APPROVED
June 16 2022
BOARD OF RECREATION
AND PARK COMMISSIONERS

BOARD REPORT **NO.** 22-159

DATE June 16, 2022 C.D. 9

BOARD OF RECREATION AND PARK COMMISSIONERS

SUBJECT: 50 PARKS INITIATIVE – NEVIN AVENUE PARK – NEW PARK DEVELOPMENT (PRJ20833) PROJECT – ALLOCATION OF CAPITAL B FUNDS – CATEGORICAL EXEMPTION FROM THE PROVISIONS OF THE CALIFORNIA ENVIRONMENTAL QUALITY ACT (CEQA) PURSUANT ARTICLE 19, SECTION 15332 OF CALIFORNIA CEQA GUIDELINES

AP Diaz		M. Rudnick	
H. Fujita		fur* C. Santo Domingo	DF
J. Kim		N. Williams	

M. Rudnick
General Manager

Approved X Disapproved _____ Withdrawn _____

RECOMMENDATIONS

1. Approve the final plans and specifications substantially in the form on file in the Board of Recreation and Park Commissioners' (Board) Office and as attached to this Report as Attachment 1, for the proposed Nevin Ave Park - New Park Development (PRJ20833) Project (Project);

2. Approve the revised scope of work and total budget for the construction of the Project, as described in the Summary of the Report;

3. Authorize the Department of Recreation and Parks (RAP) to allocate and use One Million, Five Hundred Sixty-One Thousand, One Hundred Dollars ($1,561,100.00) in Capital B Funds (Fund 302, Department 89, Account No. 89270K-CG) for the proposed Project;

4. Approve the Project to be bid and constructed through RAP's list of pre-qualified on-call contractors;

5. Approve the authorization of change orders as authorized under Report No. 06-136, for the construction contracts for this Project in the budget contingency amounts for such contracts as stated in this Report;

6. Determine that the Project is categorically exempt from the provisions of the California Environmental Quality Act (CEQA) pursuant Article 19, Section 15332 of California CEQA Guidelines and direct staff to file a Notice of Exemption (NOE) with the Los Angeles County Clerk;

7. Authorize the RAP's Chief Accounting Employee or designee to prepare a check to the Los Angeles County Clerk in the amount of Seventy-Five Dollars ($75.00) for the purpose of filing a NOE; and,

8. Authorize RAP's Chief Accounting Employee to make technical corrections as necessary to carry out the intent of this Report.

SUMMARY

THE 50 PARKS INITIATIVE

In recognition of the need to develop a coordinated long-term strategy to meet the recreation and park needs of current and future residents of the City of Los Angeles, RAP launched an initiative to acquire at least fifty (50) sites and develop them into new public parks -- The Fifty Parks Initiative. The primary goal of the initiative is to increase the number of parks and facilities across the City of Los Angeles (City) with a specific focus on densely populated neighborhoods and communities that lack sufficient open space and recreational services. RAP will continue with the Fifty Parks Goals of acquiring and building new parks in those areas that lack parks beyond the Fifty Parks Initiative as there is continued need for more parks throughout the City of Los Angeles.

Previously, the Board authorized the acquisition of 0.26 acres of land located 1527 & 1531 East 32nd Street (Property) for the development of a neighborhood park (Nevin Avenue Park) in an area where City residents do not have sufficient access to improved green spaces or neighborhood parks (Report No.16-171). Acquisition of the site was completed in June 2017. Approximately 6,272 residents live within one half- mile walking distance of the proposed Nevin Avenue Park.

NEVIN AVENUE PARK ENVIRONMENTAL ISSUES

The Nevin Avenue Park site is the site of a former plating facility that was owned by the Renu Plating Company (Renu) from 1955 to 1984. The operation of metal plating and cleaning included the use of surfactants, acids, alkalines, base metals, cyanide and water baths. The use of these products in the plating process resulted in major wastes from cyanide contaminated, high pH metallic sludges and rinse waters. Over the years, the site was cited for numerous violations, one of which occurred on January 11, 1983, where Renu was cited by the Los Angeles County Sanitation District for excessive free cyanide in its wastewater.

Several site investigations completed from 2004 to 2007 detected soil contamination with cadmium, copper, nickel, lead and zinc. Reports also show soil gas contained volatile organic compounds. A removal action workplan (RAW), was completed and implemented under the direction of California Department of Toxic Substances Control (DTSC). A Notice of Exemption (NOE) for the RAW was filed with the State Clearinghouse on 1/14/2010 and the RAW was completed by March 2010. An existing building was removed and 450 cubic yards of soil contaminated with heavy metals were also hauled away. After the remediation was completed, DTSC issued a certification letter, stating that the risks and hazards related to the contaminants

recorded on the property were unacceptable for unrestricted use, but acceptable for commercial or industrial site development. A Covenant to Restrict the Use of Property was recorded with the County of Los Angeles on October 20, 2011. The covenant restricted the use of the property and prohibited uses such as (a) residence; (b) hospital for humans; (c) public or private school for persons under 21 years of age; and (d) day care center for children. It also included the mandate to submit a Soil Management Plan to DTSC for approval in case of any activity involving soil disturbance, and appropriate management of contaminated soil resulting for any such activity.

RAP purchased the Property on January 17, 2017 with the intent of building the proposed Nevin Avenue Park. The DTSC agreed to the property transfer and mandated that RAP demolish the building extant on the Property and submit a Soil Management Plan (SMP) to remove the 2 top feet of soil of the entire area and refill with clean soil. In 2018, RAP demolished the existing building. The DTSC approved the SMP on March 1, 2021 and filed a NOE with the State Clearinghouse on April 12, 2021.

In October 2019, the State Water Control Board (SWCB) issued order WQ 2019-0045-DWQ. The order mandated that a number of California industrial sites that had handled materials suspected of containing PFAS[a] submit a technical report. Since the proposed Project site is a former plating site, RAP submitted the required technical report to the Los Angeles Regional Water Quality Control Board (LARWQCB) on March 2020. As instructed by order WQ 2019-0045-DWQ, the technical report included a description of how hypothetical potential PFAS-containing material was handled and a sampling plan that identified areas where soil could be sampled and analyzed to ascertain whether it is contaminated. The LARWQCB approved the plan in March 2021 and, after reviewing the results of multiple rounds of soil sampling campaigns, issued a satisfaction letter in March 2022, stating that RAP had complied with all the requirements put forward by order WQ 2019-0045-DWQ.

To date the environmental regulatory challenges posed by the previous uses of the Property have been addressed, and RAP is able to proceed with the Project.

[a] Polyfluoroalkyl substances (PFAS) is a family of more than 3,000 man-made and mostly unregulated chemicals that have been produced since the mid-1900s. They are mobile, persistent, and bioaccumulative. They are resistant to degradation in the environment and when degradation occurs, it often results in the formation of other PFAS compounds. According to Environmental Protection Agency (EPA), exposure to PFAS may result in adverse health effects, including developmental effects to fetuses during pregnancy or to breastfed infants (e.g., low birth weight, accelerated puberty, skeletal variations), cancer (e.g., testicular, kidney), liver effects (e.g., tissue damage), immune effects (e.g., antibody production and immunity), thyroid effects and other effects (e.g., cholesterol changes). Historically, fume suppressants used in chrome plating operations often contained PFAS as an active ingredient.

PROJECT SCOPE

The Project will create the new Nevin Avenue Park in the City of Los Angeles through development of the Property into a park. It will include the construction of a new entry plaza and picnic area, children's playground with resilient surfacing, fitness zone with resilient surfacing, interactive plant garden, walking trails, and outdoor learning area.

The specific scope of work for the proposed Project will include:

- Removal and replacement of the top two (2) feet of soil per the Soil Management Plan.
- Obtain all necessary permits.
- Installation of Play Equipment and Resilient Surfacing.
- Installation of Fitness Equipment and Resilient Surfacing
- Installation of new hardscape, irrigation, and planting.
- Installation of new decorative fencing.
- Installation of new sump and drainage system.
- New site amenities, benches, tables, trash receptacles, and hydration station.
- The purchase and installation of shade structures.
- Other related improvements.

The current cost estimate for the construction of the Project is One Million, Five Hundred Seventy Thousand Dollars ($1,570,000.00)

Site plans and project renderings are attached to this Report as Attachment 1. The Soil Management Plan is attached to this Report as Attachment 2.

PROJECT FUNDING

Previously, RAP was awarded $2,898,340.00 in Proposition 84 Statewide Park and Community Revitalization Program Round 1 (Prop 84) funds for the acquisition and development of Nevin Avenue Park (Report No. 12-225). Thus far, Prop 84 funds have paid for the acquisition and remediation of the Property. There are approximately One Million, Five Hundred Eight Thousand, One Hundred Sixty-Four Dollars and Twenty-Four Cents ($1,508,164.24) remaining for the construction of the proposed Project.

Upon approval of this Report, One Million, Two Hundred Seventy-Three Thousand, Three Hundred Fifty-Four Dollars and Six Cents ($1,273,354.06) in Capital B Funds can be used for the construction of the proposed Project.

The total available funding for construction of this Project will be approximately Two Million, Seven Hundred Eighty-One Thousand, Five Hundred Eighteen Dollars and Thirty Cents ($2,781,518.30), which is the total budget for the construction of this Project, inclusive of the budget contingency amount set forth below.

The anticipated pre-qualified on-call contracts for construction of this Project will be for Park Facility Construction. The budget contingency for the Park Facility Construction contracts will be Two Hundred Fifty Thousand Dollars ($250,000.00).

FUNDING SOURCE MATRIX

Source	**Fund/Dept/Acct**	**Amount**	**Percentage**
Capital B Funds	302/89/89270K-CG	$1,273,354.06	46%
Proposition 84 Statewide Park and Community Revitalization Program	205/89/89KOA8	$1,508,164.24	54%
Total		**$2,781,518.30**	**100%**

PROJECT CONSTRUCTION

RAP Staff has determined that sufficient funding has been identified and construction of the proposed Project is anticipated to begin in Summer 2023.

TREES AND SHADE

There are 29 new trees proposed as part of the Project as well as overhead structures that will also serve at shade structures. The species of the trees are Red Oaks, Jacaranda, Palo Verde “Thornless,” and California Bay trees.

ENVIRONMENTAL IMPACT STATEMENT

The proposed Project consists of an infill development.

It is consistent with the applicable general plan designation and all applicable general plan policies as well as with applicable zoning designation and regulation; it occurs within city limits on a project site of no more than five acres, substantially surrounded by urban uses; the proposed Project site has no value as habitat for endangered, rare, or threatened species; its approval would not result in any significant effects relating to traffic, noise, air quality, or water quality; and the site can be adequately served by all required utilities and public services.

As of April 26, 2022 the State Department of Toxic Substances Control (DTSC) (Envirostor at www.envirostor.dtsc.ca.gov) has listed the Project site with #19340643. The site has been remediated and the activities included in the project description will follow the protocols and procedures for development required in the Land Use Covenant.

According to the Caltrans Scenic Highway Map there is no scenic highway located within the vicinity of the project or within the project site. Furthermore, the project is not located in proximity of a known historical resources and will not cause a substantial adverse change in the significance of a historical, archaeological and resource.

Based on this information, RAP staff recommends that the Board determines that it is categorically exempt from the provisions of the California Environmental Quality Act (CEQA) pursuant to Article 19, Section 15332 of California CEQA Guidelines. Staff will file a Notice of Exemption with the Los Angeles County Clerk upon Board's approval.

FISCAL IMPACT STATEMENT

The approval of this use of Capital B Funds will have no fiscal impact on RAP.

The estimated costs for the design, development, and construction of the proposed park improvements are anticipated to be funded by Prop 84, Capital B or funding sources other than the RAP's General fund. The maintenance of the proposed park improvements can be performed by current staff with no overall impact to existing maintenance service at this facility.

Approval of this Board Report advances RAP's Strategic Plan by supporting:

Goal No. 1: Provide Safe and Accessible Parks
Outcome No. 2: All parks are safe and welcoming

Result: The new park development will enhance the park users' experience.

This Report was prepared by Ligaya Khennavong, Management Assistant, Planning, Construction and Maintenance Branch.

LIST OF ATTACHMENTS

1) Rendering of proposed Nevin Avenue Park
2) Soil Management Plan

PRODUCED BY AN AUTODESK STUDENT VERSION

ATTACHMENT 1

DEPARTMENT OF RECREATION AND PARKS
CITY OF LOS ANGELES

NEVIN AVENUE PARK

CONSTRUCTION DOCUMENTS FOR NEW PARK PRJ#20833

DIGALERT
Call Toll Free
1-800-227-2600
TWO WORKING DAYS BEFORE YOU DIG
Underground Service Alert of Southern California

PROJECT DESCRIPTION

THE SCOPE OF WORK CONSISTS OF (but not limited to):

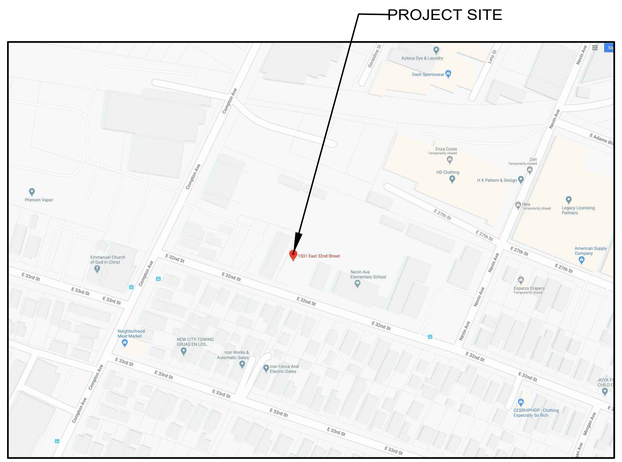
1. 2-WIRE SMART IRRIGATION SYSTEM
2. NEW LANDSCAPING
3. HARDSCAPE PAVING AND WALLS. WILL BE RESPONSIBLE FOR PLAY PIT SUB SLAB AND FITNESS SUBSLAB
4. NEW FENCING
5. NEW TRASH CANS, DRINKING FOUNTAIN, TABLES AND BENCHS
6. SUMPS AND DRAINAGE
7. GRADING REMOVAL AND REPLACEMENT OF THE TOP 2'OF SOIL PER SMP (PROVIDED)
8. OBTAIN ALL NECESSARY PERMITS FOR GRADING

NOT RESPONSIBLE FOR: PURCHASE AND INSTALLATION OF SHADE STRUCTURES, PLAY AND FITNESS EQUIPMENT.

NEVIN AVENUE PARK PLAN

N SCALE:1-20

INDEX OF SHEETS



VICINITY MAP
NOT TO SCALE

PROJECT TEAM

OWNER: **DEPARTMENT OF RECREATION & PARKS**
221 N. Figueroa St. Ste 400
LOS ANGELES, CA 90012

DESIGN: **PLANNING, CONSTRUCTION and MAINTENANCE DIVISION**

DARRYL FORD
SUPERINDENDENT
(213)202-2682

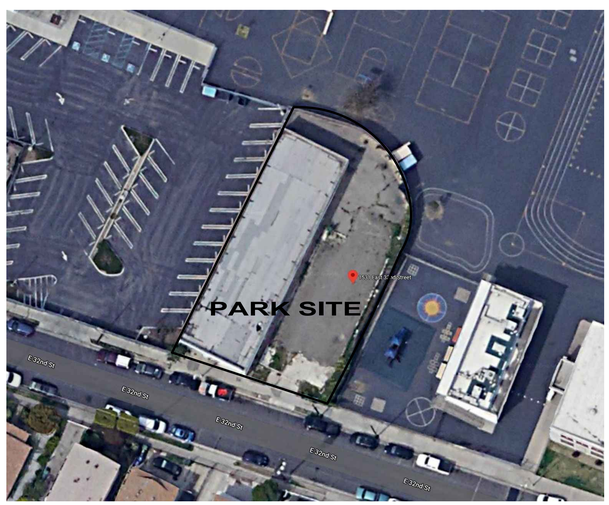
CRAIG RAINES
LANDSCAPE ARCHITECTURAL
ACTING LANDSCAPE ARCH II
(213)202-2652

JAVIER SOLIS
MAINTENANCE SUPERINDEMDENT
SUPERVISOR II
PACIFIC REGION
(213)485-4833

COUNCIL DISTRICT: **Marqueece Harris-Dawson (COUNCILMAN)**
COUNCIL DISTRICT 8

ABBREVIATIONS

ABS	ACRYLONITRILE BUTADIENE STYRENE	ID	INSIDE DIAMETER
ADJ	ADJACENT	INV.	INVERT ELEVATION
ALT.	ALTERNATE	IN.	INCH
∠	ANGLE	JOIN	MATCH EX. ADJACENT GRADE BOTH HORIZ. & VERT.
APPROX.	APPROXIMATE	JT.	JOINT
AC	ASPHALT CONCRETE	LB.	POUND
ASTM	AMERICAN SOCIETY FOR TESTING MATERIALS	LF	LINEAL FEET
@	AT	MAX.	MAXIMUM
BC	BEGINNING OF CURVE	MFG.	MANUFACTURER
BPU	BACKFLOW PREVENTION UNIT	MH	MANHOLE
BM	BENCH MARK	MIN.	MINIMUM
BS	BOTTOM OF STEP	MISC.	MISCELLANEOUS
BW	BOTTOM OF WALL	NIC	NOT IN CONTRACT
B/W	BOTH WAYS	NO.or #	NUMBER
CB	CATCH BASIN	NTS	NOT TO SCALE
C	CENTER LINE	OC	ON CENTER
CC	CENTER TO CENTER	OD	OUTSIDE DIAMETER
CJ	CONTROL JOINT	PA	PLANTING AREA
CLF	CHAIN LINK FENCE	PB	PULL BOX
CO	CLEAN OUT	P	PROPERTY LINE
CONC.	CONCRETE	POC	POINT OF CONNECTION
CONST.	CONSTRUCT	PP	POWER POLE
CF	CUBIC FOOT	PRC	POINT OF REVERSE CURVE
CSP	CORRUGATED STEEL PIPE	PSI	POUND PER SQUARE INCH
CY	CUBIC YARD	PVC	POLYVINYL CHLORIDE
DF	DRINKING FOUNTAIN	QCV	QUICK COUPLER VALVE
DG	DECOMPOSED GRANITE	R	RADIUS
DIA.or O	DIAMETER	RCP	REINFORCED CONCRETE
EA	EACH	RCV	REMOTE CONTROL VALVE
EC	END OF CURVE	RP	REDUCED PRESSURE BACKFLOW DEVICE
EJ	EXPANSION JOINT	SD	STORM DRAIN
ELEV.	ELEVATION	SHT.	SHEET
EQ.	EQUAL	SPECS.	SPECIFICATIONS
FB	FIELD BOOK	SS	SANITARY SEWER
FL	FLOWLINE	SSPWC	STANDARD SPECIFICATION FOR PUBLIC WORKS CONSTRUCTION
FG	FINISH GRADE	SQ.FT.	SQUARE FEET
FIN.	FINISH	TC	TOP OF CURB
FS	FINISH SURFACE	TG	TOP OF GRATE
FOC	FACE OF CURB	TS	TOP OF STEP
FOW	FACE OF WALL	TW	TOP OF WALL
FT	FEET	VERT.	VERTICAL
GA.	GAUGE	W/	WITH
GALV.	GALVANIZED	WM	WATER METER
GPM	GALLONS PER MINUTE	WWM	WELDED WIRE MESH
HORIZ.	HORIZONTAL		
⊕	LOCATION OF COMPACTION TEST, AS INDICATED ON THE PLANS		



SITE MAP
NOT TO SCALE

CITY OF LOS ANGELES DEPARTMENT OF RECREATION AND PARKS
PARK PROUD LA

THE CITY OF LOS ANGELES
DEPARTMENT OF RECREATION AND PARKS

GENERAL MANAGER(INTERIM): MICHAEL A. SHULL
SUPERINTENDENT: CATALINA SANTO DOMINGO
PROJECT LANDSCAPE ARCHITECT: CRAIG ALLEN RAINES
LIC NO. RLA5569
AS-BUILTS DRAWN BY:
DATE:

LICENSED LANDSCAPE ARCHITECT No. 4082 Signature July 31, 2018 Expiration Date

PROJECT NAME: **NEVIN AVENUE PARK**
ADDRESS: **1531 E 32nd St, Los Angeles, CA 90011**

REVISIONS:	DATE:
△	
△	
△	
△	
△	
△	

PLAN NAME: TITLE SHEET

DRAWN BY: Gongying Pu	APPROVED BY: Craig Raines
SCALE:	ISSUE DATE:
PROJECT #: 20833	FILE NO.

DRAWING NO. TS - 0.0
SHEET OF SHEETS

PRODUCED BY AN AUTODESK STUDENT VERSION
PRODUCED BY AN AUTODESK STUDENT VERSION
PRODUCED BY AN AUTODESK STUDENT VERSION

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GENERAL

Division 1, General Provisions for the Department of Recreation and Parks; the Standard Specifications for Public Works Construction, hereinafter referred to as SSPWC, latest edition with the current yearly supplements; and the 2002 Edition of the Additions and Amendments to the SSPWC, shall be made a part of these plans. Website: http://eng.lacity.org/techdocs/stdplans/s-600/s61028.pdf. Where conflicts occur between Division 1, General Provisions for the Department of Recreation and Parks and the Standard Specifications for Public Works Construction, Division 1 of the Department of Recreation and Parks shall take precedence. Where conflicts occur between this Notice To Contractors (NTC) and the SSPWC this NTC shall take precedence. Subsections included within this NTC modify or add to the corresponding subsection (by number) of the SSPWC, latest edition with current yearly supplements; where options for materials and/or methods appear in the SSPWC, the option listed hereon shall be used. This improvement consists only of work called for on these plans.The Contractor shall maintain adequate sanitary facilities on the jobsite from the beginning to end of grading operations.Underground substructures: the location of existing underground substructures, utilities, and pipelines as shown on the plans have been located from the best available records and have not been verified in the field. It shall be the contractor's responsibility to verify the locations of said substructures and lines even if not shown on the plans and to take all necessary precautions to prevent damage to the same. Straight grades shall be run between contours and/or spot elevations shown unless otherwise indicated. Should conflicting and/or erroneous information be found on the drawings, the Contractor shall notify the Landscape Architect prior to commencement of work. It shall be the responsibility of the Contractor to provide adequate supports for all excavations where necessary to protect personnel and property from any damage that might occur as a result of the collapse of excavation. The Contractor shall maintain current Cal OSHA permits as required and a copy of said permit shall be posted at the project. The Contractor shall provide access control for pedestrians and vehicles for entire project from the beginning to end of grading operations. The Contractor shall keep the construction area sufficiently dampened to control dust caused by grading and construction. Contractor shall, at all times, provide reasonable control of dust caused by wind. The Contractor shall control noise resulting from repair of heavy equipment after normal working hours by locating such activities as far as practicable from adjacent inhabited areas and so that such activities do not constitute a public nuisance or disturb the peace. Heavy equipment shall be kept in good operating condition and muffled as required by law.

PLANS AND SPECIFICATIONS

√ The Contractor/RAP Staff shall be responsible for:

To get the necessary approval, sign offs and authorization from the project landscape architect, as indicated on the plans, prior to proceeding to the next project phase. All approvals and submittals shall be transmitted to the Recreation and Parks Advance Planning project landscape architect.

**** Indicates required field inspections with the Department of Recreation and Parks Project Landscape Architect . Notify all party's three (3) days prior to the required inspection.**

√ SCHEDULE OF WORK

The Contractor/Rap Construction staff shall submit a Schedule of Work for approval to the Department of Recreation and Parks Project Landscape Architect prior to the commencement of work. The Contractor/Rap Construction staff shall schedule all work on weekdays (excluding Saturday, Sunday and City holidays) between the hours of 7:00 a.m. and 4:00 p.m. The work area shall be as defined on the Title Sheet, or as indicated on the Plans by means of a contract limit line.

√√ INSPECTIONS

All work and materials are subject to inspection and approval by Department of Recreation and Parks Project Landscape Architect. Any work done without proper inspection will be subject to rejection. As indicated in Section 2-11 of the Standard Specifications for Public Works Construction.

The Contractor shall notify the Department of Recreation and Parks three (3) days prior to inspection of the following for approval. Failure to do so will hold the Contractor responsible for all charges that arise from this:

1. **ROUGH GRADING:** When forms have been set, to approve alignment. Offsets or vertical controls shall be verifiable in the field, or be provided in grade sheet form, and submitted to the Department of Recreation and Parks for approval prior to the inspection.
2. **FINISH GRADE REVIEW:** For all finish grades in planting areas following rolling and prior to turf or landscape planting.
3. **PRE-FINAL INSPECTION** (refer also to Section 42 of Division 1, General Provisions)**:** A minimum of two weeks before the Final Inspection, Recreation and Parks shall hold a Pre-final Inspection. The Pre-Final Inspection shall be attended by the Department of Recreation and Parks, the Contractor, and invited parties associated with the Project. At this time, a list of items requiring correction or completion before the Final Inspection will be compiled. The following items shall be delivered to the appropriate Department of Recreation and Parks personnel: manufacturers' data, manuals, operating instructions, and keys, as required in Section 38 of Division 1, General Provisions.
4. **CONTRACT FINAL INSPECTION** (refer also to Section 43 of Division 1, General Provisions): Approximately seven (7) days prior to completion of the Work, the Contractor shall first notify the Department of Recreation and Parks that he desires a Final Inspection of the Project. During this inspection, the Inspector, the Department of Recreation and Parks, the Contractor and other parties concerned only with the contractual requirements of the Work will compile a Final Inspection Correction List, incorporating all items of work and corrections required to complete the Project. This list must be completed with thirty (30) days of the Final Inspection, or a new Final Inspection and Correction List shall be required.
5. **GENERAL GRADING** All trees to be planted in either an elevated berm or elevated planter. There shall be a minimum of 3' of clean soil between the top of the non permeable soil slab and the area where with the trees are to be planted. Contractor to provide all soil testing on site. Contractor to provide licensed hazardous waste hauler and provide manifest copies to the City prior to completion of the project. Contractor to pay and process a City of Los Angeles Department of Building and Safety grading and haul route permit. If any abandoned oil wells are encountered, the contractor shall contact the State Division of Oil, Gas and Geothermal Resources for inspection and direction. All work within an approximate radius of 50 feet, and or any work that is requiring a access through the radius as indicated above, of any unforeseen oil well shall stop until appropriate direction is received from the City. Contractor shall have identified an area for stockpiling of soil while contamination soil results are being assembled. Stockpile shall be covered with Visqueen and secured until a appropriate site for disposal and or reuse is identified. Site shall be secured with 6 foot temporary chain link fencing for the duration of the contract. During site grading and excavation, an onsite, unarmed security officer is required. Any railroad tracks encountered shall be recycled. Railroad ties shall be disposed of at appropriate landfill. All grading & drainage plans and sportsfield lighting foundations shall be designed, approved, wet stamped, and signed by a California licensed civil engineer.

√ MATERIALS SUBMITTAL

The Contractor shall submit a minimum of six copies of the Materials List, if applicable, to the Department of Recreation and Parks project landscape architect within ten days of receiving the Notice to Proceed. All submittals shall be sent to the Department of Recreation and Parks Project Landscape Architect at the same time as one submittal package. Any materials substituted for originally specified materials that have been rejected by Recreation and Parks shall have an alternate item resubmitted for approval within one week of the Contractor receiving the notice of rejection.

RECORD DRAWINGS (AS-BUILTS) SUBMITTALS

Record drawings shall reflect any changes made to the plans or specifications during the progress of the work as a result of addenda, change orders or adjustments due to field conditions or plan clarification. They shall also indicate any additional information discovered during the progress of construction that was not a part of the contract documents. All deviations from the specified depth at which materials are constructed shall be shown on the record drawings. Record all appropriate as-built information on the record drawings in red ink. As-built information shall include but not be limited to drain lines, valve locations, mainline locations and mainline wire installed separately from mainline. The record of each trade shall be made on the plan sheets for each trade as provided in the original plan set. The Contractor/RAP Construction Staff shall be responsible for coordinating all sub-Contractors work and shall produce a complete record of all installations, which shall be kept on the job site and updated daily during construction. At the completion of the Work and prior to final inspection, the Contractor shall submit signed 'as-built' blue-line prints to the Department of Recreation and Parks at the Operational Final Inspection, prior to the City's acceptance of the Contract Work, (per Section 39 of Division I of the General Provisions).

√ LAYOUT OF WORK, GRADE SHEET APPROVAL

Grade stakes shall be a minimum size of 1" x 2" and shall be driven a minimum of 12" into ground; each grade stake shall be protected by a flagged lath projecting 24" above ground; grade stakes disturbed by on-site activities shall be reset by the Surveyor. If specified on the plan the Contractor shall have his surveyor provide grade sheets. The grade sheets shall be submitted to the Department of Recreation and Parks for approval one week in advance of any grading operations.

UNDERGROUND SUBSTRUCTURES

Service lines from other public utilities, including the Department of Water and Power shall be located by notifying **UNDERGROUND SERVICE ALERT at 1 - (800) 422-4133** prior to commencing any excavation. For all other utilities, contact Dig Alert at (800) 227-2600.

1.GENERAL EARTHWORK

METHODS

The Grading Plan when approved shall be on the job at all times.
All grades between contours and/or spot elevations shall be assumed to be straight grades. There shall be no localized depressions or humps, (308-2.1).
The Contractor shall verify all grades and amounts of cut and fill before commencing work with the project Landscape Architect.
The area to be filled shall be cleared of all vegetative material, except the existing trees to remain. Protect remaining trees during all construction.
All fill soil shall be compacted to 90% relative compaction and the Contractor shall obtain and pay for all soil compaction tests. Locations where compaction testing is required are shown on the plans with the ⊕ symbol . The Department of Recreation and Parks may modify the exact location in the field, depending on field conditions. The total number of compaction test shall be no less than the number shown by the symbol. Minimum compaction of earthwork shall be 90% relative compaction unless noted otherwise.
Prior to placing fill rip existing subgrade to a depth of 6 inches. Intermix first 6 inches of fill placed with ripped subgrade to eliminate interface lens. Place remaining fill in 8" lifts.
The source of import soil shall be approved by the Department of Recreation and Parks prior to any grading operations. The Contractor/RAP Staff shall be required to provide an Agricultural Suitability soil test to establish the suitability of any imported soil and that soil concentrations of boron and salinity are within agricultural limits. The Contractor shall, at his own expense, amend the soil according to the recommendations of the soils report.
Fill material 24 inches, or more, below the finish grade may contain up to 25 percent broken concrete or bituminous paving with maximum dimension of 3 inches of any piece. The top 24 inches of fill may contain up to 10 percent broken concrete or bituminous paving with a maximum dimension of 1-1/2 inches of any piece. Where the plans call for turf, the top 6" of soil shall have no object larger than 1" in least dimension.
The contractor shall be responsible for removal and disposal of all excess soil and debris from the work area, (300-1.3.1, 300-2.6). No soil or debris shall be disposed of on Recreation and Parks Property without the permission of the Department of Recreation and Parks.
The Contractor shall conform to Section 7-8.1 of the SSPWC latest edition with the current yearly supplements for clean up and dust control.
Ground water conditions encountered during the course of the work shall be brought to the attention of the Project Landscape Architect.
If any grading operation covered by this section shall extend into or through, or shall be commenced during the period of October 15 to April 15, ***the contractor/RAP STAFF shall be required to submit plans of the temporary erosion control methods and devices he proposes to use in connection with the grading operations to be performed during that period.*** Said plans shall be submitted to the Landscape Architect.
The Contractor shall at no additional cost to the Department engage the services of an approved California licensed Soils Engineer and approved soils testing laboratory to provide subgrade, pipe bedding, and fill compaction control.
The Soils Engineer shall perform field observation and testing during grading to assist the Contractor in obtaining the proper moisture content, compactive effort and degree of compaction. Where compaction is less than required, additional compaction effort shall be made with adjustment of moisture content, as necessary, until the specified compaction is obtained.
Upon completion of grading, the Contractor shall furnish the Department of Recreation & Parks' compaction report, certified by the Soils Engineers, showing the results of compaction tests of fill, subgrade and bedding and certifying that fill, subgrade and pipe bedding compaction complies with the percentage compaction specified.

2. CONCRETE

All concrete construction shall be as specified in this Section unless specified otherwise in this Notice to Contractors.

MATERIALS

BASE MATERIAL

Base material for Portland Cement concrete shall be (CMB) crushed miscellaneous base, (200-2.4).

CONCRETE SPECIFIED BY CLASS

Placed concrete shall be class 520-C-2500, maximum 4 inch slump. Pumped concrete shall be class 560-E-2500, maximum 6 inch slump. A complete delivery receipt shall be required for each truckload of concrete delivered. The receipt shall be given to the Department of Recreation and Parks, (201-1.1.2).

PORTLAND CEMENT

All cement shall be Type II, low alkali Portland cement conforming to ASTM C150 (201-1.2).

AGGREGATES

The aggregates for all concrete construction shall be fractured face aggregates obtained from a quarry in the San Gabriel River drainage area only and shall be certified non-reactive by an approved testing laboratory as approved by the Bureau of Contract Administration, (201-1.2.2).

COMBINED AGGREGATE GRADINGS

Combined aggregate gradings for Portland Cement shall be as specified under this section, (201-1.3.2).

EXPANSION JOINTS

Expansion joints shall use a 3/8 inch thick asphalt impregnated felt expansion joint.

JOINT URETHANE SEALANT

When specified, expansion joint material shall be urethane elastomeric sealant for concrete pavement shall be Lithoseal Trafficalk-G3 by L. M. Scofield Company, or an approved equal, (201-3). Color to match concrete.

EXPANSION JOINT PREMOLDED ASPHALTIC JOINT MATERIAL

When specified, expansion joint material shall be 1/4 inch thick asphaltic joint material as manufactured by Sealtight Co., or an approved equal, (201-3).

DOWELS (EXPANSION AND END-OF-POUR JOINTS)

Shall be grade 40 or grade 60 billet steel, (201-2.2).

END OF POUR JOINTS

End of pour joints shall be 1/4 inch thick asphaltic joint material as manufactured by Sealtight Co., or an approved equal, (201-3).

COLORED CONCRETE ADMIXTURES

Admixtures for colored concrete shall be Lithochrome Color Hardener by L.M. Scofield Company (800) 800-9900, or Davis Mix-in Colors for concrete by Davis Colors, (800) 800-6856, or an approved equal.

METHODS

SUBGRADE AND BASE PREPARATION AND COMPACTION

Subgrade under all concrete shall be prepared and compacted in accordance with this section (301-1.).
Locations where compaction testing is required are shown on the plans with the ⊕ symbol. The Department of Recreation and Parks may modify the exact location in the field, depending on field conditions, if permission is granted from the Department of Recreation and Parks. The total number of compaction tests shall be no less than two (2) or the number indicated on the plans.
The Contractor shall provide compaction tests for both subgrade and base material, if applicable, at the locations indicated on the construction plans. Results of the compaction tests shall be submitted to the Department of Recreation and Parks for approval prior to the pouring of concrete. Minimum subgrade and base compaction shall be 90% relative compaction.

EXPANSION JOINTS

Shall be placed against previously constructed concrete structures or as indicated in the plans (303-5.4.2) and per Recreation and Parks Detail 300 series.

√√ **CONCRETE SURFACE FINISHING**

Concrete walks, pads shall have a medium sand blast finish, unless otherwise noted on the plans. The Contractor shall prepare a minimum two foot by two foot sample for approval by the Department of Recreation and Parks before any concrete is placed, (303-5.5.3). Any sidewalk in the public street right of way constructed as a portion of this contract shall be finished in accordance with City of Los Angeles Public Works standards.

3. DISINTEGRATED GRANITE AND SOIL STABILIZERS

MATERIALS

DISINTEGRATED GRANITE

Disintegrated granite shall be referred to by the abbreviation (D.G.), or referred to as a decomposed granite. All disintegrated granite shall conform to the following grading requirements:

Sieve Designation	% Passing	Sieve Designation	%Passing	
3/8 inch	100	No. 30	40-50	
No. 4	95-100	No. 50	25-35	
No. 8	75-80	No. 100	20-25	
No. 16	55-65	No. 200	5-15	

The portion of D.G retained on the no. 4 sieve shall have a maximum percentage of wear of 50 at 500 revolutions as determined by AASHTO T96-77.
The portion passing a No. 40 sieve shall have a maximum liquid limit of 25 and maximum plasticity index of 7 as determined by AASHTO T89-81 and AASHTO T90-81, respectively.
Crushed aggregate screenings shall be free from clay lumps, vegetative matter and deleterious material.

SOIL STABILIZER

The stabilizer shall be a non-toxic, colorless, odorless, organic powder that binds D.G. screenings. The stabilizer shall be manufactured by Stabilizer Inc., (800) 336-2468, or an approved equal.

PINE RESIN EMULSION

Pine resin emulsion for soil stabilization shall be Road Oyl by Soil Stabilization Products Company, Inc., (209) 383-3296, or an approved equal.

DISINTEGRATED GRANITE AND SOIL STABILIZERS cont.

PORTLAND CEMENT (FOR SOIL CEMENT)

Portland Cement shall be Type II, (201-1.2).

4. STRUCTURAL CONCRETE AND MASONRY

All work shall conform to the latest edition, L.A. City Building Code (LACBC) in addition to the SSPWC; the LACBC shall take precedence where conflicts occur with the SSPWC.

CERTIFICATION AND TESTING

As required by the LACBC, certificates of identification and/or testing shall be provided for all concrete, reinforcing steel, concrete block, mortar, and grout materials delivered to the job site.

The following items refer to the corresponding SSPWC subsections in order to resolve conflicts with the LACBC, to stress items of particular concern, or modify, add to, or choose options in the SSPWC.

MATERIALS

CONCRETE SPECIFIED BY CLASS

Concrete is designed for Fc=2000 psi; for durability placed concrete shall be class 560-C-3250, maximum 4 inch slump and pumped concrete shall be class 660-E-3250, maximum 6 inch slump. A complete delivery receipt shall be required for each truckload of concrete delivered. The receipt shall be given to the Department of Recreation and Parks.

PORTLAND CEMENT

All Cement shall be Type II, low alkali Portland cement conforming to ASTM C150. (201-1.2).

AGGREGATES

The aggregates for all concrete construction shall be fractured face aggregates obtained from a quarry in the San Gabriel River drainage area only and shall be certified non-reactive by a testing laboratory as approved by the Bureau of Contract Administration per Section (201-1.2.2).

COMBINED AGGREGATE GRADINGS

Combined aggregate gradings for Portland Cement shall be as specified under this section, (201-1.3.2).

REINFORCING STEEL

Use ASTM A615 Grade 40 billet steel, (201-2).

EXPANSION JOINTS

Use "Sealtight" 1/2 inch thick, full depth, self-sealing asphalt expansion joints by W. R. Meadows Inc. or equal, (201-3).

CONCRETE CURING COMPOUND

Use Type I compound, (201-4).

CEMENT MORTAR

In lieu of the class and proportions shown in SSPWC 201-5.1, use Type S mortar, Fc=2000 psi, LACBC 91.2403(g), (201-5, 202-2.1.2).

GROUT

In lieu of SSPWC 202-1.5.2, use 2000 psi grout per LACBC 91.2403(r), (201-1.5).

CONCRETE BLOCK

Use 8" x 8" x 16" lightweight (103 pcf) units conforming with ASTM C90 Grade N-1, (202.2.1).

LUMBER AND PLYWOOD FORMS

Formwork shall comply with this section, (204-1).

METHODS

FOUNDATION MATERIAL TREATMENT AND SUBGRADE FOR CONCRETE SURFACES

Footing excavations shall comply with these subsections, (303-1.3).

CONCRETE FORMWORK

Installation and removal of formwork for concrete footings and structures shall comply with these subsections, (303-1.3).

PLACING REINFORCEMENT

The Contractor's attention is directed to the provisions of this subsection regarding: (1) securing reinforcing steel in position in accordance with the "Concrete Reinforcing Steel Institute" standards; (2) splicing of bars; and (3) bending of bars, (303-1.7).In masonry the thickness of grout between block units and reinforcing steel shall not be less than 1/2 inch.

PLACING CONCRETE

The Contractor's attention is directed to the provisions of this subsection regarding: (1) avoiding concrete segregation; (2) wetting forms and subgrade; (3) consolidation of concrete with vibrators; and (4) provision for construction and expansion joints, (303-1.8).

CONCRETE SURFACE FINISH AND CURING COMPOUND

Surface finish and provision for curing compound shall comply with these subsections, (303-1.9).

MASONRY CONSTRUCTION

The Contractor's attention is directed to the provisions of this subsection regarding: (1) workmanship; (2) proper masonry units; (3) metal stops on horizontal reinforcing; (4) thoroughly rodding vertical cores; (5) cleaning cores of debris and mortar; (6) holding reinforcement straight and in place; and (7) cutting masonry with a power driven abrasive saw.If work is stopped for one hour or longer a horizontal construction joint shall be provided by stopping the grout 1 1/2 inches below the top of block.
Masonry shall be laid in running bond, unless otherwise noted, (303-4).

7. IRRIGATION SYSTEMS

MATERIALS

SOLVENT WELDED PLASTIC PIPE

Schedule 40 PVC plastic pipe shall be used for pipe sizes up to and including 1 1/2 inch diameter on both the discharge and supply side of control valves, (212-2.1.3). Class 315 PVC plastic pipe shall be used for pipe sizes from 2 inch up to and including 3 inch diameter.

RESTRAINED PLASTIC PIPE

Class 150, DR 18, C900 PVC pipe shall be used for pipe sizes of 4inch up to and including 10inch diameter.

REMOTE CONTROL VALVES

All remote control valves shall be electrically operated with body of cast brass or bronze construction, (212-2.2.4) and installed per details.

CONTROL WIRE

Connection between the automatic controller(s) and the remote control valves shall be made with direct burial 14 gage, AWG-UF, 600 volt, copper wire. Wires shall be provided in the following colors: red, yellow, blue, green, orange, tan, purple, pink, brown, gray, and white.

CONTROL WIRE CONNECTIONS

Control wire connections shall be made with 3-M brand of DBY or DBR Direct Burial Splice kits, or approved equal. The splice kit shall consist of a one-piece malleable plastic bulb body with internal locking fingers, filled with re-enterable gel sealant and a Scotchlok Electrical Spring Connector. Materials shall be as follows:
Connector shall be a flame retardant PVC insulator with a steel spring and shell within. Connector shall be a non-crimping system
Tube material shall be clear see-through polypropylene.
Gel material shall be hixotropic calcium organic complex.

Wire sizes and numbers of wires shall be as shown below:

CONNECTORCOLORNO. AND SIZE OF WIRE3M Model DBYYellowMax. 4-12 gage UF wires3M Model DBRRedMax. 3-14 gage UF wires

√ **QUICK COUPLING VALVES AND ASSEMBLIES**

Quick couplers shall be 1 inch i.p.s., two piece, brass or bronze construction equipped with a cover, unless otherwise specified on plans. The Contractor shall provide one quick coupler key with hose swivel for each five quick couplers installed. Contractor shall supply a minimum of one quick coupler key with hose swivel, (212-2.2.6) and shall be installed per details.

√ **VALVE BOXES**

Valve boxes shall be of Portland Cement concrete with a cast iron frame and hinged double toggle locking cover. The inside dimensions of the box shall be 10 1/2 inches by 17 1/4 inches, Model 363 1/2 HFL by Eisel Enterprises Inc., or approved equivalent. The cast iron cover shall be permanently embossed, "GV" for gate valve, "RCV" for remote control valves, "QC" for quick coupler valves, MV for Master Valves, or FM for Flow Meter. Paint is not acceptable. Contractor shall supply one (1) valve box cover key for each five (5) valve boxes installed. Provide a minimum of two (2) cover keys, (212-2.2.7). Boxes are to be installed per details.

METHODS

NEW PIPELINE INSTALLATION - GENERAL

√√ When pipelines run parallel they shall be separated horizontally by a minimum distance of 12". When pipelines cross each other they shall be separated vertically by a minimum distance of 3".

√√ No irrigation trenching shall pass closer than eight feet of the base of any tree. No tree root larger than 2" diameter shall be cut without approval of Department of Recreation and Parks Project Landscape Architect.

COVER OVER MAINLINES:

√√ Maintain 24 inches of cover over mainlines 3" and smaller in diameter. Mainlines 4" and larger in diameter shall have 30" of cover over the top of the pipe, (308-5.2). All trenching shall be per details.

COVER OVER LATERAL LINES:

√√ Maintain 12 inches of cover over all lateral lines. Note: F.G. is top of soil and does not include mulch.

Pipe bedding and backfill: bedding shall surround the pipe to one foot above the top of the pipe. Bedding shall be placed in 6 inch lifts. All bedding shall be densified by water jetting. Water jetting shall be sufficient to thoroughly wet bedding material around the pipe, (306-1.2.1). There shall be no rocks over 1/2" in greatest dimension and no organic matter placed in the bedding material. Backfill shall be the material placed above the bedding. Backfill shall be placed in one-foot lifts and densified by water jetting. Jetting shall be continued until backfill collapses and water is forced to the surface, (306-1.3.1). Pipe trenches thoroughly densified by water settling shall have a minimum relative compaction of 85%. There shall be no rocks over 2" in greatest dimension or organic matter in the backfill. Trench areas which exhibit insufficient densification shall be subject to compaction tests as requested by the Department of Recreation and Parks. All such compaction tests shall be at the expense of the Contractor. Additional tests may be required until the 85% minimum compaction is achieved. Finished trenches shall match finish grades flush with adjacent finish grades. The Contractor shall be responsible for maintaining the trenches flush and smooth until final acceptance of the project. Trenches in existing lawn shall be repaired per method A lawn repair of the Landscape Planting section of the Notice to Contractors.
The maximum trench width shall be two and a half diameters of the pipe.
Note: Trench depth must be verified by the project Landscape Architect.

PIPES CROSSING UNDER PAVING:

Where irrigation piping crosses a vehicular roadway or other paving having a width of less than 25 feet, a PVC Schedule 40 PVC sleeve which is a minimum of two pipe sizes larger than the piping to pass through it, shall be jacked under the paving at a depth of 36" minimum. Where remote control wiring crosses under paving having a width of less than 25 feet, a 3 inch PVC Schedule 40 PVC sleeve shall be jacked under the paving at a depth of 36" minimum. All sleeves shall extend 3' minimum beyond the edges of paving.

Where irrigation piping crosses a vehicular roadway or other paving having a width greater than 25 feet, a trench shall be excavated across the roadway or paving to accommodate a Class 315 PVC sleeve a minimum of two pipe sizes larger than the piping to pass through it, at a depth of 36" below the bottom of the paving, as measured from the top of the sleeve. Where remote control wiring crosses under paving having a width greater than 25 feet, a 3 inch Schedule 40 PVC sleeve shall be installed at a depth of 36" below the bottom of the paving, as measured from the top of the sleeve. The backfill of the trench shall be a 2 sack cement slurry. The slurry shall extend from the bottom of the trench to within one inch of the bottom of the existing paving. The trench in the existing paving shall be repaired with a like paving material and join the existing paving both horizontally and vertically.

REMOTE CONTROL WIRING UNDER PAVING

Remote control wire under paving shall be placed in a 3" class 315 PVC sleeve buried at a depth of 36.
Roadways less than 25 feet in width shall have the sleeve jacked under the roadway.

FITTINGS ON MAINLINES:

All outlets from a mainline shall be accomplished with line sized tees with an outlet of the specified size. No saddle tees shall be permitted.

INSTALLATION OF VALVE BOXES

Boxes shall be set flush with existing grade or grade as established on grading plans, including sloped areas, and all soil within 12 inches of the perimeter of the box shall be compacted by water settlement as indicated in the trench repair section of this specification. Boxes are to be positioned per details.

LAYOUT OF PIPING

Pipe layout as shown on irrigation plan is schematic. Contractor may route piping in the most expedient manner consistent with the requirements set forth herein, including avoidance of tree roots. Contractor shall adhere to As-Built requirements as shown below.

INSTALLATION OF IRRIGATION HEADS

Sprinkler heads in lawn areas shall be set flush with finish grade at initial installation and protected during construction. All soil 12 inches from the perimeter of the head shall be compacted by water jetting as indicated in this specification, or set in sand as shown on details.

MAINTENANCE KIT

(Applies to cast iron and brass gear driven rotary pop-up heads only.) The Contractor shall supply to the Department of Recreation and Parks one rotor maintenance kit per 100 heads, or one kit minimum if less than 100 heads, (308-5.4.4).

SPRINKLER HEAD RISER

All plastic sprinkler heads shall be installed on swing joint assemblies as shown on details. Swing joint assemblies for Thompson gear driven rotary pop-up heads shall be fabricated of Schedule 40 galvanized steel pipe and fittings as specified in details.

METHODS

NEW PIPELINE INSTALLATION - GENERAL

√√ When pipelines run parallel they shall be separated horizontally by a minimum distance of 12". When pipelines cross each other they shall be separated vertically by a minimum distance of 3".

√√ No irrigation trenching shall pass closer than eight feet of the base of any tree. No tree root larger than 2" diameter shall be cut without approval of Department of Recreation and Parks.

COVER OVER MAINLINES:

√√ Maintain 24 inches of cover over mainlines 3" and smaller in diameter. Mainlines 4" and larger in diameter shall have 30" of cover over the top of the pipe, (308-5.2). All trenching shall be per details.

COVER OVER LATERAL LINES:

√√ Maintain 12 inches of cover over all lateral lines.

SPRINKLER HEAD RISER

All plastic sprinkler heads shall be installed on swing joint assemblies as shown on details. Swing joint assemblies shall be as specified in details.

AUTOMATIC CONTROL SYSTEM INSTALLATION

The foundation of the automatic controller shall be per details. Each remote control valve shall have a separate 24 volt control wire from the automatic irrigation controller.

√√ **LOW VOLTAGE WIRE CONNECTIONS**

Connectors shall be DBY or DBR as manufactured by 3M Corp. Control wires shall be stripped of 1/2 inch insulation, inserted into the electrical spring connector, and the connector twisted in a clockwise direction until the wires are tight. Insert the completed splice into the gel-filled tube, and check visually to confirm that the wire nut has been pushed past the fingers and is seated in the bottom of the tube. Position wires in wire channels and close insulator cover.

CONTROL WIRE

Connection between the automatic controller(s) and the remote control valves shall be made with direct burial 14 gage, AWG-UF, 600 volt, copper wire. Wires shall be color coded as follows:

CONTROLLER WIRE COLOR	CONTROLLER STATIONS	CONTROLLER STATIONS	CONTROLLER STATIONS	CONTROLLER STATIONS
RED	1	11	21	31
YELLOW	2	12	22	32
BLUE	3	13	23	33
GREEN	4	14	24	34
ORANGE	5	15	25	35
TAN	6	16	26	36
PURPLE	7	17	27	37
PINK	8	18	28	38
BROWN	9	19	29	39
GRAY	10	20	30	40

PARK PROUD LA

THE CITY OF LOS ANGELES
DEPARTMENT OF RECREATION AND PARKS

GENERAL MANAGER(INTERIM): MICHAEL A. SHULL SUPERINTENDENT: CATALINA SANTO DOMINGO
PROJECT LANDSCAPE ARCHITECT: CRAIG ALLEN RAINES LIC NO. PLA5599
AS-BUILTS DRAWN BY: DATE:

REGISTERED LANDSCAPE ARCHITECT
No. 4082
Craig Allen Raines
Signature
July 31, 2018
Expiration Date

PROJECT NAME:
NEVIN AVENUE PARK PLAN
ADDRESS:
1531 E 32nd St, Los Angeles, CA 90011

REVISIONS:	DATE:
△	
△	
△	
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△	

PLAN NAME:
SPECIFICATIONS

DRAWN BY: Gongying Pu	APPROVED BY: Craig Raines
SCALE: N.T.S.	ISSUE DATE:
PROJECT #: 20833	FILE NO.

DRAWING NO.
TS - 0.1
SHEET OF SHEETS

PRODUCED BY AN AUTODESK STUDENT VERSION

PRODUCED BY AN AUTODESK STUDENT VERSION

IRRIGATION SYSTEMS cont.

CONTROLLER	TAPE BUNDLE COLOR
A	RED
B	YELLOW
C	BLUE
D	GREEN
E	WHITE
F	BLACK

INSTALLATION OF IRRIGATION CONTROL WIRING
Wire bundles shall be taped at 5' o.c. Lay bundles in the mainline trench. Do not tape bundles to the mainline piping.

√√ The Contractor shall run two extra black control wires from the automatic controller to the farthest valve on the system, or to the farthest valve at each end of the controller area, if the farthest area extends in two directions from the controller.

Each controller shall have a separate 14 gage, AWG-UF, 600 volt, WHITE common wire for each 10 consecutive stations on each irrigation controller.
Common 1, stations 1-10
Common 2, stations 11-20
Common 3, stations 21-30
Common 4, stations 31-40

Each exterior controller enclosure shall have a ground rod installed if detailed on controller installation detail.

Wire shall not be taped to mainline (308-5.5). If control wires run in same trench as lateral lines, or are dead headed, wire depth shall be maintained at 24". For installation, see details.

√√ **IRRIGATION SYSTEM FLUSHING AND TESTING**
The irrigation system shall be flushed in the presence of the Department of Recreation and Parks project Landscape Architect. Flushing shall start with the valve closest to the point of connection and proceed with each consecutive valve toward the valve farthest from the point of connection. Each lateral system shall have each riser capped during the flushing commencing with the riser closest to the valve and proceeding to the farthest riser. After the entire irrigation system has been flushed the system shall be pressure tested in accordance with section 308-5.6 of the SSPWC.

√√ The irrigation system mainlines shall be pressure tested following the flushing of the complete system. The mainlines shall be tested for 24 hours at 125 p.s.i. with all control valves in place and closed. During the test, the Contractor shall provide pressure gauges downstream from the backflow device and upstream from the farthest remote control valve in the system. Air pressure testing of the irrigation system is acceptable if approved by the Department of Recreation and Parks.

√ **RECORD DRAWINGS (AS-BUILTS) AND CONTROLLER CHARTS**
As built plans shall be maintained daily throughout the construction period and turned over to the Department of Recreation and Parks project Landscape Architect at the Operational Final Inspection, as indicated in the General section of this Notice to Contractors in the Record Drawings Submittal section.

The Contractor shall provide two copies of a controller chart showing the irrigation system installed. The chart shall be done on a half size photographic reproduction of the irrigation plan and shall reflect the as-built data. Each station shall be shown in a different color and control wire locations shall be indicated. The complete plan shall be laminated on each side with a 20 mil acrylic plastic sheet. A 3/4" brass grommet shall be placed in each top corner. The Contractor shall obtain approval of the controller chart from the Department of Recreation and Parks, before proceeding with the plastic lamination.

WARRANTY FOR IRRIGATION SYSTEM WORK
The entire sprinkler irrigation system shall be warranted to be free from defects in materials and workmanship, and installed in accordance with this Notice to Contractors and the SSPWC. The Contractor shall be required to repair or replace any defects in material or workmanship which may develop within one (1) calendar year from the date of acceptance, ordinary wear and tear and unusual abuse or neglect excepted. Further, the Contractor shall be required to make any necessary repairs within 24 hours of notification at no cost to the Department. If the Contractor or his agent fail to make such repairs within the stipulated time, the Department shall make such repairs or have repairs made by a third party and bill the Contractor for all expenses that accrue from making such repairs.

GUARANTEE AGAINST SETTLEMENT
If, within one (1) calendar year from the date of acceptance, settlement occurs along mainlines, lateral lines, at valve boxes, or other irrigation related appurtenances, and adjustments in pipes valves and sprinkler heads are required to bring the system, sod, or paving to the level of the permanent grades, the Contractor shall make all adjustments without additional cost to the Department, including complete restoration of any planting, paving, or other improvements damaged as a result of settlement.

STEEL PIPELINE
Joints shall be made with Teflon tape applied to the male threads only, (308-5.2.2).

PLASTIC PIPELINE-SOLVENT WELDED OR THREADED ENDS
Prior to the application of the P.V.C. solvent cement, prepare all surfaces to be solvent welded with tetrahydrofuran primer tinted purple. Teflon tape shall be used on all plastic male pipe threads, (308-5.2.3).

√ **BACKFLOW DEVICE INSTALLATION AND CERTIFICATION**
The Contractor shall obtain certification of the backflow device and submit two copies of the certification to the Department of Recreation and Parks at the Operational Final. The backflow certification shall be made on the County Health Department standard form and filed with the County Health Department, Cross Connection Section, Room 150, 2525 Corporate Place, Monterey Park, CA, 91754. The contractor shall paint all backflow prevention devices above ground with two coats of forest green enamel. Mask all identification tags prior to painting, (308-5.3). After certification remove all test cocks, replace with threaded brass plugs, and deliver test cocks to the Department of Recreation and Parks.

6. CHAIN LINK FENCING AND MISCELLANEOUS METAL CONSTRUCTION

MATERIALS

√√ **CHAIN LINK FENCING**
Chain link fencing materials shall be as specified in details RP 500-506 and Section (206-6).

√√ Pipes for posts, braces and rails shall be Class 1, Schedule 40, ASTM F 1083 or, Class 1A, with a minimum 50,000 psi yield strength. Class 1 pipe shall be galvanized as indicated in this section of the Notice to Contractors. Class 1A pipe shall have a minimum hot dipped zinc coating of 0.9 oz./Sq. Ft., 15 micrograms of chromate per square inch and a minimum or 3 mils of acrylic coating on the exterior of the pipe. The interior coating of Class 1A pipe shall be hot dipped galvanized with .9 oz/ Sq. Ft. Zinc. Materials for chain link fence posts, rails and braces shall be sized as follows:

NOMINAL SIZE (inches)	ACTUAL O.D. (inches)	CLASS 1 PIPE Wall Thickness	CLASS 1 Weight LBS per lin. ft.	CLASS 1A PIPE Wall Thickness	CLASS 1A Weight LBS/L.F. (pounds)
1 1/4"	1 5/8"	.140	2.27	.110	1.82
1 1/2"	1 7/8"	.145	2.72	.120	2.28
2"	2 3/8"	.154	3.65	.130	3.12
2 1/2"	2 7/8"	.203	5.79	.160	4.64
3"	3 1/2"	.216	7.57	.160	5.71
3 1/2"	4"	.226	9.11	.160	6.56
4"	4 1/2"	.237	10.79	NA	NA
6"	6 5/8"	.280	18.97	NA	NA

CHAIN LINK FENCING AND MISCELLANEOUS METAL CONSTRUCTION cont.

CHAIN LINK FABRIC
Galvanized steel chain link fabric shall conform to ASTM A 392, Class 2, 1.20 0z./Sq.Ft. zinc. Fabric shall be 9 gauge and be woven in a 1 1/2" mesh unless otherwise indicated on the plan. Top and bottom selvages shall be knuckled.

PVC coated galvanized steel fabric, when specified, shall conform to ASTM F 668, Class 2b, "fused and adhered", and meet the galvanizing requirements contained in this section of the Notice to Contractors, (206-6.3).

STEEL SHAPES
All structural steel shapes shall be as specified in the applicable detail.

√√ **GALVANIZING**
Where called out, metal products shall be hot dipped galvanized in accordance with **TABLE 210-3.2(A)** of the SSPWC.

√√ **MANUFACTURER'S CERTIFICATE OF COMPLIANCE**
The manufacturer of the Chain link fabric, fence posts, rails and braces shall provide the Contractor a Certificate of compliance for each shipment sent to the project site. The Certificate shall state that the materials delivered conform the specification for materials as indicated in Section 8 of these Notice to Contractors. The Certificate of Compliance shall be delivered to the Construction Manager before any fencing materials are installed at the project site.

REPAIRING OF DAMAGED GALVANIZED SURFACES
Galvanized surfaces which have been damaged in transport or during installation shall be re-coated using the metalizing process or zinc oxide, zinc dust paint per Section 210-3.5 of the Standard Specification.

TUBULAR STEEL SHAPES
Cold formed shapes for tubular steel fencing shall conform to ASTM A 500, Grade B, in the size and wall thickness shown on the plans and details. Unless specified on the plans all post and rails shall be 3/16" thick. All pickets for fencing shall be 11 gauge.

√√ **TUBULAR STEEL WELDING**
Shall conform to the AWS code for procedures, appearance and quality. All welds shall be ground smooth. All fabricated metal fencing panels shall be shop assembled and welded.

√√ **PAINTING (TUBULAR STEEL AND CHAIN LINK FENCING WHEN REQUIRED)**
"Factory" coated tubular steel fencing or chain link fencing shall be exempted from this requirement. All other shop fabricated tubular steel fencing or fencing constructed on site shall be painted in accordance with the requirements for painting "Ferrous Metal (Non-galvanized) Surfaces" below. The two finish coats shall be black unless otherwise specified.

METHODS

CHAIN LINK FENCE
Chain link fence shall be installed and stretched tight between posts.

All connection bolts shall not extend more than 1/4 inch past the end of the nut and be free from burrs.

TUBULAR STEEL PAINTING
Prior to priming and painting, all steel shall be made free of loose mill scale, rust, oil and grease. Welds shall be smoothed by grinding. Damage to "factory" coated tubular steel or chain link fencing shall be repaired after installation by sanding damaged paint surfaces and by applying one coat of manufacturer specified primer and two new coats of specified color coat.

7. PAINTING

MATERIALS

Paint systems, catalog names, and product numbers listed below are based on products of Dunn-Edwards Corporation. This shall be considered the standard of quality against which the Department of Recreation and Parks will judge equivalency. Equivalent materials from alternate manufacturers will be considered as an approved equal. Contractor's material submittal for proposed alternate must include complete material specifications from manufacturer. Paint systems described below are for specific surfaces as indicated. In addition to the information provided herein, paint materials shall also be governed by the requirements set forth in section 210-1 of the SSPWC.

Ferrous Metal Tubular Shapes (Non-Galvanized), Semi-Gloss

Painting Sequence	Finishing Schedule	Recoat And Drying Time	Coverage At Required Wet Film Thickness	Required Wet Film/Dry Film Thickness
1st coat: Synthetic alkyd white corrosion inhibiting primer	Corrobar (43-5)	Min. 24 hrs. Max. 72 hrs.	450 square feet per gallon	3.5 wet mils; 2.0 dry mils
2nd coat: Semigloss enamel acrylic latex exterior enamel	Permasheen (W 901)	Dry to touch: 30 min.; Recoat: 4 hrs.	375 square feet per gallon	4.2 wet mils; 1.5 dry mils
3rd coat: Semigloss enamel acrylic latex exterior enamel	Permasheen (W 901)	Dry to touch: 30 min.	375 square feet per gallon	4.2 wet mils; 1.5 dry mils

Non ferrous metals (Galvanized steel, Aluminum, Cor-Ten® Steel), Semi-Gloss

Painting Sequence	Finishing Schedule	Recoat And Drying Time	Coverage At Required Wet Film Thickness	Required Wet Film/Dry Film Thickness
Pre-coat: galvanized steel only. Acid etch*	Galva-etch (GE 123)	n/a	n/a	n/a
1st coat: Alkyd primer	Galv-Alum (QD 43-7)	Dry to touch: 30 min.; recoat: 2 hrs. † Max. 48 hrs.	350 square feet per gallon	4.6 wet mils; 2.0 dry mils
2nd coat: Synthetic alkyd white corrosion inhibiting primer	Permasheen (W 901)	Dry to touch: 30 min.; Recoat: 4 hrs.	375 square feet per gallon	3.5 wet mils; 2.0 dry mils
3rd coat: Semigloss enamel acrylic latex exterior enamel	Permasheen (W 901)	Dry to touch: 30 min.	375 square feet per gallon	4.2 wet mils; 1.5 dry mils

* Galva-etch is a water reducible acid pre-treatment for galvanized metals. Do not use on aluminum.

† Recoat time for Galv-Alum is 2 hours if material is sprayed, 16 hours if brushed or rolled. Second coat must be applied within 48 hours

Primers, Sealer, and Undercoaters

Alkyd based	Block-it (QD 42-56) Quick-dry pigmented primer/sealer	Dry to touch: 30 min.; Recoat: 1 hr.	435 square feet per gallon	3.7 wet mils; 1.5 dry mils

PAINTING cont.
METHODS

GENERAL
Refer also to section 310-1of the SSPWC.

COLOR SPECIFIED
Colors shall be selected from color chip samples provided by manufacturer of paint system approved for use by the Department of Recreation and Parks project Landscape Architect.

CONDITION OF SURFACES TO BE PAINTED
Contractor shall verify condition of surfaces to be painted prior to commencement of painting work. Work of other trades that been left or installed in a condition that is not suitable to receive paint, stain, or other specified coatings shall be immediately called to the attention of the Department of Recreation and Parks. Painting of defective or unsuitable surface implies acceptance of the surfaces.

PROTECTION OF EXISTING WORK
The Contractor shall take all necessary precautions to protect previously installed work and materials which may be affected by work. Items to be protected include, but are not limited to, turfgrass, shrubs, trees, ground cover, prefinished surfaces, and adjacent surfaces. Contractor shall furnish at his expense sufficient drop cloths, shields, and other protective devices necessary to prevent spray or splatter from fouling surfaces not being painted. Contractor shall be responsible for protecting equipment and fixtures from damage resulting from use of fixed, movable and hanging scaffolding, planking and staging, (310-1.4) Damaged equipment to be repaired or replaced at contractor's expense.

PROTECTION OF NEW PAINTING
"WET PAINT" signs, barricades, and such other devices as are required to protect newly finished surfaces shall be provided. Contractor shall be responsible for removal of signs protective materials, and temporary protective wrappings provided by others for protection of their work after completion of painting operations.

SURFACE PREPARATION, GENERAL
The Contractor shall perform preparation and cleaning procedures in strict accordance with coating manufacturer's instructions for each substrate condition, (310-2)

√√ **SURFACE PREPARATION FOR GALVANIZED SURFACES**
Galvanized surfaces shall be prepared for painting in accordance with section 310-3 of the SSPWC.

√√ **SURFACE PREPARATION FOR WOOD SURFACES**
Wood surfaces shall be prepared for painting in accordance with section 310-4 of the SSPWC.

APPLICATION
The Contractor shall apply painting and finishing materials in accordance with the manufacturer's printed instructions. Application methods and techniques that are best suited for the materials and surfaces to which coatings are being applied shall be used, (310-5)

The number of coats specified is the minimum that shall be applied. All undercoats shall be tinted to the approximate color of the finish coat. The Contractor shall apply additional coats when undercoats, stains, or other conditions show through the final paint coat, until paint film is of uniform finish, color and appearance.

Each material shall be applied at not less than the manufacturer's recommended spreading rate and mil thickness. The total dry-film thickness of coatings shall not be less than 1.2 mils for each required coat.

CLEANING, TOUCH-UP AND REFINISHING
The Contractor shall remove all spattering, spots and blemishes caused by work done throughout the work period. Upon completion of painting, the Contractor shall remove all rubbish, paint cans and accumulated materials resulting form work and dispose of off site. All areas of work shall be left in a clean, orderly condition. Runs, sags, misses, holidays, stains, or any other defects in the painted surfaces, including inadequate coverage and mil thickness, shall be satisfactorily touched up, refinished, or repaired a necessary to produce a result satisfactory to the Department of Recreation and Parks project Landscape Architect.

8. LANDSCAPE PLANTING

MATERIALS

AMMONIUM PHOSPHATE
Shall be a standard agricultural grade of ammonium phosphate having guaranteed analysis of 16-20-0.

GYPSUM
Shall be agricultural grade.

ESTABLISH - GENERAL PURPOSE FERTILIZER(Not intended for soils with Native Plant Materia)l
Shall have a minimum analysis of 1-1.3-5,(N-P-K), derived from rock phosphate, peat moss, chicken manure, sand, sulfate of potash, gypsum, and EDDHA chelate. As manufactured by Earth Works Soil Amendment, Inc., (310) 322-9702, or an approved equal.

HYDROSEED MULCH FIBER
Shall consist of virgin wood fiber of Aspen or Alder. It shall not contain any waste paper, newsprint or straw material. The mulch shall contain a green dye to facilitate application. Fiber shall be as manufactured by Conwed Co., (Green Tag), Silva-Fiber by Weyerhauser Co., or an approved equal, (212-1.2 (e)). Submit spec to the project Landscape Architect prior to start of work.

HYDROSEED STABILIZER
Shall consist of natural muciloid materials supplied by Ecology Controls M-binder, (805) 684-0436, no equal.

HYDROBLEND SOIL ACTIVATOR
Shall have a minimum analysis of 1.2-1.4-5, (N-P-K), derived from rock phosphate, peat moss, chicken manure, sulfate of potash, gypsum. As manufactured by Earth Works Inc., (310) 322-9702, or an approved equal.

FEATHER MEAL
Shall have a minimum analysis of 12-0-0,(N-P-K), derived from feathermeal. As manufactured by Earth Works Inc., (310) 322-9702, or an approved equal.

NITROFORM UREAFORM
Shall be a standard commercial grade of nitroform having a guaranteed analysis of 38-0-0.

ORGANIC AMENDMENT
Shall be type I organic soil amendment, consisting of nitrolized fir shavings.

OVERSEED TOPDRESSING, EARTH WORKS ORGANIC TOPDRESSING
Shall be, derived from composted wood products, peat moss, chicken manure and a wetting agent. As manufactured by Earth Works Inc., (310) 322-9702, or an approved equal.

Potassium sulfate
Shall be a standard agricultural grade of potassium sulfate having guaranteed analysis of 0-0-50.

ROUNDUP
Shall be a water-soluble herbicide for non-selective control of weeds containing 480 grams per liter of the active ingredient Isopropylamine salt of N-(phosphonomethyl) Glycine (Glyphosate) per U.S. gallon, as manufactured by Monsanto Chemical Company, or approved equal.

PRE-EMERGENT HERBICIDE
Shall be Balan Granular, by Elanco, or an approved equal. All pre-emergent herbicides, when required, shall be specified and applied by a licensed Pest Control Advisor.

FERTILIZER TABLETS
Shall be fertilizer tablets shall be Agriform 21 gram, 20-10-5, available from Western Farm Service, (805) 487-4961.

MULCH
Shall be seasoned tree chip mulch, free all foreign matter including weed and tree seeds. Mulch chip size shall be minimum one (1) inch in diameter and not more than two (2) inches in diameter. Submit sample of mulch and source to Landscape Architect/ The Department of Recreation and Parks for approval prior to application.

WATER HOLDING POLYMER
Shall be "Broadleaf P-4"

METHODS

TOPSOIL PREPARATION - GENERAL
The type and thickness of topsoil shall be as shown on the plans. If not shown, the topsoil shall be the existing class "C" on-site topsoil. Remove all stones over 1 inch in greatest dimension, to a depth of 6 inches below finish grade, (308-2.3.1).

Prior to planting, the top six (6) inches of all areas (including slopes) shall be free of weeds, stones, and other deleterious matter one (1) inch in diameter and larger.

RAP STAFF/ CONTRACTOR TO: Provide agricultural suitability tests from a approved Lab for all areas that are to be planted. Depth of test to coincide with size of material to be planted, i.e.: bore depth fo turf 6, 12" for shubs and 24" for trees. Suitability text to be given to the project Landscape Architect. Contractor/RAP staff to amend soils as recommended on the soils report. Soils report recommendations shall supercede amendments specified here within.

TOPSOIL PREPARATION
If not otherwise specified, all lawn and ground cover areas shall receive the following soil preparation:
3 cubic yards, Type I organic soil amendment per 1,000 sq. ft., (.003 CY/Sq.Ft.)
75 lbs of Establish per 1,000 sq.ft., (.075 Lbs./Sq.Ft.)
5 lbs. of Feathermeal, 12-0-0, per 1,000 sq. ft., (.005 Lbs./Sq.Ft.)

The soil preparation materials shall be cultivated into the soil to a depth of 6 inches minimum and thoroughly watered, (308-2.3.1).

LANDSCAPE PLANTING cont.

FINISH GRADING (FOR LAWN AREAS)
Finish grading of lawn areas shall take place after the soil has dried out to a workable condition following the soil preparation operations. The soil shall be remodeled and smoothed to the required grades and contours, then rolled in two directions at right angles with a water ballast roller weighing 200 to 300 pounds. Any resulting irregularities in the grade after the initial rolling shall be re-raked, cut or filled, then re-rolled until the grade is free from irregularities. No heavy objects shall be taken over the areas at any time. The final finish grade shall be uniform, without abrupt changes in grade, within one-tenth of a foot of the grades shown on the plan, and approved by the Department of Recreation and Parks project Landscape Architect prior to seeding, (308-2.4).

WEED ABATEMENT ("GROW AND KILL")
Weed abatement shall apply to all turf and planting areas. The abatement operation shall be commenced only after removals, grading, hardscape, construction, installation of irrigation system, soil preparation, and fine grading of turf and planting areas have been completed.

NOTE: It is required that herbicides be applied by a licensed **PEST CONTROL APPLICATOR.**

CONTRACTOR RESPONSIBILITY DURING WEED ABATEMENT OPERATION AND APPLICATION PRECAUTIONS
The Contractor/RAP staff shall abide by all laws and codes governing weed abatement operations including but not limited to CAL-OSHA requirements and The Healthy School Act which includes 72 hour notice to employees and patrons, submittal of a "Pest Control Recommendation Form" to Recreation and Parks, and a completed and accurate MSDS (Material Safety Data Sheet) to be at the site of application. The area of application shall be posted as such and barricaded for public safety and information. On sites over ½ acre in size the contractor shall utilize a Department of Recreation and Parks approved plan of phasing the application.

The Contractor/RAP staff is responsible or any and all damage done to plant materials outside of the treatment area. Contractor shall replace, in kind and size, any plant material damaged or killed through the application of herbicide.

Any Contractor, who is obligated under contract with the Department for the construction or refurbishment of a park facility that involves the intended use of herbicides or other pesticides, must first notify the pest management supervisor of the Forestry Division. Prior to any approved pesticide applications at any recreation/child care center, the contractor is also required to notify the recreation director-in-charge at least 72 hours in advance of the date/s of application. This is to conform to the State of California Healthy Schools Act of 2000(AB2260). Also, all pest control work performed at any facility should fall within the guidelines of the Department's IPM programs. In addition, each individual project will require a written recommendation by a licensed Pest Control Advisor for any pesticide application.

Any questions regarding pesticide application and procedures at Recreation and Parks facilities shall be directed to the Department of Recreation and Parks and the Department's Forestry group, Vegetative Management (213) 485-4826.

In addition to the afore listed responsibilities the following precautions shall be observed in handling and applying herbicide:
1. Before applying, Contractor shall read and understand all instructions provided by the manufacturer.
2. Product shall not be used when winds are gusty or in excess of 3 miles per hour, or when any other conditions exist, which would result in drift.
3. Avoid combinations of pressure and nozzle type or adjustment that result in mist.
4. Do not apply during rain, or if rain is forecast within twelve hours. If rain occurs within twelve hour period, material must be reapplied after plant growth has dried out.
5. Contractor shall observe extreme care not to allow spray to contact desirable plant material. Use cardboard, plywood, or other appropriate material to shield plant materials outside of the treatment area from overspray.
6. Do not apply to bare ground.
7. Do not add any other products to any herbicide mix, including spreader stickers or surfactants, unless required by the label directions and approved by the Department's Pest Control Advisor (PCA).

WEED ABATEMENT: GROW AND KILL METHOD
Contractor shall follow the "grow and kill" steps set forth below:
Step 1. Clear site of all dead or living vegetative growth by hand or mechanical means.
Step 2. Thoroughly water all turf and planting areas daily to keep soil evenly moist for a period of at least two weeks.
Step 3. At the conclusion of the growth period, treat all plants within the treatment area with Roundup at an application rate of five (5) quarts of Roundup mixed in 50 gallons of clean water per acre applied by spraying. Thoroughly moisten all plant material with herbicide.
Step 4. Do not water or otherwise disturb treated areas for a period of two (2) weeks.
Step 5. After two week kill period, remove all dead plant growth. If any living plants are observed, entire plant, including roots, shall be removed by hand. Minimize physical disturbance of the soil.

WEED SUPPRESSION (NON-HERBICIDE WEED REMOVAL)
Weed suppression, shall apply to all turf and planting areas. The suppression operation shall be commenced only after removals, grading, hardscape construction, installation of irrigation system, soil preparation, and fine grading of turf and planting areas have been completed. Contractor shall thoroughly water all turf and planting areas for a period of two weeks minimum prior to commencing removal. Contractor shall clear site of all dead vegetation and living weeds by hand or mechanical means. All removed vegetation shall be properly disposed of off site and site to be inspected by the project Landscape Architect prior to commencement of work.

TREE AND SHRUB PLANTING
Plant pits for all 1 gallon, 5 gallon, 15 gallon, and all boxed size trees, shall be twice the width and equal to the depth of the container rootball. Note that this requirement differs from the SSPWC (308-4.5).

All plant pit backfill mix to be amended per Agricultural Suitibility test recommendations that had been performed by approved Lab.

Unless otherwise specified, the backfill mix for all plants shall be 60% percent on site soil and 40% percent Type I organic soil amendment and 1 lb. of "Establish," general purpose fertilizer per gallon of container, or 1 lb. per each 4" of box size. "Broadleaf P-4" water holding poylmer shall also be added to the backfill mix at the rate of 1 oz. per foot of rootball diameter. Backfill shall be native soil where native plant material is used.

Unless plant material is native, Each plant pit shall also receive "Agriform" slow release fertilizer tablets, 21 gram, 20-10-5, as shown in the relevant planting details, and as follows:
1 gallon - 1 tablet
5 gallon - 2 tablets
15 gallon - 6 tablets
Larger than 15 gallon size - 2 tablets per half inch of trunk diameter
Space tablets evenly around the perimeter of the rootball, approximately 3 inches below finish surface. After shrub or tree has been planted, water by hand to hydrate polymer.

Remove all watering basins around trees planted in lawn areas at the end of the maintenance period. All trees planted in lawn areas shall have a 36 inch diameter unplanted area around each tree.

METHOD "A" LAWN PLANTING - REPAIR, SEEDING
Irrigation trenches shall be fully compacted and the grade brought flush with the adjacent undisturbed finish grade. Irrigation trench areas and areas where equipment has damaged the existing lawn shall be seeded per this section.

Sow seed at a rate of three (3) pounds of common Bermuda per 1,000 sq. ft. and six (6) pounds of perennial ryegrass per 1,000 sq. ft. Mulch all seed with 1/4"(or 3/4 cubic yard per 1,000 sq. ft.) of Bio-organic Finale. Verify seed mix with the Project Landscape Architect prior to planting

Alternate method: Existing sod may be carefully cut, removed and reused to sod trenches after backfilling and densification.

SOD LAWN
The sod shall be machine cut to between 1/4" and 5/8" thick, not including top growth or thatch. Sod shall be laid on a grade which has been amended and finish graded in accordance with the topsoil preparation and finish lawn grading specifications of the Notice To Contractors. The sod strips shall be laid tight against the adjacent strip with adjacent ends forming a running bond pattern. After laying the sod, roll with a minimum 300 lb. water ballast roller and irrigate. The sod shall be as specified on plans.

MULCHING
All planting areas except lawn shall receive a three (3) inch deep layer of tree chip mulch per the Planting Details and this Notice to Contractor Materials list. Mulch shall be spread evenly throughout planting beds and tree watering basins. Do not bury ground cover. Mulch to be kept away crown of the root ball.

PARK PROUD LA

THE CITY OF LOS ANGELES
DEPARTMENT OF RECREATION AND PARKS
GENERAL MANAGER(INTERIM): MICHAEL A. SHULL SUPERINTEDENT: CATALINA SANTO DOMINGO
PROJECT LANDSCAPE ARCHITECT: CRAIG ALLEN RAINES LIC. NO. RLA5559
AS-BUILTS DRAWN BY: DATE:

REGISTERED LANDSCAPE ARCHITECT — Craig Allen Raines — No. 4082 — Signature — July 31, 2018 — Renewal Date — Date — STATE OF CALIFORNIA

PROJECT NAME: ***NEVIN AVENUE PARK PLAN***
ADDRESS: **1531 E 32nd St, Los Angeles, CA 90011**

REVISIONS:	DATE:
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PLAN NAME: SPECIFICATIONS

DRAWN BY: Gongying Pu	APPROVED BY: Craig Raines
SCALE: N.T.S.	ISSUE DATE:
PROJECT #: 20833	FILE NO.

DRAWING NO. TS - 0.2
SHEET OF SHEETS

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LANDSCAPE PLANTING cont.

MAINTENANCE AND PLANT ESTABLISHMENT

The Contractor/RAP Construction staff shall be responsible for maintenance within the area of work throughout the period of construction and the plant establishment period. The maintenance shall include continuous operations of watering, the removal of all weeds in planting areas and all broad leaf weeds in lawn areas, mowing, rolling, trimming, edging, cultivation, fertilization, spraying, control of pests, insects and rodents, reseeding, plant replacement (irrespective of cause), or any other operations necessary to assure normal plant growth and the collection and removal of all trash daily. Any malfunctions of, or damage to, the irrigation system caused by the Contractor or RAP staff in the prosecution of his work shall be repaired within 24 hours.

The plant establishment period shall be for a period of 49 days unless extended as described in this section. The plant establishment period shall be started when all planting and related work has been completed, in accordance with the contract documents. The beginning of the plant establishment period shall be determined by an on site review by the Department of Recreation and Parks project Landscape Architect. Trees and shrubs shall be healthy and vigorous at the completion of the maintenance period. Broken or vandalized tree stakes shall be repaired to a condition as initially installed within seven (7) days of damage.

All lawn areas shall have 95 percent coverage with bare areas not exceeding three square inches. All lawns shall be of the grass specified and be free from all broad leaf weeds. The lawn shall not be allowed to grow higher than three (3) inches and shall be mowed to a one and one half (1 ½) inch height. The lawn shall be mowed at least twice during the plant establishment period.

RAP Staff shall maintain the area of work at maximum seven (7) day intervals and perform any needed tasks to keep the plants in a optimum growing condition.

Five weeks after lawn seeding the RAP staff shall apply a slow release 38-0-0 granular fertilizer at a rate of 15 pounds per 1000 sq. ft. to all lawn areas. The fertilizer shall be applied in the presence of the Department of Recreation and Parks.

The RAP staff shall immediately replace any and all plant materials and/or grass which, for any reason dies or is damaged while under the Contractors care. Replacement shall be made with seed and/or plants as indicated or specified for the original planting.

All shrubs and ground covers shall be guaranteed for a period of ninety (90) days from the end of the plant establishment period. All trees and shrubs 15 gallon size or larger shall be guaranteed for a period of one (1) year from the end of the plant establishment period.

The designated plant establishment period is part of the total contract time. The plant establishment period will be extended at fourteen (14) day intervals if, at the end of the plant establishment period, the planting, irrigation and other improvements that do not reflect the intent of the plans .

GENERAL ELECTRICAL REQUIREMENTS

GENERAL

DESCRIPTION

A. Comply with all provisions of the General Conditions, Supplementary Conditions and General Requirements as applicable to work of all Sections of Division 16 (CSI) concerning definitions, guarantees, submittals, as-builts, clean-up, etc.

B. ALL WORK TO BE DONE IN ACCORDANCE WITH THE STANDARD SPECIFICATIONS FOR PUBLIC WORKS CONSTRUCTION (SSPWC) UNLESS OTHERWISE SPECIFIED.

C. All work of this Division shall be coordinated with work of other trades.

SCOPE

D. Required: Provide all labor, materials, equipment, tools and appliances required to furnish and install all electrical work as required for the project. Submit drawings of intended system. Drawings should include but are not limited to the following:

1. All construction power and lighting and power for testing equipment and systems through final acceptance of test.
2. Power and lighting service raceway(s) underground from the property line to (an on-site padmount transformer) (an on-site transformer vault) the main service switchboard(s). A ( )ampere, ( )volts, ( )phase, ( )wire underground supply from the transformer(s) to) (the main service switchboard(s)). Note: Parenthesis with double underlining indicate choices to be made by the specifier.
3. Complete lighting and power system(s) including branch circuits, fixtures, outlets, lamps, switches, controllers, and auxiliary equipment.
4. Complete distribution system(s) including switchboards, panelboards, transformers, feeders, and auxiliary equipment.
5. Complete system of exterior (vandal resistant) lighting.
6. Underground service conduits from property line to ____________.
7. Complete Grounding System.
8. Complete Intercom System(s)
   a. Telephone system, including service raceways, cabinets, backboards, grounding, and ac power provisions.
   b. Television antenna and coaxial cable distribution system.
9. Distribution for emergency power system including but not limited to a central battery inverter, lighting panelboard and branded circuit wiring.
10. Conduit System including backboards, pullboxes, wiring devices, grounding, etc. for the following as applicable:
    c. Telephone System
    d. Television antenna and coaxial cable distribution.
11. Control wiring and devices for equipment specified in Sections of Division 16 and other Technical Sections, except where specifically indicated.
12. Complete and Operable Fire Alarm System.
13. Connection and testing of electrical equipment and controls specified in Division 16 and other technical sections, except where specifically indicated or noted elsewhere on the Contract Drawing or in the Specifications.
14. Applicable excavating, trenching and backfilling.

WORK NOT INCLUDED

E. Furnishing all electrical or partially electrically devices related uniquely to mechanical equipment and only as specified in the Mechanical Division 15.

F. Furnishing and installing of all motors.

LEGAL REQUIREMENTS AND STANDARDS

G. **Required**: Comply with the latest, as applicable and effective, during the progress of Contracted Work.

14. Latest Los Angeles City Electrical, Fire and Building Codes and U.B.C. Supplement.
15. California State Administrative Code, Title 24, State Building Standard.
16. (CAL/OSHA) California State Occupational Safety and Health Act.
17. California State Fire Marshal Standards.
18. Los Angeles City Department of Water and Power.
19. U.L. - Underwriters Laboratories Inc.
20. NEC - National Electric Code.
21. ASTM - American Society of Testing and Materials.
22. Current publications of the National Fire Protection Association.
23. National and American Standards Association.

H. **General Compliance As Applicable**

24. Drawings and specification requirements shall govern where they exceed Code requirements.
25. Where requirements between governing Codes and Regulations vary, the more restrictive provision shall apply.
26. Nothing contained in Contract Documents shall be construed as authority or permission to disregard or violate legal requirements.

GENERAL REQUIREMENTS

I. **Permits and Inspections:**

27. Apply and pay for all required electrical work (construction and installation) prescribed by legally constituted public authorities.
28. Arrange and pay for all required inspections or examinations and shall deliver "certifications" of such inspections to the Architect or City Engineer prior to acceptance of the electrical work. Obtain approved plans from the Los Angeles City Department of Building and Safety.

J. **Site Inspections:**

29. Carefully examine the job-site and existing facilities and prepare the Contract Drawings for work coordination.
30. By act of submitting bid, it will be deemed the Contractor has made required inspections and has accepted such job-site conditions and has made allowances thereof in the preparation of "Bid" figures.

K. **Verification of Dimensions**: All dimensions (scaled, figured or noted) are approximate, given for estimating purposes. Before proceeding with work Contractor shall carefully check and verify all dimensions, sizes, etc. and shall assume full responsibility for proper fitting in and attachment of all materials and equipment to other equipment and to the structure.

L. **Examination of the Contract Drawings**:

31. No contract drawings are provided. Contractor to provide all relative documentation required successfully install electrical system. Plans shall be stamped by a licensed, by the state of California, Electrical Engineer.

M. **Substitutions:**

32. Items, articles or products named on the Contract Drawings and in the Specifications are intended to establish a standard of quality and required functional performance.

N. **Submittals:**

33. Prepare, review and coordinate schedule of submittals, determining necessary lead time for preparation, submitting, checking, and ordering and delivering materials and equipment to the job-site for timely arrival and conformance with the overall Construction schedule.
34. All submittals will be checked for general compliance with Specifications only.
35. Shop drawings shall be submitted in completed groups of materials (i.e., all lighting fixtures or all switchgear, etc.). The Contractor shall add and sign the following paragraph on all equipment and materials submitted for review.
    e. "It is hereby certified that the (equipment) (material) shown and marked in this submittal is that proposed to be incorporated into the project; is in compliance with the Contract Drawings and Specifications and can be installed in the allocated spaces".
    f. Failure to add the above written statement for compliance will result in return of submittals to be reviewed.
36. All required submittals on electrical items and equipment shall include complete catalog information such as construction ratings, insulation systems, including manufacturer's certification that items or equipment meet or exceed U.L. and Trade Standards, and the Specifications.
37. Equipment Floor Plans: Submit after approval of material and/or equipment is secured. Prepare for each electrical equipment room drawn to 2" = 1'0" scale. Layout drawing shall be to exact scale.

* 6. Materials list of items and equipment proposed to be provided for the work of this Division 16 and shall include the following as applicable:

g. Service and distribution switchgear.
h. Motor control centers.
i. Central battery inverter.
j. Lighting panelboards.
k. Dry type transformers.
l. Conduits.
m. Conductors.
n. Electrical equipment layout at 2" = 1'-0" scale indicating exact dimensions of equipment, clearances, housekeeping pads.
o. Disconnect switches, pull boxes and fuses.
p. Lighting fixtures.
q. Fire alarm and detection system.
r. Control devices, standard and special receptacles, switches and finish device plates.
s. Cabinets for signal and telephone systems, special terminals and cables.
t. Vibration isolators, including lateral and vertical seismic restraints.
u. All fabricated equipment.

u.Clock and program system.

v.Time clocks, contactors, control switches, etc. including wiring diagrams and sequence of operation.

O. **Special Submissions:**

38. Test Reports For The Following:
    w.Ground fault devices.
    x. Megger Readings: Ground system, motors, feeders and switchgear.
    y. Voltage Readings: Distribution, service and motors.
    z. Fire alarm system.
39. Maintenance service and operating manuals for all equipment.
40. Items as outlined in other Sections.

P. **"No Exceptions Taken":** Be responsible for equipment ordered and/or installed prior to receipt of shop drawings returned from the Architect bearing the Electrical Engineer's stamp of "No Exceptions Taken". Corrections or modifications to equipment as noted on shop drawings shall be performed or equipment removed from the job site at request of Architect without additional compensation.

Q. **Disapprovals:** Any article or equipment supplied by the Contractor disapproved by the Architect or City Engineer as not conforming to the Specifications or not of proper quality or grade or suitability shall be deleted and suitable article or equipment be provided in lieu thereof in conformance with the Specifications at no added cost to the City.

R. **Terminology**:

***Note:** Specifier should name at least two manufacturers plus the words "or equal".

S. **Contract Drawings**: Make such drawings sufficiently complete for the proper installation and operation of the proposed materials or equipment, and for construction by all of the involved trades of the proposed revisions.

The cost of the drawings and any revisions to them do to review process comments shall be borne by the Contractor.

T. **Record Drawings**: Provide as-built record drawings for all work done. See also applicable provisions of THE GENERAL REQUIREMENTS.

U. **Operation and Maintenance Manuals**: Prior to final acceptance of Contracted Work by the City, furnish 4 bound copies of operation and maintenance manuals for each electrical equipment, as required in this Section. The contents shall include description of equipment, names of manufacturers, parts lists, model numbers, maintenance schedules, location of nearest facility for replacement parts or service, wiring and connection diagrams, internal schematic drawings, and other electrical/mechanical data necessary for operation and maintenance.

TREE PRESERVATION SPECIFICATIONS

These tree specifications shall be followed to protect all trees whose dripline is encroached upon either directly or indirectly by construction within City parks.

A Recreation and Parks Arborist shall be invited to the Job Start Meeting and also notified 48-hours prior to construction. Contact Steve Dunlap (213) 485-4826.

In compliance with the Migratory Bird Treaty Act and California Fish and Game Code Sections 3503 and 3503.5, tree removal activities would take place outside of the nesting bird season (February 1 to September 1) to the extent feasible. In accordance with these regulatory requirements, efforts would be made to schedule removal of mature trees between September 2 and January 31 to avoid the nesting bird season. If activities were to occur during the nesting bird season all suitable habitats would be thoroughly surveyed for the presence of nesting birds by a qualified biologist (or a qualified arborist) within three days prior any tree removal. If any active nests are detected, the area will be flagged, and a minimum 250 foot (500 foot for raptors) non-disturbance buffer would be established (a modification of this buffer would be determined by the monitoring biologist and in consultation with US Fish and Wildlife Service and California Department of Fish and Wildlife), and would be avoided until the nesting cycle has been completed and the monitoring biologist determines that the nest has fledged.

GENERAL REQUIREMENTS

1. No equipment is to be operated or parked under a tree, nor are any materials to be stored within the dripline of a tree or leaned against a tree trunk. Do not pile or compact soil within a dripline.
2. In areas of construction, protect soil surface from traffic compaction with 3” of mulch or overlapping 3/4” plywood sheets.
3. No surface irrigation shall be installed within the dripline of a tree.
4. All work shall be in accordance with the City of Los Angeles Oak tree ordinance.
5. No chemical herbicides are to be used within 100 ft. of a tree's dripline.
6. Do not nail grade stakes or anything else to trees.
7. Encroachment from paving or structures within the dripline of a tree shall be permitted only with written authorization from the Department's Arborist. No encroachment within 10' of a tree trunk will be permitted under any circumstances.
8. Do not strip topsoil around trees. Any vegetation to be removed should be removed by cutting at ground level rather than pulling out by equipment.
9. Use a pneumatic drill to excavate under woody roots larger than 2” in diameter. Do not cut any root larger than 2” diameter. If roots must be severed, cuts are to be made by an arborist and soil backfilled immediately.
10. Any approved pruning shall be authorized by the Department of Recreation and Parks and done by a qualified Arborist.
11. If any contractor is unsure of a tree to remain in place or to be removed they are to contact the Department of Recreation and Parks Project Landscape Architect immediately and prior to taking any action.

TYPICAL WORK PROCEDURES

All work around any existing oak trees shall follow this work procedures program. This program has been developed to minimize the impacts to each tree and protect them from unscheduled damage.

1. All work within a tree's root zone shall be observed by the Recreation and Parks Arborist.
2. The extent of all work affecting any Oaks shall be staked by field survey and reviewed with the Recreation and Parks Arborist prior to construction.
3. Any approved pruning of Oaks shall be done by a Recreation and Parks Arborist prior to the start of construction.
4. No Irrigation trenching shall pass closer than eight (8) feet of the base of any tree. Hand dig vertical trench at the final cut line to final grade and cleanly cut any roots encountered and seal with approved tree seal.
   (This procedure will protect the root system from unnecessary damage by excavation equipment).
5. A five (5) foot high chain link fence shall be constructed at the limit of approved work to protect the trees from further unauthorized damage and remain in place until completion of construction.
6. No further work within the root zone shall be done beyond that which was approved, without obtaining written approval from the
7. Recreation and Parks Arborist prior to proceeding. No roots over two (2) inches in diameter are to be cut during the course of construction without the approval of the Department of Recreation and Parks', Forestry Division.
8. The area within the chain link fence shall not be used for material or equipment storage or parking during construction.
9. During construction, the impacted trees should be closely monitored to further mitigate shock symptoms if they occur. The contractor should be prepared to provide temporary water to irrigate and wash the dust from foliage if needed. Contact a Recreation and Parks Arborist if a decline in tree condition is noted.
10. Recreation and Parks Arborist Steve Dunlap (213) 485-4826 is available to answer any general questions regarding trees in parks.

DAMAGES

If a tree that is designated to remain is removed or caused to be irreversibly damaged as determined by the Recreation and Parks Arborist, install a replacement tree matching in caliper dimension, size, quality and variety of the tree that was dmaged/removed. Use an installer designated by the Recreation and Parks Arborist. If an acceptable replacement tree is not available, pay damages to the City for the value of the damaged tree as assessed by the tree value formula in the ISA Guide for Establishing Value of Trees and Other Plants.

IMPLEMENTATION

Please direct questions about Oak tree construction issues to Recreation and Parks Planning Development (213) 202-2649. The qualifications of Oak tree consultants shall also be reviewed prior to report preparation. If pruning is required, contact Laura Bauernfeind at (213) 485-3674.

EXISTING TREES

All trees to remain in place shall be protected using the following guidelines as developed by the Dept. of Recreation and Park's Forestry division.

(END OF SECTION)

CITY OF LOS ANGELES · DEPARTMENT OF RECREATION AND PARKS

PARK PROUD LA

THE CITY OF LOS ANGELES
DEPARTMENT OF RECREATION AND PARKS

GENERAL MANAGER(INTERIM): MICHAEL A. SHULL SUPERINTEDENT: CATALINA SANTO DOMINGO

PROJECT LANDSCAPE ARCHITECT: CRAIG ALLEN RAINES LIC. NO. RLA5559

AS-BUILTS DRAWN BY: ______ DATE: ______

REGISTERED LANDSCAPE ARCHITECT · CraigAllenRaines · No. 4082 · Signature · July 31, · Renewal Date · 2018 · Date · STATE OF CALIFORNIA

PROJECT NAME: ***NEVIN AVENUE PARK PLAN***

ADDRESS: **1531 E 32nd St, Los Angeles, CA 90011**

REVISIONS:	DATE:
△	
△	
△	
△	
△	
△	

PLAN NAME: SPECIFICATIONS

DRAWN BY: Gongying Pu	APPROVED BY: Craig Raines
SCALE: N.T.S.	ISSUE DATE:
PROJECT #: 20833	FILE NO.

DRAWING NO. TS - 0.3

SHEET OF SHEETS

PRODUCED BY AN AUTODESK STUDENT VERSION
PRODUCED BY AN AUTODESK STUDENT VERSION
PRODUCED BY AN AUTODESK STUDENT VERSION

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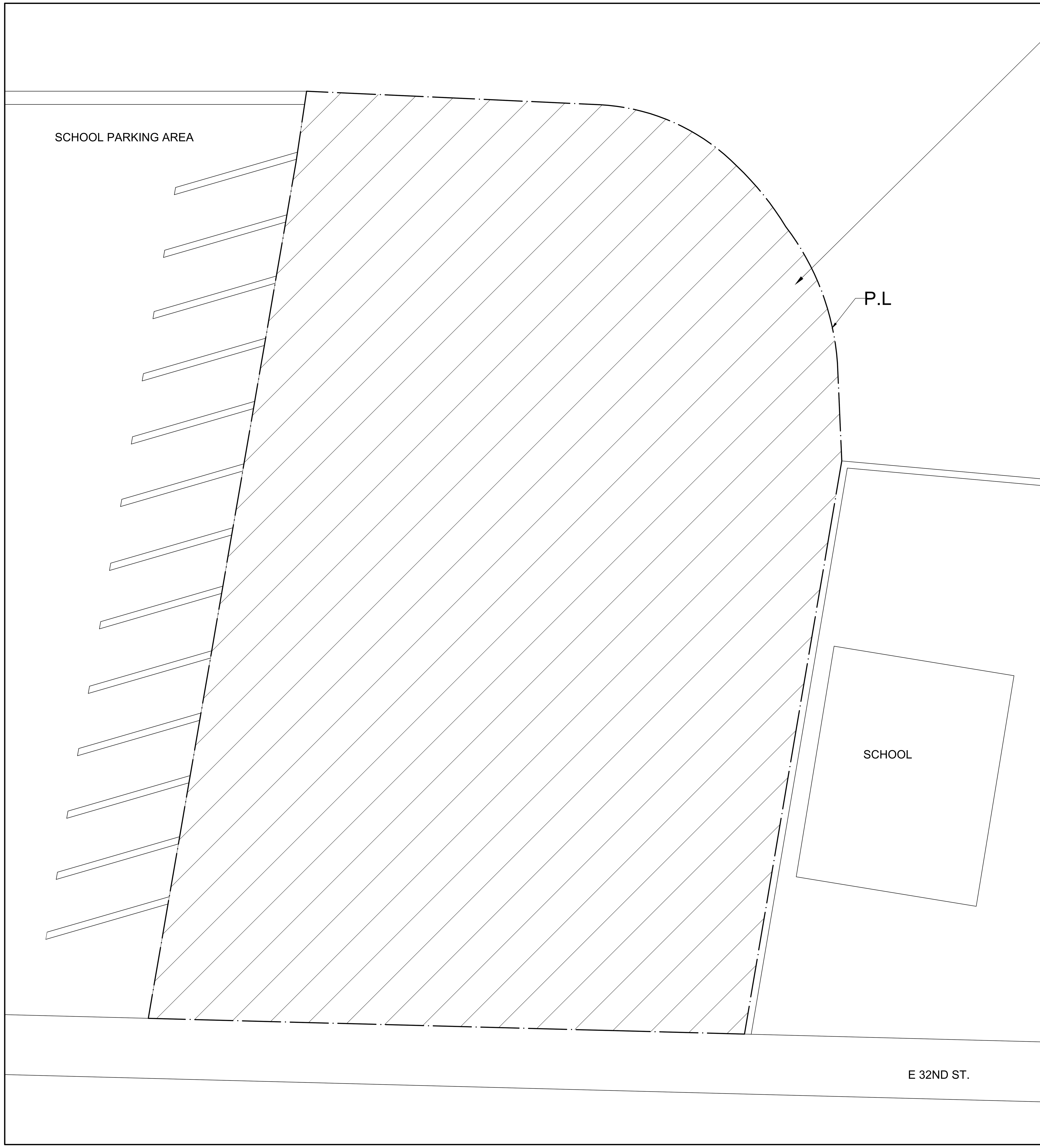

REMOVE THE TOP 2' OF SOIL.
ALL DEMOLISHED MATERIAL SHALL BE TAKEN TO AN APPROVED FACILITY FOR SUCH. KETTLEMAN LANDFILL 35251 OLD SKYLINE RD KETTLEMAN CITY , CA 93239: 1-559-386-6195 OR BHENRY3@WM.COM
WORK TO BE DONE PER PROVIDED SMP
FINAL FINISH GRADE SHALL BE PER PROVIDED SMP AND SHALL NOT EXCEED 2% FLOW IN ANY DIRECTIONS: FILL

AREA: 11,963 SQ.FT/890 CU/YDS CUT
AREA: 11,963 SQ.FT/890 YD1000 CU/YDS OF FILL
FILL TO BE PER SMP REPORT.

CONTRACTOR TO IS RESPONISBILE FOR PULLING ALL NECESSARY PERMITS.

NORTH

0 10 20 30
SCALE:1/8"=10'-0"

PARK PROUD LA

THE CITY OF LOS ANGELES
DEPARTMENT OF RECREATION AND PARKS
GENERAL MANAGER: MICHAEL A. SHULL
ASSISTANT GEN. MANAGER: RAMON BARAJAS
PROJECT LANDSCAPE ARCHITECT: CRAIG RAINES LIC. NO. 4082
PROJECT ENGINEER: LIC. NO.
AS-BUILTS DRAWN BY: DATE:

PROJECT NAME:
NEVIN AVENUE PARK
ADDRESS:
1531 E 32nd St, Los Angeles, CA 90011

REVISIONS:	DATE:
△	
△	
△	
△	
△	
△	

PLAN NAME:
ROUGH GRADING PLAN

DRAWN BY: GY.P	APPROVED BY: CRAIG.RAINES
SCALE: 1/8"=1'-0"	ISSUE DATE:
PRJ # 20833	FILE NO.

DRAWING NO.
LS-1.0
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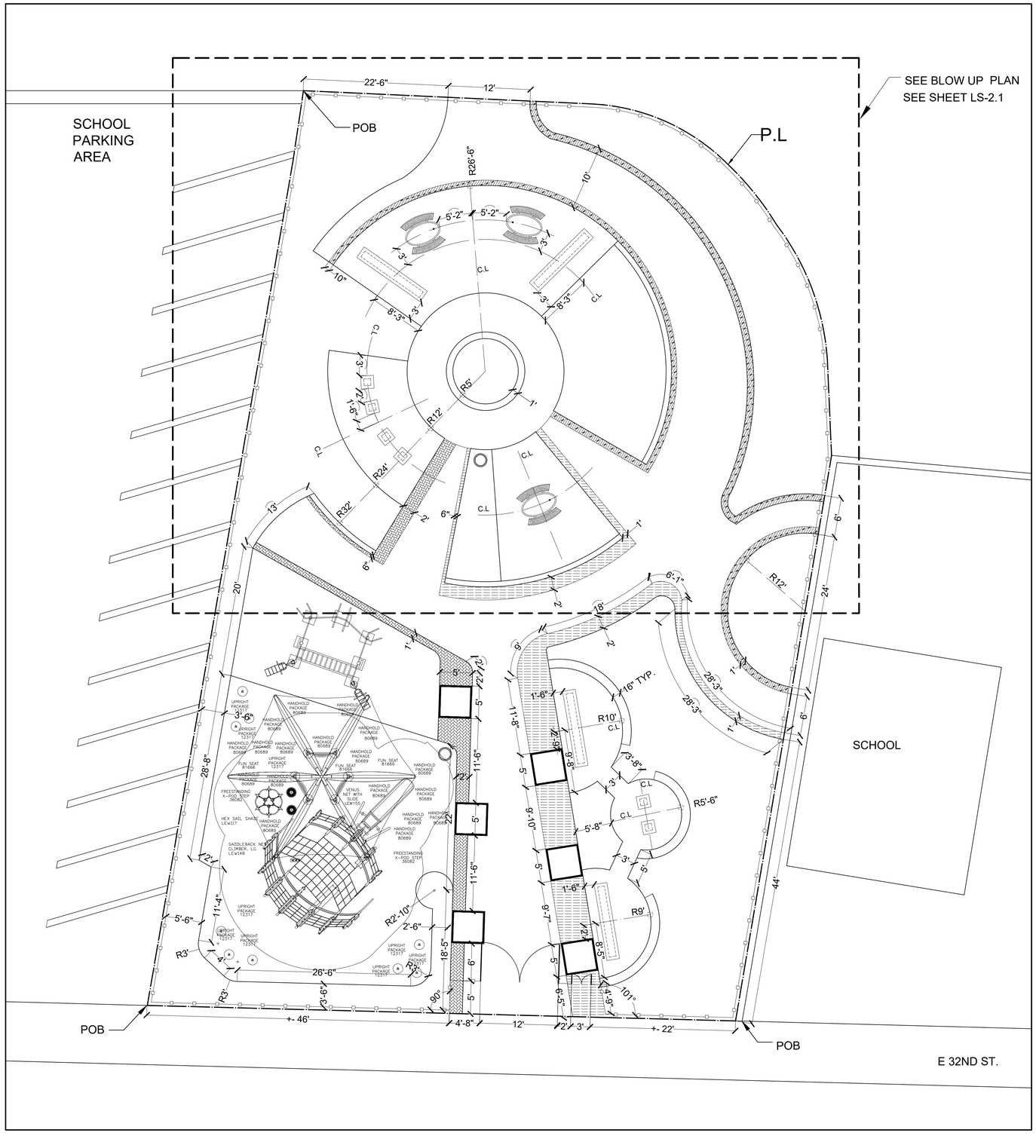

NOTE:

LAYOUT OF ALL PROPOSED SITE ELEMENT WILL BE DONE UNDER THE SUPERVISION OF THE PROJECT LANDSCAPE ARCH IN RAP.

NORTH

SCALE:1/8"=10'-0"

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REVISION DATE: 4/12/2021 8:17 AM FILE: O:\ARCH_ENG\NEVIN AVENUE PARK\CDS\NEVIN CDS\NEVIN AVENUE PARK .DWG

PARK PROUD LA

THE CITY OF LOS ANGELES
DEPARTMENT OF RECREATION AND PARKS

GENERAL MANAGER: MICHAEL A. SHULL ASSISTANT GEN. MANAGER: RAMON BARAJAS

PROJECT LANDSCAPE ARCHITECT: CRAIG RAINES LIC. NO 4082

PROJECT ENGINEER: LIC. NO:

AS-BUILTS DRAWN BY: DATE:

No. 4082 Signature Mar 31st, 2021 Date

PROJECT NAME: **NEVIN AVENUE PARK**

ADDRESS: **1531 E 32nd St, Los Angeles, CA 90011**

REVISIONS: DATE:

PLAN NAME: LAYOUT PLAN

DRAWN BY: GY.P	APPROVED BY: CRAIG.RAINES
SCALE: 1/8"=1'-0"	ISSUE DATE:
PRJ # 20833	FILE NO.

DRAWING NO. LS-2.0

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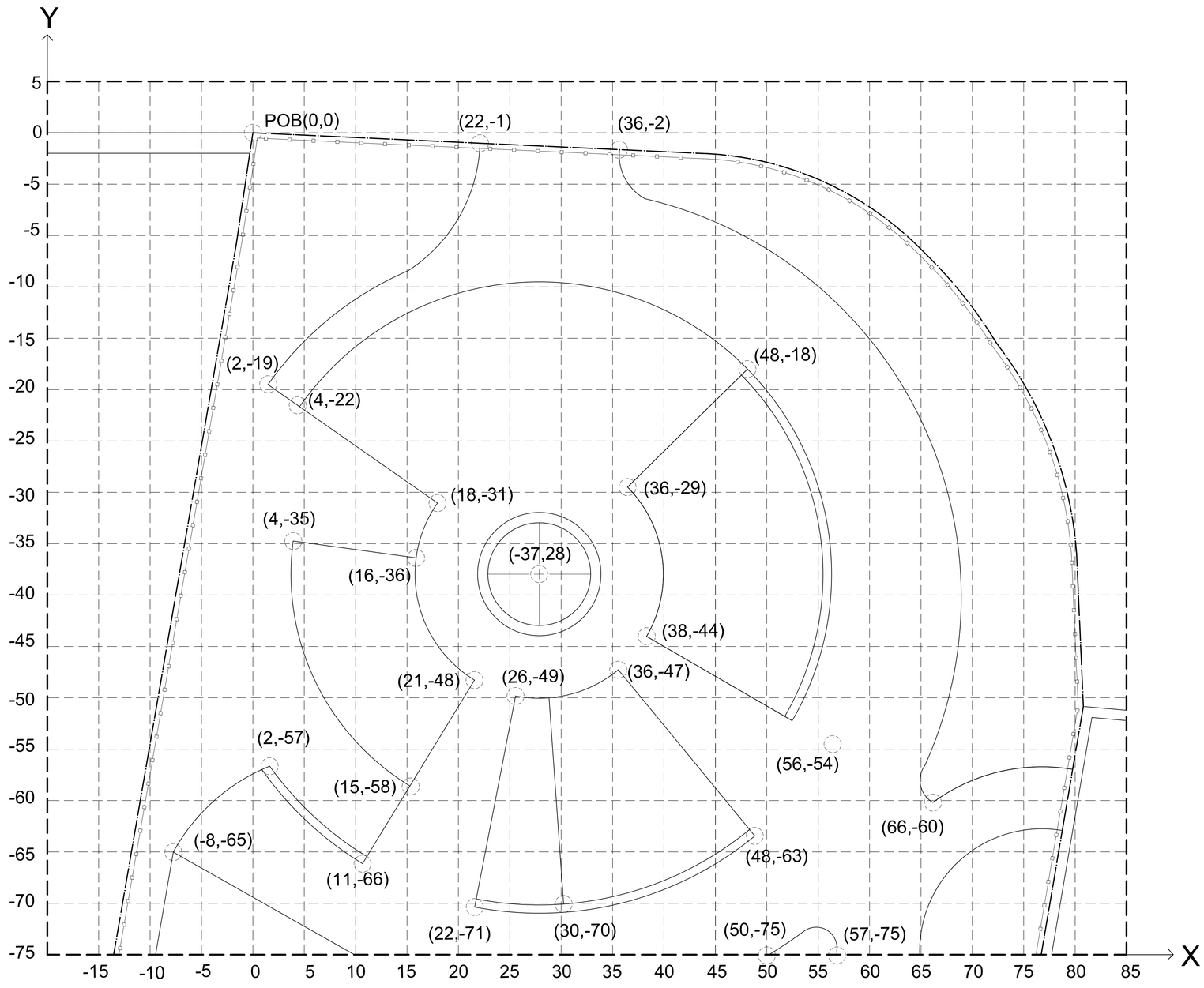

BLOW UP PLAN SEE SHEET LS-2.0

NOTE:

LAYOUT OF ALL PROPOSED SITE ELEMENT WILL BE DONE UNDER THE SUPERVISION OF THE PROJECT LANDSCAPE ARCH IN RAP.

PARK PROUD LA

THE CITY OF LOS ANGELES
DEPARTMENT OF RECREATION AND PARKS

GENERAL MANAGER: MICHAEL A. SHULL ASSISTANT GEN. MANAGER: RAMON BARAJAS

PROJECT LANDSCAPE ARCHITECT: CRAIG RAINES LIC. NO. 4082

PROJECT ENGINEER: LIC. NO.

AS-BUILTS DRAWN BY: DATE:

No. 4082 Signature Date: July 31, 2017

PROJECT NAME:
NEVIN AVENUE PARK

ADDRESS:
1531 E 32nd St, Los Angeles, CA 90011

REVISIONS: DATE:

PLAN NAME:
BLOW UP PLAN

DRAWN BY: GY.P	APPROVED BY: CRAIG.RAINES
SCALE: 3/16"=1'-0"	ISSUE DATE:
PRJ # 20833	FILE NO.

DRAWING NO.
LS-2.1

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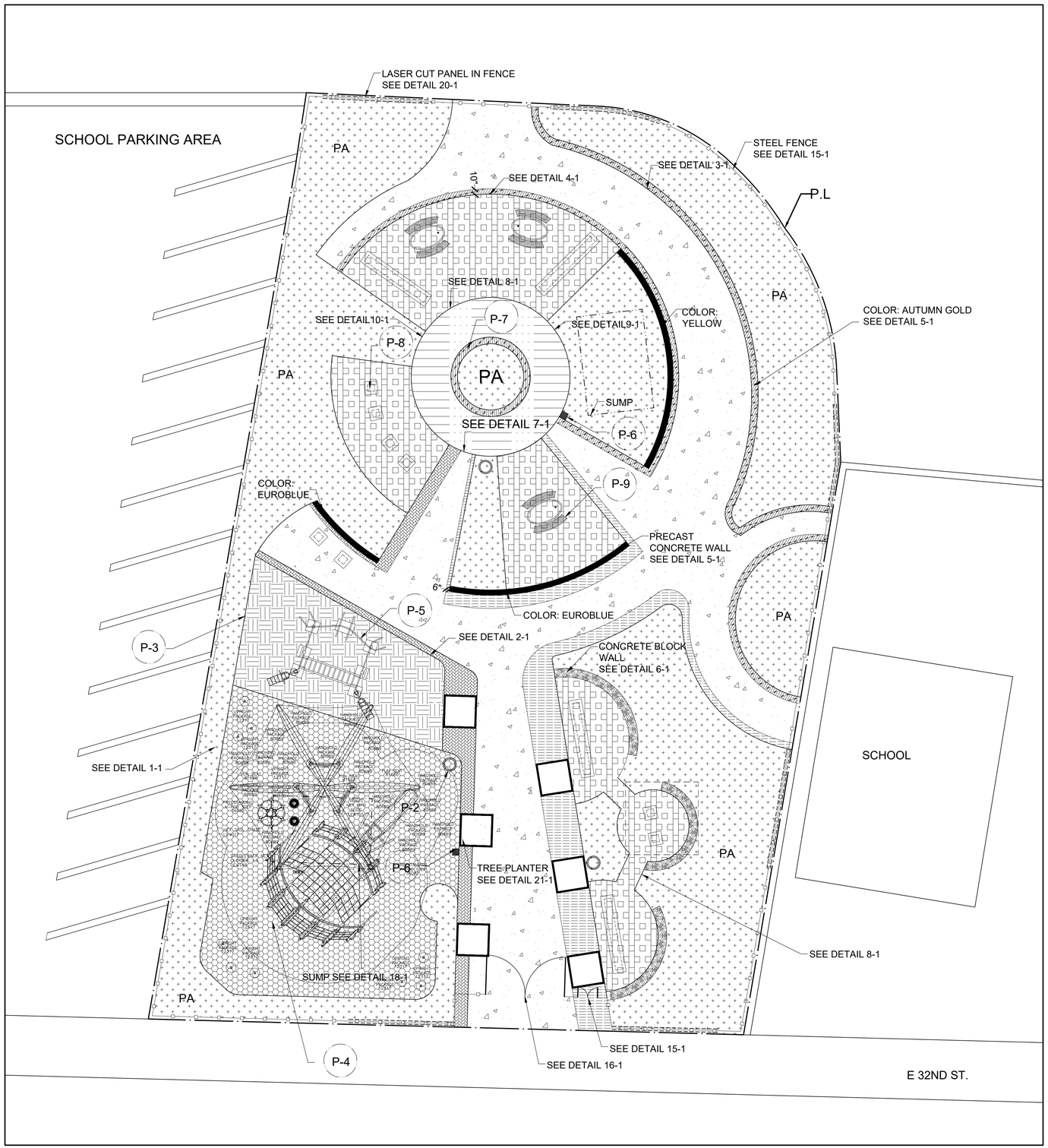

MATERIALS LEGEND:

SYMBOL	NAME	SOURCES	SQ.F	DETAIL
	LIGHT GRAY EXPOSED AGGREGATE FINISH CONCRETE PAVERS	THE BOMANITE COMPANY OR APPROVED EQUAL	2416	
	RESILIENT SURFACE WEAR COURSE: TOT TURF STANDARD 1-4mm TVP COLOR: AZURE BLUE, TYP.	GAME TIME OR APPROVED EQUAL	832	
	RESILIENT SURFACE WEAR COURSE: TOT TURF STANDARD 1-4mm TVP COLOR: LIGHT GREEN, TYP.	GAME TIME OR APPROVED EQUAL	92	
	RESILIENT SURFACE WEAR COURSE: TOT TURF STANDARD 1-4mm TVP COLOR: ORANGE, TYP.	GAME TIME OR APPROVED EQUAL	70	
	RESILIENT SURFACE WEAR COURSE: TOT TURF STANDARD 1-4mm TVP COLOR: BRIGHT YELLOW, TYP.	GAME TIME OR APPROVED EQUAL	497	
	RESILIENT SURFACE WEAR COURSE: TOT TURF STANDARD 1-4mm TVP COLOR: BABY PINK, TYP.	GAME TIME OR APPROVED EQUAL	118	
	RESILIENT SURFACE WEAR COURSE: TOT TURF STANDARD 1-4mm TVP COLOR: LIGHT PURPLE, TYP.	GAME TIME OR APPROVED EQUAL	69	
	RANDOM SIZED ARTO ROMAN PAVEMENT	BOURGET FLAGSTONE CO. OR APPROVED EQUAL	1029	
	MOUNTAIN BLUESTONE VERSAILLES PATTERN PAVEMENT	BOURGET FLAGSTONE CO. OR APPROVED EQUAL	345	
	COLORFUL GLASS LITHOCRETE PAVERS COLOR: ORANGE 07-219	HTTP://WWW.LITHOCRETE.COM OR APPROVED EQUAL	252	
	COLORFUL GLASS LITHOCRETE PAVERS COLOR: YELLOW 07-081B	HTTP://WWW.LITHOCRETE.COM OR APPROVED EQUAL	455	
	COLORFUL GLASS LITHOCRETE PAVERS COLOR: BLUE 07-310	HTTP://WWW.LITHOCRETE.COM OR APPROVED EQUAL	272	

SYMBOL NUMBER	MODEL NUMBER	USE ZONE	RESOURCE
P-1-X	SHADE STRUCTURES		USA SHADE COMPANY OR APPROVED EQUAL
P-2	READING 55 GALLON LITTER RECEPTACLE WITH DOOR, SO 17498	SEE DETAIL 14-1	KEYSTONE RIDGE DESIGNS INC OR APPROVED EQUAL
P-3			GREENFIELDS OUTDOOR FITNESS OR APPROVED EQUAL
P-4	MODEL NUMBER: PT18008 SHADOWFAX		GAME TIME OR APPROVED EQUAL
P-5	SHP2009-5-14, 13-PERSON CROSS FITNESS RIG		GREENFIELDS OUTDOOR FITNESS OR APPROVED EQUAL
P-6	DRINGKING FOUNTAIN: Murdock HI-LO DF-btl flr: GYQ84-CV-IAP-RAP	SEE DETAIL 13-1	
P-7	CONCRETE SITTING WALL	SEE DETAIL 11-1	
P-8	SOCRATES BENCH 24" BENCH 95" BENCH	CONTACT FOR SHOP DRAWINGS	LANDSCAPE FORMS COMPANY OR APPROVED EQUAL
P-9	SILVER METALLIC CHARLIE TABLE	SEE DETAIL 12-1	LANDSCAPE FORMS COMPANY OR APPROVED EQUAL
==========	CUSTOM LASER CUT PANEL FENCE (TOTAL 6)	SEE DETAIL 20-1	https://artisanpanels.com/

NORTH

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SCALE:1/8"=10'-0"

PARK PROUD LA

THE CITY OF LOS ANGELES
DEPARTMENT OF RECREATION AND PARKS

GENERAL MANAGER: MICHAEL A. SHULL ASSISTANT GEN. MANAGER: RAMON BARAJAS

PROJECT LANDSCAPE ARCHITECT: CRAIG RAINES — LIC. NO. 4862
PROJECT ENGINEER: — LIC. NO.
AS-BUILTS DRAWN BY: — DATE:

No. 4862 Signature Renewal Date: JUN 31, 2017 Civil

PROJECT NAME: **NEVIN AVENUE PARK**

ADDRESS: **1531 E 32nd St, Los Angeles, CA 90011**

REVISIONS:	DATE:

PLAN NAME: MATERIAL PLAN

DRAWN BY: GY.P	APPROVED BY: CRAIG RAINES
SCALE: 1/8"=1'-0"	ISSUE DATE:
PRJ # 20833	FILE NO.

DRAWING NO. LS-3.0

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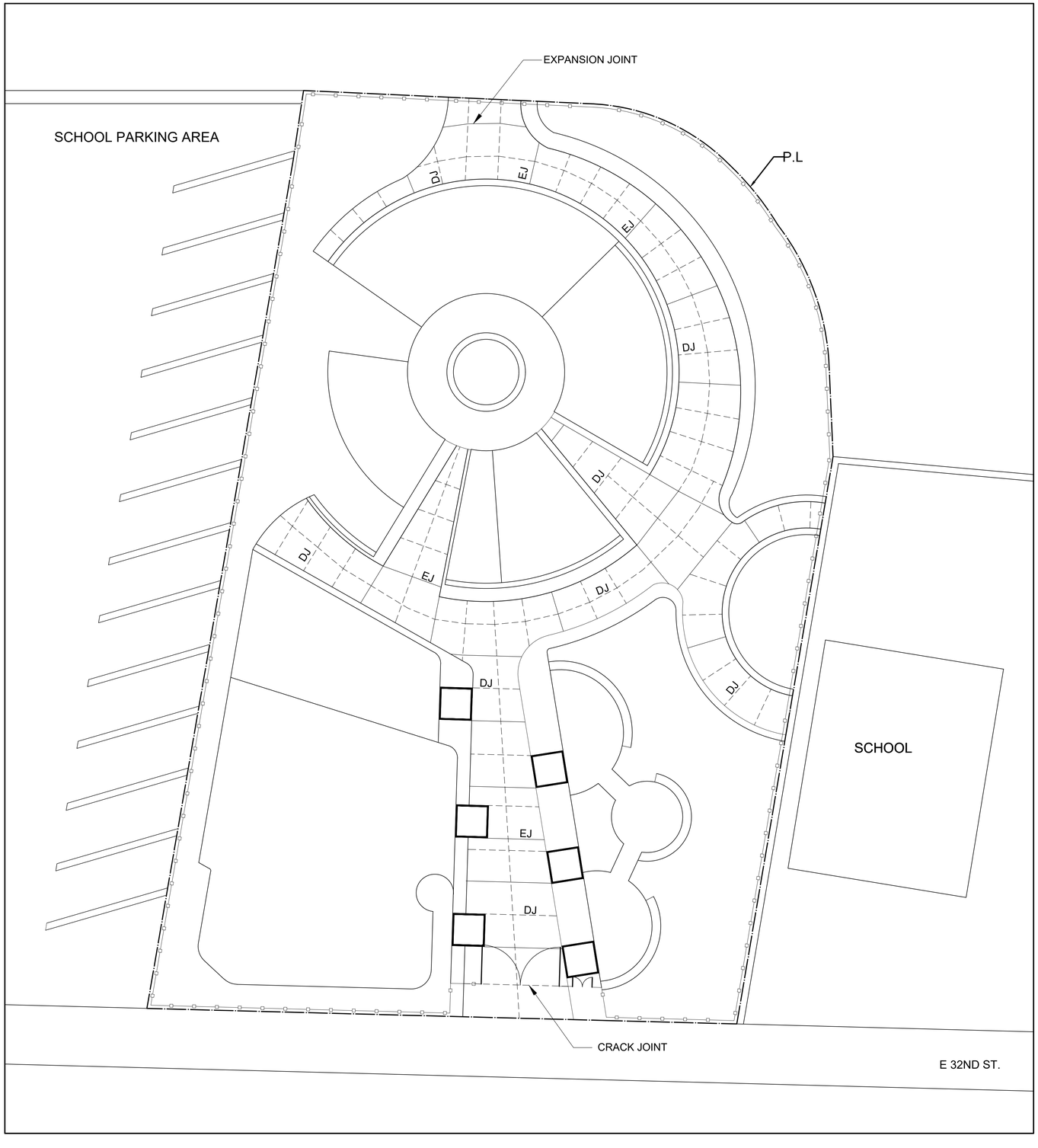

LEGEND

EXPANSION JOINT

CRACK JOINT

NORTH

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REVISION DATE: 4/12/2021 8:17 AM FILE: O:\ARCH_ENG\NEVIN AVENUE PARK\CDS\NEVIN CDS\NEVIN AVENUE PARK .DWG

PARK PROUD LA

THE CITY OF LOS ANGELES
DEPARTMENT OF RECREATION AND PARKS

GENERAL MANAGER: MICHAEL A. SHULL ASSISTANT GEN. MANAGER: RAMON BARAJAS

PROJECT LANDSCAPE ARCHITECT: CRAIG RAINES LIC. NO. 4882

PROJECT ENGINEER: LIC. NO.

AS-BUILTS DRAWN BY: DATE:

No. 4882 Signature Renewal Date July 31, 2021 Date

PROJECT NAME:
NEVIN AVENUE PARK

ADDRESS:
1531 E 32nd St, Los Angeles, CA 90011

REVISIONS: DATE:

PLAN NAME:
CRACK LINE PLAN

DRAWN BY: GY.P	APPROVED BY: CRAIG.RAINES
SCALE: 1/8"=1'-0"	ISSUE DATE:
PRJ # 20833	FILE NO.

DRAWING NO.
LS-4.0

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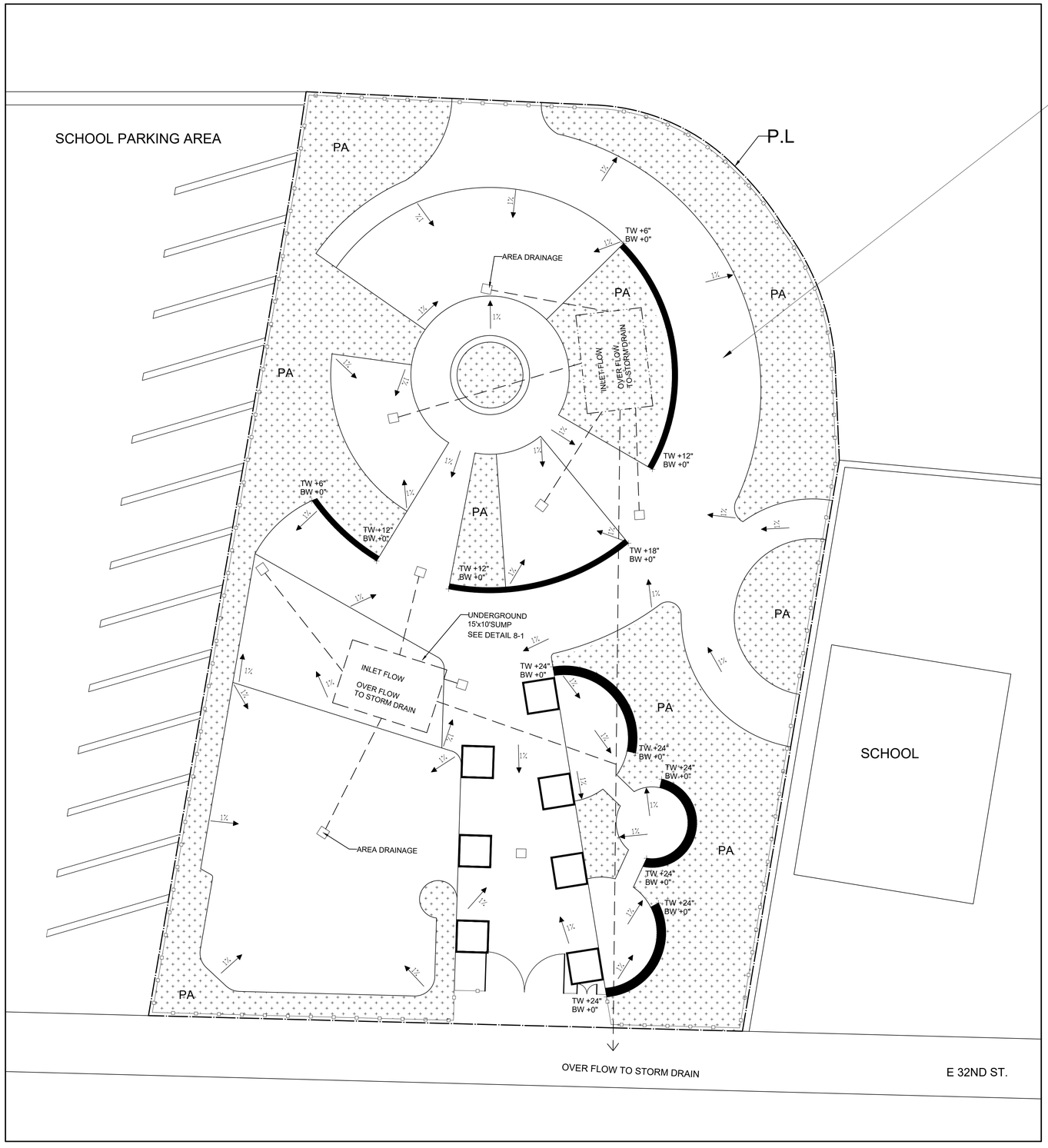

CONTRACTOR TO PROVIDE FILL SOIL PER, PROVIDED SMP, REPORT. SEE SHEET LS-1.0

NORTH

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SCALE:1/8"=10'-0"

REVISION DATE: 4/12/2021 8:17 AM FILE: O:\ARCH_ENG\NEVIN AVENUE PARK\CDS\NEVIN CDS\NEVIN AVENUE PARK .DWG

PARK PROUD LA

THE CITY OF LOS ANGELES
DEPARTMENT OF RECREATION AND PARKS

GENERAL MANAGER: MICHAEL A. SHULL ASSISTANT GEN. MANAGER: RAMON BARAJAS

PROJECT LANDSCAPE ARCHITECT: CRAIG BAINES LIC. NO. 4982

PROJECT ENGINEER: LIC. NO.

AS-BUILTS DRAWN BY: DATE:

No. 4982 Signature Registered Date Jan 31, 2017

PROJECT NAME:
NEVIN AVENUE PARK

ADDRESS:
1531 E 32nd St, Los Angeles, CA 90011

REVISIONS: DATE:

PLAN NAME:
DRAINAGE PLAN

DRAWN BY: GY.P	APPROVED BY: CRAIG.RAINES
SCALE: 1/8"=1'-0"	ISSUE DATE:
PRJ # 20833	FILE NO.

DRAWING NO.
LS-5.0

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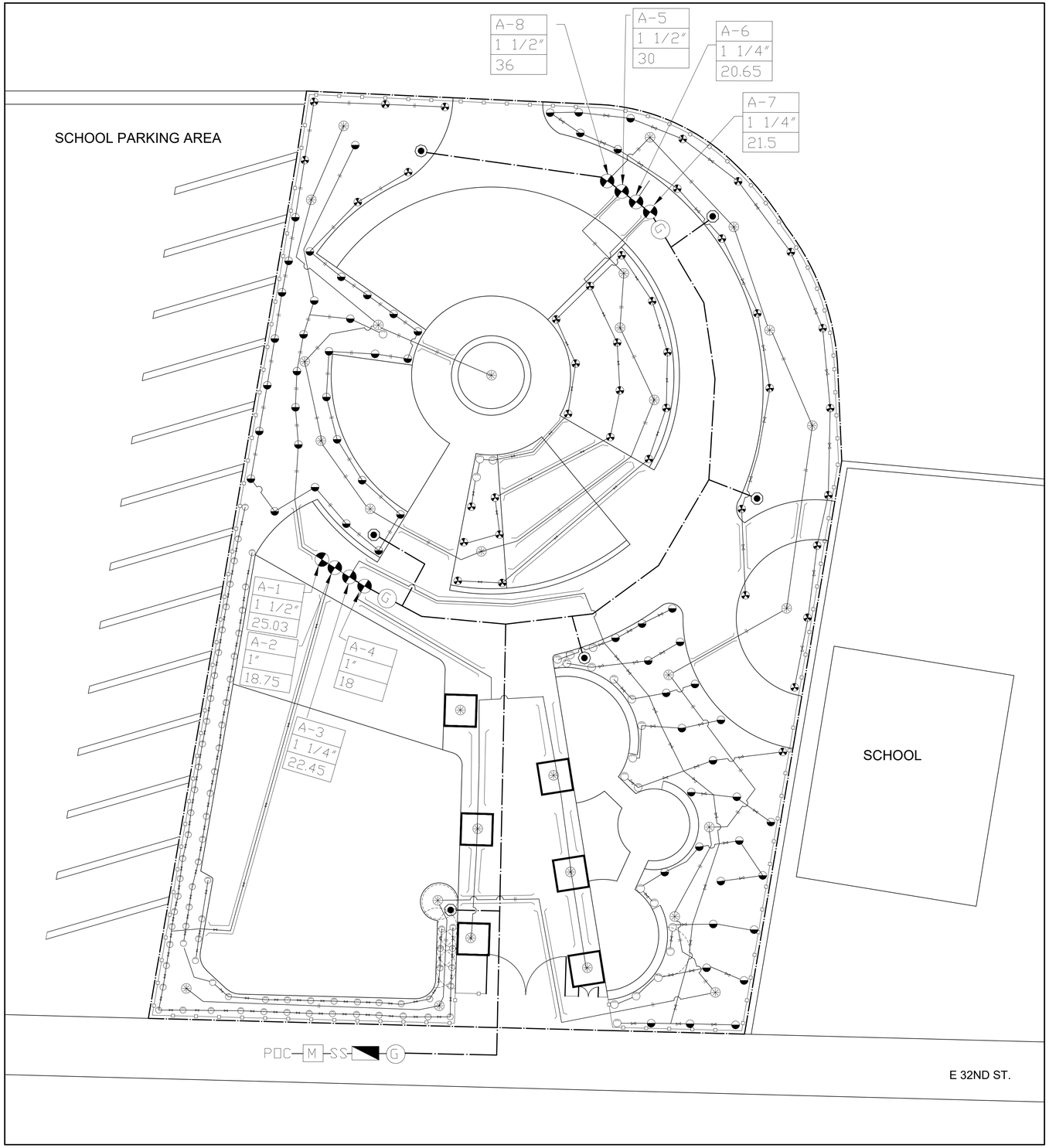

SYMBOL	QUANTITY	MANUFACTURER/MODEL/ DESCRIPTION	DEGREE	PSI	GPM	RADIUS	REMARKS
	69	1800 Series Spray Heads 8 Series HE-VAN	180	30	0.41-0.59	5'-8'	ADJUST ARC AND RADIUS AS NEEDED
	98	1800 Series Spray Heads 12 Series HE-VAN	180	30	0.84-1.18	9'-12'	ADJUST ARC AND RADIUS AS NEEDED
	94	1400 Series Pressure Compensating Bubbler	180	30	0.25	1'-3'	ADJUST ARC AND RADIUS AS NEEDED
	38	Rainbird Deep Water Tree Bubbbler			3		ADJUST ARC AND RADIUS AS NEEDED
G	3	NIBCO T-113 OR APPROVED EQUALCLASS 125 BRONZE GATE SHUT OFF VALVE WITH WHEEL HANDLE, SAME SIZE AS PIPE DIAMETER, SIZE RANGE: 3/4"-1 1/2"					INSTALL PER DETAIL SEE SHEET LS-06
		BUCKNER SUPERIOR 950 BRASS INDUSTRIAL ELECTRIC REMOTE CONTROL VALVE,SEE PLAN CALLOUT FOR VALVE SIZE.					INSTALL PER DETAIL SEE SHEET LS-06
		BUCKNER SUPERIOR 950 BRASS INDUSTRIAL ELECTRIC REMOTE CONTROL VALVE,SEE PLAN CALLOUT FOR VALVE SIZE.					INSTALL PER DETAIL SEE SHEET LS-06
	1	NETAFIM LOW VOLUME CONTROL ZONE KIT LCVZS8010075 - LOW FLOW KIT WITH 1" CONTROL VALVE					
		LATERAL LINE, P.V.C. SCH. 40; SOLVENT WELD, SIZE AS NOTED ON PLAN.					INSTALL PER DETAIL SEE SHEET LS -06
		NEW PRESSURE MAIN LINE, P.V.C. SCH. 40, MIN. 2" DIA.					
	6	RAINBIRD 44LRC OR APPROVED EQUAL. 1" QUICK COUPLING VALVE, TWO PIECE BODY WITH LOCKING COVER					
	1	NEW BACKFLOW ENCLOSURE					INSTALL PER DETAIL SEE SHEET LS -06
M		FEBCO 825YD 2" REDUCED PRESSURE TYPE BACKFLOW DEVICE WITH LINE SIZE "Y" STRAINER AND BERMAD #790 BURST CONTROL VALVE.					INSTALL PER DETAIL SEE SHEET LS-06
		RAINBIRD: ESP LXME - 12 STATION W/ ENCLOSURE					USE PVC CONDUIT FOR WIRE BURIAL (NO DIRECT BURIAL) INSTALL IN METAL ENCLOSURE PER DETAIL SEE SHEET LS -9

PVC PIPE SIZING

1 1/4" PIPE

1" 1/2" PIPE

2" MAINLINE

PRESSURE LOSS CALCULATION GPM

INFO. SOURCE: PH. NO.

VALVE NUMBER A-1 IRRIG. TYPE MPR GPM 0.0

STATIC WATER PRESSURE @ WATER METER 65.0 (High 77)

SIZE	DESCRIPTION	Length	PSI loss/100'	GPM	LOSS
2"	SERVICE LINE			30.0	
		Length	PSI loss/100'		
2"	WATER METER			30.0	
3"	BACKFLOW PREVENTER			30.0	
1 1/2"	MASTER VALVE			30.0	10.00
1 1/2"	FLOW SENSOR			30.0	
1 1/2"	PRESSURE REGULATOR			30.0	
	GATE / BALL VALVE			30.0	
1 1/2"	REMOTE CONTROL VALVE			30.0	
		Length	PSI loss/100'	GPM	
3"	MAINLINE	0	1.10	110.0	0.00
		Length	PSI loss/100'	GPM	loss
2"	MAINLINE	65	1.74	1.0	1.13
		Length	PSI loss/100'	GPM	loss
1 1/2"	LATERAL LINE	274	2.28	30.0	6.2472
		Length	PSI loss/100'	GPM	Loss
1 1/4"	LATERAL LINE	0	2.72	22.0	0
		Length	PSI loss/100'	GPM	Loss
1"	LATERAL LINE	0	3.70	12.0	0
		Length	PSI loss/100'	GPM	Loss
3/4"	LATERAL LINE	0	4.50	7.0	0
		Length	PSI loss/100'	GPM	Loss
2"	LATERAL LINE	0			0
PVC LATERAL LINE FITTING LOSS (10%)					0.00
TOTAL FRICTION LOSS					17.4
ELEVATION @ METER		0.0	HEAD ELEVATION	0.0	
ELEVATION DIFFERENCE		0.0	x 0.433	0.00	± 0.0
PSI REQUIRED AT HEAD					0.0

TOTAL PSI REQUIRED 27.4

REGULATED PRESSURE @ POC (IF APPLICABLE) 0.0

RESIDUAL PRESSURE (MUST BE POSITIVE) 37.6

TOAL AVAILABLE WILL BE 37.6 PSI.

NORTH

0 10 20 30

SCALE:1/8"=10'-0"

PARK PROUD LA

THE CITY OF LOS ANGELES
DEPARTMENT OF RECREATION AND PARKS

GENERAL MANAGER: MICHAEL A. SHULL ASSISTANT GEN. MANAGER: RAMON BARAJAS

PROJECT LANDSCAPE ARCHITECT: CRAIG RAINES LIC. NO. 4982

PROJECT ENGINEER: LIC. NO.

AS-BUILT/DRAWN BY: DATE:

No. 4982 Signature Renewal Date 08/31/2021 Landscape Architect

PROJECT NAME: **NEVIN AVENUE PARK**

ADDRESS: **1531 E 32nd St, Los Angeles, CA 90011**

REVISIONS:	DATE:

PLAN NAME: IRRIGATION PLAN

DRAWN BY: GY.P	APPROVED BY: CRAIG.RAINES
SCALE: 1/8"=1'-0"	ISSUE DATE:
PRJ # 20833	FILE NO.

DRAWING NO. LS-6.0

SHEET OF SHEETS

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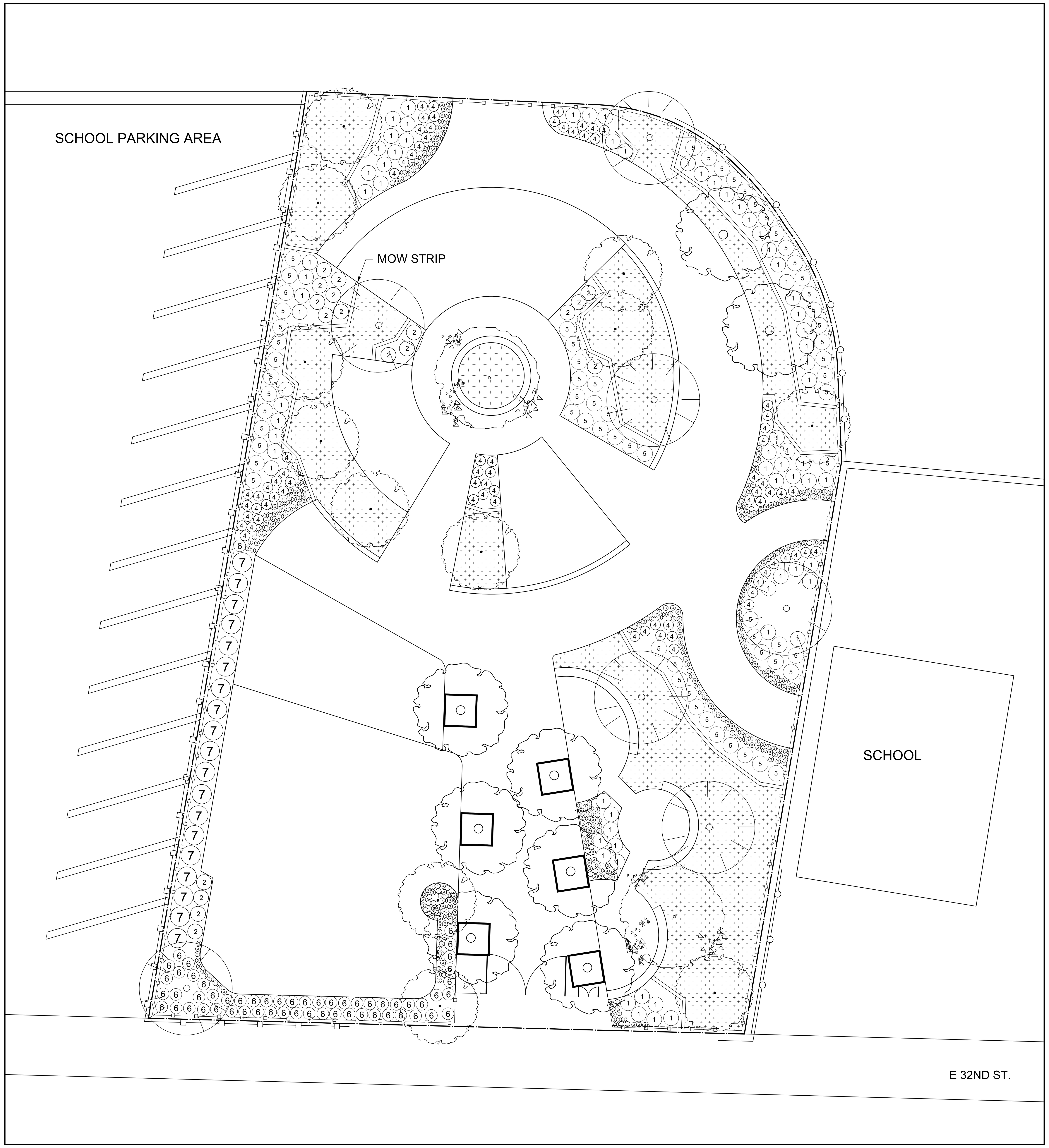


TREES:

SYMBLE	BOTANICAL NAME	COMMON NAME	SIZE	QUANTITY	RESOURCE
	PARKINSONIA ACULEATA	PALO VERD	36" BOX	12	San marcos growers or approved equal
	UMBELLULARIA CALIFORNICA	CALIFORNIA BAY TREE	48" BOX	2	San marcos growers or approved equal
	JACARANDA MIMOSIFOLIA	JACARANDA	48" BOX	7	Missouri botanical garden or approved equal
	QUERCUS SHUMARDII	SHUMARD OAK	36" BOX	8	San marcos growers or approved equal

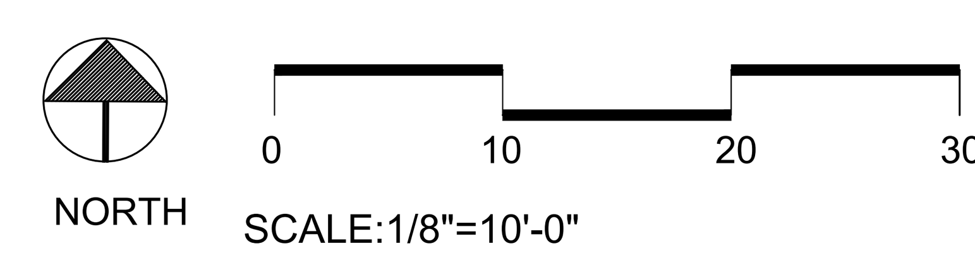
SHRUBS:

SYMBLE	BOTANICAL NAME	COMMON NAME	SIZE	SPC COLUMN	QUANTITY	RESOURCE
1	Encelia californica	California Bush Sunflower	5 Gal.	5'	71	San marcos growers or approved equal
2	Agapanthus 'Elaine' PP7,303	Lily of the Nile	5 Gal.	5'	18	San marcos growers or approved equal
3	Cerastium tomentosum	Snow-in-summer	1 Gal.	2'	343	Missouri botanical garden or approved equal
4	Lavandula angustifolia	English Lavender	5 Gal.	5'	67	San marcos growers or approved equal
5	Rhaphiolepis indica 'Clara'	Indian Hawthorn	5 Gal.	5'	74	San marcos growers or approved equal
6	Anigozanthos manglesii	Kangaroo paw	1 Gal.	2'	82	San marcos growers or approved equal
7	Frangula Californica	California Coffeeberry	5 Gal.	5'	19	San marcos growers or approved equal

VINES:

SYMBLE	BOTANICAL NAME	COMMON NAME	RESOURCE
	DISTICTIS LAXIFLORA	VANILLA TRUMPET VINE	San marcos growers or approved equal
	DISTICTIS BUCCINATORIA	RED TRUMPET VINE	San marcos growers or approved equal

TURF



SCALE:1/8"=10'-0"

PARK PROUD LA

THE CITY OF LOS ANGELES
DEPARTMENT OF RECREATION AND PARKS

GENERAL MANAGER: MICHAEL A. SHULL
ASSISTANT GEN. MANAGER: RAMON BARAJAS

PROJECT NAME:
NEVIN AVENUE PARK

ADDRESS:
1531 E 32nd St, Los Angeles, CA 90011

REVISIONS: DATE:

PLAN NAME:
PLANTING PLAN

DRAWN BY: GY.P
APPROVED BY: CRAIG.RAINES
SCALE: 1/8"=1'-0"
ISSUE DATE:
PRJ # 20833
FILE NO.

DRAWING NO.
LS-7.0

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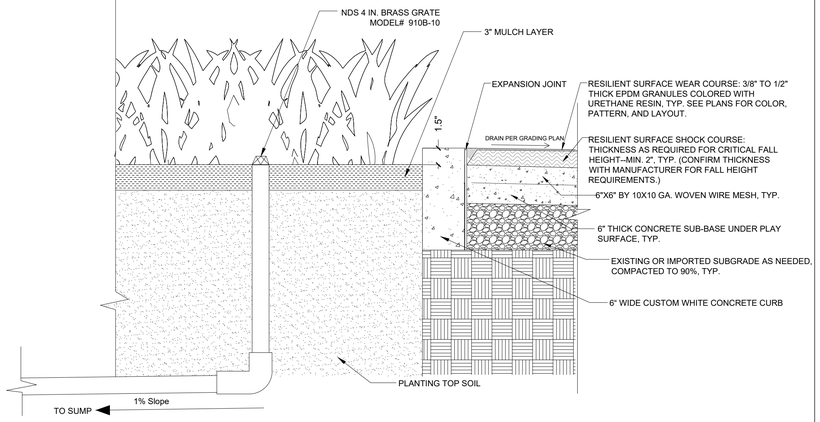
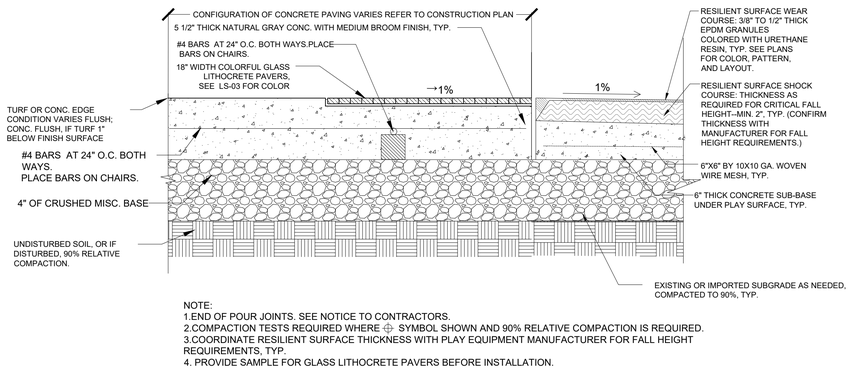
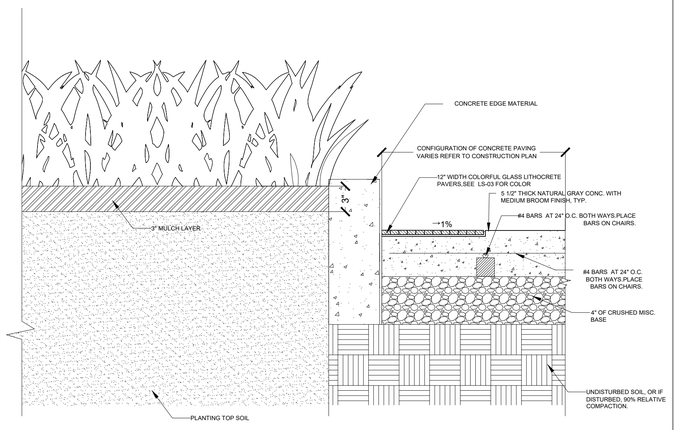


1-1 PLANTS&RESILIENT SURFACE 1 1/2"=1'-0"

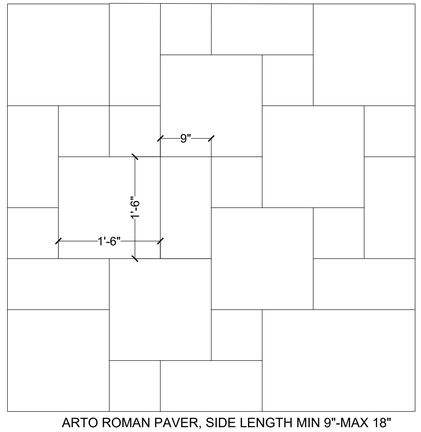


NOTE:
1.END OF POUR JOINTS. SEE NOTICE TO CONTRACTORS.
2.COMPACTION TESTS REQUIRED WHERE ⊕ SYMBOL SHOWN AND 90% RELATIVE COMPACTION IS REQUIRED.
3.COORDINATE RESILIENT SURFACE THICKNESS WITH PLAY EQUIPMENT MANUFACTURER FOR FALL HEIGHT REQUIREMENTS, TYP.
4. PROVIDE SAMPLE FOR GLASS LITHOCRETE PAVERS BEFORE INSTALLATION.

2-1 GLASS LITHOCRETE PAVERS IN CONCRETE PAVING BESIDES RESILIENT SURFACE 2"=1'-0"

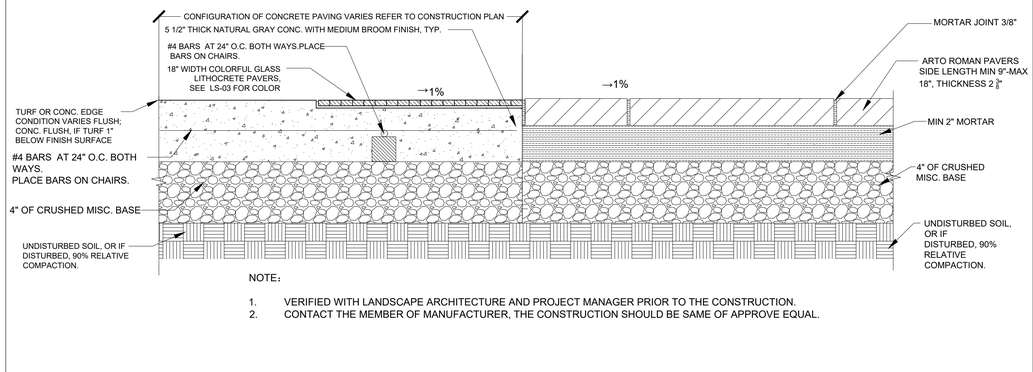


3-1 GLASS LITHOCRETE PAVERS IN CONCRETE PAVING BESIDES PLANTS 1 1/2"=1'-0"



ARTO ROMAN PAVER, SIDE LENGTH MIN 9"-MAX 18"

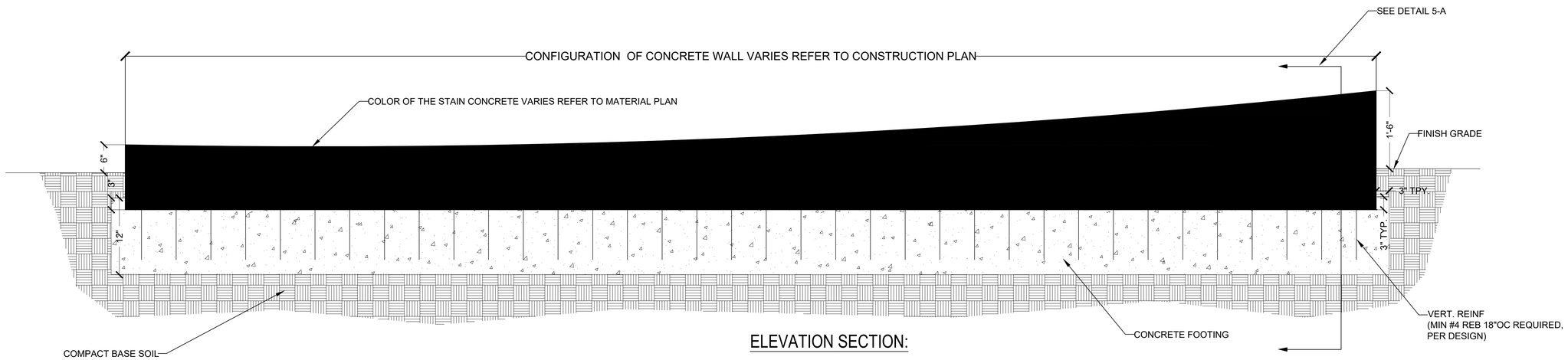
4-1 RANDOM SIZED ARTO ROMAN PAVEMENT 1"=1'-0"



NOTE:

1. VERIFIED WITH LANDSCAPE ARCHITECTURE AND PROJECT MANAGER PRIOR TO THE CONSTRUCTION.
2. CONTACT THE MEMBER OF MANUFACTURER, THE CONSTRUCTION SHOULD BE SAME OF APPROVE EQUAL.

4-2 GLASS LITHOCRETE PAVERS IN CONCRETE PAVING BESIDES RANDOM SIZED ARTO ROMAN PAVEMENT 2"=1'-0"



ELEVATION SECTION:

NOTES:

1. CONSTRUCTOR TO PAVED 3'X3' SAMPLE OF STAIN CONCRETE SENT TO LA PRIOR TO WALL COAT.
2. THE STAIN CONCRETE COLOR REFER TO THE DAVIS COLOR WEBSITE.

5-1 POUR IN PLACE CONCRETE WALL 1"=1'-0"

PARK PROUD LA

THE CITY OF LOS ANGELES
DEPARTMENT OF RECREATION AND PARKS

GENERAL MANAGER: MICHAEL A. SHULL ASSISTANT GEN. MANAGER: RAMON BARAJAS

PROJECT LANDSCAPE ARCHITECT: CRAIG RAINES LIC. NO. 4082
PROJECT ENGINEER: LIC. NO.
AS-BUILTS DRAWN BY: DATE

No. 4082 Signature Renewal Date: July 31, 2017 Date

PROJECT NAME: NEVIN AVENUE PARK
ADDRESS: 1531 E 32nd St, Los Angeles, CA 90011

REVISIONS: DATE:

PLAN NAME: DETAILS

DRAWN BY: GY.P	APPROVED BY: CRAIG.RAINES
SCALE:	ISSUE DATE:
PRJ # 20833	FILE NO.

DRAWING NO. LS-8.0

SHEET OF SHEETS

REVISION DATE: 4/12/2021 8:17 AM FILE: O:\ARCH_ENG\NEVIN AVENUE PARK\CDS\NEVIN CDS\NEVIN AVENUE PARK .DWG

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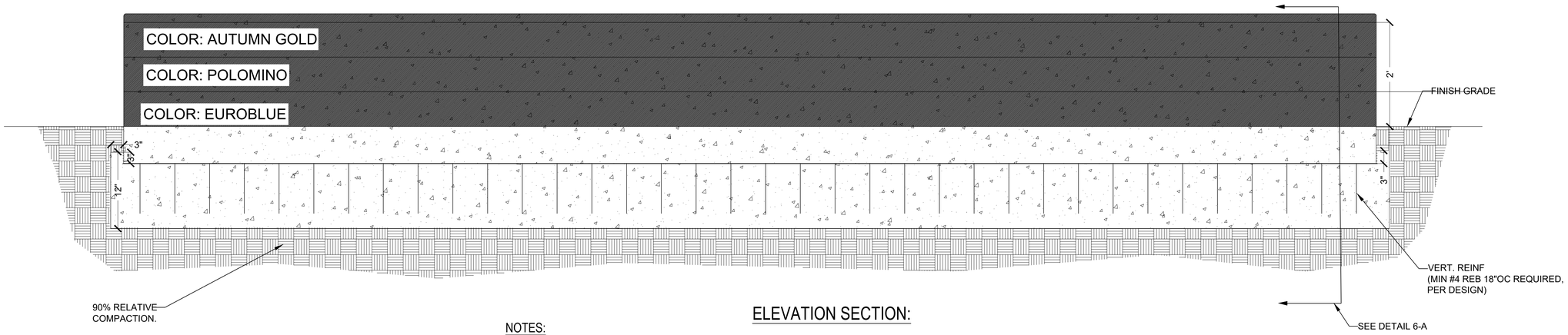
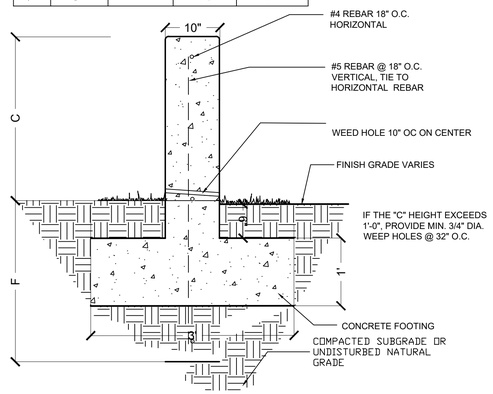


ELEVATION SECTION:

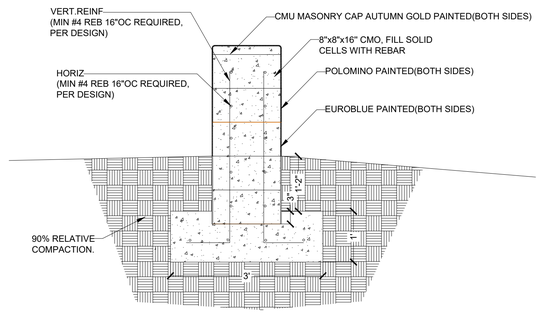
NOTES:
1. CONSTRUCTOR TO PAVED 3'X3' SAMPLE OF STAIN CONCRETE SENT TO LA PRIOR TO WALL COAT.
2. THE STAIN CONCRETE COLOR REFER TO THE DAVIS COLOR WEBSITE.

6-1 BLOCK CONCRETE WALL 1"=1'-0"

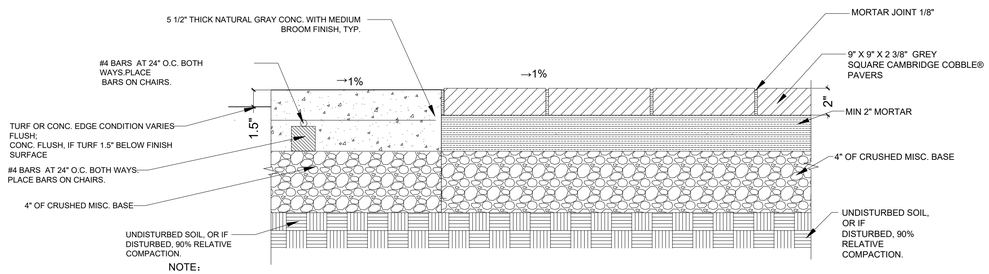
CURB WALL SCHEDULE				
C	0" TO 6"	6" TO 1'	1' TO 1' 6"	1' 6" TO 2'
F	6"	1'	1' 6"	2'



5-A POUR IN PLACE CONCRETE STAIN WALL 1"=1'-0"

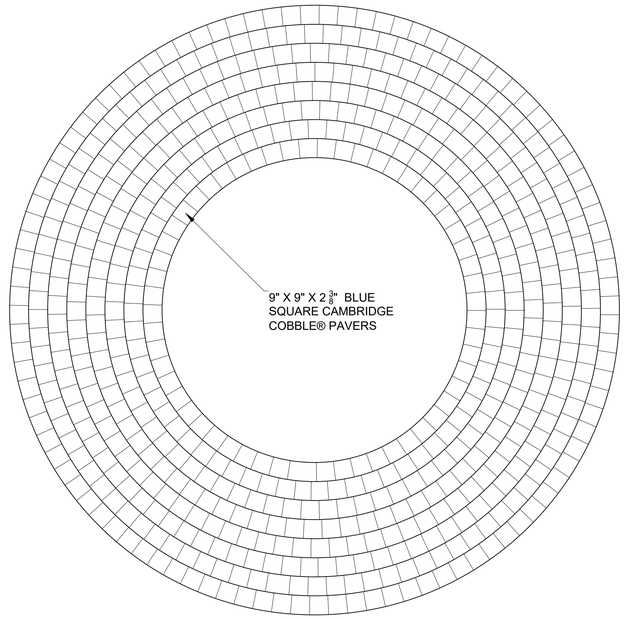


6-A BLOCK CONCRETE WALL 3/4"=1'-0"



NOTE:
1. VERIFIED WITH LANDSCAPE ARCHITECTURE AND PROJECT MANAGER PRIOR TO THE CONSTRUCTION.
2. CONTACT THE MEMBER OF MANUFACTURER, THE CONSTRUCTION SHOULD BE SAME OF APPROVE EQUAL.

7-1 CONCRETE PAVING BESIDES CAMBRIDGE COBBLE PAVER 2"=1'-0"



7-A BLOW UP OF CENTRAL GATHERING SPACE 3/8"=1'-0"

REVISION DATE: 4/12/2021 8:17 AM FILE: O:\ARCH_ENG\NEVIN AVENUE PARK\CDS\NEVIN CDS\NEVIN AVENUE PARK .DWG

PARK PROUD LA

THE CITY OF LOS ANGELES
DEPARTMENT OF RECREATION AND PARKS

GENERAL MANAGER: MICHAEL A. SHULL ASSISTANT GEN. MANAGER: RAMON BARAJAS
PROJECT LANDSCAPE ARCHITECT: CRAIG RAINES LIC. NO. 4892
PROJECT ENGINEER: LIC. NO.
AS BUILTS DRAWN BY: DATE:

No. 4082 Signature Renewal Date: July 31, 2017 Landscape Architect

PROJECT NAME: **NEVIN AVENUE PARK**
ADDRESS: **1531 E 32nd St, Los Angeles, CA 90011**

REVISIONS:	DATE:

PLAN NAME: DETAILS

DRAWN BY: GY.P	APPROVED BY: CRAIG.RAINES
SCALE:	ISSUE DATE:
PRJ # 20833	FILE NO.

DRAWING NO. LS-9.0

SHEET OF SHEETS

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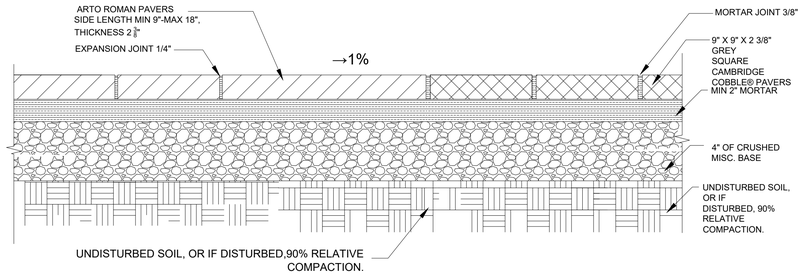
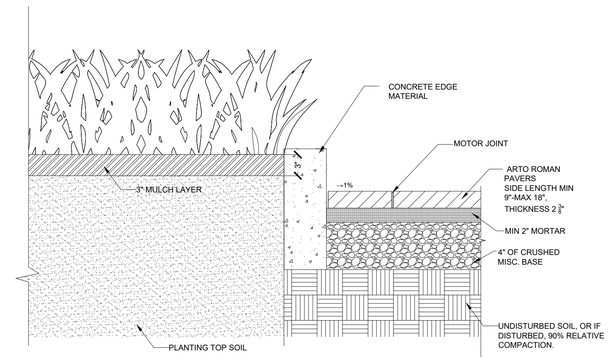


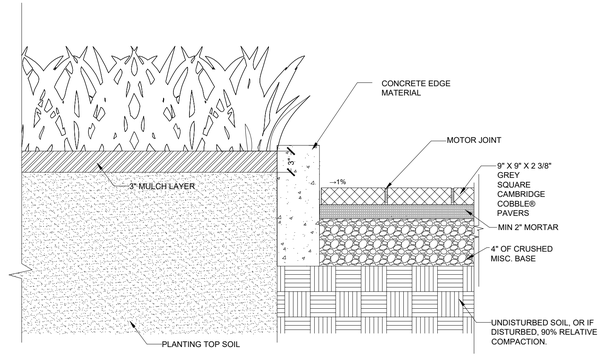
NOTE:

1. VERIFIED WITH LANDSCAPE ARCHITECTURE AND PROJECT MANAGER PRIOR TO THE CONSTRUCTION.
2. CONTACT THE MEMBER OF MANUFACTURER, THE CONSTRUCTION SHOULD BE SAME OF APPROVE EQUAL.

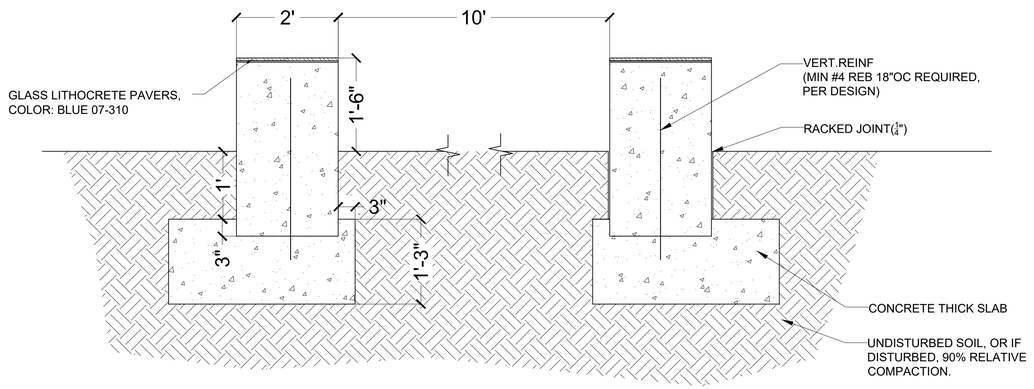
8-1 RANDOM SIZED ARTO ROMAN PAVEMENT BESIDES CAMBRIDGE COBBLE PAVEMENT 2"=1'-0"



9-1 RANDOM SIZED ARTO ROMAN PAVEMENT BESIDES PLANTS 1 1/4"=1'-0"



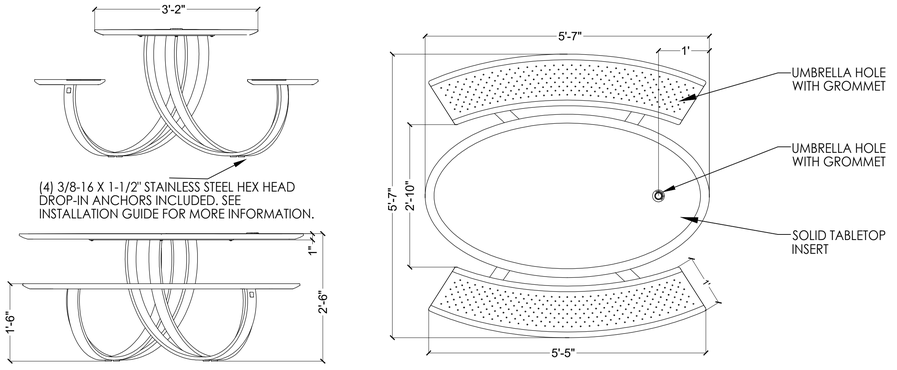
10-1 CAMBRIDGE COBBLE PAVEMENT BESIDES PLANTS 1 1/4"=1'-0"



NOTE:

1. PROVIDE SAMPLES FOR ALL PAVING BEFORE INSTALLATION.

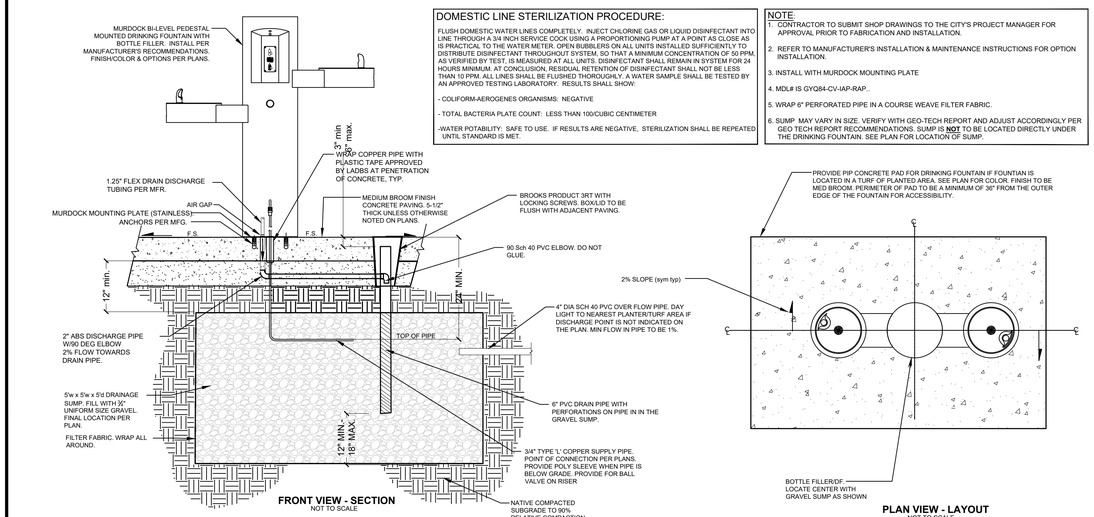
11-1 POUR IN PLACE CONCRETE CENTRAL TREE PLANTER 1 "=1'-0"



NOTES:

1. VERIFIED WITH LANDSCAPE ARCHITECTURE AND PROJECT MANAGER PRIOR TO THE CONSTRUCTION.
2. CONTACT THE MEMBER OF MANUFACTURER, THE CONSTRUCTION SHOULD BE SAME OF APPROVE EQUAL.
3. THE ITEM IS AVAILABLE IN LANDSCAPEFORMS COMPANY, THE CONTACT NUMBER IS 818-541-6691.
4. UNIT MUST BE SURFACE MOUNTED.

12-1 SILVER METALLIC CHARLIE TABLE 3/4"=1'-0"



DOMESTIC LINE STERILIZATION PROCEDURE:

FLUSH DOMESTIC WATER LINES COMPLETELY. INJECT CHLORINE GAS OR LIQUID DISINFECTANT INTO LINE THROUGH A 3/4 INCH SERVICE COCK USING A PROPORTIONING PUMP AT A POINT AS CLOSE AS IS PRACTICAL TO THE WATER METER. OPEN BUBBLERS ON ALL UNITS INSTALLED SUFFICIENTLY TO DISTRIBUTE DISINFECTANT THROUGHOUT SYSTEM, SO THAT A MINIMUM CONCENTRATION OF 50 PPM, AS VERIFIED BY TEST, IS MEASURED AT ALL UNITS. DISINFECTANT SHALL REMAIN IN SYSTEM FOR 24 HOURS MINIMUM. AT CONCLUSION, RESIDUAL RETENTION OF DISINFECTANT SHALL NOT BE LESS THAN 10 PPM. ALL LINES SHALL BE FLUSHED THOROUGHLY. A WATER SAMPLE SHALL BE TESTED BY AN APPROVED TESTING LABORATORY. RESULTS SHALL SHOW:

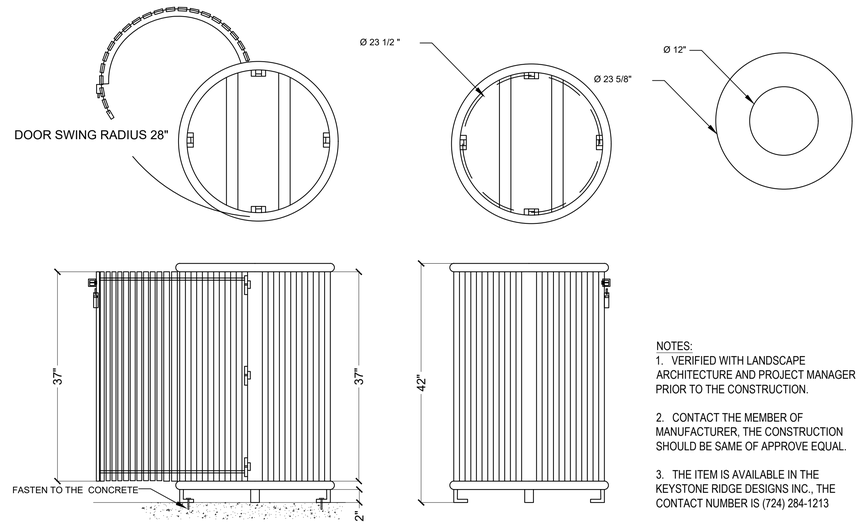
- COLIFORM-AEROGENES ORGANISMS: NEGATIVE
- TOTAL BACTERIA PLATE COUNT: LESS THAN 100/CUBIC CENTIMETER

-WATER POTABILITY: SAFE TO USE. IF RESULTS ARE NEGATIVE, STERILIZATION SHALL BE REPEATED UNTIL STANDARD IS MET.

NOTE:

1. CONTRACTOR TO SUBMIT SHOP DRAWINGS TO THE CITY'S PROJECT MANAGER FOR APPROVAL PRIOR TO FABRICATION AND INSTALLATION.
2. REFER TO MANUFACTURER'S INSTALLATION & MAINTENANCE INSTRUCTIONS FOR OPTION INSTALLATION.
3. INSTALL WITH MURDOCK MOUNTING PLATE
4. MDL# IS GYQ84-CV-IAP-RAP..
5. WRAP 6" PERFORATED PIPE IN A COURSE WEAVE FILTER FABRIC.
6. SUMP MAY VARY IN SIZE. VERIFY WITH GEO-TECH REPORT AND ADJUST ACCORDINGLY PER GEO TECH REPORT RECOMMENDATIONS. SUMP IS **NOT** TO BE LOCATED DIRECTLY UNDER THE DRINKING FOUNTAIN. SEE PLAN FOR LOCATION OF SUMP.

13-1 MURDOCK HI-LO DF-btl flr GYQ84 WITHOUT PF OPT 3/4"=1'-0"



NOTES:

1. VERIFIED WITH LANDSCAPE ARCHITECTURE AND PROJECT MANAGER PRIOR TO THE CONSTRUCTION.
2. CONTACT THE MEMBER OF MANUFACTURER, THE CONSTRUCTION SHOULD BE SAME OF APPROVE EQUAL.
3. THE ITEM IS AVAILABLE IN THE KEYSTONE RIDGE DESIGNS INC., THE CONTACT NUMBER IS (724) 284-1213

14-1 READING 55 GALLON LITTER RECEPTACLE WITH DOOR, SO 17498 (COLOR: SILVER METALLIC) 1"=1'-0"

PARK PROUD LA

THE CITY OF LOS ANGELES
DEPARTMENT OF RECREATION AND PARKS

GENERAL MANAGER: MICHAEL A. SHULL ASSISTANT GEN. MANAGER: RAMON BARAJAS

PROJECT LANDSCAPE ARCHITECT: CRAIG RAINES LIC. NO. 4082

PROJECT ENGINEER: LIC. NO.

AS-BUILTS DRAWN BY: DATE:

No. 4082 Signature Renewal Date July 31, 2017 Date

PROJECT NAME:
NEVIN AVENUE PARK

ADDRESS:
1531 E 32nd St, Los Angeles, CA 90011

REVISIONS: DATE:

PLAN NAME:
DETAILS

DRAWN BY: GY.P	APPROVED BY: CRAIG.RAINES
SCALE:	ISSUE DATE:
PRJ # 20833	FILE NO.

DRAWING NO.
LS-10.0

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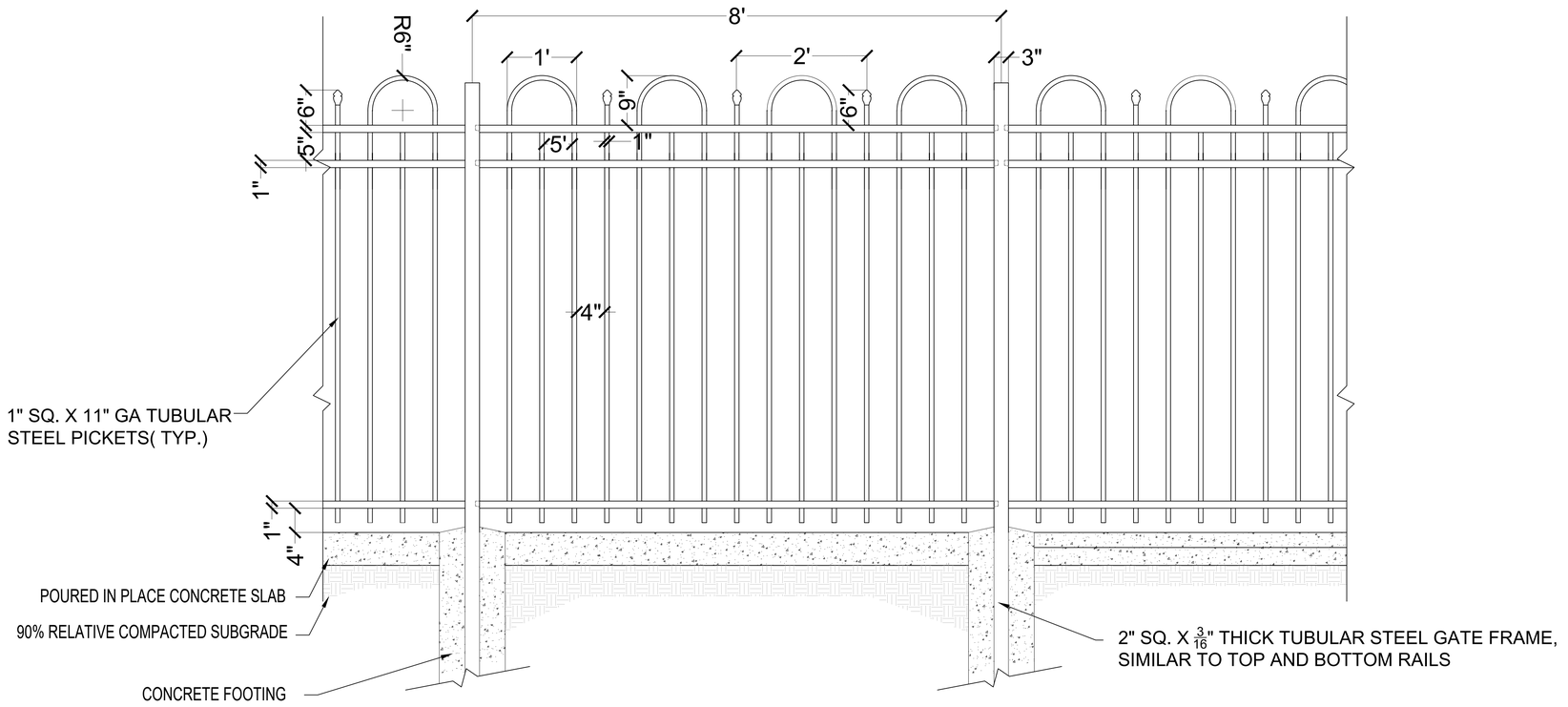
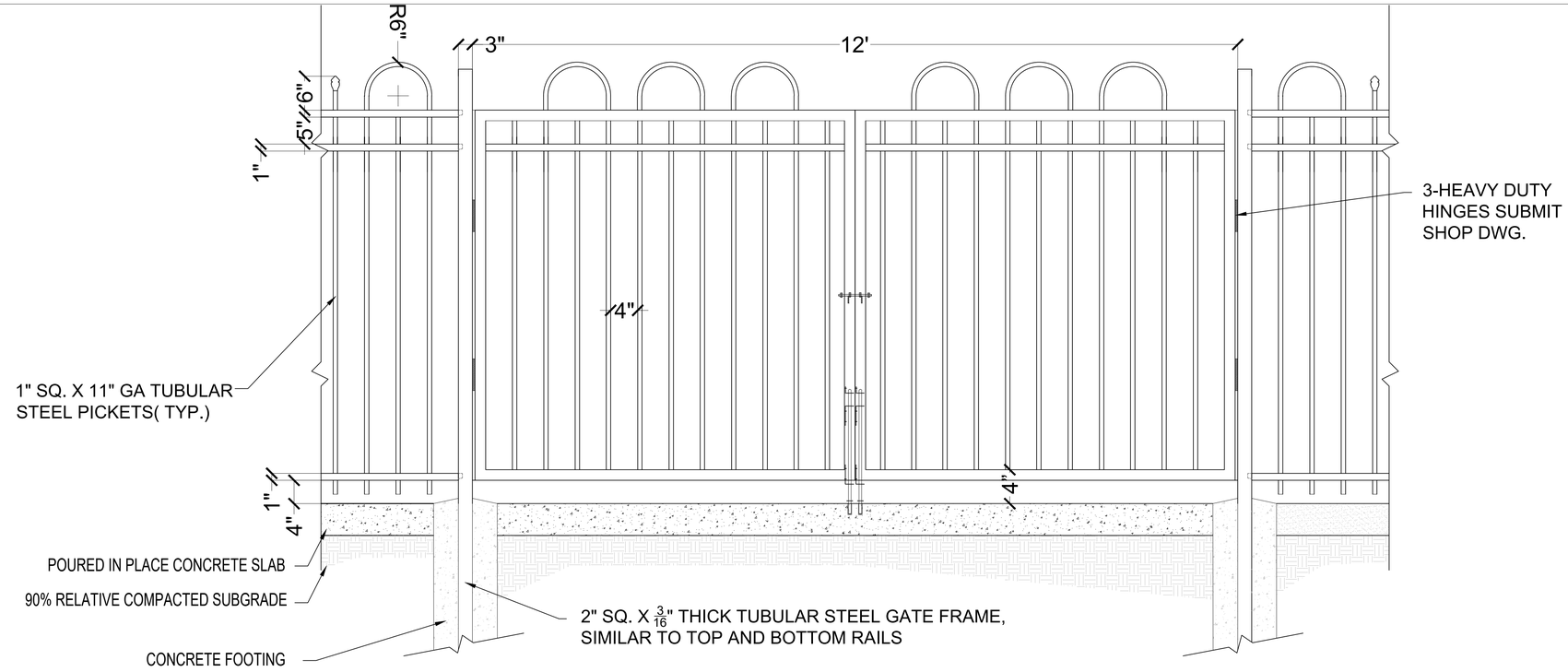


15-1 TUBULAR GALVANIZED STEEL WITH 6" WIDE PEDESTRIAN GATE 1"=1'-0"



16-1 TUBULAR GALVANIZED STEEL WITH 12" WIDE VEHICLE GATE 1"=1'-0"

PARK PROUD LA

THE CITY OF LOS ANGELES
DEPARTMENT OF RECREATION AND PARKS

GENERAL MANAGER: MICHAEL A. SHULL ASSISTANT GEN. MANAGER: RAMON BARAJAS

PROJECT LANDSCAPE ARCHITECT: CRAIG RAINES LIC. NO. 4982
PROJECT ENGINEER LIC. NO.
AS-BUILTS DRAWN BY DATE

No. 4982 Signature Expires 2/28/2021 LANDSCAPE

PROJECT NAME:
NEVIN AVENUE PARK

ADDRESS:
1531 E 32nd St, Los Angeles, CA 90011

REVISIONS: DATE:

PLAN NAME:
DETAILS

DRAWN BY: GY.P	APPROVED BY: CRAIG.RAINES
SCALE:	ISSUE DATE:
PRJ # 20833	FILE NO.

DRAWING NO.
LS-11.0

SHEET OF SHEETS

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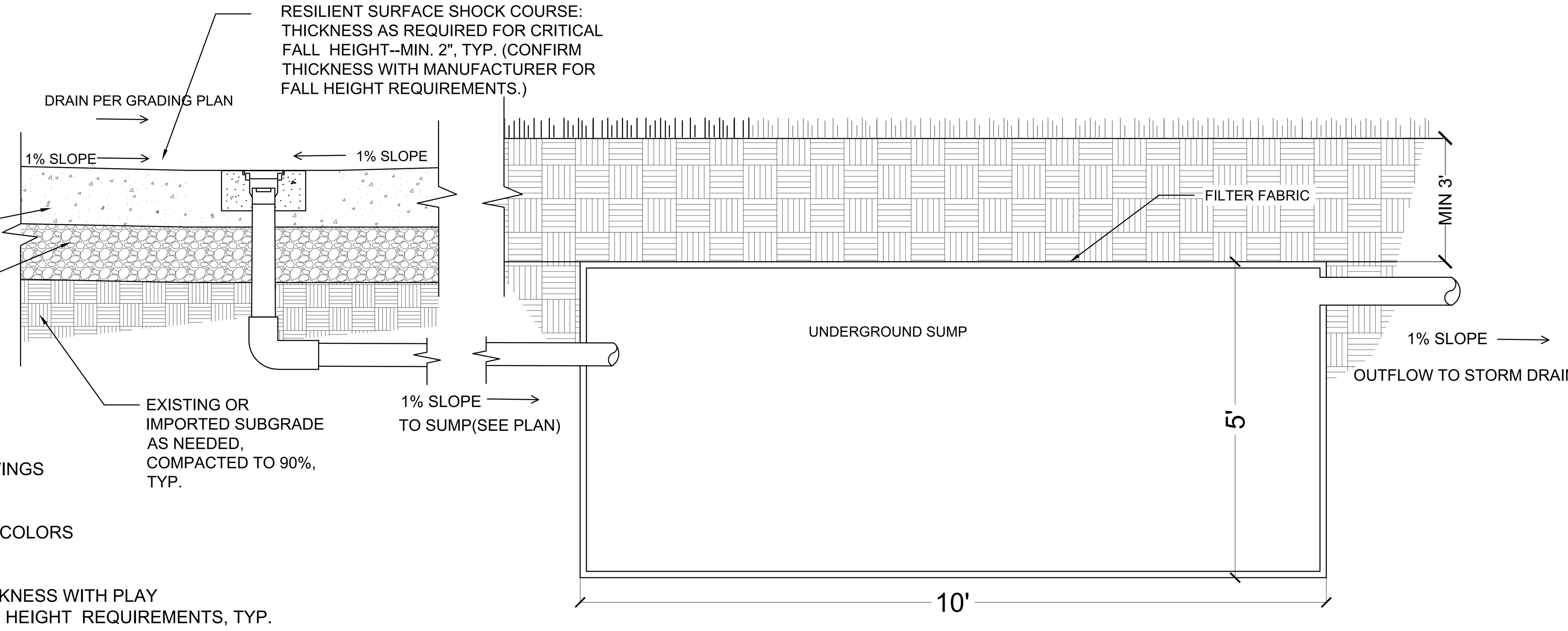
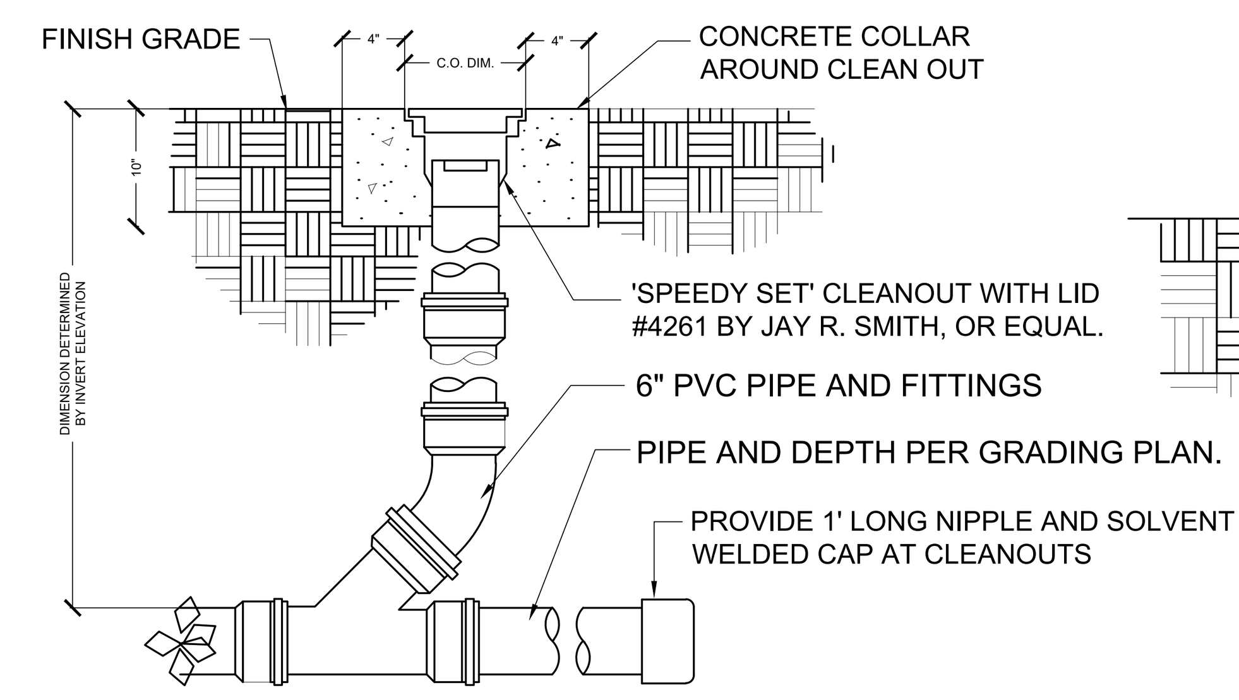
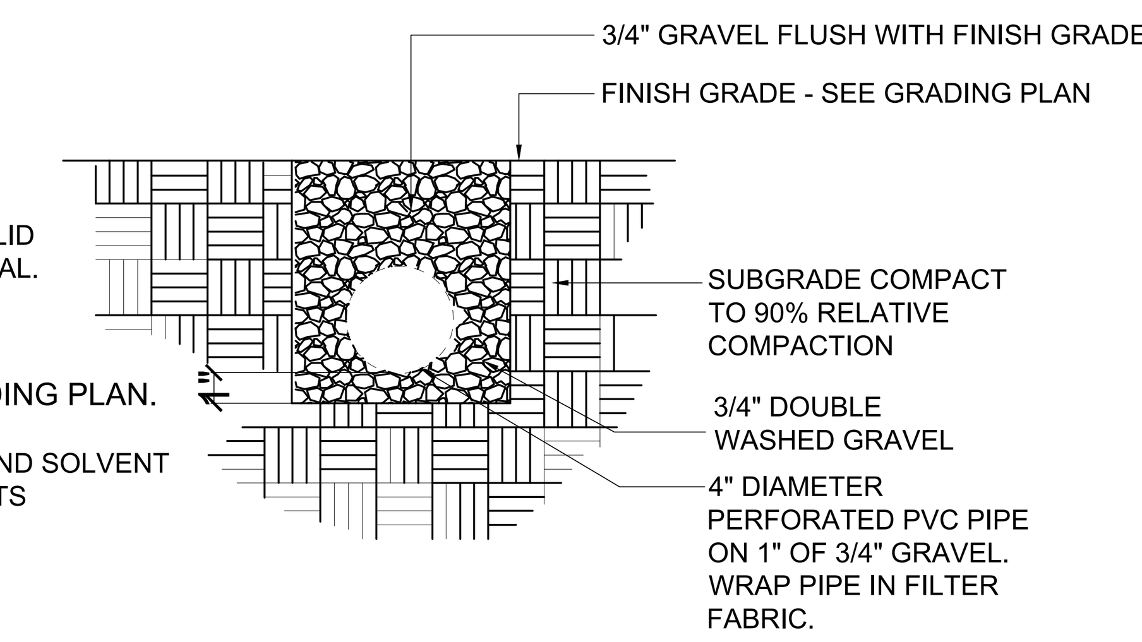


NOTES:
1. CONTRACTOR TO PROVIDE SHOP DRAWINGS PRIOR TO CONSTRUCTION.
2. SEE PLANS FOR RESILIENT SURFACING COLORS AND PATTER N LAYOUT.
3. COORDINATE RESILIENT SURFACE THICKNESS WITH PLAY EQUIPMENT MANUFACTURER FOR FALL HEIGHT REQUIREMENTS, TYP.

18-1 SUMP 3/4"=1'-0"

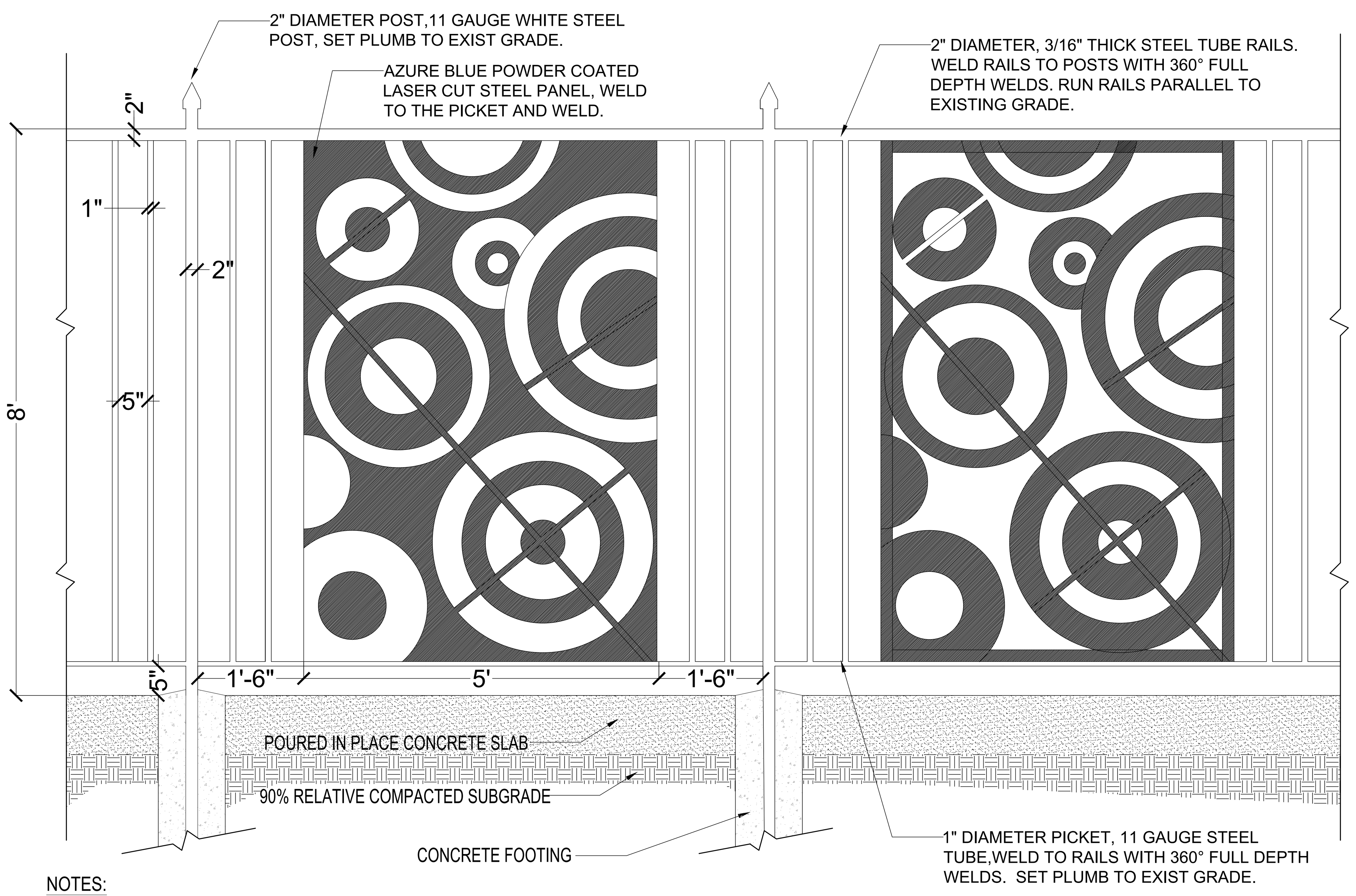


CLEANOUT DETAIL



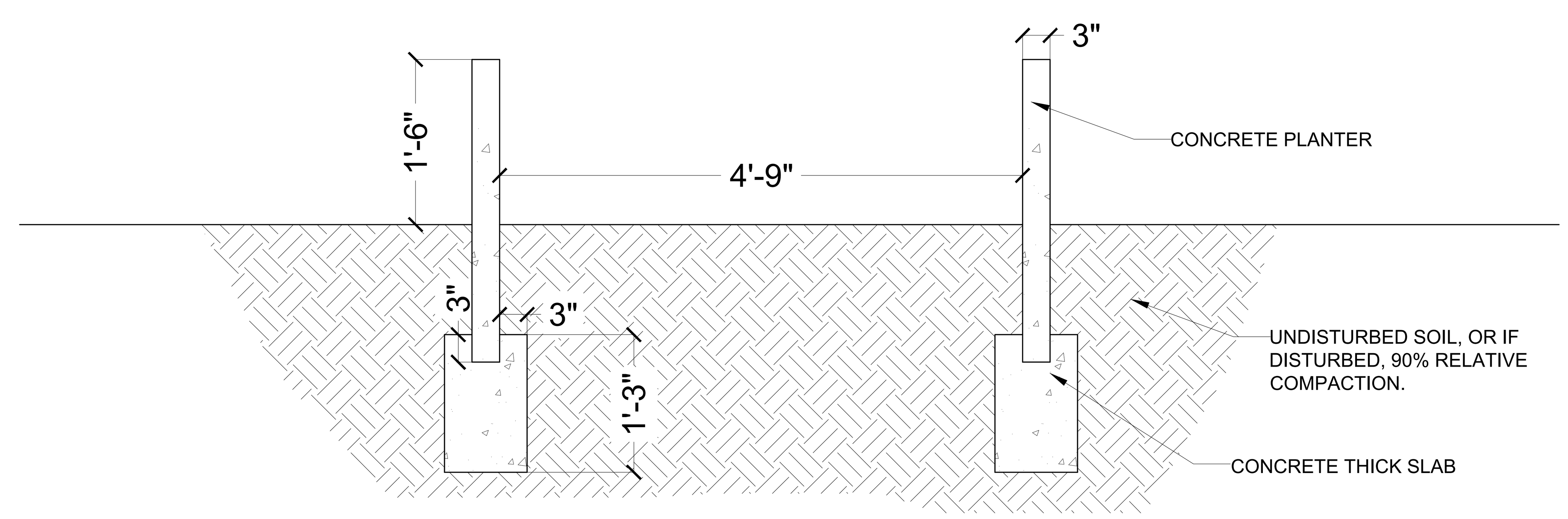
SECTION THROUGH PERORATED PIPE

19-1 DRAIN LINE INSTALLATION AND CLEAN OUT 1"=1'-0"



NOTES:
1.GRIND ALL WELDS SMOOTH, REMOVE ALL LOOSE MILL SCALE, RUST, OIL AND GREASE.
2.ALL FENCING SHALL BE SHOP PRIMED AND PAINTED.
3.PRIME ALL SURFACES WITH ONE COAT ALKYD CORROSION INHIBITING PRIMER.
4.ANY PAINT SURFACES DAMAGED DURING DELIVERY OR INSTALLATION SHALL BE SANDED SMOOTH, PRIMED AND REPAINTED WITH TWO COATS OF THE SPECIFIED ACRYLIC LATEX ENAMEL. BLACK COLOR UNLESS SPECIFIED OTHERWISE.

20-1 SURROUNDED STEEL FENCE WITH LASER CUT STEEL PANEL 3/4"=1'-0"



NOTE:
1. PROVIDE SAMPLES FOR ALL PAVING BEFORE INSTALLATION.

21-1 ENTRANCE CONCRETE TREE PLANTER 1"=1'-0"

PARK PROUD LA

THE CITY OF LOS ANGELES
DEPARTMENT OF RECREATION AND PARKS
GENERAL MANAGER: MICHAEL A. SHULL
ASSISTANT GEN. MANAGER: RAMON BARAJAS
PROJECT LANDSCAPE ARCHITECT: CRAIG RAINES
LIC. NO. 4862
PROJECT ENGINEER:
LIC. NO.
AS-BUILTS DRAWN BY:
DATE:

No. 4862 Signature Renewal Date July 31, 2017 Date

PROJECT NAME:
NEVIN AVENUE PARK
ADDRESS:
1531 E 32nd St, Los Angeles, CA 90011

REVISIONS:	DATE:
△	
△	
△	
△	
△	
△	

PLAN NAME:
DETAILS

DRAWN BY: GY.P	APPROVED BY: CRAIG.RAINES
SCALE:	ISSUE DATE:
PRJ # 20833	FILE NO.

DRAWING NO.
LS-12.0

SHEET OF SHEETS

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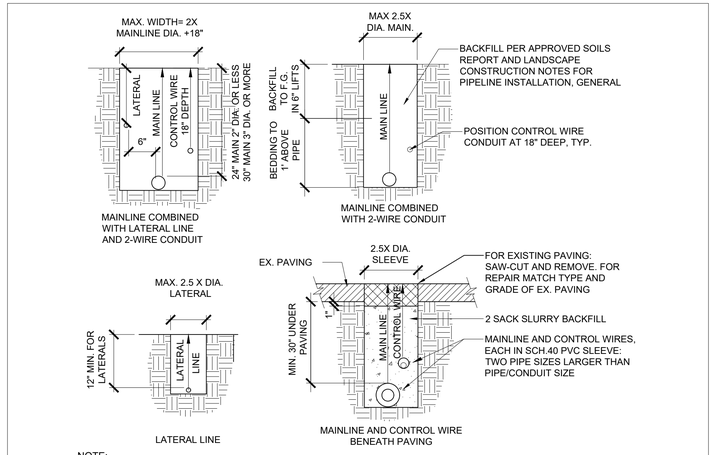
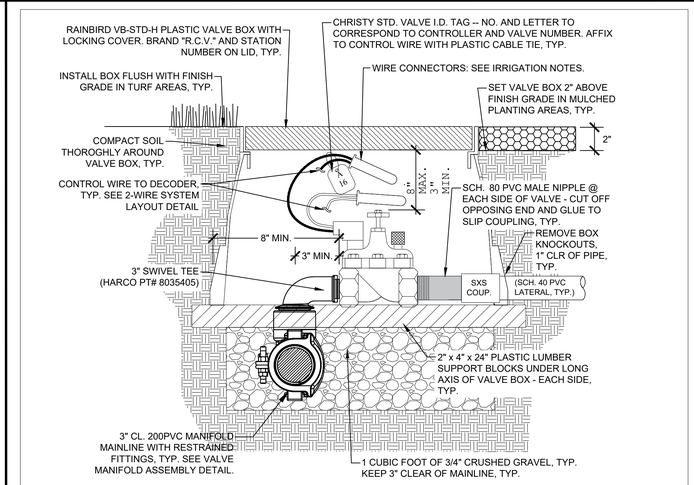


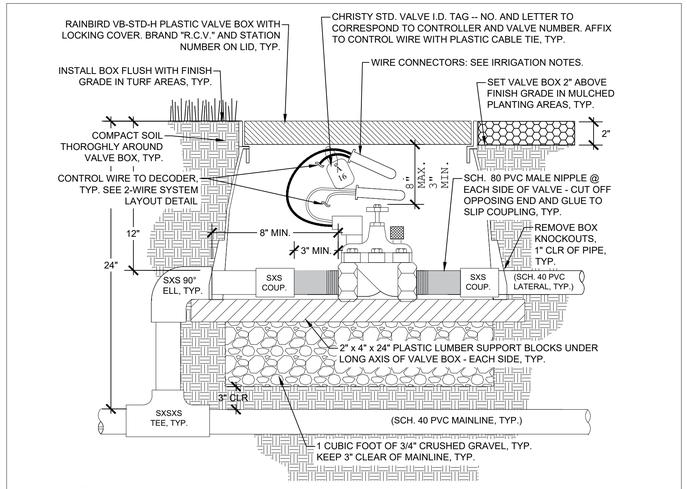
NOTE:
1. PIPE AND CONTROL WIRE CROSSING UNDER PAVING OR WALKWAY OVER 8' WIDE SHALL BE SLEEVED AS INDICATED ABOVE.
2. PIPE BEDDING AND BACKFILL SHALL BE PER APPROVED SOILS REPORT AND LANDSCAPE CONSTRUCTION NOTES, PIPELINE INSTALLATION GENERAL.

A-1 IRRIGATION TRENCHING DETAIL -2 WIRE



NOTES:
1. SEE APPLICABLE DETAILS FOR 2-WIRE DECODER AND CABLE INSTALLATION

B-1 RCV INSTALLATION DETAIL, 2-WIRE SYSTEM



NOTES:
1. SEE APPLICABLE DETAILS FOR 2-WIRE DECODER AND CABLE INSTALLATION

C-1 RCV INSTALLATION DETAIL, 2- WIRE SYSTEM

SECTION

NOTES:
1. SOLVENT WELD ALL JOINTS. PRIMER NOT REQUIRED.
2. MARK LOCATION OF PIPE AND WIRE WITH A CONTINUOUS ALUMINUM BACKED, 3 INCH WIDE RED, UNLABELED TAPE. INSTALLED ABOVE PIPE, AS MANUFACTURED BY TERRA-TAPE/GRIFFOLYN CO., (800) 231-2417 OR APPROVED EQUAL.
3. SHOW ALIGNMENT OF ALL CONTROL WIRE NOT INSTALLED WITH MAINLINE ON AS-BUILT DRAWINGS.

D-1 CONTROL WIRE WITHOUT MAINLINE, 2-WIRE SYSTEM

NOTES:

1. ENLARGE HOLE IN THE BOTTOM OF THE IRRIGATION CONTROLLER AS NECESSARY TO ACCOMODATE A LINE SIZED BUSHING. 120V POWER SOURCE SHALL BE AS SHOWN ON THE LANDSCAPE OR ELECTRICAL PLANS.

E-1 **CONTROLLER INSTALLATION IN BUILDING**

TWO-WIRE SYSTEM GROUNDING REQUIREMENTS:

SURGE PROTECTION USING PROPER GROUNDING RODS AND RAINBIRD LINE SURGE PROTECTION, LSP-1 (WHERE IT IS NOT ALREADY BUILT INTO THE DECODER) 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 RAINBIRD 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 LESS THAN 10 OHMS IS NECESSARY AT EACH LSP-1 (OR DECODER WHERE SURGE PROTECTION IS BUILT INTO THE DECODER). 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 SURGE PROTECTOR OR ENCLOSURE GROUND LUG SHALL BE BARE COPPER, AND SHALL NOT HAVE ANY SHARP BENDS OR KINKS. WIRE EXTENSIONS CONNECTED TO SURGE PROTECTORS SHALL USE A CADWELD TYPE OR SCREW CLAMP TYPE CONNECTION WHERE THE BARE COPPER GROUND WIRE MEETS THE GREEN GROUNDING WIRE FROM THE SURGE PROTECTOR.

F-1 **2-WIRE SYSTEM GROUNDING ROD**

WIRING NOTES:
1.) CONTROL WIRE SHALL BE RAINMASTER #TW-CAB-14 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 (.060Ó) 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.) ATTACHING DECODERS:

- TWIST WIRES TO PROVIDE A SOLID MECHANICAL CONNECTION BEFORE SECURING THE ATTACHMENT BY ADDING THE WIRE NUT.
- RAINMASTER #TW-SPLICE-14 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.

4.) ALL EQUIPMENT SHALL BE INSTALLED PER THE MANUFACTURER'S SPECIFICATIONS.

G-1 2-WIRE IRRIGATION SYSTEM WIRING (RAINMASTER OR EQUAL)

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 WireLength (feet)	Max Distance from Decoder to Solenoid
MAXI-Cable 14-2UF	8,700	456
Maximum 500 feet between line surge protectors		

H-1 **2-WIRE SYSTEM LAYOUT**

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CITY OF LOS ANGELES DEPARTMENT OF RECREATION AND PARKS
PARK PROUD LA

THE CITY OF LOS ANGELES
DEPARTMENT OF RECREATION AND PARKS

GENERAL MANAGER: MICHAEL A. SHULL ASSISTANT GEN. MANAGER: RAMON BARAJAS
PROJECT LANDSCAPE ARCHITECT: CHAD HAINES LIC. NO. 4992
PROJECT ENGINEER: LIC. NO.
AS-BUILTS DRAWN BY: DATE:

REGISTERED LANDSCAPE ARCHITECT Chad Haines No. 4992 Signature Renewal 08/31/2021 Date

PROJECT NAME: **NEVIN AVENUE PARK**
ADDRESS: **1531 E 32nd St, Los Angeles, CA 90011**

REVISIONS:	DATE:

PLAN NAME: **IRRIGATION DETAIL ONE**

DRAWN BY:	APPROVED BY:
GONGYING PU	
SCALE:	ISSUE DATE:
PRJ #	FILE NO.

DRAWING NO. **LS-13**

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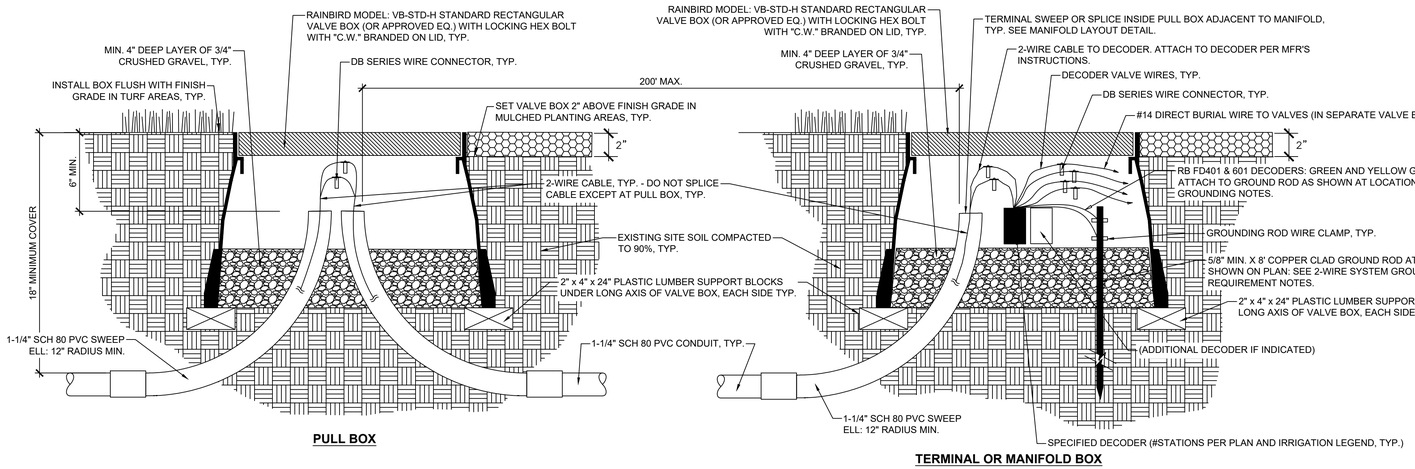

NOTES:

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 200 FEET.
3. MAXIMUM LENGTH OF SECONDARY WIRE PATH (14 AWG) FROM FIELD DECODER TO SOLENOID IS 450 FEET.
4. PROVIDE A COIL OF MIN. 24" OF 2-WIRE CABLE AT EACH SPLICE OR DECODER CONNECTION POINT.

TWO-WIRE SYSTEM GROUNDING REQUIREMENTS:

SURGE PROTECTION USING PROPER GROUNDING RODS 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 MANUFACTURER'S WARRANTY TERMS.

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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 10 OHMS IS NECESSARY AT EACH LIGHTNING ARRESTOR. ASIC SPEC: SECTION 7.0 - MEASURING RESISTANCE, ITEM A.

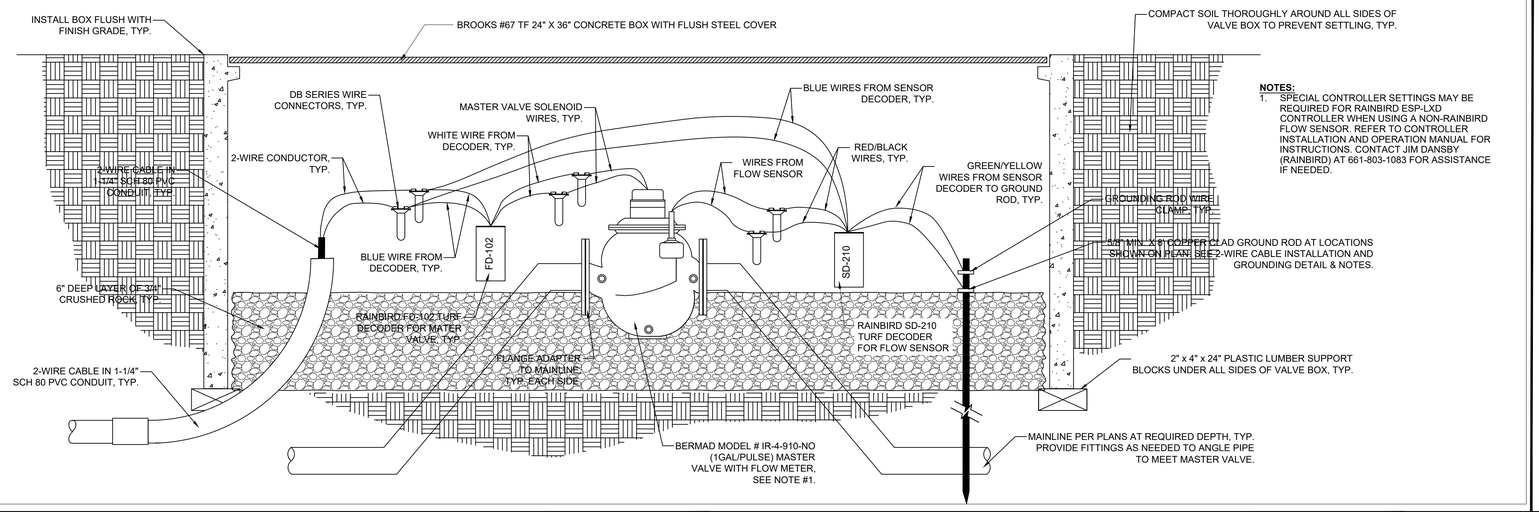
GROUND RODS SHALL BE LOCATED AT A MINIMUM DISTANCE TO ASSURE THAT THE TWO-WIRE PATH IS OUTSIDE OF THE ELECTRODE SPHERE OF INFLUENCE FOR THE GROUNDING ROD. THE GROUND ROD MUST BE CONNECTED AT LEAST 8' AWAY FROM THE TWO-WIRE PATH, AT A RIGHT ANGLE TO THE TWO-WIRE PATH.

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 A SCREW CLAMP TYPE OF CONNECTION.

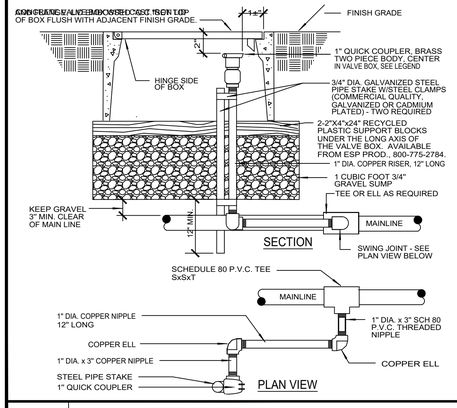
ANY WIRE EXTENSIONS REQUIRED TO CONNECT FROM A GROUND ROD TO A LIGHTNING ARRESTOR OR ENCLOSURE GROUND LUG SHALL BE BARE COPPER, AND SHALL NOT HAVE ANY SHARP BENDS OR KINKS. WIRE EXTENSIONS CONNECTED TO LIGHTNING ARRESTORS SHALL USE A CADWELD TYPE OR SCREW CLAMP TYPE CONNECTION WHERE THE BARE COPPER GROUND WIRE MEETS THE GREEN GROUNDING WIRE FROM THE LIGHTNING ARRESTOR.

I-1 2-WIRE CABLE INSTALLATION AND GROUNDING

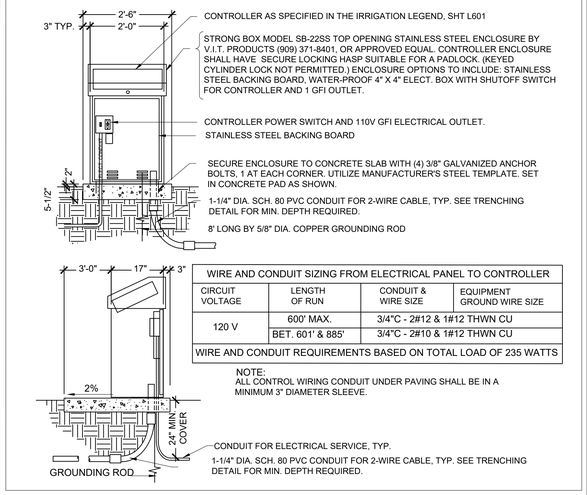


NOTES:
1. SPECIAL CONTROLLER SETTINGS MAY BE REQUIRED FOR RAINBIRD ESP-LXD CONTROLLER WHEN USING A NON-RAINBIRD FLOW SENSOR. REFER TO CONTROLLER INSTALLATION AND OPERATION MANUAL FOR INSTRUCTIONS. CONTACT JIM DANSBY (RAINBIRD) AT 661-803-1083 FOR ASSISTANCE IF NEEDED.

J-1 FLOW-SENSING MASTER VALVE-WIRE



L-1 QUICK BUBBLER



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.

K-1 CONTROLLER AND ENCLOSURE

CITY OF LOS ANGELES DEPARTMENT OF RECREATION AND PARKS
PARK PROUD LA

THE CITY OF LOS ANGELES
DEPARTMENT OF RECREATION AND PARKS

GENERAL MANAGER: MICHAEL A. SHULL | ASSISTANT GEN. MANAGER: RAMON BARAJAS

PROJECT LANDSCAPE ARCHITECT: CRAIG HAINES | LIC. NO. 4992
PROJECT ENGINEER: _____ | LIC. NO. _____
AS-BUILTS DRAWN BY: _____ | DATE: _____

LICENSED LANDSCAPE ARCHITECT
No. 4992
Signature
Michael Craig Haines
Type or Print Name

PROJECT NAME: **NEVIN AVENUE PARK**
ADDRESS: **1531 E 32nd St, Los Angeles, CA 90011**

REVISIONS:	DATE:
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PLAN NAME:
IRRIGATION DETAIL TWO

DRAWN BY:	APPROVED BY:
GONGYING PU	
SCALE:	ISSUE DATE:
PRJ #	FILE NO.

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IRRIGATION NOTES

1. IRRIGATION PLANS

THE PLAN(S) IS DIAGRAMMATIC. LOCATE ALL PIPING, VALVES, ETC. IN PLANTING AREAS WHERE POSSIBLE UNLESS OTHER WISE NOTED. LOCATE ALL IRRIGATION HEADS A MINIMUM OF 3" FROM THE EDGE OF CURBS, WALLS, FENCES, AND/ OR OTHER HARDSCAPE AREAS AND 12" FROM BUILDING WALL.

2. VERIFY CONDITIONS

THE CONTRACTOR SHALL VERIFY EXISTING LOCATIONS OF ALL UTILITY SERVICE LINES AND SHALL ASSUME FULL RESPONSIBILITY FOR ANY DAMAGE INCURRED DURING HIS/HER WORK. VERIFY THE STATIC PSI AND THE GPM AT THE POINT OF CONNECTION. NOTIFY THE PROJECT ENGINEER LANDSCAPE ARCHITECT OF ANY DISCREPANCIES PRIOR TO THE START OF WORK.

3. BACKFLOW DEVICE CERTIFICATION

THE CONTRACTOR SHALL OBTAIN CERTIFICATION OF THE BACKFLOW DEVICE(S) FROM THE LOS ANGELES COUNTY HEALTH DEPARTMENT. SUBMIT THE CERTIFICATE OF APPROVAL FOR BACK FLOW DEVICE PLUS (2) TWO COPIES TO THE PROJECT ENGINEER AT THE TIME OF OPERATIONAL TESTING OF THE IRRIGATION SYSTEM.

4. VALVE BOXES

UNLESS OTHERWISE SHOWN OR NOTED, STANDARD PLAN S-655-0 IS MODIFIED AS FOLLOWS: ALL VALVE/PULL BOXES SHALL BE 9 1/2" x 16" x 12" AND 12" x 22" x 12" SIZES, MADE OF CONCRETE WITH CAST IRON, DOUBLE TOGGLE LOCKING TRAFFIC LID. ALL VALVE/PULL BOX LIDS SHALL BE EMBOSSED WITH THE FOLLOWING IDENTIFICATION IN 2" HIGH INITALS:

SHUT – OFF VALVE	SOV
REMOTE CONTROL VALVE	RCV
QUICK COUPLER VALVE	QCV
ELECTRICAL PULL BOX	ELECTRICAL

CAST IRON LIDS SHALL BE COMPLETELY REMOVABLE FROM THE CONCRETE VALVE BOX (TRAFFIC RATED TYPE). HINGED CAST IRON LIDS ARE UNACCEPTABLE AND ARE NOT TO BE INSTALLED.

5. PIPE AND FITTINGS

ALL MAIN LINES SHALL BE NEW SCH. 80 PVC. AND ALL LATERAL LINES SHALL BE NEW SCH. 40 PVC. ALL THREADED FITTINGS SHALL BE NEW SCH. 80 PVC., UNLESS OTHERWISE NOTED.

6. SWING JOINTS

ALL SWING JOINTS AND RISERS SHALL BE CONSTRUCTED OF EITHER SCHEDULE 80 PVC. OR SCHEDULE 40 GALVANIZED STEEL THREADED FITTINGS (SEE CONSTRUCTION DETAILS FOR CONSTRUCTION AND INSTALLATION SWING JOINTS). STREET ELLS WILL NOT BE PERMITTED. CONTRACTOR TO SUBMIT A SWING JOINT FOR APPROVAL PRIOR TO I NSTALLATION.

7. TRENCHING/EXCAVATION

THE CONTRACTOR SHALL NOT TRENCH OR EXCAVATE FOR IRRIGATION PIPING, CONDUIT, WALL FOOTINGS, ETC. WITHIN THE DRIP LINE OF ANY EXISTING TREE. ALLOWANCES CAN BE MADE ONLY IF THE CONTRACTOR SUBMITS A WRITTEN REQUEST TO THE PROJECT ENGINEER/LANDSCAPE ARCHITECT STATING WAYS AND MEANS AS TO HOW THE CONTRACTOR WILL PROCEED WITH MINIMUM DISTURBANCE TO THE TREE.

8. PIPE BEDDING AND BACKFILL

BEDDING SHALL SURROUND THE PIPE TO ONE FOOT ABOVE THE TOP OF THE PIPE. BEDDING SHALL BE PLACED IN 6" LIFTS. ALL BEDDING SHALL BE DENSIFIED BY WATER JETTING. WATER JETTING SHALL BE SUFFICIENT TO THOROUGHLY WET BEDDING MATERIAL AROUND THE PIPE (SSPWC 306-1.2.1). THERE SHALL BE NO ROCKS OVER 1/2" IN GREATEST DIMENSION AND NO ORGANIC MATTER PLACED IN THE BEDDING MATERIAL. BACKFILL SHALL BE THE MATERIAL PLACED ABOVE THE BEDDING. BACKFILL SHALL BE PLACED IN ONE-FOOT LIFTS AND DENSIFIED BY WATER JETTING. JETTING SHALL BE CONTINUED UNTIL BACKFILL COLLAPSES AND WATER IS FORCED TO THE SURFACE (SSPWC 306-1.3.1. .). PIPE TRENCHES THOROUGHLY DENSIFIED BY WATER SETTLING SHALL HAVE A MINIMUM RELATIVE COMPACTION OF 85%. THERE ARE NO ROCKS OVER 2" IN GREATEST DIMENSION OR ORGANIC MATTER IN THE BACKFILL. TRENCH AREAS WHICH EXHIBIT IN- SUFFICIENT IDENTIFICATION SHALL BE SUBJECT TO COMPACTION TESTS AS REQUESTED BY THE INSPECTOR OR THE PROJECT ENGINEER. ALL SUCH COMPACTION TEST SHALL BE AT EXPENSE OF THE CONTRACTOR, UNTIL THE 85% COMPACTION IS ACHIEVED. FINISHED TRENCHES SHALL MEET AND MATCH ADJACENT FINISH GRADE FLUSH. THE CONTRACTOR SHALL BE RESPONSIBLE FOR MAINTAINING THE TRENCHES FLUSH AND SMOOTH UNTIL FINAL ACCEPTANCE OF THE PROJECT. TRENCHES IN EXISTING LAWN SHALL BE REPAIRED PER METHOD 'A' LAWN REPAIR PER THE SSPWC 308-4.8.2.

9. ELECTRICAL CONTROL WIRES

CONTROL WIRING SHALL BE DIRECT BURIAL TYPE MINIMUM 10 GA. (AWG). SEE IRRIGATION CONTROLLER DETAIL FOR WIRE SIZE. PROVIDE WIRING TO ALL REMOTE CONTROL VALUES INCLUDING A SPARE CONTROL WIRE TO THE FURTHEST REMOTE CONTROL VALVE. IN THE EVENT THAT ONE CONTROLLER HAS SEVERAL DIRECTIONS OF CONTROL WIRE RUNS, ALL DIRECTIONS SHALL HAVE AN EXTRA CONTROL WIRE. ALL SPARE CONTROL WIRES SHALL BE IDENTIFIED WITH LABELS AT BOTH ENDS. WIRING SHALL BE IDENTIFIED BY INTEGRAL WIRE COLOR CODING AS FOLLOWS:

COMMON WIRE	WHITE
CONTROL WIRE	RED (FIRST CONTROLLER) ORANGE (SECOND CONTROLLER) YELLOW (THIRD CONTROLLER IF APPLICABLE)
SPARE WIRE	GREEN

10. ELECTRICAL CONTROL WIRE CONNECTIONS

CONTROL WIRE CONNECTIONS SHALL BE MADE USING AN APPROVED, WATERTIGHT CONNECTOR SYSTEM. WIRES SHALL BE CONNECTED USING A COPPER CRIMP SLEEVE. THE CONNECTION SHALL BE PLACED IN A TWO PIECE (MALE-FEMALE) MALLEABLE PLASTIC CASING FILLED WATERPROOF SEALANT.

11. LOW HEAD DRAINAGE

THE CONTRACTOR SHALL INSTALL IN-LINE LOW HEAD DRAINAGE VALVES AT IRRIGATION HEADS OR AS INDICATED ON THE PLAN (S) WHERE NECESSARY TO PREVENT LOW HEAD DRAINAGE AT NO ADDITION COST TO THE CITY.

12. CONTROLLER CHARTS

THE CONTRACTOR SHALL PROVIDE TWO SETS OF THE CONTROLLER CHARTS SHOWING THE APPROVED AS-BUILT IRRIGATION PLANS. THE CHARTS SHALL BE DONE ON HALF SIZE PHOTOGRAPHICREPRODUCTION OF THE APPROVED IRRIGATION AS-BUILT PLANS AND SHALL REFLECT ALL AS-BUILT DATA. EACH STATION SHALL BE SHOWN IN A DIFFERENT COLOR AND CONTROL WIRE LOCATIONS SHALL BE INDICATED. THE COMPLETE PLAN(S) SHALL BE LAMINATED ON EACH SIDE WITH 20 MIL. ACRYLIC PLASTIC SHEET. A 3/4 " BRASS GROMMET SHALL BE PLACED IN EACH TOP CORNER. THE CONTRACTOR SHALL OBTAIN APPROVAL OF THE AS- BUILT PLANS PRIOR TO PROCEEDING WITH THE PLASTIC LAMINATION.

I-1

PARK PROUD LA

THE CITY OF LOS ANGELES
DEPARTMENT OF RECREATION AND PARKS

GENERAL MANAGER: MICHAEL A. SHULL ASSISTANT GEN. MANAGER: RAMON BARAJAS

PROJECT LANDSCAPE ARCHITECT: CRAIG RAINES LIC. NO. 4992

PROJECT ENGINEER: LIC. NO.

AS-BUILTS DRAWN BY: DATE:

LICENSED LANDSCAPE ARCHITECT Craig Raines No. 4992 Signature Renewal Date: August 31, 2021 STATE OF CALIFORNIA

PROJECT NAME: **NEVIN AVENUE PARK**

ADDRESS: **1531 E 32nd St, Los Angeles, CA 90011**

REVISIONS:	DATE:
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PLAN NAME:

IRRIGATION DETAIL TWO

DRAWN BY: GONGYING PU	APPROVED BY:
SCALE:	ISSUE DATE:
PRJ #	FILE NO.

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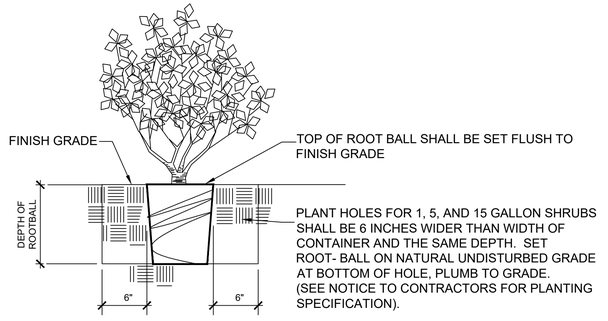
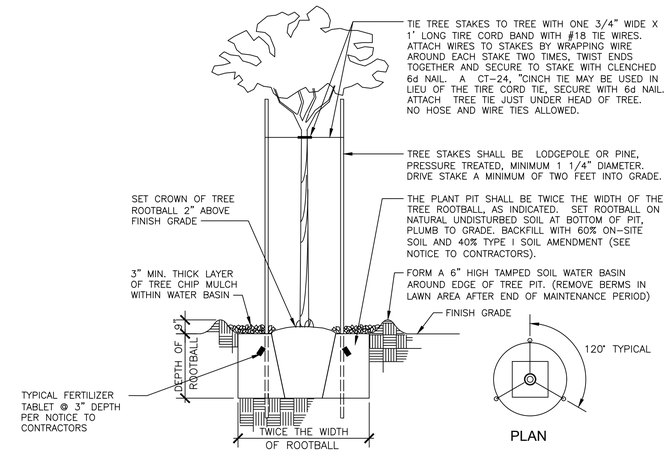


SECTION

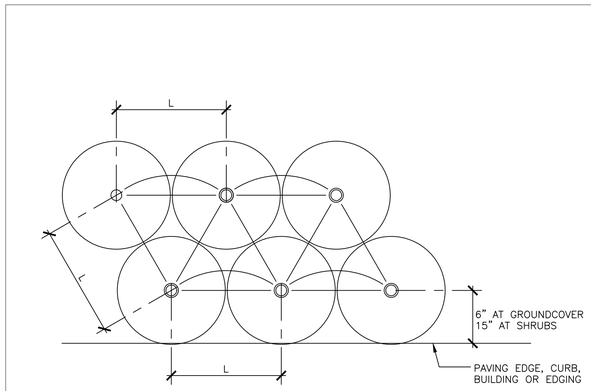
19-1 | SHRUB PLANTING DETAIL | 1" = 1'-0"



PLAN

SECTION

20-1 | TREE PLANTING.& 3X STAKING | 1" = 1'-0"



L= FOR SPACING REFER TO PLANTING PLAN

21-1 | TRIANGULAR SHRUB SPACING | 1" = 1'-0"

PLANTING NOTES

1. THE PLAN(S) ARE DIAGRAMMATIC. THE CONTRACTOR SHALL VERIFY EXISTING CONDITIONS AND NOTIFY THE PROJECT ENGINEER/LANDSCAPE ARCHITECT OF ANY DISCREPANCIES PRIOR TO THE START OF WORK.

2. CLEARING AND GRUBBING
THE CONTRACTOR SHALL CLEAR AND GRUB ALL IMPROVEMENT AREAS PRIOR TO THE INSTALLATION OF THE IRRIGATION SYSTEM. SEE SPECIFICATIONS.

3. TOPSOIL/SOILS REPORT
THE CONTRACTOR SHALL OBTAIN AN AGRICULTURAL SUITABILITY REPORT FOR THE ON-SITE SOIL. TAKE A MINIMUM OF 3 TEST SAMPLES AS DIRECTED BY THE CITY LANDSCAPE ARCHITECT, PRIOR TO THE INSTALLATION OF IRRIGATION AND PLANTING. THE RECOMMENDATIONS FOR SOIL AMENDMENTS FROM THE REPORT SHALL BE FOLLOWED IF THEY DIFFER FROM THE ONES GIVEN IN THESE PLANTING NOTES. IF IMPORTED SOIL IS REQUIRED, IT SHALL BE CLASS 'A' SOIL OBTAINED FROM A SOURCE DESIGNATED BY THE CONTRACTOR AND APPROVED BY THE CITY LANDSCAPE ARCHITECT. CONTRACTOR SHALL GUARANTEE THE QUALITY OF THE TOPSOIL WITH AN APPROVED AGRICULTURAL SUITABILITY EVALUATION REPORT. SUBMIT THE EVALUATION REPORT TO THE CITY LANDSCAPE ARCHITECT FOR APPROVAL 30 DAYS PRIOR TO ANY SOIL PLACEMENT.

4. PROTECTION OF EXISTING TREES
THE CONTRACTOR SHALL PROTECT IN PLACE ALL EXISTING TREES AS NOTED ON THE PLANS OR AS DIRECTED BY THE CITY ENGINEER/LANDSCAPE ARCHITECT. THE CONTRACTOR SHALL NOT STORE ANY CONSTRUCTION MATERIALS INCLUDING EQUIPMENT OR EXCAVATED SOILS NOR OPERATE ANY MACHINERY THAT MIGHT COMPACT THE EXISTING SOIL WITHIN THE DRIP LINE OF THE TREE'S CANOPY. THE CONTRACTOR SHALL PROVIDE IRRIGATION AND MAINTENANCE TO ALL PLANT MATERIALS THAT ARE TO REMAIN UNDISTURBED. THE CONTRACTOR SHALL BE RESPONSIBLE TO REPLACE IN SIZE, KIND, AND TO THE SATISFACTION OF THE CITY ENGINEER/LANDSCAPE ARCHITECT ANY EXISTING PLANT MATERIAL THAT IS TO BE PROTECTED AND IS DAMAGED DURING THE CONSTRUCTION PERIOD.

5. WEED ABATEMENT
THE CONTRACTOR SHALL SUBMIT A WEED ABATEMENT PROGRAM TO THE CITY ENGINEER/LANDSCAPE ARCHITECT FOR APPROVAL 30 DAYS PRIOR TO THE START OF PLANTING OPERATIONS. NO PLANTING OPERATIONS WILL BE ALLOWED UNTIL ALL PLANTING AREAS ARE CLEARED OF WEEDS IN ACCORDANCE WITH THE WEED ABATEMENT PROGRAM AND TO THE SATISFACTION OF THE CITY ENGINEER/LANDSCAPE ARCHITECT. MAINTAIN ALL PLANTING AREAS FREE OF WEEDS FOR THE DURATION OF THE CONTRACT.

6. PLANT LAYOUT
THE CONTRACTOR SHALL NOTIFY THE CITY ENGINEER 48 HOURS PRIOR TO PLANTING OPERATIONS TO CONFIRM THE LOCATION OF PLANT MATERIALS. LOCATIONS AND QUANTITIES OF PLANT MATERIALS ON THE PLANS ARE APPROXIMATE AND ARE PROVIDED TO SHOW GENERAL INTENT. PLANT LOCATION ADJUSTMENTS SHALL BE PERFORMED BY THE CONTRACTOR AS DIRECTED BY THE CITY ENGINEER/LANDSCAPE ARCHITECT AT NO ADDITIONAL COST TO THE CITY.

7. SOIL CONDITIONING
ALL PLANTING AREAS SHALL HAVE THE FOLLOWING AMENDMENTS TILLED INTO THE TOP 6" OF THE SOIL PER 1000 SQUARE FEET:

A. THREE (3) CUBIC YARDS OF NITROGEN FORTIFIED WOOD COMPOST (TYPE 1 ORGANIC SOIL AMENDMENT).
B. TWO (2) CUBIC YARDS OF ORGANIC FERTILIZER (TYPE 2 ORGANIC SOIL AMENDMENT)
C. 100 POUNDS OF AGRICULTURAL GYPSUM
D. 20 POUNDS OF 12-12-12 QUICK RELEASE COMMERCIAL FERTILIZER THESE QUANTITIES ARE FOR BID BASIS ONLY. REFER TO SOILS REPORTS FOR FINAL QUANTITIES
(SEE SPECIFICATIONS).

8. BACKFILL MIX
ALL PLANTING HOLES, EXCLUDING PLANTING HOLES SMALLER THAN 1 GALLON SHALL HAVE THE FOLLOWING BACKFILL MIXTURE:

70% EXISTING TOPSOIL
30% NITROGEN FORTIFIED WOOD COMPOST (TYPE 1 ORGANIC SOIL AMENDMENT)
(FOR AZALEAS, SUBSTITUTE 30% PEAT MOSS)
2 POUNDS PER CUBIC YARD OF IRON SULFATE AND THE FOLLOWING AMOUNT OF PLANTING TABLETS:
15 GAL. PLANT = FIVE (5)TABLETS
5 GAL. PLANT = THREE (3) TABLETS
1 GAL. PLANT = ONE (1) TABLET
ONE(1) TABLET PER 4" BOX SIZE

9. MULCH
APPLY 1" OF TYPE 5 MULCH IN ALL PLANTING AREAS.

10. FERTILIZER
THE CONTRACTOR SHALL APPLY AN 8-8-4 COMMERCIAL SLOW RELEASE FERTILIZER TO ALL PLANTING AREAS AT A RATE OF 20 POUNDS PER 1000 SQUARE FEET UPON COMPLETION OF THE GROUND COVER PLANTING AND AT THIRTY DAY INTERVALS THEREAFTER UNTIL THE END OF THE PLANT ESTABLISHMENT PERIOD. THOROUGHLY WATER ALL PLANTING AREAS FOLLOWING THE APPLICATION OF THE FERTILIZER. ALL FERTILIZER APPLICATIONS SHALL BE PERFORMED UNDER INSPECTION BY A REPRESENTATIVE FROM THE BUREAU OF CONTRACT ADMINISTRATION.

11. PLANT REPLACEMENT
THE CONTRACTOR SHALL REPLACE AS SOON AS POSSIBLE, ANY PLANT THAT SHOWS SIGNS OF FAILURE TO GROW AT ANY TIME DURING THE CONTRACT PERIOD OR THOSE PLANTS THAT ARE INJURED OR SO DAMAGED AS TO RENDER THEM UNSUITABLE FOR THE PURPOSE INTENDED. PROVIDE REPLACEMENT PLANTS OF THE SAME TYPE AND SIZE, AND INSTALL THEM PER THE PLANTING SPECIFICATION.

12. PLANT ESTABLISHMENT PERIOD
THE CONTRACTOR SHALL PROVIDE A PLANT ESTABLISHMENT PERIOD FOR A LENGTH OF 180 CALENDAR DAYS. ARRANGE FOR A PRE-MAINTENANCE FINAL INSPECTION TO START THE PLANT ESTABLISHMENT PERIOD BY CONTACTING THE BUREAU OF CONTRACT ADMINISTRATION, FINAL INSPECTION SECTION AT: METRO AREA-(213) 580-1394.

13. RESTORATION OF DAMAGED AREAS
THE CONTRACTOR SHALL RESTORE ALL LANDSCAPED AREAS TO THEIR ORIGINAL CONDITION THAT ARE NOT SPECIFICALLY PROVIDED FOR BY THESE PLANS, BUT HAVE BEEN IMPACTED BY CONSTRUCTION. PROVIDE ALL NECESSARY MATERIAL, INCLUDING IRRIGATION EQUIPMENT, SOIL, SOIL AMENDMENTS, PLANTS OF THE SAME SPECIES, KINDS, AND SIZED, ETC. TO THE SATISFACTION OF THE CITY ENGINEER AND THE CITY LANDSCAPE ARCHITECT AT NO ADDITIONAL COST TO THE CITY.

14. GUARANTEES
THE CONTRACTOR SHALL WARRANT ALL TREES 15 GALLON SIZED AND LARGER FOR ONE YEAR AND ALL SHRUBS SHALL BE WARRANTED FOR A PERIOD OF SIX MONTHS. THE WARRANTY PERIOD SHALL BEGIN UPON THE DATE OF THE FINAL POST MAINTENANCE ACCEPTANCE. THIS WARRANTY DOES NOT INCLUDE ITEMS DAMAGED DUE TO THE CITY'S NEGLECT AND/OR TO ACTS OF GOD.

15. INSPECTIONS
ALL WORK AND MATERIALS ARE SUBJECT TO INSPECTION AND APPROVAL IN ADDITION TO INSPECTIONS REQUIRED BY THE STANDARD PLANS SPECIFICATIONS. THE FOLLOWING INSPECTIONS ARE REQUIRED:

-IRRIGATION SYSTEM PRESSURE TESTING
-IRRIGATION COVERAGE TEST
-IRRIGATION SYSTEM OPERATIONS TEST
*TAGGING OF PLANT MATERIAL 15 GALLON AND LARGER AT THEIR SOURCE.
*APPROVAL OF ALL PLANT MATERIAL AT THE SITE PRIOR TO PLANTING OPERATIONS.
*CONFIRMATION AND APPROVAL OF PLANT MATERIAL LOCATION AND SPACING PRIOR TO PLANTING.
*PRE-MAINTENANCE FINAL LANDSCAPE INSPECTION.
*POST-MAINTENANCE FINAL LANDSCAPE INSPECTION.

16. RECYCLING
THE CONTRACTOR SHALL RECYCLE ON-OR OF-SITE ALL VEGETATIVE WASTE (PER SECTION 12.43 OF LAMC).

PARK PROUD LA

THE CITY OF LOS ANGELES
DEPARTMENT OF RECREATION AND PARKS

GENERAL MANAGER: MICHAEL A. SHULL | ASSISTANT GEN. MANAGER: RAMON BARAJAS

PROJECT LANDSCAPE ARCHITECT: CRAIG MAMES | LIC NO. 4692

PROJECT ENGINEER: | LIC NO.

AS-BUILTS DRAWN BY: | DATE

REGISTERED LANDSCAPE ARCHITECT — CRAIG LAWRENCE MAMES — No. 4692 — Signature — Renewal Date July 31, 2017 — CALIFORNIA

PROJECT NAME:
NEVIN AVENUE PARK

ADDRESS: **1531 E 32nd St, Los Angeles, CA 90011**

REVISIONS: | DATE:

PLAN NAME:
PLANTING DETAIL

DRAWN BY: Gongying.Pu	APPROVED BY:
SCALE:	ISSUE DATE:
PRJ #	FILE NO.

DRAWING NO.
LS-15

SHEET OF SHEETS

Nevin Avenue Park Scheme ‘B’ 1”=20’

SHADED SEATING

COMMUNITY CENTER

GATHERING AREA

OUTDOOR LEARNING CENTER

PATH

OUTDOOR FITNESS

SHADED SEATINGS

CHILDREN’S PLAYGROUND

ENTRANCE TO SCHOOL

INTERACTIVE PLANTING AREA

SOUTHERN CALIFORNIA BOTANICAL LEARNING GARDEN

STUDY AREA

WALKING TRAIL

PICNIC TURF

BENCHES

ENTRY PLAZA

A

B

E 32nd St

N

0’ 10’ 20’ 40’ 80’

Nevin Avenue Park Scheme ‘A’ Perspective A

A

Nevin Avenue Park Scheme ‘A’ Perspective B

B

California

Environmental

SOIL MANAGEMENT PLAN

Nevin Park Site (Former Renu Plating Facility)
APNs 5117-001-909 & 5117-001-910
1527 & 1531 East 32nd Street,
Los Angeles, California 90011

FOR

CITY OF LOS ANGELES

Department of Recreation and Parks
Planning, Maintenance, and Construction Branch
221 North Figueroa Street, Suite 400
Los Angeles, California 90012
Attention: Lisa Walldez

SUBMITTED TO

DEPARTMENT OF TOXIC SUBSTANCES CONTROL

Site Mitigation and Restoration Program
Cypress Regional Office
5796 Corporate Avenue
Cypress, California 90630
Attention: Rania Zabaneh

CE Job No. EV1218-3538 March 2021

30423 Canwood Street, Suite 208, Agoura Hills, CA 91301 • P: (818) 991-1542 • F: (818) 991-1542 • E: ceworks@calenviro.com

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APPENDICES

1.0 INTRODUCTION

The following Soil Management Plan (SMP) describes the recommendations for management of onsite soil during removal and disposal of the top two (2) feet of soil across the site. The City of Los Angeles Department of Recreation and Parks (LADRAP) proposes redevelopment of the property with a park (Nevin Park). The property currently consists of a footprint of the former structure addressed as 1527 East 32nd Street (1527) and a contiguous fenced lot addressed as 1531 East 32nd Street (1531). The property was formerly occupied by Renu Plating Company (RPC) and was utilized for electroplating of metal products from 1955 through 1984. Polishing operations took place in the former 1527 structure and plating operations took place in the former 1531 structure. The former RPC plating structure was demolished in 2009 as part of the onsite remediation activities conducted by Engineering/Remediation Resources Group (ERRG) under the supervision of the California Department of Toxic Substances Control (DTSC). Remediation activities conducted by ERRG also included the removal and disposal of approximately 450 cubic yards of metals impacted soil from the 1531 portion of the property. Excavated areas were backfilled and compacted with certified clean material. On December 12, 2011, DTSC certified the site with a Land Use Covenant due to inaccessible contamination and stability issues. The City of Los Angeles and DTSC entered into a Prospective Purchaser Agreement (PPA) for the City of Los Angeles to purchase the property and convert it into a park. The PPA is attached in **APPENDIX I**. The City of Los Angeles purchased the property on May 31, 2017. Following the purchase of the Site, the City of Los Angeles demolished the 1527 structure on June 13-29, 2018. The purpose of this SMP is to specify procedures to be implemented during removal of the top two (2) feet of soil across the site. A project specific Health and Safety Plan (HASP) associated with this SMP will govern the onsite worker and community health and safety monitoring, notification, and reporting requirements. The HASP is attached in **Appendix II**.

1.1 SITE DESCRIPTION

The subject property is located on the north side of East 32nd Street between Compton Avenue and Nevin Avenue, in the City of Los Angeles, California; see **Figure 1 – Vicinity Map**. The current street addresses for the property are 1527 and 1531 East 32nd Street. According to the Los Angeles County Tax Assessor's office, the Assessor's Parcel Numbers (APNs) for the subject property are 5117-001-909 and 5117-001-910. The subject property consists of two (2) roughly rectangular-shaped parcels of land that encompass approximately 0.25 acres; see **Figure 2 – Plot Plan**. The property currently consists of a footprint of the former structure addressed as 1527 East 32nd Street and a fenced lot addressed as 1531 East 32nd Street. The site is bound to the west, north, and east by Nevin Elementary School and to the south by East 32nd Street with residential properties beyond.

1.2 PREVIOUS WORK

Information and data obtained from the 2004 Site Investigation (SI) Report prepared by Tetra Tech, the 2008 Remedial Investigation (RI) Report prepared by AMEC, and the 2010 Removal Action Completion Report prepared by ERRG are summarized below:

Former occupant of the property, Renu Plating Company, operated the site as a plating facility from 1955 through 1984. Onsite operations included the utilization of various surfactants, hydrochloric acid, base metals, cyanide, and water baths. Waste produced at the site included cyanide-contaminated, high pH metallic sludge and rinse waters. In 1955, RPC was issued a wastewater discharge permit from Los Angeles City Sanitation District for pretreatment and discharge of wastewater to the sewer system. Wastewater was reportedly discharged at a rate of 2,940 gallons per day (gpd). The initial discharge permit was cancelled in July 1980 and a new permit was issued to allow for 3,500 gpd. Additionally, approximately 700-gallons of metallic wastewater and sludge was pumped every six (6) to eight (8) months and transported to an offsite landfill in West Covina. (Tetra Tech, 2004).

On January 11, 1983, RPC was issued a Notice of Violation (NOV) by the Los Angeles City Sanitation Department for excessive free cyanide in wastewater. Los Angeles County Health Department (LACHD) issued NOVs in 1984 for improper handling and disposal of hazardous materials. In 1984, an inspection conducted by the LACHD identified contaminated soil in the northern portion of the site. RPC was subsequently ordered to excavate the metals and cyanide-contaminated soil. Plating operations ceased in June 1984 and all plating equipment, with the exception of an underground clarifier, was removed from the site. On July 26 and 27, 1984, approximately 370 cubic feet of discolored soil was removed to a depth of 3 feet from the previously identified contaminated area in the northern portion of the site. The onsite clarifier was reportedly capped and sealed with cement in April 1985. In 1987, Chemical Consultants collected additional soil samples in the excavation area. Sample results indicated concentrations of cadmium, chromium, and copper exceeded soluble threshold limit concentrations (STLCs). In 1993, a temporary asphalt-cap was installed over the excavated area. (Tetra Tech, 2004).

A limited surface and subsurface soil investigation was conducted onsite between 1990 and 1991 for the Los Angeles Unified School District (LAUSD). At the time, LAUSD was considering expanding the adjacent elementary school onto the subject site. During December 1990, thirteen (13) borings were drilled at the site to depths between 10 and 15-feet below ground surface (bgs). Soil samples were analyzed for metals, cyanides, volatile organic compounds (VOCs), and total recoverable petroleum hydrocarbons. Results of the limited investigation found concentrations of cadmium up to 2,400 mg/kg, chromium up to 96 mg/kg, copper up to 3,000 mg/kg, nickel up to 3,800 mg/kg, zinc up to 760 mg/kg, and cyanide up to 60 mg/kg in the upper 5-feet of the samples collected. Lead was detected in a 10-foot sample (HB-5) at a concentration of 320 mg/kg. During September 1991, seven (7) borings were drilled to depths

between 40 and 60-feet bgs. Samples were collected at 5-foot intervals and were analyzed for pH, cyanide, and metals. Tetra Tech noted that the concentrations for a majority of the samples did not reflect values normally reported for analysis of metals in soil. Therefore, the data was treated as suspect. Additionally, nineteen (19) surface soil samples were collected in the vicinity of the former tank spill and excavation. Results of the surface soil samples displayed concentrations lower than those found within the plating structure and did not provide new data of significance (Tetra Tech, 2004).

During May 2003, Tetra Tech conducted soil and soil gas sampling at the subject property. Soil gas samples were collected at depths of 5 and 15-feet bgs from eleven (11) locations (TtSG1-TtSG11) at the subject site. Concentrations of PCE were detected in twelve (12) of the soil gas samples with a maximum concentration of 6.99 µg/L in a 15-foot sample (TtSG5-15). Soil gas samples collected from TtSG9 at 5 and 15-feet were also analyzed for methane and hydrogen sulfide (analytical results for these compounds were non-detect). A total of 216 soil samples were also collected from thirty-one (31) borings during this investigation. The samples were analyzed for PAHs, VOCs, SVOCs, TPH, CAM Metals, hexavalent chromium, cyanide, pH, ethanol glycol, and PCBs. Laboratory analysis of the soil samples indicated that antimony, arsenic, barium, cadmium, chromium, chrome VI, cobalt, copper, lead, mercury, nickel, silver, vanadium, and zinc exceeded the mean concentration value (MCV) calculated from non-impacted soil collected by Tetra Tech during 2003 at the nearby Ross Snyder Recreational Center. The five (5) metals detected at the property in the greatest number of samples and at the highest concentrations included cadmium, copper, lead, nickel, and zinc. Forty-one (41) of 179 samples analyzed for cyanide contained concentrations ranging from 0.52 mg/kg to 403 mg/kg. Tetra Tech concluded that the primary metal contaminants at the subject property were cadmium, copper, lead, nickel, and zinc. The vertical extent of the metal impacts were found at depths between 0.5 and 25-feet bgs. Additionally, PCE and benzene impacts to soil were detected in ten (10) soil samples at concentrations up to 18.3 µg/kg and 15.7 µg/kg, respectively (Tetra Tech, 2004).

In December 2008, AMEC prepared a Remedial Investigation Report for the property. The investigation was conducted to verify the conclusions from previous site investigation work and to assess the lateral and vertical extent of impacts to soil and soil gas identified by Tetra Tech in 2004. AMEC conducted soil and soil gas sampling as part of the investigation. A total of twelve (12) soil gas samples were collected from (6) locations (GSG1-GSG6). Four (4) of the probe locations were multi-depth at 5 and 15-feet bgs. Two (2) of the locations were single-depth probes at 20 and 25-feet bgs. The soil gas samples were analyzed for VOCs via EPA Method 8260B. All twelve (12) samples contained concentrations of PCE ranging from 0.54 µg/L to 3.8 µg/L. AMEC determined that concentrations of VOCs in soil gas were comparable to results previously reported by Tetra Tech. Five (5) of the samples contained concentrations of TCE ranging from 0.13 µg/L to 1.3 µg/L. Soil samples were collected from four (4) boring locations (GSB1-GSB4) on the subject property. Soil sampling locations GSB1, GSB2, and GSB3 were located inside the former RPC building and had soil samples collected from depths of 25, 40, 60,

and 80 feet bgs. Soil sampling location GSB4 was located outside of the former RPC building and was advanced to a maximum depth of 185.5 feet bgs. Groundwater was not encountered during drilling. Samples were collected at depths of 25, 40, 60, and 80 feet bgs from location GSB4. The soil samples were analyzed for metals (including hexavalent chromium) and cyanide. Elevated concentrations of cadmium, copper, and nickel were detected in shallow soils from borings GSB1, GSB2, and GSB3 at depths between 26 and 31 feet. AMEC concluded that hexavalent chromium concentrations (1.1-1.8 mg/kg) were representative of background concentrations. AMEC also concluded that the vertical and lateral extent of COPCs in soil was largely defined with the data collected in combination with the 2004 Tetra Tech data. (AMEC, 2008).

In March 2010, EERG prepared a Removal Action Completion Report that documented the demolition of the former onsite structure addressed as 1531 East 32nd Street and the removal and disposal of approximately 450 cubic yards of metals-impacted soil. EERG utilized the data obtained by Tetra Tech and AMEC, as well as additional soil sampling conducted by EERG on May 12 and 13, 2009, to determine the boundaries of the excavation. The EERG report indicates that the removal action was conducted using a 10-foot by 10-foot grid system surveyed across contaminated soil identified at the site. Individual grid cells were excavated to depths of 1, 3, 5, and 10 feet bgs to meet the remedial action objectives (RAOs). The RAOs for the site included 70 mg/kg of cadmium in soil, 3,100 mg/kg of copper in soil, and 1,600 mg/kg of nickel in soil. Prior to excavation, the RPC building addressed as 1531 East 32nd Street was demolished and soil samples were collected at the base and sidewalls of the planned grid cells. Excavation of contaminated soils at the site began on September 8, 2009 and was completed by September 14, 2009. All excavated soil was manifested and disposed of at an approved receiving facility. Following completion of the excavation, the excavation was inspected and approved by the DTSC project manager then backfilled with clean imported fill. The imported material was placed in 8-inch lifts and compacted to a minimum 90 percent relative maximum dry density. EERG indicated that soil with concentrations exceeding the RAOs remains in place below excavation grids B1, D1, and G3. Soil removal activity at these locations was terminated to maintain stability of the 1527 structure. EERG concluded that due to elevated residual metal concentrations in soil at depths below the excavation limits, DTSC will place a deed restriction in the form of a Land Use Covenant to mitigate potential future human exposure (EERG, 2010).

2.0 SCOPE OF WORK

California Environmental recommends this SMP be implemented for future grading at the property. A pre-grading tailgate meeting is required of the grading contractor ("contractor"), the project geotechnical consultant ("geotech-consultant"), the lead enforcement agency (CalEPA-DTSC), and the qualified environmental consultant ("enviro-consultant") selected by the owner to manage implementation of the SMP. The enviro-consultant will advise the contractor of the requirements of the SMP and the respective duties and responsibilities of the contractor and enviro-consultant. The primary purpose of the SMP is to properly manage soils during removal and disposal of the top two (2) feet of soil across the site to prepare the property for construction of the proposed park. It is planned to conduct this soil removal work while the adjacent school is not in session. The major components of the SMP are:

- Notify CalEPA-DTSC (lead enforcement agency) project manager seven to ten days prior to commencement of grading work.

- Conduct pre-grading HASP tailgate meeting. Obtain all required grading and haul route permits.

- Implement the attached HASP for the grading work.

- Enviro-consultant shall continuously monitor all slab/footing removals and soil movement activities including cutting, filling, drilling and movement of soil at the site. However, the contractor and or geotech-consultant must notify the enviro-consultant and the LEA if odorous, stained, or suspect soil is encountered at the property. The enviro-consultant shall monitor and test soils if so notified by the contractor.

- The enviro-consultant shall conduct continuous direct-reading near real-time ambient monitoring of PM_{10} concentrations as specified by South Coast Air Quality Management District (SCAQMD) Rule 1466 – Control of Particulate Emissions from Soils with Toxic Air Contaminants. A 1466 permit and the notification are required for the grading work. A Dust Control Supervisor trained under SCAQMD Rule 403 will be on site during excavation and loading activities.

- Suspect impacted soil identified in areas shall be segregated, stockpiled, and sampled for the presence of all chemicals of concern described in **Section 4.7**. Sampling frequency shall be at the discretion of the enviro-consultant, but not less than 1 sample per 100 cubic yards of suspect stockpiled soil. Impacted soil shall be profiled and disposed of offsite in a properly California State licensed landfill.

- Proper identification, management, and decommissioning of buried sub-structures (i.e., seepage pits, drums, USTs, clarifiers, septic tanks, etc) is also required. Unknown substructures may be encountered during future grading activities. All underground tanks (USTs), clarifiers, drums and /or unidentified substructures found during future grading require proper management. The grading

contractor must notify the enviro-consultant and the LEA immediately upon uncovering any unknown substructure. The consultants will assist the contractor in the proper and safe identification of the substructure and determine what analytical tests are recommended for assessment. Permits for abandonment of regulated sub-structures must be obtained from the appropriate controlling agencies. Records regarding the uncovering, mitigation, and agency permits/analytical testing associated with unknown substructures must be provided in the post-grading Completion Report.

- The former underground clarifier (discussed in **Section 1.2**) may be present on the Site. If the clarifier was not removed during demolition activities conducted in 2009 by ERRG, the clarifier will need to be abandoned by removal in accordance with local, state, and federal regulations. Permit for abandonment of clarifier must be obtained from the appropriate controlling agencies. Soil beneath the possible onsite clarifier will be sampled for the presence of all chemicals of concern described in **Section 4.7**.

- Prepare a project Completion Report that documents the required monitoring, contains scaled maps showing the location(s) and disposition of the impacted soil encountered, profiles and manifests for soil disposed offsite and lab test data that supports the soil management decisions made by the enviro-consultant.

3.0 OVERVIEW/DESCRIPTION OF GRADING ACTIVITIES

The City of Los Angeles Department of Recreation and Parks acquired the subject property to redevelop as a park; see **Figure 3 – Preliminary Park Plan**. The redevelopment plan would include a children's playground, picnic turf, walking trail(s), an outdoor fitness area, an outdoor community center, seating, and landscaped areas. Per the direction from the DTSC, the City must remove and replace the top two (2) feet of soil across the entire Site in order to prepare the property for construction of the proposed park. DTSC will update the Land Use Covenant for the Site to include to the following new restrictions: a) Prohibitions associated with edible plants; and, b) Maintaining a positive slope and proper drainage system at the Site (after grading) in order to ascertain surface runoff does not accumulate in the depression areas and infiltrate into the residual contaminations left in place.

On October 25, 2019 the Los Angeles Regional Water Quality Control Board (LARWQCB) ordered the City of Los Angeles to determine the presence of per- and polyfluoroalkyl Substances (PFAS) at the Site. A draft Per- and Polyfluoroalkyl Substances Workplan, prepared by Ramboll US Corporation, was submitted to the Los Angeles Regional Water Quality Control Board in March 2020. The Workplan describes the implementation of investigation steps required by the LARWQCB to evaluate if the Site has been impacted by PFAS. Approval of the PFAS Workplan by the LARWQCB is pending.

4.0 SOIL MANAGEMENT AND MONITORING

Soil that is displaced within the property boundaries will be managed according to the processes described in this SMP. This section specifies site access and preparation, chemicals of concern (COCs), identifies soil management areas (SMAs), and describes the processes for monitoring, sampling, characterization, handling, stockpiling, and removal of soil. Approximately 890 cubic yards of soil will be removed from the property, which will require approximately 60 truckloads (super 10 truck).

4.1 SITE ACCESS AND PREPARATION

Prior to commencing work, appropriate fencing (8-foot) with windscreens (50 +/- porosity) will be placed around the site to ensure that all work areas are secure, that trespassers or unauthorized personnel do not enter the work areas, and to minimize fugitive dust emissions. Additionally, no earth-moving activities will begin without an Underground Service Alert (USA) and identification of utilities in and around the work areas. It is recommended that a private utility locator be retained to conduct a utility survey prior to excavation activities.

The project site is less than one acre in size (0.25 acres), so a Stormwater Pollution Prevention Plan (SWPPP) certification is not required. However, standard stormwater Best Management Practices (BMPs) will be used to capture and retain runoff to prevent erosion. Positive slope and proper drainage systems should be maintained at the Site in order to ascertain surface runoff will not accumulate in a depression area(s) or infiltrate into residual contaminations left in place.

4.2 CHEMICALS OF CONCERN

The preceding discussion of the historical assessment data provides the background for the identification of the chemicals of concern (COCs) to be evaluated during grading at the subject property. The following COCs are identified as potential contaminants of concern based on elevated concentrations detected in prior assessments and during the remediation (soil removal) at the site:

- Metals (CA Title 22 Metals – EPA 6020)
  - Cadmium, Copper, Lead, Nickel, & Zinc
- Cyanide (EPA 9010C)
- VOCs – Volatile Organic Compounds (EPA Method 8260B)

The 2004 Tetra Tech report indicates that the primary metal contaminants in soil at the subject property were cadmium, copper, lead, nickel, and zinc. The metals were historically identified at the site with maximum concentrations of 2,400 mg/kg, 3,000 mg/kg, 320 mg/kg, 3,800 mg/kg, and 760 mg/kg, respectively. The 2010 removal action conducted by EERG targeted cadmium, copper, and nickel with remedial action objectives (RAOs) set at 70 mg/kg, 3,100 mg/kg, and 1,600 mg/kg, respectively. The EERG report indicates that some areas with cadmium and copper impacts exceeding RAOs were left in place. Based on the analytical data obtained by EERG, it appears that cadmium up to 780 mg/kg and copper up to 22,000 mg/kg may be encountered during upcoming excavation activities. The following site-specific soil goals are recommended for the property associated with the proposed park site.

TABLE I
Site Specific Soil Goals

Compound	Site Soil Goal (mg/kg)
Cadmium	71
Nickel	820
Copper	3,100
Lead	80
Zinc	23,000
Cyanide	23
PCE	0.59
Benzene	0.33

DTSC HERO Human Health Risk Assessment, Note 3, DTSC-Modified Screening Levels (DTSC-SLs), June 2020.
USEPA - Region 9, Regional Screening Levels, RSLs, November 2020

A project specific Health and Safety Plan (HASP) associated with this SMP will govern the onsite worker and community health and safety monitoring, notification, and reporting requirements. The HASP is attached in **Appendix II**.

4.3 SOIL REMOVAL AND SOIL MANAGEMENT AREAS

The following soil management areas (SMAs) have been determined through evaluation of prior assessment and remediation activities at the subject property. The SMAs are based on the proposed removal of the top two (2) feet of soil across the entire site. The areas listed below and shown on the attached **Figure 2**:

- SMA1 – Area of certified clean fill to a minimum depth of 5-foot bgs.

    - Does not require additional soil characterization prior to disposal, note the landfill may require characterization samples to profile for disposal.
- SMA2 – Area of certified clean fill to a minimum of 1-foot bgs
    - Requires additional soil characterization prior to disposal.
- SMA3 – Area of no past remedial activities.
    - Requires soil characterization prior to disposal.

4.4 SOIL IMPORT

Upon completion of the removal activities, imported certified clean fill will be placed in the excavation to meet final grade requirements. Imported fill material will be evaluated pursuant to DTSC Advisory on Clean Imported Fill Material (2001). One (1) sample of imported soil will be collected per every 250 cubic yards imported. A Phase I Environmental Assessment report provided by the owner(s) of the proposed soil import site(s), prepared per the requirements outlined in ASTM 1527-2013, should be provided to the City of Los Angeles and DTSC for review and approval prior to import of the soil. The imported soil should be tested as described in **Section 4.7**. Imported fill will be compacted to a minimum 90 percent relative dry density or as directed by the project geotechnical engineer.

4.5 AIR MONITORING AND DUST CONTROL

Air monitoring and dust control measures are required during all onsite-grading activities. Adherence to these requirements will prevent adverse impacts to the community during implementation of this plan. The goal is no offsite emission of particulate matter in ambient air as a result of man-made fugitive dust created by earth moving activities during the remediation work. A Dust Control Supervisor trained under SCAQMD Rule 403 will be on site during excavation and loading activities. Real-time ambient monitoring of PM_{10} concentrations, as specified by SCAQMD Rule 1466, will be conducted during the excavation work. Best available control measures should be employed prior to, during, and after earth moving and slab removal operations at the site. The following fugitive dust emissions control measures will be employed at the site during clearing and grubbing, earth moving, soil piling, and loading activities at the site. The following procedures will be implemented:

Clear & Grub: Maintain stability of soil through pre-watering of site prior to clearing and grubbing. Apply water in sufficient quantities to prevent generation of fugitive dust plumes. If necessary a soil binder shall be applied to a freshly excavated area at the end of each working day. Implement required best management practices (BMPs) for storm water management.

Earth-moving: Pre-apply water to the depth of proposed cuts; and re-apply water as necessary to maintain soils in a damp condition and to ensure that visible emissions do not exceed 100 feet in any direction. Stabilize soils once earth-moving activities are completed.

Soil Piling: Apply water to stabilize temporary soil piles. Maintain soil piles to avoid steep sides or faces. Soil piles within 100 yards of off-site occupied buildings must not be greater than eight (8) feet in height; or must have a road bladed to the top to allow water truck access; or must have an operational water irrigation system that is capable of complete stockpile coverage. Piles will not exceed 400 cubic yards of soil. Soil piles will be covered with plastic sheeting at the end of each workday. Soil piles will not accumulate for more than five (5) days onsite. Soil piles will be located a minimum of 50 feet from any concentrated flow of stormwater, drainage courses, and inlets.

Loading: Pre-water material prior to loading. The free fall of soil from the loader into the truck bed will be minimized to prevent excess dust emissions. Empty loader bucket such that no visible dust plumes are created and ensure that the loader bucket is close to the truck to minimize drop height while loading. The loaded trucks will have freeboard space above the top of the load that exceeds six (6) inches. Limit the size of staging area and limit the number and size of staging area entrances and exits. Apply water to stabilize the staging area during use and at project completion.

Slab Removal: Apply water to stabilize surface soils prior to operation of slab removal equipment; and, after the completion of slab removal operation and removal of equipment. Follow permit conditions for slab removal equipment.

General: A water truck will be on site for the duration of the project. Barriers can be used to ensure vehicles are only on established haul routes and parking areas. Use tarps on haul trucks. Dust emission will be further suppressed by placing crushed rock (stabilized construction entrance with shaker plates) on the ingress and egress routes from the site. The street area will be swept daily to remove tracked soil. Brush and clean haul truck tires as necessary to prevent tracking of soil offsite.

4.6 SOIL SAMPLE COLLECTION

Soil samples for metals, TPH, and cyanide analysis will be collected by placing freshly exposed soil in 4-oz. glass jars. Soil samples for VOC analysis will be collected in accordance with EPA method 5035, by pushing a sampling device into the freshly exposed soil surface. The soil cores will be placed directly into laboratory provided 40 ml VOAs (3), containing preservatives (as required by the state accredited lab). The preserved samples will then be placed in a cooler chilled with ice.

All sampling equipment will be decontaminated using a brush and tap water rinse followed by a brush and TSP solution (non-phosphate soap), a tap water rinse, and a deionized water rinse. All sampling equipment will be dried by air or with a towel prior to sampling. Disposable latex gloves and Ziploc bags will be used to prevent cross contamination of the samples. Sample handling, transport, and delivery to the laboratory will be documented using Chain-of-Custody procedures, including the use of Chain-of-Custody forms.

The consultant or a courier will transport the soil samples, following chain of custody procedures, to the laboratory daily. The soil sample analysis turnaround time (TAT) will be determined by the owner. A mobile laboratory may also be used.

4.6.1 Confirmation Soil Samples

A minimum of six (6) confirmation soil samples will be obtained from the base of the soil excavation in Soil Management Areas Two and Three (SMA2 and SMA3). The locations (2 samples from SMA2 and 4 from SMA3) of the confirmation soil samples will be determined in the field by the project environmental consultant in consultation with CalEPA-DTSC project personnel. Additionally, a minimum of eight (8) soil samples will be collected from the excavation sidewalls adjacent to the school property boundaries. The confirmation soil samples will be tested for Total Petroleum Hydrocarbons per EPA Method 8015M, Volatile Organic Compounds per EPA Method 5035/8260B, Cyanide per EPA Method 9010C, and for Title 22 Metals. The collection of additional soil samples during site grading activities may be warranted based on field observations by the enviro-consultant and DTSC personnel.

4.7 LABORATORY ANALYSIS

Soil samples for excavated soil characterization and confirmation sampling will be tested for the following constituents:

- Metals (CA Title 22 Metals – EPA 6020)
- Cyanide (EPA 9010C)

- VOCs – Volatile Organic Compounds (EPA Method 8260B/5035)
- TPH – Total Petroleum Hydrocarbons (EPA Method 8015M)
- pH

Based on the source area, imported soil will be tested for the following minimum constituents:

- Imported from land near an existing freeway
  - Lead (EPA Methods 6010B or 7471A)
  - PAHs - Polycyclic Aromatic Hydrocarbons (EPA Method 8310)
- Imported from land near a mining or rock quarry
  - Heavy Metals (EPA Methods 6010B or 7471A)
  - Asbestos (Polarized light microscopy)
  - pH
- Imported from agricultural land
  - Organochlorine Pesticides (EPA Methods 8081A or 8080A)
  - Organophosphorus Pesticides (EPA Method 8141A)
  - Chlorinated Herbicides (EPA Method 8151A)
  - Heavy Metals (EPA Methods 6010B or 7471A)
- Imported from residential/acceptable commercial land
  - VOCs - Volatile Organic Compounds (EPA Methods 8021 or 8260B/5035)
  - SVOCs - Semi-volatile Organic Compounds (EPA Method 8270C)
  - TPH - Total Petroleum Hydrocarbons (EPA Method 8015M)
  - PCBs - Polychlorinated Biphenyls (EPA Methods 8082 or 8080A)
  - Heavy Metals including Lead (EPA Methods 6010B and 7471A)
  - Asbestos (OSHA Method ID-191)

The sample analysis turn-around time will be dependent upon the urgency of the sample result at the time of collection.

4.8 DISPOSAL OF SOIL

All soil removed from the site soil will be properly profiled, manifested, and disposed of offsite in a California State licensed landfill.

4.9 HAUL ROUTE FOR SOIL DISPOSAL

The haul route will be determined based on the location of the landfill. The final haul route will be provided to DTSC. All trucks loaded with soil will drive over shaker plates to remove excess soil from the tires and under-carriage of the truck. Each truck leaving the site will carry a completed waste manifest. See **Figure 4 – Preliminary Haul Route** for the route to the nearest highway.

4.10 SCHEDULE OF IMPLEMENTATION AND WORK HOURS

Implementation of onsite activities associated with this SMP will be conducted over a 30-day period during summer break, when school is not in session. Work hours will be 7 AM to 4 PM on weekdays. No weekend work is planned.

4.11 REPORTING AND CLOSURE REPORT

A Completion Report will be submitted to DTSC for review and approval within thirty (30) days after the removal activities and confirmation sampling are completed.

5.0 PUBLIC AND WORKER HEALTH AND SAFETY

Refer to the Health and Safety Plan (HASP) attached in **APPENDIX II.**

Should you have any questions or desire any additional information, please contact the undersigned.

Respectfully submitted,

Charles I. Buckley
Professional Geologist No. 4035
Certified Engineering Geologist No. 1250
Certified Hydrogeologist No. 55

Gregory H. Buensuceso
Senior Geologist
Professional Geologist No. 9824

6.0 REFERENCES

1. Department of Toxic Substances Control, *Information Advisory Clean Imported Fill Material*, October 2001.

2. Tetra Tech, *Site Investigation Report – Renu Plating Company Site, 1531 32nd Street, Los Angeles, California,* January 2004.

3. AMEC Geomatrix, Inc., *Remedial Investigation Report, Former RENU Plating Company, 1527 and 1531 East 32nd Street, Los Angeles, California*, December 19, 2008.

4. Engineering/Remediation Resources Group, Inc., *Removal Action Completion Report, Former RENU Plating Company Facility, 1527 and 1531 East 32nd Street, Los Angeles, California*, March 2010.

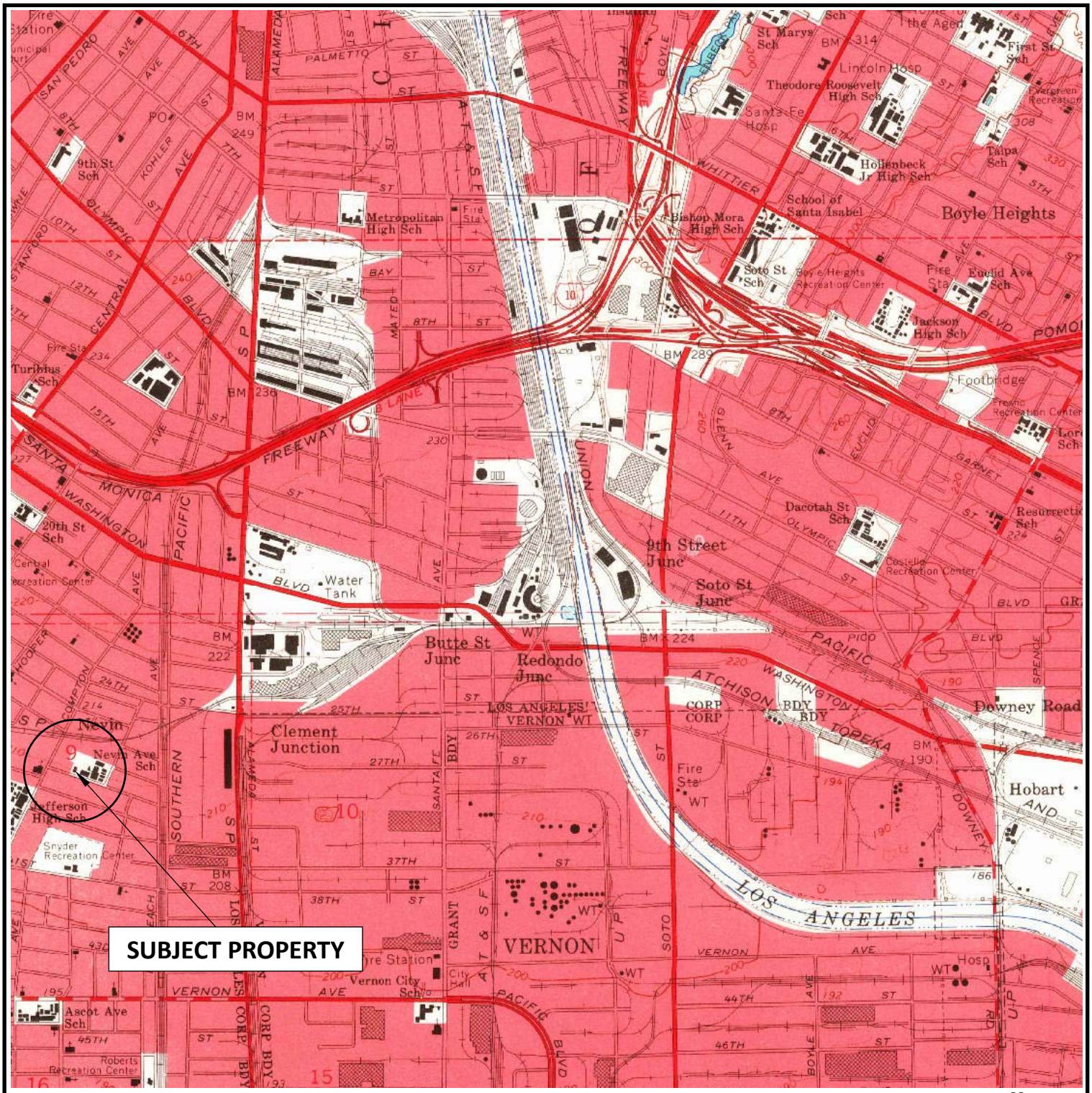
ILLUSTRATIONS

Figure 1 - Vicinity Map

Figure 2 - Site Plan

Figure 3 - Preliminary Park Plan

Figure 4 - Preliminary Haul Route



References: USGS 7.5' Los Angeles Topographic Quadrangle, 1966.

FIGURE 1 - VICINITY MAP
1527 & 1531 East 32nd Street,
Los Angeles, California

Drawn By: GHB	**Job #** EV1218-3538
Checked By: CIB	**Date:** March 2021

California Environmental

3538 Vicinity Map

EXPLANATION

SMA1 – Soil Management Area 1
Area of certified clean fill to a minimum depth of 5-foot bgs

SMA2 – Soil Management Area 2
Area of certified clean fill to a minimum depth of 1-foot bgs

SMA3 – Soil Management Area 3
Area of no past remedial activities

Nevin Avenue Elementary School

SMA3

SMA2

(3 FEET)

(3 FEET)

(1 FOOT)

SMA1

(10 FEET)

(15 FEET)

(5 FEET)

East 32nd Street

References: Google Earth & EERG, Removal Action Completion Report, March 2010

FIGURE 2 - PLOT PLAN

Scale
0 10 20 ft.
1 inch = 20 feet

N W E S

California Environmental			
Client	City of Los Angeles - Rec & Parks	Job #	EV1218-33538
Location	1527 & 1531 East 32nd Street	By	GHB
Date:	March 2021	Checked By	CIB

Scale

0 30 60 ft.

1 inch = 60 feet

N W E S

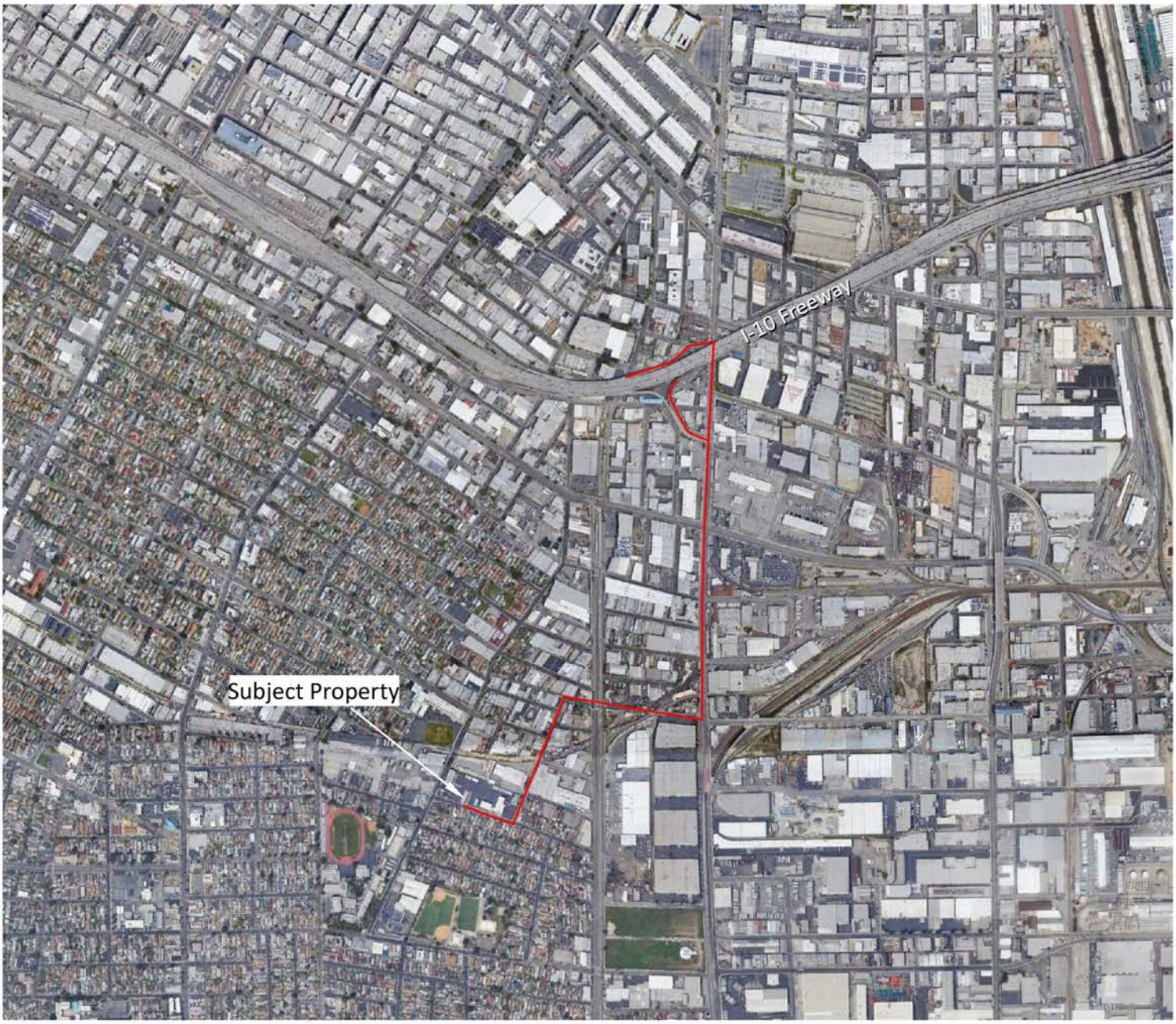
FIGURE 3 - PRELIMINARY PARK PLAN

1527 & 1531 East 32nd Street

Los Angeles, California

Drawn By: GHB	**Job #** EV1218-3538
Checked By: CIB	**Date:** March 2021

California Environmental



Directions:

1) Drive east on East 32nd Street
2) Left turn onto Nevin Avenue
3) Right turn onto East 24th Street
4) Left turn onto South Alameda Street
5) Left turn onto I-10 East on-ramp (or continue on S. Alameda for I-10 West on-ramp)
6) Left turn onto Newton Street
7) Left turn onto I-10 West on-ramp

Scale

0 750 1500 ft.

1 inch = 1500 feet

N W E S

References: Google Earth

FIGURE 4 - PRELIMINARY HAUL ROUTE

1527 & 1531 East 32nd Street

Los Angeles, California

Drawn By: GHB	**Job #** EV1218-3538
Checked By: CIB	**Date:** March 2021

California Environmental

APPENDIX I

Prospective Purchaser Agreement (PPA)

BOARD OF RECREATION AND
PARK COMMISSIONERS

SYLVIA PATSAOURAS
PRESIDENT

LYNN ALVAREZ
VICE PRESIDENT

MELBA CULPEPPER
PILAR DIAZ
MISTY M. SANFORD

ARMANDO X. BENCOMO
COMMISSION EXECUTIVE ASSISTANT II

CITY OF LOS ANGELES
CALIFORNIA

ERIC GARCETTI
MAYOR

DEPARTMENT OF
RECREATION AND PARKS

COMMISSION OFFICE
221 NORTH FIGUEROA STREET
THIRD FLOOR, SUITE 300
LOS ANGELES, CA 90012

Telephone: (213) 202-2640
Facsimile: (213) 202-2610
RAP.Commissioners@LACity.org

MICHAEL A. SHULL
GENERAL MANAGER

February 7, 2017

DEPARTMENT OF TOXIC SUBSTANCES CONTROL
FEB 14 2017
DATE RECEIVED
CYPRESS OFFICE

Department of Toxic Substances Control
5796 Corporate Avenue
Cypress, CA 90630

Attention: Rania A. Zabaneh, Project Manager

Re: Prospective Purchaser Agreement (PPA) Regarding the Former Renu Plating Company / Proposed Nevin Park Site, Located at 1527 and 1531 East 32nd Street, Los Angeles, California (Site Code: 301631)

Gentlepersons:

Enclosed is Contract No. 128860, executed on January 17, 2017, between the City of Los Angeles, by and through its Board of Recreation and Park Commissioners, and the State of California for addressing the environmental issues in the City's acquisition of 1527 East 32nd Street and 1531 East 32nd Street, Los Angeles, California 90011.

Very truly yours,

BOARD OF RECREATION AND
PARK COMMISSIONERS

ARMANDO X. BENCOMO
Commission Executive Assistant II

Enclosure

cc: City Controller (w/ enclosure)
City Attorney (w/ enclosure)
Cid Macaraeg, Real Estate and Asset Management (w/ enclosure)
Departmental Chief Accountant (w/ enclosure)

Contents

STATE OF CALIFORNIA
CALIFORNIA ENVIRONMENTAL PROTECTION AGENCY
DEPARTMENT OF TOXIC SUBSTANCES CONTROL

In the Matter of: Renu Plating Company, Inc., 1527 & 1531 East 32nd Street Los Angeles, California 90011-2213 City of Los Angeles acting by and through its Board of Recreation and Park Commissioners	Docket No. HSA-FY15/16-024 AGREEMENT AND COVENANT NOT TO SUE Health & Safety Code, Sections 25300 et seq., 58009 & 58010

I. INTRODUCTION

1.1. Parties. This Agreement and Covenant Not to Sue (Agreement) is made and entered into by and between the State of California, California Environmental Protection Agency, Department of Toxic Substances Control (DTSC) and the City of Los Angeles acting by and through its Board of Recreation and Park Commissioners (collectively the "Parties").

1.2. Site. This Agreement applies to the site located at 1527 and 1531 East 32nd Street Los Angeles, California, described as County Assessor's Parcel Numbers (APNs) 5117-001-008 and 5117-001-009, respectively (Site). A legal description of the Site is attached hereto as Exhibit "A." A map showing the Site is attached hereto as Exhibit "B."

1.3. Jurisdiction. DTSC enters into this Agreement pursuant to Health and Safety Code sections 25300 et seq. (the Hazardous Substance Account Act), 58009 and 58010. DTSC has the authority to enter into agreements whereby DTSC covenants not to sue or assert claims for environmental remediation against prospective purchasers of environmentally impacted properties, if such agreements are sufficiently in the public interest.

1.4. Purpose. The Parties agree to undertake all actions required by the terms and conditions of this Agreement. The purpose of this Agreement is to settle and resolve, subject to reservations and limitations contained in Sections V (Covenants Not to Sue) and VIII (Certification), the potential liability of the Settling Respondent for the Existing Contamination (hereinafter defined) at the Site that would otherwise result from Settling Respondent becoming the owner of the Site.

1.4.1 The Parties intend and believe that, based upon competent engineering and other data previously considered, the intended uses (and all activities anticipated to be undertaken in

connection therewith) will not exacerbate or contribute to the Existing Contamination (hereinafter defined) or pose unacceptable health risks to persons present at the Site.

1.4.2 The Parties agree that the Settling Respondent's entry into this Agreement, and the actions undertaken by the Settling Respondent in accordance with this Agreement, do not constitute an admission of any liability by the Settling Respondent.

1.4.3 DTSC has determined that the Settling Respondent has established, and Settling Respondent agrees to maintain, adequate financial assurances to ensure completion of actions undertaken by the Settling Respondent in accordance with this Agreement.

1.4.4 In exchange for a substantial benefit to the public, the Settling Respondent and DTSC enter into this Agreement to resolve the Settling Respondent's potential liability. DTSC has determined that this Agreement is fair, reasonable and in the public interest. Settling Respondent intends to create a new public park in the City of Los Angeles through acquisition and development of the Site. Prospective park features may include irrigated landscaping, walkways, play equipment, tables, shade structures, and drinking fountains.

1.4.5 This Agreement shall be subject to the Settling Respondent's acquisition of title to the Site. If Settling Respondent fails to acquire title to the Site, the Agreement shall be null and void and DTSC reserves all rights it may otherwise have against Settling Respondent.

II. DEFINITIONS

2. Unless otherwise expressly provided herein, terms used in this Agreement, which are defined in the Health and Safety Code or in regulations promulgated under the Health and Safety Code, shall have the meaning assigned to them in the Health and Safety Code or in such regulations, including any amendments thereto.

2.1. "DTSC" shall mean the California, Department of Toxic Substances Control and any successor departments or agents of the State of California that may have responsibility for and jurisdiction over the subject matter of this Agreement.

2.2. "Existing Contamination" shall mean any contamination caused by any hazardous substances, pollutants or contaminants, present or existing at, on, or under (including within the groundwater beneath) the Site as of the Effective Date of this Agreement, including without limitation, that contamination identified in the orders, plans, reports, and other documents listed in Exhibit "C" hereto.

2.3. "Land Use Controls" shall mean recorded instruments restricting the present and future uses of the Site, including but not limited, recorded easements, covenants, restrictions or servitudes, or any combination thereof, as appropriate. Land use controls shall run with the land from the date of recordation, pursuant to Health and Safety Code section 25355.5, shall bind all of the owners/occupants of the land, and their heirs, successors, and assignees, and the agents, employees, and lessees of the owners, heirs, successors, and assignees, and shall be enforceable by DTSC pursuant to Health and Safety Code, sections 25355.5 and 25356.1. Land use controls shall also meet the requirements of California Code of Regulations, title 22, section

2.4. "Notice" shall refer to that notice, in the form of Exhibit "D" hereto, to be executed by each successor and/or transferee of the Site owner and Occupant pursuant to Section 9.27 (Notices) hereof.

2.5. "Parties" shall mean the State of California, California Environmental Protection Agency, Department of Toxic Substances Control, and the Settling Respondent.

2.6. "Settling Respondent" shall mean the City of Los Angeles, by and through its Board of Recreation and Park Commissioners.

2.7. "Site" shall mean the Site, which is described in Exhibits "A" and "B" of this Agreement.

III. FINDINGS OF FACT

3. DTSC hereby finds the following:

3.1. Ownership. The Site is owned by Mario Pinzon. Mr. Pinzon owns both parcels that make up the Site, which are identified in Paragraph 1.2 above and Exhibits "A" and "B".

3.2. Site History. From approximately 1955 to 1984, the Site was operated as a plating facility for electroplating of metal products called Renu Plating Company, Inc. (Renu.) Metal plating operations at the Site included the use of acids, solvents, metals, and cyanide. Waste streams generated from the plating process at the Site included sludges and rinsewater containing cyanide and metals. Fred and Edna Rabago operated Renu from 1955 through 1979. The Rabagos are now both deceased. From 1979 through 1984 Eric and David Lichtbach continued to operate Renu at the Site. Operations at the Site included electroplating of metal products polishing operations and metal cleaning. Metal plating and cleaning operations included the use of surfactants, various acids and alkalines, base metals, cyanide, and water baths. Various metal types were used in the plating process, including brass, bronze, cadmium, chrome, copper, nickel and zinc. Cyanide-contaminated, high pH metallic sludges, and rinse waters were the major wastes produced in the plating process.

3.2.1. On January 11, 1983, the Los Angeles County Sanitation District cited Renu for excessive free cyanide in its wastewater. In February 1984, Los Angeles County Health Department (LACHD) inspected the Site and ultimately served Renu with three health department violation notices for improper handling and disposal of hazardous materials. The LACHD inspector observed improper handling of freshly plated materials that allowed plating solutions to drip onto the unpaved surface of the rear yard of the Site. The inspector also observed an overturned plating tank in the rear yard. The analytical results of soil samples taken from the Site during LACHD's inspection showed high levels of cadmium, chromium, copper, cyanide, lead, nickel, and zinc, with a pH between one and two. In July 1984, a cleanup was conducted by the Lichtbachs under the supervision of LACHD. Approximately three feet of topsoil was removed; however, subsequent sampling indicated that contamination was still present, but no further action was taken by the Lichtbachs. Renu discontinued plating operations in 1984.

3.2.2. In January 1987, at the request of Renu, five soil samples were collected from the excavation by LACHD. Laboratory analyses revealed hazardous concentrations of cyanide, low soil pH, and potentially hazardous concentrations of cadmium, copper, lead, and nickel.

3.2.3. In March 1987, Mr. William Morrison acquired the Site and subsequently leased out 1531 East 32nd Street to Mr. Sam Cross who used the property as an auto mechanics shop. On January 26, 1990, LACHD inspected the mechanics shop and consequently issued a Notice of Violation citing the following: storing hazardous waste for longer than 90 days; storing hazardous waste in improper containers and without proper labels;, used batteries and an unknown solid transported for disposal without proper manifesting or an EPA ID number; using gasoline as a solvent; mixing substances with waste oil; and spilling oil in the rear yard.

3.3. Substances Found at the Site. Reports containing soil and soil gas data are listed in Exhibit "E." These reports indicate that the following hazardous substances have been detected in the soil: cadmium, copper, nickel, lead, and zinc. Minimum and maximum concentrations of the specific substances detected in the soil are listed in Exhibit "F." These reports also indicated that the following hazardous substances have been detected in the soil gas: tetrachloroethene (PCE) and trichloroethene (TCE). Minimum and maximum concentrations of the specific substances detected in the soil gas are listed in Exhibit "F."

3.4. The Settling Respondent represents, and for the purposes of this Agreement DTSC relies on those representations, that Settling Respondent's involvement with the Site has been limited to the following: investigation of the Site history and status, and planning for the proposed development.

IV. AGREEMENT

4.1. IT IS HEREBY AGREED THAT DTSC will provide review and oversight of the response activities conducted by the Settling Respondent in accordance with the Scope of Work contained in Exhibit "G." Settling Respondent shall conduct the activities in the manner specified herein and in accordance with the schedule specified in Exhibit "H". All work shall be performed consistent with Health and Safety Code section 25300 et seq., as amended; the National Contingency Plan (40 Code of Federal Regulations (CFR) Part 300), as amended; U.S. EPA and DTSC Superfund guidance documents regarding site investigation and remediation.

4.2 Scope of Work and DTSC Oversight. DTSC shall review and provide Settling Respondent with written comments on all Settling Respondent's deliverables as described in Exhibit "G" (Scope of Work) and, other documents applicable to the scope of the project. DTSC shall provide oversight of field activities, including sampling and remedial activities, as appropriate. DTSC's completion of activities described above shall constitute DTSC's complete performance under this Agreement.

V. COVENANTS NOT TO SUE

5.1. DTSC's Covenant Not to Sue. Subject to Section 5.2. (DTSC's Reservation of Rights) and Section 5.3 (DTSC's Reservation of Rights as to Unknown Conditions or New Information of this Agreement), and upon completion of the work described in Exhibit "G" (Scope of Work) to the satisfaction of DTSC, DTSC covenants not to sue or take any civil, judicial, or administrative action, to pursue any claim, enter any order or make any demand against Settling Respondent for claims pursuant to section 107 of CERCLA, 42 U.S.C. § 9607; section 7003 of RCRA; 42 U.S.C. § 6973; or chapters 6.5 (commencing with section 25100) and 6.8 (commencing with section 25301), division 20 of the California Health and Safety Code, or pursuant to other applicable laws, regulations or civil, judicial, or administrative authorities, solely with respect to the Existing Contamination at the Site and arising solely from the ownership, operation, or possession of the Site, or any portion thereof. This Covenant shall inure to the benefit of, and pass with each and every portion of the Site and shall benefit any respective successors and assignees thereof.

5.2. DTSC's Reservation of Rights. The covenant not to sue set forth in Section 5.1. (DTSC's Covenant Not to Sue) above does not pertain to any matters other than those expressly specified in that Section. DTSC reserves, and this Agreement is without prejudice to, all rights against Settling Respondent with respect to all other matters, including but not limited to, the following:

(a) claims based on a failure by Settling Respondent and its successors or assignees to meet a requirement of this Agreement;

(b) any liability resulting from past or future releases of hazardous substances, pollutants or contaminants, at or from the Site caused or contributed to by Settling Respondent and its successors or assignees;

(c) any liability resulting from exacerbation by Settling Respondent and its successors or assignees of Existing Contamination;

(d) any liability resulting from the release or threat of release of hazardous substances, pollutants or contaminants, at the Site after the Effective Date of this Agreement, not within the definition of Existing Contamination;

(e) any liability resulting from mismanagement of hazardous wastes at or from the Site after the Effective Date of this Agreement;

(f) criminal liability;

(g) liability for damages for injury to, destruction of, or loss of natural resources, and for the costs of any natural resource damage assessment incurred by agencies other than DTSC

(h) liability for transportation and disposal after the Effective Date of this Agreement by Settling Respondent and its successors or assignees; and

(i) liability for violations of local, state or federal law or regulations.

5.2.1. With respect to any claim or cause of action asserted by DTSC, the Settling Respondent and/or its successors and assignees shall bear the burden of proving that the claim or cause of action, or any part thereof, is attributable solely to Existing Contamination.

5.2.2. If Settling Respondent and/or any successor or assignee is determined, through adjudication or the administrative or the regulatory processes, to have committed an act or omission after the Effective Date for which DTSC has specifically reserved its rights in (a) through (h) above, Settling Respondent (if it was so determined to have committed the act or omission), or the particular successor or assignee that was determined to have committed the act or omission, shall be liable for all enforcement costs including, but not limited to, litigation costs, incurred by DTSC in conjunction with that act or omission.

5.2.3. Nothing in this Agreement is intended as a release or covenant not to sue for any claim or cause of action, administrative or judicial, civil or criminal, past or future, in law or in equity, which DTSC may have against any person, firm, corporation, or other entity not a party to this Agreement.

5.2.4. Nothing in this Agreement is intended to limit the right of DTSC to undertake future response actions at the Site or to seek to compel parties other than the Settling Respondent and/or any successor and assignee to perform or pay for response actions at the Site. Nothing in this Agreement shall in any way restrict or limit the nature or scope of response actions which may be taken or be required by DTSC in exercising its authority under federal and state law. Settling Respondent acknowledges that it is purchasing property where response actions may be required.

5.3. DTSC's Reservation of Rights as to Unknown Conditions or New Information. The covenant not to sue set forth in Section 5.1 (DTSC's Covenant Not to Sue) does not apply (and DTSC reserves the right to seek modification of this Agreement or to institute an action under federal or state law, or to take administrative action against any person), if previously unknown conditions are discovered or information is received, in whole or in part, after the Effective Date, and these previously unknown conditions or this new information demonstrate that Settling Respondent or a particular successor or assignee is liable for the Existing Contamination for reasons other than that liability that may be incurred solely by virtue of holding or acquiring an interest in the Site (as is expressly contemplated in Section 5.1 [DTSC's Covenant Not to Sue] above). This reservation shall apply only to that successor or assignee with respect to whom such unknown conditions discovered hereunder pertain.

5.4. Settling Respondent's Covenant Not to Sue. In consideration of DTSC's Covenant Not to Sue in Section 5.1. of this Agreement, the Settling Respondent hereby covenants not to sue and not to assert any claims or causes of action against DTSC, its authorized officers, employees, or representatives with respect to the Site or this Agreement, including but not limited to: (i) any direct or indirect claim for reimbursement from the Hazardous Waste Control Account, Hazardous Substance Account, or Hazardous Substance Cleanup Fund through Health and Safety Code section 25375 or any other provision of law; (ii) any claim against the State of California under sections 107 or 113 of CERCLA (42 U.S.C. § 9607 or 42 U.S.C. § 9613) or section 7003 of RCRA (42 U.S.C. § 6973); (iii) any other claims arising out of response activities at the Site, including but not limited to nuisance, trespass, takings, equitable indemnity and

indemnity under California law, or strict liability under California law, based on DTSC's oversight activities or approval of plans for such activities. This Covenant is made and given, effective upon execution by Settling Respondent of this Agreement and of a Notice by each successor and assignee, and does not extend to or bind any other persons.

5.5. Settling Respondent's Reservation of Rights. The Settling Respondent reserves, and this Agreement is without prejudice to, actions against DTSC based on gross negligence or willful misconduct taken directly by DTSC, not including oversight or approval of the Settling Respondent's plans or activities, that are brought pursuant to the Hazardous Waste Control Account, Hazardous Substance Account, or Hazardous Substance Cleanup Fund through Health and Safety Code section 25375, CERCLA, or RCRA.

VI. CONTRIBUTION PROTECTION

6.1. With regard to claims for contribution against Settling Respondent, the Parties hereto agree that the Settling Respondent is entitled to protection from contribution actions or claims as provided by CERCLA section 113(f)(2) (42 U.S.C. § 9613(f)(2)) for matters addressed in this Agreement. The matters addressed in this Agreement are all response actions taken or to be taken and response costs incurred or to be incurred by DTSC or any other person for the Site with respect to the Existing Contamination.

6.2. The Settling Respondent agrees that with respect to any suit or claim for contribution brought by it for matters related to this Agreement it will notify DTSC in writing no later than sixty (60) days prior to the initiation of any such suit or claim.

6.3. The Settling Respondent also agrees that with respect to any suit or claim for contribution brought against it for matters related to this Agreement it will notify in writing DTSC within ten (10) days of service of the complaint on them.

VII. DUE CARE/COOPERATION

7. The Settling Respondent shall exercise due care at the Site with respect to the Existing Contamination and shall comply with all applicable local, state, and federal laws and regulations. The Settling Respondent shall also comply with all obligations needed to maintain the final remedy, including land use controls. The Settling Respondent recognizes that the implementation of response actions at the Site may interfere with the Settling Respondent's use of the Site, and may require closure of its operations or a part thereof. The Settling Respondent agrees to cooperate fully with DTSC in the implementation of response actions at the Site and further agree not to interfere with such response actions. DTSC agrees, consistent with its responsibilities under applicable law, to use reasonable efforts to minimize any interference with the Settling Respondent's operations by such entry and response. In the event the Settling Respondent becomes aware of any action or occurrence that causes or threatens a release of hazardous substances, pollutants, or contaminants at or from the Site that constitutes an emergency situation or may present an immediate threat to public health or welfare or the environment, Settling Respondent shall immediately take all appropriate action to prevent, abate, or minimize such release or threat of release, and shall, in addition to complying with any applicable notification

requirements under the Health and Safety Code, or any other law, immediately notify DTSC of such release or threatened release.

VIII. CERTIFICATION

8. By entering into this Agreement, the Settling Respondent certifies that to the best of its knowledge and belief it has fully and accurately disclosed to DTSC all information known to Settling Respondent and all information in the possession or control of its officers, directors, employees, contractors, and/or agents, which relates in any way to any Existing Contamination or any past or potential future release of hazardous substances, pollutants, or contaminants at or from the Site and to its qualification for this Agreement. The Settling Respondent also certifies that to the best of its knowledge and belief it has not caused or contributed to a release or threat of release of hazardous substances or pollutants or contaminants at the Site. If DTSC determines, within its sole discretion, that information provided by the Settling Respondent is not materially accurate and complete, DTSC's Covenant Not to Sue in Section V (Covenants Not to Sue) of the Agreement shall be null and void and DTSC reserves all rights it may otherwise have against Settling Respondent.

IX. GENERAL PROVISIONS

9.1. Site Access. Commencing upon the date that it acquires title to the Site, and thereafter, Settling Respondent, agrees to provide access to the Site and laboratories used for analyses of samples under this Agreement at all reasonable times to employees, contractors, and consultants of DTSC. Nothing in this section is intended or shall be construed to limit in any way the right of entry or inspection that DTSC or any other agency may otherwise have by operation of any law. DTSC and its authorized representatives shall have the authority to enter and move freely about all property at the Site at all reasonable times for purposes including, but not limited to: inspecting records, operating logs, sampling and analytic data, and contracts relating to this Site; reviewing the progress of Settling Respondent in carrying out the terms of this Agreement; conducting such tests as DTSC may deem necessary; and verifying the data submitted to DTSC by Settling Respondent.

9.2. Site Access for Respondents Conducting Response Activities. The Settling Respondent shall grant access to parties conducting response activities pursuant to this Agreement or for activities deemed necessary by DTSC to complete required response activities. The Settling Respondent shall ensure that a copy of this Agreement is provided to any current lessee or sublessee on the property as of the Effective Date of this Agreement and shall ensure that any subsequent leases or subleases in the Site are consistent with this Section, and Section 9.25 (Parties Bound), of this Agreement.

9.3. Cost Recovery. Subject to Section 5.1 (DTSC's Covenant Not to Sue), the Settling Respondent is liable for all of DTSC's costs incurred in responding to the contamination at the Site including costs of overseeing response work performed by the Settling Respondent for matters addressed by this Agreement, including costs incurred by DTSC in association with preparation of this Agreement, and costs to be incurred in the future. Response costs incurred include interest on unpaid amounts that are billed and outstanding more than 60 days from the

date of the invoice sent to Settling Respondent. Cost recovery may be pursued by DTSC under CERCLA, Health and Safety Code Section 25360, or any other applicable state or federal statute or common law. The State of California reserves the right to bring an action against Settling Respondent under CERCLA, Health and Safety Code Section 25360, or any other applicable state or federal statute or common law, for recovery of all response and oversight costs incurred by the State of California related to this Agreement and not reimbursed by Settling Respondent, as well as any other unreimbursed future costs incurred by the State of California in connection with response activities at the Site.

9.4. Future Costs. With respect to DTSC's review of response activities performed by the Settling Respondent pursuant to this Agreement, the Respondent shall pay all costs of DTSC's review of activities by Settling Respondent or Respondents' agents under this Agreement and/or related to this Agreement, as such costs are incurred. Costs of DTSC's review of Settling Respondents' activities include all direct and indirect costs. Under all circumstances, Settling Respondent shall remain liable for all costs incurred by DTSC for matters addressed by this Agreement as specified by Health and Safety Code section 25360, including interest thereon as provided by law. DTSC shall bill Settling Respondent on a quarterly basis for response and oversight costs incurred during the previous quarter. DTSC shall provide Settling Respondent with a summary description of DTSC's oversight activities for which it seeks oversight costs. Settling Respondent shall maintain the right to review and make copies of documentation supporting the costs claimed by DTSC. Settling Respondent shall remit payment as specified in the billing within sixty (60) days of the date of the billing. Outstanding costs not paid within the sixty (60) days are subject to interest charges.

9.5. Payment. All payments made by the Settling Respondent pursuant to this Agreement shall be by check made payable to the "Department of Toxic Substances Control", and bearing on its face the project code for the site (301631) and the docket number of this Agreement. Payments shall be sent to:

Department of Toxic Substances Control
Accounting/Cashier
1001 I Street, 21st Floor
P.O. Box 806
Sacramento, California 95812-0806

A photocopy of the check shall be sent concurrently to DTSC's Project Manager/Regional Branch Chief.

9.5.1. If any bill is not paid by the Settling Respondent within sixty (60) days after it is sent by DTSC, the Settling Respondent may be deemed to be in material default of this Agreement.

9.6. Project Coordinator. The work performed pursuant to this Agreement shall be under the direction and supervision of a qualified project coordinator, with expertise in hazardous substance site cleanup. The Settling Respondent shall submit: a) the name and address of the project coordinator; and b) in order to demonstrate expertise in hazardous substance site cleanup, the résumé of the coordinator. The Settling Respondent shall promptly notify DTSC of any change in the identity of the Project Coordinator. All engineering and geological work shall be conducted in conformance with applicable state law, including but not limited to, Business and Professions

Code sections 6735 and 7835.

9.7. Submittals. All notices, documents and communications required to be given under this Agreement, unless otherwise specified herein, shall be sent to the respective parties at the following addresses:

John E. Scandura
Regional Branch Chief
Cypress Cleanup Office
Brownfields and Environmental Restoration Program
Attention: Rania Zabaneh, Project Manager
Department of Toxic Substances Control
5796 Corporate Avenue
Cypress, California 90630

Michael Shull, General Manager
City of Los Angeles
Department of Recreation and Parks
221 North Figueroa Street, Suite 350
Los Angeles, California 90017

9.8. Communications. All approvals and decisions of DTSC made regarding submittals and notifications will be communicated to Settling Respondent in writing by the Site Mitigation Branch Chief, Department of Toxic Substances Control, or his/her designee. No informal advice, guidance, suggestions or comments by DTSC regarding reports, plans, specifications, schedules or any other writings by Settling Respondent shall be construed to relieve Settling Respondent of the obligation to obtain such formal approvals as may be required.

9.9. DTSC Review and Approval.

9.9.1. If DTSC determines that any report, plan, schedule, or other document submitted for approval pursuant to this Agreement fails to comply with this Agreement or fails to protect public health or safety or the environment, DTSC may:

(a) Return comments to Settling Respondent with recommended changes and a date by which Settling Respondent must submit to DTSC a revised document incorporating the recommended changes;

(b) Provide an opportunity for Settling Respondent to discuss the recommended changes with DTSC, which shall not occur more than 10 days from the date DTSC returns its comments to Settling Respondent; and

(c) If the revised document submitted by Settling Respondent to DTSC fails to respond to DTSC's comments to DTSC's satisfaction, then DTSC may modify the document as deemed necessary and approve the document as modified.

9.9.2. Any modifications, comments, or other directives issued pursuant to Section 9.9.1 above, are hereby incorporated into this Agreement by this reference. Any noncompliance with these modifications or directives shall be deemed a failure or refusal to comply with this Agreement.

9.10. Compliance with Applicable Laws. Settling Respondent shall carry out this Agreement in compliance with all applicable state, local, and federal laws, regulations and requirements including, but not limited to, requirements to obtain permits and to assure worker safety.

9.11. Sampling, Data, and Document Availability. Settling Respondent shall permit DTSC and its authorized representatives to inspect and copy all sampling, testing, monitoring, or other data generated by Settling Respondent or on Settling Respondent's behalf that in any way pertains to work undertaken pursuant to this Agreement. Settling Respondent shall submit all such data upon the request of DTSC. Copies shall be provided within seven (7) days of receipt of DTSC's written request. Settling Respondent shall inform DTSC at least seven (7) days in advance of all field sampling under this Agreement, and shall allow DTSC and its authorized representatives to take duplicates of any samples collected by Settling Respondent pursuant to this Agreement. Settling Respondent shall maintain a central depository of the data, reports, and other documents prepared pursuant to this Agreement.

9.12. Record Retention. All such data, reports, and other documents shall be preserved by Settling Respondent for a minimum of ten (10) years after the conclusion of all activities under this Agreement. If DTSC requests that some or all of these documents be preserved for a longer period of time, Settling Respondent shall either comply with that request or deliver the documents to DTSC, or permit DTSC to copy the documents prior to destruction. Settling Respondent shall notify DTSC in writing, at least six (6) months prior to destroying any documents prepared pursuant to this Agreement and shall provide DTSC with an opportunity to copy any documents at the expense of DTSC.

9.13. Government Liabilities. The State of California shall not be liable for any injuries or damages to persons or property resulting from acts or omissions by Settling Respondent, or related parties specified in Section 9.25, (Parties Bound), in carrying out activities pursuant to this Agreement, nor shall the State of California be held as party to any contract entered into by Settling Respondent or its agents in carrying out activities pursuant to this Agreement.

9.14. Additional Actions. By entering into this Agreement, DTSC does not waive the right to take any further actions authorized by law.

9.15. Extension Requests. If Settling Respondent is unable to perform any activity or submit any document within the time required under this Agreement, Settling Respondent may, prior to expiration of the time, request an extension of the time in writing. The extension request shall include a justification for the delay. All such requests shall be in advance of the date on which the activity or document is due.

9.16. Extension Approvals. If DTSC determines that good cause exists for an extension, it will grant the request and specify a new schedule in writing. Settling Respondent shall comply with the new schedule incorporated in this Agreement.

9.17. Severability. The requirements of this Agreement are severable, and Settling Respondent shall comply with each and every provision hereof, notwithstanding the effectiveness of any other provision.

9.18. Incorporation of Plans, Schedules, and Reports. All plans, schedules, reports, specifications, and other documents that are submitted by Settling Respondent pursuant to this Agreement are incorporated in this Agreement upon DTSC's approval or as modified pursuant to Section 9.9, (DTSC Review and Approval), and shall be implemented by Settling Respondent. Any noncompliance with the documents incorporated in this Agreement, shall be deemed a failure or refusal to comply with this Agreement.

9.19. Modifications. This Agreement may be amended in writing by mutual agreement of DTSC and Settling Respondent. Any amendment to this Agreement shall be effective upon the date the modification is signed by DTSC and shall be deemed incorporated in this Agreement.

9.20. Time Periods. Unless otherwise specified, time periods begin from the Effective Date of this Agreement and "days" means calendar days.

9.21. Effective Date. The Effective Date of this Agreement is the date when this Agreement is fully executed by the Parties.

9.22. Counterparts. This Agreement may be executed and delivered in any number of counterparts, each of which when executed and delivered shall be deemed to be an original, but such counterparts shall together constitute one and the same document.

9.23. Third Party Actions. In the event that the Settling Respondent is a party to any suit or claim for damages or contribution relating to the Site to which DTSC is not a party, the Settling Respondent shall notify DTSC in writing within ten (10) days after service of the complaint in the third-party action. Settling Respondent shall pay all costs incurred by DTSC relating to such third-party actions, including but not limited to responding to subpoenas or public records act requests.

9.24. Governing Law. This Agreement shall be construed and governed by the laws of the State of California.

9.25. Parties Bound. This Agreement shall apply to and be binding upon DTSC, and shall apply to and be binding on the Settling Respondent and its officers, directors, agents, employees, contractors, consultants, receivers, trustees, successors, and assignees, including but not limited to individuals, partners, and subsidiary and parent corporations, and upon any successor agency of the State of California that may have responsibility for and jurisdiction over the subject matter of this Agreement.

9.26. Transfer. Notwithstanding any other provisions of this Agreement, all of the rights and benefits conferred upon Settling Respondent under this Agreement may be assigned or transferred to any person pursuant to Section 9.27, (Notices). In the event of an assignment or transfer of the Site or an assignment or transfer of an interest in the Site, the Settling Respondent shall continue to be bound by all the terms and conditions, and subject to all the benefits, of this Agreement.

9.27. Notices. Prior to or simultaneous with any assignment or transfer of the Site, the assignee or transferee shall as a precondition to receiving the benefit of the DTSC Covenant Not to Sue, execute a written instrument in the form attached hereto as Exhibit D, which shall accompany each purchase relating to the Site.

9.28. Representative Authority Each undersigned representative of the Parties to this Agreement certifies that she or he is fully authorized to enter into the terms and conditions of this Agreement and to execute and legally bind the Parties to this Agreement.

9.28. Exhibits All exhibits attached to this Agreement are incorporated herein by this reference. The Exhibits include: Exhibit "A," Legal Description; Exhibit "B," Map of Site; Exhibit "C," List of Documents Identifying Existing Contamination; Exhibit "D," Notice of Property Transfer and Covenant Not to Sue; Exhibit "E," List of Reports that Identify Soil and Soil Gas Data; Exhibit "F," Minimum and Maximum Concentrations of the Specific Substances Detected in the Soil and Soil Gas; Exhibit "G," Scope of Work; Exhibit "H," Schedule of Work and Exhibit "I," Cost Estimate.

X. NOTICE OF SETTLEMENT

10. This Agreement shall be subject to a thirty-day comment period, after which DTSC may modify or withdraw its consent to this Agreement if comments received disclose facts or considerations that indicate that this Agreement is inappropriate, improper, or inadequate. DTSC will prepare a notice of its intent to enter into this Agreement with the Settling Respondent. The Notice will be published in the California Regulatory Notice Registry. The notice shall require that all comments be forwarded simultaneously to Settling Respondent or its designee and DTSC.

(Signature Page to Follow)

IN WITNESS WHEREOF, the Parties execute this Agreement as of the date set forth below.

THE CITY OF LOS ANGELES acting by and through its BOARD OF RECREATION AND PARK COMMISSIONERS

Date: 9/9/16

By: _____
President

Date: 9/9/16

By: _____
Secretary

Approved as to Form:
MICHAEL N. FEUER, City Attorney
By: _____

Dated: Sept 14, 2016

Attested By:
HOLLY L. WOLCOTT, City Clerk

BY: _____
Deputy

Dated: 1/27/17

C-128860

_____
Department of Toxic Substances Control,
John E. Scandura
Branch Chief
Cypress Cleanup Office
Brownfields and Environmental Restoration Program

January 17, 2017
Date

EXHIBIT "A"
LEGAL DESCRIPTION OF RENU FACILITY
IN THE CITY OF LOS ANGELES, COUNTY OF LOS ANGELES
STATE OF CALIFORNIA

A parcel of land in the City of Los Angeles, County of Los Angeles, State of California being all of lots 7 and 8 of the Hannon Tract as per map filed in Book 14, page 34 of Maps in the Office of the County Recorder of said County being more particularly described as follows:

BEGINNING at the intersection of the Northeasterly Right-of-Way of 28th Street as shown on said map, said 28th Street being changed to 32nd Street by reference on said map, and the Northwesterly Right-of-Way of the Los Angeles Railway, said intersection also being the most Southerly corner of Said lot 8;

thence along said Northwesterly Railway Right-of-Way, and the Southeasterly line of said Lot 8, North 26°03' East, 92.01' to a tangent curve concave Southwesterly having a Radius of 45 feet;

thence Northerly and Northwesterly along said curve, said Railway Right-of-Way, and the Northeasterly lines of said Lots 8 and 7; through a central angle of 99°34'30", an arc length of 78.21 feet;

thence, tangent to said curve, continuing along said Railway Right-of-Way, and the Northeasterly line of Lot 7, North 73°31'30" West, 31.61 feet to the most Northerly corner of said Lot 7;

thence, leaving said Railway Right-of-Way, along the Northwesterly line of said Lot 7, South 26°03' West, 142.84' to the most Westerly corner of said Lot 7 and the hereinabove described Northeasterly Right-of-Way of 28th Street;

thence, along said Right-of-Way, and the Southwesterly line of Lots 7 and 8, South 71°55' East, 84.46' to the **POINT OF BEGINNING.**

The hereinabove described parcel of land containing 11,414.26 square feet, more or less.

I hereby state that the foregoing legal description was prepared by me or under my direct supervision on December 7, 2009.

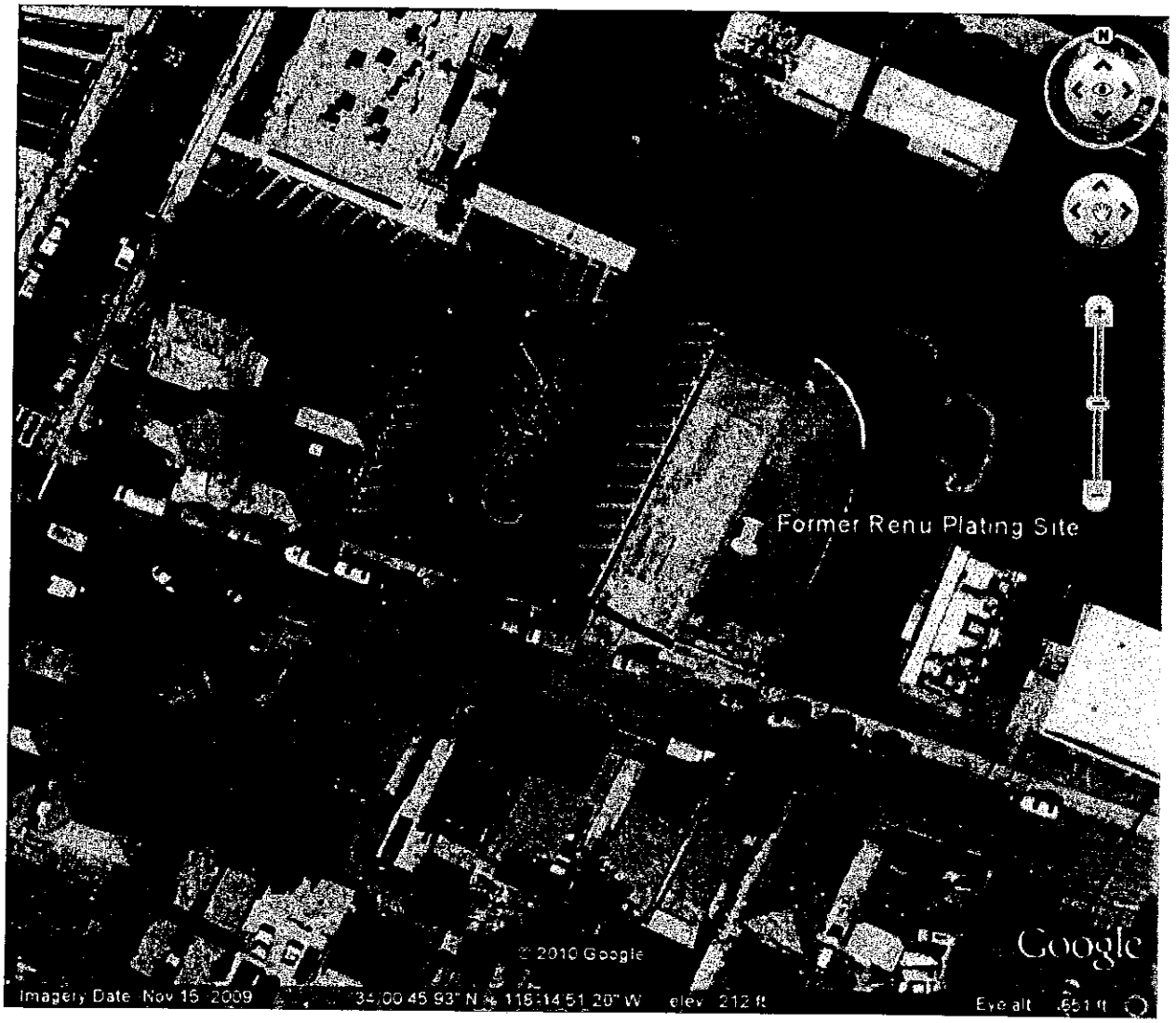
Bruce F. Hunsaker, PLS 5921

LICENSED LAND SURVEYOR
BRUCE F. HUNSAKER
NO. 5921
EXP. 12/31/10
STATE OF CALIFORNIA

December 7, 2009
ERRG – RENU Site
13111-101-052

EXHIBIT B

MAP OF SITE



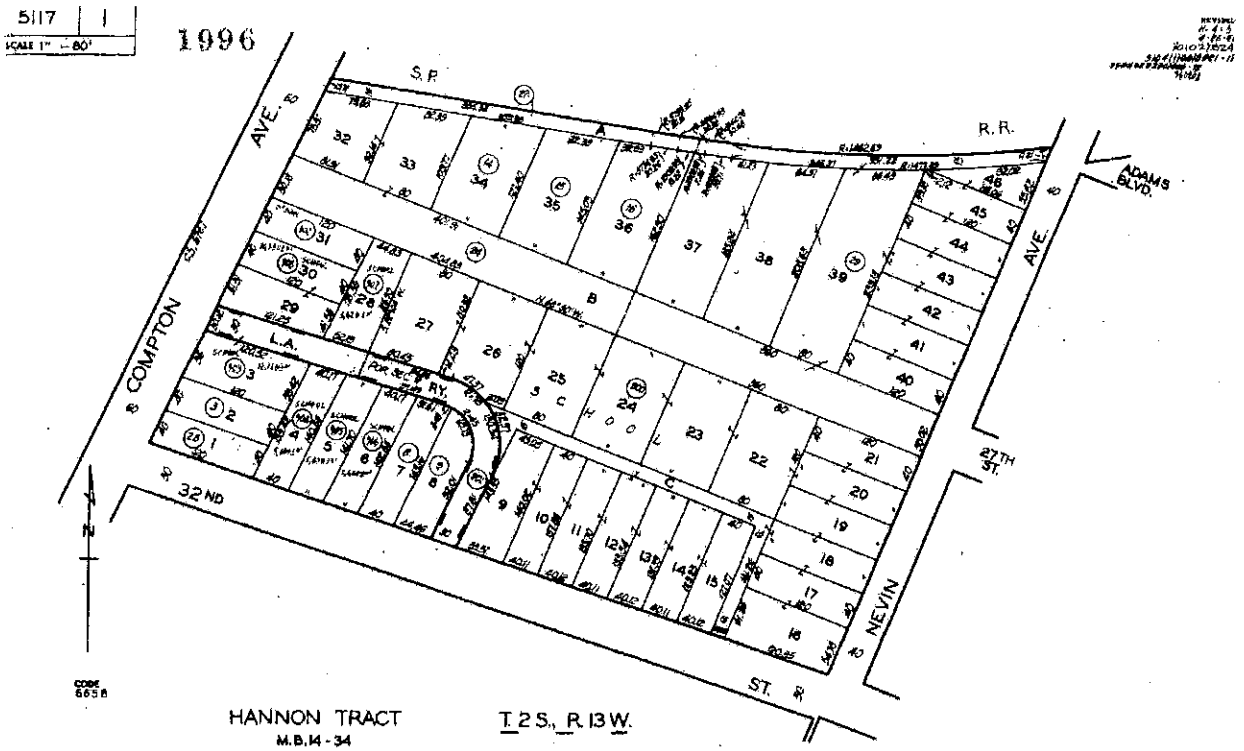

5117 | 1
SCALE 1" = 80'
1996
S. P.
R. R.
ADAMS BLVD.
COMPTON AVE.
NEVIN AVE.
27TH ST.
32ND ST.
L.A. RY.
HOOL
HANNON TRACT
M.B. 14 - 34
T. 2 S., R. 13 W.
CODE 665 B
FOR PREV. ASSM'T. SEE: 49 - 6
ASSESSOR'S MAP
COUNTY OF LOS ANGELES, CALIF.

EXHIBIT C

LIST OF DOCUMENTS IDENTIFYING EXISTING CONTAMINATION

Document ID	Date	Title/Description	Document Type	Prepared By/From	Prepared For/To
1	1/30/2004	Site Investigation Report	Report - Investigation	Tetra Tech, Inc.	DTSC
2	12/19/2008	Remedial Investigation Report	Report - Investigation	AMEC	DTSC
3	5/27/2009	Removal Action Workplan	Report for Removal Action	Engineering/ Remediation Resources Group, Inc. (ERRG)	DTSC
4	3/8/2010	Removal Action Completion Report	Report	ERRG	DTSC
5	10/20/2011	Covenant to Restrict Use of Property (LUC)	Environmental Land Use Restriction	DTSC	Current Property Owner

EXHIBIT D

NOTICE OF PROPERTY TRANSFER AND
COVENANT NOT TO SUE

The _____ [Name of Owner] (the "Undersigned") became an Owner [Holder of a Property Interest] of the property located at _____ [Address], California (the "Site") on _____, 20__. Capitalized terms not defined herein shall have the meaning ascribed in the Agreement (hereinafter defined).

1. The Undersigned, by signing below, verifies that it has read the Agreement and Covenant Not to Sue (the "Agreement") entered into between the California Environmental Protection Agency, Department of Toxic Substances Control ("DTSC") and the City of Los Angeles, DTSC Docket No. _____ as of the Effective Date set forth in the Agreement.

2. The Undersigned understands and agrees that Section 5.1 of the Agreement contains DTSC's Covenant not to pursue enforcement actions against the Owner of the Site (the "DTSC Covenant").

3. The Undersigned also understands and agrees that it may enjoy the benefits of the DTSC Covenant only if the Undersigned covenants not to sue DTSC pursuant to the covenant set forth in Section 5.4 of the Agreement.

4. The Undersigned further understands and agrees that its right to rely upon and benefit from the DTSC Covenant is expressly subject to and conditioned upon its own, and only its own, compliance with its obligations under the Agreement, including all exhibits, attachments, and appendices thereto.

5. Submittals to the Undersigned, pursuant to Section 9.7 of the Agreement, shall be addressed as follows:

[Name of Company] _____
[Street Address] _____
[City, County, _____
State, Zip Code]
Attention: _____
Telephone: _____
Fax: _____

The Undersigned, by signing below, verifies that (a) it is aware that hazardous substances have been found within the boundaries of the Site, and (b) such condition

renders its interest in the Site subject to the Agreement and to all applicable laws and regulations of the State of California.

The individual acting as agent for the Undersigned, by signing below, certifies that she or he is fully authorized to enter into the terms and conditions of this Notice and to execute and legally bind the Undersigned to this Notice.

Dated: _____

_____
[Typed Name of Person Authorized to Sign on Behalf of Owner]
Title: _____

To become effective, this Notice must be sent by United States mail, postage paid, certified, return receipt requested to:

John E. Scandura
Regional Branch Chief
Cypress Cleanup Office
Brownfields and Environmental Restoration Program
Attention: Rania Zabaneh, Project Manager
Department of Toxic Substances Control
5796 Corporate Avenue
Cypress, California 90630

This Notice shall be effective three (3) business days after deposit in the mail if mailed by United States mail, postage paid, certified, return receipt requested.

EXHIBIT E

LIST OF REPORTS THAT IDENTIFY SOIL AND SOIL GAS DATA

Document ID	Title	Document Type	Date	Prepared by	Prepared for
1	Site Investigation (SI)	Report	1/30/2004	Tetra Tech, Inc.	DTSC
2	Remedial Investigation (RI)	Report	12/19/2008	AMEC Geomatrix	DTSC
3	Removal Action Completion Report (RACR)	Report	5/27/2009	ERRG	DTSC

EXHIBIT F

MINIMUM AND MAXIMUM CONCENTRATIONS OF THE SPECIFIC SUBSTANCES DETECTED IN THE SOIL AND SOIL GAS

Soil Gas Sample Results (Table 4 in RI Report, dated 9/19/2008)

Substance Detected	Min	Max	Max Location
Tetrachloroethene (PCE)	0.51 µg/L	3.8 µg/L	GSG1 @ 5 feet
Trichloroethene (TCE)	0.13 µg/L	1.3 µg/L	GSG6 @ 5 feet

Soil Sample Results (Table 5-11 in SI Report dated January 2004

Substance Detected	Min	Max	Max Location
Lead (Pb)	< 2.5 mg/kg	625 mg/kg	TtB-44 @ 0.5 ft
Zinc (Zn)	6.35 mg/kg	735 mg/kg	TtB-44 @ 5 ft

Soil Sample Results (Table 1 in RACR Report, dated March 2010)

Substance Detected	Objective	Min	Max	Max Location
Cadmium (Cd)	70 mg/kg	0.54 mg/kg	3,300 mg/kg	B1 Center @ 15 ft
Copper (Cu)	3,100 mg/kg	7 mg/kg	22,000 mg/kg	G3 Center @ 5 ft
Nickel (Ni)	1,600 mg/kg	5.3 mg/kg	6,700 mg/kg	C2 Center @ 10 ft

EXHIBIT G

SCOPE OF WORK

The following Tasks shall be completed as part of this Agreement:

TASK 1: Submittal of Demolition, Grading and Soil Management Plan (SMP):

Within 60 days of the Effective Date of this Agreement, Settling respondent shall submit to DTSC a Soil Management Plan (SMP) as required by Paragraph 4.02, subdivision (a) of the Land Use Covenant (LUC) recorded on October 20, 2011 to restrict the use of the Property. The SMP is subject to review and approval by DTSC. DTSC will notify the Settling Respondent in writing of DTSC's approval or disapproval. The SMP shall be reviewed and approved by DTSC prior to issuance of any demolition, grading, and/or construction permits. At a minimum the SMP shall include, but not be limited to, the following:

1) Description(s) of the techniques and methods to be used including any grading, backfilling, storing, handling, transporting, treating, and disposing of material on or off the site;

    a) A description of the construction equipment to be employed;
    b) The identity of any contractors, transporters and other persons conducting the soil management activities for the Site;
    c) A site specific hazardous waste transportation plan (if necessary);

2) Description(s) of specific mitigation measures designed to protect human health and the environment during the implementation of the SMP that include but are not limited to the following:

    a) General Worker Health and Safety Procedures
    b) Dust Control
    c) Stormwater and Erosion Control
    d) Collection of soil samples for areas of potential concern prior to any backfill;
    e) Soil Pile Management
    f) Procedures for Obtaining and Using Clean Fill in accordance with DTSC's Advisory on Clean Imported Fill Material (http://www.dtsc.ca.gov/Schools/upload/SMP_FS_Cleanfill-Schools.pdf)
    g) Soil Disposal at a California-Licensed disposal facility
    h) Discovery of Affected Soil and Debris During Implementation of the SMP
    i) Prohibited Uses/Activities
    j) Site access

3) A Sampling and Analysis Plan (SAP) describing the procedures for collecting, transporting, and analyzing soil samples (see Item 2d) pursuant to Health and Safety Code section 25198;

4) A health and safety plan (HASP) (See Task 2);

5) Notification procedures prior to commencing any work at the Site; and

6) A schedule for implementing the work described in the SMP.

TASK 2: Health and Safety Plan

The Settling Respondent will submit a Site HASP in accordance with California Code of Regulations, Title 8, section 5192 and DTSC guidance. The HASP shall be reviewed and approved by a Certified Industrial Hygienist. This plan should include, at a minimum the following elements:

1) Site Background/History/Workplan;
2) Key Personnel and Responsibilities
3) Job Hazard Analysis/Summary;
4) Employee Training;
5) Personal Protection;
6) Medical Surveillance;
7) Air Surveillance;
8) Site Control;
9) Decontamination;
10) Contingency Planning;
11) Confined Space Operations;
12) Spill Containment;
13) Sanitation;
14) Illumination; and
15) Other applicable requirements based on the work to be performed.

DTSC's *Interim Draft Site Specific Health and Safety Plan Guidance Document for Site Assessment/Investigation, Site Mitigation Projects, Hazardous Waste Site Work Closure, Post Closure, and Operation and Maintenance Activities (DTSC, December 2000)* can be used as a reference tool. The Site Health and Safety Plan should cover all measures, including contingency plans, which will be taken during field activities to protect the health and safety of the workers at the Site and the general public from exposure to hazardous waste, substances or materials. The Health and Safety Plan should describe the specific personnel, procedures and equipment to be utilized.

TASK 3: California Environmental Quality Act (CEQA)

DTSC will comply with CEQA for all activities required by this Agreement that are projects subject to CEQA. Upon DTSC request, the Settling Respondent shall provide DTSC with any information that DTSC deems necessary to facilitate compliance with CEQA.

TASK 4: Public Participation (if Needed)

4.1 The Settling Respondent shall conduct appropriate public participation activities given the nature of the community surrounding the Site and the level of community interest. The Settling Respondent shall work cooperatively with DTSC to ensure that the affected and interested public and community are involved in DTSC's decision-making process. Any such public participation activities shall be conducted in accordance with Health and Safety Code sections 25356.1(e) and 25358.7 the DTSC Public Participation Policy and Procedures Manual, and with DTSC's review and approval.

4.2 A scoping meeting may be held to determine the appropriate activities that will be conducted to address public participation.

4.3 The settling Respondent shall prepare a community profile to examine the level of the community's knowledge of the Site; the types of community concerns; the proximity of the Site to homes and/or schools, day care facilities, churches, etc.; the current and proposed use of the Site; media interest; and involvement of community groups and elected officials.

4.4 The Settling Respondent shall develop and submit fact sheets to DTSC for review and approval when specifically requested by DTSC. The Settling Respondent shall be responsible for printing and distribution of fact sheets upon DTSC approval using the approved community mailing list.

TASK 5: Implementation of the SMP

Within 30 days of DTSC's approval of the SMP, the Settling Respondent shall implement the SMP, as approved.

TASK 6: Changes During Implementation of the SMP

During implementation of the SMP, DTSC may specify such additions, modifications and revisions to the SMP as deemed necessary to protect human health and safety or the environment or to implement the SMP.

TASK 7: Completion Report

Within thirty (30) days of completion of all field activities required by the SMP, the Settling Respondent shall prepare and submit a Completion Report for DTSC's review and approval. This report shall include, but is not limited to, a site background, description of all field work performed; photos, tables, and figures; laboratory analysis results for clean fill used at the Site; and any conclusions and recommendations.

TASK 8: Land Use Covenant

The Parties agree that deed restrictions or land use restrictions pursuant to California Code of Regulations, title 22, section 67391.1 will still be necessary to ensure full protection of the environment and human health. DTSC may require that the deed restriction be revised. An annual inspection of the site condition should be conducted, and an annual inspection report should be prepared for approval by DTSC.

TASK 9: Five-Year Review

Settling Respondent shall review and reevaluate the action taken pursuant to the SMP after a period of five years from the completion of construction and startup, and every five years thereafter. The review and reevaluation shall be conducted to determine if human health and the environment are being protected by the remedial action. Pursuant to Section 121(c) of CERCLA (42 U.S.C. 9601, et seq.), as amended by the Superfund Amendments and Reauthorization Act (SARA) of 1986, the Settling Respondent(s) shall submit a remedial action review workplan within 30 calendar days before the end of the time period approved by DTSC to review and reevaluate the action taken pursuant to the SMP. Within sixty (60) days of DTSC's approval of the workplan, the Settling Respondent will implement the workplan and shall submit a comprehensive report of the results of the remedial action review. The report shall describe the results of all sample analyses, tests, and other data generated or received by the Settling Respondent.

EXHIBIT H

SCHEDULE OF WORK

TASK	DELIVERABLES	SCHEDULE
1 – Submittal of Demolition, Grading, and Soil Management Plan (SMP)	Submit a Soil Management Plan (SMP) per Task 1 to DTSC for review and approval	Within 60 days of the Effective Date of this Agreement
2 – Health and Safety Plan	Submit a site specific Health and Safety Plan	Within 60 days of the Effective Date of this Agreement
3- CEQA (if Needed)	Provide DTSC with CEQA related information	Within 45 days of the approval of the draft SMP
4- Public Notice (if Needed)	Submit a draft Public Notice for DTSC's review and approval	Within 30 days of draft CEQA approval
5 – Implementation of the SMP	Receipt of written notice of approval from DTSC	Within 30 days of DTSC's approval of the SMP or the end of Public Notice period (if necessary)
6- Changes During Implementation of the SMP	To be determined by DTSC	During implementation phase
7 - Completion Report	Submit a Completion Report to DTSC for review and approval	Within 30 days of completion of all field activities required by the SMP
8- Land Use Covenant (LUC) revision, if necessary	a- Record revised LUC with the Lost Angeles County Recorder and provide notice of such recording to DTSC b- Submit an annual inspection report for approval by DTSC	Within 30 days of receiving a revised LUC from DTSC. By October 15 of each year
9- – Five-Year Review	a- Submit a remedial action review workplan b- Implement a DTSC-approved remedial action review workplan	Within 30 calendar days before the end of the time period approved by DTSC to review and reevaluate the action taken pursuant to the SMP Within 60 days of DTSC's approval of the workplan

EXHIBIT I

COST ESTIMATE

Department of Toxic Substance Control

COST ESTIMATE WORKSHEET (FY 15/16)
Date: October 12, 2015
Project Name: Nevin Park Site PPA
(a.k.a. Former RENU Plating Company, Los Angeles, CA)
Site Code: 301631

Title	Project Manager	Supervisor	Toxicology	Geology	HQ CEQA	Public Participation	Industrial Hygienist	Legal	Clerical
Classification	Hazardous Substances Engineer	Sr. Environ. Scientist	Staff Toxicologist	Sr. Engr. Geologist	Associate Environ. Planner	Public Participation Specialist	Sr. Industrial Hygienist	Staff Counsel III	OT (T)
TASK: Agreement Prep./Negotiation	24	4						40	2
Project Management Meetings and Communication	12	2	2	2					2
Review and comment on Demolition, Grading, and Soil Management Plan, provide general project oversight	12	2	8	8			4		
Oversight of Field Activities	8			8			4		
Review of Completion Report	12	2	16	12					2
Deed Restriction (LUC)	16	2						8	
CEQA document preparation (if needed)	24	2			40				8
Public Notice (if necessary)	8	2				16			2
Initial Annual LUC Inspection[5]	10								
Total No. Hours/Class	126	16	26	30	40	16	8	48	16
Hourly Rate [1] / Class	$194	$215	$179	$228	$132	$125	$227	$224	$76
Cost/Class	$24,444	$3,440	$4,654	$6,840	$5,280	$2,000	$1,816	$10,752	$1,216
Contingency (10%)	$6,044								
Grand Total Cost[6]	**$66,486**								

Notes:

1. Hourly rates are based on the DTSC FY 2015/2016 rate schedule.

2. Cost estimates are based upon one (1) revision for 'all' documents. Costs for documents requiring more than one (1) review/revision will be in addition to the estimate provided. The City of Los Angeles will receive annual cost estimate letters explaining each year's costs.

3. Project management includes: coordination for document review, preparing cost estimate and correspondence letters, travel, and other technical and administrative tasks.

4. Estimates include DTSC staff oversight for scraping off of the top two (2) feet of soil from the Site and replacing it with clean 'import' soil in order that the Site, Land Use, be suitable as a Park.

5. Land Use Covenant (LUC): Annual LUC inspections are conducted by DTSC to determine compliance with the LUC. The initial LUC inspection and preparation of an annual inspection report normally take longer than the consequent inspections. Annual LUC inspections cost approximately $2,500 per year. The $2,500 includes DTSC oversight/site visit, preparation of the annual inspection report, review of the annual City's submitted report (per section 4.05 of the LUC), and the cost of monitoring the site by Terradex. The City will receive annual cost estimate letters thereafter explaining each year's costs.

APPENDIX II

Health and Safety Plan (HASP)

HEALTH AND SAFETY PLAN

EXCAVATION AND REMOVAL OF SURFACE SOIL

Nevin Park Site (Former Renu Plating Facility)
1527 & 1531 East 32nd Street,
Los Angeles, California 90011

Contract No. 3638
City of Los Angeles Department of Recreation and Parks
221 N. Figueroa Street, Suite 400
Los Angeles, CA 90012

FOR

CALIFORNIA ENVIRONMENTAL
30423 Canwood Street, Suite 208
Agoura Hills, California 91301

Attention: Mr. Charles Buckley

PREPARED BY

Michael R. Tiffany, CIH No. 5056
Certified Industrial Hygienist

ACG Job No. E1812-1291 February 3, 2021

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ATTACHMENTS

INTRODUCTION

The purpose of this Health and Safety Plan (HSP) is to provide site-specific health and safety requirements for soil removal work to be conducted by the contractor at the subject property. This HSP applies to employees of the remediation contractor and their subcontractors (collectively, "contractors"). This Health and Safety Plan is a site-specific addendum to the contractors' corporate Injury and Illness Prevention Programs (IIPPs), which shall be in effect for this project. This HSP specifically addresses health and safety risks associated with the hazardous waste residues known or suspected to occur at the site and does not address risks of general excavation and construction work. Those risks shall be addressed in the contractors' own health and safety programs.

The site was formerly occupied by a plating shop. Soil at the site was contaminated by metals and cyanide from the plating operation. The plating shop has been demolished and a remedial action removed areas of identified soil contamination. The work covered by this HASP consists of the removal of 2 feet of surface soil. The soil to be removed is clean fill placed following site remediation, but there is a potential for encountering soil metal-impacted soil. The soil removal is being undertaken to bring the site to desired grade for development. The Soil Management Plan and previous site assessments contain information on the location and concentration of residual contaminants in soil beneath the clean fill.

Preparation of this Health and Safety Plan is not intended to relieve any contractor, their representatives or any other professionals from their duties and responsibilities with respect to overall site safety for the project. All contractors are responsible for observing all additional health and safety requirements as mandated by Cal/OSHA, the Los Angeles County Fire Department, the South Coast Air Quality Management District, and all other pertinent health and safety rules governing work activities to be conducted at a construction site.

DESCRIPTION OF WORK

The work covered by this HSP involves the removal of 2 feet of potentially metals-impacted soil across the 0.25-acre site. Soil removal includes the excavation, stockpiling, sampling, and loading of soil. Excavated soil will be temporarily stockpiled on plastic for verification sampling. Soil to be exported will be loaded into trucks and transported to offsite disposal facilities.

Plastic sheeting, water spray, and/or vapor suppression compounds will be used as necessary to reduce fugitive dust emissions.

The objective of this Health and Safety Plan is to provide for proper identification, safe handling and mitigation of contaminated soil that may be encountered during excavation work at the site. To achieve this objective, the following must be accomplished.

- Monitor the working face, excavation, stockpile, and loading area for visible dust emissions, toxic concentrations of dust, explosive or toxic gases, and any changes in materials or conditions.
- Protect workers from hazards that may be encountered during the project.
- Provide for proper identification of contaminated soils.
- Provide for proper handling of contaminated soils.

A schedule of implementation has not yet been determined by the City of Los Angeles Department of Recreation and Parks. However, the work will be planned for the summer break, when school is not in session. Work hours will be 7 AM to 4 PM on weekdays. No weekend work is planned.

PHYSICAL HAZARDS

The excavation activities proposed at the subject property may present physical hazards including heavy equipment operations, open excavations, vehicular traffic, and heat stress. These hazards are common to construction work sites and shall be covered in the contractors' IIPPs.

The following precautions will be observed to protect workers from physical hazards:

- Hard hats and steel-toed boots will be worn at all times.
- Safety glasses will be worn when using impact tools, cutting tools, or grinders.
- Work gloves will be worn when handling equipment or tools.
- High visibility safety vests will be worn by workers on foot in the presence of operating equipment or vehicle traffic.
- Hearing protective devices will be worn in accordance with the contractor's hearing conservation program.
- Equipment will be operated only by trained operators.
- Workers will not enter excavations unless they are sloped and/or shored in accordance with Cal/OSHA regulations.

Excessive exposure to a hot work environment can bring about a variety of heat-induced disorders, including heat stroke, heat exhaustion, cramps, and fainting. Preventative measures in effect for this project include:

- Rest periods in shaded or air-conditioned areas when necessary for the workers to self-limit heat exposure.
- Drinking water in adequate quantity will be provided outside the exclusion zone.
- Site workers will be trained in heat stress recognition and prevention.

Heat stress is unlikely with acclimatized workers in Level D at temperatures below 90 °F. Site workers receive heat stress training as part of HAZWOPER training. If ambient temperatures exceed 90 °F or if Level C PPE is donned then additional heat stress precautions will be implemented.

HAZARD EVALUATION - HAZARDOUS CHEMICALS

Previous investigations conducted at this site have established the presence of metals and cyanide in soil. Previous remedial actions have removed known areas of contaminated soil. **TABLE 1** presents the maximum contaminant levels in site soils and the screening level as compared to the Cal/OSHA Permissible Exposure Limit (PEL).

The 2004 Tetra Tech report indicates that the primary metal contaminants in soil at the subject property were cadmium, copper, lead, nickel, and zinc. The metals were historically identified at the site with maximum concentrations of 2,400 mg/kg, 3,000 mg/kg, 320 mg/kg, 3,800 mg/kg, and 760 mg/kg, respectively. The 2010 removal action conducted by EERG targeted cadmium, copper, and nickel with remedial action objectives (RAOs) set at 70 mg/kg, 3,100 mg/kg, and 1,600 mg/kg, respectively. The EERG report indicates that some areas with cadmium and copper impacts exceeding RAOs were left in place. Based on the analytical data obtained by EERG, it appears that cadmium up to 780 mg/kg and copper up to 22,000 mg/kg may be encountered during upcoming excavation activities.

TABLE 1
HAZARD EVALUATION
Chemicals of Concern

Compound	Cal-OSHA PEL mg/m^3	Maximum soil concentration mg/Kg (ppm)	Screening Ratio
Cadmium	0.005	780	1.6
Nickel	0.05	3800	0.76
Copper	1	22,000	0.22
Lead	0.05	320	0.064
Zinc	5	760	0.0015
Cyanide	5 (4.7 ppmv)	60	0.0001

Screening ratio = (soil concentration (mg/Kg) x 10 mg/m^3) ÷ PEL ÷ 1E6 (mg/Kg)

The screening ratio used to evaluate the hazard of metals in airborne dust is the ratio of airborne exposure to the PEL at a total airborne dust loading of 10 mg/m^3, the PEL for nuisance dust. At the highest cadmium soil concentration expected to remain at the site (780 mg/Kg), airborne exposure to cadmium may exceed the PEL at 10 mg/m^3 total dust. An airborne exposure of 10 mg/m^3 corresponds to visible dust emissions reaching the breathing zone. Keeping the airborne total dust concentration below 6 mg/m^3 will keep cadmium exposures below the PEL in the event that the average soil concentration of cadmium reaches 780 mg/Kg. Although the probability of encountering hazardous airborne concentrations of toxic or irritating chemicals at this site is believed to be low, provision is made in this plan for air monitoring to detect such hazards. Appropriate responses in the event that hazardous concentrations are encountered are given below.

Under SCAQMD Rule 1466, dust suppression will be implemented to keep PM10 dust emissions at the property line at less than 0.025 mg/m^3 over ambient. This will keep breathing zone exposures well below PELs.

There is a slight hazard of ingestion exposure. Compliance with the **PERSONAL HEALTH AND HYGIENE** section of this plan will protect against accidental ingestion of contaminated soil.

LEVELS OF PROTECTION

Level D protection is recommended for all work, subject to the employer's exposure assessment. The protection level will be upgraded if hazardous concentrations of chemicals are encountered in the operator breathing zone. If contaminated soil is exposed, Level C protective clothing is recommended for workers in direct contact with contaminated soil.

Four levels of protection are described as follows:

Level B: A NIOSH approved portable pressure demand self-contained breathing apparatus. Appropriate protective clothing: Chemical splash resistant suit (Saranex-coated Tyvek coveralls) with neoprene gloves and steel-toed neoprene boots. Protective eyewear and hearing protectors where appropriate.

Level C: A NIOSH approved half-face air-purifying respirator with dual P-100 filter cartridges. Appropriate protective clothing: Tyvek coveralls with neoprene or nitrile gloves and steel-toed neoprene boots. Protective eyewear and hearing protectors where appropriate.

Level C (modified): Respiratory protection as for Level C. Appropriate protective clothing: As for Level D. Protective eyewear and hearing protectors where appropriate.

Level D: Work uniform, steel-toed work boots, hard hat, and work gloves. Protective eyewear and hearing protectors where appropriate.

In addition to the protective clothing and equipment described above, all site workers shall wear face coverings in accordance with the COVID-19 Procedures section.

COMMUNITY PROTECTION

The subject site is bounded on three sides (north, east, and west) by an elementary school campus, and on the south side by East 32nd Street with single-family residences beyond. Exposure risks to potential school and residential receptors will be managed during excavation and hauling by emissions controls (dust suppression) and perimeter air monitoring in accordance with SCAQMD Rule 1466 and by track-out prevention and other protocols in accordance with the storm water pollution prevention plan (SWPPP).

The soil management plan calls for fencing with windscreens and continuous direct-reading real-time ambient monitoring of PM10 concentrations as specified by South Coast Air Quality Management District (SCAQMD) Rule 1466.

AIR MONITORING

PERSONAL EXPOSURE MONITORING

The contractors are responsible for assessing airborne contaminant exposures to their workers in compliance with 8 CCR 5155(e) and 5144(d)(1)(C). Exposure assessments shall be conducted by or under the supervision of a Certified Industrial Hygienist.

Based on the maximum expected cadmium concentration of soils at the site (780 mg/Kg), the action level for cadmium (0.005 mg/m^3) will not be exceeded if the total dust level in the breathing zone does not exceed 6 mg/m^3. Other contaminants including cyanide are not reasonably expected to reach PELs.

Visual observation will be used to monitor the work area for visible emissions of dust. If visible emissions are present, water spray or mist shall be used for dust suppression. If plain water is not effective at controlling visible emissions, the water shall be amended with a wetting agent. If visible dust emissions reach the worker breathing zone, work shall stop until emissions are controlled. A real-time aerosol monitor will be used to measure total dust concentrations in the worker breathing zone in accordance with **TABLE 2.**

Real-time monitoring of hydrogen cyanide gas concentrations will be conducted for worker and community health and safety. Monitoring will be conducted continuously during excavating and/or loading, using a calibrated gas monitoring instrument equipped with a compound-specific sensor for hydrogen cyanide. The instrument will be placed on the worker closest to the contaminant source.

If air sampling for worker exposure is required, air samples will be collected in the worker's breathing zone using battery-powered personal sampling pumps with 37-mm cassettes containing 0.8-µm mixed-cellulose-ester (MCE) filters. Samples will be collected on workers representing the highest anticipated exposures. Samples will be submitted to an AIHA/IHLAP-accredited laboratory for analysis of cadmium, copper and nickel using inductively-coupled mass spectrometry (ICP). Sampling and analysis will be conducted in accordance with NIOSH Method 7300 or 7303.

Action levels for air monitoring are shown in **TABLE 2** below.

TABLE 2
AIR MONITORING
Action Levels and Action to be Taken

Device	Reading†	Location	Time Period	Action*
Direct Reading Instrument	< 0.5 ppm cyanide	OBZ	--	Continue monitoring. Level D.
	> 0.5 ppm cyanide	OBZ	> 1 minute	Implement vapor suppression. Level D.
	> 4.7 ppm cyanide	OBZ	> 1 minute	Upgrade to Level B** if engineering controls do not control exposures.
Dust Monitoring	No visible emissions	anywhere	--	Continue monitoring. Level D.
	Visible emissions	anywhere	> 1 minute	Implement dust suppression. Level D.
	Visible emissions	OBZ	> 1 minute	Monitor OBZ total dust with aerosol monitor.
	< 1 mg/m^3 total dust	OBZ	-	Continue monitoring. Level D.
	> 1 mg/m^3 total dust	OBZ	>15 minutes	Upgrade to Level C (modified)*. Collect full-shift air samples for metals.
Laboratory Analysis	≥ 0.5 x PEL for metals	OBZ	full shift	Upgrade to Level C (modified).*

OBZ = Operator Breathing Zone
* Upgrade/downgrade in PPE may be made based on the results of air sampling after consulting with the CIH.
** Upgrade to Level B if necessary to continue, or shut down operation.

PERIMETER MONITORING

Upwind and downwind perimeter air monitoring will be performed during construction activities to ensure that the public will not be exposed to airborne soil contaminated with heavy metals above regulatory limits.

This project is subject to SCAQMD Rule 1466, *Control Of Particulate Emissions From Soils With Toxic Air Contaminants*. A Dust Control Supervisor trained under SCAQMD Rule 403 will be on site during excavation and loading. Air monitoring and dust suppression will be implemented as follows:

- Notify SCAQMD in accordance with Rule 1466.
- Monitor wind speed and direction with an onsite weather station.
- Continuously monitor airborne particulate concentrations at the perimeter with datalogging instruments.
- Continuously monitor visible emissions at the working face.
- Compare data with action levels to ensure fugitive dust associated with the remediation remains below the action levels. Should an action level be exceeded, dust suppression techniques will be implemented.
- Record observations and continuous air monitoring data every 10 minutes or less (SCAQMD Rule 1466 requirement is every 15 minutes). Air monitoring data is automatically datalogged every five minutes.

INSTRUMENTATION

Instrumentation for SCAQMD Rule 1466 air monitoring will consist of the following:

- Four Aeroqual Dust Sentry PM10 aerosol monitors or equivalent SCAQMD-approved monitoring equipment, one located on each side of the site.
- Environmental enclosures.
- Auto-zero attachments.
- Omnidirectional heated inlets.
- Dataloggers and cellular modems.
- A datalogging weather station.
- The aerosol monitors will be identical in in make and model; settings; calibration; configuration; and calibration, correction, and correlation factors.

AIR MONITORING ACTION LEVEL

In accordance with SCAQMD Rule 1466, the aerosol monitors will datalog PM10 concentrations every 5 minutes as 15-minute rolling averages. The dust control supervisor will calculate the 2-hour rolling average at the top of every hour and calculate the difference (Δ) between the upwind (ambient) monitor and the higher of the downwind monitors. The Δ value is compared to the action level in **Table 3** below.

TABLE 3
PERIMETER AIR MONITORING ACTION LEVELS FOR DUST

Parameter	Location	Action Level	Action
Visible Dust	Working face	Visible dust plume more than 20 feet from working face.	Increase dust suppression.
PM10	Perimeter	25 µg/m^3 Δ over upwind (2-hour average)	Increase emissions controls or partial curtailment of operations, reassess dust suppression efforts. Stop work if PM10 remains above action level.
Wind Speed	Site	15 mph (15-minute average) 25 mph (instantaneous)	Stop earth-moving activities, cover stockpiles.

Perimeter air samples for metals shall be collected and analyzed in accordance with NIOSH Method 7303. The samples shall be analyzed for cadmium, nickel, and copper. Samples will be collected by drawing air through 37-mm diameter cassettes with 0.8-µm mixed-cellulose-ester membrane filters using hi-volume sampling pumps. The sample cassettes will be placed above the top of the fence at the upwind and downwind perimeter of the work area. The samples will be analyzed for cadmium, copper, and nickel using inductively-coupled plasma mass spectrometry (ICP-MS) by an AIHA-accredited laboratory in accordance with NIOSH Method 7303. With either method, laboratory reporting limits must meet the levels in Table 4.

If hydrogen cyanide is detected at or above 1 ppmv in the worker's breathing zone, perimeter monitoring for cyanide will be conducted using a portable data logging air quality monitoring instrument. If lower detection limits are required, perimeter air samples will be collected using a midget impinger and analyzed for cyanide using NIOSH Method 7904.

TABLE 4
PERIMETER AIR MONITORING SCREENING LEVELS FOR TOXICS
Values in µg/m^3

Analyte	24-hr DTSC-SL*	8-hr Screening Level	Detection Limit**
Cadmium	0.01	0.03	0.003
Copper	NE	NE	0.06
Nickel	0.015	0.045	0.03
Cyanide	0.83†	2.5	1060 (instrument) / 14 (lab)

* DTSC-SL Screening Level for Residential Air, HHRA Note 3, June 2020, DTSC-recommended Screening Levels for Ambient Air Analytes, Table 3, June 2020

† EPA Regional Screening Level (RSL) Resident Ambient Air Table, May 2020

** Laboratory Detection Limit for NIOSH Method 7303, 4,800-L air sample, ICP/MS analysis.

SAFETY MANAGEMENT

The contractors' Site Safety Officer (SSO) and Field Site Safety Officer (FSSO) will ensure that all contractor personnel comply with all applicable regulations and requirements of this plan. The SSO will supervise the FSSO and coordinate and cooperate with the contractors' superintendents, foremen, subcontractors, employees, the owner's representative, authorized visitors, and agency representatives.

1. Personnel shall be physically able (and mentally willing) to comply with safety requirements.
2. A copy of this health & safety plan shall be kept at the job site and made available to each individual who will work at the site.
3. All contractors and sub-contractors working at the site should have and comply with the following:
    - A corporate Injury & Illness Prevention Plan.
    - A site specific Health and Safety plan.
4. These plans should include and/or address as a separate plan, the following:
    - A written Respiratory Protection program
    - A worker Hazard Communication program
    - A Medical Exposure Monitoring Program
    - A Hearing Conservation Program
5. A tail-gate meeting shall be held to review the safety program at the start of work and periodically as needed.
6. Site workers and visitors shall sign an acknowledgement sheet that confirms that they have read and understand this HSP.
6. Unsafe acts shall be stopped when discovered.
7. Required safety equipment shall be onsite and shall be checked to verify completeness and function prior to being put into service.
8. Any change in site conditions, such as the discovery of previously undefined areas of contamination, will be reviewed by the SSO and this HSP will be amended if necessary.

EXCLUSION ZONE

The exclusion zone shall be as determined by the FSSO and SSO during excavation activities. The FSSO will be responsible for ensuring that unauthorized and unnecessary personnel are excluded from the work zone. Personnel not actively involved in site work activities (other than inspectors from concerned regulatory agencies) shall not be allowed within the exclusion zone. When necessary, work zones will be enclosed, barricaded or otherwise marked off and posted by the FSSO or contractor foreman to prevent the ingress of unauthorized persons and to warn others as to the potential hazards present and to stay clear.

EMERGENCY PROCEDURES

COMMUNICATION PROCEDURES

A site phone will be available to all workers in the event of an emergency. All emergency services can be obtained by calling 911.

EMERGENCY EXITS

All site entrances will be left open to provide for emergency egress during the course of the work but shall be barricaded or marked and inspected periodically to discourage the entrance of unauthorized persons.

EMERGENCY EQUIPMENT

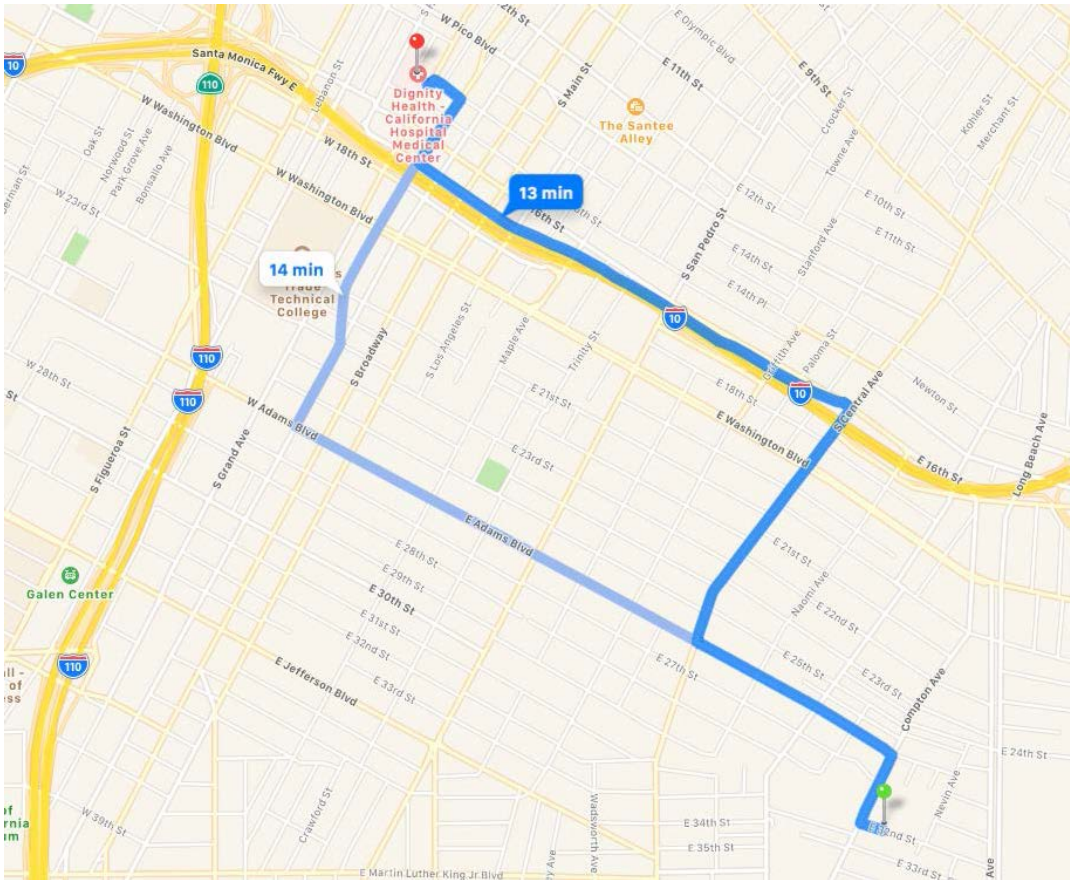
The following emergency equipment will be available onsite:

- A first aid kit.
- A fire extinguisher.

EMERGENCY SERVICES

The address, phone number, and name of the local hospital and medical emergency room will be posted on site. Hospital location and driving directions are shown below. All emergency services can be obtained by dialing 911.

California Hospital Medical Center
1401 S. Grand Avenue
Los Angeles, CA 90015
Phone: 213-748-2411



1. Head **EAST** on **32nd STREET.**
2. After 300 feet, turn **RIGHT** on **COMPTON AVE.**
3. After 900 feet, turn **LEFT** onto **ADAMS BLVD.**
4. After 0.5 miles, **TURN RIGHT** onto **CENTRAL AVE.**
5. After 0.6 miles, turn **LEFT** onto **16th STREET.**
6. After 100 feet, turn **MERGE LEFT** onto **I-10 WEST SANTA MONICA FREEWAY.**
7. After 0.6 miles, turn **TAKE EXIT 14A** onto **LOS ANGELES STREET** towards **CONVENTION CENTER.**
8. After 0.5 miles, turn **RIGHT** onto **OLIVE STREET.**
9. After 0.2 miles, turn **LEFT** onto **14th STREET.**
10. After 400 feet, turn **LEFT** onto **GRAND AVE.**
11. After 100 feet, the destination is on the **RIGHT.**

DECONTAMINATION

Vehicle and equipment decontamination procedures are addressed in the site-specific Soil Management Plan. Personnel decontamination procedures are described below.

The personnel decontamination area will be set up at the exit from the exclusion zone. The decontamination area will be equipped with the following:

- Plastic sheeting to contain fluids and provide a clean surface.
- Buckets with detergent solution and clean water.
- Brushes, sponges, and towels.
- Drinking water.

Level D decontamination procedures:

1. Any disposable PPE, such as nitrile gloves or Tyvek coveralls, shall be removed in the decontamination area and placed into the designated waste containers.
2. All personnel will wash face and hands with detergent and water when prior to eating, drinking, using the restroom, or leaving the site.
3. Equipment or tools will be decontaminated by wet wiping with detergent and water.

SAFETY/TRAINING REQUIREMENTS

Personnel engaging in onsite activities will be properly trained for those activities. All personnel who use respiratory protective equipment will be properly trained in its use and properly fitted to their assigned respirators. All workers required to wear a respirator will be medically cleared. If a worker is or may be exposed above the PEL, they shall be enrolled in a medical surveillance program within 30 days.

All site workers will be trained for hazardous waste operations in accordance with 8CCR §5192, including up-to-date refresher courses. Dust control supervisors will have completed the SCAQMD South Coast Air Basin Rule 403 Fugitive Dust Control Class.

PERSONAL HEALTH AND HYGIENE

1. Personal safety and the safety of fellow workers require that all employees arrive at the job and remain mentally alert. No alcohol or drugs shall be permitted at any job site.
2. Parts of the body that come into contact with toxic or irritating chemicals should be washed immediately with detergent and water.
3. Any cut or abrasion shall be treated immediately. A qualified professional health practitioner shall be consulted if the safety manager deems it necessary.
4. Hands and face shall be washed prior to eating, drinking, using the restroom, or smoking, and at the end of the work shift.
5. No smoking is allowed in the exclusion zone. Smoking will be allowed only in an area designated by the contractor's superintendent.

COVID-19 PROCEDURES

All parties present on the site must comply with all state, county, and city regulatory COVID-19 safety protocols in effect at the time of the work. All contractors on site shall be aware of the changing requirements with regard to COVID-19 and are required to follow the most stringent applicable health and safety guidelines. COVID-19 related guidance documents from Cal/OSHA (8 CCR 3205), County of Los Angeles, and Los Angeles Department of Building and Safety are attached in Appendix I.

Listed below are key workplace requirements for COVID-19 safety as specified by LA County Department of Public Works. This is not a complete list and compliance with these actions does not excuse any contractor from following all of the requirements listed above.

1. Practice social distancing by maintaining a minimum 6-foot distance from others.
2. Preclude gatherings of any size, and anytime two or more people must meet, ensure minimum 6-foot separation. If process requires/has no alternative, provide suitable personal protective equipment (PPE), limit interaction to the minimum time required to perform the given task, and comply to the maximum extent feasible.
3. Provide PPE such as gloves, goggles, face shields, face coverings, and face masks as appropriate for the activity being performed.
4. The contractor shall designate a site-specific COVID-19 Supervisor to enforce this guidance. The designated COVID-19 Supervisor shall be present on the construction site at all times during construction activities. The COVID-19 Supervisor may be an onsite worker who is designated to carry this role.
5. Identify "choke points" and "high-risk areas" where workers are forced to stand together, such as entrances, decon areas, and break areas, and control them so social distancing is maintained.
6. Minimize interactions when picking up or delivering equipment or materials to ensure minimum 6-foot separation.
7. Stagger the trades as necessary to reduce density and maintain minimum 6-foot separation social distancing.
8. Discourage workers from using other workers' phones, desks, offices, tools, and equipment. If necessary, clean and disinfect them before and after use.
9. Post signs in areas visible to all workers with the required hygienic practices, including: not touching face with unwashed hands or with gloves; washing hands often with soap and water for at least 20 seconds; use of hand sanitizer with alcohol (at least 60%) or quaternary ammonium; cleaning AND disinfecting frequently touched objects and surfaces such as equipment, keyboards, shared tools, doorknobs etc; covering the mouth and nose when coughing or sneezing, as well as other hygienic recommendations by the CDC.
10. Use cloth face coverings in accordance with the guidelines established by the Los Angeles County Public Health and CDC as follows:
    - County of Los Angeles Public Health – Guidance for Cloth Face Coverings - http://publichealth.lacounty.gov/media/coronavirus/GuidanceClothFaceCoverings.pdf
    - CDC's Surgeon General, Dr. Jerome Adams – How to Make Your Own Face Covering - https://youtu.be/tPx1yqvJgf4 CDC's Guidance for Use of Cloth Face Coverings to Help

Slow the Spread of COVID-19 - https://www.cdc.gov/coronavirus/2019-ncov/downloads/DIY-cloth-facecovering-instructions.pdf

11. Face coverings are to be worn at all times when indoors and when within 20 feet of others while outdoors.
12. Place wash stations or hand sanitizers in multiple locations to encourage hand hygiene.
13. Require anyone on the project to stay home if they are sick, except to get medical care.
14. Have employees inform their supervisor if they have a sick family member at home with COVID-19.
15. Maintain a daily attendance log of all workers and visitors

EQUIPMENT

Personal Safety Equipment

Workers shall have available personal protective safety equipment as follows:

1. Plastic hard hats meeting ANSI standards.
2. Steel-toed work boots.
3. Appropriate hearing protection in accordance with the contractor's hearing conservation program.
4. Safety glasses meeting ANSI standards.
5. High-visibility safety vest for work in areas of vehicular traffic.
6. Work gloves for handling heavy tools or equipment.
7. Approved face coverings.

Personnel And Environmental Monitoring Equipment

Air monitoring equipment is listed in the Air Monitoring section.

Facility Safety Equipment

The following safety equipment shall be continuously available at the job site in sufficient quantities:

1. Clean water, detergent, and paper towels.
2. First aid kit (10 unit).
3. Fire extinguisher.
4. Site phone.

ACKNOWLEDGEMENT

The undersigned site personnel and visitors acknowledge that they have read and understand the above Site-Specific Health & Safety Plan and are familiar with its provisions.

NAME	COMPANY	SIGNATURE

ATTACHMENTS

Novel Coronavirus (COVID-19) Los Angeles County DPH Guidance for Construction Sites

Los Angeles County DPWs Guidelines for Constructions Sites During COVID-19 Pandemic

Los Angeles DBS COVID-19 Safety Guidance for Construction Sites

Cal/OSHA Title 8 CCR 3205 – COVID 19 Prevention

Novel Coronavirus (COVID-19)

Los Angeles County Department of Public Health
Guidance for Construction Sites

Recent Updates:
11/3/20: Close contact updated to include an individual within 6 feet of an infectious person for a total of 15 minutes or more over a 24-hour period.

These guidelines have been developed in response to the need for work on construction projects that are permissible under the Health Officer's Orders to continue as safely as possible.

These guidelines are not all encompassing and may need to be tailored to individual construction sites and updated as the COVID-19 pandemic evolves. Contractors should have prepared a new or updated Site-Specific Health and Safety Plan to address COVID-19-related issues and are strongly urged to adopt and implement the following measures under that safety plan. Contractors should review the latest OSHA COVID-19 Workplace Safety Guidance document (https://www.osha.gov/Publications/OSHA3990.pdf) as a resource in preparation of their Site Specific Health and Safety Plan.

Key Recommendations

1. Ensure individuals maintain a distance of 6 feet apart unless specific work assignments require less distancing; in such situations, strategies should be implemented to allow for maximum distancing.
2. Do not have gatherings of any size, and any time two or more people must meet, ensure a minimum 6-foot separation.
3. Designate a Site Safety Representative (SSR) to monitor and implement all recommended safety practices regarding the COVID-19 virus with all construction workers (workers). Labor supervisors must have the authority, through consultation with the SSR, to halt all activities that do not adhere to the COVID-19 safety practices.
4. An SSR should be present on the construction site at all times during construction activities.
5. For work sites where multiple-contractors share the same workspace, inform all contractors about each site-specific COVID-19 Construction Field Safety Guideline. Where one contractor enters the space of another contractor, the most stringent guidelines will be followed.
6. Provide personal protective equipment such as gloves, goggles, face shields, and cloth face coverings as appropriate for the activity being performed.
7. Require that staff wear, at minimum, a cloth face covering whenever they around others, including other employees and/or the public.
8. Identify "choke points" and "high-risk areas" where workers are forced to stand together, such as hallways, hoists and elevators, break areas, and buses, and control them so physical (social) distancing is maintained.
9. During pick up or delivery of equipment or materials, ensure a minimum 6-foot separation among workers.
10. Stagger the trades to reduce density and maintain a minimum 6-foot separation for physical distancing unless specific work assignments require less distancing; in such situations, strategies should be implemented to allow for maximum distancing.

11. Modify work schedules to stagger work and provide alternating workdays to reduce the total number of employees on a job site at any given time.
12. Ensure that office staff has the ability to work from home.
13. Discourage workers from using other workers' phones, desks, offices, work tools and equipment. If they must be shared, require that they are cleaned and disinfected before and after use.
14. Place hand wash stations supplied with soap and disposable towels or hand sanitizers and trash cans in multiple locations to encourage hand hygiene.
15. Require anyone on the project to stay home if they are sick.
16. Employees that are sick should stay home at least 24 hours after recovery, which means their fever has resolved without the use of fever-reducing medications AND there is improvement in their symptoms (e.g., cough, shortness of breath), AND at least 10 days have passed since symptoms first appeared. If the employee did not have symptoms but tested positive they should stay home for at least 10 days from when the test was done.
17. Any close contacts to the ill worker should be identified and asked to remain at home in quarantine for 14 days since the last exposure. Close contacts include all individuals who were within 6 feet of the employee for a total of 15 minutes or more over a 24-hour period, starting 2 days before symptoms began until their isolation period ends. In addition, anyone who had contact with their body fluids and/or secretions (such as were coughed on/sneezed on, shared utensils or saliva or provided care to the ill employee without wearing protective equipment) should be in quarantine.
18. Have workers inform their supervisor if they have a sick family member at home with COVID-19 or have been in contact with someone outside of work with COVID-19. Workers who have been exposed should remain at home in quarantine for 14 days from their last contact with the ill individual.
19. Do not require a healthcare provider's note for workers who are sick with acute respiratory illness to validate their illness or to return to work.
20. Maintain a daily attendance log of all workers and visitors at the job site.
21. In the event that 3 or more cases are identified within the workplace within a span of 14 days the employer should report this cluster to the Department of Public Health at (888) 397-3993 or (213) 240-7821. If a cluster is identified at a worksite, the Department of Public Health will initiate a cluster response which includes providing infection control guidance and recommendations, technical support and site-specific control measures. A public health case manager will be assigned to the cluster investigation to help guide the facility response
22. Establish a daily screening protocol for arriving workers, to ensure that potentially infected workers do not enter the worksite.
23. Regularly clean and sanitize trailers, toilets, and other enclosed spaces such as elevators and lifts as well as high-touch surfaces on job sites and in offices—such as shared tools, machines, vehicles and other equipment, handrails, doorknobs, and portable toilets—frequently, as per CDC guidelines: https://www.cdc.gov/coronavirus/2019-ncov/community/organizations/cleaning-disinfection.html

24. Make disinfectants available to workers throughout the worksite and ensure supplies are frequently replenished.

Also, as part of the Site Specific Health and Safety Plan contractors should draft and implement a Code of Safe Practices that is posted in areas visible to all workers and that at a minimum require staff/labor to follow the personal prevention actions noted below:

Personal prevention actions include:

- Stay home when you are sick.
- Wash your hands often with soap and water for at least 20 seconds. If soap and water are not available, use alcohol-based hand sanitizer that contains at least 60% alcohol. Wash your hands before meals, after using the restroom and after coughing and sneezing.
- Cover your coughs and sneezes with a tissue, and then dispose of the tissue and clean your hands immediately. If you do not have a tissue, use your elbow (not your hands).
- Do not touch your mouth, eyes, nose with unwashed hands
- Avoid contact with people who are sick.
- Bring food and water bottles from home in order to avoid busy or congested food trucks. Do not share food or drinks.
- Drive to worksites or parking areas by yourself—no passengers or carpooling unless they are individuals who live in your home.
- Avoid sharing items such as phones or tools. If tools have to be shared be sure to wipe them down with a disinfectant wipe before and after sharing.
- Constantly observe your work distances in relation to other staff. Maintain the recommended minimum 6 feet separation from one another at all times unless specific work assignments require less distancing, and wear a face cloth covering when working with others
- Disinfect frequently touched objects and surfaces such as workstations, keyboards, telephones, handrails, machines, shared tools, elevator control buttons, and doorknobs.

Know where to get reliable information

Beware of scams, false news and hoaxes surrounding novel coronavirus. Visit Public Health's COVID-19 scams webpage (http://publichealth.lacounty.gov/hccp/covidscams/) for information and resources on how to avoid COVID-19 health care scams.

Accurate information, including announcements of new cases in LA County, will always be distributed by Public Health through press releases, social media, and our website. The website has more information on COVID-19 including FAQs, infographics and a guide to coping with stress, as well as tips on handwashing

- Los Angeles County Department of Public Health (LACDPH, County)
  - publichealth.lacounty.gov/media/Coronavirus/
  - Social media: @lapublichealth

Other reliable sources of information about novel coronavirus are:

- California Department of Public Health (CDPH, State)
  - https://www.cdph.ca.gov/Programs/CID/DCDC/Pages/Immunization/nCOV2019.aspx
- Centers for Disease Control and Prevention (CDC, National)
  - http://www.cdc.gov/coronavirus/novel-coronavirus-2019.html
- Los Angeles Department of Building and Safety (Call center - 311 or (213) 473-3231 – Calls will then be routed to LADBS' Call Center or use the MyLA311 Website at myla311.lacity.org/ or submit via the MyLA311 mobile app.)
- CAL OSHA Guidance for preparing workplaces: https://www.osha.gov/Publications/OSHA3990.pdf

If you have questions and would like to speak to someone call the Los Angeles County Information line 2-1-1 which is available 24 hours a day.

Public Works
LOS ANGELES COUNTY

Guidelines for Construction Sites During COVID-19 Pandemic

To effectively **maintain a safe work environment at all construction sites during the Coronavirus/COVID-19 pandemic**, Public Works is strongly recommending that all workers/employees adhere to the recent guidelines published by the CDC and Cal/OSHA. Industry employers also are highly encouraged to develop and **implement comprehensive COVID-19 exposure control plans to include proper social distancing, symptom checking, hygiene, and decontamination procedures**. We are committed to serving the public, ensuring safety and working together with you to ensure the continuation of essential construction projects in a safe manner while doing our utmost to curtail the transmission of COVID-19.

Please also refer to the Cal/OSHA Interim Guidelines for General Industry on 2019 Novel Coronavirus Disease (COVID-19):
https://www.dir.ca.gov/dosh/coronavirus/General-Industry.html

Following are **minimum recommended procedures to be practiced at all active construction sites**.

1. **Practice social distancing** by maintaining a minimum 6-foot distance from others.

2. **Preclude gatherings of any size, and anytime two or more people must meet, ensure minimum 6-foot separation**. If process requires/has no alternative, provide suitable personal protective equipment (PPE), limit interaction to the minimum time required to perform the given task, and comply to the maximum extent.

3. **Provide PPE** such as gloves, goggles, face shields, face coverings, and face masks as appropriate for the activity being performed.

4. The owner/contractor should **designate a site-specific COVID-19 Supervisor to enforce this guidance**. A designated COVID-19 Supervisor should be present on the construction site at all times during construction activities. The COVID-19 Supervisor can be an onsite worker who is designated to carry this role.

5. **Identify "choke points" and "high-risk areas"** where workers are forced to stand together, such as hallways, hoists and elevators, break areas, and buses, and **control them so social distancing is maintained**.

6. **Minimize interactions when picking up or delivering equipment or materials** to ensure minimum 6-foot separation.

7. **Stagger the trades as necessary to reduce density** and maintain minimum 6-foot separation social distancing.

8. **Discourage workers from using other workers' phones, desks, offices, tools, and equipment.** If necessary, clean and disinfect them before and after use.

9. **Post in areas visible to all workers the required hygienic practices,** including: not touching face with unwashed hands or with gloves; washing hands often with soap and water for at least 20 seconds; use of hand sanitizer with at least 60% alcohol; cleaning AND disinfecting frequently touched objects and surfaces such as workstations, keyboards, telephones, handrails, machines, shared tools, elevator control buttons, and doorknobs; and covering the mouth and nose when coughing or sneezing, as well as other hygienic recommendations by the CDC.

10. **Use cloth face coverings** in accordance with the guidelines established by the Los Angeles County Public Health and CDC as follows:

    County of Los Angeles Public Health – Guidance for Cloth Face Coverings - http://publichealth.lacounty.gov/media/coronavirus/GuidanceClothFaceCoverings.pdf

    CDC's Surgeon General, Dr. Jerome Adams – How to Make Your Own Face Covering - https://youtu.be/tPx1yqvJgf4

    CDC's Guidance for Use of Cloth Face Coverings to Help Slow the Spread of COVID-19 - https://www.cdc.gov/coronavirus/2019-ncov/downloads/DIY-cloth-face-covering-instructions.pdf

11. **Place wash stations or hand sanitizers in multiple locations** to encourage hand hygiene.

12. Require anyone on the project to **stay home if they are sick**, except to get medical care.

13. Have employees **inform their supervisor if they have a sick family member at home with COVID-19**.

14. **Maintain a daily attendance log** of all workers and visitors.

L.A. BUILDING & SAFETY ANNOUNCEMENT No. 5 March 31, 2020

LADBS Announcements are posted at http://www.ladbs.org/our-organization/messaging/news

TOPIC **COVID-19 SAFETY GUIDANCE FOR CONSTRUCTION SITES**

The following guidelines are based on Interim CDC's Guidance for Businesses and Employers to Plan and Respond to Coronavirus Disease 2019 (COVID-19), OSHA's Guidance on Preparing Workplaces for COVID-19, and other publications. Please check LADBS.org for the latest updates.

Construction industry employers shall develop a comprehensive COVID-19 exposure control plan, which includes control measures such as social distancing; symptom checking; hygiene; decontamination procedures, and training. An exposure control plan and the following practices must be followed to prevent any onsite worker from contracting COVID-19, as many people with COVID-19 are asymptomatic and can potentially spread disease. Failure to comply with this guidance shall be deemed as creating unsafe conditions and may result in withheld inspections or shutting down the construction site until corrected.

LADBS staff will verify compliance with these guidelines during regular scheduled inspections for projects under construction as well as during investigations associated with complaints that may be submitted to LADBS (Call center - 311 or (213) 473-3231 – Calls will then be routed to LADBS' Call Center. OR, use the MyLA311 Website at https://myla311.lacity.org/ or submit via the MyLA311 mobile app.)

1. Practice social distancing by maintaining a minimum 6-foot distance from others.
2. Preclude gatherings of any size, and anytime two or more people must meet, ensure minimum 6-foot separation.
3. Provide personal protective equipment (PPE) such as gloves, goggles, face shields and face masks as appropriate for the activity being performed.
4. The owner/contractor shall designate a site specific COVID-19 Supervisor to enforce this guidance. A designated COVID-19 Supervisor shall be present on the construction site at all times during construction activities. The COVID-19 Supervisor can be an on-site worker who is designated to carry this role.
5. Identify "choke points" and "high-risk areas" where workers are forced to stand together, such as hallways, hoists and elevators, break areas, and buses, and control them so social distancing is maintained.
6. Minimize interactions when picking up or delivering equipment or materials, ensure minimum 6-foot separation.
7. Stagger the trades as necessary to reduce density and maintain minimum 6-foot separation social distancing.
8. Discourage workers from using other workers' phones, desks, offices, work tools and equipment. If necessary, clean and disinfect them before and after use.
9. Post, in areas visible to all worker, required hygienic practices including not touching face with unwashed hands or with gloves; washing hands often with soap and water for at least 20 seconds; use of hand sanitizer with at least 60% alcohol, cleaning AND disinfecting frequently touched objects and surfaces such as workstations, keyboards, telephones, handrails, machines, shared tools, elevator control buttons, and doorknobs; covering the mouth and nose when coughing or sneezing as well as other hygienic recommendations by the CDC.
10. Place wash stations or hand sanitizers in multiple locations to encourage hand hygiene.
11. Require anyone on the project to stay home if they are sick, except to get medical care.
12. Have employees inform their supervisor if they have a sick family member at home with COVID-19.
13. Maintain a daily attendance log of all workers and visitors.

This information is provided free of charge by the Department of Industrial Relations from its web site at www.dir.ca.gov. These regulations are for the convenience of the user and no representation or warranty is made that the information is current or accurate. See full disclaimer at https://www.dir.ca.gov/od_pub/disclaimer.html.

§3205.1. Multiple COVID-19 Infections and COVID-19 Outbreaks.

(a) Scope.

(1) This section applies to a place of employment covered by section 3205 if it has been identified by a local health department as the location of a COVID-19 outbreak or when there are three or more COVID-19 cases in an exposed workplace within a 14-day period.

(2) This section shall apply until there are no new COVID-19 cases detected in a workplace for a 14-day period.

(b) COVID-19 testing.

(1) The employer shall provide COVID-19 testing to all employees at the exposed workplace except for employees who were not present during the period of an outbreak identified by a local health department or the relevant 14-day period(s) under subsection (a), as applicable. COVID-19 testing shall be provided at no cost to employees during employees' working hours.

(2) COVID-19 testing shall consist of the following:

(A) Immediately upon being covered by this section, all employees in the exposed workplace shall be tested and then tested again one week later. Negative COVID-19 test results of employees with COVID-19 exposure shall not impact the duration of any quarantine period required by, or orders issued by, the local health department.

(B) After the first two COVID-19 tests required by subsection (b)(2)(A), employers shall provide continuous COVID-19 testing of employees who remain at the workplace at least once per week, or more frequently if recommended by the local health department, until this section no longer applies pursuant to subsection (a)(2).

(C) Employers shall provide additional testing when deemed necessary by the Division through the Issuance of Order to Take Special Action, in accordance with title 8, section 332.3.

(c) Exclusion of COVID-19 cases. Employers shall ensure COVID-19 cases and employees who had COVID-19 exposure are excluded from the workplace in accordance with subsections 3205(c)(10) and (c)(11) and local health officer orders if applicable.

(d) Investigation of workplace COVID-19 illness. The employer shall immediately investigate and determine possible workplace related factors that contributed to the COVID-19 outbreak in accordance with subsection 3205(c)(3).

(e) COVID-19 Investigation, review and hazard correction. In addition to the requirements of subsection 3205(c)(2) and 3205(c)(4), the employer shall immediately perform a review of potentially relevant COVID-19 policies, procedures, and controls and implement changes as needed to prevent further spread of COVID-19. The investigation and review shall be documented and include:

(1) Investigation of new or unabated COVID-19 hazards including the employer's leave policies and practices and whether employees are discouraged from remaining home when sick; the employer's COVID-19 testing policies; insufficient outdoor air; insufficient air filtration; and lack of physical distancing.

(2) The review shall be updated every thirty days that the outbreak continues, in response to new information or to new or previously unrecognized COVID-19 hazards, or when otherwise necessary.

(3) The employer shall implement changes to reduce the transmission of COVID-19 based on the investigation and review required by subsections (e)(1) and (e)(2). The employer shall consider moving indoor tasks outdoors or having them performed remotely, increasing outdoor air supply when work is done indoors, improving air filtration, increasing physical distancing as much as possible, respiratory protection, and other applicable controls.

(f) Notifications to the local health department.

(1) The employer shall contact the local health department immediately but no longer than 48 hours after the employer knows, or with diligent inquiry would have known, of three or more COVID-19 cases for guidance on preventing the further spread of COVID-19 within the workplace.

(2) The employer shall provide to the local health department the total number of COVID-19 cases and for each COVID-19 case, the name, contact information, occupation, workplace location, business address, the hospitalization and/or fatality status, and North American Industry Classification System code of the workplace of the COVID-19 case, and any other information requested by the local health department. The employer shall continue to give notice to the local health department of any subsequent COVID-19 cases at the workplace.

(3) Effective January 1, 2021, the employer shall provide all information to the local health department required by Labor Code section 6409.6.

Note: Authority cited: Section 142.3, Labor Code. Reference: Sections 142.3 and 144.6, Labor Code.

HISTORY

1. New section filed 11-30-2020 as an emergency; operative 11-30-2020. Emergency expiration extended 60 days (Executive Order N-40-20) plus an additional 60 days (Executive Order N-71-20) (Register 2020, No. 49). A Certificate of Compliance must be transmitted to OAL by 10-1-2021 or emergency language will be repealed by operation of law on the following day.

Go Back to General Industry Safety Orders, Introduction