APPROVED
Aug 18 2022
BOARD OF RECREATION
AND PARK COMMISSIONERS

BOARD REPORT **NO.** 22-217

DATE August 18, 2022 C.D. 14

BOARD OF RECREATION AND PARK COMMISSIONERS

SUBJECT: DEPARTMENT OF PUBLIC WORKS SIXTH STREET VIADUCT PARC IMPROVEMENT PROJECT – REPORT REGARDING PROPOSAL FOR FINAL PLANS AND SPECIFICATIONS.

AP Diaz		M. Rudnick	
H. Fujita	FUF	*C. Santo Domingo	DF
B. Jackson		N. Williams	

General Manager

Approved X Disapproved Withdrawn

RECOMMENDATION

1. Receive and file this report;

SUMMARY

The Department of Public Works' (Public Works) construction of its Sixth Street Viaduct Replacement Project required the acquisition of land underneath and immediately adjacent to the new viaduct in order to produce a roadway alignment which would meet modern public safety standards for vehicular travel. Public Works is proposing to transform this land into a public recreational space with its Sixth Street Viaduct PARC Improvements Project (Project) which spans the areas underneath and adjacent to the Viaduct from Mateo Street in the Arts District to the US-101 on-ramp in the Boyle Heights community, in Council District 14. The goal of the Project is to create new park space to promote recreation, community connectedness, culture, and the arts. Upon completion of any and all necessary construction, surveys, land dedications, and other actions as needed to construct the Project and establish the legal description of all easements, maintenance boundaries, and right of way maps; and subject to the completion of necessary ordinances, the Department of Public Works intends to transfer operation and maintenance of the Project to RAP, at which point RAP staff will return to the Board for consideration and approval of the acceptance of the transfer of the Project.

PUBLIC WORKS PROJECT SCOPE

Public Works' Project scope includes the construction of a new 12-acre park and features a performance arts plaza, two (2) soccer fields, multi-purpose fields, two (2) dog parks, a children's playground, basketball court, walking/jogging paths, adult fitness equipment, picnic areas, two (2) restroom buildings, a 870 square foot staff office area, a 577 square foot café

building at the west park, general landscaping, lighting, irrigation, and fencing. In addition, the existing and partially reconstructed Sixth Street tunnel leading from the Arts Plaza to the Los Angeles River will receive new painting and lighting. Public Works' proposal for the Project's final plans and specifications are attached as Attachment No.1 to this Report and is also on file in the Board office.

Public Works' states that community engagement for the Project at the onset was critical to developing support for the Project's thematic design elements and to the understanding of the sensitivity of the community fabric. During the Project's conceptual design phase in 2017, a total of six large community meetings were held at both the Arts District and the Boyle Heights communities. Additionally, a number of smaller focus meetings were conducted with youth groups and Boyle Heights community leaders. The large meetings were designed to elicit feedback on the priorities of park features that the community was interested in having at the park, while the smaller focus meetings provided insight on how the park can be developed with purpose and the spirit of the community.

An additional six meetings were convened in January and February 2021 during the application process for the Prop. 68 grant to provide a status of the Project and to develop the scope that would be used toward the grant funding.

The Project will be bid and awarded through the Department of Public Works. Construction will be managed by the Bureau of Engineering, Construction Management Division.

The City Engineer's estimate of the Project's construction cost is Thirty-Five Million, Five Hundred Twenty-One Thousand Dollars ($35,521,000).
Public Works states that funds are currently available from the following funds and accounts:

FUNDING SOURCE	FUND/DEPT./ACCT. NO.	AMOUNT
MICLA Fund	298/50RLDS	$3,237,148
	298/50MCON	$2,784,760
	298/50RSIX	$1,487,245
	298/50MCSS	$42,419
	298/50RCSR	$7,440,000
	298/50VLDS	$1,000,000
Prop. K Fund	TBD	$1,699,523
Leonard Hill Grant	682/50NVCC	$1,222,631
Metropolis Grant	682/50LVBC	$907,645
CRA/EBP Fund	57D/22L9AT	$704,751
	57D/22L9AN	$2,165,004
Pickle Works Fund	682/50SVEB	$4,886,068
Prop. 68 Grant	TBD	$8,500,000
Other Source of Funds	TBD FY 24-25	$4,000,000
	TOTAL:	**$40,077,194**

The Project is expected to receive ample shade since the Sixth Street Viaduct is located directly over the park. Additionally, Hargreaves Jones, the sub-consultant landscape architect, performed a shade analysis to determine the optimal areas that receive sunlight during the year in order to properly locate new trees.

The Project proposes to plant approximately 302 new shade trees. The table below lists the types of trees and the quantity:

Botanic Name	Common Name	Approximate Quantity
Angophora costata	Rose Gum	37
Arbutus 'Marina'	Marina Strawberry Tree	5
Chilopsis linearis	Desert Willow	15
Corymbia citriodora	Lemon Scented Gum	15
Corymbia papuana	Ghost Gum	23
Eucalyptus cladocalyx	Sugar Gum	10
Eucalyptus torquate	Coral Gum	14
Parkinsonia X 'Desert Museum'	Palo Verde 'Desert Museum'	5
Ficus rubiginosa	Rusty Leaf Fig	2
Jacaranda mimosifolia	Jacaranda	34
Pinus torreyana	Torrey Pine	12
Quercus agrifolia	Coast Live Oak	4
Quercus buckleyi	Texas Red Oak	30
Laurus mobilis	Bay Laurel	12
Tipuana tipu	Tipu	84

The proposed trees are estimated to provide 210,000 square feet (4.8 acres) of canopy cover at full maturity.

As noted previously, the Project includes a performance arts plaza, composed of a stage, terraced seating, and landscaping (Arts Plaza). It is proposed to be located underneath the Sixth Street Viaduct between Santa Fe Avenue and the LA River's Sixth Street tunnel. Once completed, it is contemplated that the Arts Plaza will host regular arts programming for the enjoyment of neighboring residents and Angelenos across the City.

Public Works is funding the construction of the Arts Plaza through a $1,900,000 grant from the late Leonard Hill who spent the latter part of his life developing the properties in the Arts District. The grant is administered by the Mayor's Fund of Los Angeles (MFLA) with $1,425,000 to be used for design and construction, and the remaining $475,000 intended for programming development and implementation for the Arts Plaza.

The grant agreement, which was executed by Public Works on February 22, 2017, stipulated that:

- The Arts Plaza be named the "Leonard Hill Arts Plaza" upon completion of the project with three signs to be installed with the name at the site. Subsequently, it was decided to shorten the name to "Len Hill Arts Plaza."
- The Arts Plaza be designed with adequate lighting to ensure safety of attendees.
- The Arts Plaza host regular arts programming for the enjoyment of neighboring residents and Angelenos across the City and that said programming will be managed by a programming entity as approved by the City and the MFLA, in consultation with the Leonard Hill Charitable Trust.

BOE staff initially presented its plans for the Project to the Board's Facility Repair and Maintenance Commission Task Force on May 5, 2022, during which feedback was solicited. BOE staff is now submitting for the Board's information its proposal for the Project's final plans and specifications.

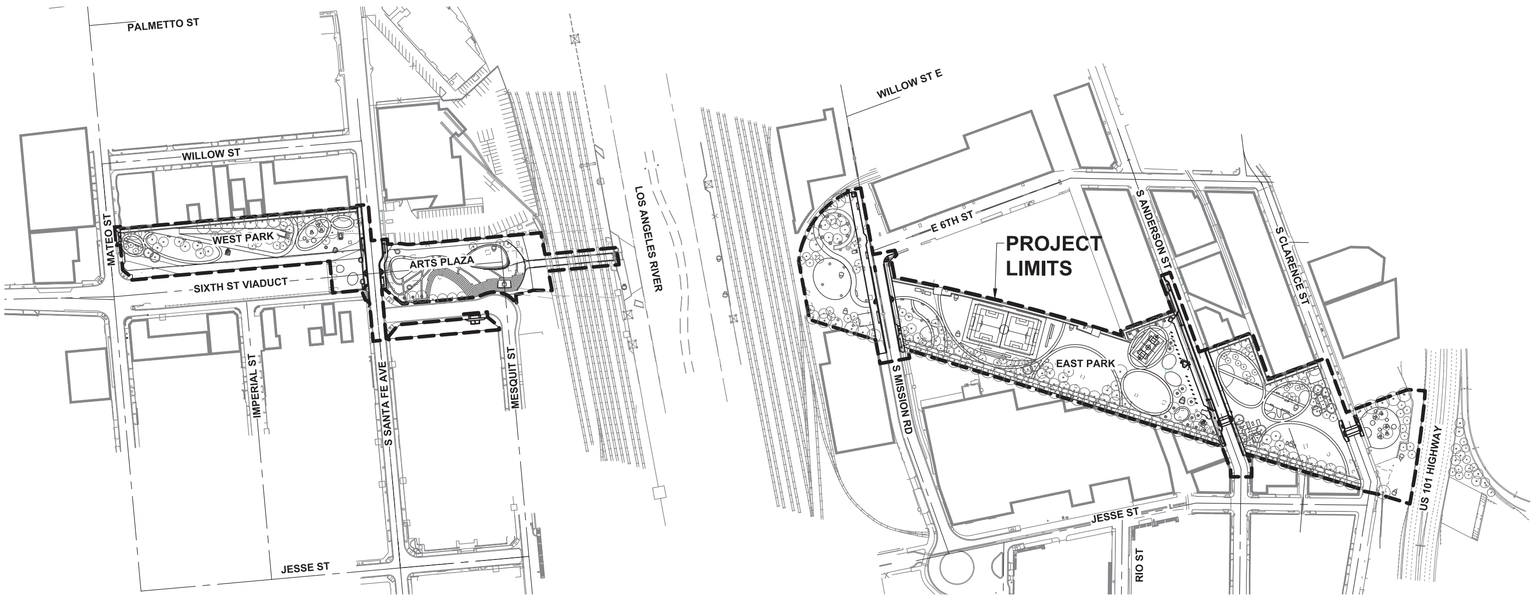
This Report was prepared by Gary Lam, Project Manager, BOE Sixth Street Viaduct Division; reviewed by Julie Sauter, BOE Deputy City Engineer; Deborah Weintraub, BOE Chief Deputy City Engineer; Richard Louie, BOE Principal Civil Engineer, Sean Phan, Department of Recreation Parks, Planning, Construction and Maintenance Branch; Darryl Ford, Superintendent, Department of Recreation Parks, Planning, Construction and Maintenance Branch

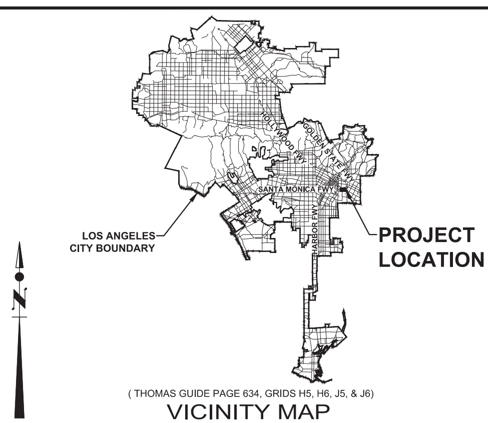
LIST OF ATTACHMENTS

Attachment No. 1 – Final Plans & Specifications

BUREAU OF ENGINEERING
DEPARTMENT OF PUBLIC WORKS
CITY OF LOS ANGELES

SIXTH STREET PARK, ARTS AND RIVER CONNECTIVITY IMPROVEMENTS (PARC)





(THOMAS GUIDE PAGE 634, GRIDS H5, H6, J5, & J6)

VICINITY MAP

NOT TO SCALE

CITY OF LOS ANGELES

SIXTH STREET VIADUCT DIVISION
SHAY DOONG, P.E. — ACTING DIVISION MANAGER
GARY LAM, P.E. — PROJECT MANAGER
NATALIE MOORE — ASSISTANT PROJECT MANAGER

BID AND AWARD: **PROJECT AWARD AND CONTROL DIVISION**
GREGG VANDERGRIFF, P.E. — DIVISION MANAGER

REAL ESTATE: **REAL ESTATE DIVISION**
URIEL JIMENEZ — DIVISION MANAGER
AUGUSTO PARCERO — SENIOR REAL ESTATE OFFICER

SURVEY: **SURVEY DIVISION**
WILLIAM KNIGHT, P.L.S. — CHIEF SURVEYOR
BOBBY RIVERA, P.L.S. — SURVEY PARTY CHIEF II

GEOTECHNICAL: **GEOTECHNICAL ENGINEERING DIVISION**
PATRICK SCHMIDT, G.E. — DIVISION MANAGER
MICHAEL MULHERN, G.E. — ENGINEERING GEOLOGIST II

ENVIRONMENTAL: **ENVIRONMENTAL MANAGEMENT GROUP**
MARIA MARTIN — GROUP MANAGER
JAN GREEN REBSTOCK — ENVIRONMENTAL SUPERVISOR II

DESIGN CONSULTANTS

PRIME CONSULTANT: **TETRA TECH, INC.**

SUB CONSULTANTS:
HARGREAVESJONES
MICHAEL MALTZAN ARCHITECTURE
SUSTAINABLE LANDESIGN
GALVIN PRESERVATION ASSOCIATES, INC
HUSHMAND ASSOCIATES, INC.

PLANS PREPARED BY:
TETRA TECH, INC.
707 WILSHIRE BLVD, 23RD FLR.
LOS ANGELES, CA 90017
PHONE: (213) 239-8866

CITY OF LOS ANGELES — DEPARTMENT OF PUBLIC WORKS — BUREAU OF ENGINEERING

VERTICAL CONTROL: BM 12-04070, 1929 (NGVD29) • 1985 ADJUSTMENT
HORIZONTAL CONTROL: GPS; PID AE 1704, EPOCH 1991.35

SHEET TITLE: TITLE SHEET

PROJECT: SIXTH STREET PARK, ARTS AND RIVER CONNECTIVITY IMPROVEMENTS (PARC)

ADDRESS: SIXTH STREET OVER THE LOS ANGELES RIVER

WORK ORDER NO. E700235D

DRAWING NO. G-001

SHEET 1 OF 295 SHEETS

GARY LEE MOORE, P.E. ENV. SP. — CITY ENGINEER
ACCEPTED BY:
DEPUTY CITY ENGINEER / PROGRAM MANAGER — DATE
CITY ENGINEER — DATE

REGISTERED PROFESSIONAL ENGINEER — STATE OF CALIFORNIA — CIVIL — EXP: 9-30-22 — 06/27/22

NO. | REVISIONS | DATE | BY

WORK ACCEPTED | SERIAL NO. | STRUCTURE NO. | INDEX NO.

REVISION DATES (DESIGN STAGE ONLY)

THE CITY OF LOS ANGELES OR ITS OFFICERS OR AGENTS SHALL NOT BE RESPONSIBLE FOR THE ACCURACY OR COMPLETENESS OF ELECTRONIC COPIES OF THIS PLAN SHEET.

Sheet Version 3.0

BID SET - NOT FOR CONSTRUCTION

NOTICE TO CONTRACTORS

1. SPECIFICATIONS: ALL WORK SHALL CONFORM TO THE PROJECT SPECIFICATIONS. WORK NOT COVERED BY THE PROJECT SPECIFICATIONS SHALL CONFORM TO THE LATEST EDITION AND SUPPLEMENTS OF "THE STANDARD SPECIFICATIONS FOR PUBLIC WORKS CONSTRUCTION" PARTS 2 THROUGH 6 (GREEN BOOK) AND THE CORRESPONDING "ADDITIONS AND AMENDMENTS TO THE LATEST EDITION OF THE STANDARD SPECIFICATIONS FOR PUBLIC WORKS CONSTRUCTION" (BROWN BOOK). ALL SHEETS SHALL CONFORM TO THEIR RESPECTIVE PLANS AND THE PROJECT SPECIFICATION BOOK. ANY CONFLICTS SHALL BE BROUGHT TO THE CITY'S PROJECT MANAGER'S ATTENTION IMMEDIATELY.
2. NOT USED.
3. IN ADDITION TO OTHER SUBMITTALS REQUIRED BY THE OFFICE OF CONTRACT COMPLIANCE, PRIOR TO THE START OF WORK AND NO LATER THAN 10 CALENDAR DAYS AFTER ISSUANCE OF THE NOTICE TO PROCEED, THE CONTRACTOR SHALL SUBMIT TO THE ENGINEER THE LABOR COSTS BY TRADE. THESE COSTS SHALL INCLUDE ACTUAL DOCUMENTED PAYROLL COSTS INCLUDING WAGES, PAYROLL TAXES AS ESTABLISHED BY LAW (i.e. FICA, FEDERAL AND STATE UNEMPLOYMENT TAXES), FRINGE BENEFITS AS ESTABLISHED BY NEGOTIATED LABOR AGREEMENTS, AND ANY INSURANCE COSTS (SUCH AS WORKMAN'S COMPENSATION, PUBLIC LIABILITY AND PROPERTY DAMAGE INSURANCE) WHICH ARE ASSESSED AGAINST LABOR COSTS. THE CONTRACTOR SHALL ALSO SUBMIT A LIST OF ALL EQUIPMENT PLANNED FOR THIS CONTRACT AND INDICATE THE OWNERSHIP THEREOF.
4. INSPECTION: ALL WORK AND MATERIALS ARE SUBJECT TO INSPECTION PURSUANT TO SECTION 2-11 OF THE STANDARD SPECIFICATIONS. CALL (213) 485-5080 FOR INSPECTION BEFORE NOON OF THE WORKING DAY BEFORE INSPECTION IS REQUIRED.
   CONTINUOUS INSPECTIONS ARE REQUIRED FOR CONCRETE OVER 2500 PSI. CONTINUOUS INSPECTIONS BY SOILS ENGINEER ARE REQUIRED FOR EXCAVATION.
5. THE CONTRACTOR, IN CONFORMANCE WITH LOS ANGELES CITY ORDINANCE NO. 150,478 SHALL POTHOLE EXISTING SUBSURFACE INSTALLATIONS CARRYING UNSTABLE SUBSTANCES TO DETERMINE THEIR LOCATIONS AND ELEVATIONS BEFORE COMMENCING EXCAVATION.
6. UNDERGROUND SERVICE ALERT: BEFORE COMMENCING ANY EXCAVATION, THE CONTRACTOR SHALL OBTAIN AN UNDERGROUND SERVICE ALERT (USA) INQUIRY I.D. NUMBER BY CALLING (800) 227-2600. TWO WORKING DAYS SHALL BE ALLOWED AFTER THE I.D. NUMBER IS OBTAINED AND BEFORE THE CONTRACTOR STARTS THE EXCAVATION WORK SO THAT UTILITY OWNERS CAN BE NOTIFIED. IF THE UTILITY OWNER IS THE CITY OF LOS ANGELES, A CONFIRMATION NUMBER INDICATING THE CITY HAS BEEN NOTIFIED SHALL BE OBTAINED BY USA AND/OR THE CONTRACTOR FROM THE APPROPRIATE CITY DEPARTMENT. THE I.D. NUMBER TOGETHER WITH THE DATE ACQUIRED SHALL BE REPORTED TO THE BUREAU OF CONTRACT ADMINISTRATION WHEN CALLING FOR INSPECTION. I.D. NUMBERS WILL NOT BE GIVEN MORE THAN 10 DAYS BEFORE STARTING EXCAVATION WORK.
7. NOTIFICATION: AT LEAST TEN (10) DAYS BEFORE THE START OF CONSTRUCTION, THE CONTRACTOR SHALL NOTIFY, IN WRITING, ABUTTING PROPERTY OCCUPANTS OF THE PROPOSED CONSTRUCTION START DATE. A COPY OF SAID WRITTEN NOTIFICATION SHALL BE PROVIDED TO THE INSPECTOR FOR APPROVAL BEFORE THEY ARE DISTRIBUTED TO THE OCCUPANTS OF THE ABUTTING PROPERTY.
8. ADVANCE CONSTRUCTION NOTICE SIGNS: IN ADDITION TO SIGNS REQUIRED BY THE PROVISIONS OF THE WORK AREA TRAFFIC CONTROL HANDBOOK (WATCH), LATEST EDITION, AND THE CALIFORNIA MANUAL OF UNIFORM TRAFFIC CONTROL DEVICES (MUTCD), LATEST EDITION, FURNISH AND PLACE SIGNS FOR GIVING ADVANCE NOTICE TO MOTORISTS OF TRAFFIC DISRUPTION AS PART OF THIS PROJECT IN ACCORDANCE WITH STANDARD PLANS S-791-1 (EIGHT EACH). TIME AND INFORMATION TYPE CONSTRUCTION NOTICE SIGNS (EIGHT EACH) PER STANDARD PLAN S-791-1 ARE REQUIRED. THE INSPECTOR WILL DETERMINE APPROPRIATE LOCATION(S). THE TIME FOR THE TIME SIGN AND THE TELEPHONE NUMBER FOR THE INFORMATION SIGN WILL BE FURNISHED BY THE ENGINEER AT THE TIME OF CONSTRUCTION. FIVE TYPE I CREDIT SIGNS PER STANDARD PLAN S-792-0 ARE REQUIRED. THE INSPECTOR WILL DETERMINE THE APPROPRIATE LOCATION(S) FOR EACH SEQUENCE OF CONSTRUCTION AND FINAL LOCATION ONCE CONSTRUCTION IS COMPLETED.
9. THE CONTRACTOR SHALL NOT SHUT OFF WATER SERVICE AT THE CURB AT ANY TIME PER CITY OF LOS ANGELES RULES GOVERNING WATER AND ELECTRIC, RULE 16-W, SECTION A.3. SHOULD THE CONTRACTOR REQUIRE THE WATER SERVICE TO BE SHUT OFF TO THE PRIVATE PROPERTY, ARRANGEMENTS SHALL BE MADE SOLELY BY THE CONTRACTOR WITH THE PROPERTY OWNER AND THE CONTRACTOR SHALL PROVIDE THE PROPERTY OWNER WITH AT LEAST 48 HOURS PRIOR NOTICE.
10. SURVEY MONUMENT PRESERVATION IS REQUIRED AND SHALL INCLUDE SUBMITTAL OF PRE AND POST CONSTRUCTION SURVEY MONUMENT TIES TO THE ENGINEER, AS NOTED BY SECTION 2-9.3 OF THE "BROWN BOOK".
11. STRIP AND REMOVE ALL VEGETATION TO A DEPTH OF 6 INCHES AND ALL EXISTING STORMWATER MANAGEMENT RELATED ITEMS WITHIN THE PROJECT LIMITS UNLESS NOTED OTHERWISE.
12. TRAFFIC LANE REQUIREMENTS:
    THE CONTRACTOR SHALL COMPLY WITH THE LATEST VERSION OF THE WORK AREA TRAFFIC CONTROL HANDBOOK "WATCH MANUAL" ADOPTED BY THE BOARD OF PUBLIC WORKS FOR ALL TRAFFIC CONTROL AND THE CALIFORNIA MANUAL OF UNIFORM TRAFFIC CONTROL DEVICES (MUTCD), LATEST EDITION.
    AT LEAST 6 WEEKS PRIOR TO THE BEGINNING OF CONSTRUCTION WITHIN THE STREET, THE CONTRACTOR SHALL PREPARE AND SUBMIT THE TRAFFIC MITIGATION PLANS TO THE ENGINEER FOR THE LOS ANGELES DEPARTMENT OF TRANSPORTATION (LADOT) REVIEW AND APPROVAL. THE TRAFFIC MITIGATION PLANS SHALL BE PREPARED AND STAMPED BY A TRAFFIC ENGINEER LICENSED BY THE STATE OF CALIFORNIA.
13. TRAFFIC SIGNAL NOTES
    A. TRAFFIC CONTROL SHALL BE IN ACCORDANCE WITH THE LATEST EDITION OF THE *WORK AREA TRAFFIC CONTROL HANDBOOK* (WATCH) ADOPTED BY THE BOARD OF PUBLIC WORKS OF THE CITY OF LOS ANGELES AND THE CALIFORNIA MANUAL OF UNIFORM TRAFFIC CONTROL DEVICES (MUTCD), LATEST EDITION.
    B. THE CONTRACTOR SHALL MAINTAIN ALL EXISTING LADOT TRAFFIC SIGNS. CONTACT THE LADOT SIGN FOREMAN, AT TELEPHONE (323-957-6843), THREE (3) WORKING DAYS PRIOR TO CONSTRUCTION FOR REMOVAL OR REINSTALLATION OF SIGNS. ANY SIGNS LOST OR DAMAGED BY THE CONTRACTOR SHALL BE REPLACED AT CONTRACTOR'S EXPENSE.
    C. IN THE EVENT THAT CONDUIT OR TRAFFIC SIGNAL PULL BOXES INTERFERE WITH PROPOSED CONSTRUCTION, THE CONTRACTOR WILL BE AUTHORIZED BY THE PROJECT ENGINEER TO RELOCATE OR REPLACE THE CONDUIT AND/OR THE PULL BOXES AND WILL BE PAID IN ACCORDANCE WITH SECTION 01254 - CHANGE ORDERS OF THE GENERAL REQUIREMENTS. ALL WORK MUST BE PERFORMED BY A LICENSED CONTRACTOR EXPERIENCED IN TRAFFIC SIGNAL CONSTRUCTION.
    D. IN THE EVENT OF DAMAGE TO EXISTING TRAFFIC SIGNAL EQUIPMENT, CONDUIT AND DETECTOR LOOPS, THE CONTRACTOR SHALL IMMEDIATELY NOTIFY THE LADOT TRAFFIC SIGNAL SUPERINTENDENT, TELEPHONE (213) 972-4990, AND SHALL BE RESPONSIBLE FOR REPAIR OR REPLACEMENT AT NO COST TO THE CITY. REPAIRED OR REPLACED EQUIPMENT/CONDUIT SHALL BE INSPECTED BY THE TRAFFIC SIGNAL INSPECTOR BEFORE SIGNAL CIRCUITS ARE ENERGIZED.
    E. IF THE METHOD OF CONSTRUCTION INTERFERES WITH ADEQUATE VISIBILITY OF THE VEHICLE AND/OR THE PEDESTRIAN SIGNAL HEADS AT THEIR EXISTING LOCATIONS, THE CONTRACTOR SHALL PREPARE TEMPORARY AND RESTORATION SIGNAL PLANS IN SUPPORT OF THE TRAFFIC CONTROL PLAN. NECESSARY SIGNAL PLANS SHALL BE PREPARED BY A REGISTERED CIVIL/TRAFFIC ENGINEER AND SUBMITTED TO LADOT FOR APPROVAL PRIOR TO START OF CONSTRUCTION. THE CONTRACTOR SHALL BE RESPONSIBLE FOR REMOVAL AND INSTALLATION OF TEMPORARY, AS WELL AS PERMANENT TRAFFIC SIGNAL EQUIPMENT AND THE ENTIRE COST THEREOF SHALL BE BORNE BY THE CONTRACTOR.
14. TRAFFIC CONTROL NOTES
    A. TRAFFIC LANE REQUIREMENTS:
       MAINTAIN ONE LANE OF TRAFFIC IN EACH DIRECTION AT ALL TIMES; OTHERWISE, MAINTAIN ONE LANE OF TRAFFIC WITH FLAG CONTROL FROM 9AM TO 4PM WEEKDAYS. MAINTAIN LOCAL AND EMERGENCY ACCESS AT ALL TIMES. FOLLOW THE LATEST EDITION OF THE "WATCH" MANUAL AND THE CALIFORNIA MANUAL OF UNIFORM TRAFFIC CONTROL DEVICES (MUTCD), LATEST EDITION. IN THE EVENT THAT THE ROAD NEEDS TO BE CLOSED , TRAFFIC MITIGATION PLANS SHALL BE PREPARED IN ACCORDANCE WITH NOTE 12 ON THIS SHEET.
       THE CONTRACTOR SHALL NOTIFY LADOT'S SPECIAL TRAFFIC CONTROL DIVISION AT (213) 485-2298, FOUR (4) WORK DAYS PRIOR TO THE START OF CONSTRUCTION FOR THE POSTING OF TEMPORARY "TOW AWAY NO STOPPING" SIGNS AS NEEDED.
    B. TRAFFIC CONTROL DEVICE MAINTENANCE:
       THE CONTRACTOR SHALL MAKE ARRANGEMENTS FOR THE RESTORATION OF ALL OBLITERATED STRIPING AND PAVEMENT MARKINGS AND FOR THE REINSTALLATION OF ALL OTHER MISSING OR DAMAGED TRAFFIC CONTROL DEVICES (I.E., SIGNS, CURB MARKINGS, STAMPED CROSSWALKS, PARKING METERS, ETC.). WHEN NECESSARY, ADDITIONAL RELATED TRAFFIC CONTROL DEVICES, INCLUDING, BUT NOT LIMITED TO, DETOUR/CONSTRUCTION WORKSITE TRAFFIC CONTROL DEVICES SHALL BE INSTALLED IN SUPPORT OF THE PROJECT. THE CONTRACTOR WILL BE REQUIRED TO PHYSICALLY INSTALL THESE TRAFFIC CONTROL DEVICES TO THE FULL SATISFACTION OF LADOT, BUT THE CITY MAY CHOOSE TO INSTALL NONE, SOME, OR ALL OF THE SAID TRAFFIC CONTROL DEVICES. THE ENTIRE COST THEREOF SHALL BE BORNE BY THE CONTRACTOR (UNLESS PAYMENT BY THE CITY IS PRE-APPROVED BY A CITY AGENCY). ALL STRIPING AND PAVEMENT MARKINGS SHALL BE INSTALLED UTILIZING THERMOPLASTIC MATERIALS PER LADOT SPECIFICATIONS. THE CONTRACTOR SHALL CONTACT LADOT'S WESTERN DISTRICT OFFICE AT (310) 575-8138 FIVE (5) MAINTENANCE.
       FOR QUESTIONS REGARDING TRAFFIC LANE REQUIREMENTS, PLEASE CALL THE CENTRAL DISTRICT OFFICE, LADOT AT (213) 972-4990.
15. STREET IMPROVEMENTS:
    A. PAVING OF ROADWAY AREAS SHALL BE WITHHELD UNTIL THE STORM DRAIN WORK HAS BEEN APPROVED BY UNDERGROUND FINAL INSPECTION.
    B. DRIVEWAYS SHALL BE CONSTRUCTED PER STANDARD PLAN S-440-4, UNLESS OTHERWISE SHOWN ON THE PLAN.
    C. ALL DRIVEWAYS SHALL BE CONSTRUCTED ON BASE MATERIAL OF THE SAME KIND AND THICKNESS AS THAT PLACED UNDER THE CONCRETE SIDEWALK.
    D. CURB RAMPS SHALL BE CONSTRUCTED PER STANDARD PLAN S-442-6, AS SHOWN ON THE PLAN.
    E. CONSTRUCTION STAKES FOR CURB AND LONGITUDINAL GUTTER, WITH GRADE LESS THAN 0.50 %, SHALL BE SET 12.5 FEET ON THE CENTER.
16. STORM WATER POLLUTION CONTROL: THE CONTRACTOR SHALL COMPLY WITH THE PROVISIONS IN SPECIFICATIONS SECTION 01571.
17. ELEVATIONS SHOWN ON THESE PLANS ARE REFERENCED FROM THE NGVD 1929 DATUM.
18. CONTRACTORS ARE REQUIRED TO EXAMINE AND JUDGE, AS THEIR OWN RESPONSIBILITY, THE LOCATION, PHYSICAL CONDITIONS, AND SURROUNDINGS OF PROPOSED WORK.
19. THE LOCATION OF THE EXISTING UTILITIES AND SUBSTRUCTURES SHOWN HEREON HAVE BEEN TAKEN FROM RECORDS. THE ENGINEER DOES NOT WARRANT THE COMPLETENESS OR CORRECTNESS OF THE LOCATIONS. IT SHALL BE THE CONTRACTOR'S RESPONSIBILITY TO LOCATE ALL UNDERGROUND FACILITIES, BEFORE COMMENCING WORK, AND PROTECT THEM FROM DAMAGE. SHOULD UTILITIES BE ENCOUNTERED THAT ARE NOT INDICATED, NOTIFY THE ENGINEER IMMEDIATELY. MARK HIGH VOLTAGE ELECTRICAL SERVICES WITH PROPER WARNING SIGNS AND BARRICADES.
20. THE CONTRACTOR SHALL BE RESPONSIBLE FOR ALL PERMITS AND INSPECTIONS REQUIRED BY SECTION 01112 OF THE SPECIFICATIONS.
21. THE CONTRACTOR SHALL BE RESPONSIBLE FOR BARRICADING ITS WORK AREA TO PREVENT VEHICLES FROM PARKING IN THE PROPOSED LINE OF OPERATIONS. ANY DAMAGE TO PARKED VEHICLES CAUSED BY THE CONSTRUCTION OPERATIONS SHALL BE THE CONTRACTOR'S LIABILITY.
22. THE LOCATIONS OF IRRIGATION PIPING, WIRING AND EQUIPMENT ARE UNKNOWN. THE CONTRACTOR SHALL MAINTAIN A TEMPORARY SYSTEM AND REPLACE ANY IRRIGATION FACILITIES DAMAGED BY CONSTRUCTION TO PRE-CONSTRUCTION CONDITIONS.
23. ANY STREET, CURB, GUTTER, DRAIN OR PAVED AREA WHICH ARE DAMAGED OR REMOVED DURING CONSTRUCTION OF THIS PROJECT SHALL BE RETURNED TO ITS ORIGINAL CONDITION.
24. THE DRAFT GEOTECHNICAL EVALUATION FOR THE PROJECT PREPARED BY HUSHMAND ASSOCIATES, INC. (PROJECT NO. LAC-17-001; DATED JANUARY 2018) AND THE SUPPLEMENTAL UPDATE OF THE DRAFT GEOTECHNICAL REPORT PREPARED BY TETRA TECH, INC. (PROJECT NO. TET 21-203E; DATED AUGUST 2021) HAVE BEEN INCORPORATED INTO THE PROJECT PLANS & SPECIFICATIONS AS GEOTECHNICAL DATA REPORTS. THE CONTRACTOR SHALL COMPLY WITH THE RECOMMENDATIONS PRESENTED IN THE REPORTS.
25. PROVIDE FIRE DEPARTMENT ACCESS DURING CONSTRUCTION - THERE SHALL BE NO BLOCKAGE OF EXISTING HYDRANTS. IF EXISTING HYDRANTS ARE TO BE REMOVED OR ARE INACCESSIBLE CHECK WITH FIRE DEPARTMENT FOR INTERIM REQUIREMENTS.
26. CONTRACTOR SHALL PROVIDE ALL REQUIRED NOISE AND VIBRATION ABATEMENT TO MEET ALL STATE AND LOCAL ORDINANCES AND CODES.
27. ALL EXCAVATIONS SHALL BE KEPT FREE OF WATER. DEWATERING EFFLUENT SHALL BE DISCHARGED TO THE CITY SEWER SYSTEM OR THE ADJACENT STORM DRAIN. CONTRACTOR SHALL OBTAIN A PERMIT FOR THE DISCHARGE FROM THE CITY OF LOS ANGELES, BUREAU OF SANITATION (BOS) OR THE RWQCB AS NECESSARY. WATER SHALL BE TREATED PER BOS (OR RWQCB). REQUIREMENTS PRIOR TO DISCHARGING TO THE SEWER OR STORM DRAIN. DISCHARGE FLOWS TO THE SEWER SYSTEM MAY BE RESTRICTED DUE TO THE LIMITED CAPACITY.
28. SEWER CONSTRUCTION NOTES: ALL SEWER MAINTENANCE HOLES SHOWN HEREON TO BE ADJUSTED TO GRADE SHALL BE ADJUSTED TO FINISHED GRADE IN ACCORDANCE WITH STANDARD PLAN S-137-1.
29. STORM DRAIN CONSTRUCTION NOTES:
    A. ALL STORM DRAIN MAINTENANCE HOLES SHOWN HEREON TO BE ADJUSTED TO GRADE SHALL BE ADJUSTED TO FINISHED GRADE IN ACCORDANCE WITH STANDARD PLAN S-137-1.
    B. PROTECTION BARS SHALL BE INSTALLED ON ALL SIDE OPENING CATCH BASINS UNLESS INDICATED OTHERWISE ON PLAN.
    C. PER BUREAU OF ENGINEERING SPECIAL ORDER NO. 007-0701, DATED JULY 16, 2001, THE LATEST APWA STANDARD PLANS FOR PUBLIC WORKS CONSTRUCTION - SOUTHERN CALIFORNIA CHAPTER, SHALL BE UTILIZED IN LIEU OF OLDER/RETIRED BUREAU OF ENGINEERING STANDARD PLANS FOR STORM DRAIN CONSTRUCTION.
    D. TRENCH BACKFILL FOR ALL STORM DRAINS CONSTRUCTED IN DRAINAGE EASEMENTS SHALL BE MECHANICALLY COMPACTED TO A RELATIVE DENSITY OF 90%.
30. NOT USED.
31. REMOVALS:
    A. REMOVE ALL EXISTING IMPROVEMENTS THAT INTERFERE WITH THE CONSTRUCTION OF THIS PROJECT.
    B. WHERE EXISTING UTILITIES ARE TO BE REMOVED OR RELOCATED BY OTHERS, CONTRACTOR SHALL BE RESPONSIBLE FOR ALL COORDINATION WITH THE UTILITY OWNER..
32. CASE 5 BEDDING PER STANDARD PLAN S-251-1 SHALL BE PLACED IN ALL TRENCHES, EXCEPT WHERE INDICATED IN SCHEDULE OF REPAIRS.
33. SHORING SHALL COMPLY WITH THE CALIFORNIA ADMINISTRATIVE CODE, TITLE 8; CONSTRUCTION SAFETY ORDERS, "INJURY AND ILLNESS PREVENTION - SAFETY MEASURES" OF THE GENERAL CONDITIONS AND "EXCAVATION SHORING, FORMS, & FALSE WORK" OF THE GENERAL REQUIREMENTS. SHORING PLANS SHALL BE SUBMITTED TO THE PROJECT ENGINEER FOR REVIEW AND APPROVAL. SHORING PLANS SHALL BE DESIGNED IN ACCORDANCE WITH RECOMMENDATIONS OF THE PROJECT GEOTECHNICAL ENGINEERING REPORT.
34. FOR TRENCHES OR EXCAVATIONS 5 FEET OR MORE IN DEPTH INTO WHICH A PERSON IS REQUIRED TO DESCEND, THE CONTRACTOR SHALL OBTAIN NECESSARY PERMITS FROM THE STATE OF CALIFORNIA DIVISION OF INDUSTRIAL SAFETY PRIOR TO STARTING WORK.
35. THE CONTRACTOR SHALL PROTECT ALL EXISTING UTILITIES AND SUPPORT WATER CONDUITS AT TRENCH CROSSINGS IN ACCORDANCE WITH DEPARTMENT OF WATER AND POWER STANDARD DRAWINGS B1453-1A, A3615-A, A3716, AND A9219. THE CONTRACTOR SHALL SUPPORT POWER CONDUITS IN ACCORDANCE WITH DEPARTMENT OF WATER AND POWER STANDARD DRAWINGS 1-222 AND 1-224.
36. LAY DOWN AREA:
    A. ALL REPAIRS TO CONSTRUCTION LAYDOWN AREAS AND TEMPORARY IMPROVEMENTS SHALL BE INSPECTED AND APPROVED BY THE INSPECTOR AND/OR AN AUTHORIZED REPRESENTATIVE OF THE PROPERTY OWNER PER REQUEST.
    B. THE CONTRACTOR SHALL REMOVE, RE-GRADE AND, WHEN NECESSARY, BACKFILL TO RESTORE THE CONSTRUCTION LAYDOWN ACCESS AND TEMPORARY IMPROVEMENTS TO ITS ORIGINAL/FORMER CONDITION AT THE COMPLETION OF THE WORK.
    C. THE CONTRACTOR SHALL BACKFILL EXCAVATED AREAS WITH ENGINEERED FILL UP TO THE ORIGINAL GRADE, UNLESS OTHERWISE SPECIFIED OR INDICATED ON THESE PLANS. BACKFILL PIPE TRENCH ACCESSES ONLY AFTER PIPING HAS BEEN INSPECTED.
    D. THE LAYDOWN AREA MAY BE MOVED THROUGHOUT CONSTRUCTION TO FACILITATE CONSTRUCTION AT NO ADDITIONAL COST TO THE CITY.
37. GRADING NOTES
    A. ALL GRADING SLOPES SHALL BE PLANTED AND SPRINKLERED PER THE PLANS AND SPECIFICATIONS.
    B. STANDARD 12 INCH HIGH BERM IS REQUIRED AT TOP OF ALL GRADED SLOPES.
    C. NO FILL TO BE PLACED UNTIL THE INSPECTOR HAS INSPECTED AND APPROVED THE BOTTOM EXCAVATION.
    D. MAN-MADE FILL SHALL BE COMPACTED TO A MINIMUM RELATIVE COMPACTION OF 90% MAXIMUM DRY DENSITY WITHIN 40 FEET BELOW FINISH GRADE AND 93% OF MAXIMUM DRY DENSITY DEEPER THAN 40 FEET BELOW FINISH GRADE, UNLESS A LOWER RELATIVE COMPACTION (NOT LESS THAN 90% OF MAXIMUM DRY DENSITY) IS JUSTIFIED BY THE SOILS ENGINEER, UNLESS A HIGHER RELATIVE COMPACTION PERCENTAGE IS NOTED ELSEWHERE IN THE CONTRACT DOCUMENTS.
    E. TEMPORARY EROSION CONTROL TO BE INSTALLED BETWEEN OCTOBER 1 AND APRIL 15. OBTAIN INSPECTOR'S AND DEPARTMENT OF PUBLIC WORKS APPROVAL OF PROPOSED PROCEDURES.
    F. CONTRACTOR SHALL COMPLY WITH THE GRADING REQUIREMENTS IN THE PROJECT SPECIFICATIONS.
38. CONTINUOUS INSPECTION BY THE SOILS ENGINEER/GEOLOGIST IS REQUIRED FOR REMOVAL AND RECOMPACTION. IT IS ALSO REQUIRED FOR THE EXCAVATION FOR SHORING.
39. THE CONSTRUCTION SHALL NOT RESTRICT A FIVE-FOOT CLEAR AND UNOBSTRUCTED ACCESS TO ANY WATER OR POWER DISTRIBUTION FACILITIES (POWER POLES, PULL-BOXES, TRANSFORMERS, VAULTS, PUMPS, VALVES, METERS, APPURTENANCES, ETC.) OR TO THE LOCATION OF THE HOOKUP. THE CONSTRUCTION SHALL NOT BE WITHIN TEN FEET OF ANY POWER LINES-WHETHER OR NOT THEY ARE LOCATED ON THE PROPERTY. FAILURE TO COMPLY MAY CAUSE CONSTRUCTION DELAYS AND/OR ADDITIONAL EXPENSES.
40. RETAINING WALLS LOCATED CLOSER TO THE PROPERTY LINE THAN THE HEIGHT OF THE WALL SHALL BE BACKFILLED NOT LATER THAN 10 DAYS AFTER CONSTRUCTION OF THE WALL AND NECESSARY STRUCTURAL SUPPORTING MEMBERS UNLESS RECOMMENDED OTHERWISE BY RESPONSIBLE ENGINEER.
41. PROVIDE ACCESS TO ADJOINING PROPERTIES AT ALL TIMES THROUGH THE USE OF PLATES OR TEMPORARY RAMPS.
42. COMPLY WITH NOTIFICATION OF ADJOINING PROPERTY BY GIVING A 30-DAY WRITTEN NOTICE (BY CERTIFIED MAIL AND RETURN RECEIPT) PER LADBS P/BC 2014-060 TO ADJACENT PROPERTY OWNERS, OF INTENT TO EXCAVATE WHERE EXCAVATION IS DEEPER THAN THE FOUNDATION OF ADJOINING BUILDING OR LOCATION CLOSER TO PROPERTY LINE THAN THE DEPTH OF EXCAVATION.

PROJECT UTILITY AGENCIES

AT&T CALIFORNIA
AT&T DISTRIBUTION
AT&T TCA
AT&T TRANSMISSION
CHEVRON
CITY OF LOS ANGELES
CROWN CASTLE
EXXON MOBIL
KINDER MORGAN ENERGY PARTNERS
LOS ANGELES COUNTY FLOOD CONTROL DISTRICT
LOS ANGELES DEPARTMENT OF WATER AND POWER
MCI (VERIZON BUSINESS)
LOS ANGELES COUNTY METRO TRANSIT AUTHORITY
MOBIL OIL
SC GAS DISTRIBUTION
SC GAS TRANSMISSION
SHELL OIL
SPECTRUM
SUNESYS (CROWN CASTLE)
TIME WARNER CABLE
T-MOBILE
TORRANCE LOGISTICS CO/PBF ENERGY
XO COMMUNICATIONS

PLANS PREPARED BY: TETRA TECH, INC.
707 WILSHIRE BLVD, 23RD FLR.
LOS ANGELES, CA 90017
PHONE: (213) 239-8866

CITY OF LOS ANGELES — DEPARTMENT OF PUBLIC WORKS — BUREAU OF ENGINEERING

VERT. CONTROL: BM 12-04070, 1929 (NGVD29) - 1985 ADJUSTMENT
HORIZ. CONTROL: GPS; PID AE 1704, EPOCH 1991.35

SHEET TITLE: NOTICE TO CONTRACTORS SHEET 1
PROJECT: SIXTH STREET PARK, ARTS AND RIVER CONNECTIVITY IMPROVEMENTS (PARC)
ADDRESS: SIXTH STREET OVER THE LOS ANGELES RIVER

GARY LEE MOORE, P.E., ENV SP — CITY ENGINEER
DESIGN GROUP
ENGINEER: JUSTIN SMITH — LIC. NO. C-85736 — DATE: 07/11/22
DESIGNED BY: JUSTIN SMITH
DRAWN BY: DAVID LOPEZ
CHECKED BY: NATE SCHREINER
APPROVED BY: JASON L. FUSSEL

THIS PLAN WAS ELECTRONICALLY SIGNED AND STAMPED.
REGISTERED PROFESSIONAL ENGINEER — JUSTIN T. SMITH — No. 85736 — EXP: 9-30-22 — CIVIL — STATE OF CALIFORNIA

NO. | REVISIONS: | DATE: | BY:
INDEX NO.
BUILDING NO.
ENGINEERING — CITY OF LOS ANGELES

WORK ORDER NO. E700235D
FILE NO. --
DRAWING NO. G-002
SHEET 2 OF 295 SHEETS

BID SET - NOT FOR CONSTRUCTION

NOTES FOR WORK NEAR CITY OF LOS ANGELES SEWERS

43. ALL EXISTING SEWERS, HOUSE CONNECTION SEWERS AND STORM DRAINS THAT CROSS THE PROPOSED SEWER TRENCH SHALL BE SUPPORTED IN ACCORDANCE WITH STANDARD PLAN S-253-0. THE CONTRACTOR SHALL SUBMIT CALCULATIONS AND DRAWINGS OF SUPPORT FOR LARGE UTILITIES AND STRUCTURES FOR APPROVAL BY THE ENGINEER.
44. TRENCH BACKFILL AND COMPACTION:
    TRENCH BACKFILL FOR THIS PROJECT SHALL BE MECHANICALLY COMPACTED TO A MINIMUM RELATIVE COMPACTION OF 90 PERCENT. JETTING OR FLOODING IS PROHIBITED.
45. CLOSED CIRCUIT TELEVISION (CCTV) INSPECTION REQUIREMENT:
    A. THE CONTRACTOR SHALL BE RESPONSIBLE FOR WORKING WITH THE PROJECT ENGINEER TO OBTAIN NECESSARY PERMITS AND PROVIDING A CCTV INSPECTION. THE CONTRACTOR SHALL RECORD THE INSPECTION USING DIGITAL VIDEO DISC (DVD) PER BROWN BOOK SECTION 500-1.3. THE CCTV SHALL BE PERFORMED BY A BONDED SEWER CONTRACTOR, IN THE PRESENCE OF BUREAU OF CONTRACT ADMINISTRATION PERSONNEL.
    B. PRIOR TO CCTVING, THE CONTRACTOR SHALL COMPLY WITH ALL REQUIREMENTS STIPULATED IN THE PRE/POST CCTV CHECKLIST (SEWER/STORM), AND NOTIFY THE BUREAU OF SANITATION CONTACT PERSONNEL LISTED ON THE NOTIFICATION ROSTER OF THE REQUIRED SEWAGE SPILL PREVENTION AND RESPONSE REQUIREMENTS AND NOTIFY APPROPRIATE INSPECTION OFFICE BEFORE NOON ON WORKDAY BEFORE INSPECTION IS REQUIRED AT: (213) 485-5080 OR HTTPS://BCA.LACITY.ORG/DISPATCH.
    C. THE CCTV SHALL BE CONDUCTED AT TWO (2) CONSTRUCTION STAGES : PRIOR TO START OF CONSTRUCTION, AFTER THE COMPLETION OF THE PROJECT. AT EACH STAGE THE DVD AND RECORD LOG SHALL BE SUBMITTED TO THE CITY OF LOS ANGELES FOR REVIEW AND CONFIRMATION THAT NO DAMAGE HAS OCCURRED TO THE SEWERS, AND TO OBTAIN LASAN APPROVAL TO CONTINUE WITH THE NEXT CONSTRUCTION OPERATION.
    D. VIDEO INSPECTION SHALL COVER THE ENTIRE LENGTH OF THE SEWER WITHIN THE PROJECT LIMIT OR REQUIRED AND SHALL BE DONE IN ACCORDANCE WITH THE LATEST EDITION OF CITY OF LOS ANGELES BROWN BOOK, SECTION 500.
    E. THE CONTRACTOR SHALL COMPLETE AND SUBMIT THE PRE/POST CCTV CHECKLIST WITH THE CCTV PACKAGE TO THE PROJECT ENGINEER FOR LASAN APPROVAL.
    F. THE CCTV PACKAGE INCLUDES THREE (3) DVDS, THREE (3) RECORD LOGS, THE CCTV PERMIT WITH INSPECTOR'S NAME AND PHONE NUMBER, DESIGN PLANS, AND RECORD OF EASEMENT ACKNOWLEDGEMENT, IF APPLICABLE. SUBMITTED DVDS AND RECORD LOGS SHALL BECOME A PROPERTY OF THE CITY. THE PROJECT ENGINEER WILL FORWARD THE COMPLETED CCTV PACKAGE TO THE CLEAN WATER COLLECTION DIVISION AT SAN.CWREVIEW@LACITY.ORG.
    G. ANY DAMAGE REVIEWED IN THE CCTV TO THE SEWERS RESULTING FROM CONSTRUCTION ACTIVITIES SHALL BE PROMPTLY REPAIRED BY THE CONTRACTOR/DEVELOPER AT THEIR COST AND TO THE SATISFACTION OF THE CITY OF LOS ANGELES, DEPARTMENT OF PUBLIC WORK, BUREAU OF ENGINEERING, WASTEWATER CONVEYANCE ENGINEERING DIVISION AND STRUCTURAL ENGINEERING DIVISION AND THE BUREAU OF SANITATION. THE DECISION OF THE AFOREMENTIONED DEPARTMENT CONCERNING THE EXTENT OF DAMAGE, AS WELL AS THE REQUIRED REPAIR METHODOLOGY IS FINAL.
    H. CCTV FOR THIS PROJECT IS REQUIRED FOR:

U/S MH NO.	D/S MH NO.	STREET	PIPE LENGTH (FT)
515-09-139	515-09-135	EASE N/O WHITTIER BLVD	343
515-09-145	515-09-219	MISSION RD	384
515-09-134	515-09-142	MISSION RD	312
515-09-106	515-09-109	6TH ST	300
515-09-178	515-09-108	6TH ST	285
515-09-151	515-09-178	6TH ST	96.8
515-09-125	515-09-136	ANDERSON ST	362
515-09-136	515-13-013	ANDERSON ST	363
515-09-138	515-09-141	CLARENCE ST	254
515-09-141	515-13-014	CLARENCE ST	255

46. SPILL PREVENTION AND EMERGENCY RESPONSE PLAN:
    A. THE CONTRACTOR SHALL OBSERVE AND COMPLY WITH THE CITY'S POLICY OF "ZERO SEWER SPILLS" ADOPTED BY THE BOARD OF PUBLIC WORKS ON JANUARY 10, 2011, AND SHALL BE IN FULL CHARGE AND BE RESPONSIBLE FOR THE JOBSITE AND THE CONSTRUCTION WORK OF THIS CONTRACT. THE ZERO SEWER SPILLS POLICY CAN BE FOUND AT HTTPS://BOE.LACITY.ORG/DOCS/DPW/AGENDAS/2011/201101/20110110/BCA/20110110_AG_MO_BCA_BOE_BOS.PDF.
    B. THE CONTRACTOR SHALL OBSERVE AND COMPLY WITH ALL FEDERAL, STATE, AND LOCAL LAWS, ORDINANCES, CODES, AND REGULATIONS WHICH IN ANY MANNER AFFECT THE CONDUCT OF THE WORK, SPECIFICALLY AS IT RELATES TO SEWAGE SPILLS.
    C. THE CONTRACTOR SHALL BE FULLY RESPONSIBLE FOR PREVENTING SEWAGE SPILLAGE, CONTAINING ANY SEWAGE SPILLAGE, RECOVERY AND LEGAL DISPOSAL OF ANY SPILLED SEWAGE, ANY AND ALL FINES, PENALTIES, CLAIMS AND LIABILITY ARISING FROM NEGLIGENTLY CAUSING A SEWAGE SPILLAGE AND ANY VIOLATION OF ANY LAW, ORDINANCE, CODE, ORDER, OR REGULATION AS A RESULT OF THE SEWAGE SPILLAGE.
    D. PRIOR TO THE START OF CONSTRUCTION THE CONTRACTOR SHALL DEVELOP AND SUBMIT A WRITTEN SPILL RESPONSE PLAN IN ACCORDANCE WITH THE BROWN BOOK SECTION 7-8.5.3, TO THE CITY FOR REVIEW AND APPROVAL BY . NO CONSTRUCTION ACTIVITIES SHALL BE STARTED WITHOUT THE APPROVAL OF THE SUBMITTAL.
    E. THE CONTRACTOR SHALL BE RESPONSIBLE FOR RESOLVING ANY SEWAGE SPILLS CAUSED BY THE CONSTRUCTION, WHETHER THE SPILLS OCCUR ON OR OFF THE PROJECT SITE.
    F. THE CONTRACTOR SHALL SUBMIT THE SPILL RESPONSE PLAN TO THE PROJECT ENGINEER FOR LASAN APPROVAL.
    G. IN CASE OF A SEWAGE SPILL, THE CONTRACTOR SHALL, WITHOUT INSTRUCTIONS FROM THE CITY, ACT IMMEDIATELY TO CONTROL THE SPILL AND TAKE ALL APPROPRIATE STEPS TO CONTAIN IT IN ACCORDANCE WITH THE SPILL RESPONSE PLAN. THE CONTRACTOR SHALL IMMEDIATELY NOTIFY THE CITY REPRESENTATIVES OF THE SPILL AND ALL ACTIONS TAKEN. THE CONTRACTOR SHALL, WITHIN THREE WORKING DAYS FROM THE OCCURRENCE OF THE SPILL, SUBMIT TO THE ENGINEER A WRITTEN CONFIRMATION REPORT DESCRIBING THE FOLLOWING INFORMATION RELATED TO THE SPILL
        1. THE LOCATION ON A "THOMAS GUIDE MAP."
        2. THE NATURE AND VOLUME OF THE SPILL.
        3. THE DATE AND TIME OF THE SPILL.
        4. THE DURATION OF THE SPILL.
        5. THE CAUSE OF THE SPILL.
        6. THE TYPE OF REMEDIAL AND/OR CLEAN UP MEASURES TAKEN AND THE DATE AND TIME OF IMPLEMENTATION.
        7. THE CORRECTIVE AND/OR PREVENTATIVE ACTION TAKEN TO ELIMINATE THE POSSIBILITY OF A RECURRENCE.
        8. THE WATER BODY AFFECTED.
        9. THE RESULTS OF ANY NECESSARY MONITORING.
47. SEWER BYPASS AND PUMPING PLAN:
    A. THE CONTRACTOR IS ADVISED THAT ALL REPAIRS ARE TO LIVE SEWERS. THE CONTRACTOR SHALL PROVIDE TEMPORARY MEANS TO MAINTAIN THE SEWAGE FLOW IN THE EXISTING SYSTEM AS REQUIRED TO COMPLETE THE NECESSARY CONSTRUCTION. THE CONSTRUCTION SHALL PREPARE AND SUBMIT A DETAILED BYPASS PLAN TO THE CITY FOR REVIEW AND APPROVAL BY LASAN PRIOR TO THE INSTALLATION OF THE BYPASS PLAN. BYPASS PLANS ARE REQUIRED FOR ANY OPEN CUT INSTALLATION CROSSING UNDER PRIMARY (>15") SEWERS, UNDERMINING THE BEDDING OR EXPOSING THE SEWER.
    B. UNLESS OTHERWISE INDICATED IN THIS PLAN THE BYPASS PLAN SHALL BE IN ACCORDANCE WITH THE LATEST BROWN BOOK, SECTIONS 7-8.5.2, 7-8.5.3, AND 306-6.1.
48. PLACING, SPREADING AND COMPACTING FILL MATERIAL: SPECIAL PRECAUTIONS AND PROTECTION SHALL BE CONSIDERED, WHEN WORKING IN THE IMMEDIATE AREA OVER AND AROUND EXISTING NORTH OUTFALL (NOS) AND NORTHEAST INTERCEPTOR SEWERS (NEIS). NO BACKFILL AND RECOMPACTION IN THAT AREA SHALL NOT BE DONE WITHOUT THE APPROVAL OF THE CITY SOILS ENGINEER. NO HEAVY MACHINERY, SPIKE ROLLERS OR HEAVY COMPACTORS SHALL BE USED FOR BACKFILL AND COMPACTION OPERATIONS OVER THE 30 FEET MINIMUM STRIP (15 FEET EACH SIDE OF THE CENTER LINE OF NOS), AND HEAVY EQUIPMENT CAN BE PERMITTED OVER THE SEWER ONLY IF THE CONDUIT IS EXCAVATED, EXPOSED AND ENCASED IN CONCRETE.
49. FOR ANY CONSTRUCTION OVER THE NOS OR NEIS THERE SHALL BE NO LOADING, VIBRATION OR SETTLEMENT/HEAVE (GREATER THAN 0.5 INCHES) TO THE NOS OR NEIS. NO SHORING PILES SHALL BE DRIVEN OR BY VIBRATORY METHODS UNLESS APPROVED BY THE PROJECT ENGINEER. ALL DRILLED PILES SHALL BE AT LEAST 5 FEET CLEAR EDGE TO EDGE FROM THE NOS MAINLINE OR STRUCTURES.
50. SEWER WORK:
    ALL SEWER WORK SHALL BE DONE BY AN APPROVED SEWER BONDED CONTRACTOR. A LIST OF APPROVED CONTRACTORS CAN BE FOUND AT HTTP://ENGPERMITS.LACITY.ORG/SPERMITS/.
51. APPROVED SEWER PRODUCTS:
    ALL SEWER PRODUCTS USED WITHIN THE CITY OF LOS ANGELES, PRIMARY AND SECONDARY SEWER SYSTEMS, SHALL BE FROM THE APPROVED PRODUCTS FOUND AT HTTP://BOE.LACITY.ORG/APM/.
52. CITY OF LOS ANGELES DEPARTMENT OF PUBLIC WORKS NOTIFICATION THE CONTRACTOR SHALL NOTIFY THE DEPARTMENT OF PUBLIC WORKS CONTACTS LISTED IN THE NOTIFICATION ROSTER LISTS BY PHONE AND EMAIL TEN (10) WORKING DAYS PRIOR TO START OF ANY WORK IN THE VICINITY OF THE CENTRAL OUTFALL SEWER; INCLUDING CLEANING, CONSTRUCTION, AND CCTVING. THE CONTRACTOR SHALL IMMEDIATELY NOTIFY THE DEPARTMENT OF PUBLIC WORKS IN THE EVENT OF ANY SEWAGE SPILL OR SEWER EMERGENCY.

BOS NOTIFICATION ROSTER:

CLEAN WATER NORTH CONVEYANCE DIVISION (CWNCD)			
KWASI BERKO	ACTING DIVISION MANAGER	OFFICE: (323) 342-6004, CELL: (213) 675-0470	KWASI.BERKO@LACITY.ORG
GERALD WATSON	MANAGER II	OFFICE: (323) 342-6003, CELL: (213) 422-7780	GERALD.WATSON@LACITY.ORG
VINCENT TAN	ACT MANAGER II	OFFICE: (323) 342-6040 CELL: (213) 814-7182	VINCENT.TAN@LACITY.ORG
CLEAN WATER SOUTH CONVEYANCE DIVISION (CWSCD)			
MARK FERNANDEZ	ACTING DIVISION MANAGER	(213) 280-2018	MARK.FERNANDEZ@LACITY.ORG
VENICE PUMP PLANT	24 HOUR EMERGENCY	(310) 823-5507, (310) 822-0777	
CITY WIDE	BUREAU OF SANITATION	(213) 485-7575	

BOE NOTIFICATION ROSTER:

EDWARD ARRINGTON	DIVISION ENGINEER	(213) 485-1694	EDWARD.ARRINGTON@LACITY.ORG
HORTENSIA ALONSO	ASSISTANT DIVISION MANAGER	(213) 485-1641	HORTENSIA.ALONSO@LACITY.ORG
VIVIAN LUI	CIVIL ENGINEER	(213) 847-0310	VIVIAN.LUI@LACITY.ORG

HORIZONTAL AND VERTICAL CONTROL

HORIZONTAL CONTROL:
NAD 83 (ZONE 5) COORDINATES
PER F.B. 126-217 PAGES 123, 129, 140, 174, 175, AND 191
F.B. 123-221 PAGE 106

HELD COORD. PER NAVIGATE LA: (BASIN OF BEARINGS, S 77-38-27 E)
(HELD FOR POSITION) CP NO. 14 NORTHING 1836387.06
FD SSDM PER 126-217 P123 EASTING 6491165.61
(HELD FOR POSITION) CP NO. 712 NORTHING 1835473.68
FD SMHM PER 123-221 P106 EASTING 6495334.11

BENCHMARK:
NGVD 1929-1985 ADJUSTMENT
BM 12-04070 ELEV'N = 247.26
BM 11-02339 ELEV'N = 318.86

OFF-STREET PARKING SUMMARY

PARKING PLAZA TOTAL PARKING SPACES = 14 SPACES
- STANDARD PARKING SPACES = 2 SPACES
- STANDARD PARKING SPACES - RESERVED FOR CITY STAFF = 6 SPACES
- EV/CLEAN AIR/VANPOOL (FUTURE EV CHARGER CAPABLE) PARKING SPACES = 1 SPACE
- EV/CLEAN AIR/VANPOOL (FUTURE EV CHARGER CAPABLE) PARKING SPACES - RESERVED FOR CITY STAFF = 2 SPACES
- VAN ACCESSIBLE EV CHARGING PARKING SPACE = 1 SPACE
- EV CHARGING PARKING SPACE - RESERVED FOR CITY STAFF = 1 SPACE
- VAN ACCESSIBLE ADA PARKING SPACES = 1 SPACE

ABBREVIATIONS

AC	ASPHALT CONCRETE
ACC	ACCESSIBLE
AGG	AGGREGATE
BBALL	BASKETBALL COURT/BASEBALL FIELD
BC	BEGINNING OF CURVE
BE	BOTTOM ELEVATION
BEG	BEGIN
BG	BOTTOM GRADE
BMP	BEST MANAGEMENT PRACTICE
CA MUTCD	CALIFORNIA MANUAL ON UNIFORM TRAFFIC CONTROL DEVICES
CB	CATCH BASIN
CF	CUBIC FEET/CURB FACE
CFS	CUBIC FEET PER SECOND
CH	CHAPTER
CLF	CHAIN LINK FENCE
CO	CLEAN OUT
CONC	CONCRETE
DG	DECOMPOSED GRANITE
DHW	DESIGN HIGH WATER
DLH	DESIGN LOW WATER
DOC	DOCUMENT
DWG	DRAWING
DWP	DEPARTMENT OF WATER AND POWER
DWPWS	DEPARTMENT OF WATER AND POWER, WATER SERVICE
E	ELECTRICAL LINE
EA	EACH
EC	END OF CURVE
EL	ELEVATION
ELEV	ELEVATION
EX/EXIST	EXISTING
FG	FINISH GRADE
FL	FLOW LINE
FS	FINISH SURFACE
G	GAS LINE
GA	GAUGE
GALV	GALVINIZED
GB	GRADE BREAK
GPR	GROUND PENETRATING RADAR
GTR	GUTTER
HDPE	HIGH DENSITY POLYETHYLENE
HDS	HYDRO DYNAMIC SEPARATOR
HP	HIGH POINT ELEVATION
HR	HOUR
IN	INCHES
INV	INVERT
LABC	LOS ANGELES BUILDING CODE
LF	LINEAR FOOT
LG	LIP OF GUTTER
LP	LOW POINT ELEVATION/LIGHT POLE
MAX	MAXIMUM
MH	MAINTENANCE HOLE
MIL	MILI LITERS
MIN	MINIMUM
N.A.P.	NOT A PART
NO	NUMBER
NOS	NORTH OUTFALL SEWER
NTS	NOT TO SCALE
OC	ON CENTER
OD	OUTSIDE DIAMETER
OP	CURB OPENING
PLNT	PLANTER
POC	POINT OF CONNECTION
PVC	POLYVINYL CHLORIDE PIPE
PVMT	PAVEMENT
SPPWC	APWA STANDARD PLANS FOR SOUTHERN CALIFORNIA PUBLIC WORKS CONSTRUCTION
RAP	RECREATION AND PARKS
R & S	REMOVE AND SALVAGE
RCP	REINFORCED CONCRETE PIPE
RP	RADIAL POINT
R/W	RIGHT OF WAY
SD	STORM DRAIN
SIMMS	SEWER INVENTORY MAINTENANCE MANAGEMENT SYSTEM
SS	SANITARY SEWER/STAINLESS STEEL
STA	STATION
STD	STANDARD
SW/SWLK	SIDEWALK
TB	TOP OF BERM
TC	TOP OF CURB
TEL	TELEPHONE
TF	TOP OF FOOTING ELEVATION
TG	TOP OF GRATE
TV	TREATMENT VALVE
TW	TOP OF WALL ELEVATION
TYP	TYPICAL
VCP	VITRIFIED CLAY PIPE
W	DOMESTIC WATER
WSE	WATER SURFACE ELEVATION
WM	WATER METER
WV	WATER VALVE

EARTHWORK NOTES:

1. THE CONTRACTOR SHALL CALCULATE THEIR OWN EARTHWORK QUANTITIES NECESSARY FOR THEIR BID AND WORK. CITY IS NOT RESPONSIBLE AND LIABLE FOR THE CONTRACTOR'S EARTHWORK CALCULATION. THE EARTHWORK CALCULATIONS SHALL TAKE INTO ACCOUNT THE REMOVAL OF HAZARDOUS SOILS AS PART OF THE PROJECT'S REMEDIAL ACTION PLAN. REFER TO THE SPECIFICATIONS FOR ADDITIONAL INFORMATION.
2. EXISTING GRADES MAY HAVE CHANGED DUE TO ON-GOING VIADUCT PROJECT CONSTRUCTION ACTIVITIES THROUGHOUT THE PROJECT LIMITS. ORIGINAL DATE OF SURVEY WAS 2012 WITH SUPPLEMENTAL SURVEY IN 2017. CONTRACTOR SHALL PERFORM AN EXISTING TOPOGRAPHIC SURVEY OF THE PROJECT AREAS PRIOR TO BEGINNING WORK, AND THE TOPOGRAPHIC SURVEY SHALL BE SUBMITTED TO THE CITY FOR REVIEW.
3. EXISTING ON-SITE MATERIALS TO BE REUSED AS BACKFILL AND IMPORTED MATERIALS MUST FIRST BE APPROVED BY THE GEOTECHNICAL ENGINEER PRIOR TO INSTALLATION, REMOVAL, OR REPLACEMENT.

SOILS REPORT AND INVESTIGATION

UPDATE OF DRAFT GEOTECHNICAL REPORT FOR THE SIXTH STREET VIADUCT - PARK, ARTS AND RIVER CONNECTIVITY (PARC) IMPROVEMENTS PROJECT PREPARED BY TETRA TECH, INC. (PROJECT NO. TET21-203E), REPORT DATED AUGUST 2021 AND THE DRAFT GEOTECHNICAL EVALUATION FOR THE PROJECT PREPARED BY HUSHMAND ASSOCIATES, INC. (PROJECT NO. LAC-17-001; DATED JANUARY 2018)

PLANS PREPARED BY:
TETRA TECH, INC.
707 WILSHIRE BLVD, 23RD FLR.
LOS ANGELES, CA 90017
PHONE: (213) 239-8866

CITY OF LOS ANGELES DEPARTMENT OF PUBLIC WORKS BUREAU OF ENGINEERING

VERT. CONTROL: BM 12-04070, 1929 (NGVD29) - 1985 ADJUSTMENT
HORIZ. CONTROL: GPS; PID AE 1704, EPOCH 1991.35

SHEET TITLE: NOTICE TO CONTRACTORS SHEET 2
PROJECT: SIXTH STREET PARK, ARTS AND RIVER CONNECTIVITY IMPROVEMENTS (PARC)
ADDRESS: SIXTH STREET OVER THE LOS ANGELES RIVER

GARY LEE MOORE, P.E., ENV SP — CITY ENGINEER
DESIGN GROUP
ENGINEER: JUSTIN SMITH LIC. NO. C-85736 DATE: 07/11/22
DESIGNED BY: JUSTIN SMITH
DRAWN BY: DAVID LOPEZ
CHECKED BY: NATE SCHREINER
APPROVED BY: JASON L. FUSSEL

THIS PLAN WAS ELECTRONICALLY SIGNED AND STAMPED
REGISTERED PROFESSIONAL ENGINEER JUSTIN T. SMITH No. 85736 EXP: 9-30-22 CIVIL STATE OF CALIFORNIA

NO. | REVISIONS | DATE | BY
INDEX NO.
BUILDING NO.

WORK ORDER NO. E700235D
FILE NO. --
DRAWING NO. G-003
SHEET 3 OF 295 SHEETS

REVISION DATES (DESIGN STAGE ONLY)

Sheet Version 3.0

7/8/2022 9:52:38 AM - O:\PROJECTS\IRVINE\20043\200-20043-17001\CAD\SHEETFILES\G-003_NOTICE TO CONTRACTORS.DWG - SMITH, JUSTIN

BID SET - NOT FOR CONSTRUCTION

SHEET LIST TABLE

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288	P-301	STAFF & SHOP BUILDINGS DOMESTIC HOT & COLD WATER FLOOR PLANS
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291	P-601	PLUMBING SCHEDULES
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293	P-902	WASTE & VENT ISOMETRIC - CAFE/RR
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THE CITY OF LOS ANGELES OR ITS OFFICERS OR AGENTS SHALL NOT BE RESPONSIBLE FOR THE ACCURACY OR COMPLETENESS OF ELECTRONIC COPIES OF THIS PLAN SHEET.

REVISION DATES (DESIGN STAGE ONLY)

Sheet Version 3.0

PLANS PREPARED BY:

TETRA TECH, INC.
707 WILSHIRE BLVD. 23RD FLR.
LOS ANGELES, CA 90017
PHONE: (213) 239-8866

CITY OF LOS ANGELES — DEPARTMENT OF PUBLIC WORKS — BUREAU OF ENGINEERING

ENGINEERING — CITY OF LOS ANGELES

VERT. CONTROL: BM 12-04070, 1929 (NGVD29) • 1985 ADJUSTMENT
HORIZ. CONTROL: GPS; PID AE 1704, EPOCH 1991.35

SHEET TITLE: SHEET INDEX

PROJECT: SIXTH STREET PARK, ARTS AND RIVER CONNECTIVITY IMPROVEMENTS (PARC)

ADDRESS: SIXTH STREET OVER THE LOS ANGELES RIVER

GARY LEE MOORE, P.E., ENV SP — CITY ENGINEER
DESIGN GROUP

ENGINEER: JUSTIN SMITH — LIC. NO. C-85736 — DATE: 07/11/22
DESIGNED BY: JUSTIN SMITH
DRAWN BY: DAVID LOPEZ
CHECKED BY: NATE SCHREINER
APPROVED BY: JASON L. FUSSEL

THIS PLAN WAS ELECTRONICALLY SIGNED AND STAMPED.

REGISTERED PROFESSIONAL ENGINEER — JUSTIN T. SMITH — No. 85736 — EXP. 9-30-22 — CIVIL — STATE OF CALIFORNIA

NO.	REVISIONS	DATE	BY

INDEX NO.

BUILDING NO.

WORK ORDER NO. E700235D
FILE NO. --
DRAWING NO. G-004
SHEET 4 OF 295 SHEETS

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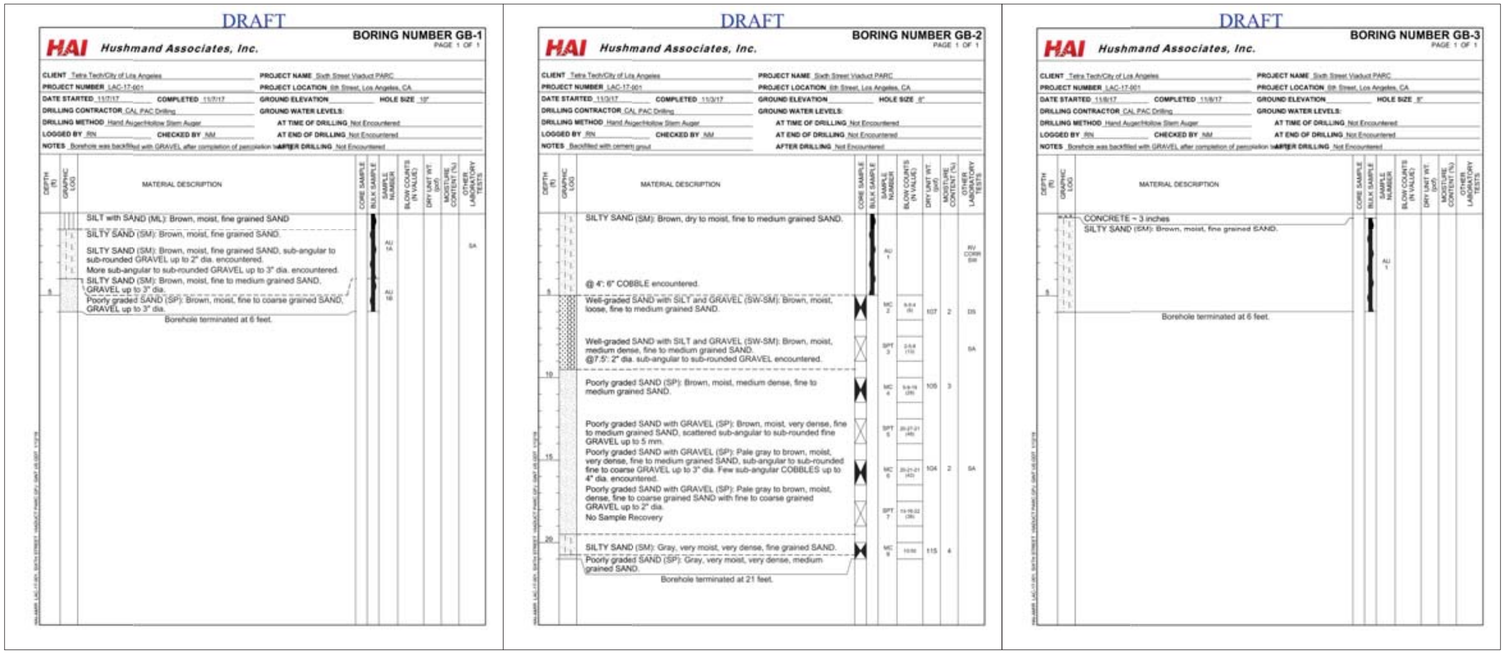
BID SET - NOT FOR CONSTRUCTION

SOIL BORING INFORMATION
GB-1 TO GB-3

NOTES:
1. THE BORING LOGS SHOWN ON THIS SHEET ARE FROM THE DRAFT GEOTECHNICAL SITE INVESTIGATION FOR THE PROJECT PREPARED BY HUSHMAND ASSOCIATES, INC. (PROJECT NO. LAC-17-001; DATED JANUARY 2018). THE DRAFT GEOTECHNICAL SITE INVESTIGATION WAS UPDATED AND FINALIZED BY REFERENCE IN THE UPDATE OF THE DRAFT GEOTECHNICAL REPORT PREPARED BY TETRA TECH, INC. (PROJECT NO. TET 21-203E; DATED AUGUST 2021). REFER TO NOTE 24, SHEET G-002 FOR ADDITIONAL INFORMATION.



DRAFT

HAI Hushmand Associates, Inc. — BORING NUMBER GB-1, PAGE 1 OF 1

CLIENT Tetra Tech/City of Los Angeles; PROJECT NAME Sixth Street Viaduct PARC; PROJECT NUMBER LAC-17-001; PROJECT LOCATION 6th Street, Los Angeles, CA; DATE STARTED 11/7/17; COMPLETED 11/7/17; HOLE SIZE 10"; DRILLING CONTRACTOR CAL PAC Drilling; DRILLING METHOD Hand Auger/Hollow Stem Auger; LOGGED BY RN; CHECKED BY NM; GROUND WATER LEVELS: AT TIME OF DRILLING Not Encountered; AT END OF DRILLING Not Encountered; AFTER DRILLING Not Encountered; NOTES Borehole was backfilled with GRAVEL after completion of percolation test.

DEPTH (ft)	MATERIAL DESCRIPTION	SAMPLE NUMBER	OTHER LABORATORY TESTS
	SILT with SAND (ML): Brown, moist, fine grained SAND		
	SILTY SAND (SM): Brown, moist, fine grained SAND.	AU 1A	SA
	SILTY SAND (SM): Brown, moist, fine grained SAND, sub-angular to sub-rounded GRAVEL up to 2" dia. encountered. More sub-angular to sub-rounded GRAVEL up to 3" dia. encountered.		
5	SILTY SAND (SM): Brown, moist, fine to medium grained SAND, GRAVEL up to 3" dia.	AU 1B	
	Poorly graded SAND (SP): Brown, moist, fine to coarse grained SAND, GRAVEL up to 3" dia.		
	Borehole terminated at 6 feet.		

DRAFT

HAI Hushmand Associates, Inc. — BORING NUMBER GB-2, PAGE 1 OF 1

CLIENT Tetra Tech/City of Los Angeles; PROJECT NAME Sixth Street Viaduct PARC; PROJECT NUMBER LAC-17-001; PROJECT LOCATION 6th Street, Los Angeles, CA; DATE STARTED 11/3/17; COMPLETED 11/3/17; HOLE SIZE 8"; DRILLING CONTRACTOR CAL PAC Drilling; DRILLING METHOD Hand Auger/Hollow Stem Auger; LOGGED BY RN; CHECKED BY NM; GROUND WATER LEVELS: AT TIME OF DRILLING Not Encountered; AT END OF DRILLING Not Encountered; AFTER DRILLING Not Encountered; NOTES Backfilled with cement grout

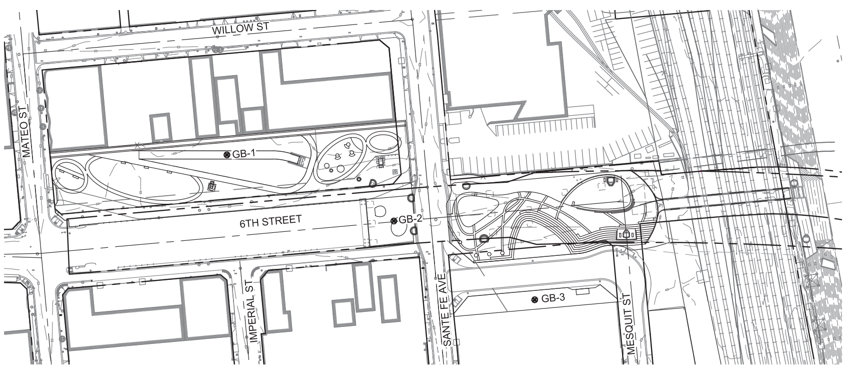
DEPTH (ft)	MATERIAL DESCRIPTION	SAMPLE NUMBER	BLOW COUNTS (N VALUE)	DRY UNIT WT. (pcf)	MOISTURE CONTENT (%)	OTHER LABORATORY TESTS
	SILTY SAND (SM): Brown, dry to moist, fine to medium grained SAND. @ 4'-6" COBBLE encountered.	AU 1				RV CORR SW
5	Well-graded SAND with SILT and GRAVEL (SW-SM): Brown, moist, loose, fine to medium grained SAND.	MC 2	6-5-4 (9)	107	2	DS
	Well-graded SAND with SILT and GRAVEL (SW-SM): Brown, moist, medium dense, fine to medium grained SAND. @7.5': 2" dia. sub-angular to sub-rounded GRAVEL encountered.	SPT 3	2-5-6 (11)			SA
10	Poorly graded SAND (SP): Brown, moist, medium dense, fine to medium grained SAND.	MC 4	9-9-15 (24)	105	3	
	Poorly graded SAND with GRAVEL (SP): Brown, moist, very dense, fine to medium grained SAND, scattered sub-angular to sub-rounded fine GRAVEL up to 5 mm.	SPT 5	20-27-21 (48)			
15	Poorly graded SAND with GRAVEL (SP): Pale gray to brown, moist, very dense, fine to medium grained SAND, sub-angular to sub-rounded fine to coarse GRAVEL up to 3" dia. Few sub-angular COBBLES up to 4" dia. encountered.	MC 6	20-21-21 (42)	104	2	SA
	Poorly graded SAND with GRAVEL (SP): Pale gray to brown, moist, dense, fine to coarse grained SAND with fine to coarse grained GRAVEL up to 2" dia. No Sample Recovery	SPT 7	15-16-22 (38)			
20	SILTY SAND (SM): Gray, very moist, very dense, fine grained SAND.	MC 8	10/50	115	4	
	Poorly graded SAND (SP): Gray, very moist, very dense, medium grained SAND.					
	Borehole terminated at 21 feet.					

DRAFT

HAI Hushmand Associates, Inc. — BORING NUMBER GB-3, PAGE 1 OF 1

CLIENT Tetra Tech/City of Los Angeles; PROJECT NAME Sixth Street Viaduct PARC; PROJECT NUMBER LAC-17-001; PROJECT LOCATION 6th Street, Los Angeles, CA; DATE STARTED 11/8/17; COMPLETED 11/8/17; HOLE SIZE 8"; DRILLING CONTRACTOR CAL PAC Drilling; DRILLING METHOD Hand Auger/Hollow Stem Auger; LOGGED BY RN; CHECKED BY NM; GROUND WATER LEVELS: AT TIME OF DRILLING Not Encountered; AT END OF DRILLING Not Encountered; AFTER DRILLING Not Encountered; NOTES Borehole was backfilled with GRAVEL after completion of percolation test.

DEPTH (ft)	MATERIAL DESCRIPTION	SAMPLE NUMBER
	CONCRETE ~ 3 inches	
	SILTY SAND (SM): Brown, moist, fine grained SAND.	AU 1
5	Borehole terminated at 6 feet.	



KEY MAP

PLANS PREPARED BY:
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CITY OF LOS ANGELES — DEPARTMENT OF PUBLIC WORKS — BUREAU OF ENGINEERING

VERT. CONTROL: BM 12-04070, 1929 (NGVD29) • 1985 ADJUSTMENT
HORIZ. CONTROL: GPS; PID AE 1704, EPOCH 1991.35

SHEET TITLE: BORING LOGS SHEET 1

PROJECT: SIXTH STREET PARK, ARTS AND RIVER CONNECTIVITY IMPROVEMENTS (PARC)

ADDRESS: SIXTH STREET OVER THE LOS ANGELES RIVER

WORK ORDER NO. E700235D
FILE NO. --
DRAWING NO. G-005
SHEET 5 OF 295 SHEETS

GARY LEE MOORE, P.E., ENV SP — CITY ENGINEER
DESIGN GROUP
ENGINEER: JUSTIN SMITH — LIC. NO. C-85736 — DATE: 07/11/22
DESIGNED BY: JUSTIN SMITH
DRAWN BY: DAVID LOPEZ
CHECKED BY: NATE SCHREINER
APPROVED BY: JASON L. FUSSEL

• THIS PLAN WAS ELECTRONICALLY SIGNED AND STAMPED •

REGISTERED PROFESSIONAL ENGINEER — JUSTIN T. SMITH — No. 85736 — EXP. 9-30-22 — CIVIL — STATE OF CALIFORNIA

NO.	REVISIONS:	DATE:	BY:

INDEX NO.
BUILDING NO.

ENGINEERING — CITY OF LOS ANGELES

7/8/2022 2:03:55 AM - O:\PROJECTS\IRVINE\20043\200-20043-17001\CAD\SHEETFILES\G-005_BORING LOGS - TT.DWG - SMITH, JUSTIN

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REVISION DATES (DESIGN STAGE ONLY)

Sheet Version 3.0

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SOIL BORING INFORMATION (CONT.)
GB-4

NOTES:
1. THE BORING LOGS SHOWN ON THIS SHEET ARE FROM THE DRAFT GEOTECHNICAL SITE INVESTIGATION FOR THE PROJECT PREPARED BY HUSHMAND ASSOCIATES, INC. (PROJECT NO. LAC-17-001; DATED JANUARY 2018). THE DRAFT GEOTECHNICAL SITE INVESTIGATION WAS UPDATED AND FINALIZED BY REFERENCE IN THE UPDATE OF THE DRAFT GEOTECHNICAL REPORT PREPARED BY TETRA TECH, INC. (PROJECT NO. TET 21-203E; DATED AUGUST 2021). REFER TO NOTE 24, SHEET G-002 FOR ADDITIONAL INFORMATION.

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HAI Hushmand Associates, Inc. — **BORING NUMBER GB-4** PAGE 1 OF 2

CLIENT Tetra Tech/City of Los Angeles — PROJECT NAME Sixth Street Viaduct PARC
PROJECT NUMBER LAC-17-001 — PROJECT LOCATION 6th Street, Los Angeles, CA
DATE STARTED 11/6/17 — COMPLETED 11/6/17 — GROUND ELEVATION — HOLE SIZE 8"
DRILLING CONTRACTOR CAL PAC Drilling — GROUND WATER LEVELS:
DRILLING METHOD Hand Auger/Hollow Stem Auger — AT TIME OF DRILLING Not Encountered
LOGGED BY RN — CHECKED BY NM — AT END OF DRILLING Not Encountered
NOTES Backfilled with cement grout — AFTER DRILLING Not Encountered

DEPTH (ft)	MATERIAL DESCRIPTION	SAMPLE NUMBER	BLOW COUNTS (N VALUE)	DRY UNIT WT. (pcf)	MOISTURE CONTENT (%)	OTHER LABORATORY TESTS
0	SILTY SAND (SM): Dark grayish brown, moist, fine grained SAND with sub-rounded to sub-angular GRAVEL up to 2" encountered.	AU 1				
5	SILTY SAND (SM): Dark grayish brown, moist, loose, fine grained SAND.	SPT 2	3-3-3 (6)			
	Poorly graded SAND (SP): Gray, moist, loose, fine to coarse grained SAND.					
	SILTY SAND (SM): Brown, moist, loose, fine grained SAND.	MC 3	4-6-7 (13)			SW
10	Same as above.	SPT 4	2-2-2 (4)			SA
	Poorly graded SAND (SP): Grayish brown, moist, loose, fine to medium grained SAND, fine GRAVEL up to 5 mm. dia.	MC 5	5-4-4 (8)	107	9	DS
15	Poorly graded SAND (SP): Grayish brown, moist, medium dense, fine to medium grained SAND, fine GRAVEL up to 5 mm. dia.	SPT 6	4-6-8 (14)			
	Well-graded SAND (SW): Yellowish brown, moist, medium dense, fine to medium grained SAND, fine GRAVEL up to 5 mm. dia.					
	Poorly graded SAND (SP): Mixture of pale yellow to pale brown, moist, dense, medium to coarse grained SAND, occasional fine GRAVEL.	MC 7	19-19-24 (43)	103	2	SA
20	Poorly graded SAND with GRAVEL (SP): Mixture of pale yellow to pale brown, moist, dense, medium to coarse grained SAND, fine GRAVEL.					
	Poorly graded SAND (SP): Mixture of pale yellow to pale brown, moist, very dense, medium to coarse grained SAND, fine to coarse GRAVEL up to 1.5" dia.	SPT 8	19-21-26 (47)			CORR

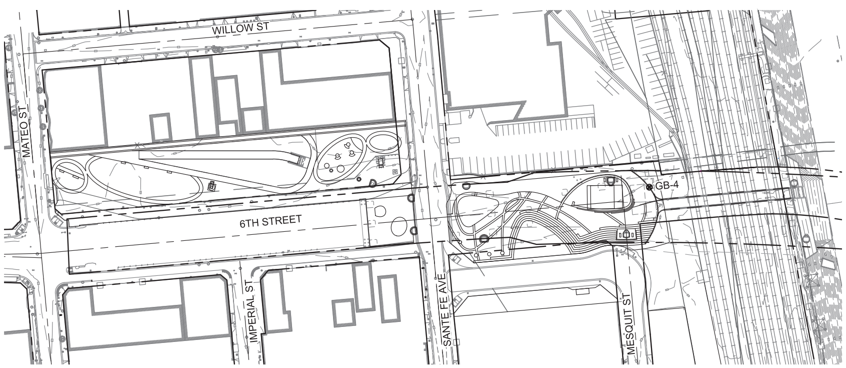
(Continued Next Page)

DRAFT

HAI Hushmand Associates, Inc. — **BORING NUMBER GB-4** PAGE 2 OF 2

CLIENT Tetra Tech/City of Los Angeles — PROJECT NAME Sixth Street Viaduct PARC
PROJECT NUMBER LAC-17-001 — PROJECT LOCATION 6th Street, Los Angeles, CA

DEPTH (ft)	MATERIAL DESCRIPTION	SAMPLE NUMBER	BLOW COUNTS (N VALUE)	DRY UNIT WT. (pcf)	MOISTURE CONTENT (%)	OTHER LABORATORY TESTS
25	SILTY SAND with GRAVEL (SM): Grayish brown, moist, dense, fine to medium grained SAND.	MC 9	12-16-22 (38)	109	4	DS
30	SILTY SAND with GRAVEL (SM): Gray, moist, very dense, fine SAND with fine GRAVEL, with GRAVEL up to 2" dia. @ 30.5' to 31': Color change to dark gray. SILTY SAND with GRAVEL (SM): Gray, moist, very dense, fine to medium grained SAND with fine sub-angluar to sub-rounded fine GRAVEL. GRAVEL up to 2" dia. encountered occasionally.	SPT 10	21-50/3"			
35	Poorly graded SAND with SILT (SP-SM): Gray, moist, very dense, fine to medium grained SAND. 3" dia. sub-rounded GRAVEL encountered at the bottom of sampler.	MC 11	50	102	10	DS
	Same as above. Borehole terminated at 39.08 feet.	SPT 12	50/1"			



KEY MAP

PLANS PREPARED BY:
TETRA TECH, INC.
707 WILSHIRE BLVD, 23RD FLR.
LOS ANGELES, CA 90017
PHONE: (213) 239-8866

CITY OF LOS ANGELES — DEPARTMENT OF PUBLIC WORKS — BUREAU OF ENGINEERING

VERT. CONTROL: BM 12-04070, 1929 (NGVD29) • 1985 ADJUSTMENT
HORIZ. CONTROL: GPS; PID AE 1704, EPOCH 1991.35

SHEET TITLE: BORING LOGS SHEET 2
PROJECT: SIXTH STREET PARK, ARTS AND RIVER CONNECTIVITY IMPROVEMENTS (PARC)
ADDRESS: SIXTH STREET OVER THE LOS ANGELES RIVER

GARY LEE MOORE, P.E., ENV SP — CITY ENGINEER
DESIGN GROUP
ENGINEER: JUSTIN SMITH — LIC. NO. C-85736 — DATE: 07/11/22
DESIGNED BY: JUSTIN SMITH
DRAWN BY: DAVID LOPEZ
CHECKED BY: NATE SCHREINER
APPROVED BY: JASON L. FUSSEL

THIS PLAN WAS ELECTRONICALLY SIGNED AND STAMPED.

REGISTERED PROFESSIONAL ENGINEER — JUSTIN T. SMITH — No. 85736 — EXP. 9-30-22 — CIVIL — STATE OF CALIFORNIA

NO. | REVISIONS: | DATE: | BY:
INDEX NO.
BUILDING NO.

WORK ORDER NO. E700235D
FILE NO. --
DRAWING NO. G-006
SHEET 6 OF 295 SHEETS

REVISION DATES (DESIGN STAGE ONLY)

Sheet Version 3.0

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SOIL BORING INFORMATION (CONT.)
GB-6 TO GB-8

NOTES:
1. THE BORING LOGS SHOWN ON THIS SHEET ARE FROM THE DRAFT GEOTECHNICAL SITE INVESTIGATION FOR THE PROJECT PREPARED BY HUSHMAND ASSOCIATES, INC. (PROJECT NO. LAC-17-001; DATED JANUARY 2018) . THE DRAFT GEOTECHNICAL SITE INVESTIGATION WAS UPDATED AND FINALIZED BY REFERENCE IN THE UPDATE OF THE DRAFT GEOTECHNICAL REPORT PREPARED BY TETRA TECH, INC. (PROJECT NO. TET 21-203E; DATED AUGUST 2021). REFER TO NOTE 24, SHEET G-002 FOR ADDITIONAL INFORMATION.

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HAI Hushmand Associates, Inc.

BORING NUMBER GB-6
PAGE 1 OF 1

CLIENT Tetra Tech/City of Los Angeles
PROJECT NAME Sixth Street Viaduct PARC
PROJECT NUMBER LAC-17-001
PROJECT LOCATION 6th Street, Los Angeles, CA
DATE STARTED 11/7/17 COMPLETED 11/7/17
GROUND ELEVATION HOLE SIZE 9"
DRILLING CONTRACTOR CAL PAC Drilling
GROUND WATER LEVELS:
DRILLING METHOD Hand Auger/Hollow Stem Auger
AT TIME OF DRILLING Not Encountered
LOGGED BY RN CHECKED BY NM
AT END OF DRILLING Not Encountered
NOTES Borehole was backfilled with GRAVEL after completion of percolation te
AFTER DRILLING Not Encountered

DEPTH (ft)	GRAPHIC LOG	MATERIAL DESCRIPTION	CORE SAMPLE	BULK SAMPLE	SAMPLE NUMBER	BLOW COUNTS (N VALUE)	DRY UNIT WT. (pcf)	MOISTURE CONTENT (%)	OTHER LABORATORY TESTS
		SILTY SAND with GRAVEL (SM): Brown, moist, fine grained SAND, sub-angular to sub-rounded fine to coarse GRAVEL up to 3" dia. @ 1': 4" dia. COBBLE encountered.			AU 1A				SA
		More GRAVEL and COBBLES encountered. Very difficult conditions to perform hand auguring.							
5		Poorly graded SAND with SILT and GRAVEL (SP-SM): Brown, moist, fine to medium grained SAND, fine GRAVEL. @ 4.75': more GRAVEL and COBBLES encountered. Very difficult conditions to perform hand auguring.			AU 1B				
		Poorly graded SAND (SP): Brown, moist, medium grained SAND.							
		Borehole terminated at 6.08 feet.							

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HAI Hushmand Associates, Inc.

BORING NUMBER GB-7
PAGE 1 OF 1

CLIENT Tetra Tech/City of Los Angeles
PROJECT NAME Sixth Street Viaduct PARC
PROJECT NUMBER LAC-17-001
PROJECT LOCATION 6th Street, Los Angeles, CA
DATE STARTED 11/6/17 COMPLETED 11/6/17
GROUND ELEVATION HOLE SIZE 8"
DRILLING CONTRACTOR CAL PAC Drilling
GROUND WATER LEVELS:
DRILLING METHOD Hand Auger/Hollow Stem Auger
AT TIME OF DRILLING Not Encountered
LOGGED BY RN CHECKED BY NM
AT END OF DRILLING Not Encountered
NOTES Borehole was backfilled with GRAVEL after completion of percolation te
AFTER DRILLING Not Encountered

DEPTH (ft)	GRAPHIC LOG	MATERIAL DESCRIPTION	CORE SAMPLE	BULK SAMPLE	SAMPLE NUMBER	BLOW COUNTS (N VALUE)	DRY UNIT WT. (pcf)	MOISTURE CONTENT (%)	OTHER LABORATORY TESTS
		ASPHALT ~ 3 inches							
		SILT with SAND (ML): Brown, fine SILT with fine grained SAND, sub-rounded GRAVEL up to 1.5" dia.			AU 1A				
		SILTY SAND (SM): Brown, moist, fine grained SAND, sub-rounded GRAVEL up to 1.5" dia.			AU 1B				
5		Poorly graded SAND (SP): Brown, moist, fine grained SAND.							
		Borehole terminated at 6.04 feet.							

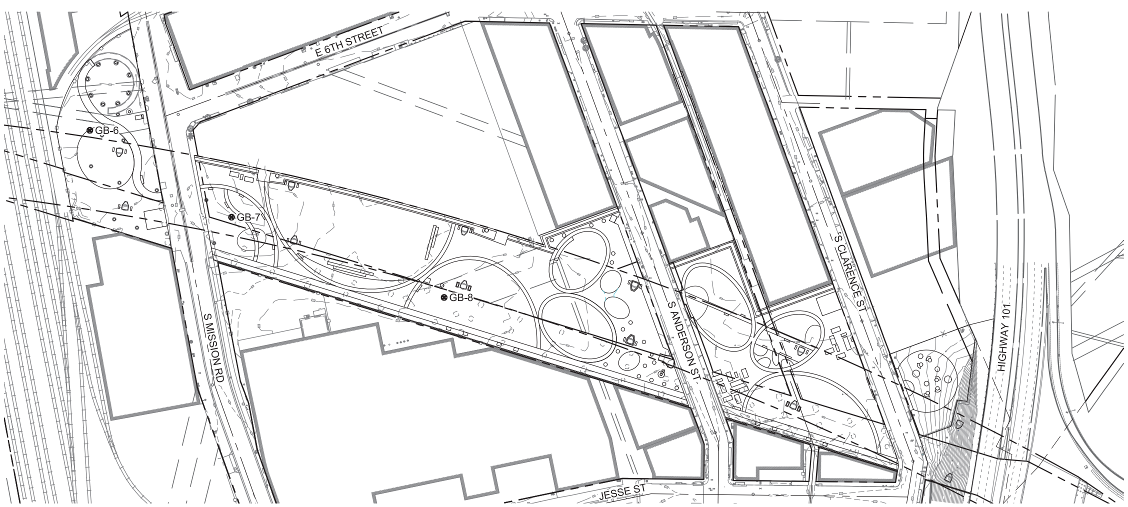
DRAFT

HAI Hushmand Associates, Inc.

BORING NUMBER GB-8
PAGE 1 OF 1

CLIENT Tetra Tech/City of Los Angeles
PROJECT NAME Sixth Street Viaduct PARC
PROJECT NUMBER LAC-17-001
PROJECT LOCATION 6th Street, Los Angeles, CA
DATE STARTED 11/6/17 COMPLETED 11/6/17
GROUND ELEVATION HOLE SIZE 10"
DRILLING CONTRACTOR CAL PAC Drilling
GROUND WATER LEVELS:
DRILLING METHOD Hand Auger/Hollow Stem Auger
AT TIME OF DRILLING Not Encountered
LOGGED BY RN CHECKED BY NM
AT END OF DRILLING Not Encountered
NOTES Borehole was backfilled with GRAVEL after completion of percolation te
AFTER DRILLING Not Encountered

DEPTH (ft)	GRAPHIC LOG	MATERIAL DESCRIPTION	CORE SAMPLE	BULK SAMPLE	SAMPLE NUMBER	BLOW COUNTS (N VALUE)	DRY UNIT WT. (pcf)	MOISTURE CONTENT (%)	OTHER LABORATORY TESTS
		ASPHALT ~ 3 inches							
5		SILTY SAND (SM): Brown, moist, fine grained SAND.			AU 1				
		Borehole terminated at 5.67 feet.							



KEY MAP

PLANS PREPARED BY:
TETRA TECH, INC.
707 WILSHIRE BLVD. 23RD FLR.
LOS ANGELES, CA 90017
PHONE: (213) 239-8866

CITY OF LOS ANGELES — DEPARTMENT OF PUBLIC WORKS — BUREAU OF ENGINEERING

VERT. CONTROL: BM 12-04070, 1929 (NGVD29) - 1985 ADJUSTMENT
HORIZ. CONTROL: GPS; PID AE 1704, EPOCH 1991.35

SHEET TITLE: BORING LOGS SHEET 3
PROJECT: SIXTH STREET PARK, ARTS AND RIVER CONNECTIVITY IMPROVEMENTS (PARC)
ADDRESS: SIXTH STREET OVER THE LOS ANGELES RIVER

GARY LEE MOORE, P.E., ENV SP — CITY ENGINEER
DESIGN GROUP
ENGINEER: JUSTIN SMITH LIC. NO. C-85736 DATE: 07/11/22
DESIGNED BY: JUSTIN SMITH
DRAWN BY: DAVID LOPEZ
CHECKED BY: NATE SCHREINER
APPROVED BY: JASON L. FUSSEL

• THIS PLAN WAS ELECTRONICALLY SIGNED AND STAMPED •

REGISTERED PROFESSIONAL ENGINEER — JUSTIN T. SMITH — No. 85736 — EXP: 9-30-22 — CIVIL — STATE OF CALIFORNIA

NO. | REVISIONS | DATE | BY
INDEX NO.
BUILDING NO.

WORK ORDER NO. E700235D
FILE NO. --
DRAWING NO. G-007
SHEET 7 OF 295 SHEETS

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REVISION DATES (DESIGN STAGE ONLY)

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Sheet Version 3.0

SOIL BORING INFORMATION (CONT.)

GB-9 TO GB-10

NOTES:

1. THE BORING LOGS SHOWN ON THIS SHEET ARE FROM THE DRAFT GEOTECHNICAL SITE INVESTIGATION FOR THE PROJECT PREPARED BY HUSHMAND ASSOCIATES, INC. (PROJECT NO. LAC-17-001; DATED JANUARY 2018). THE DRAFT GEOTECHNICAL SITE INVESTIGATION WAS UPDATED AND FINALIZED BY REFERENCE IN THE UPDATE OF THE DRAFT GEOTECHNICAL REPORT PREPARED BY TETRA TECH, INC. (PROJECT NO. TET 21-203E; DATED AUGUST 2021). REFER TO NOTE 24, SHEET G-002 FOR ADDITIONAL INFORMATION.

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HAI Hushmand Associates, Inc. — **BORING NUMBER GB-9** PAGE 1 OF 1

CLIENT Tetra Tech/City of Los Angeles — PROJECT NAME Sixth Street Viaduct PARC
PROJECT NUMBER LAC-17-001 — PROJECT LOCATION 6th Street, Los Angeles, CA
DATE STARTED 11/3/17 COMPLETED 11/3/17 — GROUND ELEVATION — HOLE SIZE 8"
DRILLING CONTRACTOR CAL PAC Drilling — GROUND WATER LEVELS:
DRILLING METHOD Hand Auger/Hollow Stem Auger — AT TIME OF DRILLING Not Encountered
LOGGED BY RN CHECKED BY NM — AT END OF DRILLING Not Encountered
NOTES Backfilled with cement grout — AFTER DRILLING Not Encountered

DEPTH (ft)	MATERIAL DESCRIPTION	SAMPLE NUMBER	BLOW COUNTS (N VALUE)	DRY UNIT WT. (pcf)	MOISTURE CONTENT (%)	OTHER LABORATORY TESTS
0	Poorly graded SAND (SP): Gray, moist, fine to medium grained, with angular gravel up to 1" dia. @ 2': 2" dia. GRAVEL encountered.	AU 1				RV CORR
5	Poorly graded SAND (SP): Light gray, moist, medium dense, fine to medium grained.	MC 2	6-6-8 (14)	101	3	DS
	Poorly graded SAND with SILT and GRAVEL(SP): Brown, moist, medium dense, fine to medium grained. @ 8.25': sub-angular GRAVEL up to 1.5" dia. encountered.	SPT 3	8-15-11 (26)			SA
10	Poorly graded SAND (SP): Light gray, moist, dense fine to medium grained. 3" dia. sub-angular GRAVEL found at the bottom of sampler.	MC 4	10-24-28 (52)	118	3	
	Poorly graded SAND (SP): Gray to light brown, moist, dense, medium to coarse grained, fine sub-angular gravel up to 1" dia.	SPT 5	7-10-10 (20)			
15	Poorly graded SAND (SP): Gray, moist, medium dense, fine to coarse grained SAND.	MC 6	10-13-15 (28)	106	3	
	Well-graded SAND with GRAVEL (SW): Light brown, moist, dense, fine to coarse grained SAND. SILTY SAND (SM): Light brown, moist dense, fine grained SAND.	SPT 7	8-10-14 (24)			SA
20	Poorly graded SAND (SP): Light brown, medium dense, fine to coarse grained SAND, fine to coarse GRAVEL up to 1.5" dia. 3" dia. GRAVEL encountered at the bottom of sampler.	MC 8	13-16-10 (26)	118	3	

Borehole terminated at 21.5 feet.

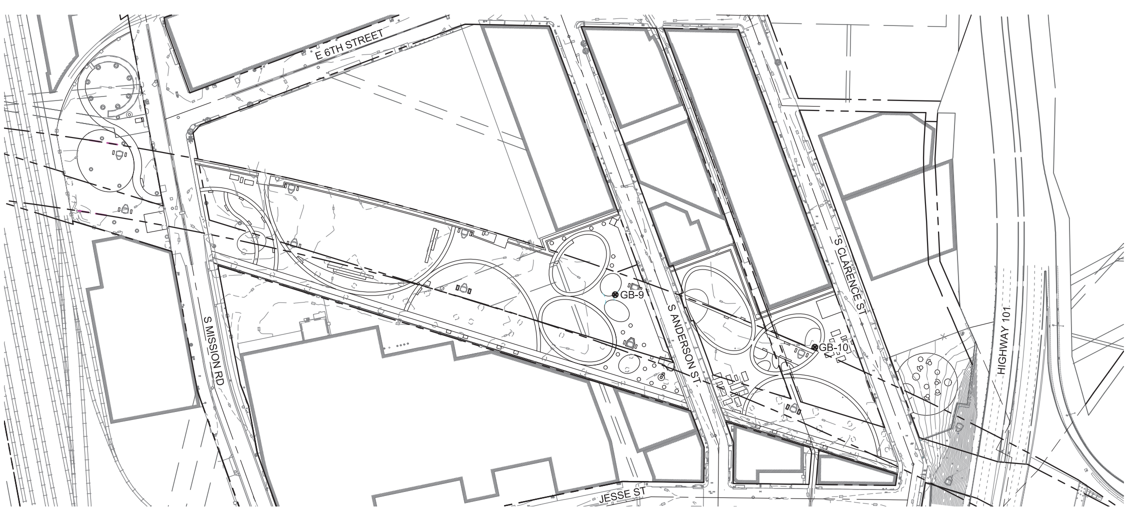
DRAFT

HAI Hushmand Associates, Inc. — **BORING NUMBER GB-10** PAGE 1 OF 1

CLIENT Tetra Tech/City of Los Angeles — PROJECT NAME Sixth Street Viaduct PARC
PROJECT NUMBER LAC-17-001 — PROJECT LOCATION 6th Street, Los Angeles, CA
DATE STARTED 11/7/17 COMPLETED 11/7/17 — GROUND ELEVATION — HOLE SIZE 8"
DRILLING CONTRACTOR CAL PAC Drilling — GROUND WATER LEVELS:
DRILLING METHOD Hand Auger/Hollow Stem Auger — AT TIME OF DRILLING Not Encountered
LOGGED BY RN CHECKED BY NM — AT END OF DRILLING Not Encountered
NOTES Borehole was backfilled with GRAVEL after completion of percolation test — AFTER DRILLING Not Encountered

DEPTH (ft)	MATERIAL DESCRIPTION	SAMPLE NUMBER	BLOW COUNTS (N VALUE)	DRY UNIT WT. (pcf)	MOISTURE CONTENT (%)	OTHER LABORATORY TESTS
0	Poorly graded SAND with SILT (SP-SM): Light brown, moist, fine grained SAND with SILT. SILTY SAND (SM): Brown, moist, fine grained, sub-angular to sub-rounded GRAVEL and COBBLES up to 4" dia. encountered. SILTY SAND (SM): Brown, moist, fine grained SAND.	AU 1A				SA
5	Poorly graded SAND (SP): Brown, moist, fine to coarse grained SAND, very little GRAVEL up to 1.5" dia.	AU 1B				

Borehole terminated at 6 feet.



KEY MAP

REVISION DATES (DESIGN STAGE ONLY)

Sheet Version 3.0

PLANS PREPARED BY: TETRA TECH, INC. 707 WILSHIRE BLVD. 23RD FLR. LOS ANGELES, CA 90017 PHONE: (213) 239-8866

CITY OF LOS ANGELES — DEPARTMENT OF PUBLIC WORKS — BUREAU OF ENGINEERING

VERT. CONTROL: BM 12-04070, 1929 (NGVD29) • 1985 ADJUSTMENT
HORIZ. CONTROL: GPS; PID AE 1704, EPOCH 1991.35

SHEET TITLE: BORING LOGS SHEET 4
PROJECT: SIXTH STREET PARK, ARTS AND RIVER CONNECTIVITY IMPROVEMENTS (PARC)
ADDRESS: SIXTH STREET OVER THE LOS ANGELES RIVER

WORK ORDER NO. E700235D
FILE NO. --
DRAWING NO. G-008
SHEET 8 OF 295 SHEETS

GARY LEE MOORE, P.E., ENV SP — CITY ENGINEER
DESIGN GROUP
ENGINEER: JUSTIN SMITH — LIC. NO. C-85736 — DATE: 07/11/22
DESIGNED BY: JUSTIN SMITH
DRAWN BY: DAVID LOPEZ
CHECKED BY: NATE SCHREINER
APPROVED BY: JASON L. FUSSEL

• THIS PLAN WAS ELECTRONICALLY SIGNED AND STAMPED •

REGISTERED PROFESSIONAL ENGINEER — JUSTIN T. SMITH — No. 85736 — EXP: 9-30-22 — CIVIL — STATE OF CALIFORNIA

NO. | REVISIONS: | DATE: | BY:

INDEX NO.

BUILDING NO.

ENGINEERING — CITY OF LOS ANGELES

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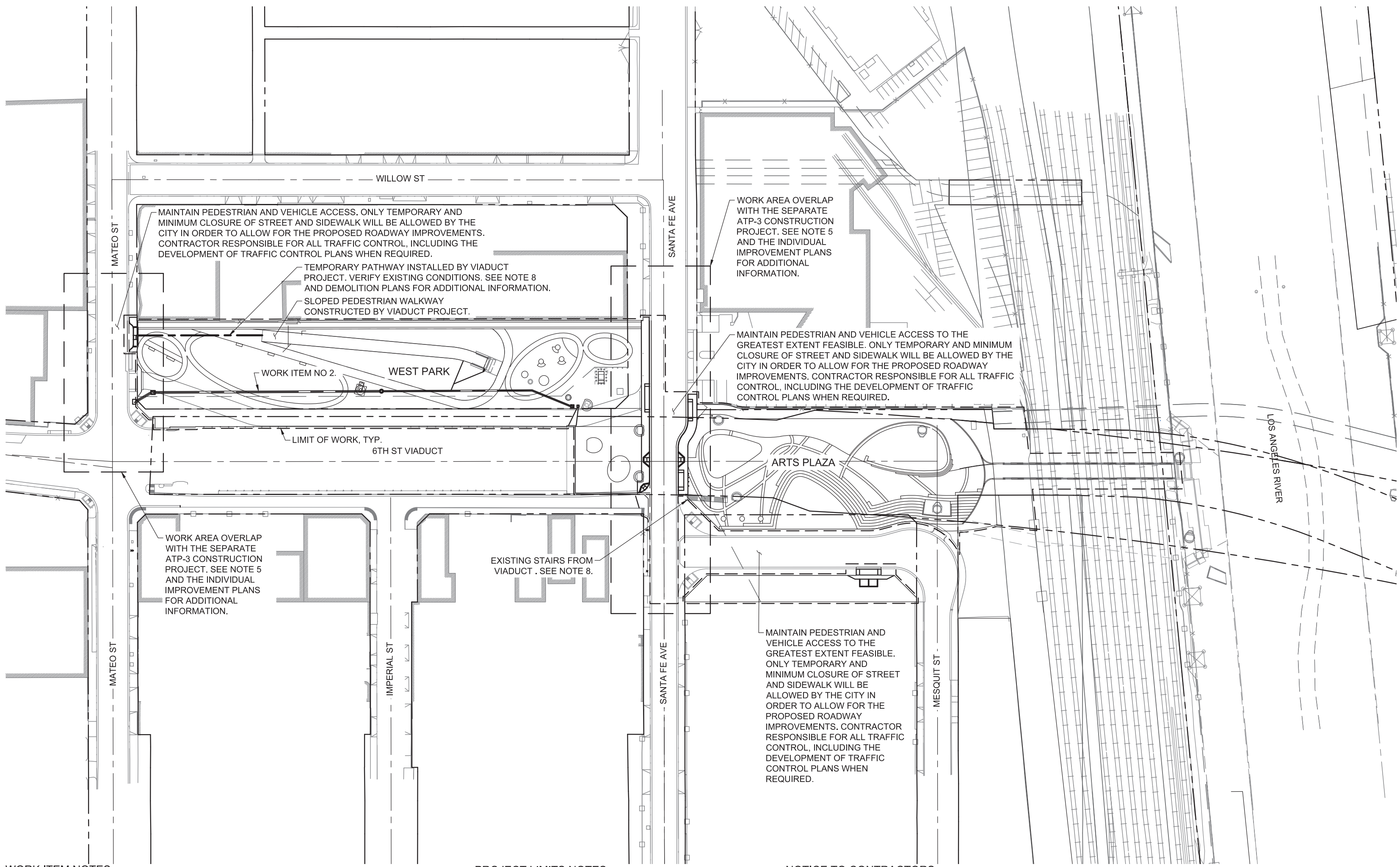


WORK ITEM NOTES

WORK ITEM 1:

WORK ITEM 1 SHALL INCLUDE IMPLEMENTATION OF THE PROJECT REMEDIAL ACTION PLAN WITHIN THE PROJECT AREAS. SEE SPECIFICATIONS FOR ADDITIONAL INFORMATION.

WORK ITEM 2:

WORK ITEM 2 SHALL INCLUDE THE CONSTRUCTION OF ALL MAINLINE STORM DRAIN SYSTEMS CONNECTING TO THE SIXTH STREET VIADUCT DRAINAGE OUTLETS, SEE PLANS FOR ADDITIONAL INFORMATION.

WORK ITEM 3:

WORK ITEM 3 SHALL INCLUDE THE CONSTRUCTION OF ALL REMAINING PARC IMPROVEMENTS, EXCEPT FOR THE STREET IMPROVEMENT AREAS.

WORK ITEM 4:

WORK ITEM 4 SHALL INCLUDE THE CONSTRUCTION OF ALL PARC STREET IMPROVEMENTS ALONG MATEO STREET, SANTA FE AVENUE, MISSION ROAD, ANDERSON STREET, AND CLARENCE STREET. THIS WORK SHALL BE PERFORMED AFTER COMPLETION OF THE ADJACENT INTERIOR PARK IMPROVEMENTS. WORK SHALL ALSO FALL OUTSIDE OF ANY APPLICABLE ONE-YEAR STREET WORK MORATORIUMS FOR THE WORK AREAS.

PROJECT LIMITS NOTES

PROJECT LIMIT LINE IS AN OFFSET FOR CLARITY PURPOSES. CURBS AND GUTTERS ALONG THE PROJECT LIMITS SHALL BE PROTECTED IN PLACE UNLESS NOTED OTHERWISE ON DEMOLITION PLANS.

NOTICE TO CONTRACTORS

1. CONTRACTOR SHALL USE EXISTING DRIVEWAY CUTS ALONG MATEO ST, SANTA FE AVE, MISSION RD, ANDERSON ST, AND CLARENCE ST FOR ACCESS AND/OR AS APPROVED BY THE CITY.
2. CONTRACTOR IS RESTRICTED FROM ALL AREAS OUTSIDE OF THE PROJECT LIMITS EXCEPT AS SHOWN ON THE CONTRACT DRAWINGS.
3. CONTRACTOR SHALL PREPARE AN ACCESS PLAN PRIOR TO THE PLACEMENT OF ANY CONSTRUCTION FENCE, FOR REVIEW AND APPROVAL BY THE CITY. IF DURING CONSTRUCTION THE CONSTRUCTION FENCE IS REQUIRED TO BE MOVED, A REVISED PLAN SHALL BE SUBMITTED TO THE CITY FOR REVIEW AND APPROVAL.
4. CONTRACTOR SHALL MAINTAIN ACCESS TO THE EXISTING BUSINESSES. THE STREET MAY ONLY BE CLOSED FOR THE SHORT PERIOD REQUIRED TO CONSTRUCT THE STREET IMPROVEMENTS OR AS APPROVED BY THE CITY.
5. THE SEPARATE ATP-2 AND ATP-3 CONSTRUCTION PROJECTS WILL BE ACTIVE DURING THE TIME OF PARC CONSTRUCTION. THE PARC CONTRACTOR SHALL COORDINATE CONSTRUCTION ACTIVITIES UNDER THE CONTRACT WITH EACH PROJECT'S GENERAL CONTRACTOR TO ENSURE NO INTERRUPTION OF WORK AND SO AS NOT TO CREATE CONFLICT AND/OR ADDITIONAL WORK TO EITHER OR BOTH PARTIES. SUBMITTAL FOR REVIEW AND APPROVAL OF THE CITY REQUIRED. REFER TO PLANS FOR OVERLAPPING WORK AREAS.
6. CONTRACTOR SHALL LIMIT PARKING RESTRICTIONS ALONG THE STREETS TO THE GREATEST EXTENT FEASIBLE.
7. WORK ADJACENT TO AND PARALLEL TO THE RAILROAD TRACKS WILL REQUIRE COORDINATION WITH METRO OR APPROPRIATE AGENCY. FLAG MEN MAY BE REQUIRED DURING GRADING OPERATIONS AND OTHER WORK DEEMED BY METRO OF HAVING A POSSIBILITY TO FOUL THE TRACKS. REFER TO PROJECT SPECIFICATIONS FOR ADDITIONAL INFORMATION.
8. CONTRACTOR SHALL MAINTAIN ACCESS TO THE VIADUCT RAMP AND STAIRS WEST OF THE LOS ANGELES RIVER AT ALL TIMES. CONTRACTOR TO MAINTAIN AND RELOCATE AS NECESSARY A 5' MINIMUM WIDE TEMPORARY AC PATHWAY BETWEEN THE RAMP/STAIRS AND THE NEAREST ROADWAY SIDEWALK. THE CROSS-SLOPE OF THE TEMPORARY PATHWAY SHALL NOT EXCEED 2% AND THE LONGITUDINAL SLOPE SHALL NOT EXCEED 5%.

REVISION DATES (DESIGN STAGE ONLY)

Sheet Version 3.0

PLANS PREPARED BY:

TETRA TECH, INC.
707 WILSHIRE BLVD. 23RD FLR.
LOS ANGELES, CA 90017
PHONE: (213) 239-8866

CITY OF LOS ANGELES — DEPARTMENT OF PUBLIC WORKS — BUREAU OF ENGINEERING

VERT. CONTROL: BM 12-04070, 1929 (NGVD29) • 1985 ADJUSTMENT
HORIZ. CONTROL: GPS: PID AE 1704, EPOCH 1991.35

SHEET TITLE: OVERALL CONSTRUCTION SEQUENCE PLAN SHEET 1

PROJECT: SIXTH STREET PARK, ARTS AND RIVER CONNECTIVITY IMPROVEMENTS (PARC)

ADDRESS: SIXTH STREET OVER THE LOS ANGELES RIVER

GARY LEE MOORE, P.E., ENV SP — CITY ENGINEER

DESIGN GROUP — DATE

ENGINEER: JUSTIN SMITH — LIC. NO. C-85736 — 07/11/22
DESIGNED BY: JUSTIN SMITH
DRAWN BY: DAVID LOPEZ
CHECKED BY: NATE SCHREINER
APPROVED BY: JASON L. FUSSEL

THIS PLAN WAS ELECTRONICALLY SIGNED AND STAMPED.

REGISTERED PROFESSIONAL ENGINEER — JUSTIN T. SMITH — No. 85736 — EXP. 9-30-22 — CIVIL — STATE OF CALIFORNIA

NO. | REVISIONS | DATE | BY

INDEX NO.

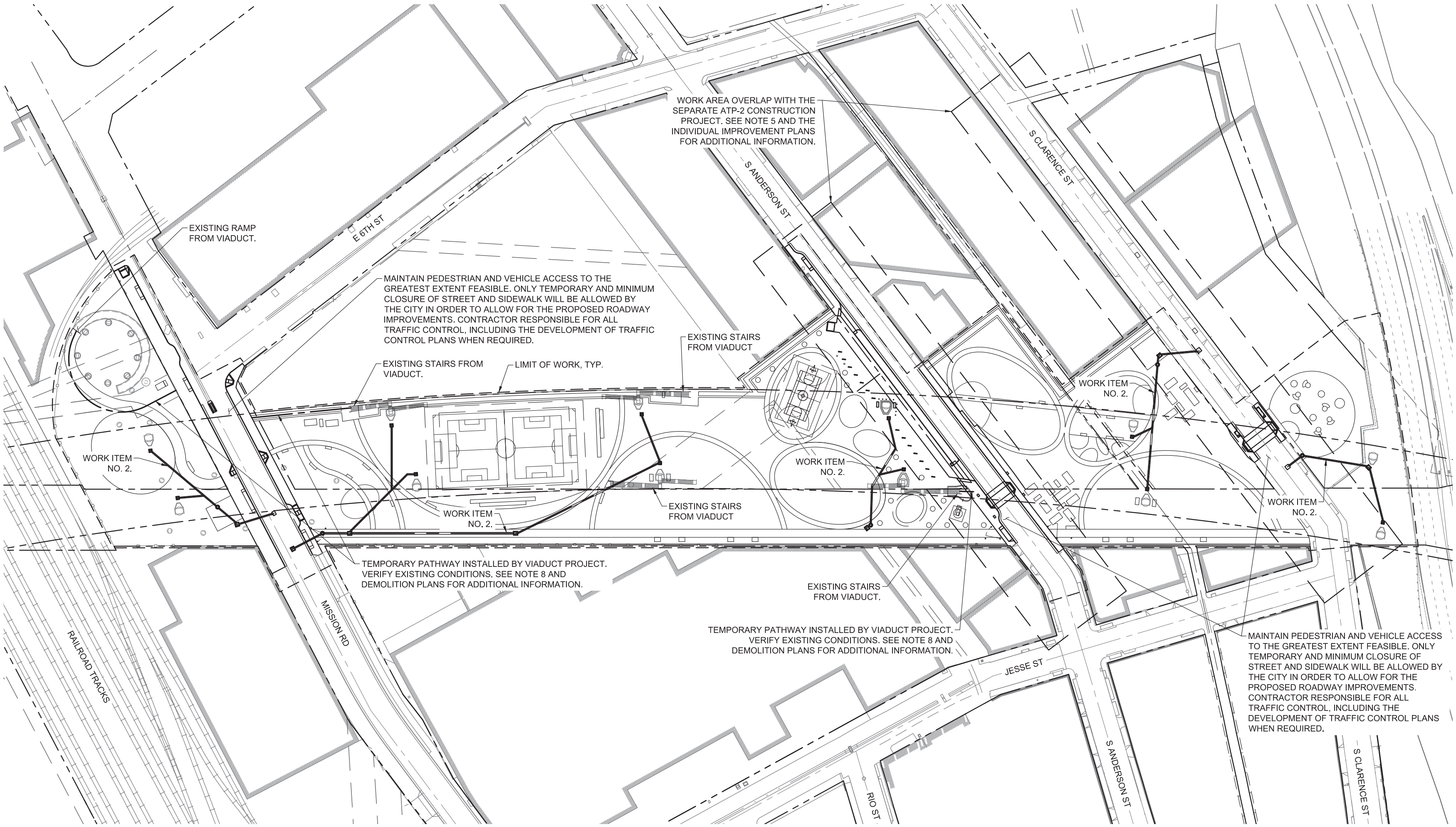
BUILDING NO.

ENGINEERING — CITY OF LOS ANGELES

WORK ORDER NO. E700235D
FILE NO. --
DRAWING NO. G-009
SHEET 9 OF 295 SHEETS

7/8/2022 12:12:02 AM - O:\PROJECTS\IRVINE\20043\200-20043-17001\CAD\SHEETFILES\G-009_CONSTRUCTION SEQUENCE PLAN - TT.DWG - SMITH, JUSTIN

BID SET - NOT FOR CONSTRUCTION



WORK ITEM NOTES

WORK ITEM 1:

WORK ITEM 1 SHALL INCLUDE IMPLEMENTATION OF THE PROJECT REMEDIAL ACTION PLAN WITHIN THE PROJECT AREAS. SEE SPECIFICATIONS FOR ADDITIONAL INFORMATION.

WORK ITEM 2:

WORK ITEM 2 SHALL INCLUDE THE CONSTRUCTION OF ALL MAINLINE STORM DRAIN SYSTEMS CONNECTING TO THE SIXTH STREET VIADUCT DRAINAGE OUTLETS. SEE PLANS FOR ADDITIONAL INFORMATION.

WORK ITEM 3:

WORK ITEM 3 SHALL INCLUDE THE CONSTRUCTION OF ALL REMAINING PARC IMPROVEMENTS, EXCEPT FOR THE STREET IMPROVEMENT AREAS.

WORK ITEM 4:

WORK ITEM 4 SHALL INCLUDE THE CONSTRUCTION OF ALL PARC STREET IMPROVEMENTS ALONG MATEO STREET, SANTA FE AVENUE, MISSION ROAD, ANDERSON STREET, AND CLARENCE STREET. THIS WORK SHALL BE PERFORMED AFTER COMPLETION OF THE ADJACENT INTERIOR PARK IMPROVEMENTS. WORK SHALL ALSO FALL OUTSIDE OF ANY APPLICABLE ONE-YEAR STREET WORK MORATORIUMS FOR THE WORK AREAS.

PROJECT LIMITS NOTES

PROJECT LIMIT LINE IS AN OFFSET FOR CLARITY PURPOSES. CURBS AND GUTTERS ALONG THE PROJECT LIMITS SHALL BE PROTECTED IN PLACE UNLESS NOTED OTHERWISE ON DEMOLITION PLANS.

NOTICE TO CONTRACTORS

1. CONTRACTOR SHALL USE EXISTING DRIVEWAY CUTS ALONG MATEO ST, SANTA FE AVE, MISSION RD, ANDERSON ST, AND CLARENCE ST FOR ACCESS AND/OR AS APPROVED BY THE CITY.
2. CONTRACTOR IS RESTRICTED FROM ALL AREAS OUTSIDE OF THE PROJECT LIMITS EXCEPT AS SHOWN ON THE CONTRACT DRAWINGS.
3. CONTRACTOR SHALL PREPARE AN ACCESS PLAN PRIOR TO THE PLACEMENT OF ANY CONSTRUCTION FENCE, FOR REVIEW AND APPROVAL BY THE CITY. IF DURING CONSTRUCTION THE CONSTRUCTION FENCE IS REQUIRED TO BE MOVED, A REVISED PLAN SHALL BE SUBMITTED TO THE CITY FOR REVIEW AND APPROVAL.
4. CONTRACTOR SHALL MAINTAIN ACCESS TO THE EXISTING BUSINESSES. THE STREET MAY ONLY BE CLOSED FOR THE SHORT PERIOD REQUIRED TO CONSTRUCT THE STREET IMPROVEMENTS OR AS APPROVED BY THE CITY.
5. THE SEPARATE ATP-2 AND ATP-3 CONSTRUCTION PROJECTS WILL BE ACTIVE DURING THE TIME OF PARC CONSTRUCTION. THE PARC CONTRACTOR SHALL COORDINATE CONSTRUCTION ACTIVITIES UNDER THE CONTRACT WITH EACH PROJECT'S GENERAL CONTRACTOR TO ENSURE NO INTERRUPTION OF WORK AND SO AS NOT TO CREATE CONFLICT AND/OR ADDITIONAL WORK TO EITHER OR BOTH PARTIES. SUBMITTAL FOR REVIEW AND APPROVAL OF THE CITY REQUIRED. REFER TO PLANS FOR OVERLAPPING WORK AREAS.
6. CONTRACTOR SHALL LIMIT PARKING RESTRICTIONS ALONG THE STREETS TO THE GREATEST EXTENT FEASIBLE.
7. WORK ADJACENT TO AND PARALLEL TO THE RAILROAD TRACKS WILL REQUIRE COORDINATION WITH METRO OR APPROPRIATE AGENCY. FLAG MEN MAY BE REQUIRED DURING GRADING OPERATIONS AND OTHER WORK DEEMED BY METRO OF HAVING A POSSIBILITY TO FOUL THE TRACKS. REFER TO PROJECT SPECIFICATIONS FOR ADDITIONAL INFORMATION.
8. CONTRACTOR SHALL MAINTAIN ACCESS TO THE VIADUCT RAMP AND STAIRS INDICATED ABOVE EAST OF THE LOS ANGELES RIVER AT ALL TIMES. CONTRACTOR TO MAINTAIN AND RELOCATE AS NECESSARY A 5' MINIMUM WIDE TEMPORARY AC PATHWAY BETWEEN THE RAMP/STAIRS AND THE NEAREST ROADWAY SIDEWALK. THE CROSS-SLOPE OF THE TEMPORARY PATHWAY SHALL NOT EXCEED 2% AND THE LONGITUDINAL SLOPE SHALL NOT EXCEED 5%.

SCALE: 1"=60' (0, 30, 60, 120)

PLANS PREPARED BY:
TETRA TECH, INC.
707 WILSHIRE BLVD, 23RD FLR.
LOS ANGELES, CA 90017
PHONE: (213) 239-8866

CITY OF LOS ANGELES — DEPARTMENT OF PUBLIC WORKS — BUREAU OF ENGINEERING

VERT. CONTROL: BM 12-04070, 1929 (NGVD29) • 1985 ADJUSTMENT
HORIZ. CONTROL: GPS; PID AE 1704, EPOCH 1991.35

SHEET TITLE: OVERALL CONSTRUCTION SEQUENCE PLAN SHEET 2
PROJECT: SIXTH STREET PARK, ARTS AND RIVER CONNECTIVITY IMPROVEMENTS (PARC)
ADDRESS: SIXTH STREET OVER THE LOS ANGELES RIVER

GARY LEE MOORE, P.E., ENV SP — CITY ENGINEER
DESIGN GROUP
ENGINEER: JUSTIN SMITH — LIC. NO. C-85736 — DATE: 07/11/22
DESIGNED BY: JUSTIN SMITH
DRAWN BY: DAVID LOPEZ
CHECKED BY: NATE SCHREINER
APPROVED BY: JASON L. FUSSEL

REGISTERED PROFESSIONAL ENGINEER — JUSTIN T. SMITH — No. 85736 — EXP. 9-30-22 — CIVIL — STATE OF CALIFORNIA
THIS PLAN WAS ELECTRONICALLY SIGNED AND STAMPED.

NO.	REVISIONS:	DATE	BY:

INDEX NO.
BUILDING NO.

ENGINEERING — CITY OF LOS ANGELES

WORK ORDER NO. E700235D
FILE NO. --
DRAWING NO. G-010
SHEET 10 OF 295 SHEETS

REVISION DATES (DESIGN STAGE ONLY)

Sheet Version 3.0

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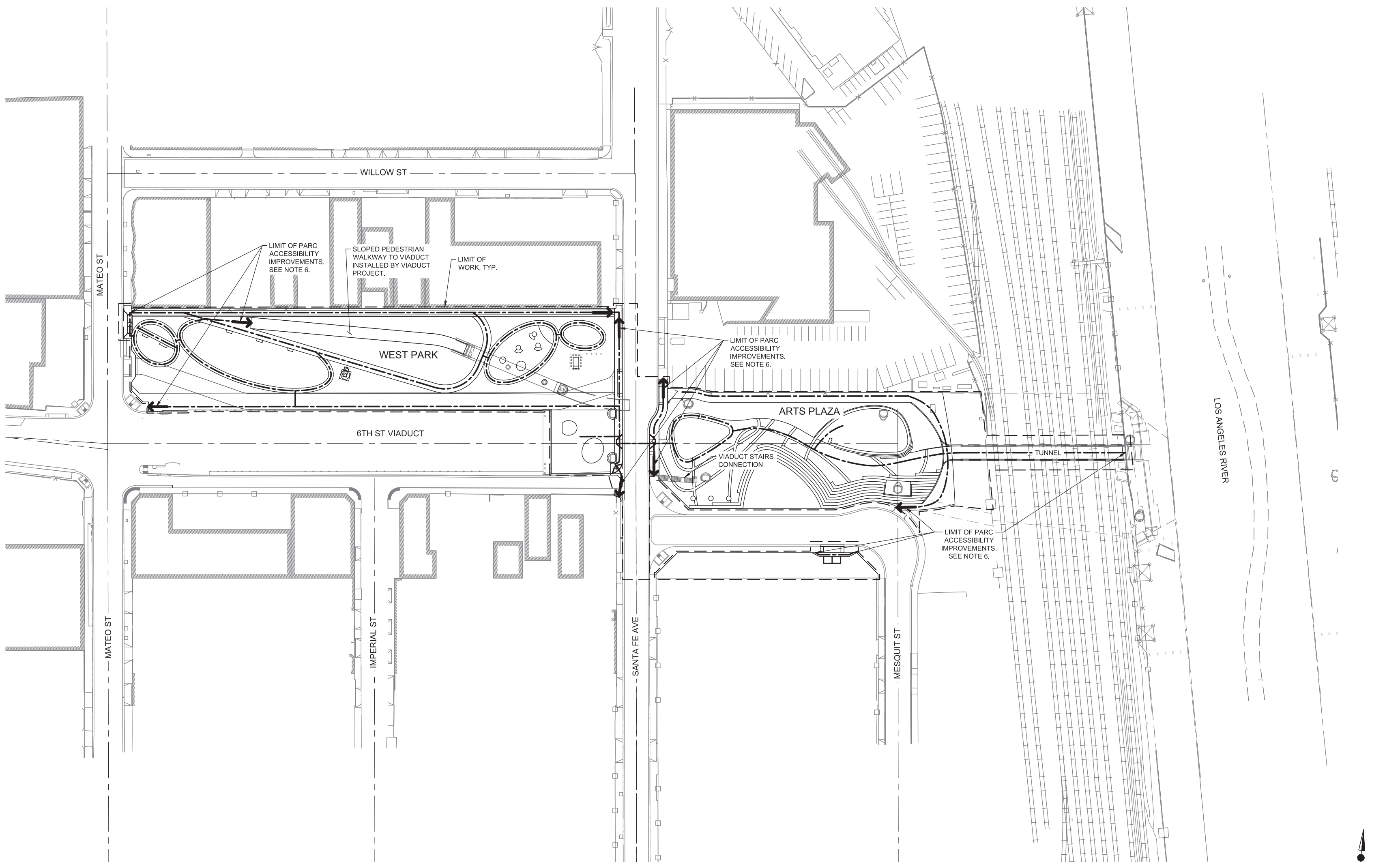

LEGEND

—·—·— PRIMARY ADA ACCESSIBLE ROUTE

NOTICE TO CONTRACTORS

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3. CONTRACTOR SHALL LIMIT PARKING RESTRICTIONS ALONG THE STREETS TO THE GREATEST EXTENT FEASIBLE.
4. CONTRACTOR SHALL MAINTAIN THE EXISTING PEDESTRIAN ACCESS ALONG THE STREET SIDEWALKS TO THE GREATEST EXTENT FEASIBLE. ONLY TEMPORARY AND MINIMUM CLOSURE OF SIDEWALK WILL BE ALLOWED BY THE CITY. IF EXTENDED CLOSURE IS REQUIRED, THE CONTRACTOR SHALL PROVIDE A TEMPORARY PEDESTRIAN WALKWAY AROUND THE WORK AREA USING TEMPORARY AC PAVEMENT.
5. SEE SHEET G-009 AND G-010 REGARDING MAINTAINING ACCESS TO THE VIADUCT RAMPS AND STAIRS.
6. EXISTING IMPROVEMENTS OUTSIDE OF THE PROJECT LIMITS MAY NOT BE ADA ACCESSIBLE. WHERE PROPOSED IMPROVEMENTS ARE TO CONNECT TO EXISTING IMPROVEMENTS THAT ARE NOT ADA COMPLIANT, A SIDEWALK PANEL, 4' MIN. IN LENGTH, SHALL BE RECONSTRUCTED TO TRANSITION FROM THE PROPOSED ADA COMPLIANT SLOPES TO THE EXISTING NON-COMPLIANT SLOPES.

PLANS PREPARED BY:
TETRA TECH, INC.
707 WILSHIRE BLVD, 23RD FLR.
LOS ANGELES, CA 90017
PHONE: (213) 239-8866

CITY OF LOS ANGELES — DEPARTMENT OF PUBLIC WORKS — BUREAU OF ENGINEERING

VERT. CONTROL: BM 12-04070, 1929 (NGVD29) - 1985 ADJUSTMENT
HORIZ. CONTROL: GPS; PID AE 1704, EPOCH 1991.35

SHEET TITLE: ACCESSIBILITY PLAN SHEET 1
PROJECT: SIXTH STREET PARK, ARTS AND RIVER CONNECTIVITY IMPROVEMENTS (PARC)
ADDRESS: SIXTH STREET OVER THE LOS ANGELES RIVER

GARY LEE MOORE, P.E., ENV SP — CITY ENGINEER
DESIGN GROUP — DATE:
ENGINEER: JUSTIN SMITH — LIC. NO. C-85736 — 07/11/22
DESIGNED BY: JUSTIN SMITH
DRAWN BY: DAVID LOPEZ
CHECKED BY: NATE SCHREINER
APPROVED BY: JASON L. FUSSEL

THIS PLAN WAS ELECTRONICALLY SIGNED AND STAMPED.
REGISTERED PROFESSIONAL ENGINEER — JUSTIN T. SMITH — No. 85736 — EXP: 9-30-22 — CIVIL — STATE OF CALIFORNIA

NO.	REVISIONS:	DATE:	BY:

INDEX NO.
BUILDING NO.

ENGINEERING — CITY OF LOS ANGELES

WORK ORDER NO. E700235D
FILE NO. --
DRAWING NO. G-011
SHEET 11 OF 295 SHEETS

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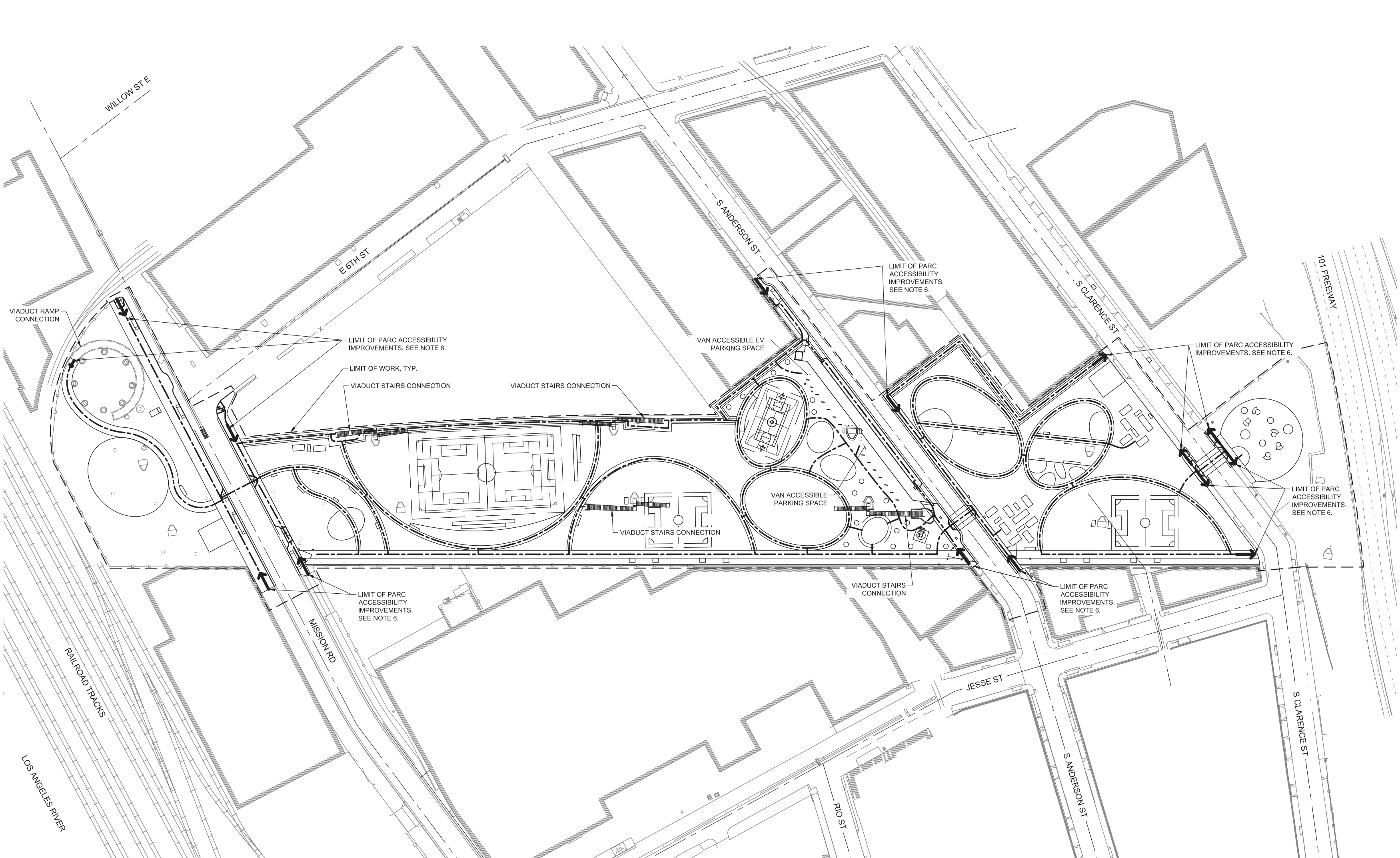

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LEGEND

— - — PRIMARY ADA ACCESSIBLE ROUTE

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VERT. CONTROL: BM 12-04070, 1929 (NGVD29) + 1985 ADJUSTMENT
HORIZ. CONTROL: GPS; PID AE 1704, EPOCH 1991.35

SHEET TITLE: ACCESSIBILITY PLAN SHEET 2
PROJECT: SIXTH STREET PARK, ARTS AND RIVER CONNECTIVITY IMPROVEMENTS (PARC)
ADDRESS: SIXTH STREET OVER THE LOS ANGELES RIVER

GARY LEE MOORE, P.E., ENV SP — CITY ENGINEER
DESIGN GROUP — DATE:
ENGINEER: JUSTIN SMITH — LIC. NO. C-85736 — 07/11/22
DESIGNED BY: JUSTIN SMITH
DRAWN BY: DAVID LOPEZ
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REGISTERED PROFESSIONAL ENGINEER — JUSTIN T. SMITH — No. 85736 — EXP. 9-30-22 — CIVIL — STATE OF CALIFORNIA

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INDEX NO.

BUILDING NO.

ENGINEERING — CITY OF LOS ANGELES

WORK ORDER NO. E700235D
FILE NO. --
DRAWING NO. G-012
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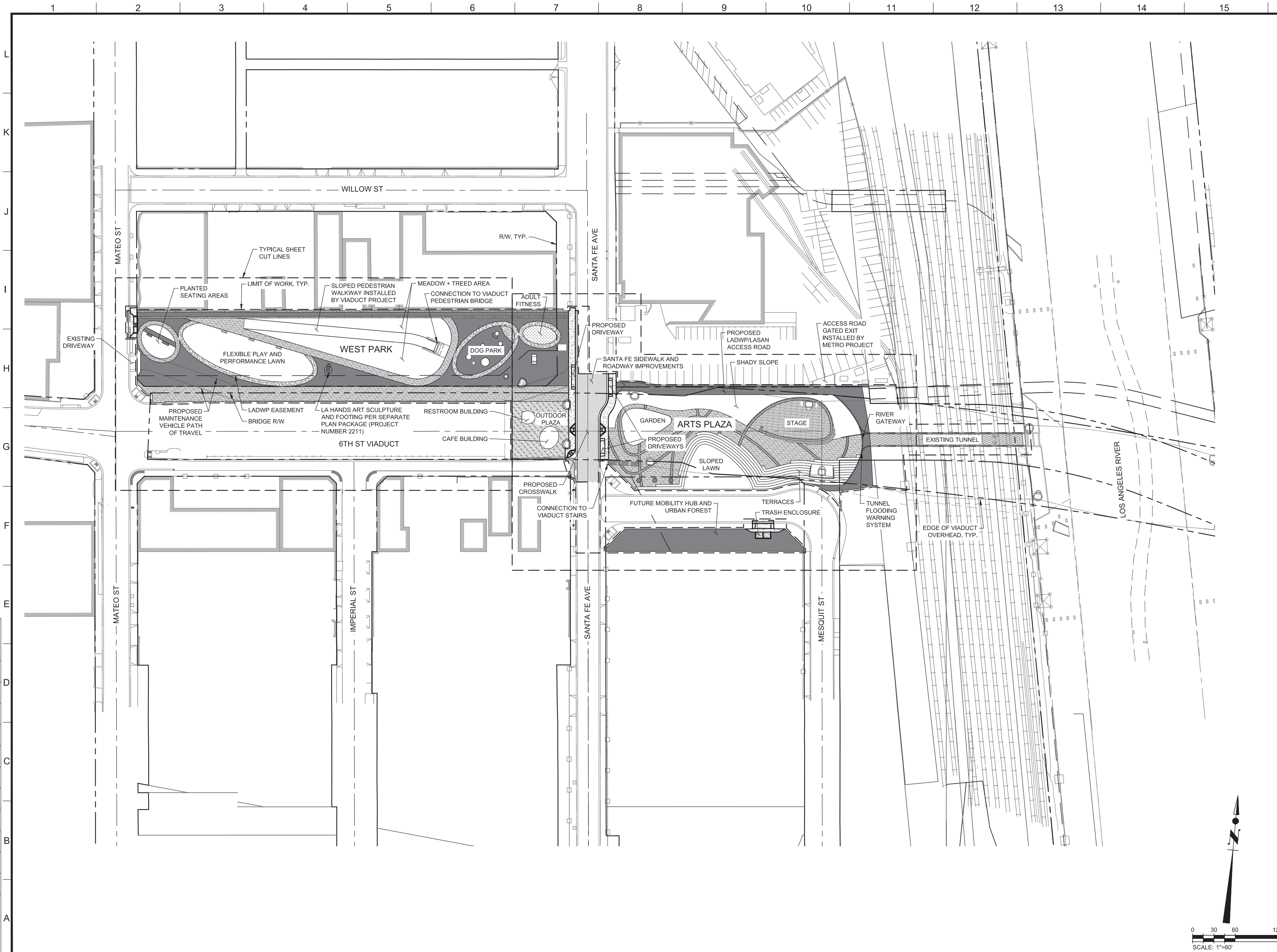

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PHONE: (213) 239-8866

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VERT. CONTROL: BM 12-04070, 1929 (NGVD29) • 1985 ADJUSTMENT
HORIZ. CONTROL: GPS; PID AE 1704, EPOCH 1991.35

SHEET TITLE: OVERALL SITE PLAN SHEET 1

PROJECT: SIXTH STREET PARK, ARTS AND RIVER CONNECTIVITY IMPROVEMENTS (PARC)

ADDRESS: SIXTH STREET OVER THE LOS ANGELES RIVER

GARY LEE MOORE, P.E., ENV SP — CITY ENGINEER

DESIGN GROUP

ENGINEER: JUSTIN SMITH — LIC. NO. C-85736 — DATE: 07/11/22
DESIGNED BY: JUSTIN SMITH
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REGISTERED PROFESSIONAL ENGINEER — JUSTIN T. SMITH — No. 85736 — EXP. 9-30-22 — CIVIL — STATE OF CALIFORNIA

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BUILDING NO.

ENGINEERING — CITY OF LOS ANGELES

WORK ORDER NO. E700235D
FILE NO. --
DRAWING NO. G-013
SHEET 13 OF 295 SHEETS

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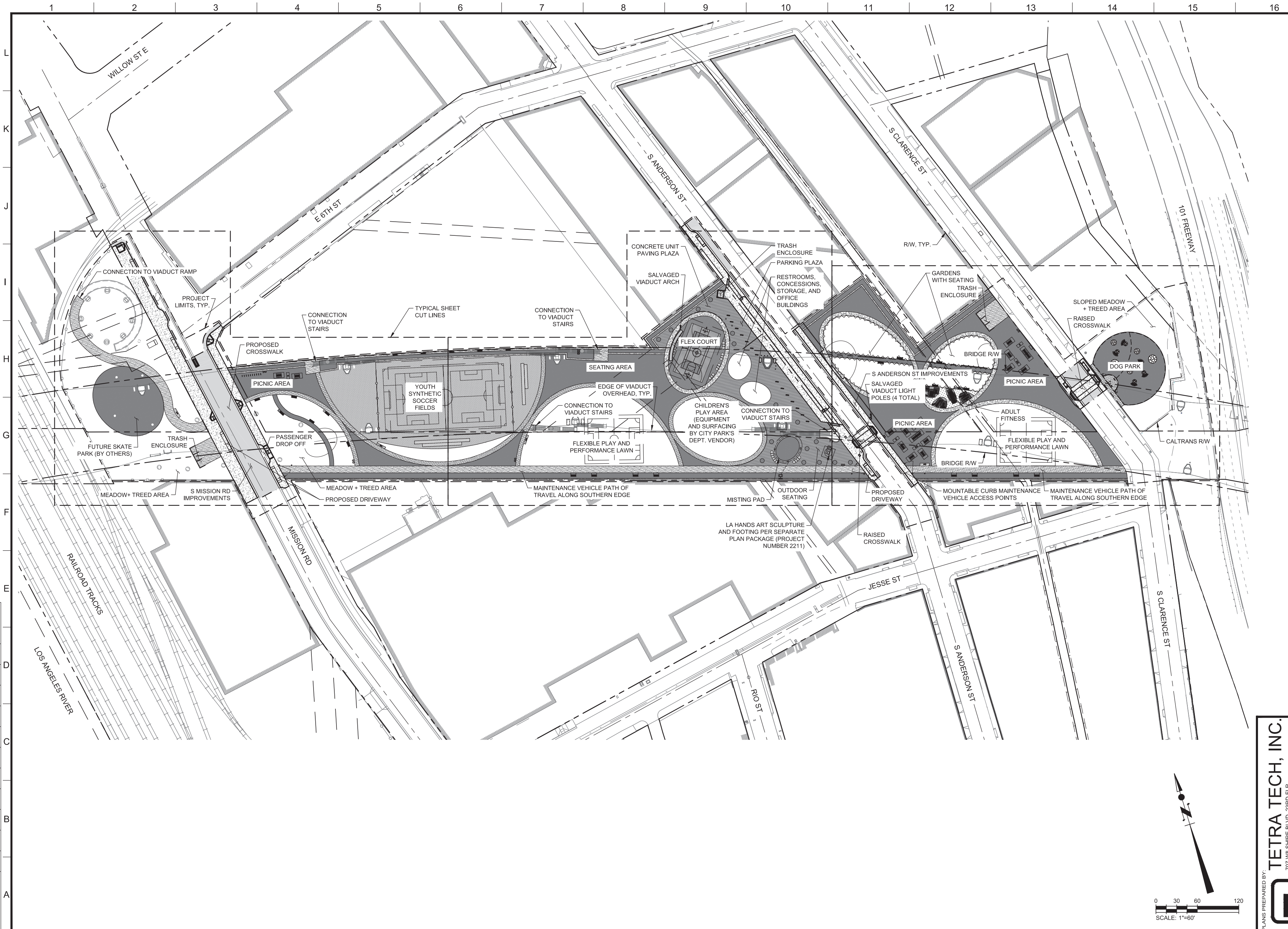

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CITY OF LOS ANGELES — DEPARTMENT OF PUBLIC WORKS — BUREAU OF ENGINEERING

VERT. CONTROL: BM 12-04070, 1929 (NGVD29) • 1985 ADJUSTMENT
HORIZ. CONTROL: GPS; PID AE 1704, EPOCH 1991.35

SHEET TITLE: OVERALL SITE PLAN SHEET 2
PROJECT: SIXTH STREET PARK, ARTS AND RIVER CONNECTIVITY IMPROVEMENTS (PARC)
ADDRESS: SIXTH STREET OVER THE LOS ANGELES RIVER

GARY LEE MOORE, P.E., ENV SP — CITY ENGINEER
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ENGINEERING — CITY OF LOS ANGELES

WORK ORDER NO. E700235D
FILE NO. --
DRAWING NO. G-014
SHEET 14 OF 295 SHEETS

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LEGEND

- SAWCUT
- FENCE
- LIMIT OF WORK
- PROPERTY / BOUNDARY LINE
- EASEMENT BOUNDARY LINE
- 300 — PROPOSED MAJOR CONTOUR LINE
- 301 — PROPOSED MINOR CONTOUR LINE
- (300) — EXISTING MAJOR CONTOUR LINE
- (301) — EXISTING MINOR CONTOUR LINE
- X — EXISTING FENCE
- S — EXISTING SANITARY SEWER
- W — EXISTING WATER LINE
- EXISTING STORM DRAIN
- G — EXISTING GAS LINE
- T — EXISTING UNDERGROUND/OVERHEAD TELECOMMUNICATIONS LINE
- O — EXISTING OIL LINE
- OHS — EXISTING OVERHEAD ELECTRICAL
- E — EXISTING UNDERGROUND ELECTRICAL
- W — PROPOSED WATER LINE
- SS — PROPOSED SANITARY SEWER LINE
- PROPOSED STORM DRAIN MAIN LINE (Ø ≥ 18")
- SD — PROPOSED STORM DRAIN LATERAL (Ø ≤ 18")

- EXISTING - PROTECT IN PLACE
- REMOVE
- CONSTRUCT
- REMOVE & CONSTRUCT
- WORK BY OTHERS

- (E) MAINTENANCE HOLE
- (E) SEWER MAINTENANCE HOLE
- (E) STORM DRAIN MAINTENANCE HOLE
- (E) POWER MAINTENANCE HOLE
- (E) TELEPHONE MAINTENANCE HOLE
- (E) SEWER LAMP HOLE
- (E) MAINTENANCE HOLE LARGE
- (E) TRAFFIC SIGNAL PULLBOX
- (E) ELECTRIC PULLBOX
- (E) PULLBOX
- (E) WATER METER
- (E) GAS VALVE
- (E) WATER VALVE
- (E) TELEVISION PULLBOX
- (E) IRRIGATION CTRL BOX
- (E) LIGHT STANDARD
- (E) TRAFFIC STANDARD
- (E) LIGHT & TRAFFIC STANDARD
- (E) PARKING METER
- (E) VENT
- (E) SIGN
- (E) FIRE HYDRANT
- (E) GUARD POST
- (E) POWER POLE
- (E) GUY WIRE
- (E) CLEAN OUT
- FF (E) FINISH FLOOR
- (E) MONITORING POINT
- (E) MONITORING STATION
- (E) MONITORING WELL
- (E) SHRUB
- (E) SPRINKLER
- (E) GAS METER
- (E) STAND PIPE
- (E) BOREHOLE
- (E) NEWS STAND
- (E) MAIL BOX
- (E) DRINKING FOUNTAIN
- (E) PHONE
- (E) TREE
- (E) PALM TREE

- STREET IMPROVEMENT AC PAVEMENT. DETAIL REFERENCE PER PLAN.
- STREET IMPROVEMENT PORTLAND CEMENT CONCRETE PAVEMENT/SIDEWALK. DETAIL REFERENCE PER PLAN.

- PVMT 1 - STONE UNIT PAVERS - DTL 1, SHT C-609
- PVMT 2 A/B - CIP CONCRETE - DTL 2, SHT C-609
- PVMT 3 - CIP CONCRETE - DTL 3, SHT C-609
- PVMT 4 - COATED CONCRETE - DTL 3, SHT C-609
- PVMT 5 - CONCRETE UNIT PAVERS - DTL 4, SHT C-609
- PVMT 6 A/B - CRUSHED STONE - DTL 5, SHT C-609
- PVMT 7 - CRUSHED STONE ADMIXTURE - DTL 5, SHT C-609
- PVMT 8 - TUNNEL RESURFACING - DTL 9, SHT C-601
- PVMT 9 A/B - COATED ASPHALT - DTL 6, SHT C-609
- PVMT 10 A/B - SAFETY SURFACING - DTL 7, SHT C-609
- PVMT 11 - SYNTHETIC GRASS - DTL 1, SHT C-601

STANDARD PLANS FOR THIS PROJECT

WITH EXCEPTION TO THE APWA PWC STANDARD PLANS, A COPY OF THE LISTED STANDARD PLANS HAVE BEEN INCLUDED AS AN ATTACHMENT IN THE SPECIFICATIONS.

APWA STANDARD PLANS FOR PUBLIC WORKS CONSTRUCTION (PWC) - SOUTHERN CALIFORNIA CHAPTER

NUMBER	ITEM
112-2	CURB AND SIDEWALK JOINTS
300-4	CURB OPENING CATCH BASIN
303-4	CURBSIDE GRATING CATCH BASIN
304-4	GRATING CATCH BASIN - ALLEY (LONGITUDINAL)
308-3	MONOLITHIC CATCH BASIN CONNECTION
309-3	CATCH BASIN REINFORCEMENT
310-4	CATCH BASIN FACE PLATE ASSEMBLY AND PROTECTION BAR
311-4	FRAME AND GRATING FOR CATCH BASINS
312-5	CATCH BASIN MANHOLE FRAME AND COVER
313-4	LOCAL DEPRESSIONS AT CATCH BASINS
314-3	MODIFICATIONS FOR SIDE OPENING CATCH-BASIN
324-2	MANHOLE SHAFT - WITH ECCENTRIC REDUCER
331-3	JUNCTION STRUCTURE - PIPE TO PIPE
332-2	JUNCTION STRUCTURE - PIPE TO PIPE
335-2	PIPE CONNECTIONS TO EXISTING STORM DRAINS
615-4	REINFORCED CONCRETE RETAINING WALL TYPE 6
617-3	REINFORCED CONCRETE RETAINING WALL DETAILS
635-3	STEEL STEP

CITY OF LOS ANGELES - BUREAU OF ENGINEERING STANDARD PLAN

NUMBER	ITEM
S-110-1	HOUSE CONNECTION SEWERS
S-137-1	ADJUSTING SEWER MAINTENANCE HOLES TO GRADE
S-164-0	TERMINAL CLEANOUT STRUCTURE "Y"
S-241-0	REINFORCED CONCRETE PIPE
S-251-1	PIPE LAYING IN TRENCHES
S-253-0	SUPPORTS FOR STORM DRAIN AND SEWER PIPE ACROSS TENCHES
S-255-1	BLANKET PROTECTION FOR PIPES
S-281-3	MAINTENANCE HOLE FRAME AND COVER 24-INCH
S-300-1	JUNCTION STRUCTURE "A"
S-322-2	SIDEWALK CULVERT WITH STEEL PLATE TOP
S-355-0	ALLEY GRATING CATCH BASIN
S-361-0	CATCH BASIN NO,61-PRECAST
S-381-0	MANHOLE "EZ"
S-410-2	TYPES OF CURB AND GUTTER
S-432-1	STANDARD STREET CROWN SECTIONS
S-440-4	DRIVEWAYS
S-442-6	CURB RAMPS
S-444-0	SIDEWALKS
S-463-3	PEDESTRIAN PIPE GUARDRAILS & HANDRAILS
S-477-2	T-TRENCH AND PAVEMENT RESTORATION - ASPHALT CONCRETE STREETS
S-601-3	HANDHOLES, MAINTENANCE HOLE COVERS AND FRAMES, DETECTABLE WARNING SURFACE, TREE WELL COVERS, PAVERS AND SIMILAR INSTALLATIONS
S-627-0	SYMBOLS FOR CONSTRUCTION NOTES
S-791-1	ADVANCE CONSTRUCTION NOTICE SIGNS
S-792-0	BUILDING CREDIT SIGNS
27983	STANDARD SADDLE CONNECTION
DETAIL 600	RAISED CROSSINGS (SUPPLEMENTAL DESIGN GUIDE)

CALTRANS STANDARD PLANS

NUMBER	ITEM
RSP B11-47	CABLE RAILING
RSP ES-5C	ELECTRICAL SYSTEMS - (ACCESSIBLE PEDESTRIAN SIGNAL AND PUSH BUTTON ASSEMBLIES)
RSP ES-6A	ELECTRICAL SYSTEMS (LIGHTING STANDARD, TYPES 15 & 21)
RSP ES-7B	ELECTRICAL SYSTEMS (SIGNAL AND LIGHTING STANDARD, TYPE 1 AND EQUIPMENT IDENTIFICATION CHARACTERS)
RSP ES-7M	ELECTRICAL SYSTEMS (SIGNAL AND LIGHTING STANDARD, DETAIL NO. 1)
RSP ES-7N	ELECTRICAL SYSTEMS (SIGNAL AND LIGHTING STANDARD, DETAIL NO. 2)

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PLANS PREPARED BY:
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PHONE: (213) 239-8866

CITY OF LOS ANGELES — DEPARTMENT OF PUBLIC WORKS — BUREAU OF ENGINEERING

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SHEET TITLE: LEGEND

PROJECT: SIXTH STREET PARK, ARTS AND RIVER CONNECTIVITY IMPROVEMENTS (PARC)
ADDRESS: SIXTH STREET OVER THE LOS ANGELES RIVER

GARY LEE MOORE, P.E., ENV SP — CITY ENGINEER
DESIGN GROUP
ENGINEER: JUSTIN SMITH LIC. NO. C-85736 DATE: 07/11/22
DESIGNED BY: JUSTIN SMITH
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REGISTERED PROFESSIONAL ENGINEER — JUSTIN T. SMITH — No. 85736 — EXP. 9-30-22 — CIVIL — STATE OF CALIFORNIA

NO. | REVISIONS | DATE | BY

INDEX NO.

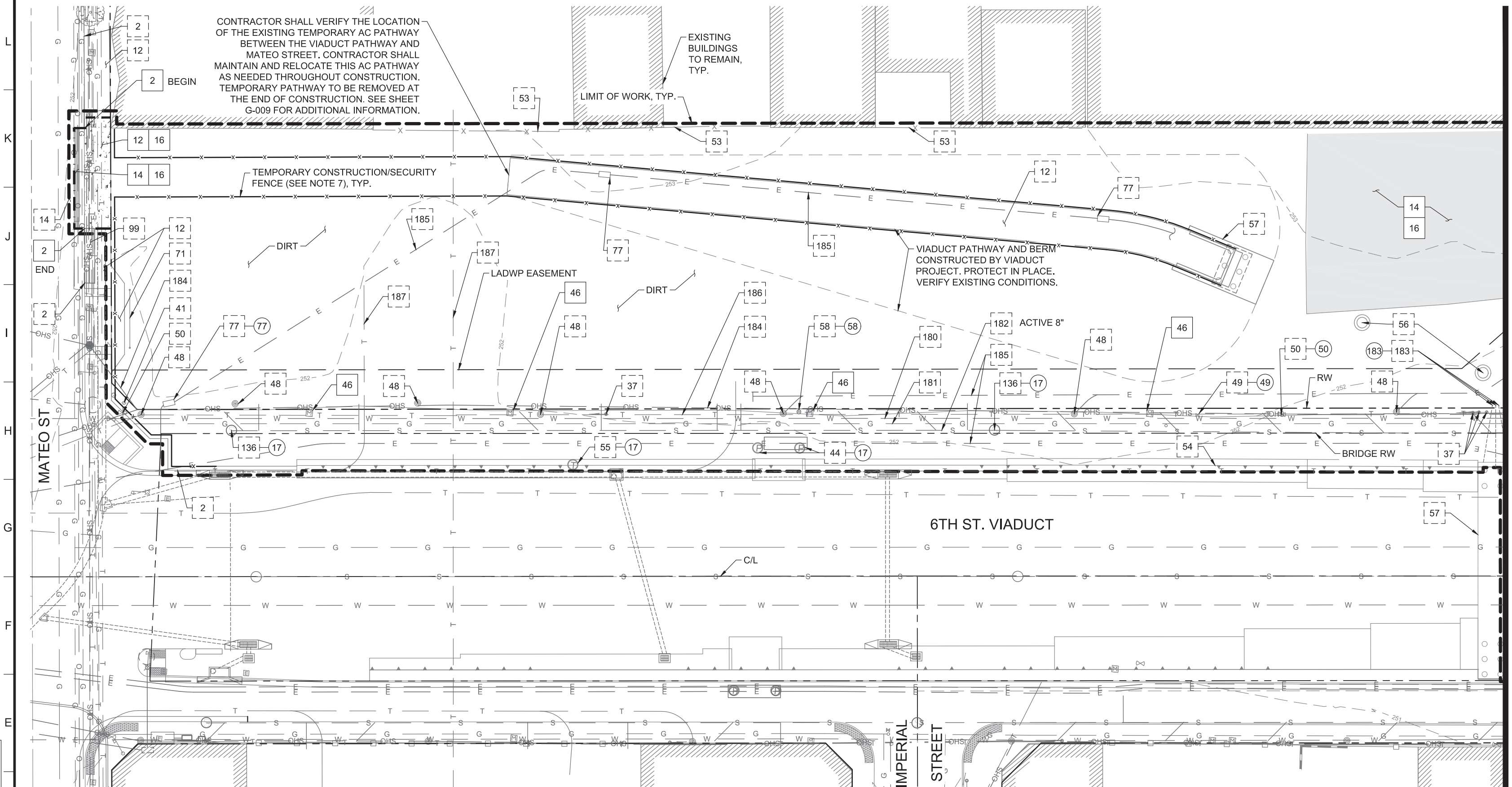
BUILDING NO.

ENGINEERING — CITY OF LOS ANGELES

WORK ORDER NO. E700235D
FILE NO. --
DRAWING NO. G-015
SHEET 15 OF 295 SHEETS

7/9/2022 6:20:54 PM - O:\PROJECTS\IRVINE\20043\200-20043-17001\CAD\SHEETFILES\G-015_LEGEND - TT.DWG - SMITH, JUSTIN

BID SET - NOT FOR CONSTRUCTION



LEGEND:

(shaded)	REMOVE EXISTING AC PAVEMENT AND BASE MATERIAL
(stippled)	REMOVE EXISTING CONCRETE
— · —	SAWCUT
— — (heavy)	LIMITS OF WORK (2' OFFSET FOR CLARITY)
— —	PROPERTY LINE
— —	EASEMENT BOUNDARY LINE
—x—x—	TEMPORARY CONSTRUCTION/ SECURITY FENCE

LEGEND OF CONSTRUCTION NOTES

CONSTRUCT / REMOVE / REMODEL & ADJUST TO GRADE / WORK BY OTHERS / EXISTING-PROTECT IN PLACE / REMOVE & RECONSTRUCT

NO.	CONSTRUCTION ITEM/NOTE	NO.	CONSTRUCTION ITEM/NOTE
2	TYPE C INTEGRAL CURB & GUTTER	56	VIADUCT BENT / COLUMN
8	CONCRETE PAVEMENT	57	VIADUCT ABUTMENT
12	CONCRETE WALK	58	MONITORING WELL
14	ASPHALT CONCRETE PAVEMENT	71	SWING GATE
16	UNTREATED BASE MATERIAL	77	ELECTRIC PULL BOX
17	ADJUST MAINTENANCE HOLE TO GRADE	85	STORM DRAIN MAINTENANCE HOLE
37	POLE ANCHOR	99	SIDE OPENING CATCH BASIN
41	FIRE HYDRANT	136	SEWER MAINTENANCE HOLE
44	DWPPS MAINTENANCE HOLE	180	EXISTING WATER LINE
46	WATER METER	181	EXISTING GAS LINE
48	POWER POLE	182	EXISTING SANITARY SEWER LINE
49	GAS VALVE	183	EXISTING STORM DRAIN LINE
50	WATER VALVE	184	EXISTING OVERHEAD POWER
53	FENCE	185	EXISTING UNDERGROUND POWER
54	RETAINING WALL	186	EXISTING OVERHEAD TELECOM
55	TELECOM MAINTENANCE HOLE	187	EXISTING UNDERGROUND TELECOM

DEMOLITION NOTES:

1. LOCATION OF EXISTING UTILITIES IS APPROXIMATE AND BASED ON RECORD DRAWINGS. ACTUAL CONDITIONS MAY VARY. CONTRACTOR TO VERIFY IN FIELD AND REPORT ANY DISCREPANCIES.
2. EXISTING UNDERGROUND UTILITIES MUST BE PROTECTED IN PLACE UNLESS NOTED OTHERWISE.
3. REFER TO PROJECT SPECIFICATIONS SECTIONS 01571, 01572, 02110, AND 02220 FOR DEMOLITION REQUIREMENTS.
4. CONTRACTOR TO REMOVE ANOMALY FOUND ONSITE AS NECESSARY.
5. CONTRACTOR SHOULD BE PREPARED TO HANDLE OVERSIZED CONCRETE MATERIAL AND BE ABLE TO BREAK SAID MATERIAL INTO SMALLER PIECES AS MAY BE NECESSARY TO REMOVE AND PROPERLY DISPOSE OF OFFSITE AT NO ADDITIONAL COST TO THE CITY.
6. FOR RELOCATIONS/ADJUSTMENTS TO GRADE, COORDINATE WITH APPLICABLE IMPROVEMENT PLANS.
7. SECURITY FENCING LAYOUT SHOWN IS THE ASSUMED LAYOUT OF FENCING LEFT IN PLACE AT THE SITE BY THE VIADUCT CONTRACTOR. THE PARC CONTRACTOR SHALL BE RESPONSIBLE FOR VERIFYING THE EXISTING CONDITIONS INCLUDING THE LOCATIONS OF ANY OPENINGS OR GATES. PARC CONTRACTOR SHALL BE RESPONSIBLE FOR MAINTAINING, SUPPLEMENTING, RELOCATING AS NEEDED FOR CONSTRUCTION ACTIVITIES, AND ULTIMATELY REMOVING THE FENCING AND ANY GATES AT THE COMPLETION OF THE PROJECT.
8. CONTRACTOR SHALL BE RESPONSIBLE FOR COORDINATING ALL UTILITY ADJUSTMENTS AND RELOCATIONS WITH THE RESPECTIVE UTILITY OWNER. CONTRACTOR SHALL BE RESPONSIBLE FOR PAYING ALL FEES.

SCALE: 1"=20'

PLANS PREPARED BY:
TETRA TECH, INC.
707 WILSHIRE BLVD. 23RD FLR.
LOS ANGELES, CA 90017
PHONE: (213) 239-8866

CITY OF LOS ANGELES — DEPARTMENT OF PUBLIC WORKS — BUREAU OF ENGINEERING

VERT. CONTROL: BM 12-04070, 1929 (NGVD29) + 1985 ADJUSTMENT
HORIZ. CONTROL: GPS; PID AE 1704, EPOCH 1991.35

SHEET TITLE: DEMOLITION PLAN SHEET 1
PROJECT: SIXTH STREET PARK, ARTS AND RIVER CONNECTIVITY IMPROVEMENTS (PARC)
ADDRESS: SIXTH STREET OVER THE LOS ANGELES RIVER

GARY LEE MOORE, P.E., ENV SP — CITY ENGINEER
DESIGN GROUP
ENGINEER: JUSTIN SMITH — LIC. NO. C-85736 — DATE: 07/11/22
DESIGNED BY: JUSTIN SMITH
DRAWN BY: DAVID LOPEZ
CHECKED BY: NATE SCHREINER
APPROVED BY: JASON L. FUSSEL

THIS PLAN WAS ELECTRONICALLY SIGNED AND STAMPED.
REGISTERED PROFESSIONAL ENGINEER — JUSTIN T. SMITH — No. 85736 — EXP. 9-30-22 — CIVIL — STATE OF CALIFORNIA

NO. | REVISIONS | DATE | BY
INDEX NO.
BUILDING NO.

WORK ORDER NO. E700235D
FILE NO. --
DRAWING NO. CD-001
SHEET 16 OF 295 SHEETS

BID SET - NOT FOR CONSTRUCTION

REVISION DATES (DESIGN STAGE ONLY)

Sheet Version 3.0

7/8/2022 8:40:39 AM - O:\PROJECTS\IRVINE\2004\3\200-20043-17001\CAD\SHEETFILES\C-001_DEMOLITION PLAN - TT.DWG - SMITH, JUSTIN

LEGEND:

(shaded)	REMOVE EXISTING AC PAVEMENT AND BASE MATERIAL
(stippled)	REMOVE EXISTING CONCRETE
— · —	SAWCUT
— — (heavy)	LIMITS OF WORK (2' OFFSET FOR CLARITY)
— —	PROPERTY LINE
—— ——	EASEMENT BOUNDARY LINE
—x—x—	TEMPORARY CONSTRUCTION/ SECURITY FENCE

LEGEND OF CONSTRUCTION NOTES

○ CONSTRUCT □ REMOVE REMODEL & ADJUST TO GRADE ◌ WORK BY OTHERS EXISTING-PROTECT IN PLACE REMOVE & RECONSTRUCT

NO.	CONSTRUCTION ITEM/NOTE	NO.	CONSTRUCTION ITEM/NOTE	NO.	CONSTRUCTION ITEM/NOTE
2	TYPE C INTEGRAL CURB & GUTTER	48	POWER POLE	72	SAWCUT LINE; JOIN EXISTING
5	CONCRETE LONGITUDINAL GUTTER	49	GAS VALVE	76	TUNNEL AC WEARING SURFACE
8	CONCRETE PAVEMENT	50	WATER VALVE	77	ELECTRIC PULL BOX
10	CONCRETE DRIVEWAY	51	LIGHT POLE	78	ALLEY GRATING BASIN (AGB)
12	CONCRETE WALK	53	FENCE INCLUDING PILASTERS	136	SEWER MAINTENANCE HOLE
13	CURB RAMP	54	RETAINING WALL	180	EXISTING WATER LINE
14	ASPHALT CONCRETE PAVEMENT	56	VIADUCT BENT / COLUMN	181	EXISTING GAS LINE
16	UNTREATED BASE MATERIAL	59	VIADUCT ARCH LIGHTING	182	EXISTING SANITARY SEWER LINE
17	ADJUST MAINTENANCE HOLE TO GRADE	61	POWER SERVICE EQUIPMENT / PANEL	183	EXISTING STORM DRAIN LINE
37	POLE ANCHOR	62	PAD-MOUNTED SWITCH GEAR	184	EXISTING OVERHEAD POWER
41	FIRE HYDRANT	64	STAIRS	185	EXISTING UNDERGROUND POWER
43	DWPPS VENT	65	TUNNEL	186	EXISTING OVERHEAD TELECOM
44	DWPPS MAINTENANCE HOLE	67	SEWER SIPHON STRUCTURE	187	EXISTING UNDERGROUND TELECOM
46	WATER METER	69	FIXED BOLLARD	188	EXISTING OIL LINE

DEMOLITION NOTES:

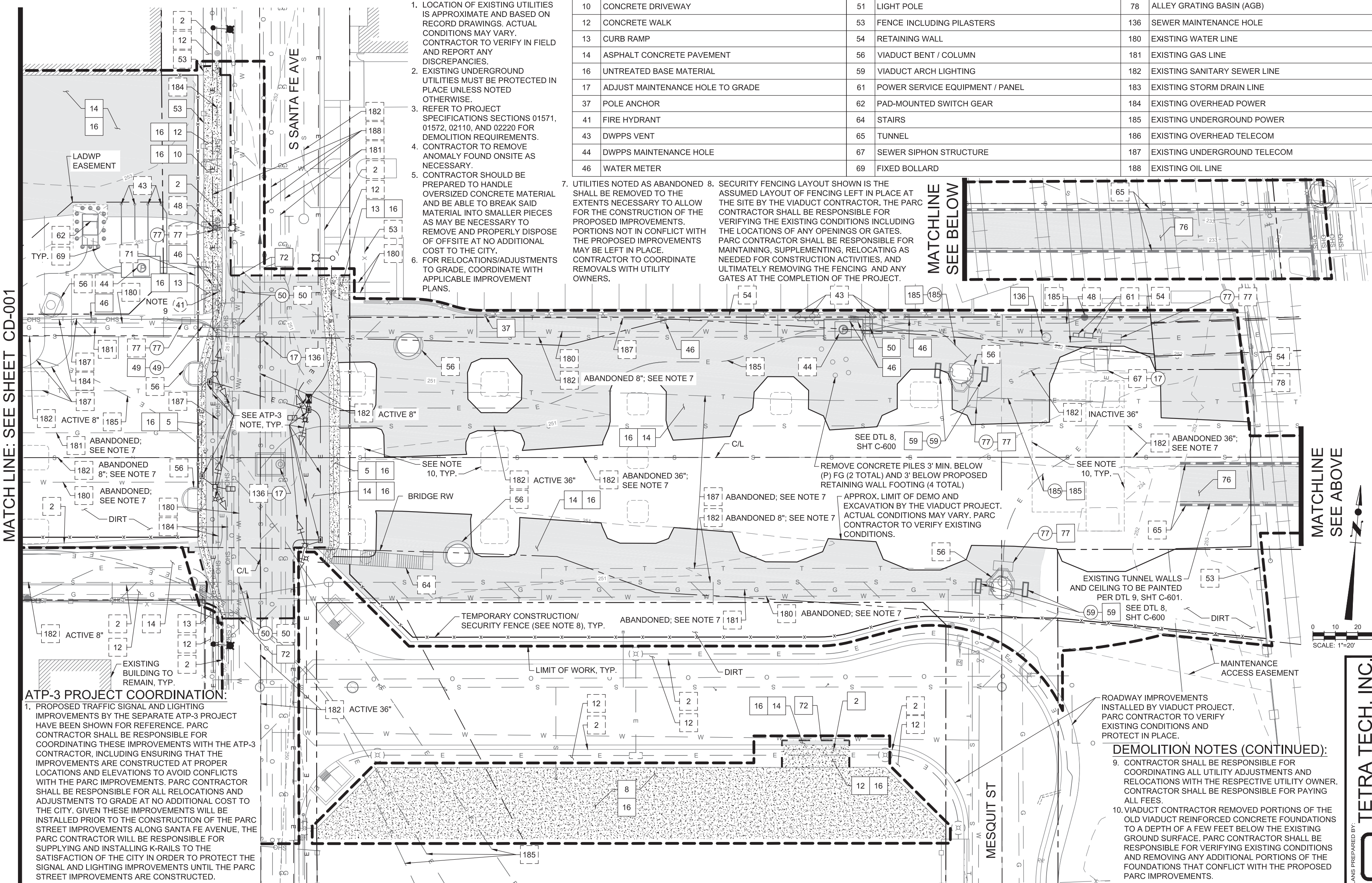
1. LOCATION OF EXISTING UTILITIES IS APPROXIMATE AND BASED ON RECORD DRAWINGS. ACTUAL CONDITIONS MAY VARY. CONTRACTOR TO VERIFY IN FIELD AND REPORT ANY DISCREPANCIES.
2. EXISTING UNDERGROUND UTILITIES MUST BE PROTECTED IN PLACE UNLESS NOTED OTHERWISE.
3. REFER TO PROJECT SPECIFICATIONS SECTIONS 01571, 01572, 02110, AND 02220 FOR DEMOLITION REQUIREMENTS.
4. CONTRACTOR TO REMOVE ANOMALY FOUND ONSITE AS NECESSARY.
5. CONTRACTOR SHOULD BE PREPARED TO HANDLE OVERSIZED CONCRETE MATERIAL AND BE ABLE TO BREAK SAID MATERIAL INTO SMALLER PIECES AS MAY BE NECESSARY TO REMOVE AND PROPERLY DISPOSE OF OFFSITE AT NO ADDITIONAL COST TO THE CITY.
6. FOR RELOCATIONS/ADJUSTMENTS TO GRADE, COORDINATE WITH APPLICABLE IMPROVEMENT PLANS.
7. UTILITIES NOTED AS ABANDONED SHALL BE REMOVED TO THE EXTENTS NECESSARY TO ALLOW FOR THE CONSTRUCTION OF THE PROPOSED IMPROVEMENTS. PORTIONS NOT IN CONFLICT WITH THE PROPOSED IMPROVEMENTS MAY BE LEFT IN PLACE. CONTRACTOR TO COORDINATE REMOVALS WITH UTILITY OWNERS.
8. SECURITY FENCING LAYOUT SHOWN IS THE ASSUMED LAYOUT OF FENCING LEFT IN PLACE AT THE SITE BY THE VIADUCT CONTRACTOR. THE PARC CONTRACTOR SHALL BE RESPONSIBLE FOR VERIFYING THE EXISTING CONDITIONS INCLUDING THE LOCATIONS OF ANY OPENINGS OR GATES. PARC CONTRACTOR SHALL BE RESPONSIBLE FOR MAINTAINING, SUPPLEMENTING, RELOCATING AS NEEDED FOR CONSTRUCTION ACTIVITIES, AND ULTIMATELY REMOVING THE FENCING AND ANY GATES AT THE COMPLETION OF THE PROJECT.

DEMOLITION NOTES (CONTINUED):

9. CONTRACTOR SHALL BE RESPONSIBLE FOR COORDINATING ALL UTILITY ADJUSTMENTS AND RELOCATIONS WITH THE RESPECTIVE UTILITY OWNER. CONTRACTOR SHALL BE RESPONSIBLE FOR PAYING ALL FEES.
10. VIADUCT CONTRACTOR REMOVED PORTIONS OF THE OLD VIADUCT REINFORCED CONCRETE FOUNDATIONS TO A DEPTH OF A FEW FEET BELOW THE EXISTING GROUND SURFACE. PARC CONTRACTOR SHALL BE RESPONSIBLE FOR VERIFYING EXISTING CONDITIONS AND REMOVING ANY ADDITIONAL PORTIONS OF THE FOUNDATIONS THAT CONFLICT WITH THE PROPOSED PARC IMPROVEMENTS.

ATP-3 PROJECT COORDINATION:

1. PROPOSED TRAFFIC SIGNAL AND LIGHTING IMPROVEMENTS BY THE SEPARATE ATP-3 PROJECT HAVE BEEN SHOWN FOR REFERENCE. PARC CONTRACTOR SHALL BE RESPONSIBLE FOR COORDINATING THESE IMPROVEMENTS WITH THE ATP-3 CONTRACTOR, INCLUDING ENSURING THAT THE IMPROVEMENTS ARE CONSTRUCTED AT PROPER LOCATIONS AND ELEVATIONS TO AVOID CONFLICTS WITH THE PARC IMPROVEMENTS. PARC CONTRACTOR SHALL BE RESPONSIBLE FOR ALL RELOCATIONS AND ADJUSTMENTS TO GRADE AT NO ADDITIONAL COST TO THE CITY. GIVEN THESE IMPROVEMENTS WILL BE INSTALLED PRIOR TO THE CONSTRUCTION OF THE PARC STREET IMPROVEMENTS ALONG SANTA FE AVENUE, THE PARC CONTRACTOR WILL BE RESPONSIBLE FOR SUPPLYING AND INSTALLING K-RAILS TO THE SATISFACTION OF THE CITY IN ORDER TO PROTECT THE SIGNAL AND LIGHTING IMPROVEMENTS UNTIL THE PARC STREET IMPROVEMENTS ARE CONSTRUCTED.



TETRA TECH, INC.
707 WILSHIRE BLVD, 23RD FLR.
LOS ANGELES, CA 90017
PHONE: (213) 239-8866

CITY OF LOS ANGELES — DEPARTMENT OF PUBLIC WORKS — BUREAU OF ENGINEERING

GARY LEE MOORE, P.E., ENV SP — CITY ENGINEER — DESIGN GROUP

ENGINEER: JUSTIN SMITH LIC. NO. C-85736 DATE: 07/11/22
DESIGNED BY: JUSTIN SMITH
DRAWN BY: DAVID LOPEZ
CHECKED BY: NATE SCHREINER
APPROVED BY: JASON L. FUSSEL

REGISTERED PROFESSIONAL ENGINEER JUSTIN T. SMITH No. 85736 EXP. 9-30-22 CIVIL STATE OF CALIFORNIA
THIS PLAN WAS ELECTRONICALLY SIGNED AND STAMPED

VERT. CONTROL: BM 12-04070, 1929 (NGVD29) + 1985 ADJUSTMENT
HORIZ. CONTROL: GPS; PID AE 1704, EPOCH 1991.35

SHEET TITLE: DEMOLITION PLAN SHEET 2
PROJECT: SIXTH STREET PARK, ARTS AND RIVER CONNECTIVITY IMPROVEMENTS (PARC)
ADDRESS: SIXTH STREET OVER THE LOS ANGELES RIVER

WORK ORDER NO. E700235D
FILE NO. --
DRAWING NO. CD-002
SHEET 17 OF 295 SHEETS

NO. | REVISIONS | DATE | BY
INDEX NO.
BUILDING NO.
REVISION DATES (DESIGN STAGE ONLY)

Sheet Version 3.0

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BID SET - NOT FOR CONSTRUCTION

LEGEND:

Symbol	Description
(grey fill)	REMOVE EXISTING AC PAVEMENT AND BASE MATERIAL
(stippled fill)	REMOVE EXISTING CONCRETE
(dark hatched fill)	REMOVE EXISTING DG PATH
— · —	SAWCUT
— — (heavy dashed)	LIMITS OF WORK (2' OFFSET FOR CLARITY)
— — —	PROPERTY LINE
—— ——	EASEMENT BOUNDARY LINE
—x—x—	TEMPORARY CONSTRUCTION/ SECURITY FENCE

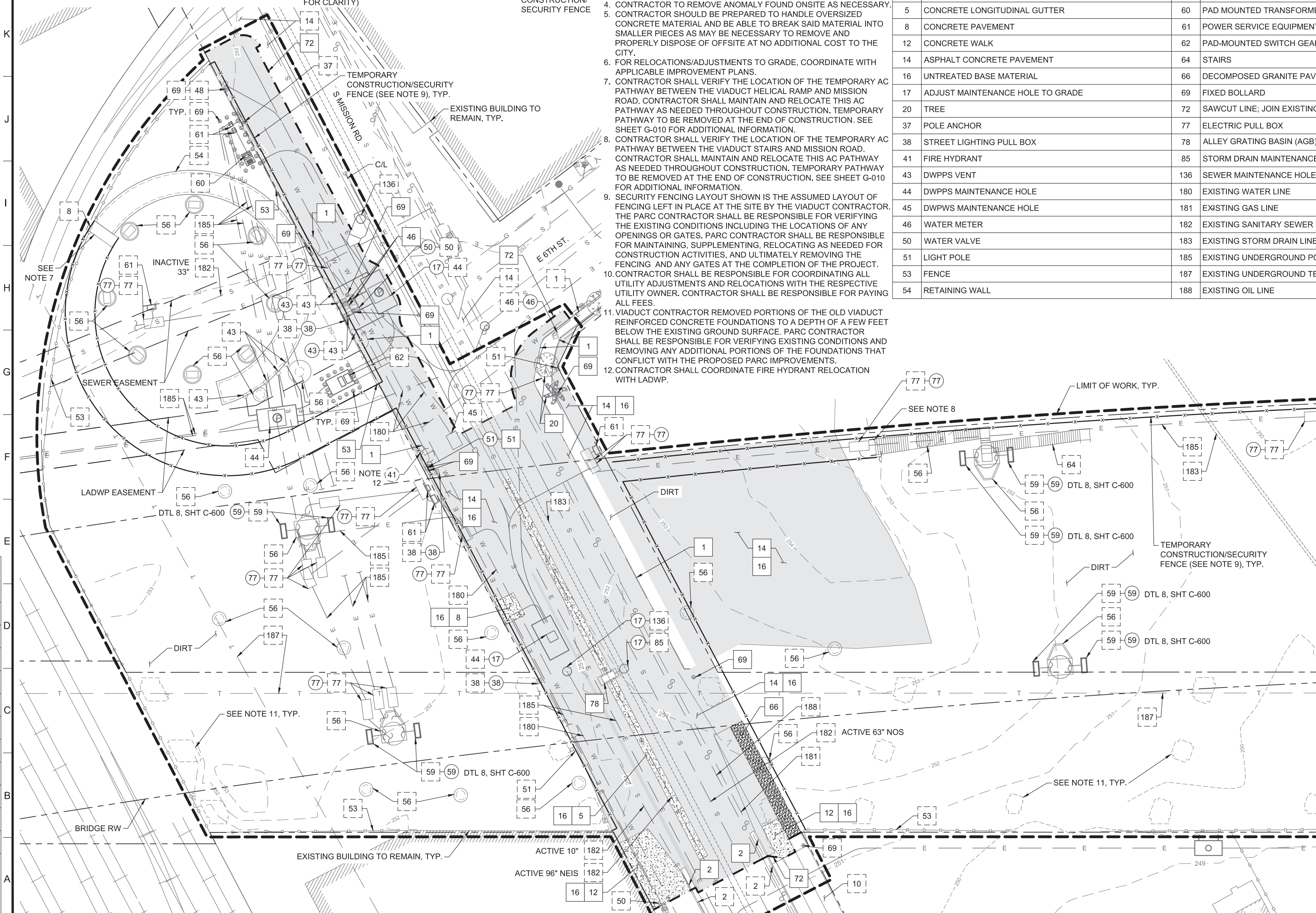
DEMOLITION NOTES:

1. LOCATION OF EXISTING UTILITIES IS APPROXIMATE AND BASED ON RECORD DRAWINGS. ACTUAL CONDITIONS MAY VARY. CONTRACTOR TO VERIFY IN FIELD AND REPORT ANY DISCREPANCIES.
2. EXISTING UNDERGROUND UTILITIES MUST BE PROTECTED IN PLACE UNLESS NOTED OTHERWISE.
3. REFER TO PROJECT SPECIFICATIONS SECTIONS 01571, 01572, 02110, AND 02220 FOR DEMOLITION REQUIREMENTS.
4. CONTRACTOR TO REMOVE ANOMALY FOUND ONSITE AS NECESSARY.
5. CONTRACTOR SHOULD BE PREPARED TO HANDLE OVERSIZED CONCRETE MATERIAL AND BE ABLE TO BREAK SAID MATERIAL INTO SMALLER PIECES AS MAY BE NECESSARY TO REMOVE AND PROPERLY DISPOSE OF OFFSITE AT NO ADDITIONAL COST TO THE CITY.
6. FOR RELOCATIONS/ADJUSTMENTS TO GRADE, COORDINATE WITH APPLICABLE IMPROVEMENT PLANS.
7. CONTRACTOR SHALL VERIFY THE LOCATION OF THE TEMPORARY AC PATHWAY BETWEEN THE VIADUCT HELICAL RAMP AND MISSION ROAD. CONTRACTOR SHALL MAINTAIN AND RELOCATE THIS AC PATHWAY AS NEEDED THROUGHOUT CONSTRUCTION. TEMPORARY PATHWAY TO BE REMOVED AT THE END OF CONSTRUCTION. SEE SHEET G-010 FOR ADDITIONAL INFORMATION.
8. CONTRACTOR SHALL VERIFY THE LOCATION OF THE TEMPORARY AC PATHWAY BETWEEN THE VIADUCT STAIRS AND MISSION ROAD. CONTRACTOR SHALL MAINTAIN AND RELOCATE THIS AC PATHWAY AS NEEDED THROUGHOUT CONSTRUCTION. TEMPORARY PATHWAY TO BE REMOVED AT THE END OF CONSTRUCTION. SEE SHEET G-010 FOR ADDITIONAL INFORMATION.
9. SECURITY FENCING LAYOUT SHOWN IS THE ASSUMED LAYOUT OF FENCING LEFT IN PLACE AT THE SITE BY THE VIADUCT CONTRACTOR. THE PARC CONTRACTOR SHALL BE RESPONSIBLE FOR VERIFYING THE EXISTING CONDITIONS INCLUDING THE LOCATIONS OF ANY OPENINGS OR GATES. PARC CONTRACTOR SHALL BE RESPONSIBLE FOR MAINTAINING, SUPPLEMENTING, RELOCATING AS NEEDED FOR CONSTRUCTION ACTIVITIES, AND ULTIMATELY REMOVING THE FENCING AND ANY GATES AT THE COMPLETION OF THE PROJECT.
10. CONTRACTOR SHALL BE RESPONSIBLE FOR COORDINATING ALL UTILITY ADJUSTMENTS AND RELOCATIONS WITH THE RESPECTIVE UTILITY OWNER. CONTRACTOR SHALL BE RESPONSIBLE FOR PAYING ALL FEES.
11. VIADUCT CONTRACTOR REMOVED PORTIONS OF THE OLD VIADUCT REINFORCED CONCRETE FOUNDATIONS TO A DEPTH OF A FEW FEET BELOW THE EXISTING GROUND SURFACE. PARC CONTRACTOR SHALL BE RESPONSIBLE FOR VERIFYING EXISTING CONDITIONS AND REMOVING ANY ADDITIONAL PORTIONS OF THE FOUNDATIONS THAT CONFLICT WITH THE PROPOSED PARC IMPROVEMENTS.
12. CONTRACTOR SHALL COORDINATE FIRE HYDRANT RELOCATION WITH LADWP.

LEGEND OF CONSTRUCTION NOTES

○ CONSTRUCT □ REMOVE ⬚-○ REMODEL & ADJUST TO GRADE ◌ WORK BY OTHERS ⬚ EXISTING-PROTECT IN PLACE □-○ REMOVE & RECONSTRUCT

NO.	CONSTRUCTION ITEM/NOTE	NO.	CONSTRUCTION ITEM/NOTE
1	TYPE A CONCRETE CURB	56	VIADUCT BENT / COLUMN
2	TYPE C INTEGRAL CURB & GUTTER	59	VIADUCT ARCH LIGHTING
5	CONCRETE LONGITUDINAL GUTTER	60	PAD MOUNTED TRANSFORMER
8	CONCRETE PAVEMENT	61	POWER SERVICE EQUIPMENT / PANEL
12	CONCRETE WALK	62	PAD-MOUNTED SWITCH GEAR
14	ASPHALT CONCRETE PAVEMENT	64	STAIRS
16	UNTREATED BASE MATERIAL	66	DECOMPOSED GRANITE PAVEMENT
17	ADJUST MAINTENANCE HOLE TO GRADE	69	FIXED BOLLARD
20	TREE	72	SAWCUT LINE; JOIN EXISTING
37	POLE ANCHOR	77	ELECTRIC PULL BOX
38	STREET LIGHTING PULL BOX	78	ALLEY GRATING BASIN (AGB)
41	FIRE HYDRANT	85	STORM DRAIN MAINTENANCE HOLE
43	DWPPS VENT	136	SEWER MAINTENANCE HOLE
44	DWPPS MAINTENANCE HOLE	180	EXISTING WATER LINE
45	DWPWS MAINTENANCE HOLE	181	EXISTING GAS LINE
46	WATER METER	182	EXISTING SANITARY SEWER LINE
50	WATER VALVE	183	EXISTING STORM DRAIN LINE
51	LIGHT POLE	185	EXISTING UNDERGROUND POWER
53	FENCE	187	EXISTING UNDERGROUND TELECOM
54	RETAINING WALL	188	EXISTING OIL LINE



MATCH LINE: SEE SHEET CD-004

PLANS PREPARED BY: TETRA TECH, INC.
707 WILSHIRE BLVD. 23RD FLR.
LOS ANGELES, CA 90017
PHONE: (213) 239-8866

CITY OF LOS ANGELES — DEPARTMENT OF PUBLIC WORKS — BUREAU OF ENGINEERING

VERT. CONTROL: BM 12-04070, 1929 (NGVD29) • 1985 ADJUSTMENT
HORIZ. CONTROL: GPS; PID AE 1704, EPOCH 1991.35

SHEET TITLE: DEMOLITION PLAN SHEET 3
PROJECT: SIXTH STREET PARK, ARTS AND RIVER CONNECTIVITY IMPROVEMENTS (PARC)
ADDRESS: SIXTH STREET OVER THE LOS ANGELES RIVER

GARY LEE MOORE, P.E., ENV SP — CITY ENGINEER
DESIGN GROUP
ENGINEER: JUSTIN SMITH LIC. NO. C-85736 DATE: 07/11/22
DESIGNED BY: JUSTIN SMITH
DRAWN BY: DAVID LOPEZ
CHECKED BY: NATE SCHREINER
APPROVED BY: JASON L. FUSSEL

THIS PLAN WAS ELECTRONICALLY SIGNED AND STAMPED.
REGISTERED PROFESSIONAL ENGINEER — JUSTIN T. SMITH — No. 85736 — EXP. 9-30-22 — CIVIL — STATE OF CALIFORNIA

NO. | REVISIONS | DATE | BY
INDEX NO.
BUILDING NO.

ENGINEERING — CITY OF LOS ANGELES

WORK ORDER NO. E700235D
FILE NO. --
DRAWING NO. CD-003
SHEET 18 OF 295 SHEETS

7/8/2022 8:59:04 AM - O:\PROJECTS\IRVINE\200430200-20043-17001\CAD\SHEETFILES\C-003_DEMOLITION PLAN - TT.DWG - SMITH, JUSTIN

THE CITY OF LOS ANGELES OR ITS OFFICERS OR AGENTS SHALL NOT BE RESPONSIBLE FOR THE ACCURACY OR COMPLETENESS OF ELECTRONIC COPIES OF THIS PLAN SHEET.

REVISION DATES (DESIGN STAGE ONLY)

Sheet Version 3.0

BID SET - NOT FOR CONSTRUCTION

LEGEND OF CONSTRUCTION NOTES

◯ CONSTRUCT ☐ REMOVE ⬚—◯ REMODEL & ADJUST TO GRADE ◌ WORK BY OTHERS ⬚ EXISTING-PROTECT IN PLACE ☐—◯ REMOVE & RECONSTRUCT

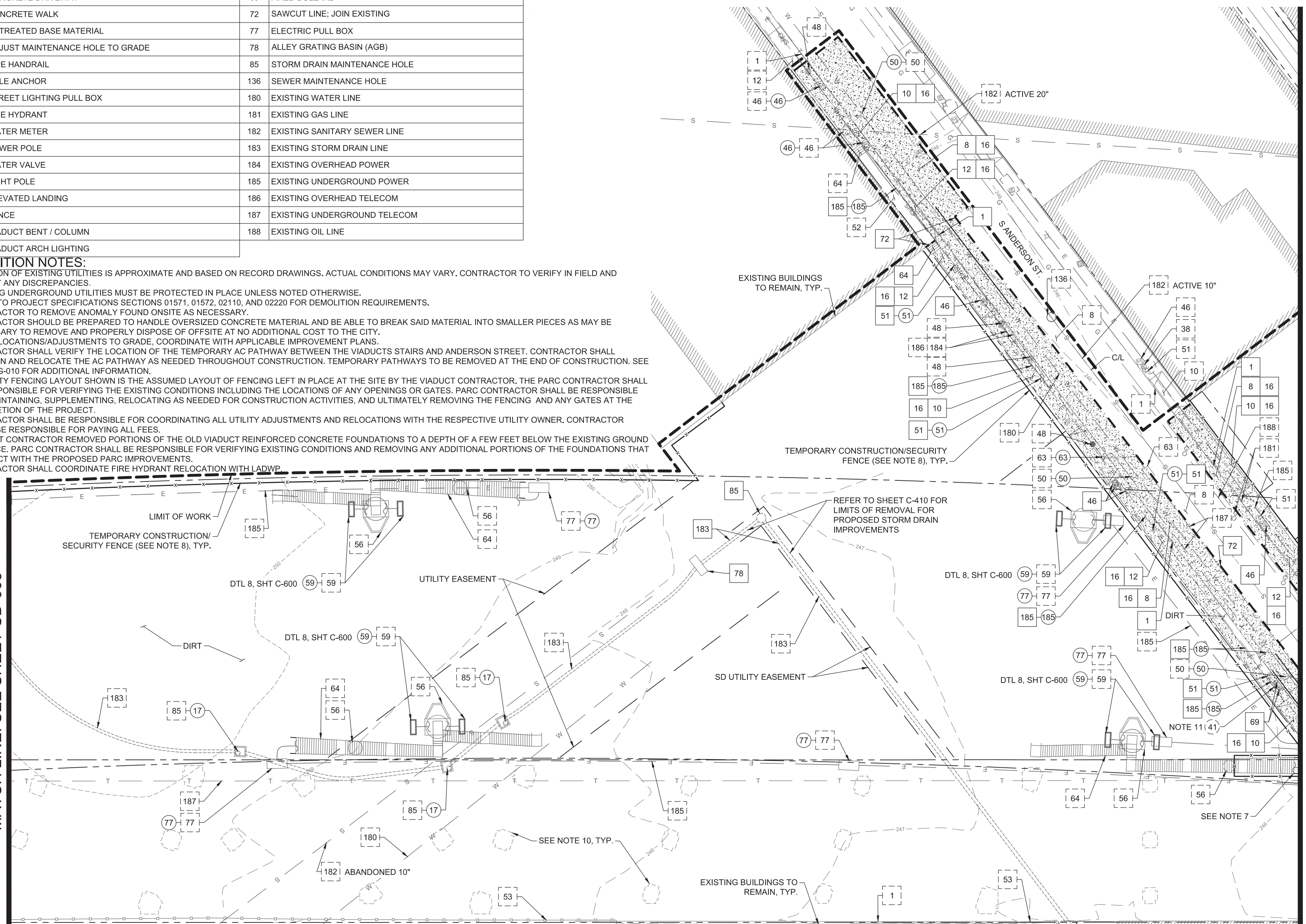
NO.	CONSTRUCTION ITEM/NOTE	NO.	CONSTRUCTION ITEM/NOTE
1	TYPE A CONCRETE CURB	63	TELECOM PULL BOX
8	CONCRETE PAVEMENT	64	STAIRS
10	CONCRETE DRIVEWAY	69	FIXED BOLLARD
12	CONCRETE WALK	72	SAWCUT LINE; JOIN EXISTING
16	UNTREATED BASE MATERIAL	77	ELECTRIC PULL BOX
17	ADJUST MAINTENANCE HOLE TO GRADE	78	ALLEY GRATING BASIN (AGB)
31	PIPE HANDRAIL	85	STORM DRAIN MAINTENANCE HOLE
37	POLE ANCHOR	136	SEWER MAINTENANCE HOLE
38	STREET LIGHTING PULL BOX	180	EXISTING WATER LINE
41	FIRE HYDRANT	181	EXISTING GAS LINE
46	WATER METER	182	EXISTING SANITARY SEWER LINE
48	POWER POLE	183	EXISTING STORM DRAIN LINE
50	WATER VALVE	184	EXISTING OVERHEAD POWER
51	LIGHT POLE	185	EXISTING UNDERGROUND POWER
52	ELEVATED LANDING	186	EXISTING OVERHEAD TELECOM
53	FENCE	187	EXISTING UNDERGROUND TELECOM
56	VIADUCT BENT / COLUMN	188	EXISTING OIL LINE
59	VIADUCT ARCH LIGHTING		

LEGEND:

REMOVE EXISTING AC PAVEMENT AND BASE MATERIAL	SAWCUT
REMOVE EXISTING CONCRETE	LIMITS OF WORK (2' OFFSET FOR CLARITY)
	PROPERTY LINE
	EASEMENT BOUNDARY LINE
	TEMPORARY CONSTRUCTION/SECURITY FENCE

DEMOLITION NOTES:

1. LOCATION OF EXISTING UTILITIES IS APPROXIMATE AND BASED ON RECORD DRAWINGS. ACTUAL CONDITIONS MAY VARY. CONTRACTOR TO VERIFY IN FIELD AND REPORT ANY DISCREPANCIES.
2. EXISTING UNDERGROUND UTILITIES MUST BE PROTECTED IN PLACE UNLESS NOTED OTHERWISE.
3. REFER TO PROJECT SPECIFICATIONS SECTIONS 01571, 01572, 02110, AND 02220 FOR DEMOLITION REQUIREMENTS.
4. CONTRACTOR TO REMOVE ANOMALY FOUND ONSITE AS NECESSARY.
5. CONTRACTOR SHOULD BE PREPARED TO HANDLE OVERSIZED CONCRETE MATERIAL AND BE ABLE TO BREAK SAID MATERIAL INTO SMALLER PIECES AS MAY BE NECESSARY TO REMOVE AND PROPERLY DISPOSE OF OFFSITE AT NO ADDITIONAL COST TO THE CITY.
6. FOR RELOCATIONS/ADJUSTMENTS TO GRADE, COORDINATE WITH APPLICABLE IMPROVEMENT PLANS.
7. CONTRACTOR SHALL VERIFY THE LOCATION OF THE TEMPORARY AC PATHWAY BETWEEN THE VIADUCTS STAIRS AND ANDERSON STREET. CONTRACTOR SHALL MAINTAIN AND RELOCATE THE AC PATHWAY AS NEEDED THROUGHOUT CONSTRUCTION. TEMPORARY PATHWAYS TO BE REMOVED AT THE END OF CONSTRUCTION. SEE SHEET G-010 FOR ADDITIONAL INFORMATION.
8. SECURITY FENCING LAYOUT SHOWN IS THE ASSUMED LAYOUT OF FENCING LEFT IN PLACE AT THE SITE BY THE VIADUCT CONTRACTOR. THE PARC CONTRACTOR SHALL BE RESPONSIBLE FOR VERIFYING THE EXISTING CONDITIONS INCLUDING THE LOCATIONS OF ANY OPENINGS OR GATES. PARC CONTRACTOR SHALL BE RESPONSIBLE FOR MAINTAINING, SUPPLEMENTING, RELOCATING AS NEEDED FOR CONSTRUCTION ACTIVITIES, AND ULTIMATELY REMOVING THE FENCING AND ANY GATES AT THE COMPLETION OF THE PROJECT.
9. CONTRACTOR SHALL BE RESPONSIBLE FOR COORDINATING ALL UTILITY ADJUSTMENTS AND RELOCATIONS WITH THE RESPECTIVE UTILITY OWNER. CONTRACTOR SHALL BE RESPONSIBLE FOR PAYING ALL FEES.
10. VIADUCT CONTRACTOR REMOVED PORTIONS OF THE OLD VIADUCT REINFORCED CONCRETE FOUNDATIONS TO A DEPTH OF A FEW FEET BELOW THE EXISTING GROUND SURFACE. PARC CONTRACTOR SHALL BE RESPONSIBLE FOR VERIFYING EXISTING CONDITIONS AND REMOVING ANY ADDITIONAL PORTIONS OF THE FOUNDATIONS THAT CONFLICT WITH THE PROPOSED PARC IMPROVEMENTS.
11. CONTRACTOR SHALL COORDINATE FIRE HYDRANT RELOCATION WITH LADWP.



REVISION DATES (DESIGN STAGE ONLY)

Sheet Version 3.0

PLANS PREPARED BY:
TETRA TECH, INC.
707 WILSHIRE BLVD, 23RD FLR.
LOS ANGELES, CA 90017
PHONE: (213) 239-8866

CITY OF LOS ANGELES — DEPARTMENT OF PUBLIC WORKS — BUREAU OF ENGINEERING

VERT. CONTROL: BM 12-04070, 1929 (NGVD29) • 1985 ADJUSTMENT
HORIZ. CONTROL: GPS: PID AE 1704, EPOCH 1991.35

SHEET TITLE: DEMOLITION PLAN SHEET 4
PROJECT: SIXTH STREET PARK, ARTS AND RIVER CONNECTIVITY IMPROVEMENTS (PARC)
ADDRESS: SIXTH STREET OVER THE LOS ANGELES RIVER

GARY LEE MOORE, P.E., ENV SP — CITY ENGINEER
DESIGN GROUP — DATE:
ENGINEER: JUSTIN SMITH — LIC. NO. C-85736 — 07/11/22
DESIGNED BY: JUSTIN SMITH
DRAWN BY: DAVID LOPEZ
CHECKED BY: NATE SCHREINER
APPROVED BY: JASON L. FUSSEL

THIS PLAN WAS ELECTRONICALLY SIGNED AND STAMPED
REGISTERED PROFESSIONAL ENGINEER — JUSTIN T. SMITH — No. 85736 — EXP. 9-30-22 — CIVIL — STATE OF CALIFORNIA

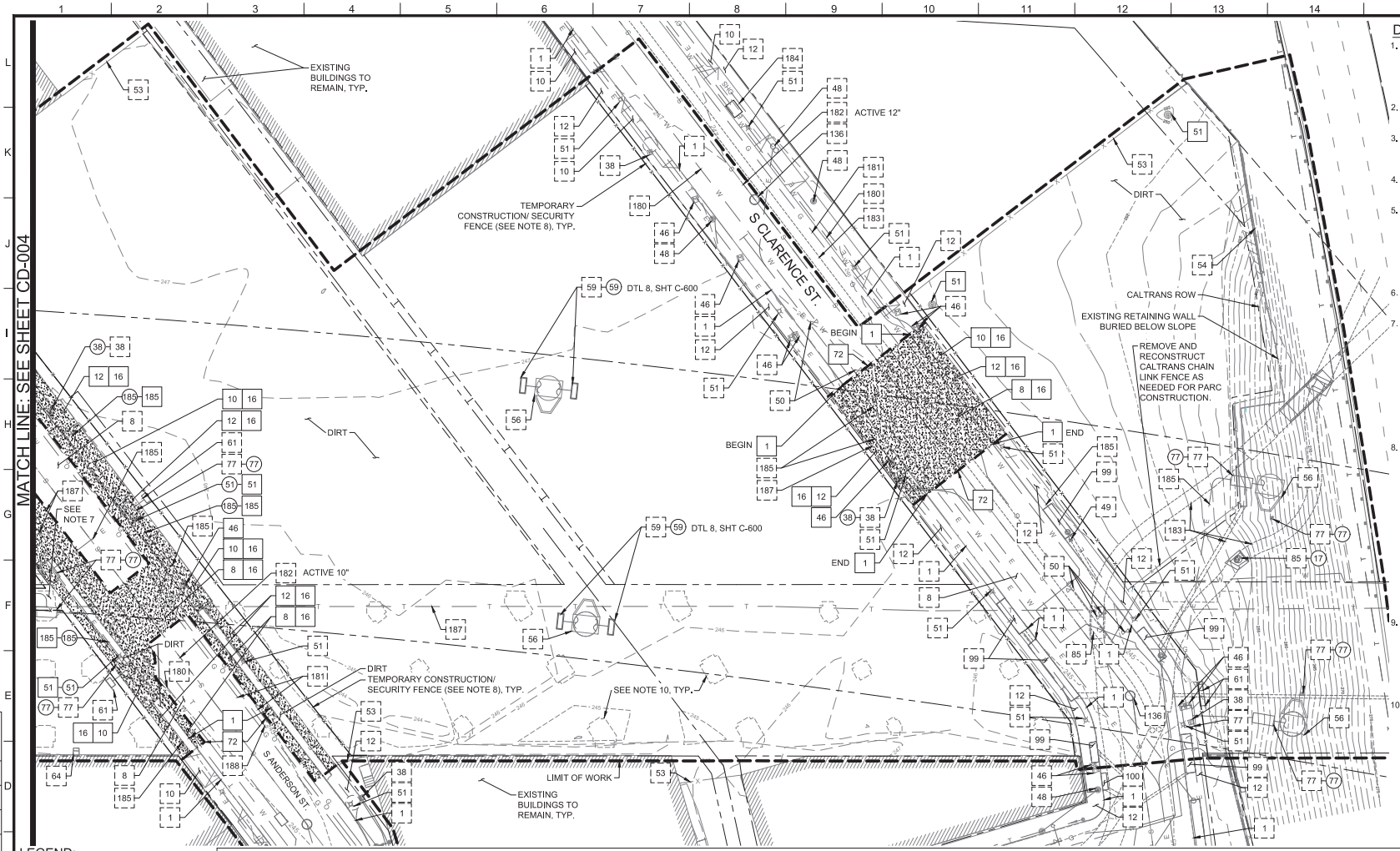
NO. | REVISIONS | DATE | BY
INDEX NO.
BUILDING NO.

ENGINEERING — CITY OF LOS ANGELES

WORK ORDER NO. E700235D
FILE NO. --
DRAWING NO. CD-004
SHEET 19 OF 295 SHEETS

7/8/2022 9:06:21 AM - O:\PROJECTS\IRVINE\20043\200-20043-17001\CAD\SHEETFILES\C-004_DEMOLITION PLAN - TT.DWG - SMITH, JUSTIN

BID SET - NOT FOR CONSTRUCTION



DEMOLITION NOTES:

1. LOCATION OF EXISTING UTILITIES IS APPROXIMATE AND BASED ON RECORD DRAWINGS. ACTUAL CONDITIONS MAY VARY. CONTRACTOR TO VERIFY IN FIELD AND REPORT ANY DISCREPANCIES.
2. EXISTING UNDERGROUND UTILITIES MUST BE PROTECTED IN PLACE UNLESS NOTED OTHERWISE.
3. REFER TO PROJECT SPECIFICATIONS SECTIONS 01571, 01572, 02110, AND 02220 FOR DEMOLITION REQUIREMENTS.
4. CONTRACTOR TO REMOVE ANOMALY FOUND ONSITE AS NECESSARY.
5. CONTRACTOR SHOULD BE PREPARED TO HANDLE OVERSIZED CONCRETE MATERIAL AND BE ABLE TO BREAK SAID MATERIAL INTO SMALLER PIECES AS MAY BE NECESSARY TO REMOVE AND PROPERLY DISPOSE OF OFFSITE AT NO ADDITIONAL COST TO THE CITY.
6. FOR RELOCATIONS/ADJUSTMENTS TO GRADE, COORDINATE WITH APPLICABLE IMPROVEMENT PLANS.
7. CONTRACTOR SHALL VERIFY THE LOCATION OF THE TEMPORARY AC PATHWAY BETWEEN THE VIADUCTS STAIRS AND ANDERSON STREET. CONTRACTOR SHALL MAINTAIN AND RELOCATE THE AC PATHWAY AS NEEDED THROUGHOUT CONSTRUCTION. TEMPORARY PATHWAYS TO BE REMOVED AT THE END OF CONSTRUCTION. SEE SHEET G-010 FOR ADDITIONAL INFORMATION.
8. SECURITY FENCING LAYOUT SHOWN IS THE ASSUMED LAYOUT OF FENCING LEFT IN PLACE AT THE SITE BY THE VIADUCT CONTRACTOR. THE PARC CONTRACTOR SHALL BE RESPONSIBLE FOR VERIFYING THE EXISTING CONDITIONS INCLUDING THE LOCATIONS OF ANY OPENINGS OR GATES. PARC CONTRACTOR SHALL BE RESPONSIBLE FOR MAINTAINING, SUPPLEMENTING, RELOCATING AS NEEDED FOR CONSTRUCTION ACTIVITIES, AND ULTIMATELY REMOVING THE FENCING AND ANY GATES AT THE COMPLETION OF THE PROJECT.
9. CONTRACTOR SHALL BE RESPONSIBLE FOR COORDINATING ALL UTILITY ADJUSTMENTS AND RELOCATIONS WITH THE RESPECTIVE UTILITY OWNER. CONTRACTOR SHALL BE RESPONSIBLE FOR PAYING ALL FEES.
10. VIADUCT CONTRACTOR REMOVED PORTIONS OF THE OLD VIADUCT REINFORCED CONCRETE FOUNDATIONS TO A DEPTH OF A FEW FEET BELOW THE EXISTING GROUND SURFACE. PARC CONTRACTOR SHALL BE RESPONSIBLE FOR VERIFYING EXISTING CONDITIONS AND REMOVING ANY ADDITIONAL PORTIONS OF THE FOUNDATIONS THAT CONFLICT WITH THE PROPOSED PARC IMPROVEMENTS.

LEGEND:

- REMOVE EXISTING AC PAVEMENT AND BASE MATERIAL
- REMOVE EXISTING CONCRETE
- SAWCUT
- LIMITS OF WORK (2' OFFSET FOR CLARITY)
- PROPERTY LINE
- EASEMENT BOUNDARY LINE
- TEMPORARY CONSTRUCTION/ SECURITY FENCE

LEGEND OF CONSTRUCTION NOTES

○ CONSTRUCT □ REMOVE ⊡○ REMODEL & ADJUST TO GRADE ⬡ WORK BY OTHERS ⊡ EXISTING-PROTECT IN PLACE ⊡○ REMOVE & RECONSTRUCT

NO.	CONSTRUCTION ITEM/NOTE	NO.	CONSTRUCTION ITEM/NOTE	NO.	CONSTRUCTION ITEM/NOTE	NO.	CONSTRUCTION ITEM/NOTE
1	TYPE A CONCRETE CURB	50	WATER VALVE	99	SIDE OPENING CATCH BASIN	188	EXISTING OIL LINE
8	CONCRETE PAVEMENT	51	LIGHT POLE	100	SIDE OPENING CATCH BASIN WITH GRATINGS		
10	CONCRETE DRIVEWAY	53	FENCE	136	SEWER MAINTENANCE HOLE		
12	CONCRETE WALK	54	RETAINING WALL	180	EXISTING WATER LINE		
16	UNTREATED BASE MATERIAL	56	VIADUCT BENT / COLUMN	181	EXISTING GAS LINE		
17	ADJUST MAINTENANCE HOLE TO GRADE	59	VIADUCT ARCH LIGHTING	182	EXISTING SANITARY SEWER LINE		
37	POLE ANCHOR	61	POWER SERVICE EQUIPMENT / PANEL	183	EXISTING STORM DRAIN LINE		
38	STREET LIGHTING PULL BOX	64	STAIRS	184	EXISTING OVERHEAD POWER		
46	WATER METER	72	SAWCUT LINE; JOIN EXISTING	185	EXISTING UNDERGROUND POWER		
48	POWER POLE	77	ELECTRIC PULL BOX	186	EXISTING OVERHEAD TELECOM		
49	GAS VALVE	85	STORM DRAIN MAINTENANCE HOLE	187	EXISTING UNDERGROUND TELECOM		

SCALE: 1"=20'

PLANS PREPARED BY:
TETRA TECH, INC.
707 WILSHIRE BLVD. 23RD FLR.
LOS ANGELES, CA 90017
PHONE: (213) 239-9866

CITY OF LOS ANGELES DEPARTMENT OF PUBLIC WORKS BUREAU OF ENGINEERING
ENGINEERING
CITY OF LOS ANGELES

NO. REVISIONS | DATE | BY:

BUILDING NO.

INDEX NO.

THIS PLAN WAS ELECTRONICALLY SIGNED AND STAMPED

GARY LEE MOORE, P.E., ENV SP — CITY ENGINEER — DATE: 07/11/22
DESIGN GROUP — LIC. NO. C-68796
ENGINEER: JUSTIN SMITH
DESIGNED BY: JUSTIN SMITH
DRAWN BY: DAVID LOPEZ
CHECKED BY: NATE SCHREINER
APPROVED BY: JASON L. RUSSEL

SHEET TITLE: DEMOLITION PLAN SHEET 5
PROJECT: SIXTH STREET PARK, ARTS AND RIVER CONNECTIVITY IMPROVEMENTS (PARC)
ADDRESS: SIXTH STREET OVER THE LOS ANGELES RIVER

WORK ORDER NO. E700235D
FILE NO. --
DRAWING NO. CD-005
SHEET 20 OF 295 SHEETS

7/8/2022 8:15:35 AM - G:\PROJECTS\RIVNE\20043\200-20043-T7001\CAD\SHEETFILES\C-005_DEMOLITION PLAN - T7.DWG - SMITH, JUSTIN

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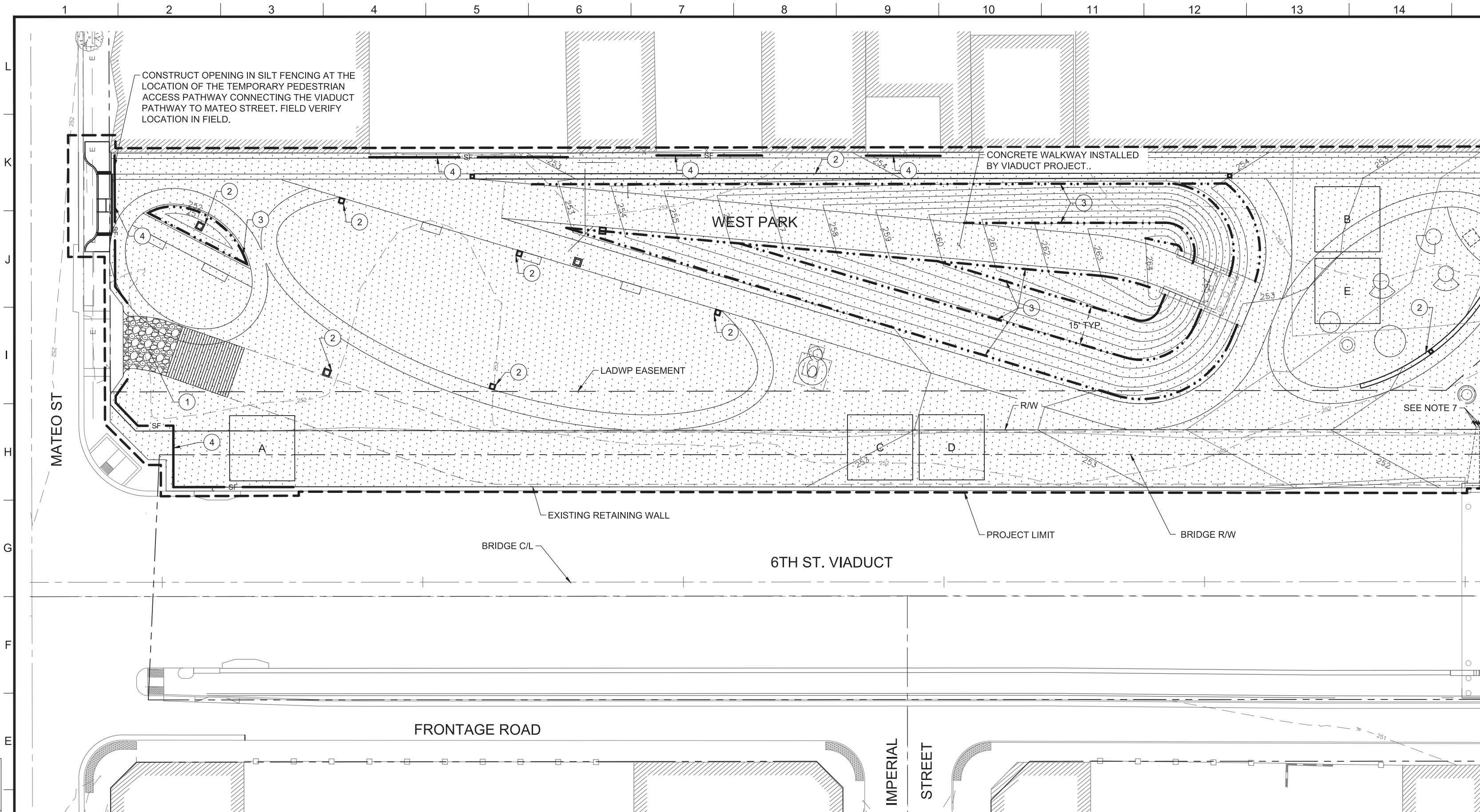

LEGEND:

- TC-1 STABILIZED CONSTRUCTION ENTRANCE
- TEMPORARY SOIL STABILIZATION, SEE NOTE 4.
- 1245 EXISTING CONTOUR
- 1245 PROPOSED CONTOUR
- GRAVEL BAG
- SF SILT FENCE
- FIBER ROLL
- A PROPOSED LOCATION FOR TEMPORARY TRASH ENCLOSURE PER CASQA WM-5
- B PROPOSED LOCATION FOR MATERIAL DELIVERY & STORAGE AREA PER CASQA WM-1
- C PROPOSED LOCATION FOR VEHICLE AND EQUIPMENT FUELING AREA PER CASQA NS-9
- D PROPOSED AREA FOR VEHICLE CLEANING AND MAINTENANCE PER CASQA NS-8 & NS-10
- E PROPOSED LOCATION FOR CONCRETE WASHOUT AREA PER CASQA WM-8

EROSION CONTROL NOTES:

① STABILIZED CONSTRUCTION ENTRANCE PER CASQA TC-1 AND DETAIL 1, SHEET C-105. PROVIDE TIRE WASH PER CASQA TC-3.
② STORM DRAIN INLET PROTECTION PER CASQA SE-10 AND DETAIL 2, SHEET C-105.
③ FIBER ROLLS PER CASQA SE-5 AND DETAIL 4, SHEET C-105.
④ SILT FENCE PER CASQA SE-1 AND DETAIL 3, SHEET C-105. LOCATE INSIDE CONSTRUCTION FENCE

NOTE:

1. THESE PLANS ARE FOR REFERENCE ONLY. CONTRACTOR TO PREPARE PROJECT STORM WATER POLLUTION PREVENTION PLAN (SWPPP) PER SPECIFICATION SECTION 01571. REFER TO SPECIFICATIONS AND THE BEST MANAGEMENT PRACTICES FOR ADDITIONAL INFORMATION.
2. TEMPORARY TRASH ENCLOSURE, MATERIAL DELIVERY AND STORAGE, VEHICLE/EQUIPMENT CLEANING, MAINTENANCE, AND FUELING, AND CONCRETE WASHOUT AREAS ARE FOR REFERENCE ONLY. FINAL LOCATIONS AND SIZES TO BE APPROVED AND ADJUSTED AS NECESSARY THROUGHOUT CONSTRUCTION AS PART OF CONTRACTOR'S SWPPP.
3. EMPLOYEE AND NON-WORK VEHICLES TO PARK OFF SITE UNLESS OTHERWISE APPROVED BY CITY.
4. ALL DISTURBED SOILS TO BE TEMPORARILY STABILIZED UPON COMPLETION OF CLEARING, GRUBBING, AND GRADING ACTIVITIES. TEMPORARY STABILIZATION SHALL CONSIST OF WATERING AT A MINIMUM. IF DISTURBED SOILS ARE TO REMAIN BARE FOR A SIGNIFICANT PERIOD OF TIME PRIOR TO PAVING OR FINAL STABILIZATION (SEEDING AND PLANTING ACTIVITIES), SUPPLEMENTAL STABILIZATION SHALL BE IMPLEMENTED. SUPPLEMENTAL STABILIZATION METHOD TO BE APPROVED BY THE ENGINEER.
5. STORM DRAIN INLET BMPS SHALL NOT BE INSTALLED ON INLETS WITHIN THE PUBLIC ROADWAYS PER CITY STANDARDS. ADEQUATE EROSION AND SEDIMENT CONTROL BMPS SHALL BE INSTALLED ON-SITE.
6. THE PROJECT AREAS WERE PREVIOUSLY A CONSTRUCTION SITE FOR THE SIXTH STREET VIADUCT PROJECT. THE PARC CONTRACTOR SHALL BE RESPONSIBLE FOR MANAGING AND ULTIMATELY REMOVING ALL EROSION AND SEDIMENT CONTROL BMPS THAT WERE INSTALLED BY THE VIADUCT PROJECT WITHIN THE PROJECT AREAS, INCLUDING BUT NOT LIMITED TO NON-VEGETATIVE STABILIZATION MEASURES, COMPOST SOCKS, FIBER ROLLS, ETC. CONTRACTOR IS RESPONSIBLE FOR VERIFYING EXISTING SITE CONDITIONS PRIOR TO SUBMITTING THEIR BID.
7. VIADUCT ABUTMENT DRAINS DO NOT HAVE AN OUTLET STRUCTURE. UNTIL THE MAINLINE PARC STORM DRAINS ARE CONSTRUCTED, RUNOFF FROM THE VIADUCT WILL DISCHARGE UNCONTROLLED ONTO THE SITE. PARC CONTRACTOR IS RESPONSIBLE FOR MANAGING THIS RUNOFF, INCLUDING ALL NECESSARY EROSION AND SEDIMENT CONTROLS, UNTIL THE ABUTMENT DRAINS ARE ABLE TO BE CONNECTED TO THE PARC STORM DRAIN SYSTEMS.

SCALE: 1"=20'

PLANS PREPARED BY:
TETRA TECH, INC.
707 WILSHIRE BLVD. 23RD FLR.
LOS ANGELES, CA 90017
PHONE: (213) 239-8866

CITY OF LOS ANGELES
DEPARTMENT OF PUBLIC WORKS
BUREAU OF ENGINEERING

VERT. CONTROL: BM 12-04070, 1929 (NGVD29) • 1985 ADJUSTMENT
HORIZ. CONTROL: GPS; PID AE 1704, EPOCH 1991.35

SHEET TITLE: EROSION AND SEDIMENT CONTROL PLAN SHEET 1
PROJECT: SIXTH STREET PARK, ARTS AND RIVER CONNECTIVITY IMPROVEMENTS (PARC)
ADDRESS: SIXTH STREET OVER THE LOS ANGELES RIVER

GARY LEE MOORE, P.E., ENV SP — CITY ENGINEER
DESIGN GROUP — DATE:
ENGINEER: JUSTIN SMITH — LIC. NO. C-85736 — 07/11/22
DESIGNED BY: JUSTIN SMITH
DRAWN BY: DAVID LOPEZ
CHECKED BY: NATE SCHREINER
APPROVED BY: JASON L. FUSSEL

• THIS PLAN WAS ELECTRONICALLY SIGNED AND STAMPED.

REGISTERED PROFESSIONAL ENGINEER — JUSTIN T. SMITH — No. 85736 — EXP. 9-30-22 — CIVIL — STATE OF CALIFORNIA

NO. | REVISIONS: | DATE: | BY:

INDEX NO.
BUILDING NO.

ENGINEERING — CITY OF LOS ANGELES

WORK ORDER NO. E700235D
FILE NO. --
DRAWING NO. C-100
SHEET 21 OF 295 SHEETS

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REVISION DATES (DESIGN STAGE ONLY)

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LEGEND:

(hatched)	TC-1 STABILIZED CONSTRUCTION ENTRANCE
(dotted)	TEMPORARY SOIL STABILIZATION, SEE NOTE 4.
-- (1245) --	EXISTING CONTOUR
—— 1245 ——	PROPOSED CONTOUR
- - -	GRAVEL BAG
—SF—	SILT FENCE
—·—·—	FIBER ROLL
A	PROPOSED LOCATION FOR TEMPORARY TRASH ENCLOSURE PER CASQA WM-5
B	PROPOSED LOCATION FOR MATERIAL DELIVERY & STORAGE AREA PER CASQA WM-1
C	PROPOSED LOCATION FOR VEHICLE AND EQUIPMENT FUELING AREA PER CASQA NS-9
D	PROPOSED AREA FOR VEHICLE CLEANING AND MAINTENANCE PER CASQA NS-8 & NS-10
E	PROPOSED LOCATION FOR CONCRETE WASHOUT AREA PER CASQA WM-8

EROSION CONTROL NOTES:

① STABILIZED CONSTRUCTION ENTRANCE PER CASQA TC-1 AND DETAIL 1, SHEET C-105. PROVIDE TIRE WASH PER CASQA TC-3.
② STORM DRAIN INLET PROTECTION PER CASQA SE-10 AND DETAIL 2, SHEET C-105.
③ FIBER ROLLS PER CASQA SE-5 AND DETAIL 4, SHEET C-105
④ SILT FENCE PER CASQA SE-1 AND DETAIL 3, SHEET C-105. LOCATE INSIDE CONSTRUCTION FENCE
⑤ GRAVEL BAG BERM PER CASQA SE-6.

NOTE:

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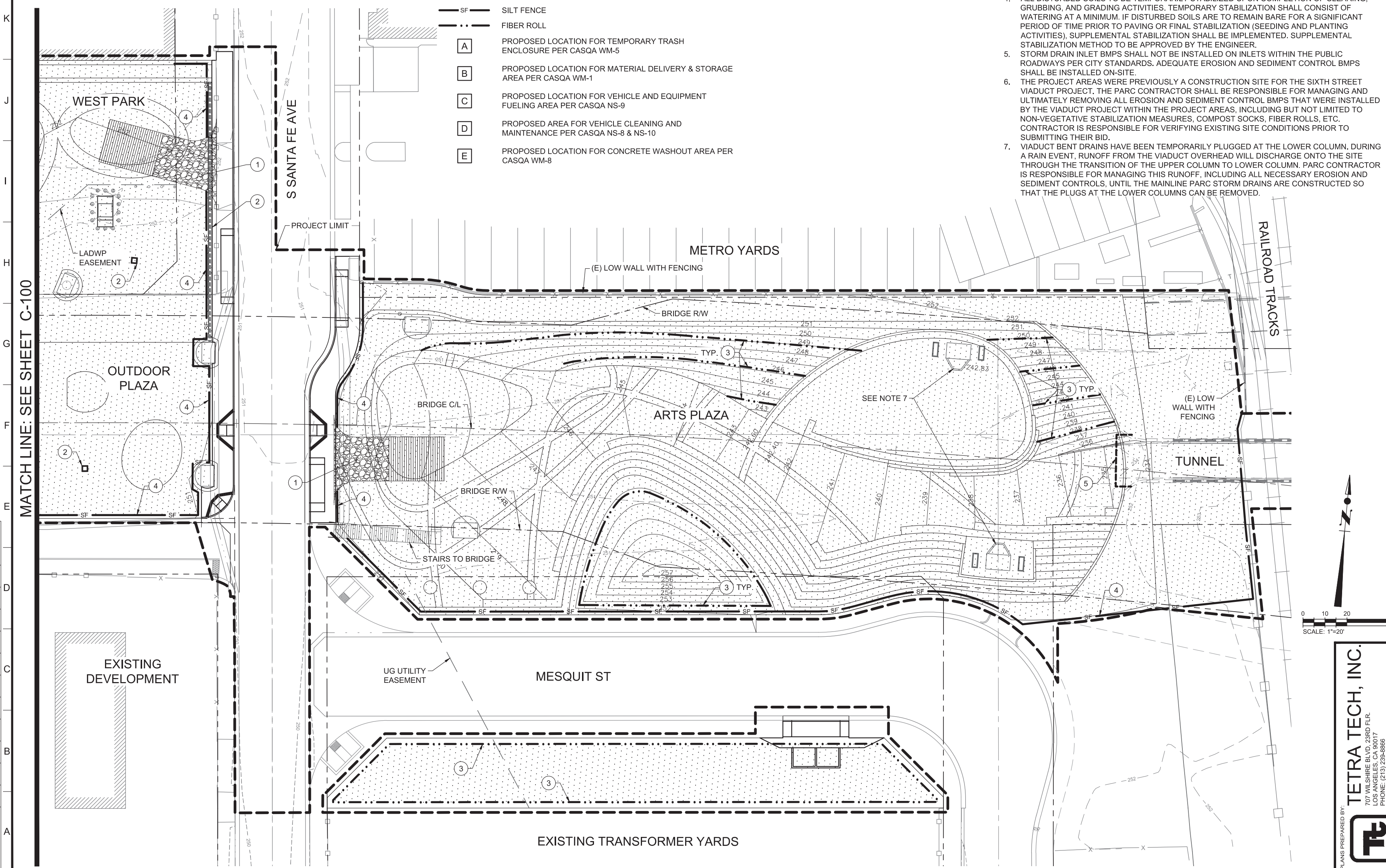
5. STORM DRAIN INLET BMPS SHALL NOT BE INSTALLED ON INLETS WITHIN THE PUBLIC ROADWAYS PER CITY STANDARDS. ADEQUATE EROSION AND SEDIMENT CONTROL BMPS SHALL BE INSTALLED ON-SITE.
6. THE PROJECT AREAS WERE PREVIOUSLY A CONSTRUCTION SITE FOR THE SIXTH STREET VIADUCT PROJECT. THE PARC CONTRACTOR SHALL BE RESPONSIBLE FOR MANAGING AND ULTIMATELY REMOVING ALL EROSION AND SEDIMENT CONTROL BMPS THAT WERE INSTALLED BY THE VIADUCT PROJECT WITHIN THE PROJECT AREAS, INCLUDING BUT NOT LIMITED TO NON-VEGETATIVE STABILIZATION MEASURES, COMPOST SOCKS, FIBER ROLLS, ETC. CONTRACTOR IS RESPONSIBLE FOR VERIFYING EXISTING SITE CONDITIONS PRIOR TO SUBMITTING THEIR BID.
7. VIADUCT BENT DRAINS HAVE BEEN TEMPORARILY PLUGGED AT THE LOWER COLUMN, DURING A RAIN EVENT, RUNOFF FROM THE VIADUCT OVERHEAD WILL DISCHARGE ONTO THE SITE THROUGH THE TRANSITION OF THE UPPER COLUMN TO LOWER COLUMN. PARC CONTRACTOR IS RESPONSIBLE FOR MANAGING THIS RUNOFF, INCLUDING ALL NECESSARY EROSION AND SEDIMENT CONTROLS, UNTIL THE MAINLINE PARC STORM DRAINS ARE CONSTRUCTED SO THAT THE PLUGS AT THE LOWER COLUMNS CAN BE REMOVED.



THE CITY OF LOS ANGELES OR ITS OFFICERS OR AGENTS SHALL NOT BE RESPONSIBLE FOR THE ACCURACY OR COMPLETENESS OF ELECTRONIC COPIES OF THIS PLAN SHEET.

REVISION DATES (DESIGN STAGE ONLY)

PLANS PREPARED BY:
TETRA TECH, INC.
707 WILSHIRE BLVD, 23RD FLR.
LOS ANGELES, CA 90017
PHONE: (213) 239-8866

CITY OF LOS ANGELES — DEPARTMENT OF PUBLIC WORKS — BUREAU OF ENGINEERING

VERT. CONTROL: BM 12-04070, 1929 (NGVD29) • 1985 ADJUSTMENT
HORIZ. CONTROL: GPS, PID AE 1704, EPOCH 1991.35

SHEET TITLE: EROSION AND SEDIMENT CONTROL PLAN SHEET 2
PROJECT: SIXTH STREET PARK, ARTS AND RIVER CONNECTIVITY IMPROVEMENTS (PARC)
ADDRESS: SIXTH STREET OVER THE LOS ANGELES RIVER

GARY LEE MOORE, P.E., ENV SP — CITY ENGINEER
DESIGN GROUP
ENGINEER: JUSTIN SMITH — LIC. NO. C-85736 — DATE: 07/11/22
DESIGNED BY: JUSTIN SMITH
DRAWN BY: DAVID LOPEZ
CHECKED BY: NATE SCHREINER
APPROVED BY: JASON L. FUSSEL

THIS PLAN WAS ELECTRONICALLY SIGNED AND STAMPED.
REGISTERED PROFESSIONAL ENGINEER — JUSTIN T. SMITH — No. 85736 — EXP.: 9-30-22 — CIVIL — STATE OF CALIFORNIA

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INDEX NO.
BUILDING NO.

ENGINEERING — CITY OF LOS ANGELES

WORK ORDER NO. E700235D
FILE NO. --
DRAWING NO. C-101
SHEET 22 OF 295 SHEETS

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Sheet Version 3.0

BID SET - NOT FOR CONSTRUCTION

LEGEND:

Symbol	Description
	TC-1 STABILIZED CONSTRUCTION ENTRANCE
	TEMPORARY SOIL STABILIZATION, SEE NOTE 4.
– – (1245) – –	EXISTING CONTOUR
—— 1245 ——	PROPOSED CONTOUR
	GRAVEL BAG
—SF—	SILT FENCE
	FIBER ROLL
A	PROPOSED LOCATION FOR TEMPORARY TRASH ENCLOSURE PER CASQA WM-5
B	PROPOSED LOCATION FOR MATERIAL DELIVERY & STORAGE AREA PER CASQA WM-1
C	PROPOSED LOCATION FOR VEHICLE AND EQUIPMENT FUELING AREA PER CASQA NS-9
D	PROPOSED AREA FOR VEHICLE CLEANING AND MAINTENANCE PER CASQA NS-8 & NS-10
E	PROPOSED LOCATION FOR CONCRETE WASHOUT AREA PER CASQA WM-8

EROSION CONTROL NOTES:

① STABILIZED CONSTRUCTION ENTRANCE PER CASQA TC-1 AND DETAIL 1, SHEET C-105. PROVIDE TIRE WASH PER CASQA TC-3.
② STORM DRAIN INLET PROTECTION PER CASQA SE-10 AND DETAIL 2, SHEET C-105.
③ FIBER ROLLS PER CASQA SE-5 AND DETAIL 4, SHEET C-105.
④ SILT FENCE PER CASQA SE-1 AND DETAIL 3, SHEET C-105. LOCATE INSIDE CONSTRUCTION FENCE

NOTE:

1. THESE PLANS ARE FOR REFERENCE ONLY. CONTRACTOR TO PREPARE PROJECT STORM WATER POLLUTION PREVENTION PLAN (SWPPP) PER SPECIFICATION SECTION 01571. REFER TO SPECIFICATIONS AND THE BEST MANAGEMENT PRACTICES FOR ADDITIONAL INFORMATION.
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3. EMPLOYEE AND NON-WORK VEHICLES TO PARK OFF SITE UNLESS OTHERWISE APPROVED BY CITY.
4. ALL DISTURBED SOILS TO BE TEMPORARILY STABILIZED UPON COMPLETION OF CLEARING, GRUBBING, AND GRADING ACTIVITIES. TEMPORARY STABILIZATION SHALL CONSIST OF WATERING AT A MINIMUM. IF DISTURBED SOILS ARE TO REMAIN BARE FOR A SIGNIFICANT PERIOD OF TIME PRIOR TO PAVING OR FINAL STABILIZATION (SEEDING AND PLANTING ACTIVITIES), SUPPLEMENTAL STABILIZATION SHALL BE IMPLEMENTED. SUPPLEMENTAL STABILIZATION METHOD TO BE APPROVED BY THE ENGINEER.
5. STORM DRAIN INLET BMPS SHALL NOT BE INSTALLED ON INLETS WITHIN THE PUBLIC ROADWAYS PER CITY STANDARDS. ADEQUATE EROSION AND SEDIMENT CONTROL BMPS SHALL BE INSTALLED ON-SITE.
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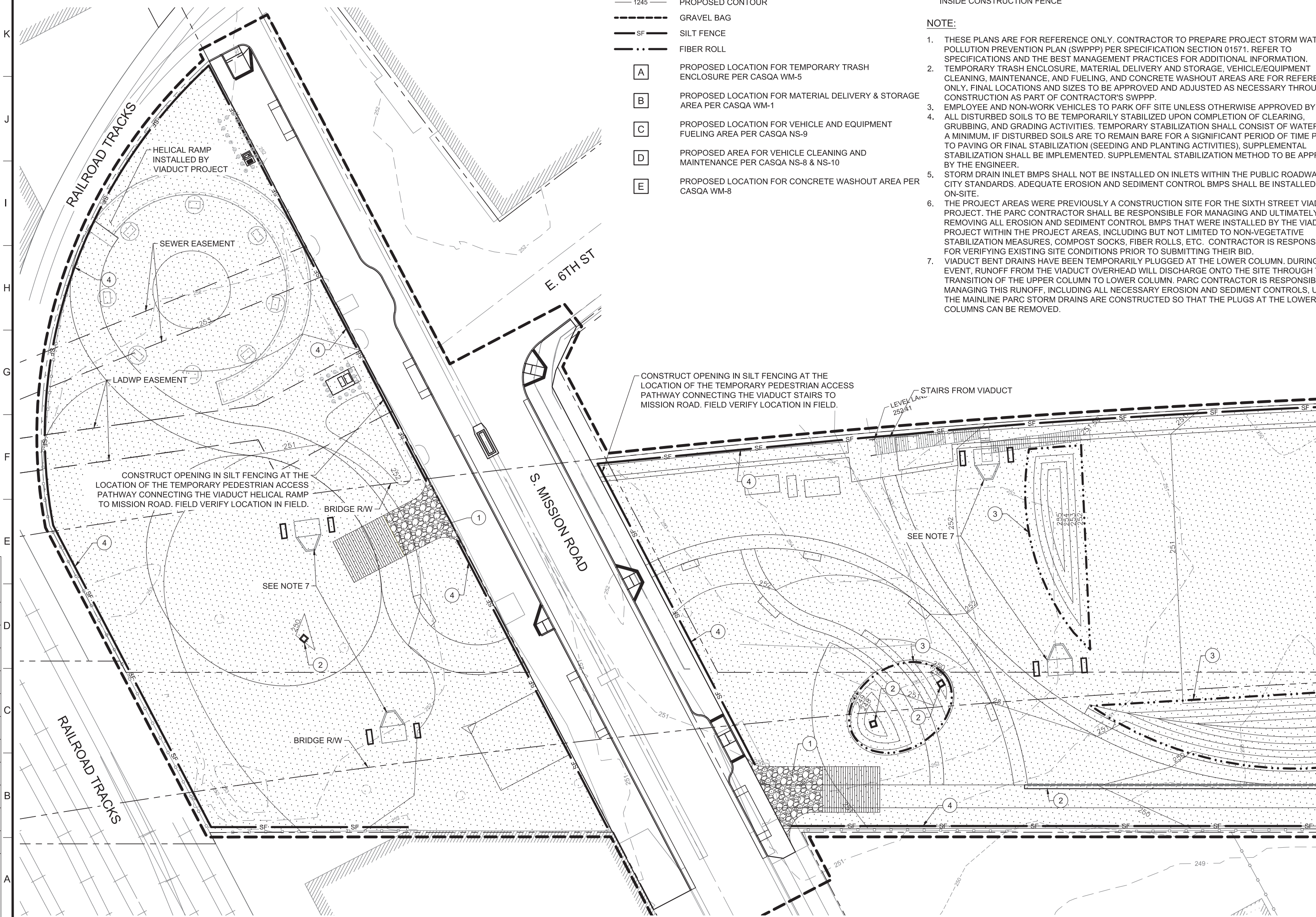

REVISION DATES (DESIGN STAGE ONLY)

PLANS PREPARED BY:
TETRA TECH, INC.
707 WILSHIRE BLVD. 23RD FLR.
LOS ANGELES, CA 90017
PHONE: (213) 239-8866

CITY OF LOS ANGELES — DEPARTMENT OF PUBLIC WORKS — BUREAU OF ENGINEERING

VERT. CONTROL: BM 12-04070, 1929 (NGVD29) • 1985 ADJUSTMENT
HORIZ. CONTROL: GPS; PID AE 1704, EPOCH 1991.35

SHEET TITLE: EROSION AND SEDIMENT CONTROL PLAN SHEET 3
PROJECT: SIXTH STREET PARK, ARTS AND RIVER CONNECTIVITY IMPROVEMENTS (PARC)
ADDRESS: SIXTH STREET OVER THE LOS ANGELES RIVER

GARY LEE MOORE, P.E., ENV SP — CITY ENGINEER
DESIGN GROUP
ENGINEER: JUSTIN SMITH LIC. NO. C-85736 DATE: 07/11/22
DESIGNED BY: JUSTIN SMITH
DRAWN BY: DAVID LOPEZ
CHECKED BY: NATE SCHREINER
APPROVED BY: JASON L. FUSSEL

THIS PLAN WAS ELECTRONICALLY SIGNED AND STAMPED

REGISTERED PROFESSIONAL ENGINEER — JUSTIN T. SMITH — No. 85736 — EXP. 9-30-22 — CIVIL — STATE OF CALIFORNIA

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INDEX NO.

BUILDING NO.

ENGINEERING — CITY OF LOS ANGELES

WORK ORDER NO. E700235D
FILE NO. --
DRAWING NO. C-102
SHEET 23 OF 295 SHEETS

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BID SET - NOT FOR CONSTRUCTION

LEGEND:

(pattern)	TC-1 STABILIZED CONSTRUCTION ENTRANCE
(pattern)	TEMPORARY SOIL STABILIZATION, SEE NOTE 4.
– – 1245 – –	EXISTING CONTOUR
—— 1245 ——	PROPOSED CONTOUR
– – – –	GRAVEL BAG
—SF—	SILT FENCE
—··—	FIBER ROLL
A	PROPOSED LOCATION FOR TEMPORARY TRASH ENCLOSURE PER CASQA WM-5
B	PROPOSED LOCATION FOR MATERIAL DELIVERY & STORAGE AREA PER CASQA WM-1
C	PROPOSED LOCATION FOR VEHICLE AND EQUIPMENT FUELING AREA PER CASQA NS-9
D	PROPOSED AREA FOR VEHICLE CLEANING AND MAINTENANCE PER CASQA NS-8 & NS-10
E	PROPOSED LOCATION FOR CONCRETE WASHOUT AREA PER CASQA WM-8

EROSION CONTROL NOTES:

① STABILIZED CONSTRUCTION ENTRANCE PER CASQA TC-1 AND DETAIL 1, SHEET C-105. PROVIDE TIRE WASH PER CASQA TC-3.
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③ FIBER ROLLS PER CASQA SE-5 AND DETAIL 4, SHEET C-105.
④ SILT FENCE PER CASQA SE-1 AND DETAIL 3, SHEET C-105. LOCATE INSIDE CONSTRUCTION FENCE

NOTE:

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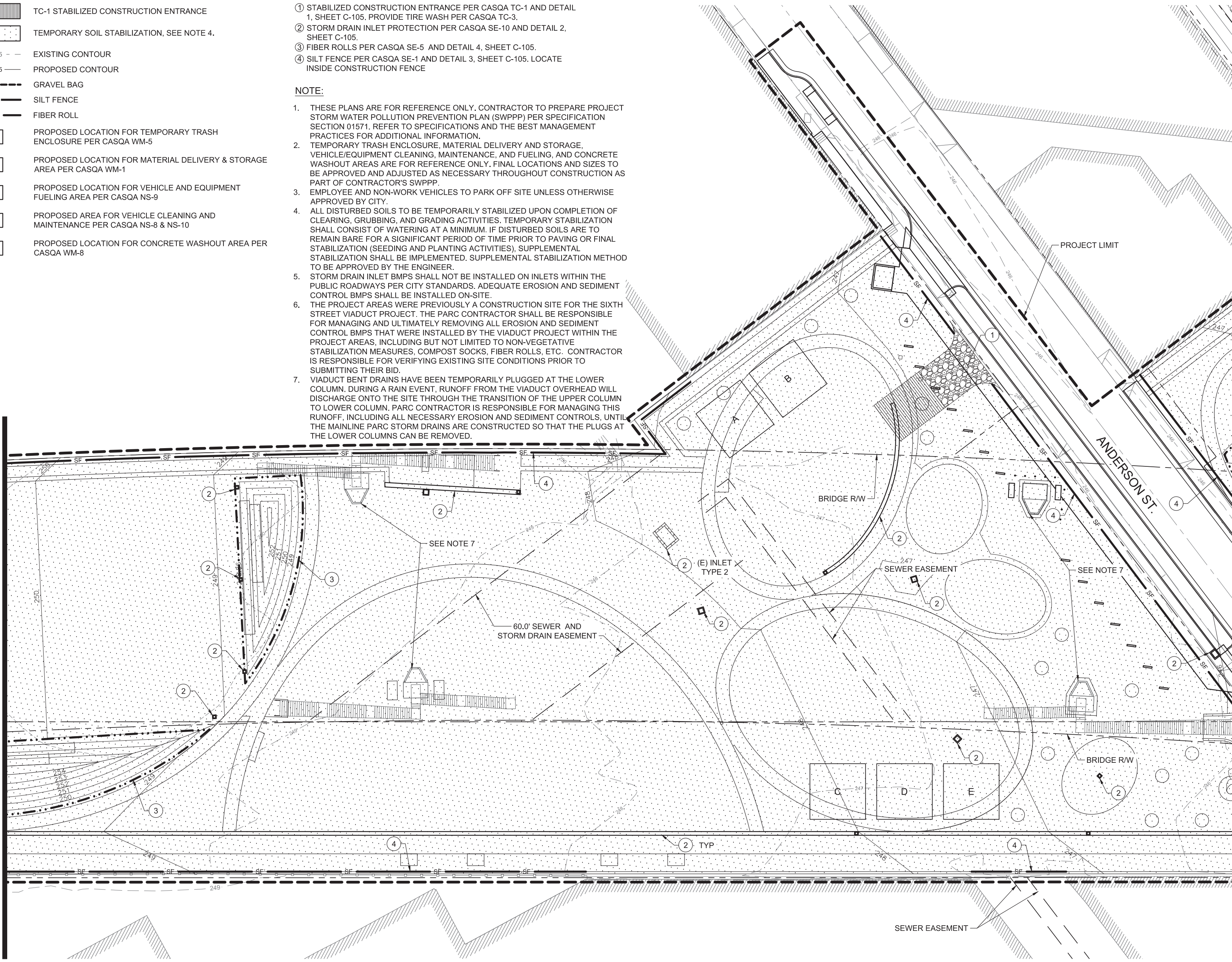
3. EMPLOYEE AND NON-WORK VEHICLES TO PARK OFF SITE UNLESS OTHERWISE APPROVED BY CITY.
4. ALL DISTURBED SOILS TO BE TEMPORARILY STABILIZED UPON COMPLETION OF CLEARING, GRUBBING, AND GRADING ACTIVITIES. TEMPORARY STABILIZATION SHALL CONSIST OF WATERING AT A MINIMUM. IF DISTURBED SOILS ARE TO REMAIN BARE FOR A SIGNIFICANT PERIOD OF TIME PRIOR TO PAVING OR FINAL STABILIZATION (SEEDING AND PLANTING ACTIVITIES), SUPPLEMENTAL STABILIZATION SHALL BE IMPLEMENTED. SUPPLEMENTAL STABILIZATION METHOD TO BE APPROVED BY THE ENGINEER.
5. STORM DRAIN INLET BMPS SHALL NOT BE INSTALLED ON INLETS WITHIN THE PUBLIC ROADWAYS PER CITY STANDARDS. ADEQUATE EROSION AND SEDIMENT CONTROL BMPS SHALL BE INSTALLED ON-SITE.
6. THE PROJECT AREAS WERE PREVIOUSLY A CONSTRUCTION SITE FOR THE SIXTH STREET VIADUCT PROJECT. THE PARC CONTRACTOR SHALL BE RESPONSIBLE FOR MANAGING AND ULTIMATELY REMOVING ALL EROSION AND SEDIMENT CONTROL BMPS THAT WERE INSTALLED BY THE VIADUCT PROJECT WITHIN THE PROJECT AREAS, INCLUDING BUT NOT LIMITED TO NON-VEGETATIVE STABILIZATION MEASURES, COMPOST SOCKS, FIBER ROLLS, ETC. CONTRACTOR IS RESPONSIBLE FOR VERIFYING EXISTING SITE CONDITIONS PRIOR TO SUBMITTING THEIR BID.
7. VIADUCT BENT DRAINS HAVE BEEN TEMPORARILY PLUGGED AT THE LOWER COLUMN. DURING A RAIN EVENT, RUNOFF FROM THE VIADUCT OVERHEAD WILL DISCHARGE ONTO THE SITE THROUGH THE TRANSITION OF THE UPPER COLUMN TO LOWER COLUMN. PARC CONTRACTOR IS RESPONSIBLE FOR MANAGING THIS RUNOFF, INCLUDING ALL NECESSARY EROSION AND SEDIMENT CONTROLS, UNTIL THE MAINLINE PARC STORM DRAINS ARE CONSTRUCTED SO THAT THE PLUGS AT THE LOWER COLUMNS CAN BE REMOVED.



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PLANS PREPARED BY:
TETRA TECH, INC.
707 WILSHIRE BLVD, 23RD FLR.
LOS ANGELES, CA 90017
PHONE: (213) 239-8866

CITY OF LOS ANGELES — DEPARTMENT OF PUBLIC WORKS — BUREAU OF ENGINEERING

VERT. CONTROL: BM 12-04070, 1929 (NGVD29) • 1985 ADJUSTMENT
HORIZ. CONTROL: GPS; PID AE 1704, EPOCH 1991.35

SHEET TITLE: EROSION AND SEDIMENT CONTROL PLAN SHEET 4
PROJECT: SIXTH STREET PARK, ARTS AND RIVER CONNECTIVITY IMPROVEMENTS (PARC)
ADDRESS: SIXTH STREET OVER THE LOS ANGELES RIVER

GARY LEE MOORE, P.E., ENV SP — CITY ENGINEER
DESIGN GROUP — DATE:
ENGINEER: JUSTIN SMITH — LIC. NO. C-85736 — 07/11/22
DESIGNED BY: JUSTIN SMITH
DRAWN BY: DAVID LOPEZ
CHECKED BY: NATE SCHREINER
APPROVED BY: JASON L. FUSSEL

THIS PLAN WAS ELECTRONICALLY SIGNED AND STAMPED.
REGISTERED PROFESSIONAL ENGINEER ★ JUSTIN T. SMITH ★ No. 85736 EXP. 9-30-22 CIVIL STATE OF CALIFORNIA

NO. | REVISIONS: | DATE | BY:

INDEX NO.

BUILDING NO.

ENGINEERING CITY OF LOS ANGELES

WORK ORDER NO. E700235D
FILE NO. --
DRAWING NO. C-103
SHEET 24 OF 295 SHEETS

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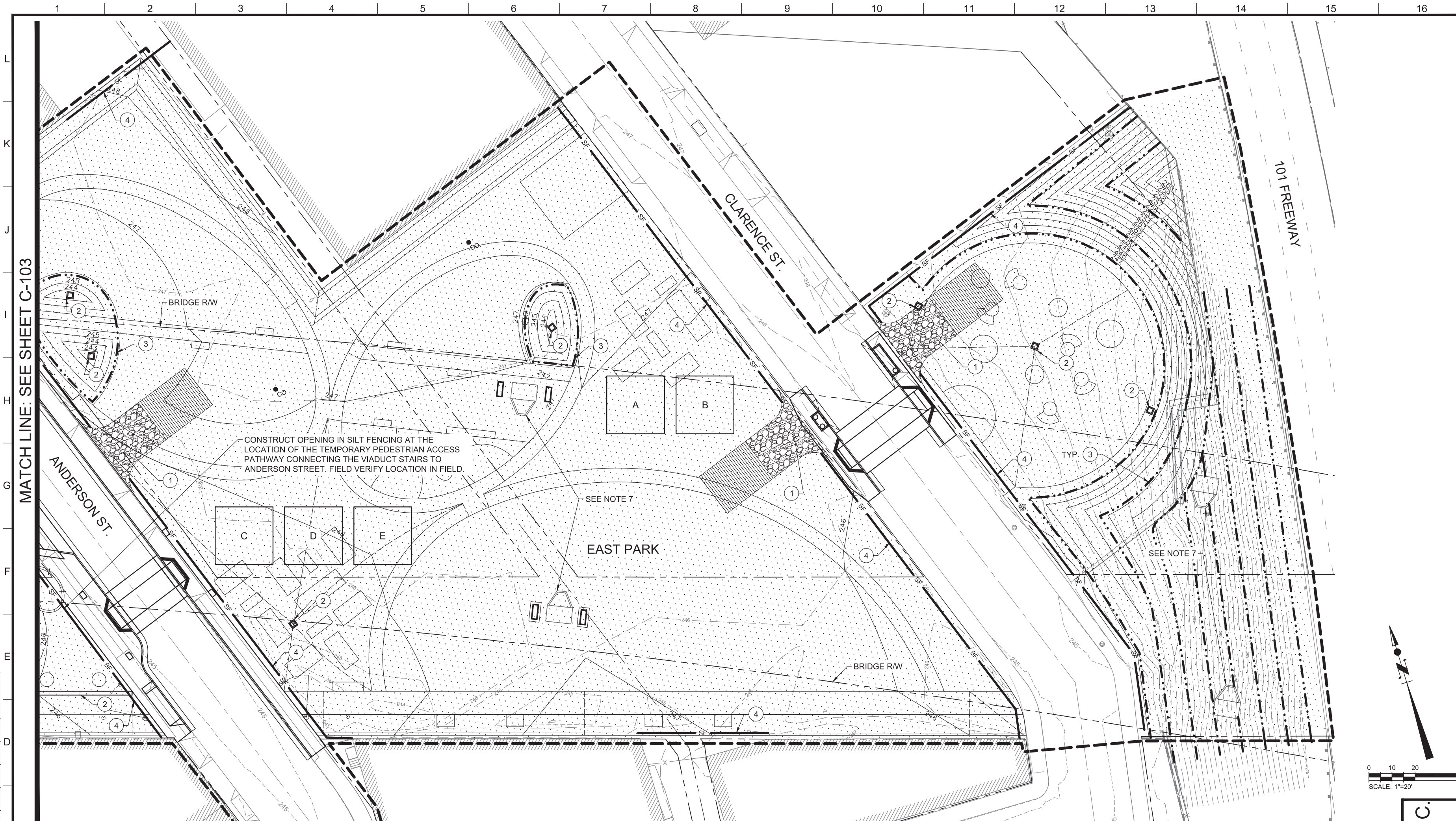

LEGEND:

TC-1 STABILIZED CONSTRUCTION ENTRANCE	
TEMPORARY SOIL STABILIZATION, SEE NOTE 4.	
— (1245) —	EXISTING CONTOUR
— 1245 —	PROPOSED CONTOUR
	GRAVEL BAG
— SF —	SILT FENCE
	FIBER ROLL

A PROPOSED LOCATION FOR TEMPORARY TRASH ENCLOSURE PER CASQA WM-5

B PROPOSED LOCATION FOR MATERIAL DELIVERY & STORAGE AREA PER CASQA WM-1

C PROPOSED LOCATION FOR VEHICLE AND EQUIPMENT FUELING AREA PER CASQA NS-9

D PROPOSED AREA FOR VEHICLE CLEANING AND MAINTENANCE PER CASQA NS-8 & NS-10

E PROPOSED LOCATION FOR CONCRETE WASHOUT AREA PER CASQA WM-8

EROSION CONTROL NOTES:

1. STABILIZED CONSTRUCTION ENTRANCE PER CASQA TC-1 AND DETAIL 1, SHEET C-105. PROVIDE TIRE WASH PER CASQA TC-3.
2. STORM DRAIN INLET PROTECTION PER CASQA SE-10 AND DETAIL 2, SHEET C-105.
3. FIBER ROLLS PER CASQA SE-5 AND DETAIL 4, SHEET C-105.
4. SILT FENCE PER CASQA SE-1 AND DETAIL 3, SHEET C-105. LOCATE INSIDE CONSTRUCTION FENCE
5. GRAVEL BAG BERM PER CASQA SE-6.

NOTE:

1. THESE PLANS ARE FOR REFERENCE ONLY. CONTRACTOR TO PREPARE PROJECT STORM WATER POLLUTION PREVENTION PLAN (SWPPP) PER SPECIFICATION SECTION 01571. REFER TO SPECIFICATIONS AND THE BEST MANAGEMENT PRACTICES FOR ADDITIONAL INFORMATION.
2. TEMPORARY TRASH ENCLOSURE, MATERIAL DELIVERY AND STORAGE, VEHICLE/EQUIPMENT CLEANING, MAINTENANCE, AND FUELING, AND CONCRETE WASHOUT AREAS ARE FOR REFERENCE ONLY. FINAL LOCATIONS AND SIZES TO BE APPROVED AND ADJUSTED AS NECESSARY THROUGHOUT CONSTRUCTION AS PART OF CONTRACTOR'S SWPPP.
3. EMPLOYEE AND NON-WORK VEHICLES TO PARK OFF SITE UNLESS OTHERWISE APPROVED BY CITY.
4. ALL DISTURBED SOILS TO BE TEMPORARILY STABILIZED UPON COMPLETION OF CLEARING, GRUBBING, AND GRADING ACTIVITIES. TEMPORARY STABILIZATION SHALL CONSIST OF WATERING AT A MINIMUM. IF DISTURBED SOILS ARE TO REMAIN BARE FOR A SIGNIFICANT PERIOD OF TIME PRIOR TO PAVING OR FINAL STABILIZATION (SEEDING AND PLANTING ACTIVITIES), SUPPLEMENTAL STABILIZATION SHALL BE IMPLEMENTED. SUPPLEMENTAL STABILIZATION METHOD TO BE APPROVED BY THE ENGINEER.
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6. THE PROJECT AREAS WERE PREVIOUSLY A CONSTRUCTION SITE FOR THE SIXTH STREET VIADUCT PROJECT. THE PARC CONTRACTOR SHALL BE RESPONSIBLE FOR MANAGING AND ULTIMATELY REMOVING ALL EROSION AND SEDIMENT CONTROL BMPS THAT WERE INSTALLED BY THE VIADUCT PROJECT WITHIN THE PROJECT AREAS, INCLUDING BUT NOT LIMITED TO NON-VEGETATIVE STABILIZATION MEASURES, COMPOST SOCKS, FIBER ROLLS, ETC. CONTRACTOR IS RESPONSIBLE FOR VERIFYING EXISTING SITE CONDITIONS PRIOR TO SUBMITTING THEIR BID.
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PLANS PREPARED BY:
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CITY OF LOS ANGELES — DEPARTMENT OF PUBLIC WORKS — BUREAU OF ENGINEERING

VERT. CONTROL: BM 12-04070, 1929 (NGVD29) • 1985 ADJUSTMENT
HORIZ. CONTROL: GPS; PID AE 1704, EPOCH 1991.35

SHEET TITLE: EROSION AND SEDIMENT CONTROL PLAN SHEET 5
PROJECT: SIXTH STREET PARK, ARTS AND RIVER CONNECTIVITY IMPROVEMENTS (PARC)
ADDRESS: SIXTH STREET OVER THE LOS ANGELES RIVER

GARY LEE MOORE, P.E., ENV SP — CITY ENGINEER
DESIGN GROUP — DATE:
ENGINEER: JUSTIN SMITH — LIC. NO. C-85736 — 07/11/22
DESIGNED BY: JUSTIN SMITH
DRAWN BY: DAVID LOPEZ
CHECKED BY: NATE SCHREINER
APPROVED BY: JASON L. FUSSEL

THIS PLAN WAS ELECTRONICALLY SIGNED AND STAMPED

REGISTERED PROFESSIONAL ENGINEER — JUSTIN T. SMITH — No. 85736 — EXP: 9-30-22 — CIVIL — STATE OF CALIFORNIA

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ENGINEERING — CITY OF LOS ANGELES

WORK ORDER NO. E700235D
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SHEET 25 OF 295 SHEETS

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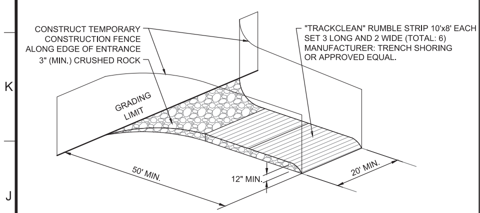
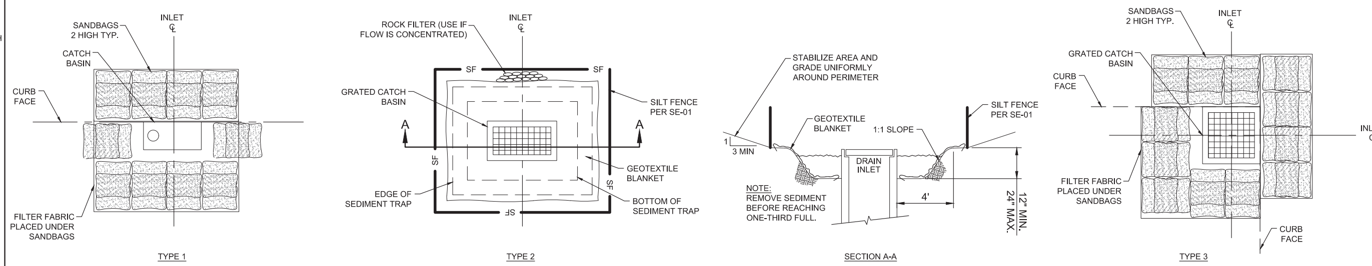


1 CASQA TC-1 STABILIZATION ENTRANCE

NTS REFERENCE SHEET C-100 THRU C-104



NOTE:
SAND AND GRAVEL BAGS TO BE CONSTRUCTED OF BURLAP.

2 CASQA SE-10 INLET PROTECTION

NTS REFERENCE SHEET C-100 THRU C-104

STORMWATER POLLUTION PREVENTION PLAN NOTES

ALL ACTIVITIES SHALL BE IN COMPLIANCE WITH ALL APPLICABLE REGULATIONS INCLUDING:

THE CALIFORNIA CONSTRUCTION GENERAL PERMIT FOR DISCHARGES OF STORM WATER ASSOCIATED WITH CONSTRUCTION AND LAND DISTURBANCE ACTIVITIES, ORDER NO. 2009-0009-DWQ, NPDES NO. CAS000002 (AS AMENDED BY 2010-0014-DWQ AND 2012-006-DWQ)

STATE OF CALIFORNIA, CALIFORNIA REGIONAL WATER QUALITY CONTROL BOARD, LOS ANGELES REGION, ORDER NO. R4-2021-0105, NPDES PERMIT NO. CAS004004, WASTE DISCHARGE REQUIREMENTS AND NATIONAL POLLUTANT DISCHARGE ELIMINATION SYSTEM (NPDES) PERMIT FOR MUNICIPAL SEPARATE STORM SEWER SYSTEM (MS4) DISCHARGES WITHIN THE COASTAL WATERSHEDS OF LOS ANGELES AND VENTURA COUNTIES.

1. AS PER STATE REGULATIONS ONLY A QUALIFIED SWPPP DEVELOPER (QSD) SHALL PREPARE, REVISE, AMEND AND MAINTAIN THE PROJECT'S SWPPP WHERE MORE THAN ONE ACRE IS DISTURBED.
2. AS PER STATE REGULATIONS ONLY A QUALIFIED SWPPP PRACTITIONER (QSP) SHALL IMPLEMENT, MONITOR AND MAINTAIN THE BMPS IDENTIFIED IN THE PROJECT SWPPP. INCLUDED IN THESE ACTIVITIES IS COMPLETION OF THE REQUIRED DOCUMENTATION MAINTAINED ON SITE.
3. ALL BMP CORRECTIONS SHALL BE COMPLETED WITHIN 72 HOURS (OR SOONER IF THERE'S A PREDICTED STORM*) OF INSPECTOR'S NOTIFICATION TO CONTRACTOR. NOTE: NOTIFICATION IS BY ANY METHOD INCLUDING VERBAL, WRITTEN, EMAIL, ETCETERA.
* BMP CORRECTIONS SHALL BE COMPLETED BEFORE THE PREDICTED STORM.
4. SOIL DISTURBANCE SHALL BE MINIMIZED AS MUCH AND/OR AS LONG AS POSSIBLE.
5. SOIL AND/OR SEDIMENT EROSION SHALL BE MINIMIZED THROUGH THE IMPLEMENTATION OF BEST MANAGEMENT PRACTICES (BMPS). EROSION CONTROLS ARE THE HIGHEST BMP PRIORITY AND SHALL NOT BE REDUCED BECAUSE OF ENHANCED SEDIMENT CONTROLS.
6. SOIL AND ALL OTHER MATERIALS SHALL NOT LEAVE THE SITE EITHER THROUGH STORM WATER RUNOFF, NON-STORM WATER RUNOFF, EQUIPMENT TRACKING OR TRANSPORT OR BY WIND.
7. SITE EXIT(S) FROM UNSTABILIZED AREAS SHALL BE STABILIZED WITH A GRAVEL PAD OF AT LEAST 3" ROCK, AT LEAST 12" DEEP, WITH ADEQUATE LENGTH (GENERALLY 50FT) AND WIDTH TO ACCOMMODATE ALL CONSTRUCTION TRAFFIC EXITING THE SITE. THE STABILIZED EXIT SHALL BE CONSTRUCTED SUCH THAT IT CAN NOT BE CIRCUMVENTED BY EXITING VEHICLES. THE STABILIZED EXIT SHALL BE DEEMED INADEQUATE AND IN NEED OF IMPROVEMENT WHEN TRACKING IS PRESENT. REGULAR MAINTENANCE SHALL BE COMPLETED TO KEEP GRAVEL VOIDS OPEN AND SHAKER-PLATES CLEAN.
8. NON-STORM WATER DISCHARGES ARE NOT PERMITTED.
9. ALL SPILLS SHALL BE CLEANED IMMEDIATELY. A SPILL RESPONSE KIT WITH ABSORBENT MATERIALS (INCLUDING BOOMS, PILLOWS AND GRANULES), A SCOOP OR SHOVEL AND A COVERED CONTAINER WITH SECURABLE COVER SHALL BE KEPT ON-SITE DURING THE ENTIRE PROJECT. WORKERS SHALL BE TRAINED IN ITS LOCATION AND CORRECT CLEAN-UP PROCEDURES. ALL POWERED EQUIPMENT SHALL BE KEPT OVER IMPERVIOUS CONTAINMENT DURING NON-WORK HOURS.
10. BULK STORAGE, GREATER-THAN-OR-EQUAL-TO 50 GALLONS, OF ANY LIQUID, OTHER THAN CLEAN WATER, SHALL NOT BE ALLOWED ON THE PROJECT SITE. EQUIPMENT FUELING SHALL OCCUR THROUGH A WET-HOSE OPERATION FROM PERIODIC SERVICE TRUCK VISITS.
11. WET OR UNCURED PORTLAND CEMENT CONCRETE (PCC) SHALL ONLY BE PLACED IN A DESIGNATED PCC WASHOUT CONTAINER. THE PCC WASHOUT CONTAINER SHALL BE ABOVE-GROUND AND LIQUID-TIGHT, PCC WASHOUT WASTEWATER SHALL BE REMOVED AND PROPERLY DISPOSED OF PRIOR TO MOVING THE PCC WASHOUT CONTAINER. ALL PCC DELIVERY TRUCKS, FINISHING TOOLS, BOOTS, ON-SITE MIXERS, GROUTS, MORTAR AND OTHER CEMENTITIOUS-BASED MATERIALS SHALL ONLY CLEANED OVER THE PCC WASHOUT. THE PCC WASHOUT SHALL HAVE A 6" DEEP GRAVEL BED PLACED WHERE TRUCK TRAFFIC WILL DRIVE ADJACENT TO IT WHEN THE QUANTITY OF WASHOUT CREATES MUD. ADDITIONAL PCC WASHOUT SHALL BE ADDED WHEN THERE WILL BE MORE THAN TWO PCC DELIVERY TRUCKS WASHING OUT AT ANY ONE TIME. PLASTIC SHALL BE PLACED UNDER ANY MIXING OR PUMPING OPERATIONS WHERE MATERIAL MAY SPILL.
12. STOCKPILES OF SOIL; SAND; BEDDING; WOOD CHIPS; MULCH; SOIL AMENDMENTS; FERTILIZERS; DEMOLITION WASTES INCLUDING AC, PCC, MASONRY, LUMBER, STEEL, GLASS, PLASTICS, VEGETATION, ETCETERA SHALL BE PLACED UPON A BARRIER SUCH AS PLASTIC SHEETING OR AN IMPERVIOUS SURFACE AND COMPLETELY COVERED WITH PLASTIC SHEETING. THE PLASTIC SHEETING SHALL BE SECURELY ANCHORED AND WILL RESIST WIND OR OTHER NATURAL FORCES WHICH MAY TRY TO REMOVE IT. ALL STOCKPILES SHALL BE INSPECTED EACH WORKING DAY AND AS-NEEDED DURING NON-WORK HOURS.
13. CONSTRUCTION WASTE, SHIPPING AND/OR PACKAGING MATERIALS, SURPLUS SUPPLIES, LITTER AND CONSTRUCTION DEBRIS SHALL BE PLACED IN DESIGNATED WASTE OR RECYCLING CONTAINERS AT THE END OF THE DAY IT'S GENERATED. WASTE CONTAINERS SHALL BE COVERED DURING NON-WORK HOURS OR WHEN THERE'S A PREDICTION OF RAIN OR WIND.
14. HAZARDOUS MATERIALS SHALL BE KEPT IN THEIR ORIGINAL CONTAINERS, CLOSED AND CAPPED. ALL CONTAINERS SHALL BE KEPT IN SECONDARY CONTAINMENT, UNDER-COVER IN A SECURED FACILITY.
15. TEMPORARY TOILETS SHALL BE PLACED UPON A LEVEL SURFACE, NO CLOSER THAN 75 FEET UPSTREAM OF A STORM DRAIN INLET OR DRAINAGE CHANNEL AND UTILIZE SECONDARY CONTAINMENT. TEMPORARY TOILETS SHALL BE REGULARLY SERVICED.
16. ALL DISTURBED AREAS NOT STABILIZED BY PROJECT IMPROVEMENTS SHALL BE STABILIZED BY THE CONTRACTOR AT THE END PROJECT. STABILIZATION SHALL USE MATERIALS DESCRIBED IN CASQA'S BMP FACT SHEET EC-5, "SOIL BINDERS" WITH A LONG-LIVED APPLICATION. THE MATERIAL SELECTED SHALL BE APPROPRIATE FOR THE SOIL TYPE AND CONDITIONS OF THE SITE.
17. THE FOLLOWING CALIFORNIA STORMWATER QUALITY ASSOCIATION (CASQA) CONSTRUCTION BMP FACT SHEETS FOR CONTROLLING: EROSION, SEDIMENT, TRACKING, WIND EROSION, NON-STORMWATER MANAGEMENT AND WASTE MANAGEMENT & MATERIALS POLLUTION WHEN APPLICABLE SHALL BE IMPLEMENTED ON THE THIS PROJECT:

EROSION CONTROL

EC1 - SCHEDULING
EC2 - PRESERVATION OF EXISTING VEGETATION
EC3 - HYDRAULIC MULCH
EC4 - HYDROSEEDING
EC5 - SOIL BINDERS
EC6 - STRAW MULCH
EC7 - GEOTEXTILES AND MATS
EC8 - WOOD MULCHING
EC9 - EARTH DIKES AND DRAINAGE SWALES
EC10 - VELOCITY DISSIPATION DEVICES
EC11 - SLOPE DRAINS
EC12 - STREAMBANK
EC13 - RESERVED (FORMERLY PAM)
EC14 - COMPOST BLANKET
EC15 - SOIL PREPARATION/ROUGHENING
EC16 - NON-VEGETATIVE STABILIZATION

NON-STORMWATER MANAGEMENT

NS1 - WATER CONSERVATION PRACTICES
NS2 - DEWATERING OPERATIONS
NS3 - PAVING AND GRINDING OPERATIONS
NS4 - TEMPORARY STREAM CROSSING
NS5 - CLEAR WATER DIVERSION
NS6 - ILLICIT CONNECTION / DISCHARGE
NS7 - POTABLE WATER / IRRIGATION
NS8 - VEHICLE AND EQUIPMENT CLEANING
NS9 - VEHICLE AND EQUIPMENT FUELING
NS10 - VEHICLE AND EQUIPMENT MAINTENANCE
NS11 - PILE DRIVING OPERATIONS
NS12 - CONCRETE CURING
NS13 - CONCRETE FINISHING
NS14 - MATERIAL AND EQUIPMENT USE
NS15 - DEMOLITION ADJACENT TO WATER
NS16 - TEMPORARY BATCH PLANTS

TEMPORARY SEDIMENT CONTROL

SE1 - SILT FENCE
SE2 - SEDIMENT BASIN
SE3 - SEDIMENT TRAP
SE4 - CHECK DAMS
SE5 - FIBER ROLLS
SE6 - GRAVEL BAG BERM
SE7 - STREET SWEEPING AND VACUUMING
SE8 - SANDBAG BARRIER
SE9 - STRAW BALE BARRIER
SE10 - STORM DRAIN INLET PROTECTION
SE11 - ACTIVE TREATMENT SYSTEMS
SE12 - TEMPORARY SILT DIKE
SE13 - COMPOST SOCKS AND BERMS
SE14 - BIOFILTER BAGS

WIND EROSION CONTROL

WE1 - WIND EROSION CONTROL

WASTE MANAGEMENT & MATERIAL POLLUTION CONTROL

WM1 - MATERIAL DELIVERY AND STORAGE
WM2 - MATERIAL USE
WM3 - STOCKPILE MANAGEMENT
WM4 - SPILL PREVENTION AND CONTROL
WM5 - SOLID WASTE MANAGEMENT
WM6 - HAZARDOUS WASTE MANAGEMENT
WM7 - CONTAMINATION SOIL MANAGEMENT
WM8 - CONCRETE WASTE MANAGEMENT
WM9 - SANITARY / SEPTIC WASTE MANAGEMENT
WM10 - LIQUID WASTE MANAGEMENT

EQUIPMENT TRACKING CONTROL

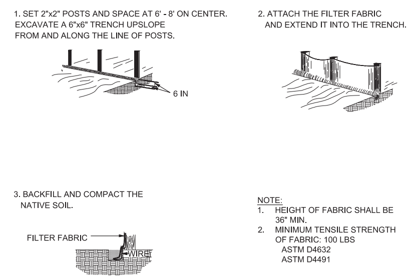
TC1 - STABILIZED CONSTRUCTION ENTRANCE/EXIT
TC2 - STABILIZED CONSTRUCTION ROADWAY
TC3 - ENTRANCE / OUTLET TIRE WASH

THE CONTRACTOR SHALL MONITOR AND DOCUMENT THE WEATHER DAILY THROUGH THE NATIONAL OCEANIC AND ATMOSPHERIC ADMINISTRATION (NOAA) WEBSITE AT: HTTP://FORECAST.WEATHER.GOV

EROSION CONTROL BMPS ARE THE PRIMARY MEANS TO PREVENT CONTAMINATION. INADEQUATE EROSION CONTROL BMPS SHALL NOT BE JUSTIFIED BY ADDITIONAL SEDIMENT CONTROL BMPS.

EVERY EFFORT SHALL BE MADE TO AVOID THE EXPOSURE OF CONSTRUCTION MATERIALS TO RAINFALL AND RUNOFF.

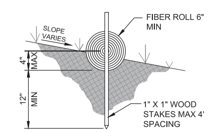
INADEQUATE POLLUTION PREVENTION BMPS SHALL NOT BE JUSTIFIED BY INCREASED TREATMENT BMPS.



NOTE:
1. HEIGHT OF FABRIC SHALL BE 36" MIN.
2. MINIMUM TENSILE STRENGTH OF FABRIC: 100 LBS
ASTM D4632
ASTM D4491

3 CASQA SE-1 SILT FENCE DETAIL

NTS REFERENCE SHEET C-100 THRU C-104



4 CASQA SE-5 FIBER ROLLS

NTS REFERENCE SHEET C-100 THRU C-104

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SHEET TITLE: EROSION AND SEDIMENT CONTROL DETAILS
PROJECT: SIXTH STREET PARK, ARTS AND RIVER CONNECTIVITY IMPROVEMENTS (PARC)
ADDRESS: SIXTH STREET OVER THE LOS ANGELES RIVER

GARY LEE MOORE, P.E., ENV SP — CITY ENGINEER
DESIGN GROUP
ENGINEER: JUSTIN SMITH LIC. NO. C-85736 DATE: 07/11/22
DESIGNED BY: JUSTIN SMITH
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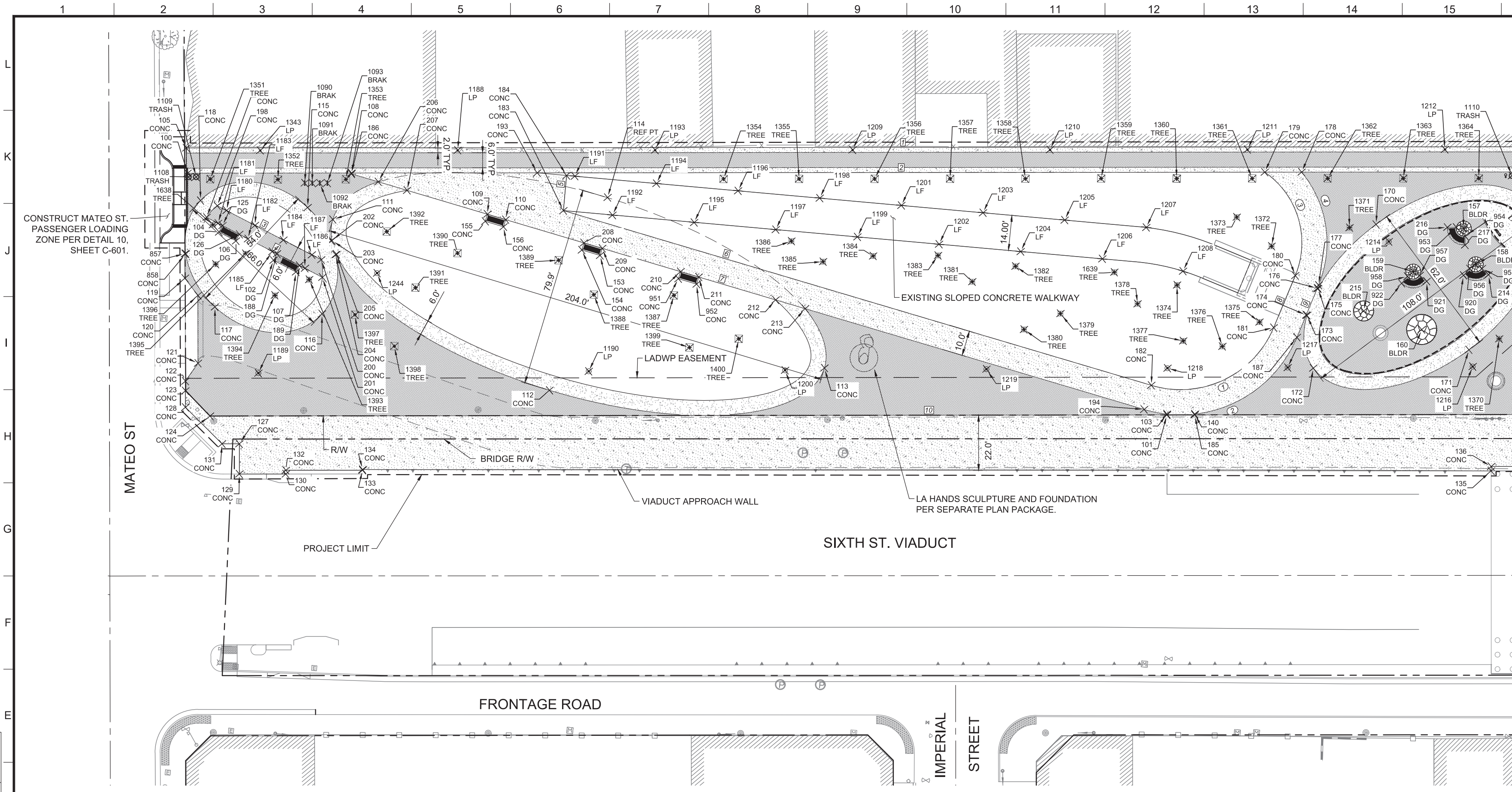


LEGEND:

▬ ▬ ▬	LIMITS OF WORK (2' OFFSET SHOWN FOR CLARITY)
— — —	PROPERTY LINE
— — —	EASEMENT BOUNDARY LINE
BLDR	LANDSCAPE BOULDER
CONC	CONCRETE PAVEMENT
DG	DECOMPOSED GRANITE PAVEMENT
REF PT	REFERENCE POINT
LF	LIGHT FIXTURE
LP	LIGHT POLE
BRAK	BIKE RACK
TRASH	TRASH BIN
TREE	TREE MISCELLANEOUS

NOTES:

1. DIMENSIONS ARE FROM FACE OF CURB
2. [XXX]-FOR LINE DATA TABLE, SEE SHEET C-205
3. (XXX)-FOR CURVE DATA TABLE, SEE SHEET C-206
4. FOR POINT TABLE, SEE SHEETS C-207 THRU C-213
5. DESIGN OF THE PARKING STALLS AND ACCESSIBLE PARKING ARE PER STREET PLANS.
6. HORIZONTAL CONTROL FOR STORM DRAIN, SEWER, AND POTABLE WATER IMPROVEMENTS PER RESPECTIVE UTILITY SHEETS.
7. HORIZONTAL CONTROL FOR STREET IMPROVEMENTS PER STREET PLANS.
8. REFER TO LANDSCAPE PLANS FOR ADDITIONAL INFORMATION ON SITE FURNISHINGS AND LANDSCAPING.
9. REFER TO LANDSCAPE HARDSCAPE PLANS AND SCHEDULES FOR PAVEMENT JOINT LOCATIONS, FINISHES, ADMIXTURES, COLORS, ETC.

MATERIALS LEGEND:

- PVMT 1 - STONE UNIT PAVERS - DTL 1, SHT C-609
- PVMT 2 A/B - CIP CONCRETE - DTL 2, SHT C-609
- PVMT 3 - CIP CONCRETE - DTL 3, SHT C-609
- PVMT 4 - COATED CONCRETE - DTL 3, SHT C-609
- PVMT 5 - CONCRETE UNIT PAVERS - DTL 4, SHT C-609
- PVMT 6 A/B - CRUSHED STONE - DTL 5, SHT C-609
- PVMT 7 - CRUSHED STONE ADMIXTURE - DTL 5, SHT C-609
- PVMT 8 - TUNNEL RESURFACING - DTL 9, SHT C-601
- PVMT 9 A/B - COATED ASPHALT - DTL 6, SHT C-609
- PVMT 10 A/B - SAFETY SURFACING - DTL 7, SHT C-609
- PVMT 11 - SYNTHETIC GRASS - DTL 1, SHT C-601

N

0 10 20 40
SCALE: 1"=20'

PLANS PREPARED BY:
TETRA TECH, INC.
707 WILSHIRE BLVD. 23RD FLR.
LOS ANGELES, CA 90017
PHONE: (213) 239-8866

CITY OF LOS ANGELES — DEPARTMENT OF PUBLIC WORKS — BUREAU OF ENGINEERING

VERT. CONTROL: BM 12-04070, 1929 (NGVD29) + 1985 ADJUSTMENT
HORIZ. CONTROL: GPS; PID AE 1704, EPOCH 1991.35

SHEET TITLE: HORIZONTAL CONTROL PLAN SHEET 1
PROJECT: SIXTH STREET PARK, ARTS AND RIVER CONNECTIVITY IMPROVEMENTS (PARC)
ADDRESS: SIXTH STREET OVER THE LOS ANGELES RIVER

GARY LEE MOORE, P.E., ENV SP — CITY ENGINEER — DATE:
DESIGN GROUP
ENGINEER: JUSTIN SMITH — LIC. NO. C-85736 — 07/11/22
DESIGNED BY: JUSTIN SMITH
DRAWN BY: MARK CARLOS
CHECKED BY: NATE SCHREINER
APPROVED BY: JASON L. FUSSEL

REGISTERED PROFESSIONAL ENGINEER — JUSTIN T. SMITH — No. 85736 — EXP. 9-30-22 — CIVIL — STATE OF CALIFORNIA
THIS PLAN WAS ELECTRONICALLY SIGNED AND STAMPED.

NO.	REVISIONS:	DATE:	BY:

INDEX NO.
BUILDING NO.

ENGINEERING — CITY OF LOS ANGELES

WORK ORDER NO. E700235D
FILE NO. --
DRAWING NO. C-200
SHEET 27 OF 295 SHEETS

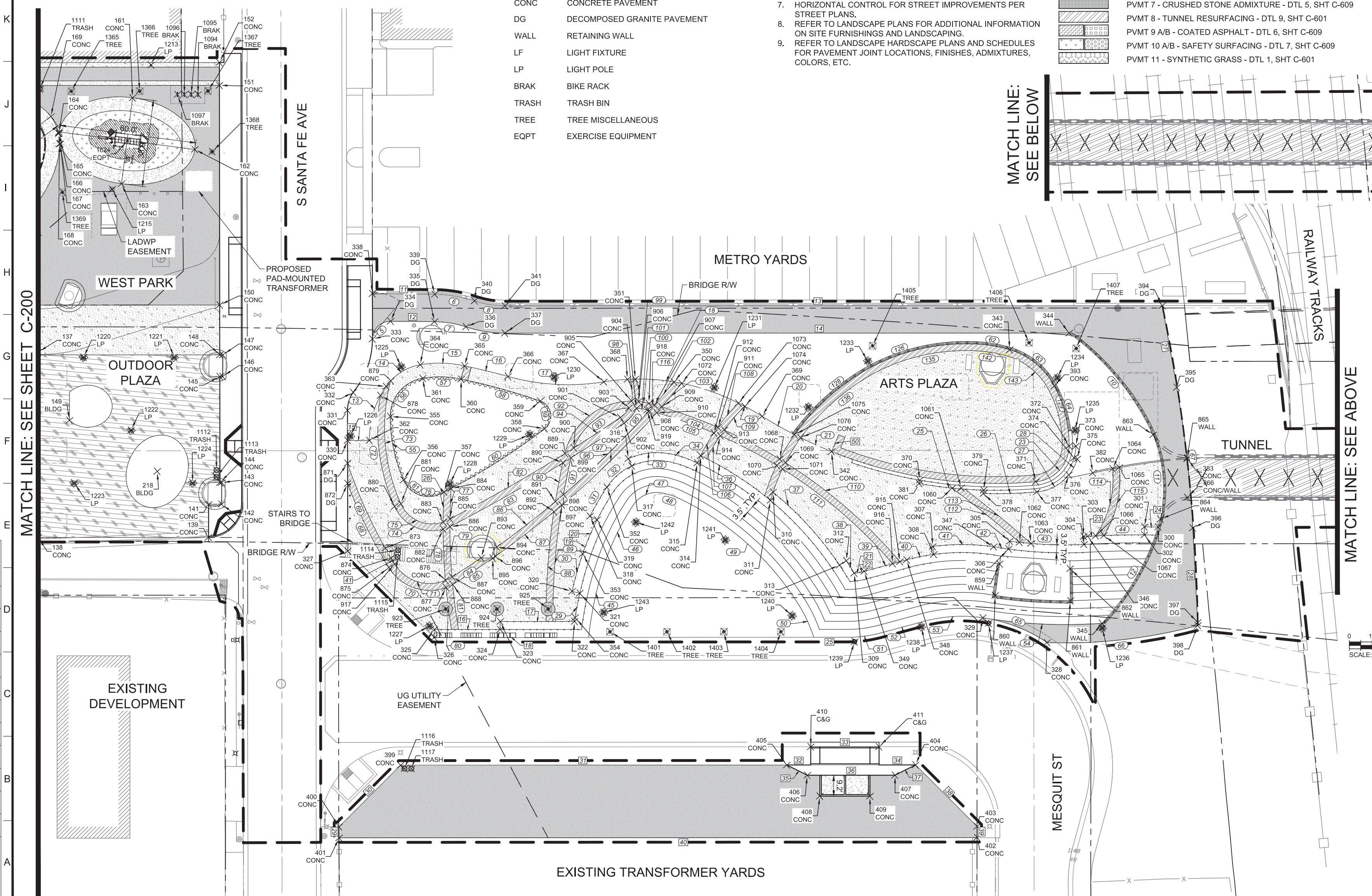
BID SET - NOT FOR CONSTRUCTION

THE CITY OF LOS ANGELES OR ITS OFFICERS OR AGENTS SHALL NOT BE RESPONSIBLE FOR THE ACCURACY OR COMPLETENESS OF ELECTRONIC COPIES OF THIS PLAN SHEET.

REVISION DATES (DESIGN STAGE ONLY)

Sheet Version 3.0

7/11/2022 8:50:00 AM - O:\PROJECTS\IRVINE\200\43\200-20043-17001\CAD\SHEETFILES\C-200_HORIZONTAL CONTROL PLAN - TT.DWG - SMITH, JUSTIN



LEGEND:

▬ ▬ ▬	LIMITS OF WORK (2' OFFSET SHOWN FOR CLARITY)
— — —	PROPERTY LINE
— - —	EASEMENT BOUNDARY LINE
BLDG	BUILDING
C&G	CURB AND GUTTER
CONC	CONCRETE PAVEMENT
DG	DECOMPOSED GRANITE PAVEMENT
WALL	RETAINING WALL
LF	LIGHT FIXTURE
LP	LIGHT POLE
BRAK	BIKE RACK
TRASH	TRASH BIN
TREE	TREE MISCELLANEOUS
EQPT	EXERCISE EQUIPMENT

NOTES:

1. DIMENSIONS ARE FROM FACE OF CURB
2. XXX-FOR LINE DATA TABLE, SEE SHEET C-205
3. (XXX)-FOR CURVE DATA TABLE, SEE SHEET C-206
4. FOR POINT TABLE, SEE SHEETS C-207 THRU C-213
5. DESIGN OF THE PARKING STALLS AND ACCESSIBLE PARKING ARE PER STREET PLANS.
6. HORIZONTAL CONTROL FOR STORM DRAIN, SEWER, AND POTABLE WATER IMPROVEMENTS PER RESPECTIVE UTILITY SHEETS.
7. HORIZONTAL CONTROL FOR STREET IMPROVEMENTS PER STREET PLANS.
8. REFER TO LANDSCAPE PLANS FOR ADDITIONAL INFORMATION ON SITE FURNISHINGS AND LANDSCAPING.
9. REFER TO LANDSCAPE HARDSCAPE PLANS AND SCHEDULES FOR PAVEMENT JOINT LOCATIONS, FINISHES, ADMIXTURES, COLORS, ETC.

MATERIALS LEGEND:

- PVMT 1 - STONE UNIT PAVERS - DTL 1, SHT C-609
- PVMT 2 A/B - CIP CONCRETE - DTL 2, SHT C-609
- PVMT 3 - CIP CONCRETE - DTL 3, SHT C-609
- PVMT 4 - COATED CONCRETE - DTL 3, SHT C-609
- PVMT 5 - CONCRETE UNIT PAVERS - DTL 4, SHT C-609
- PVMT 6 A/B - CRUSHED STONE - DTL 5, SHT C-609
- PVMT 7 - CRUSHED STONE ADMIXTURE - DTL 5, SHT C-609
- PVMT 8 - TUNNEL RESURFACING - DTL 9, SHT C-601
- PVMT 9 A/B - COATED ASPHALT - DTL 6, SHT C-609
- PVMT 10 A/B - SAFETY SURFACING - DTL 7, SHT C-609
- PVMT 11 - SYNTHETIC GRASS - DTL 1, SHT C-601

CITY OF LOS ANGELES — DEPARTMENT OF PUBLIC WORKS — BUREAU OF ENGINEERING

PLANS PREPARED BY: TETRA TECH, INC.
707 WILSHIRE BLVD. 23RD FLR.
LOS ANGELES, CA 90017
PHONE: (213) 239-8866

VERT. CONTROL: BM 12-04070, 1929 (NGVD29) - 1985 ADJUSTMENT
HORIZ. CONTROL: GPS; PID AE 1704, EPOCH 1991.35

SHEET TITLE: HORIZONTAL CONTROL PLAN SHEET 2
PROJECT: SIXTH STREET PARK, ARTS AND RIVER CONNECTIVITY IMPROVEMENTS (PARC)
ADDRESS: SIXTH STREET OVER THE LOS ANGELES RIVER

GARY LEE MOORE, P.E., ENV SP — CITY ENGINEER
DESIGN GROUP — DATE
ENGINEER: JUSTIN SMITH — LIC. NO. C-85736 — 07/11/22
DESIGNED BY: JUSTIN SMITH
DRAWN BY: MARK CARLOS
CHECKED BY: NATE SCHREINER
APPROVED BY: JASON L. FUSSEL

THIS PLAN WAS ELECTRONICALLY SIGNED AND STAMPED.
REGISTERED PROFESSIONAL ENGINEER — JUSTIN T. SMITH — No. 85736 — EXP. 9-30-22 — CIVIL — STATE OF CALIFORNIA

NO. | REVISIONS | DATE | BY
INDEX NO.
BUILDING NO.

WORK ORDER NO. E700235D
FILE NO. --
DRAWING NO. C-201
SHEET 28 OF 295 SHEETS

7/11/2022 2:27:19 AM - O:\PROJECTS\IRVINE\20043\200-20043-17001\CAD\SHEETFILES\C-201_HORIZONTAL CONTROL PLAN - TT.DWG - SMITH, JUSTIN

THE CITY OF LOS ANGELES OR ITS OFFICERS OR AGENTS SHALL NOT BE RESPONSIBLE FOR THE ACCURACY OR COMPLETENESS OF ELECTRONIC COPIES OF THIS PLAN SHEET.

REVISION DATES (DESIGN STAGE ONLY)

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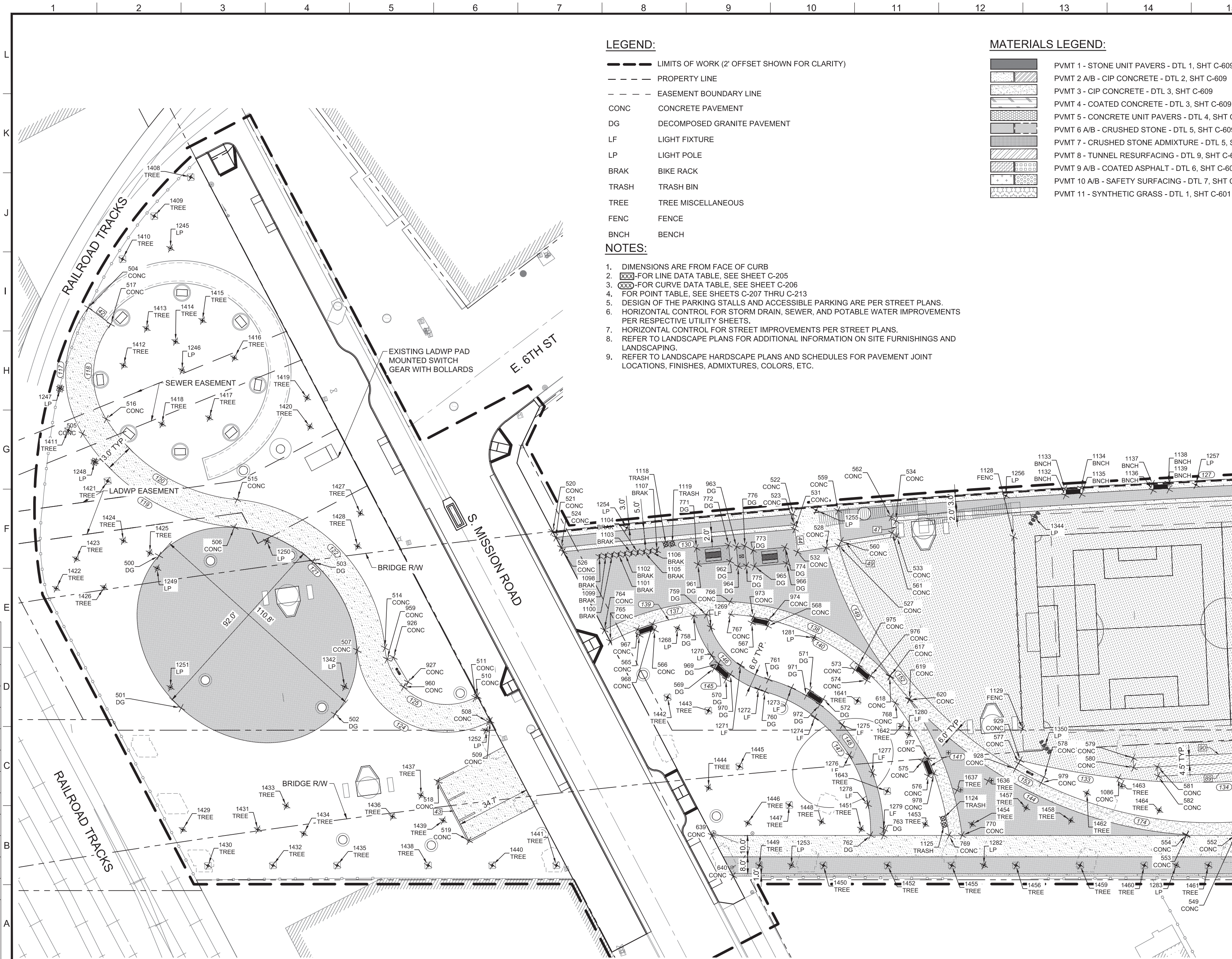
BID SET - NOT FOR CONSTRUCTION



LEGEND:

Symbol	Description
(long dash line)	LIMITS OF WORK (2' OFFSET SHOWN FOR CLARITY)
(dash line)	PROPERTY LINE
(short dash line)	EASEMENT BOUNDARY LINE
CONC	CONCRETE PAVEMENT
DG	DECOMPOSED GRANITE PAVEMENT
LF	LIGHT FIXTURE
LP	LIGHT POLE
BRAK	BIKE RACK
TRASH	TRASH BIN
TREE	TREE MISCELLANEOUS
FENC	FENCE
BNCH	BENCH

NOTES:

1. DIMENSIONS ARE FROM FACE OF CURB
2. XXX -FOR LINE DATA TABLE, SEE SHEET C-205
3. (XXX) -FOR CURVE DATA TABLE, SEE SHEET C-206
4. FOR POINT TABLE, SEE SHEETS C-207 THRU C-213
5. DESIGN OF THE PARKING STALLS AND ACCESSIBLE PARKING ARE PER STREET PLANS.
6. HORIZONTAL CONTROL FOR STORM DRAIN, SEWER, AND POTABLE WATER IMPROVEMENTS PER RESPECTIVE UTILITY SHEETS.
7. HORIZONTAL CONTROL FOR STREET IMPROVEMENTS PER STREET PLANS.
8. REFER TO LANDSCAPE PLANS FOR ADDITIONAL INFORMATION ON SITE FURNISHINGS AND LANDSCAPING.
9. REFER TO LANDSCAPE HARDSCAPE PLANS AND SCHEDULES FOR PAVEMENT JOINT LOCATIONS, FINISHES, ADMIXTURES, COLORS, ETC.

MATERIALS LEGEND:

- PVMT 1 - STONE UNIT PAVERS - DTL 1, SHT C-609
- PVMT 2 A/B - CIP CONCRETE - DTL 2, SHT C-609
- PVMT 3 - CIP CONCRETE - DTL 3, SHT C-609
- PVMT 4 - COATED CONCRETE - DTL 3, SHT C-609
- PVMT 5 - CONCRETE UNIT PAVERS - DTL 4, SHT C-609
- PVMT 6 A/B - CRUSHED STONE - DTL 5, SHT C-609
- PVMT 7 - CRUSHED STONE ADMIXTURE - DTL 5, SHT C-609
- PVMT 8 - TUNNEL RESURFACING - DTL 9, SHT C-601
- PVMT 9 A/B - COATED ASPHALT - DTL 6, SHT C-609
- PVMT 10 A/B - SAFETY SURFACING - DTL 7, SHT C-609
- PVMT 11 - SYNTHETIC GRASS - DTL 1, SHT C-601

THE CITY OF LOS ANGELES OR ITS OFFICERS OR AGENTS SHALL NOT BE RESPONSIBLE FOR THE ACCURACY OR COMPLETENESS OF ELECTRONIC COPIES OF THIS PLAN SHEET.

REVISION DATES (DESIGN STAGE ONLY)

Sheet Version 3.0

PLANS PREPARED BY:
TETRA TECH, INC.
707 WILSHIRE BLVD, 23RD FLR.
LOS ANGELES, CA 90017
PHONE: (213) 239-8866

CITY OF LOS ANGELES — DEPARTMENT OF PUBLIC WORKS — BUREAU OF ENGINEERING

VERT. CONTROL: BM 12-04070, 1929 (NGVD29) - 1985 ADJUSTMENT
HORIZ. CONTROL: GPS; PID AE 1704, EPOCH 1991.35

SHEET TITLE: HORIZONTAL CONTROL PLAN SHEET 3
PROJECT: SIXTH STREET PARK, ARTS AND RIVER CONNECTIVITY IMPROVEMENTS (PARC)
ADDRESS: SIXTH STREET OVER THE LOS ANGELES RIVER

GARY LEE MOORE, P.E., ENV SP — CITY ENGINEER
DESIGN GROUP — DATE:
ENGINEER: JUSTIN SMITH — LIC. NO. C-85736 — 07/11/22
DESIGNED BY: JUSTIN SMITH
DRAWN BY: MARK CARLOS
CHECKED BY: NATE SCHREINER
APPROVED BY: JASON L. FUSSEL

THIS PLAN WAS ELECTRONICALLY SIGNED AND STAMPED.

REGISTERED PROFESSIONAL ENGINEER — JUSTIN T. SMITH — No. 85736 — EXP. 9-30-22 — CIVIL — STATE OF CALIFORNIA

NO.	REVISIONS:	DATE:	BY:

INDEX NO.

BUILDING NO.

ENGINEERING — CITY OF LOS ANGELES

WORK ORDER NO. E700235D
FILE NO. --
DRAWING NO. C-202
SHEET 29 OF 295 SHEETS

7/11/2022 2:30:55 AM - O:\PROJECTS\IRVINE\20043\200-20043-17001\CAD\SHEETFILES\C-202_HORIZONTAL CONTROL PLAN - TT.DWG - SMITH, JUSTIN

BID SET - NOT FOR CONSTRUCTION

LEGEND:

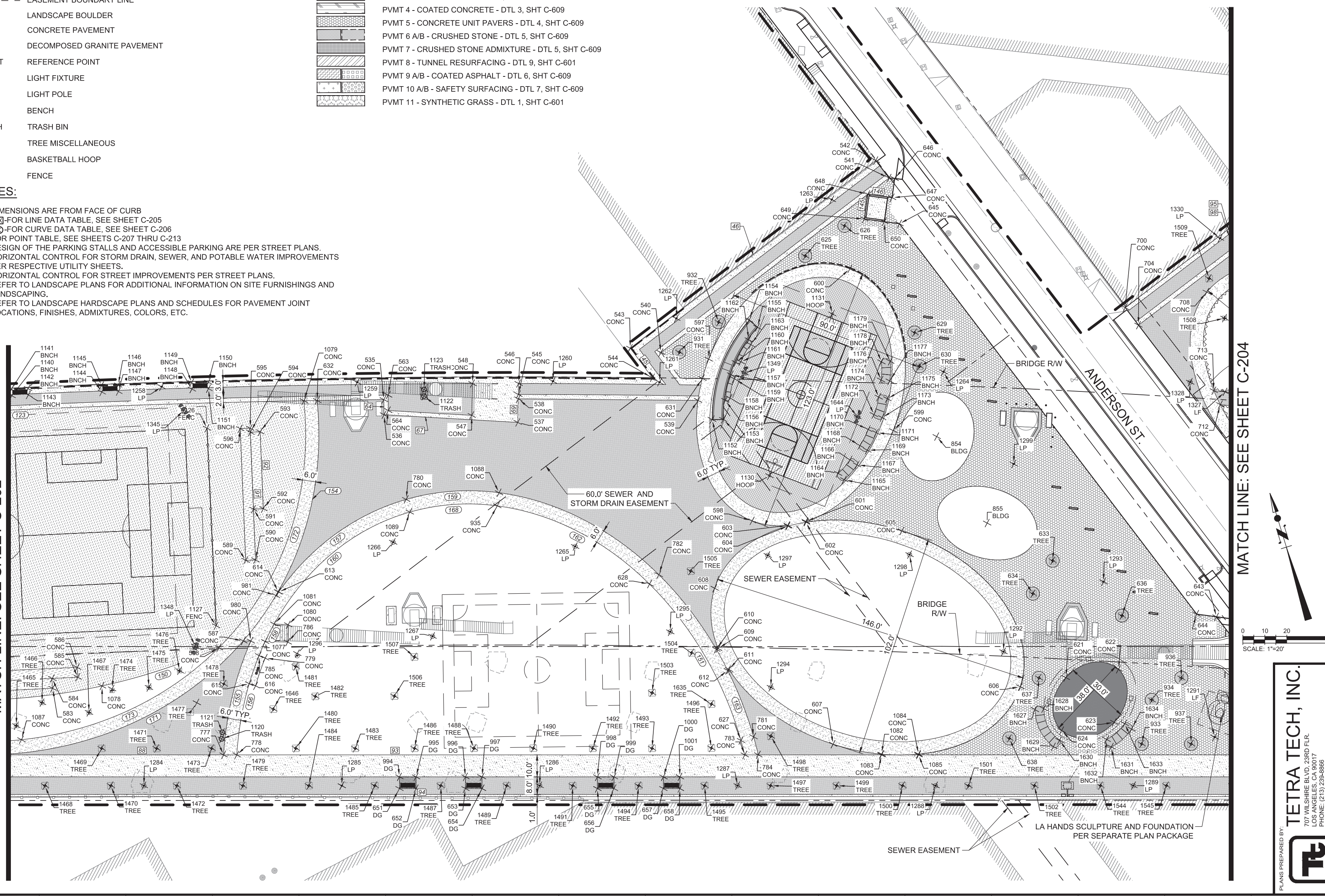
▬ ▬ ▬	LIMITS OF WORK (2' OFFSET SHOWN FOR CLARITY)
— — —	PROPERTY LINE
— — —	EASEMENT BOUNDARY LINE
BLDR	LANDSCAPE BOULDER
CONC	CONCRETE PAVEMENT
DG	DECOMPOSED GRANITE PAVEMENT
REF PT	REFERENCE POINT
LF	LIGHT FIXTURE
LP	LIGHT POLE
BNCH	BENCH
TRASH	TRASH BIN
TREE	TREE MISCELLANEOUS
HOOP	BASKETBALL HOOP
FENC	FENCE

NOTES:

1. DIMENSIONS ARE FROM FACE OF CURB
2. XXX -FOR LINE DATA TABLE, SEE SHEET C-205
3. XXX -FOR CURVE DATA TABLE, SEE SHEET C-206
4. FOR POINT TABLE, SEE SHEETS C-207 THRU C-213
5. DESIGN OF THE PARKING STALLS AND ACCESSIBLE PARKING ARE PER STREET PLANS.
6. HORIZONTAL CONTROL FOR STORM DRAIN, SEWER, AND POTABLE WATER IMPROVEMENTS PER RESPECTIVE UTILITY SHEETS.
7. HORIZONTAL CONTROL FOR STREET IMPROVEMENTS PER STREET PLANS.
8. REFER TO LANDSCAPE PLANS FOR ADDITIONAL INFORMATION ON SITE FURNISHINGS AND LANDSCAPING.
9. REFER TO LANDSCAPE HARDSCAPE PLANS AND SCHEDULES FOR PAVEMENT JOINT LOCATIONS, FINISHES, ADMIXTURES, COLORS, ETC.

MATERIALS LEGEND:

- PVMT 1 - STONE UNIT PAVERS - DTL 1, SHT C-609
- PVMT 2 A/B - CIP CONCRETE - DTL 2, SHT C-609
- PVMT 3 - CIP CONCRETE - DTL 3, SHT C-609
- PVMT 4 - COATED CONCRETE - DTL 3, SHT C-609
- PVMT 5 - CONCRETE UNIT PAVERS - DTL 4, SHT C-609
- PVMT 6 A/B - CRUSHED STONE - DTL 5, SHT C-609
- PVMT 7 - CRUSHED STONE ADMIXTURE - DTL 5, SHT C-609
- PVMT 8 - TUNNEL RESURFACING - DTL 9, SHT C-601
- PVMT 9 A/B - COATED ASPHALT - DTL 6, SHT C-609
- PVMT 10 A/B - SAFETY SURFACING - DTL 7, SHT C-609
- PVMT 11 - SYNTHETIC GRASS - DTL 1, SHT C-601



THE CITY OF LOS ANGELES OR ITS OFFICERS OR AGENTS SHALL NOT BE RESPONSIBLE FOR THE ACCURACY OR COMPLETENESS OF ELECTRONIC COPIES OF THIS PLAN SHEET.

REVISION DATES (DESIGN STAGE ONLY)

Sheet Version 3.0

PLANS PREPARED BY:
TETRA TECH, INC.
707 WILSHIRE BLVD, 23RD FLR.
LOS ANGELES, CA 90017
PHONE: (213) 239-8866

CITY OF LOS ANGELES — DEPARTMENT OF PUBLIC WORKS — BUREAU OF ENGINEERING

VERT. CONTROL: BM 12-04070, 1929 (NGVD29) + 1985 ADJUSTMENT
HORIZ. CONTROL: GPS; PID AE 1704, EPOCH 1991.35

SHEET TITLE: HORIZONTAL CONTROL PLAN SHEET 4
PROJECT: SIXTH STREET PARK, ARTS AND RIVER CONNECTIVITY IMPROVEMENTS (PARC)
ADDRESS: SIXTH STREET OVER THE LOS ANGELES RIVER

GARY LEE MOORE, P.E., ENV SP — CITY ENGINEER
DESIGN GROUP — DATE:
ENGINEER: JUSTIN SMITH — LIC. NO. C-85736 — 07/11/22
DESIGNED BY: JUSTIN SMITH
DRAWN BY: MARK CARLOS
CHECKED BY: NATE SCHREINER
APPROVED BY: JASON L. FUSSEL

THIS PLAN WAS ELECTRONICALLY SIGNED AND STAMPED

REGISTERED PROFESSIONAL ENGINEER — JUSTIN T. SMITH — No. 85736 — EXP. 9-30-22 — CIVIL — STATE OF CALIFORNIA

NO. | REVISIONS | DATE | BY

BUILDING NO.

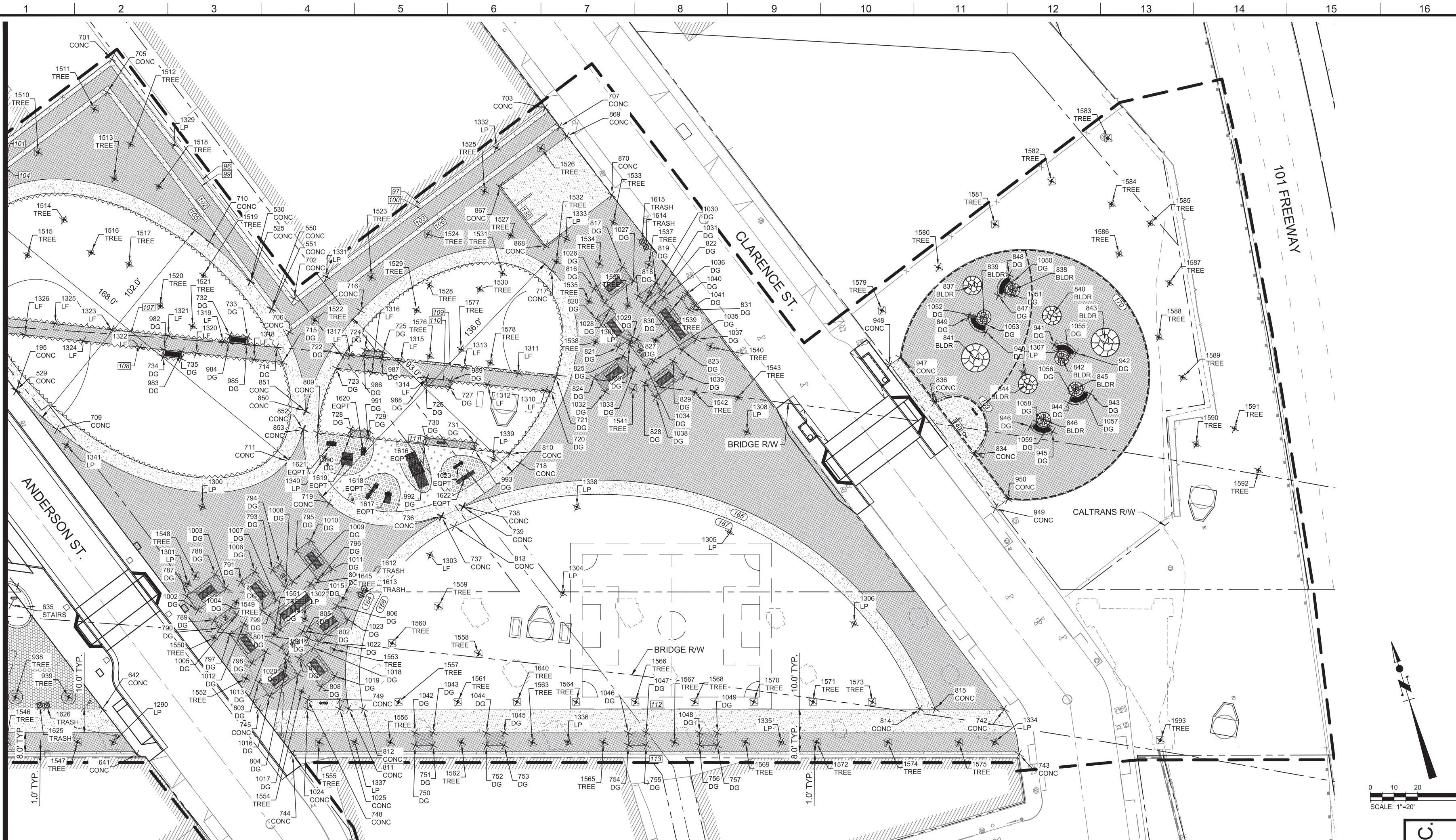
INDEX NO.

ENGINEERING — CITY OF LOS ANGELES

WORK ORDER NO. E700235D
FILE NO. --
DRAWING NO. C-203
SHEET 30 OF 295 SHEETS

7/11/2022 2:35:31 AM - O:\PROJECTS\IRVINE\20043\200-20043-17001\CAD\SHEETFILES\C-203_HORIZONTAL CONTROL PLAN - TT.DWG - SMITH, JUSTIN

BID SET - NOT FOR CONSTRUCTION



LEGEND:

▬ ▬	LIMITS OF WORK
— —	PROPERTY LINE
— — —	EASEMENT BOUNDARY LINE
BLDR	LANDSCAPE BOULDER
CONC	CONCRETE PAVEMENT
DG	DECOMPOSED GRANITE PAVEMENT
REF PT	REFERENCE POINT
LF	LIGHT FIXTURE
LP	LIGHT POLE
TRASH	TRASH BIN
EQPT	EXERCISE EQUIPMENT
TREE	TREE MISCELLANEOUS

NOTES:

1. DIMENSIONS ARE FROM FACE OF CURB
2. XXX-FOR LINE DATA TABLE, SEE SHEET C-205
3. XXX-FOR CURVE DATA TABLE, SEE SHEET C-206
4. FOR POINT TABLE, SEE SHEETS C-207 THRU C-213
5. DESIGN OF THE PARKING STALLS AND ACCESSIBLE PARKING ARE PER STREET PLANS.
6. HORIZONTAL CONTROL FOR STORM DRAIN, SEWER, AND POTABLE WATER IMPROVEMENTS PER RESPECTIVE UTILITY SHEETS.
7. HORIZONTAL CONTROL FOR STREET IMPROVEMENTS PER STREET PLANS.
8. REFER TO LANDSCAPE PLANS FOR ADDITIONAL INFORMATION ON SITE FURNISHINGS AND LANDSCAPING.
9. REFER TO LANDSCAPE HARDSCAPE PLANS AND SCHEDULES FOR PAVEMENT JOINT LOCATIONS, FINISHES, ADMIXTURES, COLORS, ETC.

MATERIALS LEGEND:

- PVMT 1 - STONE UNIT PAVERS - DTL 1, SHT C-609
- PVMT 2 A/B - CIP CONCRETE - DTL 2, SHT C-609
- PVMT 3 - CIP CONCRETE - DTL 3, SHT C-609
- PVMT 4 - COATED CONCRETE - DTL 3, SHT C-609
- PVMT 5 - CONCRETE UNIT PAVERS - DTL 4, SHT C-609
- PVMT 6 A/B - CRUSHED STONE - DTL 5, SHT C-609
- PVMT 7 - CRUSHED STONE ADMIXTURE - DTL 5, SHT C-609
- PVMT 8 - TUNNEL RESURFACING - DTL 9, SHT C-601
- PVMT 9 A/B - COATED ASPHALT - DTL 6, SHT C-609
- PVMT 10 A/B - SAFETY SURFACING - DTL 7, SHT C-609
- PVMT 11 - SYNTHETIC GRASS - DTL 1, SHT C-601

PLANS PREPARED BY:
TETRA TECH, INC.
707 WILSHIRE BLVD, 23RD FLR.
LOS ANGELES, CA 90017
PHONE: (213) 239-8866

CITY OF LOS ANGELES — DEPARTMENT OF PUBLIC WORKS — BUREAU OF ENGINEERING

VERT. CONTROL: BM 12-04070, 1929 (NGVD29) • 1985 ADJUSTMENT
HORIZ. CONTROL: GPS: PID AE 1704, EPOCH 1991.35

SHEET TITLE: HORIZONTAL CONTROL PLAN SHEET 5
PROJECT: SIXTH STREET PARK, ARTS AND RIVER CONNECTIVITY IMPROVEMENTS (PARC)
ADDRESS: SIXTH STREET OVER THE LOS ANGELES RIVER

GARY LEE MOORE, P.E., ENV SP — CITY ENGINEER
DESIGN GROUP
ENGINEER: JUSTIN SMITH — LIC. NO. C-85736 — 07/11/22
DESIGNED BY: JUSTIN SMITH
DRAWN BY: MARK CARLOS
CHECKED BY: NATE SCHREINER
APPROVED BY: JASON L. FUSSEL

THIS PLAN WAS ELECTRONICALLY SIGNED AND STAMPED
REGISTERED PROFESSIONAL ENGINEER — JUSTIN T. SMITH — No. 85736 — EXP: 9-30-22 — CIVIL — STATE OF CALIFORNIA

NO. | REVISIONS | DATE | BY
INDEX NO.
BUILDING NO.

WORK ORDER NO. E700235D
FILE NO. --
DRAWING NO. C-204
SHEET 31 OF 295 SHEETS

REVISION DATES (DESIGN STAGE ONLY)

Sheet Version 3.0

7/11/2022 2:39:39 AM - O:\PROJECTS\IRVINE\200443\200-20043-17001\CAD\SHEETFILES\C-204_HORIZONTAL CONTROL PLAN - TT.DWG - SMITH, JUSTIN

BID SET - NOT FOR CONSTRUCTION

LINE TABLE

LINE #	LENGTH	DIRECTION
1	608.43	N84° 50' 58.42"E
2	607.92	N84° 50' 58.42"E
3	46.55	S67° 42' 42.78"E
4	51.76	S67° 42' 42.78"E
5	14.00	N00° 01' 10.27"E
6	243.66	S78° 32' 45.20"E
7	328.48	S78° 32' 45.20"E
8	22.40	N17° 28' 11.44"E
9	22.40	N17° 28' 11.44"E
10	599.15	N84° 50' 12.10"E
11	27.38	N85° 23' 22.43"E
12	19.30	N85° 23' 22.43"E
13	288.56	N84° 52' 58.77"E
14	247.75	N84° 53' 30.31"E
15	9.60	N84° 49' 19.47"E
16	28.93	S84° 52' 28.04"W
17	32.64	S84° 52' 29.83"W
18	67.77	S84° 52' 28.03"W
19	5.16	N12° 40' 51.97"E
20	10.14	N20° 01' 32.24"E
21	2.22	N76° 40' 25.92"E
22	2.22	N72° 07' 44.63"E
23	7.09	S82° 07' 33.10"W
24	6.04	S85° 36' 29.26"W
25	14.85	S84° 52' 28.03"W
26	1.68	S58° 22' 30.84"W
27	36.43	N15° 10' 32.67"W
28	42.80	N08° 01' 31.82"W
29	4.83	N05° 45' 19.43"W
30	38.20	N39° 51' 09.30"E
31	169.56	N84° 52' 28.07"E
32	10.50	N84° 52' 28.03"E
33	30.00	N84° 52' 28.03"E
34	16.00	N84° 52' 28.03"E
35	10.06	S68° 33' 37.78"E
36	38.50	N84° 52' 28.03"E
37	10.06	N58° 18' 33.85"E
38	38.17	S50° 08' 53.15"E
39	4.88	S05° 10' 14.34"E
40	280.02	S84° 52' 39.31"W
41	3.07	S36° 14' 57.95"E
42	13.01	S36° 33' 05.37"E
43	31.33	S10° 31' 39.08"E
44	10.80	S10° 50' 14.73"W
45	16.81	S19° 46' 42.69"E
46	140.61	S69° 40' 37.11"W
47	7.35	N12° 50' 39.18"E
49	47.09	S81° 46' 54.48"E
50	7.99	S17° 43' 01.03"W
64	6.91	S16° 18' 29.65"W

LINE TABLE

LINE #	LENGTH	DIRECTION
67	60.94	S69° 37' 25.36"E
69	10.73	N18° 18' 29.64"E
88	98.58	S72° 54' 23.49"E
89	57.11	S75° 32' 35.28"E
90	80.00	S75° 32' 35.28"E
91	60.01	S14° 45' 21.51"W
92	35.00	S14° 43' 36.10"W
93	842.75	S72° 54' 21.74"E
94	847.25	S72° 54' 21.74"E
95	117.01	N69° 52' 02.96"E
96	127.11	S20° 08' 46.01"E
97	133.08	N69° 52' 49.60"E
98	115.01	N69° 52' 02.53"E
99	127.11	S20° 08' 50.77"E
100	135.09	N69° 52' 49.60"E
101	109.00	N69° 52' 02.96"E
102	127.11	S20° 08' 50.77"E
103	141.15	N69° 52' 49.60"E
104	106.81	S69° 52' 02.96"W
105	127.11	N20° 08' 50.77"W
106	143.17	S69° 52' 49.60"W
107	123.13	S66° 45' 56.37"E
108	122.73	S66° 45' 56.37"E
109	89.93	S66° 45' 56.37"E
110	91.05	S66° 45' 56.37"E
111	81.65	S66° 45' 56.37"E
112	314.84	S72° 53' 35.74"E
113	306.68	N72° 53' 35.74"W
135	31.33	S20° 07' 15.79"E
140	75.19	S20° 09' 45.36"E
145	11.33	N24° 53' 33.38"E
146	9.16	S65° 09' 48.75"E

PLANS PREPARED BY:
TETRA TECH, INC.
707 WILSHIRE BLVD. 23RD FLR.
LOS ANGELES, CA 90017
PHONE: (213) 239-8866

CITY OF LOS ANGELES — DEPARTMENT OF PUBLIC WORKS — BUREAU OF ENGINEERING

VERT. CONTROL: BM 12-04070, 1929 (NGVD29) • 1985 ADJUSTMENT
HORIZ. CONTROL: GPS; PID AE 1704, EPOCH 1991.35

SHEET TITLE: HORIZONTAL CONTROL LINE TABLES
PROJECT: SIXTH STREET PARK, ARTS AND RIVER CONNECTIVITY IMPROVEMENTS (PARC)
ADDRESS: SIXTH STREET OVER THE LOS ANGELES RIVER

GARY LEE MOORE, P.E., ENV SP — CITY ENGINEER
DESIGN GROUP
ENGINEER: JUSTIN SMITH LIC. NO. C-85736 DATE: 07/11/22
DESIGNED BY: JUSTIN SMITH
DRAWN BY: MARK CARLOS
CHECKED BY: NATE SCHREINER
APPROVED BY: JASON L. FUSSEL

• THIS PLAN WAS ELECTRONICALLY SIGNED AND STAMPED •

REGISTERED PROFESSIONAL ENGINEER — JUSTIN T. SMITH — No. 85736 — EXP: 9-30-22 — CIVIL — STATE OF CALIFORNIA

NO. | REVISIONS: | DATE: | BY:

INDEX NO.

BUILDING NO.

ENGINEERING — CITY OF LOS ANGELES

WORK ORDER NO. E700235D
FILE NO. --
DRAWING NO. C-205
SHEET 32 OF 295 SHEETS

BID SET - NOT FOR CONSTRUCTION

REVISION DATES (DESIGN STAGE ONLY)

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CURVE TABLE

CURVE #	LENGTH	RADIUS	DELTA
1	58.91	40.00	84.38
2	73.60	50.00	84.34
3	46.34	34.00	78.09
4	47.73	44.00	62.16
5	12.39	7.89	89.98
6	17.78	57.10	17.84
7	14.04	45.10	17.84
8	13.52	43.14	17.96
9	17.33	55.14	18.00
10	58.45	117.29	28.55
11	37.67	63.57	33.95
12	52.99	105.07	28.90
13	25.20	40.50	35.66
14	18.21	23.00	45.36
15	18.25	50.47	20.71
16	20.82	257.50	4.63
17	42.57	98.00	24.89
18	55.10	96.00	32.89
19	17.62	122.46	8.24
20	16.34	194.50	4.81
21	14.84	194.50	4.37
23	23.48	16.00	84.05
25	28.46	178.51	9.14
26	23.40	199.00	6.74
27	22.83	20.50	63.80
28	22.83	20.50	63.80
29	12.66	154.91	4.68
30	17.08	158.59	6.17
31	14.73	122.09	6.91
32	14.49	26.32	31.53
33	18.60	29.83	35.74
34	5.23	50.11	5.98
36	21.25	145.07	8.39
37	18.04	149.65	6.91
38	6.49	152.50	2.44
39	19.31	154106.72	0.01
40	12.17	93.93	7.42
41	26.81	97.47	15.76
42	6.65	362.23	1.05
43	32.70	182.79	10.25
44	19.55	403.98	2.77
45	34.09	147.88	13.21
46	27.87	108.10	14.77
47	14.47	12.33	67.27
48	8.20	32.71	14.37
49	71.59	124.15	33.04
50	15.10	63.51	13.63
51	14.68	56.03	15.01
52	19.30	31071.57	0.04
53	26.34	66.08	22.84

CURVE TABLE

CURVE #	LENGTH	RADIUS	DELTA
54	52.56	222.32	13.55
55	28.73	70.00	23.52
56	23.87	17.00	80.44
57	17.03	44.72	21.82
58	36.04	251.50	8.21
59	15.00	7.00	122.77
60	52.19	271.50	11.01
61	19.44	12.00	92.82
62	16.30	61.41	15.21
63	25.83	33.00	44.85
64	20.89	53.50	22.37
65	30.33	72.25	24.05
66	66.84	225.81	16.96
67	62.15	500.88	7.11
68	41.10	220.00	10.70
69	40.82	216.67	10.79
70	28.79	21.00	78.54
71	25.47	18.00	81.09
72	49.84	84.00	34.00
73	55.20	81.00	39.05
74	25.62	18.00	81.55
75	22.21	15.00	84.85
76	13.18	272.00	2.78
77	13.36	359.56	2.13
78	22.48	272.00	4.74
79	22.10	269.00	4.71
80	18.62	265.16	4.02
81	19.94	269.00	4.25
82	58.04	729.00	4.56
83	56.51	732.00	4.42
84	15.26	408.00	2.14
85	21.00	367.30	3.28
86	32.64	408.00	4.58
87	32.18	411.00	4.49
88	48.33	313.00	8.85
89	51.28	310.00	9.48
90	17.25	313.00	3.16
91	16.46	310.00	3.04
92	40.07	30.00	76.53
93	31.63	27.00	67.13
94	24.37	729.00	1.92
95	8.63	15.00	32.97
96	52.70	408.00	7.40
97	58.16	411.00	8.11
98	10.02	12.00	47.84
99	10.13	15.00	38.69
100	4.69	30.00	8.95
101	4.81	27.00	10.21
102	13.25	408.00	1.86
103	13.60	411.00	1.90

CURVE TABLE

CURVE #	LENGTH	RADIUS	DELTA
104	32.85	218.00	8.63
105	33.52	215.00	8.93
106	11.53	91.00	7.26
107	11.57	94.50	7.01
108	13.93	91.00	8.77
109	13.77	87.89	8.98
110	90.56	218.00	23.80
111	88.15	215.00	23.49
112	37.92	497.00	4.37
113	37.26	500.00	4.27
114	30.96	44.50	39.86
115	31.11	47.50	37.52
116	2.47	218.00	0.65
117	62.80	52.00	69.20
118	47.28	38.98	69.49
119	86.38	94.00	52.65
120	74.43	81.00	52.65
121	88.26	63.50	79.64
122	106.33	76.50	79.64
123	330.70	5050.61	3.75
124	82.51	42.00	112.56
125	56.93	29.00	112.48
126	46.30	89.44	29.66
127	613.98	5060.61	6.95
128	45.31	102.93	25.22
129	19.72	50.50	22.37
130	108.79	5049.19	1.23
133	46.90	350.88	7.66
134	98.37	300.88	18.73
135	44.74	86.44	29.65
136	43.47	99.93	24.92
137	61.05	115.08	30.39
138	84.56	108.43	44.68
139	58.33	109.20	30.61
140	90.40	102.85	50.36
141	67.59	129.82	29.83
142	15.52	58.50	15.20
143	17.79	30.00	33.97
144	147.77	191.99	44.10
145	51.30	47.00	62.54
146	44.07	41.00	61.59
147	89.80	68.00	75.67
148	97.61	74.00	75.57
149	67.64	174.75	22.18
150	56.00	284.19	11.29
151	83.31	164.44	29.03
152	136.46	178.05	43.91
153	13.78	187.97	4.20
154	90.28	145.17	35.63
155	53.54	151.73	20.22

CURVE TABLE

CURVE #	LENGTH	RADIUS	DELTA
156	53.52	144.91	21.16
157	73.08	106.79	39.21
158	8.96	126.87	4.05
159	42.66	103.47	23.62
160	82.08	104.12	45.17
161	42.95	174.73	14.08
162	79.24	122.48	37.07
163	32.49	177.41	10.49
164	95.20	75.00	72.73
165	241.28	152.00	90.95
166	93.00	69.00	77.23
167	235.95	146.00	92.59
168	40.18	97.54	23.60
169	44.41	13.82	184.15
170	249.42	53.00	269.63
171	120.08	154.62	44.49
172	122.96	136.81	51.50
173	101.00	148.60	38.94
174	100.37	179.42	32.05

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REVISION DATES (DESIGN STAGE ONLY)

Sheet Version 3.0

PLANS PREPARED BY:

TETRA TECH, INC.
707 WILSHIRE BLVD, 23RD FLR.
LOS ANGELES, CA 90017
PHONE: (213) 239-8866

CITY OF LOS ANGELES — DEPARTMENT OF PUBLIC WORKS — BUREAU OF ENGINEERING

VERT. CONTROL: BM 12-04070, 1929 (NGVD29) • 1985 ADJUSTMENT
HORIZ. CONTROL: GPS, PID AE 1704, EPOCH 1991.35

SHEET TITLE: HORIZONTAL CONTROL CURVE TABLES

PROJECT: SIXTH STREET PARK, ARTS AND RIVER CONNECTIVITY IMPROVEMENTS (PARC)

ADDRESS: SIXTH STREET OVER THE LOS ANGELES RIVER

GARY LEE MOORE, P.E., ENV SP — CITY ENGINEER

DESIGN GROUP

ENGINEER: JUSTIN SMITH — LIC. NO. C-85736 — DATE: 07/11/22

DESIGNED BY: JUSTIN SMITH

DRAWN BY: MARK CARLOS

CHECKED BY: NATE SCHREINER

APPROVED BY: JASON L. FUSSEL

• THIS PLAN WAS ELECTRONICALLY SIGNED AND STAMPED •

REGISTERED PROFESSIONAL ENGINEER — JUSTIN T. SMITH — No. 85736 — EXP: 9-30-22 — CIVIL — STATE OF CALIFORNIA

NO. | REVISIONS: | DATE: | BY:

INDEX NO.

BUILDING NO.

ENGINEERING — CITY OF LOS ANGELES

WORK ORDER NO. E700235D

FILE NO. --

DRAWING NO. C-206

SHEET 33 OF 295 SHEETS

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POINT TABLE

POINT #	DESCRIPTION	NORTHING	EASTING
100	CONC	1836549.21	6491182.15
101	CONC	1836488.11	6491578.19
102	DG	1836517.75	6491219.24
103	CONC	1836488.44	6491578.16
104	DG	1836526.99	6491196.70
105	CONC	1836559.12	6491180.74
106	DG	1836524.12	6491203.69
107	DG	1836513.94	6491228.55
108	CONC	1836554.72	6491247.03
109	CONC	1836543.53	6491302.23
110	CONC	1836542.03	6491309.65
111	CONC	1836536.01	6491241.25
112	CONC	1836476.07	6491333.01
113	CONC	1836494.60	6491441.00
114	REF PT	1836554.42	6491349.21
115	CONC	1836539.84	6491230.87
116	CONC	1836498.26	6491240.31
117	CONC	1836497.24	6491197.69
118	CONC	1836538.82	6491188.25
119	CONC	1836507.55	6491184.82
120	CONC	1836501.19	6491190.57
121	CONC	1836474.35	6491192.98
122	CONC	1836466.83	6491188.64
123	CONC	1836463.01	6491188.99
124	CONC	1836453.90	6491199.60
125	DG	1836529.71	6491197.81
126	DG	1836526.84	6491204.81
127	CONC	1836443.95	6491212.19
128	CONC	1836456.48	6491189.57
129	CONC	1836432.00	6491213.26
130	CONC	1836433.65	6491231.65
131	CONC	1836443.33	6491205.34
132	CONC	1836435.12	6491231.50
133	CONC	1836437.84	6491261.87
134	CONC	1836438.11	6491261.84
135	CONC	1836477.42	6491708.45
136	CONC	1836479.16	6491708.29
137	CONC	1836480.10	6491718.77
138	CONC	1836399.14	6491726.01
139	CONC	1836405.83	6491800.52
140	CONC	1836489.43	6491589.14
141	CONC	1836420.19	6491799.23
142	CONC	1836420.83	6491804.88
143	CONC	1836430.30	6491804.12
144	CONC	1836430.24	6491803.34
145	CONC	1836476.55	6491799.15
146	CONC	1836476.65	6491800.38
147	CONC	1836486.12	6491799.62
148	CONC	1836486.01	6491798.29
149	BLDG	1836451.55	6491735.14

POINT TABLE

POINT #	DESCRIPTION	NORTHING	EASTING
150	CONC	1836507.82	6491796.31
151	CONC	1836603.78	6491787.61
152	CONC	1836613.74	6491786.71
153	CONC	1836531.21	6491348.28
154	CONC	1836532.71	6491340.87
155	CONC	1836540.66	6491301.65
156	CONC	1836539.15	6491309.06
157	BLDR	1836572.35	6491689.09
158	BLDR	1836558.61	6491695.07
159	BLDR	1836553.53	6491670.59
160	BLDR	1836530.91	6491675.99
161	CONC	1836594.96	6491750.12
162	CONC	1836574.80	6491779.36
163	CONC	1836556.99	6491748.63
164	CONC	1836577.15	6491719.40
165	CONC	1836576.56	6491719.39
166	CONC	1836576.50	6491719.08
167	CONC	1836572.00	6491720.31
168	CONC	1836571.94	6491719.98
169	CONC	1836583.59	6491715.16
170	CONC	1836570.87	6491654.21
171	CONC	1836524.54	6491695.41
172	CONC	1836511.81	6491634.46
173	CONC	1836532.45	6491630.09
174	CONC	1836532.55	6491629.77
175	CONC	1836543.42	6491633.54
176	CONC	1836543.52	6491633.22
177	CONC	1836544.78	6491633.62
178	CONC	1836588.94	6491622.93
179	CONC	1836587.62	6491608.33
180	CONC	1836547.79	6491624.08
181	CONC	1836526.42	6491617.36
182	CONC	1836499.28	6491570.99
183	CONC	1836547.67	6491332.19
184	CONC	1836561.67	6491332.19
185	CONC	1836489.10	6491589.17
186	CONC	1836555.05	6491247.00
187	CONC	1836523.42	6491626.90
188	DG	1836520.47	6491220.35
189	DG	1836516.65	6491229.66
193	CONC	1836561.68	6491320.49
194	CONC	1836489.49	6491568.97
195	CONC	1836170.79	6493991.50
198	CONC	1836537.33	6491195.04
199	CONC	1836532.40	6491191.26
200	CONC	1836519.68	6491238.11
201	CONC	1836512.77	6491239.15
202	CONC	1836527.48	6491241.34
203	CONC	1836527.65	6491241.67
204	CONC	1836522.21	6491243.60

POINT TABLE

POINT #	DESCRIPTION	NORTHING	EASTING
205	CONC	1836522.31	6491243.93
206	CONC	1836552.52	6491257.91
207	CONC	1836550.14	6491269.62
208	CONC	1836535.59	6491341.46
209	CONC	1836534.09	6491348.87
210	CONC	1836527.64	6491380.67
211	CONC	1836526.14	6491388.08
212	CONC	1836519.81	6491419.32
213	CONC	1836517.38	6491431.30
214	DG	1836554.93	6491700.50
215	BLDR	1836536.18	6491652.39
216	DG	1836572.24	6491682.54
217	DG	1836565.88	6491690.20
218	BLDG	1836432.69	6491775.47
300	CONC	1836447.39	6492215.23
301	CONC	1836446.92	6492209.21
302	CONC	1836443.44	6492209.50
303	CONC	1836440.36	6492183.04
304	CONC	1836436.89	6492183.51
305	CONC	1836435.43	6492150.88
306	CONC	1836431.93	6492150.73
307	CONC	1836430.08	6492117.45
308	CONC	1836426.67	6492118.22
309	CONC	1836415.38	6492084.16
310	CONC	1836447.61	6492045.53
311	CONC	1836443.92	6492044.71
312	CONC	1836420.51	6492080.18
313	CONC	1836418.30	6492077.46
314	CONC	1836460.72	6492012.46
315	CONC	1836457.44	6492011.24
316	CONC	1836456.55	6491980.93
317	CONC	1836453.51	6491982.67
318	CONC	1836429.97	6491966.40
319	CONC	1836428.67	6491969.65
320	CONC	1836396.42	6491961.50
321	CONC	1836395.95	6491964.96
322	CONC	1836383.35	6491963.79
323	CONC	1836380.44	6491931.28
324	CONC	1836376.95	6491931.59
325	CONC	1836374.37	6491902.77
326	CONC	1836370.88	6491903.09
327	CONC	1836405.29	6491861.85
328	CONC	1836392.57	6492171.15
329	CONC	1836400.90	6492142.06
330	CONC	1836453.59	6491857.47
331	CONC	1836466.72	6491856.28
332	CONC	1836474.85	6491858.04
333	CONC	1836498.88	6491864.42
334	DG	1836507.37	6491871.65
335	DG	1836508.93	6491890.88

POINT TABLE

POINT #	DESCRIPTION	NORTHING	EASTING
336	DG	1836507.87	6491904.83
337	DG	1836506.60	6491922.04
338	CONC	1836518.69	6491862.62
339	DG	1836520.89	6491889.92
340	DG	1836519.56	6491907.58
341	DG	1836518.56	6491921.01
342	CONC	1836467.63	6492069.50
343	CONC	1836519.08	6492143.41
344	WALL	1836528.66	6492168.81
345	WALL	1836403.08	6492194.45
346	CONC	1836440.60	6492184.77
347	CONC	1836432.34	6492144.09
348	CONC	1836423.23	6492106.56
349	CONC	1836416.58	6492088.43
350	CONC	1836491.90	6491997.91
351	CONC	1836491.63	6491980.86
352	CONC	1836443.29	6491972.66
353	CONC	1836413.19	6491964.69
354	CONC	1836385.11	6491963.89
355	CONC	1836465.71	6491875.23
356	CONC	1836438.45	6491883.51
357	CONC	1836434.85	6491901.73
358	CONC	1836466.43	6491943.18
359	CONC	1836478.34	6491940.17
360	CONC	1836484.79	6491904.74
361	CONC	1836483.68	6491887.85
362	CONC	1836454.46	6491867.03
363	CONC	1836478.71	6491872.23
364	CONC	1836489.48	6491886.32
365	CONC	1836490.72	6491905.71
366	CONC	1836487.83	6491925.15
367	CONC	1836489.20	6491967.23
368	CONC	1836491.21	6491977.45
369	CONC	1836480.33	6492037.77
370	CONC	1836458.54	6492109.18
371	CONC	1836462.41	6492160.00
372	CONC	1836479.34	6492173.13
373	CONC	1836479.56	6492176.12
374	CONC	1836474.28	6492175.78
375	CONC	1836473.97	6492177.24
376	CONC	1836466.66	6492174.15
377	CONC	1836457.98	6492160.80
378	CONC	1836455.21	6492137.57
379	CONC	1836456.70	6492137.48
381	CONC	1836457.05	6492109.05
382	CONC	1836468.47	6492184.53
383	CONC	1836478.35	6492225.30
393	CONC	1836505.04	6492164.30
394	DG	1836544.29	6492208.42
395	DG	1836509.14	6492217.95

LEGEND:

BLDG	BUILDING
BLDR	BOULDERS
CONC	CONCRETE PAVEMENT
DG	DECOMPOSED GRANITE PAVEMENT
REF PT	REFERENCE POINT
WALL	RETAINING WALL

ENGINEERING
CITY OF LOS ANGELES

BUREAU OF ENGINEERING

DATE | BY:

BUILDING NO.

NO. | REVISIONS:

INDEX NO.

THIS PLAN WAS ELECTRONICALLY SIGNED AND STAMPED

REGISTERED PROFESSIONAL ENGINEER ★ JUSTIN T. SMITH No. 85736 EXP. 9-30-22 CIVIL ★ STATE OF CALIFORNIA

DEPARTMENT OF PUBLIC WORKS

GARY LEE MOORE, P.E., ENV SP — CITY ENGINEER

DESIGN GROUP

ENGINEER: JUSTIN SMITH — LIC. NO. C-85736 — DATE: 07/11/22

DESIGNED BY: JUSTIN SMITH

DRAWN BY: MARK CARLOS

CHECKED BY: NATE SCHREINER

APPROVED BY: JASON L. FUSSEL

VERT. CONTROL: BM 12-04070, 1929 (NGVD29) + 1985 ADJUSTMENT
HORIZ. CONTROL: GPS, PID AE 1704, EPOCH 1991.35

SHEET TITLE: HORIZONTAL CONTROL POINT TABLES SHEET 1

PROJECT: SIXTH STREET PARK, ARTS AND RIVER CONNECTIVITY IMPROVEMENTS (PARC)

ADDRESS: SIXTH STREET OVER THE LOS ANGELES RIVER

CITY OF LOS ANGELES

PLANS PREPARED BY:
TETRA TECH, INC.
707 WILSHIRE BLVD, 23RD FLR.
LOS ANGELES, CA 90017
PHONE: (213) 239-8866

WORK ORDER NO. E700235D

FILE NO. --

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POINT TABLE

POINT #	DESCRIPTION	NORTHING	EASTING
396	DG	1836448.30	6492230.42
397	DG	1836407.18	6492236.22
398	DG	1836405.92	6492236.40
399	CONC	1836313.78	6491893.27
400	CONC	1836284.45	6491868.80
401	CONC	1836279.65	6491869.28
402	CONC	1836304.65	6492148.18
403	CONC	1836309.51	6492147.74
404	CONC	1836333.97	6492118.43
405	CONC	1836328.92	6492062.16
406	CONC	1836325.25	6492071.53
407	CONC	1836328.69	6492109.87
408	CONC	1836316.60	6492077.82
409	CONC	1836318.57	6492099.74
410	C&G	1836337.83	6492071.90
411	C&G	1836340.51	6492101.78
500	DG	1836480.27	6492972.54
501	DG	1836409.10	6492961.50
502	DG	1836385.15	6493029.43
503	DG	1836456.32	6493040.46
504	CONC	1836600.86	6492975.06
505	CONC	1836545.24	6492955.22
506	CONC	1836482.59	6493010.23
507	CONC	1836410.65	6493048.15
508	CONC	1836360.61	6493096.91
509	CONC	1836360.80	6493097.88
510	CONC	1836373.58	6493095.50
511	CONC	1836373.38	6493094.49
514	CONC	1836407.94	6493060.87
515	CONC	1836494.61	6493015.18
516	CONC	1836548.60	6492967.78
517	CONC	1836590.41	6492982.81
518	CONC	1836341.05	6493066.20
519	CONC	1836310.24	6493071.93
520	CONC	1836437.01	6493151.86
521	CONC	1836433.84	6493152.45
522	CONC	1836411.56	6493261.73
523	CONC	1836406.65	6493260.79
524	CONC	1836428.56	6493153.44
525	CONC	1836185.69	6494099.58
526	CONC	1836426.44	6493153.83
527	CONC	1836391.28	6493277.74
528	CONC	1836392.15	6493271.75
529	CONC	1836170.68	6493991.19
530	CONC	1836185.58	6494099.27
531	CONC	1836404.69	6493260.42
532	CONC	1836394.08	6493258.39
533	CONC	1836387.35	6493304.99
534	CONC	1836394.51	6493306.62
535	CONC	1836311.35	6493626.64

POINT TABLE

POINT #	DESCRIPTION	NORTHING	EASTING
536	CONC	1836304.73	6493624.70
537	CONC	1836283.51	6493681.82
538	CONC	1836293.69	6493685.19
539	CONC	1836268.98	6493763.12
540	CONC	1836294.80	6493753.40
541	CONC	1836340.18	6493875.92
542	CONC	1836349.57	6493872.49
543	CONC	1836300.73	6493740.64
544	CONC	1836284.92	6493746.32
545	CONC	1836295.59	6493685.82
546	CONC	1836300.34	6493687.39
547	CONC	1836292.72	6493662.75
548	CONC	1836306.48	6493667.30
549	CONC	1836207.19	6493415.23
550	CONC	1836171.79	6494104.33
551	CONC	1836171.90	6494104.64
552	CONC	1836207.51	6493415.33
553	CONC	1836213.93	6493393.32
554	CONC	1836214.24	6493393.42
559	CONC	1836407.10	6493282.26
560	CONC	1836392.97	6493279.55
561	CONC	1836389.59	6493303.45
562	CONC	1836396.90	6493305.12
563	CONC	1836312.71	6493629.12
564	CONC	1836305.95	6493627.14
565	CONC	1836378.65	6493176.39
566	CONC	1836378.87	6493183.95
567	CONC	1836368.67	6493228.30
568	CONC	1836365.09	6493234.97
569	DG	1836353.56	6493205.18
570	DG	1836347.01	6493208.96
571	DG	1836330.60	6493245.00
572	DG	1836324.73	6493249.76
573	CONC	1836333.65	6493267.82
574	CONC	1836327.18	6493271.73
575	CONC	1836283.52	6493285.45
576	CONC	1836275.98	6493286.06
577	CONC	1836269.21	6493328.15
578	CONC	1836259.59	6493337.70
579	CONC	1836255.81	6493380.12
580	CONC	1836251.46	6493379.00
581	CONC	1836248.65	6493389.90
582	CONC	1836244.29	6493388.77
583	CONC	1836230.03	6493444.08
584	CONC	1836234.39	6493445.20
585	CONC	1836231.48	6493456.46
586	CONC	1836235.84	6493457.59
587	CONC	1836225.17	6493533.27
588	CONC	1836225.44	6493521.75
589	CONC	1836259.87	6493545.10

POINT TABLE

POINT #	DESCRIPTION	NORTHING	EASTING
590	CONC	1836258.73	6493549.45
591	CONC	1836281.12	6493555.35
592	CONC	1836280.00	6493559.70
593	CONC	1836313.85	6493568.60
594	CONC	1836314.97	6493564.26
595	CONC	1836316.76	6493564.74
596	CONC	1836317.91	6493560.36
597	CONC	1836285.52	6493773.29
598	CONC	1836209.37	6493770.49
599	CONC	1836229.74	6493843.92
600	CONC	1836305.89	6493846.72
601	CONC	1836201.89	6493793.81
602	CONC	1836201.56	6493793.76
603	CONC	1836202.63	6493785.40
604	CONC	1836202.29	6493785.39
605	CONC	1836184.97	6493834.29
606	CONC	1836101.33	6493864.87
607	CONC	1836101.40	6493775.82
608	CONC	1836185.03	6493745.24
609	CONC	1836158.35	6493738.65
610	CONC	1836158.28	6493737.77
611	CONC	1836147.77	6493740.61
612	CONC	1836147.57	6493739.90
613	CONC	1836241.70	6493555.22
614	CONC	1836241.92	6493554.99
615	CONC	1836205.78	6493530.19
616	CONC	1836204.00	6493532.61
617	CONC	1836325.86	6493282.87
618	CONC	1836325.74	6493282.56
619	CONC	1836312.86	6493288.28
620	CONC	1836312.72	6493287.97
621	CONC	1836099.27	6493885.90
622	CONC	1836095.82	6493909.86
623	CONC	1836073.31	6493900.95
624	CONC	1836076.76	6493876.99
625	TREE	1836317.48	6493829.04
626	TREE	1836325.29	6493850.14
627	CONC	1836115.32	6493736.27
628	CONC	1836195.57	6493717.49
629	TREE	1836269.50	6493866.32
630	TREE	1836254.23	6493863.97
631	CONC	1836277.96	6493767.97
632	CONC	1836319.85	6493597.54
633	TREE	1836151.85	6493895.83
634	TREE	1836140.16	6493882.82
635	STAIRS	1836084.96	6493962.80
636	TREE	1836118.69	6493918.59
637	TREE	1836102.67	6493874.18
638	TREE	1836080.35	6493853.19
639	CONC	1836279.15	6493181.22

POINT TABLE

POINT #	DESCRIPTION	NORTHING	EASTING
640	CONC	1836258.07	6493185.14
641	CONC	1836009.03	6493994.96
642	CONC	1836031.44	6493986.73
643	CONC	1836105.53	6493959.53
644	CONC	1836109.36	6493951.24
645	CONC	1836318.88	6493874.31
646	CONC	1836339.16	6493878.28
647	CONC	1836331.22	6493874.60
648	CONC	1836335.92	6493864.46
649	CONC	1836325.64	6493859.69
650	CONC	1836321.80	6493867.99
651	DG	1836140.07	6493581.40
652	DG	1836137.84	6493588.63
653	DG	1836131.25	6493610.08
654	DG	1836129.03	6493617.30
655	DG	1836113.61	6493667.43
656	DG	1836111.39	6493674.65
657	DG	1836104.79	6493696.10
658	DG	1836102.57	6493703.33
700	CONC	1836252.22	6493961.19
701	CONC	1836292.49	6494071.05
702	CONC	1836173.16	6494114.83
703	CONC	1836218.93	6494239.78
704	CONC	1836242.83	6493964.64
705	CONC	1836279.66	6494065.10
706	CONC	1836160.33	6494108.88
707	CONC	1836209.58	6494243.32
708	CONC	1836248.08	6493998.71
709	CONC	1836149.90	6494002.96
710	CONC	1836206.55	6494087.78
711	CONC	1836108.38	6494092.02
712	CONC	1836197.31	6493989.56
713	CONC	1836204.25	6493988.61
714	DG	1836155.68	6494101.76
715	DG	1836148.90	6494102.34
716	CONC	1836160.08	6494140.25
717	CONC	1836152.62	6494222.29
718	CONC	1836078.87	6494185.59
719	CONC	1836086.33	6494103.54
720	DG	1836103.97	6494207.00
721	DG	1836108.87	6494210.77
722	DG	1836144.35	6494128.13
723	DG	1836139.89	6494123.33
724	DG	1836143.69	6494137.11
725	DG	1836140.71	6494144.06
726	DG	1836122.05	6494157.43
727	DG	1836118.08	6494166.68
728	DG	1836113.37	6494121.59
729	DG	1836110.39	6494128.54
730	DG	1836100.88	6494150.67

LEGEND:

C&G	CURB AND GUTTER
CONC	CONCRETE PAVEMENT
DG	DECOMPOSED GRANITE PAVEMENT

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REVISION DATES (DESIGN STAGE ONLY)

CITY OF LOS ANGELES — DEPARTMENT OF PUBLIC WORKS — BUREAU OF ENGINEERING

PLANS PREPARED BY:

TETRA TECH, INC.
707 WILSHIRE BLVD, 23RD FLR.
LOS ANGELES, CA 90017
PHONE: (213) 239-8866

VERT. CONTROL: BM 12-04070, 1929 (NGVD29) • 1985 ADJUSTMENT
HORIZ. CONTROL: GPS, PID AE 1704, EPOCH 1991.35

SHEET TITLE: HORIZONTAL CONTROL POINT TABLES SHEET 2

PROJECT: SIXTH STREET PARK, ARTS AND RIVER CONNECTIVITY IMPROVEMENTS (PARC)

ADDRESS: SIXTH STREET OVER THE LOS ANGELES RIVER

GARY LEE MOORE, P.E., ENV SP — CITY ENGINEER

DESIGN GROUP

ENGINEER: JUSTIN SMITH — LIC. NO. C-85736 — DATE: 07/11/22

DESIGNED BY: JUSTIN SMITH

DRAWN BY: MARK CARLOS

CHECKED BY: NATE SCHREINER

APPROVED BY: JASON L. FUSSEL

• THIS PLAN WAS ELECTRONICALLY SIGNED AND STAMPED •

REGISTERED PROFESSIONAL ENGINEER — JUSTIN T. SMITH — No. 85736 — EXP. 9-30-22 — CIVIL — STATE OF CALIFORNIA

NO. | REVISIONS | DATE | BY

INDEX NO.

BUILDING NO.

ENGINEERING — CITY OF LOS ANGELES

WORK ORDER NO. E700235D

FILE NO. --

DRAWING NO. C-208

SHEET 35 OF 295 SHEETS

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Sheet Version 3.0

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POINT TABLE

POINT #	DESCRIPTION	NORTHING	EASTING
731	DG	1836092.58	6494170.03
732	DG	1836166.33	6494084.38
733	DG	1836163.35	6494091.32
734	DG	1836166.03	6494054.98
735	DG	1836163.05	6494061.93
736	CONC	1836067.20	6494147.31
737	CONC	1836066.87	6494147.34
738	CONC	1836068.47	6494157.21
739	CONC	1836068.13	6494157.24
742	CONC	1835919.48	6494350.45
743	CONC	1835899.46	6494350.91
744	CONC	1835989.67	6494057.80
745	CONC	1836012.09	6494049.55
748	CONC	1836009.79	6494070.61
749	CONC	1836005.82	6494083.52
750	DG	1835978.00	6494108.28
751	DG	1835975.77	6494115.50
752	DG	1835969.18	6494136.95
753	DG	1835966.96	6494144.18
754	DG	1835951.54	6494194.30
755	DG	1835949.32	6494201.53
756	DG	1835942.72	6494222.98
757	DG	1835940.50	6494230.20
758	DG	1836379.98	6493203.24
759	DG	1836378.70	6493209.16
760	DG	1836336.12	6493224.73
761	DG	1836341.17	6493227.97
762	DG	1836257.35	6493252.17
763	DG	1836255.57	6493257.91
764	CONC	1836385.81	6493161.38
765	CONC	1836379.91	6493162.48
766	CONC	1836381.16	6493221.54
767	CONC	1836375.37	6493219.94
768	CONC	1836313.12	6493281.45
769	CONC	1836246.54	6493287.27
770	CONC	1836244.76	6493293.05
771	DG	1836409.73	6493213.74
772	DG	1836406.63	6493228.64
773	DG	1836401.03	6493238.70
774	DG	1836397.94	6493253.60
775	DG	1836394.96	6493233.86
776	DG	1836404.10	6493235.78
777	CONC	1836178.21	6493509.45
778	CONC	1836176.45	6493515.20
779	CONC	1836214.78	6493540.50
780	CONC	1836264.93	6493623.01
781	CONC	1836115.21	6493742.27
782	CONC	1836198.41	6493722.77
783	CONC	1836108.54	6493736.01
784	CONC	1836106.73	6493741.91

POINT TABLE

POINT #	DESCRIPTION	NORTHING	EASTING
785	CONC	1836216.67	6493538.18
786	CONC	1836218.71	6493552.47
787	DG	1836066.53	6494034.64
788	DG	1836071.78	6494048.92
789	DG	1836053.35	6494042.49
790	DG	1836049.59	6494043.87
791	DG	1836065.48	6494058.02
792	DG	1836051.20	6494063.26
793	DG	1836066.48	6494072.39
794	DG	1836067.86	6494076.15
795	DG	1836071.08	6494084.38
796	DG	1836056.80	6494089.63
797	DG	1836045.69	6494047.31
798	DG	1836031.40	6494052.56
799	DG	1836048.47	6494065.31
800	DG	1836056.21	6494086.37
801	DG	1836034.08	6494066.28
802	DG	1836038.09	6494077.21
803	DG	1836022.90	6494053.10
804	DG	1836028.14	6494067.38
805	DG	1836038.81	6494079.91
806	DG	1836044.06	6494094.19
807	DG	1836027.43	6494072.31
808	DG	1836013.15	6494077.56
809	CONC	1836116.11	6494107.75
810	CONC	1836083.91	6494182.77
811	CONC	1836000.86	6494086.02
812	CONC	1835999.06	6494091.88
813	CONC	1836061.41	6494151.28
814	CONC	1835929.95	6494316.44
815	CONC	1835928.04	6494322.61
816	DG	1836140.12	6494237.11
817	DG	1836145.37	6494251.39
818	DG	1836131.61	6494254.06
819	DG	1836134.82	6494262.82
820	DG	1836127.57	6494234.38
821	DG	1836113.29	6494239.63
822	DG	1836125.33	6494257.27
823	DG	1836104.27	6494265.00
824	DG	1836104.06	6494226.22
825	DG	1836109.31	6494240.50
826	DG	1836112.95	6494244.49
827	DG	1836114.33	6494248.25
828	DG	1836095.71	6494245.92
829	DG	1836100.96	6494260.20
830	DG	1836125.22	6494270.88
831	DG	1836119.59	6494272.95
834	CONC	1836026.03	6494369.76
836	CONC	1836051.96	6494360.24
837	BLDR	1836094.34	6494390.18

POINT TABLE

POINT #	DESCRIPTION	NORTHING	EASTING
838	BLDR	1836087.51	6494405.92
839	BLDR	1836080.18	6494390.95
840	BLDR	1836072.35	6494418.54
841	BLDR	1836064.73	6494382.51
842	BLDR	1836053.88	6494417.25
843	BLDR	1836054.90	6494436.73
844	BLDR	1836047.70	6494400.34
845	BLDR	1836039.75	6494419.02
846	BLDR	1836031.50	6494402.31
847	DG	1836087.01	6494399.38
848	DG	1836094.05	6494406.42
849	DG	1836082.24	6494384.72
850	CONC	1836126.49	6494105.44
851	CONC	1836126.35	6494105.74
852	CONC	1836119.42	6494102.22
853	CONC	1836119.28	6494102.52
854	BLDG	1836221.34	6493862.02
855	BLDG	1836176.97	6493872.36
857	CONC	1836517.23	6491183.94
858	CONC	1836517.26	6491184.27
859	WALL	1836425.09	6492147.39
860	WALL	1836411.11	6492146.62
861	WALL	1836411.78	6492179.74
862	WALL	1836425.71	6492178.34
863	WALL	1836487.49	6492209.43
864	WALL	1836450.93	6492215.89
865	WALL	1836478.75	6492225.24
866	CONC/WALL	1836461.48	6492226.78
867	CONC	1836192.80	6494212.03
868	CONC	1836163.38	6494222.81
869	CONC	1836204.92	6494245.13
870	CONC	1836175.51	6494255.93
871	DG	1836443.62	6491858.38
872	DG	1836434.74	6491859.18
873	CONC	1836408.02	6491878.23
874	CONC	1836403.94	6491881.10
875	CONC	1836399.67	6491880.51
876	CONC	1836396.28	6491905.73
877	CONC	1836393.21	6491906.29
878	CONC	1836474.53	6491870.14
879	CONC	1836481.37	6491874.02
880	CONC	1836426.55	6491880.64
881	CONC	1836428.02	6491883.25
882	CONC	1836418.56	6491902.75
883	CONC	1836421.69	6491902.47
884	CONC	1836436.67	6491904.64
885	CONC	1836423.34	6491905.36
886	CONC	1836419.96	6491905.63
887	CONC	1836398.05	6491908.47
888	CONC	1836394.77	6491909.05

POINT TABLE

POINT #	DESCRIPTION	NORTHING	EASTING
889	CONC	1836456.38	6491953.05
890	CONC	1836452.20	6491952.48
891	CONC	1836435.04	6491950.75
892	CONC	1836430.51	6491950.45
893	CONC	1836407.51	6491920.45
894	CONC	1836412.86	6491926.83
895	CONC	1836407.81	6491925.51
896	CONC	1836408.81	6491926.70
897	CONC	1836433.72	6491953.67
898	CONC	1836438.37	6491954.02
899	CONC	1836454.73	6491955.85
900	CONC	1836459.14	6491956.70
901	CONC	1836474.25	6491975.82
902	CONC	1836471.93	6491977.72
903	CONC	1836478.74	6491979.22
904	CONC	1836478.96	6491982.51
905	CONC	1836481.85	6491980.11
906	CONC	1836481.96	6491983.14
907	CONC	1836481.10	6491990.23
908	CONC	1836478.41	6491988.24
909	CONC	1836480.47	6491993.50
910	CONC	1836477.80	6491991.53
911	CONC	1836473.81	6492018.88
912	CONC	1836471.15	6492017.36
913	CONC	1836472.83	6492021.79
914	CONC	1836470.18	6492020.25
915	CONC	1836422.17	6492103.69
916	CONC	1836421.03	6492100.57
917	CONC	1836401.47	6491882.91
918	CONC	1836481.53	6491987.80
919	CONC	1836478.57	6491987.30
920	DG	1836553.81	6491690.61
921	DG	1836550.19	6491676.24
922	DG	1836548.46	6491666.43
923	TREE	1836383.78	6491906.95
924	TREE	1836385.79	6491929.36
925	TREE	1836387.80	6491951.76
926	CONC	1836402.58	6493063.38
927	CONC	1836389.45	6493066.54
928	CONC	1836267.18	6493325.94
929	CONC	1836270.32	6493329.35
931	TREE	1836292.45	6493761.46
932	TREE	1836300.27	6493782.56
933	TREE	1836060.27	6493909.99
934	TREE	1836078.02	6493920.32
935	CONC	1836249.97	6493661.77
936	TREE	1836083.64	6493936.09
937	TREE	1836053.66	6493931.50
938	TREE	1836047.05	6493953.01
939	TREE	1836040.43	6493974.51

LEGEND:

BLDG	BUILDING
BLDR	BOULDERS
CONC	CONCRETE PAVEMENT
DG	DECOMPOSED GRANITE PAVEMENT
WALL	RETAINING WALL

PLANS PREPARED BY:
TETRA TECH, INC.
707 WILSHIRE BLVD, 23RD FLR.
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PHONE: (213) 239-8866

CITY OF LOS ANGELES — DEPARTMENT OF PUBLIC WORKS — BUREAU OF ENGINEERING

VERT. CONTROL: BM 12-04070, 1929 (NGVD29) + 1985 ADJUSTMENT
HORIZ. CONTROL: GPS, PID AE 1704, EPOCH 1991.35

SHEET TITLE: HORIZONTAL CONTROL POINT TABLES SHEET 3
PROJECT: SIXTH STREET PARK, ARTS AND RIVER CONNECTIVITY IMPROVEMENTS (PARC)
ADDRESS: SIXTH STREET OVER THE LOS ANGELES RIVER

GARY LEE MOORE, P.E., ENV SP — CITY ENGINEER
DESIGN GROUP
ENGINEER: JUSTIN SMITH — LIC. NO. C-85736 — DATE: 07/11/22
DESIGNED BY: JUSTIN SMITH
DRAWN BY: MARK CARLOS
CHECKED BY: NATE SCHREINER
APPROVED BY: JASON L. FUSSEL

THIS PLAN WAS ELECTRONICALLY SIGNED AND STAMPED

REGISTERED PROFESSIONAL ENGINEER — JUSTIN T. SMITH — No. 85736 — EXP. 9-30-22 — CIVIL — STATE OF CALIFORNIA

NO.	REVISIONS	DATE	BY

INDEX NO.
BUILDING NO.

WORK ORDER NO. E700235D
FILE NO. --
DRAWING NO. C-209
SHEET 36 OF 295 SHEETS

ENGINEERING — CITY OF LOS ANGELES

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BID SET - NOT FOR CONSTRUCTION

POINT TABLE

POINT #	DESCRIPTION	NORTHING	EASTING
940	DG	1836073.71	6494389.87
941	DG	1836060.29	6494415.87
942	DG	1836054.27	6494423.79
943	DG	1836035.95	6494424.37
944	DG	1836035.04	6494414.45
945	DG	1836025.33	6494404.54
946	DG	1836030.23	6494395.87
947	CONC	1836074.29	6494352.04
948	CONC	1836072.39	6494346.86
949	CONC	1836001.44	6494371.78
950	CONC	1836003.71	6494377.97
951	CONC	1836524.76	6491380.09
952	CONC	1836523.26	6491387.50
953	DG	1836572.57	6491686.10
954	DG	1836569.45	6491689.87
955	DG	1836557.16	6491697.70
956	DG	1836556.61	6491692.84
957	DG	1836552.24	6491673.30
958	DG	1836551.39	6491668.49
959	CONC	1836402.66	6493060.24
960	CONC	1836387.95	6493063.81
961	DG	1836402.31	6493212.20
962	DG	1836399.22	6493227.10
963	DG	1836404.92	6493231.87
964	DG	1836395.79	6493229.94
965	DG	1836393.61	6493237.16
966	DG	1836390.52	6493252.06
967	CONC	1836381.59	6493176.31
968	CONC	1836381.80	6493183.87
969	DG	1836355.09	6493207.82
970	DG	1836348.58	6493211.68
971	DG	1836328.68	6493242.64
972	DG	1836322.82	6493247.41
973	CONC	1836371.25	6493229.69
974	CONC	1836367.68	6493236.35
975	CONC	1836335.17	6493270.33
976	CONC	1836328.70	6493274.25
977	CONC	1836283.76	6493288.38
978	CONC	1836276.22	6493288.99
979	CONC	1836257.40	6493335.65
980	CONC	1836224.07	6493536.56
981	CONC	1836240.56	6493553.52
982	DG	1836168.73	6494056.14
983	DG	1836165.75	6494063.09
984	DG	1836163.64	6494083.21
985	DG	1836160.66	6494090.15
986	DG	1836140.99	6494135.95
987	DG	1836138.01	6494142.90
988	DG	1836124.75	6494158.59
989	DG	1836120.78	6494167.84

POINT TABLE

POINT #	DESCRIPTION	NORTHING	EASTING
990	DG	1836110.67	6494120.43
991	DG	1836107.69	6494127.38
992	DG	1836098.18	6494149.51
993	DG	1836089.88	6494168.87
994	DG	1836145.14	6493582.96
995	DG	1836142.92	6493590.19
996	DG	1836136.33	6493611.64
997	DG	1836134.10	6493618.87
998	DG	1836118.69	6493668.99
999	DG	1836116.47	6493676.22
1000	DG	1836109.87	6493697.66
1001	DG	1836107.65	6493704.89
1002	DG	1836059.42	6494037.25
1003	DG	1836064.67	6494051.53
1004	DG	1836056.57	6494051.25
1005	DG	1836052.81	6494052.63
1006	DG	1836068.09	6494065.13
1007	DG	1836053.81	6494070.38
1008	DG	1836057.72	6494075.61
1009	DG	1836059.09	6494079.37
1010	DG	1836073.69	6494091.50
1011	DG	1836059.41	6494096.74
1012	DG	1836048.30	6494054.42
1013	DG	1836034.01	6494059.67
1014	DG	1836041.36	6494067.93
1015	DG	1836049.10	6494088.98
1016	DG	1836015.78	6494055.71
1017	DG	1836021.03	6494069.99
1018	DG	1836030.04	6494079.42
1019	DG	1836015.76	6494084.67
1020	DG	1836030.33	6494067.66
1021	DG	1836034.35	6494078.61
1022	DG	1836031.70	6494082.52
1023	DG	1836036.94	6494096.81
1024	CONC	1836005.96	6494069.44
1025	CONC	1836001.99	6494082.34
1026	DG	1836133.01	6494239.72
1027	DG	1836138.26	6494254.00
1028	DG	1836130.19	6494241.49
1029	DG	1836115.90	6494246.74
1030	DG	1836127.85	6494255.43
1031	DG	1836131.07	6494264.20
1032	DG	1836096.95	6494228.83
1033	DG	1836102.20	6494243.12
1034	DG	1836102.00	6494248.51
1035	DG	1836103.38	6494252.27
1036	DG	1836127.94	6494264.38
1037	DG	1836106.88	6494272.12
1038	DG	1836088.60	6494248.53
1039	DG	1836093.85	6494262.81

POINT TABLE

POINT #	DESCRIPTION	NORTHING	EASTING
1040	DG	1836126.26	6494273.69
1041	DG	1836120.62	6494275.76
1042	DG	1835983.07	6494109.84
1043	DG	1835980.84	6494117.06
1044	DG	1835974.24	6494138.51
1045	DG	1835972.02	6494145.74
1046	DG	1835956.59	6494195.86
1047	DG	1835954.37	6494203.08
1048	DG	1835947.77	6494224.53
1049	DG	1835945.55	6494231.76
1050	DG	1836090.47	6494406.42
1051	DG	1836087.02	6494402.96
1052	DG	1836081.38	6494388.20
1053	DG	1836077.19	6494390.73
1054	DG	1836056.75	6494416.35
1055	DG	1836053.79	6494420.24
1056	DG	1836037.79	6494416.74
1057	DG	1836038.24	6494421.61
1058	DG	1836031.19	6494399.32
1059	DG	1836028.78	6494403.58
1060	CONC	1836456.36	6492123.66
1061	CONC	1836456.83	6492127.63
1062	CONC	1836435.29	6492155.18
1063	CONC	1836435.25	6492160.30
1064	CONC	1836471.05	6492193.06
1065	CONC	1836471.86	6492195.96
1066	CONC	1836441.09	6492188.24
1067	CONC	1836441.57	6492191.88
1068	CONC	1836462.28	6492047.14
1069	CONC	1836460.94	6492049.83
1070	CONC	1836459.48	6492046.04
1071	CONC	1836458.13	6492048.74
1072	CONC	1836491.59	6492001.33
1073	CONC	1836485.19	6492026.89
1074	CONC	1836484.01	6492029.81
1075	CONC	1836473.57	6492052.65
1076	CONC	1836472.45	6492055.47
1077	CONC	1836221.98	6493542.73
1078	CONC	1836224.42	6493465.85
1079	CONC	1836321.51	6493591.75
1080	CONC	1836226.18	6493554.96
1081	CONC	1836228.42	6493548.97
1082	CONC	1836090.57	6493795.59
1083	CONC	1836090.26	6493795.46
1084	CONC	1836085.64	6493811.62
1085	CONC	1836085.31	6493811.55
1086	CONC	1836248.87	6493371.02
1087	CONC	1836211.86	6493423.62
1088	CONC	1836255.41	6493664.29
1089	CONC	1836258.93	6493622.90

POINT TABLE

POINT #	DESCRIPTION	NORTHING	EASTING
1090	BRAK	1836549.43	6491228.86
1091	BRAK	1836549.67	6491231.85
1092	BRAK	1836549.94	6491234.84
1093	BRAK	1836550.24	6491237.82
1094	BRAK	1836598.95	6491778.61
1095	BRAK	1836598.68	6491775.62
1096	BRAK	1836598.41	6491772.63
1097	BRAK	1836598.14	6491769.65
1098	BRAK	1836419.34	6493169.32
1099	BRAK	1836418.76	6493172.27
1100	BRAK	1836418.17	6493175.21
1101	BRAK	1836417.59	6493178.15
1102	BRAK	1836417.00	6493181.09
1103	BRAK	1836416.41	6493184.04
1104	BRAK	1836415.83	6493186.98
1105	BRAK	1836415.24	6493189.92
1106	BRAK	1836414.66	6493192.86
1107	BRAK	1836414.07	6493195.80
1108	TRASH	1836547.75	6491182.68
1109	TRASH	1836548.02	6491185.66
1110	TRASH	1836594.94	6491706.31
1111	TRASH	1836595.22	6491709.30
1112	TRASH	1836435.51	6491801.36
1113	TRASH	1836432.52	6491801.63
1114	TRASH	1836407.60	6491883.82
1115	TRASH	1836404.60	6491883.83
1116	TRASH	1836312.44	6491895.18
1117	TRASH	1836312.71	6491898.17
1118	TRASH	1836415.64	6493200.70
1119	TRASH	1836415.04	6493203.64
1120	TRASH	1836185.43	6493510.76
1121	TRASH	1836188.18	6493511.95
1122	TRASH	1836307.46	6493644.57
1123	TRASH	1836310.31	6493645.51
1124	TRASH	1836254.89	6493286.87
1125	TRASH	1836251.91	6493286.52
1126	FENC	1836322.52	6493545.97
1127	FENC	1836235.37	6493523.49
1128	FENC	1836371.20	6493357.14
1129	FENC	1836284.05	6493334.68
1130	HOOP	1836226.63	6493784.12
1131	HOOP	1836288.63	6493833.08
1132	BNCH	1836382.66	6493385.94
1133	BNCH	1836385.51	6493386.63
1134	BNCH	1836383.74	6493393.98
1135	BNCH	1836380.89	6493393.30
1136	BNCH	1836372.87	6493425.73
1137	BNCH	1836375.72	6493426.45
1138	BNCH	1836373.87	6493433.78
1139	BNCH	1836371.02	6493433.07

LEGEND:

CONC	CONCRETE PAVEMENT
DG	DECOMPOSED GRANITE PAVEMENT
BRAK	BIKE RACK
TRASH	TRASH BIN
FENC	FENCE
BNCH	BENCH
HOOP	BASKETBALL HOOP

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CITY OF LOS ANGELES — DEPARTMENT OF PUBLIC WORKS — BUREAU OF ENGINEERING

VERT. CONTROL: BM 12-04070, 1929 (NGVD29) • 1985 ADJUSTMENT
HORIZ. CONTROL: GPS; PID AE 1704, EPOCH 1991.35

SHEET TITLE: HORIZONTAL CONTROL POINT TABLES SHEET 4
PROJECT: SIXTH STREET PARK, ARTS AND RIVER CONNECTIVITY IMPROVEMENTS (PARC)
ADDRESS: SIXTH STREET OVER THE LOS ANGELES RIVER

GARY LEE MOORE, P.E., ENV SP — CITY ENGINEER
DESIGN GROUP
ENGINEER: JUSTIN SMITH — LIC. NO. C-85736 — DATE: 07/11/22
DESIGNED BY: JUSTIN SMITH
DRAWN BY: MARK CARLOS
CHECKED BY: NATE SCHREINER
APPROVED BY: JASON L. FUSSEL

THIS PLAN WAS ELECTRONICALLY SIGNED AND STAMPED

REGISTERED PROFESSIONAL ENGINEER — JUSTIN T. SMITH — No. 85736 — EXP. 9-30-22 — CIVIL — STATE OF CALIFORNIA

NO. | REVISIONS: | DATE: | BY:

INDEX NO.

BUILDING NO.

ENGINEERING — CITY OF LOS ANGELES

WORK ORDER NO. E700235D
FILE NO. --
DRAWING NO. C-210
SHEET 37 OF 295 SHEETS

7/11/2022 1:47:53 AM - O:\PROJECTS\IRVINE\20043\200-20043-17001\CAD\SHEETFILES\C-210_HORIZONTAL CONTROL POINT TABLES - TT.DWG - SMITH, JUSTIN

Sheet Version 3.0

BID SET - NOT FOR CONSTRUCTION

POINT TABLE

POINT #	DESCRIPTION	NORTHING	EASTING
1140	BNCH	1836362.76	6493465.43
1141	BNCH	1836365.60	6493466.17
1142	BNCH	1836363.69	6493473.49
1143	BNCH	1836360.85	6493472.75
1144	BNCH	1836352.32	6493505.07
1145	BNCH	1836355.16	6493505.83
1146	BNCH	1836353.18	6493513.14
1147	BNCH	1836350.35	6493512.37
1148	BNCH	1836341.55	6493544.64
1149	BNCH	1836344.38	6493545.38
1150	BNCH	1836342.38	6493552.68
1151	BNCH	1836339.55	6493551.90
1152	BNCH	1836258.75	6493766.69
1153	BNCH	1836257.33	6493771.53
1154	BNCH	1836297.04	6493796.09
1155	BNCH	1836292.80	6493798.72
1156	BNCH	1836265.34	6493774.97
1157	BNCH	1836275.71	6493780.92
1158	BNCH	1836265.69	6493777.31
1159	BNCH	1836273.51	6493781.79
1160	BNCH	1836280.37	6493784.60
1161	BNCH	1836280.03	6493786.95
1162	BNCH	1836288.56	6493793.31
1163	BNCH	1836286.20	6493793.51
1164	BNCH	1836218.48	6493814.25
1165	BNCH	1836214.92	6493816.06
1166	BNCH	1836222.84	6493821.23
1167	BNCH	1836219.64	6493823.64
1168	BNCH	1836227.70	6493827.45
1169	BNCH	1836224.67	6493830.07
1170	BNCH	1836233.60	6493833.18
1171	BNCH	1836231.07	6493836.28
1172	BNCH	1836239.29	6493837.68
1173	BNCH	1836236.86	6493840.86
1174	BNCH	1836246.23	6493842.09
1175	BNCH	1836244.39	6493845.63
1176	BNCH	1836253.41	6493845.38
1177	BNCH	1836251.81	6493849.05
1178	BNCH	1836261.21	6493848.00
1179	BNCH	1836260.27	6493851.88
1180	LF	1836535.84	6491198.89
1181	LF	1836530.45	6491195.99
1182	LF	1836530.93	6491210.65
1183	LF	1836525.38	6491208.39
1184	LF	1836526.10	6491222.43
1185	LF	1836521.15	6491218.47
1186	LF	1836521.27	6491234.22
1187	LF	1836515.73	6491231.94
1188	LP	1836567.80	6491288.22
1189	LP	1836472.58	6491217.22

POINT TABLE

POINT #	DESCRIPTION	NORTHING	EASTING
1190	LP	1836484.94	6491347.88
1191	LF	1836561.67	6491335.49
1192	LF	1836547.58	6491351.77
1193	LP	1836574.84	6491366.34
1194	LF	1836561.66	6491368.05
1195	LF	1836547.57	6491384.33
1196	LF	1836561.65	6491400.61
1197	LF	1836547.64	6491416.89
1198	LF	1836561.64	6491433.18
1199	LF	1836547.63	6491449.45
1200	LP	1836492.29	6491425.53
1201	LF	1836561.63	6491465.74
1202	LF	1836547.62	6491482.01
1203	LF	1836561.62	6491498.30
1204	LF	1836547.61	6491514.57
1205	LF	1836561.60	6491530.86
1206	LF	1836547.60	6491547.13
1207	LF	1836561.57	6491563.40
1208	LF	1836545.57	6491579.49
1209	LP	1836581.89	6491444.46
1210	LP	1836588.93	6491522.57
1211	LP	1836595.97	6491600.69
1212	LP	1836603.01	6491678.81
1213	LP	1836610.01	6491756.91
1214	LP	1836564.53	6491659.85
1215	LP	1836554.14	6491744.78
1216	LP	1836518.04	6491697.48
1217	LP	1836511.11	6491624.29
1218	LP	1836506.63	6491576.76
1219	LP	1836499.83	6491505.17
1220	LP	1836479.66	6491738.83
1221	LP	1836483.24	6491778.46
1222	LP	1836449.63	6491762.44
1223	LP	1836424.40	6491739.60
1224	LP	1836429.08	6491791.40
1225	LP	1836487.87	6491878.05
1226	LP	1836455.70	6491858.54
1227	LP	1836375.68	6491900.45
1228	LP	1836438.59	6491903.93
1229	LP	1836463.29	6491936.86
1230	LP	1836489.30	6491945.43
1231	LP	1836490.99	6492015.79
1232	LP	1836486.12	6492057.65
1233	LP	1836508.57	6492081.85
1234	LP	1836508.64	6492165.38
1235	LP	1836486.44	6492175.18
1236	LP	1836401.10	6492194.72
1237	LP	1836398.70	6492144.87
1238	LP	1836394.60	6492115.62
1239	LP	1836385.45	6492086.98

POINT TABLE

POINT #	DESCRIPTION	NORTHING	EASTING
1240	LP	1836394.32	6492058.66
1241	LP	1836424.81	6492026.52
1242	LP	1836429.09	6491986.74
1243	LP	1836388.45	6491976.19
1244	LP	1836516.34	6491260.67
1245	LP	1836616.14	6493019.93
1246	LP	1836559.96	6493008.37
1247	LP	1836568.66	6492951.38
1248	LP	1836531.11	6492956.73
1249	LP	1836474.83	6492969.98
1250	LP	1836471.93	6493022.78
1251	LP	1836419.78	6492959.57
1252	LP	1836357.23	6493094.68
1253	LP	1836254.85	6493212.62
1254	LP	1836428.39	6493185.48
1255	LP	1836410.24	6493272.58
1256	LP	1836390.56	6493359.35
1257	LP	1836369.35	6493445.77
1258	LP	1836346.62	6493531.80
1259	LP	1836322.40	6493617.42
1260	LP	1836296.67	6493702.60
1261	LP	1836281.99	6493748.83
1262	LP	1836307.51	6493764.68
1263	LP	1836338.42	6493848.12
1264	LP	1836248.60	6493873.64
1265	LP	1836221.87	6493690.16
1266	LP	1836248.03	6493611.62
1267	LP	1836201.88	6493616.15
1268	LP	1836376.40	6493194.35
1269	LF	1836372.26	6493209.42
1270	LF	1836359.76	6493205.78
1271	LF	1836351.36	6493217.50
1272	LF	1836338.18	6493222.19
1273	LF	1836334.25	6493237.17
1274	LF	1836317.64	6493243.41
1275	LF	1836310.64	6493254.76
1276	LF	1836296.03	6493253.70
1277	LF	1836284.90	6493261.61
1278	LF	1836271.56	6493255.16
1279	LF	1836258.34	6493258.96
1280	LF	1836297.14	6493283.10
1281	LP	1836353.44	6493253.97
1282	LP	1836228.39	6493298.65
1283	LP	1836201.92	6493384.67
1284	LP	1836175.46	6493470.69
1285	LP	1836149.00	6493556.72
1286	LP	1836122.57	6493642.75
1287	LP	1836096.12	6493728.77
1288	LP	1836069.61	6493814.78
1289	LP	1836043.21	6493900.82

POINT TABLE

POINT #	DESCRIPTION	NORTHING	EASTING
1290	LP	1836016.75	6493986.84
1291	LF	1836053.42	6493942.60
1292	LP	1836118.81	6493862.26
1293	LP	1836135.83	6493915.06
1294	LP	1836134.41	6493756.37
1295	LP	1836172.01	6493720.08
1296	LP	1836212.44	6493555.07
1297	LP	1836192.23	6493772.66
1298	LP	1836173.62	6493834.42
1299	LP	1836199.11	6493891.82
1300	LP	1836100.59	6494051.91
1301	LP	1836071.27	6494036.62
1302	LP	1836042.63	6494079.41
1303	LF	1836052.89	6494137.92
1304	LF	1836021.02	6494186.71
1305	LP	1836024.82	6494261.60
1306	LP	1835972.61	6494300.50
1307	LP	1836052.87	6494400.06
1308	LP	1836063.20	6494281.02
1309	LP	1836114.31	6494245.30
1310	LF	1836104.89	6494204.86
1311	LF	1836115.21	6494196.02
1312	LF	1836114.50	6494182.45
1313	LF	1836124.43	6494174.73
1314	LF	1836124.73	6494158.62
1315	LF	1836134.92	6494150.11
1316	LF	1836133.99	6494137.07
1317	LF	1836143.35	6494130.46
1318	LF	1836153.69	6494091.17
1319	LF	1836164.61	6494080.94
1320	LF	1836163.31	6494068.76
1321	LF	1836173.82	6494059.47
1322	LF	1836172.74	6494046.69
1323	LF	1836183.30	6494037.42
1324	LF	1836182.28	6494024.58
1325	LF	1836192.80	6494015.38
1326	LF	1836192.12	6494001.67
1327	LF	1836202.23	6493993.31
1328	LP	1836211.10	6493979.46
1329	LP	1836250.13	6494085.53
1330	LP	1836269.67	6494011.71
1331	LP	1836177.91	6494130.69
1332	LP	1836208.88	6494215.20
1333	LP	1836163.58	6494232.11
1334	LP	1835907.37	6494342.39
1335	LP	1835933.78	6494256.35
1336	LP	1835960.28	6494170.34
1337	LP	1835986.74	6494084.32
1338	LP	1836054.06	6494203.10
1339	LP	1836083.79	6494175.45

LEGEND:

BNCH BENCH
LF LIGHT FIXTURE
LP LIGHT POLE

REVISION DATES (DESIGN STAGE ONLY)

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PHONE: (213) 239-8866

CITY OF LOS ANGELES — DEPARTMENT OF PUBLIC WORKS — BUREAU OF ENGINEERING

VERT. CONTROL: BM 12-04070, 1929 (NGVD29) • 1985 ADJUSTMENT
HORIZ. CONTROL: GPS, PID AE 1704, EPOCH 1991.35

SHEET TITLE: HORIZONTAL CONTROL POINT TABLES SHEET 5
PROJECT: SIXTH STREET PARK, ARTS AND RIVER CONNECTIVITY IMPROVEMENTS (PARC)
ADDRESS: SIXTH STREET OVER THE LOS ANGELES RIVER

GARY LEE MOORE, P.E., ENV SP — CITY ENGINEER
DESIGN GROUP
ENGINEER: JUSTIN SMITH LIC. NO. C-85736 DATE: 07/11/22
DESIGNED BY: JUSTIN SMITH
DRAWN BY: MARK CARLOS
CHECKED BY: NATE SCHREINER
APPROVED BY: JASON L. FUSSEL

THIS PLAN WAS ELECTRONICALLY SIGNED AND STAMPED.
REGISTERED PROFESSIONAL ENGINEER — JUSTIN T. SMITH — No. 85736 — EXP. 9-30-22 — CIVIL — STATE OF CALIFORNIA

NO. | REVISIONS | DATE | BY

INDEX NO.
BUILDING NO.

WORK ORDER NO. E700235D
FILE NO. --
DRAWING NO. C-211
SHEET 38 OF 295 SHEETS

Sheet Version 3.0

BID SET - NOT FOR CONSTRUCTION

POINT TABLE

POINT #	DESCRIPTION	NORTHING	EASTING
1340	LP	1836105.35	6494107.46
1341	LP	1836142.25	6494004.85
1342	LP	1836396.09	6493037.48
1343	LP	1836560.76	6491210.10
1344	LP	1836377.18	6493369.01
1345	LP	1836333.49	6493538.47
1348	LP	1836229.40	6493511.63
1349	LP	1836274.67	6493787.02
1350	LP	1836273.08	6493342.17
1351	TREE	1836547.64	6491191.36
1352	TREE	1836549.91	6491218.12
1353	TREE	1836552.35	6491245.01
1354	TREE	1836565.83	6491394.44
1355	TREE	1836568.52	6491424.31
1356	TREE	1836571.22	6491454.19
1357	TREE	1836573.91	6491484.07
1358	TREE	1836576.59	6491513.87
1359	TREE	1836579.37	6491543.83
1360	TREE	1836581.99	6491573.71
1361	TREE	1836584.68	6491603.59
1362	TREE	1836587.38	6491633.47
1363	TREE	1836590.07	6491663.35
1364	TREE	1836592.76	6491693.22
1365	TREE	1836595.46	6491723.10
1366	TREE	1836598.15	6491752.98
1367	TREE	1836600.84	6491782.86
1368	TREE	1836574.51	6491787.07
1369	TREE	1836550.95	6491723.15
1370	TREE	1836529.97	6491706.98
1371	TREE	1836568.67	6491643.84
1372	TREE	1836558.57	6491613.64
1373	TREE	1836568.84	6491598.82
1374	TREE	1836539.86	6491577.63
1375	TREE	1836528.13	6491611.54
1376	TREE	1836517.19	6491597.71
1377	TREE	1836517.98	6491582.03
1378	TREE	1836531.05	6491562.65
1379	TREE	1836524.46	6491532.47
1380	TREE	1836516.88	6491518.61
1381	TREE	1836533.95	6491496.45
1382	TREE	1836541.60	6491513.03
1383	TREE	1836543.13	6491481.99
1384	TREE	1836540.63	6491456.33
1385	TREE	1836536.63	6491436.74
1386	TREE	1836543.64	6491423.47
1387	TREE	1836518.02	6491378.89
1388	TREE	1836515.48	6491347.18
1389	TREE	1836527.85	6491332.03
1390	TREE	1836527.10	6491291.78
1391	TREE	1836511.94	6491276.40

POINT TABLE

POINT #	DESCRIPTION	NORTHING	EASTING
1392	TREE	1836533.13	6491263.03
1393	TREE	1836511.39	6491234.03
1394	TREE	1836503.97	6491220.99
1395	TREE	1836519.43	6491207.95
1396	TREE	1836514.19	6491196.47
1397	TREE	1836499.08	6491253.39
1398	TREE	1836488.04	6491270.06
1399	TREE	1836497.95	6491386.89
1400	TREE	1836503.12	6491406.09
1401	TREE	1836380.26	6491979.69
1402	TREE	1836382.51	6492004.59
1403	TREE	1836384.76	6492029.49
1404	TREE	1836386.92	6492054.39
1405	TREE	1836515.46	6492083.36
1406	TREE	1836522.91	6492151.63
1407	TREE	1836522.23	6492172.46
1408	TREE	1836645.21	6493038.81
1409	TREE	1836632.80	6493017.12
1410	TREE	1836617.95	6492997.03
1411	TREE	1836548.89	6492949.33
1412	TREE	1836570.27	6492982.91
1413	TREE	1836583.58	6492998.21
1414	TREE	1836573.74	6493009.39
1415	TREE	1836579.46	6493024.33
1416	TREE	1836558.39	6493033.41
1417	TREE	1836535.03	6493013.95
1418	TREE	1836538.72	6492991.98
1419	TREE	1836530.51	6493060.44
1420	TREE	1836517.20	6493057.75
1421	TREE	1836520.74	6492959.86
1422	TREE	1836479.80	6492922.10
1423	TREE	1836490.26	6492935.12
1424	TREE	1836491.87	6492958.70
1425	TREE	1836482.78	6492968.83
1426	TREE	1836473.62	6492943.61
1427	TREE	1836471.59	6493068.37
1428	TREE	1836457.14	6493062.66
1429	TREE	1836354.55	6492945.54
1430	TREE	1836334.93	6492951.81
1431	TREE	1836344.23	6492979.07
1432	TREE	1836326.12	6492980.89
1433	TREE	1836350.87	6492994.99
1434	TREE	1836336.13	6492999.01
1435	TREE	1836317.31	6493009.57
1436	TREE	1836331.58	6493041.07
1437	TREE	1836337.07	6493056.72
1438	TREE	1836304.81	6493050.24
1439	TREE	1836322.80	6493063.11
1440	TREE	1836296.00	6493078.91
1441	TREE	1836287.18	6493107.58

POINT TABLE

POINT #	DESCRIPTION	NORTHING	EASTING
1442	TREE	1836347.01	6493180.39
1443	TREE	1836335.46	6493196.82
1444	TREE	1836300.93	6493186.23
1445	TREE	1836306.25	6493203.00
1446	TREE	1836279.81	6493198.98
1447	TREE	1836282.12	6493219.99
1448	TREE	1836270.22	6493232.05
1449	TREE	1836259.26	6493198.29
1450	TREE	1836250.44	6493226.97
1451	TREE	1836261.49	6493248.78
1452	TREE	1836241.62	6493255.64
1453	TREE	1836254.83	6493278.10
1454	TREE	1836248.41	6493299.01
1455	TREE	1836232.80	6493284.32
1456	TREE	1836223.98	6493312.99
1457	TREE	1836248.29	6493325.42
1458	TREE	1836236.52	6493343.66
1459	TREE	1836215.16	6493341.66
1460	TREE	1836206.35	6493370.34
1461	TREE	1836197.53	6493399.01
1462	TREE	1836246.51	6493354.64
1463	TREE	1836245.82	6493371.60
1464	TREE	1836228.84	6493384.58
1465	TREE	1836218.63	6493423.29
1466	TREE	1836225.23	6493437.55
1467	TREE	1836214.69	6493456.66
1468	TREE	1836188.71	6493427.69
1469	TREE	1836197.37	6493457.33
1470	TREE	1836179.89	6493456.36
1471	TREE	1836189.98	6493481.23
1472	TREE	1836171.07	6493485.04
1473	TREE	1836182.64	6493505.12
1474	TREE	1836221.88	6493469.83
1475	TREE	1836217.52	6493486.05
1476	TREE	1836220.70	6493501.59
1477	TREE	1836204.48	6493504.84
1478	TREE	1836209.04	6493519.04
1479	TREE	1836162.26	6493513.71
1480	TREE	1836171.45	6493541.74
1481	TREE	1836207.02	6493552.65
1482	TREE	1836191.43	6493557.17
1483	TREE	1836163.49	6493567.54
1484	TREE	1836153.44	6493542.39
1485	TREE	1836144.62	6493571.06
1486	TREE	1836155.55	6493593.35
1487	TREE	1836135.80	6493599.74
1488	TREE	1836147.65	6493619.17
1489	TREE	1836126.98	6493628.41
1490	TREE	1836139.74	6493644.98
1491	TREE	1836118.16	6493657.09

POINT TABLE

POINT #	DESCRIPTION	NORTHING	EASTING
1492	TREE	1836131.74	6493670.77
1493	TREE	1836123.81	6493696.58
1494	TREE	1836109.35	6493685.76
1495	TREE	1836100.53	6493714.44
1496	TREE	1836115.99	6493722.43
1497	TREE	1836091.71	6493743.11
1498	TREE	1836113.21	6493749.87
1499	TREE	1836082.89	6493771.79
1500	TREE	1836074.07	6493800.46
1501	TREE	1836065.26	6493829.14
1502	TREE	1836056.44	6493857.81
1503	TREE	1836147.95	6493704.00
1504	TREE	1836160.05	6493726.56
1505	TREE	1836195.71	6493737.16
1506	TREE	1836180.95	6493591.60
1507	TREE	1836195.32	6493605.51
1508	TREE	1836234.35	6494002.95
1509	TREE	1836253.72	6494001.58
1510	TREE	1836264.05	6494029.75
1511	TREE	1836274.39	6494057.91
1512	TREE	1836255.84	6494068.12
1513	TREE	1836243.98	6494057.13
1514	TREE	1836233.59	6494031.71
1515	TREE	1836223.91	6494012.71
1516	TREE	1836217.03	6494038.62
1517	TREE	1836207.63	6494052.56
1518	TREE	1836235.27	6494074.24
1519	TREE	1836193.98	6494081.15
1520	TREE	1836186.94	6494059.90
1521	TREE	1836174.63	6494070.52
1522	TREE	1836161.95	6494120.56
1523	TREE	1836172.28	6494148.73
1524	TREE	1836182.61	6494176.89
1525	TREE	1836192.95	6494205.06
1526	TREE	1836203.28	6494233.22
1527	TREE	1836171.85	6494210.19
1528	TREE	1836161.92	6494171.16
1529	TREE	1836153.27	6494162.92
1530	TREE	1836154.01	6494190.98
1531	TREE	1836157.57	6494202.15
1532	TREE	1836155.65	6494225.31
1533	TREE	1836164.49	6494253.22
1534	TREE	1836149.39	6494242.38
1535	TREE	1836135.63	6494233.58
1536	TREE	1836128.89	6494248.66
1537	TREE	1836142.79	6494262.18
1538	TREE	1836118.40	6494231.08
1539	TREE	1836111.55	6494255.66
1540	TREE	1836102.08	6494276.93
1541	TREE	1836094.51	6494240.37

LEGEND:

CONC	CONCRETE PAVEMENT
DG	DECOMPOSED GRANITE PAVEMENT
LP	LIGHT POLE
TREE	TREE MISCELLANEOUS

REVISION DATES (DESIGN STAGE ONLY)

Sheet Version 3.0

PLANS PREPARED BY: TETRA TECH, INC.
707 WILSHIRE BLVD, 23RD FLR.
LOS ANGELES, CA 90017
PHONE: (213) 239-8866

CITY OF LOS ANGELES — DEPARTMENT OF PUBLIC WORKS — BUREAU OF ENGINEERING

VERT. CONTROL: BM 12-04070, 1929 (NGVD29) • 1985 ADJUSTMENT
HORIZ. CONTROL: GPS, PID AE 1704, EPOCH 1991.35

SHEET TITLE: HORIZONTAL CONTROL POINT TABLES SHEET 6
PROJECT: SIXTH STREET PARK, ARTS AND RIVER CONNECTIVITY IMPROVEMENTS (PARC)
ADDRESS: SIXTH STREET OVER THE LOS ANGELES RIVER

GARY LEE MOORE, P.E., ENV SP — CITY ENGINEER
DESIGN GROUP
ENGINEER: JUSTIN SMITH LIC. NO. C-85736 DATE: 07/11/22
DESIGNED BY: JUSTIN SMITH
DRAWN BY: MARK CARLOS
CHECKED BY: NATE SCHREINER
APPROVED BY: JASON L. FUSSEL

THIS PLAN WAS ELECTRONICALLY SIGNED AND STAMPED

REGISTERED PROFESSIONAL ENGINEER — JUSTIN T. SMITH — No. 85736 — EXP. 9-30-22 — CIVIL — STATE OF CALIFORNIA

NO. | REVISIONS | DATE | BY

INDEX NO.

BUILDING NO.

ENGINEERING — CITY OF LOS ANGELES

WORK ORDER NO. E700235D
FILE NO. --
DRAWING NO. C-212
SHEET 39 OF 295 SHEETS

7/11/2022 1:55:05 AM - O:\PROJECTS\IRVINE\20043\200-20043-17001\CAD\SHEETFILES\C-212_HORIZONTAL CONTROL POINT TABLES - TT.DWG - SMITH, JUSTIN

BID SET - NOT FOR CONSTRUCTION

POINT TABLE

POINT #	DESCRIPTION	NORTHING	EASTING
1542	TREE	1836085.58	6494264.92
1543	TREE	1836078.22	6494281.64
1544	TREE	1836047.62	6493886.48
1545	TREE	1836038.80	6493915.16
1546	TREE	1836029.98	6493943.83
1547	TREE	1836021.16	6493972.51
1548	TREE	1836073.56	6494040.67
1549	TREE	1836057.86	6494053.97
1550	TREE	1836046.35	6494040.47
1551	TREE	1836040.23	6494065.03
1552	TREE	1836025.97	6494048.35
1553	TREE	1836026.79	6494087.52
1554	TREE	1836013.75	6494069.13
1555	TREE	1835991.15	6494069.98
1556	TREE	1835982.32	6494098.65
1557	TREE	1835997.56	6494106.92
1558	TREE	1836007.10	6494145.20
1559	TREE	1836031.21	6494134.96
1560	TREE	1836022.11	6494111.68
1561	TREE	1835990.22	6494130.83
1562	TREE	1835973.50	6494127.33
1563	TREE	1835964.68	6494156.00
1564	TREE	1835975.54	6494178.62
1565	TREE	1835955.85	6494184.67
1566	TREE	1835968.20	6494202.51
1567	TREE	1835947.03	6494213.34
1568	TREE	1835960.86	6494226.42
1569	TREE	1835938.20	6494242.02
1570	TREE	1835953.52	6494250.29
1571	TREE	1835946.17	6494274.21
1572	TREE	1835929.38	6494270.69
1573	TREE	1835938.83	6494298.10
1574	TREE	1835920.55	6494299.36
1575	TREE	1835911.73	6494328.04
1576	TREE	1836133.18	6494162.45
1577	TREE	1836132.11	6494175.94
1578	TREE	1836123.02	6494186.00
1579	TREE	1836095.52	6494350.60
1580	TREE	1836105.87	6494378.76
1581	TREE	1836116.23	6494406.91
1582	TREE	1836126.58	6494435.07
1583	TREE	1836136.94	6494463.23
1584	TREE	1836109.89	6494456.52
1585	TREE	1836097.41	6494469.70
1586	TREE	1836088.86	6494453.29
1587	TREE	1836070.93	6494470.04
1588	TREE	1836050.36	6494459.07
1589	TREE	1836031.20	6494463.70
1590	TREE	1836002.59	6494460.80
1591	TREE	1836004.11	6494478.16

POINT TABLE

POINT #	DESCRIPTION	NORTHING	EASTING
1592	TREE	1835984.26	6494482.75
1593	TREE	1835887.68	6494409.61
1594	TREE	1836064.11	6494605.38
1595	TREE	1836042.58	6494603.01
1596	TREE	1836016.51	6494615.39
1597	TREE	1835998.83	6494595.47
1598	TREE	1836000.55	6494620.49
1599	TREE	1835981.39	6494606.46
1600	TREE	1835971.17	6494622.35
1601	TREE	1835969.08	6494594.00
1602	TREE	1835939.41	6494586.49
1603	TREE	1835945.92	6494601.33
1604	TREE	1835948.53	6494628.46
1605	TREE	1835951.09	6494641.66
1606	TREE	1835934.60	6494651.94
1607	TREE	1835932.28	6494627.17
1608	TREE	1835930.13	6494603.41
1609	TREE	1835916.30	6494647.63
1610	TREE	1835911.78	6494669.17
1611	TREE	1835886.87	6494685.11
1612	TRASH	1836047.63	6494107.08
1613	TRASH	1836045.49	6494104.98
1614	TRASH	1836150.26	6494263.30
1615	TRASH	1836153.08	6494262.27
1616	EQPT	1836089.35	6494143.15
1617	EQPT	1836082.69	6494128.66
1618	EQPT	1836085.95	6494122.44
1619	EQPT	1836101.87	6494116.35
1620	EQPT	1836103.05	6494123.81
1621	EQPT	1836110.05	6494111.96
1622	EQPT	1836079.97	6494161.89
1623	EQPT	1836085.73	6494160.42
1624	EQPT	1836575.97	6491749.58
1625	TRASH	1836040.76	6493961.77
1626	TRASH	1836039.83	6493964.63
1627	BNCH	1836089.42	6493868.20
1628	BNCH	1836088.67	6493872.13
1629	BNCH	1836070.83	6493871.23
1630	BNCH	1836072.78	6493874.72
1631	BNCH	1836062.97	6493896.37
1632	BNCH	1836066.85	6493895.38
1633	BNCH	1836071.35	6493905.35
1634	BNCH	1836068.04	6493907.60
1635	TREE	1836135.11	6493728.31
1636	TREE	1836265.59	6493312.16
1637	TREE	1836265.68	6493296.94
1638	TREE	1836529.68	6491193.96
1639	TREE	1836542.73	6491552.34
1640	TREE	1835982.88	6494154.72
1641	TREE	1836319.36	6493264.79

POINT TABLE

POINT #	DESCRIPTION	NORTHING	EASTING
1642	TREE	1836302.38	6493281.21
1643	TREE	1836274.89	6493265.65
1644	LP	1836240.57	6493830.20
1645	TREE	1836046.39	6494097.49
1646	TREE	1836191.51	6493537.21

LEGEND:

TREE	TREE MISCELLANEOUS
BNCH	BENCH
TRASH	TRASH BIN
EQPT	EXERCISE EQUIPMENT
LP	LIGHT POLE

THE CITY OF LOS ANGELES OR ITS OFFICERS OR AGENTS SHALL NOT BE RESPONSIBLE FOR THE ACCURACY OR COMPLETENESS OF ELECTRONIC COPIES OF THIS PLAN SHEET.

REVISION DATES (DESIGN STAGE ONLY)

Sheet Version 3.0

PLANS PREPARED BY:
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PHONE: (213) 239-8866

CITY OF LOS ANGELES — DEPARTMENT OF PUBLIC WORKS — BUREAU OF ENGINEERING

VERT. CONTROL: BM 12-04070, 1929 (NGVD29) - 1985 ADJUSTMENT
HORIZ. CONTROL: GPS; PID AE 1704, EPOCH 1991.35

SHEET TITLE: HORIZONTAL CONTROL POINT TABLES SHEET 7
PROJECT: SIXTH STREET PARK, ARTS AND RIVER CONNECTIVITY IMPROVEMENTS (PARC)
ADDRESS: SIXTH STREET OVER THE LOS ANGELES RIVER

GARY LEE MOORE, P.E., ENV SP — CITY ENGINEER
DESIGN GROUP
ENGINEER: JUSTIN SMITH LIC. NO. C-85736 DATE: 07/11/22
DESIGNED BY: JUSTIN SMITH
DRAWN BY: MARK CARLOS
CHECKED BY: NATE SCHREINER
APPROVED BY: JASON L. FUSSEL

• THIS PLAN WAS ELECTRONICALLY SIGNED AND STAMPED •

REGISTERED PROFESSIONAL ENGINEER — JUSTIN T. SMITH — No. 85736 — EXP: 9-30-22 — CIVIL — STATE OF CALIFORNIA

NO. REVISIONS: DATE: BY:

INDEX NO.

BUILDING NO.

ENGINEERING CITY OF LOS ANGELES

WORK ORDER NO. E700235D
FILE NO. --
DRAWING NO. C-213
SHEET 40 OF 295 SHEETS

7/11/2022 1:58:08 AM - O:\PROJECTS\IRVINE\20043\200-20043-17001\CAD\SHEETFILES\C-213_HORIZONTAL CONTROL POINT TABLES - TT.DWG - SMITH, JUSTIN

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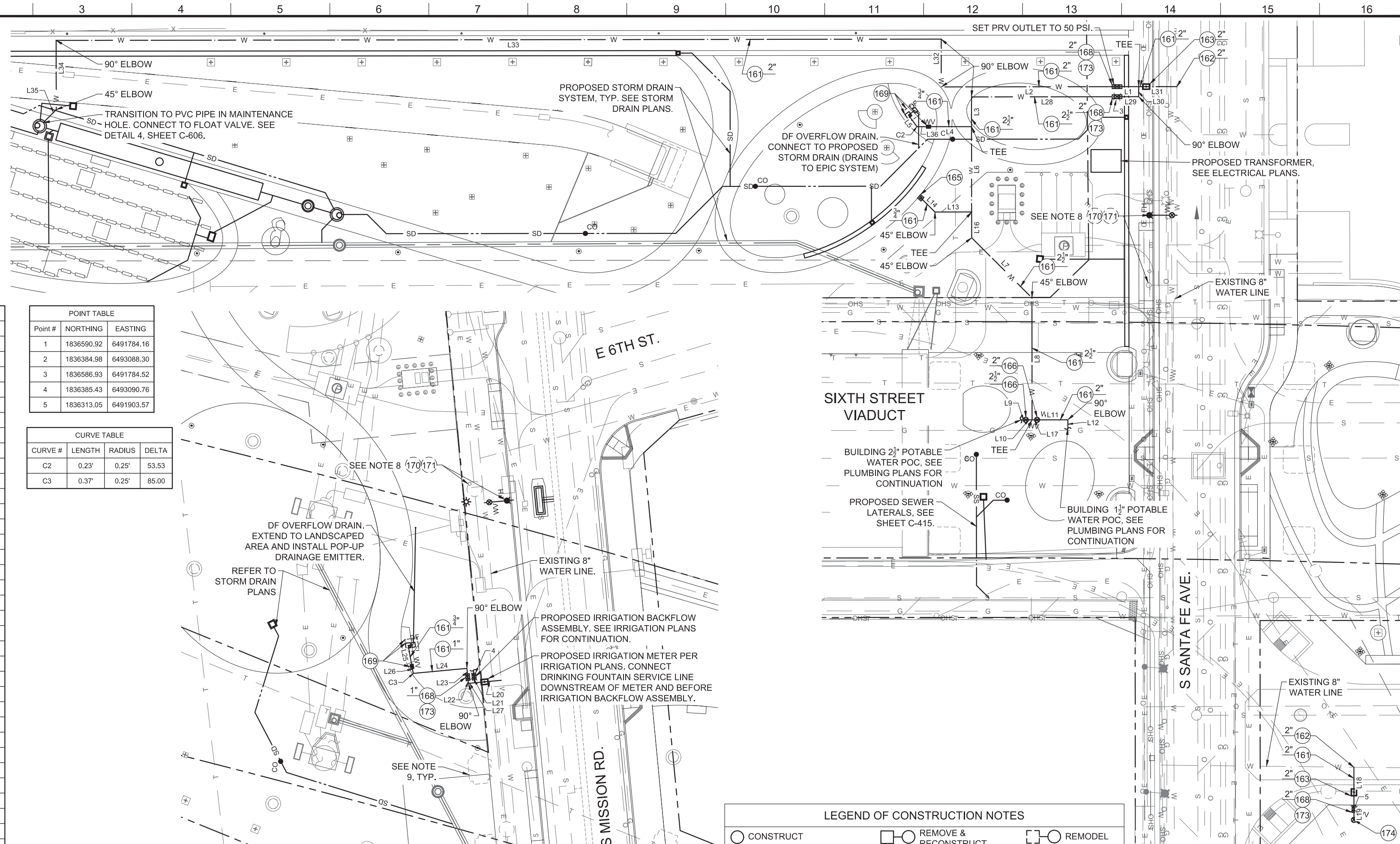

LINE TABLE		
LINE #	LENGTH	BEARING
L1	8.60'	S84° 49' 19"W
L2	69.90'	S84° 49' 19"W
L3	11.81'	S05° 10' 41"E
L4	17.11'	S84° 49' 19"W
L5	5.60'	N41° 39' 04"W
L6	33.96'	S05° 10' 41"E
L7	33.83'	S50° 10' 41"E
L8	48.56'	S05° 10' 41"E
L9	1.90'	N84° 49' 19"E
L10	2.50'	N84° 49' 19"E
L11	12.23'	N84° 49' 19"E
L12	3.42'	S05° 10' 41"E
L13	14.57'	S84° 49' 19"W
L14	8.00'	N50° 10' 41"W
L16	10.25'	S05° 10' 41"E
L17	2.00'	N84° 49' 19"E
L18	16.65'	S05° 10' 41"E
L19	4.31'	S05° 10' 41"E
L20	10.66'	S79° 33' 47"W
L21	2.50'	S10° 26' 13"E
L22	2.50'	N10° 26' 13"W
L23	3.50'	N10° 26' 13"W
L24	21.22'	S79° 33' 47"W
L25	8.48'	N15° 26' 13"W
L26	2.58'	S15° 26' 12"E
L27	2.50'	N79° 33' 47"E
L28	57.90'	S84° 49' 19"W
L29	8.60'	S84° 49' 19"W
L30	4.00'	N05° 10' 41"W
L31	15.20'	S84° 49' 19"W
L32	19.00'	N05° 10' 41"W
L33	352.05'	S84° 49' 19"W
L34	27.57'	S05° 10' 41"E
L35	7.26'	S39° 49' 19"W
L36	4.46'	N84° 49' 19"E

POINT TABLE		
Point #	NORTHING	EASTING
1	1836590.92	6491784.16
2	1836384.98	6493088.30
3	1836586.93	6491784.52
4	1836385.43	6493090.76
5	1836313.05	6491903.57

CURVE TABLE			
CURVE #	LENGTH	RADIUS	DELTA
C2	0.23'	0.25'	53.53
C3	0.37'	0.25'	85.00

LEGEND OF CONSTRUCTION NOTES

CONSTRUCT — REMOVE & RECONSTRUCT — REMODEL

NO.	CONSTRUCTION ITEM/NOTE	STANDARD PLAN
161	TYPE K HARD COPPER WATER LINE	DTL 1, SHT C-604
162	SERVICE TAP WITH CORP STOP AND SERVICE SADDLE	LADWP STD
163	DOMESTIC WATER METER AND BOX	LADWP STD
164	HOT TAP EXISTING WATER LINE	LADWP STD
165	IN-GROUND HOSE BOX	DTL 3, SHT C-604
166	WATER SHUT-OFF VALVE	DTL 4, SHT C-604
168	DOMESTIC REDUCED PRESSURE BACKFLOW ASSEMBLY (≤2"Ø)	DTL 7, SHT C-604
169	DRINKING FOUNTAIN, VALVE, DRAINAGE SUMP & OVERFLOW	DTL 3, SHT C-605
170	GATE VALVE	LADWP STD
171	FIRE HYDRANT	LADWP STD
173	BACKFLOW ENCLOSURE	DTL 8, SHT C-604
174	POTABLE QUICK COUPLER VALVE	DTL 4, SHT C-611

LEGEND:

- PROPERTY / BOUNDARY LINE
- EASEMENT BOUNDARY LINE
- EXISTING SANITARY SEWER
- EXISTING WATER LINE
- EXISTING STORM DRAIN
- EXISTING GAS LINE
- EXISTING UNDERGROUND/OVERHEAD TELECOMMUNICATIONS LINE
- EXISTING OIL LINE
- EXISTING OVERHEAD ELECTRICAL
- EXISTING UNDERGROUND ELECTRICAL
- PROPOSED WATER LINE
- PROPOSED SANITARY SEWER LINE
- PROPOSED STORM DRAIN MAIN LINE (Ø ≥ 18")
- PROPOSED STORM DRAIN LATERAL (Ø ≤ 18")

NOTES:

1. EXISTING UTILITIES ARE SHOWN FOR REFERENCE ONLY. ACTUAL LOCATIONS MAY VARY. CONTRACTOR TO VERIFY THE LOCATIONS AND ELEVATIONS OF EXISTING UTILITIES IN THE FIELD.
2. CONTRACTOR SHALL COORDINATE THE INSTALLATION OF ALL SERVICE TAPS AND WATER METERS WITH LADWP. CONTRACTOR SHALL BE RESPONSIBLE FOR THE PAYMENT OF ALL FEES.
3. THRUST BLOCKS SHALL BE CONSTRUCTED AT ALL VERTICAL AND HORIZONTAL FITTINGS AND ANGLES FOR PIPES WITHOUT RESTRAINED JOINTS PER DETAIL 5, SHEET C-604.
4. POTABLE WATER LINES SHALL BE LOCATED 1' MINIMUM (OD TO OD) ABOVE ALL CROSSING SANITARY SEWER AND STORM DRAIN LINES. 10' MINIMUM (OD TO OD) HORIZONTAL CLEARANCE SHALL BE MAINTAINED BETWEEN PARALLEL SANITARY SEWER AND POTABLE WATER LINES. 4' MINIMUM (OD TO OD) HORIZONTAL CLEARANCE SHALL BE MAINTAINED BETWEEN PARALLEL STORM DRAIN AND POTABLE WATER LINES.
5. REFER TO STORM DRAINAGE SHEETS FOR PROPOSED STORM DRAINAGE SYSTEMS.
6. REFER TO SANITARY SEWER SHEETS FOR PROPOSED SEWER LATERALS.
7. PROPOSED ELECTRICAL CONDUIT NOT SHOWN FOR CLARITY. REFER TO ELECTRICAL PLANS. CONTRACTOR RESPONSIBLE FOR ALL COORDINATION TO AVOID CONFLICTS WITH THE PROPOSED POTABLE WATER SYSTEMS.
8. EXISTING FIRE HYDRANTS TO BE RELOCATED BY LADWP. CONTRACTOR RESPONSIBLE FOR ALL COORDINATION AND PAYMENT OF ANY REQUIRED FEES.
9. VIADUCT CONTRACTOR REMOVED PORTIONS OF THE OLD VIADUCT REINFORCED CONCRETE FOUNDATIONS TO A DEPTH OF A FEW FEET BELOW THE EXISTING GROUND SURFACE. PARC CONTRACTOR SHALL BE RESPONSIBLE FOR VERIFYING EXISTING CONDITIONS AND REMOVING ANY ADDITIONAL PORTIONS OF THE FOUNDATIONS THAT CONFLICT WITH THE PROPOSED PARC IMPROVEMENTS.

REVISION DATES (DESIGN STAGE ONLY)

Sheet Version 3.0

PLANS PREPARED BY:

TETRA TECH, INC.
707 WILSHIRE BLVD, 23RD FLR.
LOS ANGELES, CA 90017
PHONE: (213) 239-8866

CITY OF LOS ANGELES — DEPARTMENT OF PUBLIC WORKS — BUREAU OF ENGINEERING

VERT. CONTROL: BM 12-04070, 1929 (NGVD29) - 1985 ADJUSTMENT
HORIZ. CONTROL: GPS; PID AE 1704, EPOCH 1991.35

SHEET TITLE: DOMESTIC WATER PLAN SHEET 1
PROJECT: SIXTH STREET PARK, ARTS AND RIVER CONNECTIVITY IMPROVEMENTS (PARC)
ADDRESS: SIXTH STREET OVER THE LOS ANGELES RIVER

GARY LEE MOORE, P.E., ENV SP — CITY ENGINEER
DESIGN GROUP — DATE:
ENGINEER: JUSTIN SMITH — LIC. NO. C-85736 — 07/11/22
DESIGNED BY: JUSTIN SMITH
DRAWN BY: MARK CARLOS
CHECKED BY: NATE SCHREINER
APPROVED BY: JASON L. FUSSEL

THIS PLAN WAS ELECTRONICALLY SIGNED AND STAMPED.

REGISTERED PROFESSIONAL ENGINEER — JUSTIN T. SMITH — No. 85736 — EXP. 9-30-22 — CIVIL — STATE OF CALIFORNIA

NO. | REVISIONS: | DATE: | BY:

INDEX NO.

BUILDING NO.

ENGINEERING — CITY OF LOS ANGELES

WORK ORDER NO. E700235D
FILE NO. --
DRAWING NO. C-400
SHEET 41 OF 295 SHEETS

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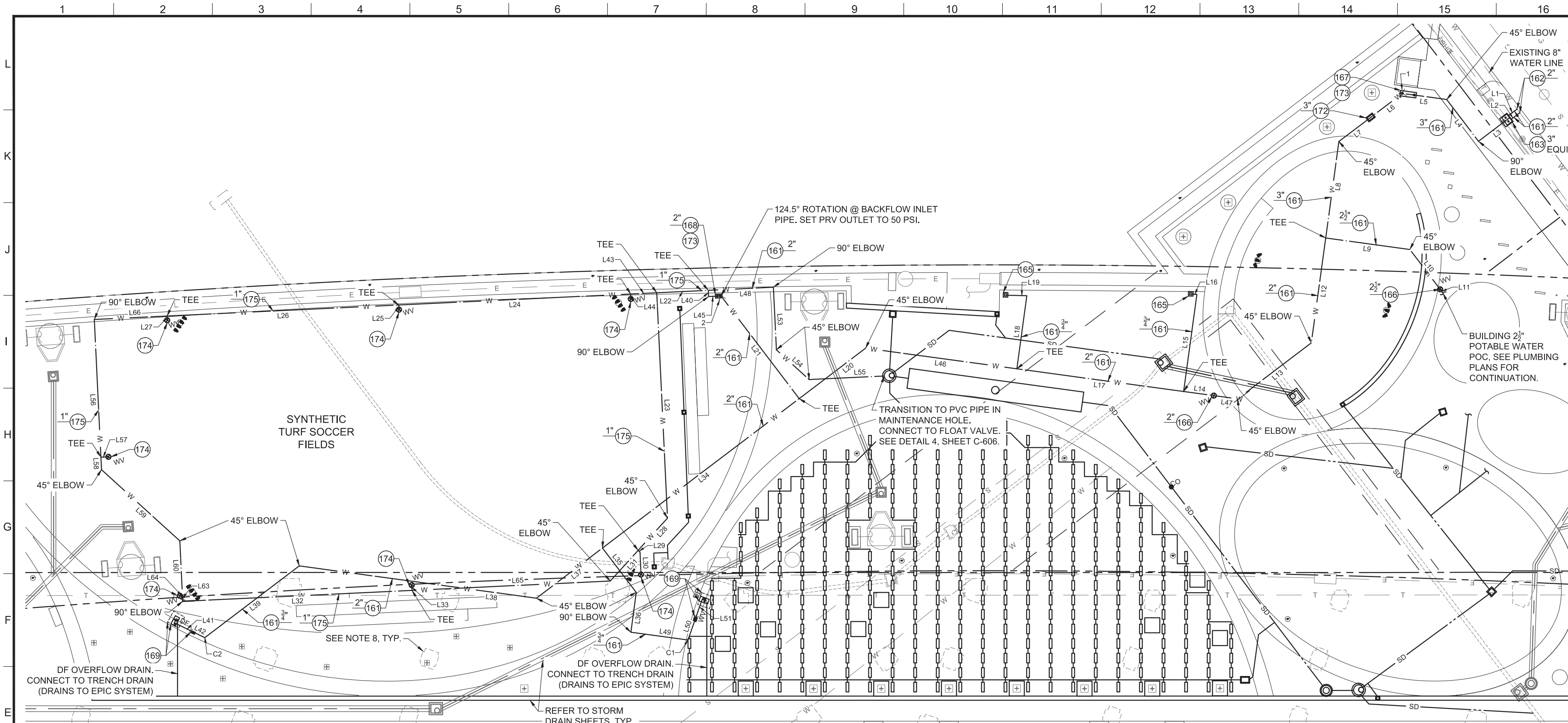
BID SET - NOT FOR CONSTRUCTION



LEGEND:

	PROPERTY / BOUNDARY LINE
	EASEMENT BOUNDARY LINE
S	EXISTING SANITARY SEWER
W	EXISTING WATER LINE
	EXISTING STORM DRAIN
G	EXISTING GAS LINE
T	EXISTING UNDERGROUND/OVERHEAD TELECOMMUNICATIONS LINE
O	EXISTING OIL LINE
OHS	EXISTING OVERHEAD ELECTRICAL
E	EXISTING UNDERGROUND ELECTRICAL
W	PROPOSED WATER LINE
SS	PROPOSED SANITARY SEWER LINE
	PROPOSED STORM DRAIN MAIN LINE (Ø ≥ 18")
SD	PROPOSED STORM DRAIN LATERAL (Ø ≤ 18")

0 10 20 40
SCALE: 1"=20'

LEGEND OF CONSTRUCTION NOTES

◯ CONSTRUCT

NO.	CONSTRUCTION ITEM/NOTE	STANDARD PLAN
161	TYPE K HARD COPPER WATER LINE	DTL 1, SHT C-604
162	SERVICE TAP WITH CORP STOP AND SERVICE SADDLE	LADWP STD
163	DOMESTIC WATER METER AND BOX	LADWP STD
165	IN-GROUND HOSE BOX	DTL 3, SHT C-604
166	WATER SHUT-OFF VALVE	DTL 4, SHT C-604
167	DOMESTIC REDUCED PRESSURE BACKFLOW ASSEMBLY (3"Ø)	DTL 6, SHT C-604
168	DOMESTIC REDUCED PRESSURE BACKFLOW ASSEMBLY (≤2"Ø)	DTL 7, SHT C-604
169	DRINKING FOUNTAIN, VALVE, DRAINAGE SUMP & OVERFLOW	DTL 3, SHT C-605
172	PRESSURE REDUCING VALVE	DTL 2, SHT C-604
173	BACKFLOW ENCLOSURE	DTL 8, SHT C-604
174	POTABLE QUICK COUPLER VALVE	DTL 4, SHT C-611
175	SCH 40 PVC WATER LINE	DTL 1, SHT C-604

NOTES:

1. EXISTING UTILITIES ARE SHOWN FOR REFERENCE ONLY. ACTUAL LOCATIONS MAY VARY. CONTRACTOR TO VERIFY THE LOCATIONS AND ELEVATIONS OF EXISTING UTILITIES IN THE FIELD.
2. CONTRACTOR SHALL COORDINATE THE INSTALLATION OF ALL SERVICE TAPS AND WATER METERS WITH LADWP. CONTRACTOR SHALL BE RESPONSIBLE FOR THE PAYMENT OF ALL FEES.
3. THRUST BLOCKS SHALL BE CONSTRUCTED AT ALL VERTICAL AND HORIZONTAL FITTINGS AND ANGLES FOR PIPES WITHOUT RESTRAINED JOINTS PER DETAIL 5, SHEET C-604.
4. POTABLE WATER LINES SHALL BE LOCATED 1' MINIMUM (OD TO OD) ABOVE ALL CROSSING SANITARY SEWER AND STORM DRAIN LINES. 10' MINIMUM (OD TO OD) HORIZONTAL CLEARANCE SHALL BE MAINTAINED BETWEEN PARALLEL SANITARY SEWER AND POTABLE WATER LINES. 4' MINIMUM (OD TO OD) HORIZONTAL CLEARANCE SHALL BE MAINTAINED BETWEEN PARALLEL STORM DRAIN AND POTABLE WATER LINES.
5. REFER TO STORM DRAINAGE SHEETS FOR PROPOSED STORM DRAINAGE SYSTEMS.
6. REFER TO SANITARY SEWER SHEETS FOR PROPOSED SEWER LATERALS.
7. PROPOSED ELECTRICAL CONDUIT NOT SHOWN FOR CLARITY. REFER TO ELECTRICAL PLANS. CONTRACTOR RESPONSIBLE FOR ALL COORDINATION TO AVOID CONFLICTS WITH THE PROPOSED POTABLE WATER SYSTEMS.
8. VIADUCT CONTRACTOR REMOVED PORTIONS OF THE OLD VIADUCT REINFORCED CONCRETE FOUNDATIONS TO A DEPTH OF A FEW FEET BELOW THE EXISTING GROUND SURFACE. PARC CONTRACTOR SHALL BE RESPONSIBLE FOR VERIFYING EXISTING CONDITIONS AND REMOVING ANY ADDITIONAL PORTIONS OF THE FOUNDATIONS THAT CONFLICT WITH THE PROPOSED PARC IMPROVEMENTS.

LINE TABLE

LINE #	LENGTH	BEARING
L1	4.23'	S69° 51' 27"W
L2	4.23'	S69° 51' 27"W
L3	15.77'	S69° 51' 27"W
L4	20.93'	N20° 08' 33"W
L5	17.87'	N65° 06' 27"W
L6	15.86'	S69° 53' 33"W
L7	15.86'	S69° 53' 33"W
L8	38.85'	S24° 53' 33"W
L9	33.87'	S65° 06' 27"E
L10	19.96'	S20° 06' 27"E
L11	2.00'	S20° 06' 27"E
L12	42.24'	S24° 53' 33"W
L13	36.90'	S69° 51' 27"W
L14	12.17'	N65° 08' 33"W
L15	39.12'	N24° 51' 27"E
L16	2.00'	N72° 00' 46"W
L17	67.08'	N65° 08' 33"W
L18	29.43'	N24° 51' 27"E
L19	8.04'	N71° 41' 30"W
L20	33.25'	S69° 51' 27"W
L21	51.44'	N20° 08' 33"W
L22	20.55'	N75° 37' 39"W
L23	90.00'	S14° 22' 21"W
L24	92.51'	N75° 37' 39"W

LINE TABLE

LINE #	LENGTH	BEARING
L25	1.86'	S14° 27' 25"W
L26	92.49'	N75° 37' 39"W
L27	1.71'	S14° 22' 21"W
L28	17.39'	N59° 22' 21"E
L29	0.99'	S30° 37' 39"E
L30	9.00'	S14° 22' 21"W
L31	16.52'	S59° 22' 21"W
L32	91.48'	N75° 37' 39"W
L33	2.12'	S14° 22' 21"W
L34	98.49'	S69° 51' 27"W
L35	22.26'	S20° 08' 33"E
L36	16.00'	N24° 51' 27"E
L37	33.07'	S69° 51' 27"W
L38	95.41'	N65° 08' 33"W
L39	47.15'	S69° 51' 27"W
L40	2.50'	S14° 22' 21"W
L41	8.36'	S46° 52' 41"E
L42	5.01'	S46° 52' 40"E
L43	10.44'	N75° 37' 39"W
L44	2.00'	S14° 22' 21"W
L45	5.00'	S75° 37' 39"E
L46	60.86'	N65° 08' 33"W
L47	9.56'	N65° 08' 33"W
L48	26.00'	N75° 37' 39"W

LINE TABLE

LINE #	LENGTH	BEARING
L49	22.80'	S65° 08' 33"E
L50	8.58'	N36° 13' 15"E
L51	8.33'	N36° 13' 15"E
L53	25.00'	S14° 22' 21"W
L54	17.65'	S30° 37' 39"E
L55	30.00'	S75° 37' 39"E
L56	55.00'	N14° 22' 21"E
L57	3.00'	S75° 37' 39"E
L58	5.00'	N14° 22' 21"E
L59	42.21'	N30° 37' 39"W
L60	21.87'	N14° 22' 21"E
L63	2.26'	S14° 22' 21"W
L64	1.00'	N75° 37' 39"W
L65	79.14'	S75° 37' 39"E
L66	29.01'	S75° 37' 39"E

POINT TABLE

POINT #	NORTHING	EASTING
1	1836321.42	6493861.65
2	1836324.03	6493578.36

CURVE TABLE

CURVE #	LENGTH	RADIUS	DELTA
C1	0.34'	0.25'	78.64
C2	0.28'	0.25'	63.26

PLANS PREPARED BY:
TETRA TECH, INC.
707 WILSHIRE BLVD, 23RD FLR.
LOS ANGELES, CA 90017
PHONE: (213) 239-8866

CITY OF LOS ANGELES DEPARTMENT OF PUBLIC WORKS BUREAU OF ENGINEERING

VERT. CONTROL: BM 12-04070, 1929 (NGVD29) - 1985 ADJUSTMENT
HORIZ. CONTROL: GPS; PID AE 1704, EPOCH 1991.35

SHEET TITLE: DOMESTIC WATER PLAN SHEET 2
PROJECT: SIXTH STREET PARK, ARTS AND RIVER CONNECTIVITY IMPROVEMENTS (PARC)
ADDRESS: SIXTH STREET OVER THE LOS ANGELES RIVER

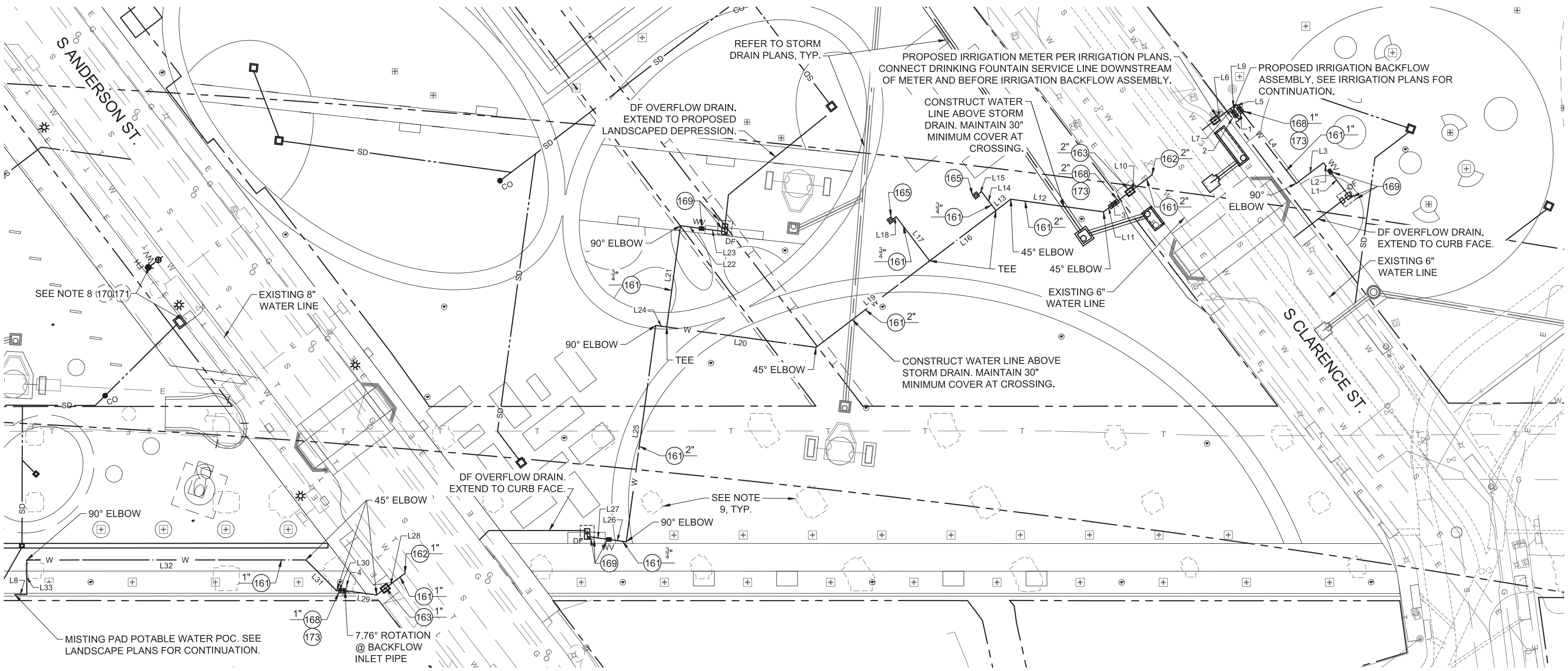
GARY LEE MOORE, P.E., ENV SP — CITY ENGINEER
DESIGN GROUP
ENGINEER: JUSTIN SMITH — LIC. NO. C-85736 — DATE: 07/11/22
DESIGNED BY: JUSTIN SMITH
DRAWN BY: MARK CARLOS
CHECKED BY: NATE SCHREINER
APPROVED BY: JASON L. FUSSEL

THIS PLAN WAS ELECTRONICALLY SIGNED AND STAMPED
REGISTERED PROFESSIONAL ENGINEER · JUSTIN T. SMITH · No. 85736 · EXP. 9-30-22 · CIVIL · STATE OF CALIFORNIA

NO. | REVISIONS | DATE | BY
INDEX NO.
BUILDING NO.

WORK ORDER NO. E700235D
FILE NO. --
DRAWING NO. C-401
SHEET 42 OF 295 SHEETS

7/8/2022 11:11:52 PM - O:\PROJECTS\IRVINE\20043\200-20043-17001\CAD\SHEETFILES\C-401_DOMESTIC WATER PLAN - TT.DWG - SMITH, JUSTIN



LEGEND:

- PROPERTY / BOUNDARY LINE
- EASEMENT BOUNDARY LINE
- S — EXISTING SANITARY SEWER
- W — EXISTING WATER LINE
- EXISTING STORM DRAIN
- G — EXISTING GAS LINE
- T — EXISTING UNDERGROUND/OVERHEAD TELECOMMUNICATIONS LINE
- O — EXISTING OIL LINE
- OHS — EXISTING OVERHEAD ELECTRICAL
- E — EXISTING UNDERGROUND ELECTRICAL
- W — PROPOSED WATER LINE
- SS — PROPOSED SANITARY SEWER LINE
- PROPOSED STORM DRAIN MAIN LINE (Ø ≥ 18")
- SD — PROPOSED STORM DRAIN LATERAL (Ø ≤ 18")

NOTES:

1. EXISTING UTILITIES ARE SHOWN FOR REFERENCE ONLY. ACTUAL LOCATIONS MAY VARY. CONTRACTOR TO VERIFY THE LOCATIONS AND ELEVATIONS OF EXISTING UTILITIES IN THE FIELD.
2. CONTRACTOR SHALL COORDINATE THE INSTALLATION OF ALL SERVICE TAPS AND WATER METERS WITH LADWP. CONTRACTOR SHALL BE RESPONSIBLE FOR THE PAYMENT OF ALL FEES.
3. THRUST BLOCKS SHALL BE CONSTRUCTED AT ALL VERTICAL AND HORIZONTAL FITTINGS AND ANGLES FOR PIPES WITHOUT RESTRAINED JOINTS PER DETAIL 5, SHEET C-604.
4. POTABLE WATER LINES SHALL BE LOCATED 1' MINIMUM (OD TO OD) ABOVE ALL CROSSING SANITARY SEWER AND STORM DRAIN LINES. 10' MINIMUM (OD TO OD) HORIZONTAL CLEARANCE SHALL BE MAINTAINED BETWEEN PARALLEL SANITARY SEWER AND POTABLE WATER LINES. 4' MINIMUM (OD TO OD) HORIZONTAL CLEARANCE SHALL BE MAINTAINED BETWEEN PARALLEL STORM DRAIN AND POTABLE WATER LINES.
5. REFER TO STORM DRAINAGE SHEETS FOR PROPOSED STORM DRAINAGE SYSTEMS.
6. REFER TO SANITARY SEWER SHEETS FOR PROPOSED SEWER LATERALS.
7. PROPOSED ELECTRICAL CONDUIT NOT SHOWN FOR CLARITY. REFER TO ELECTRICAL PLANS. CONTRACTOR RESPONSIBLE FOR ALL COORDINATION TO AVOID CONFLICTS WITH THE PROPOSED POTABLE WATER SYSTEMS.
8. EXISTING FIRE HYDRANTS TO BE RELOCATED BY LADWP. CONTRACTOR RESPONSIBLE FOR ALL COORDINATION AND PAYMENT OF ANY REQUIRED FEES.
9. VIADUCT CONTRACTOR REMOVED PORTIONS OF THE OLD VIADUCT REINFORCED CONCRETE FOUNDATIONS TO A DEPTH OF A FEW FEET BELOW THE EXISTING GROUND SURFACE. PARC CONTRACTOR SHALL BE RESPONSIBLE FOR VERIFYING EXISTING CONDITIONS AND REMOVING ANY ADDITIONAL PORTIONS OF THE FOUNDATIONS THAT CONFLICT WITH THE PROPOSED PARC IMPROVEMENTS.

LEGEND OF CONSTRUCTION NOTES

○ CONSTRUCT — □-○ REMOVE & RECONSTRUCT — ◌ WORK BY OTHERS

NO.	CONSTRUCTION ITEM/NOTE	STANDARD PLAN
161	TYPE K HARD COPPER WATER LINE	DTL 1, SHT C-604
162	SERVICE TAP WITH CORP STOP AND SERVICE SADDLE	LADWP STD
163	DOMESTIC WATER METER AND BOX	LADWP STD
164	HOT TAP EXISTING WATER LINE	LADWP STD
165	IN-GROUND HOSE BOX	DTL 3, SHT C-604
166	WATER SHUT-OFF VALVE	DTL 4, SHT C-604
168	DOMESTIC REDUCED PRESSURE BACKFLOW ASSEMBLY (≤2"Ø)	DTL 7, SHT C-604
169	DRINKING FOUNTAIN, VALVE, DRAINAGE SUMP & OVERFLOW	DTL 3, SHT C-605
170	GATE VALVE	LADWP STD
171	FIRE HYDRANT	LADWP STD
173	BACKFLOW ENCLOSURE	DTL 8, SHT C-604

LINE TABLE

LINE #	LENGTH	BEARING
L1	10.98'	S20° 11' 40"E
L2	4.03'	S20° 11' 40"E
L3	12.28'	N69° 48' 20"E
L4	33.37'	S20° 11' 40"E
L5	2.50'	S20° 11' 40"E
L6	12.80'	N69° 48' 20"E
L7	2.50'	S20° 11' 40"E
L8	4.30'	S72° 54' 22"E
L9	2.50'	S69° 48' 20"W
L10	17.28'	S69° 51' 56"W
L11	4.72'	S69° 51' 56"W
L12	33.78'	N65° 08' 04"W
L13	6.74'	S69° 51' 56"W
L14	8.50'	N20° 08' 04"W
L15	2.00'	S69° 51' 56"W
L16	30.00'	S69° 51' 56"W
L17	20.00'	N20° 08' 04"W
L18	2.00'	S69° 51' 56"W
L19	51.50'	S69° 51' 56"W
L20	54.38'	N65° 08' 04"W

LINE TABLE

LINE #	LENGTH	BEARING
L21	36.84'	N24° 51' 56"E
L22	7.68'	S65° 08' 04"E
L23	8.34'	S65° 08' 04"E
L24	3.98'	N65° 08' 04"W
L25	78.71'	S24° 51' 56"W
L26	6.32'	N65° 08' 04"W
L27	7.91'	N65° 08' 04"W
L28	12.87'	S69° 51' 27"W
L29	11.51'	N65° 08' 33"W
L30	2.07'	N72° 54' 22"W
L31	15.63'	N27° 54' 22"W
L32	100.74'	N72° 54' 22"W
L33	12.46'	S17° 05' 38"W

POINT TABLE

POINT #	NORTHING	EASTING
1	1836084.02	6494347.31
2	1836083.16	6494344.96
3	1836064.99	6494293.75
4	1836013.33	6493987.59

SCALE: 1"=20'

PLANS PREPARED BY:
TETRA TECH, INC.
707 WILSHIRE BLVD. 23RD FLR.
LOS ANGELES, CA 90017
PHONE: (213) 239-8866

CITY OF LOS ANGELES — DEPARTMENT OF PUBLIC WORKS — BUREAU OF ENGINEERING

VERT. CONTROL: BM 12-04070, 1929 (NGVD29) • 1985 ADJUSTMENT
HORIZ. CONTROL: GPS: PID AE 1704, EPOCH 1991.35

SHEET TITLE: DOMESTIC WATER PLAN SHEET 3
PROJECT: SIXTH STREET PARK, ARTS AND RIVER CONNECTIVITY IMPROVEMENTS (PARC)
ADDRESS: SIXTH STREET OVER THE LOS ANGELES RIVER

GARY LEE MOORE, P.E., ENV SP — CITY ENGINEER
DESIGN GROUP
ENGINEER: JUSTIN SMITH — LIC. NO. C-85736 — DATE: 07/11/22
DESIGNED BY: JUSTIN SMITH
DRAWN BY: MARK CARLOS
CHECKED BY: NATE SCHREINER
APPROVED BY: JASON L. FUSSEL

THIS PLAN WAS ELECTRONICALLY SIGNED AND STAMPED.
REGISTERED PROFESSIONAL ENGINEER — JUSTIN T. SMITH — No. 85736 — EXP. 9-30-22 — CIVIL — STATE OF CALIFORNIA

NO.	REVISIONS:	DATE:	BY:

INDEX NO.
BUILDING NO.

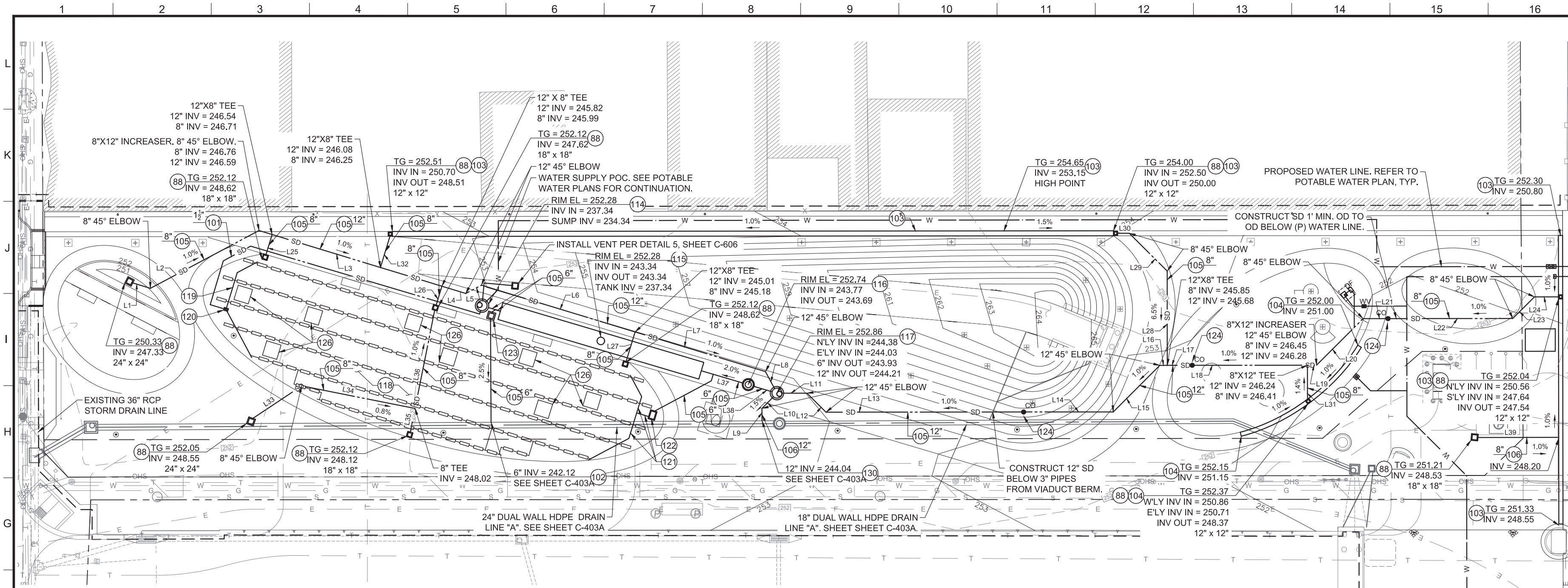
WORK ORDER NO. E700235D
FILE NO. --
DRAWING NO. C-402
SHEET 43 OF 295 SHEETS

BID SET - NOT FOR CONSTRUCTION

REVISION DATES (DESIGN STAGE ONLY)

Sheet Version 3.0

7/7/2022 11:44:07 AM - O:\PROJECTS\IRVINE\20043\200-20043-17001\CAD\SHEETFILES\C-402_DOMESTIC WATER PLAN - TT.DWG - SMITH, JUSTIN



TG=251.05; INV=248.05.
CONSTRUCT WEEP HOLE STRUCTURE SIMILAR TO DETAIL 2, SHEET C-614. MODIFY TO INCLUDE GRATED INLET SIMILAR TO DETAIL 7, SHEET C-605. INSTALL 4" Ø CAST IRON OVERFLOW PIPE AND ROUTE THROUGH EXISTING CURB FACE TO THE SOUTH.

LEGEND:

	PROPERTY / BOUNDARY LINE
	EASEMENT BOUNDARY LINE
S	EXISTING SANITARY SEWER
W	EXISTING WATER LINE
	EXISTING STORM DRAIN
G	EXISTING GAS LINE
T	EXISTING UNDERGROUND/OVERHEAD TELECOMMUNICATIONS LINE
O	EXISTING OIL LINE
OHS	EXISTING OVERHEAD ELECTRICAL
E	EXISTING UNDERGROUND ELECTRICAL
W	PROPOSED WATER LINE
SS	PROPOSED SANITARY SEWER LINE
	PROPOSED STORM DRAIN MAIN LINE (Ø ≥ 18")
SD	PROPOSED STORM DRAIN LATERAL (Ø ≤ 18")

NOTE:

1. NO DUMPING STENCIL SHALL BE PLACED ON TOP OF INLET OR TOP OF CURB AT ALL INLETS PER DETAIL 9, SHEET C-605.
2. CONTRACTOR TO FIELD VERIFY LOCATIONS AND INVERTS OF ALL EXISTING UTILITIES AND PROPOSED CONNECTIONS TO EXISTING STORM DRAIN FACILITIES BEFORE STARTING STORM DRAIN CONSTRUCTION. CONTRACTOR TO NOTIFY THE CITY OF ANY DISCREPANCIES.
3. PROPOSED ELECTRICAL CONDUIT NOT SHOWN FOR CLARITY. REFER TO ELECTRICAL PLANS. CONTRACTOR RESPONSIBLE FOR ALL COORDINATION TO AVOID CONFLICTS WITH PROPOSED STORM DRAIN SYSTEM..

LEGEND OF CONSTRUCTION NOTES

◯ CONSTRUCT

NO.	CONSTRUCTION ITEM/NOTE	STANDARD PLAN
88	PRECAST GRATE CATCH BASIN	DTL 7, SHT C-605
101	SCH 40 PVC PIPE	DTL 4, SHT C-605
102	FERNCO QWIKSEAL COUPLER OR APPROVED EQUAL	-
103	TRENCH DRAIN	DTL 10, SHT C-605
104	RADIUS TRENCH DRAIN	DTL 5, SHT C-605
105	SDR-35 PVC PIPE	DTL 4, SHT C-605
106	DUAL WALL HDPE PIPE	DTL 4, SHT C-605
114	WET WELL AND PUMP	DTL 4, SHT C-606
115	STORMWATER STORAGE TANK	DTL 4, SHT C-606
116	HYDRODYNAMIC SEPARATOR, TYPE 1	DTL 1, SHT C-606
117	DIVERSION MAINTENANCE HOLE	DTL 3, SHT C-606
118	EPIC SYSTEM	DTL 1, 2, 7, & 9, SHT C-607
119	EPIC SYSTEM INLET HEADER PIPE	DTL 3, SHT C-607
120	EPIC SYSTEM INLET STRUCTURE	DTL 4, SHT C-607
121	EPIC SYSTEM OUTLET HEADER PIPE	DTL 5, SHT C-607
122	EPIC SYSTEM OUTLET STRUCTURE	DTL 6, SHT C-607
123	PRECAST CONCRETE JUNCTION STRUCTURE W/ COVER	DTL 8, SHT C-605
124	STORM DRAIN CLEANOUT	DTL 6, SHT C-605
126	EPIC SYSTEM AT TREE LOCATIONS	DTL 8, SHT C-607
130	FABRICATED 24"X12" DUAL WALL HDPE SADDLE TEE	DTL 5, SHT C-606

LINE TABLE

LINE #	LENGTH	BEARING
L1	7.84'	S 78°09'04" E
L2	49.30'	N 56°50'56" E
L3	45.39'	S 78°09'04" E
L4	10.00'	S 78°09'04" E
L5	7.07'	N 56°50'56" E
L6	64.42'	S 78°09'04" E
L7	54.59'	S 78°09'04" E
L8	7.84'	S 33°09'04" E
L9	5.00'	N 5°24'27" W
L10	6.54'	N 39°35'33" E
L11	10.00'	N 84°50'58" E
L12	10.79'	S 50°09'02" E
L13	77.80'	N 84°50'58" E
L14	37.32'	N 84°50'58" E
L15	26.42'	N 39°50'58" E
L16	13.00'	N 84°50'58" E
L17	13.00'	N 84°50'58" E
L18	46.18'	N 84°50'58" E
L19	3.64'	N 84°50'58" E
L20	26.41'	N 39°50'58" E

LINE TABLE

LINE #	LENGTH	BEARING
L21	10.00'	N 84°50'58" E
L22	50.00'	N 84°50'58" E
L23	12.27'	N 39°50'58" E
L24	10.00'	N 84°50'58" E
L25	8.75'	N 11°50'56" E
L26	8.25'	N 11°50'56" E
L27	12.71'	N 11°50'56" E
L28	37.84'	S 5°09'02" E
L29	21.47'	S 50°09'02" E
L30	5.00'	N 84°50'58" E
L31	14.07'	S 5°09'02" E
L32	13.55'	N 11°50'56" E
L33	24.00'	N 51°11'32" E
L34	46.35'	S 83°48'28" E
L35	10.00'	N 6°11'32" E
L36	40.55'	N 6°11'32" E
L37	17.64'	N 78°32'45" W
L38	8.00'	N 78°32'45" W
L39	32.71'	N 84°49'19" E

SCALE: 1"=20'

PLANS PREPARED BY:
TETRA TECH, INC.
707 WILSHIRE BLVD, 23RD FLR.
LOS ANGELES, CA 90017
PHONE: (213) 239-8866

CITY OF LOS ANGELES DEPARTMENT OF PUBLIC WORKS BUREAU OF ENGINEERING

GARY LEE MOORE, P.E., ENV SP — CITY ENGINEER
DESIGN GROUP — DATE:
ENGINEER: JUSTIN SMITH — LIC. NO. C-85736 — 07/11/22
DESIGNED BY: JUSTIN SMITH
DRAWN BY: TYLER PARRA
CHECKED BY: NATE SCHREINER
APPROVED BY: JASON L. FUSSEL

THIS PLAN WAS ELECTRONICALLY SIGNED AND STAMPED

REGISTERED PROFESSIONAL ENGINEER — JUSTIN T. SMITH — No. 85736 — EXP: 9-30-22 — CIVIL — STATE OF CALIFORNIA

VERT. CONTROL: BM 12-04070, 1929 (NGVD29) - 1985 ADJUSTMENT
HORIZ. CONTROL: GPS; PID AE 1704, EPOCH 1991.35

SHEET TITLE: STORM DRAIN PLAN SHEET 1
PROJECT: SIXTH STREET PARK, ARTS AND RIVER CONNECTIVITY IMPROVEMENTS (PARC)
ADDRESS: SIXTH STREET OVER THE LOS ANGELES RIVER

NO.	REVISIONS:	DATE:	BY:

INDEX NO.
BUILDING NO.

ENGINEERING — CITY OF LOS ANGELES

WORK ORDER NO. E700235D
FILE NO. --
DRAWING NO. C-403
SHEET 44 OF 295 SHEETS

REVISION DATES (DESIGN STAGE ONLY)

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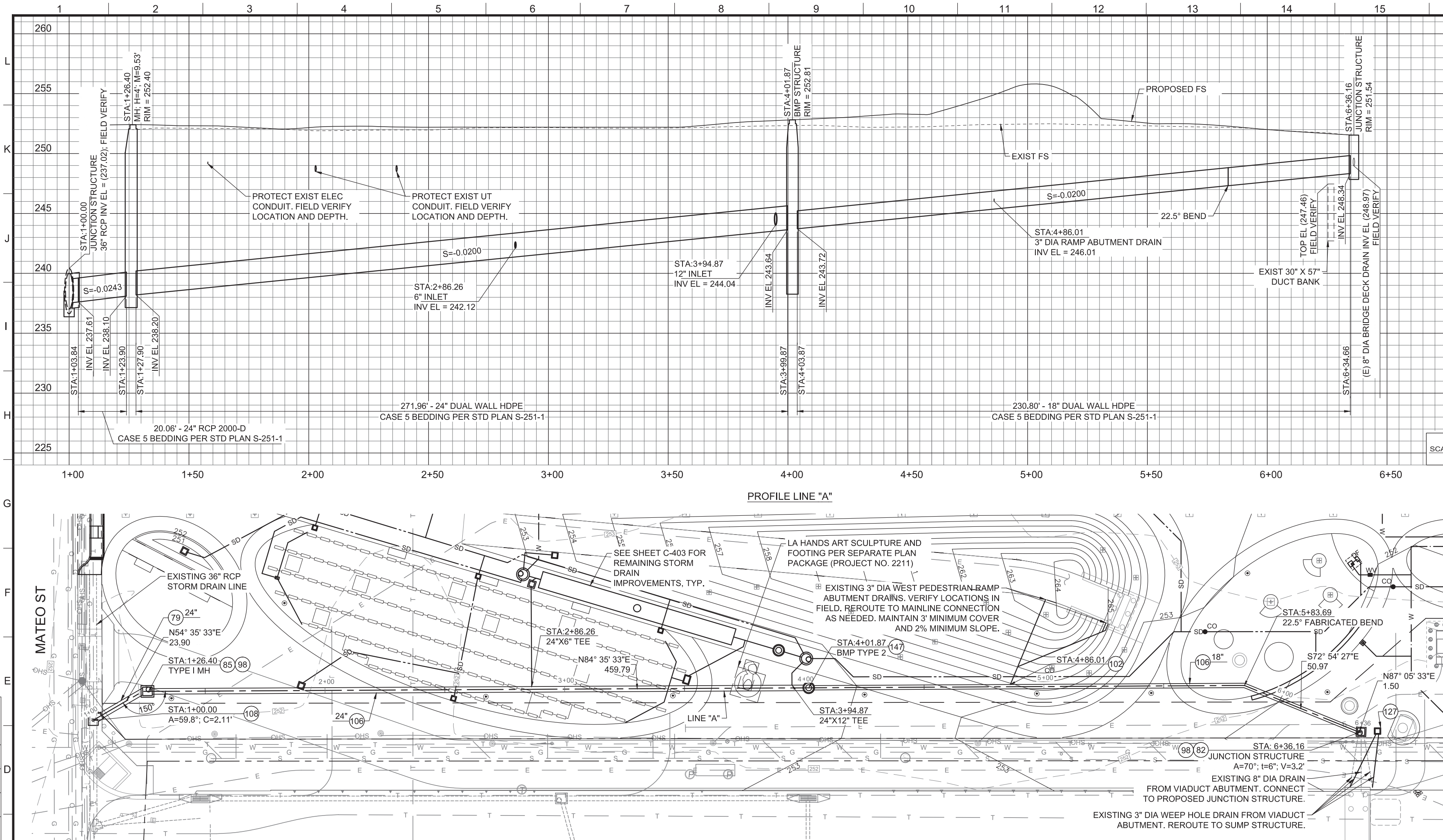

LEGEND:

- PROPERTY / BOUNDARY LINE
- EASEMENT BOUNDARY LINE
- EXISTING SANITARY SEWER
- EXISTING WATER LINE
- EXISTING STORM DRAIN
- EXISTING GAS LINE
- EXISTING UNDERGROUND/OVERHEAD TELECOMMUNICATIONS LINE
- EXISTING OIL LINE
- EXISTING OVERHEAD ELECTRICAL
- EXISTING UNDERGROUND ELECTRICAL
- PROPOSED WATER LINE
- PROPOSED SANITARY SEWER LINE
- PROPOSED STORM DRAIN MAIN LINE

NOTE:

1. NO DUMPING STENCIL SHALL BE PLACED ON TOP OF INLET OR TOP OF CURB AT ALL INLETS PER DETAIL 9, SHEET C-605.
2. CONTRACTOR TO FIELD VERIFY LOCATIONS AND INVERTS OF ALL EXISTING UTILITIES AND PROPOSED CONNECTIONS TO EXISTING STORM DRAIN FACILITIES BEFORE STARTING STORM DRAIN CONSTRUCTION. CONTRACTOR TO NOTIFY THE CITY OF ANY DISCREPANCIES.
3. PROPOSED ELECTRICAL CONDUIT NOT SHOWN FOR CLARITY. REFER TO ELECTRICAL PLANS. CONTRACTOR RESPONSIBLE FOR ALL COORDINATION TO AVOID CONFLICTS WITH PROPOSED STORM DRAIN SYSTEM.
4. LENGTHS SHOWN IN THE BEARING AND DISTANCE PLAN VIEW LABELS REPRESENT ALIGNMENT SEGMENT LENGTHS. REFER TO PROFILES FOR HORIZONTAL PIPE SEGMENT LENGTHS BETWEEN STRUCTURES.

LEGEND OF CONSTRUCTION NOTES

◯ CONSTRUCT

NO.	CONSTRUCTION ITEM/NOTE	STANDARD PLAN
79	REINFORCED CONCRETE PIPE (RCP)	S-241-0, S-251-1
82	JUNCTION STRUCTURE (J.S.)	S-300-1
85	STORM DRAIN MAINTENANCE HOLE	S-381-0
98	MONOLITHIC CONNECTION	SPPWC 308-3
102	FERNCO QWIKSEAL COUPLER OR APPROVED EQUAL	-
106	DUAL WALL HDPE PIPE	S-251-1
108	JUNCTION STRUCTURE	SPPWC 331-3
127	WEEP DRAIN DRAINAGE SUMP STRUCTURE	DTL 2, SHT C-614
147	HYDRODYNAMIC SEPARATOR, TYPE 2	DTL 1, SHT C-14

SCALE: 1"=20'

PLANS PREPARED BY:
TETRA TECH, INC.
707 WILSHIRE BLVD, 23RD FLR.
LOS ANGELES, CA 90017
PHONE: (213) 239-8866

CITY OF LOS ANGELES — DEPARTMENT OF PUBLIC WORKS — BUREAU OF ENGINEERING

VERT. CONTROL: BM 12-04070, 1929 (NGVD29) • 1985 ADJUSTMENT
HORIZ. CONTROL: GPS; PID AE 1704, EPOCH 1991.35

SHEET TITLE: STORM DRAIN PLAN & PROFILE SHEET 2
PROJECT: SIXTH STREET PARK, ARTS AND RIVER CONNECTIVITY IMPROVEMENTS (PARC)
ADDRESS: SIXTH STREET OVER THE LOS ANGELES RIVER

GARY LEE MOORE, P.E., ENV SP — CITY ENGINEER
DESIGN GROUP — DATE:
ENGINEER: JUSTIN SMITH — LIC. NO. C-85736 — 07/11/22
DESIGNED BY: JUSTIN SMITH
DRAWN BY: JUSTIN SMITH
CHECKED BY: AARON YONKER
APPROVED BY: JASON L. FUSSEL

THIS PLAN WAS ELECTRONICALLY SIGNED AND STAMPED.
REGISTERED PROFESSIONAL ENGINEER — JUSTIN T. SMITH — No. 85736 — EXP. 9-30-22 — CIVIL — STATE OF CALIFORNIA

NO. REVISIONS: | DATE: | BY:
INDEX NO.
BUILDING NO.

WORK ORDER NO. E700235D
FILE NO. --
DRAWING NO. C-403A
SHEET 45 OF 295 SHEETS

REVISION DATES (DESIGN STAGE ONLY)

THE CITY OF LOS ANGELES OR ITS OFFICERS OR AGENTS SHALL NOT BE RESPONSIBLE FOR THE ACCURACY OR COMPLETENESS OF ELECTRONIC COPIES OF THIS PLAN SHEET.

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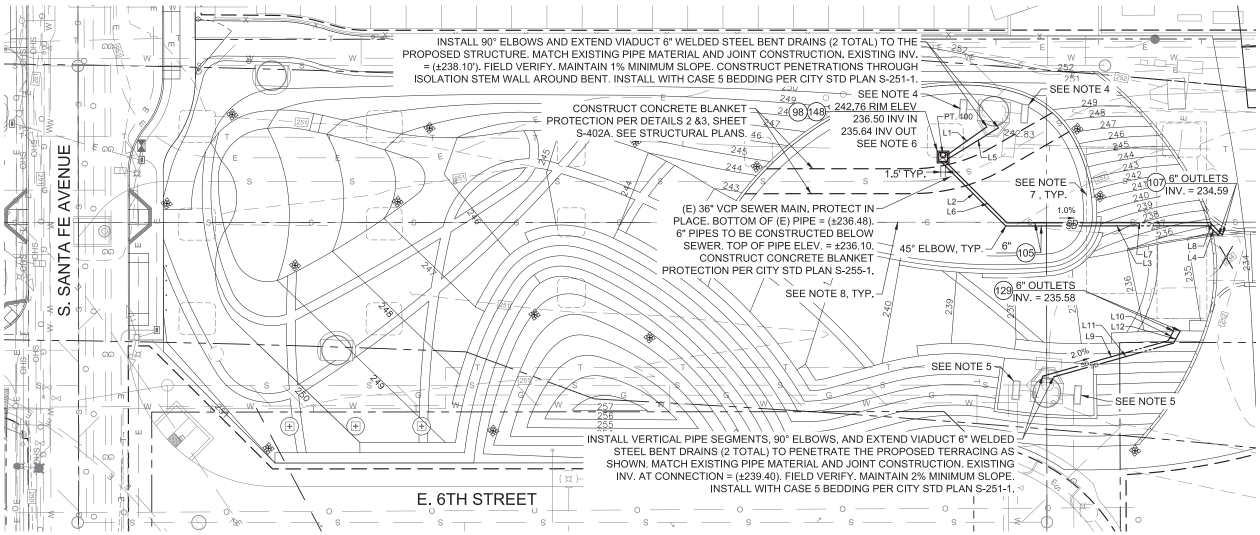

LINE TABLE

LINE #	LENGTH	BEARING
L1	16.44'	N49° 34' 58"E
L2	31.24'	S50° 11' 52"E
L3	69.18'	N84° 48' 08"E
L4	4.70'	S50° 11' 52"E
L5	20.42'	N53° 20' 41"E
L6	29.74'	S50° 11' 52"E
L7	69.18'	N84° 48' 08"E
L8	6.00'	S50° 11' 52"E
L9	44.42'	N69° 09' 45"E
L10	3.85'	N24° 09' 45"E
L11	42.45'	N69° 09' 45"E
L12	4.79'	N24° 09' 45"E

POINT TABLE

POINT #	NORTHING	EASTING
100	1836495.03	6492120.63

SCALE: 1"=20'

LEGEND:

- PROPERTY / BOUNDARY LINE
- EASEMENT BOUNDARY LINE
- EXISTING SANITARY SEWER
- EXISTING WATER LINE
- EXISTING STORM DRAIN
- EXISTING GAS LINE
- EXISTING UNDERGROUND/OVERHEAD TELECOMMUNICATIONS LINE
- EXISTING OIL LINE
- EXISTING OVERHEAD ELECTRICAL
- EXISTING UNDERGROUND ELECTRICAL
- PROPOSED WATER LINE
- PROPOSED SANITARY SEWER LINE
- PROPOSED STORM DRAIN MAIN LINE (Ø ≥ 18")
- PROPOSED STORM DRAIN LATERAL (Ø ≤ 18")

LEGEND OF CONSTRUCTION NOTES

◯ CONSTRUCT

NO.	CONSTRUCTION ITEM/NOTE	STANDARD PLAN
98	MONOLITHIC CONNECTION	SPPWC 308-3
105	SDR-35 PVC PIPE	DTL 4, SHT C-605
107	PIPE PENETRATION @ SLOUGH WALL	DTL 8, SHT C-612
129	PIPE PENETRATION @ TERRACE	DTL 1, SHT C-605
148	MODIFIED PRECAST CONCRETE CATCH BASIN (NO INLET)	S-361-0

NOTE:

1. NO DUMPING STENCIL SHALL BE PLACED ON TOP OF INLET OR TOP OF CURB AT ALL INLETS PER DETAIL 9, SHEET C-605.
2. CONTRACTOR TO FIELD VERIFY LOCATIONS AND INVERTS OF ALL EXISTING UTILITIES AND PROPOSED CONNECTIONS TO EXISTING STORM DRAIN FACILITIES BEFORE STARTING STORM DRAIN CONSTRUCTION. CONTRACTOR TO NOTIFY THE CITY OF ANY DISCREPANCIES.
3. PROPOSED ELECTRICAL CONDUIT NOT SHOWN FOR CLARITY. REFER TO ELECTRICAL PLANS. CONTRACTOR RESPONSIBLE FOR ALL COORDINATION TO AVOID CONFLICTS WITH PROPOSED STORM DRAIN SYSTEM.
4. INSTALL 4" SDR-35 PIPE TO DRAIN EXISTING VIADUCT ARCH LIGHT. ARCH LIGHT TO BE ADJUSTED TO IN-GRADE BY PARC CONTRACTOR PER DETAIL 8, SHEET C-600. PIPING TO BE FIELD ROUTED AND CONNECTED TO THE PROPOSED BENT DRAINAGE SYSTEM. CONTRACTOR SHALL SUBMIT LAYOUTS FOR APPROVAL.
5. INSTALL 4" SDR-35 PIPE TO DRAIN EXISTING VIADUCT ARCH LIGHT. ARCH LIGHT TO BE ADJUSTED TO IN-GRADE BY PARC CONTRACTOR PER DETAIL 8, SHEET C-600. PIPING TO BE FIELD ROUTED THROUGH TERRACING SIMILAR TO DETAIL 1, SHEET C-605. CONTRACTOR SHALL SUBMIT LAYOUTS FOR APPROVAL.
6. TOP OF CATCH BASIN SHALL BE POURED INTEGRAL WITH THE SURROUNDING PAVEMENT.
7. VIADUCT CONTRACTOR REMOVED PORTIONS OF THE OLD VIADUCT REINFORCED CONCRETE FOUNDATIONS TO A DEPTH OF A FEW FEET BELOW THE EXISTING GROUND SURFACE. PARC CONTRACTOR SHALL BE RESPONSIBLE FOR VERIFYING EXISTING CONDITIONS AND REMOVING ANY ADDITIONAL PORTIONS OF THE FOUNDATIONS THAT CONFLICT WITH THE PROPOSED PARC IMPROVEMENTS.
8. UTILITIES NOTED AS ABANDONED ON THE DEMOLITION PLANS SHALL BE REMOVED TO THE EXTENTS NECESSARY TO ALLOW FOR THE CONSTRUCTION OF THE PROPOSED IMPROVEMENTS. PORTIONS NOT IN CONFLICT WITH THE PROPOSED IMPROVEMENTS MAY BE LEFT IN PLACE. CONTRACTOR TO COORDINATE REMOVALS WITH UTILITY OWNERS.

PLANS PREPARED BY:
TETRA TECH, INC.
707 WILSHIRE BLVD. 23RD FLR.
LOS ANGELES, CA 90017
PHONE: (213) 239-8866

CITY OF LOS ANGELES — DEPARTMENT OF PUBLIC WORKS — BUREAU OF ENGINEERING

VERT. CONTROL: BM 12-04070, 1929 (NGVD29) + 1985 ADJUSTMENT
HORIZ. CONTROL: GPS; PID AE 1704, EPOCH 1991.35

SHEET TITLE: STORM DRAIN PLAN SHEET 3
PROJECT: SIXTH STREET PARK, ARTS AND RIVER CONNECTIVITY IMPROVEMENTS (PARC)
ADDRESS: SIXTH STREET OVER THE LOS ANGELES RIVER

GARY LEE MOORE, P.E., ENV SP — CITY ENGINEER
DESIGN GROUP — DATE:
ENGINEER: JUSTIN SMITH — LIC. NO. C-85736 — 07/11/22
DESIGNED BY: JUSTIN SMITH
DRAWN BY: DAVID LOPEZ
CHECKED BY: NATE SCHREINER
APPROVED BY: JASON L. FUSSEL

THIS PLAN WAS ELECTRONICALLY SIGNED AND STAMPED.
REGISTERED PROFESSIONAL ENGINEER — JUSTIN T. SMITH — No. 85736 — EXP. 9-30-22 — CIVIL — STATE OF CALIFORNIA

NO. | REVISIONS | DATE | BY

INDEX NO.
BUILDING NO.

WORK ORDER NO. E700235D
FILE NO. --
DRAWING NO. C-404
SHEET 46 OF 295 SHEETS

REVISION DATES (DESIGN STAGE ONLY)

THE CITY OF LOS ANGELES OR ITS OFFICERS OR AGENTS SHALL NOT BE RESPONSIBLE FOR THE ACCURACY OR COMPLETENESS OF ELECTRONIC COPIES OF THIS PLAN SHEET.

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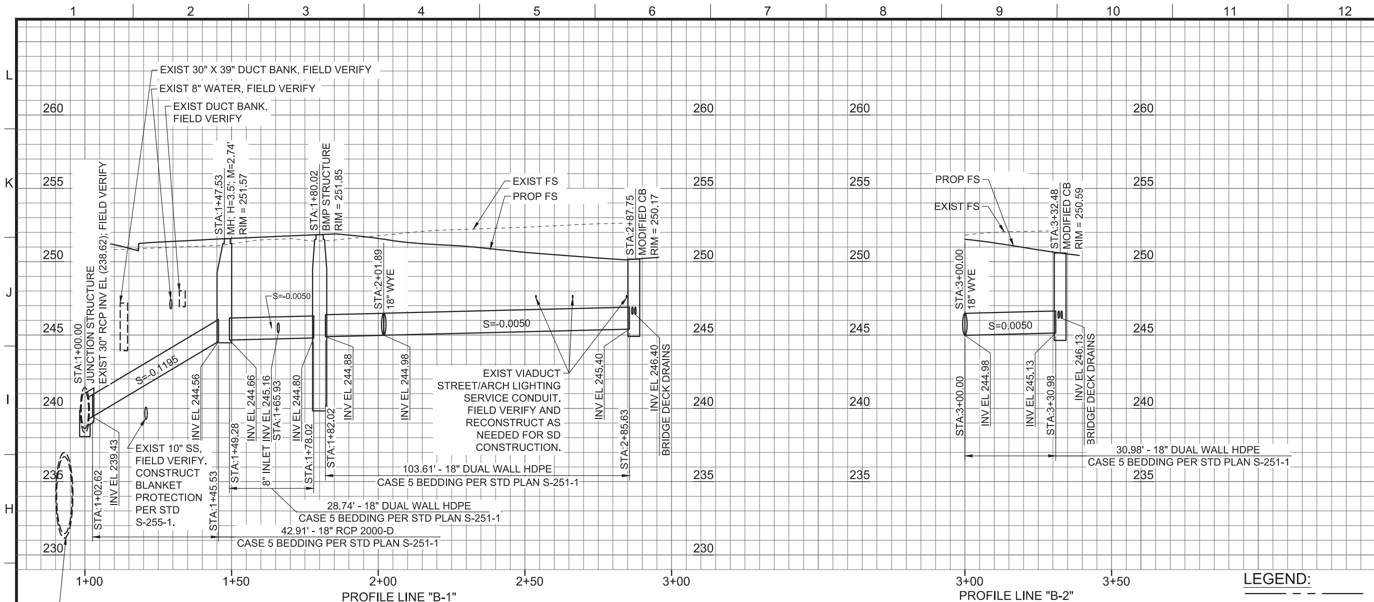

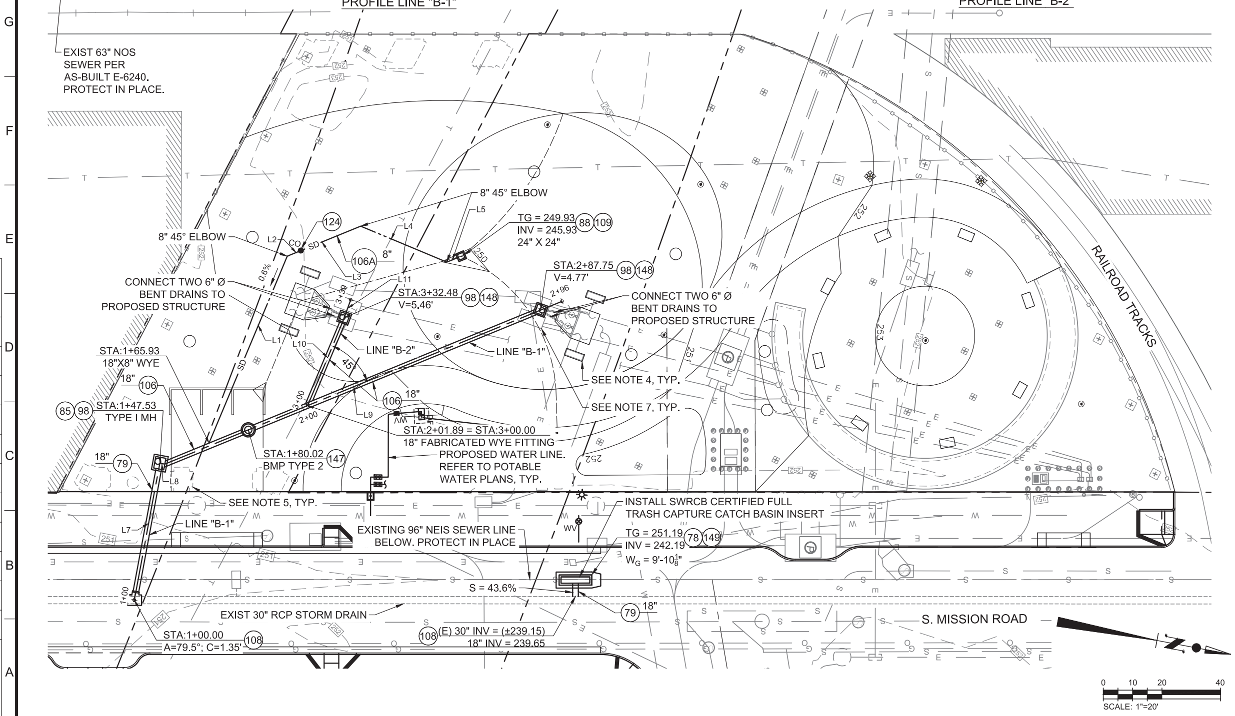

NOTE:

1. NO DUMPING STENCIL SHALL BE PLACED ON TOP OF INLET OR TOP OF CURB AT ALL INLETS PER DETAIL 9, SHEET C-605.
2. CONTRACTOR TO FIELD VERIFY LOCATIONS AND INVERTS OF ALL EXISTING UTILITIES AND PROPOSED CONNECTIONS TO EXISTING STORM DRAIN FACILITIES BEFORE STARTING STORM DRAIN CONSTRUCTION. CONTRACTOR TO NOTIFY THE CITY OF ANY DISCREPANCIES.
3. PROPOSED ELECTRICAL CONDUIT NOT SHOWN FOR CLARITY. REFER TO ELECTRICAL PLANS. CONTRACTOR RESPONSIBLE FOR ALL COORDINATION TO AVOID CONFLICTS WITH PROPOSED STORM DRAIN SYSTEM.
4. INSTALL 4" SDR-35 PIPE TO DRAIN EXISTING VIADUCT ARCH LIGHT. ARCH LIGHT TO BE ADJUSTED TO IN-GRADE BY PARC CONTRACTOR PER DETAIL 8, SHEET C-600. PIPING TO BE FIELD ROUTED AND CONNECTED TO THE PROPOSED BENT DRAINAGE SYSTEM. CONTRACTOR SHALL SUBMIT LAYOUTS FOR APPROVAL.
5. VIADUCT CONTRACTOR REMOVED PORTIONS OF THE OLD VIADUCT REINFORCED CONCRETE FOUNDATIONS TO A DEPTH OF A FEW FEET BELOW THE EXISTING GROUND SURFACE. PARC CONTRACTOR SHALL BE RESPONSIBLE FOR VERIFYING EXISTING CONDITIONS AND REMOVING ANY ADDITIONAL PORTIONS OF THE FOUNDATIONS THAT CONFLICT WITH THE PROPOSED PARC IMPROVEMENTS.
6. LENGTHS SHOWN IN THE BEARING AND DISTANCE PLAN VIEW LABELS REPRESENT ALIGNMENT SEGMENT LENGTHS. REFER TO PROFILES FOR HORIZONTAL PIPE SEGMENT LENGTHS BETWEEN STRUCTURES.
7. VERIFY EXISTING ELECTRICAL FIELD CONDITIONS. REROUTE/RELOCATE EXISTING CONDUIT AND PULL BOXES AS NEEDED TO ALLOW FOR STORM DRAIN CONSTRUCTION.

LEGEND:

Symbol	Description
—— – ——	PROPERTY / BOUNDARY LINE
— — —	EASEMENT BOUNDARY LINE
—— S ——	EXISTING SANITARY SEWER
—— W ——	EXISTING WATER LINE
======	EXISTING STORM DRAIN
—— G ——	EXISTING GAS LINE
—— T ——	EXISTING UNDERGROUND/OVERHEAD TELECOMMUNICATIONS LINE
—— O ——	EXISTING OIL LINE
—— OHS ——	EXISTING OVERHEAD ELECTRICAL
—— E ——	EXISTING UNDERGROUND ELECTRICAL
—W—	PROPOSED WATER LINE
—SS—	PROPOSED SANITARY SEWER LINE
══════	PROPOSED STORM DRAIN MAIN LINE (Ø ≥ 18")
—SD—	PROPOSED STORM DRAIN LATERAL (Ø ≤ 18")
⊞	PROPOSED TREE. SEE LANDSCAPE PLANS.

LINE TABLE

LINE #	LENGTH	BEARING
L1	69.12'	N 77°50'42" W
L2	5.00'	N 32°50'42" W
L3	22.03'	N 32°50'42" W
L4	31.83'	N 12°09'18" E
L5	4.30'	N 32°50'42" W
L7	47.53'	S 89°59'17" W
L8	1.75'	N 0°00'00" W
L9	146.35'	N 32°50'42" W
L10	30.98'	N 77°50'42" W
L11	8.00'	N 80°30'11" W

LEGEND OF CONSTRUCTION NOTES

◯ CONSTRUCT

NO.	CONSTRUCTION ITEM/NOTE	STANDARD PLAN
78	ALLEY GRATING BASIN (AGB)	SPPWC 304-4
79	REINFORCED CONCRETE PIPE (RCP)	S-241-0, S-251-1
85	STORM DRAIN MAINTENANCE HOLE	S-381-0
88	PRECAST GRATE CATCH BASIN	DTL 7, SHT C-605
98	MONOLITHIC CONNECTION	SPPWC 308-3
105	SDR-35 PVC PIPE	DTL 4, SHT C-605
106	DUAL WALL HDPE PIPE	S-251-1
106A	DUAL WALL HDPE PIPE	DTL 4, SHT C-605
108	JUNCTION STRUCTURE	SPPWC 331-3
109	CATCH BASIN FILTRATION INSERT	DTL 7, SHT C-605
124	STORM DRAIN CLEANOUT	DTL 6, SHT C-605
147	HYDRODYNAMIC SEPARATOR, TYPE 2	DTL 1, SHT C-14
148	MODIFIED PRECAST CONCRETE CATCH BASIN (NO INLET)	S-361-0
149	ALLEY GRATING BASIN GUTTER TRANSITION	S-355-0

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REVISION DATES (DESIGN STAGE ONLY)

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PLANS PREPARED BY:
TETRA TECH, INC.
707 WILSHIRE BLVD. 23RD FLR.
LOS ANGELES, CA 90017
PHONE: (213) 239-8866

CITY OF LOS ANGELES — DEPARTMENT OF PUBLIC WORKS — BUREAU OF ENGINEERING

VERT. CONTROL: BM 12-04070, 1929 (NGVD29) - 1985 ADJUSTMENT
HORIZ. CONTROL: GPS; PID AE 1704, EPOCH 1991.35

SHEET TITLE: STORM DRAIN PLAN & PROFILE SHEET 4
PROJECT: SIXTH STREET PARK, ARTS AND RIVER CONNECTIVITY IMPROVEMENTS (PARC)
ADDRESS: SIXTH STREET OVER THE LOS ANGELES RIVER

GARY LEE MOORE, P.E., ENV SP — CITY ENGINEER
DESIGN GROUP
ENGINEER: JUSTIN SMITH — LIC. NO. C-85736 — DATE: 07/11/22
DESIGNED BY: JUSTIN SMITH
DRAWN BY: TYLER PARRA
CHECKED BY: NATE SCHREINER
APPROVED BY: JASON L. FUSSEL

THIS PLAN WAS ELECTRONICALLY SIGNED AND STAMPED

REGISTERED PROFESSIONAL ENGINEER — JUSTIN T. SMITH — No. 85736 — EXP. 9-30-22 — CIVIL — STATE OF CALIFORNIA

NO. | REVISIONS | DATE | BY

INDEX NO.

BUILDING NO.

ENGINEERING — CITY OF LOS ANGELES

WORK ORDER NO. E700235D
FILE NO. --
DRAWING NO. C-405
SHEET 47 OF 295 SHEETS

7/10/2022 12:49:02 PM - O:\PROJECTS\IRVINE\20043\200-20043-17001\CAD\SHEETFILES\C-405_STORM DRAIN PLAN AND PROFILE - TT.DWG - SMITH, JUSTIN

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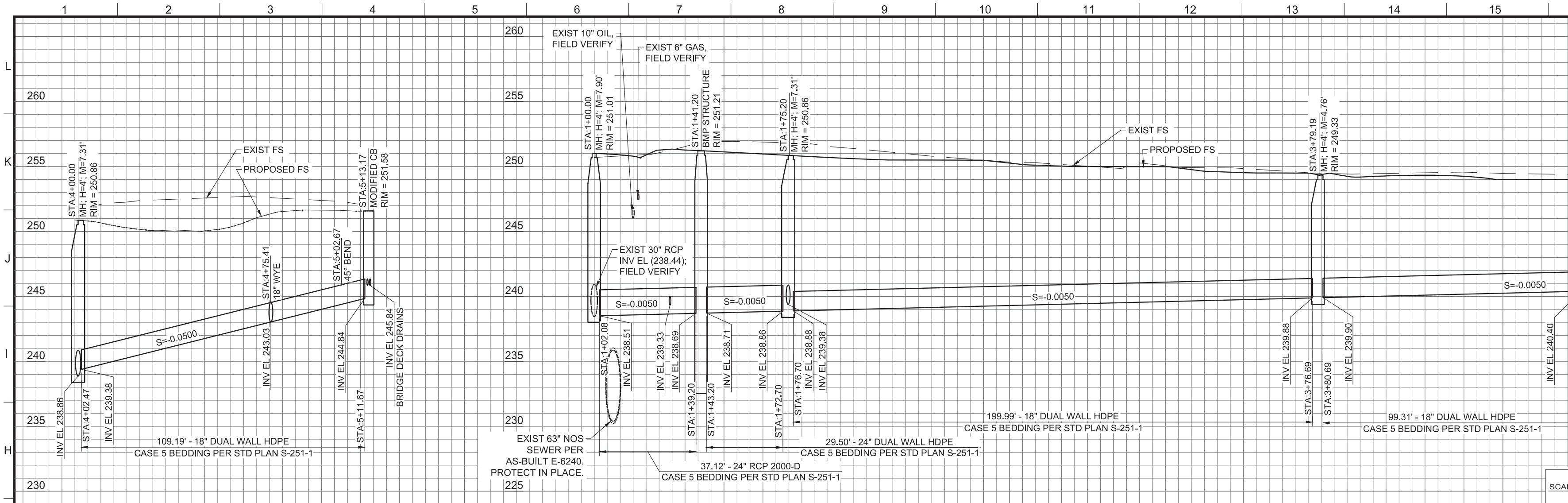

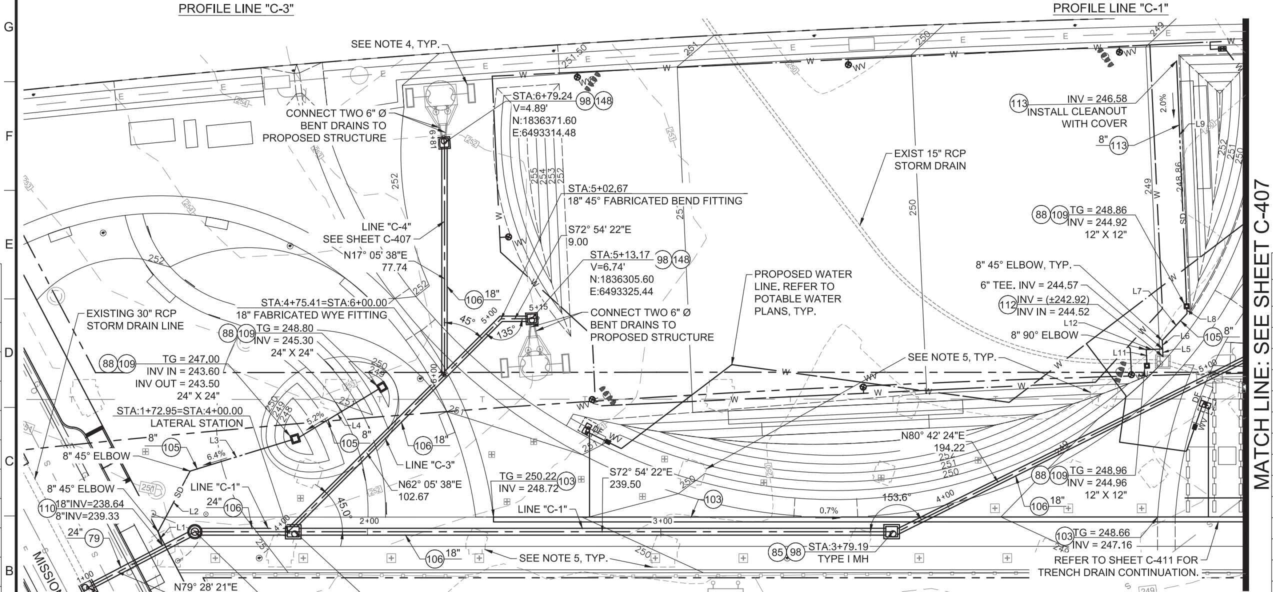

LEGEND:

- PROPERTY / BOUNDARY LINE
- EASEMENT BOUNDARY LINE
- EXISTING SANITARY SEWER
- EXISTING WATER LINE
- EXISTING STORM DRAIN
- EXISTING GAS LINE
- EXISTING UNDERGROUND/OVERHEAD TELECOMMUNICATIONS LINE
- EXISTING OIL LINE
- EXISTING OVERHEAD ELECTRICAL
- EXISTING UNDERGROUND ELECTRICAL
- PROPOSED WATER LINE
- PROPOSED SANITARY SEWER LINE
- PROPOSED STORM DRAIN MAIN LINE (Ø ≥ 18")
- PROPOSED STORM DRAIN LATERAL (Ø ≤ 18")
- PROPOSED TREE, SEE LANDSCAPE PLANS.

LINE TABLE

LINE #	LENGTH	BEARING
L1	5.00'	N 0°00'00" W
L2	23.29'	N 45°00'00" E
L3	36.50'	N 90°00'00" E
L4	32.49'	N 75°52'45" E
L5	2.61'	N 14°10'06" E
L6	2.90'	N 14°43'03" E
L7	12.46'	N 59°43'03" E
L8	2.00'	N 14°43'03" E
L9	83.17'	N 14°43'45" E
L11	5.00'	N 14°43'03" E
L12	5.59'	S 75°16'57" E

LEGEND OF CONSTRUCTION NOTES

○ CONSTRUCT

NO.	CONSTRUCTION ITEM/NOTE	STANDARD PLAN
79	REINFORCED CONCRETE PIPE (RCP)	S-241-0, S-251-1
85	STORM DRAIN MAINTENANCE HOLE	S-381-0
88	PRECAST GRATE CATCH BASIN	DTL 7, SHT C-605
98	MONOLITHIC CONNECTION	SPPWC 308-3
103	TRENCH DRAIN	DTL 10, SHT C-605
105	SDR-35 PVC PIPE	DTL 4, SHT C-605
106	DUAL WALL HDPE PIPE	S-251-1
109	CATCH BASIN FILTRATION INSERT	DTL 7, SHT C-605
110	JUNCTION STRUCTURE	SPPWC 332-2
112	PIPE CONNECTION TO STRUCTURE	SPPWC 335-2
113	PERFORATED DUAL WALL HDPE PIPE AND DRAINAGE TRENCH	DTL 1, SHT C-601
116	HYDRODYNAMIC SEPARATOR, TYPE 1	DTL 1, SHT C-606
148	MODIFIED PRECAST CONCRETE CATCH BASIN (NO INLET)	S-361-0

NOTE:

1. NO DUMPING STENCIL SHALL BE PLACED ON TOP OF INLET OR TOP OF CURB AT ALL INLETS PER DETAIL 9, SHEET C-605.
2. CONTRACTOR TO FIELD VERIFY LOCATIONS AND INVERTS OF ALL EXISTING UTILITIES AND PROPOSED CONNECTIONS TO EXISTING STORM DRAIN FACILITIES BEFORE STARTING STORM DRAIN CONSTRUCTION. CONTRACTOR TO NOTIFY THE CITY OF ANY DISCREPANCIES.
3. PROPOSED ELECTRICAL CONDUIT NOT SHOWN FOR CLARITY. REFER TO ELECTRICAL PLANS. CONTRACTOR RESPONSIBLE FOR ALL COORDINATION TO AVOID CONFLICTS WITH PROPOSED STORM DRAIN SYSTEM.
4. INSTALL 4" SDR-35 PIPE TO DRAIN EXISTING VIADUCT ARCH LIGHT. ARCH LIGHT TO BE ADJUSTED TO IN-GRADE BY PARC CONTRACTOR PER DETAIL 8, SHEET C-600. PIPING TO BE FIELD ROUTED AND CONNECTED TO THE PROPOSED BENT DRAINAGE SYSTEM. CONTRACTOR SHALL SUBMIT LAYOUTS FOR APPROVAL.
5. VIADUCT CONTRACTOR REMOVED PORTIONS OF THE OLD VIADUCT REINFORCED CONCRETE FOUNDATIONS TO A DEPTH OF A FEW FEET BELOW THE EXISTING GROUND SURFACE. PARC CONTRACTOR SHALL BE RESPONSIBLE FOR VERIFYING EXISTING CONDITIONS AND REMOVING ANY ADDITIONAL PORTIONS OF THE FOUNDATIONS THAT CONFLICT WITH THE PROPOSED PARC IMPROVEMENTS.
6. LENGTHS SHOWN IN THE BEARING AND DISTANCE PLAN VIEW LABELS REPRESENT ALIGNMENT SEGMENT LENGTHS. REFER TO PROFILES FOR HORIZONTAL PIPE SEGMENT LENGTHS BETWEEN STRUCTURES.

PLANS PREPARED BY:
TETRA TECH, INC.
707 WILSHIRE BLVD, 23RD FLR.
LOS ANGELES, CA 90017
PHONE: (213) 239-8866

CITY OF LOS ANGELES — DEPARTMENT OF PUBLIC WORKS — BUREAU OF ENGINEERING

GARY LEE MOORE, P.E., ENV SP — CITY ENGINEER
DESIGN GROUP
ENGINEER: JUSTIN SMITH — LIC. NO.: C-85736 — DATE: 07/11/22
DESIGNED BY: JUSTIN SMITH
DRAWN BY: TYLER PARRA
CHECKED BY: NATE SCHREINER
APPROVED BY: JASON L. FUSSEL

THIS PLAN WAS ELECTRONICALLY SIGNED AND STAMPED.
REGISTERED PROFESSIONAL ENGINEER — JUSTIN T. SMITH — No. 85736 — EXP. 9-30-22 — CIVIL — STATE OF CALIFORNIA

NO. | REVISIONS: | DATE: | BY:

VERT. CONTROL: BM 12-04070, 1929 (NGVD29) + 1985 ADJUSTMENT
HORIZ. CONTROL: GPS; PID AE 1704, EPOCH 1991.35
SHEET TITLE: STORM DRAIN PLAN & PROFILE SHEET 5
PROJECT: SIXTH STREET PARK, ARTS AND RIVER CONNECTIVITY IMPROVEMENTS (PARC)
ADDRESS: SIXTH STREET OVER THE LOS ANGELES RIVER

INDEX NO.
BUILDING NO.
WORK ORDER NO. E700235D
FILE NO. --
DRAWING NO. C-406
SHEET 48 OF 295 SHEETS

BID SET - NOT FOR CONSTRUCTION

REVISION DATES (DESIGN STAGE ONLY)

Sheet Version 3.0

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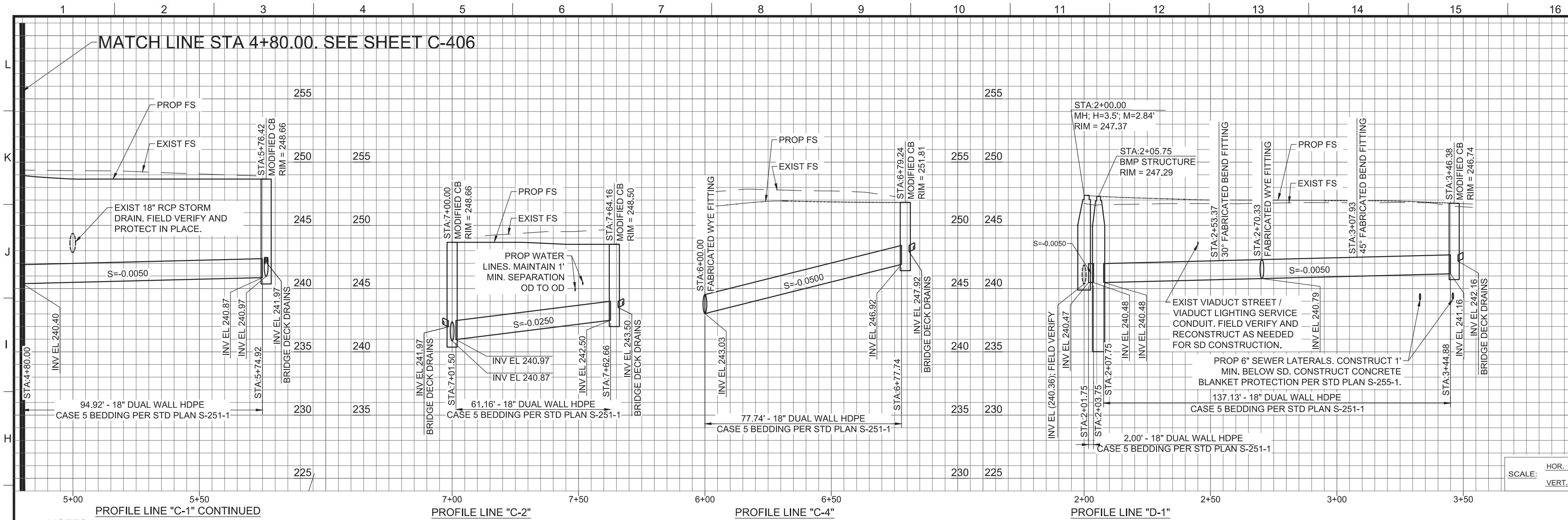
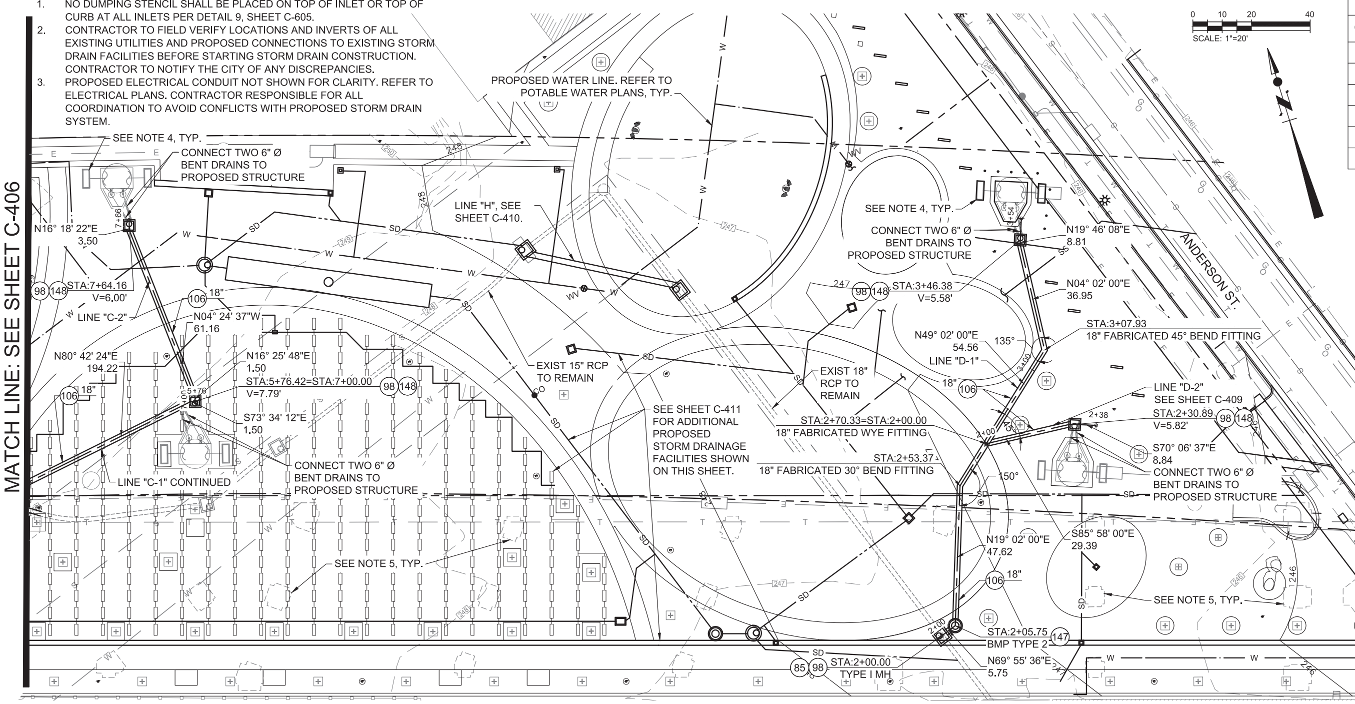
MATCH LINE STA 4+80.00. SEE SHEET C-406



NOTES:

1. NO DUMPING STENCIL SHALL BE PLACED ON TOP OF INLET OR TOP OF CURB AT ALL INLETS PER DETAIL 9, SHEET C-605.
2. CONTRACTOR TO FIELD VERIFY LOCATIONS AND INVERTS OF ALL EXISTING UTILITIES AND PROPOSED CONNECTIONS TO EXISTING STORM DRAIN FACILITIES BEFORE STARTING STORM DRAIN CONSTRUCTION. CONTRACTOR TO NOTIFY THE CITY OF ANY DISCREPANCIES.
3. PROPOSED ELECTRICAL CONDUIT NOT SHOWN FOR CLARITY. REFER TO ELECTRICAL PLANS. CONTRACTOR RESPONSIBLE FOR ALL COORDINATION TO AVOID CONFLICTS WITH PROPOSED STORM DRAIN SYSTEM.



LEGEND OF CONSTRUCTION NOTES		
○ CONSTRUCT		
NO.	CONSTRUCTION ITEM/NOTE	STANDARD PLAN
85	STORM DRAIN MAINTENANCE HOLE	S-381-0
98	MONOLITHIC CONNECTION	SPPWC 308-3
106	DUAL WALL HDPE PIPE	S-251-1
147	HYDRODYNAMIC SEPARATOR, TYPE 2	DTL 1, SHT C-14
148	MODIFIED PRECAST CONCRETE CATCH BASIN (NO INLET)	S-361-0

LEGEND:

- PROPERTY / BOUNDARY LINE
- EASEMENT BOUNDARY LINE
- EXISTING SANITARY SEWER
- EXISTING WATER LINE
- EXISTING STORM DRAIN
- EXISTING GAS LINE
- EXISTING UNDERGROUND/OVERHEAD TELECOMMUNICATIONS LINE
- EXISTING OIL LINE
- EXISTING OVERHEAD ELECTRICAL
- EXISTING UNDERGROUND ELECTRICAL
- PROPOSED WATER LINE
- PROPOSED SANITARY SEWER LINE
- PROPOSED STORM DRAIN MAIN LINE (Ø ≥ 18")
- PROPOSED STORM DRAIN LATERAL (Ø ≤ 18")
- PROPOSED TREE. SEE LANDSCAPE PLANS.

NOTES (CONTINUED):

4. INSTALL 4" SDR-35 PIPE TO DRAIN EXISTING VIADUCT ARCH LIGHT. ARCH LIGHT TO BE ADJUSTED TO IN-GRADE BY PARC CONTRACTOR PER DETAIL 8, SHEET C-600. PIPING TO BE FIELD ROUTED AND CONNECTED TO THE PROPOSED BENT DRAINAGE SYSTEM. CONTRACTOR SHALL SUBMIT LAYOUTS FOR APPROVAL.
5. VIADUCT CONTRACTOR REMOVED PORTIONS OF THE OLD VIADUCT REINFORCED CONCRETE FOUNDATIONS TO A DEPTH OF A FEW FEET BELOW THE EXISTING GROUND SURFACE. PARC CONTRACTOR SHALL BE RESPONSIBLE FOR VERIFYING EXISTING CONDITIONS AND REMOVING ANY ADDITIONAL PORTIONS OF THE FOUNDATIONS THAT CONFLICT WITH THE PROPOSED PARC IMPROVEMENTS.
6. LENGTHS SHOWN IN THE BEARING AND DISTANCE PLAN VIEW LABELS REPRESENT ALIGNMENT SEGMENT LENGTHS. REFER TO PROFILES FOR HORIZONTAL PIPE SEGMENT LENGTHS BETWEEN STRUCTURES.

REVISION DATES (DESIGN STAGE ONLY)

Sheet Version 3.0

PLANS PREPARED BY: TETRA TECH, INC.
707 WILSHIRE BLVD, 23RD FLR.
LOS ANGELES, CA 90017
PHONE: (213) 239-8866

CITY OF LOS ANGELES — DEPARTMENT OF PUBLIC WORKS — BUREAU OF ENGINEERING

VERT. CONTROL: BM 12-04070, 1929 (NGVD29) • 1985 ADJUSTMENT
HORIZ. CONTROL: GPS; PID AE 1704, EPOCH 1991.35

SHEET TITLE: STORM DRAIN PLAN & PROFILE SHEET 6
PROJECT: SIXTH STREET PARK, ARTS AND RIVER CONNECTIVITY IMPROVEMENTS (PARC)
ADDRESS: SIXTH STREET OVER THE LOS ANGELES RIVER

GARY LEE MOORE, P.E., ENV SP — CITY ENGINEER
DESIGN GROUP
ENGINEER: JUSTIN SMITH — LIC. NO. C-85736 — DATE: 07/11/22
DESIGNED BY: JUSTIN SMITH
DRAWN BY: TYLER PARRA
CHECKED BY: NATE SCHREINER
APPROVED BY: JASON L. FUSSEL

THIS PLAN WAS ELECTRONICALLY SIGNED AND STAMPED.
REGISTERED PROFESSIONAL ENGINEER — JUSTIN T. SMITH — No. 85736 — EXP. 9-30-22 — CIVIL — STATE OF CALIFORNIA

NO. | REVISIONS: | DATE: | BY:

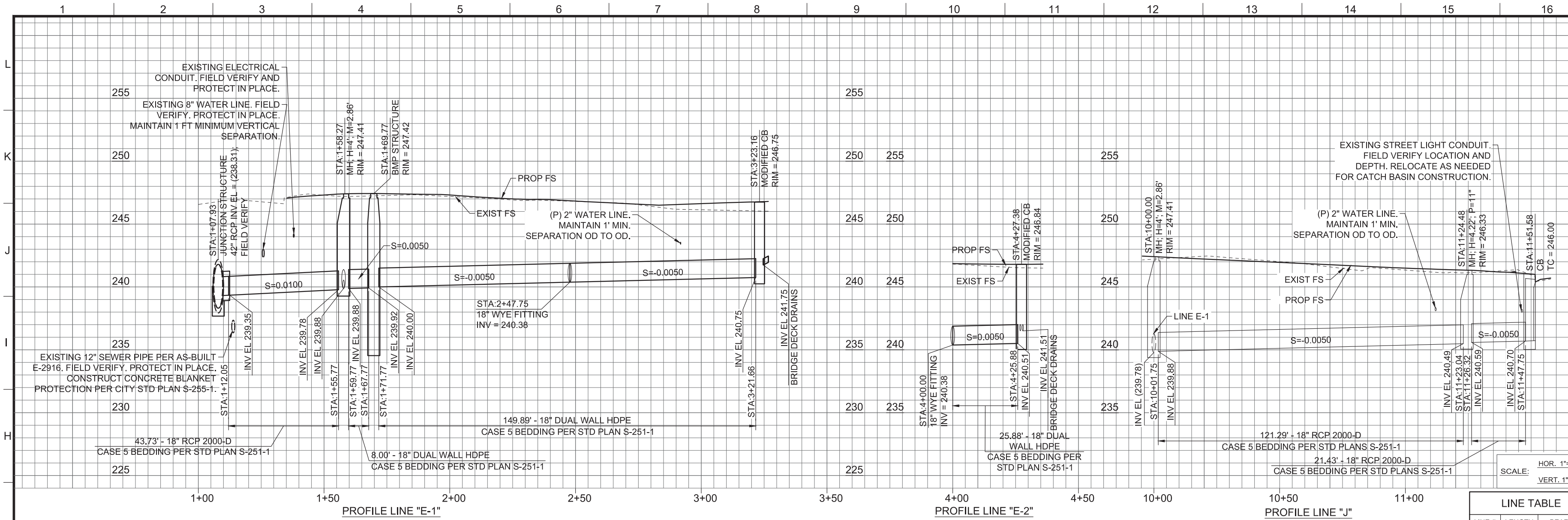
INDEX NO.

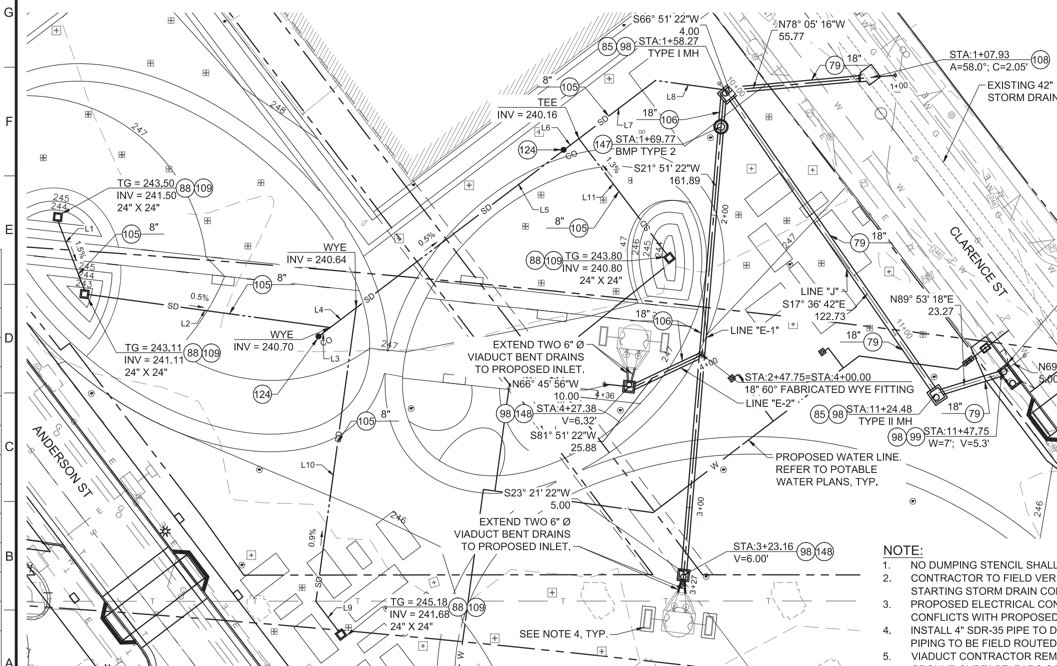
BUILDING NO.

WORK ORDER NO. E700235D
FILE NO. --
DRAWING NO. C-407
SHEET 49 OF 295 SHEETS

7/11/2022 1:13:03 AM - O:\PROJECTS\IRVINE\200431\200-20043-17001\CAD\SHEETFILES\C-407_STORM DRAIN PLAN AND PROFILE - TT.DWG - SMITH, JUSTIN

BID SET - NOT FOR CONSTRUCTION





LEGEND:

PROPERTY / BOUNDARY LINE	EXISTING UNDERGROUND ELECTRICAL
EASEMENT BOUNDARY LINE	PROPOSED WATER LINE
EXISTING SANITARY SEWER	PROPOSED SANITARY SEWER LINE
EXISTING WATER LINE	PROPOSED STORM DRAIN MAIN LINE (Ø ≥ 18")
EXISTING STORM DRAIN	PROPOSED STORM DRAIN LATERAL (Ø ≤ 18")
EXISTING GAS LINE	PROPOSED TREE. SEE LANDSCAPE PLANS.
EXISTING UNDERGROUND/OVERHEAD TELECOMMUNICATIONS LINE	
EXISTING OIL LINE	
EXISTING OVERHEAD ELECTRICAL	

LINE TABLE

LINE #	LENGTH	BEARING
L1	26.01'	S 3°55'55" E
L2	83.52'	S 65°07'10" E
L3	5.00'	S 69°52'50" W
L4	11.06'	S 69°52'50" W
L5	88.94'	S 69°47'46" W
L6	6.44'	S 71°02'40" W
L7	32.85'	S 69°52'50" W
L8	23.74'	N 65°07'10" W
L9	13.15'	N 20°07'10" W
L10	101.01'	N 24°52'50" E
L11	50.04'	N 20°07'10" W

LEGEND OF CONSTRUCTION NOTES

○ CONSTRUCT

NO.	CONSTRUCTION ITEM/NOTE	STANDARD PLAN
79	REINFORCED CONCRETE PIPE (RCP)	S-241-0, S-251-1
85	STORM DRAIN MAINTENANCE HOLE	S-381-0
88	PRECAST GRATE CATCH BASIN	DTL 7, SHT C-605
98	MONOLITHIC CONNECTION	SPPWC 308-3
99	SIDE OPENING CATCH BASIN	SPPWC 300-4
105	SDR-35 PVC PIPE	DTL 4, SHT C-605
106	DUAL WALL HDPE PIPE	S-251-1
108	JUNCTION STRUCTURE	SPPWC 331-3
109	CATCH BASIN FILTRATION INSERT	DTL 7, SHT C-605
124	STORM DRAIN CLEANOUT	DTL 6, SHT C-605
147	HYDRODYNAMIC SEPARATOR, TYPE 2	DTL 1, SHT C-14
148	MODIFIED PRECAST CONCRETE CATCH BASIN (NO INLET)	S-361-0

SCALE: 1"=20'

NOTE:

1. NO DUMPING STENCIL SHALL BE PLACED ON TOP OF INLET OR TOP OF CURB AT ALL INLETS PER DETAIL 9, SHEET C-605.
2. CONTRACTOR TO FIELD VERIFY LOCATIONS AND INVERTS OF ALL EXISTING UTILITIES AND PROPOSED CONNECTIONS TO EXISTING STORM DRAIN FACILITIES BEFORE STARTING STORM DRAIN CONSTRUCTION. CONTRACTOR TO NOTIFY THE CITY OF ANY DISCREPANCIES.
3. PROPOSED ELECTRICAL CONDUIT NOT SHOWN FOR CLARITY. REFER TO ELECTRICAL PLANS. CONTRACTOR RESPONSIBLE FOR ALL COORDINATION TO AVOID CONFLICTS WITH PROPOSED STORM DRAIN SYSTEM.
4. INSTALL 4" SDR-35 PIPE TO DRAIN EXISTING VIADUCT ARCH LIGHT. ARCH LIGHT TO BE ADJUSTED TO IN-GRADE BY PARC CONTRACTOR PER DETAIL 8, SHEET C-600. PIPING TO BE FIELD ROUTED AND CONNECTED TO THE PROPOSED BENT DRAINAGE SYSTEM. CONTRACTOR SHALL SUBMIT LAYOUTS FOR APPROVAL.
5. VIADUCT CONTRACTOR REMOVED PORTIONS OF THE OLD VIADUCT REINFORCED CONCRETE FOUNDATIONS TO A DEPTH OF A FEW FEET BELOW THE EXISTING GROUND SURFACE. PARC CONTRACTOR SHALL BE RESPONSIBLE FOR VERIFYING EXISTING CONDITIONS AND REMOVING ANY ADDITIONAL PORTIONS OF THE FOUNDATIONS THAT CONFLICT WITH THE PROPOSED PARC IMPROVEMENTS.
6. LENGTHS SHOWN IN THE BEARING AND DISTANCE PLAN VIEW LABELS REPRESENT ALIGNMENT SEGMENT LENGTHS. REFER TO PROFILES FOR HORIZONTAL PIPE SEGMENT LENGTHS BETWEEN STRUCTURES.

PLANS PREPARED BY:
TETRA TECH, INC.
707 WILSHIRE BLVD, 23RD FLR.
LOS ANGELES, CA 90017
PHONE: (213) 239-8866

CITY OF LOS ANGELES — DEPARTMENT OF PUBLIC WORKS — BUREAU OF ENGINEERING

VERT. CONTROL: BM 12-04070, 1929 (NGVD29) • 1985 ADJUSTMENT
HORIZ. CONTROL: GPS; PID AE 1704, EPOCH 1991.35

SHEET TITLE: STORM DRAIN PLAN & PROFILE SHEET 7
PROJECT: SIXTH STREET PARK, ARTS AND RIVER CONNECTIVITY IMPROVEMENTS (PARC)
ADDRESS: SIXTH STREET OVER THE LOS ANGELES RIVER

GARY LEE MOORE, P.E., ENV SP — CITY ENGINEER
DESIGN GROUP
ENGINEER: JUSTIN SMITH LIC. NO. C-85736 DATE: 07/11/22
DESIGNED BY: JUSTIN SMITH
DRAWN BY: TYLER PARRA
CHECKED BY: NATE SCHREINER
APPROVED BY: JASON L. FUSSEL

THIS PLAN WAS ELECTRONICALLY SIGNED AND STAMPED.
REGISTERED PROFESSIONAL ENGINEER — JUSTIN T. SMITH — No. 85736 — EXP. 9-30-22 — CIVIL — STATE OF CALIFORNIA

NO. | REVISIONS: | DATE: | BY:
INDEX NO.
BUILDING NO.
ENGINEERING — CITY OF LOS ANGELES

WORK ORDER NO. E700235D
FILE NO. --
DRAWING NO. C-408
SHEET 50 OF 295 SHEETS

REVISION DATES (DESIGN STAGE ONLY)

Sheet Version 3.0

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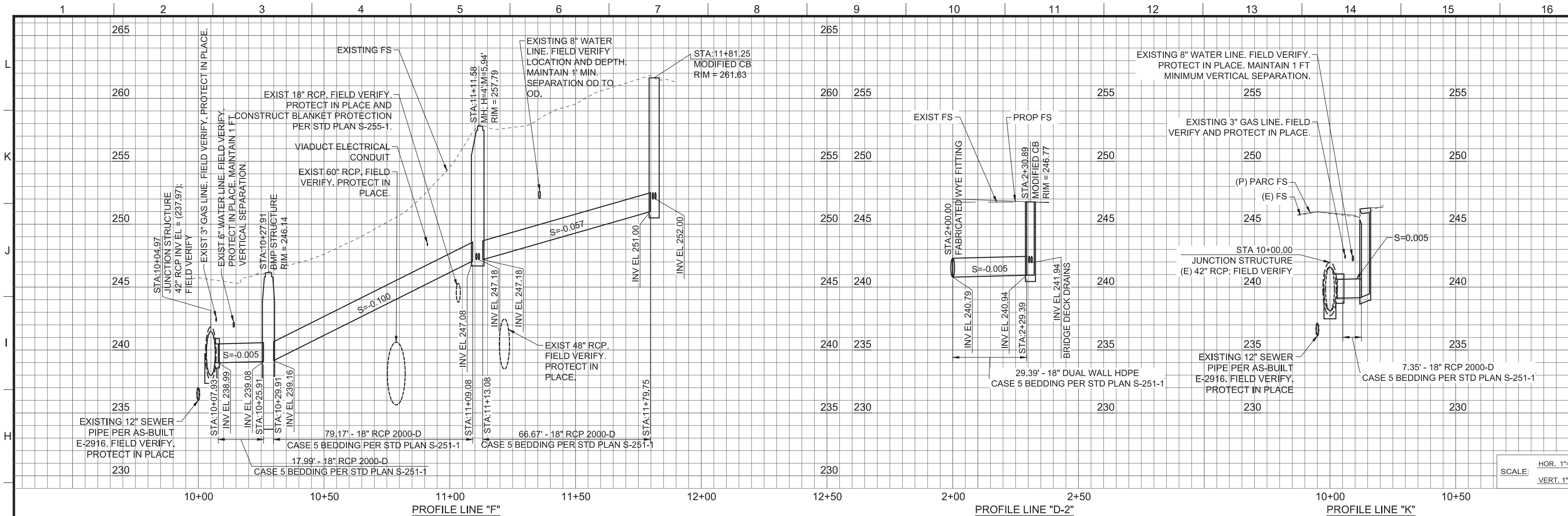
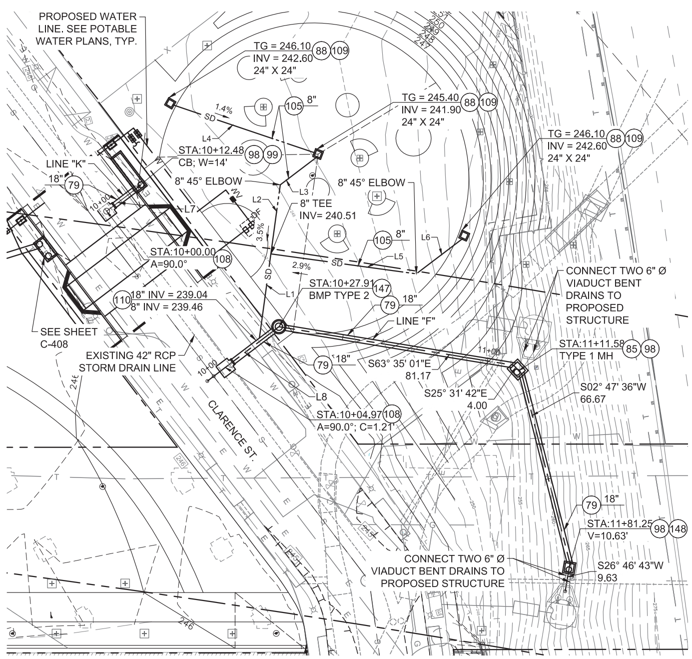
BID SET - NOT FOR CONSTRUCTION



NOTES:

1. NO DUMPING STENCIL SHALL BE PLACED ON TOP OF INLET OR TOP OF CURB AT ALL INLETS PER DETAIL 9, SHEET C-605.
2. CONTRACTOR TO FIELD VERIFY LOCATIONS AND INVERTS OF ALL EXISTING UTILITIES AND PROPOSED CONNECTIONS TO EXISTING STORM DRAIN FACILITIES BEFORE STARTING STORM DRAIN CONSTRUCTION. CONTRACTOR TO NOTIFY THE CITY OF ANY DISCREPANCIES.
3. PROPOSED ELECTRICAL CONDUIT NOT SHOWN FOR CLARITY. REFER TO ELECTRICAL PLANS. CONTRACTOR RESPONSIBLE FOR ALL COORDINATION TO AVOID CONFLICTS WITH PROPOSED STORM DRAIN SYSTEM.
4. VIADUCT CONTRACTOR REMOVED PORTIONS OF THE OLD VIADUCT REINFORCED CONCRETE FOUNDATIONS TO A DEPTH OF A FEW FEET BELOW THE EXISTING GROUND SURFACE. PARC CONTRACTOR SHALL BE RESPONSIBLE FOR VERIFYING EXISTING CONDITIONS AND REMOVING ANY ADDITIONAL PORTIONS OF THE FOUNDATIONS THAT CONFLICT WITH THE PROPOSED PARC IMPROVEMENTS.
5. LENGTHS SHOWN IN THE BEARING AND DISTANCE PLAN VIEW LABELS REPRESENT ALIGNMENT SEGMENT LENGTHS. REFER TO PROFILES FOR HORIZONTAL PIPE SEGMENT LENGTHS BETWEEN STRUCTURES.



LEGEND:

- PROPERTY / BOUNDARY LINE
- EASEMENT BOUNDARY LINE
- EXISTING SANITARY SEWER
- EXISTING WATER LINE
- EXISTING STORM DRAIN
- EXISTING GAS LINE
- EXISTING UNDERGROUND/OVERHEAD TELECOMMUNICATIONS LINE
- EXISTING OIL LINE
- EXISTING OVERHEAD ELECTRICAL
- EXISTING UNDERGROUND ELECTRICAL
- PROPOSED WATER LINE
- PROPOSED SANITARY SEWER LINE
- PROPOSED STORM DRAIN MAIN LINE (Ø ≥ 18")
- PROPOSED STORM DRAIN LATERAL (Ø ≤ 18")
- PROPOSED TREE. SEE LANDSCAPE PLANS.

LINE TABLE

LINE #	LENGTH	BEARING
L1	28.93'	N 24°51'56" E
L2	23.79'	N 24°51'56" E
L3	15.76'	N 69°51'56" E
L4	51.34'	S 54°14'01" E
L5	50.08'	S 65°08'04" E
L6	20.00'	N 69°51'56" E
L7	12.48'	S 69°48'20" W
L8	27.91'	N 69°51'56" E

LEGEND OF CONSTRUCTION NOTES

◯ CONSTRUCT

NO.	CONSTRUCTION ITEM/NOTE	STANDARD PLAN
79	REINFORCED CONCRETE PIPE (RCP)	S-241-0, S-251-1
85	STORM DRAIN MAINTENANCE HOLE	S-381-0
88	PRECAST GRATE CATCH BASIN	DTL 7, SHT C-605
98	MONOLITHIC CONNECTION	SPPWC 308-3
99	SIDE OPENING CATCH BASIN	SPPWC 300-4
105	SDR-35 PVC PIPE	DTL 4, SHT C-605
108	JUNCTION STRUCTURE	SPPWC 331-3
109	CATCH BASIN FILTRATION INSERT	DTL 7, SHT C-605
110	JUNCTION STRUCTURE	SPPWC 332-2
148	MODIFIED PRECAST CONCRETE CATCH BASIN (NO INLET)	S-361-0

SCALE: 1"=20'

PLANS PREPARED BY:
TETRA TECH, INC.
707 WILSHIRE BLVD, 23RD FLR.
LOS ANGELES, CA 90017
PHONE: (213) 239-8866

CITY OF LOS ANGELES — DEPARTMENT OF PUBLIC WORKS — BUREAU OF ENGINEERING

VERT. CONTROL: BM 12-04070, 1929 (NGVD29) • 1985 ADJUSTMENT
HORIZ. CONTROL: GPS; PID AE 1704, EPOCH 1991.35

SHEET TITLE: STORM DRAIN PLAN & PROFILE SHEET 8
PROJECT: SIXTH STREET PARK, ARTS AND RIVER CONNECTIVITY IMPROVEMENTS (PARC)
ADDRESS: SIXTH STREET OVER THE LOS ANGELES RIVER

GARY LEE MOORE, P.E., ENV SP — CITY ENGINEER
DESIGN GROUP
ENGINEER: JUSTIN SMITH — LIC. NO. C-85736 — DATE: 07/11/22
DESIGNED BY: JUSTIN SMITH
DRAWN BY: TYLER PARRA
CHECKED BY: NATE SCHREINER
APPROVED BY: JASON L. FUSSEL

THIS PLAN WAS ELECTRONICALLY SIGNED AND STAMPED.
REGISTERED PROFESSIONAL ENGINEER — JUSTIN T. SMITH — No. 85736 — EXP: 9-30-22 — CIVIL — STATE OF CALIFORNIA

NO.	REVISIONS	DATE	BY

INDEX NO.
BUILDING NO.

WORK ORDER NO. E700235D
FILE NO. --
DRAWING NO. C-409
SHEET 51 OF 295 SHEETS

BIND SET - NOT FOR CONSTRUCTION

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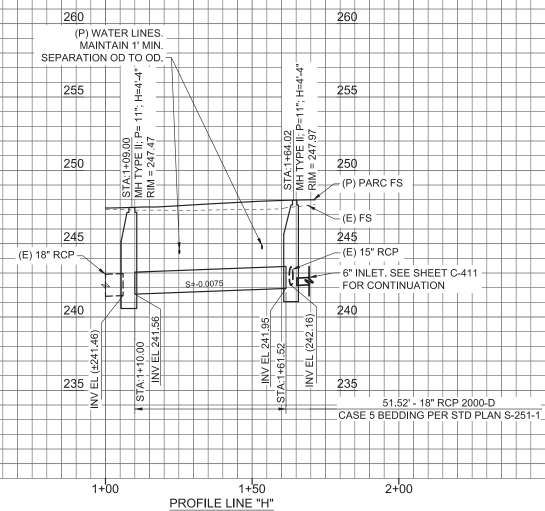
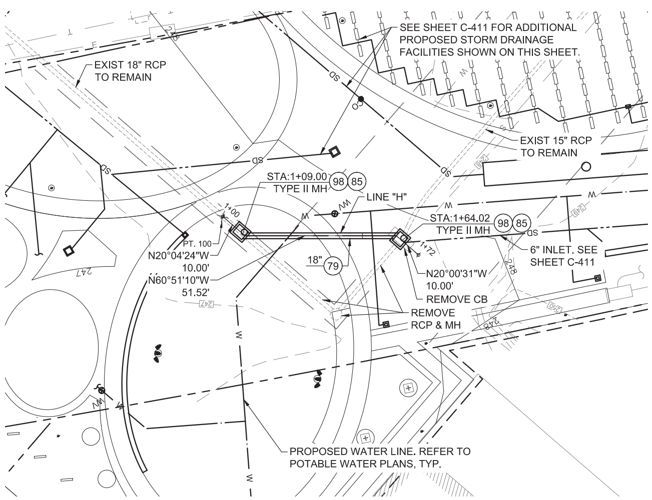
REVISION DATES (DESIGN STAGE ONLY)

Sheet Version 3.0



SCALE: HOR. 1"= 20' VERT. 1"= 4'



LEGEND OF CONSTRUCTION NOTES

○ CONSTRUCT

NO.	CONSTRUCTION ITEM/NOTE	STANDARD PLAN
79	REINFORCED CONCRETE PIPE (RCP)	S-241-0, S-251-1
85	STORM DRAIN MAINTENANCE HOLE	S-381-0
98	MONOLITHIC CONNECTION	SPPWC 308-3

POINT TABLE

PT#	NORTHING	EASTING
100	1836210.57	6493788.22

LEGEND:

- PROPERTY / BOUNDARY LINE
- EASEMENT BOUNDARY LINE
- S — EXISTING SANITARY SEWER
- W — EXISTING WATER LINE
- EXISTING STORM DRAIN
- G — EXISTING GAS LINE
- T — EXISTING UNDERGROUND/OVERHEAD TELECOMMUNICATIONS LINE
- O — EXISTING OIL LINE
- OHS — EXISTING OVERHEAD ELECTRICAL
- E — EXISTING UNDERGROUND ELECTRICAL
- W — PROPOSED WATER LINE
- SS — PROPOSED SANITARY SEWER LINE
- PROPOSED STORM DRAIN MAIN LINE (Ø ≥ 18")
- SD — PROPOSED STORM DRAIN LATERAL (Ø ≤ 18")

0 10 20 40
SCALE: 1"=20'

NOTE:

1. NO DUMPING STENCIL SHALL BE PLACED ON TOP OF INLET OR TOP OF CURB AT ALL INLETS PER DETAIL 9, SHEET C-605.
2. CONTRACTOR TO FIELD VERIFY LOCATIONS AND INVERTS OF ALL EXISTING UTILITIES AND PROPOSED CONNECTIONS TO EXISTING STORM DRAIN FACILITIES BEFORE STARTING STORM DRAIN CONSTRUCTION. CONTRACTOR TO NOTIFY THE CITY OF ANY DISCREPANCIES.
3. PROPOSED ELECTRICAL CONDUIT NOT SHOWN FOR CLARITY. REFER TO ELECTRICAL PLANS. CONTRACTOR RESPONSIBLE FOR ALL COORDINATION TO AVOID CONFLICTS WITH PROPOSED STORM DRAIN SYSTEM.

PLANS PREPARED BY:
TETRA TECH, INC.
707 WILSHIRE BLVD, 23RD FLR.
LOS ANGELES, CA 90017
PHONE: (213) 239-8866

CITY OF LOS ANGELES — DEPARTMENT OF PUBLIC WORKS — BUREAU OF ENGINEERING

GARY LEE MOORE, P.E., ENV SP — CITY ENGINEER

DESIGN GROUP
ENGINEER: JUSTIN SMITH — LIC. NO. C-85736 — DATE: 07/11/22
DESIGNED BY: JUSTIN SMITH
DRAWN BY: TYLER PARRA
CHECKED BY: NATE SCHREINER
APPROVED BY: JASON L. FUSSEL

VERT. CONTROL: BM 12-04070, 1929 (NGVD29) + 1985 ADJUSTMENT
HORIZ. CONTROL: GPS; PID AE 1704, EPOCH 1991.35

SHEET TITLE: STORM DRAIN PLAN & PROFILE SHEET 9
PROJECT: SIXTH STREET PARK, ARTS AND RIVER CONNECTIVITY IMPROVEMENTS (PARC)
ADDRESS: SIXTH STREET OVER THE LOS ANGELES RIVER

WORK ORDER NO. E700235D
FILE NO. --
DRAWING NO. C-410
SHEET 52 OF 295 SHEETS

REGISTERED PROFESSIONAL ENGINEER — JUSTIN T. SMITH — No. 85736 — EXP. 9-30-22 — CIVIL — STATE OF CALIFORNIA

THIS PLAN WAS ELECTRONICALLY SIGNED AND STAMPED.

NO. | REVISIONS: | DATE: | BY:

INDEX NO. | BUILDING NO.

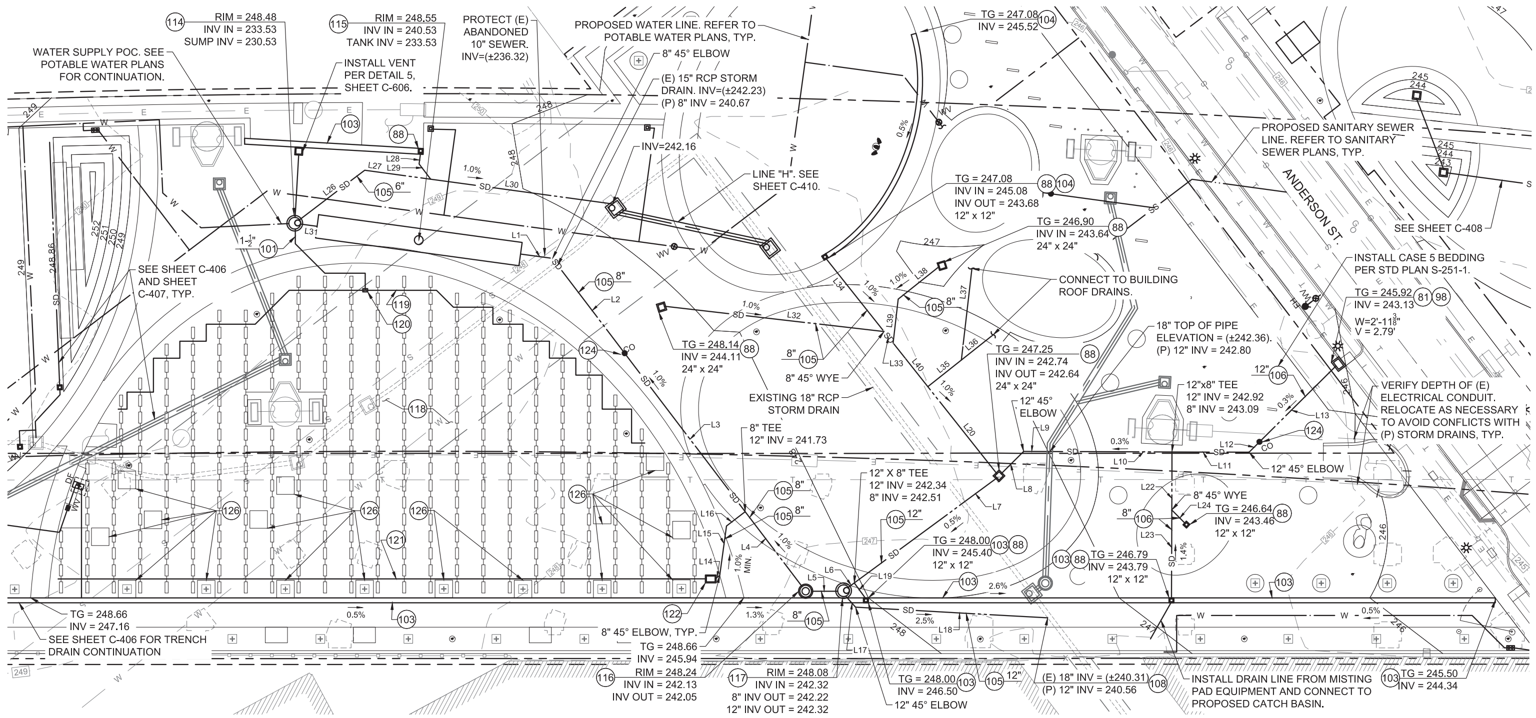
ENGINEERING — CITY OF LOS ANGELES

REVISION DATES (DESIGN STAGE ONLY)

7/7/2022 9:10:38 AM - O:\PROJECTS\IRVINE\2004\3\200-20043-17001\CAD\SHEETFILES\C-410_STORM DRAIN PLAN.DWG - SMITH, JUSTIN

Sheet Version 3.0

BID SET - NOT FOR CONSTRUCTION



LEGEND:

- PROPERTY / BOUNDARY LINE
- EASEMENT BOUNDARY LINE
- EXISTING SANITARY SEWER
- EXISTING WATER LINE
- EXISTING STORM DRAIN
- EXISTING GAS LINE
- EXISTING UNDERGROUND/OVERHEAD TELECOMMUNICATIONS LINE
- EXISTING OIL LINE
- EXISTING OVERHEAD ELECTRICAL
- EXISTING UNDERGROUND ELECTRICAL
- PROPOSED WATER LINE
- PROPOSED SANITARY SEWER LINE
- PROPOSED STORM DRAIN MAIN LINE (Ø ≥ 18")
- PROPOSED STORM DRAIN LATERAL (Ø ≤ 18")

NOTE:

1. NO DUMPING STENCIL SHALL BE PLACED ON TOP OF INLET OR TOP OF CURB AT ALL INLETS PER DETAIL 9, SHEET C-605.
2. CONTRACTOR TO FIELD VERIFY LOCATIONS AND INVERTS OF ALL EXISTING UTILITIES AND PROPOSED CONNECTIONS TO EXISTING STORM DRAIN FACILITIES BEFORE STARTING STORM DRAIN CONSTRUCTION. CONTRACTOR TO NOTIFY THE CITY OF ANY DISCREPANCIES.
3. PROPOSED ELECTRICAL CONDUIT NOT SHOWN FOR CLARITY. REFER TO ELECTRICAL PLANS. CONTRACTOR RESPONSIBLE FOR ALL COORDINATION TO AVOID CONFLICTS WITH PROPOSED STORM DRAIN SYSTEM..

LEGEND OF CONSTRUCTION NOTES

○ CONSTRUCT

NO.	CONSTRUCTION ITEM/NOTE	STANDARD PLAN
81	CURBSIDE GRATING BASIN (CGB)	SPPWC 303-3
88	PRECAST GRATE CATCH BASIN	DTL 7, SHT C-605
101	SCH 40 PVC PIPE	DTL 4, SHT C-605
103	TRENCH DRAIN	DTL 10, SHT C-605
104	RADIUS TRENCH DRAIN	DTL 5, SHT C-605
105	SDR-35 PVC PIPE	DTL 4, SHT C-605
106	DUAL WALL HDPE PIPE	DTL 4, SHT C-605
108	JUNCTION STRUCTURE	SPPWC 331-3
110	JUNCTION STRUCTURE	SPPWC 332-2
114	WET WELL AND PUMP	DTL 4, SHT C-606
115	STORMWATER STORAGE TANK	DTL 4, SHT C-606
116	HYDRODYNAMIC SEPARATOR, TYPE 1	DTL 1, SHT C-606
117	DIVERSION MAINTENANCE HOLE	DTL 3, SHT C-606
118	EPIC SYSTEM	DTL 1, 2, 7, & 9, SHT C-607
119	EPIC SYSTEM INLET HEADER PIPE	DTL 3, SHT C-607
120	EPIC SYSTEM INLET STRUCTURE	DTL 4, SHT C-607
121	EPIC SYSTEM OUTLET HEADER PIPE	DTL 5, SHT C-607
122	EPIC SYSTEM OUTLET STRUCTURE	DTL 6, SHT C-607
123	PRECAST CONCRETE JUNCTION STRUCTURE W/ COVER	DTL 8, SHT C-605
124	STORM DRAIN CLEANOUT	DTL 6, SHT C-605
126	EPIC SYSTEM AT TREE LOCATIONS	DTL 8, SHT C-607

LINE TABLE

LINE #	LENGTH	BEARING
L1	11.00'	S 65°08'33" E
L2	40.65'	N 20°08'33" W
L3	67.91'	N 20°08'33" W
L4	32.09'	N 20°08'33" W
L5	8.95'	N 72°54'22" W
L6	2.48'	S 70°43'40" W
L7	60.42'	S 70°43'40" W
L8	10.83'	S 62°17'24" W
L9	8.00'	N 72°42'36" W
L10	67.03'	N 72°42'36" W
L11	67.03'	N 72°42'36" W
L12	5.00'	S 62°17'24" W
L13	36.76'	S 62°17'24" W
L14	2.00'	N 69°51'27" E
L15	17.01'	N 24°51'27" E
L16	8.00'	N 69°51'27" E
L17	5.00'	N 24°42'42" W
L18	65.62'	N 69°42'42" W
L19	6.74'	N 19°16'20" W
L20	37.95'	S 21°20'07" E

LINE TABLE

LINE #	LENGTH	BEARING
L22	19.79'	S 17°17'24" W
L23	29.99'	S 17°17'24" W
L24	6.55'	S 27°42'36" E
L26	27.93'	N 69°51'27" E
L27	22.69'	S 65°08'33" E
L28	4.00'	N 24°51'27" E
L29	6.51'	N 20°08'33" W
L30	62.59'	S 65°08'33" E
L31	5.67'	N 65°08'33" W
L32	75.38'	S 66°20'07" E
L33	93.89'	S 21°20'07" E
L34	31.94'	N 21°20'07" W
L35	14.62'	N 68°39'53" E
L36	13.87'	N 68°39'53" E
L37	31.43'	N 23°39'53" E
L38	17.88'	N 68°39'53" E
L39	15.10'	N 23°39'53" E
L40	19.00'	S 21°20'07" E

SCALE: 1"=20'

PLANS PREPARED BY:
TETRA TECH, INC.
707 WILSHIRE BLVD, 23RD FLR.
LOS ANGELES, CA 90017
PHONE: (213) 239-8866

CITY OF LOS ANGELES — DEPARTMENT OF PUBLIC WORKS — BUREAU OF ENGINEERING

VERT. CONTROL: BM 12-04070, 1929 (NGVD29) - 1985 ADJUSTMENT
HORIZ. CONTROL: GPS; PID AE 1704, EPOCH 1991.35

SHEET TITLE: STORM DRAIN PLAN SHEET 10
PROJECT: SIXTH STREET PARK, ARTS AND RIVER CONNECTIVITY IMPROVEMENTS (PARC)
ADDRESS: SIXTH STREET OVER THE LOS ANGELES RIVER

GARY LEE MOORE, P.E., ENV SP — CITY ENGINEER
DESIGN GROUP
ENGINEER: JUSTIN SMITH LIC. NO. C-85736 DATE: 07/11/22
DESIGNED BY: JUSTIN SMITH
DRAWN BY: TYLER PARRA
CHECKED BY: NATE SCHREINER
APPROVED BY: JASON L. FUSSEL

THIS PLAN WAS ELECTRONICALLY SIGNED AND STAMPED.
REGISTERED PROFESSIONAL ENGINEER — JUSTIN T. SMITH — No. 85736 — EXP. 9-30-22 — CIVIL — STATE OF CALIFORNIA

NO. | REVISIONS: | DATE: | BY:

INDEX NO.
BUILDING NO.

WORK ORDER NO. E700235D
FILE NO. --
DRAWING NO. C-411
SHEET 53 OF 295 SHEETS

REVISION DATES (DESIGN STAGE ONLY)

THE CITY OF LOS ANGELES OR ITS OFFICERS OR AGENTS SHALL NOT BE RESPONSIBLE FOR THE ACCURACY OR COMPLETENESS OF ELECTRONIC COPIES OF THIS PLAN SHEET.

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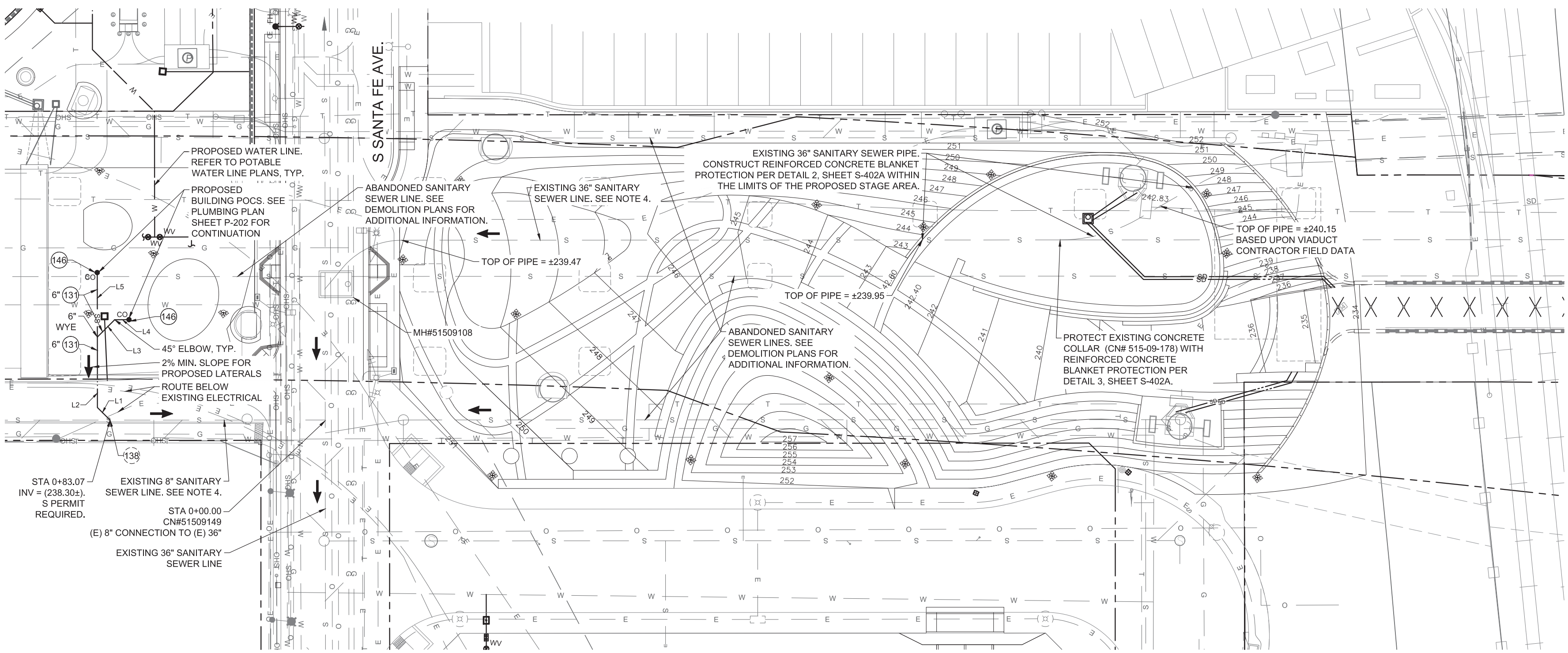

LEGEND:

- PROPERTY / BOUNDARY LINE
- EASEMENT BOUNDARY LINE
- EXISTING SANITARY SEWER
- EXISTING WATER LINE
- EXISTING STORM DRAIN
- EXISTING GAS LINE
- EXISTING UNDERGROUND/OVERHEAD TELECOMMUNICATIONS LINE
- EXISTING OIL LINE
- EXISTING OVERHEAD ELECTRICAL
- EXISTING UNDERGROUND ELECTRICAL
- PROPOSED WATER LINE
- PROPOSED SANITARY SEWER LINE
- PROPOSED STORM DRAIN MAIN LINE (Ø ≥ 18")
- PROPOSED STORM DRAIN LATERAL (Ø ≤ 18")

LEGEND OF CONSTRUCTION NOTES

○ CONSTRUCT ◌ WORK BY OTHERS

NO.	CONSTRUCTION ITEM/NOTE	STANDARD PLAN
131	SDR 35 SANITARY SEWER PIPE	S-110-1, S-251-1
138	SADDLE	27983
146	TWO-WAY CLEANOUT STRUCTURE	DTL 2, SHT C-605

LINE TABLE

LINE #	LENGTH	DIRECTION
L1	6.90'	N50° 10' 41"W
L2	27.23'	N05° 10' 41"W
L3	9.49'	N39° 49' 19"E
L4	5.51'	N84° 49' 19"E
L5	24.95'	N05° 10' 41"W

NOTES:

1. EXISTING UTILITIES ARE SHOWN FOR REFERENCE ONLY. ACTUAL LOCATIONS MAY VARY. CONTRACTOR TO VERIFY THE LOCATIONS AND ELEVATIONS OF EXISTING UTILITIES IN THE FIELD.
2. REFER TO STORM DRAINAGE SHEETS FOR PROPOSED STORM DRAINAGE SYSTEMS.
3. REFER TO POTABLE WATER SHEETS FOR PROPOSED WATER LINES.
4. CONTRACTOR SHALL PROVIDE PRE- AND POST-CONSTRUCTION CCTV INSPECTION OF EXISTING SEWER LINE.

SCALE: 1"=20'

PLANS PREPARED BY:
TETRA TECH, INC.
707 WILSHIRE BLVD, 23RD FLR.
LOS ANGELES, CA 90017
PHONE: (213) 239-8866

CITY OF LOS ANGELES — DEPARTMENT OF PUBLIC WORKS — BUREAU OF ENGINEERING

VERT. CONTROL: BM 12-04070, 1929 (NGVD29) - 1985 ADJUSTMENT
HORIZ. CONTROL: GPS: PID AE 1704, EPOCH 1991.35

SHEET TITLE: SEWER LATERAL PLAN SHEET 1
PROJECT: SIXTH STREET PARK, ARTS AND RIVER CONNECTIVITY IMPROVEMENTS (PARC)
ADDRESS: SIXTH STREET OVER THE LOS ANGELES RIVER

GARY LEE MOORE, P.E., ENV SP — CITY ENGINEER
DESIGN GROUP — DATE:
ENGINEER: JUSTIN SMITH — LIC. NO. C-85736 — 07/11/22
DESIGNED BY: JUSTIN SMITH
DRAWN BY: DAVID LOPEZ
CHECKED BY: NATE SCHREINER
APPROVED BY: JASON L. FUSSEL

THIS PLAN WAS ELECTRONICALLY SIGNED AND STAMPED.
REGISTERED PROFESSIONAL ENGINEER — JUSTIN T. SMITH — No. 85736 — EXP: 9-30-22 — CIVIL — STATE OF CALIFORNIA

NO. | REVISIONS: | DATE: | BY:

INDEX NO.

BUILDING NO.

ENGINEERING — CITY OF LOS ANGELES

WORK ORDER NO. E700235D
FILE NO. --
DRAWING NO. C-415
SHEET 54 OF 295 SHEETS

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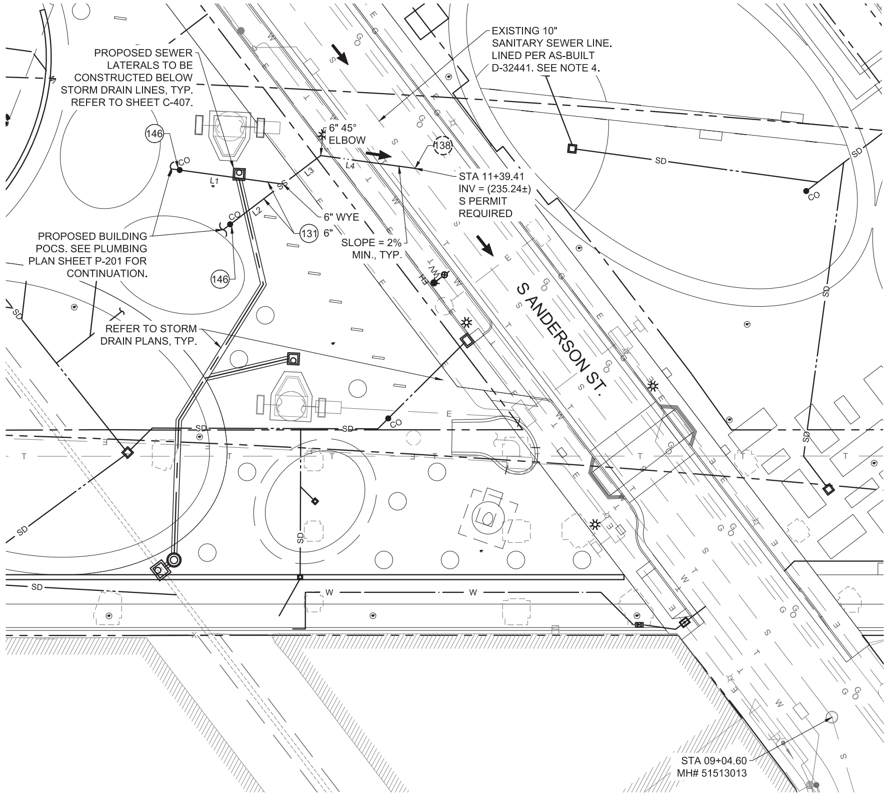

LEGEND:

	PROPERTY / BOUNDARY LINE
	EASEMENT BOUNDARY LINE
S	EXISTING SANITARY SEWER
W	EXISTING WATER LINE
	EXISTING STORM DRAIN
G	EXISTING GAS LINE
T	EXISTING UNDERGROUND/OVERHEAD TELECOMMUNICATIONS LINE
O	EXISTING OIL LINE
OHS	EXISTING OVERHEAD ELECTRICAL
E	EXISTING UNDERGROUND ELECTRICAL
W	PROPOSED WATER LINE
SS	PROPOSED SANITARY SEWER LINE
	PROPOSED STORM DRAIN MAIN LINE (Ø ≥ 18")
SD	PROPOSED STORM DRAIN LATERAL (Ø ≤ 18")

LEGEND OF CONSTRUCTION NOTES

◯ CONSTRUCT   ◌ WORK BY OTHERS

NO.	CONSTRUCTION ITEM/NOTE	STANDARD PLAN
131	SDR 35 SANITARY SEWER PIPE	S-110-1, S-251-1
138	SADDLE	27983
146	TWO-WAY CLEANOUT STRUCTURE	DTL 2, SHT C-605

LINE TABLE

LINE #	LENGTH	BEARING
L1	38.56'	N65° 08' 33"W
L2	41.75'	S69° 51' 27"W
L3	41.75'	S69° 51' 27"W
L4	32.47'	N65° 08' 33"W

NOTES:

1. EXISTING UTILITIES ARE SHOWN FOR REFERENCE ONLY. ACTUAL LOCATIONS MAY VARY. CONTRACTOR TO VERIFY THE LOCATIONS AND ELEVATIONS OF EXISTING UTILITIES IN THE FIELD.
2. REFER TO STORM DRAINAGE SHEETS FOR PROPOSED STORM DRAINAGE SYSTEMS.
3. REFER TO POTABLE WATER SHEETS FOR PROPOSED WATER LINES.
4. CONTRACTOR SHALL PROVIDE PRE- AND POST-CONSTRUCTION CCTV INSPECTION OF EXISTING SEWER LINE.

SCALE: 1"=20'

PLANS PREPARED BY:

TETRA TECH, INC.
707 WILSHIRE BLVD, 23RD FLR.
LOS ANGELES, CA 90017
PHONE: (213) 239-8866

CITY OF LOS ANGELES — DEPARTMENT OF PUBLIC WORKS — BUREAU OF ENGINEERING

VERT. CONTROL: BM 12-04070, 1929 (NGVD29) • 1985 ADJUSTMENT
HORIZ. CONTROL: GPS, PID AE 1704, EPOCH 1991.35

SHEET TITLE: SEWER LATERAL PLAN SHEET 2
PROJECT: SIXTH STREET PARK, ARTS AND RIVER CONNECTIVITY IMPROVEMENTS (PARC)
ADDRESS: SIXTH STREET OVER THE LOS ANGELES RIVER

WORK ORDER NO. E700235D
FILE NO. --
DRAWING NO. C-416
SHEET 55 OF 295 SHEETS

GARY LEE MOORE, P.E., ENV SP — CITY ENGINEER
DESIGN GROUP — DATE:
ENGINEER: JUSTIN SMITH — LIC. NO. C-85736 — 07/11/22
DESIGNED BY: JUSTIN SMITH
DRAWN BY: DAVID LOPEZ
CHECKED BY: NATE SCHREINER
APPROVED BY: JASON L. FUSSEL

THIS PLAN WAS ELECTRONICALLY SIGNED AND STAMPED.

REGISTERED PROFESSIONAL ENGINEER — JUSTIN T. SMITH — No. 85736 — EXP: 9-30-22 — CIVIL — STATE OF CALIFORNIA

NO.	REVISIONS:	DATE:	BY:

INDEX NO.

BUILDING NO.

ENGINEERING — CITY OF LOS ANGELES

REVISION DATES (DESIGN STAGE ONLY)

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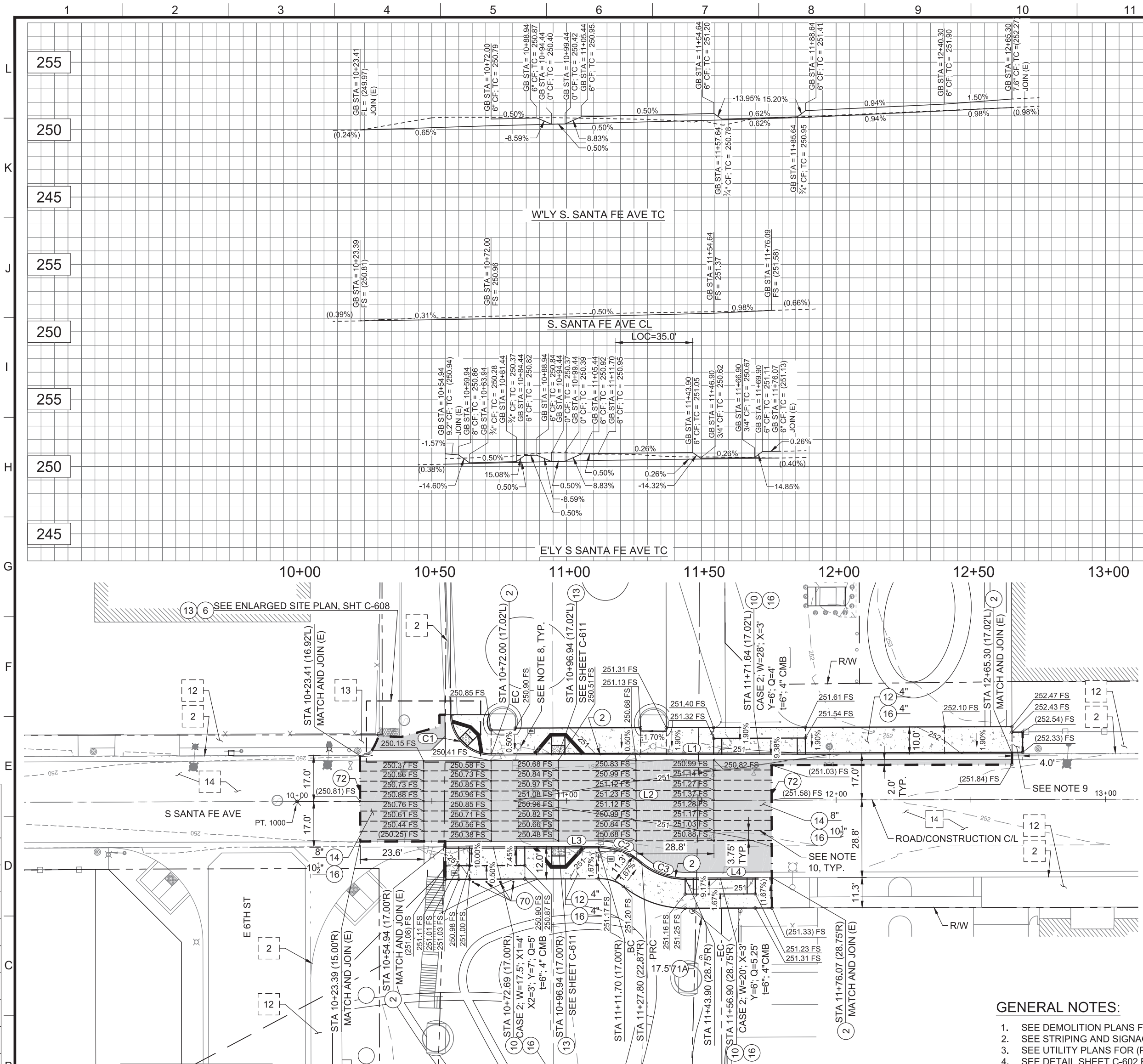

SEE BELOW RIGHT

LINE TABLE		
LINE #	LENGTH	DIRECTION
L1	193.29	N05° 10' 40.54"W
L2	300.00	N05° 10' 41.93"W
L3	56.76	N05° 10' 45.49"W
L4	32.17	N05° 10' 40.59"W

CURVE TABLE			
CURVE #	LENGTH	RADIUS	DELTA
C1	23.57	15.00	90.05
C2	17.50	25.00	40.10
C3	17.50	25.00	40.10

POINT TABLE		
POINT #	NORTHING	EASTING
1000	1836351.95	6491837.57

SEE ABOVE LEFT

LEGEND OF CONSTRUCTION NOTES

CONSTRUCT — REMOVE — REMODEL
WORK BY OTHERS — EXISTING-PROTECT IN PLACE — REMOVE & RECONSTRUCT

NO.	CONSTRUCTION ITEM/NOTE	STANDARD PLAN
2	TYPE C INTEGRAL CURB & GUTTER	S-410-2
6	CONCRETE INTERSECTION GUTTER	S-410-2
10	CONCRETE DRIVEWAY	S-440-4
12	CONCRETE WALK	S-444-0; DTL 4, SHT C-600
13	CURB RAMP	S-442-6
14	ASPHALT CONCRETE PAVEMENT	DTL 1, SHT C-600
16	UNTREATED BASE MATERIAL	SEE PVMT DTL
28	CURB AND SIDEWALK JOINT	SPPWC 112-2
68	DETECTABLE WARNING SURFACE	DTL 8, SHT C-601
70	REMOVABLE BOLLARD	DTL 3, SHT C-601
71A	SWING GATE	DTL 1, SHT C-611
72	SAWCUT LINE; JOIN EXISTING	DTL 2, 5, 6, SHT C-600

LEGEND:

AC PAVEMENT
PORTLAND CEMENT CONC. SIDEWALK
SAWCUT

GENERAL NOTES:

1. SEE DEMOLITION PLANS FOR REMOVALS, RELOCATIONS, OR PROTECTIONS OF (E) FEATURES.
2. SEE STRIPING AND SIGNAGE PLANS FOR (P) STRIPING AND SIGNAGE IMPROVEMENTS.
3. SEE UTILITY PLANS FOR (P) UTILITY RELOCATIONS AND IMPROVEMENTS NOT SHOWN ON THIS SHEET.
4. SEE DETAIL SHEET C-602 FOR TYPICAL STREET SECTIONS.
5. SEE LANDSCAPE PLANS FOR (P) SITE GRADING.
6. SIDEWALK AT PROPOSED DRIVEWAY LOCATIONS TO BE 6" THICK.
7. CONSTRUCT JOINTS PER SPPWC 112-2 AND APPLICABLE STD PLANS.
8. PROPOSED TRAFFIC SIGNAL AND LIGHTING IMPROVEMENTS BY THE SEPARATE ATP-3 PROJECT HAVE BEEN SHOWN FOR REFERENCE. SEE DEMOLITION SHEET CD-002 FOR ADDITIONAL INFORMATION.
9. RECONSTRUCT SIDEWALK PANEL TO TRANSITION TO EXISTING SIDEWALK WITH NON-ADA COMPLIANT CROSS SLOPES.
10. CONSTRUCT T-SECTION PER CITY STD PLAN S-432-1 (T = $\frac{1}{2}$"). CROWN SECTION SLOPE SHALL NOT EXCEED 5% AT THE PROPOSED CROSSWALK LOCATION.
11. SIDEWALK CROSS SLOPES SHALL NOT EXCEED 2%.

SCALE: 1"=20'

PLANS PREPARED BY: TETRA TECH, INC.
707 WILSHIRE BLVD. 23RD FLR.
LOS ANGELES, CA 90017
PHONE: (213) 239-8866

CITY OF LOS ANGELES — DEPARTMENT OF PUBLIC WORKS — BUREAU OF ENGINEERING

VERT. CONTROL: BM 12-04070, 1929 (NGVD29) • 1985 ADJUSTMENT
HORIZ. CONTROL: GPS: PID AE 1704, EPOCH 1991.35

SHEET TITLE: STREET IMPROVEMENTS SANTA FE AVENUE
PROJECT: SIXTH STREET PARK, ARTS AND RIVER CONNECTIVITY IMPROVEMENTS (PARC)
ADDRESS: SIXTH STREET OVER THE LOS ANGELES RIVER

GARY LEE MOORE, P.E., ENV SP — CITY ENGINEER
DESIGN GROUP
ENGINEER: JUSTIN SMITH — LIC. NO. C-85736 — DATE: 07/11/22
DESIGNED BY: JUSTIN SMITH
DRAWN BY: DAVID LOPEZ
CHECKED BY: NATE SCHREINER
APPROVED BY: JASON L. FUSSEL

THIS PLAN WAS ELECTRONICALLY SIGNED AND STAMPED.
REGISTERED PROFESSIONAL ENGINEER — JUSTIN T. SMITH — No. 85736 — EXP. 9-30-22 — CIVIL — STATE OF CALIFORNIA

NO. | REVISIONS: | DATE: | BY:
INDEX NO.
BUILDING NO.

ENGINEERING — CITY OF LOS ANGELES

WORK ORDER NO. E700235D
FILE NO. --
DRAWING NO. C-500
SHEET 56 OF 295 SHEETS

REVISION DATES (DESIGN STAGE ONLY)

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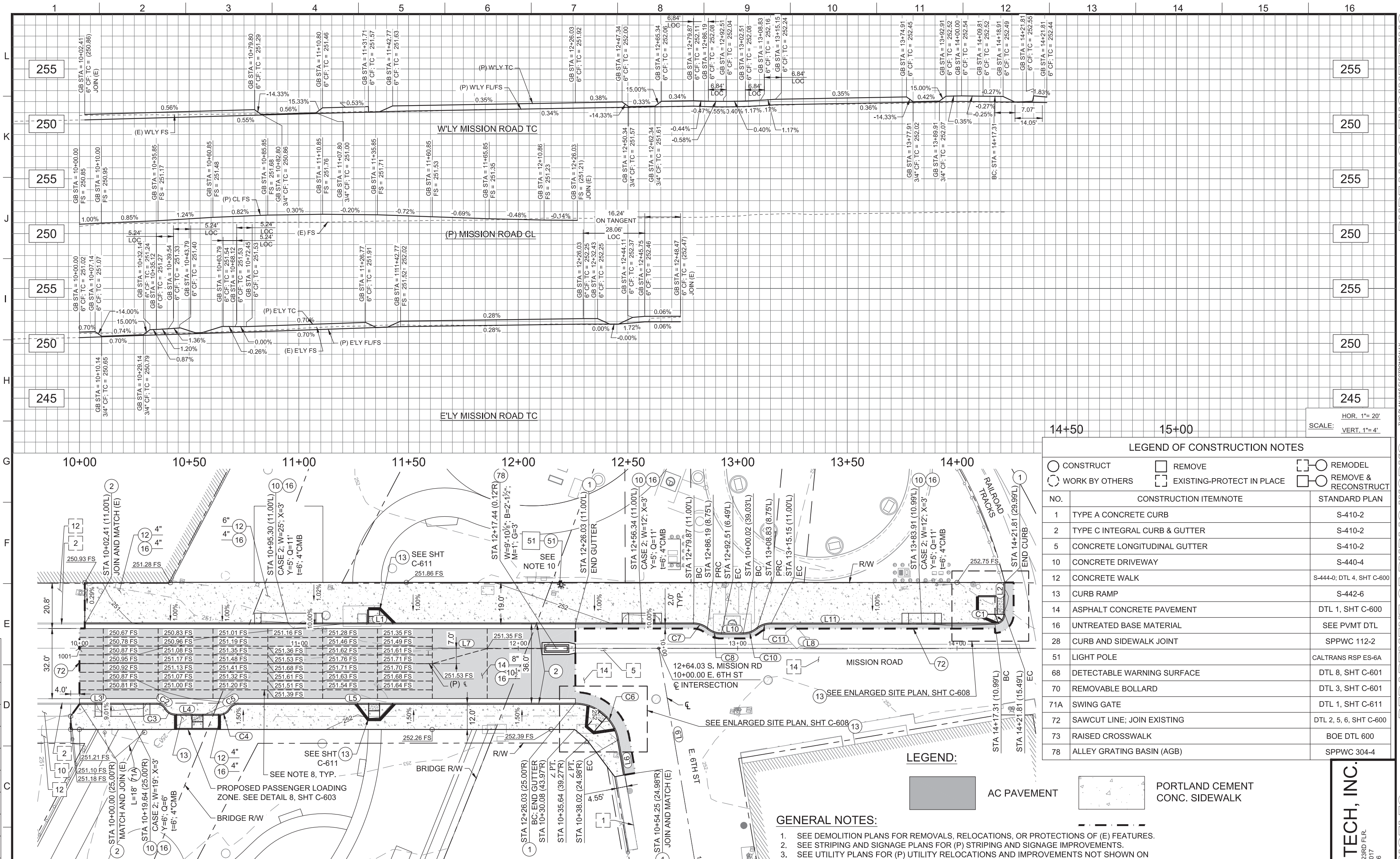

LEGEND OF CONSTRUCTION NOTES

○ CONSTRUCT | ◌ WORK BY OTHERS | □ REMOVE | ⌜⌟ EXISTING-PROTECT IN PLACE | REMODEL | REMOVE & RECONSTRUCT

NO.	CONSTRUCTION ITEM/NOTE	STANDARD PLAN
1	TYPE A CONCRETE CURB	S-410-2
2	TYPE C INTEGRAL CURB & GUTTER	S-410-2
5	CONCRETE LONGITUDINAL GUTTER	S-410-2
10	CONCRETE DRIVEWAY	S-440-4
12	CONCRETE WALK	S-444-0; DTL 4, SHT C-600
13	CURB RAMP	S-442-6
14	ASPHALT CONCRETE PAVEMENT	DTL 1, SHT C-600
16	UNTREATED BASE MATERIAL	SEE PVMT DTL
28	CURB AND SIDEWALK JOINT	SPPWC 112-2
51	LIGHT POLE	CALTRANS RSP ES-6A
68	DETECTABLE WARNING SURFACE	DTL 8, SHT C-601
70	REMOVABLE BOLLARD	DTL 3, SHT C-601
71A	SWING GATE	DTL 1, SHT C-611
72	SAWCUT LINE; JOIN EXISTING	DTL 2, 5, 6, SHT C-600
73	RAISED CROSSWALK	BOE DTL 600
78	ALLEY GRATING BASIN (AGB)	SPPWC 304-4

LEGEND:

AC PAVEMENT

PORTLAND CEMENT CONC. SIDEWALK

GENERAL NOTES:

1. SEE DEMOLITION PLANS FOR REMOVALS, RELOCATIONS, OR PROTECTIONS OF (E) FEATURES.
2. SEE STRIPING AND SIGNAGE PLANS FOR (P) STRIPING AND SIGNAGE IMPROVEMENTS.
3. SEE UTILITY PLANS FOR (P) UTILITY RELOCATIONS AND IMPROVEMENTS NOT SHOWN ON THIS SHEET.
4. SEE DETAIL SHEET C-603 FOR TYPICAL STREET SECTIONS.
5. SEE LANDSCAPE PLANS FOR (P) SITE GRADING.
6. SIDEWALK AT PROPOSED DRIVEWAY AND MOUNTABLE CURB LOCATIONS TO BE 6" THICK.
7. CONSTRUCT JOINTS PER SPPWC 112-2 AND APPLICABLE STD PLANS.
8. CONSTRUCT T-SECTION PER CITY STD PLAN S-432-1 (T = $\frac{3}{4}$"), CROWN SECTION SLOPE SHALL NOT EXCEED 5% AT THE PROPOSED CROSSWALK LOCATION.
9. SIDEWALK CROSS SLOPES SHALL NOT EXCEED 2%.
10. REMOVE AND RECONSTUCT EXISTING LIGHT POLES AT THE NEW LOCATIONS SHOWN, INCLUDING THE RECONSTRUCTION OF THE EXISTING CONDUIT AND WIRING AS NEEDED. CONTRACTOR SHALL COORDINATE WITH THE CITY'S BUREAU OF STREET LIGHTING (BSL) PRIOR TO PERFORMING THE WORK. CONTRACTOR SHALL VERIFY THE EXISTING POLE DIMENSIONS AND MATERIALS ARE CONSISTENT WITH THE DETAILS.

LINE TABLE

LINE #	LENGTH	DIRECTION
L1	276.28'	N10° 31' 29"W
L2	14.50'	S79° 28' 21"W
L3	35.12'	N10° 31' 32"W
L4	20.00'	N10° 31' 40"W
L5	153.59'	N10° 31' 40"W
L6	16.23'	N69° 51' 12"E
L7	264.03'	N10° 31' 39"W

LINE TABLE

LINE #	LENGTH	DIRECTION
L8	235.97'	N10° 31' 57"W
L9	200.00'	N69° 51' 12"E
L10	10.00'	N10° 31' 39"W
L11	102.15'	N10° 31' 39"W

CURVE TABLE

CURVE #	RADIUS	DELTA	LENGTH	TANGENT
C1	4.50'	090°00'00"	7.07'	4.50'
C2	5.00'	059°59'34"	5.24'	2.89'
C3	5.00'	059°59'34"	5.24'	2.89'
C4	5.00'	059°59'50"	5.24'	2.89'
C5	5.00'	059°59'50"	5.24'	2.89'
C6	20.00'	080°22'52"	28.06'	16.90'
C7	10.33'	037°52'47"	6.83'	3.55'

CURVE TABLE

CURVE #	RADIUS	DELTA	LENGTH	TANGENT
C8	10.33'	037°52'47"	6.83'	3.55'
C10	10.00'	039°11'42"	6.84'	3.56'
C11	10.00'	039°11'42"	6.84'	3.56'

POINT TABLE

POINT #	NORTHING	EASTING
1001	1836243.78	6493150.14

SCALE: 1"=20'

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PLANS PREPARED BY: TETRA TECH, INC.
707 WILSHIRE BLVD. 23RD FLR.
LOS ANGELES, CA 90017
PHONE: (213) 239-8866

CITY OF LOS ANGELES — DEPARTMENT OF PUBLIC WORKS — BUREAU OF ENGINEERING

VERT. CONTROL: BM 12-04070, 1929 (NGVD29) + 1985 ADJUSTMENT
HORIZ. CONTROL: GPS; PID AE 1704, EPOCH 1991.35

SHEET TITLE: STREET IMPROVEMENTS MISSION ROAD
PROJECT: SIXTH STREET PARK, ARTS AND RIVER CONNECTIVITY IMPROVEMENTS (PARC)
ADDRESS: SIXTH STREET OVER THE LOS ANGELES RIVER

GARY LEE MOORE, P.E., ENV SP — CITY ENGINEER
DESIGN GROUP
ENGINEER: JUSTIN SMITH — LIC. NO. C-85736 — DATE: 07/11/22
DESIGNED BY: JUSTIN SMITH
DRAWN BY: TYLER PARRA
CHECKED BY: NATE SCHREINER
APPROVED BY: JASON L. FUSSEL

THIS PLAN WAS ELECTRONICALLY SIGNED AND STAMPED
REGISTERED PROFESSIONAL ENGINEER — JUSTIN T. SMITH — No. 85736 — EXP. 9-30-22 — CIVIL — STATE OF CALIFORNIA

NO. | REVISIONS | DATE | BY

INDEX NO.

BUILDING NO.

ENGINEERING — CITY OF LOS ANGELES

WORK ORDER NO. E700235D
FILE NO. --
DRAWING NO. C-501
SHEET 57 OF 295 SHEETS

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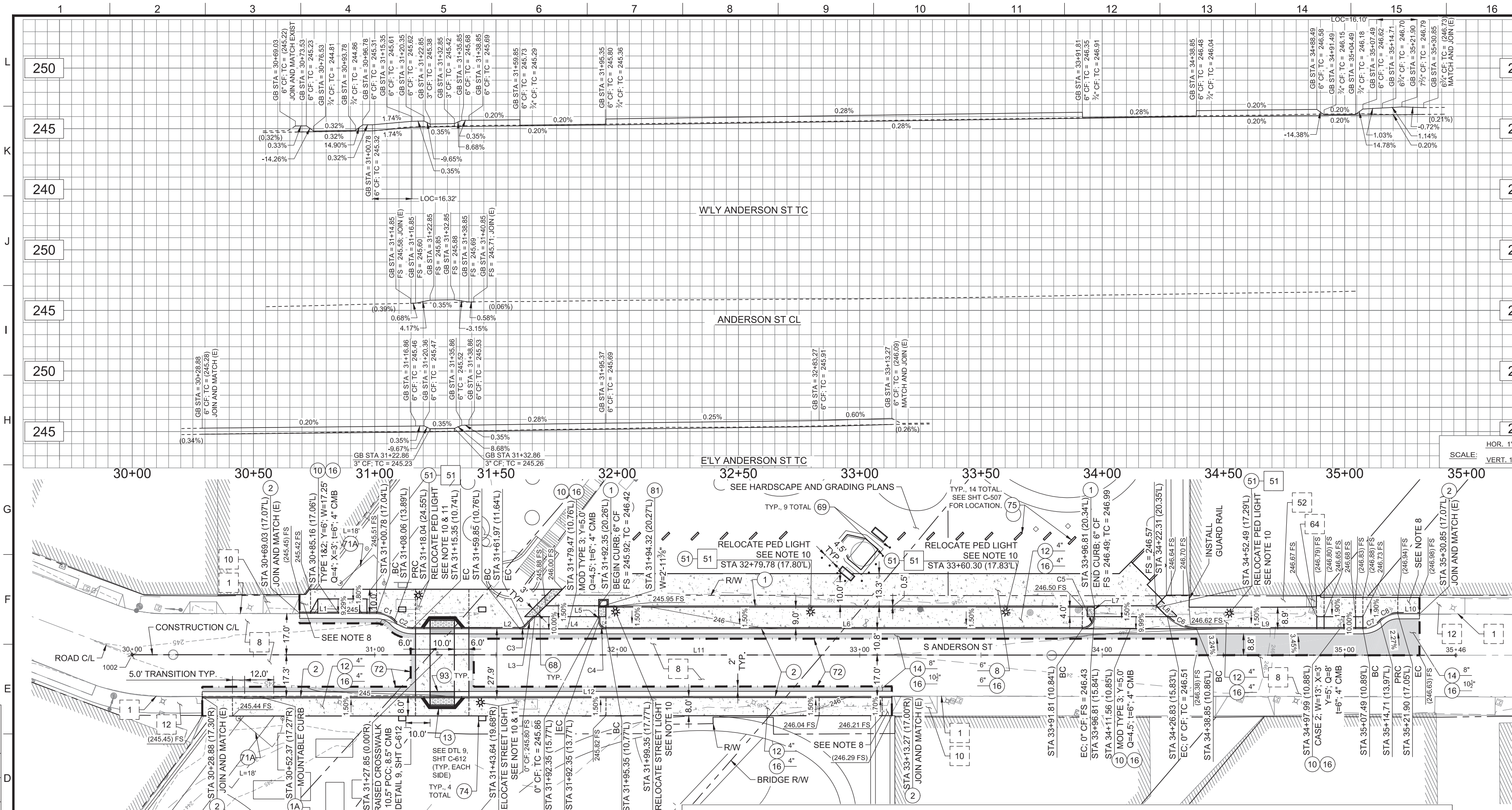

LINE TABLE		
LINE #	LENGTH	DIRECTION
L1	31.75	N20° 05' 05.96"W
L2	44.50	N20° 09' 48.75"W
L3	5.83	N65° 09' 48.60"W
L4	35.50	N20° 09' 48.75"W
L5	2.00	N69° 50' 11.25"E
L6	196.46	N20° 09' 48.75"W
L7	4.50	S69° 50' 11.25"W
L8	6.39	N24° 50' 11.25"E
L9	68.64	N20° 09' 48.75"W
L10	8.95	N20° 18' 07.11"W
L11	545.85	N20° 08' 32.64"W
L12	284.39	N20° 12' 05.72"W

CURVE TABLE			
CURVE #	LENGTH	RADIUS	DELTA
C1	8.15	10.00	46.70
C2	8.16	10.00	46.78
C3	2.36	3.00	45.00
C4	4.71	3.00	90.00
C5	7.85	5.00	90.00
C6	13.35	17.00	45.00
C7	8.06	10.00	46.19
C8	8.04	10.00	46.05

POINT TABLE

PT#	NORTHING	EASTING
1002	1835948.31	6494046.03

SCALE: 1"=20'

GENERAL NOTES:

1. SEE DEMOLITION PLANS FOR REMOVALS, RELOCATIONS, OR PROTECTIONS OF (E) FEATURES.
2. SEE STRIPING AND SIGNAGE PLANS FOR (P) STRIPING AND SIGNAGE IMPROVEMENTS.
3. SEE UTILITY PLANS FOR (P) UTILITY RELOCATIONS NOT SHOWN ON THIS SHEET.
4. SEE DETAIL SHEET C-603 FOR TYPICAL STREET SECTIONS.
5. SEE LANDSCAPE PLANS FOR (P) SITE GRADING.
6. SIDEWALK AT PROPOSED DRIVEWAY AND MOUNTABLE CURB LOCATIONS TO BE 6" THICK.
7. CONSTRUCT JOINTS PER SPPWC 112-2 AND APPLICABLE STD PLANS.
8. RECONSTRUCT SIDEWALK PANEL TO TRANSITION TO EXISTING SIDEWALK WITH NON-ADA COMPLIANT CROSS SLOPES.
9. SIDEWALK CROSS SLOPES SHALL NOT EXCEED 2%.
10. REMOVE AND RECONSTUCT EXISTING LIGHT POLES AT THE NEW LOCATIONS SHOWN, INCLUDING THE RECONSTRUCTION OF THE EXISTING CONDUIT AND WIRING AS NEEDED. CONTRACTOR SHALL COORDINATE WITH THE CITY'S BUREAU OF STREET LIGHTING (BSL) PRIOR TO PERFORMING THE WORK. PEDESTRIAN LIGHT FOOTINGS SHALL BE RECONSTRUCTED PER DTL 4, SHT C-608, WHILE STREET LIGHT FOOTINGS SHALL BE RECONSTRUCTED PER CALTRANS RSP ES-6A. CONTRACTOR SHALL VERIFY THE EXISTING POLE DIMENSIONS AND MATERIALS ARE CONSISTENT WITH THE DETAILS.
11. CONTRACTOR SHALL UPGRADE THE LIGHT POLE FIXTURE HEAD. NEW FIXTURE HEAD REQUIREMENTS TO BE PROVIDED BY BSL.

LEGEND OF CONSTRUCTION NOTES

CONSTRUCT — REMOVE — REMODEL — WORK BY OTHERS — EXISTING-PROTECT IN PLACE — REMOVE & RECONSTRUCT

NO.	CONSTRUCTION ITEM/NOTE	STANDARD PLAN	NO.	CONSTRUCTION ITEM/NOTE	STANDARD PLAN
1	TYPE A CONCRETE CURB	S-410-2	68	DETECTABLE WARNING SURFACE	DTL 8, SHT C-601
1A	TYPE D CONCRETE CURB	S-410-2	69	FIXED BOLLARD	DTL 2, SHT C-601
2	TYPE C INTEGRAL CURB & GUTTER	S-410-2	71A	SWING GATE	DTL 1, SHT C-611
8	CONCRETE PAVEMENT	DTL 3 & 7, SHT C-600	72	SAWCUT LINE; JOIN EXISTING	DTL 2, 5, 6, SHT C-600
10	CONCRETE DRIVEWAY	S-440-4	73	RAISED CROSSWALK	BOE DTL 600
12	CONCRETE WALK	S-444-0; DTL 4, SHT C-600	74	HISTORIC LIGHT POLE	DTL 7, SHT C-601
14	ASPHALT CONCRETE PAVEMENT	DTL 1, SHT C-600	75	WHEEL STOP	DTL 4, SHT C-601
16	UNTREATED BASE MATERIAL	SEE PVMT DTL	81	CURBSIDE GRATING BASIN (CGB)	SPPWC 303-3
28	CURB AND SIDEWALK JOINT	SPPWC 112-2	93	RAISED CROSSWALK CULVERT WITH STEEL PLATE COVER	DTL 3, SHT C-614
31	PIPE HANDRAIL	S-463-3			
51	LIGHT POLE	DTL 4, SHT C-608 / CALTRANS RSP ES-6A			
52	ELEVATED LANDING	-			
64	STAIRS	-			

LEGEND:

PORTLAND CEMENT CONC. SIDEWALK/PVMT — AC PAVEMENT — SAWCUT

PLANS PREPARED BY: TETRA TECH, INC.
707 WILSHIRE BLVD, 23RD FLR.
LOS ANGELES, CA 90017
PHONE: (213) 239-8866

CITY OF LOS ANGELES — DEPARTMENT OF PUBLIC WORKS — BUREAU OF ENGINEERING

VERT. CONTROL: BM 12-04070, 1929 (NGVD29) • 1985 ADJUSTMENT
HORIZ. CONTROL: GPS; PID AE 1704, EPOCH 1991.35

SHEET TITLE: STREET IMPROVEMENTS ANDERSON STREET
PROJECT: SIXTH STREET PARK, ARTS AND RIVER CONNECTIVITY IMPROVEMENTS (PARC)
ADDRESS: SIXTH STREET OVER THE LOS ANGELES RIVER

GARY LEE MOORE, P.E., ENV SP — CITY ENGINEER
DESIGN GROUP
ENGINEER: JUSTIN SMITH — LIC. NO. C-85736 — DATE: 07/11/22
DESIGNED BY: JUSTIN SMITH
DRAWN BY: DAVID LOPEZ
CHECKED BY: NATE SCHREINER
APPROVED BY: JASON L. FUSSEL

REGISTERED PROFESSIONAL ENGINEER — JUSTIN T. SMITH — No. 85736 — EXP. 9-30-22 — CIVIL — STATE OF CALIFORNIA
THIS PLAN WAS ELECTRONICALLY SIGNED AND STAMPED.

NO. | REVISIONS | DATE | BY
INDEX NO. — BUILDING NO.

WORK ORDER NO. E700235D
FILE NO. --
DRAWING NO. C-502
SHEET 58 OF 295 SHEETS

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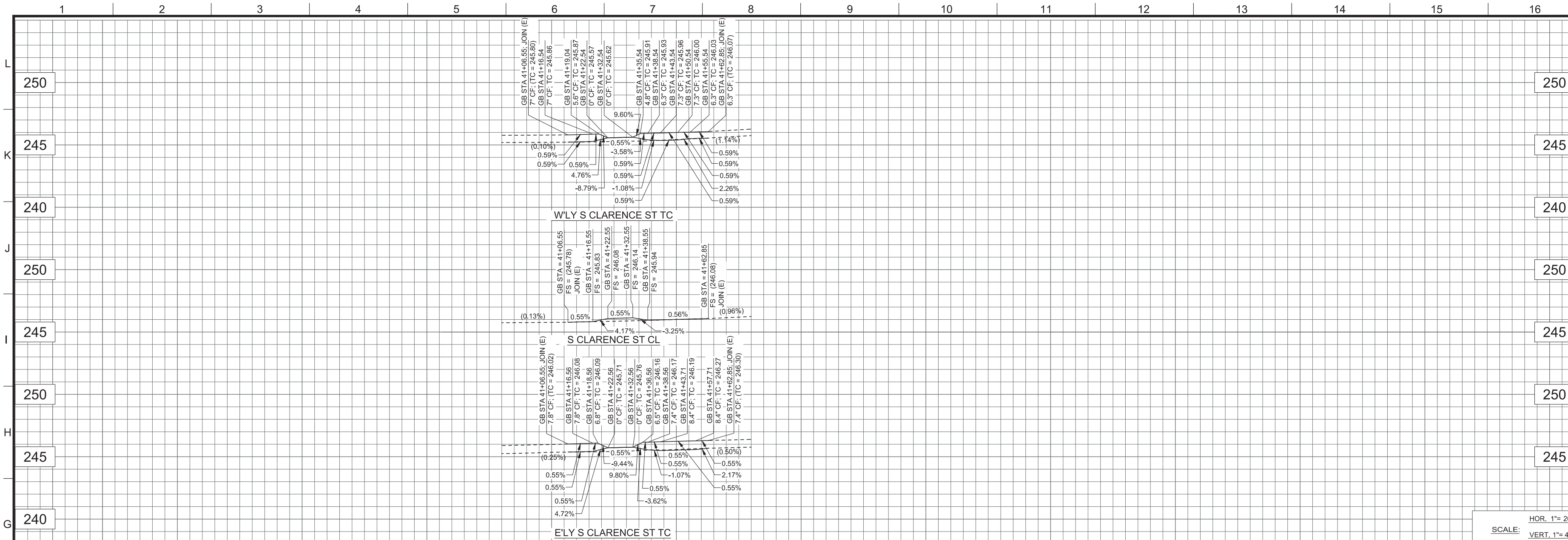
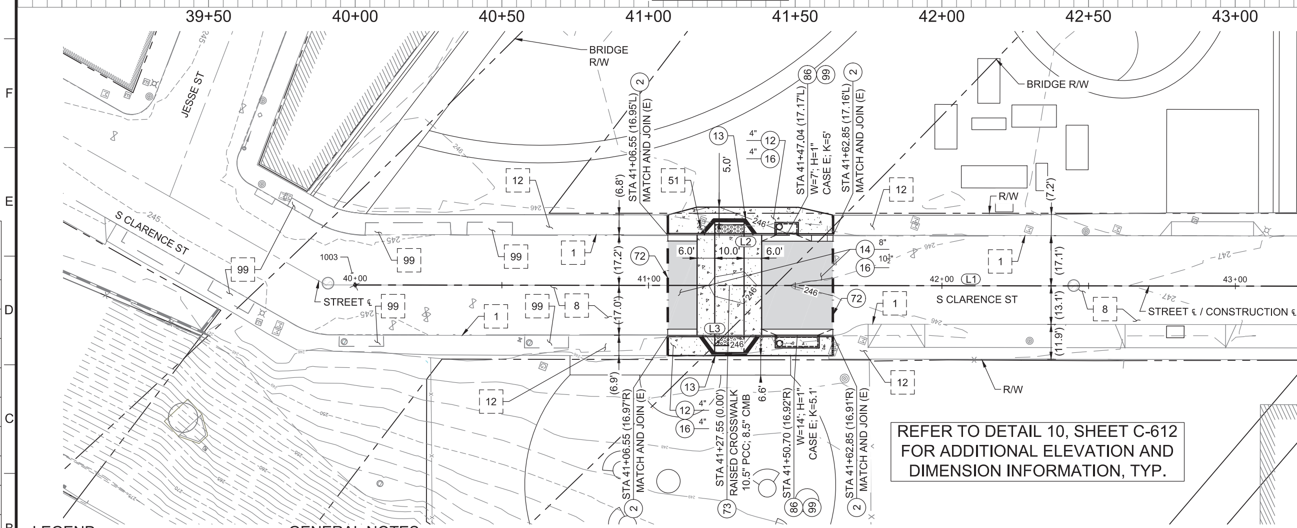
REVISION DATES (DESIGN STAGE ONLY)

Sheet Version 3.0

BID SET - NOT FOR CONSTRUCTION





LEGEND OF CONSTRUCTION NOTES

CONSTRUCT — REMOVE — REMODEL
WORK BY OTHERS — EXISTING-PROTECT IN PLACE — REMOVE & RECONSTRUCT

NO.	CONSTRUCTION ITEM/NOTE	STANDARD PLAN
1	TYPE A CONCRETE CURB	S-410-2
2	TYPE C INTEGRAL CURB & GUTTER	S-410-2
8	CONCRETE PAVEMENT	DTL 3 & 7, SHT C-600
10	CONCRETE DRIVEWAY	S-440-4
12	CONCRETE WALK	S-444-0; DTL 4, SHT C-600
13	CURB RAMP	S-442-6
14	ASPHALT CONCRETE PAVEMENT	DTL 1, SHT C-600
16	UNTREATED BASE MATERIAL	SEE PVMT DTL
28	CURB AND SIDEWALK JOINT	SPPWC 112-2
51	LIGHT POLE	-
72	SAWCUT LINE; JOIN EXISTING	DTL 2, 5, 6, SHT C-600
73	RAISED CROSSWALK	BOE DTL 600
86	WARPED GUTTER AT CATCH BASIN	SPPWC 313-4
99	SIDE OPENING CATCH BASIN	SPPWC 300-4

REFER TO DETAIL 10, SHEET C-612 FOR ADDITIONAL ELEVATION AND DIMENSION INFORMATION, TYP.

LINE TABLE

LINE #	LENGTH	DIRECTION
L1	300.00'	N20° 08' 03.75"W
L2	56.30'	N20° 06' 41.76"W
L3	56.30'	N20° 11' 40.27"W

POINT TABLE

PT#	NORTHING	EASTING
1003	1835924.42	6494374.50

LEGEND:

- PORTLAND CEMENT CONC.
- ASPHALT CONC. PAVEMENT
- SAWCUT

GENERAL NOTES:

1. SEE DEMOLITION PLANS FOR REMOVALS, RELOCATIONS, OR PROTECTIONS OF (E) FEATURES.
2. SEE STRIPING AND SIGNAGE PLANS FOR (P) STRIPING AND SIGNAGE IMPROVEMENTS.
3. SEE UTILITY PLANS FOR (P) UTILITY RELOCATIONS AND IMPROVEMENTS NOT SHOWN ON THIS SHEET.
4. SEE DETAIL SHEET C-603 FOR TYPICAL STREET SECTIONS.
5. SEE LANDSCAPE PLANS FOR (P) SITE GRADING.
6. SIDEWALK AT PROPOSED DRIVEWAY LOCATIONS TO BE 6" THICK.
7. PROPOSED WORK AREA OVERLAPS WITH THE SEPARATE VIADUCT AND ATP-2 IMPROVEMENTS. PARC CONTRACTOR SHALL VERIFY EXISTING FIELD CONDITIONS AND NOTIFY THE ENGINEER OF DISCREPANCIES.
8. CONSTRUCT JOINTS PER SPPWC 112-2 AND APPLICABLE STD PLANS.

SCALE: 1"=20'

PLANS PREPARED BY: TETRA TECH, INC.
707 WILSHIRE BLVD, 23RD FLR.
LOS ANGELES, CA 90017
PHONE: (213) 239-8866

CITY OF LOS ANGELES — DEPARTMENT OF PUBLIC WORKS — BUREAU OF ENGINEERING

VERT. CONTROL: BM 12-04070, 1929 (NGVD29) + 1985 ADJUSTMENT
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PROJECT: SIXTH STREET PARK, ARTS AND RIVER CONNECTIVITY IMPROVEMENTS (PARC)
ADDRESS: SIXTH STREET OVER THE LOS ANGELES RIVER

GARY LEE MOORE, P.E., ENV SP — CITY ENGINEER
DESIGN GROUP
ENGINEER: JUSTIN SMITH — LIC. NO. C-85736 — DATE: 07/11/22
DESIGNED BY: JUSTIN SMITH
DRAWN BY: DAVID LOPEZ
CHECKED BY: NATE SCHREINER
APPROVED BY: JASON L. FUSSEL

THIS PLAN WAS ELECTRONICALLY SIGNED AND STAMPED
REGISTERED PROFESSIONAL ENGINEER — JUSTIN T. SMITH — No. 85736 — EXP. 9-30-22 — CIVIL — STATE OF CALIFORNIA

NO. | REVISIONS: | DATE: | BY:
INDEX NO.
BUILDING NO.

WORK ORDER NO. E700235D
FILE NO. --
DRAWING NO. C-503
SHEET 59 OF 295 SHEETS

REVISION DATES (DESIGN STAGE ONLY)

Sheet Version 3.0

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BID SET - NOT FOR CONSTRUCTION

WORKSITE TRAFFIC CONTROL PLAN NOTES

1. THE CONTRACTOR SHALL BE RESPONSIBLE FOR LABOR AND MATERIAL INVOLVED IN THE REMOVAL, INSTALLATION, AND MAINTENANCE OF ALL STRIPING, PAVEMENT MARKINGS, SIGNS, BARRICADES, DELINEATORS, ETC., SHOWN ON THESE PLANS AND AS CONSTRUCTION STAGING NECESSITATES. STRIPING AND PAVEMENT MARKINGS SHALL BE REMOVED BY WET SANDBLASTING/GRINDING IN ACCORDANCE WITH THE CITY OF LOS ANGELES DEPARTMENT OF TRANSPORTATION (LADOT) SPECIFICATION NO. 79-016-10. PAINTING THE EXISTING STRIPING OVER WITH BLACK PAINT IS NOT PERMITTED. TEMPORARY REFLECTIVE PAVEMENT MARKERS (SEE LADOT STANDARD PLAN S-453.0) SHALL BE MAINTAINED BY THE CONTRACTOR ADJACENT TO THE SCAR OF THE SANDBLASTED CENTERLINE OR TAPED-OVER CENTERLINE. THERMOPLASTIC SHALL BE USED FOR ALL ROUGH AND UNEVEN SURFACES AND AS REQUIRED BY LADOT ENGINEER. PAINT MAY BE USED ON SMOOTH SURFACES. DETOUR TAPE IS NOT PERMITTED.
2. CONTRACTOR SHALL CONTACT THE LADOT TEMPORARY TRAFFIC MANAGMENT SECTION'S JON.PALOS@LACITY.ORG AT LEAST 15 WORKING DAYS (TO INSPECT MARK OUT) PRIOR TO THE INSTALLATION OF ANY TEMPORARY STRIPING FOR ALL CONSTRUCTION STAGES. DEPARTMENT OF TRANSPORTATION RESERVES THE RIGHT TO OBSERVE THE TRAFFIC CONTROL PLANS IN USE AND TO MAKE NECESSARY CHANGES AS FIELD CONDITIONS WARRANT. ANY CHANGES SHALL SUPERSEDE THESE PLANS. THE CONTRACTOR SHALL BE RESPONSIBLE FOR THE PLACEMENT OF ANY ADDITIONAL TRAFFIC CONTROL DEVICES NECESSARY TO ENSURE PUBLIC SAFETY AT ALL TIMES DURING CONSTRUCTION.
3. ALL CONSTRUCTION RELATED WARNING SIGNS SHALL BE IN BLACK LEGEND WITH ORANGE BACKGROUND AND IN CONFORMANCE WITH THE CALIFORNIA MANUAL ON UNIFORM TRAFFIC CONTROL DEVICES (CA M.U.T.C.D.) LATEST EDITION.
4. THE STRIPING AND SIGNING SHOWN FOR REMOVAL ON THESE PLANS MAY BE DIFFERENT THAN WHAT EXISTS AT TIME OF INSTALLATION OF A CONSTRUCTION STAGE. THE CONTRACTOR SHALL REMOVE ALL CONFLICTING SIGNING AND STRIPING, WHETHER OR NOT IT IS DEPICTED ACCURATELY ON THESE PLANS.
5. CONTRACTOR SHALL NOTIFY THE METROPOLITAN TRANSPORTATION AUTHORITY (METRO) AT (213) 922-4632 OR ANY OTHER AFFECTED TRANSIT SERVICES AT LEAST FIVE WORKING DAYS PRIOR TO CONSTRUCTION.
6. ALL TRAFFIC CONTROL DEVICES SHALL BE KEPT IN THEIR PROPER POSITION AT ALL TIMES, AND SHALL BE REPAIRED, REPLACED OR CLEANED AS NECESSARY TO PRESERVE THEIR APPEARANCE AND CONTINUITY.
7. CONTRACTORS SHALL PROVIDE FLAGGERS AS DEEMED NECESSARY BY CITY. A FLAGGER SHALL USE ONLY THE APPROVED OCTAGONAL STOP/ SLOW PADDLE, SHALL WEAR AN ORANGE SAFETY VEST (PADDLE AND VEST MUST BE REFLECTORIZED FOR NIGHT WORK) AND HARD HAT, AS REQUIRED BY THE WATCH MANUAL, AND MUST BE PROPERLY TRAINED BY THE CONTRACTOR IN PERFORMING THE WORK SAFELY. APPROPRIATE ADVANCE SIGNS MUST ALSO BE INSTALLED, PER THE WATCH MANUAL.
8. ALL TEMPORARY TRAFFIC CONTROL DEVICES SHALL BE REMOVED FOLLOWING COMPLETION OF EACH CONSTRUCTION STAGE AND THE PERMANENT TRAFFIC CONTROL DEVICES SHALL BE RESTORED BY THE CONTRACTOR UPON REMOVAL OF DETOUR STRIPING.
9. ALL SIGNS, DELINEATORS, BARRICADES, ETC., SHALL CONFORM TO THE CALIFORNIA MUTCD (LATEST EDITION), AND THE BROWN BOOK.
10. CONTRACTOR SHALL NOTIFY LADOT'S SIGNAL MAINTENANCE SUPERVISOR AT (213) 485-7721 FIVE (5) WORKING DAYS PRIOR TO ANY EXCAVATION OR CONSTRUCTION WITHIN 10-FEET OF EXISTING TRAFFIC SIGNAL DETECTOR LOOPS, CONDUIT, INTERCONNECTS, OR ATSAC FIBER OPTIC CABLE.
11. ANY DAMAGE TO TRAFFIC SIGNAL DETECTOR LOOPS, CONDUITS, INTERCONNECTS, OR FIBER OPTIC CABLE SHALL BE REPAIRED IMMEDIATELY BY THE CONTRACTOR AT THEIR OWN EXPENSE. DELAYS IN REPAIR OF INTERCONNECT OR ATSAC FIBER OPTIC CABLE WILL REQUIRE THE PAYMENT OF LIQUIDATION DAMAGES TO THE CITY OF LOS ANGELES DEPARTMENT OF TRANSPORTATION. IMMEDIATELY NOTIFY LADOT SIGNAL REPAIR PERSONNEL AT (213) 485-7721 OF ANY DAMAGES.
12. THERE SHALL BE NO STORAGE OF CONSTRUCTION MATERIALS OR EQUIPMENT OUTSIDE THE DESIGNATED WORK AREA AS INDICATED IN THE WTCP. STORAGE OF CONSTRUCTION MATERIALS OR EQUIPMENT WITHIN THE DESIGNATED AREA SHALL BE DONE IN A MANNER NOT TO CREATE VISIBILITY OBSTRUCTIONS TO THE MOTORING PUBLIC.
13. CONTRACTOR SHALL MAINTAIN ACCESS TO ALL FUNCTIONAL DRIVEWAYS AT ALL TIMES AND SHALL COORDINATE ANY CLOSURE OR ACCESS RESTRICTION TO DRIVEWAYS WITH RESIDENTS, BUSINESSES, AND ALL OTHER STAKEHOLDERS. IF CONSTRUCTION NECESSITATES ANY CLOSURE OR ACCESS RESTRICTION, CONTRACTOR SHALL NOTIFY THE CITY AND SHALL REVISE WORKSITE TRAFFIC CONTROL PLANS TO CHANGE SET UP AND ALLOW ACCESS TO A DRIVEWAY THAT IS SHOWN BLOCKED. REVISED TRAFFIC CONTROL PLANS SHALL BE PREPARED PER LADOT STANDARDS, SIGNED AND SEALED BY REGISTERED TRAFFIC AND CIVIL ENGINEERS AND SUBMITTED TO LADOT FOR APPROVAL.
14. CONTRACTOR SHALL PERFORM WORK IN ONLY ONE STAGE AT A TIME. THE CONTRACTOR SHALL ONLY UTILIZE THAT PORTION OF THE DESIGNATED "WORK AREA" WHICH IS NEEDED FOR CONSTRUCTION AT ANY GIVEN TIME.
15. THE CROSSWALKS ACROSS THREE LEGS OF ANY SIGNALIZED INTERSECTION SHALL BE MAINTAINED AT ALL TIMES. "NO PED CROSSING" (R9-3) SIGNS SHALL BE INSTALLED WHEN A PAINTED CROSSWALK IS UNAVAILABLE FOR USE DUE TO CONSTRUCTION AND ALL AFFECTED PEDESTRIAN SIGNAL HEADS SHALL BE COVERED/REMOVED PER CALIFORNIA MUTCD.
16. CONTRACTOR SHALL INSTALL R3-18 (NO LEFT AND NO U-TURN) SIGNS AT INTERSECTIONS WHERE THE LEFT TURN LANE HAS BEEN CLOSED FOR CONSTRUCTION. SIGNS SHOULD BE INSTALLED ON MASTARMS AND FAR LEFT OF THE INTERSECTION OR AT LOCATIONS WHERE THEY WILL BE CLEARLY VISIBLE BY THE THRU TRAFFIC.
17. FOR OTHER REQUIREMENTS RELATED TO TRAFFIC CONTROL PLANS AND WORK AREA MAINTENANCE, THE CONTRACTOR SHALL FOLLOW THE CALIFORNIA MUTCD (LATEST EDITION) AND WATCH MANUAL (LATEST EDITION) ADOPTED BY THE CITY, AND ALL RELATED SECTIONS OF THE STANDARD SPECIFICATIONS FOR PUBLIC WORKS CONSTRUCTION, INCLUDING SECTION 7-10 "PUBLIC CONVENIENCE AND SAFETY," AND 302-4.4 "PUBLIC CONVENIENCE AND TRAFFIC CONTROL."
18. WHEN DESIGNATED ON THESE PLANS, THE CONTRACTOR SHALL FURNISH AND INSTALL METAL AND REFLECTORIZED "TOW AWAY NO STOPPING ANY TIME" "T.A.N.S.A.T." SIGNS PER DEPARTMENT SPECIFICATIONS. IN ADDITION, THE CONTRACTOR SHALL NOTIFY LADOT'S SPECIAL TRAFFIC CONTROLS OFFICE AT (213) 485-2298 AT LEAST 7 WORKING DAYS IN ADVANCE, OF THE INSTALLATION OF T.A.N.S.A.T. SIGNS. THE INSTALLATION OF T.A.N.S.A.T. SIGNS AT PARKING METER ZONES SHALL ALSO INCLUDE REMOVING METER HEADS AND THE ASSOCIATED PARKING RESTRICTION.
19. PRIOR TO THE REMOVAL OF AN EXISTING CURB/SIDEWALK IN A PARKING METER ZONE CONTRACTOR SHALL CONTACT LADOT PARKING METER SUPERVISOR AT (213) 485-4230 FOR METER HEAD REMOVAL.
20. CONTRACTOR SHALL BE RESPONSIBLE FOR THE RESTORATION OF THE STRIPING AND PAVEMENT MARKINGS TO THE ORIGINAL CONDITION USING THERMOPLASTIC MATERIALS, UNLESS OTHERWISE INSTRUCTED BY LADOT. LADOT WILL INSPECT AND APPROVE ANY CONTRACTOR MARKOUT BEFORE THE FINAL INSTALLATION OF STRIPING BY THE CONTRACTOR. NOTIFY JON PALOS FROM THE LADOT TEMPORARY TRAFFIC MANAGMENT SECTION FIFTEEN (15) WORKING DAYS PRIOR TO PROJECT COMPLETION DATE AT JON.PALOS@LACITY.ORG.
21. LOCATION AND SPACING OF TEMPORARY SIGNS AND DELINEATORS SHALL CONFORM TO THE CALIFORNIA MUTCD (LATEST EDITION) AND AS DIRECTED BY THE LADOT ENGINEER.
22. CONTRACTOR SHALL PROVIDE CHANGEABLE MESSAGE SIGNS/FLASHING ARROW BOARDS AND CONES/BARRICADES AS FIELD CONDITIONS/DETOURS WARRANT AND AS DEEMED NECESSARY BY LADOT, EVEN IF THEY ARE NOT SHOWN ON THESE PLANS.
23. UNLESS K-RAILS AND CRASH CUSHIONS ARE INSTALLED, CONTRACTOR SHALL PROVIDE MIN. 5' SHOULDER FROM ANY OPEN EXCAVATION PER CALIFORNIA MUTCD.
24. ALL K-RAIL ENDS, PLATFORMS AND FIXED OBJECTS SHALL BE PROTECTED BY CRASH CUSHIONS OR BY A QUADGUARD SYSTEM, UNLESS THEY ARE PLACED 15' AWAY FROM EDGE OF TRAVEL WAY. FOR A 20' K-RAIL MAX. HORIZONTAL DISTANCE DISPLACED CAN NOT EXCEED 5'/K-RAIL, OR A TAPER RATE SHALL NOT EXCEED 1/4.
25. NOTIFY FILM LA (JOSH MINGO) AT (213)977-8600 AT LEAST (5) WORKING DAYS PRIOR TO CONSTRUCTION TO COORDINATE WITH FILMING ACTIVITIES.
26. ALL TEMPORARY SIGNAGE INSTALLED ADJACENT TO PEDESTRIAN TRAVEL WAY MUST ALLOW FOR ADA-COMPLIANT PASSAGEWAYS.
27. CONCRETE K-RAIL SECTIONS SHALL BE CONTINUOUSLY CONNECTED. IN AREAS WITH LESS THAN 2-FEET OF EXCAVATION, SECURE K-RAIL TO PAVEMENT PER CALTRANS SPECIFICATIONS.
28. ANY CHANGES TO WORK AREAS, WORK HOURS, AND/OR APPROVED PLANS SHALL BE SUBMITTED TO LADOT FOR REVIEW AND APPROVAL.
29. THE CONTRACTOR SHALL BE RESPONSIBLE FOR STRIPING (PROPOSED AND EXISTING) SHOWN ON THESE PLANS TO BE IN GOOD CONDITION AND VISIBLE. THE CONTRACTOR SHALL REPAINT ANY FADED EXISTING STRIPING AS DIRECTED BY THE LADOT ENGINEER.
30. THE CONTRACTOR SHALL BE RESPONSIBLE FOR REPLACING ANY MISSING OR DAMAGED SIGNS (DUE TO CONSTRUCTION) ACCORDING TO THE LATEST LADOT SPECIFICATIONS.
31. LADOT HAS JURISDICTION FOR STRIPING/TRAFFIC CONTROL DEVICES WITHIN CITY RIGHT OF WAY. CONTRACTOR SHALL OBTAIN APPROVAL FROM CALTRANS FOR STRIPING/TRAFFIC CONTROL DEVICES WITHIN OTHER CITIES, COUNTY, AND/OR STATE RIGHT OF WAY, AND FROM PROPERTY OWNERS FOR STRIPING/TRAFFIC CONTROL DEVICES WITHIN ANY PRIVATE PROPERTY.
32. IMPLEMENTATION OF THESE PLANS SHALL BE PERFORMED WITHIN ONE WORK PERIOD ON SATURDAY (8AM-6PM), OR FRIDAY 9PM THRU MONDAY 6AM (55 HOUR-SHIFT), UNLESS OTHERWISE APPROVED BY THE CITY OF LOS ANGELES DEPARTMENT OF PUBLIC WORKS.
33. ALL STREET CLOSURES MUST BE APPROVED BY THE BOARD OF PUBLIC WORKS (OR THEIR DESIGNEE). AN EXEMPTION OF THE MAYOR'S DIRECTIVE #2 (RUSH HOUR CONSTRUCTION ON ANY CITY STREETS) MUST BE APPROVED BY THE BUREAU OF ENGINEERING FOR ALL PEAK HOUR LANE CLOSURES ON ARTERIAL STREETS.

RESTORATION STRIPING NOTES

1. THE CONTRACTOR SHALL BE RESPONSIBLE FOR LABOR AND MATERIAL INVOLVED IN THE MARKOUT, AND INSTALLATION OF ALL RESTORATION STRIPING/PAVEMENT MARKINGS. THE CONTRACTOR SHALL ALSO BE RESPONSIBLE FOR REMOVAL OF ALL CONFLICTING DETOUR STRIPING, SIGNING, AND OTHER DETOUR-RELATED TRAFFIC CONTROL DEVICES PRIOR TO THE INSTALLATION OF THE FINAL STRIPING. IF THERE IS NO RESTORATION PLAN IN THIS PACKAGE, CONTRACTOR SHALL CONTACT LADOT GEOMETRIC DESIGN FOR THE LATEST STRIPING PLANS.
2. THE CONTRACTOR SHALL BE RESPONSIBLE FOR THE REPAINTING OF ALL EXISTING STRIPING THAT HAS BEEN DAMAGED DURING THE CONSTRUCTION PROCESS.
3. MARKOUT SHALL BE BY HEAVY PAINT BRUSH MARKINGS OVER A PULLED ROPE IN THE RESPECTIVE WHITE AND YELLOW COLORS OF THE PROPOSED STRIPING. STRIPING AND PAVEMENT MARKINGS SHALL BE IN HOT APPLIED ALKYD THERMOPLASTIC IN ACCORDANCE WITH LADOT SPECIFICATION NOS. 51-005-10 AND 76-012-15. PRIMER AND SEALERS ARE REQUIRED AND SHALL CONFORM TO LADOT SPECIFICATION NO. 76-012-15.
4. THE CONTRACTOR SHALL CONTACT JON PALOS FROM THE LADOT MAJOR CONSTRUCTION TEMPORARY TRAFFIC MANAGEMENT SECTION AT JON.PALOS@LACITY.ORG AT LEAST 15 WORKING DAYS BEFORE BEGINNING MARKOUT. THE CONTRACTOR SHALL CORRECT ALL ERRORS IN MARKOUT REQUESTED BY LADOT. THE INSTALLATION OF THERMOPLASTIC STRIPING MAY PROCEED ONLY AFTER APPROVAL OF MARKOUT BY THE LADOT TEMPORARY TRAFFIC MANAGEMENT SECTION THAT CAN BE CONTACTED AT JON.PALOS@LACITY.ORG.
5. TEMPORARY REFLECTIVE RAISED PAVEMENT MARKERS SHALL BE MAINTAINED ADJACENT TO ANY TEMPORARY CENTERLINE, MARKOUT CENTERLINE OR SCAR OF A SANDBLASTED CENTERLINE, AS APPLICABLE, AS PER LADOT STANDARD PLAN NO. S-453.0.

TEMPORARY STRIPING NOTES

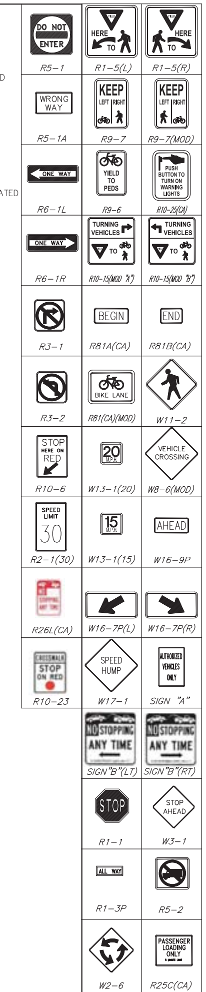
1. REMOVE ALL CONFLICTING STRIPING PRIOR TO INSTALLATION OF WTCP.
2. WHEN REMOVAL IS REQUIRED BY CONSTRUCTION, CROSSWALK MARKINGS AND PEDESTRIAN SIGNAL HEADS SHALL BE COVERED SIMULTANEOUSLY.
3. WHEN REQUIRED BY CONSTRUCTION, THE CONTRACTOR SHALL MAKE ARRANGEMENTS WITH LACMTA, OR THE APPROPRIATE TRANSIT OPERATION, FOR THE TEMPORARY RELOCATION OF BUS STOPS/ZONE.
4. CONTRACTOR SHALL PROVIDE REFLECTORIZED CONES AT TYPE III BARRICADE SUPPORTS TO ALERT PEDESTRIANS OF THE BARRICADE SUPPORT.
5. FIELD CONDITIONS MAY VARY FROM THOSE SHOWN ON THE WTCP. IN THE EVENT FIELD CONDITIONS ARE DIFFERENT, THE CONTRACTOR SHALL COORDINATE WITH LADOT AND L.A.B.O.E. BEFORE IMPLEMENTING THE WTCP. THE CONTRACTOR MAY BE REQUIRED TO SUBMIT A REVISED WTCP TO LADOT AND THE AUTHORITY FOR APPROVAL PRIOR TO IMPLEMENTATION.

PROPOSED STRIPING NOTES

1. THE CONTRACTOR SHALL BE RESPONSIBLE FOR LABOR AND MATERIAL INVOLVED IN THE REMOVAL, MARKOUT, AND INSTALLATION OF ALL STRIPING, PAVEMENT MARKINGS, AND SIGNS SHOWN HEREON. REMOVAL OF MARKINGS SHALL BE PERFORMED BEFORE MARKOUT AND INSTALLATION OF NEW STRIPING, AND SHALL BE BY WET SANDBLASTING/GRINDING IN ACCORDANCE WITH LADOT SPECIFICATION NO. 76-016-10. MARKOUT SHALL BE BY HEAVY PAINT BRUSH OR SPRAY PAINT OVER A PULLED ROPE IN THE RESPECTIVE WHITE OR YELLOW COLORS OF THE PROPOSED STRIPING. FINAL STRIPING AND PAVEMENT MARKINGS SHALL BE IN HOT APPLIED ALKYD THERMOPLASTIC IN ACCORDANCE WITH LADOT SPECIFICATIONS NOS. 51-005-10 AND 76-012-15.
2. THE INSTALLATION OF THERMOPLASTIC STRIPING MAY PROCEED ONLY AFTER INSPECTION AND APPROVAL OF MARKOUT BY THE LADOT CITYWIDE INVESTIGATIONS UNIT. THE CONTRACTOR SHALL CORRECT ALL ERRORS IN MARKOUT REQUESTED BY LADOT. UPON APPROVAL OF MARKOUT THE CONTRACTOR SHALL FULLY INSTALL THE THERMOPLASTIC STRIPING, PAVEMENT MARKINGS, (CURB MARKINGS, AND SIGNS-AS APPLICABLE) WITHIN THE FOLLOWING THREE (3) WORKING DAYS. THE CONTRACTOR SHALL CONTACT THE LADOT CITYWIDE INVESTIGATIONS UNIT AT (213) 928-9625 AT THE FOLLOWING POINTS IN TIME, AND FOR THE FOLLOWING PURPOSES:
   A. TEN (10) WORKING DAYS IN ADVANCE OF MARKOUT.
   B. UPON COMPLETION OF MARKOUT (INCLUDING ANY MARKOUT CORRECTIONS) FOR INSPECTION AND APPROVAL. UPON APPROVAL OF MARKOUT, THE CONTRACTOR SHALL INSTALL THE THERMOPLASTIC STRIPING WITHIN FIVE (5) WORKING DAYS.
   C. UPON COMPLETION OF THERMOPLASTIC STRIPING (INCLUDING ANY THERMOPLASTIC STRIPING CORRECTIONS) FOR INSPECTION AND FINAL STRIPING APPROVAL
3. DURING ALL PHASES OF CONSTRUCTION, TEMPORARY RAISED OVERLAY PAVEMENT MARKERS SHALL BE MAINTAINED ADJACENT TO THE TEMPORARY CENTERLINE, MARKOUT CENTERLINE, OR SCAR OF A SANDBLASTED CENTERLINE, AS APPLICABLE, AS PER LADOT STANDARD PLAN NO. S-453.0.
4. THE FIELD CONDITIONS SHOWN AS EXISTING ON THIS PLAN MAY CHANGE BETWEEN THE PLAN APPROVAL DATE AND THE IMPLEMENTATION DATE. THE CONTRACTOR MAY BE REQUIRED TO INSTALL OR REMOVE STRIPING, PAVEMENT MARKINGS, SIGNS OR OTHER TRAFFIC CONTROL DEVICES BEYOND THOSE INDICATED ON THIS PLAN, IN ORDER TO FACILITATE THESE CHANGES IN FIELD CONDITIONS AND/OR TO BE IN COMPLIANCE WITH LADOT STANDARDS AND SPECIFICATIONS. IF THIS PLAN HAS NOT BEEN INSTALLED WITHIN TWO (2) YEARS OF THE ACCEPTED DATE, IT SHALL BE RESUBMITTED TO LADOT FOR REAPPROVAL PRIOR TO PROCEEDING TO CONSTRUCTION.
5. REMOVAL AND REINSTALLATION OF PARKING METERS THE CONTRACTOR SHALL CONTACT THE LADOT PARKING METER ADMINISTRATOR AT (213) 473-8270 FIVE (5) WORKING DAYS IN ADVANCE OF CONSTRUCTION AFFECTING PARKING METERS. LADOT WILL COORDINATE THE REMOVAL OF PARKING METERS AND SIGNS AS NEEDED AND, UPON COMPLETION OF THE PROJECT, THE REINSTALLATION OF METERS, SIGNS, AND/OR PAINT AS NEEDED. REMOVE AND REINSTALLATION COSTS WILL BE DEDUCTED FROM THE CONTRACTORS DEPOSIT. FAILURE TO NOTIFY LADOT WILL MAKE THE CONTRACTOR LIABLE FOR THE COST OF ANY MISSING OR DAMAGED METERS, SIGNS, ETC., THAT THE DEPARTMENT RECORDS INDICATE WERE PRESENT.
6. REMOVE CONFLICTING STRIPING. INSTALL CONTINENTAL CROSSWALKS PER LADOT STD. DWG. NO. S-481.1.
7. CONTRACTOR SHALL INSPECT AND ENSURE THAT THE FINAL ROADWAY SURFACE IS IN GOOD CONDITION PRIOR TO BIKE LANE INSTALLATION.

LEGEND:

1. – EXISTING STRIPING & MARKINGS TO REMAIN
   – EXISTING STRIPING & MARKINGS TO BE REMOVED
   – PROPOSED STRIPING & MARKINGS
2. R/C – EXISTING RED CURB MARKINGS TO REMAIN
   R/C – EXISTING RED CURB MARKINGS TO BE REMOVED
   R/C – PROPOSED RED CURB MARKINGS
3. – EXISTING SIGN AND POST
   – EXISTING SIGN AND POST TO BE REMOVED/RELOCATED
   – PROPOSED SIGN AND POST
4. (S) – SIGNALIZED INTERSECTION
5. – DRIVEWAY



SIXTH STREET PARC – RESTORATION PLAN

S-504

REVIEWED ________ 20 ___ Transportation Engineer

ACCEPTED ________ 20 ___ Senior Transportation Engineer

INSTALLATION DATES
MARKOUT BEGAN:
MARKOUT COMPLETED:
STRIPING COMPLETED:
References:
Thomas Guide: 634-H5,6 J5,6 / District

CITY OF LOS ANGELES
DEPARTMENT OF TRANSPORTATION
SELETA REYNOLDS, GENERAL MANAGER

SIGNING AND STRIPING NOTES

PROJECT NO. / DRAWING NO.

INDEX NUMBER

SHEET 60 OF 295

SCALES HORIZ. 1"= VERT. 1"=

SCALE: 1"=40'

NO.	REVISION DESCRIPTION	T.E./SR. T.E.	PRINCIPAL T.E.	DATE	BASE / CHECK / DESIGN	SUPERVISOR / DISTRICT / SIGNALS	DATE	BY

TETRA TECH
www.tetratech.com
707 WILSHIRE BLVD, 23RD FLR.
LOS ANGELES, CA 90017
PHONE: (213) 239-8866

PLAN RECOMMENDED BY :
REGISTERED TRAFFIC ENGINEER
DATE :

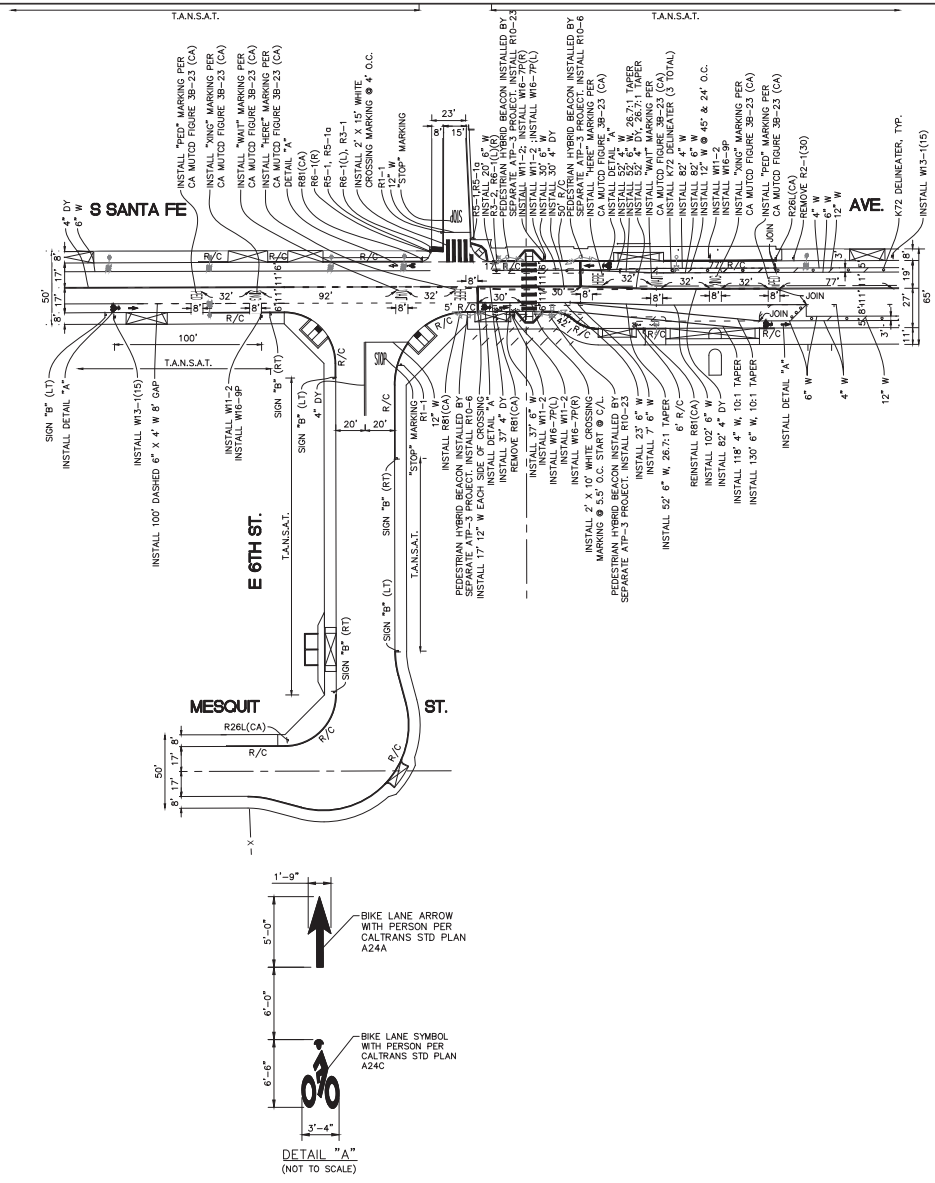
PLAN RECOMMENDED BY :
REGISTERED CIVIL ENGINEER
DATE : 07/11/22

REGISTERED PROFESSIONAL ENGINEER JUSTIN T. SMITH No. 85736 EXP: 9-30-22 CIVIL STATE OF CALIFORNIA

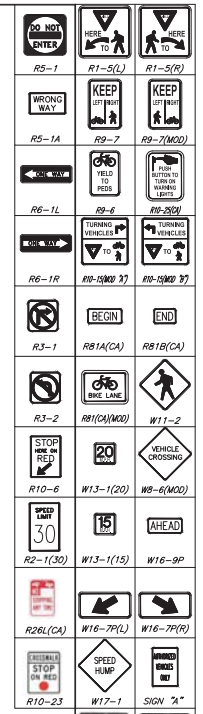
1"=20' ORIGINAL MAP SCALE 1"=40' — 20 10 0 20 40 60 80 100 FEET; 40 20 0 40 80 120 160 200 FEET

CADD PROJECT FILE NAME: D:\Projects\Irvine\20043\200-20043-17001\CAD\SheetFiles\C-504_Signing and Striping Plan_Cover Sheet Notes - TT.dwg Jul 08, 2022 10:50am__Justin.T.Smith

BID SET - NOT FOR CONSTRUCTION



DETAIL "A"
(NOT TO SCALE)



NOTES

1. LENGTH OF DESIGN : 550'±
2. INSTALL PVMT. MARKINGS AS SHOWN.
3. PAINT REMOVAL REQUIRED.
4. CONTINENTAL CROSSWALK PER LADOT STD. DWG. NO. S-481.0.
5. PROPOSED WORK AREA OVERLAPS WITH THE SEPARATE VIADUCT AND ATP-3 SIGNING AND STRIPING IMPROVEMENTS. PARC CONTRACTOR SHALL VERIFY EXISTING FIELD CONDITIONS AND NOTIFY ENGINEER OF DISCREPANCIES.

SIXTH STREET PARC – RESTORATION PLAN C-505

REVIEWED _____ 20 ___
Transportation Engineer

ACCEPTED _____ 20 ___
Senior Transportation Engineer

INSTALLATION DATES
MARKOUT BEGAN:
MARKOUT COMPLETED:
STRIPING COMPLETED:
References:

CITY OF LOS ANGELES
DEPARTMENT OF TRANSPORTATION
SELETA REYNOLDS, GENERAL MANAGER

S SANTA FE AVE.
175' S/O E 6TH ST. TO 375' N/O E 6TH ST.

Thomas Guide	District	PROJECT NO.	DRAWING NO.
634-H5,6 J5,6			

REVISION DESCRIPTION	NO.	DATE	BY
PRINCIPAL T.E.			
T.E./SR. T.E.			
SUPERVISOR DISTRICT SIGNALS			
BASE CHECK DESIGN			

TETRA TECH
www.tetratech.com
707 WILSHIRE BLVD, 23RD FLR.
LOS ANGELES, CA 90017
PHONE: (213) 239-8866

PLAN RECOMMENDED BY :
REGISTERED TRAFFIC ENGINEER
DATE :

PLAN RECOMMENDED BY :
REGISTERED CIVIL ENGINEER
DATE : 07/11/22

REGISTERED PROFESSIONAL ENGINEER JUSTIN T. SMITH No. 85736 EXP: 9-30-22 CIVIL STATE OF CALIFORNIA

SCALE: 1"=40'

1"=20' ORIGINAL MAP SCALE 1"=40'
20 10 0 20 40 60 80 100 FEET
40 20 0 40 80 120 160 200 FEET

SCALES HORIZ. 1"=
VERT. 1"=

SHEET 61 OF 295

INDEX NUMBER

CADD PROJECT FILE NAME: D:\Projects\Irvine\20043\200-20043-17001\CAD\SheetFiles\C-505_Signing and Striping Plan_Santa Fe St - TT.dwg Jul 08, 2022 10:54am__Justin.T.Smith

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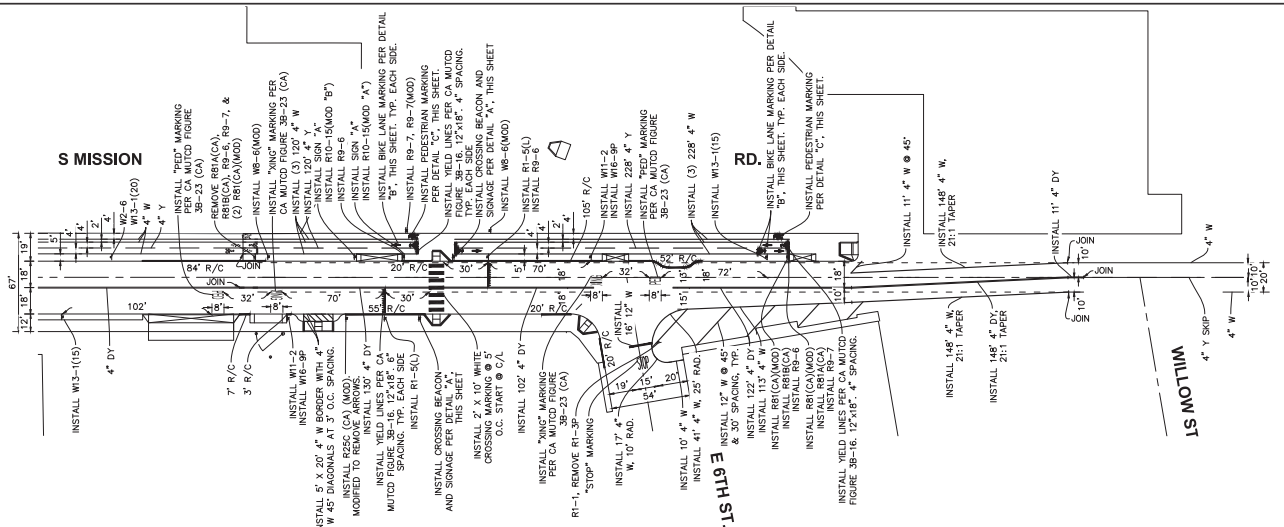

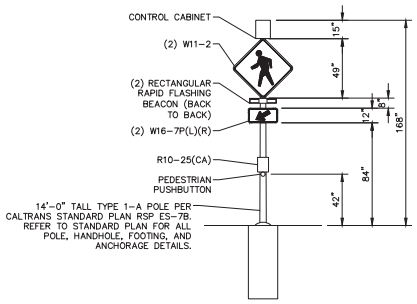

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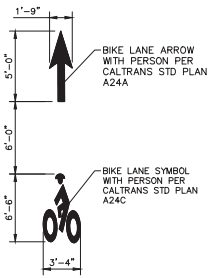
(NOT TO SCALE)



DETAIL "B"
(NOT TO SCALE)

DETAIL "C"
(NOT TO SCALE)

NOTES
1. LENGTH OF DESIGN : 750'±
2. INSTALL PVMT. MARKINGS AS SHOWN.
3. PAINT REMOVAL REQUIRED.
4. CONTINENTAL CROSSWALK PER LADOT STD. DWG. NO. S-481.0.

SIXTH STREET PARC – RESTORATION PLAN C-506

REVIEWED _____ 20 ___ Transportation Engineer	ACCEPTED _____ 20 ___ Senior Transportation Engineer
INSTALLATION DATES MARKOUT BEGAN: MARKOUT COMPLETED: STRIPING COMPLETED: References:	CITY OF LOS ANGELES DEPARTMENT OF TRANSPORTATION SELETA REYNOLDS, GENERAL MANAGER
Thomas Guide: 634-H5,6 J5,6 / District:	PROJECT NO. / DRAWING NO.

S MISSION RD.
400' S/O E 6TH ST TO WILLOW ST. E

SCALE: 1"=40'

DATE	BY	REVISION DESCRIPTION	NO.	DATE

BASE / CHECK / DESIGN
SUPERVISOR / DISTRICT / SIGNALS
T.E./SR. T.E. / PRINCIPAL T.E.

TETRA TECH
www.tetratech.com
707 WILSHIRE BLVD, 23RD FLR.
LOS ANGELES, CA 90017
PHONE: (213) 239-8866

PLAN RECOMMENDED BY :
REGISTERED TRAFFIC ENGINEER
DATE :

PLAN RECOMMENDED BY :
REGISTERED CIVIL ENGINEER
DATE : 07/11/22

REGISTERED PROFESSIONAL ENGINEER JUSTIN T. SMITH No. 85736 EXP: 9-30-22 CIVIL STATE OF CALIFORNIA

1"=20' ORIGINAL MAP SCALE 1"=40'
20 10 0 20 40 60 80 100 FEET
40 20 0 40 80 120 160 200 FEET

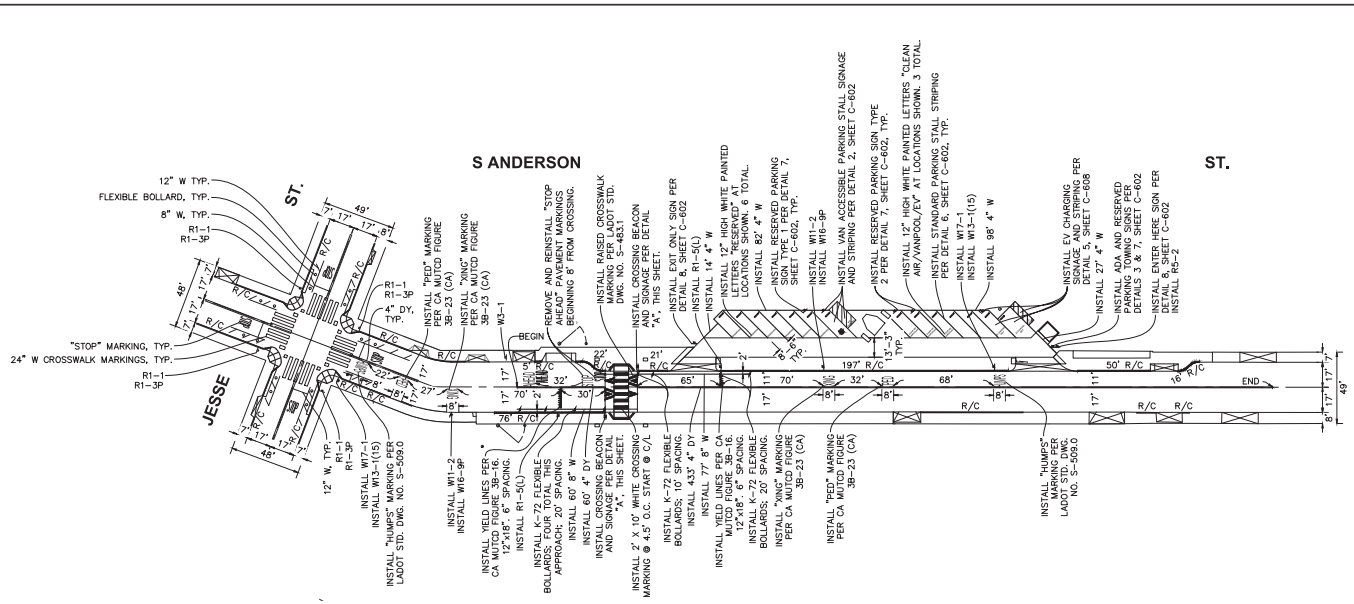
SCALES HORIZ. 1"= VERT. 1"=

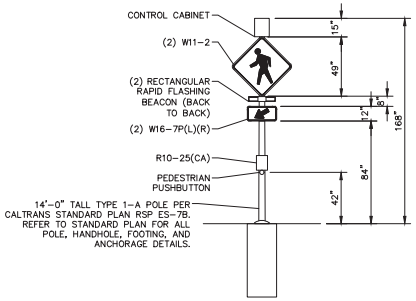
SHEET 62 OF 295

INDEX NUMBER

BID SET - NOT FOR CONSTRUCTION

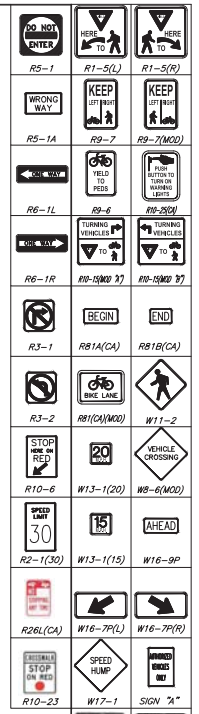
CADD PROJECT FILE NAME: D:\Projects\Irvine\20043\200-20043-17001\CAD\SheetFiles\C-506_Signing and Striping Plan_Mission Rd - TT.dwg Jul 08, 2022 11:00am Justin.T.Smith





DETAIL "A"

NOTES
1. LENGTH OF DESIGN : 670'±
2. INSTALL PVMT. MARKINGS AS SHOWN.
3. PAINT REMOVAL REQUIRED.
4. CONTINENTAL CROSSWALK PER LADOT STD. DWG. NO. S-481.0.



SIXTH STREET PARC – RESTORATION PLAN C-507

REVIEWED _____ 20 ___ Transportation Engineer	ACCEPTED _____ 20 ___ Senior Transportation Engineer
INSTALLATION DATES MARKOUT BEGAN: MARKOUT COMPLETED: STRIPING COMPLETED: References:	CITY OF LOS ANGELES DEPARTMENT OF TRANSPORTATION SELETA REYNOLDS, GENERAL MANAGER S ANDERSON ST. JESSE ST. TO 670' N/O JESSE ST.
Thomas Guide: 634-H5,6 J5,6 / District:	PROJECT NO. / DRAWING NO.

TETRA TECH
www.tetratech.com
707 WILSHIRE BLVD, 23RD FLR.
LOS ANGELES, CA 90017
PHONE: (213) 239-8866

PLAN RECOMMENDED BY :
REGISTERED TRAFFIC ENGINEER
DATE :

PLAN RECOMMENDED BY :
REGISTERED CIVIL ENGINEER
DATE : 07/11/22

REGISTERED PROFESSIONAL ENGINEER JUSTIN T. SMITH No. 85736 EXP: 9-30-22 CIVIL STATE OF CALIFORNIA

SCALE: 1"=40'

1"=20' ORIGINAL MAP SCALE 1"=40'
20 10 0 20 40 60 80 100 FEET
40 20 0 40 80 120 160 200 FEET

SCALES HORIZ. 1"= VERT. 1"=

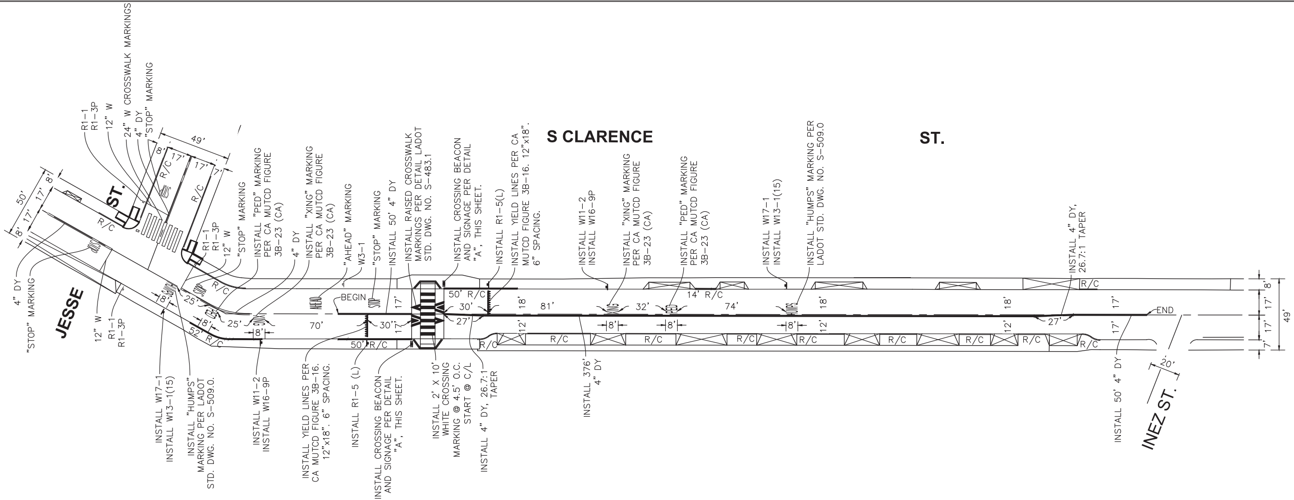
SHEET 63 OF 295

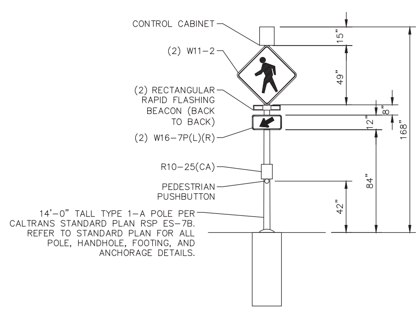
INDEX NUMBER

NO.	REVISION DESCRIPTION	BY	DATE
	T.E./SR. T.E.		
	PRINCIPAL T.E.		
	SUPERVISOR DISTRICT SIGNALS		
	BASE CHECK DESIGN		

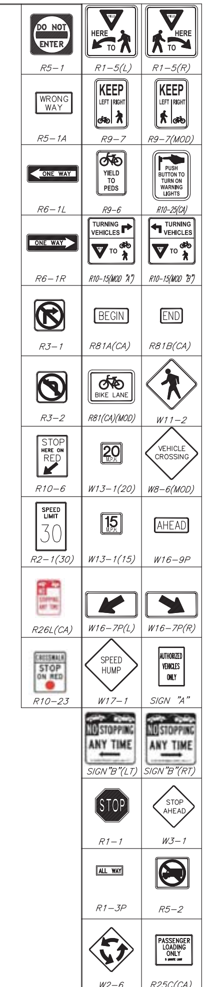
BID SET - NOT FOR CONSTRUCTION

CADD PROJECT FILE NAME: D:\Projects\Irvine\20043\200-20043-17001\CAD\SheetFiles\C-507_Signing and Striping Plan_Anderson St - TT.dwg Jul 08, 2022 11:04am Justin.T.Smith





DETAIL "A"



NOTES

1. LENGTH OF DESIGN : 715'±
2. INSTALL PVMT. MARKINGS AS SHOWN.
3. PAINT REMOVAL REQUIRED.
4. CONTINENTAL CROSSWALK PER LADOT STD. DWG. NO. S-481.0.

SIXTH STREET PARC – RESTORATION PLAN C-508

REVIEWED ______ 20 ___ Transportation Engineer

ACCEPTED ______ 20 ___ Senior Transportation Engineer

INSTALLATION DATES

MARKOUT BEGAN:

MARKOUT COMPLETED:

STRIPING COMPLETED:

References:

CITY OF LOS ANGELES
DEPARTMENT OF TRANSPORTATION
SELETA REYNOLDS, GENERAL MANAGER

S CLARENCE ST.
JESSE ST. TO INEZ ST.

Thomas Guide	District	PROJECT NO.	DRAWING NO.
634-H5,6 J5,6			

SCALE: 1"=40'

SHEET 64 OF 295

INDEX NUMBER

SCALES HORIZ. 1"= VERT. 1"=

1"=20' ORIGINAL MAP SCALE 1"=40'

20 10 0 20 40 60 80 100 FEET

40 20 0 40 80 120 160 200 FEET

PLAN RECOMMENDED BY :

REGISTERED TRAFFIC ENGINEER

DATE :

PLAN RECOMMENDED BY :

REGISTERED CIVIL ENGINEER

DATE : 07/11/22

REGISTERED PROFESSIONAL ENGINEER JUSTIN T. SMITH No. 85736 EXP: 9-30-22 CIVIL STATE OF CALIFORNIA

TETRA TECH
www.tetratech.com
707 WILSHIRE BLVD, 23RD FLR.
LOS ANGELES, CA 90017
PHONE: (213) 239-8866

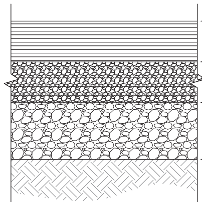
NO.	REVISION DESCRIPTION	T.E./SR. T.E.	PRINCIPAL T.E.	DATE

DESIGN	CHECK	BASE		BY	DATE
	SIGNALS	DISTRICT	SUPERVISOR	BY	DATE

CADD PROJECT FILE NAME: D:\Projects\Irvine\20043\200-20043-17001\CAD\SheetFiles\C-508_Signing and Striping Plan_S Clarence St - TT.dwg Jul 08, 2022 11:10am__Justin.T.Smith

BID SET - NOT FOR CONSTRUCTION

1 ASPHALT CONCRETE PVMT.

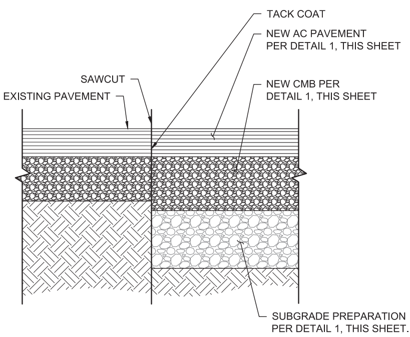


(R-VALUE=50, TI=13)

NOTE:
1. SUBGRADE SHALL BE SCARIFIED AND MOISTURE CONDITIONED TO AT LEAST 2 PERCENT OVER OPTIMUM MOISTURE CONTENT.
2. ASPHALT SHALL BE PLACED AND COMPACTED IN LIFTS NOT EXCEEDING 3". TACK COAT TO BE APPLIED BETWEEN LAYERS. APPLY SEAL COAT PER SPECIFICATIONS.
3. BASE SHALL BE PLACED AND COMPACTED IN LIFTS NOT EXCEEDING 6".

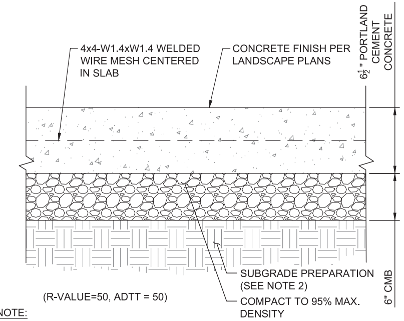
NTS REFERENCE SHEET C-500 THRU C-503

2 JUNCTURE NEW PVMT. AND (E) PVMT.



NTS REFERENCE SHEET C-500 THRU C-503

3 CONCRETE PVMT. - VEHICULAR

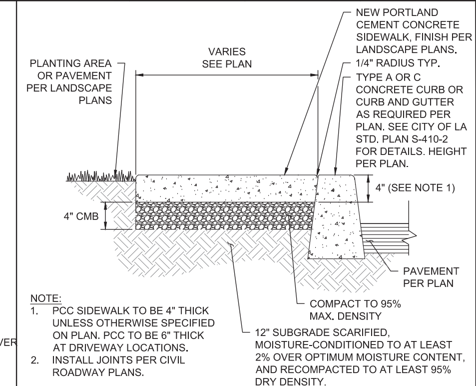


(R-VALUE=50, ADTT = 50)

NOTE:
1. PCC PAVEMENT SHALL CONFORM TO TABLE 622.1 OF THE CALTRANS HDM.
2. 12" SUBGRADE SHALL BE SCARIFIED, MOISTURE-CONDITIONED TO AT LEAST 2% OVER OPTIMUM MOISTURE CONTENT, AND RECOMPACTED TO AT LEAST 95% MAX DRY DENSITY.
3. BASE SHALL BE PLACED AND COMPACTED IN LIFTS NOT EXCEEDING 6".

NTS REFERENCE SHEET C-502

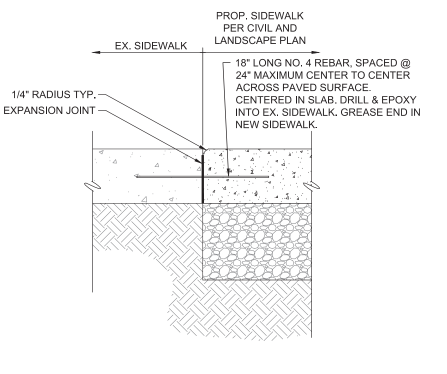
4 PEDESTRIAN CONCRETE WALKWAY



NOTE:
1. PCC SIDEWALK TO BE 4" THICK UNLESS OTHERWISE SPECIFIED ON PLAN. PCC TO BE 6" THICK AT DRIVEWAY LOCATIONS.
2. INSTALL JOINTS PER CIVIL ROADWAY PLANS.

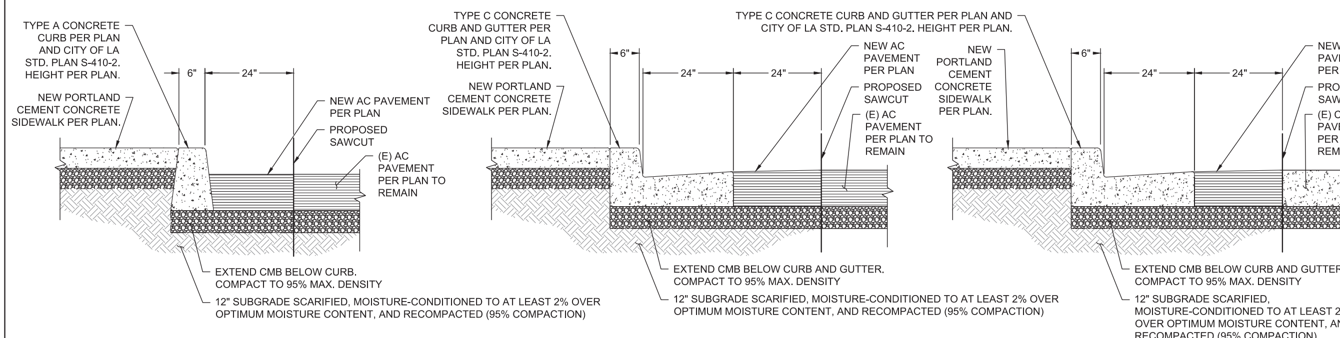
NTS REFERENCE SHEET C-500 THRU C-503

5 JUNCTURE NEW WALK AND (E) WALK



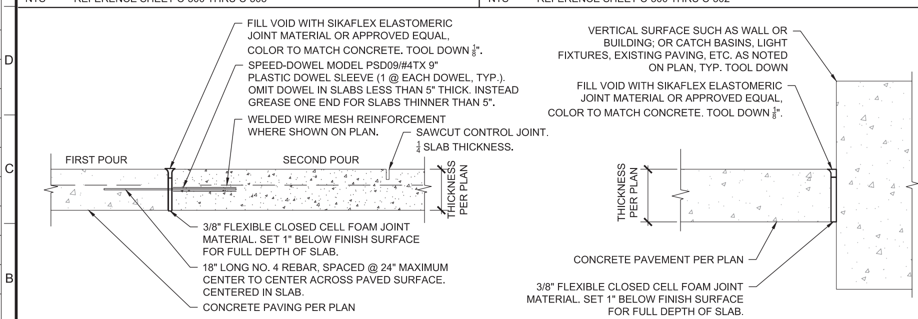
NTS REFERENCE SHEET C-500 THRU C-503

6 CURB RECONSTRUCTION ADJACENT TO EXISTING PAVEMENT TO REMAIN



NTS REFERENCE SHEET C-500 THRU C-502

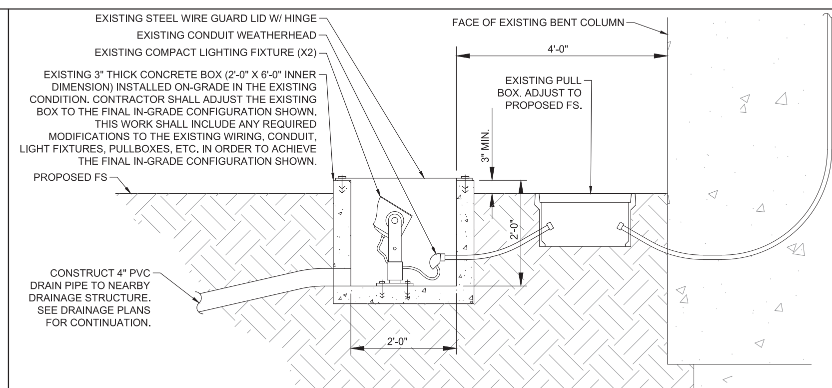
7 CONCRETE PVMT. JOINTS



NOTE:
1. MAINTAIN LINE AND GRADE AT EXPANSION JOINTS.
2. SEE PLAN FOR JOINT LOCATIONS.

NTS REFERENCE SHEET L-131 THRU L-135, C-500 THRU C-503

8 VIADUCT ARCH LIGHT ADJUSTMENT TO IN-GRADE



NTS REFERENCE SHEET CD-002 THRU CD-005

THE CITY OF LOS ANGELES OR ITS OFFICERS OR AGENTS SHALL NOT BE RESPONSIBLE FOR THE ACCURACY OR COMPLETENESS OF ELECTRONIC COPIES OF THIS PLAN SHEET.

REVISION DATES (DESIGN STAGE ONLY)

Sheet Version 3.0

PLANS PREPARED BY: TETRA TECH, INC.
707 WILSHIRE BLVD. 23RD FLR.
LOS ANGELES, CA 90017
PHONE: (213) 239-8866

CITY OF LOS ANGELES DEPARTMENT OF PUBLIC WORKS BUREAU OF ENGINEERING

VERT. CONTROL: BM 12-04070, 1929 (NGVD29) - 1985 ADJUSTMENT
HORIZ. CONTROL: GPS; PID AE 1704, EPOCH 1991.35

SHEET TITLE: CIVIL DETAILS SHEET 1

PROJECT: SIXTH STREET PARK, ARTS AND RIVER CONNECTIVITY IMPROVEMENTS (PARC)

ADDRESS: SIXTH STREET OVER THE LOS ANGELES RIVER

GARY LEE MOORE, P.E., ENV SP — CITY ENGINEER

DESIGN GROUP

ENGINEER: JUSTIN SMITH LIC. NO. C-85736 DATE: 07/11/22
DESIGNED BY: JUSTIN SMITH
DRAWN BY: DAVID LOPEZ
CHECKED BY: NATE SCHREINER
APPROVED BY: JASON L. FUSSEL

THIS PLAN WAS ELECTRONICALLY SIGNED AND STAMPED

REGISTERED PROFESSIONAL ENGINEER — JUSTIN T. SMITH — No. 85736 — EXP. 9-30-22 — CIVIL — STATE OF CALIFORNIA

NO. | REVISIONS | DATE | BY

INDEX NO.

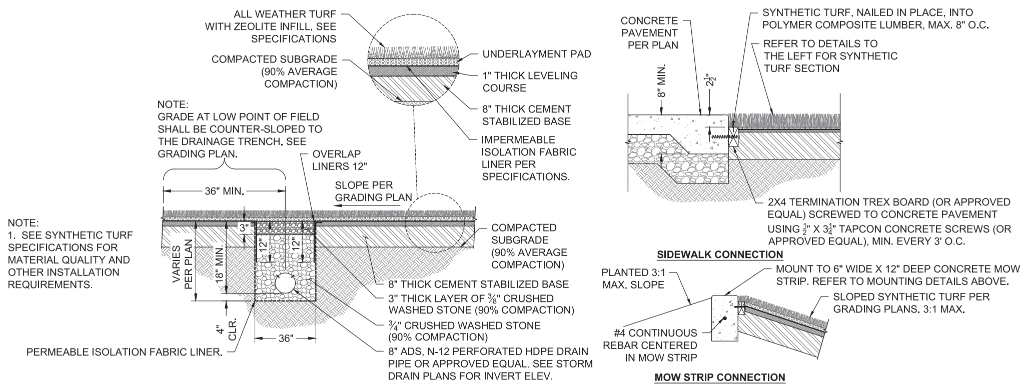
BUILDING NO.

ENGINEERING — CITY OF LOS ANGELES

WORK ORDER NO. E700235D
FILE NO. --
DRAWING NO. C-600
SHEET 65 OF 295 SHEETS

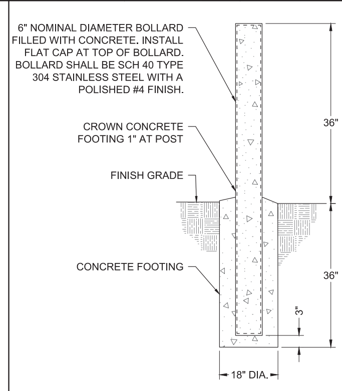
7/8/2022 1:01:50 AM - O:\PROJECTS\IRVINE\20043\200-20043-17001\CAD\SHEETFILES\C-600_DETAILS - TT.DWG - SMITH, JUSTIN

BID SET - NOT FOR CONSTRUCTION

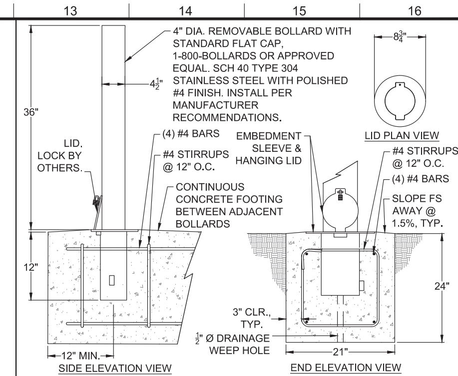


NOTE:
1. SEE SYNTHETIC TURF SPECIFICATIONS FOR MATERIAL QUALITY AND OTHER INSTALLATION REQUIREMENTS.

1 SYNTHETIC TURF
NTS REFERENCE SHEET L-133 THRU L-134

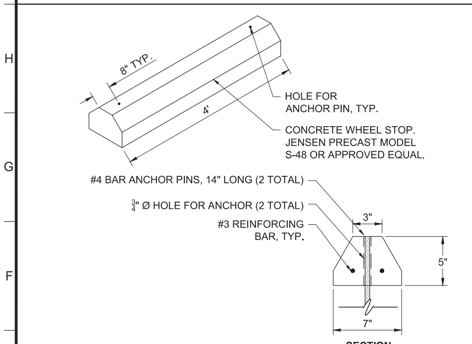


2 FIXED BOLLARD
NTS REFERENCE SHEET C-502



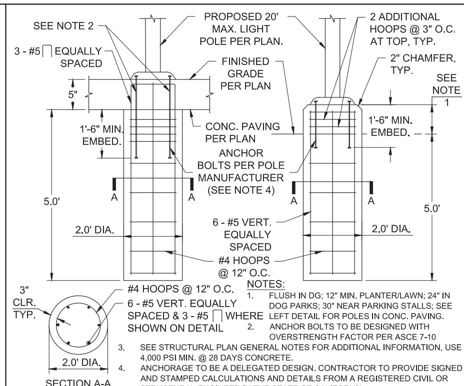
NOTE:
1. CONTRACTOR SHALL COORDINATE WITH BOLLARD MANUFACTURER TO VERIFY FOUNDATION DESIGN.

3 REMOVABLE BOLLARD
NTS REFERENCE SHEET C-500



NOTES:
1. WHEEL STOP SHALL BE PREFABRICATED P.C. CONCRETE - 3500 PSI MIN.
2. REINFORCEMENT SHALL BE ASTM A-615 GRADE 60.

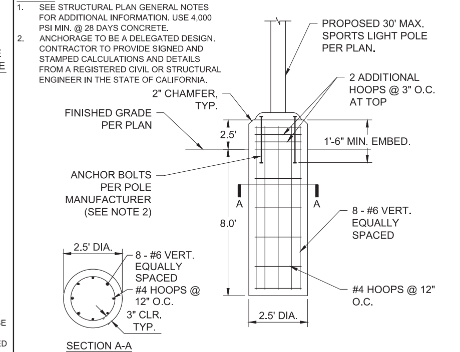
4 WHEEL STOP
NTS REFERENCE SHEET C-502



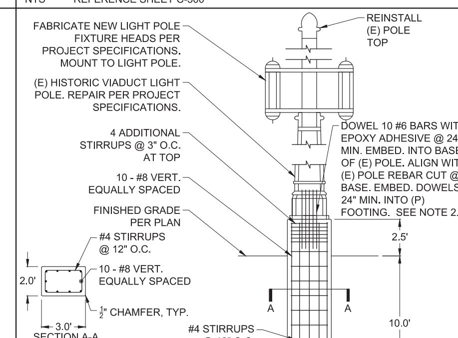
NOTES:
1. FLUSH IN DG; 12" MIN. PLANTER/LAWN; 24" IN DOG PARKS; 30" NEAR PARKING STALLS; SEE LEFT DETAIL FOR POLES IN CONC. PAVING.
2. ANCHOR BOLTS TO BE DESIGNED WITH OVERSTRENGTH FACTOR PER ASCE 7-10
3. SEE STRUCTURAL PLAN GENERAL NOTES FOR ADDITIONAL INFORMATION, USE 4,000 PSI MIN. @ 28 DAYS CONCRETE.
4. ANCHORAGE TO BE A DELEGATED DESIGN. CONTRACTOR TO PROVIDE SIGNED AND STAMPED CALCULATIONS AND DETAILS FROM A REGISTERED CIVIL OR STRUCTURAL ENGINEER IN THE STATE OF CALIFORNIA.

5 TYP. LIGHT POLE FOUNDATION
NTS REFERENCE SHEET E-101 THRU E-107

NOTES:
1. SEE STRUCTURAL PLAN GENERAL NOTES FOR ADDITIONAL INFORMATION. USE 4,000 PSI MIN. @ 28 DAYS CONCRETE.
2. ANCHORAGE TO BE A DELEGATED DESIGN. CONTRACTOR TO PROVIDE SIGNED AND STAMPED CALCULATIONS AND DETAILS FROM A REGISTERED CIVIL OR STRUCTURAL ENGINEER IN THE STATE OF CALIFORNIA.

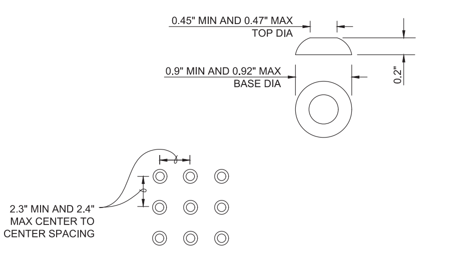


6 SPORTS LIGHT POLE FOUNDATION
NTS REFERENCE SHEET E-105 THRU E-106



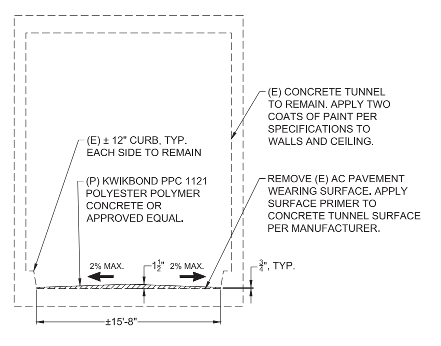
NOTES:
1. SEE STRUCTURAL PLAN GENERAL NOTES FOR ADDITIONAL INFORMATION. USE 4,000 PSI MIN. @ 28 DAYS CONCRETE.
2. FINAL ANCHORAGE DESIGN TO BE A DELEGATED DESIGN. CONTRACTOR TO PROVIDE SIGNED AND STAMPED CALCULATIONS AND DETAILS FROM A REGISTERED CIVIL OR STRUCTURAL ENGINEER IN THE STATE OF CALIFORNIA.

7 HISTORIC LIGHT POLE FOUNDATION
NTS REFERENCE SHEET C-502 & E-106

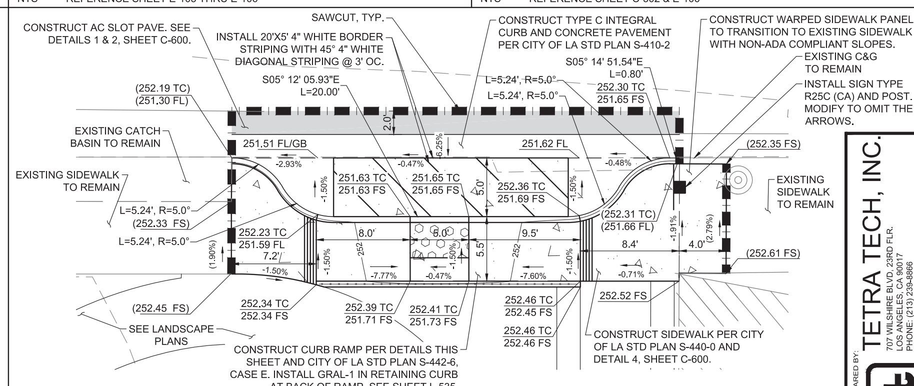


NOTE:
1. DETECTABLE WARNING SURFACE COLOR PER SPECIFICATIONS.
2. DETECTABLE WARNING SURFACE SHALL BE CAST INTO PROPOSED CONCRETE.

8 DETECTABLE WARNING SURFACE
NTS REFERENCE SHEET C-500 THRU C-503



9 TUNNEL RESURFACING (PVMT 8)
NTS REFERENCE SHEET CD-002 & L-132



10 MATEO STREET PASSENGER LOADING ZONE
NTS REFERENCE SHEET C-200

PLANS PREPARED BY:
TETRA TECH, INC.
707 WILSHIRE BLVD, 23RD FLR.
LOS ANGELES, CA 90017
PHONE: (213) 239-8866

CITY OF LOS ANGELES — DEPARTMENT OF PUBLIC WORKS — BUREAU OF ENGINEERING

VERT. CONTROL: BM 12-04070, 1929 (NGVD29) • 1985 ADJUSTMENT
HORIZ. CONTROL: GPS: PID AE 1704, EPOCH 1991.35

SHEET TITLE: CIVIL DETAILS SHEET 2
PROJECT: SIXTH STREET PARK, ARTS AND RIVER CONNECTIVITY IMPROVEMENTS (PARC)
ADDRESS: SIXTH STREET OVER THE LOS ANGELES RIVER

GARY LEE MOORE, P.E., ENV SP — CITY ENGINEER
DESIGN GROUP
ENGINEER: JUSTIN SMITH LIC. NO. C-85736 DATE: 07/11/22
DESIGNED BY: JUSTIN SMITH
DRAWN BY: DAVID LOPEZ
CHECKED BY: NATE SCHREINER
APPROVED BY: JASON L. FUSSEL

THIS PLAN WAS ELECTRONICALLY SIGNED AND STAMPED.
REGISTERED PROFESSIONAL ENGINEER — JUSTIN T. SMITH — No. 85736 — EXP. 9-30-22 — CIVIL — STATE OF CALIFORNIA

NO. REVISIONS: | DATE | BY:
INDEX NO.
BUILDING NO.

WORK ORDER NO. E700235D
FILE NO. --
DRAWING NO. C-601
SHEET 66 OF 295 SHEETS

REVISION DATES (DESIGN STAGE ONLY)

Sheet Version 3.0

7/8/2022 2:08:12 PM - O:\PROJECTS\IRVINE\20043\200-20043-17001\CAD\SHEETFILES\C-601_DETAILS - TT.DWG - SMITH, JUSTIN

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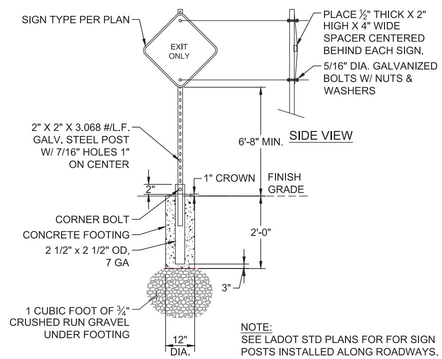
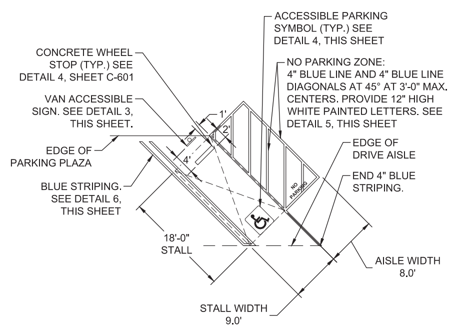


NOTE:
SEE LADOT STD PLANS FOR FOR SIGN POSTS INSTALLED ALONG ROADWAYS.

1 PARKING PLAZA SIGN POSTS

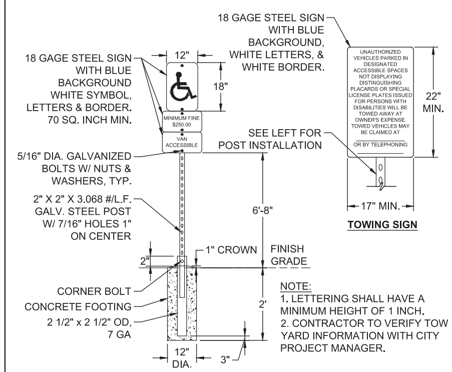
NTS REFERENCE SHEET C-507



NOTES:
1. PER LABC CH 11B AND FIGURE 11B-18A.

2 ACCESSIBLE PARKING SPACE

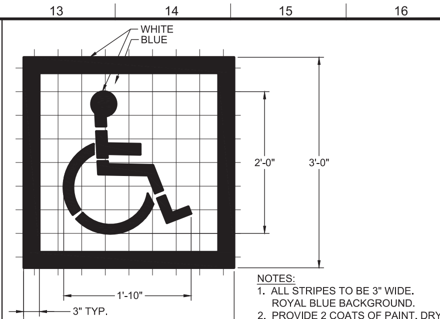
NTS REFERENCE SHEET C-507



NOTE:
1. LETTERING SHALL HAVE A MINIMUM HEIGHT OF 1 INCH.
2. CONTRACTOR TO VERIFY TOW YARD INFORMATION WITH CITY PROJECT MANAGER.

3 ACCESSIBLE PARKING SIGNS

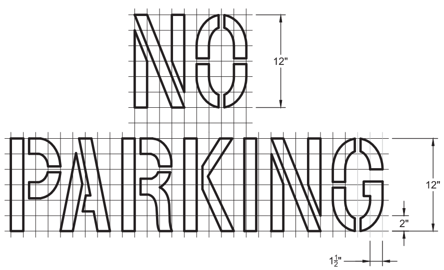
NTS REFERENCE SHEET C-507



NOTES:
1. ALL STRIPES TO BE 3" WIDE. ROYAL BLUE BACKGROUND.
2. PROVIDE 2 COATS OF PAINT. DRY BETWEEN COATS.
3. LOCATE SYMBOL AT CENTER OF STALL WHERE SHOWN ON DETAIL.
4. ACCESSIBLE SYMBOL TO COMPLY WITH CURRENT REQUIREMENTS OF TITLE 24, STATE CODE.

4 ACCESSIBLE PARKING SYMBOL

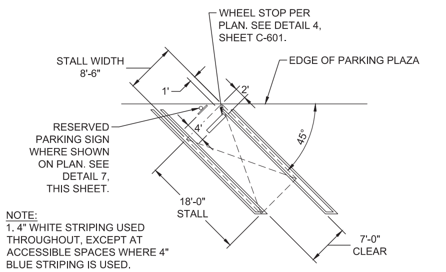
NTS REFERENCE SHEET C-507



NOTE:
THE WORDS, "NO PARKING", SHALL BE PAINTED IN WHITE LETTERS NO LESS THAN 1'-0" HIGH ON A CONTRASTING BACKGROUND AND LOCATED SO THAT IT IS VISIBLE TO TRAFFIC ENFORCEMENT OFFICIALS.

5 NO PARKING DETAIL

NTS REFERENCE SHEET C-507

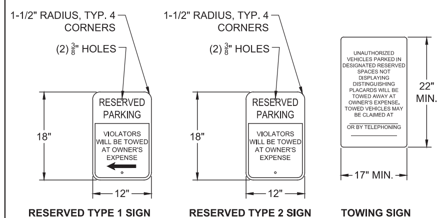


NOTE:
1. 4" WHITE STRIPING USED THROUGHOUT, EXCEPT AT ACCESSIBLE SPACES WHERE 4" BLUE STRIPING IS USED.

2. STRIPING PER LOS ANGELES DEPARTMENT OF BUILDING AND SAFETY DOC. NO. P/ZC 2002-001

6 STANDARD PARKING STALLS

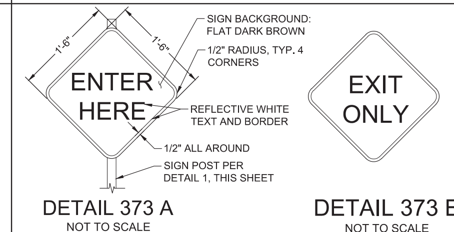
NTS REFERENCE SHEET C-507



NOTE:
1. LETTERING SHALL HAVE A MINIMUM HEIGHT OF 1 INCH.
2. SIGNS SHALL BE ENGINEER GRADE REFLECTIVE ALUMINUM.
3. RESERVED PARKING SIGN SHALL HAVE A RED BORDER. "RESERVED PARKING" LETTERS SHALL BE WHITE ON A RED BACKGROUND, WHILE REMAINING LETTERS SHALL BE RED ON A WHITE BACKGROUND.
4. TOWING SIGN SHALL HAVE A RED BORDER AND LETTERING ON A WHITE BACKGROUND.
5. MOUNT PER DETAIL 3, THIS SHEET.

7 RESERVED PARKING SIGN

NTS REFERENCE SHEETC-507



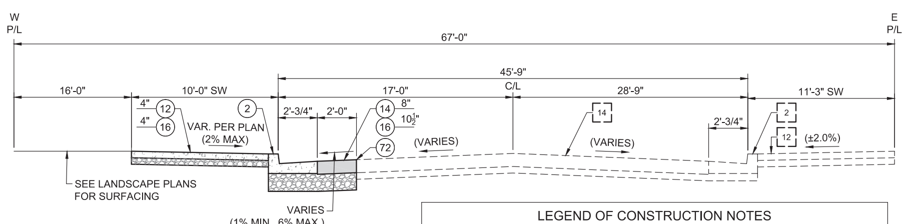
DETAIL 373 A
NOT TO SCALE

DETAIL 373 B
NOT TO SCALE

NOTES:
1. TWO (2) SIGNS REQUIRED PER POST
2. SIGNS SHALL BE CUSTOM MANUFACTURED BY ZUMAR INDUSTRIES, INC. 213-724-8450, (OR APPROVED EQUAL) AND FABRICATED TO THE FOLLOWING SPECIFICATIONS:
   - FOR 373A: QUANTITY = 2 - SPECIAL - 18" x18" - DIAMOND - ENTER HERE - .080" - 1/2" RADIUS - STANDARD HOLES - ENGINEER GRADE - WHITE ON DARK BROWN;
   - FOR 373B: QUANTITY = 2 - SPECIAL - 18" x18" - DIAMOND - EXIT ONLY - .080" - 1/2" RADIUS - STANDARD HOLES - ENGINEER GRADE - WHITE ON DARK BROWN
3. 313A AND 373B ARE IDENTICAL EXCEPT FOR TEXT.
4. INSTALL SIGN PER DETAIL 1, THIS SHEET

8 ENTRANCE/EXIT SIGN

NTS REFERENCE SHEET C-507

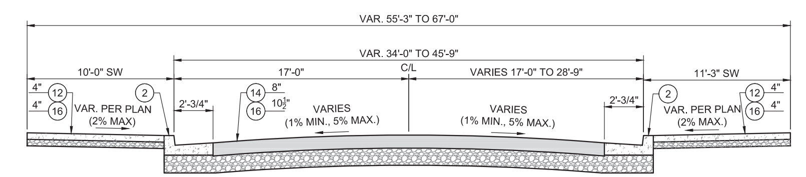


LEGEND OF CONSTRUCTION NOTES		
◯ CONSTRUCT	⌜⌟ EXISTING-PROTECT IN PLACE	
NO.	CONSTRUCTION ITEM/NOTE	STANDARD PLAN
2	TYPE C INTEGRAL CURB & GUTTER	S-410-2
12	CONCRETE WALK	S-444-0; DTL 4, SHT C-600
14	ASPHALT CONCRETE PAVEMENT	DTL 1, SHT C-600
16	UNTREATED BASE MATERIAL	SEE PVMT DTL
72	SAWCUT LINE; JOIN EXISTING	DTL 2, 5, 6, SHT C-600

GENERAL NOTES:
1. SEE DETAIL 6, CASE 2 ON SHEET C-600 FOR CURB AND GUTTER CONSTRUCTION.
2. SEE SHEET C-500 FOR PROPOSED DRIVEWAY OPENINGS AND PEDESTRIAN CURB RAMPS.
3. SIDEWALK CONCRETE THICKNESS AT PROPOSED DRIVEWAYS SHALL BE 6" THICK MINIMUM.

9 TYP. ROADWAY SECTION - SANTA FE AVE. STA. 11+76.07 TO STA. 12+65.30

NTS REFERENCE SHEET C-500



LEGEND OF CONSTRUCTION NOTES		
◯ CONSTRUCT	⌜⌟ EXISTING-PROTECT IN PLACE	
NO.	CONSTRUCTION ITEM/NOTE	STANDARD PLAN
2	TYPE C INTEGRAL CURB & GUTTER	S-410-2
12	CONCRETE WALK	S-444-0; DTL 4, SHT C-600
14	ASPHALT CONCRETE PAVEMENT	DTL 1, SHT C-600
16	UNTREATED BASE MATERIAL	SEE PVMT DTL
72	SAWCUT LINE; JOIN EXISTING	DTL 2, 5, 6, SHT C-600

GENERAL NOTES:
1. SEE DETAIL 6, CASE 2 ON SHEET C-600 FOR CURB AND GUTTER CONSTRUCTION.
2. SEE SHEET C-500 FOR PROPOSED DRIVEWAY OPENINGS AND PEDESTRIAN CURB RAMPS.
3. SIDEWALK CONCRETE THICKNESS AT PROPOSED DRIVEWAYS SHALL BE 6" THICK MINIMUM.
4. CONSTRUCT T SECTION PER CITY STD PLAN S-432-1. SEE SHEET C-500.

10 TYP. ROADWAY SECTION - SANTA FE AVE. STA. 10+54.94 TO STA. 11+76.07

NTS REFERENCE SHEET C-500

REVISION DATES (DESIGN STAGE ONLY)

Sheet Version 3.0

PLANS PREPARED BY:
TETRA TECH, INC.
707 WILSHIRE BLVD, 23RD FLR.
LOS ANGELES, CA 90017
PHONE: (213) 239-8866

CITY OF LOS ANGELES — DEPARTMENT OF PUBLIC WORKS — BUREAU OF ENGINEERING

VERT. CONTROL: BM 12-04070, 1929 (NGVD29) • 1985 ADJUSTMENT
HORIZ. CONTROL: GPS; PID AE 1704, EPOCH 1991.35

SHEET TITLE: CIVIL DETAILS SHEET 3
PROJECT: SIXTH STREET PARK, ARTS AND RIVER CONNECTIVITY IMPROVEMENTS (PARC)
ADDRESS: SIXTH STREET OVER THE LOS ANGELES RIVER

GARY LEE MOORE, P.E., ENV SP — CITY ENGINEER
DESIGN GROUP — DATE:
ENGINEER: JUSTIN SMITH — LIC. NO.: C-85736 — 07/11/22
DESIGNED BY: JUSTIN SMITH
DRAWN BY: DAVID LOPEZ
CHECKED BY: NATE SCHREINER
APPROVED BY: JASON L. FUSSEL

THIS PLAN WAS ELECTRONICALLY SIGNED AND STAMPED.
REGISTERED PROFESSIONAL ENGINEER — JUSTIN T. SMITH — No. 85736 — EXP. 9-30-22 — CIVIL — STATE OF CALIFORNIA

NO. | REVISIONS: | DATE | BY:

INDEX NO.
BUILDING NO.

ENGINEERING — CITY OF LOS ANGELES

WORK ORDER NO. E700235D
FILE NO. --
DRAWING NO. C-602
SHEET 67 OF 295 SHEETS

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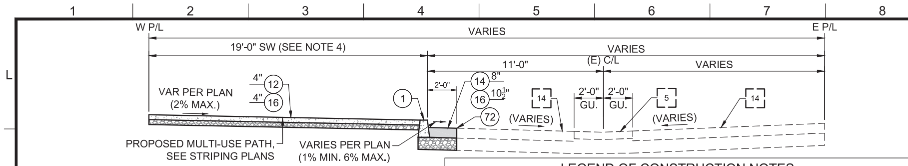


GENERAL NOTES:

1. SEE DETAIL 6, CASE 1 ON SHEET C-600 FOR CURB CONSTRUCTION.
2. SEE SHEET C-501 FOR PROPOSED DRIVEWAY OPENINGS, CURB RETURNS, AND PEDESTRIAN CURB RAMPS.
3. SIDEWALK CONCRETE THICKNESS AT PROPOSED DRIVEWAYS SHALL BE 6" THICK MINIMUM.
4. BETWEEN STATIONS 12+79.87 AND 13+15.15, WIDTH TO VARY BETWEEN 19'-0" AND 23'-6". SEE SHEET C-501 FOR ADDITIONAL INFORMATION ON THE CURB EXTENSION.

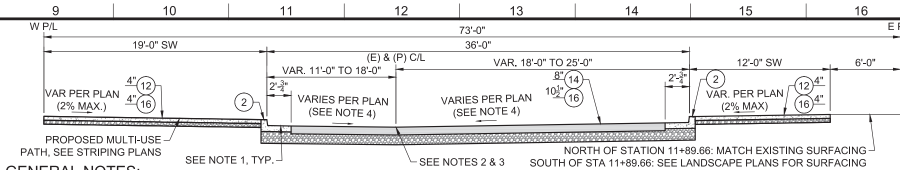
LEGEND OF CONSTRUCTION NOTES

○ CONSTRUCT [ ] EXISTING-PROTECT IN PLACE

NO.	CONSTRUCTION ITEM/NOTE	STANDARD PLAN
1	TYPE A CONCRETE CURB	S-410-2
5	CONCRETE LONGITUDINAL GUTTER	S-410-2
12	CONCRETE WALK	S-444-0; DTL 4, SHT C-600
14	ASPHALT CONCRETE PAVEMENT	DTL 1, SHT C-600
16	UNTREATED BASE MATERIAL	SEE PVMT DTL
72	SAWCUT LINE; JOIN EXISTING	DTL 2, 5, 6, SHT C-600

1 TYP. ROADWAY SECTION - MISSION RD. STA. 12+26.03 TO STA. 14+21.81

NTS REFERENCE SHEET C-501



GENERAL NOTES:

1. CURB AND GUTTER SHALL TRANSITION FROM A SHED GUTTER TO THE STANDARD CITY GUTTER SECTION BETWEEN STATION 12+26.03 AND STATION 11+85.85. SEE SHEET C-501 FOR ADDITIONAL INFORMATION.
2. SEE SHEET C-501 FOR PROPOSED CATCH BASIN LOCATION AT C/L.
3. CENTERLINE LOCATION TRANSITION OCCURS BETWEEN STATION 11+60.85 AND STATION 11+85.85. SEE SHEET C-501 FOR ADDITIONAL INFORMATION.
4. STREET SECTION TRANSITIONS FROM A REVERSE CROWN CONDITION AT STATION 12+26.03 TO A STANDARD CROWN CONDITION AT STATION 11+35.85. SEE SHEET C-501 FOR ADDITIONAL INFORMATION.

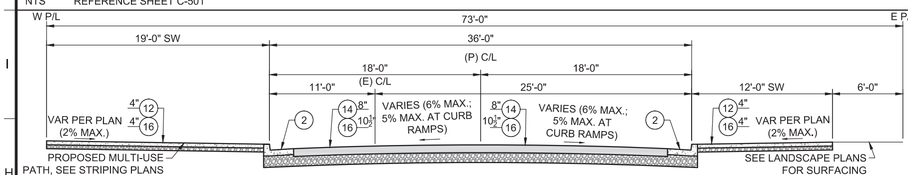
LEGEND OF CONSTRUCTION NOTES

○ CONSTRUCT [ ] EXISTING-PROTECT IN PLACE

NO.	CONSTRUCTION ITEM/NOTE	STANDARD PLAN
2	TYPE C INTEGRAL CURB & GUTTER	S-410-2
12	CONCRETE WALK	S-444-0; DTL 4, SHT C-600
14	ASPHALT CONCRETE PAVEMENT	DTL 1, SHT C-600
16	UNTREATED BASE MATERIAL	SEE PVMT DTL

2 TYP. ROADWAY SECTION - MISSION RD. STA. 11+35.85 TO STA. 12+26.03

NTS REFERENCE SHEET C-501



GENERAL NOTES:

1. SEE SHEET C-501 FOR PROPOSED DRIVEWAY OPENINGS AND PEDESTRIAN CURB RAMPS.
2. SIDEWALK CONCRETE THICKNESS AT PROPOSED DRIVEWAYS SHALL BE 6" THICK MINIMUM.
3. CONSTRUCT T SECTION PER CITY STD PLAN S-432-1. SEE SHEET C-501.

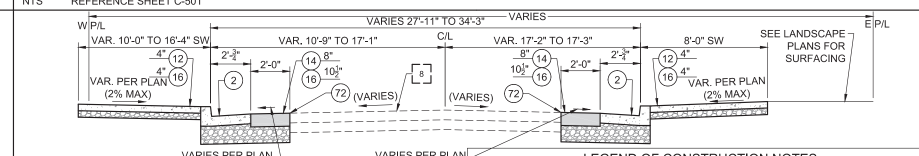
LEGEND OF CONSTRUCTION NOTES

○ CONSTRUCT [ ] EXISTING-PROTECT IN PLACE

NO.	CONSTRUCTION ITEM/NOTE	STANDARD PLAN
2	TYPE C INTEGRAL CURB & GUTTER	S-410-2
12	CONCRETE WALK	S-444-0; DTL 4, SHT C-600
14	ASPHALT CONCRETE PAVEMENT	DTL 1, SHT C-600
16	UNTREATED BASE MATERIAL	SEE PVMT DTL

3 TYP. ROADWAY SECTION - MISSION RD. STA. 10+00.00 TO STA. 11+35.85

NTS REFERENCE SHEET C-501



GENERAL NOTES:

1. SEE DETAIL 6, CASE 3 ON SHEET C-600 FOR CURB AND GUTTER CONSTRUCTION.
2. SEE SHEET C-502 FOR PROPOSED DRIVEWAY OPENINGS, MOUNTABLE CURB SECTIONS, RAISED CROSSINGS, AND PEDESTRIAN CURB RAMPS.
3. WESTERN SIDEWALK AND CURB RECONSTRUCTION TO BEGIN AT STA 30+69.03.
4. SIDEWALK CONCRETE THICKNESS AT PROPOSED DRIVEWAYS AND MOUNTABLE CURBS SHALL BE 6" THICK MINIMUM.

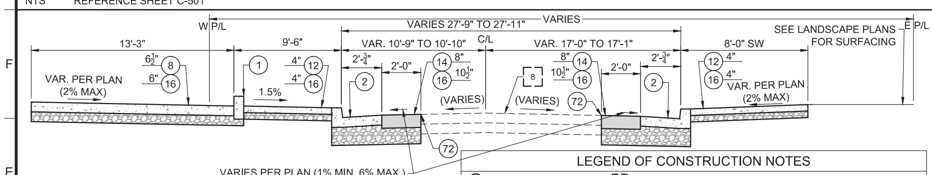
LEGEND OF CONSTRUCTION NOTES

○ CONSTRUCT [ ] EXISTING-PROTECT IN PLACE

NO.	CONSTRUCTION ITEM/NOTE	STANDARD PLAN
2	TYPE C INTEGRAL CURB & GUTTER	S-410-2
8	CONCRETE PAVEMENT	DTL 3 & 7, SHT C-600
12	CONCRETE WALK	S-444-0; DTL 4, SHT C-600
14	ASPHALT CONCRETE PAVEMENT	DTL 1, SHT C-600
16	UNTREATED BASE MATERIAL	SEE PVMT DTL
72	SAWCUT LINE; JOIN EXISTING	DTL 2, 5, 6, SHT C-600

4 TYP. ROADWAY SECTION - ANDERSON ST. STA. 30+28.88 TO STA. 31+77.39

NTS REFERENCE SHEET C-502



GENERAL NOTES:

1. SEE DETAIL 6, CASE 3 ON SHEET C-600 FOR CURB AND GUTTER CONSTRUCTION.
2. SEE SHEET C-502 FOR PROPOSED DRIVEWAY OPENINGS.
3. EASTERN SIDEWALK AND CURB RECONSTRUCTION TO END AT STA 33+13.27.
4. SIDEWALK CONCRETE THICKNESS AT PROPOSED DRIVEWAYS SHALL BE 6" THICK MINIMUM.
5. TYPE A CONCRETE CURB TO BE CONSTRUCTED WITH VERTICAL FACES. TYPE A CONCRETE CURB TO BE CONSTRUCTED BETWEEN STATION 31+92.34 AND STATION 33+96.81.

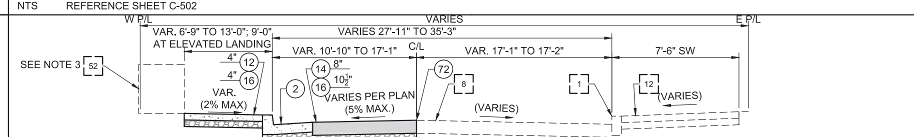
LEGEND OF CONSTRUCTION NOTES

○ CONSTRUCT [ ] EXISTING-PROTECT IN PLACE

NO.	CONSTRUCTION ITEM/NOTE	STANDARD PLAN
1	TYPE A CONCRETE CURB	S-410-2
2	TYPE C INTEGRAL CURB & GUTTER	S-410-2
8	CONCRETE PAVEMENT	DTL 3 & 7, SHT C-600
12	CONCRETE WALK	S-444-0; DTL 4, SHT C-600
14	ASPHALT CONCRETE PAVEMENT	DTL 1, SHT C-600
16	UNTREATED BASE MATERIAL	SEE PVMT DTL
72	SAWCUT LINE; JOIN EXISTING	DTL 2, 5, 6, SHT C-600

5 TYP. ROADWAY SECTION - ANDERSON ST. STA. 31+77.39 TO STA. 34+38.85

NTS REFERENCE SHEET C-502



GENERAL NOTES:

1. SEE SHEET C-502 FOR PROPOSED DRIVEWAY OPENINGS.
2. SIDEWALK CONCRETE THICKNESS AT PROPOSED DRIVEWAYS SHALL BE 6" THICK MINIMUM.
3. EXISTING ELEVATED LANDING TO REMAIN IS LOCATED ALONG STATION 34+35.83 TO STATION 34+88.31.

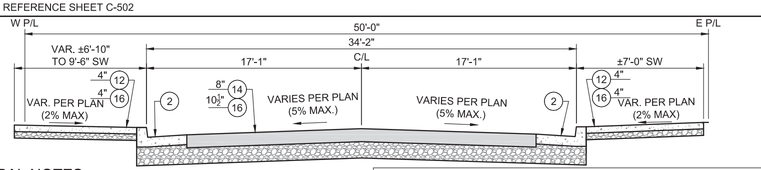
LEGEND OF CONSTRUCTION NOTES

○ CONSTRUCT [ ] EXISTING-PROTECT IN PLACE

NO.	CONSTRUCTION ITEM/NOTE	STANDARD PLAN
2	TYPE C INTEGRAL CURB & GUTTER	S-410-2
8	CONCRETE PAVEMENT	DTL 3 & 7, SHT C-600
12	CONCRETE WALK	S-444-0; DTL 4, SHT C-600
14	ASPHALT CONCRETE PAVEMENT	DTL 1, SHT C-600
16	UNTREATED BASE MATERIAL	SEE PVMT DTL
52	ELEVATED LANDING	-
72	SAWCUT LINE; JOIN EXISTING	DTL 2, 5, 6, SHT C-600

6 TYP. ROADWAY SECTION - ANDERSON ST. STA. 34+38.85 TO STA. 35+30.85

NTS REFERENCE SHEET C-502



GENERAL NOTES:

1. TYP. SECTION VARIES AT RAISED CROSSWALK LOCATION. SEE SHEET C-503 FOR ADDITIONAL INFORMATION.
2. SEE SHEET C-503 FOR CATCH BASIN LOCATIONS, INCLUDING ASSOCIATED LOCAL DEPRESSIONS.

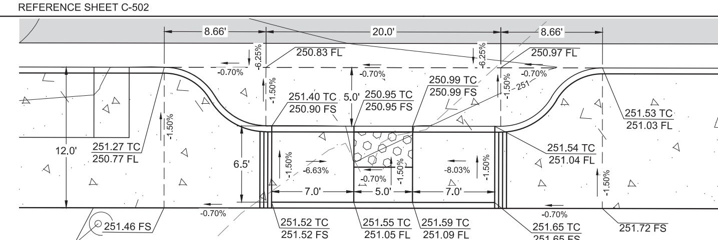
LEGEND OF CONSTRUCTION NOTES

○ CONSTRUCT [ ] EXISTING-PROTECT IN PLACE

NO.	CONSTRUCTION ITEM/NOTE	STANDARD PLAN
2	TYPE C INTEGRAL CURB & GUTTER	S-410-2
12	CONCRETE WALK	S-444-0; DTL 4, SHT C-600
14	ASPHALT CONCRETE PAVEMENT	DTL 1, SHT C-600
16	UNTREATED BASE MATERIAL	SEE PVMT DTL

7 TYP. ROADWAY SECTION - CLARENCE ST. STA. 41+77.30 TO STA. 42+33.59

NTS REFERENCE SHEET C-503



8 MISSION ROAD PASSENGER LOADING ZONE

NTS REFERENCE SHEET C-501

PLANS PREPARED BY: TETRA TECH, INC.
707 WILSHIRE BLVD, 23RD FLR.
LOS ANGELES, CA 90017
PHONE: (213) 239-8866

CITY OF LOS ANGELES — DEPARTMENT OF PUBLIC WORKS — BUREAU OF ENGINEERING

GARY LEE MOORE, P.E., ENV SP — CITY ENGINEER

DESIGN GROUP

ENGINEER: JUSTIN SMITH LIC. NO. C-85736 DATE: 07/11/22
DESIGNED BY: JUSTIN SMITH
DRAWN BY: DAVID LOPEZ
CHECKED BY: NATE SCHREINER
APPROVED BY: JASON L. FUSSEL

THIS PLAN WAS ELECTRONICALLY SIGNED AND STAMPED.

REGISTERED PROFESSIONAL ENGINEER — JUSTIN T. SMITH — No. 85736 — EXP. 9-30-22 — CIVIL — STATE OF CALIFORNIA

NO. REVISIONS: DATE: BY:

INDEX NO.

BUILDING NO.

VERT. CONTROL: BM 12-04070, 1929 (NGVD29) + 1985 ADJUSTMENT
HORIZ. CONTROL: GPS; PID AE 1704, EPOCH 1991.35

SHEET TITLE: CIVIL DETAILS SHEET 4
PROJECT: SIXTH STREET PARK, ARTS AND RIVER CONNECTIVITY IMPROVEMENTS (PARC)
ADDRESS: SIXTH STREET OVER THE LOS ANGELES RIVER

WORK ORDER NO. E700235D
FILE NO. --
DRAWING NO. C-603
SHEET 68 OF 295 SHEETS

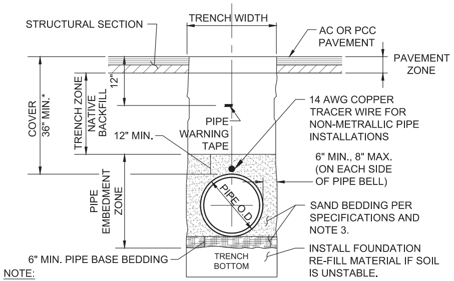
7/8/2022 2:28:24 AM - O:\PROJECTS\IRVINE\20043\200-20043-17001\CAD\SHEETFILES\C-603_DETAILS - TT.DWG - SMITH, JUSTIN

THE CITY OF LOS ANGELES OR ITS OFFICERS OR AGENTS SHALL NOT BE RESPONSIBLE FOR THE ACCURACY OR COMPLETENESS OF ELECTRONIC COPIES OF THIS PLAN SHEET.

REVISION DATES (DESIGN STAGE ONLY)

Sheet Version 3.0

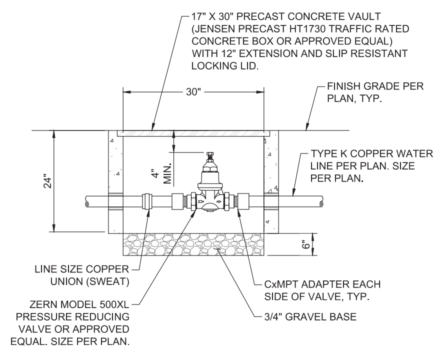
BID SET - NOT FOR CONSTRUCTION



NOTE:
1. NATIVE BACKFILL SHALL BE MOISTURE CONDITIONED PER THE PROJECT GEOTECHNICAL REPORT.
2. BACKFILL AND BEDDING SHALL BE COMPACTED PER THE PROJECT GEOTECHNICAL REPORT (90% RELATIVE COMPACTION). UPPER 12" TO BE COMPACTED TO 95% RELATIVE COMPACTION.
3. MIN. S.E. SHALL BE 30 FOR NATURAL IMPORTED MATERIALS AND 40 FOR SCREENED RECYCLED MATERIALS PER ASTM D 2419
4. WHERE PIPE MUST BE CONSTRUCTED AT DEPTHS SHALLOWER THAN 3' OF COVER, PIPE SHALL BE ENCASED IN CONCRETE PER PLAN.

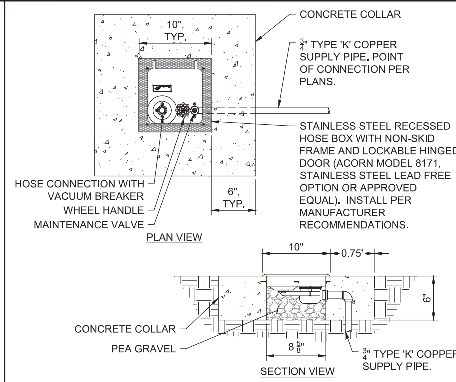
1 WATER LINE TRENCH DETAIL

NTS REFERENCE SHEET C-400 THRU C-402



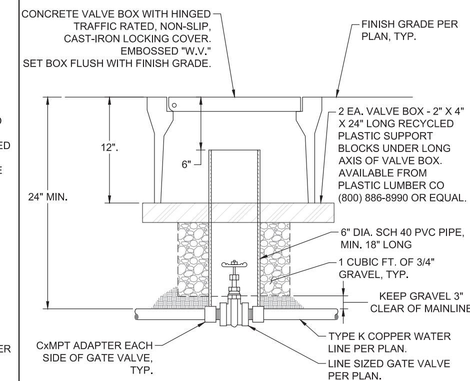
2 PRESSURE REDUCING VALVE & VAULT

NTS REFERENCE SHEET C-401



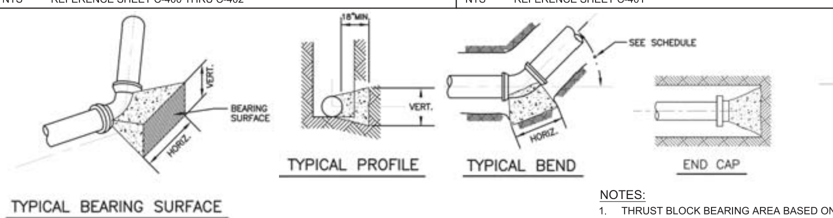
3 IN-GROUND HOSE BOX

NTS REFERENCE SHEET C-400 THRU C-402

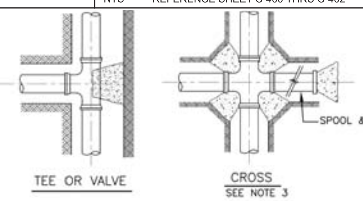


4 GATE VALVE BOX

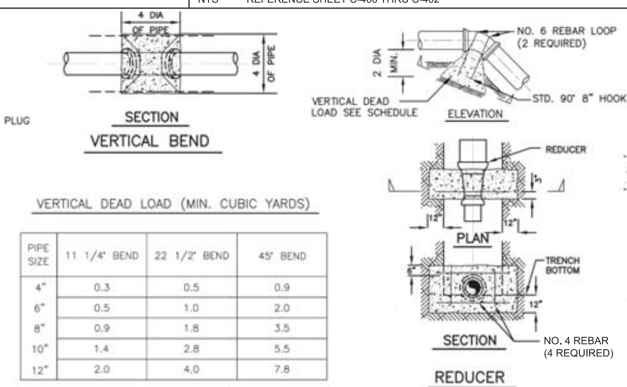
NTS REFERENCE SHEET C-400 THRU C-402



PIPE SIZE	11 1/4' BEND		22 1/2' BEND		45' BEND		90' BEND		TEE		END CAP	
	HORIZ.	VERT.	HORIZ.	VERT.	HORIZ.	VERT.	HORIZ.	VERT.	HORIZ.	VERT.	HORIZ.	VERT.
4"	1'-6"	0'-9"	1'-8"	0'-9"	2'-4"	1'-0"	3'-3"	1'-4"	2'-8"	1'-3"	2'-8"	1'-3"
6"	1'-9"	1'-0"	2'-6"	1'-3"	3'-6"	1'-6"	4'-8"	2'-3"	4'-0"	2'-0"	4'-0"	2'-0"
8"	2'-4"	1'-0"	3'-4"	1'-6"	4'-8"	2'-0"	6'-4"	3'-0"	5'-4"	2'-4"	5'-4"	2'-4"
10"	3'-0"	1'-4"	4'-3"	1'-9"	5'-9"	2'-6"	7'-10"	3'-6"	6'-8"	3'-0"	6'-8"	3'-0"
12"	3'-6"	2'-0"	5'-0"	2'-3"	6'-10"	3'-0"	9'-6"	4'-3"	7'-10"	3'-6"	7'-10"	3'-6"



NOTES:
1. THRUST BLOCK BEARING AREA BASED ON ALLOWABLE SOIL BEARING VALUE OF 1500 PSF PRESSURE AND 225 PSI LINE PRESSURE WITH 3'-0" COVER MINIMUM. FOR BEARING = 1000 PSF, (SAND) 1.5 X AREA/VOLUME SHOWN FOR BEARING = 500 PSF, (SOFT CLAY) 3.0 X AREA/VOLUME SHOWN
2. THRUST BLOCKS SHALL BE CLASS 560-C-3250 CONCRETE (CONTAINING NOT LESS THAN FIVE SACKS PER CUBIC YARD) AND PLACED AGAINST UNDISTURBED SOIL.
3. THRUST BLOCKS ON CROSSES SHALL BE USED ONLY WHEN PIPE SIZES DIFFER OR WHEN ONE OR MORE BRANCHES ARE CAPPED/STUBBED OUT. SIZE SHALL BE BASED ON THE LARGEST PIPE SIZE.
4. REINFORCING STEEL SHALL CONFORM TO ASTM A15 AND A305 INTERMEDIATE GRADE. REBAR AT VALVES AND VERTICAL BENDS SHALL BE EPOXY COATED.
5. CONCRETE SHALL NOT EXTEND ONTO FLANGE OR ADJOINING PIPE. PIPE AND FITTING JOINTS SHALL BE ACCESSIBLE FOR REPAIR.
6. THRUST BLOCK WIDTH SHALL BE BETWEEN ONE AND TWO TIMES ITS HEIGHT. THRUST BLOCK HEIGHT SHALL NOT EXCEED TRENCH HEIGHT.
7. CONTRACTOR SHALL BE RESPONSIBLE FOR DETERMINING THE SAFE SOIL BEARING VALUES AND THE POSITION AND SIZE OF BEARING AREAS.

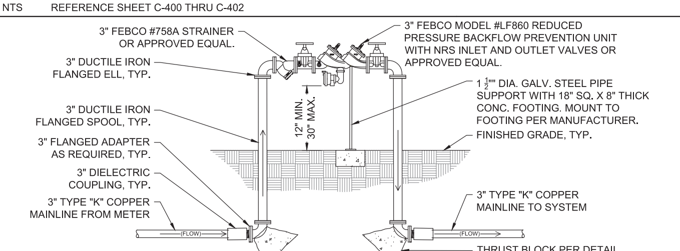


VERTICAL DEAD LOAD (MIN. CUBIC YARDS)

PIPE SIZE	11 1/4' BEND	22 1/2' BEND	45' BEND
4"	0.3	0.5	0.9
6"	0.5	1.0	2.0
8"	0.9	1.8	3.5
10"	1.4	2.8	5.5
12"	2.0	4.0	7.8

5 THRUST BLOCKS

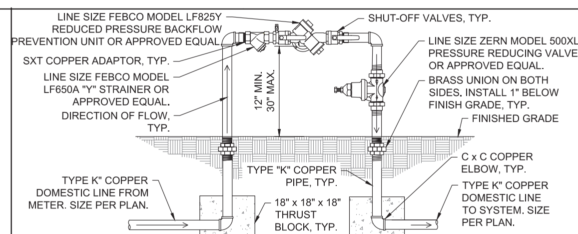
NTS REFERENCE SHEET C-400 THRU C-402



NOTES:
1. ALL BACKFLOW AND RELATED EQUIPMENT SHALL BE FLANGE MOUNTED. ALL FLANGE CONNECTIONS SHALL BE BOLTED PER MANUFACTURERS SPECIFICATIONS USING A FULL-FACE GASKET.
2. PAINT BACKFLOW DEVICE, RELATED EQUIPMENT, AND EXPOSED PIPING WITH TWO COATS OF FOREST GREEN ENAMEL PAINT - MASK ALL IDENTIFICATION TAGS.
3. THE CONTRACTOR SHALL HAVE THE BACKFLOW PREVENTER TESTED BY A CERTIFIED TESTER. A "BACKFLOW PREVENTION DEVICE TESTING REPORT" SHALL BE SUBMITTED TO THE LOS ANGELES COUNTY HEALTH DEPT AND A DUPLICATE COPY PROVIDED TO THE POLLUTION CONTROL SECTION OF THE DEPARTMENT OF WATER AND POWER; A COPY OF THE REPORT SHALL BE GIVEN TO THE PROJECT MANAGER AT THE OPERATIONAL FINAL.
4. THE PORTLAND CEMENT CONCRETE USED FOR THRUST BLOCKS SHALL BE MINIMUM 3250 PSI CONCRETE.
5. SEE BACKFLOW ENCLOSURE DETAIL.
6. THIS BACKFLOW DETAIL IS FOR THE POTABLE WATER SYSTEM. SEE IRRIGATION PLANS FOR IRRIGATION BACKFLOW DETAILS.

6 RP BACKFLOW PREVENTER ASSEMBLY (3" Ø)

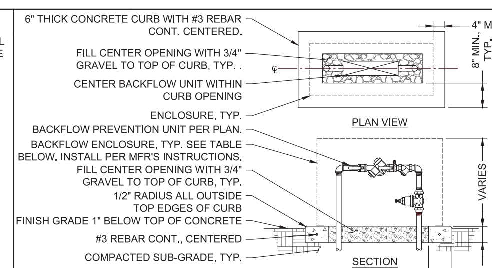
NTS REFERENCE SHEET C-400 THRU C-402



NOTES:
1. ALL PIPE AND FITTINGS SHALL BE LINE SIZE TYPE K COPPER. USE TEFLON TAPE ON ALL MALE THREADS; SWEAT FITTINGS WITH NON-LEAD SOLDER PER SECTION 308-5.2.4 OF THE S.S.P.W.C.
2. THE CONTRACTOR SHALL HAVE THE BACKFLOW PREVENTER TESTED BY A CERTIFIED TESTER. A "BACKFLOW PREVENTION DEVICE TESTING REPORT" SHALL BE SUBMITTED TO THE LOS ANGELES COUNTY HEALTH DEPT AND A DUPLICATE COPY PROVIDED TO THE POLLUTION CONTROL SECTION OF THE DEPARTMENT OF WATER AND POWER; A COPY OF THE REPORT SHALL BE GIVEN TO THE PROJECT MANAGER AT THE OPERATIONAL FINAL.
3. SEE BACKFLOW ENCLOSURE DETAIL.
4. PAINT BACKFLOW DEVICE, PRESSURE REGULATOR AN EXPOSED PIPING WITH TWO COATS OF FOREST GREEN ENAMEL PAINT. MASK ALL IDENTIFICATION TAGS AND VALVE OPERATING HANDLES.
5. THE PORTLAND CEMENT CONCRETE USED FOR THRUST BLOCKS SHALL BE MINIMUM 3250 PSI CONCRETE.
6. THIS BACKFLOW DETAIL IS FOR THE POTABLE WATER SYSTEM. SEE IRRIGATION PLANS FOR IRRIGATION BACKFLOW DETAILS.

7 RP BACKFLOW PREVENTER ASSEMBLY (<= 2" Ø)

NTS REFERENCE SHEET C-400 THRU C-402



BACKFLOW SIZE AND ENCLOSURE MODEL & CURB SIZE TABLE
ALL ENCLOSURES SHALL BE POWDER COATED DARK GREEN

DEVICE SIZE:	STRONG BOX INC. (800) 729-1314	ENCLOSURE DIMENSIONS (width x length)	LENGTH "L"
3/4" to 1"	SBBC-30CR	18" x 31.5"	40 INCHES
1-1/2" to 2"	SBBC-45CR	18" x 46.5"	55 INCHES
2-1/2" to 3"	SBBC-75CR	25.5" x 76.5"	85 INCHES

ENCLOSURE MOUNTING HARDWARE: REFER TO MANUFACTURER'S INSTALLATION INSTRUCTIONS BEFORE POURING CONC. CURB.

8 BACKFLOW PREVENTER ENCLOSURE

NTS REFERENCE SHEET C-400 THRU C-402

REVISION DATES (DESIGN STAGE ONLY)

Sheet Version 3.0

PLANS PREPARED BY:
TETRA TECH, INC.
707 WILSHIRE BLVD. 23RD FLR.
LOS ANGELES, CA 90017
PHONE: (213) 239-8866

VERT. CONTROL: BM 12-04070, 1929 (NGVD29) • 1985 ADJUSTMENT
HORIZ. CONTROL: GPS: PID AE 1704, EPOCH 1991.35

SHEET TITLE: CIVIL DETAILS SHEET 5
PROJECT: SIXTH STREET PARK, ARTS AND RIVER CONNECTIVITY IMPROVEMENTS (PARC)
ADDRESS: SIXTH STREET OVER THE LOS ANGELES RIVER

CITY OF LOS ANGELES DEPARTMENT OF PUBLIC WORKS BUREAU OF ENGINEERING

GARY LEE MOORE, P.E., ENV SP — CITY ENGINEER
DESIGN GROUP — DATE:
ENGINEER: JUSTIN SMITH — LIC. NO. C-85736 — 07/11/22
DESIGNED BY: JUSTIN SMITH
DRAWN BY: DAVID LOPEZ
CHECKED BY: NATE SCHREINER
APPROVED BY: JASON L. FUSSEL

THIS PLAN WAS ELECTRONICALLY SIGNED AND STAMPED.
REGISTERED PROFESSIONAL ENGINEER JUSTIN T. SMITH No. 85736 EXP. 9-30-22 CIVIL STATE OF CALIFORNIA

NO. REVISIONS: DATE BY:
INDEX NO.
BUILDING NO.
ENGINEERING CITY OF LOS ANGELES

WORK ORDER NO. E700235D
FILE NO. --
DRAWING NO. C-604
SHEET 69 OF 295 SHEETS

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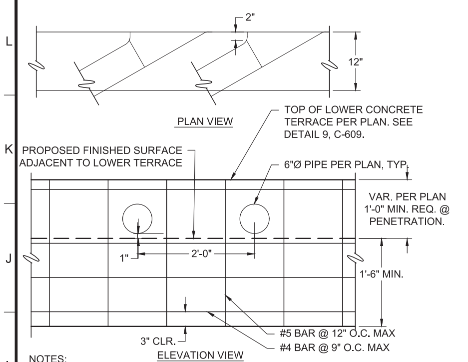
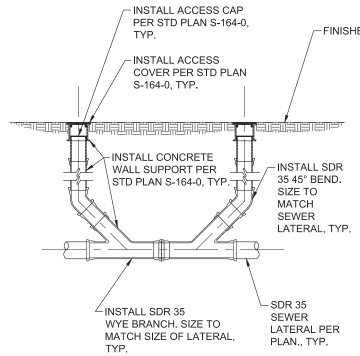


NOTES:
ADJUST REINFORCEMENT AT PENETRATION LOCATIONS.

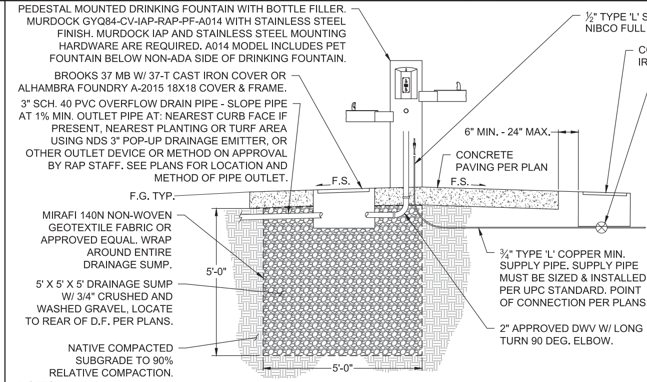
1 PIPE PENETRATION @ TERRACE

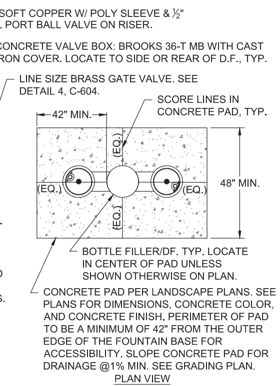
NTS REFERENCE SHEET C-404



2 TWO-WAY SEWER CLEANOUT

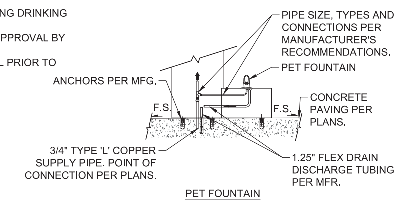
NTS REFERENCE SHEET C-415 THRU C-416





NOTES:

1. INSTALL PER DETAIL. REFER TO MANUFACTURER'S INSTRUCTION FOR PLUMBING AND MOUNTING DRINKING FOUNTAIN UNIT.
2. CONTRACTOR SHALL SUBMIT LOCATION FOR SUMP AND OVERFLOW DRAINAGE LAYOUT FOR APPROVAL BY PROJECT MANAGER PRIOR TO BEGINNING EXCAVATION.
3. CONTRACTOR TO SUBMIT SHOP DRAWINGS TO THE CITY'S PROJECT MANAGER FOR APPROVAL PRIOR TO FABRICATION AND INSTALLATION.
4. REFER TO SHEET L-543 FOR ADDITIONAL DRINKING FOUNTAIN LAYOUT INFORMATION.

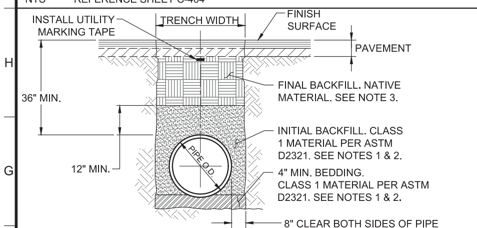


3 DRINKING FOUNTAIN AND SUMP

NTS REFERENCE SHEET C-400 THRU C-402

DOMESTIC LINE STERILIZATION PROCEDURE:

1. FLUSH DOMESTIC WATER LINES COMPLETELY.
2. USING A PROPORTIONING PUMP, INJECT SODIUM HYPOCHLORITE LIQUID DISINFECTANT INTO THE DOMESTIC LINE THROUGH A ¾" SERVICE COCK AT A POINT AS CLOSE TO THE WATER METER AS POSSIBLE.
3. OPEN BUBBLERS ON ALL D.F. UNITS INSTALLED TO DISTRIBUTE DISINFECTANT THROUGHOUT THE DOMESTIC LINE SYSTEM.
4. VERIFY BY TESTING THAT A MINIMUM CONCENTRATION OF 50 PPM OF DISINFECTANT IS ACHIEVED AT EACH D.F. UNIT.
5. DISINFECTANT SHALL REMAIN IN THE SYSTEM FOR 24 HOURS MINIMUM.
6. AT THE END OF THE 24 HOUR PERIOD, THE RESIDUAL LEVEL OF DISINFECTANT SHALL NOT BE LESS THAN 10 PPM.
7. ALL LINES SHALL BE FLUSHED THOROUGHLY AFTER DISINFECTION IS COMPLETED.
8. A WATER SAMPLE AT EACH D.F. UNIT SHALL BE TESTED BY AN APPROVED TESTING LABORATORY. REQUIRED RESULTS ARE:
   - COLIFORM-AEROGENES ORGANISMS: NEGATIVE
   - TOTAL BACTERIA PLATE COUNT: LESS THAN 100 PER CUBIC CENTIMETER
   - WATER POTABILITY: SAFE TO USE
9. IF THE REQUIRED RESULTS ARE NOT MET, STERILIZATION PROCESS LISTED ABOVE SHALL BE REPEATED UNTIL THE REQUIRED TEST RESULTS ARE MET

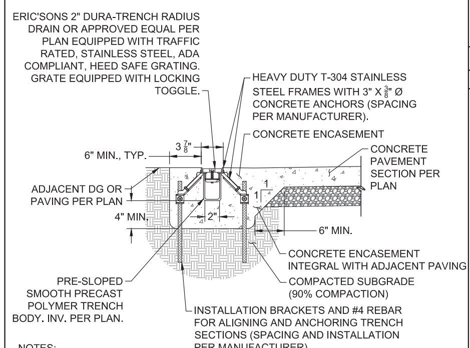


NOTE:

1. INSTALL NON-WOVEN 180N GEOTEXTILE (MIRAFI OR APPROVED EQUAL) AROUND BEDDING AND INITIAL BACKFILL. OVERLAP 6" MINIMUM.
2. BEDDING AND INITIAL BACKFILL TO BE COMPACTED TO AT LEAST 90% OF THE MAXIMUM DRY DENSITY.
3. NON-EXPANSIVE GRANULAR ON-SITE SOIL FREE OF DEBRIS, ORGANICS, OVERSIZED MATERIAL (LARGER THAN 3 INCHES), AND OTHER DELETERIOUS MATERIALS MAY BE USED FOR FINAL BACKFILL. BACKFILL SHALL BE MOISTURE CONDITIONED TO 3 PERCENT ABOVE THE OPTIMUM MOISTURE CONTENT AND COMPACTED TO AT LEAST 90% OF THE MAXIMUM DRY DENSITY. THE UPPER 12" SHALL BE MOISTURE CONDITIONED TO 2 PERCENT ABOVE THE OPTIMUM MOISTURE CONTENT AND COMPACTED TO AT LEAST 95% OF THE MAXIMUM DRY DENSITY.

4 STORM DRAIN TRENCH

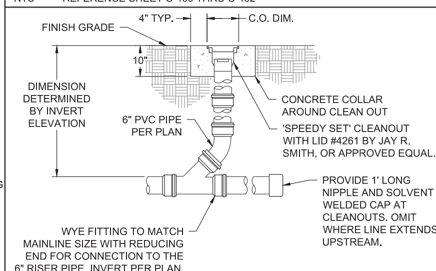
NTS REFERENCE SHEET C-403 THRU C-411



NOTES:
1. TRENCH DRAIN MUST BE ⅛" BELOW FINISHED CONCRETE GRADE

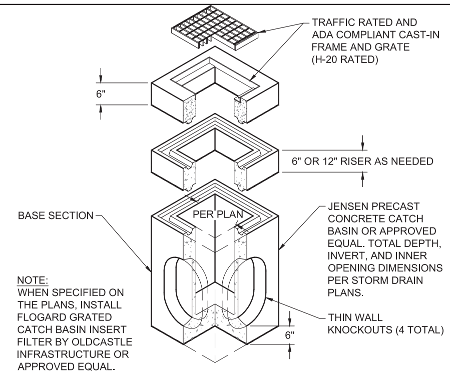
5 RADIUS TRENCH DRAIN

NTS REFERENCE SHEET C-403 & C-411



6 STORM DRAIN CLEANOUT

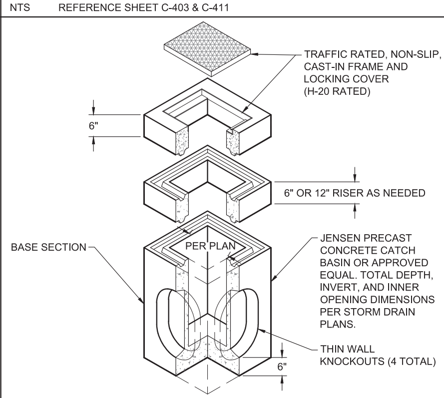
NTS REFERENCE SHEET C-403 THRU C-411



NOTE:
WHEN SPECIFIED ON THE PLANS, INSTALL FLOGARD GRATED CATCH BASIN INSERT FILTER BY OLDCASTLE INFRASTRUCTURE OR APPROVED EQUAL.

7 PRECAST GRATED CATCH BASIN

NTS REFERENCE SHEET C-403 THRU C-411



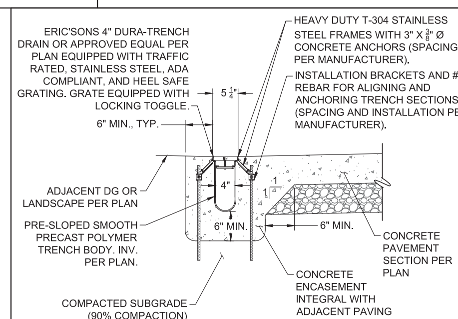
8 CONCRETE JUNCTION STRUCTURE

NTS REFERENCE SHEET C-403 THRU C-411

NOTE:
STENCIL OR PLACARD SHALL BE PLACED ON TOP OF CURB AT ALL INLETS.

9 NO DUMPING STENCIL

NTS REFERENCE SHEET C-403 THRU C-411



NOTES:
1. TRENCH DRAIN MUST BE ⅛" BELOW FINISHED CONCRETE GRADE

10 STANDARD TRENCH DRAIN

NTS REFERENCE SHEET C-403 THRU C-411

PLANS PREPARED BY:
TETRA TECH, INC.
707 WILSHIRE BLVD. 23RD FLR.
LOS ANGELES, CA 90017
PHONE: (213) 239-8866

CITY OF LOS ANGELES — DEPARTMENT OF PUBLIC WORKS — BUREAU OF ENGINEERING

ENGINEERING — CITY OF LOS ANGELES

GARY LEE MOORE, P.E., ENV SP — CITY ENGINEER

DESIGN GROUP		
ENGINEER: JUSTIN SMITH	LIC. NO.: C-85736	DATE: 07/11/22
DESIGNED BY: JUSTIN SMITH		
DRAWN BY: DAVID LOPEZ		
CHECKED BY: NATE SCHREINER		
APPROVED BY: JASON L. FUSSEL		

THIS PLAN WAS ELECTRONICALLY SIGNED AND STAMPED

REGISTERED PROFESSIONAL ENGINEER — JUSTIN T. SMITH — No. 85736 — EXP. 9-30-22 — CIVIL — STATE OF CALIFORNIA

VERT. CONTROL: BM 12-04070, 1929 (NGVD29) • 1985 ADJUSTMENT
HORIZ. CONTROL: GPS: PID AE 1704, EPOCH 1991.35

SHEET TITLE: CIVIL DETAILS SHEET 6
PROJECT: SIXTH STREET PARK, ARTS AND RIVER CONNECTIVITY IMPROVEMENTS (PARC)
ADDRESS: SIXTH STREET OVER THE LOS ANGELES RIVER

NO.	REVISIONS:	DATE:	BY:

INDEX NO.
BUILDING NO.

WORK ORDER NO. E700235D
FILE NO. --
DRAWING NO. C-605
SHEET 70 OF 295 SHEETS

REVISION DATES (DESIGN STAGE ONLY)

Sheet Version 3.0

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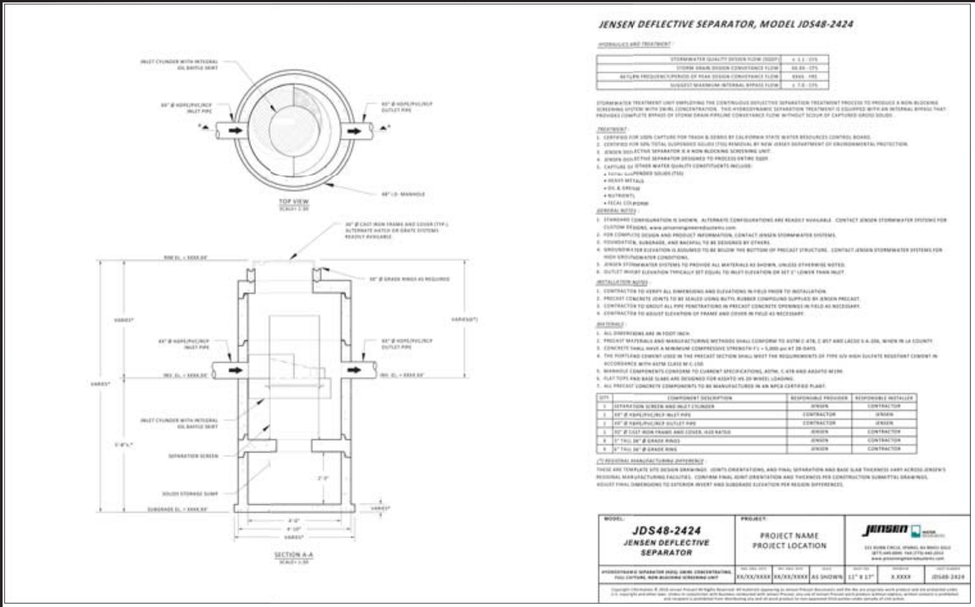
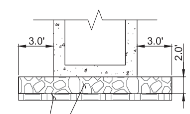


NOTE:
1. HYDRODYNAMIC SEPARATOR SHALL BE JENSEN PRECAST MODEL JDS48-2424 OR APPROVED EQUAL.
2. REFER TO THE PLANS FOR PIPE SIZES, PIPE TYPES, INVERT ELEVATIONS, RIM ELEVATIONS, ETC. FINAL PRECAST SECTION DIMENSIONS PER MANUFACTURER. RIM ELEVATION TO SUMP ELEVATION SHALL NOT EXCEED 25 FEET.
3. SUMP OPENING SHALL BE 18" IN DIAMETER MINIMUM.
4. STANDARD DETAIL SHALL BE MODIFIED SO THAT THE 30" Ø FRAME AND COVER IS CENTERED IN THE TOP SLAB.
5. REFER TO DETAIL 2, THIS SHEET FOR OVEREXCAVATION AND SUBGRADE PREPARATION REQUIREMENTS.
6. PRIOR TO INSTALLING THE SEPARATION SLAB OVER THE SOLID STORAGE SUMP, THE CONTRACTOR SHALL APPLY CEMENT MORTAR ($\frac{1}{2}$" MINIMUM THICKNESS) TO THE BASE OF THE SUMP STORAGE TO SLOPE THE SURFACE 2% MINIMUM TO THE CENTER OF THE STRUCTURE.
7. CONTRACTOR SHALL APPLY CEMENT MORTAR ($\frac{1}{2}$" MINIMUM THICKNESS) TO THE TOP OF THE SEPARATION SLAB OVER THE SOLID STORAGE SUMP TO SLOPE THE SURFACE 2% MINIMUM TO OUTLET SIDE OF THE STRUCTURE.

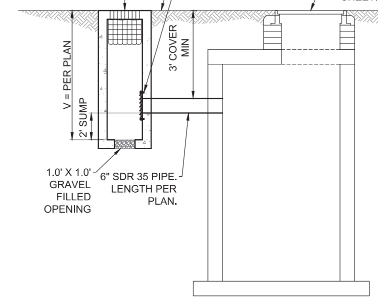
1 HYDRODYNAMIC SEPARATOR TYPE 1

NTS REFERENCE SHEET C-403 THRU C-411



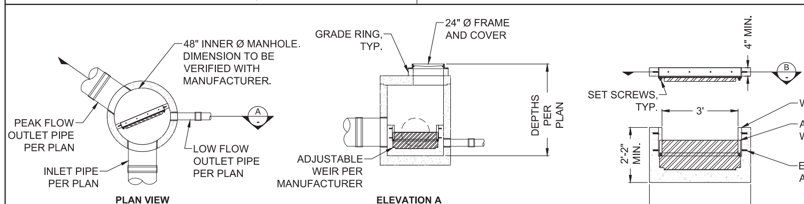
2 SUBGRADE PREPARATION

NTS REFERENCE SHEET C-403 THRU C-411, C-610



5 AIR VENTING THROUGH CATCH BASIN

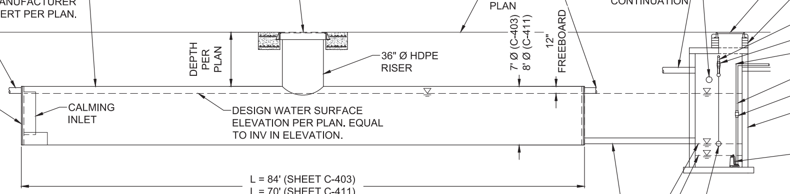
NTS REFERENCE SHEET C-403 & C-411



NOTE:
1. FOR THE PURPOSES OF CLARITY IN THIS DRAWING THE CONTECH PRECAST CONCRETE STORMGATE MANHOLE UNIT HAS BEEN SHOWN. SEE PROJECT SPECIFICATIONS FOR ALTERNATIVE APPROVED PRODUCTS AND PRODUCT REQUIREMENTS.
2. OVEREXCAVATE AND PREPARE SUBGRADE PER DETAIL 2, THIS SHEET.
3. REFER TO SPECIFICATIONS FOR ADDITIONAL PERFORMANCE REQUIREMENTS.

3 DIVERSION MANHOLE

NTS REFERENCE SHEET C-403 & C-411



MIN. STORAGE VOLUME (SHEET C-403) = 20,750 GALLONS
MIN. STORAGE VOLUME (SHEET C-411) = 23,350 GALLONS
LOADING = H20/H25

4 STORMWATER STORAGE TANK AND WET WELL

NTS REFERENCE SHEET C-403 & C-411

PLANS PREPARED BY:
TETRA TECH, INC.
707 WILSHIRE BLVD. 23RD FLR.
LOS ANGELES, CA 90017
PHONE: (213) 239-8866

CITY OF LOS ANGELES — DEPARTMENT OF PUBLIC WORKS — BUREAU OF ENGINEERING

VERT. CONTROL:	BM 12-04070, 1929 (NGVD29) + 1985 ADJUSTMENT
HORIZ. CONTROL:	GPS: PID AE 1704, EPOCH 1991.35
SHEET TITLE:	CIVIL DETAILS SHEET 7
PROJECT:	SIXTH STREET PARK, ARTS AND RIVER CONNECTIVITY IMPROVEMENTS (PARC)
ADDRESS:	SIXTH STREET OVER THE LOS ANGELES RIVER

GARY LEE MOORE, P.E., ENV SP — CITY ENGINEER
DESIGN GROUP

ENGINEER:	JUSTIN SMITH	LIC. NO. C-85736 DATE: 07/11/22
DESIGNED BY:	JUSTIN SMITH	
DRAWN BY:	DAVID LOPEZ	
CHECKED BY:	NATE SCHREINER	
APPROVED BY:	JASON L. FUSSEL	

REGISTERED PROFESSIONAL ENGINEER — JUSTIN T. SMITH — No. 85736 — EXP. 9-30-22 — CIVIL — STATE OF CALIFORNIA

THIS PLAN WAS ELECTRONICALLY SIGNED AND STAMPED.

NO.	REVISIONS:	DATE:	BY:

INDEX NO.

BUILDING NO.

ENGINEERING — CITY OF LOS ANGELES

WORK ORDER NO. E700235D
FILE NO. --
DRAWING NO. C-606
SHEET 71 OF 295 SHEETS

7/8/2022 3:14:09 PM - O:\PROJECTS\IRVINE\2004\3\200-20043-17001\CAD\SHEETFILES\C-606_DETAILS - TT.DWG - SMITH, JUSTIN

REVISION DATES (DESIGN STAGE ONLY)

Sheet Version 3.0

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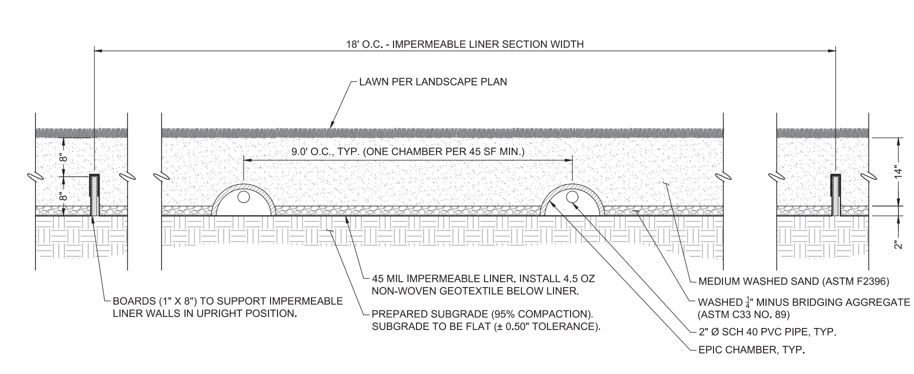
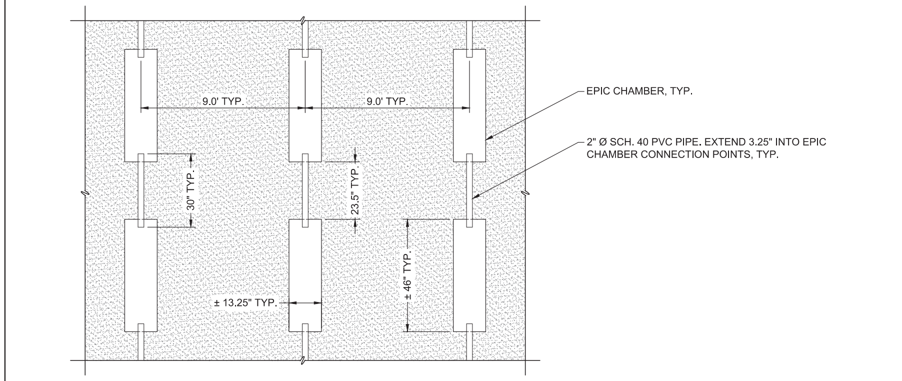


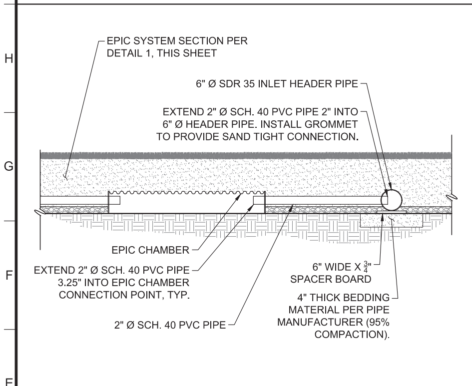
1 EPIC SYSTEM - TYPICAL SECTION VIEW

NTS REFERENCE SHEET C-403 & C-411



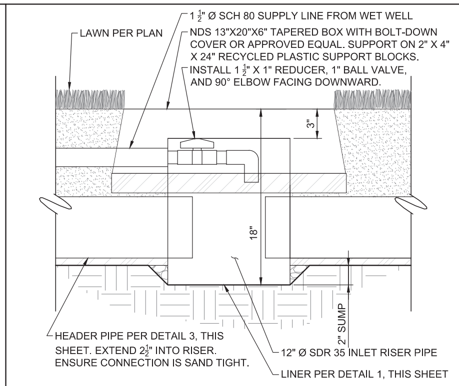
2 EPIC SYSTEM - TYPICAL PLAN VIEW

NTS REFERENCE SHEET C-403 & C-411



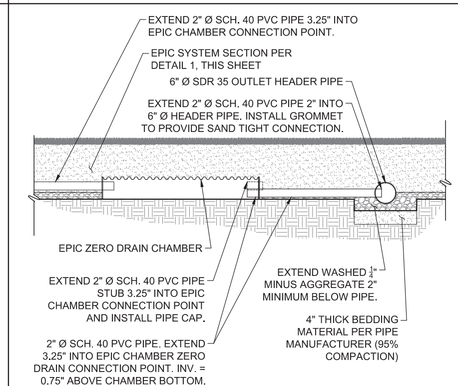
3 EPIC SYSTEM - INLET HEADER PIPE

NTS REFERENCE SHEET C-403 & C-411



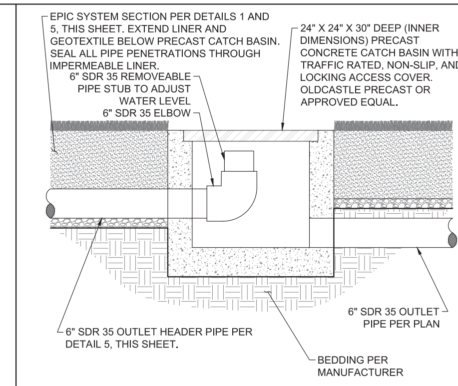
4 EPIC SYSTEM - INLET STRUCTURE

NTS REFERENCE SHEET C-403 & C-411



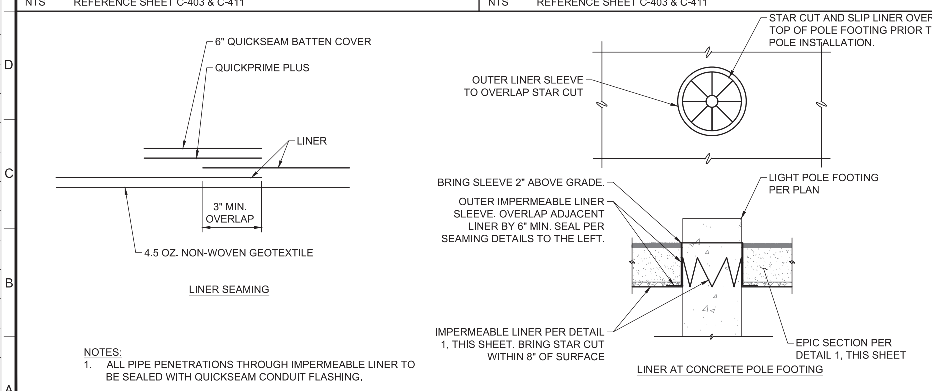
5 EPIC SYSTEM - OUTLET HEADER PIPE

NTS REFERENCE SHEET C-403 & C-411



6 EPIC SYSTEM - OUTLET STRUCTURE

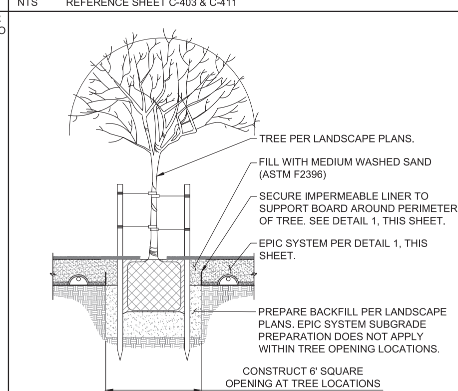
NTS REFERENCE SHEET C-403 & C-411



NOTES:
1. ALL PIPE PENETRATIONS THROUGH IMPERMEABLE LINER TO BE SEALED WITH QUICKSEAM CONDUIT FLASHING.

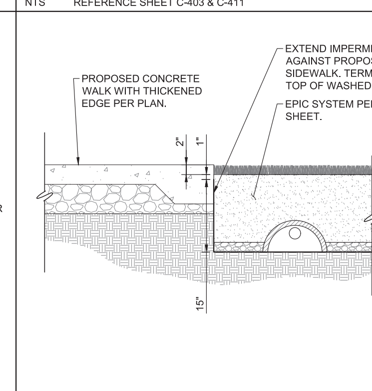
7 EPIC SYSTEM - LINER PENETRATION AND SEAMING DETAILS

NTS REFERENCE SHEET C-403 & C-411



8 EPIC SYSTEM - TREE LOCATIONS

NTS REFERENCE SHEET C-403 & C-411



9 EPIC SYSTEM - PERIMETER

NTS REFERENCE SHEET C-403 & C-411

PLANS PREPARED BY:
TETRA TECH, INC.
707 WILSHIRE BLVD, 23RD FLR.
LOS ANGELES, CA 90017
PHONE: (213) 239-8866

CITY OF LOS ANGELES DEPARTMENT OF PUBLIC WORKS BUREAU OF ENGINEERING

VERT. CONTROL: BM 12-04070, 1929 (NGVD29) - 1985 ADJUSTMENT
HORIZ. CONTROL: GPS: PID AE 1704, EPOCH 1991.35

SHEET TITLE: CIVIL DETAILS SHEET 8
PROJECT: SIXTH STREET PARK, ARTS AND RIVER CONNECTIVITY IMPROVEMENTS (PARC)
ADDRESS: SIXTH STREET OVER THE LOS ANGELES RIVER

WORK ORDER NO. E700235D
FILE NO. --
DRAWING NO. C-607
SHEET 72 OF 295 SHEETS

GARY LEE MOORE, P.E., ENV SP — CITY ENGINEER
DESIGN GROUP — DATE:
ENGINEER: JUSTIN SMITH — LIC. NO. C-85736 — 07/11/22
DESIGNED BY: JUSTIN SMITH
DRAWN BY: DAVID LOPEZ
CHECKED BY: NATE SCHREINER
APPROVED BY: JASON L. FUSSEL

THIS PLAN WAS ELECTRONICALLY SIGNED AND STAMPED.
REGISTERED PROFESSIONAL ENGINEER — JUSTIN T. SMITH — No. 85736 — EXP. 9-30-22 — CIVIL — STATE OF CALIFORNIA

NO.	REVISIONS	DATE	BY

BUILDING NO.
INDEX NO.

ENGINEERING — CITY OF LOS ANGELES

REVISION DATES (DESIGN STAGE ONLY)

Sheet Version 3.0

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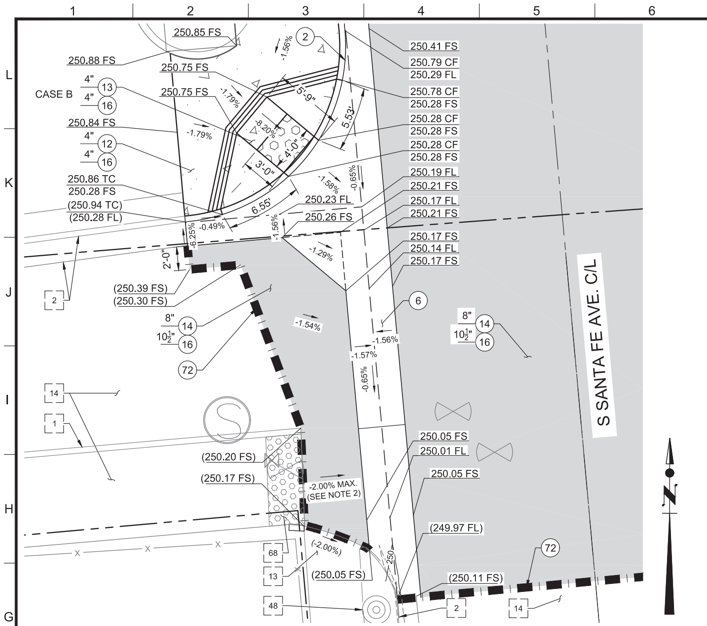
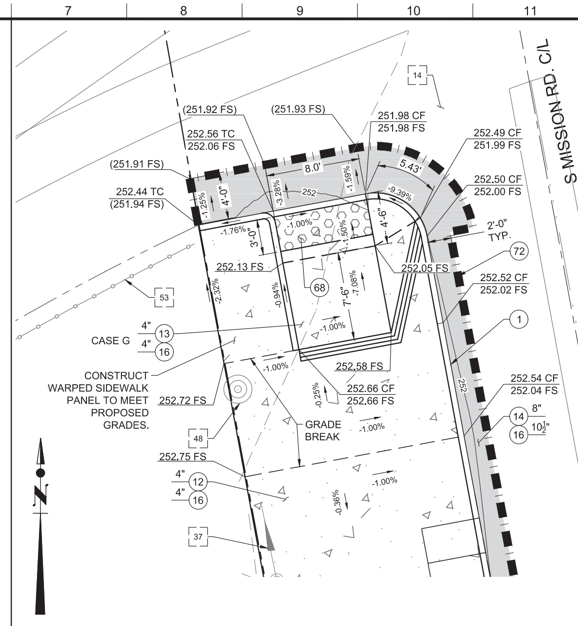


1 SANTA FE AVE. - WESTERN ADA RAMP

1"=5' REFERENCE SHEET C-500



2 MISSION RD. - WESTERN ADA RAMP

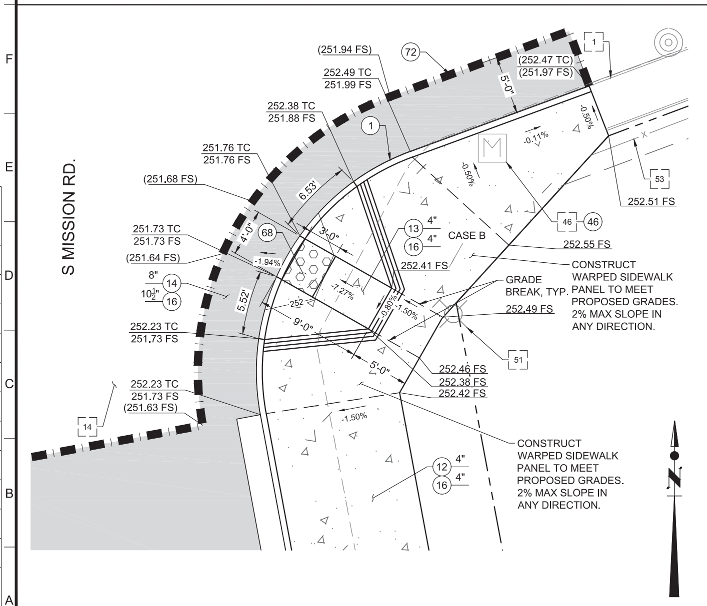
1"=5' REFERENCE SHEET C-501

LEGEND OF CONSTRUCTION NOTES		
NO.	CONSTRUCTION ITEM/NOTE	STANDARD PLAN
1	TYPE A CONCRETE CURB	S-410-2
2	TYPE C INTEGRAL CURB & GUTTER	S-410-2
6	CONCRETE INTERSECTION GUTTER	S-410-2
12	CONCRETE WALK	S-444-0; DTL 4, SHT C-600
13	CURB RAMP	S-442-6
14	ASPHALT CONCRETE PAVEMENT	DTL 1, SHT C-600
16	UNTREATED BASE MATERIAL	SEE PVMT DTL
28	CURB AND SIDEWALK JOINT	SPPWC 112-2
37	POLE ANCHOR	-
46	WATER METER	-
48	POWER POLE	-
51	LIGHT POLE	-
53	FENCE	-
68	DETECTABLE WARNING SURFACE	DTL 8, SHT C-601
72	SAWCUT LINE; JOIN EXISTING	DTL 2, 5, 6, SHT C-600

Legend symbols: CONSTRUCT; WORK BY OTHERS; REMOVE; EXISTING-PROTECT IN PLACE; REMODEL; REMOVE & RECONSTRUCT

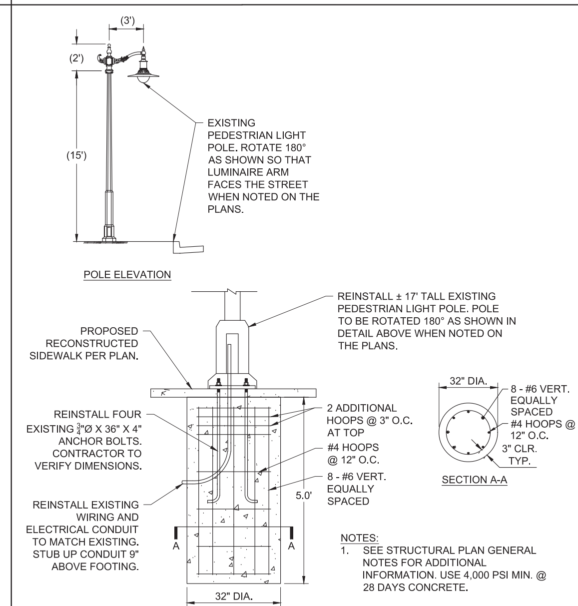
GENERAL NOTES:

1. SEE SHEETS C-500 THROUGH C-503 FOR FULL STREET IMPROVEMENTS.
2. PROVIDE 4 FT. MIN. WIDE PATHWAY WITH 2.00% MAX. CROSS SLOPE.
3. THESE GENERAL NOTES AND THE CONSTRUCTION NOTES ABOVE APPLY TO DETAILS 1 THROUGH 3 ON THIS SHEEET.



3 MISSION RD. - EASTERN ADA RAMP

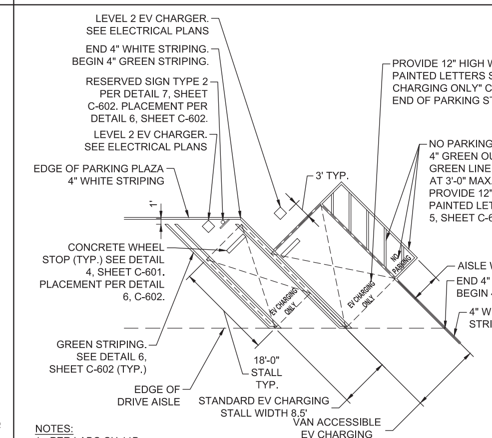
1"=5' REFERENCE SHEET C-501



NOTES:
1. SEE STRUCTURAL PLAN GENERAL NOTES FOR ADDITIONAL INFORMATION. USE 4,000 PSI MIN. @ 28 DAYS CONCRETE.

4 REINSTALL PEDESTRIAN LIGHT POLE

NTS REFERENCE SHEET C-502



NOTES:
1. PER LABC CH 11B.

5 EV CHARGING SPACES

NTS REFERENCE SHEET C-502 & C-507

PLANS PREPARED BY: TETRA TECH, INC.
707 WILSHIRE BLVD, 23RD FLR.
LOS ANGELES, CA 90017
PHONE: (213) 239-8866

CITY OF LOS ANGELES — DEPARTMENT OF PUBLIC WORKS — BUREAU OF ENGINEERING

VERT. CONTROL: BM 12-04070, 1929 (NGVD29) • 1985 ADJUSTMENT
HORIZ. CONTROL: GPS; PID AE 1704, EPOCH 1991.35

SHEET TITLE: CIVIL DETAILS SHEET 9
PROJECT: SIXTH STREET PARK, ARTS AND RIVER CONNECTIVITY IMPROVEMENTS (PARC)
ADDRESS: SIXTH STREET OVER THE LOS ANGELES RIVER

GARY LEE MOORE, P.E., ENV SP — CITY ENGINEER
DESIGN GROUP
ENGINEER: JUSTIN SMITH LIC. NO. C-85736 DATE: 07/11/22
DESIGNED BY: JUSTIN SMITH
DRAWN BY: DAVID LOPEZ
CHECKED BY: NATE SCHREINER
APPROVED BY: JASON L. FUSSEL

THIS PLAN WAS ELECTRONICALLY SIGNED AND STAMPED.
REGISTERED PROFESSIONAL ENGINEER — JUSTIN T. SMITH — No. 85736 — EXP. 9-30-22 — CIVIL — STATE OF CALIFORNIA

NO. REVISIONS: DATE: BY:
INDEX NO.
BUILDING NO.

WORK ORDER NO. E700235D
FILE NO. --
DRAWING NO. C-608
SHEET 73 OF 295 SHEETS

7/8/2022 2:30:06 PM - O:\PROJECTS\IRVINE\20043\200-20043-17001\CAD\SHEETFILES\C-608_CURB RAMP DETAIL - TT.DWG - SMITH, JUSTIN

REVISION DATES (DESIGN STAGE ONLY)

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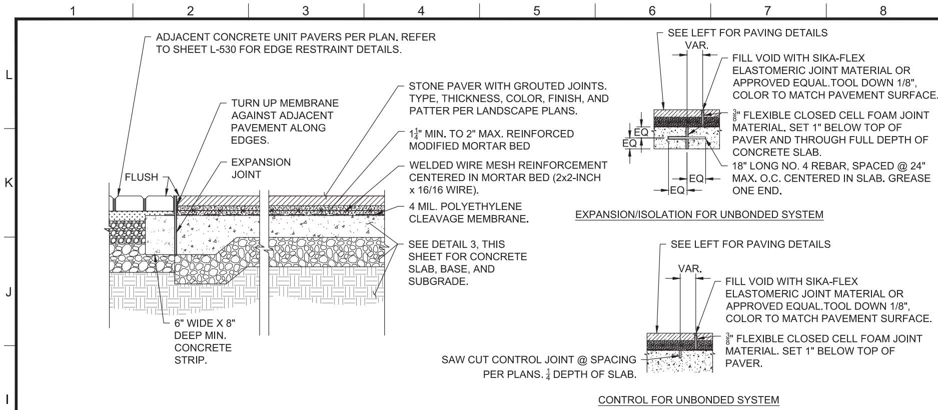
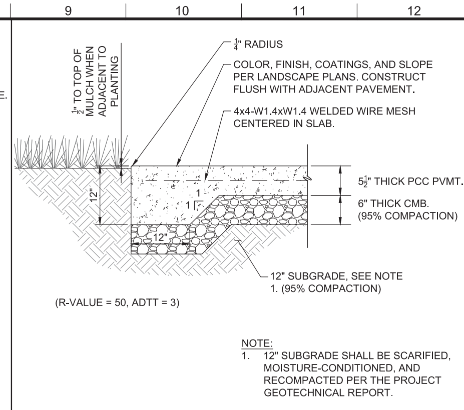


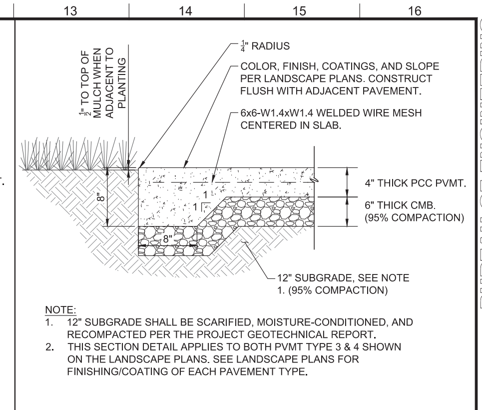
1 GRANITE UNIT PAVING (PVMT 1)

NTS REFERENCE SHEET L-131 THRU L-135



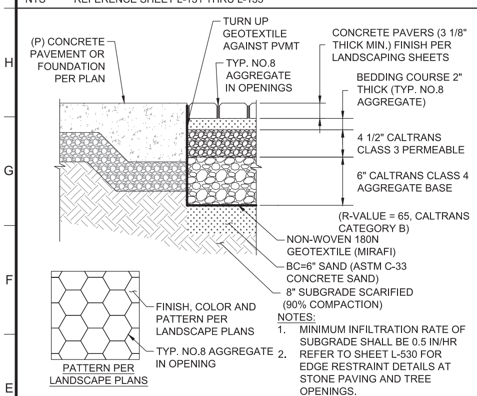
2 CONC PAVEMENT (PVMT 2)

NTS REFERENCE SHEET L-131 THRU L-135



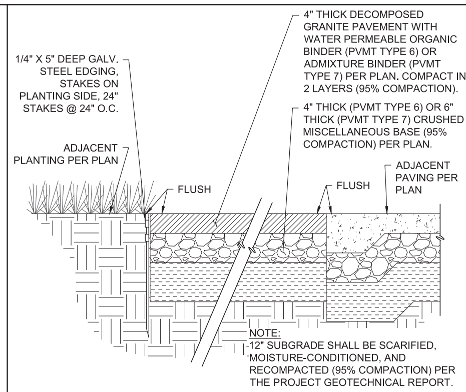
3 CONCRETE PAVEMENT (PVMT 3 & 4)

NTS REFERENCE SHEET L-131 THRU L-135



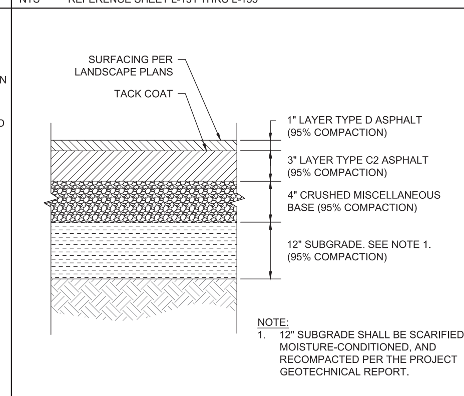
4 CONC UNIT PAVING (PVMT 5)

NTS REFERENCE SHEET L-131 THRU L-135



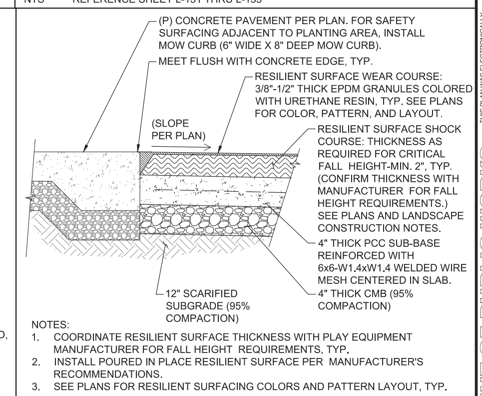
5 DECOMPOSED GRANITE (PVMT 6 & 7)

NTS REFERENCE SHEET L-131 THRU L-135



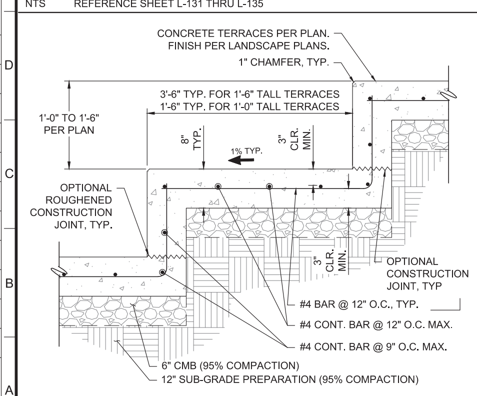
6 SPORTS COURT (PVMT 9)

NTS REFERENCE SHEET L-131 THRU L-135



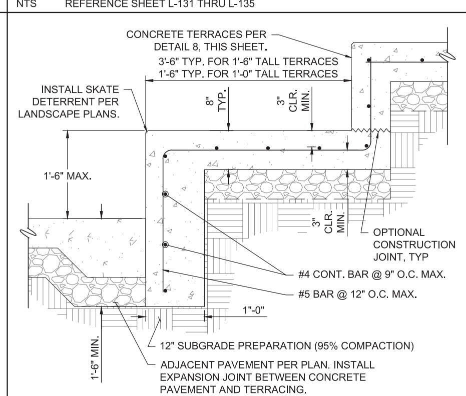
7 SAFETY SURFACING (PVMT 10)

NTS REFERENCE SHEET L-131 THRU L-135



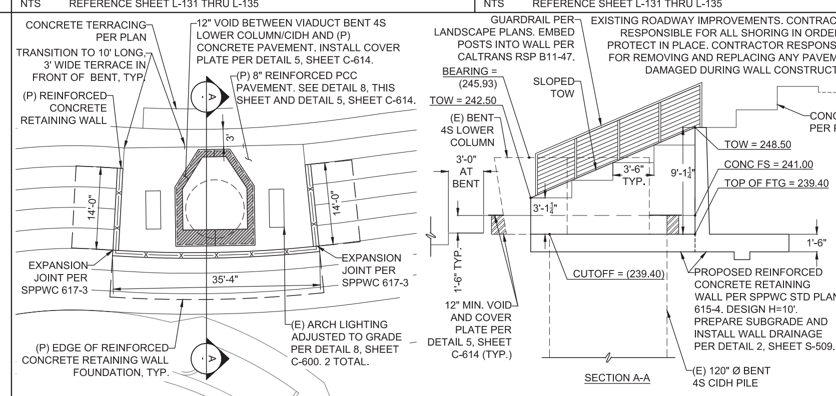
8 CONCRETE TERRACE TYP. SECTION

NTS REFERENCE SHEET L-132



9 CONCRETE TERRACE BASE SECTION

NTS REFERENCE SHEET L-132



10 ARTS PLAZA TERRACE AT BENT 4S

NTS REFERENCE SHEET L-132

PLANS PREPARED BY:

TETRA TECH, INC.
707 WILSHIRE BLVD, 23RD FLR.
LOS ANGELES, CA 90017
PHONE: (213) 239-8866

CITY OF LOS ANGELES — DEPARTMENT OF PUBLIC WORKS — BUREAU OF ENGINEERING

ENGINEERING — CITY OF LOS ANGELES

GARY LEE MOORE, P.E., ENV SP — CITY ENGINEER

DESIGN GROUP

ENGINEER:	JUSTIN SMITH	LIC. NO.: C-85736	DATE: 07/11/22
DESIGNED BY:	JUSTIN SMITH		
DRAWN BY:	DAVID LOPEZ		
CHECKED BY:	NATE SCHREINER		
APPROVED BY:	JASON L. FUSSEL		

THIS PLAN WAS ELECTRONICALLY SIGNED AND STAMPED

REGISTERED PROFESSIONAL ENGINEER — JUSTIN T. SMITH — No. 85736 — EXP. 9-30-22 — CIVIL — STATE OF CALIFORNIA

NO. REVISIONS: | DATE | BY:

INDEX NO. | BUILDING NO.

VERT. CONTROL: BM 12-04070, 1929 (NGVD29) + 1985 ADJUSTMENT
HORIZ. CONTROL: GPS: PID AE 1704, EPOCH 1991.35

SHEET TITLE: CIVIL DETAILS SHEET 10

PROJECT: SIXTH STREET PARK, ARTS AND RIVER CONNECTIVITY IMPROVEMENTS (PARC)

ADDRESS: SIXTH STREET OVER THE LOS ANGELES RIVER

WORK ORDER NO. E700235D
FILE NO. --
DRAWING NO. C-609
SHEET 74 OF 295 SHEETS

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REVISION DATES (DESIGN STAGE ONLY)

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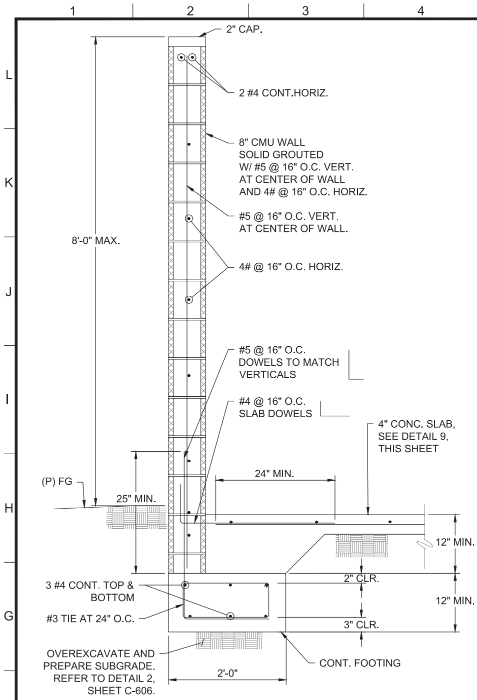
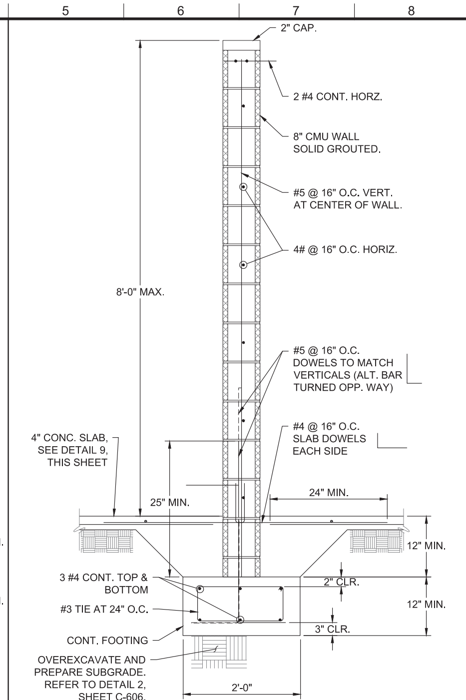


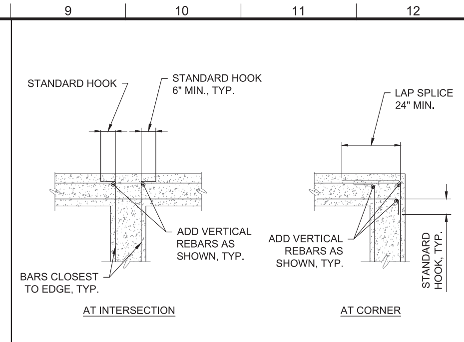
1 TYPICAL MASONRY BACKWALL

NTS REFERENCE SHEET L-142 THRU L-145



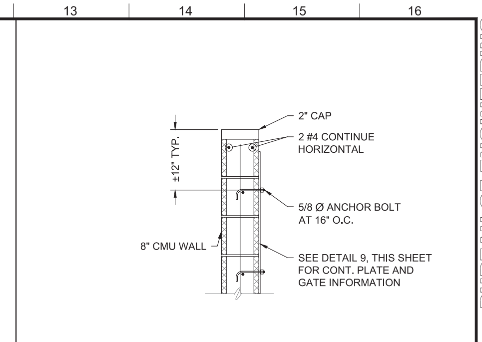
2 INTERIOR MASONRY WALL

NTS REFERENCE SHEET L-142 THRU L-145



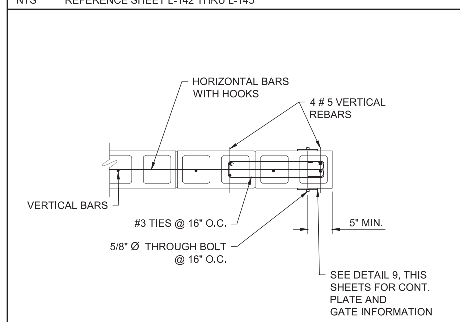
3 TYPICAL CONTINUOUS FOOTING

NTS REFERENCE SHEET L-142 THRU L-145



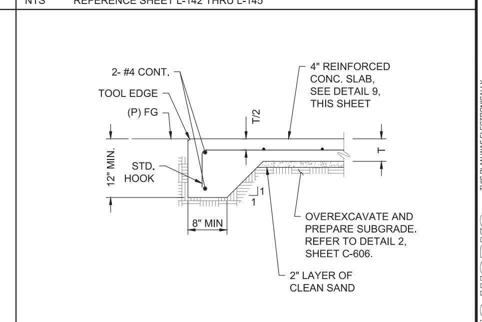
4 EXTERIOR MASONRY WALL ANCHOR

NTS REFERENCE SHEET L-142 THRU L-145



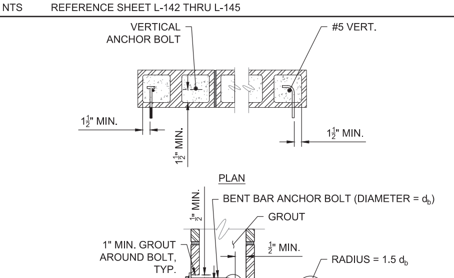
5 MIDDLE MASONRY WALL ANCHOR

NTS REFERENCE SHEET L-142 THRU L-145



6 SLAB EDGE

NTS REFERENCE SHEET L-142 THRU L-145

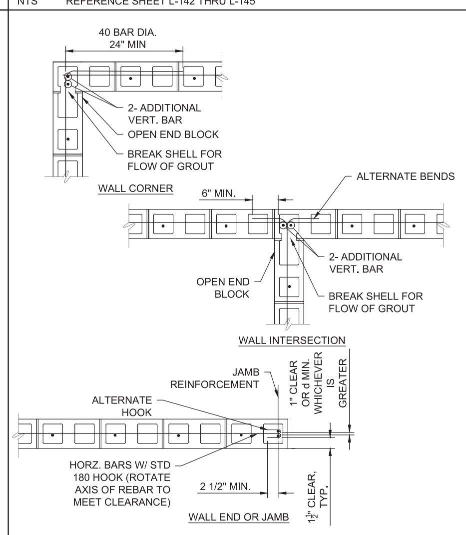


MININUM EMBEDMENT DEPTH OF HORIZONTAL ANCHOR	
DIAMETER	MIN EMBEDMENT=L_b
3/8"	4"
1/2"	4"
5/8"	4"
3/4"	5"
7/8"	6"

NOTES:
1. MIN. EMBEDMENT DEPTH L_b = 4 d_b BUT L_b MAY NOT BE LESS THAN 4".
2. MIN. BOLT SPACING SHALL BE 12 BOLT DIAMETERS WITH A MIN. EDGE DISTANCE OF 6 DIAMETER AND WITH A MINIMUM OF 6" TO END OF WALL.

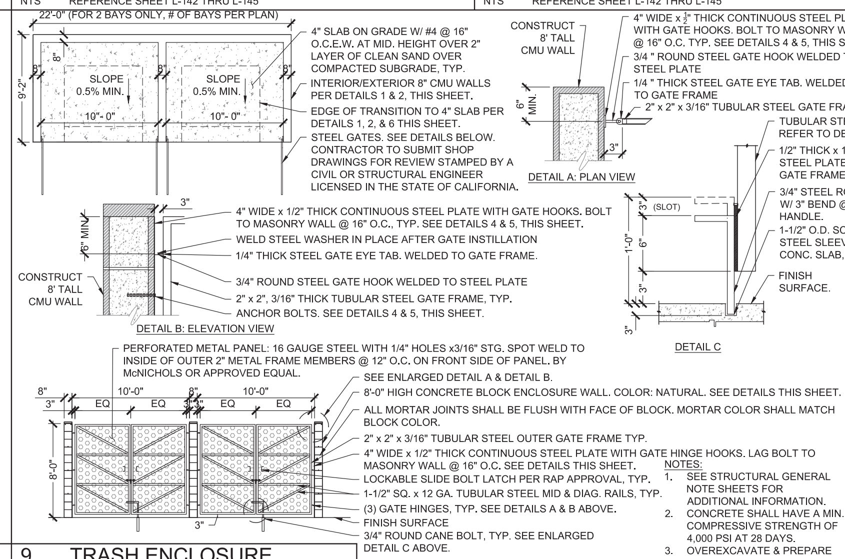
7 ANCHOR IN MASONRY

NTS REFERENCE SHEET L-142 THRU L-145



8 MASONRY WALL DETAILS

NTS REFERENCE SHEET L-142 THRU L-145



NOTES:
1. SEE STRUCTURAL GENERAL NOTE SHEETS FOR ADDITIONAL INFORMATION.
2. CONCRETE SHALL HAVE A MIN. COMPRESSIVE STRENGTH OF 4,000 PSI AT 28 DAYS.
3. OVEREXCAVATE & PREPARE SUBGRADE PER DETAIL 2, SHEET C-606.

9 TRASH ENCLOSURE

NTS REFERENCE SHEET L-142 THRU L-145

PLANS PREPARED BY:
TETRA TECH, INC.
707 WILSHIRE BLVD. 23RD FLR.
LOS ANGELES, CA 90017
PHONE: (213) 239-8866

CITY OF LOS ANGELES DEPARTMENT OF PUBLIC WORKS BUREAU OF ENGINEERING

VERT. CONTROL: BM 12-04070, 1929 (NGVD29) • 1985 ADJUSTMENT
HORIZ. CONTROL: GPS; PID AE 1704, EPOCH 1991.35

SHEET TITLE: CIVIL DETAILS SHEET 11
PROJECT: SIXTH STREET PARK, ARTS AND RIVER CONNECTIVITY IMPROVEMENTS (PARC)
ADDRESS: SIXTH STREET OVER THE LOS ANGELES RIVER

GARY LEE MOORE, P.E., ENV SP — CITY ENGINEER
DESIGN GROUP | DATE:
ENGINEER: JUSTIN SMITH — LIC. NO. C-85736 — 07/11/22
DESIGNED BY: JUSTIN SMITH
DRAWN BY: DAVID LOPEZ
CHECKED BY: NATE SCHREINER
APPROVED BY: JASON L. FUSSEL

THIS PLAN WAS ELECTRONICALLY SIGNED AND STAMPED.
REGISTERED PROFESSIONAL ENGINEER — JUSTIN T. SMITH — No. 85736 — EXP. 9-30-22 — CIVIL — STATE OF CALIFORNIA

NO. | REVISIONS: | DATE | BY:

INDEX NO.

BUILDING NO.

ENGINEERING — CITY OF LOS ANGELES

WORK ORDER NO. E700235D
FILE NO. --
DRAWING NO. C-610
SHEET 75 OF 295 SHEETS

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REVISION DATES (DESIGN STAGE ONLY)

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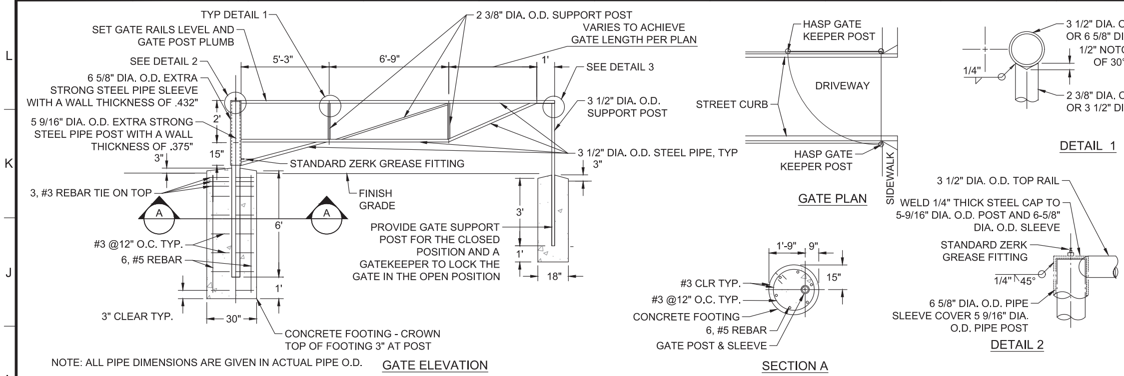
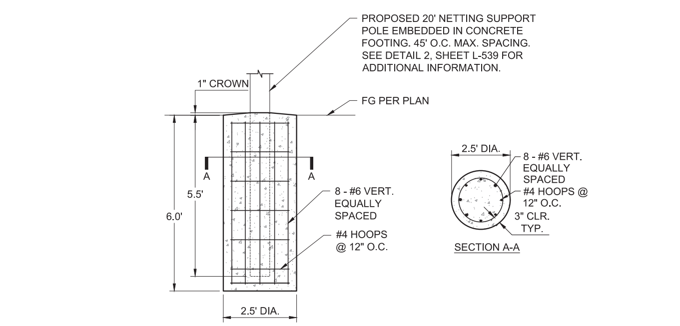


GATE SPECIFICATIONS:

1. FABRICATION AND PAINTING: GATE SHALL BE SHOP-FABRICATED AND PAINTED. FABRICATION AND PAINTING SHALL BE DONE UNDER BUREAU OF CONTRACT ADMINISTRATION INSPECTION.
2. ALL PIPE FOR GATE CONSTRUCTION SHALL BE NON-GALVANIZED STEEL.
3. PIPE FOR GATE CONSTRUCTION SHALL BE AS FOLLOWS:
   A. TOP AND BOTTOM RAILS, DIAGONAL AND VERTICAL BRACING AND SUPPORT POSTS SHALL BE SCH. 40 STANDARD STEEL.
   B. 5-9/16" DIAM. O.D. PIPE POST SHALL BE HIGH STRENGTH STEEL PIPE; WALL THICKNESS SHALL BE 0.375".
   C. 6 5/8" DIA. O.D. PIPE POST SLEEVE SHALL BE HIGH STRENGTH STEEL PIPE; WALL THICKNESS SHALL BE 0.432".
4. ALL WELDS SHALL BE GROUND SMOOTH. ALL WELDS SHALL BE PER A.N.S.I./A.W.S. D1.1.81.
5. PROVIDE AND INSTALL AN ADDITIONAL SUPPORT POST TO SECURE THE GATE WHEN FULLY OPEN. THE GATE KEEPER SUPPORT POST SHALL HAVE A HASP AS INDICATED IN THE DETAIL AT LEFT.
6. ADJUST THE HEIGHT OF THE GATE AND SUPPORT POSTS TO ACCOMMODATE THE EXISTING GRADES.
7. COLOR AND FINISH:
   A. ALL EXTERIOR SURFACES SHALL BE CLEANED WITH "OAKITE" OR EQUAL PRIOR TO PRIMING
   B. ALL EXTERIOR COMPONENTS SHALL BE PRIMED WITH ONE COAT OF RUST-INHIBITING ZINC PRIMER (NO PRIMER OR PAINT ON 5-9/16" DIA. POST).
   C. ALL EXTERIOR COMPONENTS SHALL BE PAINTED WITH TWO COATS OF ACRYLIC ENAMEL; COLOR SHALL BE 'OSHA' NO. 2166 (WHITE)
8. PRIOR TO INSTALLATION OF GATE, COMPLETELY COAT THE ENTIRE ABOVE GRADE SURFACE OF THE 5-9/16" DIA. O.D. GATE POST WITH GREASE. AFTER THE GATE IS INSTALLED FILL THE SPACE BETWEEN THE POST SLEEVE AND POST WITH ADDITIONAL GREASE USING BOTH GREASE FITTINGS.

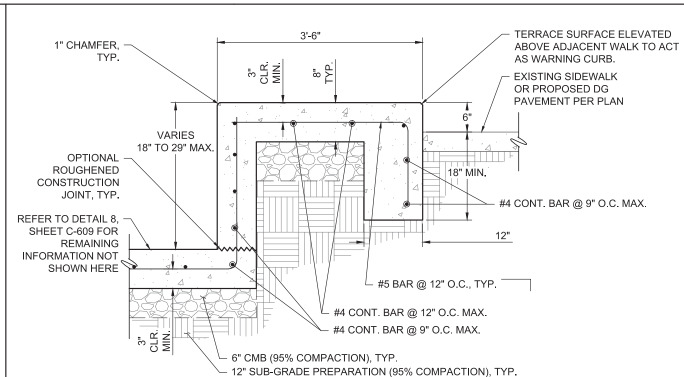
1 SINGLE LEAF RINO SWING GATE

NTS — REFERENCE SHEET C-500 THRU C-503



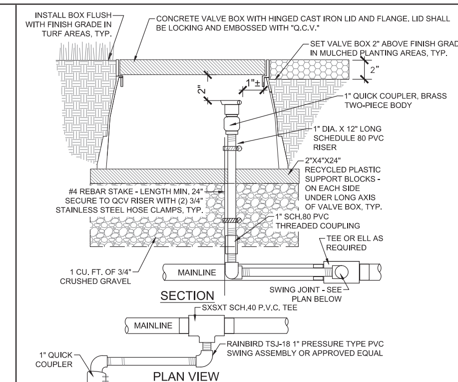
2 SOCCER NETTING POST FOOTING

NTS — REFERENCE SHEET L-141 THRU L-145



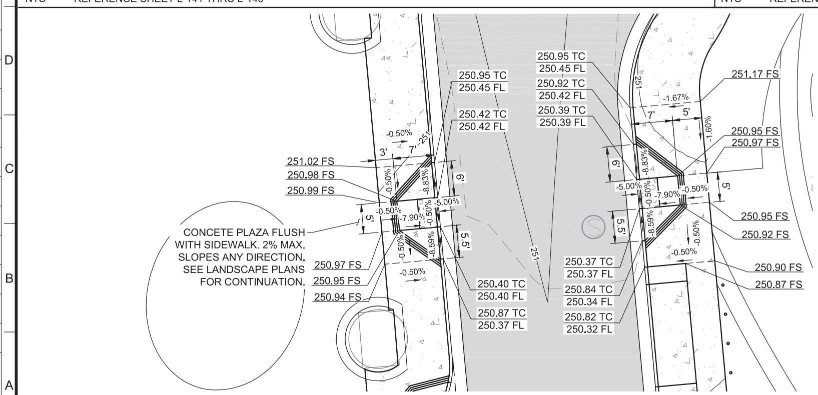
3 TOP OF CONCRETE TERRACING

NTS — REFERENCE SHEET L-132



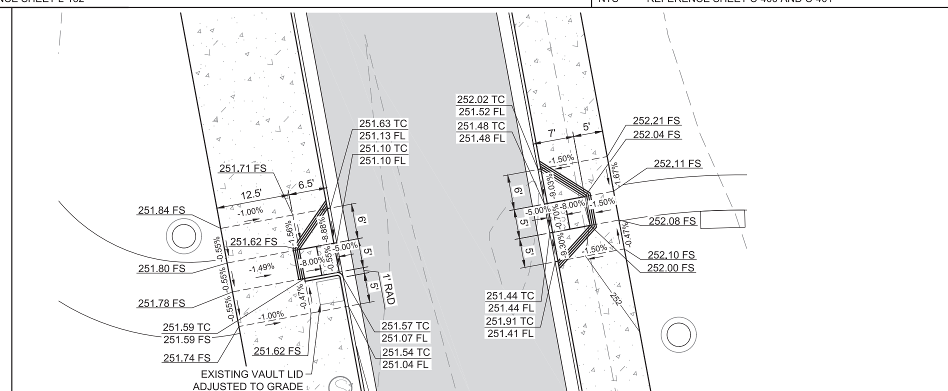
4 POTABLE QUICK COUPLER VALVE

NTS — REFERENCE SHEET C-400 AND C-401



5 SANTA FE AVENUE CROSSING ENLARGED CURB RAMPS

1"=10' — REFERENCE SHEET C-500



6 MISSION ROAD CROSSING ENLARGED CURB RAMPS

1"=10' — REFERENCE SHEET C-501

REVISION DATES (DESIGN STAGE ONLY)

Sheet Version 3.0

PLANS PREPARED BY: TETRA TECH, INC.
707 WILSHIRE BLVD. 23RD FLR.
LOS ANGELES, CA 90017
PHONE: (213) 239-8866

CITY OF LOS ANGELES — DEPARTMENT OF PUBLIC WORKS — BUREAU OF ENGINEERING

VERT. CONTROL: BM 12-04070, 1929 (NGVD29) - 1985 ADJUSTMENT
HORIZ. CONTROL: GPS; PID AE 1704, EPOCH 1991.35

SHEET TITLE: CIVIL DETAILS SHEET 12
PROJECT: SIXTH STREET PARK, ARTS AND RIVER CONNECTIVITY IMPROVEMENTS (PARC)
ADDRESS: SIXTH STREET OVER THE LOS ANGELES RIVER

GARY LEE MOORE, P.E., ENV SP — CITY ENGINEER
DESIGN GROUP
ENGINEER: JUSTIN SMITH — LIC. NO. C-85736 — DATE: 07/11/22
DESIGNED BY: JUSTIN SMITH
DRAWN BY: DAVID LOPEZ
CHECKED BY: NATE SCHREINER
APPROVED BY: JASON L. FUSSEL

THIS PLAN WAS ELECTRONICALLY SIGNED AND STAMPED.
REGISTERED PROFESSIONAL ENGINEER — JUSTIN T. SMITH — No. 85736 — EXP. 9-30-22 — CIVIL — STATE OF CALIFORNIA

NO. | REVISIONS | DATE | BY:

INDEX NO.

BUILDING NO.

ENGINEERING — CITY OF LOS ANGELES

WORK ORDER NO. E700235D
FILE NO. --
DRAWING NO. C-611
SHEET 76 OF 295 SHEETS

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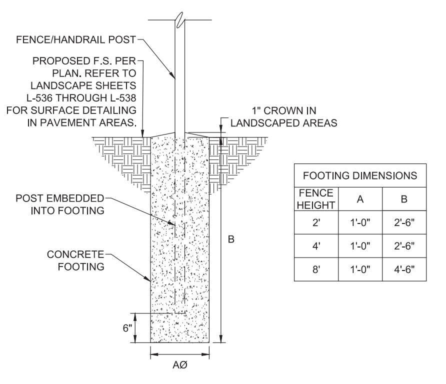
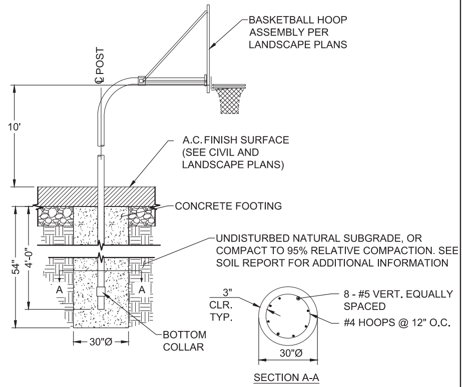


FOOTING DIMENSIONS		
FENCE HEIGHT	A	B
2'	1'-0"	2'-6"
4'	1'-0"	2'-6"
8'	1'-0"	4'-6"

1 FENCE/HANDRAIL POST EMBEDMENT

NTS REFERENCE SHEET: L-141 THRU L-145, L-536 THRU L-538, & A1-07



2 BASKETBALL HOOP POST FOOTING

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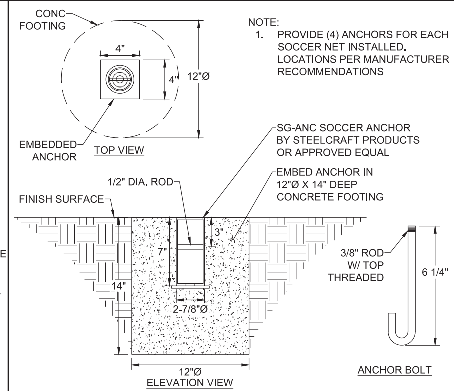
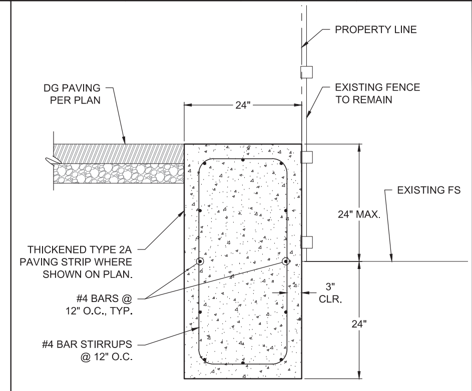


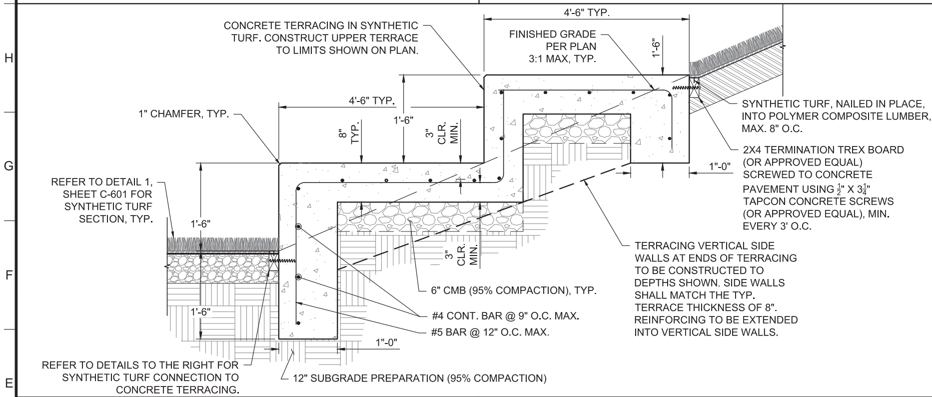
3 SOCCER NET POST FOOTING

NTS REFERENCE SHEET: L-141 THRU L-145



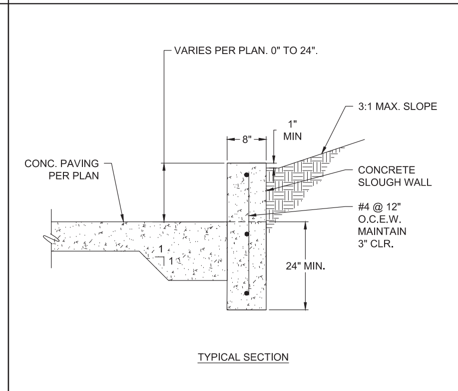
4 THICKENED PERIMETER CONC PAVING

NTS REFERENCE SHEET L-131 THRU L-135



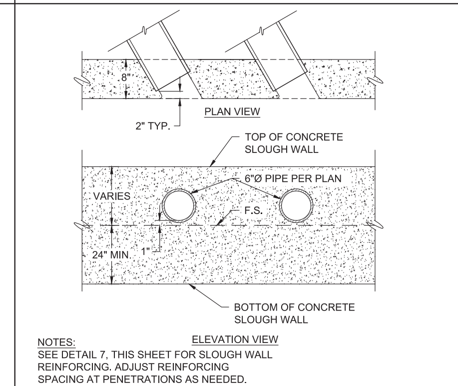
5 SOCCER FIELD CONCRETE TERRACE

NTS REFERENCE SHEET: L-141 THRU L-145



7 CONCRETE SLOUGH WALL

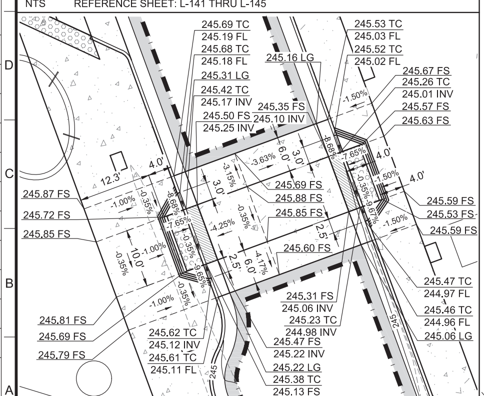
NTS REFERENCE SHEET: L-132



NOTES:
SEE DETAIL 7, THIS SHEET FOR SLOUGH WALL REINFORCING. ADJUST REINFORCING SPACING AT PENETRATIONS AS NEEDED.

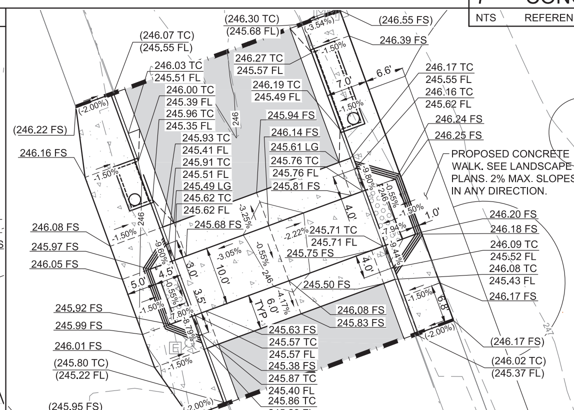
8 CONCRETE SLOUGH WALL PENETRATION

NTS REFERENCE SHEET: L-132 & C-404



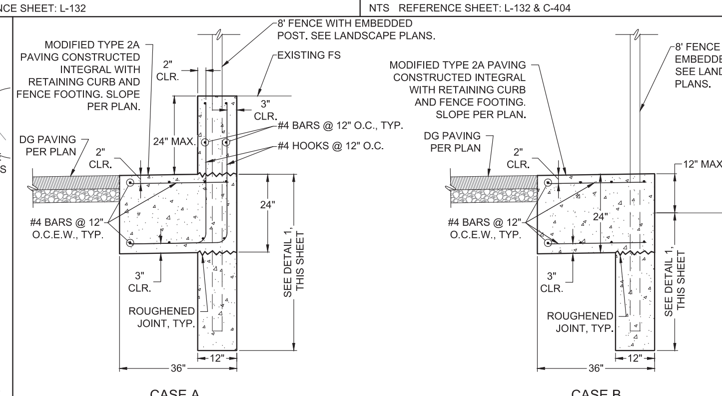
9 ANDERSON STREET CROSSING RAMPS

NTS REFERENCE SHEET: C-502



10 CLARENCE STREET CROSSING RAMPS

NTS REFERENCE SHEET: C-503



11 RETAINING CURB W/ FENCE

NTS REFERENCE SHEET: L-141 THRU L-145

PLANS PREPARED BY:
TETRA TECH, INC.
707 WILSHIRE BLVD, 23RD FLR.
LOS ANGELES, CA 90017
PHONE: (213) 239-8866

CITY OF LOS ANGELES — DEPARTMENT OF PUBLIC WORKS — BUREAU OF ENGINEERING

VERT. CONTROL: BM 12-04070, 1929 (NGVD29) + 1985 ADJUSTMENT
HORIZ. CONTROL: GPS: PID AE 1704, EPOCH 1991.35

SHEET TITLE: CIVIL DETAILS SHEET 13
PROJECT: SIXTH STREET PARK, ARTS AND RIVER CONNECTIVITY IMPROVEMENTS (PARC)
ADDRESS: SIXTH STREET OVER THE LOS ANGELES RIVER

GARY LEE MOORE, P.E., ENV SP — CITY ENGINEER
DESIGN GROUP — DATE:
ENGINEER: JUSTIN SMITH — LIC. NO.: C-85736 — 07/11/22
DESIGNED BY: JUSTIN SMITH
DRAWN BY: DAVID LOPEZ
CHECKED BY: NATE SCHREINER
APPROVED BY: JASON L. FUSSEL

THIS PLAN WAS ELECTRONICALLY SIGNED AND STAMPED.
REGISTERED PROFESSIONAL ENGINEER — JUSTIN T. SMITH — No. 85736 — EXP. 9-30-22 — CIVIL — STATE OF CALIFORNIA

NO. | REVISIONS | DATE | BY
INDEX NO.
BUILDING NO.
ENGINEERING — CITY OF LOS ANGELES

WORK ORDER NO. E700235D
FILE NO. --
DRAWING NO. C-612
SHEET 77 OF 295 SHEETS

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REVISION DATES (DESIGN STAGE ONLY)

Sheet Version 3.0

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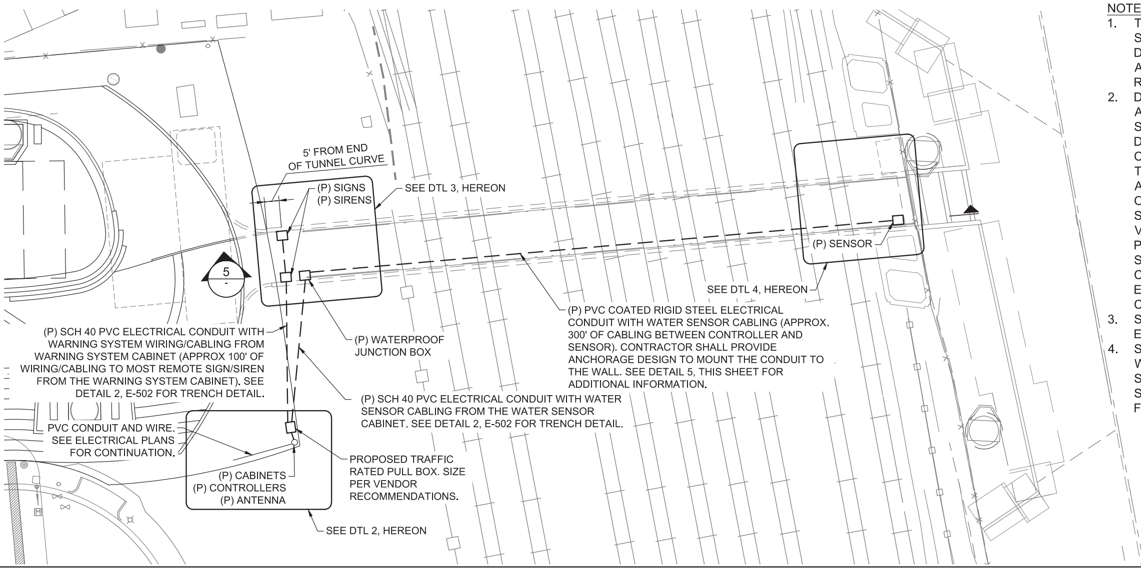
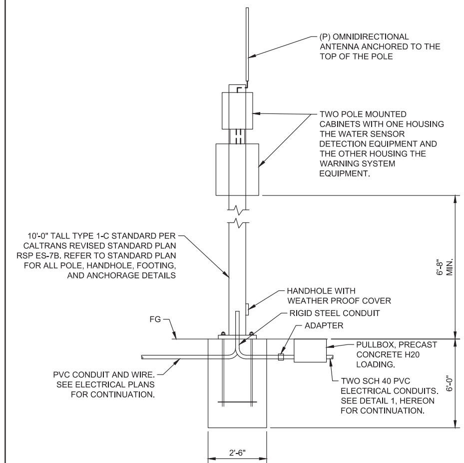
NOTES:
1. THE TAPCO HIGH WATER WARNING SYSTEM WAS USED AS THE BASIS OF DESIGN. CONTRACTOR MAY SUBMIT AN ALTERNATIVE EQUAL SYSTEM FOR REVIEW AND APPROVAL.
2. DETAILS SHOWN ON THIS SHEET ARE A CONCEPT LEVEL DESIGN. THIS SYSTEM IS TO BE A DELEGATED DESIGN BY THE CONTRACTOR. CONTRACTOR IS RESPONSIBLE FOR THE FINAL DESIGN, INSTALLATION, AND COMMISSIONING OF THE OVERALL SYSTEM. CONTRACTOR SHALL BE RESPONSIBLE FOR VERIFYING THE EQUIPMENT SIZING, PULL BOX LOCATIONS, PULLBOX SIZES, JUNCTION LOCATIONS, CONDUIT SIZING, CONDUIT COUNTS, EQUIPMENT LAYOUTS, AND CABLE/WIRING ROUTING.
3. SYSTEM MUST BE EQUIPPED WITH AN EMERGENCY BACKUP BATTERY.
4. SYSTEM MUST BE CAPABLE OF WIRELESSLY NOTIFYING UP TO FOUR SEPARATE AGENCIES WHEN THE SYSTEM HAS BEEN ACTIVATED BY A FLOOD CONDITION.



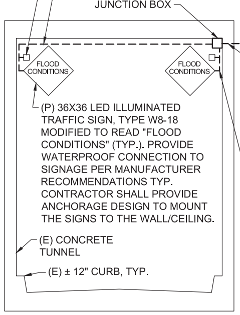
1 TUNNEL FLOOD WARNING SYSTEM SITE PLAN

NTS REFERENCE SHEET: C-613



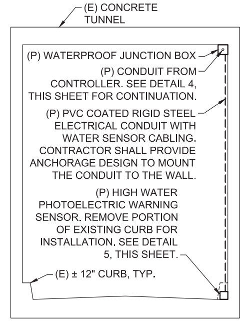
2 POLE-MOUNTED FLOOD WARNING SYSTEM CABINETS

NTS REFERENCE SHEET: C-613



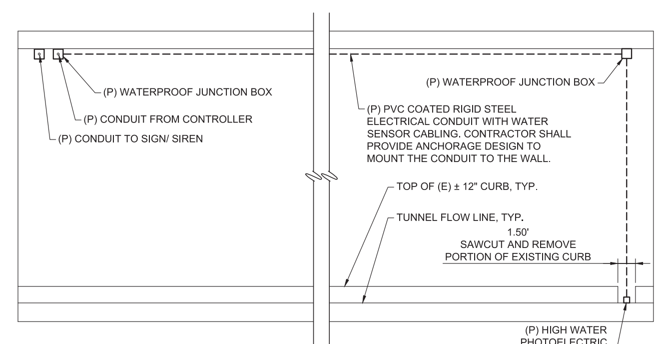
3 WALL MOUNTED SIGNAGE AND SIRENS

NTS REFERENCE SHEET: C-613



4 WALL MOUNTED WATER SENSOR

NTS REFERENCE SHEET: C-613



5 TUNNEL SECTION VIEW

NTS REFERENCE SHEET: C-613

PLANS PREPARED BY:
TETRA TECH, INC.
707 WILSHIRE BLVD, 23RD FLR.
LOS ANGELES, CA 90017
PHONE: (213) 239-8866

CITY OF LOS ANGELES — DEPARTMENT OF PUBLIC WORKS — BUREAU OF ENGINEERING

VERT. CONTROL: BM 12-04070, 1929 (NGVD29) • 1985 ADJUSTMENT
HORIZ. CONTROL: GPS; PID AE 1704, EPOCH 1991.35

SHEET TITLE: CIVIL DETAILS SHEET 14
PROJECT: SIXTH STREET PARK, ARTS AND RIVER CONNECTIVITY IMPROVEMENTS (PARC)
ADDRESS: SIXTH STREET OVER THE LOS ANGELES RIVER

GARY LEE MOORE, P.E., ENV SP — CITY ENGINEER
DESIGN GROUP
ENGINEER: JUSTIN SMITH — LIC. NO. C-85736 — DATE: 07/11/22
DESIGNED BY: JUSTIN SMITH
DRAWN BY: TYLER PARRA
CHECKED BY: NATE SCHREINER
APPROVED BY: JASON L. FUSSEL

REGISTERED PROFESSIONAL ENGINEER — JUSTIN T. SMITH — No. 85736 — EXP: 9-30-22 — CIVIL — STATE OF CALIFORNIA
THIS PLAN WAS ELECTRONICALLY SIGNED AND STAMPED.

NO. REVISIONS: DATE: BY:
INDEX NO.
BUILDING NO.
ENGINEERING — CITY OF LOS ANGELES

WORK ORDER NO. E700235D
FILE NO. --
DRAWING NO. C-613
SHEET 78 OF 295 SHEETS

REVISION DATES (DESIGN STAGE ONLY)

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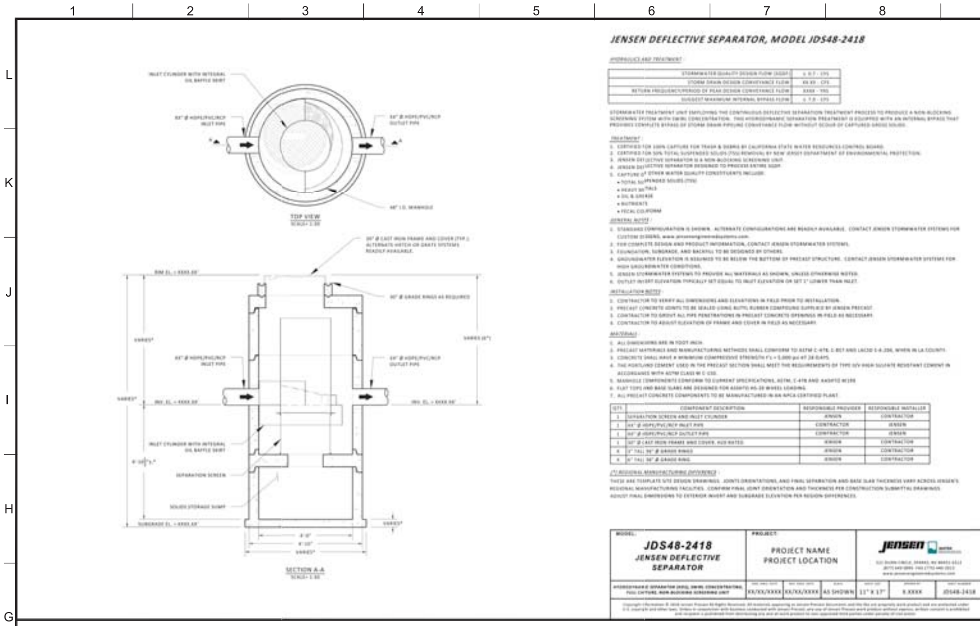
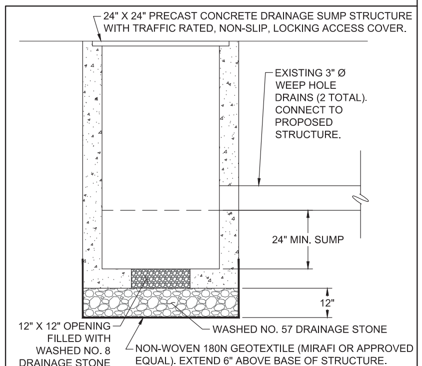
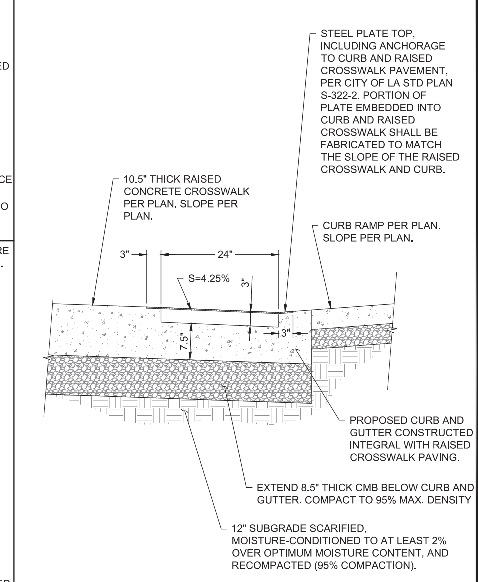


1 HYDRODYNAMIC SEPARATOR TYPE 2
NTS REFERENCE SHEET C-403 THRU C-411

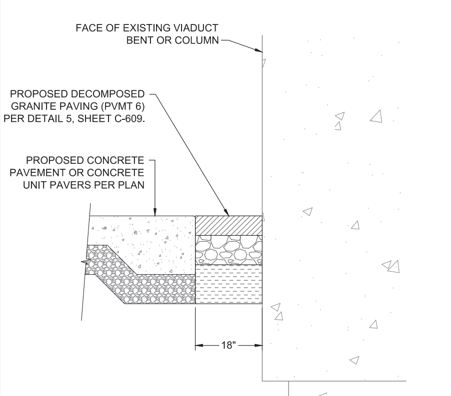
NOTE:
1. HYDRODYNAMIC SEPARATOR SHALL BE JENSEN PRECAST MODEL JDS48-2418 OR APPROVED EQUAL.
2. REFER TO THE PLANS FOR PIPE SIZES, PIPE TYPES, INVERT ELEVATIONS, RIM ELEVATIONS, ETC. FINAL PRECAST SECTION DIMENSIONS PER MANUFACTURER. RIM ELEVATION TO SUMP ELEVATION SHALL NOT EXCEED 25 FEET.
3. SUMP OPENING SHALL BE 18" IN DIAMETER MINIMUM.
4. STANDARD DETAIL SHALL BE MODIFIED SO THAT THE 30" Ø FRAME AND COVER IS CENTERED IN THE TOP SLAB.
5. REFER TO DETAIL 2, SHEET C-606 FOR OVEREXCAVATION AND SUBGRADE PREPARATION REQUIREMENTS.
6. PRIOR TO INSTALLING THE SEPARATION SLAB OVER THE SOLID STORAGE SUMP, THE CONTRACTOR SHALL APPLY CEMENT MORTAR ($\frac{1}{2}$" MINIMUM THICKNESS) TO THE BASE OF THE SUMP STORAGE TO SLOPE THE SURFACE 2% MINIMUM TO THE CENTER OF THE STRUCTURE.
7. CONTRACTOR SHALL APPLY CEMENT MORTAR ($\frac{1}{2}$" MINIMUM THICKNESS) TO THE TOP OF THE SEPARATION SLAB OVER THE SOLID STORAGE SUMP TO SLOPE THE SURFACE 2% MINIMUM TO OUTLET SIDE OF THE STRUCTURE.



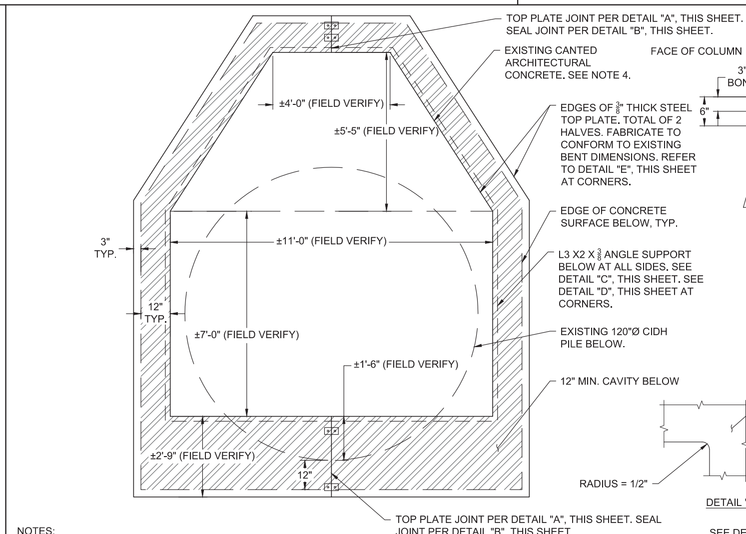
2 WEEP HOLE SUMP STRUCTURE
NTS REFERENCE SHEET C-403A



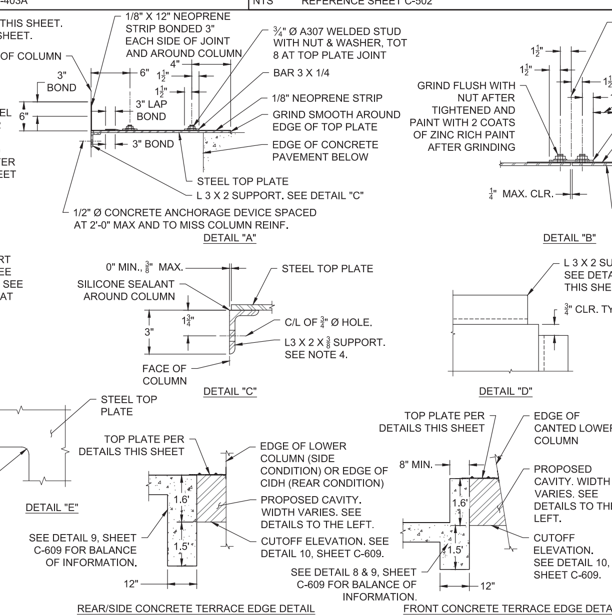
3 RAISED CROSSWALK CULVERT
NTS REFERENCE SHEET C-502



4 VIADUCT BENTS/COLUMNS IN PVMT
NTS REFERENCE SHEET L-131 THRU L-135



NOTES:
1. ALL STEEL PLATES AND BARS SHALL BE ASTM A36.
2. ALL STEEL COMPONENTS SHALL BE GALVANIZED
3. BONDING OF NEOPRENE STRIP SHALL BE ACHIEVED USING A NEOPRENE ADHESIVE THAT SHALL COMPLY WITH FEDERAL SPEC MMM-A-121.
4. AT CANTED ARCHITECTURAL CONCRETE WALLS, REPLACE L 3 X 2 X 3/8 SUPPORT ANGLE WITH A FABRICATED ANGLE TO MATCH THE SLOPE OF THE ARCHITECTURAL CONCRETE WALL



5 VIADUCT BENTS 4S ISOLATION COVER PLATE
NTS REFERENCE SHEET L-131 THRU L-135

PLANS PREPARED BY: TETRA TECH, INC.
707 WILSHIRE BLVD. 23RD FLR.
LOS ANGELES, CA 90017
PHONE: (213) 239-8866

CITY OF LOS ANGELES · DEPARTMENT OF PUBLIC WORKS · BUREAU OF ENGINEERING

GARY LEE MOORE, P.E., ENV SP — CITY ENGINEER
DESIGN GROUP
ENGINEER: JUSTIN SMITH LIC. NO. C-85736 DATE: 07/11/22
DESIGNED BY: JUSTIN SMITH
DRAWN BY: DAVID LOPEZ
CHECKED BY: NATE SCHREINER
APPROVED BY: JASON L. FUSSEL

REGISTERED PROFESSIONAL ENGINEER · JUSTIN T. SMITH · No. 85736 · EXP. 9-30-22 · CIVIL · STATE OF CALIFORNIA
THIS PLAN WAS ELECTRONICALLY SIGNED AND STAMPED

VERT. CONTROL: BM 12-04070, 1929 (NGVD29) • 1985 ADJUSTMENT
HORIZ. CONTROL: GPS; PID AE 1704, EPOCH 1991.35
SHEET TITLE: CIVIL DETAILS SHEET 15
PROJECT: SIXTH STREET PARK, ARTS AND RIVER CONNECTIVITY IMPROVEMENTS (PARC)
ADDRESS: SIXTH STREET OVER THE LOS ANGELES RIVER

NO. REVISIONS: DATE: BY:
BUILDING NO.
INDEX NO.
WORK ORDER NO. E700235D
FILE NO. --
DRAWING NO. C-614
SHEET 79 OF 295 SHEETS

REVISION DATES (DESIGN STAGE ONLY)

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CONTRACT DOCUMENTS

1. THE WORK SHALL CONFORM TO THE CONTRACT DOCUMENTS.
2. THE CONTRACT DOCUMENTS ARE COMPLIMENTARY. READ THE DRAWINGS IN CONJUNCTION WITH THE SPECIFICATIONS AND EXECUTE THE WORK AS THOUGH SHOWN ON ALL.
3. THE EXTERNAL WORKS IS DEPENDENT ON SEVERAL DISCIPLINES. READ THE DRAWINGS BY CROSS-REFERENCING BETWEEN DISCIPLINES.
4. REPORT ANY DISCREPANCIES IMMEDIATELY TO THE OWNER'S REPRESENTATIVE FOR DIRECTION BEFORE PROCEEDING WITH THE WORK.

SITE ACCESS & PROTECTION

1. STAGING AREA IS WITHIN THE CONTRACT LIMIT LINE. STAGING AREA DOES NOT INCLUDE ACCESS ROUTES TO THE SITE. THE CONSTRUCTION (AND REMOVAL) OF TEMPORARY STAGING AREAS AND/OR ACCESS ROUTES SHALL BE THE CONTRACTOR'S SOLE RESPONSIBILITY AND EXPENSE.
2. ALL CONSTRUCTION RELATED VEHICLES REQUIRED FOR THE WORK EXITING AND/OR ENTERING THE SITE SHALL NOT DEPOSIT DIRT, MUD, OR OTHER DELETERIOUS MATERIALS THAT WOULD PRESENT A NUISANCE OR HAZARD TO THE PUBLIC TRAVELING ON RIGHT OF WAYS. ALL PREVENTION AND CLEANING SHALL BE AT THE CONTRACTOR'S SOLE RESPONSIBILITY AND EXPENSE.
3. NO WORK, EQUIPMENT OR STAGING IS PERMITTED IN THE RIGHT OF WAY AT ANY TIME UNLESS THE CONTRACTOR HAS APPROVAL FROM THE GOVERNMENT AUTHORITIES HAVING JURISDICTION. ALL COORDINATION PERMITS AND TRAFFIC CONTROL REQUIRED SHALL BE AT THE CONTRACTOR'S SOLE RESPONSIBILITY AND EXPENSE.
4. THE DOCUMENTS DO NOT SPECIFY SAFETY MATERIALS, EQUIPMENT, METHODS OR SEQUENCING TO PROTECT PERSONS AND PROPERTY. IT SHALL BE THE CONTRACTOR'S SOLE RESPONSIBILITY AND EXPENSE TO DIRECT AND IMPLEMENT SAFETY OPERATIONS TO PROTECT PERSONS AND PROPERTY.

QUALITY ASSURANCE

1. EXECUTE THE WORK AND SCHEDULE INSPECTIONS IN ACCORDANCE WITH ALL APPLICABLE FEDERAL, STATE AND LOCAL STANDARDS, LAWS AND REGULATIONS.
2. ENSURE SUBCONTRACTORS, MANUFACTURERS AND SUPPLIERS HAVE THE LATEST CONTRACT DOCUMENTS PRIOR TO THE SUBMITTAL OF THEIR SHOP DRAWINGS AND/OR DELEGATED DESIGN DRAWINGS.
3. REFER TO THE SPECIFICATION FOR REQUIRED SUBMITTALS, INSPECTIONS AND NOTICE PERIODS.

EXISTING CONDITIONS SURVEY

1. THE DOCUMENTS ARE BASED ON THE FOLLOWING TOPOGRAPHIC AND UTILITY SURVEY;
   - BUREAU OF ENGINEERING SURVEY DATED 09-12-2017, UNDERTAKEN BY IN-FIELD METHODS SUBJECT TO PRECISION AND ACCURACY TOLERANCES.
2. SURVEYED UNDERGROUND UTILITIES ARE PROVIDED FOR INFORMATION ONLY AS THEY ARE INFERRED BY SURFACE MARKINGS AND FEATURES AND AS SUCH MAY NOT BE ACCURATE OR COMPLETE.

GEOTECHNICAL REPORT

1. THE DOCUMENTS ARE BASED ON THE FOLLOWING GEOTECHNICAL REPORT,
   - HUSHMAND ASSOCIATES, INC. REPORT DATED 01-2018, UNDERTAKEN BY IN-FIELD METHODS SUBJECT TO PRECISION AND ACCURACY TOLERANCES.
2. THE GEOTECHNICAL REPORT IS MADE AVAILABLE FOR INFORMATION ONLY AS SOME RECOMMENDATIONS IN THE REPORT MAY NOT BE RELEVANT OR USED IN THE DOCUMENTS.

UTILITIES

1. THE LOCATIONS AND SIZES OF EXISTING UTILITIES IF SHOWN ARE APPROXIMATE ONLY. IDENTIFY, LOCATE AND PROTECT ALL UNDERGROUND AND OVERHEAD UTILITIES TO REMAIN.
2. COORDINATE WITH THE LOCAL UTILITY COMPANIES AND/OR AGENCIES. NOTIFY THE CALL CENTER NO LESS THAN 72 HOURS PRIOR TO DIGGING TO LOCATE UNDERGROUND UTILITIES OR AS REQUIRED BY LOCAL REGULATIONS.
3. BE FULLY RESPONSIBLE FOR THE COST OF ANY AND ALL DAMAGES WHICH OCCUR AS A RESULT OF A FAILURE TO ACCURATELY LOCATE AND/OR RETAIN ANY AND/OR ALL UTILITIES TO REMAIN.

LAYOUT

1. THE HORIZONTAL CONTROL FOR THE PROJECT IS: STATE PLANE COORDINATE SYSTEM NORTH AMERICAN DATUM (NAD83) UNLESS OTHERWISE NOTED.
2. THE VERTICAL CONTROL FOR THE PROJECT IS: NORTH AMERICAN VERTICAL DATUM (NAVD88) OR NATIONAL GEODETIC DATUM (NGDV29) UNLESS OTHERWISE NOTED.
3. VERIFY THE LOCATION OF EXISTING FEATURES TO REMAIN THAT CONNECT TO NEW WORK, ALL DIMENSIONAL CLEARANCES, SETBACKS AND OFFSETS AND VERTICAL DATUM. REPORT ANY DISCREPANCIES IMMEDIATELY TO THE OWNER'S REPRESENTATIVE FOR DIRECTION BEFORE PROCEEDING WITH THAT PORTION OF THE WORK.
4. VERIFY ALL PREVIOUS UNDERLYING TRADEWORK CONFORMS TO THE DOCUMENTS PRIOR TO PROCEEDING WITH OVERLYING TRADEWORK. REPORT ANY DISCREPANCIES IMMEDIATELY TO THE OWNER'S REPRESENTATIVE FOR DIRECTION BEFORE PROCEEDING WITH THAT PORTION OF THE WORK.
5. GENERAL CONTRACTOR SHALL RETAIN SURVEY CONTROL FOR LAYOUT OF THE WORKS AND AS-BUILT SURVEYS.
6. COORDINATE AND COLLATE SUBCONTRACTOR'S SURVEYS.IT IS THE CONTRACTOR'S RESPONSIBILITY TO FIELD VERIFY EXISTING SITE CONDITIONS AND EVOLVING SITE CONDITIONS PRIOR TO THE START OF ANY SITE WORK. ANY DISCREPANCY AND/OR UNFORESEEN CONDITIONS FOUND SHALL BE BROUGHT TO THE IMMEDIATE ATTENTION OF THE OWNER'S REPRESENTATIVE PRIOR TO STARTING THE SITE WORK. DO NOT BEGIN WORK IN ANY SUCH AFFECTED AREA UNTIL THE DISCREPANCY HAS BEEN RESOLVED.
7. ERECT AND INSTALL ALL WORK LEVEL, PLUMB, SQUARE, TRUE, STRAIGHT AND IN PROPER ALIGNMENT.
8. DO NOT SCALE FROM DRAWINGS. USE DIMENSIONS SHOWN.
9. DIMENSIONS NOTED [CLR] OR CLEAR MUST BE STRICTLY MAINTAINED ALLOWING FOR THICKNESS OF ALL FINISHES. FIELD VERIFY PRIOR TO CONSTRUCTION.
10. ALL ANGLES ARE 90 DEGREES UNLESS OTHERWISE NOTED.
11. ALL CURVES FOR PAVING, BANDS, PATHS, EDGING AND HEADER BOARDS SHALL BE SMOOTH AND CONTINUOUS WITHOUT ABRUPT CHANGES, OBVIOUS TANGENTS OR BENDS.
12. PITCH EVENLY BETWEEN SPOT GRADES AND CONTOUR LINES UNLESS GRADE BREAKS, RIDGELINES, SWALES ARE INDICATED OR OTHERWISE NOTED. ALL PAVED AREAS SHALL PITCH AT A MINIMUM OF 1% UNLESS OTHERWISE NOTED ON DRAWINGS. ANY DISCREPANCIES OR CONDITIONS NOT ALLOWING THIS TO OCCUR SHALL BE REPORTED TO THE OWNER'S REPRESENTATIVE FOR RESOLUTION PRIOR TO CONTINUING WORK.
13. PEDESTRIAN SIDEWALKS AND PAVING SHALL HAVE A CROSS PITCH LESS THAN 2% TO MEET ADA, UNLESS OTHERWISE NOTED.
14. REQUEST A FIRST IN PLACE FIELD REVIEW BY THE LANDSCAPE ARCHITECT OF THE LAYOUT OF ELEMENTS AS SHOWN. STAKE ALL LOCATIONS. OBTAIN LANDSCAPE ARCHITECT'S APPROVAL OF LAYOUT BEFORE INSTALLING THE FOLLOWING;
   - ALL SITE LIGHTING FIXTURES, JUNCTION BOXES, TRANSFORMERS
   - ALL SITE UTILITY FIXTURES, INCLUDING BUT NOT LIMITED TO BOXES, VAULTS, PULL BOXES, MAN HOLES, AIR RELEASE VALVES, VENTS, BFP, AND OTHER CIVIL, MECHANICAL, ELECTRICAL, PLUMBING, TELECOM, HEATING/COOLING, AND IRRIGATION STRUCTURES
   - ALL FORMWORK OR A TYPICAL FORMWORK PORTION REPRESENTING SIMILAR WORK. OBTAIN LANDSCAPE ARCHITECTS APPROVAL OF FORMWORK FOR FLATWORK AND WALL WORK PRIOR TO CONCRETE POURING
   - ALL TREE LOCATIONS. STAKE ALL TREE LOCATIONS. OBTAIN APPROVAL OF LANDSCAPE ARCHITECT BEFORE PLANTING TREES
   - ALL CURVED EDGING AND CUTTING
   - EXPANSION JOINTS IN UNIT PAVING
15. COORDINATE PLANT LAYOUT WITH IRRIGATION EQUIPMENT LAYOUT. PLANT LAYOUT TAKES PRECEDENCE OVER IRRIGATION EQUIPMENT LAYOUT.

WATERING

1. AREAS NOT SHOWN TO BE IRRIGATED PERMANENTLY BUT ARE PLANTED SHALL BE WATERED BY TEMPORARY MEANS UNTIL PLANTS ARE ESTABLISHED.
2. TEMPORARY WATERING MEANS, METHODS AND SCHEDULING SHALL BE THE CONTRACTORS' RESPONSIBILITY. REMOVE ALL TEMPORARY WATERING EQUIPMENT UPON PLANT ESTABLISHMENT.

WORK BY OTHERS

1. COOPERATE AND COORDINATE WITH OTHER CONTRACTORS WORKING CONCURRENTLY SO AS TO NOT VIOLATE EACH OTHER'S PERMITS AND TO AVOID DAMAGE TO EACH OTHER'S WORK. OTHER CONTRACTS THAT MAY BE ACTIVE DURING THIS WORK ARE:
   - BRIDGEWORKS
   - ROADWORKS INCLUDING CURB AND GUTTERS
   - PUBLIC ART INSTALLATION
2. EACH CONTRACTOR SHALL PROTECT AND MAINTAIN THEIR OWN WORK FOR THE DURATION OF THEIR CONTRACTS.

CODE COMPLIANCE

1. ALL WORK SHALL BE IN ACCORDANCE WITH APPLICABLE LAWS, CODES AND REQUIREMENTS OF REGULATORY AGENCIES HAVING JURISDICTION.
2. NOTIFY THE OWNER'S REPRESENTATIVE OF ANY DISCREPANCY BETWEEN THE WORK AND APPLICABLE CODES. DO NOT WORK IN ANY SUCH AFFECTED AREA UNTIL THE DISCREPANCY HAS BEEN RESOLVED.
3. VERIFY ALL CODES IN EFFECT AT THE TIME OF THE NOTICE TO PROCEED AND STAY CURRENT WITH ALL CODE CHANGES WHICH AFFECT THE WORK UNTIL SUBSTANTIAL COMPLETION.
4. IT IS THE SOLE RESPONSIBILITY OF THE CONTRACTOR TO OBTAIN AND PAY FOR ALL CONSTRUCTION RELATED PERMITS.

CODES IN EFFECT

1. THE CODES INCLUDING , BUT NOT LIMITED TO THE FOLLOWING, ARE APPLICABLE AND IN EFFECT:
   - CITY OF LOS ANGELES MUNICIPAL CODE, 2017
   - CITY OF LOS ANGELES GREEN BUILDING CODE, 2017
   - CALIFORNIA ENERGY CODE, 2016
   - INTERNATIONAL BUILDING CODE (IBC), 2015
   - NATIONAL ELECTRICAL CODE (NEC), 2014
   - INTERNATIONAL PLUMBING CODE (IPC), 2015
   - INTERNATIONAL MECHANICAL CODE (IMC), 2015
   - INTERNATIONAL ENERGY CONSERVATION CODE, 2009
   - INTERNATIONAL FIRE CODE (IFC), 2015
2. ANY REVISIONS TO THE APPROVED AND PERMITTED DRAWINGS OR DOCUMENTS SHALL BE SUBMITTED TO THE CITY BUILDING DEPARTMENT FOR REVIEW. NOTIFY THE OWNER'S REPRESENTATIVE OF THE PROCESSING TIME FOR EACH REVISION SUBMITTED FOR PLAN CHECK.

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1. THE USE OF REPRODUCTIONS OF THE CONTRACT DOCUMENTS OR ELECTRONIC FILES AS SHOP DRAWING DOCUMENTS BY THE CONTRACTOR IS AT THEIR OWN RISK. THE DESIGN CONSULTANTS ASSUME NO LIABILITY AS A RESULT OF THE USE OF THE CONTRACT DOCUMENTS FOR SHOP DRAWINGS AND/OR DELEGATED DESIGN DRAWINGS.
2. THE ENTIRE CONTRACT DOCUMENT PACKAGE HEREIN IS THE ORIGINAL AND UNPUBLISHED PROPERTY OF THE CITY OF LOS ANGELES AND MAY NOT BE DUPLICATED, USED OR DISCLOSED WITHOUT THE PRIOR EXPLICIT WRITTEN CONSENT OF THE CITY OF LOS ANGELES.
3, THE USE OF DIGITAL DESIGN FILES SHALL REQUIRE THE CONTRACTOR TO AGREE TO LICENSE CONDITIONS BEFORE USE.

CONSTRUCTION LOADS, DAMAGES & REPAIRS

1. THE CONTRACTOR IS SOLELY RESPONSIBLE FOR SLOPE STABILITY AND DEWATERING DURING THE WORKS UNLESS UNKNOWN CONDITIONS ARE ENCOUNTERED.
2. THE CONTRACTOR IS SOLELY RESPONSIBLE FOR PROTECTING THE WORKS FROM CONSTRUCTION LOADS AND DAMAGES TO EXISTING STRUCTURES TO REMAIN, NEW STRUCTURES AND NEW PAVEMENTS DURING THE WORKS.
3. BE FULLY RESPONSIBLE FOR THE COST OF ANY AND ALL DAMAGES WHICH OCCUR AS A RESULT OF A FAILURE TO MITIGATE CONSTRUCTION LOADS AND/OR PROTECT THE WORKS FROM ANY CONSTRUCTION RELATED IMPACTS. REPAIRS SHALL BE TO A NEW OR BETTER CONDITION COMPARED TO THE EXISTING CONDITION BEFORE DAMAGE, AND AS APPROVED BY THE OWNER'S REPRESENTATIVE.
4. CONFIRM ON-STRUCTURE UNIFORM AND POINT LOAD LIMITS WITH ENGINEER PRIOR TO IMPORTING AND HANDLING LANDSCAPE MATERIALS OVER ROOFS, BASEMENTS, VAULTS, AND/OR TUNNELS.

CONSTRUCTION WASTE MANAGEMENT

1. REMOVE FROM THE SITE ANY EXCESS MATERIAL AND/OR DEBRIS. DISPOSAL OF MATERIALS IS THE RESPONSIBILITY OF THE CONTRACTOR. ALL EXCESS MATERIAL AND/OR DEBRIS NOT ABLE TO BE RECYCLED OR REUSED SHALL BE DISPOSED OF OFF THE PROJECT SITE IN A PERMITTED LANDFILL.

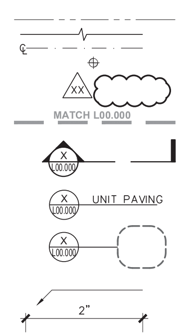
GREEN CODE

1. FOR PROJECTS THAT INCLUDE LANDSCAPE WORK, THE LANDSCAPE CERTIFICATION, FORM GRN 12, SHALL BE COMPLETED PRIOR TO FINAL INSPECTION APPROVAL
2. A CERTIFICATE OF COMPLETION SHALL BE FILLED OUT AND CERTIFIED BY EITHER THE SIGNER OF THE LANDSCAPE PLANS, THE SIGNER OF THE IRRIGATION PLANS, OR THE LICENSED LANDSCAPE CONTRACTOR FOR THE PROJECT.

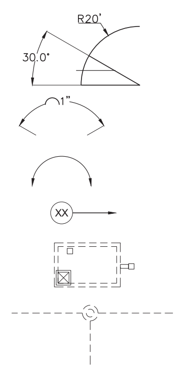
ABBREVIATIONS

AMP	AMPERE
APPROX	APPROXIMATE
AVG	AVERAGE
BC	BOTTOM OF CURB
BFP	BACKFLOW PREVENTER
BLDG	BUILDING
BM	BENCHMARK
BOT	BOTTOM
BR	BOTTOM OF RAMP
BS	BOTTOM OF STAIR
BW	BOTTOM OF WALL
CB	CATCH BASIN
CIP	CAST-IN-PLACE
CJ	CONTROL JOINT
CL	CENTER LINE
CLR	CLEAR
CMU	CONCRETE MASONRY UNIT
CO	CLEAN OUT
CONC	CONCRETE
CTR	CENTER
DAT	DATUM
DEG	DEGREE
DIA	DIAMETER
DIM	DIMENSION
DIST	DISTANCE
DIV	DIVISION
DWG	DRAWING
E	EAST
EA	EACH
EJ	EXPANSION JOINT
EL	ELEVATION
EQ	EQUAL
EQL SP	EQUALLY SPACED
EQUIV	EQUIVALENT
EXIST	EXISTING
F	FAHRENHEIT
FC	FOOTCANDLE
FFE	FINISH FLOOR ELEVATION
FF&E	FURNITURE, FIXTURE, AND EQUIPMENT
FIN GR	FINISH GRADE
FOC	FACE OF CURB
FOW	FACE OF WALL
FV	FIELD VERIFY
GALV	GALVANIZED
GB	GRADE BREAK
GDR	GUARD RAIL
H	HIGH
HB	HOSE BIBB
HDPE	HIGH DENSITY POLYETHYLENE
HH	HAND HOLE
HNDRL	HANDRAIL
HORIZ	HORIZONTAL
HT	HEIGHT
HV	HIGH VOLTAGE
HW	HIGH WATER
ID	INSIDE DIMENSION
IE	INVERT ELEVATION
IJ	ISOLATION JOINT
JB	JUNCTION BOX
kW	KILOWATT
LDPE	LOW DENSITY POLYETHYLENE
LED	LIGHT EMITTING DIODE
LOW	LIMIT OF WORK
LPT	LOW POINT
LTD	LIMITED
LV	LOW VOLTAGE
LW	LOW WATER
MAX	MAXIMUM
ME	MITERED OUTLET
MFR REC	MANUFACTURER'S RECOMMENDATION
MH	MANHOLE
MID	MIDDLE
MIN	MINIMUM
N	NORTH
NA	NOT APPLICABLE
N/C	NOT IN CONTRACT
NO	NUMBER
NOM	NOMINAL
NP	NORMAL POOL
NTS	NOT TO SCALE
OC	ON CENTER
OD	OUTSIDE DIAMETER
OH	OVERHANG
P.A.	PLANTING AREA
PB	PULL BOX
POB	POINT OF BEGINNING
POC	POINT OF CURVE
PCC	PRECAST CONCRETE
PERF	PERFORATED
PERP	PERPENDICULAR
pH	ACID/ALKALINE SCALE
PH	PHASE
POI	POINT OF INTERSECTION
PKG	PACKAGE
PL	PROPERTY LINE
PLMB	PLUMBING
PRCST	PRECAST
PREFAB	PREFABRICATE
PROV	PROVISIONAL
PVC	POLYVINYL CHLORIDE
PWR	POWER
QTR	QUARTER
QTY	QUANTITY
R	RADIUS
RCP	REINFORCED CONCRETE PIPE
RECIRC	RECIRCULATE
RECPT	RECEPTACLE
REINF	REINFORCE
REQD	REQUIRED
REV	REVISION
RLG	RAILING
ROW	RIGHT OF WAY
S	SOUTH
SALV	SALVAGE
SEG	SEGMENT
SHT	SHEET
SIM	SIMILAR
SPEC	SPECIFICATION
SQ	SQUARE
SSD	SUBSOIL DRAIN
SS	STAINLESS STEEL
STA	STATION
STD	STANDARD
SUCT	SUCTION
TAN	TANGENT
TB-xx	TEST BORING-XX (E.G., TB-01)
TD	TRENCH DRAIN
TEMP	TEMPORARY
THK	THICKNESS
THRU	THROUGH
THRUOUT	THROUGHOUT
TC	TOP OF CURB
TR	TOP OF RAMP
TS	TOP OF STAIRS
TW	TOP OF WALL
TOL	TOLERANCE
TOW	TOP OF WALL
TR	TOP OF RIM
TYP	TYPICAL
UGND	UNDERGROUND
UNIF	UNIFORM
UNO	UNLESS NOTED OTHERWISE
UP	UTILITY POLE
UV	ULTRAVIOLET
VAR	VARIES
VERT	VERTICAL
VRFY	VERIFY
W	WEST
W/	WITH
W/O	WITHOUT
WL	WATER LINE
WLD	WELDED
WT EL	WATER ELEVATION
XFMR	TRANSFORMER
YR	YEAR
@	AT
&	AND
+ / -	DIMENSION TOLERANCE

SYMBOLS



PROPERTY LINE
CUT LINE
CENTER LINE
STATION POINT
REVISION RECORD
MATCH LINE
SECTION REFERENCE
DETAIL CALLOUT
LARGE SCALE PLAN OR ENLARGED DETAIL
LEADER
DIMENSION



DIMENSION (RADIUS, ANGLE AND FOCI)
DIMENSION (ARC LENGTH)
ALIGN
KEY NOTE
UDERGROUND VAULT ROOM AND VENTS
UTILITY MANHOLE, SEE CIVIL

PLANS PREPARED BY:
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HargreavesJones
Hargreaves Jones Landscape Architecture

CITY OF LOS ANGELES — DEPARTMENT OF PUBLIC WORKS — BUREAU OF ENGINEERING

VERT. CONTROL: BM 12-04070, 1929 (NGVD29) - 1985 ADJUSTMENT
HORIZ. CONTROL: GPS, PID AE 1704, EPOCH 1991.35

SHEET TITLE: LANDSCAPE NOTES & ABBREVIATIONS
PROJECT: SIXTH STREET PARK, ARTS AND RIVER CONNECTIVITY IMPROVEMENTS (PARC)
ADDRESS: SIXTH STREET OVER THE LOS ANGELES RIVER

GARY LEE MOORE, P.E., ENV SP — CITY ENGINEER
DESIGN GROUP
LANDSCAPE ARCHITECT: MARY MARGARET JONES — LIC. NO. — DATE: 07/11/2022
DESIGNED BY: MARY MARGARET JONES
DRAWN BY: MEGAN ESOPENKO
CHECKED BY: GAVIN MCMILLAN
APPROVED BY: MARY MARGARET JONES

THIS PLAN WAS ELECTRONICALLY SIGNED AND STAMPED.

NO. | REVISIONS: | DATE: | BY:

INDEX NO.
BUILDING NO.

WORK ORDER NO. E700235D
FILE NO. --
DRAWING NO. L-001
SHEET 80 OF 295 SHEETS

REVISION DATES (DESIGN STAGE ONLY)

Sheet Version 3.0

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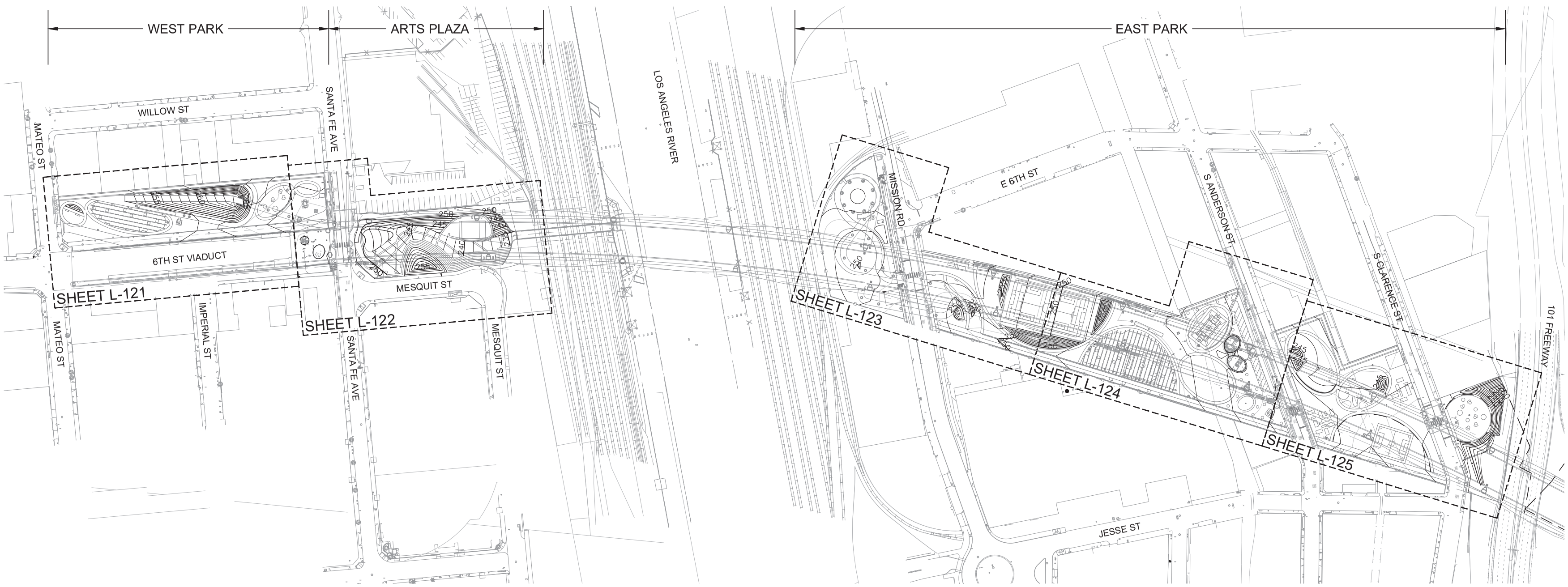
BID SET - NOT FOR CONSTRUCTION - 07/11/2022



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HargreavesJones
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VERT. CONTROL: BM 12-04070, 1929 (NGVD29) - 1985 ADJUSTMENT
HORIZ. CONTROL: GPS, PID AE 1704, EPOCH 1991.35

SHEET TITLE: SITE GRADING PLAN

PROJECT: SIXTH STREET PARK, ARTS AND RIVER CONNECTIVITY IMPROVEMENTS (PARC)

ADDRESS: SIXTH STREET OVER THE LOS ANGELES RIVER

GARY LEE MOORE, P.E., ENV SP — CITY ENGINEER
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LANDSCAPE ARCHITECT: MARY MARGARET JONES — LIC. NO. — 07/11/2022
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WORK ORDER NO. E700235D
FILE NO. --
DRAWING NO. L-016
SHEET 81 OF 295 SHEETS

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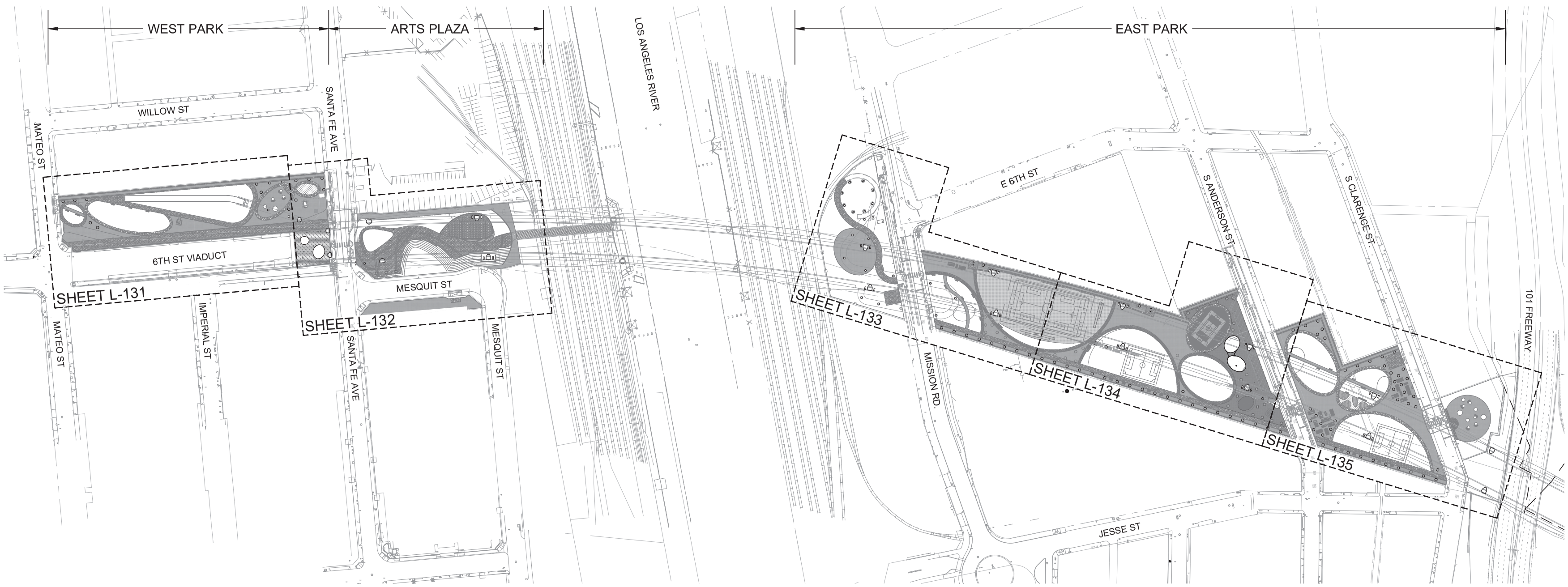

0 60' 120' 240'
SCALE 1" = 120'

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CITY OF LOS ANGELES — DEPARTMENT OF PUBLIC WORKS — BUREAU OF ENGINEERING

VERT. CONTROL: BM 12-04070, 1929 (NGVD29) - 1985 ADJUSTMENT
HORIZ. CONTROL: GPS, PID AE 1704, EPOCH 1991.35

SHEET TITLE: SITE HARDSCAPE PLAN

PROJECT: SIXTH STREET PARK, ARTS AND RIVER CONNECTIVITY IMPROVEMENTS (PARC)

ADDRESS: SIXTH STREET OVER THE LOS ANGELES RIVER

GARY LEE MOORE, P.E., ENV SP — CITY ENGINEER

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WORK ORDER NO. E700235D
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CITY OF LOS ANGELES — DEPARTMENT OF PUBLIC WORKS — BUREAU OF ENGINEERING

ENGINEERING — CITY OF LOS ANGELES

SHEET TITLE: SITE TREE AND UNDERSTORY PLAN

PROJECT: SIXTH STREET PARK, ARTS AND RIVER CONNECTIVITY IMPROVEMENTS (PARC)

ADDRESS: SIXTH STREET OVER THE LOS ANGELES RIVER

VERT. CONTROL: BM 12-04070, 1929 (NGVD29) - 1985 ADJUSTMENT

HORIZ. CONTROL: GPS, PID AE 1704, EPOCH 1991.35

WORK ORDER NO. E7002350

FILE NO. --

DRAWING NO. L-019

SHEET 83 OF 295 SHEETS

GARY LEE MOORE, P.E., ENV SP — CITY ENGINEER

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APPROVED BY: MARY MARGARET JONES

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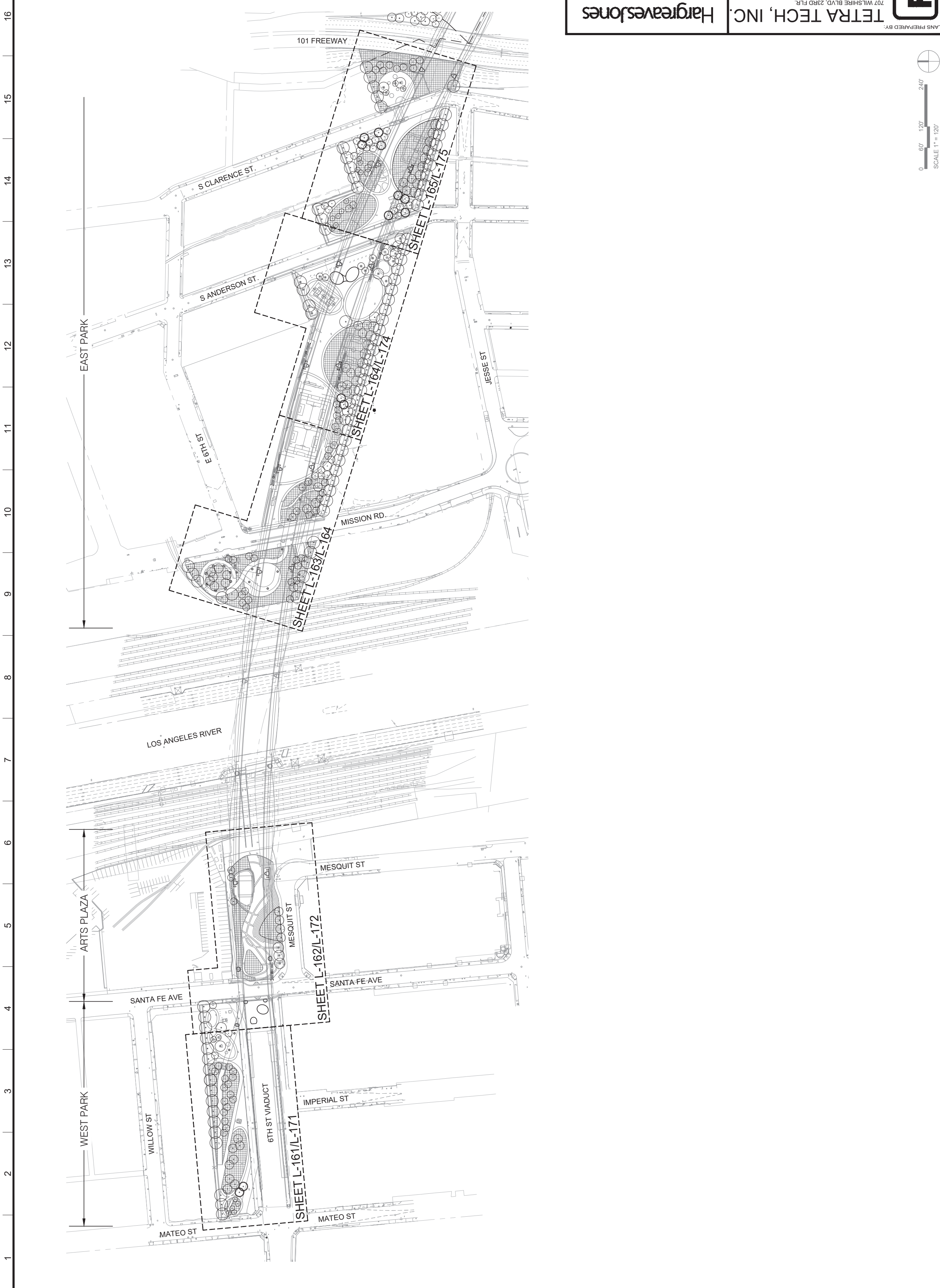
Hargreaves Jones Landscape Architecture



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PAVEMENT SYMBOL	ABBREV.	ELEMENT	MATERIAL ASSEMBLY SUMMARY - REFER DRAWINGS & SPECIFICATION FOR COMPLETE DESCRIPTION	DETAIL REFERENCE	NOTES	PRODUCTS & MANUFACTURERS #1	PRODUCTS & MANUFACTURERS #2	PRODUCTS & MANUFACTURERS #3
	PVMT - 1	PED. SPACE	**GRANITE UNIT PAVING ON SLAB**	1/C-609				
		PRIMARY, RIGID	24" X 1.5" THK. NOM. HEXAGONAL CUT GRANITE UNIT PAVER		H10 LOADING, SHOP DRAWINGS, EJ <16' O.C, WATER JET CURVES, THERMAL FINISH	GOLDEN BRASIL GRANITE BY COLD SPRINGS GRANITE	KASHMIR GOLD GRANITE BY SOUTHLAND STONE	NEW VENETIAN GOLD GRANITE BY STONE AND TILE
					GROUT JOINTS	COLOR TO MATCH PAVER, APPROVAL PER LANDSCAPE ARCHITECT	COLOR TO MATCH PAVER, APPROVAL PER LANDSCAPE ARCHITECT	COLOR TO MATCH PAVER, APPROVAL PER LANDSCAPE ARCHITECT
					2" REINFORCED LATEX MORTAR BED	PLANICRETE AC & KERABOND/KERALASTIC SYSTEM BY MAPEI	209 FLOOR MUD & 254 PLATINUM BOND COAT BY LATICRETE	DECK MUD & ACRYLIC FORTIFIER & VENEER STONE MORTAR
					REFER TO CIVIL DRAWINGS FOR PAVEMENT SECTION.			
	PVMT - 2 A/B	PED. PATH	**CAST IN PLACE CONCRETE SLAB**	2/C-609				
		PRIMARY, RIGID	CONCRETE SLAB		FINISH 2A: LIGHT EXPOSED AGGREGATE;	TOPCAST BY RESOURCE BUILDING MATERIAL, #5 FINISH	SCOFIELD LITHOCAST BY SIKA CORP, # 3 FINISH	APPROVED EQUAL
					FINISH 2B: HEAVY SANDBLAST ON TOP OF FINISH 2A			
					REFER TO CIVIL DRAWINGS FOR PAVEMENT SECTION.			
	PVMT - 3	PED. PATH	**CAST IN PLACE CONCRETE SLAB**	3/C-609				
		SECONDARY, RIGID	CONCRETE SLAB		EXPOSED AGGREGATE FINISH	TOPCAST BY RESOURCE BUILDING MATERIAL, #25 FINISH	SCOFIELD LITHOCAST BY SIKA CORP, # 15 FINISH	APPROVED EQUAL
					REFER TO CIVIL DRAWINGS FOR PAVEMENT SECTION.			
	PVMT - 4	PED. SPACE	**COATED CONCRETE SLAB**	3/C-609				
		PRIMARY, RIGID	EXTERIOR PAINT		2 COATS, COLOR: YELLOW-RANGE, AS PER ARCHITECTS APPROVAL	MARQUEE BY BEHR, FINISH: SEMI-GLOSS	APPROVED EQUAL	APPROVED EQUAL
	PVMT - 5	PED. SPACE	**CONCRETE UNIT PAVING**	4/C-609				
		PRIMARY, FLEXIBLE	8"X 3" NOM. HEXAGONAL CONCRETE UNIT PAVER		EXPOSED AGGREGATE FINISH	HEXAGON PAVERS BY ACKERSTONE WITH PLASTIC SPACERS	HEXAGONAL PAVERS BY WASAU TILE WITH PLASTIC SPACERS	APPROVED EQUAL
					3 COLOR BLEND	60% STANFORD SAND, 20% CHARCOAL, 20% MOCHA BROWN	60% HRL-20, 20% HRL-40, 20% HRL-37	
					FINISH	GRIND AND SHOTBAST	RIDGELINE	
			BASE COURSING		REFER TO CIVIL DRAWINGS FOR PAVEMENT SECTION.			
	PVMT - 6A	PED. SPACE	**CRUSHED STONE**	5/C-609				
		SECONDARY, FLEXIBLE	4" CRUSHED STONE		1/4" MINUS AGGREGATE	CALIFORNIA GOLD DG BY GAIL MATERIALS	CALIFORNIA GOLD DG BY EARTH STONE ROCK	DESERT GOLD BY TRI-STATE MATERIALS
			ORGANIC BINDER		PVMT TYPE 6A ONLY	ORGANIC LOCK STABILIZER BY GAIL MATERIALS	ORGANIC-LOCK BY ENVIROBOND	STABILIZER BY STABILIZER SOLUTIONS
			BASE COURSE		REFER TO CIVIL DRAWINGS FOR PAVEMENT SECTION.			
	PVMT - 6B	PED. SPACE	**CRUSHED STONE**	5/C-609				
		SECONDARY, FLEXIBLE	4" CRUSHED STONE		1/4" MINUS AGGREGATE	CALIFORNIA GOLD DG BY GAIL MATERIALS	CALIFORNIA GOLD DG BY EARTH STONE ROCK	DESERT GOLD BY TRI-STATE MATERIALS
			BASE COURSE		REFER TO CIVIL DRAWINGS FOR PAVEMENT SECTION.			
	PVMT - 7	PED. SPACE	**CRUSHED STONE ADMIXTURE BOUND**	5/C-609				
		SECONDARY, FLEXIBLE	4" CRUSHED STONE		1/4" MINUS AGGREGATE	CALIFORNIA GOLD DG BY GAIL MATERIALS	CALIFORNIA GOLD DG BY EARTH STONE ROCK	DESERT GOLD BY TRI-STATE MATERIALS
			ADMIXTURE BINDER			GRANITECRETE BY GRANITECRETE	STALOK BY STABILIZER SOLUTIONS	TERRA PAVE BY WZ SUPPLY
			BASE COURSE		REFER TO CIVIL DRAWINGS FOR PAVEMENT SECTION.			
	PVMT - 8	PED. SPACE	**TUNNEL RESURFACING**	9/C-601		KWIKBOND PPC 1121 POLYESTER POLYMER CONCRETE	APPROVED EQUAL	APPROVED EQUAL
		RIGID	POLYMER OVERLAY		REFER TO CIVIL DRAWINGS FOR PAVEMENT SECTION.			
	PVMT - 9 A/B	SPORTS COURTS	**COATED ASPHALT**	6/C-609				
		RIGID	ACRYLIC STRIPING		1 COAT PRIMER, 1 COAT WHITE STRIPING	SEAL-A-LINE AND NOVATEX BY NOVAL SPORTS USA	STRIPE-RITE AND LINE PAINT BY SPORT MASTER	LINE PAINT BY CALIFONRIA SPORTS SURFACES
			ACRYLIC SURFACE		2 COATS EACH COLOR; SAND ADDITIVE FOR SLIP RESISTANCE	NOVAPLAY BY NOVA SPORTS USA	COLOR PLUS NEUTRAL CONCENTRATE AND PIGMENT BY SPORT MASTER	PLEXIPAVE BY CALIFORNIA SPORTS SURFACES
					COLORS 9A, 9B	9A: TERRA COTTA, 9B: SAND DUNE	9A: BRIGHT RED, 9B: SANDSTONE	9A: CALIFORNIA RED, 9B: SAHARA SAND
			ACRYLIC RESURFACER		1 COAT	NOVASURFACE BY NOVA SPORTS USA	FLEXIBLE ACRYLIC RESURFACER BY SPORT MASTER	ACRYLIC RESURFACER BY CALIFORNIA SPORTS SURFACES
			ASPHALT PAVEMENT		REFER TO CIVIL DRAWINGS FOR PAVEMENT SECTION.			
	PVMT - 10 A/B	PROTECTIVE	**SAFETY SURFACING**	7/C-609				
		SURFACING	SEAMLESS POURED SURFACING		EPD RUBBER SURFACING	EVERTOP SAFETY SURFACE BY SURFACE AMERICA	SAFETY SURFACE BY DURAPLAY	POUR IN PLACE RUBBER BY CREATIVE RECREATIONAL SYSTEM
					COLOR 10A: 3 COLOR BLEND	33% PEARL, 33% DARK GREY, 33% YELLOW	33% CREAM, 33% CHARCOAL, 33% YELLOW	33% PEARL, 33% DARK GREY, 33% YELLOW
					COLOR 10B: 2 COLOR BLEND	50% PEARL, 50% DARK GREY	50% CREAM, 50% CHARCOAL	50% PEARL, 50% DARK GREY
			CONCRETE SLAB		REFER TO CIVIL DRAWINGS FOR PAVEMENT SECTION.			
	PVMT - 11	SURFACING	**SYNTHETIC TURF**	1/C-601				
		FIELDS	SYNTHETIC ALL WEATHER GRASS SYSTEM		WITH NYLON MONOFILAMENT THATCH LAYER, COLOR: GRASS GREEN	CHALLENGER INDUSTRIES, INC.	ASTROTURF	HELLAS CONSTRUCTION
			ATHLETIC FIELD MARKINGS		INLAID, WHITE			
			DRAINAGE AND CUSHION MAT		PERFORATED FOR DRAINAGE, MIN 1/4" DIA AT 4" O.C ACROSS MIN 95% OF TURF ROLL			
			INFILL		MESH SIZE 12-20	SEE SPECIFICATIONS	SEE SPECIFICAITONS	SEE SPECIFICATIONS
			LINER, LEVELING COURSE, AND SUBDRAINAGE		REFER TO CIVIL DRAWINGS FOR PAVEMENT SECTION.			

REVISION DATES (DESIGN STAGE ONLY)

Sheet Version 3.0

PLANS PREPARED BY:
TETRA TECH, INC.
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PHONE: (213) 239-8866

HargreavesJones
Hargreaves Jones Landscape Architecture

CITY OF LOS ANGELES — DEPARTMENT OF PUBLIC WORKS — BUREAU OF ENGINEERING

VERT. CONTROL: BM 12-04070, 1929 (NGVD29) - 1985 ADJUSTMENT
HORIZ. CONTROL: GPS, PID AE 1704, EPOCH 1991.35

SHEET TITLE: MATERIALS LEGEND AND SCHEDULE

PROJECT: SIXTH STREET PARK, ARTS AND RIVER CONNECTIVITY IMPROVEMENTS (PARC)

ADDRESS: SIXTH STREET OVER THE LOS ANGELES RIVER

GARY LEE MOORE, P.E., ENV SP — CITY ENGINEER — DATE:
DESIGN GROUP
LANDSCAPE ARCHITECT: MARY MARGARET JONES — LIC. NO. — 07/11/2022
DESIGNED BY: MARY MARGARET JONES
DRAWN BY: MEGAN ESOPENKO
CHECKED BY: GAVIN MCMILLAN
APPROVED BY: MARY MARGARET JONES

THIS PLAN WAS ELECTRONICALLY SIGNED AND STAMPED.

NO. | REVISIONS: | DATE | BY:

INDEX NO.

BUILDING NO.

WORK ORDER NO. E700235D
FILE NO. --
DRAWING NO. L-030
SHEET 84 OF 295 SHEETS

ENGINEERING — CITY OF LOS ANGELES

BID SET - NOT FOR CONSTRUCTION - 07/11/2022

SITE FURNISHING SYMBOL	ABBREV.	ELEMENT	MATERIAL ASSEMBLY SUMMARY - REFER DRAWINGS & SPECIFICATION FOR COMPLETE DESCRIPTION	DETAIL REFERENCE	NOTES	PRODUCTS & MANUFACTURERS #1	PRODUCTS & MANUFACTURERS #2
	FURN-1A	BENCH	POWDER COATED STEEL	1/L-540			
		MEDIUM - STRAIGHT	8' x 5/8" DIA. POWER COATED STEEL WIRE ROD SEAT		POWDER COATED STEEL, SILVER	LIBRE BENCHES COLLECTION BY ID CREATED INC, SILVER SABLE #MW 3021	APPROVED EQUAL
			2" x 6" X 12" POWDER COATED STEEL LEGS			DIMENSION: 23"W X 18"H X 78"L	
			WITH BACKS AND ARMRESTS, MODULAR			PHONE: 760.690.8557 EMAIL: INFO@IDCREATED.COM	
			EMBEDDED MOUNT TO CONCRETE FOOTING			ADDRESS: 1782 LA COSTA MEADOWS DRIVE, SUITE 104, SAN MARCOS, CA 92078	
						WEBSITE: WWW.IDCREATED.COM	
	FURN-1B	BENCH	POWDER COATED STEEL	2/L-540			
		MEDIUM - CURVED	8' x 5/8" DIA. POWER COATED STEEL WIRE ROD SEAT		POWDER COATED STEEL, SILVER	LIBRE BENCHES COLLECTION BY ID CREATED INC, SILVER SABLE #MW 3021	APPROVED EQUAL
			2" x 6" X 12" POWDER COATED STEEL LEGS			DIMENSION: 23"W X 18"H X 67"L (43.7" DIA RADIUS)	
			WITH BACKS, MODULAR			PHONE: 760.690.8557 EMAIL: INFO@IDCREATED.COM	
			EMBEDDED MOUNT TO CONCRETE FOOTING			ADDRESS: 1782 LA COSTA MEADOWS DRIVE, SUITE 104, SAN MARCOS, CA 92078	
						WEBSITE: WWW.IDCREATED.COM	
OO	FURN-2	WASTE	POWDER COATED STEEL	1/L-541			
		RECEPTACLES	TWIN SET, 55 GAL., LINER PROVIDED BY OWNER		CITY STANDARD, LANDFILL & RECYCLE GRAPHICS, COLOR:SILVER	READING RED3-55 BY KEYSTONE RIDGE DESIGNS, SPARKLE SILVER #49/90450	APPROVED EQUAL
			SIDE DOOR ACCESS, LOCKING TAB, FLAT LID			DIMENSION: 28"DIA X 42"H	
			SURFACE MOUNT			PHONE: 724.284.1213 EMAIL: SALES@KRDUSA.COM	
						ADDRESS: 670 MERCER ROAD BUTLER, PA 16001	
						WEBSITE: WWW.KEYSTONERIDGEDESIGNS.COM	
	FURN-3	DOG WASTE UNIT	POWDER COATED STEEL	2/L-541			
			DISPENSER BIN AND RECEPTACLE CAGE		PROPRIETARY, POWDER COATED STEEL, SILVER	TRASH RECEPTACLE DOG PARK BY LANDSCAPE FORMS, SILVER	APPROVED EQUAL
						DIMENSION: 27" X 11" DIA RECEPTACLE CAGE X 6" DIA BAG DISPENSER	
			EMBEDDED MOUNT TO CONCRETE FOOTING			PHONE:800.430.6209 EMAIL: COMMENTS@LANDSCAPEFORMS.COM	
						ADDRESS: 7800E. MICHIGAN AVE. KALAMAZOO, MI 49048	
						WEBSITE:WWW.LANDSCAPEFORMS.COM	
	FURN-4	PICNIC UNIT	POWDER COATED STEEL	1/L-542			
			8' x 1/2" DIA. STEEL ROD SEAT & TABLE		PROPRIETARY, POWDER COATED STEEL, SILVER	AIR-A COLLECTION BENCH-TABLE BY ID CREATED INC, SILVER SABLE #MW 3021	STEELSITES COLLECTION FBF-56 MODEL BY VICTORSTANLEY, RAL-SILVER
			TRIANGULAR STEEL SUPPORTS		MODIFIED FOR WHEELCHAIR ACCESSIBILITY	DIMENSION 66.9"X86.6"X30"	DIMENSION: 36"X96" MODEL WITH 72" MODEL BENCH
			EMBEDDED MOUNT TO CONCRETE FOOTING			PHONE: 760.690.8557 EMAIL: INFO@IDCREATED.COM	PHONE: 301.855.8300 EMAIL: SALES@VICTORSTANLEY.COM
						ADDRESS: 1782 LA COSTA MEADOWS DRIVE, SUITE 104, SAN MARCOS, CA 92078	ADDRESS: P.O. DRAWER 330 DUNKIRK, MD 20754 USA
						WEBSITE: WWW.IDCREATED.COM	WEBSITE: WWW.VICTORSTANLEY.COM
	FURN-5	PICNIC GRILL	POWDER COATED STEEL	2/L-542			
			FIRE BOX MADE OF 3/16" STEEL		PROPRIETARY, HEAT RESISTENT BLACK ENAMEL PAINT	CBP-247 SERIES CHARCOAL GRILL BY PILOT ROCK	H-16 SERIES CHARCOAL GRILL BY PILOT ROCK
			300 SQ. IN. COOKING SURFACE WITH 1/2"W STEEL BARS			DIMENSION: 24"X16"	DIMENSION: 16"X16
			EMBEDDED MOUNT TO CONCRETE FOOTING			PHONE: 800.762.5002	PHONE: 800.762.5002
						ADDRESS: R.J. THOMAS MFG. CO. INC PO BOX 946 CHEROKEE, IA 51012-0946	ADDRESS: R.J. THOMAS MFG. CO. INC PO BOX 946 CHEROKEE, IA 51012-0946
						WEBSITE: WWW.PILOTROCK.COM	WEBSITE: WWW.PILOTROCK.COM
	FURN-6	PRECAST BENCH 24"	PRECAST CONCRETE	1/L-544		URBANSTYLE BY WAUSAU TILE	APPROVED EQUAL
			PREFABRICATED CONCRETE ASSEMBLY		FINISH: ACID WASH, COLOR A30	PRODUCT ASSEMBLY: ZB.CE.02, ZB.CE.03, ZB.CB.04	
			HIDDEN ANCHORING			PHONE: 800.388.8728	
						ADDRESS: PO BOX 1520, WAUSAU, WI 54402-1520	
						WEBSITE: WWW.WAUSAUTILE.COM	
	FURN-7	PRECAST BENCH 48"	PRECAST CONCRETE	2/L-544		URBANSTYLE BY WAUSAU TILE	APPROVED EQUAL
			PREFABRICATED CONCRETE ASSMEBLY		FINISH: ACID WASH, COLOR A30	PRODUCT ASSEMBLY: ZB.CE.13, ZB.CE.16	
			HIDDEN ANCHORING			PHONE: 800.388.8728	
						ADDRESS: PO BOX 1520, WAUSAU, WI 54402-1520	
						WEBSITE: WWW.WAUSAUTILE.COM	
I I I	BRAK-1	BIKE RACK	POWDER COATED STEEL	1/L-543			
		SHORT TERM	34" HEIGHT		PROPRIETARY, POWDER COATED STEEL, SILVER	U' BIKE RACK U190-P BY MADRAX, PLATINUM	BRWS-101 BY VICTOR STANLEY, RAL-SILVER
			EMBEDDED MOUNT TO CONCRETE FOOTING			DIMENSION: 20"W X 34"H WITH 1 7/8" DIA STEEL TUBING	DIMENSION 36"X22"X2-3/8" DIA STEEL TUBING
						PHONE: 608.849.1080 EMAIL:SALES@MADRAX.COM	PHONE: 951.299.9394 EMAIL: DAVIDS@AVALONAMENITIES.COM
						ADDRESS: 1080 UNIEK DRIVE WAUNAKEE, WI 53597	WEBSITE: WWW.VICTORSTANLEY.COM
						WEBSITE: WWW.MADRAX.COM	
	WATR-1	WATER STATIONS	STAINLESS STEEL PEDESTAL	2/L-543			
			18 GAGE, 304 STAINLESS STEEL BOWLS & BOTTLE FILLER		PROPRIETARY, PUSH BOTTON, ACCESS PANEL, 100% LEAD-FREE, SILVER	MODEL GYQ84-PF OPTION BY MURDOCK, STAINLESS STEEL	GT1100-GTPET WITH PET BOWL FOUNTAIN BY GLOBAL TAP STATION
			WITH PET OPTION			DIMENSION: 30"X52"	DIMENSION 43"X11"
			DRAIN OUTLET		REFER TO CIVIL DRAWINGS 3/C-605	PHONE: 800.453.7495	PHONE: 312.850.1110 EMAIL: INFO@GLOBALTAP.ORG
			EMBEDDED MOUNT TO CONCRETE FOOTING		REFER TO CIVIL DRAWINGS 3/C-605	ADDRESS: 15125 PROCTOR AVENUE CITY OF INDUSTRY, CA 91746	WEBSITE: WWW.GLOBALTAP.ORG
						WEBSITE: WWW.MURDOCKMFG.COM	
	BLDR-1	SMALL BOULDERS	SMALL BOULDERS AT DOG PARK TREES	3/L-541			
			12-INCH MIN DIA. X 18" MIN DEPTH, MATCHED		ANGULAR TOP, FLAT SIDES	CALIFORNIA GOLD ANGULAR STONE BOULDERS BY EARTH STONE ROCK	MEXICAN ONYX ANGULAR BOULDERS BY SOUTH COAST SUPPLY
	BLDR-2	LARGE BOULDERS	LARGE BOULDERS AT DOG PARK	4/L-541			
			30-INCH MIN ANGULAR STONE BOULDERS		ALL BOULDERS TO HAVE FLAT TOPS	CALIFORNIA GOLD ANGULAR STONE BOULDERS BY EARTH STONE ROCK	MEXICAN ONYX ANGULAR BOULDERS BY
			FILLED JOINTS		1/4" MINUS DECOMPOSED GRANITE	CALIFORNIA GOLD BY BY EARTH STONE ROCK	CALIFORNIA GOLD BY SOUTH COAST SUPPLY
. . . .	SKAT-1	SKATE DETERRENTS	SKATE DETERRENTS AT ARTS PLAZA	4/L-544			
			1" DIA. STAINLESS STEEL HEMI-SHAPED DETERRENT		STANDARD BRUSH FINISH	HEMI GRINDER MINDER BY PARK WAREHOUSE	

REVISION DATES (DESIGN STAGE ONLY)

Sheet Version 3.0

PLANS PREPARED BY:
TETRA TECH, INC.
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HargreavesJones
Hargreaves Jones Landscape Architecture

CITY OF LOS ANGELES — DEPARTMENT OF PUBLIC WORKS — BUREAU OF ENGINEERING

VERT. CONTROL: BM 12-04070, 1929 (NGVD29) - 1985 ADJUSTMENT
HORIZ. CONTROL: GPS, PID AE 1704, EPOCH 1991.35

SHEET TITLE: FURNISHINGS LEGEND AND SCHEDULE
PROJECT: SIXTH STREET PARK, ARTS AND RIVER CONNECTIVITY IMPROVEMENTS (PARC)
ADDRESS: SIXTH STREET OVER THE LOS ANGELES RIVER

GARY LEE MOORE, P.E., ENV SP — CITY ENGINEER
DESIGN GROUP
LANDSCAPE ARCHITECT: MARY MARGARET JONES LIC. NO.
DATE: 07/11/2022
DESIGNED BY: MARY MARGARET JONES
DRAWN BY: MEGAN ESOPENKO
CHECKED BY: GAVIN MCMILLAN
APPROVED BY: MARY MARGARET JONES

THIS PLAN WAS ELECTRONICALLY SIGNED AND STAMPED.

NO. | REVISIONS: | DATE | BY:

INDEX NO.
BUILDING NO.

WORK ORDER NO. E700235D
FILE NO. --
DRAWING NO. L-040
SHEET 85 OF 295 SHEETS

ENGINEERING — CITY OF LOS ANGELES

2022-07-05 8:57:15 PM - C:\USERS\MESOPENKO\ONEDRIVE - HARGREAVES\SSV 1601 - SIXTH STREET VIADUCT\300_CREATE\310_HA WORKING FILES\06_TECHNICAL\06_100-CD\50_SHEETS\L-040 FURNISHINGS LEGEND AND SCHEDULE.DWG - MEGAN ESOPENKO

BID SET - NOT FOR CONSTRUCTION - 07/11/2022

RAILS, FENCES & BARRIERS

SYMBOL	ABBREV.	ELEMENT	MATERIAL ASSEMBLY SUMMARY - REFER DRAWINGS & SPECIFICATION FOR COMPLETE DESCRIPTION	DETAIL REFERENCE	NOTES	PRODUCTS & MANUFACTURERS #1	PRODUCTS & MANUFACTURERS #2
	GRAL-1	GUARDRAIL	**STAINLESS STEEL FRAME WITH STAINLESS STEEL CABLE**	1&2&4/L-535			
			42" HIGH, 2" DIA. X 1/4" STAINLESS STEEL TUBE TOP RAIL		CUSTOM; #6 SATIN FINISH, TOP RAIL RADIUS TO MATCH CURVED WALLS	CABLE RAILING BY VIVA RAILINGS MODULAR RAIL SYSTEMS	CABLE RAILING BY JAKOB ROPE SYSTEM
			2" DIA. X 1/4" STAINLESS STEEL TUBE END POSTS		PROPRIETARY, #6 SATIN FINISH	ADDRESS: 151 W. VISTA RIDGE MALL DR. LEWISVILLE, TX 75067	ADDRESS: 2665 NW 1ST AVE, BOCA RATON, FL 33431
			3/16" DIA. 316 SST HORIZONTAL WIRE CABLE INFILL		PROPRIETARY, ADJUSTABLE STUD TURNBUCKLE ASSEMBLY	WEBSITE: WWW.VIVARAILINGS.COM	WEBSITE: WWW.JAKOB-USA.COM
			CORED MOUNT TO CONCRETE FOOTING		REFER TO STRUCTURAL DRAWINGS 2/S-402		
	GRAL-2	GUARDRAIL WITH HANDRAIL	**STAINLESS STEEL FRAME WITH STAINLESS STEEL CABLE**	3/L-535			
			42" HIGH, 2" DIA. X 1/4" STAINLESS STEEL TUBE TOP RAIL		CUSTOM; #6 SATIN FINISH, TOP RAIL RADIUS TO MATCH CURVED WALLS	CABLE RAILING BY VIVA RAILINGS MODULAR RAIL SYSTEMS	CABLE RAILING BY JAKOB ROPE SYSTEM
			2" DIA. X 1/4" STAINLESS STEEL TUBE HAND RAIL		CUSTOM; #6 SATIN FINISH, TOP RAIL RADIUS TO MATCH CURVED WALLS	PHONE: 972.353.8482	PHONE: 561.330.6502
			2" DIA. X 1/4" STAINLESS STEEL TUBE END POSTS		PROPRIETARY, #6 SATIN FINISH	ADDRESS: 151 W. VISTA RIDGE MALL DR. LEWISVILLE, TX 75067	ADDRESS: 2665 NW 1ST AVE, BOCA RATON, FL 33431
			3/16" DIA. 316 SST HORIZONTAL WIRE CABLE INFILL		PROPRIETARY, ADJUSTABLE STUD TURNBUCKLE ASSEMBLY	WEBSITE: WWW.VIVARAILINGS.COM	WEBSITE: WWW.JAKOB-USA.COM
			CORED MOUNT TO CONCRETE FOOTING		REFER TO STRUCTURAL DRAWINGS 2/S-401		
	FENC-1	2' FENCE	**GALVANIZED STEEL WIRE**	1/L-536			
			2' HIGH HOT DIPPED GALVANIZED POSTS		PROPRIETARY, SILVER POWDER-COAT	CLEARVU-2' BY COCHRANE	OMEGA ELITE-2' BY OMEGA
			DOUBLE WIRE INFILL, POWDERCOAT		PROPRIETARY, SILVER POWDER-COAT	PHONE: 202.853.3227	DIMENSION: 96"H X 99" STANDARD LENGTH
			EMBEDDED MOUNT TO CONCRETE FOOTING		REFER TO CIVIL DRAWINGS 1/C-612	WEBSITE: WWW.CLEARVU.COM	PHONE: 800.836.6342
							WEBSITE: WWW.METALTECH-OMEGA.COM
	FENC-2	4' FENCE	**GALVANIZED STEEL WIRE**	1/L-537			
			4' HIGH HOT DIPPED GALVANIZED POSTS		PROPRIETARY, SILVER POWDER-COAT	CLEARVU-4' BY COCHRANE	OMEGA ELITE-4' BY OMEGA
			DOUBLE WIRE INFILL, POWDERCOAT		PROPRIETARY, SILVER POWDER-COAT	PHONE: 202.853.3227	DIMENSION: 48"H X 99" STANDARD LENGTH
			EMBEDDED MOUNT TO CONCRETE FOOTING		REFER TO CIVIL DRAWINGS 1/C-612	WEBSITE: WWW.CLEARVU.COM	PHONE: 800.836.6342
							WEBSITE: WWW.METALTECH-OMEGA.COM
	FENC-3	8' FENCE	**GALVANIZED STEEL WIRE**	1/L-538			
			8' HIGH HOT DIPPED GALVANIZED POSTS		PROPRIETARY, SILVER POWDER-COAT	CLEARVU-8' BY COCHRANE	OMEGA ELITE-8' BY OMEGA
			DOUBLE WIRE INFILL, POWDERCOAT		PROPRIETARY, SILVER POWDER-COAT	PHONE: 202.853.3227	DIMENSION: 96"H X 99" STANDARD LENGTH
			EMBEDDED MOUNT TO CONCRETE FOOTING		REFER TO CIVIL DRAWINGS 1/C-612	WEBSITE: WWW.CLEARVU.COM	PHONE: 800.836.6342
							WEBSITE: WWW.METALTECH-OMEGA.COM
	FENC-4	20' FENCE	**ALUMINUM POST MESH**	2/L-539			
			20' HIGH ALUMINIUM POSTS WTH COATED CABLE CONNECTORS			SPORTS NETTING BY JUDGE NETTING	OFFSET BALL STOPPER 20' SPORT NETTING BY AAE
			1-3/4" SQ. NETTING KNOTTED NYLON		PROPRIETARY	DIMENSION: CUSTOMIZED	DIMENSION: 20' H
			EMBEDDED MOUNT TO CONCRETE FOOTING		REFER TO CIVIL DRAWINGS 2/C-611	PHONE: 800.955.6788	PHONE: 800.523.5471 EMAIL: INFO@AAESPORTS.COM
						ADDRESS: 427 E.17TH STREET #489, COSTA MESA, CA 92627	ADDRESS: 1000 ENTERPRISE DRIVE ROYERSFORD, PA 19468-1298
						WEBSITE: WWW.JUDGENETTING.COM	

REVISION DATES (DESIGN STAGE ONLY)

Sheet Version 3.0

PLANS PREPARED BY:
TETRA TECH, INC.
707 WILSHIRE BLVD. 23RD FLR.
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HargreavesJones
Hargreaves Jones Landscape Architecture

CITY OF LOS ANGELES — DEPARTMENT OF PUBLIC WORKS — BUREAU OF ENGINEERING

VERT. CONTROL: BM 12-04070, 1929 (NGVD29) - 1985 ADJUSTMENT
HORIZ. CONTROL: GPS, PID AE 1704, EPOCH 1991.35

SHEET TITLE: FURNISHING AND LIGHTING LEGEND AND SCHEDULE
PROJECT: SIXTH STREET PARK, ARTS AND RIVER CONNECTIVITY IMPROVEMENTS (PARC)
ADDRESS: SIXTH STREET OVER THE LOS ANGELES RIVER

GARY LEE MOORE, P.E., ENV SP — CITY ENGINEER
DESIGN GROUP — DATE:
LANDSCAPE ARCHITECT: MARY MARGARET JONES — LIC. NO. — 07/11/2022
DESIGNED BY: MARY MARGARET JONES
DRAWN BY: MEGAN ESOPENKO
CHECKED BY: GAVIN MCMILLAN
APPROVED BY: MARY MARGARET JONES

THIS PLAN WAS ELECTRONICALLY SIGNED AND STAMPED.

NO.	REVISIONS:	DATE:	BY:
01	35% SCHEMATIC DESIGN	12/13/17	

INDEX NO.
BUILDING NO.
ENGINEERING — CITY OF LOS ANGELES

WORK ORDER NO. E700235D
FILE NO. --
DRAWING NO. L-041
SHEET 86 OF 295 SHEETS

2022-07-05 8:57:18 PM - C:\USERS\MESOPENKO\ONEDRIVE - HARGREAVES\SSV 1601 - SIXTH STREET VIADUCT\300_CREATE\310_HA WORKING FILES\06_TECHNICAL\06_100-CD\50_SHEETS\L-040 FURNISHINGS LEGEND AND SCHEDULE.DWG - MEGAN ESOPENKO

BID SET - NOT FOR CONSTRUCTION - 07/11/2022

SITE FURNISHING SYMBOL	EQUIPMENT NAME	EQUIPMENT TYPE	QUANTITY	NOTES & FINISHES	PRODUCTS & MANUFACTURERS #1	PRODUCTS & MANUFACTURERS #2
WEST PARK						
TRAINING STATION ZONE						
	TRAINING STATION	EXERCISE	1		THRIVE 450 MODEL BY GAMETIME	APPROVED EQUAL
				MULTI-PURPOSE FITNESS STATION	DIMENSION: 30'-4"X17'-9" USE ZONE 19'X32', 10' FALL HEIGHT	
				UPRIGHTS YELLOW	PHONE: 435.245.5055	
				ACCENTS METALIC	ADDRESS: 150 PLAYCORE DRIVE SE FORT PAYNE, ALABAMA 35967	
					WEBSITE: WWW.GAMETIME.COM	
EAST PARK						
AEROBIC ZONE						
	STEP UP	EXERCISE	1		STEP UP FITNESS STATION 13569 MODEL BY GAMETIME	APPROVED EQUAL
				STEP AEROBIC STATION	DIMENSION: USE ZONE 8'-6"X10'-6", 4' FALL HEIGHT	
				UPRIGHTS YELLOW	PHONE: 435.245.5055	
				ACCENTS METALIC	ADDRESS: 150 PLAYCORE DRIVE SE FORT PAYNE, ALABAMA 35967	
					WEBSITE: WWW.GAMETIME.COM	
	RECUMBENT CYCLE	EXERCISE	1	CYCLE AEROBIC STATION	RECUMBENT CYCLE 14922 I MODEL BY GAMETIME	APPROVED EQUAL
				UPRIGHTS YELLOW	DIMENSION: USE ZONE 7'-9"X8'-2", 2'-6" FALL HEIGHT	
				ACCENTS METALIC	PHONE: 435.245.5055	
					ADDRESS: 150 PLAYCORE DRIVE SE FORT PAYNE, ALABAMA 35967	
					WEBSITE: WWW.GAMETIME.COM	
	CARDIO WALKER	EXERCISE	1		CARDIO WALKER 13562I I MODEL BY GAMETIME	APPROVED EQUAL
				ELIPTICAL AEROBIC STATON	DIMENSION: USE ZONE 11'-3" x 10'-9", 4' FALL HEIGHT	
				UPRIGHTS YELLOW	PHONE: 435.245.5055	
				ACCENTS METALIC	ADDRESS: 150 PLAYCORE DRIVE SE FORT PAYNE, ALABAMA 35967	
					WEBSITE: WWW.GAMETIME.COM	
CORE ZONE						
	CAPTAIN'S CHAIR FOOTING MOUNT	EXERCISE	1		CAPTAINS CHAIR FOOTING MOUNT BOX 13560I MODEL BY GAMETIME	APPROVED EQUAL
				MULTIPURPOSE CORE STATON	DIMENSION: USE ZONE 8'-6"X10'-6", 4' FALL HEIGHT	
				UPRIGHTS YELLOW	PHONE: 435.245.5055	
				ACCENTS METALIC	ADDRESS: 150 PLAYCORE DRIVE SE FORT PAYNE, ALABAMA 35967	
					WEBSITE: WWW.GAMETIME.COM	
	BODY CURL STATION	EXERCISE	1		BODY CURL STATION 13579 MODEL BY GAMETIME	APPROVED EQUAL
				SIT UP / LEG LIFT CORE STATON	DIMENSION: USE ZONE 13'-10"X7'-4", 3' FALL HEIGHT	
				UPRIGHTS YELLOW	PHONE: 435.245.5055	
				ACCENTS METALIC	ADDRESS: 150 PLAYCORE DRIVE SE FORT PAYNE, ALABAMA 35967	
					WEBSITE: WWW.GAMETIME.COM	
BALANCE AND FLEXIBILITY ZONE						
	BALANCE PLANK STATION	EXERCISE	1		BALANCE PLANK STATION 13279 MODEL BY GAMETIME	APPROVED EQUAL
				PLANK STATION	DIMENSION: USE ZONE 10'-5"X7'-0", 2' FALL HEIGHT	
				UPRIGHTS YELLOW	PHONE: 435.245.5055	
				ACCENTS METALIC	ADDRESS: 150 PLAYCORE DRIVE SE FORT PAYNE, ALABAMA 35967	
					WEBSITE: WWW.GAMETIME.COM	
	KNEE LIFT STATION	EXERCISE	1		KNEE LIFT 13574 MODEL BY GAMETIME	APPROVED EQUAL
				MULTIPURPOSE BALANCE STATION	DIMENSION: USE ZONE 7'-8"X14'-7", 6'-6" FALL HEIGHT	
				UPRIGHTS YELLOW	PHONE: 435.245.5055	
				ACCENTS METALIC	ADDRESS: 150 PLAYCORE DRIVE SE FORT PAYNE, ALABAMA 35967	
					WEBSITE: WWW.GAMETIME.COM	
COMBINATION FITNESS ZONE						
	COMBINATION FITNESS HUB	EXERCISE	1		COMBINATION FITNESS HUB 13590I MODEL BY GAMETIME	APPROVED EQUAL
				MULTI-PURPOSE FITNESS STATION	DIMENSION: USE ZONE 5'-3"X9'-7", 2' FALL HEIGHT	
				UPRIGHTS YELLOW	PHONE: 435.245.5055	
				ACCENTS METALIC	ADDRESS: 150 PLAYCORE DRIVE SE FORT PAYNE, ALABAMA 35967	
					WEBSITE: WWW.GAMETIME.COM	

PLANS PREPARED BY:
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CITY OF LOS ANGELES — DEPARTMENT OF PUBLIC WORKS — BUREAU OF ENGINEERING

VERT. CONTROL: BM 12-04070, 1929 (NGVD29) - 1985 ADJUSTMENT
HORIZ. CONTROL: GPS, PID AE 1704, EPOCH 1991.35

SHEET TITLE: FURNISHING AND LIGHTING LEGEND AND SCHEDULE
PROJECT: SIXTH STREET PARK, ARTS AND RIVER CONNECTIVITY IMPROVEMENTS (PARC)
ADDRESS: SIXTH STREET OVER THE LOS ANGELES RIVER

GARY LEE MOORE, P.E., ENV SP — CITY ENGINEER
DESIGN GROUP
LANDSCAPE ARCHITECT: MARY MARGARET JONES — LIC. NO. — DATE: 07/11/2022
DESIGNED BY: MARY MARGARET JONES
DRAWN BY: MEGAN ESOPENKO
CHECKED BY: GAVIN MCMILLAN
APPROVED BY: MARY MARGARET JONES

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WORK ORDER NO. E700235D
FILE NO. --
DRAWING NO. L-042
SHEET 87 OF 295 SHEETS

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2022-07-05 8:57:22 PM - C:\USERS\MESOPENKO\ONEDRIVE - HARGREAVES\SSV 1601 - SIXTH STREET VIADUCT\300_CREATE\310_HA WORKING FILES\06_TECHNICAL\06_100-CD\50_SHEETS\L-040 FURNISHINGS LEGEND AND SCHEDULE DWG - MEGAN ESOPENKO

LANDSCAPE SOILS SYMBOL	ABBREVIATION	ELEMENT	MATERIAL ASSEMBLY PROFILE SUMMARY - REFER DRAWINGS & SPECIFICATIONS FOR COMPLETE DESCRIPTION	NOTES	PRODUCTS & MANUFACTURERS #1
	SOIL-1A	HIGHER-USE LAWN	**COARSE SAND MIX**		
			6" TOPSOIL WITH GREATER ORGANIC MATTER	TILL INTERFACE WITH SUBSOIL	REFER SPECIFICATION
			6" MIN. SUBSOIL WITH LESSER ORGANIC MATTER, 8" WITHIN EPIC SYSTEM	SCARIFY INTERFACE WITH SUBGRADE	REFER SPECIFICATION
			6" MIN. AMENDED & DECOMPACTED SUBGRADE OUTSIDE OF PEDESTAL	RIP, AMEND PH AND/OR SALINITY AS REQUIRED BY TESTS	REFER SPECIFICATION
	SOIL-1B	HIGHER-USE LAWN W/ TREES	**COARSE SAND MIX**		
			6" TOPSOIL WITH GREATER ORGANIC MATTER	TILL INTERFACE WITH SUBSOIL	REFER SPECIFICATION
			36" MIN. SUBSOIL WITH LESSER ORGANIC MATTER	SCARIFY INTERFACE WITH SUBGRADE	REFER SPECIFICATION
			6" NOM. #57 COMPACTED DRAINAGE COURSE PEDESTAL		REFER SPECIFICATION
			6" MIN. AMENDED & DECOMPACTED SUBGRADE	RIP, AMEND PH AND/OR SALINITY AS REQUIRED BY TESTS	REFER SPECIFICATION
	SOIL-2A	PLANTING	**LOAMY SAND**		
			6" TOPSOIL WITH GREATER ORGANIC MATTER	TILL INTERFACE WITH SUBSOIL	REFER SPECIFICATION
			18" MIN. SUBSOIL WITH LESSER ORGANIC MATTER	SCARIFY INTERFACE WITH SUBGRADE	REFER SPECIFICATION
			6" MIN. AMENDED & DECOMPACTED SUBGRADE	RIP, AMEND PH AND/OR SALINITY AS REQUIRED BY TESTS	REFER SPECIFICATION
	SOIL-2B	PLANTING W/ TREES	**LOAMY SAND**		
			6" TOPSOIL WITH GREATER ORGANIC MATTER	TILL INTERFACE WITH SUBSOIL	REFER SPECIFICATION
			36" MIN. SUBSOIL WITH LESSER ORGANIC MATTER	SCARIFY INTERFACE WITH SUBGRADE	REFER SPECIFICATION
			6" NOM. #57 COMPACTED DRAINAGE COURSE PEDESTAL		REFER SPECIFICATION
			6" MIN. AMENDED & DECOMPACTED SUBGRADE OUTSIDE OF PEDESTAL	RIP, AMEND PH AND/OR SALINITY AS REQUIRED BY TESTS	REFER SPECIFICATION
	LBM-1	LOAD BEARING MODULES	**PLASTIC**		
			31" MIN. MODULAR PLASTIC CELLS & ACCESSORIES (AASHTO H-20 RATED)	ANCHOR WITH STAKES INTO SUBGRADE, ZIP-TIE MODULES TOGETHER	SILVACELLS BY DEEPROOT
			NON-WOVEN POLYESTER GEOTEXTILE, >50% RECYCLED CONTENT		GN 100 NEW GREEN GEOTEXTILES BY BTL
			PP/PVA/PET BIAXIAL GEOGRID, 1" NOM. APERTURE, PVC COATED	ZIP-TIE TO MODULES	STRATAGRID SG 150 BY GEOCHEM INC
			4" NOM. #57 COMPACTED DRAINAGE COURSE PAD		REFER SPECIFICATION
	TRF-1	TURF REINFORCING FIBERS	**PLASTIC**		
			PP FIBERS OR MESH	TILL INTO TOPSOIL EVENLY	ATS400/B NETLON MESH BY GEOSOLUTIONS
	SSD-1	FRENCH DRAIN W/O PIPE	**CRUSHED AGGREGATE**		
			2" INORGANIC MULCH	1/2" TO 1" DIA ROUNDED BLACK PEBBLES	LA PAZ BLACK PEBBLES BY BOURGET BROTHERS
			4" MIN. #8 BRIDGING COURSE	WASHED	
			24" MIN. #57 COMPACTED DRAINAGE COURSE	WASHED	
			GEOTEXTILE, NON-WOVEN POLYESTER, >50% RECYCLED CONTENT	FOLD OVER TO PROTECT DRAINAGE COURSE UNTIL PLANTING SOIL WORKS	GN 100 NEW GREEN GEOTEXTILES BY BTL
●	IR	ROOT ZONE INSPECTION RISER	**RISER & GRATE**		
			4" DIA. ROUND GRATE, DUCTILE IRON, ABS BODY	BLACK FINISH	EA
			6" DIA. DUAL WALL HDPE PIPE,>50% RECYCLED CONTENT, 4" REDUCER AT TOP	PERF., CORRUGATED EXTERIOR, SMOOTH INTERIOR, SOIL-TIGHT FITTINGS	FD-2220 MEDIUM DUTY FLOOR DRAIN BY ZURN
			METAL T-BAR POST WITH ZIP-TIES 6" O.C	BLACK FINISH	MEGA GREEN BY ADVANCED DRAINAGE SYSTEMS
	EROS-1	EROSION CONTROL MAT	**BIODEGRADABLE FIBER**		
			COIR FIBER WITH GALV. STAKES		GEOCOIR DEKOWE 700 BY BELTON INDUSTRIES

PLANS PREPARED BY:
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CITY OF LOS ANGELES — DEPARTMENT OF PUBLIC WORKS — BUREAU OF ENGINEERING

VERT. CONTROL: BM 12-04070, 1929 (NGVD29) - 1985 ADJUSTMENT
HORIZ. CONTROL: GPS, PID AE 1704, EPOCH 1991.35

SHEET TITLE: SOILS LEGEND AND SCHEDULE
PROJECT: SIXTH STREET PARK, ARTS AND RIVER CONNECTIVITY IMPROVEMENTS (PARC)
ADDRESS: SIXTH STREET OVER THE LOS ANGELES RIVER

GARY LEE MOORE, P.E., ENV SP — CITY ENGINEER
DESIGN GROUP
LANDSCAPE ARCHITECT: MARY MARGARET JONES LIC. NO. DATE: 07/11/2022
DESIGNED BY: MARY MARGARET JONES
DRAWN BY: MEGAN ESOPENKO
CHECKED BY: GAVIN MCMILLAN
APPROVED BY: MARY MARGARET JONES

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WORK ORDER NO. E700235D
FILE NO. --
DRAWING NO. L-050
SHEET 88 OF 295 SHEETS

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BID SET - NOT FOR CONSTRUCTION - 07/11/2022

VEGETATION

SYMBOL	ABBREVIATION	ELEMENT	MATERIAL ASSEMBLY SUMMARY - REFER DRAWINGS & SPECIFICATION FOR COMPLETE DESCRIPTION	NOTES	PRODUCTS & MANUFACTURERS #1
SEE SOFTSCAPE SPECIES SCHEDULE (L-065-066)	PLNT-1	**HERBACEOUS - LAWN REINFORCED**	**FINE TEXTURE GRASS**		
			SODDED	AMENITY LAWN SPECIES: REFER PLANT SCHEDULE	TIFWAY' BERMUDA OR EQUAL
			12" MIN. TOPSOIL	FREE DRAINING, COARSE SAND, LIMIT PHOSPHORUS	
			FIBER REINFORCING	MIXED INTO TOP 4" OF SOIL	STALOK FIBER BY STABILIZER SOLUTION
			6" MIN. AMENDED SUBGRADE	DECOMPACT, AMEND PH AND/OR SALINITY AS REQUIRED BY TESTS	
			PERMANENT IRRIGATION	REFER TO IRRIGATION DRAWINGS	
SEE SOFTSCAPE SPECIES SCHEDULE (L-065-066)	US -	**UPLAND SLOPES**	**PERENNIAL SHRUBS,GRASSES & GROUNDCOVERS**		
			POTTED PLANTS	DENSE, EMERGENT, FLOWERING, FOLIAGE SPECIES: REFER PLANT SCHEDULE	
			4" MIN. MULCH		
			BIODEGRADABLE EROSION CONTROL MAT	APPLY ON SIDE SLOPES	GEOCOIR DEKOWE 400 BY BELTON INDUSTRIES
			24" MIN. DEPTH, SOIL PROFILE TYPE 2 (48" MIN. WITHIN 10' OF TREES)	NEUTRAL PH, MODIFIED WITH ORGANIC MATTER & NUTRIENTS TO SUIT SPECIES	
			6" MIN. AMENDED SUBGRADE	DECOMPACT, AMEND PH AND/OR SALINITY AS REQUIRED BY TESTS	
			PERMANENT IRRIGATION	REFER TO IRRIGATION DRAWINGS	
SEE SOFTSCAPE SPECIES SCHEDULE (L-065-066)	LL -	**LOWLANDS**	**PERENNIAL GRASSES**		
			POTTED PLANTS	DENSE, EMERGENT, FLOWERING, FOLIAGE SPECIES: REFER PLANT SCHEDULE	
			4" MIN. MULCH		
			12" MIN. DEPTH, SOIL PROFILE TYPE 1 (48" MIN. WITHIN 10' OF TREES)	NEUTRAL PH, MODIFIED WITH ORGANIC MATTER & NUTRIENTS TO SUIT SPECIES	
			6" MIN. AMENDED SUBGRADE	DECOMPACT, AMEND PH AND/OR SALINITY AS REQUIRED BY TESTS	
			PERMANENT IRRIGATION	REFER TO IRRIGATION DRAWINGS	
SEE SOFTSCAPE SPECIES SCHEDULE (L-065-066)	SS -	**SHADY SLOPES**	**PERENNIAL SHRUBS & GROUNDCOVERS**		
			POTTED PLANTS	DENSE, EMERGENT, FLOWERING, FOLIAGE SPECIES: REFER PLANT SCHEDULE	
			4" MIN. MULCH		
			24" MIN. DEPTH, SOIL PROFILE TYPE 1 (48" MIN. WITHIN 10' OF TREES)	NEUTRAL PH, MODIFIED WITH ORGANIC MATTER & NUTRIENTS TO SUIT SPECIES	
			6" MIN. AMENDED SUBGRADE	DECOMPACT, AMEND PH AND/OR SALINITY AS REQUIRED BY TESTS	
			PERMANENT IRRIGATION	REFER TO IRRIGATION DRAWINGS	
SEE SOFTSCAPE SPECIES SCHEDULE (L-065-066)	RG -	**RAIN GARDENS**	**PERENNIAL SHRUBS, GRASSES & GROUNDCOVERS**		
			POTTED PLANTS	MOIST SOIL MARGINAL SPECIES: REFER PLANT SCHEDULE	
			2" MIN. GRAVEL MULCH	SPREAD AT BOTTOM, INLETS & OUTLETS	
			BIODEGRADABLE EROSION CONTROL MAT	APPLY ON SIDE SLOPES	GEOCOIR DEKOWE 400 BY BELTON INDUSTRIES
			24" MIN. DEPTH, SOIL PROFILE TYPE 3	NEUTRAL PH, BIO-INFILTRATION MIX, 5 TO 10"/HR	
			2" MIN. PEA GRAVEL BRIDGING LAYER		
			12" MIN. AGGREGATE DRAINAGE LAYER		
			PERMANENT IRRIGATION	REFER TO IRRIGATION DRAWINGS	
SEE SOFTSCAPE SPECIES SCHEDULE (L-065-066)	FG -	**FEATURE GARDENS**	**PERENNIALS, SHRUBS, GRASSES & GROUNDCOVERS**		
			POTTED PLANTS	DENSE, EMERGENT, FLOWERING, FOLIAGE SPECIES: REFER PLANT SCHEDULE	
			4" MIN. MULCH		
			24" MIN. DEPTH, SOIL PROFILE TYPE 1 (48" MIN. WITHIN 10' OF TREES)	NEUTRAL PH, MODIFIED WITH ORGANIC MATTER & NUTRIENTS TO SUIT SPECIES	
			6" MIN. AMENDED SUBGRADE	DECOMPACT, AMEND PH AND/OR SALINITY AS REQUIRED BY TESTS	
			PERMANENT IRRIGATION	REFER TO IRRIGATION DRAWINGS	

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VERT. CONTROL: BM 12-04070, 1929 (NGVD29) - 1985 ADJUSTMENT
HORIZ. CONTROL: GPS, PID AE 1704, EPOCH 1991.35

SHEET TITLE: UNDERSTORY LEGEND AND SCHEDULE

PROJECT: SIXTH STREET PARK, ARTS AND RIVER CONNECTIVITY IMPROVEMENTS (PARC)

ADDRESS: SIXTH STREET OVER THE LOS ANGELES RIVER

GARY LEE MOORE, P.E., ENV SP — CITY ENGINEER

DESIGN GROUP — DATE:

LANDSCAPE ARCHITECT: MARY MARGARET JONES — LIC. NO. — 07/11/2022

DESIGNED BY: MARY MARGARET JONES

DRAWN BY: MEGAN ESOPENKO

CHECKED BY: GAVIN MCMILLAN

APPROVED BY: MARY MARGARET JONES

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ENGINEERING — CITY OF LOS ANGELES

WORK ORDER NO. E700235D

FILE NO. --

DRAWING NO. L-060

TREE SPECIES

SYMBOL &/OR ABBREVIATION	BOTANIC NAME	COMMON NAME	WATER USE	ANSI Z60.1 GROUP	PRIMARY MIN. PLANT SIZE @ PLANTING*	UNIT	ACCEPTABLE METHOD* & MIN. SIZE @ PLANTING*	UNIT	NOTES	APPROX. SPACING	APPROX. QUANTITY
AnC	*Angophora costata*	ROSE GUM	L	SHADE & FLOWERING TREE	2	CAL"	24	BOX"	SINGLE STEM CLEAR TO 6'	SEE PLAN	37
ArM	*Arbutus 'Marina'*	MARINA STRAWBERRY TREE	L	SHADE & FLOWERING TREE	2	CAL"	24	BOX"	MULTI STEM	SEE PLAN	5
ChL	*Chilopsis linearis*	DESERT WILLOW	VL	SHADE & FLOWERING TREE	2	CAL"	24	BOX"	MULTI STEM	SEE PLAN	15
CoC	*Corymbia citriodora*	LEMON SCENTED GUM	L	SHADE & FLOWERING TREE	2	CAL"	24	BOX"	SINGLE STEM CLEAR TO 6'	SEE PLAN	15
CoP	*Corymbia papuana*	GHOST GUM	L	SHADE & FLOWERING TREE	2	CAL"	24	BOX"	SINGLE STEM CLEAR TO 6'	SEE PLAN	23
EuC	*Eucalyptus cladocalyx*	SUGAR GUM	L	SHADE & FLOWERING TREE	2	CAL"	24	BOX"	SINGLE STEM CLEAR TO 6'	SEE PLAN	10
EuT	*Eucalyptus torquata*	CORAL GUM	L	SHADE & FLOWERING TREE	2	CAL"	24	BOX"	NATURAL FORM	SEE PLAN	14
PaX	Parkinsonia X 'Desert Museum'	PALO VERDE 'DESERT MUSEUM'	VL	SHADE & FLOWERING TREE	2	CAL"	24	BOX"	NATURAL FORM	SEE PLAN	5
FiR	*Ficus rubiginosa*	RUSTY LEAF FIG	M	SHADE & FLOWERING TREE	3	CAL"	36	BOX"	SINGLE STEM CLEAR TO 6'	SEE PLAN	2
JaM	*Jacaranda mimosifolia*	JACARANDA	M	SHADE & FLOWERING TREE	3	CAL"	36	BOX"	SINGLE STEM CLEAR TO 6'	SEE PLAN	34
PiT	*Pinus torreyana*	TORREY PINE	L	CONIFEROUS EVERGREEN	3	CAL"	36	BOX"	LOW-BRANCHING	SEE PLAN	12
QuA	*Quercus agrifolia*	COAST LIVE OAK	VL	SHADE & FLOWERING TREE	3	CAL"	36	BOX"	NATURAL FORM	SEE PLAN	4
QuB	*Quercus buckleyi*	TEXAS RED OAK	VL	SHADE & FLOWERING TREE	3	CAL"	36	BOX"	LOW-BRANCHING	SEE PLAN	30
LaN	*Laurus nobilis*	BAY LAUREL	L	SHADE & FLOWERING TREE	3	CAL"	36	BOX"	SINGLE STEM CLEAR TO 6'	SEE PLAN	12
TiT	*Tipuana tipu*	TIPU	L	SHADE & FLOWERING TREE	3	CAL"	36	BOX"	SINGLE STEM CLEAR TO 6'	SEE PLAN	84

SOFTSCAPE SPECIES

SYMBOL	ABBREVIATION	BOTANIC NAME	COMMON NAME	WATER USE	SIZE	UNIT	APPROX. SPACING " OC.	SPACING	SF AREA	APPROX. QUANTITY
	FG 1	**FEATURE GARDEN 1**								
	AgVR	*Agave victoriae-reginae*	QUEEN VICTORIA AGAVE	L	5	CTNS#	24	as shown		56
	AgB	*Agave bracteosa*	SPIDER AGAVE	L	5	CTNS#	36	as shown		18
	AgA	*Agave attenuata*	FOXTAIL AGAVE	L	5	CTNS#	60	as shown		13
	AgBF	*Agave 'Blue Flame'*	BLUE FLAME AGAVE	L	5	CTNS#	60	as shown		9
	AgV	*Agave desmettiana 'Variegata'*	VAREGATA	L	5	CTNS#	48	as shown		8
	YuF	*Yucca filamentosa*	ADAMS NEEDLE	VL	15	CTNS#	48	as shown		21
	FG 2	**FEATURE GARDEN 2**								
	RuA	*Rumohra adiantiformis*	LEATHER FERN	M	5	CTNS#	36	as shown		72
	PoM	*Polystichum munitum*	WESTERN SWORD FERN	M	5	CTNS#	36	as shown		65
	WoF	*Woodwardia fimbriata*	GIANT CHAIN FERN	M	5	CTNS#	60	as shown		20
	MiS	*Microlepia strigosa*	LACE FERN	M	5	CTNS#	18	as shown		92
	DiCC	*Dianella caerulea 'Cassa Blue'*	FLAX LILY	M	1	CTNS#	18	TRI. SPACING	535.05	268
	FG 3	**FEATURE GARDEN 3**								
	AcMM	*Achillea millefolium 'Moonshine'*	MOONSHINE YARROW	L	1	CTNS#	18	as shown		83
	MuR	*Muhlenbergia rigens*	DEER GRASS	L	1	CTNS#	36	as shown		111
	ScM	*Senecio mandraliscae*	BLUE CHALK	L	1	CTNS#	18	TRI. SPACING	1850.10	925
	HeP	*Hesperaloe parviflora*	RED YUCCA	VL	1	CTNS#	48	as shown	.	134
	SaL	*Salvia leucantha 'Santa Barbara'*	SANTA BARBARA SAGE	L	1	CTNS#	36	as shown		138
	GaF	*Galvezia 'Firecracker'*	FIRECRACKER SNAPDRAGON	VL	1	CTNS#	36	as shown		189
	LiG	*Liriope gigantea*	GIANT LILY TURF	M	1	CTNS#	24	as shown		722
	BeR	*Berberis repens*	CREEPING BARBERRY	L	1	CTNS#	24	as shown		814
	RG 1	**RAIN GARDEN 1**								
	JuPE	*Juncus patens 'Elk Blue'*	ELK BLUE	L	1	CTNS#	18	as shown		61
	LoLB	*Lomandra longifolia 'Breeze'*	DWARF MAT RUSH	L	1	CTNS#	36	as shown		30
	RG 2	**RAIN GARDEN 2**								
	AcM	*Achillea millefolium*	YARROW	L	1	CTNS#	18	as shown		378
	JuPE	*Juncus patens 'Elk Blue'*	ELK BLUE	L	1	CTNS#	18	as shown		185

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VERT. CONTROL: BM 12-04070, 1929 (NGVD29) - 1985 ADJUSTMENT
HORIZ. CONTROL: GPS, PID AE 1704, EPOCH 1991.35

SHEET TITLE: TREE AND UNDERSTORY SPECIES LEGEND AND SCHEDULE

PROJECT: SIXTH STREET PARK, ARTS AND RIVER CONNECTIVITY IMPROVEMENTS (PARC)

ADDRESS: SIXTH STREET OVER THE LOS ANGELES RIVER

WORK ORDER NO. E700235D
FILE NO. --
DRAWING NO. L-065
SHEET 90 OF 295 SHEETS

GARY LEE MOORE, P.E., ENV SP — CITY ENGINEER
DESIGN GROUP
LANDSCAPE ARCHITECT: MARY MARGARET JONES LIC. NO.
DATE: 07/11/2022
DESIGNED BY: MARY MARGARET JONES
DRAWN BY: MEGAN ESOPENKO
CHECKED BY: GAVIN MCMILLAN
APPROVED BY: MARY MARGARET JONES

THIS PLAN WAS ELECTRONICALLY SIGNED AND STAMPED.

NO. | REVISIONS: | DATE: | BY:

INDEX NO.

BUILDING NO.

ENGINEERING
CITY OF LOS ANGELES

2022-07-05 8:57:42 PM - C:\USERS\MESOPENKO\ONEDRIVE - HARGREAVES\SSV 1601 - SIXTH STREET VIADUCT\300_CREATE\310_HA WORKING FILES\06_TECHNICAL\06_100-CD\50_SHEETS\L-060 TREES AND UNDERSTORY LEGEND AND SCHEDULE.DWG - MEGAN ESOPENKO

BID SET - NOT FOR CONSTRUCTION - 07/11/2022

SOFTSCAPE SPECIES										
SYMBOL	ABBREVIATION	BOTANIC NAME	COMMON NAME	WATER USE	SIZE	UNIT	APPROX. SPACING " OC.	SPACING	SF AREA	APPROX. QUANTITY
	RG 3	**RAIN GARDEN 3**								
	AcMP	*Achillea millefolium 'Paprika'*	PAPRIKA YARROW	M	1	CTNS#	18	as shown		74
	CaD	*Carex divulsa*	EUROPEAN GREY SEDGE	L	1	CTNS#	24	TRI. SPACING	1920.45	549
	JuPE	*Juncus patens 'Elk Blue'*	ELK BLUE	L	1	CTNS#	18	as shown		127
	US 1	**UPLAND SLOPE 1**								
	LoHT	*Lomandra hystrix 'Tropicbelle'*	TROPIC BELLE MAT RUSH	M	1	CTNS#	36	TRI. SPACING	10902.09	1454
	AgBF	*Agave 'Blue Flame'*	BLUE FLAME AGAVE	L	1	CTNS#	36	as shown		48
	US 2	**UPLAND SLOPE 1**								
	LoHT	*Lomandra hystrix 'Tropicbelle'*	TROPIC BELLE MAT RUSH	M	1	CTNS#	36	TRI. SPACING	2752.85	367
	US 3	**UPLAND SLOPE 2**								
	BaPP	*Baccharis pilularis 'Pigeon Point'*	DWARF COYOTE BRUSH	L	1	CTNS#	60	TRI. SPACING	10965.48	487
	HeP	*Hesperaloe parviflora*	RED YUCCA	VL	1	CTNS#	36	TRI. SPACING	1080.40	144
	BeR	*Berberis repens*	CREEPING BARBERRY	L	1	CTNS#	24	TRI. SPACING	5207.99	1488
	CaG	*Carissa macrocarpa 'Green Carpet'*	GREEN CARPET	L	1	CTNS#	48	TRI. SPACING	4675.28	334
	TaL	*Tagetes lemmonii*	MEXICAN MARIGOLD	L	1	CTNS#	48	TRI. SPACING	1578.78	113
	SS 1	**SHADY SLOPE 1**								
	DiCC	*Dianella caerulea 'Cassa Blue'*	FLAX LILY	M	1	CTNS#	18	TRI. SPACING	763.05	382
	CoB	*Cordyline banksii 'Sprilecpink'*	ELECTRIC PINK CORDYLINE	M	1	CTNS#	36	TRI. SPACING	865.31	115
	LiG	*Liriope gigantea*	GIANT LILY TURF	M	1	CTNS#	24	TRI. SPACING	3213.59	918
	CaD	*Carex divulsa*	EUROPEAN GREY SEDGE	L	1	CTNS#	24	TRI. SPACING	3010.55	860
	LL1	**LOW LAND 1**								
	AgDV	*Agave desmettiana 'Variegata'*	VARIEGATA	L	5	CTNS#	48	TRI. SPACING	3865.21	276
	MaR	*Mahonia repens*	CREEPING BARBERRY	VL	1	CTNS#	36	TRI. SPACING	5842.47	779
	CaD	*Carex divulsa*	EUROPEAN GREY SEDGE	L	1	CTNS#	24	TRI. SPACING	7683.25	2195
	FuFM	*Furcrea foetida 'Mediopicta'*	MAURITIUS HEMP	L	5	CTNS#	48	TRI. SPACING	3213.76	230
	LoHT	*Lomandra hystrix 'Tropicbelle'*	TROPIC BELLE MAT RUSH	M	1	CTNS#	36	TRI. SPACING	11669.88	1556
	AgA	*Agave attenuata*	FOXTAIL AGAVE	L	5	CTNS#	60	TRI. SPACING	5517.73	245

PLANS PREPARED BY:

TETRA TECH, INC.
707 WILSHIRE BLVD, 23RD FLR.
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PHONE: (213) 239-8866

HargreavesJones
Hargreaves Jones Landscape Architecture

CITY OF LOS ANGELES — DEPARTMENT OF PUBLIC WORKS — BUREAU OF ENGINEERING

VERT. CONTROL: BM 12-04070, 1929 (NGVD29) - 1985 ADJUSTMENT
HORIZ. CONTROL: GPS, PID AE 1704, EPOCH 1991.35

SHEET TITLE: UNDERSTORY SPECIES LEGEND AND SCHEDULE

PROJECT: SIXTH STREET PARK, ARTS AND RIVER CONNECTIVITY IMPROVEMENTS (PARC)

ADDRESS: SIXTH STREET OVER THE LOS ANGELES RIVER

GARY LEE MOORE, P.E., ENV SP — CITY ENGINEER
DESIGN GROUP
LANDSCAPE ARCHITECT: MARY MARGARET JONES — LIC. NO. — DATE: 07/11/2022
DESIGNED BY: MARY MARGARET JONES
DRAWN BY: MEGAN ESOPENKO
CHECKED BY: GAVIN MCMILLAN
APPROVED BY: MARY MARGARET JONES

THIS PLAN WAS ELECTRONICALLY SIGNED AND STAMPED.

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ENGINEERING — CITY OF LOS ANGELES

WORK ORDER NO. E700235D
FILE NO. --
DRAWING NO. L-066
SHEET 91 OF 295 SHEETS

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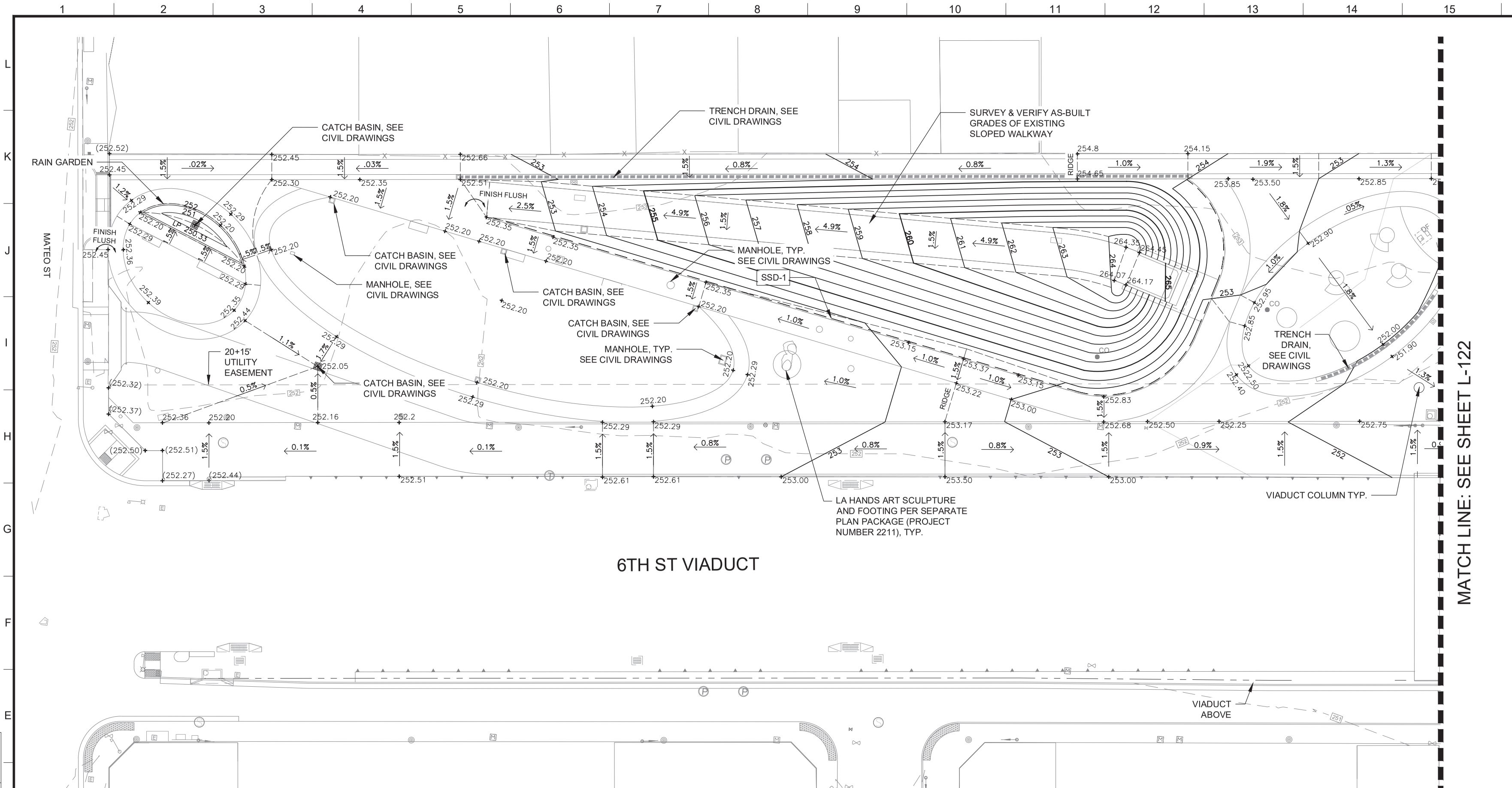

GRADING PLAN LEGEND

- 5' OFFSET OF LIMIT OF WORK
- 100 — EXISTING CONTOUR LINE
- 100 — PROPOSED CONTOUR LINE
- (XXXX.XX) — EXISTING SPOT ELEVATION
- HP XXXX.XX — HIGH POINT - SPOT ELEVATION
- LP XXXX.XX — LOW POINT - SPOT ELEVATION
- XXXX.XX — SPOT ELEVATION
- 2.0% — SLOPE
- IE — INVERT ELEVATION
- GRADE BREAK (GB)

SHEET NOTES

1. SEE SHEET L-001 FOR GENERAL LANDSCAPE NOTES, ABBREVIATIONS & SYMBOLS.
2. SEE DRAWINGS FOR THE CROSSPITCH. ALL PAVED PATHWAYS TO HAVE A CROSS SLOPE OF AT LEAST 1:100 (1%). CROSS SLOPES SHALL NOT EXCEED 1:50 (2%).
3. VERIFY EXISTING CURB ELEVATIONS AND ADJUST SIDEWALK CROSS SLOPES ACCORDINGLY
4. SEE CIVIL DRAWINGS C-403 - C-411 FOR STORM DRAIN PLANS.
5. FIELD VERIFY EXISTING ELEVATIONS ALONG ABUTTING PROPERTY BOUNDARIES

PLANS PREPARED BY:
TETRA TECH, INC.
707 WILSHIRE BLVD, 23RD FLR.
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HargreavesJones
Hargreaves Jones Landscape Architecture

CITY OF LOS ANGELES — DEPARTMENT OF PUBLIC WORKS — BUREAU OF ENGINEERING

VERT. CONTROL: BM 12-04070, 1929 (NGVD29) - 1985 ADJUSTMENT
HORIZ. CONTROL: GPS, PID AE 1704, EPOCH 1991.35

SHEET TITLE: GRADING PLAN SHEET 1
PROJECT: SIXTH STREET PARK, ARTS AND RIVER CONNECTIVITY IMPROVEMENTS (PARC)
ADDRESS: SIXTH STREET OVER THE LOS ANGELES RIVER

GARY LEE MOORE, P.E., ENV SP — CITY ENGINEER
DESIGN GROUP — DATE:
LANDSCAPE ARCHITECT: MARY MARGARET JONES — LIC. NO. — 07/11/2022
DESIGNED BY: MARY MARGARET JONES
DRAWN BY: MEGAN ESOPENKO
CHECKED BY: GAVIN MCMILLAN
APPROVED BY: MARY MARGARET JONES

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INDEX NO.
BUILDING NO.

WORK ORDER NO. E700235D
FILE NO. --
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ENGINEERING — CITY OF LOS ANGELES

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GRADING PLAN LEGEND

— — —	5' OFFSET OF LIMIT OF WORK
100	EXISTING CONTOUR LINE
100	PROPOSED CONTOUR LINE
(xxxx.xx)	EXISTING SPOT ELEVATION
HP xxxx.xx	HIGH POINT - SPOT ELEVATION
LP xxxx.xx	LOW POINT - SPOT ELEVATION
xxxx.xx	SPOT ELEVATION
2.0%	SLOPE
IE	INVERT ELEVATION
- - - -	GRADE BREAK (GB)

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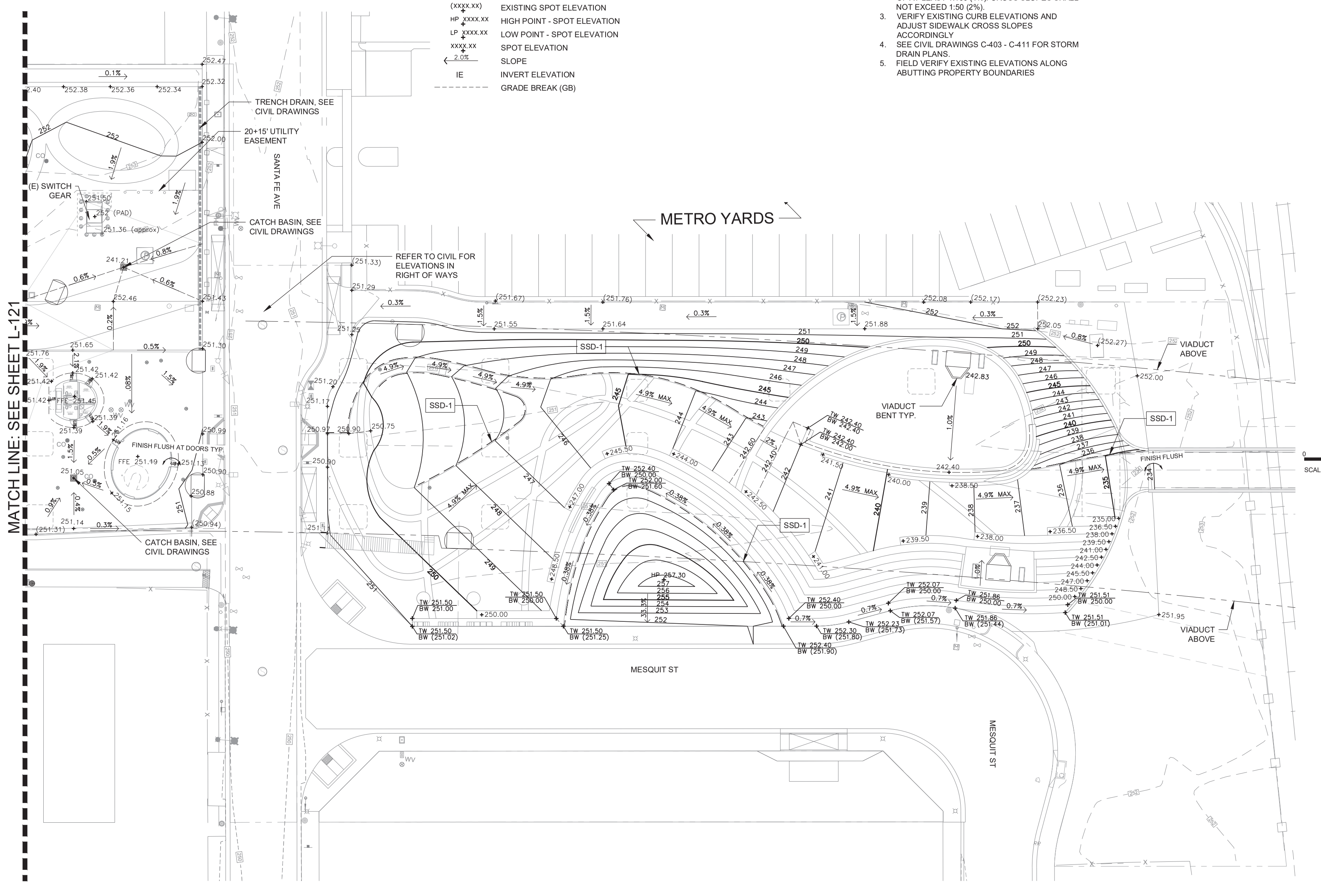

PLANS PREPARED BY:

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LOS ANGELES, CA 90017
PHONE: (213) 239-8866

HargreavesJones
Hargreaves Jones Landscape Architecture

CITY OF LOS ANGELES — DEPARTMENT OF PUBLIC WORKS — BUREAU OF ENGINEERING

VERT. CONTROL: BM 12-04070, 1929 (NGVD29) - 1985 ADJUSTMENT
HORIZ. CONTROL: GPS, PID AE 1704, EPOCH 1991.35

SHEET TITLE: GRADING PLAN SHEET 2
PROJECT: SIXTH STREET PARK, ARTS AND RIVER CONNECTIVITY IMPROVEMENTS (PARC)
ADDRESS: SIXTH STREET OVER THE LOS ANGELES RIVER

GARY LEE MOORE, P.E., ENV SP — CITY ENGINEER
DESIGN GROUP — DATE:
LANDSCAPE ARCHITECT: MARY MARGARET JONES — LIC. NO. — 07/11/2022
DESIGNED BY: MARY MARGARET JONES
DRAWN BY: MEGAN ESOPENKO
CHECKED BY: GAVIN MCMILLAN
APPROVED BY: MARY MARGARET JONES

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WORK ORDER NO. E700235D
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DRAWING NO. L-122
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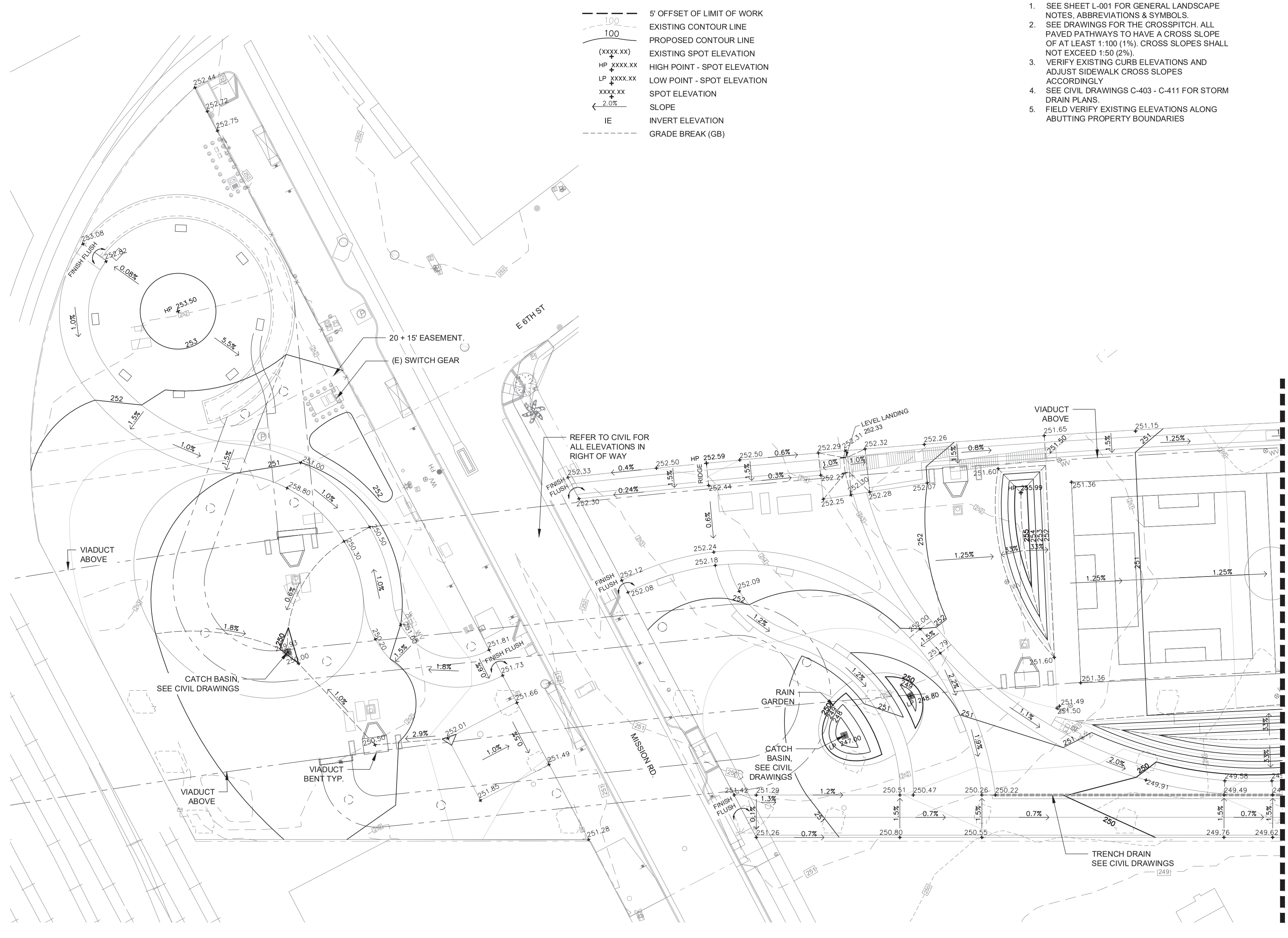

GRADING PLAN LEGEND

— — —	5' OFFSET OF LIMIT OF WORK
100	EXISTING CONTOUR LINE
100	PROPOSED CONTOUR LINE
(xxxx.xx)	EXISTING SPOT ELEVATION
HP xxxx.xx	HIGH POINT - SPOT ELEVATION
LP xxxx.xx	LOW POINT - SPOT ELEVATION
xxxx.xx	SPOT ELEVATION
2.0%	SLOPE
IE	INVERT ELEVATION
- - -	GRADE BREAK (GB)

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PLANS PREPARED BY:

TETRA TECH, INC.
707 WILSHIRE BLVD, 23RD FLR.
LOS ANGELES, CA 90017
PHONE: (213) 239-8866

HargreavesJones
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CITY OF LOS ANGELES — DEPARTMENT OF PUBLIC WORKS — BUREAU OF ENGINEERING

VERT. CONTROL: BM 12-04070, 1929 (NGVD29) - 1985 ADJUSTMENT
HORIZ. CONTROL: GPS, PID AE 1704, EPOCH 1991.35

SHEET TITLE: GRADING PLAN SHEET 3

PROJECT: SIXTH STREET PARK, ARTS AND RIVER CONNECTIVITY IMPROVEMENTS (PARC)

ADDRESS: SIXTH STREET OVER THE LOS ANGELES RIVER

GARY LEE MOORE, P.E., ENV SP — CITY ENGINEER — DATE:
DESIGN GROUP
LANDSCAPE ARCHITECT: MARY MARGARET JONES — LIC. NO. — 07/11/2022
DESIGNED BY: MARY MARGARET JONES
DRAWN BY: MEGAN ESOPENKO
CHECKED BY: GAVIN MCMILLAN
APPROVED BY: MARY MARGARET JONES

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WORK ORDER NO. E700235D
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BID SET - NOT FOR CONSTRUCTION - 07/11/2022

GRADING PLAN LEGEND

— — —	5' OFFSET OF LIMIT OF WORK
100	EXISTING CONTOUR LINE
100	PROPOSED CONTOUR LINE
(XXXX.XX)	EXISTING SPOT ELEVATION
HP XXXX.XX	HIGH POINT - SPOT ELEVATION
LP XXXX.XX	LOW POINT - SPOT ELEVATION
XXXX.XX	SPOT ELEVATION
2.0%	SLOPE
IE	INVERT ELEVATION
- - - -	GRADE BREAK (GB)

SHEET NOTES

1. SEE SHEET L-001 FOR GENERAL LANDSCAPE NOTES, ABBREVIATIONS & SYMBOLS.
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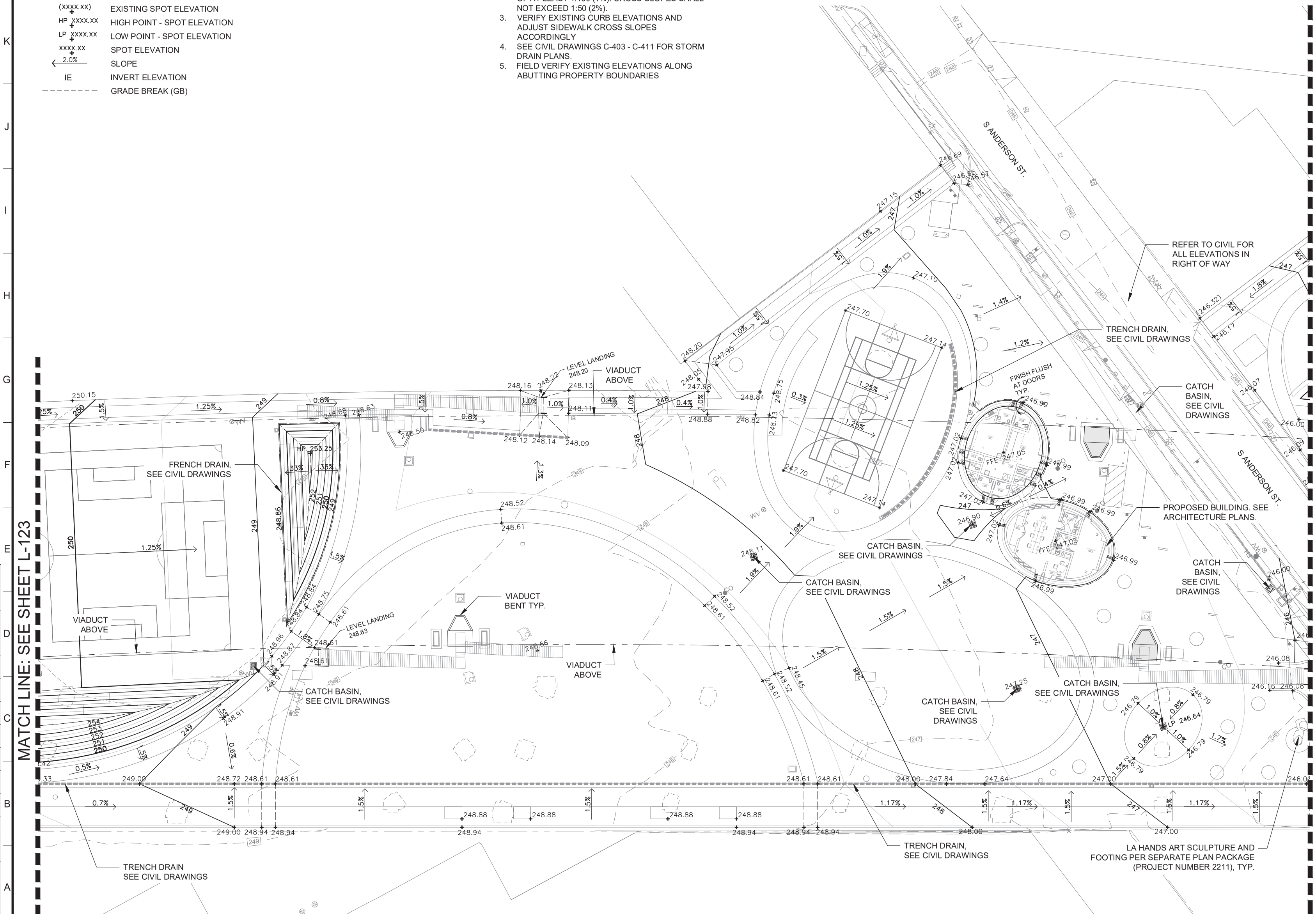

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Hargreaves Jones Landscape Architecture

CITY OF LOS ANGELES — DEPARTMENT OF PUBLIC WORKS — BUREAU OF ENGINEERING

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HORIZ. CONTROL: GPS, PID AE 1704, EPOCH 1991.35

SHEET TITLE: GRADING PLAN SHEET 4

PROJECT: SIXTH STREET PARK, ARTS AND RIVER CONNECTIVITY IMPROVEMENTS (PARC)

ADDRESS: SIXTH STREET OVER THE LOS ANGELES RIVER

GARY LEE MOORE, P.E., ENV SP — CITY ENGINEER

DESIGN GROUP — DATE:
LANDSCAPE ARCHITECT: MARY MARGARET JONES — LIC. NO. — 07/11/2022
DESIGNED BY: MARY MARGARET JONES
DRAWN BY: MEGAN ESOPENKO
CHECKED BY: GAVIN MCMILLAN
APPROVED BY: MARY MARGARET JONES

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INDEX NO.

BUILDING NO.

WORK ORDER NO. E700235D
FILE NO. --
DRAWING NO. L-124
SHEET 95 OF 295 SHEETS

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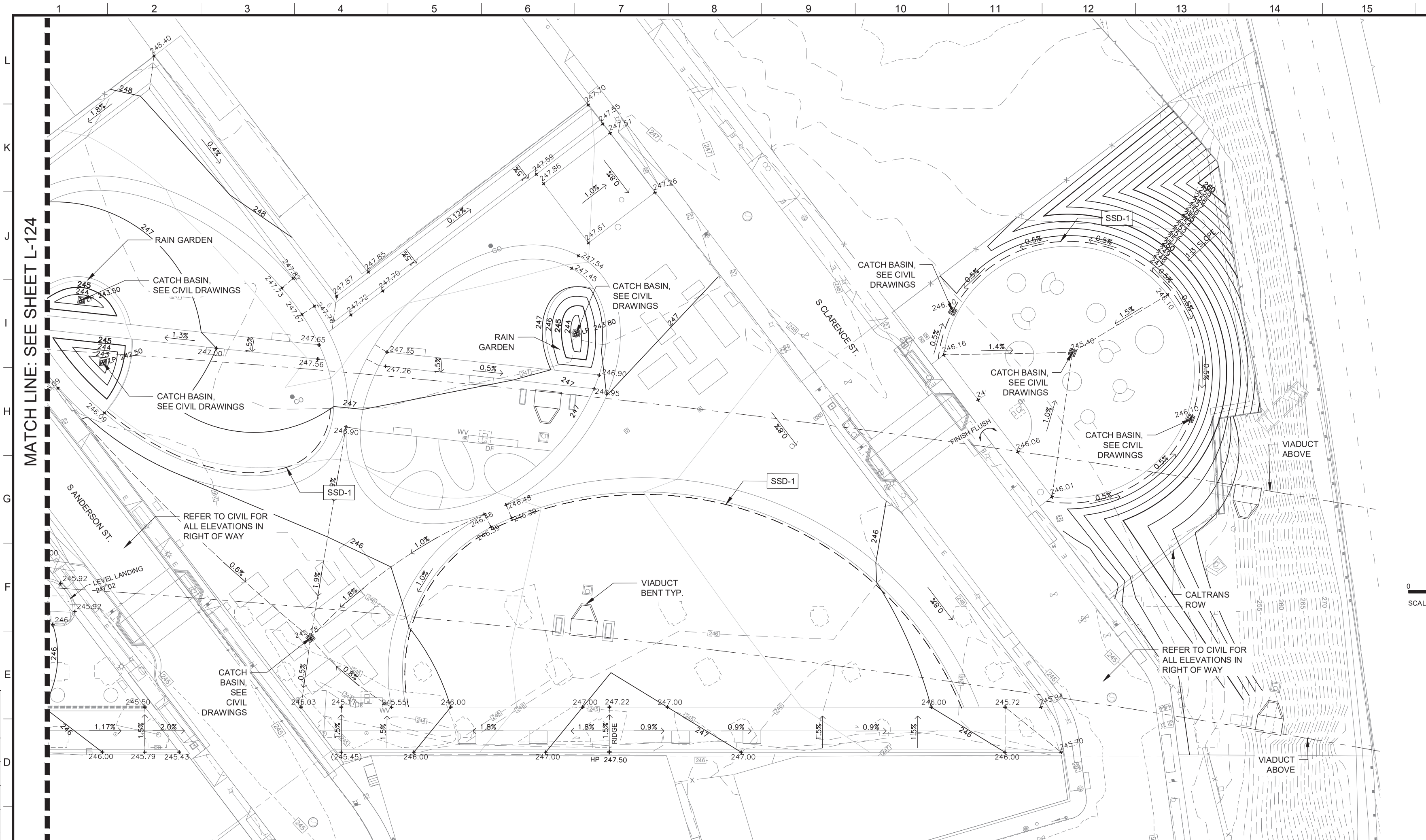

GRADING PLAN LEGEND

- 5' OFFSET OF LIMIT OF WORK
- 100 EXISTING CONTOUR LINE
- 100 PROPOSED CONTOUR LINE
- (XXXX.XX) EXISTING SPOT ELEVATION
- HP XXXX.XX HIGH POINT - SPOT ELEVATION
- LP XXXX.XX LOW POINT - SPOT ELEVATION
- XXXX.XX SPOT ELEVATION
- 2.0% SLOPE
- IE INVERT ELEVATION
- GRADE BREAK (GB)

SHEET NOTES

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5. FIELD VERIFY EXISTING ELEVATIONS ALONG ABUTTING PROPERTY BOUNDARIES

PLANS PREPARED BY:
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Hargreaves Jones Landscape Architecture

CITY OF LOS ANGELES — DEPARTMENT OF PUBLIC WORKS — BUREAU OF ENGINEERING

VERT. CONTROL: BM 12-04070, 1929 (NGVD29) - 1985 ADJUSTMENT
HORIZ. CONTROL: GPS, PID AE 1704, EPOCH 1991.35

SHEET TITLE: GRADING PLAN SHEET 5
PROJECT: SIXTH STREET PARK, ARTS AND RIVER CONNECTIVITY IMPROVEMENTS (PARC)
ADDRESS: SIXTH STREET OVER THE LOS ANGELES RIVER

GARY LEE MOORE, P.E., ENV SP — CITY ENGINEER — DATE:
DESIGN GROUP
LANDSCAPE ARCHITECT: MARY MARGARET JONES LIC. NO. 07/11/2022
DESIGNED BY: MARY MARGARET JONES
DRAWN BY: MEGAN ESOPENKO
CHECKED BY: GAVIN MCMILLAN
APPROVED BY: MARY MARGARET JONES

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NO.	REVISIONS	DATE	BY

INDEX NO.
BUILDING NO.

WORK ORDER NO. E700235D
FILE NO. --
DRAWING NO. L-125
SHEET 96 OF 295 SHEETS

REVISION DATES (DESIGN STAGE ONLY)

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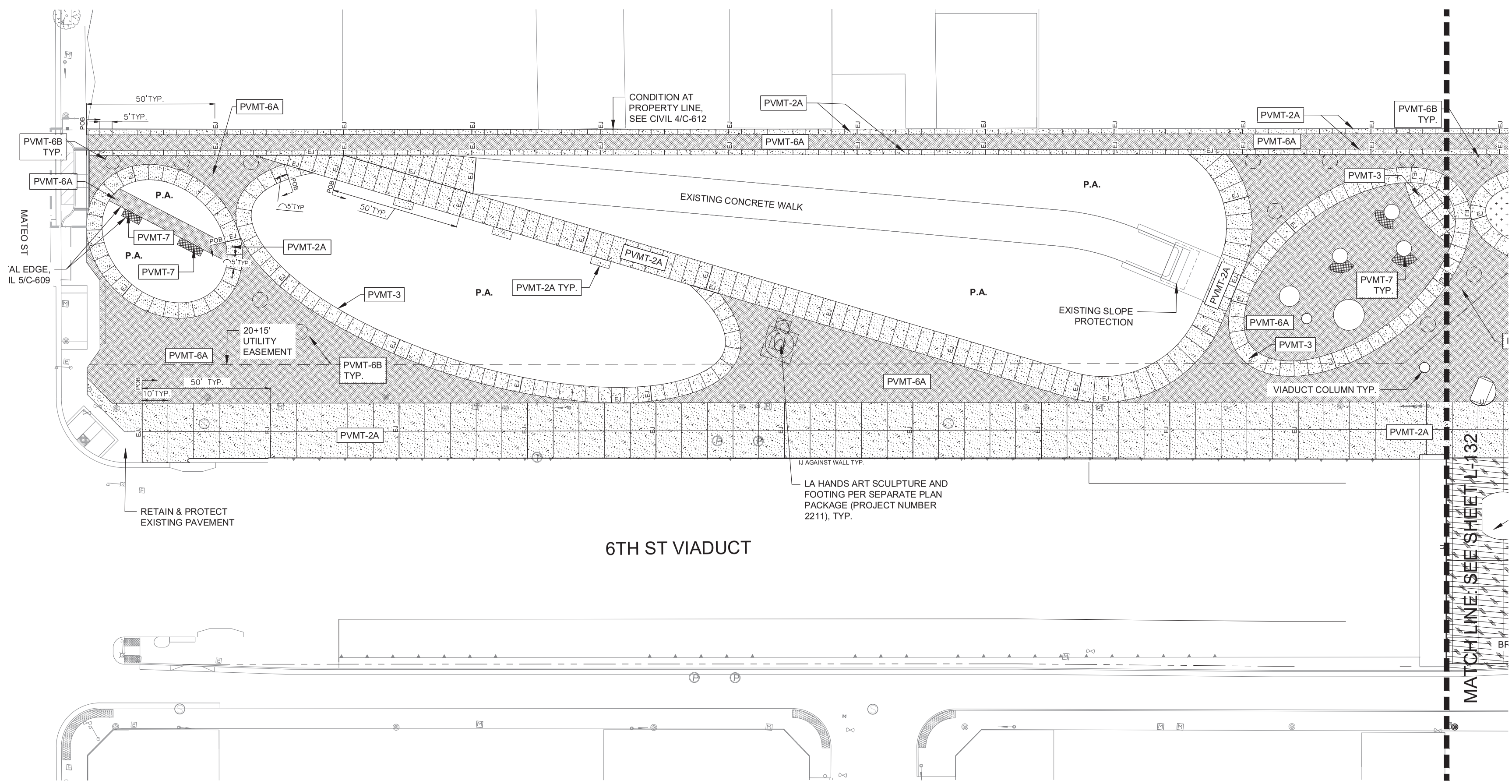

MATERIALS PLAN LEGEND

- PVMT 1 - STONE UNIT PAVERS
- PVMT 2 A/B - CIP CONCRETE
- PVMT 3 - CIP CONCRETE
- PVMT 4 - COATED CONCRETE
- PVMT 5 - CONCRETE UNIT PAVERS
- PVMT 6 A/B - CRUSHED STONE
- PVMT 7 - CRUSHED STONE ADMIXTURE
- PVMT 8 - TUNNEL RESURFACING
- PVMT 9 A/B - COATED ASPHALT
- PVMT 10 A/B - SAFETY SURFACING
- PVMT 11 - SYNTHETIC GRASS

CONTROL JOINT
EJ EXPANSION JOINT
IJ ISOLATION JOINT

SHEET NOTES

1. SEE SHEET L-001 FOR GENERAL LANDSCAPE NOTES, ABBREVIATIONS & SYMBOLS.
2. SEE SHEET L-030 FOR MATERIALS LEGEND AND SCHEDULES.
3. SEE STRUCTURAL DRAWINGS FOR WALLS AND FOOTING.
4. SEE ENLARGEMENT L-401 FOR WEST PARK - DOG PARK & FITNESS LAYOUT
5. SEE CIVIL DRAWINGS 7/C-600 FOR ALL JOINT DETAILS
6. SEE CIVIL DRAWINGS C-609 FOR ALL PAVEMENT DETAILS
7. SEE CIVIL DRAWINGS C-200 - C-204 FOR SITE HORIZONTAL CONTROL PLANS AND PAVEMENT DETAILS.

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PLANS PREPARED BY:
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PHONE: (213) 239-8866

HargreavesJones
Hargreaves Jones Landscape Architecture

CITY OF LOS ANGELES
DEPARTMENT OF PUBLIC WORKS
BUREAU OF ENGINEERING

VERT. CONTROL: BM 12-04070, 1929 (NGVD29) - 1985 ADJUSTMENT
HORIZ. CONTROL: GPS, PID AE 1704, EPOCH 1991.35

SHEET TITLE: HARDSCAPE PLAN SHEET 1
PROJECT: SIXTH STREET PARK, ARTS AND RIVER CONNECTIVITY IMPROVEMENTS (PARC)
ADDRESS: SIXTH STREET OVER THE LOS ANGELES RIVER

GARY LEE MOORE, P.E., ENV SP — CITY ENGINEER
DESIGN GROUP — DATE:
LANDSCAPE ARCHITECT: MARY MARGARET JONES — LIC. NO. — 07/11/2022
DESIGNED BY: MARY MARGARET JONES
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SHEET 97 OF 295 SHEETS

ENGINEERING — CITY OF LOS ANGELES

2022-07-05 8:58:39 PM - C:\USERS\MESOPENKO\ONEDRIVE - HARGREAVES\SSV 1601 - SIXTH STREET VIADUCT\300_CREATE\310_HA WORKING FILES\06_TECHNICAL\06_100-CD\50_SHEETS\L-130-135 HARDSCAPE PLAN.DWG - MEGAN ESOPENKO

Sheet Version 3.0

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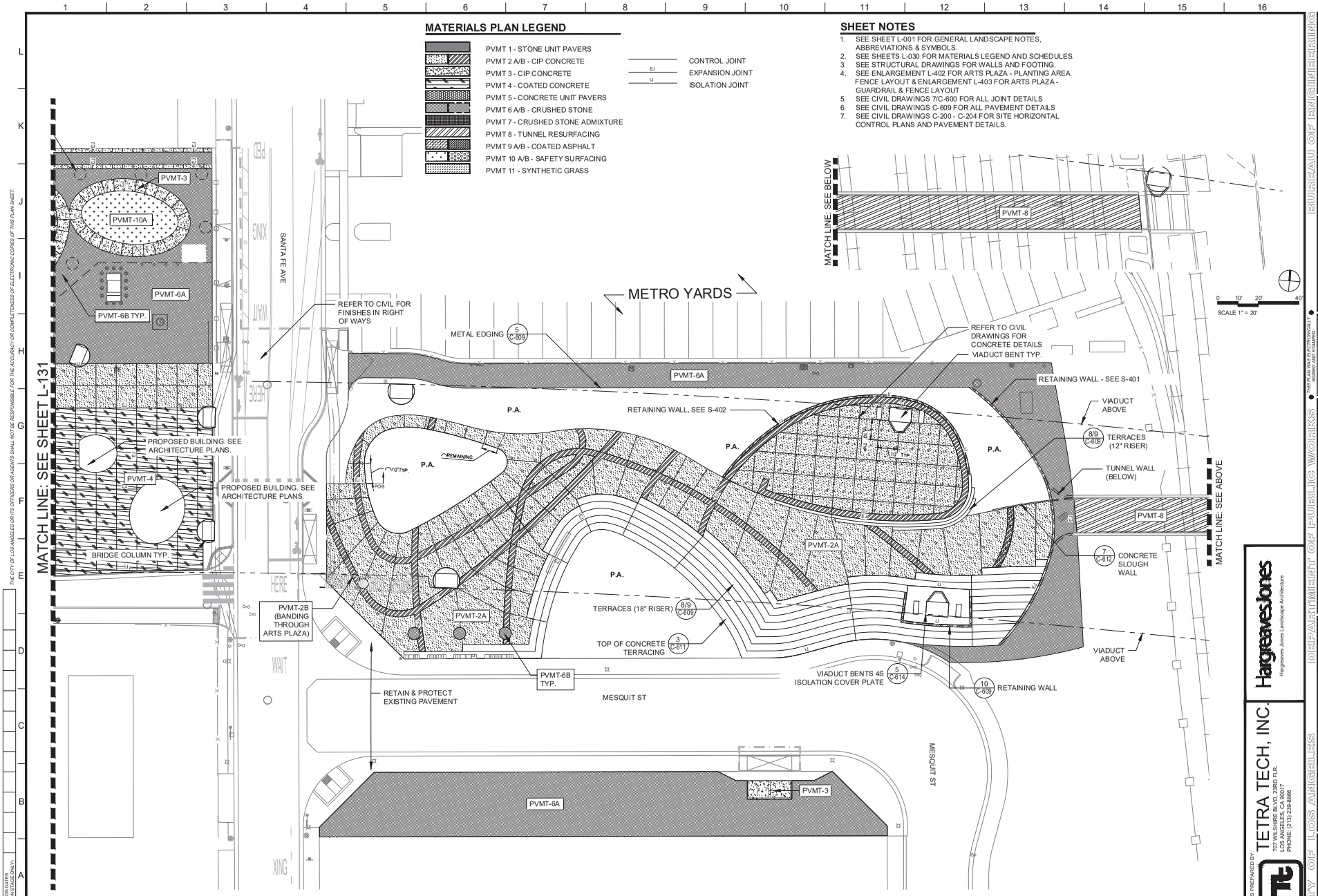

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CITY OF LOS ANGELES DEPARTMENT OF PUBLIC WORKS BUREAU OF ENGINEERING

ENGINEERING

PLANS PREPARED BY:
TETRA TECH, INC.
707 WILSHIRE BLVD. 23RD FLR.
LOS ANGELES, CA 90017
PHONE: (213) 239-8866

Hargreaves Jones
Hargreaves Jones Landscape Architecture

GARY LEE MOORE, P.E., ENV SP — CITY ENGINEER — DATE
LANDSCAPE ARCHITECT: MARY MARGARET JONES — LIC. NO. — 07/11/2022
DESIGNED BY: MARY MARGARET JONES
DRAWN BY: MEGAN ESOPENKO
CHECKED BY: GAVIN MCMILLAN
APPROVED BY: MARY MARGARET JONES

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NO. | REVISIONS | DATE | BY

BUILDING NO.

INDEX NO.

SHEET TITLE: HARDSCAPE PLAN SHEET 2
PROJECT: SIXTH STREET PARK, ARTS AND RIVER CONNECTIVITY IMPROVEMENTS (PARC)
ADDRESS: SIXTH STREET OVER THE LOS ANGELES RIVER

WORK ORDER NO. E700235D
FILE NO. –
DRAWING NO. L-132
SHEET 98 OF 295 SHEETS

2022-07-05 8:33:48 PM - C:\USERS\MESOPENKO\ONEDRIVE - HARGREAVESSJV 1601 - SIXTH STREET VIADUCT\300_CREATE\10_PA WORKING FILES\05_TECHNICAL\06_100-CD\50_SHEETS\L-130-135 HARDSCAPE PLAN.DWG - MEGAN ESOPENKO

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DIMENSIONS (DESIGN STAGE ONLY)

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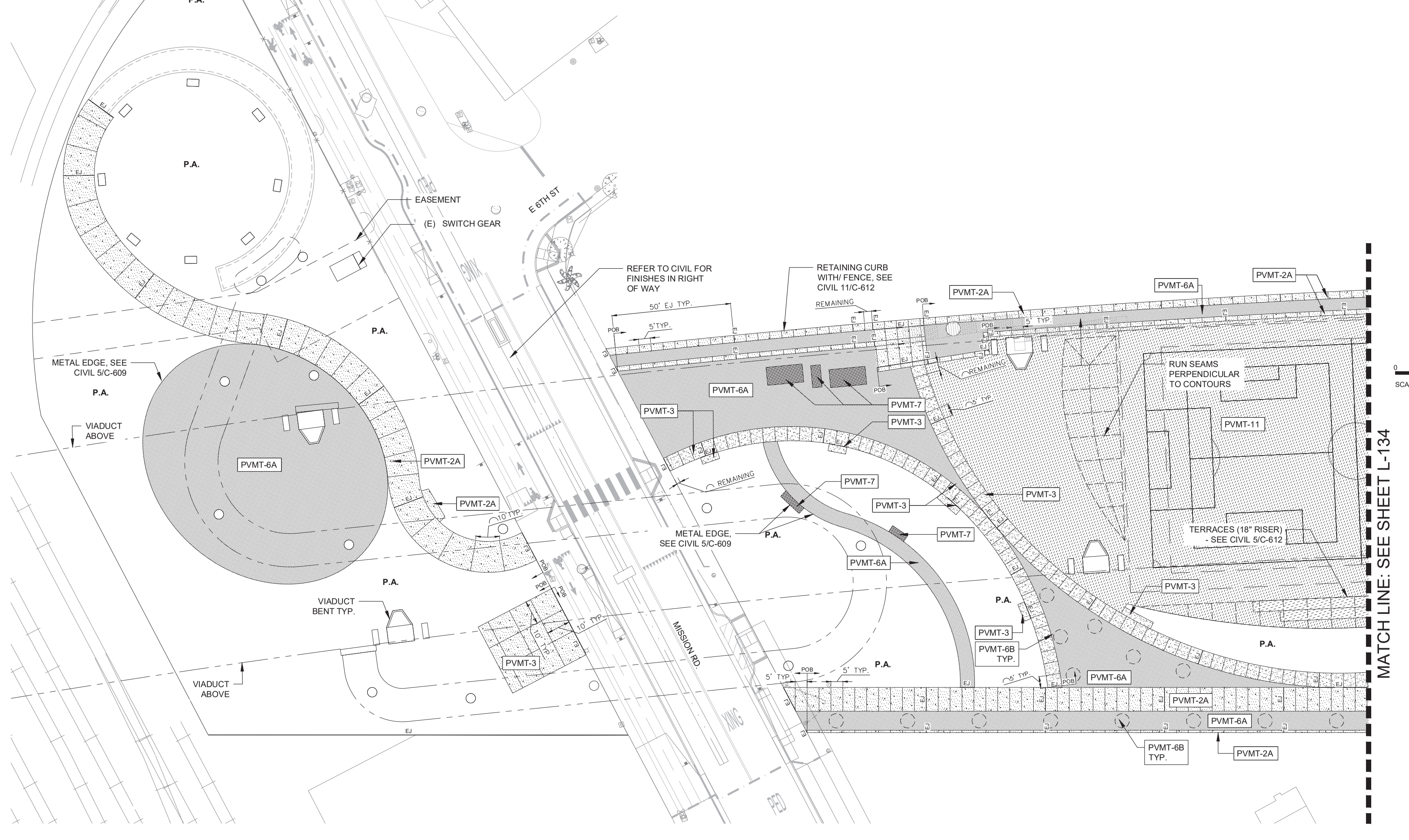
MATERIALS PLAN LEGEND

PVMT 1 - STONE UNIT PAVERS	
PVMT 2 A/B - CIP CONCRETE	
PVMT 3 - CIP CONCRETE	
PVMT 4 - COATED CONCRETE	
PVMT 5 - CONCRETE UNIT PAVERS	
PVMT 6 A/B - CRUSHED STONE	
PVMT 7 - CRUSHED STONE ADMIXTURE	
PVMT 8 - TUNNEL RESURFACING	
PVMT 9 A/B - COATED ASPHALT	
PVMT 10 A/B - SAFETY SURFACING	
PVMT 11 - SYNTHETIC GRASS	

CONTROL JOINT
EJ EXPANSION JOINT
IJ ISOLATION JOINT

SHEET NOTES

1. SEE SHEET L-001 FOR GENERAL LANDSCAPE NOTES, ABBREVIATIONS & SYMBOLS.
2. SEE SHEETS L-030 FOR MATERIALS LEGEND
3. SEE STRUCTURAL DRAWINGS FOR WALLS AND FOOTING.
4. SEE ENLARGEMENT L-404 FOR EAST PARK - NORTHERN EDGE FENCE LAYOUT & ENLARGEMENT L-405 FOR EAST PARK SOCCER FIELD LAYOUT
5. SEE CIVIL DRAWINGS 7/C-600 FOR ALL JOINT DETAILS
6. SEE CIVIL DRAWINGS C-609 FOR ALL PAVEMENT DETAILS
7. SEE CIVIL DRAWINGS C-200 - C-204 FOR SITE HORIZONTAL CONTROL PLANS AND PAVEMENT DETAILS.



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Hargreaves Jones Landscape Architecture

CITY OF LOS ANGELES — DEPARTMENT OF PUBLIC WORKS — BUREAU OF ENGINEERING

VERT. CONTROL: BM 12-04070, 1929 (NGVD29) - 1985 ADJUSTMENT
HORIZ. CONTROL: GPS, PID AE 1704, EPOCH 1991.35

SHEET TITLE: HARDSCAPE PLAN SHEET 3
PROJECT: SIXTH STREET PARK, ARTS AND RIVER CONNECTIVITY IMPROVEMENTS (PARC)
ADDRESS: SIXTH STREET OVER THE LOS ANGELES RIVER

GARY LEE MOORE, P.E., ENV SP — CITY ENGINEER
DESIGN GROUP — DATE:
LANDSCAPE ARCHITECT: MARY MARGARET JONES — LIC. NO. — 07/11/2022
DESIGNED BY: MARY MARGARET JONES
DRAWN BY: MEGAN ESOPENKO
CHECKED BY: GAVIN MCMILLAN
APPROVED BY: MARY MARGARET JONES

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BUILDING NO.

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WORK ORDER NO. E700235D
FILE NO. --
DRAWING NO. L-133
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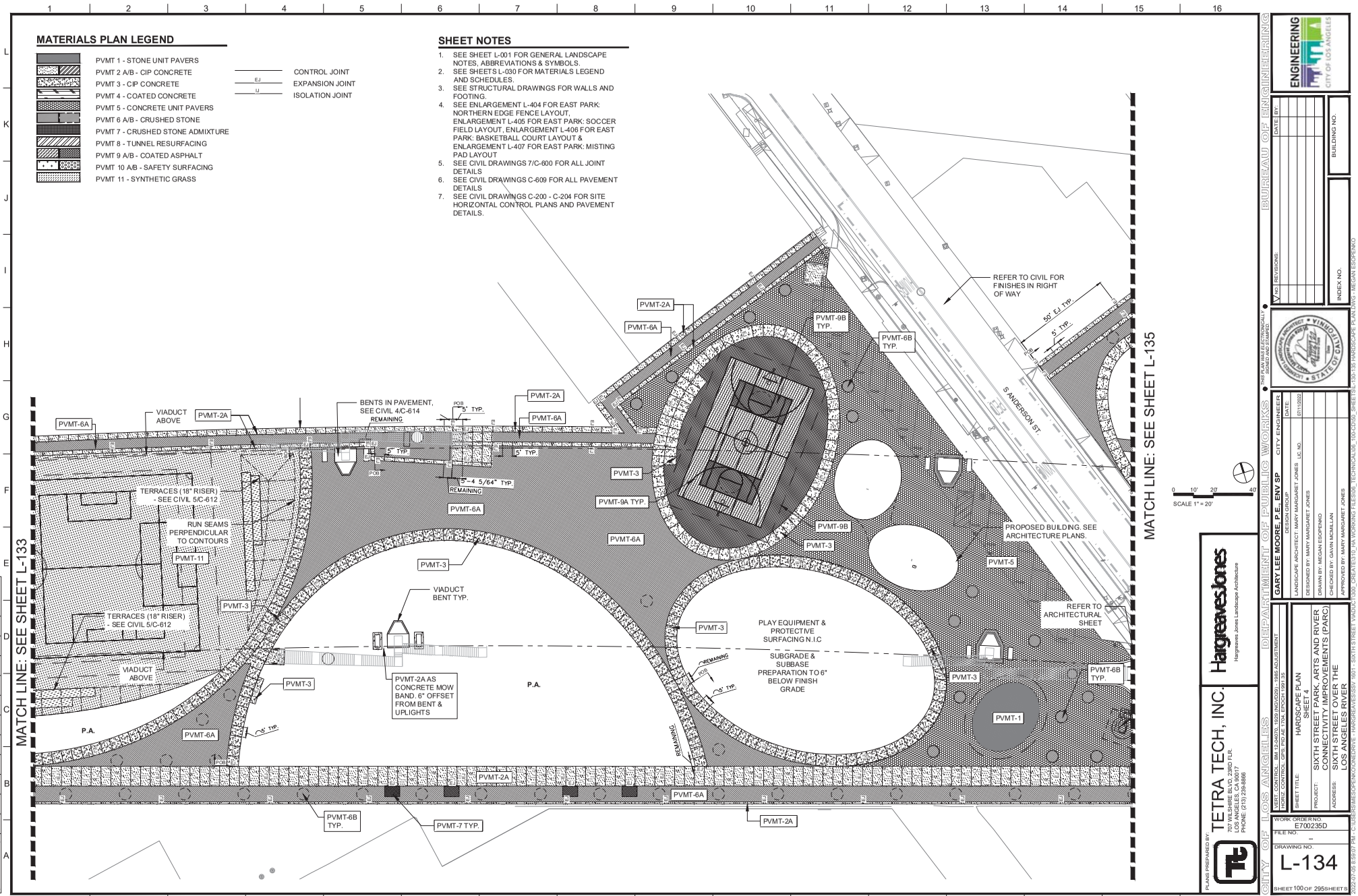

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ENGINEERING

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Hargreaves Jones
Hargreaves Jones Landscape Architecture

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SHEET TITLE: HARDSCAPE PLAN SHEET 4
PROJECT: SIXTH STREET PARK, ARTS AND RIVER CONNECTIVITY IMPROVEMENTS (PARC)
ADDRESS: SIXTH STREET OVER THE LOS ANGELES RIVER

WORK ORDER NO. E700235D
FILE NO. –
DRAWING NO. L-134
SHEET 100 OF 295 SHEETS

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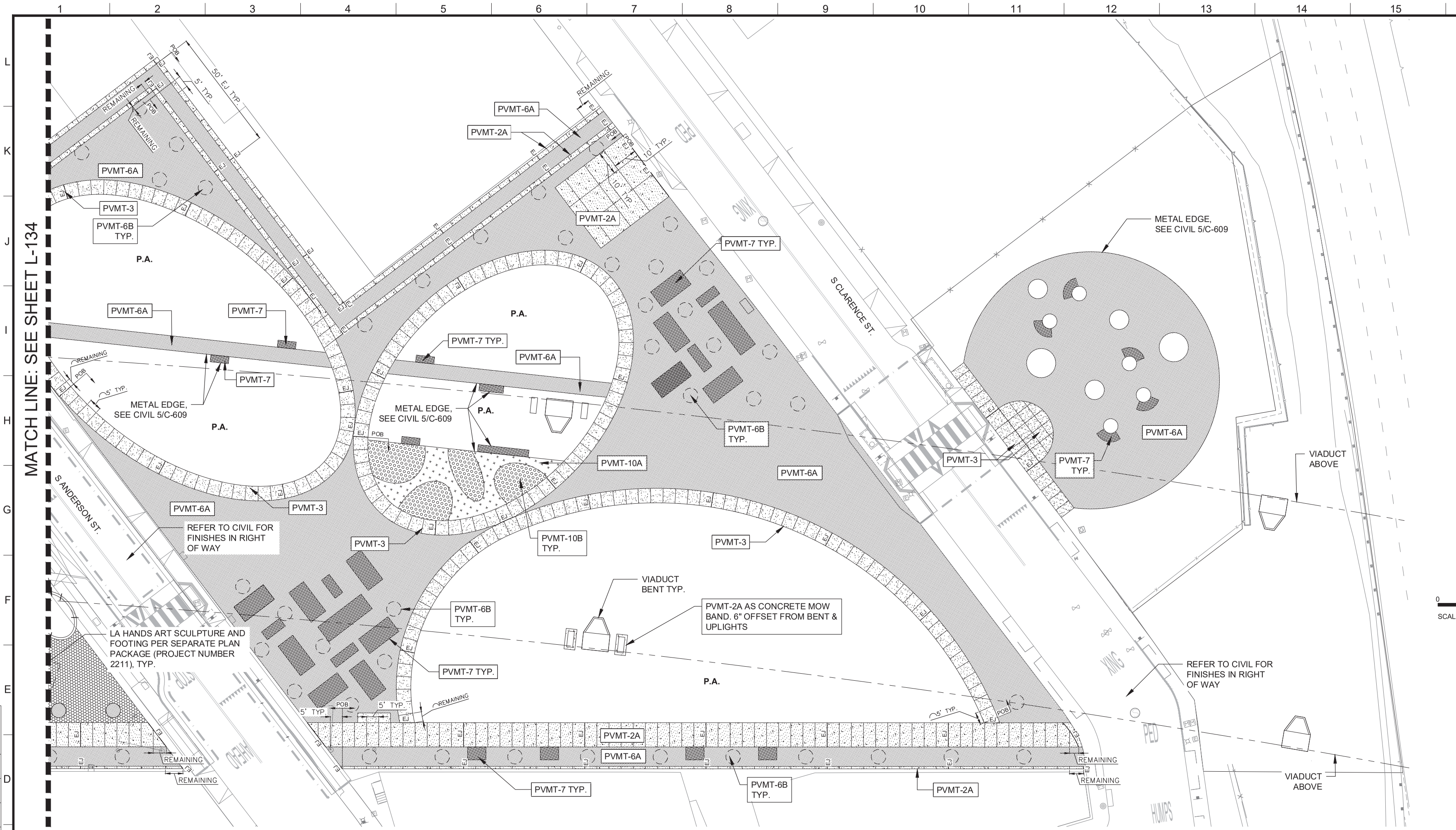

MATERIALS PLAN LEGEND

- PVMT 1 - STONE UNIT PAVERS
- PVMT 2 A/B - CIP CONCRETE
- PVMT 3 - CIP CONCRETE
- PVMT 4 - COATED CONCRETE
- PVMT 5 - CONCRETE UNIT PAVERS
- PVMT 6 A/B - CRUSHED STONE
- PVMT 7 - CRUSHED STONE ADMIXTURE
- PVMT 8 - TUNNEL RESURFACING
- PVMT 9 A/B - COATED ASPHALT
- PVMT 10 A/B - SAFETY SURFACING
- PVMT 11 - SYNTHETIC GRASS

- CONTROL JOINT
- EJ — EXPANSION JOINT
- IJ — ISOLATION JOINT

SHEET NOTES

1. SEE SHEET L-001 FOR GENERAL LANDSCAPE NOTES, ABBREVIATIONS & SYMBOLS.
2. SEE SHEETS L-030 FOR MATERIALS LEGEND AND SCHEDULES.
3. SEE STRUCTURAL DRAWINGS FOR WALLS AND FOOTING.
4. SEE ENLARGEMENT L-408 FOR EAST PARK: PLANTING FENCE LAYOUT, ENLARGEMENT L-409 FOR EAST PARK: PLANTING FENCE & FITNESS LAYOUT & ENLARGEMENT L-410 FOR EAST PARK: DOG PARK LAYOUT.
5. SEE CIVIL DRAWINGS 7/C-600 FOR ALL JOINT DETAILS
6. SEE CIVIL DRAWINGS C-609 FOR ALL PAVEMENT DETAILS
7. SEE CIVIL DRAWINGS C-200 - C-204 FOR SITE HORIZONTAL CONTROL PLANS AND PAVEMENT DETAILS.

PLANS PREPARED BY:
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Hargreaves Jones Landscape Architecture

CITY OF LOS ANGELES — DEPARTMENT OF PUBLIC WORKS — BUREAU OF ENGINEERING

VERT. CONTROL: BM 12-04070, 1929 (NGVD29) - 1985 ADJUSTMENT
HORIZ. CONTROL: GPS, PID AE 1704, EPOCH 1991.35

SHEET TITLE: HARDSCAPE PLAN SHEET 5
PROJECT: SIXTH STREET PARK, ARTS AND RIVER CONNECTIVITY IMPROVEMENTS (PARC)
ADDRESS: SIXTH STREET OVER THE LOS ANGELES RIVER

GARY LEE MOORE, P.E., ENV SP — CITY ENGINEER — DATE:
DESIGN GROUP
LANDSCAPE ARCHITECT: MARY MARGARET JONES — LIC. NO. — 07/11/2022
DESIGNED BY: MARY MARGARET JONES
DRAWN BY: MEGAN ESOPENKO
CHECKED BY: GAVIN MCMILLAN
APPROVED BY: MARY MARGARET JONES

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BUILDING NO.

WORK ORDER NO. E700235D
FILE NO. --
DRAWING NO. L-135
SHEET 101 OF 295 SHEETS

REVISION DATES (DESIGN STAGE ONLY)

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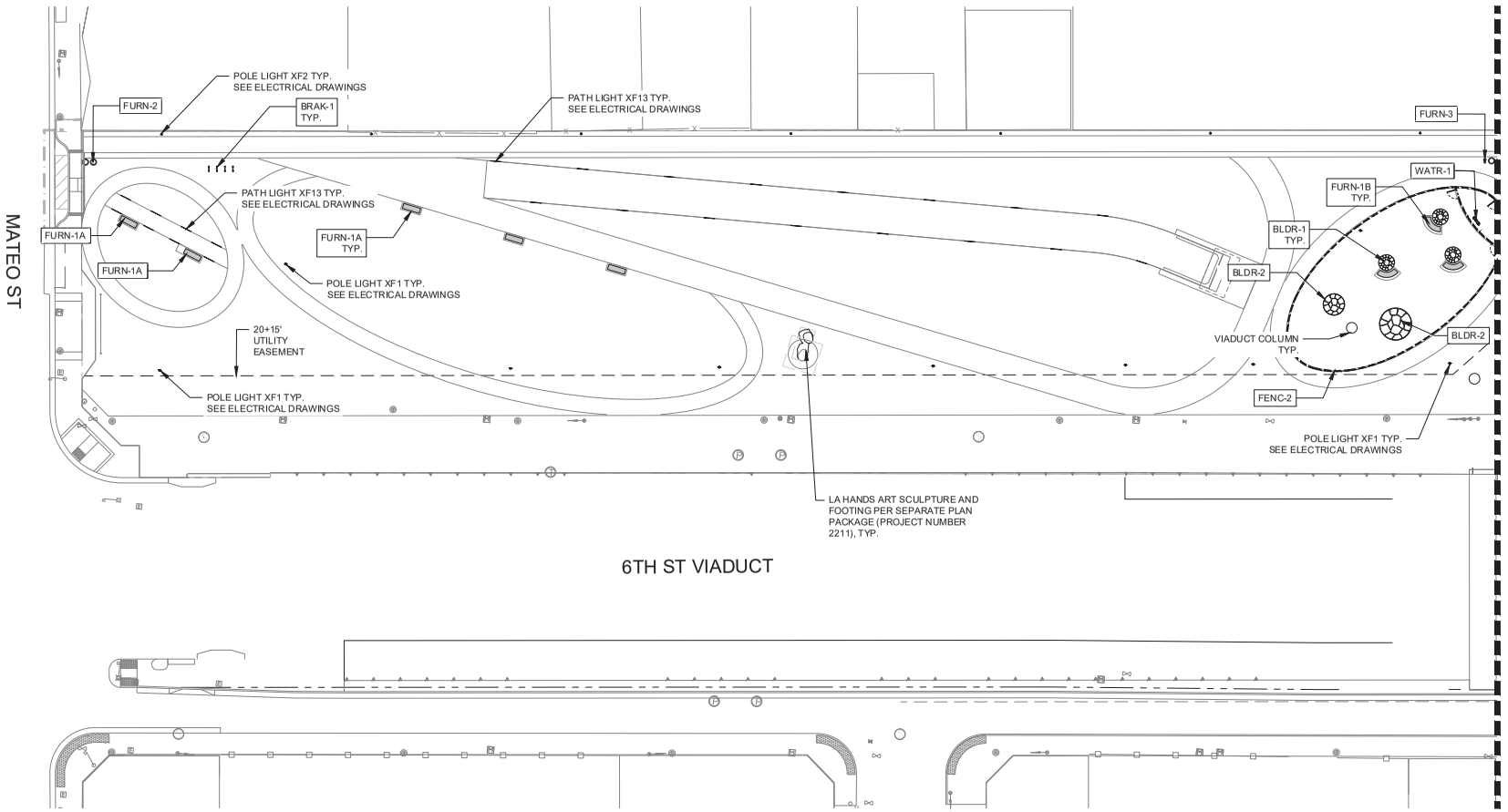

SITE FURNISHING PLAN LEGEND

- FURN 1A - STRAIGHT BENCH
- FURN 1B - CURVED BENCH
- FURN 2 - WASTE RECEPTACLES
- FURN 3 - DOG WASTE UNIT
- FURN 4 - PICNIC UNIT
- FURN 5 - PICNIC GRILL
- FURN 6 - PRECAST BENCH 24"
- FURN 7 - PRECAST BENCH 48"
- BRAK 1 - BIKE RACK
- WATR 1 - WATER STATION
- BLDR 1 - SMALL BOULDERS
- BLDR 2 - LARGE BOULDERS
- SKAT 1 - SKATE DETERRENTS
- GRAL 1 - GUARDRAIL
- GRAL 2 - GUARDRAIL-WITH HANDRAIL
- FENC 1 - 2' FENCE
- FENC 2 - 4' FENCE
- FENC 3 - 8' FENCE
- FENC 4 - 20' FENCE

SHEET NOTES

1. SEE SHEET L-001 FOR GENERAL LANDSCAPE NOTES, ABBREVIATIONS & SYMBOLS.
2. SEE SHEETS L-040 TO L-042 FOR FURNISHINGS
3. SEE L-401 FOR DOG PARK & FITNESS LAYOUT ENLARGEMENT
4. SEE ELECTRICAL SHEETS E-407 - E-501 FOR LIGHTING SCHEDULE & DETAILS.
5. SEE ENLARGEMENT L-401 FOR WEST PARK - DOG PARK & FITNESS LAYOUT

SCALE 1" = 20'

PLANS PREPARED BY:
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CITY OF LOS ANGELES DEPARTMENT OF PUBLIC WORKS BUREAU OF ENGINEERING
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GARY LEE MOORE, P.E., ENV SP — CITY ENGINEER — DATE: 07/11/2022
LANDSCAPE ARCHITECT: MARY MARGARET JONES — LIC. NO.
DESIGNED BY: MARY MARGARET JONES
DRAWN BY: MEGAN ESOPENKO
CHECKED BY: GAVIN MCMILLAN
APPROVED BY: MARY MARGARET JONES

DESIGN GROUP

VERT. CONTROL: NAVD88 (GEOID18) - 1985 ADJUSTMENT
HORIZ. CONTROL: GRS, FRD AE, ITRF, EPOCH 1991.35

SHEET TITLE: FURNITURE & SIGNAGE PLAN SHEET 1

PROJECT: SIXTH STREET PARK, ARTS AND RIVER CONNECTIVITY IMPROVEMENTS (PARC)

ADDRESS: SIXTH STREET OVER THE LOS ANGELES RIVER

WORK ORDER NO. E700235D
FILE NO. –
DRAWING NO. L-141
SHEET 102 OF 295 SHEETS

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DESIGN DATES (DESIGN STAGE ONLY)

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SITE FURNISHING PLAN LEGEND

- FURN 1A - STRAIGHT BENCH
- FURN 1B - CURVED BENCH
- FURN 2 - WASTE RECEPTACLES
- FURN 3 - DOG WASTE UNIT
- FURN 4 - PICNIC UNIT
- FURN 5 - PICNIC GRILL
- FURN 6 - PRECAST BENCH 24"
- FURN 7 - PRECAST BENCH 48"
- BRAK 1 - BIKE RACK
- WATR 1 - WATER STATION
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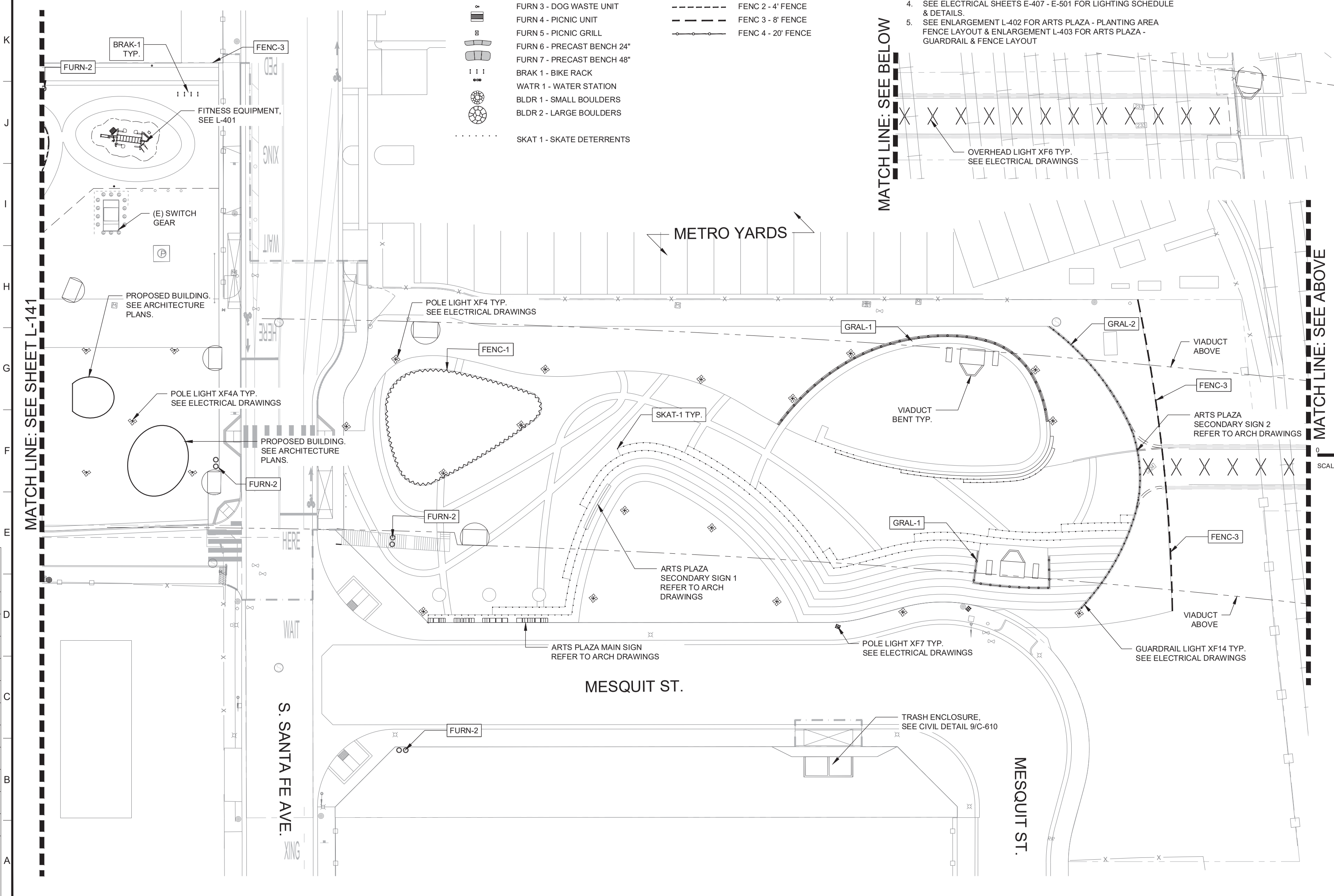
- FENC 4 - 20' FENCE

SHEET NOTES

1. SEE SHEET L-001 FOR GENERAL LANDSCAPE NOTES, ABBREVIATIONS & SYMBOLS.
2. SEE SHEETS L-040 TO L-042 FOR FURNISHINGS
3. SEE L-401 FOR DOG PARK & FITNESS LAYOUT ENLARGEMENT
4. SEE ELECTRICAL SHEETS E-407 - E-501 FOR LIGHTING SCHEDULE & DETAILS.
5. SEE ENLARGEMENT L-402 FOR ARTS PLAZA - PLANTING AREA FENCE LAYOUT & ENLARGEMENT L-403 FOR ARTS PLAZA - GUARDRAIL & FENCE LAYOUT



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CITY OF LOS ANGELES — DEPARTMENT OF PUBLIC WORKS — BUREAU OF ENGINEERING

VERT. CONTROL: BM 12-04070, 1929 (NGVD29) - 1985 ADJUSTMENT
HORIZ. CONTROL: GPS, PID AE 1704, EPOCH 1991.35

SHEET TITLE: FURNITURE & SIGNAGE PLAN SHEET 2
PROJECT: SIXTH STREET PARK, ARTS AND RIVER CONNECTIVITY IMPROVEMENTS (PARC)
ADDRESS: SIXTH STREET OVER THE LOS ANGELES RIVER

GARY LEE MOORE, P.E., ENV SP — CITY ENGINEER
DESIGN GROUP
LANDSCAPE ARCHITECT: MARY MARGARET JONES — LIC. NO. — DATE: 07/11/2022
DESIGNED BY: MARY MARGARET JONES
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NO.	REVISIONS	DATE	BY

INDEX NO.
BUILDING NO.

WORK ORDER NO. E700235D
FILE NO. --
DRAWING NO. L-142
SHEET 103 OF 295 SHEETS

REVISION DATES (DESIGN STAGE ONLY)

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SITE FURNISHING PLAN LEGEND

- FURN 1A - STRAIGHT BENCH
- FURN 1B - CURVED BENCH
- FURN 2 - WASTE RECEPTACLES
- FURN 3 - DOG WASTE UNIT
- FURN 4 - PICNIC UNIT
- FURN 5 - PICNIC GRILL
- FURN 6 - PRECAST BENCH 24"
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- BLDR 1 - SMALL BOULDERS
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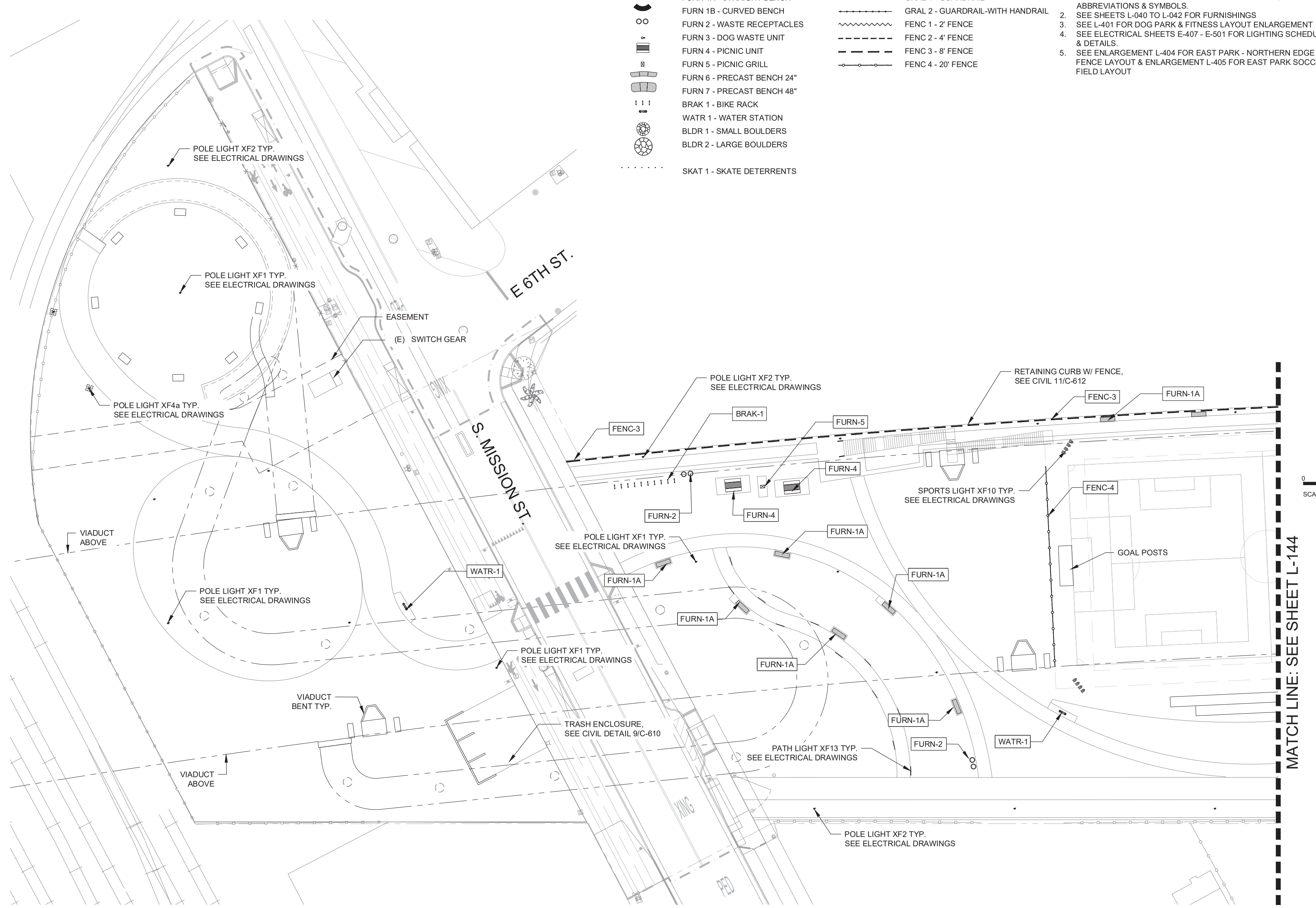

PLANS PREPARED BY:

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VERT. CONTROL: BM 12-04070, 1929 (NGVD29) - 1985 ADJUSTMENT
HORIZ. CONTROL: GPS, PID AE 1704, EPOCH 1991.35

SHEET TITLE: FURNITURE & SIGNAGE PLAN SHEET 3

PROJECT: SIXTH STREET PARK, ARTS AND RIVER CONNECTIVITY IMPROVEMENTS (PARC)

ADDRESS: SIXTH STREET OVER THE LOS ANGELES RIVER

GARY LEE MOORE, P.E., ENV SP — CITY ENGINEER

DESIGN GROUP — DATE:
LANDSCAPE ARCHITECT: MARY MARGARET JONES — LIC. NO. — 07/11/2022
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NO. REVISIONS: DATE: BY:

INDEX NO.

BUILDING NO.

ENGINEERING — CITY OF LOS ANGELES

WORK ORDER NO. E700235D
FILE NO. --
DRAWING NO. L-143

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SITE FURNISHING PLAN LEGEND

Symbol	Item
	FURN 1A - STRAIGHT BENCH
	FURN 1B - CURVED BENCH
	FURN 2 - WASTE RECEPTACLES
	FURN 3 - DOG WASTE UNIT
	FURN 4 - PICNIC UNIT
	FURN 5 - PICNIC GRILL
	FURN 6 - PRECAST BENCH 24"
	FURN 7 - PRECAST BENCH 48"
	BRAK 1 - BIKE RACK
	WATR 1 - WATER STATION
	BLDR 1 - SMALL BOULDERS
	BLDR 2 - LARGE BOULDERS
	SKAT 1 - SKATE DETERRENTS
	GRAL 1 - GUARDRAIL
	GRAL 2 - GUARDRAIL-WITH HANDRAIL
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	FENC 2 - 4' FENCE
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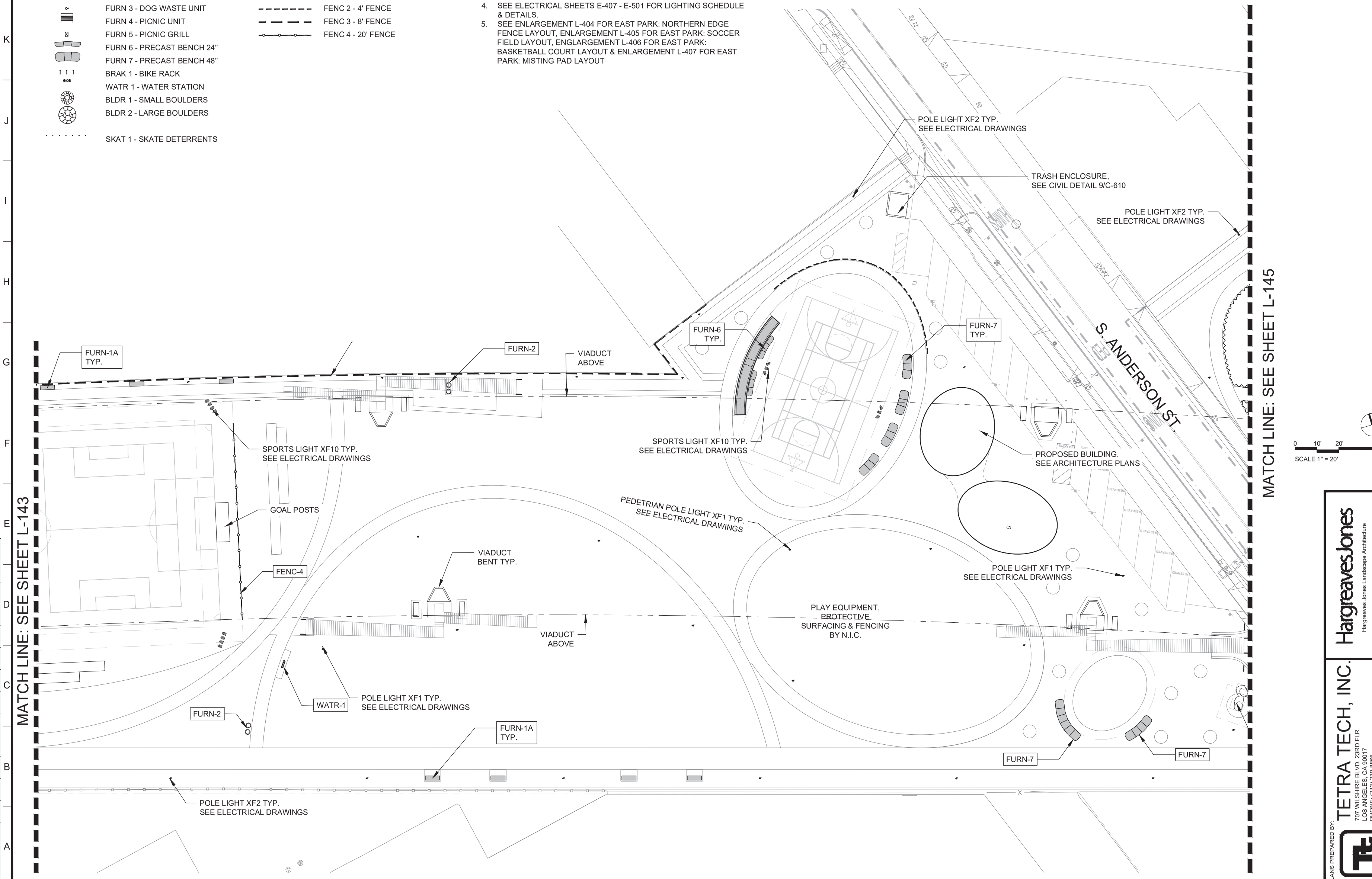
2. SEE SHEETS L-040 TO L-042 FOR FURNISHINGS
3. SEE L-401 FOR DOG PARK & FITNESS LAYOUT ENLARGEMENT
4. SEE ELECTRICAL SHEETS E-407 - E-501 FOR LIGHTING SCHEDULE & DETAILS.
5. SEE ENLARGEMENT L-404 FOR EAST PARK: NORTHERN EDGE FENCE LAYOUT, ENLARGEMENT L-405 FOR EAST PARK: SOCCER FIELD LAYOUT, ENGLARGEMENT L-406 FOR EAST PARK: BASKETBALL COURT LAYOUT & ENLARGEMENT L-407 FOR EAST PARK: MISTING PAD LAYOUT



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SHEET TITLE: FURNITURE & SIGNAGE PLAN SHEET 4

PROJECT: SIXTH STREET PARK, ARTS AND RIVER CONNECTIVITY IMPROVEMENTS (PARC)

ADDRESS: SIXTH STREET OVER THE LOS ANGELES RIVER

GARY LEE MOORE, P.E., ENV SP — CITY ENGINEER
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ENGINEERING — CITY OF LOS ANGELES

WORK ORDER NO. E700235D
FILE NO. --
DRAWING NO. L-144
SHEET 105 OF 295 SHEETS

2022-07-05 8:59:49 PM - C:\USERS\MESOPENKO\ONEDRIVE - HARGREAVES\SSV 1601 - SIXTH STREET VIADUCT\300_CREATE\310_HA WORKING FILES\06_TECHNICAL\06_100-CD\50_SHEETS\L-140-145 LIGHTING-SIGNAGE AND FURNITURE.DWG - MEGAN ESOPENKO

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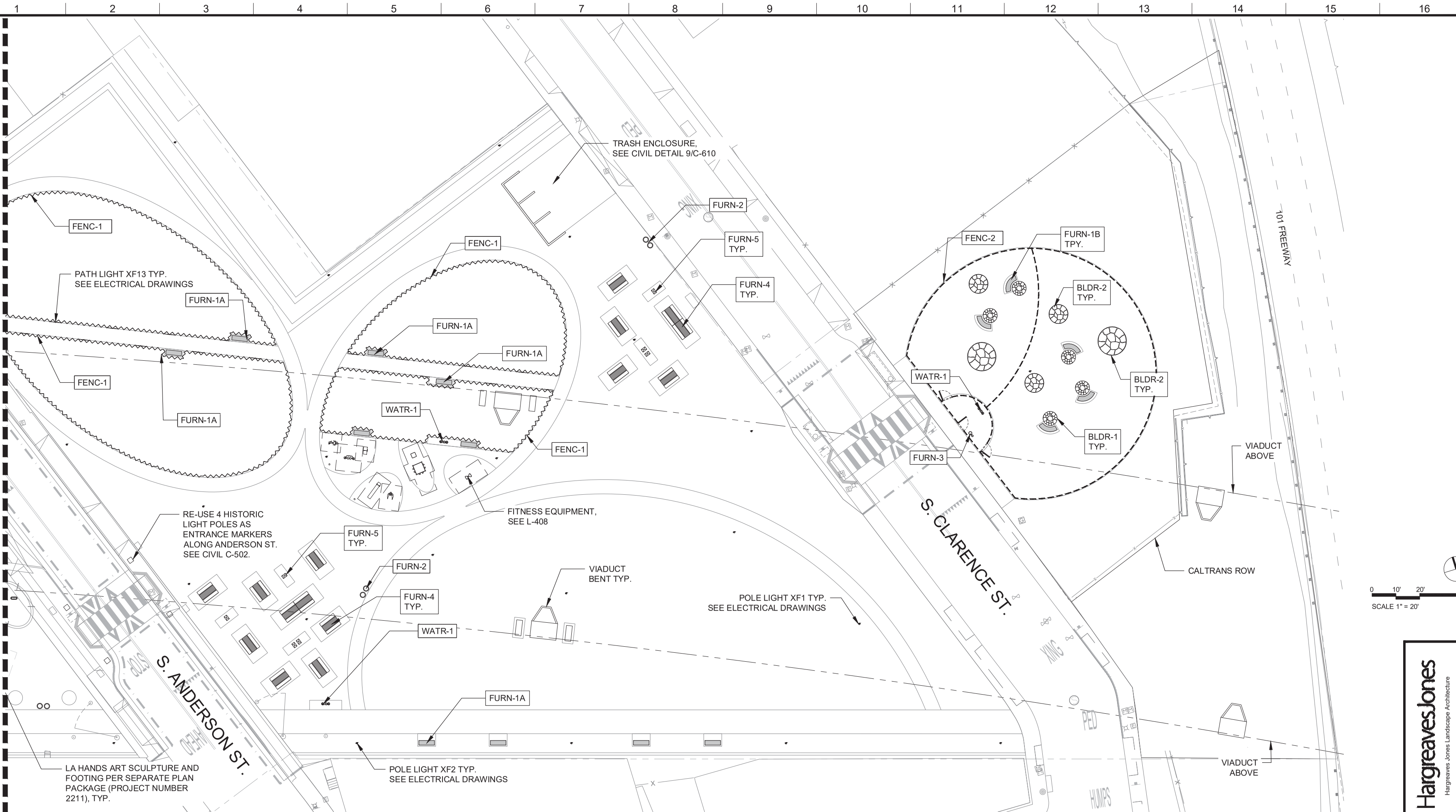

SITE FURNISHING PLAN LEGEND

- FURN 1A - STRAIGHT BENCH
- FURN 1B - CURVED BENCH
- FURN 2 - WASTE RECEPTACLES
- FURN 3 - DOG WASTE UNIT
- FURN 4 - PICNIC UNIT
- FURN 5 - PICNIC GRILL
- FURN 6 - PRECAST BENCH 24"
- FURN 7 - PRECAST BENCH 48"
- BRAK 1 - BIKE RACK
- WATR 1 - WATER STATION
- BLDR 1 - SMALL BOULDERS
- BLDR 2 - LARGE BOULDERS
- SKAT 1 - SKATE DETERRENTS
- GRAL 1 - GUARDRAIL
- GRAL 2 - GUARDRAIL-WITH HANDRAIL
- FENC 1 - 2' FENCE
- FENC 2 - 4' FENCE
- FENC 3 - 8' FENCE
- FENC 4 - 20' FENCE

SHEET NOTES

1. SEE SHEET L-001 FOR GENERAL LANDSCAPE NOTES, ABBREVIATIONS & SYMBOLS.
2. SEE SHEETS L-040 TO L-042 FOR FURNISHINGS
3. SEE L-401 FOR DOG PARK & FITNESS LAYOUT ENLARGEMENT
4. SEE ELECTRICAL SHEETS E-407 - E-501 FOR LIGHTING SCHEDULE & DETAILS.
5. SEE ENLARGEMENT L-408 FOR EAST PARK: PLANTING FENCE LAYOUT, ENLARGEMENT L-409 FOR EAST PARK: PLANTING FENCE & FITNESS LAYOUT & ENLARGEMENT L-410 FOR EAST PARK: DOG PARK LAYOUT.

PLANS PREPARED BY:
TETRA TECH, INC.
707 WILSHIRE BLVD. 23RD FLR.
LOS ANGELES, CA 90017
PHONE: (213) 239-8866

HargreavesJones
Hargreaves Jones Landscape Architecture

CITY OF LOS ANGELES DEPARTMENT OF PUBLIC WORKS BUREAU OF ENGINEERING

VERT. CONTROL: BM 12-04070, 1929 (NGVD29) - 1985 ADJUSTMENT
HORIZ. CONTROL: GPS, PID AE 1704, EPOCH 1991.35

SHEET TITLE: FURNITURE & SIGNAGE PLAN SHEET 5
PROJECT: SIXTH STREET PARK, ARTS AND RIVER CONNECTIVITY IMPROVEMENTS (PARC)
ADDRESS: SIXTH STREET OVER THE LOS ANGELES RIVER

GARY LEE MOORE, P.E., ENV SP — CITY ENGINEER
DESIGN GROUP — DATE:
LANDSCAPE ARCHITECT: MARY MARGARET JONES — LIC. NO. — 07/11/2022
DESIGNED BY: MARY MARGARET JONES
DRAWN BY: MEGAN ESOPENKO
CHECKED BY: GAVIN MCMILLAN
APPROVED BY: MARY MARGARET JONES

THIS PLAN WAS ELECTRONICALLY SIGNED AND STAMPED.

NO. REVISIONS: DATE: BY:
INDEX NO.
BUILDING NO.

ENGINEERING
CITY OF LOS ANGELES

WORK ORDER NO. E700235D
FILE NO. --
DRAWING NO. L-145
SHEET 106 OF 295 SHEETS

REVISION DATES (DESIGN STAGE ONLY)

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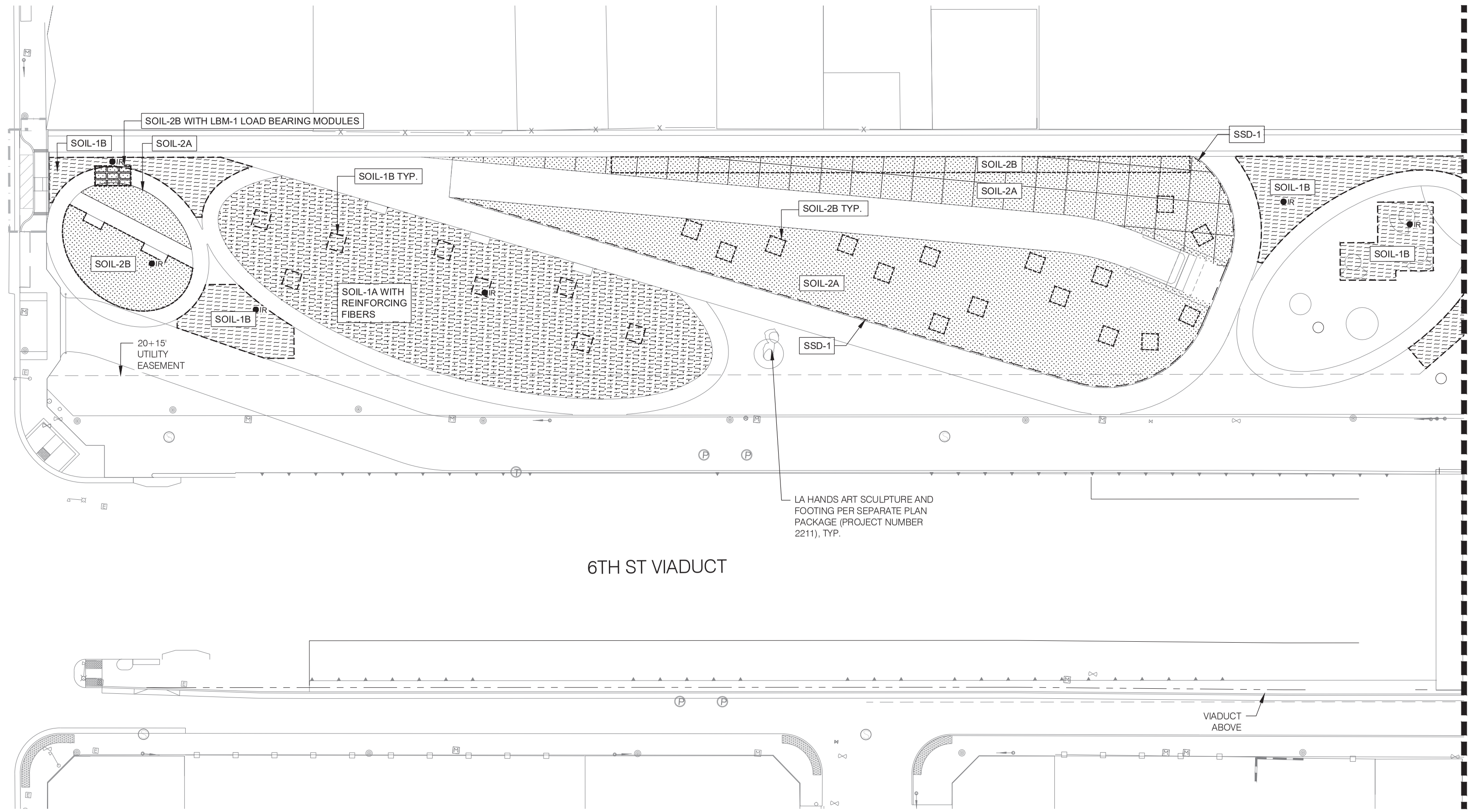

SOILS PLAN LEGEND

- SOIL 1A - LAWN
- SOIL 1B - LAWN & DG WITH TREES
- SOIL 2A - PLANTING
- SOIL 2B - PLANTING WITH TREES
- REINFORCING FIBERS
- LBM 1 - LOAD BEARING MODULES
- SSD 1 - FRENCH DRAIN
- EROS 1 - EROSION CONTROL MAT
- IR - ROOT ZONE INSPECTION RISER

SHEET NOTES

1. SEE SHEET L-001 FOR GENERAL LANDSCAPE NOTES, ABBREVIATIONS & SYMBOLS.
2. SEE SHEETS L-050 FOR SOILS LEGEND AND SCHEDULES.

SCALE 1" = 20'

PLANS PREPARED BY:
TETRA TECH, INC.
707 WILSHIRE BLVD, 23RD FLR.
LOS ANGELES, CA 90017
PHONE: (213) 239-8866

HargreavesJones
Hargreaves Jones Landscape Architecture

CITY OF LOS ANGELES — DEPARTMENT OF PUBLIC WORKS — BUREAU OF ENGINEERING

VERT. CONTROL: BM 12-04070, 1929 (NGVD29) - 1985 ADJUSTMENT
HORIZ. CONTROL: GPS, PID AE 1704, EPOCH 1991.35

SHEET TITLE: SOILS PLAN SHEET 1
PROJECT: SIXTH STREET PARK, ARTS AND RIVER CONNECTIVITY IMPROVEMENTS (PARC)
ADDRESS: SIXTH STREET OVER THE LOS ANGELES RIVER

GARY LEE MOORE, P.E., ENV SP — CITY ENGINEER
DESIGN GROUP — DATE:
LANDSCAPE ARCHITECT: MARY MARGARET JONES — LIC. NO. — 07/11/2022
DESIGNED BY: MARY MARGARET JONES
DRAWN BY: MEGAN ESOPENKO
CHECKED BY: GAVIN MCMILLAN
APPROVED BY: MARY MARGARET JONES

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NO.	REVISIONS:	DATE	BY:

INDEX NO.
BUILDING NO.

WORK ORDER NO. E700235D
FILE NO. --
DRAWING NO. L-151
SHEET 107 OF 295 SHEETS

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BID SET - NOT FOR CONSTRUCTION - 07/11/2022

SOILS PLAN LEGEND

- SOIL 1A - LAWN
- SOIL 1B - LAWN & DG WITH TREES
- SOIL 2A - PLANTING
- SOIL 2B - PLANTING WITH TREES
- REINFORCING FIBERS
- LBM 1 - LOAD BEARING MODULES
- SSD 1 - FRENCH DRAIN
- EROS 1 - EROSION CONTROL MAT
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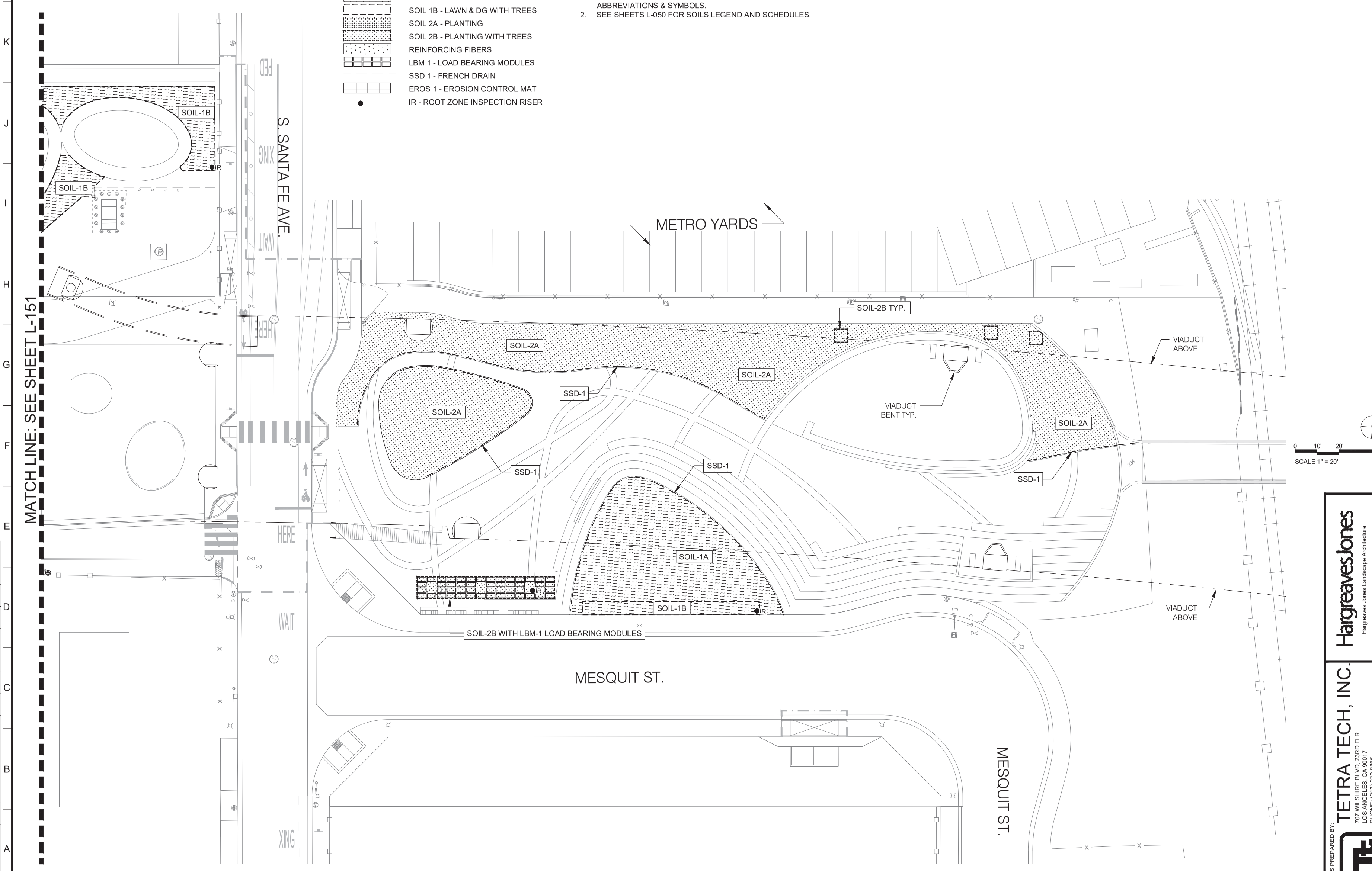
SHEET NOTES

1. SEE SHEET L-001 FOR GENERAL LANDSCAPE NOTES, ABBREVIATIONS & SYMBOLS.
2. SEE SHEETS L-050 FOR SOILS LEGEND AND SCHEDULES.



PLANS PREPARED BY:

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LOS ANGELES, CA 90017
PHONE: (213) 239-8866

HargreavesJones
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VERT. CONTROL: BM 12-04070, 1929 (NGVD29) - 1985 ADJUSTMENT
HORIZ. CONTROL: GPS, PID AE 1704, EPOCH 1991.35

SHEET TITLE: SOILS PLAN SHEET 2

PROJECT: SIXTH STREET PARK, ARTS AND RIVER CONNECTIVITY IMPROVEMENTS (PARC)

ADDRESS: SIXTH STREET OVER THE LOS ANGELES RIVER

GARY LEE MOORE, P.E., ENV SP — CITY ENGINEER
DESIGN GROUP — DATE:
LANDSCAPE ARCHITECT: MARY MARGARET JONES — LIC. NO. — 07/11/2022
DESIGNED BY: MARY MARGARET JONES
DRAWN BY: MEGAN ESOPENKO
CHECKED BY: GAVIN MCMILLAN
APPROVED BY: MARY MARGARET JONES

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NO.	REVISIONS:	DATE	BY:

INDEX NO.

BUILDING NO.

ENGINEERING — CITY OF LOS ANGELES

WORK ORDER NO. E700235D
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DRAWING NO. L-152
SHEET 108 OF 295 SHEETS

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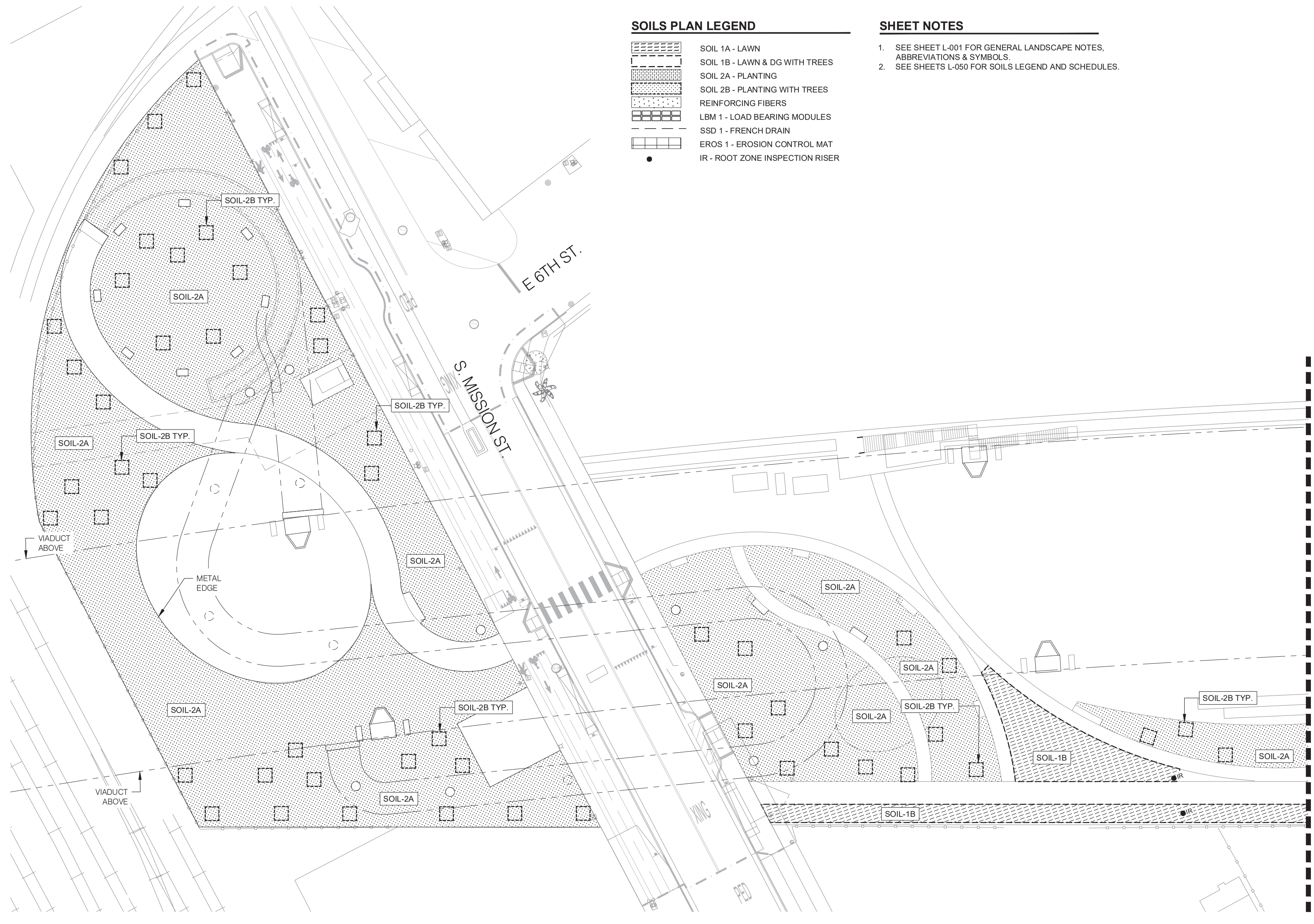
BID SET - NOT FOR CONSTRUCTION - 07/11/2022

SOILS PLAN LEGEND

- SOIL 1A - LAWN
- SOIL 1B - LAWN & DG WITH TREES
- SOIL 2A - PLANTING
- SOIL 2B - PLANTING WITH TREES
- REINFORCING FIBERS
- LBM 1 - LOAD BEARING MODULES
- SSD 1 - FRENCH DRAIN
- EROS 1 - EROSION CONTROL MAT
- IR - ROOT ZONE INSPECTION RISER

SHEET NOTES

1. SEE SHEET L-001 FOR GENERAL LANDSCAPE NOTES, ABBREVIATIONS & SYMBOLS.
2. SEE SHEETS L-050 FOR SOILS LEGEND AND SCHEDULES.



MATCH LINE: SEE SHEET L-154

SCALE 1" = 20'

PLANS PREPARED BY:

TETRA TECH, INC.
707 WILSHIRE BLVD, 23RD FLR.
LOS ANGELES, CA 90017
PHONE: (213) 239-8866

HargreavesJones
Hargreaves Jones Landscape Architecture

CITY OF LOS ANGELES — DEPARTMENT OF PUBLIC WORKS — BUREAU OF ENGINEERING

VERT. CONTROL: BM 12-04070, 1929 (NGVD29) - 1985 ADJUSTMENT
HORIZ. CONTROL: GPS, PID AE 1704, EPOCH 1991.35

SHEET TITLE: SOILS PLAN SHEET 3

PROJECT: SIXTH STREET PARK, ARTS AND RIVER CONNECTIVITY IMPROVEMENTS (PARC)

ADDRESS: SIXTH STREET OVER THE LOS ANGELES RIVER

GARY LEE MOORE, P.E., ENV SP — CITY ENGINEER

DESIGN GROUP — DATE:

LANDSCAPE ARCHITECT: MARY MARGARET JONES — LIC. NO. — 07/11/2022

DESIGNED BY: MARY MARGARET JONES

DRAWN BY: MEGAN ESOPENKO

CHECKED BY: GAVIN MCMILLAN

APPROVED BY: MARY MARGARET JONES

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INDEX NO.

BUILDING NO.

WORK ORDER NO. E700235D

FILE NO. --

DRAWING NO. L-153

SHEET 109 OF 295 SHEETS

REVISION DATES (DESIGN STAGE ONLY)

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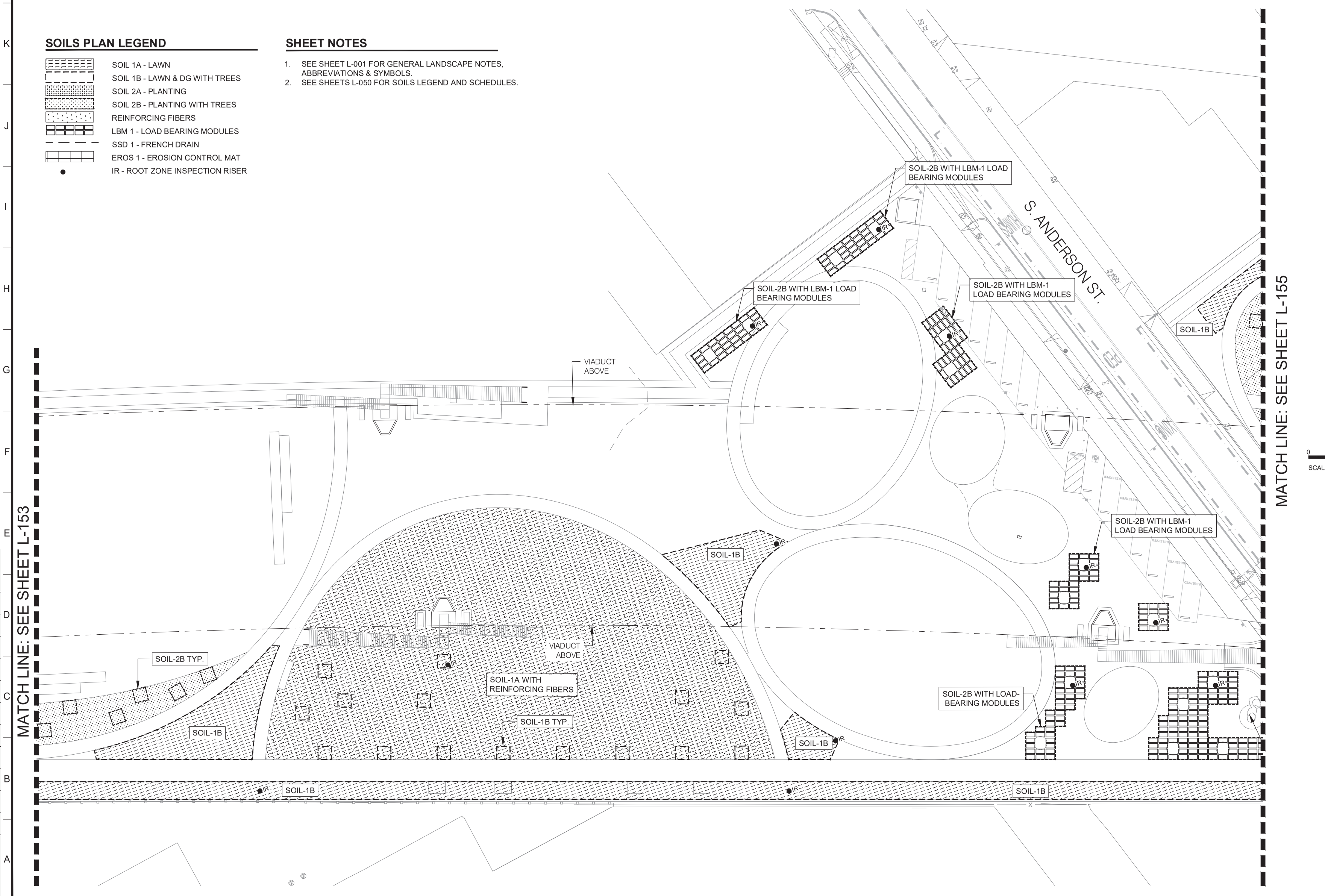
SOILS PLAN LEGEND

- SOIL 1A - LAWN
- SOIL 1B - LAWN & DG WITH TREES
- SOIL 2A - PLANTING
- SOIL 2B - PLANTING WITH TREES
- REINFORCING FIBERS
- LBM 1 - LOAD BEARING MODULES
- SSD 1 - FRENCH DRAIN
- EROS 1 - EROSION CONTROL MAT
- IR - ROOT ZONE INSPECTION RISER

SHEET NOTES

1. SEE SHEET L-001 FOR GENERAL LANDSCAPE NOTES, ABBREVIATIONS & SYMBOLS.
2. SEE SHEETS L-050 FOR SOILS LEGEND AND SCHEDULES.



PLANS PREPARED BY:

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LOS ANGELES, CA 90017
PHONE: (213) 239-8866

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VERT. CONTROL: BM 12-04070, 1929 (NGVD29) - 1985 ADJUSTMENT
HORIZ. CONTROL: GPS, PID AE 1704, EPOCH 1991.35

SHEET TITLE: SOILS PLAN SHEET 4
PROJECT: SIXTH STREET PARK, ARTS AND RIVER CONNECTIVITY IMPROVEMENTS (PARC)
ADDRESS: SIXTH STREET OVER THE LOS ANGELES RIVER

GARY LEE MOORE, P.E., ENV SP — CITY ENGINEER
DESIGN GROUP — DATE:
LANDSCAPE ARCHITECT: MARY MARGARET JONES — LIC. NO. — 07/11/2022
DESIGNED BY: MARY MARGARET JONES
DRAWN BY: MEGAN ESOPENKO
CHECKED BY: GAVIN MCMILLAN
APPROVED BY: MARY MARGARET JONES

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WORK ORDER NO. E700235D
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DRAWING NO. L-154
SHEET 110 OF 295 SHEETS

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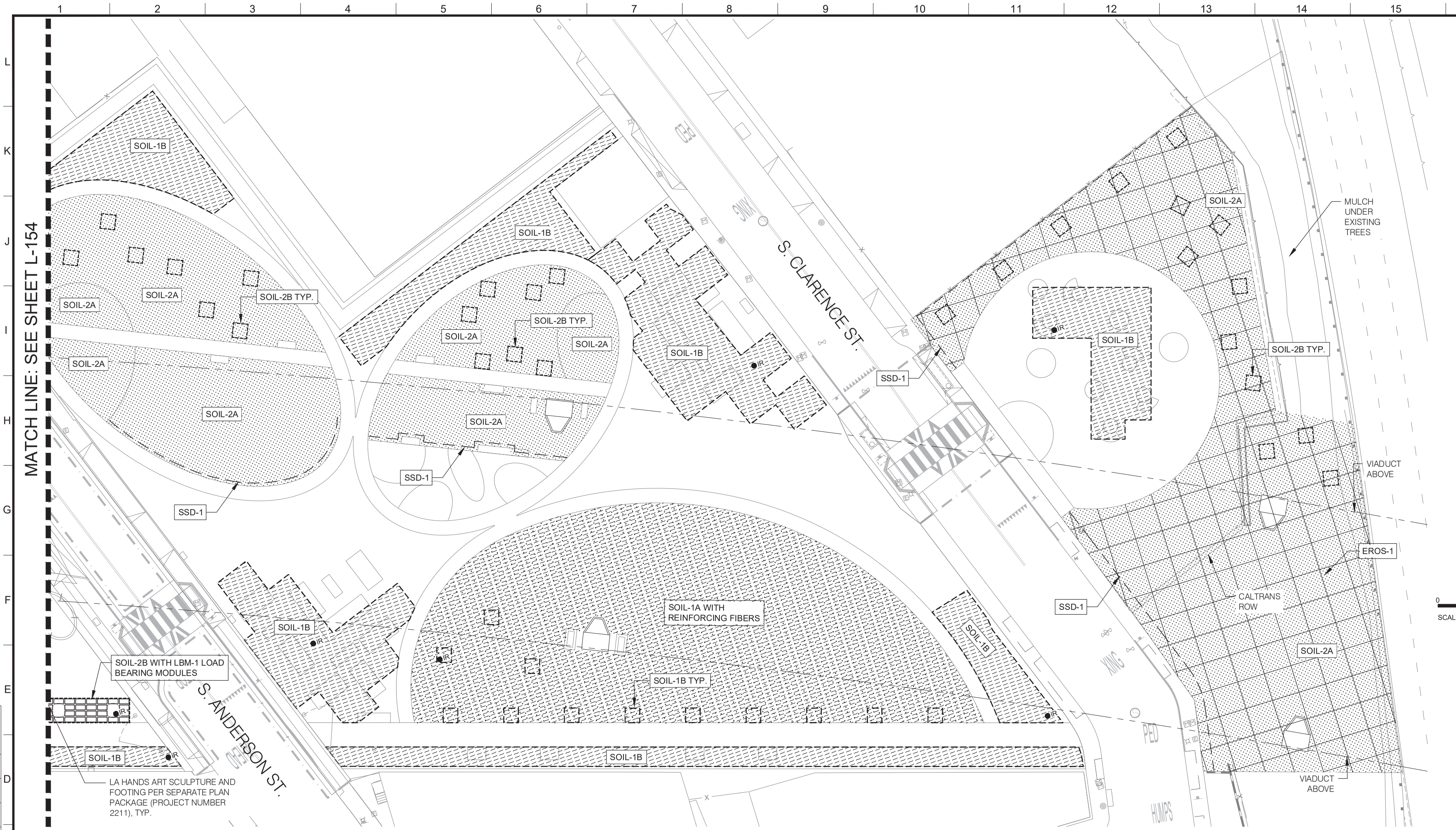

SOILS PLAN LEGEND

- SOIL 1A - LAWN
- SOIL 1B - LAWN & DG WITH TREES
- SOIL 2A - PLANTING
- SOIL 2B - PLANTING WITH TREES
- REINFORCING FIBERS
- LBM 1 - LOAD BEARING MODULES
- SSD 1 - FRENCH DRAIN
- EROS 1 - EROSION CONTROL MAT
- IR - ROOT ZONE INSPECTION RISER

SHEET NOTES

1. SEE SHEET L-001 FOR GENERAL LANDSCAPE NOTES, ABBREVIATIONS & SYMBOLS.
2. SEE SHEETS L-050 FOR SOILS LEGEND AND SCHEDULES.

PLANS PREPARED BY:
TETRA TECH, INC.
707 WILSHIRE BLVD. 23RD FLR.
LOS ANGELES, CA 90017
PHONE: (213) 239-8866

HargreavesJones
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CITY OF LOS ANGELES — DEPARTMENT OF PUBLIC WORKS — BUREAU OF ENGINEERING

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SHEET TITLE: SOILS PLAN SHEET 5
PROJECT: SIXTH STREET PARK, ARTS AND RIVER CONNECTIVITY IMPROVEMENTS (PARC)
ADDRESS: SIXTH STREET OVER THE LOS ANGELES RIVER

GARY LEE MOORE, P.E., ENV SP — CITY ENGINEER
DESIGN GROUP — DATE:
LANDSCAPE ARCHITECT: MARY MARGARET JONES — LIC. NO. — 07/11/2022
DESIGNED BY: MARY MARGARET JONES
DRAWN BY: MEGAN ESPOENKO
CHECKED BY: GAVIN MCMILLAN
APPROVED BY: MARY MARGARET JONES

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WORK ORDER NO. E700235D
FILE NO. --
DRAWING NO. L-155
SHEET 111 OF 295 SHEETS

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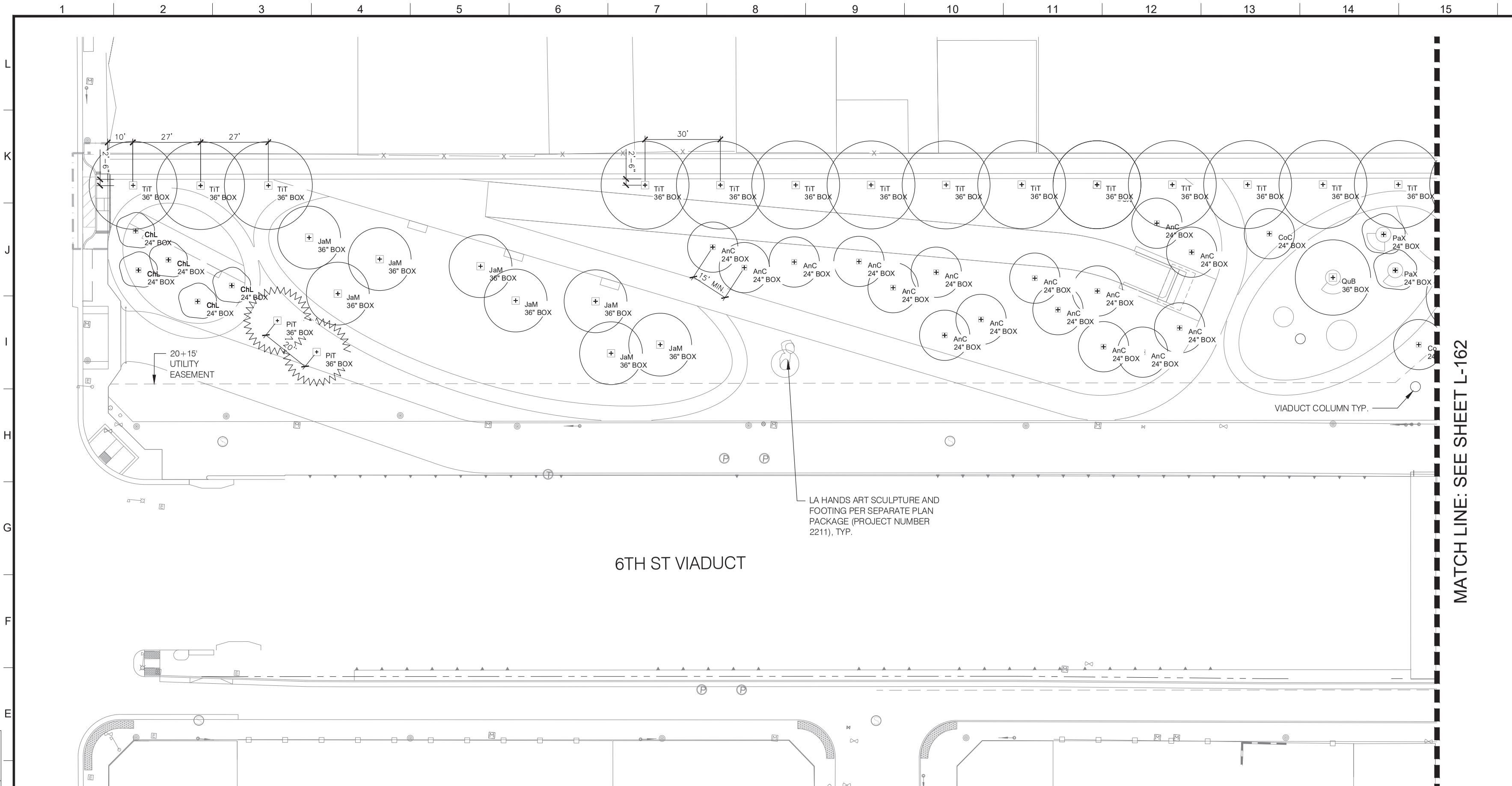

PLANTING PLAN - TREES LEGEND

LABEL	BOTANICAL NAME	COMMON NAME
AnC	*Angophora costata*	ROSE GUM
ArM	*Arbutus 'Marina'*	MARINA STRAWBERRY TREE
ChL	*Chilopsis linearis*	DESERT WILLOW
CoC	*Corymbia citriodora*	LEMON SCENTED GUM
CoP	*Corymbia papuana*	GHOST GUM
EuC	*Eucalyptus cladocalyx*	SUGAR GUM
EuT	*Eucalyptus torquata*	CORAL GUM
PaX	Parkinsonia X 'Desert Museum'	PALO VERDE 'DESERT MUSEUM'

LABEL	BOTANICAL NAME	COMMON NAME
FiR	*Ficus rubiginosa*	RUSTY LEAF FIG
JaM	*Jacaranda mimosifolia*	JACARANDA
PiT	*Pinus torreyana*	TORREY PINE
QuA	*Quercus agrifolia*	COAST LIVE OAK
QuB	*Quercus buckleyi*	TEXAS RED OAK
LaN	*Laurus nobilis*	BAY LAUREL
TiT	*Tipuana tipu*	TIPU

SHEET NOTES

1. SEE SHEET L-001 FOR GENERAL LANDSCAPE NOTES, ABBREVIATIONS AND SYMBOLS.
2. SEE SHEET L-065 FOR TREE SPECIES SCHEDULE

SCALE 1" = 20'

PLANS PREPARED BY:
TETRA TECH, INC.
707 WILSHIRE BLVD, 23RD FLR.
LOS ANGELES, CA 90017
PHONE: (213) 239-8866

HargreavesJones
Hargreaves Jones Landscape Architecture

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DEPARTMENT OF PUBLIC WORKS
BUREAU OF ENGINEERING

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HORIZ. CONTROL: GPS, PID AE 1704, EPOCH 1991.35

SHEET TITLE: TREE PLANTING PLAN SHEET 1
PROJECT: SIXTH STREET PARK, ARTS AND RIVER CONNECTIVITY IMPROVEMENTS (PARC)
ADDRESS: SIXTH STREET OVER THE LOS ANGELES RIVER

GARY LEE MOORE, P.E., ENV SP — CITY ENGINEER
DESIGN GROUP — DATE:
LANDSCAPE ARCHITECT: MARY MARGARET JONES — LIC. NO. — 07/11/2022
DESIGNED BY: MARY MARGARET JONES
DRAWN BY: MEGAN ESOPENKO
CHECKED BY: GAVIN MCMILLAN
APPROVED BY: MARY MARGARET JONES

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INDEX NO.
BUILDING NO.

WORK ORDER NO. E700235D
FILE NO. --
DRAWING NO. L-161
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ENGINEERING
CITY OF LOS ANGELES

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BID SET - NOT FOR CONSTRUCTION - 07/11/2022

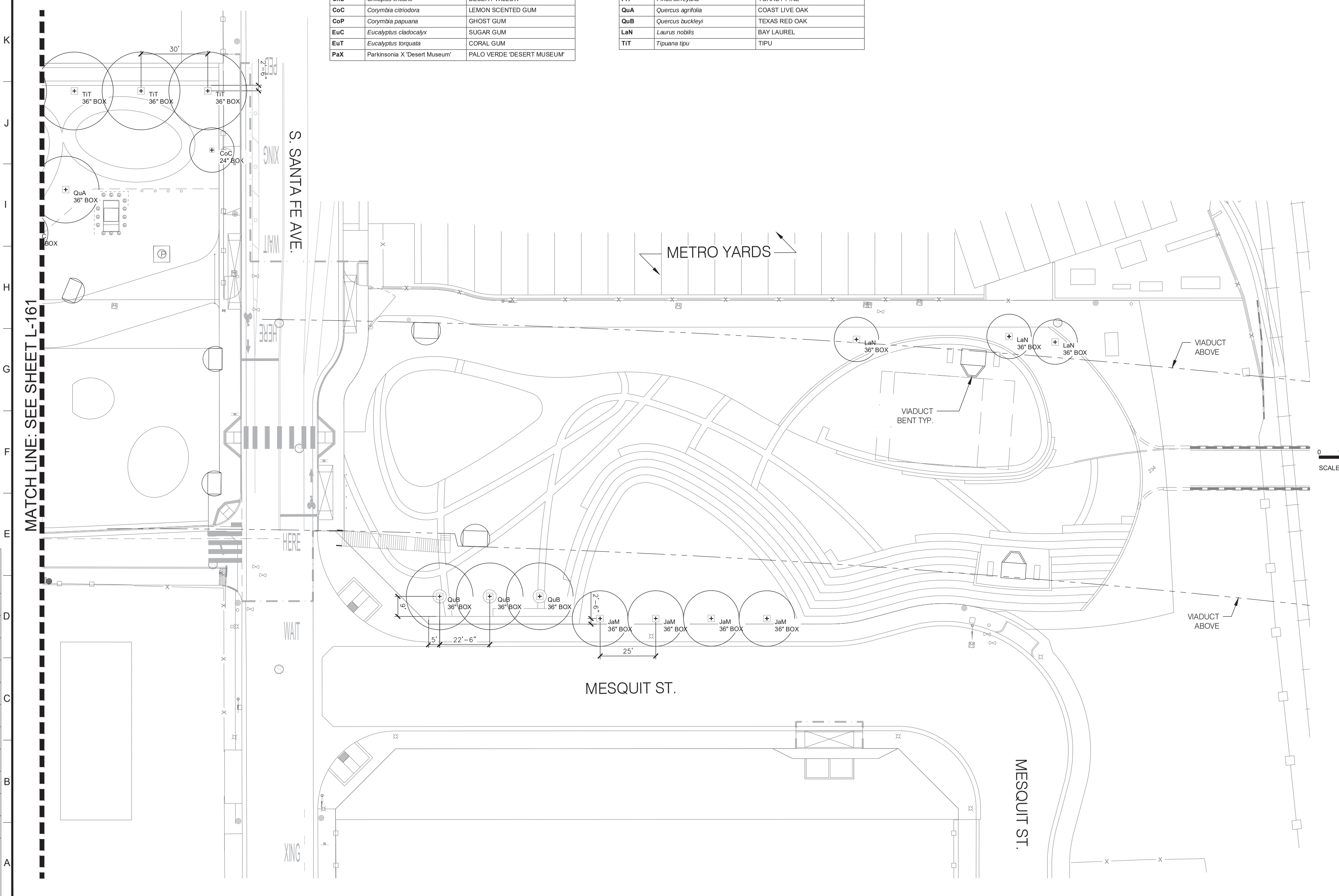
PLANTING PLAN - TREES LEGEND

LABEL	BOTANICAL NAME	COMMON NAME
AnC	*Angophora costata*	ROSE GUM
ArM	*Arbutus 'Marina'*	MARINA STRAWBERRY TREE
ChL	*Chilopsis linearis*	DESERT WILLOW
CoC	*Corymbia citriodora*	LEMON SCENTED GUM
CoP	*Corymbia papuana*	GHOST GUM
EuC	*Eucalyptus cladocalyx*	SUGAR GUM
EuT	*Eucalyptus torquata*	CORAL GUM
PaX	Parkinsonia X 'Desert Museum'	PALO VERDE 'DESERT MUSEUM'

LABEL	BOTANICAL NAME	COMMON NAME
FiR	*Ficus rubiginosa*	RUSTY LEAF FIG
JaM	*Jacaranda mimosifolia*	JACARANDA
PiT	*Pinus torreyana*	TORREY PINE
QuA	*Quercus agrifolia*	COAST LIVE OAK
QuB	*Quercus buckleyi*	TEXAS RED OAK
LaN	*Laurus nobilis*	BAY LAUREL
TiT	*Tipuana tipu*	TIPU

SHEET NOTES

1. SEE SHEET L-001 FOR GENERAL LANDSCAPE NOTES, ABBREVIATIONS AND SYMBOLS.
2. SEE SHEET L-065 FOR TREE SPECIES SCHEDULE



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707 WILSHIRE BLVD. 23RD FLR.
LOS ANGELES, CA 90017
PHONE: (213) 239-8866

HargreavesJones
Hargreaves Jones Landscape Architecture

CITY OF LOS ANGELES — DEPARTMENT OF PUBLIC WORKS — BUREAU OF ENGINEERING

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HORIZ. CONTROL: GPS, PID AE 1704, EPOCH 1991.35

SHEET TITLE: TREE PLANTING PLAN SHEET 2
PROJECT: SIXTH STREET PARK, ARTS AND RIVER CONNECTIVITY IMPROVEMENTS (PARC)
ADDRESS: SIXTH STREET OVER THE LOS ANGELES RIVER

GARY LEE MOORE, P.E., ENV SP — CITY ENGINEER
DESIGN GROUP — DATE:
LANDSCAPE ARCHITECT: MARY MARGARET JONES — LIC. NO. — 07/11/2022
DESIGNED BY: MARY MARGARET JONES
DRAWN BY: MEGAN ESOPENKO
CHECKED BY: GAVIN MCMILLAN
APPROVED BY: MARY MARGARET JONES

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NO.	REVISIONS:	DATE:	BY:

INDEX NO.

BUILDING NO.

ENGINEERING — CITY OF LOS ANGELES

WORK ORDER NO. E700235D
FILE NO. --
DRAWING NO. L-162
SHEET 113 OF 295 SHEETS

2022-07-05 9:00:44 PM - C:\USERS\MESOPENKO\ONEDRIVE - HARGREAVES\SSV 1601 - SIXTH STREET VIADUCT\300_CREATE\310_HA WORKING FILES\06_TECHNICAL\06_100-CD\50_SHEETS\L-160-165 TREE PLANTING PLAN.DWG - MEGAN ESOPENKO

Sheet Version 3.0

BID SET - NOT FOR CONSTRUCTION - 07/11/2022

PLANTING PLAN - TREES LEGEND

LABEL	BOTANICAL NAME	COMMON NAME
AnC	*Angophora costata*	ROSE GUM
ArM	*Arbutus 'Marina'*	MARINA STRAWBERRY TREE
ChL	*Chilopsis linearis*	DESERT WILLOW
CoC	*Corymbia citriodora*	LEMON SCENTED GUM
CoP	*Corymbia papuana*	GHOST GUM
EuC	*Eucalyptus cladocalyx*	SUGAR GUM
EuT	*Eucalyptus torquata*	CORAL GUM
PaX	Parkinsonia X 'Desert Museum'	PALO VERDE 'DESERT MUSEUM'

LABEL	BOTANICAL NAME	COMMON NAME
FiR	*Ficus rubiginosa*	RUSTY LEAF FIG
JaM	*Jacaranda mimosifolia*	JACARANDA
PiT	*Pinus torreyana*	TORREY PINE
QuA	*Quercus agrifolia*	COAST LIVE OAK
QuB	*Quercus buckleyi*	TEXAS RED OAK
LaN	*Laurus nobilis*	BAY LAUREL
TiT	*Tipuana tipu*	TIPU

SHEET NOTES

1. SEE SHEET L-001 FOR GENERAL LANDSCAPE NOTES, ABBREVIATIONS AND SYMBOLS.
2. SEE SHEET L-065 FOR TREE SPECIES SCHEDULE

E 6TH ST.

S. MISSION ST.

VIADUCT ABOVE

VIADUCT BENT TYP.

MATCH LINE: SEE SHEET L-164

SCALE 1" = 20'

PLANS PREPARED BY:
TETRA TECH, INC.
707 WILSHIRE BLVD. 23RD FLR.
LOS ANGELES, CA 90017
PHONE: (213) 239-8866

Hargreaves Jones
Hargreaves Jones Landscape Architecture

CITY OF LOS ANGELES DEPARTMENT OF PUBLIC WORKS BUREAU OF ENGINEERING

GARY LEE MOORE, P.E., ENV SP — CITY ENGINEER — DATE

LANDSCAPE ARCHITECT: MARY MARGARET JONES — LIC. NO. — 07/11/2022

DESIGNED BY: MARY MARGARET JONES

DRAWN BY: MEGAN ESOPENKO

CHECKED BY: GAVIN MCMILLAN

APPROVED BY: MARY MARGARET JONES

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ENGINEERING — CITY OF LOS ANGELES

NO. | REVISIONS | DATE | BY

BUILDING NO.

INDEX NO.

SHEET TITLE: TREE PLANTING PLAN SHEET 3

PROJECT: SIXTH STREET PARK, ARTS AND RIVER CONNECTIVITY IMPROVEMENTS (PARC)

ADDRESS: SIXTH STREET OVER THE LOS ANGELES RIVER

WORK ORDER NO. E700235D

FILE NO. –

DRAWING NO. L-163

SHEET 114 OF 295 SHEETS

BID SET - NOT FOR CONSTRUCTION - 07/11/2022

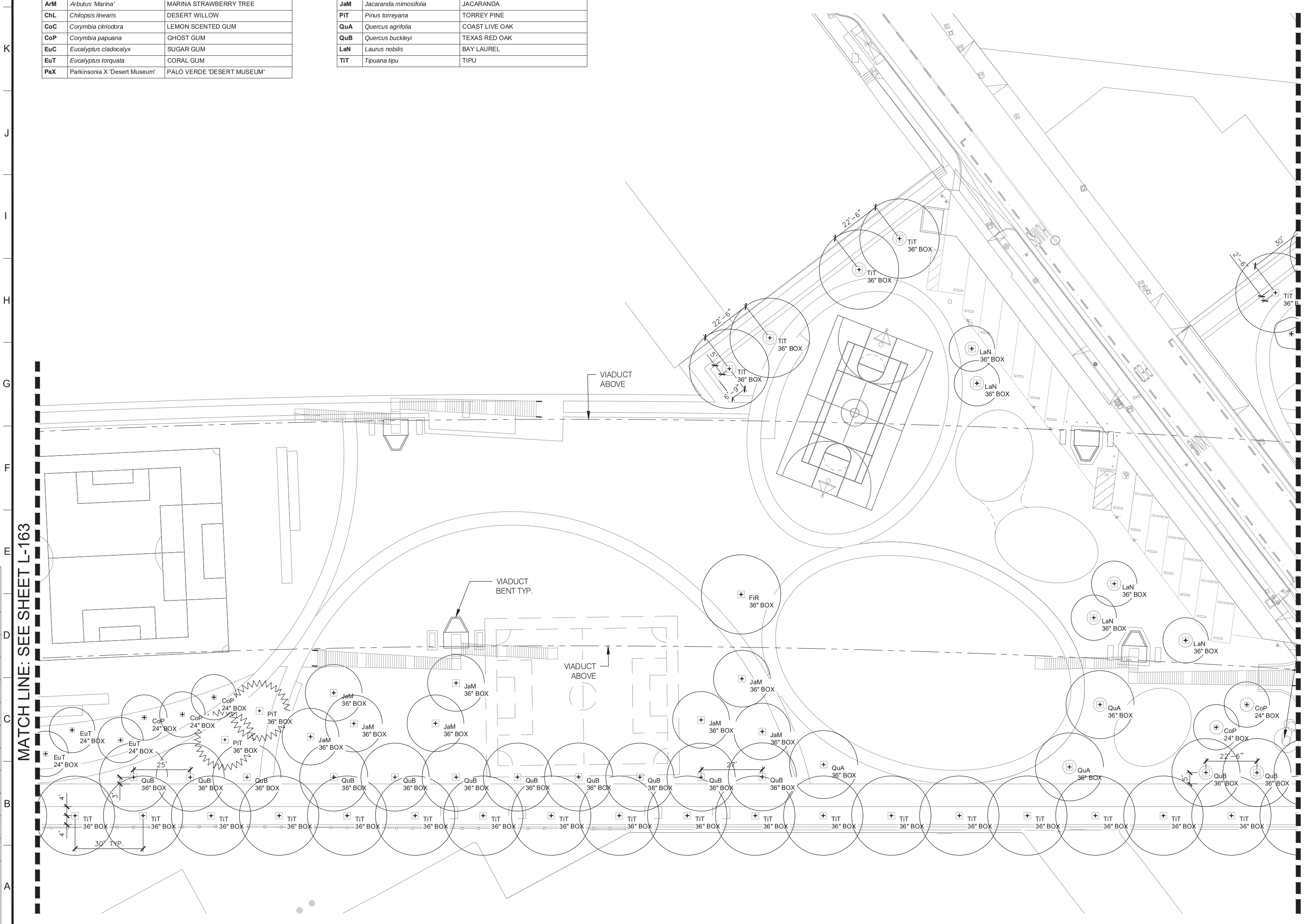
PLANTING PLAN - TREES LEGEND

LABEL	BOTANICAL NAME	COMMON NAME
AnC	*Angophora costata*	ROSE GUM
ArM	*Arbutus 'Marina'*	MARINA STRAWBERRY TREE
ChL	*Chilopsis linearis*	DESERT WILLOW
CoC	*Corymbia citriodora*	LEMON SCENTED GUM
CoP	*Corymbia papuana*	GHOST GUM
EuC	*Eucalyptus cladocalyx*	SUGAR GUM
EuT	*Eucalyptus torquata*	CORAL GUM
PaX	Parkinsonia X 'Desert Museum'	PALO VERDE 'DESERT MUSEUM'

LABEL	BOTANICAL NAME	COMMON NAME
FiR	*Ficus rubiginosa*	RUSTY LEAF FIG
JaM	*Jacaranda mimosifolia*	JACARANDA
PiT	*Pinus torreyana*	TORREY PINE
QuA	*Quercus agrifolia*	COAST LIVE OAK
QuB	*Quercus buckleyi*	TEXAS RED OAK
LaN	*Laurus nobilis*	BAY LAUREL
TiT	*Tipuana tipu*	TIPU

SHEET NOTES

1. SEE SHEET L-001 FOR GENERAL LANDSCAPE NOTES, ABBREVIATIONS AND SYMBOLS.
2. SEE SHEET L-065 FOR TREE SPECIES SCHEDULE



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CITY OF LOS ANGELES — DEPARTMENT OF PUBLIC WORKS — BUREAU OF ENGINEERING

VERT. CONTROL: BM 12-04070, 1929 (NGVD29) - 1985 ADJUSTMENT
HORIZ. CONTROL: GPS, PID AE 1704, EPOCH 1991.35

SHEET TITLE: TREE PLANTING PLAN SHEET 4

PROJECT: SIXTH STREET PARK, ARTS AND RIVER CONNECTIVITY IMPROVEMENTS (PARC)

ADDRESS: SIXTH STREET OVER THE LOS ANGELES RIVER

GARY LEE MOORE, P.E., ENV SP — CITY ENGINEER

DESIGN GROUP — DATE:

LANDSCAPE ARCHITECT: MARY MARGARET JONES — LIC. NO. — 07/11/2022

DESIGNED BY: MARY MARGARET JONES

DRAWN BY: MEGAN ESOPENKO

CHECKED BY: GAVIN MCMILLAN

APPROVED BY: MARY MARGARET JONES

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INDEX NO.

BUILDING NO.

WORK ORDER NO. E700235D

FILE NO. --

DRAWING NO. L-164

SHEET 115 OF 295 SHEETS

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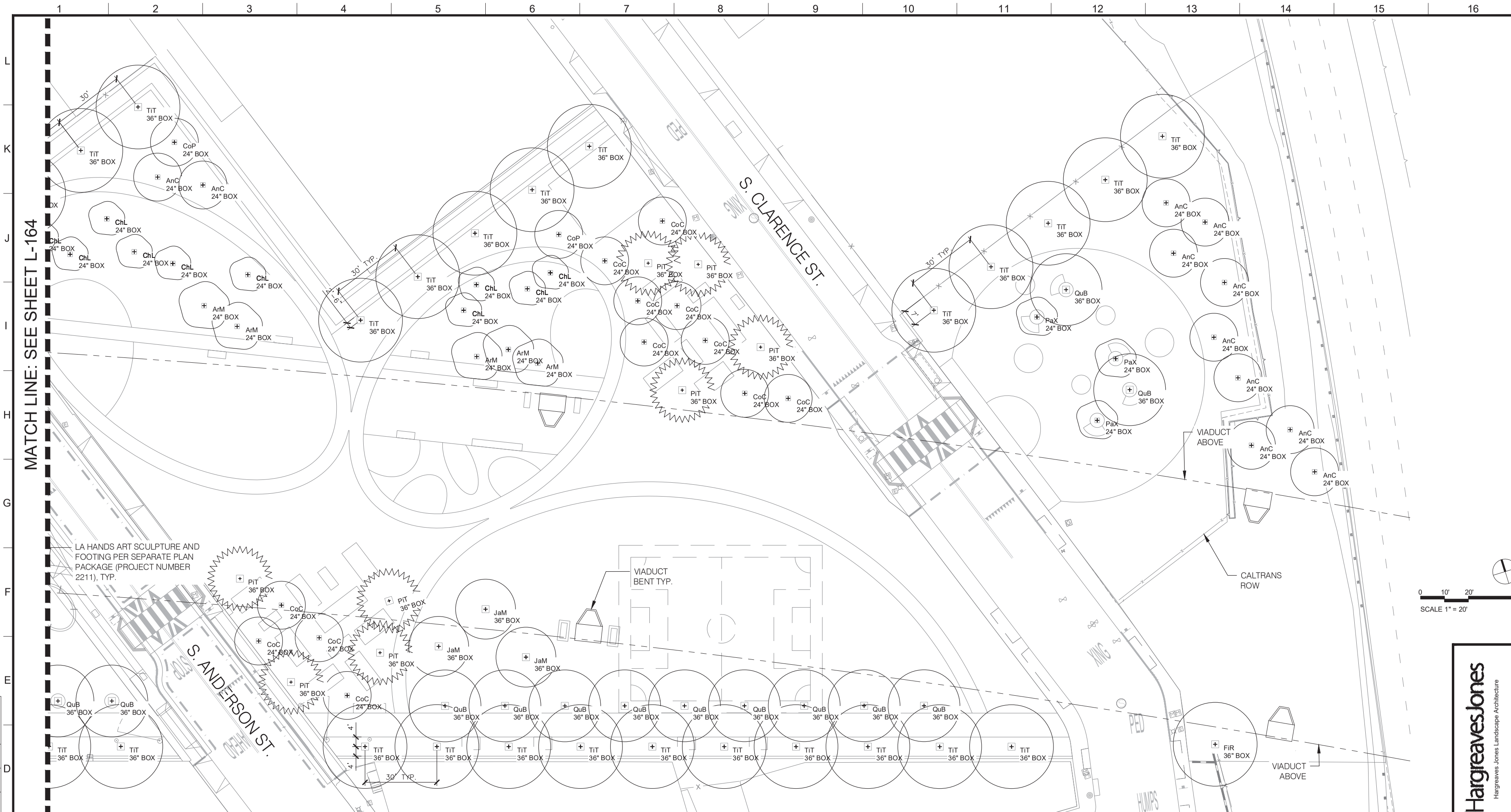

PLANTING PLAN - TREES LEGEND

LABEL	BOTANICAL NAME	COMMON NAME
AnC	*Angophora costata*	ROSE GUM
ArM	*Arbutus 'Marina'*	MARINA STRAWBERRY TREE
ChL	*Chilopsis linearis*	DESERT WILLOW
CoC	*Corymbia citriodora*	LEMON SCENTED GUM
CoP	*Corymbia papuana*	GHOST GUM
EuC	*Eucalyptus cladocalyx*	SUGAR GUM
EuT	*Eucalyptus torquata*	CORAL GUM
PaX	Parkinsonia X 'Desert Museum'	PALO VERDE 'DESERT MUSEUM'

LABEL	BOTANICAL NAME	COMMON NAME
FiR	*Ficus rubiginosa*	RUSTY LEAF FIG
JaM	*Jacaranda mimosifolia*	JACARANDA
PiT	*Pinus torreyana*	TORREY PINE
QuA	*Quercus agrifolia*	COAST LIVE OAK
QuB	*Quercus buckleyi*	TEXAS RED OAK
LaN	*Laurus nobilis*	BAY LAUREL
TiT	*Tipuana tipu*	TIPU

SHEET NOTES

1. SEE SHEET L-001 FOR GENERAL LANDSCAPE NOTES, ABBREVIATIONS AND SYMBOLS.
2. SEE SHEET L-065 FOR TREE SPECIES SCHEDULE

PLANS PREPARED BY:
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VERT. CONTROL: BM 12-04070, 1929 (NGVD29) - 1985 ADJUSTMENT
HORIZ. CONTROL: GPS, PID AE 1704, EPOCH 1991.35

SHEET TITLE: TREE PLANTING PLAN SHEET 5
PROJECT: SIXTH STREET PARK, ARTS AND RIVER CONNECTIVITY IMPROVEMENTS (PARC)
ADDRESS: SIXTH STREET OVER THE LOS ANGELES RIVER

GARY LEE MOORE, P.E., ENV SP — CITY ENGINEER
DESIGN GROUP
LANDSCAPE ARCHITECT: MARY MARGARET JONES — LIC. NO. — DATE: 07/11/2022
DESIGNED BY: MARY MARGARET JONES
DRAWN BY: MEGAN ESOPENKO
CHECKED BY: GAVIN MCMILLAN
APPROVED BY: MARY MARGARET JONES

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ENGINEERING — CITY OF LOS ANGELES

WORK ORDER NO. E700235D
FILE NO. --
DRAWING NO. L-165
SHEET 116 OF 295 SHEETS

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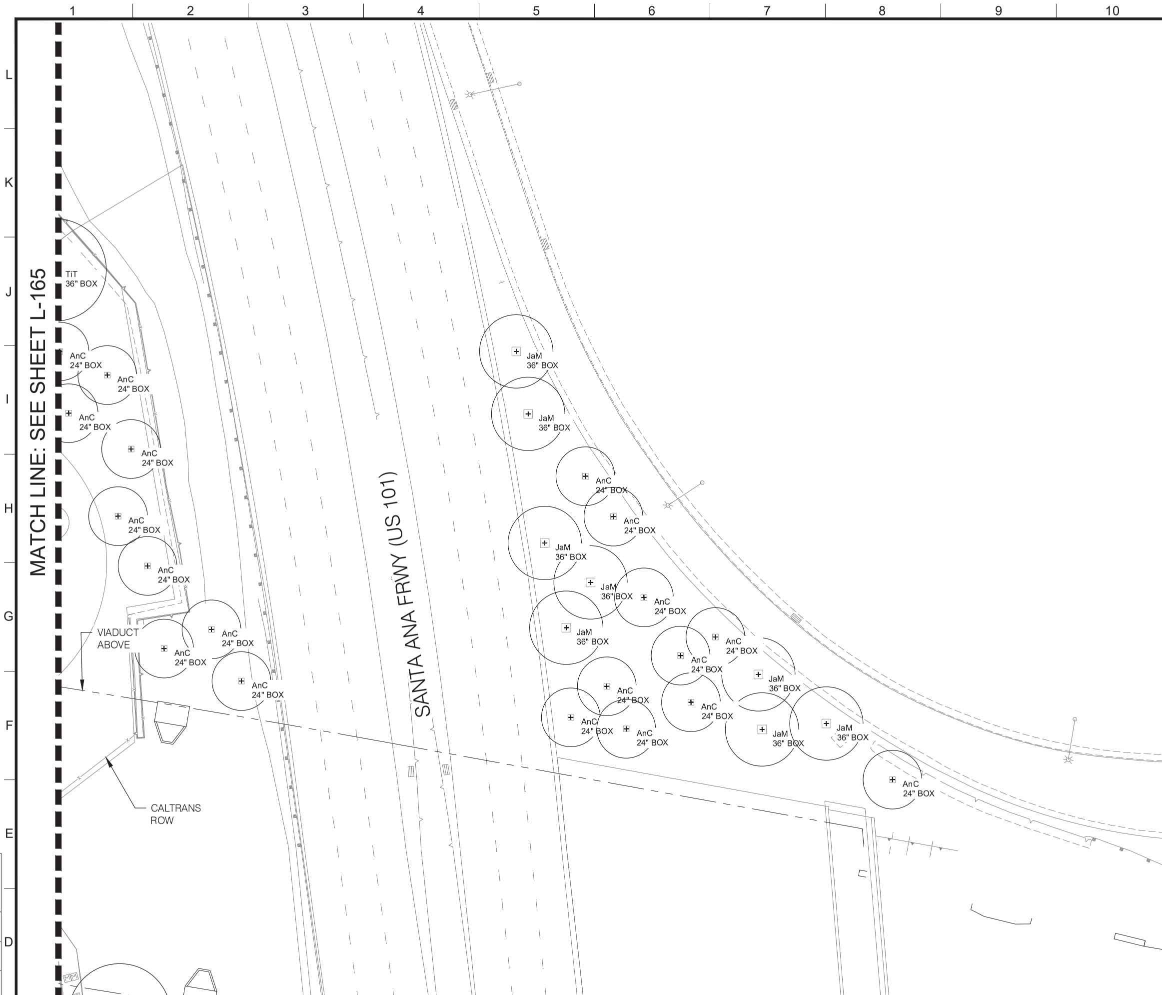

PLANTING PLAN - TREES LEGEND

LABEL	BOTANICAL NAME	COMMON NAME
AnC	*Angophora costata*	ROSE GUM
ArM	*Arbutus 'Marina'*	MARINA STRAWBERRY TREE
ChL	*Chilopsis linearis*	DESERT WILLOW
CoC	*Corymbia citriodora*	LEMON SCENTED GUM
CoP	*Corymbia papuana*	GHOST GUM
EuC	*Eucalyptus cladocalyx*	SUGAR GUM
EuT	*Eucalyptus torquata*	CORAL GUM
PaX	Parkinsonia X 'Desert Museum'	PALO VERDE 'DESERT MUSEUM'

LABEL	BOTANICAL NAME	COMMON NAME
FiR	*Ficus rubiginosa*	RUSTY LEAF FIG
JaM	*Jacaranda mimosifolia*	JACARANDA
PiT	*Pinus torreyana*	TORREY PINE
QuA	*Quercus agrifolia*	COAST LIVE OAK
QuB	*Quercus buckleyi*	TEXAS RED OAK
LaN	*Laurus nobilis*	BAY LAUREL
TiT	*Tipuana tipu*	TIPU

SHEET NOTES

1. SEE SHEET L-001 FOR GENERAL LANDSCAPE NOTES, ABBREVIATIONS AND SYMBOLS.
2. SEE SHEET L-065 FOR TREE SPECIES SCHEDULE

PLANS PREPARED BY:
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PHONE: (213) 239-8866

HargreavesJones
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CITY OF LOS ANGELES DEPARTMENT OF PUBLIC WORKS BUREAU OF ENGINEERING

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HORIZ. CONTROL: GPS, PID AE 1704, EPOCH 1991.35

SHEET TITLE: TREE PLANTING PLAN SHEET 5

PROJECT: SIXTH STREET PARK, ARTS AND RIVER CONNECTIVITY IMPROVEMENTS (PARC)

ADDRESS: SIXTH STREET OVER THE LOS ANGELES RIVER

GARY LEE MOORE, P.E., ENV SP — CITY ENGINEER
DESIGN GROUP — DATE:
LANDSCAPE ARCHITECT: MARY MARGARET JONES — LIC. NO. — 07/11/2022
DESIGNED BY: MARY MARGARET JONES
DRAWN BY: MEGAN ESOPENKO
CHECKED BY: GAVIN MCMILLAN
APPROVED BY: MARY MARGARET JONES

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ENGINEERING — CITY OF LOS ANGELES

WORK ORDER NO. E700235D
FILE NO. --
DRAWING NO. L-166
SHEET 117 OF 295 SHEETS

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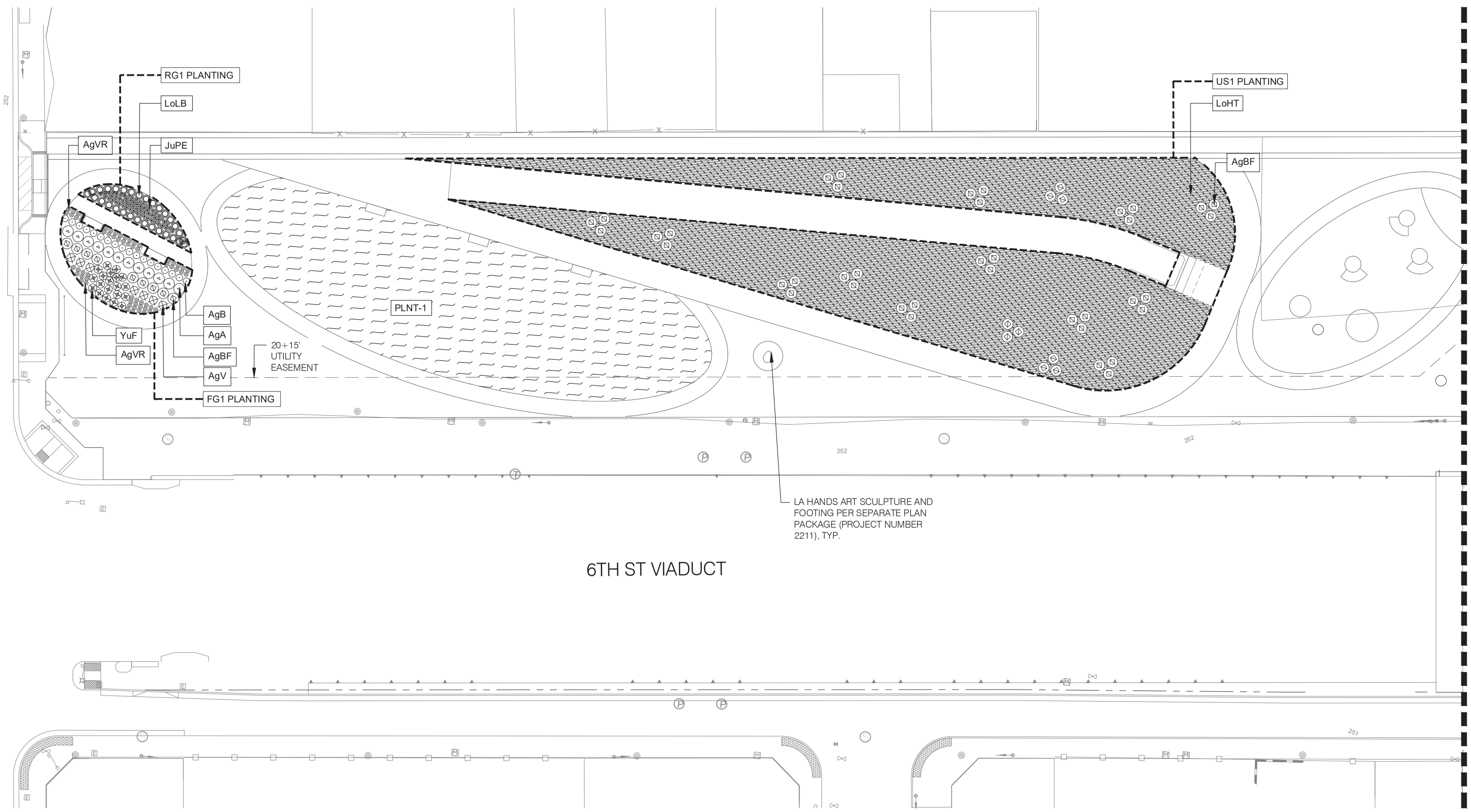

PLANTING PLAN - SOFTSCAPE LEGEND

PLNT 1 - LAWN REINFORCED

LABEL	BOTANICAL NAME	COMMON NAME
FG 1	**FEATURE GARDEN 1**	
AgVR	*Agave victoriae-reginae*	QUEEN VICTORIA AGAVE
AgB	*Agave bracteosa*	SPIDER AGAVE
AgA	*Agave attenuata*	FOXTAIL AGAVE
AgBF	*Agave 'Blue Flame'*	BLUE FLAME AGAVE
AgV	*Agave desmettiana 'Variegata'*	VARIEGATA
YuF	*Yucca filamentosa*	ADAMS NEEDLE
RG 1	**RAIN GARDEN 1**	
JuPE	*Juncus patens 'Elk Blue'*	ELK BLUE
LoLB	*Lomandra longifolia 'Breeze'*	DWARF MAT RUSH
US 1	**UPLAND SLOPE 1**	
LoHT	*Lomandra hystrix 'Tropicbelle'*	TROPIC BELLE MAT RUSH
AgBF	*Agave 'Blue Flame'*	BLUE FLAME AGAVE

SHEET NOTES

1. SEE SHEET L-001 FOR GENERAL LANDSCAPE NOTES, ABBREVIATIONS & SYMBOLS.
2. SEE SHEETS L-060, L-065, and L-066 FOR SOFTSCAPE SCHEDULE, TREE SPECIES SCHEDULE AND SOFTSCAPE SPECIES SCHEDULE.

PLANS PREPARED BY:

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SHEET TITLE: UNDERSTORY PLANTING PLAN SHEET 1

PROJECT: SIXTH STREET PARK, ARTS AND RIVER CONNECTIVITY IMPROVEMENTS (PARC)

ADDRESS: SIXTH STREET OVER THE LOS ANGELES RIVER

GARY LEE MOORE, P.E., ENV SP — CITY ENGINEER — DATE:

DESIGN GROUP
LANDSCAPE ARCHITECT: MARY MARGARET JONES — LIC. NO. — 07/11/2022
DESIGNED BY: MARY MARGARET JONES
DRAWN BY: MEGAN ESOPENKO
CHECKED BY: GAVIN MCMILLAN
APPROVED BY: MARY MARGARET JONES

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ENGINEERING — CITY OF LOS ANGELES

WORK ORDER NO. E700235D
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DRAWING NO. L-171
SHEET 118 OF 295 SHEETS

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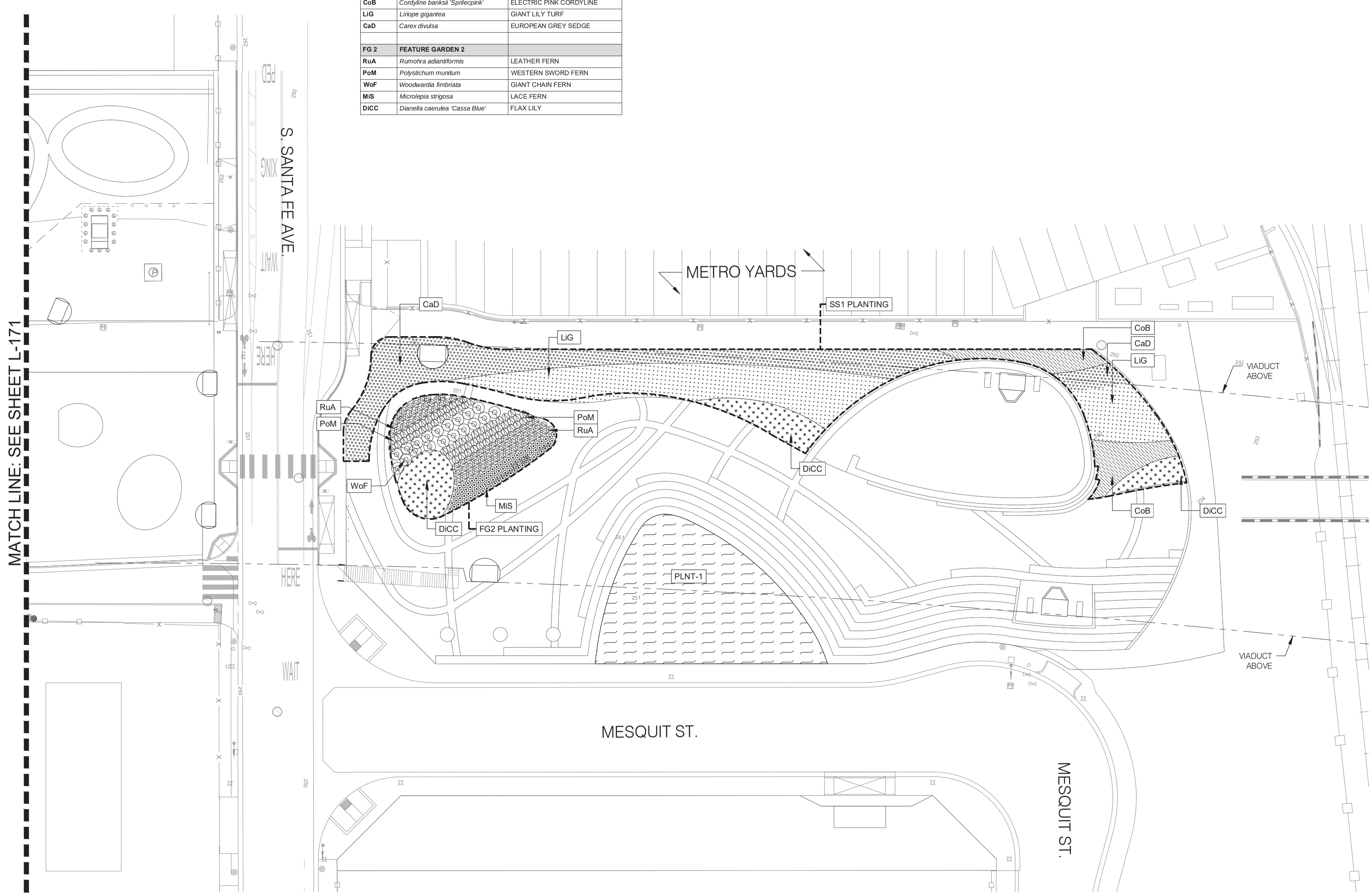
PLANTING PLAN - SOFTSCAPE LEGEND

PLNT 1 - LAWN REINFORCED

LABEL	BOTANICAL NAME	COMMON NAME
SS 1	SHADY SLOPE 1	
DiCC	*Dianella caerulea 'Cassa Blue'*	FLAX LILY
CoB	*Cordyline banksii 'Sprilecpink'*	ELECTRIC PINK CORDYLINE
LiG	*Liriope gigantea*	GIANT LILY TURF
CaD	*Carex divulsa*	EUROPEAN GREY SEDGE
FG 2	FEATURE GARDEN 2	
RuA	*Rumohra adiantiformis*	LEATHER FERN
PoM	*Polystichum munitum*	WESTERN SWORD FERN
WoF	*Woodwardia fimbriata*	GIANT CHAIN FERN
MiS	*Microlepia strigosa*	LACE FERN
DiCC	*Dianella caerulea 'Cassa Blue'*	FLAX LILY

SHEET NOTES

1. SEE SHEET L-001 FOR GENERAL LANDSCAPE NOTES, ABBREVIATIONS & SYMBOLS.
2. SEE SHEETS L-060, L-065, and L-066 FOR SOFTSCAPE SCHEDULE, TREE SPECIES SCHEDULE AND SOFTSCAPE SPECIES SCHEDULE.



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SHEET TITLE: UNDERSTORY PLANTING PLAN SHEET 2
PROJECT: SIXTH STREET PARK, ARTS AND RIVER CONNECTIVITY IMPROVEMENTS (PARC)
ADDRESS: SIXTH STREET OVER THE LOS ANGELES RIVER

GARY LEE MOORE, P.E., ENV SP — CITY ENGINEER
DESIGN GROUP — DATE:
LANDSCAPE ARCHITECT: MARY MARGARET JONES — LIC. NO. — 07/11/2022
DESIGNED BY: MARY MARGARET JONES
DRAWN BY: MEGAN ESOPENKO
CHECKED BY: GAVIN MCMILLAN
APPROVED BY: MARY MARGARET JONES

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ENGINEERING — CITY OF LOS ANGELES

WORK ORDER NO. E700235D
FILE NO. --
DRAWING NO. L-172
SHEET 119 OF 295 SHEETS

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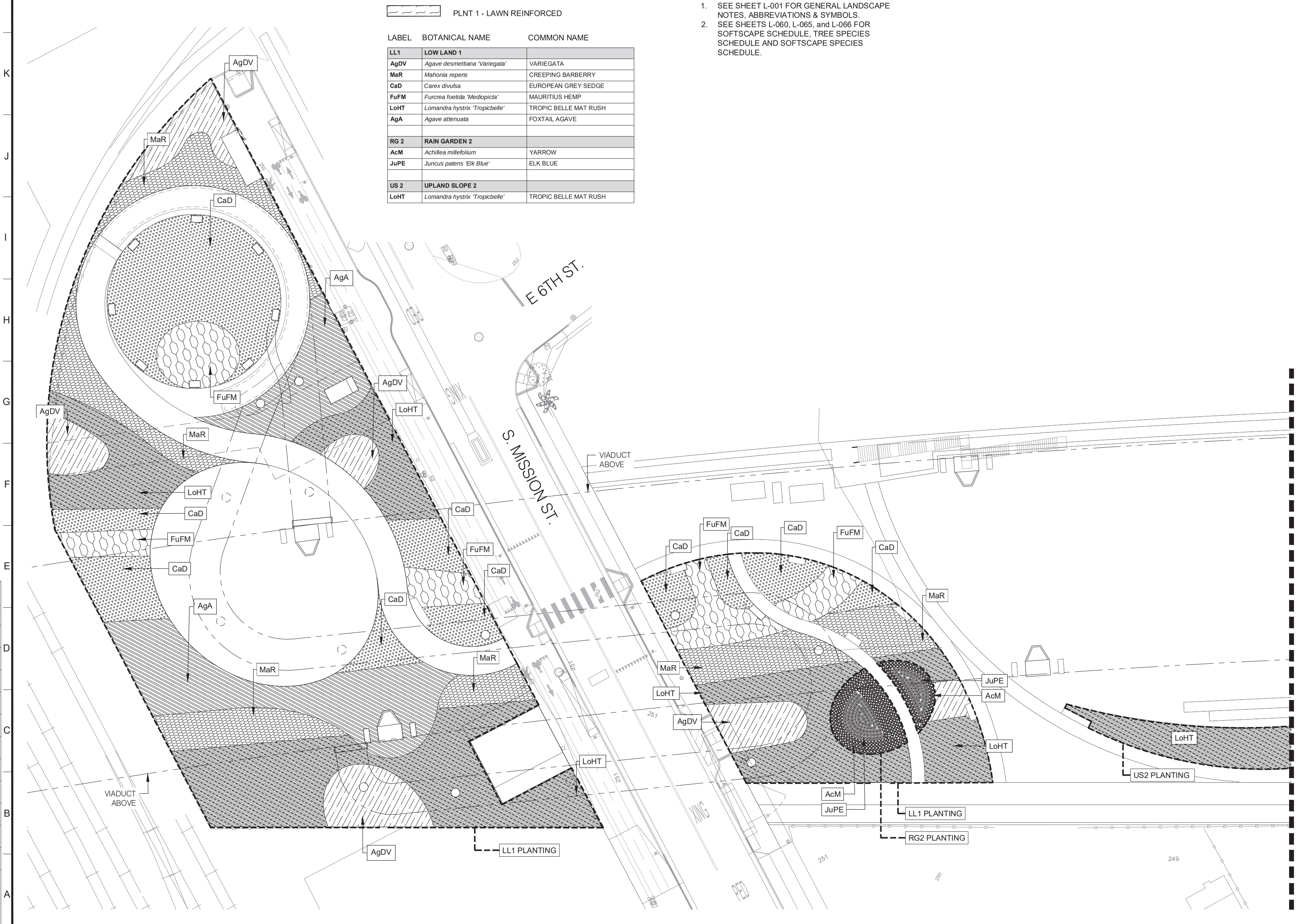

PLANTING PLAN - SOFTSCAPE LEGEND

PLNT 1 - LAWN REINFORCED

LABEL	BOTANICAL NAME	COMMON NAME
LL1	LOW LAND 1	
AgDV	*Agave desmettiana 'Variegata'*	VARIEGATA
MaR	*Mahonia repens*	CREEPING BARBERRY
CaD	*Carex divulsa*	EUROPEAN GREY SEDGE
FuFM	*Furcrea foetida 'Mediopicta'*	MAURITIUS HEMP
LoHT	*Lomandra hystrix 'Tropicbelle'*	TROPIC BELLE MAT RUSH
AgA	*Agave attenuata*	FOXTAIL AGAVE
RG 2	RAIN GARDEN 2	
AcM	*Achillea millefolium*	YARROW
JuPE	*Juncus patens 'Elk Blue'*	ELK BLUE
US 2	UPLAND SLOPE 2	
LoHT	*Lomandra hystrix 'Tropicbelle'*	TROPIC BELLE MAT RUSH

SHEET NOTES

1. SEE SHEET L-001 FOR GENERAL LANDSCAPE NOTES, ABBREVIATIONS & SYMBOLS.
2. SEE SHEETS L-060, L-065, and L-066 FOR SOFTSCAPE SCHEDULE, TREE SPECIES SCHEDULE AND SOFTSCAPE SPECIES SCHEDULE.

PLANS PREPARED BY:
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PHONE: (213) 239-8866

HargreavesJones
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CITY OF LOS ANGELES — DEPARTMENT OF PUBLIC WORKS — BUREAU OF ENGINEERING

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SHEET TITLE: UNDERSTORY PLANTING PLAN SHEET 3
PROJECT: SIXTH STREET PARK, ARTS AND RIVER CONNECTIVITY IMPROVEMENTS (PARC)
ADDRESS: SIXTH STREET OVER THE LOS ANGELES RIVER

GARY LEE MOORE, P.E., ENV SP — CITY ENGINEER
DESIGN GROUP — DATE:
LANDSCAPE ARCHITECT: MARY MARGARET JONES — LIC. NO. — 07/11/2022
DESIGNED BY: MARY MARGARET JONES
DRAWN BY: MEGAN ESOPENKO
CHECKED BY: GAVIN MCMILLAN
APPROVED BY: MARY MARGARET JONES

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ENGINEERING — CITY OF LOS ANGELES

WORK ORDER NO. E700235D
FILE NO. --
DRAWING NO. L-173
SHEET 120 OF 295 SHEETS

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BID SET - NOT FOR CONSTRUCTION - 07/11/2022

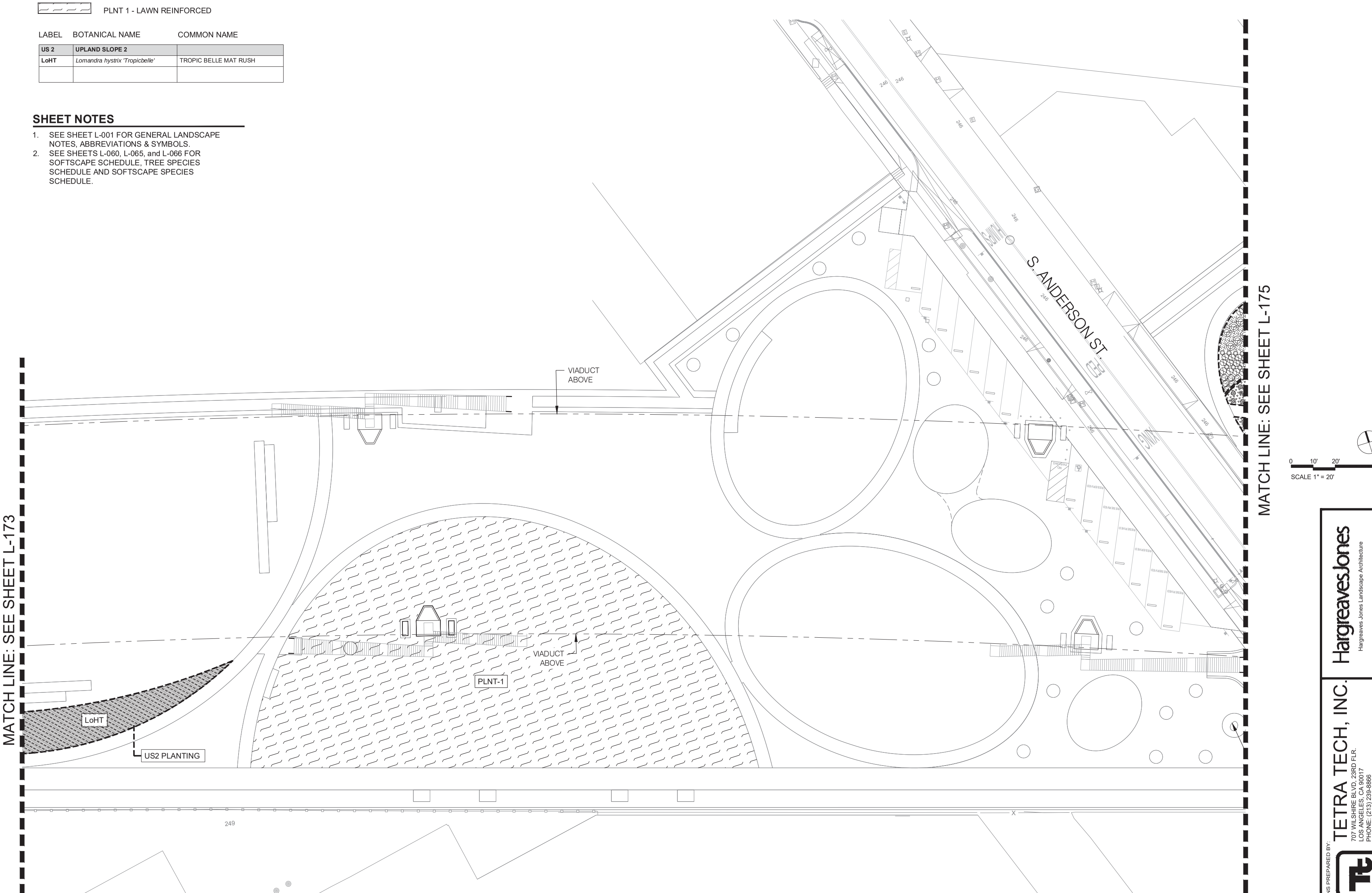
PLANTING PLAN - SOFTSCAPE LEGEND

PLNT 1 - LAWN REINFORCED

LABEL	BOTANICAL NAME	COMMON NAME
US 2	**UPLAND SLOPE 2**	
LoHT	*Lomandra hystrix 'Tropicbelle'*	TROPIC BELLE MAT RUSH

SHEET NOTES

1. SEE SHEET L-001 FOR GENERAL LANDSCAPE NOTES, ABBREVIATIONS & SYMBOLS.
2. SEE SHEETS L-060, L-065, and L-066 FOR SOFTSCAPE SCHEDULE, TREE SPECIES SCHEDULE AND SOFTSCAPE SPECIES SCHEDULE.



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PHONE: (213) 239-8866

Hargreaves Jones
Hargreaves Jones Landscape Architecture

CITY OF LOS ANGELES — DEPARTMENT OF PUBLIC WORKS — BUREAU OF ENGINEERING

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SHEET TITLE: UNDERSTORY PLANTING PLAN SHEET 4
PROJECT: SIXTH STREET PARK, ARTS AND RIVER CONNECTIVITY IMPROVEMENTS (PARC)
ADDRESS: SIXTH STREET OVER THE LOS ANGELES RIVER

WORK ORDER NO. E700235D
FILE NO. --
DRAWING NO. L-174
SHEET 121 OF 295 SHEETS

GARY LEE MOORE, P.E., ENV SP — CITY ENGINEER
DESIGN GROUP — DATE:
LANDSCAPE ARCHITECT: MARY MARGARET JONES — LIC. NO. — 07/11/2022
DESIGNED BY: MARY MARGARET JONES
DRAWN BY: MEGAN ESOPENKO
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APPROVED BY: MARY MARGARET JONES

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BUILDING NO.

ENGINEERING CITY OF LOS ANGELES

2022-07-05 9:01:35 PM - C:\USERS\MESOPENKO\ONEDRIVE - HARGREAVES\SSV 1601 - SIXTH STREET VIADUCT\300_CREATE\310_HA WORKING FILES\06_TECHNICAL\06_100-CD\50_SHEETS\L-170-175 UNDERSTORY PLANTING PLAN.DWG - MEGAN ESOPENKO

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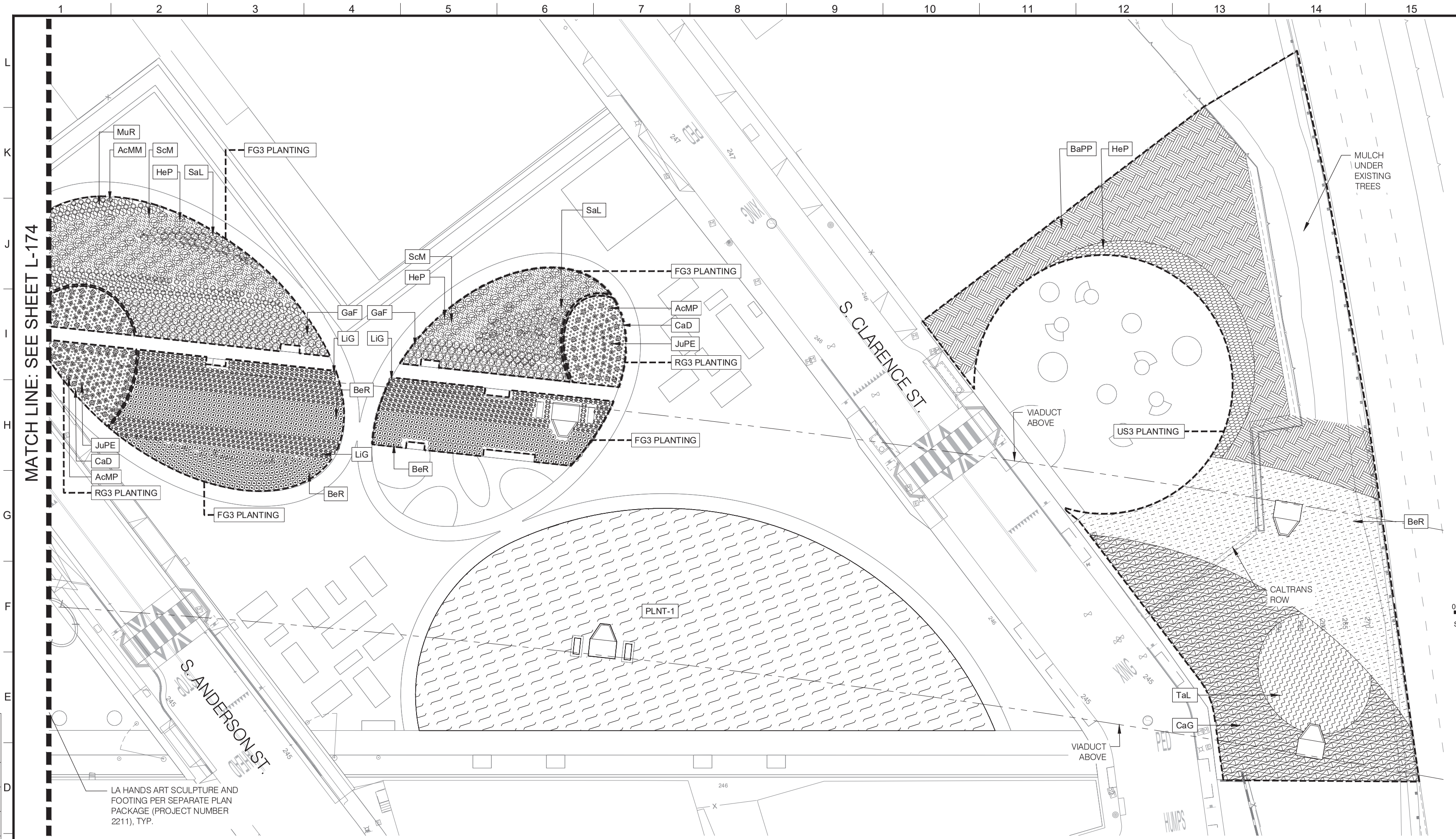

PLANTING PLAN - SOFTSCAPE LEGEND

PLNT 1 - LAWN REINFORCED

LABEL	BOTANICAL NAME	COMMON NAME
FG 3	FEATURE GARDEN 3	
AcMM	*Achillea millefolium 'Moonshine'*	MOONSHINE YARROW
MuR	*Muhlenbergia rigens*	DEER GRASS
ScM	*Senecio mandraliscae*	BLUE CHALK
HeP	*Hesperaloe parviflora*	RED YUCCA
SaL	*Salvia leucantha 'Santa Barbara'*	SANTA BARBARA SAGE
GaF	*Galvezia 'Firecracker'*	FIRECRACKER SNAPDRAGON
LiG	*Liriope gigantea*	GIANT LILY TURF
BeR	*Berberis repens*	CREEPING BARBERRY

LABEL	BOTANICAL NAME	COMMON NAME
RG 3	RAIN GARDEN 3	
AcMP	*Achillea millefolium 'Paprika'*	PAPRIKA YARROW
CaD	*Carex divulsa*	EUROPEAN GREY SEDGE
JuPE	*Juncus patens 'Elk Blue'*	ELK BLUE
US 3	UPLAND SLOPE 3	
BaPP	*Baccharis pilularis 'Pigeon Point'*	DWARF COYOTE BRUSH
HeP	*Hesperaloe parviflora*	RED YUCCA
BeR	*Berberis repens*	CREEPING BARBERRY
CaG	*Carissa macrocarpa 'Green Carpet'*	GREEN CARPET
TaL	*Tagetes lemmonii*	MEXICAN MARIGOLD

SHEET NOTES

1. SEE SHEET L-001 FOR GENERAL LANDSCAPE NOTES, ABBREVIATIONS & SYMBOLS.
2. SEE SHEETS L-060, L-065, and L-066 FOR SOFTSCAPE SCHEDULE, TREE SPECIES SCHEDULE AND SOFTSCAPE SPECIES SCHEDULE.

PLANS PREPARED BY:
TETRA TECH, INC.
707 WILSHIRE BLVD. 23RD FLR.
LOS ANGELES, CA 90017
PHONE: (213) 239-8866

HargreavesJones
Hargreaves Jones Landscape Architecture

CITY OF LOS ANGELES — DEPARTMENT OF PUBLIC WORKS — BUREAU OF ENGINEERING

VERT. CONTROL: BM 12-04070, 1929 (NGVD29) - 1985 ADJUSTMENT
HORIZ. CONTROL: GPS, PID AE 1704, EPOCH 1991.35

SHEET TITLE: UNDERSTORY PLANTING PLAN SHEET 5
PROJECT: SIXTH STREET PARK, ARTS AND RIVER CONNECTIVITY IMPROVEMENTS (PARC)
ADDRESS: SIXTH STREET OVER THE LOS ANGELES RIVER

GARY LEE MOORE, P.E., ENV SP — CITY ENGINEER
DESIGN GROUP
LANDSCAPE ARCHITECT: MARY MARGARET JONES LIC. NO. DATE: 07/11/2022
DESIGNED BY: MARY MARGARET JONES
DRAWN BY: MEGAN ESOPENKO
CHECKED BY: GAVIN MCMILLAN
APPROVED BY: MARY MARGARET JONES

THIS PLAN WAS ELECTRONICALLY SIGNED AND STAMPED.

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INDEX NO.
BUILDING NO.

WORK ORDER NO. E700235D
FILE NO. --
DRAWING NO. L-175
SHEET 122 OF 295 SHEETS

ENGINEERING CITY OF LOS ANGELES

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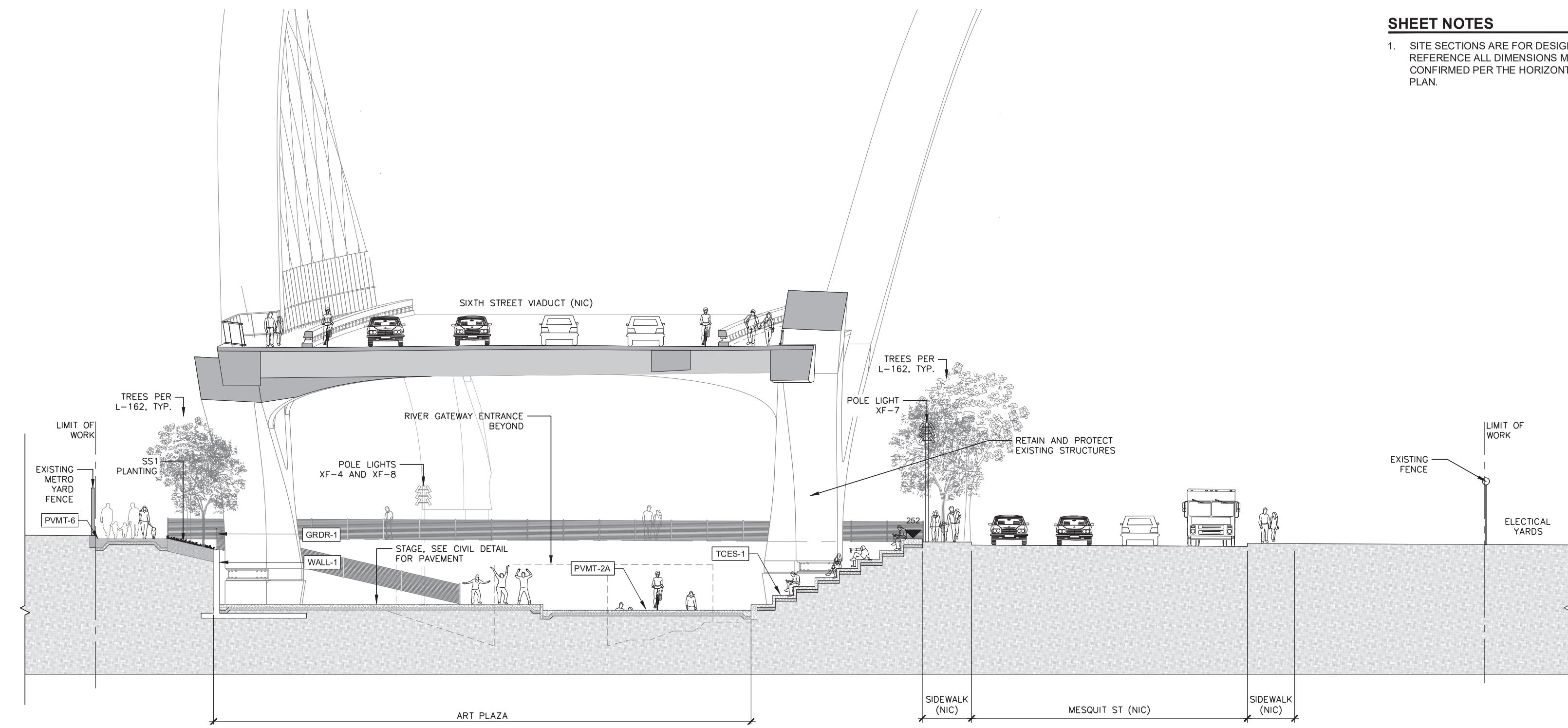
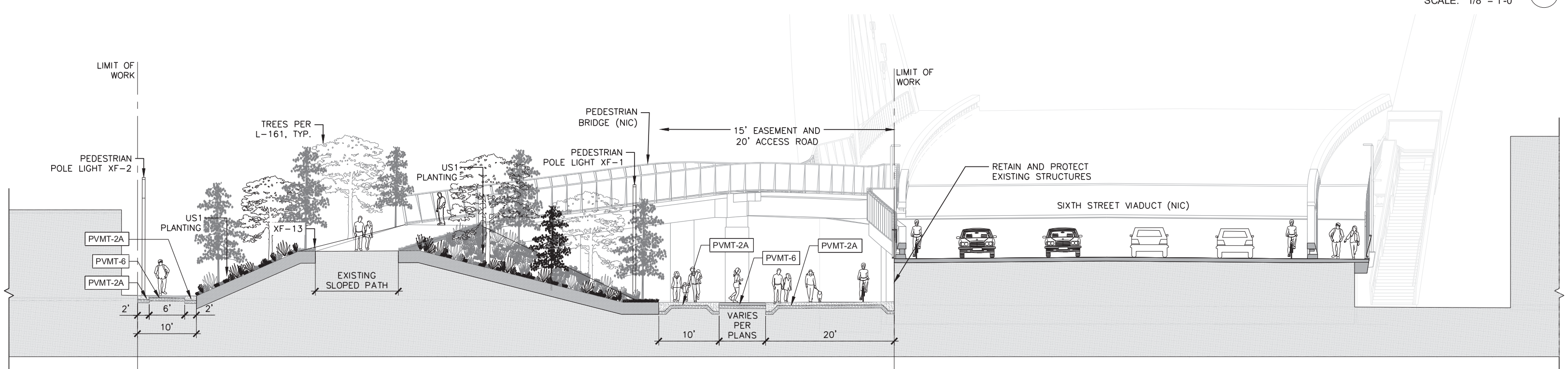
SHEET NOTES

1. SITE SECTIONS ARE FOR DESIGN INTENT. REFERENCE ALL DIMENSIONS MUST BE CONFIRMED PER THE HORIZONTAL CONTROL PLAN.



ARTS PLAZA SITE SECTION (02)

SCALE: 1/8" = 1'-0"



WEST PARK RAMP SITE SECTION (01)

SCALE: 1/8" = 1'-0"

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ENGINEERING — CITY OF LOS ANGELES

VERT. CONTROL: BM 12-04070, 1929 (NGVD29) - 1985 ADJUSTMENT
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SHEET TITLE: SITE SECTIONS SHEET 1

PROJECT: SIXTH STREET PARK, ARTS AND RIVER CONNECTIVITY IMPROVEMENTS (PARC)

ADDRESS: SIXTH STREET OVER THE LOS ANGELES RIVER

GARY LEE MOORE, P.E., ENV SP — CITY ENGINEER

DESIGN GROUP — DATE:

LANDSCAPE ARCHITECT: MARY MARGARET JONES — LIC. NO. — 07/11/2022
DESIGNED BY: MARY MARGARET JONES
DRAWN BY: MEGAN ESOPENKO
CHECKED BY: GAVIN MCMILLAN
APPROVED BY: MARY MARGARET JONES

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INDEX NO.

BUILDING NO.

WORK ORDER NO. E700235D
FILE NO. --
DRAWING NO. L-301
SHEET 123 OF 295 SHEETS

REVISION DATES (DESIGN STAGE ONLY)

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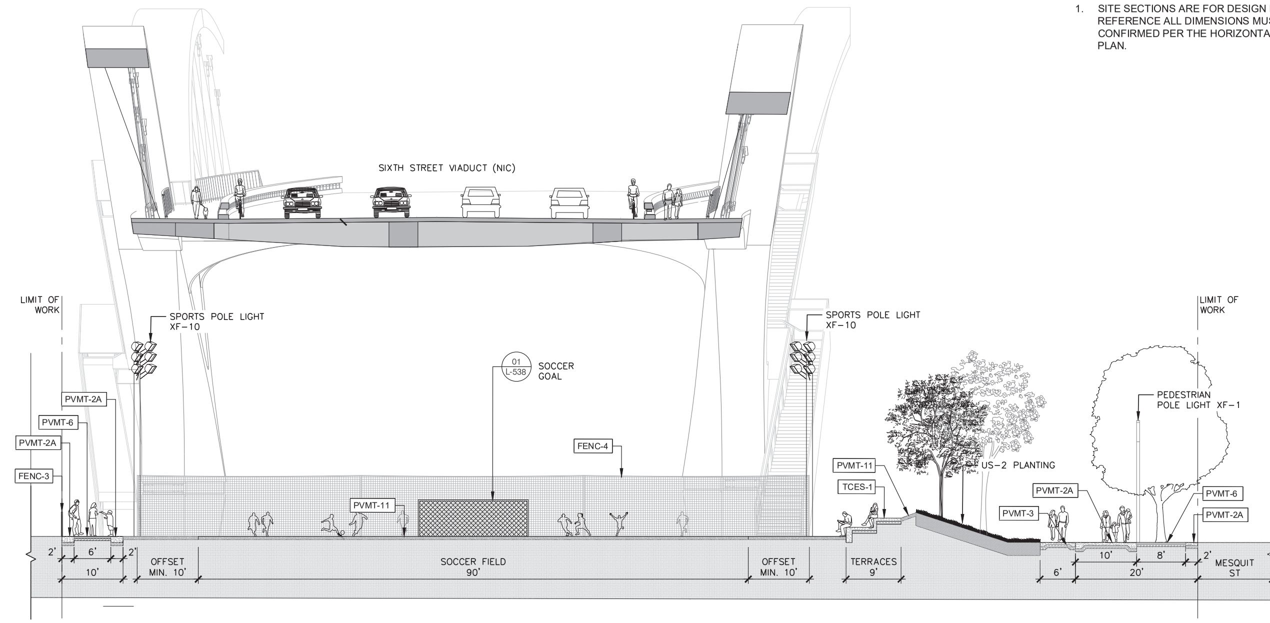
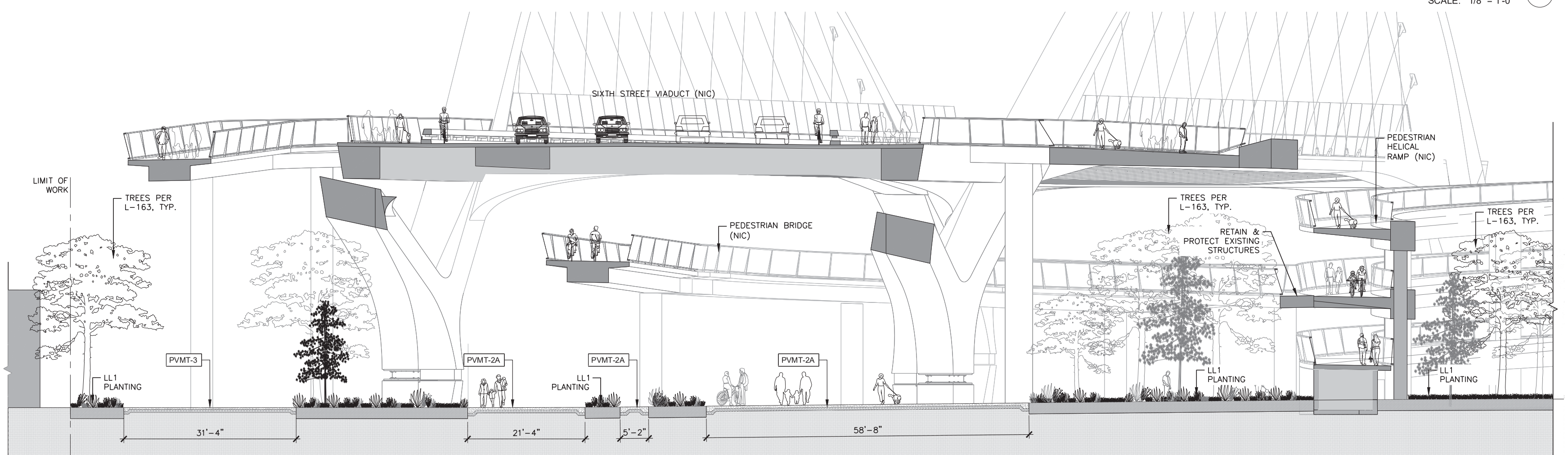
SHEET NOTES

1. SITE SECTIONS ARE FOR DESIGN INTENT. REFERENCE ALL DIMENSIONS MUST BE CONFIRMED PER THE HORIZONTAL CONTROL PLAN.



EAST PARK - SYNTHETIC SOCCER FIELD SITE SECTION (04)
SCALE: 1/8" = 1'-0"



EAST PARK - NATURE WALK SITE SECTION (03)
SCALE: 1/8" = 1'-0"

PLANS PREPARED BY:
TETRA TECH, INC.
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LOS ANGELES, CA 90017
PHONE: (213) 239-8866

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HORIZ. CONTROL: GPS, PID AE 1704, EPOCH 1991.35

SHEET TITLE: SITE SECTIONS SHEET 2

PROJECT: SIXTH STREET PARK, ARTS AND RIVER CONNECTIVITY IMPROVEMENTS (PARC)

ADDRESS: SIXTH STREET OVER THE LOS ANGELES RIVER

GARY LEE MOORE, P.E., ENV SP — CITY ENGINEER
DESIGN GROUP — DATE:
LANDSCAPE ARCHITECT: MARY MARGARET JONES — LIC. NO. — 07/11/2022
DESIGNED BY: MARY MARGARET JONES
DRAWN BY: MEGAN ESOPENKO
CHECKED BY: GAVIN MCMILLAN
APPROVED BY: MARY MARGARET JONES

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WORK ORDER NO. E700235D
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DRAWING NO. L-302
SHEET 124 OF 295 SHEETS

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SHEET NOTES

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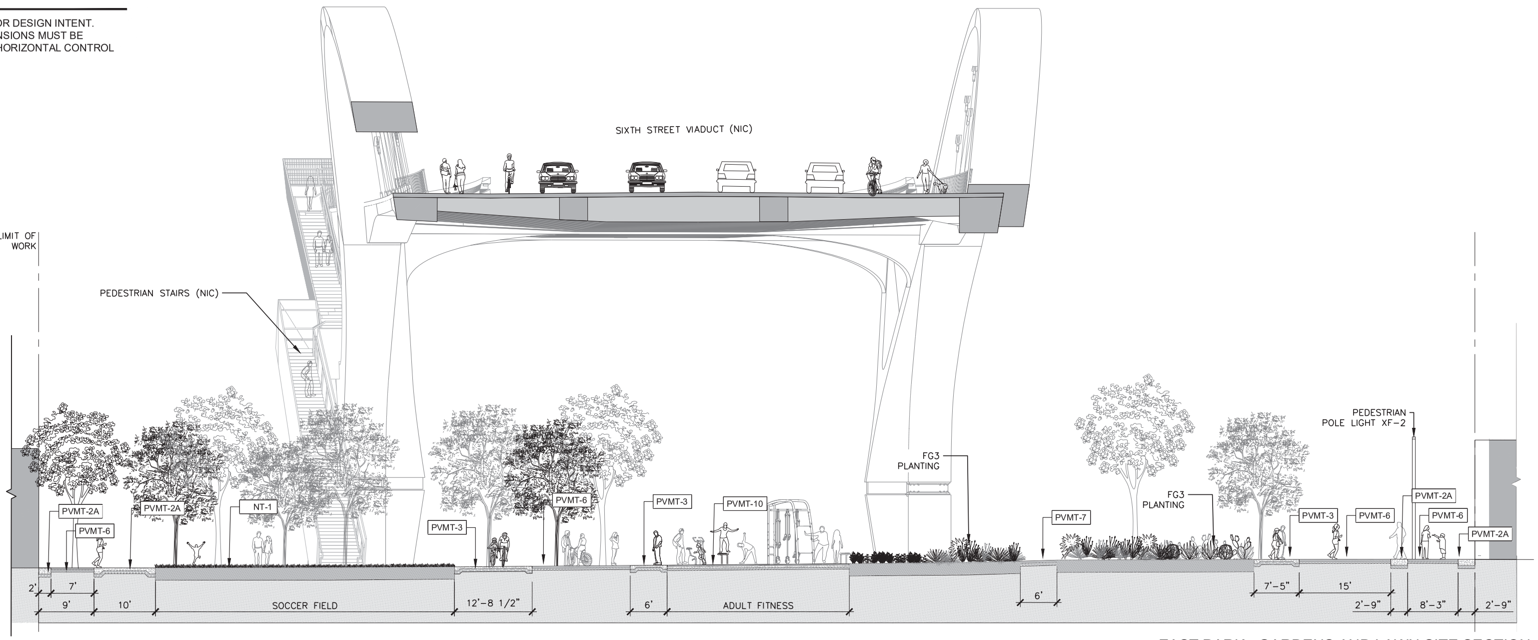
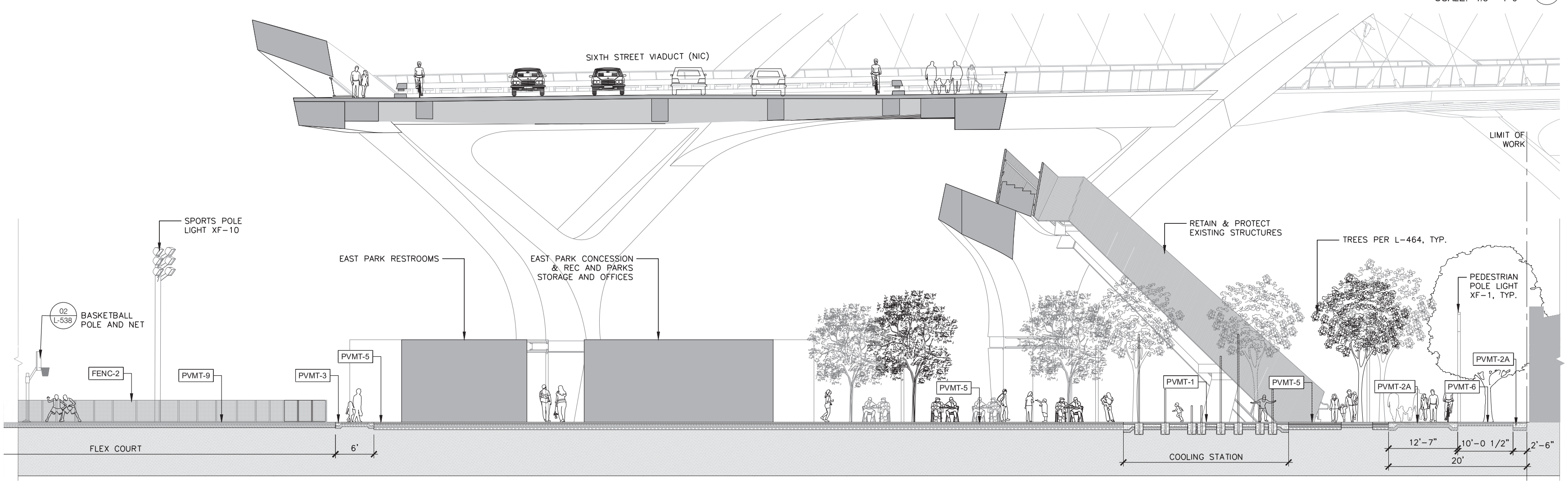


EAST PARK - GARDENS AND LAWN SITE SECTION (06)
SCALE: 1/8" = 1'-0"



EAST PARK - PLAZA AND PLAY SITE SECTION (05)
SCALE: 1/8" = 1'-0"

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PLANS PREPARED BY:

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SHEET TITLE: SITE SECTIONS SHEET 3

PROJECT: SIXTH STREET PARK, ARTS AND RIVER CONNECTIVITY IMPROVEMENTS (PARC)

ADDRESS: SIXTH STREET OVER THE LOS ANGELES RIVER

GARY LEE MOORE, P.E., ENV SP — CITY ENGINEER
DESIGN GROUP — DATE: 07/11/2022
LANDSCAPE ARCHITECT: MARY MARGARET JONES — LIC. NO.
DESIGNED BY: MARY MARGARET JONES
DRAWN BY: MEGAN ESOPENKO
CHECKED BY: GAVIN MCMILLAN
APPROVED BY: MARY MARGARET JONES

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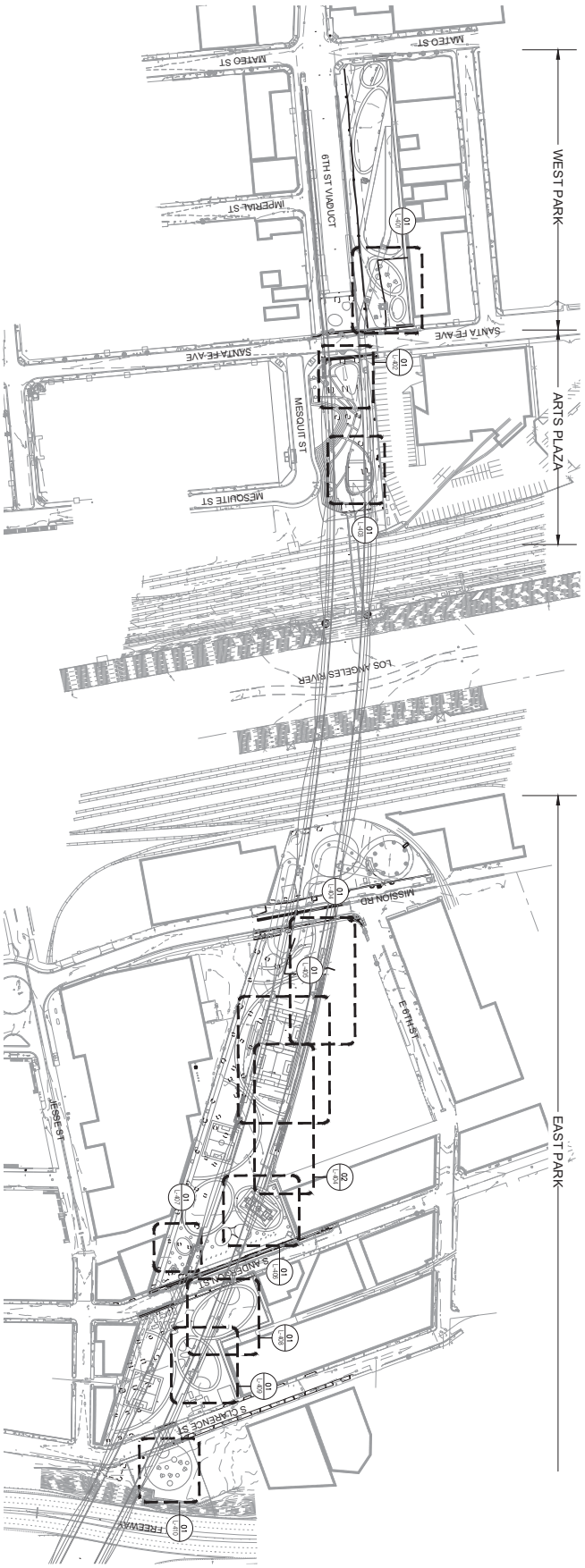

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PHONE: (213) 239-8866

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SHEET NO. L-400

WORK ORDER NO. E7002350

DRAWING NO. –

TILE NO. –

VERT. CONTROL: BM 12-04070, 1929 (NGVD29) - 1985 ADJUSTMENT
HORIZ. CONTROL: GPS, PID AE 1704, EPOCH 1991.35

SHEET TITLE: ENLARGEMENTS KEY PLAN

PROJECT: SIXTH STREET PARK, ARTS AND RIVER CONNECTIVITY IMPROVEMENTS (PARC)

ADDRESS: SIXTH STREET OVER THE LOS ANGELES RIVER

GARY LEE MOORE, P.E., ENV SP CITY ENGINEER

DESIGN GROUP	DATE:
LANDSCAPE ARCHITECT: MARY MARGARET JONES LIC. NO.	07/11/2022
DESIGNED BY: MARY MARGARET JONES	
DRAWN BY: MEGAN ESOPENKO	
CHECKED BY: GAVIN MCMILLAN	
APPROVED BY: MARY MARGARET JONES	

LICENSED LANDSCAPE ARCHITECT MARY MARGARET JONES 5641 STATE OF CALIFORNIA

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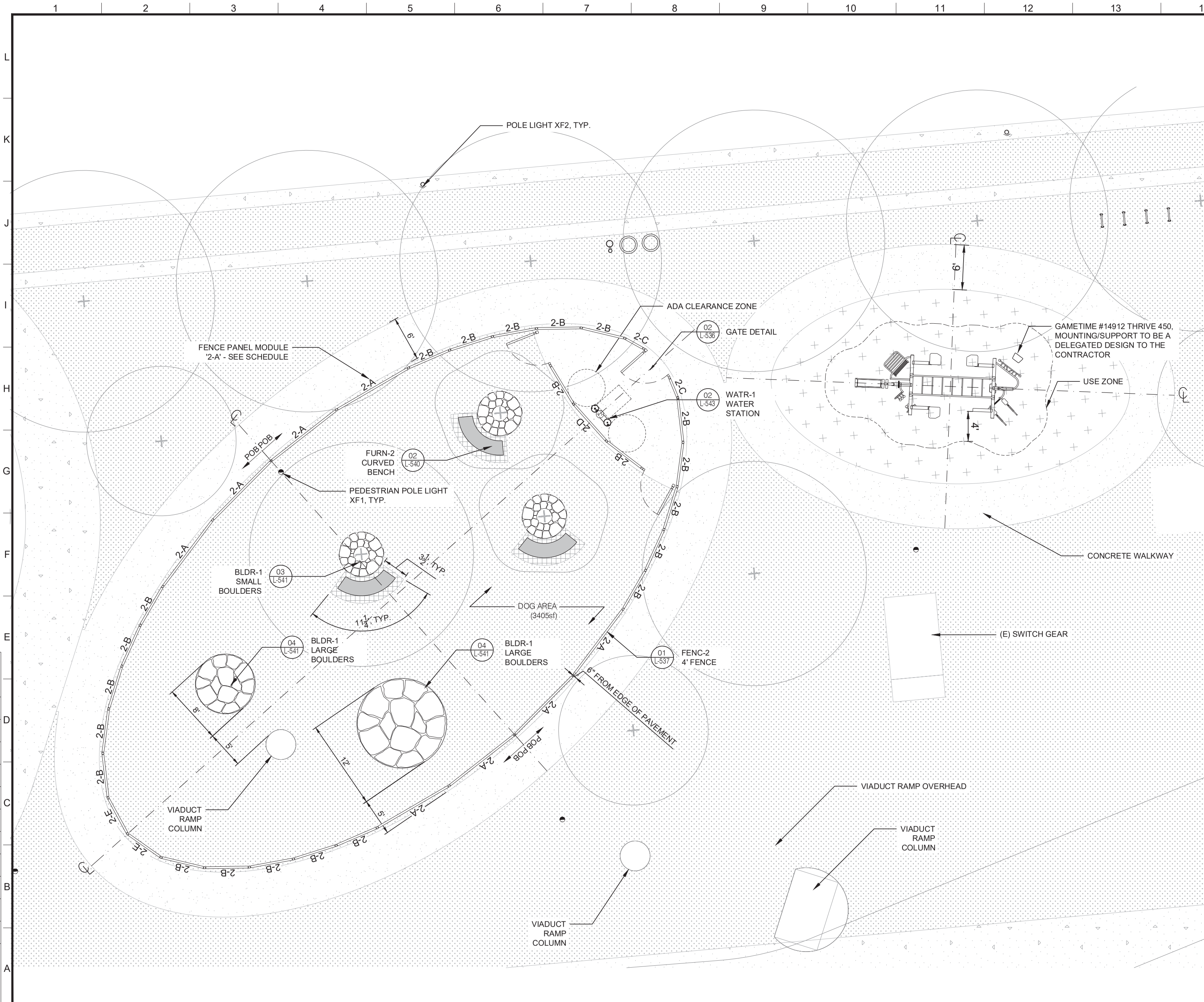

SHEET NOTES

1. SHOP DRAWINGS – SUBMIT PRIOR TO MOCKUP AND/OR FABRICATION. SEE SPECIFICATION.
2. MOCKUP – MOCKUP A PORTION AND SUBMIT PHOTOGRAPHS OF ALL JOINTS, WELDS, SEAMS AND FINISHES PRIOR TO FABRICATION. SEE SPECIFICATION.
3. FIELD VERIFY DIMENSIONS PRIOR TO FINAL FABRICATION.
4. ALL STAINLESS SHALL BE 316 GRADE WITH #4 FINISH UNLESS OTHERWISE NOTED.

FENC-2 PANEL SCHEDULE

PANEL NUMBER	PANEL LENGTH	NUMBER OF SEGMENTS
2-A	11' - 1 1/2"	8
2-B	5' - 11 7/8"	22
2-C	2' - 10 3/4"	2
2-D	6' - 7 3/8"	1
2-E	5' - 5 5/8"	2

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707 WILSHIRE BLVD. 23RD FLR.
LOS ANGELES, CA 90017
PHONE: (213) 239-8866

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VERT. CONTROL: BM 12-04070, 1929 (NGVD29) - 1985 ADJUSTMENT
HORIZ. CONTROL: GPS, PID AE 1704, EPOCH 1991.35

SHEET TITLE: ENLARGEMENT: WEST PARK - DOG PARK & FITNESS LAYOUT
PROJECT: SIXTH STREET PARK, ARTS AND RIVER CONNECTIVITY IMPROVEMENTS (PARC)
ADDRESS: SIXTH STREET OVER THE LOS ANGELES RIVER

GARY LEE MOORE, P.E., ENV SP — CITY ENGINEER — DATE:
DESIGN GROUP
LANDSCAPE ARCHITECT: MARY MARGARET JONES — LIC. NO. — 07/11/2022
DESIGNED BY: MARY MARGARET JONES
DRAWN BY: MEGAN ESOPENKO
CHECKED BY: GAVIN MCMILLAN
APPROVED BY: MARY MARGARET JONES

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WORK ORDER NO. E700235D
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SHEET 127 OF 295 SHEETS

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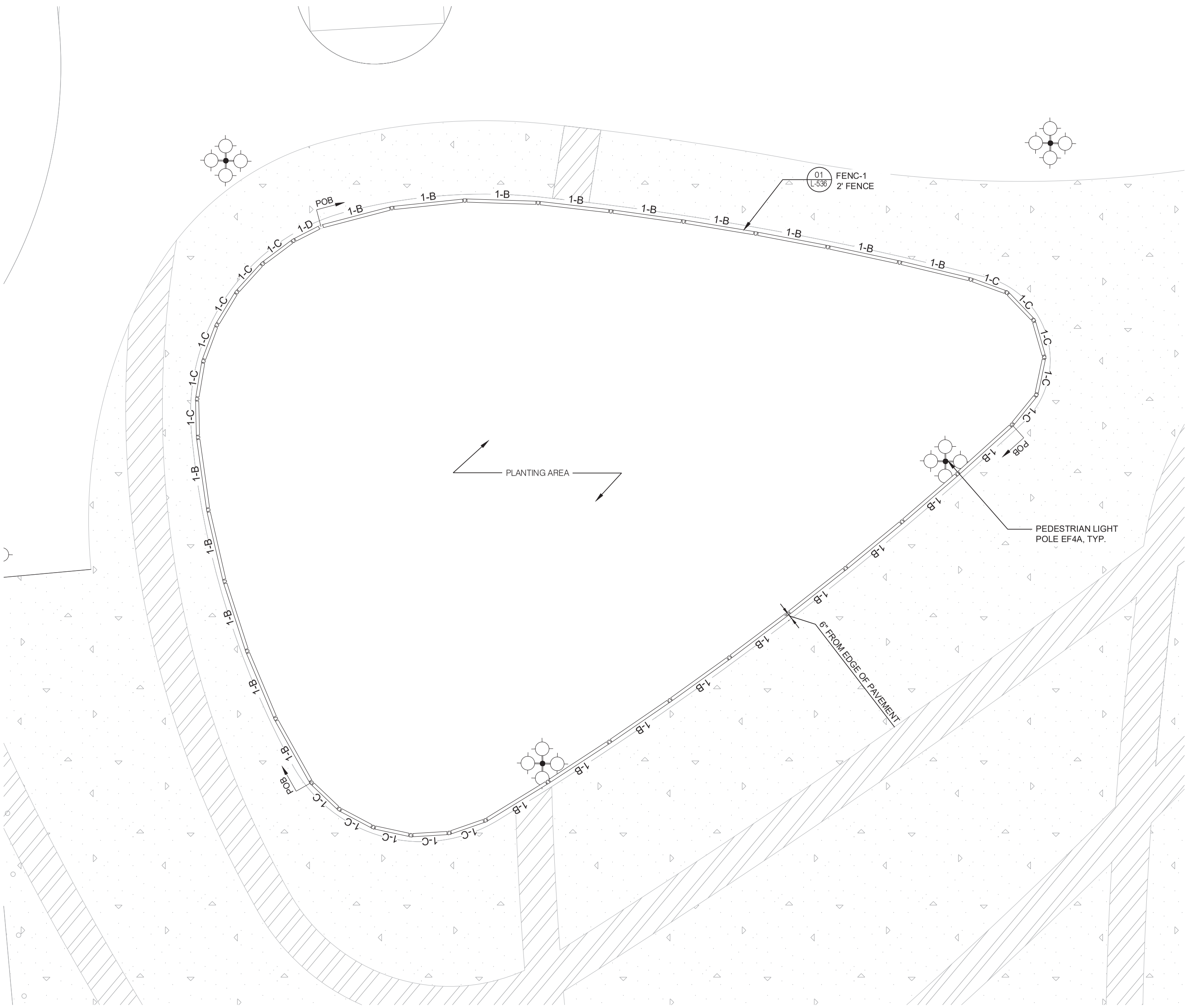

SHEET NOTES

1. SHOP DRAWINGS – SUBMIT PRIOR TO MOCKUP AND/OR FABRICATION. SEE SPECIFICATION.
2. MOCKUP – MOCKUP A PORTION AND SUBMIT PHOTOGRAPHS OF ALL JOINTS, WELDS, SEAMS AND FINISHES PRIOR TO FABRICATION. SEE SPECIFICATION.
3. FIELD VERIFY DIMENSIONS PRIOR TO FINAL FABRICATION.
4. ALL STAINLESS SHALL BE 316 GRADE WITH #4 FINISH UNLESS OTHERWISE NOTED.

FENC-1 PANEL SCHEDULE

PANEL NUMBER	PANEL LENGTH	NUMBER OF SEGMENTS
1-B	5' - 11 7/8"	23
1-C	3' - 1 5/8"	16
1-D	2' - 6 3/8"	1

SCALE 1" = 4'

PLANS PREPARED BY:

TETRA TECH, INC.
707 WILSHIRE BLVD, 23RD FLR.
LOS ANGELES, CA 90017
PHONE: (213) 239-8866

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Hargreaves Jones Landscape Architecture

CITY OF LOS ANGELES — DEPARTMENT OF PUBLIC WORKS — BUREAU OF ENGINEERING

VERT. CONTROL: BM 12-04070, 1929 (NGVD29) - 1985 ADJUSTMENT
HORIZ. CONTROL: GPS, PID AE 1704, EPOCH 1991.35

SHEET TITLE: ENLARGEMENT: ARTS PLAZA - PLANTING AREA FENCE LAYOUT

PROJECT: SIXTH STREET PARK, ARTS AND RIVER CONNECTIVITY IMPROVEMENTS (PARC)

ADDRESS: SIXTH STREET OVER THE LOS ANGELES RIVER

GARY LEE MOORE, P.E., ENV SP — CITY ENGINEER

DESIGN GROUP

LANDSCAPE ARCHITECT: MARY MARGARET JONES — LIC. NO. — DATE: 07/11/2022

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DRAWN BY: MEGAN ESOPENKO

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APPROVED BY: MARY MARGARET JONES

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WORK ORDER NO. E700235D

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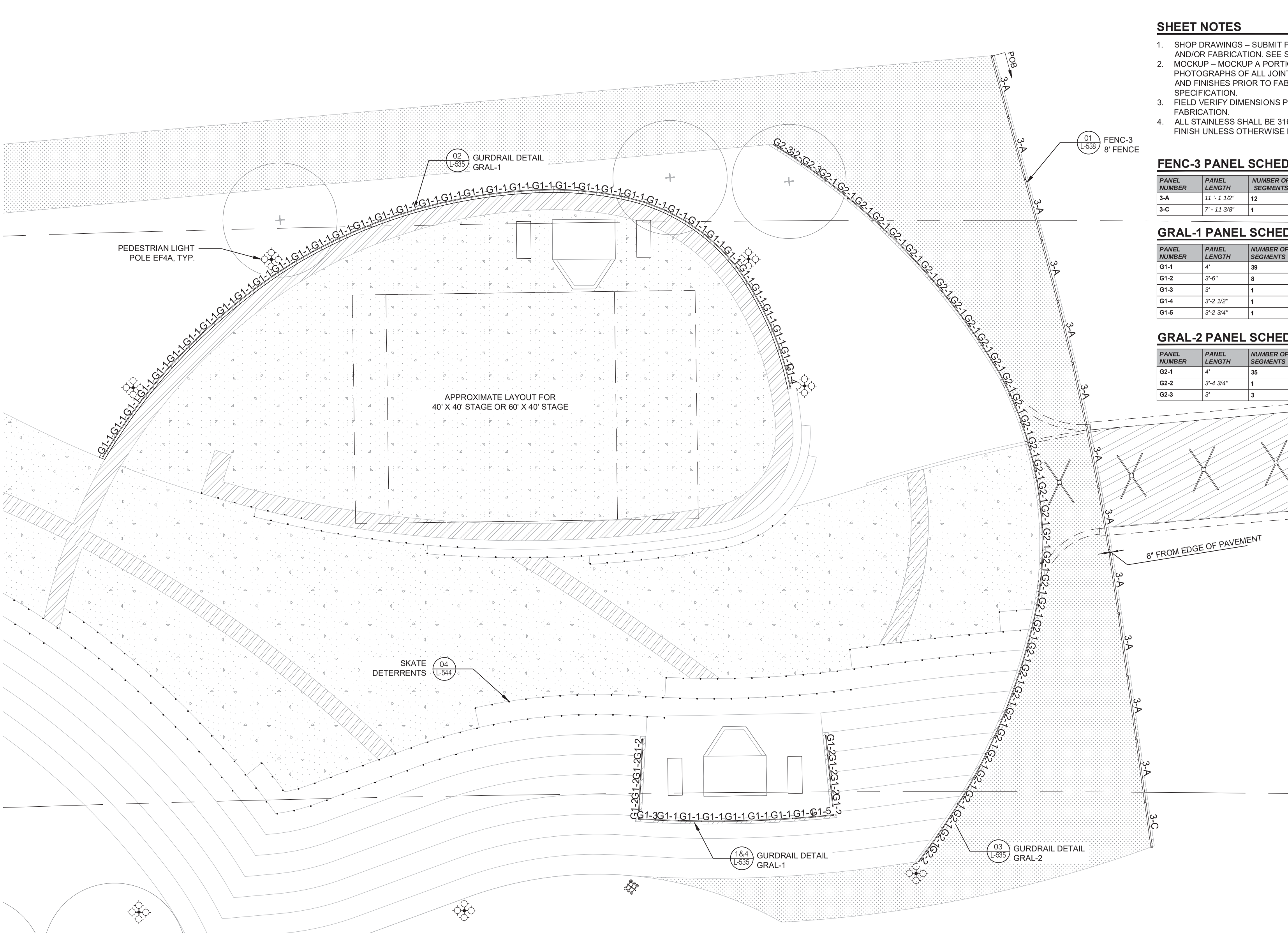

SHEET NOTES

1. SHOP DRAWINGS – SUBMIT PRIOR TO MOCKUP AND/OR FABRICATION. SEE SPECIFICATION.
2. MOCKUP – MOCKUP A PORTION AND SUBMIT PHOTOGRAPHS OF ALL JOINTS, WELDS, SEAMS AND FINISHES PRIOR TO FABRICATION. SEE SPECIFICATION.
3. FIELD VERIFY DIMENSIONS PRIOR TO FINAL FABRICATION.
4. ALL STAINLESS SHALL BE 316 GRADE WITH #4 FINISH UNLESS OTHERWISE NOTED.

FENC-3 PANEL SCHEDULE

PANEL NUMBER	PANEL LENGTH	NUMBER OF SEGMENTS
3-A	11 '- 1 1/2"	12
3-C	7' - 11 3/8"	1

GRAL-1 PANEL SCHEDULE

PANEL NUMBER	PANEL LENGTH	NUMBER OF SEGMENTS
G1-1	4'	39
G1-2	3'-6"	8
G1-3	3'	1
G1-4	3'-2 1/2"	1
G1-5	3'-2 3/4"	1

GRAL-2 PANEL SCHEDULE

PANEL NUMBER	PANEL LENGTH	NUMBER OF SEGMENTS
G2-1	4'	35
G2-2	3'-4 3/4"	1
G2-3	3'	3

SCALE 1" = 8'

PLANS PREPARED BY:
TETRA TECH, INC.
707 WILSHIRE BLVD, 23RD FLR.
LOS ANGELES, CA 90017
PHONE: (213) 239-8866

HargreavesJones
Hargreaves Jones Landscape Architecture

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VERT. CONTROL: BM 12-04070, 1929 (NGVD29) - 1985 ADJUSTMENT
HORIZ. CONTROL: GPS, PID AE 1704, EPOCH 1991.35

SHEET TITLE: ENLARGEMENT: ARTS PLAZA - GUARDRAIL & FENCE LAYOUT
PROJECT: SIXTH STREET PARK, ARTS AND RIVER CONNECTIVITY IMPROVEMENTS (PARC)
ADDRESS: SIXTH STREET OVER THE LOS ANGELES RIVER

GARY LEE MOORE, P.E., ENV SP — CITY ENGINEER
DESIGN GROUP — DATE:
LANDSCAPE ARCHITECT: MARY MARGARET JONES — LIC. NO. — 07/11/2022
DESIGNED BY: MARY MARGARET JONES
DRAWN BY: MEGAN ESOPENKO
CHECKED BY: GAVIN MCMILLAN
APPROVED BY: MARY MARGARET JONES

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NO.	REVISIONS	DATE	BY

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BUILDING NO.

WORK ORDER NO. E700235D
FILE NO. --
DRAWING NO. L-403
SHEET 129 OF 295 SHEETS

ENGINEERING — CITY OF LOS ANGELES

REVISION DATES (DESIGN STAGE ONLY)

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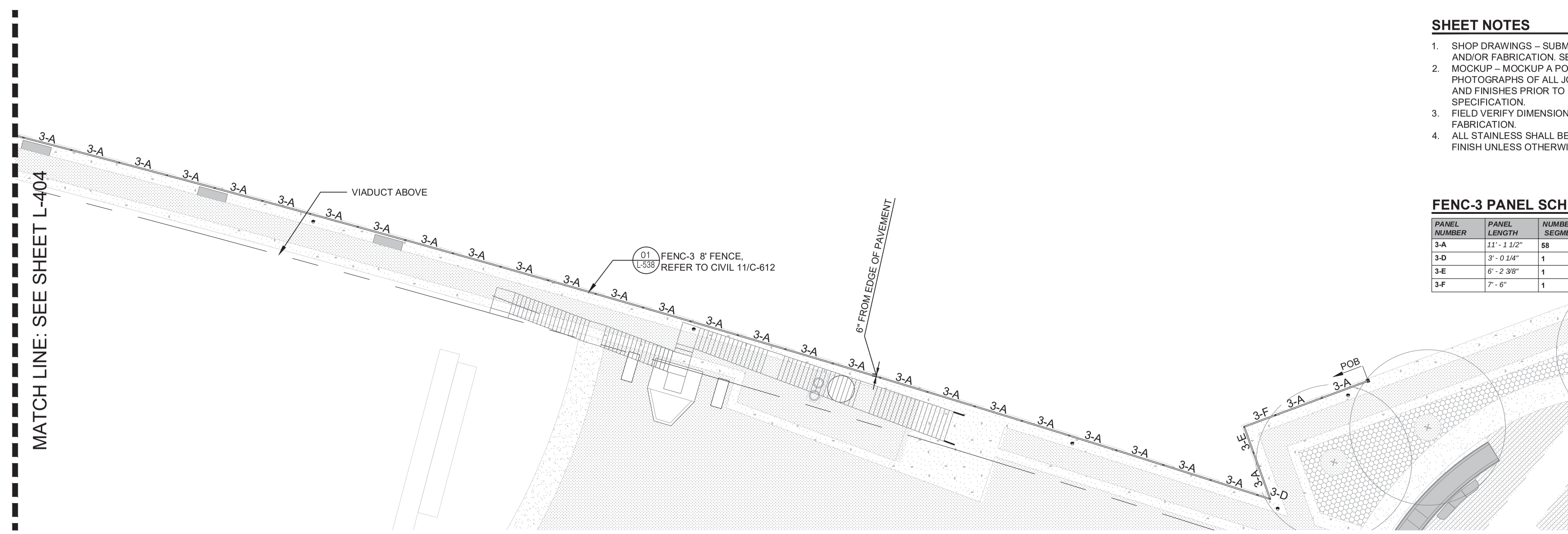
SHEET NOTES

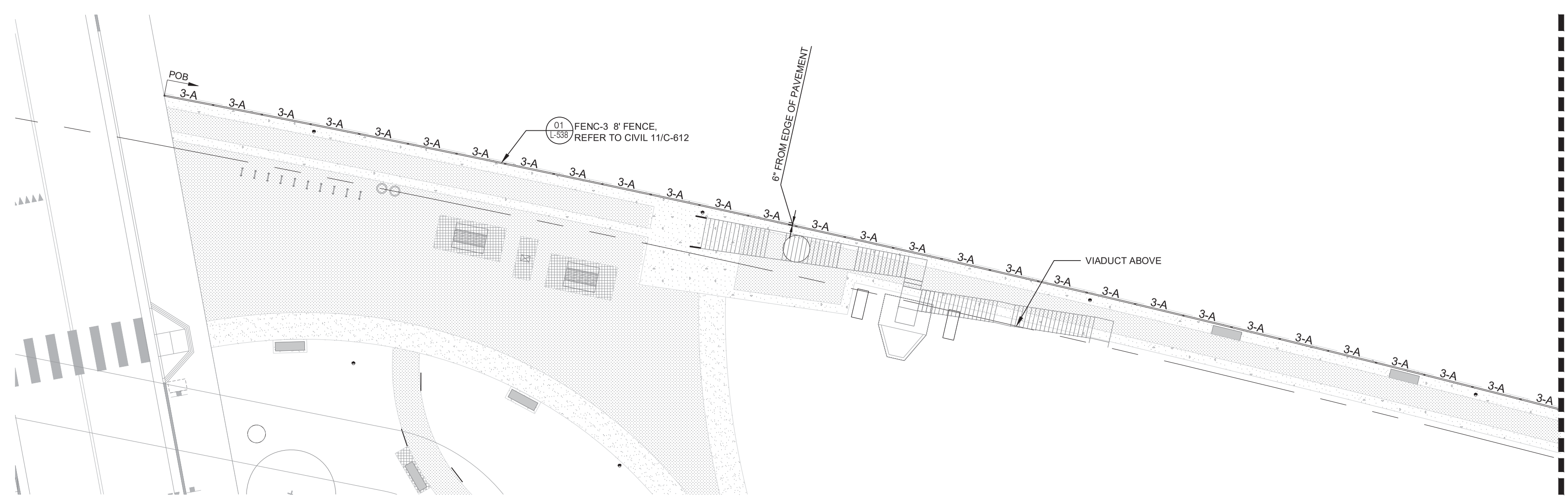
1. SHOP DRAWINGS – SUBMIT PRIOR TO MOCKUP AND/OR FABRICATION. SEE SPECIFICATION.
2. MOCKUP – MOCKUP A PORTION AND SUBMIT PHOTOGRAPHS OF ALL JOINTS, WELDS, SEAMS AND FINISHES PRIOR TO FABRICATION. SEE SPECIFICATION.
3. FIELD VERIFY DIMENSIONS PRIOR TO FINAL FABRICATION.
4. ALL STAINLESS SHALL BE 316 GRADE WITH #4 FINISH UNLESS OTHERWISE NOTED.

FENC-3 PANEL SCHEDULE

PANEL NUMBER	PANEL LENGTH	NUMBER OF SEGMENTS
3-A	11' - 1 1/2"	58
3-D	3' - 0 1/4"	1
3-E	6' - 2 3/8"	1
3-F	7' - 6"	1



02 FENCE LAYOUT 2/2
SCALE: AS SHOWN



01 FENCE LAYOUT 1/2
SCALE: AS SHOWN

SCALE 1" = 12'

PLANS PREPARED BY:
TETRA TECH, INC.
707 WILSHIRE BLVD, 23RD FLR.
LOS ANGELES, CA 90017
PHONE: (213) 239-8866

HargreavesJones
Hargreaves Jones Landscape Architecture

CITY OF LOS ANGELES DEPARTMENT OF PUBLIC WORKS BUREAU OF ENGINEERING

VERT. CONTROL: BM 12-04070, 1929 (NGVD29) - 1985 ADJUSTMENT
HORIZ. CONTROL: GPS, PID AE 1704, EPOCH 1991.35

SHEET TITLE: ENLARGEMENT: EAST PARK - NORTHERN EDGE FENCE LAYOUT
PROJECT: SIXTH STREET PARK, ARTS AND RIVER CONNECTIVITY IMPROVEMENTS (PARC)
ADDRESS: SIXTH STREET OVER THE LOS ANGELES RIVER

GARY LEE MOORE, P.E., ENV SP — CITY ENGINEER
DESIGN GROUP
LANDSCAPE ARCHITECT: MARY MARGARET JONES — LIC. NO. — DATE: 07/11/2022
DESIGNED BY: MARY MARGARET JONES
DRAWN BY: MEGAN ESOPENKO
CHECKED BY: GAVIN MCMILLAN
APPROVED BY: MARY MARGARET JONES

THIS PLAN WAS ELECTRONICALLY SIGNED AND STAMPED.

NO. | REVISIONS: | DATE: | BY:

BUILDING NO.
INDEX NO.

ENGINEERING — CITY OF LOS ANGELES

WORK ORDER NO. E700235D
FILE NO. --
DRAWING NO. L-404
SHEET 130 OF 295 SHEETS

REVISION DATES (DESIGN STAGE ONLY)

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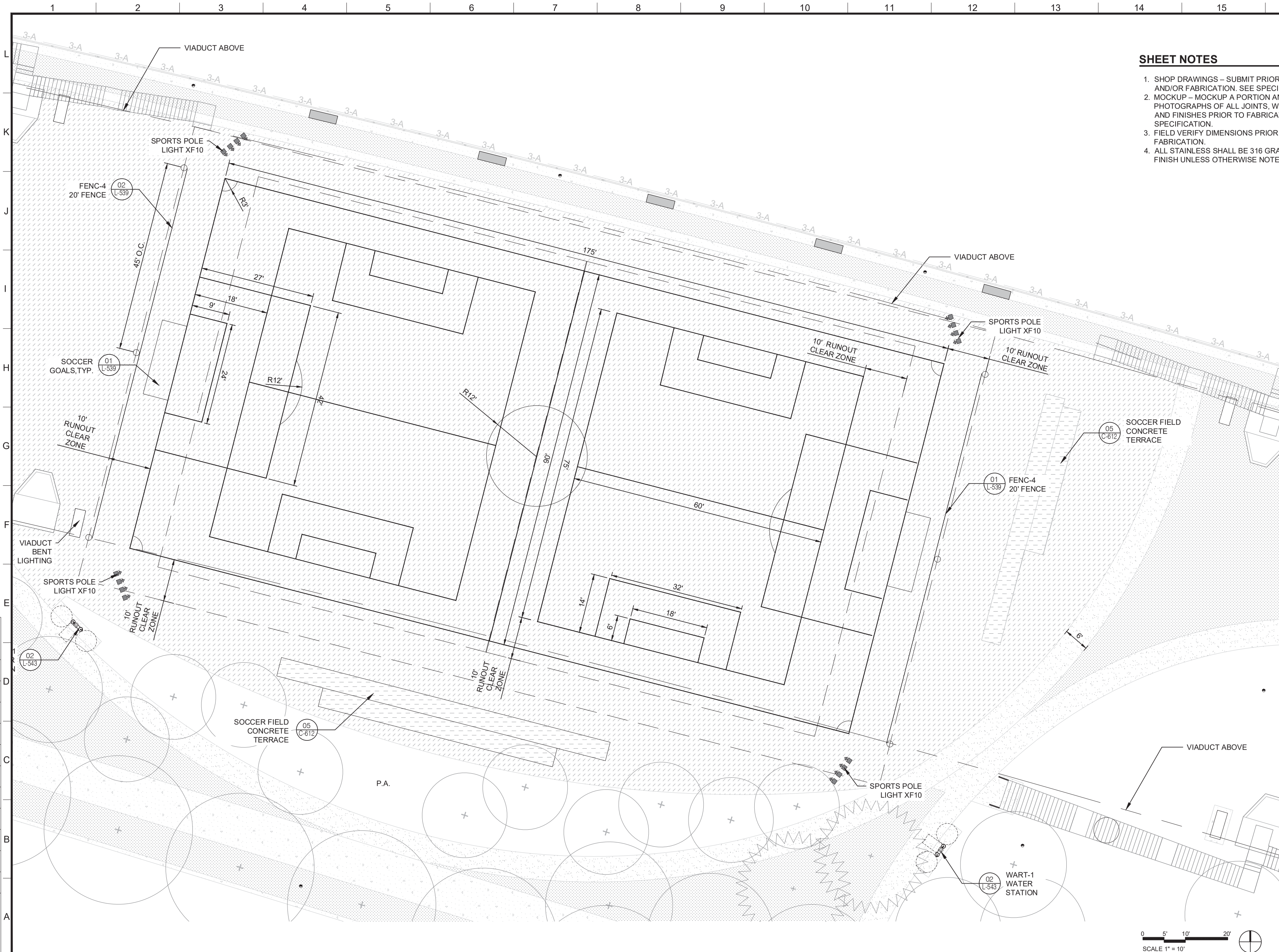
BID SET - NOT FOR CONSTRUCTION - 07/11/2022



SHEET NOTES

1. SHOP DRAWINGS – SUBMIT PRIOR TO MOCKUP AND/OR FABRICATION. SEE SPECIFICATION.
2. MOCKUP – MOCKUP A PORTION AND SUBMIT PHOTOGRAPHS OF ALL JOINTS, WELDS, SEAMS AND FINISHES PRIOR TO FABRICATION. SEE SPECIFICATION.
3. FIELD VERIFY DIMENSIONS PRIOR TO FINAL FABRICATION.
4. ALL STAINLESS SHALL BE 316 GRADE WITH #4 FINISH UNLESS OTHERWISE NOTED.

PLANS PREPARED BY:
TETRA TECH, INC.
707 WILSHIRE BLVD. 23RD FLR.
LOS ANGELES, CA 90017
PHONE: (213) 239-8866

HargreavesJones
Hargreaves Jones Landscape Architecture

CITY OF LOS ANGELES — DEPARTMENT OF PUBLIC WORKS — BUREAU OF ENGINEERING

VERT. CONTROL: BM 12-04070, 1929 (NGVD29) - 1985 ADJUSTMENT
HORIZ. CONTROL: GPS, PID AE 1704, EPOCH 1991.35

SHEET TITLE: ENLARGEMENT: EAST PARK - SOCCER FIELD LAYOUT

PROJECT: SIXTH STREET PARK, ARTS AND RIVER CONNECTIVITY IMPROVEMENTS (PARC)

ADDRESS: SIXTH STREET OVER THE LOS ANGELES RIVER

GARY LEE MOORE, P.E., ENV SP — CITY ENGINEER

DESIGN GROUP — DATE:
LANDSCAPE ARCHITECT: MARY MARGARET JONES — LIC. NO. — 07/11/2022
DESIGNED BY: MARY MARGARET JONES
DRAWN BY: MEGAN ESOPENKO
CHECKED BY: GAVIN MCMILLAN
APPROVED BY: MARY MARGARET JONES

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NO.	REVISIONS:	DATE:	BY:

INDEX NO.

BUILDING NO.

ENGINEERING — CITY OF LOS ANGELES

WORK ORDER NO. E700235D
FILE NO. --
DRAWING NO. L-405
SHEET 131 OF 295 SHEETS

REVISION DATES (DESIGN STAGE ONLY)

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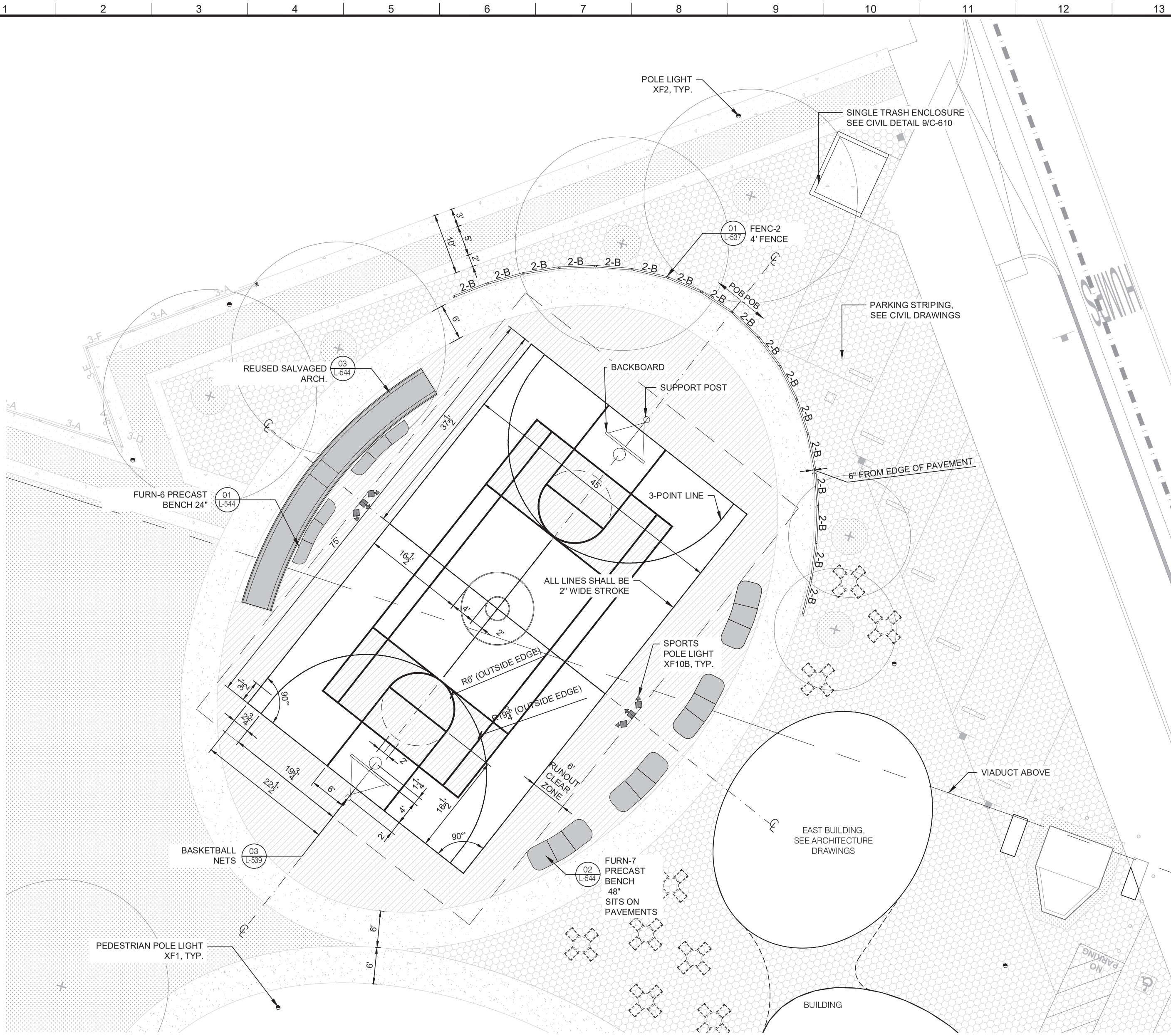

SHEET NOTES

1. SHOP DRAWINGS – SUBMIT PRIOR TO MOCKUP AND/OR FABRICATION. SEE SPECIFICATION.
2. MOCKUP – MOCKUP A PORTION AND SUBMIT PHOTOGRAPHS OF ALL JOINTS, WELDS, SEAMS AND FINISHES PRIOR TO FABRICATION. SEE SPECIFICATION.
3. FIELD VERIFY DIMENSIONS PRIOR TO FINAL FABRICATION.
4. ALL STAINLESS SHALL BE 316 GRADE WITH #4 FINISH UNLESS OTHERWISE NOTED.

FENC-3 PANEL SCHEDULE

PANEL NUMBER	PANEL LENGTH	NUMBER OF SEGMENTS
2-B	5' - 11 7/8"	17

SCALE 1" = 8'

PLANS PREPARED BY:

TETRA TECH, INC.
707 WILSHIRE BLVD, 23RD FLR.
LOS ANGELES, CA 90017
PHONE: (213) 239-8866

HargreavesJones
Hargreaves Jones Landscape Architecture

CITY OF LOS ANGELES · DEPARTMENT OF PUBLIC WORKS · BUREAU OF ENGINEERING

VERT. CONTROL: BM 12-04070, 1929 (NGVD29) - 1985 ADJUSTMENT
HORIZ. CONTROL: GPS, PID AE 1704, EPOCH 1991.35

SHEET TITLE: ENLARGEMENT: EAST PARK - BASKETBALL COURT LAYOUT

PROJECT: SIXTH STREET PARK, ARTS AND RIVER CONNECTIVITY IMPROVEMENTS (PARC)

ADDRESS: SIXTH STREET OVER THE LOS ANGELES RIVER

GARY LEE MOORE, P.E., ENV SP — CITY ENGINEER

DESIGN GROUP — DATE:

LANDSCAPE ARCHITECT: MARY MARGARET JONES — LIC. NO. — 07/11/2022
DESIGNED BY: MARY MARGARET JONES
DRAWN BY: MEGAN ESOPENKO
CHECKED BY: GAVIN MCMILLAN
APPROVED BY: MARY MARGARET JONES

THIS PLAN WAS ELECTRONICALLY SIGNED AND STAMPED.

NO.	REVISIONS:	DATE:	BY:

INDEX NO.

BUILDING NO.

ENGINEERING CITY OF LOS ANGELES

WORK ORDER NO. E700235D
FILE NO. --
DRAWING NO. L-406
SHEET 132 OF 295 SHEETS

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REVISION DATES (DESIGN STAGE ONLY)

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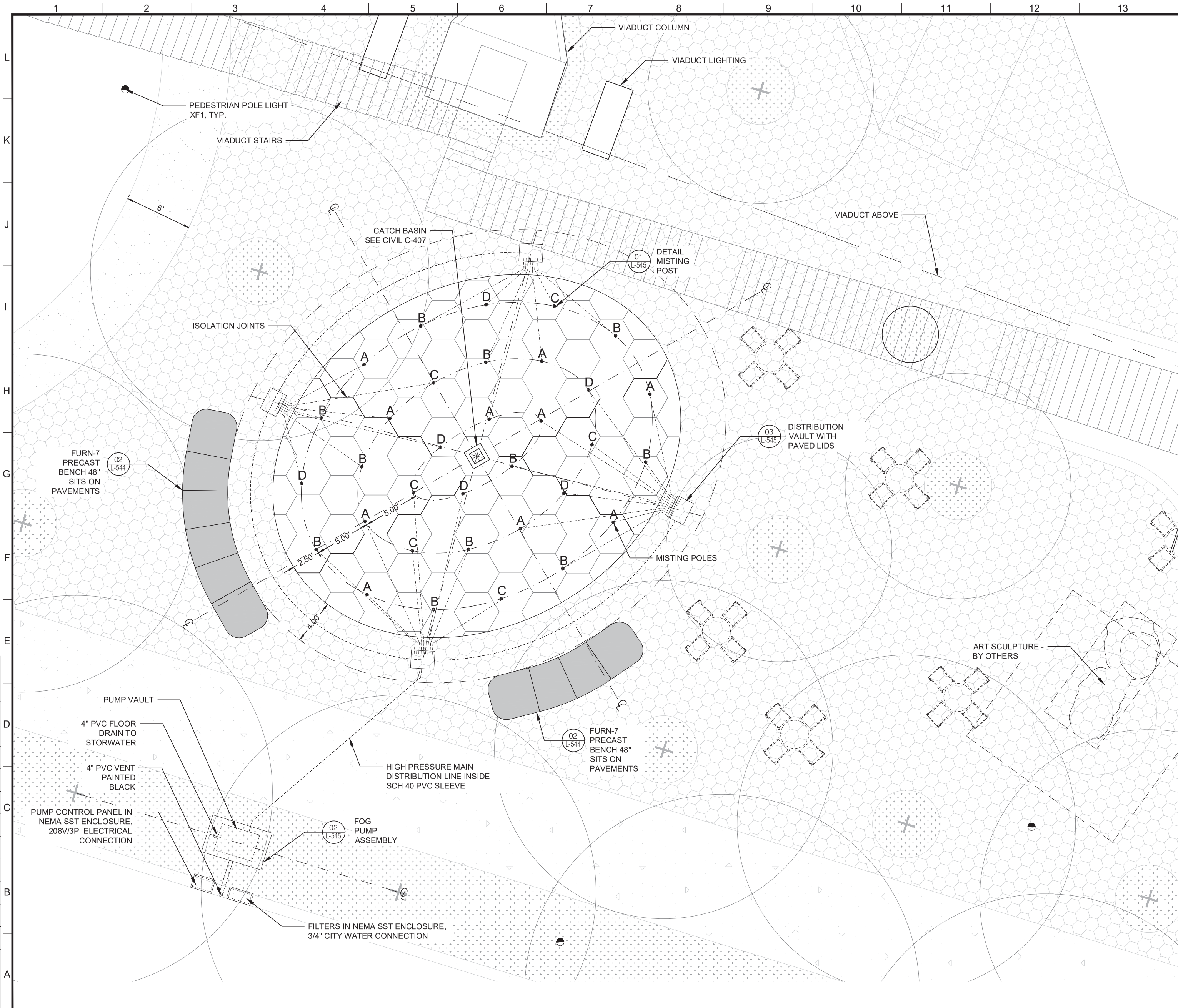

SHEET NOTES

1. FOG COOLING STATION DETAILS ARE INDICATIVE ONLY. THE CONTRACTOR SHALL BE RESPONSIBLE FOR THE MECHANICAL, ELECTRICAL AND PLUMBING DESIGN, FABRICATION, AND INSTALLATION OF THE SYSTEM.
2. DELEGATED DESIGN – DESIGN MECHANICAL, ELECTRICAL, CIVIL AND PLUMBING SYSTEM INCLUDING AN ENGINEERING ANALYSIS BY A DESIGN ENGINEER PROFESSIONAL LICENSED IN PROJECT'S STATE. SEE SPECIFICATION.
3. SHOP DRAWINGS – SUBMIT PRIOR TO MOCKUP AND/OR FABRICATION. SEE SPECIFICATION.
4. MOCKUP – MOCKUP A PORTION AND SUBMIT PHOTOGRAPHS OF ALL JOINTS, WELDS, SEAMS AND FINISHES PRIOR TO FABRICATION. SEE SPECIFICATION.
5. FIELD VERIFY DIMENSIONS PRIOR TO FINAL FABRICATION.
6. ALL STAINLESS SHALL BE 316 GRADE WITH #4 FINISH UNLESS OTHERWISE NOTED.

MISTING POST SCHEDULE

MISTING POST NUMBER	MISTING POST HEIGHT	NUMBER OF MISTING POST
A	3'	10
B	6'	11
C	12'	6
D	16'	6

REVISION DATES (DESIGN STAGE ONLY)

Sheet Version 3.0

PLANS PREPARED BY:

TETRA TECH, INC.
707 WILSHIRE BLVD. 23RD FLR.
LOS ANGELES, CA 90017
PHONE: (213) 239-8866

HargreavesJones
Hargreaves Jones Landscape Architecture

CITY OF LOS ANGELES — DEPARTMENT OF PUBLIC WORKS — BUREAU OF ENGINEERING

VERT. CONTROL: BM 12-04070, 1929 (NGVD29) - 1985 ADJUSTMENT
HORIZ. CONTROL: GPS, PID AE 1704, EPOCH 1991.35

SHEET TITLE: ENLARGEMENT: EAST PARK - MISTING PAD LAYOUT

PROJECT: SIXTH STREET PARK, ARTS AND RIVER CONNECTIVITY IMPROVEMENTS (PARC)

ADDRESS: SIXTH STREET OVER THE LOS ANGELES RIVER

GARY LEE MOORE, P.E., ENV SP — CITY ENGINEER

DESIGN GROUP — DATE: 07/11/2022

LANDSCAPE ARCHITECT: MARY MARGARET JONES — LIC. NO.

DESIGNED BY: MARY MARGARET JONES

DRAWN BY: MEGAN ESOPENKO

CHECKED BY: GAVIN MCMILLAN

APPROVED BY: MARY MARGARET JONES

THIS PLAN WAS ELECTRONICALLY SIGNED AND STAMPED.

NO.	REVISIONS	DATE	BY

INDEX NO.

BUILDING NO.

ENGINEERING — CITY OF LOS ANGELES

WORK ORDER NO. E700235D

FILE NO. --

DRAWING NO. L-407

SHEET 133 OF 295 SHEETS

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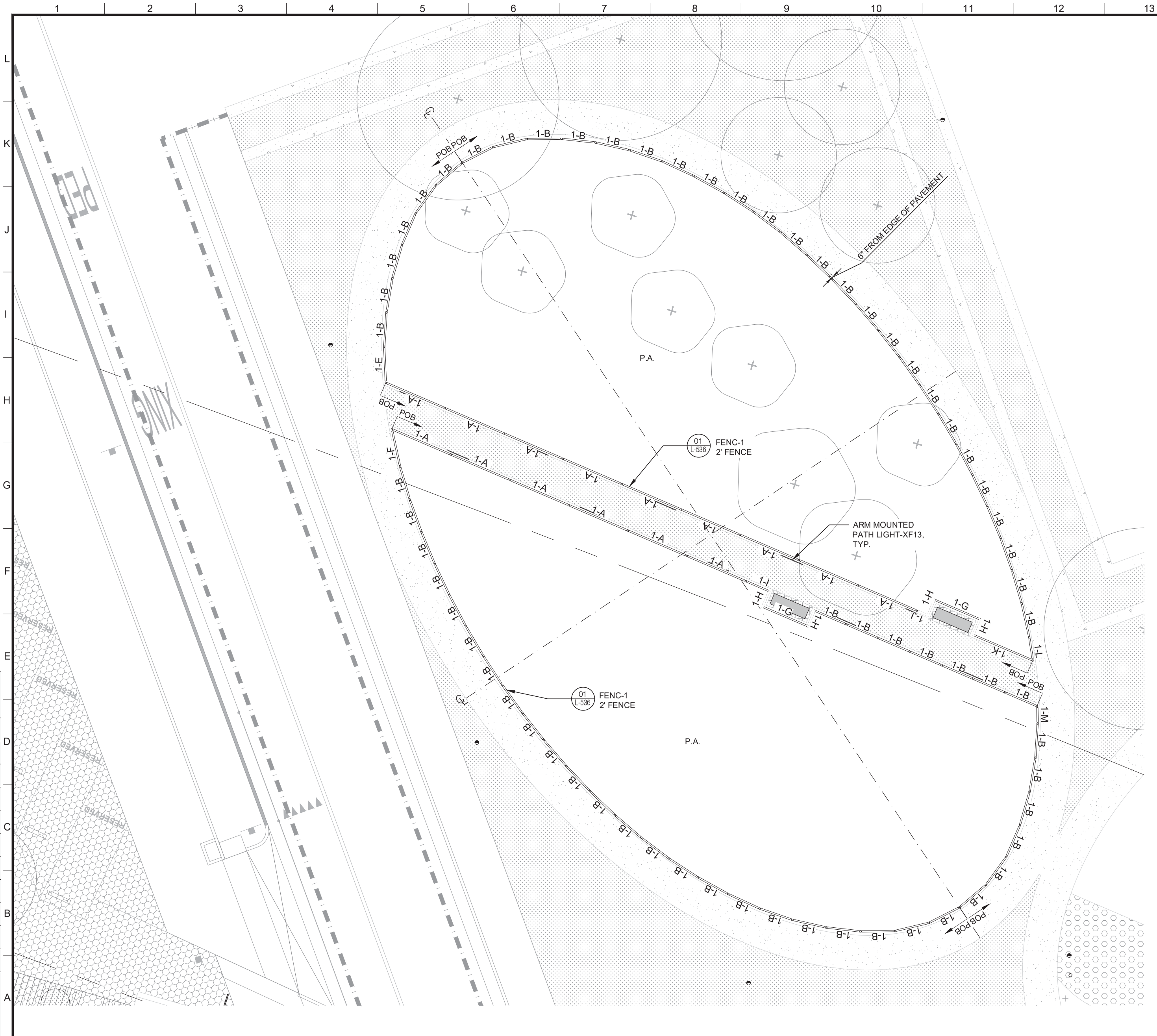

SHEET NOTES

1. SHOP DRAWINGS – SUBMIT PRIOR TO MOCKUP AND/OR FABRICATION. SEE SPECIFICATION.
2. MOCKUP – MOCKUP A PORTION AND SUBMIT PHOTOGRAPHS OF ALL JOINTS, WELDS, SEAMS AND FINISHES PRIOR TO FABRICATION. SEE SPECIFICATION.
3. FIELD VERIFY DIMENSIONS PRIOR TO FINAL FABRICATION.
4. ALL STAINLESS SHALL BE 316 GRADE WITH #4 FINISH UNLESS OTHERWISE NOTED.

FENC-1 PANEL SCHEDULE

PANEL NUMBER	PANEL LENGTH	NUMBER OF SEGMENTS
1-A	11' - 1 1/2"	15
1-B	5' - 11 7/8"	66
1-E	6' - 2 1/2"	1
1-F	6' - 7 3/8"	1
1-G	8' - 6 3/4"	2
1-H	2' - 11 1/4"	4
1-I	4' - 4 3/4"	1
1-J	2 - 0 1/2"	1
1-K	11' - 2 3/4"	1
1-L	4' - 0 3/4"	1
1-M	2' - 11 3/4"	1

PLANS PREPARED BY:
TETRA TECH, INC.
707 WILSHIRE BLVD, 23RD FLR.
LOS ANGELES, CA 90017
PHONE: (213) 239-8866

HargreavesJones
Hargreaves Jones Landscape Architecture

CITY OF LOS ANGELES — DEPARTMENT OF PUBLIC WORKS — BUREAU OF ENGINEERING

VERT. CONTROL: BM 12-04070, 1929 (NGVD29) - 1985 ADJUSTMENT
HORIZ. CONTROL: GPS, PID AE 1704, EPOCH 1991.35

SHEET TITLE: ENLARGEMENT: EAST PARK - PLANTING AREA FENCE LAYOUT
PROJECT: SIXTH STREET PARK, ARTS AND RIVER CONNECTIVITY IMPROVEMENTS (PARC)
ADDRESS: SIXTH STREET OVER THE LOS ANGELES RIVER

GARY LEE MOORE, P.E., ENV SP — CITY ENGINEER
DESIGN GROUP — DATE:
LANDSCAPE ARCHITECT: MARY MARGARET JONES — LIC. NO. — 07/11/2022
DESIGNED BY: MARY MARGARET JONES
DRAWN BY: MEGAN ESOPENKO
CHECKED BY: GAVIN MCMILLAN
APPROVED BY: MARY MARGARET JONES

THIS PLAN WAS ELECTRONICALLY SIGNED AND STAMPED.

NO. | REVISIONS: | DATE | BY:

INDEX NO.
BUILDING NO.

WORK ORDER NO. E700235D
FILE NO. --
DRAWING NO. L-408
SHEET 134 OF 295 SHEETS

REVISION DATES (DESIGN STAGE ONLY)

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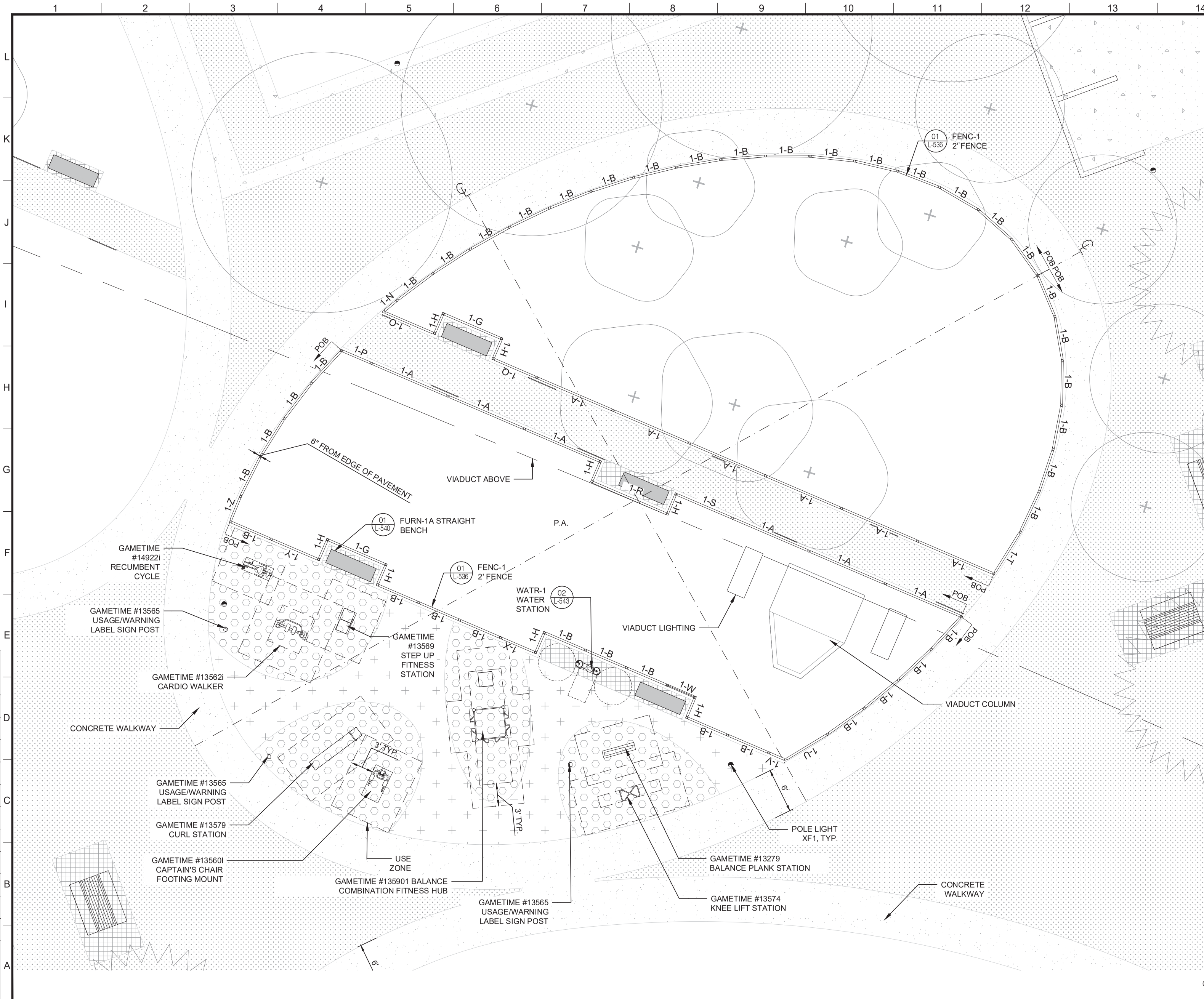

SHEET NOTES

1. SHOP DRAWINGS – SUBMIT PRIOR TO MOCKUP AND/OR FABRICATION. SEE SPECIFICATION.
2. MOCKUP – MOCKUP A PORTION AND SUBMIT PHOTOGRAPHS OF ALL JOINTS, WELDS, SEAMS AND FINISHES PRIOR TO FABRICATION. SEE SPECIFICATION.
3. FIELD VERIFY DIMENSIONS PRIOR TO FINAL FABRICATION.
4. ALL STAINLESS SHALL BE 316 GRADE WITH #4 FINISH UNLESS OTHERWISE NOTED.
5. MOUNTING/SUPPORT TO BE A DELEGATED DESIGN TO THE CONTRACT.

FENC-1 PANEL SCHEDULE

PANEL NUMBER	PANEL LENGTH	NUMBER OF SEGMENTS
1-A	11' - 1 1/2"	12
1-B	5' - 11 7/8"	39
1-G	8' - 6 3/4"	3
1-H	2' - 11 1/4"	8
1-N	2' - 4 7/8"	1
1-O	7' - 5 1/2"	1
1-P	4' - 4 7/8"	1
1-Q	6 '- 4 5/8"	1
1-R	11' - 0 7/8"	1
1-S	8' - 3 5/8"	1
1-T	6' - 7 3/8"	1
1-U	6' - 7 3/4"	1
1-V	2' - 4 7/8"	1
1-W	4' - 0 3/4"	1
1-X	5' - 1 1/2"	1
1-Y	6' - 11 1/4"	1
1-Z	3' - 7 5/8"	1

REVISION DATES (DESIGN STAGE ONLY)

PLANS PREPARED BY:
TETRA TECH, INC.
707 WILSHIRE BLVD. 23RD FLR.
LOS ANGELES, CA 90017
PHONE: (213) 239-8866

HargreavesJones
Hargreaves Jones Landscape Architecture

CITY OF LOS ANGELES
DEPARTMENT OF PUBLIC WORKS
BUREAU OF ENGINEERING

VERT. CONTROL: BM 12-04070, 1929 (NGVD29) - 1985 ADJUSTMENT
HORIZ. CONTROL: GPS, PID AE 1704, EPOCH 1991.35

SHEET TITLE: ENLARGEMENT: ST PARK - PLANTING AREA FENCE & FITNESS LAYOUT
PROJECT: SIXTH STREET PARK, ARTS AND RIVER CONNECTIVITY IMPROVEMENTS (PARC)
ADDRESS: SIXTH STREET OVER THE LOS ANGELES RIVER

GARY LEE MOORE, P.E., ENV SP — CITY ENGINEER
DESIGN GROUP — DATE:
LANDSCAPE ARCHITECT: MARY MARGARET JONES — LIC. NO. — 07/11/2022
DESIGNED BY: MARY MARGARET JONES
DRAWN BY: MEGAN ESOPENKO
CHECKED BY: GAVIN MCMILLAN
APPROVED BY: MARY MARGARET JONES

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INDEX NO.
BUILDING NO.

ENGINEERING
CITY OF LOS ANGELES

WORK ORDER NO. E700235D
FILE NO. --
DRAWING NO. L-409
SHEET 135 OF 295 SHEETS

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BID SET - NOT FOR CONSTRUCTION - 07/11/2022

SHEET NOTES

1. SHOP DRAWINGS – SUBMIT PRIOR TO MOCKUP AND/OR FABRICATION. SEE SPECIFICATION.
2. MOCKUP – MOCKUP A PORTION AND SUBMIT PHOTOGRAPHS OF ALL JOINTS, WELDS, SEAMS AND FINISHES PRIOR TO FABRICATION. SEE SPECIFICATION.
3. FIELD VERIFY DIMENSIONS PRIOR TO FINAL FABRICATION.
4. ALL STAINLESS SHALL BE 316 GRADE WITH #4 FINISH UNLESS OTHERWISE NOTED.

FENC-2 PANEL SCHEDULE

PANEL NUMBER	PANEL LENGTH	NUMBER OF SEGMENTS
2-B	5' - 11 7/8"	62
2-F	3' - 6 1/4"	4
2-G	4' - 9 1/4"	2
2-H	1' - 7 5/8"	1

0 4' 8' 16'
SCALE 1" = 8'

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REVISION DATES (DESIGN STAGE ONLY)

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707 WILSHIRE BLVD, 23RD FLR.
LOS ANGELES, CA 90017
PHONE: (213) 239-8866

HargreavesJones
Hargreaves Jones Landscape Architecture

CITY OF LOS ANGELES — DEPARTMENT OF PUBLIC WORKS — BUREAU OF ENGINEERING

VERT. CONTROL: BM 12-04070, 1929 (NGVD29) - 1985 ADJUSTMENT
HORIZ. CONTROL: GPS, PID AE 1704, EPOCH 1991.35

SHEET TITLE: ENLARGEMENT: EAST PARK - DOG PARK LAYOUT
PROJECT: SIXTH STREET PARK, ARTS AND RIVER CONNECTIVITY IMPROVEMENTS (PARC)
ADDRESS: SIXTH STREET OVER THE LOS ANGELES RIVER

GARY LEE MOORE, P.E., ENV SP — CITY ENGINEER — DATE:
DESIGN GROUP
LANDSCAPE ARCHITECT: MARY MARGARET JONES LIC. NO. 07/11/2022
DESIGNED BY: MARY MARGARET JONES
DRAWN BY: MEGAN ESOPENKO
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APPROVED BY: MARY MARGARET JONES

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NO. | REVISIONS | DATE | BY

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BUILDING NO.

ENGINEERING — CITY OF LOS ANGELES

WORK ORDER NO. E700235D
FILE NO. --
DRAWING NO. L-410
SHEET 136 OF 295 SHEETS

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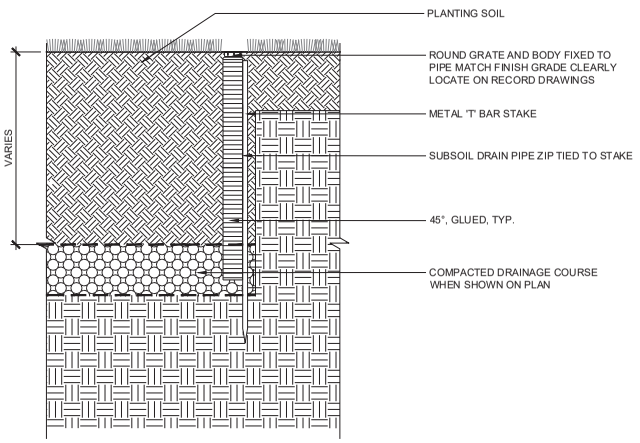
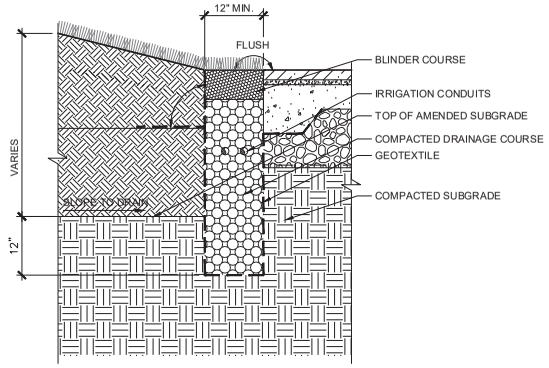
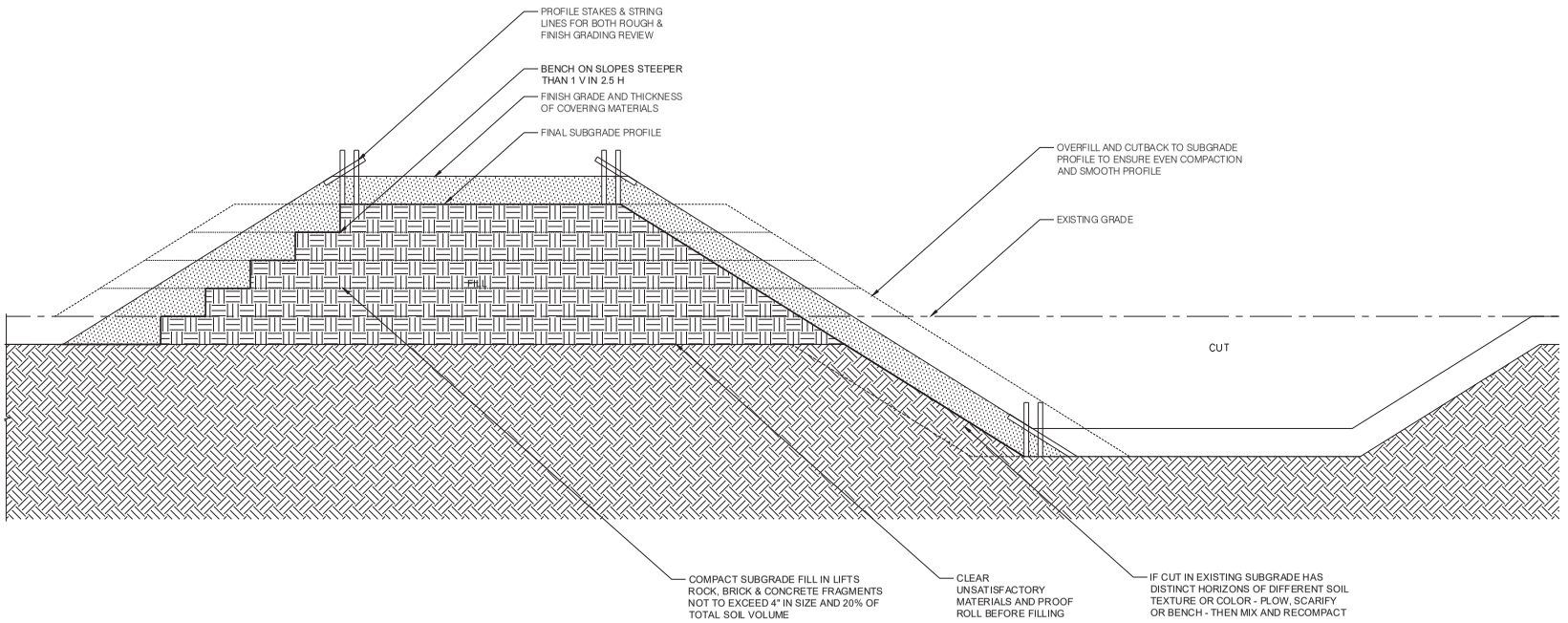


03 ROOT ZONE INSPECTION RISER
SCALE 1" = 1'



02 SUBDRAIN: FRENCH DRAIN - SSD-1
SCALE 1" = 1'



01 GRADING LANDFORMS - TYPICAL
SCALE 1" = 1'-0"

DIMENSIONS (DESIGN STAGE ONLY)

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CITY OF LOS ANGELES DEPARTMENT OF PUBLIC WORKS BUREAU OF ENGINEERING

ENGINEERING

NO.	REVISIONS	DATE	BY

BUILDING NO.

INDEX NO.

THIS PLAN WAS ELECTRONICALLY SIGNED AND STAMPED

GARY LEE MOORE, P.E., ENV SP — CITY ENGINEER — DATE

DESIGN GROUP

LANDSCAPE ARCHITECT: MARY MARGARET JONES — LIC. NO. — 07/11/2022

DESIGNED BY: MARY MARGARET JONES

DRAWN BY: MEGAN ESOPENKO

CHECKED BY: GAVIN MCMILLAN

APPROVED BY: MARY MARGARET JONES

PLANS PREPARED BY:
TETRA TECH, INC.
707 WILSHIRE BLVD. 23RD FLR.
LOS ANGELES, CA 90017
PHONE: (213) 239-9866

Hargreaves Jones
Hargreaves Jones Landscape Architecture

VERT. CONTROL: NAVD 88 (GEOID18) - 0.000 ADJUSTMENT
HORIZ. CONTROL: GPS, RADIAL, ITRA, EPOCH 1991.35

SHEET TITLE: DETAILS - GRADING

PROJECT: SIXTH STREET PARK, ARTS AND RIVER CONNECTIVITY IMPROVEMENTS (PARC)

ADDRESS: SIXTH STREET OVER THE LOS ANGELES RIVER

WORK ORDER NO. E700235D

FILE NO. –

DRAWING NO. L-505

SHEET 137 OF 295 SHEETS

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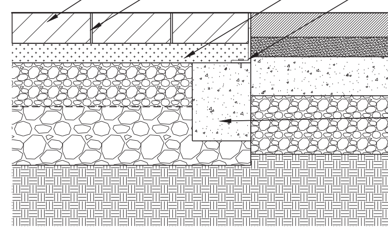
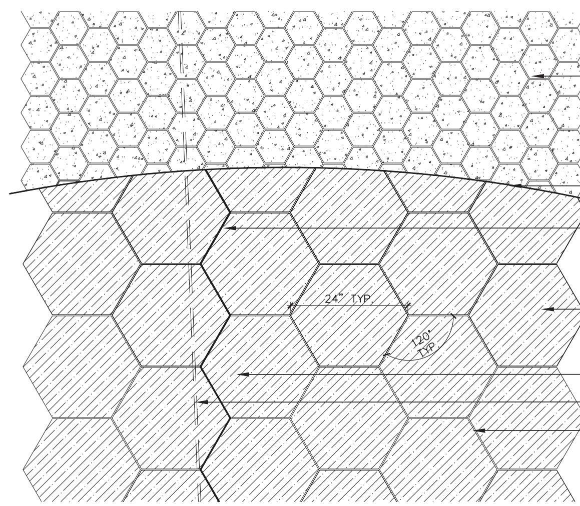
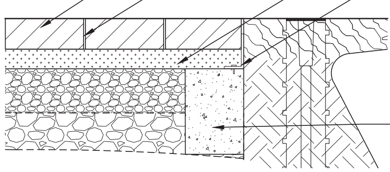


02 EDGE RESTRAINT AT STONE PAVING
SCALE 2" = 1'-0"



01 STONE PAVING - PVMT-1
SCALE 1" = 1'-0"



03 EDGE RESTRAINT AROUND TREE PLANTING IN PAVEMENT
SCALE 2" = 1'-0"

PLANS PREPARED BY:
TETRA TECH, INC.
707 WILSHIRE BLVD, 23RD FLR.
LOS ANGELES, CA 90017
PHONE: (213) 239-8866

HargreavesJones
Hargreaves Jones Landscape Architecture

CITY OF LOS ANGELES — DEPARTMENT OF PUBLIC WORKS — BUREAU OF ENGINEERING

VERT. CONTROL: BM 12-04070, 1929 (NGVD29) - 1985 ADJUSTMENT
HORIZ. CONTROL: GPS, PID AE 1704, EPOCH 1991.35

SHEET TITLE: DETAILS - PAVING & CURBS
PROJECT: SIXTH STREET PARK, ARTS AND RIVER CONNECTIVITY IMPROVEMENTS (PARC)
ADDRESS: SIXTH STREET OVER THE LOS ANGELES RIVER

GARY LEE MOORE, P.E., ENV SP — CITY ENGINEER
DESIGN GROUP — DATE:
LANDSCAPE ARCHITECT: MARY MARGARET JONES — LIC. NO. — 07/11/2022
DESIGNED BY: MARY MARGARET JONES
DRAWN BY: MEGAN ESOPENKO
CHECKED BY: GAVIN MCMILLAN
APPROVED BY: MARY MARGARET JONES

THIS PLAN WAS ELECTRONICALLY SIGNED AND STAMPED.

NO. | REVISIONS: | DATE | BY:

INDEX NO.
BUILDING NO.

ENGINEERING
CITY OF LOS ANGELES

WORK ORDER NO. E700235D
FILE NO. --
DRAWING NO. L-530
SHEET 138 OF 295 SHEETS

REVISION DATES (DESIGN STAGE ONLY)

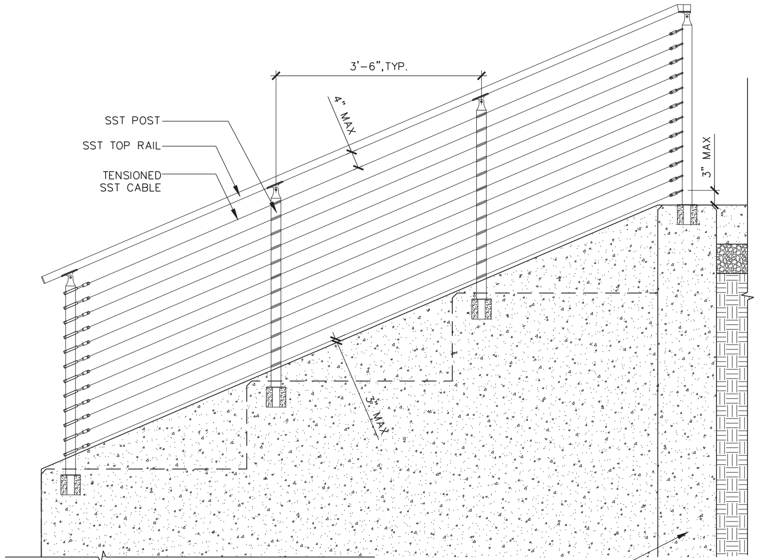
Sheet Version 3.0

2022-07-05 9:07:17 PM - C:\USERS\MESOPENKO\ONEDRIVE - HARGREAVES\SSV 1601 - SIXTH STREET VIADUCT\300_CREATE\310_HA WORKING FILES\06_TECHNICAL\06_100-CD\50_SHEETS\L-530-PAVING AND CURBS.DWG - MEGAN ESOPENKO

BID SET - NOT FOR CONSTRUCTION - 07/11/2022

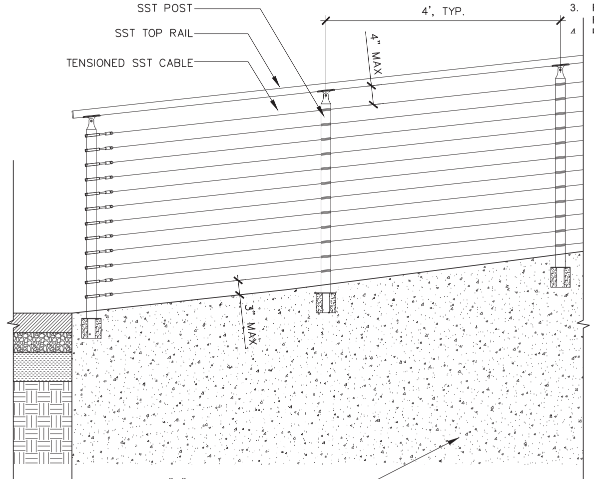
SHEET NOTES

1. SHOP DRAWINGS – SUBMIT PRIOR TO MOCKUP AND/OR FABRICATION. SHOP DRAWINGS SHALL SHOW POST LAYOUT AND GATES. SEE SPECIFICATION.
2. MOCKUP – MOCKUP A PORTION AND SUBMIT PHOTOGRAPHS OF ALL JOINTS, WELDS, SEAMS AND FINISHES PRIOR TO FABRICATION. SEE SPECIFICATION.
3. FIELD VERIFY DIMENSIONS PRIOR TO FINAL FABRICATION.
4. PROPOSED 8' FENCE ALONG THE NORTHERN



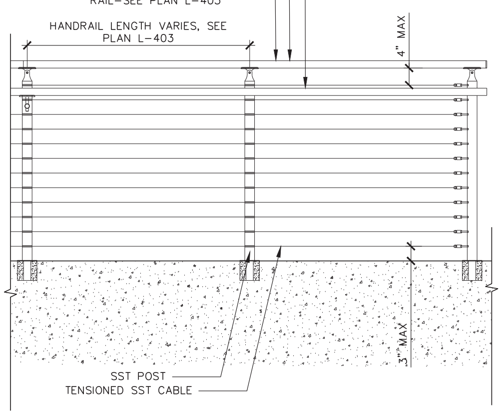
ELEVATION

04 GRAL-1 AT TERRACE STARIS
SCALE 1" = 1'-0"

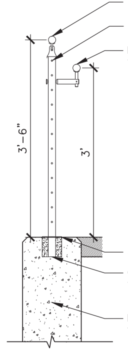


ELEVATION

02 GRAL-1 AT STAGE RETAINING WALL
SCALE 1" = 1'-0"

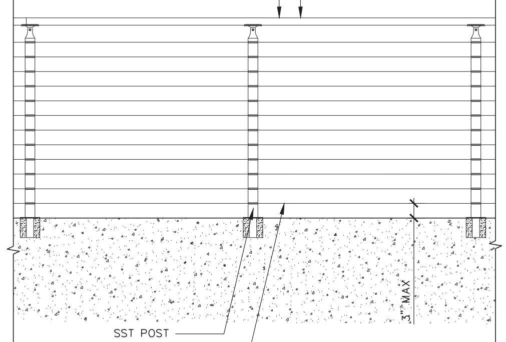


ELEVATION



SECTION

03 GRAL-2 AT TUNNEL RETAINING WALL
SCALE 1" = 1'-0"



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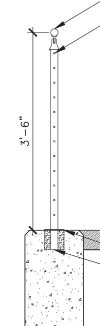

SECTION

01 GRAL-1 AT BACK OF BENT RETAINING WALL
SCALE 1" = 1'-0"

PLANS PREPARED BY:
TETRA TECH, INC.
707 WILSHIRE BLVD, 23RD FLR.
LOS ANGELES, CA 90017
PHONE: (213) 239-8866

HargreavesJones
Hargreaves Jones Landscape Architecture

CITY OF LOS ANGELES — DEPARTMENT OF PUBLIC WORKS — BUREAU OF ENGINEERING

VERT. CONTROL: BM 12-04070, 1929 (NGVD29) - 1985 ADJUSTMENT
HORIZ. CONTROL: GPS, PID AE 1704, EPOCH 1991.35

SHEET TITLE: DETAILS - GUARDRAIL
PROJECT: SIXTH STREET PARK, ARTS AND RIVER CONNECTIVITY IMPROVEMENTS (PARC)
ADDRESS: SIXTH STREET OVER THE LOS ANGELES RIVER

WORK ORDER NO. E700235D
FILE NO. --
DRAWING NO. L-535
SHEET 139 OF 295 SHEETS

GARY LEE MOORE, P.E., ENV SP — CITY ENGINEER
DESIGN GROUP — DATE:
LANDSCAPE ARCHITECT: MARY MARGARET JONES — LIC. NO. — 07/11/2022
DESIGNED BY: MARY MARGARET JONES
DRAWN BY: MEGAN ESOPENKO
CHECKED BY: GAVIN MCMILLAN
APPROVED BY: MARY MARGARET JONES

THIS PLAN WAS ELECTRONICALLY SIGNED AND STAMPED.

NO.	REVISIONS:	DATE	BY:

INDEX NO.

BUILDING NO.

ENGINEERING — CITY OF LOS ANGELES

REVISION DATES (DESIGN STAGE ONLY)

Sheet Version 3.0

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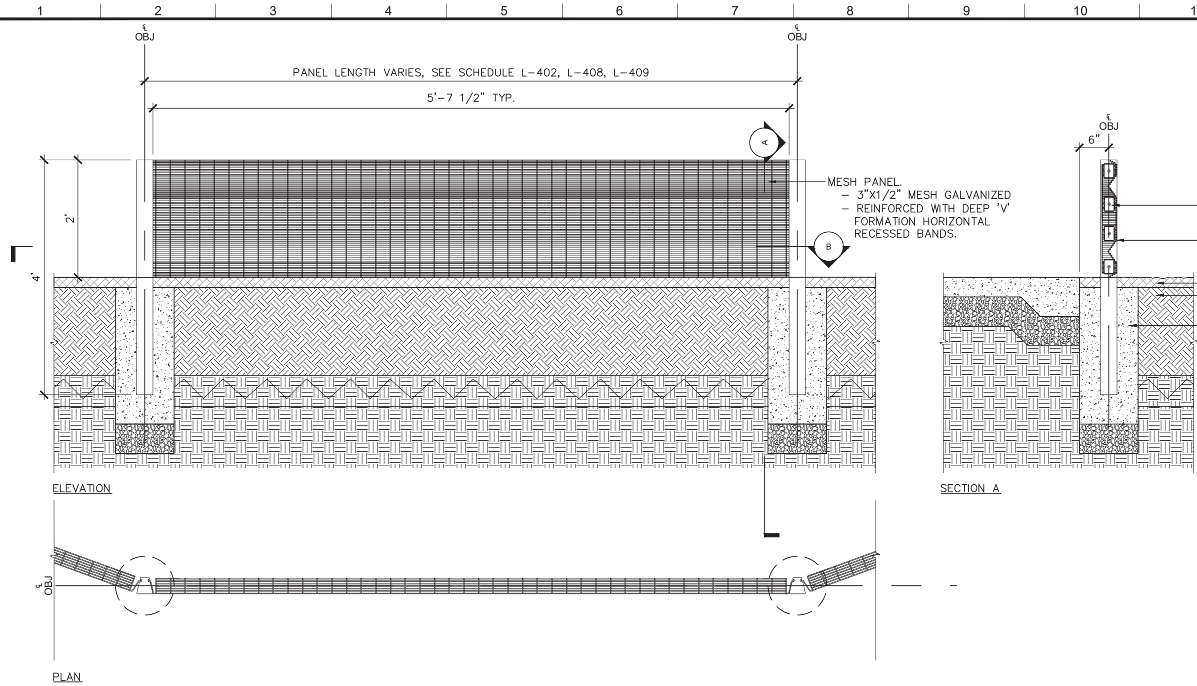
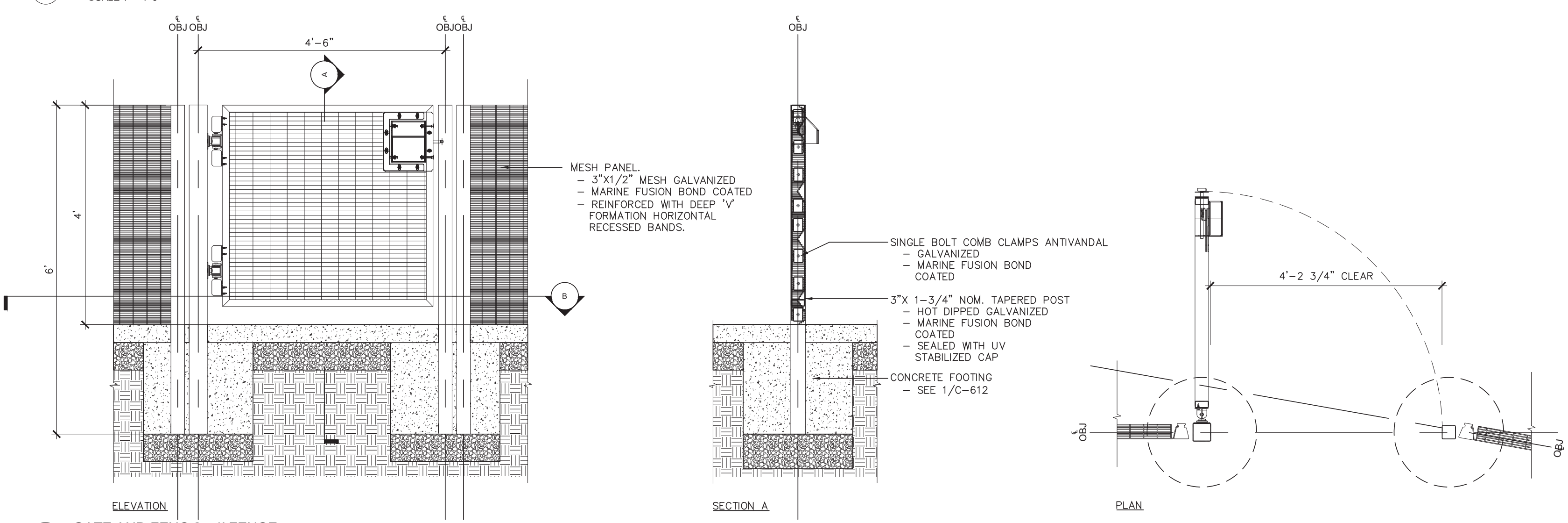
BID SET - NOT FOR CONSTRUCTION - 07/11/2022



02 FENC 1 - 2' FENCE
SCALE 1" = 1'-0"



01 GATE AND FENC 2 - 4' FENCE
SCALE 1" = 1'-0"

SHEET NOTES

1. SHOP DRAWINGS – SUBMIT PRIOR TO MOCKUP AND/OR FABRICATION. SHOP DRAWINGS SHALL SHOW POST LAYOUT AND GATES. SEE SPECIFICATION.
2. MOCKUP – MOCKUP A PORTION AND SUBMIT PHOTOGRAPHS OF ALL JOINTS, WELDS, SEAMS AND FINISHES PRIOR TO FABRICATION. SEE SPECIFICATION.
3. FIELD VERIFY DIMENSIONS PRIOR TO FINAL FABRICATION.
4. PROPOSED 8' FENCE ALONG THE NORTHERN

REVISION DATES (DESIGN STAGE ONLY)

Sheet Version 3.0

PLANS PREPARED BY:

TETRA TECH, INC.
707 WILSHIRE BLVD. 23RD FLR.
LOS ANGELES, CA 90017
PHONE: (213) 239-8866

HargreavesJones
Hargreaves Jones Landscape Architecture

CITY OF LOS ANGELES — DEPARTMENT OF PUBLIC WORKS — BUREAU OF ENGINEERING

VERT. CONTROL: BM 12-04070, 1929 (NGVD29) - 1985 ADJUSTMENT
HORIZ. CONTROL: GPS, PID AE 1704, EPOCH 1991.35

SHEET TITLE: DETAILS - FENCE

PROJECT: SIXTH STREET PARK, ARTS AND RIVER CONNECTIVITY IMPROVEMENTS (PARC)

ADDRESS: SIXTH STREET OVER THE LOS ANGELES RIVER

WORK ORDER NO. E700235D
FILE NO. --
DRAWING NO. L-536
SHEET 140 OF 295 SHEETS

GARY LEE MOORE, P.E., ENV SP — CITY ENGINEER
DESIGN GROUP — DATE:
LANDSCAPE ARCHITECT: MARY MARGARET JONES — LIC. NO. — 07/11/2022
DESIGNED BY: MARY MARGARET JONES
DRAWN BY: MEGAN ESOPENKO
CHECKED BY: GAVIN MCMILLAN
APPROVED BY: MARY MARGARET JONES

THIS PLAN WAS ELECTRONICALLY SIGNED AND STAMPED.

NO.	REVISIONS:	DATE	BY:

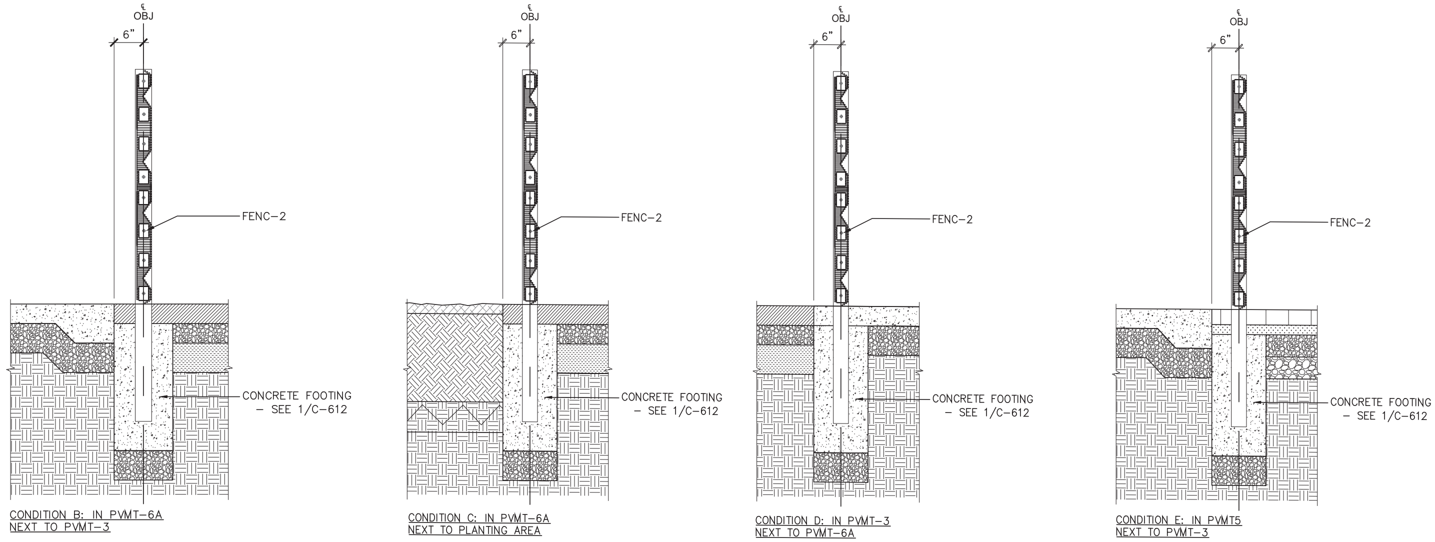
INDEX NO.

BUILDING NO.

ENGINEERING — CITY OF LOS ANGELES

2022-07-05 9:25:40 PM - C:\USERS\MESOPENKO\ONEDRIVE - HARGREAVES\SSV 1601 - SIXTH STREET VIADUCT\300_CREATE\310_HA WORKING FILES\06_TECHNICAL\06_100-CD\50_SHEETS\L-535-RAILS-FENCES-SCREENS AND BARRIERS.DWG - MEGAN ESOPENKO

BID SET - NOT FOR CONSTRUCTION - 07/11/2022



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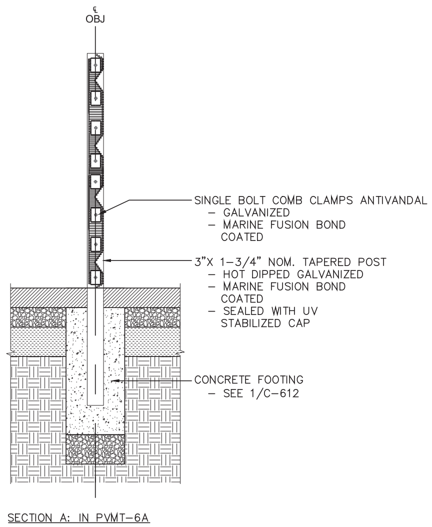

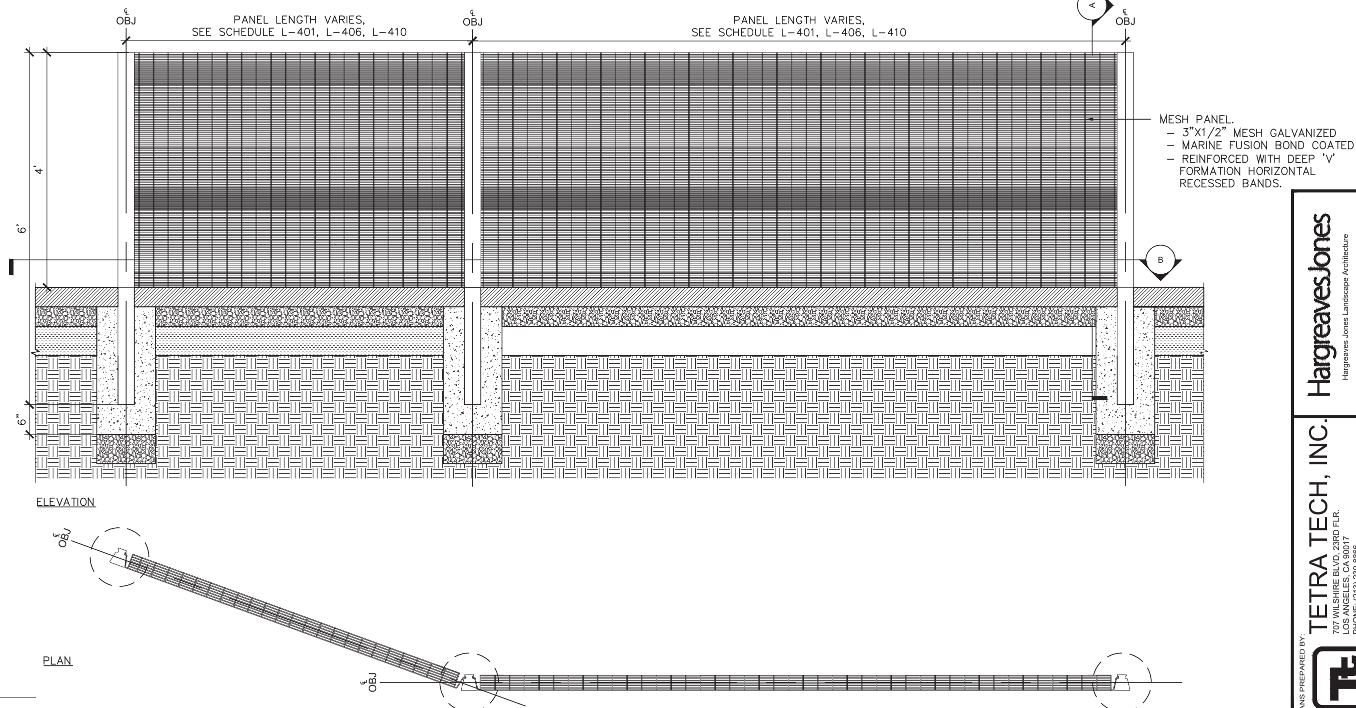

01 FENC 2 - 4' FENCE
SCALE 1" = 1'-0"

PLANS PREPARED BY:
TETRA TECH, INC.
707 WILSHIRE BLVD. 23RD FLR.
LOS ANGELES, CA 90017
PHONE: (213) 239-8866

HargreavesJones
Hargreaves Jones Landscape Architecture

CITY OF LOS ANGELES — DEPARTMENT OF PUBLIC WORKS — BUREAU OF ENGINEERING

GARY LEE MOORE, P.E., ENV SP — CITY ENGINEER
DESIGN GROUP — DATE:
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NO.	REVISIONS:	DATE:	BY:

INDEX NO.
BUILDING NO.

VERT. CONTROL: BM 12-04070, 1929 (NGVD29) - 1985 ADJUSTMENT
HORIZ. CONTROL: GPS; PID AE 1704, EPOCH 1991.35

SHEET TITLE: DETAILS - FENCE
PROJECT: SIXTH STREET PARK, ARTS AND RIVER CONNECTIVITY IMPROVEMENTS (PARC)
ADDRESS: SIXTH STREET OVER THE LOS ANGELES RIVER

WORK ORDER NO. E700235D
FILE NO. --
DRAWING NO. L-537
SHEET 141 OF 295 SHEETS

REVISION DATES (DESIGN STAGE ONLY)

THE CITY OF LOS ANGELES OR ITS OFFICERS OR AGENTS SHALL NOT BE RESPONSIBLE FOR THE ACCURACY OR COMPLETENESS OF ELECTRONIC COPIES OF THIS PLAN SHEET.

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BID SET - NOT FOR CONSTRUCTION - 07/11/2022

SHEET NOTES

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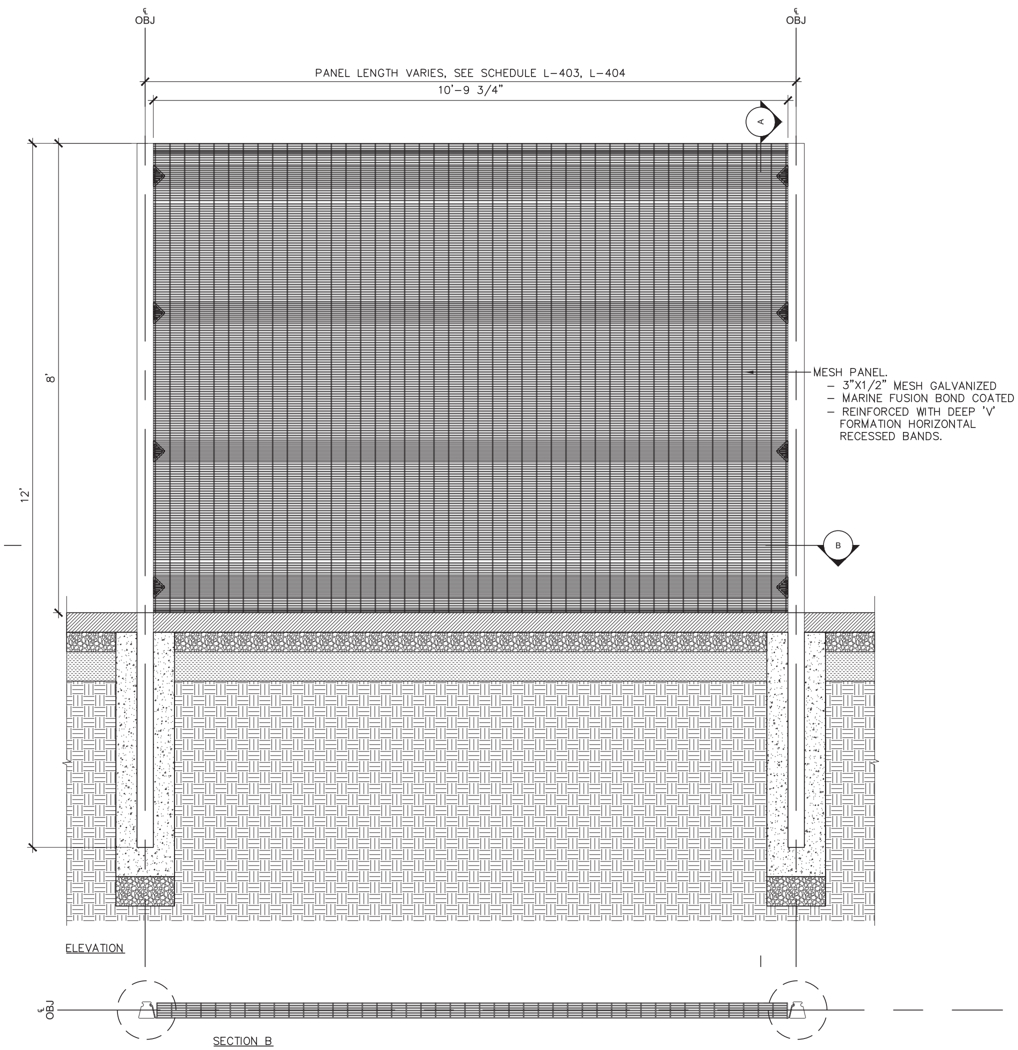
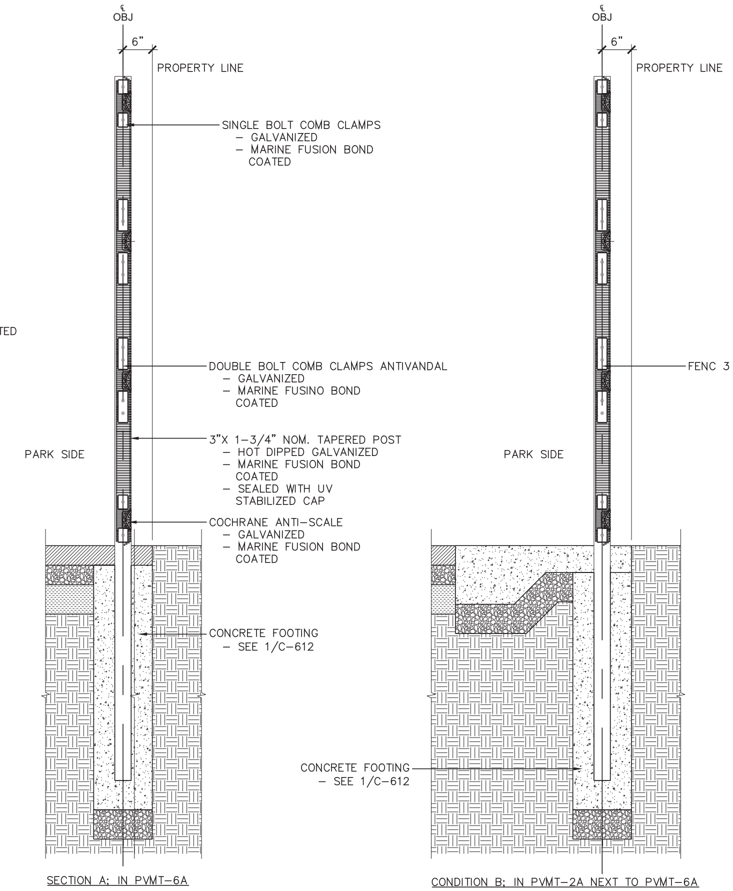
2. MOCKUP – MOCKUP A PORTION AND SUBMIT PHOTOGRAPHS OF ALL JOINTS, WELDS, SEAMS AND FINISHES PRIOR TO FABRICATION. SEE SPECIFICATION.
3. FIELD VERIFY DIMENSIONS PRIOR TO FINAL FABRICATION.
4. PROPOSED 8' FENCE ALONG THE NORTHERN PROPERTY LINE BETWEEN MISSION ROAD AND ANDERSON STREET SHALL BE CONSTRUCTED WITH AN INTEGRAL RETAINING CURB AS PER 11/C-612.





01 FENC 3 - 8' FENCE
SCALE 1" = 1'-0"

PLANS PREPARED BY:
TETRA TECH, INC.
707 WILSHIRE BLVD. 23RD FLR.
LOS ANGELES, CA 90017
PHONE: (213) 239-8866

HargreavesJones
Hargreaves Jones Landscape Architecture

CITY OF LOS ANGELES — DEPARTMENT OF PUBLIC WORKS — BUREAU OF ENGINEERING

VERT. CONTROL: BM 12-04070, 1929 (NGVD29) - 1985 ADJUSTMENT
HORIZ. CONTROL: GPS, PID AE 1704, EPOCH 1991.35

SHEET TITLE: DETAILS - FENCE
PROJECT: SIXTH STREET PARK, ARTS AND RIVER CONNECTIVITY IMPROVEMENTS (PARC)
ADDRESS: SIXTH STREET OVER THE LOS ANGELES RIVER

GARY LEE MOORE, P.E., ENV SP — CITY ENGINEER
DESIGN GROUP — DATE:
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CHECKED BY: GAVIN MCMILLAN
APPROVED BY: MARY MARGARET JONES

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INDEX NO.
BUILDING NO.

ENGINEERING — CITY OF LOS ANGELES

WORK ORDER NO. E700235D
FILE NO. --
DRAWING NO. L-538
SHEET 142 OF 295 SHEETS

REVISION DATES (DESIGN STAGE ONLY)

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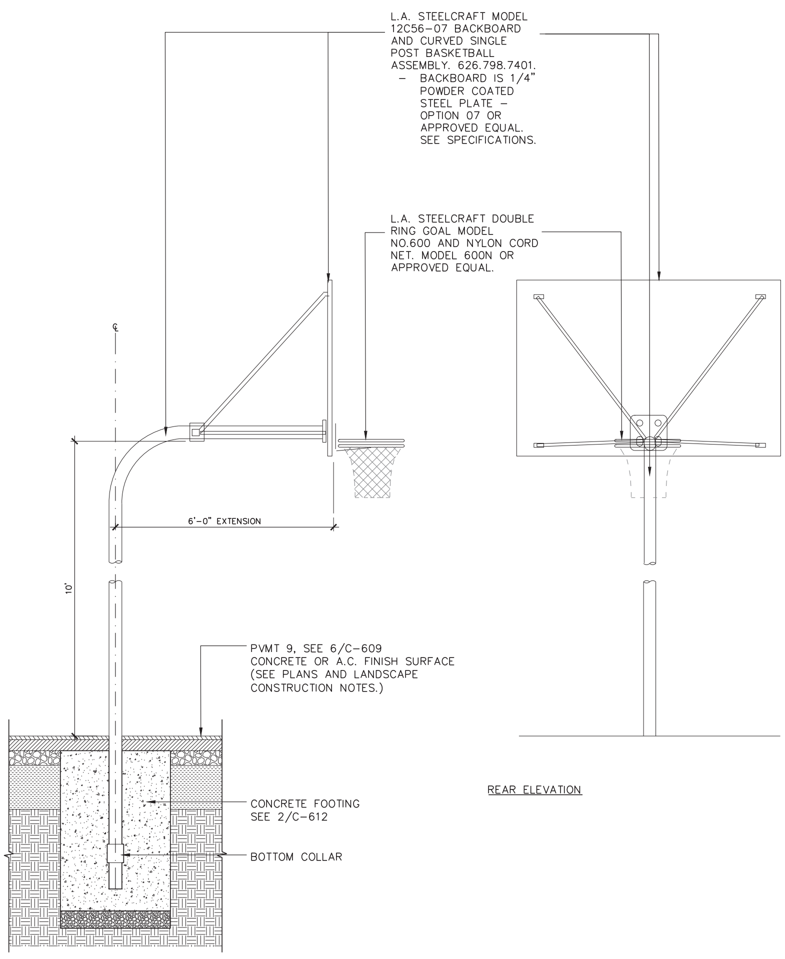
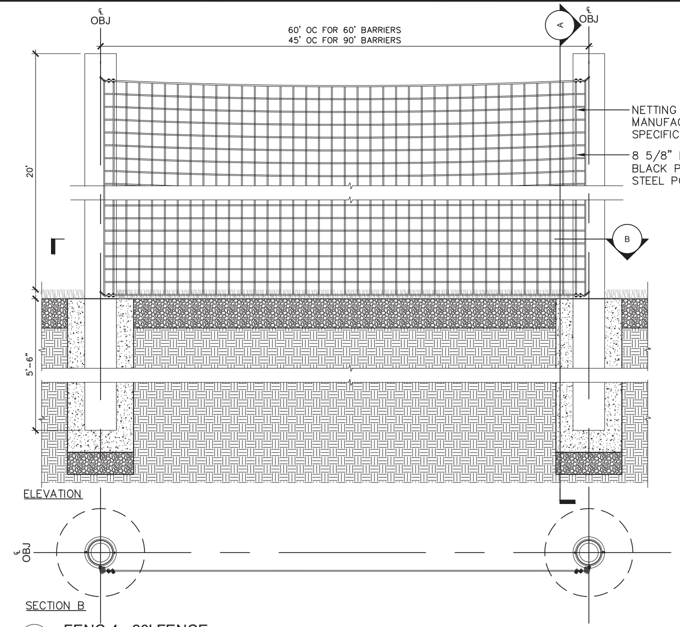
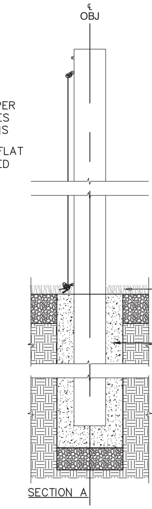
BID SET - NOT FOR CONSTRUCTION - 07/11/2022

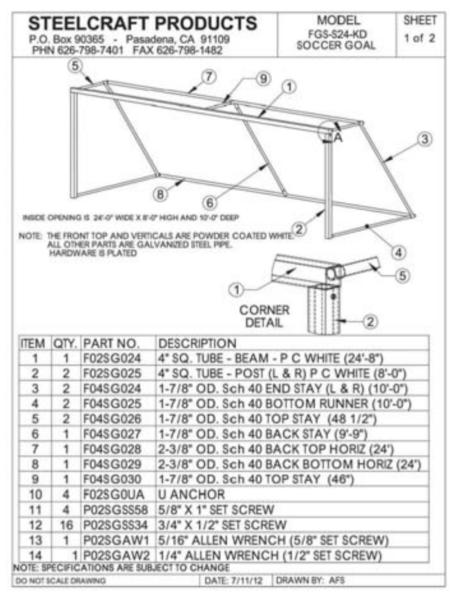


03 BASKETBALL DETAIL
SCALE 3/4"=1'-0"





02 FENC 4 - 20' FENCE
SCALE 3/4"=1'-0"



STEELCRAFT PRODUCTS
P.O. Box 90365 - Pasadena, CA 91109
PHN 626-798-7401 FAX 626-798-1482

MODEL FGS-S24-KD SOCCER GOAL — SHEET 1 of 2

ITEM	QTY.	PART NO.	DESCRIPTION
1	1	F02SG024	4" SQ. TUBE - BEAM - P C WHITE (24'-8")
2	2	F02SG025	4" SQ. TUBE - POST (L & R) P C WHITE (8'-0")
3	2	F04SG024	1-7/8" OD. Sch 40 END STAY (L & R) (10'-0")
4	2	F04SG025	1-7/8" OD. Sch 40 BOTTOM RUNNER (10'-0")
5	2	F04SG026	1-7/8" OD. Sch 40 TOP STAY (48 1/2")
6	1	F04SG027	1-7/8" OD. Sch 40 BACK STAY (9'-9")
7	1	F04SG028	2-3/8" OD. Sch 40 BACK TOP HORIZ (24')
8	1	F04SG029	2-3/8" OD. Sch 40 BACK BOTTOM HORIZ (24')
9	1	F04SG030	1-7/8" OD. Sch 40 TOP STAY (46")
10	4	F02SG0UA	U ANCHOR
11	4	P02SGSS58	5/8" X 1" SET SCREW
12	16	P02SGSS34	3/4" X 1/2" SET SCREW
13	1	P02SGAW1	5/16" ALLEN WRENCH (5/8" SET SCREW)
14	1	P02SGAW2	1/4" ALLEN WRENCH (1/2" SET SCREW)

NOTE: SPECIFICATIONS ARE SUBJECT TO CHANGE
DO NOT SCALE DRAWING | DATE: 7/11/12 | DRAWN BY: AFS

NOTE
1. SEE CIVIL 3/C-612 FOR SOCCER NET POST MOUNTING
2. THIS PRODUCT IS SHOWN FOR DESIGN PURPOSED ONLY. CONTRACTOR MAY SUBMIT AN APPROVED EQUAL.

01 SOCCER GOAL DETAIL
NOT TO SCALE

PLANS PREPARED BY:
TETRA TECH, INC.
707 WILSHIRE BLVD. 23RD FLR.
LOS ANGELES, CA 90017
PHONE: (213) 239-8866

HargreavesJones
Hargreaves Jones Landscape Architecture

CITY OF LOS ANGELES — DEPARTMENT OF PUBLIC WORKS — BUREAU OF ENGINEERING

VERT. CONTROL: BM 12-04070, 1929 (NGVD29) - 1985 ADJUSTMENT
HORIZ. CONTROL: GPS, PID AE 1704, EPOCH 1991.35
SHEET TITLE: DETAILS - SPORTS
PROJECT: SIXTH STREET PARK, ARTS AND RIVER CONNECTIVITY IMPROVEMENTS (PARC)
ADDRESS: SIXTH STREET OVER THE LOS ANGELES RIVER

GARY LEE MOORE, P.E., ENV SP — CITY ENGINEER
DESIGN GROUP — DATE:
LANDSCAPE ARCHITECT: MARY MARGARET JONES — LIC. NO. — 07/11/2022
DESIGNED BY: MARY MARGARET JONES
DRAWN BY: MEGAN ESOPENKO
CHECKED BY: GAVIN MCMILLAN
APPROVED BY: MARY MARGARET JONES

THIS PLAN WAS ELECTRONICALLY SIGNED AND STAMPED.

NO. | REVISIONS: | DATE | BY:
INDEX NO.
BUILDING NO.
ENGINEERING — CITY OF LOS ANGELES

WORK ORDER NO. E700235D
FILE NO. --
DRAWING NO. L-539
SHEET 143 OF 295 SHEETS

REVISION DATES (DESIGN STAGE ONLY)

Sheet Version 3.0

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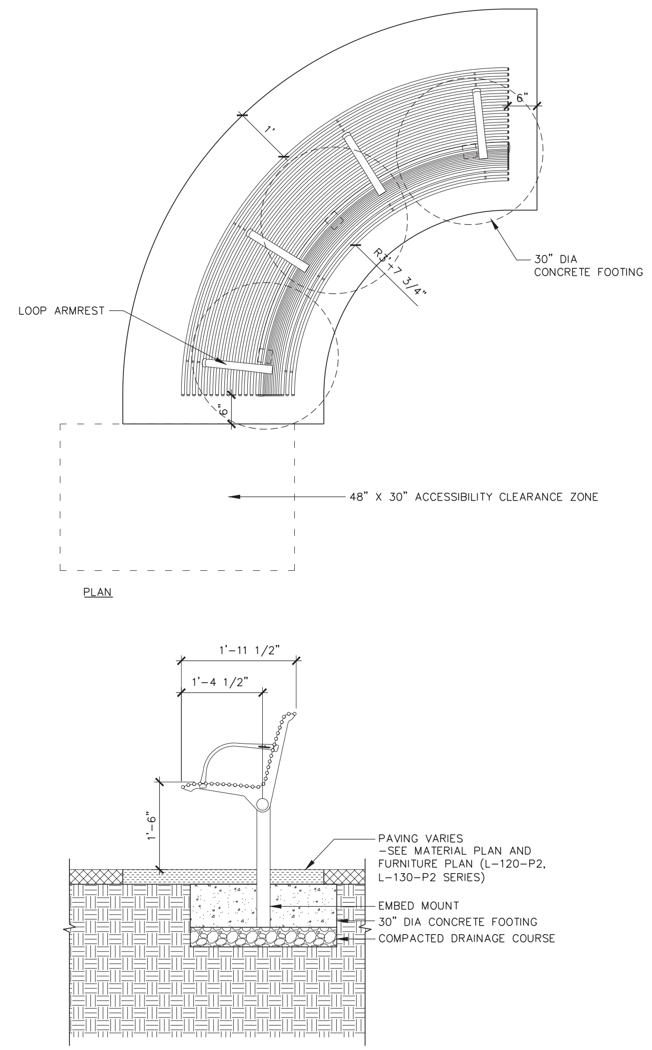
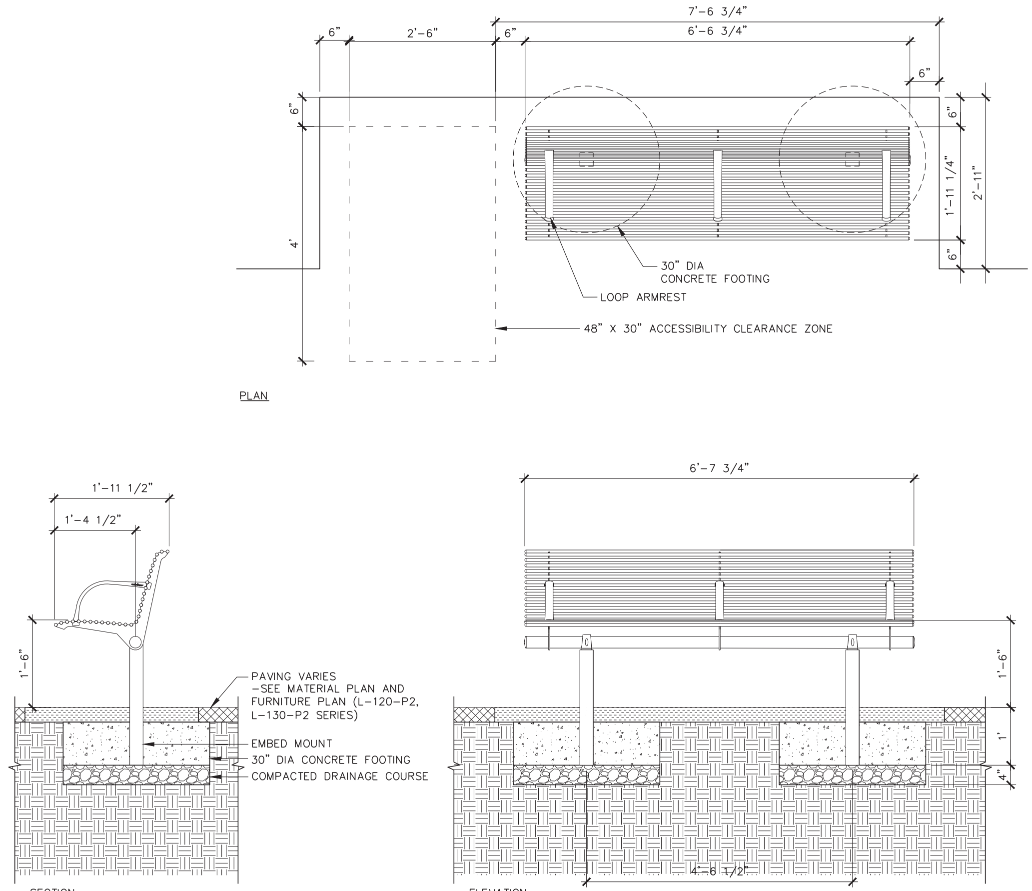
BID SET - NOT FOR CONSTRUCTION - 07/11/2022



02 FURN 1B - CURVED BENCH

SCALE 1" = 1'-0"



01 FURN 1A - STRAIGHT BENCH

SCALE 1" = 1'-0"

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REVISION DATES (DESIGN STAGE ONLY)

PLANS PREPARED BY:

TETRA TECH, INC.
707 WILSHIRE BLVD, 23RD FLR.
LOS ANGELES, CA 90017
PHONE: (213) 239-8866

HargreavesJones
Hargreaves Jones Landscape Architecture

CITY OF LOS ANGELES — DEPARTMENT OF PUBLIC WORKS — BUREAU OF ENGINEERING

VERT. CONTROL: BM 12-04070, 1929 (NGVD29) - 1985 ADJUSTMENT
HORIZ. CONTROL: GPS, PID AE 1704, EPOCH 1991.35

SHEET TITLE: DETAILS - FURNITURE

PROJECT: SIXTH STREET PARK, ARTS AND RIVER CONNECTIVITY IMPROVEMENTS (PARC)

ADDRESS: SIXTH STREET OVER THE LOS ANGELES RIVER

GARY LEE MOORE, P.E., ENV SP — CITY ENGINEER
DESIGN GROUP — DATE:
LANDSCAPE ARCHITECT: MARY MARGARET JONES — LIC. NO. — 07/11/2022
DESIGNED BY: MARY MARGARET JONES
DRAWN BY: MEGAN ESOPENKO
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INDEX NO.

BUILDING NO.

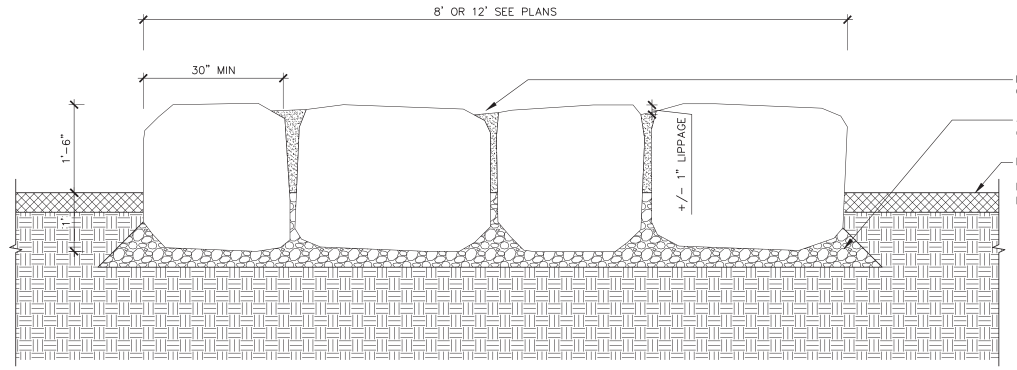
ENGINEERING — CITY OF LOS ANGELES

WORK ORDER NO. E700235D
FILE NO. --
DRAWING NO. L-540
SHEET 144 OF 295 SHEETS

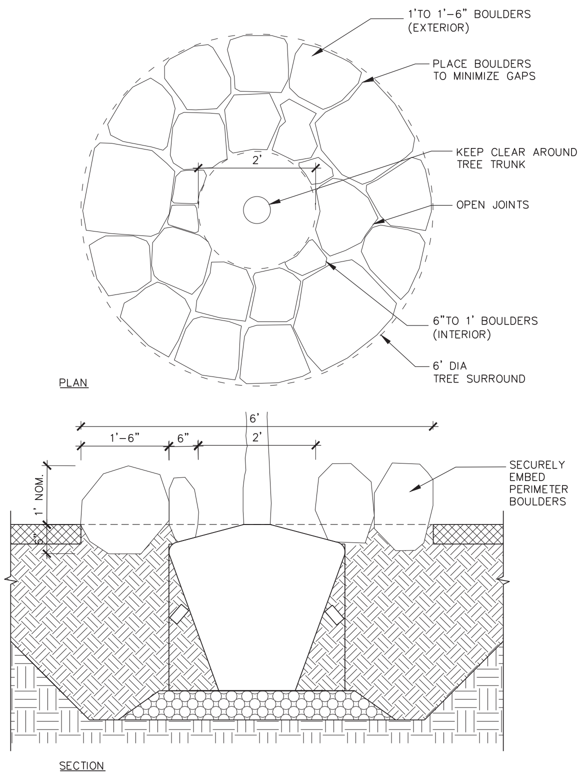
2022-07-05 9:26:32 PM - C:\USERS\MESOPENKO\ONEDRIVE - HARGREAVES\SSV 1601 - SIXTH STREET VIADUCT\300_CREATE\310_HA WORKING FILES\06_TECHNICAL\06_100-CD\50_SHEETS\L-540-SITE FURNISHINGS.DWG - MEGAN ESOPENKO

Sheet Version 3.0

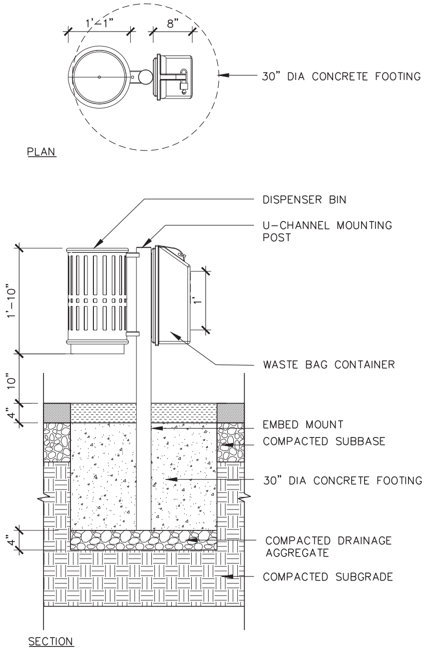
BID SET - NOT FOR CONSTRUCTION - 07/11/2022



04 BLDR 2 - LARGE BOULDERS
SCALE 1" = 1'-0"



03 BLDR 1 - SMALL BOULDERS
SCALE 1" = 1'-0"



02 FURN 3 - DOG WASTE UNIT
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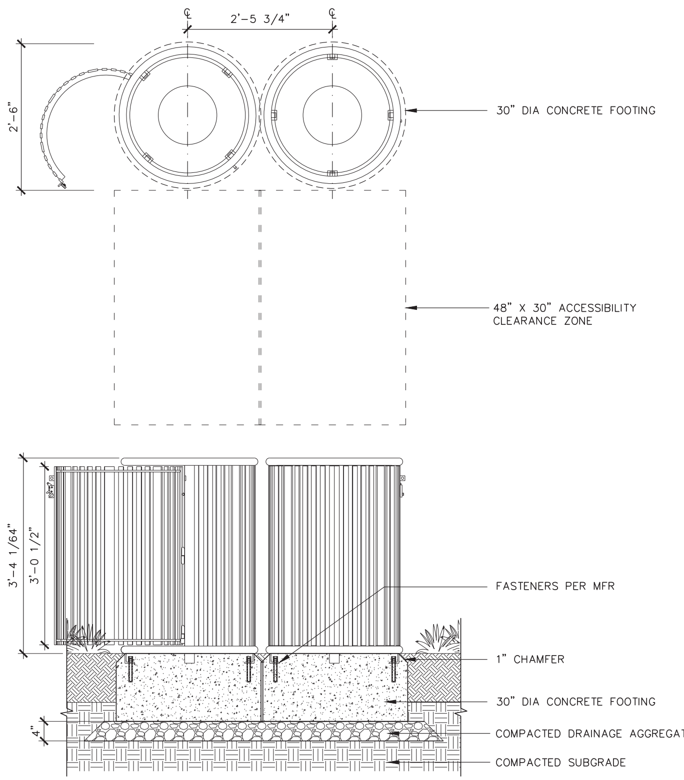

01 FURN 2 - WASTE RECEPTACLE
SCALE 1" = 1'-0"

PLANS PREPARED BY:
TETRA TECH, INC.
707 WILSHIRE BLVD, 23RD FLR.
LOS ANGELES, CA 90017
PHONE: (213) 239-8866

HargreavesJones
Hargreaves Jones Landscape Architecture

CITY OF LOS ANGELES — DEPARTMENT OF PUBLIC WORKS — BUREAU OF ENGINEERING

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HORIZ. CONTROL: GPS, PID AE 1704, EPOCH 1991.35

SHEET TITLE: DETAILS - FURNITURE
PROJECT: SIXTH STREET PARK, ARTS AND RIVER CONNECTIVITY IMPROVEMENTS (PARC)
ADDRESS: SIXTH STREET OVER THE LOS ANGELES RIVER

GARY LEE MOORE, P.E., ENV SP — CITY ENGINEER
DESIGN GROUP — DATE:
LANDSCAPE ARCHITECT: MARY MARGARET JONES — LIC. NO. — 07/11/2022
DESIGNED BY: MARY MARGARET JONES
DRAWN BY: MEGAN ESOPENKO
CHECKED BY: GAVIN MCMILLAN
APPROVED BY: MARY MARGARET JONES

THIS PLAN WAS ELECTRONICALLY SIGNED AND STAMPED

NO. REVISIONS: | DATE | BY:

INDEX NO.
BUILDING NO.

ENGINEERING — CITY OF LOS ANGELES

WORK ORDER NO. E700235D
FILE NO. --
DRAWING NO. L-541
SHEET 145 OF 295 SHEETS

REVISION DATES (DESIGN STAGE ONLY)

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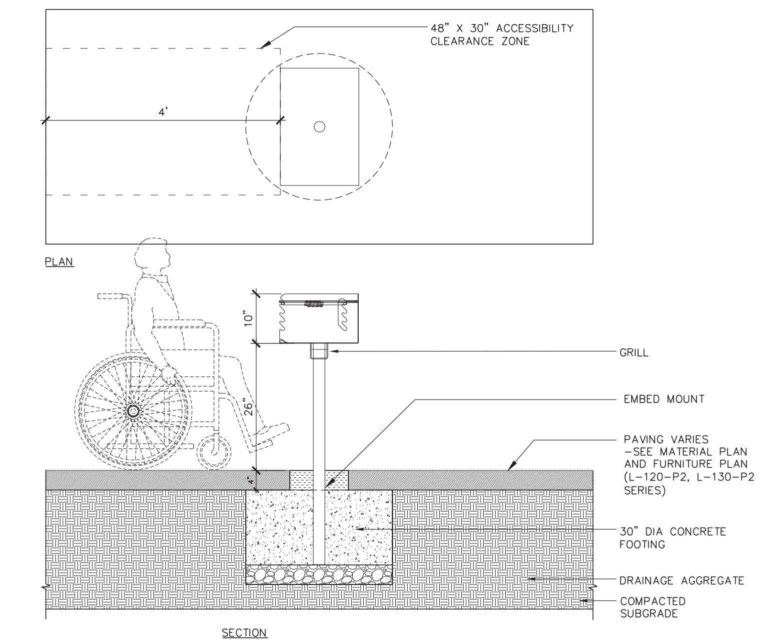

02 FURN 5 - PICNIC GRILL
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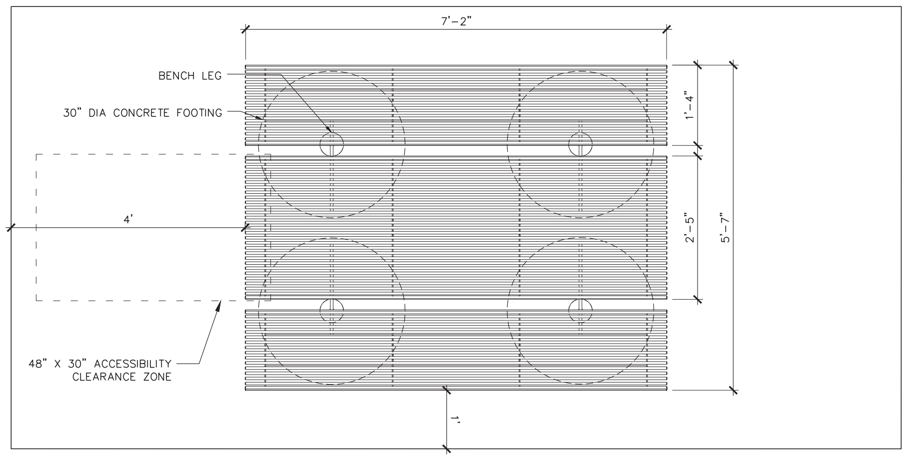

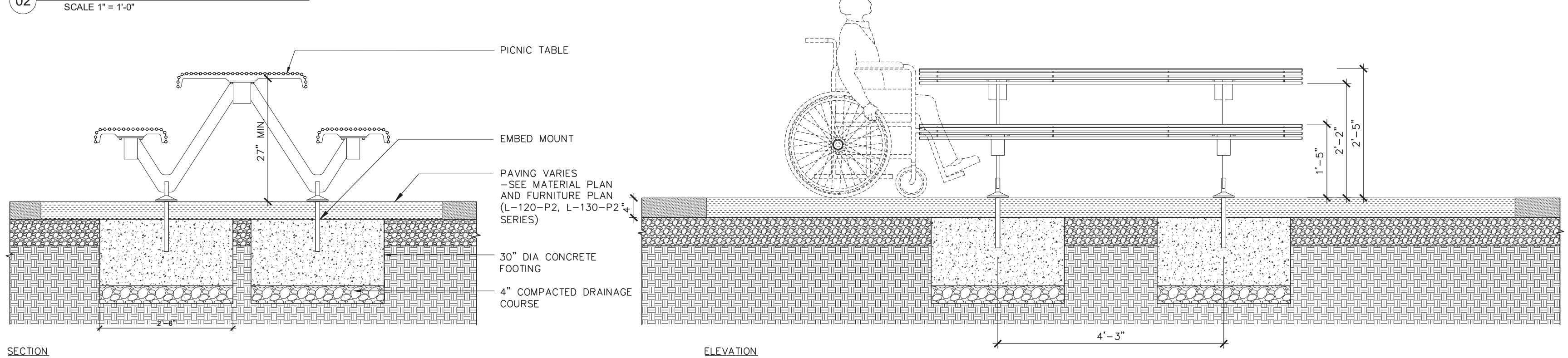

01 FURN 4 - PICNIC UNIT
SCALE 1" = 1'-0"

PLANS PREPARED BY:
TETRA TECH, INC.
707 WILSHIRE BLVD. 23RD FLR.
LOS ANGELES, CA 90017
PHONE: (213) 239-8866

HargreavesJones
Hargreaves Jones Landscape Architecture

CITY OF LOS ANGELES — DEPARTMENT OF PUBLIC WORKS — BUREAU OF ENGINEERING

VERT. CONTROL: BM 12-04070, 1929 (NGVD29) - 1985 ADJUSTMENT
HORIZ. CONTROL: GPS, PID AE 1704, EPOCH 1991.35

SHEET TITLE: DETAILS - FURNITURE
PROJECT: SIXTH STREET PARK, ARTS AND RIVER CONNECTIVITY IMPROVEMENTS (PARC)
ADDRESS: SIXTH STREET OVER THE LOS ANGELES RIVER

WORK ORDER NO. E700235D
FILE NO. --
DRAWING NO. L-542
SHEET 146 OF 295 SHEETS

GARY LEE MOORE, P.E., ENV SP — CITY ENGINEER — DATE:
DESIGN GROUP
LANDSCAPE ARCHITECT: MARY MARGARET JONES — LIC. NO. — 07/11/2022
DESIGNED BY: MARY MARGARET JONES
DRAWN BY: MEGAN ESOPENKO
CHECKED BY: GAVIN MCMILLAN
APPROVED BY: MARY MARGARET JONES

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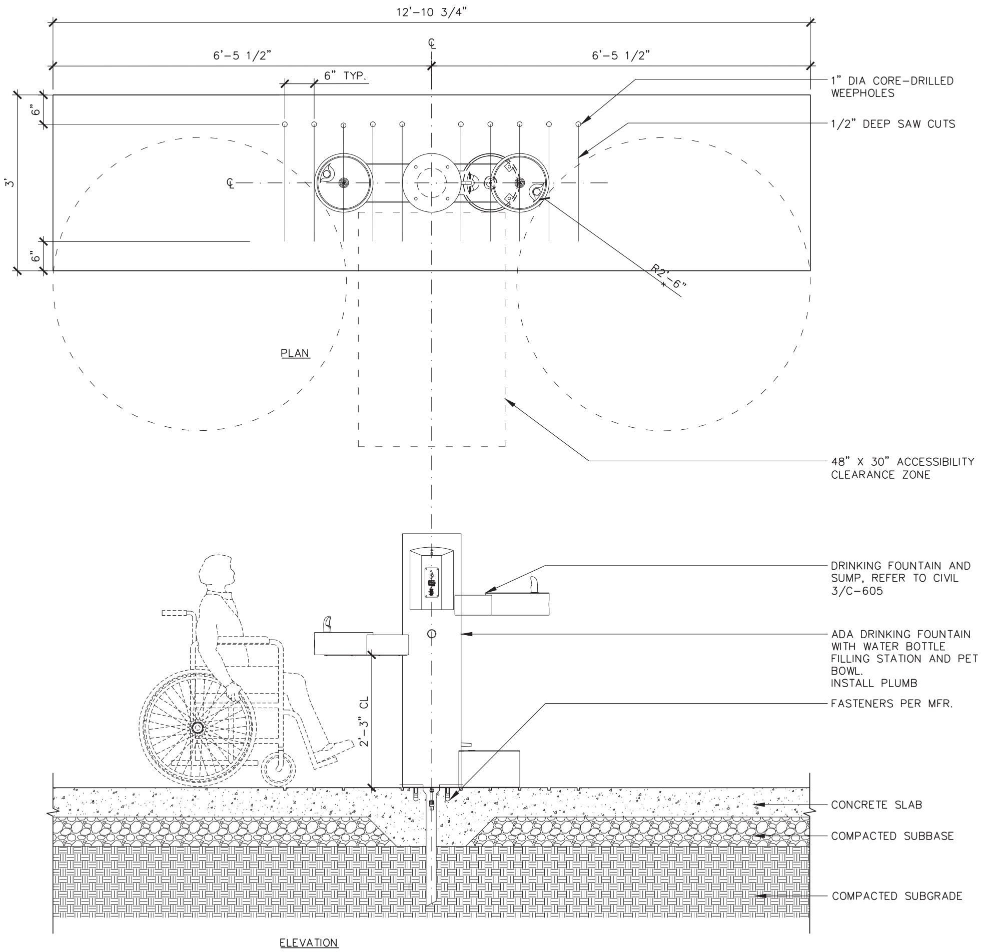

02 WATR 1 - WATER STATION AT D.G. PAVING
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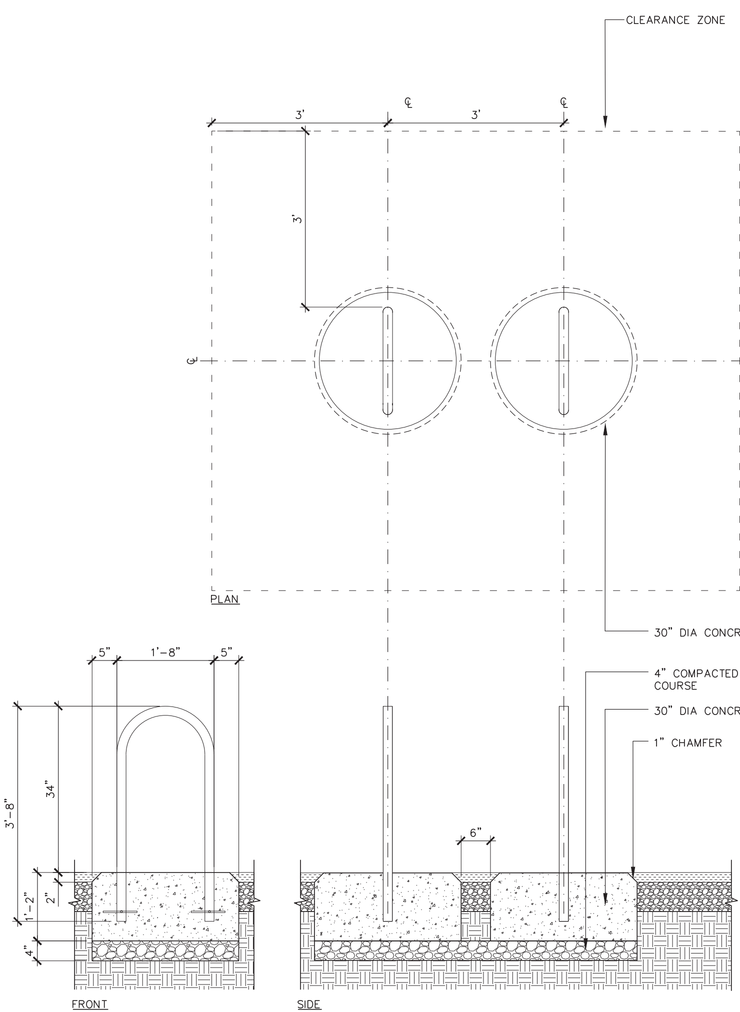

01 BRAK 1 - BIKE RACK PLAN & SECTION AT D.G. ADMIXTURE PAVING
SCALE 1" = 1'-0"

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707 WILSHIRE BLVD, 23RD FLR.
LOS ANGELES, CA 90017
PHONE: (213) 239-8866

HargreavesJones
Hargreaves Jones Landscape Architecture

CITY OF LOS ANGELES — DEPARTMENT OF PUBLIC WORKS — BUREAU OF ENGINEERING

VERT. CONTROL: BM 12-04070, 1929 (NGVD29) - 1985 ADJUSTMENT
HORIZ. CONTROL: GPS: PID AE 1704, EPOCH 1991.35

SHEET TITLE: DETAILS - FURNITURE

PROJECT: SIXTH STREET PARK, ARTS AND RIVER CONNECTIVITY IMPROVEMENTS (PARC)

ADDRESS: SIXTH STREET OVER THE LOS ANGELES RIVER

WORK ORDER NO. E700235D
FILE NO. --
DRAWING NO. L-543
SHEET 147 OF 295 SHEETS

GARY LEE MOORE, P.E., ENV SP — CITY ENGINEER
DESIGN GROUP — DATE:
LANDSCAPE ARCHITECT: MARY MARGARET JONES — LIC. NO. — 07/11/2022
DESIGNED BY: MARY MARGARET JONES
DRAWN BY: MEGAN ESOPENKO
CHECKED BY: GAVIN MCMILLAN
APPROVED BY: MARY MARGARET JONES

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CITY OF LOS ANGELES

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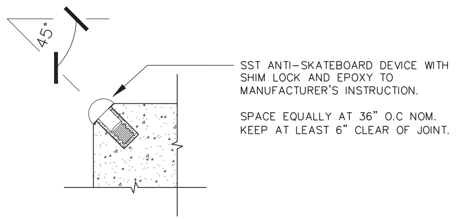
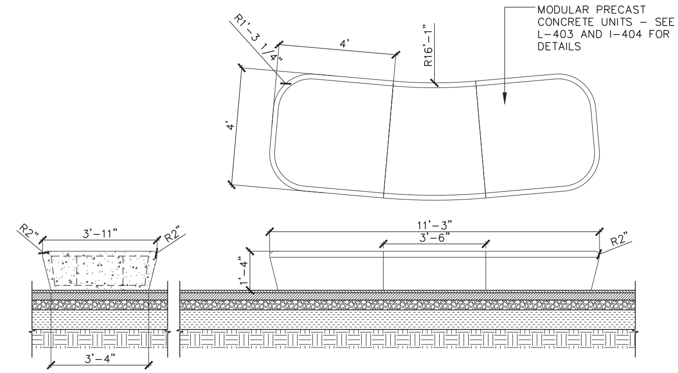
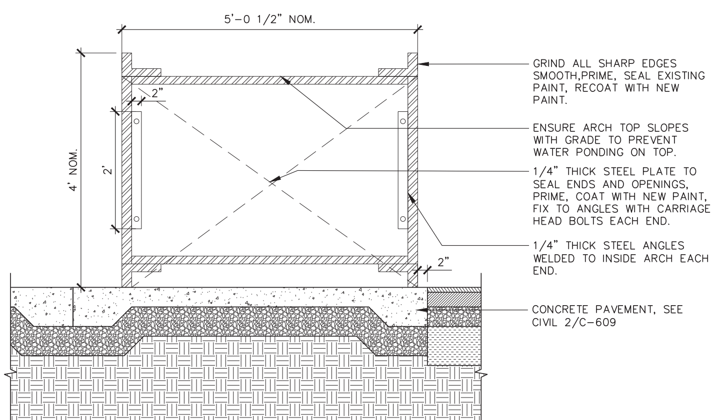


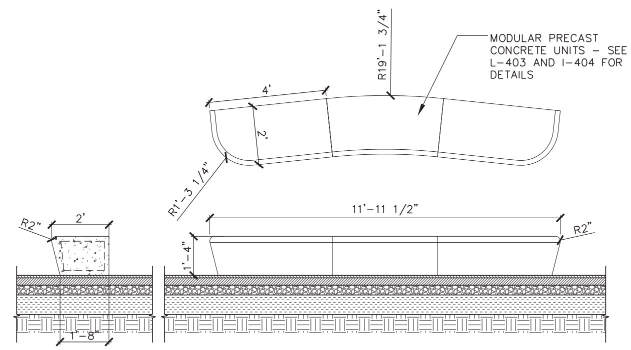
04 SKAT-1 SKATE DETERRENT
SCALE 6" = 1'-0"



02 FURN-7 PRECAST BENCH 48"
SCALE 1/2" = 1'-0"



03 SALVAGED ARCH DETAIL
SCALE 1" = 1'-0"



01 FURN-6 PRECAST BENCH 24"
SCALE 1/2" = 1'-0"

PLANS PREPARED BY:
TETRA TECH, INC.
707 WILSHIRE BLVD, 23RD FLR.
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HargreavesJones
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CITY OF LOS ANGELES — DEPARTMENT OF PUBLIC WORKS — BUREAU OF ENGINEERING

VERT. CONTROL: BM 12-04070, 1929 (NGVD29) - 1985 ADJUSTMENT
HORIZ. CONTROL: GPS, PID AE 1704, EPOCH 1991.35

SHEET TITLE: DETAILS - FURNITURE

PROJECT: SIXTH STREET PARK, ARTS AND RIVER CONNECTIVITY IMPROVEMENTS (PARC)

ADDRESS: SIXTH STREET OVER THE LOS ANGELES RIVER

GARY LEE MOORE, P.E., ENV SP — CITY ENGINEER
DESIGN GROUP — DATE:
LANDSCAPE ARCHITECT: MARY MARGARET JONES — LIC. NO. — 07/11/2022
DESIGNED BY: MARY MARGARET JONES
DRAWN BY: MEGAN ESOPENKO
CHECKED BY: GAVIN MCMILLAN
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ENGINEERING CITY OF LOS ANGELES

WORK ORDER NO. E700235D
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DRAWING NO. L-544
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REVISION DATES (DESIGN STAGE ONLY)

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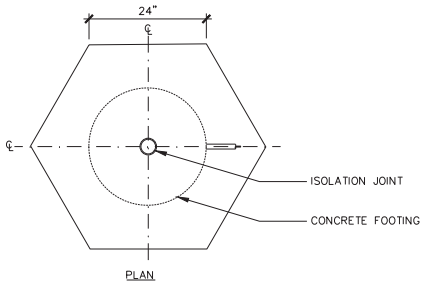
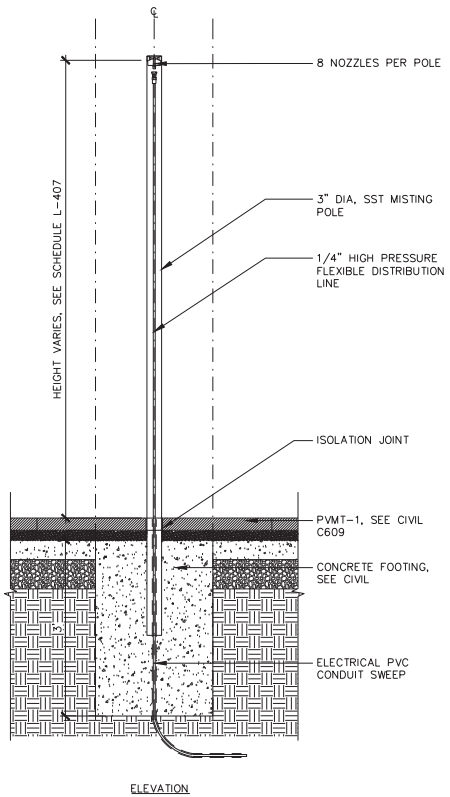


PLAN



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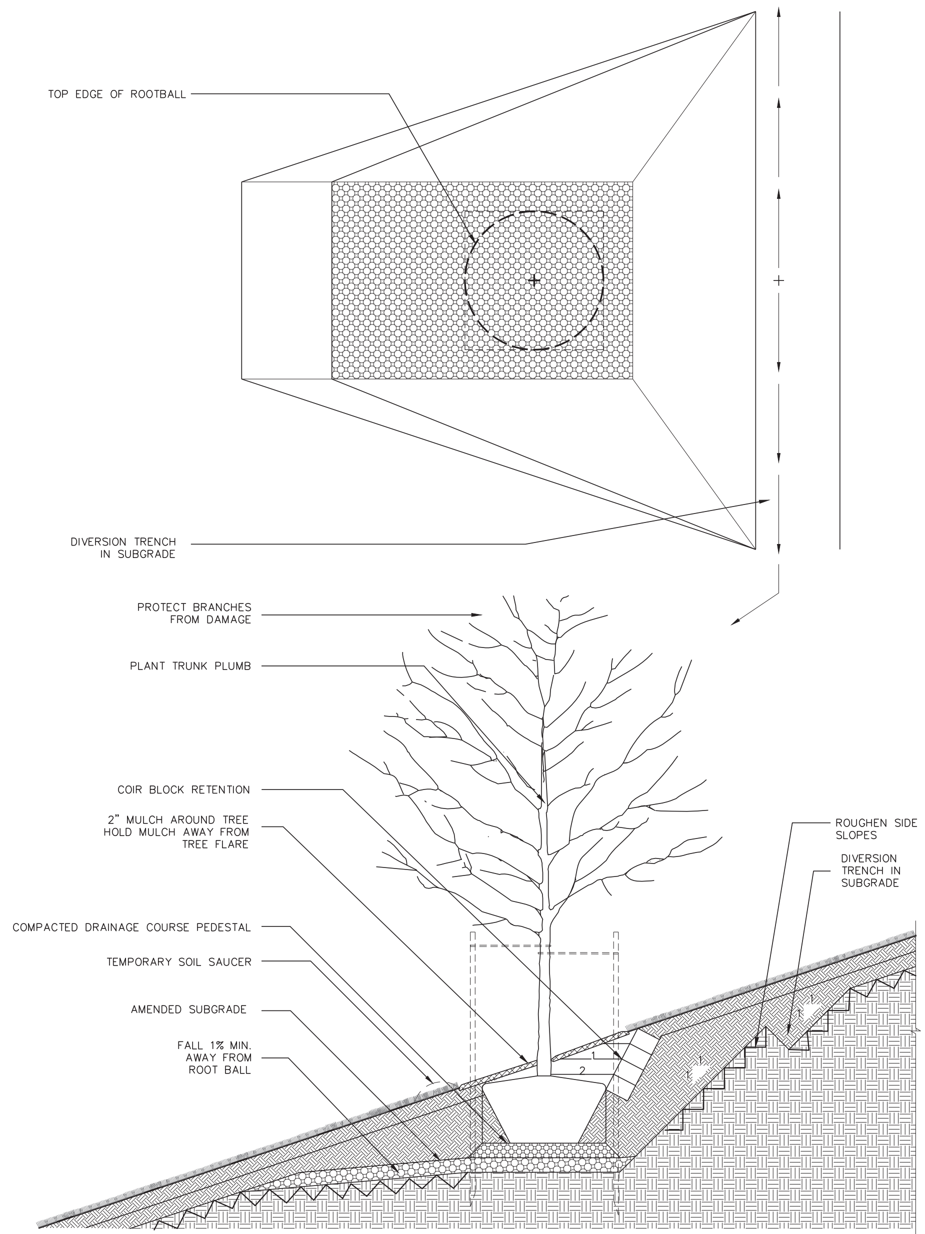
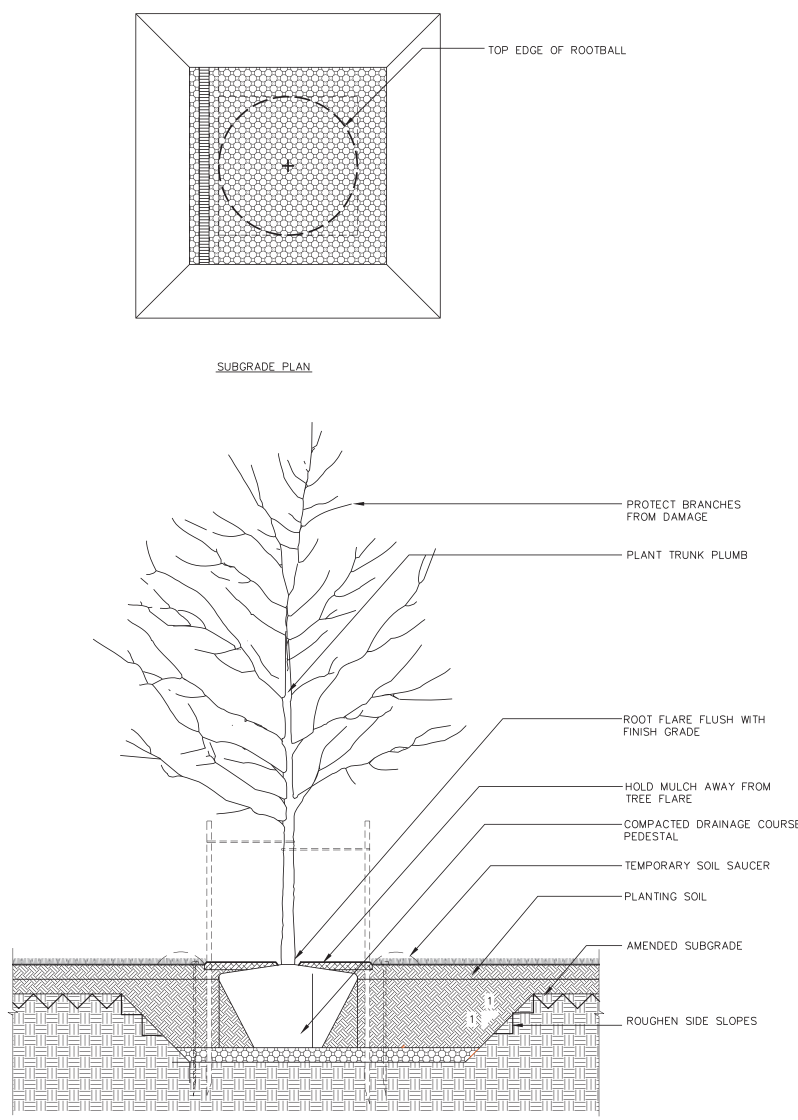


02 TYPICAL SINGLE TREE PLANTING - SLOPE
SCALE 3/8" = 1'-0"



01 TYPICAL SINGLE TREE PLANTING - FLAT
SCALE 3/8" = 1'-0"

PLANS PREPARED BY:
TETRA TECH, INC.
707 WILSHIRE BLVD, 23RD FLR.
LOS ANGELES, CA 90017
PHONE: (213) 239-8866

HargreavesJones
Hargreaves Jones Landscape Architecture

CITY OF LOS ANGELES — DEPARTMENT OF PUBLIC WORKS — BUREAU OF ENGINEERING

GARY LEE MOORE, P.E., ENV SP — CITY ENGINEER
DESIGN GROUP
LANDSCAPE ARCHITECT: MARY MARGARET JONES — LIC. NO. — DATE: 07/11/2022
DESIGNED BY: MARY MARGARET JONES
DRAWN BY: MEGAN ESOPENKO
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APPROVED BY: MARY MARGARET JONES

VERT. CONTROL: BM 12-04070, 1929 (NGVD29) - 1985 ADJUSTMENT
HORIZ. CONTROL: GPS, PID AE 1704, EPOCH 1991.35
SHEET TITLE: PLANTING - TREES
PROJECT: SIXTH STREET PARK, ARTS AND RIVER CONNECTIVITY IMPROVEMENTS (PARC)
ADDRESS: SIXTH STREET OVER THE LOS ANGELES RIVER

WORK ORDER NO. E700235D
FILE NO. --
DRAWING NO. L-550
SHEET 150 OF 295 SHEETS

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01	35% SCHEMATIC DESIGN	12/13/17	

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BUILDING NO.

ENGINEERING
CITY OF LOS ANGELES

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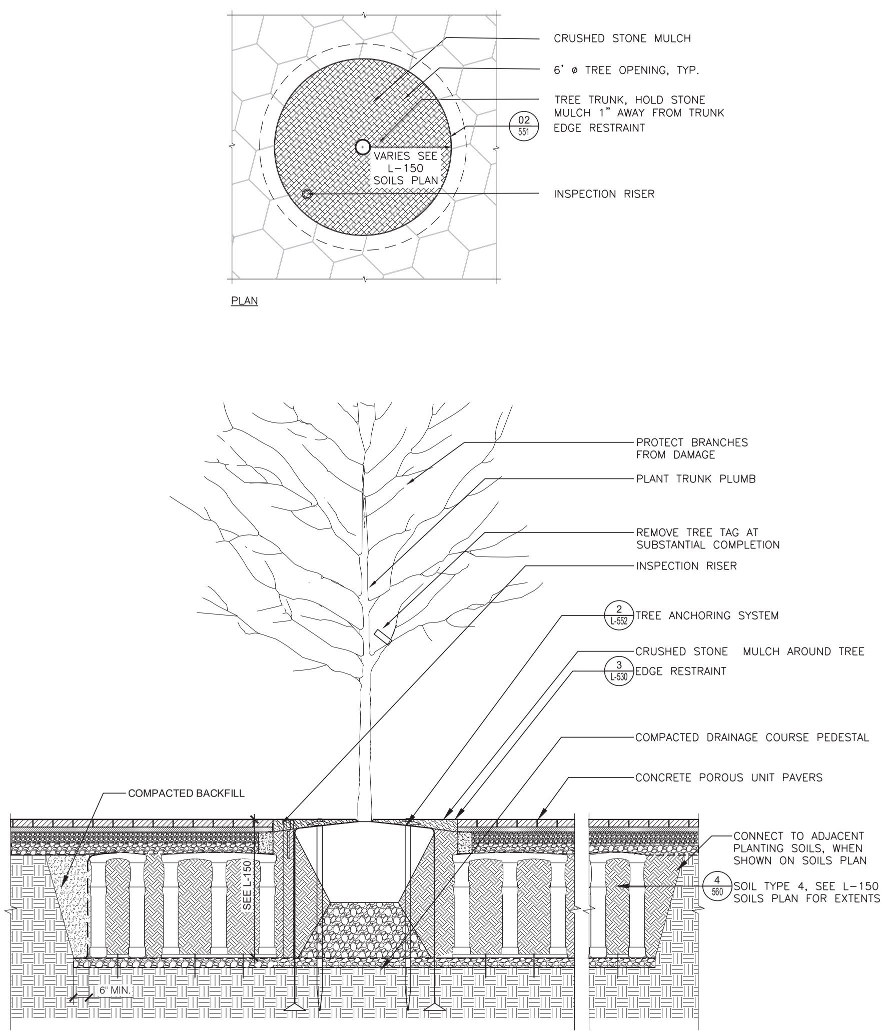
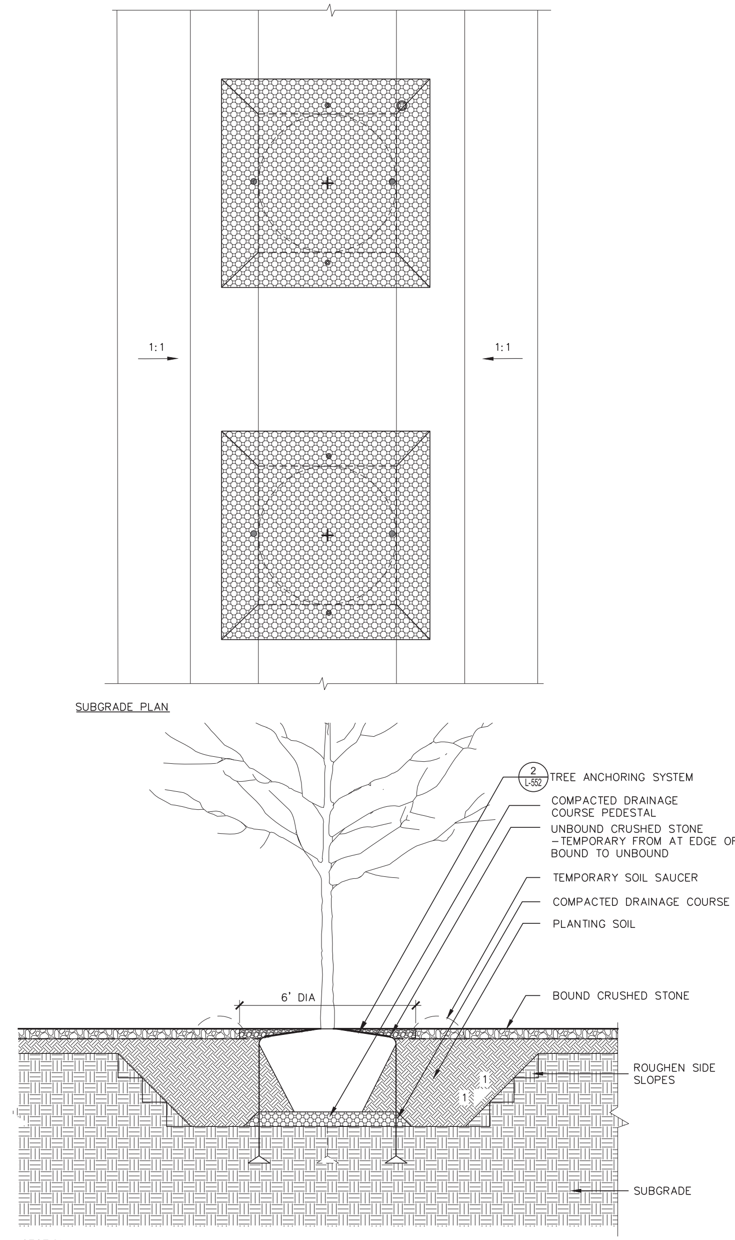


02 TREE PLANTING IN PAVEMENT
SCALE 1/2" = 1'-0"



01 TREE PLANTING IN CRUSHED STONE
SCALE 1/2" = 1'-0"

PLANS PREPARED BY:

TETRA TECH, INC.
707 WILSHIRE BLVD. 23RD FLR.
LOS ANGELES, CA 90017
PHONE: (213) 239-8866

HargreavesJones
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CITY OF LOS ANGELES — DEPARTMENT OF PUBLIC WORKS — BUREAU OF ENGINEERING

VERT. CONTROL:	BM 12-04070, 1929 (NGVD29) - 1985 ADJUSTMENT
HORIZ. CONTROL:	GPS, PID AE 1704, EPOCH 1991.35
SHEET TITLE:	PLANTING - TREES
PROJECT:	SIXTH STREET PARK, ARTS AND RIVER CONNECTIVITY IMPROVEMENTS (PARC)
ADDRESS:	SIXTH STREET OVER THE LOS ANGELES RIVER

GARY LEE MOORE, P.E., ENV SP — CITY ENGINEER
DESIGN GROUP — DATE:
LANDSCAPE ARCHITECT: MARY MARGARET JONES — LIC. NO. — 07/11/2022
DESIGNED BY: MARY MARGARET JONES
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CHECKED BY: GAVIN MCMILLAN
APPROVED BY: MARY MARGARET JONES

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ENGINEERING
CITY OF LOS ANGELES

WORK ORDER NO. E7002350
FILE NO. --
DRAWING NO. L-551
SHEET 151 OF 295 SHEETS

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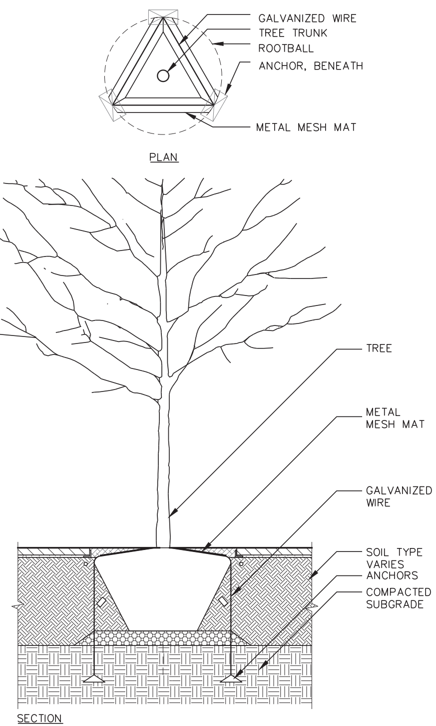
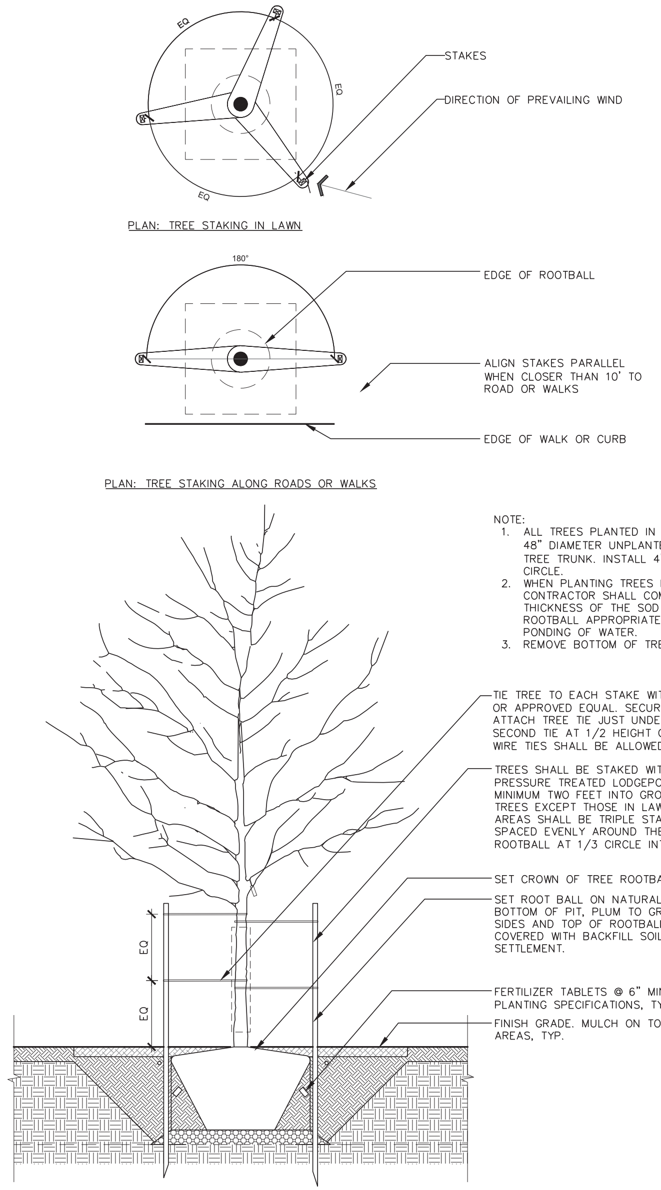


02 ROOT BALL ANCHOR SYSTEM FOR TREES IN PAVEMENT/CRUSHED STONE/LAWN
SCALE 1/2" = 1'-0"



NOTE:
1. ALL TREES PLANTED IN LAWN AREAS SHALL HAVE A 48" DIAMETER UNPLANTED AREA AROUND EACH TREE TRUNK. INSTALL 4" TOP-DRESS MULCH INSIDE CIRCLE.
2. WHEN PLANTING TREES IN AREAS TO RECEIVE SOD, CONTRACTOR SHALL COMPENSATE FOR THE THICKNESS OF THE SOD AND SET TOP OF TREE ROOTBALL APPROPRIATE TO AVOID A LOW AREA AND PONDING OF WATER.
3. REMOVE BOTTOM OF TREE BOXES BEFORE PLANTING.

- TIE TREE TO EACH STAKE WITH A CT-24" CINCH TIE". OR APPROVED EQUAL. SECURE TO STAKE WITH 6D NAIL. ATTACH TREE TIE JUST UNDER HEAD OF TREE. PROVIDE SECOND TIE AT 1/2 HEIGHT OF FIRST TIE. NO HOSE AND WIRE TIES SHALL BE ALLOWED.
- TREES SHALL BE STAKED WITH 10' LONG X 2" DIAMETER PRESSURE TREATED LODGEPOLE PINE. DRIVE STAKES MINIMUM TWO FEET INTO GROUND. DOUBLE STAKE ALL TREES EXCEPT THOSE IN LAWN AREAS. TREES IN LAWN AREAS SHALL BE TRIPLE STAKED - WITH STAKES SPACED EVENLY AROUND THE OUTSIDE OF THE ROOTBALL AT 1/3 CIRCLE INTERVALS.
- SET CROWN OF TREE ROOTBALL 3" ABOVE FINISH GRADE
- SET ROOT BALL ON NATURAL UNDISTURBED SOIL AT BOTTOM OF PIT, PLUM TO GRADE. BACKFILL WITH SOIL. SIDES AND TOP OF ROOTBALL MUST BE ENTIRELY COVERED WITH BACKFILL SOIL, AND PLACED TO AVOID SETTLEMENT.
- FERTILIZER TABLETS @ 6" MIN. DEPTH - QUANTITY PER PLANTING SPECIFICATIONS, TYP.
- FINISH GRADE. MULCH ON TOP OF GRADE IN NON-TURF AREAS, TYP.

01 TYPICAL TREE STAKING FOR TREES IN PLANTING
SCALE 1/2" = 1'-0"

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707 WILSHIRE BLVD. 23RD FLR.
LOS ANGELES, CA 90017
PHONE: (213) 239-8866

HargreavesJones
Hargreaves Jones Landscape Architecture

CITY OF LOS ANGELES · DEPARTMENT OF PUBLIC WORKS · BUREAU OF ENGINEERING

VERT. CONTROL: BM 12-04070, 1929 (NGVD29) - 1985 ADJUSTMENT
HORIZ. CONTROL: GPS, PID AE 1704, EPOCH 1991.35

SHEET TITLE: PLANTING - TREES
PROJECT: SIXTH STREET PARK, ARTS AND RIVER CONNECTIVITY IMPROVEMENTS (PARC)
ADDRESS: SIXTH STREET OVER THE LOS ANGELES RIVER

GARY LEE MOORE, P.E., ENV SP — CITY ENGINEER
DESIGN GROUP — DATE:
LANDSCAPE ARCHITECT: MARY MARGARET JONES — LIC. NO. — 07/11/2022
DESIGNED BY: MARY MARGARET JONES
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WORK ORDER NO. E700235D
FILE NO. --
DRAWING NO. L-552
SHEET 152 OF 295 SHEETS

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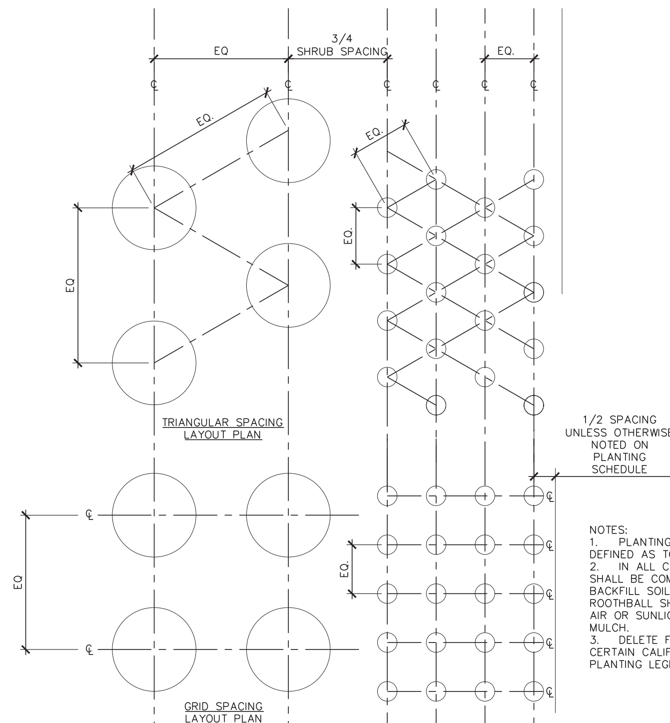
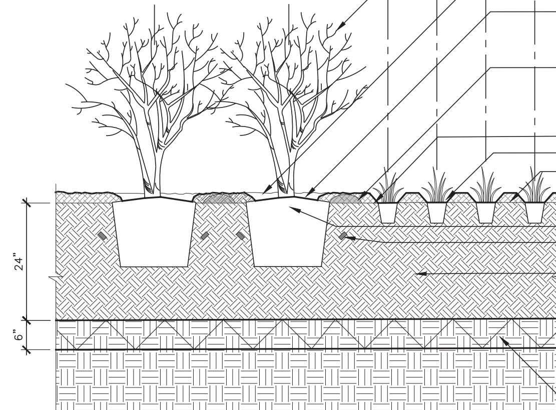
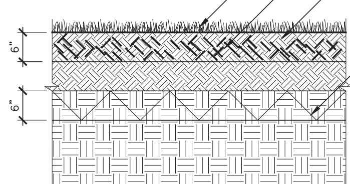


NOTES:
1. PLANTING FINISH GRADE SHALL BE DEFINED AS TOP OF SOIL.
2. IN ALL CASES THE PLANT ROOTBALL SHALL BE COMPLETELY COVERED WITH BACKFILL SOIL – NO PORTION OF THE ROOTBALL SHALL BE LEFT EXPOSED TO AIR OR SUNLIGHT BEFORE APPLICATION OF MULCH.
3. DELETE FERTILIZER TABLETS FOR CERTAIN CALIF. NATIVE PLANTS – SEE PLANTING LEGEND.



01 SHRUB & GROUNDCOVER PLANTING
SCALE 1" = 1'-0"



02 LAWN - FIBER REINFORCED
SCALE 1" = 1'-0"

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LOS ANGELES, CA 90017
PHONE: (213) 239-8866

HargreavesJones
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SHEET TITLE: PLANTING - UNDERSTORY
PROJECT: SIXTH STREET PARK, ARTS AND RIVER CONNECTIVITY IMPROVEMENTS (PARC)
ADDRESS: SIXTH STREET OVER THE LOS ANGELES RIVER

GARY LEE MOORE, P.E., ENV SP — CITY ENGINEER
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CITY OF LOS ANGELES

WORK ORDER NO. E700235D
FILE NO. --
DRAWING NO. L-555
SHEET 153 OF 295 SHEETS

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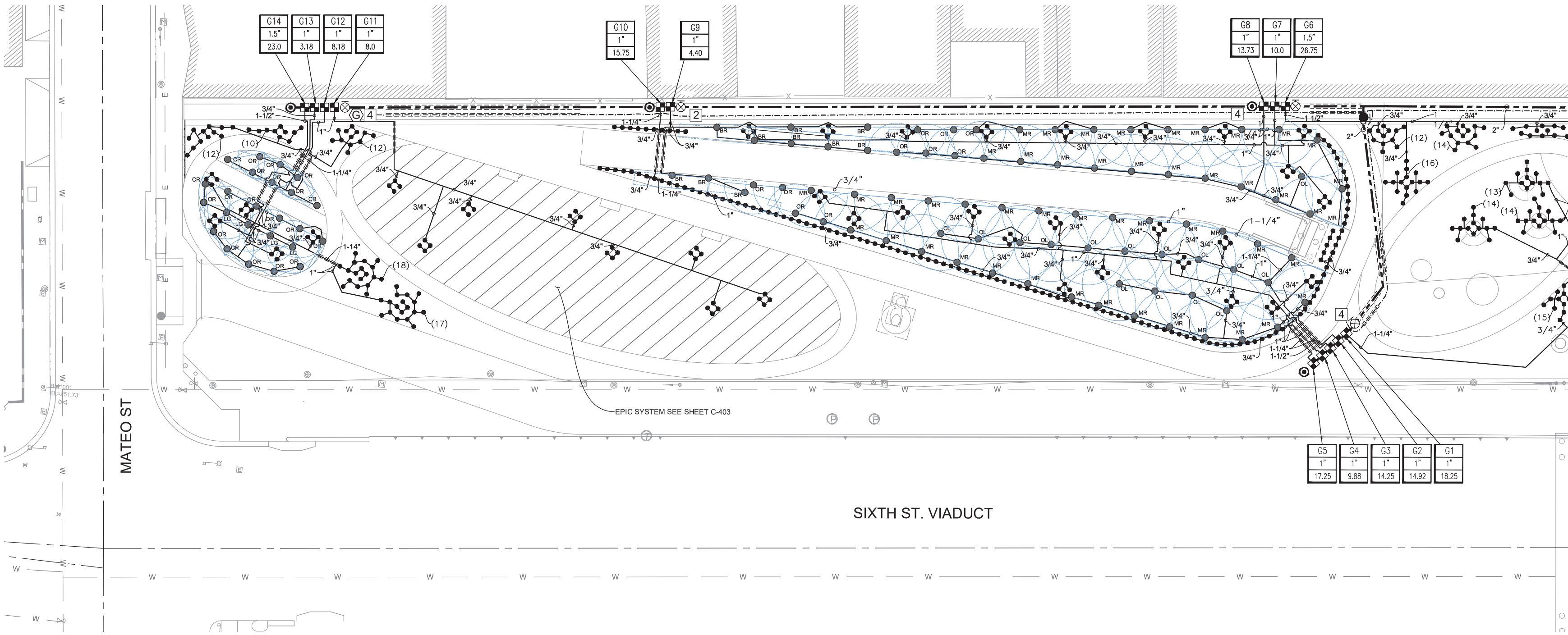

IRRIGATION EQUIPMENT LEGEND

SYMBOL	DESCRIPTION
M	CONTRACTOR SHALL ARRANGE FOR INSTALLATION OF NEW 1.5" IRRIGATION METER SERVICE WITH LADWP FOR EACH IRRIGATION P.O.C. INDICATED HEREIN. SEE IRRIGATION NOTES FOR ADDITIONAL INFORMATION.
RP	1.5" OR 2.0" FEBCO LF825Y SERIES REDUCED PRESSURE BACKFLOW DEVICE WITH ENCLOSURE PER DETAIL I4/I-011 AND I5/I-011. CONTRACTOR SHALL DETERMINE EXACT LOCATION WITH THE CITY'S AUTHORIZED REPRESENTATIVE BEFORE INSTALLATION.
A C D E F G	CONTROLLER A, C-G: RAIN BIRD ESP-LXD 50-200 STATION CAPABLE TWO-WIRE DECODER CONTROLLER. MOUNT CONTROLLER INSIDE STAINLESS STEEL PEDESTAL ENCLOSURE PER DETAIL I1/I-011. CONTROLLER GROUNDING PER DETAIL I1/2-011, I1/3-011. CONTRACTOR SHALL DETERMINE EXACT LOCATION WITH THE PROJECT MANAGER BEFORE INSTALLATION. WEATHER SENSOR FOR CONTROLLER "G" ONLY PER DETAIL I7/I-011.
EL	120 VOLT ELECTRICAL POWER, PROVIDED BY ELECTRICIAN. CONTRACTOR SHALL COORDINATE AND VERIFY CONTROLLER PEDESTAL LOCATION IN FIELD WITH ELECTRICIAN. ELECTRICIAN SHALL ROUTE AND INSTALL ALL CONDUIT AND CONDUCTORS TO WITHIN THE CONTROLLER PEDESTAL LOCATION. IRRIGATION CONTRACTOR SHALL CONNECT IRRIGATION CONTROLLER TO ELECTRICAL STUB-OUT. CONTROLLER CIRCUIT SHALL BE SUPPLIED FROM A DEDICATED BREAKER FROM THE POWER SOURCE.
MV	BUCKNER SUPERIOR MODEL: 3100200 2" OR 3100250 2-1/2" NORMALLY OPEN SOLID BRASS MASTER VALVE. PROVIDE AND INSTALL PER MANUFACTURER'S INSTRUCTIONS. MASTER VALVE CONNECTS TO CONTROLLER USING RAIN BIRD SD-210 DECODER.
F	RAIN BIRD FS150B 1.5" OR FS200B 2" BRASS TEE FLOW SENSOR WITH RAIN BIRD SD-210 SENSOR DECODER. INSTALL PER DETAIL I7/I-010.

IRRIGATION EQUIPMENT LEGEND

SYMBOL	DESCRIPTION
■	REMOTE CONTROL VALVE: RAIN BIRD EFB-CP 100 OR 150 OR 200 SERIES BRASS VALVE - SEE PLAN CALLOUT FOR VALVE SIZE INSTALLER SHALL PROVIDE AND INSTALL RAIN BIRD 2-WIRE DECODERS AS INDICATED AT EACH MANIFOLD, AND PROGRAM PER MANUFACTURER'S INSTRUCTIONS. INSTALL PER DETAIL I5/I-009.
◉	QUICK COUPLING VALVE: 1" TWO PIECE QUICK COUPLING VALVE: RAINBIRD 44LRC, WITH 44K KEY AND SH-1 HOSE SWIVEL. PROVIDE ONE QUICK COUPLER KEY AND HOSE SWIVEL FOR EACH FIVE QUICK COUPLERS INSTALLED (MINIMUM ONE QUICK COUPLER KEY). INSTALL PER DETAIL I6/I-009.
— · · —	MAINLINE PIPING: 2-1/2" AND SMALLER SHALL BE SCH. 40 PVC; PURPLE NON-POTABLE PIPE WITH GLUED FITTINGS TYP. SEE DETAIL FOR MAINLINE SIZING IN VALVE MANIFOLDS.
———	PC SCH. 40 LATERAL LINE PIPING; PURPLE NON-POTABLE PIPE, SOLVENT WELD. SIZE AS NOTED.
- - - -	PVC SLEEVE UNDER PAVING. SCHEDULE 40 PVC SLEEVE SHALL BE TWO PIPE SIZES GREATER THAN THE PIPING WHICH IS TO RUN IN THE SLEEVE, OR 4" DIA. FOR CONTROL WIRE WITHOUT MAINLINE. COVER DEPTH SHALL BE THE SAME AS THE MAINLINE OR LATER LINE. INSTALL PER DETAIL I8/I-009.
●	2" TO 2-1/2" BRONZE GATE VALVE: NIBCO T-113 SOLID BRONZE, NON-RISING STEM, SOLID WEDGE TYPE OR APPROVED EQUAL. INSTALL PER DETAIL I2/I-009.
⊗	MANIFOLD GATE VALVE. 2" TO 2-1/2" BRONZE GATE VALVE: NIBCO T-113 SOLID BRONZE, NON-RISING STEM, SOLID WEDGE TYPE OR APPROVED EQUAL. INSTALL PER DETAIL I2/I-009.

2-WIRE SYSTEM EQUIPMENT LEGEND

1 RAIN BIRD FD-102TURF ONE VALVE DECODER. INSTALL PER MANUFACTURER'S INSTRUCTIONS.

2 RAIN BIRD FD-202TURF TWO VALVE DECODER. INSTALL PER MANUFACTURER'S INSTRUCTIONS.

4 RAIN BIRD FD-401TURF FOUR VALVE DECODER. INSTALL PER MANUFACTURER'S INSTRUCTIONS.

6 RAIN BIRD FD-601TURF SIX VALVE DECODER. INSTALL PER MANUFACTURER'S INSTRUCTIONS.

G LIGHTNING ARRESTOR AND GROUND ROD. INSTALL IN LOCATIONS SHOWN PER MANUFACTURER'S INSTRUCTIONS AND PER DETAIL I3/I-010, I4/I-010, I6/I-010.

APPROVED TWO-WIRE CABLE PER SPECIFICATIONS. ALL 2-WIRE CABLE SHALL BE INSTALLED IN 1" MIN. SCH. 80 PVC CONDUIT 24" MIN. BELOW GRADE WITH PULL BOXES @ 200' MAX.

IRRIGATION HEADS LEGEND

SYMBOL	DESCRIPTION	GPM	SPACING	NOZZLE PRESSURE	PRECIP. RATE	DETAIL NUMBER
5Q 5H 5F	**RAINBIRD 5004 PLUS SERIES 40-360 DEG.** ROTOR STAINLESS STEEL RISER WITH PRS PRESSURE REGULATION AND SAM CHECK VALVE; MPR-30 GREEN NOZZLE	1.4 2.96 5.78	29'	40 PSI	--	I9/I-009
●	**RAINBIRD 1812-SAM-P45 SERIES** POP-UP SPRAY BODY WITH MP ROTATOR NOZZLE PER LEGEND AT RIGHT WITH RADIUS AND ARC AS REQUIRED.	0.21-3.64	11'-30'	40 PSI	--	I10/I-009
•	**RAIN BIRD RWS-M-B-C-1401 18"** (TREES), **RWS-S-B-C-1401 10"** (SHRUBS) ROOT WATERING SYSTEM ASSEMBLY WITH PRESSURE COMPENSATING BUBBLER. (#) ON PLAN = NUMBER OF UNITS PER TREE.	.25 GPH	--	--	--	I11/I-009
5Q 5H 5F 5CST	**RAIN BIRD 5 SERIES MPR STREAM BUBBLER ON RAIN BIRD 1806 SAM-PRS POP UP BODY,** 6" POP UP HEIGHT. 5Q-B QUARTER CIRCLE, 5H-B HALF CIRCLE, 5F-B FULL CIRCLE, 5CST-B DUAL STREAM; (5' RADIUS TYP.).	0.50 1.00 1.50 0.50	7'	30 PSI	--	I10/I-009
⊗	**RAIN BIRD U- SERIES NOZZLE ON RAIN BIRD SAM-PRS 1804 BODY**, 4" POP UP HEIGHT. U-15Q QUARTER CIRCLE, U-15H HALF CIRCLE, U-15F FULL CIRCLE, (15' RADIUS TYP.).	0.92 1.85 3.70	15'	30 PSI	--	I10/I-009

AREA IRRIGATED BY EPIC SYSTEM

MP ROTATOR NOZZLE LEGEND
BY HUNTER INDUSTRIES

		RADIUS
BL	MP 3000 90-210 DEG (BLUE)	22'-30'
YE	MP 3000 210-270 DEG (YELLOW)	22'-30'
GY	MP 3000 360 DEG (GRAY)	22'-30'
BK	MP 2000 90-210 DEG (BLACK)	13'-21'
GN	MP 2000 210-270 DEG (GREEN)	13'-21'
RD	MP 2000 360 DEG (RED)	13'-21'
MR	MP 1000 90-210 DEG (MAROON)	8'-15'
LB	MP 1000 210-270 DEG (LIGHT BLUE)	8'-15'
OL	MP 1000 360 DEG (OLIVE)	8'-15'
OR	MP 800 SR 90-210 DEG (ORANGE)	6'-12'
LG	MP 800 SR 360 DEG (LIME GREEN)	6'-12'
CR	MPCORNER (TURQUOISE)	8'-15'
BR	MP SIDE STRIP (BROWN)	5'X30'

IRRIGATION VALVE LEGEND

A–H — CONTROLLER & STATION NO.
2" — VALVE SIZE
XX.X — STATION GPM

NOTES:
1. LOCATION OF BACKFLOW DEVICE AND ENCLOSURE MUST BE APPROVED BY LADWP.
2. ALL VALVES TO BE INSTALLED IN CONCRETE VALVE BOXES ("BROOKS 3-HL") WITH LOCKING STEEL COVERS.
3. ALL END RUNS OF LATERAL PIPE SHALL BE A MINIMUM OF 3/4" SIZE PIPE UNLESS NOTED OTHERWISE.
4. ALL IRRIGATION PIPING TO BE PURPLE NON-POTABLE TO ALLOW FOR FUTURE CONNECTION TO RECYCLED WATER SUPPLY.
5. LOCATE WEATHER SENSOR NEAR CONTROLLER 'G' IN A LOCATION THAT WILL BE UNOBSTRUCTED BY FUTURE TREE CANOPY GROWTH.

SCALE: 1"=20'

PLANS PREPARED BY:
TETRA TECH, INC.
707 WILSHIRE BLVD, 23RD FLR.
LOS ANGELES, CA 90017
PHONE: (213) 239-8866

CITY OF LOS ANGELES — DEPARTMENT OF PUBLIC WORKS — BUREAU OF ENGINEERING

GARY LEE MOORE, P.E., ENV SP — CITY ENGINEER
DESIGN GROUP
ENGINEER: JUSTIN SMITH — LIC. NO. C-85736 — DATE: 07/11/22
DESIGNED BY: HEATH PRAY
DRAWN BY: HEATH PRAY
CHECKED BY: NATE SCHREINER
APPROVED BY: JASON L. FUSSEL

VERT. CONTROL: BM 12-04070, 1929 (NGVD29) - 1985 ADJUSTMENT
HORIZ. CONTROL: GPS; PID AE 1704, EPOCH 1991.35

SHEET TITLE: IRRIGATION PLAN SHEET 1
PROJECT: SIXTH STREET PARK, ARTS AND RIVER CONNECTIVITY IMPROVEMENTS (PARC)
ADDRESS: SIXTH STREET OVER THE LOS ANGELES RIVER

WORK ORDER NO. E700235D
FILE NO. --
DRAWING NO. I-001
SHEET 154 OF 295 SHEETS

REGISTERED PROFESSIONAL ENGINEER — JUSTIN T. SMITH — No. 85736 — EXP. 9-30-22 — CIVIL — STATE OF CALIFORNIA
THIS PLAN WAS ELECTRONICALLY SIGNED AND STAMPED.

NO. | REVISIONS | DATE | BY
INDEX NO.
BUILDING NO.

ENGINEERING — CITY OF LOS ANGELES

REVISION DATES (DESIGN STAGE ONLY)

Sheet Version 3.0

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BID SET - NOT FOR CONSTRUCTION

IRRIGATION EQUIPMENT LEGEND

SYMBOL	DESCRIPTION
(M)	CONTRACTOR SHALL ARRANGE FOR INSTALLATION OF NEW 1.5" IRRIGATION METER SERVICE WITH LADWP FOR EACH IRRIGATION P.O.C. INDICATED HEREIN. SEE IRRIGATION NOTES FOR ADDITIONAL INFORMATION.
(RP)	1.5" FEBCO LF825Y SERIES REDUCED PRESSURE BACKFLOW DEVICE WITH ENCLOSURE PER DETAIL I4/I-011 AND I5/I-011. CONTRACTOR SHALL DETERMINE EXACT LOCATION WITH THE CITY'S AUTHORIZED REPRESENTATIVE BEFORE INSTALLATION.
A C D E F G	CONTROLLER A, C-G: RAIN BIRD ESP-LXD 50-200 STATION CAPABLE TWO-WIRE DECODER CONTROLLER. MOUNT CONTROLLER INSIDE STAINLESS STEEL PEDESTAL ENCLOSURE PER DETAIL I1/I-011. CONTRACTOR SHALL DETERMINE EXACT LOCATION WITH THE PROJECT MANAGER BEFORE INSTALLATION.
EL	120 VOLT ELECTRICAL POWER, PROVIDED BY ELECTRICIAN. CONTRACTOR SHALL COORDINATE AND VERIFY CONTROLLER PEDESTAL LOCATION IN FIELD WITH ELECTRICIAN. ELECTRICIAN SHALL ROUTE AND INSTALL ALL CONDUIT AND CONDUCTORS TO WITHIN THE CONTROLLER PEDESTAL LOCATION. IRRIGATION CONTRACTOR SHALL CONNECT IRRIGATION CONTROLLER TO ELECTRICAL STUB-OUT. CONTROLLER CIRCUIT SHALL BE SUPPLIED FROM A DEDICATED BREAKER FROM THE POWER SOURCE.
(MV)	BUCKNER SUPERIOR MODEL: 3100200 2" OR 3100250 2-1/2" NORMALLY OPEN SOLID BRASS MASTER VALVE. PROVIDE AND INSTALL PER MANUFACTURER'S INSTRUCTIONS. MASTER VALVE CONNECTS TO CONTROLLER USING RAIN BIRD SD-210 DECODER.

IRRIGATION EQUIPMENT LEGEND

SYMBOL	DESCRIPTION
F	RAIN BIRD FS150B 1.5" OR FS200B 2" BRASS TEE FLOW SENSOR WITH RAIN BIRD SD-210 SENSOR DECODER. INSTALL PER DETAIL I7/I-010.
■	REMOTE CONTROL VALVE: RAIN BIRD EFB-CP 100 OR 150 OR 200 SERIES BRASS VALVE - SEE PLAN CALLOUT FOR VALVE SIZE INSTALLER SHALL PROVIDE AND INSTALL RAIN BIRD 2-WIRE DECODERS AS INDICATED AT EACH MANIFOLD, AND PROGRAM PER MANUFACTURER'S INSTRUCTIONS. INSTALL PER DETAIL I5/I-009.
⊙	QUICK COUPLING VALVE: 1" TWO PIECE QUICK COUPLING VALVE: RAINBIRD 44LRC, WITH 44K KEY AND SH-1 HOSE SWIVEL. PROVIDE ONE QUICK COUPLER KEY AND HOSE SWIVEL FOR EACH FIVE QUICK COUPLERS INSTALLED (MINIMUM ONE QUICK COUPLER KEY). INSTALL PER DETAIL I6/I-009.
— - —	MAINLINE PIPING: 2-1/2" AND SMALLER SHALL BE SCH. 40 PVC; PURPLE NON-POTABLE PIPE WITH GLUED FITTINGS TYP. SEE DETAIL FOR MAINLINE SIZING IN VALVE MANIFOLDS.
——	PC SCH. 40 LATERAL LINE PIPING; PURPLE NON-POTABLE PIPE, SOLVENT WELD. SIZE AS NOTED.
- - - -	PVC SLEEVE UNDER PAVING. SCHEDULE 40 PVC SLEEVE SHALL BE TWO PIPE SIZES GREATER THAN THE PIPING WHICH IS TO RUN IN THE SLEEVE, OR 4" DIA. FOR CONTROL WIRE WITHOUT MAINLINE. COVER DEPTH SHALL BE THE SAME AS THE MAINLINE OR LATER LINE. INSTALL PER DETAIL I8/I-009.
●	2" TO 2-1/2" BRONZE GATE VALVE: NIBCO T-113 SOLID BRONZE, NON-RISING STEM, SOLID WEDGE TYPE OR APPROVED EQUAL. INSTALL PER DETAIL I2/I-009.
⊗	MANIFOLD GATE VALVE. 2" TO 2-1/2" BRONZE GATE VALVE: NIBCO T-113 SOLID BRONZE, NON-RISING STEM, SOLID WEDGE TYPE OR APPROVED EQUAL. INSTALL PER DETAIL I2/I-009.

IRRIGATION HEADS LEGEND

SYMBOL	DESCRIPTION	GPM	SPACING	NOZZLE PRESSURE	PRECIP. RATE	DETAIL NUMBER
5Q 5H 5F	**RAINBIRD 5004 PLUS SERIES 40-360 DEG.** ROTOR STAINLESS STEEL RISER WITH PRS PRESSURE REGULATION AND SAM CHECK VALVE; MPR-30 GREEN NOZZLE	1.4 2.96 5.78	29'	40 PSI	--	I9/I-009
●	**RAINBIRD 1812-SAM-P45 SERIES** POP-UP SPRAY BODY WITH MP ROTATOR NOZZLE PER LEGEND AT RIGHT WITH RADIUS AND ARC AS REQUIRED.	0.21-3.64	11'-30'	40 PSI	--	I10/I-009
•	**RAIN BIRD RWS-M-B-C-1401 18"** (TREES), **RWS-S-B-C-1401 10"** (SHRUBS) ROOT WATERING SYSTEM ASSEMBLY WITH PRESSURE COMPENSATING BUBBLER. (#) ON PLAN = NUMBER OF UNITS PER TREE.	.25 GPH	--	--	--	I11/I-009
5Q 5H 5F 5CST	**RAIN BIRD 5 SERIES MPR STREAM BUBBLER ON RAIN BIRD 1806 SAM-PRS POP UP BODY,** 6" POP UP HEIGHT. 5Q-B QUARTER CIRCLE, 5H-B HALF CIRCLE, 5F-B FULL CIRCLE, 5CST-B DUAL STREAM; (5' RADIUS TYP.).	0.50 1.00 1.50 0.50	7'	30 PSI	--	I10/I-009
⊗ ⊗ ⊗	**RAIN BIRD U- SERIES NOZZLE ON RAIN BIRD SAM-PRS 1804 BODY,** 4" POP UP HEIGHT. U-15Q QUARTER CIRCLE, U-15H HALF CIRCLE, U-15F FULL CIRCLE, (15' RADIUS TYP.).	0.92 1.85 3.70	15'	30 PSI	--	I10/I-009

MP ROTATOR NOZZLE LEGEND
BY HUNTER INDUSTRIES

		RADIUS
BL	MP 3000 90-210 DEG (BLUE)	22'-30'
YE	MP 3000 210-270 DEG (YELLOW)	22'-30'
GY	MP 3000 360 DEG (GRAY)	22'-30'
BK	MP 2000 90-210 DEG (BLACK)	13'-21'
GN	MP 2000 210-270 DEG (GREEN)	13'-21'
RD	MP 2000 360 DEG (RED)	13'-21'
MR	MP 1000 90-210 DEG (MAROON)	8'-15'
LB	MP 1000 210-270 DEG (LIGHT BLUE)	8'-15'
OL	MP 1000 360 DEG (OLIVE)	8'-15'
OR	MP 800 SR 90-210 DEG (ORANGE)	6'-12'
LG	MP 800 SR 360 DEG (LIME GREEN)	6'-12'
CR	MPCORNER (TURQUOISE)	8'-15'

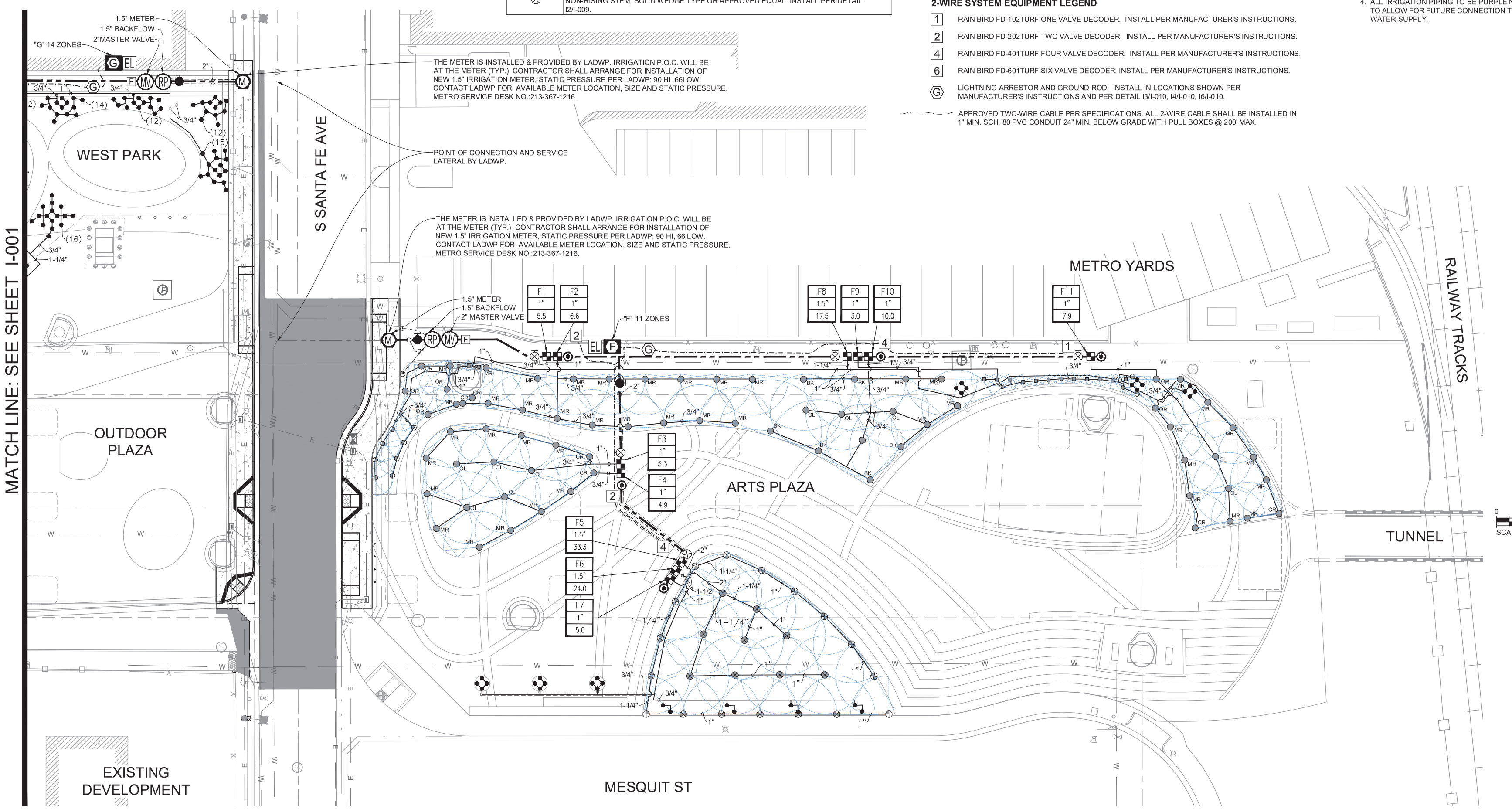
IRRIGATION VALVE LEGEND

- A–H — CONTROLLER & STATION NO.
- 2" — VALVE SIZE
- XX.X — STATION GPM

NOTES:
1. LOCATION OF BACKFLOW DEVICE AND ENCLOSURE MUST BE APPROVED BY LADWP.
2. ALL VALVES TO BE INSTALLED IN CONCRETE VALVE BOXES ("BROOKS 3-HL") WITH LOCKING STEEL COVERS.
3. ALL END RUNS OF LATERAL PIPE SHALL BE A MINIMUM OF 3/4" SIZE PIPE UNLESS NOTED OTHERWISE.
4. ALL IRRIGATION PIPING TO BE PURPLE NON-POTABLE TO ALLOW FOR FUTURE CONNECTION TO RECYCLED WATER SUPPLY.

2-WIRE SYSTEM EQUIPMENT LEGEND

- 1 — RAIN BIRD FD-102TURF ONE VALVE DECODER. INSTALL PER MANUFACTURER'S INSTRUCTIONS.
- 2 — RAIN BIRD FD-202TURF TWO VALVE DECODER. INSTALL PER MANUFACTURER'S INSTRUCTIONS.
- 4 — RAIN BIRD FD-401TURF FOUR VALVE DECODER. INSTALL PER MANUFACTURER'S INSTRUCTIONS.
- 6 — RAIN BIRD FD-601TURF SIX VALVE DECODER. INSTALL PER MANUFACTURER'S INSTRUCTIONS.
- (G) — LIGHTNING ARRESTOR AND GROUND ROD. INSTALL IN LOCATIONS SHOWN PER MANUFACTURER'S INSTRUCTIONS AND PER DETAIL I3/I-010, I4/I-010, I6/I-010.
- — · — · — APPROVED TWO-WIRE CABLE PER SPECIFICATIONS. ALL 2-WIRE CABLE SHALL BE INSTALLED IN 1" MIN. SCH. 80 PVC CONDUIT 24" MIN. BELOW GRADE WITH PULL BOXES @ 200' MAX.



PLANS PREPARED BY:
TETRA TECH, INC.
707 WILSHIRE BLVD. 23RD FLR.
LOS ANGELES, CA 90017
PHONE: (213) 239-8866

CITY OF LOS ANGELES — DEPARTMENT OF PUBLIC WORKS — BUREAU OF ENGINEERING

VERT. CONTROL: BM 12-04070, 1929 (NGVD29) - 1985 ADJUSTMENT
HORIZ. CONTROL: GPS; PID AE 1704, EPOCH 1991.35

SHEET TITLE: IRRIGATION PLAN SHEET 2
PROJECT: SIXTH STREET PARK, ARTS AND RIVER CONNECTIVITY IMPROVEMENTS (PARC)
ADDRESS: SIXTH STREET OVER THE LOS ANGELES RIVER

GARY LEE MOORE, P.E., ENV SP — CITY ENGINEER

DESIGN GROUP
ENGINEER: JUSTIN SMITH — LIC. NO. C-85736 — DATE: 07/11/22
DESIGNED BY: HEATH PRAY
DRAWN BY: HEATH PRAY
CHECKED BY: NATE SCHREINER
APPROVED BY: JASON L. FUSSEL

THIS PLAN WAS ELECTRONICALLY SIGNED AND STAMPED.
REGISTERED PROFESSIONAL ENGINEER — JUSTIN T. SMITH — No. 85736 — EXP. 9-30-22 — CIVIL — STATE OF CALIFORNIA

NO.	REVISIONS:	DATE:	BY:

INDEX NO.
BUILDING NO.

WORK ORDER NO. E700235D
FILE NO. --
DRAWING NO. I-002
SHEET 155 OF 295 SHEETS

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THE CITY OF LOS ANGELES OR ITS OFFICERS OR AGENTS SHALL NOT BE RESPONSIBLE FOR THE ACCURACY OR COMPLETENESS OF ELECTRONIC COPIES OF THIS PLAN SHEET.

REVISION DATES (DESIGN STAGE ONLY)

Sheet Version 3.0

BID SET - NOT FOR CONSTRUCTION

IRRIGATION EQUIPMENT LEGEND

SYMBOL	DESCRIPTION
(M)	CONTRACTOR SHALL ARRANGE FOR INSTALLATION OF NEW 1.5" IRRIGATION METER SERVICE WITH LADWP FOR EACH IRRIGATION P.O.C. INDICATED HEREIN. SEE IRRIGATION NOTES FOR ADDITIONAL INFORMATION.

IRRIGATION EQUIPMENT LEGEND

SYMBOL	DESCRIPTION
(RP)	1.5" OR 2.0" FEBCO LF825Y SERIES REDUCED PRESSURE BACKFLOW DEVICE WITH ENCLOSURE PER DETAIL I4/I-011 AND I5/I-011. CONTRACTOR SHALL DETERMINE EXACT LOCATION WITH THE CITY'S AUTHORIZED REPRESENTATIVE BEFORE INSTALLATION.
A C D E F G	CONTROLLER A, C-G: RAIN BIRD ESP-LXD 50-200 STATION CAPABLE TWO-WIRE DECODER CONTROLLER. MOUNT CONTROLLER INSIDE STAINLESS STEEL PEDESTAL ENCLOSURE PER DETAIL I1/I-011. CONTROLLER GROUNDING PER DETAIL I1/2-011, I1/3-011. CONTRACTOR SHALL DETERMINE EXACT LOCATION WITH THE PROJECT MANAGER BEFORE INSTALLATION. WEATHER SENSOR FOR CONTROLLER "G" ONLY PER DETAIL I7/I-011.
EL	120 VOLT ELECTRICAL POWER, PROVIDED BY ELECTRICIAN. CONTRACTOR SHALL COORDINATE AND VERIFY CONTROLLER PEDESTAL LOCATION IN FIELD WITH ELECTRICIAN. ELECTRICIAN SHALL ROUTE AND INSTALL ALL CONDUIT AND CONDUCTORS TO WITHIN THE CONTROLLER PEDESTAL LOCATION. IRRIGATION CONTRACTOR SHALL CONNECT IRRIGATION CONTROLLER TO ELECTRICAL STUB-OUT. CONTROLLER CIRCUIT SHALL BE SUPPLIED FROM A DEDICATED BREAKER FROM THE POWER SOURCE.
(MV)	BUCKNER SUPERIOR MODEL: 3100200 2" OR 3100250 2-1/2" NORMALLY OPEN SOLID BRASS MASTER VALVE. PROVIDE AND INSTALL PER MANUFACTURER'S INSTRUCTIONS. MASTER VALVE CONNECTS TO CONTROLLER USING RAIN BIRD SD-210 DECODER.
F	RAIN BIRD FS150B 1.5" OR FS200B 2" BRASS TEE FLOW SENSOR WITH RAIN BIRD SD-210 SENSOR DECODER. INSTALL PER DETAIL I7/I-010.
▚	REMOTE CONTROL VALVE: RAIN BIRD EFB-CP 100 OR 150 OR 200 SERIES BRASS VALVE - SEE PLAN CALLOUT FOR VALVE SIZE INSTALLER SHALL PROVIDE AND INSTALL RAIN BIRD 2-WIRE DECODERS AS INDICATED AT EACH MANIFOLD, AND PROGRAM PER MANUFACTURER'S INSTRUCTIONS. INSTALL PER DETAIL I5/I-009.
◉	QUICK COUPLING VALVE: 1" TWO PIECE QUICK COUPLING VALVE: RAINBIRD 44LRC, WITH 44K KEY AND SH-1 HOSE SWIVEL. PROVIDE ONE QUICK COUPLER KEY AND HOSE SWIVEL FOR EACH FIVE QUICK COUPLERS INSTALLED (MINIMUM ONE QUICK COUPLER KEY). INSTALL PER DETAIL I6/I-009.
— - - —	MAINLINE PIPING: 2-1/2" AND SMALLER SHALL BE SCH. 40 PVC; PURPLE NON-POTABLE PIPE WITH GLUED FITTINGS TYP. SEE DETAIL FOR MAINLINE SIZING IN VALVE MANIFOLDS.
———	PC SCH. 40 LATERAL LINE PIPING; PURPLE NON-POTABLE PIPE, SOLVENT WELD. SIZE AS NOTED.
- - - - -	PVC SLEEVE UNDER PAVING. SCHEDULE 40 PVC SLEEVE SHALL BE TWO PIPE SIZES GREATER THAN THE PIPING WHICH IS TO RUN IN THE SLEEVE, OR 4" DIA. FOR CONTROL WIRE WITHOUT MAINLINE. COVER DEPTH SHALL BE THE SAME AS THE MAINLINE OR LATER LINE. INSTALL PER DETAIL I8/I-009.
●	2" TO 2-1/2" BRONZE GATE VALVE: NIBCO T-113 SOLID BRONZE, NON-RISING STEM, SOLID WEDGE TYPE OR APPROVED EQUAL. INSTALL PER DETAIL I2/I-009.
⊗	MANIFOLD GATE VALVE. 2" TO 2-1/2" BRONZE GATE VALVE: NIBCO T-113 SOLID BRONZE, NON-RISING STEM, SOLID WEDGE TYPE OR APPROVED EQUAL. INSTALL PER DETAIL I2/I-009.

IRRIGATION HEADS LEGEND

SYMBOL	DESCRIPTION	GPM	SPACING	NOZZLE PRESSURE	PRECIP. RATE	DETAIL NUMBER
5Q 5H 5F	**RAINBIRD 5004 PLUS SERIES 40-360 DEG.** ROTOR STAINLESS STEEL RISER WITH PRS PRESSURE REGULATION AND SAM CHECK VALVE; MPR-30 GREEN NOZZLE	1.4 2.96 5.78	29'	40 PSI	--	I9/I-009
●	**RAINBIRD 1812-SAM-P45 SERIES** POP-UP SPRAY BODY WITH MP ROTATOR NOZZLE PER LEGEND AT RIGHT WITH RADIUS AND ARC AS REQUIRED.	0.21-3.64	11'-30'	40 PSI	--	I10/I-009
•	**RAIN BIRD RWS-M-B-C-1401 18"** (TREES), **RWS-S-B-C-1401 10"** (SHRUBS) ROOT WATERING SYSTEM ASSEMBLY WITH PRESSURE COMPENSATING BUBBLER. (#) ON PLAN = NUMBER OF UNITS PER TREE.	.25 GPH	--	--	--	I11/I-009
5Q 5H 5F 5CST	**RAIN BIRD 5 SERIES MPR STREAM BUBBLER ON RAIN BIRD 1806 SAM-PRS POP UP BODY,** 6" POP UP HEIGHT. 5Q-B QUARTER CIRCLE, 5H-B HALF CIRCLE, 5F-B FULL CIRCLE, 5CST-B DUAL STREAM; (5' RADIUS TYP.).	0.50 1.00 1.50 0.50	7'	30 PSI	--	I10/I-009
⊗	**RAIN BIRD U- SERIES NOZZLE ON RAIN BIRD SAM-PRS 1804 BODY**, 4" POP UP HEIGHT. U-15Q QUARTER CIRCLE, U-15H HALF CIRCLE, U-15F FULL CIRCLE, (15' RADIUS TYP.).	0.92 1.85 3.70	15'	30 PSI	--	I10/I-009

2-WIRE SYSTEM EQUIPMENT LEGEND

1	RAIN BIRD FD-102TURF ONE VALVE DECODER. INSTALL PER MANUFACTURER'S INSTRUCTIONS.
2	RAIN BIRD FD-202TURF TWO VALVE DECODER. INSTALL PER MANUFACTURER'S INSTRUCTIONS.
4	RAIN BIRD FD-401TURF FOUR VALVE DECODER. INSTALL PER MANUFACTURER'S INSTRUCTIONS.
6	RAIN BIRD FD-601TURF SIX VALVE DECODER. INSTALL PER MANUFACTURER'S INSTRUCTIONS.
(G)	LIGHTNING ARRESTOR AND GROUND ROD. INSTALL IN LOCATIONS SHOWN PER MANUFACTURER'S INSTRUCTIONS AND PER DETAIL I3/I-010, I4/I-010, I6/I-010.
-·-·-	APPROVED TWO-WIRE CABLE PER SPECIFICATIONS. ALL 2-WIRE CABLE SHALL BE INSTALLED IN 1" MIN. SCH. 80 PVC CONDUIT 24" MIN. BELOW GRADE WITH PULL BOXES @ 200' MAX.

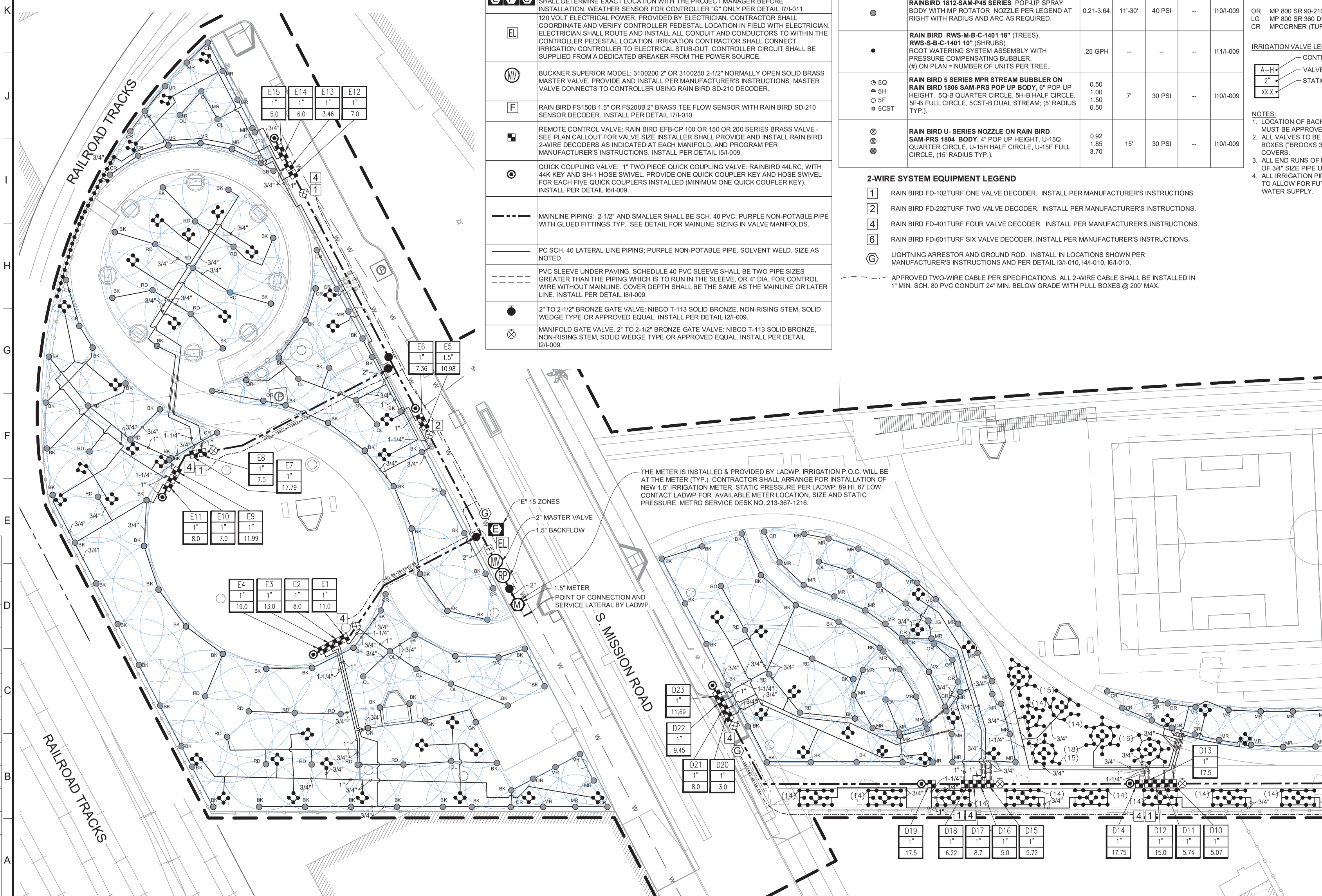
MP ROTATOR NOZZLE LEGEND
BY HUNTER INDUSTRIES

		RADIUS
BL	MP 3000 90-210 DEG (BLUE)	22'-30'
YE	MP 3000 210-270 DEG (YELLOW)	22'-30'
GY	MP 3000 360 DEG (GRAY)	22'-30'
BK	MP 2000 90-210 DEG (BLACK)	13'-21'
GN	MP 2000 210-270 DEG (GREEN)	13'-21'
RD	MP 2000 360 DEG (RED)	13'-21'
MR	MP 1000 90-210 DEG (MAROON)	8'-15'
LB	MP 1000 210-270 DEG (LIGHT BLUE)	8'-15'
OL	MP 1000 360 DEG (OLIVE)	8'-15'
OR	MP 800 SR 90-210 DEG (ORANGE)	6'-12'
LG	MP 800 SR 360 DEG (LIME GREEN)	6'-12'
CR	MPCORNER (TURQUOISE)	8'-15'

IRRIGATION VALVE LEGEND

A–H — CONTROLLER & STATION NO.
2" — VALVE SIZE
XX.X — STATION GPM

NOTES:
1. LOCATION OF BACKFLOW DEVICE AND ENCLOSURE MUST BE APPROVED BY LADWP.
2. ALL VALVES TO BE INSTALLED IN CONCRETE VALVE BOXES ("BROOKS 3-HL") WITH LOCKING STEEL COVERS.
3. ALL END RUNS OF LATERAL PIPE SHALL BE A MINIMUM OF 3/4" SIZE PIPE UNLESS NOTED OTHERWISE.
4. ALL IRRIGATION PIPING TO BE PURPLE NON-POTABLE TO ALLOW FOR FUTURE CONNECTION TO RECYCLED WATER SUPPLY.



SCALE: 1"=20'

PLANS PREPARED BY:
TETRA TECH, INC.
707 WILSHIRE BLVD, 23RD FLR.
LOS ANGELES, CA 90017
PHONE: (213) 239-8866

CITY OF LOS ANGELES DEPARTMENT OF PUBLIC WORKS BUREAU OF ENGINEERING

VERT. CONTROL: BM 12-04070, 1929 (NGVD29) - 1985 ADJUSTMENT
HORIZ. CONTROL: GPS; PID AE 1704, EPOCH 1991.35

SHEET TITLE: IRRIGATION PLAN SHEET 3
PROJECT: SIXTH STREET PARK, ARTS AND RIVER CONNECTIVITY IMPROVEMENTS (PARC)
ADDRESS: SIXTH STREET OVER THE LOS ANGELES RIVER

GARY LEE MOORE, P.E., ENV SP — CITY ENGINEER
DESIGN GROUP
ENGINEER: JUSTIN SMITH LIC. NO. C-85736 DATE: 07/11/22
DESIGNED BY: HEATH PRAY
DRAWN BY: HEATH PRAY
CHECKED BY: NATE SCHREINER
APPROVED BY: JASON L. FUSSEL

THIS PLAN WAS ELECTRONICALLY SIGNED AND STAMPED
REGISTERED PROFESSIONAL ENGINEER JUSTIN T. SMITH No. 85736 EXP: 9-30-22 CIVIL STATE OF CALIFORNIA

NO. REVISIONS: DATE: BY:
INDEX NO.
BUILDING NO.

WORK ORDER NO. E700235D
FILE NO. --
DRAWING NO. I-003
SHEET 156 OF 295 SHEETS

7/7/2022 10:39:05 AM - O:\PROJECTS\IRVINE\20043\200-20043-17001\CAD\SHEETFILES\I-003_IRRIGATION PLAN.DWG - PRAY, HEATH

REVISION DATES (DESIGN STAGE ONLY)

Sheet Version 3.0

BID SET - NOT FOR CONSTRUCTION

IRRIGATION EQUIPMENT LEGEND

SYMBOL	DESCRIPTION
(M)	CONTRACTOR SHALL ARRANGE FOR INSTALLATION OF NEW 1.5" IRRIGATION METER SERVICE WITH LADWP FOR EACH IRRIGATION P.O.C. INDICATED HEREIN. SEE IRRIGATION NOTES FOR ADDITIONAL INFORMATION.
(RP)	1.5" OR 2.0" FEBCO LF825Y SERIES REDUCED PRESSURE BACKFLOW DEVICE WITH ENCLOSURE PER DETAIL I4/I-011 AND I5/I-011. CONTRACTOR SHALL DETERMINE EXACT LOCATION WITH THE CITY'S AUTHORIZED REPRESENTATIVE BEFORE INSTALLATION.
A C D E F G	CONTROLLER A, C-G: RAIN BIRD ESP-LXD 50-200 STATION CAPABLE TWO-WIRE DECODER CONTROLLER. MOUNT CONTROLLER INSIDE STAINLESS STEEL PEDESTAL ENCLOSURE PER DETAIL I1/I-011. CONTROLLER GROUNDING PER DETAIL I1/2-011, I1/3-011. CONTRACTOR SHALL DETERMINE EXACT LOCATION WITH THE PROJECT MANAGER BEFORE INSTALLATION. WEATHER SENSOR FOR CONTROLLER "G" ONLY PER DETAIL I7/I-011.
EL	120 VOLT ELECTRICAL POWER, PROVIDED BY ELECTRICIAN. CONTRACTOR SHALL COORDINATE AND VERIFY CONTROLLER PEDESTAL LOCATION IN FIELD WITH ELECTRICIAN. ELECTRICIAN SHALL ROUTE AND INSTALL ALL CONDUIT AND CONDUCTORS TO WITHIN THE CONTROLLER PEDESTAL LOCATION. IRRIGATION CONTRACTOR SHALL CONNECT IRRIGATION CONTROLLER TO ELECTRICAL STUB-OUT. CONTROLLER CIRCUIT SHALL BE SUPPLIED FROM A DEDICATED BREAKER FROM THE POWER SOURCE.
(MV)	BUCKNER SUPERIOR MODEL: 3100200 2" OR 3100250 2-1/2" NORMALLY OPEN SOLID BRASS MASTER VALVE. PROVIDE AND INSTALL PER MANUFACTURER'S INSTRUCTIONS. MASTER VALVE CONNECTS TO CONTROLLER USING RAIN BIRD SD-210 DECODER.
F	RAIN BIRD FS150B 1.5" OR FS200B 2" BRASS TEE FLOW SENSOR WITH RAIN BIRD SD-210 SENSOR DECODER. INSTALL PER DETAIL I7/I-010.

AREA IRRIGATED BY EPIC SYSTEM

IRRIGATION EQUIPMENT LEGEND

SYMBOL	DESCRIPTION
■	REMOTE CONTROL VALVE: RAIN BIRD EFB-CP 100 OR 150 OR 200 SERIES BRASS VALVE - SEE PLAN CALLOUT FOR VALVE SIZE INSTALLER SHALL PROVIDE AND INSTALL RAIN BIRD 2-WIRE DECODERS AS INDICATED AT EACH MANIFOLD, AND PROGRAM PER MANUFACTURER'S INSTRUCTIONS. INSTALL PER DETAIL I5/I-009.
⊙	QUICK COUPLING VALVE: 1" TWO PIECE QUICK COUPLING VALVE: RAINBIRD 44LRC, WITH 44K KEY AND SH-1 HOSE SWIVEL. PROVIDE ONE QUICK COUPLER KEY AND HOSE SWIVEL FOR EACH FIVE QUICK COUPLERS INSTALLED (MINIMUM ONE QUICK COUPLER KEY). INSTALL PER DETAIL I6/I-009.
— · —	MAINLINE PIPING: 2-1/2" AND SMALLER SHALL BE SCH. 40 PVC; PURPLE NON-POTABLE PIPE WITH GLUED FITTINGS TYP. SEE DETAIL FOR MAINLINE SIZING IN VALVE MANIFOLDS.
———	PC SCH. 40 LATERAL LINE PIPING; PURPLE NON-POTABLE PIPE, SOLVENT WELD. SIZE AS NOTED.
- - - -	PVC SLEEVE UNDER PAVING. SCHEDULE 40 PVC SLEEVE SHALL BE TWO PIPE SIZES GREATER THAN THE PIPING WHICH IS TO RUN IN THE SLEEVE, OR 4" DIA. FOR CONTROL WIRE WITHOUT MAINLINE. COVER DEPTH SHALL BE THE SAME AS THE MAINLINE OR LATER LINE. INSTALL PER DETAIL I8/I-009.
●	2" TO 2-1/2" BRONZE GATE VALVE: NIBCO T-113 SOLID BRONZE, NON-RISING STEM, SOLID WEDGE TYPE OR APPROVED EQUAL. INSTALL PER DETAIL I2/I-009.
⊗	MANIFOLD GATE VALVE. 2" TO 2-1/2" BRONZE GATE VALVE: NIBCO T-113 SOLID BRONZE, NON-RISING STEM, SOLID WEDGE TYPE OR APPROVED EQUAL. INSTALL PER DETAIL I2/I-009.

2-WIRE SYSTEM EQUIPMENT LEGEND

1 RAIN BIRD FD-102TURF ONE VALVE DECODER. INSTALL PER MANUFACTURER'S INSTRUCTIONS.

2 RAIN BIRD FD-202TURF TWO VALVE DECODER. INSTALL PER MANUFACTURER'S INSTRUCTIONS.

4 RAIN BIRD FD-401TURF FOUR VALVE DECODER. INSTALL PER MANUFACTURER'S INSTRUCTIONS.

6 RAIN BIRD FD-601TURF SIX VALVE DECODER. INSTALL PER MANUFACTURER'S INSTRUCTIONS.

(G) LIGHTNING ARRESTOR AND GROUND ROD. INSTALL IN LOCATIONS SHOWN PER MANUFACTURER'S INSTRUCTIONS AND PER DETAIL I3/I-010, I4/I-010, I6/I-010.

— · — APPROVED TWO-WIRE CABLE PER SPECIFICATIONS. ALL 2-WIRE CABLE SHALL BE INSTALLED IN 1" MIN. SCH. 80 PVC CONDUIT 24" MIN. BELOW GRADE WITH PULL BOXES @ 200' MAX.

IRRIGATION HEADS LEGEND

SYMBOL	DESCRIPTION	GPM	SPACING	NOZZLE PRESSURE	PRECIP. RATE	DETAIL NUMBER
⊗ ⊗ ⊗	**RAINBIRD 5004 PLUS SERIES 40-360 DEG.** ROTOR STAINLESS STEEL RISER WITH PRS PRESSURE REGULATION AND SAM CHECK VALVE; MPR-30 GREEN NOZZLE	1.4 2.96 5.78	29'	40 PSI	--	I9/I-009
●	**RAINBIRD 1812-SAM-P45 SERIES** POP-UP SPRAY BODY WITH MP ROTATOR NOZZLE PER LEGEND AT RIGHT WITH RADIUS AND ARC AS REQUIRED.	0.21-3.64	11'-30'	40 PSI	--	I10/I-009
•	**RAIN BIRD RWS-M-B-C-1401 18"** (TREES), **RWS-S-B-C-1401 10"** (SHRUBS) ROOT WATERING SYSTEM ASSEMBLY WITH PRESSURE COMPENSATING BUBBLER. (#) ON PLAN = NUMBER OF UNITS PER TREE.	.25 GPH	--	--	--	I11/I-009
5Q 5H 5F 5CST	**RAIN BIRD 5 SERIES MPR STREAM BUBBLER ON RAIN BIRD 1806 SAM-PRS POP UP BODY,** 6" POP UP HEIGHT. 5Q-B QUARTER CIRCLE, 5H-B HALF CIRCLE, 5F-B FULL CIRCLE, 5CST-B DUAL STREAM; (5' RADIUS TYP.).	0.50 1.00 1.50 0.50	7'	30 PSI	--	I10/I-009
⊗ ⊗ ⊗	**RAIN BIRD U- SERIES NOZZLE ON RAIN BIRD SAM-PRS 1804 BODY,** 4" POP UP HEIGHT. U-15Q QUARTER CIRCLE, U-15H HALF CIRCLE, U-15F FULL CIRCLE, (15' RADIUS TYP.).	0.92 1.85 3.70	15'	30 PSI	--	I10/I-009

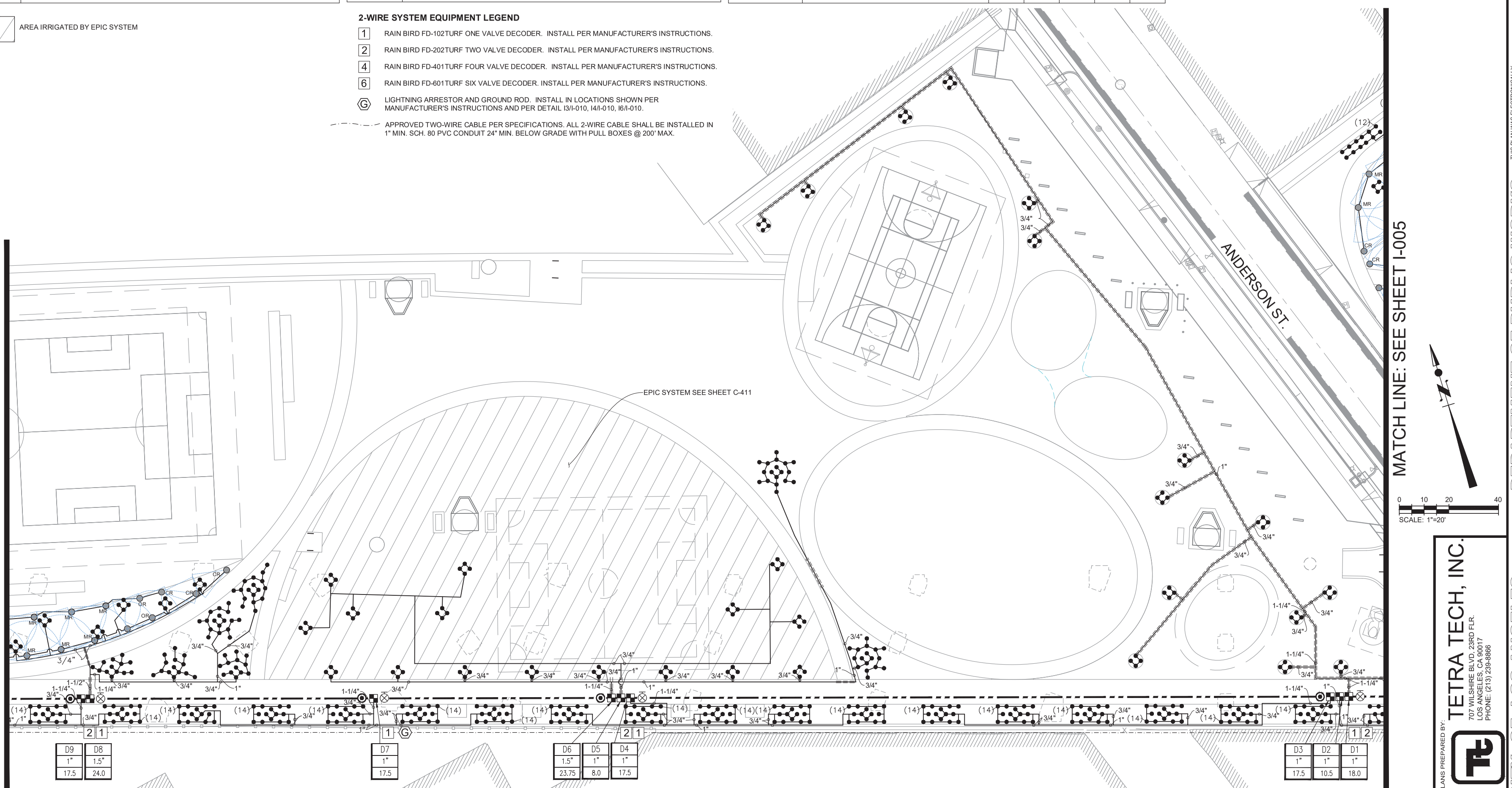
MP ROTATOR NOZZLE LEGEND
BY HUNTER INDUSTRIES

		RADIUS
BL	MP 3000 90-210 DEG (BLUE)	22'-30'
YE	MP 3000 210-270 DEG (YELLOW)	22'-30'
GY	MP 3000 360 DEG (GRAY)	22'-30'
BK	MP 2000 90-210 DEG (BLACK)	13'-21'
GN	MP 2000 210-270 DEG (GREEN)	13'-21'
RD	MP 2000 360 DEG (RED)	13'-21'
MR	MP 1000 90-210 DEG (MAROON)	8'-15'
LB	MP 1000 210-270 DEG (LIGHT BLUE)	8'-15'
OL	MP 1000 360 DEG (OLIVE)	8'-15'
OR	MP 800 SR 90-210 DEG (ORANGE)	6'-12'
LG	MP 800 SR 360 DEG (LIME GREEN)	6'-12'
CR	MPCORNER (TURQUOISE)	8'-15'

IRRIGATION VALVE LEGEND

A-H — CONTROLLER & STATION NO.
2" — VALVE SIZE
XX.X — STATION GPM

NOTES:
1. LOCATION OF BACKFLOW DEVICE AND ENCLOSURE MUST BE APPROVED BY LADWP.
2. ALL VALVES TO BE INSTALLED IN CONCRETE VALVE BOXES ("BROOKS 3-HL") WITH LOCKING STEEL COVERS.
3. ALL END RUNS OF LATERAL PIPE SHALL BE A MINIMUM OF 3/4" SIZE PIPE UNLESS NOTED OTHERWISE.
4. ALL IRRIGATION PIPING TO BE PURPLE NON-POTABLE TO ALLOW FOR FUTURE CONNECTION TO RECYCLED WATER SUPPLY.



REVISION DATES (DESIGN STAGE ONLY)

Sheet Version 3.0

PLANS PREPARED BY:
TETRA TECH, INC.
707 WILSHIRE BLVD, 23RD FLR.
LOS ANGELES, CA 90017
PHONE: (213) 239-8866

CITY OF LOS ANGELES — DEPARTMENT OF PUBLIC WORKS — BUREAU OF ENGINEERING

VERT. CONTROL: BM 12-04070, 1929 (NGVD29) - 1985 ADJUSTMENT
HORIZ. CONTROL: GPS; PID AE 1704, EPOCH 1991.35

SHEET TITLE: IRRIGATION PLAN SHEET 4
PROJECT: SIXTH STREET PARK, ARTS AND RIVER CONNECTIVITY IMPROVEMENTS (PARC)
ADDRESS: SIXTH STREET OVER THE LOS ANGELES RIVER

GARY LEE MOORE, P.E., ENV SP — CITY ENGINEER
DESIGN GROUP
ENGINEER: JUSTIN SMITH — LIC. NO. C-85736 — DATE: 07/11/22
DESIGNED BY: HEATH PRAY
DRAWN BY: HEATH PRAY
CHECKED BY: NATE SCHREINER
APPROVED BY: JASON L. FUSSEL

THIS PLAN WAS ELECTRONICALLY SIGNED AND STAMPED

REGISTERED PROFESSIONAL ENGINEER — JUSTIN T. SMITH — No. 85736 — EXP. 9-30-22 — CIVIL — STATE OF CALIFORNIA

NO. | REVISIONS | DATE | BY

INDEX NO.

BUILDING NO.

ENGINEERING — CITY OF LOS ANGELES

WORK ORDER NO. E700235D
FILE NO. --
DRAWING NO. I-004
SHEET 157 OF 295 SHEETS

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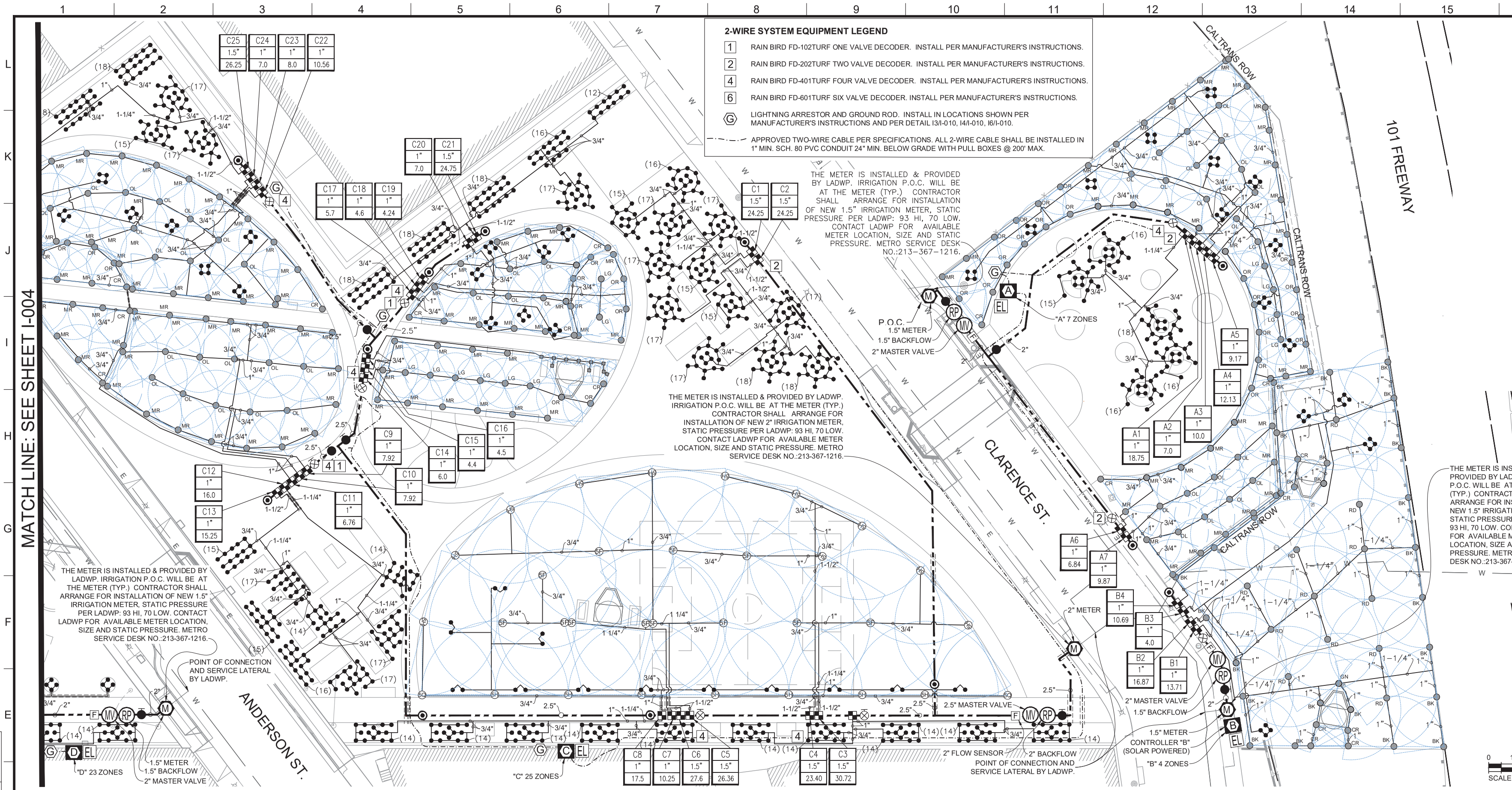

SYMBOL	DESCRIPTION
IRRIGATION EQUIPMENT LEGEND	
M	CONTRACTOR SHALL ARRANGE FOR INSTALLATION OF NEW 1.5" OR 2.0" IRRIGATION METER SERVICE WITH LADWP FOR EACH IRRIGATION P.O.C. INDICATED HEREIN. SEE IRRIGATION NOTES FOR ADDITIONAL INFORMATION.
RP	1.5" OR 2.0" FEBCO LF825Y SERIES REDUCED PRESSURE BACKFLOW DEVICE WITH ENCLOSURE PER DETAIL I4/I-011 AND I5/I-011. CONTRACTOR SHALL DETERMINE EXACT LOCATION WITH THE CITY'S AUTHORIZED REPRESENTATIVE BEFORE INSTALLATION.
A C D E F G	CONTROLLER A, C-G: RAIN BIRD ESP-LXD 50-200 STATION CAPABLE TWO-WIRE DECODER CONTROLLER. MOUNT CONTROLLER INSIDE STAINLESS STEEL PEDESTAL ENCLOSURE PER DETAIL I1/I-011. CONTROLLER GROUNDING PER DETAIL I1/2-011, I1/3-011. CONTRACTOR SHALL DETERMINE EXACT LOCATION WITH THE CITY'S AUTHORIZED REPRESENTATIVE BEFORE INSTALLATION. WEATHER SENSOR FOR CONTROLLER "G" ONLY PER DETAIL I7/I-011.
B	CONTROLLER H: LEIT 4004 4 STATION SOLAR POWERED CONTROLLER. POLE MOUNTED CONTROLLER WITH MANUFACTURER'S ENCLOSURE PER DETAIL I6/I-011. CONTRACTOR SHALL DETERMINE EXACT LOCATION WITH THE CITY'S AUTHORIZED REPRESENTATIVE BEFORE INSTALLATION.
EL	120 VOLT ELECTRICAL POWER, PROVIDED BY ELECTRICIAN. CONTRACTOR SHALL COORDINATE AND VERIFY CONTROLLER PEDESTAL LOCATION IN FIELD WITH ELECTRICIAN. ELECTRICIAN SHALL ROUTE AND INSTALL ALL CONDUIT AND CONDUCTORS TO WITHIN THE CONTROLLER PEDESTAL LOCATION. IRRIGATION CONTRACTOR SHALL CONNECT IRRIGATION CONTROLLER TO ELECTRICAL STUB-OUT. CONTROLLER CIRCUIT SHALL BE SUPPLIED FROM A DEDICATED BREAKER FROM THE POWER SOURCE.
MV	BUCKNER SUPERIOR MODEL: 3100200 2" OR 3100250 2-1/2" NORMALLY OPEN SOLID BRASS MASTER VALVE. PROVIDE AND INSTALL PER MANUFACTURER'S INSTRUCTIONS. MASTER VALVE CONNECTS TO CONTROLLER USING RAIN BIRD SD-210 DECODER.
F	RAIN BIRD FS150B 1.5" OR FS200B 2" BRASS TEE FLOW SENSOR WITH RAIN BIRD SD-210 SENSOR DECODER. INSTALL PER DETAIL I7/I-010.

SYMBOL	DESCRIPTION
IRRIGATION EQUIPMENT LEGEND	
(remote control valve)	REMOTE CONTROL VALVE: RAIN BIRD EFB-CP 100 OR 150 OR 200 SERIES BRASS VALVE - SEE PLAN CALLOUT FOR VALVE SIZE INSTALLER SHALL PROVIDE AND INSTALL RAIN BIRD 2-WIRE DECODERS AS INDICATED AT EACH MANIFOLD, AND PROGRAM PER MANUFACTURER'S INSTRUCTIONS. INSTALL PER DETAIL I5/I-009.
(quick coupling valve)	QUICK COUPLING VALVE: 1" TWO PIECE QUICK COUPLING VALVE: RAINBIRD 44LRC, WITH 44K KEY AND SH-1 HOSE SWIVEL. PROVIDE ONE QUICK COUPLER KEY AND HOSE SWIVEL FOR EACH FIVE QUICK COUPLERS INSTALLED (MINIMUM ONE QUICK COUPLER KEY). INSTALL PER DETAIL I6/I-009.
(mainline)	MAINLINE PIPING: 2-1/2" AND SMALLER SHALL BE SCH. 40 PVC; PURPLE NON-POTABLE PIPE WITH GLUED FITTINGS TYP. SEE DETAIL FOR MAINLINE SIZING IN VALVE MANIFOLDS.
(lateral)	PC SCH. 40 LATERAL LINE PIPING; PURPLE NON-POTABLE PIPE, SOLVENT WELD. SIZE AS NOTED.
(sleeve)	PVC SLEEVE UNDER PAVING. SCHEDULE 40 PVC SLEEVE SHALL BE TWO PIPE SIZES GREATER THAN THE PIPING WHICH IS TO RUN IN THE SLEEVE, OR 4" DIA. FOR CONTROL WIRE WITHOUT MAINLINE. COVER DEPTH SHALL BE THE SAME AS THE MAINLINE OR LATER LINE. INSTALL PER DETAIL I8/I-009.
(gate valve)	2" TO 2-1/2" BRONZE GATE VALVE: NIBCO T-113 SOLID BRONZE, NON-RISING STEM, SOLID WEDGE TYPE OR APPROVED EQUAL. INSTALL PER DETAIL I2/I-009.
(manifold gate valve)	MANIFOLD GATE VALVE. 2" TO 2-1/2" BRONZE GATE VALVE: NIBCO T-113 SOLID BRONZE, NON-RISING STEM, SOLID WEDGE TYPE OR APPROVED EQUAL. INSTALL PER DETAIL I2/I-009.

IRRIGATION HEADS LEGEND

SYMBOL	DESCRIPTION	GPM	SPACING	NOZZLE PRESSURE	PRECIP RATE	DETAIL NUMBER
	RAINBIRD 5004 PLUS SERIES 40-360 DEG. ROTOR STAINLESS STEEL RISER WITH PRS PRESSURE REGULATION AND SAM CHECK VALVE; MPR-30 GREEN NOZZLE	1.4 2.96 5.78	29'	40 PSI	--	I9/I-009
	RAINBIRD 1812-SAM-P45 SERIES POP-UP SPRAY BODY WITH MP ROTATOR NOZZLE PER LEGEND AT RIGHT WITH RADIUS AND ARC AS REQUIRED.	0.21-3.64	11'-30'	40 PSI	--	I10/I-009
	RAIN BIRD RWS-M-B-C-1401 18" (TREES), **RWS-S-B-C-1401 10"** (SHRUBS) ROOT WATERING SYSTEM ASSEMBLY WITH PRESSURE COMPENSATING BUBBLER. (#) ON PLAN = NUMBER OF UNITS PER TREE.	.25 GPH	--	--	--	I11/I-009
5Q 5H 5F 5CST	**RAIN BIRD 5 SERIES MPR STREAM BUBBLER ON RAIN BIRD 1806 SAM-PRS POP UP BODY,** 6" POP UP HEIGHT. 5Q-B QUARTER CIRCLE, 5H-B HALF CIRCLE, 5F-B FULL CIRCLE, 5CST-B DUAL STREAM; (5' RADIUS TYP.).	0.50 1.00 1.50 0.50	7'	30 PSI	--	I10/I-009
	RAIN BIRD U- SERIES NOZZLE ON RAIN BIRD SAM-PRS 1804 BODY, 4" POP UP HEIGHT. U-15Q QUARTER CIRCLE, U-15H HALF CIRCLE, U-15F FULL CIRCLE, (15' RADIUS TYP.).	0.92 1.85 3.70	15'	30 PSI	--	I10/I-009

MP ROTATOR NOZZLE LEGEND
BY HUNTER INDUSTRIES

		RADIUS
BL	MP 3000 90-210 DEG (BLUE)	22'-30'
YE	MP 3000 210-270 DEG (YELLOW)	22'-30'
GY	MP 3000 360 DEG (GRAY)	22'-30'
BK	MP 2000 90-210 DEG (BLACK)	13'-21'
GN	MP 2000 210-270 DEG (GREEN)	13'-21'
RD	MP 2000 360 DEG (RED)	13'-21'
MR	MP 1000 90-210 DEG (MAROON)	8'-15'
LB	MP 1000 210-270 DEG (LIGHT BLUE)	8'-15'
OL	MP 1000 360 DEG (OLIVE)	8'-15'
OR	MP 800 SR 90-210 DEG (ORANGE)	6'-12'
LG	MP 800 SR 360 DEG (LIME GREEN)	6'-12'
CR	MPCORNER (TURQUOISE)	8'-15'

IRRIGATION VALVE LEGEND
A-H — CONTROLLER & STATION NO.
2" — VALVE SIZE
XX.X — STATION GPM

NOTES:
1. LOCATION OF BACKFLOW DEVICE AND ENCLOSURE MUST BE APPROVED BY LADWP.
2. ALL VALVES TO BE INSTALLED IN CONCRETE VALVE BOXES ("BROOKS 3-HL") WITH LOCKING STEEL COVERS.
3. ALL END RUNS OF LATERAL PIPE SHALL BE A MINIMUM OF 3/4" SIZE PIPE UNLESS NOTED OTHERWISE.
4. ALL IRRIGATION PIPING TO BE PURPLE NON-POTABLE TO ALLOW FOR FUTURE CONNECTION TO RECYCLED WATER SUPPLY.

PLANS PREPARED BY:
TETRA TECH, INC.
707 WILSHIRE BLVD. 23RD FLR.
LOS ANGELES, CA 90017
PHONE: (213) 239-8866

CITY OF LOS ANGELES — DEPARTMENT OF PUBLIC WORKS — BUREAU OF ENGINEERING

VERT. CONTROL: BM 12-04070, 1929 (NGVD29) - 1985 ADJUSTMENT
HORIZ. CONTROL: GPS; PID AE 1704, EPOCH 1991.35

GARY LEE MOORE, P.E., ENV SP — CITY ENGINEER
DESIGN GROUP
ENGINEER: JUSTIN SMITH — LIC. NO. C-85736 — DATE: 07/11/22
DESIGNED BY: HEATH PRAY
DRAWN BY: HEATH PRAY
CHECKED BY: NATE SCHREINER
APPROVED BY: JASON L. FUSSEL

SHEET TITLE: IRRIGATION PLAN SHEET 5
PROJECT: SIXTH STREET PARK, ARTS AND RIVER CONNECTIVITY IMPROVEMENTS (PARC)
ADDRESS: SIXTH STREET OVER THE LOS ANGELES RIVER

WORK ORDER NO. E700235D
FILE NO. --
DRAWING NO. I-005
SHEET 158 OF 295 SHEETS

THIS PLAN WAS ELECTRONICALLY SIGNED AND STAMPED
REGISTERED PROFESSIONAL ENGINEER — JUSTIN T. SMITH — No. 85736 — EXP. 9-30-22 — CIVIL — STATE OF CALIFORNIA

NO. | REVISIONS | DATE | BY
INDEX NO.
BUILDING NO.

THE CITY OF LOS ANGELES OR ITS OFFICERS OR AGENTS SHALL NOT BE RESPONSIBLE FOR THE ACCURACY OR COMPLETENESS OF ELECTRONIC COPIES OF THIS PLAN SHEET.

REVISION DATES (DESIGN STAGE ONLY)

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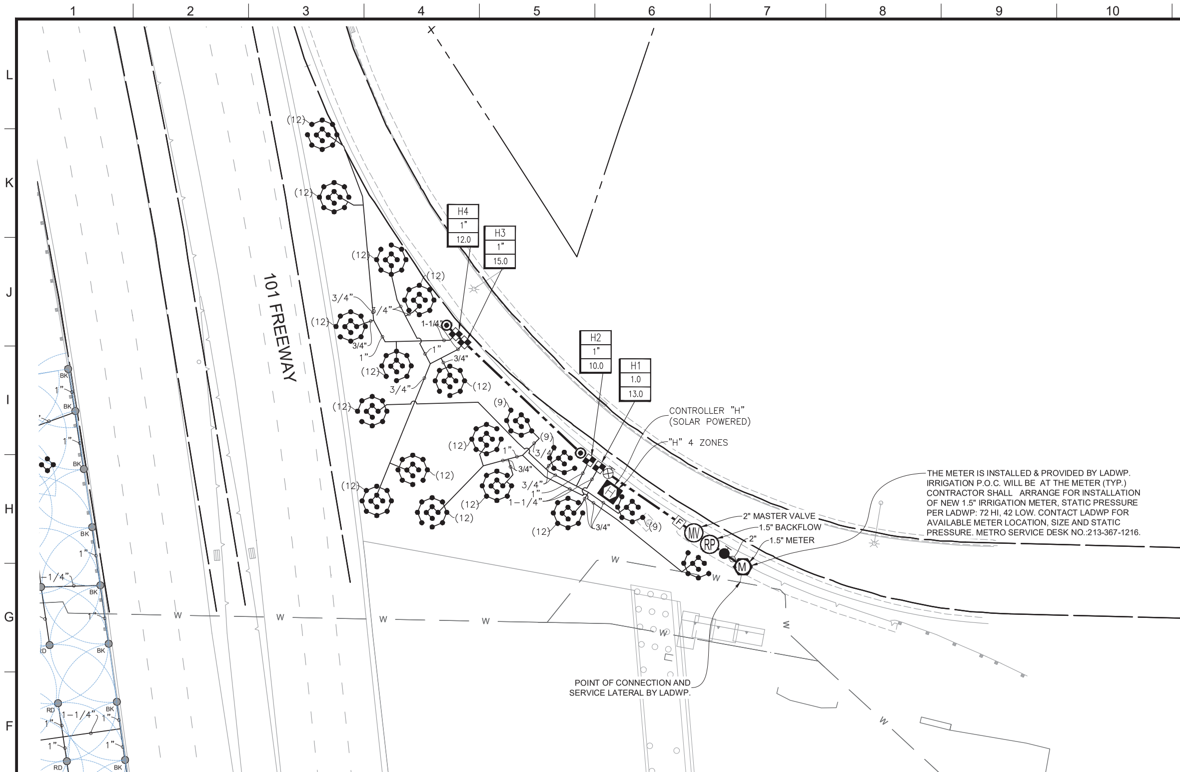

IRRIGATION EQUIPMENT LEGEND

SYMBOL	DESCRIPTION
(M)	CONTRACTOR SHALL ARRANGE FOR INSTALLATION OF NEW 1.5" IRRIGATION METER SERVICE WITH LADWP FOR EACH IRRIGATION P.O.C. INDICATED HEREIN. SEE IRRIGATION NOTES FOR ADDITIONAL INFORMATION.
(RP)	1.5" OR 2.0" FEBCO LF825Y SERIES REDUCED PRESSURE BACKFLOW DEVICE WITH ENCLOSURE PER DETAIL I4/I-011 AND I5/I-011. CONTRACTOR SHALL DETERMINE EXACT LOCATION WITH THE CITY'S AUTHORIZED REPRESENTATIVE BEFORE INSTALLATION.
(H)	CONTROLLER H: LEIT 4004 4 STATION SOLAR POWERED CONTROLLER. POLE MOUNTED CONTROLLER WITH MANUFACTURER'S ENCLOSURE PER DETAIL I6/I-011. INCLUDE MINI CLIK WEATHER SENSOR AND SKIT8821-4 SENSOR ADAPTOR FOR CONTROLLER "H" ONLY PER DETAIL I7/I-011. CONTRACTOR SHALL DETERMINE EXACT LOCATION WITH THE CITY'S AUTHORIZED REPRESENTATIVE BEFORE INSTALLATION.
(MV)	BUCKNER SUPERIOR MODEL: 3100200 2" OR 3100250 2-1/2" NORMALLY OPEN SOLID BRASS MASTER VALVE. PROVIDE AND INSTALL PER MANUFACTURER'S INSTRUCTIONS. MASTER VALVE CONNECTS TO CONTROLLER USING RAIN BIRD SD-210 DECODER.
F	RAIN BIRD FS150B 1-1/2" BRASS TEE FLOW SENSOR WITH RAIN BIRD SD-210 SENSOR DECODER. INSTALL PER DETAIL I7/I-010.

IRRIGATION EQUIPMENT LEGEND

SYMBOL	DESCRIPTION
■	REMOTE CONTROL VALVE: RAIN BIRD EFB-CP 100 OR 150 OR 200 SERIES BRASS VALVE - SEE PLAN CALLOUT FOR VALVE SIZE INSTALLER SHALL PROVIDE AND INSTALL RAIN BIRD 2-WIRE DECODERS AS INDICATED AT EACH MANIFOLD, AND PROGRAM PER MANUFACTURER'S INSTRUCTIONS. INSTALL PER DETAIL I5/I-009.
⊙	QUICK COUPLING VALVE: 1" TWO PIECE QUICK COUPLING VALVE: RAINBIRD 44LRC, WITH 44K KEY AND SH-1 HOSE SWIVEL. PROVIDE ONE QUICK COUPLER KEY AND HOSE SWIVEL FOR EACH FIVE QUICK COUPLERS INSTALLED (MINIMUM ONE QUICK COUPLER KEY). INSTALL PER DETAIL I6/I-009.
—·—	MAINLINE PIPING: 2-1/2" AND SMALLER SHALL BE SCH. 40 PVC; PURPLE NON-POTABLE PIPE WITH GLUED FITTINGS TYP. SEE DETAIL FOR MAINLINE SIZING IN VALVE MANIFOLDS.
——	PC SCH. 40 LATERAL LINE PIPING; PURPLE NON-POTABLE PIPE, SOLVENT WELD. SIZE AS NOTED.
– – –	PVC SLEEVE UNDER PAVING. SCHEDULE 40 PVC SLEEVE SHALL BE TWO PIPE SIZES GREATER THAN THE PIPING WHICH IS TO RUN IN THE SLEEVE, OR 4" DIA. FOR CONTROL WIRE WITHOUT MAINLINE. COVER DEPTH SHALL BE THE SAME AS THE MAINLINE OR LATER LINE. INSTALL PER DETAIL I8/I-009.
●	2" TO 2-1/2" BRONZE GATE VALVE: NIBCO T-113 SOLID BRONZE, NON-RISING STEM, SOLID WEDGE TYPE OR APPROVED EQUAL. INSTALL PER DETAIL I2/I-009.
⊗	MANIFOLD GATE VALVE. 2" TO 2-1/2" BRONZE GATE VALVE: NIBCO T-113 SOLID BRONZE, NON-RISING STEM, SOLID WEDGE TYPE OR APPROVED EQUAL. INSTALL PER DETAIL I2/I-009.

IRRIGATION HEADS LEGEND

SYMBOL	DESCRIPTION	GPM	SPACING	NOZZLE PRESSURE	PRECIP. RATE	DETAIL NUMBER
	RAINBIRD 5004 PLUS SERIES 40-360 DEG. ROTOR STAINLESS STEEL RISER WITH PRS PRESSURE REGULATION AND SAM CHECK VALVE; MPR-30 GREEN NOZZLE	1.4 2.96 5.78	29'	40 PSI	--	I9/I-009
	RAINBIRD 1812-SAM-P45 SERIES POP-UP SPRAY BODY WITH MP ROTATOR NOZZLE PER LEGEND AT RIGHT WITH RADIUS AND ARC AS REQUIRED.	0.21-3.64	11'-30'	40 PSI	--	I10/I-009
•	**RAIN BIRD RWS-M-B-C-1401 18"** (TREES), **RWS-S-B-C-1401 10"** (SHRUBS) ROOT WATERING SYSTEM ASSEMBLY WITH PRESSURE COMPENSATING BUBBLER. (#) ON PLAN = NUMBER OF UNITS PER TREE.	.25 GPH	--	--	--	I11/I-009
5Q 5H 5F 5CST	**RAIN BIRD 5 SERIES MPR STREAM BUBBLER ON RAIN BIRD 1806 SAM-PRS POP UP BODY,** 6" POP UP HEIGHT. 5Q-B QUARTER CIRCLE, 5H-B HALF CIRCLE, 5F-B FULL CIRCLE, 5CST-B DUAL STREAM; (5' RADIUS TYP.).	0.50 1.00 1.50 0.50	7'	30 PSI	--	I10/I-009
	RAIN BIRD U- SERIES NOZZLE ON RAIN BIRD SAM-PRS 1804 BODY, 4" POP UP HEIGHT. U-15Q QUARTER CIRCLE, U-15H HALF CIRCLE, U-15F FULL CIRCLE, (15' RADIUS TYP.).	0.92 1.85 3.70	15'	30 PSI	--	I10/I-009

MP ROTATOR NOZZLE LEGEND
BY HUNTER INDUSTRIES

		RADIUS
BL	MP 3000 90-210 DEG (BLUE)	22'-30'
YE	MP 3000 210-270 DEG (YELLOW)	22'-30'
GY	MP 3000 360 DEG (GRAY)	22'-30'
BK	MP 2000 90-210 DEG (BLACK)	13'-21'
GN	MP 2000 210-270 DEG (GREEN)	13'-21'
RD	MP 2000 360 DEG (RED)	13'-21'
MR	MP 1000 90-210 DEG (MAROON)	8'-15'
LB	MP 1000 210-270 DEG (LIGHT BLUE)	8'-15'
OL	MP 1000 360 DEG (OLIVE)	8'-15'
OR	MP 800 SR 90-210 DEG (ORANGE)	6'-12'
LG	MP 800 SR 360 DEG (LIME GREEN)	6'-12'
CR	MPCORNER (TURQUOISE)	8'-15'

IRRIGATION VALVE LEGEND

A-H — CONTROLLER & STATION NO.
2" — VALVE SIZE
XX.X — STATION GPM

NOTES:
1. LOCATION OF BACKFLOW DEVICE AND ENCLOSURE MUST BE APPROVED BY LADWP.
2. ALL VALVES TO BE INSTALLED IN CONCRETE VALVE BOXES ("BROOKS 3-HL") WITH LOCKING STEEL COVERS.
3. ALL END RUNS OF LATERAL PIPE SHALL BE A MINIMUM OF 3/4" SIZE PIPE UNLESS NOTED OTHERWISE.
4. ALL IRRIGATION PIPING TO BE PURPLE NON-POTABLE TO ALLOW FOR FUTURE CONNECTION TO RECYCLED WATER SUPPLY.
5. LOCATE WEATHER SENSOR NEAR CONTROLLER 'H' IN A LOCATION THAT WILL BE UNOBSTRUCTED BY FUTURE TREE CANOPY GROWTH.

REVISION DATES (DESIGN STAGE ONLY)

PLANS PREPARED BY:
TETRA TECH, INC.
707 WILSHIRE BLVD. 23RD FLR.
LOS ANGELES, CA 90017
PHONE: (213) 239-8866

CITY OF LOS ANGELES — DEPARTMENT OF PUBLIC WORKS — BUREAU OF ENGINEERING

VERT. CONTROL: BM 12-04070, 1929 (NGVD29) + 1985 ADJUSTMENT
HORIZ. CONTROL: GPS; PID AE 1704, EPOCH 1991.35

SHEET TITLE: IRRIGATION PLAN SHEET 6
PROJECT: SIXTH STREET PARK, ARTS AND RIVER CONNECTIVITY IMPROVEMENTS (PARC)
ADDRESS: SIXTH STREET OVER THE LOS ANGELES RIVER

GARY LEE MOORE, P.E., ENV SP — CITY ENGINEER
DESIGN GROUP
ENGINEER: JUSTIN SMITH — LIC. NO. C-85736 — DATE: 07/11/22
DESIGNED BY: HEATH PRAY
DRAWN BY: HEATH PRAY
CHECKED BY: NATE SCHREINER
APPROVED BY: JASON L. FUSSEL

THIS PLAN WAS ELECTRONICALLY SIGNED AND STAMPED
REGISTERED PROFESSIONAL ENGINEER — JUSTIN T. SMITH — No. 85736 — EXP. 9-30-22 — CIVIL — STATE OF CALIFORNIA

NO. | REVISIONS | DATE | BY

INDEX NO.
BUILDING NO.

ENGINEERING — CITY OF LOS ANGELES

WORK ORDER NO. E700235D
FILE NO. --
DRAWING NO. I-006
SHEET 159 OF 295 SHEETS

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IRRIGATION NOTES:

1. THE IRRIGATION SYSTEM DESIGN IS BASED ON A MINIMUM OPERATING PRESSURE OF 40 P.S.I. AND A MAXIMUM FLOW DEMAND OF XX G.P.M. THE CONTRACTOR SHALL VERIFY AVAILABLE WATER PRESSURE PRIOR TO CONSTRUCTION, AND REPORT ANY DIFFERENCE BETWEEN WATER PRESSURE AND AVAILABLE FLOW INDICATED ON THE DRAWINGS AND THE ACTUAL READING AT THE IRRIGATION POINT OF CONNECTION IMMEDIATELY TO THE PROJECT MANAGER.
2. BEFORE COMMENCING ANY EXCAVATION, THE CONTRACTOR SHALL OBTAIN AN UNDERGROUND SERVICE ALERT I.D. NUMBER BY CALLING 1-800-422-4133. PROVIDE TWO (2) WORKING DAYS AFTER THE NUMBER IS OBTAINED AND BEFORE THE EXCAVATION WORK IS STARTED SO THAT UTILITY OWNERS CAN BE NOTIFIED.
3. THE CONTRACTOR SHALL VERIFY THE LOCATIONS OF ALL EXISTING UTILITIES, STRUCTURES AND SERVICES BEFORE COMMENCING WORK. THE LOCATIONS OF ANY UTILITIES, STRUCTURES AND SERVICES SHOWN IN THESE PLANS ARE APPROXIMATE ONLY. ANY DISCREPANCIES BETWEEN THESE PLANS AND ACTUAL FIELD CONDITIONS SHALL BE REPORTED TO THE PROJECT MANAGER IMMEDIATELY. THE CONTRACTOR SHALL PROMPTLY REPAIR OR REPLACE ANY EXISTING OR NEWLY CONSTRUCTED UTILITIES OR SITE FEATURES DAMAGED BY HIS WORK AT HIS OWN EXPENSE.
4. THE CONTRACTOR SHALL NOT WILLFULLY INSTALL ANY EQUIPMENT AS SHOWN ON THE PLANS WHEN IT IS OBVIOUS IN THE FIELD THAT CONDITIONS OR OBSTRUCTIONS EXIST THAT WERE UNKNOWN AT THE TIME THESE PLANS WERE PREPARED. CONTRACTOR SHALL IMMEDIATELY NOTIFY THE PROJECT MANAGER OF ANY SUCH CONDITIONS PRIOR TO PERFORMING ANY AFFECTED WORK. IN THE EVENT THAT THIS NOTIFICATION IS NOT GIVEN, THE CONTRACTOR SHALL ASSUME FULL RESPONSIBILITY FOR ANY NECESSARY MODIFICATIONS TO COMPLETED WORK.
5. THIS DESIGN IS DIAGRAMMATIC. ALL PIPING, VALVES, ETC. SHOWN WITHIN PAVED AREAS ARE FOR CLARITY ONLY AND SHALL BE INSTALLED IN PLANTING AREAS. SET ALL VALVES AND QUICK COUPLERS ADJACENT TO WALKS OR PAVED SURFACES PER DETAILS. ALL IRRIGATION PRESSURE AND LATERAL LINES AND CONTROL WIRING THAT PASS UNDER PAVING SHALL BE SLEEVED PER IRRIGATION SPECIFICATIONS.
6. CONTRACTOR SHALL COORDINATE HIS WORK WITH OTHER CONTRACTORS FOR THE LOCATION AND INSTALLATION OF PIPE SLEEVES AND LATERALS UNDER PAVING IN A TIMELY MANNER. SEE TRENCHING DETAIL FOR SLEEVING REQUIREMENTS.
7. 2-WIRE CABLE CONDUIT SHALL GENERALLY FOLLOW MAINLINE WHERE POSSIBLE. CONTRACTOR SHALL SUBMIT PROPOSED LOCATION OF 2-WIRE CONDUIT RUNS AND PULL BOXES FOR APPROVAL BY PROJECT ENGINEER PRIOR TO INSTALLATION.
8. THE CONTRACTOR SHALL FLUSH AND PRESSURE TEST ALL MAINLINES PER LANDSCAPE CONSTRUCTION NOTES. CONTRACTOR SHALL FLUSH ALL LATERAL LINES AND IRRIGATION HEADS PER THE SPECIFICATIONS.
9. THE INTENT OF THESE IRRIGATION PLANS IS TO PROVIDE 100% COVERAGE TO ALL PLANTING AREAS. AS PART OF THE SCOPE OF WORK, CONTRACTOR SHALL PROVIDE ANY ADDITIONAL HEADS, SPECIAL NOZZLES, OR PATTERNS TO ACHIEVE PROPER COVERAGE WITH A MINIMUM OF OVERSPRAY AT NO ADDITIONAL COST TO THE CITY.
10. UPON COMPLETION OF INSTALLATION, CONTRACTOR SHALL CONDUCT A COVERAGE TEST PER LANDSCAPE CONSTRUCTION NOTES. CONTRACTOR SHALL NOTIFY PROJECT MANAGER TO REQUEST THE TEST, WHICH WILL BE SCHEDULED AT THE SOONEST DATE POSSIBLE PER AVAILABILITY OF RAP AND BOE STAFF.
11. CONTRACTOR SHALL ARRANGE FOR THE INSTALLATION OF WATER IRRIGATION METER. CONTRACTOR SHALL COORDINATE WITH PROJECT MANAGER TO ARRANGE FOR PAYMENT OF ALL RELATED PERMIT FEES. CITY WILL PROVIDE REIMBURSEMENT TO CONTRACTOR FOR THESE FEES.
12. REFER TO IRRIGATION SYSTEM SPECIFICATIONS FOR ADDITIONAL INFORMATION REGARDING THIS SECTION OF WORK.
13. THIS PLANNED IRRIGATION SYSTEM IS INTENDED FOR FUTURE RECLAIMED WATER USE. ENSURE IRRIGATION EQUIPMENT IS PROPERLY IDENTIFIED AS REQUIRED FOR RECLAIMED WATER USE.
14. ALL SPRAY HEADS AND ROTORS SHALL BE FITTED WITH NON-POTABLE INDICATING COVERS AT THE TIME WHEN THE IRRIGATION SYSTEM IS CONVERTED TO RECYCLED WATER. ALL VALVE BOXES SHALL SHALL BE FITTED WITH NON-POTABLE INDICATING LABELS AT THE TIME WHEN THE IRRIGATION SYSTEM IS CONVERTED TO RECYCLED WATER.
15. PLACE ALL POP-UP SPRINKLERS 2 FEET FROM ALL CURBS AND WALKS AND FLUSH WITH FINISH GRADE.
16. ADJUST NOZZLES TO MAXIMIZE COVERAGE AND MINIMIZE OVER SPRAY.
17. #12 TRACER WIRE TO BE SET OVER THE TOP OF ALL MAIN AND LATERAL LINES AND INTO VALVE BOXES PRIOR TO BACKFILLING TRENCHES.
18. PROVIDE NECESSARY SLEEVING UNDER ALL ROADS, DRIVES AND WALKWAYS WHETHER SPECIFICALLY INDICATED ON PLANS OR NOT. MARK LOCATION OF SLEEVES AND TAPE ENDS. EXTEND SLEEVE MIN. 6" BEYOND EDGE OF PAVING, COORDINATE SLEEVING WITH ALL UTILITIES ENCOUNTERED THROUGH THE SCOPE OF WORK.
19. LOCATE PIPE NEAR PERMANENT STRUCTURES WHERE POSSIBLE, I.E. ALONG EDGES OF SIDEWALKS. LEAVE PIPE SIZING FACE UP TO FACILITATE REPAIR.
20. CONTRACTOR SHALL PROVIDE AND INSTALL ELECTRICAL CONNECTION TO CONTROLLER AS REQUIRED. COMPLY WITH ALL APPLICABLE CODES.
21. PRESSURE REGULATING DEVICES ARE REQUIRED IF WATER PRESSURE IS BELOW OR EXCEEDS THE RECOMMENDED PRESSURE OF THE SPECIFIED IRRIGATION DEVICES.
22. CHECK VALVES OR ANTI-DRAIN VALVES ARE REQUIRED ON ALL SPRINKLER HEADS WHERE LOW POINT DRAINAGE COULD OCCUR.
23. OVERHEAD IRRIGATION SHALL NOT BE PERMITTED WITHIN 24-INCHES OF ANY NON-PERMEABLE SURFACE.
24. A DIAGRAM OF THE IRRIGATION PLAN SHOWING HYDROZONES SHALL BE KEPT WITH THE IRRIGATION CONTROLLER FOR SUBSEQUENT MANAGEMENT PURPOSES.
25. A CERTIFICATE OF COMPLETION SHALL BE FILLED OUT AND CERTIFIED BY EITHER THE SIGNER OF THE IRRIGATION PLANS, OR THE LICENSED LANDSCAPE CONTRACTOR FOR THE PROJECT.
26. AN IRRIGATION AUDIT REPORT SHALL BE COMPLETED AT THE TIME OF INSPECTION.

DESIGNER STATEMENT: "I HAVE COMPLIED WITH THE CRITERIA OF THE ORDINANCE AND APPLIED THEM FOR THE EFFICIENT USE OF WATER IN THE LANDSCAPE DESIGN PLANS."

CRITICAL ZONE - SYSTEM PRESSURE LOSS CALCULATION

ZONE A	
CRITICAL VALVE: A5 LONGEST DIST/ HIGHEST ELEV (9.17 GPM)	PSI
STARTING STATIC PRESSURE:	93 HI, 70 LOW
TOTAL PIPE PSI LOSS	1.53
FITTING LOSS:	0.153
MASTER VALVE LOSS 2":	0
GATE VALVE LOSS 2" (X2):	2.0
CONTROL VALVE LOSS 1":	0.7
BACKFLOW LOSS:	12.0
METER LOSS 1.5":	0
STATIC PRESSURE (LOSS DUE TO ELEV.):	6.062
TOTAL SYSTEM LOSS:	22.45
HEAD PRESSURE AVAILABLE:	67.55 HI, 43.55 LOW

ZONE B	
CRITICAL VALVE: B4 LONGEST DIST/ HIGHEST ELEV (10.69 GPM)	PSI
STARTING STATIC PRESSURE:	93 HI, 70 LOW
TOTAL PIPE PSI LOSS	1.37
FITTING LOSS:	0.137
MASTER VALVE LOSS 2":	0
GATE VALVE LOSS 2" (X2):	2.0
CONTROL VALVE LOSS 1":	0.8
BACKFLOW LOSS:	12.0
METER LOSS 1.5":	0
STATIC PRESSURE (LOSS DUE TO ELEV.):	5.196
TOTAL SYSTEM LOSS:	21.50
HEAD PRESSURE AVAILABLE:	68.50 HI, 44.50 LOW

ZONE C	
CRITICAL VALVE: C25 LONGEST DIST/ HIGHEST GPM (26.25 GPM)	PSI
STARTING STATIC PRESSURE:	93 HI, 70 LOW
TOTAL PIPE PSI LOSS	3.32
FITTING LOSS:	0.332
MASTER VALVE LOSS 2":	0
GATE VALVE LOSS 2" (X3):	3.0
CONTROL VALVE LOSS 1.5":	2.7
BACKFLOW LOSS:	12.0
METER LOSS 1.5":	0
STATIC PRESSURE (LOSS DUE TO ELEV.):	0.866
TOTAL SYSTEM LOSS:	22.21
HEAD PRESSURE AVAILABLE:	67.79 HI, 43.79 LOW

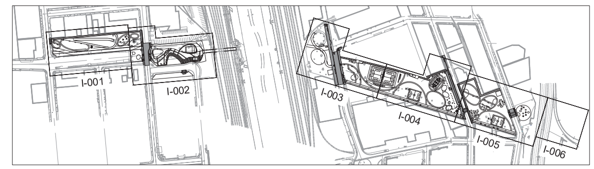
ZONE D	
CRITICAL VALVE: D23 LONGEST DIST/ HIGHEST GPM (11.69 GPM)	PSI
STARTING STATIC PRESSURE:	93 HI, 70 LOW
TOTAL PIPE PSI LOSS	3.65
FITTING LOSS:	0.365
MASTER VALVE LOSS 2":	0
GATE VALVE LOSS 2" (X3):	3.0
CONTROL VALVE LOSS 1":	0.9
BACKFLOW LOSS:	12.0
METER LOSS 1.5":	0.6
STATIC PRESSURE (LOSS DUE TO ELEV.):	3.464
TOTAL SYSTEM LOSS:	23.97
HEAD PRESSURE AVAILABLE:	66.03 HI, 42.03 LOW

ZONE E	
CRITICAL VALVE: E7 LONGEST DIST, HIGHEST GPM (17.79 GPM)	PSI
STARTING STATIC PRESSURE:	90 HI, 66 LOW
TOTAL PIPE PSI LOSS	4.03
FITTING LOSS:	0.403
MASTER VALVE LOSS 2":	0
GATE VALVE LOSS 2" (X3):	3.0
CONTROL VALVE LOSS 1":	1.7
BACKFLOW LOSS:	12.0
METER LOSS 1.5"	0.6
STATIC PRESSURE (ADD DUE TO ELEV.):	0.433
TOTAL SYSTEM LOSS:	22.16
HEAD PRESSURE AVAILABLE:	67.84 HI, 43.84 LOW

ZONE F	
CRITICAL VALVE: F5 HIGHEST GPM / HIGHEST ELEV (33.3 GPM)	PSI
STARTING STATIC PRESSURE:	90 HI, 66 LOW
TOTAL PIPE PSI LOSS	4.02
FITTING LOSS:	0.402
MASTER VALVE LOSS 2":	0
GATE VALVE LOSS 2" (X3):	3.0
CONTROL VALVE LOSS 1.5":	2.54
BACKFLOW LOSS:	12.0
METER LOSS 1.5":	1.2
STATIC PRESSURE (LOSS DUE TO ELEV.):	2.598
TOTAL SYSTEM LOSS:	25.76
HEAD PRESSURE AVAILABLE:	64.24 HI, 40.24 LOW

ZONE G	
CRITICAL VALVE: G14 LONGEST DIST/ HIGHEST GPM (23.0 GPM)	PSI
STARTING STATIC PRESSURE:	90 HI, 66 LOW
TOTAL PIPE PSI LOSS	3.625
FITTING LOSS:	0.3625
MASTER VALVE LOSS 2":	2.97
GATE VALVE LOSS 2" (X3):	3.0
CONTROL VALVE LOSS 1.5":	2.48
BACKFLOW LOSS:	12.0
METER LOSS 1.5":	1.1
STATIC PRESSURE (LOSS DUE TO ELEV.):	0
TOTAL SYSTEM LOSS:	25.53
HEAD PRESSURE AVAILABLE:	64.46 HI, 40.46 LOW

ZONE H	
CRITICAL VALVE: H2 LONGEST DIST (22.5 GPM)	PSI
STARTING STATIC PRESSURE:	72 HI, 42 LOW
TOTAL PIPE PSI LOSS	4.74
FITTING LOSS:	0.474
MASTER VALVE LOSS 2":	0
GATE VALVE LOSS 2" (X2):	2.0
CONTROL VALVE LOSS 1.5":	2.45
BACKFLOW LOSS:	12.0
METER LOSS 1.5":	1.1
STATIC PRESSURE (ADD PSI DUE TO ELEV.DIFFERENCE 18 FT):	(7.79)
TOTAL SYSTEM LOSS:	14.97
HEAD PRESSURE AVAILABLE:	57.03 HI, 29.94 LOW



KEY MAP
SCALE: 1"=400'

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PLANS PREPARED BY:

TETRA TECH, INC.
707 WILSHIRE BLVD. 23RD FLR.
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PHONE: (213) 239-8866

CITY OF LOS ANGELES — DEPARTMENT OF PUBLIC WORKS — BUREAU OF ENGINEERING

VERT. CONTROL: BM 12-04070, 1929 (NGVD29) • 1985 ADJUSTMENT
HORIZ. CONTROL: GPS; PID AE 1704, EPOCH 1991.35

SHEET TITLE: IRRIGATION NOTES

PROJECT: SIXTH STREET PARK, ARTS AND RIVER CONNECTIVITY IMPROVEMENTS (PARC)
ADDRESS: SIXTH STREET OVER THE LOS ANGELES RIVER

GARY LEE MOORE, P.E., ENV SP — CITY ENGINEER
DESIGN GROUP
ENGINEER: JUSTIN SMITH — LIC. NO. C-85736 — DATE: 07/11/22
DESIGNED BY: HEATH PRAY
DRAWN BY: HEATH PRAY
CHECKED BY: NATE SCHREINER
APPROVED BY: JASON L. FUSSEL

• THIS PLAN WAS ELECTRONICALLY SIGNED AND STAMPED •

REGISTERED PROFESSIONAL ENGINEER — JUSTIN T. SMITH — No. 85736 — EXP. 9-30-22 — CIVIL — STATE OF CALIFORNIA

NO.	REVISIONS:	DATE:	BY:

INDEX NO.

BUILDING NO.

ENGINEERING — CITY OF LOS ANGELES

WORK ORDER NO. E700235D
FILE NO. --
DRAWING NO. I-007
SHEET 160 OF 295 SHEETS

REVISION DATES (DESIGN STAGE ONLY)

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BID SET - NOT FOR CONSTRUCTION

ESTIMATED TOTAL WATER USE

CITY: LOS ANGELES, 50.10 Eto (INCHES/YR)

IRRIGATION EFFICIENCY DEFAULT VALUE FOR OVERHEAD 0.75 AND DRIP 0.81

PLANT WATER USE TYPE	PLANT FACTOR
VERY LOW	0-0.1
LOW	0.2-0.3
MEDIUM	0.4-0.6
HIGH	0.7-1.0
SLA	1.0

HYDROZONE AREA - A

EQUATION: ETWU=Eto x 0.62 x [((PF x HA)/IE) + SLA]
EQUATION: MAWA=(Eto) x (0.62) x [(0.45 x LA) + (1.0-0.45) x SLA]
OVERHEAD: 8,673 SQFT
DRIP: 564 SQFT
TOTAL LANDSCAPE AREA: 9,237 SQFT

HYDROZONE	IRRIGATION METHOD	PLANT WATER USE	PLANT FACTOR (PF)	HYDROZONE AREA (HA) FT2 WITHOUT SLA	HYDROZONE EFFICIENCY (IE)	(PF x HA (FT2))/IE
ZONE 1	OVERHEAD SPRAY	LOW	0.25	8,673	0.75	2,891
ZONE 2	DRIP	LOW	0.25	199	0.81	61
ZONE 3	DRIP	LOW	0.25	365	0.81	113
						3,064

RESULTS

MAWA=	129,106 GALLONS		ETWU=	95,201 GALLONS
	17,259 CUBIC FEET			12,727 CUBIC FEET
	173 HCF			127.27 HCF
	0.39 ACRE FEET			0.29 ACRE FEET
	0.13 MILLIONS OF GALLONS			0.10 MILLIONS OF GALLONS

HYDROZONE AREA - B

EQUATION: ETWU=Eto x 0.62 x [((PF x HA)/IE) + SLA]
EQUATION: MAWA=(Eto) x (0.62) x [(0.45 x LA) + (1.0-0.45) x SLA]
OVERHEAD: 10,638 SQFT
DRIP: 72 SQFT
TOTAL LANDSCAPE AREA: 10,710 SQFT

HYDROZONE	IRRIGATION METHOD	PLANT WATER USE	PLANT FACTOR (PF)	HYDROZONE AREA (HA) FT2 WITHOUT SLA	HYDROZONE EFFICIENCY (IE)	(PF x HA (FT2))/IE
ZONE 1	OVERHEAD SPRAY	LOW	0.25	10,638	0.75	3,546
ZONE 2	DRIP	LOW	0.25	72	0.81	22
						3,568

RESULTS

MAWA=	149,694 GALLONS		ETWU=	110,829 GALLONS
	20,011 CUBIC FEET			14,816 CUBIC FEET
	200 HCF			148.16 HCF
	0.46 ACRE FEET			0.34 ACRE FEET
	0.15 MILLIONS OF GALLONS			0.11 MILLIONS OF GALLONS

HYDROZONE AREA - C

EQUATION: ETWU=Eto x 0.62 x [((PF x HA)/IE) + SLA]
EQUATION: MAWA=(Eto) x (0.62) x [(0.45 x LA) + (1.0-0.45) x SLA]
OVERHEAD: 31,922 SQFT
DRIP: 3,447 SQFT
TOTAL LANDSCAPE AREA: 35,369 SQFT

HYDROZONE	IRRIGATION METHOD	PLANT WATER USE	PLANT FACTOR (PF)	HYDROZONE AREA (HA) FT2 WITHOUT SLA	HYDROZONE EFFICIENCY (IE)	(PF x HA (FT2))/IE
ZONE 1	OVERHEAD SPRAY	LOW	0.25	5,305	0.75	1,768
ZONE 2	OVERHEAD SPRAY	LOW	0.25	4,940	0.75	1,647
ZONE 3	OVERHEAD SPRAY	LOW	0.25	2,310	0.75	770
ZONE 4	OVERHEAD SPRAY	LOW	0.25	2,312	0.75	771
ZONE 5	OVERHEAD SPRAY	LOW	0.25	793	0.75	264
ZONE 6	DRIP	LOW	0.25	525	0.81	162
ZONE 7	DRIP	LOW	0.25	144	0.81	44
ZONE 8	DRIP	LOW	0.25	126	0.81	39
ZONE 9	DRIP	LOW	0.25	1,345	0.81	415
ZONE 10	DRIP	LOW	0.25	563	0.81	174
ZONE 11	DRIP	MEDIUM	0.40	27	0.81	13
ZONE 12	DRIP	LOW	0.25	81	0.81	25
ZONE 13	DRIP	LOW	0.25	636	0.81	196
ZONE 14	OVERHEAD SPRAY	MEDIUM	0.40	16,262	0.75	8,673
						14,962

RESULTS

MAWA=	494,353 GALLONS		ETWU=	464,718 GALLONS
	66,086 CUBIC FEET			62,124 CUBIC FEET
	661 HCF			621.24 HCF
	1.51 ACRE FEET			1.43 ACRE FEET
	0.49 MILLIONS OF GALLONS			0.46 MILLIONS OF GALLONS

HYDROZONE AREA - D

EQUATION: ETWU=Eto x 0.62 x [((PF x HA)/IE) + SLA]
EQUATION: MAWA=(Eto) x (0.62) x [(0.45 x LA) + (1.0-0.45) x SLA]
OVERHEAD: 32,953 SQFT
DRIP: 3,678 SQFT
TOTAL LANDSCAPE AREA: 36,631 SQFT

HYDROZONE	IRRIGATION METHOD	PLANT WATER USE	PLANT FACTOR (PF)	HYDROZONE AREA (HA) FT2 WITHOUT SLA	HYDROZONE EFFICIENCY (IE)	(PF x HA (FT2))/IE
ZONE 1	OVERHEAD SPRAY	LOW	0.25	5,855	0.75	1,952
ZONE 2	OVERHEAD SPRAY	LOW	0.25	3,374	0.75	1,125
ZONE 3	OVERHEAD SPRAY	LOW	0.25	1,266	0.75	422
ZONE 4	DRIP	LOW	0.25	108	0.81	33
ZONE 5	DRIP	LOW	0.25	54	0.81	17
ZONE 6	DRIP	LOW	0.25	72	0.81	22
ZONE 7	DRIP	LOW	0.25	414	0.81	128
ZONE 8	DRIP	LOW	0.25	162	0.81	50
ZONE 9	OVERHEAD SPRAY	MEDIUM	0.40	2,738	0.75	1,460
ZONE 10	DRIP	LOW	0.25	333	0.81	103
ZONE 11	DRIP	MEDIUM	0.40	72	0.81	36
ZONE 12	DRIP	MEDIUM	0.40	136	0.81	67
ZONE 13	DRIP	LOW	0.25	221	0.81	68
ZONE 14	DRIP	LOW	0.25	108	0.81	33
ZONE 15	DRIP	LOW	0.25	217	0.81	67
ZONE 16	DRIP	LOW	0.25	1,781	0.81	550
ZONE 17	OVERHEAD SPRAY	MEDIUM	0.40	19,720	0.75	10,517
						16,650

RESULTS

MAWA=	511,991 GALLONS		ETWU=	517,138 GALLONS
	68,444 CUBIC FEET			69,132 CUBIC FEET
	684 HCF			691.32 HCF
	1.57 ACRE FEET			1.59 ACRE FEET
	0.51 MILLIONS OF GALLONS			0.52 MILLIONS OF GALLONS

HYDROZONE AREA - E

EQUATION: ETWU=Eto x 0.62 x [((PF x HA)/IE) + SLA]
EQUATION: MAWA=(Eto) x (0.62) x [(0.45 x LA) + (1.0-0.45) x SLA]
OVERHEAD: 29,629 SQFT
DRIP: 613 SQFT
TOTAL LANDSCAPE AREA: 30,242 SQFT

HYDROZONE	IRRIGATION METHOD	PLANT WATER USE	PLANT FACTOR (PF)	HYDROZONE AREA (HA) FT2 WITHOUT SLA	HYDROZONE EFFICIENCY (IE)	(PF x HA (FT2))/IE
ZONE 1	OVERHEAD SPRAY	LOW	0.25	4,898	0.75	1,633
ZONE 2	OVERHEAD SPRAY	LOW	0.25	5,192	0.75	1,731
ZONE 3	OVERHEAD SPRAY	LOW	0.25	19,539	0.75	6,513
ZONE 4	DRIP	LOW	0.25	54	0.81	17
ZONE 5	DRIP	LOW	0.25	126	0.81	39
ZONE 6	DRIP	LOW	0.25	126	0.81	39
ZONE 7	DRIP	LOW	0.25	72	0.81	22
ZONE 8	DRIP	LOW	0.25	235	0.81	73
						10,067

RESULTS

MAWA=	422,692 GALLONS		ETWU=	312,635 GALLONS
	56,506 CUBIC FEET			41,793 CUBIC FEET
	565 HCF			418 HCF
	1.29 ACRE FEET			0.96 ACRE FEET
	0.42 MILLIONS OF GALLONS			0.31 MILLIONS OF GALLONS

HYDROZONE AREA - F

EQUATION: ETWU=Eto x 0.62 x [((PF x HA)/IE) + SLA]
EQUATION: MAWA=(Eto) x (0.62) x [(0.45 x LA) + (1.0-0.45) x SLA]
OVERHEAD: 14,594 SQFT
DRIP: 144 SQFT
TOTAL LANDSCAPE AREA: 14,738 SQFT

HYDROZONE	IRRIGATION METHOD	PLANT WATER USE	PLANT FACTOR (PF)	HYDROZONE AREA (HA) FT2 WITHOUT SLA	HYDROZONE EFFICIENCY (IE)	(PF x HA (FT2))/IE
ZONE 1	OVERHEAD SPRAY	MEDIUM	0.40	7,836	0.75	4,179
ZONE 2	OVERHEAD SPRAY	MEDIUM	0.40	2,518	0.75	1,343
ZONE 3	OVERHEAD SPRAY	MEDIUM	0.40	4,240	0.75	2,261
ZONE 4	DRIP	LOW	0.25	90	0.81	28
ZONE 5	DRIP	LOW	0.25	54	0.81	17
						7,828

RESULTS

MAWA=	205,993 GALLONS		ETWU=	243,135 GALLONS
	27,537 CUBIC FEET			32,503 CUBIC FEET
	275 HCF			325 HCF
	0.63 ACRE FEET			0.75 ACRE FEET
	0.20 MILLIONS OF GALLONS			0.24 MILLIONS OF GALLONS

HYDROZONE AREA - G

EQUATION: ETWU=Eto x 0.62 x [((PF x HA)/IE) + SLA]
EQUATION: MAWA=(Eto) x (0.62) x [(0.45 x LA) + (1.0-0.45) x SLA]
OVERHEAD: 12,016 SQFT
DRIP: 12,048 SQFT
TOTAL LANDSCAPE AREA: 24,064 SQFT

HYDROZONE	IRRIGATION METHOD	PLANT WATER USE	PLANT FACTOR (PF)	HYDROZONE AREA (HA) FT2 WITHOUT SLA	HYDROZONE EFFICIENCY (IE)	(PF x HA (FT2))/IE
ZONE 1	OVERHEAD SPRAY	LOW	0.25	377	0.75	126
ZONE 2	OVERHEAD SPRAY	LOW	0.25	1,105	0.75	368
ZONE 3	OVERHEAD SPRAY	LOW	0.25	4,254	0.75	1,418
ZONE 4	OVERHEAD SPRAY	LOW	0.25	6,280	0.75	2,093
ZONE 5	DRIP	LOW	0.25	1,486	0.81	459
ZONE 6	DRIP	LOW	0.25	568	0.81	175
ZONE 7	DRIP	MEDIUM	0.40	144	0.81	71
ZONE 8	DRIP	LOW	0.25	180	0.81	56
ZONE 9	DRIP	LOW	[illegible]	253	0.81	78
ZONE 10	DRIP	LOW	0.25	789	0.81	244
ZONE 11	DRIP	MEDIUM	[illegible]	8,628	0.81	5,326
						10,413

RESULTS

MAWA=	336,343 GALLONS		ETWU=	323,443 GALLONS
	44,963 CUBIC FEET			43,238 CUBIC FEET
	450 HCF			432.38 HCF
	1.03 ACRE FEET			0.99 ACRE FEET
	0.34 MILLIONS OF GALLONS			0.32 MILLIONS OF GALLONS

HYDROZONE AREA - H

EQUATION: ETWU=Eto x 0.62 x [((PF x HA)/IE) + SLA]
EQUATION: MAWA=(Eto) x (0.62) x [(0.45 x LA) + (1.0-0.45) x SLA]
OVERHEAD: 0 SQFT
DRIP: 920 SQFT
TOTAL LANDSCAPE AREA: 920 SQFT

HYDROZONE	IRRIGATION METHOD	PLANT WATER USE	PLANT FACTOR (PF)	HYDROZONE AREA (HA) FT2 WITHOUT SLA	HYDROZONE EFFICIENCY (IE)	(PF x HA (FT2))/IE
ZONE 1	DRIP	LOW	0.25	514	0.81	159
ZONE 2	DRIP	MEDIUM	0.40	406	0.81	200
						359

RESULTS

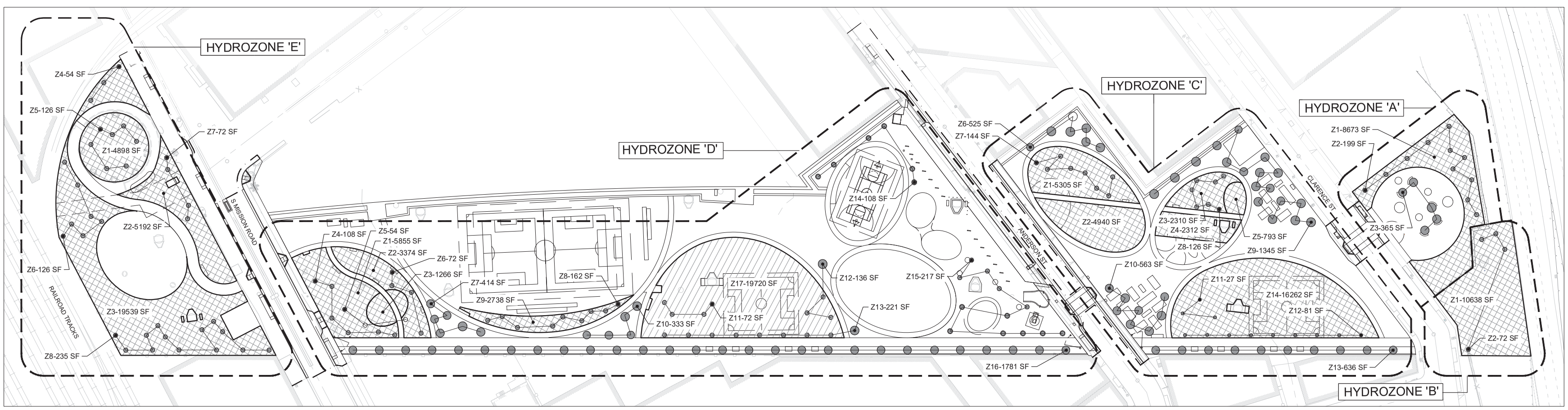
MAWA=	12,859 GALLONS		ETWU=	11,155 GALLONS
	[illegible] CUBIC FEET			1,491 CUBIC FEET
	17 HCF			14.91 HCF
	0.039 ACRE FEET			0.034 ACRE FEET
	0.01 MILLIONS OF GALLONS			0.01 MILLIONS OF GALLONS

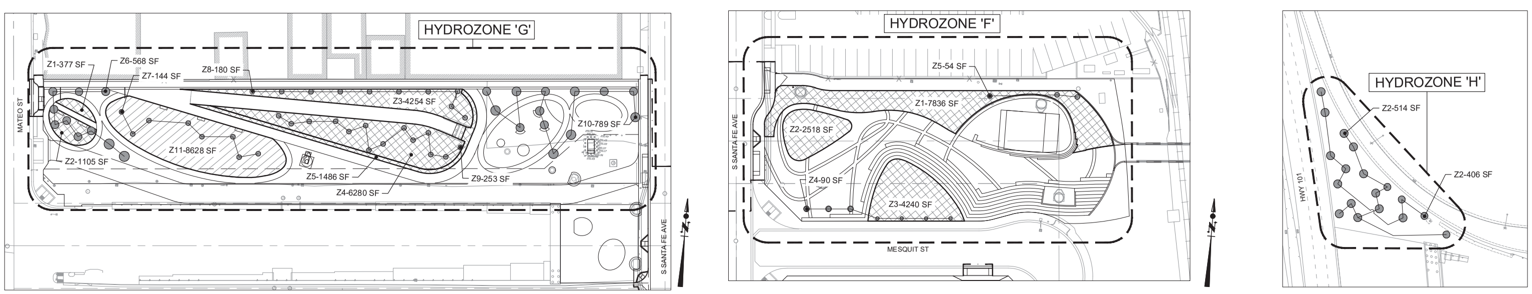
ESTIMATED TOTAL WATER USAGE SUMMARY:

HYDROZONE	MAWA (GAL.)	ETWU (GAL.)
A	129,106	95,201
B	149,694	110,829
C	494,353	464,718
D	511,991	517,138
E	422,692	312,635
F	205,993	243,135
G	336,343	323,443
H	12,859	11,155
TOTALS:	2,263,031	2,078,254

PROJECT TOTAL ETWU COMPLIES WITH MAWA

ETWU= ESTIMATED TOTAL WATER USE
MAWA= MAXIMUM TOTAL WATER USE





KEY MAPS
SCALE: 1"=60'

LEGEND

- EPIC IRRIGATION SYSTEM
- SPRAYHEAD IRRIGATION
- DRIP IRRIGATION

PLANS PREPARED BY:
TETRA TECH, INC.
707 WILSHIRE BLVD. 23RD FLR.
LOS ANGELES, CA 90017
PHONE: (213) 239-8866

CITY OF LOS ANGELES — DEPARTMENT OF PUBLIC WORKS — BUREAU OF ENGINEERING

ENGINEERING — CITY OF LOS ANGELES

GARY LEE MOORE, P.E., ENV SP — CITY ENGINEER
DESIGN GROUP
ENGINEER: JUSTIN SMITH — LIC. NO. C-85736 — DATE: 07/11/22
DESIGNED BY: HEATH PRAY
DRAWN BY: HEATH PRAY
CHECKED BY: NATE SCHREINER
APPROVED BY: JASON L. FUSSEL

REGISTERED PROFESSIONAL ENGINEER — JUSTIN T. SMITH — No. 85736 — EXP. 9-30-22 — CIVIL — STATE OF CALIFORNIA

THIS PLAN WAS ELECTRONICALLY SIGNED AND STAMPED

NO. | REVISIONS | DATE | BY

BUILDING NO.

INDEX NO.

VERT. CONTROL: BM 12-04070, 1929 (NGVD29) - 1985 ADJUSTMENT
HORIZ. CONTROL: GPS, PID AE 1704, EPOCH 1991.35

SHEET TITLE: IRRIGATION WATER ALLOWANCE
PROJECT: SIXTH STREET PARK, ARTS AND RIVER CONNECTIVITY IMPROVEMENTS (PARC)
ADDRESS: SIXTH STREET OVER THE LOS ANGELES RIVER

WORK ORDER NO. E700235D
FILE NO. --
DRAWING NO. I-008
SHEET 161 OF 295 SHEETS

REVISION DATES (DESIGN STAGE ONLY)

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Sheet Version 3.0

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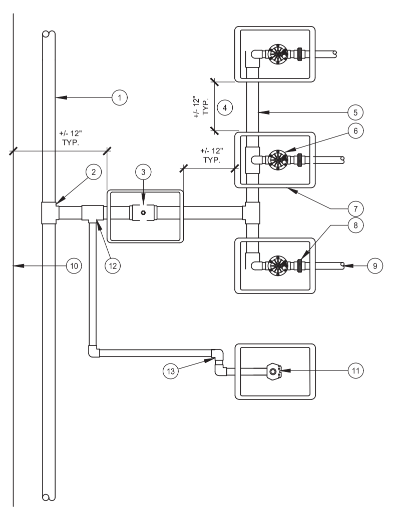
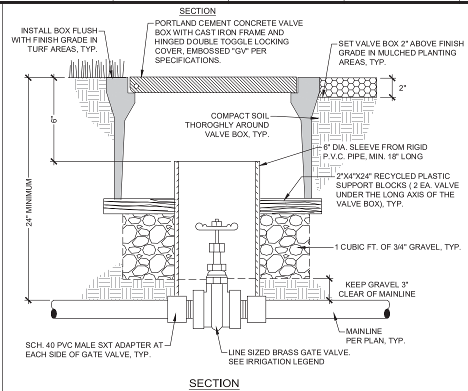


LEGEND
1. IRRIGATION MAINLINE
2. MAINLINE TEE FITTING, MAINLINE x MANIFOLD SIZE
3. LINE SIZE MANIFOLD ISOLATION VALVE. REFER TO LEGEND FOR TYPE.
4. ALL VALVE BOXES TO HAVE A MINIMUM 12" SEPARATION BETWEEN BOXES
5. IRRIGATION MANIFOLD "SUB-MAINLINE" PIPE. SIZE TO MATCH MAINLINE, TYP.
6. REMOTE CONTROL VALVE
7. RECTANGULAR SPECIFICATION GRADE CONCRETE VALVE BOX WITH CAST IRON FRAME AND HINGED DOUBLE TOGGLE LOCKING COVER. REFER TO LEGEND FOR TYPE
8. PVC SCH 80 UNION. ONE OR TWO REQUIRED. SEE RCV INSTALLATION DETAILS
9. LATERAL LINE TO SPRINKLERS
10. SIDEWALK / HARDSCAPE EDGE, INSTALL BOXES 12"-18" FROM EDGE
11. QUICK COUPLER VALVE
12. MAINLINE TEE FITTING, MAINLINE x 1" SIZE
13. QUICK COUPLER SWING JOINT

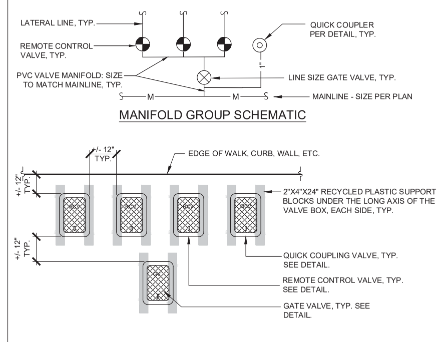
I1	VALVE MANIFOLD ASSEMBLY	
N.T.S.	REFERENCE SHEET I-001 THRU I-006	RP DETAIL 135



NOTE: FOR 3" GATE VALVES AND LARGER REFER TO RP DETAIL L1101

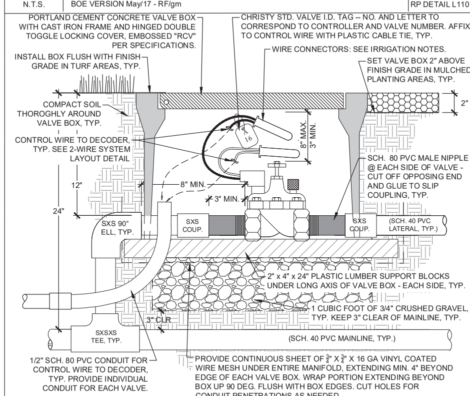
I2	2"-2.5" MAINLINE ISOLATION VALVE/ GATE VALVE INSTALL DETAIL	
N.T.S.	BOE VERSION May/17 - RF/gm	RP DETAIL L1101

I3	NOT USED
N.T.S.	



NOTES:
1. ALL VALVES SHALL BE INSTALLED IN A MANIFOLD GROUP SIMILAR TO THAT SHOWN IN ABOVE SCHEMATIC. SEE PLANS FOR NUMBER OF RCV/QCV FOR EACH MANIFOLD, TYP.
2. ALL BOXES SHALL BE SQUARE TO ONE ANOTHER AND TO THE EDGES OF ADJACENT FIXED OBJECTS WHERE PRESENT.

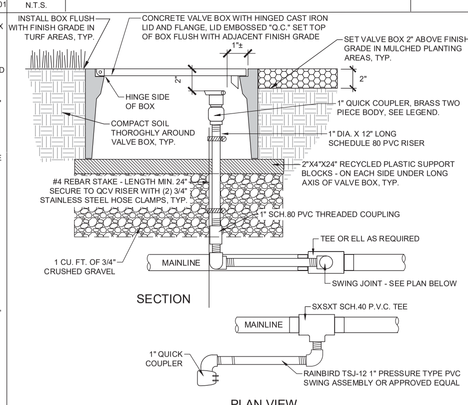
I4	VALVE BOX PLACEMENT	
N.T.S.	BOE_VERSION_FEB/18	RP DETAIL 1410



NOTES: 1. SEE APPLICABLE DETAILS FOR 2-WIRE DECODER AND CABLE INSTALLATION

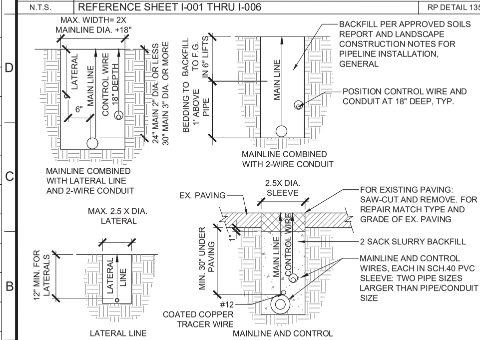
1/15/20 RWF

I5	RCV INSTALLATION DETAIL, 2-WIRE SYSTEM	
N.T.S.	REFERENCE SHEET I-001 THRU I-006	RP DETAIL 1402



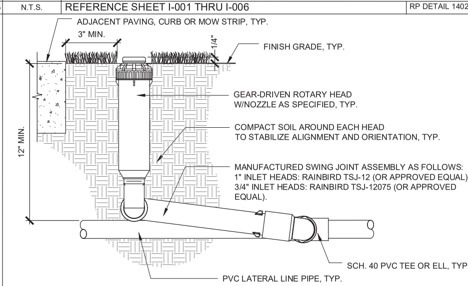
I6	QUICK COUPLING VALVE INSTALLATION DETAIL	
N.T.S.	REFERENCE SHEET I-002 THRU I-006	RP DETAIL L1200

I7	NOT USED
N.T.S.	



NOTE:
1. PIPE AND CONTROL WIRE CROSSING UNDER PAVING OR WALKWAY OVER 8' WIDE SHALL BE SLEEVED AS INDICATED ABOVE.
2. PIPE BEDDING AND BACKFILL SHALL BE PER APPROVED SOILS REPORT AND LANDSCAPE CONSTRUCTION NOTES, PIPELINE INSTALLATION GENERAL.
3. PROVIDE #12 COATED COPPER TRACER WIRE FOR ALL MAINLINE RUNS. PROVIDE 24" LENGTH COIL IN TERMINAL VALVE BOXES.

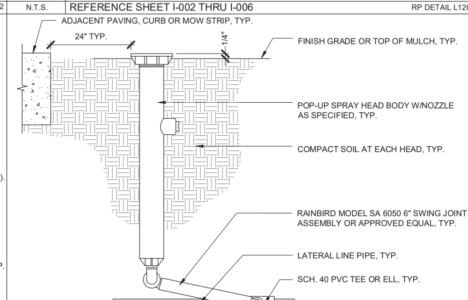
I8	IRRIGATION TRENCHING DETAIL - 2 WIRE	
N.T.S.	BOE VERSION 02/08/18	RP DETAIL 1350



NOTES:
1. PLACE ALL HEADS 1/4" ABOVE FINISH GRADE AT INITIAL INSTALLATION. SET HEADS 3" AWAY FROM WALKS, CURBS, OR MOW STRIPS.
2. INSTALL ALL HEADS PERPENDICULAR TO FINISH GRADE.
3. THOROUGHLY FLUSH ALL LATERAL LINE PIPES TO REMOVE DIRT AND DEBRIS BEFORE INSTALLATION OF NOZZLES.
4. ADJUST ALL HEADS TO PROPER ARC AND RADIUS AS NECESSARY TO ACHIEVE PROPER COVERAGE AND UNIFORMITY. IF PROPER COVERAGE AND UNIFORMITY IS NOT ACHIEVED WITH THE SPECIFIED NOZZLE, CONTRACTOR SHALL CHANGE NOZZLE AS NEEDED IN CONSULTATION WITH LANDSCAPE ARCHITECT UNTIL DESIRED PERFORMANCE IS ACHIEVED.

REVISED: 6/14/06 RWF/SLG

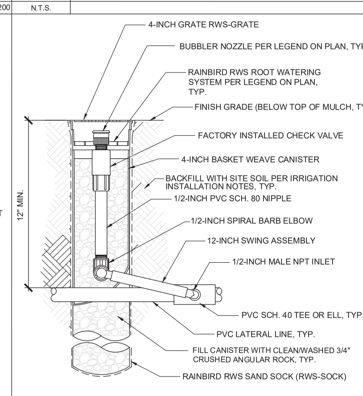
I9	GEAR-DRIVEN ROTOR HEAD INSTALLATION	
N.T.S.	REFERENCE SHEET I-005	RP DETAIL 162



NOTES:
1. PLACE ALL HEADS 1/4" ABOVE FINISH GRADE AT INITIAL INSTALLATION. SET HEADS 3" AWAY FROM WALKS, CURBS, OR MOW STRIPS.
2. INSTALL ALL HEADS PERPENDICULAR TO FINISH GRADE.
3. THOROUGHLY FLUSH ALL LATERAL LINE PIPES TO REMOVE DIRT AND DEBRIS BEFORE INSTALLATION OF NOZZLES.
4. ADJUST ALL HEADS TO PROPER ARC AND RADIUS AS NECESSARY TO ACHIEVE PROPER COVERAGE AND UNIFORMITY. IF PROPER COVERAGE AND UNIFORMITY IS NOT ACHIEVED WITH THE SPECIFIED NOZZLE, CONTRACTOR SHALL CHANGE NOZZLE AS NEEDED IN CONSULTATION WITH LANDSCAPE ARCHITECT UNTIL DESIRED PERFORMANCE IS ACHIEVED.

REVISED: 6/14/06 RWF/SLG

I10	POP-UP SPRAY HEAD INSTALLATION	
N.T.S.	REFERENCE SHEET I-001 THRU I-006	RP DETAIL 162



BOE VERSION Sep/07 - RF

I11	ROOT WATERING SYSTEM BUBBLER ASSY	
N.T.S.	REFERENCE SHEET I-001 THRU I-006	RAP DETAIL L1660

PLANS PREPARED BY:

TETRA TECH, INC.
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CITY OF LOS ANGELES — DEPARTMENT OF PUBLIC WORKS — BUREAU OF ENGINEERING

ENGINEERING
CITY OF LOS ANGELES

NO.	REVISIONS	DATE	BY

BUILDING NO.

INDEX NO.

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REGISTERED PROFESSIONAL ENGINEER — JUSTIN T. SMITH — No. 85736 — EXP. 9-30-22 — CIVIL — STATE OF CALIFORNIA

GARY LEE MOORE, P.E., ENV SP — CITY ENGINEER

DESIGN GROUP

ENGINEER:	JUSTIN SMITH	LIC. NO. C-85736	DATE: 07/11/22
DESIGNED BY:	HEATH PRAY		
DRAWN BY:	HEATH PRAY		
CHECKED BY:	NATE SCHREINER		
APPROVED BY:	JASON L. FUSSEL		

VERT. CONTROL: BM 12-04070, 1929 (NGVD29) - 1995 ADJUSTMENT
HORIZ. CONTROL: GPS; PID AE 1704, EPOCH 1991.35

SHEET TITLE:	IRRIGATION DETAILS SHEET 1
PROJECT:	SIXTH STREET PARK, ARTS AND RIVER CONNECTIVITY IMPROVEMENTS (PARC)
ADDRESS:	SIXTH STREET OVER THE LOS ANGELES RIVER

WORK ORDER NO. E700235D

FILE NO. --

DRAWING NO. I-009

SHEET 162 OF 295 SHEETS

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REVISION DATES (DESIGN STAGE ONLY)

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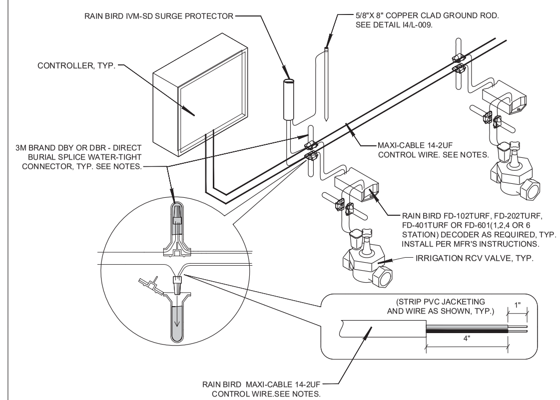
I1 NOT USED

I2 NOT USED

I3 2-WIRE IRRIGATION SYSTEM WIRING (RAIN BIRD OR EQUAL)

N.T.S. REFERENCE SHEET I-001 THRU I-006



WIRING NOTES:

1.) CONTROL WIRE SHALL BE RAIN BIRD MAXI-CABLE 14-2UF OR APPROVED EQUAL: POLYETHYLENE DOUBLE-JACKETED OR UF-B UL PVC DOUBLE- JACKETED TWO-CONDUCTOR SOLID CORE DESIGNED FOR DIRECT BURIAL WITH INSULATION 3/16 INCH (.0600) THICK, HIGH DENSITY, SUNLIGHT RESISTANT INCASED IN AN OUTER JACKET OF POLYETHYLENE OR PVC CONFORMING TO ICEA S-GL-402 OR NEMA WC5, HAVING A MINIMUM WALL THICKNESS OF .045 INCHES. (TWO-WIRE POLYETHYLENE "TWISTED" CABLE OR SINGLE STRAND 14-GAUGE PVC IRRIGATION WIRE DOES NOT CONFORM TO THESE SPECIFICATIONS AND WILL NOT BE ACCEPTED).

2.) ALL WIRE INSULATION SHALL BE INTACT AND FREE OF NICKS AND CUTS.

3.) ALL 2-WIRE CABLE SHALL BE INSTALLED IN 1" MIN. SCH. 80 PVC CONDUIT 24" MIN. BELOW GRADE WITH PULL BOXES @ 200' MAX.

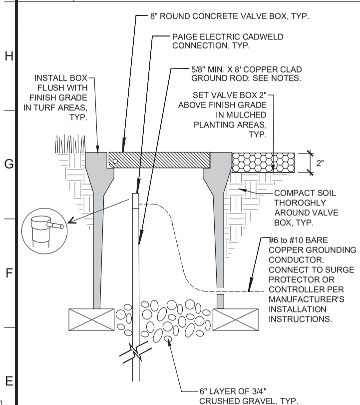
4.) ATTACHING DECODERS:

- TWIST WIRES TO PROVIDE A SOLID MECHANICAL CONNECTION BEFORE SECURING THE ATTACHMENT BY ADDING THE WIRE NUT.
- 3M BRAND DBY OR DBR DIRECT BURIAL SPLICE KIT OR APPROVED EQUAL (SURESPLICE, TRADEMARKED) GEL FILLED CONNECTORS (OR SIMILAR) SHALL BE USED ON ALL CONNECTIONS.
- GREASE FILLED WIRE NUTS WILL NOT BE ACCEPTED.
- TEST ALL CONNECTIONS BEFORE IMMERSING THE WIRE NUT IN THE GEL-FILLED CAP.
- ADHERE TO ALL LOCAL AND NATIONAL BUILDING AND ELECTRICAL CODES.
- CONTRACTOR SHALL GUARANTEE ALL WIRE CONNECTIONS TO BE ABSOLUTELY WATER TIGHT.

5.) ALL EQUIPMENT SHALL BE INSTALLED PER THE MANUFACTURER'S SPECIFICATIONS.

I4 2-WIRE SYSTEM GROUNDING ROD

N.T.S. REFERENCE SHEET I-001 THRU I-006



TWO-WIRE SYSTEM GROUNDING REQUIREMENTS:

SURGE PROTECTION USING PROPER GROUNDING RODS AND RAIN MASTER LIGHTNING ARRESTORS (TW-LA-1) IS REQUIRED FOR PROTECTION AGAINST SURGE DAMAGE DUE TO LIGHTNING OR OTHER ELECTRICAL SURGE EVENTS. CONFORMANCE TO THIS SURGE SUPPRESSION SPECIFICATION IS NECESSARY TO RETAIN WARRANTY PROTECTION UNDER RAIN MASTER'S WARRANTY TERMS.

THE INSTALLATION SHALL CONFORM TO MANUFACTURER'S INSTRUCTIONS, AND MUST MEET OR EXCEED THE AMERICAN SOCIETY OF IRRIGATION CONSULTANTS (ASIC) EARTH GROUNDING GUIDELINE 100-2002.

HTTP://WWW.ASIC.ORG/UPLOADS/ASSETS/011007_121320_ASIC_GROUNDING_GUIDELINES.DOC

GROUND RODS AS REFERRED TO IN THIS SPECIFICATION SHALL CONFORM TO THE FOLLOWING STANDARDS:

1.) ALL GROUNDING RODS SHALL BE BARE COPPER OF 5/8" DIAMETER OR GREATER, AND 8' LENGTH OR GREATER.

2.) A MEASURED RESISTANCE READING OF NO MORE THAN 25 OHMS IS NECESSARY AT EACH TW-LA-1 (LIGHTNING ARRESTOR). ASIC SPEC: SECTION 7.0 – MEASURING RESISTANCE, ITEM A.

GROUND RODS SHALL BE LOCATED AT A MINIMUM DISTANCE TO ASSURE THAT THE TWO-WIRE PATH IS OUTSIDE OF THE ELECTRODE SPHERE OF INFLUENCE FOR THE GROUNDING ROD: THE GROUND ROD MUST BE CONNECTED AT LEAST 8' AWAY FROM THE TWO-WIRE PATH, AT A RIGHT ANGLE TO THE TWO-WIRE PATH.

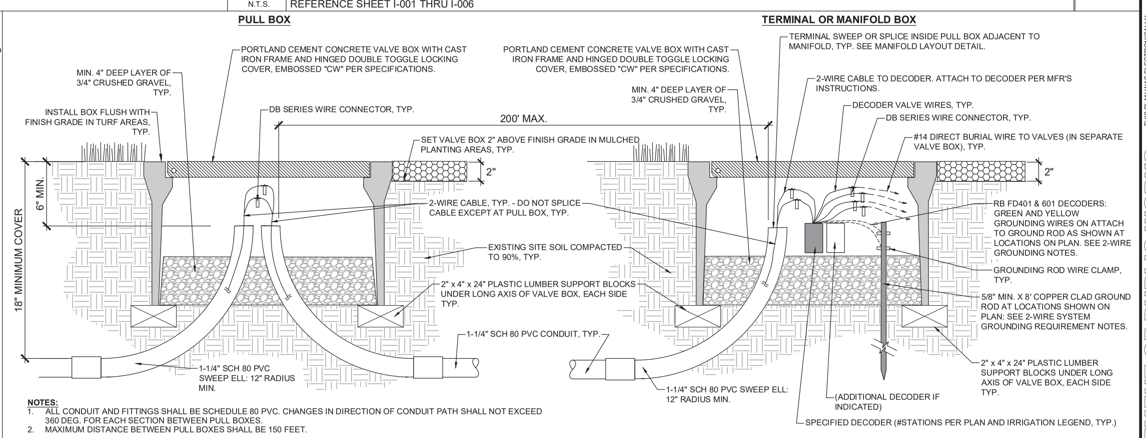
UNDER NO CIRCUMSTANCES SHOULD A GROUND ROD BE INSTALLED IN OR UNDER A VALVE BOX, METER BOX OR ELECTRICAL BOX.

CONNECTIONS TO GROUNDING RODS
ALL CONNECTIONS TO GROUND RODS SHALL CONFORM TO ASIC EARTH GROUNDING GUIDELINE 100-2002, AND SHALL CONSIST OF EITHER A CADWELD™ TYPE OR SCREW CLAMP TYPE OF CONNECTION. CADWELD OR EQUIVALENT CONNECTIONS ARE PREFERRED.

ANY WIRE EXTENSIONS REQUIRED TO CONNECT FROM A GROUND ROD TO A LIGHTNING ARRESTOR OR ENCLOSURE GROUND LUG SHALL BE BARE COPPER, AND SHALL NOT HAVE ANY SHARP BENDS OR KINKS. WIRE EXTENSIONS CONNECTED TO LIGHTNING ARRESTORS SHALL USE A CADWELD TYPE OR SCREW CLAMP TYPE CONNECTION WHERE THE BARE COPPER GROUND WIRE MEETS THE GREEN GROUNDING WIRE FROM THE LIGHTNING ARRESTOR.

I5 2-WIRE SYSTEM INSTALLATION AND GROUNDING

N.T.S. REFERENCE SHEET I-001 THRU I-006 — RP DETAIL L1430

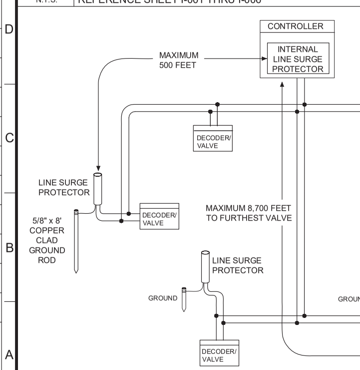


NOTES:

1. ALL CONDUIT AND FITTINGS SHALL BE SCHEDULE 80 PVC. CHANGES IN DIRECTION OF CONDUIT PATH SHALL NOT EXCEED 360 DEG. FOR EACH SECTION BETWEEN PULL BOXES.
2. MAXIMUM DISTANCE BETWEEN PULL BOXES SHALL BE 150 FEET.

I6 2-WIRE SYSTEM LAYOUT

N.T.S. REFERENCE SHEET I-001 THRU I-006 — RP DETAIL 1372



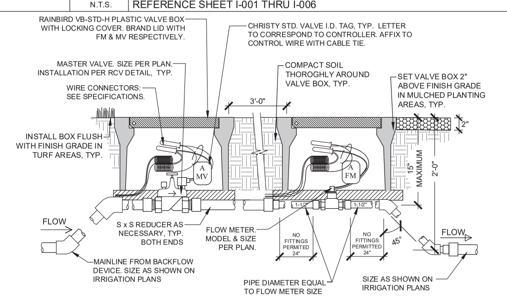
NOTES:

1. ALL TWO-WIRE COMPONENTS (WIRE, DECODERS, SURGE PROTECTORS, ETC.) SHALL BE PROVIDED BY RAINBIRD, 800-724-6247.
2. SEE DETAIL RELATED DETAILS FOR WIRING AND GROUNDING CONNECTIONS.

WIRE CONFIGURATION		
WIRE GAUGE	Total Wire Length (feet)	Max Distance from Decoder to Solenoid
MAXI-Cable 14-2UF	8,700	456
Maximum 500 feet between line surge protectors		

I7 FLOW METER AND MASTER VALVE

N.T.S. REFERENCE SHEET I-001 THRU I-006 — RP DETAIL L1510



NOTES:

1. CONNECT FLOW METER LEADS TO DESIGNATED CONTROLLER WITH A BLACK AND RED #14 UF WIRE.
2. CONNECT MASTER VALVE LEADS TO 2-WIRE DECODER PER DETAILS AND SPECIFICATIONS.
3. CONNECT FLOW METER TO SENSOR DECODER PER DETAILS AND SPECIFICATIONS.
4. ALL 2-WIRE CONNECTIONS SHALL BE MADE WITH A CONNECTOR PER SPECIFICATIONS. RUN WIRE ALONG MAINLINE OR PER DETAIL L1420 WHERE MAINLINE NOT AVAILABLE.

RAP VERSION 02-07-18 / RWF

REVISION DATES (DESIGN STAGE ONLY)

Sheet Version 3.0

PLANS PREPARED BY:

TETRA TECH, INC.
707 WILSHIRE BLVD, 23RD FLR.
LOS ANGELES, CA 90017
PHONE: (213) 239-8866

CITY OF LOS ANGELES — DEPARTMENT OF PUBLIC WORKS — BUREAU OF ENGINEERING

VERT. CONTROL: BM 12-04070, 1929 (NGVD29) - 1985 ADJUSTMENT
HORIZ. CONTROL: GPS; PID AE 1704, EPOCH 1991.35

SHEET TITLE: IRRIGATION DETAILS SHEET 2

PROJECT: SIXTH STREET PARK, ARTS AND RIVER CONNECTIVITY IMPROVEMENTS (PARC)

ADDRESS: SIXTH STREET OVER THE LOS ANGELES RIVER

GARY LEE MOORE, P.E., ENV SP — CITY ENGINEER

DESIGN GROUP

ENGINEER: JUSTIN SMITH — LIC. NO. C-85736 — DATE: 07/11/22
DESIGNED BY: HEATH PRAY
DRAWN BY: HEATH PRAY
CHECKED BY: NATE SCHREINER
APPROVED BY: JASON L. FUSSEL

THIS PLAN WAS ELECTRONICALLY SIGNED AND STAMPED

REGISTERED PROFESSIONAL ENGINEER — JUSTIN T. SMITH — No. 85736 — EXP. 9-30-22 — CIVIL — STATE OF CALIFORNIA

NO. | REVISIONS: | DATE: | BY:

INDEX NO.

BUILDING NO.

ENGINEERING — CITY OF LOS ANGELES

WORK ORDER NO. E700235D
FILE NO. --
DRAWING NO. **I-010**

SHEET 163 OF 295 SHEETS

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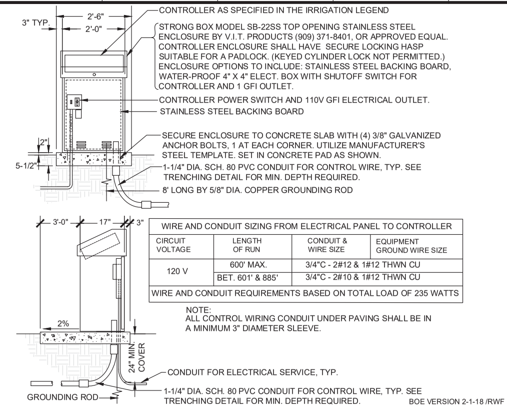
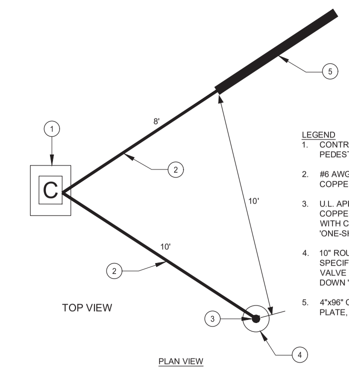


WIRE AND CONDUIT SIZING FROM ELECTRICAL PANEL TO CONTROLLER			
CIRCUIT VOLTAGE	LENGTH OF RUN	CONDUIT & WIRE SIZE	EQUIPMENT GROUND WIRE SIZE
120 V	600' MAX.	3/4"C - 2#12 & 1#12 THWN CU	
	BET. 601' & 885'	3/4"C - 2#10 & 1#12 THWN CU	
WIRE AND CONDUIT REQUIREMENTS BASED ON TOTAL LOAD OF 235 WATTS			

NOTE:
ALL CONTROL WIRING CONDUIT UNDER PAVING SHALL BE IN A MINIMUM 3" DIAMETER SLEEVE.

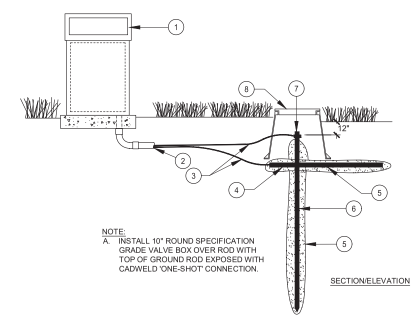
BOE VERSION 2-1-18 /RWF

I1 CONTROLLER AND ENCLOSURE
N.T.S. REFERENCE SHEET I-002 THRU I-006 RP DETAIL 1472



LEGEND
1. CONTROLLER ASSEMBLY PEDESTAL.
2. #6 AWG SOLID BARE COPPER WIRE.
3. U.L. APPROVED 5/8"x8' COPPER GROUND ROD WITH CADWELD 'ONE-SHOT' CONNECTION.
4. 10" ROUND SPECIFICATION GRADE VALVE BOX WITH BOLT DOWN "T" COVER.
5. 4"x96" COPPER GROUND PLATE, U.L. APPROVED.

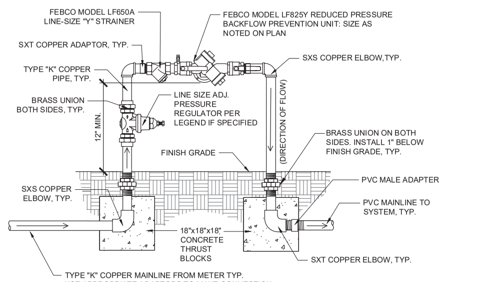
I2 CONTROLLER GROUNDING INSTALLATION
N.T.S. REFERENCE SHEET I-001 THRU I-006



NOTE:
A. INSTALL 10" ROUND SPECIFICATION GRADE VALVE BOX OVER ROD WITH TOP OF GROUND ROD EXPOSED WITH CADWELD 'ONE-SHOT' CONNECTION.

LEGEND
1. CONTROLLER ASSEMBLY PEDESTAL. REFER TO LEGEND FOR SPECIFICATION
2. PVC ELECTRICAL SWEEP ELL (1-½" OR LARGER)
3. #6 AWG SOLID BARE COPPER WIRE
4. U.L. APPROVED 4"x96" COPPER GROUND PLATE
5. GROUNDING ENHANCEMENT EARTH CONTACT MATERIAL. SEE NATIONAL ELECTRIC CODE FOR SPECIFICATION
6. 5/8"x8' COPPER CLAD GROUND ROD, U.L. APPROVED
7. CADWELD 'ONE-SHOT' CONNECTION
8. 10" ROUND SPECIFICATION GRADE VALVE BOX WITH BOLT DOWN "T" COVER

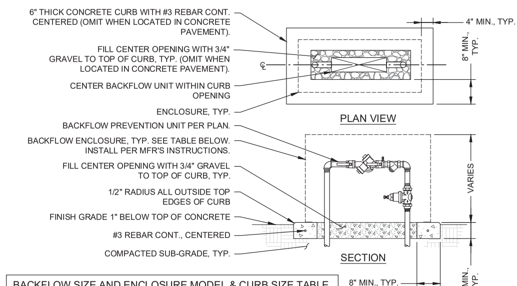
I3 CONTROLLER GROUNDING INSTALLATION
N.T.S. REFERENCE SHEET I-001 THRU I-006



NOTES:
1. ALL PIPE AND FITTINGS BETWEEN METER AND BACKFLOW DEVICE SHALL BE LINE SIZE TYPE K COPPER. SWEAT ALL COPPER FITTINGS FITTINGS WITH NON-LEAD SOLDER PER SECTION 308-5.2.4 OF THE S.S.P.W.C.
2. USE TEFLON TAPE ON ALL MALE THREADS; FOR PVC PIPE SOLVENT WELD JOINTS PER SECTION 306-1.2.9 OF THE SSPWC AND IRRIGATION CONSTRUCTION NOTES.
3. THE CONTRACTOR SHALL HAVE THE BACKFLOW PREVENTER TESTED BY A CERTIFIED TESTER. A "BACKFLOW PREVENTION DEVICE TESTING REPORT" SHALL BE SUBMITTED TO THE LOS ANGELES COUNTY HEALTH DEPT; A COPY OF THE REPORT SHALL BE GIVEN TO THE PROJECT MANAGER AT THE OPERATIONAL FINAL.
4. IF WATER PRESSURE IS TOO HIGH, GREATER THAN 90 PSI, INSTALL A LINE SIZE PRESSURE REGULATOR. (FOR 2" OR SMALLER AS SHOWN ON DETAIL - FOR 3" INSTALL IN GROUND BOX SEPARATELY)
5. SEE BACKFLOW ENCLOSURE DETAIL.

BOE VERSION 02/08/18 RWF

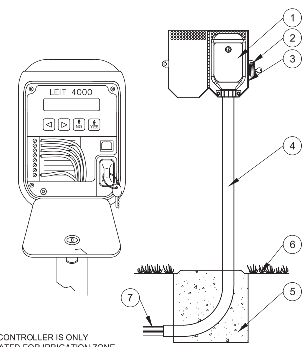
I4 BACKFLOW PREVENTER UNIT, 3/4" TO 3" SIZE
N.T.S. REFERENCE SHEET I-001 THRU I-006 RP DETAIL L1002



BACKFLOW SIZE AND ENCLOSURE MODEL & CURB SIZE TABLE ALL ENCLOSURES SHALL BE POWDER COATED DARK GREEN			
DEVICE SIZE:	STRONG BOX INC. (800) 729-1314	ENCLOSURE DIMEMSIONS (width x length)	LENGTH "L"
3/4" to 1"	SBBC-30CR	18" x 31.5"	40 INCHES
1-1/2" to 2"	SBBC-45CR	18" x 46.5"	55 INCHES
2-1/2" to 3"	SBBC-75CR	25.5" x 76.5"	85 INCHES

ENCLOSURE MOUNTING HARDWARE: REFER TO MANUFACTURER'S INSTALLATION INSTRUCTIONS BEFORE POURING CONC. CURB.

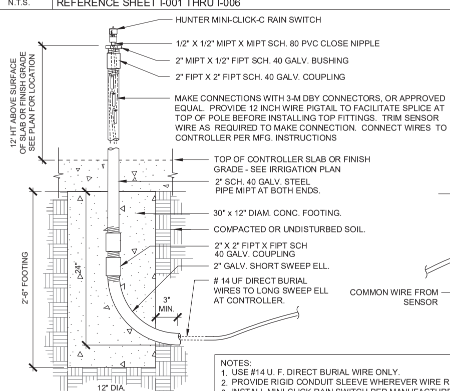
I5 BACKFLOW PREVENTER ENCLOSURE
N.T.S. REFERENCE SHEET I-001 THRU I-006

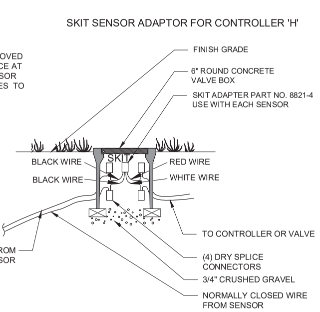


NOTES:
1. SOLAR CONTROLLER IS ONLY DESIGNATED FOR IRRIGATION ZONE "H". SEE SHEET I-006.
2. SEE DETAIL I7 THIS SHEET FOR RAIN SENSOR ASSEMBLY.

LEGEND
1. LEIT CONTROLLER MODEL LEIT 4004
2. HIGH SECURITY STAINLESS STEEL DISC-LOCK MODEL 30405
3. HEAVY -DUTY STAINLESS STEEL ENCLOSURE WITH LIGHT ACCESS THROUGH GRID ON TOP AND INTERNAL CLAMP TO SECURE COLUMN MOUNTING MODEL ENCL 4000
4. GALVANIZED STEEL MOUNTINGCOLUMN FOR LEIT 4000 AND 4000E I MODEL MCOL 4000 32" (81CM) SHORT II MODEL MCOL 4000L 48" (124 CM) LONG
5. 12"x18" (30x45CM) CONCRETE BASE USING 90LB. BAG OF CONCRETE
6. FINISH GRADE
7. DIRECT BURIAL CONTROL WIRES TO CONTROL VALVES/ (RAIN SENSOR IF NOTED ON PLANS)

I6 LEIT 4004 SOLAR CONTROLLER
N.T.S. REFERENCE SHEET I-005 & I-006





NOTES:
1. USE #14 U. F. DIRECT BURIAL WIRE ONLY.
2. PROVIDE RIGID CONDUIT SLEEVE WHEREVER WIRE RUNS UNDER PAVING.
3. INSTALL MINI-CLICK RAIN SWITCH PER MANUFACTURER'S INSTRUCTIONS.
4. INSTALL SKIT SENSOR ADAPTOR WITH RAIN SENSOR FOR CONTROLLER 'H' ONLY.

RAP VERSION 5-9-97 / JPH

I7 MINI CLIK RAIN SENSOR ASSEMBLY FOR CONTROLLERS 'G' & 'H'
N.T.S. REFERENCE SHEET I-001 & I-006 RP DETAIL L1460

REVISION DATES (DESIGN STAGE ONLY)

PLANS PREPARED BY:
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CITY OF LOS ANGELES — DEPARTMENT OF PUBLIC WORKS — BUREAU OF ENGINEERING

VERT. CONTROL: BM 12-04070, 1929 (NGVD29) • 1985 ADJUSTMENT
HORIZ. CONTROL: GPS; PID AE 1704, EPOCH 1991.35

SHEET TITLE: IRRIGATION DETAILS SHEET 3
PROJECT: SIXTH STREET PARK, ARTS AND RIVER CONNECTIVITY IMPROVEMENTS (PARC)
ADDRESS: SIXTH STREET OVER THE LOS ANGELES RIVER

GARY LEE MOORE, P.E., ENV SP — CITY ENGINEER
DESIGN GROUP
ENGINEER: JUSTIN SMITH LIC. NO. C-85736 DATE: 07/11/22
DESIGNED BY: HEATH PRAY
DRAWN BY: HEATH PRAY
CHECKED BY: NATE SCHREINER
APPROVED BY: JASON L. FUSSEL

• THIS PLAN WAS ELECTRONICALLY SIGNED AND STAMPED •

REGISTERED PROFESSIONAL ENGINEER — JUSTIN T. SMITH — No. 85736 — EXP. 9-30-22 — CIVIL — STATE OF CALIFORNIA

NO. REVISIONS: | DATE: | BY:

INDEX NO.
BUILDING NO.

ENGINEERING — CITY OF LOS ANGELES

WORK ORDER NO. E700235D
FILE NO. –
DRAWING NO. I-011
SHEET 164 OF 295 SHEETS

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Sheet Version 3.0

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ELECTRICAL SYMBOLS - PLANS

SYMBOL	SYMBOL DESCRIPTION
	DUPLEX RECEPTACLE (WP, GFCI AS INDICATED)
J	JUNCTION BOX
$3	SWITCH (3 = 3-WAY SWITCH, 4 = 4-WAY SWITCH, ETC.)
a	FLUORESCENT LUMINAIRE CONTROLLED BY SWITCH a
a	FLUORESCENT LUMINAIRE CONTROLLED BY SWITCH a W/ EMERGENCY BATTERY PACK
	EMERGENCY LIGHT
	WALL MOUNTED LUMINAIRE
	EXIT LIGHT
	POLE MOUNTED LUMINAIRE
A — LUMINAIRE TYPE 150 — LAMP WATTAGE	LUMINAIRE REFERENCE SEE LUMINAIRE SCHEDULE FOR DETAILS
P001	CONDUIT REFERENCE SEE CONDUIT SCHEDULE A = ANALOG SIGNAL C = CONTROL D = DATA LINK F = FIBER OPTIC P = POWER PS = PRIMARY SERVICE T = TELEPHONE SS = SECONDARY SERVICE
	UNDERGROUND DUCT BANK OR CONDUIT IN SLAB
	CONDUIT ROUTED ABOVE CEILINGS OR IN WALLS
	EXPOSED CONDUIT
——— G ———	GROUNDING CONDUCTOR MIN. 30" BELOW GRADE
A-3	HOMERUN TO PANEL "A", CIRCUIT 3
P0000	HOMERUN PER CONDUIT SCHEDULE
	CONDUIT STUBBED AND CAPPED
	CONDUIT BENDS TOWARD OBSERVER
	CONDUIT BENDS AWAY FROM OBSERVER
J	FLEXIBLE CONDUIT CONNECTION (FROM COUPLING/STUB-UP OR JBOX)
	PANELBOARD/SWITCHBOARD
	DISCONNECT SWITCH
	COMBINATION STARTER & DISCONNECT SWITCH
	HANDHOLE OR PULL BOX
DS	DUCT SMOKE DETECTOR
	SMOKE DETECTOR
F	FIRE ALARM MANUAL PULL STATION
F	FIRE ALARM STROBE
	TELEPHONE OUTLET
	DATA OUTLET
	CONDUIT SEAL
— F — F — F —	CONDUIT & WIRE FOR FIRE ALARM SYSTEM
— R — R — R —	CONDUIT & WIRE FOR ELECTRONIC KEY PAD TO PLC
KP	ELECTRONIC KEYPAD
FACP	FIRE ALARM CONTROL PANEL
	LOCAL CONTROL SWITCH
T	THERMOSTAT
	QUADPLEX
	THREE PHASE RECEPTACLE
	ISOLATED GROUND RECEPTACLE

ELECTRICAL SYMBOLS - SCHEMATIC DIAGRAMS

NORMALLY OPEN	NORMALLY CLOSED	SYMBOL DESCRIPTION
		CONTACT
		TIMED CONTACT, CONTACT ACTION REVERSES ON ENERGIZATION (ON DELAY)
		TIMED CONTACT, CONTACT ACTION REVERSES ON DE-ENERGIZATION (OFF DELAY)
		LEVEL SWITCH
		PRESSURE SWITCH
		TEMPERATURE SWITCH
		LIMIT SWITCH
		FLOW SWITCH
		PUSH BUTTON SINGLE CIRCUIT MOMENTARY CONTACT
HAND OFF AUTO XOO OXO OOX		SELECTOR SWITCH HOA: HAND-OFF-AUTO (HOA SHOWN IN HAND MODE) HO: HAND-OFF RO: REMOTE-OFF SEE SYMBOL NOTE 2.
O/L		MOTOR OVERLOAD DEVICE CONTACTS
R		PILOT LIGHT A= AMBER, G= GREEN, R= RED, W= WHITE
CR1 AR1		CONTROL RELAY
TD1		TIME DELAY RELAY
M		STARTER COIL
		SOLENOID OPERATED VALVE
ETM		ELAPSED TIME METER
		FUSE
		CONTROL POWER TRANSFORMER
		GROUND
		MOTOR SPACE HEATER

SYMBOL NOTES

1. THIS DRAWING CONTAINS INDUSTRY STANDARD SYMBOLS. NOT ALL SYMBOLS SHOWN ARE USED ON THIS PROJECT.
2. FOR HOA SWITCHES, "XOO" INDICATES THAT THE TOP CONTACT IS CLOSED WHEN THE SWITCH IS SET TO HAND MODE, AND ALL OTHER SWITCH CONTACTS ARE OPEN; "OXO" INDICATES THAT THE MIDDLE CONTACT IS CLOSED WHEN THE SWITCH IS SET TO OFF MODE, AND ALL OTHER SWITCH CONTACTS ARE OPEN; "OOX" INDICATES THAT THE BOTTOM CONTACT IS CLOSED WHEN SWITCH IS IN AUTO MODE, ALL OTHER SWITCH CONTACTS ARE OPEN.

ELECTRICAL SYMBOLS - SINGLE LINE DIAGRAM

DEVICE	SYMBOL DESCRIPTION
	DRY TYPE TRANSFORMER
	IRON CORE TRANSFORMER
	POTENTIAL TRANSFORMER
	CURRENT TRANSFORMER
	FUSE
40	MOTOR, 40 HORSEPOWER
	GROUNDING ELECTRODE
600AF/400AT	LOW VOLTAGE CIRCUIT BREAKER MCCB UON
52	MEDIUM VOLTAGE CIRCUIT BREAKER, DRAW-OUT TYPE SEE ANSI/IEEE C37.2 STANDARD DEVICE NUMBERS LIST
VFD	VARIABLE FREQUENCY DRIVE
SSS	SOLID STATE STARTER (SOFT STARTER)
SPD	SURGE PROTECTION DEVICE
PQM	POWER QUALITY MONITOR
SST	SOLID STATE TRIP
	NON-FUSED DISCONNECT SWITCH
	FUSED DISCONNECT SWITCH
	VALVE MOTOR AND ACTUATOR
	MOTOR OVERLOAD HEATER
FVNR1	MAGNETIC MOTOR STARTER FVNR1 = FULL VOLTAGE NON-REVERSING, NEMA SIZE 1 RV2S2W = REDUCED VOLTAGE 2-SPEED, 2-WINDING
47	PROTECTION RELAY SEE ANSI/IEEE C37.2 STANDARD DEVICE NUMBERS LIST
M	METER, ELECTRIC UTILITY GRADE UON
	LOCAL CONTROL SWITCH

ANSI/IEEE C37.2 STANDARD DEVICE NUMBERS

THE FOLLOWING IS A LIST OF TYPICAL DEVICE NUMBERS.
SEE ANSI/IEEE C37.2 FOR A COMPLETE LIST OF DEVICES.

11	MULTI-FUNCTION DEVICE
21	DISTANCE RELAY
23	TEMPERATURE CONTROL DEVICE
24	VOLTS PER HERTZ RELAY
25	SYNCHRONIZING OR SYNCHRONISM-CHECK DEVICE
27	UNDERVOLTAGE RELAY
32	DIRECTIONAL POWER RELAY OR REVERSE POWER RELAY
37	UNDERCURRENT OR UNDERPOWER RELAY
38	BEARING PROTECTIVE DEVICE
42	RUNNING CIRCUIT BREAKER
47	PHASE SEQUENCE OR PHASE-BALANCE VOLTAGE RELAY
50	INSTANTANEOUS OVERCURRENT RELAY
51	AC INVERSE TIME OVERCURRENT RELAY
52	AC CIRCUIT BREAKER
55	POWER FACTOR RELAY
57	SHORT-CIRCUITING OR GROUNDING DEVICE
59	OVERVOLTAGE RELAY
67	AC DIRECTIONAL OVERCURRENT RELAY
86	LOCKOUT RELAY
87	DIFFERENTIAL PROTECTIVE RELAY

ELECTRICAL ABBREVIATIONS

(D)	DEMOLISH
(E)	FUTURE
(R)	RELOCATE
%Z	PERCENT IMPEDANCE
A	AMPERES, ANALOG SIGNAL
AC	ALTERNATING CURRENT
AF	AMPERES FRAME
AFF	ABOVE FINISHED FLOOR
AFG	ABOVE FINISHED GRADE
AHJ	AUTHORITY HAVING JURISDICTION
AIC	AMPERES INTERRUPTING CAPACITY
AT	AMPERES TRIP
ATS	AUTOMATIC TRANSFER SWITCH
AWG	AMERICAN WIRE GAUGE
BC	BARE COPPER
BFG	BELOW FINISHED GRADE
C	CONDUIT
CB	CIRCUIT BREAKER
CCT	CORRELATED COLOR TEMPERATURE
CO	CONDUIT ONLY
CP	CONTROL PANEL
CPT	CONTROL POWER TRANSFORMER
CRI	COLOR RENDERING INDEX
CT	CURRENT TRANSFORMER
CU	COPPER
DC	DIRECT CURRENT
EF	EXHAUST FAN
EGC	EQUIPMENT GROUNDING CONDUCTOR
ELEV	ELEVATION
EMT	ELECTRICAL METALLIC TUBING (CONDUIT)
ETM	ELAPSED TIME METER
EXIST	EXISTING
FACP	FIRE ALARM CONTROL PANEL
FCB	FEEDER CIRCUIT BREAKER
FIT	FLOW INDICATING TRANSMITTER
FLEX	FLEXIBLE
FLUOR	FLUORESCENT
FPP	FIBER OPTIC PATCH PANEL
FVNR	FULL VOLTAGE NON-REVERSING STARTER
G, GND	GROUND
GFCI	GROUND FAULT CIRCUIT INTERRUPTER
H	HALOGEN
HH	HANDHOLE
HID	HIGH INTENSITY DISCHARGE
HMI	HUMAN MACHINE INTERFACE
HOA	HAND / OFF / AUTOMATIC
HP	HORSEPOWER
HPS	HIGH PRESSURE SODIUM
HS	HAND SWITCH
ICP	INSTRUMENTATION CONTROL PANEL
ID	INSIDE DIAMETER
INCAND	INCANDESCENT
ISP	INTERNET SERVICE PROVIDER
JB, JBOX	JUNCTION BOX
KAIC	KILOAMPERES INTERRUPTING CAPACITY
KVA	KILOVOLT-AMPERE
KW	KILOWATT
KWH	KILOWATT-HOUR
LED	LIGHT EMITTING DIODE
LCP	LOCAL CONTROL PANEL
LIT	LEVEL INDICATING TRANSMITTER
LOS	LOCKOUT STOP SWITCH
LPS	LOW PRESSURE SODIUM
LSLL	LEVEL SWITCH LOW-LOW
MCB	MAIN CIRCUIT BREAKER
MCC	MOTOR CONTROL CENTER
MCCB	MOLDED CASE CIRCUIT BREAKER
MCP	MOTOR CIRCUIT PROTECTOR
MH	METAL HALIDE, MANHOLE
MIN	MINIMUM
MLO	MAIN LUGS ONLY
MPR	MOTOR PROTECTION RELAY
MSB	MAIN SWITCHBOARD
N	NEUTRAL
NC	NORMALLY CLOSED
NIC	NOT IN CONTRACT
NO	NORMALLY OPEN
NO.	NUMBER
NTS	NOT TO SCALE
OD	OUTSIDE DIAMETER
OL'S	MOTOR OVERLOAD CONTACTS
P	POLE
PB	PUSHBUTTON, PULLBOX
PE	PHOTOELECTRIC
PFM	PHASE FAILURE MONITOR
PH	PHASE
PIT	PRESSURE INDICATING TRANSMITTER
PLC	PROGRAMMABLE LOGIC CONTROLLER
PME	POWER MONITORING EQUIPMENT
POC	POINT OF CONNECTION
PQM	POWER QUALITY MONITOR
PSHL	PRESSURE SWITCH HIGH/LOW
PSH	PRESSURE SWITCH HIGH
PSL	PRESSURE SWITCH LOW
PT	POTENTIAL TRANSFORMER
RECEPT	RECEPTACLE
RGS	RIGID GALVANIZED STEEL
RIO	REMOTE INPUT/OUTPUT DEVICE
RPM	REVERSE POWER MONITOR
RTD	RESISTANCE TEMPERATURE DETECTOR
RTU	REMOTE TERMINAL UNIT
RVSS	REDUCED VOLTAGE SOFT STARTER
SCCR	SHORT CIRCUIT CURRENT RATING
SN	SOLID NEUTRAL
SPD	SURGE PROTECTIVE DEVICE
SSS	SOLID STATE STARTER (SOFT STARTER)
SWBD	SWITCHBOARD
SYM	SYMMETRICAL
T	TELEPHONE
TEMP	TEMPERATURE
TSP	TWISTED SHIELDED PAIR
TST	TWISTED SHIELDED TRIAD
TTB	TERMINAL TELEPHONE BACKBOARD
TYP	TYPICAL
UGPS	UNDERGROUND PULL SECTION
UON	UNLESS OTHERWISE NOTED
US	UNIT SUBSTATION
V	VOLT(S)
VA	VOLT-AMPERE
VFD	VARIABLE FREQUENCY DRIVE
VIT	VIBRATION INDICATING TRANSMITTER
W	WATT, WIRE
WP	WEATHERPROOF
XFMR	TRANSFORMER
ZS	LIMIT SWITCH

GENERAL ELECTRICAL NOTES

1. REFER TO ELECTRICAL SPECIFICATIONS FOR FURTHER DETAIL AS TO SCOPE, MATERIALS, AND EXECUTION OF ELECTRICAL WORK.
2. ALL WIRING DESIGN IS BASED ON 75 DEGREE C CONDITIONS FOR COPPER CONDUCTORS OF TYPE THHN/THWN UNLESS OTHERWISE STATED.
3. ELECTRICAL CONTRACTOR TO SIZE ALL WIRING NOT EXPLICITLY SHOWN ON DRAWINGS ACCORDING TO THE REQUIREMENTS OF NATIONAL ELECTRICAL CODE (NEC) FOR THE SPECIFIC APPLICATION AND CONDITIONS.
4. ALL CONDUCTORS SHALL BE COPPER (MINIMUM SIZE #12 AWG UNLESS SPECIFICALLY NOTED OTHERWISE).
5. CONTRACTOR SHALL SUBMIT SEISMIC ANCHORAGE CALCULATIONS IN CONFORMANCE WITH CODE REQUIREMENTS AND PROVIDE SEISMIC ANCHORAGE MEANS FOR EQUIPMENT IN ACCORDANCE WITH THE CALIFORNIA BUILDING CODE.
6. THE ELECTRICAL CONTRACTOR SHALL CONFORM WITH ALL LOCAL CODES AND ORDINANCES, THE STATE OF CALIFORNIA ELECTRICAL SAFETY ORDERS, THE NATIONAL ELECTRICAL CODE AND ANY ADDITIONAL JURISDICTIONS RELATING TO THE WORK.
7. THE ELECTRICAL CONTRACTOR SHALL FURNISH AND INSTALL ALL CONDUIT, WIRE, TRANSFER SWITCHES, RECEPTACLES, SERVICES, SWITCHBOARDS, MCC, AND PANELBOARDS REQUIRED FOR A COMPLETE AND OPERATIONAL ELECTRICAL SYSTEM.
8. THE ELECTRICAL CONTRACTOR SHALL BE RESPONSIBLE TO CONFIRM THAT PROPOSED NEW EQUIPMENT ON THE CONTRACT WILL FIT DIMENSIONALLY WITH EXISTING EQUIPMENT IN LOCATION SHOWN ON DRAWINGS.
9. THE PLANS SHOW CONDUIT AND CABLE RUNS DIAGRAMMATICALLY. CONTRACTOR SHALL ROUTE CONDUIT AND CABLE TO SUIT FIELD CONDITIONS, EXCEPT IN LOCATIONS WHERE DIMENSIONED.
10. IN THE EVENT OF A CONFLICT OR INCONSISTENCY BETWEEN ITEMS INDICATED ON THE PLANS AND/OR SPECIFICATIONS, OR WITH CODE REQUIREMENTS, THE NOTE, SPECIFICATION OR CODE WHICH PRESCRIBES AND ESTABLISHES THE MORE STRINGENT JOB OR HIGHER STANDARD SHALL PREVAIL.
11. ALL ELECTRICAL EQUIPMENT EXPOSED TO THE CLIMATE SHALL BE WEATHERPROOF.
12. ALL ELECTRICAL EQUIPMENT IN THIS PROJECT SHALL BE U.L. LISTED.
13. ALL UNDERGROUND CONDUIT SHALL BE INSTALLED AT 30" BELOW FINISHED GRADE MINIMUM.
14. THE ELECTRICAL CONTRACTOR SHALL BE RESPONSIBLE FOR LOCATING EXISTING UNDERGROUND FACILITIES AND PROTECTING THESE FACILITIES FROM DAMAGE.
15. THE ELECTRICAL CONTRACTOR SHALL ROUTE CONDUITS AS REQUIRED BY FIELD CONDITIONS AND PER N.E.C.
16. THE ELECTRICAL CONTRACTOR SHALL BE RESPONSIBLE FOR REPAIRING ANY DAMAGE TO EXISTING UNDERGROUND FACILITIES.
17. FOR RECEPTACLE SYSTEMS, ONLY CONDUIT AND WIRE HOMERUNS AND CIRCUIT NUMBERS ARE SHOWN. CONTRACTOR SHALL FURNISH AND INSTALL ALL NECESSARY CONDUIT, WIRE, FITTINGS, JUNCTION BOXES, AND OTHER NECESSARY EQUIPMENT NOT SHOWN ON THE DRAWINGS THAT ARE REQUIRED FOR A COMPLETE AND OPERATIONAL SYSTEM.
18. CONTRACTOR SHALL PROVIDE ALL NEEDED CHANNELS, ANGLES, AND ANY OTHER MATERIALS REQUIRED TO SUPPORT LUMINAIRES, CONDUIT, AND ELECTRICAL EQUIPMENT IN THE LOCATIONS SHOWN ON THE DRAWINGS.
19. CONTRACTOR SHALL NOT CUT ANY STRUCTURAL MEMBERS OR USE ANY ATTACHMENTS THAT WOULD IMPAIR THEIR STRENGTH.
20. CONTRACTOR SHALL DESIGN SUPPORTS IN BETWEEN THE STRUCTURAL SUPPORT MEMBERS AND SUBMIT THE DESIGN AS A SHOP DRAWING SUBMITTAL.
21. INSTRUMENTATION IS SHOWN IN THE GENERAL VICINITY OF THE INTENDED LOCATION AND MAY NOT NECESSARILY MATCH LOCATIONS ON THE MECHANICAL PLANS. VERIFY ACTUAL LOCATIONS OF INSTRUMENTS AND RUN ASSOCIATED CONDUITS AS REQUIRED.
22. ALL EXPOSED CONDUITS TO BE GALVANIZED RIGID STEEL FOR DRY LOCATIONS AND PVC COATED GALVANIZED RIGID STEEL IN WET LOCATIONS UNLESS OTHERWISE STATED ON THE PLANS.

PLANS PREPARED BY:
TETRA TECH, INC.
707 WILSHIRE BLVD, 23RD FLR.
LOS ANGELES, CA 90017
PHONE: (213) 239-8866

CITY OF LOS ANGELES — DEPARTMENT OF PUBLIC WORKS — BUREAU OF ENGINEERING

VERT. CONTROL: BM 12-04070, 1929 (NGVD29) - 1985 ADJUSTMENT
HORIZ. CONTROL: GPS; PID AE 1704, EPOCH 1991.35

SHEET TITLE: ELECTRICAL LEGEND, SYMBOLS, & ABBRIVIATIONS
PROJECT: SIXTH STREET PARK, ARTS AND RIVER CONNECTIVITY IMPROVEMENTS (PARC)
ADDRESS: SIXTH STREET OVER THE LOS ANGELES RIVER

GARY LEE MOORE, P.E., ENV SP — CITY ENGINEER
DESIGN GROUP
ENGINEER: LIC. NO. E-15809 DATE: 07/11/22
DESIGNED BY: JAMES ROBERTS
DRAWN BY: JAMES ROBERTS
CHECKED BY: MAZEN KASSAR
APPROVED BY: MAZEN KASSAR

THIS PLAN WAS ELECTRONICALLY SIGNED AND STAMPED.
REGISTERED PROFESSIONAL ENGINEER — MAZEN KASSAR — No. E 15809 — Exp. 12-31-22 — ELECTRICAL — STATE OF CALIFORNIA

NO. | REVISIONS: | DATE: | BY:

INDEX NO.
BUILDING NO.
ENGINEERING — CITY OF LOS ANGELES

WORK ORDER NO. E700235D
FILE NO. --
DRAWING NO. E-001
SHEET 165 OF 295 SHEETS

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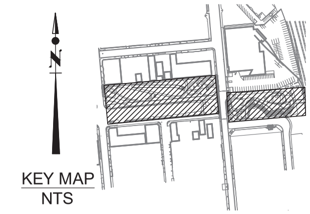

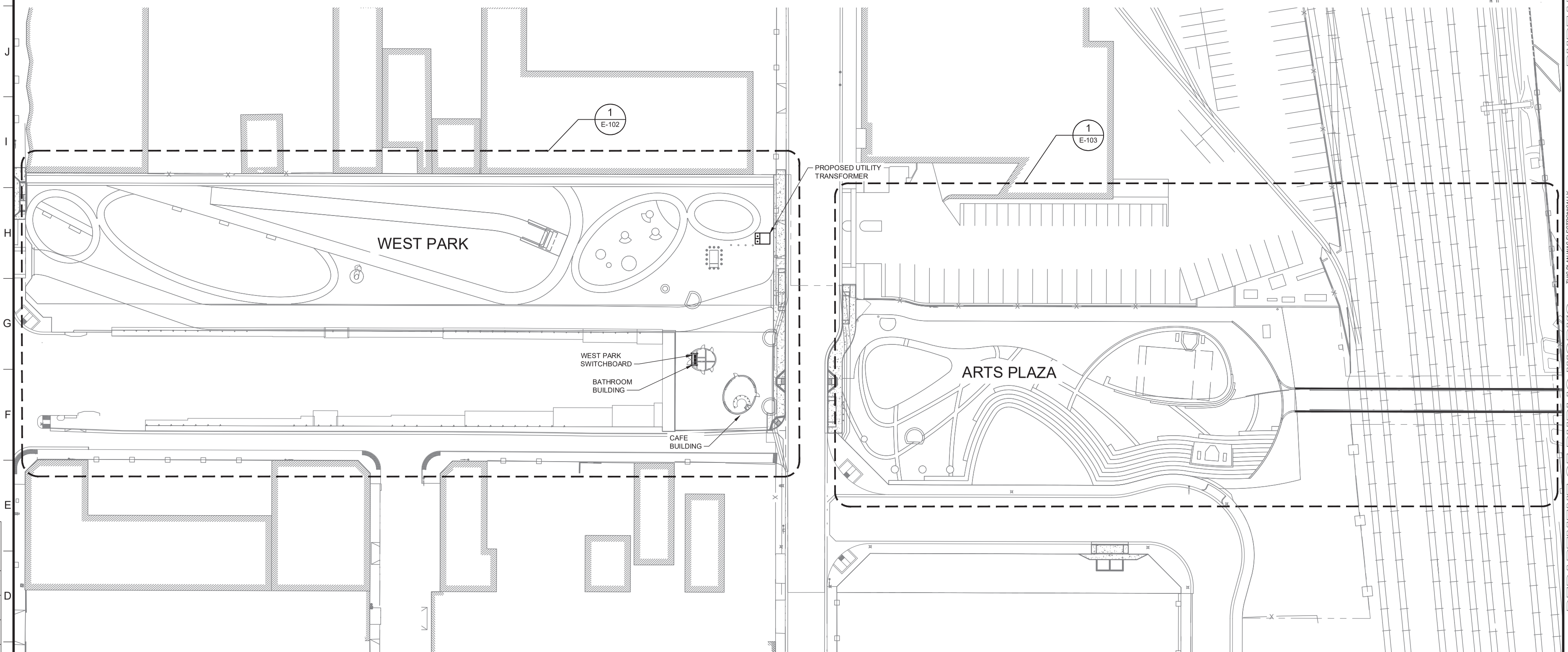

1 WEST PARK OVERALL SITE PLAN

SCALE: 1" = 40'

THE CITY OF LOS ANGELES OR ITS OFFICERS OR AGENTS SHALL NOT BE RESPONSIBLE FOR THE ACCURACY OR COMPLETENESS OF ELECTRONIC COPIES OF THIS PLAN SHEET.

REVISION DATES (DESIGN STAGE ONLY)

PLANS PREPARED BY:
TETRA TECH, INC.
707 WILSHIRE BLVD. 23RD FLR.
LOS ANGELES, CA 90017
PHONE: (213) 239-8866

CITY OF LOS ANGELES
DEPARTMENT OF PUBLIC WORKS
BUREAU OF ENGINEERING

VERT. CONTROL: BM 12-04070, 1929 (NGVD29) - 1985 ADJUSTMENT
HORIZ. CONTROL: GPS. PID AE 1704, EPOCH 1991.35

SHEET TITLE: WEST PARK ELECTRICAL OVERALL SITE PLAN
PROJECT: SIXTH STREET PARK, ARTS AND RIVER CONNECTIVITY IMPROVEMENTS (PARC)
ADDRESS: SIXTH STREET OVER THE LOS ANGELES RIVER

WORK ORDER NO. E700235D
FILE NO. --
DRAWING NO. E-101
SHEET 166 OF 295 SHEETS

GARY LEE MOORE, P.E., ENV SP
CITY ENGINEER
DESIGN GROUP
LIC. NO. E-15809 DATE: 07/11/22
ENGINEER:
DESIGNED BY: JAMES ROBERTS
DRAWN BY: JAMES ROBERTS
CHECKED BY: MAZEN KASSAR
APPROVED BY: MAZEN KASSAR

THIS PLAN WAS ELECTRONICALLY SIGNED AND STAMPED.

REGISTERED PROFESSIONAL ENGINEER
MAZEN KASSAR
No. E 15809
Exp. 12-31-22
ELECTRICAL
STATE OF CALIFORNIA

NO.	REVISIONS	DATE	BY

INDEX NO.
BUILDING NO.

ENGINEERING
CITY OF LOS ANGELES

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Sheet Version 3.0

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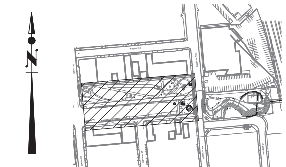

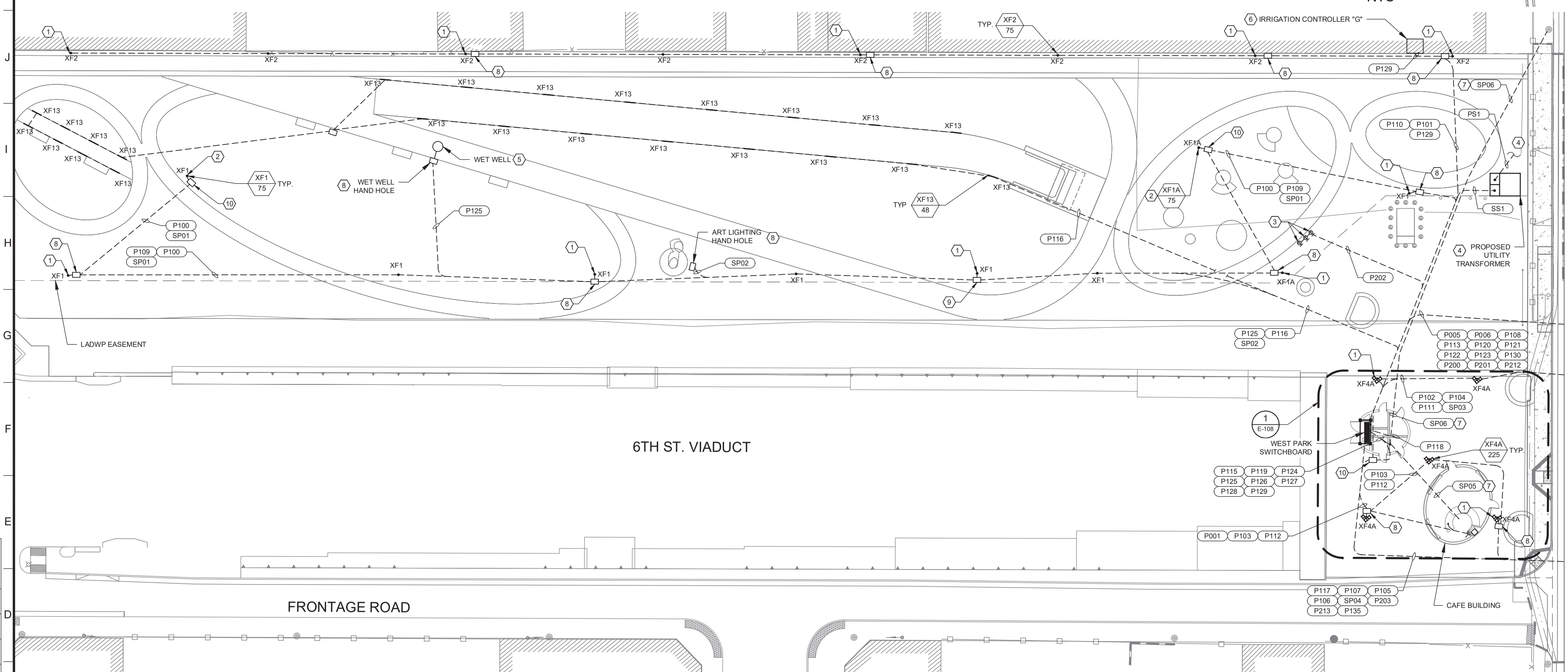

CONSTRUCTION NOTES

1. PROVIDE A NEW WP GFCI RECEPTACLE MOUNTED ON THE LIGHT POLE. FOR ELEVATION DETAIL SEE SHEET E-501, DETAIL 5.
2. PROVIDE HAND HOLE ACCESS POINT ON TOP OF LIGHT POLE AND BURIED ELECTRICAL BOX AT BASE OF LIGHT POLE. SPARE CONDUIT SHALL STUB UP AT BURIED ELECTRICAL BOX, 24"X36"X24", AT BASE OF LIGHT POLE. FOR ELEVATION DETAIL SEE SHEET E-501, DETAIL 6.
3. PROVIDE PEDESTAL-MOUNTED, LOCKABLE, WEATHER PROOF, 30A, 3P, 5W PIN AND SLEEVE- SWITCHED RECEPTACLES. SEE SHEET E-502 DETAIL 1 FOR ELEVATION DETAIL.
4. CONTRACTOR SHALL COORDINATE WITH LADWP FOR POINT OF CONNECTION AND XFMR MOUNTING LOCATION. REFER TO LADWP FOR WORK DETAIL.
5. FOR WET WELL SUMP PUMP POWER CONNECTIONS, SEE SHEET E-502, DETAIL 4.
6. REFER TO IRRIGATION PLANS FOR CONTINUATION.
7. CONTRACTOR TO STUB-UP AND CAP CONDUIT AT EACH END FOR FUTURE USE.
8. 17"X11"X12" PULL BOX.
9. 24"X24"X12" PULL BOX.
10. 24"X36"X24" PULL BOX.

1 — WEST PARK SITE PLAN

LEGEND:

- 30A, 3P, 5W PIN & SLEEVE RECEPTACLE
- DISCONNECT SWITCH
- HAND HOLE OR PULL BOX
- POLE MOUNTED LIGHT- XF1, XF1A, XF2
- POLE WITH 6 ACCENT LIGHTS- XF4A
- ARM MOUNTED PATH LIGHT- XF13

SCALE: 1"=20'

PLANS PREPARED BY:
TETRA TECH, INC.
707 WILSHIRE BLVD. 23RD FLR.
LOS ANGELES, CA 90017
PHONE: (213) 239-8866

CITY OF LOS ANGELES
DEPARTMENT OF PUBLIC WORKS
BUREAU OF ENGINEERING

VERT. CONTROL: BM 12-04070, 1929 (NGVD29) - 1985 ADJUSTMENT
HORIZ. CONTROL: GPS, PID AE 1704, EPOCH 1991.35

SHEET TITLE: ELECTRICAL SITE PLAN I
PROJECT: SIXTH STREET PARK, ARTS AND RIVER CONNECTIVITY IMPROVEMENTS (PARC)
ADDRESS: SIXTH STREET OVER THE LOS ANGELES RIVER

GARY LEE MOORE, P.E., ENV SP — CITY ENGINEER
DESIGN GROUP
LIC. NO. E-15809 — DATE: 07/11/22
ENGINEER:
DESIGNED BY: JAMES ROBERTS
DRAWN BY: JAMES ROBERTS
CHECKED BY: MAZEN KASSAR
APPROVED BY: MAZEN KASSAR

REGISTERED PROFESSIONAL ENGINEER — MAZEN KASSAR — No. E 15809 — Exp. 12-31-22 — ELECTRICAL — STATE OF CALIFORNIA

THIS PLAN WAS ELECTRONICALLY SIGNED AND STAMPED

NO.	REVISIONS:	DATE	BY:

INDEX NO.
BUILDING NO.

ENGINEERING — CITY OF LOS ANGELES

WORK ORDER NO. E700235D
FILE NO. --
DRAWING NO. E-102
SHEET 167 OF 295 SHEETS

7/11/2022 8:13:10 PM - O:\PROJECTS\IRVINE\2004\3\200-20043-17001\CAD\SHEETFILES\E-102 ELECTRICAL SITE PLAN I.DWG - ROBERTS, JAMES1

REVISION DATES (DESIGN STAGE ONLY)

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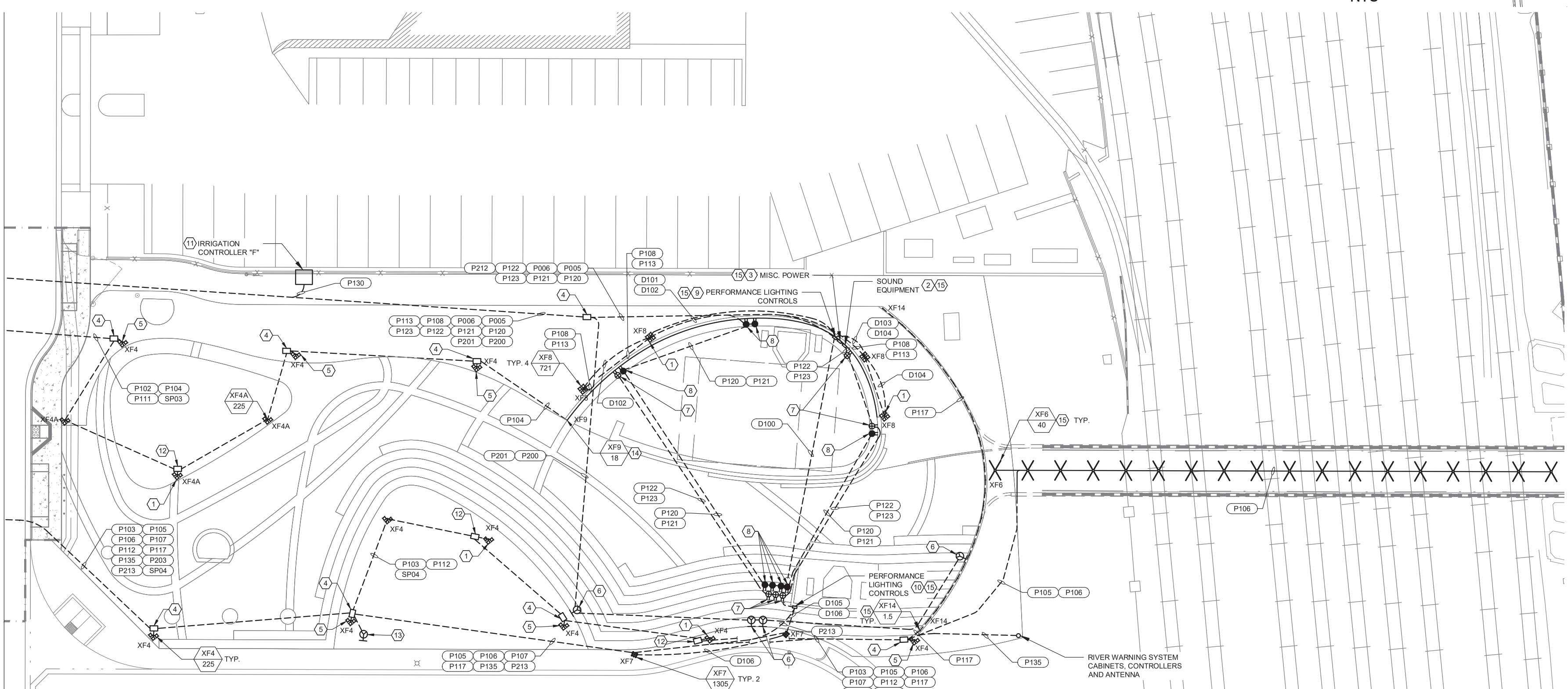


ARTS PLAZA SITE PLAN

MATCH LINE: SEE SHEET E-102

CONSTRUCTION NOTES

1. PROVIDE A NEW WP GFCI RECEPTACLE MOUNTED ON THE POLE LIGHT. FOR ELEVATION DETAIL SEE SHEET E-501, DETAIL 5.
2. PROVIDE LOCKABLE 200A, 3P, 5W, NEMA 3R THEATRE POWER SWITCH. WALL-MOUNTED ON CONCRETE WALL. SEE SHEET E-503, DETAIL 4.
3. PROVIDE LOCKABLE 400A, 3P, 5W, NEMA 3R THEATRE POWER SWITCH. WALL-MOUNTED ON CONCRETE WALL. SEE SHEET E-503, DETAIL 4.
4. 24"X36"X24" PULL BOX.
5. PROVIDE HAND HOLE ACCESS POINT ON TOP OF LIGHT POLE AND BURIED ELECTRICAL BOX, 24"X36"X24", AT BASE OF LIGHT POLE. SPARE CONDUIT SHALL STUB UP AT BURIED ELECTRICAL BOX AT BASE OF LIGHT POLE. FOR ELEVATION DETAIL SEE SHEET E-501, DETAIL 6.
6. PROVIDE WALL-MOUNTED, WEATHER PROOF, 30A, 3P, 5W PIN & SLEEVE- SWITCHED RECEPTACLES. SEE SHEET E-503, DETAIL 3.14.
7. PROVIDE WALL-MOUNTED, WEATHERPROOF, 20A QUAD RECEPTACLES. SEE SHEET E-503, DETAIL 3.
8. PROVIDE WALL-MOUNTED, WEATHERPROOF, 20A QUAD RECEPTACLES WITH ISOLATED GROUND. SEE SHEET E-503, DETAIL 3.
9. NEMA 3R ENCLOSURE FOR PERFORMANCE LIGHTING CONTROLS TO BE INSTALLED BY CONTRACTOR. CONTRACTOR RESPONSIBLE FOR THE FINAL DESIGN, INSTALLATION, AND COMMISSIONING OF THE LIGHTING CONTROL SYSTEM. MUST USE A LIGHTING CONTROL SYSTEM INTEGRATOR. SEE SHEET E-601 FOR CONTROL SCHEMATIC. ENCLOSURE TO BE WALL-MOUNTED ON CONCRETE WALL.
10. NEMA 3R ENCLOSURE FOR PERFORMANCE LIGHTING CONTROLS TO BE INSTALLED BY CONTRACTOR. CONTRACTOR RESPONSIBLE FOR THE FINAL DESIGN, INSTALLATION, AND COMMISSIONING OF THE LIGHTING CONTROL SYSTEM. MUST USE A LIGHTING CONTROL SYSTEM INTEGRATOR. SEE SHEET E-601 FOR CONTROL SCHEMATIC.
11. REFER TO IRRIGATION PLANS FOR CONTINUATION.
12. 17"X11"X12" PULL BOX.
13. PROVIDE PEDESTAL, WEATHER PROOF, 30A, 3P, 5W PIN & SLEEVE- SWITCHED RECEPTACLES. SEE SHEET E-503, DETAIL 3.14.
14. XF9 LIGHTING RUNS ALONG ENTIRE WALL SURFACE.
15. EQUIPMENT MOUNTING AND ANCHORAGE SHALL BE DESIGNED AND PROVIDED BY THE CONTRACTOR AS DEFERRED SUBMITTAL. STRUCTURAL CALCULATIONS AND SHOP DRAWINGS FOR THE PAD AND/OR EQUIPMENT ANCHORAGE, STAMPED AND SIGNED BY A DULY LICENSED CIVIL OR STRUCTURAL ENGINEER IN THE STATE OF CALIFORNIA, SHALL BE PROVIDED BY THE CONTRACTOR FOR REVIEW AND APPROVAL. REFER TO THE NOTES ON SHEET S-001 AND S-002 FOR ADDITIONAL REQUIREMENTS.

LEGEND:

- QUAD RECEPTACLE
- 30A, 3P, 4W PIN & SLEEVE RECEPTACLE
- QUAD RECEPTACLE WITH ISOLATED GROUND
- DISCONNECT SWITCH
- HAND HOLE OR PULL BOX
- POLE WITH 6 ACCENT LIGHTS- XF4, XF4A
- POLE WITH 6 ACCENT LIGHTS & 4 THEATRICAL LIGHTS- XF8
- POLE WITH 6 ACCENT LIGHTS AND 6 THEATRICAL LIGHTS- XF7
- LED DOWNLIGHT- XF6(4)

KEY MAP
NTS

SCALE: 1"=20'

PLANS PREPARED BY:
TETRA TECH, INC.
707 WILSHIRE BLVD. 23RD FLR.
LOS ANGELES, CA 90017
PHONE: (213) 239-8866

CITY OF LOS ANGELES — DEPARTMENT OF PUBLIC WORKS — BUREAU OF ENGINEERING

VERT. CONTROL: BM 12-04070, 1929 (NGVD29) - 1985 ADJUSTMENT
HORIZ. CONTROL: GPS, PID AE 1704, EPOCH 1991.35

SHEET TITLE: ELECTRICAL SITE PLAN II
PROJECT: SIXTH STREET PARK, ARTS AND RIVER CONNECTIVITY IMPROVEMENTS (PARC)
ADDRESS: SIXTH STREET OVER THE LOS ANGELES RIVER

GARY LEE MOORE, P.E., ENV SP — CITY ENGINEER
DESIGN GROUP
ENGINEER: LIC. NO. E-15809 DATE: 07/11/22
DESIGNED BY: JAMES ROBERTS
DRAWN BY: JAMES ROBERTS
CHECKED BY: MAZEN KASSAR
APPROVED BY: MAZEN KASSAR

THIS PLAN WAS ELECTRONICALLY SIGNED AND STAMPED

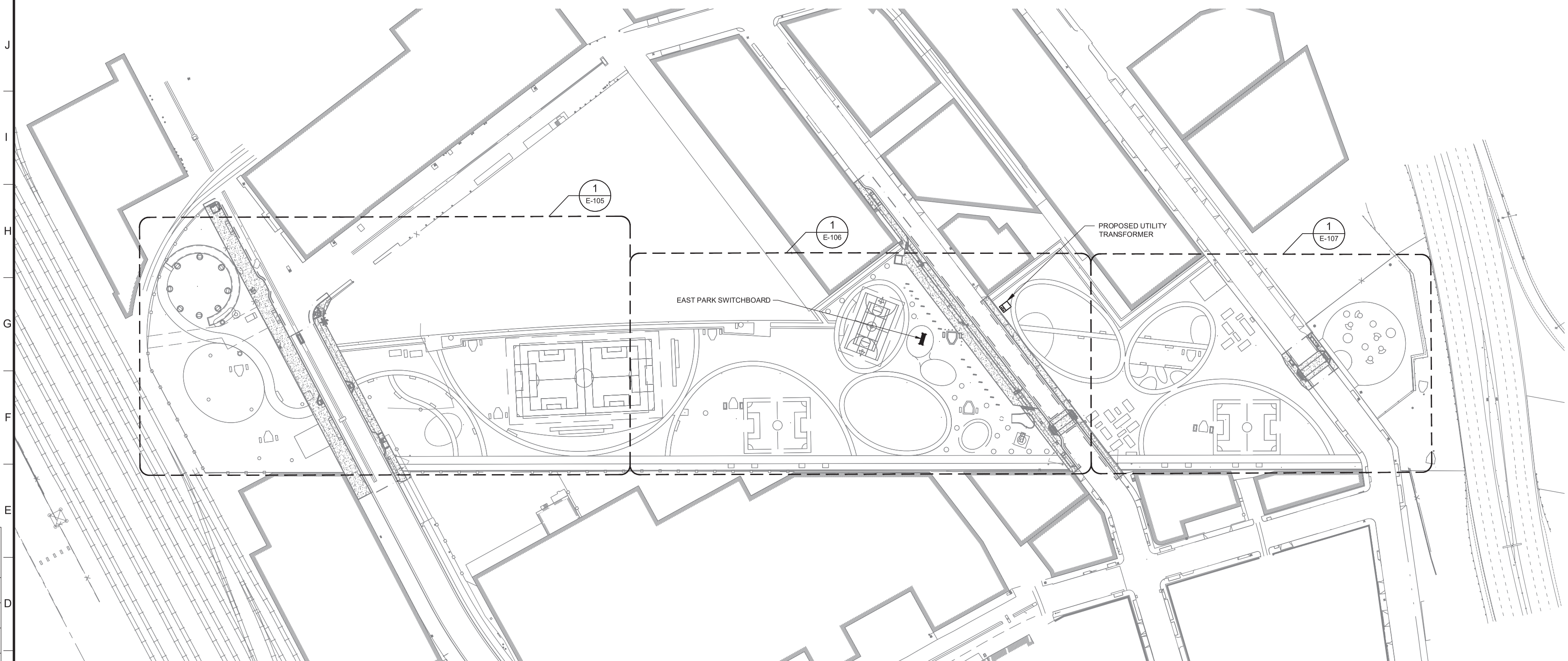
REGISTERED PROFESSIONAL ENGINEER — MAZEN KASSAR — No. E 15809 — Exp. 12-31-22 — ELECTRICAL — STATE OF CALIFORNIA

NO.	REVISIONS	DATE	BY

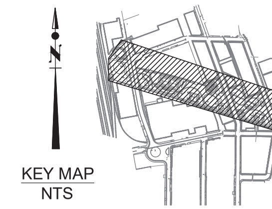
INDEX NO.
BUILDING NO.

WORK ORDER NO. E700235D
FILE NO. --
DRAWING NO. E-103
SHEET 168 OF 295 SHEETS

REVISION DATES (DESIGN STAGE ONLY)



1 EAST PARK OVERALL SITE PLAN



KEY MAP
NTS

SCALE: 1"=60'

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REVISION DATES (DESIGN STAGE ONLY)

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PLANS PREPARED BY:

TETRA TECH, INC.
707 WILSHIRE BLVD. 23RD FLR.
LOS ANGELES, CA 90017
PHONE: (213) 239-8866

CITY OF LOS ANGELES · DEPARTMENT OF PUBLIC WORKS · BUREAU OF ENGINEERING

VERT. CONTROL: BM 12-04070, 1929 (NGVD29) - 1985 ADJUSTMENT
HORIZ. CONTROL: GPS, PID AE 1704, EPOCH 1991.35

SHEET TITLE: EAST PARK ELECTRICAL OVERALL SITE PLAN

PROJECT: SIXTH STREET PARK, ARTS AND RIVER CONNECTIVITY IMPROVEMENTS (PARC)

ADDRESS: SIXTH STREET OVER THE LOS ANGELES RIVER

WORK ORDER NO. E700235D

FILE NO. --

DRAWING NO. E-104

SHEET 169 OF 295 SHEETS

GARY LEE MOORE, P.E., ENV SP
CITY ENGINEER

DESIGN GROUP

DATE: 07/11/22

ENGINEER: LIC. NO. E-15809

DESIGNED BY: JAMES ROBERTS
DRAWN BY: JAMES ROBERTS
CHECKED BY: MAZEN KASSAR
APPROVED BY: MAZEN KASSAR

THIS PLAN WAS ELECTRONICALLY SIGNED AND STAMPED

REGISTERED PROFESSIONAL ENGINEER · MAZEN KASSAR · No. E 15809 · Exp. 12-31-22 · ELECTRICAL · STATE OF CALIFORNIA

NO.	REVISIONS:	DATE:	BY:

INDEX NO.

BUILDING NO.

ENGINEERING
CITY OF LOS ANGELES

7/11/2022 8:14:57 PM - O:\PROJECTS\IRVINE\20043\200-20043-17001\CAD\SHEETFILES\E-104_EAST PARK OVERAL PLAN.DWG - ROBERTS, JAMES1

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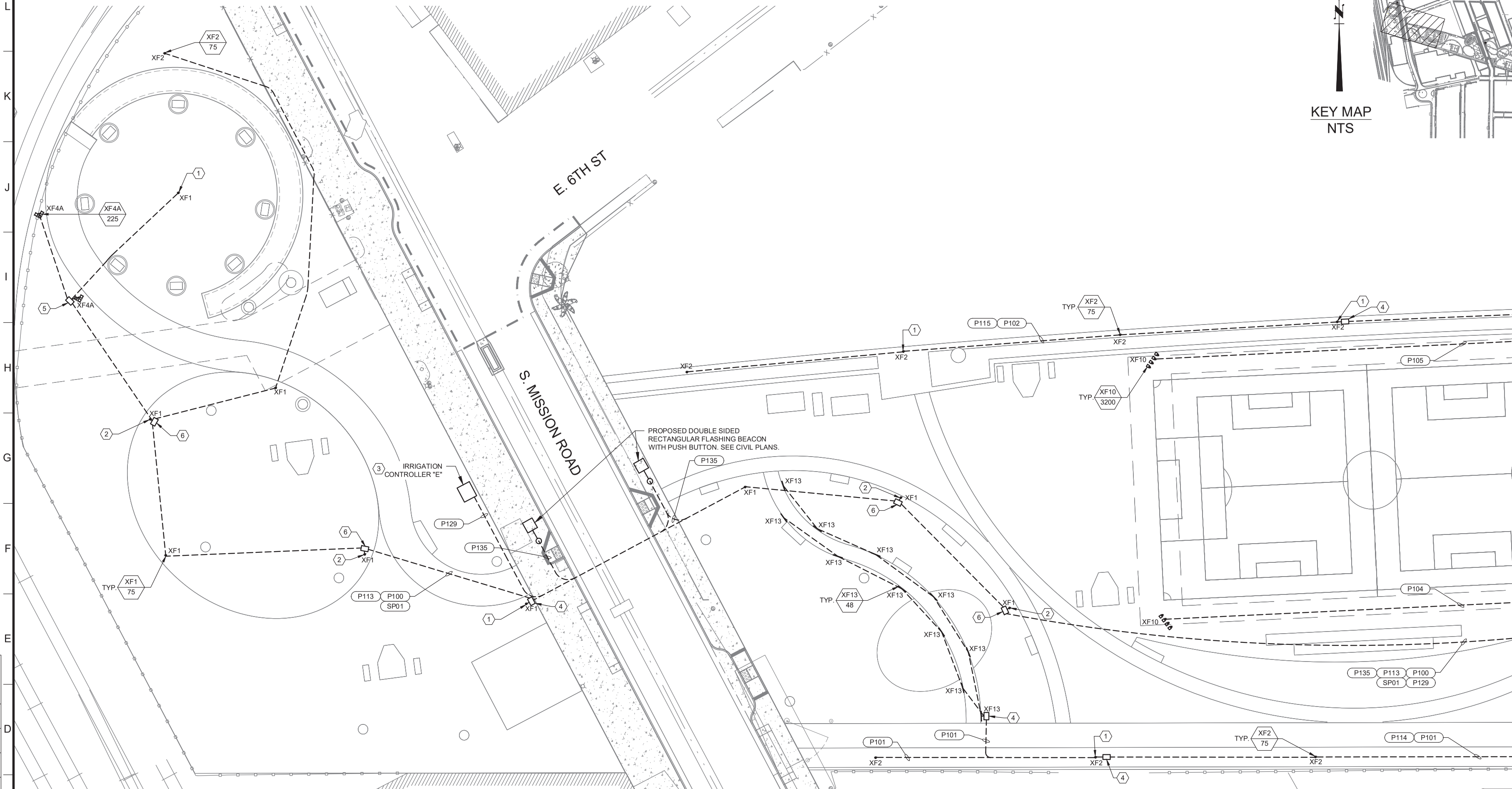

KEY MAP
NTS

EAST PARK SITE PLAN

CONSTRUCTION NOTES

1. PROVIDE A NEW WP GFCI RECEPTACLE MOUNTED ON THE POLE LIGHT. FOR ELEVATION DETAIL SEE SHEET E-501, DETAIL 5.
2. PROVIDE HAND HOLE ACCESS POINT ON TOP OF LIGHT POLE AND BURIED ELECTRICAL BOX AT BASE OF LIGHT POLE. SPARE CONDUIT SHALL STUB UP AT BURIED ELECTRICAL BOX, 24"X36"X24", AT BASE OF LIGHT POLE. FOR ELEVATION DETAIL SEE SHEET E-501, DETAIL 6.
3. REFER TO IRRIGATION PLANS FOR CONTINUATION.
4. 17"X11"X12" PULL BOX.
5. 24"X24"X12" PULL BOX.
6. 24"X36"X24" PULL BOX.

LEGEND:

- POLE MOUNTED LIGHT- XF1, XF2
- ARM MOUNTED PATH LIGHT- XF13
- POLE WITH 6 ACCENT LIGHTS- XF4A
- POLE WITH 4 SPORTS LIGHTS- XF10

SCALE: 1"=20'

PLANS PREPARED BY:
TETRA TECH, INC.
707 WILSHIRE BLVD. 23RD FLR.
LOS ANGELES, CA 90017
PHONE: (213) 239-8866

CITY OF LOS ANGELES
DEPARTMENT OF PUBLIC WORKS
BUREAU OF ENGINEERING

VERT. CONTROL: BM 12-04070, 1929 (NGVD29) - 1985 ADJUSTMENT
HORIZ. CONTROL: GPS, PID AE 1704, EPOCH 1991.35

SHEET TITLE: ELECTRICAL SITE PLAN III
PROJECT: SIXTH STREET PARK, ARTS AND RIVER CONNECTIVITY IMPROVEMENTS (PARC)
ADDRESS: SIXTH STREET OVER THE LOS ANGELES RIVER

GARY LEE MOORE, P.E., ENV SP — CITY ENGINEER
DESIGN GROUP
ENGINEER: LIC. NO. E-15809 DATE: 07/11/22
DESIGNED BY: JAMES ROBERTS
DRAWN BY: JAMES ROBERTS
CHECKED BY: MAZEN KASSAR
APPROVED BY: MAZEN KASSAR

• THIS PLAN WAS ELECTRONICALLY SIGNED AND STAMPED.

REGISTERED PROFESSIONAL ENGINEER — MAZEN KASSAR — No. E 15809 — Exp. 12-31-22 — ELECTRICAL — STATE OF CALIFORNIA

NO.	REVISIONS:	DATE:	BY:

INDEX NO.
BUILDING NO.

ENGINEERING — CITY OF LOS ANGELES

WORK ORDER NO. E700235D
FILE NO. --
DRAWING NO. E-105
SHEET 170 OF 295 SHEETS

REVISION DATES (DESIGN STAGE ONLY)

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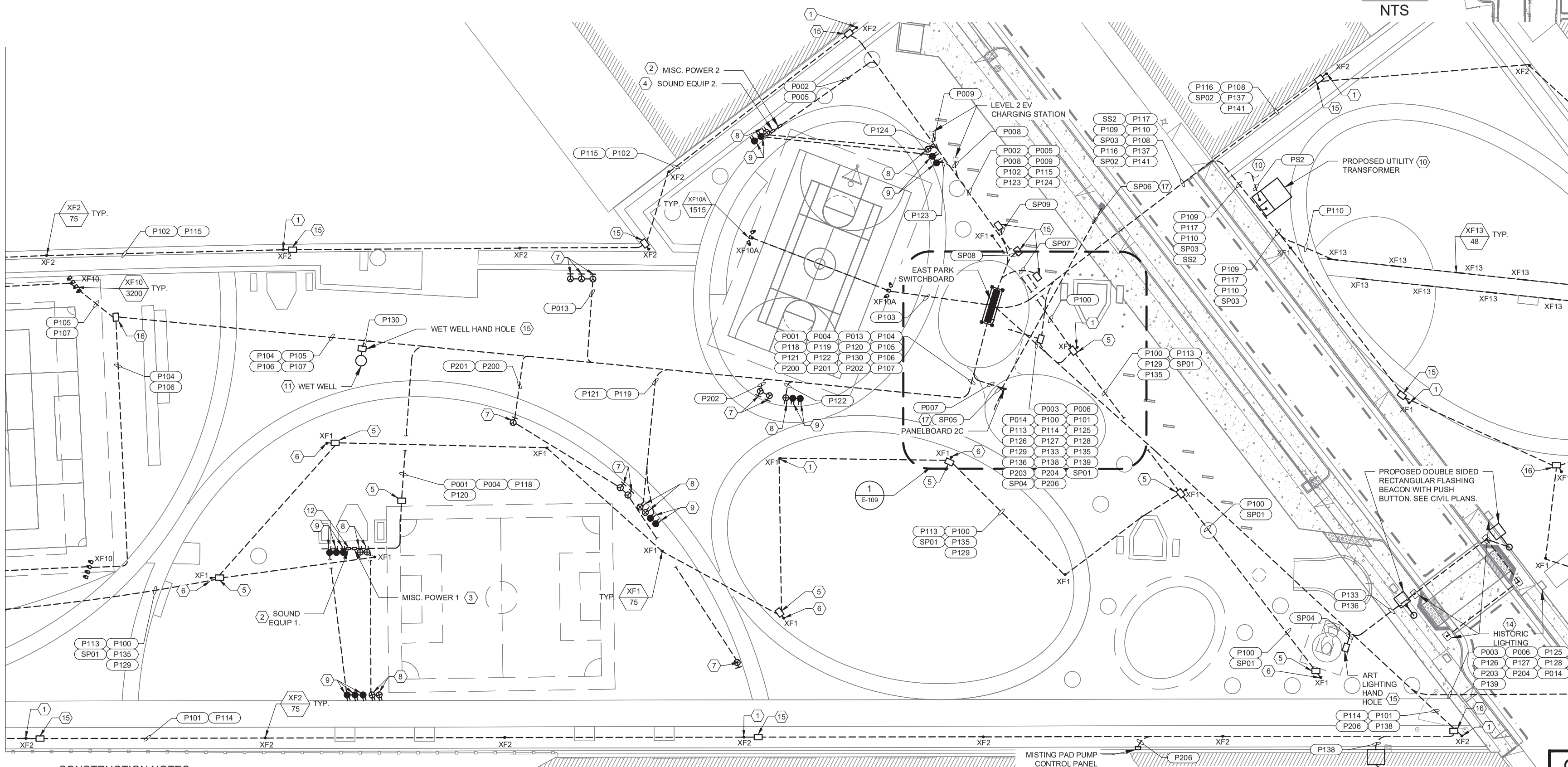
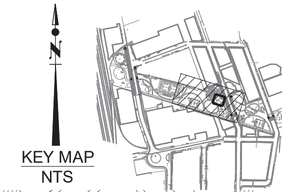




CONSTRUCTION NOTES

1. PROVIDE A NEW WP GFCI RECEPTACLE MOUNTED ON THE POLE LIGHT. FOR ELEVATION DETAIL SEE SHEET E-501, DETAIL 5.
2. PROVIDE LOCKABLE 200A, 3P, 5W, NEMA 3R THEATRE POWER SWITCH. ENCLOSURE TO BE MOUNTED ON UNISTRUT. SEE SHEET E-503, DETAIL 1.
3. PROVIDE LOCKABLE 400A, 3P, 5W, NEMA 3R THEATRE POWER SWITCH. ENCLOSURE TO BE MOUNTED ON UNISTRUT. SEE SHEET E-503, DETAIL 1.
4. PROVIDE LOCKABLE 60A, 3P, 5W, NEMA 3R THEATRE POWER SWITCH. ENCLOSURE TO BE MOUNTED ON UNISTRUT. SEE SHEET E-503, DETAIL 1.
5. 24"X36"X24" PULL BOX.
6. PROVIDE HAND HOLE ACCESS POINT ON TOP OF LIGHT POLE AND BURIED ELECTRICAL BOX AT BASE OF LIGHT POLE. SPARE CONDUIT SHALL STUB UP AT BURIED ELECTRICAL BOX, 24"X36"X24", AT BASE OF LIGHT POLE. FOR ELEVATION DETAIL SEE SHEET E-501, DETAIL 6.
7. PROVIDE LOCKABLE, PEDESTAL-MOUNTED, WEATHER PROOF, 30A, 3P, 5W PIN & SLEEVE-SWITCHED RECEPTACLES. SEE SHEET E-502, DETAIL 1.
8. PROVIDE LOCKABLE, PEDESTAL-MOUNTED, WEATHERPROOF, 20A QUAD RECEPTACLES. SEE SHEET E-502, DETAIL 1.
9. PROVIDE LOCKABLE, PEDESTAL-MOUNTED, WEATHERPROOF, 20A QUAD RECEPTACLES WITH ISOLATED GROUND. SEE SHEET E-502, DETAIL 1.
10. CONTRACTOR SHALL COORDINATE WITH LADWP FOR POINT OF CONNECTION AND XFMR MOUNTING LOCATION. REFER TO LADWP FOR WORK DETAIL.
11. FOR WET WELL SUMP PUMP POWER CONNECTIONS, SEE SHEET E-502, DETAIL 4.
12. EQUIPMENT TO MAINTAIN A MINIMUM CLEARANCE OF 30" FROM THE BENT.
13. REFER TO IRRIGATION PLANS FOR CONTINUATION.
14. REFER TO SHEET C-601, DETAIL 7 AND THE SPECIFICATIONS FOR ADDITIONAL INFORMATION.
15. 17"X11"X12" PULL BOX.
16. 24"X24"X12" PULL BOX.
17. CONTRACTOR TO STUB-UP AND CAP CONDUIT AT EACH END FOR FUTURE USE.

1 EAST PARK SITE PLAN

LEGEND:

- QUAD RECEPTACLE
- 30A, 3P, 5W PIN & SLEEVE RECEPTACLE
- QUAD RECEPTACLE WITH ISOLATED GROUND
- DISCONNECT SWITCH
- HAND HOLE OR PULL BOX
- POLE MOUNTED LIGHT- XF1, XF2
- ARM MOUNTED PATH LIGHT- XF13
- POLE WITH 3 SPORTS LIGHTS- XF10A

SCALE: 1"=20'

PLANS PREPARED BY:

TETRA TECH, INC.
707 WILSHIRE BLVD. 23RD FLR.
LOS ANGELES, CA 90017
PHONE: (213) 239-8866

CITY OF LOS ANGELES — DEPARTMENT OF PUBLIC WORKS — BUREAU OF ENGINEERING

VERT. CONTROL: BM 12-04070, 1929 (NGVD29) - 1985 ADJUSTMENT
HORIZ. CONTROL: GPS, PID AE 1704, EPOCH 1991.35

SHEET TITLE: ELECTRICAL SITE PLAN IV
PROJECT: SIXTH STREET PARK, ARTS AND RIVER CONNECTIVITY IMPROVEMENTS (PARC)
ADDRESS: SIXTH STREET OVER THE LOS ANGELES RIVER

GARY LEE MOORE, P.E., ENV SP — CITY ENGINEER
DESIGN GROUP — DATE: 07/11/22 — LIC. NO. E-15809
ENGINEER:
DESIGNED BY: JAMES ROBERTS
DRAWN BY: JAMES ROBERTS
CHECKED BY: MAZEN KASSAR
APPROVED BY: MAZEN KASSAR

THIS PLAN WAS ELECTRONICALLY SIGNED AND STAMPED.

REGISTERED PROFESSIONAL ENGINEER — MAZEN KASSAR — No. E 15809 — Exp. 12-31-22 — ELECTRICAL — STATE OF CALIFORNIA

NO.	REVISIONS:	DATE:	BY:

INDEX NO.
BUILDING NO.

ENGINEERING — CITY OF LOS ANGELES

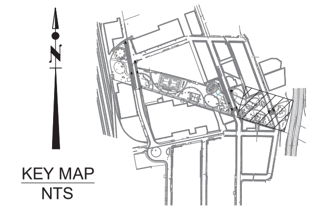
WORK ORDER NO. E700235D
FILE NO. --
DRAWING NO. E-106
SHEET 171 OF 295 SHEETS

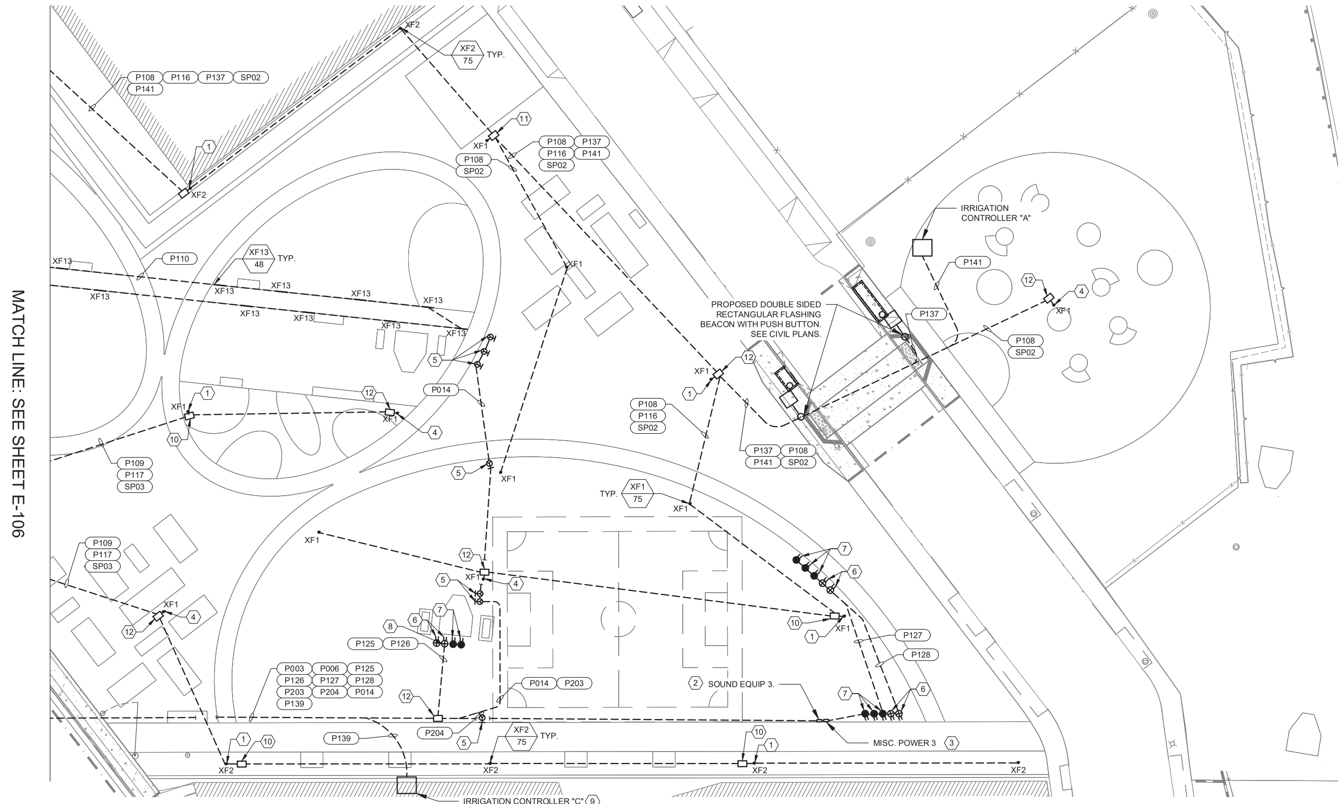
BID SET - NOT FOR CONSTRUCTION

7/11/2022 8:17:16 PM - O:\PROJECTS\IRVINE\20043\200-20043-17001\CAD\SHEETFILES\E-106 ELECTRICAL SITE PLAN IV.DWG - ROBERTS, JAMES1

REVISION DATES (DESIGN STAGE ONLY)

Sheet Version 3.0





1 EAST PARK SITE PLAN

CONSTRUCTION NOTES

1. PROVIDE A NEW WP GFCI RECEPTACLE MOUNTED ON THE POLE LIGHT
2. PROVIDE LOCKABLE 200A, 3P, 5W, NEMA 3R THEATRE POWER SWITCH. ENCLOSURE TO BE MOUNTED ON UNISTRUT. SEE SHEET E-503, DETAIL 1.
3. PROVIDE LOCKABLE 400A, 3P, 5W, NEMA 3R THEATRE POWER SWITCH. ENCLOSURE TO BE MOUNTED ON UNISTRUT. SEE SHEET E-503, DETAIL 1.
4. PROVIDE HAND HOLE ACCESS POINT ON TOP OF LIGHT POLE AND BURIED ELECTRICAL BOX AT BASE OF LIGHT POLE. SPARE CONDUIT SHALL STUB UP AT BURIED ELECTRICAL BOX, 24"X36"X24" AT BASE OF LIGHT POLE. FOR ELEVATION DETAIL SEE SHEET E-501, DETAIL 6.
5. PROVIDE LOCKABLE, PEDESTAL MOUNTED, WEATHER PROOF, 30A, 3P, 5W PIN & SLEEVE-SWITCHED RECEPTACLES. SEE SHEET E-502, DETAIL 1.
6. PROVIDE LOCKABLE, PEDESTAL MOUNTED, WEATHERPROOF, 20A QUAD RECEPTACLES. SEE SHEET E-502, DETAIL 1.
7. PROVIDE LOCKABLE, PEDESTAL MOUNTED, WEATHERPROOF, 20A QUAD RECEPTACLES WITH ISOLATED GROUND. SEE SHEET E-502, DETAIL 1.
8. EQUIPMENT TO MAINTAIN A MINIMUM CLEARANCE OF 30" FROM THE BENT
9. REFER TO IRRIGATION PLANS FOR CONTINUATION.
10. 17"X11"X12" PULL BOX.
11. 24"X24"X12" PULL BOX.
12. 24"X36"X24" PULL BOX.

LEGEND:

- QUAD RECEPTACLE
- 30A, 3P, 5W PIN & SLEEVE RECEPTACLE
- QUAD RECEPTACLE WITH ISOLATED GROUND
- POLE MOUNTED LIGHT- XF1, XF2
- ARM MOUNTED PATH LIGHT- XF13

SCALE: 1"=20'

PLANS PREPARED BY:
TETRA TECH, INC.
707 WILSHIRE BLVD, 23RD FLR.
LOS ANGELES, CA 90017
PHONE: (213) 239-8866

CITY OF LOS ANGELES — DEPARTMENT OF PUBLIC WORKS — BUREAU OF ENGINEERING

VERT. CONTROL: BM 12-04070, 1929 (NGVD29) - 1985 ADJUSTMENT
HORIZ. CONTROL: GPS, PID AE 1704, EPOCH 1991.35

SHEET TITLE: ELECTRICAL SITE PLAN V
PROJECT: SIXTH STREET PARK, ARTS AND RIVER CONNECTIVITY IMPROVEMENTS (PARC)
ADDRESS: SIXTH STREET OVER THE LOS ANGELES RIVER

GARY LEE MOORE, P.E., ENV SP — CITY ENGINEER
DESIGN GROUP — LIC. NO. E-15809 — DATE: 07/11/22
ENGINEER:
DESIGNED BY: JAMES ROBERTS
DRAWN BY: JAMES ROBERTS
CHECKED BY: MAZEN KASSAR
APPROVED BY: MAZEN KASSAR

THIS PLAN WAS ELECTRONICALLY SIGNED AND STAMPED.
REGISTERED PROFESSIONAL ENGINEER — MAZEN KASSAR — No. E 15809 — Exp. 12-31-22 — ELECTRICAL — STATE OF CALIFORNIA

NO. | REVISIONS: | DATE: | BY:
INDEX NO.
BUILDING NO.
ENGINEERING — CITY OF LOS ANGELES

WORK ORDER NO. E700235D
FILE NO. --
DRAWING NO. E-107
SHEET 172 OF 295 SHEETS

7/11/2022 8:18:22 PM - O:\PROJECTS\IRVINE\20043\200-20043-17001\CAD\SHEETFILES\E-107 ELECTRICAL SITE PLAN V.DWG - ROBERTS, JAMES1

REVISION DATES (DESIGN STAGE ONLY)
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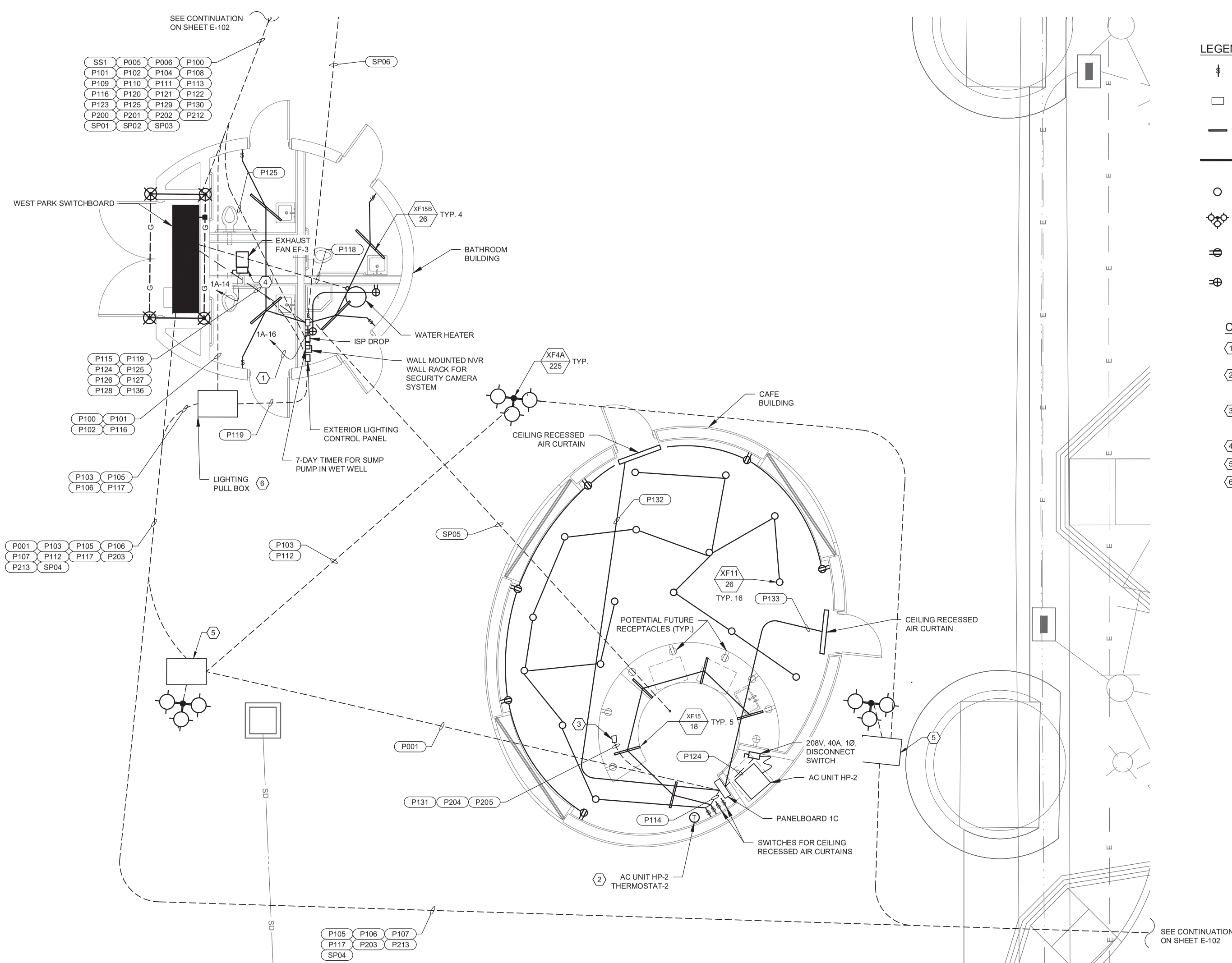

1 WEST PARK BUILDING ELECTRICAL PLAN

LEGEND:

- LIGHT SWITCH
- HAND HOLE OR PULL BOX
- STRIP LIGHT- XF15
- STRIP LIGHT- XF15B
- LED DOWNLIGHT- XF11
- POLE WITH 6 ACCENT LIGHTS- XF4A
- DUPLEX RECEPTACLE
- QUAD RECEPTACLE

CONSTRUCTION NOTES

1. 3/4"C, 2#12+1#12GND.
2. CONTRACTOR TO PROVIDE AND INSTALL THERMOSTAT WITH MULTI-CONDUCTOR CABLE AND CONNECT TO AC UNIT. REFER TO SHEET E-405 CONDUIT C-100 FOR DETAIL.
3. PROVIDE CONDUIT STUB-UPS FOR POTENTIAL FUTURE RECEPTACLES AND POINT OF USE ELECTRIC WATER HEATER INTEGRATED INTO FUTURE COUNTER MILLWORK.
4. 120V, 20A, 1Ø, NEMA 3R DISCONNECT SWITCH
5. 17"X11"X12" PULL BOX.
6. 24"X36"X24" PULL BOX.

SCALE: 1/4" = 1'-0"

REVISION DATES (DESIGN STAGE ONLY)

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PLANS PREPARED BY:

TETRA TECH, INC.
707 WILSHIRE BLVD. 23RD FLR.
LOS ANGELES, CA 90017
PHONE: (213) 239-8866

CITY OF LOS ANGELES — DEPARTMENT OF PUBLIC WORKS — BUREAU OF ENGINEERING

VERT. CONTROL: BM 12-04070, 1929 (NGVD29) - 1985 ADJUSTMENT
HORIZ. CONTROL: GPS, PID AE 1704, EPOCH 1991.35

SHEET TITLE: WEST PARK BUILDING ELECTRICAL PLAN
PROJECT: SIXTH STREET PARK, ARTS AND RIVER CONNECTIVITY IMPROVEMENTS (PARC)
ADDRESS: SIXTH STREET OVER THE LOS ANGELES RIVER

WORK ORDER NO. E700235D
FILE NO. --
DRAWING NO. E-108
SHEET 173 OF 295 SHEETS

GARY LEE MOORE, P.E., ENV SP — CITY ENGINEER
DESIGN GROUP — LIC. NO. E-15809 — DATE: 07/11/22
ENGINEER:
DESIGNED BY: JAMES ROBERTS
DRAWN BY: JAMES ROBERTS
CHECKED BY: MAZEN KASSAR
APPROVED BY: MAZEN KASSAR

THIS PLAN WAS ELECTRONICALLY SIGNED AND STAMPED

REGISTERED PROFESSIONAL ENGINEER — MAZEN KASSAR — No. E 15809 — Exp. 12-31-22 — ELECTRICAL — STATE OF CALIFORNIA

NO. | REVISIONS: | DATE | BY:

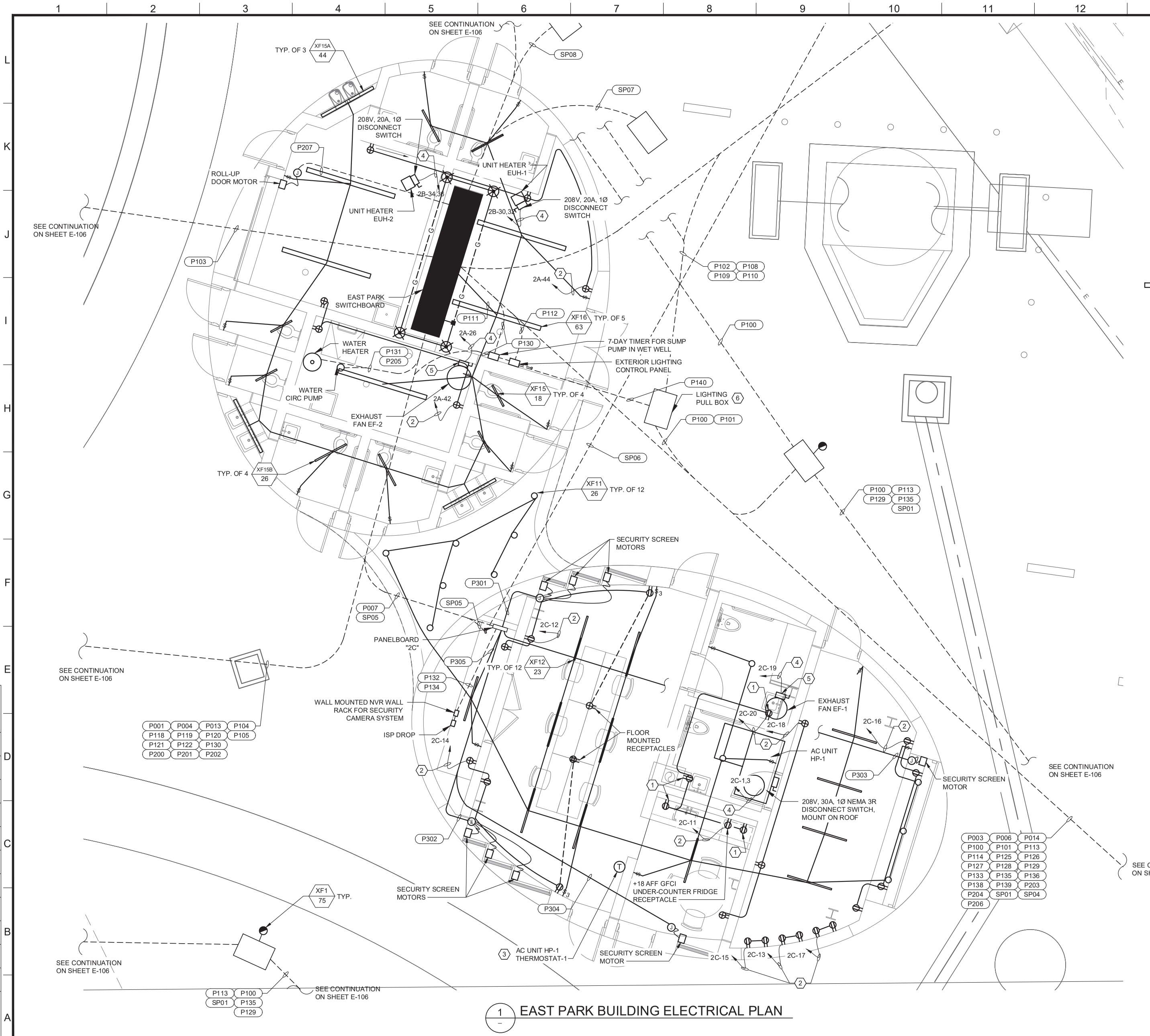
INDEX NO.

BUILDING NO.

ENGINEERING — CITY OF LOS ANGELES

7/11/2022 8:19:46 PM - O:\PROJECTS\IRVINE\20043\200-20043-17001\CAD\SHEETFILES\E-108 WEST PARK BUILDING ELECTRICAL PLAN.DWG - ROBERTS, JAMES1

BID SET - NOT FOR CONSTRUCTION



1 EAST PARK BUILDING ELECTRICAL PLAN

LEGEND:

- POLE MOUNTED LIGHT- XF1
- DUPLEX RECEPTACLE
- QUAD RECEPTACLE
- DISCONNECT SWITCH
- LIGHT SWITCH (3 = 3-WAY SWITCH)
- STRIP LIGHT- XF15
- STRIP LIGHT- XF15B
- STRIP LIGHT- XF12
- STRIP LIGHT- XF16
- EXTERIOR STRIP LIGHT- XF15A
- LED DOWNLIGHT- XF11

CONSTRUCTION NOTES

1. PROVIDE A GFCI RECEPTACLE MOUNTED AT +42" AFF.
2. 3/4"C, 2#12+1#12GND.
3. CONTRACTOR TO PROVIDE AND INSTALL THERMOSTAT WITH MULTI-CONDUCTOR CABLE AND CONNECT TO AC UNIT. REFER TO SHEET E-406 CONDUIT C-100 FOR DETAIL.
4. 3/4"C, 2#10+1#12GND.
5. 120V, 20A, 1Ø NEMA 3R DISCONNECT SWITCH, MOUNT ON ROOF
6. 24"X24"X12" PULL BOX.
7. 24"X36"X24" PULL BOX.

SCALE: 1/4" = 1'-0"

PLANS PREPARED BY:
TETRA TECH, INC.
707 WILSHIRE BLVD, 23RD FLR.
LOS ANGELES, CA 90017
PHONE: (213) 239-8866

CITY OF LOS ANGELES
DEPARTMENT OF PUBLIC WORKS
BUREAU OF ENGINEERING

VERT. CONTROL: BM 12-04070, 1929 (NGVD29) - 1985 ADJUSTMENT
HORIZ. CONTROL: GPS, PID AE 1704, EPOCH 1991.35

SHEET TITLE: EAST PARK BUILDING ELECTRICAL PLAN
PROJECT: SIXTH STREET PARK, ARTS AND RIVER CONNECTIVITY IMPROVEMENTS (PARC)
ADDRESS: SIXTH STREET OVER THE LOS ANGELES RIVER

GARY LEE MOORE, P.E., ENV SP — CITY ENGINEER
DESIGN GROUP
ENGINEER: LIC. NO. E-15809 DATE: 07/11/22
DESIGNED BY: JAMES ROBERTS
DRAWN BY: JAMES ROBERTS
CHECKED BY: MAZEN KASSAR
APPROVED BY: MAZEN KASSAR

THIS PLAN WAS ELECTRONICALLY SIGNED AND STAMPED.

REGISTERED PROFESSIONAL ENGINEER — MAZEN KASSAR — No. E 15809 — Exp. 12-31-22 — ELECTRICAL — STATE OF CALIFORNIA

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INDEX NO.
BUILDING NO.

ENGINEERING — CITY OF LOS ANGELES

WORK ORDER NO. E700235D
FILE NO. --
DRAWING NO. E-109
SHEET 174 OF 295 SHEETS

7/11/2022 8:21:26 PM - O:\PROJECTS\IRVINE\20043\200-20043-17001\CAD\SHEETFILES\E-109 EAST PARK BUILDING ELECTRICAL PLAN.DWG - ROBERTS, JAMES1

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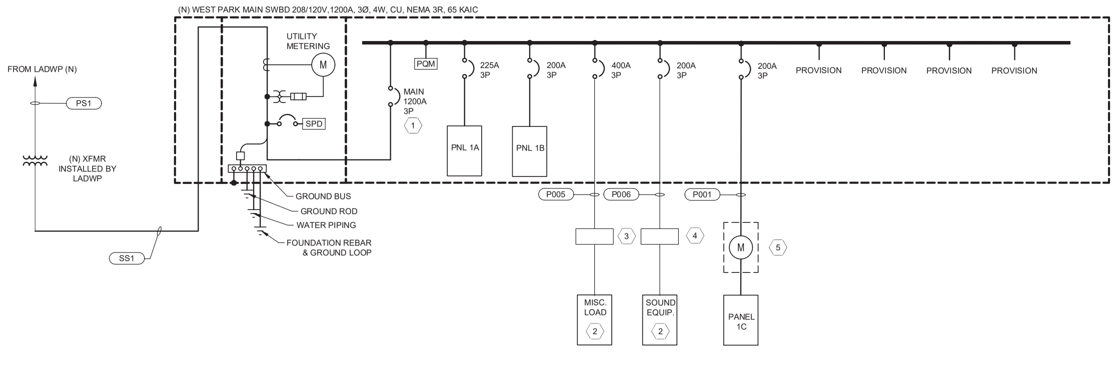
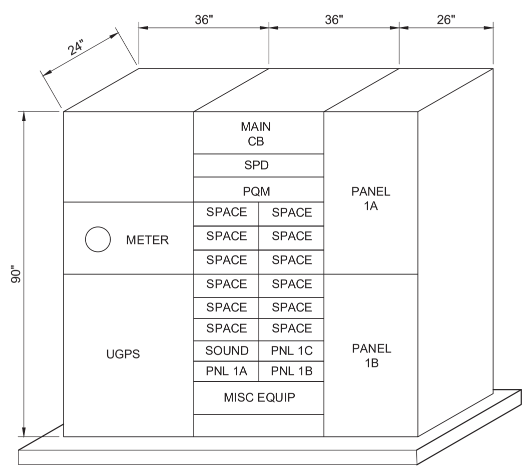


1 – WEST PARK SINGLE LINE DIAGRAM
NTS

LOAD SCHEDULE		
NAME	KVA	FLA
PANEL 1A	43.47	120.7
PANEL 1B	18.82	52.2
PANEL 1C	27.75	77.0
MISC. LOAD	115.3	320.0
SOUND EQUIP.	57.64	160.0
TOTAL	263	730

NOTES:

1. INSTALL ARCFLASH REDUCTION MAINTENANCE SWITCH.
2. TEMPORARY SOUND AND LIGHTING EQUIPMENT TO BE PROVIDED BY OTHERS DURING EVENTS.
3. INSTALL LOCKABLE 400A, 3P, 5W, NEMA 3R THEATRE POWER SWITCH.
4. INSTALL LOCKABLE 200A, 3P, 5W, NEMA 3R THEATRE POWER SWITCH.
5. KWH METER FOR METERING OF PANELBOARD 1C ONLY.



2 – WEST PARK SWITCHBOARD ELEVATION
NTS

PLANS PREPARED BY:
TETRA TECH, INC.
707 WILSHIRE BLVD. 23RD FLR.
LOS ANGELES, CA 90017
PHONE: (213) 239-8866

CITY OF LOS ANGELES — DEPARTMENT OF PUBLIC WORKS — BUREAU OF ENGINEERING

VERT. CONTROL: BM 12-04070, 1929 (NGVD29) - 1985 ADJUSTMENT
HORIZ. CONTROL: GPS, PID AE 1704, EPOCH 1991.35

SHEET TITLE: WEST PARK SINGLE LINE DIAGRAM
PROJECT: SIXTH STREET PARK, ARTS AND RIVER CONNECTIVITY IMPROVEMENTS (PARC)
ADDRESS: SIXTH STREET OVER THE LOS ANGELES RIVER

GARY LEE MOORE, P.E., ENV SP — CITY ENGINEER
DESIGN GROUP
ENGINEER: LIC. NO. E-15809 DATE: 07/11/22
DESIGNED BY: JAMES ROBERTS
DRAWN BY: JAMES ROBERTS
CHECKED BY: MAZEN KASSAR
APPROVED BY: MAZEN KASSAR

THIS PLAN WAS ELECTRONICALLY SIGNED AND STAMPED.

REGISTERED PROFESSIONAL ENGINEER — MAZEN KASSAR — No. E 15809 — Exp. 12-31-22 — ELECTRICAL — STATE OF CALIFORNIA

NO. | REVISIONS: | DATE: | BY:

INDEX NO.

BUILDING NO.

ENGINEERING — CITY OF LOS ANGELES

WORK ORDER NO. E700235D
FILE NO. --
DRAWING NO. E-401
SHEET 175 OF 295 SHEETS

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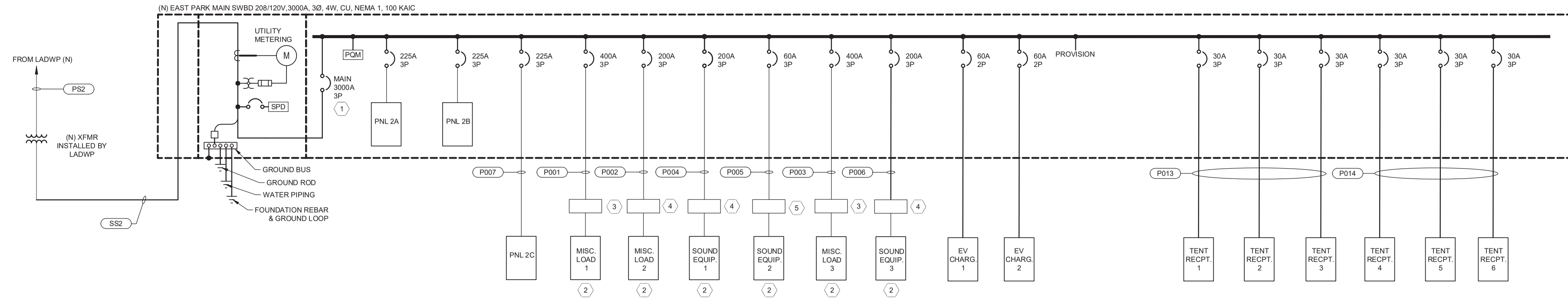
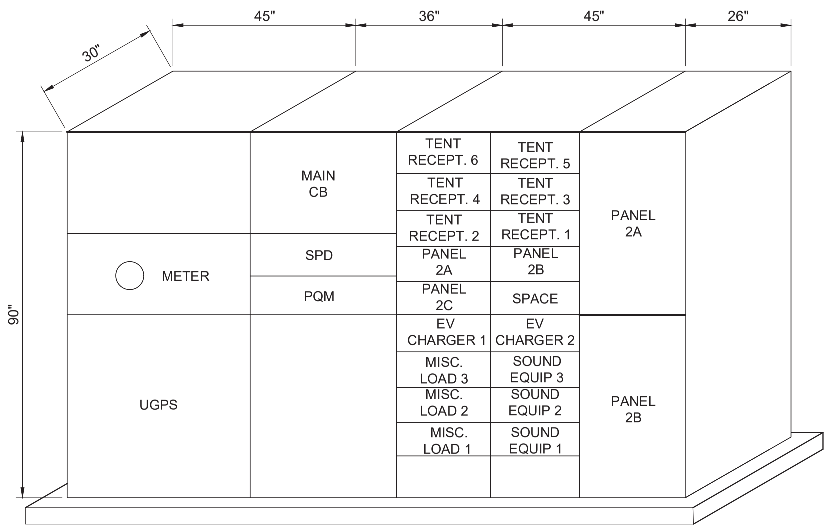


1 — EAST PARK SINGLE LINE DIAGRAM
NTS



2 — EAST PARK SWITCHBOARD ELEVATION
NTS

LOAD SCHEDULE		
NAME	KVA	FLA
PANEL 2A	50.12	139.1
PANEL 2B	39.49	109.6
PANEL 2C	24.98	69.3
MISC. LOAD 1	115.3	320.0
MISC. LOAD 2	115.3	320.0
SOUND EQUIP. 1	57.64	160.0
SOUND EQUIP. 2	57.64	160.0
MISC. LOAD 3	57.64	160.0
SOUND EQUIP. 3	17.29	48.0
EV CHARGING STATION 1	6.66	18.5
EV CHARGING STATION 2	6.66	18.5
TENT RECPT. 1	8.65	24.0
TENT RECPT. 2	8.65	24.0
TENT RECPT. 3	8.65	24.0
TENT RECPT. 4	8.65	24.0
TENT RECPT. 5	8.65	24.0
TENT RECPT. 6	8.65	24.0
TOTAL	601	1667

NOTES:

1. INCLUDE ARC FLASH REDUCTION MAINTENANCE SWITCH
2. TEMPORARY SOUND AND LIGHTING EQUIPMENT TO BE PROVIDED BY OTHERS DURING EVENTS
3. INSTALL LOCKABLE 400A, 3P, 5W, NEMA 3R THEATRE POWER SWITCH
4. INSTALL LOCKABLE 200A, 3P, 5W, NEMA 3R THEATRE POWER SWITCH
5. INSTALL LOCKABLE 60A, 3P, 5W, NEMA 3R THEATRE EQUIPMENT SWITCH

REVISION DATES (DESIGN STAGE ONLY)

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PLANS PREPARED BY:
TETRA TECH, INC.
707 WILSHIRE BLVD. 23RD FLR.
LOS ANGELES, CA 90017
PHONE: (213) 239-8866

CITY OF LOS ANGELES — DEPARTMENT OF PUBLIC WORKS — BUREAU OF ENGINEERING

VERT. CONTROL: BM 12-04070, 1929 (NGVD29) - 1985 ADJUSTMENT
HORIZ. CONTROL: GPS, PID AE 1704, EPOCH 1991.35

SHEET TITLE: EAST PARK SINGLE LINE DIAGRAM
PROJECT: SIXTH STREET PARK, ARTS AND RIVER CONNECTIVITY IMPROVEMENTS (PARC)
ADDRESS: SIXTH STREET OVER THE LOS ANGELES RIVER

GARY LEE MOORE, P.E., ENV SP — CITY ENGINEER
DESIGN GROUP
ENGINEER: — LIC. NO. E-15809 — DATE: 07/11/22
DESIGNED BY: JAMES ROBERTS
DRAWN BY: JAMES ROBERTS
CHECKED BY: MAZEN KASSAR
APPROVED BY: MAZEN KASSAR

THIS PLAN WAS ELECTRONICALLY SIGNED AND STAMPED

REGISTERED PROFESSIONAL ENGINEER MAZEN KASSAR No. E 15809 Exp. 12-31-22 ELECTRICAL STATE OF CALIFORNIA

NO. | REVISIONS: | DATE | BY:

INDEX NO.

BUILDING NO.

ENGINEERING CITY OF LOS ANGELES

WORK ORDER NO. E700235D
FILE NO. --
DRAWING NO. E-402
SHEET 176 OF 295 SHEETS

7/11/2022 8:22:16 PM - O:\PROJECTS\IRVINE\20043\200-20043-17001\CAD\SHEETFILES\E-402 SINGLE LINE DIAGRAM EAST PARK.DWG - ROBERTS, JAMES1

BID SET - NOT FOR CONSTRUCTION

Panel: 1A | 3 Phase | 4 Wire | Volts: 208Y/120 | Location: WEST SWBD | Enclosure: NEMA 3R | Mounting: SWBD | Main: MLO | Bus: 225A | SCCR: 65 kA

Description	VA A	VA B	VA C	LTG	REC	Misc	Breaker Amp	Pole	Circuit	Circuit	Pole	Breaker Amp	LTG	REC	Misc	VA A	VA B	VA C	Description
LIGHT XF1/XF1A	750			10			20	1	1	2	1	20	8			600			LIGHT XF2
LIGHT XF4/XF4A		1,800		8			20	1	3	4	1	20	36				1,440		LIGHT XF6
LIGHT XF4			2,250	10			30	1	5	6	1	20	36					1,440	LIGHT XF6
LIGHT XF7	2,610			2			30	1	7	8	1	20			1	1,500			SECURITY OUTLET
LIGHT XF8		1,442		2			20	1	9	10	1	20			1		750		SECURITY OUTLET
LIGHT XF8			1,442	2			20	1	11	12	1	20							SPARE
LIGHT XF9	2,760			1			30	1	13	14	1	20			1	528			EXHAUST FAN EF-3
LIGHTING CONTROLS		1,200				1	20	1	15	16	1	20		2			720		RESTROOM BLDG REC
LIGHT XF13			1,152	24			20	1	17	18									SPACE
ISP DROP	500					1	20	1	19	20	1	20		4		720			POLE LTG REC
LIGHT XF14		48		30			20	1	21	22	1	20		5			900		POLE LTG REC
ART PLAZA ISO QUAD REC			1,440		4		20	1	23	24	1	20		2				360	POLE LTG REC
ART PLAZA ISO QUAD REC	1,440				4		20	1	25	26	1	20		3		540			POLE LTG REC
BATHROOM BLDG LGT.		203		7			20	1	27	28	1	20		2			360		POLE LTG REC
SPARE							20	1	29	30	1	20		3				1,080	ART PLAZA QUAD REC
WET WELL SUMP PUMP	864					1	20	1	31	32	1	20		3		1,080			ART PLAZA QUAD REC
SPACE									33	34	1	20			1		600		IRRIGATION CONTROLLER "G"
SPACE									35	36	1	20			1			1,200	ART LIGHTING
HIGH RIVER WARNING SYSTEM CONTROL CABINET	4,152					1	30	1	37	38	1	20			1	600			IRRIGATION CONTROLLER "F"
HIGH RIVER WARNING SYSTEM CONTROL CABINET		500				1	30	1	39	40	2	30			1		2,250		WATER HEATER
									41	42								2,250	
	13,076	5,193	6,284	VOLT-AMPS SUBTOTAL												5,568	7,020	6,330	

	A	B	C		
LCL:				Panel Volt-Amps =	43,471
Total Volt-Amps:	18,644	12,213	12,614	FLA =	121 A @208V

Panel: 1C | 3 Phase | 4 Wire | Volts: 208Y/120 | Location: CAFÉ BUILDING | Enclosure: NEMA 1 | Mounting: WALL MOUNTED | Main: 200A | Bus: 200A | SCCR: 65 kA

Description	VA A	VA B	VA C	LTG	REC	Misc	Breaker Amp	Pole	Circuit	Circuit	Pole	Breaker Amp	LTG	REC	Misc	VA A	VA B	VA C	Description
CAFÉ BLDG LGT.	561			21			20	1	1	2	1	20		6		1,080			CAFÉ BLDG REC
CEILING AIR CURTAIN		1,176				1	20	1	3	4	1	20					3,000		CAFÉ BLDG WATER HEATER - FUTURE
CEILING AIR CURTAIN			1,176			1	20	1	5	6								3,000	
CAFÉ RECPT. - FUTURE APPLIANCE	1,500					1	20	1	7	8	1	20			1	1,500			CAFÉ RECPT. - FUTURE APPLIANCE
CAFÉ RECPT. - FUTURE APPLIANCE		1,500				1	20	1	9	10	1	20			1		1,500		CAFÉ RECPT. - FUTURE APPLIANCE
CAFÉ RECPT. - FUTURE APPLIANCE			1,500			1	20	1	11	12	1	20			1			1,500	CAFÉ RECPT. - FUTURE APPLIANCE
CAFÉ RECPT. - FUTURE APPLIANCE	1,500					1	20	1	13	14	1	20			1	1,500			CAFÉ RECPT. - FUTURE APPLIANCE
CAFÉ BUILDING AC UNIT		5,760				1	40	1	15	16									
									17	18									
									19	20									
									21	22									
									23	24									
									25	26									
									27	28									
									29	30									
									31	32									
									33	34									
									35	36									
									37	38									
									39	40									
									41	42									
	3,561	8,436	2,676	VOLT-AMPS SUBTOTAL												4,080	4,500	4,500	

	A	B	C		
LCL:				Panel Volt-Amps =	27,753
Total Volt-Amps:	7,641	12,936	7,176	FLA =	77 A @208V

Panel: 1B | 3 Phase | 4 Wire | Volts: 208Y/120 | Location: WEST SWBD | Enclosure: NEMA 3R | Mounting: SWBD | Main: MLO | Bus: 200A | SCCR: 65 kA

Description	VA A	VA B	VA C	LTG	REC	Misc	Breaker Amp	Pole	Circuit	Circuit	Pole	Breaker Amp	LTG	REC	Misc	VA A	VA B	VA C	Description
TEMP EQUIP REC	624				1		30	3	1	2	3	30		1		624			TENT REC
		624							3	4							624		
			624						5	6								624	
TEMP EQUIP REC	624				1		30	3	7	8	3	30		1		624			TENT REC
		624							9	10							624		
			624						11	12								624	
TEMP EQUIP REC	624				1		30	3	13	14	3	30		1		624			TENT REC
		624							15	16							624		
			624						17	18								624	
TEMP EQUIP REC	624				1		30	3	19	20	3	30		1		624			TENT REC
		624							21	22							624		
			624						23	24								624	
STAGE LIGHTING CONTROLS	1,920					1	20	1	25	26									
TERRACE LIGHTING CONTROLS		1,920				1	20	1	27	28									
									29	30									
									31	32									
									33	34									
									35	36									
									37	38									
									39	40									
									41	42									
	4,416	4,416	2,496	VOLT-AMPS SUBTOTAL												2,496	2,496	2,496	

	A	B	C		
LCL:				Panel Volt-Amps =	18,816
Total Volt-Amps:	6,912	6,912	4,992	FLA =	52 A @208V

REVISION DATES (DESIGN STAGE ONLY)

Sheet Version 3.0

PLANS PREPARED BY:

TETRA TECH, INC.
707 WILSHIRE BLVD, 23RD FLR.
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PHONE: (213) 239-8866

CITY OF LOS ANGELES DEPARTMENT OF PUBLIC WORKS BUREAU OF ENGINEERING

VERT. CONTROL: BM 12-04070, 1929 (NGVD29) - 1985 ADJUSTMENT
HORIZ. CONTROL: GPS; PID AE 1704, EPOCH 1991.35

SHEET TITLE: WEST PARK PANEL SCHEDULES
PROJECT: SIXTH STREET PARK, ARTS AND RIVER CONNECTIVITY IMPROVEMENTS (PARC)
ADDRESS: SIXTH STREET OVER THE LOS ANGELES RIVER

GARY LEE MOORE, P.E., ENV SP — CITY ENGINEER
DESIGN GROUP
ENGINEER: LIC. NO. E-15809 DATE: 07/11/22
DESIGNED BY: JAMES ROBERTS
DRAWN BY: JAMES ROBERTS
CHECKED BY: MAZEN KASSAR
APPROVED BY: MAZEN KASSAR

THIS PLAN WAS ELECTRONICALLY SIGNED AND STAMPED

REGISTERED PROFESSIONAL ENGINEER MAZEN KASSAR No. E 15809 Exp. 12-31-22 ELECTRICAL STATE OF CALIFORNIA

NO.	REVISIONS:	DATE	BY:

INDEX NO.

BUILDING NO.

ENGINEERING CITY OF LOS ANGELES

WORK ORDER NO. E700235D
FILE NO. --
DRAWING NO. E-403
SHEET 177 OF 295 SHEETS

7/11/2022 8:22:46 PM - O:\PROJECTS\IRVINE\20043\200-20043-17001\CAD\SHEETFILES\E-403 PANEL SCHEDULE I.DWG - ROBERTS, JAMES1

BID SET - NOT FOR CONSTRUCTION

Panel: 2A | Volts: 208Y/120 | 3 Phase | 4 Wire | Location: EAST SWBD | Enclosure: NEMA 1 | Mounting: SWBD | Main: MLO | Bus: 225A | SCCR: 65 kA

Description	Volt-Amps A	Volt-Amps B	Volt-Amps C	LTG	REC	Misc	Breaker Amp	Pole	Circuit	Circuit	Pole	Breaker Amp	LTG	REC	Misc	Volt-Amps A	Volt-Amps B	Volt-Amps C	Description
LIGHT XF1, XF2 & XF4A	2,175			25			30	1	1	2	1	20	21			1,278			LIGHT XF2 & XF13
LIGHT XF10		3,200		1			40	1	3	4	1	20	10				750		LIGHT XF2
LIGHT XF10			3,200	1			40	1	5	6	1	50	1					500	SPORTS LTG CONTROLS
LIGHT XF10	3,200			1			40	1	7	8	1	50	2			400			PED CROSSWALK RRFB 1
LIGHT XF10		3,200		1			40	1	9	10	1	50	2				400		PED CROSSWALK RRFB 2
LIGHT XF1 & XF2			825	11			20	1	11	12	1	20	18					864	LIGHT XF13
SPACE									13	14	1	20	13			975			LIGHT XF1 & XF2
SPACE									15	16	1	50	2				400		PED CROSSWALK RRFB 3
LIGHT XF10A			1,515	1			20	1	17	18	1	20			1			600	IRRIGATION CONTROLLER "E"
LIGHT XF10A	1,515			1			20	1	19	20	1	50	8			1,200			HISTORIC LIGHTING
LIGHT - NORTH BUILDING		982		21			20	1	21	22	1	20		4			720		POLE LIGHT REC
POLE LIGHT REC			720		4		20	1	23	24	1	20		4				720	POLE LIGHT REC
POLE LIGHT REC	720				4		20	1	25	26	1	20		4		1,440			SMALL STAGE ISO REC
POLE LIGHT REC		720			4		20	1	27	28	1	20		3			1,080		SMALL STAGE ISO REC
LARGE STAGE 1 ISO REC			1,080		3		20	1	29	30	1	20		2				720	SMALL STAGE REC
LARGE STAGE 1 ISO REC	1,080				3		20	1	31	32	1	20		3		1,080			LARGE STAGE 2 ISO. REC
LARGE STAGE 1 ISO REC		720			2		20	1	33	34	1	20		3			1,080		LARGE STAGE 2 ISO. REC
LARGE STAGE 1 REC			1,440		4		20	1	35	36	1	20		2				720	LARGE STAGE 2 ISO. REC
LARGE STAGE 1 REC	720				2		20	1	37	38	1	20		4		1,440			LARGE STAGE 2 REC
SPACE									39	40	1	20		2			720		LARGE STAGE 2 REC
SPACE									41	42	1	20		3				1,080	RECPT. - NORTH BLDG
ART LIGHTING	600			1			20	1	43	44	1	20		3		1,080			RECPT. - NORTH BLDG
WET WELL SUMP PUMP		864				1	20	1	45	46	1	20			1		600		WATER CIRC PUMP
IRRIGATION CONTROLLER "A"			600			1	20	1	47	48	1	20			1			600	IRRIGATION CONTROLLER "C"
									49	50	1	20			1	600			IRRIGATION CONTROLLER "D"
									51	52									
									53	54									
VOLT-AMPS SUBTOTAL	10,010	9,686	9,380													9,493	5,750	5,804	

	A	B	C
LCL:			
Total Volt-Amps:	19,503	15,436	15,184

Panel Volt-Amps = 50,123
FLA = 139 A @208V

Panel: 2B | Volts: 208Y/120 | 3 Phase | 4 Wire | Location: EAST SWBD | Enclosure: NEMA 1 | Mounting: SWBD | Main: MLO | Bus: 225A | SCCR: 65 kA

Description	Volt-Amps A	Volt-Amps B	Volt-Amps C	LTG	REC	Misc	Breaker Amp	Pole	Circuit	Circuit	Pole	Breaker Amp	LTG	REC	Misc	Volt-Amps A	Volt-Amps B	Volt-Amps C	Description
LARGE STAGE 1 DED. REC	624				1		30	3	1	2	3	30		1		624			LARGE STAGE 2 DED. REC
		624							3	4							624		
			624						5	6								624	
LARGE STAGE 1 DED. REC	624				1		30	3	7	8	3	30		1		624			LARGE STAGE 2 DED. REC
		624							9	10							624		
			624						11	12								624	
LARGE STAGE 1 DED. REC	624				1		30	3	13	14	3	30		1		624			LARGE STAGE 2 DED. REC
		624							15	16							624		
			624						17	18								624	
LARGE STAGE 1 DED. REC	624				1		30	3	19	20	3	30		1		624			LARGE STAGE 2 DED. REC
		624							21	22							624		
			624						23	24								624	
SMALL STAGE DED. REC	624				1		30	3	25	26	1	20			1	696			EXHAUST FAN EF-2
		624							27	28	1	20			1		864		MOTORIZED ROLL-UP DOOR
			624						29	30	2	20			1			1,500	UNIT HEATER EUH-1
SMALL STAGE DED. REC	624				1		30	3	31	32						1,500			
		624							33	34	2	20			1		1,500		UNIT HEATER EUH-2
			624						35	36								1,500	
WATER HEATER	2,250					1	30	2	37	38	2	60			1				EV CHARGING STATION 5 - FUTURE
		2,250							39	40									
MISTING PAD PUMP			2,903			1	40	3	41	42									
	2,903								43	44									
		2,903							45	46									
EV CHARGING STATION 3 - FUTURE						1	60	2	47	48									
									49	50									
EV CHARGING STATION 3 - FUTURE						1	60	2	51	52									
									53	54									
VOLT-AMPS SUBTOTAL	8,897	8,897	6,647													4,692	4,860	5,496	

	A	B	C
LCL:			
Total Volt-Amps:	13,589	13,757	12,143

Panel Volt-Amps = 39,489
FLA = 110 A @208V

Panel: 2C | Volts: 208Y/120 | 3 Phase | 4 Wire | Location: EAST BUILDING | Enclosure: NEMA 1 | Mounting: WALL | Main: 225A | Bus: 225A | SCCR: 65 kA

Description	Volt-Amps A	Volt-Amps B	Volt-Amps C	LTG	REC	Misc	Breaker Amp	Pole	Circuit	Circuit	Pole	Breaker Amp	LTG	REC	Misc	Volt-Amps A	Volt-Amps B	Volt-Amps C	Description
A/C UNIT HP-1	2,184					1	30	2	1	2	1	20			1	864			MOTORIZED SECURITY SCREENS
		2,184							3	4	1	20			1		864		MOTORIZED SECURITY SCREENS
MOTORIZED SECURITY SCREENS			864			1	20	1	5	6	1	20			1			864	MOTORIZED SECURITY SCREENS
MOTORIZED SECURITY SCREENS	864					1	20	1	7	8	1	20			1	864			MOTORIZED SECURITY SCREENS
MOTORIZED SECURITY SCREENS		864				1	20	1	9	10	1	20			1		864		MOTORIZED SECURITY SCREENS
RECPT.-REFRIGERATOR			1,200		1		20	1	11	12	1	20		4				1,080	RECPT. - SOUTH BUILDING
RECPT.-REFRIGERATOR	1,200				2		20	1	13	14	1	20		4		1,080			RECPT. - SOUTH BUILDING
RECPT.-FREEZE		1,200			2		20	1	15	16	1	20		4			720		RECPT. - SOUTH BUILDING
RECPT.-MICROWAVE			1,500		2		20	1	17	18	1	20		3				1,080	RECPT. - SOUTH BUILDING
EXHAUST FAN EF-1	528					1	20	1	19	20	1	20		4		720			RECPT. - SOUTH BUILDING
LIGHT- SOUTH BUILDING		637		25			20	1	21	22	1	20			1		500		ISP DROP
SECURITY OUTLET			1,500			1	20	1	23	24									
SECURITY OUTLET	750					1	20	1	25	26									
									27	28									
									29	30									
									31	32									
									33	34									
									35	36									
									37	38									
									39	40									
									41	42									
VOLT-AMPS SUBTOTAL	5,526	4,885	5,064													3,528	2,948	3,024	

	A	B	C
LCL:			
Total Volt-Amps:	9,054	7,833	8,088

Panel Volt-Amps = 24,975
FLA = 69 A @208V

REVISION DATES (DESIGN STAGE ONLY)

Sheet Version 3.0

PLANS PREPARED BY:
TETRA TECH, INC.
707 WILSHIRE BLVD, 23RD FLR.
LOS ANGELES, CA 90017
PHONE: (213) 239-8866

CITY OF LOS ANGELES — DEPARTMENT OF PUBLIC WORKS — BUREAU OF ENGINEERING

VERT. CONTROL: BM 12-04070, 1929 (NGVD29) - 1985 ADJUSTMENT
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SHEET TITLE: EAST PARK PANEL SCHEDULES
PROJECT: SIXTH STREET PARK, ARTS AND RIVER CONNECTIVITY IMPROVEMENTS (PARC)
ADDRESS: SIXTH STREET OVER THE LOS ANGELES RIVER

GARY LEE MOORE, P.E., ENV SP — CITY ENGINEER
DESIGN GROUP
ENGINEER: LIC. NO. E-15809 DATE: 07/11/22
DESIGNED BY: JAMES ROBERTS
DRAWN BY: JAMES ROBERTS
CHECKED BY: MAZEN KASSAR
APPROVED BY: MAZEN KASSAR

THIS PLAN WAS ELECTRONICALLY SIGNED AND STAMPED

REGISTERED PROFESSIONAL ENGINEER — MAZEN KASSAR — No. E 15809 — Exp. 12-31-22 — ELECTRICAL — STATE OF CALIFORNIA

NO. | REVISIONS | DATE | BY

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WORK ORDER NO. E700235D
FILE NO. --
DRAWING NO. E-404
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7/11/2022 8:23:20 PM - O:\PROJECTS\IRVINE\20043\200-20043-17001\CAD\SHEETFILES\E-404 PANEL SCHEDULE II.DWG - ROBERTS, JAMES1

BID SET - NOT FOR CONSTRUCTION

WEST PARK CONDUIT SCHEDULE							
	CONDUIT		CONDUCTORS				
REF NO.	QTY	SIZE	QTY & SIZE	GND	FROM	TO	COMMENTS
PS1	2	5"	BY LADWP		POINT OF CONNECTION	LADWP XFMR	
SS1	3	4"	BY LADWP		LADWP XFMR	SWITCHBOARD	
P001	1	2.5"	3#4/0	1#3	SWITCHBOARD	PANEL 1C	
P002							NOT USED
P003							NOT USED
P004							NOT USED
P005	1	3"	4#250KCMIL	1#4	SWITCHBOARD	SOUND EQUIPMENT	
P006	2	3"	4#250KCMIL	1#2	SWITCHBOARD	PLAZA MISC. EQUIPMENT	
P100	1	2"	2#4	1#8	LIGHTING PULL BOX	LIGHTS XF1, XF1A	CKT 1
P101	1	2"	2#6	1#8	LIGHTING PULL BOX	LIGHTS XF2	CKT 2
P102	1	2"	2#4	1#8	LIGHTING PULL BOX	LIGHTS XF4, XF4A	CKT 3
P103	1	2"	2#4	1#8	LIGHTING PULL BOX	LIGHTS XF4, XF4A	CKT 5
P104	1	2"	2#1/0	1#6	PANEL 1A	LIGHTS XF9	CKT 13
P105	1	2"	2#2	1#6	LIGHTING PULL BOX	LIGHTS XF6	CKT 4
P106	1	2"	2#2	1#6	LIGHTING PULL BOX	LIGHTS XF6	CKT 6
P107	1	2"	2#2	1#6	PANEL 1A	LIGHTS XF7	CKT 7
P108	1	2"	4#1/0	2#6	PANEL 1A	LIGHTS XF8	CKT 9, 11
P109	1	2"	2#4	1#8	PANEL 1A	POLE LIGHT RECEPTACLES	CKT 20
P110	1	2"	2#6	1#8	PANEL 1A	POLE LIGHT RECEPTACLES	CKT 22
P111	1	2"	2#4	1#8	PANEL 1A	POLE LIGHT RECEPTACLES	CKT 24
P112	1	2"	2#4	1#8	PANEL 1A	POLE LIGHT RECEPTACLES	CKT 26
P113	1	2"	2#1/0	1#6	PANEL 1A	POLE LIGHT RECEPTACLES	CKT 28
P114	1	1"	2#12	1#12	PANEL 1C	LIGHTS - CAFÉ BUILDING	PNL 1C, CKT 1
P115	1	1"	2#12	1#12	PANEL 1A	LIGHTS - BATHROOM BUILDING	CKT 27
P116	1	2"	2#2	1#8	LIGHTING PULL BOX	LIGHTS XF13	CKT 17
P117	1	2"	2#12	1#12	LIGHTING PULL BOX	LIGHTS XF14	CKT 21
P118	1	1"	3#6	1#10	PANEL 1A	WATER HEATER	CKT 40, 42
P119	1	1"	4#12	2#12	PANEL 1A	SECURITY OUTLETS	CKT 8, 10
P120	1	2"	2#2	1#6	PANEL 1A	ART PLAZA ISO QUAD REC	CKT 23
P121	1	2"	2#2	1#6	PANEL 1A	ART PLAZA ISO QUAD REC	CKT 25
P122	1	2"	2#2	1#6	PANEL 1A	ART PLAZA QUAD REC	CKT 30
P123	1	2"	2#2	1#6	PANEL 1A	ART PLAZA QUAD REC	CKT 32
P124	1	1"	2#8	1#10	PANEL 1C	AC UNIT HP-2	PNL 1C, CKT 15
P125	1	2"	2#10	2#12	PANEL 1A	WET WELL	CKT 31
P126	1	1"	2#10	1#12	PANEL 1A	EXHAUST FAN EF-3	CKT 14
P127	1	1"	2#12	1#12	PANEL 1A	ISP DROP	CKT 19
P128	1	2"	2#2	1#6	PANEL 1A	LIGHTING CONTROLLER	CKT 15
P129	1	1"	2#10	1#12	PANEL 1A	IRRIGATION CONTROLLER "G"	CKT 34
P130	1	1"	2#10	1#12	PANEL 1A	IRRIGATION CONTROLLER "F"	CKT 38
P131	1	1" CO			PANEL 1C	CAFÉ BLDG WATER HEATER - FUTURE	WITH PULL STRING
P132	1	1"	2#12	1#12	PANEL 1C	CEILING AIR CURTAIN	PNL 1C, CKT 3
P133	1	1"	2#12	1#12	PANEL 1C	CEILING AIR CURTAIN	PNL 1C, CKT 5
P134	1	1"	2#12	1#12	PANEL 1C	CAFÉ BLDG RECEPTACLES	PNL 1C, CKT 2
P135	1	3"	4#2	2#6	PANEL 1A	HIGH RIVER WARNING SYSTEM CONTROL CABINETS	CKT 37, 39
P136	1	2"	16#10	8#12	PANEL 1A	EXTERIOR LIGHTING CONTROL PANEL	CKT 1, 2, 3, 4, 5, 6, 17, 21
P136	1	2"	16#10	8#12	EXTERIOR LIGHTING CONTROL PANEL	LIGHTING PULL BOX	CKT 1, 2, 3, 4, 5, 6, 17, 21
P200	1	3"	8#2	2#8	PANEL 1B	TEMP EQUIPMENT REC	PNL 1B, CKT 1, 3, 5, 7, 9, 11
P201	1	3"	8#2	2#8	PANEL 1B	TEMP EQUIPMENT REC	PNL 1B, CKT 13, 15, 17, 19, 21, 23
P202	1	2"	12#10	3#10	PANEL 1B	TENT REC	PNL 1B, CKT 2, 4, 6, 8, 10, 12, 14, 16, 18
P203	1	2"	4#6	1#8	PANEL 1B	TENT REC	PNL 1B, CKT 20, 22, 24
P204	1	1" CO			PANEL 1C	CAFÉ RECPTS. - FUTURE APPLIANCE	WITH PULL STRING, PNL 1C, CKT 7, 8, 9, 10
P205	1	1" CO			PANEL 1C	CAFÉ RECPTS. - FUTURE APPLIANCE	WITH PULL STRING, PNL 1C, CKT 11, 12, 13, 14
P212	1	2"	2#2	1#6	PANEL 1B	STAGE LIGHTING CONTROLS	PNL 1B, CKT 33
P213	1	2"	2#2	1#6	PANEL 1B	TERRACE LIGHTING CONTROLS	PNL 1B, CKT 34
C100	1	1"	8#14	1#14	AC UNIT HP-2	THERMOSTAT-2	MULTICONDUCTOR CABLE
D100	1	1"	1-CAT5E		STAGE LIGHTING CONTROLS	TERRACE LIGHTING CONTROLS	BELDEN #1583A
D101	1	1"	DMX CABLE		STAGE LIGHTING CONTROLS	LIGHT XF8	BELDEN #9729
D102	1	1"	DMX CABLE		STAGE LIGHTING CONTROLS	LIGHT XF8	BELDEN #9729
D103	1	1"	DMX CABLE		STAGE LIGHTING CONTROLS	LIGHT XF8	BELDEN #9729
D104	1	1"	DMX CABLE		STAGE LIGHTING CONTROLS	LIGHT XF8	BELDEN #9729
D105	1	1"	DMX CABLE		TERRACE LIGHTING CONTROLS	LIGHT XF7	BELDEN #9729
D106	1	1"	DMX CABLE		TERRACE LIGHTING CONTROLS	LIGHT XF7	BELDEN #9729
SP01	1	2"	SPARE CONDUIT		PANEL 1A	LIGHT XF1	WITH PULL STRING
SP02	1	2"	SPARE CONDUIT		PANEL 1A	ART LIGHTING	WITH PULL STRING
SP03	1	2"	SPARE CONDUIT		PANEL 1A	LIGHT XF4	WITH PULL STRING
SP04	1	2"	SPARE CONDUIT		PANEL 1A	LIGHT XF4	WITH PULL STRING
SP05	1	4"	SPARE CONDUIT		BATHROOM BUILDING	CAFÉ BUILDING	WITH PULL STRING
SP06	1	4"	SPARE CONDUIT		BATHROOM BUILDING	(E) UTILITY POLE	WITH PULL STRING

PLANS PREPARED BY:

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ADDRESS: SIXTH STREET OVER THE LOS ANGELES RIVER

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DESIGN GROUP

ENGINEER: LIC. NO. E-15809 DATE: 07/11/22

DESIGNED BY: JAMES ROBERTS
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WORK ORDER NO. E700235D
FILE NO. --
DRAWING NO. E-405
SHEET 179 OF 295 SHEETS

7/11/2022 8:23:51 PM - O:\PROJECTS\IRVINE\20043\200-20043-17001\CAD\SHEETFILES\E-405 CONDUIT SCHEDULE I.DWG - ROBERTS, JAMES1

BID SET - NOT FOR CONSTRUCTION

EAST PARK CONDUIT SCHEDULE

REF NO.	CONDUIT		CONDUCTORS		FROM	TO	COMMENTS
	QTY	SIZE	QTY & SIZE	GND			
PS2	2	5"	BY LADWP		POINT OF CONNECTION	LADWP XFMR	
SS2	8	4"	BY LADWP		LADWP XFMR	SWITCHBOARD	
P001	2	4"	4#250KCMIL	1#1	SWITCHBOARD	MISC. LOAD 1	
P002	1	3"	4#4/0	1#6	SWITCHBOARD	MISC. LOAD 2	
P003	2	4"	4#350KCMIL	1#1/0	SWITCHBOARD	MISC. LOAD 3	
P004	1	4"	4#250KCMIL	1#4	SWITCHBOARD	SOUND EQUIPMENT 1	
P005	1	3"	4#4	1#8	SWITCHBOARD	SOUND EQUIPMENT 2	
P006	1	4"	4#350KCMIL	1#3	SWITCHBOARD	SOUND EQUIPMENT 3	
P007	1	3"	3#4/0	1#3	SWITCHBOARD	PANEL "2C"	
P008	1	2"	2#4	1#8	SWITCHBOARD	EV CHARGING STATION 1	
P009	1	2"	2#4	1#8	SWITCHBOARD	EV CHARGING STATION 2	
P010							NOT USED
P011							NOT USED
P012							NOT USED
P013	1	4"	12#4	3#8	SWITCHBOARD	TENT REC	
P014	1	4"	12#1/0	3#6	SWITCHBOARD	TENT REC	
P015							NOT USED
P016							NOT USED
P100	1	2"	2#2/0	1#6	LIGHTING PULL BOX	LIGHTS - XF1, XF2 & XF4A	CKT 1
P101	1	2"	2#1/0	1#6	LIGHTING PULL BOX	LIGHTS - XF2 & XF13	CKT 2
P102	1	2"	2#4	1#8	LIGHTING PULL BOX	LIGHTS - XF2	CKT 4
P103	1	2"	4#2	2#6	PANEL 2A	LIGHTS - XF10A	CKT 17, 19
P104	1	3"	2#4/0	1#6	PANEL 2A	LIGHTS - XF10	CKT 3
P105	1	3"	2#3/0	1#6	PANEL 2A	LIGHTS - XF10	CKT 7
P106	1	3"	2#4/0	1#6	PANEL 2A	LIGHTS - XF10	CKT 5
P107	1	3"	2#3/0	1#6	PANEL 2A	LIGHTS - XF10	CKT 9
P108	1	2"	2#2	1#8	LIGHTING PULL BOX	LIGHTS - XF1 & XF2	CKT 14
P109	1	2"	2#4	1#8	LIGHTING PULL BOX	LIGHTS - XF1 & XF2	CKT 11
P110	1	2"	2#4	1#8	LIGHTING PULL BOX	LIGHTS - XF13	CKT 12
P111	1	1"	2#12	1#12	PANEL 2A	LIGHTS - NORTH BUILDING	CKT 21
P112	1	2"	12#10	6#12	PANEL 2A	EXTERIOR LIGHTING CONTROL PANEL	CKT 1, 2, 4, 11, 12, 14
P113	1	3"	2#2/0	1#6	PANEL 2A	POLE LIGHT RECEPTACLES	CKT 23
P114	1	3"	2#1/0	1#6	PANEL 2A	POLE LIGHT RECEPTACLES	CKT 22
P115	1	2"	2#4	1#8	PANEL 2A	POLE LIGHT RECEPTACLES	CKT 25
P116	1	2"	2#2	1#8	PANEL 2A	POLE LIGHT RECEPTACLES	CKT 24
P117	1	2"	2#4	1#8	PANEL 2A	POLE LIGHT RECEPTACLES	CKT 27
P118	1	2"	4#4	2#8	PANEL 2A	LARGE STAGE 1 ISOLATED REC	CKT 29, 31
P119	1	1"	2#10	1#10	PANEL 2A	LARGE STAGE 1 ISOLATED REC	CKT 33
P120	1	2"	2#4	1#8	PANEL 2A	LARGE STAGE 1 REC	CKT 35
P121	1	1"	2#10	1#10	PANEL 2A	LARGE STAGE 1 REC	CKT 37
P122	1	1"	2#10	1#10	PANEL 2A	SMALL STAGE ISOLATED REC SMALL STAGE REC	CKT 28
P123	1	1"	2#8	1#10	PANEL 2A	SMALL STAGE ISOLATED REC	CKT 26
P124	1	1"	2#10	1#10	PANEL 2A	SMALL STAGE REC	CKT 30
P125	1	2"	2#6	1#8	PANEL 2A	LARGE STAGE 2 ISOLATED REC	CKT 36
P126	1	2"	2#6	1#8	PANEL 2A	LARGE STAGE 2 REC	CKT 40
P127	1	2"	4#3	2#8	PANEL 2A	LARGE STAGE 2 ISOLATED REC	CKT 32, 34
P128	1	2"	2#3	1#8	PANEL 2A	LARGE STAGE 2 REC	CKT 38
P129	1	2"	2#3	1#8	PANEL 2A	IRRIGATION CONTROLLER "E"	CKT 18
P130	1	2"	2#6	1#10	PANEL 2A	WET WELL SUMP PUMP	CKT 45
P131	1	1"	2#12	1#12	PANEL 2A	WATER CIRC PUMP	CKT 46
P132	1	1"	2#12	1#12	PANEL 2C	ISP DROP	PNL 2C, CKT 22
P133	1	1"	2#12	1#12	PANEL 2A	HISTORIC LIGHTING	CKT 20
P134	1	1"	4#12	2#12	PANEL 2C	SECURITY OUTLETS	PNL 2C, CKT 18, 19
P135	1	1"	2#10	1#12	PANEL 2A	PED CROSSWALK RRFB 1	CKT 8
P136	1	1"	2#12	1#12	PANEL 2A	PED CROSSWALK RRFB 2	CKT 10
P137	1	1"	2#10	1#12	PANEL 2A	PED CROSSWALK RRFB 3	CKT 16
P138	1	1"	2#10	1#12	PANEL 2A	IRRIGATION CONTROLLER "D"	CKT 50
P139	1	1"	2#8	1#12	PANEL 2A	IRRIGATION CONTROLLER "C"	CKT 48
P140	1	2"	12#10	6#12	EXTERIOR LIGHTING CONTROL PANEL	LIGHTING PULL BOX	CKT 1, 2, 4, 11, 12, 14
P141	1	2"	2#4	1#8	PANEL 2A	IRRIGATION CONTROLLER "A"	CKT 47
P200	1	3"	8#1	2#6	PANEL 2B	LARGE STAGE 1 DEDICATED REC	PNL 2B, CKT 1,3,5,7,9,11
P201	1	3"	8#1	2#6	PANEL 2B	LARGE STAGE 1 DEDICATED REC	PNL 2B, CKT 13,15,17,19,21,23
P202	1	2"	8#6	2#8	PANEL 2B	SMALL STAGE DEDICATED REC	PNL 2B, CKT 25,27,29,31,33,35
P203	1	4"	12#1/0	3#6	PANEL 2B	LARGE STAGE 2 DEDICATED REC	PNL 2B, CKT 2,4,6,8,10,12
P204	1	3"	4#1/0	1#6	PANEL 2B	LARGE STAGE 2 DEDICATED REC	PNL 2B, CKT 14,16,18,20,22,24
P205	1	1"	2#12	1#12	PANEL 2B	WATER HEATER	PNL 2B, CKT 37,39
P206	1	2"	3#4	1#8	PANEL 2B	MISTING PAD	PNL 2B, CKT 41,43,45
P207	1	1"	2#10	1#12	PANEL 2B	MOTORIZED ROLL-UP DOOR	PNL 2B, CKT 28
P301	1	1"	6#12	3#12	PANEL 2C	MOTORIZED SECURITY SCREENS	PNL 2C, CKT 6,8,10
P302	1	1"	6#12	3#12	PANEL 2C	MOTORIZED SECURITY SCREENS	PNL 2C, CKT 5,7,9
P303	1	1"	2#12	1#12	PANEL 2C	MOTORIZED SECURITY SCREEN	PNL 2C, CKT 2
P304	1	1"	2#12	1#12	PANEL 2C	MOTORIZED SECURITY SCREEN	PNL 2C, CKT 4
P305	1	1"	2#12	1#12	PANEL 2C	LIGHTS - SOUTH BULDING	PNL 2C, CKT 21

EAST PARK CONDUIT SCHEDULE

REF NO.	CONDUIT		CONDUCTORS		FROM	TO	COMMENTS
	QTY	SIZE	QTY & SIZE	GND			
C100	1	1"	8#14	1#14	AC UNIT HP-1	THERMOSTAT-1	MULTICONDUCTOR CABLE
SP01	1	2"			PANEL 2A	LIGHT-XF1, XF2	WITH PULL STRING
SP02	1	2"			PANEL 2A	LIGHT-XF1	WITH PULL STRING
SP03	1	2"			PANEL 2A	LIGHT-XF1	WITH PULL STRING
SP04	1	2"			PANEL 2A	ART LIGHTING	WITH PULL STRING
SP05	1	4"			ELECTRICAL ROOM	OFFICE BUILDING ELECTRICAL CLOSET	WITH PULL STRING
SP06	1	4"			OFFIFCE BUILDING ELECTRICAL CLOSET	(E) UTILITY POLE	WITH PULL STRING
SP07	1	2"			PANEL 2B	EV CHARGING STATION 3 - FUTURE	WITH PULL STRING
SP08	1	2"			PANEL 2B	EV CHARGING STATION 4 - FUTURE	WITH PULL STRING
SP09	1	2"			PANEL 2B	EV CHARGING STATION 5 - FUTURE	WITH PULL STRING

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PLANS PREPARED BY:
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CITY OF LOS ANGELES — DEPARTMENT OF PUBLIC WORKS — BUREAU OF ENGINEERING

VERT. CONTROL: BM 12-04070, 1929 (NGVD29) - 1985 ADJUSTMENT
HORIZ. CONTROL: GPS; PID AE 1704, EPOCH 1991.35

SHEET TITLE: EAST PARK CONDUIT SCHEDULE
PROJECT: SIXTH STREET PARK, ARTS AND RIVER CONNECTIVITY IMPROVEMENTS (PARC)
ADDRESS: SIXTH STREET OVER THE LOS ANGELES RIVER

GARY LEE MOORE, P.E., ENV SP — CITY ENGINEER
DESIGN GROUP
LIC. NO. E-15809 DATE: 07/11/22
ENGINEER:
DESIGNED BY: JAMES ROBERTS
DRAWN BY: JAMES ROBERTS
CHECKED BY: MAZEN KASSAR
APPROVED BY: MAZEN KASSAR

THIS PLAN WAS ELECTRONICALLY SIGNED AND STAMPED
REGISTERED PROFESSIONAL ENGINEER MAZEN KASSAR No. E 15809 Exp. 12-31-22 ELECTRICAL STATE OF CALIFORNIA

NO. REVISIONS: DATE: BY:
INDEX NO.
BUILDING NO.
ENGINEERING — CITY OF LOS ANGELES

WORK ORDER NO. E700235D
FILE NO. --
DRAWING NO. E-406
SHEET 180 OF 295 SHEETS

7/11/2022 8:23:55 PM - O:\PROJECTS\IRVINE\20043\200-20043-17001\CAD\SHEETFILES\E-406 CONDUIT SCHEDULE II.DWG - ROBERTS, JAMES1

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LIGHTING FIXTURE SCHEDULE

FIXTURE I.D.	FIXTURE: INCAND.	FIXTURE: FLUOR.	FIXTURE: H.P.S.	FIXTURE: MET. HAL.	FIXTURE: LED	VOLTS	LAMPS: NO	LAMPS: WATTS AND TYPE	FIXTURE: RECESS	FIXTURE: SURFACE	FIXTURE: PEND.	FIXTURE: WALL	FIXTURE: POLE	DESCRIPTION AND VARIATIONS	MANUFACTURER AND CATALOG NO.
XF1 75					●	120	1	75					●	LED POLE MOUNT PEDESTRIAN LIGHT, NOMINAL 18' HEIGHT, SYMMETRIC OPTIC, DIMMABLE, WET-RATED	KIM UR20-56L-75-3K8-5W-UNV-FM33-FINISH LTRA-MOD18-51XX-FM-FINISH POLE
XF1A 75					●	120	1	75					●	LED POLE MOUNT PEDESTRIAN LIGHT, NOMINAL 10' HEIGHT, SYMMETRIC OPTIC, DIMMABLE, WET-RATED	KIM UR20-56L-75-3K8-5W-UNV-FM33-FINISH LTRA-MOD10-51XX-FM-FINISH POLE
XF2 75					●	120	1	75					●	LED POLE MOUNT PEDESTRIAN LIGHT, NOMINAL 18' HEIGHT, ASYMMETRIC HOUSE SIDE SHIELD, DIMMABLE, WET-RATED	KIM UR20-56L-75-3K8-5W-UNV-FM33-FINISH-MOD BC LTRA-MOD18-51XX-FM-FINISH POLE
XF4 225					●	120	6	37.5					●	POLE WITH (6) LED ADJUSTABLE ACCENT LIGHTS AT THE TOP, NOMINAL 20' HEIGHT, DIMMABLE, WET-RATED	BEGA (6) 84 528-K3-FINISH FIXTURE (6) 79 511 MOUNTING BLOCK (6) 71 111 GLARE SHIELD 1908HR MOD 20'-FINISH-2X3D POLE
XF4A 225					●	120	6	37.5					●	POLE WITH (6) LED ADJUSTABLE ACCENT LIGHTS AT THE TOP, NOMINAL 10' HEIGHT, DIMMABLE, WET-RATED	BEGA (6) 84 528-K3-FINISH FIXTURE (6) 79 511 MOUNTING BLOCK (6) 71 111 GLARE SHIELD 1908HR MOD 10'-FINISH-2X3D POLE
XF6 40					●	120	1	40		●				LINEAR LED LENSED DOWNLIGHT, NOMINAL 1.5" APERTURE AND 48" LENGTH, DIMMABLE, SUBMERSIBLE-RATED. PROVIDE WITH TDQ DIMMING TRANSFORMER-120V. INSTALL IN NEAREST PULL BOX	HYDREL W6348-LED-120MA-30K-24-VWFL-A3-SCF-LP WINONA TQD500
XF7 1305					●	120	12	180, 37.5					●	POLE WITH (6) ADJUSTABLE COLOR CHANGING LED THEATRICAL ELLIPSOIDAL REFLECTOR SPOTLIGHTS AND (6) LED ADJUSTABLE ACCENT LIGHTS AT TOP NOMINAL 24' HEIGHT, DMX CONTROL, DIMMABLE, WET-RATED	BEGA (6) 84 528-K3-FINISH FIXTURE (6) 79 511 MOUNTING BLOCK (6) 71 111 GLARE SHIELD 1908HR MOD 25'-FINISH-2X3D POLE COEMAR (6) LEDko EXT2 FULL SPECTRUM BEGA (6) 70 379 POLE ARMS
XF8 721					●	120	10	124, 37.5					●	POLE WITH (4) ADJUSTABLE COLOR CHANGING LED THEATRICAL PAR WASH LIGHTS AND (6) LED ADJUSTABLE ACCENT LIGHTS AT THE TOP, NOMINAL 24' HEIGHT, DMX CONTROL, DIMMABLE, WET-RATED	ETC (4) SELD60XTI-V, (2) D60XTIDPM, (4) D60XTIHH, (4) 400SC, (2) D60XTI-RM, (2) D60XTI-RW, (2) D60XTI-RXW
XF9 17.25					●	120		17.25/FT				●		IN-GRADE CONTINUOUS LINEAR COLOR CHANGING LED ADJUSTABLE WALL GRAZE LIGHT, DMX CONTROL, WET-RATED. MOUNT TO WALL PER VENDOR RECOMMENDATIONS.	LUMENPULSE LOI-100/277-12-RGBW-30X30-TSO-INTL-DMX-RDM-ASL (1) LID
XF10 3200					●	120	4	800					●	POLE WITH (4) ADJUSTABLE LED SPORTS LIGHTS AT THE TOP, NOMINAL 30' HEIGHT WITH 20 DEGREE TILT, MOUNTED PHOTOCELL, WET-RATED	NLS LIGHTING (4) VUE-4-T4L-80-50K-FSS-4-7PIN SPAULDING LIGHTING RTS-30-XX-1-MOUNTING-FINISH-ARMS
XF10A 1515					●	120	3	505					●	POLE WITH (3) ADJUSTABLE LED SPORTS LIGHTS AT THE TOP, NOMINAL 30' HEIGHT WITH 20 DEGREE TILT, MOUNTED PHOTOCELL, WET-RATED	NLS LIGHTING (3) VUE-3-TT-160L-1-50K-UNV-KM-GPH-FSS, PE7+SHORTING CAP SPAULDING LIGHTING RTS-30-XX-1-MOUNTING-FINISH-ARMS
XF11 26					●	120	1	26		●				LED LENSED DOWNLIGHT, NOMINAL 4" APERTURE, DIMMABLE, WET-RATED	ALPHABET NU4-RA-XTM19-20LM-35K-DC50-DIM10-NC
XF12 23					●	120	1	23		●				LINEAR LED LENSED STRIP LIGHT, NOMINAL 4" WIDTH, NOMINAL 48" LENGTH	MARK SLOT 4 LED SL4L-QS-LOP-4FT-FLP-80CRI-35K-600LMF
XF12A 13					●	120	1	13		●				LINEAR LED LENSED STRIP LIGHT, NOMINAL 4" WIDTH, NOMINAL 24" LENGTH	MARK SLOT 4 LED SL4L-QS-LOP-2FT-FLP-80CRI-35K-600LMF
XF13 48					●	120	1	48		●				NOMINAL 6" ARM-MOUNTED LED LINEAR ADJUSTABLE SHIELDED PATH LIGHT, NOMINAL 1.5' APERTURE AND 48" LENGTH, WET RATED	HK LIGHTING ZXLLI-BD-3K-FSS-FINISH
XF14 1.5					●	120	1	1.5		●				HANDRAIL-MOUNTED LED ASYMMETRIC DOWNLIGHT, WET RATED	ALPHABET 750-3-3-FACE-WALL, P70418-500 (1) 750 ZETA TOOLKIT
XF15 18					●	120	1	18		●				LINEAR LED LENSED STRIP LIGHT, NOMINAL 4" WIDTH, WET RATED, 24" LENGTH	PINNACLE EDGE EV3-WET-835HO-2'-IND-FLF-1
XF15A 44					●	120	1	44		●				LINEAR LED LENSED STRIP LIGHT, NOMINAL 4" WIDTH, WET RATED, 60" LENGTH	PINNACLE EDGE EV3-WET-835HO-5'-IND-FLF-1
XF15B 26					●	120	1	26		●				LINEAR LED LENSED STRIP LIGHT, NOMINAL 4" WIDTH, WET RATED, 36" LENGTH	PINNACLE EDGE EV3-WET-835HO-3'-IND-FLF-1
XF16 37					●	120	1	37		●				LINEAR LED LENSED STRIP LIGHT, NOMINAL 4" WIDTH, NOMINAL 96" LENGTH	LITHONIA LIGHTING LED LINEAR CLX-L96-6000LM-HEF-MVOLT-35K-80CRI

REVISION DATES (DESIGN STAGE ONLY)

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VERT. CONTROL: BM 12-04070, 1929 (NGVD29) - 1985 ADJUSTMENT
HORIZ. CONTROL: GPS, PID AE 1704, EPOCH 1991.35

SHEET TITLE: LIGHTING SCHEDULE

PROJECT: SIXTH STREET PARK, ARTS AND RIVER CONNECTIVITY IMPROVEMENTS (PARC)

ADDRESS: SIXTH STREET OVER THE LOS ANGELES RIVER

GARY LEE MOORE, P.E., ENV SP — CITY ENGINEER
DESIGN GROUP
ENGINEER: LIC. NO. E-15809 DATE: 07/11/22
DESIGNED BY: JAMES ROBERTS
DRAWN BY: JAMES ROBERTS
CHECKED BY: MAZEN KASSAR
APPROVED BY: MAZEN KASSAR

THIS PLAN WAS ELECTRONICALLY SIGNED AND STAMPED

REGISTERED PROFESSIONAL ENGINEER — MAZEN KASSAR — No. E 15809 — Exp. 12-31-22 — ELECTRICAL — STATE OF CALIFORNIA

NO. | REVISIONS: | DATE | BY:

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ENGINEERING — CITY OF LOS ANGELES

WORK ORDER NO. E700235D
FILE NO. --
DRAWING NO. E-407
SHEET 181 OF 295 SHEETS

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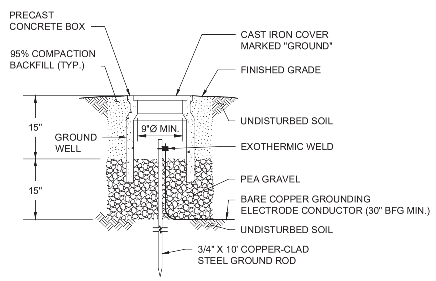

1 GROUND ROD WELL
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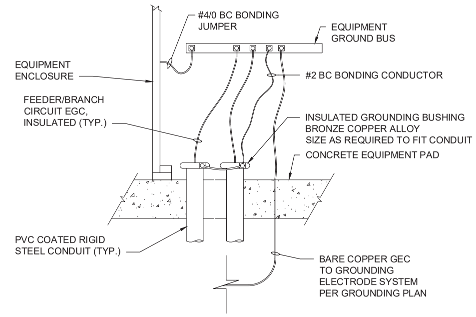
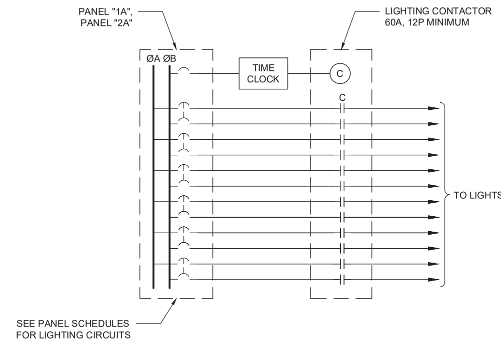


2 ELECTRICAL EQUIPMENT GROUNDING
SCALE: N.T.S.



3 EXTERIOR LIGHTING CONTROL SCHEMATIC DIAGRAM
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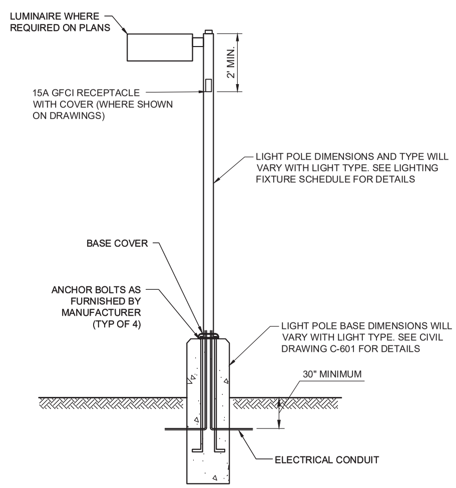
4 NOT USED
SCALE: N.T.S.



5 LIGHT POLE DETAIL
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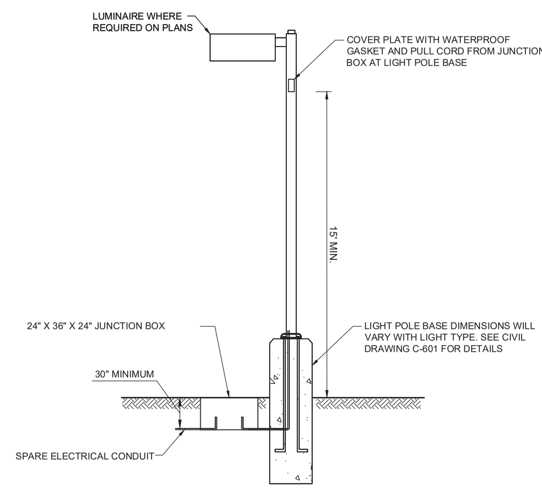

6 WIFI ACCESS POINT DETAIL
SCALE: N.T.S.

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SHEET TITLE: ELECTRICAL DETAILS
PROJECT: SIXTH STREET PARK, ARTS AND RIVER CONNECTIVITY IMPROVEMENTS (PARC)
ADDRESS: SIXTH STREET OVER THE LOS ANGELES RIVER

GARY LEE MOORE, P.E., ENV SP — CITY ENGINEER
DESIGN GROUP
ENGINEER: — LIC. NO. E-15809 — DATE: 07/11/22
DESIGNED BY: JAMES ROBERTS
DRAWN BY: JAMES ROBERTS
CHECKED BY: MAZEN KASSAR
APPROVED BY: MAZEN KASSAR

• THIS PLAN WAS ELECTRONICALLY SIGNED AND STAMPED •

REGISTERED PROFESSIONAL ENGINEER — MAZEN KASSAR — No. E 15809 — Exp. 12-31-22 — ELECTRICAL — STATE OF CALIFORNIA

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FILE NO. --
DRAWING NO. E-501
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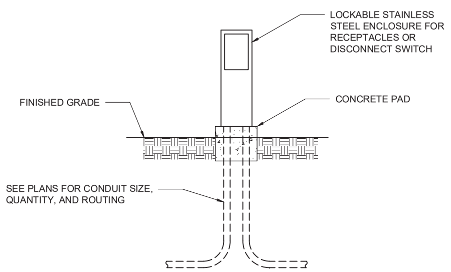

1 EQUIPMENT PEDESTAL DETAIL
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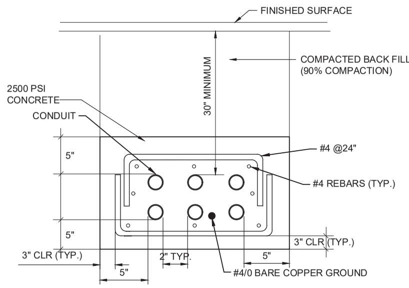
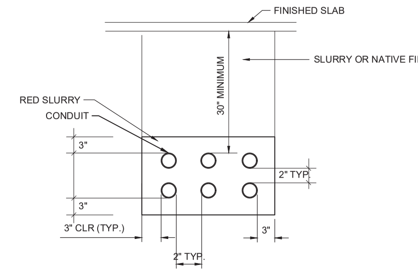


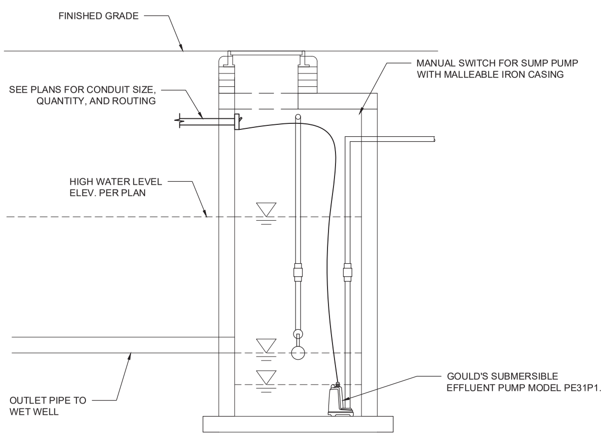
NOTE: THIS DETAIL SHOWS A TYPICAL DUCT BANK CROSS SECTION. COORDINATE NUMBER OF CONDUITS WITH PLANS AND PROVIDE DUCT BANK NECESSARY TO ACCOMMODATE ALL CONDUITS.

2 TYPICAL DUCT BANK IN ROADWAY
SCALE: N.T.S.



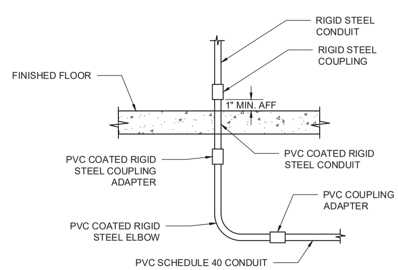
NOTE: THIS DETAIL SHOWS A TYPICAL UNDER SLAB CROSS SECTION. COORDINATE NUMBER OF CONDUITS WITH PLANS AND PROVIDE UNDER SLAB NECESSARY TO ACCOMMODATE ALL CONDUITS.

3 TYPICAL UNDER SLAB CONDUITS
SCALE: N.T.S.

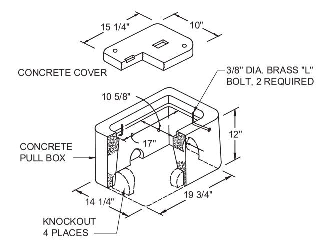


NOTE: REFER TO CIVIL PLANS FOR WET WELL SUMP PUMP DETAIL.

4 WET WELL SUMP PUMP SWITCH MOUNTING DETAIL
SCALE: N.T.S.



5 CONDUIT STUB-UP DETAIL
SCALE: N.T.S.



HIGH DENSITY REINFORCED CONCRETE PULL AND JUNCITON BOX WITH END AND SIDE KNOCKOUTS.

6 PULL BOX DETAIL
SCALE: N.T.S.

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REVISION DATES (DESIGN STAGE ONLY)

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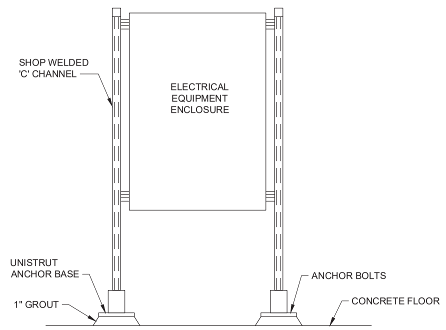
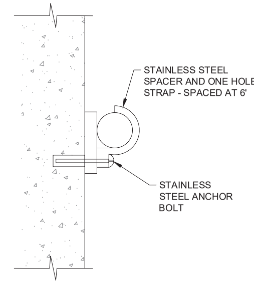
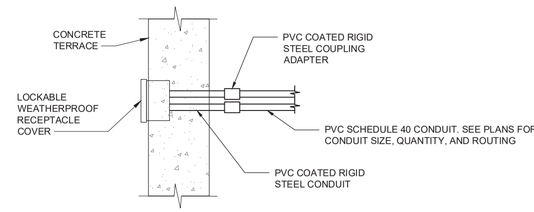


1 - EQUIPMENT MOUNT DETAIL
SCALE: N.T.S.



2 - CONDUIT MOUNTING DETAIL
SCALE: N.T.S.



3 - CONCRETE WALL RECEPTACLE MOUNT DETAIL
SCALE: N.T.S.

4 - NOT USED
SCALE: N.T.S.

REVISION DATES (DESIGN STAGE ONLY)

Sheet Version 3.0

PLANS PREPARED BY:
TETRA TECH, INC.
707 WILSHIRE BLVD. 23RD FLR.
LOS ANGELES, CA 90017
PHONE: (213) 239-8866

CITY OF LOS ANGELES — DEPARTMENT OF PUBLIC WORKS — BUREAU OF ENGINEERING

VERT. CONTROL: BM 12-04070, 1929 (NGVD29) - 1985 ADJUSTMENT
HORIZ. CONTROL: GPS, PID AE 1704, EPOCH 1991.35

SHEET TITLE: ELECTRICAL DETAILS
PROJECT: SIXTH STREET PARK, ARTS AND RIVER CONNECTIVITY IMPROVEMENTS (PARC)
ADDRESS: SIXTH STREET OVER THE LOS ANGELES RIVER

GARY LEE MOORE, P.E., ENV SP — CITY ENGINEER
DESIGN GROUP
ENGINEER: LIC. NO. E-15809 DATE: 07/11/22
DESIGNED BY: JAMES ROBERTS
DRAWN BY: JAMES ROBERTS
CHECKED BY: MAZEN KASSAR
APPROVED BY: MAZEN KASSAR

THIS PLAN WAS ELECTRONICALLY SIGNED AND STAMPED.

REGISTERED PROFESSIONAL ENGINEER MAZEN KASSAR No. E 15809 Exp. 12-31-22 ELECTRICAL STATE OF CALIFORNIA

NO.	REVISIONS:	DATE:	BY:

INDEX NO.

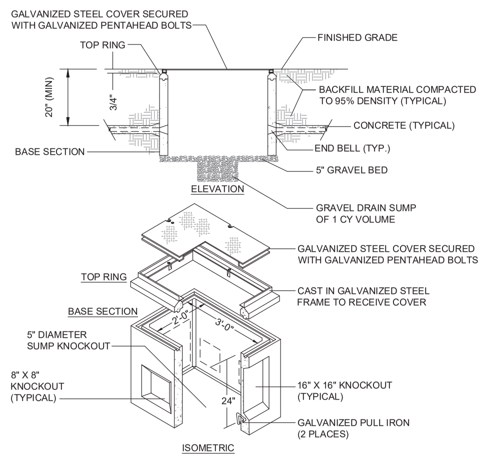
BUILDING NO.

ENGINEERING CITY OF LOS ANGELES

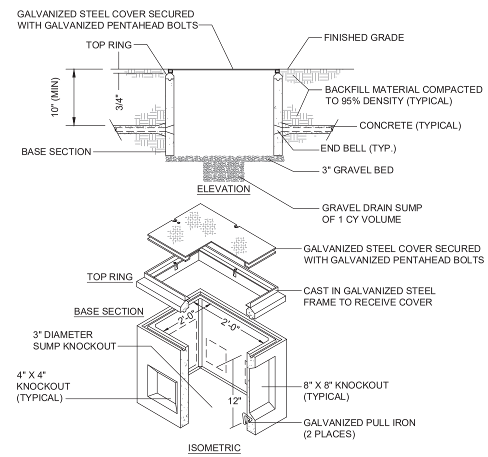
WORK ORDER NO. E700235D
FILE NO. --
DRAWING NO. E-503
SHEET 184 OF 295 SHEETS

7/11/2022 8:25:37 PM - O:\PROJECTS\IRVINE\20043\200-20043-17001\CAD\SHEETFILES\E-503 ELECTRICAL DETAILS III.DWG - ROBERTS, JAMES1

BID SET - NOT FOR CONSTRUCTION



1 – PULL BOX - 24"X36"X24" DETAIL
NTS



2 – PULL BOX - 24"X24"X12" DETAIL
NTS

REVISION DATES (DESIGN STAGE ONLY)

Sheet Version 3.0

PLANS PREPARED BY:
TETRA TECH, INC.
707 WILSHIRE BLVD, 23RD FLR.
LOS ANGELES, CA 90017
PHONE: (213) 239-8866

CITY OF LOS ANGELES — DEPARTMENT OF PUBLIC WORKS — BUREAU OF ENGINEERING

VERT. CONTROL: BM 12-04070, 1929 (NGVD29) - 1985 ADJUSTMENT
HORIZ. CONTROL: GPS, PID AE 1704, EPOCH 1991.35

SHEET TITLE: ELECTRICAL DETAILS XXXXXXXXXX
PROJECT: SIXTH STREET PARK, ARTS AND RIVER CONNECTIVITY IMPROVEMENTS (PARC)
ADDRESS: SIXTH STREET OVER THE LOS ANGELES RIVER

GARY LEE MOORE, P.E., ENV SP — CITY ENGINEER
DESIGN GROUP
ENGINEER: XXXX — LIC. NO. E-15809 — DATE: 07/11/22
DESIGNED BY: JAMES ROBERTS
DRAWN BY: JAMES ROBERTS
CHECKED BY: MAZEN KASSAR
APPROVED BY: MAZEN KASSAR

THIS PLAN WAS ELECTRONICALLY SIGNED AND STAMPED

REGISTERED PROFESSIONAL ENGINEER MAZEN KASSAR No. E 15809 Exp. 12-31-22 ELECTRICAL STATE OF CALIFORNIA

NO.	REVISIONS:	DATE	BY:

INDEX NO.

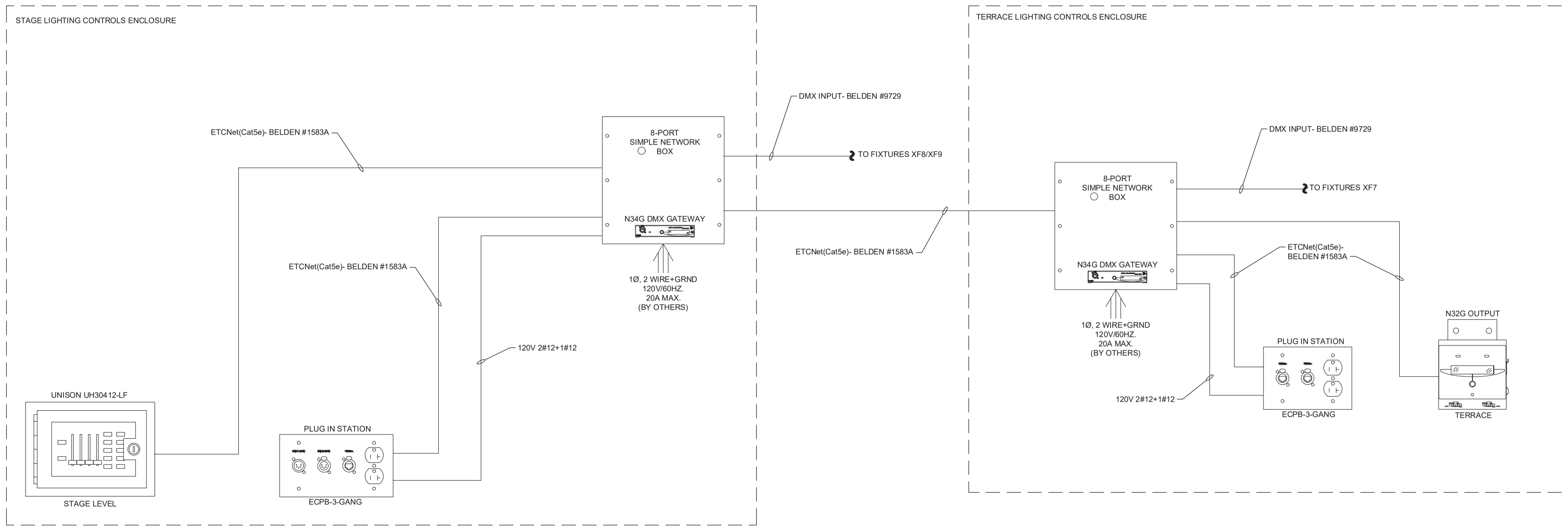
BUILDING NO.

ENGINEERING CITY OF LOS ANGELES

WORK ORDER NO. E700235D
FILE NO. --
DRAWING NO. E-504
SHEET 185 OF 295 SHEETS

7/11/2022 8:25:57 PM - O:\PROJECTS\IRVINE\20043\200-20043-17001\CAD\SHEETFILES\E-504 ELECTRICAL DETAILS IV.DWG - ROBERTS, JAMES1

BID SET - NOT FOR CONSTRUCTION



1 ARTS PLAZA LIGHTING CONTROLS
SCALE: N.T.S.

THE CITY OF LOS ANGELES OR ITS OFFICERS OR AGENTS SHALL NOT BE RESPONSIBLE FOR THE ACCURACY OR COMPLETENESS OF ELECTRONIC COPIES OF THIS PLAN SHEET.

REVISION DATES (DESIGN STAGE ONLY)

PLANS PREPARED BY:
TETRA TECH, INC.
707 WILSHIRE BLVD. 23RD FLR.
LOS ANGELES, CA 90017
PHONE: (213) 239-8866

CITY OF LOS ANGELES — DEPARTMENT OF PUBLIC WORKS — BUREAU OF ENGINEERING

VERT. CONTROL: BM 12-04070, 1929 (NGVD29) - 1985 ADJUSTMENT
HORIZ. CONTROL: GPS, PID AE 1704, EPOCH 1991.35

SHEET TITLE: ARTS PLAZA LIGHTING CONTROL DIAGRAM
PROJECT: SIXTH STREET PARK, ARTS AND RIVER CONNECTIVITY IMPROVEMENTS (PARC)
ADDRESS: SIXTH STREET OVER THE LOS ANGELES RIVER

GARY LEE MOORE, P.E., ENV SP — CITY ENGINEER
DESIGN GROUP — LIC. NO. E-15809 — DATE: 07/11/22
ENGINEER:
DESIGNED BY: JAMES ROBERTS
DRAWN BY: JAMES ROBERTS
CHECKED BY: MAZEN KASSAR
APPROVED BY: MAZEN KASSAR

THIS PLAN WAS ELECTRONICALLY SIGNED AND STAMPED
REGISTERED PROFESSIONAL ENGINEER — MAZEN KASSAR — No. E 15809 — Exp. 12-31-22 — ELECTRICAL — STATE OF CALIFORNIA

NO.	REVISIONS:	DATE:	BY:

INDEX NO.
BUILDING NO.

ENGINEERING — CITY OF LOS ANGELES

WORK ORDER NO. E700235D
FILE NO. --
DRAWING NO. E-601
SHEET 186 OF 295 SHEETS

7/11/2022 8:26:31 PM - O:\PROJECTS\IRVINE\20043\200-20043-17001\CAD\SHEETFILES\E-601 LIGHTING CONTROLS ELEVATION.DWG - ROBERTS, JAMES1

Sheet Version 3.0

BID SET - NOT FOR CONSTRUCTION

STATE OF CALIFORNIA

Indoor Lighting

NRCC-LTI-E (Created 04/21) CALIFORNIA ENERGY COMMISSION

CERTIFICATE OF COMPLIANCE			NRCC-LTI-E
This document is used to demonstrate compliance with requirements in §110.9, §110.12(c), §130.0, §130.1, §140.6, and §141.0(b)2 for indoor lighting scopes using the prescriptive path.			
Project Name:	Sixth Street Park, Arts and River Connectivity Improvements	Report Page:	Page 1 of 6
Project Address:	Sixth Street over the Los Angeles River	Date Prepared:	05/26/2022

A. GENERAL INFORMATION

01	Project Location (city)	Los Angeles	04	Total Conditioned FloorArea (ft^2)	163
02	Climate Zone	9	05	Total Unconditioned Floor Area (ft^2)	0
03	Occupancy Types Within Project (select all that apply):		06	# of Stories (Habitable Above Grade)	1

☐ Office ☐ Retail ☐ Warehouse ☐ Hotel/Motel ☐ School ☐ Support Areas
☐ Parking Garage ☐ High-Rise Residential ☐ Relocatable ☐ Healthcare ☑ Other (write in): PARC West Restroom

B. PROJECT SCOPE

Table Instructions: Include any lighting systems that are within the scope of the permit application and are demonstrating compliance using the prescriptive path outlined in §140.6 or §141.0(b)2 for alterations. WARNING: Changing the Calculation Method in this table will result in the deletion of data previously input. If you need to change the calculation method, please open a new form or use "Save As".

Scope of Work	Conditioned Spaces		Unconditioned Spaces	
01	02	03	04	05
My Project Consists of (check all that apply):	Calculation Method	Area (ft^2)	Calculation Method	Area (ft^2)
☑ New Lighting System	Area Category	163	Area Category	0
☐ Altered Lighting System		0		0
Total Area of Work (ft^2)	163		0	

C. COMPLIANCE RESULTS

Table Instructions: If any cell on this table says "DOES NOT COMPLY" or "COMPLIES with Exceptional Conditions" refer to Table D. for guidance.

Lighting in conditioned and unconditioned spaces must not be combined for compliance per §140.6(b)1.	Allowed Lighting Power per §140.6(b) (Watts)							Adjusted Lighting Power per §140.6(a) (Watts)				Compliance Results
	01	02	03	04		05		06	07		08	09
	Complete Building §140.6(c)1	Area Category §140.6(c)2	Area Category Additional §140.6(c)2G (+)	Tailored §140.6(c)3 (+)	=	Total Allowed (Watts)	≥	Total Designed (Watts)	Adjustments PAF Control Credits §140.6(a)2 (-)	=	Total Adjusted (Watts) *Includes Adjustments	05 Must be ≥ 08 §140.6
	(See Table I)	(See Table I)	(See Table J)	(See Table K)				(See Table F)	(See Table P)			
Conditioned:		105.95	0		=	105.95	≥	104		=	104	COMPLIES
Unconditioned:					=		≥			=		

Table Continued

STATE OF CALIFORNIA

Indoor Lighting

NRCC-LTI-E (Created 04/21) CALIFORNIA ENERGY COMMISSION

CERTIFICATE OF COMPLIANCE			NRCC-LTI-E
Project Name:	Sixth Street Park, Arts and River Connectivity Improvements	Report Page:	Page 2 of 6
Project Address:	Sixth Street over the Los Angeles River	Date Prepared:	05/26/2022

Controls Compliance (See Table H for Details)	COMPLIES
Rated Power Reduction Compliance (See Table Q for Details)	Not Applicable

D. EXCEPTIONAL CONDITIONS

This table is auto-filled with uneditable comments because of selections made or data entered in tables throughout the form.

No exceptional conditions apply to this project.

E. ADDITIONAL REMARKS

This table includes remarks made by the permit applicant to the Authority Having Jurisdiction.

F. INDOOR LIGHTING FIXTURE SCHEDULE

Table Instructions: Include all permanent designed lighting and all portable lighting in offices.

Designed Wattage: Conditioned Spaces

01	02	03	04	05	06	07	08	09	10	
Name or Item Tag	Complete Luminaire Description	Modular (Track) Fixture	Small Aperture & Color Change[1]	Watts per luminaire[2]	How Wattage is determined	Total number luminaires	Exempt per §140.6(a)3	Design Watts	Field Inspector Pass	Field Inspector Fail
XF15B	LED lensed strip light	☐	☐	26	Mfr. Spec[2]	4	☐	104	☐	☐
					Total Designed Watts CONDITIONED SPACES:			104		

[1] *FOOTNOTE: Design Watts for small aperture and color changing luminaires which qualify per §140.6(a)4B is adjusted to be 75% of their rated wattage. Table F automatically makes this adjustment, the permit applicant should enter full rated wattage in column 05.*
[2] *Authority Having Jurisdiction may ask for Luminaire cut sheets to confirm wattage used for compliance per §130.0(c) Wattage used must be the maximum rated for the luminaire, not the lamp.*

G. MODULAR LIGHTING SYSTEMS

This Section Does Not Apply

H. INDOOR LIGHTING CONTROLS (Not Including PAFs)

*Table Instructions: Please include lighting controls for conditioned and unconditioned spaces in this table. When an option having a * is selected, the notes section of this table must be completed. The lighting controls section of the Compliance Summary Table on the first page will show "DOES NOT COMPLY" if the notes are left blank.*

STATE OF CALIFORNIA

Indoor Lighting

NRCC-LTI-E (Created 04/21) CALIFORNIA ENERGY COMMISSION

CERTIFICATE OF COMPLIANCE			NRCC-LTI-E
Project Name:	Sixth Street Park, Arts and River Connectivity Improvements	Report Page:	Page 3 of 6
Project Address:	Sixth Street over the Los Angeles River	Date Prepared:	05/26/2022

Building Level Controls

01	02	03	
Mandatory Demand Response §110.12(c)	Shut-Off Controls §130.1(c)	Field Inspector Pass	Field Inspector Fail
Not Required ≤ 10,000 SF	See Area/Space Level Controls	☐	☐

Area Level Controls

04	05	06	07	08	09	10	11	12	
Area Description	Complete Building or Area Category Primary Function Area	Area Controls §130.1(a)	Multi-Level Controls §130.1(b)	Shut-Off Controls §130.1(c)	Primary/Skylit Daylighting §130.1(d)	Secondary Daylighting §140.6(d)	Interlocked Systems §140.6(a)1	Field Inspector Pass	Field Inspector Fail
PARC West Restrooms	Restroom	Manual ON/OFF	Bi-level Switch	Occ. Sensor	NA	NA	☐	☐	☐

*NOTES: Controls with a * require a note in the space below explaining how compliance is achieved.
EX: Conference 1: Primary/Skylight Daylighting: Exempt because less than 120 watts of general lighting; EXCEPTION 1 to §130.1(d)2

13 Plan Sheet Showing Daylit Zones:

I. LIGHTING POWER ALLOWANCE: COMPLETE BUILDING OR AREA CATEGORY METHODS

Table Instructions: Complete the table for each area complying using the Complete Building or Area Category Methods per §140.6(b). Indicate if additional lighting power allowances per §140.6(c) or adjustments per §140.6(a) are being used.

Conditioned Spaces

01	02	03	04	05	06	
Area Description	Complete Building or Area Category Primary Function Area	Allowed Density (W/ft^2)	Area (ft^2)	Allowed Wattage (Watts)	Additional Allowances / Adjustment: Area Category	Additional Allowances / Adjustment: PAF
PARC West Restrooms	Restroom	0.65	163	105.95	☐	☐
		TOTAL:	163	105.95	See Tables J or P for detail	

J. ADDITIONAL LIGHTING ALLOWANCE: AREA CATEGORY METHOD QUALIFYING LIGHTING SYSTEM

Table Instructions: Please complete the table for all areas indicated in Table I as using an additional allowance per the Area Category Method in Table 140.6-C.

STATE OF CALIFORNIA

Indoor Lighting

NRCC-LTI-E (Created 04/21) CALIFORNIA ENERGY COMMISSION

CERTIFICATE OF COMPLIANCE			NRCC-LTI-E
Project Name:	Sixth Street Park, Arts and River Connectivity Improvements	Report Page:	Page 4 of 6
Project Address:	Sixth Street over the Los Angeles River	Date Prepared:	05/26/2022

K. TAILORED METHOD GENERAL LIGHTING POWER ALLOWANCE
This Section Does Not Apply

L. ADDITIONAL LIGHTING ALLOWANCE: TAILORED WALL DISPLAY
This Section Does Not Apply

M. ADDITIONAL LIGHTING ALLOWANCE: TAILORED FLOOR AND TASK LIGHTING
This Section Does Not Apply

N. ADDITIONAL LIGHTING ALLOWANCE: TAILORED ORNAMENTAL/SPECIAL EFFECTS
This Section Does Not Apply

O. ADDITIONAL LIGHTING ALLOWANCE: TAILORED VERY VALUABLE MERCHANDISE
This Section Does Not Apply

P. POWER ADJUSTMENT: LIGHTING CONTROL CREDIT (POWER ADJUSTMENT FACTOR (PAF))
This Section Does Not Apply

Q. RATED POWER REDUCTION COMPLIANCE FOR ALTERATIONS
This Section Does Not Apply

R. 80% LIGHTING POWER FOR ALTERATIONS - CONTROLS EXCEPTIONS
This Section Does Not Apply

S. DAYLIGHT DESIGN POWER ADJUSTMENT FACTOR (PAF)
This Section Does Not Apply

T. DECLARATION OF REQUIRED CERTIFICATES OF INSTALLATION

Table Instructions: Selections have been made based on information provided in previous tables of this document. If any selection needs to be changed, please explain why in Table E. Additional Remarks. These documents must be provided to the building inspector during construction and canbe found online at https://ww2.energy.ca.gov/title24/2019standards/2019_compliance_documents/Nonresidential_Documents/NRCI/

REVISION DATES (DESIGN STAGE ONLY)

Sheet Version 3.0

PLANS PREPARED BY:
TETRA TECH, INC.
707 WILSHIRE BLVD, 23RD FLR.
LOS ANGELES, CA 90017
PHONE: (213) 239-8866

CITY OF LOS ANGELES — DEPARTMENT OF PUBLIC WORKS — BUREAU OF ENGINEERING

VERT. CONTROL: BM 12-04070, 1929 (NGVD29) - 1985 ADJUSTMENT
HORIZ. CONTROL: GPS; PID AE 1704, EPOCH 1991.35

SHEET TITLE: TITLE 24 WEST PARK RESTROOMS - INDOOR
PROJECT: SIXTH STREET PARK, ARTS AND RIVER CONNECTIVITY IMPROVEMENTS (PARC)
ADDRESS: SIXTH STREET OVER THE LOS ANGELES RIVER

GARY LEE MOORE, P.E., ENV SP — CITY ENGINEER
DESIGN GROUP
ENGINEER: LIC. NO. E-15809 DATE: 07/11/22
DESIGNED BY: JAMES ROBERTS
DRAWN BY: JAMES ROBERTS
CHECKED BY: MAZEN KASSAR
APPROVED BY: MAZEN KASSAR

• THIS PLAN WAS ELECTRONICALLY SIGNED AND STAMPED. •

REGISTERED PROFESSIONAL ENGINEER — MAZEN KASSAR — No. E 15809 — Exp. 12-31-22 — ELECTRICAL — STATE OF CALIFORNIA

NO. REVISIONS: DATE: BY:

INDEX NO.

BUILDING NO.

ENGINEERING CITY OF LOS ANGELES

WORK ORDER NO. E700235D
FILE NO. --
DRAWING NO. E-701
SHEET 187 OF 295 SHEETS

7/11/2022 8:27:20 PM - O:\PROJECTS\IRVINE\20043\200-20043-17001\CAD\SHEETFILES\E-701 TITLE 24 WEST PARK RESTROOMS - INDOOR.DWG - ROBERTS, JAMES1

BID SET - NOT FOR CONSTRUCTION

STATE OF CALIFORNIA

Indoor Lighting

NRCC-LTI-E (Created 04/21)

CALIFORNIA ENERGY COMMISSION

CERTIFICATE OF COMPLIANCE			NRCC-LTI-E
Project Name:	Sixth Street Park, Arts and River Connectivity Improvements	Report Page:	Page 5 of 6
Project Address:	Sixth Street over the Los Angeles River	Date Prepared:	05/26/2022

YES	NO	Form/Title	Field Inspector Pass	Field Inspector Fail
●	○	NRCI-LTI-01-E - Must be submitted for all buildings	☐	☐
○	●	NRCI-LTI-02-E - Must be submitted for a lighting control system, or for an Energy Management Control System (EMCS), to be recognized for compliance.	☐	☐
○	●	NRCI-LTI-04-E - Must be submitted for two interlocked systems serving an auditorium, a convention center, a conference room, a multipurpose room, or a theater to be recognized for compliance.	☐	☐
○	●	NRCI-LTI-05-E - Must be submitted for a Power Adjustment Factor (PAF) to be recognized for compliance.	☐	☐
○	●	NRCI-LTI-06-E - Must be submitted for additional wattage installed in a video conferencing studio to be recognized for compliance.	☐	☐

U. DECLARATION OF REQUIRED CERTIFICATES OF ACCEPTANCE

Table Instructions: Selections have been made based on information provided in previous tables of this document. If any selection needs to be changed, please explain why in Table E. Additional Remarks. These documents must be provided to the building inspector during construction and any with "-A" in the form name must be completed through an Acceptance Test Technician Certification Provider (ATTCP). For more information visit: http://www.energy.ca.gov/title24/attcp/providers.html

YES	NO	Form/Title	Field Inspector Pass	Field Inspector Fail
●	○	NRCA-LTI-02-A - Must be submitted for occupancy sensors and automatic time switch controls.	☐	☐
○	●	NRCA-LTI-03-A - Must be submitted for automatic daylight controls.	☐	☐
○	●	NRCA-LTI-04-A - Must be submitted for demand responsive lighting controls.	☐	☐
○	●	NRCA-LTI-05-A - Must be submitted for institutional tuning power adjustment factor (PAF).	☐	☐
○	●	NRCA-ENV-03-F - Must be submitted for daylighting design power adjustment factors (PAF).	☐	☐

STATE OF CALIFORNIA

Indoor Lighting

NRCC-LTI-E (Created 04/21)

CALIFORNIA ENERGY COMMISSION

CERTIFICATE OF COMPLIANCE			NRCC-LTI-E
Project Name:	Sixth Street Park, Arts and River Connectivity Improvements	Report Page:	Page 6 of 6
Project Address:	Sixth Street over the Los Angeles River	Date Prepared:	05/26/2022

DOCUMENTATION AUTHOR'S DECLARATION STATEMENT

I certify that this Certificate of Compliance documentation is accurate and complete

Documentation Author Name:	James Roberts	Documentation Author Signature:	
Company:	Tetra Tech	Signature Date:	
Address:	17885 Von Karman Ave, Suite 500	CEA/ HERS Certification Identification (if applicable):	
City/State/Zip:	Irvine/CA/92886	Phone:	949-809-5105

RESPONSIBLE PERSON'S DECLARATION STATEMENT

I certify the following under penalty of perjury, under the laws of the State of California:

1. **The information provided on this Certificate of Compliance is true and correct.**
2. **I am eligible under Division 3 of the Business and Professions Code to accept responsibility for the building design or system design identified on this Certificate of Compliance (responsible designer)**
3. **The energy features and performance specifications, materials, components, and manufactured devices for the building design or system design identified on this Certificate of Compliance conform to the requirements of Title 24, Part 1 and Part 6 of the California Code of Regulations.**
4. **The building design features or system design features identified on this Certificate of Compliance are consistent with the information provided on other applicable compliance documents, worksheets, calculations, plans and specifications submitted to the enforcement agencyfor approval with this building permit application.**
5. **I will ensure that a completed signed copy of this Certificate of Compliance shall be made available with the building permit(s) issued for the building, and made available to the enforcement agency for all applicable inspections. I understand that a completed signed copy of this Certificate of Compliance is required to be included with the documentation the builder provides to the building owner at occupancy.**

Responsible Designer Name:		Responsible Designer Signature:	
Company :	Tetra Tech	Date Signed:	
Address:	17885 Von Karman Ave, Suite 500	License:	E-15809
City/State/Zip:	Irvine/CA/92886	Phone:	949-809-5137

PLANS PREPARED BY:
TETRA TECH, INC.
707 WILSHIRE BLVD, 23RD FLR.
LOS ANGELES, CA 90017
PHONE: (213) 239-8866

CITY OF LOS ANGELES — DEPARTMENT OF PUBLIC WORKS — BUREAU OF ENGINEERING

VERT. CONTROL: BM 12-04070, 1929 (NGVD29) - 1985 ADJUSTMENT
HORIZ. CONTROL: GPS; PID AE 1704, EPOCH 1991.35

SHEET TITLE: TITLE 24 WEST PARK RESTROOMS - INDOOR
PROJECT: SIXTH STREET PARK, ARTS AND RIVER CONNECTIVITY IMPROVEMENTS (PARC)
ADDRESS: SIXTH STREET OVER THE LOS ANGELES RIVER

GARY LEE MOORE, P.E., ENV SP — CITY ENGINEER
DESIGN GROUP
ENGINEER: LIC. NO. E-15809 DATE: 07/11/22
DESIGNED BY: JAMES ROBERTS
DRAWN BY: JAMES ROBERTS
CHECKED BY: MAZEN KASSAR
APPROVED BY: MAZEN KASSAR

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REGISTERED PROFESSIONAL ENGINEER — MAZEN KASSAR — No. E 15809 — Exp. 12-31-22 — ELECTRICAL — STATE OF CALIFORNIA

NO.	REVISIONS:	DATE:	BY:

INDEX NO.

BUILDING NO.

ENGINEERING — CITY OF LOS ANGELES

WORK ORDER NO. E700235D
FILE NO. --
DRAWING NO. E-702
SHEET 188 OF 295 SHEETS

7/11/2022 8:27:58 PM - O:\PROJECTS\IRVINE\20043\200-20043-17001\CAD\SHEETFILES\E-702 TITLE 24 WEST PARK RESTROOMS - INDOOR.DWG - ROBERTS, JAMES1

BID SET - NOT FOR CONSTRUCTION

STATE OF CALIFORNIA
Indoor Lighting
NRCC-LTI-E (Created 04/21)

CALIFORNIA ENERGY COMMISSION

CERTIFICATE OF COMPLIANCE			NRCC-LTI-E
This document is used to demonstrate compliance with requirements in §110.9, §110.12(c), §130.0, §130.1, §140.6, and §141.0(b)2 for indoor lighting scopes using the prescriptive path.			
Project Name:	Sixth Street Park, Arts and River Connectivity Improvements	Report Page:	Page 1 of 6
Project Address:	Sixth Street over the Los Angeles River	Date Prepared:	05/26/2022

A. GENERAL INFORMATION

01	Project Location (city)	Los Angeles	04	Total Conditioned Floor Area (ft²)	577
02	Climate Zone	9	05	Total Unconditioned Floor Area (ft²)	0
03	Occupancy Types Within Project (select all that apply):		06	# of Stories (Habitable Above Grade)	1

☐ Office ☐ Retail ☐ Warehouse ☐ Hotel/Motel ☐ School ☐ Support Areas
☐ Parking Garage ☐ High-Rise Residential ☐ Relocatable ☐ Healthcare ☑ Other (write in): PARC West Cafe

B. PROJECT SCOPE

Table Instructions: Include any lighting systems that are within the scope of the permit application and are demonstrating compliance using the prescriptive path outlined in §140.6 or §141.0(b)2 for alterations. WARNING: Changing the Calculation Method in this table will result in the deletion of data previously input. If you need to change the calculation method, please open a new form or use "Save As".

Scope of Work	Conditioned Spaces		Unconditioned Spaces	
01	02	03	04	05
My Project Consists of (check all that apply):	Calculation Method	Area (ft²)	Calculation Method	Area (ft²)
☑ New Lighting System	Area Category	577	Area Category	0
☐ Altered Lighting System		0		0
Total Area of Work (ft²)	577		0	

C. COMPLIANCE RESULTS

Table Instructions: If any cell on this table says "DOES NOT COMPLY" or "COMPLIES with Exceptional Conditions" refer to Table D. for guidance.

Lighting in conditioned and unconditioned spaces must not be combined for compliance per §140.6(b)1.	Allowed Lighting Power per §140.6(b) (Watts)							Adjusted Lighting Power per §140.6(a) (Watts)				Compliance Results
	01	02	03	04		05		06	07		08	09
	Complete Building §140.6(c)1	Area Category §140.6(c)2	Area Category Additional §140.6(c)2G (+)	Tailored §140.6(c)3 (+)	=	Total Allowed (Watts)	≥	Total Designed (Watts)	Adjustments PAF Control Credits §140.6(a)2 (-)	=	Total Adjusted (Watts) *Includes Adjustments	05 Must be ≥ 08 §140.6
	(See Table I)	(See Table I)	(See Table J)	(See Table K)				(See Table F)	(See Table P)			
Conditioned:		548.15	0		=	548.15	≥	481	33.4	=	447.6	COMPLIES
Unconditioned:					=		≥			=		

Table Continued

CA Building Energy Efficiency Standards - 2019 Nonresidential Compliance: http://www.energy.ca.gov/title24/2019standards April 2021

STATE OF CALIFORNIA
Indoor Lighting
NRCC-LTI-E (Created 04/21)

CALIFORNIA ENERGY COMMISSION

CERTIFICATE OF COMPLIANCE			NRCC-LTI-E
Project Name:	Sixth Street Park, Arts and River Connectivity Improvements	Report Page:	Page 2 of 6
Project Address:	Sixth Street over the Los Angeles River	Date Prepared:	05/26/2022

Controls Compliance (See Table H for Details)	COMPLIES
Rated Power Reduction Compliance (See Table Q for Details)	Not Applicable

D. EXCEPTIONAL CONDITIONS

This table is auto-filled with uneditable comments because of selections made or data entered in tables throughout the form.

No exceptional conditions apply to this project.

E. ADDITIONAL REMARKS

This table includes remarks made by the permit applicant to the Authority Having Jurisdiction.

F. INDOOR LIGHTING FIXTURE SCHEDULE

Table Instructions: Include all permanent designed lighting and all portable lighting in offices.

Designed Wattage: Conditioned Spaces

01	02	03	04	05	06	07	08	09	10	
Name or Item Tag	Complete Luminaire Description	Modular (Track) Fixture	Small Aperture & Color Change[1]	Watts per luminaire[2]	How Wattage is determined	Total number luminaires	Exempt per §140.6(a)3	Design Watts	Field Inspector Pass	Fail
XF11	LED downlights	☐	☐	26	Mfr. Spec[2]	16	☐	416	☐	☐
XF12A	LED lensed strip light	☐	☐	13	Mfr. Spec[2]	5	☐	65	☐	☐
							Total Designed Watts CONDITIONED SPACES:	481		

[1] *FOOTNOTE: Design Watts for small aperture and color changing luminaires which qualify per §140.6(a)4B is adjusted to be 75% of their rated wattage. Table F automatically makes this adjustment, the permit applicant should enter full rated wattage in column 05.*
[2] *Authority Having Jurisdiction may ask for Luminaire cut sheets to confirm wattage used for compliance per §130.0(c) Wattage used must be the maximum rated for the luminaire, not the lamp.*

G. MODULAR LIGHTING SYSTEMS

This Section Does Not Apply

H. INDOOR LIGHTING CONTROLS (Not Including PAFs)

CA Building Energy Efficiency Standards - 2019 Nonresidential Compliance: http://www.energy.ca.gov/title24/2019standards April 2021

STATE OF CALIFORNIA
Indoor Lighting
NRCC-LTI-E (Created 04/21)

CALIFORNIA ENERGY COMMISSION

CERTIFICATE OF COMPLIANCE			NRCC-LTI-E
Project Name:	Sixth Street Park, Arts and River Connectivity Improvements	Report Page:	Page 3 of 6
Project Address:	Sixth Street over the Los Angeles River	Date Prepared:	05/26/2022

*Table Instructions: Please include lighting controls for conditioned and unconditioned spaces in this table. When an option having a * is selected, the notes section of this table must be completed. The lighting controls section of the Compliance Summary Table on the first page will show "DOES NOT COMPLY" if the notes are left blank.*

Building Level Controls

01	02	03	
Mandatory Demand Response §110.12(c)	Shut-Off Controls §130.1(c)	Field Inspector Pass	Fail
Not Required ≤ 10,000 SF	See Area/Space Level Controls	☐	☐

Area Level Controls

04	05	06	07	08	09	10	11	12	
Area Description	Complete Building or Area Category Primary Function Area	Area Controls §130.1(a)	Multi-Level Controls §130.1(b)	Shut-Off Controls §130.1(c)	Primary/Skylit Daylighting §130.1(d)	Secondary Daylighting §140.6(d)	Interlocked Systems §140.6(a)1	Field Inspector Pass	Fail
PARC West Cafe	Kitchen, Food Preparation	Manual ON/OFF	Bi-level Switch	Occ. Sensor	NA	NA	☐	☐	☐

*NOTES: Controls with a * require a note in the space below explaining how compliance is achieved.
EX: Conference 1: Primary/Skylight Daylighting: Exempt because less than 120 watts of general lighting; EXCEPTION 1 to §130.1(d)2

13 — Plan Sheet Showing Daylit Zones:

I. LIGHTING POWER ALLOWANCE: COMPLETE BUILDING OR AREA CATEGORY METHODS

Table Instructions: Complete the table for each area complying using the Complete Building or Area Category Methods per §140.6(b). Indicate if additional lighting power allowances per §140.6(c) or adjustments per §140.6(a) are being used.

Conditioned Spaces

01	02	03	04	05	06	
Area Description	Complete Building or Area Category Primary Function Area	Allowed Density (W/ft²)	Area (ft²)	Allowed Wattage (Watts)	Additional Allowances / Adjustment: Area Category	PAF
PARC West Cafe	Kitchen, Food Preparation	0.95	577	548.15	☐	☑
		TOTAL:	577	548.15	See Tables J or P for detail	

CA Building Energy Efficiency Standards - 2019 Nonresidential Compliance: http://www.energy.ca.gov/title24/2019standards April 2021

STATE OF CALIFORNIA
Indoor Lighting
NRCC-LTI-E (Created 04/21)

CALIFORNIA ENERGY COMMISSION

CERTIFICATE OF COMPLIANCE			NRCC-LTI-E
Project Name:	Sixth Street Park, Arts and River Connectivity Improvements	Report Page:	Page 4 of 6
Project Address:	Sixth Street over the Los Angeles River	Date Prepared:	05/26/2022

J. ADDITIONAL LIGHTING ALLOWANCE: AREA CATEGORY METHOD QUALIFYING LIGHTING SYSTEM

Table Instructions: Please complete the table for all areas indicated in Table I as using an additional allowance per the Area Category Method in Table 140.6-C.

K. TAILORED METHOD GENERAL LIGHTING POWER ALLOWANCE

This Section Does Not Apply

L. ADDITIONAL LIGHTING ALLOWANCE: TAILORED WALL DISPLAY

This Section Does Not Apply

M. ADDITIONAL LIGHTING ALLOWANCE: TAILORED FLOOR AND TASK LIGHTING

This Section Does Not Apply

N. ADDITIONAL LIGHTING ALLOWANCE: TAILORED ORNAMENTAL/SPECIAL EFFECTS

This Section Does Not Apply

O. ADDITIONAL LIGHTING ALLOWANCE: TAILORED VERY VALUABLE MERCHANDISE

This Section Does Not Apply

P. POWER ADJUSTMENT: LIGHTING CONTROL CREDIT (POWER ADJUSTMENT FACTOR (PAF))

Table Instructions: Please complete the table for all areas indicated in Table I or Table K as using a PAF credit described in §140.6(a)2.

PARC West Cafe	☒	☐	☐	☐	☐	☐	☐	☐	☐	☐	XF11	26	16	416	41.6
											XF12A	13	5	65	6.5

FOOTNOTES: PAFs outlined in Table 140.6-A include 1) Daylight dimming plus OFF; 2A) Occupant sensors in offices ≤ 125 ft²; 2B) Occupant sensors in offices from 126 - 250 ft²; 2C) Occupant sensors in offices from 251 - 500 ft²; 3A) Institutional tuning, non-daylit areas; 3B) Institutional tuning, daylit areas; 4) Demand response; 5) Clerestory fenestration; 6) Horizontal slots; 7) Light shelves.
Luminaires that qualify for PAF 5, 6, or 7 can be used in conjunction with PAF 1.

Q. RATED POWER REDUCTION COMPLIANCE FOR ALTERATIONS

This Section Does Not Apply

R. 80% LIGHTING POWER FOR ALTERATIONS - CONTROLS EXCEPTIONS

This Section Does Not Apply

CA Building Energy Efficiency Standards - 2019 Nonresidential Compliance: http://www.energy.ca.gov/title24/2019standards April 2021

PLANS PREPARED BY:
TETRA TECH, INC.
707 WILSHIRE BLVD, 23RD FLR.
LOS ANGELES, CA 90017
PHONE: (213) 239-8866

CITY OF LOS ANGELES DEPARTMENT OF PUBLIC WORKS BUREAU OF ENGINEERING

VERT. CONTROL: BM 12-04070, 1929 (NGVD29) - 1985 ADJUSTMENT
HORIZ. CONTROL: GPS; PID AE 1704, EPOCH 1991.35

SHEET TITLE: TITLE 24 WEST PARK CAFÉ - INDOOR
PROJECT: SIXTH STREET PARK, ARTS AND RIVER CONNECTIVITY IMPROVEMENTS (PARC)
ADDRESS: SIXTH STREET OVER THE LOS ANGELES RIVER

GARY LEE MOORE, P.E., ENV SP — CITY ENGINEER
DESIGN GROUP
ENGINEER: LIC. NO. E-15809 DATE: 07/11/22
DESIGNED BY: JAMES ROBERTS
DRAWN BY: JAMES ROBERTS
CHECKED BY: MAZEN KASSAR
APPROVED BY: MAZEN KASSAR

THIS PLAN WAS ELECTRONICALLY SIGNED AND STAMPED.
REGISTERED PROFESSIONAL ENGINEER MAZEN KASSAR No. E 15809 Exp. 12-31-22 ELECTRICAL STATE OF CALIFORNIA

NO. REVISIONS: DATE: BY:
INDEX NO.
BUILDING NO.

ENGINEERING CITY OF LOS ANGELES

WORK ORDER NO. E700235D
FILE NO. --
DRAWING NO. E-703
SHEET 189 OF 295 SHEETS

7/11/2022 8:28:29 PM - O:\PROJECTS\IRVINE\20043\200-20043-17001\CAD\SHEETFILES\E-703 TITLE 24 WEST PARK CAFE - INDOOR.DWG - ROBERTS, JAMES1

BID SET - NOT FOR CONSTRUCTION

REVISION DATES (DESIGN STAGE ONLY)

THE CITY OF LOS ANGELES OR ITS OFFICERS OR AGENTS SHALL NOT BE RESPONSIBLE FOR THE ACCURACY OR COMPLETENESS OF ELECTRONIC COPIES OF THIS PLAN SHEET.

Sheet Version 3.0

STATE OF CALIFORNIA

Indoor Lighting

NRCC-LTI-E (Created 04/21)

CALIFORNIA ENERGY COMMISSION

CERTIFICATE OF COMPLIANCE			NRCC-LTI-E
Project Name:	Sixth Street Park, Arts and River Connectivity Improvements	Report Page:	Page 5 of 6
Project Address:	Sixth Street over the Los Angeles River	Date Prepared:	05/26/2022

S. DAYLIGHT DESIGN POWER ADJUSTMENT FACTOR (PAF)

This Section Does Not Apply

T. DECLARATION OF REQUIRED CERTIFICATES OF INSTALLATION

Table Instructions: Selections have been made based on information provided in previous tables of this document. If any selection needs to be changed, please explain why in Table E. Additional Remarks. These documents must be provided to the building inspector during construction and can be found online at https://ww2.energy.ca.gov/title24/2019standards/2019_compliance_documents/Nonresidential_Documents/NRCI/

YES	NO	Form/Title	Field Inspector Pass	Field Inspector Fail
●	○	NRCI-LTI-01-E - Must be submitted for all buildings	☐	☐
○	●	NRCI-LTI-02-E - Must be submitted for a lighting control system, or for an Energy Management Control System (EMCS), to be recognized for compliance.	☐	☐
○	●	NRCI-LTI-04-E - Must be submitted for two interlocked systems serving an auditorium, a convention center, a conference room, a multipurpose room, or a theater to be recognized for compliance.	☐	☐
●	○	NRCI-LTI-05-E - Must be submitted for a Power Adjustment Factor (PAF) to be recognized for compliance.	☐	☐
○	●	NRCI-LTI-06-E - Must be submitted for additional wattage installed in a video conferencing studio to be recognized for compliance.	☐	☐

U. DECLARATION OF REQUIRED CERTIFICATES OF ACCEPTANCE

Table Instructions: Selections have been made based on information provided in previous tables of this document. If any selection needs to be changed, please explain why in Table E. Additional Remarks. These documents must be provided to the building inspector during construction and any with "-A" in the form name must be completed through an Acceptance Test Technician Certification Provider (ATTCP). For more information visit: http://www.energy.ca.gov/title24/attcp/providers.html

YES	NO	Form/Title	Field Inspector Pass	Field Inspector Fail
●	○	NRCA-LTI-02-A - Must be submitted for occupancy sensors and automatic time switch controls.	☐	☐
○	●	NRCA-LTI-03-A - Must be submitted for automatic daylight controls.	☐	☐
○	●	NRCA-LTI-04-A - Must be submitted for demand responsive lighting controls.	☐	☐
○	●	NRCA-LTI-05-A - Must be submitted for institutional tuning power adjustment factor (PAF).	☐	☐
○	●	NRCA-ENV-03-F - Must be submitted for daylighting design power adjustment factors (PAF).	☐	☐

CA Building Energy Efficiency Standards - 2019 Nonresidential Compliance: http://www.energy.ca.gov/title24/2019standards April 2021

STATE OF CALIFORNIA

Indoor Lighting

NRCC-LTI-E (Created 04/21)

CALIFORNIA ENERGY COMMISSION

CERTIFICATE OF COMPLIANCE			NRCC-LTI-E
Project Name:	Sixth Street Park, Arts and River Connectivity Improvements	Report Page:	Page 6 of 6
Project Address:	Sixth Street over the Los Angeles River	Date Prepared:	05/26/2022

DOCUMENTATION AUTHOR'S DECLARATION STATEMENT

I certify that this Certificate of Compliance documentation is accurate and complete

Documentation Author Name:	James Roberts	Documentation Author Signature:	
Company:	Tetra Tech	Signature Date:	
Address:	17885 Von Karman Ave, Suite 500	CEA/ HERS Certification Identification (if applicable):	
City/State/Zip:	Irvine/CA/92886	Phone:	949-809-5105

RESPONSIBLE PERSON'S DECLARATION STATEMENT

I certify the following under penalty of perjury, under the laws of the State of California:

1. **The information provided on this Certificate of Compliance is true and correct.**
2. **I am eligible under Division 3 of the Business and Professions Code to accept responsibility for the building design or system design identified on this Certificate of Compliance (responsible designer)**
3. **The energy features and performance specifications, materials, components, and manufactured devices for the building design or system design identified on this Certificate of Compliance conform to the requirements of Title 24, Part 1 and Part 6 of the California Code of Regulations.**
4. **The building design features or system design features identified on this Certificate of Compliance are consistent with the information provided on other applicable compliance documents, worksheets, calculations, plans and specifications submitted to the enforcement agencyfor approval with this building permit application.**
5. **I will ensure that a completed signed copy of this Certificate of Compliance shall be made available with the building permit(s) issued for the building, and made available to the enforcement agency for all applicable inspections. I understand that a completed signed copy of this Certificate of Compliance is required to be included with the documentation the builder provides to the building owner at occupancy.**

Responsible Designer Name:		Responsible Designer Signature:	
Company :	Tetra Tech	Date Signed:	
Address:	17885 Von Karman Ave, Suite 500	License:	E-15809
City/State/Zip:	Irvine/CA/92886	Phone:	949-809-5137

CA Building Energy Efficiency Standards - 2019 Nonresidential Compliance: http://www.energy.ca.gov/title24/2019standards April 2021

THE CITY OF LOS ANGELES OR ITS OFFICERS OR AGENTS SHALL NOT BE RESPONSIBLE FOR THE ACCURACY OR COMPLETENESS OF ELECTRONIC COPIES OF THIS PLAN SHEET.

REVISION DATES (DESIGN STAGE ONLY)

Sheet Version 3.0

PLANS PREPARED BY: TETRA TECH, INC.
707 WILSHIRE BLVD, 23RD FLR.
LOS ANGELES, CA 90017
PHONE: (213) 239-8866

CITY OF LOS ANGELES — DEPARTMENT OF PUBLIC WORKS — BUREAU OF ENGINEERING

VERT. CONTROL: BM 12-04070, 1929 (NGVD29) - 1985 ADJUSTMENT
HORIZ. CONTROL: GPS; PID AE 1704, EPOCH 1991.35

SHEET TITLE: TITLE 24 WEST PARK CAFE - INDOOR
PROJECT: SIXTH STREET PARK, ARTS AND RIVER CONNECTIVITY IMPROVEMENTS (PARC)
ADDRESS: SIXTH STREET OVER THE LOS ANGELES RIVER

GARY LEE MOORE, P.E., ENV SP — CITY ENGINEER
DESIGN GROUP
ENGINEER: LIC. NO. E-15809 DATE: 07/11/22
DESIGNED BY: JAMES ROBERTS
DRAWN BY: JAMES ROBERTS
CHECKED BY: MAZEN KASSAR
APPROVED BY: MAZEN KASSAR

THIS PLAN WAS ELECTRONICALLY SIGNED AND STAMPED.

REGISTERED PROFESSIONAL ENGINEER — MAZEN KASSAR — No. E 15809 — Exp. 12-31-22 — ELECTRICAL — STATE OF CALIFORNIA

NO. REVISIONS: DATE: BY:

INDEX NO.

BUILDING NO.

ENGINEERING — CITY OF LOS ANGELES

WORK ORDER NO. E700235D
FILE NO. --
DRAWING NO. E-704
SHEET 190 OF 295 SHEETS

7/11/2022 8:29:04 PM - O:\PROJECTS\IRVINE\20043\200-20043-17001\CAD\SHEETFILES\E-704 TITLE 24 WEST PARK CAFE - INDOOR.DWG - ROBERTS, JAMES1

BID SET - NOT FOR CONSTRUCTION

STATE OF CALIFORNIA

Indoor Lighting

NRCC-LTI-E (Created 04/21) — CALIFORNIA ENERGY COMMISSION

CERTIFICATE OF COMPLIANCE		NRCC-LTI-E
This document is used to demonstrate compliance with requirements in §110.9, §110.12(c), §130.0, §130.1, §140.6, and §141.0(b)2 for indoor lighting scopes using the prescriptive path.		
Project Name: Sixth Street Park, Arts and River Connectivity Improvements	Report Page:	Page 1 of 7
Project Address: Sixth Street over the Los Angeles River	Date Prepared:	05/26/2022

A. GENERAL INFORMATION

01	Project Location (city)	Los Angeles	04	Total Conditioned Floor Area (ft²)	1,650
02	Climate Zone	9	05	Total Unconditioned Floor Area (ft²)	0
03	Occupancy Types Within Project (select all that apply):		06	# of Stories (Habitable Above Grade)	1

☐ Office	☐ Retail	☐ Warehouse	☐ Hotel/Motel	☐ School	☐ Support Areas
☐ Parking Garage	☐ High-Rise Residential	☐ Relocatable	☐ Healthcare	☑ Other (write in):	PARC East Buildings

B. PROJECT SCOPE

Table Instructions: Include any lighting systems that are within the scope of the permit application and are demonstrating compliance using the prescriptive path outlined in §140.6 or §141.0(b)2 for alterations. WARNING: Changing the Calculation Method in this table will result in the deletion of data previously input. If you need to change the calculation method, please open a new form or use "Save As".

Scope of Work	Conditioned Spaces		Unconditioned Spaces	
01	02	03	04	05
My Project Consists of (check all that apply):	Calculation Method	Area (ft²)	Calculation Method	Area (ft²)
☑ New Lighting System	Area Category	1,650	Area Category	0
☐ Altered Lighting System		0		0
Total Area of Work (ft²)	1,650		0	

C. COMPLIANCE RESULTS

Table Instructions: If any cell on this table says "DOES NOT COMPLY" or "COMPLIES with Exceptional Conditions" refer to Table D. for guidance.

Lighting in conditioned and unconditioned spaces must not be combined for compliance per §140.6(b)1.	Allowed Lighting Power per §140.6(b) (Watts)							Adjusted Lighting Power per §140.6(a) (Watts)				Compliance Results
	01	02	03	04		05		06	07		08	09
	Complete Building §140.6(c)1	Area Category §140.6(c)2	Area Category Additional §140.6(c)2G (+)	Tailored §140.6(c)3 (+)	=	Total Allowed (Watts)	≥	Total Designed (Watts)	Adjustments: PAF Control Credits §140.6(a)2 (-)	=	Total Adjusted (Watts) *Includes Adjustments	05 Must be ≥ 08 §140.6
	(See Table I)	(See Table I)	(See Table J)	(See Table K)				(See Table F)	(See Table P)			
Conditioned:		1,016.45	0		=	1,016.45	≥	767		=	767	COMPLIES
Unconditioned:					=		≥			=		

Table Continued

CA Building Energy Efficiency Standards - 2019 Nonresidential Compliance: http://www.energy.ca.gov/title24/2019standards — April 2021

STATE OF CALIFORNIA

Indoor Lighting

NRCC-LTI-E (Created 04/21) — CALIFORNIA ENERGY COMMISSION

CERTIFICATE OF COMPLIANCE		NRCC-LTI-E
Project Name: Sixth Street Park, Arts and River Connectivity Improvements	Report Page:	Page 2 of 7
Project Address: Sixth Street over the Los Angeles River	Date Prepared:	05/26/2022

Controls Compliance (See Table H for Details)	COMPLIES
Rated Power Reduction Compliance (See Table Q for Details)	Not Applicable

D. EXCEPTIONAL CONDITIONS

This table is auto-filled with uneditable comments because of selections made or data entered in tables throughout the form.

No exceptional conditions apply to this project.

E. ADDITIONAL REMARKS

This table includes remarks made by the permit applicant to the Authority Having Jurisdiction.

F. INDOOR LIGHTING FIXTURE SCHEDULE

Table Instructions: Include all permanent designed lighting and all portable lighting in offices.

Designed Wattage: Conditioned Spaces

01	02	03	04	05	06	07	08	09	10	
Name or Item Tag	Complete Luminaire Description	Modular (Track) Fixture	Small Aperture & Color Change[1]	Watts per luminaire[2]	How Wattage is determined	Total number luminaires	Exempt per §140.6(a)3	Design Watts	Field Inspector Pass	Fail
XF11	LED downlights	☐	☐	26	Mfr. Spec[2]	5	☐	130	☐	☐
XF12	LED lensed strip light	☐	☐	23	Mfr. Spec[2]	12	☐	276	☐	☐
XF15	LED lensed strip light	☐	☐	18	Mfr. Spec[2]	4	☐	72	☐	☐
XF15B	LED lensed strip light	☐	☐	26	Mfr. Spec[2]	4	☐	104	☐	☐
XF16	LED lensed strip light	☐	☐	37	Mfr. Spec[2]	5	☐	185	☐	☐
							Total Designed Watts CONDITIONED SPACES:	767		

[1] *FOOTNOTE: Design Watts for small aperture and color changing luminaires which qualify per §140.6(a)4B is adjusted to be 75% of their rated wattage. Table F automatically makes this adjustment, the permit applicant should enter full rated wattage in column 05.*

[2] *Authority Having Jurisdiction may ask for Luminaire cut sheets to confirm wattage used for compliance per §130.0(c) Wattage used must be the maximum rated for the luminaire, not the lamp.*

CA Building Energy Efficiency Standards - 2019 Nonresidential Compliance: http://www.energy.ca.gov/title24/2019standards — April 2021

STATE OF CALIFORNIA

Indoor Lighting

NRCC-LTI-E (Created 04/21) — CALIFORNIA ENERGY COMMISSION

CERTIFICATE OF COMPLIANCE		NRCC-LTI-E
Project Name: Sixth Street Park, Arts and River Connectivity Improvements	Report Page:	Page 3 of 7
Project Address: Sixth Street over the Los Angeles River	Date Prepared:	05/26/2022

G. MODULAR LIGHTING SYSTEMS

This Section Does Not Apply

H. INDOOR LIGHTING CONTROLS (Not Including PAFs)

*Table Instructions: Please include lighting controls for conditioned and unconditioned spaces in this table. When an option having a * is selected, the notes section of this table must be completed. The lighting controls section of the Compliance Summary Table on the first page will show "DOES NOT COMPLY" if the notes are left blank.*

Building Level Controls

01	02	03	
Mandatory Demand Response §110.12(c)	Shut-Off Controls §130.1(c)	Field Inspector Pass	Fail
Not Required ≤ 10,000 SF	See Area/Space Level Controls	☐	☐

Area Level Controls

04	05	06	07	08	09	10	11	12	
Area Description	Complete Building or Area Category Primary Function Area	Area Controls §130.1(a)	Multi-Level Controls §130.1(b)	Shut-Off Controls §130.1(c)	Primary/Skylit Daylighting §130.1(d)	Secondary Daylighting §140.6(d)	Interlocked Systems §140.6(a)1	Field Inspector Pass	Fail
PARC East Buildings - Office	Office (> 250 square feet)	Manual ON/ OFF	Bi-level Switch	Occ. Sensor	NA	NA	☐	☐	☐
PARC East Buildings - Restrooms	Restroom	Manual ON/ OFF	Bi-level Switch	Occ. Sensor	NA	NA	☐	☐	☐
PARC East Buildings - Electrical/ Storage	Electrical, Mechanical, Telephone Rooms	Manual ON/ OFF	Bi-level Switch	Occ. Sensor	NA	NA	☐	☐	☐
PARC East Buildings - Concessions	Kitchen, Food Preparation	Manual ON/ OFF	Bi-level Switch	Occ. Sensor	NA	NA	☐	☐	☐

*NOTES: Controls with a * require a note in the space below explaining how compliance is achieved.
EX: Conference 1: Primary/Skylight Daylighting: Exempt because less than 120 watts of general lighting; EXCEPTION 1 to §130.1(d)2

13 — Plan Sheet Showing Daylit Zones:

I. LIGHTING POWER ALLOWANCE: COMPLETE BUILDING OR AREA CATEGORY METHODS

Table Instructions: Complete the table for each area complying using the Complete Building or Area Category Methodsper §140.6(b). Indicate if additional lighting power allowances per §140.6(c) or adjustments per §140.6(a) are being used.

Conditioned Spaces

CA Building Energy Efficiency Standards - 2019 Nonresidential Compliance: http://www.energy.ca.gov/title24/2019standards — April 2021

STATE OF CALIFORNIA

Indoor Lighting

NRCC-LTI-E (Created 04/21) — CALIFORNIA ENERGY COMMISSION

CERTIFICATE OF COMPLIANCE		NRCC-LTI-E
Project Name: Sixth Street Park, Arts and River Connectivity Improvements	Report Page:	Page 4 of 7
Project Address: Sixth Street over the Los Angeles River	Date Prepared:	05/26/2022

01	02	03	04	05	06	
Area Description	Complete Building or Area Category Primary Function Area	Allowed Density (W/ft²)	Area (ft²)	Allowed Wattage (Watts)	Additional Allowances / Adjustment: Area Category	PAF
PARC East Buildings - Office	Office (> 250 square feet)	0.65	631	410.15	☐	☐
PARC East Buildings - Restroom	Restroom	0.65	250	162.5	☐	☐
PARC East Buildings - Electrical	Electrical, Mechanical, Telephone Rooms	0.4	530	212	☐	☐
PARC East Buildings - Concessions	Kitchen, Food Preparation	0.95	244	231.8	☐	☐
		TOTAL:	1,655	1,016.45	See Tables I or P for detail	

J. ADDITIONAL LIGHTING ALLOWANCE: AREA CATEGORY METHOD QUALIFYING LIGHTING SYSTEM

Table Instructions: Please complete the table for all areas indicated in Table I as using an additional allowance per the Area Category Method in Table 140.6-C.

K. TAILORED METHOD GENERAL LIGHTING POWER ALLOWANCE

This Section Does Not Apply

L. ADDITIONAL LIGHTING ALLOWANCE: TAILORED WALL DISPLAY

This Section Does Not Apply

M. ADDITIONAL LIGHTING ALLOWANCE: TAILORED FLOOR AND TASK LIGHTING

This Section Does Not Apply

N. ADDITIONAL LIGHTING ALLOWANCE: TAILORED ORNAMENTAL/SPECIAL EFFECTS

This Section Does Not Apply

O. ADDITIONAL LIGHTING ALLOWANCE: TAILORED VERY VALUABLE MERCHANDISE

This Section Does Not Apply

P. POWER ADJUSTMENT: LIGHTING CONTROL CREDIT (POWER ADJUSTMENT FACTOR (PAF))

This Section Does Not Apply

CA Building Energy Efficiency Standards - 2019 Nonresidential Compliance: http://www.energy.ca.gov/title24/2019standards — April 2021

REVISION DATES (DESIGN STAGE ONLY)

PLANS PREPARED BY: TETRA TECH, INC.
707 WILSHIRE BLVD, 23RD FLR.
LOS ANGELES, CA 90017
PHONE: (213) 239-8866

CITY OF LOS ANGELES — DEPARTMENT OF PUBLIC WORKS — BUREAU OF ENGINEERING

VERT. CONTROL: BM 12-04070, 1929 (NGVD29) - 1985 ADJUSTMENT
HORIZ. CONTROL: GPS; PID AE 1704, EPOCH 1991.35

SHEET TITLE: TITLE 24 EAST PARK BUILDINGS - INDOOR
PROJECT: SIXTH STREET PARK, ARTS AND RIVER CONNECTIVITY IMPROVEMENTS (PARC)
ADDRESS: SIXTH STREET OVER THE LOS ANGELES RIVER

GARY LEE MOORE, P.E., ENV SP — CITY ENGINEER
DESIGN GROUP — LIC. NO. E-15809 — DATE: 07/11/22
ENGINEER:
DESIGNED BY: JAMES ROBERTS
DRAWN BY: JAMES ROBERTS
CHECKED BY: MAZEN KASSAR
APPROVED BY: MAZEN KASSAR

• THIS PLAN WAS ELECTRONICALLY SIGNED AND STAMPED •
REGISTERED PROFESSIONAL ENGINEER MAZEN KASSAR No. E 15809 Exp. 12-31-22 ELECTRICAL STATE OF CALIFORNIA

NO. | REVISIONS | DATE | BY

INDEX NO.

BUILDING NO.

ENGINEERING — CITY OF LOS ANGELES

WORK ORDER NO. E700235D
FILE NO. --
DRAWING NO. E-705
SHEET 191 OF 295 SHEETS

7/11/2022 8:29:40 PM - O:\PROJECTS\IRVINE\20043\200-20043-17001\CAD\SHEETFILES\E-705 TITLE 24 EAST PARK BUILDINGS - INDOOR.DWG - ROBERTS, JAMES1

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Sheet Version 3.0

STATE OF CALIFORNIA
Indoor Lighting
NRCC-LTI-E (Created 04/21) CALIFORNIA ENERGY COMMISSION

CERTIFICATE OF COMPLIANCE			NRCC-LTI-E
Project Name:	Sixth Street Park, Arts and River Connectivity Improvements	Report Page:	Page 5 of 7
Project Address:	Sixth Street over the Los Angeles River	Date Prepared:	05/26/2022

Q. RATED POWER REDUCTION COMPLIANCE FOR ALTERATIONS
This Section Does Not Apply

R. 80% LIGHTING POWER FOR ALTERATIONS - CONTROLS EXCEPTIONS
This Section Does Not Apply

S. DAYLIGHT DESIGN POWER ADJUSTMENT FACTOR (PAF)
This Section Does Not Apply

T. DECLARATION OF REQUIRED CERTIFICATES OF INSTALLATION
Table Instructions: Selections have been made based on information provided in previous tables of this document. If any selection needs to be changed, please explain why in Table E. Additional Remarks. These documents must be provided to the building inspector during construction and can be found online at https://ww2.energy.ca.gov/title24/2019standards/2019_compliance_documents/Nonresidential_Documents/NRCI/

YES	NO	Form/Title	Field Inspector Pass	Field Inspector Fail
●	○	NRCI-LTI-01-E - Must be submitted for all buildings	☐	☐
○	●	NRCI-LTI-02-E - Must be submitted for a lighting control system, or for an Energy Management Control System (EMCS), to be recognized for compliance.	☐	☐
○	●	NRCI-LTI-04-E - Must be submitted for two interlocked systems serving an auditorium, a convention center, a conference room, a multipurpose room, or a theater to be recognized for compliance.	☐	☐
○	●	NRCI-LTI-05-E - Must be submitted for a Power Adjustment Factor (PAF) to be recognized for compliance.	☐	☐
○	●	NRCI-LTI-06-E - Must be submitted for additional wattage installed in a video conferencing studio to be recognized for compliance.	☐	☐

STATE OF CALIFORNIA
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CERTIFICATE OF COMPLIANCE			NRCC-LTI-E
Project Name:	Sixth Street Park, Arts and River Connectivity Improvements	Report Page:	Page 6 of 7
Project Address:	Sixth Street over the Los Angeles River	Date Prepared:	05/26/2022

U. DECLARATION OF REQUIRED CERTIFICATES OF ACCEPTANCE
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YES	NO	Form/Title	Field Inspector Pass	Field Inspector Fail
●	○	NRCA-LTI-02-A - Must be submitted for occupancy sensors and automatic time switch controls.	☐	☐
○	●	NRCA-LTI-03-A - Must be submitted for automatic daylight controls.	☐	☐
○	●	NRCA-LTI-04-A - Must be submitted for demand responsive lighting controls.	☐	☐
○	●	NRCA-LTI-05-A - Must be submitted for institutional tuning power adjustment factor (PAF).	☐	☐
○	●	NRCA-ENV-03-F - Must be submitted for daylighting design power adjustment factors (PAF).	☐	☐

STATE OF CALIFORNIA
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Project Name:	Sixth Street Park, Arts and River Connectivity Improvements	Report Page:	Page 7 of 7
Project Address:	Sixth Street over the Los Angeles River	Date Prepared:	05/26/2022

DOCUMENTATION AUTHOR'S DECLARATION STATEMENT
I certify that this Certificate of Compliance documentation is accurate and complete

Documentation Author Name:	James Roberts	Documentation Author Signature:	
Company:	Tetra Tech	Signature Date:	
Address:	17885 Von Karman Ave, Suite 500	CEA/ HERS Certification Identification (if applicable):	
City/State/Zip:	Irvine/CA/92886	Phone:	949-809-5105

RESPONSIBLE PERSON'S DECLARATION STATEMENT

I certify the following under penalty of perjury, under the laws of the State of California:

1. **The information provided on this Certificate of Compliance is true and correct.**
2. **I am eligible under Division 3 of the Business and Professions Code to accept responsibility for the building design or system design identified on this Certificate of Compliance (responsible designer)**
3. **The energy features and performance specifications, materials, components, and manufactured devices for the building design or system design identified on this Certificate of Compliance conform to the requirements of Title 24, Part 1 and Part 6 of the California Code of Regulations.**
4. **The building design features or system design features identified on this Certificate of Compliance are consistentwith the information provided on other applicable compliance documents, worksheets, calculations, plans and specifications submitted to the enforcement agencyfor approval with this building permit application.**
5. **I will ensure that a completed signed copy of this Certificate of Compliance shall be made available with the building permit(s) issued for the building, and made available to the enforcement agency for all applicable inspections. I understand that a completed signed copy of this Certificate of Compliance is required to be included with the documentation the builder provides to the building owner at occupancy.**

Responsible Designer Name:	Mazen Kassar	Responsible Designer Signature:	
Company :	Tetra Tech	Date Signed:	
Address:	17885 Von Karman Ave, Suite 500	License:	E-15809
City/State/Zip:	Irvine/CA/92886	Phone:	949-809-5137

PLANS PREPARED BY:
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REGISTERED PROFESSIONAL ENGINEER — MAZEN KASSAR — No. E 15809 — Exp. 12-31-22 — ELECTRICAL — STATE OF CALIFORNIA

NO. REVISIONS: DATE: BY:
INDEX NO.
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ENGINEERING — CITY OF LOS ANGELES

WORK ORDER NO. E700235D
FILE NO. --
DRAWING NO. E-706
SHEET 192 OF 295 SHEETS

7/11/2022 8:30:14 PM - O:\PROJECTS\IRVINE\20043\200-20043-17001\CAD\SHEETFILES\E-706 TITLE 24 EAST PARK BUILDINGS - INDOOR.DWG - ROBERTS, JAMES1

BID SET - NOT FOR CONSTRUCTION

THE CITY OF LOS ANGELES OR ITS OFFICERS OR AGENTS SHALL NOT BE RESPONSIBLE FOR THE ACCURACY OR COMPLETENESS OF ELECTRONIC COPIES OF THIS PLAN SHEET.

STATE OF CALIFORNIA

Outdoor Lighting

NRCC-LTO-E (Created 01/21) — CALIFORNIA ENERGY COMMISSION

CERTIFICATE OF COMPLIANCE			NRCC-LTO-E
This document is used to demonstrate compliance with requirements in §110.9, §130.0, §130.2, §140.7, and §141.0(b)2L for outdoor lighting scopes using the prescriptive path.			
Project Name:	Sixth Street Park, Arts and River Connectivity Improvements	Report Page:	Page 1 of 7
Project Address:	Sixth Street over the Los Angeles River	Date Prepared:	05/24/2022

A. GENERAL INFORMATION

01	Project Location (city)	Los Angeles	04	Total Illuminated Hardscape Area (ft²)	434,200
02	Climate Zone	9			
03	Outdoor Lighting Zone per Title 24, Part 1 §10-114 or as designated by Authority Having Jurisdiction (AHJ):				

- [ ] LZ-0: Very Low - Undeveloped Parkland
- [ ] LZ-1: Low - Developed Parkland
- [ ] LZ-2: Moderate - Rural Areas
- [x] LZ-3: Moderately High - Urban Areas
- [ ] LZ-4: High - Must be reviewed by CA Energy Commission for Approval

B. PROJECT SCOPE

Table Instructions: Include any outdoor lighting systems that are within the scope of the permit application and are demonstrating compliance using the prescriptive path outlined in §140.7 or §141.0(b)2L for alterations.

My project consists of:

01	02	
[x] New Lighting System	Must Comply with Allowances from §140.7.	
[ ] Altered Lighting System	Is your alteration increasing the connected lighting load (Watts)?	◯ Yes ◯ No
03	**04**	**05**
% of Existing Luminaires Being Altered[1]	Sum Total of Luminaires Being Added or Altered	Calculation Method

[1] FOOTNOTES: % of Existing Luminaires Being Altered = (Sum Total of Luminaires Being Added or Altered / Existing Luminaires within the Scope of the Permit Application) x 100

C. COMPLIANCE RESULTS

Table Instructions: If any cell on this table says "DOES NOT COMPLY" or "COMPLIES with Exceptional Conditions" refer to Table D. for guidance.

Calculation of Total Allowed Lighting Power (Watts) §140.7 or §141.0(b)2L / Compliance Results

01 General Hardscape Allowance §140.7(d)1 (See Table I)		02 Per Application §140.7(d)2 (See Table J)		03 Sales Frontage §140.7(d)2 (See Table K)		04 Ornamental §140.7(d)2 (See Table L)		05 Per Specific Area §140.7(d)2 (See Table M)		06 Existing Power §141.0(b)2L (See Table N)		07 Total Allowed (Watts)		08 Total Actual (Watts) (See Table F)	09 07 Must be ≥ 08
16,647.644	+		+		+		+		OR		=	16,647.544	≥	12,684	COMPLIES

Cutoff Compliance (See Table G for Details)	Not Applicable
Controls Compliance (See Table H for Details)	COMPLIES with Exceptional Conditions

CA Building Energy Efficiency Standards - 2019 Nonresidential Compliance: http://www.energy.ca.gov/title24/2019standards — January 2021

STATE OF CALIFORNIA

Outdoor Lighting

NRCC-LTO-E (Created 01/21) — CALIFORNIA ENERGY COMMISSION

CERTIFICATE OF COMPLIANCE			NRCC-LTO-E
Project Name:	Sixth Street Park, Arts and River Connectivity Improvements	Report Page:	Page 2 of 7
Project Address:	Sixth Street over the Los Angeles River	Date Prepared:	05/24/2022

D. EXCEPTIONAL CONDITIONS

This table is auto-filled with uneditable comments because of selections made or data entered in tables throughout the form.

Table F. Outdoor Lighting Fixture Schedule Permit Applicant Notes:
XF1/XF2: Exception 6 - Public right of way
XF4/XF4A: Exception 6 - Public right of way
XF6: Exception 6 - Public right of way
XF14: Exception 6 - Public right of way
XF13: Exception 6 - Public right of way
Table H. Outdoor Lighting Controls Permit Applicant Notes:
Sports Lighting: Sports lighting controls
Theater Lighting: Theater lighting controls
A luminaire in Table F may be required to comply with Cutoff Requirements, but nothing has been selected in Table F. Column 09.
Linear lighting has been indicated on Table F. For these luminaires, wattage reported in F03 is in "W/lf" and Total Number Luminaires reported in F05 indicates total linear feet (lf) of that luminaire type.

E. ADDITIONAL REMARKS

This table includes remarks made by the permit applicant to the Authority Having Jurisdiction.

F. OUTDOOR LIGHTING FIXTURE SCHEDULE

Table Instructions: For new or altered lighting systems demonstrating compliance with §140.7 (ie Table I has expanded for input), include all luminaires being installed and any existing luminaires remaining or being moved within the spaces covered by the permit application in the Table below. For altered lighting systems using the Existing Power method per §141.0(b)2L (ie Table N has expanded for input), include only new luminaires being installed and replacement luminaires being installed as part of the project scope (ie, do not include existing luminaires remaining or existing luminaires being moved).

Designed Wattage:

01 Name or Item Tag	02 Complete Luminaire Description	Linear	03 Watts per luminaire[1,2]	04 How Wattage is determined	05 Total number luminaires[2]	06 Luminaire Status[3]	07 Excluded per §140.7(a)	08 Design Watts	09 Cutoff Req. ≥ 6,200 initial lumen output §130.2(b)[4]	10 Field Inspector Pass	Fail
XF1/XF2	LED pole mounted light	[ ] Linear	75	Mfr. Spec[1]	85	New	[ ]	6,375	Exempt*	[ ]	[ ]
XF4/XF4A	LED pole accent lights	[ ] Linear	42	Mfr. Spec[1]	20	New	[ ]	840	Exempt*	[ ]	[ ]
XF6	LED tunnel downlights	[ ] Linear	40	Mfr. Spec[1]	72	New	[ ]	2,880	Exempt*	[ ]	[ ]

Table Continued

CA Building Energy Efficiency Standards - 2019 Nonresidential Compliance: http://www.energy.ca.gov/title24/2019standards — January 2021

STATE OF CALIFORNIA

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Project Address:	Sixth Street over the Los Angeles River	Date Prepared:	05/24/2022

01 Name or Item Tag	02 Complete Luminaire Description	Linear	03 Watts per luminaire[1,2]	04 How Wattage is determined	05 Total number luminaires[2]	06 Luminaire Status[3]	07 Excluded per §140.7(a)	08 Design Watts	09 Cutoff Req. ≥ 6,200 initial lumen output §130.2(b)[4]	10 Field Inspector Pass	Fail
XF7	LED colored theatrical	[ ] Linear	180	Mfr. Spec[1]	12	New	[x]			[ ]	[ ]
XF7/XF8	LED accent theatrical	[ ] Linear	42	Mfr. Spec[1]	36	New	[x]			[ ]	[ ]
XF8	LED colored theatrical	[ ] Linear	124	Mfr. Spec[1]	16	New	[x]			[ ]	[ ]
XF9	LED colored wall light	[x] Linear	17.25	Mfr. Spec[1]	160	New	[x]			[ ]	[ ]
XF10	LED sports lights	[ ] Linear	551	Mfr. Spec[1]	16	New	[x]			[ ]	[ ]
XF10A	LED sports lights	[ ] Linear	594	Mfr. Spec[1]	6	New	[x]			[ ]	[ ]
XF10B	LED sports lights	[ ] Linear	505	Mfr. Spec[1]	6	New	[x]			[ ]	[ ]
XF13	LED path lighting	[ ] Linear	48	Mfr. Spec[1]	53	New	[ ]	2,544	Exempt*	[ ]	[ ]
XF14	LED handrail downlight	[ ] Linear	1.5	Mfr. Spec[1]	30	New	[ ]	45	Exempt*	[ ]	[ ]
		[ ] Linear					[ ]	0		[ ]	[ ]
		[ ] Linear					[ ]	0		[ ]	[ ]
							Total Designed Watts:	12,684			

* NOTES: Selections with a * require a note in the space below explaining how compliance is achieved.
EX: Luminaire is lighting a statue; EXCEPTION 2 to §130.2(b).

XF1/XF2	Exception 6 - Public right of way
XF4/XF4A	Exception 6 - Public right of way
XF6	Exception 6 - Public right of way
XF14	Exception 6 - Public right of way
XF13	Exception 6 - Public right of way

[1] FOOTNOTES: Authority Having Jurisdiction may ask for Luminaire cut sheets to confirm wattage used for compliance per §130.0(c)
[2] For linear luminaires, wattage should be indicated as W/lf instead of Watts/luminaire. Total linear feet for the luminaire should be indicated in column 05 instead of number of luminaires.
[3] Select "New" for new luminaires in a new outdoor lighting project or for added luminaires in an alteration. Select "Altered" for replacement luminaires in an alteration. Select "Existing to Remain" for existing luminaires within the project scope that are not being altered and are remaining. Select "Existing Reinstalled" for existing luminaires which are being removed and reinstalled as part of the project scope
[4] Compliance with mandatory cutoff requirements is required for luminaires with initial lumen output ≥ 6,200 unless exempted by §130.2(b).

CA Building Energy Efficiency Standards - 2019 Nonresidential Compliance: http://www.energy.ca.gov/title24/2019standards — January 2021

STATE OF CALIFORNIA

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CERTIFICATE OF COMPLIANCE			NRCC-LTO-E
Project Name:	Sixth Street Park, Arts and River Connectivity Improvements	Report Page:	Page 4 of 7
Project Address:	Sixth Street over the Los Angeles River	Date Prepared:	05/24/2022

G. CUTOFF REQUIREMENTS (BUG)

This Section Does Not Apply

H. OUTDOOR LIGHTING CONTROLS

Table Instructions: Complete this table demonstrating compliance with controls requirements for all new or altered luminaires installed as part of the permit application. For alteration projects, luminaires which are existing to remain (ie untouched) and luminaires which are removed and reinstalled (wiring only) do not need to be included in this table even if they are within the spaces covered by the permit application.
*When an option having a * is selected, the notes section of this table must be completed. The lighting controls section of the Compliance Summary Table on the first page will show "DOES NOT COMPLY" if the notes are left blank. For each requirement in columns 02 through 04, do not leave the field blank, instead select NA or Exempt* from the dropdown list to indicate not applicable or an exemption.*

Mandatory Controls

01 Area Description	02 Shut-Off §130.2(c)1	03 Auto-Schedule §130.2(c)2	04 Motion Sensor §130.2(c)3	05 Field Inspector Pass	Fail
Park/ Path lighting	Photocontrol	Yes		[ ]	[ ]
Sports Lighting	Other *	Yes		[ ]	[ ]
Theater Lighting	Other *	Yes		[ ]	[ ]

*NOTES: Controls with a * require a note in the space below explaining how compliance is achieved.
EX: Not permitted by health & safety to be turned off; EXCEPTION 1 to §130.2(c).

Sports Lighting	Sports lighting controls
Theater Lighting	Theater lighting controls

I. LIGHTING POWER ALLOWANCE (per §140.7)

Table Instructions: Please complete this table for areas using the allowance calculations per §140.7. General Hardscape Allowance is per Table 140.7-A while "Use it or lost it" Allowances are per Table 140.7-B. Indicate which allowances are being used to expand sections for user input. Luminaires that qualify for one of the "Use it or lose it" allowances shall not qualify for another "Use it or lose it" allowance.

01				
	"Use it or lose it" Allowances (select all that apply)			
[x] General Hardscape Allowance	[ ] Per Application	[ ] Sales Frontage	[ ] Ornamental	[ ] Per Specific Area
Table I (below)	Table J	Table K	Table L	Table M

Calculated General Hardscape Lighting Power Allowance per Table 140.7-A (LZ 2 & 3)

Table Continued

CA Building Energy Efficiency Standards - 2019 Nonresidential Compliance: http://www.energy.ca.gov/title24/2019standards — January 2021

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SHEET TITLE: TITLE 24 OVERALL SITE - OUTDOOR
PROJECT: SIXTH STREET PARK, ARTS AND RIVER CONNECTIVITY IMPROVEMENTS (PARC)
ADDRESS: SIXTH STREET OVER THE LOS ANGELES RIVER

GARY LEE MOORE, P.E., ENV SP — CITY ENGINEER
DESIGN GROUP
ENGINEER: (signature) LIC. NO. E-15809 DATE: 07/11/22
DESIGNED BY: JAMES ROBERTS
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7/11/2022 8:30:50 PM - O:\PROJECTS\IRVINE\20043\200-20043-17001\CAD\SHEETFILES\E-707 TITLE 24 OVERALL SITE - OUTDOOR.DWG - ROBERTS, JAMES1

REVISION DATES (DESIGN STAGE ONLY)

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CALIFORNIA ENERGY COMMISSION

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Project Name: Sixth Street Park, Arts and River Connectivity Improvements	Report Page:	Page 5 of 7
Project Address: Sixth Street over the Los Angeles River	Date Prepared:	05/24/2022

02	03	04	05	06	07	08	09	10
Area Description	Surface Type	Area Wattage Allowance (AWA)			Linear Wattage Allowance (LWA)			Total General AWA + LWA (Watts)
		Illuminated Area (ft²)	Allowed Density (W/ft²)	Area Allowance (Watts)	Perimeter Length (ft)	Allowed Density (W/ft)	Linear Allowance (Watts)	
PARC	Concrete	434,200	0.03	13,026	8,179.11	0.4	3,271.644	16,297.644
								0
								0
							Initial Wattage Allowance for Entire Site (Watts):	350
							Total General Hardscape Allowance (Watts):	16,647.644

J. LIGHTING ALLOWANCE: PER APPLICATION
This Section Does Not Apply

K. LIGHTING ALLOWANCE: SALES FRONTAGE
This Section Does Not Apply

L. LIGHTING ALLOWANCE: ORNAMENTAL
This Section Does Not Apply

M. LIGHTING ALLOWANCE: PER SPECIFIC AREA
This Section Does Not Apply

N. EXISTING CONDITIONS POWER ALLOWANCE (alterations only)
This Section Does Not Apply

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YES	NO	Form/Title	Field Inspector Pass	Field Inspector Fail
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●	○	NRCI-LTO-02-E - Must be submitted for a lighting control system; or for an Energy Management Control System (EMCS), to be recognized for compliance.	☐	☐

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YES	NO	Form/Title	Field Inspector Pass	Field Inspector Fail
●	○	NRCA-LTO-02-A - Must be submitted for all outdoor lighting controls except for alterations where controls area added to ≤ 20 luminaires.	☐	☐

STATE OF CALIFORNIA

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DOCUMENTATION AUTHOR'S DECLARATION STATEMENT
I certify that this Certificate of Compliance documentation is accurate and complete

Documentation Author Name:	James Roberts	Documentation Author Signature:	
Company:	Tetra Tech	Signature Date:	
Address:	17885 Von Karman Ave, Suite 500	CEA/ HERS Certification Identification (if applicable):	
City/State/Zip:	Irvine/CA/92886	Phone:	949-809-5105

RESPONSIBLE PERSON'S DECLARATION STATEMENT

I certify the following under penalty of perjury, under the laws of the State of California:

1. **The information provided on this Certificate of Compliance is true and correct.**
2. **I am eligible under Division 3 of the Business and Professions Code to accept responsibility for the building design or system design identified on this Certificate of Compliance (responsible designer)**
3. **The energy features and performance specifications, materials, components, and manufactured devices for the building design or system design identified on this Certificate of Compliance conform to the requirements of Title 24, Part 1 and Part 6 of the California Code of Regulations.**
4. **The building design features or system design features identified on this Certificate of Compliance are consistentwith the information provided on other applicable compliance documents, worksheets, calculations, plans and specifications submitted to the enforcement agencyfor approval with this building permit application.**
5. **I will ensure that a completed signed copy of this Certificate of Compliance shall be made available with the building permit(s) issued for the building, and made available to the enforcement agency for all applicable inspections. I understand that a completed signed copy of this Certificate of Compliance is required to be included with the documentation the builder provides to the building owner at occupancy.**

Responsible Designer Name:	Mazen Kassar	Responsible Designer Signature:	
Company :	Tetra Tech	Date Signed:	
Address:	17885 Von Karman Ave, Suite 500	License:	E-15809
City/State/Zip:	Irvine/CA/92886	Phone:	949-809-5137

PLANS PREPARED BY:
TETRA TECH, INC.
707 WILSHIRE BLVD, 23RD FLR.
LOS ANGELES, CA 90017
PHONE: (213) 239-8866

CITY OF LOS ANGELES — DEPARTMENT OF PUBLIC WORKS — BUREAU OF ENGINEERING

VERT. CONTROL: BM 12-04070, 1929 (NGVD29) - 1985 ADJUSTMENT
HORIZ. CONTROL: GPS; PID AE 1704, EPOCH 1991.35

SHEET TITLE: TITLE 24 OVERALL SITE - OUTDOOR
PROJECT: SIXTH STREET PARK, ARTS AND RIVER CONNECTIVITY IMPROVEMENTS (PARC)
ADDRESS: SIXTH STREET OVER THE LOS ANGELES RIVER

GARY LEE MOORE, P.E., ENV SP — CITY ENGINEER
DESIGN GROUP
ENGINEER: LIC. NO. E-15809 DATE: 07/11/22
DESIGNED BY: JAMES ROBERTS
DRAWN BY: JAMES ROBERTS
CHECKED BY: MAZEN KASSAR
APPROVED BY: MAZEN KASSAR

THIS PLAN WAS ELECTRONICALLY SIGNED AND STAMPED.

REGISTERED PROFESSIONAL ENGINEER — MAZEN KASSAR — No. E 15809 — Exp. 12-31-22 — ELECTRICAL — STATE OF CALIFORNIA

NO. | REVISIONS: | DATE: | BY:

INDEX NO.

BUILDING NO.

ENGINEERING — CITY OF LOS ANGELES

WORK ORDER NO. E700235D
FILE NO. --
DRAWING NO. E-708
SHEET 194 OF 295 SHEETS

7/11/2022 8:31:24 PM - O:\PROJECTS\IRVINE\20043\200-20043-17001\CAD\SHEETFILES\E-708 TITLE 24 OVERALL SITE - OUTDOOR.DWG - ROBERTS, JAMES1

REVISION DATES (DESIGN STAGE ONLY)

Sheet Version 3.0

BID SET - NOT FOR CONSTRUCTION

SYMBOLS

BUILDING ELEVATION

BUILDING SECTION

WALL SECTION

WALL-END-MARK-TYP

INTERIOR ELEVATION

DETAILS

DETAIL SECTION

INSULATION

ALIGN

BREAK

BUILDING REFERENCE GRID

KEY NOTE

NORTH ARROW

WALL TYPE

REVISION

EXTENT OF REVISION

SPOT ELEVATION

BUILDING ELEVATION

ROOM NAME / XXX — ROOM NUMBER

HW: XX — DOOR DESCRIPTION

AX.XX — MATCH LINE

℄ CENTER LINE

XXX — WINDOW-TYPE

XXX — WINDOW SHADE NUMBER

FIN — CEILING FINISH & ELEVATION

EXISTING CONSTRUCTION

ABBREVIATIONS

A.F.F.	ABOVE FINISH FLOOR
ADJ	ADJACENT
ALUM	ALUMINUM
ANNOD	ANODIZED
AUD	AUDITORIUM
BLDG	BUILDING
BLW	BELOW
BM	BEAM
BOS	BLACK OUT WINDOW TREATMENT
BOT	BOTTOM
C. WALL	CURTAINWALL
CL	CLOSET
CLG	CEILING
COL	COLUMN
CONC	CONCRETE
CONST	CONSTRUCTION
CONT	CONTINUOUS or CONTINUE
DIM	DIMENSION
DKG	DECKING
DR	DOOR
DWG	DRAWING
(E)	EXISTING
EL	ELEVATION
ELEC	ELECTRICAL(L)
EP	ELECTRICAL PANEL
EX	EXISTING
EXT	EXTERIOR
F.B.O.	FURNISHED BY OTHERS
F.D.	FLOOR DRAIN
F.E.C.	FIRE EXTINGUISHER CABINET
F.F.	FINISH FLOOR
F.F.L.	FINISH FLOOR LINE
F.O.S.	FACE OF STUDS
F.R.	FIRE RATED
FLR	FLOOR
FLUR	FLUORESCENT
FND	FOUNDATION
FP'G	FIREPROOFING
FR	FRAME(ED), (ING)
FS	FLOOR SINK
FTG	FOOTING
FUR	FURRED(ING)
G.C.	GENERAL CONDITIONS
GA	GAGE, GAUGE
GV	GALVANIZED
GWB	GYPSUM WALL BOARD
H.M.	HOLLOW METAL
H.V.A.C.	HEATING, VENTILATION, AIR CONDITIONING
HOR	HORIZONTAL
INT	INTERIOR
L.PT.	LOW POINT
LAM	LAMINATE
LW	LIGHTWEIGHT
LWC	LIGHTWEIGHT CONCRETE
MAS	MASONRY
MECH	MECHANICAL
MFR	MANUFACTURER
MIN	MINIMUM
MK	ARCHITECTURAL MILLWORK
MTL	METAL
MTL PNL	METAL PANEL
N.C.	NO CEILING
N.I.C.	NOT IN CONTRACT
N.W.P.	NO WORK PROPOSED
O.X.	OUTSIDE DIAMETER
O.H.	OPPOSITE HAND
OPG	OPENING
OVERHD	OVERHEAD
P.C.	PLANTED AREA
P.L.	PROPERTY LINE
P.LAM	PLASTIC LAMINATE
PLS	PLASTER
PLYWD	PLYWOOD
R.C.P.	REFLECTED CEILING PLAN
RAD	RADIUS
REF	REFERENCE
REM	REMOVE
REV	REVERSE
REQ	REQUIRED
RFG	ROOFING
S.C.	SOLID CORE
SIM	SIMILAR
S.STL	STAINLESS STEEL
SHT	SHEET
SHT'G	SHEATHING
STRUCT	STRUCTURAL
T	TREAD
TBD	TO BE DETERMINED
T.O.	TOP OF
T.PTN	TOILET PARTITION
TEL	TELEPHONE
TV	TELEVISION
TYP	TYPICAL
U.O.N.	UNLESS OTHERWISE NOTED
VB	VINYL BASE
VERT	VERTICAL
VNR	VENEER
W.C.	WATER CLOSET
W.M.	WATERPROOFING MEMBRANE
W.PT.	WORK POINT
W/O	WITH OUT
WD	WOOD
WT	WALL THICKNESS

APPLICABLE CODES

BUILDING:	2016 CBC AS ADOPTED BY THE CITY OF LOS ANGELES 2017 LABC
GREEN BUILDING:	2016 CALIFORNIA GREEN BUILDING CODE
ELECTRICAL:	2016 CALIFORNIA ELECTRICAL CODE
MECHANICAL:	2016 CALIFORNIA MECHANICAL CODE
PLUMBING:	2016 CALIFORNIA PLUMBING CODE
ENERGY:	2016 CALIFORNIA ENERGY CODE CALIFORNIA TITLE 24, PART 2 (AND APPLICABLE ORDINANCES)
FIRE & LIFE SAFETY:	2016 CALIFORNIA FIRE CODE 2016 CALIFORNIA REFERENCED STANDARDS TITLE 8, C.C.R., CH 4, SUB-CHS—ELEVATOR SAFETY ORDERS TITLE 19 C.C.R., PUBLIC SAFETY, SFM REGULATIONS
ACCESSIBILITY:	2010 ADA STANDARDS FOR ACCESSIBLE DESIGN AMERICANS WITH DISABILITIES ACT (ADA), TITLE 2
ADMINISTRATIVE:	2016 CALIFORNIA ADMINISTRATIVE CODE

CODE NOTES

1. ANCHORAGE OF ELECTRICAL AND MECHANICAL EQUIPMENT AND ALL OTHER ESSENTIAL EQUIPMENT (INCLUDING LOCKERS, CASEWORK, ETC.) SHALL BE AS REQUIRED BY CODE.
2. ALL VOIDS AND PENETRATIONS THROUGH FLOOR SLAB FOR CONDUITS, PIPES, ETC., SHALL BE SEALED TO MAINTAIN FIRE RATINGS.
3. FIRE DEPT. CONNECTIONS MUST BE LOCATED ON ADDRESS SIDE OF BUILDING- SEE PLUMBING SERIES.

PROJECT DATA - EAST BUILDING

PROJECT DESCRIPTION	PUBLIC RESTROOM AND AUXILIARY STORAGE
PROJECT ADDRESS	641 S ANDERSON ST LOS ANGELES, CA 90023
LEGAL DESCRIPTION	STRONG AND DICKINSONS RAILROAD TRACT BLOCK A, LOTS 22 & 23
ZONING	M2-1-RIO-CUGU
SETBACKS	N/A
OWNER	CITY OF LOS ANGELES BUREAU OF ENGINEERING
HEIGHT	15'-0"
LENGTH (OVERALL BUILDING):	73'-5"
WIDTH (OVERALL BUILDING):	67'-6"
BASEMENT LEVELS	0
STORIES:	1 STORY
CONSTRUCTION TYPE	TYPE 1
SPRINKLERS	NOT SPRINKLERED
OCCUPANCY TYPE	B, S1
PROJECT AREA PER FLOOR - B - S1 - RESTROOMS - TOTAL	 870 SF 530 SF 250 SF 1,650 SF

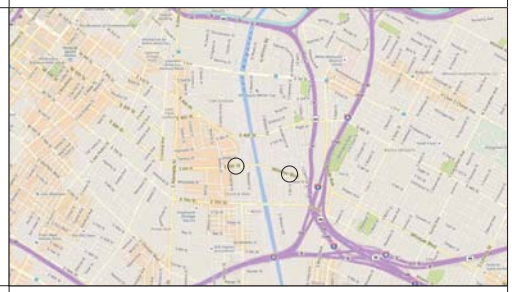
PROJECT DATA - WEST RESTROOM

PROJECT DESCRIPTION	PUBLIC RESTROOM AND AUXILIARY STORAGE
PROJECT ADDRESS	587 S SANTA FE AVE LOS ANGELES, CA 90013
LEGAL DESCRIPTION	N/A (CITY RIGHT OF WAY)
ZONING	N/A (CITY RIGHT OF WAY)
SETBACKS	N/A
OWNER	CITY OF LOS ANGELES BUREAU OF ENGINEERING
HEIGHT	9'-2"
LENGTH (OVERALL BUILDING):	32'-6"
WIDTH (OVERALL BUILDING):	26'-6"
BASEMENT LEVELS	0
STORIES:	1 STORY
CONSTRUCTION TYPE	TYPE 1
SPRINKLERS	NOT SPRINKLERED
PROJECT AREA PER FLOOR	163 SF

PROJECT DATA - CAFE

PROJECT DESCRIPTION	CAFE, PREPACKAGED FOOD RETAIL
PROJECT ADDRESS	587 S SANTA FE AVE LOS ANGELES, CA 90013
LEGAL DESCRIPTION	N/A (CITY RIGHT OF WAY)
ZONING	N/A (CITY RIGHT OF WAY)
SETBACKS	N/A
OWNER	CITY OF LOS ANGELES BUREAU OF ENGINEERING
HEIGHT	10'-8"
LENGTH (OVERALL BUILDING):	32'-6"
WIDTH (OVERALL BUILDING):	26'-6"
BASEMENT LEVELS	0
STORIES:	1 STORY
CONSTRUCTION TYPE	TYPE 1
SPRINKLERS	NOT SPRINKLERED
PROJECT AREA PER FLOOR	577 SF

VICINITY MAP



SHEET INDEX

SHEET	SHEET DESCRIPTION	SCALE	35% DESIGN 12-14-2017	65% DESIGN 8/21/2018	90% DESIGN 7/28/2019	95% DESIGN 11/01/2021	BID SET 7/11/2022
GENERAL							
A0-01	INDEX, GENERAL NOTES	NONE	•	•	•	•	•
A0-02	ACCESSIBILITY NOTES & DIAGRAMS	NONE	•	•	•	•	•
A0-03	ACCESSIBILITY NOTES & DIAGRAMS	NONE	•	•	•	•	•
A0-04	GENERAL NOTES	NONE			•	•	•
A0-05	GREEN FORMS	NONE					•
A0-06	GREEN FORMS	NONE					•
A0-07	MATERIAL PRODUCT DATA	NONE					•
A0-11	PROJECT VIEWS	NONE					•
ARCHITECTURAL							
SITE							
A1-01	OVERALL SITE PLAN	1"=120'	•	•	•	•	•
A1-02	EAST BUILDING SITE PLAN	1/8"=1'-0"			•	•	•
A1-03	WEST BUILDING SITE PLAN	1/8"=1'-0"			•	•	•
A1-04	ARTS PLAZA RETAINING WALL PLAN	1/8"=1'-0"	•	•	•	•	•
A1-05	ARTS PLAZA RW ELEVATION & SECTION	1/8"=1'-0"	•	•	•	•	•
A1-06	ARTS PLAZA DETAILS (SIGNAGE)	AS NOTED			•	•	•
A1-07	BENT 10S STAIR LANDING	AS NOTED					•
EAST BUILDING							
PLAN							
AE2-00	GEOMETRY PLAN	1/4"=1'-0"		•	•	•	•
AE2-01	FLOOR PLAN	1/4"=1'-0"	•	•	•	•	•
AE2-02	RCP	1/4"=1'-0"	•	•	•	•	•
AE2-03	ROOF PLAN	1/4"=1'-0"		•	•	•	•
ELEVATIONS							
AE3-01	BUILDING ELEVATIONS	1/4"=1'-0"	•	•	•	•	•
SECTIONS							
AE4-01	BUILDING SECTIONS	1/4"=1'-0"	•	•	•	•	•
AE4-02	WALL SECTIONS	1"=1'-0"		•	•	•	•
ENLARGEMENTS							
AE5-01	ENLARGEMENTS	1/4"=1'-0"	•	•	•	•	•
AE5-02	RESTROOM ENLARGEMENTS	1/2"=1'-0"			•	•	•
AE5-03	MILLWORK	AS NOTED		•	•	•	•
AE5-04	SCHEDULES	NONE	•	•	•	•	•
DETAILS							
AE6-01	DETAILS	AS NOTED		•	•	•	•
AE6-02	DETAILS	AS NOTED		•	•	•	•
AE6-03	DETAILS	AS NOTED		•	•	•	•
WEST BUILDING							
AW2-01	FLOOR PLAN, RCP, ROOF, GEOMETRY PLAN	1/4"=1'-0"	•	•	•	•	•
AW3-01	ELEVATIONS, SCHEDULES	1/4"=1'-0"	•	•	•	•	•
AW4-01	BUILDING & WALL SECTIONS, DETAILS	AS NOTED	•	•	•	•	•
CAFE BUILDING							
AC2-01	FLOOR PLAN, RCP, ROOF, GEOMETRY PLAN	1/4"=1'-0"	•	•	•	•	•
AC3-01	ELEVATIONS, SCHEDULES	AS NOTED	•	•	•	•	•
AC4-01	BUILDING & WALL SECTIONS, DETAILS	AS NOTED	•	•	•	•	•

THE CITY OF LOS ANGELES OR ITS OFFICERS OR AGENTS SHALL NOT BE RESPONSIBLE FOR THE ACCURACY OR COMPLETENESS OF ELECTRONIC COPIES OF THIS PLAN SHEET.

REVISION DATES (DESIGN STAGE ONLY)

Sheet Version 3.0

PLANS PREPARED BY:
TETRA TECH, INC.
300 SOUTH GRAND AVENUE, SUITE 3310
LOS ANGELES, CALIFORNIA 90071
Phone: (213) 279-3283

MICHAEL MALTZAN ARCHITECTURE
2801 HYPERION AVENUE, STUDIO 107 | LOS ANGELES, CA 90027 | (323) 913-3096

CITY OF LOS ANGELES — DEPARTMENT OF PUBLIC WORKS — BUREAU OF ENGINEERING

ENGINEERING — CITY OF LOS ANGELES

NO.	REVISIONS	DATE	BY:

INDEX NO.

BUILDING NO.

THIS PLAN WAS ELECTRONICALLY SIGNED AND STAMPED

GARY LEE MOORE, P.E., ENV SP — CITY ENGINEER — DATE: 7/11/2022
LIC. NO. C-37729

ARCHITECT: MICHAEL MALTZAN — DESIGN GROUP
DESIGNED BY:
DRAWN BY:
CHECKED BY:
APPROVED BY:

SHEET TITLE: SHEET INDEX & NOTES

PROJECT: SIXTH STREET PARK, ARTS AND RIVER CONNECTIVITY IMPROVEMENTS (PARC)

ADDRESS: SIXTH STREET OVER THE LOS ANGELES RIVER

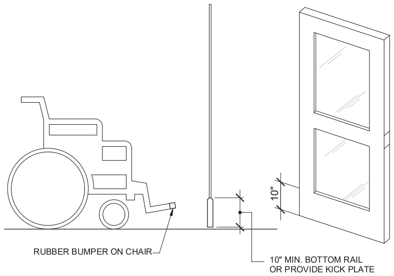
WORK ORDER NO. E700235D

FILE NO. --

DRAWING NO. A0-01

SHEET 1 OF 295 SHEETS

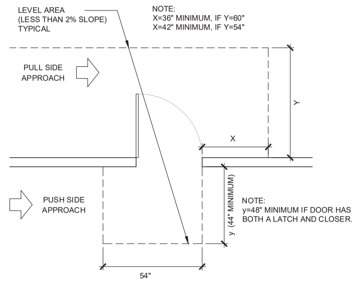
BID SET - NOT FOR CONSTRUCTION



NOTE:

THE BOTTOM 10 INCHES OF ALL DOORS EXCEPT AUTOMATIC AND SLIDING DOORS SHALL HAVE A SMOOTH UNINTERRUPTED SURFACE TO ALLOW THE DOOR TO BE OPENED BY A WHEELCHAIR FOOTREST WITHOUT CREATING A TRAP OR HAZARDOUS CONDITION. WHERE NARROW FRAMED DOORS ARE USED, A 10 INCH HIGH SMOOTH PANEL SHALL BE INSTALLED ON THE PUSH SIDE OF THE DOOR.

11 DOOR KICKPLATE
SCALE: N.T.S.

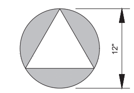


8 HINGE SIDE APPROACHES-SWINGING DOORS
SCALE: N.T.S.

REFER TO FOR MOUNTING REQUIREMENTS.

THE INTERNATIONAL SYMBOL OF ACCESSIBILITY SHALL CONSIST OF A WHITE FIGURE ON A GREY BACKGROUND. THE GREY SHALL BE EQUAL IN CONTRAST TO COLOR NO. 15090 IN FEDERAL STANDARD 595B.

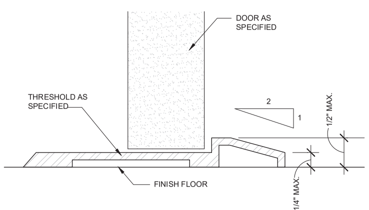
5 WALL SIGNAGE AT SANITARY FACILITIES
SCALE: N.T.S.



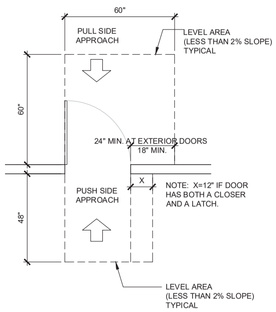
NOTE:
PICTOGRAMS AND/OR LETTERING ARE NOT REQUIRED ON DOOR-MOUNTED SIGNAGE.

THE INTERNATIONAL SYMBOL OF ACCESSIBILITY SHALL CONSIST OF A WHITE FIGURE ON A GREY BACKGROUND. THE GREY SHALL BE EQUAL IN CONTRAST TO COLOR NO. 15090 IN FEDERAL STANDARD 595B.

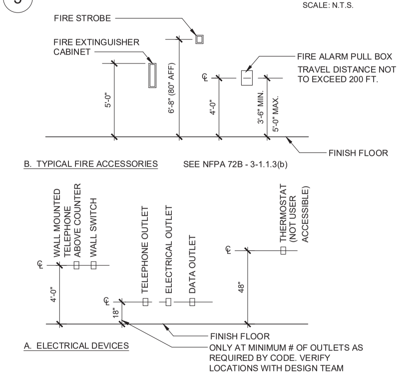
3 DOOR SIGNAGE AT SANITARY FACILITIES
SCALE: N.T.S.



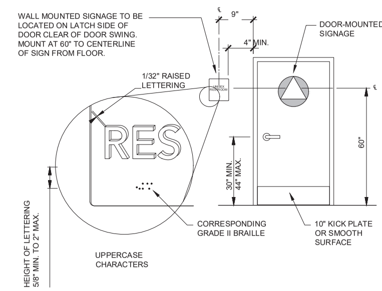
10 STANDARD DOOR THRESHOLD
SCALE: N.T.S.



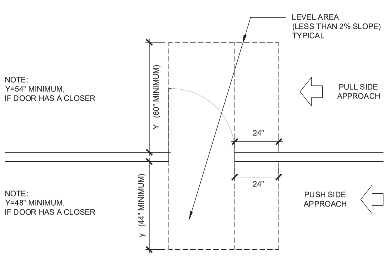
7 FRONT APPROACHES-SWINGING DOORS
SCALE: N.T.S.



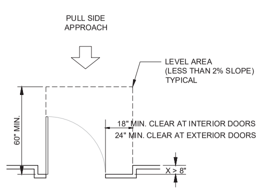
4 FIRE & ELEC EQUIPMENT MOUNTING HEIGHTS
SCALE: N.T.S.



2 ID SYMBOL AT SANITARY FACILITIES
SCALE: N.T.S.

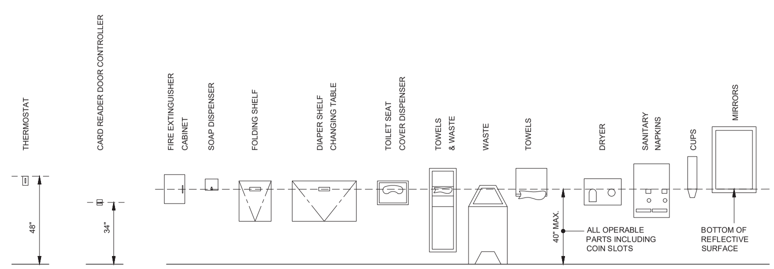


9 LATCH SIDE APPROACHES-SWINGING DOORS
SCALE: N.T.S.



NOTE:
ALL DOORS IN ALCOVES SHALL COMPLY WITH THE CLEARANCES FOR FRONT APPROACHES.

6 DOORS LOCATED IN A RECESS OR ALCOVE
SCALE: N.T.S.



1 MOUNTING HEIGHT
SCALE: N.T.S.

PLANS PREPARED BY:

TETRA TECH, INC.
350 SOUTH GRAND AVENUE, SUITE 3310
LOS ANGELES, CALIFORNIA 90071
Phone: (213) 279-3283

MICHAEL
MALTZAN
ARCHITECTURE
2801 HYPERION AVENUE, STUDIO 107 | LOS ANGELES, CA 90027 | (323) 913 3098

CITY OF LOS ANGELES — DEPARTMENT OF PUBLIC WORKS — BUREAU OF ENGINEERING

VERT. CONTROL: LA CITY BM 12-04070 (1985 ADJ), NGVD 1929
HORIZ. CONTROL: NAD 83 (ZONE 5) COORDINATES

SHEET TITLE: ACCESSIBILITY NOTES & DIAGRAMS
PROJECT: SIXTH STREET PARK, ARTS AND RIVER CONNECTIVITY IMPROVEMENTS (PARC)
ADDRESS: SIXTH STREET OVER THE LOS ANGELES RIVER

GARY LEE MOORE, P.E., ENV SP — CITY ENGINEER
DESIGN GROUP — DATE:
ARCHITECT: MICHAEL MALTZAN — LIC. NO. C-23729 — 7/11/2022
DESIGNED BY:
DRAWN BY:
CHECKED BY:
APPROVED BY:

THIS PLAN WAS ELECTRONICALLY SIGNED AND STAMPED

NO. | REVISIONS: | DATE: | BY:

INDEX NO.
BUILDING NO.

ENGINEERING — CITY OF LOS ANGELES

WORK ORDER NO. E700235D
FILE NO. --
DRAWING NO. A0-02
SHEET 196 OF 295 SHEETS

REVISION DATES (DESIGN STAGE ONLY)

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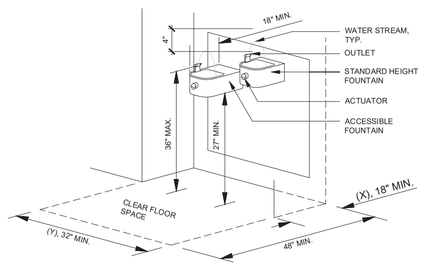
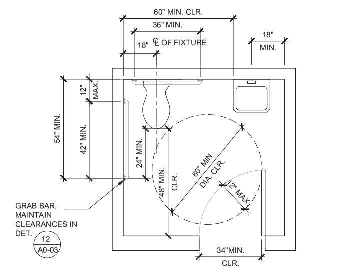


NOTES:

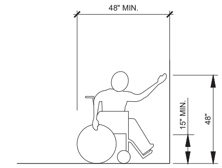
1. IF ALCOVE DEPTH (X) IS GREATER THAN 24", THEN ALCOVE WIDTH (Y) MUST BE A MINIMUM OF 36"
2. TOE CLEARANCE MUST BE 9" MIN. AFF AND 17" MIN. DEEP MEASURED FROM THE FRONT OF THE DF.
3. CENTERLINE OF ACCESSIBLE DRINKING FOUNTAIN MUST BE 15" MIN. FROM NEAREST ALCOVE SIDEWALL.
4. CENTERLINE OF ACCESSIBLE WHEELCHAIR DF MUST BE 18" MIN FROM NEAREST ALCOVE SIDEWALL, IF ALCOVE IS DEEPER THAN 24".
5. THE ACTIVATOR MUST PROVIDE ACCESSIBLE OPERATION AND BE WITHIN 6" OF THE FRONT EDGE OF THE DRINKING FOUNTAIN.
6. ON DRINKING FOUNTAINS WITH ROUND OR OVAL BOWLS, THE OUTLET MUST BE LOCATED SO THAT THE FLOW OF WATER IS WITHIN 3" OF THE FRONT EDGE OF THE DRINKING FOUNTAIN.
7. ON DRINKING FOUNTAINS WITH SQUARE BOWLS, THE OUTLET MUST BE WITHIN 6" OF THE FRONT EDGE OF THE DF AND PROVIDE A FLOW OF WATER THAT IS PARALLEL WITH THE FRONT EDGE AND 4" HIGH.

19 HI-LO FOUNTAIN DESIGN
Scale: N.T.S.

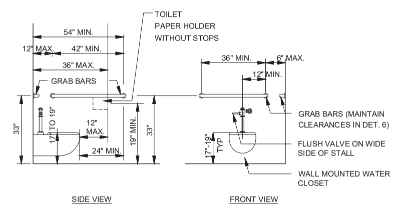


TOTAL STALL DIMENSIONS MUST INCORPORATE ALL CLEARANCES SHOWN TO COMPLY WITH BOTH STATE AND FEDERAL REQUIREMENTS

17 SINGLE ACCOMMODATION FACILITY
Scale: N.T.S.

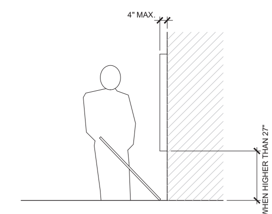


14 HIGH FORWARD REACH LIMIT
SCALE: N.T.S.

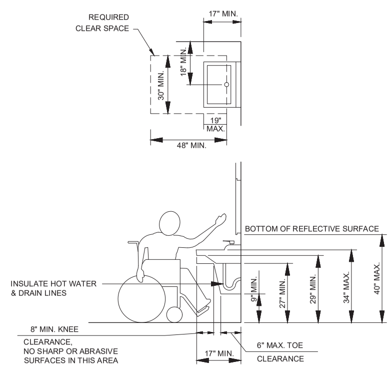


NOTE:
FLUSH CONTROLS SHALL BE OPERABLE WITH ONE HAND AND SHALL NOT REQUIRE TIGHT GRASPING, PINCHING OR TWISTING OF THE WRIST AND SHALL BE MOUNTED NO MORE THAN 44" ABOVE THE FLOOR. THE FORCE REQUIRED TO ACTIVATE CONTROLS SHALL BE NO GREATER THAN 5lbf (22.2N).

16 WATER CLOSETS
Scale: N.T.S.

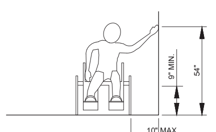


13 PROTRUDING OBJECTS
SCALE: N.T.S.

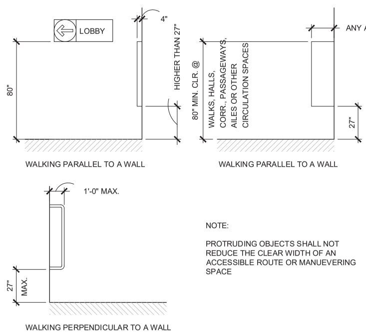


NOTE:
FAUCET CONTROLS AND OPERATING MECHANISMS SHALL BE OPERABLE WITH ONE HAND AND SHALL NOT REQUIRE TIGHT GRASPING, PINCHING OR TWISTING OF THE WRIST. THE FORCE REQUIRED TO ACTIVATE CONTROLS SHALL BE NO GREATER THAN 5lbf (22.2N).
(ACCESS COMPLIANCE REFERENCE MANUAL - DSA, 1115B.2.1.2.1)

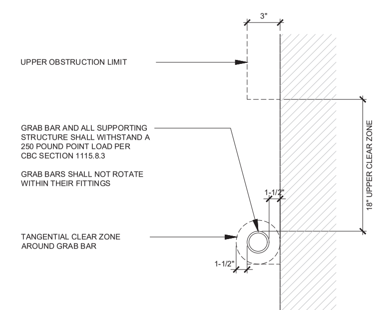
18 LAVATORIES
Scale: N.T.S.



20 HIGH AND LOW SIDE REACH LIMITS
SCALE: N.T.S.



15 EXCLUSION ZONES AROUND GRAB BARS
SCALE: N.T.S.



12 EXCLUSION ZONES AROUND GRAB BARS
SCALE: N.T.S.

PLANS PREPARED BY:
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CITY OF LOS ANGELES — DEPARTMENT OF PUBLIC WORKS — BUREAU OF ENGINEERING

VERT. CONTROL: LA CITY BM 12-04070 (1985 ADJ), NGVD 1929
HORIZ. CONTROL: NAD 83 (ZONE 5) COORDINATES

SHEET TITLE: ACCESSIBILITY NOTES & DIAGRAMS
PROJECT: SIXTH STREET PARK, ARTS AND RIVER CONNECTIVITY IMPROVEMENTS (PARC)
ADDRESS: SIXTH STREET OVER THE LOS ANGELES RIVER

GARY LEE MOORE, P.E., ENV SP — CITY ENGINEER
DESIGN GROUP — DATE
ARCHITECT: MICHAEL MALTZAN — LIC. NO. C-23729 — 7/11/2022
DESIGNED BY:
DRAWN BY:
CHECKED BY:
APPROVED BY:

THIS PLAN WAS ELECTRONICALLY SIGNED AND STAMPED

NO.	REVISIONS:	DATE:	BY:

INDEX NO.
BUILDING NO.

ENGINEERING — CITY OF LOS ANGELES

WORK ORDER NO. E700235D
FILE NO. --
DRAWING NO. A0-03
SHEET 197 OF 295 SHEETS

BID SET - NOT FOR CONSTRUCTION

REVISION DATES (DESIGN STAGE ONLY)

Sheet Version 3.0

GENERAL NOTES

ADMINISTRATIVE/PROCESS NOTES

1. SHOULD IT APPEAR THAT PROPOSED WORK IS NOT CLEARLY CALLED OUT, OR MATTERS RELATIVE THEREOF ARE NOT SUFFICIENTLY DETAILED OR EXPLAINED ON DRAWINGS, OR IN SPECIFICATIONS, OR IF CONTRACTOR HAS A BETTER CONSTRUCTION TECHNIQUE OR PROCEDURE, CONTRACTOR MUST APPLY TO OWNER REPRESENTATIVE FOR FURTHER DRAWINGS OR EXPLANATIONS OR SUBMIT DRAWINGS AND PROCEDURES AND MUST CONFORM TO SAME IN ORDER TO BE CONSISTENT WITH ORIGINAL DRAWINGS, SPECIFICATIONS, AND DESIGN INTENT. NOTICE OF SUCH MUST BE MADE TO OWNER'S REPRESENTATIVE WHOSE DECISION WILL BE FINAL AND CONCLUSIVE. IN NO CASE WILL WORK PROCEED IN UNCERTAINTY.

2. ALL SUBCONTRACTORS MUST REVIEW THE MANNER IN WHICH WORK FITS, ALIGNS, OR COMES INTO CONTACT WITH THE WORK OF OTHER TRADES. DEFICIENCIES RESULTING FROM FAILURE TO DO SO WILL BE REMOVED AND CORRECTED AT CONTRACTORS EXPENSE. EACH SUBCONTRACTOR IS CONSIDERED A SPECIALIST IN HIS/HER RESPECTIVE FIELD AND SHALL, PRIOR TO THE SUBMISSION OF BID OR PERFORMANCE OF HIS/HER WORK, NOTIFY THE CONTRACTOR OF ANY WORK CALLED OUT IN THESE DOCUMENTS THAT CANNOT BE EXECUTED AS SHOWN OR DESCRIBED OR CANNOT BE FULLY GUARANTEED.

3. IT SHALL BE THE RESPONSIBILITY OF THE CONTRACTOR TO CHECK WITH THE ARCHITECTURAL DRAWINGS BEFORE THE INSTALLATION OF THE STRUCTURAL, ELECTRICAL, PLUMBING OR MECHANICAL WORK. ANY DISCREPANCY BETWEEN THE ARCHITECTURAL AND THE CONSULTANTS' DRAWINGS SHALL BE BROUGHT TO THE ARCHITECT'S AND OWNER'S ATTENTION FOR CLARIFICATION.

4. THE CONTRACTOR SHALL THOROUGHLY EXAMINE THE SITE AND SATISFY HIM/HERSELF AS TO THE CONDITIONS UNDER WHICH THE WORK IS TO BE PERFORMED. CONTRACTOR TO FIELD VERIFY ALL EXISTING CONDITIONS, DIMENSIONS AND DISTANCES, STRUCTURES, AND UTILITIES WITHIN LIMITS OF THE PROJECT BEFORE SUBMITTING BID OR PROCEEDING WITH THE WORK. IN CASES OF CONFLICT, THE ARCHITECT IS TO BE NOTIFIED IMMEDIATELY IN ORDER THAT CLARIFICATION MAY BE MADE.

5. ACTUAL FIELD CONDITIONS MAY VARY FROM THE PLANS. ANY DISCREPANCIES BETWEEN THE DRAWINGS AND FIELD CONDITIONS SHALL BE REPORTED IMMEDIATELY TO THE ARCHITECT. NO DEVIATION FROM THE CONTRACT DOCUMENTS SHALL BE MADE WITHOUT WRITTEN APPROVAL FROM THE ARCHITECT.

6. THE CONTRACTOR MUST CAREFULLY STUDY AND COMPARE THE CONTRACT DOCUMENTS PRIOR TO CONSTRUCTION AND MUST AT ONCE REPORT TO THE ARCHITECT ANY ERROR, INCONSISTENCY, OR OMISSION HE/SHE MAY DISCOVER AND SHALL NOT PROCEED WITH THE WORK UNTIL THE INTENT OF THE DOCUMENTS IS VERIFIED BY THE ARCHITECT.

7. ALL HOLES OR DEPRESSIONS RESULTING FROM REMOVAL OF FOOTINGS, BASEMENTS, UTILITIES, ETC. SHALL BE FILLED AND COMPACTED TO REQUIRED DENSITY USING APPROVED ON SITE OR IMPORTED MATERIALS. FINAL RESULTING GRADE SHALL BE SURVEYED AND DOCUMENTED BY THE CONTRACTOR AND SUBMITTED TO THE OWNER.

8. PRIOR TO ANY REQUIRED SITE WORK OR UTILITY DEMOLITION, FIELD VERIFY THE LOCATION AND DEPTH OF ALL EXISTING UTILITIES THAT WILL BE AFFECTED BY THE WORK. PROTECT FROM DAMAGE ANY EXISTING UTILITIES INDICATED TO REMAIN IN SERVICE.

9. THE CONTRACTOR SHALL VERIFY ALL SIZES AND PREPARATORY WORK FOR EQUIPMENT OF OTHERS AND COORDINATE WORK ON THIS CONTRACT WITH N.I.C. WORK OR WORK FURNISHED BY OTHERS.

10. COORDINATION OF TRADES:
    A. THE CONTRACTOR SHALL VERIFY AND COORDINATE ALL FOUNDATION PLAN DIMENSIONS WITH THE FLOOR PLAN DIMENSIONS AND SHALL BE RESPONSIBLE FOR PROPER EXECUTION OF ALL WORK.
    B. THE CONTRACTOR SHALL PROVIDE AND COORDINATE THE EXACT DIMENSIONS TO THE SIZES AND POSITIONS OF ALL EQUIPMENT, MOUNTINGS, ATTACHMENTS AND CONDUIT RELATING TO HIS/HER WORK.
    C. THE CONTRACTOR SHALL PROVIDE, COORDINATE AND FIELD VERIFY THE DIMENSION, SIZES AND POSITIONS OF OPENINGS IN SLABS AND WALLS NECESSARY TO INSTALLATION OF HIS/HER WORK PRIOR TO POURING CONCRETE THE CONTRACTOR SHALL VERIFY THAT ALL EMBEDDED ITEMS AND MATERIALS, INCLUDING THE WORK OF OTHER TRADES, ARE IN PLACE AND SECURELY ANCHORED.

12. PROVIDE CLEAN, WELL-MAINTAINED SANITARY FACILITIES FOR WORKMEN'S USE.

13. THE CONTRACTOR SHALL CONNECT ALL SERVICES TO PUBLIC UTILITIES. ALL UTILITIES SHALL BE CONNECTED TO PROVIDE ELECTRICITY, WATER, GAS, ETC. TO ALL EQUIPMENT SHOWN AS PART OF THIS CONTRACT. ALL EQUIPMENT SHALL FUNCTION CORRECTLY UPON COMPLETION OF THIS CONTRACT.

14. THE CONSTRUCTION SHALL NOT RESTRICT A 5' CLEAR AND UNOBSTRUCTED ACCESS TO ANY WATER OR POWER DISTRIBUTION FACILITIES (POWER POLES, PULL-BOXES, TRANSFORMERS, VAULTS, PUMPS, VALVES, METERS, APPURTENANCES, ETC.) OR TO THE LOCATION OF THE HOOK-UP. THE CONSTRUCTION SHALL NOT BE WITHIN 10' OF ANY POWER LINES - WHETHER OR NOT THE LINES ARE LOCATED ON THE PROPERTY. FAILURE TO COMPLY MAY CAUSE CONSTRUCTION DELAYS AND/OR ADDITIONAL EXPENSES.

15. CONTRACTOR SHALL PROVIDE AND INSTALL ALL STIFFENERS, BRACING, BACK-UP PLATES, AND SUPPORTING BRACKETS REQUIRED FOR THE INSTALLATION OF ALL CASEWORK AND ALL FLOOR MOUNTED OR SUSPENDED MECHANICAL, ELECTRICAL, OR PLUMBING EQUIPMENT. CONTRACTOR SHALL SUBMIT SHOP DRAWINGS AND ENGINEERING CALCULATIONS AS REQUIRED TO THE ARCHITECT AND STRUCTURAL ENGINEER FOR APPROVAL PRIOR TO FABRICATION AND INSTALLATION.

16. ALL CONDUIT, WATER LINES (HOT OR COLD), AND PIPES MUST BE CONCEALED UNLESS NOTED OTHERWISE. EXPOSED WORK SHALL BE COORDINATED AND VERIFIED WITH THE ARCHITECT PRIOR TO INSTALLATION..

17. APPROVAL BY THE BUILDING AND SAFETY INSPECTOR DOES NOT CONSTITUTE AUTHORITY TO DEVIATE FROM CONTRACT DOCUMENTS.

18. THE CONTRACTOR IS RESPONSIBLE FOR THE PROTECTION OF EXISTING STRUCTURES AND FINISHES DURING CONSTRUCTION.

19. DETAILS ARE INTENDED TO SHOW DESIGN INTENT OF COMPLETED WORK. MINOR MODIFICATIONS MAY BE REQUIRED TO SUIT THE JOB DIMENSIONS OR CONDITIONS AND ARE INCLUDED AS PART OF THE WORK.

20. CONTRACTOR TO VERIFY DOOR SIZES, SWINGS, LOCATIONS, AND DETAILS WITH JOB CONDITIONS PRIOR TO FABRICATION AND INSTALLATION.

21. CONTRACTOR TO VERIFY AND MAINTAIN REQUIRED CLEARANCES AROUND INSTALLED EQUIPMENT.

22. CONTRACTOR TO COORDINATE THE INSTALLATION OF THE VARIOUS TRADE ITEMS - INCLUDING BUT NOT LIMITED TO STRUCTURAL MEMBERS, CONDUIT, MECHANICAL DUCTS AND INSULATION, RECESSED LIGHT FIXTURES, AND CEILING CONSTRUCTION THICKNESSES - WITHIN THE SPACE ABOVE THE CEILINGS WERE CEILING OCCURS. CONTRACTOR IS RESPONSIBLE TO MAINTAIN THE FINISH CEILING HEIGHT ABOVE FINISH FLOOR AS INDICATED IN THESE DRAWINGS FOR THE VARIOUS ROOMS AND AREAS.

23. CONTRACTOR IS RESPONSIBLE FOR COORDINATION OF SUBCONTRACTOR BASED ON ENTIRE SET OF CONSTRUCTION DOCUMENTS. NO EXTRA COMPENSATION WILL BE GIVEN TO A BIDDER OR SUPPLIER WHO HAS BID FROM A PARTIAL SET OF CONSTRUCTION DOCUMENTS. IN CASE OF INCONSISTENCIES OR DISCREPANCIES BETWEEN DRAWINGS. THE MOST STRINGENT NOTE OR CONDITION WILL GOVERN. CONTRACTOR TO NOTIFY ARCHITECT IMMEDIATELY OF SUCH INCONSISTENCIES OR DISCREPANCIES.

24. CONTRACTOR TO PROVIDE ACCESS PANELS WHEREVER REQUIRED BY APPLICABLE BUILDING CODE OR WHEREVER REQUIRED FOR PROPER OPERATION OF MECHANICAL OR ELECTRICAL EQUIPMENT. CONTRACTOR TO COORDINATE LOCATION, SIZE, AND TYPE OF ACCESS PANEL WITH HIS/HER SUBCONTRACTOR'S WORK AND ARCHITECT.

25. CONTRACTOR TO VERIFY LOCATION AND SIZE OF ALL OPENINGS WITH DRAWINGS AND MANUFACTURED ITEMS WHERE APPLICABLE.

26. CONTRACTOR TO VERIFY INSERTS AND EMBEDDED ITEMS WITH DRAWINGS AND MANUFACTURED ITEMS WHERE APPLICABLE.

27. FIRE DEPARTMENT ACCESS, FIRE HYDRANTS, AND FIRE FLOW REQUIREMENTS ON THIS PROJECT SHALL BE REVIEWED BY THE CONSTRUCTION SERVICES UNIT (HYDRANTS AND ACCESS), BUREAU OF FIRE PREVENTION AND PUBLIC SAFETY.

CODE NOTES

1. APPLICABLE CODES: ALL WORK MUST CONFORM TO THE REQUIREMENTS OF THE CURRENT EDITION OF THE CITY OF LOS ANGELES BUILDING, MECHANICAL, PLUMBING, ELECTRICAL, AND PLANNING CODES AND ANY OTHER APPLICABLE CODES, ORDINANCES AND LAWS.

2. ALL CONSTRUCTION AND ALL TRADES TO COMPLY WITH THE INTERNATIONAL BUILDING CODE (CURRENT EDITION BEING USED BY THE CITY OF LOS ANGELES), CALIFORNIA ADMINISTRATIVE CODE, TITLE 24, PART 2 (AND APPLICABLE ORDINANCES), AND ALL OTHER APPLICABLE CODES.

3. ANCHORAGE OF ELECTRICAL AND MECHANICAL EQUIPMENT AND ALL OTHER ESSENTIAL EQUIPMENT (INCLUDING LOCKERS, CASEWORK, ETC.) SHALL BE AS REQUIRED BY CODE.

4. ALL VOIDS AND PENETRATIONS THROUGH FLOOR SLAB FOR CONDUITS, PIPES, ETC., SHALL BE SEALED TO MAINTAIN FIRE RATINGS.

5. FIRE DEPT. CONNECTIONS MUST BE LOCATED ON ADDRESS SIDE OF BUILDING- SEE PLUMBING SERIES.

DRAWINGS AND SPECIFICATIONS NOTES

1. DRAWINGS ARE DIVIDED INTO SEPARATE SHEETS FOR GENERAL CONVENIENCE ONLY. SHEET DESIGNATION OR NUMBERS MUST NOT BE CONSIDERED A BREAKDOWN OF AREAS OF WORK RESPONSIBILITY OR TRADES. DRAWINGS MUST BE COORDINATED WITH EACH OTHER AND WITH THE PROJECT SPECIFICATIONS IN ORDER TO COMPLETE THE PROJECT AS INTENDED.

2. DIMENSIONS:
    A. ALL DIMENSIONS ARE TO BE VERIFIED UNLESS OTHERWISE NOTED.
    B. ALL DIMENSIONS INCLUDING ELEVATIONS ARE TO FINISH UNLESS OTHERWISE NOTED OR SHOWN.
    C. CEILING HEIGHT DIMENSIONS ARE TO FINISHED SURFACES OF CEILINGS.

3. ABBREVIATIONS THROUGHOUT THE PLANS ARE THOSE IN COMMON USE. ARCHITECT WILL DEFINE THE INTENT OF ANY IN QUESTION.

4. ALL DISSIMILAR METALS MUST BE EFFECTIVELY ISOLATED FROM EACH OTHER TO PREVENT MOLECULAR BREAKDOWN.

5. REFER TO ELECTRICAL DRAWINGS FOR LOCATIONS OF AND SPECIFICATIONS FOR THE INSTALLATION OF ALL PLYWOOD BACKER BOARDS REQUIRED IN ELECTRICAL AND COMMUNICATION ROOMS.

6. THE CONTRACTOR SHALL PROVIDE CONCEALED MOUNTING PLATES AS REQUIRED BEHIND ALL WALL MOUNTED ITEMS SUCH AS HANDRAILS, TOILET PARTITIONS, LIGHT FIXTURES, EQUIPMENT, ETC.

7. LUMBER ON CONCRETE OR MASONRY WHICH IS IN CONTACT WITH EARTH MUST BE PRESSURE TREATED WOOD.

8. SPECIFIC NOTES AND DETAILS APPLY TO SIMILAR CONDITIONS UNLESS SPECIFICALLY NOTED OTHERWISE.

9. FINISHES NOTED IN FINISH SCHEDULE ON WALLS, BASES, COLUMNS, FLOORS, AND CEILINGS ARE TO BE APPLIED TO ALL WALLS, BASES, COLUMNS, FLOORS, AND CEILINGS IN AREA UNLESS OTHERWISE NOTED.

10. ALL HOSE BIBS ARE TO BE VANDAL RESISTANT.

11. ANY WINDOW TREATMENTS MUST BE NONCOMBUSTIBLE OR FLAME RETARDANT TREATED IN AN APPROVED MANNER.

CONTRACT NOTES

1. THE PRIME CONTRACT INCLUDES SERVICES, LABOR, AND MATERIALS, APPLIANCES, APPURTENANCES, AND ALL OTHER INCIDENTAL COSTS TO COMPLETE WORK INDICATED, LISTED, AND DESCRIBED IN VARIOUS SECTIONS OF THE SPECIFICATIONS AND SHOWN ON DRAWINGS FOR THE COMPLETION OF THE PROJECT.

2. PERMITS: OWNER WILL OBTAIN AND PAY FOR BUILDING DEPARTMENT PLAN CHECK FEE AND BUILDING PERMIT. THE CONTRACTOR WILL OBTAIN AND PAY COSTS OF ALL OTHER PERMITS, PLAN CHECKING FEES AND INSPECTIONS.

3. IT IS THE INTENTION OF THESE DOCUMENTS TO PROVIDE A PROJECT COMPLETE IN EVERY RESPECT. THE CONTRACTOR WILL BE RESPONSIBLE FOR THIS RESULT AND TO TURN OVER PROJECT IN COMPLETE OPERATING CONDITION REGARDLESS OF WHETHER OR NOT DRAWINGS AND SPECIFICATIONS COVER EVERY INDIVIDUAL ITEM IN MINUTE DETAIL.

4. BELOW GRADE WORK FOR CONNECTION TO LINES FOR SANITARY SEWER MAINS, WATER MAINS, GAS MAINS, STORM DRAINS AND ELECTRICAL WORK ARE A PART OF THIS CONTRACT.

5. GENERAL CONTRACTOR WILL ACT AS COORDINATOR FOR WORK AND WILL COOPERATE WITH OTHER CONTRACTORS SO THE WORK WILL PROCEED WITHOUT DELAYS OR HINDRANCES. CONTRACT REQUIRES A COMPLETE PROJECT, READY FOR USE.

6. THE PROJECT SPECIFICATIONS FOR THE PROJECT ARE PART OF THESE CONTRACT DOCUMENTS.

7. OFF-SITE WORK:
    A. THE CONTRACTOR WILL DO ALL OFF SITE WORK AS REQUIRED AND WILL OBTAIN SEPARATE PERMITS AS REQUIRED BY THE GOVERNING AUTHORITY.
    B. THE CONTRACTOR WILL PROCURE ALL NOTICES AND LICENSES REQUIRED FOR THE COMPLETION OF THE WORK. THE COST OF THESE NOTICES AND LICENSES IS INCIDENTAL TO OTHER ITEMS OF WORK AND NO ADDITIONAL PAYMENT WILL BE MADE FOR COSTS INCURRED IN OBTAINING NOTICES AND LICENSES OR IN CONFORMING TO REQUIREMENTS THEREOF.

LADBS NOTES

1. EXIT SIGNS SHALL BE INTERNALLY OR EXTERNALLY ILLUMINATED.

2. EXIT SIGNS ILLUMINATED BY AN EXTERIOR SOURCE SHALL HAVE AN INTENSITY OF NOT LESS THAN 5 FOOT CANDLES (54 LUX).

3. INTERNALLY ILLUMINATED SIGNS SHALL BE LISTED AND LABELED AND SHALL BE INSTALLED IN ACCORDANCE WITH THE MANUFACTURER INSTRUCTIONS AND SECTION 2702.

4. EXIT SIGNS SHALL BE ILLUMINATED AT ALL TIMES.

5. EXIT SIGNS SHALL BE CONNECTED TO AN EMERGENCY POWER SYSTEM THAT WILL PROVIDE AN ILLUMINATION OF NOT LESS THAN 90 MIN IN CASE OF PRIMARY POWER LOSS.

PLANS PREPARED BY:

TETRA TECH, INC.
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CITY OF LOS ANGELES DEPARTMENT OF PUBLIC WORKS BUREAU OF ENGINEERING

VERT. CONTROL: LA CITY BM 12-04070 (1985 ADJ), NGVD 1929
HORIZ. CONTROL: NAD 83 (ZONE 5) COORDINATES

SHEET TITLE: GENERAL NOTES

PROJECT: SIXTH STREET PARK, ARTS AND RIVER CONNECTIVITY IMPROVEMENTS (PARC)

ADDRESS: SIXTH STREET OVER THE LOS ANGELES RIVER

GARY LEE MOORE, P.E., ENV SP — CITY ENGINEER

DESIGN GROUP

ARCHITECT: MICHAEL MALTZAN — LIC. NO. C-23729 — DATE: 7/11/2022

DESIGNED BY:
DRAWN BY:
CHECKED BY:
APPROVED BY:

THIS PLAN WAS ELECTRONICALLY SIGNED AND STAMPED

MICHAEL MALTZAN C-23729 Exp.10/31/23 STATE OF CALIFORNIA

NO. | REVISIONS: | DATE: | BY:

INDEX NO.

BUILDING NO.

ENGINEERING CITY OF LOS ANGELES

WORK ORDER NO. E700235D
FILE NO. --
DRAWING NO. A0-04

SHEET 198 OF 295 SHEETS

BID SET - NOT FOR CONSTRUCTION

FORM GRN 5

2020 Los Angeles Green Building Code

MANDATORY REQUIREMENTS CHECKLIST

NEWLY CONSTRUCTED NON-RESIDENTIAL BUILDINGS

(COMPLETE AND INCORPORATE THIS FORM INTO THE PLANS)

Permit # ________ - ________ - ________ Date: ________

ITEM #	CODE SECTION	REQUIREMENT	REFERENCE SHEET (Sheet # or N/A)	COMMENTS (e.g. note #, detail # or reason for N/A)
		PLANNING AND DESIGN		
1	5.106.1	Storm water pollution prevention	A0-05	FORM GRN 1
2	5.106.4.1.1	Short-term bicycle parking	N/A	<9 STALLS
3	5.106.4.1.2	Long-term bicycle parking	N/A	<9 STALLS
4	5.106.5.2	Designated parking	14 SPACES	G-003
5	5.106.5.3	Electric vehicle charging	3 / 14 SPACES	G-003
6	5.106.8	Light pollution reduction	A0-05	GRN 15 NOTE 1
7	5.106.10	Grading and paving	L-016	SEE LANDSCAPE PLANS
8	5.106.11	Hardscape alternatives	N/A	NO SOLAR EXPOSURE
		ENERGY EFFICIENCY		
9	5.211.1	Solar ready buildings	N/A	NO SOLAR EXPOSURE
		WATER EFFICIENCY & CONSERVATION		
10	5.303.1.1	New buildings in excess of 50,000 sq. ft.	N/A	< 50,000 SF
11	5.303.1.2	Excess consumption		
12	5.303.2	Water reduction	A0-06	GRN 18N NOTE 2
13	5.303.3	Water conserving plumbing fixtures and fittings	A0-06	GRN 17
14	5.303.3.3	Showerheads	A0-06	GRN 17
15	5.304.1	Outdoor water use in landscape areas	A0-06	GRN 18N NOTE 3
16	5.304.3	Irrigation controller and sensor application	A0-06	GRN 18N NOTE 4
17	5.304.4	Outdoor water use meters	A0-06	GRN 18N NOTE 5
18	5.304.5	Exterior faucets	A0-06	GRN 18N NOTE 6
19	5.305.1	Graywater ready	A0-06	GRN 18N NOTE 7
20	5.305.2	Recycled water supply to fixtures	N/A	NO RECYCLED WATER
21	5.305.3	Cooling towers	N/A	NO COOLING TOWERS
22	5.305.4	Groundwater discharge		SEE CIVIL PLANS
		MATERIAL CONSERVATION & RESOURCE EFFICIENCY		
23	5.407.1	Weather protection	AE4-02,AW4-01	AC4-01 WALL SECTIONS
24	5.407.2.1	Sprinklers	A0-05	GRN 15 NOTE 8
25	5.407.2.2.1	Nonabsorbent floor and wall finishes	AE5-04,AW3-01	AC3-01 SEALED CONCRETE
26		Exterior door protection	N/A	COVERED BY VIADUCT
27	5.407.2.2.2	Flashing	A0-05	GRN 15 NOTE 11
28	5.408.1	Construction waste reduction	A0-05	GRN 15 NOTE 12
29	5.408.3	Excavated soil and land clearing debris	A0-05	GRN 15 NOTE 13

FORM GRN 5

2020 Los Angeles Green Building Code

ITEM #	CODE SECTION	REQUIREMENT	REFERENCE SHEET (Sheet # or N/A)	COMMENTS (e.g. note #, detail # or reason for N/A)
30	5.410.1	Recycling by occupants	N/A	BINS / PARK FACILITIES
31	5.410.2	Commissioning (> 10,000 sq. ft.)	N/A	<10,000 SF
32	5.410.2.1	– Owner's Project Requirements (OPR)	N/A	<10,000 SF
33	5.410.2.2	– Basis of Design (BOD)	N/A	<10,000 SF
34	5.410.2.3	– Commissioning plan	N/A	<10,000 SF
35	5.410.2.4	– Functional performance testing	N/A	<10,000 SF
36	5.410.2.5.1	– Systems manual	N/A	<10,000 SF
37	5.410.2.5.2	– Systems operations training	N/A	<10,000 SF
38	5.410.2.6	– Commissioning report	N/A	<10,000 SF
39	5.410.4	Testing and adjusting (< 10,000 sq. ft.)		
40	5.410.4.2	– Systems		
41	5.410.4.3	– Procedures		
42	5.410.4.4	– Reporting	A0-05	GRN 15 NOTE 14
43	5.410.4.5	– Operation and maintenance manual	A0-05	GRN 15 NOTE 15
44	5.410.4.5.1	– Inspections and reports	A0-05	GRN 15 NOTE 15
		ENVIRONMENTAL QUALITY		
45	5.503.1	Fireplace and Woodstoves	N/A	NONE IN PROJECT
46	5.504.1.3	Temporary ventilation	A0-05	GRN 15 NOTE 17
47	5.504.3	Covering of duct openings and protection of mechanical equipment during construction	A0-05	GRN 15 NOTE 18
48	5.504.4	Finish material pollutant control		
49	5.504.4.1	– Adhesives, sealants, and caulks		
50	5.504.4.3	– Paints and coatings		
51	5.504.4.3.1	– Aerosol paints and coatings	A0-05	GRN 15 NOTE 19
52	5.504.4.3.2	– Verification	A0-05	GRN 15 NOTE 20
53	5.504.4.4	Carpet systems	N/A	NONE IN PROJECT
54	5.504.4.4.1	Carpet cushion	N/A	NONE IN PROJECT
55	5.504.4.5	Composite wood products	N/A	NONE IN PROJECT
56	5.504.4.6	Resilient flooring systems	N/A	NONE IN PROJECT
57	5.504.5.3	Filters	A0-05	GRN 15 NOTE 26
58	5.504.7	Environmental tobacco smoke (ETS) control	A0-05	GRN 15 NOTE 27
59	5.505.1	Indoor moisture control	A0-05	GRN 15 NOTE 28
60	5.506.2	Carbon dioxide (CO_2) monitoring	A0-05	GRN 15 NOTE 29
61	5.507.4.1	Exterior noise transmission prescriptive method		
62		– Exterior noise transmission for roof		
63		– Exterior noise transmission for walls		
64		– Exterior noise transmission for windows		
65	5.507.4.2	Exterior noise transmission performance method		
66	5.507.4.3	Interior sound transmission	N/A	NO ADJACENCIES

FORM GRN 5

2020 Los Angeles Green Building Code

ITEM #	CODE SECTION	REQUIREMENT	REFERENCE SHEET (Sheet # or N/A)	COMMENTS (e.g. note #, detail # or reason for N/A)
67	5.508.1	Ozone depletion and greenhouse gas reductions	A0-05	GRN 15 NOTE 30
68	5.508.2	Supermarket refrigerant leak reduction	A0-05	GRN 15 NOTE 31

FORM GRN 1

STORM WATER POLLUTION CONTROL

(2020 Los Angeles Green Building Code)

Storm Water Pollution Control Requirements for Construction Activities
Minimum Water Quality Protection Requirements for All Construction Projects

The following notes shall be incorporated in the approved set of construction/grading plans and represents the minimum standards of good housekeeping which must be implemented on all construction projects.

Construction means constructing, clearing, grading or excavation that result in soil disturbance. Construction includes structure teardown (demolition). It does not include routine maintenance to maintain original line and grade, hydraulic capacity, or original purpose of facility; emergency construction activities required to immediately protect public health and safety; interior remodeling with no outside exposure of construction material or construction waste to storm water; mechanical permit work; or sign permit work. (Order No. 01-182, NPDES Permit No. CAS004001 – Part 5: Definitions)

1. Eroded sediments and pollutants shall be retained on site and shall not be transported from the site via sheet flow, swales, area drains, natural drainage or wind.
2. Stockpiles of earth and other construction-related materials shall be covered and/or protected from being transported from the site by wind or water.
3. Fuels, oils, solvents and other toxic materials must be stored in accordance with their listing and shall not contaminate the soil nor the surface waters. All approved toxic storage containers are to be protected from the weather. Spills must be cleaned up immediately and disposed of properly and shall not be washed into the drainage system.
4. Non-storm water runoff from equipment and vehicle washing and any other activity shall be contained on the project site.
5. Excess or waste concrete may not be washed into the public way or any drainage system. Provisions shall be made to retain concrete waste on-site until it can be appropriately disposed of or recycled.
6. Trash and construction –related solid wastes must be deposited into a covered receptacle to prevent contamination of storm water and dispersal by wind.
7. Sediments and other materials shall not be tracked from the site by vehicle traffic. The construction entrance roadways must be stabilized so as to inhibit sediments from being deposited into the street/public ways. Accidental depositions must be swept up immediately and may not be washed down by rain or by any other means.
8. Retention basins of sufficient size shall be provided to retain storm water runoff on-site and shall be properly located to collect all tributary site runoff.
9. Where retention of storm water runoff on-site is not feasible due to site constraints, runoff may be conveyed to the street and the storm drain system provided that an approved filtering system is installed and maintained on-site during the construction duration.

FORM GRN 11

VOC AND FORMALDEHYDE LIMITS

2020 Los Angeles Green Building Code

(Incorporate this form into the plans)

2020 Los Angeles Green Building Code Tables 4.504.1, 4.504.2, 4.504.3, 4.504.5, 5.504.4.1, 5.504.4.2, 5.504.4.3, 5.504.4.5

VOC CONTENT LIMITS FOR ARCHITECTURAL COATINGS 1,2
Grams of VOC per Liter of Coating, Less Water and Less Exempt Compounds

COATING CATEGORY 1,2	CURRENT LIMIT
Flat coatings	50
Nonflat coatings	50
Nonflat-high gloss coatings	50
Specialty Coatings	
Aluminum roof coatings	100
Basement specialty coatings	400
Bituminous roof coatings	50
Bituminous roof primers	350
Bond breakers	350
Concrete curing compounds	100
Concrete curing compounds, Roadways & Bridges	350
Concrete/masonry sealers	100
Driveway sealers	50
Dry fog coatings	50
Faux finishing coatings	
Clear Top Coat	100
Decorative Coatings	350
Glazes	350
Japan	350
Trowel Applied Coatings	50
Fire resistive coatings	150
Floor coatings	50
Form-release compounds	100
Graphic arts coatings (sign paints)	200
High temperature coatings	420
Industrial maintenance coatings	100
Low solids coatings[1]	120
Magnesite cement coatings	450
Mastic texture coatings	100
Metallic pigmented coatings	150
Multicolor coatings	250
Pretreatment wash primers	420
Primers, sealers, and undercoaters	100
Reactive penetrating sealers	350
Recycled coatings	250
Roof coatings	50
Roof coatings, aluminum	100
Rust preventative coatings	100
Shellacs	
Clear	730
Opaque	550
Specialty primers, sealers and undercoaters	100
Stains	100
Stains, interior	250
Stone consolidants	450
Swimming pool coatings	340
Traffic marking coatings	100
Tub and tile refinish coatings	420
Waterproofing membranes	100
Wood coatings	275
Wood preservatives	350
Zinc-rich primers	100

[1] Grams of VOC per liter of coating, including water and including exempt compounds.
[2] The specified limits remain in effect unless revised limits are listed in subsequent columns in the table.
[3] Some values in this table are derived from those specified by the California Air Resources Board, Architectural Coatings Suggested Control Measure February 5, 2016. More information is available from the Air Resources Board.

FORMALDEHYDE LIMITS[1]
Maximum Formaldehyde Emissions in Parts per Million

PRODUCT	CURRENT LIMIT
Hardwood plywood veneer core	0.05
Hardwood plywood composite core	0.05
Particleboard	0.09
Medium density fiberboard	0.11
Thin medium density fiberboard[2]	0.13

[1] [illegible]
[2] Thin medium density fiberboard has a maximum thickness of [illegible]

SEALANT VOC LIMIT
Less Water and Less Exempt Compounds in Grams per Liter

SEALANTS	CURRENT VOC LIMIT
Architectural	50
Marine deck	760
Nonmembrane roof	300
Roadway	250
Single-ply roof membrane	450
Other	420
SEALANT PRIMERS	
Architectural	
Nonporous	250
Porous	775
Modified bituminous 500	500
Marine deck	760
Other	750

Note: For additional information regarding methods to measure the VOC content specified in these tables, see South Coast Air Quality Management District Rule 1168.

ADHESIVE VOC LIMIT 1,2
Less Water and Less Exempt Compounds in Grams per Liter

ARCHITECTURAL APPLICATIONS	CURRENT VOC LIMIT
Indoor carpet adhesives	50
Carpet pad adhesives	50
Outdoor carpet adhesives	150
Wood flooring adhesive	100
Rubber floor adhesives	60
Subfloor adhesives	50
Ceramic tile adhesives	65
VCT and asphalt tile adhesives	50
Drywall and panel adhesives	50
Cove base adhesives	50
Multipurpose construction adhesives	70
Structural glazing adhesives	100
Single-ply roof membrane adhesives	250
Other adhesives not specifically listed	50
SPECIALTY APPLICATIONS	
PVC welding	510
CPVC welding	490
ABS welding	325
Plastic cement welding	100
Adhesive primer for plastic	550
Contact adhesive	80
Special purpose contact adhesive	250
Structural wood member adhesive	140
Top and trim adhesive	250
SUBSTRATE SPECIFIC APPLICATIONS	
Metal to metal	30
Plastic foams	50
Porous material (except wood)	50
Wood	30
Fiberglass	80

[1] If an adhesive is used to bond dissimilar substrates together, the adhesive with the highest VOC content shall be allowed.
[2] For additional information regarding methods to measure the VOC content specified in this table, see South Coast Air Quality Management District Rule 1168.

FORM GRN 15

2020 Los Angeles Green Building Code

GREEN BUILDING CODE PLAN CHECK NOTES

NON-RESIDENTIAL BUILDINGS

1. State on plans that the outdoor lighting systems shall be designed and installed to comply with all of the following:
   a. The minimum requirements in California Energy Code for Lighting Zones 1-4
   b. Backlight, Uplight and Glare (BUG) ratings as defined in IESNA TM-15-11
   c. Allowable BUG ratings not exceeding those shown in on Table 5.106.8. (5.106.8)
2. Separate submeters shall be installed in any building or new space within a building that is projected to consume more than 1,000 gal/day. (5.303.1.2)
3. New plumbing fixtures and fittings shall not exceed the maximum allowable flow rate specified in Section 5.303.3. (5.303.3)
4. When a shower is served by more than one showerhead, the combined flow rate of all the showerheads and/or other shower outlets controlled by a single valve shall not exceed 2.0 gallons per minute at 80psi, or the shower shall be designed to only allow one showerhead to be in operation at a time. (5.303.3.3)
5. For projects that include landscape work, the Landscape Certification, Form GRN 12, shall be completed prior to final inspection approval. (State Assembly Bill No. 1881)
6. Installed automatic irrigation system controllers are weather- or soil-based controllers. (WMELO, § 492.7)
7. Weather-resistant exterior wall and foundation envelope shall be detailed in conformance with Los Angeles Building Code Section 1403.2 and California Energy Code Section 150. (5.407.1)
8. Automatic landscape irrigators shall be installed such that it doesn't spray on the structure. (5.407.2.1)
9. New exterior entries and openings subject to foot traffic shall be protected against water intrusion using features such as overhangs, awnings and/or recesses for a combined depth over the entry of at least 4 feet. (5.407.2.2.1)
10. Nonabsorbent interior floor and wall finishes shall be used within at least two feet around and perpendicular to new exterior entries and/or openings subject to foot traffic. (5.407.2.2.1)
11. Exterior entries shall have flashing integrated with the drainage plane. (5.407.2.2.2)
12. Only a City of Los Angeles certified hauler will be used for hauling of construction waste. (5.408.1)
13. 100% of excavated soil and vegetation resulting from land clearing shall be reused or recycled. (5.408.3)
14. A final report for the testing and adjusting of all new systems shall be completed and provided to the field inspector prior to final approval. This report shall be signed by the individual responsible for performing these services. (5.410.4.4)
15. For all new equipment, an Operation & Systems Manual shall be provided to the owner and the field inspector at the time of final inspection. (5.410.4.5)
16. All new gas fireplaces must be direct-vent, sealed combustion type. Wood burning fireplaces are prohibited per AQMD Rule 445. (5.503.1, AQMD Rule 445)
17. If the new HVAC system is used during construction, use return air filters with a MERV of 8. Replace all filters immediately prior to occupancy. (5.504.1.3)
18. All new ducts and other new related air distribution components openings shall be covered with tape, plastic, or sheet metal until the final startup of the heating, cooling and ventilating equipment. (5.504.3)
19. Architectural paints and coatings, adhesives, caulks and sealants shall comply with the Volatile Organic Compound (VOC) limits listed in Tables 5.504.4.1-5.504.4.3. (5.504.4.1-5.504.4.3)
20. The VOC Content Verification Checklist, Form GRN 2, shall be completed and verified prior to final inspection approval. The manufacturer's specifications showing VOC content for all applicable products shall be readily available at the job site and be provided to the field inspector for verification. (5.504.4.3.2)
21. All new carpet installed in the building interior meets the testing and product requirements of one of the following:
   a. Carpet and Rug Institute's Green Label Plus Program
   b. California Department of Public Health's Specification 01350
   c. NSF/ANSI 140 at the Gold level
   d. Scientific Certifications Systems Indoor Advantage™ Gold (5.504.4.4)
22. All new carpet cushion installed in the building interior shall meet the requirements of the Carpet and Rug Institute Green Label program. (5.504.4.4.1)
23. New hardwood plywood, particle board, and medium density fiberboard composite wood products used in the interior or exterior of the building shall meet the formaldehyde limits. (5.504.4.5, 10.504.4.5)
24. The Formaldehyde Emissions Verification Checklist, Form GRN 3, shall be completed prior to final inspection approval. The manufacturer's specifications showing formaldehyde content for all applicable wood products shall be readily available at the job site and be provided to the field inspector for verification. (5.504.4.5)
25. 80% of the total area receiving new resilient flooring shall comply with one or more of the following:
   a. VOC emission limits defined in the CHPS High Performance Products Database
   b. Certified under UL GREENGUARD Gold
   c. Certification under the Resilient Floor Covering Institute (RFCI) FloorScore program
   d. Meet the California Department of Public Health's Specification 01350 (5.504.4.6)
26. Mechanically ventilated buildings shall have air filter with a Minimum Efficiency Reporting Value (MERV) of 13 or higher. Filters shall be installed prior to occupancy and recommendations for maintenance with filters of the same value shall be included in the operation and maintenance manual. (5.504.5.3)
27. Designated outdoor smoking area shall be at least 25 feet from an outdoor air intake or operable windows. (5.504.7)
28. Buildings shall meet or exceed the provisions of California Building Code, CCR, Title 24, Part 2 Sections 1202 (Ventilation) and Chapter 14 (Exterior Walls). For additional measures, see Section 5.407.2 (5.505.1)
29. Buildings that use Demand Control Ventilation shall have CO_2 sensors and ventilation controls installed in accordance with the requirements of the current edition of the California Energy Code, CCR, Title 24, Part 6, Section 121(c). (5.506.2)
30. The HVAC, refrigeration, and fire suppression equipment shall not contain CFC or Halons. (5.508.1)
31. Retail food stores of 8,000 sq. ft. or more of conditioned area that have a commercial refrigeration system with a global warming potential (GWP) of 150 or greater shall have leak reduction measures in accordance with LAMC Section 5.508.2. Separate mechanical plan check is required. (5.508.2)

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CITY OF LOS ANGELES — DEPARTMENT OF PUBLIC WORKS — BUREAU OF ENGINEERING

VERT. CONTROL: LA CITY BM 12-04070 (1985 ADJ), NGVD 1929
HORIZ. CONTROL: NAD 83 (ZONE 5) COORDINATES

GARY LEE MOORE, P.E., ENV SP — CITY ENGINEER
DESIGN GROUP
ARCHITECT: MICHAEL MALTZAN — LIC. NO. C-23729 — DATE: 7/11/2022
DESIGNED BY:
DRAWN BY:
CHECKED BY:
APPROVED BY:

SHEET TITLE: GREEN FORMS
PROJECT: SIXTH STREET PARK, ARTS AND RIVER CONNECTIVITY IMPROVEMENTS (PARC)
ADDRESS: SIXTH STREET OVER THE LOS ANGELES RIVER

THIS PLAN WAS ELECTRONICALLY SIGNED AND STAMPED

NO. | REVISIONS: | DATE: | BY:
INDEX NO.
BUILDING NO.

WORK ORDER NO.: E700235D
FILE NO.: --
DRAWING NO.: A0-05
SHEET 199 OF 295 SHEETS

BID SET - NOT FOR CONSTRUCTION

THE CITY OF LOS ANGELES OR ITS OFFICERS OR AGENTS SHALL NOT BE RESPONSIBLE FOR THE ACCURACY OR COMPLETENESS OF ELECTRONIC COPIES OF THIS PLAN SHEET

REVISION DATES (DESIGN STAGE ONLY)

Sheet Version 3.0

2020 Los Angeles Green Building Code

WORKSHEET (WS-1)
BASELINE WATER USE

BASELINE WATER USE CALCULATION TABLE									
FIXTURE TYPE	FLOW RATE		DURATION		DAILY USES		OCCUPANTS		GALLONS PER DAY
Showerheads, residential	2.0 gpm @ 80 psi	x	8 min.	x	1	x	Note 1a	=	
Showerheads, nonresidential	2.0 gpm @ 80 psi	x	5 min.	x	1	x		=	
Lavatory faucets, residential	1.2 gpm @ 60 psi	x	0.25 min.	x	3	x		=	
Lavatory Faucets nonresidential/ public uses	0.5 gpm @ 60 psi	x	0.25 min	x	3	x		=	
Kitchen faucets	1.8 gpm @ 60psi	x	4 min.	x	1	x	Note 1b	=	
Wash fountains	1.8 gpm/20 [rim space(in) @ 60 psi]	x		x	3	x		=	
Metering faucets, residential	0.25 gallons/cycle	x	0.25 min.	x	3	x		=	
Metering faucets, non-residential	0.20 gallons/cycle	x	0.25 min.	x	3	x		=	
Metering faucets for wash fountains	0.20 gal/cycle/20 [rim space (in.) @ 60 psi]	x	0.25 min.	x	3	x		=	
Water Closets	1.28 gallons/flush	x	1 flush	x	1 male[2] 3 females	x		=	
Urinals	0.125 gal/flush	x	1 flush	x	2 males	x		=	
Total daily baseline water use (BWU)								=	

1. Refer to Table A, Chapter 4 of the Los Angeles Plumbing Code, for occupant load factors.
   a. Shower use by occupants depends on the type of use of a building or portion of a building, e.g. total occupant load for a health club, but only a fraction of the occupants in an office building as determined by the anticipated number of users.
   b. Kitchen faucet use is determined by occupant load of the area served by the fixture.
2. The daily use number shall be increased to three if urinals are not installed in the room.

2020 Los Angeles Green Building Code

WORKSHEET (WS-2)
BASELINE WATER USE

20- PERCENT REDUCTION WATER USE CALCULATION TABLE									
FIXTURE TYPE	FLOW RATE		DURATION		DAILY USES		OCCUPANTS		GALLONS PER DAY
Showerheads, residential		x	8 min.	x	1	x	Note 1a	=	
Showerheads, nonresidential		x	5 min.	x	1	x		=	
Lavatory faucets, residential		x	0.25 min.	x	3	x		=	
Lavatory Faucets nonresidential/ public uses		x	0.25 min	x	3	x		=	
Kitchen faucets		x	4 min.	x	1	x	Note 1b	=	
Wash fountains		x		x	3	x		=	
Metering faucets, residential		x	0.25 min.	x	3	x		=	
Metering faucets, Non-residential		x	0.25 min.	x	3	x		=	
Metering faucets for wash fountains		x	0.25 min.	x	3	x		=	
Water Closets		x	1 flush	x	1 male[3] 3 females	x		=	
Urinals		x	1 flush	x	2 males	x		=	
Urinals Nonwater supplied	0.0 gal/ flush	x	1 flush	x	2 male	x		=	0
Proposed water use (BWU)								=	
20% Reduction ______ (BWU from WS-1) x 0.80 = ______ Allowable water use									
__% Reduction ______ (BWU from WS-1) x 0.__ = ______ Allowable water use									

1. For occupancies, refer to Table A, Chapter 4, Los Angeles Plumbing Code, for occupant load factors.
   a. Shower use by occupants depends on the type of use of a building or portion of a building, e.g., total occupant load for a health club, but only a fraction of the occupants in an office building as determined by the anticipated number of users.
   b. Kitchen faucet use is determined by the occupant load of the area served by the fixture.
2. Includes single and dual flush water closets with an effective flush of 1.28 gallons or less.
   Single flush toilets - The effective flush volume shall not exceed 1.28 gallons (4.8 liters). The effective flush volume is the average flush volume when tested in accordance with ASME A112.19.2.
   Dual flush toilets - The effective flush volume shall not exceed 1.28 gallons (4.8 liters). The effective flush volume is defined as the composite, average flush volume of two reduced flushes and one full flush. Flush volumes will be tested in accordance with ASME A112.19.2 and ASME A112.19.14.
3. The daily use number shall be increased to three if urinals are not installed in the room.
4. Where complying faucets are unavailable, aerators rated at 35 gpm or other means may be used to achieve reduction.

PLUMBING FIXTURE FLOW RATES
FORM GRN 17

Non-Residential Occupancies
2020 Los Angeles Green Building Code
(Incorporate this form into the plans)

SECTION 5.303.2
WATER REDUCTION FIXTURE FLOW RATES

FIXTURE TYPE	MAXIMUM ALLOWABLE FLOW RATE
Showerheads	1.8 gpm @ 80 psi
Lavatory faucets, residential	1.2 gpm @ 60 psi[1,3]
Lavatory Faucets, nonresidential	0.4 gpm @ 60 psi[1,3]
Kitchen faucets	1.5 gpm @ 60 psi[2,4,5]
Wash fountains	1.8 gpm for every 20 in. of rim space @60 psi
Metering faucets	0.2 gallons/cycle
Metering faucets for wash fountains	0.2 gpm for every 20 in. of rim space @ 60 psi
Gravity tank type water closets	1.28 gallons/flush[6]
Flushometer tank water closets	1.28 gallons/flush[6]
Flushometer valve water closets	1.28 gallons/flush[6]
Urinals	0.125 gallons/flush
Clothes Washers	ENERGY-STAR certified
Dishwashers	ENERGY-STAR certified

[1] Lavatory faucets shall not have a flow rate less than 0.8 gpm at 20 psi.
[2] Kitchen faucets may temporarily increase flow above the maximum rate, but not above 2.2gpm @ 60psi and must default to a maximum flow rate of 1.8 gpm @ 60psi.
[3] Where complying faucets are unavailable, aerators or other means may be used to achieve reduction.
[4] Kitchen faucets with a maximum 1.8 gpm flow rate may be installed in buildings that have water closets with a maximum flush rate of 1.06 gallons/flush installed throughout
[5] This requirement does not apply to faucets in commercial kitchens.
[6] Includes single and dual flush water closets with an effective flush of 1.28 gallons or less.
Single Flush Toilets - The effective flush volume shall not exceed 1.28 gallons (4.8 liters). The effective flush volume is the average flush volume when tested in accordance with ASME A112.19.233.2.
Dual Flush Toilets - The effective flush volume shall not exceed 1.28 gallons (4.8 liters). The effective flush volume is defined as the composite, average flush volume of two reduced flushes and one full flush. Flush volumes will be tested in accordance with ASME A112.19.2 and ASME A112.19.14.

2020 Los Angeles Green Building Code
FORM GRN 18N

WATER CONSERVATION ORDINANCE NOTES
NON-RESIDENTIAL BUILDINGS

1. For new buildings or additions exceeding 50,000 ft², install a separate water meter or sub-meter for the following areas:
   A. For each individual leased, rented, or other tenant space within the building projected to consume more than 100 gpd (380 L/day).
   B. Where potable water is used for industrial/process uses, for water supplied to the following subsystems:
      a. Makeup water for cooling towers where flow through is greater than 500 gpm (30 L/s).
      b. Makeup water for evaporative coolers greater than 6 gpm (0.04 L/s).
      c. Steam and hot-water boilers with energy input more than 500,000 Btu/h (147 kW).
   C. For each building that uses more than 100 gpd on a parcel containing multiple buildings. (5.303.1.1)
2. Provide a 20% reduction in the overall potable water use for each building. The reduction shall be based on the maximum allowable water use per plumbing fixture and fittings as required by the Los Angeles Plumbing Code. New projects having a water supply of 2"or less and additions and alterations projects may use the prescriptive method outlined in this section. (5.303.2)
3. A water budget for landscape irrigation use that conforms to the California Department of Water Resources' Model Water Efficient Landscape Ordinance (MWELO) is required for new landscape areas of 500 sqft or more.
   The following methods to reduce potable water use in landscape areas include, but are not limited to, use of captured rainwater, recycled water, graywater, or water treated for irrigation purposes and conveyed by a water district or public entity. (5.304.1, 5.304.2)
4. New buildings on a site with 1,000 square feet or more of cumulative landscape area shall have separate meters or submeters for outdoor water use. (5.304.4)
5. Additions and alterations on a site with 1,000 square feet of cumulative landscape area which require water service upgrade shall have separate meters or submeters for outdoor water use. (5.304.4)
6. Locks shall be installed on all publicly accessible exterior faucets and hose bibs. (5.304.5)
7. Except as provided in this section, for sites with over 500 square feet of landscape area, alternate waste piping shall be installed to permit discharge from the clothes washer, bathtub, showers, and bathroom/restrooms wash basins to be used for a future graywater irrigation system (5.305.1)
8. Except as provided in this section, where City-recycled water is available within 200 feet of the property line, water closets, urinals, floor drains, and process cooling and heating in the building shall be supplied from recycled water and shall be installed in accordance with the Los Angeles Plumbing Code. (5.305.2)
9. Cooling towers shall comply with one of the following:
   A. Shall have a minimum of 6 cycles of concentration (blowdown)
   B. A minimum of 50% of the makeup water supply to the cooling towers shall come from non-potable water sources, including treated backwash. (5.305.3)
10. Develop and construct a system for onsite reuse of the groundwater where groundwater is being extracted and discharged. Alternatively, the groundwater may be discharged to the sewer. (5.305.4)
11. Provide a hot water system complying with one of the following:
   A. The hot water system shall not allow more than 0.6 gallons of water to be delivered to any fixture before hot water arrives.
   B. Where a hot water recirculation or electric resistance heat trace wire system is installed, the branch from the recirculating loop or electric resistance heat trace wire to the fixture shall contain a maximum of 0.6 gallons. (Los Angeles Plumbing Code Section 610.4.1)

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CITY OF LOS ANGELES — DEPARTMENT OF PUBLIC WORKS — BUREAU OF ENGINEERING
VERT. CONTROL: LA CITY BM 12-04070 (1985 ADJ), NGVD 1929
HORIZ. CONTROL: NAD 83 (ZONE 5) COORDINATES
SHEET TITLE: GREEN FORMS
PROJECT: SIXTH STREET PARK, ARTS AND RIVER CONNECTIVITY IMPROVEMENTS (PARC)
ADDRESS: SIXTH STREET OVER THE LOS ANGELES RIVER
GARY LEE MOORE, P.E., ENV SP — CITY ENGINEER
DESIGN GROUP
ARCHITECT: MICHAEL MALTZAN — LIC. NO. C-23729 — DATE: 7/11/2022
DESIGNED BY:
DRAWN BY:
CHECKED BY:
APPROVED BY:
THIS PLAN WAS ELECTRONICALLY SIGNED AND STAMPED.
NO. | REVISIONS: | DATE: | BY:
INDEX NO.
BUILDING NO.
ENGINEERING — CITY OF LOS ANGELES
WORK ORDER NO. E700235D
FILE NO. --
DRAWING NO. A0-06
SHEET 200 OF 295 SHEETS

BID SET - NOT FOR CONSTRUCTION

BUILDING TRUST

PRODUCT DATA SHEET
Sarnafil® G 410-48 Feltback EnergySmart

SARNAFIL G 410 ROOF MEMBRANE IS A PVC THERMOPLASTIC MEMBRANE

PRODUCT DESCRIPTION

Sarnafil® G 410-48 Feltback EnergySmart Roof Membrane is a PVC thermoplastic membrane produced with an integral fiberglass mat reinforcement for excellent dimensional stability, is highly reflective, guaranteed for thickness, with heat-weldable seams, and a unique lacquer coating applied to the top of the membrane to reduce dirt pick up.

USES

Sarnafil G 410 is used in adhered applications with various adhesives over various substrates.

Areas of Application
- New Roofs
- Reroofs
- Recovers

CHARACTERISTICS / ADVANTAGES

EnergySmart Roof®

- Highly reflective
- Excellent dimensional stability
- Factory applied lacquer coated to reduce dirt pick up
- Hot-air welded seams for long-term performance
- Proven membrane performance
- Guaranteed thickness
- Superior fire resistance

APPROVALS / STANDARDS

- FM Global
- Underwriters Laboratories
- Underwriters Laboratories of Canada
- ICC Code Compliance – ESR 1157
- Miami-Dade County
- Florida Building Code
- NSF/ANSI 347: Platinum Certified
- ENERGY STAR®
- California Title 24
- LEED / Green Globes

PRODUCT INFORMATION

Chemical Base	High-quality, PVC membrane containing ultraviolet light stabilizers, flame retardant and polyester scrim reinforcement with a unique lacquer coating on the top surface.	
Recycled Content	9% Pre-consumer, 1% Post-consumer	
Reinforcing Material	Fiberglass	
Packaging	**48 mil (1.2 mm) Membrane*** 10 ft x 100 ft (3 m x 30 m) roll, 363 lbs (165 kg) per roll, 9 rolls per pallet * Made to order, minimum volume required, extended production lead times. Consult with Sika – Roofing representative for further information.	
Appearance / Color	• Top: White, Reflective Gray, Tan, and Patina Green • Bottom: Gray	
Shelf Life	N/A	
Storage Conditions	Store rolls on pallets and fully protected from the weather with clean canvas tarpaulins. Unvented polyethylene tarpaulins are not accepted due to the accumulation of moisture beneath the tarpaulin in certain weather conditions that may affect the ease of membrane weldability.	
Overall Thickness	48 mil 45 mil	(ASTM D-751) (ASTM Type II D-4434 Spec. Requirement)
Thickness Above Scrim	22 mil 16 mil	(ASTM Type II D-4434 Spec. Requirement)
Felt Weight	9 oz/yd²	

TECHNICAL INFORMATION

Resistance to Static Puncture	Pass 33 lbf (15 kg)	(ASTM D-5602) (ASTM Type II D-4434 Spec. Requirement)
Resistance to Dynamic Puncture	Pass 7.3 ft-lbf (10 J)	(ASTM D-5635) (ASTM Type II D-4434 Spec. Requirement)
Tensile Strength	60 lbf (267 N) 55 lbf (245 N)	(ASTM D-751) (ASTM Type II D-4434 Spec. Requirement)
Elongation	250 & 220 % MD & CMD¹ 250 & 220 % MD & CMD¹ ¹MD = Machine Direction, CMD = Cross Machine Direction	(ASTM D-751) (ASTM Type II D-4434 Spec. Requirement)
Linear Dimensional Change	-0.02 % 0.1 %	(ASTM D-1204) (ASTM Type II D-4434 Spec. Requirement)
Tear Strength	15 lbf (67 N) 10 lbf (45 N)	(ASTM D-1004) (ASTM Type II D-4434 Spec. Requirement)
Seam Strength	Pass 75 % of original² ²Failure occurs through membrane rupture not seam failure	(ASTM D-751) (ASTM Type II D-4434 Spec. Requirement)
Low Temperature Bend	Pass Pass -40°F (-40°C)	(ASTM D-2136) (ASTM Type II D-4434 Spec. Requirement)

Retention of Properties after Heat Ageing	Tensile Strength, % of original: Pass Elongation, % of original: Pass Tensile strength, % of original: 90 Elongation, % of original: 90	(ASTM D-3045) (ASTM D-715) (ASTM Type II D-4434 Spec. Requirement)
UV Exposure	10,000 hours 5,000 hours	(ASTM G-154) (ASTM Type II D-4434 Spec. Requirement)
	Cracking (7x magnification): None Discoloration (by observation): Negligible Crazing (7x magnification): None	
Weight Change after Immersion in Water	1.9 % ± 3.0 %	(ASTM D-570) (ASTM Type II D-4434 Spec. Requirement)

Solar Reflectance

EnergySmart Colors	Initial Solar Reflectance¹	3-Year Solar Reflectance¹
EnergySmart White²	0.85	0.74
EnergySmart Tan²	0.73	0.65
EnergySmart Reflective Gray²	0.73	0.66
EnergySmart Patina Green³	0.55	0.46

¹ Solar reflectance testing according to ASTM C 1549
² Meets ENERGY STAR®, LEED, Green Globes, and California's Title 24 criteria for Low and Steep Slope applications
³ Meets ENERGY STAR®, LEED, Green Globes, and California's Title 24 criteria for Steep Slope applications

Thermal Emittance

EnergySmart Colors	Initial Thermal Emittance¹	3-Year Thermal Emittance¹
EnergySmart White²	0.86	0.84
EnergySmart Tan²	0.85	0.86
EnergySmart Reflective Gray²	0.89	0.88
EnergySmart Patina Green³	0.86	0.85

¹ Thermal Emittance testing according to ASTM C 1371, Slide Method
² Meets ENERGY STAR®, LEED, Green Globes, and California's Title 24 criteria for Low and Steep Slope applications
³ Meets ENERGY STAR®, LEED, Green Globes, and California's Title 24 criteria for Steep Slope applications

Solar Reflectance Index

EnergySmart Colors	Initail Solar Reflectance Index	3-Year Solar Reflectance Index
EnergySmart White¹	107	90
EnergySmart Tan¹	89	78
EnergySmart Reflective Gray¹	90	80
EnergySmart Patina Green²	64	51

¹ Meets ENERGY STAR®, LEED, Green Globes, and California's Title 24 criteria for Low and Steep Slope applications
² Meets ENERGY STAR®, LEED, Green Globes, and California's Title 24 criteria for Steep Slope applications

APPLICATION INSTRUCTIONS

APPLICATION

Sarnafil G 410 is installed after proper preparation of the approved substrate. The membrane is unrolled into Sarnacol adhesive in accordance with Sika's technical requirements and then pressed into place with a minimum 100 lb (45 kg) steel roller. Sarnafil G 410 seams are heat-welded together by trained operators using hot-air welding equipment. Different Sarnacol adhesives require different application methods. Please consult Sika's Specifications or Applicator Handbook for detailed installation procedures.

MAINTENANCE

Standard maintenance of Sarnafil® or Sikaplan® systems should include regular inspection of flashings, drains and termination sealants at least twice a year and after each storm.

AVAILABILITY/WARRANTY

Availability
From Sika Corporation – Roofing Authorized Applicators for use within Sarnafil or Sikaplan systems.

Warranty
Upon successful completion of the installed roof by the Sika Authorized Applicator, Sika Corporation will provide a warranty to the Building Owner via the Sika Authorized Applicator

BASIS OF PRODUCT DATA

Results may differ based upon statistical variations depending upon mixing methods and equipment, temperature, application methods, test methods, actual site conditions and curing conditions.

OTHER RESTRICTIONS

See Legal Disclaimer.

ENVIRONMENTAL, HEALTH AND SAFETY

For further information and advice regarding transportation, handling, storage and disposal of chemical products, user should refer to the actual Safety Data Sheets containing physical, environmental, toxicological and other safety related data. User must read the current actual Safety Data Sheets before using any products. In case of an emergency, call CHEMTREC at 1-800-424-9300, International 703-527-3887.

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LOS ANGELES, CALIFORNIA 90071
Phone: (213) 279-3283

MICHAEL MALTZAN ARCHITECTURE
2801 HYPERION AVENUE, STUDIO 107 | LOS ANGELES, CA 90027 | (323) 913 3098

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VERT. CONTROL: LA CITY BM 12-04070 (1985 ADJ), NGVD 1929
HORIZ. CONTROL: NAD 83 (ZONE 5) COORDINATES
SHEET TITLE: MATERIAL PRODUCT DATA
PROJECT: SIXTH STREET PARK, ARTS AND RIVER CONNECTIVITY IMPROVEMENTS (PARC)
ADDRESS: SIXTH STREET OVER THE LOS ANGELES RIVER

GARY LEE MOORE, P.E., ENV SP — CITY ENGINEER
DESIGN GROUP
ARCHITECT: MICHAEL MALTZAN — LIC. NO. C-23729 — DATE: 7/11/2022
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DRAWING NO. A0-07
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2 CAFE & RESTROOM PERSPECTIVE VIEW
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No Scale

1 STAFF & RESTROOM PERSPECTIVE VIEW
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SHEET TITLE: PROJECT VIEWS
PROJECT: SIXTH STREET PARK, ARTS AND RIVER CONNECTIVITY IMPROVEMENTS (PARC)
ADDRESS: SIXTH STREET OVER THE LOS ANGELES RIVER

WORK ORDER NO. E700235D
FILE NO. --
DRAWING NO. A0-11
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1 SITE PLAN

Scale: 1"=120'

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HORIZ. CONTROL: NAD 83 (ZONE 5) COORDINATES

SHEET TITLE: SITE PLAN

PROJECT: SIXTH STREET PARK, ARTS AND RIVER CONNECTIVITY IMPROVEMENTS (PARC)

ADDRESS: SIXTH STREET OVER THE LOS ANGELES RIVER

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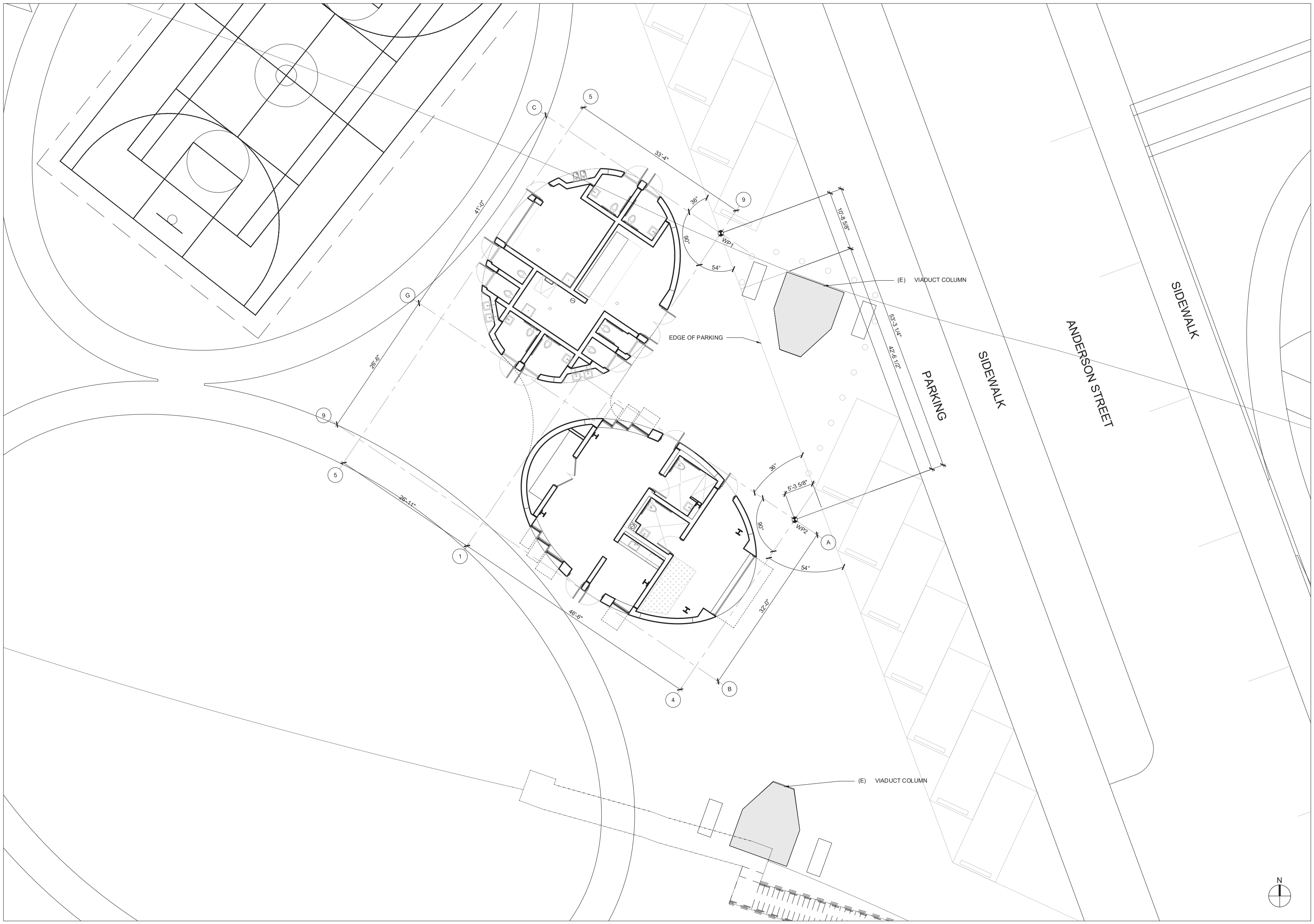

1 EAST BUILDING SITE PLAN

Scale: 1/8"=1'-0"

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HORIZ. CONTROL: NAD 83 (ZONE 5) COORDINATES

SHEET TITLE: WEST BUILDINGS GEOMETRY PLAN

PROJECT: SIXTH STREET PARK, ARTS AND RIVER CONNECTIVITY IMPROVEMENTS (PARC)

ADDRESS: SIXTH STREET OVER THE LOS ANGELES RIVER

GARY LEE MOORE, P.E., ENV SP — CITY ENGINEER

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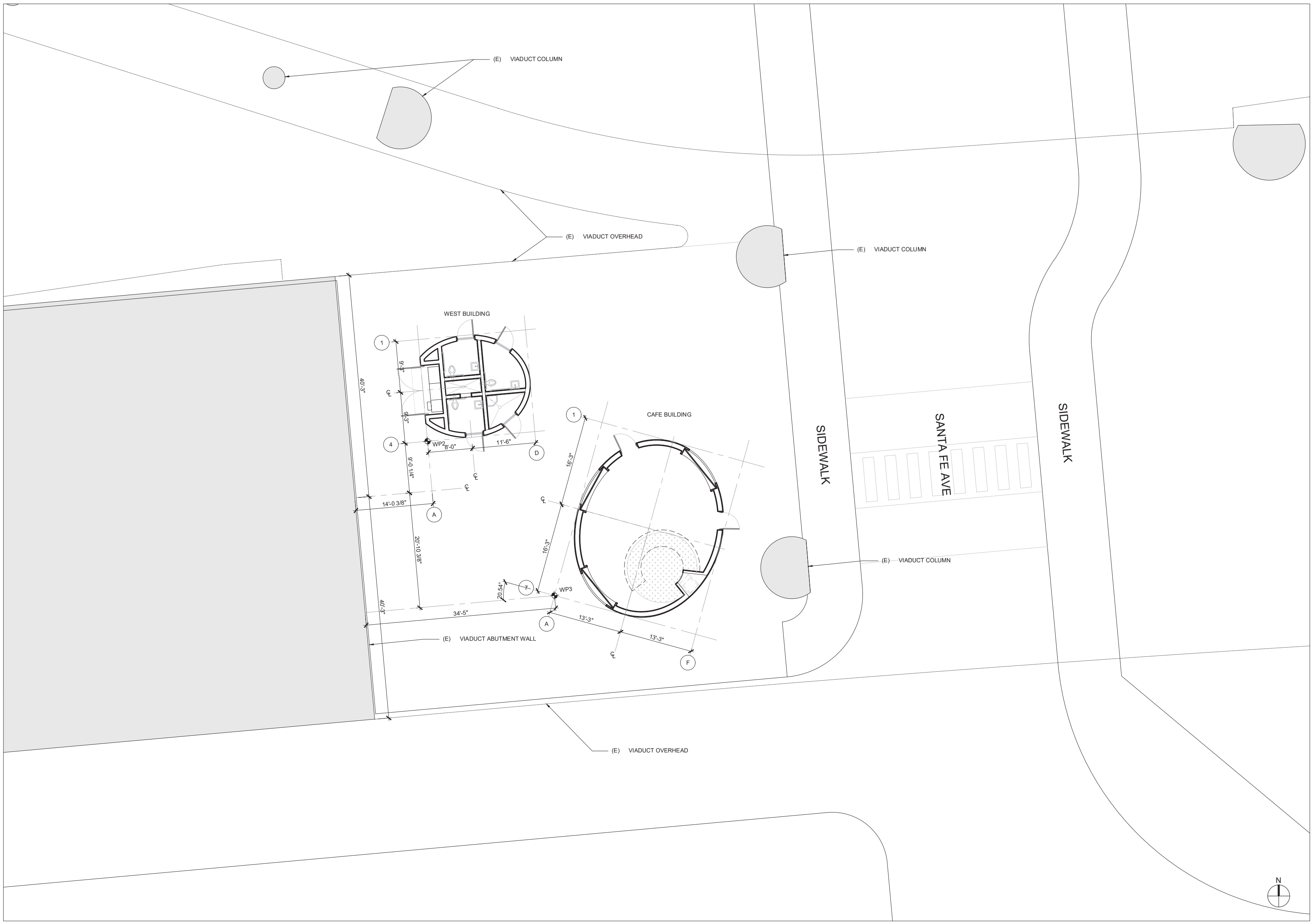

1 WEST BUILDING AND CAFE BUILDING SITE PLAN
Scale: 1/8"=1'-0"

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SHEET TITLE: WEST BUILDINGS GEOMETRY PLAN
PROJECT: SIXTH STREET PARK, ARTS AND RIVER CONNECTIVITY IMPROVEMENTS (PARC)
ADDRESS: SIXTH STREET OVER THE LOS ANGELES RIVER

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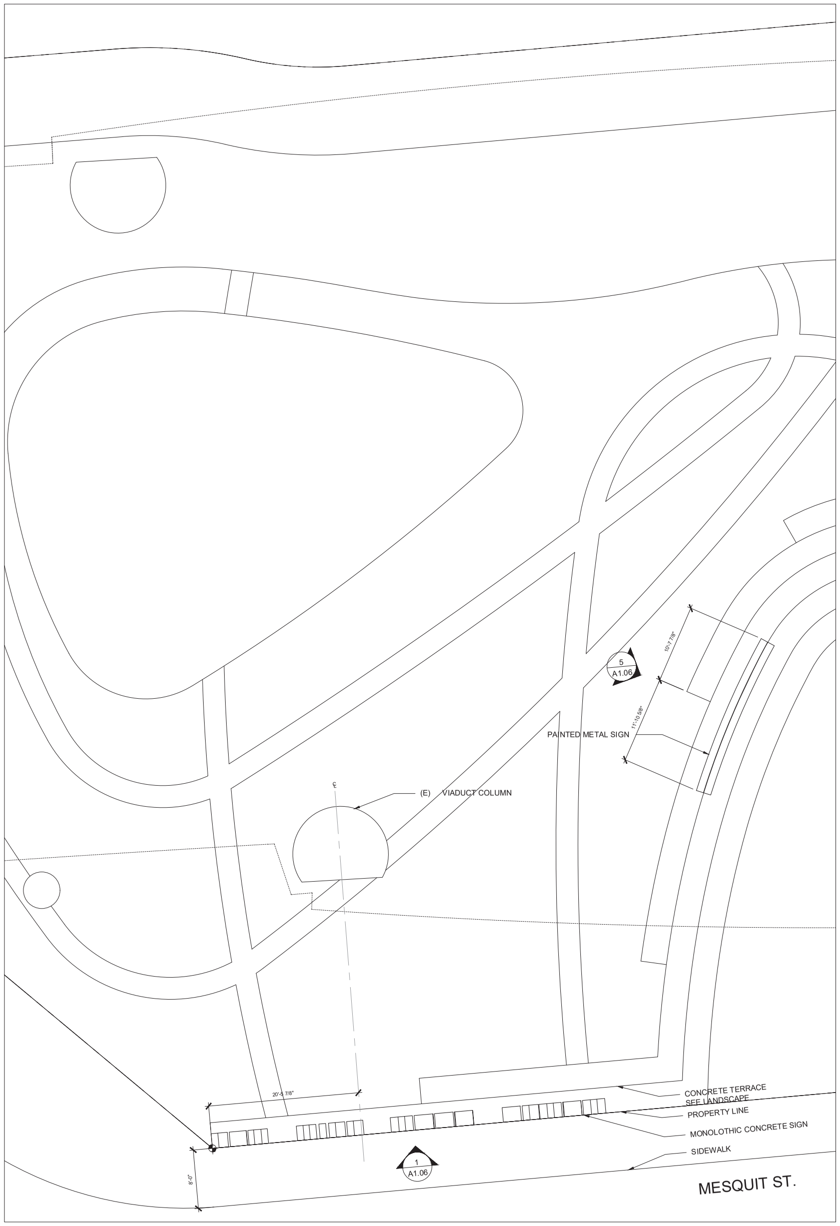
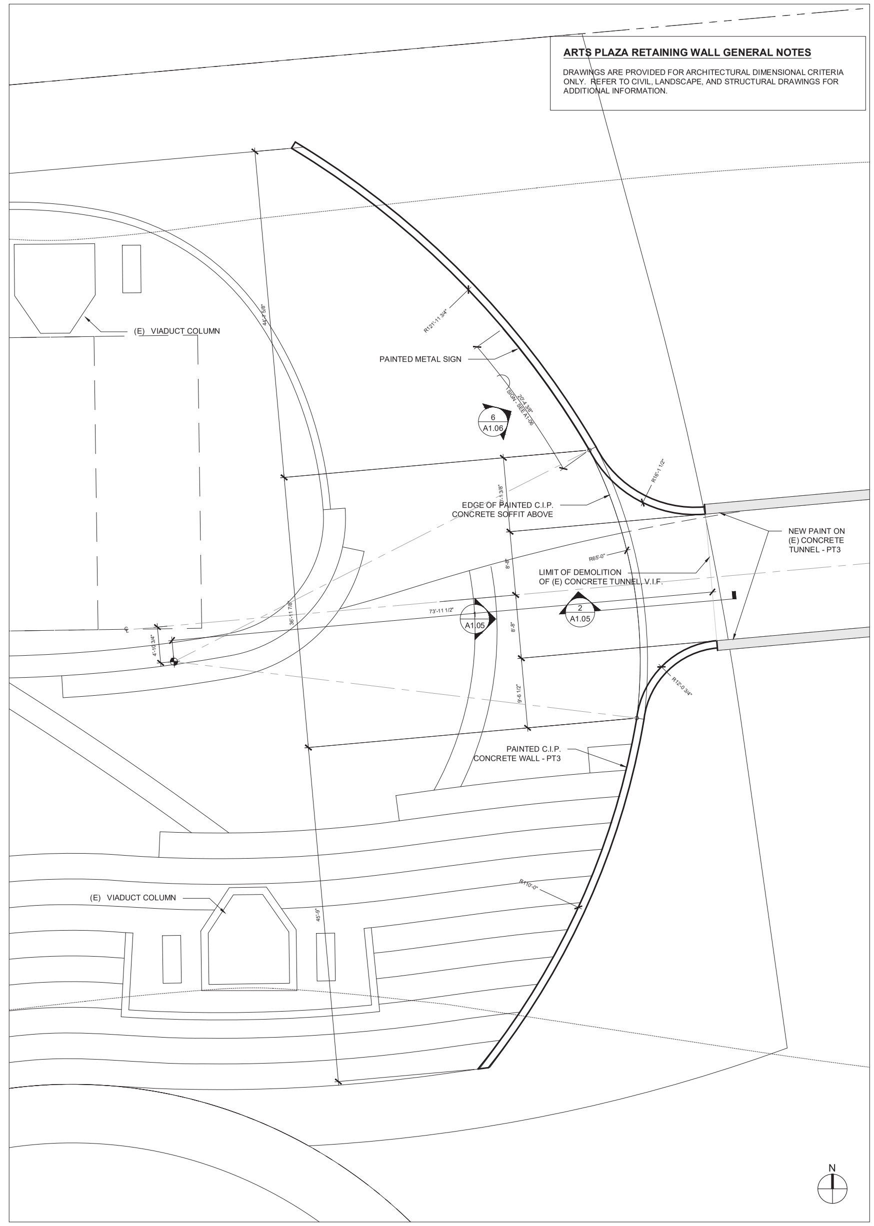


2 ARTS PLAZA SIGNAGE PLAN

Scale: 1/8"=1'-0"



1 ARTS PLAZA RETAINING WALL PLAN

Scale: 1/8"=1'-0"

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SHEET TITLE: ARTS PLAZA RETAINING WALL & SIGNAGE
PROJECT: SIXTH STREET PARK, ARTS AND RIVER CONNECTIVITY IMPROVEMENTS (PARC)
ADDRESS: SIXTH STREET OVER THE LOS ANGELES RIVER

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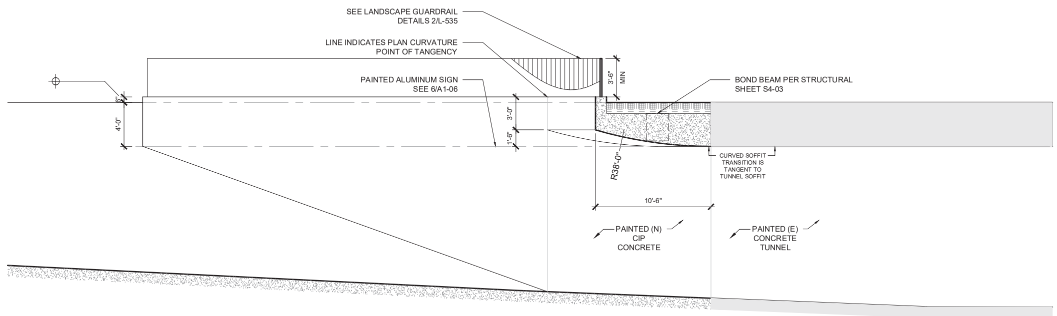
ARTS PLAZA RETAINING WALL GENERAL NOTES

DRAWINGS ARE PROVIDED FOR ARCHITECTURAL DIMENSIONAL CRITERIA ONLY. REFER TO CIVIL, LANDSCAPE, AND STRUCTURAL DRAWINGS FOR ADDITIONAL INFORMATION.



2 ARTS PLAZA RETAINING WALL SECTION
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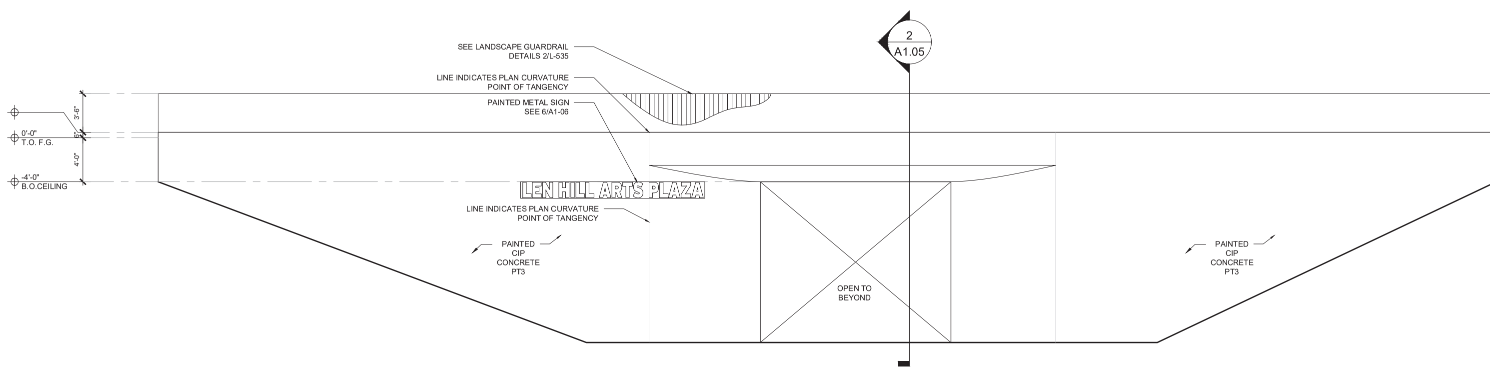

1 ARTS PLAZA RETAINING WALL ELEVATION
Scale: 1/8"=1'-0"

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SHEET TITLE: ARTS PLAZA RETAINING WALL
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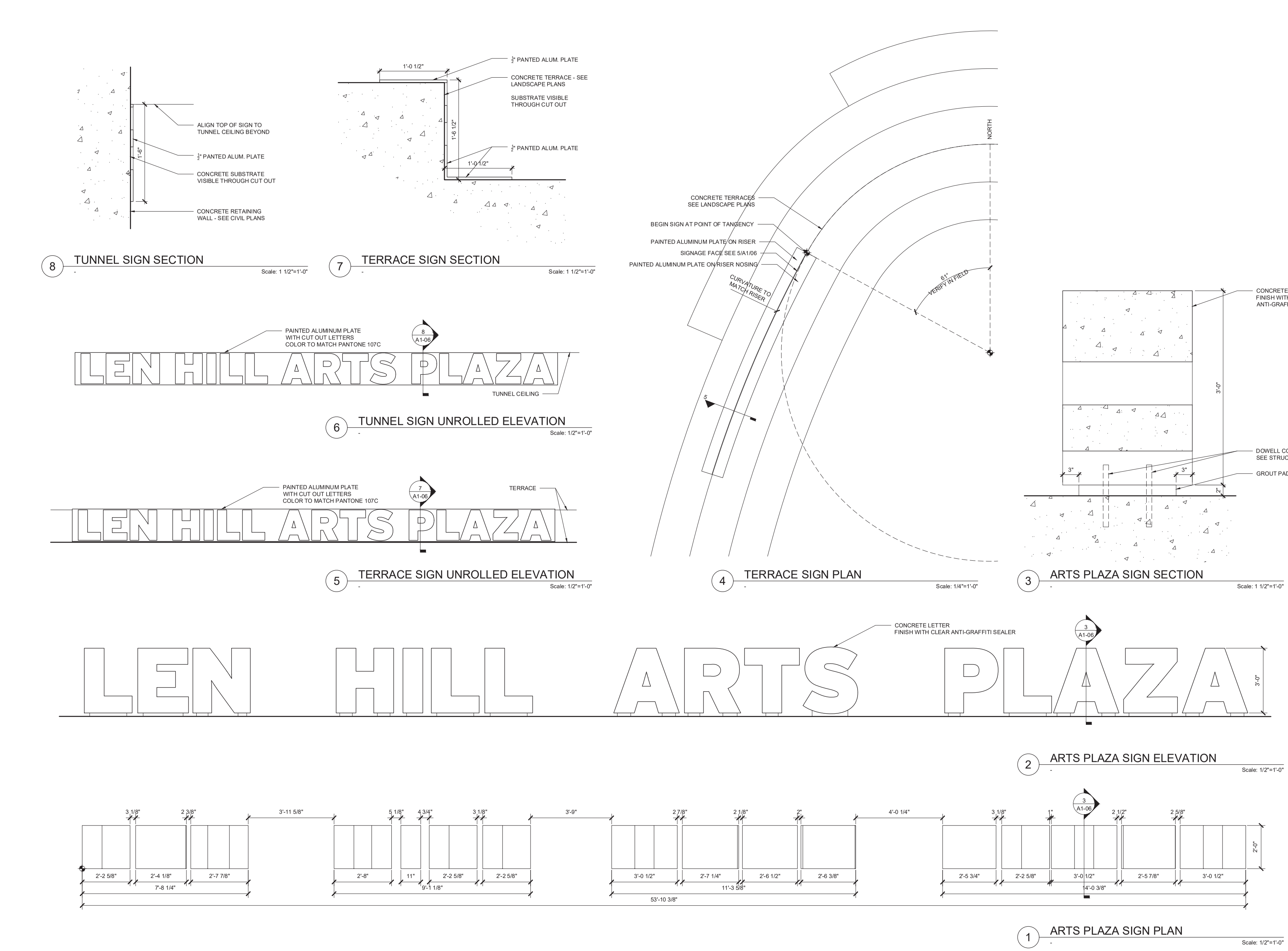

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SHEET TITLE: ARTS PLAZA SIGNAGE
PROJECT: SIXTH STREET PARK, ARTS AND RIVER CONNECTIVITY IMPROVEMENTS (PARC)
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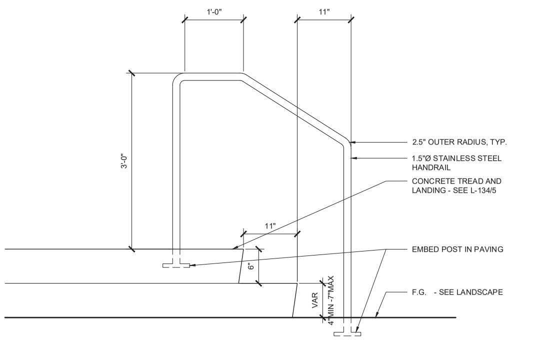
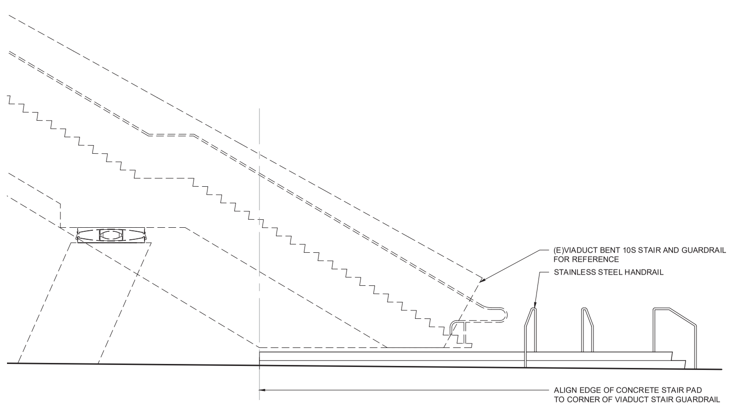


3 LANDING HANDRAIL

Scale: 1 1/2"=1'-0"



2 LANDING ELEVATION

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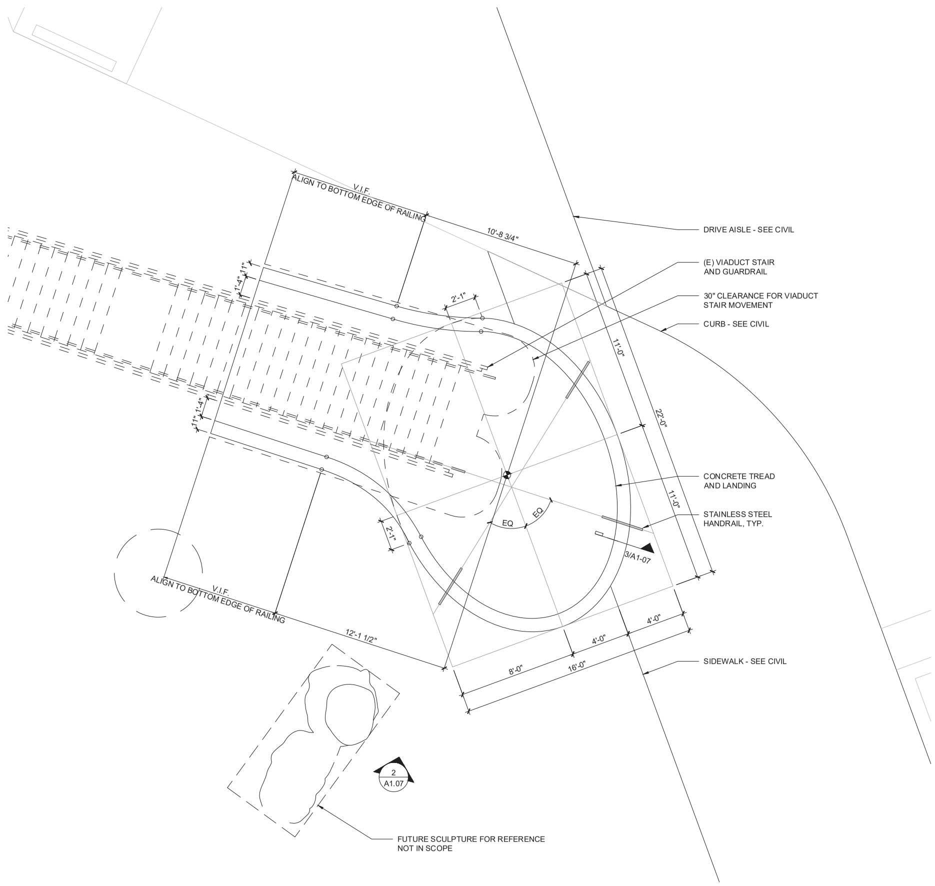

1 BENT 10S LANDING PLAN

Scale: 1/4"=1'-0"

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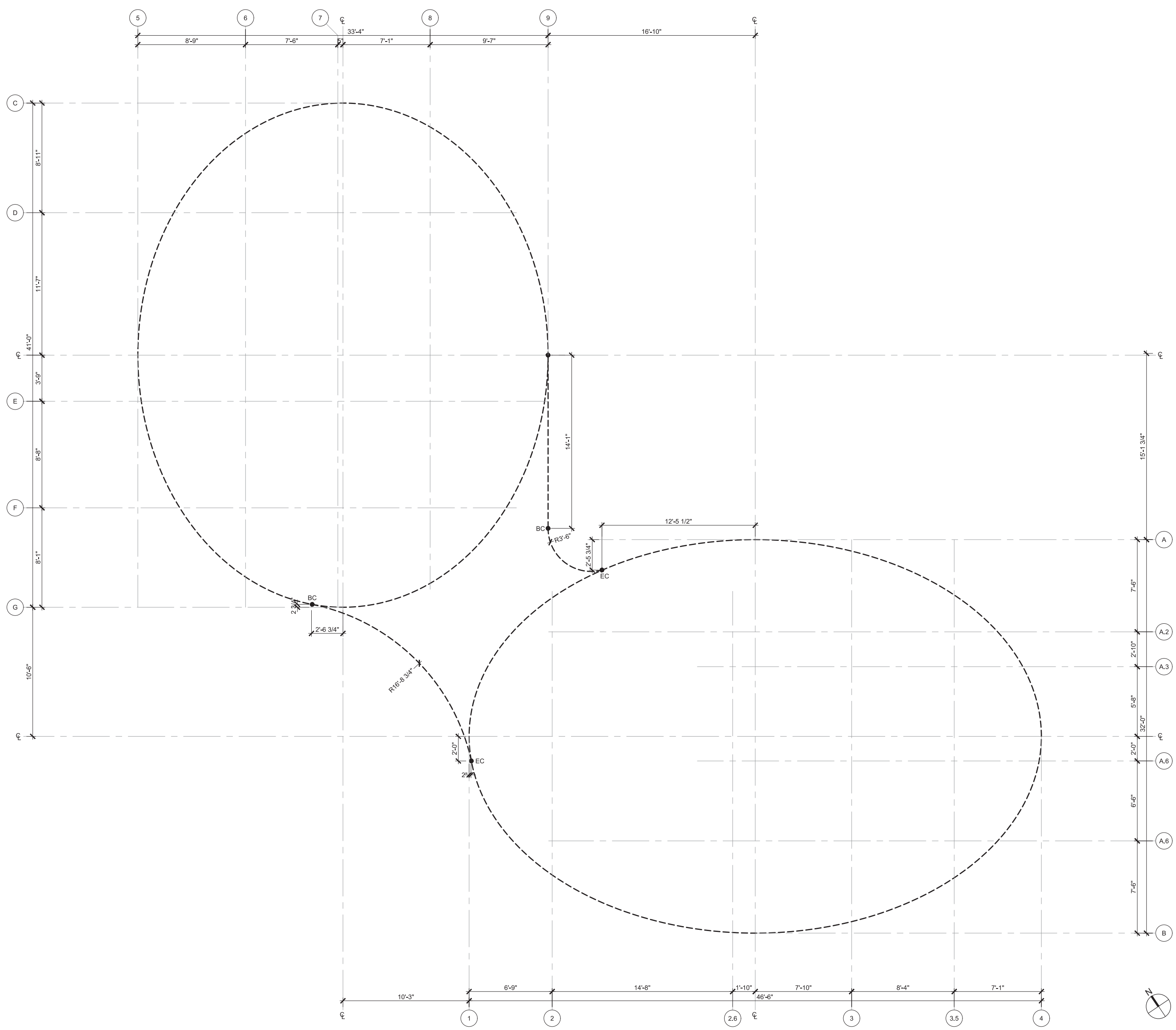

1 EAST BUILDING GEOMETRY PLAN
Scale: 1/4"=1'-0"

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SHEET TITLE: EAST BUILDING GEOMETRY PLAN

PROJECT: SIXTH STREET PARK, ARTS AND RIVER CONNECTIVITY IMPROVEMENTS (PARC)

ADDRESS: SIXTH STREET OVER THE LOS ANGELES RIVER

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DESIGN GROUP — DATE: 7/11/2022
ARCHITECT: MICHAEL MALTZAN — LIC. NO. C-23729
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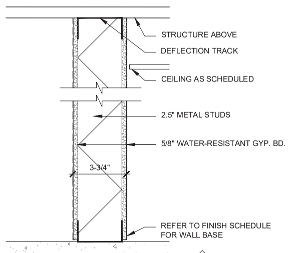

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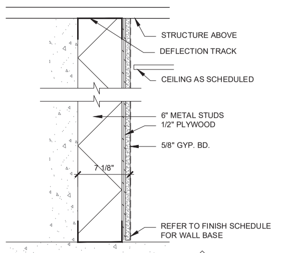

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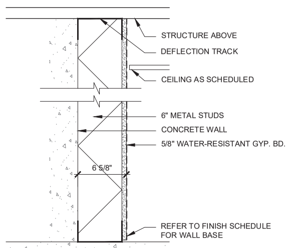

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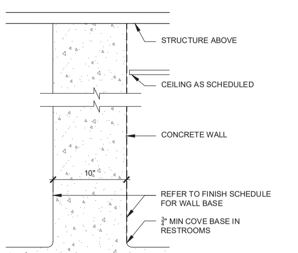
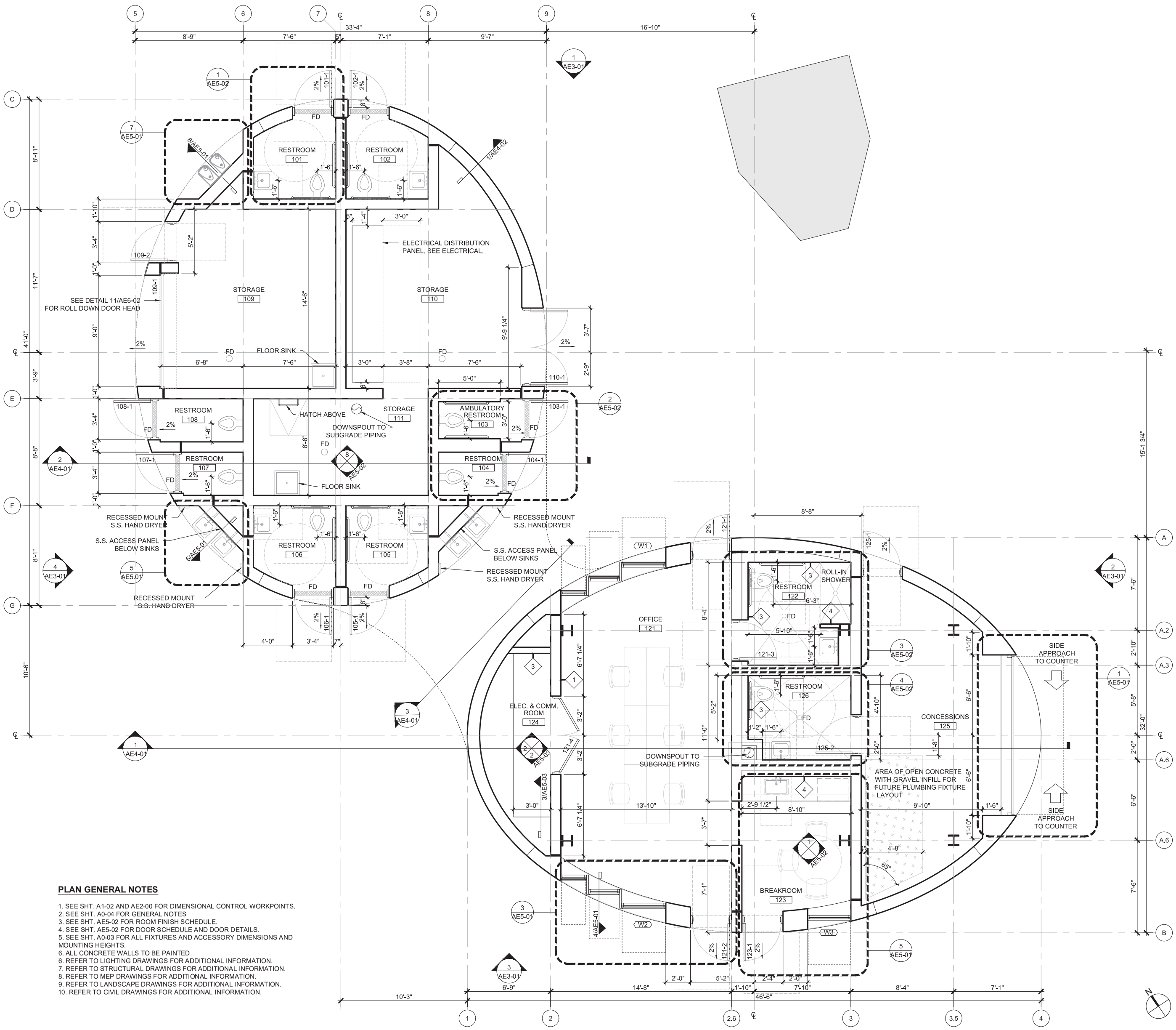


2 PARTITION TYPE 1

Scale: 1-1/2"=1'-0"



PLAN GENERAL NOTES

1. SEE SHT. A1-02 AND AE2-00 FOR DIMENSIONAL CONTROL WORKPOINTS.
2. SEE SHT. A0-04 FOR GENERAL NOTES
3. SEE SHT. AE5-02 FOR ROOM FINISH SCHEDULE.
4. SEE SHT. AE5-02 FOR DOOR SCHEDULE AND DOOR DETAILS.
5. SEE SHT. A0-03 FOR ALL FIXTURES AND ACCESSORY DIMENSIONS AND MOUNTING HEIGHTS.
6. ALL CONCRETE WALLS TO BE PAINTED.
6. REFER TO LIGHTING DRAWINGS FOR ADDITIONAL INFORMATION.
7. REFER TO STRUCTURAL DRAWINGS FOR ADDITIONAL INFORMATION.
8. REFER TO MEP DRAWINGS FOR ADDITIONAL INFORMATION.
9. REFER TO LANDSCAPE DRAWINGS FOR ADDITIONAL INFORMATION.
10. REFER TO CIVIL DRAWINGS FOR ADDITIONAL INFORMATION.

1 EAST BUILDING FLOOR PLAN

Scale: 1/4"=1'-0"

PLANS PREPARED BY:
TETRA TECH, INC.
350 SOUTH GRAND AVENUE, SUITE 3310
LOS ANGELES, CALIFORNIA 90071
Phone: (213) 279-3283

MICHAEL MALTZAN ARCHITECTURE
2801 HYPERION AVENUE, STUDIO 107 | LOS ANGELES, CA 90027 | (323) 913 3098

CITY OF LOS ANGELES — DEPARTMENT OF PUBLIC WORKS — BUREAU OF ENGINEERING

VERT. CONTROL: LA CITY BM 12-04070 (1985 ADJ), NGVD 1929
HORIZ. CONTROL: NAD 83 (ZONE 5) COORDINATES

SHEET TITLE: EAST BUILDING PLAN

PROJECT: SIXTH STREET PARK, ARTS AND RIVER CONNECTIVITY IMPROVEMENTS (PARC)

ADDRESS: SIXTH STREET OVER THE LOS ANGELES RIVER

GARY LEE MOORE, P.E., ENV SP — CITY ENGINEER — DATE:

DESIGN GROUP

ARCHITECT: MICHAEL MALTZAN — LIC. NO. C-23729 — 7/11/2022

DESIGNED BY:

DRAWN BY:

CHECKED BY:

APPROVED BY:

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NO. | REVISIONS: | DATE: | BY:

INDEX NO.

BUILDING NO.

WORK ORDER NO. E700235D

FILE NO. –

DRAWING NO. AE2-01

SHEET 211 OF 295 SHEETS

REVISION DATES (DESIGN STAGE ONLY)

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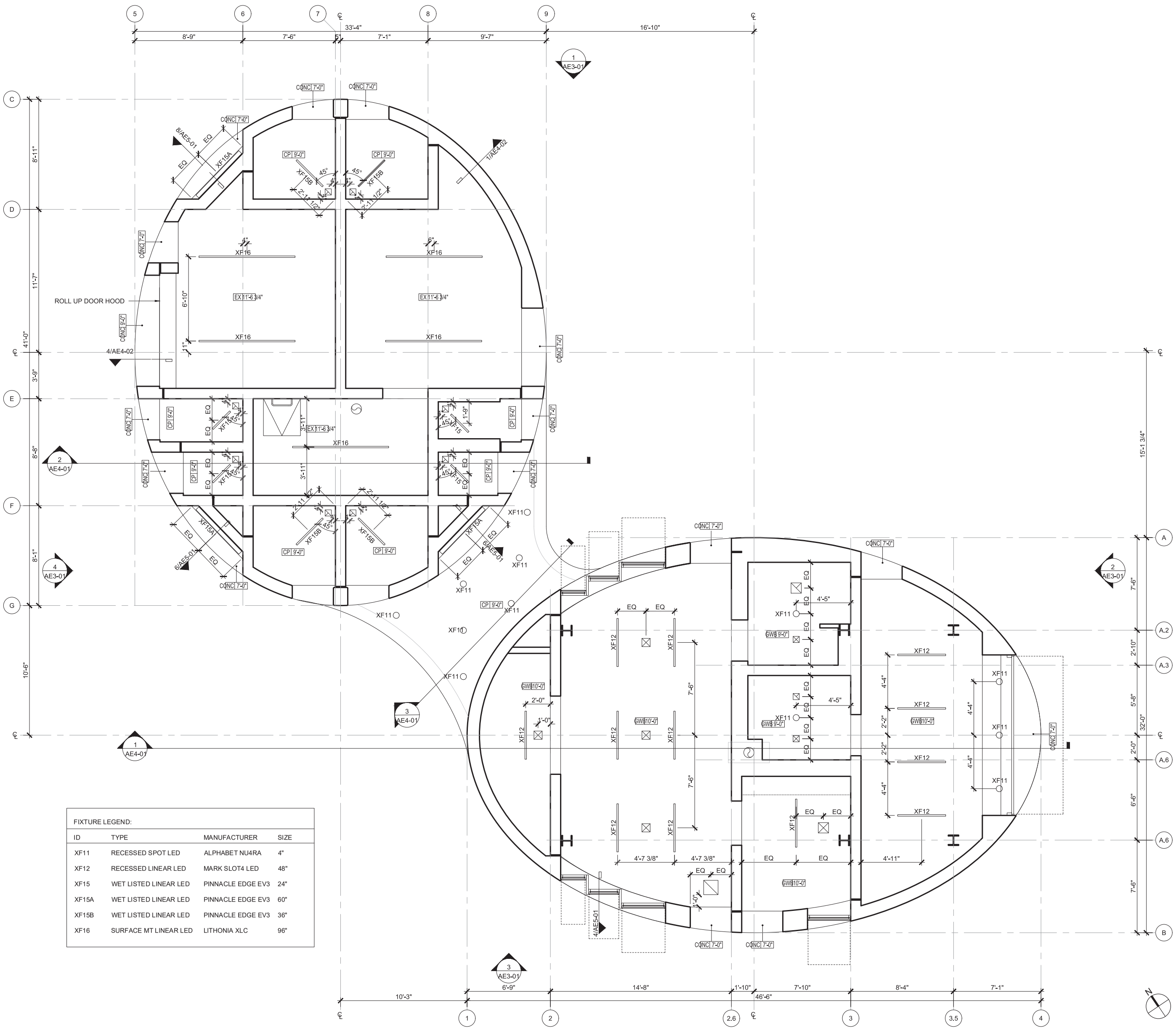

FIXTURE LEGEND:

ID	TYPE	MANUFACTURER	SIZE
XF11	RECESSED SPOT LED	ALPHABET NU4RA	4"
XF12	RECESSED LINEAR LED	MARK SLOT4 LED	48"
XF15	WET LISTED LINEAR LED	PINNACLE EDGE EV3	24"
XF15A	WET LISTED LINEAR LED	PINNACLE EDGE EV3	60"
XF15B	WET LISTED LINEAR LED	PINNACLE EDGE EV3	36"
XF16	SURFACE MT LINEAR LED	LITHONIA XLC	96"

1 EAST BUILDING REFLECTED CEILING PLAN

Scale: 1/4"=1'-0"

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LOS ANGELES, CALIFORNIA 90071
Phone: (213) 279-3283

MICHAEL MALTZAN ARCHITECTURE
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VERT. CONTROL: LA CITY BM 12-04070 (1985 ADJ), NGVD 1929
HORIZ. CONTROL: NAD 83 (ZONE 5) COORDINATES

SHEET TITLE: EAST BUILDING ROOF PLAN

PROJECT: SIXTH STREET PARK, ARTS AND RIVER CONNECTIVITY IMPROVEMENTS (PARC)

ADDRESS: SIXTH STREET OVER THE LOS ANGELES RIVER

GARY LEE MOORE, P.E., ENV SP — CITY ENGINEER

DESIGN GROUP

ARCHITECT: MICHAEL MALTZAN — LIC. NO. C-23729 — 7/11/2022

DESIGNED BY:
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FILE NO. --

DRAWING NO. AE2-02

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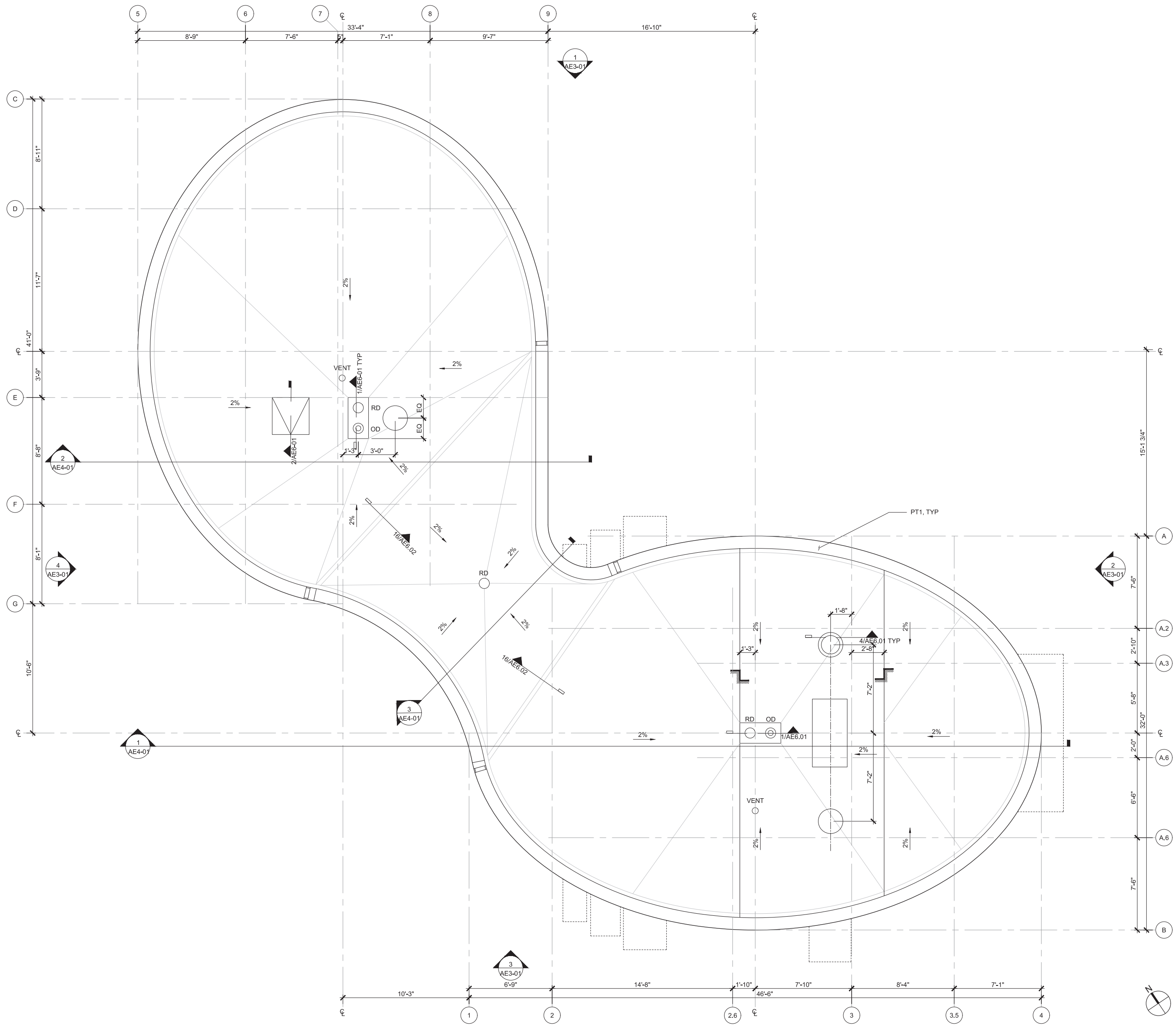

1 EAST BUILDING ROOF PLAN

Scale: 1/4"=1'-0"

PLANS PREPARED BY:

TETRA TECH, INC.
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LOS ANGELES, CALIFORNIA 90071
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VERT. CONTROL: LA CITY BM 12-04070 (1985 ADJ), NGVD 1929
HORIZ. CONTROL: NAD 83 (ZONE 5) COORDINATES

SHEET TITLE: EAST BUILDING ROOF PLAN

PROJECT: SIXTH STREET PARK, ARTS AND RIVER CONNECTIVITY IMPROVEMENTS (PARC)

ADDRESS: SIXTH STREET OVER THE LOS ANGELES RIVER

GARY LEE MOORE, P.E., ENV SP — CITY ENGINEER

DESIGN GROUP

ARCHITECT: MICHAEL MALTZAN — LIC. NO. C-23729 — DATE: 7/11/2022

DESIGNED BY:

DRAWN BY:

CHECKED BY:

APPROVED BY:

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BUILDING NO.

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ENGINEERING — CITY OF LOS ANGELES

WORK ORDER NO. E700235D

FILE NO. --

DRAWING NO. AE2-03

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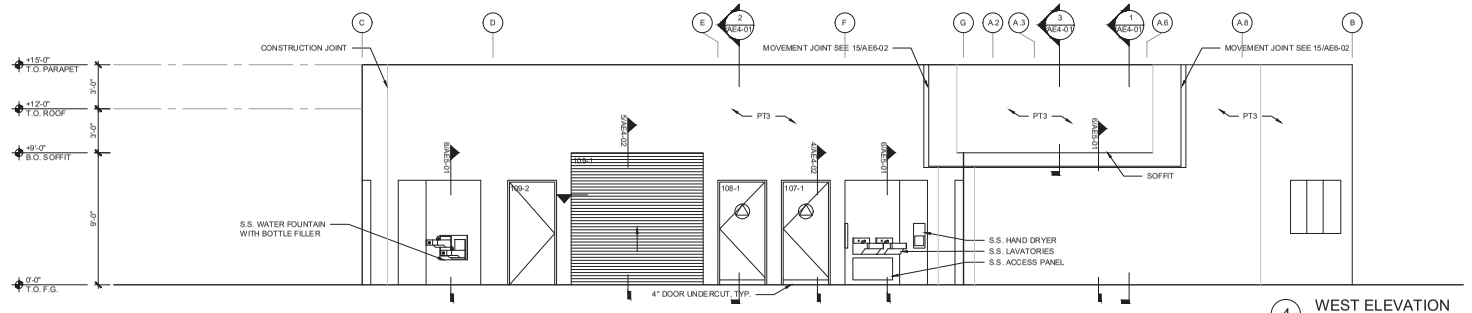

4 WEST ELEVATION
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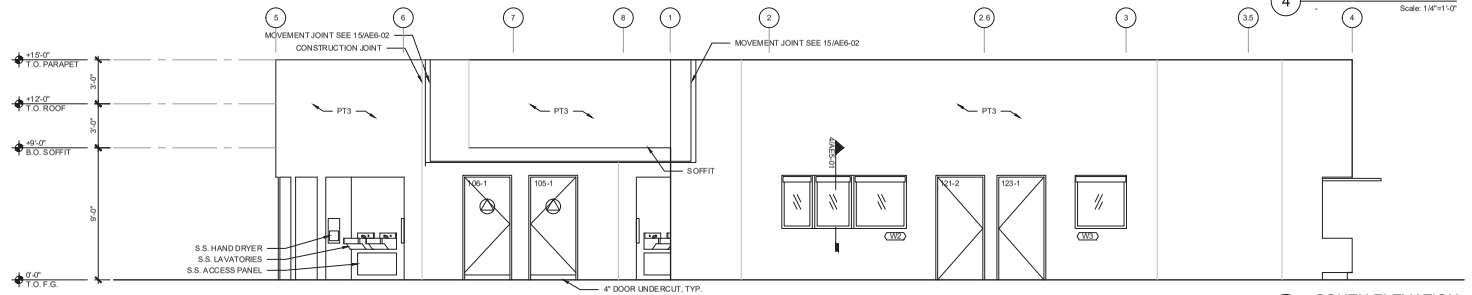

3 SOUTH ELEVATION
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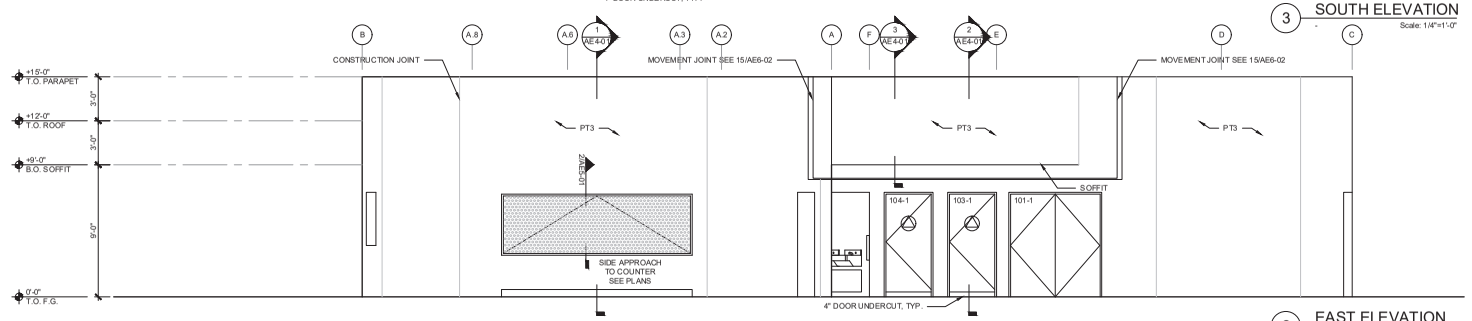

2 EAST ELEVATION
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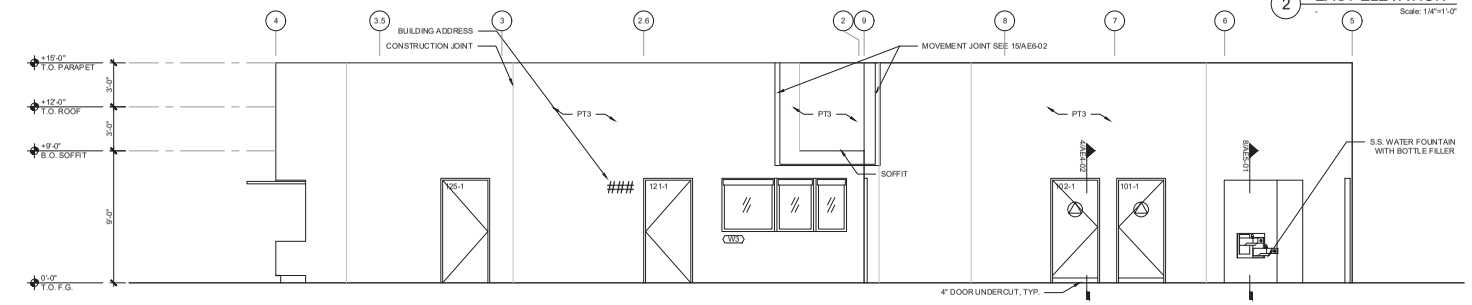

1 NORTH ELEVATION
Scale: 1/4"=1'-0"

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LOS ANGELES, CALIFORNIA 90071
Phone: (213) 279-3283

MICHAEL MALTZAN ARCHITECTURE
2801 HYPERION AVENUE, STUDIO 107 | LOS ANGELES, CA 90027 | (323) 913-3098

CITY OF LOS ANGELES DEPARTMENT OF PUBLIC WORKS BUREAU OF ENGINEERING

GARY LEE MOORE, P.E., ENV SP CITY ENGINEER
DESIGN GROUP
ARCHITECT: MICHAEL MALTZAN LIC NO. C-23729 DATE: 7/11/2022
DESIGNED BY:
DRAWN BY:
CHECKED BY:
APPROVED BY:

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NO. REVISIONS DATE BY:

BUILDING NO.

INDEX NO.

ENGINEERING CITY OF LOS ANGELES

SHEET TITLE: EAST BUILDING ELEVATIONS

PROJECT: SIXTH STREET PARK, ARTS AND RIVER CONNECTIVITY IMPROVEMENTS (PARC)

ADDRESS: SIXTH STREET OVER THE LOS ANGELES RIVER

WORK ORDER NO. E700235D
FILE NO. --
DRAWING NO. AE3-01
SHEET 214 OF 295 SHEETS

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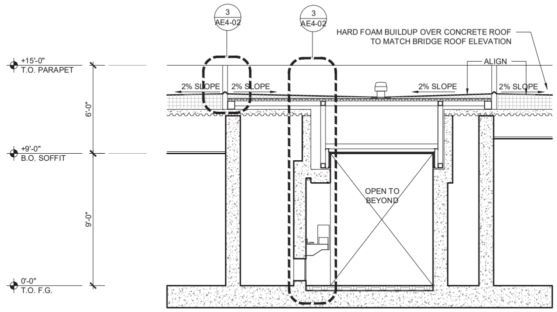

4 LONGITUDINAL SECTION THROUGH BRIDGE
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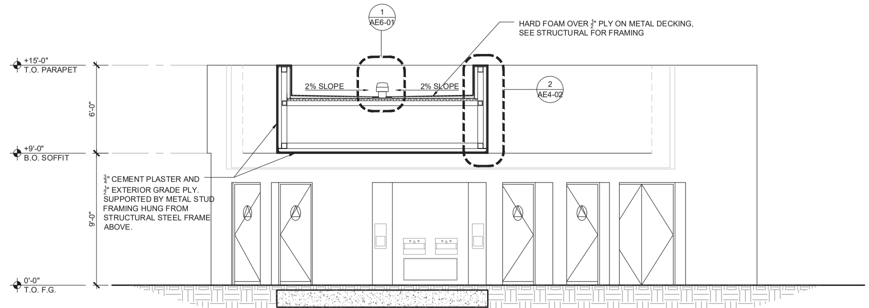

3 TRANSVERSE SECTION THROUGH BRIDGE
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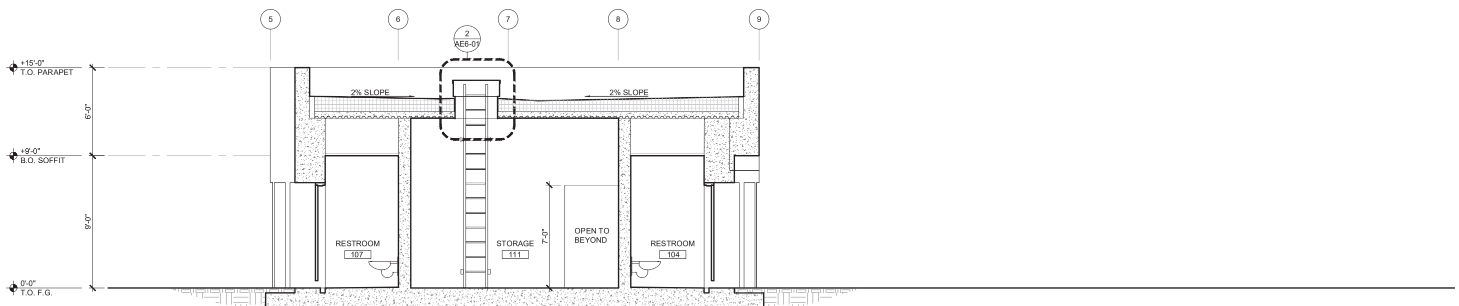

2 TRANSVERSE SECTION THROUGH RESTROOM
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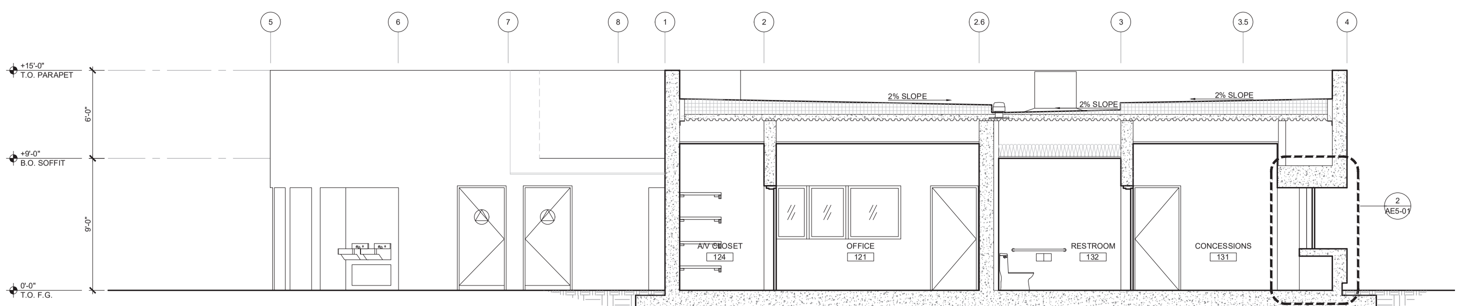

1 LONG SECTION THROUGH OFFICE
Scale: 1/4"=1'-0"

PLANS PREPARED BY:

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LOS ANGELES, CALIFORNIA 90071
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CITY OF LOS ANGELES — DEPARTMENT OF PUBLIC WORKS — BUREAU OF ENGINEERING

VERT. CONTROL: LA CITY BM 12-04070 (1985 ADJ), NGVD 1929
HORIZ. CONTROL: NAD 83 (ZONE 5) COORDINATES

SHEET TITLE: EAST BUILDING SECTIONS
PROJECT: SIXTH STREET PARK, ARTS AND RIVER CONNECTIVITY IMPROVEMENTS (PARC)
ADDRESS: SIXTH STREET OVER THE LOS ANGELES RIVER

GARY LEE MOORE, P.E., ENV SP — CITY ENGINEER
DESIGN GROUP
ARCHITECT: MICHAEL MALTZAN LIC. NO. C-23729 DATE: 7/11/2022
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INDEX NO.
BUILDING NO.

ENGINEERING — CITY OF LOS ANGELES

WORK ORDER NO. E700235D
FILE NO. --
DRAWING NO. **AE4-01**
SHEET 215 OF 295 SHEETS

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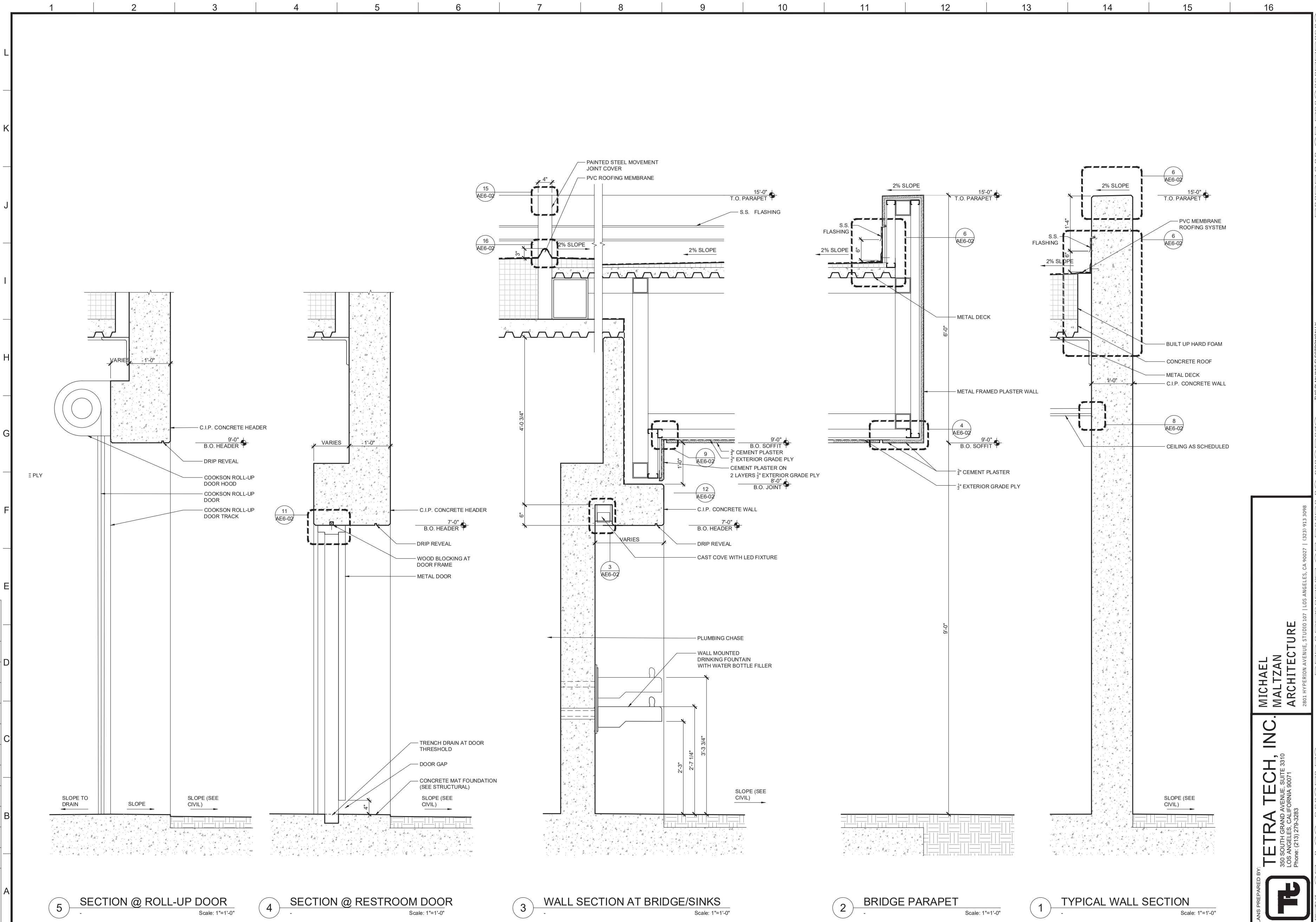

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LOS ANGELES, CALIFORNIA 90071
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CITY OF LOS ANGELES — DEPARTMENT OF PUBLIC WORKS — BUREAU OF ENGINEERING

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DESIGN GROUP
ARCHITECT: MICHAEL MALTZAN — LIC. NO. C-23729 — DATE: 7/11/2022
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BUILDING NO.

INDEX NO.

VERT. CONTROL: LA CITY BM 12-04070 (1985 ADJ), NGVD 1929
HORIZ. CONTROL: NAD 83 (ZONE 5) COORDINATES

SHEET TITLE: EAST BUILDING WALL SECTIONS
PROJECT: SIXTH STREET PARK, ARTS AND RIVER CONNECTIVITY IMPROVEMENTS (PARC)
ADDRESS: SIXTH STREET OVER THE LOS ANGELES RIVER

WORK ORDER NO. E700235D
FILE NO. --
DRAWING NO. **AE4-02**
SHEET 216 OF 295 SHEETS

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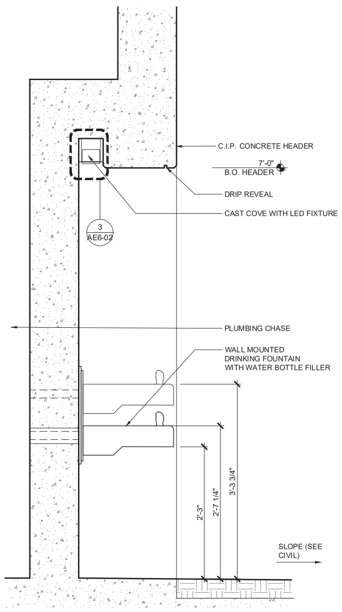
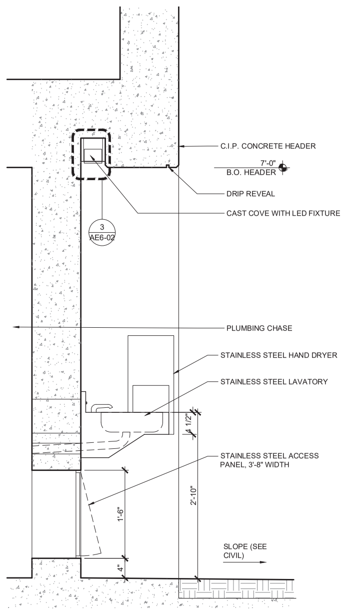


8 DRINKING FOUNTAIN SECTION
4
Scale: 1"=1'-0"



6 OUTDOOR SINK SECTION
-
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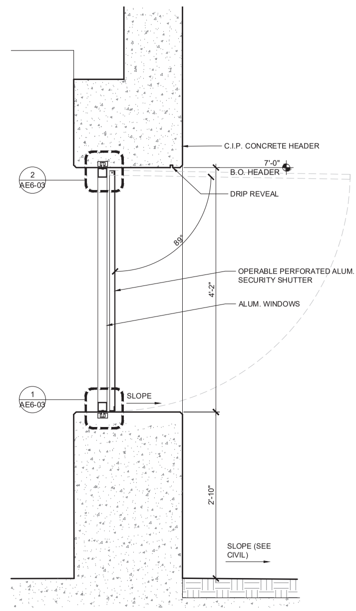

4 OFFICE WINDOW SECTION
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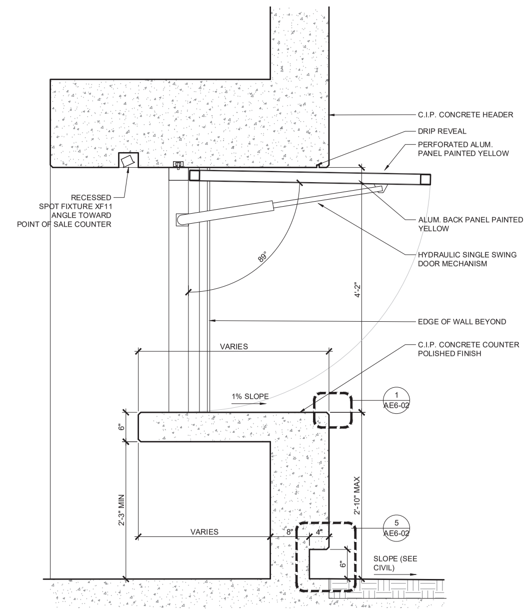
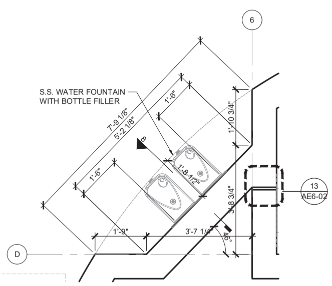


2 COUNTER SECTION
-
Scale: 1"=1'-0"



7 DRINKING FOUNTAIN RECESS
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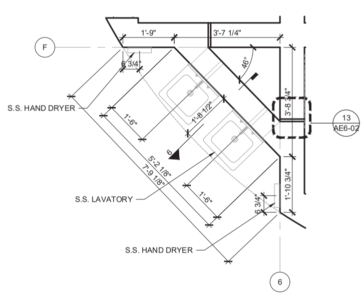
Scale: 1/2"=1'-0"



5 OUTDOOR SINK RECESS
-
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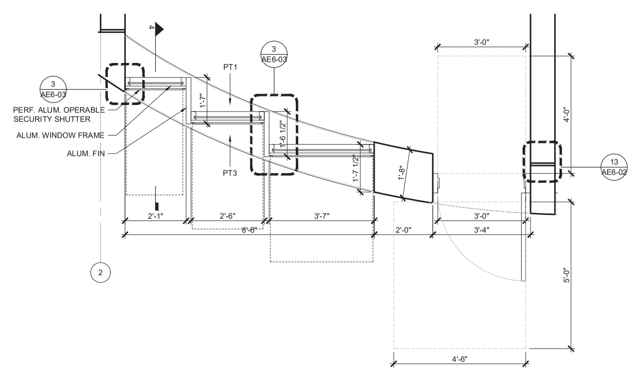
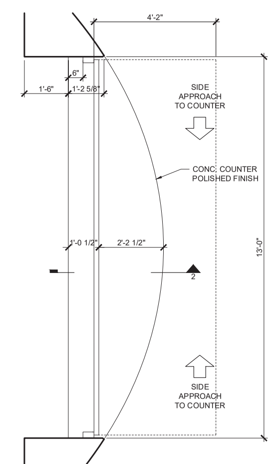


3 OFFICE WINDOW PLAN
-
Scale: 1/2"=1'-0"



1 COUNTER PLAN
-
Scale: 1/2"=1'-0"

PLANS PREPARED BY:

TETRA TECH, INC.
350 SOUTH GRAND AVENUE, SUITE 3310
LOS ANGELES, CALIFORNIA 90071
Phone: (213) 279-3283

MICHAEL
MALTZAN
ARCHITECTURE
2801 HYPERION AVENUE, STUDIO 107 | LOS ANGELES, CA 90027 | (323) 913 3098

CITY OF LOS ANGELES DEPARTMENT OF PUBLIC WORKS BUREAU OF ENGINEERING

ENGINEERING
CITY OF LOS ANGELES

NO.	REVISIONS:	DATE:	BY:

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GARY LEE MOORE, P.E., ENV SP — CITY ENGINEER
DESIGN GROUP — DATE:
ARCHITECT: MICHAEL MALTZAN — LIC. NO. C-23729 — 7/11/2022
DESIGNED BY:
DRAWN BY:
CHECKED BY:
APPROVED BY:

VERT. CONTROL: LA CITY BM 12-04070 (1985 ADJ), NGVD 1929
HORIZ. CONTROL: NAD 83 (ZONE 5) COORDINATES
SHEET TITLE: EAST BUILDING ENLARGEMENTS
PROJECT: SIXTH STREET PARK, ARTS AND RIVER CONNECTIVITY IMPROVEMENTS (PARC)
ADDRESS: SIXTH STREET OVER THE LOS ANGELES RIVER

WORK ORDER NO. E700235D
FILE NO. --
DRAWING NO.
AE5-01
SHEET 217 OF 295 SHEETS

REVISION DATES (DESIGN STAGE ONLY)

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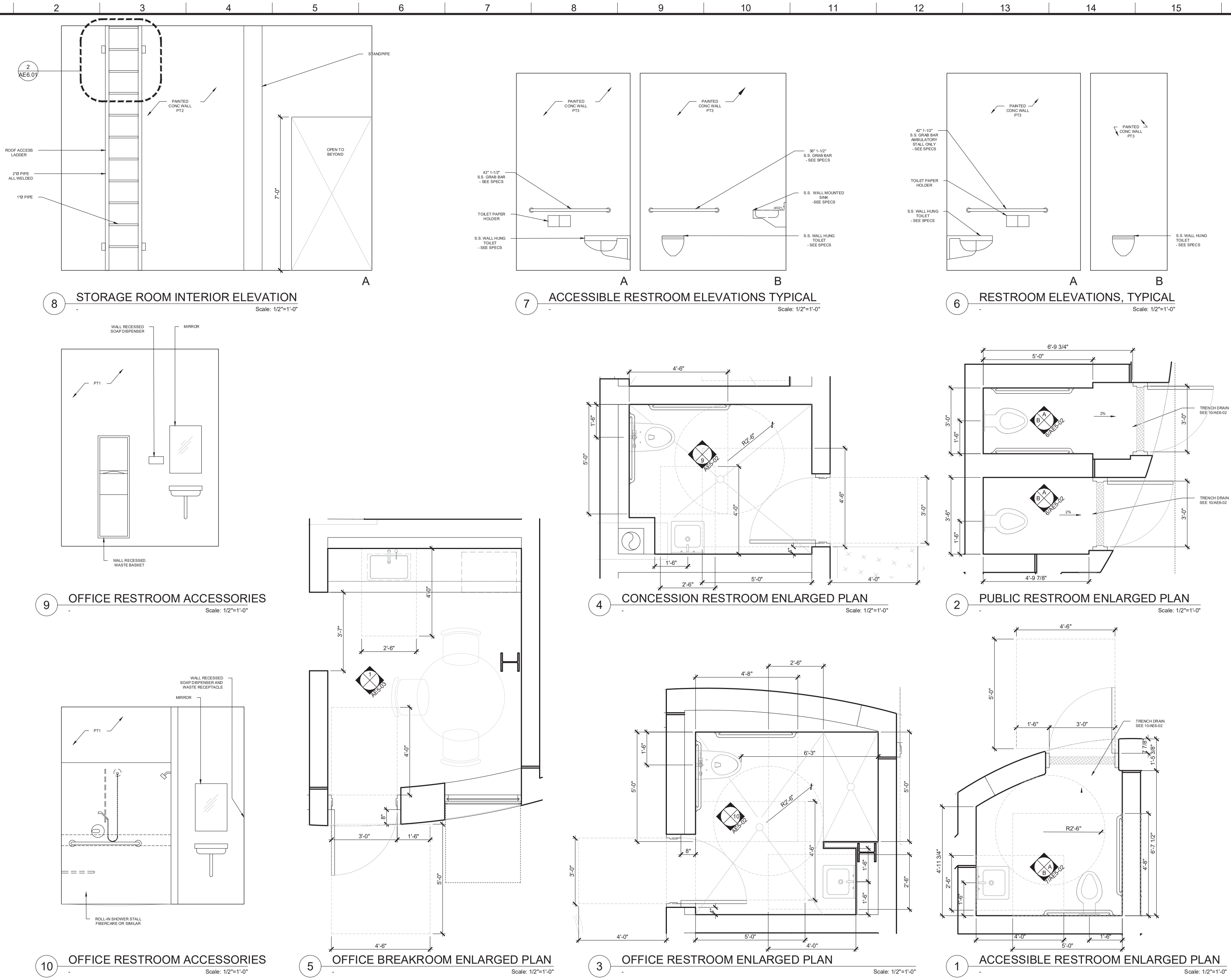

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GARY LEE MOORE, P.E., ENV SP — CITY ENGINEER
DESIGN GROUP — DATE:
ARCHITECT: MICHAEL MALTZAN — LIC. NO. C-23729 — 7/11/2022
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BUILDING NO.

ENGINEERING — CITY OF LOS ANGELES

WORK ORDER NO. E700235D
FILE NO. --
DRAWING NO. AE5-02
SHEET 218 OF 295 SHEETS

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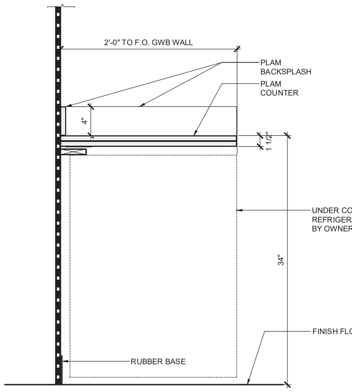

7 BREAK ROOM REFRIDGERATOR DETAIL

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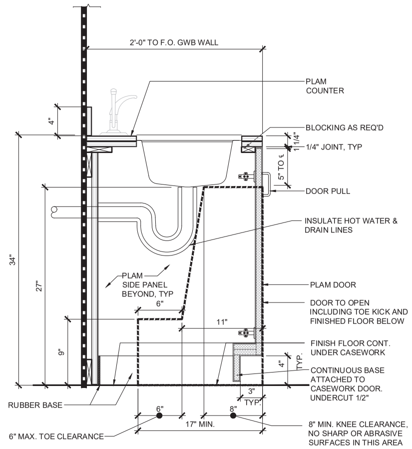

6 BREAK ROOM ACCESSIBLE KITCHEN SINK DETAIL

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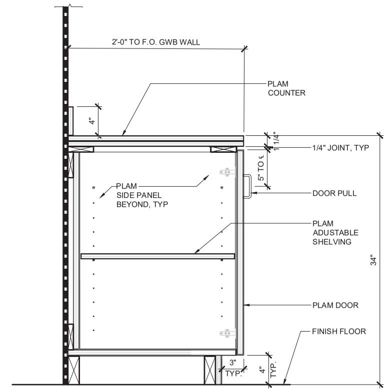
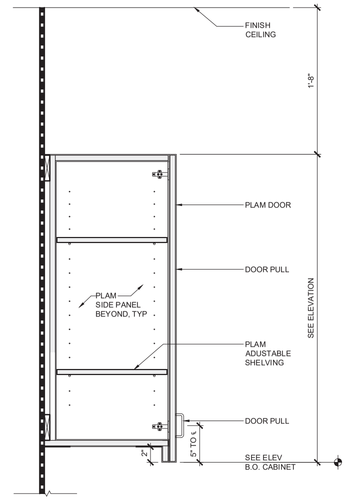


5 BREAK ROOM KITCHEN CABINET BASE DETAIL

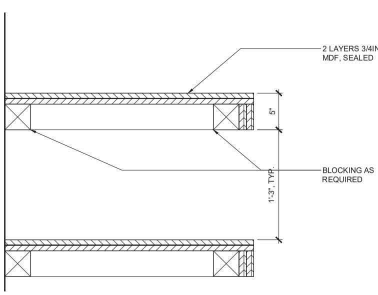
Scale: 1-1/2"=1'-0"



4 BREAK ROOM KITCHEN UPPER CABINET DETAIL

Scale: 1-1/2"=1'-0"

GENERAL NOTES:
1. ALL P-LAM FINISHES TO BE WILSONART D354 DESIGNER WHITE OR SIMILAR.



3 AV CLOSET SHELVING DETAIL

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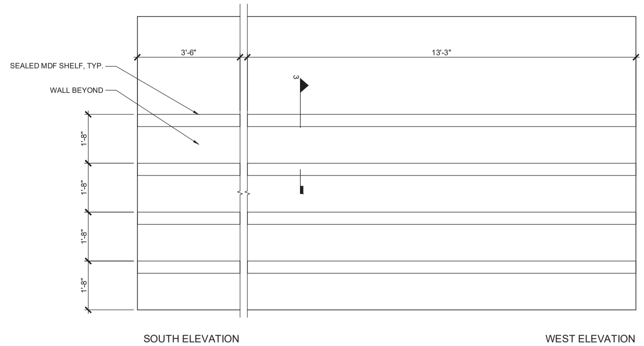

2 AV CLOSET SHELVING ELEVATION

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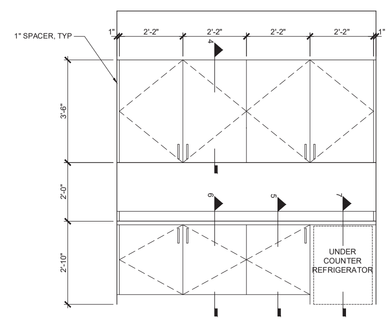

1 BREAK ROOM KITCHEN ELEVATION

Scale: 1/2"=1'-0"

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LOS ANGELES, CALIFORNIA 90071
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MICHAEL MALTZAN ARCHITECTURE
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CITY OF LOS ANGELES DEPARTMENT OF PUBLIC WORKS BUREAU OF ENGINEERING

GARY LEE MOORE, P.E., ENV SP — CITY ENGINEER
DESIGN GROUP — DATE:
ARCHITECT: MICHAEL MALTZAN — LIC. NO. C-23729 — 7/11/2022
DESIGNED BY:
DRAWN BY:
CHECKED BY:
APPROVED BY:

• THIS PLAN WAS ELECTRONICALLY SIGNED AND STAMPED •

NO. REVISIONS: DATE: BY:

INDEX NO.

BUILDING NO.

ENGINEERING — CITY OF LOS ANGELES

VERT. CONTROL: LA CITY BM 12-04070 (1985 ADJ), NGVD 1929
HORIZ. CONTROL: NAD 83 (ZONE 5) COORDINATES
SHEET TITLE: WEST BUILDING DETAILS
PROJECT: SIXTH STREET PARK, ARTS AND RIVER CONNECTIVITY IMPROVEMENTS (PARC)
ADDRESS: SIXTH STREET OVER THE LOS ANGELES RIVER

WORK ORDER NO. E700235D
FILE NO. --
DRAWING NO. AE5-03
SHEET 219 OF 295 SHEETS

REVISION DATES (DESIGN STAGE ONLY)

Sheet Version 3.0

BID SET - NOT FOR CONSTRUCTION

LEGEND

CC1	CONCRETE FLOOR, CLEAR SEALED
EX	EXPOSED CONSTRUCTION
GYP	GYPSUM BOARD
N/A	NOT APPLICABLE
PT1	PAINT, INTERIOR NON-ABSORBANT, DUNN EDWARDS DEW380 "WARM WHITE"
PT2	PAINT, EXTERIOR FINISH, MATCH PANTONE 107C OR DUNN EDWARDS DE5404 "HIGHLIGHTER"
PT3	PAINT, EXTERIOR GRAFFITI-RESISTANT FINISH, MATCH PANTONE 107C OR DUNN EDWARDS DE5404 "HIGHLIGHTER"
RB	RUBBER BASE
CT	CERAMIC TILE
CB	COVE BASE

FINISH SCHEDULE

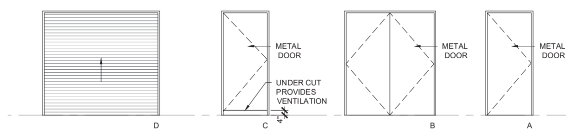
LOCATION		FLOOR		WALLS								CEILING			NOTES
				NORTH (A)		EAST (B)		SOUTH (C)		WEST (D)					
ROOM#	ROOM NAME	FINISH	BASE	MATERIAL	FINISH	MATERIAL	FINISH	MATERIAL	FINISH	MATERIAL	FINISH	MATERIAL	FINISH	HEIGHT	
EAST BUILDING															
121	OFFICE	CC1	RB	EX	PT1	EX	PT1	EX	PT1	EX	PT1	GWB	PT1	10'-0"	
122	STAFF RESTROOM	CC1	RB	GWB	PT1	GWB	PT1	EX	PT1	GWB	PT1	GWB	PT1	9'-0"	
123	BREAKROOM	CC1	RB	GWB	PT1	EX	PT1	EX	PT1	EX	PT1	GWB	PT1	10'-0"	
124	ELEC. & COMM. ROOM	CC1	N/A	GWB	PT1	EX	PT1	EX	PT1	EX	PT1	GWB	PT1	10'-0"	
125	CONCESSIONS	CC1	CT	EX	PT2	EX	PT2	EX	PT2	EX	PT2	GWB	PT2	10'-0"	
126	RESTROOM	CC1	RB	EX	PT1	EX	PT1	EX	PT1	GWB	PT1	GWB	PT1	9'-0"	
101-108	PUBLIC RESTROOMS	CC1	CB	EX	PT3	EX	PT3	EX	PT3	EX	PT3	GWB	PT3	10'-0"	
109	STORAGE	CC1	CB	EX	PT2	EX	PT2	EX	PT2	EX	PT2	EX	N/A	10'-0"	
110	STORAGE	CC1	CB	EX	PT2	EX	PT2	EX	PT2	EX	PT2	EX	N/A	10'-0"	
111	STORAGE	CC1	CB	EX	PT2	EX	PT2	EX	PT2	EX	PT2	EX	N/A	10'-0"	

* NO BASE ON CONCRETE WALLS, GLAZING WALLS UNLESS OTHERWISE NOTED

4 FINISH SCHEDULE
N.T.S.

HARDWARE SETS

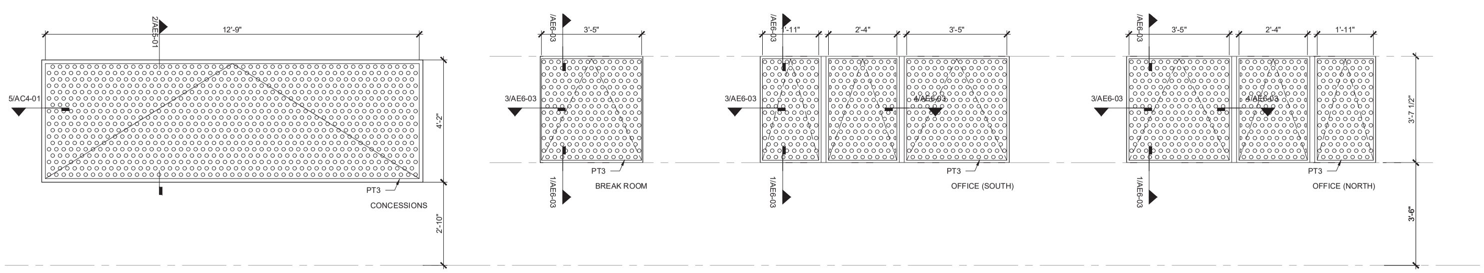
SET	DESCRIPTION
1	A/G EXT
2	HM EXT
3	HM INT PRIVACY
4	HM EXT PRIVACY
5	HM STOREROOM
6	HM EXT PR STOREROOM OUTSWING
7	HM INT PR STOREROOM



DOOR SCHEDULE

DOOR							FRAME		DETAILS			HDWR GROUP	ROOM NAME	NOTES
#	TYPE	WIDTH	HEIGHT	THICKNESS	MATERIAL	FINISH	MATERIAL	FINISH	JAMB	HEAD	THRESHOLD			
101-1	C	3'-0"	6'-8"	1.75"	METAL	PT3	METAL	PT3		11/AE6-02	10/AE6-02	4	PUBLIC RESTROOM	4" UNDERCUT
102-1	C	3'-0"	6'-8"	1.75"	METAL	PT3	METAL	PT3		11/AE6-02	10/AE6-02	4	PUBLIC RESTROOM	4" UNDERCUT
103-1	C	3'-0"	6'-8"	1.75"	METAL	PT3	METAL	PT3		11/AE6-02	10/AE6-02	4	PUBLIC RESTROOM	4" UNDERCUT
104-1	C	3'-0"	6'-8"	1.75"	METAL	PT3	METAL	PT3		11/AE6-02	10/AE6-02	4	PUBLIC RESTROOM	4" UNDERCUT
105-1	C	3'-0"	6'-8"	1.75"	METAL	PT3	METAL	PT3		11/AE6-02	10/AE6-02	4	PUBLIC RESTROOM	4" UNDERCUT
106-1	C	3'-0"	6'-8"	1.75"	METAL	PT3	METAL	PT3		11/AE6-02	10/AE6-02	4	PUBLIC RESTROOM	4" UNDERCUT
107-1	C	3'-0"	6'-8"	1.75"	METAL	PT3	METAL	PT3		11/AE6-02	10/AE6-02	4	PUBLIC RESTROOM	4" UNDERCUT
108-1	C	3'-0"	6'-8"	1.75"	METAL	PT3	METAL	PT3		11/AE6-02	10/AE6-02	4	PUBLIC RESTROOM	4" UNDERCUT
109-1	D	9'-0"	9'-0"		METAL	PT3	METAL	PT3		5/AE4-02	5/AE4-02	BY MFR	STORAGE 109	
109-2	A	3'-0"	7'-0"	1.75"	METAL	PT3	METAL	PT3		11/AE6-02		2	STORAGE 109	
110-1	B	6'-4"	7'-0"	1.75"	METAL	PT3	METAL	PT3		11/AE6-02		6	STORAGE 110	
121-1	A	3'-0"	7'-0"	1.75"	METAL	PT3/PT1	METAL	PT3/PT1		11/AE6-02		2	OFFICE	
121-2	A	3'-0"	7'-0"	1.75"	METAL	PT3/PT1	METAL	PT3/PT1		11/AE6-02		2	OFFICE	
121-3	A	3'-0"	7'-0"	1.75"	METAL	PT1	METAL	PT1				3	OFFICE	RESTROOM
121-4	B	6'-0"	7'-0"	1.75"	METAL	PT1	METAL	PT1				7	ELEC & COMM ROOM	
123-1	A	3'-0"	7'-0"	1.75"	METAL	PT3/PT1	METAL	PT3/PT1		11/AE6-02		2	BREAKROOM	
125-1	A	3'-0"	7'-0"	1.75"	METAL	P	METAL	PT3		11/AE6-02		2	CONCESSIONS	
125-2	A	3'-0"	7'-0"	1.75"	METAL	PT3/PT1	METAL	PT3/PT1				3	CONCESSIONS	RESTROOM

3 DOOR SCHEDULE
N.T.S.

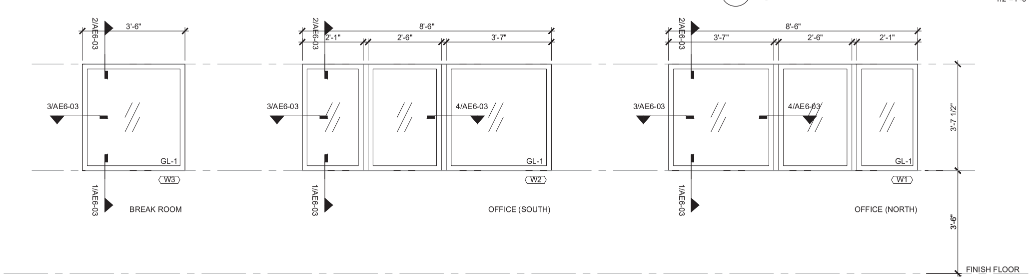


2 SECURITY SHUTTER ELEVATIONS
1/2"=1'-0"

1. ALL WINDOWS ARE DRAWN. ONE SHADE PER WINDOW, TYP. NO WINDOW AT CONCESSIONS

2. ALL WINDOWS ARE FIXED

GLAZING TYPE	GLAZING DESCRIPTION	NOTES
GL-1	CLEAR 1" THICK IGU, FIXED (WESTERN WINDOWS 700 SERIES OR SIMILAR)	EAST BUILDING OFFICE WINDOWS SEE AE- SERIES
GL-2	CLEAR 1/2" THICK LAMINATED 2 LAYERS, TOP/BOTTOM/ENDS SET INTO ALUMINUM CHANNEL	CAFÉ WINDOWS SEE AC- SERIES



1 GLAZING ELEVATIONS
1/2"=1'-0"

PLANS PREPARED BY:
TETRA TECH, INC.
350 SOUTH GRAND AVENUE, SUITE 3310
LOS ANGELES, CALIFORNIA 90071
Phone: (213) 279-3283

MICHAEL MALTZAN ARCHITECTURE
2801 HYPERION AVENUE, STUDIO 107 | LOS ANGELES, CA 90027 | (323) 913 3098

CITY OF LOS ANGELES — DEPARTMENT OF PUBLIC WORKS — BUREAU OF ENGINEERING

VERT. CONTROL: LA CITY BM 12-04070 (1985 ADJ), NGVD 1929
HORIZ. CONTROL: NAD 83 (ZONE 5) COORDINATES

SHEET TITLE: WEST BUILDING SCHEDULES
PROJECT: SIXTH STREET PARK, ARTS AND RIVER CONNECTIVITY IMPROVEMENTS (PARC)
ADDRESS: SIXTH STREET OVER THE LOS ANGELES RIVER

GARY LEE MOORE, P.E., ENV SP — CITY ENGINEER
DESIGN GROUP
ARCHITECT: MICHAEL MALTZAN — LIC. NO. C-23729 — DATE: 7/11/2022
DESIGNED BY:
DRAWN BY:
CHECKED BY:
APPROVED BY:

THIS PLAN WAS ELECTRONICALLY SIGNED AND STAMPED.

NO. | REVISIONS: | DATE: | BY:
INDEX NO.
BUILDING NO.

WORK ORDER NO. E700235D
FILE NO. --
DRAWING NO. AE5-04
SHEET 220 OF 295 SHEETS

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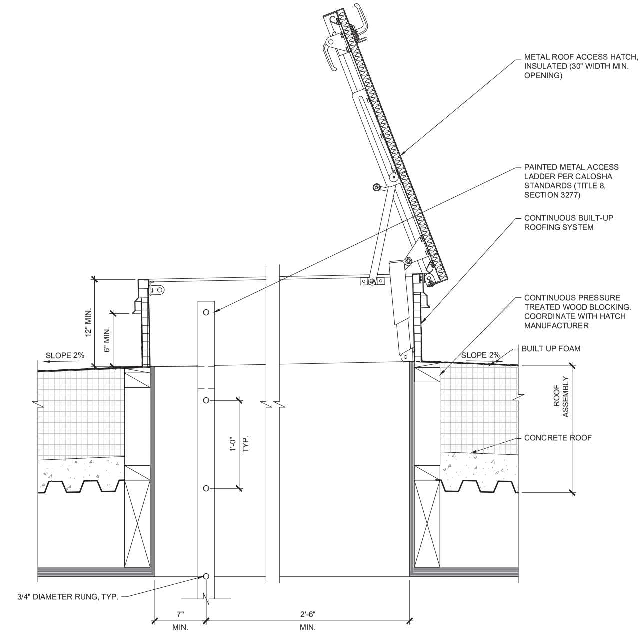
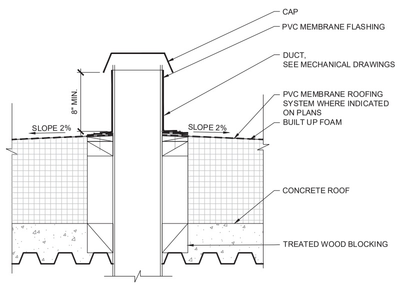
REVISION DATES (DESIGN STAGE ONLY)

Sheet Version 3.0



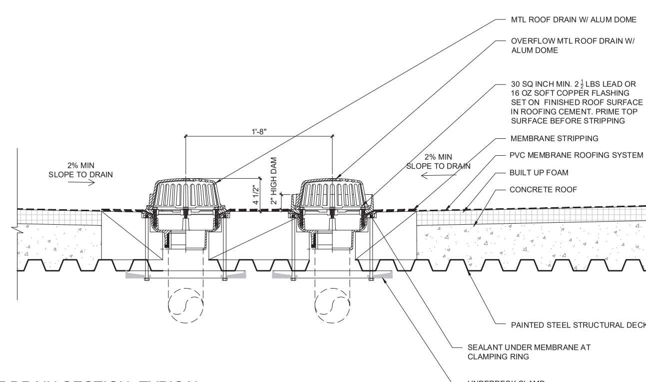
2 ROOF HATCH SECTION

Scale: 1-1/2""=1'-0"



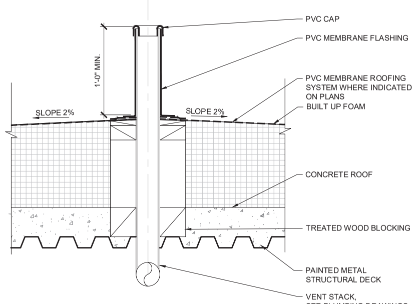
4 ROOF EXHAUST SECTION

Scale: 1-1/2""=1'-0"



1 ROOF DRAIN SECTION, TYPICAL

Scale: 1-1/2""=1'-0"



3 ROOF VENT SECTION, TYPICAL

Scale: 1-1/2""=1'-0"

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MICHAEL MALTZAN ARCHITECTURE
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CITY OF LOS ANGELES — DEPARTMENT OF PUBLIC WORKS — BUREAU OF ENGINEERING

VERT. CONTROL: LA CITY BM 12-04070 (1985 ADJ), NGVD 1929
HORIZ. CONTROL: NAD 83 (ZONE 5) COORDINATES

SHEET TITLE: EAST BUILDING DETAILS
PROJECT: SIXTH STREET PARK, ARTS AND RIVER CONNECTIVITY IMPROVEMENTS (PARC)
ADDRESS: SIXTH STREET OVER THE LOS ANGELES RIVER

GARY LEE MOORE, P.E., ENV SP — CITY ENGINEER
DESIGN GROUP — DATE:
ARCHITECT: MICHAEL MALTZAN — LIC. NO. C-23729 — 7/11/2022
DESIGNED BY:
DRAWN BY:
CHECKED BY:
APPROVED BY:

THIS PLAN WAS ELECTRONICALLY SIGNED AND STAMPED

NO.	REVISIONS:	DATE:	BY:

INDEX NO.

BUILDING NO.

ENGINEERING — CITY OF LOS ANGELES

WORK ORDER NO. E700235D
FILE NO. --
DRAWING NO. AE6-01
SHEET 221 OF 295 SHEETS

REVISION DATES (DESIGN STAGE ONLY)

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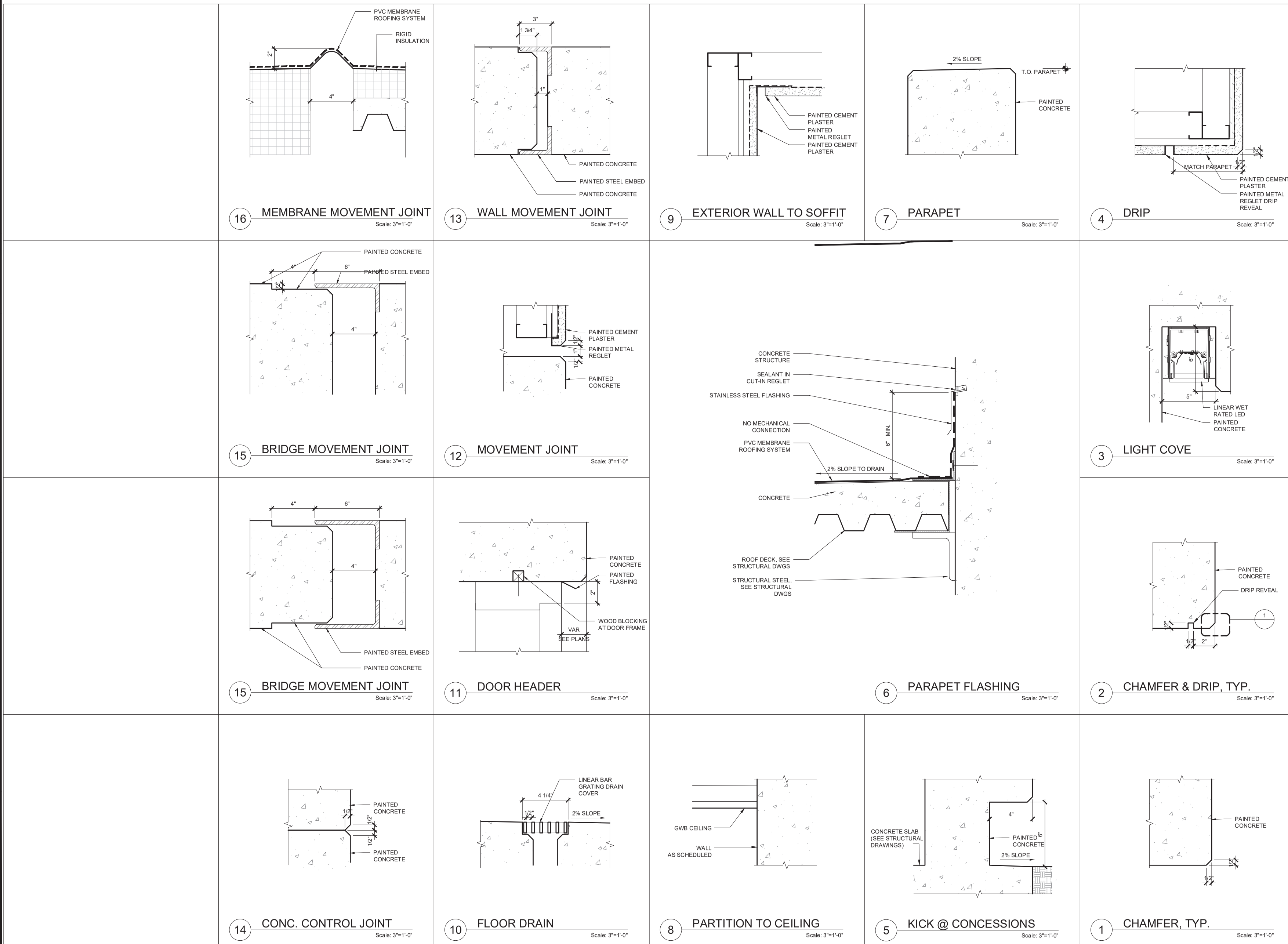

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REVISION DATES (DESIGN STAGE ONLY)

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ADDRESS: SIXTH STREET OVER THE LOS ANGELES RIVER

WORK ORDER NO. E700235D
FILE NO. --
DRAWING NO. AE6-02
SHEET 222 OF 295 SHEETS

GARY LEE MOORE, P.E., ENV SP — CITY ENGINEER
DESIGN GROUP
ARCHITECT: MICHAEL MALTZAN — LIC. NO. C-23729 — DATE: 7/11/2022
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NO.	REVISIONS	DATE	BY

INDEX NO.

BUILDING NO.

ENGINEERING — CITY OF LOS ANGELES

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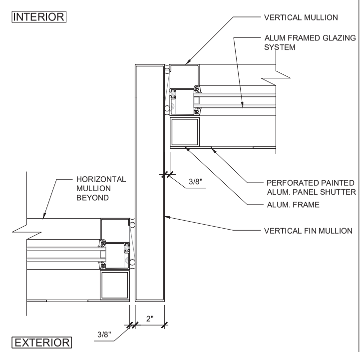
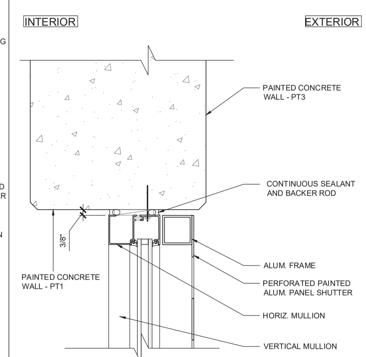
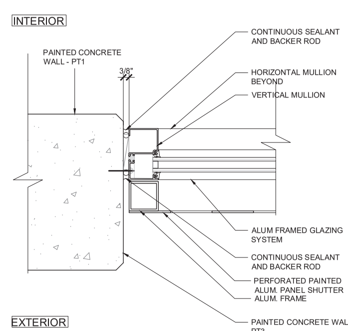


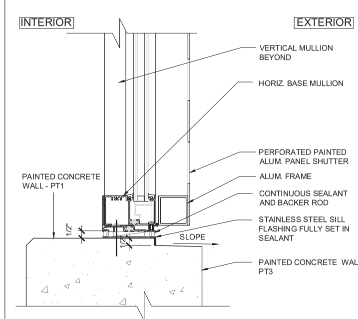
4 PLAN - VERTICAL MULLION
Scale: 3"=1'-0"



2 SECTION - HEAD
Scale: 3"=1'-0"



3 PLAN - JAMB
Scale: 3"=1'-0"



1 SECTION - SILL
Scale: 3"=1'-0"

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CITY OF LOS ANGELES · DEPARTMENT OF PUBLIC WORKS · BUREAU OF ENGINEERING

VERT. CONTROL: LA CITY BM 12-04070 (1985 ADJ), NGVD 1929
HORIZ. CONTROL: NAD 83 (ZONE 5) COORDINATES

SHEET TITLE: STAFF & RESTROOM BUILDING DETAILS
PROJECT: SIXTH STREET PARK, ARTS AND RIVER CONNECTIVITY IMPROVEMENTS (PARC)
ADDRESS: SIXTH STREET OVER THE LOS ANGELES RIVER

WORK ORDER NO. E700235D
FILE NO. --
DRAWING NO. AE6-03
SHEET 223 OF 295 SHEETS

GARY LEE MOORE, P.E., ENV SP — CITY ENGINEER
DESIGN GROUP
ARCHITECT: MICHAEL MALTZAN — LIC. NO. C-23729 — DATE: 7/11/2022
DESIGNED BY:
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APPROVED BY:

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NO.	REVISIONS:	DATE:	BY:

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BUILDING NO.

ENGINEERING — CITY OF LOS ANGELES

REVISION DATES (DESIGN STAGE ONLY)

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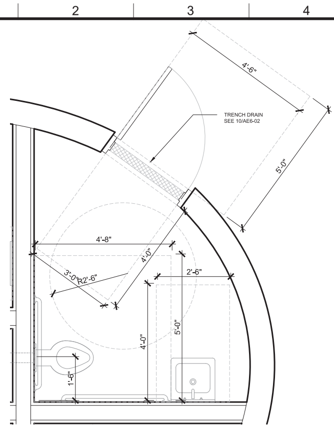
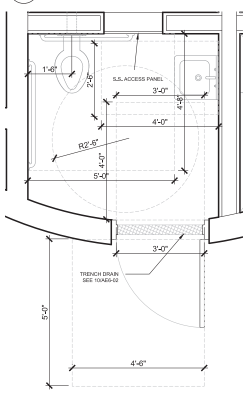


7 RESTROOM ENLARGEMENT
Scale: 1/2"=1'-0"



6 RESTROOM ENLARGEMENT, TYP
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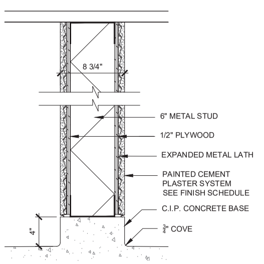
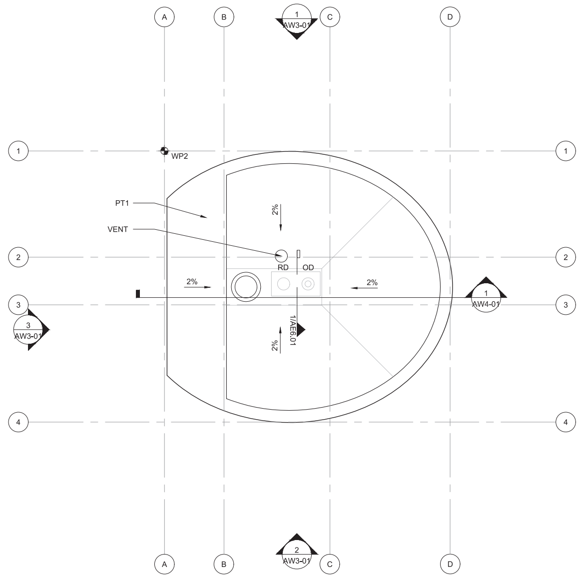


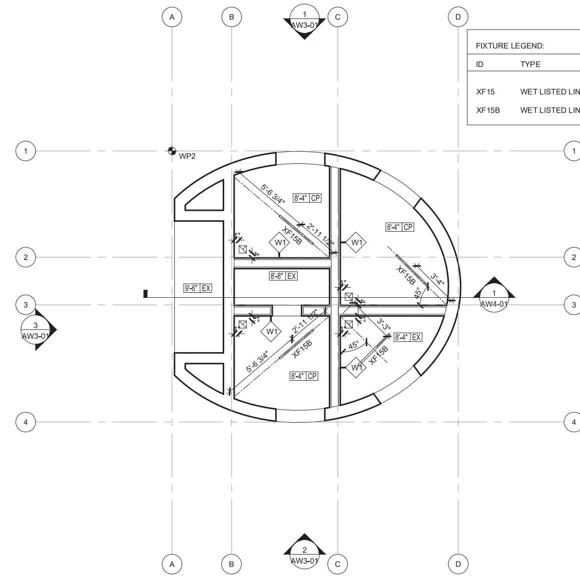
5 PARTITION TYPE W1
Scale: 1-1/2"=1'-0"

GENERAL NOTES:

1. REFER TO A0-03 FOR ALL FIXTURES AND ACCESSORY DIMENSIONS AND MOUNTING HEIGHTS.
2. SMOOTH PAINTED CONCRETE FINISH IN ALL PUBLIC RESTROOMS.
3. ALL WALLS ARE POURED IN PLACE CONCRETE UNLESS OTHERWISE NOTED ON PLANS.



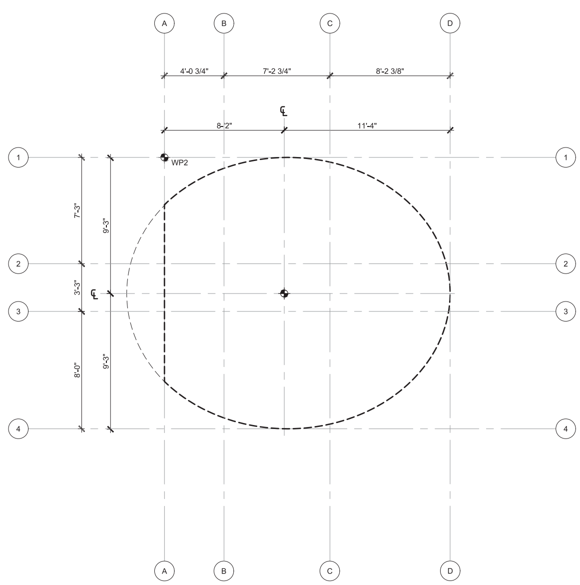
4 WEST BUILDING ROOF PLAN
Scale: 1/4"=1'-0"



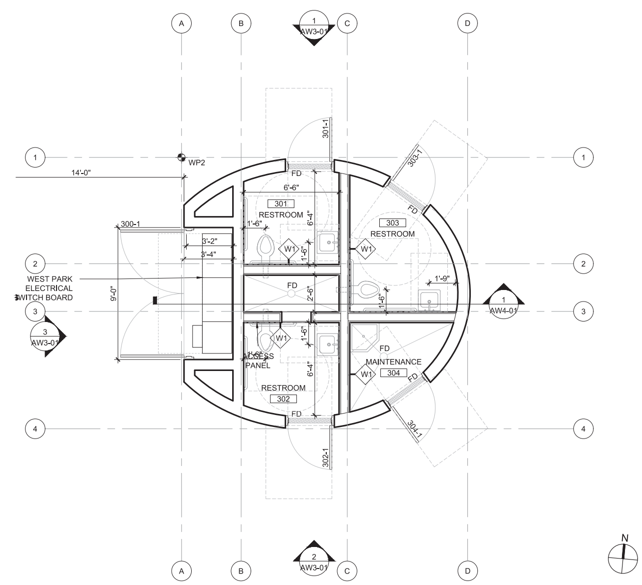
2 WEST BUILDING RCP
Scale: 1/4"=1'-0"

FIXTURE LEGEND:

ID	TYPE	MANUFACTURER	SIZE
XF15	WET LISTED LINEAR LED	PINNACLE EDGE EV3	24"
XF15B	WET LISTED LINEAR LED	PINNACLE EDGE EV3	36"



3 WEST BUILDING GEOMETRY PLAN
Scale: 1/4"=1'-0"



1 WEST BUILDING FLOOR PLAN
Scale: 1/4"=1'-0"

PLANS PREPARED BY:
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CITY OF LOS ANGELES — DEPARTMENT OF PUBLIC WORKS — BUREAU OF ENGINEERING

VERT. CONTROL: LA CITY BM 12-04070 (1995 ADJ), NGVD 1929
HORIZ. CONTROL: NAD 83 (ZONE 5) COORDINATES

SHEET TITLE: WEST BUILDING PLAN
PROJECT: SIXTH STREET PARK, ARTS AND RIVER CONNECTIVITY IMPROVEMENTS (PARC)
ADDRESS: SIXTH STREET OVER THE LOS ANGELES RIVER

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ARCHITECT: MICHAEL MALTZAN — LIC. NO. C-23729 — DATE: 7/11/2022
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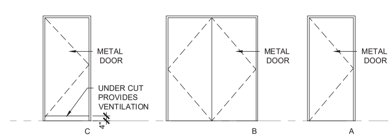
NO. REVISIONS: DATE: BY:

BUILDING NO.
INDEX NO.

WORK ORDER NO. E700235D
FILE NO. --
DRAWING NO. AW2-01
SHEET 224 OF 295 SHEETS



DOOR SCHEDULE

DOOR							FRAME		DETAILS			HDWR GROUP	ROOM NAME	NOTES
#	TYPE	WIDTH	HEIGHT	THICKNESS	MATERIAL	FINISH	MATERIAL	FINISH	JAMB	HEAD	THRESHOLD			
300-1	B	8'-8"	9'-2"		METAL	PT3	METAL	PT3		11/AE6-02		6	ELECTRICAL CLOSET	OVERSIZED, HEAVY DUTY
301-1	C	3'-0"	7'-0"	1.75"	METAL	PT3	METAL	PT3		11/AE6-02	10/AE6-02	4	PUBLIC RESTROOM	4" UNDERCUT
302-1	C	3'-0"	7'-0"	1.75"	METAL	PT3	METAL	PT3		11/AE6-02	10/AE6-02	4	PUBLIC RESTROOM	4" UNDERCUT
303-1	C	3'-0"	7'-0"	1.75"	METAL	PT3	METAL	PT3		11/AE6-02	10/AE6-02	4	PUBLIC RESTROOM	4" UNDERCUT
304-1	A	3'-0"	7'-0"	1.75"	METAL	PT3	METAL	PT3		11/AE6-02		2	MAINTENANCE	

HARDWARE SETS	
SET	DESCRIPTION
1	A/G EXT
2	HM EXT
3	HM INT PRIVACY
4	HM EXT PRIVACY
5	HM STOREROOM
6	HM EXT PR STOREROOM OUTSWING
7	HM INT PR STOREROOM

5 DOOR SCHEDULE
-
N.T.S.

FINISH SCHEDULE

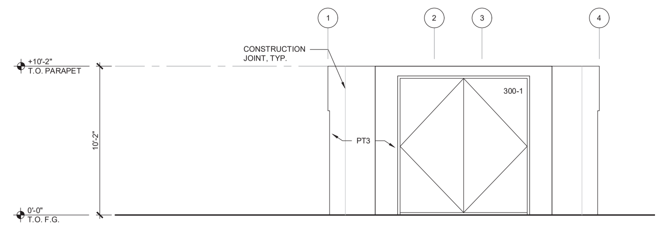
LOCATION		FLOOR		WALLS								CEILING			NOTES
				NORTH (A)		EAST (B)		SOUTH (C)		WEST (D)					
ROOM#	ROOM NAME	FINISH	BASE	MATERIAL	FINISH	MATERIAL	FINISH	MATERIAL	FINISH	MATERIAL	FINISH	MATERIAL	FINISH	HEIGHT	
WEST BUILDING															
301	UNISEX RESTROOM 1	CC1		EX	PT2	CP	PT2	CP	PT2	EX	PT2	CP	PT2	8'-4"	
302	UNISEX RESTROOM 2	CC1		CP	PT2	EX	PT2	CP	PT2	CP	PT2	CP	PT2	8'-4"	
303	UNISEX RESTROOM 3	CC1		EX	PT2	EX	PT2	CP	PT2	CP	PT2	CP	PT2	8'-4"	
304	MAINTENANCE	CC1		CP	PT2	EX	PT2	EX	PT2	CP	PT2	CP	PT2	8'-4"	

* NO BASE ON CONCRETE WALLS

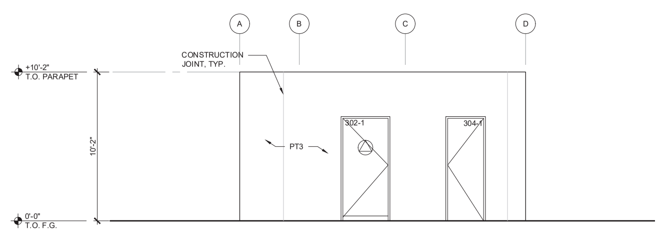
LEGEND

CC1 CONCRETE FLOOR, CLEAR SEALED
EX EXPOSED CONSTRUCTION
PT1 PAINT, INTERIOR NON-ABSORBANT, DUNN EDWARDS DEW380 "WARM WHITE"
PT2 PAINT, EXTERIOR FINISH, MATCH PANTONE 107C OR DUNN EDWARDS DE5404 "HIGHLIGHTER"
PT3 PAINT, EXTERIOR GRAFFITI-RESISTANT FINISH, MATCH PANTONE 107C OR DUNN EDWARDS DE5404 "HIGHLIGHTER"
CP CEMENT PLASTER

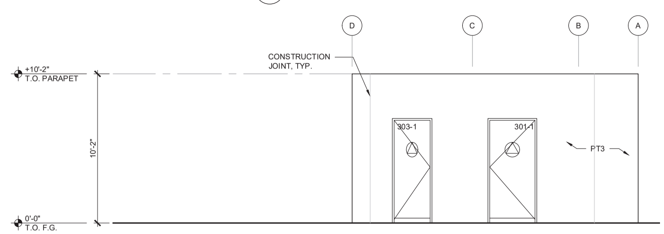
4 FINISH SECHEDULE
-
N.T.S.



3 WEST BUILDING SOUTH ELEVATION
-
Scale: 1/4"=1'-0"



2 WEST BUILDING SOUTH ELEVATION
-
Scale: 1/4"=1'-0"



1 WEST BUILDING NORTH ELEVATION
-
Scale: 1/4"=1'-0"

PLANS PREPARED BY:
TETRA TECH, INC.
350 SOUTH GRAND AVENUE, SUITE 3310
LOS ANGELES, CALIFORNIA 90071
Phone: (213) 279-3283

MICHAEL MALTZAN ARCHITECTURE
2801 HYPERION AVENUE, STUDIO 107 | LOS ANGELES, CA 90027 | (323) 913 3098

CITY OF LOS ANGELES — DEPARTMENT OF PUBLIC WORKS — BUREAU OF ENGINEERING

THIS PLAN WAS ELECTRONICALLY SIGNED AND STAMPED

GARY LEE MOORE, P.E., ENV SP — CITY ENGINEER
DESIGN GROUP
ARCHITECT: MICHAEL MALTZAN — LIC. NO. C-23729 — DATE: 7/11/2022
DESIGNED BY:
DRAWN BY:
CHECKED BY:
APPROVED BY:

VERT. CONTROL: LA CITY BM 12-04070 (1985 ADJ), NGVD 1929
HORIZ. CONTROL: NAD 83 (ZONE 5) COORDINATES
SHEET TITLE: WEST BUILDING ELEVATIONS
PROJECT: SIXTH STREET PARK, ARTS AND RIVER CONNECTIVITY IMPROVEMENTS (PARC)
ADDRESS: SIXTH STREET OVER THE LOS ANGELES RIVER

NO. REVISIONS: DATE: BY:

INDEX NO.
BUILDING NO.

ENGINEERING CITY OF LOS ANGELES

WORK ORDER NO. E700235D
FILE NO. --
DRAWING NO. AW3-01
SHEET 225 OF 295 SHEETS

BID SET - NOT FOR CONSTRUCTION

REVISION DATES (DESIGN STAGE ONLY)

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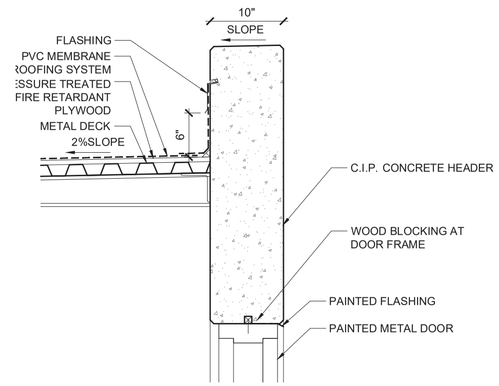
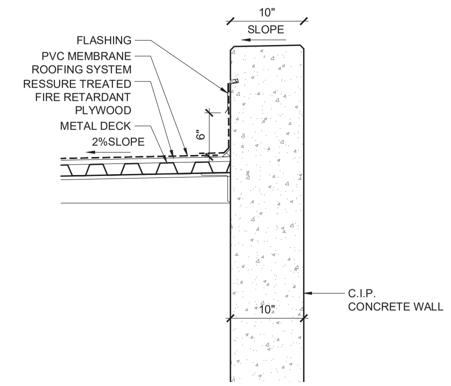
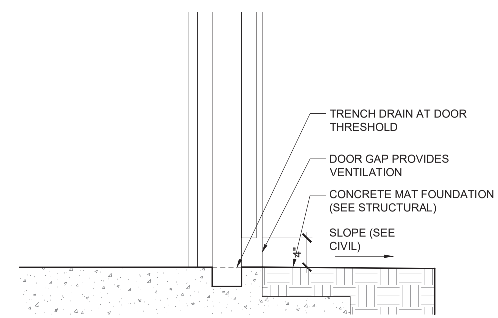


5 DOOR HEAD SECTION
Scale: 1-1/2""=1'-0"

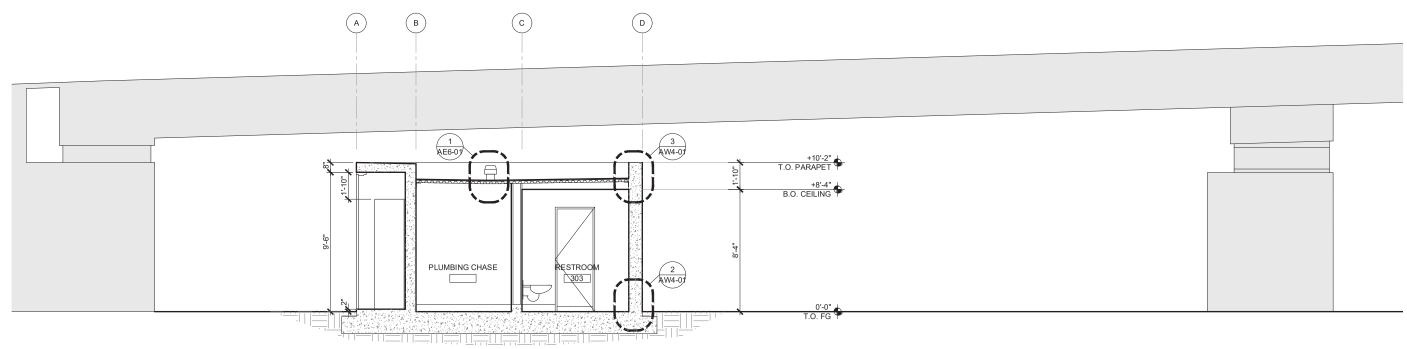


3 PARAPET SECTION
Scale: 1-1/2""=1'-0"



4 DOOR BASE SECTION
Scale: 1-1/2""=1'-0"

2 WALL BASE SECTION
Scale: 1-1/2""=1'-0"



1 RESTROOM SECTION
Scale: 1/4"=1'-0"

PLANS PREPARED BY:

TETRA TECH, INC.
350 SOUTH GRAND AVENUE, SUITE 3310
LOS ANGELES, CALIFORNIA 90071
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MICHAEL
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ARCHITECTURE
2801 HYPERION AVENUE, STUDIO 107 | LOS ANGELES, CA 90027 | (323) 913 3098

CITY OF LOS ANGELES — DEPARTMENT OF PUBLIC WORKS — BUREAU OF ENGINEERING

VERT. CONTROL: LA CITY BM 12-04070 (1985 ADJ), NGVD 1929
HORIZ. CONTROL: NAD 83 (ZONE 5) COORDINATES

SHEET TITLE: WEST BUILDING SECTIONS
PROJECT: SIXTH STREET PARK, ARTS AND RIVER CONNECTIVITY IMPROVEMENTS (PARC)
ADDRESS: SIXTH STREET OVER THE LOS ANGELES RIVER

GARY LEE MOORE, P.E., ENV SP — CITY ENGINEER
DESIGN GROUP
ARCHITECT: MICHAEL MALTZAN — LIC. NO. C-23729 — DATE: 7/11/2022
DESIGNED BY:
DRAWN BY:
CHECKED BY:
APPROVED BY:

THIS PLAN WAS ELECTRONICALLY SIGNED AND STAMPED

NO.	REVISIONS:	DATE:	BY:

INDEX NO.
BUILDING NO.

ENGINEERING — CITY OF LOS ANGELES

WORK ORDER NO. E700235D
FILE NO. --
DRAWING NO. AW4-01
SHEET 226 OF 295 SHEETS

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REVISION DATES (DESIGN STAGE ONLY)

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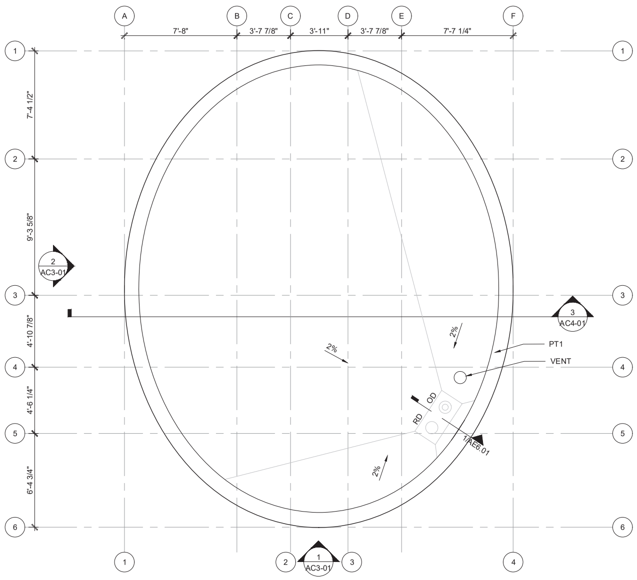
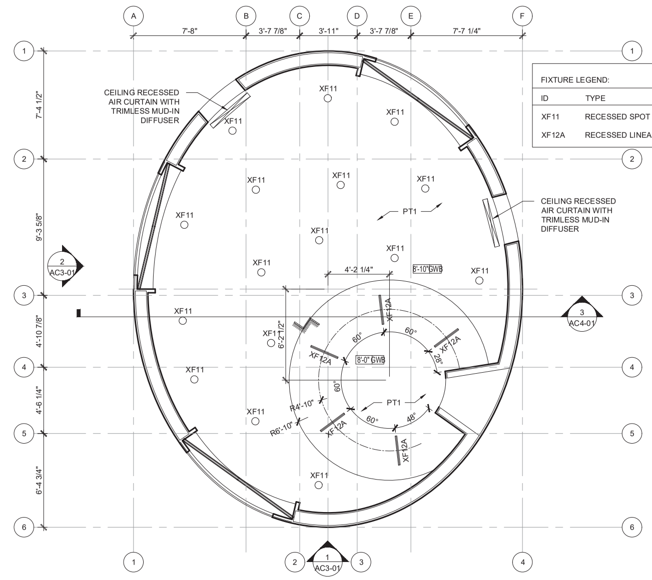
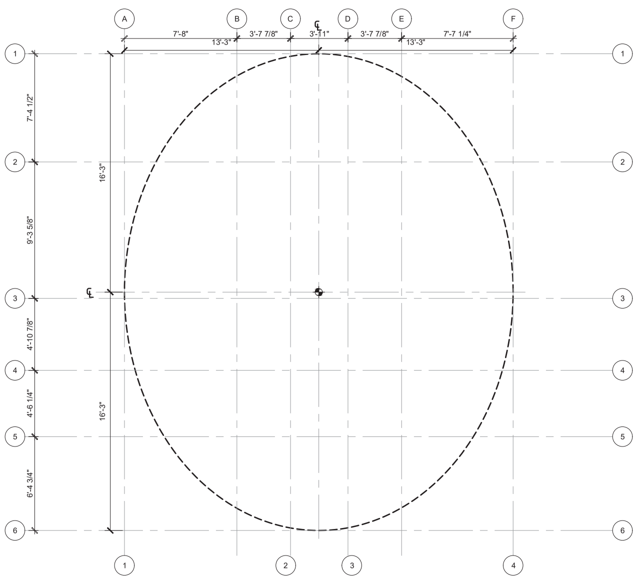


4 CAFE ROOF PLAN
Scale: 1/4"=1'-0"

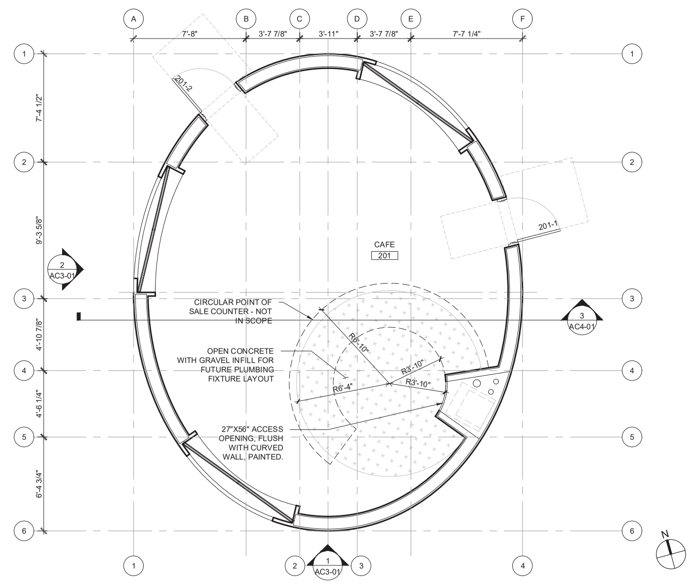


FIXTURE LEGEND:			
ID	TYPE	MANUFACTURER	SIZE
XF11	RECESSED SPOT LED	ALPHABET NU4RA	4"
XF12A	RECESSED LINEAR LED	MARK SLOT4 LED	24"

2 CAFE RCP
Scale: 1/4"=1'-0"



3 CAFE GEOMETRY PLAN
Scale: 1/4"=1'-0"



1 CAFE FLOOR PLAN
Scale: 1/4"=1'-0"

PLANS PREPARED BY:
TETRA TECH, INC.
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CITY OF LOS ANGELES
DEPARTMENT OF PUBLIC WORKS
BUREAU OF ENGINEERING

GARY LEE MOORE, P.E., ENV SP — CITY ENGINEER
DESIGN GROUP
ARCHITECT: MICHAEL MALTZAN — LIC. NO. C-23729 — DATE: 7/11/2022
DESIGNED BY:
DRAWN BY:
CHECKED BY:
APPROVED BY:

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VERT. CONTROL: LA CITY BM 12-04070 (1985 ADJ), NGVD 1929
HORIZ. CONTROL: NAD 83 (ZONE 5) COORDINATES
SHEET TITLE: CAFE AND RESTROOM PLAN
PROJECT: SIXTH STREET PARK, ARTS AND RIVER CONNECTIVITY IMPROVEMENTS (PARC)
ADDRESS: SIXTH STREET OVER THE LOS ANGELES RIVER

NO. | REVISIONS: | DATE: | BY:
INDEX NO.
BUILDING NO.

ENGINEERING
CITY OF LOS ANGELES

WORK ORDER NO. E700235D
FILE NO. --
DRAWING NO. AC2-01
SHEET 227 OF 295 SHEETS

REVISION DATES (DESIGN STAGE ONLY)

Sheet Version 3.0

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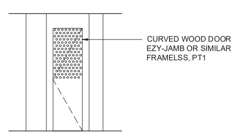
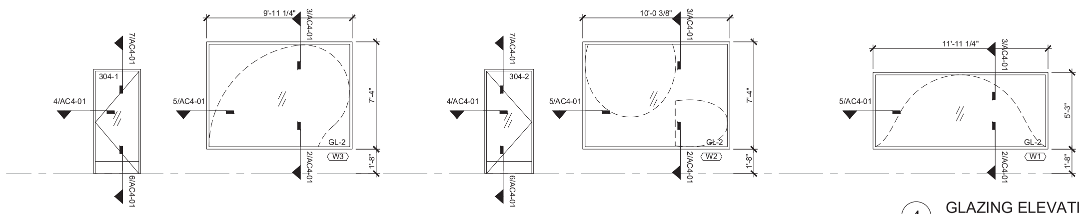
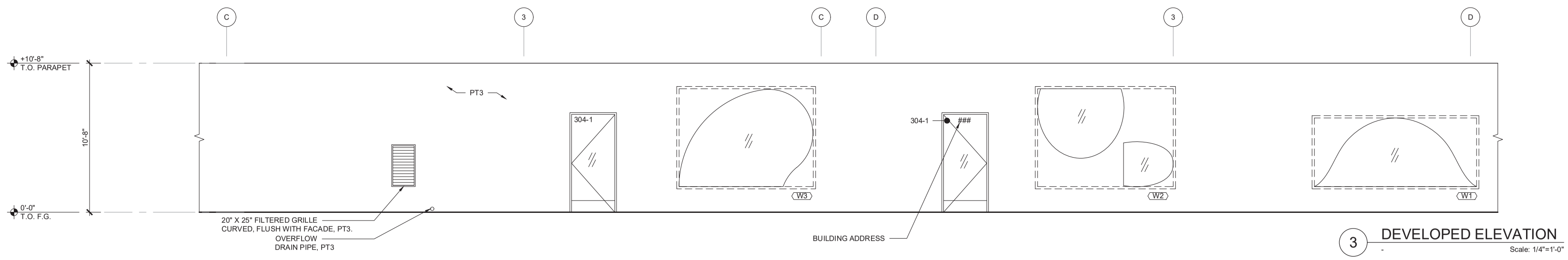


8 UTILITY CLOSET DOOR ELEVATION
Scale: 1/4"=1'-0"



4 GLAZING ELEVATIONS
Scale: 1/4"=1'-0"



3 DEVELOPED ELEVATION
Scale: 1/4"=1'-0"

GLAZING TYPE	GLAZING DESCRIPTION	NOTES
GL-1	CLEAR 1" THICK IGU, FIXED (WESTERN WINDOWS 700 SERIES OR SIMILAR)	EAST BUILDING OFFICE WINDOWS SEE AE- SERIES
GL-2	CLEAR 1/2" THICK LAMINATED 2 LAYERS, TOP/BOTTOM/ENDS SET INTO ALUMINUM CHANNEL	CAFÉ WINDOWS SEE AC- SERIES

7 GLAZING TYPES
No Scale

FINISH SCHEDULE

LOCATION		FLOOR		WALLS								CEILING			NOTES
				NORTH (A)		EAST (B)		SOUTH (C)		WEST (D)					
ROOM#	ROOM NAME	FINISH	BASE	MATERIAL	FINISH	MATERIAL	FINISH	MATERIAL	FINISH	MATERIAL	FINISH	MATERIAL	FINISH	HEIGHT	
CAFE BUILDING															
201	CAFÉ	CC1	RB	GYP	PT1	GYP	PT1	GYP	PT1	GYP	PT1	GYP	PT1	8'-10"	

* NO BASE ON CONCRETE WALLS

LEGEND

CC1	CONCRETE FLOOR, CLEAR SEALED
GYP	GYPSUM BOARD
PT1	PAINT, INTERIOR NON-ABSORBANT, DUNN EDWARDS DEW380 "WARM WHITE"
PT2	PAINT, EXTERIOR FINISH, MATCH PANTONE 107C OR DUNN EDWARDS DE5404 "HIGHLIGHTER"
PT3	PAINT, EXTERIOR GRAFFITI-RESISTANT FINISH, MATCH PANTONE 107C OR DUNN EDWARDS DE5404 "HIGHLIGHTER"
CP	CEMENT PLASTER

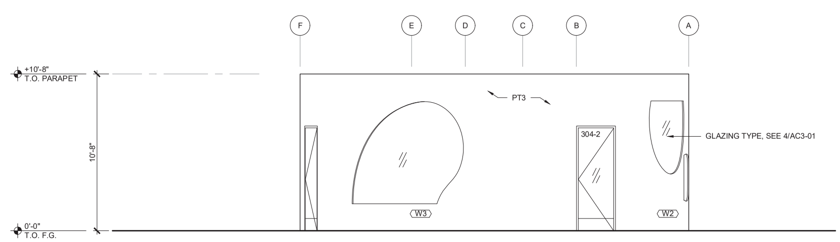
6 FINISH SCHEDULE
No Scale

DOOR SCHEDULE

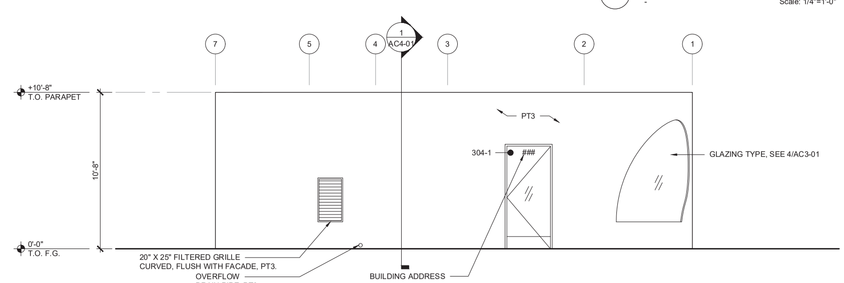
DOOR							FRAME		DETAILS			HDWR GROUP	ROOM NAME	NOTES
#	TYPE	WIDTH	HEIGHT	THICKNESS	MATERIAL	FINISH	MATERIAL	FINISH	JAMB	HEAD	THRESHOLD			
201-1	A	3'-0"	7'-0"	1.75"	GLAZ	N/A	ALUM	N/A		7/AC4-01	6/AC4-01	1	CAFÉ	ADDRESS, SIGN DOOR SHALL REMAIN UNLOCKED DURING BUSINESS HOURS
201-2	A	3'-0"	7'-0"	1.75"	GLAZ	N/A	ALUM	N/A		7/AC4-01	6/AC4-01	1	CAFÉ	SIGN DOOR SHALL REMAIN UNLOCKED DURING BUSINESS HOURS

HARDWARE SETS	
SET	DESCRIPTION
1	A/G EXT
2	HM EXT
3	HM INT PRIVACY
4	HM EXT PRIVACY
5	HM STOREROOM
6	HM EXT PR STOREROOM OUTSWING
7	HM INT PR STOREROOM

5 DOOR SCHEDULE
No Scale



2 CAFE WEST ELEVATION
Scale: 1/4"=1'-0"



1 CAFE EAST ELEVATION
Scale: 1/4"=1'-0"

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LOS ANGELES, CALIFORNIA 90071
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CITY OF LOS ANGELES
DEPARTMENT OF PUBLIC WORKS
BUREAU OF ENGINEERING

GARY LEE MOORE, P.E., ENV SP — CITY ENGINEER — DATE
DESIGN GROUP
ARCHITECT: MICHAEL MALTZAN — LIC. NO. C-23729 — 7/11/2022
DESIGNED BY:
DRAWN BY:
CHECKED BY:
APPROVED BY:

THIS PLAN WAS ELECTRONICALLY SIGNED AND STAMPED

NO. REVISIONS: DATE: BY:
INDEX NO.
BUILDING NO.

VERT. CONTROL: LA CITY BM 12-04070 (1995 ADJ), NGVD 1929
HORIZ. CONTROL: NAD 83 (ZONE 5) COORDINATES
SHEET TITLE: CAFE & RESTROOM BUILDING ELEVATIONS
PROJECT: SIXTH STREET PARK, ARTS AND RIVER CONNECTIVITY IMPROVEMENTS (PARC)
ADDRESS: SIXTH STREET OVER THE LOS ANGELES RIVER

WORK ORDER NO. E700235D
FILE NO. --
DRAWING NO. AC3-01
SHEET 228 OF 295 SHEETS

REVISION DATES (DESIGN STAGE ONLY)

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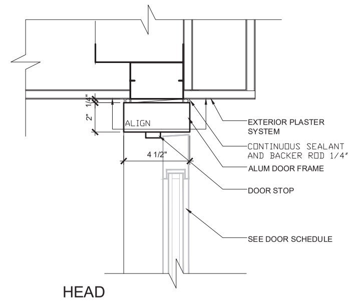
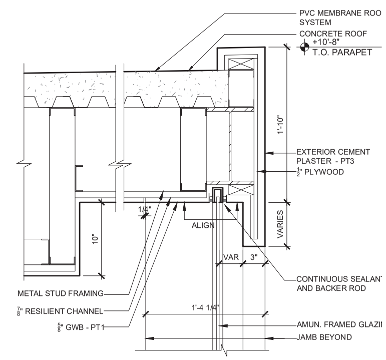
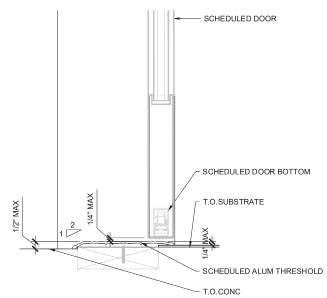


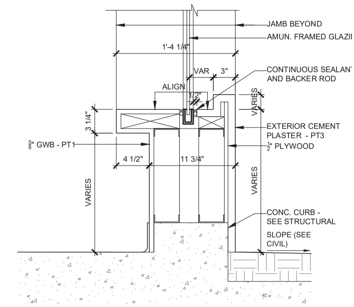
5 HEAD
TYP ALUM FRAMED DOOR
Scale: 3"=1'-0"



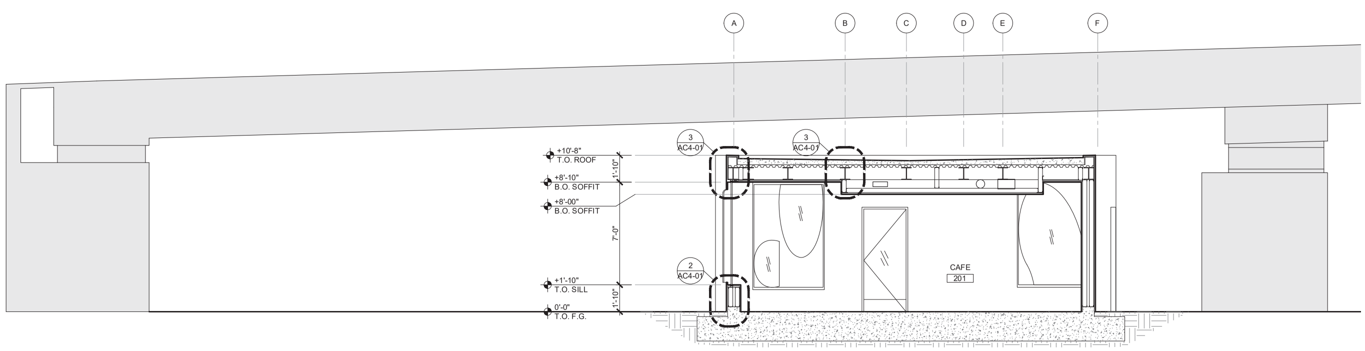
3 HEADER DETAIL
Scale: 1 1/2"=1'-0"



4 THRESHOLD
CONCRETE / CONCRETE FLOOR
Scale: 3"=1'-0"



2 BASE DETAIL
Scale: 1 1/2"=1'-0"



1 CAFE SECTION
Scale: 1/4"=1'-0"

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CITY OF LOS ANGELES — DEPARTMENT OF PUBLIC WORKS — BUREAU OF ENGINEERING

VERT. CONTROL: LA CITY BM 12-04070 (1985 ADJ), NGVD 1929
HORIZ. CONTROL: NAD 83 (ZONE 5) COORDINATES

SHEET TITLE: CAFE & RESTROOM BUILDING SECTIONS
PROJECT: SIXTH STREET PARK, ARTS AND RIVER CONNECTIVITY IMPROVEMENTS (PARC)
ADDRESS: SIXTH STREET OVER THE LOS ANGELES RIVER

WORK ORDER NO. E700235D
FILE NO. --
DRAWING NO. AC4-01
SHEET 229 OF 295 SHEETS

GARY LEE MOORE, P.E., ENV SP — CITY ENGINEER
DESIGN GROUP
ARCHITECT: MICHAEL MALTZAN — LIC. NO. C-23729 — DATE: 7/11/2022
DESIGNED BY:
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APPROVED BY:

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BID SET - NOT FOR CONSTRUCTION

GENERAL STRUCTURAL NOTES
THESE NOTES SHALL APPLY UNLESS SHOWN/INDICATED OTHERWISE ELSEWHERE IN THE STRUCTURAL DRAWINGS.

GENERAL

1. ALL MATERIALS AND CONSTRUCTION SHALL CONFORM TO THE 2019 CITY OF LOS ANGELES BUILDING CODE (L.A.B.C.), BASED UPON THE 2018 EDITION OF THE INTERNATIONAL BUILDING CODE (I.B.C.).

2. THE CONTRACTOR ACKNOWLEDGES RESPONSIBILITY FOR JOBSITE SAFETY AND ACKNOWLEDGES THAT THE ENGINEER WILL NOT HAVE SUCH RESPONSIBILITY. IF A LAWSUIT IS FILED BY ONE OF THE CONTRACTOR'S OR SUBCONTRACTOR'S EMPLOYEES, OR ANY ONE ELSE, THE CONTRACTOR WILL INDEMNIFY, DEFEND AND HOLD THE OWNER AND TETRA TECH, INC., THEIR PARENT AND SUBSIDIARY COMPANIES HARMLESS OF ANY AND ALL SUCH CLAIMS.

3. CONTRACTOR SHALL VERIFY ALL EXISTING CONDITIONS AND DIMENSIONS BEFORE STARTING WORK. SHOULD CONDITIONS EXIST WHICH ARE CONTRARY TO THOSE SHOWN ON PLANS, THE ENGINEER SHALL BE NOTIFIED IN WRITING BEFORE PROCEEDING WITH WORK.

4. IT SHALL BE THE RESPONSIBILITY OF THE CONTRACTOR TO ENSURE THAT ALL WORK IS ADEQUATELY BRACED AND SHORED DURING CONSTRUCTION. ALL BRACING/SHORING SHALL BE DESIGNED BY A REGISTERED ENGINEER HIRED BY THE CONTRACTOR. THE CONTRACTOR SHALL NOT PLACE SOIL BACKFILL AGAINST WALLS UNTIL THE CONCRETE OR MASONRY GROUT HAS REACHED THE MINIMUM SPECIFIED 28 DAY COMPRESSIVE STRENGTH (f'c) AND IS AT LEAST 10 DAYS OLD.

5. UNLESS DETAILED, SPECIFIED, OR INDICATED OTHERWISE, CONSTRUCTION SHALL BE AS INDICATED IN THE APPLICABLE TYPICAL DETAILS AND THESE GENERAL NOTES. TYPICAL DETAILS ARE MEANT TO APPLY EVEN THOUGH NOT REFERENCED AT SPECIFIC LOCATIONS ON DRAWINGS WHERE THEY OCCUR.

6. THE CONTRACT DRAWINGS AND SPECIFICATIONS REPRESENT THE FINISHED STRUCTURE. THEY DO NOT INDICATE THE METHOD OF CONSTRUCTION. THE CONTRACTOR SHALL PROVIDE ALL MEASURES NECESSARY TO PROTECT THE STRUCTURE, WORKERS AND PEDESTRIANS DURING CONSTRUCTION. SUCH MEASURES SHALL INCLUDE, BUT NOT BE LIMITED TO BRACING, SHORING FOR LOADS DUE TO CONSTRUCTION EQUIPMENT, TEMPORARY STRUCTURES, AND PARTIALLY COMPLETED WORK, ETC. OBSERVATION VISITS TO THE SITE BY THE ENGINEER SHALL NOT BE CONSIDERED AS INSPECTION OF SUCH ITEMS.

7. DIMENSIONS SHALL TAKE PRECEDENCE OVER SCALES SHOWN ON DRAWINGS.

8. ALL WORK SHALL CONFORM TO THE PLANS AND SPECIFICATIONS IN ALL RESPECTS AND SHALL BE SUBJECT TO APPROVAL BY THE ENGINEER.

9. SEE CIVIL DRAWINGS FOR SIZE AND LOCATION OF ALL OPENINGS, PIPING, ETC.

10. BY ACCEPTING THIS CONTRACT, CONTRACTOR HEREBY RELEASES AND AGREES TO INDEMNIFY, DEFEND, HOLD HARMLESS THE OWNER, ENGINEER, (HEREINAFTER TETRA TECH, INC.), THEIR PARENT AND SUBSIDIARY COMPANIES, AGENTS, EMPLOYEES, CONSULTANTS AND REPRESENTATIVES FOR ANY AND ALL DAMAGE TO PERSONS OR PROPERTY OR WRONGFUL DEATH REGARDLESS OF WHETHER OR NOT SUCH CLAIM, DAMAGE, LOSS OR EXPENSE IS CAUSED IN WHOLE OR IN PART BY THE NEGLIGENCE, ACTIVE OR PASSIVE, OF OWNER, ENGINEER, THEIR PARENT AND SUBSIDIARY COMPANIES AS WELL AS THEIR AGENTS AND EMPLOYEES, TO THE FULLEST EXTENT PERMITTED BY LAW. SUCH INDEMNIFICATION SHALL EXTEND TO ALL CLAIMS, DEMANDS, ACTIONS, OR LIABILITY FOR INJURIES, DEATH OR DAMAGES OCCURRING AFTER COMPLETION OF THE PROJECT, AS WELL AS DURING THE WORK'S PROGRESS. CONTRACTOR FURTHER AGREES THAT IT SHALL ACCOMPLISH THE ABOVE AT ITS OWN COST, EXPENSE AND RISK EXCLUSIVE OF AND REGARDLESS OF ANY APPLICABLE INSURANCE POLICY OR POSITION TAKEN BY ANY INSURANCE COMPANY REGARDING COVERAGE.

11. SOIL PROPERTIES, ALLOWABLE DESIGN VALUES, GRADING AND COMPACTION REQUIREMENTS AS PER GEOTECHNICAL REPORT BY TETRA TECH BAS, INC., PROJECT NO. TET-21-203E DATED AUGUST 2021. THIS REPORT SHALL BE CONSIDERED A PART OF THESE PLANS AND SHALL BE KEPT AT THE JOB SITE AT ALL TIMES. A COPY OF THIS REPORT IS AVAILABLE FOR REVIEW IN THE ENGINEER'S OFFICE.

12. CONTRACTOR SHALL VERIFY LOCATION OF ALL SITE UTILITIES PRIOR TO STARTING WORK, BOTH ABOVE GROUND AND BELOW GROUND, WHICH MAY BE IMPACTED BY THE WORK SHOWN ON THESE DRAWINGS. ANY CONFLICTS SHALL BE BROUGHT TO THE ATTENTION OF THE ENGINEER.

13. CONTRACTOR SHALL DEFEND, INDEMNIFY AND HOLD THE CLIENT AND TETRA TECH, INC. THEIR PARENT AND SUBSIDIARY COMPANIES, ITS EMPLOYEES, OFFICERS, OR AGENTS, HARMLESS AGAINST ANY AND ALL CLAIMS BY ANY PARTIES ARISING FROM, OR RELATED TO, ANY AND ALL DAMAGES, INCLUDING LEGAL COSTS AND ATTORNEY'S FEES, RESULTING FROM INTERFERENCE WITH, INTERRUPTION OF, DAMAGE TO, OR ANY AND ALL INJURIES WHICH RESULT FROM DAMAGE CAUSED TO SUBSURFACE INSTALLATION, WHICH IS UNFORESEEN AND DESPITE ENGINEER'S EFFORT DURING THE DESIGN PROCESS WAS NOT LOCATED, EXCEPTING ONLY THE GROSS NEGLIGENCE OR WILLFUL MISCONDUCT OF ENGINEER IN PROVIDING ITS SERVICES.

14. ALL ITEMS SHOWN ON THESE PLANS ARE NEW UNLESS NOTED (E), EXIST. OR EXISTING.

REINFORCING NOTES

1. REINFORCEMENT FOR CONCRETE SHALL BE DEFORMED BARS CONFORMING TO A.S.T.M. SPECIFICATION A615 (A706/A706M FOR WELDED REINFORCING). GRADE 60 STEEL SHALL BE USED.

2. ALL REINFORCEMENT, ANCHOR BOLTS, AND OTHER ANCHORAGES PLACED IN CONCRETE SHALL BE ACCURATELY PLACED AND POSITIVELY SECURED AND SUPPORTED BY CONCRETE BLOCKS, METAL CHAIRS, SPACERS, OR METAL HANGERS, AND SHALL BE IN POSITION BEFORE CONCRETE PLACING OR GROUTING IS BEGUN. DETAILING AND PLACING OF BARS SHALL CONFORM TO THE A.C.I. MANUAL OF STANDARD PRACTICES.

3. BARS SPECIFIED AS "CONTINUOUS" SHALL EXTEND THE FULL LENGTH OF THE MEMBER CONTAINING THEM AND MAY BE SPLICED (UNLESS NOTED OR SHOWN WITHOUT SPLICES ON THE PLANS). IN CONCRETE, PROVIDE LAPS PER DETAIL 4 ON SHEET S-501. STAGGER ALL SPLICES.

4. DOWELS SHALL BE PROVIDED AT ALL POUR JOINTS AND SHALL BE THE SAME SIZE AND SPACING AS REINFORCING DIRECTLY BEYOND POUR JOINTS.

5. WELDING OF REINFORCING STEEL, METAL INSERTS AND CONNECTIONS IN REINFORCED CONCRETE OR MASONRY CONSTRUCTION SHALL CONFORM TO ANSI/AWS D1.4-11. USE LOW HYDROGEN E-70 SERIES ELECTRODES FOR WELDING OF REINFORCING BARS. CONTINUOUS INSPECTION IS REQUIRED OF ALL FIELD WELDING IN ACCORDANCE WITH C.B.C. CHAPTER 17.

6. THE SPECIFIED DIMENSIONS OF THE VERTICAL LEGS OF "L" DOWELS, WHOSE HORIZONTAL LEGS ARE CAST INTO A FOOTING OR SLAB CAST ON TOP OF EARTH, ARE BASED UPON THE SLAB THICKNESS AS SHOWN ON THE DRAWINGS. IF A SLAB IS POURED THICKER THAN SHOWN ON THE DRAWINGS, SUCH AS FOR THE SUBGRADE OCCURRING AT A LOWER ELEVATION THAN SHOWN, THE VERTICAL LEGS MUST BE FABRICATED TO A LONGER LENGTH OR THE HORIZONTAL TAILS MUST BE SUPPORTED ABOVE SUBGRADE HIGH ENOUGH TO PROVIDE THE SAME AMOUNT OF LAP LENGTH BETWEEN THE DOWEL AND THE WALL VERTICAL REINFORCING.

CONCRETE NOTES

1. ALL EAST BUILDING AND WEST BUILDING CONCRETE SHALL HAVE A MINIMUM ULTIMATE COMPRESSIVE STRENGTH OF 4000 PSI AT 28 DAYS. ALL RETAINING WALL, U-WALL, AND TUNNEL CONCRETE SHALL HAVE A MINIMUM ULTIMATE COMPRESSIVE STRENGTH OF 5000 PSI AT 28 DAYS.AGGREGATES SHALL CONFORM TO A.S.T.M. C33. AGGREGATES FOR LIGHTWEIGHT CONCRETE SHALL CONFORM TO A.S.T.M. C330.

2. CEMENT FOR CONCRETE SHALL BE TYPE II/V PORTLAND CEMENT CONFORMING TO A.S.T.M. C150.

3. CONCRETE COVER FOR REINFORCING BARS SHALL BE:
CAST AGAINST AND PERMANENTLY EXPOSED TO EARTH = 3"
EXPOSED TO EARTH OR WEATHER: NO. 6 THROUGH NO. 18 BARS = 2"
NO. 5 BARS AND SMALLER = 1 1/2"

4. DRYPACK SHALL BE 1 PART CEMENT AND 3 PARTS SAND (BY VOLUME).

5. NO PIPES OR DUCTS SHALL BE PLACED IN STRUCTURAL CONCRETE UNLESS SPECIFICALLY DETAILED. SEE CIVIL, ARCHITECTURAL AND MECHANICAL DRAWINGS FOR LOCATION OF SLEEVES THROUGH WALLS.

6. THE LOCATION OF ALL CONSTRUCTION JOINTS NOT SPECIFICALLY NOTED OR SHOWN SHALL BE APPROVED BY THE STRUCTURAL ENGINEER.

7. "ROUGHENED SURFACE(S)" OR "ROUGHENED JOINT(S)", WHERE SPECIFIED ON THE DRAWINGS, SHALL BE MECHANICALLY ROUGHENED SUCH THAT A 1/4" AMPLITUDE (±) IS ACHIEVED BETWEEN HIGH AND LOW SPOTS OF THE ROUGHENED SURFACE. THE SURFACE SHALL BE CLEAN AND FREE OF LAITANCE.

8. BOTH FACES OF CONCRETE WALLS, EDGES OF CONCRETE FOUNDATIONS, AND OTHER FORMED CONCRETE SURFACES WHERE THE SPECIFIED CONCRETE COVER IS 2 INCHES, SHALL BE PLACED AGAINST FORMWORK WHICH COMPLIES WITH THE PROJECT SPECIFICATIONS. CONCRETE FOR THESE ELEMENTS SHALL NOT BE CAST AGAINST EARTH.

9. ANCHOR RODS SHALL BE GALVANIZED, FURNISHED WITH CHAMFERED ENDS, AND SHALL MEET STRENGTH AND DUCTILITY REQUIREMENTS EQUIVALENT ASTM F1554, GR 36.

STRUCTURAL STEEL NOTES

1. ALL WIDE FLANGE MEMBERS SHALL BE IN ACCORDANCE WITH A.S.T.M. A-992. ALL OTHER STRUCTURAL AND MISCELLANEOUS STEEL SHALL BE A.S.T.M. A36 UNLESS NOTED OTHERWISE. STRUCTURAL STEEL SHALL BE FABRICATED AND ERECTED IN ACCORDANCE WITH THE AISC SPECIFICATION FOR THE DESIGN, FABRICATION AND ERECTION OF STRUCTURAL STEEL FOR BUILDINGS. SPECIAL INSPECTION SHALL BE PROVIDED FOR ALL STRUCTURAL STEEL IN ACCORDANCE WITH IBC SECTION 1705.2.1, UNLESS FABRICATION IS PERFORMED ON THE PREMISES OF A FABRICATOR REGISTERED AND APPROVED TO PERFORM SUCH WORK WITHOUT SPECIAL INSPECTION, IN ACCORDANCE WITH THE PROJECT SPECIFICATIONS AND SECTION 1704.2.5.1 OF THE 2020 L.A.B.C. AT THE COMPLETION OF FABRICATION, THE APPROVED FABRICATOR SHALL SUBMIT A CERTIFICATE OF COMPLIANCE TO THE CITY BUILDING OFFICIAL (OR OWNER IF THE PROJECT IS NOT UNDER THE JURISDICTION OF A BUILDING DEPARTMENT) AND TO THE ENGINEER STATING THAT THE WORK WAS PERFORMED IN ACCORDANCE WITH THE CONTRACT DOCUMENTS.

2. STEEL TUBES SHALL CONFORM TO A.S.T.M. A500, GRADE B OR BETTER, U.N.O.

3. STEEL PIPES SHALL CONFORM TO A.S.T.M. A53, GRADE B.

4. BOLTS SHALL CONFORM TO ASTM A325 OR BETTER, UNLESS NOTED OTHERWISE.

5. HIGH STRENGTH BOLTS SHALL BE ASTM F3125 (OR AS NOTED OTHERWISE) AND SHALL CONFORM TO THE REQUIREMENTS THE RESEARCH COUNCIL ON STRUCTURAL CONNECTIONS (RCSC) SPECIFICATION FOR STRUCTURAL JOINTS USING HIGH STRENGTH BOLTS. CONTACT FACES OF STEEL AT CONNECTIONS WHERE HIGH STRENGTH BOLTS ARE USED SHALL NOT BE PAINTED. JOINTS WILL RECEIVE CAULKING FOLLOWING ERECTION AND COATING. COMPRESSIBLE-WASHER-TYPE DIRECT TENSION INDICATORS OR TWIST-OFF-TYPE TENSION-CONTROL BOLTS SHALL BE PROVIDED AT ALL HIGH STRENGTH BOLTED CONNECTIONS.

6. WHERE SPECIFIED, USE OF HIGH-STRENGTH BOLTS SHALL CONFORM TO THE PROVISIONS OF THE "SPECIFICATION FOR STRUCTURAL JOINTS USING A.S.T.M. A325 OR A490 BOLTS" APPROVED BY THE RESEARCH COUNCIL ON STRUCTURAL CONNECTIONS OF THE ENGINEERING FOUNDATION (RCSC). SPECIAL INSPECTION OF HIGH-STRENGTH BOLT CONNECTIONS IS REQUIRED.

7. HOLES FOR BOLTS IN STEEL SHALL BE OF SAME DIAMETER AS BOLT +1/16" MAXIMUM.

8. ALL WELDING SHALL CONFORM TO THE AMERICAN WELDING SOCIETY'S SPECIFICATION FOR THE MATERIAL BEING WELDED (AWS D1.1/D1.1M - D1.8/D1.8M). SEE STRUCTURAL WELDING SPECIFICATION UFGS 05 05 23.16.

9. ALL WELDING SHALL BE SHIELDED ARC TYPE AND SHALL BE PERFORMED BY A CERTIFIED WELDER IN A FABRICATION SHOP REGISTERED AND APPROVED IN ACCORDANCE WITH NOTE 1 ABOVE. CONTINUOUS INSPECTION IS REQUIRED OF ALL FIELD WELDING IN ACCORDANCE WITH AWS D1.1.

10. WELDING EQUIPMENT SHALL BE CHECKED PRIOR TO WELDING AS REQUIRED BY AISC 360-16 TABLE N5.4-1.

11. PRE-INSTALLATION VERIFICATION TESTING BY INSTALLATION PERSONNEL OBSERVED AND DOCUMENTED FOR FASTENER ASSEMBLIES AND METHODS USED SHALL BE PERFORMED AS REQUIRED BY AISC 360-16 TABLE N5.6-1.

12. TEMPORARY BRACING AND SHORING SHALL BE PROVIDED AS REQUIRED FOR ERECTION AND SAFETY. THESE BRACING AND SHORING MEMBERS SHALL NOT BE REMOVED UNTIL ALL BOLTING AND WELDING IS COMPLETED.

13. ALL STRUCTURAL STEEL WORK, EXCEPT THAT STEEL TO BE EMBEDDED IN CONCRETE, SHALL BE SHOP PAINTED PER SPEC SECTION 09900 PAINTING, AND TOUCHED UP IN THE FIELD AFTER ERECTION. ALL OTHER STEEL SHALL BE GALVANIZED.

14. BOLT JOINT TYPES SHALL BE SNUG-TIGHT PER AISC SPECIFICATIONS UNLESS NOTED OTHERWISE. LOCATION OF SLIP-CRITICAL JOINTS PER PLANS.

15. STRUCTURAL STEEL CONSTRUCTION AND DETAILS SHALL CONFORM TO AISC MANUAL OF STEEL CONSTRUCTION LOAD AND RESISTANCE FACTOR DESIGN (LRFD) 15TH EDITION.

16. NO STRUCTURAL STEEL MEMBER SHALL BE CUT FOR PIPES, DUCTS, ETC. UNLESS SPECIFICALLY DETAILED AND APPROVED BY STRUCTURAL ENGINEER.

17. ALL STEEL EXPOSED TO WEATHER SHALL BE HOT-DIPPED GALVANIZED IN ACCORDANCE WITH ASTM A123, AS APPLICABLE. REPAIR OF DAMAGED GALVANIZED COATING SHALL BE IN ACCORDANCE WITH ASTM A780. ALL OTHER NON-STAINLESS STEEL SHALL BE COATED WITH TWO COATS OF SHOP APPLIED PRIMER.

18. WELDING OF SEISMIC FORCE RESISTING SYSTEMS - IN ADDITION TO THE GENERAL WELDING REQUIREMENTS, THE FOLLOWING REQUIREMENTS APPLY TO WELDS USED IN MEMBERS AND CONNECTIONS WHICH ARE PART OF A SEISMIC FORCE RESISTING SYSTEM AS IDENTIFIED IN THE DRAWINGS. WELDING SHALL CONFORM TO AWS D1.8 "STRUCTURAL WELDING CODE - SEISMIC SUPPLEMENT." WELDING SHALL BE PERFORMED IN ACCORDANCE WITH A WELDING PROCEDURE SPECIFICATION AS REQUIRED IN AWS D1.1 AND AWS D1.8 AND SHALL BE APPROVED BY THE REGISTERED DESIGN PROFESSIONAL IN RESPONSIBLE CHARGE. WELDS SHALL BE MADE WITH A FILLER MEETING THE REQUIREMENTS SPECIFIED IN CLAUSE 6.3 OF AWS D1.8.

19. WELDS SPECIFIED AS "DEMAND CRITICAL" (DC) ON THE DRAWINGS SHALL BE MADE WITH A FILLER METAL MEETING THE REQUIREMENTS SPECIFIED IN CLAUSE 6.3 OF AWS D1.8.

STAINLESS STEEL NOTES

1. STAINLESS STEEL CONSTRUCTION SHALL CONFORM TO THE SPECIFICATIONS AND STANDARDS AS CONTAINED IN THE 15TH EDITION OF THE AISC MANUAL OF STEEL CONSTRUCTION IN CONJUNCTION WITH AISC DESIGN GUIDE 27.

2. STRUCTURAL SHAPES, BARS, AND PLATES INDICATED ON THE DRAWINGS SHALL BE STAINLESS STEEL TYPE 304 OR 316 AS INDICATED ON THE DRAWINGS. WHERE SHAPES, BARS OR PLATES WILL BE WELDED, THE MATERIAL SHALL BE TYPE 304 OR 316L AS INDICATED ON THE DRAWINGS.

3. PLATE, SHEET AND STRIP SHALL BE ASTM A240. BARS AND SHAPES SHALL BE ASTM A276. HOLLOW STRUCTURAL SECTIONSSHALL BE ASTM A554.

4. BOLTS AND OTHER FASTENERS SHALL BE STAINLESS STEEL TYPE 316. STAINLESS STEEL BOLTS AND THREADED ROD SHALL CONFORM TO ASTM F593 ALLOY GROUP 2 CONDITION CW. STAINLESS STEEL NUTS SHALL CONFORM TO ASTM F594 ALLOY GROUP 2 CONDITION CW. STAINLESS STEEL WASHERS SHALL BE STAINLESS STEEL TYPE 316 MEETING THE DIMENSIONAL REQUIREMENTS OF ASTM F436.

5. WELDING SHALL CONFORM TO AWS D1.6 STRUCTURAL WELDING CODE FOR STAINLESS STEEL. WELDING SHALL BE CONDUCTED BY WELDERS CERTIFIED BY THE AWS. WELD FILLER MATERIAL SHALL BE PREQUALIFIED FILLER METAL PER AWS D1.6.

6. STAINLESS STEEL SHALL CONFORM TO A.S.T.M. A276/A.I.S.I. 316. STAINLESS STEEL BOLTS SHALL CONFORM TO A.S.T.M. F593. STAINLESS STEEL NUTS SHALL CONFORM TO A.S.T.M. F594. DO NOT COAT STAINLESS STEEL.

STEEL DECK NOTES

1. REFER TO STEEL DECK SPECIFICATIONS FOR ADDITIONAL INFORMATION.

2. DECK ERECTION CONTRACTOR SHALL CUT DECK TO SUIT DETAILS AT ALL FRAMED OPENINGS AS INDICATED ON THE DRAWINGS.

3. THE OPENINGS SHOWN ON THE FRAMING PLANS INDICATE THE GENERAL ARRANGEMENT AND LOCATION ONLY. VERIFY OUTING LENGTH OF DECK WITH ELECTRICAL AND MECHANICAL DRAWINGS.

4. ALL WELDERS SHALL BE CERTIFIED FOR LIGHT GAGE STEEL WELDING IN THE CITY. ALL FIELD WELDING SHALL BE PERFORMED IN THE PRESENCE OF THE WELDING SPECIAL INSPECTOR.

5. CONTINUOUS INSPECTION BY A DEPUTY INSPECTOR IS REQUIRED OF THE WELDING.

6. THE EFFECTIVE AREA OF A 3/4" PLUG WELD SHALL NOT BE LESS THAN 1/2"Ø

7. ALL LIGHT GAGE STEEL DECKING AND FLASHING SHALL BE FABRICATED OF SHEET METAL CONFORMING TO A.S.T.M. A-446.

8. DECKING SHALL BE GALVANIZED PER COATING DESIGNATION G60 IN ACCORDANCE WITH ASTM A653, UNLESS NOTED OTHERWISE.

9. EDGE OF PERIMETER CLOSURE SHALL BE HELD WITHIN ±1/2" OF THE DIMENSIONS REQUIRED ON THE ARCHITECTURAL DRAWINGS. CONFIRM THE LOCATION OF THE BEAM AND COLUMN CENTER LINES FROM FIXED REFERENCE EDGE LINES.

10. MINIMUM DECK SECTION PROPERTIES SHALL BE AS FOLLOWS:

EAST RESTROOM BUILDING

GAUGE	DEPTH	I (IN^4)	+S(IN^3)	-S(IN^3)
16	2"	0.708	0.623	0.638

EAST RESTROOM BUILDING

GAUGE	DEPTH	I (IN^4)	+S(IN^3)	-S(IN^3)
16	2"	0.708	0.623	0.638

EAST BUILDINGS ROOF BRIDGE

GAUGE	DEPTH	I (IN^4)	+S(IN^3)	-S(IN^3)
20	1-1/2"	0.219	0.230	0.237

WEST RESTROOM BUILDING

GAUGE	DEPTH	I (IN^4)	+S(IN^3)	-S(IN^3)
16	1-1/2"	0.381	0.399	0.410

WEST CAFE BUILDING

GAUGE	DEPTH	I (IN^4)	+S(IN^3)	-S(IN^3)
16	2"	0.708	0.623	0.638

ADHESIVE ANCHORS

18. ADHESIVE ANCHORS SHALL BE "HIT HY-200" ADHESIVE ANCHORS, MANUFACTURED BY HILTI, INC. OR APPROVED EQUAL, ASTM DESIGNATION F1554 GR. 36, U.N.O. FOR CONCRETE APPLICATIONS.

19. ANCHORS SHALL BE INSTALLED IN ACCORDANCE WITH ICC-ES EVALUATION REPORT NO. 3187 FOR HILTI HY-200, AND ICC-ES EVALUATION REPORT NO. 2508 FOR SIMPSON SET-XP.

20. SPECIAL INSPECTION PER CHAPTER 1705.3 OF THE L.A.B.C. SHALL BE PROVIDED DURING ANCHOR INSTALLATION.

21. AN ALTERNATIVE ADHESIVE ANCHOR PRODUCT MAY BE SUBMITTED TO THE ENGINEER FOR APPROVAL, PROVIDED THAT IT HAS A CURRENT ICC-ES EVALUATION REPORT APPROVAL.

22. ALL ABANDONED HOLES SHALL BE FILLED WITH A DRYPACK GROUT A MINIMUM 28-DAY COMPRESSIVE STRENGTH OF 5,000 PSI. THE FILLED HOLE(S) SHALL BE PREPARED AND CLEANED AS REQUIRED BY THE GROUT MANUFACTURER.

23. LOCATE EXISTING REINFORCING USING A NON-DESTRUCTIVE METHOD (PACHOMETER OR OTHER PRIOR TO STEEL FABRICATION OF THE AFFECTED COMPONENTS AND PRIOR TO DRILLING HOLES FOR ANCHORS. MAINTAIN A MINIMUM CLEARANCE OF 1" BETWEEN THE REINFORCEMENT AND THE ANCHOR. NOTIFY ENGINEER IF ADHESIVE ANCHORS CANNOT BE INSTALLED DUE TO REBAR INTERFERENCE(S) SO STRUCTURAL STEEL DETAILING SHOWN HEREON CAN BE MODIFIED TO ACCOMMODATE.

REVISION DATES (DESIGN STAGE ONLY)

Sheet Version 3.0

PLANS PREPARED BY:
TETRA TECH, INC.
707 WILSHIRE BLVD, 23RD FLR.
LOS ANGELES, CA 90017
PHONE: (213) 239-8866

CITY OF LOS ANGELES — DEPARTMENT OF PUBLIC WORKS — BUREAU OF ENGINEERING

VERT. CONTROL: BM 12-04070, 1929 (NGVD29) - 1985 ADJUSTMENT
HORIZ. CONTROL: GPS; PID AE 1704, EPOCH 1991.35

SHEET TITLE: STRUCTURAL GENERAL NOTES
PROJECT: SIXTH STREET PARK, ARTS AND RIVER CONNECTIVITY IMPROVEMENTS (PARC)
ADDRESS: SIXTH STREET OVER THE LOS ANGELES RIVER

GARY LEE MOORE, P.E., ENV SP — CITY ENGINEER — DATE:
DESIGN GROUP
ENGINEER: MICHAEL OLSEN — LIC NO.
DESIGNED BY: JUSTIN SMITH
DRAWN BY: XXXX
CHECKED BY: NATE SCHREINER
APPROVED BY: JASON L FUSSEL

THIS PLAN WAS ELECTRONICALLY SIGNED AND STAMPED

REGISTERED PROFESSIONAL ENGINEER — MICHAEL S. OLSEN — No. 81944 — CIVIL — STATE OF CALIFORNIA

NO. | REVISIONS: | DATE | BY:

INDEX NO.

BUILDING NO.

ENGINEERING — CITY OF LOS ANGELES

WORK ORDER NO. E700235D
FILE NO. –
DRAWING NO. S-001
SHEET 230 OF 295 SHEETS

BID SET - NOT FOR CONSTRUCTION

DESIGN CRITERIA

DESIGN CODES AND REFERENCES:
- CITY OF LOS ANGELES BUILDING CODE, 2020 EDITION
- CALIFORNIA BUILDING CODE, 2019 EDITION
- ASCE 7-16 MINIMUM DESIGN LOADS FOR BUILDINGS AND OTHER STRUCTURES
- AISC MANUAL OF STEEL CONSTRUCTION, LRFD 15TH EDITION
- AISC 341-16 SEISMIC PROVISIONS FOR STRUCTURAL STEEL BUILDINGS
- AISC 358-16 PREQUALIFIED CONNECTIONS FOR SPECIAL AND INTERMEDIATE STEEL MOMENT FRAMES FOR SEISMIC APPLICATIONS
- ACI 318-14, BUILDING CODE REQUIREMENTS FOR STRUCTURAL CONCRETE
- NATIONAL DESIGN SPECIFICATIONS (NDS) FOR WOOD CONSTRUCTION, 2015 EDITION

LIVE LOADS:
FLOOR LIVE LOAD = 100 PSF (LOBBY OFFICE BUILDING)
CALTRANS H-20 TRUCK (TUNNEL AND RETAINING WALLS)
ROOF LIVE LOAD = 20 PSF (ORDINARY FLAT ROOF)
CALTRANS H-20 TRUCK (TUNNEL AND RETAINING WALLS)
40 PSF (EAST BUILDINGS ROOF BRIDGE STRUCTURE)

SEISMIC DESIGN PARAMETERS:
LOCATION: LAT. 34.03851°, LONG. -118.22804°
OCCUPANCY CATEGORY: II
SITE CLASS: D
SEISMIC DESIGN CATEGORY: D

Fa = 1.0 Fv = 1.7
Ss = 1.930g S1 = 0.688g
SDs = 1.287g SD1 = 0.780g

EAST BUILDINGS:
ANALYSIS PROCEDURE USED: EQUIVALENT LATERAL FORCE PROCEDURE
SEISMIC FORCE RESISTING SYSTEM: SPECIAL REINFORCED CONCRETE SHEAR WALLS AND SPECIAL MOMENT FRAMES (ASCE 7-16, TABLE 12.2-1)
RISK CATEGORY: II
Ie = 1.0
R = 5
Cs = 0.257
DESIGN BASE SHEAR = 0.257*W

EAST BUILDINGS ROOF BRIDGE STRUCTURE:
ANALYSIS PROCEDURE USED: MODAL ANALYSIS
ALL OTHER SELF-SUPPORTING STRUCTURES
RISK CATEGORY: II
Ie = 1.0
R = 1.25
ap = 2.50
Fp = 3.1 PSF

EAST BUILDINGS EXTERIOR CONCRETE SELF-SUPPORTING CURTAIN WALL:
ANALYSIS PROCEDURE USED: EQUIVALENT LATERAL FORCE PROCEDURE
ALL OTHER SELF-SUPPORTING STRUCTURES
RISK CATEGORY: II
Ie = 1.0
R = 1.25
Cs = 1.03

WEST BUILDING:
ANALYSIS PROCEDURE USED: EQUIVALENT LATERAL FORCE PROCEDURE
SEISMIC FORCE RESISTING SYSTEM: SPECIAL REINFORCED CONCRETE SHEAR WALL
RISK CATEGORY: II
Ie = 1.0
R = 5
Cs = 0.257
DESIGN BASE SHEAR = 0.257*W

CAFE BUILDING:
ANALYSIS PROCEDURE USED: EQUIVALENT LATERAL FORCE PROCEDURE
SEISMIC FORCE RESISTING SYSTEM: SPECIAL CANTILEVER COLUMN SYSTEM
RISK CATEGORY: II
Ie = 1.0
R = 2.5
Cs = 0.515
DESIGN BASE SHEAR = 0.515*W

TUNNEL AND RETAINING WALL:
ALL OTHER SELF-SUPPORTING STRUCTURES
RISK CATEGORY: II
Ie = 1.0
R = 1.25

WIND LOAD DESIGN PARAMETERS:
EAST BUILDINGS
NOMINAL DESIGN WIND SPEED: 95 MPH
RISK CATEGORY: II
EXPOSURE CATEGORY: C
INTERNAL PRESSURE COEFFICIENT: ±0.18

EAST BUILDINGS ROOF BRIDGE STRUCTURE
NOMINAL DESIGN WIND SPEED: 95 MPH
RISK CATEGORY: II
EXPOSURE CATEGORY: C
COMBINED PRESSURE COEFFICIENT: +1.9 / -1.5

EAST BUILDINGS EXTERIOR CONCRETE CURTAIN WALL
NOMINAL DESIGN WIND SPEED: 95 MPH
RISK CATEGORY: II
EXPOSURE CATEGORY: C
NET FORCE COEFFICIENT: 1.4

WEST BUILDING
NOMINAL DESIGN WIND SPEED: 95 MPH
RISK CATEGORY: II
EXPOSURE CATEGORY: C
INTERNAL PRESSURE COEFFICIENT: ±0.18

CAFE BUILDING
NOMINAL DESIGN WIND SPEED: 95 MPH
RISK CATEGORY: II
EXPOSURE CATEGORY: C
INTERNAL PRESSURE COEFFICIENT: ±0.18

SOIL DESIGN PARAMETERS:
RETAINING WALL AND U-WALL FOUNDATIONS
ALLOWABLE SOIL BEARING = 3200 PSF (1/3 INCREASE FOR TRANSIENT LOADING)
PASSIVE SOIL PRESSURE = 350 PSF/FT AT LEVEL BACKFILL (3500 PCF MAX. @ 10'-0" DEPTH)
FRICTION COEFFICIENT = 0.39 BETWEEN WALL FOOTING AND UNDERLYING SOIL
LATERAL EARTH PRESSURE
ACTIVE (LEVEL BACKFILL) = 40 PSF/FT (DRAINED)
AT-REST (LEVEL BACKFILL) = 60 PSF/FT (DRAINED)
CONSTRUCTION LIVE LOAD = 120 PSF (UNIFORM LOADING)
SEISMIC LOAD = 13.5 PSF/FT (INVERTED TRIANGULAR LOADING)

MAT FOUNDATIONS (ALL BUILDING STRUCTURES)
ALLOWABLE SOIL BEARING = 1500 PSF (1/3 INCREASE FOR TRANSIENT LOADING)
PASSIVE SOIL PRESSURE = 350 PSF/FT AT LEVEL BACKFILL
FRICTION COEFFICIENT = 0.35 BETWEEN WALL FOOTING AND UNDERLYING SOIL

COUNTY OF L.A. STRUCTURAL NOTES:

1. THE USE OF ROLLED STEEL SECTIONS AND/OR BOLTS MANUFACTURED OUTSIDE THE UNITED STATES WILL REQUIRE VERIFICATION THAT THE PRODUCTS COMPLY WITH APPLICABLE ASTM STANDARDS. MILL CERTIFICATES WILL BE REQUIRED FOR ALL STEEL. STEEL GRADES OTHER THAN ASTM A36 WILL REQUIRE TESTING BY AN APPROVED LABORATORY. ALL FOREIGN BOLTS MUST BE APPROVED BY L.A. COUNTY BUILDING AND SAFETY PRIOR TO THEIR USE.
2. SPECIAL INSPECTION BY A LOS ANGELES COUNTY REGISTERED DEPUTY INSPECTOR IS REQUIRED FOR FIELD WELDING, CONCRETE STRENGTH GREATER THAN 2500 PSI, HIGH STRENGTH BOLTING, SPRAYED-ON FIREPROOFING, HIGH-STRENGTH MASONRY, HIGH-LIFT GROUTING, PRESTRESSED CONCRETE, AND SPECIAL MOMENT RESISTING CONCRETE FRAMES.
3. THE PERIMETER WALLS ARE NOT TO BE BACKFILLED UNTIL THE FLOOR SLABS ARE POURED AND CURED.
4. A COMPACTION REPORT SHALL BE SUBMITTED TO THE COUNTY BUILDING INSPECTOR PRIOR TO FOOTING INSPECTION.

EXISTING UNDERGROUND UTILITY NOTES:

1. THE CIVIL AND STRUCTURAL ENGINEERS ARE NOT RESPONSIBLE FOR THE LOCATIONS OF EXISTING UNDERGROUND UTILITIES WHETHER OR NOT SHOWN ON THE DRAWINGS. THE LOCATION OF ANY EXISTING UNDERGROUND UTILITIES SHOWN ON THE DRAWINGS ARE APPROXIMATE. THE CONTRACTOR SHALL IMMEDIATELY NOTIFY THE OWNER SHOULD ANY SUCH UNIDENTIFIED CONDITIONS BE DISCOVERED.
2. THE CONTRACTOR SHALL BE RESPONSIBLE FOR ANY DAMAGES WHICH MAY RESULT FROM HIS FAILURE TO EXACTLY LOCATE AND PRESERVE ALL EXISTING UNDERGROUND UTILITIES.

ADDITIONAL NOTES PER LADBS:

1. CONTRACTOR IS RESPONSIBLE FOR THE CONSTRUCTION OF A WIND OR SEISMIC FORCE RESISTING SYSTEM/COMPONENT LISTED IN THE "STATEMENT OF SPECIAL INSPECTION" SHALL SUBMIT A WRITTEN STATEMENT OF RESPONSIBILITY TO THE LADBS INSPECTORS AND THE OWNER PRIOR TO THE COMMENCEMENT OF WORK ON SUCH SYSTEM OR COMPONENT PER SEC 1709.1.
2. CONTINUOUS SPECIAL INSPECTION BY A REGISTERED DEPUTY INSPECTOR IS REQUIRED FOR FIELD WELDING, CONCRETE STRENGTH F'C > 2500 PSI, HIGH STRENGTH BOLTING.
3. A COPY OF THE LOS ANGELES RESEARCH REPORT AND/OR CONDITIONS OF LISTING SHALL BE MADE AVAILABLE AT THE JOB SITE.
4. NUTS OF THE PRIMARY AND SECONDARY ANCHORS FASTENERS SHALL BE FINGER TIGHT WITH 1/2 WRENCH TURN PRIOR TO INSPECTION AND COVERING.
5. EXTERIOR ANCHOR BOLTS AND POST BASES SHALL BE GALVANIZED AND EACH ANCHOR BOLT SHALL HAVE AT LEAST TWO GALVANIZED NUTS ABOVE THE BASE PLATE.
6. ALL MAIN FOOTING REINFORCEMENT STEEL SHALL BE BENT INTO THE INTERSECTING FOOTING AND FULLY DEVELOPED AROUND EACH CORNER AND INTERSECTION.
7. CONTINUOUS INSPECTION BY A LOS ANGELES CITY LICENSED DEPUTY INSPECTOR IS REQUIRED FOR ALL STRUCTURAL CONNECTIONS, FOOTINGS, GRADE BEAMS AND RETAINING WALLS DURING INSTALLATION.
8. STRUCTURAL OBSERVATION BY THE ENGINEER OR ARCHITECT OF RECORD IS REQUIRED IN ACCORDANCE WITH LA INFORMATION BULLETIN P/BC 2008-024. COMPLETE ATTACHED FORM.
9. FIELD WELDING TO BE DONE BY WELDERS CERTIFIED BY LADBS FOR STRUCTURAL STEEL, REINFORCING STEEL & LIGHT GAUGE STEEL. CONTINUOUS INSPECTION BY A DEPUTY INSPECTOR IS REQUIRED.
10. SHOP WELDS MUST BE PERFORMED IN A LICENSED LADBS FABRICATOR'S SHOP.
11. LADBS LICENSED FABRICATOR IS REQUIRED FOR STRUCTURAL STEEL.
12. ALL BOLT HOLES SHALL BE DRILLED 1/32" TO 1/16" OVERSIZED.

SHORING AND EXCAVATION NOTES:

1. THE CONTRACTOR SHALL PROVIDE FOR THE DESIGN, APPROVALS, PERMITS, INSTALLATION AND MONITORING OF ALL TEMPORARY SHORING AND BRACING AS REQUIRED TO SUPPORT EXISTING FRAMING WHERE SUPPORT ELEMENTS (BEAMS, COLUMNS, AND BEARING WALLS / RETAINING WALLS) ARE TO BE REMOVED.
2. ALL WORK SHALL BE PERFORMED IN ACCORDANCE WITH THE LATEST EDITION OF THE CALIFORNIA CONSTRUCTION SAFETY ORDERS (CAL-OSHA).
3. TEMPORARY CUTS SHALL NOT EXCEED SLOPES RECOMMENDED IN THE SOIL REPORT, NOR THOSE SHOWN ON THE SHORING DRAWINGS FOR CONSTRUCTION OF FOUNDATIONS.
4. THE INSTALLATION OF SHORING AND EXCAVATIONS SHALL BE PERFORMED UNDER THE CONTINUOUS INSPECTION AND APPROVAL OF THE GEOTECHNICAL ENGINEER.
5. THE DESIGN OF THE SHORING SYSTEM SHALL BE BASED UPON RECOMMENDATIONS CONTAINED IN THE SOIL REPORT. THE SHORING CONTRACTOR SHALL FAMILIARIZE THEMSELVES WITH ALL DATA THEREIN AND SHALL KEEP A COPY OF THE REPORT AT THE JOB SITE AT ALL TIMES.

STRUCTURAL ABBREVIATIONS

A.B.	ANCHOR BOLT
A.C.I.	AMERICAN CONCRETE INSTITUTION
A.I.S.C.	AMERICAN INSTITUTE OF STEEL CONSTRUCTION
A.N.S.I.	AMERICAN NATIONAL STANDARDS INSTITUTE
ARCH.	ARCHITECT
A.S.T.M.	AMERICAN SOCIETY FOR TESTING AND MATERIALS
A.W.S.	AMERICAN WELDING SOCIETY
BLDG	BUILDING
BTM.	BOTTOM
B.O.C.	BOTTOM OF CEILING
B.O.R.	BOTTOM OF ROOF
C.B.C.	CALIFORNIA BUILDING CODE
CIDH	CAST-IN-DRILLED HOLE PILE
C/J	CONSTRUCTION JOINT
CLR.	CLEAR
CMU	CONCRETE MASONRY UNIT
CONC.	CONCRETE
CONST.	CONSTRUCTION
CONT.	CONTINUOUS
C.R.S.I.	CONCRETE REINFORCING STEEL INSTITUTE
DIA.	DIAMETER
DTL	DETAIL
(E)	EXISTING
EA.	EACH
E.F.	EACH FACE
EL.	ELEVATION
ELEV.	ELEVATION
EQ.	EQUAL
E.W.	EACH WAY
EXIST.	EXISTING
FDN.	FOUNDATION
F.F.	FINISH FLOOR
F.G.	FINISH GRADE
GA.	GAUGE
GALV.	GALVANIZED
G.C.	GENERAL CONTRACTOR
GEN.	GENERAL
H	HIGH
HORIZ.	HORIZONTAL
HSS	HOLLOW STEEL SECTION
HT.	HEIGHT
I	MOMENT OF INERTIA
IBC	INTERNATIONAL BUILDING CODE
ICC	INTERNATIONAL CODE COUNCIL
I.J.	ISOLATION JOINT
IN	INCH
INV	INVERT
K	KIPS
KSI	KIPS PER SQUARE INCH
LABC	CITY OF LOS ANGELES BUILDING CODE
L.A.C.B.C.	LOS ANGELES COUNTY BUILDING CODE
LADWP	LOS ANGELES DEPARTMENT OF WATER AND POWER
L_d	DEVELOPMENT LENGTH
MAX.	MAXIMUM
MECH.	MECHANICAL
MFR.	MANUFACTURER
MIN.	MINIMUM
M.O.	MASONRY OPENING
No.	NUMBER
N.T.S.	NOT TO SCALE
O.C.	ON CENTER
PCF	POUNDS PER CUBIC FOOT
PSF	POUNDS PER SQUARE FOOT
PSI	POUNDS PER SQUARE INCH
PT.	POINT
REINF.	REINFORCING
REQ'D.	REQUIRED
S	SECTION MODULUS
SF	SQUARE FEET
SIM.	SIMILAR
SPECS.	SPECIFICATIONS
S.M.S.	SHEET METAL SCREW
SQ.	SQUARE
S.S.	STAINLESS STEEL
STRUCT.	STRUCTURAL
T&B	TOP & BOTTOM
T.O.	TOP OF
T.O.F.	TOP OF FOOTING
T.O.R.	TOP OF ROOF
T.O.S.	TOP OF STEEL
T.O.W.	TOP OF WALL
TYP.	TYPICAL
U.N.O.	UNLESS NOTED OTHERWISE
VERT.	VERTICAL
W	WIDE
W.S.	WATERSTOP
w/	WITH
WF	WIDE FLANGE
@	AT
&	AND
#	NUMBER

PLANS PREPARED BY:
TETRA TECH, INC.
707 WILSHIRE BLVD, 23RD FLR.
LOS ANGELES, CA 90017
PHONE: (213) 239-8866

CITY OF LOS ANGELES — DEPARTMENT OF PUBLIC WORKS — BUREAU OF ENGINEERING

VERT. CONTROL: BM 12-04070, 1929 (NGVD29) - 1985 ADJUSTMENT
HORIZ. CONTROL: GPS; PID AE 1704, EPOCH 1991.35

SHEET TITLE: STRUCTURAL GENERAL NOTES 2
PROJECT: SIXTH STREET PARK, ARTS AND RIVER CONNECTIVITY IMPROVEMENTS (PARC)
ADDRESS: SIXTH STREET OVER THE LOS ANGELES RIVER

GARY LEE MOORE, P.E., ENV SP — CITY ENGINEER — DATE:
DESIGN GROUP
ENGINEER: MICHAEL OLSEN — LIC. NO.
DESIGNED BY: JUSTIN SMITH
DRAWN BY: XXXX
CHECKED BY: NATE SCHREINER
APPROVED BY: JASON L. FUSSEL

THIS PLAN WAS ELECTRONICALLY SIGNED AND STAMPED.
REGISTERED PROFESSIONAL ENGINEER — MICHAEL S. O. OLSEN — No. 81944 — CIVIL — STATE OF CALIFORNIA

NO. | REVISIONS: | DATE: | BY:

INDEX NO.
BUILDING NO.

ENGINEERING — CITY OF LOS ANGELES

WORK ORDER NO. E700235D
FILE NO. –
DRAWING NO. S-002
SHEET 231 OF 295 SHEETS

REVISION DATES (DESIGN STAGE ONLY)

Sheet Version 3.0

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BID SET - NOT FOR CONSTRUCTION

SPECIAL INSPECTIONS REQUIRED

SPECIAL INSPECTIONS REQUIRED FOR THIS PROJECT SHALL BE PERFORMED IN ACCORDANCE WITH THE L.A.B.C.. SPECIAL INSPECTIONS SHALL BE PERFORMED BY AN APPROVED INSPECTION AGENCY U.N.O, EMPLOYED BY THE OWNER.

THE SPECIAL INSPECTOR SHALL BE CERTIFIED BY THE INTERNATIONAL CODE COUNCIL (I.C.C.) TO PERFORM INSPECTION FOR THE PARTICULAR TYPE OF CONSTRUCTION OR OPERATION REQUIRING SPECIAL INSPECTION PRIOR TO THE COMPLETION OF THAT PHASE OF THE WORK.

THE SPECIAL INSPECTOR SHALL FURNISH INSPECTION REPORTS TO THE BUILDING OFFICIAL AND/OR THE ENGINEER. ALL DISCREPANCIES SHALL BE BROUGHT TO THE IMMEDIATE ATTENTION OF THE CONTRACTOR FOR CORRECTION, THEN, IF UNCORRECTED, TO THE STRUCTURAL ENGINEER AND TO THE BUILDING OFFICIAL.

THE SPECIAL INSPECTOR SHALL SUBMIT A FINAL SIGNED REPORT STATING WHETHER THE WORK REQUIRING SPECIAL INSPECTION WAS, TO THE BEST OF THE INSPECTOR'S KNOWLEDGE, IN CONFORMANCE WITH THE APPROVED PLANS AND SPECIFICATIONS AND THE APPLICABLE WORKMANSHIP PROVISIONS OF THIS CODE.

IT SHALL BE THE CONTRACTOR'S SOLE RESPONSIBILITY TO PROVIDE AT LEAST 48 HOURS ADVANCE NOTICE TO THE OWNER/OWNER'S REPRESENTATIVE WHEN HIS WORK IS READY FOR ANY REQUIRED SPECIAL INSPECTIONS.

SHOP INSPECTION OF STEEL CONSTRUCTION IS NOT REQUIRED WHEN THE WORK IS DONE ON THE PREMISES OF A FABRICATOR REGISTERED AND APPROVED TO PERFORM SUCH WORK WITHOUT SPECIAL INSPECTION. APPROVAL SHALL BE BASED UPON REVIEW OF THE FABRICATOR'S WRITTEN PROCEDURAL AND QUALITY CONTROL MANUALS AND PERIODIC AUDITING OF FABRICATION PRACTICES BY AN APPROVED SPECIAL INSPECTION AGENCY. AT COMPLETION OF FABRICATION, THE APPROVED FABRICATOR SHALL SUBMIT A CERTIFICATE OF COMPLIANCE TO THE BUILDING OFFICIAL STATING THAT THE WORK WAS PERFORMED IN ACCORDANCE WITH THE APPROVED CONSTRUCTION DOCUMENTS.

CONTRACTOR RESPONSIBILITY

EACH CONTRACTOR RESPONSIBLE FOR THE CONSTRUCTION OF A MAIN WIND- OR SEISMIC-FORCE-RESISTING SYSTEM, DESIGNATED SEISMIC SYSTEM OR A WIND- OR SEISMIC-RESISTING COMPONENT LISTED IN THE STATEMENT OF SPECIAL INSPECTIONS SHALL SUBMIT A WRITTEN STATEMENT OF RESPONSIBILITY TO THE BUILDING OFFICIAL AND THE OWNER PRIOR TO THE COMMENCEMENT OF WORK ON THE SYSTEM OR COMPONENT. THE CONTRACTOR'S STATEMENT OF RESPONSIBILITY SHALL CONTAIN ACKNOWLEDGMENT OF AWARENESS OF THE SPECIAL REQUIREMENTS CONTAINED IN THE STATEMENT OF SPECIAL INSPECTION.

OWNER OR OWNER'S REPRESENTATIVE SHALL BE SYNONYMOUS WITH 'BUILDING OFFICIAL' IN THE FOREGOING IF THE PROJECT IS NOT UNDER THE JURISDICTION OF A BUILDING DEPARTMENT

SPECIAL INSPECTION SHALL BE PROVIDED FOR THE FOLLOWING TYPES OF WORK PERFORMED IN THE FIELD, OR NOT PERFORMED IN AN APPROVED FABRICATION SHOP AS DEFINED ABOVE, UNLESS NOTED AS "N/A".

SPECIAL INSPECTIONS REQUIRED (■ YES □ NO)

	CONT	PERIODIC	N/A
REQUIRED VERIFICATION AND INSPECTION OF SOILS (TO BE PERFORMED BY A LICENSED GEOTECHNICAL ENGINEER):			
1. VERIFY MATERIALS BELOW SHALLOW FOUNDATIONS ARE ADEQUATE TO ACHIEVE THE DESIGN BEARING CAPACITY	□	■	□
2. VERIFY EXCAVATIONS ARE EXTENDED TO PROPER DEPTH AND HAVE REACHED PROPER MATERIAL	■	□	□
3. PERFORM CLASSIFICATION AND TESTING OF COMPACTED FILL MATERIALS	□	■	□
4. PERFORM CLASSIFICATION AND TESTING OF NATIVE SOILS TO VERIFY ANY SOIL PROPERTIES ASSUMED AS PART OF DESIGN FOR THIS PROJECT (SEE SOIL PROPERTIES ON SHEETS S-001). THIS TESTING SHALL BE PERFORMED IN ADVANCE OF ANY CONSTRUCTION. THE STRUCTURAL ENGINEER SHALL BE NOTIFIED IF THE ASSUMED VALUES ARE NOT VALID.	□	■	□
5. VERIFY USE OF PROPER MATERIALS, DENSITIES AND LIFT THICKNESSES DURING PLACEMENT AND COMPACTION OF COMPACTED FILL	■	□	□
6. PRIOR TO PLACEMENT OF COMPACTED FILL, OBSERVE SUBGRADE AND VERIFY THAT SITE HAS BEEN PREPARED PROPERLY	□	■	□
CONCRETE CONSTRUCTION:			
1. INSPECTION OF REINFORCING STEEL, INCLUDING PRESTRESSING TENDONS, AND PLACEMENT	□	■	□
2. INSPECTION OF REINFORCING STEEL WELDING IN ACCORDANCE WITH C.B.C. TABLE 1705.2.2, ITEM 2B.	■	□	□
3. INSPECTION OF ANCHORS CAST IN CONCRETE	□	■	□
4. INSPECTION OF ANCHORS POST-INSTALLED IN HARDENED CONCRETE MEMBERS	□	■	□
5. VERIFYING USE OF REQUIRED DESIGN MIX	□	■	□
6. AT THE TIME FRESH CONCRETE IS SAMPLED TO FABRICATE SPECIMENS FOR STRENGTH TESTS, PERFORM SLUMP AND AIR CONTENT TEST, AND DETERMINE THE TEMPERATURE OF THE CONCRETE	■	□	□
7. INSPECTION OF CONCRETE AND SHOTCRETE PLACEMENT FOR PROPER APPLICATION TECHNIQUES	■	□	□
8. INSPECTION FOR MAINTENANCE OF SPECIFIED CURING TEMPERATURE AND TECHNIQUES	□	■	□
9. INSPECTION OF PRESTRESSED CONCRETE:			
A. APPLICATION OF PRESTRESSING FORCES	□	□	■
B. GROUTING OF BONDED PRESTRESSING TENDONS IN THE SEISMIC-FORCE-RESISTING SYSTEM	□	□	■
10. ERECTION OF PRECAST CONCRETE MEMBERS	□	□	■
11. VERIFICATION OF IN-SITU CONCRETE STRENGTH, PRIOR TO STRESSING OF TENDONS IN POST-TENSIONED CONCRETE AND PRIOR TO REMOVAL OF SHORES AND FORMS FROM BEAMS AND STRUCTURAL SLABS	□	■	□
12. INSPECT FORMWORK FOR SHAPE, LOCATION AND DIMENSIONS OF CONCRETE MEMBER BEING FORMED	□	■	□
13. INSPECTION OF CONCRETE OVER 2500 PSI	■	□	□

STEEL CONSTRUCTION (STRUCTURAL STEEL):
R - INSPECT THESE ITEMS ON A RANDOM BASIS. OPERATIONS NEED NOT BE DELAYED PENDING THESE INSPECTIONS
C - INSPECT THESE ITEMS ON A CONTINUOUS BASIS

	C	R	N/A
1. INSPECTION TASKS PRIOR TO WELDING			
A. WELDING PROCEDURE SPECIFICATIONS (WPSs) AVAILABLE	■	□	□
B. MANUFACTURERS CERTIFICATIONS FOR WELDING CONSUMABLES AVAILABLE	■	□	□
C. MATERIAL IDENTIFICATION (TYPE/GRADE)	□	■	□
D. WELDER IDENTIFICATION SYSTEM	□	■	□
E. FIT-UP OF GROOVE WELDS (INCLUDING GEOMETRY) - JOINT PREPARATION - DIMENSIONS (ALIGNMENT, ROOT OPENING, ROOT FACE, BEVEL) - CLEANLINESS (CONDITION OF STEEL SURFACES) - TACKING (TACK WELD QUALITY AND LOCATION) - BACKING TYPE AND FIT (IF APPLICABLE)	□	■	□
F. CONFIGURATION AND FINISH OF ACCESS HOLES	□	■	□
G. FIT-UP OF FILLET WELDS - DIMENSIONS (ALIGNMENT, GAPS AT ROOT) - CLEANLINESS (CONDITION OF STEEL SURFACES) - TACKING (TACK WELD QUALITY AND LOCATION)	□	■	□
2. INSPECTION TASKS DURING WELDING			
A. USE OF QUALIFIED WELDERS	□	■	□
B. CONTROL AND HANDLING OF WELDING CONSUMABLES - PACKAGING - EXPOSURE CONTROL	□	■	□
C. NO WELDING OVER CRACKED TACK WELDS	□	■	□
D. ENVIRONMENTAL CONDITIONS - WIND SPEED WITHIN LIMITS - PRECIPITATION AND TEMPERATURE	□	■	□
E. WPS FOLLOWED - SETTINGS ON WELDING EQUIPMENT - TRAVEL SPEED - SELECTED WELDING MATERIALS - SHIELDING GAS TYPE/FLOW RATE - PREHEAT APPLIED - INTERPASS TEMPERATURE MAINTAINED (MIN./MAX.) - PROPER POSITION (F, V, H, OH)	□	■	□
F. WELDING TECHNIQUES - INTERPASS AND FINAL CLEANING - EACH PASS WITHIN PROFILE LIMITATIONS - EACH PASS MEETS QUALITY REQUIREMENTS	□	■	□
3. INSPECTION TASKS AFTER WELDING			
A. WELDS CLEANED	□	■	□
B. SIZE, LENGTH AND LOCATION OF WELDS	■	□	□
C. WELDS MEET VISUAL ACCEPTANCE CRITERIA - CRACK PROHIBITION - WELD/BASE-METAL FUSION - CRATER CROSS SECTION - WELD PROFILES - WELD SIZE - UNDERCUT - POROSITY	■	□	□
D. ARC STRIKES	■	□	□
E. K-AREA - WHEN WELDING OF DOUBLER PLATES, CONTINUITY PLATES OR STIFFENERS HAS BEEN PERFORMED IN THE K-AREA, VISUALLY INSPECT THE WEB K-AREA FOR CRACKS WITHIN 3 IN. (75 MM) OF THE WELD	■	□	□
F. BACKING REMOVED AND WELD TABS REMOVED (IF REQUIRED)	■	□	□
G. REPAIR ACTIVITIES	■	□	□
H. DOCUMENT ACCEPTANCE OR REJECTION OF WELDED JOINT OR MEMBER	■	□	□
7. INSPECTION OF STEEL ELEMENTS OF COMPOSITE CONSTRUCTION PRIOR TO CONCRETE PLACEMENT			
A. PLACEMENT AND INSTALLATION OF STEEL DECK	□	□	■
B. PLACEMENT AND INSTALLATION OF STEEL HEADED STUD ANCHORS	□	■	□
C. DOCUMENT ACCEPTANCE OR REJECTION OF STEEL ELEMENTS	■	□	□

ADHESIVE ANCHORS:	CONT	PERIODIC	N/A
1. VERIFY ANCHOR TYPE:	□	■	□
2. VERIFY ADHESIVE IDENTIFICATION AND EXPIRATION DATE	□	■	□
3. VERIFY ANCHOR DIMENSIONS:	□	■	□
4. VERIFY CONCRETE TYPE:	□	■	□
5. VERIFY CONCRETE COMPRESSIVE STRENGTH	□	■	□
6. VERIFY HOLE DRILLING METHOD	□	■	□
7. VERIFY HOLE DIMENSIONS	□	■	□
8. VERIFY HOLE CLEANING PROCEDURES	□	■	□
9. VERIFY ANCHOR SPACING	□	■	□
10. VERIFY EDGE DISTANCES	□	■	□
11. VERIFY CONCRETE THICKNESS	□	■	□
12. VERIFY ANCHOR EMBEDMENT	□	■	□
13. VERIFY TIGHTENING TORQUE	□	■	□
14. VERIFY ADHERENCE TO THE MANUFACTURER'S PRINTED INSTALLATION INSTRUCTIONS	□	■	□

THE SPECIAL INSPECTOR MUST VERIFY THE INITIAL INSTALLATIONS OF EACH TYPE AND SIZE OF ADHESIVE ANCHOR INSTALLED BY THE CONSTRUCTION PERSONNEL ON SITE. SUBSEQUENT INSTALLATIONS OF THE SAME ANCHOR TYPE AND SIZE BY THE SAME CONSTRUCTION PERSONNEL MAY BE PERMITTED, WITH THE APPROVAL OF THE ENGINEER AND THE SPECIAL INSPECTOR, TO BE PERFORMED IN THE ABSENCE OF THE SPECIAL INSPECTOR. ANY CHANGE IN THE ANCHOR PRODUCT BEING INSTALLED OR THE PERSONNEL PERFORMING THE INSTALLATION REQUIRES AN INITIAL INSPECTION. FOR ONGOING INSTALLATIONS OVER AN EXTENDED PERIOD, THE SPECIAL INSPECTOR MUST MAKE REGULAR INSPECTIONS TO CONFIRM CORRECT HANDLING AND INSTALLATION OF THE PRODUCT. THE SPECIAL INSPECTOR SHALL INFORM THE ENGINEER OF THE FREQUENCY OF THE PERIODIC ANCHOR INSPECTIONS. THE ENGINEER MAY REQUEST ADDITIONAL INSPECTIONS AT ANY TIME.

SHOP DRAWINGS AND SUBMITTALS

1. REVIEW OF SHOP DRAWINGS AND SUBMITTALS BY THE EOR IS FOR GENERAL COMPLIANCE WITH THE CONTRACT DOCUMENTS.

2. SHOP DRAWINGS SHALL BE SUBMITTED TO EOR FOR REVIEW PRIOR TO FABRICATION. THE CONTRACTOR WILL REMAIN RESPONSIBLE FOR ALL ERRORS OF DETAILING, FABRICATION, AND FOR CORRECT FITTING OF ALL STRUCTURAL MEMBERS INCLUDING COORDINATION WITH OTHER TRADES.

A. SHOP DRAWINGS SHALL BE SUBMITTED A MINIMUM OF 4 WEEKS PRIOR TO SCHEDULED FABRICATION.

B. EOR WILL RETURN SHOP DRAWING AND SUBMITTALS CLEARLY MARKED WITH COMMENTS. ANY REQUIRED RECORD SET COPIES SHALL BE MADE FROM THIS RETURNED SET.

C. REPRODUCTION OF THE STRUCTURAL PLANS AND DETAILS FOR SHOP DRAWINGS IS PROHIBITED. SUBCONTRACTOR/FABRICATOR IS TO PROVIDE INDEPENDENTLY CREATED DRAWINGS BASED ON THE STRUCTURAL PLANS AND DETAILS.

D. THE CONTRACTOR SHALL UTILIZE THREE-DIMENSIONAL (3D) MODELING AND TWO-DIMENSIONAL (2D) MODELING WHEN DEVELOPING REINFORCING FABRICATION AND STRUCTURAL STEEL FABRICATION DRAWINGS FOR THE EAST PARK BUILDINGS AND BRIDGING ELEMENT, WEST RESTROOM BUILDING AND WEST CAFE BUILDING.

E. ANY PROPOSED CHANGES TO THE STRUCTURAL DOCUMENTS MUST BE SUBMITTED IN WRITING AS A REQUEST FOR SUBSTITUTION TO THE ARCHITECT AND EOR FOR APPROVAL.

3. THE FOLLOWING LIST SUMMARIZES IMPORTANT STRUCTURAL SUBMITTALS FOR THIS PROJECT. REFER TO THE SPECIFICATIONS FOR A COMPLETE LIST AND ADDITIONAL REQUIREMENTS.

CONCRETE REINFORCEMENT:
A. MANUFACTURER'S PRODUCT DATA, SPECIFICATIONS AND INSTALLATION PROCEDURES FOR PROPRIETARY MATERIALS AND REINFORCEMENT.
B. STEEL PRODUCER CERTIFICATES OF MILL ANALYSIS, TENSILE AND BEND TESTS.
C. SHOP DRAWINGS FOR FABRICATION BENDING AND PLACEMENT.

CAST-IN-PLACE CONCRETE:
A. DESIGN MIX FOR EACH CONCRETE MIX.
B. MATERIAL TEST REPORTS.
C. MATERIAL CERTIFICATES FOR CEMENT, AGGREGATES AND ADMIXTURES.
D. MANUFACTURER'S PRODUCT DATA FOR BONDING AGENTS, VAPOR RETARDERS, JOINT FILLER, CURING MATERIALS AND FLOOR.
E. TREATMENT SHOP DRAWINGS FOR PROPOSED LOCATIONS OF ADDITIONAL CONSTRUCTION OR CONTROL JOINTS NOT SHOWN ON THE STRUCTURAL PLANS.
F. MINUTES FROM PREINSTALLATION CONFERENCE.

REVISION DATES (DESIGN STAGE ONLY)

Sheet Version 3.0

PLANS PREPARED BY:
TETRA TECH, INC.
707 WILSHIRE BLVD. 23RD FLR.
LOS ANGELES, CA 90017
PHONE: (213) 239-8866

CITY OF LOS ANGELES — DEPARTMENT OF PUBLIC WORKS — BUREAU OF ENGINEERING

VERT. CONTROL: BM 12-04070, 1929 (NGVD29) - 1995 ADJUSTMENT
HORIZ. CONTROL: GPS; PID AE 1704, EPOCH 1991.35

SHEET TITLE: STRUCTURAL GENERAL NOTES 3
PROJECT: SIXTH STREET PARK, ARTS AND RIVER CONNECTIVITY IMPROVEMENTS (PARC)
ADDRESS: SIXTH STREET OVER THE LOS ANGELES RIVER

GARY LEE MOORE, P.E., ENV SP — CITY ENGINEER — DATE:
DESIGN GROUP
ENGINEER: MICHAEL OLSEN — LIC NO.
DESIGNED BY: JUSTIN SMITH
DRAWN BY: XXXX
CHECKED BY: NATE SCHREINER
APPROVED BY: JASON L. FUSSEL

THIS PLAN WAS ELECTRONICALLY SIGNED AND STAMPED

REGISTERED PROFESSIONAL ENGINEER — MICHAEL S. O. OLSEN — No. 81944 — CIVIL — STATE OF CALIFORNIA

NO. | REVISIONS | DATE | BY

INDEX NO.

BUILDING NO.

ENGINEERING — CITY OF LOS ANGELES

WORK ORDER NO. E700235D
FILE NO. –
DRAWING NO. S-003
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BID SET - NOT FOR CONSTRUCTION

LADBS STRUCTURAL OBSERVATION FORM:

LADBS — DEPARTMENT OF BUILDING AND SAFETY

Los Angeles Regional Uniform Code Program

STRUCTURAL OBSERVATION REPORT FORM

STRUCTURAL OBSERVATION *means the visual observation of the structural system, for general conformance to the approved plans and specifications, at significant construction stages and at completion of the structural system. Structural observation does not include or waive the responsibility for the inspections required by Section 108, 1704 or other sections of the code.*

Report No. ___________

This report includes all construction work through ______ day of _______________, 20____ Page No. ______ of ______

Project Address:		Structural Observer of Record (SOR):	Phone No. of SOR:
Building Permit No.:	Structural Observation performed by:	Professional Lic./Reg. No. of Observer:	Phone No. of Observer:

OBSERVED STRUCTURAL ELEMENTS AND THEIR CONNECTIONS

FOUNDATION	WALL	FRAME	FLOOR	ELEMENT/ CONNECTION OBSERVATION LOCATION
☐ Footing, Stem Walls, Piers	☐ Concrete	☐ Steel Moment Frame	☐ Concrete	
☐ Mat Foundation	☐ Modulus of Elasticity* Concrete Shear Walls	☐ Steel Braced Frame	☐ Steel Deck	
☐ Caisson, Piles, Grade Beams	☐ Masonry	☐ Concrete Moment Frame	☐ Wood	
☐ Retaining Foundation Hillside Special Anchors	☐ Wood	☐ Modulus of Elasticity* Seismic Moment Frames	☐ Others:	
☐ Others:	☐ Others:	☐ Others:		

* For concrete buildings more than 160 feet in Structural Height: Concrete mix meets the modulus of elasticity requirements in design for seismic force resisting systems.

NOTED DEFICIENCIES with the proposed corresponding corrective actions with respect to general conformance with the approved plans or in the load path: *(A final report by the structural observer which states that all observed deficiencies have been resolved is required before acceptance of the work by the building officials.)*

____

____

____

____

I DECLARE THAT THE FOLLOWING STATEMENTS ARE TRUE TO THE BEST OF MY KNOWLEDGE:

1. I AM THE ENGINEER OR ARCHITECT RETAINED BY THE OWNER TO BE IN RESPONSIBLE CHARGE FOR THE STRUCTURAL OBSERVATION IN ACCORDANCE WITH THE REQUIREMENTS OF THE CITY OF LOS ANGELES.
2. I, OR ANOTHER ENGINEER OR ARCHITECT WHO I HAVE DESIGNATED ABOVE AND IS UNDER MY RESPONSIBLE CHARGE, HAS PERFORMED THE REQUIRED SITE VISITS AT EACH SIGNIFICANT CONSTRUCTION STAGE TO VERIFY IF THE STRUCTURE IS IN GENERAL CONFORMANCE WITH APPROVED PLANS AND SPECIFICATIONS;
3. ALL NOTED DEFICIENCIES WHICH REMAIN TO BE CORRECTED HAVE BEEN INDICATED ABOVE;
4. I RECOMMEND THAT ACCEPTANCE OF THE STRUCTURAL SYSTEMS BY THE CITY OF LOS ANGELES BE WITHHELD UNTIL ALL OBSERVED DEFICIENCIES ARE CORRECTED.

SIGNATURE OF STRUCTURAL OBSERVER — DATE

STAMP OF STRUCTURAL OBSERVER

ReForm 08 (Part 1) (Rev. 08/16/17)

LADBS — DEPARTMENT OF BUILDING AND SAFETY

Los Angeles Regional Uniform Code Program

Committee I-3: Structural Observation

STRUCTURAL OBSERVATION PROGRAM
AND DESIGNATION OF THE
STRUCTURAL OBSERVER

PROJECT ADDRESS: ______________________ PERMIT APPL. NO.: __________

Description of Work: SIXTH STREET PARC PROJECT

Owner: ______________ Architect: ______________ Engineer: SIXTH STREET PARC PROJECT

STRUCTURAL OBSERVATION
(only checked items are required)

Firm or Individual to be responsible for the Structural Observation:

Name: ______________ Phone: ( ) ______________ Calif. Registration: ______________

FOUNDATION	WALL	FRAME	DIAPHRAGM
■ Footing, Stem Walls, Piers	■ Concrete	■ Steel Moment Frame	■ Concrete
■ Mat Foundation	☐ Masonry	☐ Steel Braced Frame	■ Steel Deck
☐ Caisson, Piles, Grade Beams	☐ Wood	☐ Concrete Moment Frame	☐ Wood
■ Step'g/Retain'g Foundation, Hillside Special Anchors	☐ Others:	☐ Others:	☐ Others:
☐ Others:			

DECLARATION BY OWNER

I, the Owner of the project, declare that the above listed firm or individual is hired **by me** to be the Structural Observer.

Signature — Date

DECLARATION BY ARCHITECT OR ENGINEER OF RECORD (required if the Structural Observer is different from the Architect or Engineer of Record)

I, the Architect or Engineer of record for the project, declare that the above listed firm or individual is designated by me to be responsible for the Structural Observation.

Signature — License No. — Date

ReForm 08 (Part 2) (Rev. 08/16/17)

STRUCTURAL OBSERVATION

THE STRUCTURAL ENGINEER, OR ANOTHER ENGINEER DESIGNATED BY THE STRUCTURAL ENGINEER SHALL BE RETAINED BY THE OWNER TO PERFORM STRUCTURAL OBSERVATION AS REQUIRED BY I.B.C. CHAPTER 17. STRUCTURAL OBSERVATION SHALL BE PROVIDED DURING THE STAGES OF CONSTRUCTION LISTED BELOW. IT SHALL BE THE SOLE RESPONSIBILITY OF THE CONTRACTOR TO PROVIDE AT LEAST 48 HOURS ADVANCE NOTICE TO THE STRUCTURAL ENGINEER WHEN HIS WORK IS READY FOR STRUCTURAL OBSERVATION FOR EACH OF THESE STAGES.

1. CONCRETE:
   REINFORCING STEEL AND EMBEDDED STRUCTURAL ANCHORAGES PRIOR TO PLACEMENT OF CONCRETE FOR THE FOLLOWING:

   A. FOUNDATIONS
   B. SLABS-ON-GRADE (EXCEPT SITE PAVING AND FLATWORK)
   C. WALLS
   D. STRUCTURAL FLOOR SLABS AND BEAMS NOT SUPPORTED ON-GRADE
   E. ROOF SLABS AND BEAMS

2. STRUCTURAL STEEL:
   A. ERECTED COLUMN, BEAMS AND GIRDERS, PRIOR TO INSTALLATION OF ROOF AND FLOOR JOISTS, TRUSSES AND DECKING

3. WOOD FRAMING:
   A. PLYWOOD ROOF, FLOOR AND WALL SHEATHING PRIOR TO INSTALLATION OF ROOFING AND ANY OTHER BUILDING MATERIALS THAT WOULD CONCEAL THE NAILING

PLANS PREPARED BY:
TETRA TECH, INC.
707 WILSHIRE BLVD, 23RD FLR.
LOS ANGELES, CA 90017
PHONE: (213) 239-8866

CITY OF LOS ANGELES — DEPARTMENT OF PUBLIC WORKS — BUREAU OF ENGINEERING

VERT. CONTROL: BM 12-04070, 1929 (NGVD29) • 1985 ADJUSTMENT
HORIZ. CONTROL: GPS; PID AE 1704, EPOCH 1991.35

SHEET TITLE: STRUCTURAL GENERAL NOTES 4

PROJECT: SIXTH STREET PARK, ARTS AND RIVER CONNECTIVITY IMPROVEMENTS (PARC)

ADDRESS: SIXTH STREET OVER THE LOS ANGELES RIVER

GARY LEE MOORE, P.E., ENV SP — CITY ENGINEER — DATE:
DESIGN GROUP
ENGINEER: MICHAEL OLSEN — LIC NO.
DESIGNED BY: JUSTIN SMITH
DRAWN BY: XXXX
CHECKED BY: NATE SCHREINER
APPROVED BY: JASON L. FUSSEL

THIS PLAN WAS ELECTRONICALLY SIGNED AND STAMPED

REGISTERED PROFESSIONAL ENGINEER — MICHAEL S. OLSEN — No. 81944 — CIVIL — STATE OF CALIFORNIA

NO. | REVISIONS: | DATE: | BY:

INDEX NO.

BUILDING NO.

ENGINEERING — CITY OF LOS ANGELES

WORK ORDER NO. E700235D
FILE NO. –
DRAWING NO. S-004
SHEET 233 OF 295 SHEETS

7/11/2022 2:13:27 PM - O:\PROJECTS\IRVINE\20043\200-20043-17001\CAD\SHEETFILES\S-004_STRUCTURAL OBSERVATION FORMS.DWG - BOEHMKE, BRETT

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REVISION DATES (DESIGN STAGE ONLY)

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EAST BLDGS CONCRETE INTERIOR WALL REINFORCING SCHEDULE

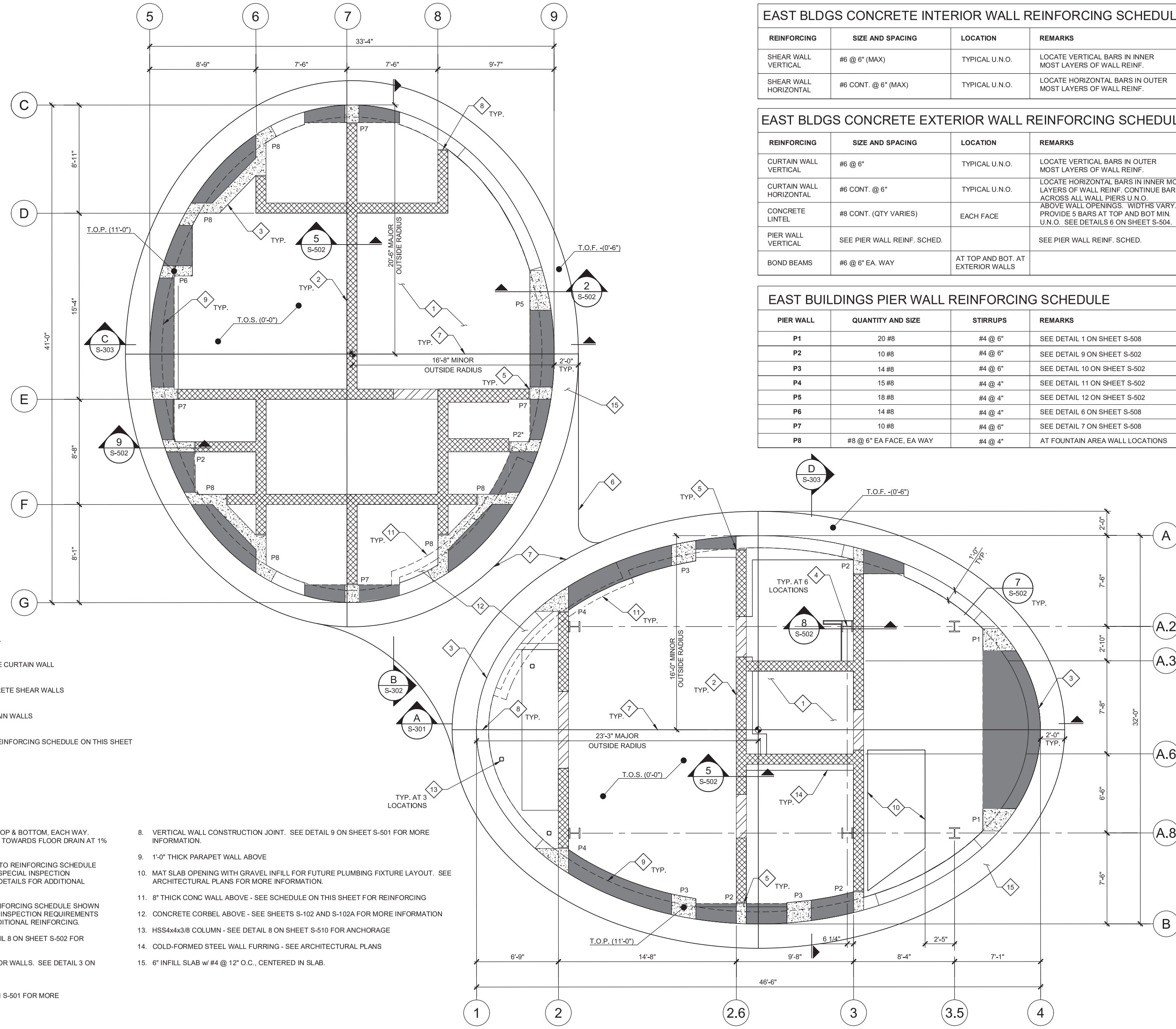
REINFORCING	SIZE AND SPACING	LOCATION	REMARKS
SHEAR WALL VERTICAL	#6 @ 6" (MAX)	TYPICAL U.N.O.	LOCATE VERTICAL BARS IN INNER MOST LAYERS OF WALL REINF.
SHEAR WALL HORIZONTAL	#6 CONT. @ 6" (MAX)	TYPICAL U.N.O.	LOCATE HORIZONTAL BARS IN OUTER MOST LAYERS OF WALL REINF.

EAST BLDGS CONCRETE EXTERIOR WALL REINFORCING SCHEDULE

REINFORCING	SIZE AND SPACING	LOCATION	REMARKS
CURTAIN WALL VERTICAL	#6 @ 6"	TYPICAL U.N.O.	LOCATE VERTICAL BARS IN OUTER MOST LAYERS OF WALL REINF.
CURTAIN WALL HORIZONTAL	#6 CONT. @ 6"	TYPICAL U.N.O.	LOCATE HORIZONTAL BARS IN INNER MOST LAYERS OF WALL REINF. CONTINUE BARS ACROSS ALL WALL PIERS U.N.O.
CONCRETE LINTEL	#8 CONT. (QTY VARIES)	EACH FACE	ABOVE WALL OPENINGS. WIDTHS VARY. PROVIDE 5 BARS AT TOP AND BOT MIN. U.N.O. SEE DETAILS 6 ON SHEET S-504.
PIER WALL VERTICAL	SEE PIER WALL REINF. SCHED.		SEE PIER WALL REINF. SCHED.
BOND BEAMS	#6 @ 6" EA. WAY	AT TOP AND BOT. AT EXTERIOR WALLS	

EAST BUILDINGS PIER WALL REINFORCING SCHEDULE

PIER WALL	QUANTITY AND SIZE	STIRRUPS	REMARKS
P1	20 #8	#4 @ 6"	SEE DETAIL 1 ON SHEET S-508
P2	10 #8	#4 @ 6"	SEE DETAIL 9 ON SHEET S-502
P3	14 #8	#4 @ 6"	SEE DETAIL 10 ON SHEET S-502
P4	15 #8	#4 @ 4"	SEE DETAIL 11 ON SHEET S-502
P5	18 #8	#4 @ 4"	SEE DETAIL 12 ON SHEET S-502
P6	14 #8	#4 @ 4"	SEE DETAIL 6 ON SHEET S-508
P7	10 #8	#4 @ 6"	SEE DETAIL 7 ON SHEET S-508
P8	#8 @ 6" EA FACE, EA WAY	#4 @ 4"	AT FOUNTAIN AREA WALL LOCATIONS



LEGEND:

- FULL HEIGHT INTERIOR CONCRETE SHEAR WALL
- FULL HEIGHT CANTILEVER EXTERIOR CONCRETE CURTAIN WALL
- CONCRETE COUPLING BEAMS ABOVE AT CONCRETE SHEAR WALLS
- CONCRETE LINTEL ABOVE AT CONCRETE CURTAIN WALLS
- SPECIAL PIER WALL REINFORCING - SEE PIER REINFORCING SCHEDULE ON THIS SHEET

KEYNOTES: ◇

1. 1'-6" THICK CONCRETE MAT FOUNDATION w/ #7 @ 12" O.C., TOP & BOTTOM, EACH WAY. LOCATE REINFORCING 2" CLEAR FROM TOP OF MAT. SLOPE TOWARDS FLOOR DRAIN AT 1% SLOPE MINIMUM.
2. 10" THICK CAST-IN-PLACE CONCRETE SHEAR WALL. REFER TO REINFORCING SCHEDULE SHOWN HEREON, CONCRETE NOTES ON SHEET S-001 AND SPECIAL INSPECTION REQUIREMENTS ON SHEET S-003. REFER TO STRUCTURAL DETAILS FOR ADDITIONAL REINFORCING.
3. 12" THICK CAST-IN-PLACE CONCRETE WALL. REFER TO REINFORCING SCHEDULE SHOWN HEREON, CONCRETE NOTES ON SHEET S-001 AND SPECIAL INSPECTION REQUIREMENTS ON SHEET S-003. REFER TO STRUCTURAL DETAILS FOR ADDITIONAL REINFORCING.
4. W10x88 COLUMN FOR SPECIAL MOMENT FRAME - SEE DETAIL 8 ON SHEET S-502 FOR FOUNDATION CONNECTION.
5. EXPANSION JOINT BETWEEN EXTERIOR WALLS AND INTERIOR WALLS. SEE DETAIL 3 ON SHEET S-502 FOR MORE INFORMATION.
6. EDGE OF CONCRETE MAT FOUNDATION
7. MAT FOUNDATION CONSTRUCTION JOINT. SEE DETAIL 7 ON S-501 FOR MORE INFORMATION.
8. VERTICAL WALL CONSTRUCTION JOINT. SEE DETAIL 9 ON SHEET S-501 FOR MORE INFORMATION.
9. 1'-0" THICK PARAPET WALL ABOVE
10. MAT SLAB OPENING WITH GRAVEL INFILL FOR FUTURE PLUMBING FIXTURE LAYOUT. SEE ARCHITECTURAL PLANS FOR MORE INFORMATION.
11. 8" THICK CONC WALL ABOVE - SEE SCHEDULE ON THIS SHEET FOR REINFORCING
12. CONCRETE CORBEL ABOVE - SEE SHEETS S-102 AND S-102A FOR MORE INFORMATION
13. HSS4x4x3/8 COLUMN - SEE DETAIL 8 ON SHEET S-510 FOR ANCHORAGE
14. COLD-FORMED STEEL WALL FURRING - SEE ARCHITECTURAL PLANS
15. 6" INFILL SLAB w/ #4 @ 12" O.C., CENTERED IN SLAB.

DATUM
DATUM (0'-0") IS AT FINISHED FLOOR (F.F.) AROUND THE PERIMETER OF BUILDING. REFER TO GRADING PLANS FOR ELEVATIONS.

EAST BUILDING FOUNDATION PLAN

SCALE: 1/4" = 1'-0"

THE CITY OF LOS ANGELES OR ITS OFFICERS OR AGENTS SHALL NOT BE RESPONSIBLE FOR THE ACCURACY OR COMPLETENESS OF ELECTRONIC COPIES OF THIS PLAN SHEET.

REVISION DATES (DESIGN STAGE ONLY)

PLANS PREPARED BY:
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707 WILSHIRE BLVD. 23RD FLR.
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PHONE: (213) 239-8866

CITY OF LOS ANGELES — DEPARTMENT OF PUBLIC WORKS — BUREAU OF ENGINEERING

VERT. CONTROL: BM 12-04070, 1929 (NGVD29) - 1985 ADJUSTMENT
HORIZ. CONTROL: GPS; PID AE 1704, EPOCH 1991.35

SHEET TITLE: EAST BUILDING FOUNDATION PLAN
PROJECT: SIXTH STREET PARK, ARTS AND RIVER CONNECTIVITY IMPROVEMENTS (PARC)
ADDRESS: SIXTH STREET OVER THE LOS ANGELES RIVER

GARY LEE MOORE, P.E., ENV SP — CITY ENGINEER — DATE:
DESIGN GROUP
ENGINEER: MICHAEL OLSEN — LIC. NO.
DESIGNED BY: JUSTIN SMITH
DRAWN BY: BRETT BOEHMKE
CHECKED BY: NATE SCHREINER
APPROVED BY: JASON L. FUSSEL

• THIS PLAN WAS ELECTRONICALLY SIGNED AND STAMPED •
REGISTERED PROFESSIONAL ENGINEER — MICHAEL S. OLSEN — No. 81944 — CIVIL — STATE OF CALIFORNIA

NO. | REVISIONS | DATE | BY

INDEX NO.
BUILDING NO.

ENGINEERING — CITY OF LOS ANGELES

WORK ORDER NO. E700235D
FILE NO. --
DRAWING NO. S-101
SHEET 234 OF 295 SHEETS

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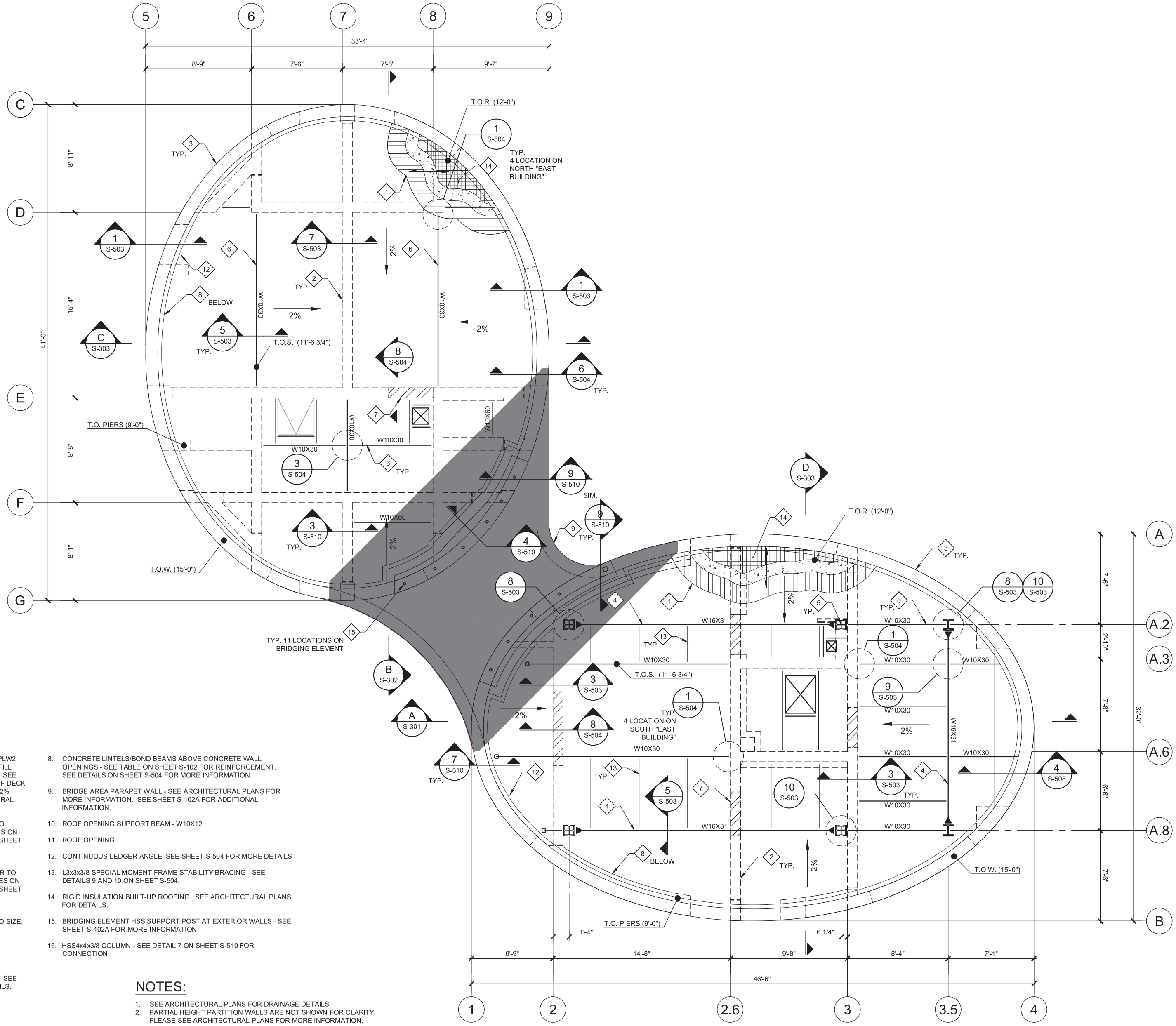

LEGEND:

- CONCRETE COUPLING BEAMS AT CONCRETE SHEAR WALLS. SEE DETAIL 8 ON SHEET S-504.
- MOMENT FRAME CONNECTION. ALL MOMENT FRAME WELDED CONNECTIONS SHALL BE DEMAND CRITICAL. SEE GENERAL NOTES FOR MORE INFORMATION.

KEYNOTES: ◇

1. CONCRETE FILLED METAL ROOF DECK - 16 GAUGE, 2" DEEP PLW2 OR W2 FORMLOK w/ 5 1/4" TOTAL LIGHT-WEIGHT CONCRETE FILL (110 PCF MAX) w/ 6X6-W4XW4 WELDED WIRE FABRIC (60 KSI). SEE DETAIL 5 ON SHEET S-503 FOR ATTACHMENT PATTERN. ROOF DECK TO SPAN AS SHOWN ON THE PLANS (3-SPAN MIN). PROVIDE 2% SLOPE TO ROOF DRAINS AS SPECIFIED ON THE ARCHITECTURAL PLANS.
2. 10" THICK CAST-IN-PLACE CONCRETE SHEAR WALL. REFER TO REINFORCING SCHEDULE ON SHEET S-101, CONCRETE NOTES ON SHEET S-001 AND SPECIAL INSPECTION REQUIREMENTS ON SHEET S-003. REFER TO STRUCTURAL DETAILS FOR ADDITIONAL REINFORCING.
3. 12" THICK CAST-IN-PLACE EXTERIOR CONCRETE WALL. REFER TO REINFORCING SCHEDULE SHOWN HEREON, CONCRETE NOTES ON SHEET S-001 AND SPECIAL INSPECTION REQUIREMENTS ON SHEET S-003. REFER TO STRUCTURAL DETAILS FOR ADDITIONAL REINFORCING.
4. SPECIAL MOMENT FRAME BEAM - SEE PLANS FOR SHAPE AND SIZE. SEE DETAIL 8 ON SHEET S-503.
5. SPECIAL MOMENT FRAME COLUMN - W10X88 (6 TOTAL)
6. COLLECTOR BEAM - SEE PLANS FOR SHAPE AND SIZE.
7. CONCRETE COUPLING BEAMS AT CONCRETE SHEAR WALLS - SEE DETAIL 8 ON SHEET S-504 FOR REINFORCEMENTS AND DETAILS.
8. CONCRETE LINTELS/BOND BEAMS ABOVE CONCRETE WALL OPENINGS - SEE TABLE ON SHEET S-102 FOR REINFORCEMENT. SEE DETAILS ON SHEET S-504 FOR MORE INFORMATION.
9. BRIDGE AREA PARAPET WALL - SEE ARCHITECTURAL PLANS FOR MORE INFORMATION. SEE SHEET S-102A FOR ADDITIONAL INFORMATION.
10. ROOF OPENING SUPPORT BEAM - W10X12
11. ROOF OPENING
12. CONTINUOUS LEDGER ANGLE. SEE SHEET S-504 FOR MORE DETAILS
13. L3x3x3/8 SPECIAL MOMENT FRAME STABILITY BRACING - SEE DETAILS 9 AND 10 ON SHEET S-504.
14. RIGID INSULATION BUILT-UP ROOFING. SEE ARCHITECTURAL PLANS FOR DETAILS.
15. BRIDGING ELEMENT HSS SUPPORT POST AT EXTERIOR WALLS - SEE SHEET S-102A FOR MORE INFORMATION
16. HSS4x4x3/8 COLUMN - SEE DETAIL 7 ON SHEET S-510 FOR CONNECTION

DATUM
DATUM (0'-0") IS AT FINISHED FLOOR (F.F.) AROUND THE PERIMETER OF BUILDING. REFER TO GRADING PLANS FOR ELEVATIONS.

NOTES:

1. SEE ARCHITECTURAL PLANS FOR DRAINAGE DETAILS
2. PARTIAL HEIGHT PARTITION WALLS ARE NOT SHOWN FOR CLARITY. PLEASE SEE ARCHITECTURAL PLANS FOR MORE INFORMATION. PARTIAL HEIGHT WALLS TO BE LATERALLY SUPPORTED WITH L3x3x1/4 BRACES STAGGERED AT 4'-0" MAX. ON CENTER - SEE SECTIONS FOR DETAILS.

EAST BUILDING ROOF FRAMING PLAN

SCALE: 1/4" = 1'-0"

SCALE: 1/4" = 1'-0"

REVISION DATES (DESIGN STAGE ONLY)

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PLANS PREPARED BY:
TETRA TECH, INC.
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PHONE: (213) 239-8866

CITY OF LOS ANGELES · DEPARTMENT OF PUBLIC WORKS · BUREAU OF ENGINEERING

VERT. CONTROL: BM 12-04070, 1929 (NGVD29) - 1985 ADJUSTMENT
HORIZ. CONTROL: GPS; PID AE 1704, EPOCH 1991.35

SHEET TITLE: EAST BUILDING ROOF FRAMING PLAN
PROJECT: SIXTH STREET PARK, ARTS AND RIVER CONNECTIVITY IMPROVEMENTS (PARC)
ADDRESS: SIXTH STREET OVER THE LOS ANGELES RIVER

GARY LEE MOORE, P.E., ENV SP — CITY ENGINEER — DATE:
DESIGN GROUP
ENGINEER: MICHAEL OLSEN — LIC. NO.
DESIGNED BY: JUSTIN SMITH
DRAWN BY: BRETT BOEHMKE
CHECKED BY: NATE SCHREINER
APPROVED BY: JASON L. FUSSEL

• THIS PLAN WAS ELECTRONICALLY SIGNED AND STAMPED •

REGISTERED PROFESSIONAL ENGINEER MICHAEL S. OLSEN No. 81944 CIVIL STATE OF CALIFORNIA

NO. | REVISIONS | DATE | BY

INDEX NO.

BUILDING NO.

ENGINEERING CITY OF LOS ANGELES

WORK ORDER NO. E700235D
FILE NO. –
DRAWING NO. S-102
SHEET 235 OF 295 SHEETS

7/11/2022 2:19:55 PM - O:\PROJECTS\IRVINE\20043\200-20043-17001\CAD\SHEETFILES\S-102_ROOF FRAMING - TT.DWG - BOEHMKE, BRETT

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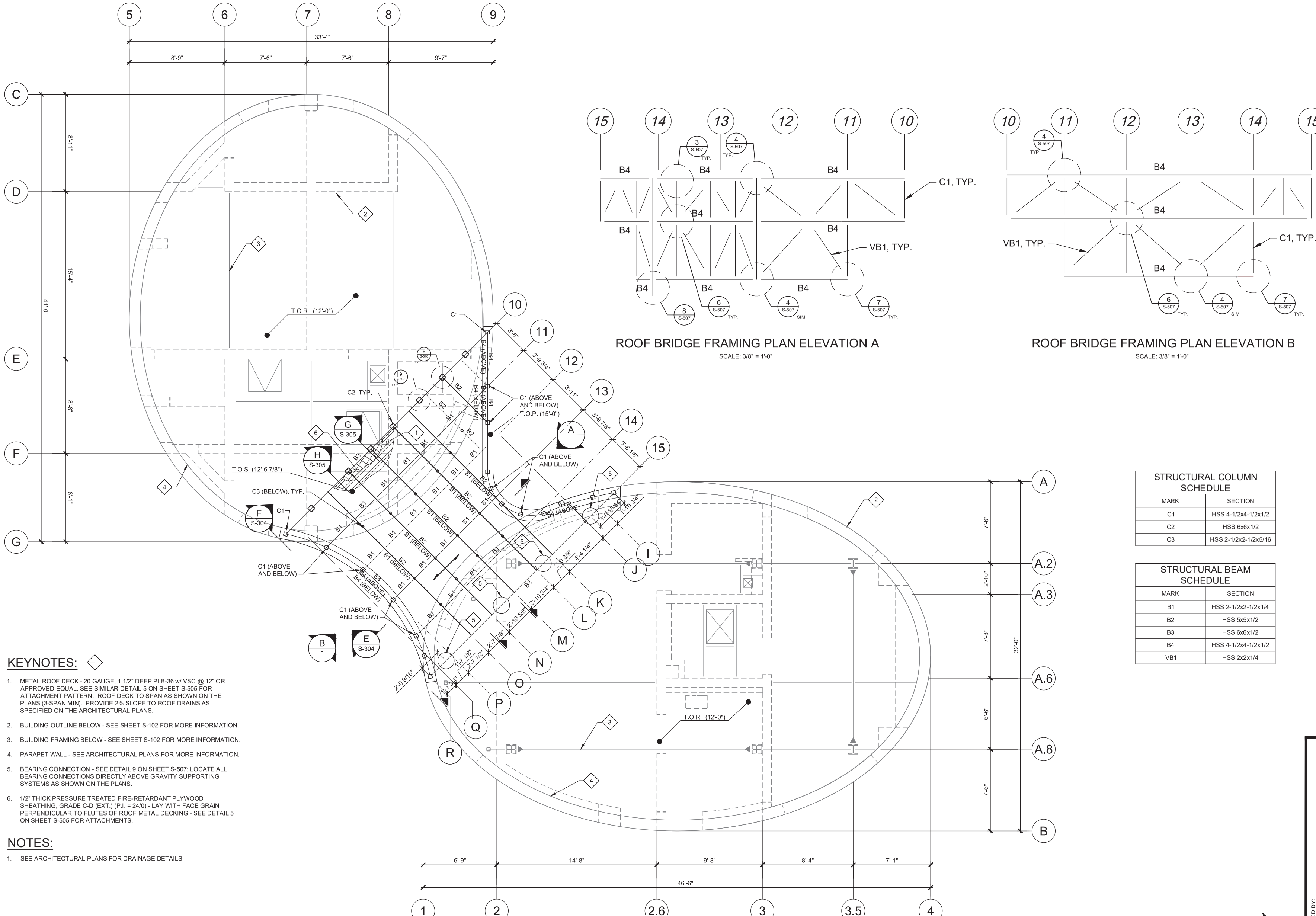

EAST BUILDING ROOF BRIDGE FRAMING PLAN

SCALE: 1/4" = 1'-0"

ROOF BRIDGE FRAMING PLAN ELEVATION A

SCALE: 3/8" = 1'-0"

ROOF BRIDGE FRAMING PLAN ELEVATION B

SCALE: 3/8" = 1'-0"

STRUCTURAL COLUMN SCHEDULE

MARK	SECTION
C1	HSS 4-1/2x4-1/2x1/2
C2	HSS 6x6x1/2
C3	HSS 2-1/2x2-1/2x5/16

STRUCTURAL BEAM SCHEDULE

MARK	SECTION
B1	HSS 2-1/2x2-1/2x1/4
B2	HSS 5x5x1/2
B3	HSS 6x6x1/2
B4	HSS 4-1/2x4-1/2x1/2
VB1	HSS 2x2x1/4

KEYNOTES: ◇

1. METAL ROOF DECK - 20 GAUGE, 1 1/2" DEEP PLB-36 w/ VSC @ 12" OR APPROVED EQUAL. SEE SIMILAR DETAIL 5 ON SHEET S-505 FOR ATTACHMENT PATTERN. ROOF DECK TO SPAN AS SHOWN ON THE PLANS (3-SPAN MIN). PROVIDE 2% SLOPE TO ROOF DRAINS AS SPECIFIED ON THE ARCHITECTURAL PLANS.
2. BUILDING OUTLINE BELOW - SEE SHEET S-102 FOR MORE INFORMATION.
3. BUILDING FRAMING BELOW - SEE SHEET S-102 FOR MORE INFORMATION.
4. PARAPET WALL - SEE ARCHITECTURAL PLANS FOR MORE INFORMATION.
5. BEARING CONNECTION - SEE DETAIL 9 ON SHEET S-507; LOCATE ALL BEARING CONNECTIONS DIRECTLY ABOVE GRAVITY SUPPORTING SYSTEMS AS SHOWN ON THE PLANS.
6. 1/2" THICK PRESSURE TREATED FIRE-RETARDANT PLYWOOD SHEATHING, GRADE C-D (EXT.) (P.I. = 24/0) - LAY WITH FACE GRAIN PERPENDICULAR TO FLUTES OF ROOF METAL DECKING - SEE DETAIL 5 ON SHEET S-505 FOR ATTACHMENTS.

NOTES:

1. SEE ARCHITECTURAL PLANS FOR DRAINAGE DETAILS

DATUM
DATUM (0'-0") IS AT FINISHED FLOOR (F.F.) AROUND THE PERIMETER OF BUILDING. REFER TO GRADING PLANS FOR ELEVATIONS.

REVISION DATES (DESIGN STAGE ONLY)

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PLANS PREPARED BY:
TETRA TECH, INC.
707 WILSHIRE BLVD. 23RD FLR.
LOS ANGELES, CA 90017
PHONE: (213) 239-8866

CITY OF LOS ANGELES — DEPARTMENT OF PUBLIC WORKS — BUREAU OF ENGINEERING

VERT. CONTROL: BM 12-04070, 1929 (NGVD29) - 1985 ADJUSTMENT
HORIZ. CONTROL: GPS; PID AE 1704, EPOCH 1991.35

SHEET TITLE: EAST BUILDING ROOF BRIDGE FRAMING PLAN
PROJECT: SIXTH STREET PARK, ARTS AND RIVER CONNECTIVITY IMPROVEMENTS (PARC)
ADDRESS: SIXTH STREET OVER THE LOS ANGELES RIVER

GARY LEE MOORE, P.E., ENV SP — CITY ENGINEER — DATE:
DESIGN GROUP
ENGINEER: MICHAEL OLSEN — LIC. NO.
DESIGNED BY: JUSTIN SMITH
DRAWN BY: 236
CHECKED BY: NATE SCHREINER
APPROVED BY: JASON L. FUSSEL

THIS PLAN WAS ELECTRONICALLY SIGNED AND STAMPED

REGISTERED PROFESSIONAL ENGINEER — MICHAEL S. OLSEN — No. 81944 — CIVIL — STATE OF CALIFORNIA

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INDEX NO.

BUILDING NO.

ENGINEERING — CITY OF LOS ANGELES

WORK ORDER NO. E700235D
FILE NO. –
DRAWING NO. S-102A
SHEET 236 OF 295 SHEETS

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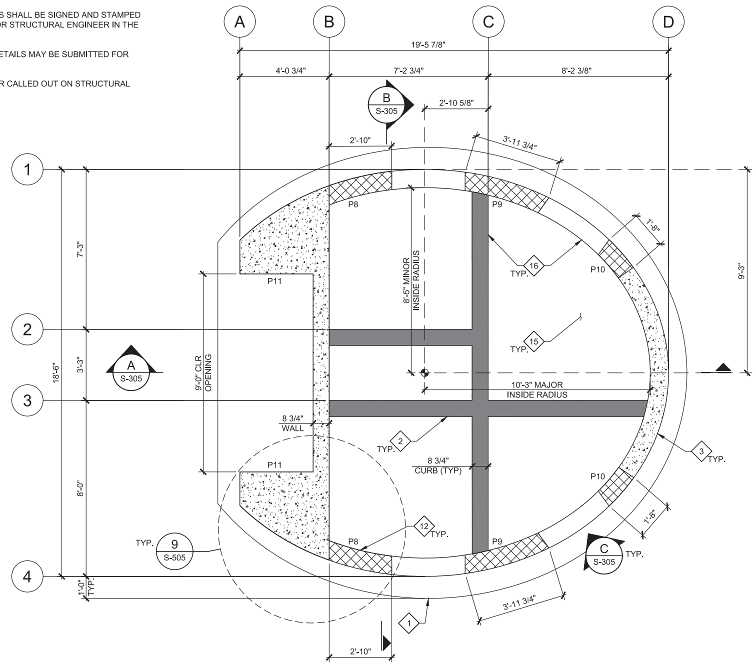
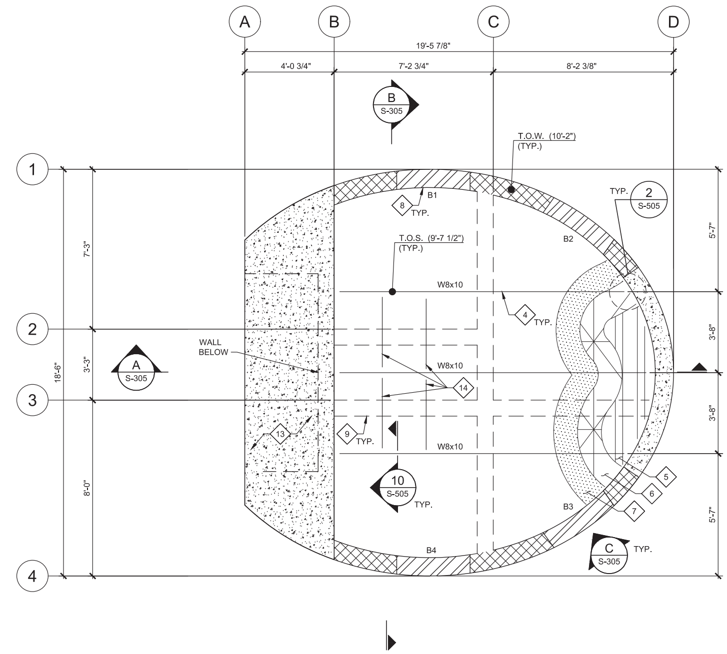
CFS INFILL STUD WALL, PARTITION WALLS AND CEILING NOTES:

1. SCHEMATIC DETAILS SHOWN ON ARCHITECTURAL DRAWINGS. GENERAL CONTRACTOR (GC) SHALL PROVIDE DETAILS (INCLUDING STUD SIZES, CONNECTIONS, ETC.), STRUCTURAL CALCULATIONS AND SHOP DRAWINGS. GC TO SUBMIT FOR REVIEW PRIOR TO FABRICATION.
2. STRUCTURAL CALCULATIONS SHALL BE SIGNED AND STAMPED BY A DULY LICENSED CIVIL OR STRUCTURAL ENGINEER IN THE STATE OF CALIFORNIA.
3. ALTERNATE CONNECTION DETAILS MAY BE SUBMITTED FOR REVIEW.
4. CFS DETAILS NOT SHOWN OR CALLED OUT ON STRUCTURAL DRAWINGS FOR CLARITY.



WEST RESTROOM BUILDING FOUNDATION PLAN

SCALE: 3/8" = 1'-0"



WEST RESTROOM BUILDING ROOF PLAN

SCALE: 3/8" = 1'-0"

LEGEND:

- FULL HEIGHT CONCRETE SHEAR WALL
- CONCRETE CURB WALLS
- CONCRETE COUPLING BEAMS ABOVE AT CONCRETE SHEAR WALLS
- CONCRETE SHEAR WALL BOUNDARY ELEMENT

DATUM
DATUM (0'-0") IS AT FINISHED FLOOR (F.F.) AROUND THE PERIMETER OF BUILDING. REFER TO GRADING PLANS FOR ELEVATIONS.

KEYNOTES: ◇

1. 1'-6" THICK CONCRETE MAT FOUNDATION w/ #7 @ 12" O.C., TOP AND BOTTOM, EACH WAY. LOCATE REINFORCING 2" CLEAR FROM TOP OF MAT. SLOPE TOWARDS FLOOR DRAIN AT 1% SLOPE MINIMUM.
2. CONCRETE CURB WALL AT INTERIOR WALLS - SEE DETAIL 1 ON SHEET S-505.
3. 10" THICK CAST-IN-PLACE CONCRETE SHEAR WALL. REFER TO REINFORCING SCHEDULE SHOWN HEREON, CONCRETE NOTES ON SHEET S-001 AND SPECIAL INSPECTION REQUIREMENTS ON SHEET S-003. REFER TO STRUCTURAL DETAILS FOR ADDITIONAL REINFORCING.
4. W8X10 ROOF RAFTERS AT 5'-0" O.C. MAX. UNLESS OTHERWISE SPECIFIED.
5. METAL ROOF DECK - 16 GAUGE, 1 1/2" DEEP PLB-36 OR HSB-36, TSW @ 12" OR APPROVED EQUAL. SEE DETAIL 5 ON SHEET S-505 FOR ATTACHMENT PATTERN. ROOF DECK TO SPAN AS SHOWN ON THE PLANS.
6. 3/4" THICK PRESSURE TREATED FIRE-RETARDANT PLYWOOD SHEATHING, GRADE C-D (EXT.) (P.I. = 24/0) - LAY WITH FACE GRAIN PERPENDICULAR TO FLUTES OF ROOF METAL DECKING - SEE DETAIL 5 ON SHEET S-505FOR ATTACHMENTS.
7. MEMBRANE ROOFING - SEE PROJECT SPECIFICATION FOR MATERIALS AND INSTALLATION REQUIREMENTS.
8. CONCRETE COUPLING BEAMS AT CONCRETE SHEAR WALLS - SEE DETAIL 7 ON SHEET S-505 FOR REINFORCEMENTS AND DETAILS.
9. INTERIOR METAL STUD PARTITION WALL - SEE ARCHITECTURAL PLANS FOR DETAIL.
10. ROOF OPENING SUPPORT BEAM - HSS4x4x3/8
11. NOT USED.
12. CONCRETE SHEAR WALL BOUNDARY ELEMENT PER DETAIL 8 SHEET S-505.
13. 7" THICK CONCRETE ROOF SLAB w/ #5 @ 12" O.C., E.W., CENTERED.
14. C7x9.8 SUPPLEMENTAL ROOF FRAMING. FIELD LOCATE AS REQUIRED TO SUPPORT MECHANICAL EQUIPMENT.
15. 6" SLAB ON GRADE w/ #4 @ 12" O.C., CENTERED, EACH WAY.
16. 1/2" ISOLATION JOINT IN SLAB ON GRADE PER DETAIL 11 SHEET S-501.

WEST BUILDINGS CONCRETE WALL REINFORCING SCHEDULE

REINFORCING	SIZE AND SPACING	LOCATION	REMARKS
VERTICAL	#6 @ 12"	TYPICAL U.N.O.	LOCATE VERTICAL BARS IN INNER MOST LAYERS OF WALL REINF.
HORIZONTAL	#4 CONT. @ 12"	TYPICAL U.N.O.	LOCATE HORIZONTAL BARS IN OUTER MOST LAYERS OF WALL REINF.
HORIZONTAL CHORD BARS	2-#6 CONT. SPACED VERTICALLY APART @ 8"	AT TOP OF WALL	
CONCRETE LINTEL	2-#6 CONT. BAR	EACH FACE	AT WALL OPENINGS
PIER WALL VERT.	#6 @ 12"	EACH FACE	LOCATE VERTICAL BARS IN OUTER MOST LAYERS OF WALL REINF.

WEST RESTROOM BUILDING PIER WALL REINFORCING SCHEDULE

PIER WALL	QUANTITY AND SIZE	STIRRUPS	REMARKS
P8	12 #6	#5 @ 6"	SEE DETAIL 9 ON SHEET S-505
P9	16 #6	#5 @ 6"	SEE TYPICAL DETAIL 8 ON SHEET S-505
P10	8 #6	#5 @ 6"	SEE TYPICAL DETAIL 8 ON SHEET S-505
P11	15 #6	#5 @ 6"	SEE DETAIL 9 ON SHEET S-505

WEST RESTROOM BUILDING COUPLING BEAM SCHEDULE

COUPLING BEAM	NOMINAL LENGTH	ANGLE, START*	ANGLE, END*	REMARKS
B1	3'-4"	-9.75°	11.90°	SEE DETAIL 7 ON SHEET S-505
B2	3'-4"	35.31°	54.90°	SEE DETAIL 7 ON SHEET S-505
B3	3'-4"	125.10°	144.70°	SEE DETAIL 7 ON SHEET S-505
B4	3'-4"	168.12°	189.73°	SEE DETAIL 7 ON SHEET S-505

*NOTE:
COUPLING BEAM ANGLES ARE MEASURED FROM LINE ORIGINATING AT CENTER OF ELLIPTICAL BUILDING HEADING PLAN NORTH

0 1'-4" 2'-8" 5'-4"
SCALE: 3/8" = 1'-0"

REVISION DATES (DESIGN STAGE ONLY)

Sheet Version 3.0

PLANS PREPARED BY:
TETRA TECH, INC.
707 WILSHIRE BLVD, 23RD FLR.
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HORIZ. CONTROL: GPS, PID AE 1704, EPOCH 1991.35

SHEET TITLE: WEST RESTROOM BUILDING FOUNDATION & ROOF PLAN
PROJECT: SIXTH STREET PARK, ARTS AND RIVER CONNECTIVITY IMPROVEMENTS (PARC)
ADDRESS: SIXTH STREET OVER THE LOS ANGELES RIVER

GARY LEE MOORE, P.E., ENV SP — CITY ENGINEER — DATE:
DESIGN GROUP
ENGINEER: MICHAEL OLSEN — LIC. NO.
DESIGNED BY: JUSTIN SMITH
DRAWN BY: BRETT BOEHMKE
CHECKED BY: NATE SCHREINER
APPROVED BY: JASON L. FUSSEL

• THIS PLAN WAS ELECTRONICALLY SIGNED AND STAMPED.

REGISTERED PROFESSIONAL ENGINEER — MICHAEL S. OLSEN — No. 81944 — CIVIL — STATE OF CALIFORNIA

NO. | REVISIONS | DATE | BY

INDEX NO.

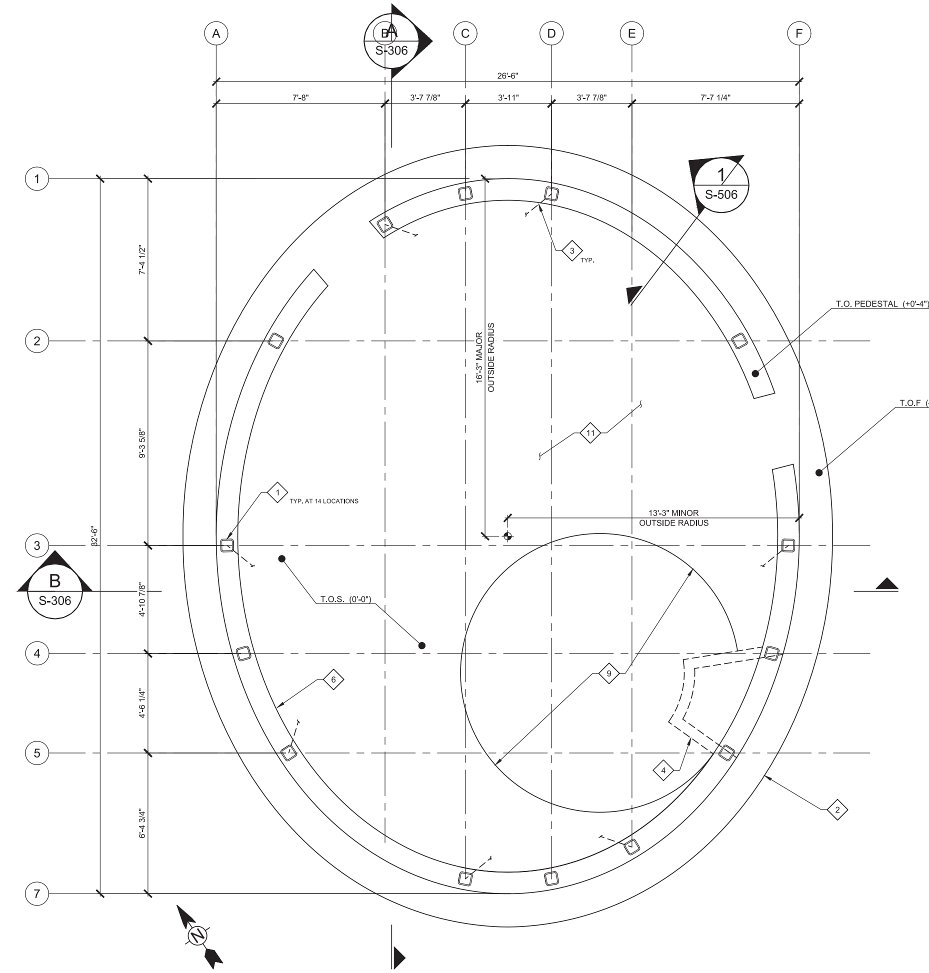
BUILDING NO.

ENGINEERING — CITY OF LOS ANGELES

WORK ORDER NO. E700235D
FILE NO. --
DRAWING NO.
S-103
SHEET 237 OF 295 SHEETS

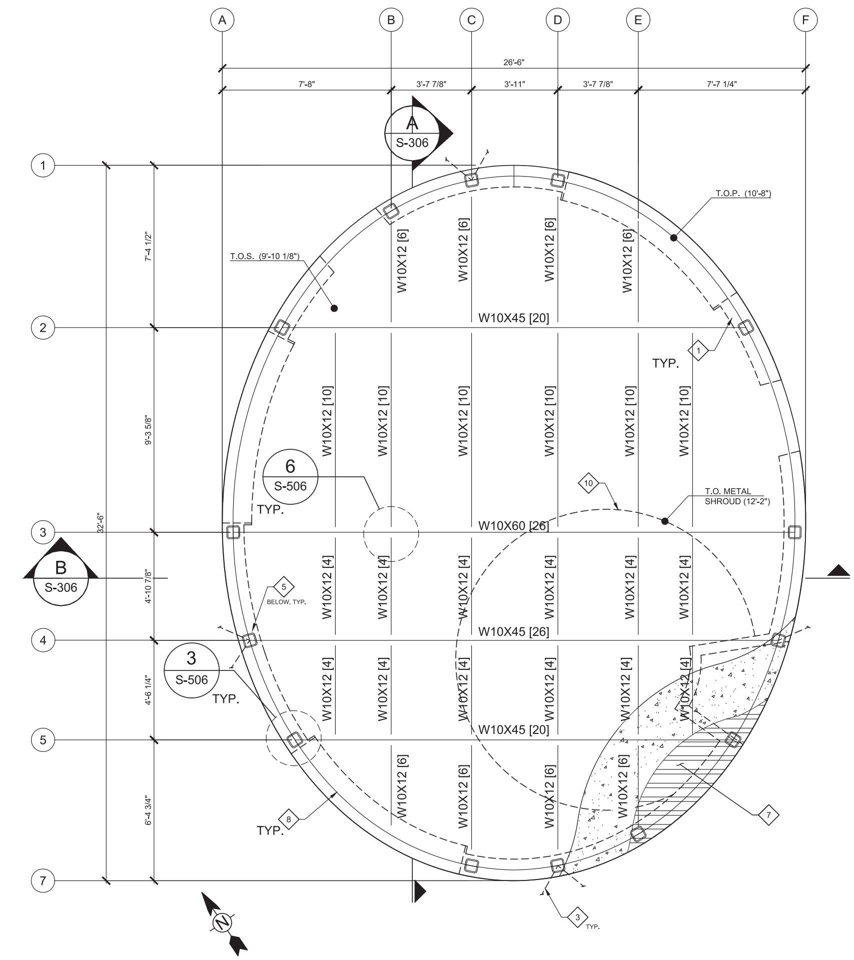
7/11/2022 4:23:19 PM - O:\PROJECTS\IRVINE\20043\200-20043-17001\CAD\SHEETFILES\S-103_WEST RESTROOM BUILDING FOUNDATION & ROOF PLAN.DWG - BOEHMKE, BRETT

BID SET - NOT FOR CONSTRUCTION



WEST CAFE BUILDING FOUNDATION PLAN

SCALE: 3/8" = 1'-0"



WEST CAFE BUILDING ROOF PLAN

SCALE: 3/8" = 1'-0"

KEYNOTES: ◇

1. HSS7x7x5/8 SQUARE COLUMN
2. 2'-0" THICK CONCRETE MAT FOUNDATION w/ #7 @ 12" O.C., TOP AND BOTTOM, EACH WAY.
3. HSS3x3x3/8 VERTICAL BRACE - SEE ELEVATIONS ON SHEET S-306A FOR MORE INFORMATION.
4. METAL STUD WALL UTILITY ENCLOSURE
5. METAL STUD WALL
6. 11-3/4" WIDE BY 4" HIGH CONCRETE CURB FOR GLASS CURTAIN WALL SUPPORT - SEE DETAIL 1 ON SHEET S-506.
7. CONCRETE FILLED METAL ROOF DECK - 16 GAUGE, 2" DEEP PLW2 OR W2 FORMLOK w/ 4" TOTAL LIGHTWEIGHT CONCRETE FILL (110 PCF MAX) w/ 6X6-W1.4XW1.4 WELDED WIRE FABRIC (60 KSI). TSW @ 12" OR APPROVED EQUAL. SEE DETAIL 5 ON SHEET S-503 FOR ATTACHMENT PATTERN. ROOF DECK TO SPAN AS SHOWN ON THE PLANS (3-SPAN MIN). PROVIDE 2% SLOPE TO ROOF DRAINS AS SPECIFIED ON THE ARCHITECTURAL PLANS.
8. CONTINUOUS CURVED W10X45 BEAM AT BUILDING ROOF PERIMETER - SEE DETAIL 12 ON SHEET S-506 FOR SPLICE CONNECTION
9. SLAB OPENING WITH GRAVEL INFILL FOR FUTURE PLUMBING FIXTURE LAYOUT. SEE ARCHITECTURAL PLANS FOR MORE INFORMATION.
10. METAL SHROUD. SEE ARCHITECTURAL PLANS FOR DETAILS.
11. 6" INFILL SLAB w/ #4 @ 12" O.C., CENTERED IN SLAB.

DATUM

DATUM (0'-0") IS AT FINISHED FLOOR (F.F.) AROUND THE PERIMETER OF BUILDING AT ELEVATION ± 251.50'.
G.C. TO FIELD VERIFY

CFS INFILL STUD WALL, PARTITION WALLS AND CEILING NOTES:

1. SCHEMATIC DETAILS SHOWN ON ARCHITECTURAL DRAWINGS. GENERAL CONTRACTOR (GC) SHALL PROVIDE DETAILS (INCLUDING STUD SIZES, CONNECTIONS, ETC.), STRUCTURAL CALCULATIONS AND SHOP DRAWINGS. GC TO SUBMIT FOR REVIEW PRIOR TO FABRICATION.
2. STRUCTURAL CALCULATIONS SHALL BE SIGNED AND STAMPED BY A DULY LICENSED CIVIL OR STRUCTURAL ENGINEER IN THE STATE OF CALIFORNIA.
3. ALTERNATE CONNECTION DETAILS MAY BE SUBMITTED FOR REVIEW.
4. CFS DETAILS NOT SHOWN OR CALLED OUT ON STRUCTURAL DRAWINGS FOR CLARITY.

REVISION DATES (DESIGN STAGE ONLY)

Sheet Version 3.0

PLANS PREPARED BY:
TETRA TECH, INC.
707 WILSHIRE BLVD. 23RD FLR.
LOS ANGELES, CA 90017
PHONE: (213) 239-8866

CITY OF LOS ANGELES — DEPARTMENT OF PUBLIC WORKS — BUREAU OF ENGINEERING

VERT. CONTROL: BM 12-04070, 1929 (NGVD29) - 1985 ADJUSTMENT
HORIZ. CONTROL: GPS: PID AE 1704, EPOCH 1991.35

SHEET TITLE: WEST CAFE BUILDING FOUNDATION & ROOF PLAN
PROJECT: SIXTH STREET PARK, ARTS AND RIVER CONNECTIVITY IMPROVEMENTS (PARC)
ADDRESS: SIXTH STREET OVER THE LOS ANGELES RIVER

GARY LEE MOORE, P.E., ENV SP — CITY ENGINEER — DATE:
DESIGN GROUP
ENGINEER: MICHAEL OLSEN — LIC. NO.
DESIGNED BY: JUSTIN SMITH
DRAWN BY: BRETT BOEHMKE
CHECKED BY: NATE SCHREINER
APPROVED BY: JASON L. FUSSEL

• THIS PLAN WAS ELECTRONICALLY SIGNED AND STAMPED •

REGISTERED PROFESSIONAL ENGINEER — MICHAEL S. OLSEN — No. 81944 — CIVIL — STATE OF CALIFORNIA

NO. | REVISIONS: | DATE: | BY:

INDEX NO.

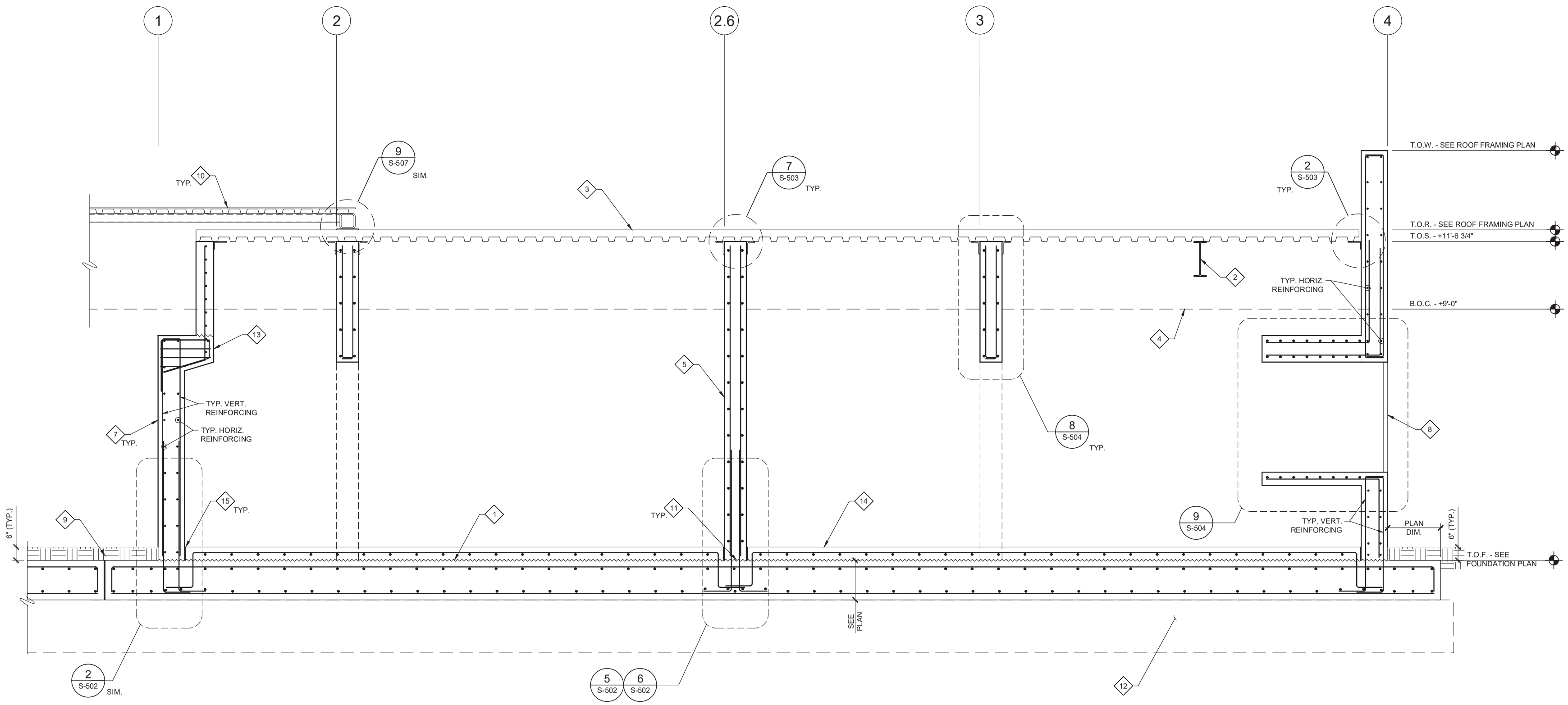
BUILDING NO.

ENGINEERING — CITY OF LOS ANGELES

WORK ORDER NO. E700235D
FILE NO. --
DRAWING NO. S-104
SHEET 238 OF 295 SHEETS

7/11/2022 2:27:54 PM - O:\PROJECTS\IRVINE\20043\200-20043-17001\CAD\SHEETFILES\S-104_WEST CAFE BUILDING FOUNDATION & ROOF PLAN - TT.DWG - BOEHMKE, BRETT

BID SET - NOT FOR CONSTRUCTION



A SECTION
S-101 SCALE: 1/2"=1'-0"

KEYNOTES:

1. CONCRETE MAT FOUNDATION - FOR REINFORCING SEE SHEET S-101
2. SPECIAL MOMENT FRAME BEAM - SEE SHEET S-102 FOR LOCATION, TYPE AND SIZE
3. CONCRETE FILLED METAL ROOF DECK - SEE SHEET S-102 AND PROJECT SPECIFICATIONS FOR DECK TYPE. PROVIDE 3" SEPARATION BETWEEN DECK EDGE AND EXTERIOR CONCRETE WALLS.
4. DROP DOWN CEILING
5. CAST-IN-PLACE INTERIOR CONCRETE SHEAR WALL - SEE SHEET S-101 FOR REINF.
6. NOT USED
7. CAST-IN-PLACE EXTERIOR CONCRETE WALL - SEE SHEET S-101 FOR REINF.
8. OPERABLE TRACK SLIDING METAL PANEL ENCLOSURE - SEE ARCHITECTURAL PLANS FOR DETAILS
9. JOINT SEALANT
10. EAST BUILDING ROOF BRIDGE FRAMING - SEE SHEET S-102A FOR SHAPES, SIZES AND LOCATION
11. ROUGHENED JOINT
12. OVEREXCAVATION AND RECOMPACTION PER DETAIL 1 ON SHEET S-509 - REFER TO GEOTECHNICAL REPORT FOR ADDITIONAL INFORMATION
13. CONCRETE CORBEL - SEE DETAIL 5 ON S-510
14. CONCRETE SLAB INFILL - SEE SHEET S-101 FOR REINFORCING
15. 1/2" ISOLATION JOINT PER DETAIL 11 SHEET S-501

REVISION DATES (DESIGN STAGE ONLY)

Sheet Version 3.0

PLANS PREPARED BY:
TETRA TECH, INC.
707 WILSHIRE BLVD. 23RD FLR.
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PHONE: (213) 239-8866

CITY OF LOS ANGELES — DEPARTMENT OF PUBLIC WORKS — BUREAU OF ENGINEERING

VERT. CONTROL: BM 12-04070, 1929 (NGVD29) - 1985 ADJUSTMENT
HORIZ. CONTROL: GPS; PID AE 1704, EPOCH 1991.35

SHEET TITLE: EAST BUILDING SECTION

PROJECT: SIXTH STREET PARK, ARTS AND RIVER CONNECTIVITY IMPROVEMENTS (PARC)

ADDRESS: SIXTH STREET OVER THE LOS ANGELES RIVER

GARY LEE MOORE, P.E., ENV SP — CITY ENGINEER
DESIGN GROUP — DATE:
ENGINEER: MICHAEL OLSEN — LIC. NO.
DESIGNED BY: JUSTIN SMITH
DRAWN BY: BRETT BOEHMKE
CHECKED BY: NATE SCHREINER
APPROVED BY: JASON L. FUSSEL

THIS PLAN WAS ELECTRONICALLY SIGNED AND STAMPED.

REGISTERED PROFESSIONAL ENGINEER — MICHAEL S. O. OLSEN — No. 81944 — CIVIL — STATE OF CALIFORNIA

NO.	REVISIONS:	DATE:	BY:

INDEX NO.

BUILDING NO.

ENGINEERING — CITY OF LOS ANGELES

WORK ORDER NO. E700235D
FILE NO. --
DRAWING NO. S-301
SHEET 239 OF 295 SHEETS

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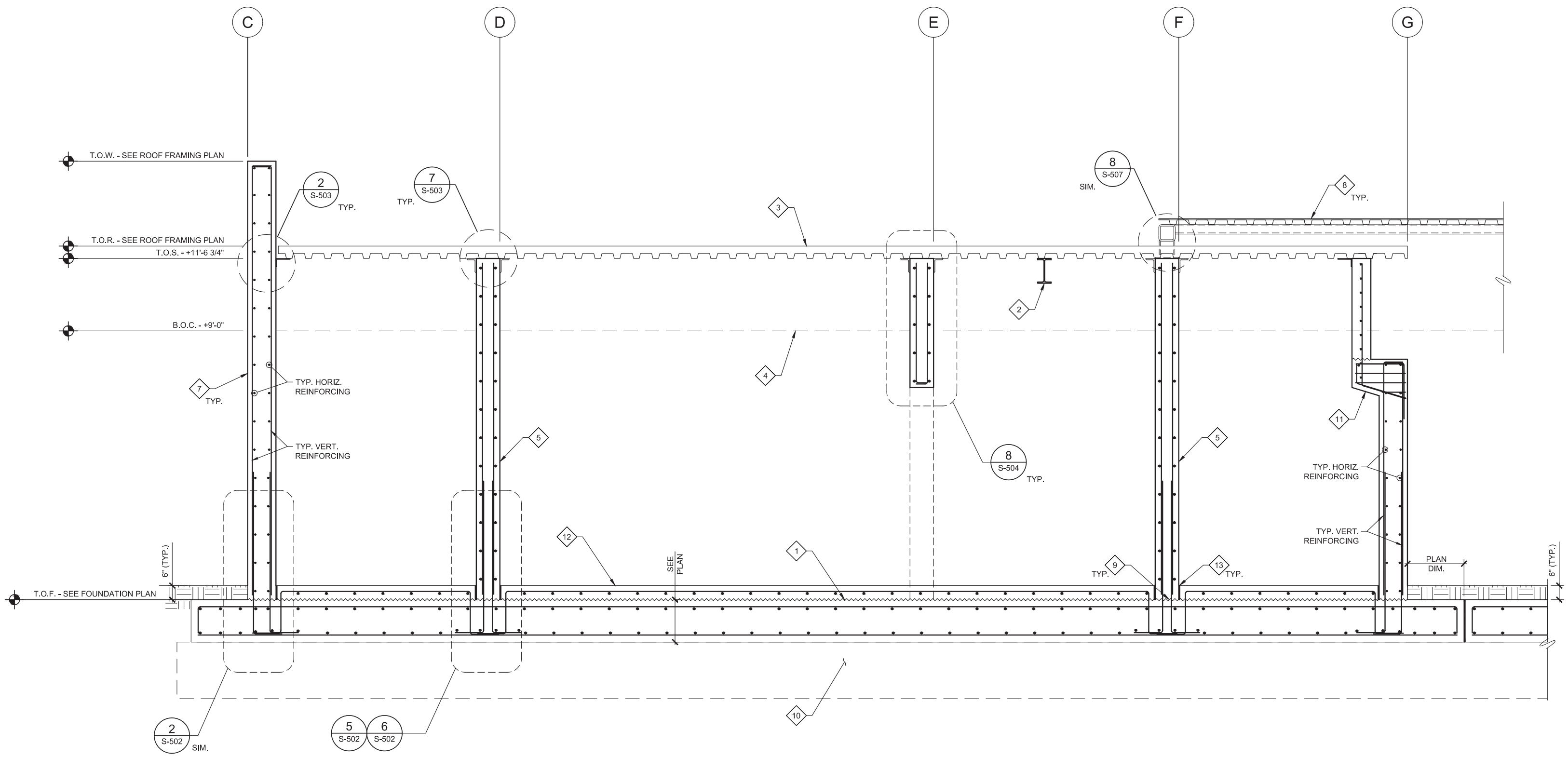

KEYNOTES:

1. CONCRETE MAT FOUNDATION - FOR REINFORCING SEE SHEET S-101
2. COLLECTOR BEAM - SEE SHEET S-102 FOR LOCATION, TYPE AND SIZE
3. CONCRETE FILLED METAL ROOF DECK - SEE SHEET S-102 AND PROJECT SPECIFICATIONS FOR DECK TYPE. PROVIDE 3" SEPARATION BETWEEN DECK EDGE AND EXTERIOR CONCRETE WALLS.
4. DROP DOWN CEILING
5. CAST-IN-PLACE INTERIOR CONCRETE SHEAR WALL - SEE SHEET S-101 FOR REINF.
6. JOINT SEALANT
7. CAST-IN-PLACE EXTERIOR CONCRETE WALL - SEE SHEET S-101 FOR REINF.
8. EAST BUILDING ROOF BRIDGE FRAMING - SEE SHEET S-102A FOR SHAPES, SIZES AND LOCATION
9. ROUGHENED JOINT
10. OVEREXCAVATION AND RECOMPACTION PER DETAIL 1 ON SHEET S-509 - REFER TO GEOTECHNICAL REPORT FOR ADDITIONAL INFORMATION
11. CONCRETE CORBEL - SEE DETAIL 5 ON S-510
12. CONCRETE SLAB INFILL - SEE SHEET S-101 FOR REINFORCING
13. 1/2" ISOLATION JOINT PER DETAIL 11 SHEET S-501

B / S-101 SECTION
SCALE: 1/2"=1'-0"

REVISION DATES (DESIGN STAGE ONLY)

Sheet Version 3.0

PLANS PREPARED BY:
TETRA TECH, INC.
707 WILSHIRE BLVD, 23RD FLR.
LOS ANGELES, CA 90017
PHONE: (213) 239-8866

CITY OF LOS ANGELES — DEPARTMENT OF PUBLIC WORKS — BUREAU OF ENGINEERING

VERT. CONTROL: BM 12-04070, 1929 (NGVD29) - 1985 ADJUSTMENT
HORIZ. CONTROL: GPS; PID AE 1704, EPOCH 1991.35

SHEET TITLE: EAST BUILDING SECTION

PROJECT: SIXTH STREET PARK, ARTS AND RIVER CONNECTIVITY IMPROVEMENTS (PARC)
ADDRESS: SIXTH STREET OVER THE LOS ANGELES RIVER

GARY LEE MOORE, P.E., ENV SP — CITY ENGINEER — DATE:
DESIGN GROUP
ENGINEER: MICHAEL OLSEN — LIC. NO.
DESIGNED BY: JUSTIN SMITH
DRAWN BY: BRETT BOEHMKE
CHECKED BY: NATE SCHREINER
APPROVED BY: JASON L. FUSSEL

THIS PLAN WAS ELECTRONICALLY SIGNED AND STAMPED
REGISTERED PROFESSIONAL ENGINEER — MICHAEL S. OLSEN — No. 81944 — CIVIL — STATE OF CALIFORNIA

NO. | REVISIONS: | DATE: | BY:

INDEX NO.
BUILDING NO.

ENGINEERING — CITY OF LOS ANGELES

WORK ORDER NO. E700235D
FILE NO. --
DRAWING NO. S-302
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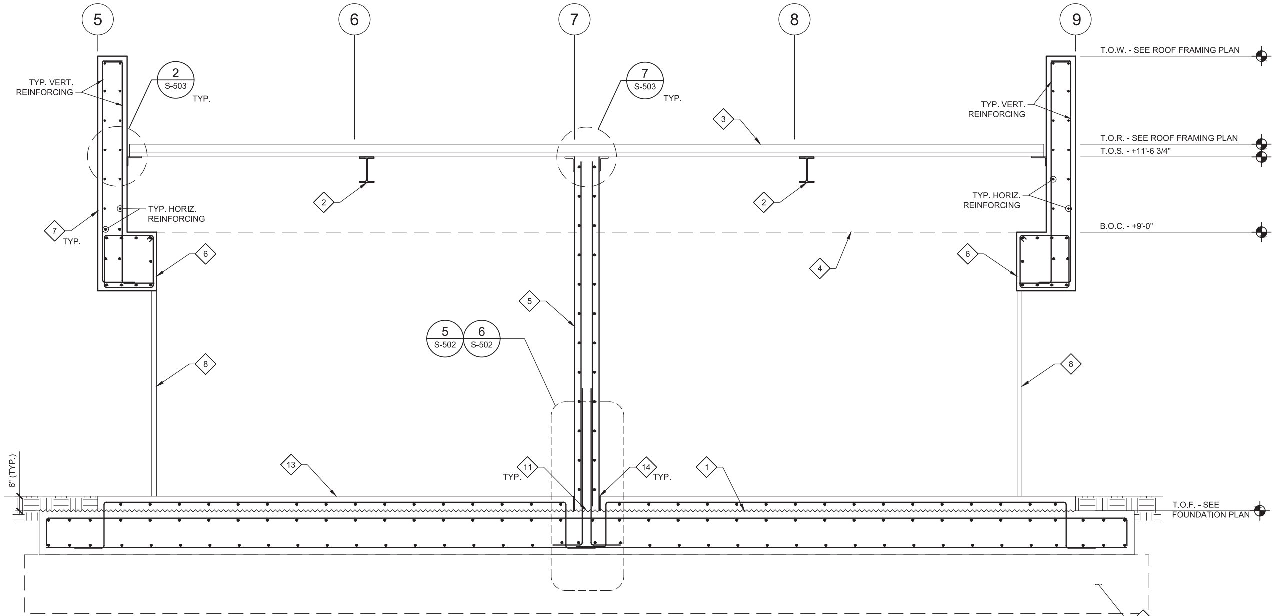

C S-101 SECTION
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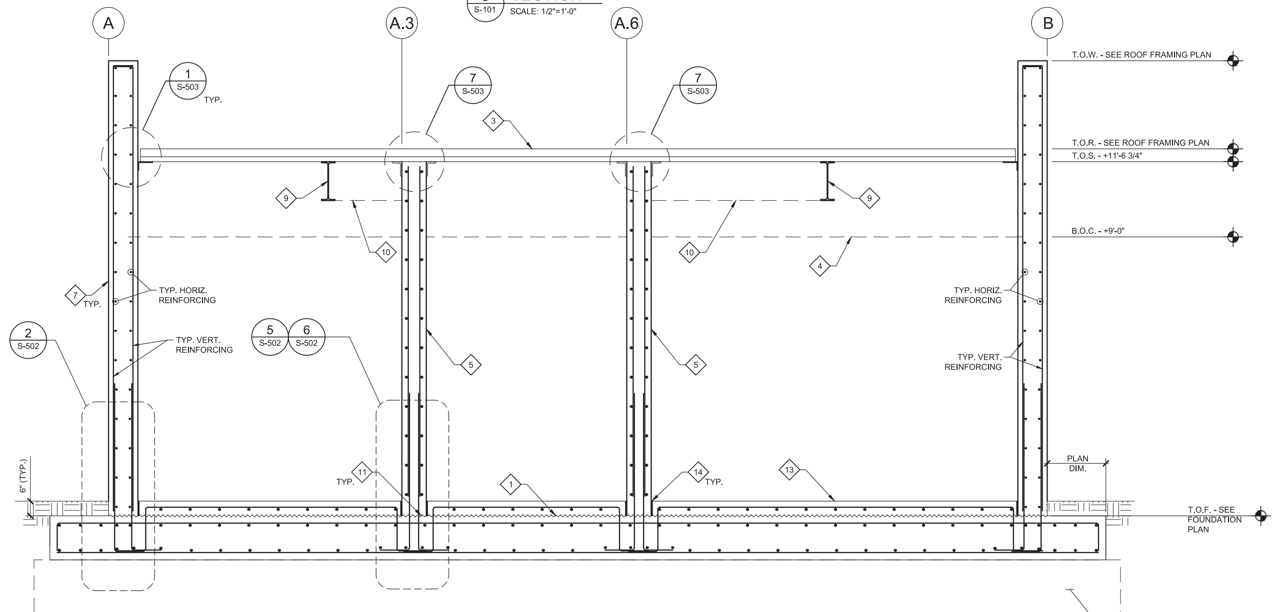

D S-101 SECTION
SCALE: 1/2"=1'-0"

KEYNOTES: ◇

1. CONCRETE MAT FOUNDATION - FOR REINFORCING SEE SHEET S-101
2. COLLECTOR BEAM - SEE SHEET S-102 FOR LOCATION, TYPE AND SIZE
3. CONCRETE FILLED METAL ROOF DECK - SEE SHEET S-102 AND PROJECT SPECIFICATIONS FOR DECK TYPE. PROVIDE 3" SEPARATION BETWEEN DECK EDGE AND EXTERIOR CONCRETE WALLS.
4. DROP DOWN CEILING
5. CAST-IN-PLACE INTERIOR CONCRETE SHEAR WALL - SEE SHEET S-101 FOR REINF.
6. CAST-IN-PLACE CONCRETE LINTEL - SEE SHEET S-102 FOR REINF.
7. CAST-IN-PLACE EXTERIOR CONCRETE WALL - SEE SHEET S-101 FOR REINF.
8. TYPICAL DOOR - SEE ARCHITECTURAL PLANS FOR DETAILS
9. SPECIAL MOMENT FRAME BEAM - SEE SHEET S-102 FOR LOCATION, TYPE AND SIZE
10. SPECIAL MOMENT FRAME BEAM STABILITY BRACING - SEE DETAIL 10 ON SHEET S-504
11. ROUGHENED JOINT
12. OVEREXCAVATION AND RECOMPACTION PER DETAIL 1 ON SHEET S-509 - REFER TO GEOTECHNICAL REPORT FOR ADDITIONAL INFORMATION
13. CONCRETE SLAB INFILL - SEE SHEET S-101 FOR REINFORCING
14. 1/2" ISOLATION JOINT PER DETAIL 11 SHEET S-501

REVISION DATES (DESIGN STAGE ONLY)

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PLANS PREPARED BY:
TETRA TECH, INC.
707 WILSHIRE BLVD. 23RD FLR.
LOS ANGELES, CA 90017
PHONE: (213) 239-8866

CITY OF LOS ANGELES DEPARTMENT OF PUBLIC WORKS BUREAU OF ENGINEERING

VERT. CONTROL: BM 12-04070, 1929 (NGVD29) - 1985 ADJUSTMENT
HORIZ. CONTROL: GPS; PID AE 1704, EPOCH 1991.35

SHEET TITLE: EAST BUILDING SECTION

PROJECT: SIXTH STREET PARK, ARTS AND RIVER CONNECTIVITY IMPROVEMENTS (PARC)
ADDRESS: SIXTH STREET OVER THE LOS ANGELES RIVER

GARY LEE MOORE, P.E., ENV SP — CITY ENGINEER — DATE:
DESIGN GROUP
ENGINEER: MICHAEL OLSEN — LIC. NO.
DESIGNED BY: JUSTIN SMITH
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REGISTERED PROFESSIONAL ENGINEER MICHAEL S. OLSEN No. 81944 CIVIL STATE OF CALIFORNIA

NO. REVISIONS: — DATE: — BY:
INDEX NO.
BUILDING NO.

ENGINEERING CITY OF LOS ANGELES

WORK ORDER NO. E700235D
FILE NO. --
DRAWING NO. S-303
SHEET 241 OF 295 SHEETS

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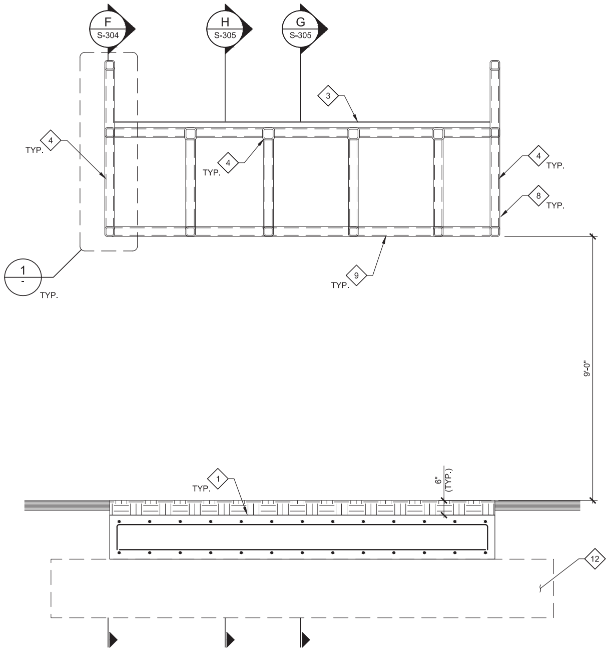

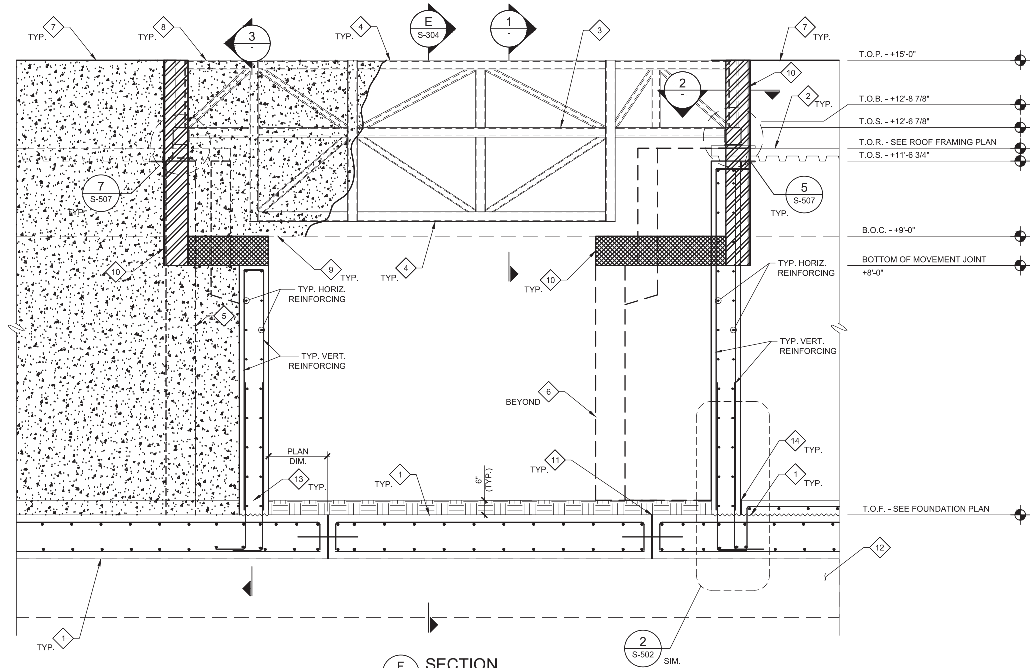

E SECTION
S-101
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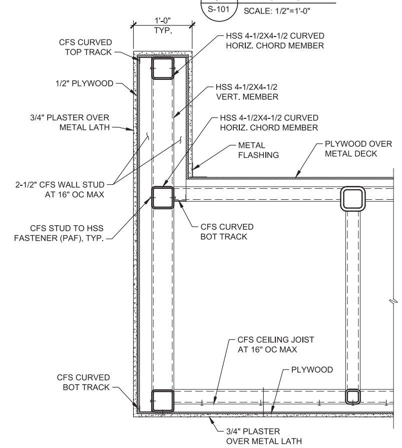

F SECTION
S-101
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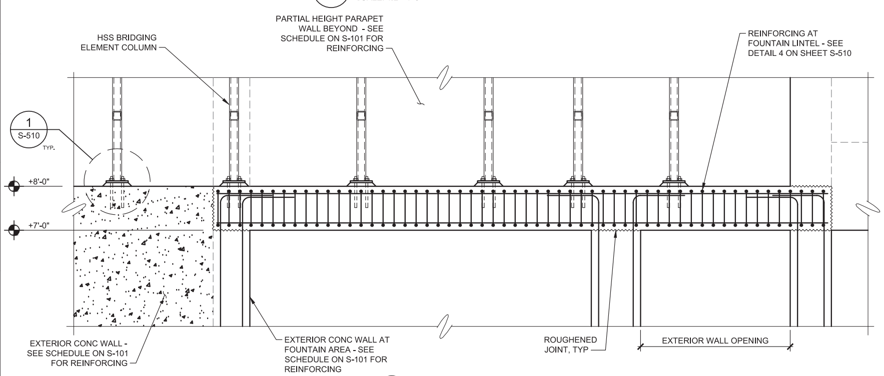
1 SECTION
SCALE: 1"=1'-0"



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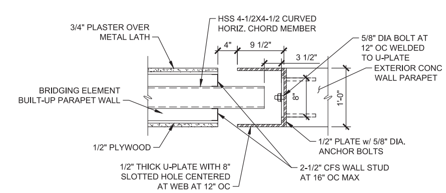

2 SECTION
SCALE: 1"=1'-0"

KEYNOTES:

1. CONCRETE MAT FOUNDATION - FOR REINFORCING SEE SHEET S-101
2. CONCRETE FILLED METAL ROOF DECK - SEE SHEET S-102 AND PROJECT SPECIFICATIONS FOR DECK TYPE. PROVIDE 1" SEPARATION BETWEEN DECK EDGE AND EXTERIOR CONCRETE WALLS.
3. METAL ROOF DECK - 20 GAUGE, 1 1/2" DEEP PLB-36 w/ VSC @ 12" OR APPROVED EQUAL. SEE DETAIL 5 ON SHEET S-505. ROOF DECK TO SPAN AS SHOWN ON THE PLANS. PROVIDE 2% SLOPE TO ROOF DRAINS AS SPECIFIED ON THE ARCHITECTURAL PLANS.
4. EAST BUILDING ROOF BRIDGE FRAMING - SEE SHEET S-102A FOR SHAPES, SIZES AND LOCATION.
5. CAST-IN-PLACE INTERIOR CONCRETE SHEAR WALL - SEE SHEET S-101 FOR REINF.
6. CAST-IN-PLACE EXTERIOR CONCRETE WALL - SEE SHEET S-101 FOR REINF.
7. PARAPET AT CAST-IN-PLACE EXTERIOR CONCRETE WALL - SEE SHEET S-101 FOR REINF.
8. PARAPET WALL AT ROOF BRIDGE - SEE DETAIL 1 ON THIS SHEET
9. DROP-DOWN CEILING
10. SEISMIC EXPANSION JOINT - SEE DETAIL 2 ON THIS SHEET
11. JOINT SEALANT
12. OVEREXCAVATION AND RECOMPACTION PER DETAIL 1 ON SHEET S-509 - REFER TO GEOTECHNICAL REPORT FOR ADDITIONAL INFORMATION
13. ROUGHENED JOINT
14. 1/2" ISOLATION JOINT PER DETAIL 11 SHEET S-501

REVISION DATES (DESIGN STAGE ONLY)

Sheet Version 3.0

PLANS PREPARED BY:
TETRA TECH, INC.
707 WILSHIRE BLVD. 23RD FLR.
LOS ANGELES, CA 90017
PHONE: (213) 239-8866

CITY OF LOS ANGELES
DEPARTMENT OF PUBLIC WORKS
BUREAU OF ENGINEERING

VERT. CONTROL: BM 12-04070, 1929 (NGVD29) - 1985 ADJUSTMENT
HORIZ. CONTROL: GPS; PID AE 1704, EPOCH 1991.35

SHEET TITLE: EAST BUILDING SECTION

PROJECT: SIXTH STREET PARK, ARTS AND RIVER CONNECTIVITY IMPROVEMENTS (PARC)

ADDRESS: SIXTH STREET OVER THE LOS ANGELES RIVER

GARY LEE MOORE, P.E., ENV SP — CITY ENGINEER — DATE:
DESIGN GROUP
ENGINEER: MICHAEL OLSEN — LIC. NO.
DESIGNED BY: JUSTIN SMITH
DRAWN BY: BRETT BOEHMKE
CHECKED BY: NATE SCHREINER
APPROVED BY: JASON L. FUSSEL

THIS PLAN WAS ELECTRONICALLY SIGNED AND STAMPED

REGISTERED PROFESSIONAL ENGINEER — MICHAEL S. OLSEN — No. 81944 — CIVIL — STATE OF CALIFORNIA

NO. | REVISIONS | DATE | BY

INDEX NO.

BUILDING NO.

ENGINEERING — CITY OF LOS ANGELES

WORK ORDER NO. E700235D
FILE NO. --
DRAWING NO.
S-304
SHEET 242 OF 295 SHEETS

7/11/2022 2:39:03 PM - O:\PROJECTS\IRVINE\20043\200-20043-17001\CAD\SHEETFILES\S-304_BUILDING SECTION.DWG - BOEHMKE, BRETT

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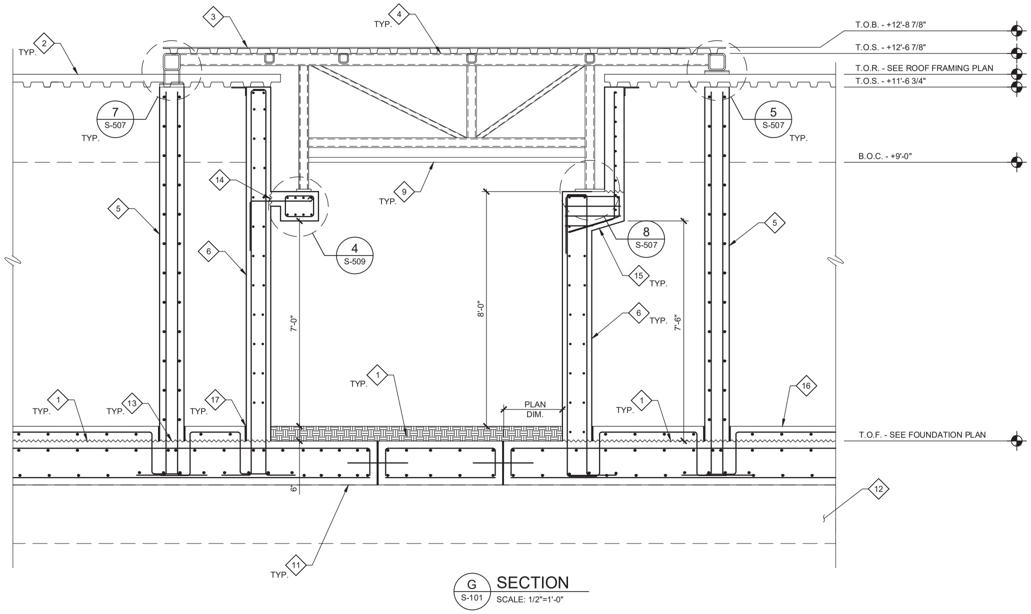

G S-101 SECTION
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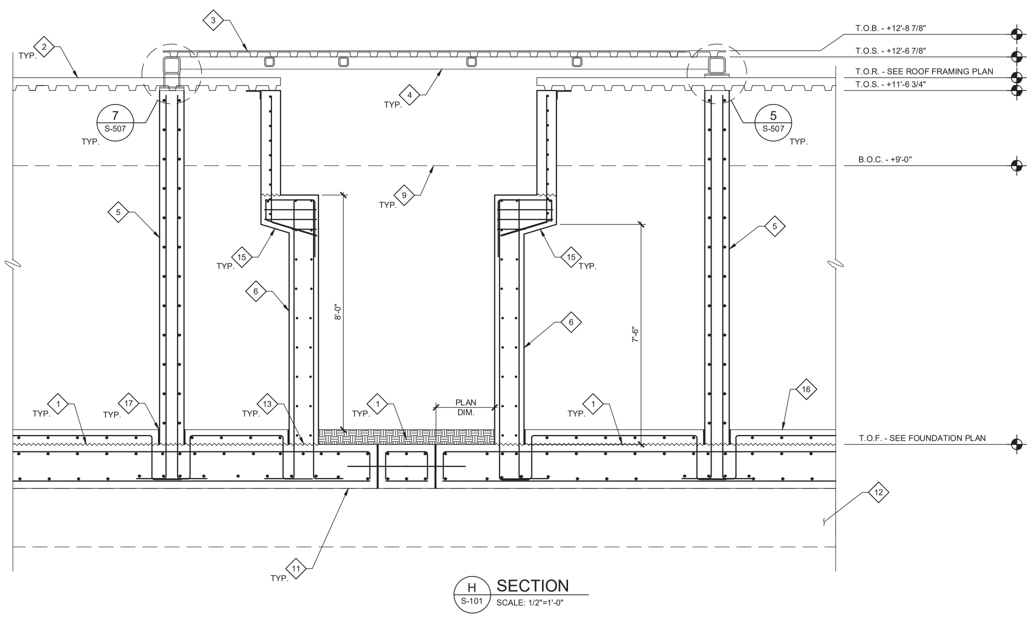


H S-101 SECTION
SCALE: 1/2"=1'-0"

KEYNOTES:

1. CONCRETE MAT FOUNDATION - FOR REINFORCING SEE SHEET S-101
2. CONCRETE FILLED METAL ROOF DECK - SEE SHEET S-102 AND PROJECT SPECIFICATIONS FOR DECK TYPE. PROVIDE 1" SEPARATION BETWEEN DECK EDGE AND EXTERIOR CONCRETE WALLS.
3. METAL ROOF DECK - 20 GAUGE, 1 1/2" DEEP PLB-36 w/ VSC @ 12" OR APPROVED EQUAL. SEE DETAIL 5 ON SHEET X. ROOF DECK TO SPAN AS SHOWN ON THE PLANS. PROVIDE 2% SLOPE TO ROOF DRAINS AS SPECIFIED ON THE ARCHITECTURAL PLANS.
4. EAST BUILDING ROOF BRIDGE FRAMING - SEE SHEET S-102A FOR SHAPES, SIZES AND LOCATION.
5. CAST-IN-PLACE INTERIOR CONCRETE SHEAR WALL - SEE SHEET S-101 FOR REINF.
6. CAST-IN-PLACE EXTERIOR CONCRETE WALL - SEE SHEET S-101 FOR REINF.
7. PARAPET AT CAST-IN-PLACE EXTERIOR CONCRETE WALL - SEE SHEET S-101 FOR REINF.
8. SHOTCRETE PARAPET WALL AT ROOF BRIDGE - SEE SHEET X FOR REINF.
9. DROP-DOWN CEILING
10. 2" THICK SEISMIC EXPANSION JOINT
11. JOINT SEALANT
12. OVEREXCAVATION AND RECOMPACTION PER DETAIL 1 ON SHEET S-509 - REFER TO GEOTECHNICAL REPORT FOR ADDITIONAL INFORMATION
13. ROUGHENED JOINT
14. CONTROL JOINT
15. CONCRETE CORBEL - SEE DETAIL 5 ON S-510
16. CONCRETE SLAB INFILL - SEE SHEET S-101 FOR REINFORCING
17. 1/2" ISOLATION JOINT PER DETAIL 11 SHEET S-501

REVISION DATES (DESIGN STAGE ONLY)

Sheet Version 3.0

PLANS PREPARED BY:
TETRA TECH, INC.
707 WILSHIRE BLVD, 23RD FLR.
LOS ANGELES, CA 90017
PHONE: (213) 239-8866

CITY OF LOS ANGELES — DEPARTMENT OF PUBLIC WORKS — BUREAU OF ENGINEERING

VERT. CONTROL: BM 12-04070, 1929 (NGVD29) - 1985 ADJUSTMENT
HORIZ. CONTROL: GPS; PID AE 1704, EPOCH 1991.35

SHEET TITLE: EAST BUILDING SECTION

PROJECT: SIXTH STREET PARK, ARTS AND RIVER CONNECTIVITY IMPROVEMENTS (PARC)
ADDRESS: SIXTH STREET OVER THE LOS ANGELES RIVER

GARY LEE MOORE, P.E., ENV SP — CITY ENGINEER
DESIGN GROUP — DATE:
ENGINEER: MICHAEL OLSEN — LIC. NO.
DESIGNED BY: JUSTIN SMITH
DRAWN BY: XXXX
CHECKED BY: NATE SCHREINER
APPROVED BY: JASON L. FUSSEL

THIS PLAN WAS ELECTRONICALLY SIGNED AND STAMPED

REGISTERED PROFESSIONAL ENGINEER — MICHAEL S. OLSEN — No. 81944 — CIVIL — STATE OF CALIFORNIA

NO. | REVISIONS: | DATE: | BY:

INDEX NO.

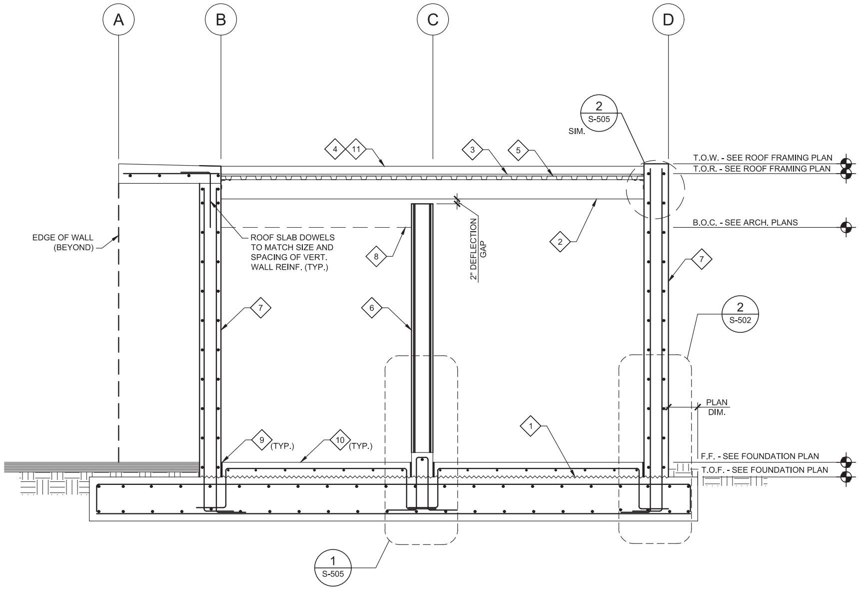
BUILDING NO.

ENGINEERING — CITY OF LOS ANGELES

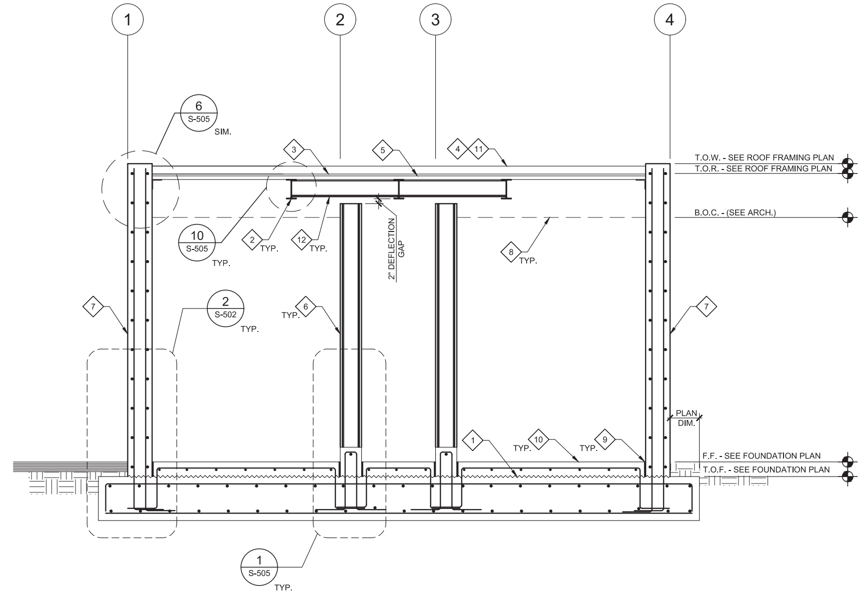
WORK ORDER NO. E700235D
FILE NO. --
DRAWING NO. S-304A
SHEET 243 OF 295 SHEETS

7/11/2022 5:54:30 PM - C:\USERS\MARK.NAYRA\ONEDRIVE - TETRA TECH, INC\DESKTOP\PROJECT BACKUPS\6TH STREET\FINAL FILES\FINAL DRAWINGS\S-304A_EAST BUILDING SECTION.DWG - NAYRA, MARK

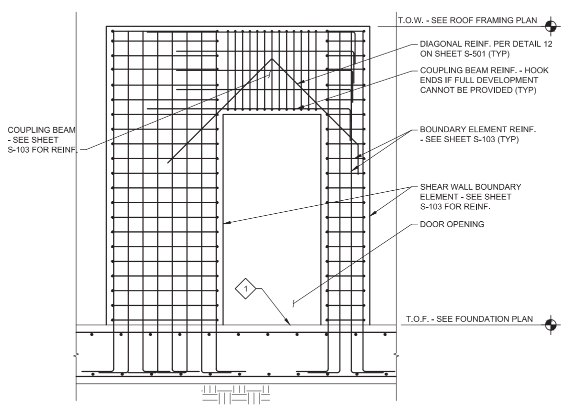
BID SET - NOT FOR CONSTRUCTION



A S-103 SECTION
SCALE: 1/2"=1'-0"



B S-103 SECTION
SCALE: 1/2"=1'-0"



C S-103 ELEVATION
SCALE: 1/2"=1'-0"

KEYNOTES:

1. CONCRETE MAT FOUNDATION - SEE SHEET S-103 FOR MORE INFORMATION.
2. ROOF FRAMING - SEE SHEET S-103 FOR LOCATION, TYPE AND SIZE.
3. PLYWOOD SHEATHING - SEE SHEET S-103 FOR MORE INFORMATION.
4. MEMBRANE ROOFING - SEE SHEET S-103 FOR MORE INFORMATION.
5. METAL DECKING - SEE SHEET S-103 FOR MORE INFORMATION.
6. METAL STUD WALL - SEE ARCHITECTURAL DRAWINGS FOR ALL WALL DETAILS. BRACE TOP OF WALL PER DETAIL 4 SHEET S-505.
7. CAST-IN-PLACE EXTERIOR CONCRETE WALL - SEE SHEET S-103 FOR REINF.
8. DROP DOWN CEILING
9. 1/2" ISOLATION JOINT PER DETAIL 11 SHEET S-501
10. SLAB ON GRADE - SEE SHEET S-103 FOR MORE INFORMATION.
11. ROOF INSULATION - SEE ARCH.
12. C7 SUPPLEMENTAL ROOF FRAMING PER PLAN.

CFS INFILL STUD WALL, PARTITION WALLS AND CEILING NOTES:

1. SCHEMATIC DETAILS SHOWN ON ARCHITECTURAL DRAWINGS. GENERAL CONTRACTOR (GC) SHALL PROVIDE DETAILS (INCLUDING STUD SIZES, CONNECTIONS, ETC.), STRUCTURAL CALCULATIONS AND SHOP DRAWINGS. GC TO SUBMIT FOR REVIEW PRIOR TO FABRICATION.
2. STRUCTURAL CALCULATIONS SHALL BE SIGNED AND STAMPED BY A DULY LICENSED CIVIL OR STRUCTURAL ENGINEER IN THE STATE OF CALIFORNIA.
3. ALTERNATE CONNECTION DETAILS MAY BE SUBMITTED FOR REVIEW.
4. CFS DETAILS NOT SHOWN OR CALLED OUT ON STRUCTURAL DRAWINGS FOR CLARITY.

0 1'-0" 2'-0" 4'-0"
SCALE: 1/2" = 1'-0"

REVISION DATES (DESIGN STAGE ONLY)

Sheet Version 3.0

PLANS PREPARED BY:
TETRA TECH, INC.
707 WILSHIRE BLVD. 23RD FLR.
LOS ANGELES, CA 90017
PHONE: (213) 239-8866

CITY OF LOS ANGELES — DEPARTMENT OF PUBLIC WORKS — BUREAU OF ENGINEERING

VERT. CONTROL: BM 12-04070, 1929 (NGVD29) - 1985 ADJUSTMENT
HORIZ. CONTROL: GPS, PID AE 1704, EPOCH 1991.35

SHEET TITLE: WEST RESTROOM BUILDING SECTION 1
PROJECT: SIXTH STREET PARK, ARTS AND RIVER CONNECTIVITY IMPROVEMENTS (PARC)
ADDRESS: SIXTH STREET OVER THE LOS ANGELES RIVER

GARY LEE MOORE, P.E., ENV SP — CITY ENGINEER — DATE:
DESIGN GROUP
ENGINEER: MICHAEL OLSEN — LIC. NO.
DESIGNED BY: JUSTIN SMITH
DRAWN BY: BRETT BOEHMKE
CHECKED BY: NATE SCHREINER
APPROVED BY: JASON L. FUSSEL

• THIS PLAN WAS ELECTRONICALLY SIGNED AND STAMPED •

REGISTERED PROFESSIONAL ENGINEER — MICHAEL S. O. OLSEN — No. 81944 — CIVIL — STATE OF CALIFORNIA

NO.	REVISIONS:	DATE:	BY:

INDEX NO.

BUILDING NO.

ENGINEERING — CITY OF LOS ANGELES

WORK ORDER NO. E700235D
FILE NO. --
DRAWING NO. S-305
SHEET 244 OF 295 SHEETS

7/11/2022 5:04:52 PM - O:\PROJECTS\IRVINE\20043\200-20043-17001\CAD\SHEETFILES\S-305_WEST BUILDING SECTION.DWG - BOEHMKE, BRETT

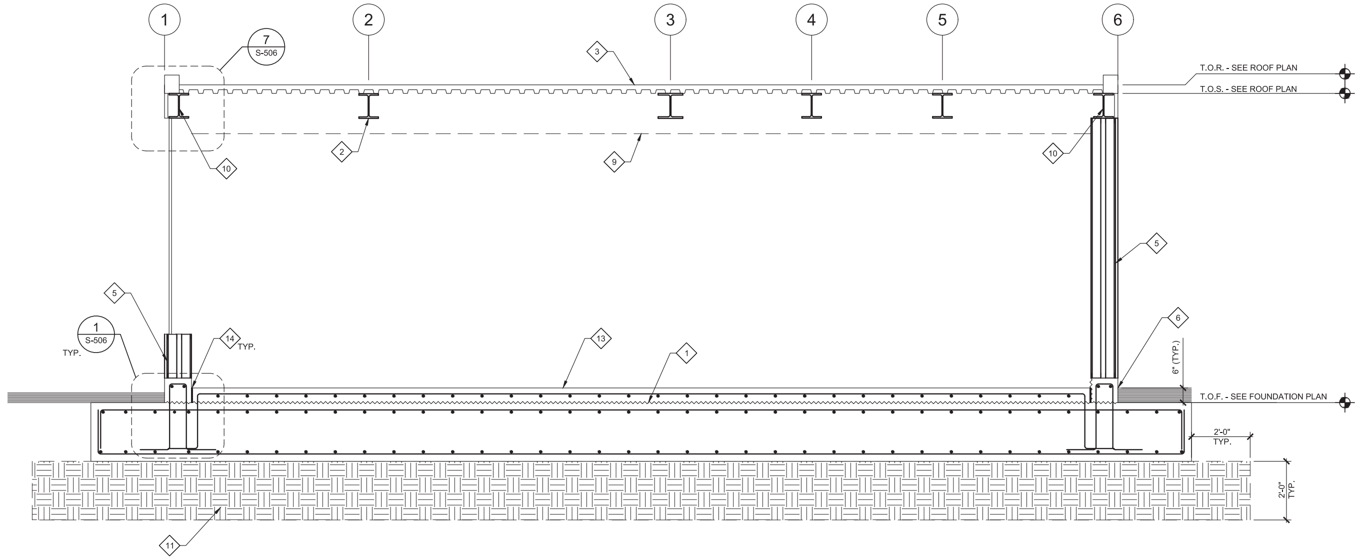
BID SET - NOT FOR CONSTRUCTION

KEYNOTES:

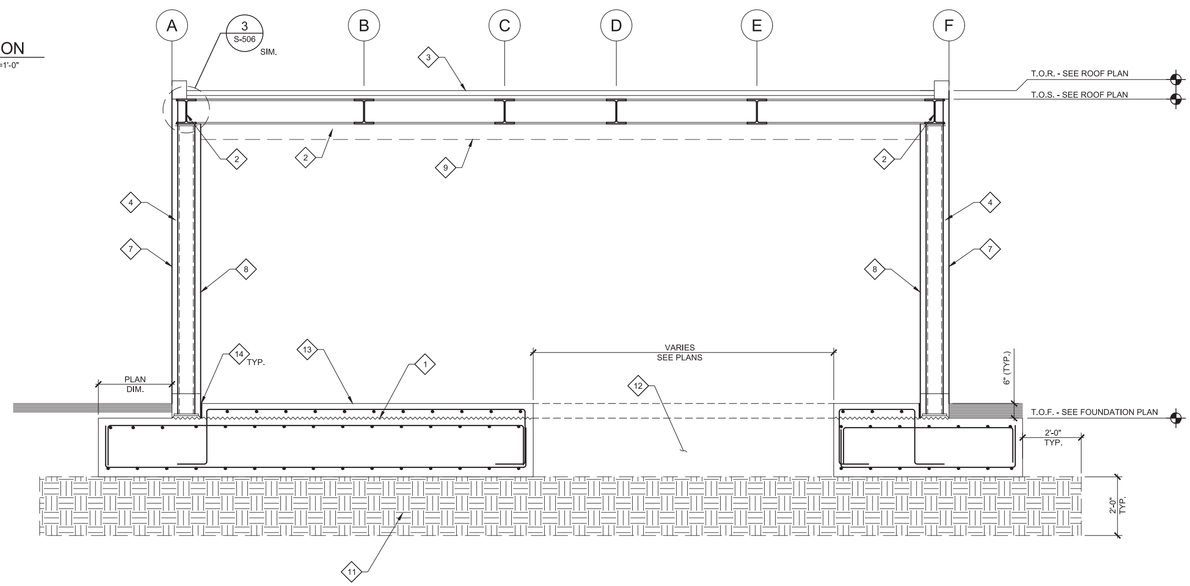
1. CONCRETE MAT FOUNDATION - SEE SHEET S-104 FOR MORE INFORMATION.
2. ROOF FRAMING - SEE SHEET S-104 FOR LOCATION, TYPE AND SIZE.
3. CONCRETE FILLED METAL ROOF DECK - SEE SHEET S-104 FOR MORE INFORMATION.
4. HSSx COLUMN - SEE SHEET S-104 FOR SIZES AND LOCATIONS.
5. COLD-FORMED STEEL WALL
6. 4" CONCRETE CURB
7. EXTERIOR STUCCO
8. GYPSUM WALL BOARD
9. DROP DOWN CEILING
10. CURVED PERIMETER Wx BEAM - SEE SHEET S-104 FOR LOCATION AND SIZE.
11. OVEREXCAVATION AND RECOMPACTION PER DETAIL 1 ON SHEET S-509 - REFER TO GEOTECHNICAL REPORT FOR ADDITIONAL INFORMATION
12. GRAVEL PIT OPENING AT MAT SLAB - SEE ARCHITECTURAL AND MECHANICAL PLANS FOR MORE INFORMATION
13. CONCRETE SLAB INFILL - SEE SHEET S-104 FOR REINFORCING
14. 1/2" ISOLATION JOINT PER DETAIL 11 SHEET S-501

CFS INFILL STUD WALL, PARTITION WALLS AND CEILING NOTES:

1. SCHEMATIC DETAILS SHOWN ON ARCHITECTURAL DRAWINGS. GENERAL CONTRACTOR (GC) SHALL PROVIDE DETAILS (INCLUDING STUD SIZES, CONNECTIONS, ETC.), STRUCTURAL CALCULATIONS AND SHOP DRAWINGS. GC TO SUBMIT FOR REVIEW PRIOR TO FABRICATION.
2. STRUCTURAL CALCULATIONS SHALL BE SIGNED AND STAMPED BY A DULY LICENSED CIVIL OR STRUCTURAL ENGINEER IN THE STATE OF CALIFORNIA.
3. ALTERNATE CONNECTION DETAILS MAY BE SUBMITTED FOR REVIEW.
4. CFS DETAILS NOT SHOWN OR CALLED OUT ON STRUCTURAL DRAWINGS FOR CLARITY.



A S-103 SECTION
SCALE: 1/2"=1'-0"



B S-103 SECTION
SCALE: 1/2"=1'-0"

PLANS PREPARED BY:
TETRA TECH, INC.
707 WILSHIRE BLVD, 23RD FLR.
LOS ANGELES, CA 90017
PHONE: (213) 239-8866

CITY OF LOS ANGELES DEPARTMENT OF PUBLIC WORKS BUREAU OF ENGINEERING

VERT. CONTROL: BM 12-04070, 1929 (NGVD29) - 1985 ADJUSTMENT
HORIZ. CONTROL: GPS; PID AE 1704, EPOCH 1991.35

SHEET TITLE: WEST CAFE BUILDING SECTION
PROJECT: SIXTH STREET PARK, ARTS AND RIVER CONNECTIVITY IMPROVEMENTS (PARC)
ADDRESS: SIXTH STREET OVER THE LOS ANGELES RIVER

GARY LEE MOORE, P.E., ENV SP — CITY ENGINEER — DATE:
DESIGN GROUP
ENGINEER: MICHAEL OLSEN — LIC. NO.
DESIGNED BY: JUSTIN SMITH
DRAWN BY: BRETT BOEHMKE
CHECKED BY: NATE SCHREINER
APPROVED BY: JASON L. FUSSEL

THIS PLAN WAS ELECTRONICALLY SIGNED AND STAMPED
REGISTERED PROFESSIONAL ENGINEER — MICHAEL S. O. OLSEN — No. 81944 — CIVIL — STATE OF CALIFORNIA

NO. | REVISIONS: | DATE: | BY:
INDEX NO.
BUILDING NO.

ENGINEERING CITY OF LOS ANGELES

WORK ORDER NO. E700235D
FILE NO. –
DRAWING NO. S-306
SHEET 245 OF 295 SHEETS

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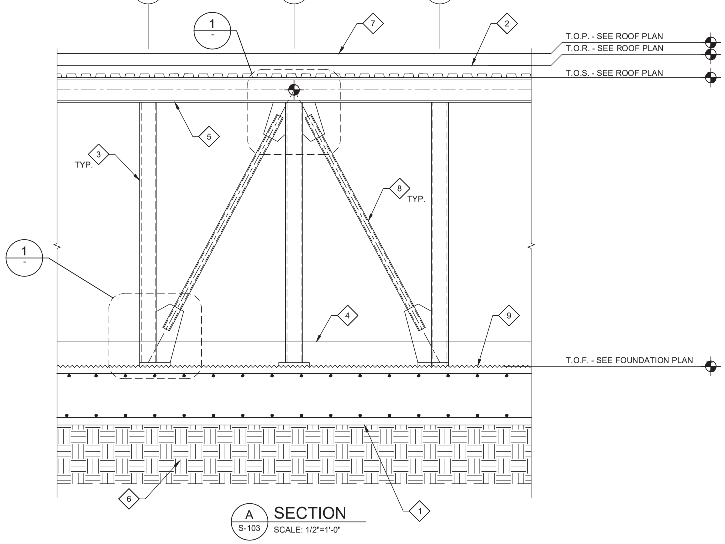
BID SET - NOT FOR CONSTRUCTION

KEYNOTES: ◇

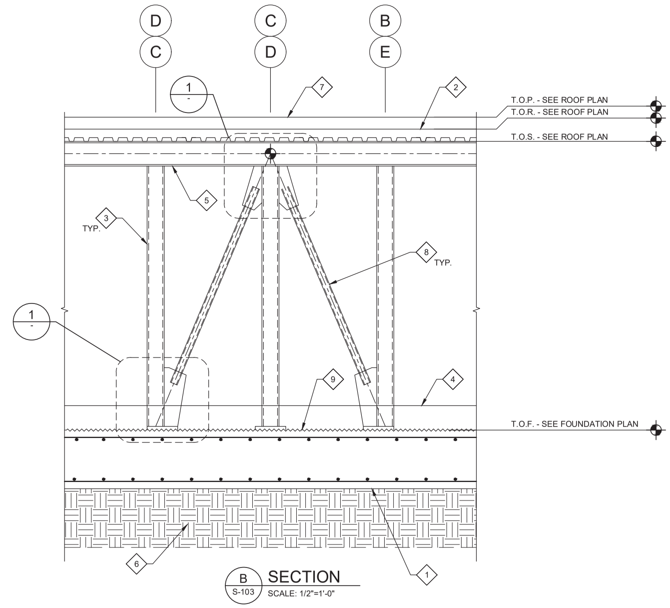
1. CONCRETE MAT FOUNDATION - SEE SHEET S-104 FOR MORE INFORMATION.
2. CONCRETE FILLED METAL ROOF DECK - SEE SHEET S-104 FOR MORE INFORMATION.
3. HSSx COLUMN - SEE SHEET S-104 FOR SIZES AND LOCATIONS.
4. 4" CONCRETE CURB
5. CURVED PERIMETER Wx BEAM - SEE SHEET S-104 FOR LOCATION AND SIZE.
6. OVEREXCAVATION AND RECOMPACTION PER DETAIL 1 ON SHEET S-509 - REFER TO GEOTECHNICAL REPORT FOR ADDITIONAL INFORMATION
7. PARAPET - SEE ARCH DRAWINGS FOR MORE INFORMATION
8. HSSx VERTICAL BRACE - SEE SHEET S-104 FOR SIZES AND LOCATIONS
9. ROUGHENED JOINT

CFS INFILL STUD WALL, PARTITION WALLS AND CEILING NOTES:

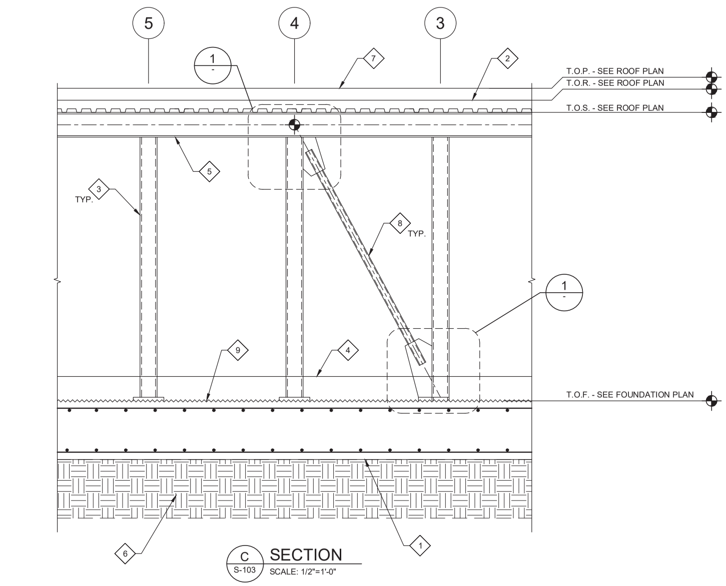
1. SCHEMATIC DETAILS SHOWN ON ARCHITECTURAL DRAWINGS. GENERAL CONTRACTOR (GC) SHALL PROVIDE DETAILS (INCLUDING STUD SIZES, CONNECTIONS, ETC.), STRUCTURAL CALCULATIONS AND SHOP DRAWINGS. GC TO SUBMIT FOR REVIEW PRIOR TO FABRICATION.
2. STRUCTURAL CALCULATIONS SHALL BE SIGNED AND STAMPED BY A DULY LICENSED CIVIL OR STRUCTURAL ENGINEER IN THE STATE OF CALIFORNIA.
3. ALTERNATE CONNECTION DETAILS MAY BE SUBMITTED FOR REVIEW.
4. CFS DETAILS NOT SHOWN OR CALLED OUT ON STRUCTURAL DRAWINGS FOR CLARITY.



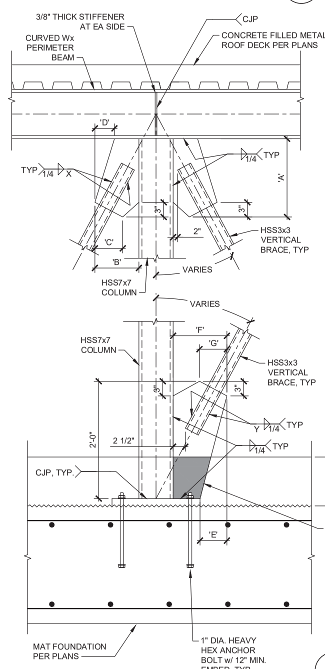
A SECTION
S-103 SCALE: 1/2"=1'-0"



B SECTION
S-103 SCALE: 1/2"=1'-0"



C SECTION
S-103 SCALE: 1/2"=1'-0"

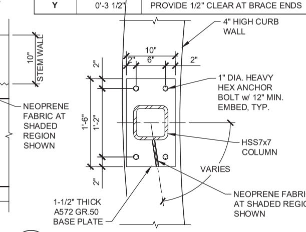


GUSSET PLATE SCHEDULE (GRID 3/4/5)

ID	DIMENSION	REMARKS
A	1'-4"	3/8" THICK A572 GR.50 GUSSET PLATE
B	0'-9"	3/8" THICK A572 GR.50 GUSSET PLATE
C	0'-5 1/2"	3/8" THICK A572 GR.50 GUSSET PLATE
D	0'-4"	3/8" THICK A572 GR.50 GUSSET PLATE
E	0'-5 1/2"	3/8" THICK A572 GR.50 GUSSET PLATE
F	0'-11"	3/8" THICK A572 GR.50 GUSSET PLATE
G	0'-6"	3/8" THICK A572 GR.50 GUSSET PLATE
X	0'-6"	PROVIDE 1/2" CLEAR AT BRACE ENDS
Y	0'-8 1/2"	PROVIDE 1/2" CLEAR AT BRACE ENDS

GUSSET PLATE SCHEDULE (GRID B/C/D/E)

ID	DIMENSION	REMARKS
A	1'-6"	3/8" THICK A572 GR.50 GUSSET PLATE
B	0'-9"	3/8" THICK A572 GR.50 GUSSET PLATE
C	0'-7 1/2"	3/8" THICK A572 GR.50 GUSSET PLATE
D	0'-5"	3/8" THICK A572 GR.50 GUSSET PLATE
E	0'-3 1/2"	3/8" THICK A572 GR.50 GUSSET PLATE
F	0'-9"	3/8" THICK A572 GR.50 GUSSET PLATE
G	0'-7"	3/8" THICK A572 GR.50 GUSSET PLATE
X	0'-3 3/4"	PROVIDE 1/2" CLEAR AT BRACE ENDS
Y	0'-3 1/2"	PROVIDE 1/2" CLEAR AT BRACE ENDS



1 BRACE FRAME DETAILS
SCALE: 1"=1'-0"

PLANS PREPARED BY:
TETRA TECH, INC.
707 WILSHIRE BLVD. 23RD FLR.
LOS ANGELES, CA 90017
PHONE: (213) 239-8866

CITY OF LOS ANGELES — DEPARTMENT OF PUBLIC WORKS — BUREAU OF ENGINEERING

VERT. CONTROL: BM 12-04070, 1929 (NGVD29) - 1985 ADJUSTMENT
HORIZ. CONTROL: GPS; PID AE 1704, EPOCH 1991.35

SHEET TITLE: WEST CAFE BUILDING BRACE FRAME ELEVATIONS
PROJECT: SIXTH STREET PARK, ARTS AND RIVER CONNECTIVITY IMPROVEMENTS (PARC)
ADDRESS: SIXTH STREET OVER THE LOS ANGELES RIVER

GARY LEE MOORE, P.E., ENV SP — CITY ENGINEER
DESIGN GROUP
ENGINEER: MICHAEL OLSEN LIC. NO. C-85736 DATE: 07/11/22
DESIGNED BY: JUSTIN SMITH
DRAWN BY: BRETT BOEHMKE
CHECKED BY: NATE SCHREINER
APPROVED BY: JASON L. FUSSEL

THIS PLAN WAS ELECTRONICALLY SIGNED AND STAMPED.
REGISTERED PROFESSIONAL ENGINEER MICHAEL S. OLSEN No. 81944 CIVIL STATE OF CALIFORNIA

NO.	REVISIONS:	DATE:	BY:

INDEX NO.
BUILDING NO.

ENGINEERING CITY OF LOS ANGELES

WORK ORDER NO. E700235D
FILE NO. --
DRAWING NO. S-306A
SHEET 246 OF 295 SHEETS

7/11/2022 7:40:26 PM - \\TT.LOCAL\IER\PROJECTS\IRVINE\20043\200-20043-17001\CAD\SHEETFILES\S-306A_WEST CAFE BUILDING SECTION.DWG - NAYRA, MARK

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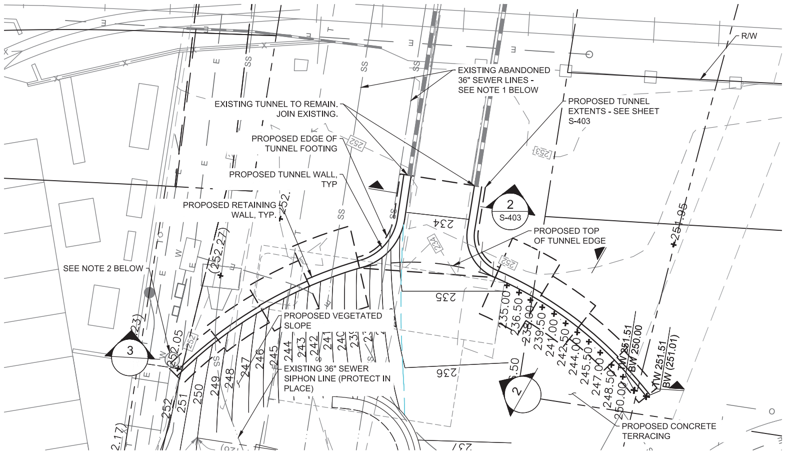
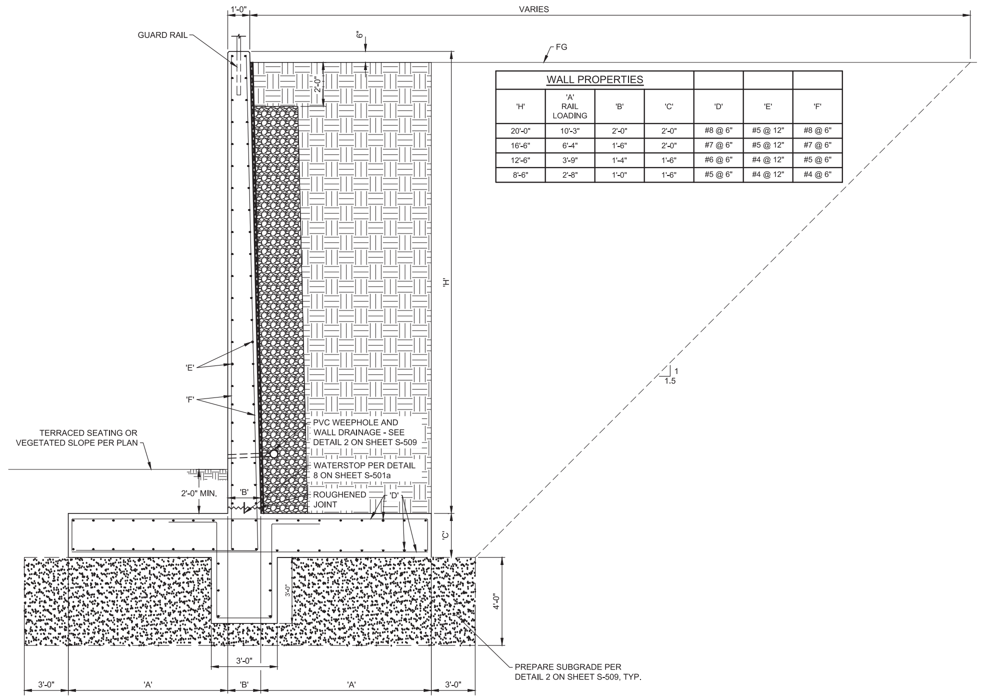


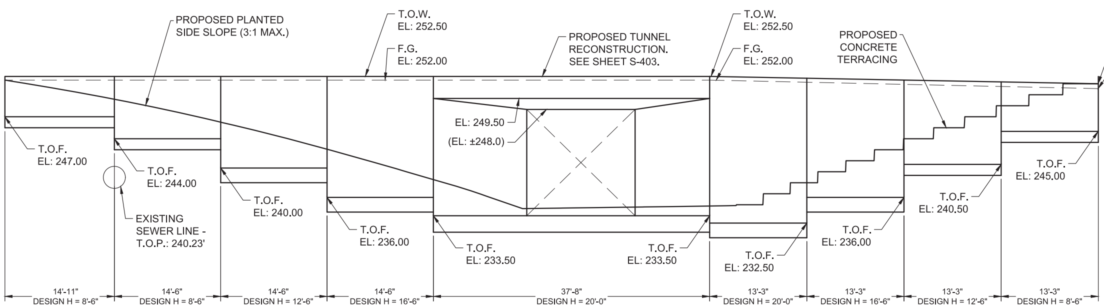
1 RETAINING WALL PLAN LAYOUT
SCALE: 1/16"=1'-0"



WALL PROPERTIES

'H'	'A' RAIL LOADING	'B'	'C'	'D'	'E'	'F'
20'-0"	10'-3"	2'-0"	2'-0"	#8 @ 6"	#5 @ 12"	#8 @ 6"
16'-6"	6'-4"	1'-6"	2'-0"	#7 @ 6"	#5 @ 12"	#7 @ 6"
12'-6"	3'-9"	1'-4"	1'-6"	#6 @ 6"	#4 @ 12"	#5 @ 6"
8'-6"	2'-8"	1'-0"	1'-6"	#5 @ 6"	#4 @ 12"	#4 @ 6"

2 EAST RETANING WALL TYPICAL SECTION (14'-6" WALL SHOWN)
SCALE: 3/8"=1'-0"



NOTES:
1. REMOVE PORTIONS OF EXISTING SEWER LINE THAT CONFLICT WITH PROPOSED RETAINING WALL / TUNNEL. REFER TO DEMOLITION PLANS.
2. REMOVE EXISTING ABANDONED SEWER MANHOLE. REFER TO DEMOLITION PLANS.

3 EAST WALL ELEVATION
SCALE: 1/8"=1'-0"

PLANS PREPARED BY:
TETRA TECH, INC.
707 WILSHIRE BLVD. 23RD FLR.
LOS ANGELES, CA 90017
PHONE: (213) 239-8866

CITY OF LOS ANGELES — DEPARTMENT OF PUBLIC WORKS — BUREAU OF ENGINEERING

VERT. CONTROL: BM 12-04070, 1929 (NGVD29) • 1985 ADJUSTMENT
HORIZ. CONTROL: GPS; PID AE 1704, EPOCH 1991.35

SHEET TITLE: RETAINING WALL FOUNDATION PLAN
PROJECT: SIXTH STREET PARK, ARTS AND RIVER CONNECTIVITY IMPROVEMENTS (PARC)
ADDRESS: SIXTH STREET OVER THE LOS ANGELES RIVER

GARY LEE MOORE, P.E., ENV SP — CITY ENGINEER — DATE:
DESIGN GROUP
ENGINEER: MICHAEL OLSEN — LIC. NO.
DESIGNED BY: JUSTIN SMITH
DRAWN BY: XXXX
CHECKED BY: NATE SCHREINER
APPROVED BY: JASON L. FUSSEL

• THIS PLAN WAS ELECTRONICALLY SIGNED AND STAMPED •

REGISTERED PROFESSIONAL ENGINEER — MICHAEL S. OLSEN — No. 81944 — CIVIL — STATE OF CALIFORNIA

NO. | REVISIONS: | DATE: | BY:

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BUILDING NO.

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WORK ORDER NO. E700235D
FILE NO. –
DRAWING NO. S-401
SHEET 247 OF 295 SHEETS

7/11/2022 2:55:26 PM - O:\PROJECTS\IRVINE\20043\200-20043-17001\CAD\SHEETFILES\S-401_RETAINING WALL FOUNDATION PLAN - TT.DWG - BOEHMKE, BRETT

REVISION DATES (DESIGN STAGE ONLY)

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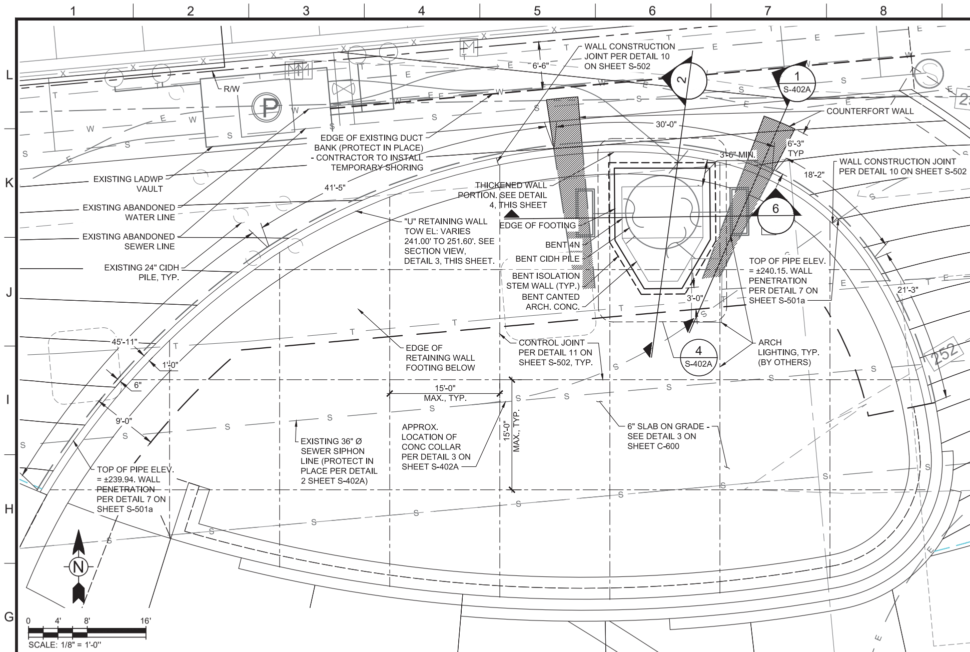
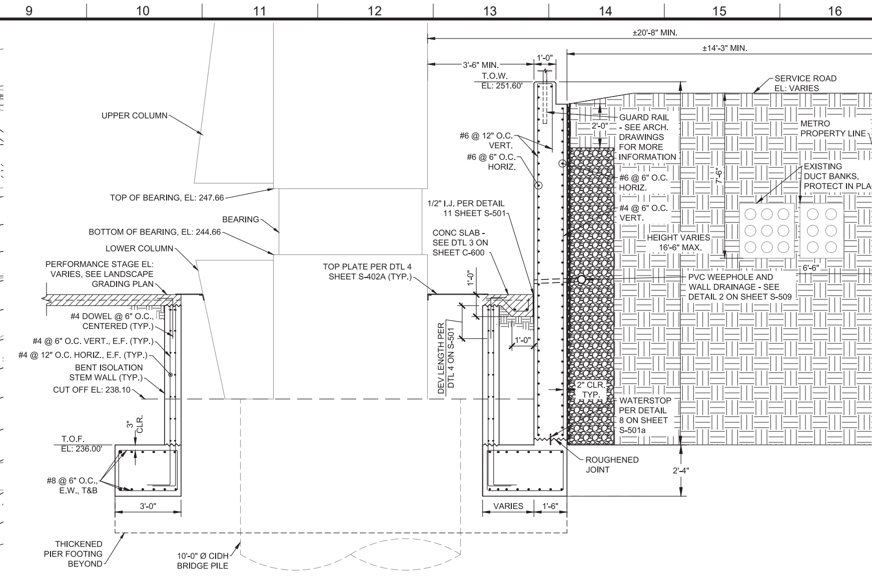
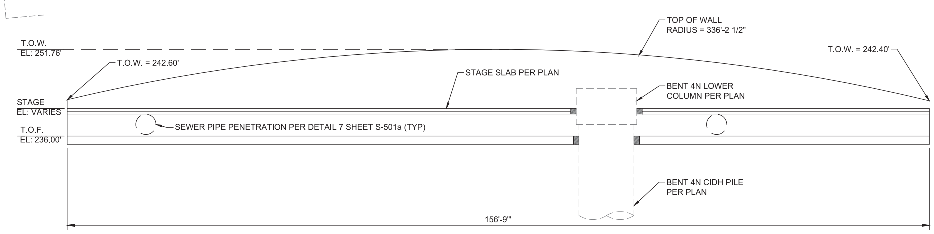


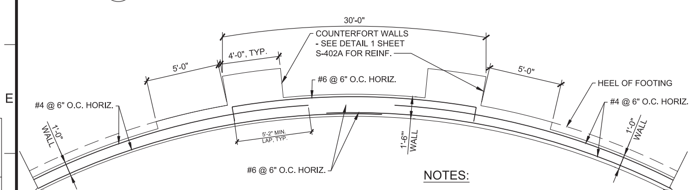
1 "U" RETAINING WALL PLAN
SCALE: 1/8"=1'-0"



2 1'-6" THICKENED "U" RETAINING WALL SECTION WITHOUT FOOTING
SCALE: 3/8"=1'-0"



3 "U" WALL PROFILE
SCALE: NTS



NOTES:

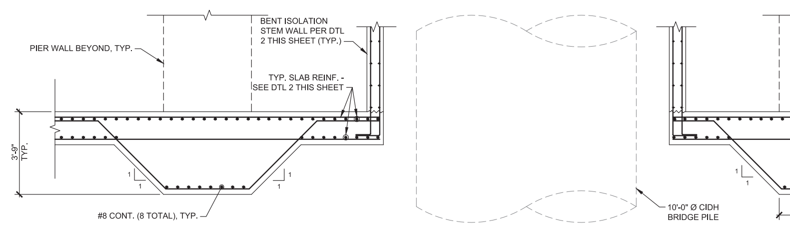
1. VERTICAL BARS NOT SHOWN. SEE DETAILS 2 AND 5 FOR WALL SECTIONS

4 THCKENED "U" RETAINING WALL REINFORCING PLAN
SCALE: 1/4"=1'-0"

DIMENSION AND REINFORCEMENT SCHEDULE		
H	HORIZ. REINF.	VERT. REINF.
8'-0" ≥ H	#4 HORIZ. @ 6" O.C.	#7 VERT. @ 12" O.C.
10'-0" ≥ H > 8'-0"	#4 HORIZ. @ 6" O.C.	#7 VERT. @ 6" O.C.
11'-0" ≥ H > 10'-0"	#4 HORIZ. @ 6" O.C.	#7 VERT. @ 12" O.C.
14'-0" ≥ H > 11'-0"	#4 HORIZ. @ 6" O.C.	#7 VERT. @ 12" O.C.
15'-0" ≥ H > 14'-0"	#4 HORIZ. @ 6" O.C.	#6 VERT. @ 12" O.C.
16'-0" ≥ H > 15'-0"	#6 HORIZ. @ 6" O.C.	#6 VERT. @ 12" O.C.

U-WALL RETAINING WALL CONSTRUCTION NOTES:

1. EXISTING DUCT BANKS SHALL BE PROTECTED IN PLACE DURING CONSTRUCTION. THE GENERAL CONTRACTOR (GC) IS RESPONSIBLE FOR PROVIDING TEMPORARY SHORING FOR THE EXCAVATION THAT DOES NOT IMPACT THE EXISTING STRUCTURE. SHOULD TEMPORARY SHORING BE REQUIRED FOR EXCAVATION FOR SECTIONS OF WALL TO OCCUR BEHIND THE DUCT BANKS, THE GC SHALL IMPLEMENT TEMPORARY SUPPORTS AND BRACING SO THAT EXISTING DUCT BANKS ARE NOT DAMAGED. STRUCTURAL CALCULATIONS AND SCHEMATIC PLANS SHALL BE SUBMITTED TO THE OWNER AND ENGINEER FOR APPROVAL PRIOR TO CONSTRUCTION.
2. RETAINING WALL LOCATED CLOSER TO THE PROPERTY LINE THAN THE HEIGHT OF THE WALL SHALL BE BACKFILLED NO LATER THAN 10 DAYS AFTER CONSTRUCTION OF THE WALL HAS BEEN COMPLETED.



6 THICKENED WALL PIER FOOTING SECTION
SCALE: 3/8"=1'-0"

PLANS PREPARED BY:
TETRA TECH, INC.
707 WILSHIRE BLVD. 23RD FLR.
LOS ANGELES, CA 90017
PHONE: (213) 239-8866

CITY OF LOS ANGELES DEPARTMENT OF PUBLIC WORKS BUREAU OF ENGINEERING

VERT. CONTROL: BM 12-04070, 1929 (NGVD29) - 1985 ADJUSTMENT
HORIZ. CONTROL: GPS; PID AE 1704, EPOCH 1991.35

SHEET TITLE: "U" RETAINING WALL FOUNDATION PLAN
PROJECT: SIXTH STREET PARK, ARTS AND RIVER CONNECTIVITY IMPROVEMENTS (PARC)
ADDRESS: SIXTH STREET OVER THE LOS ANGELES RIVER

GARY LEE MOORE, P.E., ENV SP — CITY ENGINEER
DESIGN GROUP
ENGINEER: MICHAEL OLSEN — LIC. NO.
DESIGNED BY: JUSTIN SMITH
DRAWN BY: XXXX
CHECKED BY: NATE SCHREINER
APPROVED BY: JASON L. FUSSEL

THIS PLAN WAS ELECTRONICALLY SIGNED AND STAMPED

REGISTERED PROFESSIONAL ENGINEER MICHAEL S. OLSEN No. 81944 CIVIL STATE OF CALIFORNIA

NO. | REVISIONS | DATE | BY

INDEX NO.

BUILDING NO.

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WORK ORDER NO. E700235D
FILE NO. –
DRAWING NO. S-402
SHEET 248 OF 295 SHEETS

7/11/2022 3:04:04 PM - O:\PROJECTS\IRVINE\20043\200-20043-17001\CAD\SHEETFILES\S-402_U RETAINING WALL FOUNDATION PLAN - TT.DWG - BOEHMKE, BRETT

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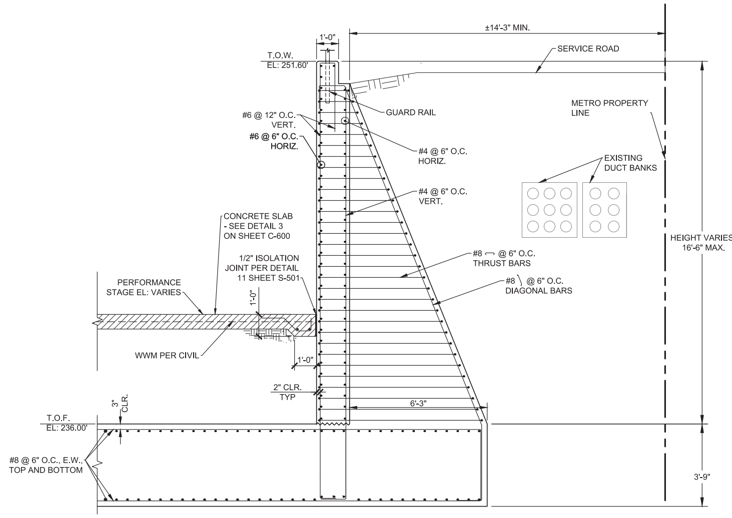
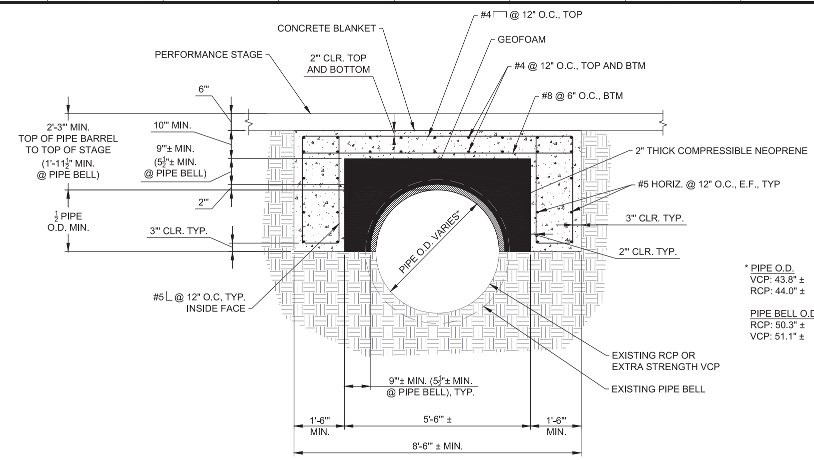


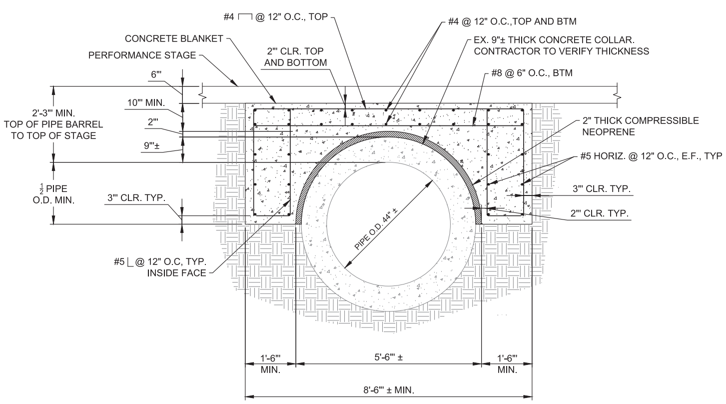
1 COUNTERFORT WALL SECTION
SCALE: 3/8"=1'-0"



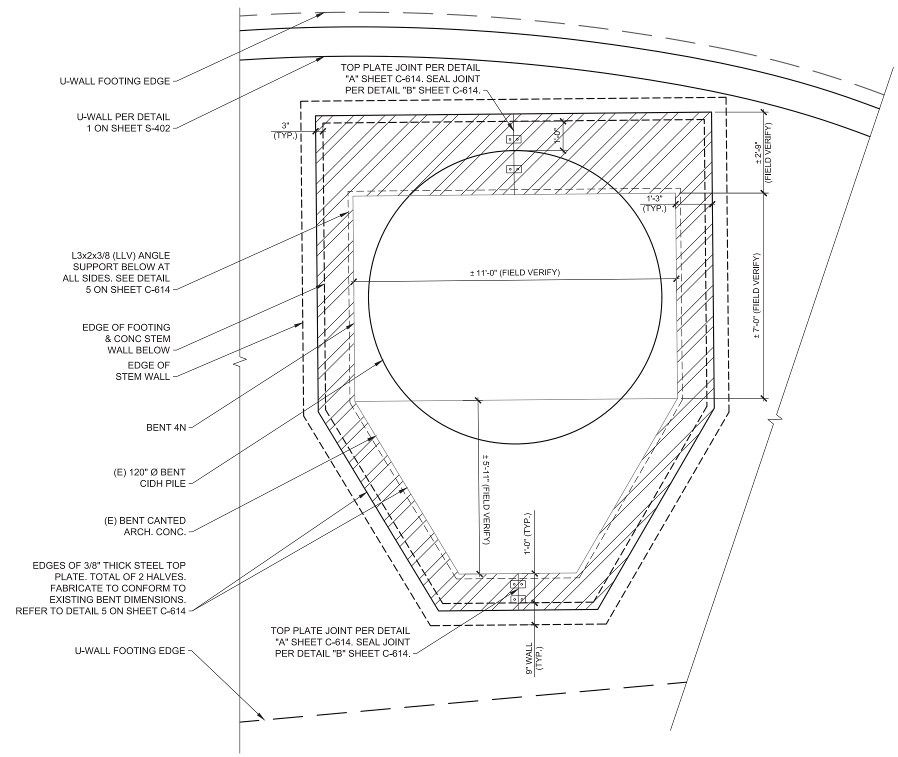
* PIPE O.D.
VCP: 43.8" ±
RCP: 44.0" ±

PIPE BELL O.D.
RCP: 50.3" ±
VCP: 51.1" ±

2 CONCRETE BLANKET DETAIL
SCALE: 1/2"=1'-0"



3 CONCRETE BLANKET AT CONCRETE COLLAR
SCALE: 1/2"=1'-0"



4 BENT ISOLATION ENLARGED PLAN
SCALE: 1/2"=1'-0"

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PLANS PREPARED BY:
TETRA TECH, INC.
707 WILSHIRE BLVD. 23RD FLR.
LOS ANGELES, CA 90017
PHONE: (213) 239-8866

CITY OF LOS ANGELES
DEPARTMENT OF PUBLIC WORKS
BUREAU OF ENGINEERING

ENGINEERING
CITY OF LOS ANGELES

NO.	REVISIONS:	DATE:	BY:

INDEX NO.

BUILDING NO.

THIS PLAN WAS ELECTRONICALLY SIGNED AND STAMPED

REGISTERED PROFESSIONAL ENGINEER
MICHAEL S. OLSEN
No. 81944
CIVIL
STATE OF CALIFORNIA

GARY LEE MOORE, P.E., ENV SP
CITY ENGINEER
DATE:
DESIGN GROUP
ENGINEER: MICHAEL OLSEN LIC. NO.
DESIGNED BY: JUSTIN SMITH
DRAWN BY: XXXX
CHECKED BY: NATE SCHREINER
APPROVED BY: JASON L. FUSSEL

VERT. CONTROL: BM 12-04070, 1929 (NGVD29) - 1985 ADJUSTMENT
HORIZ. CONTROL: GPS, PID AE 1704, EPOCH 1991.35

SHEET TITLE: "U" RETAINING WALL SECTION
PROJECT: SIXTH STREET PARK, ARTS AND RIVER CONNECTIVITY IMPROVEMENTS (PARC)
ADDRESS: SIXTH STREET OVER THE LOS ANGELES RIVER

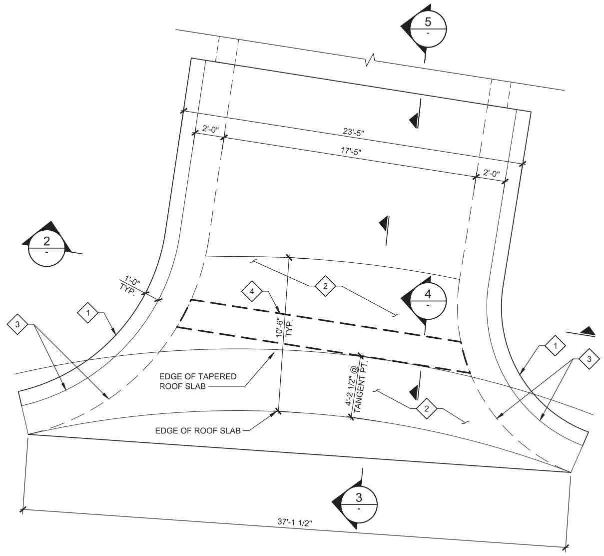
WORK ORDER NO. E700235D
FILE NO. –
DRAWING NO.
S-402A
SHEET 249 OF 295 SHEETS

7/11/2022 3:08:10 PM - O:\PROJECTS\IRVINE\20043\200-20043-17001\CAD\SHEETFILES\S-402A_FOUNDATION.DWG - BOEHMKE, BRETT

BID SET - NOT FOR CONSTRUCTION

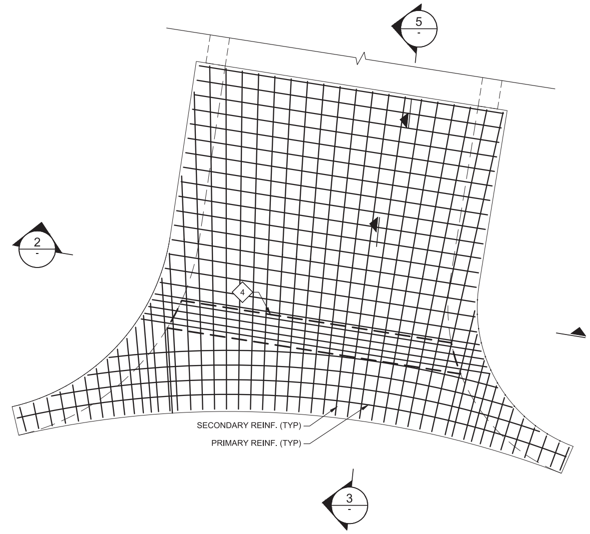
KEYNOTES: ◇

1. 2'-3" THICK MAT FOUNDATION w/ #9 @ 6" O.C., TOP & BOTTOM, EACH WAY.
2. 3'-0" THICK CAST-IN-PLACE CONCRETE ROOF SLAB w/ #9 @ 12" O.C., TOP & BOTTOM, EACH WAY.
3. TUNNEL WALL
4. BOND BEAM PER SECTION 4 THIS SHEET.



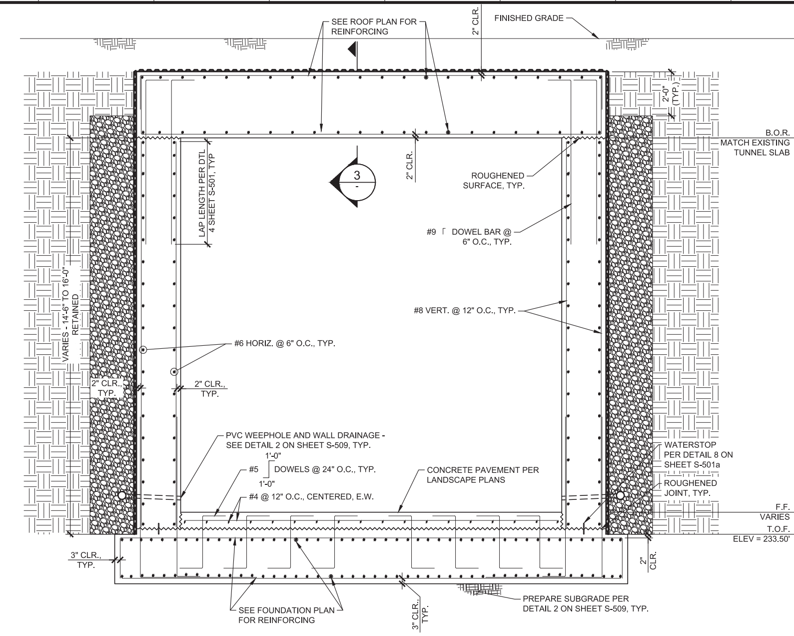
SCALE: 1/4" = 1'-0"

1 TUNNEL PLAN
SCALE: 1/4"=1'-0"



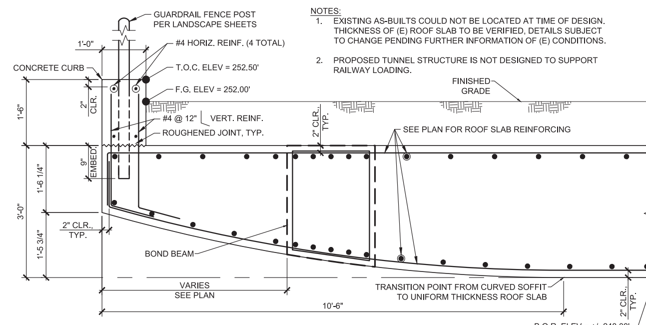
SCALE: 1/4" = 1'-0"

1A TUNNEL ROOF SLAB REINFORCING PLAN
SCALE: 1/4"=1'-0"



2 TUNNEL WALL SECTION
SCALE: 3/8"=1'-0"

NOTES:
1. EXISTING AS-BUILTS COULD NOT BE LOCATED AT TIME OF DESIGN. THICKNESS OF (E) ROOF SLAB TO BE VERIFIED. DETAILS SUBJECT TO CHANGE PENDING FURTHER INFORMATION OF (E) CONDITIONS.
2. PROPOSED TUNNEL STRUCTURE IS NOT DESIGNED TO SUPPORT RAILWAY LOADING.



3 TUNNEL ROOF SLAB SECTION
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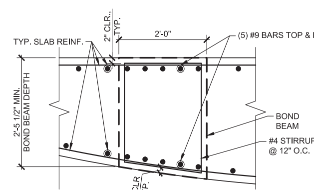
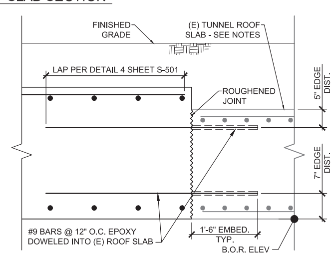


4 TUNNEL BOND BEAM SECTION
SCALE: 3/4"=1'-0"



5 TUNNEL ROOF SLAB CONNECTION TO (E) SLAB
SCALE: 3/4"=1'-0"

PLANS PREPARED BY:

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707 WILSHIRE BLVD. 23RD FLR.
LOS ANGELES, CA 90017
PHONE: (213) 239-8866

CITY OF LOS ANGELES — DEPARTMENT OF PUBLIC WORKS — BUREAU OF ENGINEERING

VERT. CONTROL: BM 12-04070, 1929 (NGVD29) - 1995 ADJUSTMENT
HORIZ. CONTROL: GPS; PID AE 1704, EPOCH 1991.35

SHEET TITLE: TUNNEL DETAILS

PROJECT: SIXTH STREET PARK, ARTS AND RIVER CONNECTIVITY IMPROVEMENTS (PARC)

ADDRESS: SIXTH STREET OVER THE LOS ANGELES RIVER

GARY LEE MOORE, P.E., ENV SP — CITY ENGINEER — DATE:

DESIGN GROUP
ENGINEER: MICHAEL OLSEN — LIC. NO.
DESIGNED BY: JUSTIN SMITH
DRAWN BY: BRETT BOEHMKE
CHECKED BY: NATE SCHREINER
APPROVED BY: JASON L. FUSSEL

* THIS PLAN WAS ELECTRONICALLY SIGNED AND STAMPED

REGISTERED PROFESSIONAL ENGINEER — MICHAEL S. OLSEN — No. 81944 — CIVIL — STATE OF CALIFORNIA

NO. | REVISIONS: | DATE: | BY:

INDEX NO.

BUILDING NO.

WORK ORDER NO. E700235D
FILE NO. --
DRAWING NO. S-403
SHEET 250 OF 295 SHEETS

ENGINEERING — CITY OF LOS ANGELES

7/11/2022 3:14:00 PM - O:\PROJECTS\IRVINE\20043\200-20043-17001\CAD\SHEETFILES\S-403_TUNNEL DETAILS.DWG - BOEHMKE, BRETT

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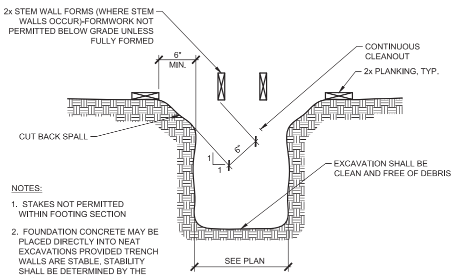
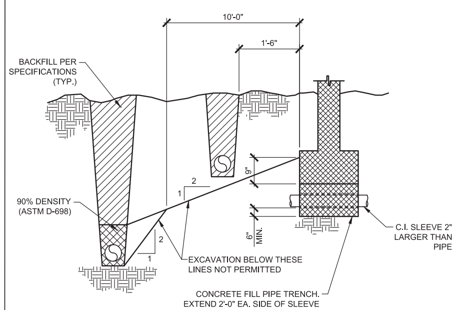
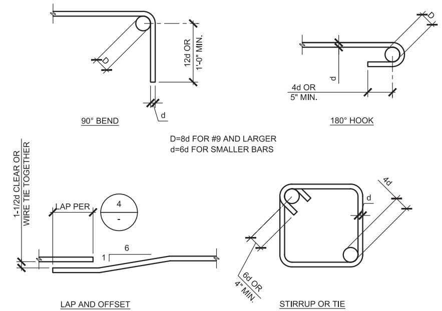


NOTES:
1. STAKES NOT PERMITTED WITHIN FOOTING SECTION
2. FOUNDATION CONCRETE MAY BE PLACED DIRECTLY INTO NEAT EXCAVATIONS PROVIDED TRENCH WALLS ARE STABLE. STABILITY SHALL BE DETERMINED BY THE ENGINEER.

1 TYPICAL FOOTING EXCAVATION
SCALE: NTS

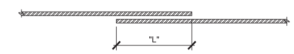


2 SLEEVE THRU FOOTING AND PIPE TRENCH LOCATION
SCALE: 1 1/2" = 1'-0"



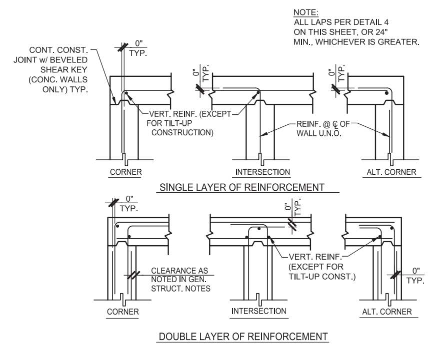
3 TYPICAL BAR BENDS
SCALE: NTS

REINFORCING LAP SPLICE SCHEDULE				
BAR	f'c=2500 L (inches)	f'c=3000 L (inches)	f'c=4000 L (inches)	f'c=5000 L (inches)
3	24	22	19	17
4	32	29	25	23
5	39	36	31	28
6	47	43	37	34
7	69	63	54	49
8	78	72	62	56
9	88	81	70	63

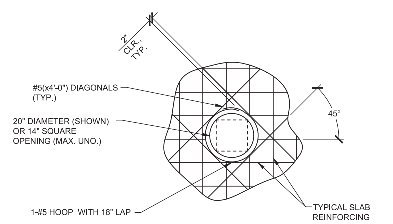


NOTES:
1. LAPS SHOWN IN THIS TABLE ARE CLASS B, CATEGORY 3 TYPE SPLICES. LAP LENGTH IS BASED UPON SMALLER OF TWO BARS BEING SPLICED WHEN NOT THE SAME SIZE.
2. INCREASE LAP LENGTHS BY A FACTOR OF 1.3 FOR HORIZONTAL REINFORCEMENT SO PLACED THAT MORE THAN 12 INCHES OF CONCRETE IS CAST IN THE MEMBER BELOW THIS REINFORCEMENT.

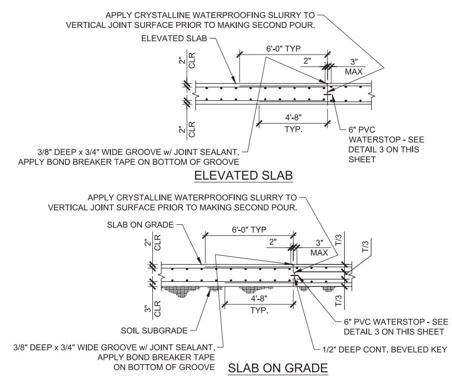
4 CONC. REINFORCING LAP SPLICE SCHEDULE
SCALE: NTS



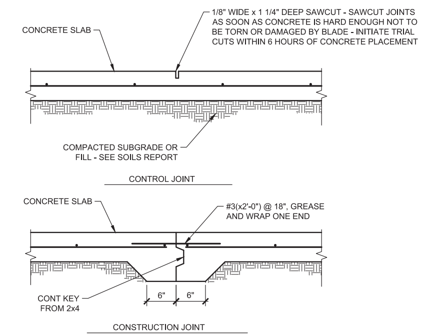
5 WALL & FOOTING REINF. AT CORNERS & INTERSECTIONS
SCALE: NTS



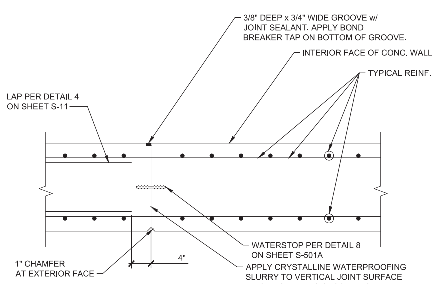
6 TYPICAL REINFORCING FOR OPENINGS THRU NON-STRUCTURAL SLABS SUPPORTED ON-GRADE
SCALE: NTS



7 TYPICAL HORIZ. SLAB CONSTRUCTION JOINT
SCALE: NTS

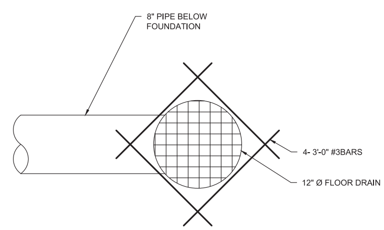


8 TYPICAL FLOOR SLAB JOINTS
SCALE: NTS

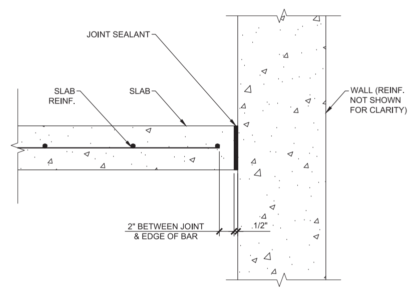


NOTE:
THIS CONSTRUCTION JOINT SHALL ONLY BE USED WHERE SHOWN ON THESE DRAWINGS AND WHERE APPROVED BY THE ENGINEER.

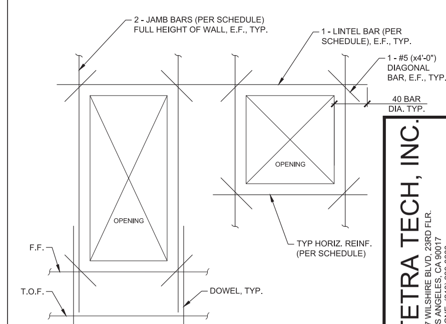
9 TYPICAL VERTICAL WALL JOINT
SCALE: NTS



10 FLOOR DRAIN DETAIL
SCALE: NTS



11 SLAB TO WALL ISOLATION JOINT
SCALE: NTS



12 TYPICAL REINFORCING AT WALL OPENINGS
SCALE: NTS

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LOS ANGELES, CA 90017
PHONE: (213) 239-8866

CITY OF LOS ANGELES
DEPARTMENT OF PUBLIC WORKS
BUREAU OF ENGINEERING

VERT. CONTROL: BM 12-04070, 1929 (NGVD29) - 1985 ADJUSTMENT
HORIZ. CONTROL: GPS; PID AE 1704, EPOCH 1991.35

SHEET TITLE: TYPICAL DETAILS

PROJECT: SIXTH STREET PARK, ARTS AND RIVER CONNECTIVITY IMPROVEMENTS (PARC)
ADDRESS: SIXTH STREET OVER THE LOS ANGELES RIVER

GARY LEE MOORE, P.E., ENV SP — CITY ENGINEER — DATE:
DESIGN GROUP
ENGINEER: MICHAEL OLSEN — LIC. NO.
DESIGNED BY: JUSTIN SMITH
DRAWN BY: BRETT BOEHMKE
CHECKED BY: NATE SCHREINER
APPROVED BY: JASON L. FUSSEL

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REGISTERED PROFESSIONAL ENGINEER — MICHAEL S. OLSEN — No. 81944 — CIVIL — STATE OF CALIFORNIA

NO. REVISIONS: DATE: BY:

INDEX NO.
BUILDING NO.

ENGINEERING — CITY OF LOS ANGELES

WORK ORDER NO. E700235D
FILE NO. --
DRAWING NO. S-501
SHEET 251 OF 295 SHEETS

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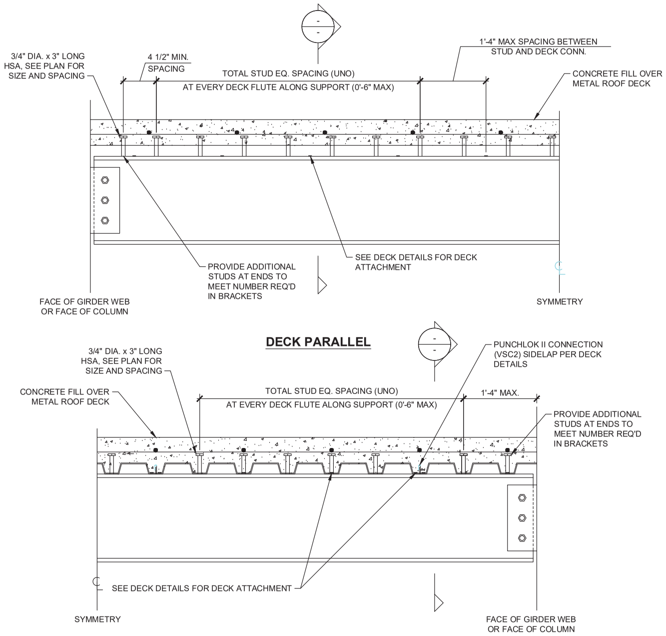
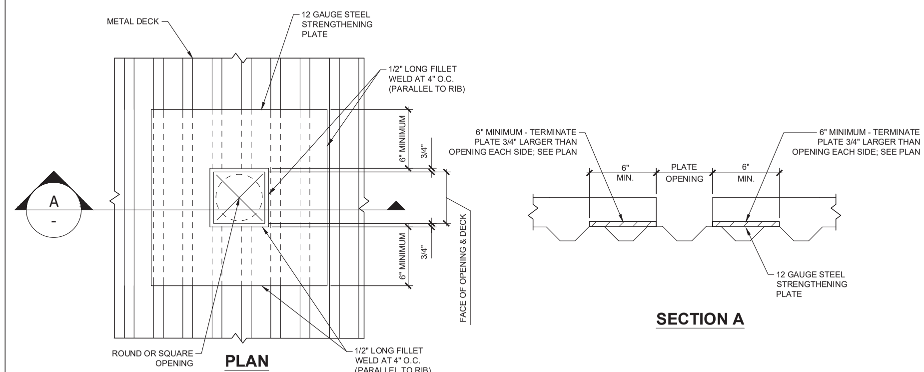
5 COMPOSITE BEAM DETAILS
SCALE: NTS



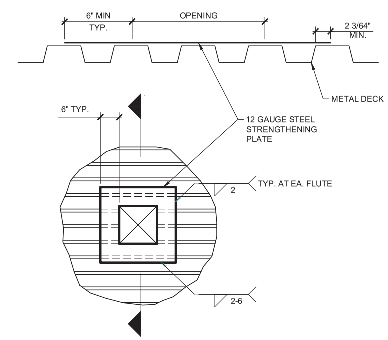
NOTES:

1. THE MIN. NUMBER OF STUDS REQUIRED IS SHOWN AS [X] ON THE FRAMING PLANS. [X-Y-Z] INDICATES NUMBER OF STUDS ON A GIRDER BETWEEN BEAM CONNECTION POINTS. NO STUDS ARE REQUIRED WHERE NO DESIGNATION IS GIVEN. ADDITIONAL STUDS MAY BE REQUIRED TO MEET THE ABOVE MAX SPACING REQUIREMENTS.
2. WHERE THE NUMBER OF STUDS EXCEED THE NUMBER OF FLUTES, PROVIDE TWO STUDS IN EVERY OTHER FLUTE, STARTING AT EACH END OF THE BEAM. THE TRANSVERSE SPACING BETWEEN STUDS IN A SINGLE FLUTE SHALL BE 4 x STUD DIAMETER (MIN).
3. NO HAND WELDING STUDS TO STEEL BEAMS SHALL BE PERMITTED. SEE GENERAL NOTES.
4. TURN NATURAL BEAM CAMBER UP.
5. SEE ARCHITECTURAL DRAWING FOR MORE INFORMATION.
6. GC SHOULD REFER TO ESR REPORT FOR SPACING BETWEEN DECK ATTACHMENT AND METAL SHEAR STUDS.

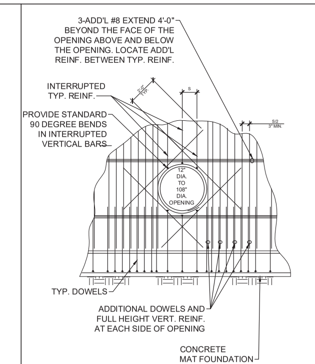
3 DECK OPENING (FOR OPENING GREATER THAN 4" AND UP TO 9" DIA OR SQUARE)
SCALE: NTS



6 TYP. DECK OPENINGS 6" AND LARGER BUT LESS THAN 12"
SCALE: NTS



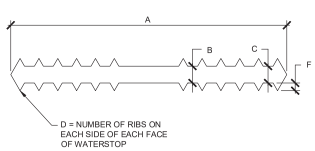
7 ADDITIONAL REINFORCEMENT AT PIPE PENETRATIONS AT CONCRETE WALLS
SCALE: NTS



NOTES:

1. NUMBER OF ADDITIONAL DOWELS AND FULL HEIGHT VERTICAL BARS ON EACH SIDE OF OPENING SHALL BE EQUAL TO HALF OF THE NUMBER OF INTERRUPTED BARS IN EACH LAYER OF REINFORCING.
2. SIZE OF ADDITIONAL BARS SHALL MATCH THE SIZE OF INTERRUPTED REINFORCING BARS.
3. PROVIDE STANDARD HOOKS ON BARS IF LAP LENGTH EXTENSION CANNOT BE OBTAINED.
4. PLACE ADDITIONAL BARS IN SAME PLANE AS INTERRUPTED REINFORCING. PLACE #5 & EACH FACE INSIDE OF PLANE OF INTERRUPTED AND ADDITIONAL REINFORCING.
5. ALL REINFORCING SHALL CLEAR EDGE OF OPENING, PIPE OR FLANGE COLLARS BY 2".
6. EXTEND ADDED BARS PAST EDGE OF OPENING A DISTANCE EQUAL TO THE OPENING DIAMETER OR 48 BAR DIAMETERS, WHICHEVER IS GREATER.
7. WHERE SPECIFIED LENGTHS CANNOT BE ACHIEVED, BEND REINFORCING AND PROVIDE A STANDARD 90° BEND OR 180° HOOK.

8 WATERSTOP SCHEDULE
SCALE: NTS



A	B	C	D	F	GREENSTREAK
6"	3/8"	1/4"	7	1/8"	783

NOTES:
SPLICES AT CORNERS AND INTERSECTIONS OF WATERSTOPS SHALL BE SHOP MITERED AND WELDED. ONLY BUTT SPLICES MAY BE DONE IN FIELD. ALL SPLICES SHALL BE MADE IN ACCORDANCE WITH MANUFACTURER'S RECOMMENDATIONS. SUBMIT SHOP DRAWINGS PRIOR TO INSTALLATION OR SPLICING WATERSTOPS.

9 NOT USED
SCALE: NTS

10 NOT USED
SCALE: NTS

11 NOT USED
SCALE: NTS

REVISION DATES (DESIGN STAGE ONLY)

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PHONE: (213) 239-8866

CITY OF LOS ANGELES — DEPARTMENT OF PUBLIC WORKS — BUREAU OF ENGINEERING

VERT. CONTROL: BM 12-04070, 1929 (NGVD29) - 1985 ADJUSTMENT
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SHEET TITLE: TYPICAL DETAILS

PROJECT: SIXTH STREET PARK, ARTS AND RIVER CONNECTIVITY IMPROVEMENTS (PARC)
ADDRESS: SIXTH STREET OVER THE LOS ANGELES RIVER

GARY LEE MOORE, P.E., ENV SP — CITY ENGINEER — DATE:
DESIGN GROUP
ENGINEER: MICHAEL OLSEN — LIC. NO.
DESIGNED BY: JUSTIN SMITH
DRAWN BY: MARK NAYRA
CHECKED BY: NATE SCHREINER
APPROVED BY: JASON L. FUSSEL

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REGISTERED PROFESSIONAL ENGINEER — MICHAEL S. O. OLSEN — No. 81944 — CIVIL — STATE OF CALIFORNIA

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BUILDING NO.

ENGINEERING — CITY OF LOS ANGELES

WORK ORDER NO. E700235D
FILE NO. --
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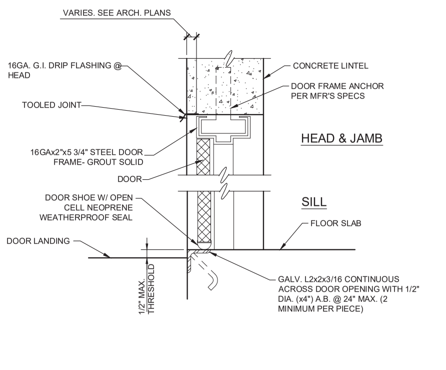
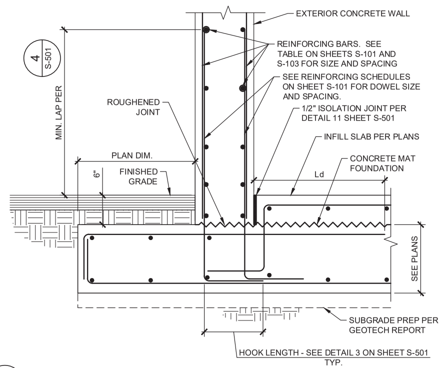


1 DOOR, SILL, HEAD & JAMB
SCALE: NTS



2 TYPICAL EXTERIOR WALL FOOTING
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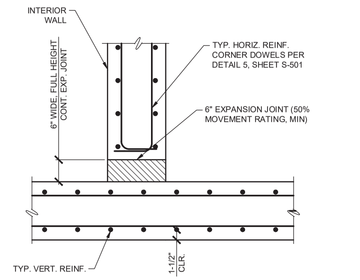
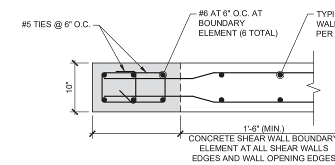
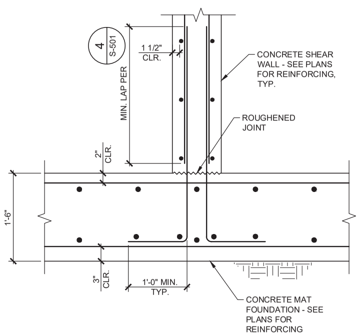


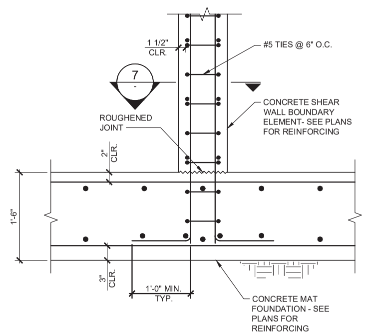
3 EXPANSION JOINT BETWEEN EXTERIOR WALLS AND INTERIOR WALLS
SCALE: NTS



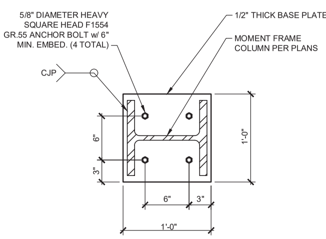
4 TYPICAL SHEAR WALL BOUNDARY ELEMENT REINFORCING
SCALE: NTS



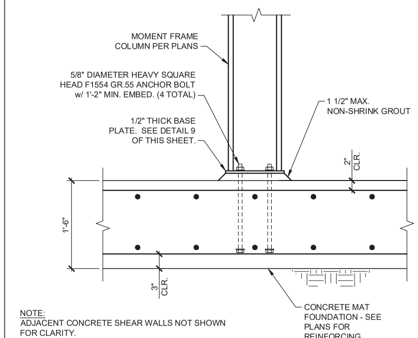
5 TYPICAL INTERIOR CONCRETE SHEAR WALL TO MAT FOUNDATION
SCALE: NTS



6 INTERIOR CONCRETE SHEAR WALL TO MAT FOUNDATION AT BOUNDARY ELEMENTS
SCALE: NTS

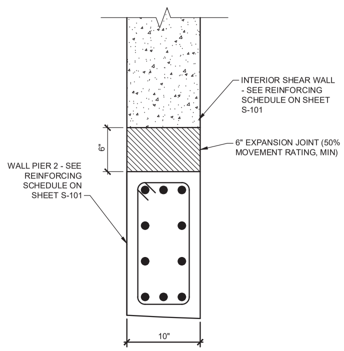


7 MOMENT FRAME COLUMN BASE PLATE
SCALE: NTS

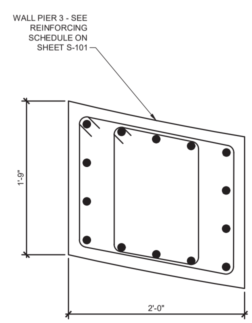


NOTE:
ADJACENT CONCRETE SHEAR WALLS NOT SHOWN FOR CLARITY.

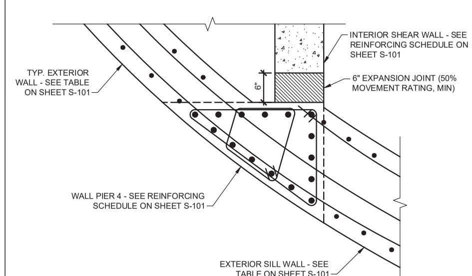
8 MOMENT FRAME COLUMN TO MAT FOUNDATION CONNECTION
SCALE: NTS



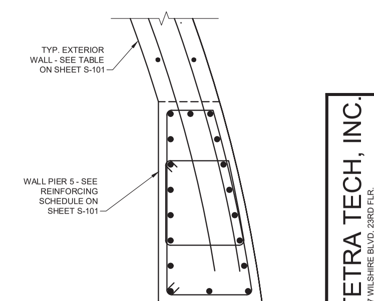
9 WALL PIER 2 (P2) REINFORCING DETAIL
SCALE: 1-1/2"=1'-0"



10 WALL PIER 3 (P3) REINFORCING DETAIL
SCALE: 1-1/2"=1'-0"



11 WALL PIER 4 (P4) REINFORCING DETAIL
SCALE: 1"=1'-0"



12 WALL PIER 5 (P5) REINFORCING DETAIL
SCALE: 1-1/2"=1'-0"

REVISION DATES (DESIGN STAGE ONLY)

Sheet Version 3.0

PLANS PREPARED BY:
TETRA TECH, INC.
707 WILSHIRE BLVD. 23RD FLR.
LOS ANGELES, CA 90017
PHONE: (213) 239-8866

CITY OF LOS ANGELES — DEPARTMENT OF PUBLIC WORKS — BUREAU OF ENGINEERING

VERT. CONTROL: BM 12-04070, 1929 (NGVD29) - 1985 ADJUSTMENT
HORIZ. CONTROL: GPS; PID AE 1704, EPOCH 1991.35

SHEET TITLE: FOUNDATION WALL DETAILS

PROJECT: SIXTH STREET PARK, ARTS AND RIVER CONNECTIVITY IMPROVEMENTS (PARC)

ADDRESS: SIXTH STREET OVER THE LOS ANGELES RIVER

GARY LEE MOORE, P.E., ENV SP — CITY ENGINEER — DATE:
DESIGN GROUP
ENGINEER: MICHAEL OLSEN — LIC. NO.
DESIGNED BY: JUSTIN SMITH
DRAWN BY: BRETT BOEHMKE
CHECKED BY: NATE SCHREINER
APPROVED BY: JASON L. FUSSEL

THIS PLAN WAS ELECTRONICALLY SIGNED AND STAMPED.
REGISTERED PROFESSIONAL ENGINEER — MICHAEL S. O. OLSEN — No. 81944 — CIVIL — STATE OF CALIFORNIA

NO. | REVISIONS | DATE | BY
INDEX NO.
BUILDING NO.

ENGINEERING — CITY OF LOS ANGELES

WORK ORDER NO. E700235D
FILE NO. –
DRAWING NO. S-502
SHEET 253 OF 295 SHEETS

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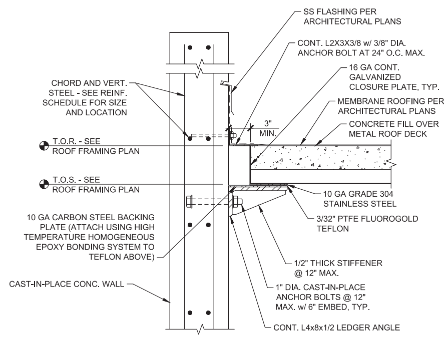
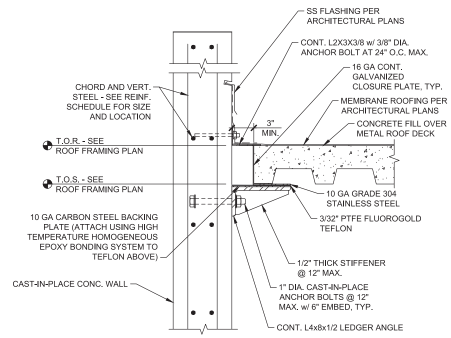
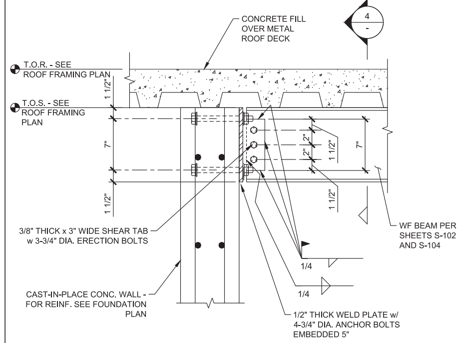


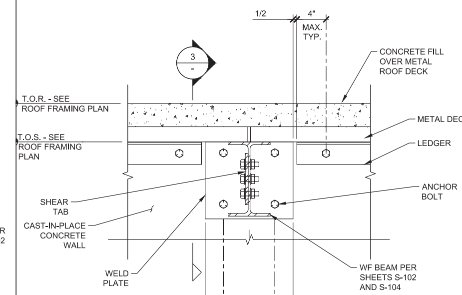
1 TYPICAL LEDGER (METAL DECK FLUTE PERPENDICULAR TO LEDGER)
SCALE: 1 1/2" = 1'-0"



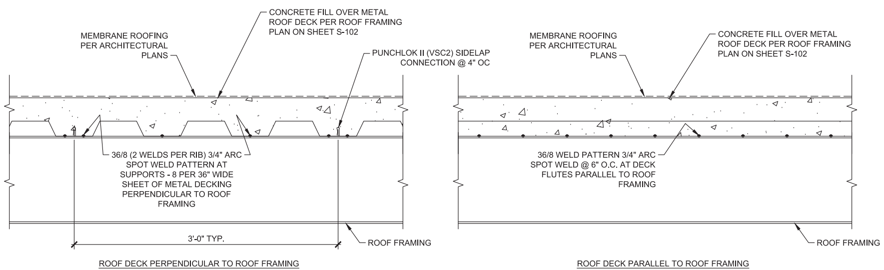
2 TYPICAL LEDGER (METAL DECK FLUTE PARALLEL TO LEDGER)
SCALE: 1 1/2" = 1'-0"



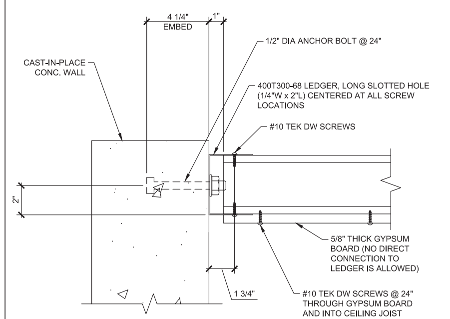
3 BEAM TO INTERIOR WALL CONNECTION
SCALE: 1 1/2" = 1'-0"



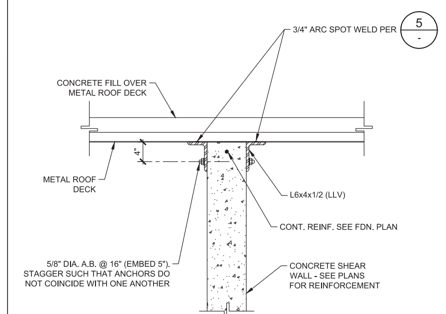
4 BEAM TO INTERIOR WALL CONNECTION
SCALE: 1 1/2" = 1'-0"



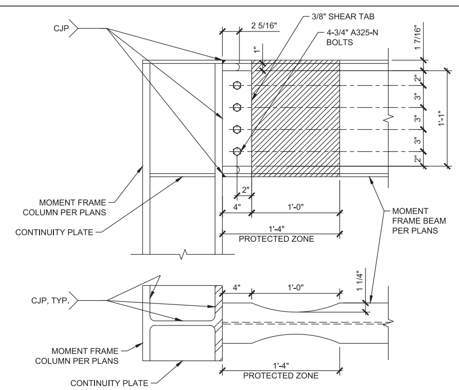
5 CONCRETE FILLED METAL ROOF DECK FOR EAST BUILDINGS
SCALE: 1 1/2" = 1'-0"



6 CEILING JOIST TO WALL CONNECTION
SCALE: 3" = 1'-0"

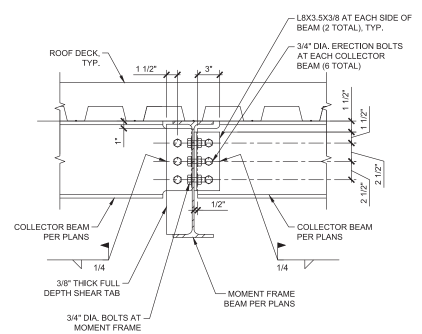


7 ROOF DECK TO INTERIOR CONCRETE WALL CONNECTION
SCALE: 1" = 1'-0"

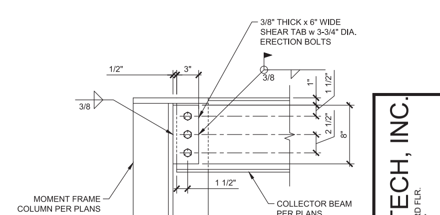


8 RBS MOMENT FRAME
SCALE: 1 1/2" = 1'-0"

NOTES:
1. ROOF DECK NOT SHOWN FOR CLARITY.
2. NO ATTACHMENT OF LATERAL BRACING SHALL BE MADE TO THE BEAM IN THE PROTECTED ZONE.
3. SHEAR STUDS SHALL NOT BE WELDED WITHIN PROTECTED ZONES AS SPECIFIED ON SPECIAL MOMENT FRAME BEAMS PART OF THE SEISMIC FORCE RESISTING SYSTEM (SFRS).
4. ANY DISCONTINUITIES CREATED DURING ERECTION OR FABRICATION MUST BE IMMEDIATELY REPAIRED AND REPORTED TO THE ENGINEER OF RECORD.
5. ANY ATTACHMENTS OR SUPPORT FOR FACADES, PIPING, DUCTING OR OTHER CONSTRUCTION SHALL BE POSITIONED AND LOCATED OUTSIDE THE PROTECTED ZONE.
6. BEAM FLANGE CJP WELDS SHALL CONFORM TO THE REQUIREMENTS FOR DEMAND CRITICAL (DC) WELDS.
7. FIRST LATERAL STABILITY BRACING TO BE LOCATED WITHIN D/2 MAX. OUTSIDE OF THE PROTECTED ZONE AT EACH END OF THE MOMENT FRAME BEAM.



9 BEAM TO GIRDER CONNECTION
SCALE: 1 1/2" = 1'-0"



NOTE:
ROOF DECK NOT SHOWN FOR CLARITY.

10 BEAM TO COLUMN WEB CONNECTION
SCALE: 1 1/2" = 1'-0"

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REVISION DATES (DESIGN STAGE ONLY)

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PLANS PREPARED BY:
TETRA TECH, INC.
707 WILSHIRE BLVD. 23RD FLR.
LOS ANGELES, CA 90017
PHONE: (213) 239-8866

CITY OF LOS ANGELES · DEPARTMENT OF PUBLIC WORKS · BUREAU OF ENGINEERING

VERT. CONTROL: BM 12-04070, 1929 (NGVD29) - 1985 ADJUSTMENT
HORIZ. CONTROL: GPS: PID AE 1704, EPOCH 1991.35

SHEET TITLE: EAST BUILDINGS ROOF FRAMING DETAILS
PROJECT: SIXTH STREET PARK, ARTS AND RIVER CONNECTIVITY IMPROVEMENTS (PARC)
ADDRESS: SIXTH STREET OVER THE LOS ANGELES RIVER

GARY LEE MOORE, P.E., ENV SP — CITY ENGINEER — DATE:
DESIGN GROUP
ENGINEER: MICHAEL OLSEN — LIC. NO.
DESIGNED BY: JUSTIN SMITH
DRAWN BY: BRETT BOEHMKE
CHECKED BY: NATE SCHREINER
APPROVED BY: JASON L. FUSSEL

• THIS PLAN WAS ELECTRONICALLY SIGNED AND STAMPED •
REGISTERED PROFESSIONAL ENGINEER MICHAEL S. OLSEN No. 81944 CIVIL STATE OF CALIFORNIA

NO. | REVISIONS | DATE | BY
INDEX NO.
BUILDING NO.

ENGINEERING CITY OF LOS ANGELES

WORK ORDER NO. E700235D
FILE NO. –
DRAWING NO. S-503
SHEET 254 OF 295 SHEETS

7/11/2022 3:34:13 PM - O:\PROJECTS\IRVINE\20043\200-20043-17001\CAD\SHEETFILES\S-503_ROOF FRAMING.DWG - BOEHMKE, BRETT

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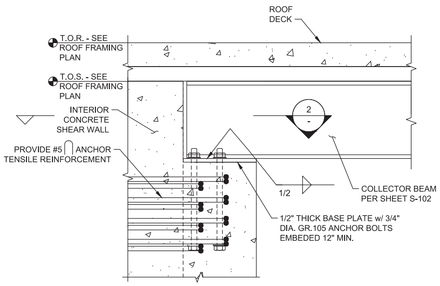
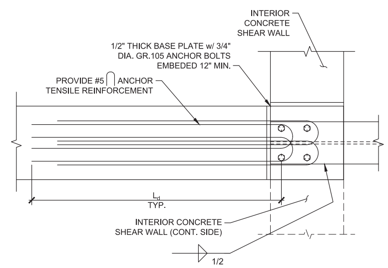


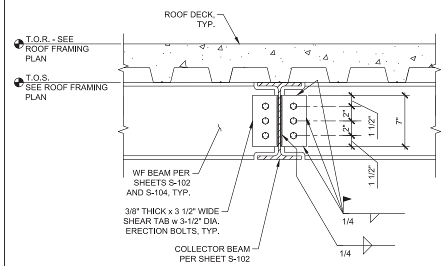
1 COLLECTOR BEAM TO WALL CONNECTION

SCALE: 1 1/2" = 1'-0"



2 COLLECTOR BEAM TO WALL CONNECTION

SCALE: 1 1/2" = 1'-0"

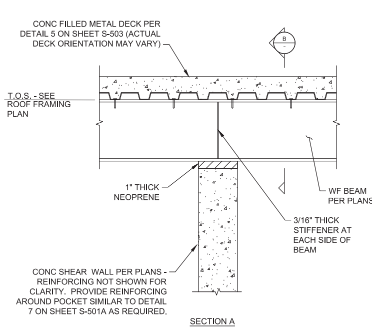


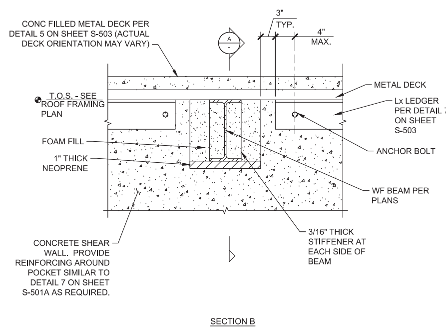
3 COLLECTOR BEAM TO ROOF FRAMING CONNECTION

SCALE: 1 1/2" = 1'-0"

4 NOT USED

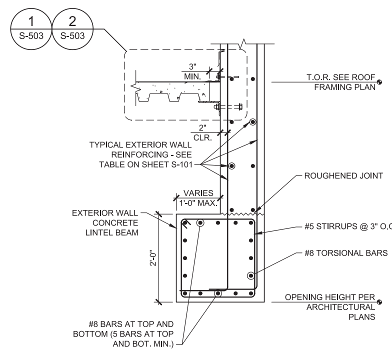
SCALE: 1 1/2" = 1'-0"





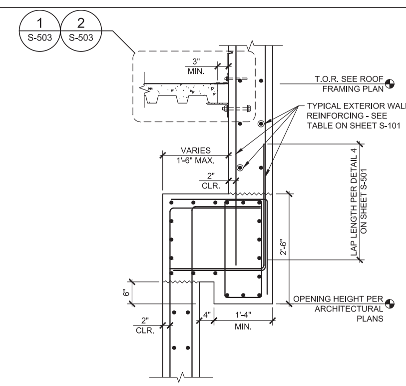
5 BEAM POCKET

SCALE: 1" = 1'-0"



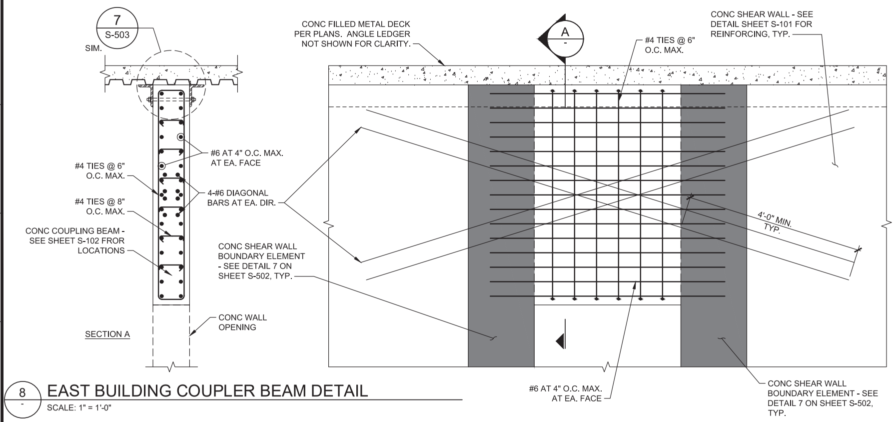
6 EAST BUILDING CONCRETE LINTEL

SCALE: 1" = 1'-0"



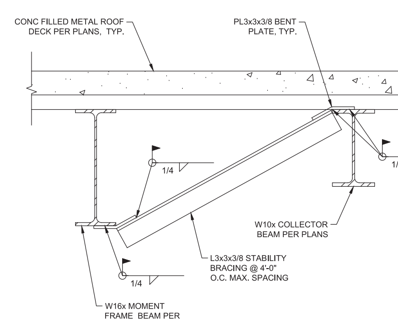
7 EAST BUILDING WALL RECESS

SCALE: 1" = 1'-0"



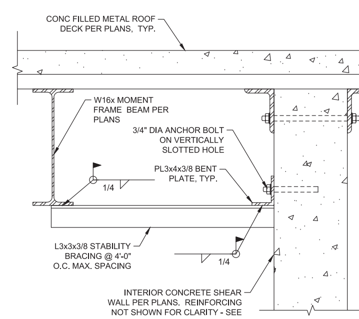
8 EAST BUILDING COUPLER BEAM DETAIL

SCALE: 1" = 1'-0"



9 EAST BUILDING SMF STABILITY BRACING

SCALE: 1 1/2" = 1'-0"



10 EAST BUILDING SMF STABILITY BRACING

SCALE: 1 1/2" = 1'-0"

PLANS PREPARED BY:

TETRA TECH, INC.

707 WILSHIRE BLVD. 23RD FLR.
LOS ANGELES, CA 90017
PHONE: (213) 239-8866

CITY OF LOS ANGELES — DEPARTMENT OF PUBLIC WORKS — BUREAU OF ENGINEERING

VERT. CONTROL: BM 12-04070, 1929 (NGVD29) - 1985 ADJUSTMENT
HORIZ. CONTROL: GPS; PID AE 1704, EPOCH 1991.35

SHEET TITLE: EAST BUILDINGS ROOF FRAMING DETAILS

PROJECT: SIXTH STREET PARK, ARTS AND RIVER CONNECTIVITY IMPROVEMENTS (PARC)

ADDRESS: SIXTH STREET OVER THE LOS ANGELES RIVER

GARY LEE MOORE, P.E., ENV SP — CITY ENGINEER — DATE:

DESIGN GROUP — LIC. NO.

ENGINEER:	MICHAEL OLSEN
DESIGNED BY:	JUSTIN SMITH
DRAWN BY:	MEGAN HANRAHAN
CHECKED BY:	NATE SCHREINER
APPROVED BY:	JASON L. FUSSEL

• THIS PLAN WAS ELECTRONICALLY SIGNED AND STAMPED

REGISTERED PROFESSIONAL ENGINEER — MICHAEL S. OLSEN — No. 81944 — CIVIL — STATE OF CALIFORNIA

NO. | REVISIONS | DATE | BY

INDEX NO.

BUILDING NO.

ENGINEERING — CITY OF LOS ANGELES

WORK ORDER NO. E700235D

FILE NO. --

DRAWING NO. S-504

SHEET 255 OF 295 SHEETS

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REVISION DATES (DESIGN STAGE ONLY)

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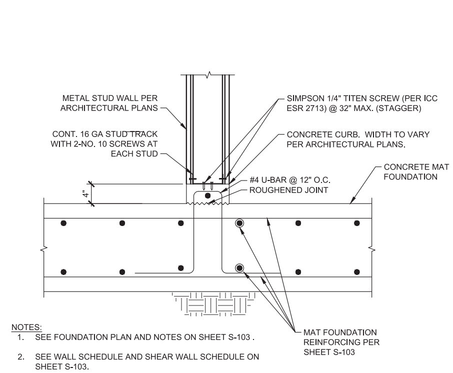
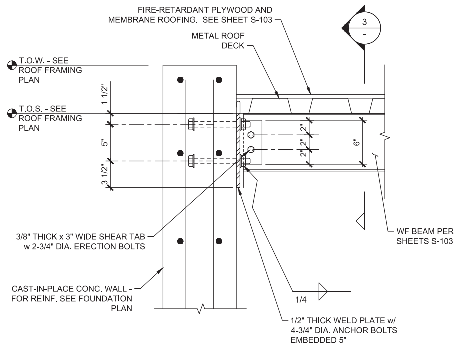
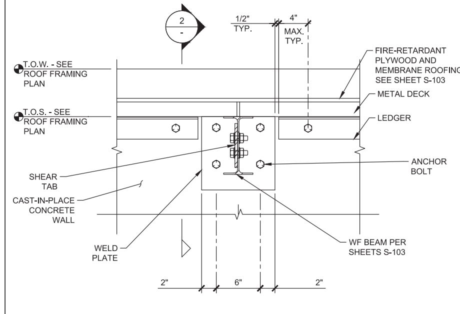


NOTES:
1. SEE FOUNDATION PLAN AND NOTES ON SHEET S-103 .
2. SEE WALL SCHEDULE AND SHEAR WALL SCHEDULE ON SHEET S-103.

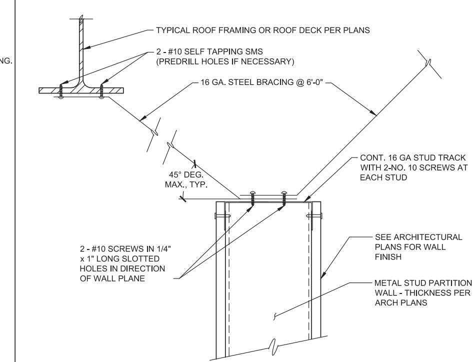
1 MAT FOUNDATION DETAIL AT INTERIOR WALLS
SCALE: 1" = 1'-0"



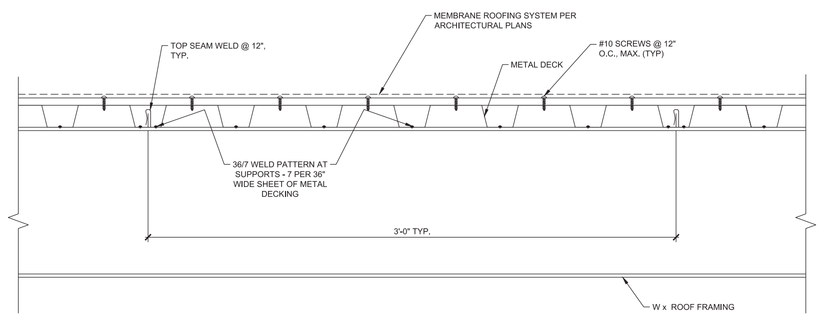
2 BEAM TO EXTERIOR WALL CONNECTION
SCALE: 1 1/2" = 1'-0"



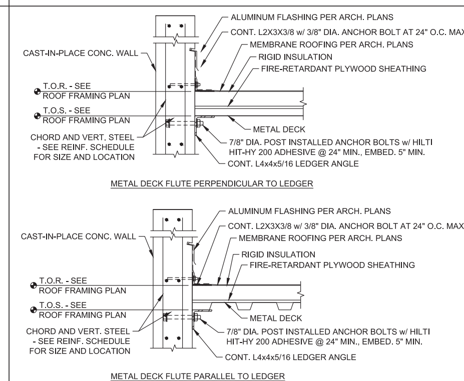
3 BEAM TO EXTERIOR WALL CONNECTION
SCALE: 1 1/2" = 1'-0"



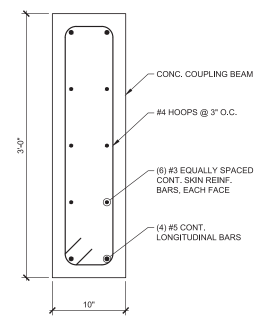
4 PARTITION WALL BRACING
SCALE: 1 1/2" = 1'-0"



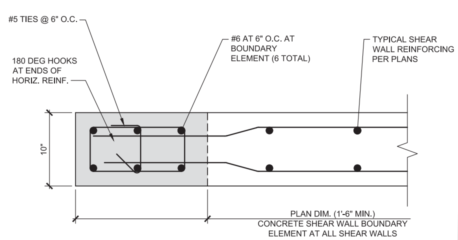
5 METAL ROOF DECK FOR WEST BUILDINGS
SCALE: 3" = 1'-0"



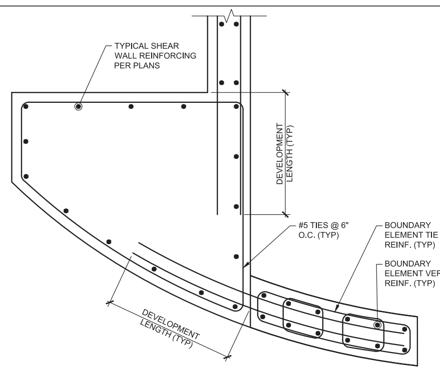
6 LEDGER CONNECTION DETAIL
SCALE: 1 1/2" = 1'-0"



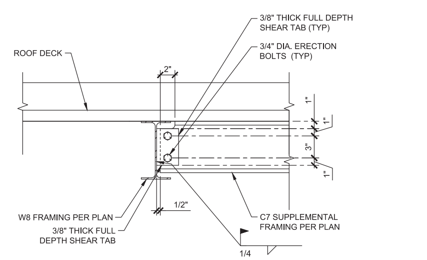
7 SHEAR WALL COUPLING BEAM DETAIL
SCALE: 1 1/2" = 1'-0"



8 SHEAR WALL BOUNDARY ELEMENT REINFORCING
SCALE: 1 1/2" = 1'-0"



9 WALL PIER DETAIL
SCALE: 1" = 1'-0"



10 SUPPLEMENTAL FRAMING CONNECTION DETAIL
SCALE: 1 1/2" = 1'-0"

PLANS PREPARED BY:
TETRA TECH, INC.
707 WILSHIRE BLVD. 23RD FLR.
LOS ANGELES, CA 90017
PHONE: (213) 239-8866

CITY OF LOS ANGELES
DEPARTMENT OF PUBLIC WORKS
BUREAU OF ENGINEERING

ENGINEERING
CITY OF LOS ANGELES

VERT. CONTROL: BM 12-04070, 1929 (NGVD29) - 1985 ADJUSTMENT
HORIZ. CONTROL: GPS; PID AE 1704, EPOCH 1991.35

SHEET TITLE: WEST RESTROOM BUILDING DETAILS 1
PROJECT: SIXTH STREET PARK, ARTS AND RIVER CONNECTIVITY IMPROVEMENTS (PARC)
ADDRESS: SIXTH STREET OVER THE LOS ANGELES RIVER

GARY LEE MOORE, P.E., ENV SP — CITY ENGINEER — DATE:
DESIGN GROUP
ENGINEER: MICHAEL OLSEN — LIC. NO.
DESIGNED BY: JUSTIN SMITH
DRAWN BY: BRETT BOEHMKE
CHECKED BY: NATE SCHREINER
APPROVED BY: JASON L. FUSSEL

THIS PLAN WAS ELECTRONICALLY SIGNED AND STAMPED

REGISTERED PROFESSIONAL ENGINEER
MICHAEL S. OLSEN
No. 81944
CIVIL
STATE OF CALIFORNIA

NO. | REVISIONS: | DATE: | BY:

BUILDING NO.
INDEX NO.

WORK ORDER NO. E700235D
FILE NO. --
DRAWING NO. S-505
SHEET 256 OF 295 SHEETS

7/11/2022 3:49:42 PM - O:\PROJECTS\IRVINE\20043\200-20043-17001\CAD\SHEETFILES\S-505_WEST RESTROOM BUILDING DETAILS 1.DWG - BOEHMKE, BRETT

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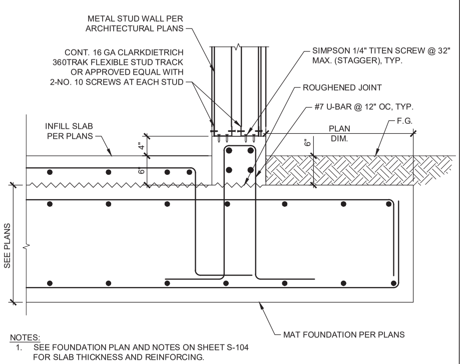
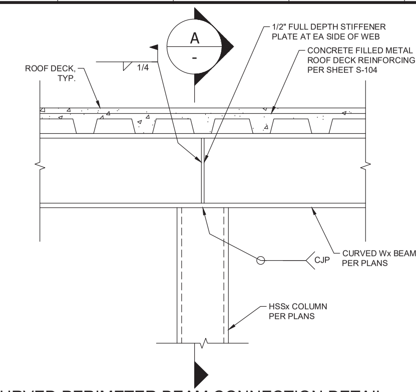
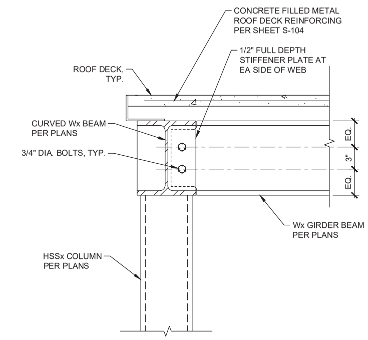


NOTES:
1. SEE FOUNDATION PLAN AND NOTES ON SHEET S-104 FOR SLAB THICKNESS AND REINFORCING.

1 SLAB-ON-GRADE DETAIL
SCALE: 1" = 1'-0"

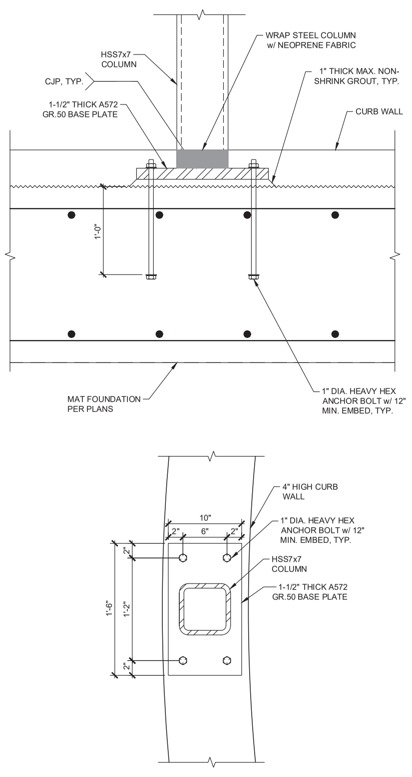
2 NOT USED
SCALE: 1-1/2" = 1'-0"

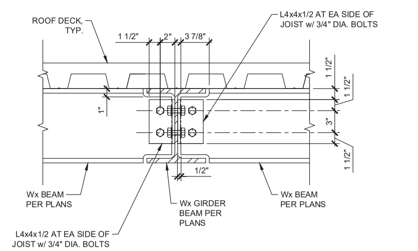




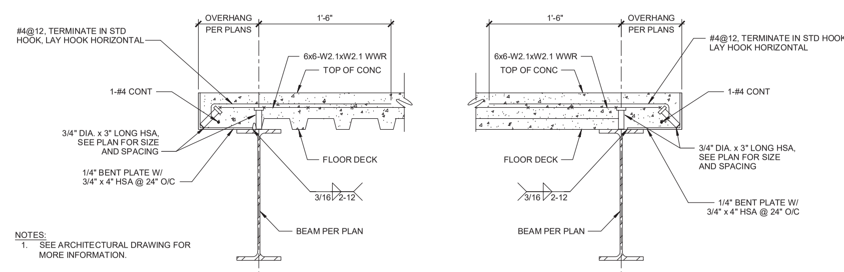
SECTION A

3 CURVED PERIMETER BEAM CONNECTION DETAIL
SCALE: 1-1/2" = 1'-0"





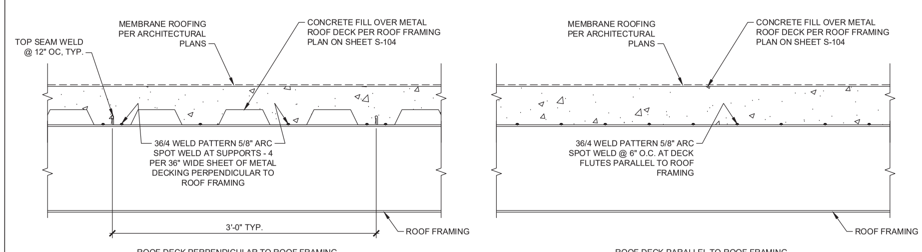
6 BEAM TO GIRDER CONNECTION DETAIL
SCALE: 1-1/2" = 1'-0"



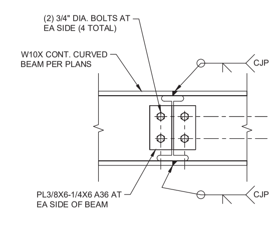
NOTES:
1. SEE ARCHITECTURAL DRAWING FOR MORE INFORMATION.

7 DECK EDGE DETAIL
SCALE: 1-1/2" = 1'-0"

9 COLUMN BASE PLATE DETAIL
SCALE: 1-1/2" = 1'-0"



10 CONCRETE FILLED METAL ROOF DECK FOR WEST CAFE BUILDING
SCALE: 1-1/2" = 1'-0"



12 CONT. CURVED BEAM SPLICE
SCALE: 1-1/2"=1'-0"

PLANS PREPARED BY:
TETRA TECH, INC.
707 WILSHIRE BLVD. 23RD FLR.
LOS ANGELES, CA 90017
PHONE: (213) 239-8866

CITY OF LOS ANGELES — DEPARTMENT OF PUBLIC WORKS — BUREAU OF ENGINEERING

VERT. CONTROL: BM 12-04070, 1929 (NGVD29) - 1985 ADJUSTMENT
HORIZ. CONTROL: GPS; PID AE 1704, EPOCH 1991.35

SHEET TITLE: WEST CAFE BUILDING DETAILS
PROJECT: SIXTH STREET PARK, ARTS AND RIVER CONNECTIVITY IMPROVEMENTS (PARC)
ADDRESS: SIXTH STREET OVER THE LOS ANGELES RIVER

GARY LEE MOORE, P.E., ENV SP — CITY ENGINEER — DATE:
DESIGN GROUP
ENGINEER: MICHAEL OLSEN — LIC. NO.
DESIGNED BY: JUSTIN SMITH
DRAWN BY: SPENCER GOSPE
CHECKED BY: NATE SCHREINER
APPROVED BY: JASON L. FUSSEL

THIS PLAN WAS ELECTRONICALLY SIGNED AND STAMPED.
REGISTERED PROFESSIONAL ENGINEER MICHAEL S. OLSEN No. 81944 CIVIL STATE OF CALIFORNIA

NO. | REVISIONS | DATE | BY
INDEX NO.
BUILDING NO.

ENGINEERING CITY OF LOS ANGELES

WORK ORDER NO. E700235D
FILE NO. -
DRAWING NO. S-506
SHEET 257 OF 295 SHEETS

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REVISION DATES (DESIGN STAGE ONLY)

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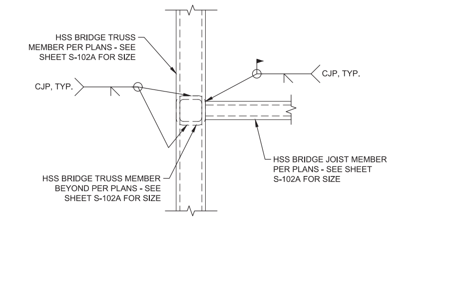
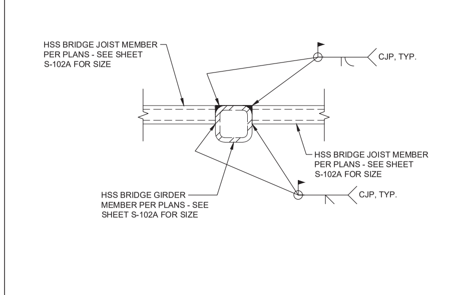


1 BRIDGE ELEMENT CONNECTION DETAIL
SCALE: 1 1/2" = 1'-0"



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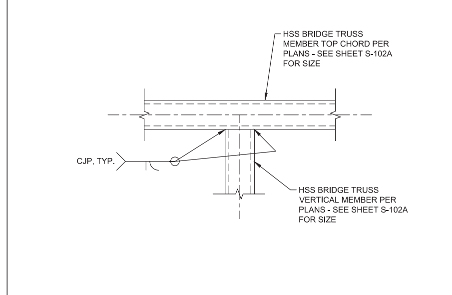

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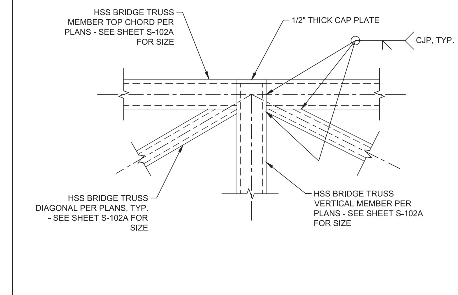

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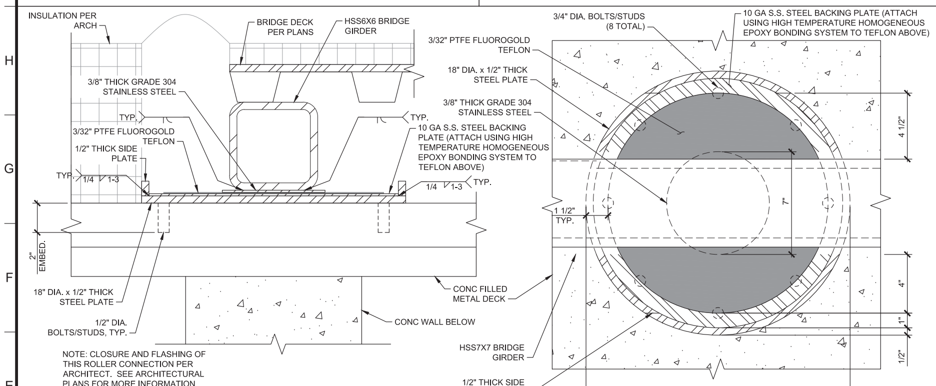

5 BRIDGE ELEMENT ROLLER CONNECTION DETAIL
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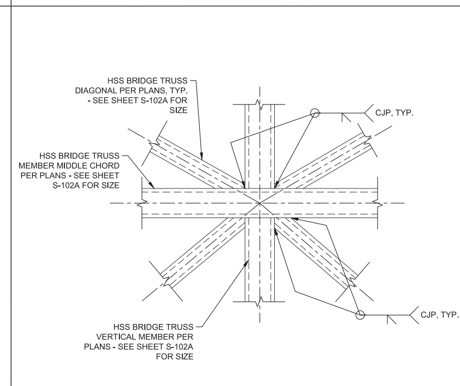

6 BRIDGE ELEMENT CONNECTION DETAIL
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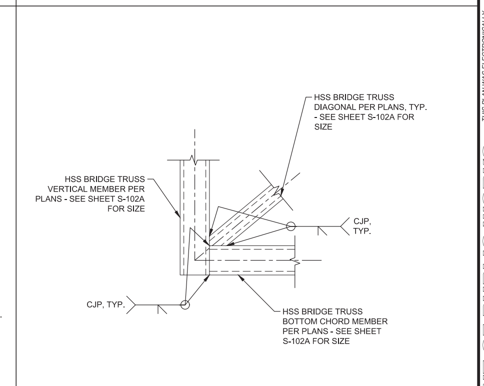

7 BRIDGE ELEMENT CONNECTION DETAIL
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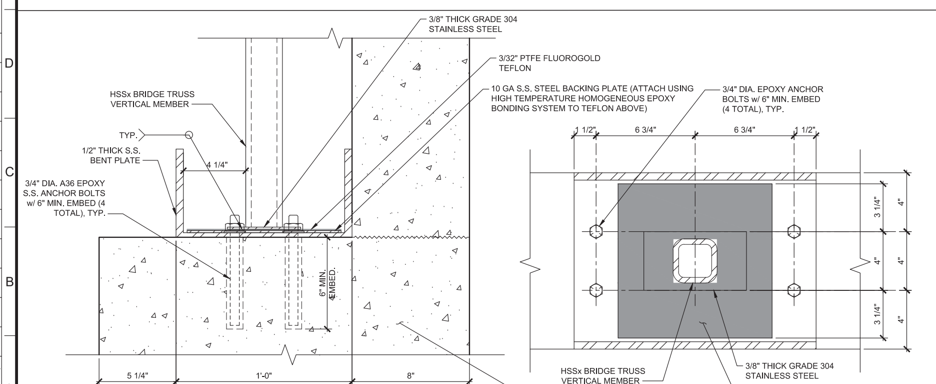
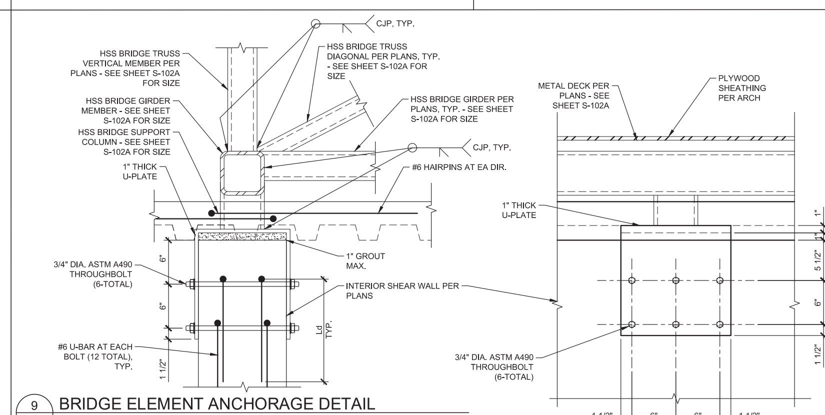


8 ROLLER CONNECTION AT WALL DETAIL
SCALE: 3" = 1'-0"



9 BRIDGE ELEMENT ANCHORAGE DETAIL
SCALE: 2" = 1'-0"

PLANS PREPARED BY:
TETRA TECH, INC.
707 WILSHIRE BLVD. 23RD FLR.
LOS ANGELES, CA 90017
PHONE: (213) 239-8866

CITY OF LOS ANGELES
DEPARTMENT OF PUBLIC WORKS
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CITY OF LOS ANGELES

NO.	REVISIONS:	DATE:	BY:

BUILDING NO.
INDEX NO.

THIS PLAN WAS ELECTRONICALLY SIGNED AND STAMPED.
REGISTERED PROFESSIONAL ENGINEER
MICHAEL S. OLSEN
No. 81944
CIVIL
STATE OF CALIFORNIA

GARY LEE MOORE, P.E., ENV SP — CITY ENGINEER — DATE:
DESIGN GROUP
ENGINEER: MICHAEL OLSEN — LIC. NO.
DESIGNED BY: JUSTIN SMITH
DRAWN BY: XXXX
CHECKED BY: NATE SCHREINER
APPROVED BY: JASON L. FUSSEL

VERT. CONTROL: BM 12-04070, 1929 (NGVD29) - 1985 ADJUSTMENT
HORIZ. CONTROL: GPS; PID AE 1704, EPOCH 1991.35
SHEET TITLE: EAST BUILDINGS ROOF FRAMING DETAILS
PROJECT: SIXTH STREET PARK, ARTS AND RIVER CONNECTIVITY IMPROVEMENTS (PARC)
ADDRESS: SIXTH STREET OVER THE LOS ANGELES RIVER

WORK ORDER NO. E700235D
FILE NO. -
DRAWING NO.
S-507
SHEET 258 OF 295 SHEETS

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REVISION DATES (DESIGN STAGE ONLY)

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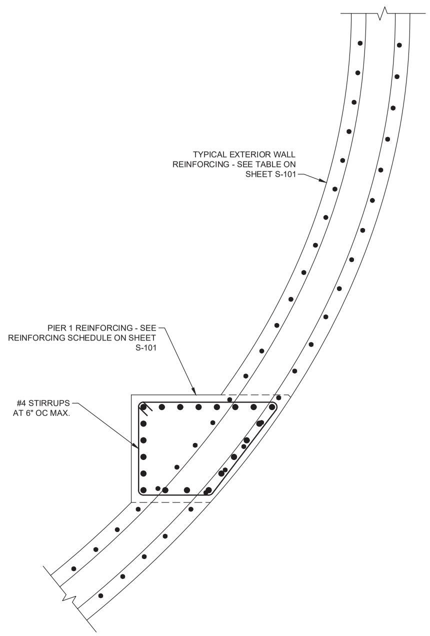

1 EAST OFFICE BLDG WALL SECTION AT CONCESSIONS
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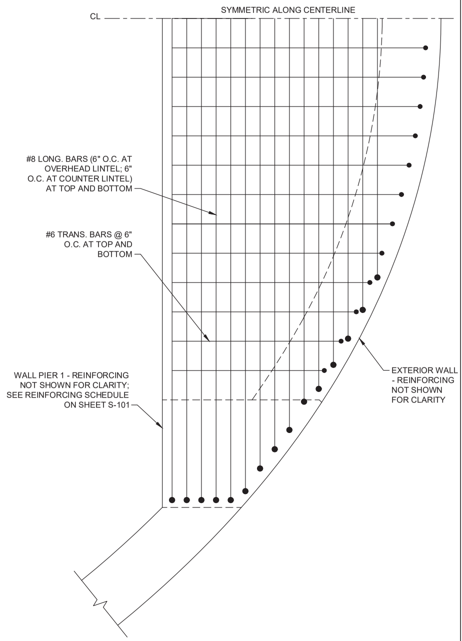

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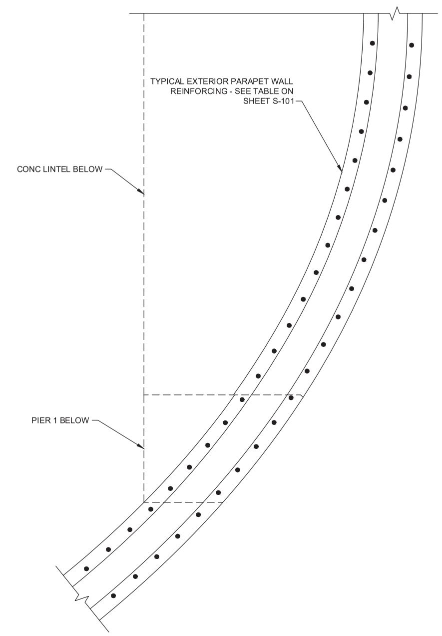
SCALE: 1"=1'-0"



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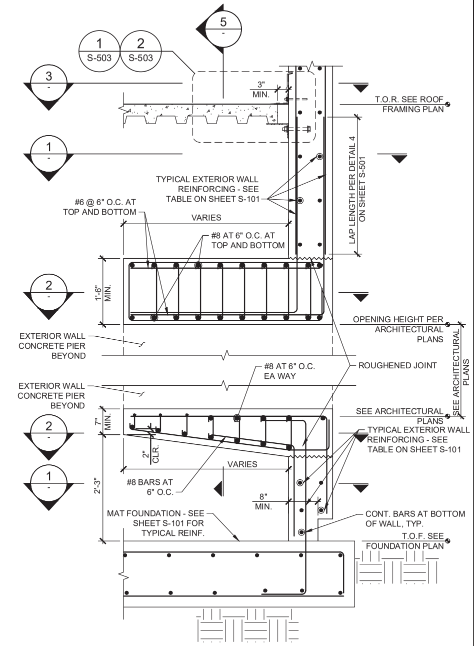
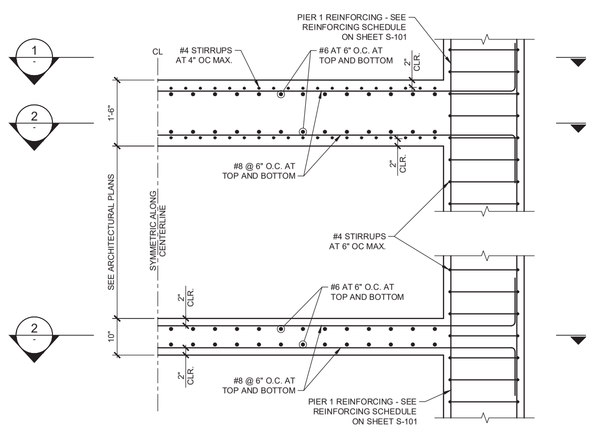
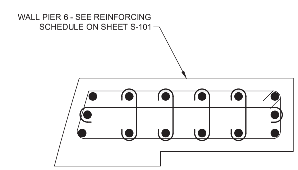


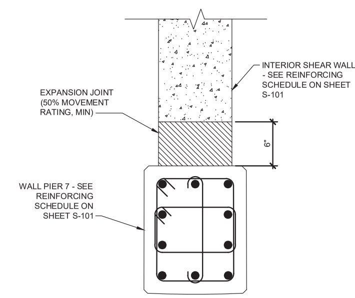
4 EAST OFFICE BLDG WALL SECTION AT CONCESSIONS
SCALE: 3/4"=1'-0"



5 EAST OFFICE BUILDING LINTEL AND PIER SECTION
SCALE: 3/4"=1'-0"



6 WALL PIER 6 (P6) REINFORCING DETAIL
SCALE: 1-1/2"=1'-0"



7 WALL PIER 7 (P7) REINFORCING DETAIL
SCALE: 1-1/2"=1'-0"

PLANS PREPARED BY:
TETRA TECH, INC.
707 WILSHIRE BLVD, 23RD FLR.
LOS ANGELES, CA 90017
PHONE: (213) 239-8866

CITY OF LOS ANGELES · DEPARTMENT OF PUBLIC WORKS · BUREAU OF ENGINEERING

VERT. CONTROL: BM 12-04070, 1929 (NGVD29) - 1985 ADJUSTMENT
HORIZ. CONTROL: GPS; PID AE 1704, EPOCH 1991.35

SHEET TITLE: FOUNDATION WALL DETAILS XXXXXXXXXX
PROJECT: SIXTH STREET PARK, ARTS AND RIVER CONNECTIVITY IMPROVEMENTS (PARC)
ADDRESS: SIXTH STREET OVER THE LOS ANGELES RIVER

GARY LEE MOORE, P.E., ENV SP — CITY ENGINEER — DATE:
DESIGN GROUP
ENGINEER: MICHAEL OLSEN — LIC. NO.
DESIGNED BY: JUSTIN SMITH
DRAWN BY: XXXX
CHECKED BY: NATE SCHREINER
APPROVED BY: JASON L FUSSEL

THIS PLAN WAS ELECTRONICALLY SIGNED AND STAMPED.
REGISTERED PROFESSIONAL ENGINEER MICHAEL S. OLSEN No. 81944 CIVIL STATE OF CALIFORNIA

NO.	REVISIONS:	DATE:	BY:

INDEX NO.
BUILDING NO.

ENGINEERING CITY OF LOS ANGELES

WORK ORDER NO. E700235D
FILE NO. -
DRAWING NO. S-508
SHEET 259 OF 295 SHEETS

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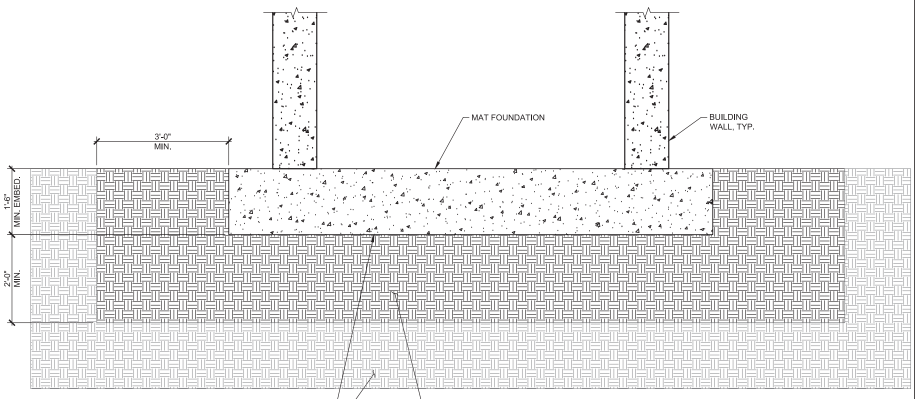
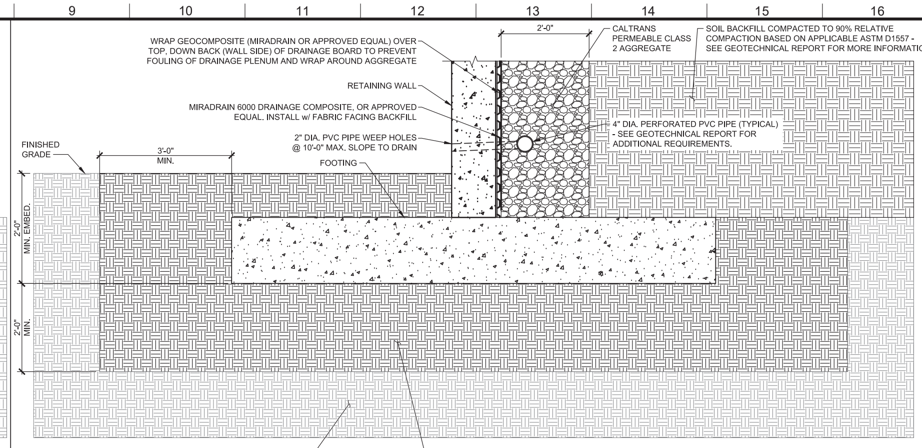


NOTE: REFER TO GEOTECHNICAL REPORT FOR ADDITIONAL INFORMATION AND REQUIREMENTS.

1 SUBGRADE PREPARATION FOR WEST PARK CAFE BLDG, WEST RESTROOM BLDG, AND EAST PARK BLDGS

SCALE: 3/4"=1'-0"



NOTE: REFER TO GEOTECHNICAL REPORT FOR ADDITIONAL INFORMATION AND REQUIREMENTS.

2 SUBGRADE PREPARATION AND WALL DRAINAGE FOR RETAINING WALL STRUCTURES

SCALE: 3/4"=1'-0"

REVISION DATES (DESIGN STAGE ONLY)

PLANS PREPARED BY:
TETRA TECH, INC.
707 WILSHIRE BLVD. 23RD FLR.
LOS ANGELES, CA 90017
PHONE: (213) 239-8866

CITY OF LOS ANGELES DEPARTMENT OF PUBLIC WORKS BUREAU OF ENGINEERING

VERT. CONTROL: BM 12-04070, 1929 (NGVD29) - 1985 ADJUSTMENT
HORIZ. CONTROL: GPS; PID AE 1704, EPOCH 1991.35

SHEET TITLE: SUBGRADE PREP DETAILS XXXXXXXXXX
PROJECT: SIXTH STREET PARK, ARTS AND RIVER CONNECTIVITY IMPROVEMENTS (PARC)
ADDRESS: SIXTH STREET OVER THE LOS ANGELES RIVER

GARY LEE MOORE, P.E., ENV SP — CITY ENGINEER — DATE:
DESIGN GROUP
ENGINEER: MICHAEL OLSEN — LIC. NO.
DESIGNED BY: JUSTIN SMITH
DRAWN BY: BRETT BOEHMKE
CHECKED BY: NATE SCHREINER
APPROVED BY: JASON L. FUSSEL

THIS PLAN WAS ELECTRONICALLY SIGNED AND STAMPED
REGISTERED PROFESSIONAL ENGINEER MICHAEL S. OLSEN No. 81944 CIVIL STATE OF CALIFORNIA

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INDEX NO.
BUILDING NO.
ENGINEERING CITY OF LOS ANGELES

WORK ORDER NO. E700235D
FILE NO. –
DRAWING NO. S-509
SHEET 260 OF 295 SHEETS

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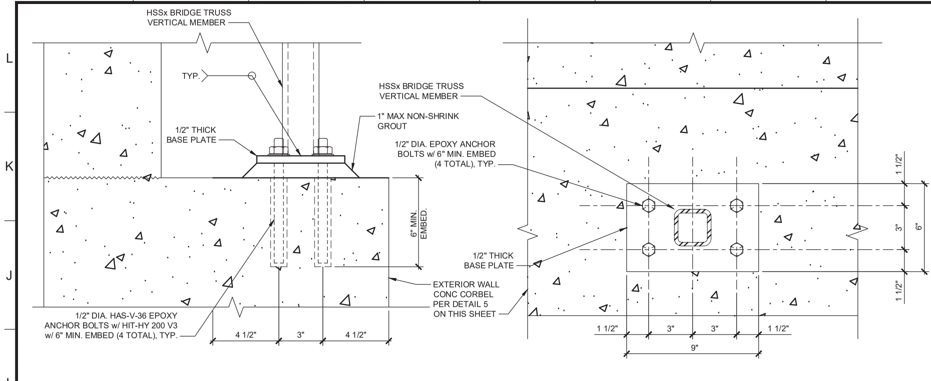
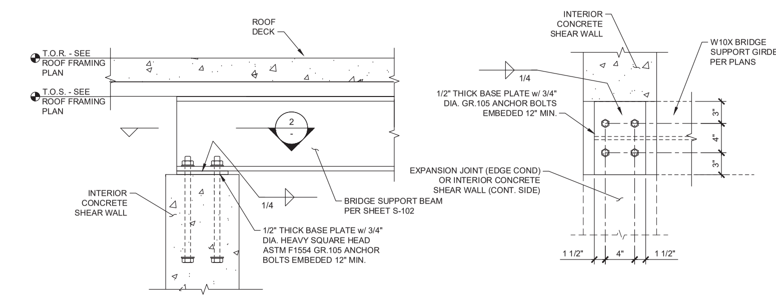
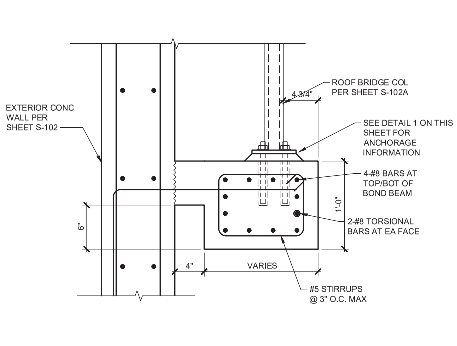


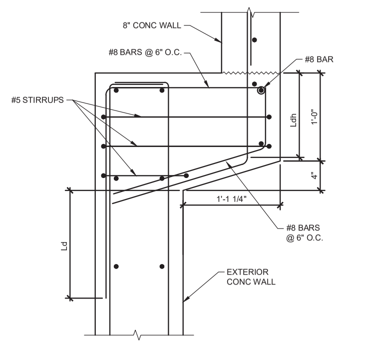
1 BRIDGING ELEMENT ANCHORAGE AT EXTERIOR WALL
SCALE: 3"=1'-0"



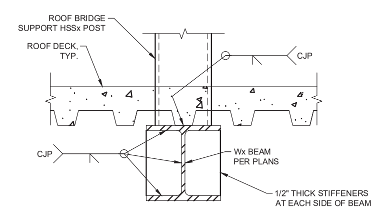
3 ROOF BRIDGE TO WALL ANCHORAGE
SCALE: 1 1/2" = 1'-0"



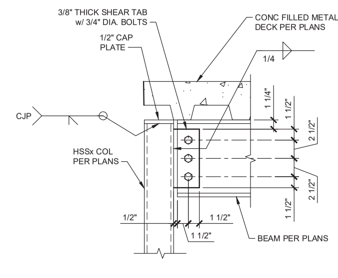
4 ANCHORAGE AT EXTERIOR WALL (FOUNTAIN LINTEL LOCATION)
SCALE: 1-1/2"=1'-0"



5 CONCRETE CORBEL
SCALE: 1-1/2"=1'-0"



6 ROOF BRIDGE SUPPORT POST TO BEAM
SCALE: 1-1/2" = 1'-0"



7 BEAM TO COLUMN CONNECTION
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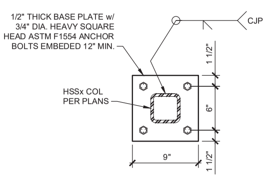

8 COLUMN BASE PLATE
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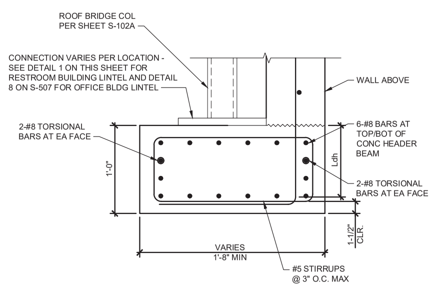
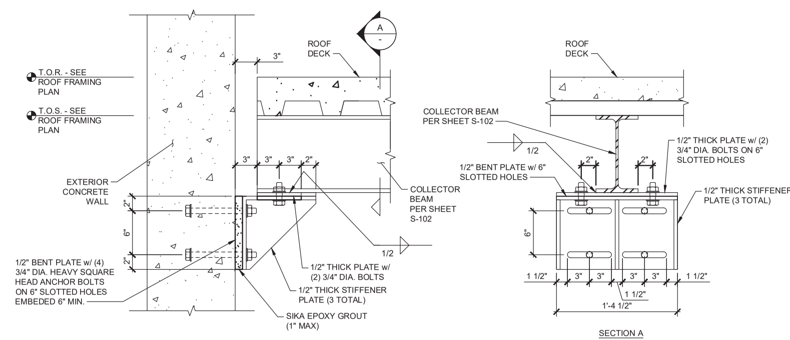


9 ANCHORAGE AT LINTELS WALL
SCALE: 1-1/2"=1'-0"



10 COLLECTOR ANCHORAGE AT EXTERIOR WALL
SCALE: 1-1/2"=1'-0"

PLANS PREPARED BY:
TETRA TECH, INC.
707 WILSHIRE BLVD. 23RD FLR.
LOS ANGELES, CA 90017
PHONE: (213) 239-8866

CITY OF LOS ANGELES
DEPARTMENT OF PUBLIC WORKS
BUREAU OF ENGINEERING

VERT. CONTROL: BM 12-04070, 1929 (NGVD29) - 1995 ADJUSTMENT
HORIZ. CONTROL: GPS; PID AE 1704, EPOCH 1991.35

SHEET TITLE: SUBGRADE PREP DETAILS
XXXXXXXXXX
PROJECT: SIXTH STREET PARK, ARTS AND RIVER CONNECTIVITY IMPROVEMENTS (PARC)
ADDRESS: SIXTH STREET OVER THE LOS ANGELES RIVER

GARY LEE MOORE, P.E., ENV SP
CITY ENGINEER
DESIGN GROUP
ENGINEER: MICHAEL OLSEN LIC. NO. C-85736 DATE: 07/11/22
DESIGNED BY: JUSTIN SMITH
DRAWN BY: XXXX
CHECKED BY: NATE SCHREINER
APPROVED BY: JASON L. FUSSEL

REGISTERED PROFESSIONAL ENGINEER MICHAEL S. OLSEN No. 81944 CIVIL STATE OF CALIFORNIA

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INDEX NO.
BUILDING NO.

ENGINEERING
CITY OF LOS ANGELES

WORK ORDER NO. E700235D
FILE NO. -
DRAWING NO. S-510
SHEET 261 OF 295 SHEETS

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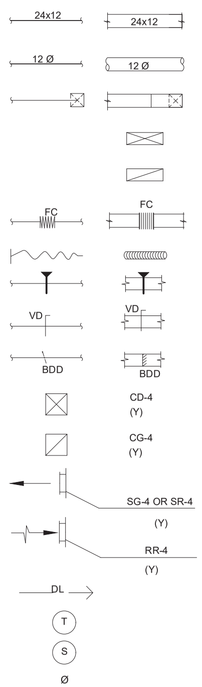
DUCTWORK SYMBOLS



- RECTANGULAR DUCT. FIRST NUMBER INDICATES SIDE IN VIEW, SECOND NUMBER INDICATES SIDE IN DEPTH.
- ROUND DUCT. NUMBER INDICATES DUCT DIAMETER
- 90° RADIUS ELBOW DOWN. USE 90° ELBOW W/ TURNING VANES WHEN RADIUS DOES NOT FIT
- DUCT SECTION-SUPPLY AIR/ OSA DUCT
- DUCT SECTION-RETURN AIR/ EXHAUST AIR DUCT
- FLEXIBLE CONNECTOR
- FLEXIBLE DUCT
- FIRE DAMPER
- VOLUME DAMPER
- BACKDRAFT DAMPER
- SUPPLY CEILING DIFFUSER SIZE 4-AIR QUANTITY (Y) CFM
- CEILING EXHAUST AND RETURN AIR REGISTER(GRILLE) SIZE 4-AIR QUANTITY (Y) CFM
- SUPPLY GRILLE OR REGISTER SIZE 4-AIR QUANTITY (Y) CFM
- RETURN/EXHAUST GRILLE OR REGISTER SIZE 4-AIR QUANTITY (Y) CFM
- DOOR LOUVER
- THERMOSTAT OR TEMPERATURE SENSOR
- WALL SWITCH
- INDICATES ROUND OR OVAL DUCT.

ABBREVIATIONS

AFF	ABOVE FINISHED FLOOR
AP	ACCESS PANEL
BDD	BACKDRAFT DAMPER
BTUH	BRITISH THERMAL UNITS/HOUR
CD	CEILING DIFFUSER
CFM	CUBIC FEET PER MINUTE
C.L.	CENTER LINE
CLG	CEILING
CONC	CONCRETE
CONT	CONTINUATION
D	DRAIN
DB	DRY BULB
DEG	DEGREE
DET	DETAIL
DIA	DIAMETER
DN	DOWN
EA	EXHAUST AIR
ea	EACH
EAT	ENTERING AIR TEMPERATURE
EFF	EFFICIENCY
EG	EXHAUST GRILLE
EL	ELEVATION
ELEC	ELECTRICAL
ENT	ENTERING
EXH	EXHAUST
EXST	EXISTING
DEG F	DEGREES FAHRENHEIT
FC	FLEXIBLE CONNECTION
FD	FIRE DAMPER
FLA	FULL LOAD AMPERES
FLR	FLOOR
FPM	FEET PER MINUTE
FT	FEET
FT2	SQUARE FEET
GA	GAUGE OR GAGE
HP	HORSE POWER
HR	HOUR
HVAC	HEATING, VENTILATION, AND AIR CONDITIONING
HZ	HERTZ
ID	INSIDE DIAMETER
IN	INCH
INWG	INCH OF WATER GAUGE
LAT	LEAVING AIR TEMPERATURE
LB	POUND
MAX	MAXIMUM
MBH	THOUSAND BTU PER HOUR
MCA	MINIMUM CURRENT AMPERES
MECH	MECHANICAL
MIN	MINIMUM
MOCP	MAX OVERCURRENT PROTECTION
NIC	NOT IN CONTRACT
NTS	NOT TO SCALE
N/A	NOT APPLICABLE
OSA	OUTSIDE AIR
OPNG	OPENING
PD	PRESSURE DROP
PH	PHASE
PSI	POUND PER SQUARE INCH
RA	RETURN AIR
RH	RELATIVE HUMIDITY
RPM	REVOLUTIONS PER MINUTE
RR	RETURN AIR REGISTER
RTN	RETURN
SF	SQUARE FEET
SG	SUPPLY GRILLE
SP	STATIC PRESSURE
SR	SUPPLY AIR REGISTER
SS	STAINLESS STEEL
TD	TRANSFER DUCT
TEMP	TEMPERATURE
TG	TRANSFER GRILLE
T STAT	THERMOSTAT
TYP	TYPICAL
UTR	UP THRU ROOF
V	VENT
VD	VOLUME DAMPER
W	WATT
W/	WITH
WB	WET BULB
WC	WATER COLUMN
WG	WATER GAUGE
WT	WEIGHT
YR	YEAR

GENERAL NOTES

A. ALL DIMENSIONS ARE IN ENGLISH UNITS.

B. DUCT DIMENSIONS ARE INSIDE CLEAR DIMENSIONS, EXCEPT FACTORY BUILT SUPPLY AND RETURN PLENUM. DUCT DIMENSIONS FOR FACTORY BUILT PLENUM ARE OUTSIDE DIMENSIONS.

C. VERIFY AND COORDINATE EQUIPMENT LAYOUT, SIZE, AND CONNECTING SERVICES WITH EQUIPMENT ACTUALLY SELECTED FOR INSTALLATION.

D. DO NOT SCALE DUCTWORK AND EQUIPMENT FOR SIZE.

E. COORDINATE ENTIRE INSTALLATION OF THE HVAC SYSTEMS WITH THE WORK OF ALL OTHER TRADES PRIOR TO ANY FABRICATION OR INSTALLATION.

F. COORDINATE EXACT LOCATION AND SIZES OF REQUIRED OPENINGS AND SUPPORTS FOR FURNISHED EQUIPMENT WITH THE GENERAL CONTRACTOR.

G. ALL EQUIPMENT SHALL BE INSTALLED IN STRICT ACCORDANCE WITH THE EQUIPMENT MANUFACTURER'S REQUIREMENTS.

H. PROVIDE ALL FITTINGS, TRANSITIONS, DAMPERS, VALVES, AND OTHER DEVICES REQUIRED FOR COMPLETE WORKABLE INSTALLATION.

I. ALL EQUIPMENT, DUCTS, PIPING, AND OTHER DEVICES OR MATERIAL EXPOSED TO THE WEATHER SHALL BE COMPLETELY WEATHERPROOF.

J. ALL VALVES, CONTROLS, DAMPERS, FANS, ETC. SHALL BE INSTALLED IN ACCESSIBLE LOCATION. PROVIDE ADEQUATELY SIZED ACCESS DOOR OR PANELS WHERE REQUIRED.

K. PROVIDE ALL MATERIALS AND EQUIPMENT AND PERFORM ALL LABOR REQUIRED TO INSTALL COMPLETE AND OPERABLE MECHANICAL SYSTEMS AS INDICATED ON THE DRAWINGS, AS SPECIFIED AND AS REQUIRED BY CODE.

L. CONTRACT DOCUMENT DRAWINGS FOR MECHANICAL WORK ARE DIAGRAMMATIC AND ARE INTENDED TO CONVEY SCOPE AND GENERAL ARRANGEMENT ONLY.

M. ALL CONTROL WIRING SHALL COMPLY WITH THE NATIONAL ELECTRICAL CODE AND DIVISION 26 OF THE SPECIFICATIONS.

N. MECHANICAL CONTRACTOR SHALL COORDINATE THE INSTALLATION OF ALL CONCRETE EQUIPMENT PADS WITH THE STRUCTURAL DRAWINGS AND THE ACTUAL SELECTED EQUIPMENT. PAD THICKNESS AS IDENTIFIED ON THE STRUCTURAL DRAWINGS IS CONSIDERED A MINIMUM.

O. PROVIDE SEISMIC BRACING OF MECHANICAL EQUIPMENT INCLUDING OVERHEAD UTILITIES AND FIXTURES WEIGHING OVER 30 POUNDS IN ACCORDANCE WITH SPECIFICATION SECTION 15020.

P. ALL SUPPLY/EXHAUST AIR REGISTERS SHALL BE PROVIDED WITH BALANCING DAMPERS IN THE RESPECTIVE BRANCH DUCTS UNLESS SPECIFICALLY INDICATED OTHERWISE.

EQUIPMENT DESIGNATION

EF	EXHAUST FAN
IH	INFRARED HEATER
HP	HEAT PUMP

PLANS PREPARED BY:
TETRA TECH, INC.
350 SOUTH GRAND AVENUE, SUITE 3310
LOS ANGELES, CALIFORNIA 90071
Phone: (213) 279-3283

CITY OF LOS ANGELES — DEPARTMENT OF PUBLIC WORKS — BUREAU OF ENGINEERING

VERT. CONTROL: BM 12-04070, 1929 (NGVD29) - 1985 ADJUSTMENT
HORIZ. CONTROL: GPS, PID AE 1704, EPOCH 1991.35

SHEET TITLE: MECHANICAL ABBREVIATIONS, SYMBOLS AND NOTES
PROJECT: SIXTH STREET PARK, ARTS AND RIVER CONNECTIVITY IMPROVEMENTS (PARC)
ADDRESS: SIXTH STREET OVER THE LOS ANGELES RIVER

WORK ORDER NO. E700235D
FILE NO. --
DRAWING NO. M-001
SHEET 262 OF 295 SHEETS

GARY LEE MOORE, P.E., ENV SP — CITY ENGINEER
DESIGN GROUP
ENGINEER: KEN KULONIS LIC. NO. M27379 DATE:
DESIGNED BY: KEN KULONIS
DRAWN BY: KEN KULONIS
CHECKED BY: JASON EUSSEL
APPROVED BY:

THIS PLAN WAS ELECTRONICALLY SIGNED AND STAMPED.
REGISTERED PROFESSIONAL ENGINEER KENNETH P. KULONIS No. 27379 Exp. 6-30-2023 MECHANICAL STATE OF CALIFORNIA

NO. | REVISIONS | DATE | BY
INDEX NO.
BUILDING NO.

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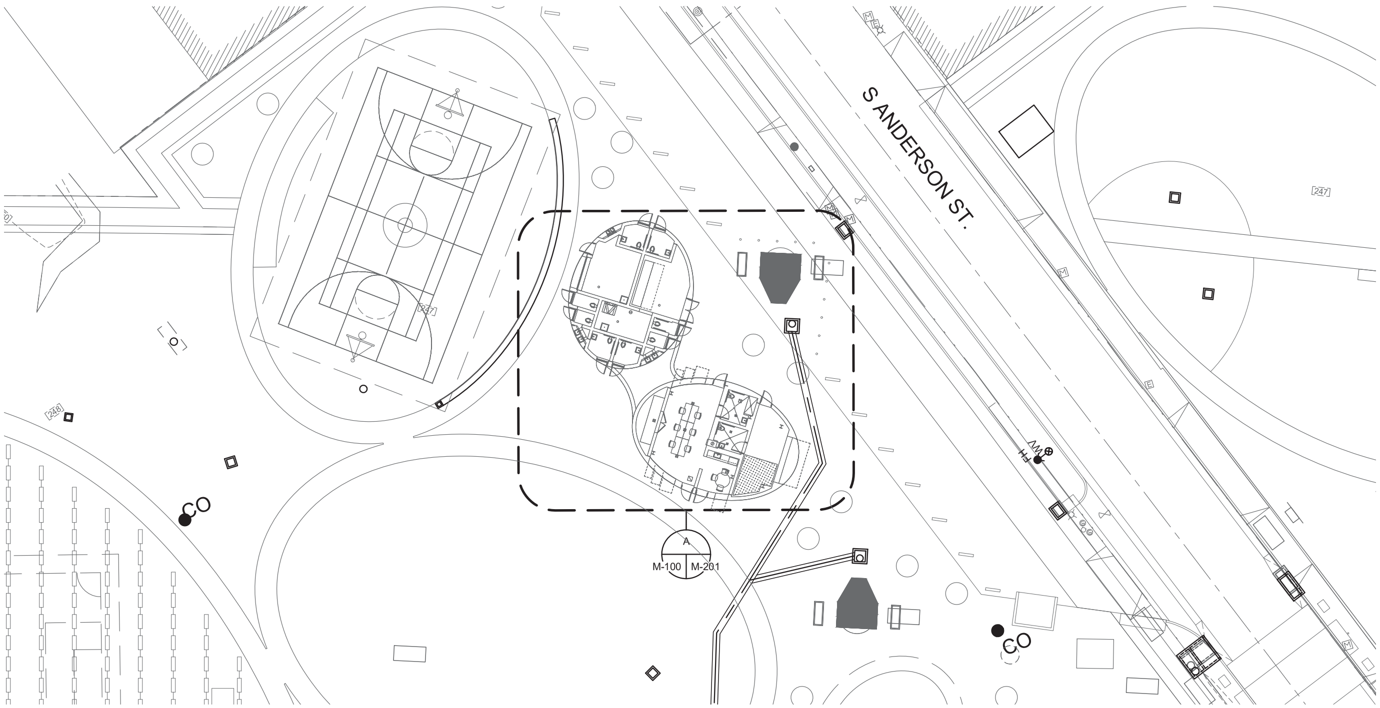

STAFF AND RESTROOM BULIDING SITE PLAN

SCALE: 1/16" = 1'-0"

PLANS PREPARED BY:

TETRA TECH, INC.
350 SOUTH GRAND AVENUE, SUITE 3310
LOS ANGELES, CALIFORNIA 90071
Phone: (213) 279-3283

CITY OF LOS ANGELES — DEPARTMENT OF PUBLIC WORKS — BUREAU OF ENGINEERING

VERT. CONTROL: BM 12-04070, 1929 (NGVD29) - 1985 ADJUSTMENT
HORIZ. CONTROL: GPS; PID AE 1704, EPOCH 1991.35

SHEET TITLE: MECHANICAL SITE PLAN - STAFF AND SHOP BUILDINGS
PROJECT: SIXTH STREET PARK, ARTS AND RIVER CONNECTIVITY IMPROVEMENTS (PARC)
ADDRESS: SIXTH STREET OVER THE LOS ANGELES RIVER

WORK ORDER NO. E700235D
FILE NO. --
DRAWING NO. M-100
SHEET 263 OF 295 SHEETS

GARY LEE MOORE, P.E., ENV SP — CITY ENGINEER
DESIGN GROUP
LIC. NO. M27379
DATE:
ENGINEER: KEN KULONIS
DESIGNED BY: KEN KULONIS
DRAWN BY: KEN KULONIS
CHECKED BY: JASON EUBSSEL
APPROVED BY:

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INDEX NO.

BUILDING NO.

ENGINEERING — CITY OF LOS ANGELES

REVISION DATES (DESIGN STAGE ONLY)

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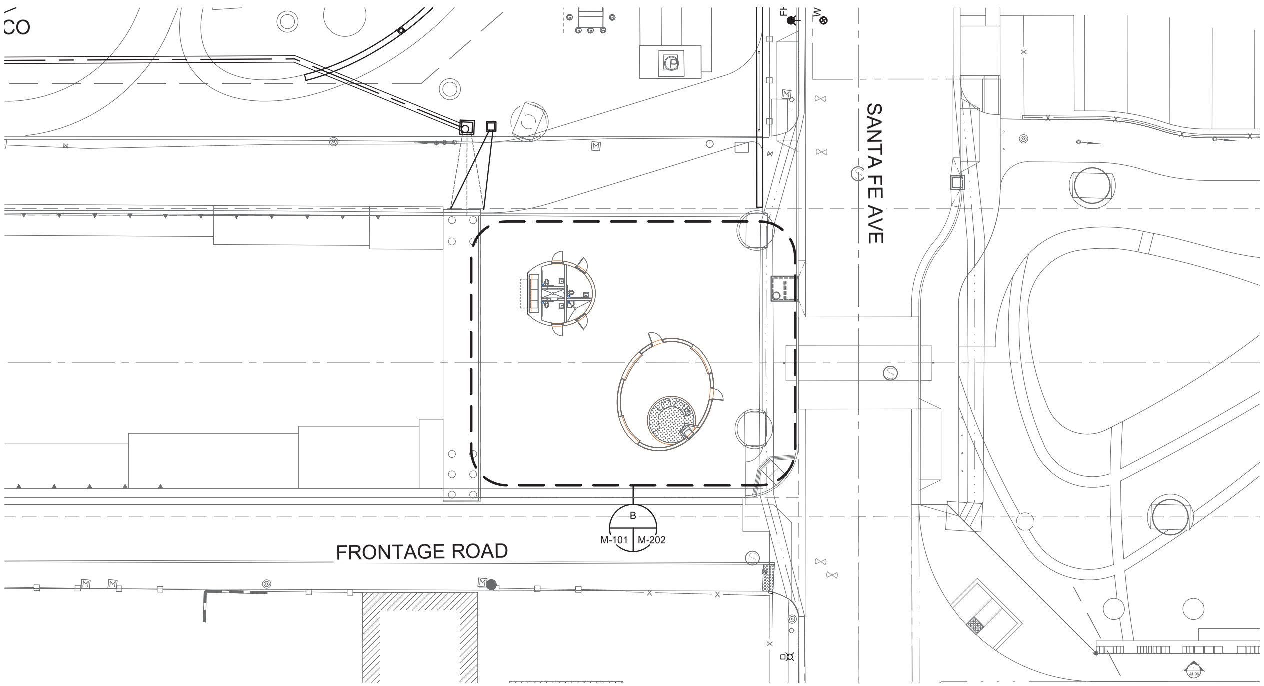

CAFE AND RESTROOM BULIDING SITE PLAN

SCALE: 1/16" = 1'-0"

PLANS PREPARED BY:
TETRA TECH, INC.
350 SOUTH GRAND AVENUE, SUITE 3310
LOS ANGELES, CALIFORNIA 90071
Phone: (213) 279-3283

CITY OF LOS ANGELES — DEPARTMENT OF PUBLIC WORKS — BUREAU OF ENGINEERING

VERT. CONTROL: BM 12-04070, 1929 (NGVD29) - 1985 ADJUSTMENT
HORIZ. CONTROL: GPS; PID AE 1704, EPOCH 1991.35

SHEET TITLE: MECHANICAL SITE PLAN RESTROOM AND CAFE

PROJECT: SIXTH STREET PARK, ARTS AND RIVER CONNECTIVITY IMPROVEMENTS (PARC)

ADDRESS: SIXTH STREET OVER THE LOS ANGELES RIVER

WORK ORDER NO. E700235D
FILE NO. --
DRAWING NO. M-101
SHEET 264 OF 295 SHEETS

GARY LEE MOORE, P.E., ENV SP — CITY ENGINEER — DATE:
DESIGN GROUP — LIC. NO. M27379
ENGINEER: KEN KULONIS
DESIGNED BY: KEN KULONIS
DRAWN BY: KEN KULONIS
CHECKED BY: JASON L. RUSSEL
APPROVED BY:

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REGISTERED PROFESSIONAL ENGINEER KENNETH P. KULONIS No. 27379 Exp. 6-30-2023 MECHANICAL STATE OF CALIFORNIA

NO.	REVISIONS:	DATE:	BY:

INDEX NO.

BUILDING NO.

ENGINEERING CITY OF LOS ANGELES

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STAFF AND RESTROOM BUILDING FLOOR PLAN

N

0 2' 4' 8'
SCALE: 1/4" = 1'-0"

PLANS PREPARED BY:

TETRA TECH, INC.
350 SOUTH GRAND AVENUE, SUITE 3310
LOS ANGELES, CALIFORNIA 90071
Phone: (213) 279-3283

CITY OF LOS ANGELES
DEPARTMENT OF PUBLIC WORKS
BUREAU OF ENGINEERING

VERT. CONTROL: BM 12-04070, 1929 (NGVD29) - 1985 ADJUSTMENT
HORIZ. CONTROL: GPS; PID AE 1704, EPOCH 1991.35

SHEET TITLE: MECHANICAL FLOOR PLANS
SHOP AND STAFF
PROJECT: SIXTH STREET PARK, ARTS AND RIVER
CONNECTIVITY IMPROVEMENTS (PARC)
ADDRESS: SIXTH STREET OVER THE
LOS ANGELES RIVER

WORK ORDER NO. E700235D
FILE NO. --
DRAWING NO. M-201
SHEET 265 OF 295 SHEETS

GARY LEE MOORE, P.E., ENV SP
CITY ENGINEER
DESIGN GROUP
DATE:
ENGINEER: KEN KULONIS
LIC. NO. M27379
DESIGNED BY: KEN KULONIS
DRAWN BY: KEN KULONIS
CHECKED BY: JASON LI RUSSEL
APPROVED BY:

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REGISTERED PROFESSIONAL ENGINEER
KENNETH P. KULONIS
No. 27379
Exp. 6-30-2023
MECHANICAL
STATE OF CALIFORNIA

NO.	REVISIONS:	DATE:	BY:

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BUILDING NO.

ENGINEERING
CITY OF LOS ANGELES

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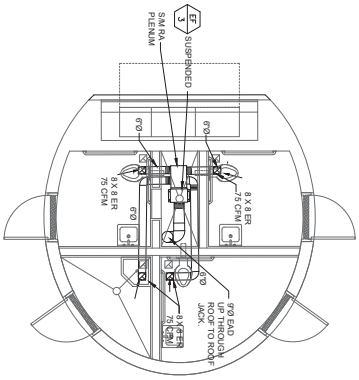
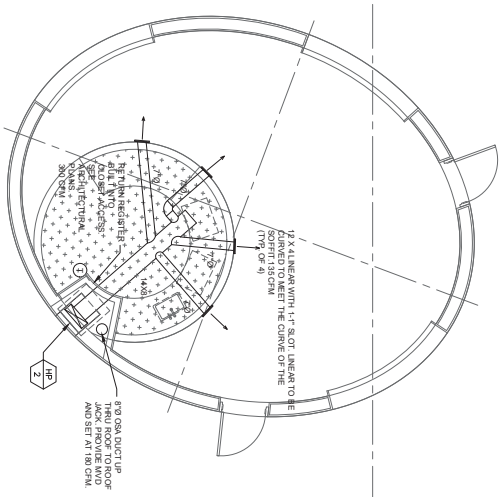
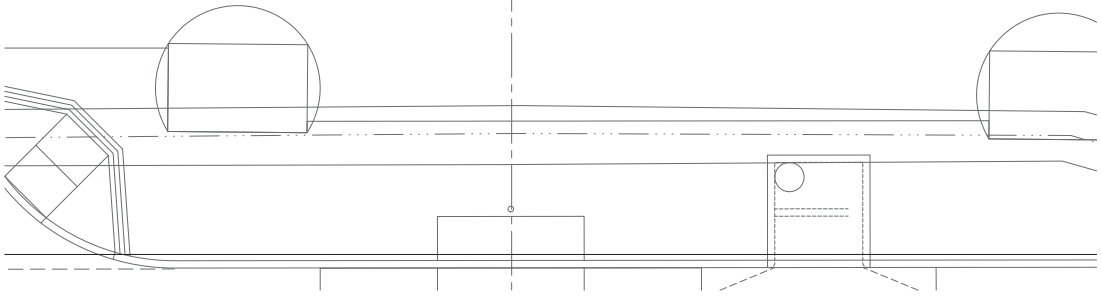
CAFE AND RESTROOM BUILDING FLOOR PLAN







SCALE: 1/4" = 1'-0"

PLANS PREPARED BY:

TETRA TECH, INC.
350 SOUTH GRAND AVENUE, SUITE 3310
LOS ANGELES, CALIFORNIA 90071
Phone: (213) 279-3283

CITY OF LOS ANGELES — DEPARTMENT OF PUBLIC WORKS — BUREAU OF ENGINEERING

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VERT. CONTROL: BM 12-04070, 1929 (NGVD29) - 1985 ADJUSTMENT
HORIZ. CONTROL: GPS, PID AE 1704, EPOCH 1991.35

SHEET TITLE: MECHANICAL FLOOR PLAN RESTROOM AND CAFE
PROJECT: SIXTH STREET PARK, ARTS AND RIVER CONNECTIVITY IMPROVEMENTS (PARC)
ADDRESS: SIXTH STREET OVER THE LOS ANGELES RIVER

GARY LEE MOORE, P.E., ENV SP — CITY ENGINEER

DESIGN GROUP:	DATE:
ENGINEER: KEN KULONIS	LIC. NO. M27379
DESIGNED BY: KEN KULONIS	
DRAWN BY: KEN KULONIS	
CHECKED BY: JASON LIFFSEL	
APPROVED BY:	

REGISTERED PROFESSIONAL ENGINEER — KEN KULONIS — No. 27379 — CIVIL — 6-30-2023

NO.	REVISIONS:	DATE:	BY:

INDEX NO.

BUILDING NO.

ENGINEERING — CITY OF LOS ANGELES

SHEET 286 OF 295 SHEETS — DRAWING NO. M-202 — T.E.B. NO. – — WORK ORDER NO. E7002350

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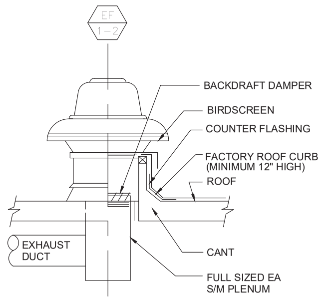
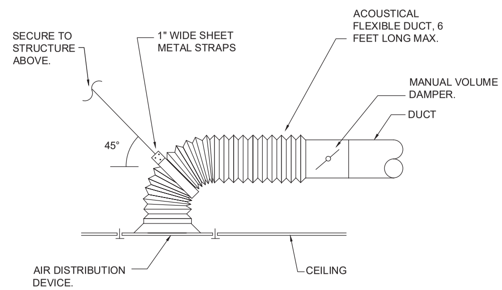


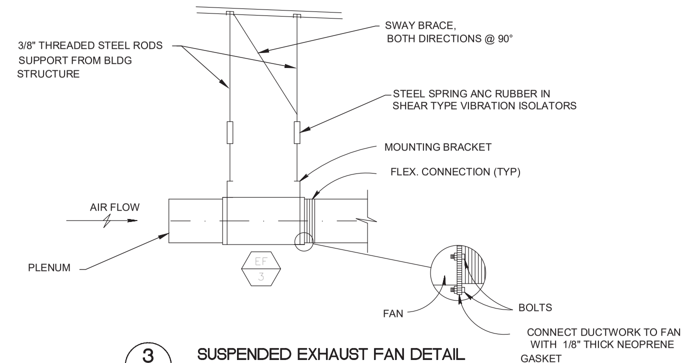
1 VARIES M501 ROOF MOUNTED EXHAUST FAN DETAIL

SCALE: NONE



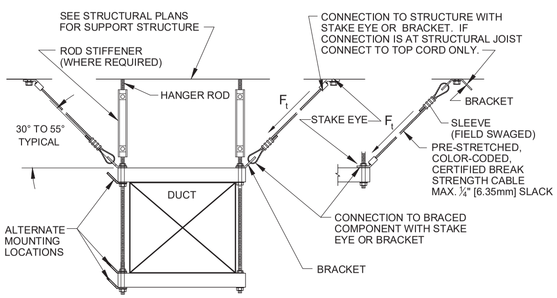
2 VARIES M501 DIFFUSER/REGISTER DETAIL

NOT TO SCALE

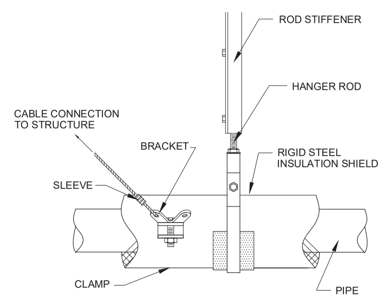


3 M202 M501 SUSPENDED EXHAUST FAN DETAIL

NOT TO SCALE



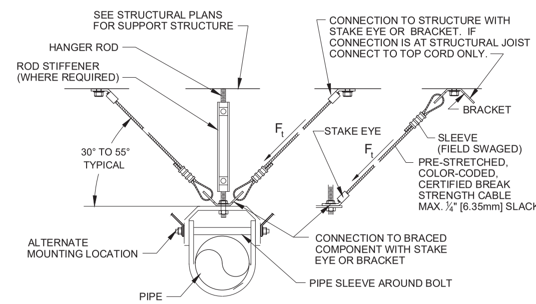
TYPICAL SEISMIC CABLE LAYOUT FOR DUCT



TYPICAL SEISMIC CABLE LAYOUT
LONGITUDINAL/TRANSVERSE PIPE RESTRAINT

NOTE:

1. CONTRACTOR IS RESPONSIBLE FOR DETERMINING LAYOUT, SPACING, AND ATTACHMENTS.



TYPICAL SEISMIC CABLE LAYOUT TRANSVERSE PIPE RESTRAINT

4 VARIES M502 SEISMIC RESTRAINT DETAILS

NOT TO SCALE

REVISION DATES (DESIGN STAGE ONLY)

PLANS PREPARED BY:

TETRA TECH, INC.
350 SOUTH GRAND AVENUE, SUITE 3310
LOS ANGELES, CALIFORNIA 90071
Phone: (213) 279-3283

CITY OF LOS ANGELES — DEPARTMENT OF PUBLIC WORKS — BUREAU OF ENGINEERING

ENGINEERING — CITY OF LOS ANGELES

VERT. CONTROL: BM 12-04070, 1929 (NGVD29) - 1985 ADJUSTMENT
HORIZ. CONTROL: GPS; PID AE 1704, EPOCH 1991.35

SHEET TITLE: MECHANICAL DETAILS

PROJECT: SIXTH STREET PARK, ARTS AND RIVER CONNECTIVITY IMPROVEMENTS (PARC)

ADDRESS: SIXTH STREET OVER THE LOS ANGELES RIVER

GARY LEE MOORE, P.E., ENV SP — CITY ENGINEER

DESIGN GROUP — DATE:

ENGINEER: KEN KULONIS — LIC. NO. M27379

DESIGNED BY: KEN KULONIS

DRAWN BY: KEN KULONIS

CHECKED BY: JASON EUBSSEL

APPROVED BY:

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REGISTERED PROFESSIONAL ENGINEER — KENNETH P. KULONIS — No. 27379 — Exp. 6-30-2023 — MECHANICAL — STATE OF CALIFORNIA

NO.	REVISIONS:	DATE	BY:

INDEX NO.

BUILDING NO.

WORK ORDER NO. E700235D

FILE NO. --

DRAWING NO. M-501

SHEET 267 OF 295 SHEETS

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PACKAGED HEAT PUMP SCHEDULE

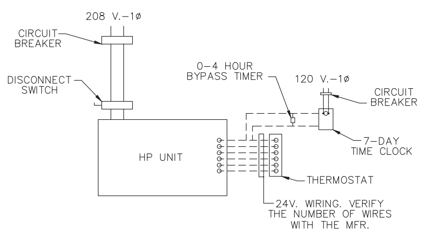
MARK	MANUF.	MODEL NUMBER	SUPPLY FAN CFM	SUPPLY FAN OSA	SUPPLY FAN ESP	SUPPLY FAN MOTOR HP	SERVICE	COOLING DATA TOTAL CAP. MBH	COOLING DATA SENS. CAP. MBH	COOLING DATA SEER	HEATING DATA TOTAL CAP. MBH	HEATING DATA COP	AUX HEAT KW	ELECTRICAL VOLT	ELECTRICAL PH	ELECTRICAL HZ	ELECTRICAL MCA	ELECTRICAL MAX. FUSE	OPER. WEIGHT	REMARKS
HP 1	GOODMAN	GPH1424H41D	720	225	0.5	1/2	STAFF	24.0	17.8	14.5	22.8	3.8	8	208	1	60	57	60	315	PROVIDE OVERFLOW CONDENSATE SWITCH, MFR ROOF MOUNTING CURB, & SINGLE POINT KIT
HP 2	FRIEDRICH	VHA24K	540	180	0.3	-	CAFE	22.5	15.7	14.0	19.5	3.3	5.0	208	1	60	29	30	225	PROVIDE OVERFLOW CONDENSATE SWITCH, SINGLE POINT KIT

UNIT HEATER SCHEDULE

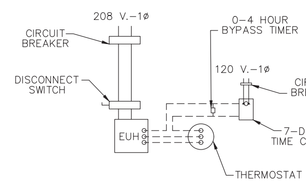
SYM.	MFGR MODEL	TYPE	LOCATION FLOOR AREA	SERVICE	CFM	CAPACITY INPUT (MBH)	CAPACITY OUTPUT (MBH)	KW	ELECTRICAL V-PH	ELECTRICAL FLA	OPER. WT. (LBS)	REMARKS
EUH 1	REZNOR EGHB-3	ELECTRIC	ELECTRIC ROOM SUSPENDED	GENERAL HEAT	510	–	10.2	3	208-1	–	45	
EUH 2	REZNOR EGHB-3	ELECTRIC	ELECTRIC ROOM SUSPENDED	GENERAL HEAT	510	–	10.2	3	208-1	–	45	

EXHAUST FAN SCHEDULE

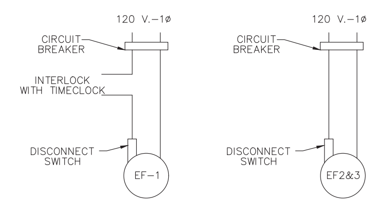
SYM.	MFGR MODEL	TYPE	LOCATION FLOOR AREA	SERVICE	FLOW (CFM)	S.P. ("wc)	RPM	VOLTAGE	FAN (HP)	OPER. WT. (LBS)	REMARKS
EF 1	GREENHECK G-080-VG	ROOF MOUNTED	STAFF AREA ROOF	TOILET ROOM EXHAUST	225	0.3	1275	120-1	1/10	27	PROVIDE MANUFACTURERS ROOF CURB, BACKDRAFT DAMPER, AND DISCONNECT SWITCH
EF 2	GREENHECK GB-101-4	ROOF MOUNTED	SHOP AREA ROOF	TOILET ROOM EXHAUST	825	0.5	1329	120-1	1/4	56	PROVIDE MANUFACTURERS ROOF CURB, BACKDRAFT DAMPER, AND DISCONNECT SWITCH
EF 3	GREENHECK CSP-A390-VG	INLINE SUSPENDED	RESTROOM BLDG.	TOILET ROOM EXHAUST	300	0.3	995	120-1	55 WATTS	24	PROVIDE SPRING ISOLATION, BACKDRAFT DAMPER, AND DISCONNECT SWITCH



HEAT PUMP CONTROL DIAGRAM



ELECTRIC UNIT HEATER CONTROL DIAGRAM



EXHAUST FAN CONTROL DIAGRAM

PLANS PREPARED BY:
TETRA TECH, INC.
350 SOUTH GRAND AVENUE, SUITE 3310
LOS ANGELES, CALIFORNIA 90071
Phone: (213) 279-3283

CITY OF LOS ANGELES — DEPARTMENT OF PUBLIC WORKS — BUREAU OF ENGINEERING

VERT. CONTROL: BM 12-04070, 1929 (NGVD29) - 1985 ADJUSTMENT
HORIZ. CONTROL: GPS; PID AE 1704, EPOCH 1991.35

SHEET TITLE: MECHANICAL SCHEDULES
PROJECT: SIXTH STREET PARK, ARTS AND RIVER CONNECTIVITY IMPROVEMENTS (PARC)
ADDRESS: SIXTH STREET OVER THE LOS ANGELES RIVER

GARY LEE MOORE, P.E., ENV SP — CITY ENGINEER
DESIGN GROUP
ENGINEER: KEN KULONIS — LIC. NO. M27379 — DATE:
DESIGNED BY: KEN KULONIS
DRAWN BY: KEN KULONIS
CHECKED BY: JASON EUSSEL
APPROVED BY:

THIS PLAN WAS ELECTRONICALLY SIGNED AND STAMPED

REGISTERED PROFESSIONAL ENGINEER KENNETH P. KULONIS No. 27379 Exp. 6-30-2023 MECHANICAL STATE OF CALIFORNIA

NO. | REVISIONS: | DATE | BY:

INDEX NO.

BUILDING NO.

WORK ORDER NO. E700235D
FILE NO. --
DRAWING NO. M-601
SHEET 268 OF 295 SHEETS

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STATE OF CALIFORNIA

Envelope Component Approach

NRCC-ENV-E

CALIFORNIA ENERGY COMMISSION

CERTIFICATE OF COMPLIANCE			NRCC-ENV-E
This document is used to demonstrate compliance with mandatory requirements in §110.8(g) and §120.7(b) for newly constructed buildings, and §141.0(b)1 for alterations, related to roof, wall and floor assemblies. It is also used to demonstrate compliance with prescriptive requirements in §140.3 for newly constructed buildings, and §141.0 for additions and alterations, related to roof, wall, floor, door, fenestration and daylighting requirements.			
Project Name:	PARC Staff Building	**Report Page:**	**(Page 1 of 8)**
Project Address:		**Date Prepared:**	2022-06-27T17:05:34-04:00

A. GENERAL INFORMATION

01	Project Location (city)	Los Angeles	05	# of Stories (Habitable Above Grade)	0
02	Zipcode	90023	06	Total Conditioned Floor Area (ft²)	1650
03	Climate Zone	9	07	Total Unconditioned Floor Area (ft²)	200
04	Occupancy Types Within Project: (select all that apply): If one occupancy constitutes >= 80% of the conditioned floor area, the entire building envelope may be designed to comply with the provisions of that occupancy per §100.0(f).		08	☐	Project includes unconditioned enclosed space(s) > 5,000 ft² under a roof with a ceiling height of at least 15 ft.[1]

☒	All Nonresidential, including Relocatable Public School Building certified for use in one climate zone Occupancy: A / B / E / F / H / M / S / U	☐	Relocatable Public School Building for use in all climate zones Occupancy: E	☐	High-Rise Residential Occupancy: R-2 / R-3	☐	Hotel/Motel Guest Rooms Occupancy: R-1

[1] *FOOTNOTE: Enclosed spaces > 5,000 ft² directly under roof with ceiling height > 15 ft in climate zones 2 through 15 are required to meet the minimum daylighting requirements defined in §140.3(c). Compliance with §140.3(c) is documented in Table L. This is the only prescriptive requirement which applies to unconditioned spaces.*

B. PROJECT SCOPE

This table specifies project envelope components within the permit application demonstrating compliance using the prescriptive paths outlined in §140.3, and §141.0(a)1 and §141.0(b)1 and 2 for additions and alterations.

My project consists of (check all that apply)	Component Types					
01	02					
☒ New Construction or Newly Conditioned Space	☒	Roof	☒	Walls	☒	Exterior Doors
☐ One or more enclosed spaces > 5,000 ft² directly under roof with ceiling height > 15ft			☐	Floors	☒	Fenestration/ Glazed Doors[1]
☐ Addition of conditioned space	☐	Roof	☐	Walls	☐	Exterior Doors
☐ One or more enclosed spaces > 5,000 ft² directly under roof with ceiling height > 15ft			☐	Floors	☐	Fenestration/ Glazed Doors[1]
☐ Alteration of conditioned space	☐	Roof Assembly	☐	Walls		Exterior Doors NA. for Alts.
☐ One or more enclosed spaces > 5,000 ft² directly under roof with ceiling height > 15ft and lighting system installed for the first time	☐	Roofing Material	☐	Floors	☐	Fenestration/ Glazed Doors

[1] *FOOTNOTE: Doors that are more than 25% glass in area are considered Glazed Doors and should be documented on table K with fenestration.*

STATE OF CALIFORNIA

Envelope Component Approach

NRCC-ENV-E

CALIFORNIA ENERGY COMMISSION

CERTIFICATE OF COMPLIANCE			NRCC-ENV-E
Project Name:	PARC Staff Building	**Report Page:**	**(Page 2 of 8)**
Project Address:		**Date Prepared:**	2022-06-27T17:05:34-04:00

C. COMPLIANCE RESULTS

Results in this table are automatically calculated from data input and calculations in Tables F through L. Note: If any cell on this table says "COMPLIES with Exceptional Conditions" refer to Table D. Exceptional Conditions for guidance or see the applicable table referenced below.

Opaque Envelope Components					Fenestration	Daylighting Spaces > 5,000ft²	Compliance Results
Roof Assembly	Roofing Materials	Walls	Floors	Doors			
01	02	03	04	05	06	07	08
(See Table F)	(See Table G)	(See Table H)	(See Table I)	(See Table J)	(See Table K)	(See Table L)	COMPLIES with Exceptional Conditions
Yes	Yes	Yes		Yes	Yes		

D. EXCEPTIONAL CONDITIONS

This table is auto-filled with uneditable comments because of selections made or data entered in tables throughout the form.

Table H indicates an area weighted average is being used for one or more wall assemblies to demonstrate compliance. Area-weighted average tables are included at the bottom of Table H.

E. ADDITIONAL REMARKS

This table includes remarks made by the permit applicant to the Authority Having Jurisdiction.

F. ROOF ASSEMBLY SCHEDULE

This table demonstrates compliance for prescriptive roof assembly requirements in §140.3(a)1B for new construction or additions, or §141.0(b)2Bii for alterations.

01	Indicate roof types included in the project:	☐ Framed	☐ SIPS	☒ Span Deck & Concrete	☐ Metal Panels	☐ Metal Building

Framed Roof Assemblies

Structural Insulated Panels (SIPS) Roof/Ceiling Assemblies

Span Deck And Concrete Roof Assemblies

01	☐	Include Span Deck and Concrete Roof Assemblies in Area-Weighted Average U-factor Calculation[1]		
02	03	04	05	06
Tag/Plan Detail ID	Name/Description	Status	Exception to Roof Insulation Requirements in §141.0(b)2Bii (Alts. Only)	Occupancy Type
Detail 2-AE6-01	Roof Hatch Section	New		Nonresidential/ Relocatable 1 CZ

STATE OF CALIFORNIA

Envelope Component Approach

NRCC-ENV-E

CALIFORNIA ENERGY COMMISSION

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F. ROOF ASSEMBLY SCHEDULE

07	08	09	10	11	12	13	14		15
Tag/Plan Detail ID	How Design U-factor was determined	Fireproofing	Concrete Topping Thickness (in.)	Continuous Insulation per Design	Thermal Performance Unit	Required Thermal Performance	U-factor per Design		Net Area[3] ft²
Detail 2-AE6-01	JA4 Tables	No	4 in.	R-30	U-factor	0.034	per JA4	0.031	
							per Software/ Other		

[1] *FOOTNOTES: If any individual assembly is non-compliant, assemblies may show compliance using an area-weighted calculation. Metal building roofs may not be combined with other roof types. The area-weighted compliance option is not available for alterations demonstrating compliance with R-values in Table 141.0-C.*

[2] *If "R-value" is shown in cell 13 as the Thermal Performance Unit, the R-value shown here is for continuous insulation per Table 141.0-C.*

[3] *Roof area minus any fenestration/ skylight area*

Metal Panel Assemblies

Metal Building Roof Assemblies

Area-Weighted Average U-factor Compliance Calculation for Framed/ SIPs/ Span Deck & Concrete/ Metal Panel Roofs

Area-Weighted Average U-factor Compliance Calculation for Metal Building Roof

G. RATED ROOFING MATERIAL (COOL ROOF)

This table demonstrates compliance with prescriptive roof material requirements in §140.3(a)1A for new construction or additions, or §141.0(b)2B for alterations.

01	02	03	04	05	06	07	08		09		10
Tag/Plan Detail ID	Name/Description	Status	Occupancy Type	Roof Slope	Roof Material	Compliance Method	Required Minimum Material Performance		Designed Material Performance		U-factor of Assembly
4-AE-6-01	Roof Exhaust Section	New	Nonresidential/ Relocatable 1 CZ	<2:12 (Low)	Polymer or Composite	Solar Reflectance (Initial)/ Emittance	Reflectance	0.63	Reflectance	0.64	
							Emittance	0.75	Emittance	0.75	
							SRI		SRI		

STATE OF CALIFORNIA

Envelope Component Approach

NRCC-ENV-E

CALIFORNIA ENERGY COMMISSION

CERTIFICATE OF COMPLIANCE			NRCC-ENV-E
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H. WALL ASSEMBLY SCHEDULE

This table demonstrates compliance with prescriptive wall assembly requirements in §140.3(a)2 and §140.3(a)3 for new constructions or additions, or mandatory wall assembly requirements in §141.0(b)1B for alterations.

01	Indicate wall types included in the project:[1]	☐ Framed	☒ Mass (new only)	☐ Concrete Sandwich Panel (new only)	☐ SIPS	☐ ICF (new only)
		☐ Metal Panels	☐ Metal Building	☐ Spandrel/ Curtain Wall	☐ Straw Bale	☐ Log Home (new only)

[1] *FOOTNOTES: Wall types indicated above as "(new only)" do not have Title 24, Part 6 requirements for alterations. New construction and additions do have requirements and should be clicked above and compliance demonstrated within this table.*

Mass Walls (new walls only)

01	☐	Calculate Area-Weighted Average U-factor for Mass Walls[1]									
02	03	04	05	06	07	08	09	10	11		12
Tag/Plan Detail ID	Occupancy Type	How Design U-factor was determined	Mass Information: Mass Material	Mass Information: Fill Options	Mass Information: Thickness (in)	Additional Insulation Information: Frame Material & Thickness	Additional Insulation Information: Cavity Insulation per Design	Maximum U-factor Allowed[2]	U-factor per Design		Net Area[3] ft²
Detail 1-AE4-02	Nonresidential/ Relocatable 1 CZ	JA4 Tables	Concrete	Solid Unit	12 in			0.6899	per JA4	0.63	
									per Software/ Other		

[1] *FOOTNOTES: If any individual assembly is non-compliant, assemblies may show compliance using an area-weighted calculation. Mass walls are combined with concrete sandwich panel, log and ICF wall types. Mass walls must meet mandatory requirements in §120.7(b), but may area-weight to comply with prescriptive requirements in Table 140.3 for new construction.*

[2] *Mass walls are defined as "light" or "heavy" depending on their Heat Capacity. Heat Capacity is determined in Tables 4.3.5 and 4.3.6 in Joint Appendix 4. Walls with Heat Capacity of 15 or greater are "heavy" while walls with Heat Capacity from 7 to less than 15 are "light". Walls with heat capacity less than 7 would be categorized as "Wood framed and Other" for compliance purposes.*

[3] *Wall area minus any fenestration area*

I. FLOOR ASSEMBLY SCHEDULE

This section does not apply to this project.

PLANS PREPARED BY:

TETRA TECH, INC.
350 SOUTH GRAND AVENUE, SUITE 3310
LOS ANGELES, CALIFORNIA 90071
Phone: (213) 279-3283

CITY OF LOS ANGELES — DEPARTMENT OF PUBLIC WORKS — BUREAU OF ENGINEERING

VERT. CONTROL: BM 12-04070, 1929 (NGVD29) - 1985 ADJUSTMENT
HORIZ. CONTROL: GPS, PID AE 1704, EPOCH 1991.35

SHEET TITLE: TITLE 24 FORMS-STAFF BLDG.

PROJECT: SIXTH STREET PARK, ARTS AND RIVER CONNECTIVITY IMPROVEMENTS (PARC)

ADDRESS: SIXTH STREET OVER THE LOS ANGELES RIVER

WORK ORDER NO. E700235D

FILE NO. --

DRAWING NO. M-800

SHEET 269 OF 295 SHEETS

GARY LEE MOORE, P.E., ENV SP — CITY ENGINEER

DESIGN GROUP — MECHANICAL

ENGINEER: KEN KULONIS — LIC. NO. M27379 — DATE:

DESIGNED BY: KEN KULONIS

DRAWN BY: KEN KULONIS

CHECKED BY: JASON EUBSSEL

APPROVED BY:

THIS PLAN WAS ELECTRONICALLY SIGNED AND STAMPED

REGISTERED PROFESSIONAL ENGINEER — KENNETH P. KULONIS — No. 27379 — Exp. 6-30-2023 — MECHANICAL — STATE OF CALIFORNIA

NO. | REVISIONS | DATE | BY

INDEX NO.

BUILDING NO.

ENGINEERING — CITY OF LOS ANGELES

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Envelope Component Approach

NRCC-ENV-E

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CERTIFICATE OF COMPLIANCE			NRCC-ENV-E
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J. EXTERIOR DOOR SCHEDULE

This table demonstrates compliance with prescriptive exterior door requirements in §140.3(a)7 for new construction or additions. Doors which are being replaced (alterations) do not need to be documented in this table because there are no Title 24, Part 6 requirements that apply. Exterior doors separate conditioned space from unconditioned space or from ambient air. Doors that are more than 25% glass in area are considered Glazed Doors and should be documented on Table K with fenestration per Table B.

01	02	03	04	05	06	07	
Tag/Plan Detail ID	Name/Description	Occupancy Type	Door Type	Door Insulation	Maximum Allowed U-factor	U-factor per Design	
Type C doors	3/AE5-04	Nonresidential/ Relocatable 1 CZ	Swinging	Insulated metal swing doors	0.7	per JA4	0.5
Type D door	3/AE5-04	Nonresidential/ Relocatable 1 CZ	Non-swinging	Insulated single layer metal sectional doors with EPS	1.45	per JA4	0.179

K. FENESTRATION AND GLAZED DOOR SCHEDULE

This table demonstrates compliance with prescriptive fenestration requirements in §140.3(a)5 for new constructions or additions, or §140.1(b)2A for alterations. Exterior doors that are more than one-half glass in area are considered Glazed Doors and should be documented on this table with fenestration.

01	Indicate fenestration types included in the project:[1]	☐ Vertical (alterations)	☒ Vertical (new)	☐ Skylights	☐ Glazed Doors (new only)

[1] *FOOTNOTES: Fenestration types indicated above as "(new only)" do not have Title 24, Part 6 requirements for alterations. New construction and additions do have requirements and should be clicked above and compliance demonstrated within this table.*

Vertical Fenestration and Glazed Doors- Total Building & West Facing Area (New Construction & Additions Only)

01	02	03	04	05
Elevation Item Tag/ Description	Orientation (Azimuth)[1]	Gross Exterior Wall Area[2]	Display Perimeter Length[3]	Vertical Fenestration Area per Design[3]
1/AE5-04	North Facing	310	0	34
1/AE5-04	South Facing	310	0	49

06	Maximum Allowed Vertical Fenestration (ft²)- All Orientations	248	07	Total Vertical Fenestration (ft²) per design- All Orientations	83
08	Maximum Allowed Vertical Fenestration (ft²)- West Facing	0	09	Total Vertical Fenestration (ft²) per design- West Facing	0

[1] *FOOTNOTES: Orientation between 226 deg and 315 deg are considered "West Facing". A diagram has been provided in the Nonresidential Compliance Manual for visual reference.*

[2] *Do not include demising walls per §140.3(a)5 .*

[3] *Includes glazed door fenestration area .*

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Envelope Component Approach

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K. FENESTRATION AND GLAZED DOOR SCHEDULE

Vertical Fenestration And Glazed Doors- U-factor, Solar Heat Gain Coefficient (RSHGC/ SHGC), Visible Transmittance (VT)

01	☐	Calculate Area-Weighted Average U-factor for Vertical Fenestration and Glazed Doors[1]
02	☐	Calculate Area-Weighted Average (R)SHGC for Vertical Fenestration and Glazed Doors[1]
03	☐	Calculate Area-Weighted Average VT for Vertical Fenestration and Glazed Doors[1]

Vertical Fenestration And Glazed Doors- U-factor, Solar Heat Gain Coefficient (RSHGC/ SHGC), Visible Transmittance (VT)

04	05	06	07	08	09	10	11	12	13
Tag/Plan Detail ID	Fenestration Type	Occupancy & Status	(R)SHGC Compliance Method	VT Compliance Method	Calculation Method for Performance Values per Design[2]	Product Performance Unit	Required Product Performance	Product Performance per Design	Area ft²

[1] *FOOTNOTES: If any individual fenestration product is non-compliant, products may show compliance using an area-weighted calculation. Chromogenic glazing is not included in area-weighted calculations. Area-weighted calculation shown in separate area-weighted table below.*

[2] *The NA6 Default Calculation can only be used for buildings with less than 200ft² of site built glazing. If the project has greater than 200ft², the only options for determining fenestration values are NFRC Certification or the Default Tables in 110.6.*

[3] *Overhangs must extend past the left and right window the same distance as the depth of the overhang or greater to show an affect on the RSHGC. If an overhang does not meet this requirement, the affect of the overhang will be ignored.*

[4] *Projecting includes casement and awning windows.*

L. DAYLIGHT IN LARGE ENCLOSED SPACES

This section does not apply to this project.

M. DECLARATION OF REQUIRED CERTIFICATES OF INSTALLATION

Selections have been made based on information provided in this document. If any selection have been changed by the permit applicant, an explanation should be included in Table E Additional Remarks. These documents must be provided to the building inspector during construction and can be found online at https://www.energy.ca.gov/title24/2019standards/2019_compliance_documents/Nonresidential_Documents/NRCI/

Form/Title	Field Inspector	
	Pass	Fail
NRCI-ENV-01-E - Must be submitted for all buildings	☐	☐

STATE OF CALIFORNIA

Envelope Component Approach

NRCC-ENV-E

CALIFORNIA ENERGY COMMISSION

CERTIFICATE OF COMPLIANCE			NRCC-ENV-E
Project Name:	PARC Staff Building	Report Page:	(Page 7 of 8)
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N. DECLARATION OF REQUIRED CERTIFICATES OF ACCEPTANCE

Selections have been made based on information provided in previous tables of this document. If any selection needs to be changed, form user must provide an explanation in Table E Additional Remarks. These documents must be provided to the building inspector during construction and can be found online at https://www.energy.ca.gov/title24/2019standards/2019_compliance_documents/Nonresidential_Documents/NRCA/. Individuals who perform the field testing and verification work, and provide the information required for completion of the fenestration Certificate of Acceptance documentation are not required to be licensed professionals. However, the person who signs the Certificate of Acceptance document to certify compliance with the acceptance requirements shall be licensed as specified in Standards Section 10-103(a)4 and NA7.3.1

Form/Title	Systems/Spaces To Be Field Verified	Field Inspector	
		Pass	Fail
NRCA-ENV-02-F must be submitted for all new, added or altered fenestration.		☐	☐

STATE OF CALIFORNIA

Envelope Component Approach

NRCC-ENV-E

CALIFORNIA ENERGY COMMISSION

CERTIFICATE OF COMPLIANCE			NRCC-ENV-E
Project Name:	PARC Staff Building	Report Page:	(Page 8 of 8)
Project Address:		Date Prepared:	2022-06-27T17:05:34-04:00

DOCUMENTATION AUTHOR'S DECLARATION STATEMENT

I certify that this Certificate of Compliance documentation is accurate and complete.

Documentation Author Name: Ken Kulonis	Documentation Author Signature:
Company:	Signature Date:
Address:	CEA/ HERS Certification Identification (if applicable):
City/State/Zip:	Phone:

RESPONSIBLE PERSON'S DECLARATION STATEMENT

I certify the following under penalty of perjury, under the laws of the State of California:

1. The information provided on this Certificate of Compliance is true and correct.
2. I am eligible under Division 3 of the Business and Professions Code to accept responsibility for the building design or system design identified on this Certificate of Compliance (responsible designer)
3. The energy features and performance specifications, materials, components, and manufactured devices for the building design or system design identified on this Certificate of Compliance conform to the requirements of Title 24, Part 1 and Part 6 of the California Code of Regulations.
4. The building design features or system design features identified on this Certificate of Compliance are consistent with the information provided on other applicable compliance documents, worksheets, calculations, plans and specifications submitted to the enforcement agency for approval with this building permit application.
5. I will ensure that a completed signed copy of this Certificate of Compliance shall be made available with the building permit(s) issued for the building, and made available to the enforcement agency for all applicable inspections. I understand that a completed signed copy of this Certificate of Compliance is required to be included with the documentation the builder provides to the building owner at occupancy.

Responsible Designer Name:	Responsible Designer Signature:
Company:	Date Signed:
Address:	License:
City/State/Zip:	Phone:

CITY OF LOS ANGELES — DEPARTMENT OF PUBLIC WORKS — BUREAU OF ENGINEERING

PLANS PREPARED BY: TETRA TECH, INC. 350 SOUTH GRAND AVENUE, SUITE 3310, LOS ANGELES, CALIFORNIA 90071, Phone: (213) 279-3283

VERT. CONTROL: BM 12-04070, 1929 (NGVD29) - 1985 ADJUSTMENT
HORIZ. CONTROL: GPS; PID AE 1704, EPOCH 1991.35

SHEET TITLE: TITLE 24 FORMS-STAFF BLDG.
PROJECT: SIXTH STREET PARK, ARTS AND RIVER CONNECTIVITY IMPROVEMENTS (PARC)
ADDRESS: SIXTH STREET OVER THE LOS ANGELES RIVER

GARY LEE MOORE, P.E., ENV SP — CITY ENGINEER
DESIGN GROUP — LIC. NO. M27379
ENGINEER: KEN KULONIS
DESIGNED BY: KEN KULONIS
DRAWN BY: KEN KULONIS
CHECKED BY: JASON EUBSSEL
APPROVED BY:

THIS PLAN WAS ELECTRONICALLY SIGNED AND STAMPED

WORK ORDER NO. E700235D
FILE NO. --
DRAWING NO. M-801
SHEET 270 OF 295 SHEETS

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Sheet Version 3.0

Envelope Mandatory Measures:

110.6(a)1 MANUFACTURED FENESTRATION PRODUCT AND EXTERIOR DOOR AIR LEAKAGE
MANUFACTURED FENESTRATION PRODUCTS AND EXTERIOR DOORS SHALL HAVE AIR INFILTRATION RATES CERTIFIED BY THE MANUFACTURER NOT EXCEEDING 0.3 CFM/FT² OF WINDOW AREA, 0.3 CFM/FT² OF DOOR AREA FOR NONRESIDENTIAL SINGLE DOORS (SWINGING AND SLIDING), AND 1.0 CFM/FT² FOR NONRESIDENTIAL DOUBLE DOORS (SWINGING), WHEN TESTED ACCORDING TO NFRC-400 OR ASTM E283 AT A PRESSURE DIFFERENTIAL OF 75 PASCALS.

110.6(a)2-4 MANUFACTURED FENESTRATION PRODUCT AND EXTERIOR DOOR RATING
ALL MANUFACTURED FENESTRATION PRODUCTS AND EXTERIOR DOORS SHALL BE RATED FOR U-FACTOR ACCORDING TO NFRC PROCEDURES OR USE THE DEFAULT FENESTRATION VALUES IN TABLE 110.6-A AND DOOR VALUES IN JA4.5.

ALL MANUFACTURED FENESTRATION PRODUCTS AND EXTERIOR DOORS SHALL BE RATED FOR SHGC ACCORDING TO NFRC PROCEDURES OR USE THE DEFAULT VALUES IN TABLE 110.6-B.

ALL MANUFACTURED FENESTRATION PRODUCTS SHALL BE RATED FOR VT ACCORDING TO NFRC PROCEDURES.

110.7 EXTERIOR JOINTS
ALL EXTERIOR JOINTS, PENETRATIONS, AND OPENINGS IN THE BUILDING ENVELOPE THAT ARE POTENTIAL SOURCES OF AIR LEAKAGE SHALL BE CAULKED, GASKETED, WEATHER-STRIPPED, OR OTHERWISE SEALED.

110.8(a) INSULATION CERTIFICATION
INSTALLED INSULATION SHALL BE CERTIFIED BY THE DEPARTMENT OF CONSUMER AFFAIRS PER TITLE 24, PART 12, CHAPTERS 12-13, ARTICLE 3 "STANDARDS FOR INSULATING MATERIAL."

110.8(b) UREA FORMALDEHYDE INSULATION
UREA FORMALDEHYDE INSULATION SHALL NOT BE INSTALLED UNLESS IN EXTERIOR SIDE WALLS WITH A FOUR-MIL-THICK PLASTIC SHEATHING VAPOR RETARDER INSTALLED BETWEEN THE UREA FORMALDEHYDE FOAM INSULATION AND THE INTERIOR SPACE.

110.8(c) INSULATING MATERIAL
ALL INSULATING MATERIALS SHALL BE INSTALLED IN COMPLIANCE WITH THE FLAME SPREAD RATING AND SMOKE DENSITY REQUIREMENTS OF THE CALIFORNIA BUILDING CODE

110.8(i) RATED ROOFING PRODUCTS
ALL ROOFING PRODUCTS SPECIFIED TO MEET AGED SOLAR REFLECTANCE/THERMAL EMITTANCE REQUIREMENTS SHALL BE CERTIFIED AND LABELED BY THE COOL ROOF RATING COUNCIL (CRRC) PER 10-113, OR USE DEFAULT VALUES IN 110.8(i)
ASPHALT SHINGLES: 0.08/0.75
ALL OTHERS: 0.10/0.75
LIQUID APPLIED ROOF COATING FOR LOW SLOPE ROOF SHALL MEET COVERAGE, THICKNESS, AND PERFORMANCE VALUES PER 110.8-C

110.8(j) RADIANT BARRIER:
RADIANT BARRIERS SHALL HAVE EMITTANCE <= .05, TESTED ACCCORDING WITH ASTM C1371 OR ASTM E408, CERTIFIED BY TITLE 24 PART 12

Envelope Mandatory Measures:

120.7(a) ROOF/CEILING INSULATION:
WEIGHTED AVERAGE U-FACTOR OF ROOF ASSEMBLY SHALL BE:
<=0.098 FOR METAL BUILDING
<=0.075 FOR WOOD FRAMED AND OTHER TYPES

INSULATION PLACEMENT SHALL BE PER §120.7(a)3 REQUIREMENTS:
120.7(a)3A SHALL BE IN DIRECT CONTACT WITH ROOF OR CEILING SEALED TO LIMIT INFILTRATION AND EXFILTRATION.
120.7(a)3B WHEN INSULTATION IS INSTALLED AT ROOF, FIXED VENTS SHALL NOT BE INSTALLED, UNLESS IT IS CONSIDERED ATTIC SPACE.
120.7(a)3C SHALL NOT BE INSTALLED ON SUSPENDED CEILINGS UNLESS ITS 2000 FT2 OR LESS AND THERE IS MORE THAN 12 FT BETWEEN ROOF AND CEILING.
NOTE: ASSEMBLY OPTIONS CAN BE FOUND IN REFERENCE JOINT APPENDIX JA4

120.7(b)1-6 WALL INSULATION :
OPAQUE PORTIONS OF WALLS SEPARATING CONDITIONED SPACE FROM UNCONDITIONED SPACES OR AMBIENT AIIR SHALL MEET THE FOLLOWING:
METAL BUILDING: WEIGHTED AVERAGE U-FACTOR OF WALL ASSEMBLY <=0.113
METAL FRAMED: WEIGHTED AVERAGE U-FACTOR OF WALL ASSEMBLY <=0.151
LIGHT MASS WALLS: U-FACTOR FOR 6" OR GREATER HOLLOW CORE CONCRETE MASONRY UNIT <=0.440
HEAVY MASS WALLS: U-FACTOR FOR 8" OR GREATER HOLLOW CORE CONCRETE MASONRY UNIT <=0.690
WOOD FRAMED AND OTHER TYPES: WEIGHTED AVERAGE U-FACTOR OF WALL ASSEMBLY <=0.110
SPANDREL PANELS AND CURTAIN WALLS: WEIGHTED AVERAGE U-FACTOR OF WALL ASSEMBLY <=0.280
NOTE: ASSEMBLY OPTIONS CAN BE FOUND IN REFERENCE JOINT APPENDIX JA4

NOTE: CLOSER STUD SPACING AND/OR LOWER BATT R-VALUE AND/OR SMALLER STUDS REQUIRES CONTINUOUS INSULATION SHEATHING.

NOTE: INSULATION IS NOT REQUIRED FOR NON-FRAMED DEMISING WALLS.

NOTE: INSULATION IS NOT REQUIRED FOR NON-FRAMED DEMISING WALLS.

NOTE: ASSEMBLY OPTIONS CAN BE FOUND IN REFERENCE JOINT APPENDIX JA4

PLANS PREPARED BY:
TETRA TECH, INC.
350 SOUTH GRAND AVENUE, SUITE 3310
LOS ANGELES, CALIFORNIA 90071
Phone: (213) 279-3283

CITY OF LOS ANGELES · DEPARTMENT OF PUBLIC WORKS · BUREAU OF ENGINEERING

VERT. CONTROL: BM 12-04070, 1929 (NGVD29) - 1985 ADJUSTMENT
HORIZ. CONTROL: GPS; PID AE 1704, EPOCH 1991.35
SHEET TITLE: TITLE 24 FORMS-STAFF BLDG.-MM
PROJECT: SIXTH STREET PARK, ARTS AND RIVER CONNECTIVITY IMPROVEMENTS (PARC)
ADDRESS: SIXTH STREET OVER THE LOS ANGELES RIVER

GARY LEE MOORE, P.E., ENV SP — CITY ENGINEER
DESIGN GROUP
ENGINEER: KEN KULONIS
DESIGNED BY: KEN KULONIS
DRAWN BY: KEN KULONIS
CHECKED BY: JASON EUSSEL
APPROVED BY:
LIC. NO. M27379
DATE:

THIS PLAN WAS ELECTRONICALLY SIGNED AND STAMPED

NO. | REVISIONS: | DATE | BY:

INDEX NO.
BUILDING NO.

WORK ORDER NO. E700235D
FILE NO. --
DRAWING NO. M-802
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STATE OF CALIFORNIA

Mechanical Systems

NRCC-MCH-E

CALIFORNIA ENERGY COMMISSION

CERTIFICATE OF COMPLIANCE			NRCC-MCH-E
This document is used to demonstrate compliance for mechanical systems that are within the scope of the permit application and are demonstrating compliance using the prescriptive path outlined in §140.4, or §141.0(b)2 for alterations.			
Project Name:	PARC Staff Building	**Report Page:**	(Page 1 of 8)
Project Address:		**Date Prepared:**	2022-06-27T17:38:57-04:00

A. GENERAL INFORMATION

01	Project Location (city)	Los Angeles	04	Total Conditioned Floor Area	1650
02	Climate Zone	9	05	Total Unconditioned Floor Area	200
03	Occupancy Types Within Project:		06	# of Stories (Habitable Above Grade)	1
☒ Office (B)		☐ Retail (M)	☐ Non-refrigerated Warehouse (S)		
☐ Hotel/ Motel Guest Rooms (R-1)		☐ School (E)	☐ Healthcare Facility (I)		
☐ High-Rise Residential (R-2/R-3)		☐ Relocatable Class Bldg (E)	☐ Other (write in)		

B. PROJECT SCOPE

This table includes mechanical systems or components that are within the scope of the permit application and are demonstrating compliance using the prescriptive path outlined in §140.4, or §141.0(b)2 for alterations.

01		02		03	
Air System(s)		Wet System Components		Dry System Components	
☒	Heating Air System	☐	Water Economizer	☐	Air Economizer
☒	Cooling Air System	☐	Pumps	☐	Electric Resistance Heat
Mechanical Controls		☐	System Piping	☐	Fan Systems
☐	Mechanical Controls (existing to remain, altered or new)	☐	Cooling Towers	☐	Ductwork (existing to remain, altered or new)
		☐	Chillers	☒	Ventilation
		☐	Boilers	☐	Zonal Systems/ Terminal Boxes

Registration Number: | Registration Date/Time: | Registration Provider: Energy Code Ace

CA Building Energy Efficiency Standards - 2019 Nonresidential Compliance | Report Version: 2019.1.003 Schema Version: rev 20200601 | Report Generated: 2022-06-27 14:39:13

STATE OF CALIFORNIA

Mechanical Systems

NRCC-MCH-E

CALIFORNIA ENERGY COMMISSION

CERTIFICATE OF COMPLIANCE			NRCC-MCH-E
Project Name:	PARC Staff Building	**Report Page:**	(Page 3 of 8)
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F. HVAC SYSTEM SUMMARY (DRY & WET SYSTEMS)

This table is used to demonstrate compliance for mechanical equipment with mandatory requirements found in §110.1 and §110.2(a) and prescriptive requirements found in §140.4(a), §140.4(b) and §140.4(k) or §141.0(b)2 for alterations.

Dry System Equipment Sizing (includes air conditioners, condensers, heat pumps, VRF, furnaces and unit heaters)

01	02	03	04	05	06	07	08	09	10	11
				Equipment Sizing per Mechanical Schedule (kBtu/h) §140.4 (a&b)						
				Heating Output[2,3]			Cooling Output[2,3]		Load Calculations[3,4]	
Name or Item Tag	Equipment Category per Tables 110.2	Equipment Type per Tables 110.2 / Title 20	Smallest Size Available[1] §140.4(a)	Per Design (kBtu/h)	Rated (kBtu/h)	Supp. Heating Output (kBtu/h)	Sensible Per Design (kBtu/h)	Rated (kBtu/h)	Total Heating Load (kBtu/h)	Total Sensible Cooling Load (kBtu/h)
HP-1, HP-2tHANKS	Unitary Heat Pumps	Air-cooled, pkg (1phase)	Yes	39	42.3	44.3	30	46.5	39	46.5

[1]*FOOTNOTES: Equipment shall be the smallest size, within the available options of the desired equipment line, necessary to meet the design heating and cooling loads of the building per §140.4(a). Healthcare facilities are excepted.*

[2]*It is common practice to show rated output capacity on the equipment schedule. Sensible cooling output comes from specification sheet tables.*

[3]*If equipment is heating only, leave cooling output and load blank. If equipment is cooling only, leave heating output and load blank.*

[4]*Authority Having Jurisdiction may ask for load calculations used for compliance per §140.4(b).*

Dry System Equipment Efficiency (other than Package Terminal Air Conditioners (PTAC) and Package Terminal Heat Pumps (PTHP))

01	02	03	04	05	06	07	08	09
		Heating Mode				Cooling Mode		
Name or Item Tag	Size Category (Btu/h)	Rating Condition (°F)	Efficiency Unit	Minimum Efficiency Required per Tables 110.2 / Title 20	Design Efficiency	Efficiency Unit	Minimum Efficiency Required per Tables 110.2 / Title 20	Design Efficiency
HP-1, HP-2tHANKS	<65,000		HSPF	8	8	SEER	14	14.5

Registration Number: | Registration Date/Time: | Registration Provider: Energy Code Ace

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STATE OF CALIFORNIA

Mechanical Systems

NRCC-MCH-E

CALIFORNIA ENERGY COMMISSION

CERTIFICATE OF COMPLIANCE			NRCC-MCH-E
Project Name:	PARC Staff Building	**Report Page:**	(Page 2 of 8)
Project Address:		**Date Prepared:**	2022-06-27T17:38:57-04:00

C. COMPLIANCE RESULTS

Table C will indicate if the project data input into the compliance document is compliant with mechanical requirements. This table is not editable by the user. If this table says "DOES NOT COMPLY" or "COMPLIES with Exceptional Conditions" refer to Table D., or the table indicated as not compliant for guidance.

01		02		03		04		05		06		07		08	09
System Summary §110.1, §110.2, §140.4	AND	Pumps §140.4(k)	AND	Fans/ Economizers §140.4(c), §140.4(e)	AND	System Controls §110.2, §120.2, §140.4(f)	AND	Ventilation §120.1	AND	Terminal Box Controls §140.4(d)	AND	Distribution §120.3, §140.4(l)	AND	Cooling Towers §110.2(e)2	Compliance Results
(See Table F)		(See Table G)		(See Table H)		(See Table I)		(See Table J)		(See Table K)		(See Table L)		(See Table M)	
Yes	AND		AND		AND	Yes	AND	Yes	AND		AND		AND		COMPLIES with Exceptional Conditions
Mandatory Measures Compliance (See Table Q for Details)										COMPLIES					

D. EXCEPTIONAL CONDITIONS

This table is auto-filled with uneditable comments because of selections made or data entered in tables throughout the form.

Transfer air is being used in at least one zone to meet minimum ventilation requirements. See Table J for details. Transfer air must be designed per §120.1(g) for air classification and recirculation limitations and be documented within construction documents.

E. ADDITIONAL REMARKS

This table includes remarks made by the permit applicant to the Authority Having Jurisdiction.

Registration Number: | Registration Date/Time: | Registration Provider: Energy Code Ace

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STATE OF CALIFORNIA

Mechanical Systems

NRCC-MCH-E

CALIFORNIA ENERGY COMMISSION

CERTIFICATE OF COMPLIANCE			NRCC-MCH-E
Project Name:	PARC Staff Building	**Report Page:**	(Page 4 of 8)
Project Address:		**Date Prepared:**	2022-06-27T17:38:57-04:00

G. PUMPS

This section does not apply to this project.

H. FAN SYSTEMS & AIR ECONOMIZERS

This section does not apply to this project.

I. SYSTEM CONTROLS

This table is used to demonstrate compliance with mandatory controls in §110.2 and §120.2 and prescriptive controls in §140.4(f) and (n) or requirements in §141.0(b)2E for altered space conditioning systems.

01	02	03	04	05	06	07	08	09
System Name	System Zoning	Conditioned Floor Area Being Served (ft²)	Thermostats §110.2(b) & (c)[1], §120.2(a)or §141.0(b)2E	Shut-Off Controls §120.2(e)	Isolation Zone Controls §120.2(g)	Demand Response §110.12 and §120.2(b)	Supply Air Temp. Reset §140.4(f)	Window Interlocks per §140.4(n)
HP-1 & HP-2	Single zone	<= 25,000 ft²	Setback	Auto Timer Switch	4 Hour Timer	NA: PTAC, PTHP, Rm AC, HP	NA: Single Zone	NA: No operable windows

[1]*FOOTNOTES: Gravity gas wall heaters, gravity floor heaters, gravity room heaters, non-central electric heaters, fireplaces or decorative gas appliances, wood stoves are not required to have setback thermostats.*

*Notes: Controls with a * require a note in the space below explaining how compliance is achieved. EX: system 1: SA Temp Reset: Exempt because zones compliant with §140.4(d) ; EXCEPTION 1 to §140.4(f)

J. VENTILATION AND INDOOR AIR QUALITY

This table is used to demonstrate compliance with mandatory ventilation requirements in §120.1 and §120.2(e)3B for all nonresidential, high-rise residential and hotel/motel occupancies. For alterations, only ventioltion systems being altered within the scope of the permit application need to be documented in this table. In lieu of this table, the required outdoor ventilation rates and airflows may be shown on the plans or the calculations can be presented in a spreadsheet.

01	☐	Check the box if the project is showing ventilation calculations on the plans, or attaching the calculations instead of completing this table.
02	☒	Check this box if the project included Nonresidential or Hotel/Motel spaces
	☐	Check this box if the project included new or altered high-rise residential dwelling units.
03	☐	Check the box if the project is using natural ventilation in any nonresidential or hotel/motel spaces to meet required ventilation rates per §120.1(c)2.
Nonresidential and Hotel/ Motel Ventilation Systems		

Registration Number: | Registration Date/Time: | Registration Provider: Energy Code Ace

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THE CITY OF LOS ANGELES OR ITS OFFICERS OR AGENTS SHALL NOT BE RESPONSIBLE FOR THE ACCURACY OR COMPLETENESS OF ELECTRONIC COPIES OF THIS PLAN SHEET.

PLANS PREPARED BY: TETRA TECH, INC. 350 SOUTH GRAND AVENUE, SUITE 3310 LOS ANGELES, CALIFORNIA 90071 Phone: (213) 279-3283

CITY OF LOS ANGELES — DEPARTMENT OF PUBLIC WORKS — BUREAU OF ENGINEERING

VERT. CONTROL: BM 12-04070, 1929 (NGVD29) - 1985 ADJUSTMENT
HORIZ. CONTROL: GPS; PID AE 1704, EPOCH 1991.35

GARY LEE MOORE, P.E., ENV SP — CITY ENGINEER — DATE:

DESIGN GROUP — LIC. NO. M27379

ENGINEER: KEN KULONIS
DESIGNED BY: KEN KULONIS
DRAWN BY: KEN KULONIS
CHECKED BY: JASON EUSSEL
APPROVED BY:

THIS PLAN WAS ELECTRONICALLY SIGNED AND STAMPED

REGISTERED PROFESSIONAL ENGINEER KENNETH P. KULONIS No. 27379 Exp. 6-30-2023 MECHANICAL STATE OF CALIFORNIA

NO. | REVISIONS | DATE | BY

INDEX NO. | BUILDING NO.

SHEET TITLE: TITLE 24 FORMS-STAFF BLDG.

PROJECT: SIXTH STREET PARK, ARTS AND RIVER CONNECTIVITY IMPROVEMENTS (PARC)

ADDRESS: SIXTH STREET OVER THE LOS ANGELES RIVER

WORK ORDER NO. E700235D

FILE NO. --

DRAWING NO. M-803

SHEET 272 OF 295 SHEETS

BID SET - NOT FOR CONSTRUCTION

REVISION DATES (DESIGN STAGE ONLY)

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STATE OF CALIFORNIA
Mechanical Systems
NRCC-MCH-E

CALIFORNIA ENERGY COMMISSION

CERTIFICATE OF COMPLIANCE		NRCC-MCH-E
Project Name: PARC Staff Building	Report Page:	(Page 5 of 8)
Project Address:	Date Prepared:	2022-06-27T17:38:57-04:00

J. VENTILATION AND INDOOR AIR QUALITY

04		05		06		07	
System Name	HP-1 & HP-2	System Design OA CFM Airflow[1]	405	System Design Transfer Air CFM	1260	Air Filtration per §120.1(c) and §141.0(b)2 [2] / Provided per §120.1(c) (NR and Hotel/Motel))	No

08	09	10	11	12	13	14	15	16	
	Mechanical Ventilation Required per §120.1(c)3 [3]					Exh. Vent per §120.1(c)4			
Space Name or Item Tag	Occupancy Type[4]	Conditioned Floor Area (ft²)	# of Shower heads/ toilets	# of people[5]	Required Min OA CFM	Required Min CFM	Provided per Design CFM	DCV or Sensor Controls per §120.1(d)3, §120.1(d)5, and §120.1(e)3 [6]	
Staff	Office space	1450		5	217.5			DCV	Provided per §120.1(d)4
								Occ Sensor	Provided per §120.1(d)5
17	Total System Required Min OA CFM				217.5	18	Ventilation for this System Complies?		Yes

[1] FOOTNOTES: System CFM should include both mechanical and natural ventilation for the zone/system

[2] Air filtration requirements apply to the following three system types per §120.1(c)1A : space conditioning systems utilizing ducts to supply air to occupiable space; supply-only ventilation systems providing outside air to occupiable space; supply side of balanced ventilation systems including heat recovery and energy recovery ventilation systems providing outside air to occupiable space.

[3] Uniform Mechanical Code may have more stringent ventilation requirements; the most stringent code requirement takes precedence.

[4] See Standards Tables 120.1-A and 120.1-B.

[5] For lecture halls with fixed seating, the expected number of occupants shall be shall be determined in accordance with the California Building Code.

[6] §120.2(e)3 requires systems serving rooms that are required by §130.1(c) to have lighting occupancy sensing controls to also have occupancy sensing zone controls for ventilation. Examples of spaces which require lighting occupancy sensors include offices 250ft² or smaller, multipurpose rooms less than 1,000 ft², classrooms, conference rooms, restrooms, aisles and open areas in warehouses, library book stack aisles, corridors, stairwells, parking garages, and loading and unloading zones, unless excepted by §130.1(c).

K. TERMINAL BOX CONTROLS
This section does not apply to this project.

Registration Number: | Registration Date/Time: | Registration Provider: Energy Code Ace

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STATE OF CALIFORNIA
Mechanical Systems
NRCC-MCH-E

CALIFORNIA ENERGY COMMISSION

CERTIFICATE OF COMPLIANCE		NRCC-MCH-E
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Project Address:	Date Prepared:	2022-06-27T17:38:57-04:00

L. DISTRIBUTION (DUCTWORK and PIPING)
This section does not apply to this project.

M. COOLING TOWERS
This section does not apply to this project.

N. DECLARATION OF REQUIRED CERTIFICATES OF INSTALLATION
Selections have been made based on information provided in previous tables of this document. If any selection needs to be changed, please explain why in Table E Additional Remarks. These documents must be provided to the building inspector during construction and can be found online at https://www.energy.ca.gov/title24/2019standards/2019_compliance_documents/Nonresidential_Documents/NRCI/

Form/Title	Field Inspector Pass	Field Inspector Fail
NRCI-MCH-01-E - Must be submitted for all buildings	☐	☐

O. DECLARATION OF REQUIRED CERTIFICATES OF ACCEPTANCE
Selections have been made based on information provided in previous tables of this document. If any selection needs to be changed, please explain why in Table E Additional Remarks. These documents must be provided to the building inspector during construction and can be found online at https://www.energy.ca.gov/title24/2019standards/2019_compliance_documents/Nonresidential_Documents/NRCA/

Form/Title	Systems/Spaces To Be Field Verified	Field Inspector Pass	Field Inspector Fail
NRCA-MCH-02-A - Outdoor Air must be submitted for all newly installed HVAC units. Note: MCH-02-A can be performed in conjunction with MCH-07-A Supply Fan VFD Acceptance (if applicable) since testing activities overlap.	HP-1 & HP-2	☐	☐
NRCA-MCH-06-A Demand Control Ventilation Systems must be submitted for all systems required to employ demand controlled ventilation (refer to §120.1(c)3) can vary outside ventilation flow rates based on maintaining interior carbon dioxide (CO_2) concentration setpoints.	Staff	☐	☐
NRCA-MCH-19-A Occupancy Sensor Controls	HP-1 & HP-2	☐	☐

P. DECLARATION OF REQUIRED CERTIFICATES OF VERIFICATION
There are no NRCV forms required for this project.

Registration Number: | Registration Date/Time: | Registration Provider: Energy Code Ace

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STATE OF CALIFORNIA
Mechanical Systems
NRCC-MCH-E

CALIFORNIA ENERGY COMMISSION

CERTIFICATE OF COMPLIANCE		NRCC-MCH-E
Project Name: PARC Staff Building	Report Page:	(Page 7 of 8)
Project Address:	Date Prepared:	2022-06-27T17:38:57-04:00

Q. MANDATORY MEASURES DOCUMENTATION LOCATION
This table is used to indicate where mandatory measures are documented in the plan set or construction documentation.

01		02
Compliance with Mandatory Measures documented through MCH Mandatory Measures Note Block	No	

03 Mandatory Measure	04 Plan sheet or construction document location
Heating Equipment Efficiency per §110.1	M-801
Cooling Equipment Efficiency per §110.1	M-801
Furnace Standby Loss Control per §110.2(d)	NA
Heat Pump with Supplemental electric Resistance Heater Controls per §110.2(b)	M-601
Kitchen range hoods shall be rated for sound in accordance with Section 7.2 of ASHRAE 62.2	NA

Registration Number: | Registration Date/Time: | Registration Provider: Energy Code Ace

Report Generated: 2022-06-27 14:39:13

STATE OF CALIFORNIA
Mechanical Systems
NRCC-MCH-E

CALIFORNIA ENERGY COMMISSION

CERTIFICATE OF COMPLIANCE		NRCC-MCH-E
Project Name: PARC Staff Building	Report Page:	(Page 8 of 8)
Project Address:	Date Prepared:	2022-06-27T17:38:57-04:00

DOCUMENTATION AUTHOR'S DECLARATION STATEMENT
I certify that this Certificate of Compliance documentation is accurate and complete.

Documentation Author Name: Ken Kulonis	Documentation Author Signature:
Company:	Signature Date:
Address:	CEA/ HERS Certification Identification (if applicable):
City/State/Zip:	Phone:

RESPONSIBLE PERSON'S DECLARATION STATEMENT
I certify the following under penalty of perjury, under the laws of the State of California:

1. The information provided on this Certificate of Compliance is true and correct.
2. I am eligible under Division 3 of the Business and Professions Code to accept responsibility for the building design or system design identified on this Certificate of Compliance (responsible designer)
3. The energy features and performance specifications, materials, components, and manufactured devices for the building design or system design identified on this Certificate of Compliance conform to the requirements of Title 24, Part 1 and Part 6 of the California Code of Regulations.
4. The building design features or system design features identified on this Certificate of Compliance are consistent with the information provided on other applicable compliance documents, worksheets, calculations, plans and specifications submitted to the enforcement agency for approval with this building permit application.
5. I will ensure that a completed signed copy of this Certificate of Compliance shall be made available with the building permit(s) issued for the building, and made available to the enforcement agency for all applicable inspections. I understand that a completed signed copy of this Certificate of Compliance is required to be included with the documentation the builder provides to the building owner at occupancy.

Responsible Designer Name:	Responsible Designer Signature:
Company:	Date Signed:
Address:	License:
City/State/Zip:	Phone:

Registration Number: | Registration Date/Time: | Registration Provider: Energy Code Ace

CA Building Energy Efficiency Standards - 2019 Nonresidential Compliance | Report Version: 2019.1.003 Schema Version: rev 20200601 | Report Generated: 2022-06-27 14:39:13

PLANS PREPARED BY: TETRA TECH, INC.
350 SOUTH GRAND AVENUE, SUITE 3310
LOS ANGELES, CALIFORNIA 90071
Phone: (213) 279-3283

CITY OF LOS ANGELES — DEPARTMENT OF PUBLIC WORKS — BUREAU OF ENGINEERING

VERT. CONTROL: BM 12-04070, 1929 (NGVD29) - 1985 ADJUSTMENT
HORIZ. CONTROL: GPS, PID AE 1704, EPOCH 1991.35

SHEET TITLE: TITLE 24 FORMS-STAFF BLDG.
PROJECT: SIXTH STREET PARK, ARTS AND RIVER CONNECTIVITY IMPROVEMENTS (PARC)
ADDRESS: SIXTH STREET OVER THE LOS ANGELES RIVER

GARY LEE MOORE, P.E., ENV SP — CITY ENGINEER
DESIGN GROUP — LIC. NO. M27379 — DATE:
ENGINEER: KEN KULONIS
DESIGNED BY: KEN KULONIS
DRAWN BY: KEN KULONIS
CHECKED BY: JASON EIBSSEL
APPROVED BY:

THIS PLAN WAS ELECTRONICALLY SIGNED AND STAMPED

NO. REVISIONS: DATE BY:
INDEX NO.
BUILDING NO.

WORK ORDER NO. E700235D
FILE NO. --
DRAWING NO. M-804
SHEET 273 OF 295 SHEETS

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REVISION DATES (DESIGN STAGE ONLY)

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BID SET - NOT FOR CONSTRUCTION

STATE OF CALIFORNIA
Domestic Water Heating System
NRCC-PLB-E

CALIFORNIA ENERGY COMMISSION

CERTIFICATE OF COMPLIANCE			NRCC-PLB-E
This document is used to demonstrate compliance for nonresidential occupancies with requirements in §110.1, §110.3, §120.3, and §140.5, and with requirements in §141.0 for additions and alterations, for domestic water heating scopes using the prescriptive path. For high-rise residential and hotel/motel occupancies compliance is demonstrated with requirements in §110.1, §110.3, §120.3, §150.0 and §150.1(c)8, and with requirements §150.2 for additions.			
Project Name:	PARC Staff Building	Report Page:	(Page 1 of 6)
Project Address:		Date Prepared:	2022-06-15T13:50:38-04:00

A. GENERAL INFORMATION

01	Project Location (city)	Los Angeles	02	Climate Zone	9
03	Occupancy Types Within Project (select all that apply):				
	☒ Nonresidential	☐ High-Rise Residential	☐ Hotel/Motel		
	☐ State Building	☐ Healthcare Facility	☐ Other (Write In)		

B. PROJECT SCOPE

This table includes domestic water heating systems that are within the scope of the permit application and are demonstrating compliance using the prescriptive paths outlined in §140.5, §150.1(c)8, and §141.0(a), or §141.0(b)2N for additions or alterations. Solar water heating systems are documented on the NRCC-SRA compliance document. Combined hydronic water heating systems are documented on the NRCC-MCH compliance document.

01	02	03		
My project consists of (check all that apply):	System Type[1,2]	System Components		
☒ New system (DHW system being installed for the first time in newly constructed building)	Individual System (serving nonresidential spaces)	☒ Equipment	☒ Distribution	☒ Controls
☐ System Alteration (equipment, distribution or controls)		☐ Equipment	☐ Distribution	☐ Controls

[1]*FOOTNOTES: Point of use water heaters, or other non-central systems used to serve nonresidential spaces, are considered individual systems.*

[2] *Dwelling units refers to hotel/motel guest rooms and units in a high-rise residential occupancy.*

Registration Number: | Registration Date/Time: | Registration Provider: Energy Code Ace

CA Building Energy Efficiency Standards - 2019 Nonresidential Compliance | Report Version: 2019.1.003 | Report Generated: 2022-06-15 10:50:44

STATE OF CALIFORNIA
Domestic Water Heating System
NRCC-PLB-E

CALIFORNIA ENERGY COMMISSION

CERTIFICATE OF COMPLIANCE			NRCC-PLB-E
Project Name:	PARC Staff Building	Report Page:	(Page 2 of 6)
Project Address:		Date Prepared:	2022-06-15T13:50:38-04:00

C. COMPLIANCE RESULTS

Table C will indicate if the project data input into the compliance document is compliant with water heating requirements. If this table says "DOES NOT COMPLY" or "COMPLIES with Exceptional Conditions" refer to Table D. or the table indicated as not compliant for guidance.

01	02	03	04
Domestic Hot Water Equipment	Distribution Systems	Controls	Compliance Results
Table F	Table G	Table H	
Yes	Yes	Yes	COMPLIES

D. EXCEPTIONAL CONDITIONS

This table is auto-filled with uneditable comments because of selections made or data entered in tables throughout the form.

E. ADDITIONAL REMARKS

This table is includes remarks made by the permit applicant to the Authority Having Jurisdiction.

Registration Number: | Registration Date/Time: | Registration Provider: Energy Code Ace

CA Building Energy Efficiency Standards - 2019 Nonresidential Compliance | Report Version: 2019.1.003 Schema Version: rev 20200601 | Report Generated: 2022-06-15 10:50:44

STATE OF CALIFORNIA
Domestic Water Heating System
NRCC-PLB-E

CALIFORNIA ENERGY COMMISSION

CERTIFICATE OF COMPLIANCE			NRCC-PLB-E
Project Name:	PARC Staff Building	Report Page:	(Page 3 of 6)
Project Address:		Date Prepared:	2022-06-15T13:50:38-04:00

F. DOMESTIC HOT WATER EQUIPMENT

This table is used to demonstrate compliance with mandatory equipment requirements in §110.1 and §110.3. For high-rise residential and hotel/motel occupancies, compliance with prescriptive requirements in §150.1(c)8 must also be demonstrated and with §150.2 for addition and alteration scopes.

Equipment Schedule: Individual Systems

01	02	03	04	05	06
Name or Item Tag	Equipment Type	Volume (gal)	Max GPM/ First Hour Rating (FHR)	Rated Uniform Energy Factor (UEF)	Minimum Required Uniform Energy Factor (UEF)[1]
WH-1	Electric Storage	31-40	51 <= FHR <75	0.92	0.92

[1]*FOOTNOTE: Compliant equipment may be found in the Modernized Appliance Efficiency Database System (MAEDBS) on the Energy Commission website: https://cacertappliances.energy.ca.gov/Pages/Search/AdvancedSearch.aspx*

Water Heating Equipment All Occupancies

	Yes	No	Not Applicable	Requirement
18	☒	☐	☐	Unfired storage tank insulation shall have Internal + External >=R-16 OR External >=R-12. Label required per §110.3(c)3
19	☐	☐	☒	New state buildings 60% of energy for service water heating from site solar energy or recovered energy per §110.3(c)5
20	☐	☐	☒	Isolation valves for instantaneous water heater with input rating >6.8 kBTUH or 2 kW has been specified per §110.3(c)6

G. DOMESTIC HOT WATER DISTRIBUTION SYSTEM

This table is used to demonstrate compliance for nonresidential occupancies with distribution requirements in §120.3 and §140.5. For high-rise residential and hotel/motel occupancies, compliance is demonstrated with requirements §110.3(c), §120.3, §150.0, §150.1

Mandatory Pipe Insulation All Occupancies

12	☒	For systems serving nonresidential spaces, pipe insulation for the following applications is specified to comply with Table 120.3-A (see below) per §120.3 : • Recirculating system piping, including supply and return piping of the water heater • The first 8 ft of hot and cold outlet piping, including between storage tank and heat trap, for a nonrecirculating storage system • Pipes that are externally heated
13	☒	Insulation shall be protected from damage, including that due to sunlight, moisture, equipment maintenance, and wind. Insulation exposed to weather shall be installed with a cover suitable for outdoor service per §120.3(b) and §150.0(j)3

Registration Number: | Registration Date/Time: | Registration Provider: Energy Code Ace

CA Building Energy Efficiency Standards - 2019 Nonresidential Compliance | Report Version: 2019.1.003 | Report Generated: 2022-06-15 10:50:44

STATE OF CALIFORNIA
Domestic Water Heating System
NRCC-PLB-E

CALIFORNIA ENERGY COMMISSION

CERTIFICATE OF COMPLIANCE			NRCC-PLB-E
Project Name:	PARC Staff Building	Report Page:	(Page 4 of 6)
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G. DOMESTIC HOT WATER DISTRIBUTION SYSTEM

TABLE 120.3-A PIPE INSULATION THICKNESS

Fluid Temperature Range (°F)	Conductivity Range (Btu-in per hour per ft² per °F)	Insulation Mean Rating Temp (°F)	Nominal Pipe Diameter (in)		
			< 1	1 to < 1.5	1.5 to < 4
			Minimum Insulation Required		
105-140	0.22 - 0.28	100	1.0 in or R-7.7	1.5 in or R-12.5	1.5 in or R-11

H. DOMESTIC HOT WATER CONTROLS

This table is used to demonstrate compliance with control requirements in §110.3 for all occupancies. For high-rise residential and hotel/motel occupancies, compliance is also demonstrated with requirements in §150.1(c)8.

	Yes	No	Not Applicable	Requirement
01	☒	☐	☐	Construction documents require manufacturer certification that service water-heating systems are equipped with automatic temperature controls capable of adjusting temperature settings per §110.3(a).
02	☐	☐	☒	Systems with capacity > 167,000 BTUH equipped with outlet temperature controls per §110.3(c)1 unless covered by California Plumbing Code 613.0.
03	☒	☐	☐	Controls for circulating pumps or electrical heat trace systems are capable of automatically turning off the system per §110.3(c)2 unless systems serves healthcare facility.
04	☐	☐	☒	For recirculation systems serving multiple dwelling units, design includes automatic pump controls per §150.1(c)8Bii, or §150.2 for additions or alterations.
05	☐	☐	☒	For recirculation systems serving individual dwelling units, design includes manual on/off controls as specified in Reference Appendix RA4.4.9 per §150.1(c)8.
06	☐	☐	☒	For replacement single heat pump water heaters serving individual dwelling units in climate zone 1-15, design includes communication interface that meets demand responsive control requirements of §110.12(a) per §150.2(b)1Hiii.

Registration Number: | Registration Date/Time: | Registration Provider: Energy Code Ace

CA Building Energy Efficiency Standards - 2019 Nonresidential Compliance | Report Version: 2019.1.003 Schema Version: rev 20200601 | Report Generated: 2022-06-15 10:50:44

REVISION DATES (DESIGN STAGE ONLY)

Sheet Version 3.0

PLANS PREPARED BY:
TETRA TECH, INC.
350 SOUTH GRAND AVENUE, SUITE 3310
LOS ANGELES, CALIFORNIA 90071
Phone: (213) 279-3283

CITY OF LOS ANGELES — DEPARTMENT OF PUBLIC WORKS — BUREAU OF ENGINEERING

VERT. CONTROL: BM 12-04070, 1929 (NGVD29) - 1985 ADJUSTMENT
HORIZ. CONTROL: GPS; PID AE 1704, EPOCH 1991.35

SHEET TITLE: TITLE 24 FORMS-STAFF BLDG.

PROJECT: SIXTH STREET PARK, ARTS AND RIVER CONNECTIVITY IMPROVEMENTS (PARC)

ADDRESS: SIXTH STREET OVER THE LOS ANGELES RIVER

GARY LEE MOORE, P.E., ENV SP — CITY ENGINEER

DESIGN GROUP — DATE:

LIC. NO. M27379

ENGINEER: KEN KULONIS
DESIGNED BY: KEN KULONIS
DRAWN BY: KEN KULONIS
CHECKED BY: JASON EUSSEL
APPROVED BY:

THIS PLAN WAS ELECTRONICALLY SIGNED AND STAMPED

NO. | REVISIONS: | DATE | BY:

INDEX NO.

BUILDING NO.

ENGINEERING — CITY OF LOS ANGELES

WORK ORDER NO. E700235D
FILE NO. --
DRAWING NO. M-805
SHEET 274 OF 295 SHEETS

7/8/2022 6:43:28 PM - C:\USERS\KEN.KULONIS\DESKTOP\PARC\CAD\SHEETFILES\M-805_TITLE 24 FORMS-STAFF-PLB.DWG - KULONIS, KEN

BID SET - NOT FOR CONSTRUCTION

STATE OF CALIFORNIA

Domestic Water Heating System

NRCC-PLB-E

CALIFORNIA ENERGY COMMISSION

CERTIFICATE OF COMPLIANCE			NRCC-PLB-E
Project Name:	PARC Staff Building	**Report Page:**	**(Page 5 of 6)**
Project Address:		**Date Prepared:**	2022-06-15T13:50:38-04:00

I. DECLARATION OF REQUIRED CERTIFICATES OF INSTALLATION

Selections have been made based on information provided in this document. If any selection have been changed by permit applicant, an explanation should be included in Table E. Additional Remarks. These documents must be provided to the building inspector during construction and can be found online at https://www.energy.ca.gov/title24/2019standards/2019_compliance_documents/Nonresidential_Documents/NRCI/

Form/Title	Field Inspector	
	Pass	Fail
NRCI-PLB-01-E - Must be submitted for all buildings	☐	☐

J.DECLARATION OF REQUIRED CERTIFICATES OF ACCEPTANCE

There are no Certificates of Acceptance applicable to service water heating requirements.

K. DECLARATION OF REQUIRED CERTIFICATES OF VERIFICATION

There are no NRCV forms required for this project.

Registration Number: | Registration Date/Time: | Registration Provider: Energy Code Ace

CA Building Energy Efficiency Standards - 2019 Nonresidential Compliance | Report Version: 2019.1.003 | Report Generated: 2022-06-15 10:50:44

STATE OF CALIFORNIA

Domestic Water Heating System

NRCC-PLB-E

CALIFORNIA ENERGY COMMISSION

CERTIFICATE OF COMPLIANCE			NRCC-PLB-E
Project Name:	PARC Staff Building	**Report Page:**	**(Page 6 of 6)**
Project Address:		**Date Prepared:**	2022-06-15T13:50:38-04:00

DOCUMENTATION AUTHOR'S DECLARATION STATEMENT

I certify that this Certificate of Compliance documentation is accurate and complete.

Documentation Author Name: Ken Kulonis	Documentation Author Signature:
Company:	Signature Date:
Address:	CEA/ HERS Certification Identification (if applicable):
City/State/Zip:	Phone:

RESPONSIBLE PERSON'S DECLARATION STATEMENT

I certify the following under penalty of perjury, under the laws of the State of California:

1. The information provided on this Certificate of Compliance is true and correct.
2. I am eligible under Division 3 of the Business and Professions Code to accept responsibility for the building design or system design identified on this Certificate of Compliance (responsible designer)
3. The energy features and performance specifications, materials, components, and manufactured devices for the building design or system design identified on this Certificate of Compliance conform to the requirements of Title 24, Part 1 and Part 6 of the California Code of Regulations.
4. The building design features or system design features identified on this Certificate of Compliance are consistent with the information provided on other applicable compliance documents, worksheets, calculations, plans and specifications submitted to the enforcement agency for approval with this building permit application.
5. I will ensure that a completed signed copy of this Certificate of Compliance shall be made available with the building permit(s) issued for the building, and made available to the enforcement agency for all applicable inspections. I understand that a completed signed copy of this Certificate of Compliance is required to be included with the documentation the builder provides to the building owner at occupancy.

Responsible Designer Name: Ken Kulonis	Responsible Designer Signature:
Company:	Date Signed:
Address:	License:
City/State/Zip:	Phone:

Registration Number: | Registration Date/Time: | Registration Provider: Energy Code Ace

CA Building Energy Efficiency Standards - 2019 Nonresidential Compliance | Report Version: 2019.1.003 Schema Version: rev 20200601 | Report Generated: 2022-06-15 10:50:44

Service Water Heating Mandatory Measures:

110.3(a) CERTIFICATION BY MANUFACTURERS
ANY SERVICE WATER HEATING SYSTEM OR EQUIPMENT MAY BE INSTALLED ONLY IF CERTIFIED TO THE ENERGY COMMISSION TO MEET ALL APPLICABLE 110.3 REQUIREMENTS

110.3(a)1 TEMPERATURE CONTROLS
SERVICE WATER HEATING SYSTEMS SHALL BE EQUIPPED WITH AUTOMATIC TEMPERATURE CONTROLS CAPABLE OF BEING ADJUSTED FROM LOWEST TO HIGHEST ACCEPTABLE TEMPERATURES FOR THE INTENDED USE AS LISTED IN TABLE 3, CHAPTER 50 OF THE ASHRAE HANDBOOK, HVAC APPLICATIONS VOLUME, OR TABLE 613.1 OF THE CALIFORNIA PLUMBING CODE FOR HEALTHCARE FACILITIES. RESIDENTIAL OCCUPANCIES ARE EXEMPT FROM TEMPERATURE CONTROL REQUIREMENTS

110.3(b) EFFICIENCY
EQUIPMENT SHALL MEET THE APPLICABLE REQUIREMENTS OF THE APPLIANCE EFFICIENCY REGULATIONS AS REQUIRED BY 110.1.

110.3(c)2 CONTROLS FOR HOT WATER DISTRIBUTION SYSTEMS
SERVICE HOT WATER SYSTEMS WITH CIRCULATING PUMPS OR WITH ELECTRICAL HEAT TRACE SYSTEMS SHALL BE CAPABLE OF AUTOMATICALLY TURNING OFF THE SYSTEM.

110.3(c)3 INSULATION
UNFIRED WATER HEATER STORAGE TANKS AND BACKUP TANKS FOR SOLAR WATER-HEATING SYSTEMS SHALL HAVE:

A. EXTERNAL INSULATION WITH AN INSTALLED R-VALUE >= R-12; OR
B. INTERNAL AND EXTERNAL INSULATION WITH A COMBINED R-VALUE >=R-16; OR
C. THE HEAT LOSS OF THE TANK SURFACE BASED ON AN 80 °F WATER-AIR TEMPERATURE DIFFERENCE SHALL BE < 6.5 BTU/HR/FT2.

110.8(a) INSULATION CERTIFICATION
INSTALLED INSULATION SHALL BE CERTIFIED BY THE DEPARTMENT OF CONSUMER AFFAIRS PER TITLE 24, PART 12, CHAPTERS 12-13, ARTICLE 3 "STANDARDS FOR INSULATING MATERIAL."

110.8(b) UREA FORMALDEHYDE INSULATION
UREA FORMALDEHYDE INSULATION SHALL NOT BE INSTALLED UNLESS IN EXTERIOR SIDE WALLS WITH A FOUR-MIL-THICK PLASTIC POLYETHYLENE VAPOR RETARDER OR EQUIVALENT PLASTIC SHEATHING VAPOR RETARDER IS INSTALLED BETWEEN THE UREA FORMALDEHYDE FOAM INSULATION AND THE INTERIOR SPACE.

110.8(c) INSULATING MATERIAL
ALL INSULATING MATERIALS SHALL BE INSTALLED IN COMPLIANCE WITH THE FLAME SPREAD RATING AND SMOKE DENSITY REQUIREMENTS OF THE CALIFORNIA BUILDING CODE.

Service Water Heating Mandatory Measures:

120.3 PIPE INSULATION
PIPE INSULATION THAT COMPLIES WITH TABLE 120.3-A, OR INSULATION THICKNESS EQUATION IN 120.3(c) IS REQUIRED FOR:

- RECIRCULATION SYSTEM PIPING, INCLUDING WATER HEATER SUPPLY AND RETURN;
- THE FIRST 8 FEET OF HOT AND COLD OUTLET PIPING, INCLUDING PIPING BETWEEN THE STORAGE TANK AND A HEAT TRAP, FOR NONRECIRCULATION STORAGE SYSTEM;
- PIPES THAT ARE EXTERNALLY HEATED

PIPE INSULATION SHALL BE PROTECTED FROM DAMAGE, INCLUDING THAT DUE TO SUNLIGHT, MOISTURE, EQUIPMENT MAINTENANCE, AND WIND. PROTECTION SHALL INCLUDE BUT NOT BE LIMITED TO THE FOLLOWING:

- INSULATION EXPOSED TO WEATHER SHALL BE PROTECTED BY A COVER SUITABLE FOR OUTDOOR SERVICE. THE COVER SHALL BE WATER RETARDANT AND PROVIDE SHIELDING FORM SOLAR RADIATION THAT CAN CAUSE DEGRADATION OF THE MATERIAL. ADHESIVE TAPE SHALL NOT BE USED TO PROVIDE THIS PROTECTION.
- PIPE INSULATION BURIED BELOW GRADE MUST BE INSTALLED IN A WATER PROOF AND NON-CRUSHABLE CASING OR SLEEVE.

REVISION DATES (DESIGN STAGE ONLY)

Sheet Version 3.0

CITY OF LOS ANGELES — DEPARTMENT OF PUBLIC WORKS — BUREAU OF ENGINEERING

VERT. CONTROL: BM 12-04070, 1929 (NGVD29) - 1985 ADJUSTMENT
HORIZ. CONTROL: GPS; PID AE 1704, EPOCH 1991.35

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ADDRESS: SIXTH STREET OVER THE LOS ANGELES RIVER

GARY LEE MOORE, P.E., ENV SP — CITY ENGINEER
DESIGN GROUP — DATE:
ENGINEER: KEN KULONIS — LIC. NO. M27379
DESIGNED BY: KEN KULONIS
DRAWN BY: KEN KULONIS
CHECKED BY: JASON E. RUSSEL
APPROVED BY:

THIS PLAN WAS ELECTRONICALLY SIGNED AND STAMPED

REGISTERED PROFESSIONAL ENGINEER KENNETH P. KULONIS No. 27379 Exp. 6-30-2023 MECHANICAL STATE OF CALIFORNIA

NO. | REVISIONS | DATE | BY

INDEX NO.

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PLANS PREPARED BY:
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WORK ORDER NO. E700235D
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DRAWING NO. M-806
SHEET 275 OF 295 SHEETS

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BID SET - NOT FOR CONSTRUCTION

STATE OF CALIFORNIA
Envelope Component Approach
NRCC-ENV-E

CALIFORNIA ENERGY COMMISSION

CERTIFICATE OF COMPLIANCE			NRCC-ENV-E
This document is used to demonstrate compliance with mandatory requirements in §110.8(g) and §120.7(b) for newly constructed buildings, and §141.0(b)1 for alterations, related to roof, wall and floor assemblies. It is also used to demonstrate compliance with prescriptive requirements in §140.3 for newly constructed buildings, and §141.0 for additions and alterations, related to roof, wall, floor, door, fenestration and daylighting requirements.			
Project Name:	PARC Cafe	Report Page:	(Page 1 of 8)
Project Address:		Date Prepared:	2022-06-27T19:34:27-04:00

A. GENERAL INFORMATION

01	Project Location (city)	Los Angeles	05	# of Stories (Habitable Above Grade)	0
02	Zipcode	90023	06	Total Conditioned Floor Area (ft²)	577
03	Climate Zone	9	07	Total Unconditioned Floor Area (ft²)	0
04	Occupancy Types Within Project: (select all that apply): If one occupancy constitutes >= 80% of the conditioned floor area, the entire building envelope may be designed to comply with the provisions of that occupancy per §100.0(f).		08	☐ Project includes unconditioned enclosed space(s) > 5,000 ft² under a roof with a ceiling height of at least 15 ft.[1]	
☒	All Nonresidential, including Relocatable Public School Building certified for use in one climate zone Occupancy: A / B / E / F / H / M / S / U	☐ Relocatable Public School Building for use in all climate zones Occupancy: E	☐ High-Rise Residential Occupancy: R-2 / R-3	☐ Hotel/Motel Guest Rooms Occupancy: R-1	

[1] FOOTNOTE: Enclosed spaces > 5,000 ft² directly under roof with ceiling height > 15 ft in climate zones 2 through 15 are required to meet the minimum daylighting requirements defined in §140.3(c). Compliance with §140.3(c) is documented in Table L. This is the only prescriptive requirement which applies to unconditioned spaces.

B. PROJECT SCOPE

This table specifies project envelope components within the permit application demonstrating compliance using the prescriptive paths outlined in §140.3, and §141.0(a)1 and §141.0(b)1 and 2 for additions and alterations.

My project consists of (check all that apply)	Component Types		
01	02		
☒ New Construction or Newly Conditioned Space	☒ Roof	☒ Walls	☐ Exterior Doors
☐ One or more enclosed spaces > 5,000 ft² directly under roof with ceiling height > 15ft		☐ Floors	☒ Fenestration/ Glazed Doors[1]
☐ Addition of conditioned space	☐ Roof	☐ Walls	☐ Exterior Doors
☐ One or more enclosed spaces > 5,000 ft² directly under roof with ceiling height > 15ft		☐ Floors	☐ Fenestration/ Glazed Doors[1]
☐ Alteration of conditioned space	☐ Roof Assembly	☐ Walls	Exterior Doors NA. for Alts.
☐ One or more enclosed spaces > 5,000 ft² directly under roof with ceiling height > 15ft and lighting system installed for the first time	☐ Roofing Material	☐ Floors	☐ Fenestration/ Glazed Doors

[1] FOOTNOTE: Doors that are more than 25% glass in area are considered Glazed Doors and should be documented on table K with fenestration.

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STATE OF CALIFORNIA
Envelope Component Approach
NRCC-ENV-E

CALIFORNIA ENERGY COMMISSION

CERTIFICATE OF COMPLIANCE			NRCC-ENV-E
Project Name:	PARC Cafe	Report Page:	(Page 3 of 8)
Project Address:		Date Prepared:	2022-06-27T19:34:27-04:00

F. ROOF ASSEMBLY SCHEDULE

Span Deck And Concrete Roof Assemblies

1/AC4-01	Café Section	New	Nonresidential/ Relocatable 1 CZ

07	08	09	10	11	12	13	14		15
Tag/Plan Detail ID	How Design U-factor was determined	Fireproofing	Concrete Topping Thickness (in.)	Continuous Insulation per Design	Thermal Performance Unit	Required Thermal Performance	U-factor per Design		Net Area[3] ft²
1/AC4-01	JA4 Tables	No	6 in.	R-30	U-factor	0.034	per JA4	0.031	
							per Software/ Other		

[1] FOOTNOTES: If any individual assembly is non-compliant, assemblies may show compliance using an area-weighted calculation. Metal building roofs may not be combined with other roof types. The area-weighted compliance option is not available for alterations demonstrating compliance with R-values in Table 141.0-C.

[2] If "R-value" is shown in cell 13 as the Thermal Performance Unit, the R-value shown here is for continuous insulation per Table 141.0-C.

[3] Roof area minus any fenestration/ skylight area

Metal Panel Assemblies

Metal Building Roof Assemblies

Area-Weighted Average U-factor Compliance Calculation for Framed/ SIPs/ Span Deck & Concrete/ Metal Panel Roofs

Area-Weighted Average U-factor Compliance Calculation for Metal Building Roof

G. RATED ROOFING MATERIAL (COOL ROOF)

This table demonstrates compliance with prescriptive roof material requirements in §140.3(a)1A for new construction or additions, or §141.0(b)2B for alterations.

01	02	03	04	05	06	07	08		09		10
Tag/Plan Detail ID	Name/Description	Status	Occupancy Type	Roof Slope	Roof Material	Compliance Method	Required Minimum Material Performance		Designed Material Performance		U-factor of Assembly
1/AC4-01	Café Section	New	Nonresidential/ Relocatable 1 CZ	<2:12 (Low)	Polymer or Composite	Solar Reflectance (Initial)/ Emittance	Reflectance	0.63	Reflectance	0.74	
							Emittance	0.75	Emittance	0.75	
							SRI		SRI		

Registration Number: | Registration Date/Time: | Registration Provider: Energy Code Ace

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STATE OF CALIFORNIA
Envelope Component Approach
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CALIFORNIA ENERGY COMMISSION

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Project Address:		Date Prepared:	2022-06-27T19:34:27-04:00

C. COMPLIANCE RESULTS

Results in this table are automatically calculated from data input and calculations in Tables F through L. Note: If any cell on this table says "COMPLIES with Exceptional Conditions" refer to Table D. Exceptional Conditions for guidance or see the applicable table referenced below.

Opaque Envelope Components					Fenestration	Daylighting Spaces > 5,000ft²	Compliance Results
Roof Assembly	Roofing Materials	Walls	Floors	Doors			
01	02	03	04	05	06	07	08
(See Table F)	(See Table G)	(See Table H)	(See Table I)	(See Table J)	(See Table K)	(See Table L)	COMPLIES with Exceptional Conditions
Yes	Yes	Yes			Yes		

D. EXCEPTIONAL CONDITIONS

This table is auto-filled with uneditable comments because of selections made or data entered in tables throughout the form.

Table K indicates that overhangs are being used to adjust vertical fenestrationSHGC to RSHGC. Overhang details are included in Table K for the fenestration assembly being adjusted.

Table H indicates an area weighted average is being used for one or more wall assemblies to demonstrate compliance. Area-weighted average tables are included at the bottom of Table H.

E. ADDITIONAL REMARKS

This table includes remarks made by the permit applicant to the Authority Having Jurisdiction.

F. ROOF ASSEMBLY SCHEDULE

This table demonstrates compliance for prescriptive roof assembly requirements in §140.3(a)1B for new construction or additions, or §141.0(b)2Bii for alterations.

01	Indicate roof types included in the project:	☐ Framed	☐ SIPS	☒ Span Deck & Concrete	☐ Metal Panels	☐ Metal Building

Framed Roof Assemblies

Structural Insulated Panels (SIPS) Roof/Ceiling Assemblies

Span Deck And Concrete Roof Assemblies

01	☐	Include Span Deck and Concrete Roof Assemblies in Area-Weighted Average U-factor Calculation[1]		
02	03	04	05	06
Tag/Plan Detail ID	Name/Description	Status	Exception to Roof Insulation Requirements in §141.0(b)2Bii (Alts. Only)	Occupancy Type

Registration Number: | Registration Date/Time: | Registration Provider: Energy Code Ace

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STATE OF CALIFORNIA
Envelope Component Approach
NRCC-ENV-E

CALIFORNIA ENERGY COMMISSION

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H. WALL ASSEMBLY SCHEDULE

This table demonstrates compliance with prescriptive wall assembly requirements in §140.3(a)2 and §140.3(a)3 for new constructions or additions, or mandatory wall assembly requirements in §141.0(b)1B for alterations.

01	Indicate wall types included in the project:[1]	☒ Framed	☐ Mass (new only)	☐ Concrete Sandwich Panel (new only)	☐ SIPS	☐ ICF (new only)
		☐ Metal Panels	☐ Metal Building	☐ Spandrel/ Curtain Wall	☐ Straw Bale	☐ Log Home (new only)

[1] FOOTNOTES: Wall types indicated above as "(new only)" do not have Title 24, Part 6 requirements for alterations. New construction and additions do have requirements and should be clicked above and compliance demonstrated within this table.

Framed Walls

01	☐	Calculate Area-Weighted Average U-factor for Metal Framed Walls[1]
02	☐	Include Wood Framed Walls in Area-Weighted Average U-factor Calculation[1]

03	04	05	06	07	08	09	10	11	12		13
Tag/Plan Detail ID	Occupancy & Status	How Design U-factor was determined	Location	Frame Material, Spacing & Depth	Cavity Insulation per Design	Continuous Insulation per Design	Thermal Performance Unit	Required Thermal Performance	U-factor per Design		Net Area[3] ft²
2/AE4-01	Nonresidential/ Relocatable 1 CZ: New	JA4 Tables	Exterior wall	Metal 16" OC 2x8	R-30	R-10	U-factor	0.062	per JA4	0.061	
									per Software/ Other		

[1] FOOTNOTES: If any individual assembly is non-compliant, assemblies may show compliance using an area-weighted calculation. Metal framed walls may not be combined with other wall types. Wood framed walls are combined with SIPS, spandrel & curtain, metal panel and straw bale wall types. The area-weighted compliance option is not available for alterations demonstrating compliance with R-values in Table 141.0-C.

[2] If "R-value" is shown in cell 10 as the Thermal Performance Unit, the R-value shown here is for cavity insulation per §141.0(b)1B.

[3] Wall area minus any fenestration area

I. FLOOR ASSEMBLY SCHEDULE

This section does not apply to this project.

Registration Number: | Registration Date/Time: | Registration Provider: Energy Code Ace

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THE CITY OF LOS ANGELES OR ITS OFFICERS OR AGENTS SHALL NOT BE RESPONSIBLE FOR THE ACCURACY OR COMPLETENESS OF ELECTRONIC COPIES OF THIS PLAN SHEET.

PLANS PREPARED BY: TETRA TECH, INC.
350 SOUTH GRAND AVENUE, SUITE 3310
LOS ANGELES, CALIFORNIA 90071
Phone: (213) 279-3283

CITY OF LOS ANGELES — DEPARTMENT OF PUBLIC WORKS — BUREAU OF ENGINEERING

ENGINEERING — CITY OF LOS ANGELES

GARY LEE MOORE, P.E., ENV SP — CITY ENGINEER

THIS PLAN WAS ELECTRONICALLY SIGNED AND STAMPED.

REGISTERED PROFESSIONAL ENGINEER KENNETH P. KULONIS No. 27379 Exp. 6-30-2023 MECHANICAL STATE OF CALIFORNIA

ENGINEER: KENNETH KULONIS — DESIGNED BY: KEN KULONIS — DRAWN BY: KEN KULONIS — CHECKED BY: JASON EUBSEL — APPROVED BY: — LIC. NO. M27379 — DESIGN GROUP

VERT. CONTROL: BM 12-04070, 1929 (NGVD29) - 1985 ADJUSTMENT
HORIZ. CONTROL: GPS; PID AE 1704, EPOCH 1991.35

SHEET TITLE: TITLE 24 FORMS-Cafe

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ADDRESS: SIXTH STREET OVER THE LOS ANGELES RIVER

WORK ORDER NO. E700235D

FILE NO. --

DRAWING NO. M-807

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STATE OF CALIFORNIA
Envelope Component Approach
NRCC-ENV-E

CALIFORNIA ENERGY COMMISSION

CERTIFICATE OF COMPLIANCE			NRCC-ENV-E
Project Name:	PARC Cafe	Report Page:	(Page 5 of 8)
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J. EXTERIOR DOOR SCHEDULE
This section does not apply to this project.

K. FENESTRATION AND GLAZED DOOR SCHEDULE
This table demonstrates compliance with prescriptive fenestration requirements in §140.3(a)5 for new constructions or additions, or §140.1(b)2A for alterations. Exterior doors that are more than one-half glass in area are considered Glazed Doors and should be documented on this table with fenestration.

01	Indicate fenestration types included in the project:[1]	☐ Vertical (alterations)	☒ Vertical (new)	☐ Skylights	☐ Glazed Doors (new only)

[1] *FOOTNOTES: Fenestration types indicated above as "(new only)" do not have Title 24, Part 6 requirements for alterations. New construction and additions do have requirements and should be clicked above and compliance demonstrated within this table.*

Vertical Fenestration and Glazed Doors- Total Building & West Facing Area (New Construction & Additions Only)

01	02	03	04	05
Elevation Item Tag/ Description	Orientation (Azimuth)[1]	Gross Exterior Wall Area[2]	Display Perimeter Length[2]	Vertical Fenestration Area per Design[3]
Sheet AC3-01	North Facing	194	0	63
Sheet AC3-01	South Facing	194	0	77
Sheet AC3-01	East Facing	194	0	55
Sheet AC3-01	West Facing	194	0	21

06	Maximum Allowed Vertical Fenestration (ft^2)- All Orientations	310.39	07	Total Vertical Fenestration (ft^2) per design- All Orientations	216
08	Maximum Allowed Vertical Fenestration (ft^2)- West Facing	77.59	09	Total Vertical Fenestration (ft^2) per design- West Facing	21

[1]*FOOTNOTES: Orientation between 226 deg and 315 deg are considered "West Facing". A diagram has been provided in the Nonresidential Compliance Manual for visual reference.*
[2]*Do not include demising walls per §140.3(a)5 .*
[3] *Includes glazed door fenestration area .*

Vertical Fenestration And Glazed Doors- U-factor, Solar Heat Gain Coefficient (RSHGC/ SHGC), Visible Transmittance (VT)

01	☐	Calculate Area-Weighted Average U-factor for Vertical Fenestration and Glazed Doors[1]
02	☐	Calculate Area-Weighted Average (R)SHGC for Vertical Fenestration and Glazed Doors[1]
03	☐	Calculate Area-Weighted Average VT for Vertical Fenestration and Glazed Doors[1]

Registration Number: Registration Date/Time: Registration Provider: Energy Code Ace
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K. FENESTRATION AND GLAZED DOOR SCHEDULE
Vertical Fenestration And Glazed Doors- U-factor, Solar Heat Gain Coefficient (RSHGC/ SHGC), Visible Transmittance (VT)

04	05	06	07	08	09		10	11	12	13
Tag/Plan Detail ID	Fenestration Type	Occupancy & Status	(R)SHGC Compliance Method	VT Compliance Method	Calculation Method for Performance Values per Design[2]		Product Performance Unit	Required Product Performance	Product Performance per Design	Area ft^2
4/AC3-01	Fixed window	Nonresidential/ Relocatable 1 CZ : New	Table 140.3-B/C/D	Table 140.3-B/C/D	NFRC Certified		U-factor (max)	0.36	0.32	188
					☒	Overhang used for RSHGC	(R)SHGC (max)	0.25	0.15	
							VT (min)	0.42	0.77	

Overhang Details for RSHGC per §140.3

26	27	28	29	30	31	32
SHGC of Window	Depth (ft)	Height From Bottom of Sill to Overhang (ft)	Left Extent[3] (ft)	Right Extent[3] (ft)	Orientation	RSHGC
0.35	20	10	20	20	East/West Facing	0.1505

[1]*FOOTNOTES: If any individual fenestration product is non-compliant, products may show compliance using an area-weighted calculation. Chromogenic glazing is not included in area-weighted calculations. Area-weighted calculation shown in separate area-weighted table below.*
[2]*The NA6 Default Calculation can only be used for buildings with less than 200ft² of site built glazing. If the project has greater than 200ft², the only options for determining fenestration values are NFRC Certification or the Default Tables in 110.6.*
[3] *Overhangs must extend past the left and right window the same distance as the depth of the overhang or greater to show an affect on the RSHGC. If an overhang does not meet this requirement, the affect of the overhang will be ignored.*
[4]*Projecting includes casement and awning windows.*

L. DAYLIGHT IN LARGE ENCLOSED SPACES
This section does not apply to this project.

Registration Number: Registration Date/Time: Registration Provider: Energy Code Ace
CA Building Energy Efficiency Standards - 2019 Nonresidential Compliance Report Version: 2019.1.003 Schema Version: rev 20200601 Report Generated: 2022-06-27 16:34:43

STATE OF CALIFORNIA
Envelope Component Approach
NRCC-ENV-E

CALIFORNIA ENERGY COMMISSION

CERTIFICATE OF COMPLIANCE			NRCC-ENV-E
Project Name:	PARC Cafe	Report Page:	(Page 7 of 8)
Project Address:		Date Prepared:	2022-06-27T19:34:27-04:00

M. DECLARATION OF REQUIRED CERTIFICATES OF INSTALLATION
Selections have been made based on information provided in this document. If any selection have been changed by the permit applicant, an explanation should be included in Table E Additional Remarks. These documents must be provided to the building inspector during construction and can be found online at https://www.energy.ca.gov/title24/2019standards/2019_compliance_documents/Nonresidential_Documents/NRCI/

Form/Title	Field Inspector	
	Pass	Fail
NRCI-ENV-01-E - Must be submitted for all buildings	☐	☐

N. DECLARATION OF REQUIRED CERTIFICATES OF ACCEPTANCE
Selections have been made based on information provided in previous tables of this document. If any selection needs to be changed, form user must provide an explanation in Table E Additional Remarks. These documents must be provided to the building inspector during construction and can be found online at https://www.energy.ca.gov/title24/2019standards/2019_compliance_documents/Nonresidential_Documents/NRCA/. Individuals who perform the field testing and verification work, and provide the information required for completion of the fenestration Certificate of Acceptance documentation are not required to be licensed professionals. However, the person who signs the Certificate of Acceptance document to certify compliance with the acceptance requirements shall be licensed as specified in Standards Section 10-103(a)4 and NA7.3.1

Form/Title	Systems/Spaces To Be Field Verified	Field Inspector	
		Pass	Fail
NRCA-ENV-02-F must be submitted for all new, added or altered fenestration.	4/AC3-01;	☐	☐

Registration Number: Registration Date/Time: Registration Provider: Energy Code Ace
CA Building Energy Efficiency Standards - 2019 Nonresidential Compliance Report Version: 2019.1.003 Schema Version: rev 20200601 Report Generated: 2022-06-27 16:34:43

STATE OF CALIFORNIA
Envelope Component Approach
NRCC-ENV-E

CALIFORNIA ENERGY COMMISSION

CERTIFICATE OF COMPLIANCE			NRCC-ENV-E
Project Name:	PARC Cafe	Report Page:	(Page 8 of 8)
Project Address:		Date Prepared:	2022-06-27T19:34:27-04:00

DOCUMENTATION AUTHOR'S DECLARATION STATEMENT
I certify that this Certificate of Compliance documentation is accurate and complete.

Documentation Author Name: Ken Kulonis	Documentation Author Signature:
Company:	Signature Date:
Address:	CEA/ HERS Certification Identification (if applicable):
City/State/Zip:	Phone:

RESPONSIBLE PERSON'S DECLARATION STATEMENT
I certify the following under penalty of perjury, under the laws of the State of California:
1. The information provided on this Certificate of Compliance is true and correct.
2. I am eligible under Division 3 of the Business and Professions Code to accept responsibility for the building design or system design identified on this Certificate of Compliance (responsible designer)
3. The energy features and performance specifications, materials, components, and manufactured devices for the building design or system design identified on this Certificate of Compliance conform to the requirements of Title 24, Part 1 and Part 6 of the California Code of Regulations.
4. The building design features or system design features identified on this Certificate of Compliance are consistent with the information provided on other applicable compliance documents, worksheets, calculations, plans and specifications submitted to the enforcement agency for approval with this building permit application.
5. I will ensure that a completed signed copy of this Certificate of Compliance shall be made available with the building permit(s) issued for the building, and made available to the enforcement agency for all applicable inspections. I understand that a completed signed copy of this Certificate of Compliance is required to be included with the documentation the builder provides to the building owner at occupancy.

Responsible Designer Name:	Responsible Designer Signature:
Company:	Date Signed:
Address:	License:
City/State/Zip:	Phone:

Registration Number: Registration Date/Time: Registration Provider: Energy Code Ace
CA Building Energy Efficiency Standards - 2019 Nonresidential Compliance Report Version: 2019.1.003 Schema Version: rev 20200601 Report Generated: 2022-06-27 16:34:43

REVISION DATES (DESIGN STAGE ONLY)

Sheet Version 3.0

PLANS PREPARED BY: TETRA TECH, INC.
350 SOUTH GRAND AVENUE, SUITE 3310
LOS ANGELES, CALIFORNIA 90071
Phone: (213) 279-3283

CITY OF LOS ANGELES — DEPARTMENT OF PUBLIC WORKS — BUREAU OF ENGINEERING

VERT. CONTROL: BM 12-04070, 1929 (NGVD29) - 1985 ADJUSTMENT
HORIZ. CONTROL: GPS; PID AE 1704, EPOCH 1991.35
SHEET TITLE: TITLE 24 FORMS-Cafe
PROJECT: SIXTH STREET PARK, ARTS AND RIVER CONNECTIVITY IMPROVEMENTS (PARC)
ADDRESS: SIXTH STREET OVER THE LOS ANGELES RIVER

GARY LEE MOORE, P.E., ENV SP — CITY ENGINEER
DESIGN GROUP — LIC. NO. M27379 — DATE:
ENGINEER: KEN KULONIS
DESIGNED BY: KEN KULONIS
DRAWN BY: KEN KULONIS
CHECKED BY: JASON EIRESSEL
APPROVED BY:

THIS PLAN WAS ELECTRONICALLY SIGNED AND STAMPED

REGISTERED PROFESSIONAL ENGINEER — KENNETH P. KULONIS — No. 27379 — Exp. 6-30-2023 — MECHANICAL — STATE OF CALIFORNIA

NO. | REVISIONS | DATE | BY

INDEX NO.

BUILDING NO.

ENGINEERING — CITY OF LOS ANGELES

WORK ORDER NO. E700235D
FILE NO. --
DRAWING NO. M-808
SHEET 277 OF 295 SHEETS

7/8/2022 6:46:54 PM - C:\USERS\KEN.KULONIS\DESKTOP\PARC\CAD\SHEETFILES\M-808_TITLE 24 FORMS-CAFE-ENVE.DWG - KULONIS, KEN

BID SET - NOT FOR CONSTRUCTION

Envelope Mandatory Measures:

110.6(a)1 MANUFACTURED FENESTRATION PRODUCT AND EXTERIOR DOOR AIR LEAKAGE
MANUFACTURED FENESTRATION PRODUCTS AND EXTERIOR DOORS SHALL HAVE AIR INFILTRATION RATES CERTIFIED BY THE MANUFACTURER NOT EXCEEDING 0.3 CFM/FT² OF WINDOW AREA, 0.3 CFM/FT² OF DOOR AREA FOR NONRESIDENTIAL SINGLE DOORS (SWINGING AND SLIDING), AND 1.0 CFM/FT² FOR NONRESIDENTIAL DOUBLE DOORS (SWINGING), WHEN TESTED ACCORDING TO NFRC-400 OR ASTM E283 AT A PRESSURE DIFFERENTIAL OF 75 PASCALS.

110.6(a)2-4 MANUFACTURED FENESTRATION PRODUCT AND EXTERIOR DOOR RATING
ALL MANUFACTURED FENESTRATION PRODUCTS AND EXTERIOR DOORS SHALL BE RATED FOR U-FACTOR ACCORDING TO NFRC PROCEDURES OR USE THE DEFAULT FENESTRATION VALUES IN TABLE 110.6-A AND DOOR VALUES IN JA4.5.

ALL MANUFACTURED FENESTRATION PRODUCTS AND EXTERIOR DOORS SHALL BE RATED FOR SHGC ACCORDING TO NFRC PROCEDURES OR USE THE DEFAULT VALUES IN TABLE 110.6-B.

ALL MANUFACTURED FENESTRATION PRODUCTS SHALL BE RATED FOR VT ACCORDING TO NFRC PROCEDURES.

110.6(a)5 MANUFACTURED FENESTRATION PRODUCT AND EXTERIOR DOOR LABELING
ALL MANUFACTURED FENESTRATION PRODUCTS AND EXTERIOR DOORS USING THE COMPONENT MODELING APPROACH (cma) SHALL BE LABELED ACCORDING TO 110.6(a)5.

110.7 EXTERIOR JOINTS
ALL EXTERIOR JOINTS, PENETRATIONS, AND OPENINGS IN THE BUILDING ENVELOPE THAT ARE POTENTIAL SOURCES OF AIR LEAKAGE SHALL BE CAULKED, GASKETED, WEATHER-STRIPPED, OR OTHERWISE SEALED.

110.8(a) INSULATION CERTIFICATION
INSTALLED INSULATION SHALL BE CERTIFIED BY THE DEPARTMENT OF CONSUMER AFFAIRS PER TITLE 24, PART 12, CHAPTERS 12-13, ARTICLE 3 "STANDARDS FOR INSULATING MATERIAL."

110.8(b) UREA FORMALDEHYDE INSULATION
UREA FORMALDEHYDE INSULATION SHALL NOT BE INSTALLED UNLESS IN EXTERIOR SIDE WALLS WITH A FOUR-MIL-THICK PLASTIC SHEATHING VAPOR RETARDER INSTALLED BETWEEN THE UREA FORMALDEHYDE FOAM INSULATION AND THE INTERIOR SPACE.

110.8(c) INSULATING MATERIAL
ALL INSULATING MATERIALS SHALL BE INSTALLED IN COMPLIANCE WITH THE FLAME SPREAD RATING AND SMOKE DENSITY REQUIREMENTS OF THE CALIFORNIA BUILDING CODE

110.8(i) RATED ROOFING PRODUCTS
ALL ROOFING PRODUCTS SPECIFIED TO MEET AGED SOLAR REFLECTANCE/THERMAL EMITTANCE REQUIREMENTS SHALL BE CERTIFIED AND LABELED BY THE COOL ROOF RATING COUNCIL (CRRC) PER 10-113, OR USE DEFAULT VALUES IN 110.8(i)
ASPHALT SHINGLES: 0.08/0.75
ALL OTHERS: 0.10/0.75
LIQUID APPLIED ROOF COATING FOR LOW SLOPE ROOF SHALL MEET COVERAGE, THICKNESS, AND PERFORMANCE VALUES PER 110.8-C

110.8(j) RADIANT BARRIER:
RADIANT BARRIERS SHALL HAVE EMITTANCE <= .05, TESTED ACCCORDING WITH ASTM C1371 OR ASTM E408, CERTIFIED BY TITLE 24 PART 12

Envelope Mandatory Measures:

120.7(a) ROOF/CEILING INSULATION:
WEIGHTED AVERAGE U-FACTOR OF ROOF ASSEMBLY SHALL BE:
<=0.098 FOR METAL BUILDING
<=0.075 FOR WOOD FRAMED AND OTHER TYPES

INSULATION PLACEMENT SHALL BE PER §120.7(a)3 REQUIREMENTS:
120.7(a)3A SHALL BE IN DIRECT CONTACT WITH ROOF OR CEILING SEALED TO LIMIT INFILTRATION AND EXFILTRATION.
120.7(a)3B WHEN INSULTATION IS INSTALLED AT ROOF, FIXED VENTS SHALL NOT BE INSTALLED, UNLESS IT IS CONSIDERED ATTIC SPACE.
120.7(a)3C SHALL NOT BE INSTALLED ON SUSPENDED CEILINGS UNLESS ITS 2000 FT2 OR LESS AND THERE IS MORE THAN 12 FT BETWEEN ROOF AND CEILING.
NOTE: ASSEMBLY OPTIONS CAN BE FOUND IN REFERENCE JOINT APPENDIX JA4

120.7(b)1-6 WALL INSULATION :
OPAQUE PORTIONS OF WALLS SEPARATING CONDITIONED SPACE FROM UNCONDITIONED SPACES OR AMBIENT AIIR SHALL MEET THE FOLLOWING:
METAL BUILDING: WEIGHTED AVERAGE U-FACTOR OF WALL ASSEMBLY <=0.113
METAL FRAMED: WEIGHTED AVERAGE U-FACTOR OF WALL ASSEMBLY <=0.151
LIGHT MASS WALLS: U-FACTOR FOR 6" OR GREATER HOLLOW CORE CONCRETE MASONRY UNIT <=0.440
HEAVY MASS WALLS: U-FACTOR FOR 8" OR GREATER HOLLOW CORE CONCRETE MASONRY UNIT <=0.690
WOOD FRAMED AND OTHER TYPES: WEIGHTED AVERAGE U-FACTOR OF WALL ASSEMBLY <=0.110
SPANDREL PANELS AND CURTAIN WALLS: WEIGHTED AVERAGE U-FACTOR OF WALL ASSEMBLY <=0.280
NOTE: ASSEMBLY OPTIONS CAN BE FOUND IN REFERENCE JOINT APPENDIX JA4

NOTE: CLOSER STUD SPACING AND/OR LOWER BATT R-VALUE AND/OR SMALLER STUDS REQUIRES CONTINUOUS INSULATION SHEATHING.
NOTE: INSULATION IS NOT REQUIRED FOR NON-FRAMED DEMISING WALLS.
NOTE: INSULATION IS NOT REQUIRED FOR NON-FRAMED DEMISING WALLS.
NOTE: ASSEMBLY OPTIONS CAN BE FOUND IN REFERENCE JOINT APPENDIX JA4

STATE OF CALIFORNIA
Mechanical Systems
NRCC-MCH-E

CALIFORNIA ENERGY COMMISSION

CERTIFICATE OF COMPLIANCE			NRCC-MCH-E
This document is used to demonstrate compliance for mechanical systems that are within the scope of the permit application and are demonstrating compliance using the prescriptive path outlined in §140.4, or §141.0(b)2 for alterations.			
Project Name:	PARC Cafe	Report Page:	(Page 1 of 6)
Project Address:		Date Prepared:	2022-06-27T19:50:34-04:00

A. GENERAL INFORMATION

01	Project Location (city)	Los Angeles	04	Total Conditioned Floor Area	577
02	Climate Zone	9	05	Total Unconditioned Floor Area	0
03	Occupancy Types Within Project:		06	# of Stories (Habitable Above Grade)	1
☐	Office (B)	☐ Retail (M)	☐	Non-refrigerated Warehouse (S)	
☐	Hotel/ Motel Guest Rooms (R-1)	☐ School (E)	☐	Healthcare Facility (I)	
☐	High-Rise Residential (R-2/R-3)	☐ Relocatable Class Bldg (E)	☒	Other (write in)	Café

B. PROJECT SCOPE

This table includes mechanical systems or components that are within the scope of the permit application and are demonstrating compliance using the prescriptive path outlined in §140.4, or §141.0(b)2 for alterations.

01		02		03	
Air System(s)		Wet System Components		Dry System Components	
☒	Heating Air System	☐	Water Economizer	☐	Air Economizer
☒	Cooling Air System	☐	Pumps	☐	Electric Resistance Heat
Mechanical Controls		☐	System Piping	☐	Fan Systems
☐	Mechanical Controls (existing to remain, altered or new)	☐	Cooling Towers	☐	Ductwork (existing to remain, altered or new)
		☐	Chillers	☐	Ventilation
		☐	Boilers	☐	Zonal Systems/ Terminal Boxes

Registration Number: | Registration Date/Time: | Registration Provider: Energy Code Ace

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STATE OF CALIFORNIA
Mechanical Systems
NRCC-MCH-E

CALIFORNIA ENERGY COMMISSION

CERTIFICATE OF COMPLIANCE			NRCC-MCH-E
Project Name:	PARC Cafe	Report Page:	(Page 2 of 6)
Project Address:		Date Prepared:	2022-06-27T19:50:34-04:00

C. COMPLIANCE RESULTS

Table C will indicate if the project data input into the compliance document is compliant with mechanical requirements. This table is not editable by the user. If this table says "DOES NOT COMPLY" or "COMPLIES with Exceptional Conditions" refer to Table D., or the table indicated as not compliant for guidance.

01		02		03		04		05		06		07		08	09
System Summary §110.1, §110.2, §140.4	AND	Pumps §140.4(k)	AND	Fans/ Economizers §140.4(c), §140.4(e)	AND	System Controls §110.2, §120.2, §140.4(f)	AND	Ventilation §120.1	AND	Terminal Box Controls §140.4(d)	AND	Distribution §120.3, §140.4(l)	AND	Cooling Towers §110.2(e)2	Compliance Results
(See Table F)		(See Table G)		(See Table H)		(See Table I)		(See Table J)		(See Table K)		(See Table L)		(See Table M)	
Yes	AND		AND		AND	Yes	AND		AND		AND		AND		COMPLIES
Mandatory Measures Compliance (See Table Q for Details)											COMPLIES				

D. EXCEPTIONAL CONDITIONS

This table is auto-filled with uneditable comments because of selections made or data entered in tables throughout the form.

E. ADDITIONAL REMARKS

This table includes remarks made by the permit applicant to the Authority Having Jurisdiction.

Registration Number: | Registration Date/Time: | Registration Provider: Energy Code Ace

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STATE OF CALIFORNIA
Mechanical Systems
NRCC-MCH-E

CALIFORNIA ENERGY COMMISSION

CERTIFICATE OF COMPLIANCE			NRCC-MCH-E
Project Name:	PARC Cafe	Report Page:	(Page 3 of 6)
Project Address:		Date Prepared:	2022-06-27T19:50:34-04:00

F. HVAC SYSTEM SUMMARY (DRY & WET SYSTEMS)

This table is used to demonstrate compliance for mechanical equipment with mandatory requirements found in §110.1 and §110.2(a) and prescriptive requirements found in §140.4(a), §140.4(b) and §140.4(k) or §141.0(b)2 for alterations.

Dry System Equipment Sizing (includes air conditioners, condensers, heat pumps, VRF, furnaces and unit heaters)

01	02	03	04	05	06	07	08	09	10	11
Name or Item Tag	Equipment Category per Tables 110.2	Equipment Type per Tables 110.2 / Title 20	Smallest Size Available[1] §140.4(a)	Equipment Sizing per Mechanical Schedule (kBtu/h) §140.4 (a&b)						
				Heating Output[2,3]			Cooling Output[2,3]		Load Calculations[1,4]	
				Per Design (kBtu/h)	Rated (kBtu/h)	Supp. Heating Output (kBtu/h)	Sensible Per Design (kBtu/h)	Rated (kBtu/h)	Total Heating Load (kBtu/h)	Total Sensible Cooling Load (kBtu/h)
HP-2	Unitary Heat Pumps	Air-cooled, split (1phase)	Yes	18	19.5	17	13	15.7	18	22.5

[1]FOOTNOTES: Equipment shall be the smallest size, within the available options of the desired equipment line, necessary to meet the design heating and cooling loads of the building per §140.4(a). Healthcare facilities are excepted.

[2]It is common practice to show rated output capacity on the equipment schedule. Sensible cooling output comes from specification sheet tables.

[3] If equipment is heating only, leave cooling output and load blank. If equipment is cooling only, leave heating output and load blank.

[4] Authority Having Jurisdiction may ask for load calculations used for compliance per §140.4(b).

Dry System Equipment Efficiency (other than Package Terminal Air Conditioners (PTAC) and Package Terminal Heat Pumps (PTHP))

01	02	03	04	05	06	07	08	09
Name or Item Tag	Size Category (Btu/h)	Heating Mode				Cooling Mode		
		Rating Condition (°F)	Efficiency Unit	Minimum Efficiency Required per Tables 110.2 / Title 20	Design Efficiency	Efficiency Unit	Minimum Efficiency Required per Tables 110.2 / Title 20	Design Efficiency
HP-2	<65,000		HSPF	8.19	8.19	SEER	14	14

G. PUMPS

This section does not apply to this project.

Registration Number: | Registration Date/Time: | Registration Provider: Energy Code Ace

CA Building Energy Efficiency Standards - 2019 Nonresidential Compliance | Report Version: 2019.1.003 Schema Version: rev 20200601 | Report Generated: 2022-06-27 16:50:43

STATE OF CALIFORNIA
Mechanical Systems
NRCC-MCH-E

CALIFORNIA ENERGY COMMISSION

CERTIFICATE OF COMPLIANCE			NRCC-MCH-E
Project Name:	PARC Cafe	Report Page:	(Page 4 of 6)
Project Address:		Date Prepared:	2022-06-27T19:50:34-04:00

H. FAN SYSTEMS & AIR ECONOMIZERS

This section does not apply to this project.

I. SYSTEM CONTROLS

This table is used to demonstrate compliance with mandatory controls in §110.2 and §120.2 and prescriptive controls in §140.4(f) and (n) or requirements in §141.0(b)2E for altered space conditioning systems.

01	02	03	04	05	06	07	08	09
System Name	System Zoning	Conditioned Floor Area Being Served (ft²)	Thermostats §110.2(b) & (c)*, §120.2(a)or §141.0(b)2E	Shut-Off Controls §120.2(e)	Isolation Zone Controls §120.2(g)	Demand Response §110.12 and §120.2(b)	Supply Air Temp. Reset §140.4(f)	Window Interlocks per §140.4(n)
HP-2	Single zone	<= 25,000 ft²	Setback	Auto Timer Switch	4 Hour Timer	NA: PTAC, PTHP, Rm AC, HP	NA: Single Zone	NA: No operable windows

[1]FOOTNOTES: Gravity gas wall heaters, gravity floor heaters, gravity room heaters, non-central electric heaters, fireplaces or decorative gas appliances, wood stoves are not required to have setback thermostats.

*Notes: Controls with a * require a note in the space below explaining how compliance is achieved. EX: system 1: SA Temp Reset: Exempt because zones compliant with §140.4(d) ; EXCEPTION 1 to §140.4(f)

J. VENTILATION AND INDOOR AIR QUALITY

This section does not apply to this project.

K. TERMINAL BOX CONTROLS

This section does not apply to this project.

L. DISTRIBUTION (DUCTWORK and PIPING)

This section does not apply to this project.

M. COOLING TOWERS

This section does not apply to this project.

Registration Number: | Registration Date/Time: | Registration Provider: Energy Code Ace

CA Building Energy Efficiency Standards - 2019 Nonresidential Compliance | Report Version: 2019.1.003 Schema Version: rev 20200601 | Report Generated: 2022-06-27 16:50:43

PLANS PREPARED BY:
TETRA TECH, INC.
350 SOUTH GRAND AVENUE, SUITE 3310
LOS ANGELES, CALIFORNIA 90071
Phone: (213) 279-3283

CITY OF LOS ANGELES — DEPARTMENT OF PUBLIC WORKS — BUREAU OF ENGINEERING

VERT. CONTROL: BM 12-04070, 1929 (NGVD29) - 1985 ADJUSTMENT
HORIZ. CONTROL: GPS; PID AE 1704, EPOCH 1991.35

SHEET TITLE: TITLE 24 FORMS-CAFE
PROJECT: SIXTH STREET PARK, ARTS AND RIVER CONNECTIVITY IMPROVEMENTS (PARC)
ADDRESS: SIXTH STREET OVER THE LOS ANGELES RIVER

GARY LEE MOORE, P.E., ENV SP — CITY ENGINEER
DESIGN GROUP
ENGINEER: KEN KULONIS
DESIGNED BY: KEN KULONIS
DRAWN BY: KEN KULONIS
CHECKED BY: JASON EUBBEL
APPROVED BY:
LIC. NO. M27379
DATE:

THIS PLAN WAS ELECTRONICALLY SIGNED AND STAMPED

NO. | REVISIONS | DATE | BY

INDEX NO.
BUILDING NO.

WORK ORDER NO. E700235D
FILE NO. --
DRAWING NO. M-810
SHEET 279 OF 295 SHEETS

THE CITY OF LOS ANGELES OR ITS OFFICERS OR AGENTS SHALL NOT BE RESPONSIBLE FOR THE ACCURACY OR COMPLETENESS OF ELECTRONIC COPIES OF THIS PLAN SHEET.

REVISION DATES (DESIGN STAGE ONLY)

Sheet Version 3.0

7/8/2022 6:48:50 PM - C:\USERS\KEN.KULONIS\DESKTOP\PARC\CAD\SHEETFILES\M-810_TITLE 24 FORMS-CAFE-MECH.DWG - KULONIS, KEN

BID SET - NOT FOR CONSTRUCTION

STATE OF CALIFORNIA

Mechanical Systems

NRCC-MCH-E

CALIFORNIA ENERGY COMMISSION

CERTIFICATE OF COMPLIANCE			NRCC-MCH-E
Project Name:	PARC Cafe	**Report Page:**	(Page 5 of 6)
Project Address:		**Date Prepared:**	2022-06-27T19:50:34-04:00

N. DECLARATION OF REQUIRED CERTIFICATES OF INSTALLATION

Selections have been made based on information provided in previous tables of this document. If any selection needs to be changed, please explain why in Table E Additional Remarks. These documents must be provided to the building inspector during construction and can be found online at https://www.energy.ca.gov/title24/2019standards/2019_compliance_documents/Nonresidential_Documents/NRCI/

Form/Title	Field Inspector	
	Pass	Fail
NRCI-MCH-01-E - Must be submitted for all buildings	☐	☐

O. DECLARATION OF REQUIRED CERTIFICATES OF ACCEPTANCE

There are no NRCA forms required for this project.

P. DECLARATION OF REQUIRED CERTIFICATES OF VERIFICATION

There are no NRCV forms required for this project.

Q. MANDATORY MEASURES DOCUMENTATION LOCATION

This table is used to indicate where mandatory measures are documented in the plan set or construction documentation.

01		02
Compliance with Mandatory Measures documented through MCH Mandatory Measures Note Block	No	

03	04
Mandatory Measure	**Plan sheet or construction document location**
Heating Equipment Efficiency per §110.1	M-601
Cooling Equipment Efficiency per §110.1	M-601
Furnace Standby Loss Control per §110.2(d)	M-601
Heat Pump with Supplemental electric Resistance Heater Controls per §110.2(b)	M-601

Registration Number: | Registration Date/Time: | Registration Provider: Energy Code Ace

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STATE OF CALIFORNIA

Mechanical Systems

NRCC-MCH-E

CALIFORNIA ENERGY COMMISSION

CERTIFICATE OF COMPLIANCE			NRCC-MCH-E
Project Name:	PARC Cafe	**Report Page:**	(Page 6 of 6)
Project Address:		**Date Prepared:**	2022-06-27T19:50:34-04:00

DOCUMENTATION AUTHOR'S DECLARATION STATEMENT

I certify that this Certificate of Compliance documentation is accurate and complete.

Documentation Author Name: Ken Kulonis	Documentation Author Signature:
Company:	Signature Date:
Address:	CEA/ HERS Certification Identification (if applicable):
City/State/Zip:	Phone:

RESPONSIBLE PERSON'S DECLARATION STATEMENT

I certify the following under penalty of perjury, under the laws of the State of California:

1. The information provided on this Certificate of Compliance is true and correct.
2. I am eligible under Division 3 of the Business and Professions Code to accept responsibility for the building design or system design identified on this Certificate of Compliance (responsible designer)
3. The energy features and performance specifications, materials, components, and manufactured devices for the building design or system design identified on this Certificate of Compliance conform to the requirements of Title 24, Part 1 and Part 6 of the California Code of Regulations.
4. The building design features or system design features identified on this Certificate of Compliance are consistent with the information provided on other applicable compliance documents, worksheets, calculations, plans and specifications submitted to the enforcement agency for approval with this building permit application.
5. I will ensure that a completed signed copy of this Certificate of Compliance shall be made available with the building permit(s) issued for the building, and made available to the enforcement agency for all applicable inspections. I understand that a completed signed copy of this Certificate of Compliance is required to be included with the documentation the builder provides to the building owner at occupancy.

Responsible Designer Name:	Responsible Designer Signature:
Company:	Date Signed:
Address:	License:
City/State/Zip:	Phone:

Registration Number: | Registration Date/Time: | Registration Provider: Energy Code Ace

CA Building Energy Efficiency Standards - 2019 Nonresidential Compliance | Report Version: 2019.1.003 Schema Version: rev 20200601 | Report Generated: 2022-06-27 16:50:43

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CITY OF LOS ANGELES — DEPARTMENT OF PUBLIC WORKS — BUREAU OF ENGINEERING

VERT. CONTROL: BM 12-04070, 1929 (NGVD29) - 1985 ADJUSTMENT
HORIZ. CONTROL: GPS, PID AE 1704, EPOCH 1991.35

SHEET TITLE: TITLE 24 FORMS-CAFE
PROJECT: SIXTH STREET PARK, ARTS AND RIVER CONNECTIVITY IMPROVEMENTS (PARC)
ADDRESS: SIXTH STREET OVER THE LOS ANGELES RIVER

GARY LEE MOORE, P.E., ENV SP — CITY ENGINEER
DESIGN GROUP
ENGINEER: KEN KULONIS — LIC. NO. M27379 — DATE:
DESIGNED BY: KEN KULONIS
DRAWN BY: KEN KULONIS
CHECKED BY: JASON EUSSEL
APPROVED BY:

THIS PLAN WAS ELECTRONICALLY SIGNED AND STAMPED
REGISTERED PROFESSIONAL ENGINEER KENNETH P. KULONIS No. 27379 Exp. 6-30-2023 MECHANICAL STATE OF CALIFORNIA

NO. | REVISIONS: | DATE | BY:
INDEX NO.
BUILDING NO.

WORK ORDER NO. E700235D
FILE NO. --
DRAWING NO. M-811
SHEET 280 OF 295 SHEETS

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BID SET - NOT FOR CONSTRUCTION

STATE OF CALIFORNIA
Domestic Water Heating System
NRCC-PLB-E

CALIFORNIA ENERGY COMMISSION

CERTIFICATE OF COMPLIANCE			NRCC-PLB-E
This document is used to demonstrate compliance for nonresidential occupancies with requirements in §110.1, §110.3, §120.3, and §140.5, and with requirements in §141.0 for additions and alterations, for domestic water heating scopes using the prescriptive path. For high-rise residential and hotel/motel occupancies compliance is demonstrated with requirements in §110.1, §110.3, §120.3, §150.0 and §150.1(c)8, and with requirements §150.2 for additions.			
Project Name:	PARC Restroom	Report Page:	(Page 1 of 6)
Project Address:		Date Prepared:	2022-06-27T18:09:55-04:00

A. GENERAL INFORMATION

01	Project Location (city)	Los Angeles	02 Climate Zone	9
03	Occupancy Types Within Project (select all that apply):			
☐ Nonresidential	☐ High-Rise Residential	☐ Hotel/Motel		
☐ State Building	☐ Healthcare Facility	☒ Other (Write In)	Restroom Building	

B. PROJECT SCOPE

This table includes domestic water heating systems that are within the scope of the permit application and are demonstrating compliance using the prescriptive paths outlined in §140.5, §150.1(c)8, and §141.0(a), or §141.0(b)2N for additions or alterations. Solar water heating systems are documented on the NRCC-SRA compliance document. Combined hydronic water heating systems are documented on the NRCC-MCH compliance document.

01	02	03		
My project consists of (check all that apply):	System Type[1,2]	System Components		
☒ New system (DHW system being installed for the first time in newly constructed building)	Central System (serving nonresidential spaces)	☒ Equipment	☒ Distribution	☒ Controls
☐ System Alteration (equipment, distribution or controls)		☐ Equipment	☐ Distribution	☐ Controls

[1]FOOTNOTES: Point of use water heaters, or other non-central systems used to serve nonresidential spaces, are considered individual systems.
[2] Dwelling units refers to hotel/motel guest rooms and units in a high-rise residential occupancy.

Registration Number: | Registration Date/Time: | Registration Provider: Energy Code Ace
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STATE OF CALIFORNIA
Domestic Water Heating System
NRCC-PLB-E

CALIFORNIA ENERGY COMMISSION

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C. COMPLIANCE RESULTS

Table C will indicate if the project data input into the compliance document is compliant with water heating requirements. If this table says "DOES NOT COMPLY" or "COMPLIES with Exceptional Conditions" refer to Table D. or the table indicated as not compliant for guidance.

01	02	03	04
Domestic Hot Water Equipment	Distribution Systems	Controls	Compliance Results
Table F	Table G	Table H	
Yes	Yes	Yes	COMPLIES

D. EXCEPTIONAL CONDITIONS

This table is auto-filled with uneditable comments because of selections made or data entered in tables throughout the form.

E. ADDITIONAL REMARKS

This table is includes remarks made by the permit applicant to the Authority Having Jurisdiction.

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F. DOMESTIC HOT WATER EQUIPMENT

This table is used to demonstrate compliance with mandatory equipment requirements in §110.1 and §110.3. For high-rise residential and hotel/motel occupancies, compliance with prescriptive requirements in §150.1(c)8 must also be demonstrated and with §150.2 for addition and alteration scopes.

Equipment Schedule: Central Systems

07	08	09	10	11	12	13	14	15
Name or Item Tag	Equipment Type	Volume (gal)	Rated Input Capacity (Btu/h)	Rated Efficiency (%)	Minimum Efficiency Required (%)	Efficiency Unit	Designed Standby Loss[1]	Maximum Standby Loss[1]
WH-1	Electric Storage Water Heater	36	15,354	0.92			1.02	1.05

[1]FOOTNOTE: For gas water heaters/boilers, standby loss is in BTUH. for electric storage water heaters, standby loss is in %/hr.

Water Heating Equipment All Occupancies

	Yes	No	Not Applicable	Requirement
18	☒	☐	☐	Unfired storage tank insulation shall have Internal + External >=R-16 OR External >=R-12. Label required per §110.3(c)3
19	☐	☐	☒	New state buildings 60% of energy for service water heating from site solar energy or recovered energy per §110.3(c)5
20	☐	☐	☒	Isolation valves for instantaneous water heater with input rating >6.8 kBTUH or 2 kW has been specified per §110.3(c)6

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G. DOMESTIC HOT WATER DISTRIBUTION SYSTEM

This table is used to demonstrate compliance for nonresidential occupancies with distribution requirements in §120.3 and §140.5. For high-rise residential and hotel/motel occupancies, compliance is demonstrated with requirements §110.3(c), §120.3, §150.0, §150.1

Recirculation Loops in Central Systems Serving Dwelling Units or Nonresidential Spaces

	Yes	No	Not Applicable	Requirement
01	○	○	●	Air release valve or vertical pump installation per §110.3(c)4A
02	○	○	●	Check valve or similar located between recirculation pump and water heating equipment to prevent backflow per §110.3(c)4B
03	○	○	●	Hose bibb installed between pump and equipment and isolation valve between hose bibb and equipment per §110.3(c)4C
04	○	○	●	Isolation valves on both sides of the pump per §110.3(c)4D
05	○	○	●	Cold water and recirculation loop piping shall not be connected to the hot water storage tank drain port per §110.3(c)4E
06	●	○	○	Check valve installed on cold water supply between hot water system and next closest tee on cold water supply per §110.3(c)4F
07	○	○	●	For central systems serving multiple dwelling units, design includes two or more recirculation loops serving separate dwelling units per §150.1(c)8(i) unless building has <=8 dwelling units.

Mandatory Pipe Insulation All Occupancies

12	☒	For systems serving nonresidential spaces, pipe insulation for the following applications is specified to comply with Table 120.3-A (see below) per §120.3 : • Recirculating system piping, including supply and return piping of the water heater • The first 8 ft of hot and cold outlet piping, including between storage tank and heat trap, for a nonrecirculating storage system • Pipes that are externally heated
13	☒	Insulation shall be protected from damage, including that due to sunlight, moisture, equipment maintenance, and wind. Insulation exposed to weather shall be installed with a cover suitable for outdoor service per §120.3(b) and §150.0(j)3

TABLE 120.3-A PIPE INSULATION THICKNESS

Fluid Temperature Range (°F)	Conductivity Range (Btu-in per hour per ft² per °F)	Insulation Mean Rating Temp (°F)	Nominal Pipe Diameter (in) < 1	1 to < 1.5	1.5 to < 4
			Minimum Insulation Required		
105-140	0.22 - 0.28	100	1.0 in or R-7.7	1.5 in or R-12.5	1.5 in or R-11

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Phone: (213) 279-3283

CITY OF LOS ANGELES — DEPARTMENT OF PUBLIC WORKS — BUREAU OF ENGINEERING

VERT. CONTROL: BM 12-04070, 1929 (NGVD29) - 1985 ADJUSTMENT
HORIZ. CONTROL: GPS: PID AE 1704, EPOCH 1991.35

SHEET TITLE: TITLE 24 FORMS-RESTROOM BLDG.
PROJECT: SIXTH STREET PARK, ARTS AND RIVER CONNECTIVITY IMPROVEMENTS (PARC)
ADDRESS: SIXTH STREET OVER THE LOS ANGELES RIVER

GARY LEE MOORE, P.E., ENV SP — CITY ENGINEER
DESIGN GROUP — LIC. NO. M27379 — DATE:
ENGINEER: KEN KULONIS
DESIGNED BY: KEN KULONIS
DRAWN BY: KEN KULONIS
CHECKED BY: JASON EUSEBIO
APPROVED BY:

THIS PLAN WAS ELECTRONICALLY SIGNED AND STAMPED.

REGISTERED PROFESSIONAL ENGINEER KENNETH P. KULONIS No. 27379 Exp. 6-30-2023 MECHANICAL STATE OF CALIFORNIA

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ENGINEERING — CITY OF LOS ANGELES

WORK ORDER NO. E700235D
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DRAWING NO. M-812
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STATE OF CALIFORNIA

Domestic Water Heating System

NRCC-PLB-E

CALIFORNIA ENERGY COMMISSION

CERTIFICATE OF COMPLIANCE			NRCC-PLB-E
Project Name:	PARC Restroom	**Report Page:**	(Page 5 of 6)
Project Address:		**Date Prepared:**	2022-06-27T18:09:55-04:00

H. DOMESTIC HOT WATER CONTROLS

This table is used to demonstrate compliance with control requirements in §110.3 for all occupancies. For high-rise residential and hotel/motel occupancies, compliance is also demonstrated with requirements in §150.1(c)8.

	Yes	No	Not Applicable	Requirement
01	☒	☐	☐	Construction documents require manufacturer certification that service water-heating systems are equipped with automatic temperature controls capable of adjusting temperature settings per §110.3(a).
02	☐	☐	☒	Systems with capacity > 167,000 BTUH equipped with outlet temperature controls per §110.3(c)1 unless covered by California Plumbing Code 613.0.
03	☐	☐	☒	Controls for circulating pumps or electrical heat trace systems are capable of automatically turning off the system per §110.3(c)2 unless systems serves healthcare facility.
04	☐	☐	☒	For recirculation systems serving multiple dwelling units, design includes automatic pump controls per §150.1(c)8Bii, or §150.2 for additions or alterations.
05	☐	☐	☒	For recirculation systems serving individual dwelling units, design includes manual on/off controls as specified in Reference Appendix RA4.4.9 per §150.1(c)8.
06	☐	☐	☒	For replacement single heat pump water heaters serving individual dwelling units in climate zone 1-15, design includes communication interface that meets demand responsive control requirements of §110.12(a) per §150.2(b)1Hiii.

I. DECLARATION OF REQUIRED CERTIFICATES OF INSTALLATION

Selections have been made based on information provided in this document. If any selection have been changed by permit applicant, an explanation should be included in Table E. Additional Remarks. These documents must be provided to the building inspector during construction and can be found online at https://www.energy.ca.gov/title24/2019standards/2019_compliance_documents/Nonresidential_Documents/NRCI/

Form/Title	Field Inspector	
	Pass	Fail
NRCI-PLB-01-E - Must be submitted for all buildings	☐	☐

J. DECLARATION OF REQUIRED CERTIFICATES OF ACCEPTANCE

There are no Certificates of Acceptance applicable to service water heating requirements.

K. DECLARATION OF REQUIRED CERTIFICATES OF VERIFICATION

There are no NRCV forms required for this project.

Registration Number: | Registration Date/Time: | Registration Provider: Energy Code Ace

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STATE OF CALIFORNIA

Domestic Water Heating System

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Project Address:		**Date Prepared:**	2022-06-27T18:09:55-04:00

DOCUMENTATION AUTHOR'S DECLARATION STATEMENT

I certify that this Certificate of Compliance documentation is accurate and complete.

Documentation Author Name: Ken Kulonis	Documentation Author Signature:
Company:	Signature Date:
Address:	CEA/ HERS Certification Identification (if applicable):
City/State/Zip:	Phone:

RESPONSIBLE PERSON'S DECLARATION STATEMENT

I certify the following under penalty of perjury, under the laws of the State of California:

1. The information provided on this Certificate of Compliance is true and correct.
2. I am eligible under Division 3 of the Business and Professions Code to accept responsibility for the building design or system design identified on this Certificate of Compliance (responsible designer)
3. The energy features and performance specifications, materials, components, and manufactured devices for the building design or system design identified on this Certificate of Compliance conform to the requirements of Title 24, Part 1 and Part 6 of the California Code of Regulations.
4. The building design features or system design features identified on this Certificate of Compliance are consistent with the information provided on other applicable compliance documents, worksheets, calculations, plans and specifications submitted to the enforcement agency for approval with this building permit application.
5. I will ensure that a completed signed copy of this Certificate of Compliance shall be made available with the building permit(s) issued for the building, and made available to the enforcement agency for all applicable inspections. I understand that a completed signed copy of this Certificate of Compliance is required to be included with the documentation the builder provides to the building owner at occupancy.

Responsible Designer Name:	Responsible Designer Signature:
Company:	Date Signed:
Address:	License:
City/State/Zip:	Phone:

Registration Number: | Registration Date/Time: | Registration Provider: Energy Code Ace

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Service Water Heating Mandatory Measures:

110.3(a) CERTIFICATION BY MANUFACTURERS
ANY SERVICE WATER HEATING SYSTEM OR EQUIPMENT MAY BE INSTALLED ONLY IF CERTIFIED TO THE ENERGY COMMISSION TO MEET ALL APPLICABLE 110.3 REQUIREMENTS

110.3(a)1 TEMPERATURE CONTROLS
SERVICE WATER HEATING SYSTEMS SHALL BE EQUIPPED WITH AUTOMATIC TEMPERATURE CONTROLS CAPABLE OF BEING ADJUSTED FROM LOWEST TO HIGHEST ACCEPTABLE TEMPERATURES FOR THE INTENDED USE AS LISTED IN TABLE 3, CHAPTER 50 OF THE ASHRAE HANDBOOK, HVAC APPLICATIONS VOLUME, OR TABLE 613.1 OF THE CALIFORNIA PLUMBING CODE FOR HEALTHCARE FACILITIES. RESIDENTIAL OCCUPANCIES ARE EXEMPT FROM TEMPERATURE CONTROL REQUIREMENTS

110.3(b) EFFICIENCY
EQUIPMENT SHALL MEET THE APPLICABLE REQUIREMENTS OF THE APPLIANCE EFFICIENCY REGULATIONS AS REQUIRED BY 110.1.

110.3(c)3 INSULATION
UNFIRED WATER HEATER STORAGE TANKS AND BACKUP TANKS FOR SOLAR WATER-HEATING SYSTEMS SHALL HAVE:
A. EXTERNAL INSULATION WITH AN INSTALLED R-VALUE >= R-12; OR
B. INTERNAL AND EXTERNAL INSULATION WITH A COMBINED R-VALUE >=R-16; OR
C. THE HEAT LOSS OF THE TANK SURFACE BASED ON AN 80 °F WATER-AIR TEMPERATURE DIFFERENCE SHALL BE < 6.5 BTU/HR/FT2.

110.8(a) INSULATION CERTIFICATION
INSTALLED INSULATION SHALL BE CERTIFIED BY THE DEPARTMENT OF CONSUMER AFFAIRS PER TITLE 24, PART 12, CHAPTERS 12-13, ARTICLE 3 "STANDARDS FOR INSULATING MATERIAL."

110.8(b) UREA FORMALDEHYDE INSULATION
UREA FORMALDEHYDE INSULATION SHALL NOT BE INSTALLED UNLESS IN EXTERIOR SIDE WALLS WITH A FOUR-MIL-THICK PLASTIC POLYETHYLENE VAPOR RETARDER OR EQUIVALENT PLASTIC SHEATHING VAPOR RETARDER IS INSTALLED BETWEEN THE UREA FORMALDEHYDE FOAM INSULATION AND THE INTERIOR SPACE.

110.8(c) INSULATING MATERIAL
ALL INSULATING MATERIALS SHALL BE INSTALLED IN COMPLIANCE WITH THE FLAME SPREAD RATING AND SMOKE DENSITY REQUIREMENTS OF THE CALIFORNIA BUILDING CODE.

120.3 PIPE INSULATION
PIPE INSULATION THAT COMPLIES WITH TABLE 120.3-A, OR INSULATION THICKNESS EQUATION IN 120.3(c) IS REQUIRED FOR:
- RECIRCULATION SYSTEM PIPING, INCLUDING WATER HEATER SUPPLY AND RETURN;
- THE FIRST 8 FEET OF HOT AND COLD OUTLET PIPING, INCLUDING PIPING BETWEEN THE STORAGE TANK AND A HEAT TRAP, FOR NONRECIRCULATION STORAGE SYSTEM;
- PIPES THAT ARE EXTERNALLY HEATED

PIPE INSULATION SHALL BE PROTECTED FROM DAMAGE, INCLUDING THAT DUE TO SUNLIGHT, MOISTURE, EQUIPMENT MAINTENANCE, AND WIND. PROTECTION SHALL INCLUDE BUT NOT BE LIMITED TO THE FOLLOWING:
- INSULATION EXPOSED TO WEATHER SHALL BE PROTECTED BY A COVER SUITABLE FOR OUTDOOR SERVICE. THE COVER SHALL BE WATER RETARDANT AND PROVIDE SHIELDING FORM SOLAR RADIATION THAT CAN CAUSE DEGRADATION OF THE MATERIAL. ADHESIVE TAPE SHALL NOT BE USED TO PROVIDE THIS PROTECTION.
- PIPE INSULATION BURIED BELOW GRADE MUST BE INSTALLED IN A WATER PROOF AND NON-CRUSHABLE CASING OR SLEEVE.

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CITY OF LOS ANGELES — DEPARTMENT OF PUBLIC WORKS — BUREAU OF ENGINEERING

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HORIZ. CONTROL: GPS; PID AE 1704, EPOCH 1991.35

SHEET TITLE: TITLE 24 FORMS-RESTROOM BLDG.
PROJECT: SIXTH STREET PARK, ARTS AND RIVER CONNECTIVITY IMPROVEMENTS (PARC)
ADDRESS: SIXTH STREET OVER THE LOS ANGELES RIVER

GARY LEE MOORE, P.E., ENV SP — CITY ENGINEER
DESIGN GROUP — LIC. NO. M27379
ENGINEER: KEN KULONIS
DESIGNED BY: KEN KULONIS
DRAWN BY: KEN KULONIS
CHECKED BY: JASON EUSSEL
APPROVED BY:

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PIPING SYMBOLS

- CD — CONDENSATE DRAIN LINE
- UNION
- CAP
- HOSE END CONNECTION
- FLEXIBLE CONNECTOR
- CONNECTION, BOTTOM
- CONNECTION, TOP
- PIPE TURNING DOWN
- PIPE TURNING UP
- TEE, OUTLET UP
- TEE, OUTLET DOWN
- GATE VALVE
- BALL VALVE
- CHECK VALVE
- THERMOSTATIC MIXING VALVE
- PUMP
- PRESSURE REDUCING VALVE
- PRESSURE/TEMPERATURE RELIEF VALVE (PTRV)
- DOMESTIC COLD WATER
- DOMESTIC HOT WATER
- DOMESTIC HOT WATER RETURN
- WASTE BELOW SLAB
- VENT

- COMBINATION EMERGENCY SHOWER AND EYEWASH (WITH PRIVACY CURTAIN)
- EMERGENCY EYEWASH

ABBREVIATIONS

AFF	ABOVE FINISHED FLOOR
CLG	CEILING
CO	CLEANOUT
CONC	CONCRETE
CONT	CONTINUATION
CW	COLD WATER
CD	CONDENSATE DRAIN
DEG	DEGREE
DET	DETAIL
DIA	DIAMETER
DN	DOWN
EFF	EFFICIENCY
EL	ELEVATION
FC	FLEXIBLE CONNECTION
FFE	FINISHED FLOOR ELEVATION
FLEX	FLEXIBLE
FLR	FLOOR
FS	FLOOR SINK
GA	GAGE or GAUGE
GAL	GALLON
HP	HORSE POWER
HR	HOUR
HW	HOT WATER
KS	KITCHEN SINK
LAV	LAVATORY
MBH	(1000) BTU'S
MIN	MINIMUM
MS	MOP SINK
NTS	NOT TO SCALE
N/A	NOT APPLICABLE
OD	OUTSIDE DIAMETER
OPNG	OPENING
PH	PHASE
POC	POINT OF CONNECTION
PSIG	POUNDS PER SQUARE INCH (GAUGE)
PTRV	PRESSURE/TEMPERATURE RELIEF VALVE
RHW	RECIRCULATED HOT WATER
RM	ROOM
RPM	REVOLUTIONS PER MINUTE
SK	SINK
TEMP	TEMPERATURE
T STAT	THERMOSTAT
TYP	TYPICAL
U	URINAL
UTR	UP THRU ROOF
V	VOLT, VENT
VTR	VENT THROUGH ROOF
W	WATT, WASTE
W/	WITH
WC	WATER CLOSET
WG	WATER GAUGE
WT	WEIGHT

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SHEET TITLE: PLUMBING ABBREVIATIONS, SYMBOLS AND NOTES
PROJECT: SIXTH STREET PARK, ARTS AND RIVER CONNECTIVITY IMPROVEMENTS (PARC)
ADDRESS: SIXTH STREET OVER THE LOS ANGELES RIVER

GARY LEE MOORE, P.E., ENV SP — CITY ENGINEER — DATE:
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ENGINEER: KEN KULONIS
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DRAWN BY: KEN KULONIS
CHECKED BY: JASON ELFSSEL
APPROVED BY:

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REGISTERED PROFESSIONAL ENGINEER — KENNETH P. KULONIS — No. 27379 — Exp. 6-30-2023 — MECHANICAL — STATE OF CALIFORNIA

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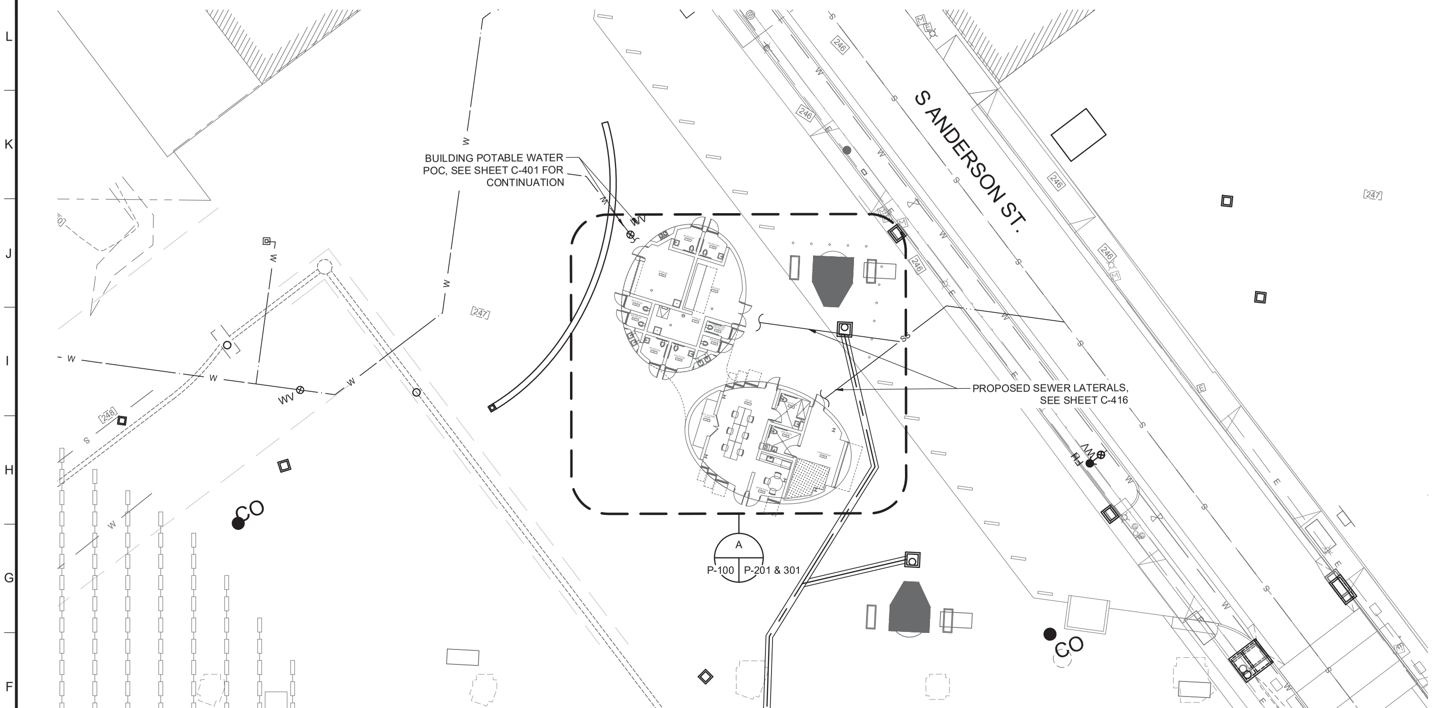

STAFF AND RESTROOM BULIDING SITE PLAN

SCALE: 1/16" = 1'-0"

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SHEET TITLE: PLUMBING SITE PLAN - STAFF & SHOP BUILDINGS
PROJECT: SIXTH STREET PARK, ARTS AND RIVER CONNECTIVITY IMPROVEMENTS (PARC)
ADDRESS: SIXTH STREET OVER THE LOS ANGELES RIVER

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BUILDING NO.

ENGINEERING — CITY OF LOS ANGELES

REVISION DATES (DESIGN STAGE ONLY)

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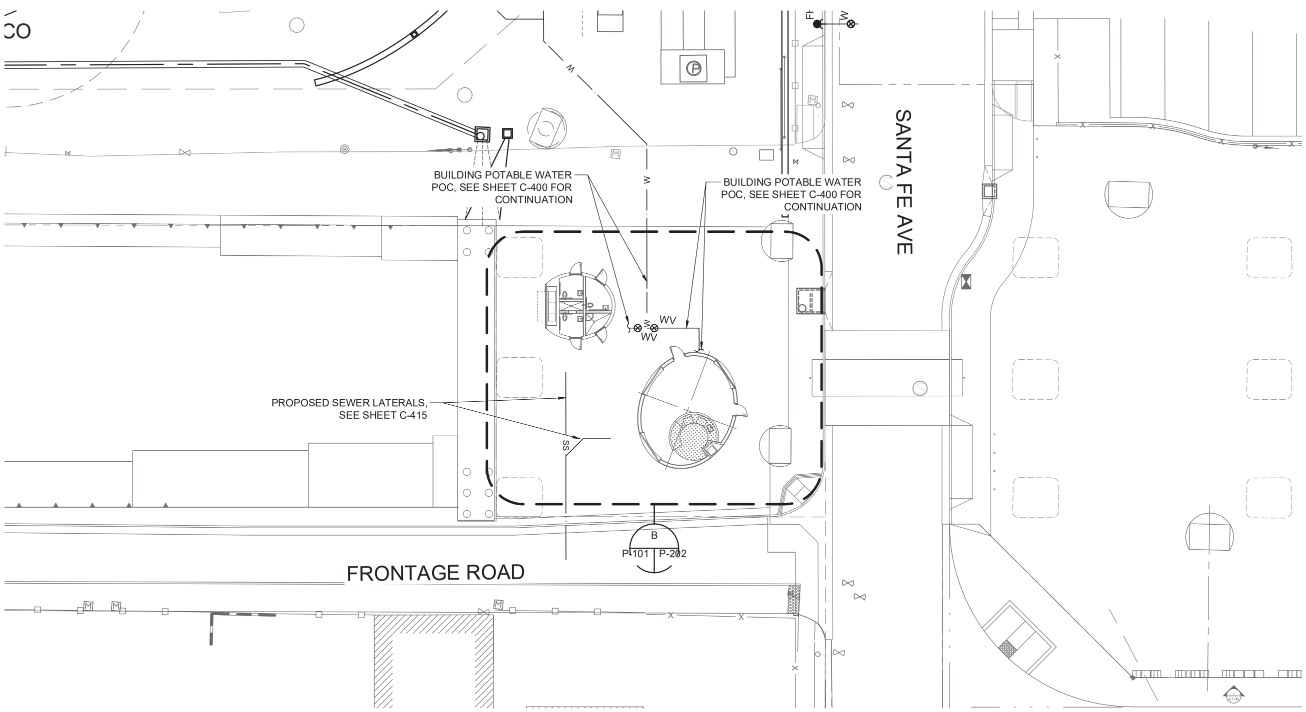

CAFE AND RESTROOM BULIDING SITE PLAN

GENERAL NOTES

1.

SCALE: 1/16" = 1'-0"

PLANS PREPARED BY:

TETRA TECH, INC.
350 SOUTH GRAND AVENUE, SUITE 3310
LOS ANGELES, CALIFORNIA 90071
Phone: (213) 279-3283

CITY OF LOS ANGELES · DEPARTMENT OF PUBLIC WORKS · BUREAU OF ENGINEERING

VERT. CONTROL: BM 12-04070, 1929 (NGVD29) - 1985 ADJUSTMENT
HORIZ. CONTROL: GPS; PID AE 1704, EPOCH 1991.35

SHEET TITLE: PLUMBING SITE PLAN CAFE AND RESTROOM BUILDINGS
PROJECT: SIXTH STREET PARK, ARTS AND RIVER CONNECTIVITY IMPROVEMENTS (PARC)
ADDRESS: SIXTH STREET OVER THE LOS ANGELES RIVER

GARY LEE MOORE, P.E., ENV SP — CITY ENGINEER
DESIGN GROUP
ENGINEER: KEN KULONIS — LIC. NO. M27379 — DATE:
DESIGNED BY: KEN KULONIS
DRAWN BY: KEN KULONIS
CHECKED BY: JASON EUSEBEL
APPROVED BY:

THIS PLAN WAS ELECTRONICALLY SIGNED AND STAMPED

REGISTERED PROFESSIONAL ENGINEER KENNETH P. KULONIS No. 27379 Exp. 6-30-2023 MECHANICAL STATE OF CALIFORNIA

NO.	REVISIONS:	DATE:	BY:

INDEX NO.

BUILDING NO.

ENGINEERING CITY OF LOS ANGELES

WORK ORDER NO. E700235D
FILE NO. --
DRAWING NO. P-101
SHEET 285 OF 295 SHEETS

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STAFF AND RESTROOM BUILDING FLOOR PLAN

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LOS ANGELES, CALIFORNIA 90071
Phone: (213) 279-3283

CITY OF LOS ANGELES — DEPARTMENT OF PUBLIC WORKS — BUREAU OF ENGINEERING

VERT. CONTROL: BM 12-04070, 1929 (NGVD29) - 1985 ADJUSTMENT
HORIZ. CONTROL: GPS; PID AE 1704, EPOCH 1991.35

SHEET TITLE: STAFF AND SHOP BUILDINGS WASTE & VENT FLOOR PLANS
PROJECT: SIXTH STREET PARK, ARTS AND RIVER CONNECTIVITY IMPROVEMENTS (PARC)
ADDRESS: SIXTH STREET OVER THE LOS ANGELES RIVER

WORK ORDER NO. E700235D
FILE NO. --
DRAWING NO. P-201
SHEET 286 OF SHEETS 295

GARY LEE MOORE, P.E., ENV SP — CITY ENGINEER
DESIGN GROUP
LIC. NO. M27379
DATE:
ENGINEER: KEN KULONIS
DESIGNED BY: KEN KULONIS
DRAWN BY: KEN KULONIS
CHECKED BY: JASON EUBBEL
APPROVED BY:

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REGISTERED PROFESSIONAL ENGINEER KENNETH P. KULONIS No. 27379 Exp. 6-30-2023 MECHANICAL STATE OF CALIFORNIA

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BUILDING NO.

ENGINEERING CITY OF LOS ANGELES

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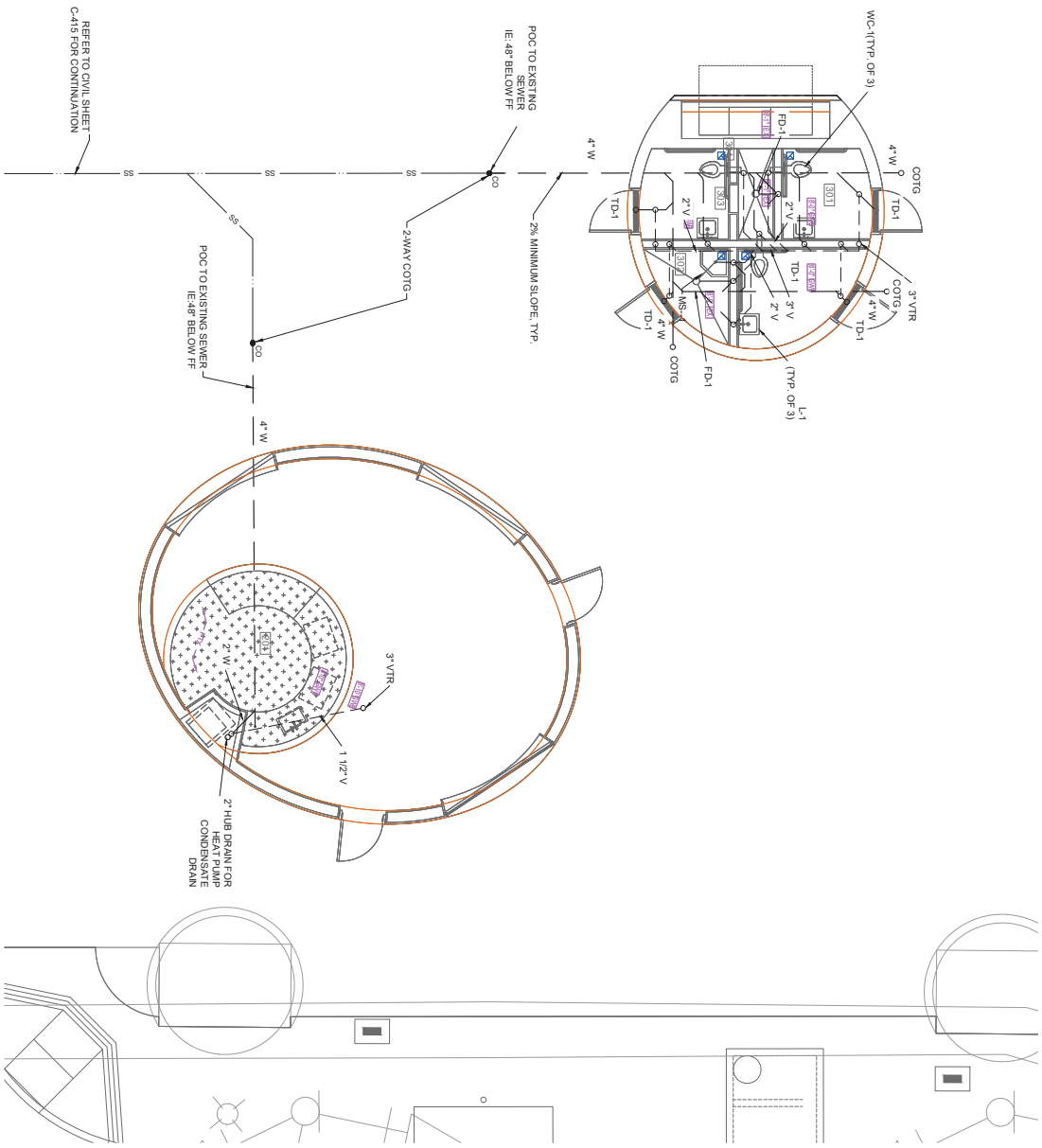

CAFE AND RESTROOM BUILDING FLOOR PLAN

SCALE: 1/4" = 1'-0"

PLANS PREPARED BY:

TETRA TECH, INC.
350 SOUTH GRAND AVENUE, SUITE 3310
LOS ANGELES, CALIFORNIA 90071
Phone: (213) 279-3283

CITY OF LOS ANGELES DEPARTMENT OF PUBLIC WORKS BUREAU OF ENGINEERING

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VERT. CONTROL: BM 12-04070, 1929 (NGVD29) - 1985 ADJUSTMENT
HORIZ. CONTROL: GPS, PID AE 1704, EPOCH 1991.35

SHEET TITLE: CAFE & RESTROOM BUILDING WASTE & VENT FLOOR PLANS
PROJECT: SIXTH STREET PARK, ARTS AND RIVER CONNECTIVITY IMPROVEMENTS (PARC)
ADDRESS: SIXTH STREET OVER THE LOS ANGELES RIVER

GARY LEE MOORE, P.E., ENV SP — CITY ENGINEER

DESIGN GROUP:	DATE:
ENGINEER: KEN KULONIS	LIC. NO. M27379
DESIGNED BY: KEN KULONIS	
DRAWN BY: KEN KULONIS	
CHECKED BY: KEN KULONIS	
APPROVED BY: JASON FUSSEL	

REGISTERED PROFESSIONAL ENGINEER — KEN KULONIS — No. 27379 — 5-31-2023

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INDEX NO.

BUILDING NO.

ENGINEERING — CITY OF LOS ANGELES

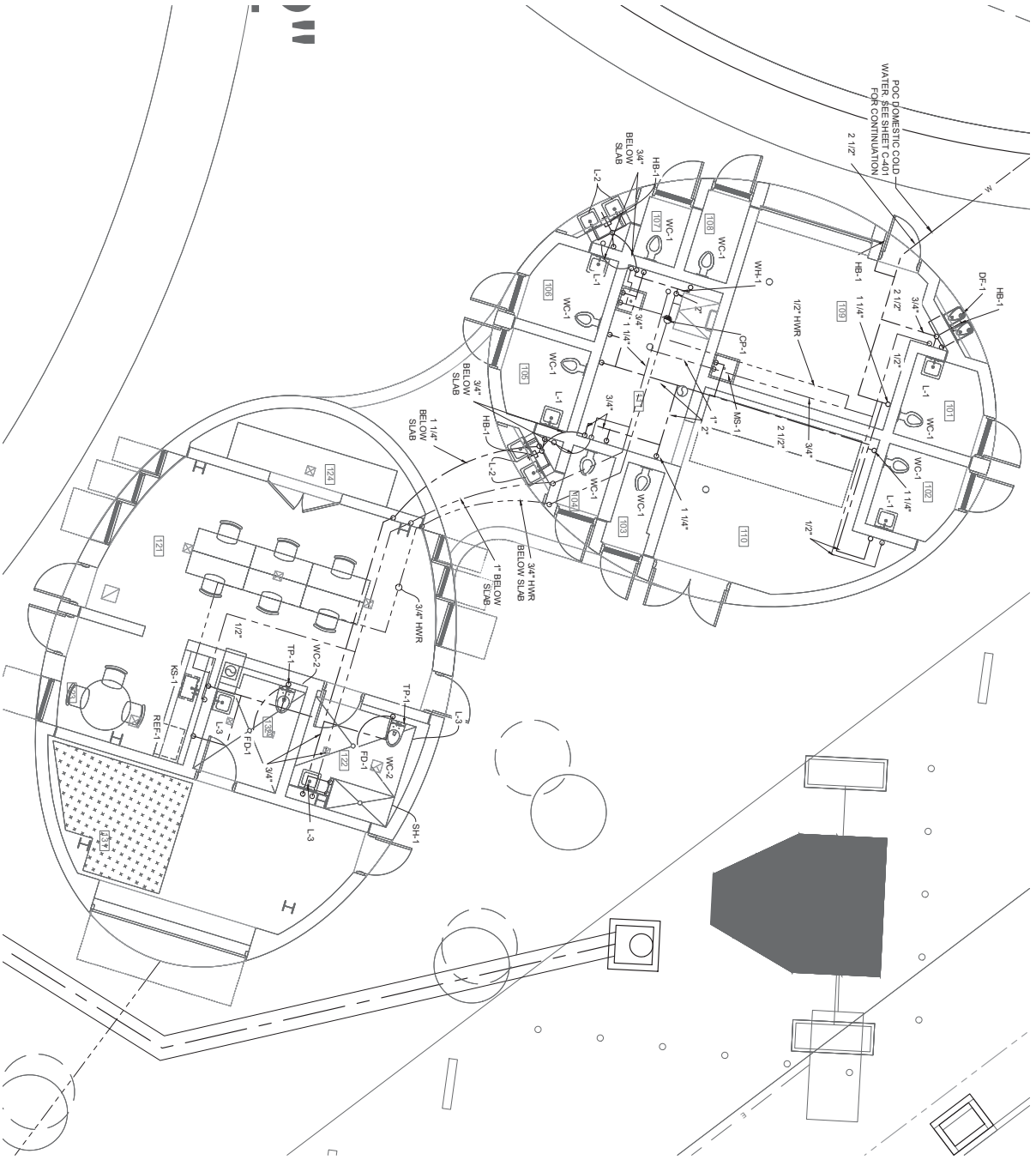
SHEET 287 OF 295 SHEETS — DRAWING NO. P-202

T.E.R. NO. –

WORK ORDER NO. E7002350

BID SET - NOT FOR CONSTRUCTION

STAFF AND RESTROOM BUILDING FLOOR PLAN



SCALE: 1/4" = 1'-0"

PLANS PREPARED BY:
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LOS ANGELES, CALIFORNIA 90071
Phone: (213) 279-3283

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VERT. CONTROL: BM 12-04070, 1929 (NGVD29) - 1985 ADJUSTMENT
HORIZ. CONTROL: GPS, PID AE 1704, EPOCH 1991.35

GARY LEE MOORE, P.E., ENV SP — CITY ENGINEER

DESIGN GROUP: | DATE:
ENGINEER: KEN KULONIS | LIC. NO. M27379
DESIGNED BY: KEN KULONIS
DRAWN BY: KEN KULONIS
CHECKED BY: JASON EUSSEL
APPROVED BY:

NO.	REVISIONS:	DATE:	BY:

INDEX NO.

BUILDING NO.

ENGINEERING — CITY OF LOS ANGELES

SHEET NO: P-301 — SHEET 288 OF 296 SHEETS

DRAWING NO.: –

T.E.R. NO.: –

WORK ORDER NO.: E7002350

SHEET TITLE: STAFF & SHOP BUILDINGS
DOMESTIC HOT & COLD WATER FLOOR PLANS

PROJECT: SIXTH STREET PARK, ARTS AND RIVER CONNECTIVITY IMPROVEMENTS (PARC)

ADDRESS: SIXTH STREET OVER THE LOS ANGELES RIVER

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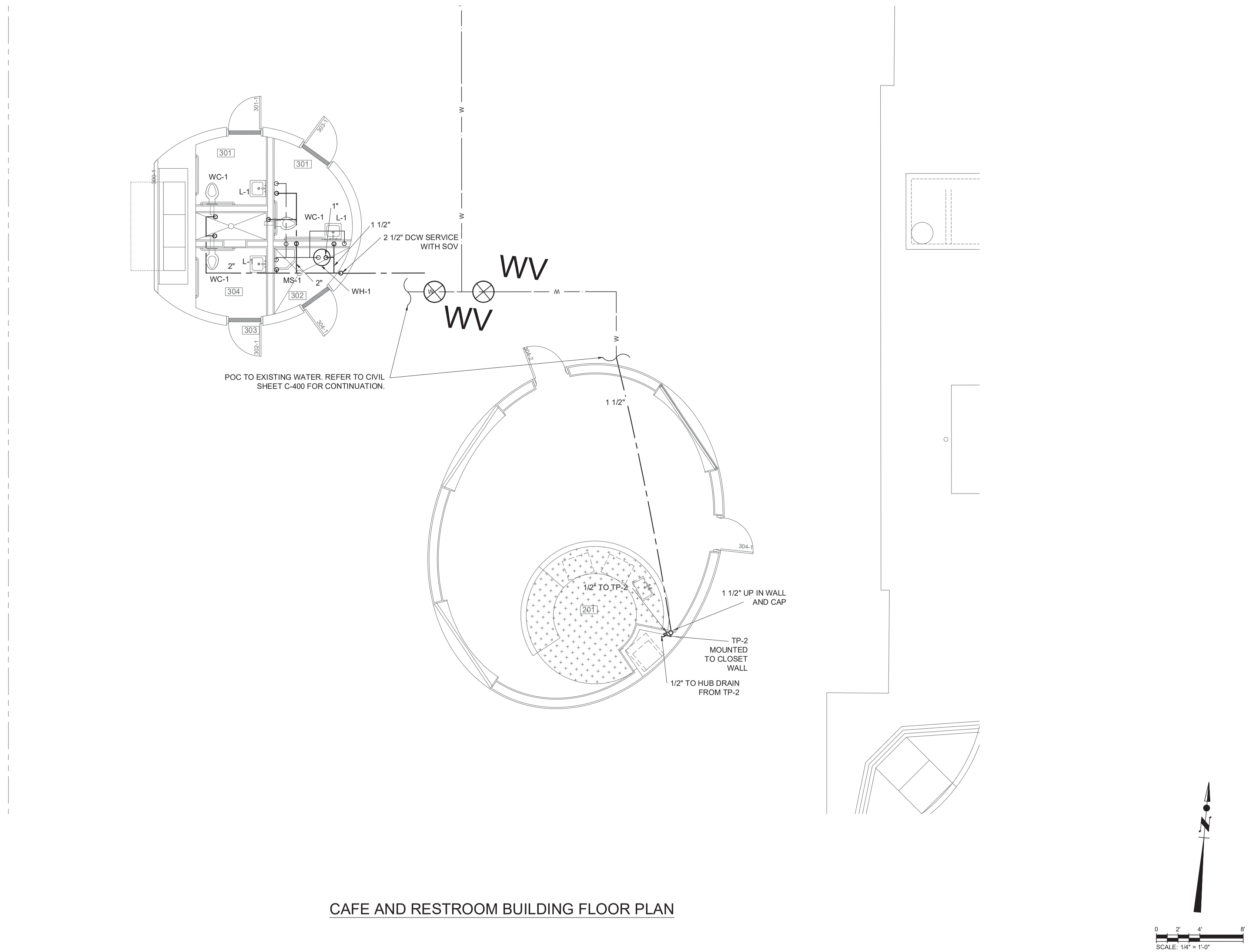

CAFE AND RESTROOM BUILDING FLOOR PLAN

PLANS PREPARED BY:

TETRA TECH, INC.
350 SOUTH GRAND AVENUE, SUITE 3310
LOS ANGELES, CALIFORNIA 90071
Phone: (213) 279-3283

CITY OF LOS ANGELES — DEPARTMENT OF PUBLIC WORKS — BUREAU OF ENGINEERING

VERT. CONTROL: BM 12-04070, 1929 (NGVD29) - 1985 ADJUSTMENT
HORIZ. CONTROL: GPS; PID AE 1704, EPOCH 1991.35

SHEET TITLE: CAFE & RESTROOM BUILDINGS DOMESTIC HOT & COLD WATER FLOOR PLANS

PROJECT: SIXTH STREET PARK, ARTS AND RIVER CONNECTIVITY IMPROVEMENTS (PARC)

ADDRESS: SIXTH STREET OVER THE LOS ANGELES RIVER

WORK ORDER NO. E700235D

FILE NO. --

DRAWING NO. P-302

SHEET 289 OF 295 SHEETS

GARY LEE MOORE, P.E., ENV SP — CITY ENGINEER

DESIGN GROUP — DATE:

ENGINEER: KEN KULONIS — LIC. NO. M27379

DESIGNED BY: KEN KULONIS

DRAWN BY: KEN KULONIS

CHECKED BY: JASON EUBSEL

APPROVED BY:

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REGISTERED PROFESSIONAL ENGINEER — KENNETH P. KULONIS — No. 27379 — Exp. 6-30-2023 — MECHANICAL — STATE OF CALIFORNIA

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BUILDING NO.

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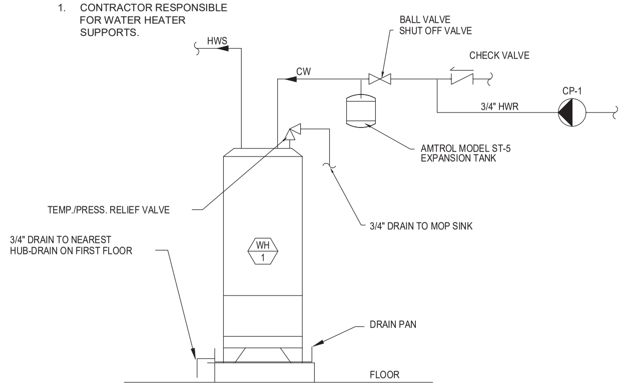
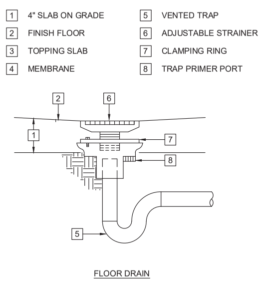
NOTES:

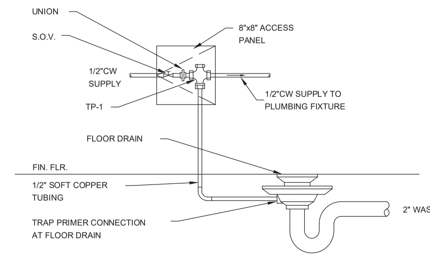
1. CONTRACTOR RESPONSIBLE FOR WATER HEATER SUPPORTS.



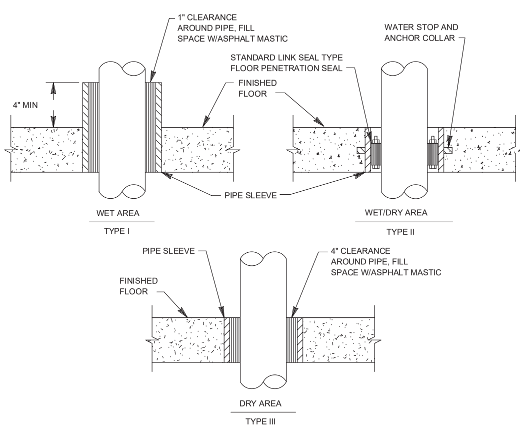
1 WATER HEATER DETAIL
VARIES P501 NOT TO SCALE



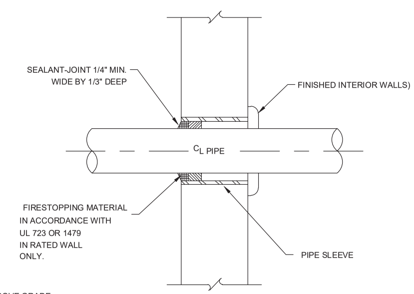
2 FLOOR/TRENCH DRAIN DETAIL
VARIES P501 NOT TO SCALE



3 TRAP PRIMER DETAIL
VARIES P501 NOT TO SCALE

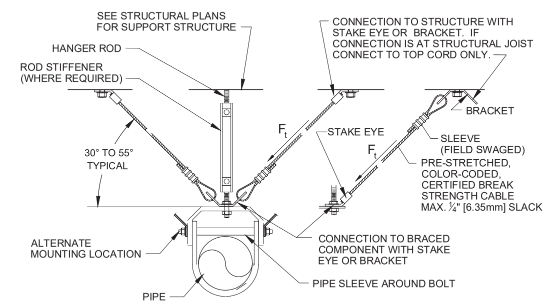


4 PIPE PENETRATION THRU WATERPROOF FLOOR
VARIES P501 NOT TO SCALE



NON-INSULATED, ABOVE GRADE

5 RATED/NON-RATED WALL PENETRATION DETAIL
VARIES P-501 NOT TO SCALE



NOTE:

1. CONTRACTOR IS RESPONSIBLE FOR DETERMINING LAYOUT, SPACING, AND ATTACHMENTS.

TYPICAL SEISMIC CABLE LAYOUT TRANSVERSE PIPE RESTRAINT

6 SEISMIC RESTRIANT DETAILS
VARIES M501 NOT TO SCALE

PLANS PREPARED BY:
TETRA TECH, INC.
350 SOUTH GRAND AVENUE, SUITE 3310
LOS ANGELES, CALIFORNIA 90071
Phone: (213) 279-3283

CITY OF LOS ANGELES — DEPARTMENT OF PUBLIC WORKS — BUREAU OF ENGINEERING

VERT. CONTROL: BM 12-04070, 1929 (NGVD29) - 1985 ADJUSTMENT
HORIZ. CONTROL: GPS; PID AE 1704, EPOCH 1991.35

SHEET TITLE: PLUMBING DETAILS

PROJECT: SIXTH STREET PARK, ARTS AND RIVER CONNECTIVITY IMPROVEMENTS (PARC)

ADDRESS: SIXTH STREET OVER THE LOS ANGELES RIVER

GARY LEE MOORE, P.E., ENV SP — CITY ENGINEER

DESIGN GROUP — LIC. NO. M27379 — DATE:

ENGINEER: KEN KULONIS
DESIGNED BY: KEN KULONIS
DRAWN BY: KEN KULONIS
CHECKED BY: JASON EUBSSEL
APPROVED BY:

THIS PLAN WAS ELECTRONICALLY SIGNED AND STAMPED

REGISTERED PROFESSIONAL ENGINEER — KENNETH P. KULONIS — No. 27379 — Exp. 6-30-2023 — MECHANICAL — STATE OF CALIFORNIA

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INDEX NO.

BUILDING NO.

ENGINEERING — CITY OF LOS ANGELES

WORK ORDER NO. E700235D
FILE NO. --
DRAWING NO. P-501
SHEET 290 OF 295 SHEETS

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FIXTURE SCHEDULE

ITEM	FIXTURE*	ROUGH-IN CONNECTIONS: WASTE	TRAP	VENT	COLD WATER	HOT WATER	REMARKS
WC-1	WATER CLOSET	4"	INT	2"	1"	-	WALL MOUNTED DUAL FLUSH, 1.6/1.1 GPF. ELECTRONIC FLUSH VALVE. ZURN MODEL Z1201-N_4 CARRIER, ADA APPROVED
WC-2	WATER CLOSET	4"	INT	2"	1"	-	FLOOR MOUNTED DUAL FLUSH, 1.6/1.1 GPF. TANK TYPE. MOUNT AT ADA APPROVED HEIGHT.
MS-1	MOP SINK	3"	3"	2"	3/4"	3/4"	FLOOR MOUNTED, TERRAZZO. 24 x 24 x 12 DEEP. PROVIDE YOKE UTILITY FAUCET WITH VACUUM BREAKER
L-1	LAVATORY	1 1/2"	1 1/2"	1 1/2"	1/2"	1/2"	AMER. STD. MODEL 0440.444EC, W/ DELTA MODEL 2529LF-HDF FAUCET, WITH GRID DRAIN
L-2	LAVATORY	1 1/2"	1 1/2"	1 1/2"	1/2"	1/2"	AMER. STD. MODEL 0440.444EC, W/ DELTA MODEL 2529LF-HDF FAUCET, WITH GRID DRAIN
L-3	LAVATORY	1 1/2"	1 1/2"	1 1/2"	1/2"	1/2"	AMER. STD. MODEL 0440.444EC, W/ DELTA MODEL 2529LF-HDF FAUCET, WITH GRID DRAIN
SH-1	SHOWER	2"	1 1/2"	1 1/2"	1/2"	1/2"	FD-1 DRAIN WITH LEVER LANDLE BALANCE PRESSURE VALVE.
KS-1	KITCHEN SINK	2"	1 1/2"	1 1/2"	1/2"	1/2"	JUST MODEL SLF-1921-A-GR 18 GA. TYPE 304 STAINLESS STEEL SELF RIMMING 21 X 19 SINGLE COMPARTMENT SINK WITH JUST MODEL JRL1191 FAUCET AND HOSE SPRAY, COMPLETE WITH CUP STRAINER.
TD-1	TRENCH DRAIN	2"	2"	1 1/2"	-	-	J.R. SMITH MODEL270 CAST IRON 36" LONG.
FD-1	FLOOR DRAIN	2"	2"	1 1/2"	-	-	J.R. SMITH MODEL 2005 W/ ROUND NICKLE BRONZE GRATE, AND TRAP PRIMER CONNECTION.
RD/ OD-1	ROOF DRAIN/ OVERFLOW DRAIN	3"*	-	-	-	-	JR SMITH DRAIN MODEL 1800 RD/OD COMBO.
HB-1	HOSE BIBB	-	-	-	3/4"	-	WOODFORD MODEL 24 PROVIDE VACUUM BREAKER
DF-1	DRINKING FOUNTAIN	-	-	-	3/4"	-	

* PIPE TO STORM DRAIN

PIPE SCHEDULE

AG: ABOVE GRADE
BG: BELOW GRADE

SERVICES		PIPE MATERIALS: C.I. NO-HUB	C.I. HUB & SPIGOT	PVC SCH. 40	INDUSTRIAL APH	SCH 40 BLACK STEEL	SCH 80 GALV. STEEL	COPPER TYPE "K"	COPPER TYPE "L"	COPPER TYPE "M"	STAINLESS STEEL (304)	REMARKS
COLD WATER	AG								●			
	BG							●				(1)
WASTE (DOMESTIC)	AG			●								
	BG			●								
VENT	AG			●								
	BG			●								
INDIRECT WASTE	AG			●								
	BG											
HOT WATER	AG								●			
	BG											

(1) PROVIDE 6 MIL POLYETHYLENE PIPE SLEEVE. SLEEVE COLOR TO BE BLUE.

EQUIPMENT SCHEDULE

WH-1	WATER HEATER	A.O. SMITH PRO-LINE MODEL ENT-40, 21 GPH RECOVERY @ 90° RISE, 40 GALLON STORAGE, 53 GALLON FIRST HOUR RATING, 4500 WATT INPUT, 208 V. -1Ø ELECTRICAL CIRCUIT
CP-1	CIRC PUMP	TACO MODEL 007-FS, 5 GPM @ 9 FT. 1/25 HP, 120 V.-1Ø
WHA-1	WATER HAMMER ARRESTOR	PPP MODEL SC-500A W/ACCESS PANEL
TP-1	TRAP PRIMER	PPP MODEL CPO-500 W/ACCESS PANEL
TP-2	TRAP PRIMER	PPP MODEL MPB-500 W/ACCESS PANEL. 115V.-1Ø, 2 AMPS.
TMV-1	THERMOSTATIC MIXING VALVE	LEONARD MODEL TM-186-20015020-PRV-RF-STSTL-REC MIN FLOW 1 GPM, MAX FLOW 350 GPM. PRESSURE DROP 5 PSI @ 160 GPM.

PLANS PREPARED BY:
TETRA TECH, INC.
350 SOUTH GRAND AVENUE, SUITE 3310
LOS ANGELES, CALIFORNIA 90071
Phone: (213) 279-3283

CITY OF LOS ANGELES — DEPARTMENT OF PUBLIC WORKS — BUREAU OF ENGINEERING

VERT. CONTROL: BM 12-04070, 1929 (NGVD29) - 1985 ADJUSTMENT
HORIZ. CONTROL: GPS; PID AE 1704, EPOCH 1991.35

SHEET TITLE: PLUMBING SCHEDULES
PROJECT: SIXTH STREET PARK, ARTS AND RIVER CONNECTIVITY IMPROVEMENTS (PARC)
ADDRESS: SIXTH STREET OVER THE LOS ANGELES RIVER

WORK ORDER NO. E700235D
FILE NO. --
DRAWING NO. P-601
SHEET 291 OF 295 SHEETS

GARY LEE MOORE, P.E., ENV SP — CITY ENGINEER
DESIGN GROUP
ENGINEER: KEN KULONIS
DESIGNED BY: KEN KULONIS
DRAWN BY: KEN KULONIS
CHECKED BY: JASON EUSSEL
APPROVED BY:
LIC. NO. M27379
DATE:

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REGISTERED PROFESSIONAL ENGINEER KENNETH P. KULONIS No. 27379 Exp. 6-30-2023 MECHANICAL STATE OF CALIFORNIA

NO. REVISIONS: DATE: BY:
INDEX NO.
BUILDING NO.

ENGINEERING CITY OF LOS ANGELES

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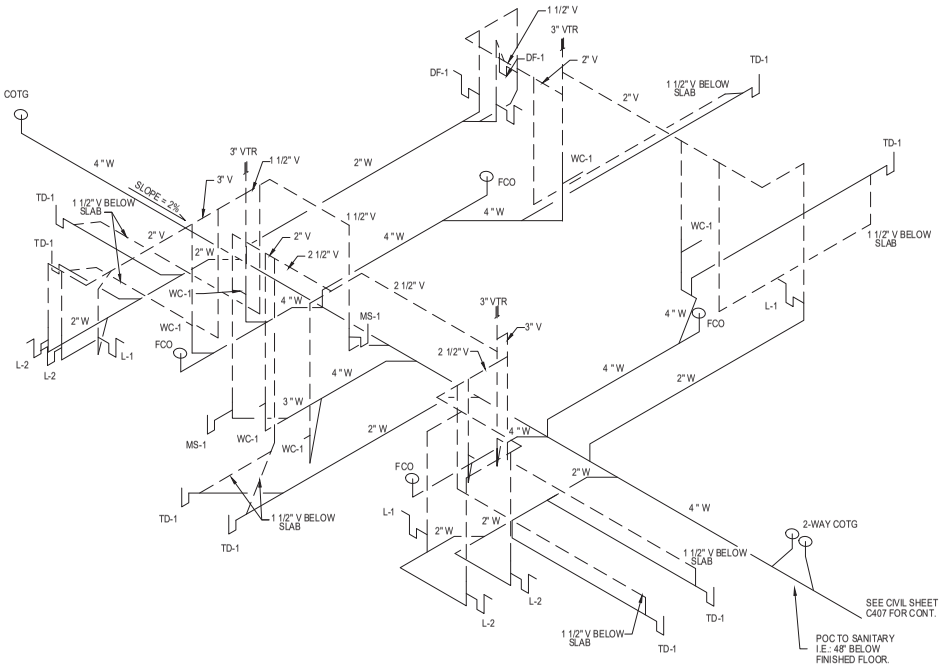
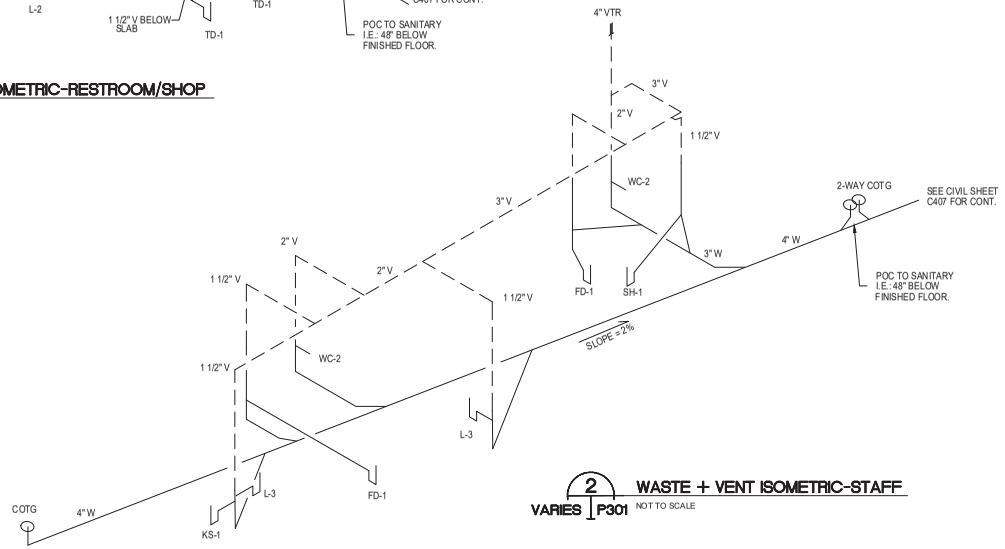


1 WASTE + VENT ISOMETRIC-RESTROOM/SHOP
VARIES | P301 NOT TO SCALE



2 WASTE + VENT ISOMETRIC-STAFF
VARIES | P301 NOT TO SCALE

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ENGINEER:	KENEN KILONIS	DESIGN SUP:	DATE:
DESIGNED BY:	KENEN KILONIS	LIC. NO.	M27379
DRAWN BY:	KENEN KILONIS		
CHECKED BY:	JARSON E. RUSSELL		
APPROVED BY:			

SHEET TITLE: WASTE & VENT ISOMETRIC-STAFF

PROJECT: SIXTH STREET PARK, ARTS AND RIVER CONNECTIVITY IMPROVEMENTS (PARC)

ADDRESS: SIXTH STREET OVER THE LOS ANGELES RIVER

WORK ORDER NO. E700235D

FILE NO. –

DRAWING NO. P-901

SHEET 292 OF 295 SHEETS

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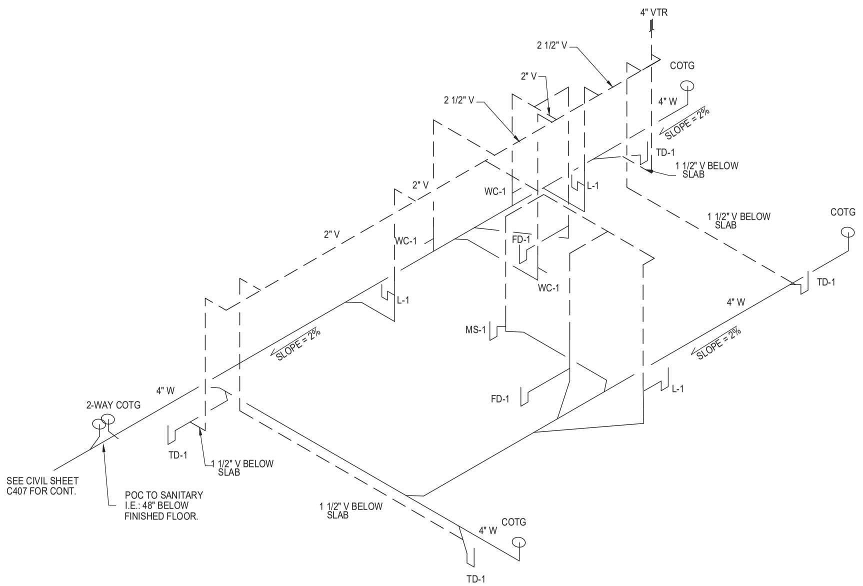
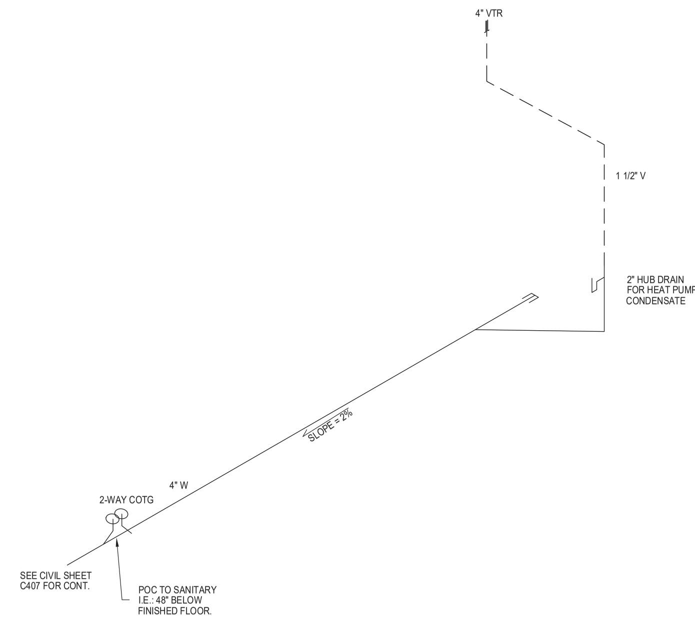


1 WASTE + VENT ISOMETRIC-RESTROOM
VARIES | P202 NOT TO SCALE



2 WASTE + VENT ISOMETRIC-CAFE'
VARIES | P202 NOT TO SCALE

PLANS PREPARED BY:
TETRA TECH, INC.
350 SOUTH GRAND AVENUE, SUITE 3310
LOS ANGELES, CALIFORNIA 90071
Phone: (213) 279-3283

CITY OF LOS ANGELES — DEPARTMENT OF PUBLIC WORKS — BUREAU OF ENGINEERING

VERT. CONTROL: BM 12-04070, 1929 (NGVD29) - 1985 ADJUSTMENT
HORIZ. CONTROL: GPS: PID AE 1704, EPOCH 1991.35

SHEET TITLE: WASTE & VENT ISOMETRIC-CAFE/RR
PROJECT: SIXTH STREET PARK, ARTS AND RIVER CONNECTIVITY IMPROVEMENTS (PARC)
ADDRESS: SIXTH STREET OVER THE LOS ANGELES RIVER

GARY LEE MOORE, P.E., ENV SP — CITY ENGINEER
DESIGN GROUP — DATE:
ENGINEER: KEN KULONIS — LIC. NO. M27379
DESIGNED BY: KEN KULONIS
DRAWN BY: KEN KULONIS
CHECKED BY: JASON EUSSEL
APPROVED BY:

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REGISTERED PROFESSIONAL ENGINEER — KENNETH P. KULONIS — No. 27379 — Exp. 6-30-2023 — MECHANICAL — STATE OF CALIFORNIA

NO. | REVISIONS: | DATE | BY:

INDEX NO.
BUILDING NO.

ENGINEERING — CITY OF LOS ANGELES

WORK ORDER NO. E700235D
FILE NO. --
DRAWING NO. P-902
SHEET 293 OF 295 SHEETS

7/8/2022 7:20:30 PM - C:\USERS\KEN.KULONIS\DESKTOP\PARC\CAD\SHEETFILES\P-902_CAFE-RR W&V ISOMETRICS - TT.DWG - KULONIS, KEN

REVISION DATES (DESIGN STAGE ONLY)

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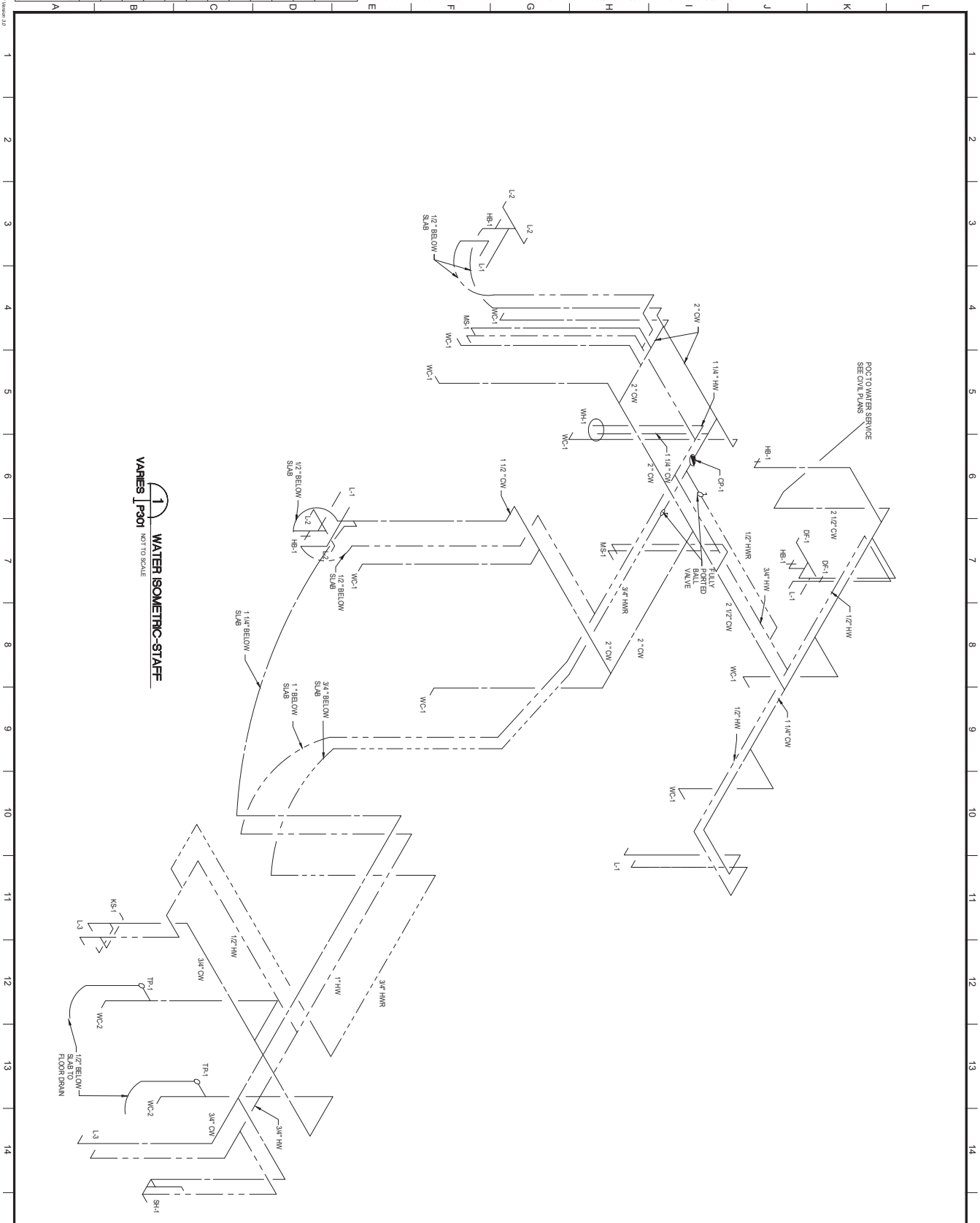

PLANS PREPARED BY:

TETRA TECH, INC.
350 SOUTH GRAND AVENUE, SUITE 3310
LOS ANGELES, CALIFORNIA 90071
Phone: (213) 279-3283

CITY OF LOS ANGELES — DEPARTMENT OF PUBLIC WORKS — BUREAU OF ENGINEERING

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VERT. CONTROL: BM 12-04070, 1929 (NGVD29) - 1985 ADJUSTMENT
HORIZ. CONTROL: GPS; PID AE 1704, EPOCH 1991.35

SHEET TITLE: WATER ISOMETRIC-STAFF

PROJECT: SIXTH STREET PARK, ARTS AND RIVER CONNECTIVITY IMPROVEMENTS (PARC)

ADDRESS: SIXTH STREET OVER THE LOS ANGELES RIVER

GARY LEE MOORE, P.E., ENV SP — CITY ENGINEER

DESIGN GROUP:	DATE:
ENGINEER: KEN KULONIS	LIC. NO. M27379
DESIGNED BY: KEN KULONIS	
DRAWN BY: KEN KULONIS	
CHECKED BY: JASON RUSSEL	
APPROVED BY:	

NO.	REVISIONS:	DATE:	BY:

INDEX NO.

BUILDING NO.

ENGINEERING — CITY OF LOS ANGELES

SHEET 294 OF 295 SHEETS — T.I.E.R. NO. – — DRAWING NO. P-903 — WORK ORDER NO. E7002350

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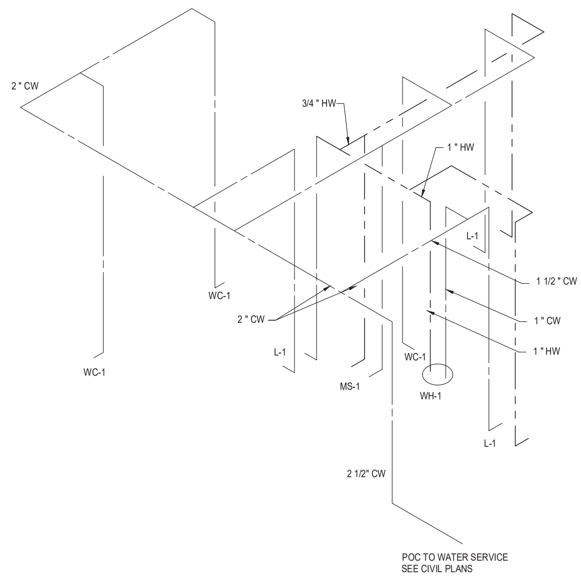
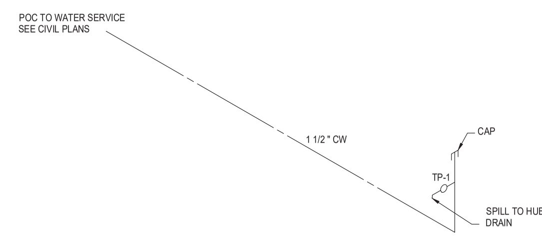


1 WATER ISOMETRIC-RESTROOM
VARIES P302 NOT TO SCALE



2 WATER ISOMETRIC-CAFE
VARIES P302 NOT TO SCALE

PLANS PREPARED BY:
TETRA TECH, INC.
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CITY OF LOS ANGELES DEPARTMENT OF PUBLIC WORKS BUREAU OF ENGINEERING

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SHEET TITLE: WATER ISOMETRIC-RR/CAFE

PROJECT: SIXTH STREET PARK, ARTS AND RIVER CONNECTIVITY IMPROVEMENTS (PARC)

ADDRESS: SIXTH STREET OVER THE LOS ANGELES RIVER

WORK ORDER NO. E700235D
FILE NO. --
DRAWING NO. P-904
SHEET 295 OF 295 SHEETS

GARY LEE MOORE, P.E., ENV SP CITY ENGINEER
DESIGN GROUP
DATE:
LIC. NO. M27379
ENGINEER: KEN KULONIS
DESIGNED BY: KEN KULONIS
DRAWN BY: KEN KULONIS
CHECKED BY: JASON EUSSEL
APPROVED BY:

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REGISTERED PROFESSIONAL ENGINEER KENNETH P. KULONIS No. 27379 Exp. 6-30-2023 MECHANICAL STATE OF CALIFORNIA

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ENGINEERING CITY OF LOS ANGELES

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