

APPROVED

JAN 04 2024

BOARD OF RECREATION AND PARK COMMISSIONERS

BOARD REPORT

NO. 24-004

DATE January 04, 2024

C.D. 1

BOARD OF RECREATION AND PARK COMMISSIONERS

SUBJECT: RIO DE LOS ANGELES STATE PARK FIELDS MAINTENANCE IMPROVEMENTS (PRJ21462) (PRJ21447) (W.O. #E1908950) PROJECT – APPROVAL OF FINAL PLANS AND CALL FOR BIDS – CATEGORICAL EXEMPTION FROM THE PROVISIONS OF THE CALIFORNIA ENVIRONMENTAL QUALITY ACT (CEQA) PURSUANT TO STATE CEQA GUIDELINES ARTICLE 19, SECTION 15301(c) [EXISTING HIGHWAYS AND STREETS, SIDEWALKS, GUTTERS, BICYCLE AND PEDESTRIAN TRAILS, AND SIMILAR FACILITIES], SECTION 15302 [REPLACEMENT OF EXISTING STRUCTURES AND FACILITIES WHERE THE NEW STRUCTURE WILL BE LOCATED ON THE SAME SITE AS THE STRUCTURE REPLACED AND HAVE SUBSTANTIALLY THE SAME PURPOSE] AND SECTION 15304(b) [NEW GARDENING OR LANDSCAPING, INCLUDING THE REPLACEMENT OF EXISTING CONVENTIONAL LANDSCAPING WITH WATER EFFICIENT OR FIRE RESISTANT LANDSCAPING] AND ARTICLE III, SECTION 1, CLASS 1(3), CLASS 2 AND CLASS 4(3) OF THE LOS ANGELES CEQA GUIDELINES

B. Aguirre _____ M. Rudnick _____
for C. Santo Domingo DF
B. Jones _____
B. Jackson _____ N. Williams _____

[Signature]
General Manager

Approved X With Corrections Disapproved _____ Withdrawn _____

RECOMMENDATIONS

- 1. Approve the final plans and specifications, substantially in the form on file with the Board of Recreation and Park Commissioners (Board) Office and as attached to this Report (Attachment 1), for the Rio De Los Angeles State Park Fields Maintenance Improvements (PRJ21462) (PRJ21447) (W.O. #E1908950) project (Project);
2. Approve the date to be advertised for receipt of bids as Monday, February 26, 2024 at 2:00 P.M. in the Board Office;
3. Approve the removal of one Western Sycamore tree located on the proposed site of the Project in Rio De Los Angeles State Park, and installation of replacement trees, as described in the Summary of this Report and in accordance with the RAP Tree Preservation Policy and Urban Forest Program, as may be amended;

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4. Determine that the Project is categorically exempt from the provisions of the California Environmental Quality Act (CEQA) pursuant to state CEQA Guidelines Article 19, Section 15301(c) [Existing highways and streets, sidewalks, gutters, bicycle and pedestrian trails, and similar facilities], Section 15302 [Replacement of existing structures and facilities where the new structure will be located on the same site as the structure replaced and have substantially the same purpose] and Section 15304(b) [New gardening or landscaping, including the replacement of existing conventional landscaping with water efficient or fire resistant landscaping] as well as Article III, Section 1, Class 1(3), Class 2 and Class 4(3) of the Los Angeles CEQA Guidelines and request that Bureau of Engineering staff file a Notice of Exemption (NOE) with the Los Angeles County Clerk; and,
5. Authorize RAP's Chief Accounting Employee or Designee to make technical corrections as necessary to carry out the intent of this Report.

SUMMARY

Submitted for the Board's approval are the final plans and specifications for the Rio De Los Angeles State Park Fields Maintenance Improvements (PRJ21462) (PRJ21447) (W.O. #E1908950) project (Project) located at 1900 West San Fernando Road, Los Angeles, 90039. The plans and specifications were prepared by the Department of Public Works, Bureau of Engineering (BOE), Architectural Division (Attachment No. 1).

Rio De Los Angeles State Park is located in the Greater Cypress Park Neighborhood Council and adjacent to Glassell Park Neighborhood Council in Council District No. 1. Rio De Los Angeles State Park is located on California Department of State Parks Land. The existing active recreation portions of the park were opened on April 21, 2007. The construction of the active recreation area project was managed and designed by the BOE, and those areas of the park are operated and maintained by RAP through a lease to the California Department of State Parks. California Department of State Parks operates and maintains the conservation area of the park.

PROJECT SCOPE

The Project encompasses improvements to three existing fields, restrooms, parking area and amenities at Rio De Los Angeles State Park in order to meet requests of the community, the latest RAP standards, Los Angeles Department of Building Safety (LADBS) Building Code, and the American with Disabilities Act (ADA) requirements.

The project scope provides improvements to the existing fields and amenities including:

1. Replacement of two (2) existing natural turf soccer fields at the same location & size with a slight dimensional change, with two (2) synthetic multipurpose fields
2. Renovate one (1) natural turf soccer field
3. Addition of LED sports field lighting for all three (3) fields, one (1) field has existing sports field lighting

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4. Demolition the existing restroom building and replace it with new prefab restroom building at the same location
5. Improvement of picnic areas and addition of prefab shade structures
6. New ADA walking pathways and access
7. Improved security lighting for the walking path parking area and add cameras
8. Parking lot renovations
9. Improved landscaping and additional shade trees

The Project includes a Project Labor Agreement.

This Project also includes approximately \$10,000 of landscaping work that will be performed by the Los Angeles Conservation Corps per the terms of one of the State Grant Funding Sources.

Community Outreach

This Project was developed based on direct community request and support. When the City began meeting with the community in 2018 about the new natural park at Taylor Yard G2, the community brought up the current issues with the conditions of the three natural turf soccer fields and restrooms at Rio de Los Angeles State Park. The scope of this Project was based on that initial request and then developed with community input and user feedback from five community meetings attended by a total of 472 individuals that were held in 2019 (5/02, 5/10, 6/1, 6/13, and 6/27) at Rio de Los Angeles State Park for a Prop 68 grant that was unsuccessful. After the initial grant was not successful the City, State and Partners helped identify other funding sources.

The final Project design was based on the Prop 68 public meetings and an additional virtual Community Meeting on April 13, 2022, and a final community open house on January 28, 2023. RAP posted signs at the park and shared information with all the youth and adult sports vendors that use the fields. City staff has also shared the meeting information through our 100 Acre-Partnership group that distributes a newsletter for the surrounding community and we have also emailed the three Neighborhood Councils. In addition, the Project scope and information were shared with the public at the Taylor Yard Paseo del Rio community meetings held on August 13, 2022 and August 5, 2023 at Rio de Los Angeles State Park.

PROJECT FUNDING

The City Engineer's estimate for the Project's construction cost is Seven Million Five Hundred Ninety-Five Thousand, Eight Hundred and Thirty-Two Dollars (\$7,595,832.00). The budgeted amount for construction contingency is Two Million Seven Hundred Fifty Seven Thousand, Two Hundred and Forty Nine dollars, and Seventy Nine Cents (\$2,757,249.79).

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Funds are currently available from the following funds and accounts:

Funding Source	Fund/Dept./Acct. No.	Amount
State Specified Grant	205/89/89WRKP	\$4,750,000.00
State Grant LOSPP	205/89/89WRKN	\$990,000.00
Quimby	302/89/89460K-AZ	\$97,477.79
Park Fees	302/89/89716H	\$1,631,715.00
Park Fees	302/89/89718H	\$308,889.00
RAP Budget Deferred Maint.	302/89/89727H-RI	\$1,545,000.00
RAP Budget Deferred Maint.	302/89/89727H-RO	\$1,030,000.00
	TOTAL	\$10,353,081.79

TREES AND SHADE

The landscaping design for the Project requires the removal of one existing (14" diameter) Western sycamore (*Platanus racemose*) species tree that intrudes into the walking path area, and the installation of 31 new trees. The new trees to be planted include five (5) 36-inch box Fraxinus veluntina, fan-tex ash; ten (10) 24-inch box Quercus agrifolia, coast live oak; nine (9) 24-inch box Quercus engelmannii, Engelmann oak; and seven (7) five-gallon Juglans californica, southern California walnut.

The Western Sycamore is a protected tree under the City's Protected Tree Ordinance and as a tree greater than 10" in diameter requires replacement according to a 1:1 diameter at dbh ratio that can be achieved through one or more trees. The ten (10) 24-inch box coast live oak; nine (9) 24-inch box Engelmann oak; and seven (7) five-gallon southern California walnut trees will achieve and exceed this replacement requirement to comply with the City's Protected Tree Ordinance. RAP's tree preservation policy mandates that all protected trees that are removed must be replaced with species that are protected. The replacement trees listed above are all protected species. RAP Forestry Division has reviewed the proposed tree removal and the proposed replacement tree planting plan and concurs with the recommendation to remove the tree and the proposed planting of the replacement trees.

Approximately five hundred eighty (580) square feet of tree canopy is proposed to be removed (not including dying or invasive trees), and approximately five thousand one hundred twenty (5,120) square feet of tree canopy is projected to be provided by the new trees after five (5) years, assuming a survival rate of 75 percent.

In addition to the new proposed shade trees, new shade structures for the picnic area and bleachers will provide 3,193 square feet of shade.

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ENVIRONMENTAL IMPACT

The proposed Project consists of maintenance, and minor alteration of existing highways and streets, sidewalks, gutters, bicycle and pedestrian trails, and similar facilities; replacement of existing structures and facilities where the new structure will be located on the same site as the structure replaced and have substantially the same purpose and capacity and new gardening or landscaping.

The use of the Categorical Exemptions was evaluated and found not to be limited by State CEQA Guidelines (CCR Sec 15300.2) as detailed below.

According to the parcel profile report retrieved on November 15, this area resides in a liquefaction zone. The construction of this Project will not create conditions that could lead to liquefaction. This site is not within a coastal, methane, or historic zone. Least Bell's vireo (*Vireo bellii pusillus*) (LBV) is known to occur adjacent to the Project site. This Project has been designed in consultation with the US Fish and Wildlife Service (USFWS) and the California Department of Fish and Wildlife (CDFW) to avoid impacts to this species from construction noise and implement construction under a no-take plan. The soil on the Project site was previously part of the Union Pacific Railyard and contaminated but was cleaned to residential standards under the oversight of the Department of Toxic Substances Control (DTSC) when the park was originally developed. In addition, potential significant effects due to hazards and hazardous materials were previously evaluated for the construction of the Park (State Parks, 2004). As such, there is no reasonable possibility that the proposed Project may impact on an environmental resource of hazardous or critical concern or have a significant effect due to unusual circumstances.

No cumulative impacts are expected from this Project. As identified on the 100-Acre Partnership's website (<https://www.100acrepartnership.org/projects>) several projects in the vicinity at the nearby and adjacent G1 and G2 Parcels are in the planning stages, such as the Bowtie Demonstration Project (2.5 acres), Bowtie G1 Project (18 acres), Paseo del Rio Project at Taylor Yard (approximately 16 acres). These projects are focused on habitat creation and restoration and passive recreation and will be constructed after implementation of the proposed Project.

As of November 15, 2023, the State Department of Toxic Substances Control (DTSC) (Envirostor at www.envirostor.dtsc.ca.gov) and the State Water Resources Control Board (SWCB) (Geotracker at <https://geotracker.waterboards.ca.gov/>) have not listed the Project site. They have listed RB Case # 112.6020 and case 3 19470006 near the Project area (within 1,000 feet). The first was a plating operation, investigated by the Regional Water Quality Control Board (RWQCB) in March 2004. RWQCB closed the case with no further action inn May 2004. The second is one of the sections of the Union Pacific Taylor Yard, that is currently undergoing remediation. These sites are not anticipated to represent an environmental concern in connection with the Project.

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

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Based in 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, Sections 15301(c), 15302 and 15304(b) of California CEQA Guidelines and Article III, Section 1, Class 1(3), Class 2 and Class 4(3) of City CEQA Guidelines. Staff will file a Notice of Exemption with the Los Angeles County Clerk upon Board's approval.

FISCAL IMPACT

The Project will be funded by a combination of the aforementioned funding sources. There is no immediate fiscal impact to RAP's General Fund at this time. However, operations and maintenance costs will be evaluated and included in future RAP budget requests.

The City's liability under the contract resulting from this bid process shall only extend to the present City appropriation to fund the contract. However, if the City appropriates additional funds for any succeeding years, the City's liability shall be extended to the extent of such appropriation, subject to the terms and conditions of the contract.

STRATEGIC PLAN INITIATIVES AND GOALS

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

Goal No. 3: Create and Maintain World Class Parks and Facilities

Outcome No. 2: Long-term park system planning is guided by community engagement, data, and a commitment to equity.

Key Metric: Complete capital improvement plan.

Target: 60% by 2023

This Report was prepared by Edward Belden, Project Manager, BOE Clean Water Division; Reviewed by Luz Rabelo, Civil Engineer, Christopher Johnson, Principal Civil Engineer, BOE Clean Water Division, Ohaji Abdallah, Proposition K Program Manager, BOE Architectural Division; and Darryl Ford, Superintendent, Planning, Construction and Maintenance Branch, Department of Recreation and Parks.

LIST OF ATTACHMENTS

Attachment No. 1 – Final Plans and Specifications

Attachment No. 2 – CEQA Notice of Exemption

CITY OF LOS ANGELES
DEPARTMENT OF PUBLIC WORKS
BUREAU OF ENGINEERING

RIO DE LOS ANGELES STATE PARK - FIELDS MAINTENANCE IMPROVEMENTS PROJECT

SCOPE OF WORK

SCOPE OF WORK:
DEMOLITION AND REMOVAL OF EXISTING RESTROOM, CONCRETE PAVING, FENCING, BLEACHERS, TURF FIELDS, AND ADDITIONAL ELEMENTS AS NOTED.

INSTALL:
(2) NEW SYNTHETIC TURF SPORTS FIELDS
RENOVATE (1) EXISTING NATURAL TURF FIELD
INSTALL NEW CHAIN LINK FENCING
INSTALL PARKING LOT ASPHALT PAVING AND STRIPING (99 TOTAL STALLS (4 ADA STALLS)), AND INSTALL NEW PERMEABLE PAVERS
INSTALL NEW RESTROOM FACILITY AND ASSOCIATED CONCRETE PAVING, PICNIC TABLES, SHADE STRUCTURES, ALUMINUM BLEACHERS, WALKING PATH, OTHER MISCELLANEOUS AMENITIES
UPGRADE AND EXTEND EXISTING SPORTSFIELD AND SECURITY LIGHTING AND SECURITY CAMERAS WITHIN THE AREA OF WORK. INSTALL NEW IRRIGATION, AND MAKE MODIFICATIONS TO THE EXISTING SYSTEM.
INSTALL NEW TURF FIELD AND CONTAINER PLANTING

ADDRESSES/LEGAL DESCRIPTION

1900 W SAN FERNANDO ROAD, LOS ANGELES, CA 90039
1545 N SAN FERNANDO ROAD, LOS ANGELES, CA 90039
1555 N SAN FERNANDO ROAD, LOS ANGELES, CA 90039
1559 N SAN FERNANDO ROAD, LOS ANGELES, CA 90039

PROPERTY BOUNDARY DESCRIPTION
POR LOTS 2 AND 7 M B 147-22-26 AND POR J.D.HUNTER 2290.16 AC C.F.61

APNs: 5442002911
PINs: 147A215-1, 147A215-1051, 147A217-363, 147A217-365

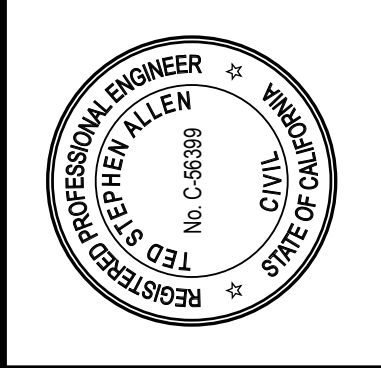
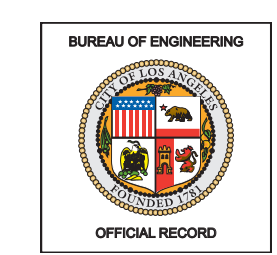
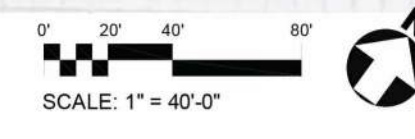
ZONING: [Q]CM-1-CDO-RIO, [Q]M2-1-CDO-RIO

OWNER

STATE OF CALIFORNIA - DEPARTMENT OF PARKS AND RECREATION
1925 LAS VIRGENES RD
CALABASAS, CA 91302

LEASEE: CITY OF LOS ANGELES DEPARTMENT OF RECREATION & PARKS
1200 W. 7TH STREET, 4TH FLOOR
LOS ANGELES, CA 90017

NOTE: THIS ILLUSTRATION IS INCLUDED FOR GRAPHIC PURPOSES ONLY. THE CONSTRUCTION PLANS INCLUDED HEREIN MAY CONTAIN DIFFERENCES IN LAYOUT AND/OR MATERIALS. PLEASE REFER ONLY TO CONSTRUCTION PLANS, NOTES AND SPECIFICATIONS FOR BIDDING AND CONSTRUCTION PURPOSES.

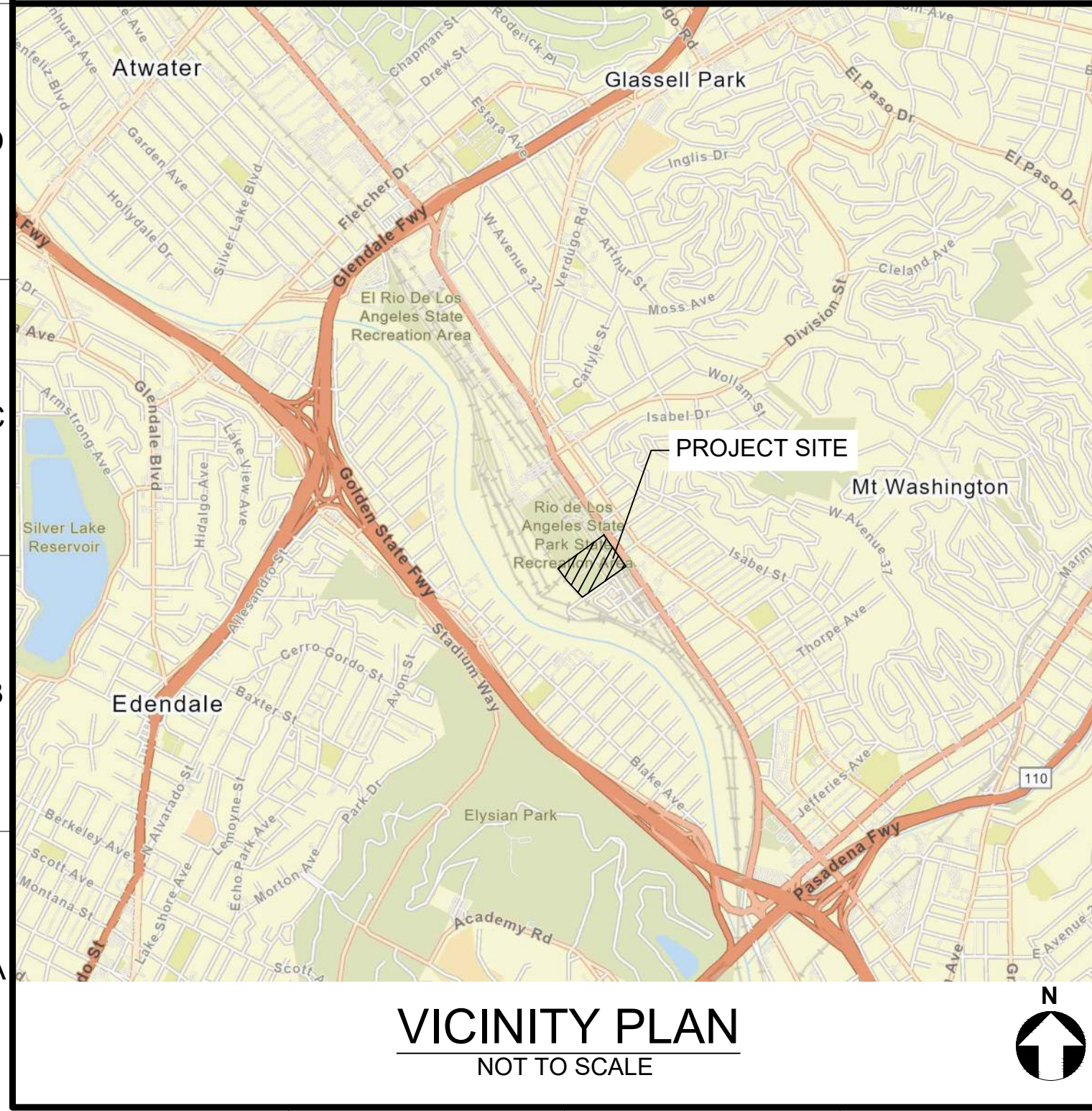


CLIENT: DEPARTMENT OF RECREATION & PARKS
GENERAL MANAGER: [Blank]
SHEET TITLE: COVER SHEET
PROJECT: RIO DE LOS ANGELES STATE PARK FIELDS MAINTENANCE IMPROVEMENTS PROJECT
ADDRESS: 1900 WEST SAN FERNANDO ROAD, LOS ANGELES, CA, 90039

REVISION DESCRIPTION: [Blank]
DATE: [Blank]
BY: [Blank]
INDEX NO.: RP-300125
SHEET TYPE: G1188
CIP NO.: G1188

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

REVISION DATES (DESIGN STAGE ONLY)



PROJECT TEAM

<p>PROJECT MANAGEMENT: CLEAN WATER DIVISION</p> <p>EDWARD BELDEN ENVIRONMENTAL SPECIALIST II 1149 S. BROADWAY, 8TH FLOOR LOS ANGELES, CA 90015 (213) 485-1093</p> <p>LUZ RABELO CIVIL ENGINEER 1149 S. BROADWAY, 8TH FLOOR LOS ANGELES, CA 90015</p> <p>CHRISTOPHER F. JOHNSON, PE, GE PRINCIPAL CIVIL ENGINEER 1149 S. BROADWAY, SUITE 620 LOS ANGELES, CA 90015</p>	<p>ARCHITECTURAL: ARCHITECTURAL DIVISION</p> <p>STEVEN FIERCE, AIA PRINCIPAL ARCHITECT 1149 S. BROADWAY, SUITE 830 LOS ANGELES, CA 90015</p> <p>JANE ADRIAN, RLA LANDSCAPE ARCHITECT II</p> <p>RICHARD FISHER, RLA ASLA LANDSCAPE ARCHITECT I</p> <p>ERNESTO GONZALEZ LANDSCAPE ARCHITECTURAL ASSOCIATE II</p>	<p>ELECTRICAL: ENVIRONMENTAL ENGINEERING DIVISION</p> <p>SHAH TARIQ, P.E. ELECTRICAL ENGINEERING ASSOCIATE III</p>
<p>CONSTRUCTION MANAGEMENT: CONSTRUCTION MANAGEMENT DIVISION</p> <p>RICHARD LOUIE, P.E. DIVISION ENGINEER</p>	<p>BID AND AWARD: PROJECT AWARD AND CONTROL GROUP</p> <p>GREG VANDERGRIFF, P.E. DIVISION ENGINEER</p>	<p>GEOTECHNICAL: GEOTECHNICAL ENGINEERING DIVISION</p> <p>PATRICK SCHMIDT, P.E. DIVISION ENGINEER</p> <p>EASTON FORCIER, P.E., G.E. GEOTECHNICAL ENGINEER II</p>
		<p>ENVIRONMENTAL: ENVIRONMENTAL MANAGEMENT GROUP</p> <p>MARIA MARTIN ENVIRONMENTAL AFFAIRS OFFICER</p> <p>SARAH BRYSON, PhD ENVIRONMENTAL SUPERVISOR I</p> <p>DR. JAN GREEN REBSTOCK, PhD ENVIRONMENTAL AFFAIRS OFFICER CLEAN WATER DIVISION, BUREAU OF ENGINEERING</p>

CLIENT: **DEPARTMENT OF RECREATION AND PARKS**

JIMMY KIM
GENERAL MANAGER
221 N. FIGUEROA ST., SUITE 400
LOS ANGELES, CA 90012

DARRYL FORD
SUPERINTENDENT OF PLANNING & CONSTRUCTION

CITY ENGINEER: TED ALLEN, P.E.
DEPUTY CITY ENGINEER: [Signature]
DATE: 8/14/2023
DATE: 9/4/2023

WORK ORDER NO. E1908951
FILE NO. 999
DRAWING NO. G001
SHEET 1 OF 100 SHEETS

LADBS STAMP

REVISION DATES (DESIGN STAGE ONLY) L K J H G F E D C B A

ABBREVIATIONS

Table of abbreviations including ACRYLONITRILE BUTADIENE STYRENE, BACKFLOW PREVENTION UNIT, CATCH BASIN, DECK DRAIN, ELECTRICAL, FACE OF CURB, GALLONS, HARDWARE, INCH, JOINT.

Table of abbreviations including LABORATORY, MAINTENANCE, NATURAL, OCCUPATIONAL SAFETY AND HEALTH, PAINTED, QUICK COUPLING VALVE, RADIUS, SANITARY SEWER, STATION, TOP OF CURB, UNIFORM BUILDING CODE, VERIFY IN FIELD, WATER METER, YARD.

SHEET INDEX

Table of sheet index listing sheet numbers (G001 to MD3) and their corresponding titles (COVER SHEET, LEGAL DESCRIPTION, ADA ACCESSIBLE PATH, etc.).

SCOPE OF WORK

SCOPE OF WORK: DEMOLITION AND REMOVAL OF EXISTING RESTROOM, CONCRETE PAVING, FENCING, BLEACHERS, TURF FIELDS, AND ADDITIONAL ELEMENTS AS NOTED.

BID ALTERNATE LEGEND

THE FOLLOWING ITEMS SHALL BE BID AS ADDITIVE ALTERNATES PER INSTRUCTIONS TO BIDDERS - SEE PLANS AND NOTES FOR DETAILED DESCRIPTION OF THE WORK TO BE INCLUDED IN EACH BID.

- 1 RENOVATE EXISTING DECOMPOSED GRANITE PAVING; REMOVE 2" OF MATERIAL FROM SURFACE, AND INSTALL NEW 'ORGANIC LOCK' DECOMPOSED GRANITE MATERIAL TO CORRECT FINISH GRADE AND PROFILE PER DETAIL E91407. EXISTING CONCRETE EDGING SHALL BE PROTECTED IN PLACE.

ADDRESSES/LEGAL DESCRIPTION

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1545 N SAN FERNANDO ROAD, LOS ANGELES, CA 90039
1555 N SAN FERNANDO ROAD, LOS ANGELES, CA 90039
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PROPERTY BOUNDARY DESCRIPTION
POR LOTS 2 AND 7 M B 147-22-26 AND POR J.D.HUNTER 2290.16 AC C.F.61

APNs: 5442002911
PINS: 147A215-1, 147A215-1051, 147A217-363, 147A217-365

ZONING: [Q]CM-1-CDO-RIO, [Q]M2-1-CDO-RIO

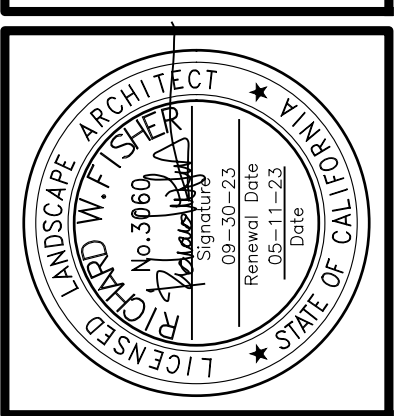
OWNER

STATE OF CALIFORNIA - DEPARTMENT OF PARKS AND RECREATION
1925 LAS VIRGENES RD
CALABASAS, CA 91302

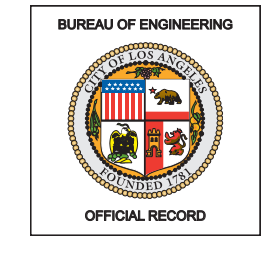
LEASEE: CITY OF LOS ANGELES DEPARTMENT OF RECREATION & PARKS
1200 W. 7TH STREET, 4TH FLOOR
LOS ANGELES, CA 90017

GENERAL NOTES

- 1. THIS IMPROVEMENT CONSISTS ONLY OF WORK CALLED FOR ON THESE CONTRACT DOCUMENTS.
2. THE CONTRACTOR SHALL BE RESPONSIBLE FOR OBTAINING AND PAYING FOR ALL NECESSARY PERMITS. CONTRACTORS SHALL BE REIMBURSED BY THE CITY FOR PERMIT FEES WHEN REQUIRED, "READY TO ISSUE" PERMIT PLANS SHALL BE PROVIDED BY THE CITY.
3. THE GENERAL CONDITIONS AND GENERAL REQUIREMENTS, THE LATEST EDITION AND SUPPLEMENTS OF THE STANDARD SPECIFICATIONS FOR PUBLIC WORKS CONSTRUCTION LATEST EDITION WITH CURRENT YEARLY SUPPLEMENTS, HEREINAFTER REFERRED TO AS (SSPWC) ADOPTED BY THE BOARD OF PUBLIC WORKS AND THE CITY OF LOS ANGELES INCLUDING THE CITY OF LOS ANGELES DEPARTMENT OF PUBLIC WORKS SSPWC ADDITIONS AND AMENDMENTS (BROWN BOOK) SHALL BE MADE A PART OF THESE PLANS. WEBSITE: http://eng.lacity.org/techdocs/stdplans/s-600/BB2006.pdf
4. THE CONTRACTOR SHALL BE RESPONSIBLE FOR INSTALLING A MINIMUM 6' HIGH TEMPORARY CHAINLINK CONSTRUCTION FENCE WITH LOCKABLE GATES AROUND ALL CONSTRUCTION AREAS. CONTRACTOR SHALL REVIEW ALIGNMENT AND LOCATION OF CONSTRUCTION FENCING WITH PROJECT MANAGER FOR APPROVAL PRIOR TO INSTALLATION. CONTRACTOR SHALL KEEP FENCING IN PLACE UNTIL CITY'S FINAL ACCEPTANCE OF THE WORK AFTER COMPLETION OF ESTABLISHMENT AND MAINTENANCE PERIOD. SEE GENERAL REQUIREMENTS.
5. THE CONTRACTOR SHALL BE RESPONSIBLE FOR EXAMINING AND DOCUMENTING THE SITE PRIOR TO MOBILIZATION AND THE BEGINNING OF CONSTRUCTION. ANY EXISTING ELEMENTS TO BE PROTECTED IN PLACE, WHICH SHOW ANY TYPE OF DAMAGE (E.G. CRACKED CONCRETE, DAMAGE TO TREES, ETC.), SHOULD BE DOCUMENTED AND BROUGHT TO THE ATTENTION OF THE PROJECT MANAGER. SEE GENERAL REQUIREMENT.
6. THE CONTRACTOR SHALL BE RESPONSIBLE TO REDUCE CONSTRUCTION WASTE IN ACCORDANCE WITH LAMC SECTION 66.32 et seq. THE CONTRACTOR SHALL INDICATE THAT CONSTRUCTION WASTE WILL BE HANDLED BY (A) CITY OF LOS ANGELES CERTIFIED HAULER, OR (B) SOURCE SEPARATED ON SITE (INCORPORATE WASTE MANAGEMENT PLAN ONTO PLANS).
7. THE CONTRACTOR IS RESPONSIBLE FOR PROTECTION OF ALL EXISTING TREES TO REMAIN DURING CONSTRUCTION. SEE TREE PROTECTION REQUIREMENTS HEREIN.
8. THE EXISTING CONDITIONS SHOWN ON THE PLANS ARE BASED UPON AS-BUILT DRAWINGS AND FIELD SURVEY. IT SHALL BE THE RESPONSIBILITY OF THE CONTRACTOR TO REPORT ANY SUB-SURFACE OR PHYSICAL CONDITIONS ENCOUNTERED WHICH THE CONTRACTOR BELIEVES, OR SHOULD HAVE SUSPECTED IN THE EXERCISE OF DUE DILIGENCE AND EXTREME CARE, TO CONSTITUTE DIFFERING SITE CONDITIONS IN WRITING TO THE BCA INSPECTOR AND THE PROJECT MANAGER WITHIN TWENTY FOUR (24) HOURS OF DISCOVERY, AS SET FORTH IN THE GENERAL CONDITIONS.
9. SURVEYING REQUIRED FOR VERTICAL AND HORIZONTAL ALIGNMENT MUST BE PROVIDED BY THE CONTRACTOR AT HIS OWN EXPENSE, AND BE PERFORMED PER THE GENERAL REQUIREMENTS. CONTRACTOR SHALL VERIFY AND MARK ALL PROPERTY LINES OR LIMIT OF WORK LINES PRIOR TO COMMENCING WORK. CONTRACTOR SHALL BE PROVIDED DIGITAL CAD FILES BY THE CITY FOR USE IN THE LAYOUT OF WORK.
10. CONTRACTOR SHALL VERIFY ALL CONDITIONS AND DIMENSIONS AT THE JOB SITE AND NOTIFY PROJECT MANAGER IMMEDIATELY OF ANY DIMENSIONAL ERRORS, OMISSIONS, OR DISCREPANCIES BEFORE BEGINNING OR FABRICATING ANY WORK. IN THE CASE THE CONTRACTOR DOES NOT PROVIDE IMMEDIATE NOTIFICATION, ANY CORRECTIONS OR REVISIONS OF SUBSEQUENT WORK PERFORMED BY CONTRACTOR REQUIRED DUE TO THESE DISCREPANCIES SHALL BE PERFORMED AT THE CONTRACTOR'S EXPENSE.
11. ALL WORK SHALL COMPLY WITH THE REQUIREMENTS OF THE WORK SPECIFIED ON THE DRAWINGS AND WITHIN SPECIFICATIONS AND THE VARIOUS NOTES SHOWN HEREIN.
12. THE CONTRACT DRAWINGS AND SPECIFICATIONS REPRESENT THE FINISHED PROJECT UNLESS OTHERWISE SHOWN; THEY DO NOT INDICATE THE METHOD OF CONSTRUCTION IN EVERY CASE. THE CONTRACTOR SHALL SUPERVISE AND DIRECT THE WORK, AND SHALL BE SOLELY RESPONSIBLE FOR ALL CONSTRUCTION MEANS, METHODS, TECHNIQUES, SEQUENCES AND PROCEDURES.
13. UNAUTHORIZED CHANGES & USES: THE CITY WILL NOT BE RESPONSIBLE FOR, OR LIABLE FOR, UNAUTHORIZED CHANGES TO OR USES OF THESE PLANS. ALL CHANGES TO THE PLANS MUST BE IN WRITING AND MUST BE APPROVED BY THE PREPARER OF THESE PLANS AND THE CITY. SEE GENERAL CONDITIONS.



CLIENT: DEPARTMENT OF RECREATION & PARKS
GENERAL MANAGER:
SHEET TITLE: LEGAL DESCRIPTION/SCOPE OF WORK/GENERAL NOTES/SHEET INDEX AND ABBREVIATIONS
PROJECT: RIO DE LOS ANGELES STATE PARK FIELDS MAINTENANCE IMPROVEMENTS PROJECT
ADDRESS: 1900 WEST SAN FERNANDO ROAD, LOS ANGELES, CA, 90039



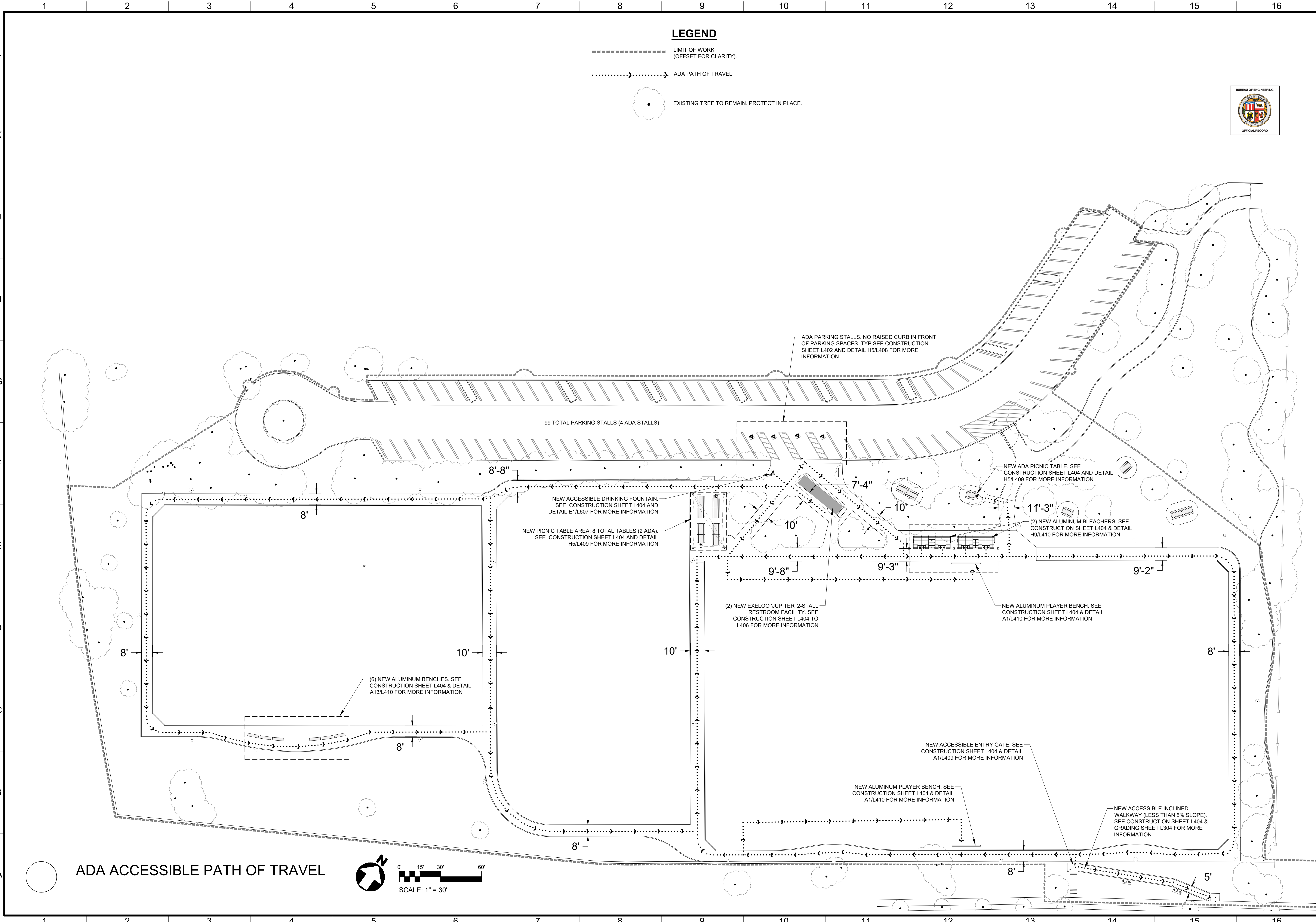
INDEX NO. RP-300125
CIP NO. G1188

CITY ENGINEER: TED ALLEN, P.E., CITY ENGINEER
DESIGN GROUP:
ARCHITECT: RICHARD W. FISHER, LANDSCAPE ARCHITECT I
DESIGNED BY: RICHARD W. FISHER, LANDSCAPE ARCHITECT I
DRAWN BY: ERNESTO GONZALEZ, LANDSCAPE ARCH. ASSOCIATE II
CHECKED BY: RICHARD W. FISHER, LANDSCAPE ARCHITECT I
DATE: 7/13/2023

WORK ORDER NO. E1908951
FILE NO. 999
DRAWING NO. G002
SHEET 2 of 100 SHEETS

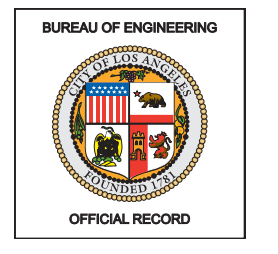
THE CITY OF LOS ANGELES OR ITS OFFICERS OR AGENTS SHALL NOT BE RESPONSIBLE FOR THE ACCURACY OR COMPLETENESS OF ELECTRONIC COPIES OF THIS PLAN SHEET.

REVISION DATES (DESIGN STAGE ONLY)

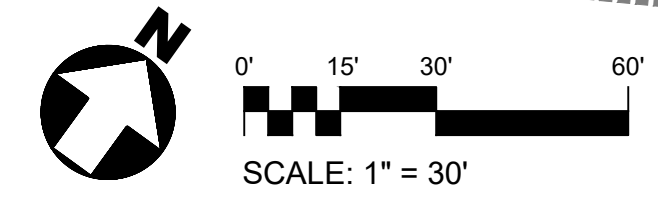


LEGEND

- LIMIT OF WORK (OFFSET FOR CLARITY).
-> ADA PATH OF TRAVEL
- EXISTING TREE TO REMAIN. PROTECT IN PLACE.



ADA ACCESSIBLE PATH OF TRAVEL



ENGINEERING
CITY OF LOS ANGELES

BUREAU OF ENGINEERING
OFFICIAL RECORD

THIS PLAN WAS ELECTRONICALLY SIGNED AND STAMPED

CITY OF LOS ANGELES DEPARTMENT OF PUBLIC WORKS

CLIENT: DEPARTMENT OF RECREATION & PARKS
GENERAL MANAGER: [Blank]
SHEET TITLE: ADA ACCESSIBLE PATH OF TRAVEL PLAN
PROJECT: RIO DE LOS ANGELES STATE PARK FIELDS MAINTENANCE IMPROVEMENTS PROJECT
ADDRESS: 1900 WEST SAN FERNANDO ROAD, LOS ANGELES, CA. 90039

NO.	REVISION DESCRIPTION	DATE	BY

INDEX NO. **RP-300125** CIP NO. **G1188**

ENGINEER: TED ALLEN, P.E., CITY ENGINEER
DESIGN GROUP: [Blank]
DATE: [Blank]
ARCHITECT: RICHARD W. FISHER, LANDSCAPE ARCHITECT I
DESIGNED BY: ERNESTO GONZALEZ, LANDSCAPE ARCH. ASSOCIATE II | 7/13/2023
DRAWN BY: RICHARD W. FISHER, LANDSCAPE ARCHITECT I
CHECKED BY: RICHARD W. FISHER, LANDSCAPE ARCHITECT I
APPROVED BY: [Blank]

WORK ORDER NO. **E1908951**
FILE NO. **999**
DRAWING NO. **G003**
SHEET **3** OF 100 SHEETS

REVISION DATES (DESIGN STAGE ONLY)

1 2 3 4 5 6 7 8 9 10 11 12 13 14 15 16

CITY OF LOS ANGELES
CALIFORNIA

BOARD OF BUILDING AND SAFETY COMMISSIONERS

JAVIER NUNEZ
PRESIDENT

ELVIN W. MOON
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DEPARTMENT OF BUILDING AND SAFETY
201 NORTH FIGUEROA STREET
LOS ANGELES, CA 90012

OSAMA YOUNAN, P.E.
GENERAL MANAGER
SUPERINTENDENT OF BUILDING

JOHN WEIGHT
EXECUTIVE OFFICER

KAREN BASS
MAYOR

SOILS REPORT APPROVAL LETTER

December 28, 2022

LOG # 124151
SOILS/GEOLGY FILE - 2
LIQ-Exempt

LA Parks and Rec.
221 N. Figueroa St.
Los Angeles, CA 90012

TRACT: SOUTHERN PACIFIC CLASSIFICATION YARD TRACT(M P 147-22/26)
LOT(S): FR LT 2 and 7
LOCATION: 1545 - 1559 N. San Fernando Rd.

CURRENT REFERENCE REPORT/LETTER(S)	REPORT No.	DATE OF DOCUMENT	PREPARED BY
Addendum Report	22-066	10/05/2022	Geotechnical Engineering Division
Soils Report	"	09/20/2022	"
Laboratory Test Report	16-31-260-32	09/12/2022	Converse Consultants
Laboratory Test Report	22-0876	08/26/2022	Converse Consultants

The Grading Division of the Department of Building and Safety has reviewed the referenced report that provide recommendations for the proposed 2 prefabricated restrooms, 3 soccer fields, bleachers, 2 shade structures, stadium lights, pathway, lighting and fencing. The earth materials at the subsurface exploration locations consist of up to 14 feet of uncemented fill underlain by native soils. The consultants recommend to support the proposed structure(s) on drilled-pile foundations bearing on native undisturbed soils.

The site is located in a designated liquefaction hazard zone, as shown on the Seismic Hazard Zones map issued by the State of California. However, the proposed construction is currently exempt (P/BC 2020-044).

As of January 1, 2020, the City of Los Angeles has adopted the new 2020 Los Angeles Building Code (LABC). The 2020 LABC requirements will apply to all projects where the permit application submittal date is after January 1, 2020.

The referenced report is acceptable, provided the following conditions are complied with during site development:

LADBS 0-9 (Rev. 12/12/2022) AN EQUAL EMPLOYMENT OPPORTUNITY - AFFIRMATIVE ACTION EMPLOYER

Page 2
1545 - 1559 N. San Fernando Rd.

(Note: Numbers in parenthesis () refer to applicable sections of the 2020 City of LA Building Code. P/BC numbers refer the applicable Information Bulletin. Information Bulletins can be accessed on the internet at LADBS.ORG.)

- The soils engineer shall review and approve the detailed plans prior to issuance of any permit. This approval shall be by signature on the plans that clearly indicates the soils engineer has reviewed the plans prepared by the design engineer; and, that the plans included the recommendations contained in their reports (7006.1).
- All recommendations of the reports that are in addition to or more restrictive than the conditions contained herein shall be incorporated into the plans.
- A copy of the subject and appropriate referenced reports and this approval letter shall be attached to the District Office and field set of plans (7006.1). Submit one copy of the above reports to the Building Department Plan Checker prior to issuance of the permit.
- A grading permit shall be obtained for all structural fill and retaining wall backfill (106.1.2).
- All man-made fill shall be compacted to a minimum 90 percent of the maximum dry density of the fill material per the latest version of ASTM D 1557. Where cohesionless soil having less than 15 percent finer than 0.005 millimeters is used for fill, it shall be compacted to a minimum of 95 percent relative compaction based on maximum dry density. Placement of gravel in lieu of compacted fill is only allowed if complying with LAMC Section 91.7011.3.
- Existing uncemented fill shall not be used for support of footings, concrete slabs or new fill (1809.2, 7011.3).
- Drainage in conformance with the provisions of the Code shall be maintained during and subsequent to construction (7013.12).
- The applicant is advised that the approval of this report does not waive the requirements for excavations contained in the General Safety Orders of the California Department of Industrial Relations (3301.1).
- Excavations shall not remove lateral support from a public way, adjacent property or an existing structure. Note: Lateral support shall be considered to be removed when the excavation extends below a plane projected downward at an angle of 45 degrees from the bottom of a footing of an existing structure, from the edge of the public way or an adjacent property. (3307.3.1)
- A supplemental report shall be submitted to the Grading Division of the Department containing recommendations for shoring, underpinning, and sequence of construction in the event that any excavation would remove lateral support to the public way, adjacent property, or adjacent structures (3307.3). A plot plan and cross-section(s) showing the construction type, number of stories, and location of the structures adjacent to the excavation shall be part of the excavation plans (7006.2).
- Prior to the issuance of any permit that authorizes an excavation where the excavation is to be of a greater depth than are the walls or foundation of any adjoining building or structure and located closer to the property line than the depth of the excavation, the owner of the

- Page 3
1545 - 1559 N. San Fernando Rd.
- subject site shall provide the Department with evidence that the adjacent property owner has been given a 30-day written notice of such intent to make an excavation (3307.1).
- Unsurcharged temporary excavations over 5 feet exposing soil shall be trimmed back at a gradient not exceeding 1:1, as recommended.
 - All foundations shall derive entire support from native undisturbed soils, as recommended.
 - Pile caisson and/or isolated foundation ties are required by LAMC Sections 91.1809.13 and/or 91.1810.3.13. Exceptions and modification to this requirement are provided in Information Bulletin P/BC 2020-030.
 - When water is present in drilled pile holes, the concrete shall be tremied from the bottom up to ensure minimum segregation of the mix and negligible turbulence of the water (1808.8.3).
 - Existing uncemented fill shall not be used for lateral support of deep foundations (1810.2.1).
 - The seismic design shall be based on a Site Class D, as recommended. All other seismic design parameters shall be reviewed by LADBS building plan check.
 - The structure shall be connected to the public sewer system per P/BC 2020-027.
 - All roof, pad and deck drainage shall be conducted to the street in an acceptable manner in non-erosive devices or other approved location in a manner that is acceptable to the LADBS and the Department of Public Works (7013.10).
 - All concentrated drainage shall be conducted in an approved device and disposed of in a manner approved by the LADBS (7013.10).
 - The soils engineer shall inspect all excavations to determine that conditions anticipated in the report have been encountered and to provide recommendations for the correction of hazards found during grading (7008, 1705.6 & 1705.8).
 - All friction pile or caisson drilling and excavations shall be performed under the inspection and approval of the geologist and soils engineer. The geologist shall indicate the distance that friction piles or caissons penetrate into competent material in a written field memorandum. (1803.5.5, 1705.1.2)
 - Prior to pouring concrete, a representative of the consulting soils engineer shall inspect and approve the footing excavations. The representative shall post a notice on the job site for the LADBS Inspector and the Contractor stating that the work inspected meets the conditions of the report. No concrete shall be poured until the LADBS Inspector has also inspected and approved the footing excavations. A written certification to this effect shall be filed with the Grading Division of the Department upon completion of the work. (108.9 & 7008.2)
 - Prior to excavation an initial inspection shall be called with the LADBS Inspector. During the initial inspection, the sequence of construction; pile installation; protection fences; and, dust and traffic control will be scheduled (108.9.1).

- Page 4
1545 - 1559 N. San Fernando Rd.
- Installation of shoring, underpinning, slot cutting and/or pile excavations shall be performed under the inspection and approval of the soils engineer and deputy grading inspector (1705.6, 1705.8).
 - Prior to the placing of compacted fill, a representative of the soils engineer shall inspect and approve the bottom excavations. The representative shall post a notice on the job site for the LADBS Inspector and the Contractor stating that the soil inspected meets the conditions of the report. No fill shall be placed until the LADBS Inspector has also inspected and approved the bottom excavations. A written certification to this effect shall be included in the final compaction report filed with the Grading Division of the Department. All fill shall be placed under the inspection and approval of the soils engineer. A compaction report together with the approved soil report and Department approval letter shall be submitted to the Grading Division of the Department upon completion of the compaction. In addition, an Engineer's Certificate of Compliance with the legal description as indicated in the grading permit and the permit number shall be included (7011.3).

ALAN DANG
Structural Engineering Associate II

AD/ad
Log No. 724151
213-482-0480

Geotechnical Engineering Division (GED), Project Consultant
LA District Office

CITY OF LOS ANGELES
DEPARTMENT OF BUILDING AND SAFETY
Grading Division

District: WV Log No. 124151

APPLICATION FOR REVIEW OF TECHNICAL REPORTS

INSTRUCTIONS

A. Address all communications to the Grading Division, LADBS, 201 N. Figueroa St., 3rd Fl., Los Angeles, CA 90012
Telephone No. (213)482-0480.

B. Submit two copies (three for subdivisions) of reports; one "pdf" copy of the report on a CD-Rom or flash drive, and one copy of application with items "1" through "10" completed.

C. Check should be made to the City of Los Angeles.

1. LEGAL DESCRIPTION: Tract: Southern Pacific Classification Yard Tract. 2. PROJECT ADDRESS: 1545 - 1559 North San Fernando Road

Block: Lots: FR LT 2 and 7 4. APPLICANT: City of LA, DPW, BOE, "GED"

3. OWNER: Los Angeles Dept. of Recreation and Parks. Address: 1149 S Broadway, Suite 120
Address: 221 N Figueroa, Suite City: LA Zip: 90015
City: LA Zip: 90012 Phone (Daytime): (213) 847-0476
Phone (Daytime): (213) 473-9924 Email address: easton.forcier@lacity.org

5. Report(s) Prepared by: "GED" 6. Report Date(s): 9-20-22, 10-5-22

7. Status of project: Proposed Under Construction Storm Damage

8. Previous site reports? YES if yes, give date(s) of report(s) and name of company who prepared report(s)
"GED" Reports dated 2-19-04, 4-14-04, 1-27-05, and 10-12-05

9. Previous Department actions? YES if yes, provide dates and attach a copy to expedite processing.
Dates: None to the best of my knowledge

10. Applicant Signature: Easton Forcier Position: Geotechnical Engineer II

REVIEW REQUESTED	FEES	REVIEW REQUESTED	FEES
<input checked="" type="checkbox"/> Soils Engineering	303.00	No. of Lots	
<input type="checkbox"/> Geology		No. of Acres	
<input type="checkbox"/> Combined Soils Engr. & Geol.		<input type="checkbox"/> Division of Land	
<input type="checkbox"/> Supplemental		<input type="checkbox"/> Other:	
<input type="checkbox"/> Combined Supplemental		<input type="checkbox"/> Expedite	
<input type="checkbox"/> Import-Export Route		<input type="checkbox"/> Response to Correction	
<input type="checkbox"/> Cubic Yards:		<input type="checkbox"/> Expedite ONLY	
		Sub-total	303.00
		One-Stop Surcharge	152.00
		TOTAL FEE	452.00

ACTION BY: THE REPORT IS: NOT APPROVED BELOW ATTACHED

APPROVED WITH CONDITIONS

For Geology: Date: _____

For Soils: Date: _____

ENGINEERING
CITY OF LOS ANGELES

LANDSCAPE ARCHITECT
RICHARD W. FISHER ARCHITECT I
ERNESTO GONZALEZ LANDSCAPE ARCH. ASSOCIATE II
RICHARD W. FISHER, LANDSCAPE ARCHITECT I

BUREAU OF ENGINEERING

CLIENT: DEPARTMENT OF RECREATION & PARKS
GENERAL MANAGER: _____

SHEET TITLE: LADBS SOILS REPORT APPROVAL LETTER

PROJECT: RIO DE LOS ANGELES STATE PARK FIELDS MAINTENANCE IMPROVEMENTS PROJECT

ADDRESS: 1900 WEST SAN FERNANDO ROAD, LOS ANGELES, CA, 90039

DEPARTMENT OF PUBLIC WORKS

INDEX NO. **RP-300125**

CIP NO. **G1188**

CITY OF LOS ANGELES

TED ALLEN, P.E., CITY ENGINEER
DESIGN GROUP

CITY ENGINEER DATE: _____

ENGINEER: _____

ARCHITECT: RICHARD W. FISHER, LANDSCAPE ARCHITECT I

DESIGNED BY: ERNESTO GONZALEZ, LANDSCAPE ARCH. ASSOCIATE II

DRAWN BY: RICHARD W. FISHER, LANDSCAPE ARCHITECT I

CHECKED BY: _____

APPROVED BY: _____

WORK ORDER NO. **E1908951**

FILE NO. **999**

DRAWING NO. **G005**

SHEET **5** OF 100 SHEETS

LANDSCAPE SPECIFICATIONS

Rio De Los Angeles State Park Improvements
Project # 999

Table of contents

Section	Section title
00 00 00	GENERAL
01 60 10	BCCA REQUIREMENTS
02 41 10	SITE DEMOLITION
03 20 00	REINFORCEMENT STEEL
03 30 00	CAST IN PLACE CONCRETE
31 00 00	GENERAL EARTHWORK
31 10 00	SITE CLEARING AND DEMOLITION
32 12 16	ASPHALT PAVING
32 14 14	PERMEABLE INTERLOCKING CONCRETE PAVING
32 15 40	STABILIZED CRUSHED AGGREGATE PAVING
32 31 13	CHAIN LINK FENCING AND GATES
32 80 00	IRRIGATION
32 90 00	LANDSCAPE PLANTING
32 92 13	HYDROMULCHING
33 30 00	SANITARY SEWER SYSTEMS
33 40 00	STORM DRAIN SYSTEMS

1. GENERAL

A. The GENERAL CONDITIONS and GENERAL REQUIREMENTS, the latest edition and supplements of the Standard Specifications For Public Works Construction, hereinafter referred to as (SSPWC) adopted by the Board Of Public Works and the City of Los Angeles including the City of Los Angeles Department Of Public Works SSPWC additions and amendments (Brown Book) shall be made a part of these plans.

1. Website: <http://eng2.laCITY.org/brownbook/frame.cfm>

B. Where conflicts occur between the GENERAL CONDITIONS and GENERAL REQUIREMENTS and the SSPWC, the GENERAL CONDITIONS and GENERAL REQUIREMENTS shall take precedence. Where conflicts occur between these LANDSCAPE SPECIFICATIONS and the SSPWC, these LANDSCAPE SPECIFICATIONS shall take precedence.

1. Subsections included within these LANDSCAPE SPECIFICATIONS 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 herein shall be used.

C. Precedence of contract documents shall be in accordance with the GENERAL CONDITIONS.

D. Contract work area shall be as defined on the title sheet, or as indicated on the plans by means of a contract limit of work line.

E. Permits and licenses: CONTRACTOR shall procure all required CITY, county and state permits and licenses, including municipal business license and pay all charges and fees for the same.

F. These LANDSCAPE SPECIFICATIONS apply only to work described on sheets L001-L704.

G. The project site shall be maintained in conformance with Section 7-8: Project Site Maintenance of the SSPWC and the requirements of the Project Manual.

1.1 PLANS AND SPECIFICATIONS

A. The CONTRACTOR shall be responsible for issuing a complete set of plans and specifications to all Sub-Contractors.

B. CONTRACTOR shall maintain a current set of plans reflecting all issued plan clarifications, RFI's and change orders at all times.

C. GEOTECHNICAL INFORMATION: The Geotechnical Report No. 22-066 dated September 20, 2022, addendum report dated October 5, 2022 and LADBS Soils Report Approval Letter LOG# 124151 dated December 28, 2022 is a part of Project Manual. CONTRACTOR shall comply with all soils report recommendations specified and other instruction directed by the GEOTECHNICAL ENGINEER. In case of conflicts between another part of the Project Manual and Geotechnical Report the most restrictive condition shall govern unless otherwise approved by the GEOTECHNICAL ENGINEER.

1.2 SCHEDULE OF WORK

A. The CONTRACTOR shall schedule all work in accordance with the GENERAL REQUIREMENTS.

B. The PROJECT MANAGER, CONSTRUCTION MANAGER, ENGINEER, CONTRACTOR and Department Of Recreation & Parks (RAP) maintenance personnel shall coordinate the CONTRACTOR's schedule of work with ongoing RAP maintenance of the facility outside the work area and the CONTRACTOR's maintenance of the area within the work area, as defined in the maintenance portion of the LANDSCAPE PLANTING section.

1.3 JOB START MEETING

A. The CONTRACTOR shall schedule a job start meeting with the PROJECT MANAGER after receipt of the notice to proceed. This meeting shall include the following participants: CONTRACTOR, PROJECT MANAGER, CONSTRUCTION MANAGER, BCA Inspector, ENGINEER, and RAP site maintenance personnel prior to the commencement of meeting to review the content of the plans and discuss the coordination of the project with RAP operations at the project site. The pre-construction meeting can be held at the same time as the job start meeting at the CONTRACTOR's discretion.

1.4 QUALITY ASSURANCE

A. Labor: use adequate number of skilled laborers who are thoroughly trained and experienced in the necessary crafts and who are completely familiar with the specified requirements and the methods needed for proper performance of the work of this section.

B. Codes and regulations: conform to the applicable Los Angeles City Building Code and Amendments, the SSPWC latest edition, Los Angeles City Bureau of Engineering Brown Book, latest edition and provisions hereinafter specified in the Project Manual, and all other applicable codes and regulations.

C. Permits: CONTRACTOR shall submit inspection/acceptance certificates required by the governing authorities and pay for all the required permits, plan check, inspections, and fees unless otherwise noted. CONTRACTOR shall arrange for and make required inspections and tests.

D. Inspections: all work and materials are subject to inspection and approval by the BCA inspector, PROJECT MANAGER or project ENGINEER. Any work done without required inspection will be subject to rejection per Section 2-11 of the SSPWC.

1. The CONTRACTOR shall notify the BCA Inspector and PROJECT MANAGER three (3) days prior to requested date of inspection. See each section herein for required inspections for each type of work.

2. Pre-final inspection: Pre-final inspection shall be in accordance with Article 46 of the GENERAL CONDITIONS.

3. Contract final inspection: contract final inspection shall be in accordance with the GENERAL CONDITIONS

4. In-plant inspection: CONTRACTOR shall be responsible for scheduling all required in-plant inspections with the Bureau of Contract Administration. In-plant inspection requirements shall be determined by BCA materials control unit, and shall include, but not limited to, the following items:

1. Galvanizing of fabricated steel items	6. Shop welding of fabricated steel items
2. Galvanizing of chain link fabric and hardware	7. Shop painting of fabricated steel items
3. Steel grates and frames	
4. Portland cement concrete & base	
5. Asphalt concrete and base	

1.5 MATERIALS SUBMITTAL

The CONTRACTOR shall make required submittals in accordance with the GENERAL REQUIREMENTS.

1.6 SUBSTITUTIONS AND "OR EQUAL" SUBMITTAL

The CONTRACTOR shall make substitution submittals in accordance with the GENERAL REQUIREMENTS.

1.7 RECORD DRAWINGS (AS-BUILTS) SUBMITTALS

Record drawings shall be in accordance with the GENERAL REQUIREMENTS. See Section 32 80 00 - IRRIGATION SYSTEMS for additional requirements.

1.8 DEPARTMENT OF PUBLIC WORKS STANDARD PLANS

The following department of public works standard plans are to be included as a part of these plans:

Number title
S-463-3 Handrail and Guardrail On Stairways

SSPWC

2017 edition of the Greenbook

Website: <http://eng.laCITY.org/techdocs>

1.9 LAYOUT OF WORK & GRADE SHEET APPROVAL

All spot elevations, grading contour lines, and grades shown on the plans for grading, pavement and drainage improvements shall be staked by a California licensed land surveyor provided by the CONTRACTOR at no additional cost to the CITY per the GENERAL REQUIREMENTS. 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 CONSTRUCTION MANAGER for approval one week in advance of any grading operations.

1.10 PROTECTION OF PERSONS AND PROPERTY

A. General: comply with provisions of Article 30 - Protection of Persons And Property And Restoration Of Existing Improvements in the GENERAL CONDITIONS.

B. Protections of persons and property: provide and install signs, barricades and other required devices or techniques at danger points in the job site to guard against accidents, etc.

C. Existing improvements: protect against damage resulting from CONTRACTOR'S operations. Repair or replace damaged items to the full satisfaction of the CITY at no additional cost to the CITY.

1. See: Tree Protection Requirements, sheet L017 for addition requirements.

D. Existing utilities: utilities shown on the drawings are shown pursuant to a search of available records and are shown as a matter of information and not as a matter of fact. Conforming with GENERAL REQUIREMENTS and other sections of the Project Manual, the CONTRACTOR shall locate existing underground utilities in areas of work. If utilities are to remain in place, provide adequate means of support and protection during earthwork operations.

1. Should uncharted or incorrectly charted piping or other utilities be encountered during excavation, CONTRACTOR shall notify the CONSTRUCTION MANAGER immediately for direction. CONTRACTOR shall cooperate with CITY and utility companies in keeping respective services and facilities in operation. Repair damaged utilities to satisfaction of utility company.

2. Do not interrupt existing utilities serving facilities occupied and used by CITY and others, during occupied hours, except when permitted in writing by the PROJECT MANAGER and then only after acceptable temporary utility services have been provided.

3. Provide a minimum of 48-hour notice to the PROJECT MANAGER and receive written notice to proceed before interrupting any utility. Obtain clearance and notify all utility companies in the area and call underground service alert by calling (800) 422-4133. Deliver utility clearance ticket number to the BCA inspector prior to the start of any work.

4. Demolish and completely remove from site existing underground utilities indicated to be removed. Coordinate with utility companies for shut-off of service if lines are active.

1.11 ENVIRONMENTAL CONTROL

CONTRACTOR shall comply with provisions of Article 5 in GENERAL REQUIREMENTS – Environmental Control and Mitigation, to include:

A. Site sanitation and odor control: use means necessary to provide sanitary conditions at job site and prevent a nuisance to the public, to neighbors, and to other work being performed on or near the job site. Comply with all applicable codes and ordinances.

B. Dust control: use means necessary to prevent dust becoming a nuisance to the public, to neighbors, and to other work being performed on or near the job site. Comply with all applicable codes and ordinances.

C. Noise and vibration: comply with requirements of CITY noise ordinances and mitigation specified in general requirements.

D. Storm water pollution control: the CONTRACTOR is responsible for obtaining all required permits and deploying all required storm water pollution control measures for construction activities, including when required:

1. Comply with the state general construction activity storm water permit.

2. Wet weather erosion control plan (WWCEP)

3. The CONTRACTOR Stormwater Pollution Prevention Plan (SWPPP): CONTRACTOR is responsible for the payment of the notice of intent (NOI) to the State of California Water Resources Control Board to comply with the California General Construction Activity Stormwater Permit (NPDES NO. CAS000002), and the prepare and implement a Storm Water Pollution Prevention Plan (SWPPP) document, which is to be prepared by a qualified SWPPP developer (QSD). This document is to be submitted to the PROJECT MANAGER for approval and submission to the State Water Resources Control Board. The SWPPP must describe the erosion control practices being implemented during construction and the selection and implementation of appropriate BMP's to account for site-specific and seasonal conditions. CONTRACTOR shall draft the SWPPP before start of construction and submit it to the ENGINEER for approval; no construction work shall commence without an approved SWPPP. The document is to remain on the construction site and all the measures stated in the document are to be implemented during the duration of construction. The QSD shall be responsible for creating, revising, overseeing and implementing the SWPPP and the National Pollutant Discharge Elimination System (NPDES) General Permit for Storm Water Discharges Associated with Construction and Land Disturbance Activities.

E. Migratory Bird Protection: In compliance with the Migratory Bird Treaty Act and California Fish and Game Code Sections 3503.3 and 3503.5, all designated tree removal shall take place outside of the nesting bird season (February 1 to September 1), unless specifically authorized by the PROJECT MANAGER in writing. In accordance with these regulatory requirements, removal of trees may be performed between September 2 and January 31 to avoid the nesting bird season. If tree removal or adjacent construction activities are to occur during the nesting bird season, all suitable habitats inside the limit of work and extending 500' beyond, shall be thoroughly surveyed for the presence of nesting birds by a qualified biologist (or a qualified arborist) at the CONTRACTOR'S expense, a minimum of (3) days prior any tree removal. If any active nests are detected, tree removal will be suspended, and the area will be flagged. A minimum 250 foot (500 foot for raptors) non-disturbance buffer shall be established (a modification of this buffer may be determined by the monitoring biologist and in consultation with US Fish and Wildlife Service and California Department of Fish and Wildlife), and construction activity inside the established buffer shall be suspended until the nesting cycle has been completed, and the monitoring biologist determines that the nest has fledged. SEE SUPPLEMENTAL GENERAL REQUIREMENTS FOR ADDITIONAL INFORMATION.

SECTION 01 60 10

BUY CLEAN CALIFORNIA ACT

PART 1 – GENERAL

1.1 SUMMARY

A. For projects that include eligible materials, CONTRACTOR shall provide current facility-specific Environmental Product Declarations (EPDs) of eligible materials and meet the State of California maximum limits for Global Warming Potential (GWP) as listed by the State's Department of General Services after project award. Additional information regarding GWP limits may be found at the following website:

<https://www.dgs.ca.gov/PD/Resources/Page-Content/Procurement-Division-Resources-List-Folder/Buy-Clean-California-Act>

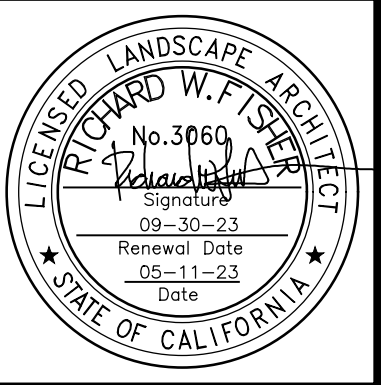
B. Eligible Materials:

- Steel: This includes structural steel (hot-rolled sections, hollow structural sections, and plates) and carbon steel reinforcement used in concrete or masonry.
- Flat glass
- Mineral wool board insulation
- Concrete

1.2 SUBMITTALS

A. Submitted facility-specific Environmental Product Declarations (EPD) must be a current Type III as defined by the International Organization for Standardization (ISO) Standard 14025, and has been 3rd Party verified following applicable Product Category Rules (PCRs). Credentials of 3rd Party showing them to be subject matter experts must be provided by the CONTRACTOR upon request. Minimum stage of coverage for EPDs shall consist of the production life cycle (i.e. product stage) or "cradle to gate". PCR shall be as identified by California Department of General Services for the Buy Clean California Act (BCCA).

B. The EPDs shall be submitted with each eligible material submittal for the product(s) under the technical specification sections for approval by the ENGINEER. Depending on the number of facilities, and product types, more than one (1) eligible material submittal may be required. Once approved, the CONTRACTOR must also provide a copy of the approved EPDs with the payment request to the INSPECTOR. Where a submittal is conditionally approved, pending submission of required EPD, the applicable restrictions as noted below shall apply.



CITY OF LOS ANGELES DEPARTMENT OF RECREATION & PARKS
CLIENT: DEPARTMENT OF RECREATION & PARKS
GENERAL MANAGER: [Name]
SHEET TITLE: LANDSCAPE SPECIFICATIONS, SHEET 1
PROJECT: RIO DE LOS ANGELES STATE PARK FIELDS MAINTENANCE IMPROVEMENTS PROJECT
ADDRESS: 1900 WEST SAN FERNANDO ROAD, LOS ANGELES, CA, 90039

NO. [] DATE: []
REVISION DESCRIPTION: []
CITY ENGINEER: [] DATE: []
DESIGN GROUP: []
ENGINEER: []
ARCHITECT: RICHARD W. FISHER, LANDSCAPE ARCHITECT I
DRAWN BY: ERNESTO GONZALEZ, LANDSCAPE ARCH. ASSOCIATE II
CHECKED BY: RICHARD W. FISHER, LANDSCAPE ARCHITECT I
APPROVED BY: []
CIP NO. G1188
INDEX NO. RP-300125

WORK ORDER NO. E1908951
FILE NO. 999
DRAWING NO. L001
SHEET 6 OF 100 SHEETS

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

Main drawing area containing sections: PART 1 - GENERAL, PART 2 - PRODUCTS (NOT USED), PART 3 - EXECUTION, SECTION 02 41 00 SITE DEMOLITION, SECTION 03 20 00 REINFORCEMENT STEEL, and various sub-sections like 1.1 DESCRIPTION, 1.2 RELATED WORK SPECIFIED ELSEWHERE, etc.

Vertical sidebar containing: CITY OF LOS ANGELES DEPARTMENT OF PUBLIC WORKS BUREAU OF ENGINEERING, project information (RP-300125), drawing information (L002), and various stamps and logos.

REVISION DATES (DESIGN STAGE ONLY)
A
B
C
D
E
F
G
H
J
K
L

Table with 16 columns and 16 rows. Column 1 contains revision dates (A-L). Column 2 contains requirements text. Column 3 contains 'SECTION 03 30 00 CAST IN PLACE CONCRETE'. Column 4 contains 'PART 1 - GENERAL' and 'PART 2 - PRODUCTS'. Column 5 contains '1.3 QUALITY ASSURANCE'. Column 6 contains '1.4 DELIVERY, STORAGE, AND HANDLING'. Column 7 contains '1.5 FIELD CONDITIONS'. Column 8 contains '1.6 JOINTS IN CONCRETE'. Column 9 contains '1.7 CONCRETE MIXTURES'. Column 10 contains '1.8 CONCRETE MIXING'. Column 11 contains '1.9 CONCRETE JOINT MATERIALS'. Column 12 contains '1.10 CONCRETE REINFORCEMENT INSTALLATION'. Column 13 contains '1.11 EXECUTION'. Column 14 contains '1.12 CLEANING AND PROTECTION'. Column 15 contains '1.13 FIELD QUALITY CONTROL'. Column 16 contains '1.14 QUALITY ASSURANCE'.

Engineering stamps and project information. Includes 'ENGINEERING CITY OF LOS ANGELES', 'BUREAU OF ENGINEERING', 'DEPARTMENT OF PUBLIC WORKS', 'CITY ENGINEER', 'DESIGN GROUP', 'ARCHITECT', 'DESIGNED BY', 'DRAWN BY', 'CHECKED BY', 'APPROVED BY', 'WORK ORDER NO. E1908951', 'FILE NO. 999', 'DRAWING NO. L003', 'SHEET 8 OF 100 SHEETS', 'INDEX NO. RP-300125', 'CIP NO. G1188', 'PROJECT: RIO DE LOS ANGELES STATE PARK FIELDS MAINTENANCE IMPROVEMENTS PROJECT', 'ADDRESS: 1900 WEST SAN FERNANDO ROAD, LOS ANGELES, CA, 90039'.

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D. Isolation joints in slabs-on-grade: after removing formwork, install joint-filler strips at slab junctions with vertical surfaces, such as column pedestals, foundation walls, grade beams, and other locations, as indicated.

1. Extend joint-filler strips full width and depth of joint, terminating not less than 1/2-inch or more than 1-inch below finished concrete surface where joint sealants are indicated.

E. Doweled expansion joints: shall be placed against previously constructed concrete structures or as indicated in the plans (303-5.4.2) and the applicable details. Install dowel bars and support assemblies at joints where indicated. Lubricate one-half of dowel length to prevent concrete bonding to one side of joint. Install per details.

3.3 CONCRETE PLACEMENT

A. Before placing concrete, verify that installation of formwork, reinforcement, and embedded items is complete and that required inspections are completed.

B. Deposit concrete continuously in such thickness that no new concrete is placed on concrete that has hardened enough to cause seams or planes of weakness. If a section cannot be placed continuously, provide construction joints as indicated.

- 1. Deposit concrete in horizontal layers of depth not to exceed formwork design pressures.
- 2. Maintain reinforcement in position on chairs during concrete placement.
- 3. Screed slab surfaces with a straight-edge and strike off to correct elevations.
- 4. Slope surfaces uniformly to drains where required, and as indicated on Contract Drawings.

3.4 FINISHING FLOORS AND SLABS

A. General: comply with ACI 302.1R recommendations for screeding, re-straightening, and finishing operations for concrete surfaces. Do not wet concrete surfaces.

B. Rotary float finish: consolidate surface with power-driven floats or by hand floating if area is small or inaccessible to power-driven floats. Re-straighten, cut down high spots, and fill low spots. Repeat float passes and re-straightening until surface is left with a uniform, smooth, granular texture. Apply rotary float finish only to surfaces indicated.

C. Broom finish: apply a broom finish to exterior concrete platforms, steps, ramps, and elsewhere as indicated.

1. Immediately after float finishing, slightly roughen the trafficked surface with fiber-bristle broom perpendicular to main traffic route. Match finish(es) in approved mock-up for each finish type.

3.5 MISCELLANEOUS CONCRETE ITEM INSTALLATION

A. Repairs and filling: fill in holes and openings left in concrete structures after work of other trades is in place unless otherwise indicated. Mix, place, and cure concrete, as specified, to blend with in-place construction. Provide other miscellaneous concrete filling indicated or required to complete the work.

B. Curbs: provide monolithic finish to interior curbs by stripping forms while concrete is still green and by steel-troweling surfaces to a hard, dense finish with corners, intersections, and terminations slightly rounded per details.

C. Equipment bases and foundations:

- 1. Verify locations, sizes, depths, and height above finish and of concrete bases with approved equipment provided and Contract Drawings.
- 2. Minimum compressive strength for bases and foundations shall be 4,500 PSI at 28 days unless otherwise noted. See structural plans and details.
- 3. Prior to pouring concrete, place and secure all anchorage devices. Use setting drawings, templates, diagrams, instructions, and directions furnished with items to be embedded. Install anchor bolts to elevations required for proper attachment to supported equipment.

3.6 CONCRETE PROTECTION AND CURING

A. General: protect freshly placed concrete from premature drying and excessive cold or hot temperatures. Comply with ACI 301 for hot-weather protection during curing. Cure formed concrete according to ACI 308.1.

B. Exposed un-formed surfaces: begin curing slabs, sidewalks, driveway approaches, walkways and other exposed surfaces immediately after finishing concrete.

3.7 JOINT SEALING

A. For expansion and isolation joints in concrete: remove dirt, debris, saw cuttings, curing compounds, etc. From joints; leave contact faces of joints clean and dry.

B. Install approved joint sealer according to manufacturer's written instructions and applicable details.

3.8 CONCRETE SURFACE REPAIRS

A. Defective concrete: repair and patch defective areas when directed by BCA Inspector. Remove and replace concrete that cannot be repaired and patched to ENGINEER's approval.

B. Repairing un-formed surfaces: test un-formed surfaces, such as floors and slabs, for finish and verify surface tolerances specified for each surface. Correct low and high areas. Test surfaces sloped to drain for trueness of slope and smoothness; use a sloped template.

3.9 FIELD QUALITY CONTROL

A. Special inspections: engage a LADBS Deputy Special Inspector and qualified testing to perform field tests and inspections and prepare test reports when required by Codes or Contract Drawings.

B. Required inspections: BCA Inspector shall inspect the following prior to concrete placement:

- 1. Steel reinforcement placement.
- 2. Verification of use of required design mixture.
- 3. Concrete placement, including conveying and depositing.

C. Samples: BCA Inspector will select and take samples for testing during the course of the work as considered necessary. Cost of testing will be paid for by the CITY.

D. Rejected materials: CONTRACTOR shall remove off the site all concrete below specified strength.

E. Cost of removal and retesting: CONTRACTOR shall pay for full cost of removal of rejected concrete and its replacement with concrete if specified strength and retesting.

**SECTION 31 00 00
GENERAL EARTHWORK**

PART 1 - GENERAL

1.1 SUMMARY

- A. Provide and execute grading work as indicated on the Contract Drawings or in the Project Manual including but not limited to the following:
 - 1. General excavating and trenching for various trades.
 - 2. General exterior grading and cutting.
 - 3. General excavating for site improvements.
 - 4. Filling, Backfilling and Compaction.
- B. RELATED WORK SPECIFIED ELSEWHERE
 - 1. Documents affecting work of this Section include, but are not necessarily limited to the GENERAL CONDITIONS, SUPPLEMENTARY CONDITIONS, DIVISION 1 - GENERAL REQUIREMENTS and other applicable Sections of the Project Manual.
 - 2. SITE DEMOLITION in Section 02 41 10.
 - 3. CAST IN PLACE CONCRETE in Section 03 30 00.

- 4. SITE CLEARING in Section 31 10 00.
- 5. IRRIGATION in Section 32 80 00
- 6. LANDSCAPE PLANTING in Section 32 90 00.

1.2 QUALITY ASSURANCE

A. Labor: Use adequate numbers of skilled laborers who are thoroughly trained and experienced in the necessary crafts and who are completely familiar with specified requirements and the methods needed for proper performance of the Work of this Section.

B. Equipment: Use equipment adequate in size, capacity, and numbers to accomplish the work of this Section in a timely manner.

C. Codes and Standards: Perform excavation work in compliance with applicable ordinance of governing authorities having jurisdiction including, but not limited to, the L. A. City Building Code and applicable Amendments; Division 1-DEPARTMENT OF INDUSTRIAL RELATIONS of Title 8 of the California Code of Regulations; Section 300 - EARTHWORK of SSPWC, as amended by Brownbook.

1. In addition to complying with Codes and Standards having jurisdiction, comply with directions of the GEOTECHNICAL ENGINEER.

2. "General Specifications for all Grading Plans" - Building and Safety form B-164 is hereby made a part of these plans.

D. Stormwater Pollution Control: The CONTRACTOR shall provide and employ the required measures for stormwater pollution control and water quality protection. The CONTRACTOR shall meet the standards of these requirements and reporting at all times.

E. Testing and Inspection Services: The CITY will provide qualified soil testing and inspection for quality control during earthwork operations. Testing shall be performed in accordance with the APPROVED SOIL REPORT and testing standards, the instructions of the GEOTECHNICAL ENGINEER and the applicable Sections of GENERAL CONDITIONS.

F. Geotechnical Engineer: The CITY will retain the services of a GEOTECHNICAL ENGINEER for the purpose of soil investigations and compaction testing, all the necessary inspections and observations, and certifications.

G. Survey: The CONTRACTOR shall employ the services of a California licensed surveyor for the purposes of survey control, layout, grade and cross-sections required to control work. Survey work shall conform to Section 01 71 23 - SURVEYING.

1.3 SUBMITTALS

Conform to provisions of DIVISION 1 - GENERAL REQUIREMENTS.

A. Sources of imported fill materials, if required.

B. Dewatering Plans, if required.

C. As required: California General Construction Activity Stormwater Permit, Waste Discharge Identification Number, Wet Weather Erosion Control Plan or Stormwater Pollution Prevention Plan.

D. Test Reports-Excavating: Contractor shall submit the following reports directly to the Los Angeles City Department of Building & Safety, prepared by the Soil Engineer and the testing service, with a copy to the CONSTRUCTION MANAGER.

- 1. Test reports on imported fill material as required by the GEOTECHNICAL ENGINEER, or for AGRONOMIC SUITABILITY if fill is to be placed in planted areas.
- 2. Verification of each footing subgrade.
- 3. Field density test reports.
- 4. One optimum moisture-maximum density curve for each type of soil encountered.
- 5. Other test reports as required by the GEOTECHNICAL ENGINEER and the Los Angeles City Department of Building & Safety.

1.4 PERMITS

A. Required: In addition to the requirements specified herein, and in applicable Sections of the GENERAL REQUIREMENTS of the Project Manual.

B. The Contractor shall perform all work in accordance with the permit requirements of the Los Angeles City Department of Building and Safety, including obtaining the grading permit; and if required, a hauling permit and bond, and making the required notification to the adjacent property owners; at no additional expense to the City.

C. Contractor shall furnish the BCA Inspector with a duplicate copy of OSHA excavation permit when required, and all other required permits prior to the start of the excavation work.

D. The Contractor shall obtain and pay for the California State Regional Water Quality Control Board (LARWQCB) Construction Water Discharge Permit if required

E. The Contractor shall obtain and pay for Calif General Construction Activity Stormwater Permit if required. The Contractor shall obtain Waste Discharge Identification Number after submitting the Stormwater Pollution Prevention Plan (SWPPP) pursuant to Section 91.106 of L.A.M.C. to the Los Angeles City Dept. Building and Safety for reviews.

F. The Contractor shall make all necessary notifications, obtain and pay for required permits and file manifests with the South Coast Air Quality Management District (S.C.A.Q.M.D.) when required.

1.5 JOB CONDITIONS

A. Required Work Coordination: The Contractor shall fully coordinate the work operations of this Section with that of other trades involved and with the ENGINEER to assure proper sequence of work, limitations, methods and time of work so as to minimize or avoid interference with the existing utilities as well as performance of work by the other Contractors. Contractor shall include minimum two weeks in the Construction Schedule to allow the Soil Engineer to prepare final Soil Report to be submitted to the Los Angeles City Department of Building and Safety Grading Division for final approval if the Soil Engineer is obtained by the City. The Contractor shall coordinate and arrange for all the inspections with the local authorized agencies and the Bureau of Contract Administration.

B. Trench Safety: Attention is directed to the provisions of Section 6705 of the Labor Code and Section 31 41 00 - SHORING concerning trench excavation safety plans when specified.

C. Air Pollution Control: The Contractor shall comply with all air pollution control rules, regulations, ordinances and statutes which apply to work performed pursuant to the Contract, including any air pollution control rules, regulations, ordinances and statutes, specified in Section 1107 of the Government Code.

1. 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.

D. Sound Control Requirements: The Contractor shall comply with all local sound control and noise level rules, regulations and ordinances which apply to any work performed pursuant to the Contract.

1. Each combustion engine, used for any purpose on the job or related to the job, shall be equipped with a muffler of a type recommended by the manufacturer. No internal combustion engine shall be operated on the project without said muffler.

E. Use of Explosives: The use of explosives is not permitted.

1.6 PROTECTIONS

A. General: Comply with provisions of Section 00309 - PROTECTION OF PERSONS AND PROPERTY AND RESTORATION OF EXISTING IMPROVEMENTS in GENERAL CONDITIONS. Protect and guard all excavations against damage to life, limb and property as prescribed by Los Angeles City Department of Building and Safety.

B. Protections of Persons and Property: Provide and install signs, lights and barricades at danger points on and off the job site to guard against accidents, etc.

- 1. Barricade open excavations occurring as part of this work and post with warning lights.
- 2. Protect all existing structures, utilities, sidewalks, pavements and other facilities to remain from damage caused by settlement, lateral movement, undermining, washout and other hazards created by earthwork operations.
- 3. See: Tree Protection, sheet L017 for addition requirements.

C. Existing Improvements: Protect against damage resulting from CONTRACTOR'S operations. Repair or replace damaged items to the full satisfaction of the CITY at no additional cost to the City.

D. Shoring, Cribbing and Lagging: Shall be installed where required by Code for safety of excavations and earth banks as necessary to prevent caving in, erosion or gulying of sides.

ENGINEERING
CITY OF LOS ANGELES

BUREAU OF ENGINEERING
CLIENT: DEPARTMENT OF RECREATION & PARKS
GENERAL MANAGER: RICHARD W. FISHER
SHEET TITLE: LANDSCAPE SPECIFICATIONS, SHEET 4
PROJECT: RIO DE LOS ANGELES STATE PARK FIELDS MAINTENANCE IMPROVEMENTS PROJECT
ADDRESS: 1900 WEST SAN FERNANDO ROAD, LOS ANGELES, CA, 90039

DEPARTMENT OF PUBLIC WORKS

CITY OF LOS ANGELES

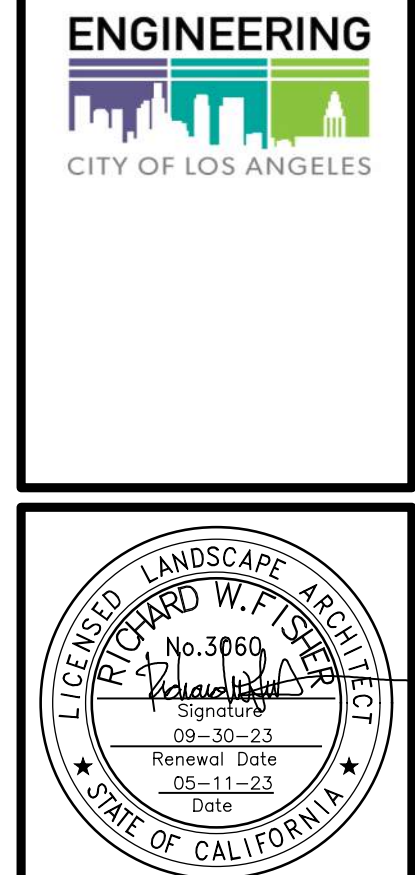
NO. _____ DATE _____
REVISION DESCRIPTION _____
CITY ENGINEER _____ DATE _____
DESIGN GROUP _____
ENGINEER: TED ALLEN, P.E., CITY ENGINEER
ARCHITECT: RICHARD W. FISHER, LANDSCAPE ARCHITECT I
DRAWN BY: ERNESTO GONZALEZ, LANDSCAPE ARCH. ASSOCIATE II
CHECKED BY: RICHARD W. FISHER, LANDSCAPE ARCHITECT I
APPROVED BY: _____

WORK ORDER NO. E1908951
FILE NO. 999
DRAWING NO. L004
SHEET 9 OF 100 SHEETS

CIP NO. G1188
INDEX NO. RP-300125

THIS PLAN WAS ELECTRONICALLY SIGNED AND STAMPED

1	2	3	4	5	6	7	8	9	10	11	12	13	14	15	16							
L	1.	CONTRACTOR shall be responsible for obtaining and paying for all shoring permits, shoring design and calculations of shoring, etc.	1.9	MATERIAL HANDLING	E.	Soil Cement: Use the soil-cement to form a dense, uniform mass conforming to the lines, grades and cross sections [shown on the Contract Drawings.] The soil cement shall be mixed, placed and compacted at least 95% of the relative compaction, in accordance with Section 301-3 of SSPWC and the instructions of the Soil Engineer.	1.	The existing soil beneath the temporary bleachers and restroom shall be removed to a depth of at least 30 inches below the bottom of each structure. The excavation shall extend laterally at least 24 inches beyond each edge of the structure.														
K	2.	Shoring shall be in accordance with requirements of with the latest Los Angeles City Building Code, Section 2811 and Safety Orders of State of California, Division of Industrial Safety, Title 8, Subchapter 4, Article 6, Sections 1540 and 1541.	A.	Delivery: All materials, tools, equipment, etc. to be delivered to the job site, in such a manner coordinated with progress of work of this Section.	F.	Drainage Fill Material: Clean gravel conforming to ASTM C33 - SPECIFICATION FOR CONCRETE AGGREGATES, graded as follows:	2.	The existing soil beneath driveway and parking areas shall be removed to a depth of at least 18 inches below the pavement section. The excavation shall extend laterally at least 24 inches beyond each edge of the pavement.														
J	3.	Upon completion of project or when no longer needed or otherwise directed by the authority having jurisdiction, CONTRACTOR shall remove all such shoring from the job site.	B.	Material Storage: Stockpile satisfactory excavated materials where directed, until required for backfill or dispose of in accordance with Section 300-2.6 - SURPLUS MATERIALS of SSPWC. Place, grade and shape stockpiles for proper drainage.		<table border="1"> <thead> <tr> <th>Sieve Size</th><th>% Passing Sieve</th></tr> </thead> <tbody> <tr><td>1 ½ inch</td><td>90 to 100%</td></tr> <tr><td>¾ inch</td><td>45 to 60%</td></tr> <tr><td>#4</td><td>35 to 50%</td></tr> <tr><td>#16</td><td>20 to 40%</td></tr> <tr><td>#50</td><td>5 to 20%</td></tr> <tr><td>#100</td><td>0 to 5%</td></tr> </tbody> </table>	Sieve Size	% Passing Sieve	1 ½ inch	90 to 100%	¾ inch	45 to 60%	#4	35 to 50%	#16	20 to 40%	#50	5 to 20%	#100	0 to 5%	3.	The soil beneath non-structural footings (planters, fences, and non-retaining site walls) shall be removed to a depth of 24 inches below the bottom of footing. The excavation shall extend laterally at least 2 feet beyond the edge of the footing or to the property boundary, whichever is less.
Sieve Size	% Passing Sieve																					
1 ½ inch	90 to 100%																					
¾ inch	45 to 60%																					
#4	35 to 50%																					
#16	20 to 40%																					
#50	5 to 20%																					
#100	0 to 5%																					
H	E.	Water: Divert or pump out of all excavations until concrete and other items are placed therein, forms removed, and backfilling is completed. The CONTRACTOR shall provide a means for solids removal before discharging the water. Comply with all applicable Codes and Regulations.		<ol style="list-style-type: none"> Locate and retain soil materials away from edge of excavations. Do not store within drip line of trees indicated to remain. Dispose of excess soil material and waste materials as herein specified. 			4.	The existing soil beneath the soccer field shall be removed to a depth of at least 12 inches below the cement-treated aggregate base layer. The excavation shall extend laterally at least 2 feet beyond each edge of the field.														
G	F.	Existing Utilities: Utilities shown on the drawings are shown pursuant to a search of available records and are shown as a matter of information and not as a matter of fact. Conforming with GENERAL REQUIREMENTS and other Sections of the Project Manual, the CONTRACTOR shall locate existing underground utilities in areas of work. If utilities are to remain in place, provide adequate means of support and protection during earthwork operations.	PART 2 – PRODUCTS	2.1 SOIL MATERIALS	2.2 TOPSOIL		5.	If fill material is encountered below the required depth of excavation, CONTRACTOR shall notify the GEOTECHNICAL ENGINEER immediately.														
F	1.	Should uncharted or incorrectly charted piping or other utilities be encountered during excavation, CONTRACTOR shall notify the CONSTRUCTION MANAGER immediately for direction. CONTRACTOR shall cooperate with CITY and utility companies in keeping respective services and facilities in operation. Repair damaged utilities to satisfaction of utility Company.	A.	Suitable Excavated Material: Fill materials may consist of the existing <u>sandy</u> fill onsite or approved import soil. <i>The existing clayey fill may only be reused beneath the proposed soccer fields.</i> Import soil shall be predominantly granular (minimum 80% passing the No. 4 sieve and between 10% and 35% passing the No. 200 sieve), non-expansive (EI less than 20). All fill shall be free of organic or inorganic debris, contamination and materials with any dimension larger than 3 inches.	A.	The top 24" of any placed fill in proposed landscape planting areas shall be approved topsoil. Where possible, obtain or re-use stockpiled "CLASS C" topsoil from sources within the project limits.	B.	Subgrade Preparation: Excavation bottoms shall be scarified to a depth of at least 6 inches, moisture conditioned to within 3 percent above the optimum moisture content, and compacted to at least 90 percent relative compaction (RC), as determined by ASTM Test Method D1557. Excavation bottoms shall be approved by a GED representative and the LADBS, Grading inspector prior to backfill														
E	2.	Do not interrupt existing utilities serving facilities occupied and used by CITY and others, during occupied hours, except when permitted in writing by the PROJECT MANAGER and then only after acceptable temporary utility services have been provided.	B.	Fill Material: Furnish <u>imported earth material</u> as necessary if specified in the contract requirements or if the amount of suitable earth materials obtained from the job site excavations is not sufficient to properly construct the required fill, subject to the approval of the GEOTECHNICAL ENGINEER prior to use. The GED shall be notified a minimum of 3 working days prior to scheduled delivery to the jobsite.	B.	If required by or indicated on the Landscape Drawings or specifications, CONTRACTOR shall provide imported "CLASS A" topsoil (800-1.1.2). Imported "Class A" topsoil shall meet the following additional requirements.	C.	Backfill and Recompanction: Fill material shall be placed in loose lifts not exceeding 8 inches in thickness, moisture-conditioned to between 0 and 3 percent above the optimum moisture content and mechanically compacted. Import fill beneath the proposed restrooms and bleachers shall be compacted to at least 95 percent RC, as determined by ASTM Test Method D1557. Crushed aggregate base (CAB), crushed miscellaneous base (CMB), and the upper 12 inches of compacted fill beneath the pavement section shall also be compacted to at least 95 percent RC. All remaining compacted fill, including both onsite and import sources, shall be compacted to at least 90 percent RC.														
D	3.	Provide a minimum of 48-hour notice to the PROJECT MANAGER and receive written notice to proceed before interrupting any utility. Obtain clearance and notify all utility companies in the area and call Underground Service Alert by calling (800) 422-4133. Deliver utility clearance ticket number to the BCA INSPECTOR prior to the start of any work.		<ol style="list-style-type: none"> Submit imported fill material samples and testing results for the ENGINEER'S approval prior to importing to the job site in accordance with Section 300-5 BORROW EXCAVATION OF SSPWC. Import soil shall be predominantly granula (minimum 80% passing the No. 4 sieve and between 10% and 35% passing the No. 200 sieve), non-expansive (EI less than 20). All fill shall be free of organic or inorganic debris, contamination and materials with any dimension larger than 3 inches. Where fill material exhibits a wide variation in consistency, the ENGINEER may require blending to stabilize and upgrade the material as directed by the GEOTECHNICAL ENGINEER. In landscape planting areas, the top 24" of fill shall be "Class A" topsoil, and not contain anything that would prevent normal plant growth (800-1.1.2). See LANDSCAPE PLANTING, Section 32 90 00 for additional information. 	1.	Gradation Limits: Sand - 50-80 percent, clay - 20 percent maximum, and silt - 30 percent maximum. The sand, clay and silt gradation limits shall be as defined in ASTM D-422 – TEST METHOD FOR PARTICLE – SIZE ANALYSIS OF SOILS.	D.	Fill Certification: Upon successful completion of fill placement and compaction, the GED will issue a Compaction Certification for the fill. Unless approved by the Building Inspector during construction, the Contractor shall not pour footings until an approval letter is issued by the LADBS, Grading Division for the Compaction Certification. The contractor may excavate in compacted fill for foundation elements before the fill certification approval letter is issued but does so at his/her own risk.														
C	4.	Demolish and completely remove from site existing underground utilities indicated to be removed. Coordinate with utility companies for shut-off of service if lines are active.	C.	Base Material: "Crushed Miscellaneous Base" (CMB), in accordance with requirements in Section 200-2.4 of the 2021 Edition Greenbook. In addition, CMB shall conform to the "Fine" Gradation as outlined in Table 200-2.4.2	C.	All imported "Class A" Topsoil shall be from a source outside the limits of the project selected by the Contractor and in compliance with Inspection requirements specified in General Conditions. Within 90 days after Notice-To-Proceed, CONTRACTOR shall submit the proposed source of topsoil to the ENGINEER for approval. After the ENGINEER or authorized representative makes an initial inspection at the site of the proposed imported material, the Contractor shall perform the required tests as deemed necessary to determine that the material meets the requirements. The Contractor shall submit to the ENGINEER a written report of a soil testing laboratory registered by the State of California for agricultural soil evaluation which states that the proposed source complies with this Section, and or proposed soil amendments as needed to meet compliance. After the testing report and proposed soil amendments are reviewed by the ENGINEER, the CONTRACTOR shall comply with all the recommendations of the soil testing laboratory and add any additional soil amendments necessary to achieve proper nutrient levels to support a healthy plant growth to the imported topsoil at the time of placement, at no additional cost to the City.	E.	Dewatering:														
B	1.7 INSPECTION		D.	Pipe Bedding and Trench Backfill Material:	2.3 OTHER MATERIALS		1.	Remove all water, including rainwater, encountered during trench and sub-grade work to an approved location by pumps, drains, and other approved methods.														
A	A.	Required: All work and materials are subject to inspection and approval by the PROJECT MANAGER or ENGINEER. Any work done without proper inspection will be subject to rejection per Section 2-11 of the Standard Specifications for Public Works Construction. The Contractor shall notify the Bureau of Contract Administration (BCA) INSPECTOR and PROJECT MANAGER three (3) days prior to requested date of inspection of the following for approval:		<ol style="list-style-type: none"> Use clean earth materials previously removed from job site excavations, or use approved imported fill materials as above specified, free from clay, rock or gravel larger than 1-inches for utility trenches, subject to the Soil Engineer's approval prior to use. For sanitary sewer pipe, use Case I bedding material to 12-inch above top of pipe, with the balance of backfill to be approved clean earth materials. For storm drain piping, use approved washed sand to 4-inches above top of pipe, with the balance of backfill to be approved clean earth materials. For domestic water pipe, use approved washed sand to 4-inches above top of pipe, with the balance of backfill to be approved clean earth materials. For electrical conduits, see Electrical Plans. For utility service connections, provide bedding and backfill material in accordance with utility company's instructions. For the landscape irrigation piping, use clean earth materials previously removed from job site excavations, or use approved imported fill materials as specified above, free from clay, rock or gravel larger than 1-inches diameter. Conforming to applicable Sections of the Project Manual for the pipe bedding widths and depths. 	2.3 OTHER MATERIALS		2.	Keep excavations and site construction area free from water.														
	1.	All excavations and trenches shall be inspected by the BCA INSPECTOR, Los Angeles City Building and Safety Inspector, and the GEOTECHNICAL ENGINEER before filling, backfilling and/or other subsequent work is placed therein. Earthwork backfill for structures shall comply with requirements of Section 300-3.5 - STRUCTURAL BACKFILL OF SSPWC and/or requirements in the Project Manual.				2.3 OTHER MATERIALS		3.	Moisture Control: Where subgrade or layer of soil material must be moisture conditioned before compaction, uniformly apply water to surface of subgrade, or layer of soil material. Apply water in manner to prevent free water appearing on surface during or subsequent to compaction operations.													
	2.	ROUGH GRADING: When forms have been set, they shall be reviewed by ENGINEER to verify alignment and grade. Offsets or vertical controls shall be verifiable in the field, or be provided in grade sheet form, and submitted to the CONSTRUCTION MANAGER for approval prior to the inspection.						4.	Remove and replace, or scarify and air dry, soil material that is too wet to permit compaction to specified density.													
	3.	FINISH GRADE REVIEW: For all finish grades in planting areas following rolling in turf areas and prior to landscape container planting.						5.	Soil material that has been removed because it is too wet to permit compaction may be stockpiled or spread and allowed to dry. Assist drying by disking, harrowing, or pulverizing until moisture content is reduced to a satisfactory value.													
	1.8 GEOTECHNICAL INFORMATION							6.	Rework: Any previously compacted or tested subgrade and fill material, which are affected or disturbed, in the opinion of the GEOTECHNICAL ENGINEER, by the inclemency of the weather such as rains, floods, earthquake or others shall be reworked, retested and re-inspected at no additional cost to the City.													
		The GEOTECHNICAL REPORT No. 22-066 dated September 20, 2022, addendum report dated October 05, 2022 and LADBS SOILS REPORT APPROVAL LETTER LOG# 124151 dated December 28, 2022 is a part of Project Manual. CONTRACTOR shall comply with all Soils Report recommendations specified and other instruction directed by the GEOTECHNICAL ENGINEER. In case of conflicts between other part of the Project Manual and Soils Report the most restrictive condition shall govern unless otherwise approved by the Soil Engineer. (Soil Report is provided in Section 01112 – DESCRIPTION OF WORK of the Project Manual.)						7.														



THIS PLAN WAS ELECTRONICALLY SIGNED AND STAMPED

BUREAU OF ENGINEERING

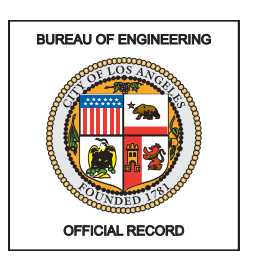
CLIENT: DEPARTMENT OF RECREATION & PARKS
GENERAL MANAGER: _____
SHEET TITLE: LANDSCAPE SPECIFICATIONS, SHEET 5
PROJECT: RIO DE LOS ANGELES STATE PARK FIELDS MAINTENANCE IMPROVEMENTS PROJECT
ADDRESS: 1900 WEST SAN FERNANDO ROAD, LOS ANGELES, CA, 90039

CITY OF LOS ANGELES DEPARTMENT OF PUBLIC WORKS

CITY ENGINEER: TED ALLEN, P.E., CITY ENGINEER
DATE: _____
DESIGN GROUP: _____
ENGINEER: _____
ARCHITECT: _____
DESIGNED BY: RICHARD W. FISHER, LANDSCAPE ARCHITECT I
DRAWN BY: ERNESTO GONZALEZ, LANDSCAPE ARCH. ASSOCIATE II
CHECKED BY: RICHARD W. FISHER, LANDSCAPE ARCHITECT I
APPROVED BY: _____

WORK ORDER NO: E1908951
FILE NO: 999
DRAWING NO: L005
SHEET 10 OF 100 SHEETS

INDEX NO: RP-300125
CIP NO: G1188



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

E. Inspection Required: Prior to placing base material, concrete or other materials.

F. Grading for Demolition Jobs: To [specified elevations] or elevations of existing sidewalks, adjacent property lines or surfaces immediately adjacent to the sites. Make all grades straight-line from any point to any other perimeter point.

G. Grading for New Asphalt Concrete Paving:

1. Rough: Cut and fill to be left sufficiently high to require cutting by fine grading and preparation of the surface for placement of he required select base material to thickness [noted on the Contract Drawings] or matching that of adjacent existing select base materials.
2. Fine: To exact elevations necessary for required new paving and paving repairs.
3. Testing and Inspection Required: Prior to placing of select base and asphalt paving materials.

3.5 EXCAVATING

A. General:

1. Excavation consists of the removal and disposal of materials necessary to establish required grade elevations and certified compacted fill for new construction pursuant to Section 300-2 UNCLASSIFIED EXCAVATION of SSPWC.
2. Excavated materials suitable for use as fill and/or backfill to be stockpiled where directed by the PROJECT MANAGER.
3. Non-approved and excess excavated materials to be legally removed and disposed of from the job site at the CONTRACTOR'S expense.
4. Access to Trenches: Conform to Section 306-1.1.4 - ACCESS TO TRENCHES of SSPWC. Provide safe and suitable ladders, which project 2 feet above the top of the trench. It shall be provided for all trenches over 4 feet in depth. Minimum one ladder shall be provided for each 50 feet of open trench or fraction thereof and be so located that the workers in the trench need not move more than 25 feet to a ladder.
5. Encountered Existing Underground Piping or Conduits: Immediately stop the trench operations at the point of encounter, notify the PROJECT MANAGER of such condition and submit support drawings to the ENGINEER for approval. The support drawings shall be in conformance with the Los Angeles City Bureau of Engineering Standard Plans S-253, SUPPORTS FOR STORM DRAIN AND SEWER PIPES ACROSS TRENCHES, latest edition; CAL/OSHA and the utility company's requirements.

B. For Site Improvements:

1. Masonry Yard Walls: As necessary for required footing and setting of forms for concrete work, [to depth indicated].
2. For Planter Curbs: To exact curb limit, without excessive removal of adjacent paving or subgrade for new paving.
3. For Concrete and Asphaltic Site Improvements such as concrete and/or asphalt pavements, concrete walkways, driveways aprons, concrete curb and gutter: Excavate to exact limits of such work without excessive removal of existing subgrade. Scarify and compact top [6 inches] of subgrade and compact at 95% relative density, unless otherwise indicated in the APPROVED SOILS REPORT.

C. For Walls (including wall footings): Width not less than 18-in. from face of wall and sufficient for necessary forms, cribbing, bracing, inspection, and application for watering on walls, where required.

D. Conduit and Piping: Conforming to the requirements as specified on the drawings, Los Angeles City Plumbing Code, SSPWC and other sections of the Project Manual. Any piping with 8 feet or less cover or backfill, Case 1 Bedding Installations of Los Angeles City Bureau of Engineering Standard Plan S-251, latest edition, shall be used for all piping laying unless otherwise specified on the drawings or noted.

E. Depth and Width of Trench for Storm Drainage Piping: To depth necessary for installation of piping and construction of catch basin in accordance with requirements of Section 02545 - STORM DRAIN SYSTEM, PLUMBING Section in Division 15 of the Project Manual and as noted on the Contract Drawings. Provide minimum [7 1/2 inches] [12 inches] side clearance from side of the piping. Make the sides vertical and the bottoms smooth, firm, level or uniformly sloped as required, slope to not exceed a downward slope of two horizontal to one vertical in a manner to prevent formation of water pockets in the pipe. For backfill or earth cover exceeded 8 feet, refer to Los Angeles City Bureau of Engineering Standard Plan S-251, latest edition, for maximum allowable trench width and bedding material. Unless specified otherwise, provide minimum 2 inches washed sand bedding below the pipe barrel.

F. Depth and Width of Trench for Plumbing Piping: As necessary for complete installations of the piping, fixtures and controls; provide minimum [7 1/2 inches] [12 inches] side clearance from side of the piping; make the sides vertical and bottoms smooth, firm, level or slopes, as required by the code for proper drainage. [Final elevations shown on Contract Drawings] shall mean the invented pipe elevations. Pipe thickness and bedding thickness shall be used in determining trench depths. Conform to the requirements as specified in the Los Angeles City Plumbing Code and in Division 15 of the Project Manual. For backfill or earth cover exceeded 8 feet, refer to Los Angeles City Bureau of Engineering Standard Plan S-251, latest edition, for maximum allowable trench width and bedding material. Unless specified otherwise, provide minimum 4 inches washed sand bedding below the pipe barrel. If final elevation is not shown on contract drawings, place all piping to a depth no less than 24 inches.

G. Depth and Width of Trench for Electrical Conduit and Pull Box: As necessary for complete installation of the electrical conduits and pull box, unless specified otherwise, provide minimum 7 1/2 inches side clearance from the side of the conduit and pull box and 2 inches sand bedding in accordance with the Contract Drawings and requirements of the Utility Company. Conduit shall be placed to a depth of not less than 24 inches and 36 inches under the driveway.

H. Depth and Width of Trench for Landscape Irrigation Piping: As necessary for complete installations of the piping fixtures and controls; provide a minimum of 7 1/2 inches side clearance from the side of the piping and 4 inches washed sand bedding. Depth of piping shall be conformance with Section 02810 – IRRIGATION SYSTEMS of the Project Manual. All trenches for electrical conduit and wiring shall be in accordance with requirements listed hereinbefore.

I. Corrections: Required of all unauthorized excavations made below indicated depths, as recommended by the Soil Engineer at no added cost to the City.

3.6 FILLING

A. General: Fill materials may consist of the existing sandy fill onsite or approved import soil. Import soil shall be predominantly granular (minimum 80% passing the No. 4 sieve and between 10% and 35% passing the No. 200 sieve), non-expansive (EI less than 20). All fill shall be free of organic or inorganic debris, contamination and materials with any dimension larger than 3 inches. Proposed import soil shall be reviewed by the GED for approval prior to delivery to the job site. The GED shall be notified a minimum of 3 working days prior to scheduled delivery to the site.

B. Fill material shall be placed in loose lifts not exceeding 8 inches in thickness, moisture-conditioned to between 0 and 3 percent above the optimum moisture content and mechanically compacted. Import fill beneath the proposed restrooms and bleachers shall be compacted to at least 95% relative compaction (RC). Crushed Aggregate Base (CAB), Crushed Miscellaneous Base (CMB), and upper 12 inches of compacted fill beneath the pavement section shall also be compacted to at least 95% RC. All remaining

C. Voids resulting from site-clearing operations or demolition operations shall be backfilled with compacted fill.

D. Fill placement and compaction shall be observed and tested by a certified compaction testing agency working under the direct supervision of the GED. Compacted fill soils shall be kept moist, (at or slightly above the specified moisture content at the time of compaction) but not flooded, until covered with subsequent construction. If compacted fill soils become softened or disturbed, they shall be replaced or recompacted at the discretion of the GED before additional fill or construction is placed. Certification and inspection approvals for compromised soils are void and invalid.

3.7 BACKFILLING

A. Placement of Backfill: Controlled backfill shall be moisture conditioned, placed, and compacted in accordance with the recommendations in Section 6.1.6 of the Geotechnical Report.

B. Pipe Bedding and Backfill Over Underground Piping and Conduit: Place bedding and backfill material in conformance with provisions specified [Subsection 2.1 (D) herein] and in Section 02545 - STORM DRAIN SYSTEM, Division 15 - PLUMBING and Division 16 – ELECTRICAL of the Project Manual. Do not place backfill materials until the Inspector has inspected and approved the pipe installation. The bedding shall be compacted and shaped to form a firm base for the pipe and conduit. Controlled backfill shall be moisture conditioned, placed, and compacted in accordance with the recommendations in Section 6.1.6 of the Geotechnical Report.

C. For Backfill Against Retaining Walls: Do not place until such walls have gained sufficient strength to resist backfill loads and backside of such walls have been properly waterproofed to details and specifications without prior approval of the BCA INSPECTOR. Bring backfill up to finish grade or to subgrade for paving as indicated on the drawings.

D. Slurry Backfill: In areas where specified and/or around the utilities, vaults or other structures where the Soil Engineer determines that it is not practical to attain the required compaction by the mechanical methods or water densification, provide a trench slurry backfill 60-E0.7 (Class 100-E-100).

E. Controlled Low Strength Material: Controlled Low Strength Material should be in accordance with the LADBS' requirements, as outlined in their Information Bulletin P/BC 2020-121 dated January 1, 2020

3.8 DISPOSAL OF EXCESS AND WASTE MATERIALS

A. Removal from City's Property: Remove waste materials, including unacceptable excavated material, trash and debris, and dispose of it off City's property in a legal manner and to conform with the requirements in Section 01572 – CONSTRUCTION AND DEMOLITION WASTE MANAGEMENT of Division 1 - General Requirement

B. Provide written consent of the owner of the property upon which the surplus material is to be deposited, pursuant to Section 01572 – CONSTRUCTION AND DEMOLITION WASTE MANAGEMENT specified above and Section 300-26 - SURPLUS MATERIAL of SSPWC.

SECTION 31 10 00
SITE CLEARING AND DEMOLITION

PART 1 - GENERAL

1.1 DESCRIPTION
Perform all site clearing and demolition on the job site as indicated on the Contract Drawings.

A. Demolition shall include the removal and disposal of all constructed site features designated on the Contract Drawings for removal, including all below-ground components such as footings, etc.

B. Site clearing shall consist of removing all vegetation such as trees, roots, stumps, shrubs, brush, limbs, and stone, boulders, wood and other vegetative growth from the ground surface. Clearing shall also include the removal and disposal of trash piles, rubbish, debris, etc.

C. CONTRACTOR shall furnish all tools, equipment materials and supplies and shall perform all labor to complete the work associated with removal of all designated natural and artificial material from the areas of work as indicated in the contract documents.

PART 2 - PRODUCTS

2.1 MATERIALS

A. Provide materials not specifically described but required for completion of the work of this section as selected by the CONTRACTOR subject to the approval of the ENGINEER.

PART 3 - EXECUTION

3.1 SITE CONDITIONS

A. Examine the job site and conditions under which work of this section will be performed. Correct conditions detrimental to timely and proper site-clearing operations, as directed by the ENGINEER. Do not proceed until such detrimental conditions have been corrected.

3.2 PROTECTION

A. Protect existing trees and shrubs indicated to remain in the Contract Drawings per tree protection requirements in sheets L017.

1. Prior to commencement of site clearing work, all Tree Protection fencing shall be installed and approved by the ENGINEER.

3.3 SITE CLEARING AND GRUBBING

A. General:

1. For drawing clarity, not all trees, shrubs, brush, grass, weeds, or exact amount of trash or debris are shown on the drawings. CONTRACTOR shall carefully study the Contract Drawings and visit the job site and verify the extent of the work to be done prior to bidding.
2. 48 hours prior to commencement of clearing, grubbing and stripping operations, the CONTRACTOR shall request a site meeting to include the BCA inspector, PROJECT MANAGER, project ENGINEER and other CITY staff as designated by the PROJECT MANAGER to review and clearly mark all existing vegetation to remain, and to mark the extents of any required tree protection fencing.

B. Site clearing operations

1. Remove all surface vegetation indicated on the Contract Drawings for removal. Remove all roots, and stumps and other undesirable materials to a depth of at least (2) feet below existing ground surface.

2. Remove all concrete and masonry debris, including footings.

3. Remove all existing rubbish and debris or material resulting from work operations of this section as soon as possible and dispose of properly per general requirements.

4. Where active utility lines need to be capped or plugged, perform such work in accordance with requirements of the utility company or government agency having jurisdiction and conform to relevant provisions of the general requirements.

5. Existing utility services to remaining structures are to be maintained at all times.

3.4 STRIPPING

A. Stripping shall include the removal and disposal of all surface organic sod, grass and grass roots, topsoil and other objectionable material remaining after clearing and grubbing from the areas designated in the Contract Drawings. The depth of stripping shall be as shown on the drawings and/or specified herein.

B. Prior to beginning any excavation or fill, strip the existing topsoil to a depth of 12" or as sufficient to remove all organic material, and stockpile for future use. In general, topsoil shall be removed where structures are to be built, trenches dug, and roads, parking lots, walks, and similar improvements constructed within the areas presently covered with topsoil.

3.5 TOPSOIL

A. If on site topsoil is specified for reuse, stockpile topsoil in an area clear of new construction or where directed by the ENGINEER or the CONSTRUCTION MANAGER.

B. Maintain topsoil stockpiles in a manner which will not obstruct the natural flow of drainage.

1. Maintain the stockpiled topsoil free from debris and trash.
2. Keep the stockpiled topsoil moist to prevent drying out and creating a dusts source.
3. Place and compact topsoil backfill in the planting areas where designated on Contract Drawings. See section landscape planting for amendment requirements.

3.6 REMOVAL AND DISPOSAL OF CLEARING AND GRUBBING DEBRIS

A. General: all undesirable materials removed during site clearing and demolition shall be disposed of per general requirements. No accumulation of flammable material shall remain inside the limit of work.

3.7 STORAGE OF MATERIALS AT THE JOB-SITE

A. Storage of removed materials is not permitted beyond brief accumulation awaiting pick up by removal trucks. Delays in the removal of site-clearing materials from the job site shall be subject to the approval of the CONSTRUCTION MANAGER or the BCA inspector.

SECTION 32 12 16
ASPHALT PAVING AND RESURFACING

PART 1 - GENERAL

1.1 DESCRIPTION

A. Provide all work indicated on the drawings and in other sections of the project manual; including but not limited to:

1. Asphalt concrete paving.
2. Asphalt concrete paving repairs.
3. Seal coating.
4. Concrete wheel bumpers.
5. Parking lot striping and disabled symbol marking.
6. Disabled parking accessible signage.

1.2 SUBMITTALS

A. Asphaltic concrete:

ENGINEERING
CITY OF LOS ANGELES

LANDSCAPE ARCHITECT
No. 3660
Richard W. Fisher
5/18/2023
05-11-23

BUREAU OF ENGINEERING
CLIENT: DEPARTMENT OF RECREATION & PARKS
GENERAL MANAGER:
SHEET TITLE: LANDSCAPE SPECIFICATIONS, SHEET 6
PROJECT: RIO DE LOS ANGELES STATE PARK FIELDS MAINTENANCE IMPROVEMENTS PROJECT
ADDRESS: 1900 WEST SAN FERNANDO ROAD, LOS ANGELES, CA, 90039

DEPARTMENT OF PUBLIC WORKS
CITY ENGINEER: TED ALLEN, P.E., CITY ENGINEER
DESIGNED BY: RICHARD W. FISHER, LANDSCAPE ARCHITECT I
DRAWN BY: ERNESTO GONZALEZ, LANDSCAPE ARCH. ASSOCIATE II
CHECKED BY: RICHARD W. FISHER, LANDSCAPE ARCHITECT I
APPROVED BY:

CITY OF LOS ANGELES
WORK ORDER NO: E1908951
FILE NO: 999
DRAWING NO: L006
SHEET 11 OF 100 SHEETS

INDEX NO. RP-300125
CIP NO. G1188

BUREAU OF ENGINEERING
OFFICIAL RECORD

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

Grid with columns 1-16 and rows A-L. Contains technical specifications for asphalt concrete materials, seal coating, wheel bumpers, and parking lot striping.

Vertical sidebar containing: ENGINEERING CITY OF LOS ANGELES logo, LICENSED LANDSCAPE ARCHITECT RICHARD W.F. FISHER, BUREAU OF ENGINEERING, DEPARTMENT OF PUBLIC WORKS, and various project details like RP-300125 and G1188.

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

Main drawing area containing sections: 2.4 VISUAL INSPECTION, 2.5 SAMPLING AND TESTING, 2.6 REJECTION, 2.7 EXPENSE OF TESTS, PART 3 - EXECUTION, SECTION 32 15 40 STABILIZED CRUSHED AGGREGATE PAVING, PART 1 - GENERAL, PART 2 - PRODUCTS, 2.1 MATERIALS, SECTION 32 31 13 CHAIN LINK FENCING AND GATES, PART 1 - GENERAL, PART 3 - EXECUTION, 3.1 PREPARATION OF SUBGRADE, 3.2 PRE-BLENDED ORGANIC-LOCK™ AGGREGATE SURFACING, 3.3 SUBMITTALS.

Vertical sidebar containing: ENGINEERING CITY OF LOS ANGELES logo, LICENSED LANDSCAPE ARCHITECT RICHARD W.F. FISHER, BUREAU OF ENGINEERING, DEPARTMENT OF PUBLIC WORKS, CITY OF LOS ANGELES, PROJECT: LANDSCAPE SPECIFICATIONS, SHEET 8, RP-300125, INDEX NO. G1188, and various signature and date fields.

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

Table with 16 columns and 16 rows (A-L). Contains technical specifications for gate hardware, materials, and installation procedures. Includes sections like 'PART 2 - PRODUCTS AND OPERATIONS', 'PART 3 - EXECUTION', and 'PART 1 - GENERAL'.

Vertical sidebar containing: ENGINEERING CITY OF LOS ANGELES logo, LICENSED LANDSCAPE ARCHITECT seal for Richard W.F. Fisher, CLIENT/DEPARTMENT OF RECREATION & PARKS information, SHEET TITLE: LANDSCAPE SPECIFICATIONS, SHEET 9, PROJECT: RIO DE LOS ANGELES STATE PARK FIELDS MAINTENANCE IMPROVEMENTS PROJECT, ADDRESS: 1900 WEST SAN FERNANDO ROAD, LOS ANGELES, CA, 90039, CIP NO. G1188, INDEX NO. RP-300125, CITY ENGINEER: TED ALLEN, P.E., CITY ENGINEER DESIGN GROUP, ENGINEER: RICHARD W. FISHER, LANDSCAPE ARCHITECT I, ARCHITECT: ERNESTO GONZALEZ, LANDSCAPE ARCH. ASSOCIATE II, DRAWN BY: RICHARD W. FISHER, LANDSCAPE ARCHITECT I, CHECKED BY: RICHARD W. FISHER, LANDSCAPE ARCHITECT I, APPROVED BY: [Signature], WORK ORDER NO. E1908951, FILE NO. 999, DRAWING NO. L009, SHEET 14 OF 100 SHEETS.

4. Irrigation Head Adjustment:

- a. When all irrigation heads are installed and the irrigation system is operating, adjust and balance each section or unit with all section control valves fully open to obtain uniform 100% head-to-head coverage.
b. Adjust irrigation heads having adjustable pin nozzles, screws or orifices to provide optimum distribution of water over the coverage pattern.

- h. Control wire routing
i. Quick coupling valves
j. Lightning protection (rod, plate, etc.)
k. Pull boxes
l. Irrigation controllers
m. Backflow prevention units

C. Existing Plant Materials: Protect all existing plant materials, not designated for removal or modification, in place against damage resulting from work of this Contract.

4. Non-Selective Herbicide: Shall be Finale™, by BASF, or an approved equal. All herbicides, when required, shall be specified and applied by a licensed Pest Control Advisor in a manner consistent with the manufacturer's product labelling.

5. Pre-Emergent Herbicide: Shall be Specticle G Pre Emergent Granular Herbicide, by Bayer Environmental Sciences, or an approved equal applied at the rate of 2.3 lb./1000 sf.

6. Granular Humic Acid Soil Conditioner: Shall be LIVE EARTH HUMATE SOIL CONDITIONER [PLUS GYPSUM] or Tri-C Humate [Tri-C Humate Plus with Gypsum] or approved equal.

7. Soil Penetrant: Shall be "Ground Breaker" by Green As It Gets, Inc. or approved equal. Soil penetrant shall contain organic yucca and kelp extracts.

8. Organic Soil Amendment: "Type 1" organic soil amendment shall be a relatively dry and friable fine-textured organic composite that is well-composted and nitrogen stabilized, derived from composted greenwaste or processed wood products, and free of foreign matter including animal waste and any viable plant, tree or weed seed.

All Organic Soil Amendment shall conform with the following criteria:

- a. The pH of the material shall be between 6 to 7.5.
b. Salinity: material shall have a maximum saturation extract conductivity of 2.50 millisiemens per centimeter.
c. Boron content of the saturated extract shall be less than 1.0 parts per million.
d. Sludge-based or animal waste materials are not allowed.
e. Carbon:Nitrogen ratio is less than 25:1.
f. All compost shall be aerobic without malodorous presence of decomposition products.
g. Maximum total permissible pollutant concentrations in amendment in parts per million on a dry weight basis:

Table with 4 columns: Element, Value 1, Value 2, Value 3. Rows include Arsenic, Cadmium, Chromium, Cobalt, Nickel, Copper, Lead, Mercury, Molybdenum, Vanadium, Zinc, Selenium, Silver.

8. Top Dress Mulch: Shall be well-seasoned composted 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 four (4) inches in diameter.

C. Plant Materials:

1. Availability & substitutions: No substitutions of plant species, type, cultivar, size etc. will be accepted without prior approval of PROJECT MANAGER.

2. All Plants: The plant names shown or listed on the Contract Drawings shall conform to the "Sunset Western Garden Book," latest edition unless otherwise specified.

32 90 00 LANDSCAPE PLANTING

1.5 DELIVERY, STORAGE AND HANDLING

A. Delivery:

- 1. Delivery of plant material shall begin only when it is ready for plant installation and after the inspections are made and any required soil samples and tests have been reviewed by the PROJECT MANAGER.
2. Notify the ENGINEER of a scheduled delivery a minimum of 48 hours in advance so the plant materials may be inspected upon arrival at the jobsite.
3. Protect plants during delivery against damage to root balls or desiccation of leaves.
4. Deliver fertilizer to the jobsite in the original and unopened containers bearing manufacturer's guarantee chemical analysis, name, trademark or trade name.

B. Storage:

- 1. Store plants, trees, etc. at the jobsite where directed by the PROJECT MANAGER.
2. Keep fertilizer in dry storage away from contaminants.
3. Store plants not installed on the day of arrival at the jobsite as follows:
a. Outside storage to be protected from wind.
b. Keep plants in containers in a moist condition until planted by watering with fine mist spray.

C. Handling: Transport and handle plants with care to ensure protection against injury.

PART 2 - PRODUCTS

2.1 MATERIALS

- A. Topsoil: The type and thickness of topsoil shall be as shown on the plans.
B. Fertilizers and Conditioning Materials: Comply with the applicable requirements of the State Agricultural Code.
1. Agricultural Gypsum: Hydrated calcium sulfate product containing 23 percent calcium and 18 percent sulfur.
2. General Purpose Fertilizer: Shall be Gro-Power Plus fertilizer.
3. Fertilizer Tablets: Fertilizer tablets shall be Tri-C Myco Tabs planting tablets.

PART 1 - GENERAL

1.1 DESCRIPTION

A. Work Included:

- 1. All labor, materials, equipment, and tools necessary to provide and execute: soil preparation and amendments; planting of new trees, plants, shrubs, vines, and ground cover and sod; all required testing and inspections; maintenance and establishment of new landscape plantings as indicated on the Contract Drawings.

1.2 SUBMITTALS

- A. Comply with provisions of Section 11 - SHOP DRAWINGS AND MANUFACTURER'S DATA of the General Conditions and Section 01330 - SUBMITTALS of DIVISION 1 - GENERAL REQUIREMENTS of the Project Manual.
B. Submit copies of the following:

- 1. Complete list of landscape plant materials soil amendments, fertilizers, herbicides, and miscellaneous hardware complete with descriptions and/or photographs and manufacturer's literature.

1.3 QUALITY ASSURANCE

- A. Codes and Regulations: CONTRACTOR to obtain and pay for all required permits. Deliver all permits and submit certifications of compliance to the CITY ENGINEER.

1.4 GENERAL REQUIREMENTS

- A. Required Approvals by the ENGINEER: No work included in this Section shall be commenced until the following are completed and approved:
1. Any required agricultural suitability and fertility analysis or testing and weed/pest control prior to placing topsoil or soil amendments.
2. All work on irrigation system prior to start of landscape planting work.
3. All reviews on required submittals and re-submittals requested by the ENGINEER for materials included in this section.

- B. Inspection: All work and materials are subject to inspection and approval by the Bureau of Contract Administration (BCA) Inspector and the PROJECT MANAGER. Any work done without proper inspection will be subject to rejection per Section 2-11 of the Standard Specifications for Public Works Construction.

- 1. For all finish grades in planting areas following all weed/pest control, soil fertilizing and conditioning, prior to landscape container planting, and after rolling in turf areas.
2. Inspection of all plant materials under 24" box size shall be at the time of delivery to the job site.
3. Tagging of 24" box or larger trees at the grower with City approved tags.
4. All completed landscape planting and irrigation work for approval to begin the plant maintenance and plant establishment period.

3.3 FLUSHING AND TESTING

A. After completion, and prior to the installation of any terminal fittings, thoroughly flush the entire pipeline system to remove dirt, scale, or other material.

1. The irrigation system mainlines shall be pressure tested for 24 hours at 125 p.s.i. with all control valves in place and closed.

2. After installation, the irrigation lateral lines shall be thoroughly flushed in the presence of the BCA inspector.

3. Irrigation Coverage Test: After installation of heads and lateral lines etc., entire irrigation system shall be tested for coverage.

4. Operational Test: Evaluate the performance of all components of the automatic control system for manual and automatic operation.

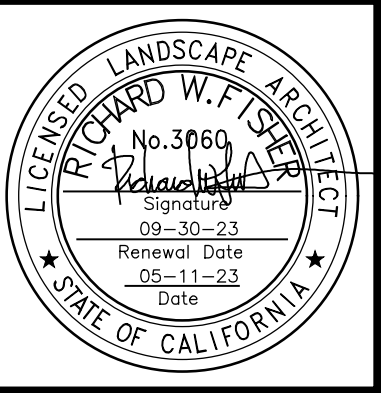
3.4 OPERATING MANUALS AND EQUIPMENT

- A. Furnish the City with 2 bound copies of operating and maintenance manuals for all irrigation system equipment such as automatic controller, valves, heads, etc.
B. Explain in detail all irrigation equipment operations, watering schedule and maintenance procedures to the City personnel as directed by the Project Manager.
C. Provide the City with a reduced legible copy of the "As-Installed" Irrigation Plan hermetically sealed in a plastic cover to be affixed inside the controller cover.

3.5 RECORD DRAWINGS

Irrigation record drawings shall include the following: Dimension the following locations from two permanent points of reference (building corners, sidewalks, road intersections, etc.):

- a. Connection to existing water lines
b. Connection to existing electrical power
c. Gate valves
d. Mainline routing and/or directional turns (dimension maximum 100 feet along routing).
e. Remote control valves
f. Air and pressure relief valves
g. Master valves/flow sensors

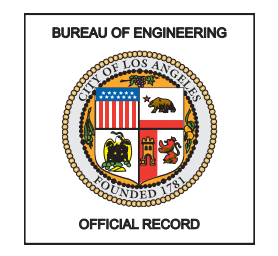


Client information: CLIENT: DEPARTMENT OF RECREATION & PARKS, GENERAL MANAGER: LANDSCAPE SPECIFICATIONS, SHEET 12, PROJECT: RIO DE LOS ANGELES STATE PARK FIELDS MAINTENANCE IMPROVEMENTS PROJECT, ADDRESS: 1900 WEST SAN FERNANDO ROAD, LOS ANGELES, CA, 90039

Revision table with columns: NO., DATE, REVISION DESCRIPTION. Includes CIP NO. G1188 and INDEX NO. RP-300125.

Approval table with columns: CITY ENGINEER, DESIGN GROUP, ENGINEER, ARCHITECT, DESIGNED BY, DRAWN BY, CHECKED BY, APPROVED BY. Includes names like Ted Allen, P.E., City Engineer.

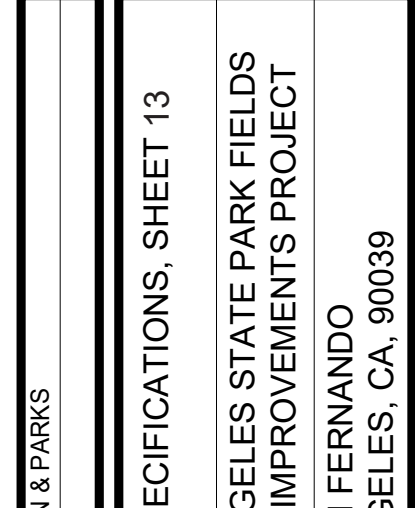
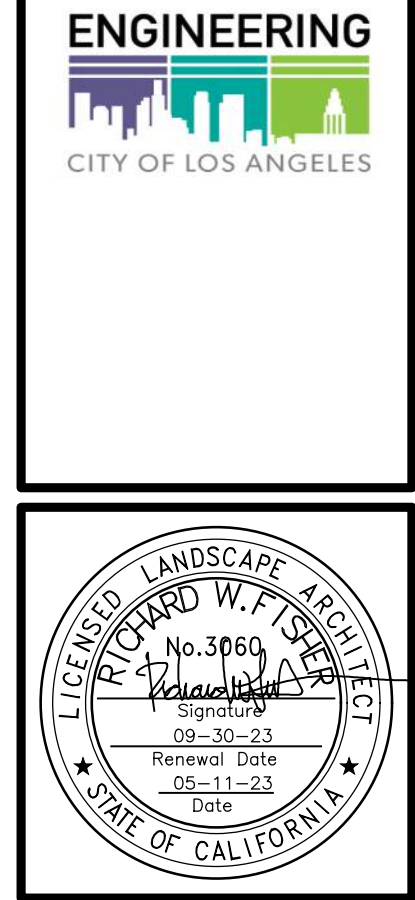
Work Order No. E1908951, File No. 999, Drawing No. L012, Sheet 17 of 100 sheets.



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

THIS PLAN WAS ELECTRONICALLY SIGNED AND STAMPED. BUREAU OF ENGINEERING. DEPARTMENT OF PUBLIC WORKS. CITY OF LOS ANGELES.

1	2	3	4	5	6	7	8	9	10	11	12	13	14	15	16	
L		3. Quality: All plants shall have a growth habit normal to the species in accordance with U.S.A. Standards for Nursery Stocks, latest editions; shall be sound, healthy, vigorous and free from insect pests, plant disease, sun scalds, weeds, fresh bark abrasions, excessive abrasions or other objectionable disfigurements. Tree trunks shall have normal well-developed branch systems. All plant materials shall have vigorous and fibrous root system, not root bound and shall be free of kinked or girdling roots. The CONTRACTOR shall be responsible for the condition of all plants, planted or otherwise, until final acceptance by the CITY and termination of maintenance period		2. Identify any potential problems in the relationship between specified of plant materials and existing soil conditions that may ultimately affect plant growth.				a. After scarification, apply "GROUND BREAKER" soil penetrant to all planting areas at a rate of 1 gallon per 1,000 square feet per manufacturer's instructions.							B. All herbicides for weed control shall be applied with a photosensitive dye which will produce a contrasting color when sprayed upon the ground. The dye shall be applied in a manner so as not to leave any stain upon finished surfaces.	
K		4. Sod: Shall be of the type designated on the planting plan, or an approved equal. Sod shall be delivered to the job site within 24 hours of being cut at the nursery, and COMPLETELY installed within 12 hours of delivery to the job site. The sod shall be machine cut to between 3/8" and 5/8" thick, not including top growth or thatch.		3. For on-site soil, use a soil probe or soil auger to remove soil core samples. Otherwise use a shovel to dig a hole to the desired depth. Sample the soil from the side of the hole by scraping it with a trowel. The tools need to be clean and not rusty. Avoid sampling when the soil is too wet.				b. 12 hours minimum after applying soil penetrant, all planting areas shall receive the following soil amendment per 1,000 square feet: • 50 lb. GRANULAR HUMIC ACID SOIL CONDITIONER							C. The following precautions shall be observed in handling and applying herbicides: 1. Before applying, the CONTRACTOR shall read and understand all instructions provided by the manufacturer. 2. Herbicide product shall not be used when winds are gusty or in excess of 8 miles per hour, or when any other conditions exist which would result in drift. 3. DO NOT USE any combinations of pressure and nozzle type or adjustment that result in misting.	
J		5. All plants shall be inspected and approved prior to planting as per provisions of Subsection 1.4(B) specified above		B. CONTRACTOR shall provide the ENGINEER with a copy of the completed report with recommendations for soil amendments and fertilization for initial planting, as well as any measures to be taken during the plant establishment period. on laboratory letterhead for review prior to commencement of soil preparation.				c. Soil amendment shall be evenly broadcast on the surface and uniformly cultivated into the top 6" of the soil and thoroughly irrigated. Soil shall not be worked when it is so wet as to cause excessive compaction or to cause the formation of large clods; or so dry as to create excessive dust. Prior to planting, the top 3 inches of soil (including slopes) shall be free of weeds, stones and other deleterious matter 1-inch diameter and larger.							4. Do not apply during rain, or if rain is forecast within twelve hours. If rain occurs within a twelve-hour period after application, material must be reapplied after application area has sufficiently dried out.	
H		D. <u>Tree Stakes:</u> 1. Wood tree stakes 2-inches in diameter by 10 feet long, lodgepole grade, pressure-treated, capable of standing in the ground at least two years. a. All trees in non-turf areas as indicated on the Contract Drawings shall be double staked per detail b. All trees in turf areas as indicated on the Contract Drawings shall be triple staked per detail.		C. <u>Agricultural Suitability and Fertility Analysis:</u> 1. Must include pH measurement in the Saturation Extract, Electrical Conductivity of the saturation extract and Sodium Adsorption Ratio of the saturation extract. 2. The following nutrients and elements must be determined with an approved extraction method. Interpretation data must be given citing concentrations which are considered to be low, medium and high: Boron, Calcium, Copper, Iron, Magnesium, Manganese, Molybdenum, Phosphorus, Potassium, Sodium, Sulfur, and Zinc a. The saturation extract must be analyzed for Calcium, Magnesium, Sodium, Boron, Chloride, Nitrate and Sulfate. b. The following trace metals must be measured by the DTPA extract: Aluminum, Arsenic, Cadmium, Chromium, Cobalt, Lead, Lithium, Nickel, Selenium, Silver, Strontium, Tin and Vanadium. c. The presence of Calcium Carbonate and/or Magnesium Carbonate must be determined. d. Soil Texture and Organic Matter content may be estimated or determined by commonly used methods. e. Interpretation of nutritional deficiencies or excesses and potential toxicities must be given.				4. For all planting areas inside of tree protection zones, the Class "C" on-site ("native") topsoil shall be scarified to a depth of 1 inch, taking care not to damage surface roots. a. After scarification, apply "GROUND BREAKER" soil penetrant to all planting areas at a rate of 1 gallon per 1,000 square feet per manufacturer's instructions. b. 12 hours minimum after applying soil penetrant, all planting areas shall receive the following soil amendment per 1,000 square feet: • 20 lb. GRANULAR HUMIC ACID SOIL CONDITIONER c. Soil amendment shall be evenly broadcast on the surface and uniformly cultivated into the top 1" of the soil and thoroughly irrigated. Soil shall not be worked when it is so wet as to cause excessive compaction or to cause the formation of large clods; or so dry as to create excessive dust. Prior to planting, the top 3 inches of soil (including slopes) shall be free of weeds, stones and other deleterious matter 1-inch diameter and larger.							5. CONTRACTOR shall observe extreme care not to allow spray to contact plant material designated to remain, or in adjacent areas. 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.	
G		PART 3 – EXECUTION 3.1 GENERAL A. The Landscape work shall not be performed at any time when it may be subject to damage by climatic conditions. B. Planting and soil preparation work shall not begin in until irrigation installation is complete, and coverage and approximate finish grade has been approved by the ENGINEER in the area of work. C. The CONTRACTOR shall verify all dimensions shown on the Contract Documents and at the site. D. In case of conflict between the plant schedule totals and total plant count of the contract documents, the CONTRACTOR shall provide the higher number of plants. E. Delivery of material shall begin only when it is ready for the work and after the inspections are made and the required samples and tests have been reviewed by the ENGINEER. All materials furnished for the work shall be not less than the reviewed sample. F. The CONTRACTOR shall provide temporary fencing, barricades, covering, or other protection to preserve existing landscaping items indicated to remain and to protect the adjacent properties and other structures from damages by the landscape and other contract work. G. The CONTRACTOR shall abide by the Tree Preservation Guidelines, Section 1.4.D herein for all trees indicated to remain. H. The CONTRACTOR shall remove and/or relocate landscape items such as trees, shrubs, grass, other vegetation, improvements, and obstructions as shown on Drawings or specified otherwise. All plant material to be removed shall be disposed of off the site in a legal and proper manner.						5. For individual tree and shrub planting outside of designated bulk soil amendment areas, backfill shall be 100% Class "C" on-site ("native") topsoil uniformly amended with GRANULAR HUMIC ACID SOIL CONDITIONER at the rate specified below: 15 gallon: 1/2 cup (US) per plant 24" box: 2 cups (US) per plant 36" box: 6 cups (US) per plant 48" box: 10 cups (US) per plant							D. <u>Herbicide Application:</u> Pesticides must be applied by a licensed Pest Control Applicator in accordance with the requirements of the California Food and Agricultural Code and specified herein. The CONTRACTOR shall abide by all laws and codes governing weed abatement operations including but not limited to CAL-OSHA requirements and The Healthy School Act of 2000 (AB2260). Prior to herbicide application CONTRACTOR shall: 1. Notify the PROJECT MANAGER a minimum of 72 hours in advance of each application of pesticide/herbicide and shall indicate the hours during which the application will occur. No applications shall be made on Saturdays, Sundays, or legal holidays, unless otherwise prior approval by the PROJECT MANAGER in writing. 2. Notify the Pest Management Supervisor of the RAP Forestry Division at (213) 485-4826. Do not add other products to any herbicide mix, including spreader, stickers, or surfactants, unless required by the label directions and approved by the RAP Pest Management Supervisor. 3. Prior to any approved pesticide applications at any RAP facility with a Recreation Center or Child Care Center, the CONTRACTOR is required to notify the Recreation Center Director a minimum of 72 hours in advance of each application. 4. Submit to the BCA Inspector and to RAP Forestry a "Pest Control Recommendation Form" prepared by a licensed Pest Control Advisor, and a provide completed and accurate SDS (Safety Data Sheet) to be kept at the site of application. The area of application shall be posted as such and barricaded for public safety and information (site construction fencing is deemed adequate for this purpose when present). 5. Any questions regarding pesticide application and procedures at Recreation and Parks facilities shall be directed to the PROJECT MANAGER/BCA Inspector and the RAP Forestry group, Vegetative Management at (213) 485-4826.	
F				3.4 GRADING AND SITE PREPARATION A. <u>Rough Grading:</u> 1. <u>Earthwork and Topsoil Placement:</u> Shall include excavation and backfilling for the irrigation system and the preparation for the spreading, densification, cultivation and raking of topsoil, including fertilization and conditioning. B. <u>Topsoil Preparation and Amendment:</u> 1. After completion of all necessary trenching and backfill for electrical, irrigation, or drainage piping and conduit, bring planting areas to approximate finish grade, including construction of landscape mounds, before performing soil amendment. CONTRACTOR shall account for the amount of fertilizer and soil amendments to determine the appropriate grade. 2. <u>Turf Areas:</u> For all TURF planting areas outside of tree protection zones, Class "C" on-site ("native") topsoil shall be scarified and cultivated to a uniform, finely divided condition to a depth of 12 inches. Soil shall not be worked when it is so wet as to cause excessive compaction to cause the formation of large clods; or so dry as to create excessive dust. All soil amendments shall then be broadcast evenly at the rate as specified below (or per the recommendations of the approved agricultural suitability and fertility analysis if directed by the PROJECT MANAGER), and then thoroughly and uniformly incorporated to the depth of 12 inches. Prior to planting, the top 3 inches of all planting areas (including slopes) shall be free of weeds, stones and other deleterious matter 1-inch diameter and larger. a. All turf planting areas shall receive the following soil amendments per 1,000 square feet: 4 cubic yards, Type I organic soil amendment 15 lbs. Agricultural Gypsum 50 lbs. Gro-Power Plus fertilizer b. Topsoil shall be restored to a smooth finish grade after amendment process is complete and irrigated thoroughly to activate amendments and fertilizers.												1. Notify the PROJECT MANAGER a minimum of 72 hours in advance of each application of pesticide/herbicide and shall indicate the hours during which the application will occur. No applications shall be made on Saturdays, Sundays, or legal holidays, unless otherwise prior approval by the PROJECT MANAGER in writing. 2. Notify the Pest Management Supervisor of the RAP Forestry Division at (213) 485-4826. Do not add other products to any herbicide mix, including spreader, stickers, or surfactants, unless required by the label directions and approved by the RAP Pest Management Supervisor. 3. Prior to any approved pesticide applications at any RAP facility with a Recreation Center or Child Care Center, the CONTRACTOR is required to notify the Recreation Center Director a minimum of 72 hours in advance of each application. 4. Submit to the BCA Inspector and to RAP Forestry a "Pest Control Recommendation Form" prepared by a licensed Pest Control Advisor, and a provide completed and accurate SDS (Safety Data Sheet) to be kept at the site of application. The area of application shall be posted as such and barricaded for public safety and information (site construction fencing is deemed adequate for this purpose when present). 5. Any questions regarding pesticide application and procedures at Recreation and Parks facilities shall be directed to the PROJECT MANAGER/BCA Inspector and the RAP Forestry group, Vegetative Management at (213) 485-4826.
E																E. <u>"Grow and Kill" method:</u> The CONTRACTOR shall adhere to the following steps: 1. <u>Clear and grub</u> the surface of the designated planting area by mechanical means or by hand, removing all surface vegetation (excepting any trees, shrubs or turf designated to remain per plans and notes), rocks, debris, etc. Do not disturb the roots or compact soil around any existing vegetation to remain or within designated Tree Protection Zones, and do not remove any topsoil during clearing work. 2. <u>"Grow Period":</u> Water all planting areas daily or as needed to keep soil evenly moist and promote weed germination and growth for a period of a minimum of three weeks. If, in the opinion of the ENGINEER the "Grow Period" irrigation was insufficient to achieve adequate germination, the "Grow Period" may be extended in minimum 7-day intervals at no additional expense to the CITY. 3. <u>"Kill Period":</u> At the conclusion of the grow period and approval by the ENGINEER, treat all emergent weeds within the planting area with approved herbicide per the submitted and approved "Pest Control Recommendation Form" following the manufacturer's instructions and labelling - taking care to protect all trees, shrubs, turf etc. designated to remain. If nutsedge (nutgrass) is determined to be present in any of the planting areas by the ENGINEER during the "Grow Period", CONTRACTOR will be required to apply a separate selective herbicide manufactured specifically for the control of nutsedge at no additional cost to the CITY until nutsedge is completely eradicated. 4. After spraying, do not water or otherwise disturb treated areas for a minimum period of two (2) weeks.
D																
C																
B																
A																



CLIENT: DEPARTMENT OF RECREATION & PARKS
GENERAL MANAGER:
SHEET TITLE: LANDSCAPE SPECIFICATIONS, SHEET 13
PROJECT: RIO DE LOS ANGELES STATE PARK FIELDS MAINTENANCE IMPROVEMENTS PROJECT
ADDRESS: 1900 WEST SAN FERNANDO ROAD, LOS ANGELES, CA, 90039

CIP NO. G1188

INDEX NO. RP-300125

NO. DATE REVISION DESCRIPTION
CITY ENGINEER: TED ALLEN, P.E., CITY ENGINEER
DESIGN GROUP: RICHARD W. FISHER, LANDSCAPE ARCHITECT I
ENGINEER: ERNESTO GONZALEZ, LANDSCAPE ARCH. ASSOCIATE II
ARCHITECT: RICHARD W. FISHER, LANDSCAPE ARCHITECT I
DRAWN BY: ERNESTO GONZALEZ, LANDSCAPE ARCH. ASSOCIATE II
CHECKED BY: RICHARD W. FISHER, LANDSCAPE ARCHITECT I
APPROVED BY:

WORK ORDER NO. E1908951
FILE NO. 999
DRAWING NO. L013
SHEET 18 OF 100 SHEETS

CITY OF LOS ANGELES DEPARTMENT OF PUBLIC WORKS BUREAU OF ENGINEERING THIS PLAN WAS ELECTRONICALLY SIGNED AND STAMPED

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

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

Grid with columns 1-16 and rows A-L. Contains technical specifications for landscaping, including sections for Planting, Tree Staking and Guying, Maintenance and Plant Establishment, and Guarantee. Includes detailed instructions for soil preparation, watering, and plant care.

Vertical sidebar containing: Engineering logo (City of Los Angeles), License information (Richard W. Fisher, No. 3660), Project title (Rio de Los Angeles State Park Fields Maintenance Improvements Project), Department of Public Works, Department of Engineering, and drawing identification (RP-300125, L014, 19 of 100 sheets).

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Table with 16 columns and 12 rows (A-L) containing technical specifications for sanitary sewage and storm drain systems. Includes sections for Inspection, Coordination, Materials, Execution, and Backfilling.

Vertical sidebar containing: Engineering City of Los Angeles logo, License information for Richard W. Fisher, Project details (RP-300125), Department of Public Works, and drawing information (L015, 20 of 100 sheets).

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- 5. Manufacturer's Specifications and other data needed to prove compliance with the specified requirements.
- 6. Manufacturer's recommended installation procedures which, when approved by the City Engineer or the Consultant, will become the basis for accepting or rejecting actual installation procedures used on the Work.

1.4 INSPECTION

A. Required:

- 2. All work inside the property lines regarding storm drain lines shall be inspected by the Los Angeles City Department of Building and Safety.

1.5 COORDINATION

- A. Required: All on-site storm drain work shall be fully coordinated with other Contracted Work operations as per approved work scheduled.

PART 2 - PRODUCTS

2.1 PIPE MATERIAL

- A. PVC Pipe: SDR 150 type, size per Contract Drawings. As per Section 207 - Pipe and Section 208 - Pipe Joint Types and Materials of the Standard Specifications for Public Works Construction (SSPWC).
- B. Perforated Subsurface Drain Pipe: Provide shop-perforated with perforations symmetrically located within a maximum arc of 160 degrees. Perforations shall provide a total open area of at least 0.3 square inches per linear foot of pipe, with a minimum of one perforation per linear foot, except for joint areas. Perforation shall be either holes or slots. Hole diameters of 1/4-inch minimum to 3/8-inch maximum. Width of slots of 3/16-inch minimum to 5/16-inch maximum with slot length not exceeding 4-inches.
- C. Cleanout: To be located every fifty (50) feet at finish grade or floor inside of building with pipe extensions from horizontal runs installed with long turn radius or at an angle of 45 degrees or less.

- 1. Floor Cleanout (FCO) - Jr Smith # 4043, Josam # 56030-22, Wade # W-6000 & Zurn # 2-1400-3 (square), Jr Smith # 4023, Josam # 56010-22, Wade # W-6000 & Zurn # 2-H00-2 (rounds)

- D. Concrete, Mortar and Related Materials: Conform to Section 4 – CAST IN PLACE CONCRETE.

E. Metal Covers, Grates, Frames and Accessories:

- 1. Conform to Section 206 - Miscellaneous Metal Items of the Standard Specifications for Public Works Construction.
- 2. Hot-dip galvanize steel parts after fabrication and before installation, in accordance with Section 210 - Paint and Protective Coatings of the Standard Specifications for Public Works Construction.
- 3. Grates and Frames: Vandal-proof design and construction.

- F. Bedding Material for Pipe: Conform to the requirements of Section 3 - EARTHWORK, and Approved Soils Report as required.

G. Subsurface Drain Fabric: Non-woven geotextile filter fabric:

- 1. TenCate Geosynthetics Americas, Mirafi 140N.
- 2. US Fabrics, Inc., 120NW.
- 3. Propex Fabrics, Inc., Geotex 451.
- 4. Approved Equal.

- H. Aggregate Around Perforated Pipe: 6 inches of gravel containing no particles finer than a 3/8-inch to 1/2-inch sieve opening size.

I. Catch Basin Filter Inserts:

- 1. Manufacturer: KriStar Enterprises Inc. or Equal.
- 2. Products: FloGard +Plus, FloGard LoPro or Equal.

2.2 PRE-CAST CONCRETE CATCH BASIN AND METAL GRATE

- A. Required for Catch Basins: Concrete having a compressive strength of [3250 psi] at 28 days as per Section 303 of the SSPWC.

- 1. Grate: as noted per plans.

PART 3 - EXECUTION

3.1 SURFACE CONDITIONS

- A. Examine the areas and conditions under which work of this Section will be performed. Correct conditions detrimental to timely and proper completions of the Work. Do not proceed until detrimental conditions are corrected as directed by the ENGINEER or BCA Inspector.

3.2 EXCAVATING AND TRENCHING

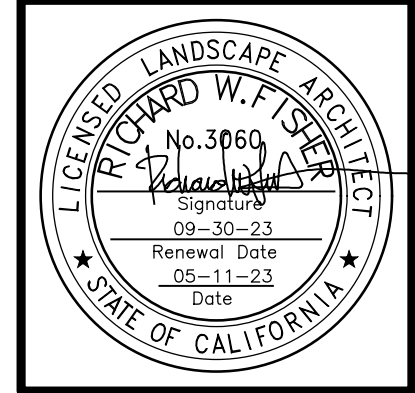
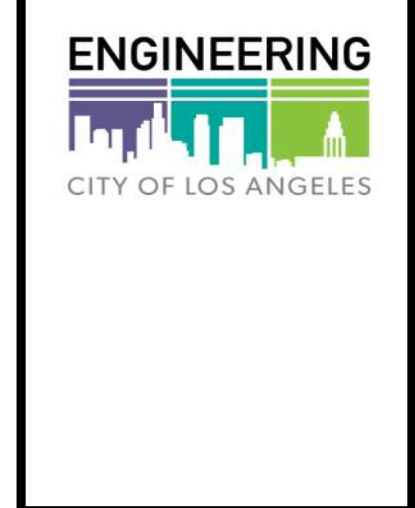
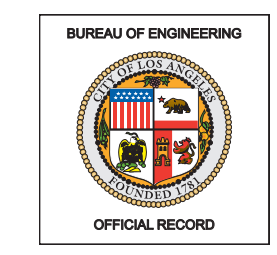
- A. General: Conform to the requirements as specified on the drawings, Los Angeles City Plumbing Code, SSPWC and Section 3 - EARTHWORK.
- B. Provide excavation and trenches for storm drain piping systems, concrete catch basins indicated on the Contract Drawings in accordance with applicable requirements specified in Section 3 - EARTHWORK.

3.3 STORM DRAIN SYSTEM CONSTRUCTION

- A. General: In strict accordance with pipe manufacturers recommendations and the Los Angeles City Plumbing Code and the SSPWC.
- B. Installation of Pipe: In accordance with Sec. 306-1.2 INSTALLATION OF PIPE of the SSPWC on unyielding bedding foundations with uniform bearing under full length of pipe barrels; walking on or disturbing pipe in any manner after joints have been made, is not permitted. Whenever work is stopped for any reason, protect ends of pipe with temporary tight-fitting closures. Slope pipe per Contract Drawings.
- C. Pipe Bedding:
 - 1. Provide bedding per applicable requirements specified in Section 3 - EARTHWORK. Bedding material to be tamped and compacted and accurately graded and shaped to support bottom quadrant of pipe, with coupling holes dug prior to placement of pipe.
 - 2. Backfill: Provide backfill and compact per applicable requirements specified in Section 3 - EARTHWORK and Approved Soils Report.

3.4 PRE-CAST CONCRETE STRUCTURES

- A. General: Provide and install as indicated on the Contract Drawings. See Grading plan for installed invert elevations.



CLIENT: DEPARTMENT OF RECREATION & PARKS	GENERAL MANAGER:	LANDSCAPE SPECIFICATIONS, SHEET 16
PROJECT:	ADDRESS:	1900 WEST SAN FERNANDO ROAD, LOS ANGELES, CA, 90039

INDEX NO.	RP-300125	CIP NO.	G1188
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WORK ORDER NO.	E1908951
FILE NO.	999
DRAWING NO.	L016
SHEET	21 OF 100 SHEETS

DESIGNED BY:	RICHARD W. FISHER, LANDSCAPE ARCHITECT I
DRAWN BY:	ERNESTO GONZALEZ, LANDSCAPE ARCH. ASSOCIATE II
CHECKED BY:	RICHARD W. FISHER, LANDSCAPE ARCHITECT I
APPROVED BY:	

CITY OF LOS ANGELES DEPARTMENT OF PUBLIC WORKS BUREAU OF ENGINEERING THIS PLAN WAS ELECTRONICALLY SIGNED AND STAMPED

REVISION DATES (DESIGN STAGE ONLY) THE CITY OF LOS ANGELES OR ITS OFFICERS OR AGENTS SHALL NOT BE RESPONSIBLE FOR THE ACCURACY OR COMPLETENESS OF ELECTRONIC COPIES OF THIS PLAN SHEET.

TREE PROTECTION - EXISTING TREES:

All trees to remain in place shall be protected using the following guidelines:

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

ANY FAILURE BY THE CONTRACTOR TO ADHERE TO THE REQUIREMENTS SPECIFIED BELOW WILL RESULT IN THE SUSPENSION OF ALL CONSTRUCTION ACTIVITIES, TO BE DONE AT THE CONTRACTOR'S EXPENSE. THE CONTRACTOR SHALL BE RESPONSIBLE FOR REPLACEMENT OF OR PAYMENT FOR ANY TREES DAMAGED THROUGH NON-COMPLIANCE WITH THESE SPECIFICATIONS. THE MONETARY OR REPLACEMENT VALUE OF IMPACTED TREES WILL BE DETERMINED BY A RECREATION AND PARKS (RAP) ARBORIST OR BY A RAP APPROVED ISA CERTIFIED ARBORIST.

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.

All trees that occur within the area of work, as shown on the plans, and NOT specifically designated for removal, shall be protected by the following means:

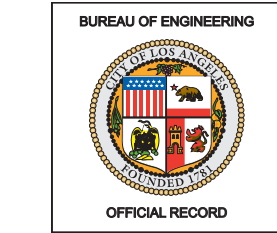
- Defining the Tree Protection Zone (TPZ)** - The radius (not the diameter) of the TPZ, measured from the outside of the tree trunk, shall be calculated according to the following:
 - Single trunk trees** - multiply the trunk diameter in inches, measured 4.5' above grade, by 1.5 feet.
 - Multi trunk trees** - multiply the sum of the diameters of all trunks in inches, measured 4.5' above grade, by 1.5 feet.
 - Palm trees** - 5' from the base of the trunk.
 - If a TPZ is delineated on the plans, the size and shape shown on the plans shall supercede the above requirements.**
 - Before beginning any excavation or demolition work, the contractor shall install a 5' high temporary chain link fence with one pedestrian access gate along the boundary of the TPZ. See plans and details for temporary chain link fence location and installation.
 - The contractor shall provide one sign per each 20 lineal ft. of fence surrounding the TPZ indicating that fencing shall not be removed. See TPZ sign detail.
 - No work is permitted within the TPZ without the approval of: 1) the project Landscape Architect, 2) the Project Manager, and 3) RAP Forestry staff. Any work authorized by RAP Forestry staff within the TPZ must be done in accordance with the recommendations of RAP Forestry and under the supervision of a Monitoring Arborist. The Monitoring Arborist shall be supplied by the Contractor at his own expense, and be an ISA Certified Arborist or a Registered Consulting Arborist with verifiable experience in protecting trees. The Monitoring Arborist must be approved by RAP Forestry prior to commencement of work.
 - Within the TPZ, the contractor shall adhere to the following requirements, including, but not limited to:
 - No stockpiling or storage of any material, debris, or soil.
 - No storage of any construction equipment.
 - No vehicular access.
 - No un-approved trenching, excavation or disturbance of soil will be allowed.
 - No objects of any kind shall be attached to tree trunks.
 - For any approved excavation or trenching, no cutting of roots over 2" diameter will be allowed. Contractor shall use a pneumatic drill (a.k.a. "air spade") to excavate under woody roots larger than 2" in diameter. If any roots are unintentionally severed, remedial cuts are to be made under the supervision of the Monitoring arborist, and soil backfilled immediately.

- Within the boundaries of the construction zone (including the TPZ), the contractor shall be responsible for mitigating construction-related dust accumulation on all trees by spraying the trunks, limbs, and foliage with water to a maximum height of 30 feet during the months of April through November, at monthly intervals.

- Beyond the TPZ, the contractor shall also be responsible for protecting all existing trees to remain in place within the boundaries of the construction zone, including vehicular access areas, lay down areas, and any other areas impacted by construction activities. Any damage to trees in these areas shall also be subject to the same monetary or replacement requirements specified below. Any necessary root cutting in this area must be approved in advance by either RAP Forestry or by a RAP approved ISA certified arborist employed by the Contractor. See also the General Conditions for any damage done by the contractor to landscaping or other park amenities that fall outside the boundaries of the construction zone.
- Irrigation to all existing trees NOT specifically designated for removal shall be kept in operation for the duration of the project. Contractor shall be responsible for hand watering all impacted trees if necessitated by temporary shutdowns to or demolition of existing irrigation systems. Trees are to be irrigated deeply and as often as required such that soil moisture is detectable at a minimum depth of 18" using a soil probe.
- Upon completion of all trenching, grading, excavation and soil preparation work, contractor shall remove all items installed to protect trees during the construction process with approval of the Project Manager.
- Any of the following Southern California native tree species fall under Ordinance No. 177404 of the Los Angeles Municipal Code:
 - Oaks, including Valley Oak (*Quercus lobata*), California Live Oak (*Quercus agrifolia*), or any other tree of the oak genus indigenous to California but excluding Scrub Oak (*Quercus dumosa*);
 - Southern California Black Walnut (*Juglans californica* var. *californica*);
 - Western Sycamore (*Platanus racemosa*);
 - California Bay (*Umbellularia californica*).
 Contractor shall comply with the requirements of the ordinance found at: http://cityplanning.lacity.org/Code_Studies/Other/ProtectedTreeOrd.pdf.

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 size, quality and variety using 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.



FENCING MATERIALS

1 POSTS: O.D., LINE POSTS 2-3/8 IN. O.D. POST SPACING TO BE 10'-0" MAX. POSTS TO BE DRIVEN 2' BELOW RELATIVE GRADE.	6 HINGES: INDUSTRIAL BULLDOG HINGE (180 SWING) 2 HINGES PER GATE, ONE TOP AND ONE BOTTOM.
2 FABRIC: 9 GAUGE, 2 IN. MESH, KNUCKLE TOP AND BOTTOM, PLACE ON OUTER SIDE OF POST.	7 GATE FRAME: SIDES, 2-3/8" DIA
3 TIE WIRES: 11 GAUGE AT 12" O.C.	8 LOCKABLE CAST ALUMINUM FORK LATCH POST TOPS MALLEABLE IRON OR PRESSED STEEL.
4 POST TOPS MALLEABLE IRON OR PRESSED STEEL.	
5 24"x18" SIGN. ATTACH WITH TIE WIRES. SIGN TO BE PROVIDED BY CONTRACTOR. SUBMIT SHOP DRAWING OF THE SIGN BEFORE INSTALLATION.	

NOTES:

- CHAIN LINK FENCE MATERIALS SHALL CONFORM TO THE CHAIN LINK FENCE AND MISCELLANEOUS METAL CONSTRUCTION SECTION OF THE LANDSCAPE SPECIFICATIONS.
- THE BOTTOM OF THE FABRIC SHALL BE POSITIONED ONE INCH ABOVE FINISH GRADE.
- PROVIDE FOR ONE 3' WIDE GATE PER ENCLOSURE.
- ALL FENCING TO HAVE A STANDARD GALVANIZED FINISH.

A13	5' HIGH TREE PROTECTION FENCE	RP DETAIL 500.1
N.T.S.	REFINIO	

ENGINEERING
CITY OF LOS ANGELES

BUREAU OF ENGINEERING
CLIENT: DEPARTMENT OF RECREATION & PARKS
GENERAL MANAGER: [Name]
SHEET TITLE: TREE PROTECTION NOTES/DETAIL
PROJECT: RIO DE LOS ANGELES STATE PARK FIELDS MAINTENANCE IMPROVEMENTS PROJECT
ADDRESS: 1900 WEST SAN FERNANDO ROAD, LOS ANGELES, CA, 90039

DEPARTMENT OF PUBLIC WORKS

CITY OF LOS ANGELES

TED ALLEN, P.E., CITY ENGINEER
DESIGN GROUP: [Name]
ENGINEER: [Name]
ARCHITECT: RICHARD W. FISHER, LANDSCAPE ARCHITECT I
DESIGNED BY: ERNESTO GONZALEZ, LANDSCAPE ARCH. ASSOCIATE II | 7/13/2023
DRAWN BY: RICHARD W. FISHER, LANDSCAPE ARCHITECT I
CHECKED BY: RICHARD W. FISHER, LANDSCAPE ARCHITECT I
APPROVED BY: [Name]

INDEX NO. RP-300125
CIP NO. G1188

WORK ORDER NO. E1908951
FILE NO. 999
DRAWING NO. L017
SHEET 22 OF 100 SHEETS

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

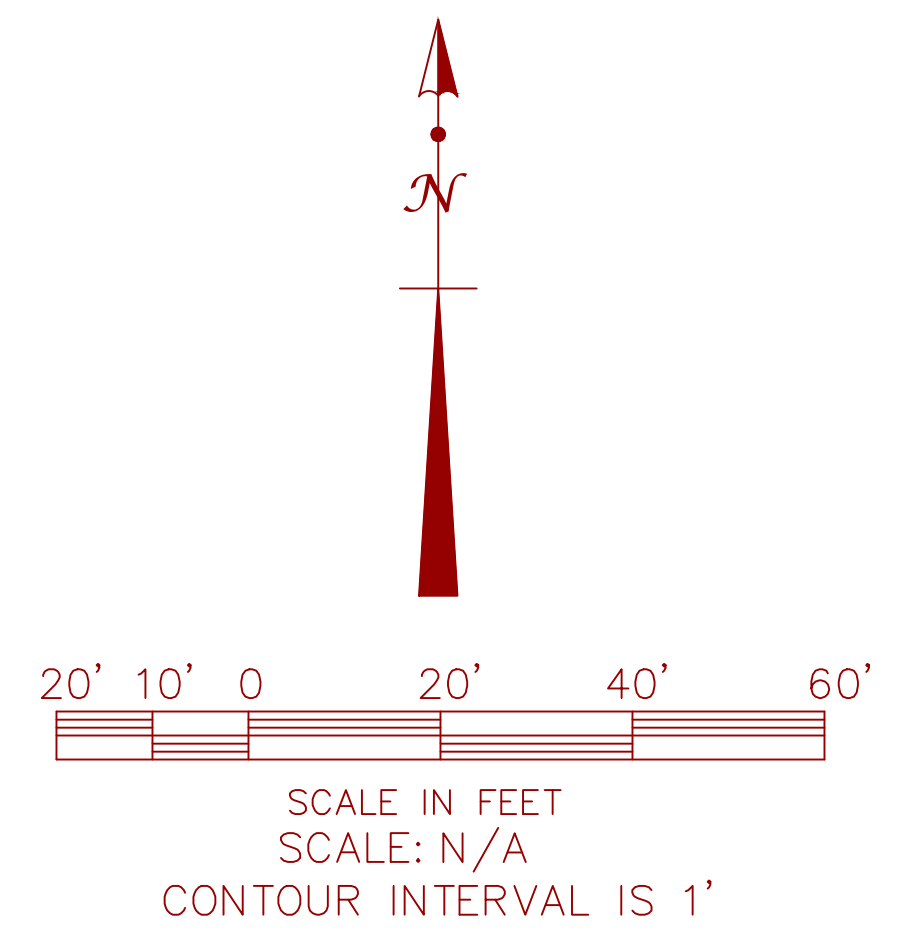
Sheet Version 2.01

LEGEND ABBREVIATIONS

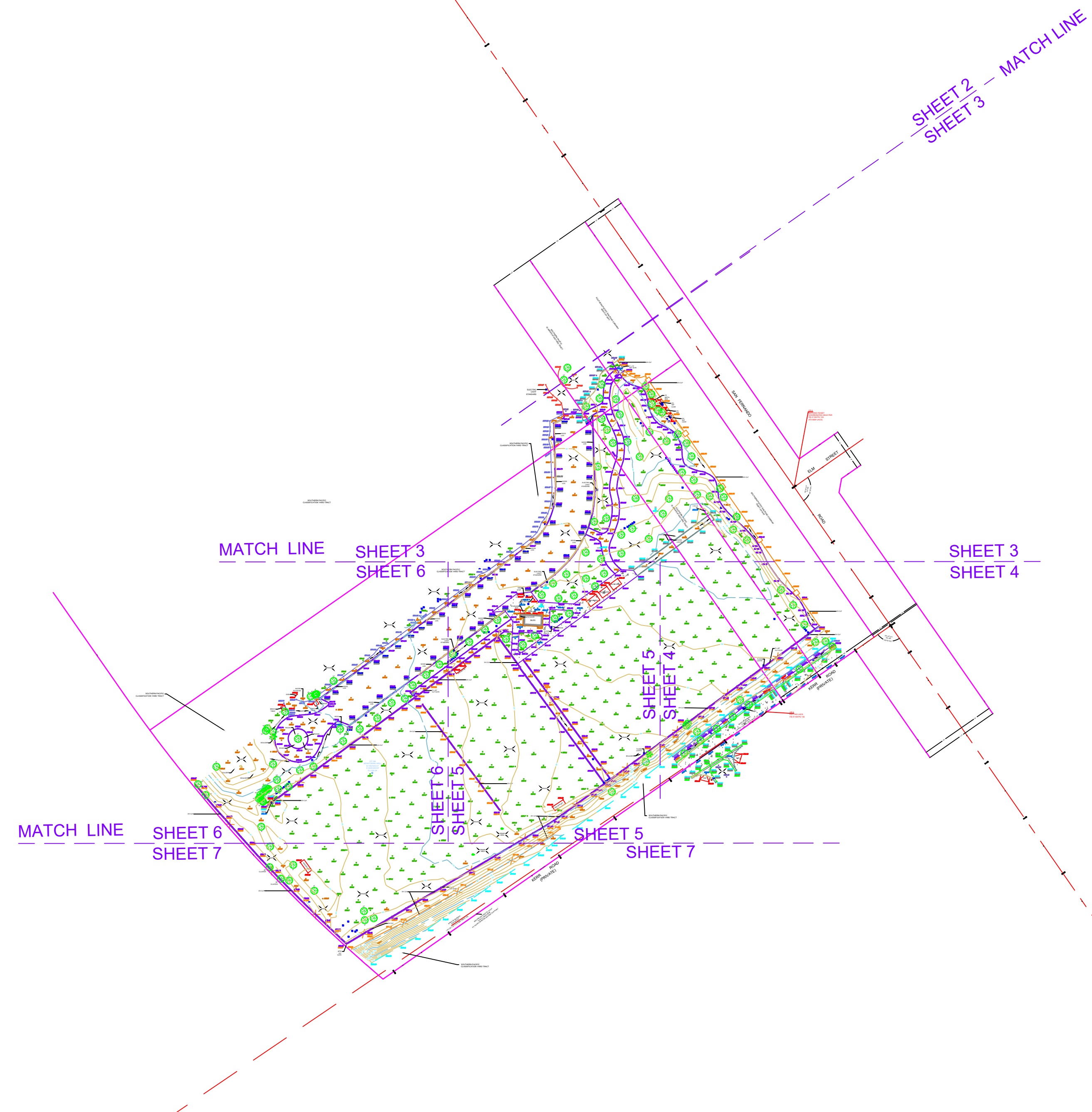
AC	ASPHALT CONCRETE
BO	BAD ORDER
BLDG	BUILDING
CL	CONTROL LINE
CLF	CHAIN LINK FENCE
CO	CLEAN OUT
CONC	CONCRETE
CP	CONTROL POINT
DWY	DRIVEWAY
FB	FIELD BOOK
H	HEIGHT
L&TAG	LEAD AND TAG
LACS	LOS ANGELES CITY SURVEYOR
P/L	PROPERTY LINE
PG	PAGE
RMP	RAMP
S&W	SPIKE AND WASHER
SD	SURFACE DRAIN
SSM	STANDARD SURVEY MONUMENT
W	WIDTH
WIF	WROUGHT IRON FENCE

NOTE TO CONTRACTOR
CONTRACTOR IS RESPONSIBLE TO VERIFY NOTED DIMENSIONS

NOTE:
STREET RIGHT OF WAY
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DUPLICATE NOTE:
THIS MAP IS A DUPLICATE OF THE SURVEY DEPICTED ON MAP # A-21156. FILED IN THE BUREAU OF ENGINEERING, CENTRAL RECORDS SECTION, CITY OF LOS ANGELES.



LEGEND LINE TYPE

BUILDING	[Symbol]
STREET CONTROL LINE	[Symbol]
CONTOUR LINE	[Symbol]
CONTOUR INDEX LINE	[Symbol]
CURB	[Symbol]
FLOW LINE	[Symbol]
SIDE WALK	[Symbol]
EDGE OF CONCRETE	[Symbol]
BERM	[Symbol]
GRADE CHANGE	[Symbol]
CHAIN LINK FENCE	[Symbol]
WROUGHT IRON FENCE	[Symbol]
PROPERTY LINE	[Symbol]

SYMBOL LEGEND

[Symbol]	ELECTRIC PULLBOX	[Symbol]	LIGHT STANDARD
[Symbol]	IRRIGATION CONTROL BOX	[Symbol]	SIGN
[Symbol]	STAND PIPE	[Symbol]	CLEAN OUT
[Symbol]	SURFACE DRAIN	[Symbol]	CONTROL POINT
[Symbol]		[Symbol]	MONITORING WELL
[Symbol]	CONCRETE	[Symbol]	TREE
		[Symbol]	PALM TREE
		[Symbol]	SHRUB

BUREAU OF ENGINEERING

DEPARTMENT OF PUBLIC WORKS
TED ALLEN, P.E.
 SURVEY DIVISION

SURVEYOR: MARK KINDIG
 FIELD SURVEYOR: RAUL RODRIGUEZ
 DRAWN BY: TERENCE RIVERA
 CHECKED BY: RAUL RODRIGUEZ
 APPROVED BY:

CITY OF LOS ANGELES
 VERTICAL CONTROL: FB#41156 POF 191 - 194 // BM 12-20086 NAMD 1989; 2009 ADJ
 HORIZONTAL CONTROL: FB#41156 POF 191 - 194

DATE: 2/17/2023
 P.L.S.: 7905
 DATE: 5/17/2022
 DATE: 5/23/2022

SHEET TITLE:
 PROJECT:
 ADDRESS:

SITE SURVEY, SHEET 1
 RIO DE LOS ANGELES STATE PARK FIELDS
 MAINTENANCE IMPROVEMENTS PROJECT
 1900 NORTH SAN FERNANDO ROAD,
 LOS ANGELES, 90065

WORK ORDER NO.
 DRAWING NO.

E1908950
 L101

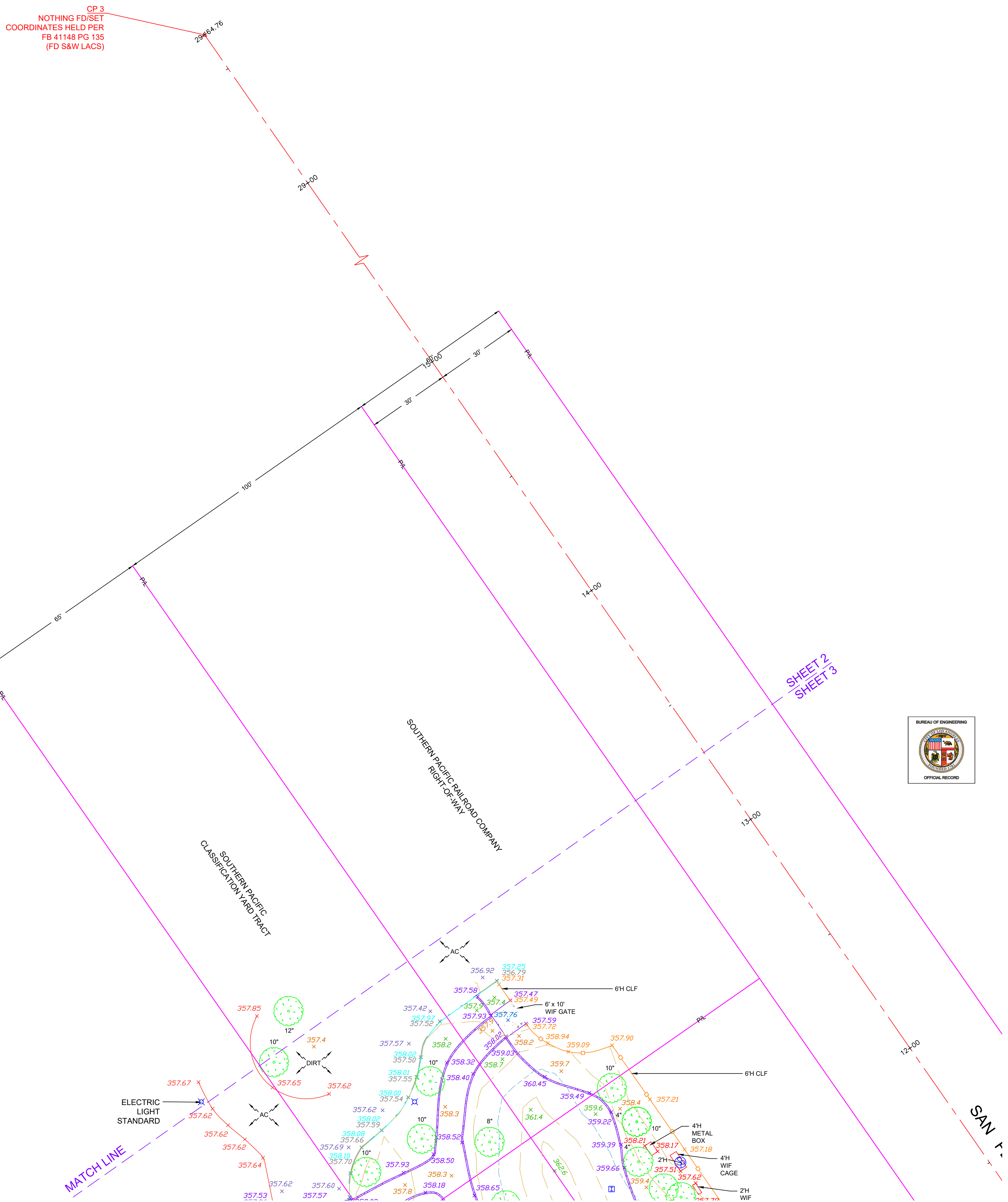
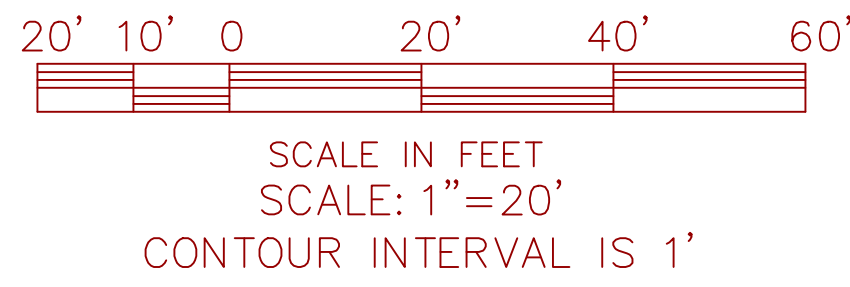
SURVEY NO.
 INDEX NO.

103986
 103986

SHEET 23 OF 100 SHEETS

RP-300125

NOTE:
STREET RIGHT OF WAY
THE STREET RIGHT OF WAYS SHOWN HEREON WITH DIMENSIONED WIDTHS WERE ESTABLISHED BASED ON A FIELD SURVEY BY RETRACEMENT OF CITY ENGINEER FIELD BOOKS AS REFERENCED HEREON. OTHERWISE THE STREET RIGHT OF WAYS SHOWN HEREON WERE IMPORTED FROM ELECTRONIC CADASTRAL MAP 147A215&147A217 AND ARE A GRAPHIC REPRESENTATION OF THE APPROXIMATE LOCATION.



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SYMBOL LEGEND	
	ELECTRIC PULLBOX
	IRRIGATION CONTROL BOX
	STAND PIPE
	SURFACE DRAIN
	LIGHT STANDARD
	SIGN
	CLEAN OUT
	CONTROL POINT
	MONITORING WELL
	TREE
	PALM TREE
	SHRUB
	CONCRETE

LEGEND LINE TYPE	
	BUILDING
	STREET CONTROL LINE
	CONTOUR LINE
	CONTOUR INDEX LINE
	CURB
	FLOW LINE
	SIDE WALK
	EDGE OF CONCRETE
	BERM
	GRADE CHANGE
	CHAIN LINK FENCE
	WROUGHT IRON FENCE
	PROPERTY LINE

LEGEND ABBREVIATIONS	
AC	ASPHALT CONCRETE
BO	BAD ORDER
BLDG	BUILDING
CL	CONTROL LINE
CLF	CHAIN LINK FENCE
CO	CLEAN OUT
CONC	CONCRETE
CP	CONTROL POINT
DHWY	DRIVEWAY
FB	FIELD BOOK
H	HEIGHT
L&TAG	LEAD AND TAG
LACS	LOS ANGELES CITY SURVEYOR
PL	PROPERTY LINE
PG	PAGE
RMP	RAMP
S&W	SPIKE AND WASHER
SD	SURFACE DRAIN
SSM	STANDARD SURVEY MONUMENT
W	WIDTH
WIF	WROUGHT IRON FENCE

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12345678910111213141516

KJIHGFEDCBA

12345678910111213141516

BUREAU OF ENGINEERING

DATE: _____

NO. REVISIONS: _____

ENGINEERING

CITY OF LOS ANGELES

SURVEY NO. 103986

INDEX NO. _____

DEPARTMENT OF PUBLIC WORKS

TED ALLEN, P.E.

SURVEY DIVISION

SURVEYOR: MARK KINDING

FIELD SURVEYOR: RAUL RODRIGUEZ

DRAWN BY: TERENCE RIVERA

CHECKED BY: RAUL RODRIGUEZ

APPROVED BY: _____

DATE: 2/17/2023

P.L.S.: 7805

DATE: 5/17/2023

DATE: 5/23/2023

VERTICAL CONTROL: FBH 41156 POF 161 - 164 // BM 12-20086 NAMD 1988 - 2000 ADJ

HORIZONTAL CONTROL: FBH 41156 POF 161 - 164

SHEET TITLE: SITE SURVEY SHEET 2

PROJECT: RIO DE LOS ANGELES STATE PARK FIELDS MAINTENANCE IMPROVEMENTS PROJECT

ADDRESS: 1900 NORTH SAN FERNANDO ROAD, LOS ANGELES, 90066

WORK ORDER NO. E1908950

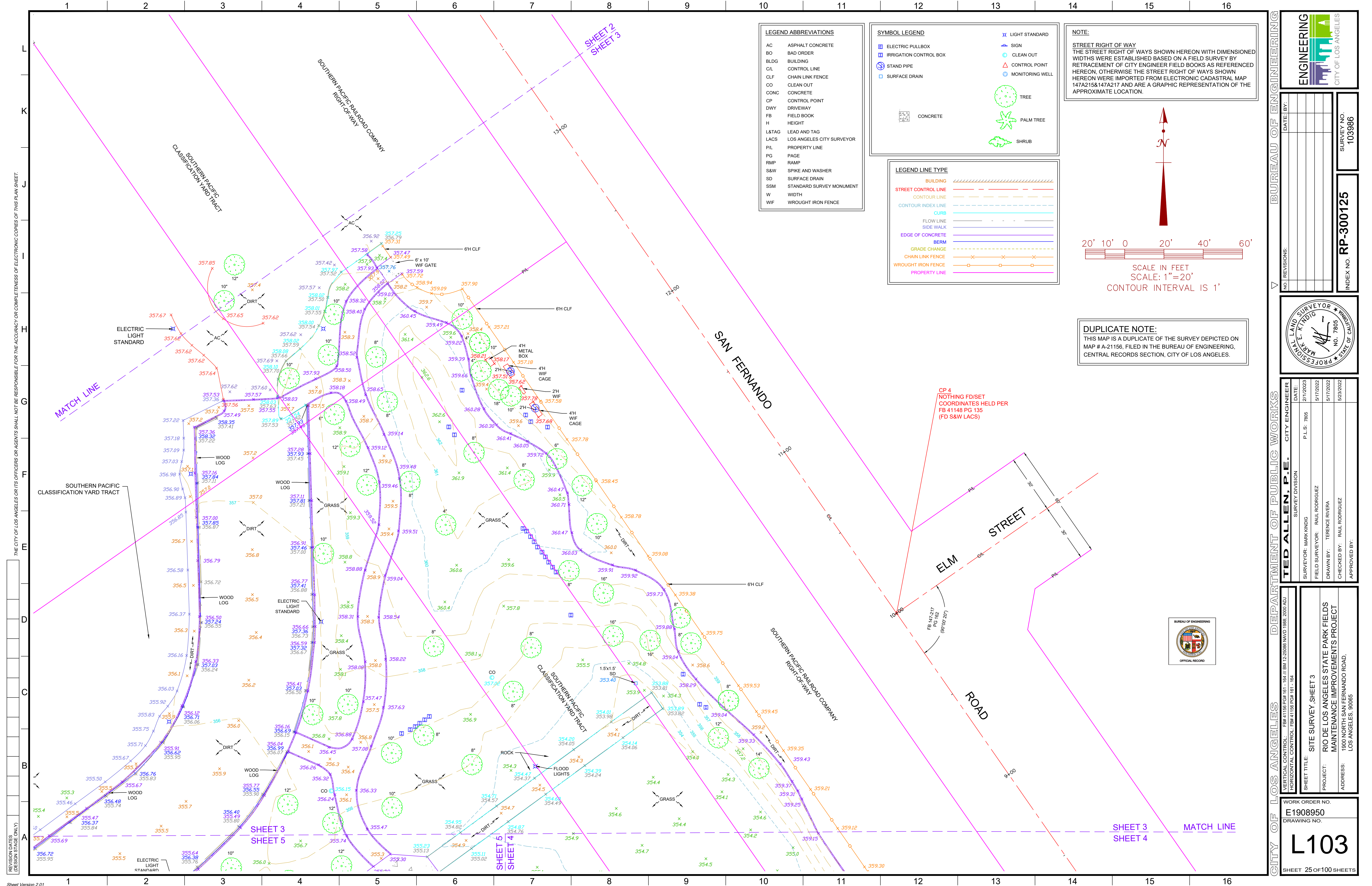
DRAWING NO. L102

SHEET 24 OF 100 SHEETS

BUREAU OF ENGINEERING

OFFICIAL RECORD

RP-300125



LEGEND ABBREVIATIONS

AC	ASPHALT CONCRETE
BO	BAD ORDER
BLDG	BUILDING
CL	CONTROL LINE
CLF	CHAIN LINK FENCE
CO	CLEAN OUT
CONC	CONCRETE
CP	CONTROL POINT
DWY	DRIVEWAY
FB	FIELD BOOK
H	HEIGHT
L&TAG	LEAD AND TAG
LACS	LOS ANGELES CITY SURVEYOR
P/L	PROPERTY LINE
PG	PAGE
RMP	RAMP
S&W	SPIKE AND WASHER
SD	SURFACE DRAIN
SSM	STANDARD SURVEY MONUMENT
W	WIDTH
WIF	WROUGHT IRON FENCE

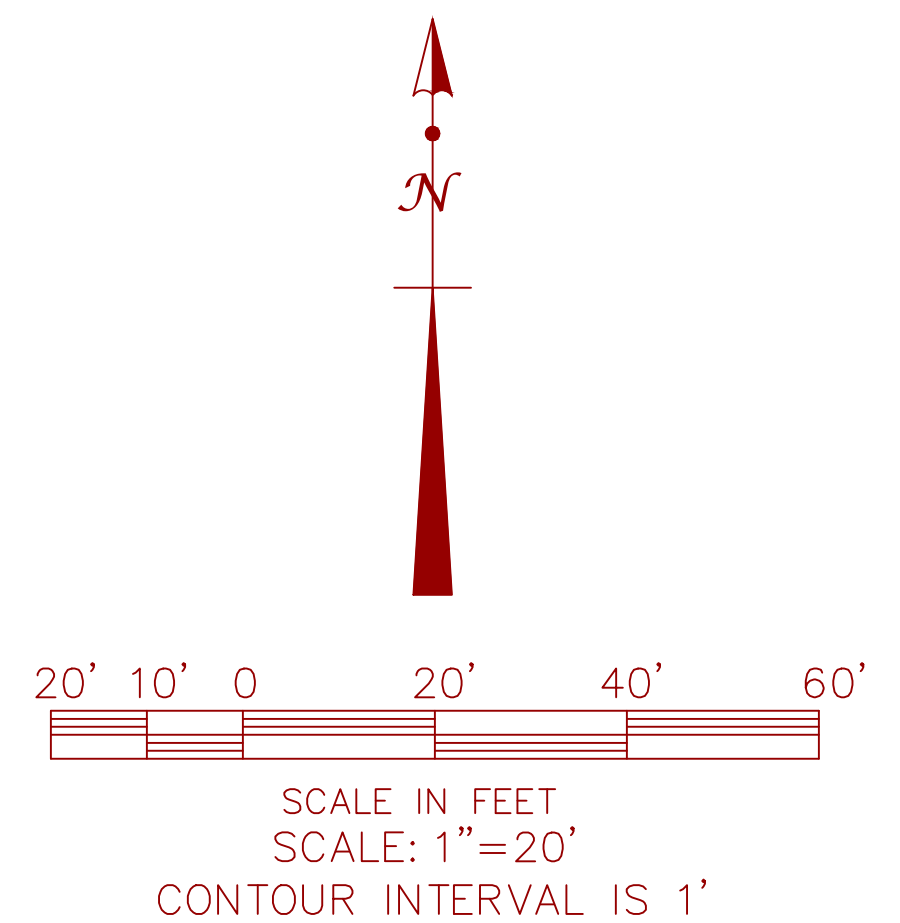
SYMBOL LEGEND

	ELECTRIC PULLBOX
	IRRIGATION CONTROL BOX
	STAND PIPE
	SURFACE DRAIN
	LIGHT STANDARD
	SIGN
	CLEAN OUT
	CONTROL POINT
	MONITORING WELL
	TREE
	PALM TREE
	SHRUB

LEGEND LINE TYPE

	BUILDING
	STREET CONTROL LINE
	CONTOUR LINE
	CONTOUR INDEX LINE
	CURB
	FLOW LINE
	SIDE WALK
	EDGE OF CONCRETE
	BERM
	GRADE CHANGE
	CHAIN LINK FENCE
	WROUGHT IRON FENCE
	PROPERTY LINE

NOTE:
STREET RIGHT OF WAY
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DUPLICATE NOTE:
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BUREAU OF ENGINEERING
CITY OF LOS ANGELES

DEPARTMENT OF PUBLIC WORKS
TED ALLEN, P.E.
CITY ENGINEER

DATE: 2/17/2023
P.L.S.: 7905

SURVEYOR: MARK KINDIG
FIELD SURVEYOR: RAUL RODRIGUEZ

DRAWN BY: TERENCE RIVERA
CHECKED BY: RAUL RODRIGUEZ

APPROVED BY:

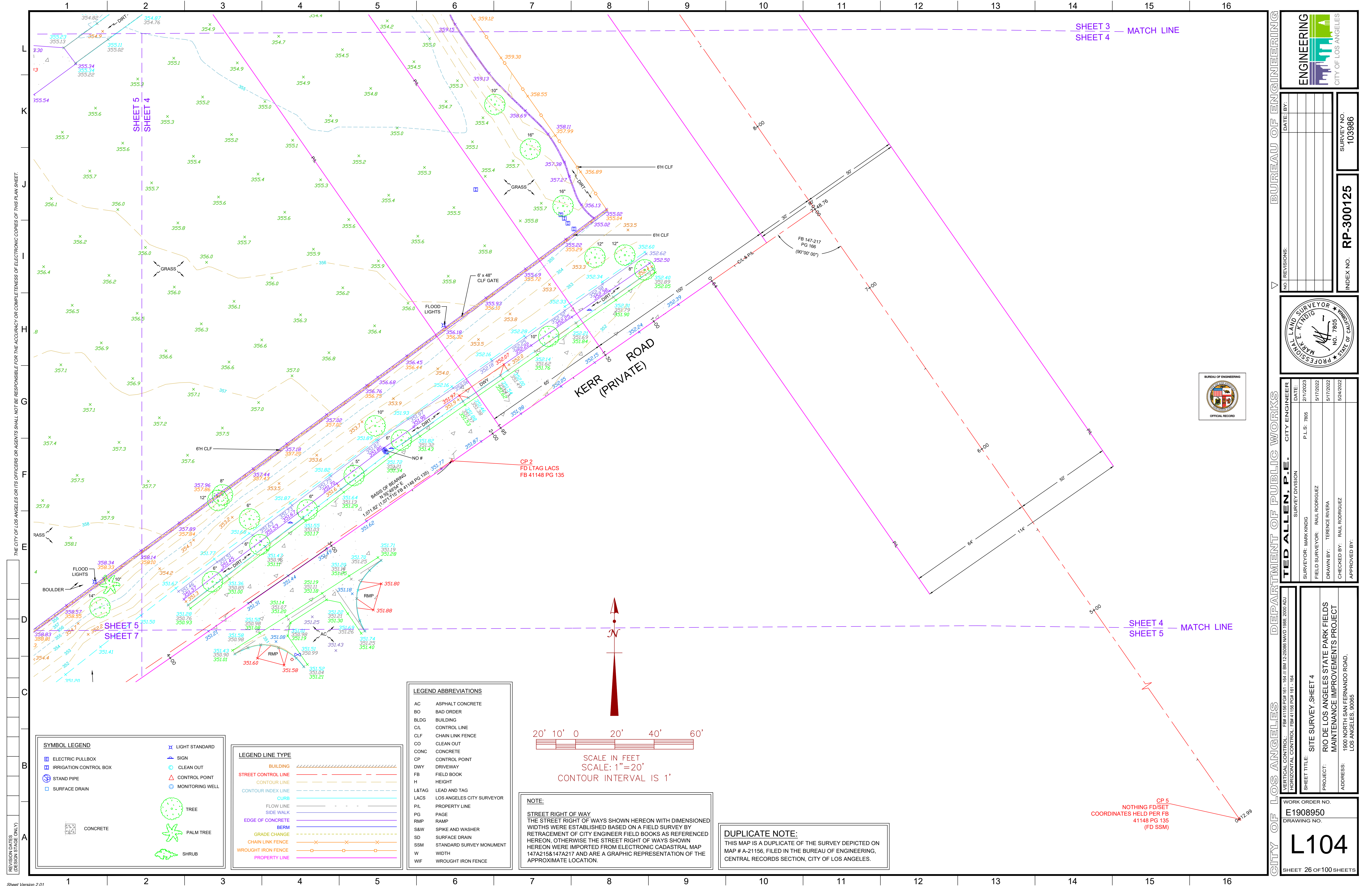
VERTICAL CONTROL: FB 41156 PG# 151 - 154 / BM 12-25088 NAMD 1988; 2000 ADJ
HORIZONTAL CONTROL: FB 41156 PG# 151 - 154

SHEET TITLE: SITE SURVEY SHEET 3
PROJECT: RIO DE LOS ANGELES STATE PARK FIELDS MAINTENANCE IMPROVEMENTS PROJECT
ADDRESS: 1800 NORTH SAN FERNANDO ROAD, LOS ANGELES, 90065

WORK ORDER NO.: E1908950
DRAWING NO.: L103

SHEET 25 OF 100 SHEETS

INDEX NO.: RP-300125
SURVEY NO.: 103986



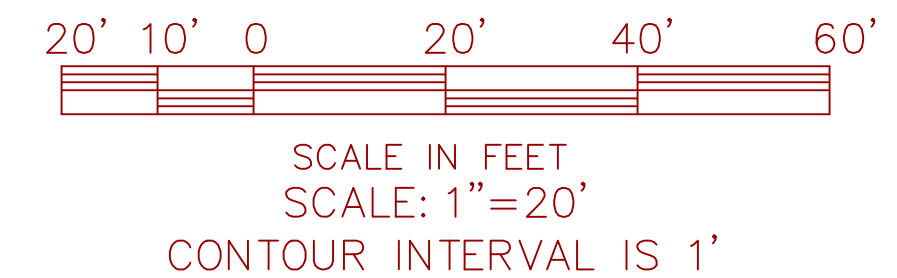
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Sheet Version 2.01

SYMBOL LEGEND	
	ELECTRIC PULL BOX
	IRRIGATION CONTROL BOX
	STAND PIPE
	SURFACE DRAIN
	LIGHT STANDARD
	SIGN
	CLEAN OUT
	CONTROL POINT
	MONITORING WELL
	CONCRETE
	TREE
	PALM TREE
	SHRUB

LEGEND LINE TYPE	
	BUILDING
	STREET CONTROL LINE
	CONTOUR LINE
	CONTOUR INDEX LINE
	CURB
	FLOW LINE
	SIDE WALK
	EDGE OF CONCRETE
	BERM
	GRADE CHANGE
	CHAIN LINK FENCE
	WROUGHT IRON FENCE
	PROPERTY LINE

LEGEND ABBREVIATIONS	
AC	ASPHALT CONCRETE
BO	BAD ORDER
BLDG	BUILDING
CL	CONTROL LINE
CLF	CHAIN LINK FENCE
CO	CLEAN OUT
CONC	CONCRETE
CP	CONTROL POINT
DWY	DRIVEWAY
FB	FIELD BOOK
H	HEIGHT
L&TAG	LEAD AND TAG
LACS	LOS ANGELES CITY SURVEYOR
PIL	PROPERTY LINE
PG	PAGE
RMP	RAMP
S&W	SPIKE AND WASHER
SD	SURFACE DRAIN
SSM	STANDARD SURVEY MONUMENT
W	WIDTH
WIF	WROUGHT IRON FENCE



NOTE:
STREET RIGHT OF WAY
THE STREET RIGHT OF WAYS SHOWN HEREON WITH DIMENSIONED WIDTHS WERE ESTABLISHED BASED ON A FIELD SURVEY BY RETRACEMENT OF CITY ENGINEER FIELD BOOKS AS REFERENCED HEREON, OTHERWISE THE STREET RIGHT OF WAYS SHOWN HEREON WERE IMPORTED FROM ELECTRONIC CADASTRAL MAP 147A215&147A217 AND ARE A GRAPHIC REPRESENTATION OF THE APPROXIMATE LOCATION.

DUPLICATE NOTE:
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BUREAU OF ENGINEERING
CITY OF LOS ANGELES

DATE: _____

NO. REVISIONS: _____

SURVEY NO. 103986

INDEX NO. RP-300125

OFFICIAL RECORD

DATE: 2/1/2023

P.L.S.: 7805

SURVEYOR: MARK KINDIG

FIELD SURVEYOR: RAUL RODRIGUEZ

DRAWN BY: TERENCE RIVERA

CHECKED BY: RAUL RODRIGUEZ

APPROVED BY: _____

VERTICAL CONTROL: FB 41148 PG 135

HORIZONTAL CONTROL: FB 41148 PG 135

WORK ORDER NO. E1908950

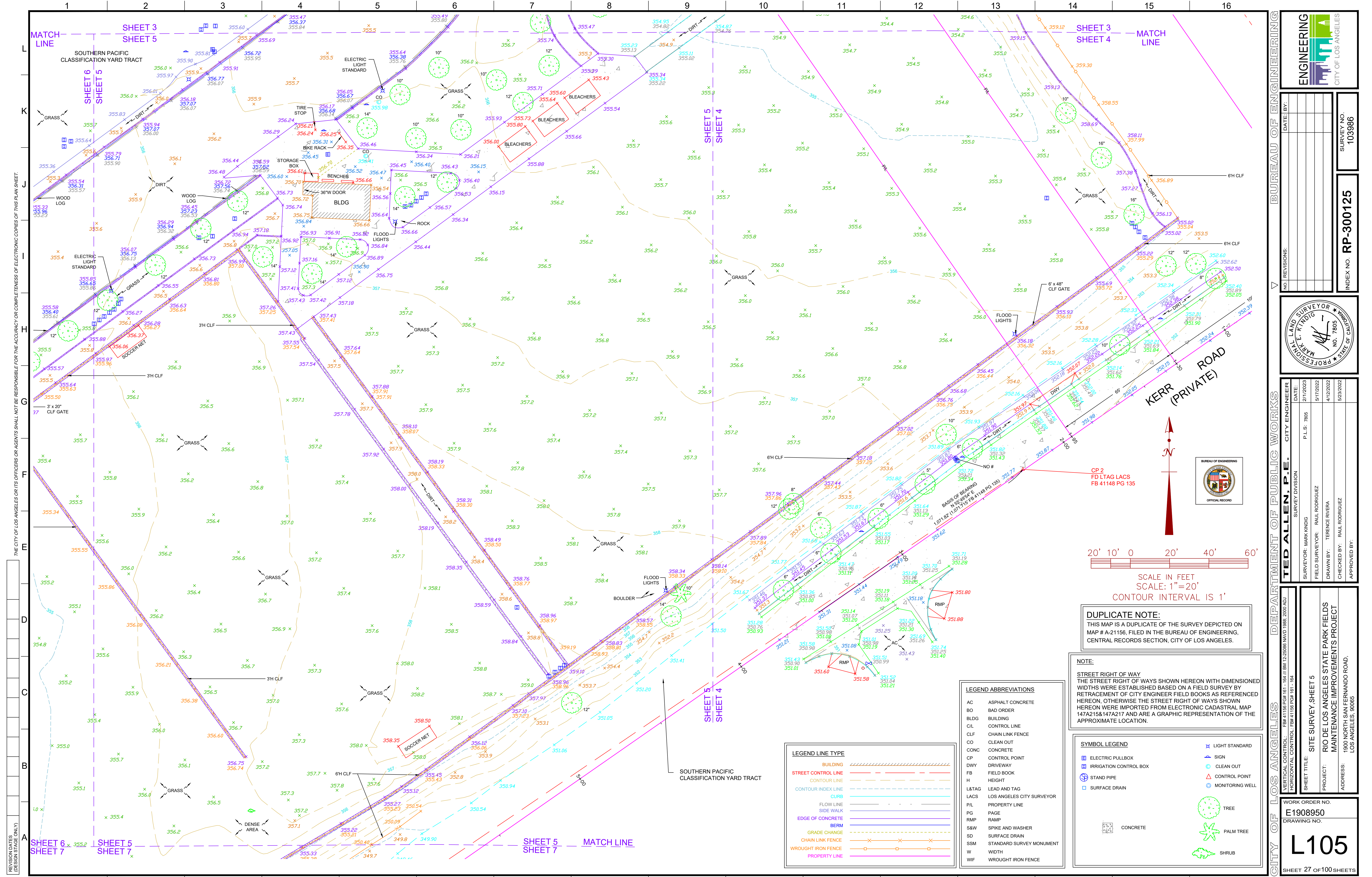
DRAWING NO. L104

SHEET TITLE: SITE SURVEY SHEET 4

PROJECT: RIO DE LOS ANGELES STATE PARK FIELDS MAINTENANCE IMPROVEMENTS PROJECT

ADDRESS: 1800 NORTH SAN FERNANDO ROAD, LOS ANGELES, 90065

SHEET 26 OF 100 SHEETS



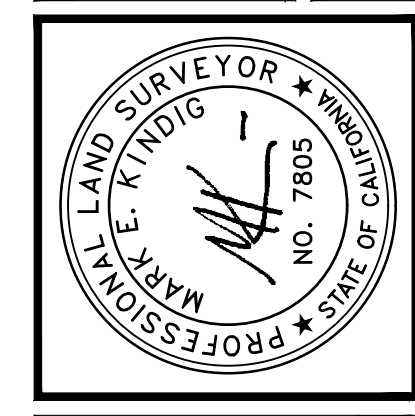
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Sheet Version 2.01



DATE: _____
NO. REVISIONS: _____

INDEX NO. **RP-300125**
SURVEY NO. 703986



TED ALLEN, P.E. CITY ENGINEER
SURVEY DIVISION
SURVEYOR: MARK KINDIG
FIELD SURVEYOR: RAUL RODRIGUEZ
DRAWN BY: TERENCE RIVERA
CHECKED BY: RAUL RODRIGUEZ
APPROVED BY: _____

VERTICAL CONTROL: FB# 41148 PG# 151 - 154 / BM 12-26088 NAMD 1988: 2000 ADJ
HORIZONTAL CONTROL: FB# 41148 PG# 151 - 154
SHEET TITLE: **SITE SURVEY SHEET 5**
PROJECT: **RIO DE LOS ANGELES STATE PARK FIELDS MAINTENANCE IMPROVEMENTS PROJECT**
ADDRESS: 1900 NORTH SAN FERNANDO ROAD, LOS ANGELES, 90065

WORK ORDER NO. **E1908950**
DRAWING NO. **L105**
SHEET 27 OF 100 SHEETS

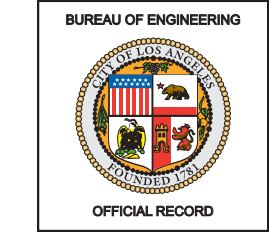
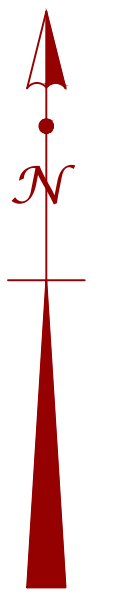
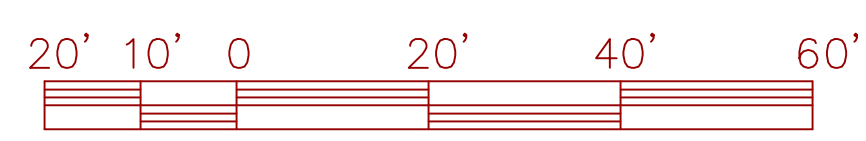
DUPLICATE NOTE:
THIS MAP IS A DUPLICATE OF THE SURVEY DEPICTED ON MAP # A-21156, FILED IN THE BUREAU OF ENGINEERING, CENTRAL RECORDS SECTION, CITY OF LOS ANGELES.

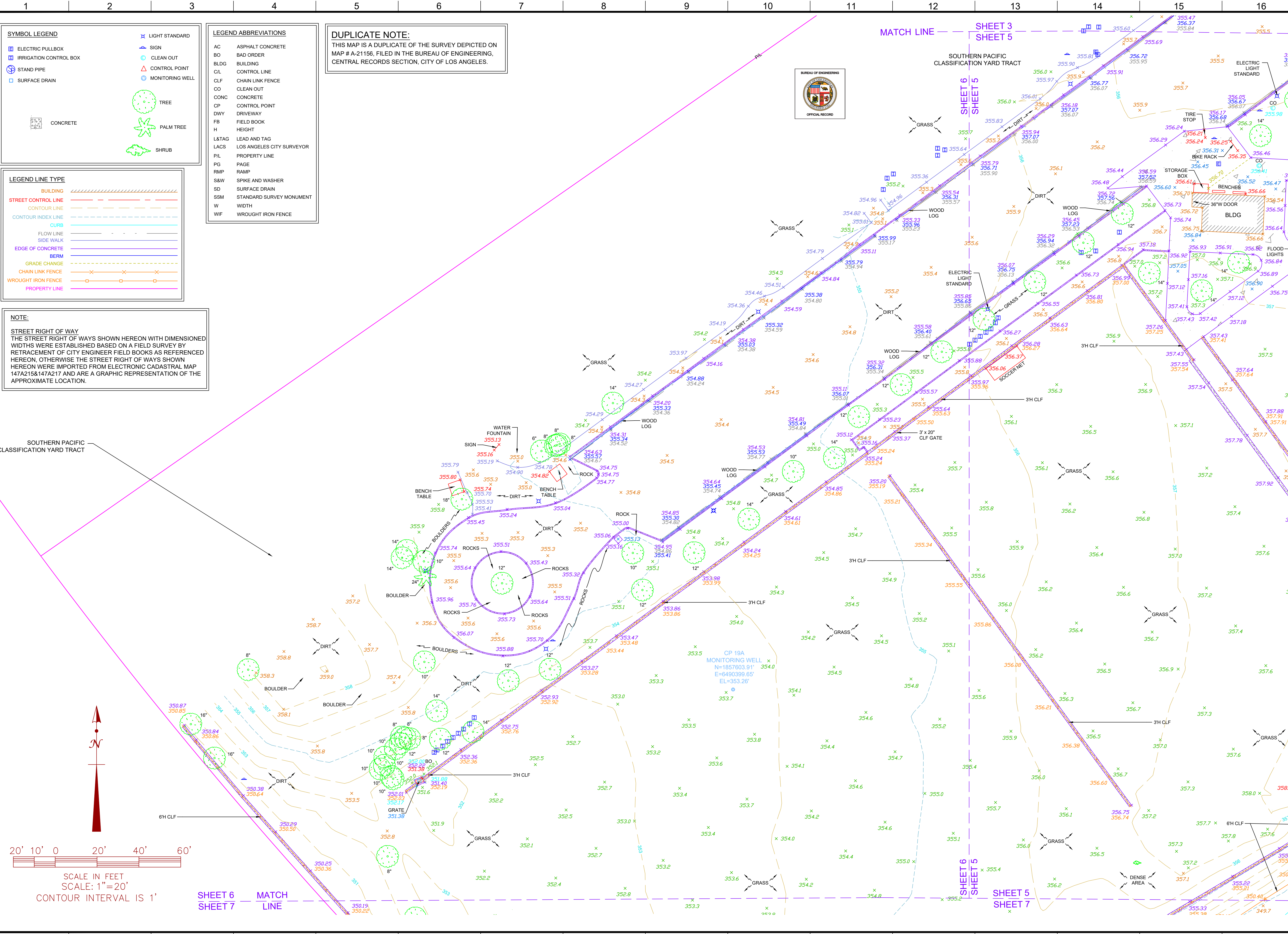
NOTE:
STREET RIGHT OF WAY
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SYMBOL LEGEND	
	ELECTRIC PULLBOX
	IRRIGATION CONTROL BOX
	STAND PIPE
	SURFACE DRAIN
	CONCRETE
	LIGHT STANDARD
	SIGN
	CLEAN OUT
	CONTROL POINT
	MONITORING WELL
	TREE
	PALM TREE
	SHRUB

LEGEND ABBREVIATIONS	
AC	ASPHALT CONCRETE
BO	BAD ORDER
BLDG	BUILDING
CL	CONTROL LINE
CLF	CHAIN LINK FENCE
CO	CLEAN OUT
CONC	CONCRETE
CP	CONTROL POINT
DWY	DRIVEWAY
FB	FIELD BOOK
H	HEIGHT
L&TAG	LEAD AND TAG
LACS	LOS ANGELES CITY SURVEYOR
P/L	PROPERTY LINE
PG	PAGE
RMP	RAMP
SW	SPIKE AND WASHER
SD	SURFACE DRAIN
SSM	STANDARD SURVEY MONUMENT
W	WIDTH
WIF	WROUGHT IRON FENCE

LEGEND LINE TYPE	
	BUILDING
	STREET CONTROL LINE
	CONTOUR LINE
	CONTOUR INDEX LINE
	CURB
	FLOW LINE
	SIDE WALK
	EDGE OF CONCRETE
	BERM
	GRADE CHANGE
	CHAIN LINK FENCE
	WROUGHT IRON FENCE
	PROPERTY LINE





SYMBOL LEGEND

	ELECTRIC PULL BOX		LIGHT STANDARD
	IRRIGATION CONTROL BOX		SIGN
	STAND PIPE		CLEAN OUT
	SURFACE DRAIN		CONTROL POINT
	CONCRETE		MONITORING WELL
	TREE		
	PALM TREE		
	SHRUB		

LEGEND ABBREVIATIONS

AC	ASPHALT CONCRETE
BO	BAD ORDER
BLDG	BUILDING
CL	CONTROL LINE
CLF	CHAIN LINK FENCE
CO	CLEAN OUT
CONC	CONCRETE
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DWY	DRIVEWAY
FB	FIELD BOOK
H	HEIGHT
L&TAG	LEAD AND TAG
LACS	LOS ANGELES CITY SURVEYOR
PL	PROPERTY LINE
PG	PAGE
RMP	RAMP
S&W	SPIKE AND WASHER
SD	SURFACE DRAIN
SSM	STANDARD SURVEY MONUMENT
W	WIDTH
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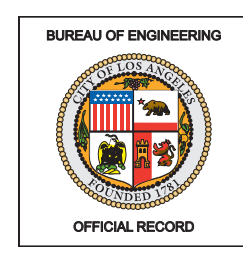
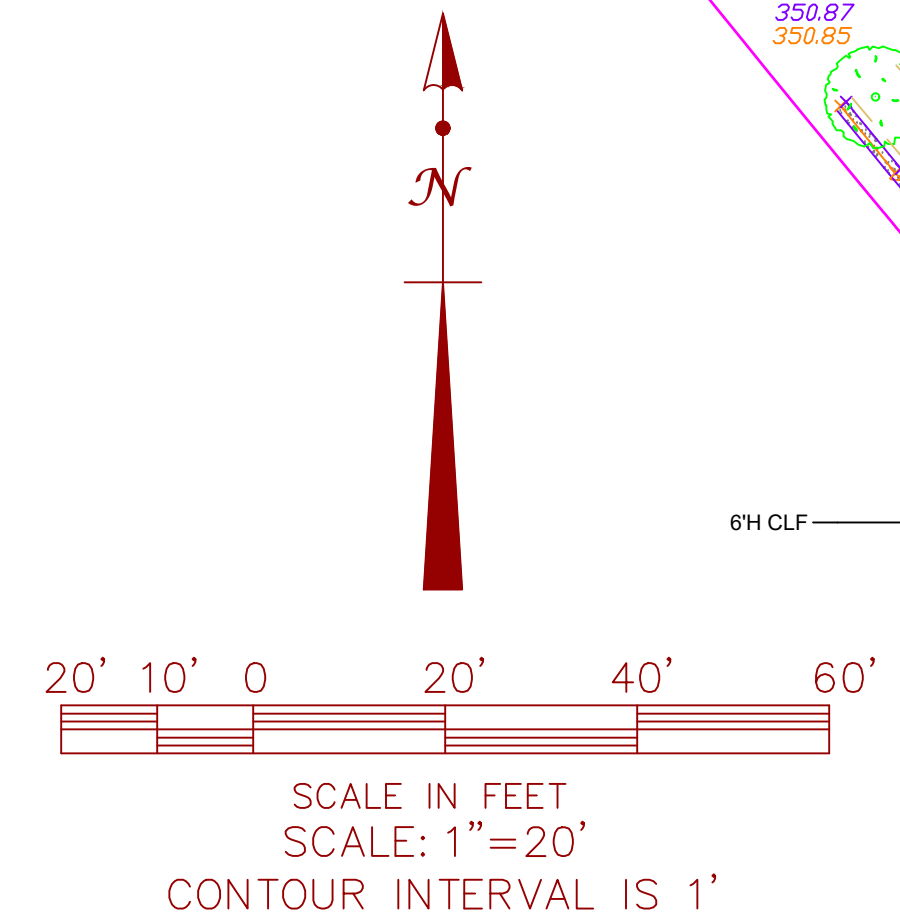
DUPLICATE NOTE:
 THIS MAP IS A DUPLICATE OF THE SURVEY DEPICTED ON MAP # A-21156, FILED IN THE BUREAU OF ENGINEERING, CENTRAL RECORDS SECTION, CITY OF LOS ANGELES.

LEGEND LINE TYPE

	BUILDING
	STREET CONTROL LINE
	CONTOUR LINE
	CONTOUR INDEX LINE
	CURB
	FLOW LINE
	SIDE WALK
	EDGE OF CONCRETE
	BERM
	GRADE CHANGE
	CHAIN LINK FENCE
	WROUGHT IRON FENCE
	PROPERTY LINE

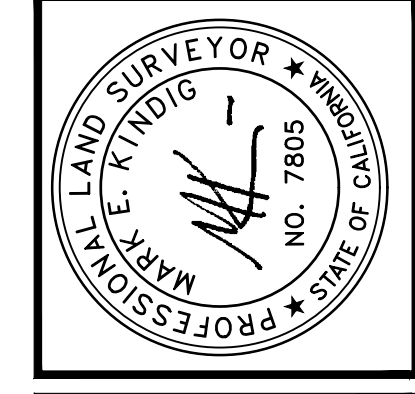
NOTE:
 STREET RIGHT OF WAY
 THE STREET RIGHT OF WAYS SHOWN HEREON WITH DIMENSIONED WIDTHS WERE ESTABLISHED BASED ON A FIELD SURVEY BY RETRACEMENT OF CITY ENGINEER FIELD BOOKS AS REFERENCED HEREON. OTHERWISE THE STREET RIGHT OF WAYS SHOWN HEREON WERE IMPORTED FROM ELECTRONIC CADASTRAL MAP 147A215&147A217 AND ARE A GRAPHIC REPRESENTATION OF THE APPROXIMATE LOCATION.

SOUTHERN PACIFIC CLASSIFICATION YARD TRACT



NO. REVISIONS:

DATE: _____



DEPARTMENT OF PUBLIC WORKS
TED ALLEN, P.E. CITY ENGINEER

SURVEYOR: MARK KINDIG	DATE: 2/17/2023
FIELD SURVEYOR: RAUL RODRIGUEZ	P.L.S.: 7805
DRAWN BY: TERENCE RIVERA	5/17/2023
CHECKED BY: RAUL RODRIGUEZ	5/24/2023
APPROVED BY:	

CITY OF LOS ANGELES

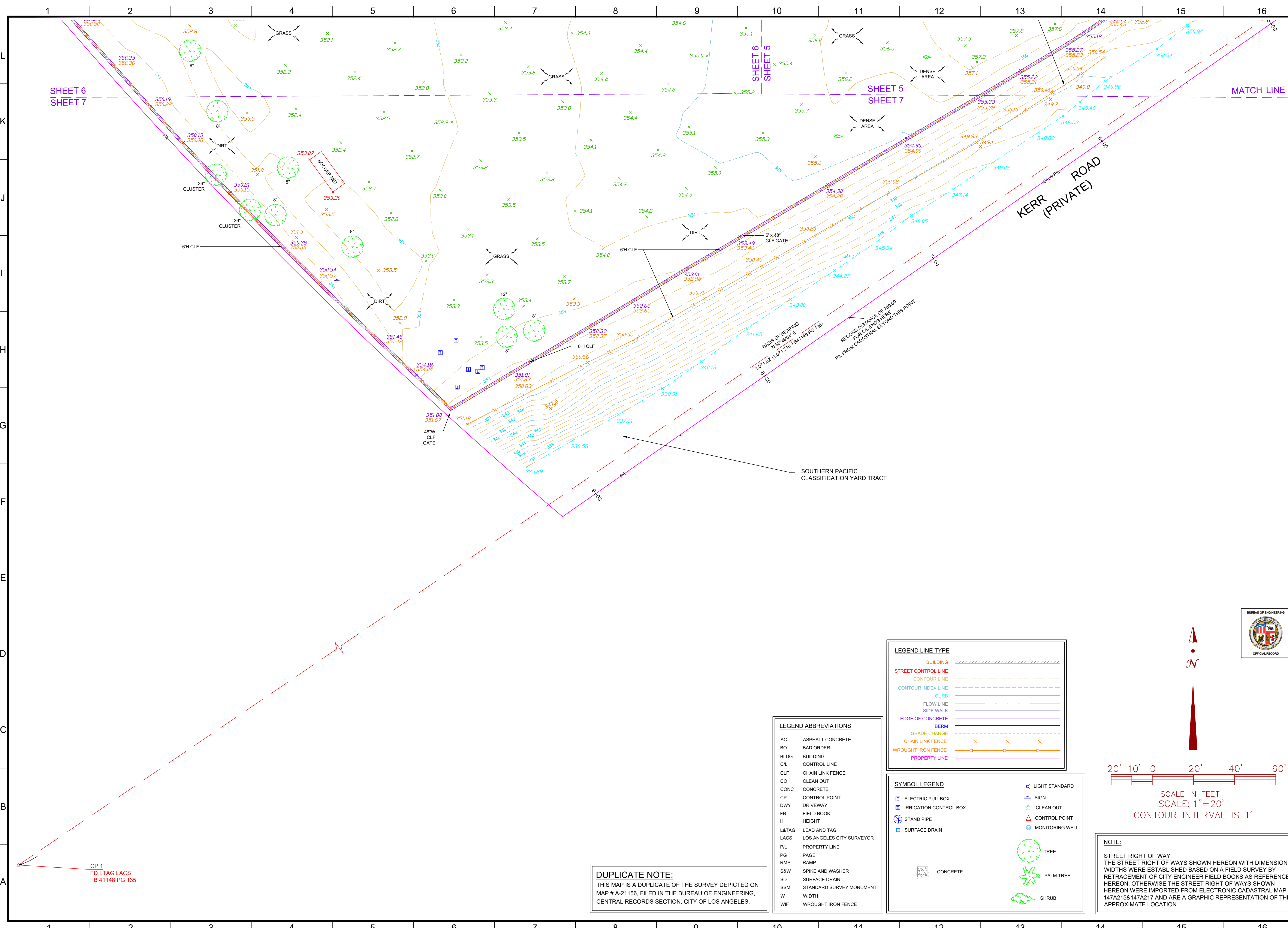
SHEET TITLE: SITE SURVEY SHEET 6
PROJECT: RIO DE LOS ANGELES STATE PARK FIELDS MAINTENANCE IMPROVEMENTS PROJECT
ADDRESS: 1900 NORTH SAN FERNANDO ROAD, LOS ANGELES, 90065

WORK ORDER NO. E1908950
 DRAWING NO. L106
 SHEET 28 OF 100 SHEETS

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

REVISIONS ENTERED (REVISION NUMBER ONLY)



DUPLICATE NOTE:
THIS MAP IS A DUPLICATE OF THE SURVEY DEPICTED ON MAP # A-21156, FILED IN THE BUREAU OF ENGINEERING, CENTRAL RECORDS SECTION, CITY OF LOS ANGELES.

LEGEND ABBREVIATIONS

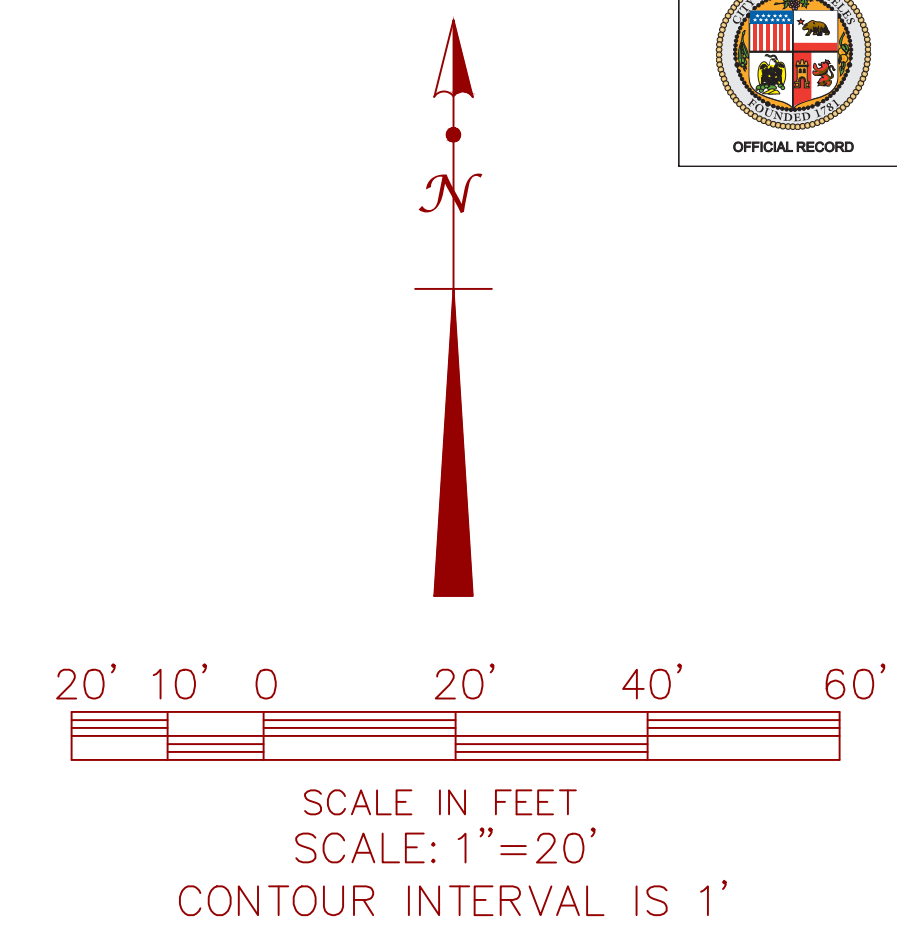
AC	ASPHALT CONCRETE
BO	BAD ORDER
BLDG	BUILDING
CL	CONTROL LINE
CLF	CHAIN LINK FENCE
CO	CLEAN OUT
CONC	CONCRETE
CP	CONTROL POINT
DWY	DRIVEWAY
FB	FIELD BOOK
H	HEIGHT
L&TAG	LEAD AND TAG
LACS	LOS ANGELES CITY SURVEYOR
P/L	PROPERTY LINE
PG	PAGE
RMP	RAMP
S&W	SPIKE AND WASHER
SD	SURFACE DRAIN
SSM	STANDARD SURVEY MONUMENT
W	WIDTH
WIF	WROUGHT IRON FENCE

LEGEND LINE TYPE

	BUILDING
	STREET CONTROL LINE
	CONTOUR LINE
	CONTOUR INDEX LINE
	FLOW LINE
	SIDE WALK
	EDGE OF CONCRETE
	BERM
	GRADE CHANGE
	CHAIN LINK FENCE
	WROUGHT IRON FENCE
	PROPERTY LINE

SYMBOL LEGEND

	ELECTRIC PULLBOX
	IRRIGATION CONTROL BOX
	STAND PIPE
	SURFACE DRAIN
	LIGHT STANDARD
	SIGN
	CLEAN OUT
	CONTROL POINT
	MONITORING WELL
	CONCRETE
	TREE
	PALM TREE
	SHRUB



NOTE:
STREET RIGHT OF WAY
THE STREET RIGHT OF WAYS SHOWN HEREON WITH DIMENSIONED WIDTHS WERE ESTABLISHED BASED ON A FIELD SURVEY BY RETRACEMENT OF CITY ENGINEER FIELD BOOKS AS REFERENCED HEREON, OTHERWISE THE STREET RIGHT OF WAYS SHOWN HEREON WERE IMPORTED FROM ELECTRONIC CADASTRAL MAP 147A215&147A217 AND ARE A GRAPHIC REPRESENTATION OF THE APPROXIMATE LOCATION.



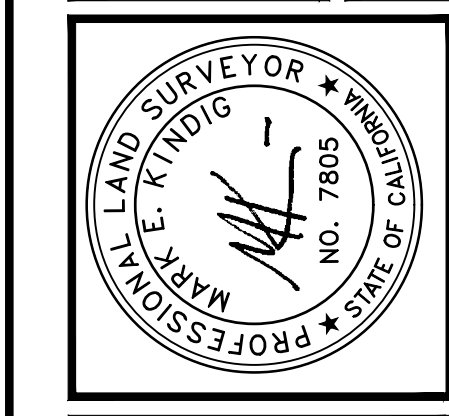
BUREAU OF ENGINEERING

DATE: BY:

NO. REVISIONS:

INDEX NO. **RP-300125**

SURVEY NO. **103986**



DEPARTMENT OF PUBLIC WORKS

TED ALLEN, P.E. CITY ENGINEER

SURVEYOR: MARK KINDIG

FIELD SURVEYOR: RAUL RODRIGUEZ

DRAWN BY: TERENCE RIVERA

CHECKED BY: RAUL RODRIGUEZ

APPROVED BY:

DATE: 2/17/2023

P.L.S.: 7905

5/17/2023

5/23/2023

CITY OF LOS ANGELES

WORK ORDER NO. **E1908950**

DRAWING NO. **L107**

SHEET TITLE: **SITE SURVEY SHEET 7**

PROJECT: **RIO DE LOS ANGELES STATE PARK FIELDS MAINTENANCE IMPROVEMENTS PROJECT**

ADDRESS: **1900 NORTH SAN FERNANDO ROAD, LOS ANGELES, 90065**

REVISION DATES (DESIGN STAGE ONLY)

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

DEMOLITION NOTES:

- CONTRACTOR SHALL MEET WITH PROJECT MANAGER TO REVIEW & VERIFY EXISTING ELEMENTS TO BE DEMOLISHED/PROTECTED PRIOR TO COMMENCEMENT OF WORK.
- ALL REMOVED MATERIAL SHALL BE PROPERLY DISPOSED OF AT AN APPROPRIATE LOCATION OFF-SITE. ALL DISPOSAL SHALL BE IN ACCORDANCE WITH CODES AND ORDINANCES GOVERNING LOCATIONS AND METHODS OF DISPOSAL.
- LOCATIONS OF EXISTING EQUIPMENT ARE SHOWN FOR THE LEGIBILITY OF THE DRAWING. THE CONTRACTOR SHALL VERIFY EXACT LOCATION FROM SITE SURVEY AND IN THE FIELD. CONTRACTOR SHALL IMMEDIATELY BRING TO THE ATTENTION OF THE PROJECT MANAGER ANY CONFLICTS.
- CONTRACTOR SHALL NOTIFY UNDERGROUND SERVICE ALERT 48 HOURS IN ADVANCE BEFORE START OF CONSTRUCTION (DIAL 811) AND OBTAIN AN UNDERGROUND SERVICE ALERT INQUIRY I.D. NUMBER BY CALLING 1-800-422-4133.
- EXISTING UNDERGROUND UTILITIES SHALL BE PROTECTED IN PLACE UNLESS OTHERWISE SPECIFIED PER PLAN. THE LOCATIONS SHOWN ARE APPROXIMATE AND SHALL BE CONFIRMED IN THE FIELD BY THE CONTRACTOR. THE CONTRACTOR SHALL ASCERTAIN THE TRUE VERTICAL AND HORIZONTAL LOCATION AND SIZE OF ANY UNDERGROUND UTILITIES PRIOR TO EXCAVATION AND SHALL BE RESPONSIBLE FOR DAMAGE TO ANY PUBLIC OR PRIVATE UTILITIES, SHOWN OR NOT SHOWN HEREON. THE CONTRACTOR SHALL BE RESPONSIBLE FOR MAKING ANY NECESSARY ADJUSTMENTS TO ALIGNMENT AND/OR GRADE OF THE PROPOSED IMPROVEMENTS REQUIRED TO AVOID EXISTING UTILITIES.
- THE CONTRACTOR SHALL NOT WILLFULLY PROCEED WITH DEMOLITION AS SHOWN ON PLANS WHEN IT IS OBVIOUS THAT CONDITIONS AND/OR GRADE DIFFERENCES EXIST THAT MAY NOT HAVE BEEN KNOWN DURING DESIGN. SUCH CONDITIONS SHALL BE IMMEDIATELY BROUGHT TO THE ATTENTION OF THE PROJECT MANAGER.
- ALL EXISTING SITE ELEMENTS (INCLUDING BUT NOT LIMITED TO LIGHTING STANDARDS, TRAFFIC SIGNS, ELECTRICAL PULLBOX, CATCH BASIN, WATER METER, DWP WATER VALVES, POWER POLE & GUY WIRE, IRRIGATION CONTROL BOX, CONCRETE CURBS) NOT INDICATED ON PLAN FOR REMOVAL SHALL BE PROTECTED IN PLACE.

- EXISTING STRUCTURES AND SUBSTRUCTURES WHICH ARE INDICATED TO BE REMOVED IN THIS CONSTRUCTION DOCUMENT SHALL BE TOTALLY REMOVED AND DISPOSED OF OFFSITE, UNLESS OTHERWISE INDICATED. UNDOCUMENTED EXISTING FACILITIES WHICH ARE DISCOVERED DURING CONSTRUCTION (INCLUDING WALLS, FOOTINGS AND FOUNDATIONS) SHALL BE REPORTED TO PROJECT MANAGER AND COORDINATED IN ADVANCE AS TO THEIR REMOVAL. CONTRACTOR SHALL NOTIFY THE PROJECT MANAGER IN WRITING PRIOR TO COMMENCING THE WORK.
- ALL COMPONENTS OF ADJACENT IRRIGATION SYSTEMS TO REMAIN WHICH ARE LOCATED OUTSIDE L.O.W. (VALVES, HEADS, LATERALS, CONTROL WIRING, ETC.) SHALL BE PRESERVED AND RETAINED. CONTRACTOR IS RESPONSIBLE FOR ANY DAMAGE TO ADJACENT IRRIGATION SYSTEMS AND SHALL REPAIR AT NO COST TO THE CITY.
- ALL ADJACENT IRRIGATION SYSTEMS WHICH ARE LOCATED OUTSIDE L.O.W. WHEN PRESENT SHALL REMAIN OPERABLE DURING ALL PHASES OF CONSTRUCTION, INCLUDING DEMOLITION. IF IT CANNOT BE KEPT IN OPERATION, CONTRACTOR SHALL BE RESPONSIBLE FOR MANUAL OPERATION OF IRRIGATION SYSTEM OR HAND WATERING AS NEEDED TO MAINTAIN ALL EXISTING PLANTING IN NORMAL CONDITION.
- SEE IRRIGATION PLAN FOR DISPOSAL OF EXISTING IRRIGATION HEADS AND VALVE BOXES, ETC. TO BE REMOVED. PROTECT IN PLACE ALL IRRIGATION SYSTEM COMPONENTS TO REMAIN, TYP.
- TREES TO BE REMOVED SHALL BE TAGGED BY CONTRACTOR PRIOR TO DEMOLITION FOR REVIEW & APPROVAL BY PROJECT MANAGER. CONTRACTOR SHALL REMOVE TREES AFTER REVIEW AND APPROVAL BY THE PROJECT MANAGER. TREE REMOVAL, IF PERFORMED, SHALL INCLUDE THE ROOTBALLS AND/OR ROOT SYSTEMS.
- ALL EXISTING TREES TO REMAIN SHALL BE PROTECTED IN PLACE PER TREE PROTECTION REQUIREMENTS ON SHEET L017. PROVIDE TREE PROTECTION FENCING PER DETAILS AS SHOWN ON PLANS. TREE PROTECTION FENCING SHALL BE INSTALLED AND APPROVED BY PROJECT MANAGER PRIOR TO DEMOLITION WORK.
- EXISTING TURF AND SHRUBS DESIGNATED TO REMAIN SHALL BE PROTECTED IN PLACE. REPAIR ANY DAMAGE OR REPLACE AS REQUIRED PER LANDSCAPE SPECIFICATIONS.
- PRIOR TO START OF CONSTRUCTION, THE CONTRACTOR SHALL COORDINATE WITH PROJECT MANAGER TO LOCATE AND DELINEATE THE CONSTRUCTION STAGING AREA. AFTER COMPLETION OF WORK, THE STAGING AREA SHALL BE RESTORED, BY THE CONTRACTOR, TO ITS ORIGINAL CONDITION AT CONTRACTOR'S EXPENSE. SEE GENERAL CONDITIONS.
- VOIDS RESULTING FROM DEMOLITION SHALL BE BACKFILLED WITH COMPACTED FILL.

DEMOLITION LEGEND:

	EXISTING CONCRETE TO REMAIN. PROTECT IN PLACE.		LIMIT OF WORK/CONSTRUCTION FENCING WHERE REQUIRED (OFFSET FOR CLARITY).
	REMOVE EXISTING CONCRETE AND DISPOSE OFF-SITE. BASE MAY BE RE-USED ON SITE WITH APPROVAL OF GEOTECHNICAL ENGINEER.		EX. CHAINLINK FENCING TO REMAIN. PROTECT IN PLACE.
	CLEAR AND GRUB ALL SURFACE VEGETATION, WEEDS, DEBRIS, ETC.		EX. 3FT. HIGH CHAINLINK FENCE TO BE REMOVED AND DISPOSED OFF-SITE.
	LANDSCAPE AREA TO REMAIN. PROTECT IN PLACE.		EX. 6FT. HIGH CHAINLINK FENCE TO BE REMOVED AND DISPOSED OFF-SITE.
	REMOVE EXISTING DECOMPOSED GRANITE PATHWAY. REMOVE EXISTING HEADER.		EX. CONCRETE HEADER/MOW-STRIP TO BE REMOVED AND DISPOSED OFF-SITE.
	REMOVE EXISTING CMB MATERIAL AS REQUIRED. MATERIAL MAY BE REUSED FOR NEW CONSTRUCTION WITH APPROVAL OF BCA INSPECTOR AND/OR PROJECT MANAGER		EX. TREE TO BE REMOVED AND DISPOSED OFF-SITE. CONTRACTOR TO REMOVE ALL PARTS OF TREE, INCLUDING STUMP AND ROOTS.
	EX. DECOMPOSED GRANITE PAVING. SEE BID ALTERNATE NOTE		EXISTING TREE TO REMAIN. PROTECT IN PLACE.
	TREE PROTECTION ZONE FENCING. SEE L017 TREE PROTECTION NOTES AND DETAIL A13/L017		TREE PROTECTION ZONE. SEE TREE PROTECTION NOTES IN LANDSCAPE SPECIFICATIONS.
	EXISTING LIGHT POLE. PROTECT IN PLACE.		

KEYNOTES

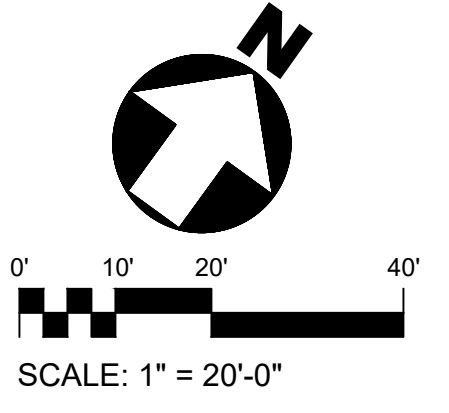
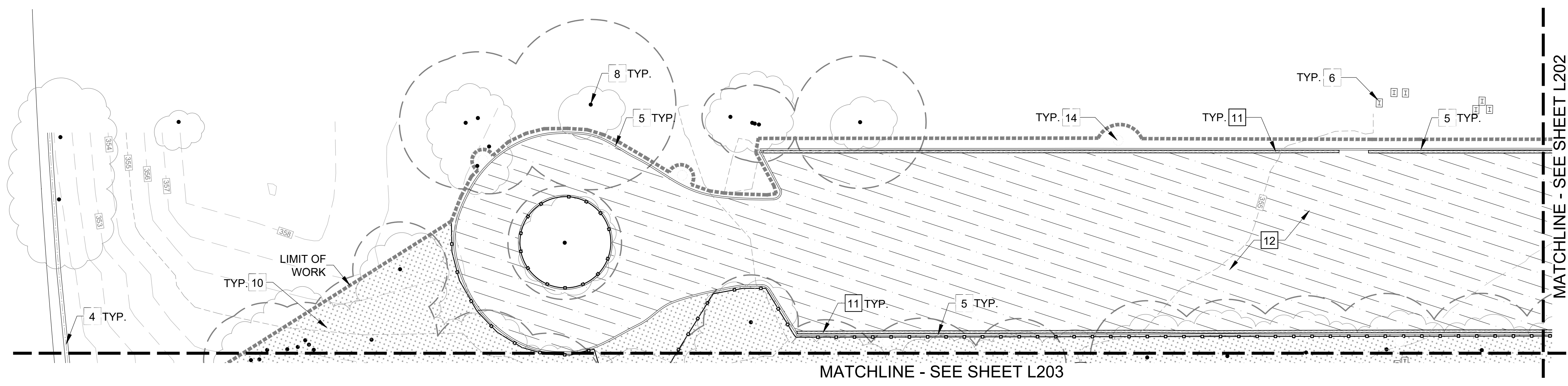
- CLEAR AND GRUB ALL SURFACE PLANTING, WEEDS, DEBRIS, ETC. IN THEIR ENTIRETY PER LANDSCAPE CONSTRUCTION NOTES
- CONCRETE PAVING
- CATCH BASIN. PROTECT IN PLACE
- 6" CHAIN LINK FENCE/GATE
- CONCRETE HEADER
- VALVE BOX. SEE IRRIGATION PLAN
- CONCRETE CURB
- TREE
- 3' CHAIN LINK FENCE/GATE
- NATURAL TURF/PLANTING/MULCH AREA
- WOOD UTILITY POLE WHEEL STOP
- CRUSHED MISCELLANEOUS BASE (CMB)
- AC PAVING
- LIGHT POLE WITH CONCRETE BASE. PROTECT IN PLACE - SEE ELECTRICAL PLANS, TYP.
- METAL STORAGE CONTAINER. RETURN TO RAP - COORDINATE THROUGH PROJECT MANAGER
- BENCH. RETURN TO RAP - COORDINATE THROUGH PROJECT MANAGER
- RESTROOM FACILITY. SEE SHEET A1/L205
- METAL W/ WOOD SEATS BLEACHER. RETURN TO RAP - COORDINATE THROUGH PROJECT MANAGER
- DECOMPOSED GRANITE PAVING
- MONITORING WELL
- SEWER CLEANOUT
- EXISTING 7-STATION BIKE RACK. REPAIR TO MATCH ORIGINAL FINISH.
- EXISTING BOULDER. REMOVE DURING DEMOLITION PHASE
- COORDINATE RELOCATION WITH LANDSCAPE ARCHITECT
- EXISTING ELECTRICAL PULL-BOX

KEYNOTES LEGEND

- # REMOVE AND PROPERLY DISPOSE OFF-SITE
- # EXISTING-PROTECT IN PLACE
- # REMOVE AND RECONSTRUCT

BID ALTERNATE LEGEND

- THE FOLLOWING ITEMS SHALL BE BID AS ADDITIVE ALTERNATES PER INSTRUCTIONS TO BIDDERS - SEE PLANS AND NOTES FOR DETAILED DESCRIPTION OF THE WORK TO BE INCLUDED IN EACH BID.
- 1 REMOVE EXISTING DECOMPOSED GRANITE PAVING; REMOVE 2" OF MATERIAL FROM SURFACE, AND INSTALL NEW 'ORGANIC LOCK' DECOMPOSED GRANITE MATERIAL TO CORRECT FINISH GRADE AND PROFILE PER DETAIL E9/L405. EXISTING CONCRETE EDGING SHALL BE PROTECTED IN PLACE.

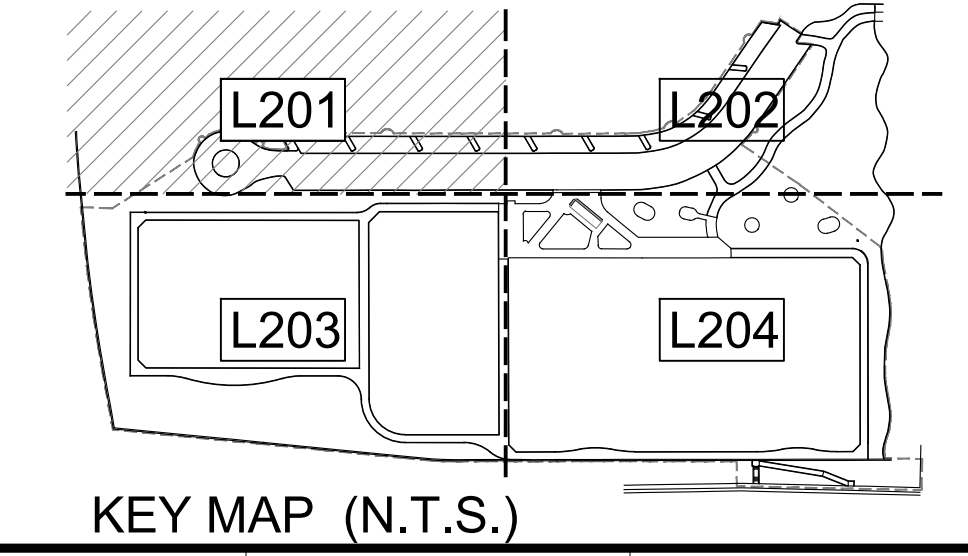


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ENGINEERING

CITY OF LOS ANGELES

Professional Engineer Seal for Richard W. Fisher, License No. 3768, State of California, expires 12/31/2024.

BUREAU OF ENGINEERING

CLIENT: DEPARTMENT OF RECREATION & PARKS
GENERAL MANAGER: [Name]
SHEET TITLE: DEMOLITION PLAN, SHEET 1 OF 4
PROJECT: RIO DE LOS ANGELES STATE PARK FIELDS MAINTENANCE IMPROVEMENTS PROJECT
ADDRESS: 1900 WEST SAN FERNANDO ROAD, LOS ANGELES, CA, 90039

DEPARTMENT OF PUBLIC WORKS

INDEX NO. **RP-300125**
CIP NO. **G1188**

DESIGN GROUP: [Name]
CITY ENGINEER: [Name]
DATE: [Date]

ENGINEER: TED ALLEN, P.E.
ARCHITECT: RICHARD W. FISHER, LANDSCAPE ARCHITECT
DESIGNED BY: RICHARD W. FISHER, LANDSCAPE ARCHITECT
DRAWN BY: ERNESTO GONZALEZ, LANDSCAPE ARCH. ASSOCIATE II
CHECKED BY: RICHARD W. FISHER, LANDSCAPE ARCHITECT
APPROVED BY: [Name]

WORK ORDER NO. **E1908951**
FILE NO. **999**
DRAWING NO. **L201**
SHEET **30** OF 100 SHEETS

DEMOLITION NOTES:

- CONTRACTOR SHALL MEET WITH PROJECT MANAGER TO REVIEW & VERIFY EXISTING ELEMENTS TO BE DEMOLISHED/PROTECTED PRIOR TO COMMENCEMENT OF WORK.
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- EX. DECOMPOSED GRANITE PAVING. SEE BID ALTERNATE NOTE
- LIMIT OF WORK/CONSTRUCTION FENCING WHERE REQUIRED (OFFSET FOR CLARITY).
- EX. CHAINLINK FENCING TO REMAIN. PROTECT IN PLACE.
- EX. 3FT. HIGH CHAINLINK FENCE TO BE REMOVED AND DISPOSED OFF-SITE.
- EX. 6FT. HIGH CHAINLINK FENCE TO BE REMOVED AND DISPOSED OFF-SITE.
- EX. CONCRETE HEADER/MOW-STRIP TO BE REMOVED AND DISPOSED OFF-SITE.
- EX TREE TO BE REMOVED AND DISPOSED OFF-SITE. CONTRACTOR TO REMOVE ALL PARTS OF TREE, INCLUDING STUMP AND ROOTS.
- EXISTING TREE TO REMAIN. PROTECT IN PLACE.
- TREE PROTECTION ZONE FENCING. SEE L017 TREE PROTECTION NOTES AND DETAIL A13/L017
- TREE PROTECTION ZONE. SEE TREE PROTECTION NOTES IN LANDSCAPE SPECIFICATIONS.
- EXISTING LIGHT POLE. PROTECT IN PLACE.

KEYNOTES

- CLEAR AND GRUB ALL SURFACE PLANTING, WEEDS, DEBRIS, ETC. IN THEIR ENTIRETY PER LANDSCAPE CONSTRUCTION NOTES
- CONCRETE PAVING
- CATCH BASIN. PROTECT IN PLACE
- 6" CHAIN LINK FENCE/GATE
- CONCRETE HEADER
- VALVE BOX. SEE IRRIGATION PLAN
- CONCRETE CURB
- TREE
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- BENCH. RETURN TO RAP - COORDINATE THROUGH PROJECT MANAGER
- RESTROOM FACILITY. SEE SHEET A1/L205
- METAL W/ WOOD SEATS BLEACHER. RETURN TO RAP - COORDINATE THROUGH PROJECT MANAGER
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- MONITORING WELL
- SEWER CLEANOUT
- EXISTING 7-STATION BIKE RACK. REPAIR TO MATCH ORIGINAL FINISH.
- EXISTING BOULDER. REMOVE DURING DEMOLITION PHASE
- COORDINATE RELOCATION WITH LANDSCAPE ARCHITECT
- EXISTING ELECTRICAL PULL-BOX

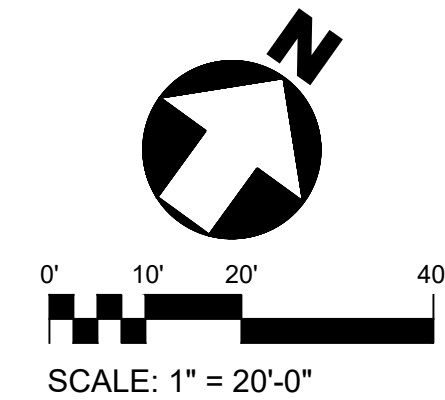
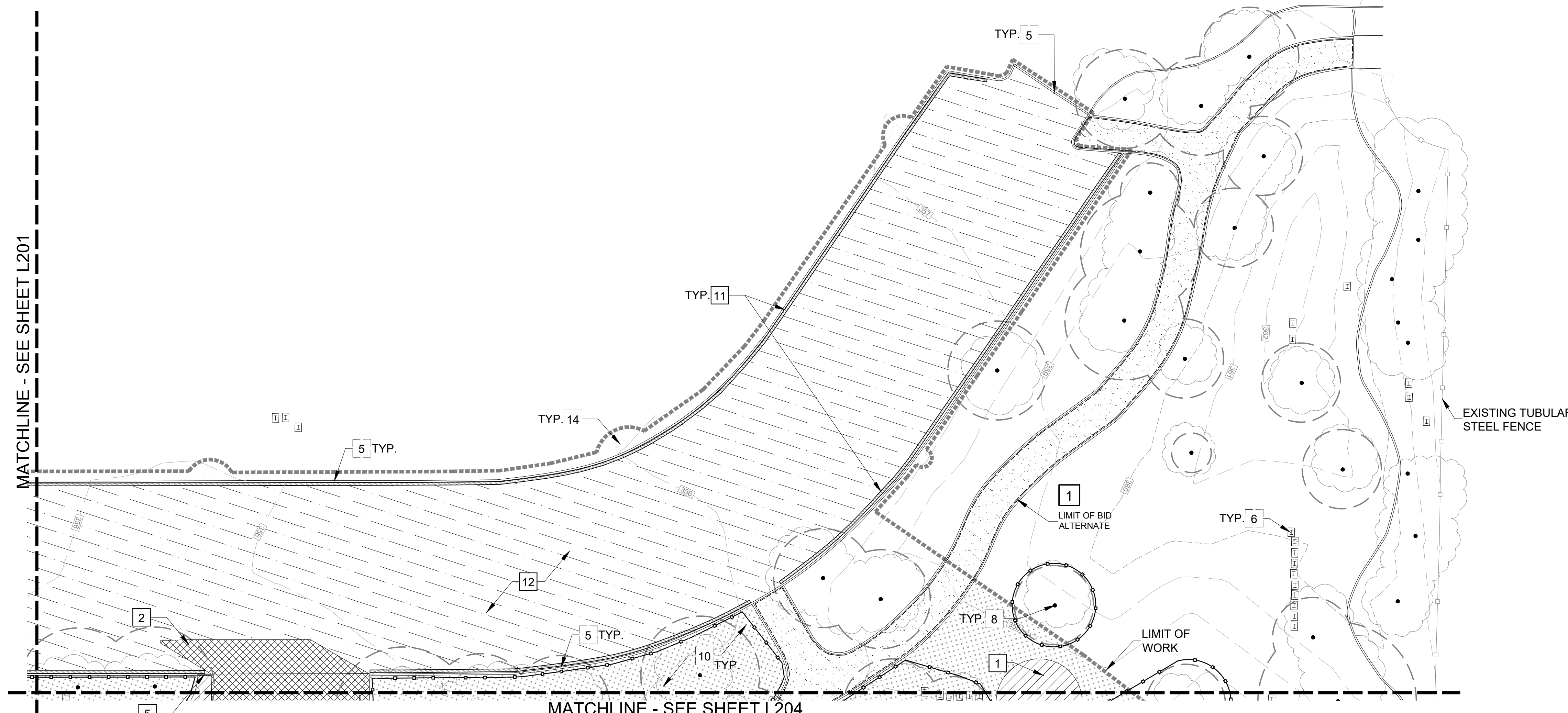
KEYNOTES LEGEND

- # REMOVE AND PROPERLY DISPOSE OFF-SITE
- # EXISTING-PROTECT IN PLACE
- # REMOVE AND RECONSTRUCT

BID ALTERNATE LEGEND

THE FOLLOWING ITEMS SHALL BE BID AS ADDITIVE ALTERNATES PER INSTRUCTIONS TO BIDDERS - SEE PLANS AND NOTES FOR DETAILED DESCRIPTION OF THE WORK TO BE INCLUDED IN EACH BID.

- 1 REMOVE EXISTING DECOMPOSED GRANITE PAVING: REMOVE 2" OF MATERIAL FROM SURFACE, AND INSTALL NEW 'ORGANIC LOCK' DECOMPOSED GRANITE MATERIAL TO CORRECT FINISH GRADE AND PROFILE PER DETAIL E9/L405. EXISTING CONCRETE EDGING SHALL BE PROTECTED IN PLACE.

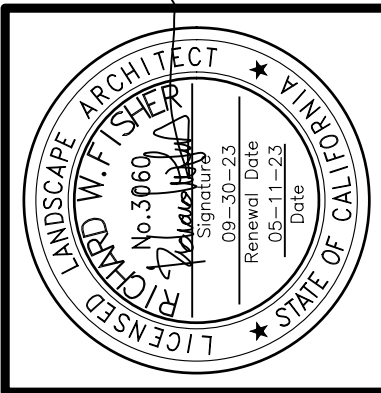
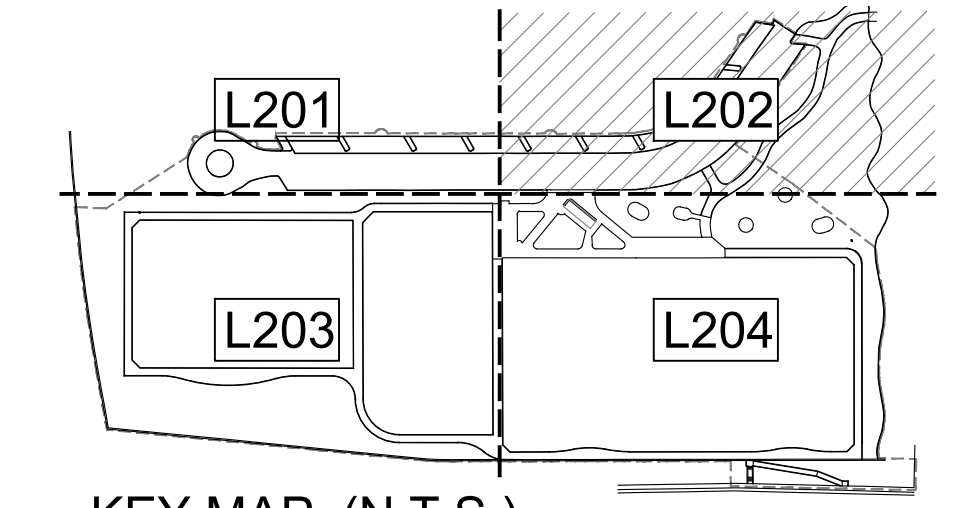


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BUREAU OF ENGINEERING

CLIENT: DEPARTMENT OF RECREATION & PARKS
GENERAL MANAGER: []
SHEET TITLE: DEMOLITION PLAN, SHEET 2 OF 4
PROJECT: RIO DE LOS ANGELES STATE PARK FIELDS MAINTENANCE IMPROVEMENTS PROJECT
ADDRESS: 1900 WEST SAN FERNANDO ROAD, LOS ANGELES, CA, 90039

DEPARTMENT OF PUBLIC WORKS

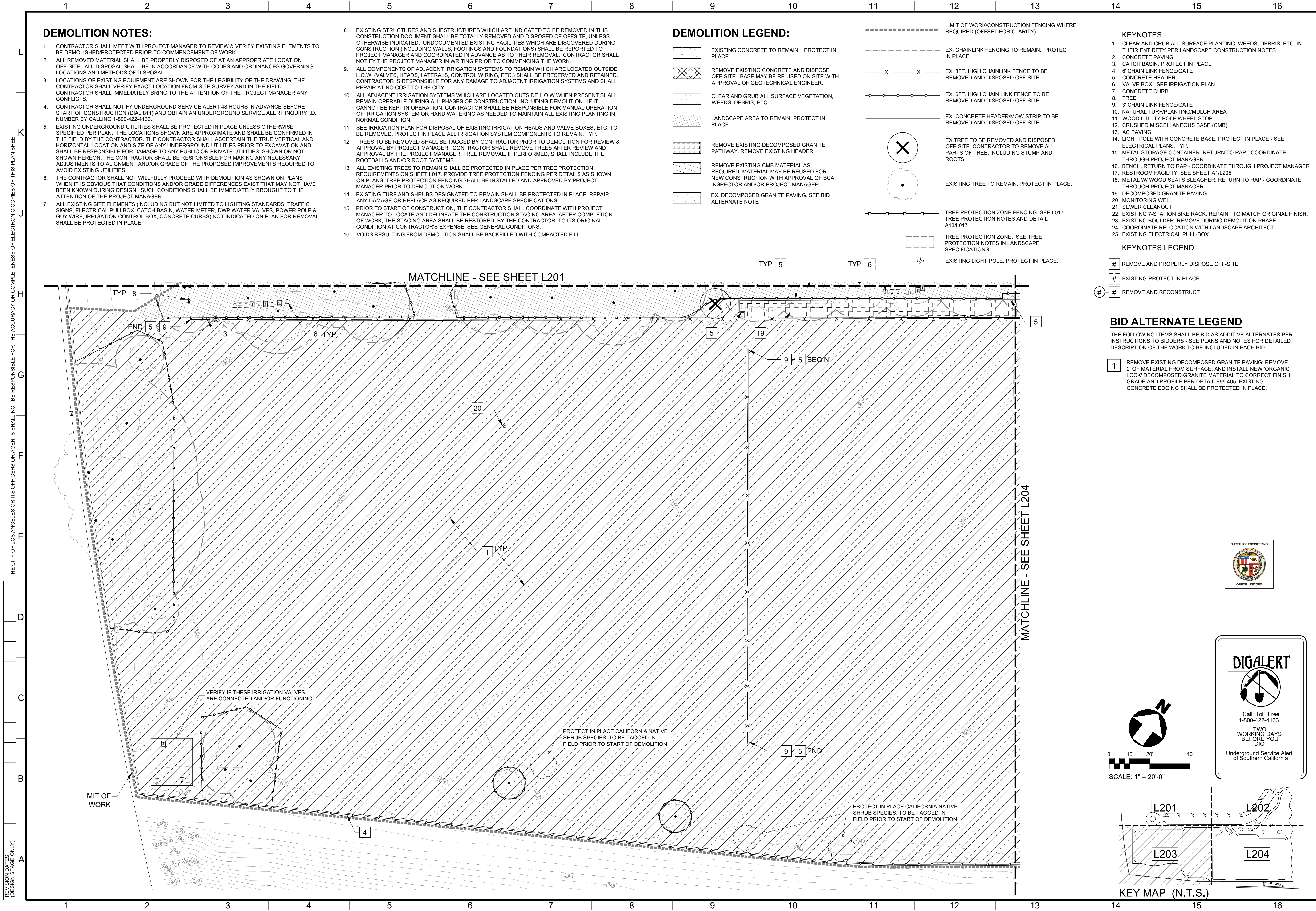
INDEX NO. **RP-300125**
CIP NO. **G1188**

TED ALLEN, P.E., CITY ENGINEER
DESIGN GROUP: []
DATE: []

ENGINEER: []
ARCHITECT: RICHARD W. FISHER, LANDSCAPE ARCHITECT I
DESIGNED BY: RICHARD W. FISHER, LANDSCAPE ARCHITECT I
DRAWN BY: ERNESTO GONZALEZ, LANDSCAPE ARCH. ASSOCIATE II | 7/13/2023
CHECKED BY: RICHARD W. FISHER, LANDSCAPE ARCHITECT I
APPROVED BY: []

WORK ORDER NO. **E1908951**
FILE NO. **999**
DRAWING NO. **L202**
SHEET **31** OF 100 SHEETS

REVISION DATES (DESIGN STAGE ONLY)



DEMOLITION NOTES:

- CONTRACTOR SHALL MEET WITH PROJECT MANAGER TO REVIEW & VERIFY EXISTING ELEMENTS TO BE DEMOLISHED/PROTECTED PRIOR TO COMMENCEMENT OF WORK.
- ALL REMOVED MATERIAL SHALL BE PROPERLY DISPOSED OF AT AN APPROPRIATE LOCATION OFF-SITE. ALL DISPOSAL SHALL BE IN ACCORDANCE WITH CODES AND ORDINANCES GOVERNING LOCATIONS AND METHODS OF DISPOSAL.
- LOCATIONS OF EXISTING EQUIPMENT ARE SHOWN FOR THE LEGIBILITY OF THE DRAWING. THE CONTRACTOR SHALL VERIFY EXACT LOCATION FROM SITE SURVEY AND IN THE FIELD. CONTRACTOR SHALL IMMEDIATELY BRING TO THE ATTENTION OF THE PROJECT MANAGER ANY CONFLICTS.
- CONTRACTOR SHALL NOTIFY UNDERGROUND SERVICE ALERT 48 HOURS IN ADVANCE BEFORE START OF CONSTRUCTION (DIAL 811) AND OBTAIN AN UNDERGROUND SERVICE ALERT INQUIRY I.D. NUMBER BY CALLING 1-800-422-4133.
- EXISTING UNDERGROUND UTILITIES SHALL BE PROTECTED IN PLACE UNLESS OTHERWISE SPECIFIED PER PLAN. THE LOCATIONS SHOWN ARE APPROXIMATE AND SHALL BE CONFIRMED IN THE FIELD BY THE CONTRACTOR. THE CONTRACTOR SHALL ASCERTAIN THE TRUE VERTICAL AND HORIZONTAL LOCATION AND SIZE OF ANY UNDERGROUND UTILITIES PRIOR TO EXCAVATION AND SHALL BE RESPONSIBLE FOR DAMAGE TO ANY PUBLIC OR PRIVATE UTILITIES, SHOWN OR NOT SHOWN HEREON. THE CONTRACTOR SHALL BE RESPONSIBLE FOR MAKING ANY NECESSARY ADJUSTMENTS TO ALIGNMENT AND/OR GRADE OF THE PROPOSED IMPROVEMENTS REQUIRED TO AVOID EXISTING UTILITIES.
- THE CONTRACTOR SHALL NOT FULLY PROCEED WITH DEMOLITION AS SHOWN ON PLANS WHEN IT IS OBVIOUS THAT CONDITIONS AND/OR GRADE DIFFERENCES EXIST THAT MAY NOT HAVE BEEN KNOWN DURING DESIGN. SUCH CONDITIONS SHALL BE IMMEDIATELY BROUGHT TO THE ATTENTION OF THE PROJECT MANAGER.
- ALL EXISTING SITE ELEMENTS (INCLUDING BUT NOT LIMITED TO LIGHTING STANDARDS, TRAFFIC SIGNS, ELECTRICAL PULLBOX, CATCH BASIN, WATER METER, DWP WATER VALVES, POWER POLE & GUY WIRE, IRRIGATION CONTROL BOX, CONCRETE CURBS) NOT INDICATED ON PLAN FOR REMOVAL SHALL BE PROTECTED IN PLACE.
- EXISTING STRUCTURES AND SUBSTRUCTURES WHICH ARE INDICATED TO BE REMOVED IN THIS CONSTRUCTION DOCUMENT SHALL BE TOTALLY REMOVED AND DISPOSED OF OFFSITE, UNLESS OTHERWISE INDICATED. UNDOCUMENTED EXISTING FACILITIES WHICH ARE DISCOVERED DURING CONSTRUCTION (INCLUDING WALLS, FOOTINGS AND FOUNDATIONS) SHALL BE REPORTED TO PROJECT MANAGER AND COORDINATED IN ADVANCE AS TO THEIR REMOVAL. CONTRACTOR SHALL NOTIFY THE PROJECT MANAGER IN WRITING PRIOR TO COMMENCING THE WORK.
- ALL COMPONENTS OF ADJACENT IRRIGATION SYSTEMS TO REMAIN WHICH ARE LOCATED OUTSIDE L.O.W. (VALVES, HEADS, LATERALS, CONTROL WIRING, ETC.) SHALL BE PRESERVED AND RETAINED. CONTRACTOR IS RESPONSIBLE FOR ANY DAMAGE TO ADJACENT IRRIGATION SYSTEMS AND SHALL REPAIR AT NO COST TO THE CITY.
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- SEE IRRIGATION PLAN FOR DISPOSAL OF EXISTING IRRIGATION HEADS AND VALVE BOXES, ETC. TO BE REMOVED. PROTECT IN PLACE ALL IRRIGATION SYSTEM COMPONENTS TO REMAIN, TYP.
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- ALL EXISTING TREES TO REMAIN SHALL BE PROTECTED IN PLACE PER TREE PROTECTION REQUIREMENTS ON SHEET L017. PROVIDE TREE PROTECTION FENCING PER DETAILS AS SHOWN ON PLANS. TREE PROTECTION FENCING SHALL BE INSTALLED AND APPROVED BY PROJECT MANAGER PRIOR TO DEMOLITION WORK.
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- VOIDS RESULTING FROM DEMOLITION SHALL BE BACKFILLED WITH COMPACTED FILL.

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- REMOVE EXISTING CONCRETE AND DISPOSE OFF-SITE. BASE MAY BE RE-USED ON SITE WITH APPROVAL OF GEOTECHNICAL ENGINEER.
- CLEAR AND GRUB ALL SURFACE VEGETATION, WEEDS, DEBRIS, ETC.
- LANDSCAPE AREA TO REMAIN. PROTECT IN PLACE.
- REMOVE EXISTING DECOMPOSED GRANITE PATHWAY. REMOVE EXISTING HEADER.
- REMOVE EXISTING CMB MATERIAL AS REQUIRED. MATERIAL MAY BE REUSED FOR NEW CONSTRUCTION WITH APPROVAL OF BCA INSPECTOR AND/OR PROJECT MANAGER
- EX. DECOMPOSED GRANITE PAVING. SEE BID ALTERNATE NOTE
- LIMIT OF WORK/CONSTRUCTION FENCING WHERE REQUIRED (OFFSET FOR CLARITY).
- EX. CHAINLINK FENCING TO REMAIN. PROTECT IN PLACE.
- EX. 3FT. HIGH CHAINLINK FENCE TO BE REMOVED AND DISPOSED OFF-SITE.
- EX. 6FT. HIGH CHAINLINK FENCE TO BE REMOVED AND DISPOSED OFF-SITE.
- EX. CONCRETE HEADER/MOW-STRIP TO BE REMOVED AND DISPOSED OFF-SITE.
- EX TREE TO BE REMOVED AND DISPOSED OFF-SITE. CONTRACTOR TO REMOVE ALL PARTS OF TREE, INCLUDING STUMP AND ROOTS.
- EXISTING TREE TO REMAIN. PROTECT IN PLACE.
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- TREE PROTECTION ZONE. SEE TREE PROTECTION NOTES IN LANDSCAPE SPECIFICATIONS.
- EXISTING LIGHT POLE. PROTECT IN PLACE.

KEYNOTES

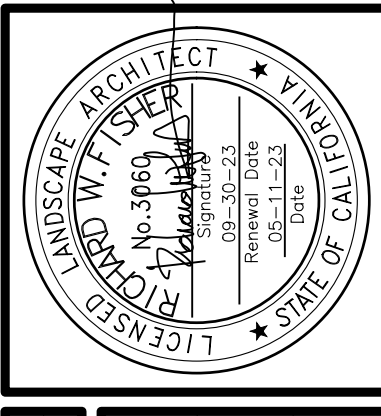
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- NATURAL TURF/PLANTING/MULCH AREA
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KEYNOTES LEGEND

- # REMOVE AND PROPERLY DISPOSE OFF-SITE
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- THE FOLLOWING ITEMS SHALL BE BID AS ADDITIVE ALTERNATES PER INSTRUCTIONS TO BIDDERS - SEE PLANS AND NOTES FOR DETAILED DESCRIPTION OF THE WORK TO BE INCLUDED IN EACH BID.
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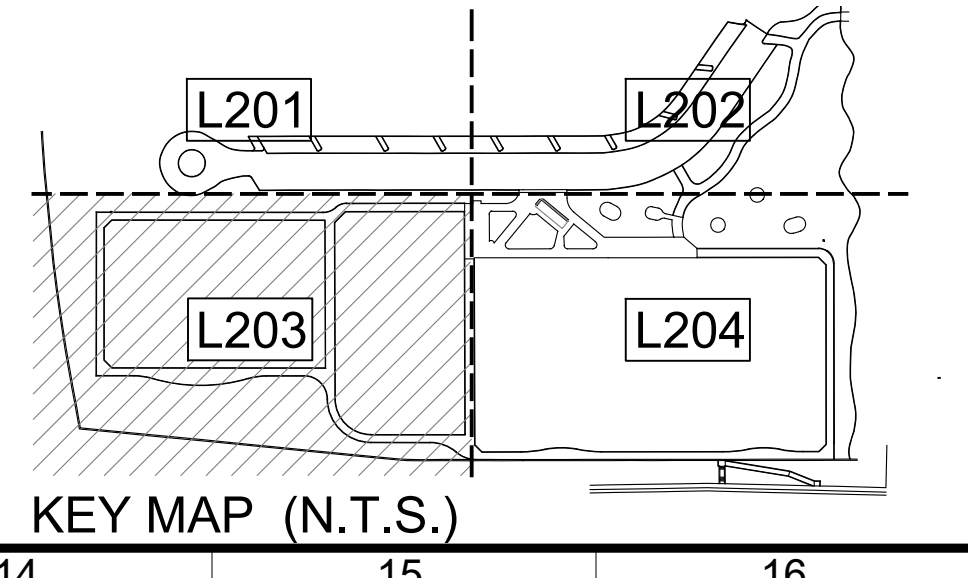
BUREAU OF ENGINEERING
 CLIENT: DEPARTMENT OF RECREATION & PARKS
 GENERAL MANAGER: []
 SHEET TITLE: DEMOLITION PLAN, SHEET 3 OF 4
 PROJECT: RIO DE LOS ANGELES STATE PARK FIELDS MAINTENANCE IMPROVEMENTS PROJECT
 ADDRESS: 1900 WEST SAN FERNANDO ROAD, LOS ANGELES, CA, 90039

INDEX NO. **RP-300125**
 CIP NO. **G1188**

CITY OF LOS ANGELES DEPARTMENT OF PUBLIC WORKS
 DESIGN GROUP: []
 CITY ENGINEER: []
 ARCHITECT: RICHARD W. FISHER, LANDSCAPE ARCHITECT I
 DESIGNED BY: ERNESTO GONZALEZ, LANDSCAPE ARCH. ASSOCIATE II | 7/13/2023
 DRAWN BY: RICHARD W. FISHER, LANDSCAPE ARCHITECT I
 CHECKED BY: []
 APPROVED BY: []

WORK ORDER NO. **E1908951**
 FILE NO. **999**
 DRAWING NO. **L203**
 SHEET **32** OF 100 SHEETS

DIGALERT
 Call Toll Free 1-800-422-4133
 TWO WORKING DAYS BEFORE YOU DIG
 Underground Service Alert of Southern California



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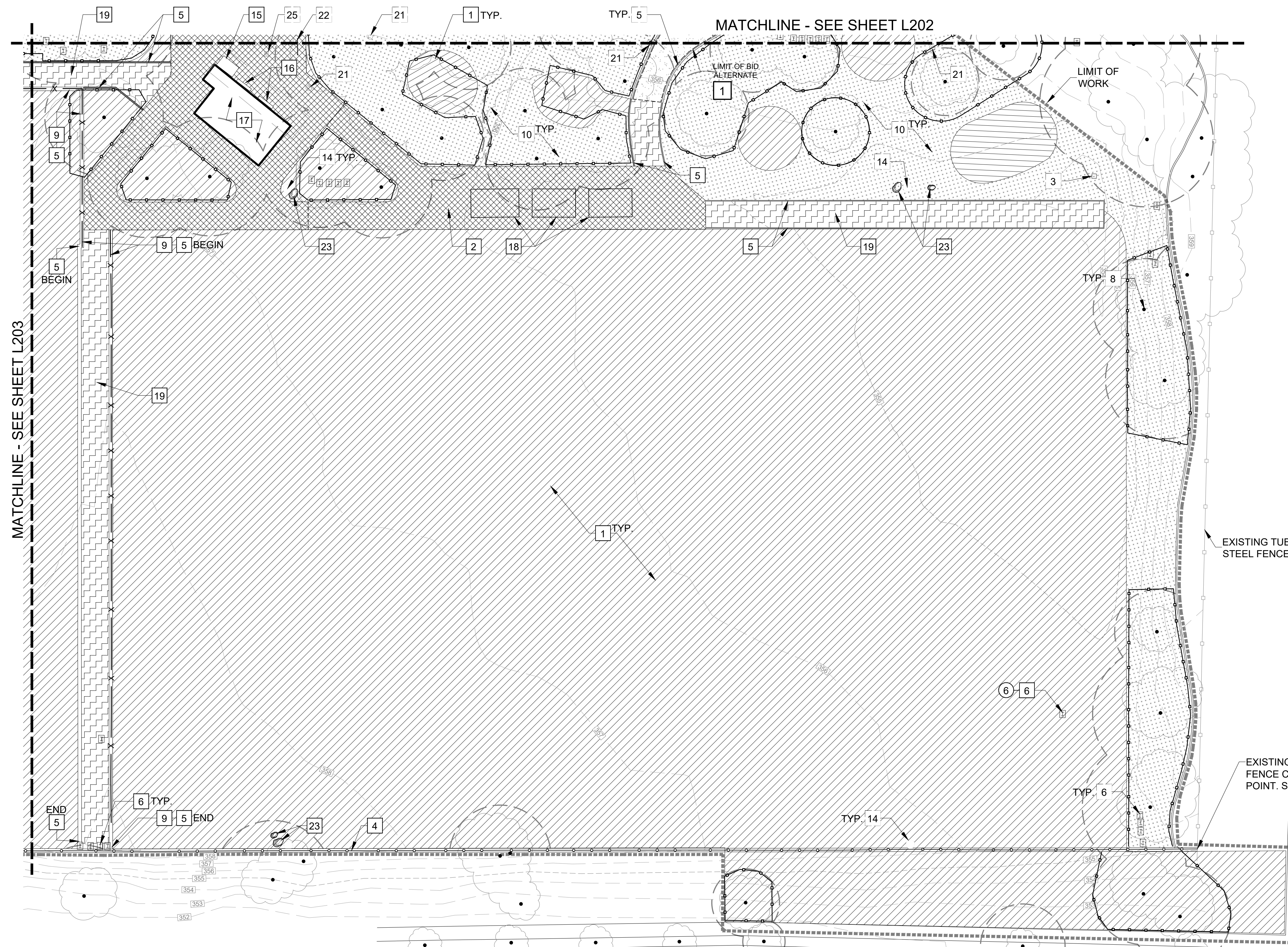
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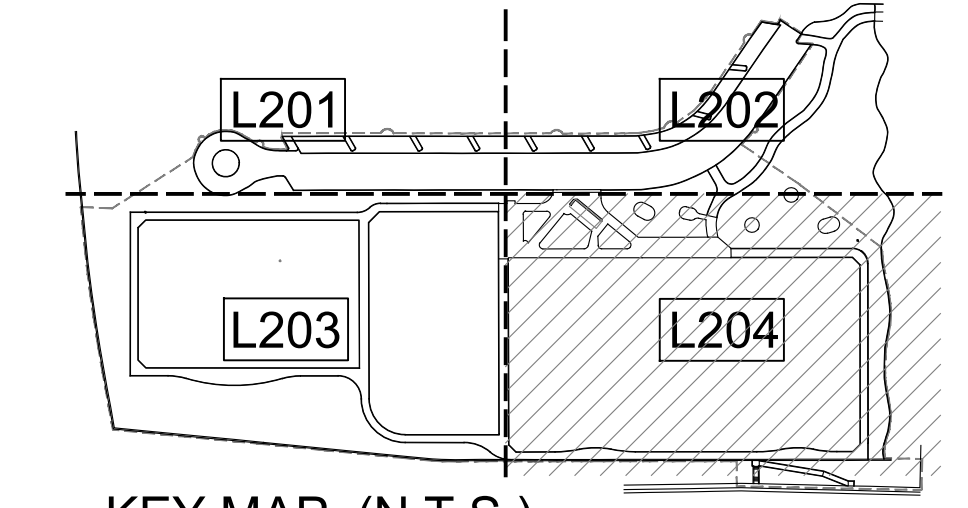
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SCALE: 1" = 20'-0"



ENGINEERING
CITY OF LOS ANGELES

BUREAU OF ENGINEERING

CLIENT: DEPARTMENT OF RECREATION & PARKS
GENERAL MANAGER: []
SHEET TITLE: DEMOLITION PLAN, SHEET 4 OF 4
PROJECT: RIO DE LOS ANGELES STATE PARK FIELDS MAINTENANCE IMPROVEMENTS PROJECT
ADDRESS: 1900 WEST SAN FERNANDO ROAD, LOS ANGELES, CA. 90039

INDEX NO. RP-300125
CIP NO. G1188

NO. [] DATE [] BY []
REVISION DESCRIPTION []

TED ALLEN, P.E., CITY ENGINEER
DESIGN GROUP []
ENGINEER []
ARCHITECT: RICHARD W. FISHER, LANDSCAPE ARCHITECT I
DRAWN BY: ERNESTO GONZALEZ, LANDSCAPE ARCH. ASSOCIATE II 7/13/2023
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WORK ORDER NO. E1908951
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DRAWING NO. L204
SHEET 33 OF 100 SHEETS

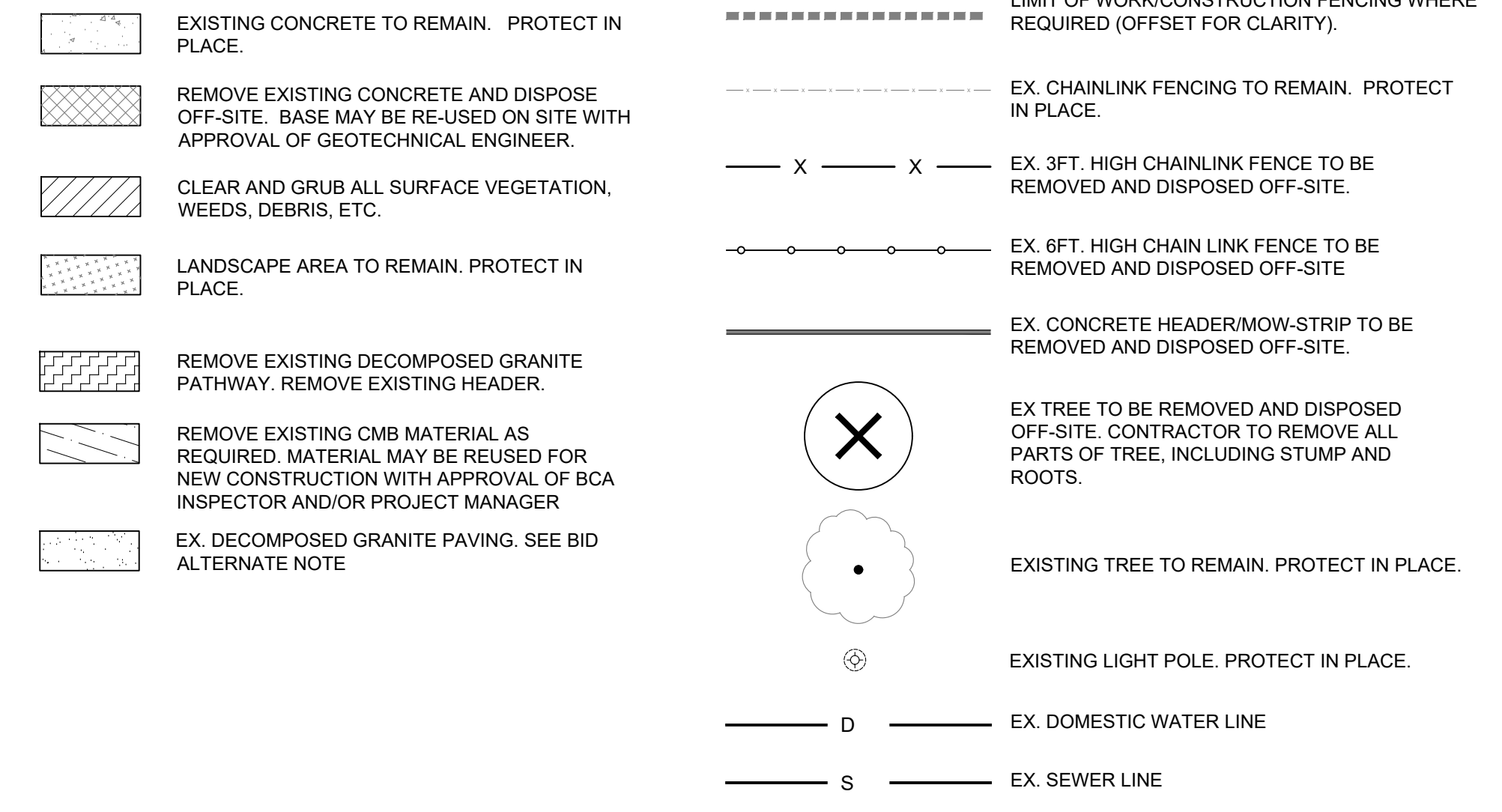
REVISION DATES (DESIGN STAGE ONLY) THE CITY OF LOS ANGELES OR ITS OFFICERS OR AGENTS SHALL NOT BE RESPONSIBLE FOR THE ACCURACY OR COMPLETENESS OF ELECTRONIC COPIES OF THIS PLAN SHEET.

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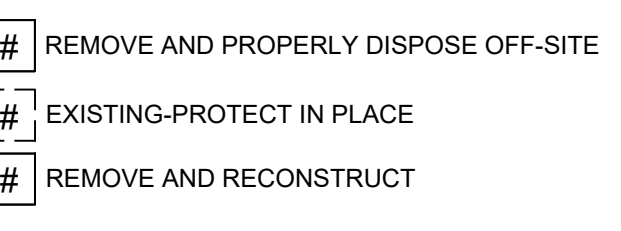
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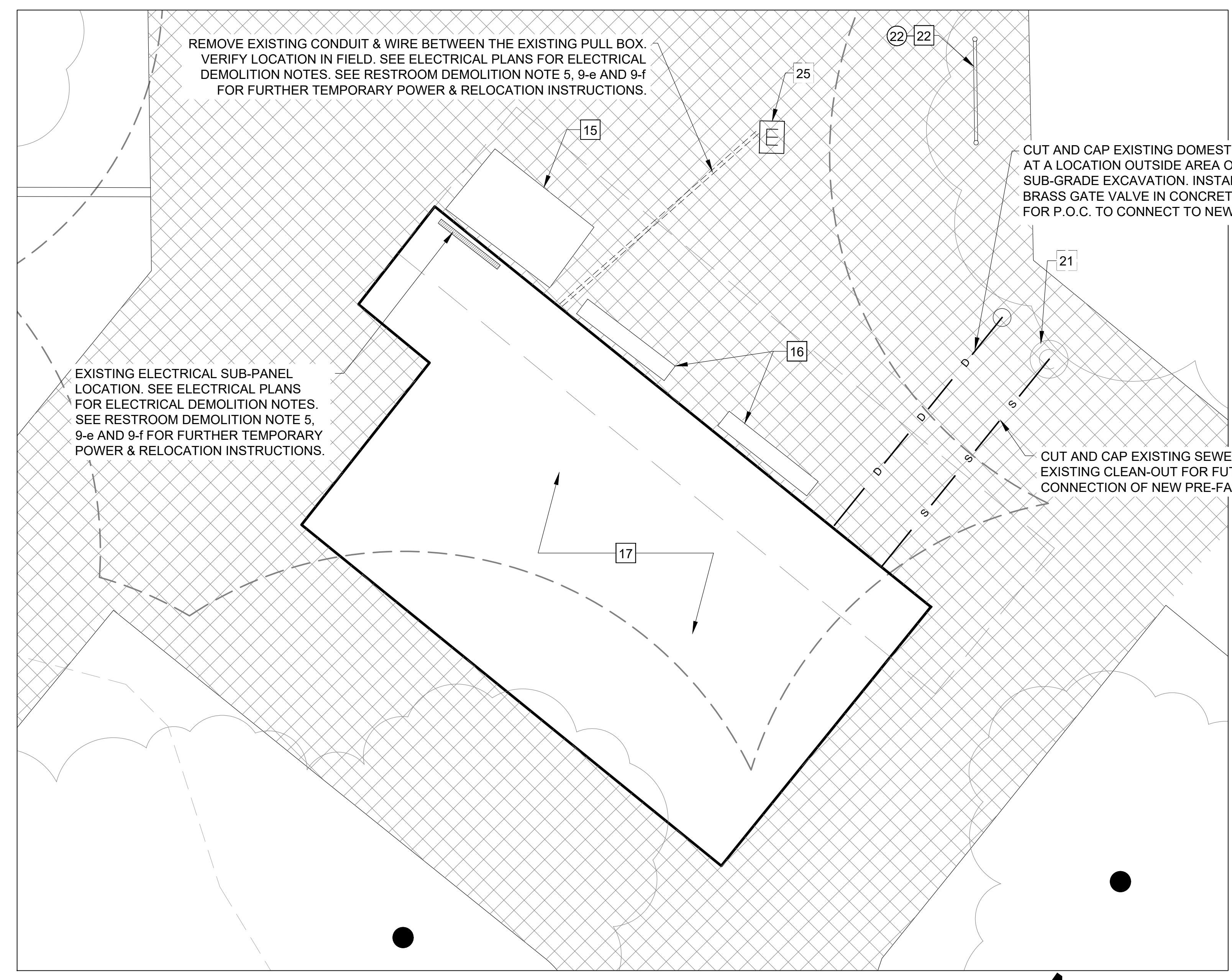
KEYNOTES

- 1. CLEAR AND GRUB ALL SURFACE PLANTING, WEEDS, DEBRIS, ETC. IN THEIR ENTIRETY PER LANDSCAPE CONSTRUCTION NOTES
2. CONCRETE PAVING
3. CATCH BASIN. PROTECT IN PLACE
4. 6" CHAIN LINK FENCE/GATE
5. CONCRETE HEADER
6. VALVE BOX. SEE IRRIGATION PLAN
7. CONCRETE CURB
8. TREE
9. 3' CHAIN LINK FENCE/GATE
10. NATURAL TURF/PLANTING/MULCH AREA
11. WOOD UTILITY POLE WHEEL STOP
12. CRUSHED MISCELLANEOUS BASE (CMB)
13. AC PAVING
14. LIGHT POLE WITH CONCRETE BASE. PROTECT IN PLACE - SEE ELECTRICAL PLANS, TYP
15. METAL STORAGE CONTAINER. RETURN TO RAP - COORDINATE THROUGH PROJECT MANAGER
16. BENCH
17. RESTROOM FACILITY. SEE SHEET A1/L205
18. METAL W/ WOOD SEATS BLEACHER
19. DECOMPOSED GRANITE PAVING
20. MONITORING WELL
21. SEWER CLEANOUT
22. EXISTING BIKE RACK. REPAIR TO MATCH ORIGINAL FINISH.
23. EXISTING BOULDER. REMOVE DURING DEMOLITION PHASE
24. COORDINATE RELOCATION WITH LANDSCAPE ARCHITECT.
25. EXISTING ELECTRICAL PULL-BOX

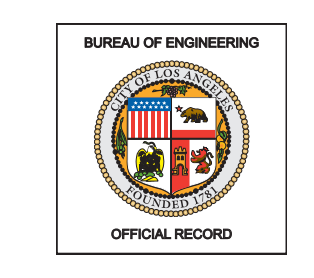
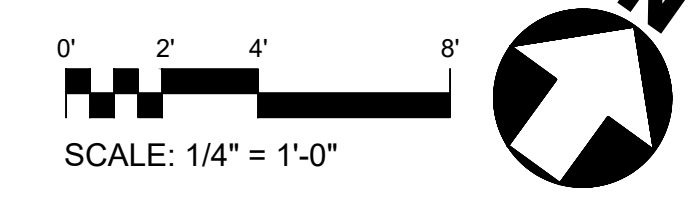


RESTROOM DEMOLITION NOTES

- 1. SEE GENERAL REQUIREMENTS AND SPECIFICATIONS FOR ADDITIONAL INFORMATION.
2. SCOPE OF WORK:
a. DEMOLITION AND REMOVAL OF EXISTING RESTROOM AND ADJACENT PAVING.
b. RELOCATION (TEMPORARY AND FINAL) OF ELECTRICAL SERVICE AND CAPPING OF EXISTING DOMESTIC WATER AND SEWER LINES FOR RE-CONNECTION TO THE NEW RESTROOM.
3. CONTRACTOR SHALL PERFORM ALL DEMOLITION WORK IN STRICT ACCORDANCE WITH ALL APPLICABLE FEDERAL, STATE AND CITY OF LOS ANGELES CODES AND REGULATIONS. CARE SHALL BE TAKEN TO MEET ALL SAFETY STANDARDS AND REQUIREMENTS. IF ADDITIONAL MEASURES ARE NEEDED, IN THE OPINION OF THE BCA INSPECTOR, CITY ENGINEER OR ANY OTHER AGENCY HAVING JURISDICTION, THE CONTRACTOR SHALL FURNISH SUCH MATERIALS AND DEVICES AS DIRECTED AND SHALL INSTALL THEM, AT NO EXTRA COST TO THE CITY.
4. ALL MATERIALS RESULTING FROM RESTROOM DEMOLITION OPERATIONS, INCLUDING WASTE MATERIALS, RUBBISH AND DEBRIS SHALL BE PROMPTLY REMOVED FROM THE JOB SITE AND DISPOSED OF PROPERLY - LARGE ACCUMULATION OF MATERIAL WILL NOT PERMITTED.
5. REPAIR OF DAMAGE: ANY DAMAGE TO EXISTING SITE IMPROVEMENTS DESIGNATED TO REMAIN, OR TO OTHER PARK PROPERTY AS CAUSED BY CONTRACTOR'S OPERATION OUTSIDE THE SCOPE OF REQUIRED SITE CLEARING AND/OR DEMOLITION SHALL BE REPAIRED AT THE CONTRACTOR'S EXPENSE. METHODS: CONTRACTOR SHALL REPAIR OR REPLACE EXISTING REMAINING WORK WITH NEW MATERIALS AS NECESSARY TO RESTORE DAMAGED AREAS OR SURFACES TO A CONDITION EQUAL TO AND MATCHING THAT EXISTING PRIOR TO START OF WORK OF THIS CONTRACT; TO THE FULL SATISFACTION AND APPROVAL OF THE CITY ENGINEER.
6. VERIFICATION OF CONDITIONS:
a. CONDITION OF PREMISES: CONTRACTOR ACCEPTS THE PREMISES AS FOUND AND SHALL VERIFY THE DEMOLITION WORK NOTED ON THE PLANS AND FAMILIARIZE HIMSELF WITH THE WORK REQUIRED BY OR INCIDENTAL TO COMPLETION OF THE SPECIFIED WORK PRIOR TO BIDDING PROJECT.
b. CONTRACTOR SHALL VERIFY EXISTING FINISH MATERIALS AND FAMILIARIZE HIMSELF WITH EXISTING JOB CONDITIONS AND NEW WORK PRIOR TO BIDDING PROJECT. ANY DAMAGE TO EXISTING FINISHES CAUSED BY CONTRACTOR'S OPERATION SHALL BE REPAIRED OR REPLACED AT CONTRACTOR'S EXPENSE. CONTRACTOR SHALL HAVE NO CLAIM FOR TIME EXTENSIONS OR MONETARY COMPENSATION DUE TO SUCH CONDITIONS.
c. CONTRACTOR SHALL VERIFY LOCATION AND CONDITION OF EXISTING UTILITY LINES AND CONDUIT PRIOR TO SUBMITTAL OF BID. ANY REMOVAL, REINSTALLATION, AND RELOCATION REQUIRED BY NEW WORK SHALL BE PART OF THIS CONTRACT. CONTRACTOR SHALL HAVE NO CLAIM FOR TIME EXTENSIONS OR MONETARY COMPENSATION DUE TO SUCH WORK.
7. PROTECTION:
a. CONTRACTOR SHALL ERECT AND MAINTAIN ALL REQUIRED SAFETY FENCING, BARRICADES, WARNING SIGNS, AND GUARDS AS NECESSARY FOR PROTECTION AND SAFETY DURING THE DEMOLITION AND REMOVAL WORK. CONTRACTOR SHALL REMOVE ALL PROTECTIONS WHEN THE WORK IS COMPLETE OR WHEN SO AUTHORIZED BY THE BCA INSPECTOR.
8. ENVIRONMENTAL REQUIREMENTS:
a. GROUND AND SURFACE WATER: AFTER THE EXISTING RESTROOM BUILDING OR STRUCTURES HAVE BEEN REMOVED, PROTECT THE RESULTING EXCAVATION OR OPEN AREA FROM SURFACE OR GROUND WATER. PROMPTLY REMOVE ANY WATER WHICH ACCUMULATES IN THE EXCAVATION OR OPENING. THE METHOD OF DEWATERING AND THE DISPOSAL OF THE WATER ARE SUBJECT TO REVIEW BY THE CITY.
b. DUST MITIGATION: CONTRACTOR SHALL WATER OR SPRINKLE THE WORK AREA DURING DEMOLITION OPERATIONS TO PREVENT DUST FROM RISING. SEE GENERAL REQUIREMENTS AND SPECIFICATIONS.
9. RESTROOM DEMOLITION:
a. CONTRACTOR SHALL PROVIDE COMPLETE DEMOLITION AND/OR REMOVAL OF ALL ITEMS INDICATED ON THE DRAWINGS AND AS SPECIFIED. WRECK, DEMOLISH, DISMANTLE AND COMPLETELY REMOVE RESTROOM BUILDING AND ADJACENT PAVING AS SHOWN ON THE DRAWINGS AND LEAVE THE SITE CLEAR OF SUCH MATERIALS. REMOVE ALL FOUNDATIONS, FOOTINGS AND CONCRETE BUILDING SLABS COMPLETELY.
b. CONTRACTOR SHALL REMOVE OF ALL DEBRIS AND RUBBISH RESULTING FROM RESTROOM DEMOLITION OPERATIONS AND DISPOSE OF PROPERLY. STORAGE OF DEMOLISHED MATERIALS IS NOT PERMITTED BEYOND BRIEF ACCUMULATION AWAITING PICK-UP BY REMOVAL TRUCKS; MATERIALS AND EQUIPMENT REMOVED FROM THE BUILDINGS SHALL NOT BE STORED AT THE SITE. ANY DELAY IN REMOVING MATERIALS AND EQUIPMENT FROM THE SITE SHALL BE SUBJECT TO APPROVAL OF THE CITY ENGINEER.
c. CONTRACTOR SHALL REMOVE ALL FIXTURES, EQUIPMENT, AND APPURTENANCES NOT DESIGNATED TO REMAIN OR BE SALVAGED.
d. CONTRACTOR SHALL REMOVE ALL UNDERGROUND PIPING OR CONDUIT AS WELL AS OTHER OBSTRUCTIONS INTERFERING WITH INSTALLATION OR SUBGRADE PREPARATION FOR THE NEW RESTROOM. DOMESTIC WATER OR SEWER PIPE OR ELECTRICAL CONDUIT SHALL BE REMOVED TO A POINT NOT LESS THAN 5 FEET BEYOND THE CONSTRUCTION LIMITS OF THE NEW RESTROOM AND SHALL BE CAPPED, UNLESS NOTED OTHERWISE. THE CONTRACTOR SHALL COORDINATE THE REMOVAL WORK WITH THE RELOCATION AND/OR NEW WORK BEING PERFORMED BY ALL CONTRACTORS. SEE ELECTRICAL PLANS FOR MORE INFORMATION.
e. CONTRACTOR SHALL REMOVE AND TEMPORARY RELOCATE FOR RE-USE ELECTRICAL AND COMMUNICATION PANELS. SEE ELECTRICAL PLANS FOR MORE INFORMATION.
f. ELECTRICAL SERVICE DISRUPTION: CONTRACTOR SHALL PROVIDE TEMPORARY RELOCATION OF DESIGNATED ELECTRICAL AND COMMUNICATION PANELS DURING CONSTRUCTION OF NEW RESTROOM FACILITY. SEE ELECTRICAL PLANS FOR MORE INFORMATION. ELECTRICAL SERVICE DISRUPTION SHALL NOT EXCEED (7) SEVEN DAYS.
10. METHODS:
a. SHALL BE AS DEvised BY THE CONTRACTOR FOR THE REQUIRED WORK, WITH SUITABLE EQUIPMENT, AND IN ACCORDANCE WITH LOS ANGELES CITY BUILDING CODE, AND ALL OTHER APPLICABLE LAWS AND ORDINANCES.
b. CONTRACTOR SHALL PROVIDE ANY BRACING AND SHORING AS NECESSARY TO AVOID ACCIDENTS OR COLLAPSE OF STRUCTURE.
c. WHERE CONCRETE WALKS, SLABS, OR SIDEWALKS ARE DESIGNATED TO BE REMOVED AND ADJOINING CONCRETE OR PAVING IS TO REMAIN, PROVIDE A STRAIGHT-LINE SAW-CUT AT THE EDGE OF DEMOLITION WORK TO A MINIMUM DEPTH OF ONE INCH TO ENSURE A CLEAN, STRAIGHT LINE REMOVAL.
11. MATERIALS SALVAGE:
a. ALL SALVAGEABLE MATERIALS INDICATED ON THE DRAWINGS OR AS REQUESTED BY RECREATION & PARKS STAFF SHALL BE CAREFULLY REMOVED, CLEANED AND PROTECTED FROM DAMAGE AND NEATLY STORED ON THE SITE FOR PICK-UP, OR AS DIRECTED BY THE CITY ENGINEER.
b. ALL MATERIALS NOT INDICATED TO REMAIN ON THE PREMISES OR BE REUSED IN THE PROJECT OR CLASSIFIED AS SALVAGEABLE MATERIALS SHALL BECOME THE PROPERTY OF THE CONTRACTOR AND SHALL BE PROMPTLY REMOVED FROM THE JOB SITE.



A1 EXISTING RESTROOM FACILITY SCALE: 1/4"=1'-0"



DIGALERT logo with text: Call Toll Free 1-800-422-4133 TWO WORKING DAYS BEFORE YOU DIG Underground Service Alert of Southern California

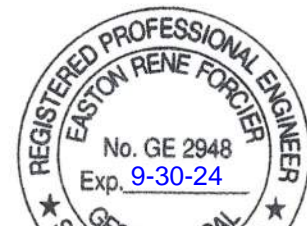
Engineering City of Los Angeles, Bureau of Engineering, Department of Public Works, Client: Department of Recreation & Parks, Sheet Title: Demolition Plan, Existing Restroom, Project: Rio de Los Angeles State Park Fields Maintenance Improvements Project, Address: 1900 West San Fernando Road, Los Angeles, CA, 90039, Index No. RP-300125, CIP No. G1188, City Engineer: Ted Allen, P.E., City Engineer, Design Group, Engineer: Richard W. Fisher, Landscape Architect, Designed by: Richard W. Fisher, Landscape Architect, Drawn by: Ernesto Gonzalez, Landscape Arch. Associate II, Checked by: Richard W. Fisher, Landscape Architect, Approved by: [Signature], Work Order No. E1908951, File No. 999, Drawing No. L205, Sheet 34 of 100 sheets.

LADBS GRADING NOTES:

- ALL GRADING SLOPES SHALL BE PLANTED AND SPRINKLERED.
- STANDARD 12 INCH HIGH BERM IS REQUIRED AT TOP OF ALL GRADED SLOPES.
- NO FILL TO BE PLACED UNTIL THE LADBS GRADING INSPECTOR AND THE GEOTECHNICAL ENGINEERING DIVISION HAS OBSERVED AND APPROVED THE EXCAVATION BOTTOM(S).
- FILL MATERIAL SHALL BE PLACED IN LOOSE LIFTS NOT EXCEEDING 8 INCHES IN THICKNESS, MOISTURE-CONDITIONED TO BETWEEN 0 AND 3 PERCENT ABOVE THE OPTIMUM MOISTURE CONTENT AND MECHANICALLY COMPACTED. IMPORT FILL BENEATH THE PROPOSED RESTROOMS AND BLEACHERS SHALL BE COMPACTED TO AT LEAST 96 PERCENT RELATIVE COMPACTION (RC), CRUSHED AGGREGATE BASE (CAB), CRUSHED MISCELLANEOUS BASE (CMB), AND THE UPPER 12 INCHES OF COMPACTED FILL BENEATH THE PAVEMENT SECTION SHALL ALSO BE COMPACTED TO AT LEAST 95 PERCENT RC. ALL REMAINING COMPACTED FILL, INCLUDING BOTH ONSITE AND IMPORT SOURCES, SHALL BE COMPACTED TO AT LEAST 90 PERCENT RC.
- IF REQUIRED, TEMPORARY EROSION CONTROL TO BE INSTALLED BETWEEN OCTOBER 1 AND APRIL 15. OBTAIN GRADING INSPECTOR'S AND DEPARTMENT OF PUBLIC WORKS APPROVAL OF PROPOSED PROCEDURES. (>200 CY).
- THE ESTIMATED EARTHWORK QUANTITIES PROVIDED HEREIN TO BE USED FOR JURISDICTIONAL PLAN CHECKING AND PERMITTING ONLY. THE CONTRACTOR SHALL CALCULATE THEIR OWN EARTHWORK QUANTITIES AS REQUIRED FOR BIDDING AND EXECUTION OF WORK. THE CITY IS NOT RESPONSIBLE FOR FOR THE CONTRACTOR'S EARTHWORKS CALCULATIONS
- THE ESTIMATED EARTHWORK DOES NOT CONSIDER THE REMOVAL OF ANY UNSUITABLE MATERIAL, AND THE REMOVAL OF EXISTING TOP SOIL OR VEGETATION. THE ESTIMATED EARTHWORK QUANTITIES DOES NOT INCLUDE SWELL/SHRINKAGE FACTORS. THE ESTIMATED EARTHWORK QUANTITIES ASSUME THAT ALL ON-SITE MATERIALS ARE SUITABLE FOR BACKFILLING. HOWEVER, ACTUAL ON-SITE MATERIALS AND IMPORTED (IF ANY) MATERIALS MUST BE APPROVED BY THE GEOTECHNICAL ENGINEER PRIOR TO INSTALLATION.

"THIS PLAN HAS BEEN REVIEWED BY THE BUREAU OF ENGINEERING, GEOTECHNICAL ENGINEERING DIVISION AND FOUND TO BE IN CONFORMANCE WITH OUR RECOMMENDATIONS IN THE REPORT DATED SEPTEMBER 20, 2022"

SIGNATURE & DATE: Easton Fo 7-12-23



Easton Fo

ADDRESSES/LEGAL DESCRIPTION

1900 W SAN FERNANDO ROAD, LOS ANGELES, CA 90039
 1545 N SAN FERNANDO ROAD, LOS ANGELES, CA 90039
 1555 N SAN FERNANDO ROAD, LOS ANGELES, CA 90039
 1559 N SAN FERNANDO ROAD, LOS ANGELES, CA 90039

PROPERTY BOUNDARY DESCRIPTION
 POR LOTS 2 AND 7 M B 147-22-26 AND POR J.D.HUNTER 2290.16 AC C.F.61

APNs: 5442002910, 5442002911
 PINs: 147A215-1, 147A215-1051, 147A217-363, 147A217-365

ZONING: [Q]CM-1-CDO-RIO, [Q]M2-1-CDO-RIO

OWNER

STATE OF CALIFORNIA - DEPARTMENT OF PARKS AND RECREATION
 1925 LAS VIRGENES RD
 CALABASAS, CA 91302

LESSEE CONTRACT: CITY OF LOS ANGELES DEPARTMENT OF RECREATION & PARKS
 1200 W. 7TH STREET, 4TH FLOOR, LOS ANGELES CA 90017

OWNER'S AGENT: CRAIG A. RAINES
 221 N. FIGUEROA, 4TH FLOOR STE. 400, LOS ANGELES CA 90012
 (213) 202-2652

CIVIL ENGINEER OF RECORD:

GRADING SUMMARY

ESTIMATED EARTHWORK*

ESTIMATED CUT: 3.451 CY

ESTIMATED FILL: 823 CY

OVER EX./RECOMPACTION = 6.513 CY

*REFER TO GRADING NOTES 6 & 7

ABBREVIATIONS

- (173.2) EXISTING GRADE
- BC BOTTOM OF CURB
- BW BOTTOM OF WALL
- EX EXISTING
- FFE FINISH FLOOR ELEVATION
- FG FINISH GRADE
- FL FLOW LINE
- FS FINISH SURFACE
- GB GRADE BREAK
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- TA TURF AREA
- TC TOP OF CURB/HEADER
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KEYNOTES

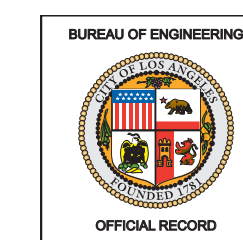
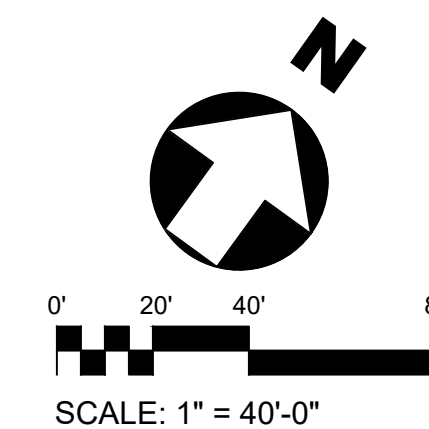
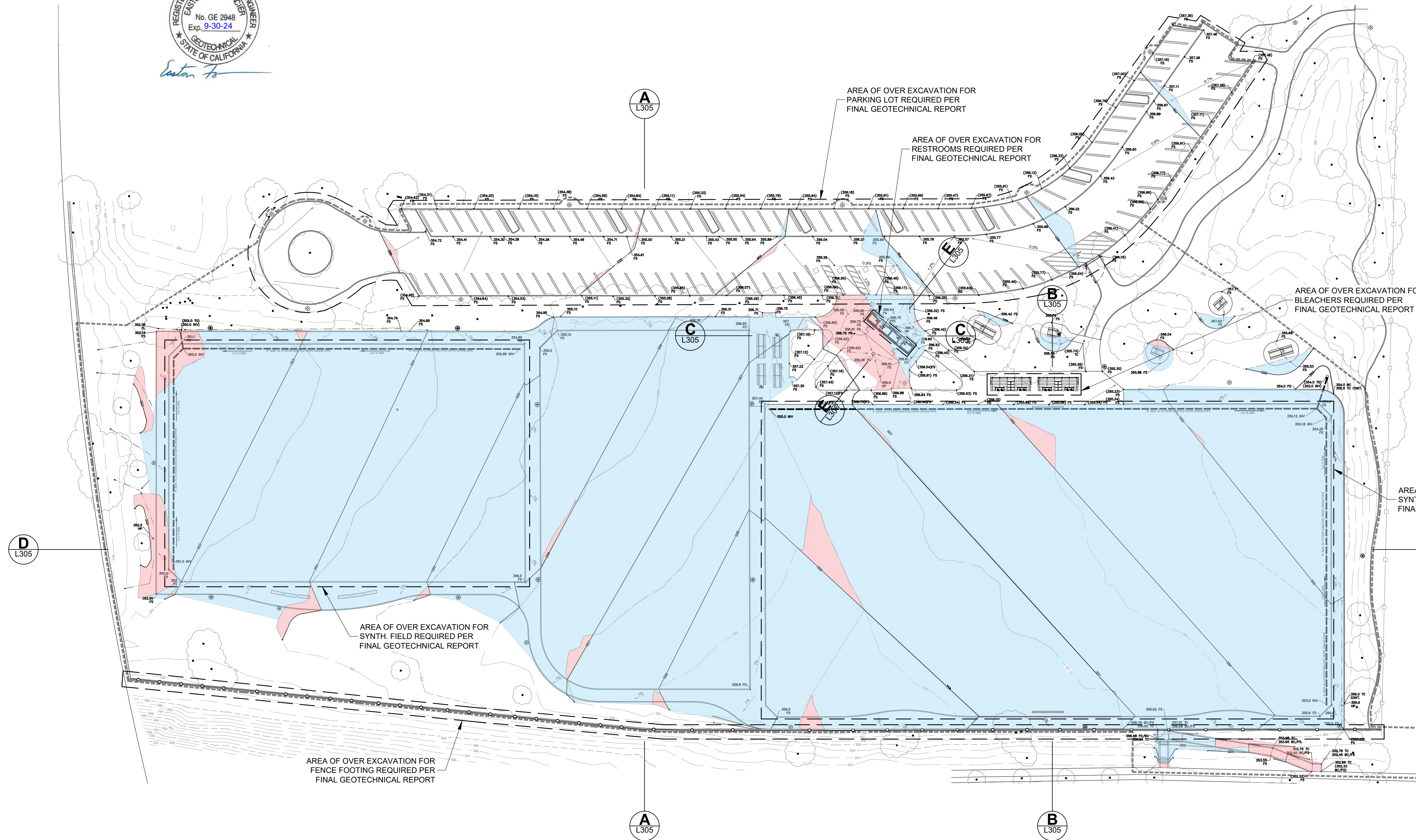
- EX. SEWER CLEANOUT. PROTECT IN PLACE. ADJUST TO FINISH GRADE WHERE NECESSARY.
- EX. CATCH BASIN. PROTECT IN PLACE.
- EX. MONITORING WELL. PROTECT IN PLACE.
- EX. IRRIGATION EQUIPMENT TO REMAIN. PROTECT IN PLACE. REFER TO IRRIGATION PLANS.
- NEW CONCRETE CURB WALL. SEE LANDSCAPE CONSTRUCTION PLAN, SHEET L404.
- NEW ACCESSIBLE INCLINED WALKWAY. SEE LANDSCAPE CONSTRUCTION PLAN, SHEET L404.
- NEW CONCRETE STAIRS WITH HANDRAIL. SEE LANDSCAPE CONSTRUCTION PLAN, SHEET L404.
- NEW 12"x12" CONCRETE CATCH BASIN WITH GRAVEL SUMP. INSTALL PER DETAIL F1/L401

KEYNOTES LEGEND

- # REMOVE AND PROPERLY DISPOSE OFF-SITE
- # EXISTING-PROTECT IN PLACE
- # REMOVE AND RECONSTRUCT

LEGEND

- LIMIT OF WORK (OFFSET FOR CLARITY)
- ~ ~ ~ ~ ~ PROPOSED CONTOUR
- ~ ~ ~ ~ ~ EXISTING CONTOUR
- DIRECTION OF SURFACE FLOW
- 8" ADS N-12 PERFORATED HDPE DRAIN PIPE
- GRADE BREAK
- FLOW LINE
- (354.90) TC/FS EXISTING SPOT ELEVATION
- 354.90 TC/FS PROPOSED SPOT ELEVATION
- APPROXIMATE FILL AREAS, TYP.
- APPROXIMATE CUT AREAS, TYP.



THIS PLAN WAS ELECTRONICALLY SIGNED AND STAMPED

BUREAU OF ENGINEERING

DEPARTMENT OF PUBLIC WORKS

CITY OF LOS ANGELES



CLIENT: DEPARTMENT OF RECREATION & PARKS
 GENERAL MANAGER:
 SHEET TITLE: OVERALL SITE GRADING PLAN
 PROJECT: RIO DE LOS ANGELES STATE PARK FIELDS MAINTENANCE IMPROVEMENTS PROJECT
 ADDRESS: 1900 WEST SAN FERNANDO ROAD, LOS ANGELES, CA, 90039

INDEX NO. **RP-300125**
 CIP NO. **G1188**

ENGINEER: TED ALLEN, P.E., CITY ENGINEER
 DESIGN GROUP:
 ARCHITECT: RICHARD W. FISHER, LANDSCAPE ARCHITECT I
 DESIGNED BY: RICHARD W. FISHER, LANDSCAPE ARCHITECT I
 DRAWN BY: ERNESTO GONZALEZ, LANDSCAPE ARCH. ASSOCIATE II | 7/11/2023
 CHECKED BY: RICHARD W. FISHER, LANDSCAPE ARCHITECT I
 APPROVED BY:

WORK ORDER NO. **E1908951**
 FILE NO. **999**
 DRAWING NO. **L300**
 SHEET **35** OF 100 SHEETS

REVISION DATES (DESIGN STAGE ONLY)

GRADING NOTES:

- ALL GRADING SHALL BE PERFORMED UNDER THE SUPERVISION OF THE CITY'S BUREAU OF CONTRACT ADMINISTRATION (BCA) INSPECTOR AND THE OBSERVATION OF THE BOE, GEOTECHNICAL ENGINEERING DIVISION (GED). THE CONTRACTOR SHALL NOTIFY THE BCA INSPECTOR AND THE GED AT LEAST THREE (3) WORKING DAYS PRIOR TO COMMENCEMENT OF ANY GRADING OPERATIONS.
- THE PROJECT GEOTECHNICAL REPORT SHALL BE MADE A PART OF THIS PLAN. THE CONTRACTOR SHALL FOLLOW THE RECOMMENDATIONS PROVIDED IN THE GEOTECHNICAL REPORT AND GRADING OPERATIONS SHALL BE PERFORMED UNDER THE SUPERVISION OF THE GEOTECHNICAL ENGINEER OF RECORD OR HIS DESIGNEE AS OUTLINED IN THE REPORT.
- SURVEYING REQUIRED FOR VERTICAL AND HORIZONTAL ALIGNMENT MUST BE PROVIDED BY THE CONTRACTOR AT HIS OWN EXPENSE AND PERFORMED PER THE GENERAL REQUIREMENTS. CONTRACTOR WILL BE PROVIDED WITH A DIGITAL SITE LAYOUT/GRADING PLAN IN AUTOCAD FORMAT. NO ADDITIONAL HORIZONTAL CONTROL PLAN WILL BE PROVIDED.
- CONTRACTOR SHALL REMOVE ALL DEBRIS FROM EXISTING CATCH BASINS WITHIN THE PROJECT LIMIT OF WORK AND MAINTAIN DRAINAGE OPERATION THROUGH THE PROJECT COMPLETION.
- A COPY OF THE MOST RECENT VERSION OF THE APPROVED GRADING PLANS MUST BE IN THE POSSESSION OF A RESPONSIBLE PERSON AND AVAILABLE AT THE JOB SITE AT ALL TIMES.
- WHEN REQUIRED BY CODE, SHORING FOR TRENCH EXCAVATIONS SHALL BE PROVIDED TO SATISFY STATE OF CALIFORNIA SAFETY REQUIREMENTS AT THE CONTRACTOR'S EXPENSE. CONTRACTOR SHALL BE RESPONSIBLE FOR SUBMITTING AND OBTAINING ALL REQUIRED SHORING PERMITS.
- THE CONTRACTOR SHALL NOT BEGIN ANY CONSTRUCTION OPERATION UNTIL THE SUBGRADE HAS BEEN APPROVED BY THE GRADING INSPECTOR AND GEOTECHNICAL ENGINEER WHERE REQUIRED.
- CONTRACTOR SHALL BE RESPONSIBLE FOR PROVIDING POSITIVE DRAINAGE ON SURFACE FLOW AREAS AT 1% (MIN.) ON HARDSCAPE AND 2% (MIN.) ON SOIL GRADE UNLESS OTHERWISE INDICATED.
- CONTRACTOR SHALL ASSUME STRAIGHT GRADE BETWEEN ELEVATION POINTS LISTED FOR FINISH GRADE OF NEW CONSTRUCTION UNLESS INSTRUCTED OTHERWISE.
- FINISH GRADE OF PLANTING AREAS SHALL BE WITHIN A TOLERANCE OF .04 FEET (1/2") OF GRADING PLAN AS SHOWN. FINISH GRADE IN MULCHED PLANTING AREAS SHALL BE 1" BELOW TOP OF ADJACENT PAVING. ALL SOIL SURFACES SHALL BE BROUGHT TO A CONSISTENT GRADE, HAVING NO IRREGULARITIES, DEPRESSIONS, OR RIDGES TO THE SATISFACTION OF THE CITY ENGINEER. FINE GRADE ALL AREAS TO PROVIDE POSITIVE DRAINAGE AND SMOOTH, CONSISTENT GRADE TRANSITIONS.
- VEGETATION AND ORGANIC MATTER SHOULD NOT BE INCORPORATED INTO THE COMPACTED FILL.
- CONTRACTOR SHALL REMOVE FROM THE SITE AND LEGALLY DISPOSE OF ALL DEBRIS AND EXCAVATED MATERIAL NOT REQUIRED FOR FILL. NO RUBBISH OR DEBRIS SHALL BE BURIED ON THE SITE.

"THIS PLAN HAS BEEN REVIEWED BY THE BUREAU OF ENGINEERING, GEOTECHNICAL ENGINEERING DIVISION AND FOUND TO BE IN CONFORMANCE WITH OUR RECOMMENDATIONS IN THE REPORT DATED SEPTEMBER 20, 2022"

SIGNATURE & DATE: *Easton Fo* 7-12-23



Easton Fo

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- EX EXISTING
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- TC TOP OF CURB/HEADER
- TV TOP OF VAULT
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LEGEND

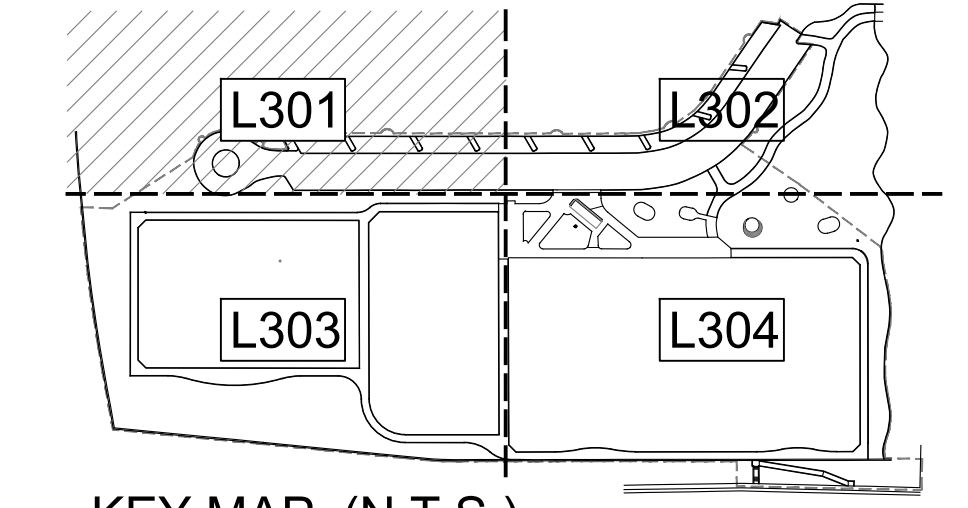
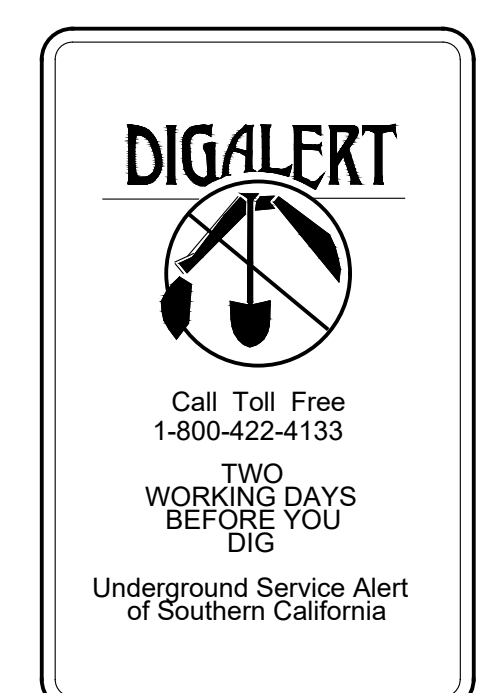
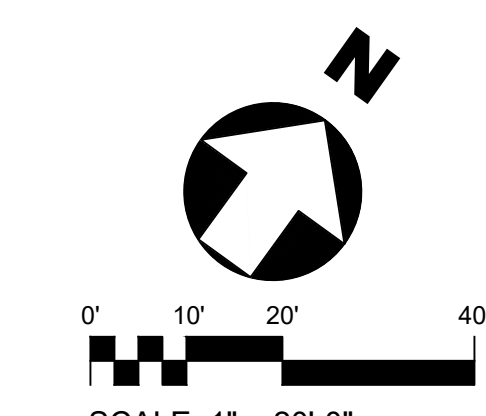
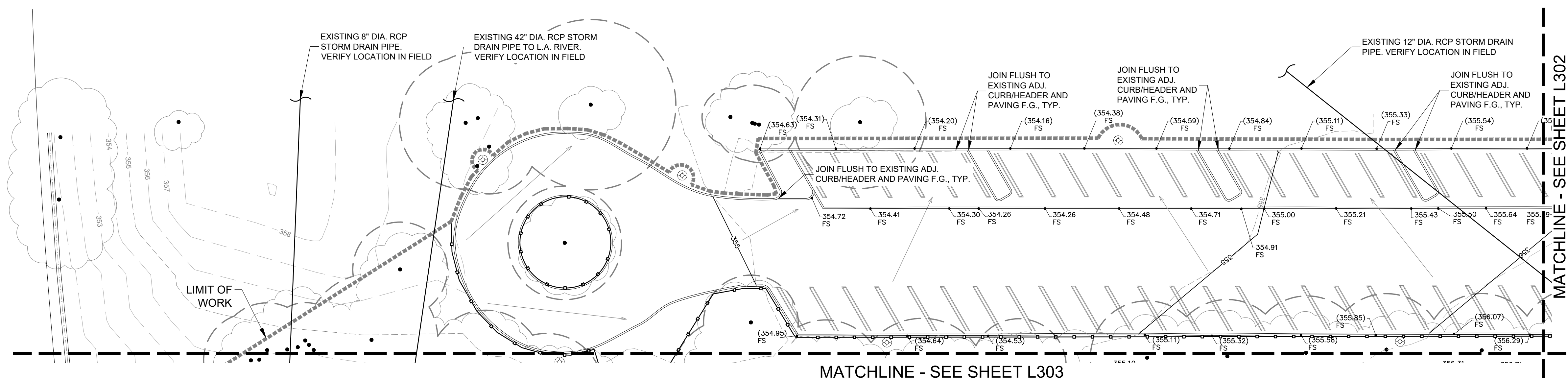
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- PROPOSED CONTOUR
- EXISTING CONTOUR
- DIRECTION OF SURFACE FLOW
- 8" ADS N-12 PERFORATED HDPE DRAIN PIPE
- GRADE BREAK
- FLOW LINE
- TREE PROTECTION ZONE FENCING. SEE L017
- TREE PROTECTION NOTES AND DETAIL A13/L017
- (354.90) TC/FS EXISTING SPOT ELEVATION
- 354.90 TC/FS PROPOSED SPOT ELEVATION
- TREE PROTECTION ZONE. SEE TREE PROTECTION NOTES IN LANDSCAPE SPECIFICATIONS.

KEYNOTES

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KEYNOTES LEGEND

- # REMOVE AND PROPERLY DISPOSE OFF-SITE
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REVISION DATES (DESIGN STAGE ONLY)

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

CITY OF LOS ANGELES DEPARTMENT OF PUBLIC WORKS BUREAU OF ENGINEERING

CLIENT: DEPARTMENT OF RECREATION & PARKS
GENERAL MANAGER: [Blank]
SHEET TITLE: GRADING PLAN, SHEET 1 OF 4
PROJECT: RIO DE LOS ANGELES STATE PARK FIELDS MAINTENANCE IMPROVEMENTS PROJECT
ADDRESS: 1900 WEST SAN FERNANDO ROAD, LOS ANGELES, CA, 90039

INDEX NO. RP-300125
CIP NO. G1188

ENGINEER	TED ALLEN, P.E., CITY ENGINEER	DATE:	
DESIGN GROUP			
ARCHITECT	RICHARD W. FISHER, LANDSCAPE ARCHITECT		
DRAWN BY	ERNESTO GONZALEZ, LANDSCAPE ARCH. ASSOCIATE II	7/11/2023	
CHECKED BY	RICHARD W. FISHER, LANDSCAPE ARCHITECT		
APPROVED BY:			

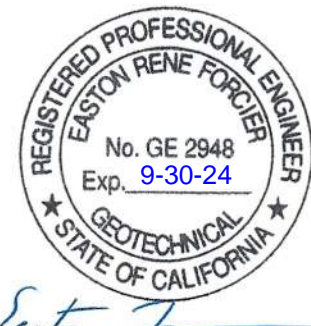
WORK ORDER NO. E1908951
FILE NO. 999
DRAWING NO. L301
SHEET 36 OF 100 SHEETS

GRADING NOTES:

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SIGNATURE & DATE: *Ernie Forster* 7-12-23



Ernie Forster

ABBREVIATIONS

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LEGEND

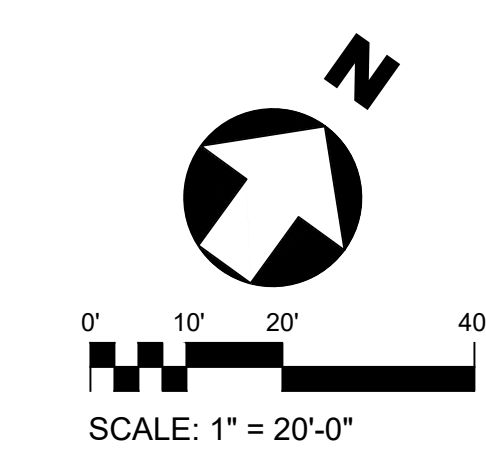
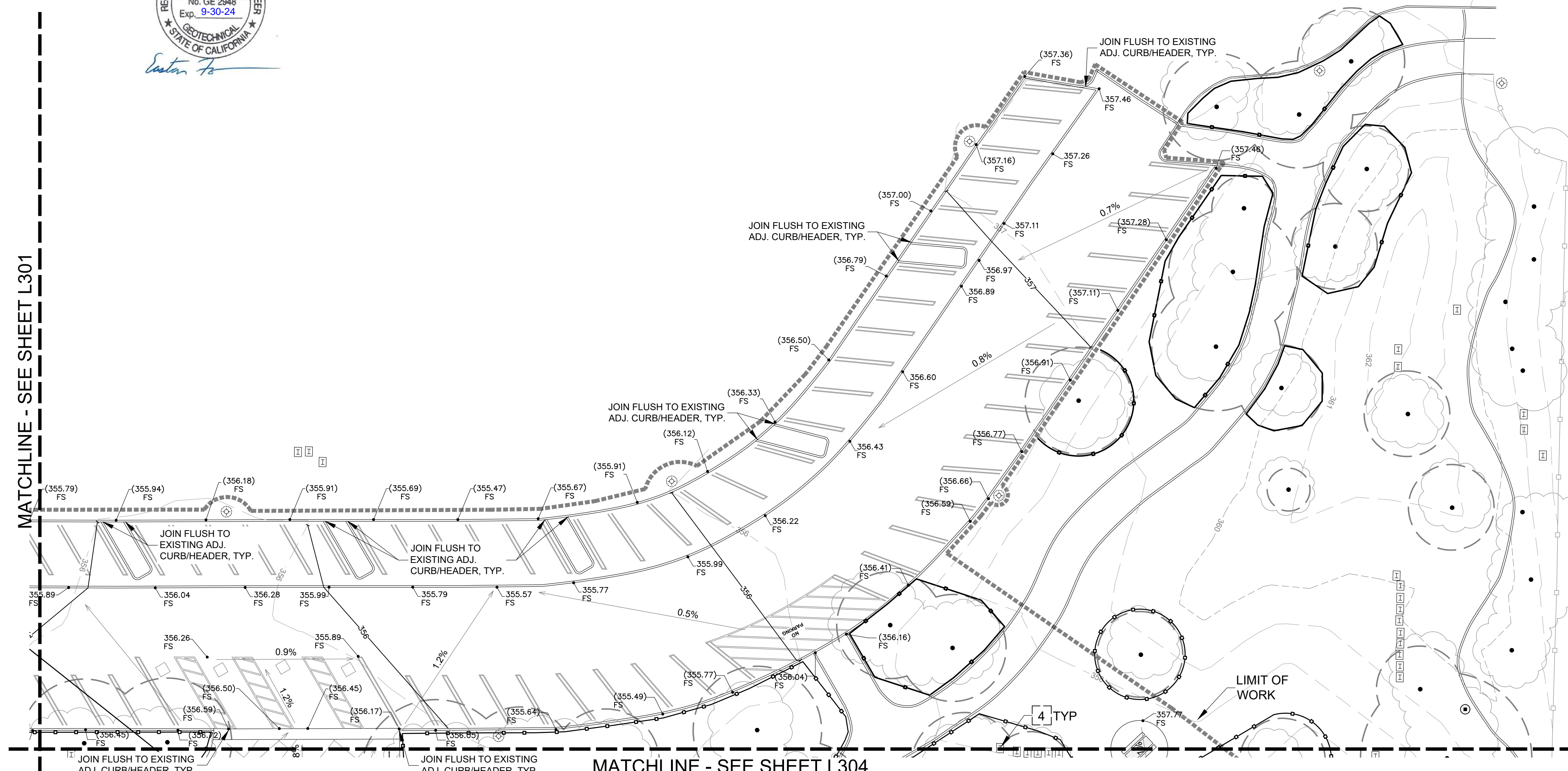
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KEYNOTES

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KEYNOTES LEGEND

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- # REMOVE AND RECONSTRUCT

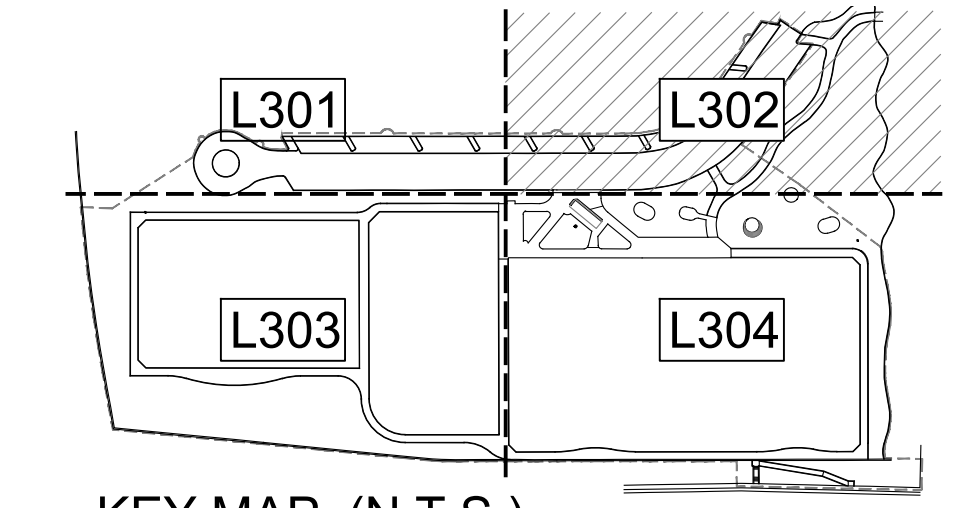


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REVISION DATES (DESIGN STAGE ONLY)

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ENGINEERING
CITY OF LOS ANGELES

BUREAU OF ENGINEERING

CLIENT: DEPARTMENT OF RECREATION & PARKS
GENERAL MANAGER: [Blank]
SHEET TITLE: GRADING PLAN, SHEET 2 OF 4
PROJECT: RIO DE LOS ANGELES STATE PARK FIELDS MAINTENANCE IMPROVEMENTS PROJECT
ADDRESS: 1900 WEST SAN FERNANDO ROAD, LOS ANGELES, CA, 90039

INDEX NO. **RP-300125** CIP NO. **G1188**

DESIGN GROUP: [Blank]
CITY ENGINEER: [Blank]
ENGINEER: TED ALLEN, P.E., CITY ENGINEER
ARCHITECT: RICHARD W. FISHER, LANDSCAPE ARCHITECT
DESIGNED BY: RICHARD W. FISHER, LANDSCAPE ARCHITECT
DRAWN BY: ERNESTO GONZALEZ, LANDSCAPE ARCH. ASSOCIATE II | 7/11/2023
CHECKED BY: RICHARD W. FISHER, LANDSCAPE ARCHITECT
APPROVED BY: [Blank]

WORK ORDER NO. **E1908951**
FILE NO. **999**
DRAWING NO. **L302**
SHEET **37** OF 100 SHEETS

GRADING NOTES:

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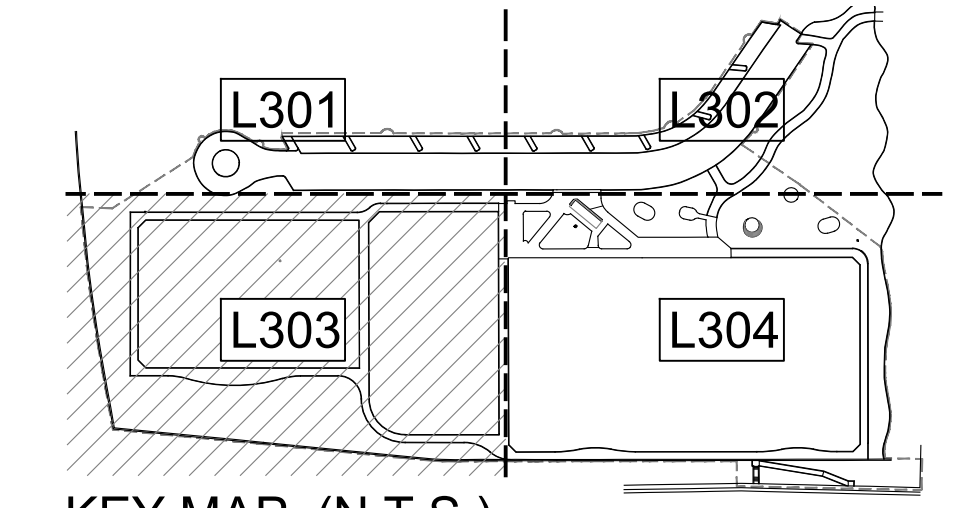
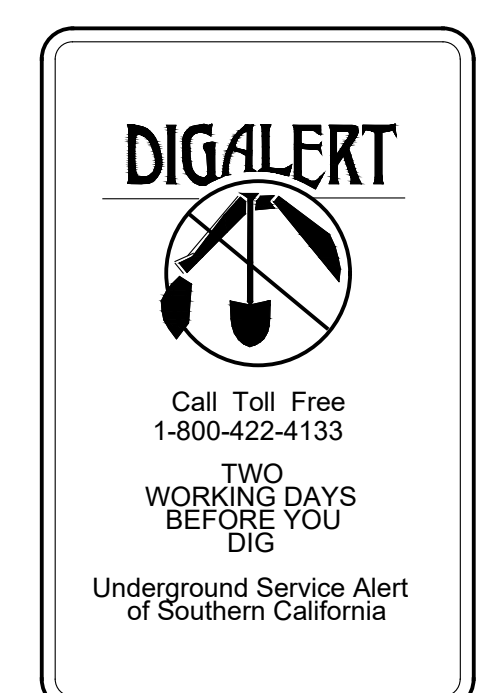
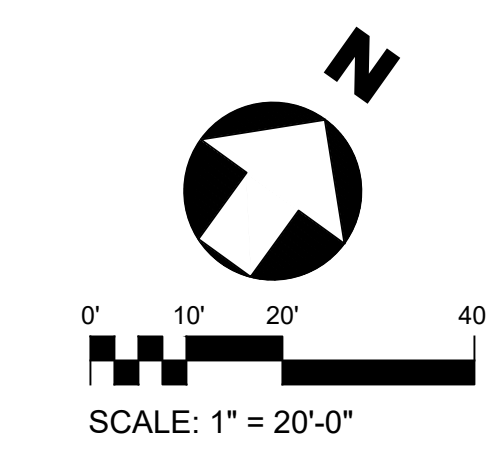
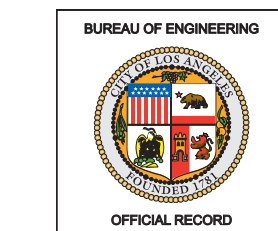
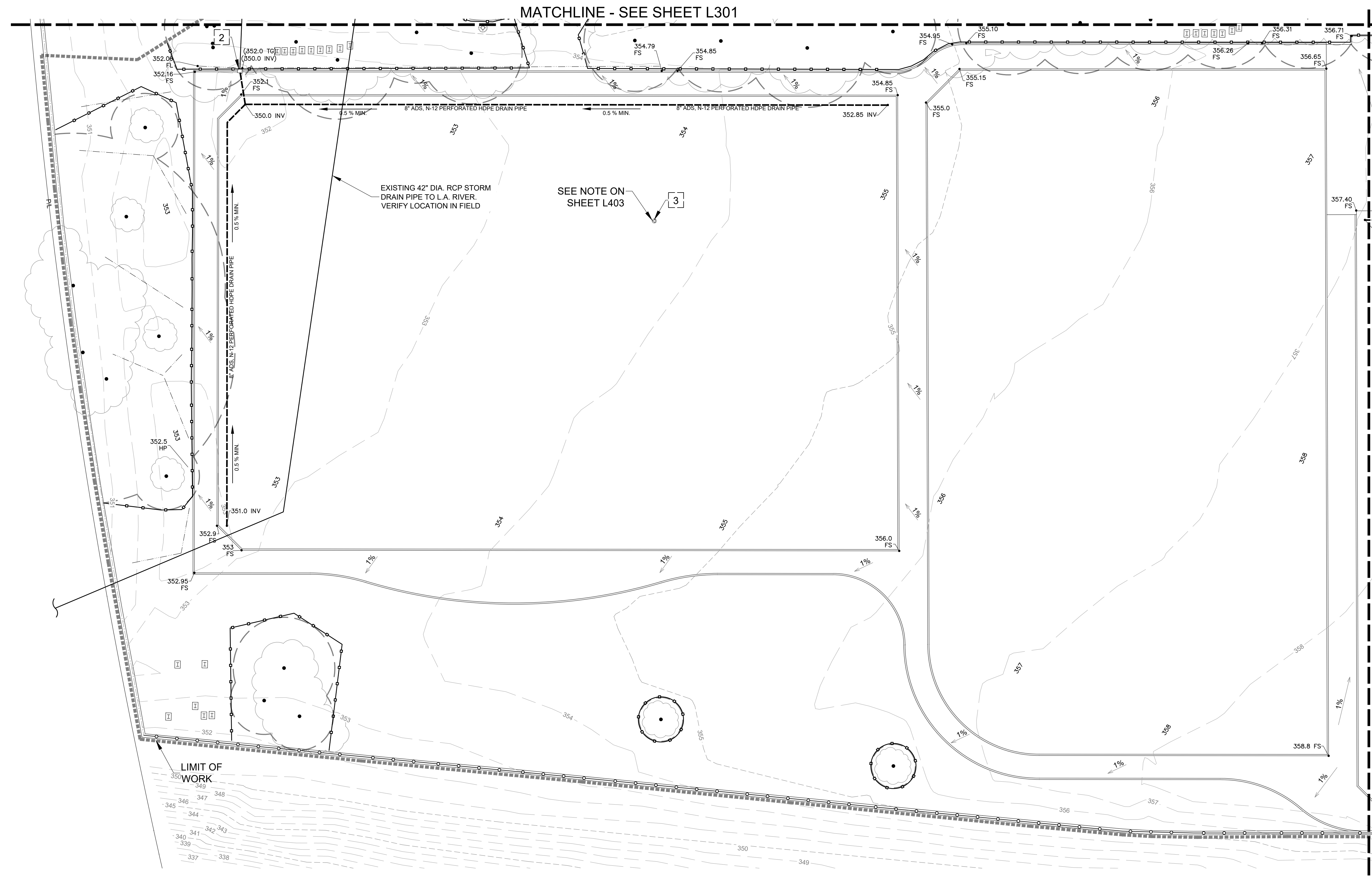
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SIGNATURE & DATE: *Easton To* 7-12-23



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CITY OF LOS ANGELES DEPARTMENT OF PUBLIC WORKS BUREAU OF ENGINEERING

CLIENT: DEPARTMENT OF RECREATION & PARKS GENERAL MANAGER:	GRADING PLAN, SHEET 3 OF 4 PROJECT: RIO DE LOS ANGELES STATE PARK FIELDS MAINTENANCE IMPROVEMENTS PROJECT ADDRESS: 1900 WEST SAN FERNANDO ROAD, LOS ANGELES, CA, 90039
NO. _____ REVISION DESCRIPTION _____ DATE _____ BY _____	INDEX NO. RP-300125 CIP NO. G1188
ENGINEER: TED ALLEN, P.E., CITY ENGINEER DESIGN GROUP:	CITY ENGINEER DATE: _____ ARCHITECT: RICHARD W. FISHER, LANDSCAPE ARCHITECT DESIGNED BY: ERNESTO GONZALEZ, LANDSCAPE ARCH. ASSOCIATE II DRAWN BY: RICHARD W. FISHER, LANDSCAPE ARCHITECT CHECKED BY: RICHARD W. FISHER, LANDSCAPE ARCHITECT APPROVED BY:
WORK ORDER NO. E1908951 FILE NO. 999 DRAWING NO. L303	SHEET 38 OF 100 SHEETS

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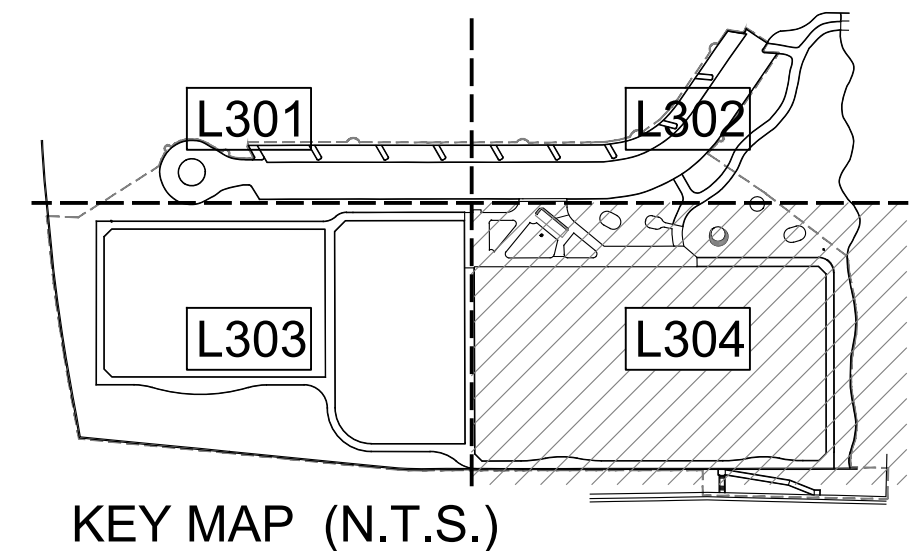
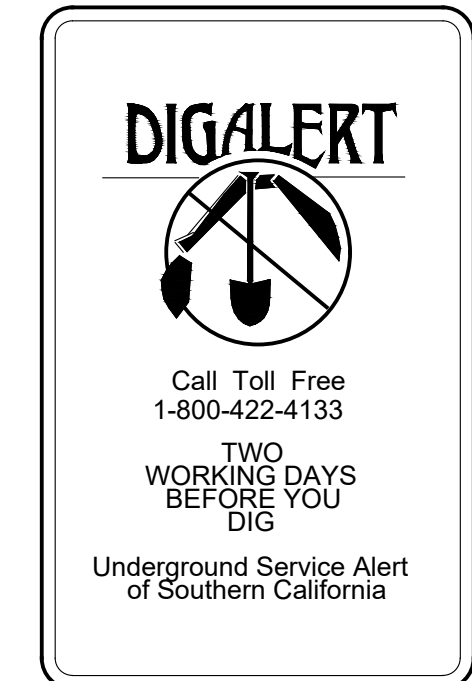
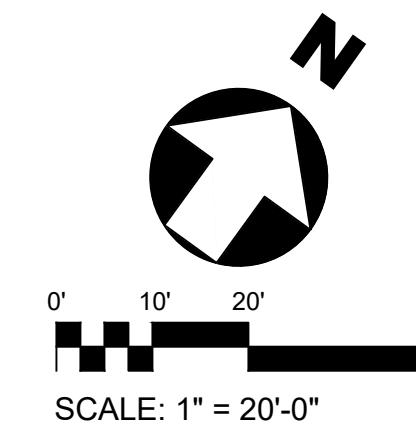
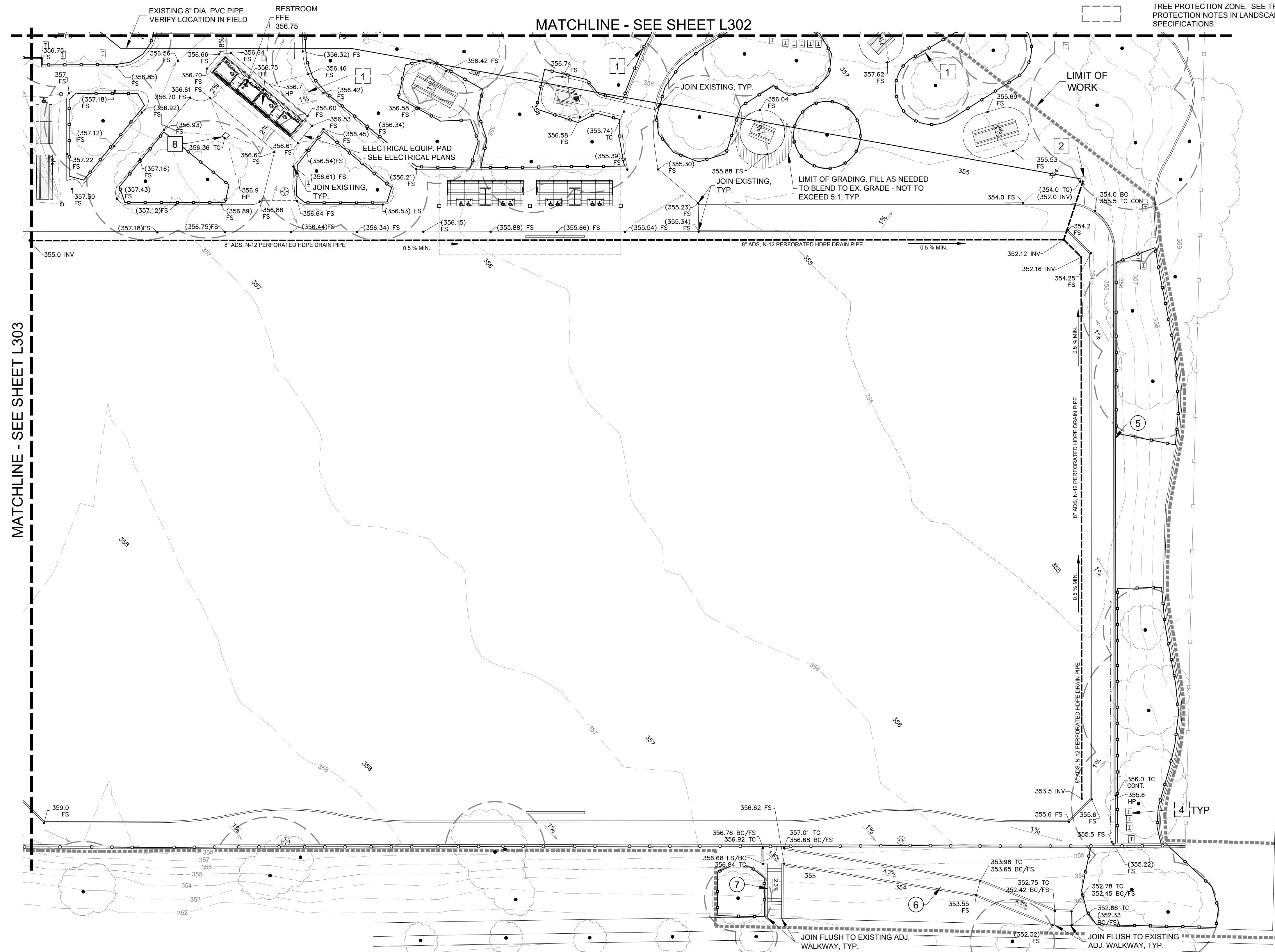
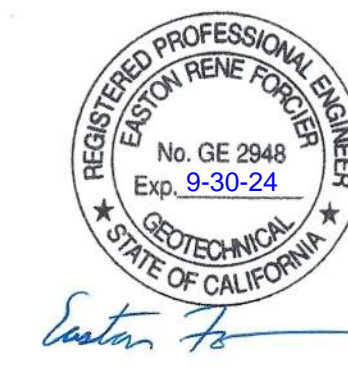
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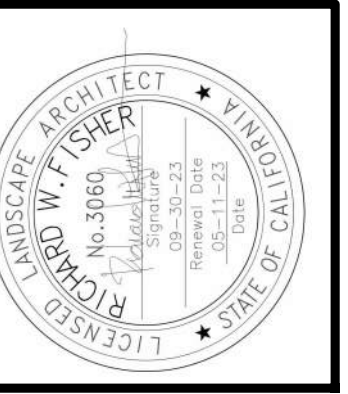
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REVISION DATES (DESIGN STAGE ONLY)

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BUREAU OF ENGINEERING

DEPARTMENT OF PUBLIC WORKS

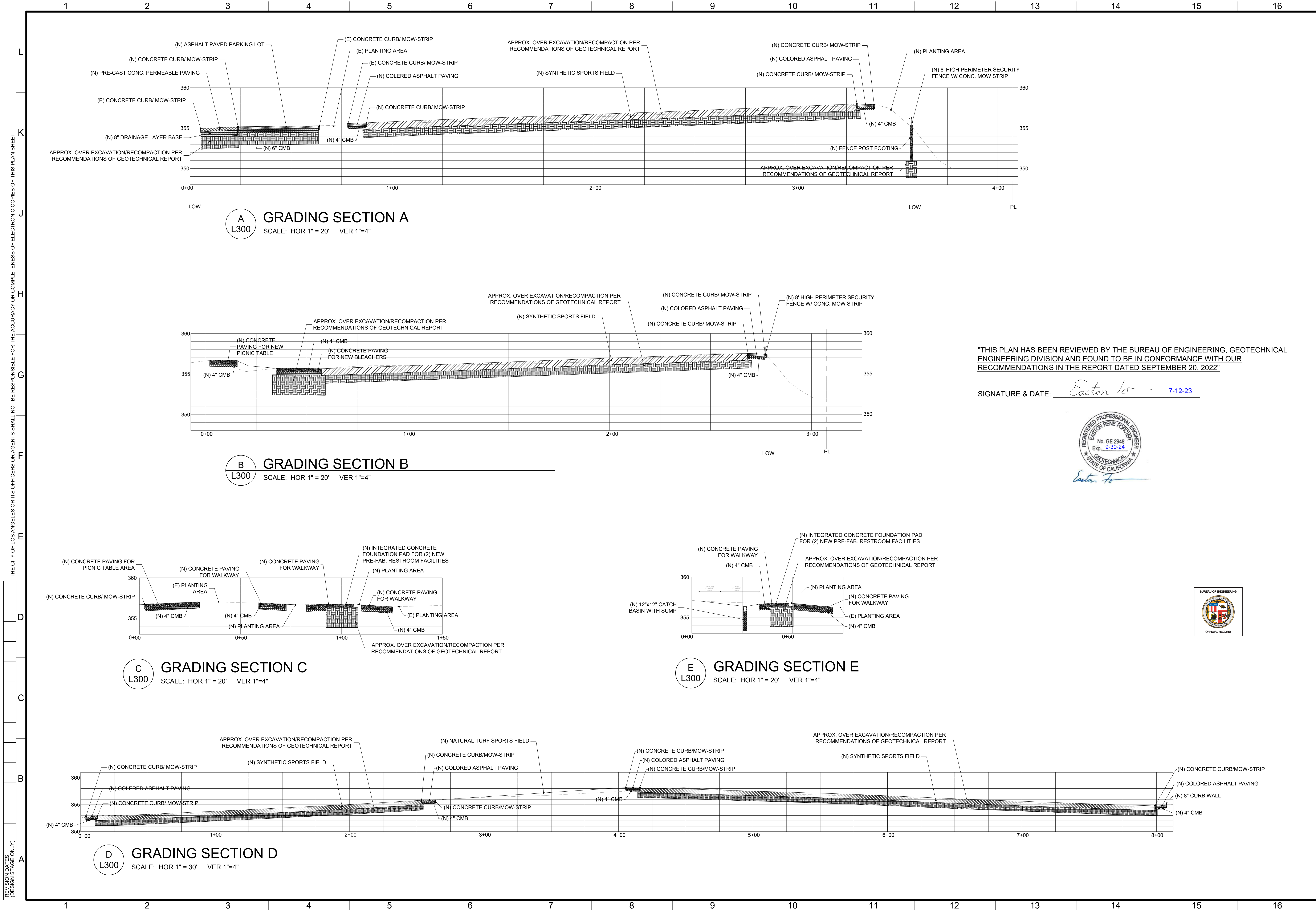
CITY OF LOS ANGELES

CLIENT: DEPARTMENT OF RECREATION & PARKS
 GENERAL MANAGER:
 SHEET TITLE: GRADING PLAN, SHEET 4 OF 4
 PROJECT: RIO DE LOS ANGELES STATE PARK FIELDS MAINTENANCE IMPROVEMENTS PROJECT
 ADDRESS: 1900 WEST SAN FERNANDO ROAD, LOS ANGELES, CA, 90039

INDEX NO. **RP-300125**
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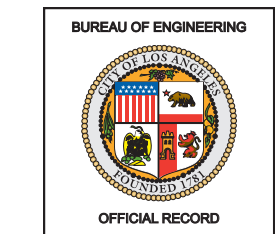
ENGINEER: TED ALLEN, P.E., CITY ENGINEER
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 DRAWN BY: ERNESTO GONZALEZ, LANDSCAPE ARCH. ASSOCIATE II
 CHECKED BY: RICHARD W. FISHER, LANDSCAPE ARCHITECT
 DATE: 7/11/2023

WORK ORDER NO. **E1908951**
 FILE NO. **999**
 DRAWING NO. **L304**
 SHEET **39** OF 100 SHEETS



"THIS PLAN HAS BEEN REVIEWED BY THE BUREAU OF ENGINEERING, GEOTECHNICAL ENGINEERING DIVISION AND FOUND TO BE IN CONFORMANCE WITH OUR RECOMMENDATIONS IN THE REPORT DATED SEPTEMBER 20, 2022"

SIGNATURE & DATE: *Easton Jo* 7-12-23



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THIS PLAN HAS BEEN ELECTRONICALLY SIGNED AND STAMPED

BUREAU OF ENGINEERING

CLIENT: DEPARTMENT OF RECREATION & PARKS
 GENERAL MANAGER: [Blank]
 SHEET TITLE: GRADING SECTIONS
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 ADDRESS: 1900 WEST SAN FERNANDO ROAD, LOS ANGELES, CA, 90039

ENGINEERING
 CITY OF LOS ANGELES

REGISTERED PROFESSIONAL ENGINEER
 EASTON JO
 No. GE 2948
 Exp. 9-30-24
 STATE OF CALIFORNIA

CITY ENGINEER: [Blank]
 DATE: [Blank]
 DESIGNER: [Blank]
 DESIGN GROUP: [Blank]
 ENGINEER: [Blank]
 ARCHITECT: RICHARD W. FISHER, LANDSCAPE ARCHITECT
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INDEX NO. **RP-300125**
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WORK ORDER NO. **E1908951**
 FILE NO. **999**
 DRAWING NO. **L305**
 SHEET **40** OF 100 SHEETS

CONSTRUCTION NOTES:

- PRIOR TO START OF CONSTRUCTION, CONTRACTOR SHALL COORDINATE WITH PROJECT MANAGER TO LOCATE AND DELINEATE THE CONSTRUCTION STAGING AREA. SEE GENERAL CONDITIONS AND GENERAL REQUIREMENTS.
- CONSTRUCTION SIGN SHALL BE INSTALLED WITHIN TWO WEEKS OF THE START OF CONSTRUCTION. OBTAIN PROJECT MANAGER'S APPROVAL FOR SIGN LOCATION AND FINAL TEXT PRIOR TO FABRICATION AND INSTALLATION. SEE LANDSCAPE SPECIFICATIONS AND CONSTRUCTION SIGN DETAIL.
- LIMIT OF WORK IS AT PROPERTY LINE UNLESS OTHERWISE NOTED HEREIN.
- ALL EXISTING R.O.W. CONCRETE SIDEWALK, STREET TREES, LIGHT FIXTURES/WIRING AND DRAINAGE FIXTURES, ETC. ARE TO BE PROTECTED IN PLACE UNLESS OTHERWISE NOTED. SEE GENERAL CONDITIONS.
- ALL EXISTING SITE FEATURES SHOWN TO REMAIN OR LOCATED OUTSIDE THE LIMIT OF WORK SHALL BE PROTECTED IN PLACE. SEE GENERAL CONDITIONS.
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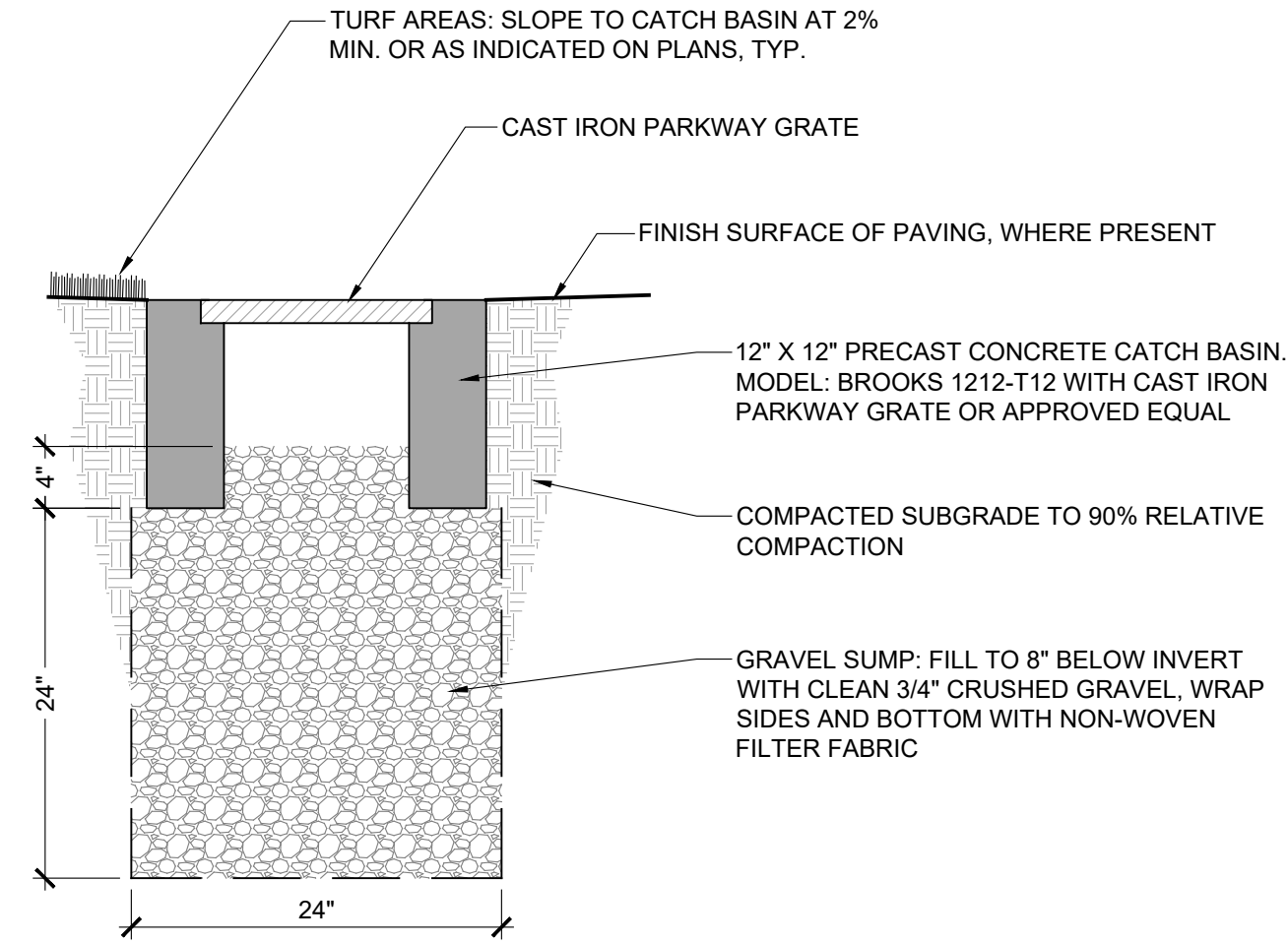
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- EXISTING LIGHT POLE. PROTECT IN PLACE. SEE ELECTRICAL PLANS
- NEW 70FT. LIGHT POLE. SEE ELECTRICAL PLANS
- NEW 30FT. LIGHT POLE. SEE ELECTRICAL PLANS
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SOLAR REFLECTANCE TABLE

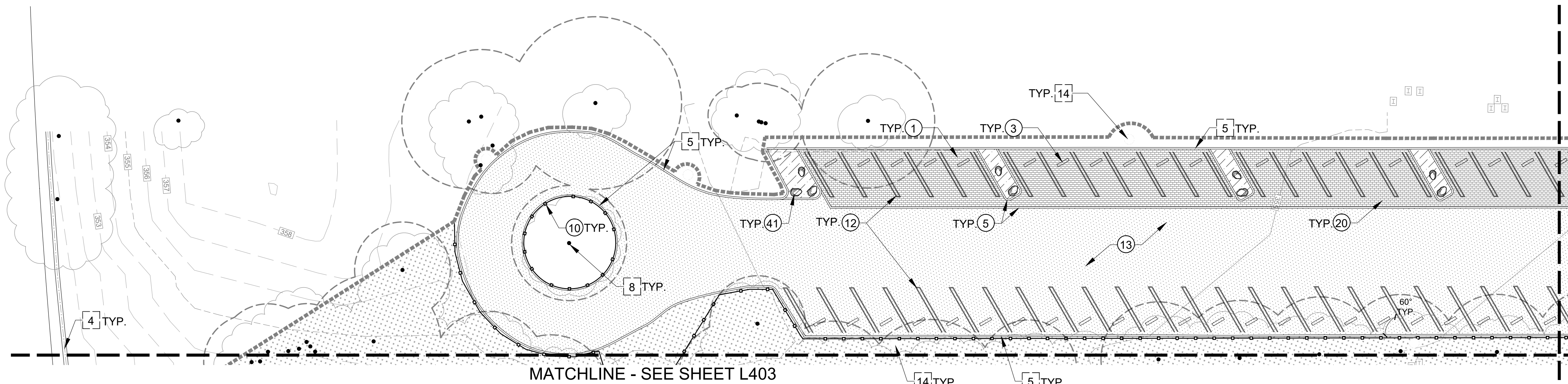
Construction Plan Key Note # (L401-L406)	Surface Type	Solar Reflectance	Proposed Area (Sq. Ft)	% of Total Project Sq. Ft.
13	Parking Lot - Asphalt with "Cool Seal" Coating	0.3	28,683	42%
20	Parking Lot - Solid Concrete Permeable Paving Stone	0.33	9,545	14%
see legend	Fitness Path - Colored Asphalt	< 0.3	19,615	29%
2	Concrete Paving	0.4	7,349	11%
19	Walking Path - Decomposed Granite	0.4	3,620	5%
TOTAL PROJECT HARDSCAPE AREA			68,812	100%
% OF AREA WITH SOLAR REFLECTANCE > 0.3			68,812	71%



- NOTES:**
- TOP OF GRATE AND INVERT ELEVATIONS SHALL BE AS INDICATED ON THE PLANS

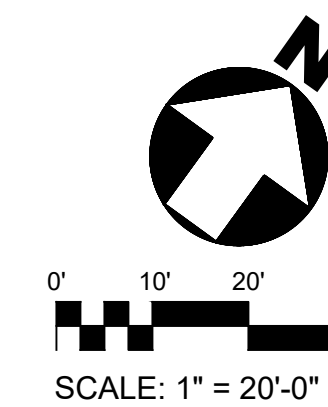
F1 CATCH BASIN WITH SUMP

N.T.S. RP DETAIL ---



KEYNOTES LEGEND

- CONSTRUCT
- EXISTING-PROTECT IN PLACE
- REMOVE AND RECONSTRUCT

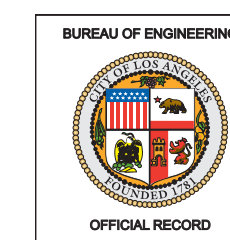
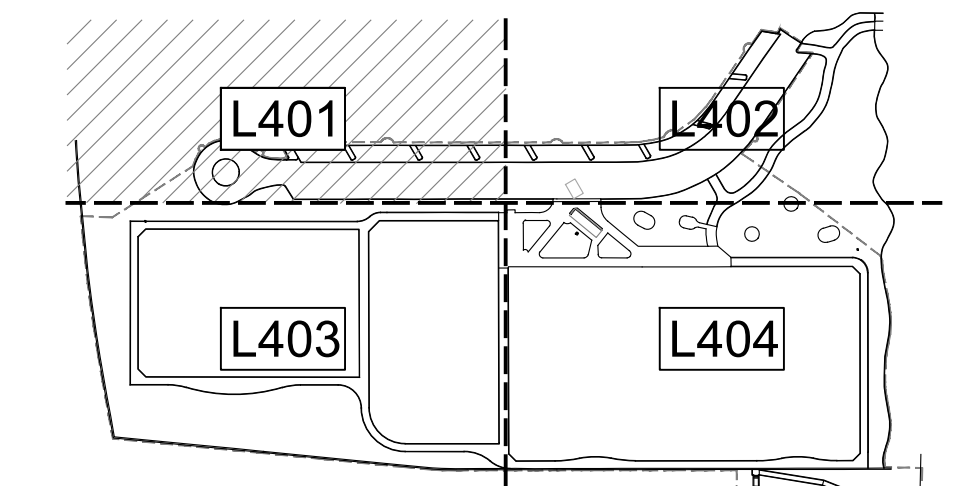


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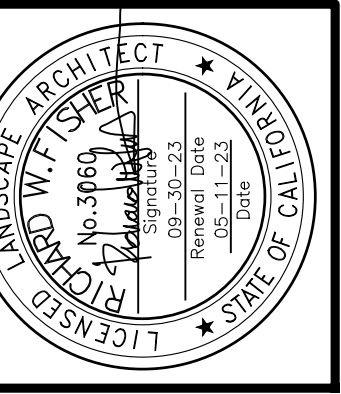
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ENGINEERING



BUREAU OF ENGINEERING

CLIENT: DEPARTMENT OF RECREATION & PARKS

GENERAL MANAGER: [Name]

SHEET TITLE: CONSTRUCTION PLAN, SHEET 1 OF 4

PROJECT: RIO DE LOS ANGELES STATE PARK FIELDS MAINTENANCE IMPROVEMENTS PROJECT

ADDRESS: 1900 WEST SAN FERNANDO ROAD, LOS ANGELES, CA. 90039

DEPARTMENT OF PUBLIC WORKS

NO. [] DATE [] BY []

REVISION DESCRIPTION []

CIP NO. G1188

INDEX NO. RP-300125

TED ALLEN, P.E., CITY ENGINEER

DESIGN GROUP []

DATE []

ENGINEER: []

ARCHITECT: RICHARD W. FISHER, LANDSCAPE ARCHITECT

DESIGNED BY: ERNESTO GONZALEZ, LANDSCAPE ARCH. ASSOCIATE II 7/13/2023

DRAWN BY: RICHARD W. FISHER, LANDSCAPE ARCHITECT

CHECKED BY: RICHARD W. FISHER, LANDSCAPE ARCHITECT

APPROVED BY: []

WORK ORDER NO. E1908951

FILE NO. 999

DRAWING NO. **L401**

SHEET 41 OF 100 SHEETS

REVISION DATES (DESIGN STAGE ONLY)

CONSTRUCTION NOTES:

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CONSTRUCTION LEGEND

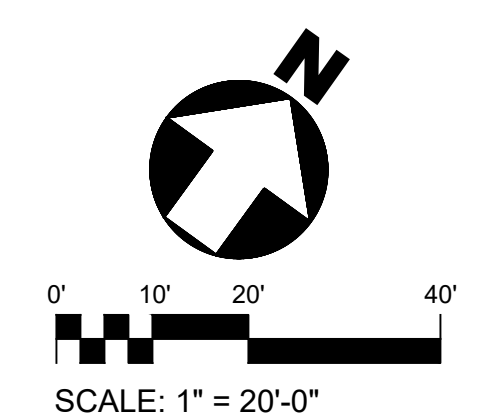
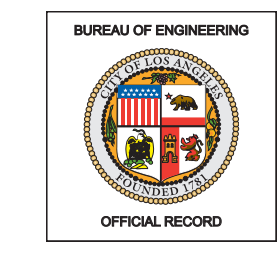
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- TREE PROTECTION ZONE FENCING. SEE L017 TREE PROTECTION NOTES AND DETAIL A13/L017
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- NEW LIGHT POLE. SEE ELECTRICAL PLANS
- NEW 30FT. LIGHT POLE. SEE ELECTRICAL PLANS
- TREE PROTECTION ZONE. SEE TREE PROTECTION NOTES ON SHEET L017
- EXISTING TREE TO REMAIN. PROTECT IN PLACE.

KEYNOTES

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- CONCRETE MOW STRIP/HEADER. INSTALL PER DETAIL A1/L407
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- EXISTING CATCH BASIN TO REMAIN - PROTECT IN PLACE
- EXISTING TREE TO REMAIN - SEE TREE PROTECTION REQUIREMENTS
- EXISTING 7-STATION BIKE RACK TO REMAIN - PROTECT IN PLACE & REPAIR TO MATCH ORIGINAL FINISH
- TREE PROTECTION FENCE. INSTALL PER DETAIL A13/L017
- (4) ADA PARKING SPACE. INSTALL PER DETAIL H1/L408 AND H5/L408
- (95) STANDARD 18'X9' PARKING SPACE. INSTALL PER DETAIL H1/L408 AND H5/L408
- AC PARKING LOT PAVING PER DETAIL H13/L407. AFTER ASPHALT INSTALLATION, APPLY FINISH COATING: APPLY 2 COATS OF "COOL SEAL" COATING (SRI=30) @ 20 GAL/1000 S.F. PER MFR'S INSTRUCTIONS. SEE "DRIVEWAY & PARKING LOT ASPHALT COATING" IN LANDSCAPE SPECIFICATIONS.
- EXISTING AND/OR NEW LIGHT POLE WITH CONCRETE BASE. REFER TO ELECTRICAL PLANS. PROTECT EXISTING LIGHT POLES IN PLACE
- CONCRETE CURB WALL. INSTALL PER DETAIL A13/L407
- NEW 8" STEEL BENCH, MODEL FS-50 BY VICTOR STANLEY. IN-GROUND MOUNT WITH CENTER ARMREST. INSTALL PER DETAIL A13/L410
- (2) NEW EXELOO 'JUPITER' 2-STALL RESTROOM FACILITY. REFER TO SHEET L405-L406
- NEW CANTILEVER FABRIC SHADE STRUCTURE FOR BLEACHERS BY NATIONAL RECREATION SYSTEMS. CONTACT NATE YOUNKER AT (858)344-0445. REFER TO SHEET L413
- DECOMPOSED GRANITE PAVING (ADA COMPLIANT MATERIAL). INSTALL PER DETAIL E9/L407
- PRE-CAST CONCRETE INTERLOCKING PAVING UNITS: BASALITE - SF RIMA PERMEABLE PAVING STONE OR APPROVED EQUAL. INSTALL PER DETAIL A9/L407
- CONCRETE PICNIC TABLE, MODEL #109S BY OUTDOOR CREATIONS INC. INSTALL PER DETAIL H9/L409. COLOR: TIERRA. FINISH: SMOOTH
- ADA CONCRETE PICNIC TABLE, MODEL #109S2E BY OUTDOOR CREATIONS INC. INSTALL PER DETAIL H9/L409. COLOR: TIERRA. FINISH: SMOOTH
- EXISTING MONITORING WELL TO REMAIN - PROTECT IN PLACE
- (6) NEW 55 GAL. STEEL TRASH CAN ENCLOSURE BY ULTRASITE, MODEL: AG-55FT AUGUSTA 55 GAL. WITH LOCKABLE SIDE DOOR OR APPROVED EQUAL. INSTALL PER DETAIL H13/L409. COLOR: CHAMPAGNE
- NEW SYNTHETIC SPORTS TURF FIELD (FIELD #6 & #8) AND STRIPING, ETC. REFER TO SHEET L414-L419
- NEW SODDED TURF SPORTS FIELD (FIELD #7). REFER TO SHEET L703
- NEW 4' HIGH CHAIN LINK FENCE. INSTALL PER DETAIL A5/L408
- NEW PICNIC AREA TENSION FABRIC TYPE SHADE STRUCTURE BY SUPERIOR RECREATIONAL PRODUCTS. CONTACT NATE YOUNKER AT (858)344-0445. REFER TO SHEET L412
- (2) NEW ALUMINUM BLEACHER: 5-ROW X 27" MODEL #0527ADA_VP BY NATIONAL RECREATION SYSTEMS. CONTACT NATE YOUNKER AT (858)344-0445. REFER TO DETAIL H9/L410
- 13' RINO GATE. INSTALL PER DETAIL E5/L408
- 30'X60' BALL STOP NET & POST SYSTEM. INSTALL PER DETAIL A9/L408 & A5/L408
- 40'X80' BALL STOP NET & POST SYSTEM. INSTALL PER DETAIL H5/L411
- (3) ACCESSIBLE PARKING SIGNS. INSTALL PER DETAILS H5/L408 AND H13/L408
- (3) TOW SIGN. INSTALL PER DETAIL H5/L408 AND H13/L408
- NEW 8' HIGH TUBULAR STEEL FENCE. INSTALL PER DETAIL D1/L411
- NEW 4' HIGH X 10' WIDE DOUBLE LEAF CHAIN LINK GATE. INSTALL PER DETAIL A1/L408
- NEW 8' HIGH X 5' WIDE GATE. INSTALL PER DETAIL A1/L409
- DETECTABLE WARNING SURFACE. INSTALL PER DETAIL H5/L408
- NEW GOOSENECK HIGH SCHOOL FOOTBALL GOAL MODEL #LA-FB1452-HS-PC-W BY L.A. STEELCRAFT. INCLUDE LA-8304-48 ANTI-SPIN GROUND SLEEVES AND LA-PP-645 POST PADS. CONTACT NATE YOUNKER AT (858)344-0445. ALL REQUIRED PERMITS AND CLEARANCES TO BE OBTAINED BY THE CONTRACTOR, INCLUDING STRUCTURAL OR FOOTING DESIGN CALCULATIONS. INSTALL PER MFR'S INSTRUCTIONS
- PROVIDE AND INSTALL DRINKING FOUNTAIN PER DETAIL E1/L607
- GRANITE BOULDER. INSTALL PER DETAIL A5/L410
- (2) NEW ALUMINUM BENCH: 'PB' PERMANENT BENCH W/ BACK, 21'-0" LONG BY NATIONAL RECREATION SYSTEMS. CONTACT NATE YOUNKER AT (858)344-0445. REFER TO DETAIL A1/L410
- NEW 12'X12' CONCRETE CATCH BASIN. INSTALL PER DETAIL F1/L401. SEE SHEET L304 FOR TOP OF GRATE & INVERT ELEVATION
- NEW CONCRETE PAD FOR NEW ELECTRICAL PANELS AND ENCLOSURE. SEE SHEET L406 & DETAIL H1/E301
- EXISTING SEWER CLEANOUT. ADJUST TO FINISH GRADE WHERE NECESSARY.
- AC PAVING WALKWAY PER. INSTALL PER DETAIL A9/L410

KEYNOTES LEGEND

- CONSTRUCT
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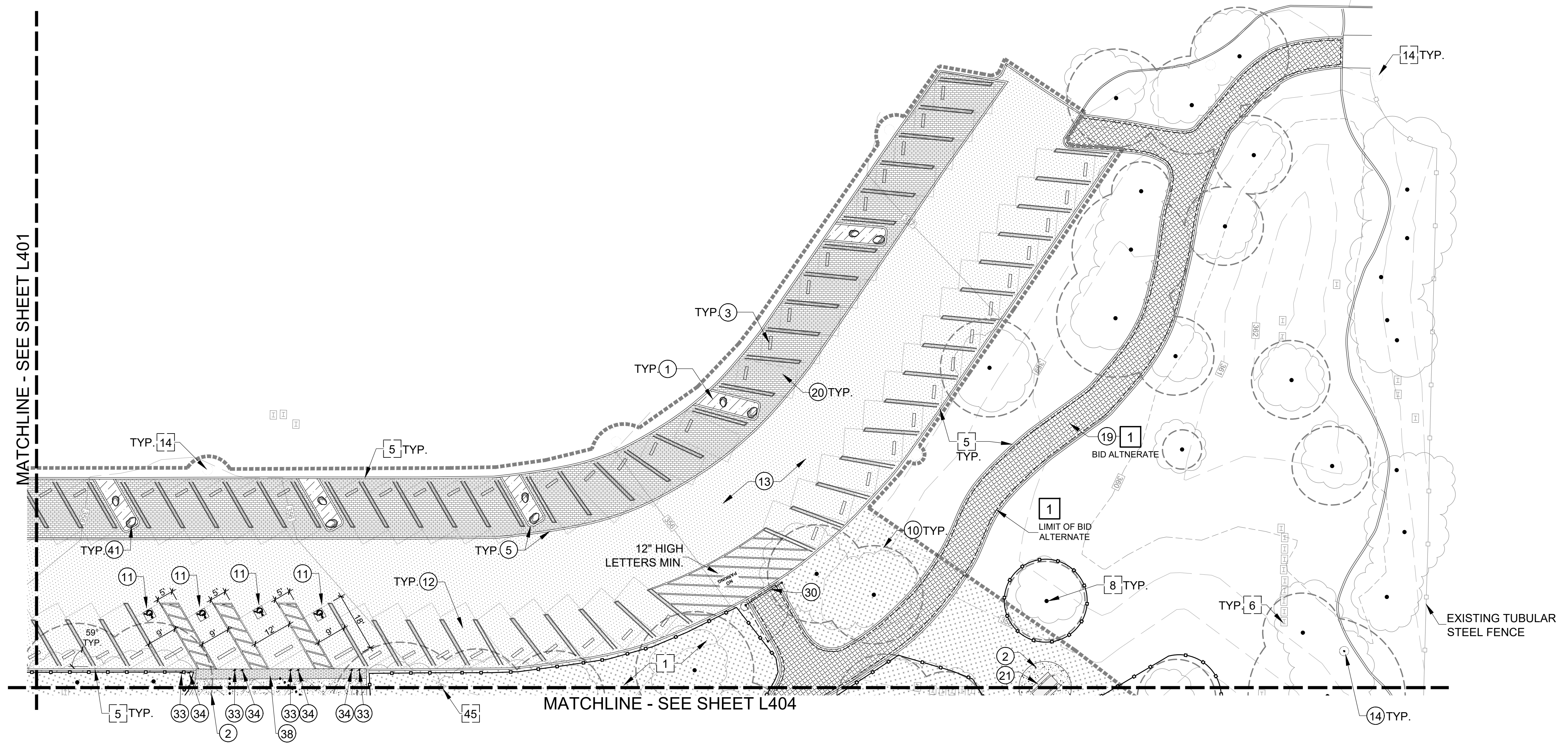
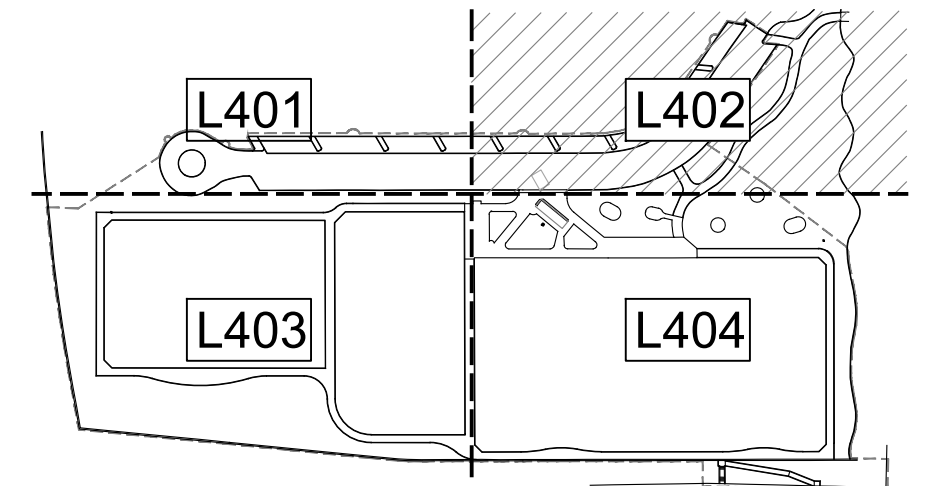


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DEPARTMENT OF PUBLIC WORKS

CLIENT: DEPARTMENT OF RECREATION & PARKS
GENERAL MANAGER: [Name]
SHEET TITLE: CONSTRUCTION PLAN, SHEET 2 OF 4
PROJECT: RIO DE LOS ANGELES STATE PARK FIELDS MAINTENANCE IMPROVEMENTS PROJECT
ADDRESS: 1900 WEST SAN FERNANDO ROAD, LOS ANGELES, CA, 90039

INDEX NO. RP-300125
CIP NO. G1188

ENGINEER: TED ALLEN, P.E., CITY ENGINEER
DESIGNED BY: RICHARD W. FISHER, LANDSCAPE ARCHITECT
DRAWN BY: ERNESTO GONZALEZ, LANDSCAPE ARCH. ASSOCIATE II
CHECKED BY: RICHARD W. FISHER, LANDSCAPE ARCHITECT
APPROVED BY: [Signature]

WORK ORDER NO. E1908951
FILE NO. 999
DRAWING NO. L402
SHEET 42 OF 100 SHEETS

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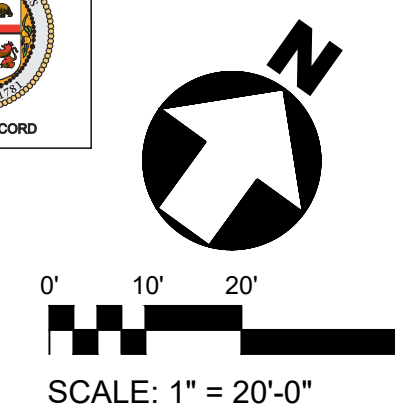
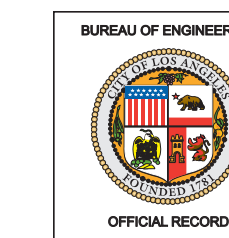
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- (4) ADA PARKING SPACE. INSTALL PER DETAIL H1/L408 AND H5/L408
- (95) STANDARD 18'X9' PARKING SPACE. INSTALL PER DETAIL H1/L408 AND H5/L408
- AC PARKING LOT PAVING PER DETAIL H13/L407. AFTER ASPHALT INSTALLATION, APPLY FINISH COATING: APPLY 2 COATS OF "COOL SEAL" COATING (SRI=30) @ 20 GAL/1000 S.F. PER MFR'S INSTRUCTIONS. SEE "DRIVEWAY & PARKING LOT ASPHALT COATING" IN LANDSCAPE SPECIFICATIONS.
- EXISTING AND/OR NEW LIGHT POLE WITH CONCRETE BASE. REFER TO ELECTRICAL PLANS. PROTECT EXISTING LIGHT POLES IN PLACE
- CONCRETE CURB WALL. INSTALL PER DETAIL A13/L407
- NEW 8' STEEL BENCH. MODEL FS-50 BY VICTOR STANLEY. IN-GROUND MOUNT WITH CENTER ARMREST. INSTALL PER DETAIL A13/L410
- (2) NEW EXELOO 'JUPITER' 2-STALL RESTROOM FACILITY. REFER TO SHEET L405-L406
- NEW CANTILEVER FABRIC SHADE STRUCTURE FOR BLEACHERS BY NATIONAL RECREATION SYSTEMS. CONTACT NATE YOUNKER AT (858)344-0445. REFER TO SHEET L413
- DECOMPOSED GRANITE PAVING (ADA COMPLIANT MATERIAL). INSTALL PER DETAIL E9/L407
- PRE-CAST CONCRETE INTERLOCKING PAVING UNITS: BASALITE - SF RIMA PERMEABLE PAVING STONE OR APPROVED EQUAL. INSTALL PER DETAIL A9/L407
- CONCRETE PICNIC TABLE. MODEL #109S BY OUTDOOR CREATIONS INC. INSTALL PER DETAIL H9/L409. COLOR: TIERRA. FINISH: SMOOTH
- ADA CONCRETE PICNIC TABLE. MODEL #109S2E BY OUTDOOR CREATIONS INC. INSTALL PER DETAIL H9/L409. COLOR: TIERRA. FINISH: SMOOTH
- EXISTING MONITORING WELL TO REMAIN - PROTECT IN PLACE
- (6) NEW 55 GAL. STEEL TRASH CAN ENCLOSURE BY ULTRASTITE. MODEL: AG-55FT AUGUSTA 55 GAL. WITH LOCKABLE SIDE DOOR OR APPROVED EQUAL. INSTALL PER DETAIL H13/L409. COLOR: CHAMPAGNE
- NEW SYNTHETIC SPORTS TURF FIELD (FIELD #6 & #8) AND STRIPING, ETC. REFER TO SHEET L414-L419
- NEW SODDED TURF SPORTS FIELD (FIELD #7). REFER TO SHEET L703
- NEW 4' HIGH CHAIN LINK FENCE. INSTALL PER DETAIL A5/L408
- NEW PICNIC AREA TENSION FABRIC TYPE SHADE STRUCTURE BY SUPERIOR RECREATIONAL PRODUCTS. CONTACT NATE YOUNKER AT (858)344-0445. REFER TO SHEET L412
- (2) NEW ALUMINUM BLEACHER: 5-ROW X 27' MODEL #0527ADA_VP BY NATIONAL RECREATION SYSTEMS. CONTACT NATE YOUNKER AT (858)344-0445. REFER TO DETAIL H9/L410
- (3) RINO GATE. INSTALL PER DETAIL E5/L408
- 30'X60' BALL STOP NET & POST SYSTEM. INSTALL PER DETAIL A9/L408 & A5/L408
- 40'X80' BALL STOP NET & POST SYSTEM. INSTALL PER DETAIL H5/L411
- (3) ACCESSIBLE PARKING SIGNS. INSTALL PER DETAILS H5/L408 AND H13/L408
- (3) TOW SIGN. INSTALL PER DETAIL H5/L408 AND H13/L408
- NEW 8' HIGH TUBULAR STEEL FENCE. INSTALL PER DETAIL D1/L411
- NEW 4' HIGH X 10' WIDE DOUBLE LEAF CHAIN LINK GATE. INSTALL PER DETAIL A1/L408
- NEW 8' HIGH X 5' WIDE GATE. INSTALL PER DETAIL A1/L409
- DETECTABLE WARNING SURFACE. INSTALL PER DETAIL H5/L408
- NEW GOOSENECK HIGH SCHOOL FOOTBALL GOAL MODEL #LA-FB1452-HS-FCH-WYLA. STEELCRAFT INCLUDE LA-8304-48 ANTI-SPIN GROUND SLEEVES AND LA-PP-645 POST PADS. CONTACT NATE YOUNKER AT (858)344-0445. ALL REQUIRED PERMITS AND CLEARANCES TO BE OBTAINED BY THE CONTRACTOR, INCLUDING STRUCTURAL OR FOOTING DESIGN CALCULATIONS. INSTALL PER MFR'S INSTRUCTIONS
- PROVIDE AND INSTALL DRINKING FOUNTAIN PER DETAIL E1/L607
- GRANITE BOULDER. INSTALL PER DETAIL A5/L410
- (2) NEW ALUMINUM BENCH: 'PB' PERMANENT BENCH W/ BACK, 21'-0" LONG BY NATIONAL RECREATION SYSTEMS. CONTACT NATE YOUNKER AT (858)344-0445. REFER TO DETAIL A1/L410
- NEW 12'X12' CONCRETE CATCH BASIN. INSTALL PER DETAIL F1/L401. SEE SHEET L304 FOR TOP OF GRATE & INVERT ELEVATION
- NEW CONCRETE PAD FOR NEW ELECTRICAL PANELS AND ENCLOSURE. SEE SHEET L406 & DETAIL H1/E301
- EXISTING SEWER CLEANOUT. ADJUST TO FINISH GRADE WHERE NECESSARY.
- AC PAVING WALKWAY PER. INSTALL PER DETAIL A9/L410

KEYNOTES LEGEND

- CONSTRUCT
- EXISTING-PROTECT IN PLACE
- REMOVE AND RECONSTRUCT

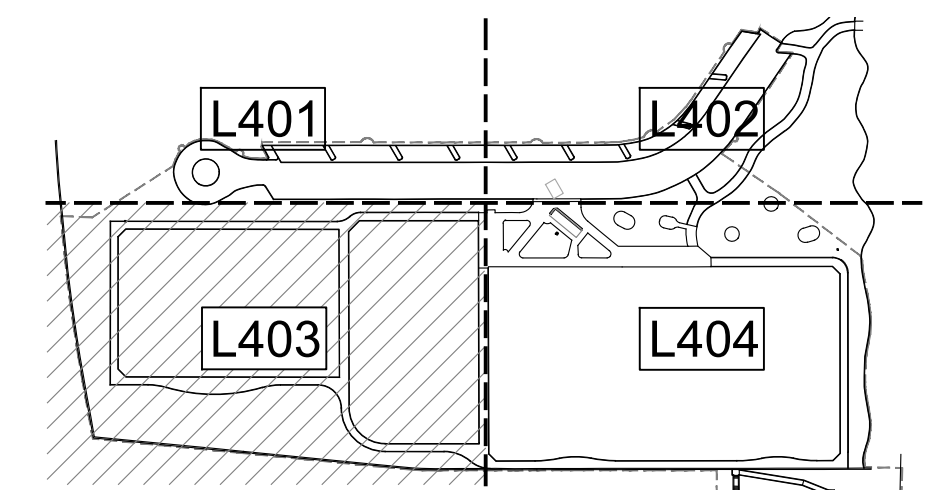


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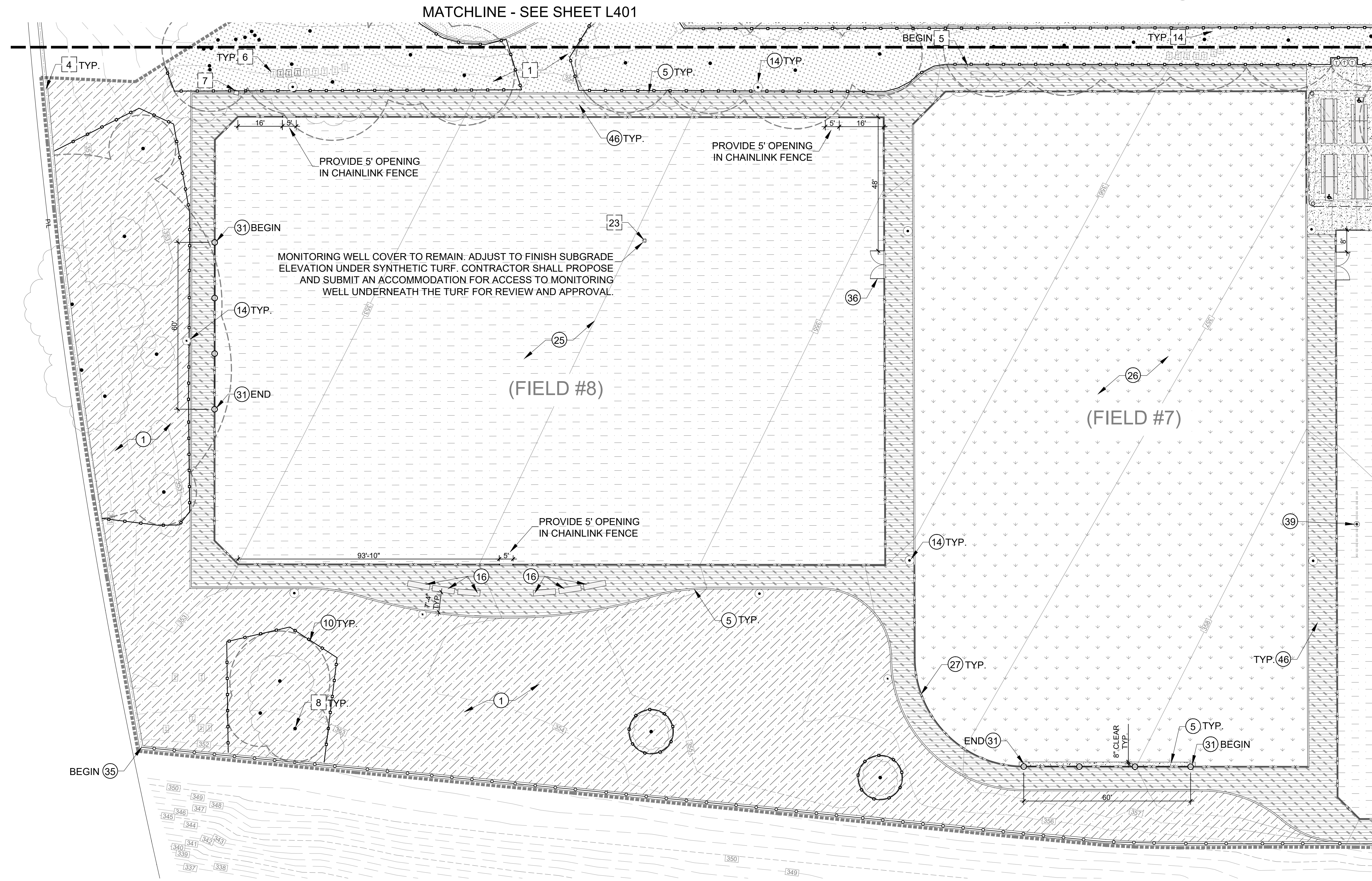
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Underground Service Alert of Southern California



MATCHLINE - SEE SHEET L401

MATCHLINE - SEE SHEET L404



REVISION DATES (DESIGN STAGE ONLY)

ENGINEERING
CITY OF LOS ANGELES

BUREAU OF ENGINEERING

CLIENT: DEPARTMENT OF RECREATION & PARKS
GENERAL MANAGER: [Name]
SHEET TITLE: CONSTRUCTION PLAN, SHEET 3 OF 4
PROJECT: RIO DE LOS ANGELES STATE PARK FIELDS MAINTENANCE IMPROVEMENTS PROJECT
ADDRESS: 1900 WEST SAN FERNANDO ROAD, LOS ANGELES, CA. 90039

INDEX NO. **RP-300125** CIP NO. **G1188**

CITY OF LOS ANGELES DEPARTMENT OF PUBLIC WORKS

DESIGNER: TED ALLEN, P.E., CITY ENGINEER
ARCHITECT: RICHARD W. FISHER, LANDSCAPE ARCHITECT
DESIGNED BY: RICHARD W. FISHER, LANDSCAPE ARCHITECT
DRAWN BY: ERNESTO GONZALEZ, LANDSCAPE ARCH. ASSOCIATE II
CHECKED BY: RICHARD W. FISHER, LANDSCAPE ARCHITECT
APPROVED BY: [Signature]

DATE: 7/13/2023
WORK ORDER NO. **E1908951**
FILE NO. **999**
DRAWING NO. **L403**
SHEET **43** OF 100 SHEETS

CONSTRUCTION NOTES:

- PRIOR TO START OF CONSTRUCTION, CONTRACTOR SHALL COORDINATE WITH PROJECT MANAGER TO LOCATE AND DELINEATE THE CONSTRUCTION STAGING AREA. SEE GENERAL CONDITIONS AND GENERAL REQUIREMENTS.
- CONSTRUCTION SIGN SHALL BE INSTALLED WITHIN TWO WEEKS OF THE START OF CONSTRUCTION. OBTAIN PROJECT MANAGER'S APPROVAL FOR SIGN LOCATION AND FINAL TEXT PRIOR TO FABRICATION AND INSTALLATION. SEE LANDSCAPE SPECIFICATIONS AND CONSTRUCTION SIGN DETAIL.
- LIMIT OF WORK IS AT PROPERTY LINE UNLESS OTHERWISE NOTED HEREIN.
- ALL EXISTING R.O.W. CONCRETE SIDEWALK, STREET TREES, LIGHT FIXTURES/WIRING AND DRAINAGE FIXTURES, ETC. ARE TO BE PROTECTED IN PLACE UNLESS OTHERWISE NOTED. SEE GENERAL CONDITIONS.
- ALL EXISTING SITE FEATURES SHOWN TO REMAIN OR LOCATED OUTSIDE THE LIMIT OF WORK SHALL BE PROTECTED IN PLACE. SEE GENERAL CONDITIONS.
- ADJACENT FENCING AND C.M.U. WALLS OUTSIDE OF PROPERTY LINE SHALL BE PROTECTED IN PLACE AND NOT DISTURBED WITHOUT PROPERTY OWNERS WRITTEN PERMISSION. SEE GENERAL CONDITIONS.
- ANY NEW CONSTRUCTION LOCATED WITHIN THE PROTECTED ROOT AREA OF AN EXISTING TREE IS SUBJECT TO THE REQUIREMENTS LISTED IN THE SECTION "TREE PROTECTION GUIDELINES" OF THE LANDSCAPE SPECIFICATIONS. PRIOR TO ANY CONSTRUCTION, CONTRACTOR SHALL HAVE ALL REQUIRED TREE PROTECTION ZONE FENCING IN PLACE AND APPROVED BY ENGINEER AND/OR RMP FORESTRY.
- ALL MATERIAL AND WORK SHOWN ON THIS PLAN SHALL BE FURNISHED AND INSTALLED BY THE CONTRACTOR UNLESS OTHERWISE NOTED. LAYOUT AND STAKING OF ALL PROJECT ELEMENTS SHALL BE DONE A LICENSED SURVEYOR PROVIDED BY THE CONTRACTOR AT HIS OWN EXPENSE. DIGITAL PLAN FILES SHALL BE PROVIDED BY CITY TO FACILITATE LAYOUT. FINAL LAYOUT AND LOCATION OF ALL PROJECT ELEMENTS SHALL BE REVIEWED AND APPROVED BY THE PROJECT MANAGER PRIOR TO INSTALLATION. CONTRACTOR SHALL REQUEST REVIEW AND APPROVAL OF LAYOUT FOR ANY PROJECT ELEMENTS 48 HOURS MINIMUM IN ADVANCE. SEE LANDSCAPE SPECIFICATIONS.
- PAVING, MASONRY AND CONCRETE INSTALLERS ARE TO COORDINATE WITH THE ELECTRICAL, DRAINAGE AND IRRIGATION INSTALLERS/SUBCONTRACTORS FOR SLEEVING, PIPING AND/OR CONDUIT INSTALLATION UNDER OR THROUGH HARDSCAPE ELEMENTS PRIOR TO INSTALLATION OF HARDSCAPE ELEMENTS.

BID ALTERNATE LEGEND

THE FOLLOWING ITEMS SHALL BE BID AS ADDITIVE ALTERNATES PER INSTRUCTIONS TO BIDDERS - SEE PLANS AND NOTES FOR DETAILED DESCRIPTION OF THE WORK TO BE INCLUDED IN EACH BID.

- RENOVATE EXISTING DECOMPOSED GRANITE PAVING: REMOVE 2" OF MATERIAL FROM SURFACE, AND INSTALL NEW 'ORGANIC LOCK' DECOMPOSED GRANITE MATERIAL TO CORRECT FINISH GRADE AND PROFILE PER DETAIL E9/L407. EXISTING CONCRETE EDGING SHALL BE PROTECTED IN PLACE.

CONSTRUCTION LEGEND

- CONCRETE PAVING, COLOR: NATURAL GRAY, MED. BROOM FINISH. SEE DETAIL E1/L407
- DECOMPOSED GRANITE PAVING (ADA COMPLIANT MATERIAL). SEE DETAIL E9/L407
- AC PAVING WALKWAY. SEE DETAIL A9/L410
- AC PAVING PARKING LOT. SEE DETAIL H13/L407
- INTERLOCKING CONCRETE PAVING STONES. SEE DETAIL H5/L407
- DETECTABLE WARNING SURFACE. INSTALL PER DETAIL H5/L408
- NEW SODDED TURF. SEE L701-L74
- NEW SYNTHETIC TURF SPORTS FIELD AND STRIPING, ETC. SEE L414-L418
- NEW MULCHED PLANTING AREA. SEE L701-L704
- LANDSCAPE AREA TO REMAIN. PROTECT IN PLACE.

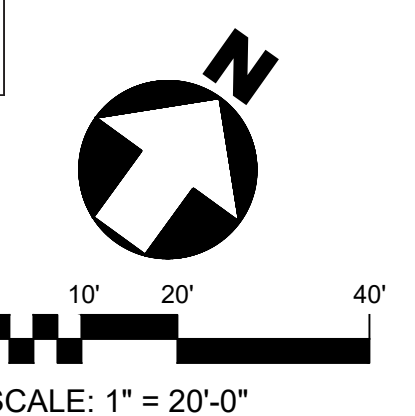
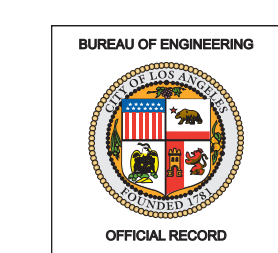
- LIMIT OF WORK (OFFSET FOR CLARITY).
- EX. CHAINLINK FENCING TO REMAIN. PROTECT IN PLACE.
- 4' HIGH CHAINLINK FENCING. SEE DETAIL A5/L408
- 8' HIGH TUBULAR STEEL FENCING. SEE DETAIL D1/L411
- TREE PROTECTION ZONE FENCING. SEE L017 TREE PROTECTION NOTES AND DETAIL A13/L017
- EXISTING LIGHT POLE. PROTECT IN PLACE.
- NEW LIGHT POLE. SEE ELECTRICAL PLANS
- NEW 30FT. LIGHT POLE. SEE ELECTRICAL PLANS
- TREE PROTECTION ZONE. SEE TREE PROTECTION NOTES ON SHEET L017
- EXISTING TREE TO REMAIN. PROTECT IN PLACE.

KEYNOTES

- PLANTING AREA. SEE PLANTING PLANS, SHEET L701-L704
- CONCRETE PAVING, NATURAL GRAY; MED. BROOM FINISH. INSTALL PER DETAIL E1/L407
- CONCRETE WHEEL STOP. INSTALL PER DETAIL E1/L408
- EX. 8' HIGH CHAIN LINK FENCE/GATE TO REMAIN, TYP.
- CONCRETE MOW STRIP/HEADER. INSTALL PER DETAIL A1/L407
- PULL BOX/VALVE BOX. PROTECT IN PLACE. REFER TO ELECTRICAL AND IRRIGATION PLANS FOR NEW PULL BOX/VALVE BOX LOCATIONS.
- EXISTING CATCH BASIN TO REMAIN - PROTECT IN PLACE
- EXISTING TREE TO REMAIN - SEE TREE PROTECTION REQUIREMENTS
- EXISTING 7-STATION BIKE RACK TO REMAIN - PROTECT IN PLACE & REPAINT TO MATCH ORIGINAL FINISH
- TREE PROTECTION FENCE. INSTALL PER DETAIL A13/L017
- (4) ADA PARKING SPACE. INSTALL PER DETAIL H1/L408 AND H5/L408
- (95) STANDARD 18'X9' PARKING SPACE. INSTALL PER DETAIL H1/L408 AND H5/L408
- AC PARKING LOT PAVING PER DETAIL H13/L407. AFTER ASPHALT INSTALLATION, APPLY FINISH COATING: APPLY 2 COATS OF "COOL SEAL" COATING (SRI=30) @ 20 GAL/1000 S.F. PER MFR'S INSTRUCTIONS. SEE "DRIVEWAY & PARKING LOT ASPHALT COATING" IN LANDSCAPE SPECIFICATIONS.
- EXISTING AND/OR NEW LIGHT POLE WITH CONCRETE BASE. REFER TO ELECTRICAL PLANS. PROTECT EXISTING LIGHT POLES IN PLACE
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- NEW 8" STEEL BENCH. MODEL FS-50 BY VICTOR STANLEY. IN-GROUND MOUNT WITH CENTER ARMREST. INSTALL PER DETAIL A13/L410
- (2) NEW EXELOO 'JUPITER' 2-STALL RESTROOM FACILITY. REFER TO SHEET L405-L406
- NEW CANTILEVER FABRIC SHADE STRUCTURE FOR BLEACHERS BY NATIONAL RECREATION SYSTEMS. CONTACT NATE YOUNKER AT (858)344-0445. REFER TO SHEET L413
- DECOMPOSED GRANITE PAVING (ADA COMPLIANT MATERIAL). INSTALL PER DETAIL E9/L407
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- NEW SYNTHETIC SPORTS TURF FIELD (FIELD #6 & #8) AND STRIPING, ETC. REFER TO SHEET L414-L419
- NEW SODDED TURF SPORTS FIELD (FIELD #7). REFER TO SHEET L703
- NEW 4' HIGH CHAIN LINK FENCE. INSTALL PER DETAIL A5/L408
- NEW PICNIC AREA TENSION FABRIC TYPE SHADE STRUCTURE BY SUPERIOR RECREATIONAL PRODUCTS. CONTACT NATE YOUNKER AT (858)344-0445. REFER TO SHEET L412
- (2) NEW ALUMINUM BLEACHER: 5-ROW X 27' MODEL #0527ADA_VP BY NATIONAL RECREATION SYSTEMS. CONTACT NATE YOUNKER AT (858)344-0445. REFER TO DETAIL H9/L410
- 13' RINO GATE. INSTALL PER DETAIL E5/L408
- 30'X60' BALL STOP NET & POST SYSTEM. INSTALL PER DETAIL A9/L408 & A5/L408
- 40'X80' BALL STOP NET & POST SYSTEM. INSTALL PER DETAIL H5/L411
- (3) ACCESSIBLE PARKING SIGNS. INSTALL PER DETAILS H5/L408 AND H13/L408
- (3) TOW SIGN. INSTALL PER DETAIL H5/L408 AND H13/L408
- NEW 8' HIGH TUBULAR STEEL FENCE. INSTALL PER DETAIL D1/L411
- NEW 4' HIGH X 10' WIDE DOUBLE LEAF CHAIN LINK GATE. INSTALL PER DETAIL A1/L408
- NEW 8' HIGH X 5' WIDE GATE. INSTALL PER DETAIL A1/L409
- DETECTABLE WARNING SURFACE. INSTALL PER DETAIL H5/L408
- NEW GOOSENECK HIGH SCHOOL FOOTBALL GOAL MODEL #LA-FB1452-HS-FCW BY L.A. STEELCRAFT. INCLUDE LA-8304-48 ANTI-SPIN GROUND SLEEVES AND LA-PP-645 POST PADS. CONTACT NATE YOUNKER AT (858)344-0445. ALL REQUIRED PERMITS AND CLEARANCES TO BE OBTAINED BY THE CONTRACTOR, INCLUDING STRUCTURAL OR FOOTING DESIGN CALCULATIONS. INSTALL PER MFR'S INSTRUCTIONS
- PROVIDE AND INSTALL DRINKING FOUNTAIN PER DETAIL E1/L607
- GRANITE BOULDER. INSTALL PER DETAIL A5/L410
- (2) NEW ALUMINUM BENCH: 'PB' PERMANENT BENCH W/ BACK, 21'-0" LONG BY NATIONAL RECREATION SYSTEMS. CONTACT NATE YOUNKER AT (858)344-0445. REFER TO DETAIL A1/L410
- NEW 12'X12' CONCRETE CATCH BASIN. INSTALL PER DETAIL F1/L401. SEE SHEET L304 FOR TOP OF GRATE & INVERT ELEVATION
- NEW CONCRETE PAD FOR NEW ELECTRICAL PANELS AND ENCLOSURE. SEE SHEET L406 & DETAIL H1/E206
- EXISTING SEWER CLEANOUT. ADJUST TO FINISH GRADE WHERE NECESSARY.
- AC PAVING WALKWAY PER. INSTALL PER DETAIL A9/L410

KEYNOTES LEGEND

- # CONSTRUCT
- # EXISTING-PROTECT IN PLACE
- # REMOVE AND RECONSTRUCT

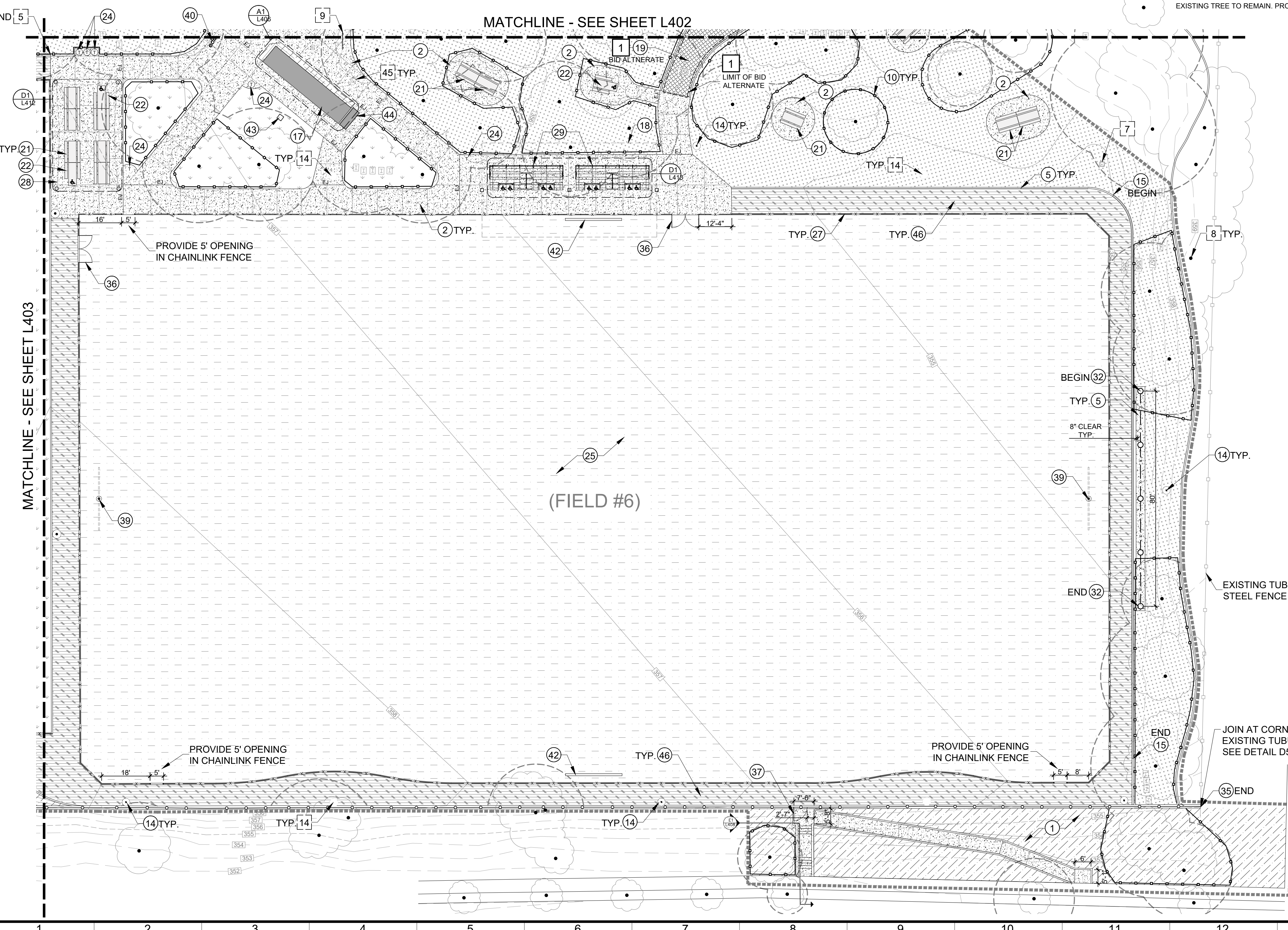
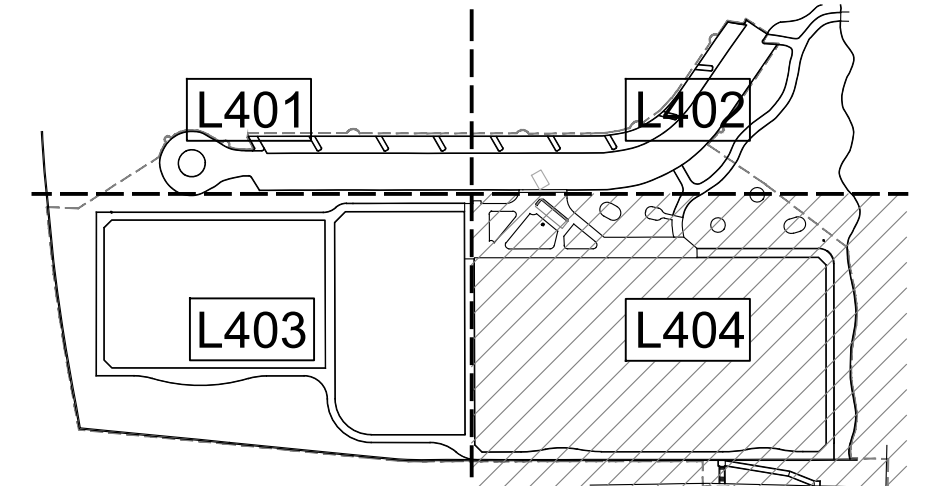


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ENGINEERING
CITY OF LOS ANGELES

BUREAU OF ENGINEERING

CLIENT: DEPARTMENT OF RECREATION & PARKS
GENERAL MANAGER: [Name]
SHEET TITLE: CONSTRUCTION PLAN, SHEET 4 OF 4
PROJECT: RIO DE LOS ANGELES STATE PARK FIELDS MAINTENANCE IMPROVEMENTS PROJECT
ADDRESS: 1900 WEST SAN FERNANDO ROAD, LOS ANGELES, CA, 90039

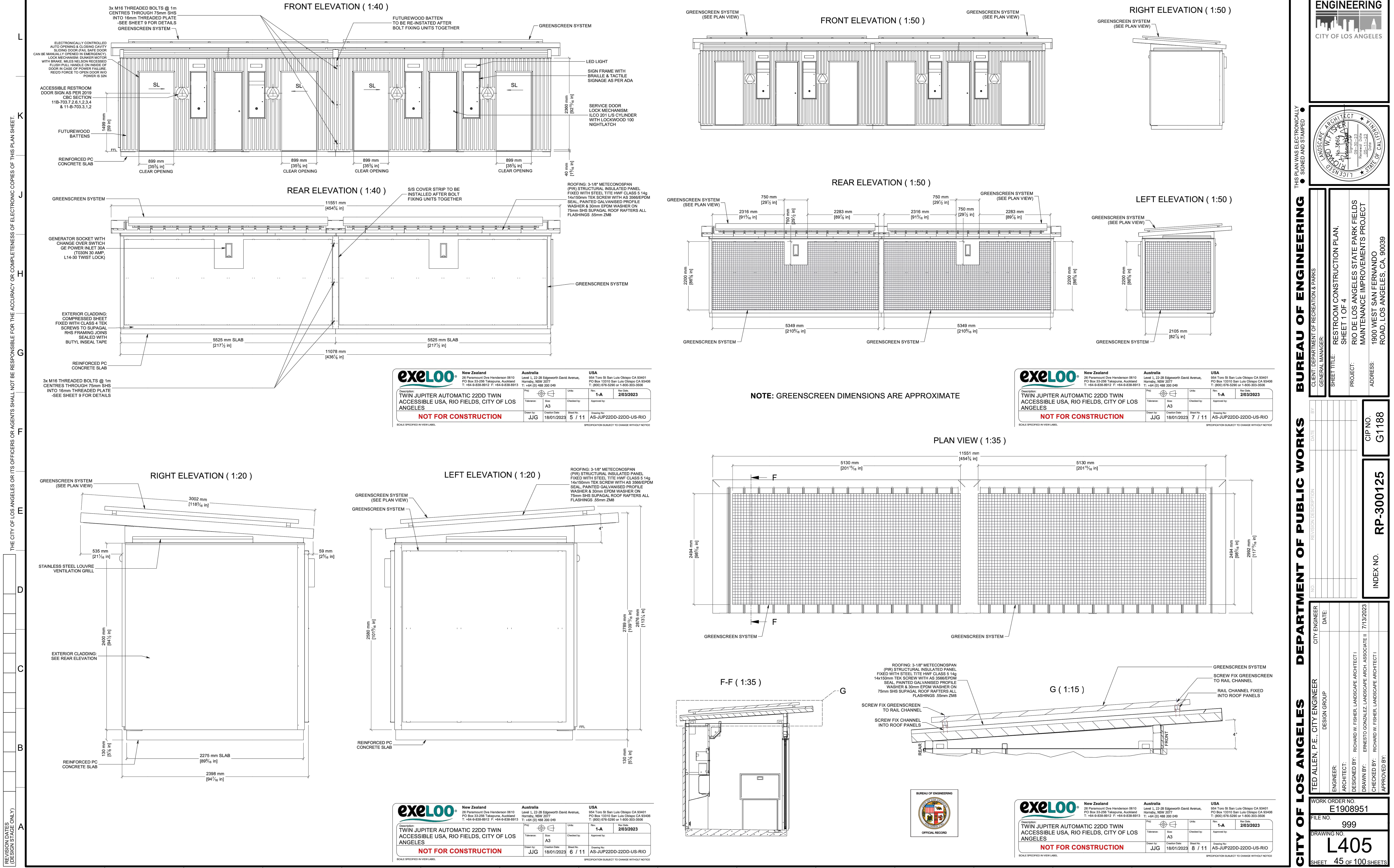
INDEX NO. **RP-300125**
CIP NO. **G1188**

DATE: [Date]
BY: [Name]

CITY ENGINEER: [Name]
DESIGN GROUP: [Name]

ENGINEER: [Name]
ARCHITECT: RICHARD W. FISHER, LANDSCAPE ARCHITECT
DRAWN BY: ERNESTO GONZALEZ, LANDSCAPE ARCH. ASSOCIATE II | 7/13/2023
CHECKED BY: RICHARD W. FISHER, LANDSCAPE ARCHITECT
APPROVED BY: [Name]

WORK ORDER NO. **E1908951**
FILE NO. **999**
DRAWING NO. **L404**
SHEET **44** OF 100 SHEETS



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ENGINEERING
CITY OF LOS ANGELES

LANDSCAPE ARCHITECT
RICHARD W. FISHER ARCHITECT
1900 WEST SAN FERNANDO ROAD, LOS ANGELES, CA 90039

BUREAU OF ENGINEERING
CLIENT: DEPARTMENT OF RECREATION & PARKS
GENERAL MANAGER:
SHEET TITLE: RESTROOM CONSTRUCTION PLAN, SHEET 1 OF 4
PROJECT: RIO DE LOS ANGELES STATE PARK FIELDS MAINTENANCE IMPROVEMENTS PROJECT
ADDRESS: 1900 WEST SAN FERNANDO ROAD, LOS ANGELES, CA, 90039

INDEX NO. **RP-300125**
CIP NO. **G1188**

CITY OF LOS ANGELES DEPARTMENT OF PUBLIC WORKS
CITY ENGINEER: TED ALLEN, P.E., CITY ENGINEER
DESIGN GROUP:
ENGINEER:
ARCHITECT: RICHARD W. FISHER, LANDSCAPE ARCHITECT
DESIGNED BY: ERNESTO GONZALEZ, LANDSCAPE ARCHITECT
DRAWN BY: RICHARD W. FISHER, LANDSCAPE ARCHITECT
CHECKED BY: RICHARD W. FISHER, LANDSCAPE ARCHITECT
APPROVED BY:
DATE: 7/13/2023

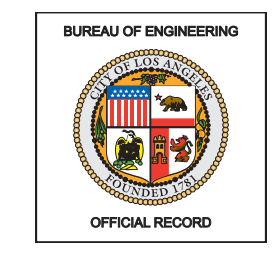
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FILE NO. **999**
DRAWING NO. **L405**
SHEET **45** OF 100 SHEETS

exelOO New Zealand 26 Paramount Dve Henderson 0610 PO Box 33-256 Talapuna, Auckland T: +64-9-838-9912 F: +64-9-838-9913
Australia Level 1, 22-28 Edgeworth David Avenue, Hornsby, NSW 2077 T: +64 (0) 488 200 049
USA 954 Toro St San Luis Obispo CA 93401 PO Box 13310 San Luis Obispo CA 93406 T: (800) 876-2290 or 1-800-303-3068
Description: TWIN JUPITER AUTOMATIC 22DD TWIN ACCESSIBLE USA, RIO FIELDS, CITY OF LOS ANGELES
Title: 1-A
Rev. Date: 2/03/2023
Scale: A3
Checked by: Approved by:
Drawn by: JYG Creation Date: 18/01/2023 Sheet No: 6 / 11 Drawing No: AS-JUP22DD-22DD-US-RIO
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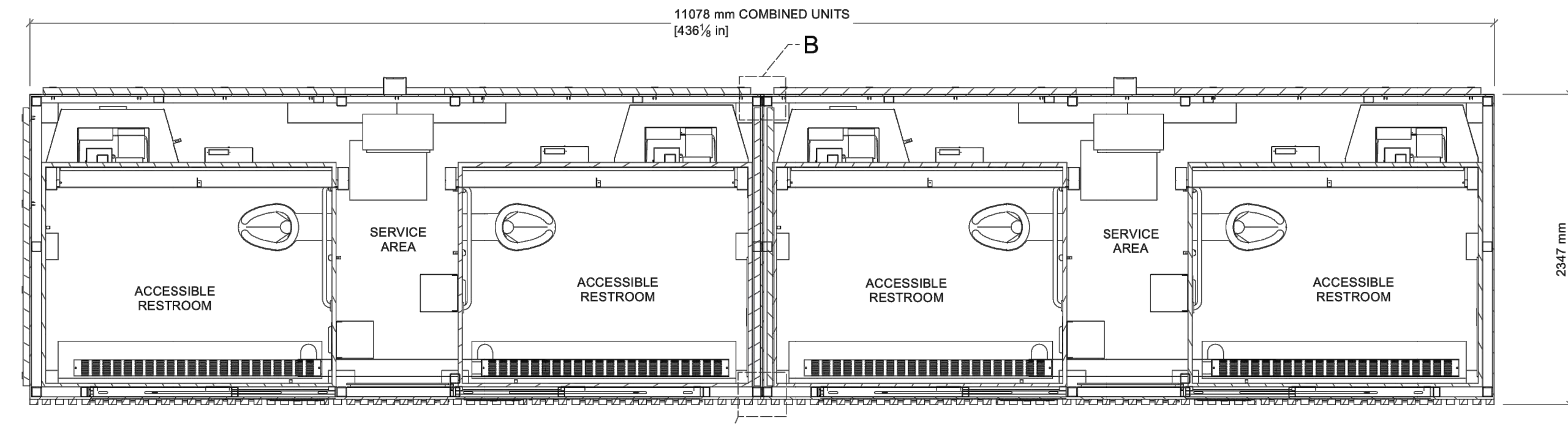
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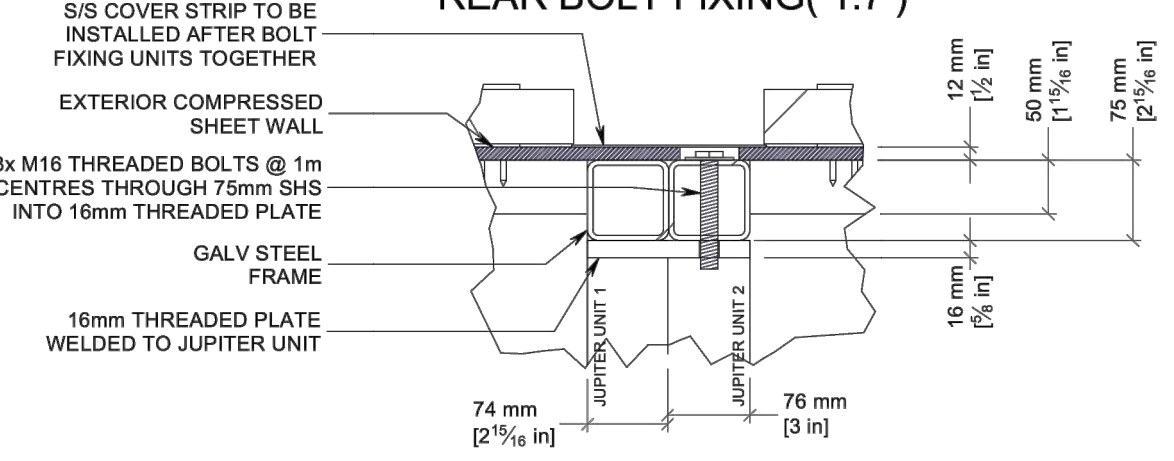
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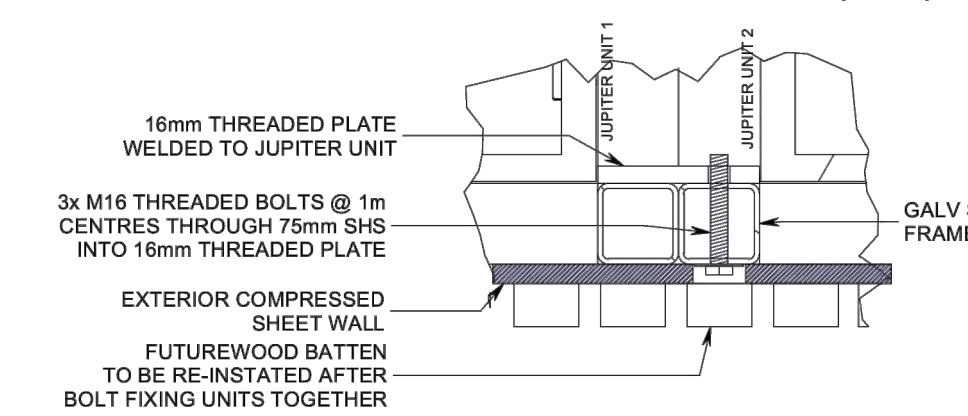
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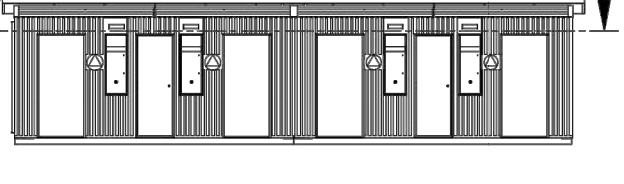
DETAIL B
REAR BOLT FIXING (1:7)



DETAIL C
FRONT BOLT FIXING (1:7)

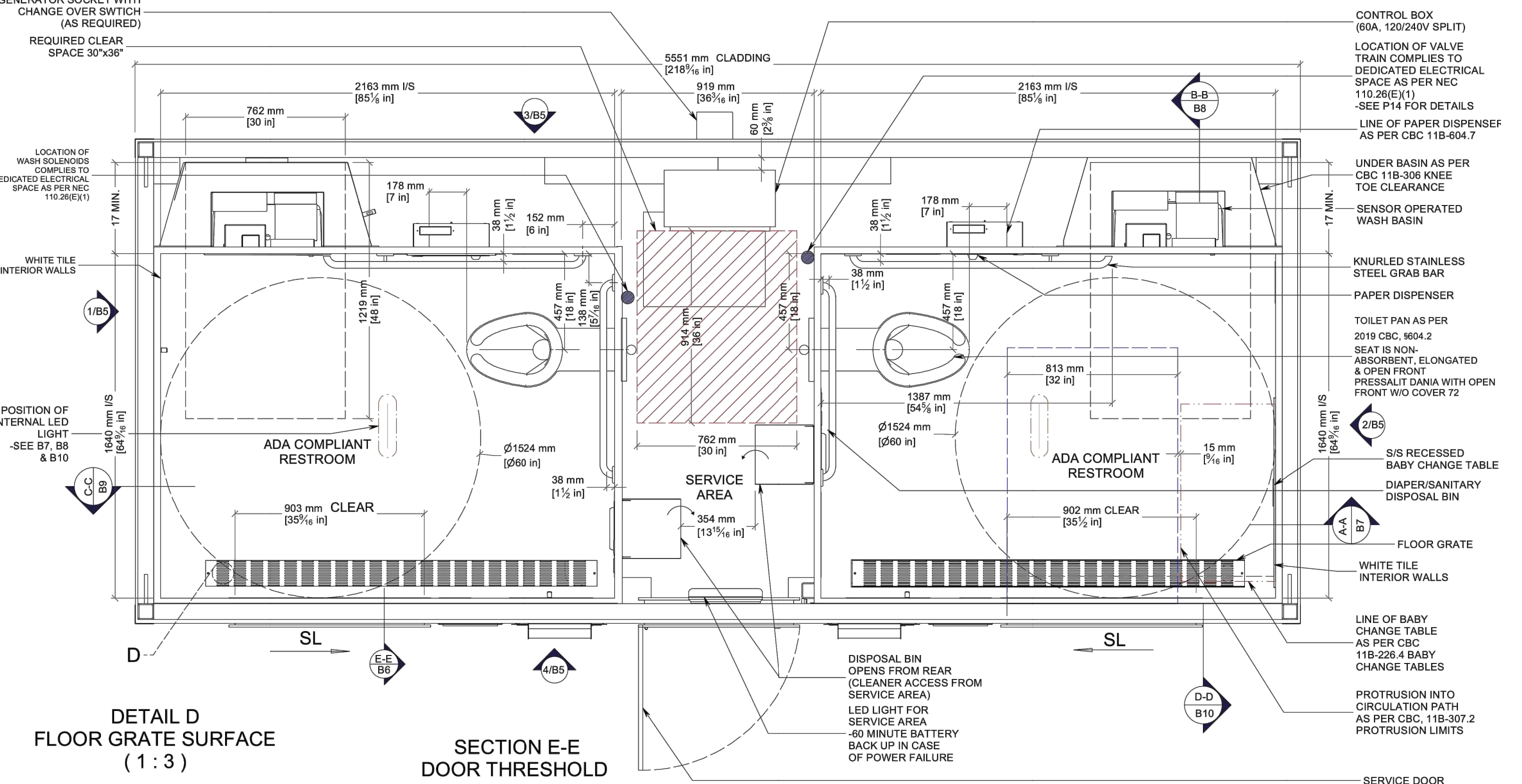


FRONT ELEVATION (1:150)

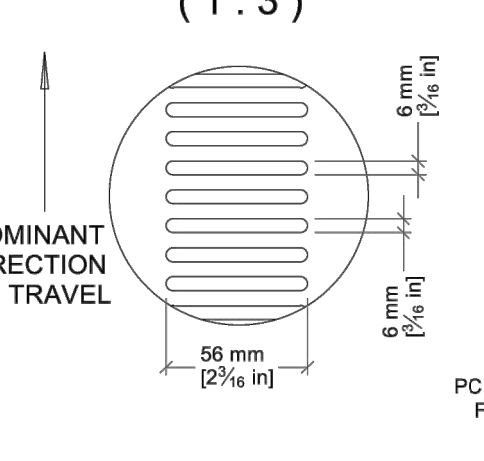


exelOO New Zealand Australia USA
Description: JUPITER TWIN ACCESSIBLE USA
Scale: NOT FOR CONSTRUCTION
Date: 20/03/2023

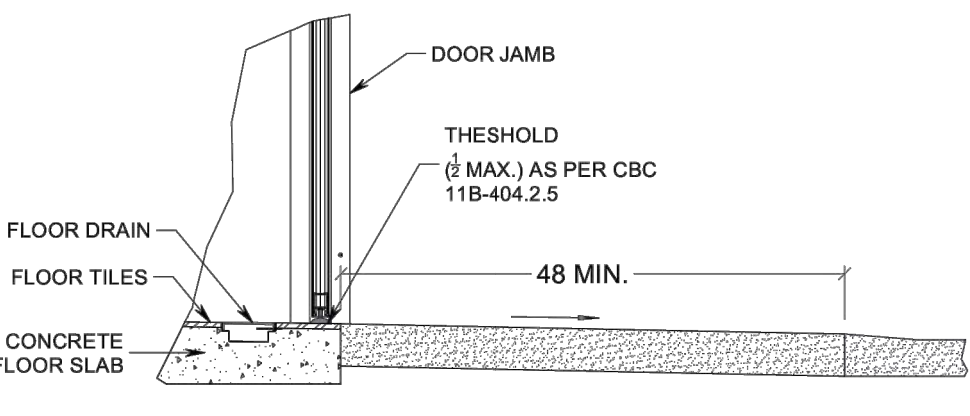
STANDARD JUP22DD FLOOR PLAN



DETAIL D
FLOOR GRATE SURFACE (1:3)

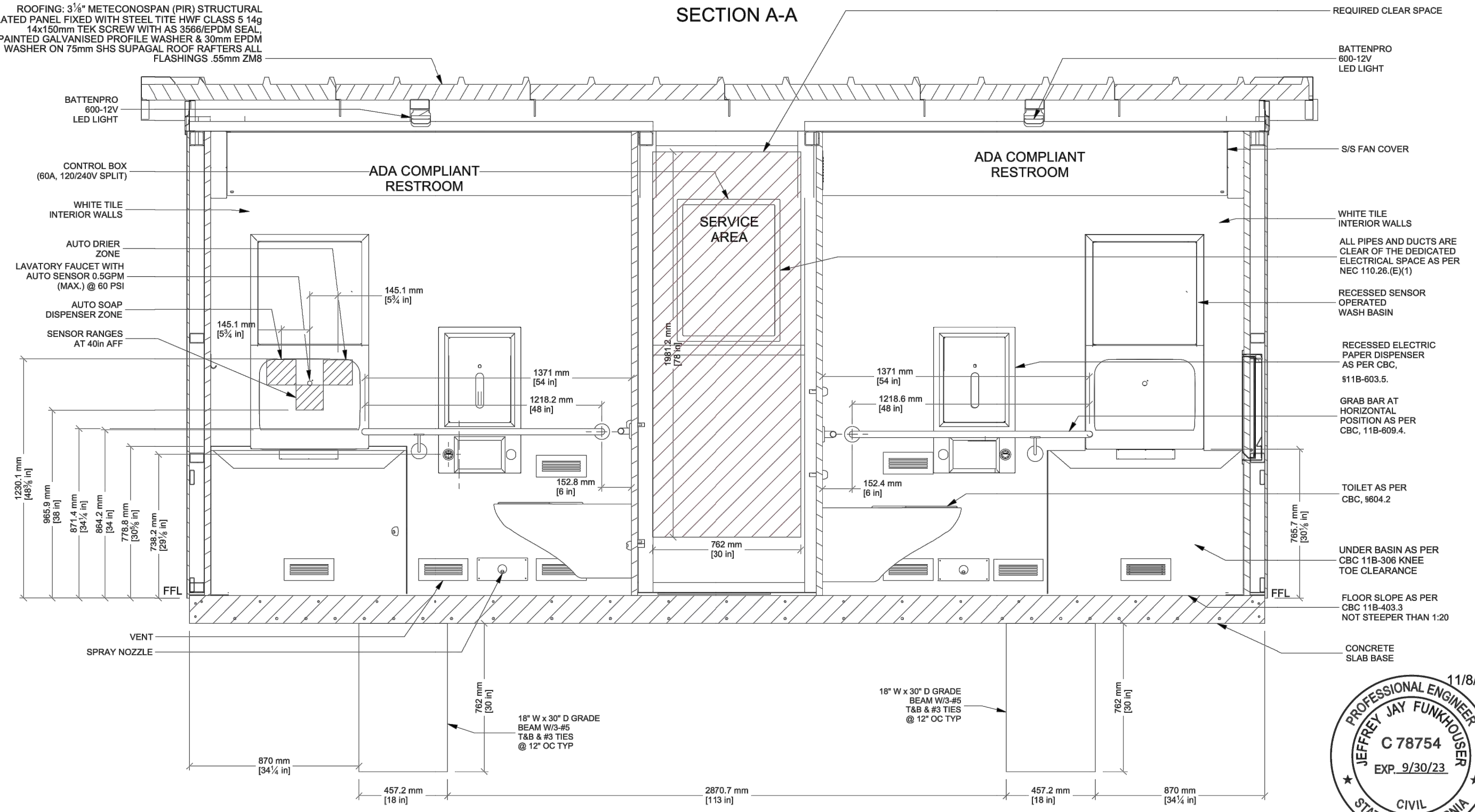


SECTION E-E
DOOR THRESHOLD

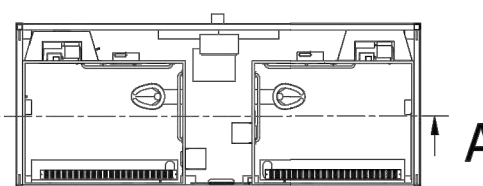


exelOO New Zealand Australia USA
Description: JUPITER TWIN ACCESSIBLE USA
Scale: NOT FOR CONSTRUCTION
Date: 24/08/2022

SECTION A-A



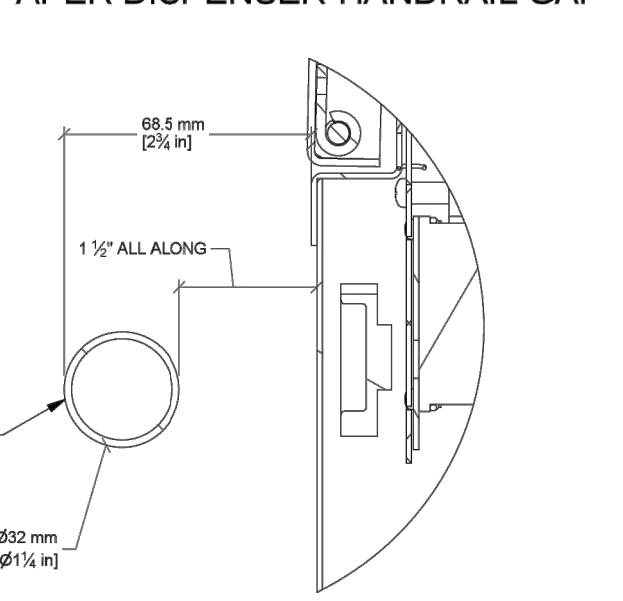
TOP VIEW



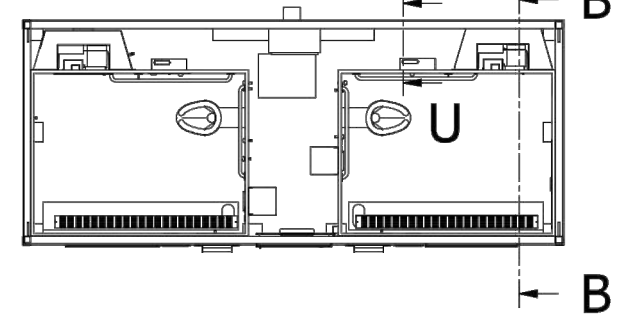
exelOO New Zealand Australia USA
Description: JUPITER TWIN ACCESSIBLE USA
Scale: NOT FOR CONSTRUCTION
Date: 24/08/2022



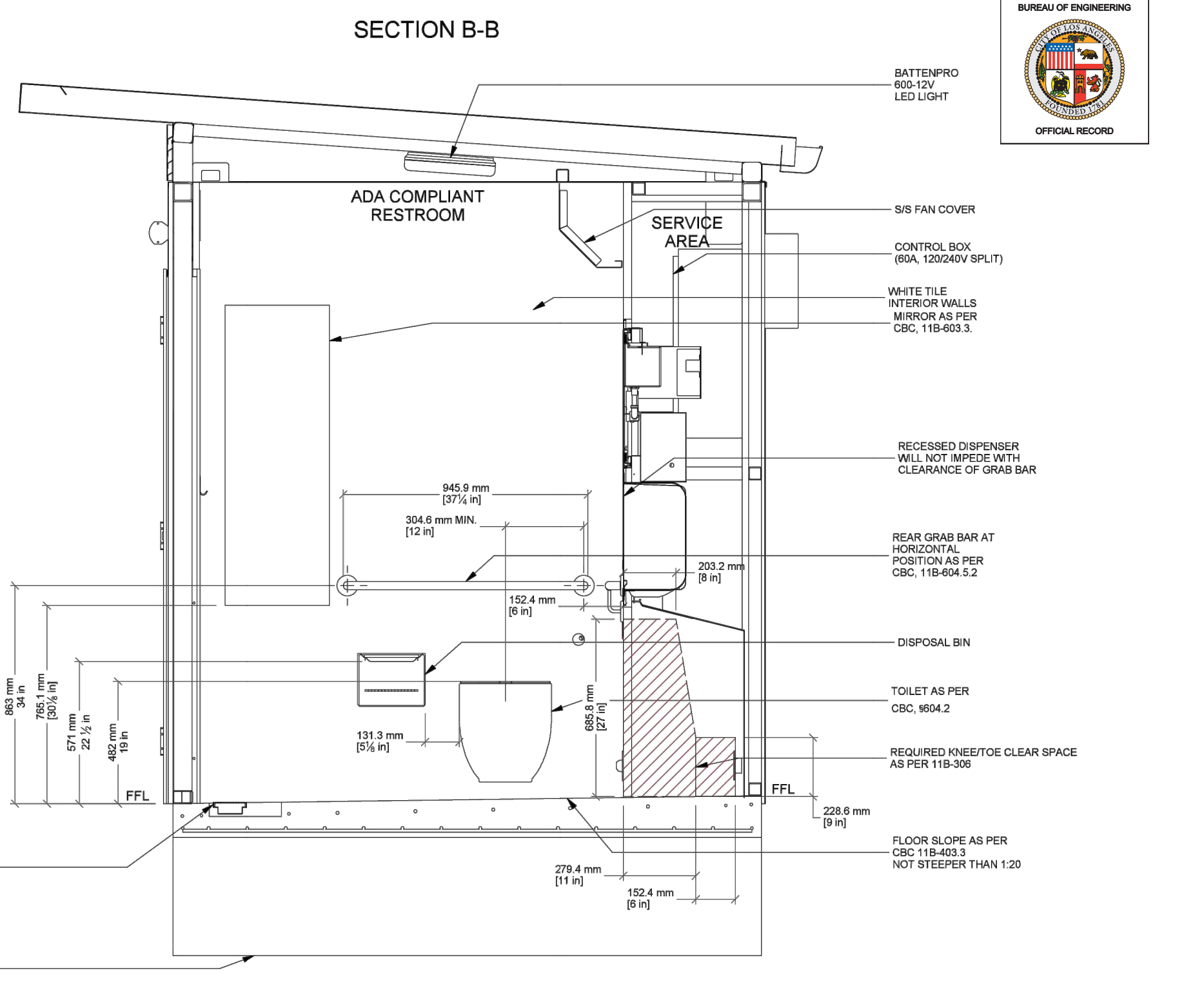
SECTION DETAIL U
PAPER DISPENSER-HANDRAIL GAP



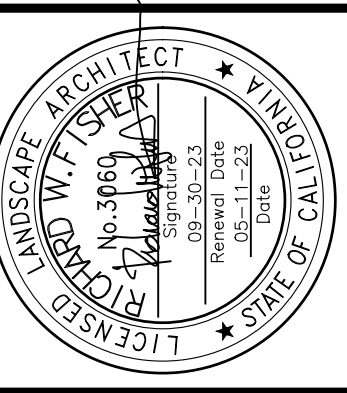
TOP VIEW



SECTION B-B



exelOO New Zealand Australia USA
Description: JUPITER TWIN ACCESSIBLE USA
Scale: NOT FOR CONSTRUCTION
Date: 16/06/2022



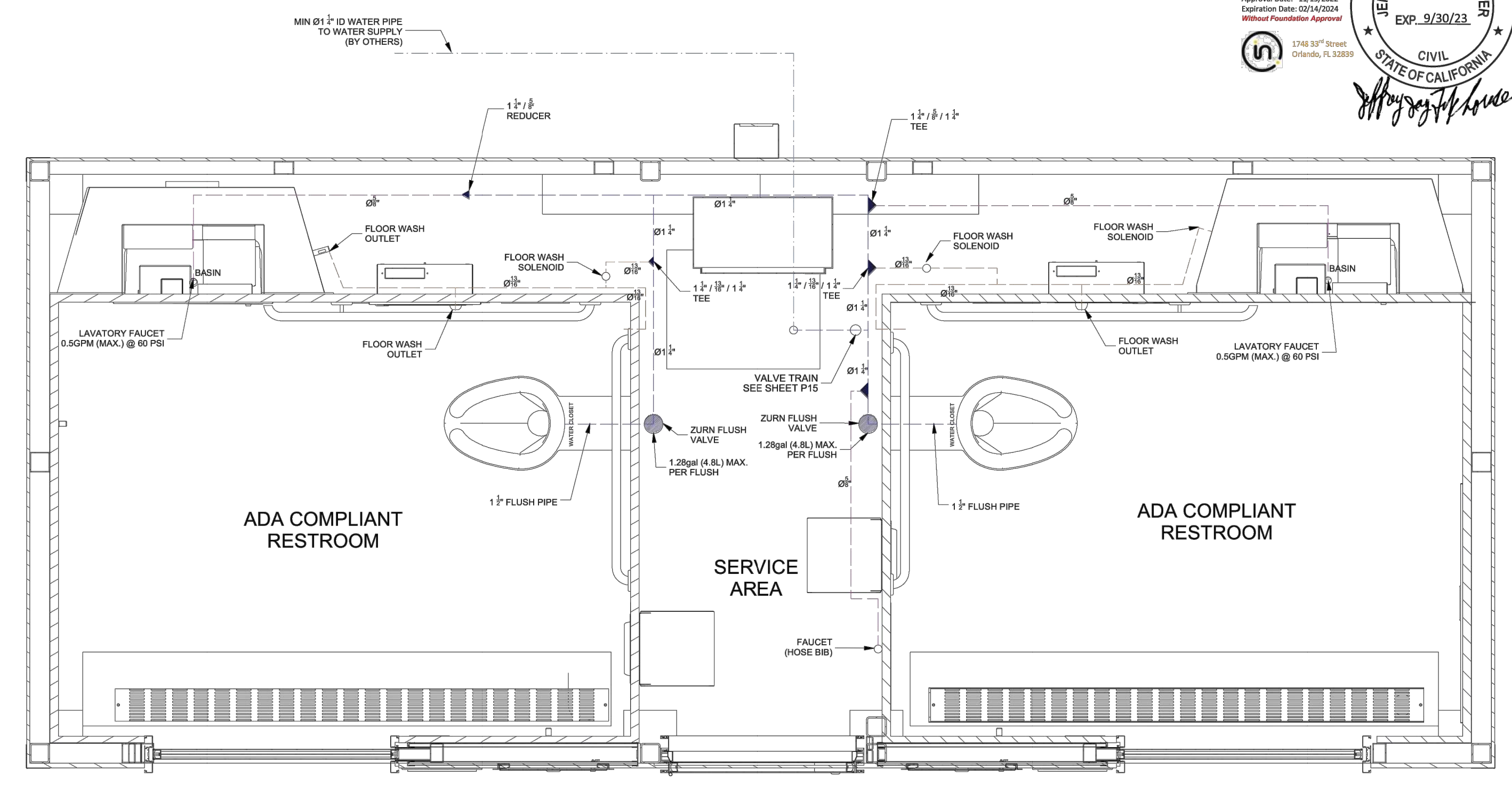
CLIENT: DEPARTMENT OF RECREATION & PARKS
GENERAL MANAGER:
SHEET TITLE: RESTROOM CONSTRUCTION PLAN, SHEET 2 OF 4
PROJECT: RIO DE LOS ANGELES STATE PARK FIELDS MAINTENANCE IMPROVEMENTS PROJECT
ADDRESS: 1900 WEST SAN FERNANDO ROAD, LOS ANGELES, CA, 90039

INDEX NO. RP-300125
CIP NO. G1188

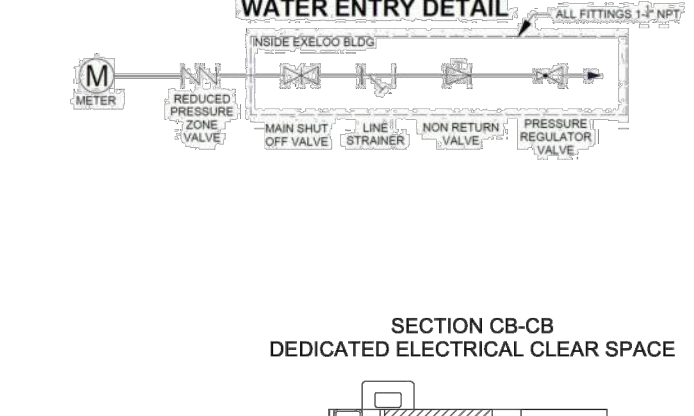
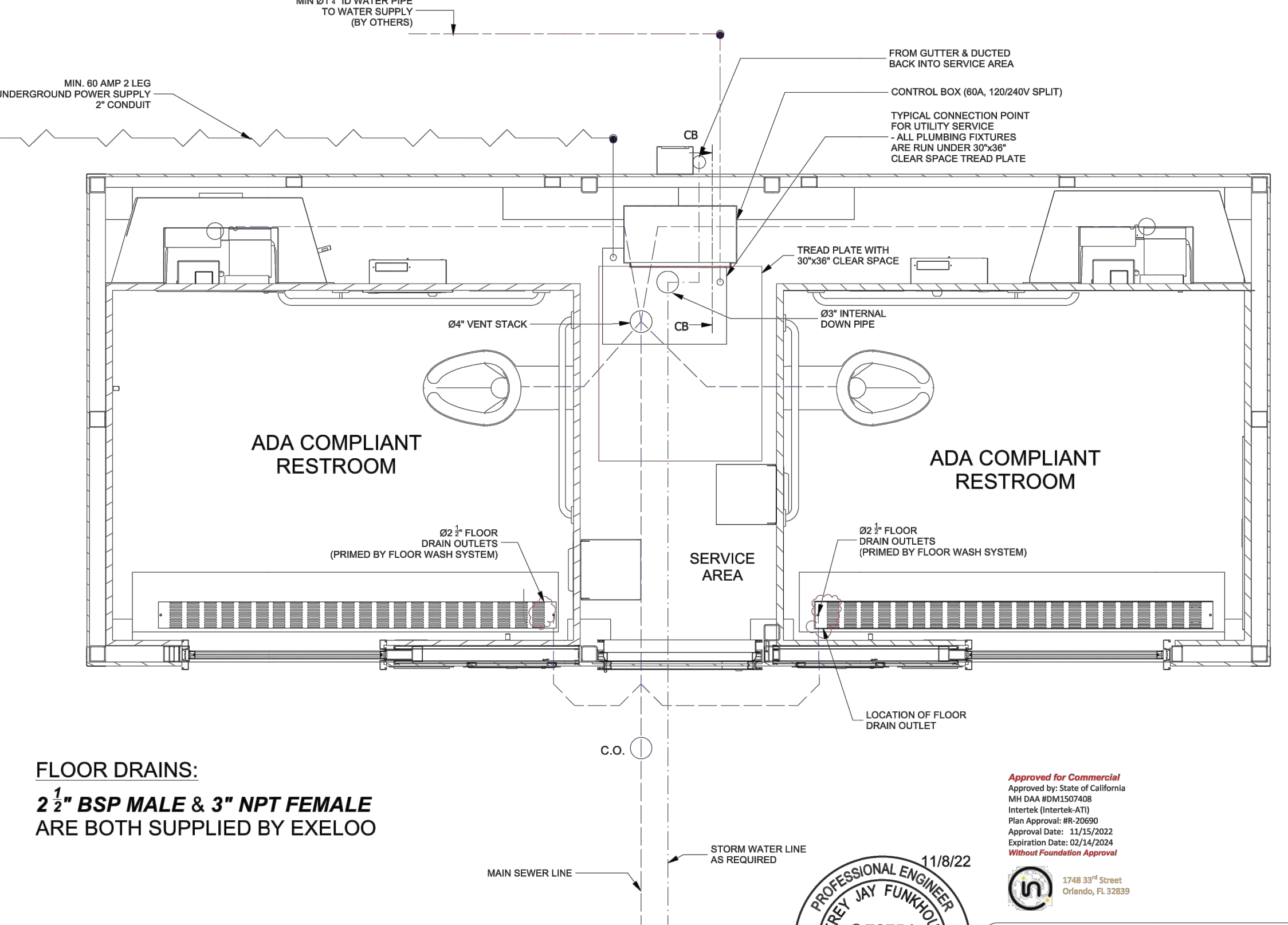
DATE: 7/13/2023
CITY ENGINEER: TED ALLEN, P.E., CITY ENGINEER
DESIGN GROUP:
ENGINEER: RICHARD W. FISHER, LANDSCAPE ARCHITECT
DESIGNED BY: RICHARD W. FISHER, LANDSCAPE ARCHITECT
DRAWN BY: ERNESTO GONZALEZ, LANDSCAPE ARCH. ASSOCIATE II
CHECKED BY: RICHARD W. FISHER, LANDSCAPE ARCHITECT
APPROVED BY:

WORK ORDER NO. E1908951
FILE NO. 999
DRAWING NO. L405.1
SHEET 46 of 100 SHEETS

WATER SUPPLY SCHEMATIC PLAN



SCHEMATIC SERVICES PLAN



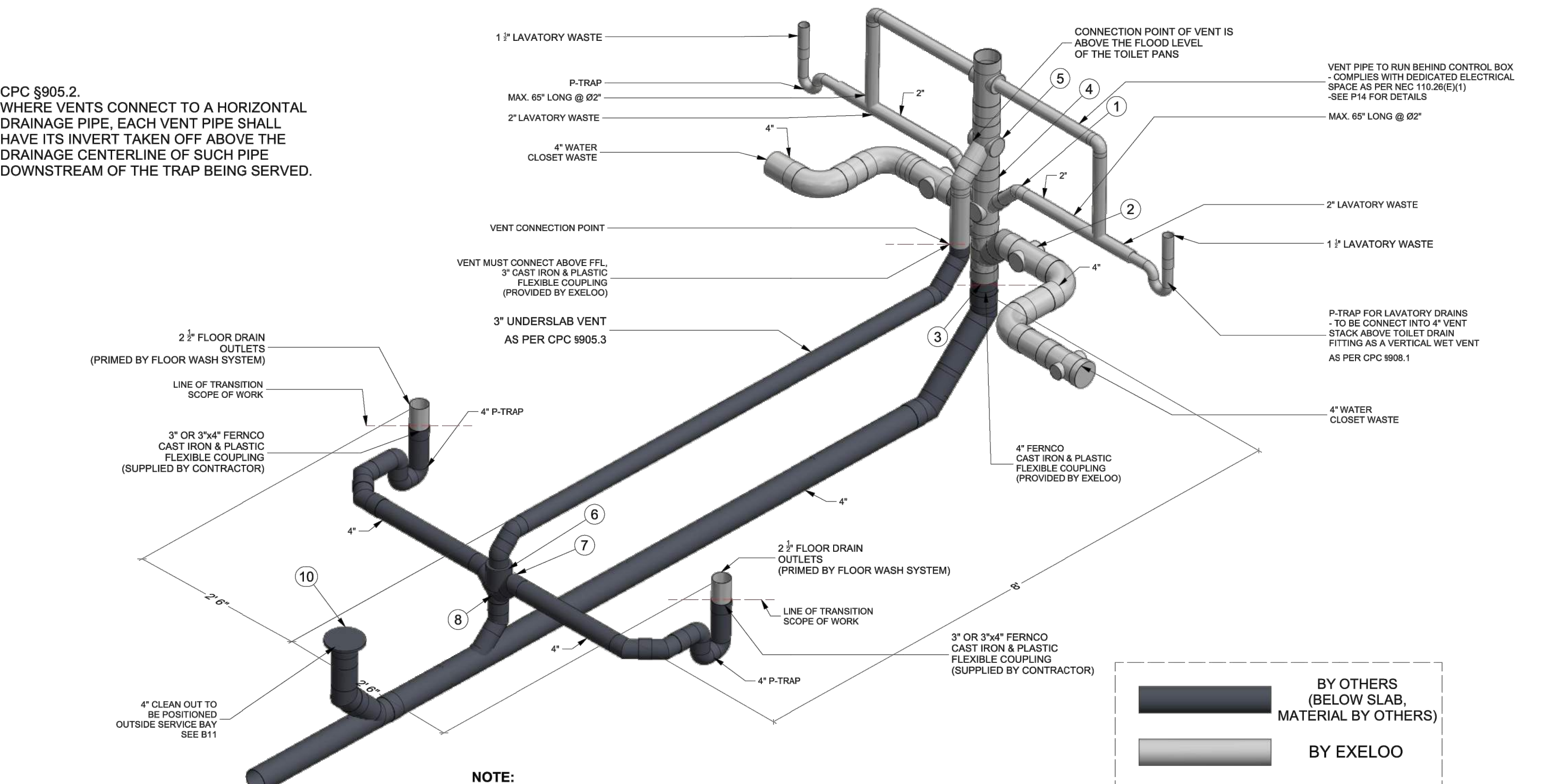
FLOOR DRAINS: 2 1/2" BSP MALE & 3" NPT FEMALE ARE BOTH SUPPLIED BY EXELOO

NOTE: 1. THIS DIAGRAM IS A VISUAL REPRESENTATION AND INDICATIVE ONLY - NOT TO SCALE 2. CIVIL CONTRACTOR/ENGINEER IS RESPONSIBLE FOR PROVIDING CONNECTIONS TO THE UNIT. Exeloo Corp. does not guarantee that information shown on these drawings indicate any more than the presence or absence of such services and will not accept liability for any damage or losses caused to any party...



Project information block including Exeloo logo, project name 'JUPITER TWIN ACCESSIBLE USA', and contact details for New Zealand, Australia, and USA offices.

ISOMETRIC - WASTEWATER JUPITER DD US SINGLE UNDERSLAB FLOOR VENT

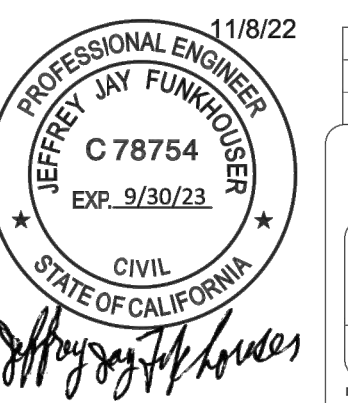


CPC §905.2 WHERE VENTS CONNECT TO A HORIZONTAL DRAINAGE PIPE, EACH VENT PIPE SHALL HAVE ITS INVERT TAKEN OFF ABOVE THE DRAINAGE CENTERLINE OF SUCH PIPE DOWNSTREAM OF THE TRAP BEING SERVED.

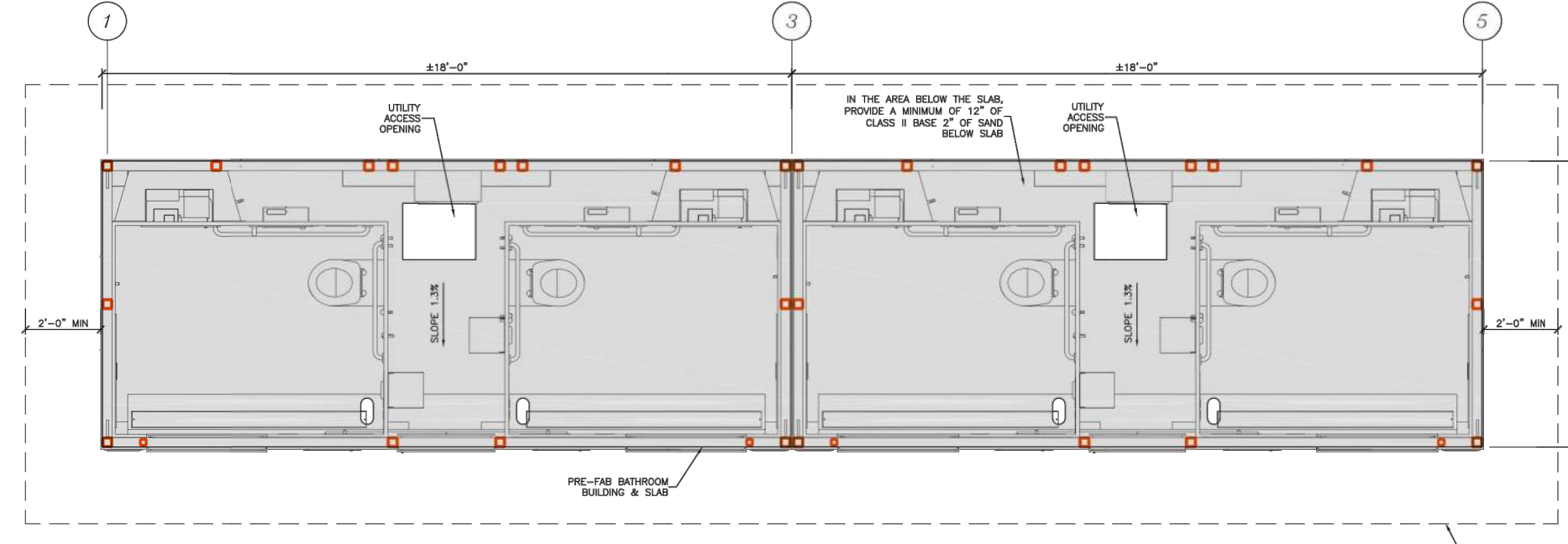
NOTE: 1. THIS DIAGRAM IS A VISUAL REPRESENTATION AND INDICATIVE ONLY - NOT TO SCALE

Parts List table with columns for ITEM, EXELOO DESCRIPTION, and MATERIAL. Lists items like street 45, double Y, and long sweep.

FLOOR DRAINS: 2 1/2" BSP MALE & 3" NPT FEMALE ARE BOTH SUPPLIED BY EXELOO



Revision table and project information block including Exeloo logo, project name 'JUPITER PLATINUM TWIN ACCESSIBLE US - WASTEWATER SYSTEM', and contact details.

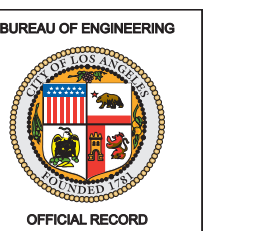


FOUNDATION PLAN

SCALE: 1/2" = 1'-0" DO NOT SCALE FROM DRAWING REFER TO NOTES, SCHEDULES AND DETAILS.

- 1. SOIL INFORMATION: A. Soil report per City of Los Angeles, dated September 20, 2022, W.O. #E190580 and 022-012-22-048. B. Maximum water table depth of 10' B.S. C. Maximum bearing capacity of 4.2 kips/sq ft. D. No special treatment required. E. All reinforcing steel to be ASTM A-615, Grade 60. F. Clear cover to all rebar shall be 2".

Table with columns for SOIL, DESIGN, and FOUNDATION. Includes design parameters like concrete strength and reinforcement details.



JUPITER DOUBLE UNIT 1945-1596 NORTH SAN FERNANDO ROAD LOS ANGELES, CALIFORNIA

Vertical sidebar containing project information: CLIENT (BUREAU OF ENGINEERING), GENERAL MANAGER, SHEET TITLE (RESTROOM CONSTRUCTION PLAN, SHEET 3 OF 4), PROJECT (MANTENANCE IMPROVEMENTS PROJECT), ADDRESS (1900 WEST SAN FERNANDO ROAD, LOS ANGELES, CA, 90039), INDEX NO. (RP-300125), CIP NO. (G1188), and drawing details (WORK ORDER NO. E1908951, FILE NO. 999, DRAWING NO. L405.2, SHEET 47 OF 100 SHEETS).

REVISION DATES (DESIGN STAGE ONLY)

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

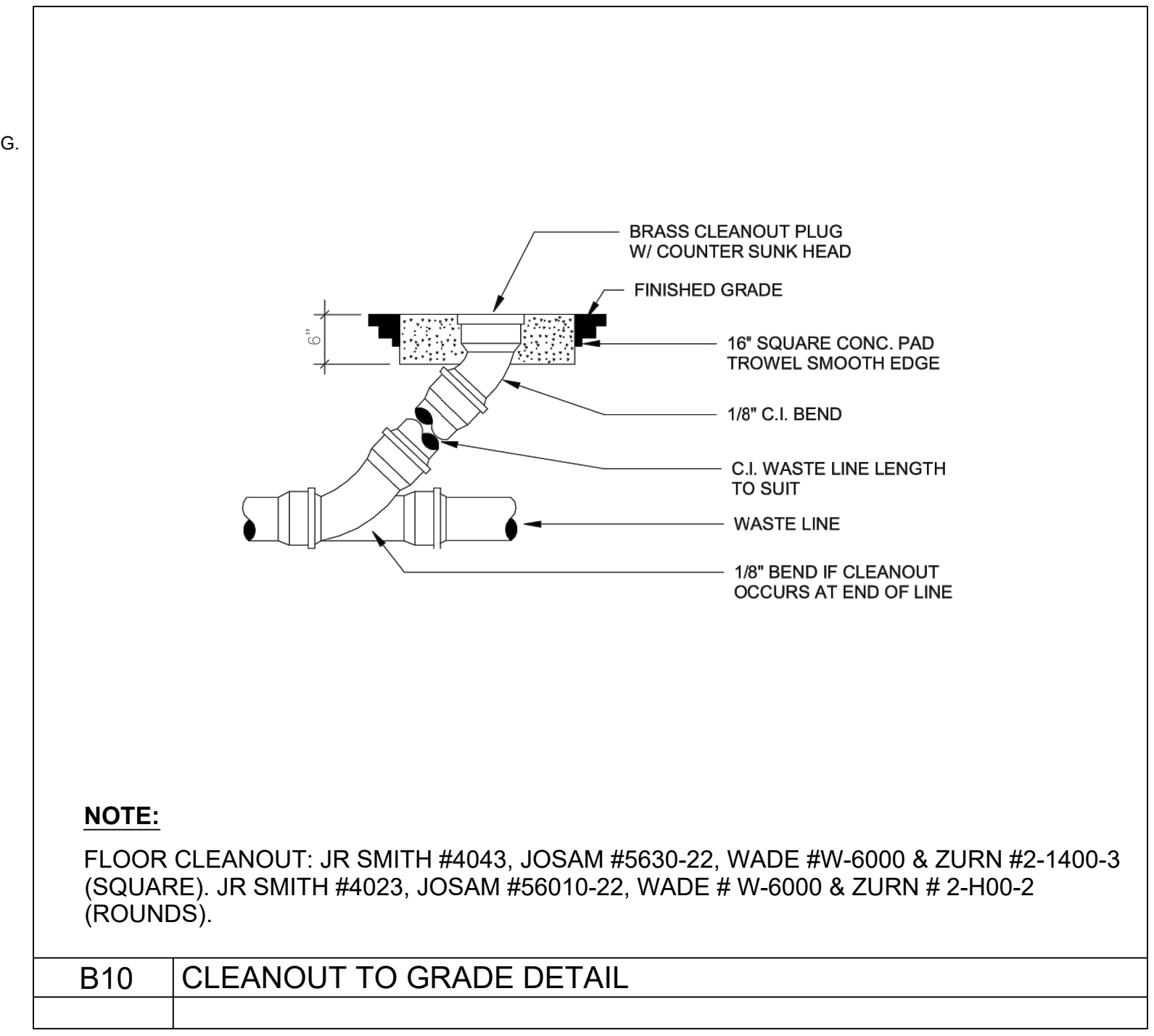
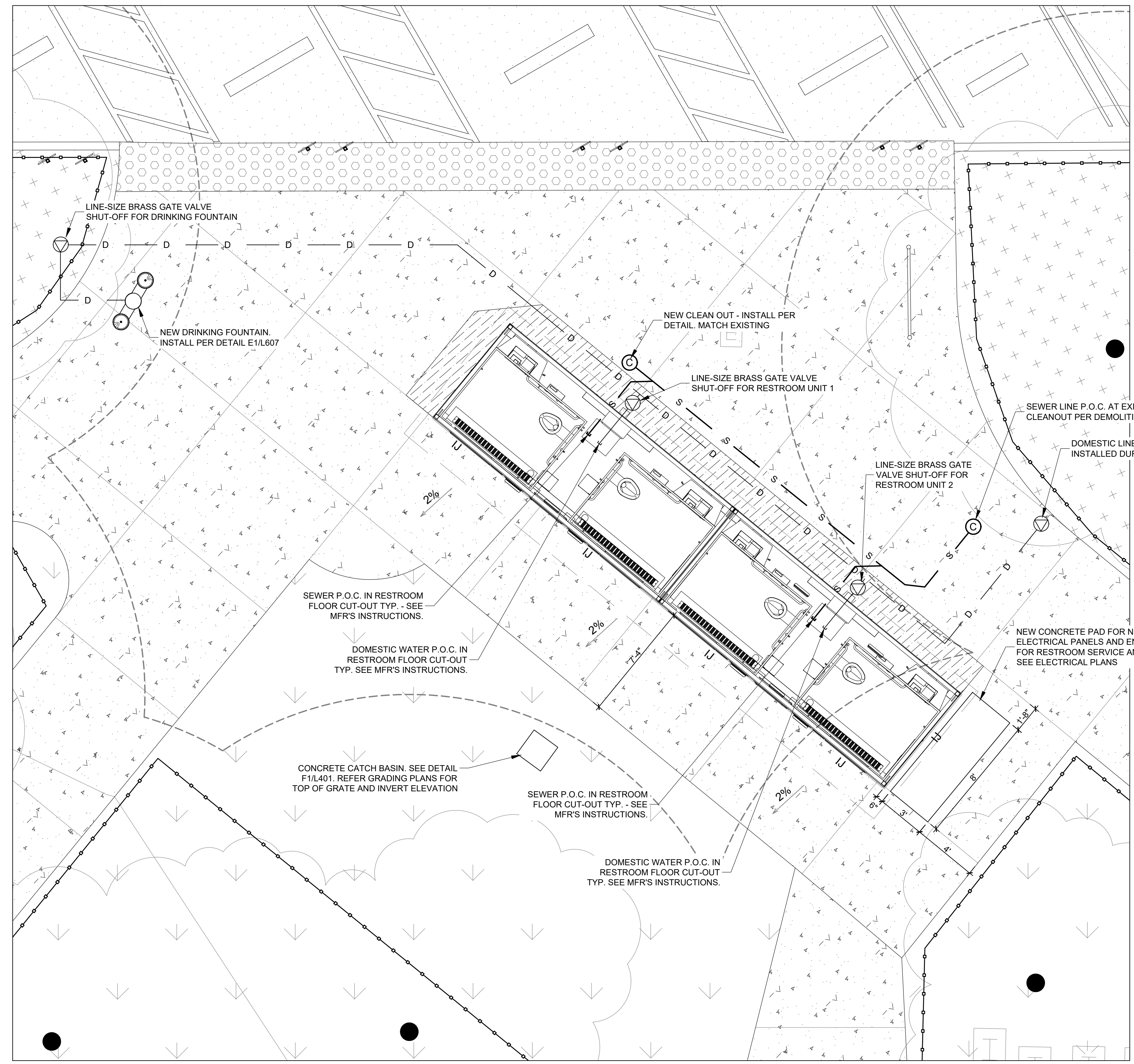
RESTROOM INSTALLATION NOTES:

1. ALL UTILITY CONNECTIONS ARE UNDER SEPARATE PERMIT BY THE CONTRACTOR.
2. CONTRACTOR SHALL OBTAIN A SEWER PERMIT DURING CONSTRUCTION FOR CONNECTION OF SEWER LATERAL TO THE MAIN. SUBMIT FOR SEWER PERMIT AT: <https://eng.lacity.org/permits>
3. INSTALL RESTROOM PER MANUFACTURER'S INSTRUCTIONS. SEE MFR'S INSTALLATION SHEETS

CONSTRUCTION LEGEND

- CONCRETE PAVING. COLOR: NATURAL GRAY. MED. BROOM FINISH. SEE DETAIL E1/L407
- DECOMPOSED GRANITE PAVING. SEE DETAIL E9/L407
- AC PAVING WALKWAY. SEE DETAIL A9/L410
- AC PAVING PARKING LOT. SEE DETAIL H13/L407
- INTERLOCKING CONCRETE PAVING STONES. SEE DETAIL A9/L407
- DETECTABLE WARNING SURFACE. INSTALL PER DETAIL H5/L408
- NEW SODDED TURF. SEE L701-L74
- NEW SYNTHETIC TURF SPORTS FIELD AND STRIPING, ETC. SEE L414-L419
- NEW MULCHED PLANTING AREA. SEE L701-L704
- LANDSCAPE AREA TO REMAIN. PROTECT IN PLACE.

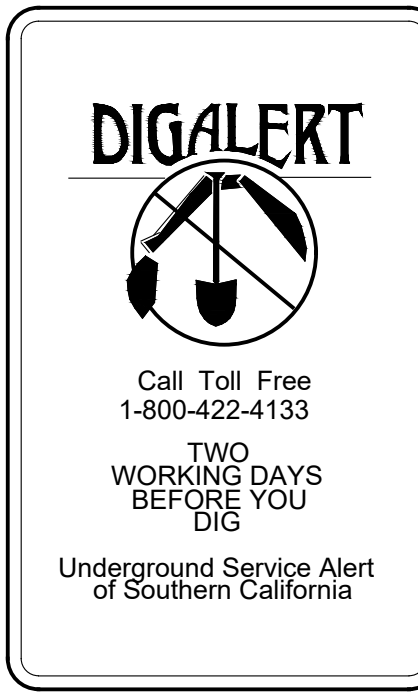
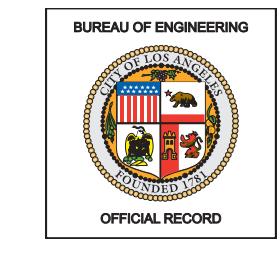
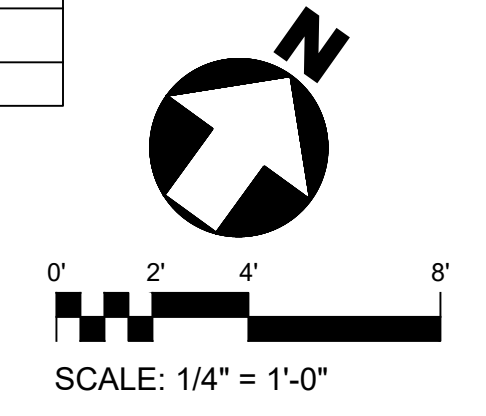
- LIMIT OF WORK (OFFSET FOR CLARITY).
- EX. CHAINLINK FENCING TO REMAIN. PROTECT IN PLACE.
- 4' HIGH CHAINLINK FENCING. SEE DETAIL A5/L408
- 8' HIGH TUBULAR STEEL FENCING. SEE DETAIL H1/L409
- TREE PROTECTION ZONE FENCING. SEE L017 TREE PROTECTION NOTES AND DETAIL A13/L017
- NEW TYPE "L" COPPER DOMESTIC WATER LINE - SIZE TO MATCH EXISTING SERVICE LINE (MIN. 1-1/4")
- NEW 4" SCH. 40 ABS SANITARY SEWER LINE. SEE SPECIFICATIONS - INSTALL PER CODE.
- EXISTING LIGHT POLE. PROTECT IN PLACE.
- NEW LIGHT POLE. SEE ELECTRICAL PLANS
- NEW 30FT. LIGHT POLE. SEE ELECTRICAL PLANS
- TREE PROTECTION ZONE. SEE TREE PROTECTION NOTES ON SHEET L017
- EXISTING TREE TO REMAIN. PROTECT IN PLACE.



NOTE:
 FLOOR CLEANOUT: JR SMITH #4043, JOSAM #5630-22, WADE #W-6000 & ZURN #2-1400-3 (SQUARE). JR SMITH #4023, JOSAM #56010-22, WADE # W-6000 & ZURN # 2-H00-2 (ROUNDS).

B10 CLEANOUT TO GRADE DETAIL

A1 NEW RESTROOM FACILITY
 SCALE: 1/4"=1'-0"



ENGINEERING
CITY OF LOS ANGELES

BUREAU OF ENGINEERING

CLIENT: DEPARTMENT OF RECREATION & PARKS

GENERAL MANAGER:

SHEET TITLE: RESTROOM CONSTRUCTION PLAN, SHEET 4 OF 4

PROJECT: RIO DE LOS ANGELES STATE PARK FIELDS MAINTENANCE IMPROVEMENTS PROJECT

ADDRESS: 1900 WEST SAN FERNANDO ROAD, LOS ANGELES, CA, 90039

NO.	REVISION DESCRIPTION	DATE	BY

INDEX NO. **RP-300125**

CIP NO. **G1188**

BUREAU OF ENGINEERING

OFFICIAL RECORD

ENGINEER:	CITY ENGINEER	DATE:	
DESIGNED BY:	DESIGN GROUP:		
ARCHITECT:			
DRAWN BY:			
CHECKED BY:			
APPROVED BY:			

WORK ORDER NO. **E1908951**

FILE NO. **999**

DRAWING NO. **L406**

SHEET **48** OF 100 SHEETS

REVISION DATES (DESIGN STAGE ONLY)
A
B
C
D
E
F
G
H
J
K
L

PROJECT NAME TO BE PROVIDED BY PROJECT MANAGER PRIOR TO SIGN FABRICATION.

YOUR PROPOSITION K FUNDS AT WORK

PROJECT NAME
XXXXXXX

REC & PARKS

KAREN BASS, Mayor
(NAME), Councilmember
(NUMBER) District

CITY OF LOS ANGELES
DEPARTMENT OF
RECREATION AND PARKS
JIMMY KIM,
General Manager

Recreation and Park
Board of Commissioners
Sylvia Patsouras, President

Board of Public Works Commissioners
Aura Garcia, President

TED ALLEN, City Engineer
John L. Reamer, Jr., Inspector of Public Works

DESIGNER:
BUREAU OF ENGINEERING
ARCHITECTURAL DIVISION

CONTRACTOR:
(Name)

DEPARTMENT LOGO 8"x16" (SEE DETAIL AT RIGHT). OBTAIN COMPUTER GRAPHIC FILE FROM PROJECT MANAGER.

CITY SEAL, 8" DIA. OBTAIN COMPUTER GRAPHIC FILE FROM PROJECT MANAGER.

CONFIRM ALL NAMES TO BE LISTED ON SIGN WITH PROJECT MANAGER BEFORE FABRICATION

1-1/2"
2-1/2"
2-1/4"
1-5/8"
2"
1-5/8"
1-7/8"
1-5/8"
1-7/8"
1-5/8"
1-5/8"
1-5/8"

1/2" THICK LINE, TYP. SPACE LINES 1/2" APART.
1/4" THICK LINE, TYP.

SIGN TEXT LAYOUT
SCALE: 3/4" = 1'-0"

SIGN CONSTRUCTION VIEWED FROM REAR
SCALE: 3/8" = 1'-0"

(8) 1/2" DIA. CARRIAGE BOLTS PER NOTES.

2" x 4" D.F., NAILED TO BACK OF SIGN AND TOE NAILED TO POSTS

6" x 6" D.F. POSTS

FINISH GRADE

COMPACT SOIL AROUND POST

4"-0" TYP.

4"-0" TYP.

4"-0" TYP.

8'-0" TYP.

EQ. APPROXIMATELY EQUALLY (DO NOT PLACE BOLT HEADS ON LETTERING)

16'-0" TYP.

6'-0" TYP.

2'-0" TYP.

NOTES:

- SIGN SHALL BE CONSTRUCTED OF 3/4" ACX PLYWOOD. LETTERING SHALL BE PLACED ON FRONT SIDE. PAINT ALL EXPOSED WOOD SURFACES WITH ONE COAT PRIMER AND TWO COATS ENAMEL. PER DUNN-EDWARDS PRINTED SPECIFICATIONS, OR APPROVED EQUAL. COLORS: SIGN, TRIM, POSTS, AND DIAGONAL BRACING-SNOWCAP (WHITE) 09-36P, ALL LETTERING (EXCLUDING CITY SEAL) AND TREE SILHOUETTE DESIGN SHALL BE BLACK.
- SECURE SIGN TO 6" x 6" POSTS WITH 1/2" DIAMETER CARRIAGE BOLTS OF SUFFICIENT LENGTH TO SECURE SIGN TO POSTS. FOUR BOLTS PER POST. PROVIDE GALVANIZED WASHERS UNDER NUTS. DO NOT PLACE BOLTS THROUGH LETTERING.
- ALTERNATE SIGN MOUNTING: UPON APPROVAL FROM PROJECT MANAGER, CONTRACTOR MAY OPT TO MOUNT SIGN ON A MOVEABLE BASE TO ACCOMMODATE CONSTRUCTION ACTIVITIES.
- IF BOX TO LEFT IS CHECKED, ENTIRE FACE OF SIGN SHALL BE COVERED WITH 4" X 8" X 3/16" SHEET OF CLEAR PLEXIGLAS TO PROTECT FROM GRAFFITI. SECURE TO FACE OF SIGN WITH 1" X 2" EDGE TRIM. SECURE EDGE TRIM WITH NUMBER 12 X 1-1/4" STAINLESS STEEL FLAT HEAD WOOD SCREWS. SPACE AT 18" ON CENTER, AROUND PERIMETER OF SIGN.
- SEE NOTICE TO CONTRACTORS FOR ADDITIONAL INFORMATION AND REQUIREMENTS. SIGN SHALL BE INSTALLED WITHIN TWO WEEKS OF THE START OF CONSTRUCTION.

DETAIL OF DEPARTMENT LOGO
NOT TO SCALE

OBTAIN FULL SCALE COLOR GRAPHIC FILE OF DEPARTMENT LOGO FROM PROJECT MANAGER

H13 ASPHALT CONCRETE PAVEMENT - VEHICULAR AREAS
RP DETAIL L3150

NEW A.C. PAVING, 3 1/2" THICK AFTER ROLLING AND COMPACTION. ASPHALTIC CONCRETE SHALL BE CLASS 2, GRADE C2-PG64-10-75.

NEW 6" THICK C.M.B. COURSE COMPACTED TO 95% RELATIVE COMPACTION. SEE NOTE 2.

COMPACTED SUBGRADE - REFER TO SECTIONS 6.1.2, 6.1.5, AND 6.1.6 OF THE GEOTECHNICAL REPORT

NOTES:

- FOR NEW PAVING, USE THE FOLLOWING SEALER APPLICATION: APPLY 2 COATS OF "COOL SEAL" COATING (SR1-30) @ 20 GAL/1,000 S.F. PER MFR'S INSTRUCTIONS
- EXISTING C.M.B. MAY BE REUSED IF IT IS SUITABLE BASED ON LABORATORY TEST RESULTS FOR GRADATION. IT MAY NOT BE LEFT IN PLACE. IT SHALL BE REMOVED AND REPLACED FOLLOWING SUBGRADE COMPACTION

H1 PARK CONSTRUCTION SIGN
L6030

E1 CONC. PAVING W/CM BASE, NO THICK. EDGE
RP REVISION 7-2-13 RWF
RP DETAIL L3020

5-1/2" THICK NATURAL GRAY CONCRETE WITH MEDIUM BROOM FINISH, TYP.

TOOLED SCORE LINE WITH 1/2" RADIUS, TYP. SEE NOTE 1.

CONFIGURATION OF CONCRETE PAVING VARIES; REFER TO CONSTRUCTION PLAN

1/2" RADIUS, TYP. AT EDGES

FOR TURF OR OTHER PLANTING AREAS F.G. TO BE 1" BELOW FINISH SURFACE.

1/2" TYP.

6"

3"

1"

#4 BARS AT 24" O.C. BOTH WAYS. PLACE BARS ON CHAIRS.

#4 BARS AT ALL EDGES, CONT. TYP.

4" C.M.B. COMPACTED TO 95% RELATIVE COMPACTION, TYP.

SCARIFY THE EXISTING SOIL AT LEAST 8 INCHES, MOISTURE CONDITIONED BETWEEN 0 AND 3 PERCENT ABOVE OPTIMUM, AND COMPACT TO A MINIMUM 90% RELATIVE COMPACTION

NOTES:

- PROVIDE TOOLED SCORE LINES, 1" DEEP, AT LOCATIONS SHOWN ON CONSTRUCTION PLAN. SAW-CUT SCORE LINES MAY BE APPROVED AS AN ALTERNATE METHOD AT THE DISCRETION OF THE PROJECT MANAGER.
- EXPANSION JOINTS SHALL BE CONSTRUCTED PER DETAIL AT LOCATIONS SHOWN ON PLAN.
- PROVIDE ISOLATION JOINT PER DETAIL AGAINST PREVIOUSLY CONSTRUCTED FIXED ELEMENTS.
- END OF POUR JOINTS - SEE LANDSCAPE SPECIFICATIONS.

E5 CONCRETE PAVING WITH THICKENED EDGE
RP DETAIL 3010

5-1/2" THICK NATURAL GRAY CONCRETE WITH MEDIUM BROOM FINISH

SCORE LINE PER NOTE 1

CONFIGURATION OF CONCRETE PAVING VARIES; REFER TO CONSTRUCTION PLAN

1/2" RADIUS, TYP. AT EDGES

TURF OR CONC. EDGE CONDITION VARIES:
-IF CONCRETE, FLUSH
-IF TURF, 1" BELOW FINISH SURFACE

1/2" TYP.

6"

3"

1"

#4 BARS AT 24" INCHES ON CENTER BOTH WAYS. PLACE BARS ON CHAIRS

#4 BARS AT ALL EDGES, CONTINUOUS, TYP.

TURN DOWN BARS AT THICKENED EDGE

4" C.M.B. COMPACTED TO 95% RELATIVE COMPACTION, TYP.

COMPACTED SUBGRADE - REFER TO SECTIONS 6.1.2, 6.1.5, AND 6.1.6 OF THE GEOTECHNICAL REPORT

NOTES:

- PROVIDE TOOLED SCORE LINES, 1" DEEP, AT LOCATIONS SHOWN ON CONSTRUCTION PLAN.
- EXPANSION JOINTS SHALL BE CONSTRUCTED PER DETAIL AT LOCATIONS SHOWN ON PLAN.
- PROVIDE ISOLATION JOINT PER DETAIL AGAINST PREVIOUSLY CONSTRUCTED FIXED ELEMENTS.
- END OF POUR JOINTS - SEE LANDSCAPE CONSTRUCTION NOTES.

E9 DECOMPOSED GRANITE PATH WITH CONCRETE HEADER
RP DETAIL L3820

3" THICK COMPACTED DECOMPOSED GRANITE INSTALLED WITH "ORGANIC LOCK" STABILIZER BY GAIL MATERIALS, (951) 667-6106. COLOR: "GOLD", (ADA COMPLIANT MATERIAL)

EXISTING CONCRETE MOW STRIP, TYP.

(VARIES - SEE PLAN)

CROSS-SLOPE 2% MAX. SLOPE W/ NATURAL DRAINAGE.

FINISH GRADE

SCARIFY THE EXISTING SOIL AT LEAST 8 INCHES, MOISTURE CONDITIONED BETWEEN 0 AND 3 PERCENT ABOVE OPTIMUM, AND COMPACT TO A MINIMUM 90% RELATIVE COMPACTION

TYPICAL PATH SECTION

NOTES:

- ALL D.G. PATHS SHALL NOT EXCEED A RUNNING SLOPE GREATER THAN 3%. SEE GRADING PLAN
- DECOMPOSED GRANITE MATERIAL SHALL BE PRE-MIXED WITH STABILIZER (AMOUNT/RATIO PER MANUFACTURER'S RECOMMENDATION) AND PRE-WETTED BY SUPPLIER PRIOR TO PLACEMENT TO ENSURE THOROUGH AND EVEN DISTRIBUTION THROUGHOUT MIXTURE. SEE LANDSCAPE SPECIFICATIONS.

E13 DOWELED EXPANSION JOINT
RP DETAIL L3070

FIRST POUR

SECOND POUR

3/8" FLEXIBLE CLOSED CELL FOAM JOINT MATERIAL, SET 1" BELOW FINISH SURFACE (OR OPTION: USE 3/8" REMOVABLE "ZIP-STRIP")

18" LONG NO. 4 REBAR, SPACED @ 24" MAXIMUM CENTER TO CENTER ACROSS PAVED SURFACE. MAINTAIN CLEARANCE OF 3" MINIMUM FROM ANY OUTSIDE EDGE.

REINFORCED CONCRETE PAVING PER DETAILS

NOTE:

- MAINTAIN LINE AND GRADE AT EXPANSION JOINTS.
- EXPANSION JOINT SHALL BE PLACE AT MAX. SPACING OF EVERY 20' UNLESS OTHERWISE SPECIFIED ON THE CONSTRUCTION PLAN.

A1 CONCRETE MOW STRIP
BOE VERSION Feb/08 - RF, SD
RP DETAIL L3200

SET MOW STRIP FLUSH WITH ADJACENT PAVING WHERE OCCURS. DO NOT RADIUS MOW STRIP CORNER ADJACENT TO PAVING, TYP.

1/2" RADIUS TOP CORNER, TYP.

FINISH GRADE-GROUND COVER OR LAWN, TYP.

8"

6"

1"

#3 REBAR CONTINUOUS, CENTERED

COMPACTED SUBGRADE TO 95% TYP. SEE SOILS REPORT FOR ADDITIONAL INFORMATION

NOTES:

- SCORE MOW STRIP AT 10' O.C. MAX. AND AT ALL CHANGES IN DIRECTION SIMILAR TO CONCRETE PAVING DETAIL.
- WHEN MOW STRIP IS INSTALLED ADJACENT TO EXISTING A.C. PAVING, THE EXISTING A.C. PAVING SHALL BE SAW-CUT 12" FROM THE EDGE OF THE MOW STRIP AND NEW ASPHALT CONCRETE PLACED AFTER MOW STRIP IS IN PLACE.

A5 CONCRETE MOW STRIP AT CHAINLINK FENCE
N.T.S.

CENTER LINE OF CHAIN LINK FENCE "LINE POST"

8" WIDE IF ADJACENT TO TURF/LAWN, 4" WIDE IF ADJACENT TO SYNTHETIC TURF.

CONSTRUCT 1/2" DEEP SCORE LINE ACROSS MOW STRIP AT EACH FENCE POST

WOOD FLOAT FINISH ON TOP SURFACE

ADJACENT PAVING WHERE OCCURS

4"

1/2" RADIUS AT BOTH TOP CORNERS

FINISH GRADE 1" BELOW MOW STRIP FOR LAWN, 2.5" BELOW FOR SYNTHETIC TURF.

5 1/2"

#4 REBAR CONTINUOUS, CENTERED

COMPACTED SUBGRADE TO A MIN. 90% RELATIVE COMPACTION

CONCRETE POST FOOTING - SEE FENCE DETAILS FOR FOOTING DETAILS, DELETE CROWN AND TOP 5 1/2" INCHES OF FOOTING WHEN USING MOWSTRIP

NOTES:

- PLACE PLASTIC CONTROL JOINTS AT ALL CHANGES IN DIRECTION.
- WHEN MOW STRIP IS INSTALLED ADJACENT TO EXISTING A.C. PAVING, THE EXISTING A.C. PAVING SHALL BE SAW-CUT 12" FROM THE EDGE OF THE MOW STRIP AND NEW ASPHALT CONCRETE PLACED AFTER MOW STRIP IS IN PLACE.

A9 PERMEABLE PAVER INSTALLATION
BOE VERSION Oct/08 - SHD, RWF
RP DETAIL L3650

ADJACENT PAVING OR LANDSCAPE

6" WIDE X 18" DEEP CONCRETE HEADER (ONLY WHERE PAVING STONES ARE NOT ADJACENT TO NEW OR EXISTING CONCRETE "TYPE A" CURB).

2 - #4 REBAR, CONTINUOUS.

SPECIFIED PERMEABLE PAVING STONES PER CONSTRUCTION PLANS OR APPROVED EQUAL

FILL GAPS WITH #89 OR FINER GRADATION CRUSHED STONE. SEE SPECIFICATIONS.

DRAINAGE LAYER BASE: 3/4" AGGREGATE (CLEAN - WITH NO FINE MATERIAL) COMPACT TO 95% SPD.

NON-WOVEN PERMEABLE GEOTEXTILE FABRIC BARRIER ON BOTTOM AND SIDES, TYP.

1.5" - 2" BEDDING COURSE OF #8 AGGREGATE

8" MIN. OR PER GEOTECH REPORT

COMPACTED SUBGRADE - REFER TO SECTIONS 6.1.2, 6.1.5, AND 6.1.6 OF THE GEOTECHNICAL REPORT

NOTES:

- DO NOT USE SAND OR OTHER FINES IN THE INSTALLATION OF THE CONCRETE PAVERS AS BEDDING, FILL, OR BETWEEN JOINTS.
- ANY GAPS AT THE EDGE OF PAVING SHALL BE FILLED WITH PAVERS CUT TO FIT AS NEEDED.
- AFTER PLACEMENT, PAVERS SHALL BE VIBRATED INTO THE LAYING COURSE USING A VIBRATOR CAPABLE OF 3000 - 5000 COMPACTION FORCE WITH SURFACE CLEAN AND JOINTS OPEN.
- AFTER VIBRATION, FILL CELLS WITH AGGREGATE MATERIAL AS SHOWN.

A13 CONCRETE CURB WALL
DETAIL 360 A

CURB WALL SCHEDULE

C	0" TO 6"	6" TO 1'	1' TO 1' 5"	1' 6"
F	6"	1'	1' 6"	2'

(VARIES - NOT TO EXCEED 18")

#4 REBAR 18" O.C. HORIZONTAL

#4 REBAR @ 18" O.C. VERTICAL, TIE TO HORIZ. REBAR

IF THE "C" HEIGHT EXCEEDS 1'-0", PROVIDE MIN. 3/4" DIA. WEEP HOLES @ 32" O.C.

FINISH SURFACE

COMPACTED SUBGRADE OR UNDISTURBED NATURAL GRADE

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

THIS PLAN WAS ELECTRONICALLY SIGNED AND STAMPED

BUREAU OF ENGINEERING

CLIENT: DEPARTMENT OF RECREATION & PARKS

GENERAL MANAGER:

SHEET TITLE: CONSTRUCTION DETAILS, SHEET 1

PROJECT: RIO DE LOS ANGELES STATE PARK FIELDS MAINTENANCE IMPROVEMENTS PROJECT

ADDRESS: 1900 WEST SAN FERNANDO ROAD, LOS ANGELES, CA, 90039

CIP NO. G1188

INDEX NO. RP-300125

CITY ENGINEER: TED ALLEN, P.E., CITY ENGINEER

DATE:

DESIGN GROUP:

ENGINEER:

ARCHITECT: RICHARD W. FISHER, LANDSCAPE ARCHITECT

DESIGNED BY: ERNESTO GONZALEZ, LANDSCAPE ARCH. ASSOCIATE II 7/13/2023

DRAWN BY: RICHARD W. FISHER, LANDSCAPE ARCHITECT

CHECKED BY: RICHARD W. FISHER, LANDSCAPE ARCHITECT

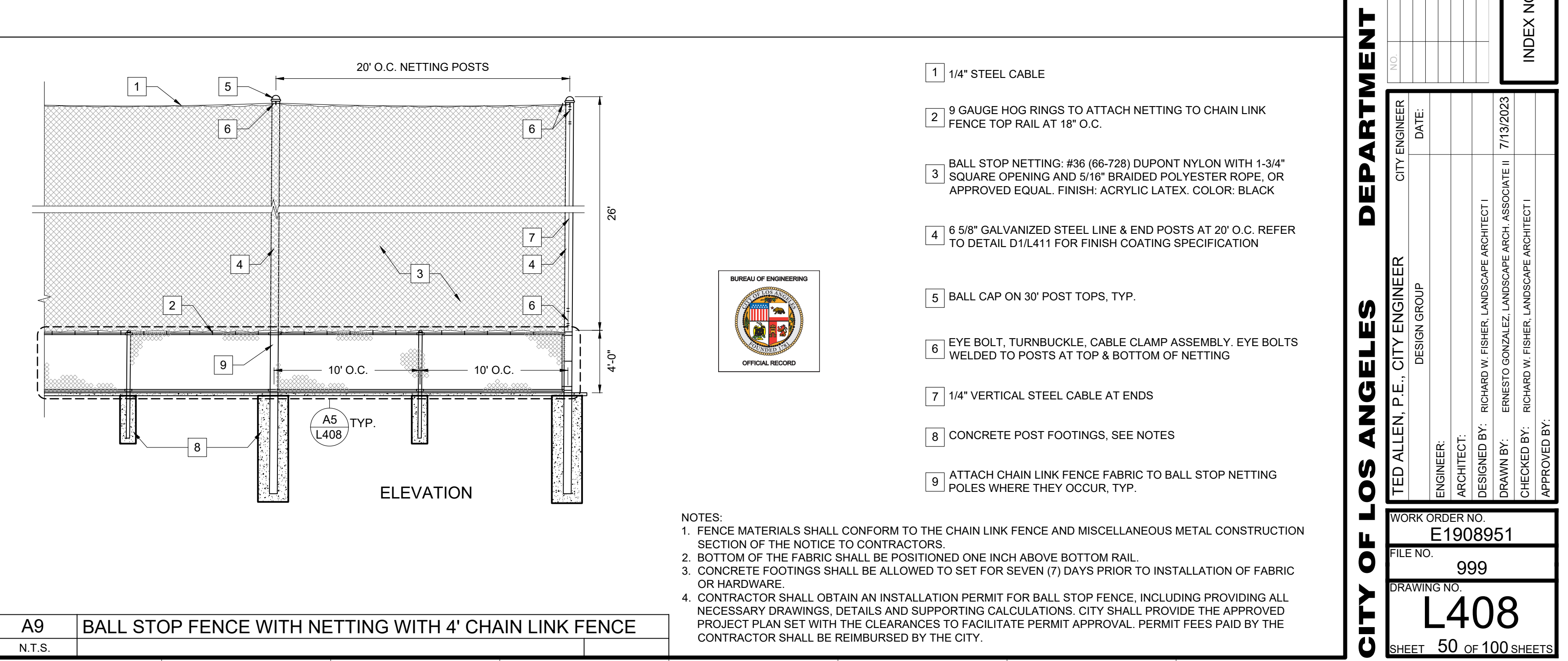
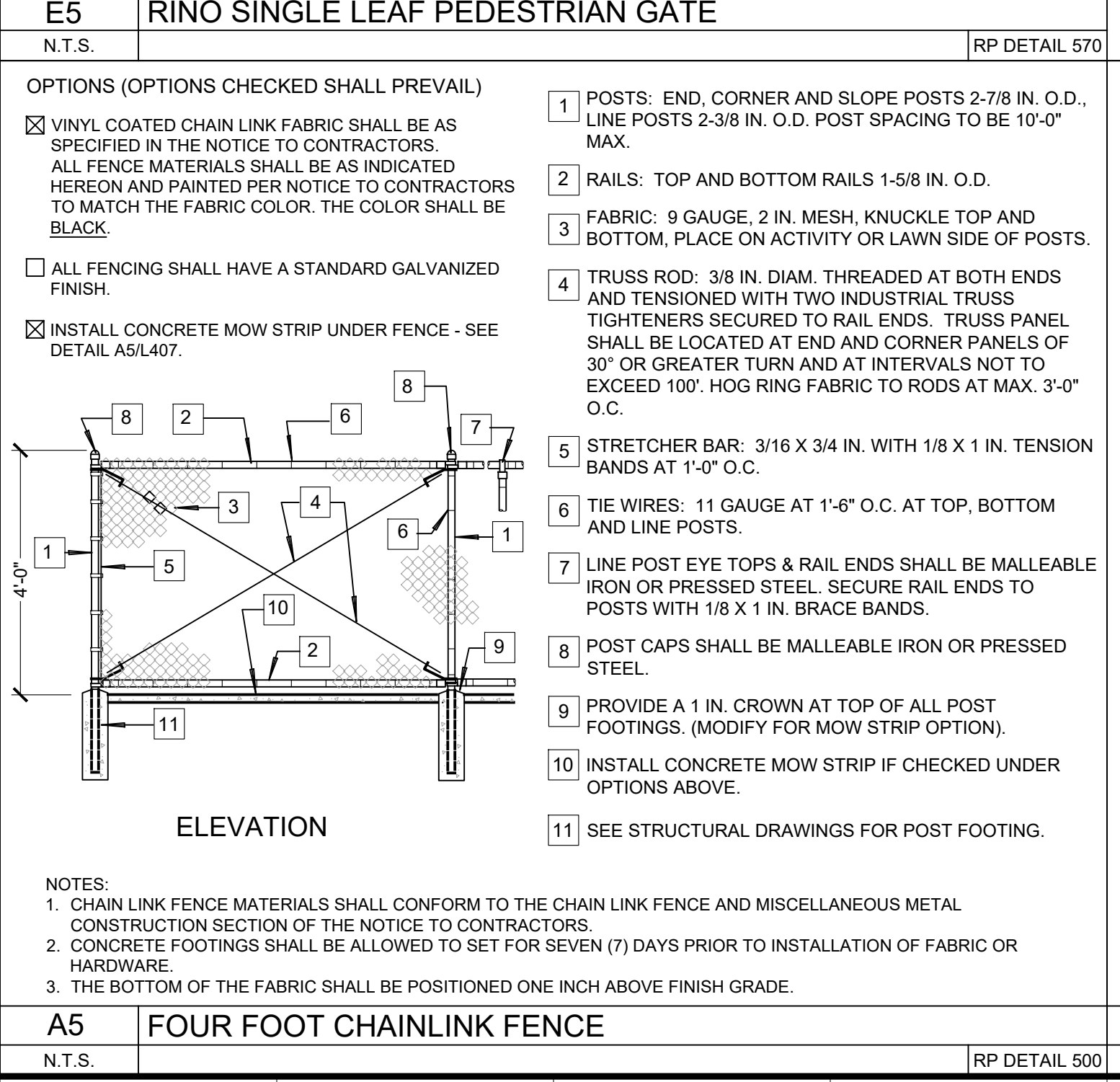
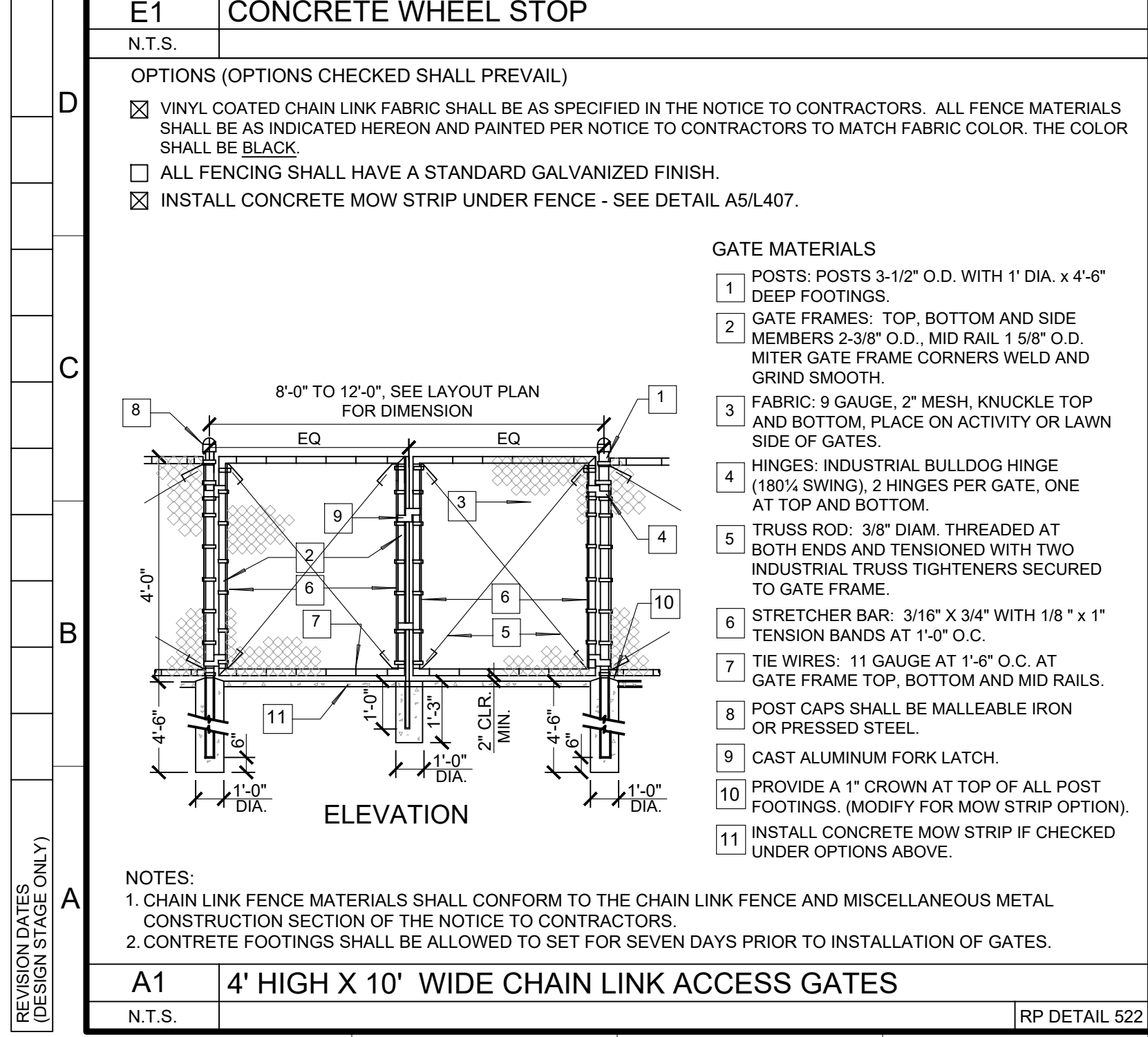
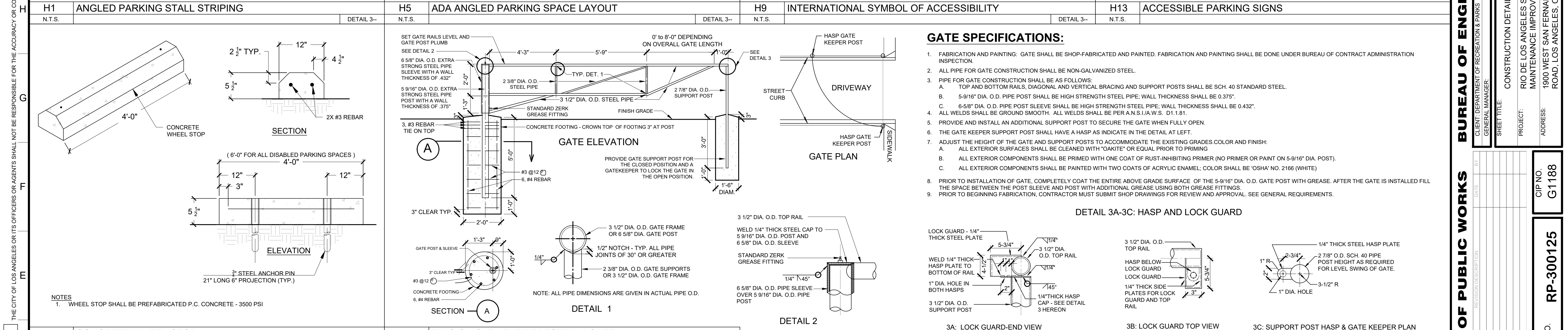
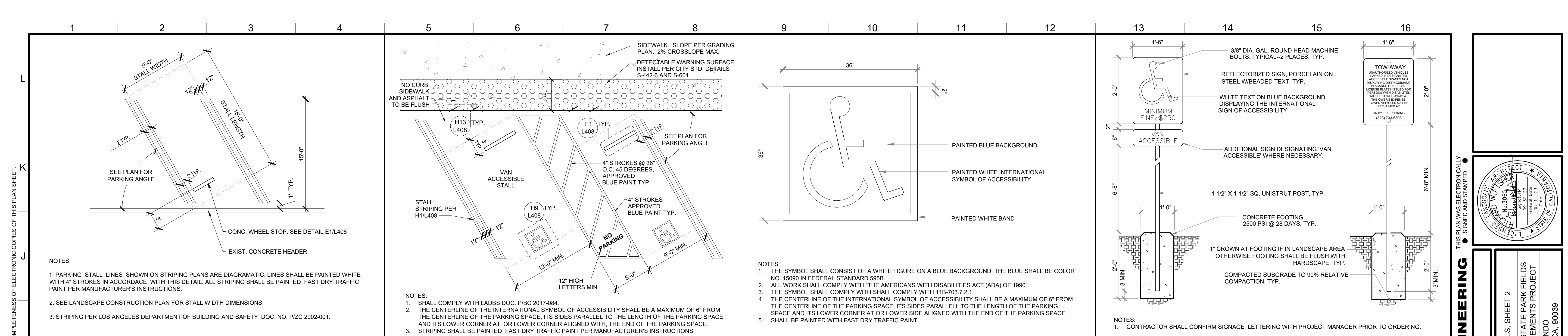
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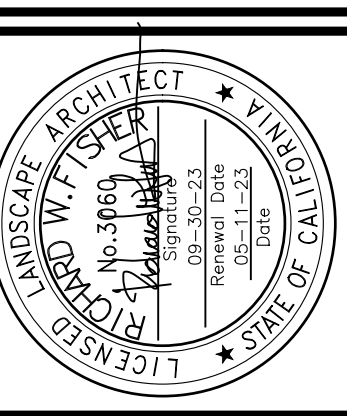
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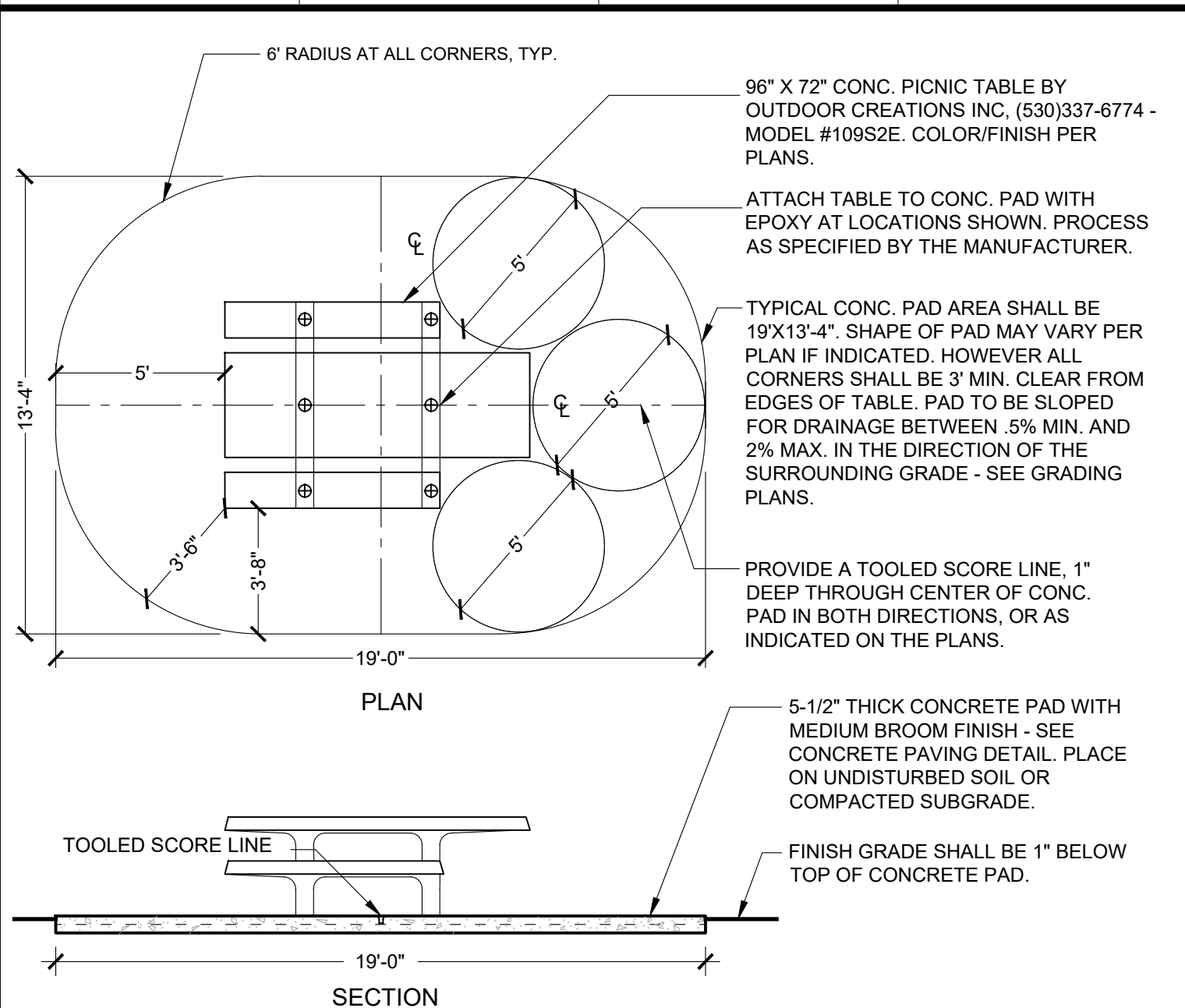
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SHEET 49 OF 100 SHEETS

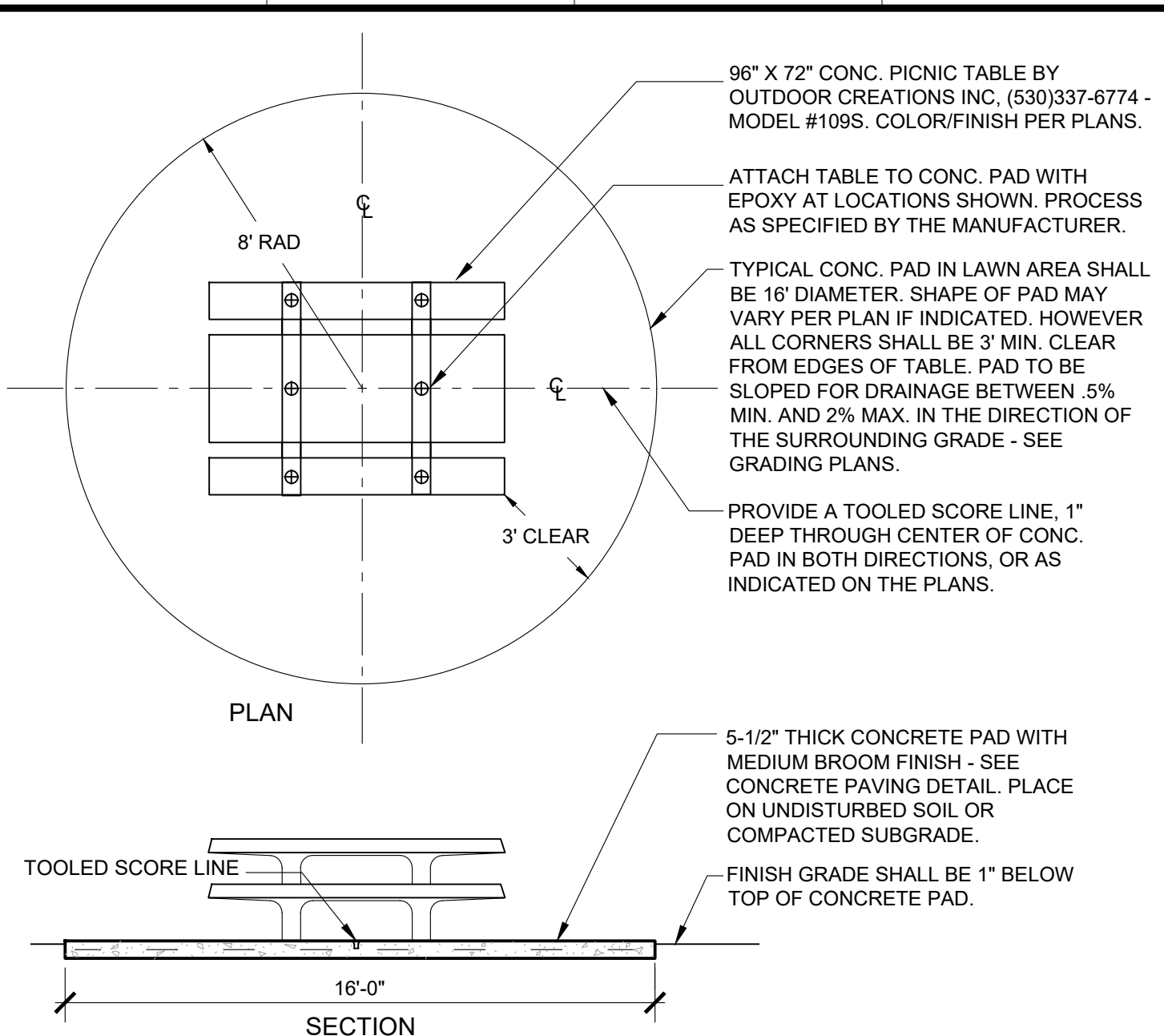


CITY OF LOS ANGELES DEPARTMENT OF PUBLIC WORKS BUREAU OF ENGINEERING
 CLIENT: DEPARTMENT OF RECREATION & PARKS
 GENERAL MANAGER: [Name]
 SHEET TITLE: CONSTRUCTION DETAILS, SHEET 2
 PROJECT: RIO DE LOS ANGELES STATE PARK FIELDS MAINTENANCE IMPROVEMENTS PROJECT
 ADDRESS: 1900 WEST SAN FERNANDO ROAD, LOS ANGELES, CA, 90039
 INDEX NO. RP-300125
 CIP NO. G1188
 ENGINEER: TED ALLEN, P.E., CITY ENGINEER
 ARCHITECT: RICHARD W. FISHER, LANDSCAPE ARCHITECT
 DESIGNED BY: ERNESTO GONZALEZ, LANDSCAPE ARCH. ASSOCIATE II
 DRAWN BY: RICHARD W. FISHER, LANDSCAPE ARCHITECT
 CHECKED BY: [Name]
 APPROVED BY: [Name]
 WORK ORDER NO. E1908951
 FILE NO. 999
 DRAWING NO. L408
 SHEET 50 of 100 SHEETS

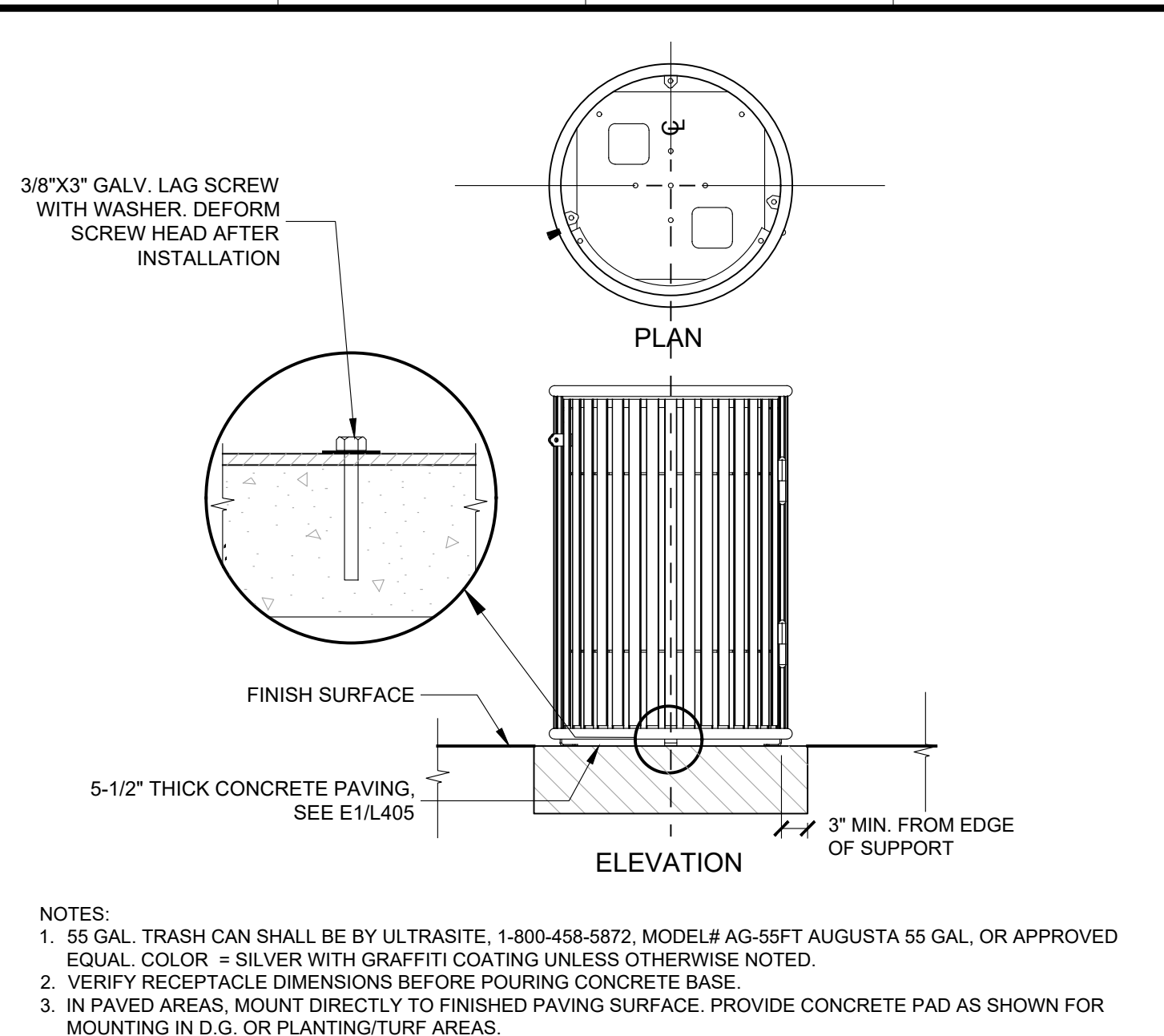




H5 ADA PICNIC TABLE INSTALLATION AND CONCRETE PAD
N.T.S. RP DETAIL 831 ADA



H9 PICNIC TABLE INSTALLATION AND CONCRETE PAD
N.T.S. RP DETAIL 831

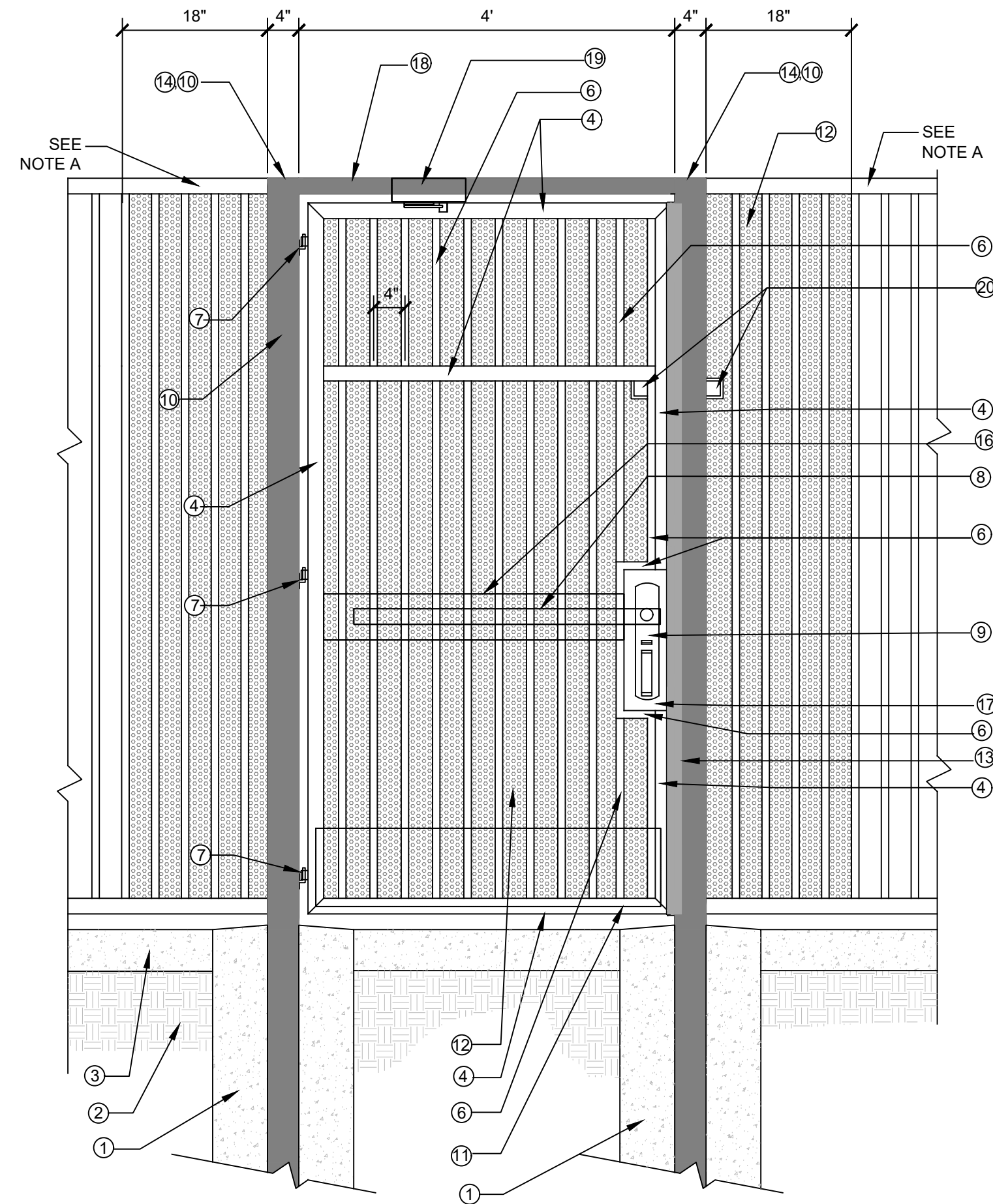


H13 TRASH RECEPTACLE INSTALLATION (AG-55FT) 55 GAL.
N.T.S. RP DETAIL 8201

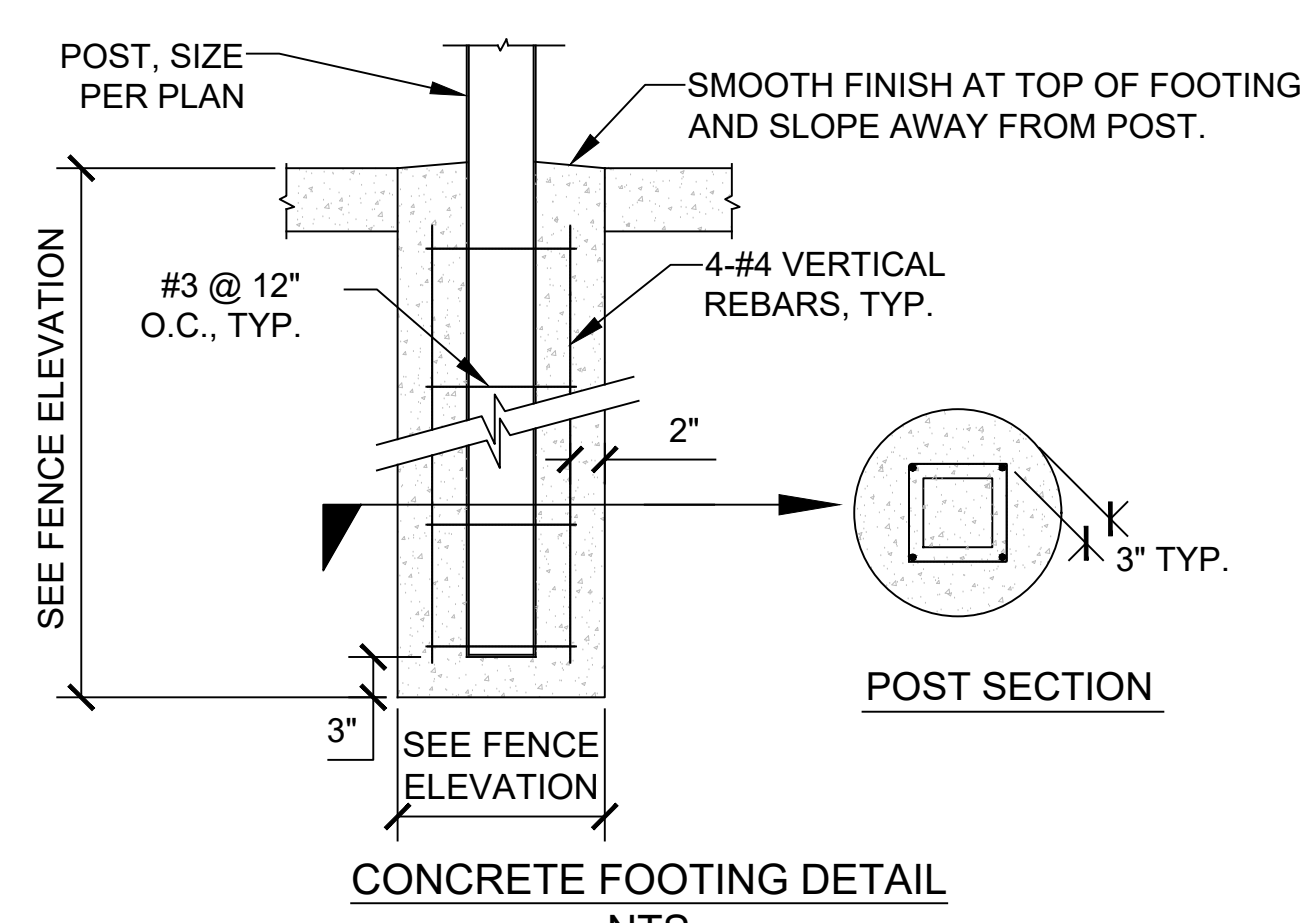
- LEGEND:**
- POURED IN PLACE CONCRETE FOOTING DESIGNED IN ACCORDANCE WITH THE RECOMMENDATIONS IN SECTION 6.1.2, SECTION 6.1.5, 6.1.6 AND 6.4 OF THE GEOTECHNICAL REPORT. SEE FOOTING ENLARGEMENT. CONCRETE TO BE 3000 P.S.I.
 - COMPACTED SUBGRADE. REFER TO SECTIONS 6.1.2, 6.1.5, AND 6.1.6 AND 6.4 OF THE GEOTECHNICAL REPORT.
 - POURED IN PLACE CONCRETE SLAB. SEE PLANS FOR INFORMATION.
 - 2" X 2" X 3/16" THICK STEEL GATE FRAME WITH A 2" X 2" X 3/16" THICK MID-RAIL WELDED TO GATE FRAME. SEE NOTES AND SPECIFICATIONS FOR METAL FINISHING.
 - 2" X 3" X 3/16" THICK TOP RAIL. WELD TO POSTS. SEE NOTES AND SPECIFICATIONS FOR METAL FINISHING.
 - 1-1/2" X 11 GAUGE SQ. TUBULAR STEEL PICKETS @ 9" O.C. MAX. SEE NOTES AND SPECIFICATIONS FOR METAL FINISHING.
 - 3-HEAVY DUTY SELF-CLOSING HINGES, WITH WEIGHT CAPACITY AS REQUIRED BY GATE ASSEMBLY. SUBMIT WITH REQUIRED SHOP DWGS.
 - PANIC BAR ASSEMBLY. AVAILABLE THROUGH VON DUPRIN MODEL# E099 OR APPROVED EQUAL. SATIN CHROME FINISH.
 - VON DUPRIN MODEL 990TP-RV THUMB-PIECE TRIM WITH 1-1/8" RM CYLINDER (SOLD SEPARATELY), OR APPROVED EQUAL. SATIN CHROME FINISH.
 - 4" X 4" X 3/16" THICK SQ. STEEL POST. SET PLUMB TO GRADE. SEE NOTES AND SPECIFICATIONS FOR METAL FINISHING.
 - 10" TALL X 3/16" THICK SHEET STEEL KICK PLATE (INSTALLED ON PARK SIDE OF GATE), WELDED TO GATE FRAME. SEE NOTES AND SPECIFICATIONS FOR METAL FINISHING.
 - PERFORATED METAL PANELS: 16 GAUGE GALVANIZED STEEL WITH 3/16" HOLES AND 3/32" STAGGERED. PERFORATED PANELS TO BE FRAMED WITH 1/8" THICK SHEET STEEL TO CREATE A 1/2" MINIMUM WIDTH FOR STABILITY AND MOUNTING (OR APPROVED EQUAL METHOD). ATTACH TO GATE FRAME/PICKETS ON ALL 4 EDGES BY TACK-WELDING AT 1" O.C. MAX. INSTALL ON THE INSIDE OF GATE & FENCE (PARK SIDE). TO COVER ENTIRE HEIGHT OF GATE & FENCE AS SHOWN. SECURE PERFORATED METAL PANEL TO PICKETS WITH 3/4" LONG SELF-TAPPING METAL SCREWS WITH GALVANIZED WASHERS @ 18" O.C. SEE NOTES AND SPECIFICATIONS FOR METAL FINISHING.
 - 3" WIDE X 3/16" THICK STEEL STRIP, WELDED TO GATE FRAME CONTINUOUS ON 2 SIDES. CANTILEVER 1" MIN. OVER ADJACENT FENCE POST ON STREET SIDE. SEE NOTES AND SPECIFICATIONS FOR METAL FINISHING.
 - 4" SQ. PRESSED STEEL CAP. WELD TO POSTS ON 4 SIDES. SEE NOTES AND SPECIFICATIONS FOR METAL FINISHING.
 - VON DUPRIN STRIKE PLATE OR APPROVED EQUAL. MOUNT TO GATE FRAME. MODEL AND SIZE PER MANUFACTURER'S RECOMMENDATIONS. SEE NOTES AND SPECIFICATIONS FOR METAL FINISHING.
 - 3/16" THICK X 6" TALL STEEL MOUNTING PLATE. LENGTH TO BE EQUAL TO WIDTH OF GATE FRAME. WELD PLATE TO EACH PICKET AT SURFACE OF CONTACT. LOCK HARDWARE BOX (SEE #17) AND GATE FRAME AS SHOWN. SEE NOTES AND SPECIFICATIONS FOR METAL FINISHING.
 - 8" WIDE X 18" TALL X 1-3/4" DEPTH WELDED STEEL LOCK HARDWARE BOX TO HOUSE GATE OPERATION HARDWARE. STEEL TO BE 3/16" THICK. SEE NOTES AND SPECIFICATIONS FOR METAL FINISHING.
 - 2" X 3/16" THICK TOP RAIL AT PEDESTRIAN GATE. PIECE BETWEEN POST. WELD RAIL TO POST AT ALL 4 SIDES. SEE NOTES AND SPECIFICATIONS FOR METAL FINISHING.
 - GATE CLOSER UNIT, MODEL # 4040XP BY LCN OR APPROVED EQUAL. ALUMINUM FINISH COVER.
 - 2" X 2" MIN. SQUARE OPENING IN PERFORATED STEEL PANEL TO ACCOMMODATE CHAIN AND LOCK - FRAME WITH 2" SQUARE TUBING ON 3 SIDES AND WELDED TO GATE FRAME. SEE NOTES AND SPECIFICATIONS FOR METAL FINISHING. CHAIN AND LOCK TO BE PROVIDED BY RECREATION AND PARKS.

- NOTES & SPECIFICATIONS:**
- FASTENERS:**
- ALL FASTENERS SHALL BE HOT-DIPPED GALVANIZED STEEL OR STAINLESS STEEL, AND COATED WITH POLYESTER COATING AS SPECIFIED BELOW IF NOTED.
 - ALL BOLTS AND NUTS SHALL BE TAMPER RESISTANT. DAMAGING OR ALTERING THREADS OF BOLTS OR SCREWS WILL NOT BE CONSIDERED TO BE TAMPER RESISTANT AND WILL NOT BE ALLOWABLE.
- COATINGS:**
- THE TUBULAR STEEL POSTS, GATE FRAME AND FENCE PANELS SHALL BE COATED WITH 1.5 OZ/SQ. FT. (460 GM/M²) ZINC IN CONFORMITY WITH ASTM A 123/A 123M STANDARD SPECIFICATION FOR ZINC (HOT DIP GALVANIZED) COATING ON IRON AND STEEL PRODUCTS, KNOWN AS GALVANIZED AFTER WELDING (GAW).
 - THE POLYESTER SURFACE COATING COLOR SHALL BE BLACK, RAL 9004. POLYESTER COATING TO BE MINIMUM 4 MILS APPLIED BY AN ELECTROSTATIC METHOD. COATING SHALL COVER ALL SURFACES OF THE FENCE, GATE AND POST SECTIONS. COATING SHALL BE CAPABLE OF WITHSTANDING THE FOLLOWING TESTS:
 - MECHANICAL ADHESION TEST AS PER ASTM D 3359 (1990) - METHOD B
 - SHOCK RESISTANCE TEST AS PER ASTM D 2794 (1990)
 - SALT SPRAY TESTING WITH A MIN. OF 1,000 HOURS WITHOUT RED RUST APPEARANCE, AS PER ASTM B 117 (1990)
 - HUMIDITY RESISTANCE IN A WEATHER METER CHAMBER AS PER ASTM D 2247 (1998)
 - EXPOSURE TO ULTRAVIOLET LIGHT WITH EXPOSURE OF 1,000 HOURS USING APPARATUS TYPE E AND 63°C AS PER ASTM D 1499

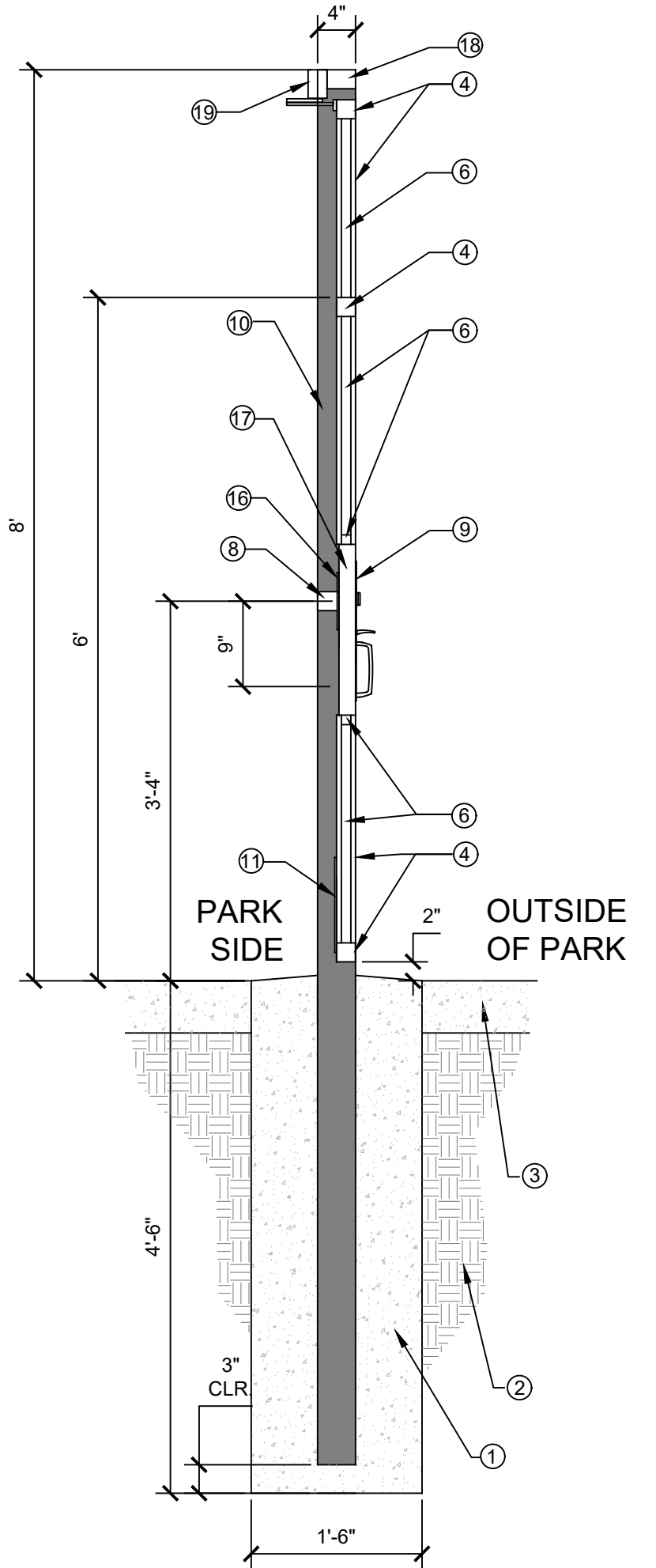
- INSTALLATION GENERAL:**
- STAKE LOCATIONS OF FENCE LINES, GATES, AND TERMINAL POSTS. DO NOT EXCEED INTERVALS OF 500 FEET OF LINE OF SIGHT BETWEEN STAKES. INDICATE LOCATIONS OF UTILITIES, LAWN SPRINKLER SYSTEM, UNDERGROUND STRUCTURES, BENCHMARKS, AND PROPERTY MONUMENTS.
 - INSTALL FENCING PER LOCATIONS INDICATED ON PLANS INSIDE PROPERTY LINE.
 - POST EXCAVATION: EXCAVATE HOLES FOR POSTS TO DIAMETERS, DEPTH AND SPACING INDICATED ON PLANS IN FIRM, UNDISTURBED OR COMPACTED SOILS PER DETAILS.
 - POST SETTING: SET POSTS IN CONCRETE FOOTINGS SO THAT POSTS ARE SET PLUMB, ALIGNED AND SET AT CORRECT HEIGHT AND SPACING. PLACE CONCRETE AROUND POSTS. HOLD POST IN POSITION DURING PLACEMENT AND FINISHING OPERATIONS UNTIL CONCRETE IS SUFFICIENTLY CURED. EXPOSED FOOTING. SEE PLANS AND DETAILS.
- FENCE INSTALLATION:**
- TERMINAL POSTS LOCATE TERMINAL END, CORNER, AND GATE POSTS AT CHANGES IN HORIZONTAL OR VERTICAL ALIGNMENT OF 15 DEGREES OR GREATER.
 - SQUARE POST INSTALLATION: AS INDICATED ON DRAWINGS.
 - INSTALL MESH TO PANELS WITH BRACKETS AT REQUIRED SPACING PER PLANS AND DETAILS. THE FENCE PANEL SHALL BE INSTALLED A DISTANCE OF A MINIMUM OF 1-1/4" IN. AND MAXIMUM OF 2 IN. ABOVE THE GROUND SURFACE. UPON CUTTING OR TRIMMING, A POST OR A WIRE MESH SECTION APPLY ZINC RICH PRIMER TO THE EXPOSED ENDS AND FINISH WITH THE MATCHING TOUCH-UP PAINT SUPPLIED BY THE MFR.
- GATE INSTALLATION:**
- GATE POST INSTALLATION: PER PLAN AND DETAILS.
 - INSTALL GATES PERFECTLY HORIZONTAL AND LEVEL, PLUMB, AND SECURE FOR FULL OPENING WITHOUT INTERFERENCE UNLESS INDICATED ON DRAWINGS.
 - ATTACH HARDWARE TO HAVE THE NUTS INSIDE THE PROPERTY THUS MAKING THE ASSEMBLY TAMPER-PROOF WHICH WILL PREVENT UNAUTHORIZED REMOVAL.
 - INSTALL GROUND-SET ITEMS IN CONCRETE FOOTINGS FOR ANCHORAGE.
 - ADJUST HARDWARE FOR SMOOTH OPERATION AND LUBRICATE WHERE NECESSARY TO OPERATE SMOOTHLY, EASILY, AND QUIETLY. FREE FROM BINDING, WARP, EXCESSIVE DEFLECTION, DISTORTION, NONALIGNMENT, MISPLACEMENT, DISRUPTION, OR MALFUNCTION, THROUGHOUT THE ENTIRE OPERATIONAL RANGE. CONFIRM THAT LATCHES AND LOCKS ENGAGE ACCURATELY AND SECURELY WITHOUT FORCING OR BINDING.



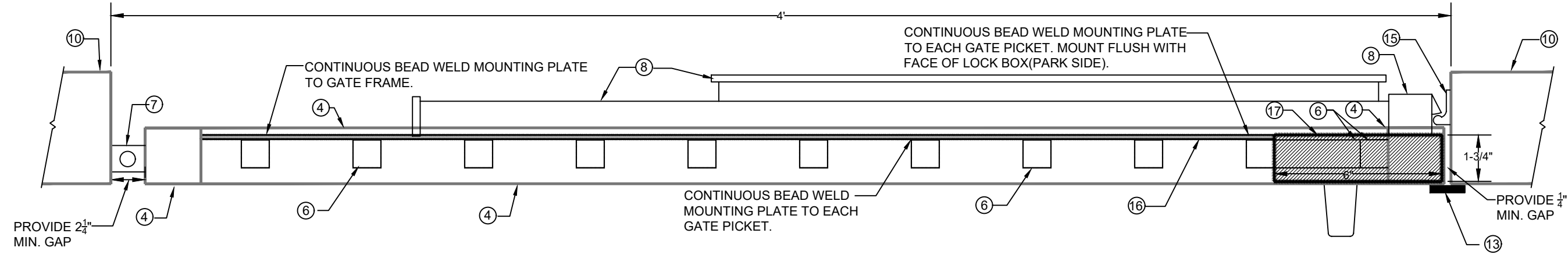
GATE ELEVATION NTS



CONCRETE FOOTING DETAIL NTS



GATE SECTION NTS



GATE ASSEMBLY PLAN NTS

A1 8' HIGH TUBULAR STEEL GATE WITH LOCK

THIS PLAN WAS ELECTRONICALLY SIGNED AND STAMPED

BUREAU OF ENGINEERING

CLIENT: DEPARTMENT OF RECREATION & PARKS

GENERAL MANAGER: [Signature]

SHEET TITLE: CONSTRUCTION DETAILS, SHEET 3

PROJECT: RIO DE LOS ANGELES STATE PARK FIELDS MAINTENANCE IMPROVEMENTS PROJECT

ADDRESS: 1900 WEST SAN FERNANDO ROAD, LOS ANGELES, CA, 90039

INDEX NO. RP-300125

CIP NO. G1188

CITY ENGINEER: TED ALLEN, P.E., CITY ENGINEER

DESIGN GROUP: [Signature]

ARCHITECT: RICHARD W. FISHER, LANDSCAPE ARCHITECT

DESIGNED BY: ERNESTO GONZALEZ, LANDSCAPE ARCH. ASSOCIATE II

DRAWN BY: RICHARD W. FISHER, LANDSCAPE ARCHITECT

CHECKED BY: RICHARD W. FISHER, LANDSCAPE ARCHITECT

APPROVED BY: [Signature]

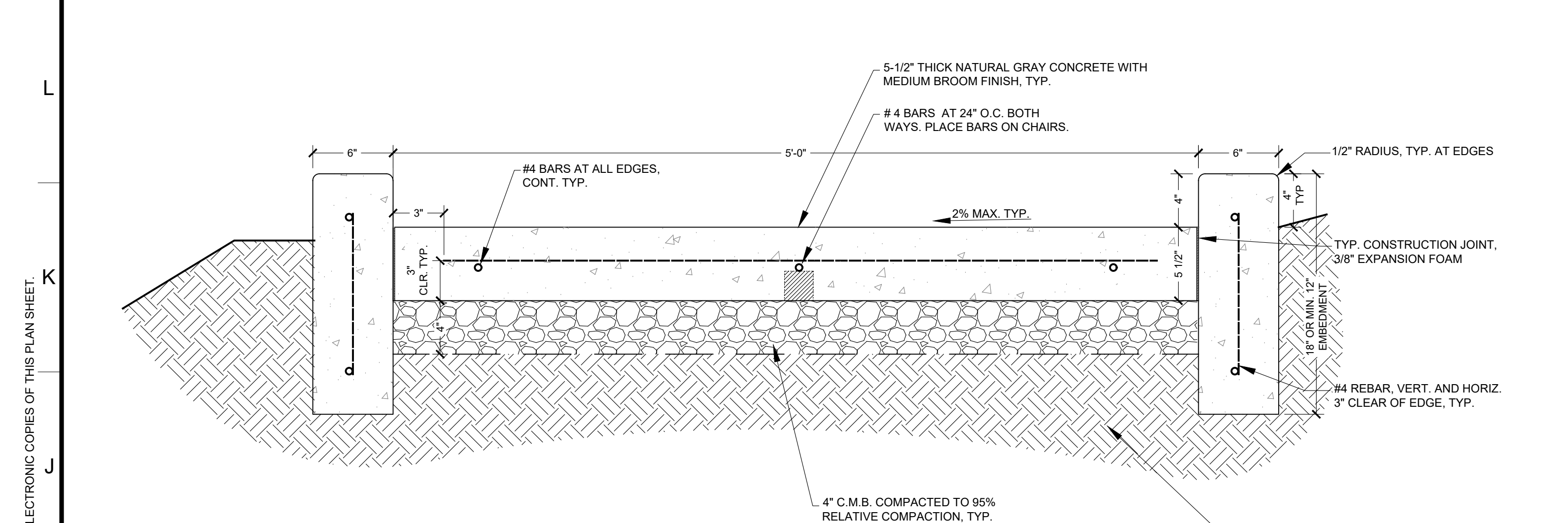
DATE: 7/13/2023

WORK ORDER NO. E1908951

FILE NO. 999

DRAWING NO. L409

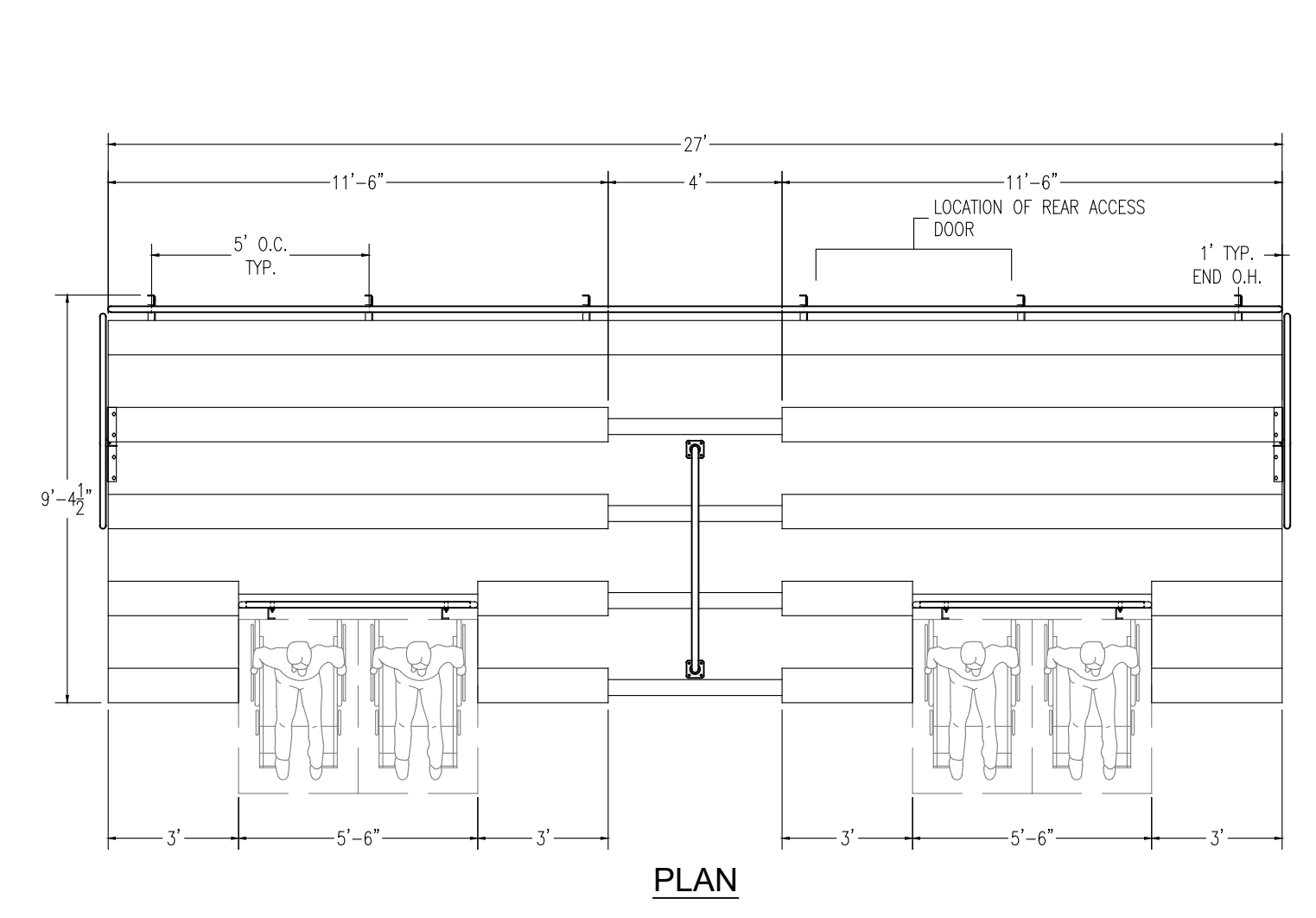
SHEET 51 OF 100 SHEETS



NOTES:
 1. PROVIDE TOOLED SCORE LINES, 1" DEEP, AT LOCATIONS SHOWN ON CONSTRUCTION PLAN.
 2. PROVIDE TOOLED SCORE LINES, 1" DEEP, EVENLY SPACED THROUGHOUT CURB NOT TO EXCEED 20' O.C.
 3. ALIGN WITH SCORE LINES IN PAVING.
 4. EXPANSION JOINTS SHALL BE CONSTRUCTED PER DETAIL AT LOCATIONS SHOWN ON PLAN.
 5. PROVIDE ISOLATION JOINT PER DETAIL AGAINST PREVIOUSLY CONSTRUCTED FIXED ELEMENTS.
 6. END OF POUR JOINTS - SEE LANDSCAPE CONSTRUCTION NOTES.

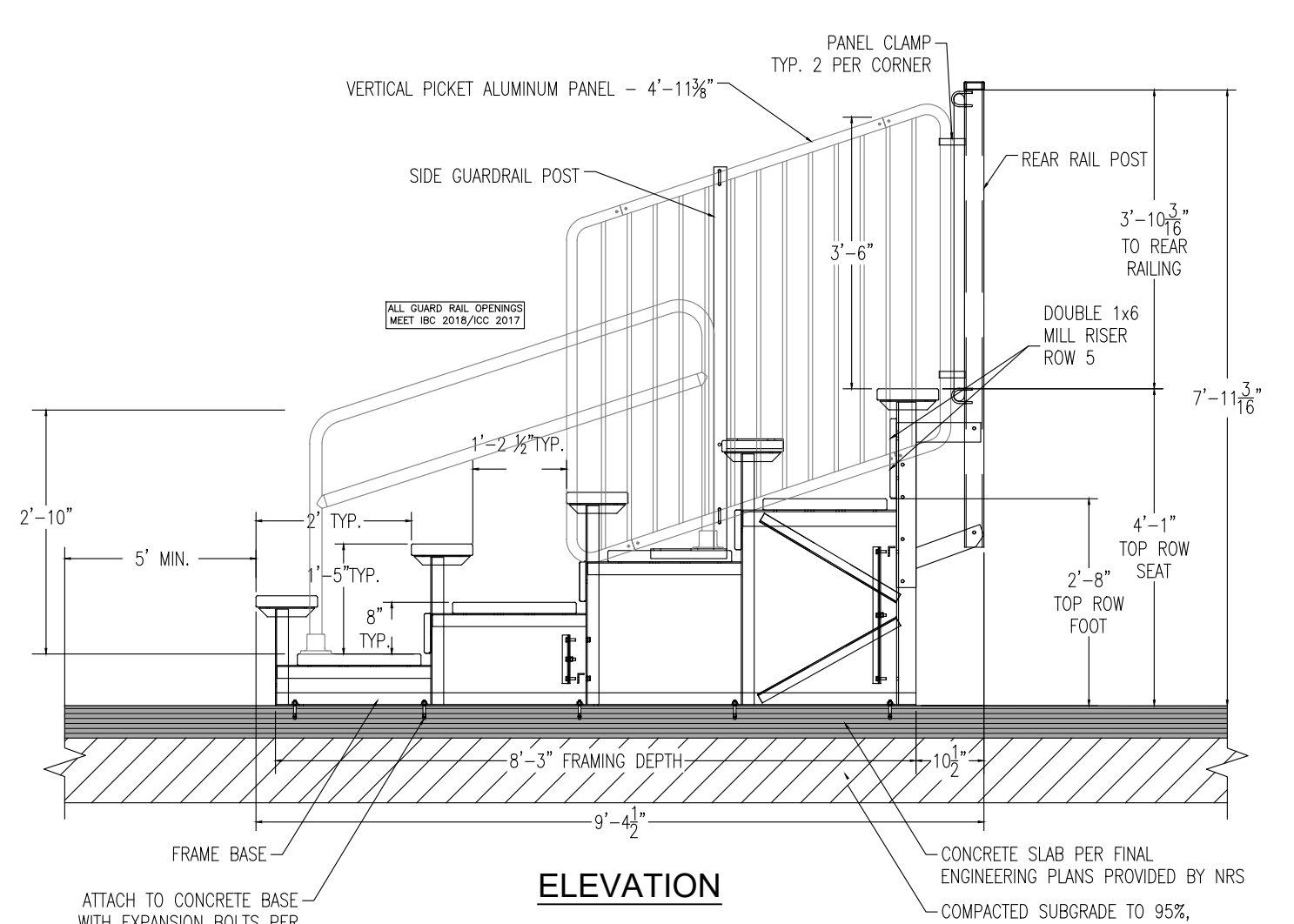
SCARIFY THE EXISTING SOIL AT LEAST 8 INCHES, MOISTURE CONDITION BETWEEN 0 AND 3 PERCENT ABOVE OPTIMUM, AND COMPACT TO A MINIMUM 90% RELATIVE COMPACTION. COMPACTION NOT REQUIRED BENEATH CONCRETE CURBS

H1	ADA WALKWAY W/ CURB CROSS SECTION	RP DETAIL 3010
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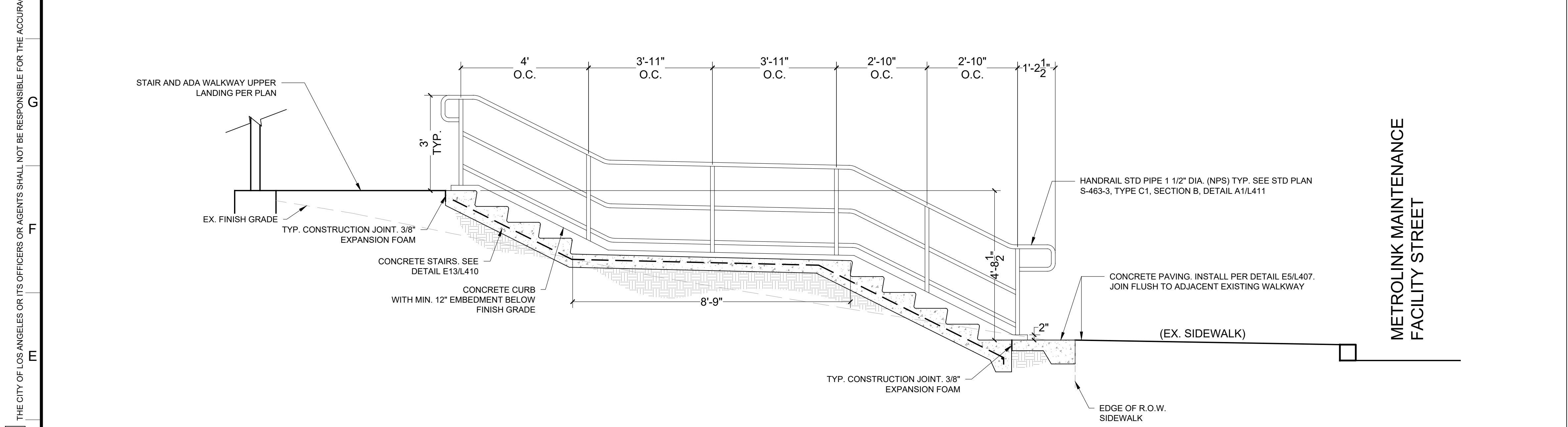
NOTE: CONTRACTOR SHALL OBTAIN AN INSTALLATION PERMIT FOR BLEACHERS, INCLUDING PROVIDING ALL NECESSARY DRAWINGS, DETAILS AND SUPPORTING CALCULATIONS. CITY SHALL PROVIDE THE APPROVED PROJECT PLAN SET WITH THE CLEARANCES TO FACILITATE PERMIT APPROVAL. PERMIT FEES PAID BY THE CONTRACTOR SHALL BE REIMBURSED BY THE CITY.

H9	ALUMINUM BLEACHERS - 27', 5-ROW, ADA-COMPLIANT	N.T.S.
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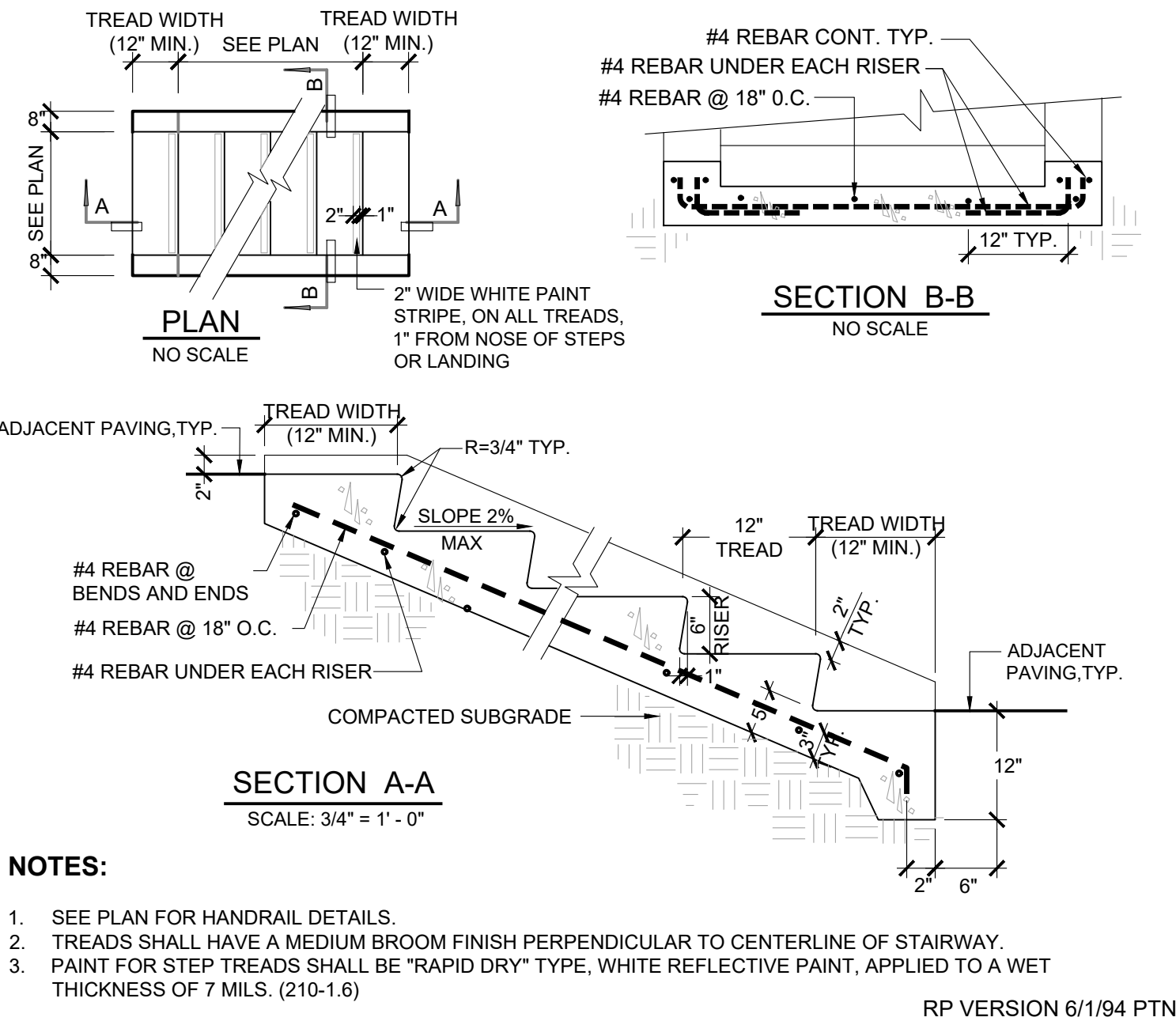


NOTES:
 1. CONTRACTOR SHALL PROVIDE AND INSTALL (2) 5-ROW X 27' LONG ALUMINUM BLEACHERS, MODEL#0527ADA_VP BY NATIONAL RECREATION SYSTEMS, INC. (NRS). CONTACT: (888) 588-8064, OR WWW.BLEACHER.NET. CONTACT NATE YOUNKER AT (858) 344-0445.
 2. THIS DRAWING IS PROVIDED FOR BIDDING PURPOSES ONLY. CONSTRUCT PER MFR'S APPROVED SHOP DRAWINGS AND DETAILS.
 3. CONTRACTOR SHALL PROVIDE SHOP DRAWINGS TO PROJECT MANAGER FOR APPROVAL PRIOR TO PURCHASE AND INSTALLATION.
 4. BLEACHERS SHALL COMPLY WITH ICC 300.

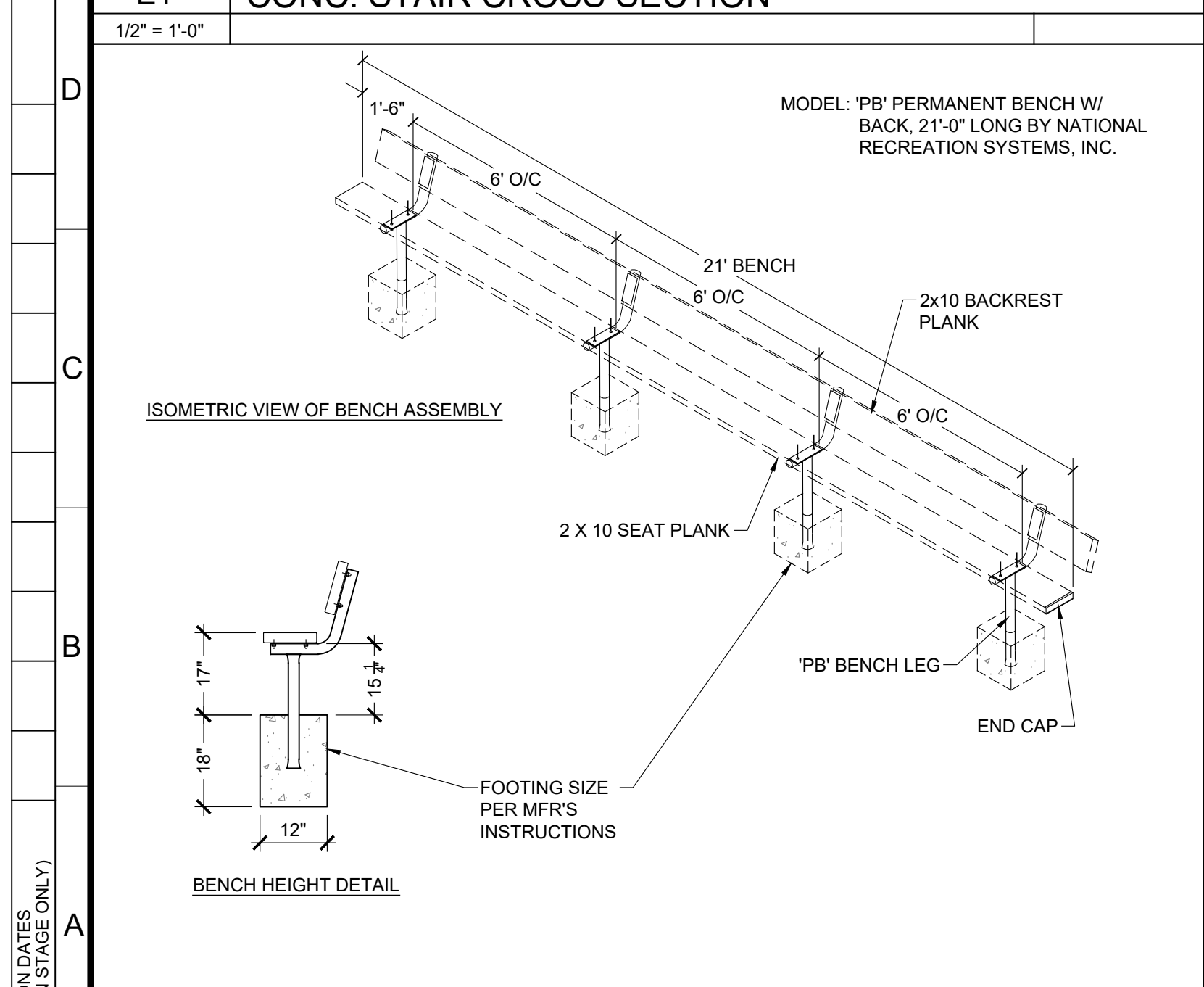
E13	CONCRETE STAIRWAY	RP DETAIL 3500
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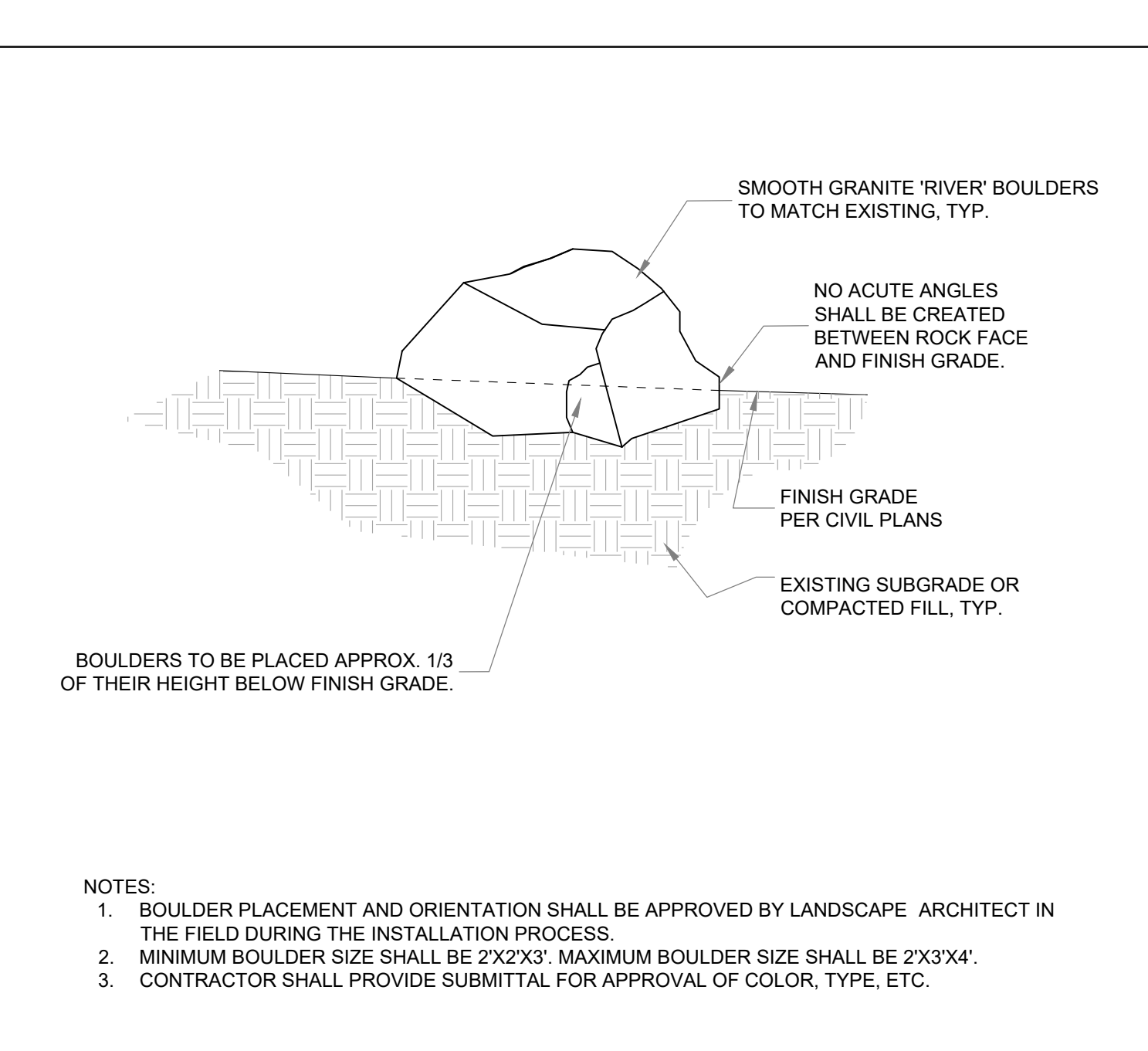
E1	CONC. STAIR CROSS SECTION	1/2" = 1'-0"
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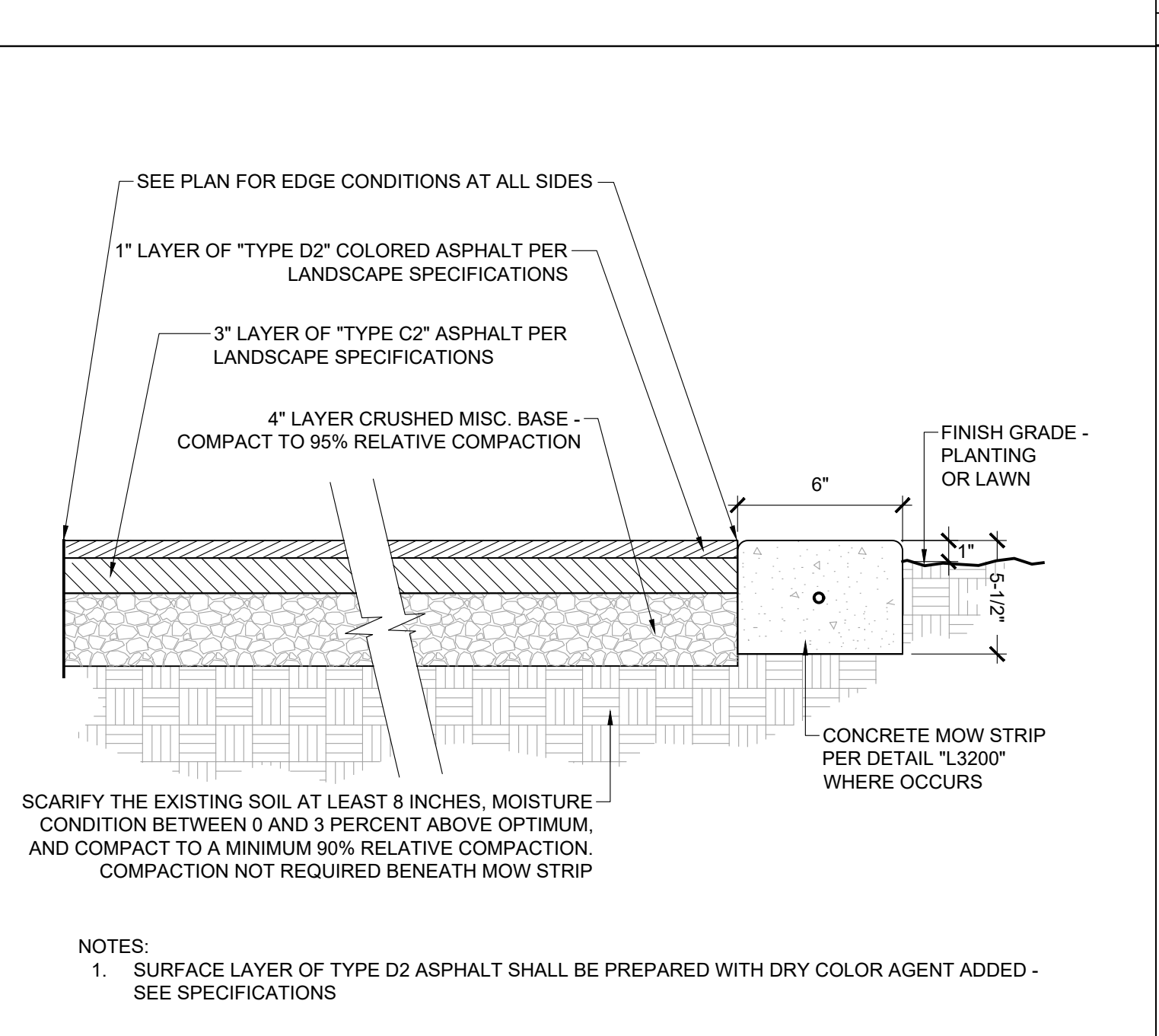
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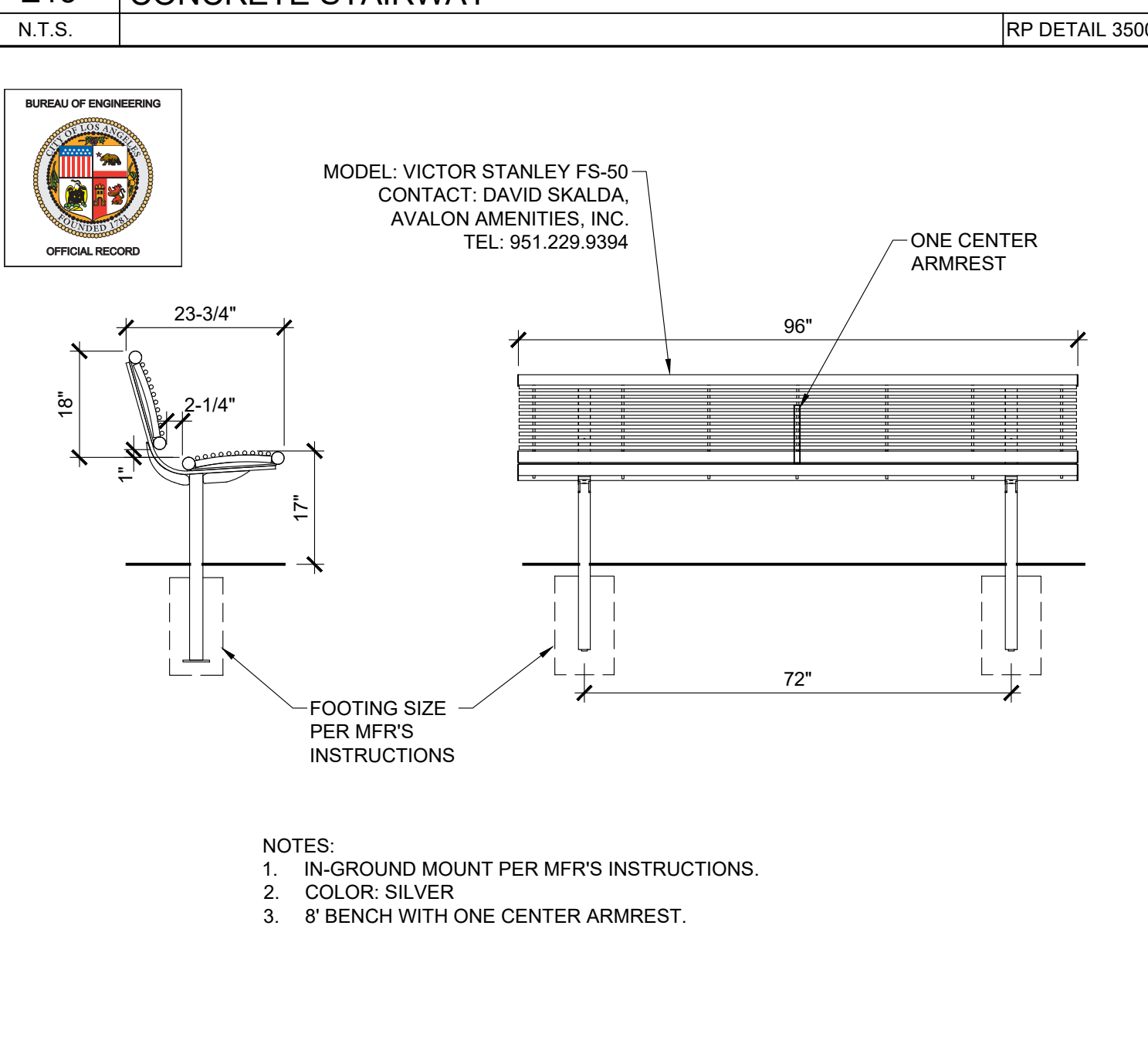
A1	PERMANENT PLAYER BENCH W/ BACK, 21'-0" LONG	N.T.S.
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A5	BOULDER INSTALLATION	N.T.S.
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A9	ASPHALT WALKWAY WITH CONCRETE CURB	RP DETAIL 3161
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A13	8' STEEL BENCH	N.T.S.
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THIS PLAN WAS ELECTRONICALLY SIGNED AND STAMPED

BUREAU OF ENGINEERING

CLIENT: DEPARTMENT OF RECREATION & PARKS

GENERAL MANAGER: [Name]

SHEET TITLE: CONSTRUCTION DETAILS, SHEET 4

PROJECT: RIO DE LOS ANGELES STATE PARK FIELDS MAINTENANCE IMPROVEMENTS PROJECT

ADDRESS: 1900 WEST SAN FERNANDO ROAD, LOS ANGELES, CA, 90039

CIP NO. G1188

INDEX NO. RP-300125

CITY OF LOS ANGELES DEPARTMENT OF PUBLIC WORKS

NO. [] REVISION DESCRIPTION [] DATE [] BY []

ENGINEER: TED ALLEN, P.E., CITY ENGINEER

DESIGN GROUP: []

ARCHITECT: RICHARD W. FISHER, LANDSCAPE ARCHITECT

DESIGNED BY: ERNESTO GONZALEZ, LANDSCAPE ARCH. ASSOCIATE II

DRAWN BY: RICHARD W. FISHER, LANDSCAPE ARCHITECT

CHECKED BY: RICHARD W. FISHER, LANDSCAPE ARCHITECT

APPROVED BY: []

DATE: 7/13/2023

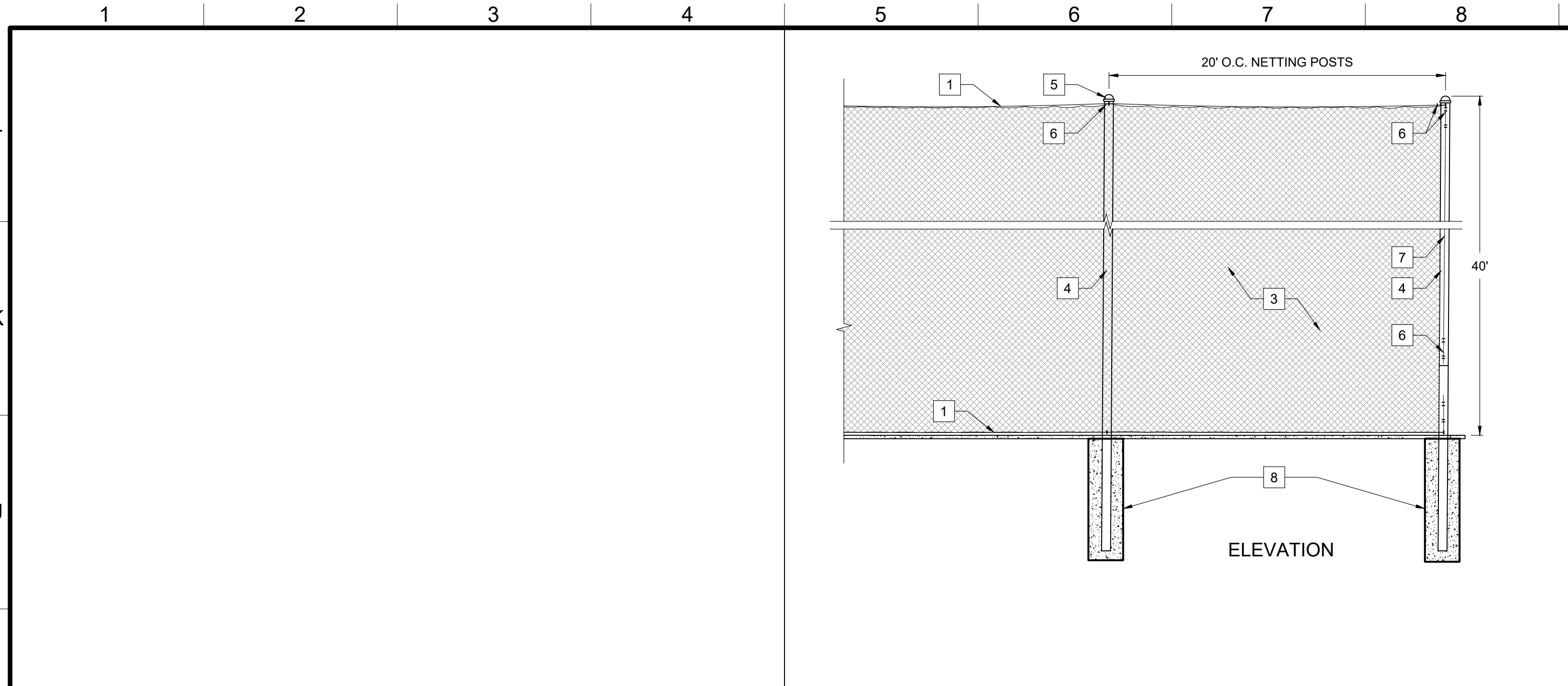
WORK ORDER NO. E1908951

FILE NO. 999

DRAWING NO. L410

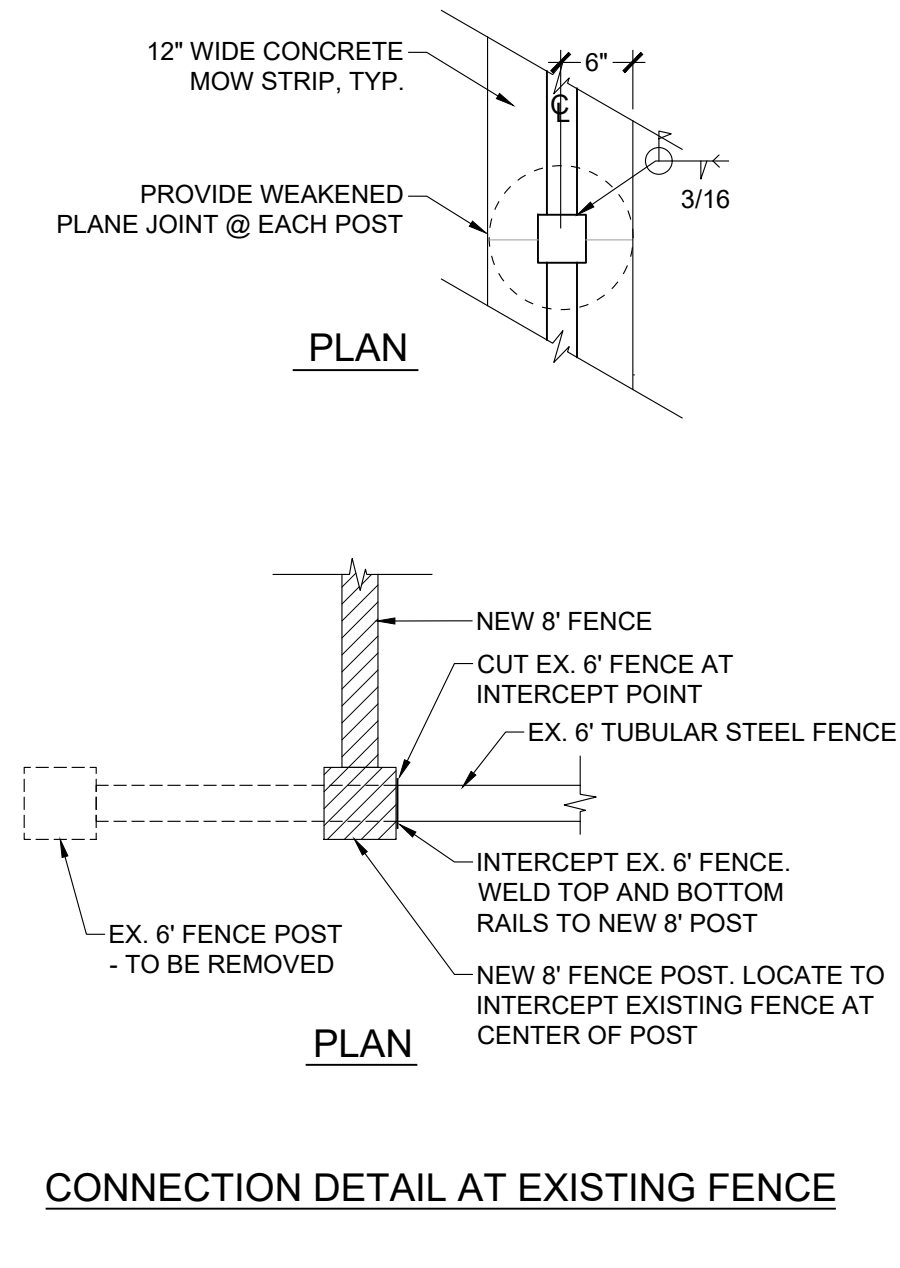
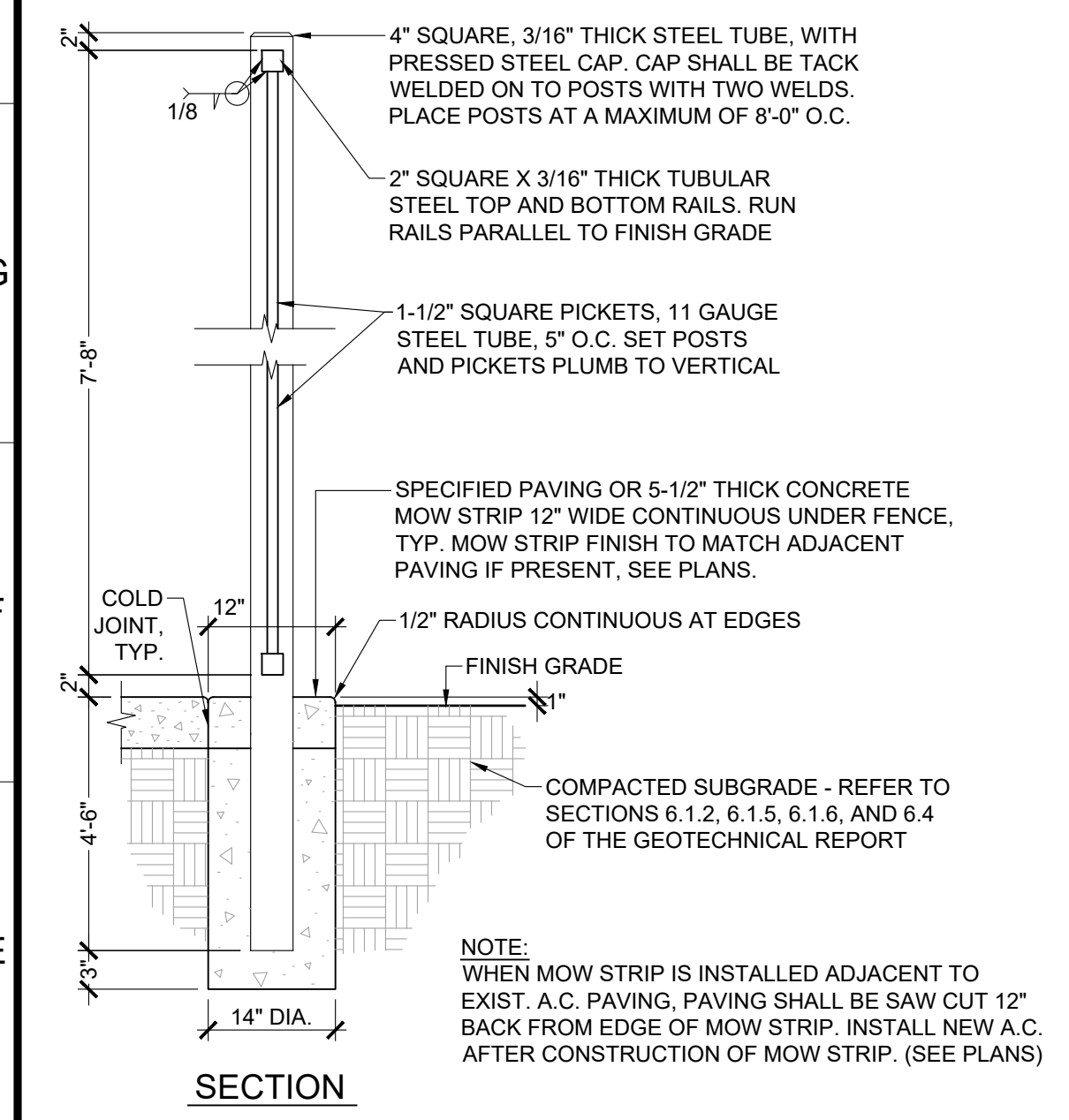
SHEET 52 OF 100 SHEETS

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



H5 BALL STOP FENCE WITH NETTING
N.T.S.

- NOTES:**
- FENCE MATERIALS SHALL CONFORM TO THE CHAIN LINK FENCE AND MISCELLANEOUS METAL CONSTRUCTION SECTION OF THE NOTICE TO CONTRACTORS.
 - CONCRETE FOOTINGS SHALL BE ALLOWED TO SET FOR SEVEN (7) DAYS PRIOR TO INSTALLATION OF FABRIC OR HARDWARE.
 - THE BOTTOM OF THE FABRIC SHALL BE POSITIONED ONE INCH ABOVE FINISH GRADE.
 - CONTRACTOR SHALL OBTAIN AN INSTALLATION PERMIT FOR BALL STOP FENCE, INCLUDING PROVIDING ALL NECESSARY DRAWINGS, DETAILS AND SUPPORTING CALCULATIONS. CITY SHALL PROVIDE THE APPROVED PROJECT PLAN SET WITH THE CLEARANCES TO FACILITATE PERMIT APPROVAL. PERMIT FEES PAID BY THE CONTRACTOR SHALL BE REIMBURSED BY THE CITY.

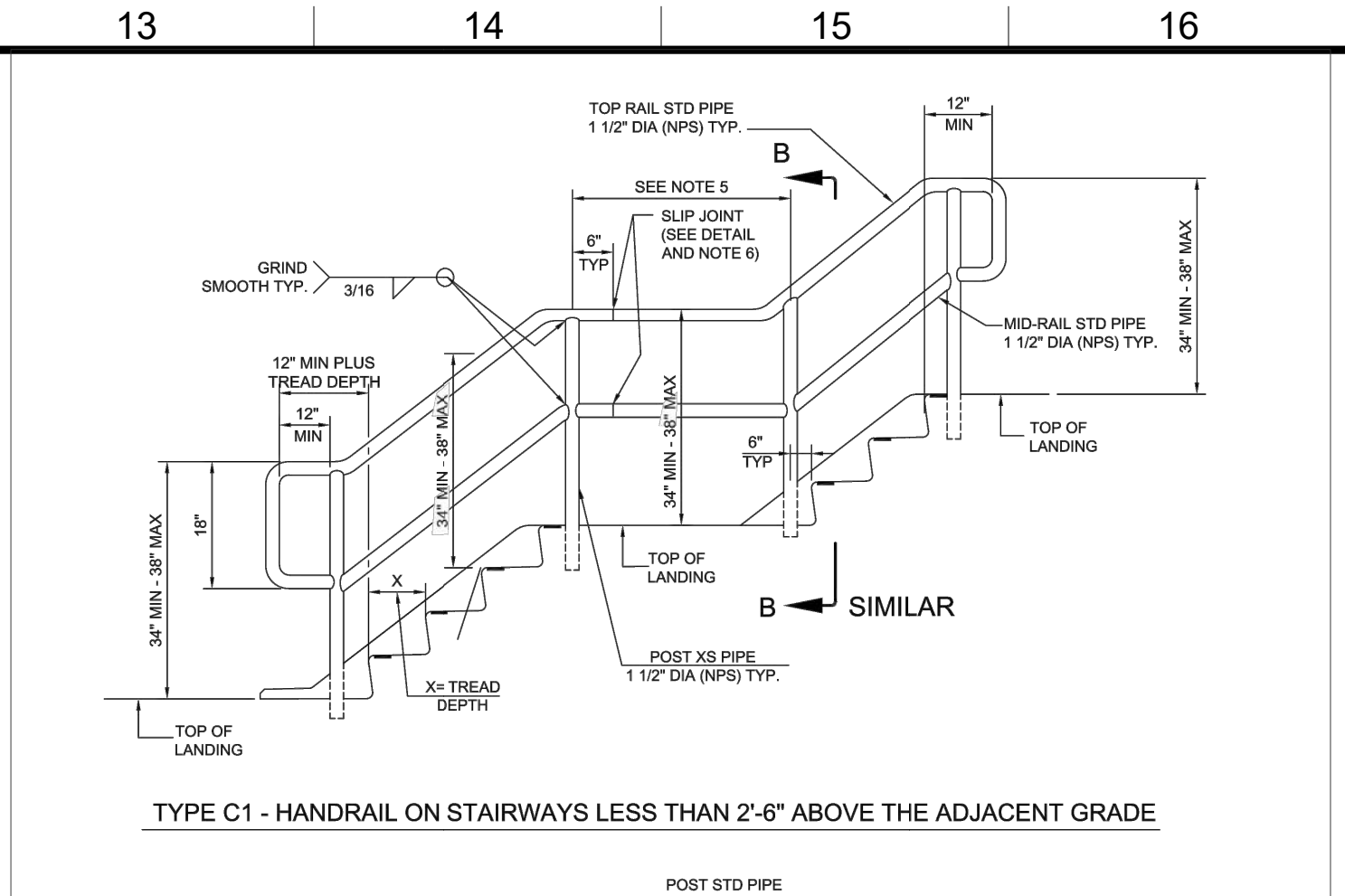


D1 8"-0" TUBULAR STEEL FENCE & CONNECTION DETAIL @ EX. FENCE
N.T.S.

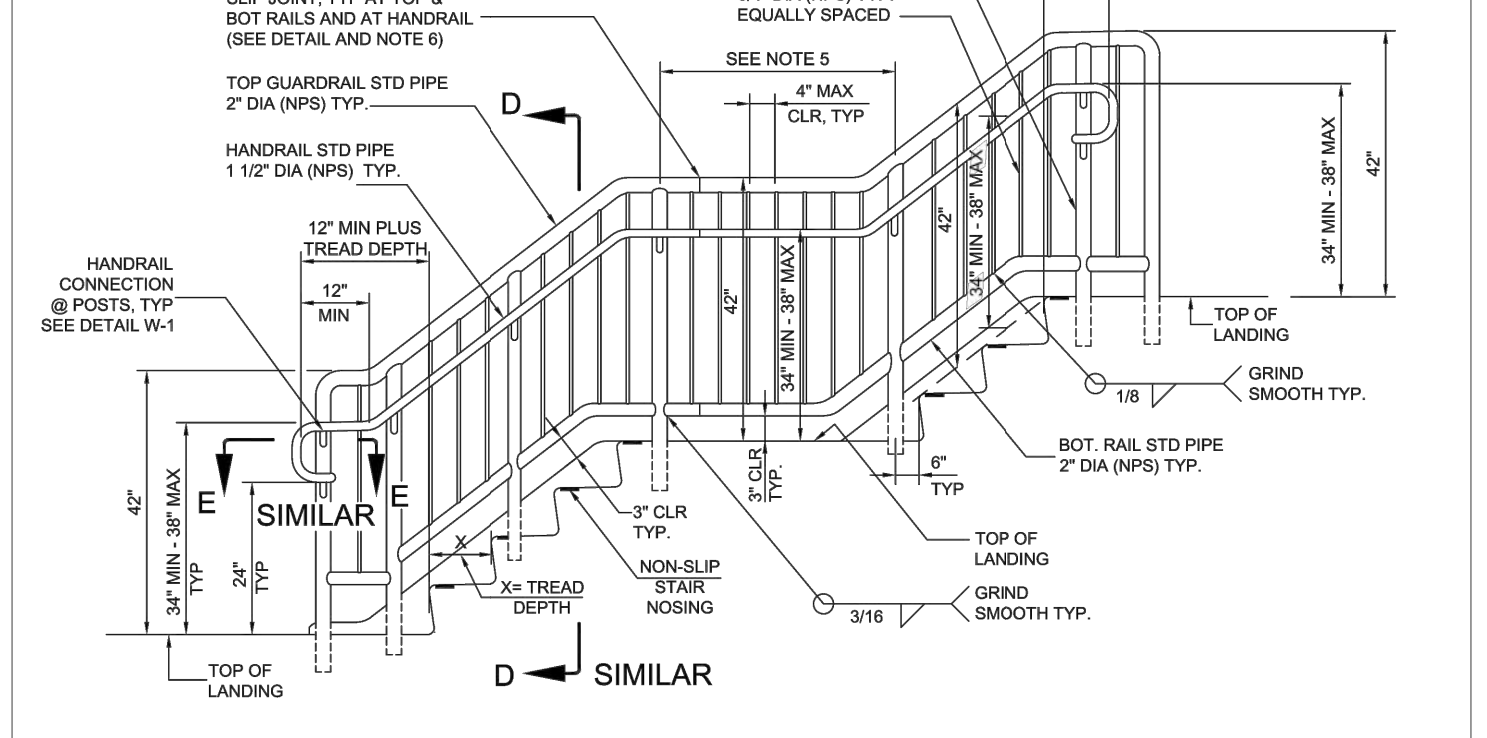
- NOTES & SPECIFICATIONS:**
- GRIND ALL WELDS SMOOTH. REMOVE ALL LOOSE MILL SCALE, RUST, OIL AND GREASE PRIOR TO PAINTING. ALL FENCING SHALL BE SHOP PRIMED AND PAINTED UNDER INSPECTION BY BUREAU OF CONTRACT ADMINISTRATION (PLANT INSPECTION).
- FASTENERS:**
- ALL FASTENERS SHALL BE HOT-DIPPED GALVANIZED STEEL OR STAINLESS STEEL, AND COATED WITH POLYESTER COATING AS SPECIFIED BELOW IF NOTED. ALL BOLTS AND NUTS SHALL BE TAMPER RESISTANT. DAMAGING OR ALTERING THREADS OF BOLTS OR SCREWS WILL NOT BE CONSIDERED TO BE TAMPER RESISTANT AND WILL NOT BE ALLOWABLE.
- COATINGS:**
- THE TUBULAR STEEL POSTS, GATE FRAME AND FENCE PANELS SHALL BE COATED WITH 1.5 OZ/SQ. FT. (460 GM²) ZINC IN CONFORMITY WITH ASTM A 123/A 123M STANDARD SPECIFICATION FOR ZINC (HOT DIP GALVANIZED) COATING ON IRON AND STEEL PRODUCTS, KNOWN AS GALVANIZED AFTER WELDING (GAW).
 - THE POLYESTER SURFACE COATING COLOR SHALL BE BLACK, RAL 9004. POLYESTER COATING TO BE MINIMUM 4 MILS APPLIED BY AN ELECTROSTATIC METHOD. COATING SHALL COVER ALL SURFACES OF THE FENCE, GATE AND POST SECTIONS. COATING SHALL BE CAPABLE OF WITHSTANDING THE FOLLOWING TESTS:
 - MECHANICAL ADHESION TEST AS PER ASTM D 3359 (1990) - METHOD B
 - SHOCK RESISTANCE TEST AS PER ASTM D 2794 (1990)
 - SALT SPRAY TESTING WITH A MIN. OF 1,000 HOURS WITHOUT RED RUST APPEARANCE, AS PER ASTM B 117 (1990)
 - HUMIDITY RESISTANCE IN A WEATHER METER CHAMBER AS PER ASTM D 2247 (1988)
 - EXPOSURE TO ULTRAVIOLET LIGHT WITH APPARATUS TYPE E AND 63°C AS PER ASTM D 1499

- INSTALLATION GENERAL:**
- STAKE LOCATIONS OF FENCE LINES, GATES, AND TERMINAL POSTS. DO NOT EXCEED INTERVALS OF 500 FEET OF LINE OF SIGHT BETWEEN STAKES. INDICATE LOCATIONS OF UTILITIES, LAWN SPRINKLER SYSTEM, UNDERGROUND STRUCTURES, BENCHMARKS, AND PROPERTY MONUMENTS.
 - INSTALL FENCING PER LOCATIONS INDICATED ON PLANS INSIDE PROPERTY LINE.
 - POST EXCAVATION: EXCAVATE HOLES FOR POSTS TO DIAMETERS, DEPTH AND SPACING INDICATED ON PLANS IN FIRM, UNDISTURBED OR COMPACTED SOILS PER DETAILS.
 - POST SETTING: SET POSTS IN CONCRETE FOOTINGS SO THAT POSTS ARE SET PLUMB, ALIGNED AND SET AT CORRECT HEIGHT AND SPACING. PLACE CONCRETE AROUND POSTS. HOLD POST IN POSITION DURING PLACEMENT AND FINISHING OPERATIONS UNTIL CONCRETE IS SUFFICIENTLY CURED.
 - EXPOSED FOOTING: SEE PLANS AND DETAILS.
- FENCE INSTALLATION:**
- TERMINAL POSTS: LOCATE TERMINAL END, CORNER, AND GATE POSTS AT CHANGES IN HORIZONTAL OR VERTICAL ALIGNMENT OF 15 DEGREES OR GREATER.
 - SQUARE POST INSTALLATION: AS INDICATED ON DRAWINGS.
 - INSTALL MESH TO PANELS WITH BRACKETS AT REQUIRED SPACING PER PLANS AND DETAILS. THE FENCE PANEL SHALL BE INSTALLED A DISTANCE OF A MINIMUM OF 1-1/4" IN. AND MAXIMUM OF 2 IN. ABOVE THE GROUND SURFACE. UPON CUTTING OR TRIMMING, A POST OR A WIRE MESH SECTION, APPLY ZINC RICH PRIMER TO THE EXPOSED ENDS AND FINISH WITH THE MATCHING TOUCH-UP PAINT SUPPLIED BY THE MFR.

- GATE INSTALLATION:**
- GATE POST INSTALLATION: PER PLAN AND DETAILS.
 - INSTALL GATES PERFECTLY HORIZONTAL AND LEVEL, PLUMB, AND SECURE FOR FULL OPENING WITHOUT INTERFERENCE UNLESS INDICATED ON DRAWINGS.
 - ATTACH HARDWARE TO HAVE THE NUTS INSIDE THE PROPERTY THUS MAKING THE ASSEMBLY TAMPER-PROOF WHICH WILL PREVENT UNAUTHORIZED REMOVAL.
 - INSTALL GROUND-SET ITEMS IN CONCRETE FOOTINGS FOR ANCHORAGE.
 - ADJUST HARDWARE FOR SMOOTH OPERATION AND LUBRICATE WHERE NECESSARY TO OPERATE SMOOTHLY, EASILY, AND QUIETLY, FREE FROM BINDING, WARP, EXCESSIVE DEFLECTION, DISTORTION, NONALIGNMENT, MISPLACEMENT, DISRUPTION, OR MALFUNCTION, THROUGHOUT THE ENTIRE OPERATIONAL RANGE. CONFIRM THAT LATCHES AND LOCKS ENGAGE ACCURATELY AND SECURELY WITHOUT FORCING OR BINDING.



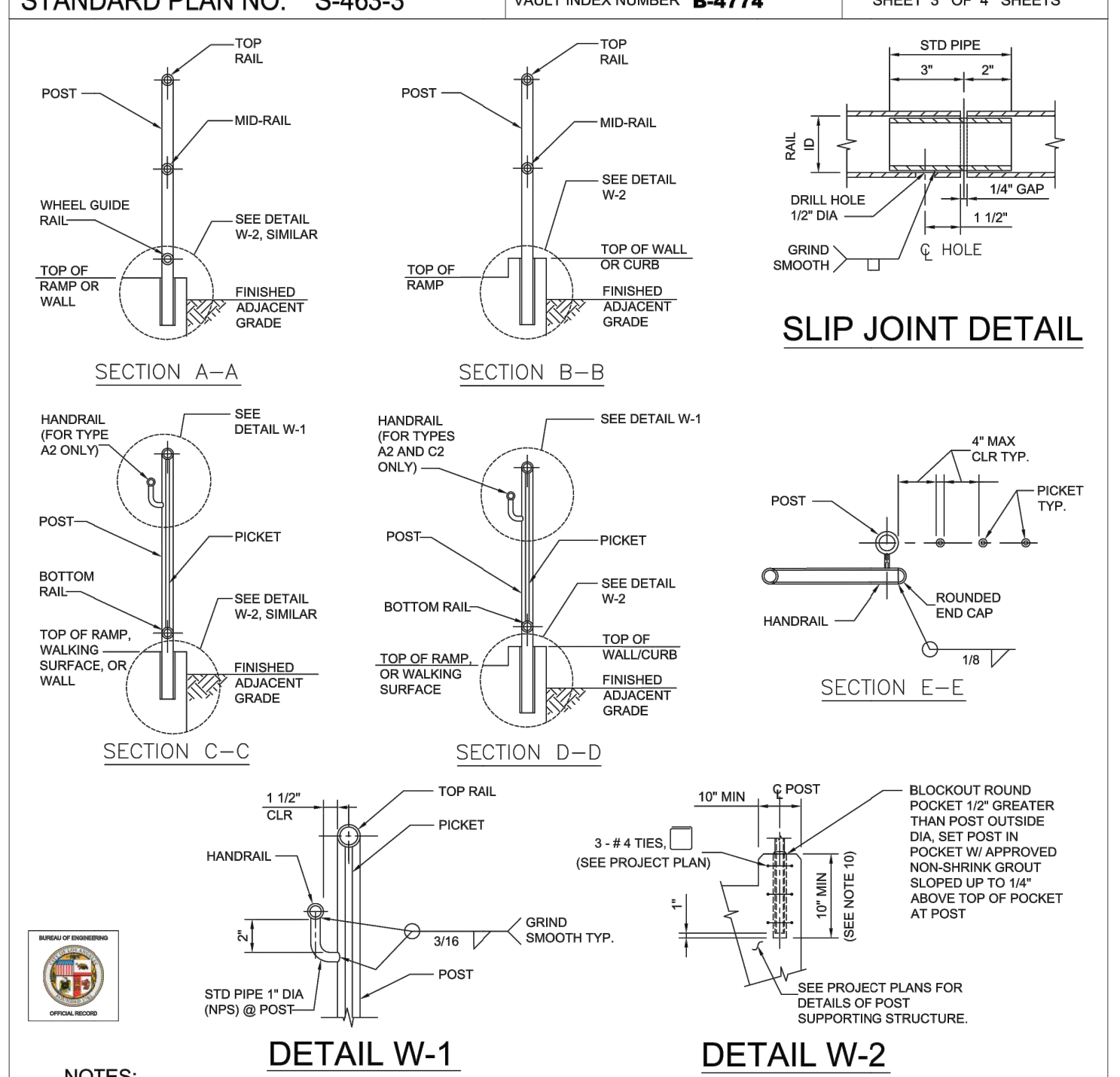
TYPE C1 - HANDRAIL ON STAIRWAYS LESS THAN 2'-6" ABOVE THE ADJACENT GRADE



TYPE C2 - GUARDRAIL AND HANDRAIL ON STAIRWAYS 2'-6" OR MORE ABOVE THE ADJACENT GRADE

HANDRAIL AND GUARDRAIL ON STAIRWAYS

STANDARD PLAN NO. S-463-3 VAULT INDEX NUMBER B-4774 SHEET 3 OF 4 SHEETS



- NOTES:**
- STRUCTURAL PIPES SHALL CONFORM TO ASTM A53, GRADE B (F_y=35 KSI) AND STRUCTURAL STEEL PLATE SHALL CONFORM TO ASTM A36. PIPE SIZES SHOWN ARE NOMINAL PIPE SIZE (NPS), THE ACTUAL OUTSIDE PIPE DIAMETER IS LARGER THAN THE DESIGNATED NPS.
 - STEEL SHALL BE FABRICATED AND ERECTED IN CONFORMANCE WITH THE LATEST AISC SPECIFICATIONS AND CODE OF STANDARD PRACTICE.
 - WELDING SHALL BE APPROVED E70XX ELECTRODES. WELDING SHALL CONFORM TO APPLICABLE AWS WELDING CODES, LATEST EDITION.
 - ALL STEEL STRUCTURAL COMPONENTS SHALL BE HOT-DIPPED GALVANIZED AFTER FABRICATION.
 - MAXIMUM SPACING OF POSTS SHALL BE 5 FEET ON STRAIGHT ALIGNMENTS AND 4 FEET ON CURVED ALIGNMENTS LESS THAN 30 FEET RADIUS. SPACING SHALL BE UNIFORM BETWEEN CHANGES IN ALIGNMENT.
 - PROVIDE SLIP JOINTS AT STAIRWAY AND RAMP EXPANSION JOINTS OR AT EVERY 24 FEET ON CENTER MAXIMUM.
 - ALL RAILS AND ANY ADJACENT SURFACES TO IT SHALL BE FREE OF ANY SHARP OR ABRASIVE ELEMENTS. EDGES SHALL HAVE A MINIMUM RADIUS OF 1/8 IN.
 - ALL FIELD WELDS AS REQUIRED SHALL BE GROUND SMOOTH. GALVANIZED COATING SHALL BE REPAIRED AFTER FIELD WELDING.
 - 90 DEGREE BEND RADIUS TO THE CENTER OF PIPE SHALL BE WITHIN TWO (2) TO THREE (3) TIMES OF NOMINAL DIAMETER OF THE PIPE.
 - SEE PROJECT PLANS FOR DETAILS OF POST SUPPORTING STRUCTURE.

- NOTES:**
- STRUCTURAL PIPES SHALL CONFORM TO ASTM A53, GRADE B (F_y=35 KSI) AND STRUCTURAL STEEL PLATE SHALL CONFORM TO ASTM A36. PIPE SIZES SHOWN ARE NOMINAL PIPE SIZE (NPS), THE ACTUAL OUTSIDE PIPE DIAMETER IS LARGER THAN THE DESIGNATED NPS.
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 - SEE PROJECT PLANS FOR DETAILS OF POST SUPPORTING STRUCTURE.

STANDARD PLAN NO. S-463-3 VAULT INDEX NUMBER B-4774 SHEET 4 OF 4 SHEETS

CITY OF LOS ANGELES DEPARTMENT OF PUBLIC WORKS BUREAU OF ENGINEERING



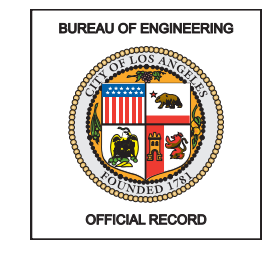
CLIENT: DEPARTMENT OF RECREATION & PARKS
GENERAL MANAGER: [Name]
SHEET TITLE: CONSTRUCTION DETAILS, SHEET 5
PROJECT: RIO DE LOS ANGELES STATE PARK FIELDS MAINTENANCE IMPROVEMENTS PROJECT
ADDRESS: 1900 WEST SAN FERNANDO ROAD, LOS ANGELES, CA, 90039

NO. [] REVISION DESCRIPTION [] DATE [] BY []

CIP NO. G1188
INDEX NO. RP-300125

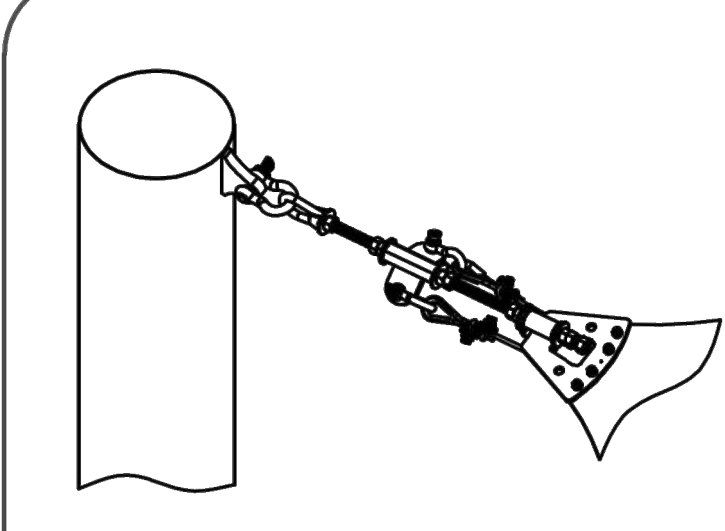
CITY ENGINEER: TED ALLEN, P.E., CITY ENGINEER
DESIGN GROUP: []
ENGINEER: []
ARCHITECT: RICHARD W. FISHER, LANDSCAPE ARCHITECT
DRAWN BY: ERNESTO GONZALEZ, LANDSCAPE ARCH. ASSOCIATE II
CHECKED BY: RICHARD W. FISHER, LANDSCAPE ARCHITECT
APPROVED BY: []
DATE: 7/13/2023

WORK ORDER NO. E1908951
FILE NO. 999
DRAWING NO. L411
SHEET 53 OF 100 SHEETS

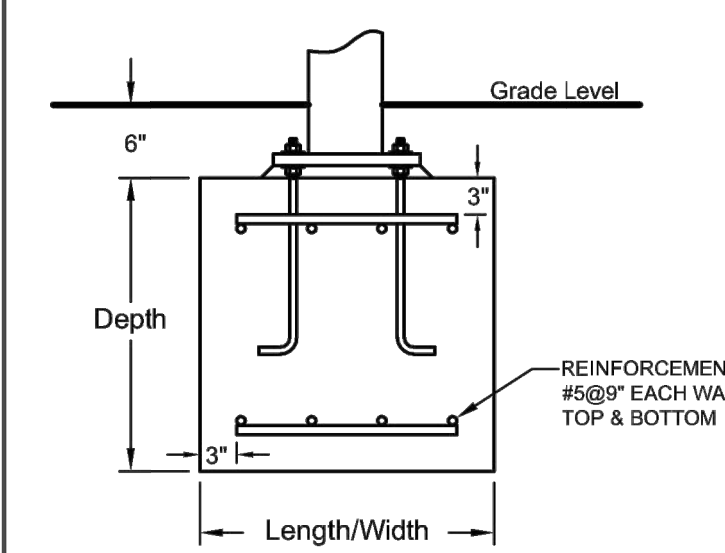
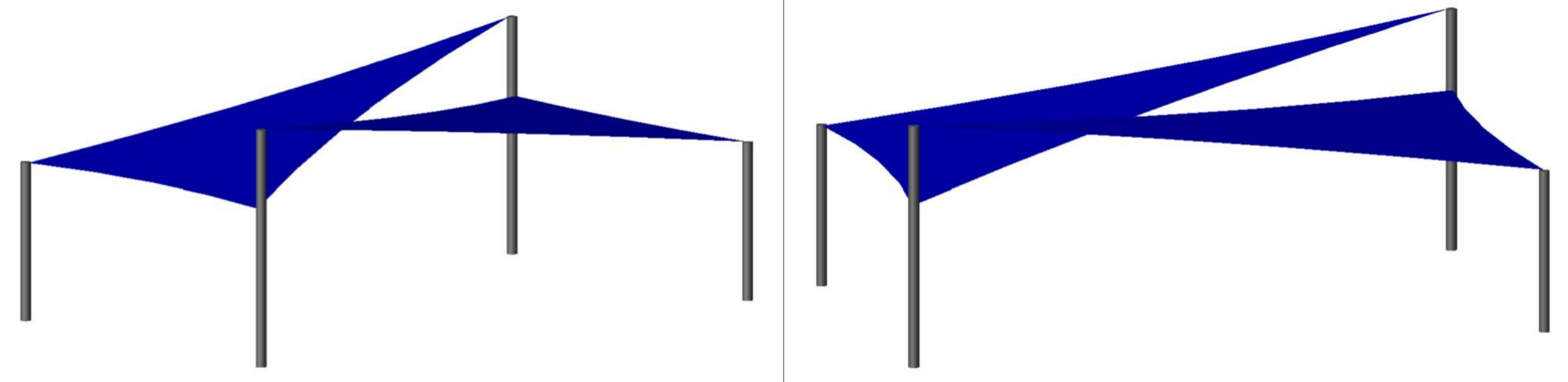


REVISION DATES (DESIGN STAGE ONLY)

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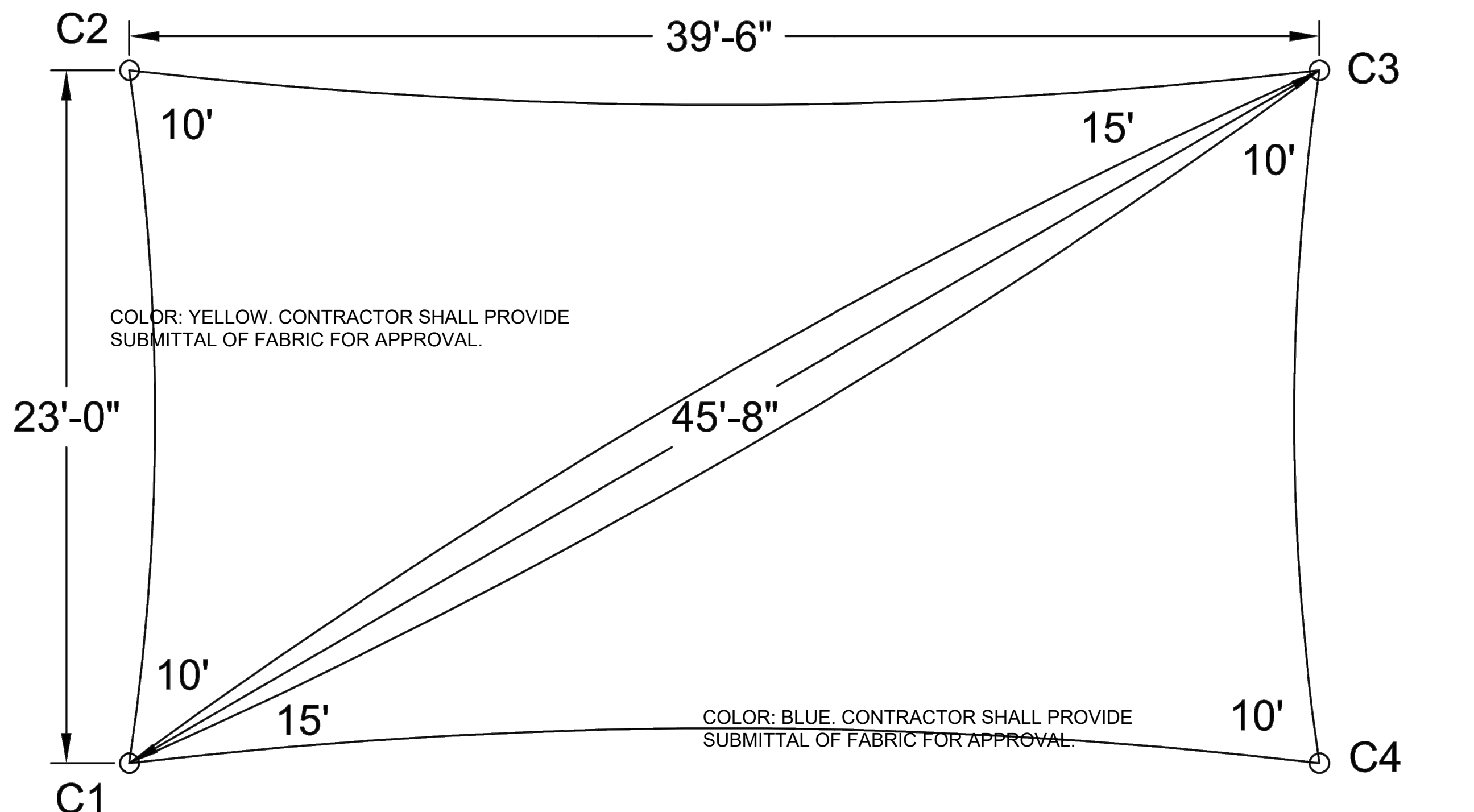
Fabric Connection



Footer Detail

FOUNDATION NOTE: ALL FOUNDATION SIZES ARE ESTIMATIONS ONLY. ACTUAL SIZING SHOULD BE DETERMINED BY A LOCALLY QUALIFIED STRUCTURAL ENGINEER PRIOR TO INSTALLATION.

Column ID	Column Size	Est. Footing Size
C1	10" Sch. 40	5.8' X 5.8' X 3.0'
C2	08" Sch. 40	3.4' X 3.4' X 3.0'
C3	10" Sch. 40	5.8' X 5.8' X 3.0'
C4	08" Sch. 40	3.4' X 3.4' X 3.0'
C5	N/A	N/A
C6	N/A	N/A
C7	N/A	N/A
C8	N/A	N/A
C9	N/A	N/A
C10	N/A	N/A



COLOR: YELLOW. CONTRACTOR SHALL PROVIDE SUBMITTAL OF FABRIC FOR APPROVAL.

COLOR: BLUE. CONTRACTOR SHALL PROVIDE SUBMITTAL OF FABRIC FOR APPROVAL.

PROJECT NAME
Rio De Los Angeles Park

QUOTE
QUO0250879

TITLE
Proposal

DATE
10/18/2022

SCALE
Not to Scale

DRAWN BY
TAB

SHEET
1 of 1

These drawings are for reference only and should not be used as construction details. They show the general character and rough dimensions of the structural features. Superior Recreation Products is not responsible for deviation of final shade dimensions. All final dimensions must be verified in the field by the customer. Exact spans, fasteners, materials, and foundations can be determined by a licensed professional engineer upon request.

NOTE: CONTRACTOR SHALL OBTAIN AN INSTALLATION PERMIT FOR THE SHADE STRUCTURE, INCLUDING PROVIDING ALL NECESSARY DRAWINGS, DETAILS AND SUPPORTING CALCULATIONS. CITY SHALL PROVIDE THE APPROVED PROJECT PLAN SET WITH THE CLEARANCES TO FACILITATE PERMIT APPROVAL. PERMIT FEES PAID BY THE CONTRACTOR SHALL BE REIMBURSED BY THE CITY.

D1	PICNIC AREA SHADE STRUCTURE
N.T.S.	

FLAME RETARDANT
Fabric Registration
LICENSE NUMBER: F-094501
EXTRA BLOCK SHADECLOTH

Issue Date : 06/01/2022
Expiration Date : 06/30/2023

This product meets the minimum requirements of flame resistance established by the California State Fire Marshal for products identified in Section 13115, California Health and Safety Code. The scope of the approved use of this product is provided in the current edition of the CAL FIRE Fabric Registration Manual. THIS PRODUCT IS NOT TO BE USED FOR APPLICATIONS CONCERNING FABRICS, GENERAL AND LIMITED APPLICATIONS CONCERNS published by the California State Fire Marshal.

Product Marketed by:
ALNET PTY (LTD)
MOORSON AVENUE, EPPING, INDUSTRY '11
CAPE TOWN, S. AFRICA.

Reviewed and Approved by Patricia Satter
Deputy State Fire Marshal III
Fire Engineering & Investigations Division

OFFICE OF THE STATE FIRE MARSHAL
Please visit calfire.gov/marshals.org for more information on Licensing and Permitting with CAL FIRE

96-D Allen Boulevard
Farmingdale, New York 11735-0620 USA
Tel: (516) 720-6866
e-mail: testing@govmark.com

Page 2

Client's Identification
Style: Eneback Forest Green.

Test Report #: 3-25901-0-475

Tested For: **Bernard Semakal**
Alnet (PTY) Ltd.
Moorsom Ave, Epping 2
Cape Town, 7400, South Africa
Tel: 011 27 21 530 2400 Fax:

Key Test: NFPA 701-2013 TM62 Flat

PRECOMBUSTIONING: [] 1 hr @ 220° (Standard)
[x] 24 hr @ 660°F (Alternate: Material shrinks/dilates @ 220°F)

REMARKS: None.

CONVERSION FACTORS:
1 m = 39.37 in
1 g/m² = 0.149 oz/yd²

CONFIRMATION: I certify that the above results were obtained after testing specimens in accordance with the procedures and equipment specified above.

Bobby Brown
 AUTHORIZED SIGNATURE / Ac
 MAY 08 2018
 (Page 2 of 2)

File Copy

96-D Allen Boulevard
Farmingdale, New York 11735-0620 USA
Tel: (516) 720-6866
e-mail: testing@govmark.com

Page 1

Client's Identification
Style: Eneback Forest Green.

Test Report #: 3-25901-0-475

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Alnet (PTY) Ltd.
Moorsom Ave, Epping 2
Cape Town, 7400, South Africa
Tel: 011 27 21 530 2400 Fax:

Key Test: NFPA 701-2013 TM62 Flat

TEST PROTOCOL: NFPA 701 - Standard Methods of Fire Tests for Flame Propagation of Textiles and Films - 2013 Edition - Test Method #2 - Flat Sheet Specimens

SPERMINE CONFIGURATION: [x] Single layer; [] Multi Layer

RESULTS REPORTED: [x] Initially 100% char length [] After 72 hours water leaching
[] After 300 hours accelerated weathering [] After 5 standard days @ 160°F

Specimen #	Afterflame (seconds)	Drip Burn (seconds)	Char Length (mm)
1	0	0	221
2	0	0	261
3	0	0	265
4	0	0	197
5	0	0	198
6	0	0	203
7	0	0	212
8	0	0	136
9	0	0	
10	0	0	

APPROXIMATE WEIGHT OF MATERIAL (as measured by Govmark): 286 g/m²

FAILURE CRITERIA: For each individual specimen: ---
Afterflame Exceeds 2.0 seconds Exceeds 435 mm (17.1")

TEST PROVISIONS: Test 5 additional specimens if only 1 specimen fails.

CONCLUSION: Based on the above Results and Failure Criteria, the item tested:
[x] Passes; [] Fails; [] Requires testing of 5 additional specimens

(Page 1 of 2)
File Copy

CITY OF LOS ANGELES DEPARTMENT OF PUBLIC WORKS BUREAU OF ENGINEERING

CLIENT: DEPARTMENT OF RECREATION & PARKS
GENERAL MANAGER: _____
SHEET TITLE: PICNIC AREA SHADE STRUCTURE DETAILS
PROJECT: RIO DE LOS ANGELES STATE PARK FIELDS MAINTENANCE IMPROVEMENTS PROJECT
ADDRESS: 1900 WEST SAN FERNANDO ROAD, LOS ANGELES, CA, 90039

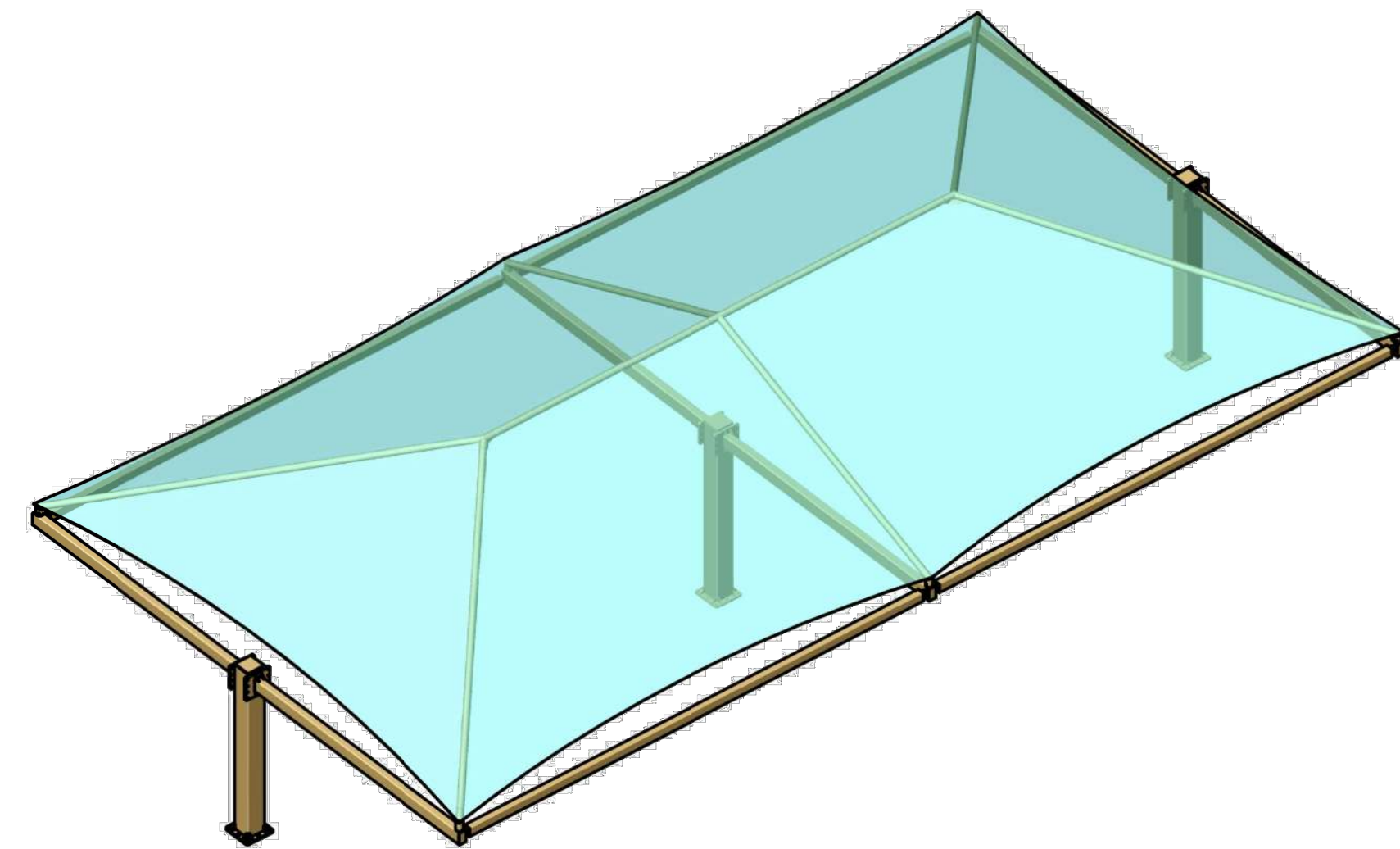
INDEX NO. **RP-300125** CIP NO. **G1188**

THIS PLAN WAS ELECTRONICALLY SIGNED AND STAMPED

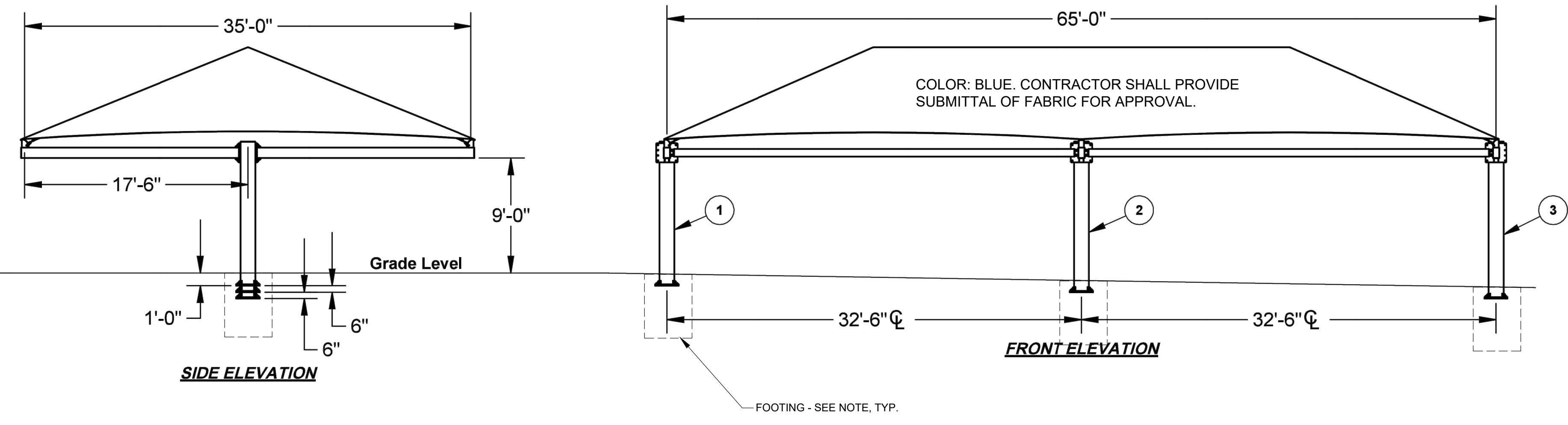
WORK ORDER NO. **E1908951**
FILE NO. **999**
DRAWING NO. **L412**
SHEET **54** OF 100 SHEETS

REVISION DATES (DESIGN STAGE ONLY)

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

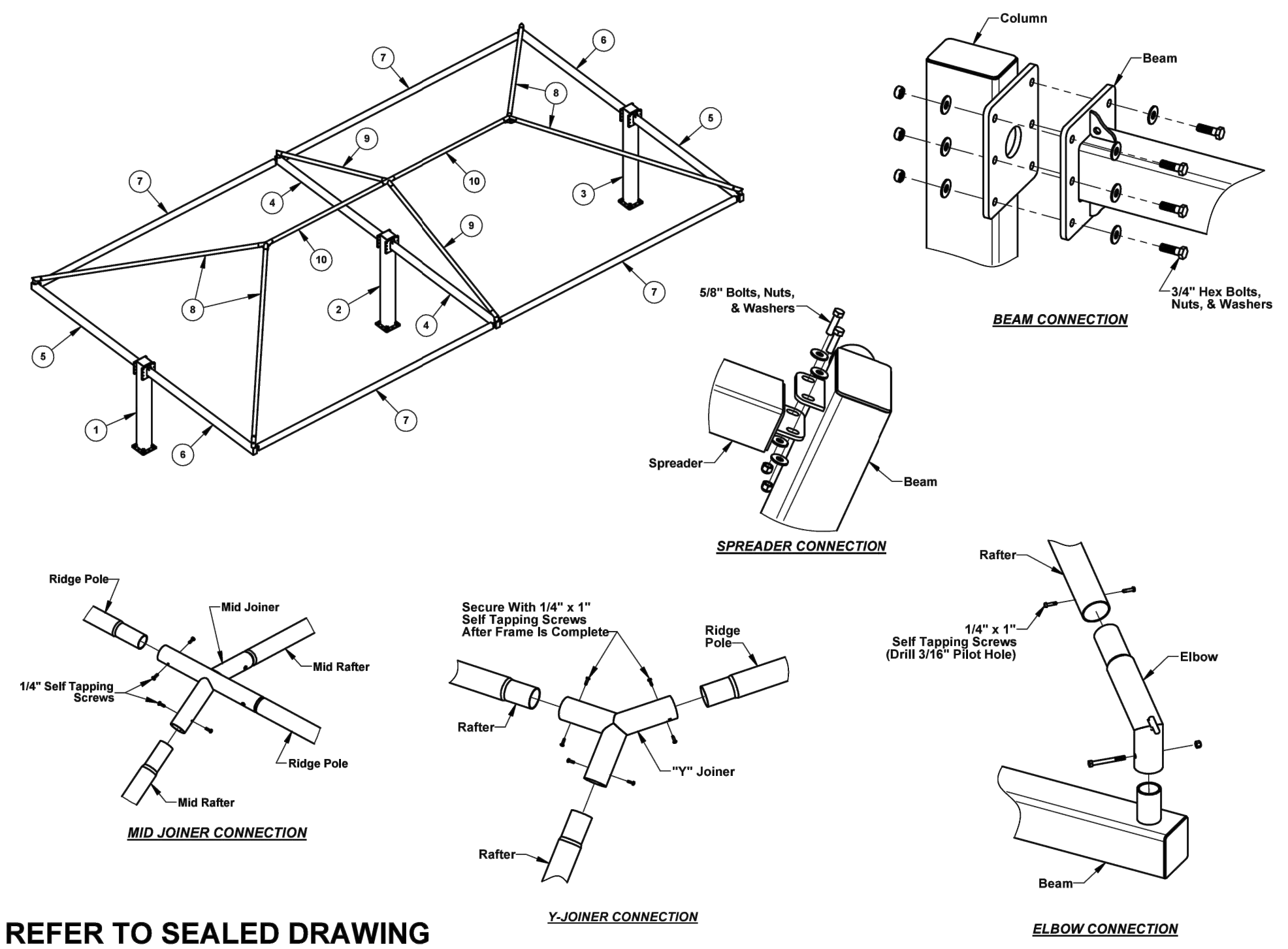


ITEM NO.	PART NUMBER	DESCRIPTION	QTY.
1	PSA-6821XX	Column - 14" x 14" x 135 1/2" w/ Flanges & Base Plate	1
2	PSA-6822XX	Column - 14" x 14" x 141 1/2" w/ Flanges & Base Plate	1
3	PSA-6823XX	Column - 14" x 14" x 147 1/2" w/ Flanges & Base Plate	1
4	AFB-36634XX	Beam - Middle - 10" x 6" x 205 1/2" w/ Flange & 4 1/2" Cap & Brackets	2
5	AFB-36635XX	Beam - Right - 10" x 6" x 205 1/2" w/ Flange & 4 1/2" Cap & Bracket	2
6	AFB-36633XX	Beam - Left - 10" x 6" x 205 1/2" w/ Flange & 4 1/2" Cap & Bracket	2
7	AFB-36637XX	Spreader - 5" x 7" x 383" w/ Slotted Tabs	4
8	FAB-RA-5007-285_00XX	Rafter - Swaged Ø5" 7-Gauge x 285" (Coated)	4
9	AFB-RA-5007-213_00XX	Rafter - Swaged Ø5" 7-Gauge x 213" (Coated)	2
10	FAB-RI-5007-185_50XX	Ridge - Swaged Both Ends Ø5" 7-Gauge x 185 1/2" (Coated)	2
11	CEL50007XX	Wdmt. - 5" OD 16 1/2 Degree Elbow	4
12	MEL50007	Wdmt. - 5" OD x 22 Deg. Standard Elbow	2
13	YAN50007XX	Wdmt. - 5" OD "Y" Rect. Connect	2
14	AFB46238XX	Wdmt. - 5" OD x 22 Degree Joiner	1
15	FABRCSO0189804	Fabric - 65' x 35' Hip, w/ Mid Connections, No Glide	1



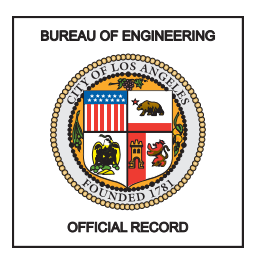
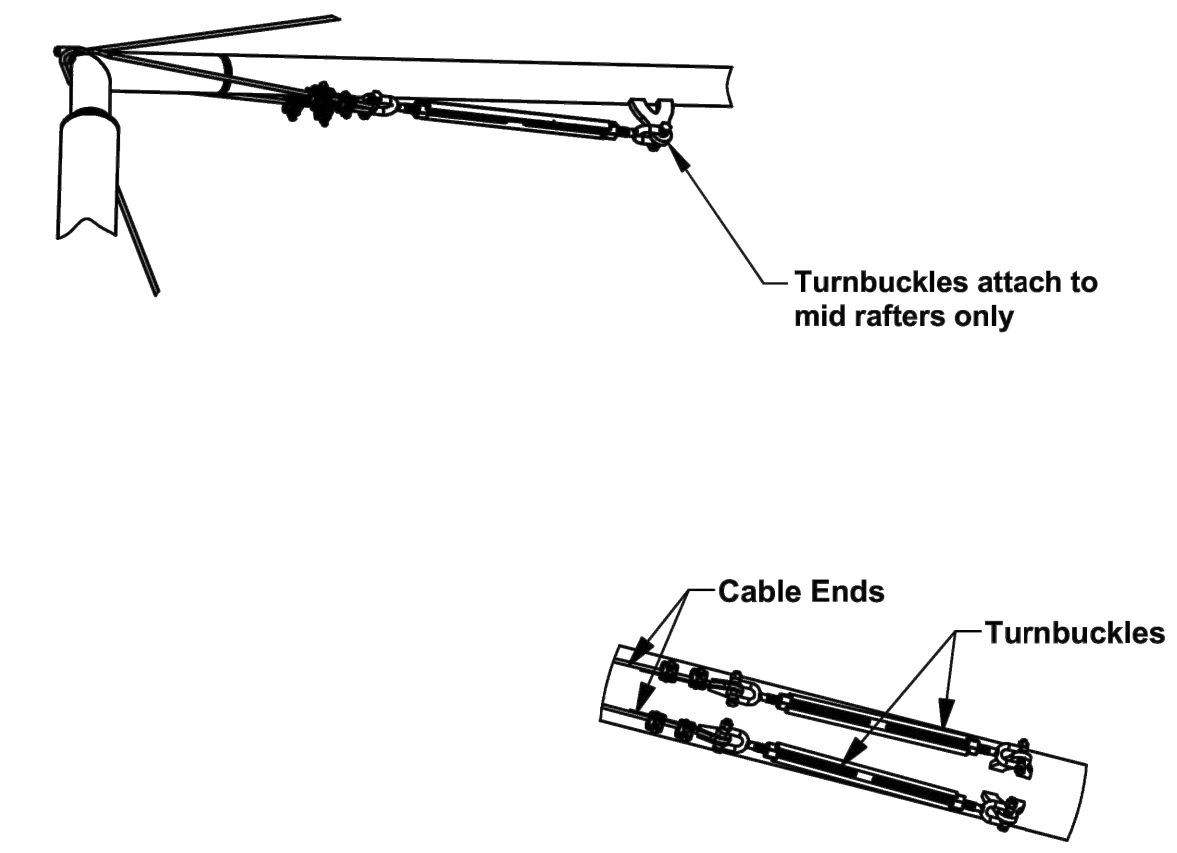
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D1	BLEACHER SHADE STRUCTURE
N.T.S.	



REFER TO SEALED DRAWING FOR FOOTING DETAILS

NOTE: Cable ends will exit fabric hems, wrap around elbow leg from opposite sides, run along underside of rafter, and connect to turnbuckles.



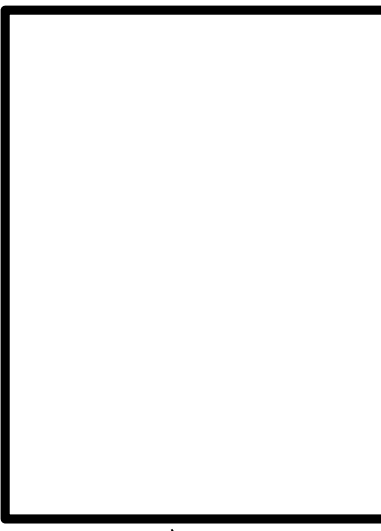
CITY OF LOS ANGELES DEPARTMENT OF PUBLIC WORKS BUREAU OF ENGINEERING

CLIENT: DEPARTMENT OF RECREATION & PARKS
GENERAL MANAGER: [Name]
SHEET TITLE: BLEACHERS SHADE STRUCTURE DETAILS
PROJECT: RIO DE LOS ANGELES STATE PARK FIELDS MAINTENANCE IMPROVEMENTS PROJECT
ADDRESS: 1900 WEST SAN FERNANDO ROAD, LOS ANGELES, CA, 90039

NO. [] REVISION DESCRIPTION [] DATE [] BY []

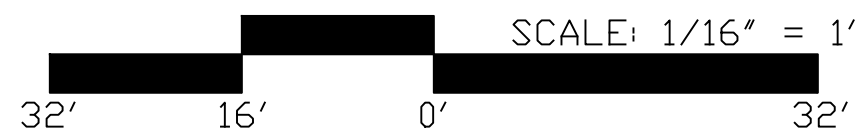
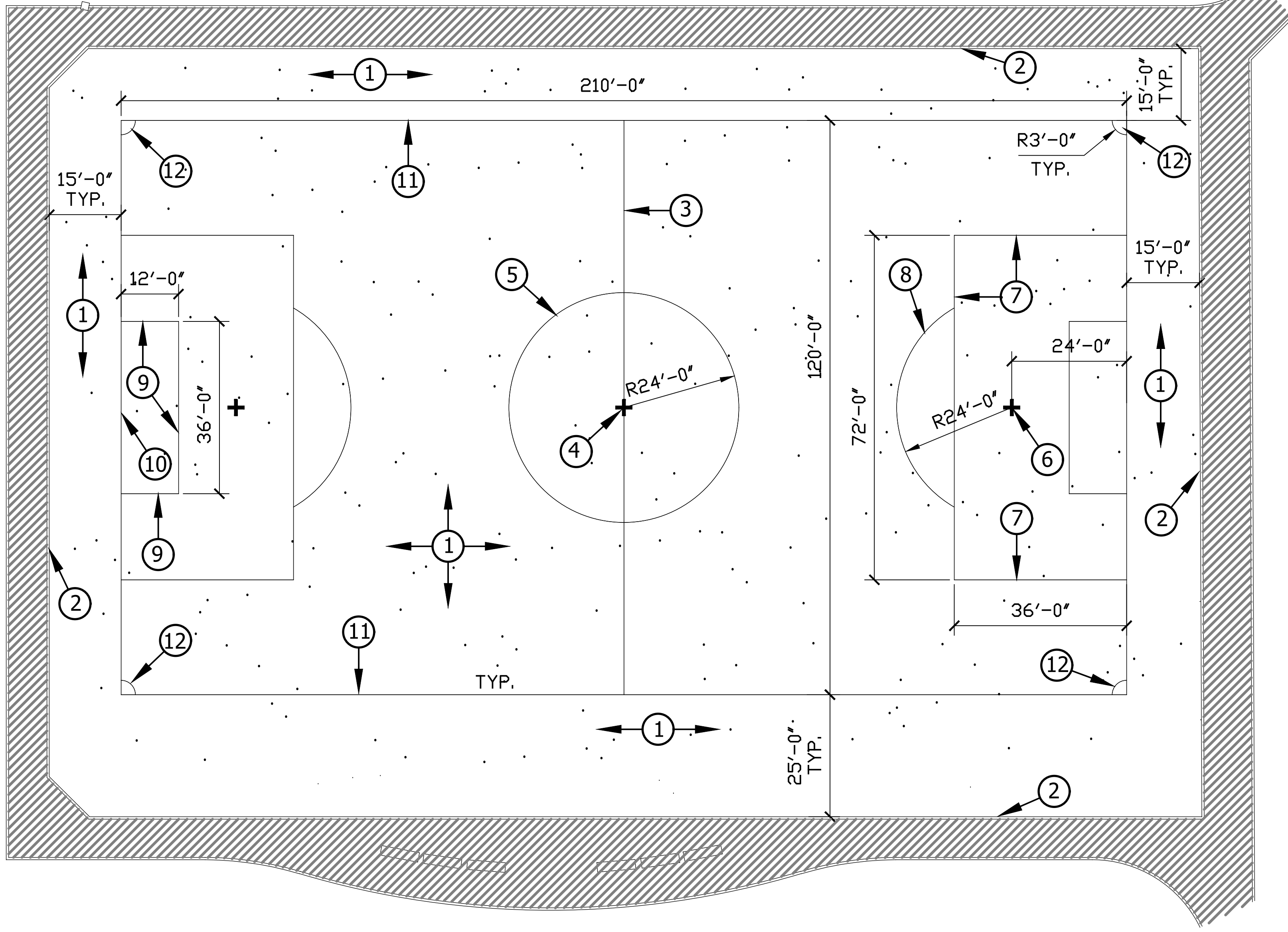
ENGINEER: TED ALLEN, P.E., CITY ENGINEER
ARCHITECT: RICHARD W. FISHER, LANDSCAPE ARCHITECT I
DESIGNED BY: RICHARD W. FISHER, LANDSCAPE ARCHITECT I
DRAWN BY: ERNESTO GONZALEZ, LANDSCAPE ARCH. ASSOCIATE II
CHECKED BY: RICHARD W. FISHER, LANDSCAPE ARCHITECT I
APPROVED BY: []

WORK ORDER NO. E1908951
FILE NO. 999
DRAWING NO. L413
SHEET 55 of 100 SHEETS



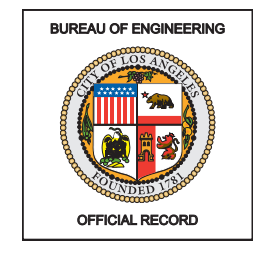
REVISION DATES (DESIGN STAGE ONLY)
L
K
J
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F
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A

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SYNTHETIC SOCCER FIELD STANDARD PLAN (FIELD #8)

FIELD SIZE 120' X 210'

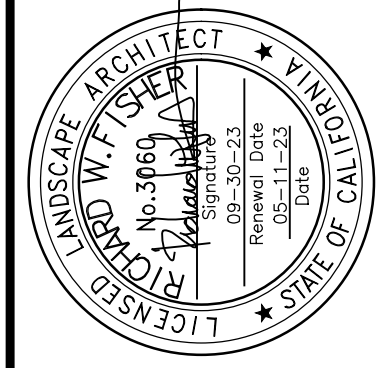


LEGEND:

- ① 120'X210' SYNTHETIC TURF FIELD WITH SYNTHETIC TURF BUFFER ON ALL 4 SIDES, REFER PLAN FOR DIMENSIONS.
- ② CONCRETE PERIMETER CURB AND SYNTHETIC TURF EDGE TREATMENT, SEE DETAIL A5 SHEET L405, UNLESS NOTED OTHERWISE.
- ③ HALFWAY LINE, COLOR: WHITE, 4" WIDE.
- ④ CENTER CIRCLE MARK, COLOR: WHITE, 4" WIDE.
- ⑤ CENTER CIRCLE, COLOR: WHITE, 4" WIDE.
- ⑥ PENALTY MARK, COLOR: WHITE, 4" WIDE.
- ⑦ PENALTY BOX LINE, COLOR: WHITE, 4" WIDE.
- ⑧ PENALTY ARC, COLOR: WHITE, 4" WIDE.
- ⑨ GOAL BOX LINE, COLOR: WHITE, 4" WIDE.
- ⑩ GOAL LINE, COLOR: WHITE, 4" WIDE.
- ⑪ SIDE LINE, COLOR: WHITE, 4" WIDE.
- ⑫ CORNER ARC, COLOR: WHITE, 4" WIDE.

NOTES:

1. CONTRACTOR IS RESPONSIBLE FOR OBTAINING GRADING PERMITS FROM LOS ANGELES DEPARTMENT OF BUILDING AND SAFETY.
2. SUB-BASE DRAINAGE, INCLUDING TRENCHES AND ATTACHMENT OF TURF TO CONCRETE CURB ARE TO BE INSTALLED PER MANUFACTURER'S DETAILS AND SPECIFICATIONS.
3. CONTRACTOR TO SUBMIT MFR. SHOP DRAWINGS, DETAILS AND MATERIALS TO PROJECT MANAGER FOR APPROVAL PRIOR TO INSTALLATION.



BUREAU OF ENGINEERING
 CLIENT: DEPARTMENT OF RECREATION & PARKS
 GENERAL MANAGER:
 SHEET TITLE: 120' X 210' SYNTHETIC SOCCER FIELD PLAN (FIELD #8)
 PROJECT: RIO DE LOS ANGELES STATE PARK FIELDS MAINTENANCE IMPROVEMENTS PROJECT
 ADDRESS: 1900 WEST SAN FERNANDO ROAD, LOS ANGELES, CA, 90039

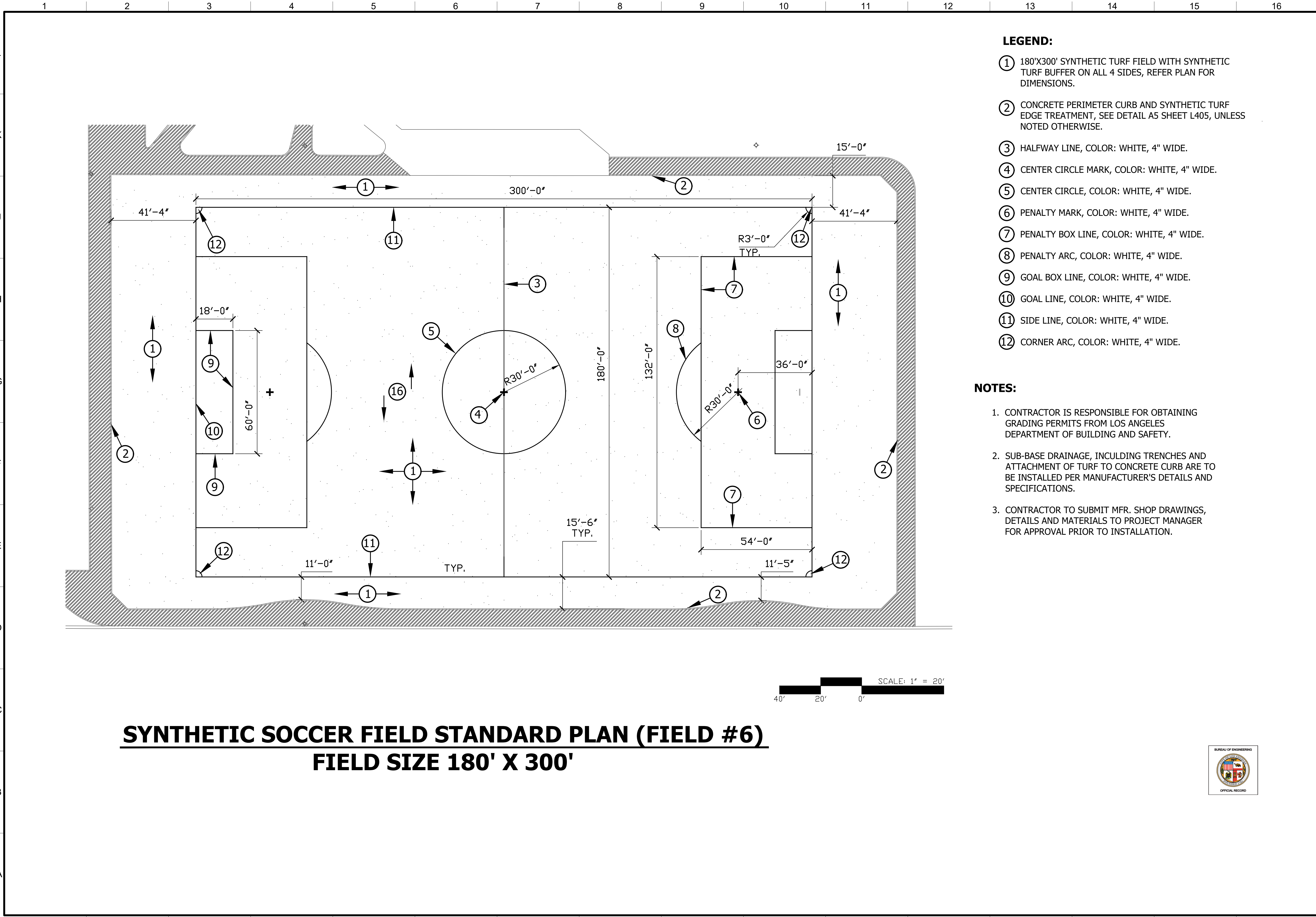
DEPARTMENT OF PUBLIC WORKS
 INDEX NO. **RP-300125**
 CIP NO. **G1188**

CITY OF LOS ANGELES
 DESIGNER: TED ALLEN, P.E., CITY ENGINEER
 DESIGN GROUP:
 ARCHITECT: RICHARD W. FISHER, LANDSCAPE ARCHITECT I
 ARCHITECT: ERNESTO GONZALEZ, LANDSCAPE ARCH. ASSOCIATE II
 DRAWN BY: RICHARD W. FISHER, LANDSCAPE ARCHITECT I
 CHECKED BY: RICHARD W. FISHER, LANDSCAPE ARCHITECT I
 APPROVED BY:
 CITY ENGINEER DATE: 7/13/2023

WORK ORDER NO. **E1908951**
 FILE NO. **999**
 DRAWING NO. **L414**
 SHEET **56** OF 100 SHEETS

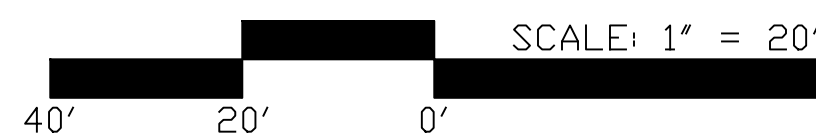
REVISION DATES (DESIGN STAGE ONLY)

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



SYNTHETIC SOCCER FIELD STANDARD PLAN (FIELD #6)

FIELD SIZE 180' X 300'

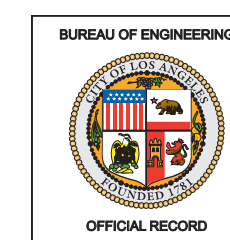


LEGEND:

- ① 180'X300' SYNTHETIC TURF FIELD WITH SYNTHETIC TURF BUFFER ON ALL 4 SIDES, REFER PLAN FOR DIMENSIONS.
- ② CONCRETE PERIMETER CURB AND SYNTHETIC TURF EDGE TREATMENT, SEE DETAIL A5 SHEET L405, UNLESS NOTED OTHERWISE.
- ③ HALFWAY LINE, COLOR: WHITE, 4" WIDE.
- ④ CENTER CIRCLE MARK, COLOR: WHITE, 4" WIDE.
- ⑤ CENTER CIRCLE, COLOR: WHITE, 4" WIDE.
- ⑥ PENALTY MARK, COLOR: WHITE, 4" WIDE.
- ⑦ PENALTY BOX LINE, COLOR: WHITE, 4" WIDE.
- ⑧ PENALTY ARC, COLOR: WHITE, 4" WIDE.
- ⑨ GOAL BOX LINE, COLOR: WHITE, 4" WIDE.
- ⑩ GOAL LINE, COLOR: WHITE, 4" WIDE.
- ⑪ SIDE LINE, COLOR: WHITE, 4" WIDE.
- ⑫ CORNER ARC, COLOR: WHITE, 4" WIDE.

NOTES:

1. CONTRACTOR IS RESPONSIBLE FOR OBTAINING GRADING PERMITS FROM LOS ANGELES DEPARTMENT OF BUILDING AND SAFETY.
2. SUB-BASE DRAINAGE, INCLUDING TRENCHES AND ATTACHMENT OF TURF TO CONCRETE CURB ARE TO BE INSTALLED PER MANUFACTURER'S DETAILS AND SPECIFICATIONS.
3. CONTRACTOR TO SUBMIT MFR. SHOP DRAWINGS, DETAILS AND MATERIALS TO PROJECT MANAGER FOR APPROVAL PRIOR TO INSTALLATION.



CLIENT: DEPARTMENT OF RECREATION & PARKS

GENERAL MANAGER: [Blank]

SHEET TITLE: 180' X 300' SYNTHETIC SOCCER FIELD PLAN (FIELD #6)

PROJECT: RIO DE LOS ANGELES STATE PARK FIELDS MAINTENANCE IMPROVEMENTS PROJECT

ADDRESS: 1900 WEST SAN FERNANDO ROAD, LOS ANGELES, CA, 90039

INDEX NO. RP-300125

CIP NO. G1188

ENGINEER: TED ALLEN, P.E., CITY ENGINEER

DESIGNED BY: RICHARD W. FISHER, LANDSCAPE ARCHITECT I

DRAWN BY: ERNESTO GONZALEZ, LANDSCAPE ARCH. ASSOCIATE II

CHECKED BY: RICHARD W. FISHER, LANDSCAPE ARCHITECT I

APPROVED BY: [Blank]

DATE: [Blank]

DATE: 6/14/2023

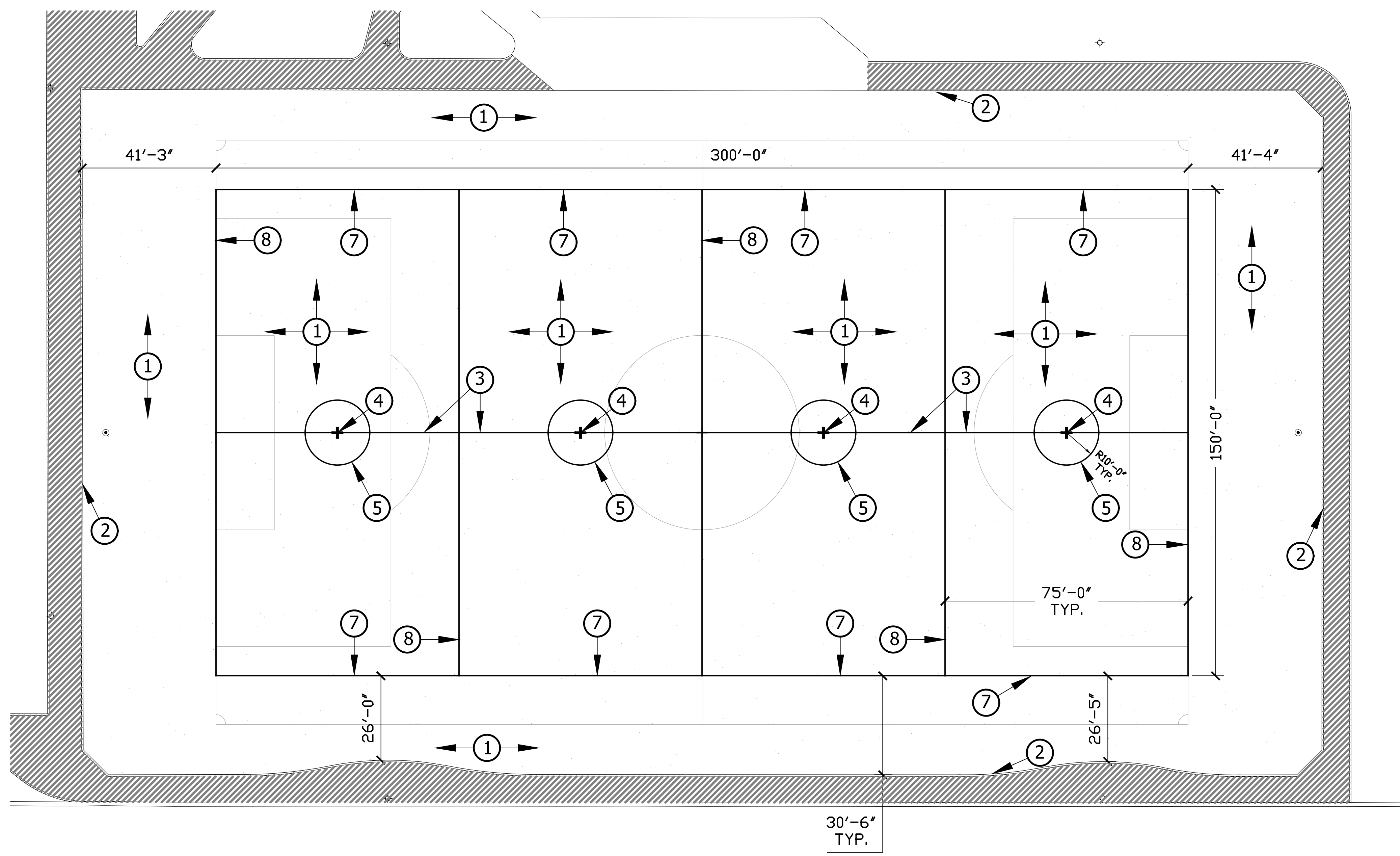
WORK ORDER NO. E1908951

FILE NO. 999

DRAWING NO. L415-S

SHEET 57 OF 100 SHEETS

REVISION DATES (DESIGN STAGE ONLY)

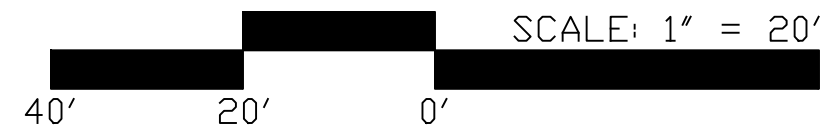


LEGEND:

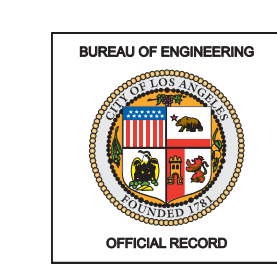
- ① 75'X150' SYNTHETIC TURF FIELD WITH SYNTHETIC TURF BUFFER ON ALL 4 SIDES, REFER TO SPECIFICATIONS FOR INSTALLATION.
- ② CONCRETE PERIMETER CURB AND SYNTHETIC TURF EDGE TREATMENT, SEE DETAILS A5, SHEET L407, UNLESS NOTED OTHERWISE.
- ③ HALFWAY LINE, COLOR: WHITE, 4" WIDE.
- ④ CENTER CIRCLE MARK, COLOR: WHITE, 4" WIDE.
- ⑤ CENTER CIRCLE, COLOR: WHITE, 4" WIDE.
- ⑥ NOT USED
- ⑦ GOAL LINE, COLOR: WHITE, 4" WIDE.
- ⑧ SIDE LINE, COLOR: WHITE, 4" WIDE.

NOTES:

1. CONTRACTOR IS RESPONSIBLE FOR OBTAINING GRADING PERMITS FROM LOS ANGELES DEPARTMENT OF BUILDING AND SAFETY.
2. SUB-BASE DRAINAGE, INCLUDING TRENCHES AND ATTACHMENT OF TURF TO CONCRETE CURB ARE TO BE INSTALLED PER MANUFACTURER'S DETAILS AND SPECIFICATIONS.
3. CONTRACTOR TO SUBMIT MFR. SHOP DRAWINGS, DETAILS AND MATERIALS TO PROJECT MANAGER FOR APPROVAL PRIOR TO INSTALLATION.



SYNTHETIC SOCCER FIELD STANDARD PLAN (FIELD #6)
FIELD SIZE 75' X 150'



ENGINEERING
CITY OF LOS ANGELES

THIS PLAN WAS ELECTRONICALLY SIGNED AND STAMPED

BUREAU OF ENGINEERING

CLIENT: DEPARTMENT OF RECREATION & PARKS
GENERAL MANAGER:

SHEET TITLE: 75' x 150' SYNTHETIC SOCCER FIELD PLAN
PROJECT: RIO DE LOS ANGELES STATE PARK FIELDS MAINTENANCE IMPROVEMENTS PROJECT
ADDRESS: 1900 WEST SAN FERNANDO ROAD, LOS ANGELES, CA. 90039

INDEX NO. **RP-300125**

CIP NO. **G1188**

NO.	REVISION DESCRIPTION	DATE	BY

CITY ENGINEER	DATE:	6/14/2023
DESIGN GROUP		
ENGINEER: TED ALLEN, P.E., CITY ENGINEER		
ARCHITECT: RICHARD W. FISHER, LANDSCAPE ARCHITECT I		
DESIGNED BY: ERNESTO GONZALEZ, LANDSCAPE ARCH. ASSOCIATE II		
DRAWN BY: RICHARD W. FISHER, LANDSCAPE ARCHITECT I		
CHECKED BY: RICHARD W. FISHER, LANDSCAPE ARCHITECT I		
APPROVED BY:		

WORK ORDER NO. **E1908951**

FILE NO. **999**

DRAWING NO. **L415-F**

SHEET **58** OF 100 SHEETS

CITY OF LOS ANGELES / DEPARTMENT OF RECREATION AND PARKS
ALL-WEATHER TURF SPECIFICATION

ALL-WEATHER TURF AND SUB-BASE DRAINAGE
(REVISION DATE 07/15/2019)

SECTION A: Sub-Grade Foundation and Drainage

PART I: GENERAL

A. DEFINITION

1. This section defines requirements for the materials, installation, and operating performance of a sub-grade foundation and drainage system needed for a professional-grade All-weather turf field. Defined are the primary system requirements for insuring vertical and dimensional stability of the soil and adequate storm drainage of the playing surface.

B. STANDARDS

1. All specifications listed are defined per applicable ASTM standard test methods, unless no ASTM standard exists. All other specifications and tolerances listed shall be defined under standard ANSI and/or ISO drawing and specification rules.

Note: This specification requires installation of a continuous foundation-grade concrete curb around the entire perimeter of the athletic field. A formed top ledge or side-mounted composite header (2' x 4') is required for All-weather turf attachment.

PART II: MATERIALS

A. FIELD SOIL ISOLATION FABRIC

1. A non-permeable membrane is recommended for all soils: Drainage properties of the selected non-permeable fabric shall be 0.010 gallons per minute per square-foot maximum (ASTM D4491). Mirafi 550X fabric or approved equal. All non-permeable membrane must be in rolls that are workable and controlled to have 0 wrinkling underneath pad system. At no-time will large pieces of fabric be acceptable at any time.

2. The installed fabric/liner at no time will any punchers be acceptable. No nailing during fabric/liner installation, stapling or cutting of material is acceptable. This also includes turf and pad installation, at no-time will nails being driven thru the pad, turf and infill system is not allowed at any time.

3. All soil isolation fabric shall be 100% flat to the surface with no wrinkling. Any wrinkling larger than 5mm is not acceptable.

4. Any soil isolation fabric nailed, stapled, damaged in any way will be replaced by contractor.

B. TRENCH SOIL ISOLATION FABRIC

1. The soil isolation fabric is a polypropylene-based material with a minimum gage weight of five (5) Oz/yd2. Minimum permeability is 130 gallons/minute/square foot, Mirafi 180N, or approved equal. A non-permeable membrane may be recommended under specific site conditions - see plans to verify.

C. PERIMETER DRAINAGE COLLECTOR PIPE

1. Drainage piping is a perforated HDPE pipe, diameter specified on plans.

D. PERIMETER CURB

1. A continuous foundation grade curbing of 3000 psi concrete shall be installed along the entire perimeter of the All-weather field. See plans for curb dimensions.

SECTION B: STABILIZED SOIL BASE COURSE

PART I: GENERAL

A. DESCRIPTION OF WORK

1. Extent: It shall be the responsibility of Contractor to provide all labor, materials, equipment and tools necessary for the complete installation of a cement dust stabilized sub-grade in the specified area as shown on the Drawings.

2. After the removal of all organic material having an organic content of more than 25%, the sub-base shall be graded for planarity.
a. Break-up and or pulverize, similar to lime treatment, existing soil as necessary to re-grade the treated area as shown on the Drawings, minimum depth of 8 inches.
b. Using cement, treat those areas no deeper than 8".
c. Rough grade and compact the mixed material to achieve 95% compaction.
1) Fine grade to specified tolerance.

B. REQUIRED CONTRACTOR EXPERIENCE

1. The Contractor shall demonstrate experience on at least eight (8) sub-grade stabilization projects of 60,000 square feet or larger.

PART II: MATERIALS

A. Portland Cement Dust
Type-II cement shall conform to the requirements of ASTM C150.

PART III: EXECUTION

A. BASE CONSTRUCTION

1. The Contractor shall approve, in writing, the cross-sectional detail for construction

B. STABILIZATION OF SUB-GRADE

1. Apply 10% or 360 pounds by volume Portland Cement dust to treatment area and mix in with a pulverizing machine. Water as needed to allow setting up of soil cement.
a. Cement shall be 360 pounds per cubic yard
b. Material shall be mixed thoroughly into the existing top 6" of soil using one or more of the following:
1) Bomag pulverization machine
2) High speed tiller
3) Plowing disc
4) Rototiller

2. All work in a designated portion of the field area shall be completed, including fine grading, within 24 hours. Cure time of the material is 24 to 72 hours without rain. Do not apply if temperature is below 40 degrees F, including cure process time.

3. Rough grade area to +/- 1" tolerance. Compact area with 8-10 ton vibrator double drum roller.
4. Fine grade to a 5mm tolerance within ten feet, maintaining the existing cross slope. Compact with double drum roller. A leveling course of decomposed granite or crusher dust not larger than 1/4" and having a fine content (200 sieve) of not less than 18% can be installed at not more than 1" thickness.
5. Contractor to notify City inspection and Third Party inspection prior to starting to ensure proper compaction testing is completed. If the contractor does not notify City inspection or Third Party inspection in timely manner any and all re-testing and corrective work will be completed and cost associated to all parties will be reimbursed by contractor.

SECTION C: PERIMETER COLLECTOR DRAINAGE

PART I: GENERAL

This work consists of the perimeter perforated pipe and drain rock installed in the perimeter trench.

PART II: MATERIALS

Rock shall consist of free-flowing 3/4" minus diameter coarse drain rock. It shall comply with the following gradation criteria:

Mesh size	%Passing
3/4"	100
5/8	100
1/2"	90-100
3/8"	70-90
#4	25-40
#8	15-30
#30	5-15
#50	0-7
#200	0-3

PART III: QUALITY ASSURANCE

A. The permeability of the non permeable treated base shall be checked by a qualified engineer from a sample of the treated material prior to placing the liner on site. In addition, tests shall be coordinated through the Project Manager to test the treated base in six location. The treated base shall have a permeability rate no more than 4" per hour and shall be per Din 8035 Part 7, ASTM 2434 (constant head), or ASTM F2898 (bucket test) testing methods which consist of a bucket or pale approximately 5 gallons in size. The bottom of the vessel shall be perforated with thirty (30) hole using a 3/4" drill bit. In addition to the lab testing, after installation of any aggregate base cross-section designed to conduct rainfall from the turf to the sub-soils and/or under-drain system shall be tested in situ for infiltration rate, using a (ASTM D-3385-94). The test shall be performed in the presence of the Project Manager. The average infiltration rate of 12 critical areas of the field, as determined by the Project Manager, shall not be more than 4" per hour of vertical water passage per hour, with no one location having a rate more than 6" per hour. The Contractor is responsible to meet this in-situ performance specification, before proceeding with the installation of the All-weather turf, and shall bear the cost of the on-site testing and the cost of any additional work necessary to achieve compliance with the specification. It shall be the Contractor's responsibility to restore at his expense, the processed stone base to the required grade, cross-section and density.

B. All testing fees shall be paid for by the Contractor.

C. The Contractor shall notify the Project Manager and designated City inspector to schedule a final inspection for approval of base and subgrade prior to installing the All-weather turf. The Contractor shall make available an orbital laser system to the inspection team for the inspection process.

D. METHODS

1. UNDERLYING SOIL
Prior to preparing the site for subgrade foundation and drainage installation, all surface turf and vegetation shall be removed and properly disposed of off-site.

2. SOIL PREPARATION

The native soil shall be sufficiently irrigated and strafed as required to meet the final conditions set forth below. Field Contour - Overall surface contour after final grading and compaction shall be as indicated in the Construction Documents.

3. SUBGRADE AND BASE COMPACTION

After final contouring and rolling, the subgrade soil compaction: The soil compaction shall be greater than 95% on average, with no measurement less than 95%, in accordance with ASTM D-698, based on eight (8) samples taken at reasonably spaced (pseudo-random locations across the field surface location). The designated City Inspector may modify the exact location in the field depending on field conditions. Installed compaction of base material shall average 95% minimum measured at eight (8) locations reasonable spaced across the field surface with no individual measurement less than 90%. The designated City inspector may modify the exact location in the field.

4. SUBGRADE AND BASE PLANARITY

a. Local soil contour after final compaction and grading shall not have deviations in surface shape greater than 5mm over a 10' span. Final contour shall be plotted on a table of laser-sighted grade elevations using a rectangular grid size appropriate to the area of All-weather turf. Soil grade elevations are to be reviewed and approved by the designated City inspector prior to installation of the soil isolation fabric.

b. The finished surface of the compacted and laser-graded base material should be set 3/4" below the top surface of the nailer. A graded surface tolerance of +/-1/8" is required along the nailer.

5. PERIMETER COLLECTOR DRAINAGE PIPE INSTALLATION

a. Perimeter drainage system shall be coupled with a main drain exit, see Construction Drawings.

b. The centerline of the perimeter drainage trench is nominally placed 36" inboard of the perimeter curbing with a minimum width of 24" and a minimum depth of 18" (at the "uphill" end of the system).

c. Surface contour between the drainage trench and perimeter concrete curb should be counter-sloped to the field at a minimum of 1% for surrounding infiltration or as specified in the provided Construction Drawings.

d. Trenches shall be cleared of all loose debris.

e. Install perforated HDPE pipe in the perimeter collector trenches.

f. The centerline of the pipe shall coincide with the centerline of the trench.

g. A minimum of 4" of the collector trench drain rock shall be placed in the bottom of the collector trenches, on top of the specified soil isolation fabric. The drainage rock shall be compacted per specification. Fill the remainder of the collector trenches with the specified pipe and the specified drainage rock to top of subgrade, compacted per specification.

h. The trench bottoms shall have a drainage slope of 0.5% minimum with a preferred slope of 0.75% throughout the entire system or as specified in the provided Construction Drawings.

SECTION D: PERIMETER CURBING AND TURF ATTACHMENT

PART I: GENERAL

DESCRIPTION OF WORK:

1. A continuous foundation grade curbing shall be installed around the entire perimeter of the All-weather field.

2. Curbing shall be primarily composed of foundation grade concrete, with an additional polymer composite lumber nailer that will serve as the attachment surface for the turf.

3. Polymer composite 2x4 lumber is attached (concrete nailed) directly to the poured concrete curbing then more securely attached using 1/4" diameter concrete threaded studs (Tapcons, or equivalent) at 3' maximum spacing. The top surface of the nailer should be located 2 inches below the top surface of the concrete curbing, or if an additional surface is applied to the concrete curbing, then 2 inches below that finish surface.

4. Curbing can be installed as a "exposed" style with the turf edge adjacent an exposed top section of concrete (or other paved surface) or as a "hidden" style with the turf edge adjacent and level with soil area (infield for example) or other non paved surface. See Construction Documents for exact orientation.

5. Turf is attached directly to the concrete supported polymer composite curbing utilizing galvanized fabric studs placed at 8" intervals.

PART II: QUALITY ASSURANCE APPROVALS

A. It is required that the subsurface be properly installed, inspected and approved prior to turf installation by the turf company and designated City inspector. Finished All-weather base installation workmanship shall be approved in advance by the turf manufacturer. Approvals to be based on a physical inspection performed at the site prior to installation of any All-weather turf material.

B. Any approvals sought after turf installation will be declined. Any associated repair or replacement costs associated with rework of the All-weather base will be the responsibility of the turf supplier/installer.

PART III: INSTALLATION COMPLETION

Upon completion, the base installer will conduct a thorough inspection and walk-through with the City's Project Manager, Bureau of Construction Administration Inspector and Landscape Architect. See inspection requirement in the General Conditions and General Requirements of the Contract Documents. This inspection is to ensure that the Contractor has complied with the Contract Documents, to identify key features of the installation, and to ensure all details meet specifications and performance requirements.

SECTION E: ALL-WEATHER TURF

PART I: GENERAL

A. DESCRIPTION OF WORK
The work under this section includes but is not limited to the installation of the geotextile membrane, new All-weather grass system, in-fill materials, in-laid markings, perimeter termination and maintenance equipment.

B. SUBMITTALS

1. Installation Qualifications: The All-weather grass sub/contractor shall demonstrate experience on at least five (5) installations of the proposed material in the last year. The All-weather grass manufacturer shall certify the designated supervisory personnel on the project. A letter on the manufacturer's letterhead shall be submitted affirming the sub/contractor as competent in the installation of the material, including seaming methods, in-laid markings, termination and proper installation of the product. The turf manufacture shall also submit on letter head that sub/contractor workmanship (installation of the all-weather turf) is covered for the warranty period as specified herein.

2. All-weather Grass Sample: The Contractor shall submit a 6"X9" sample of the All-weather grass and in-fill system proposed for this contract for approval of colors, in-fill, seaming materials and layout of the system prior to ordering the materials.

3. Warranty: The Contractor shall submit a manufacturer's warranty listing a TEN (10) year guarantee against ultra-violet ray fading, degradation, or defects, such as excessive wear or defibrillation. The guarantee shall include and cover that the product will not decrease in pile height by more than 15%, decrease in face weight (without in-fill) by more than 20% and not exceed a G-max (force reduction) of 110 G's initially and not exceed 150 G's over the guarantee period. The Contractor is required to perform the necessary testing during a scheduled time at least one time per year during the guarantee period. The results of the testing shall be submitted to the City of Los Angeles project manager within 30 days of each test. Failure to submit the results will serve as notice to perform such testing by the City of Los Angeles to determine the extent of the needs under this guarantee. The Contractor is required under this guarantee to supply and install all in-fill materials and All-weather grass to maintain the performance levels of this guarantee. The Contractor or Manufacturer must supply the City with a performance bond or warranty covering workmanship for the installation of the pad and all-weather turf system.

4. Testing and Quality Control: Submit to the Project Manager a copy of the results certified by an independent testing laboratory for the following tests performed on the All-weather grass system.

5. Fiber shall be Parallel Slit Film with nylon monofilament thatch layer.

6. All material shall be constructed using the C-8 resin technology. A letter from the fiber manufacturer shall be submitted to the City before payment.

Pile Yarn Type	62 oz. Polyethylene parallel Slit Film with 33 oz. HD nylon mono filament fiber thatch layer
Yarn Denier	ASTM D-1577
Yarn Breaking Strength	ASTM D-2256
Yarn Melting Point	ASTM D-789
Pile Height	ASTM D-418
Pile Weight	ASTM D-418
Total Weight	ASTM D-418
Backing Perforations	ASTM D-418
Tuft Bind (Without in-fill)	ASTM D-1335
Tuft Bind (With in-fill)	ASTM D-1335
Grab Tear Strength	ASTM D-1682
Impact Attenuation	ASTM D-355
Pill Burn Test	ASTM D-2859

**FTIR Lisport Test: Turf and Pile composition for not less than 100,000 cycles to be performed. The fibers have already been tested. Contractor shall supply this test at the time of submittals

8. Maintenance and Operating Data: Submit to the Project Manager a copy of maintenance and operating data for the All-weather grass system. Provide descriptions of all equipment recommended for the maintenance, repair, citing turf and activities not recommended relative to the warranty. Include maintenance recommendations including coverings for special events, small repair procedures, minor seam repair, discussion of the precautions to be practiced, general maintenance and uses to avoid to protect the turf system.

9. Site Acceptance: As a part of this contract, this contractor shall be responsible to oversee the installation of the base and drainage and to comment on any problems or conflicts that may be discovered. Upon completion of the base work, submit a letter confirming the site inspection has been performed, noting any discrepancies, problems and/or conflicts. A summary of certification of the acceptance of the base and drainage shall be submitted.

C. STANDARD SPECIFICATIONS FOR LAYOUT AND RULES
All markings shall be performed using selected colors of turf materials.

D. FIELD SLOPE
Each field shall be installed with a SLOPED surface. The slope of the field may not exceed a finish profile of 0.75% grade for the Base Bid. This will be maintained throughout. Any modification to this slope shall be submitted in advance to the Project Manager for final review and approval.

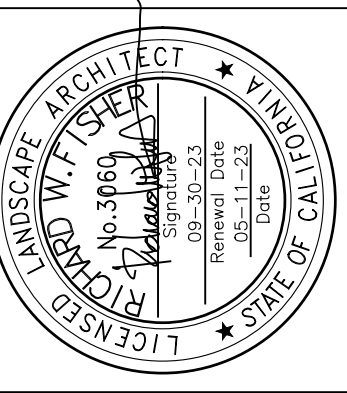
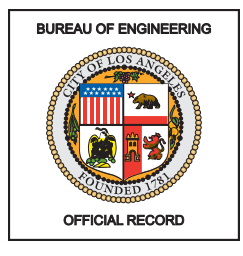
E. DELIVERY, STORAGE AND HANDLING
1. Packing and Shipping: Deliver products in original unopened packaging with legible manufacturers' identification. All materials shall be stored in a dry place out of the direct sunlight.

2. Bulk Materials: Deliver materials in clean, washed and covered trucks to eliminate contamination during transportation. On site stockpiling locations to be coordinated with the City of Los Angeles. Stockpile only in areas free of debris and away from drainage routes. Cover all materials with plastic or geotextile if materials are to be stockpiled more than 48 hours.

F. FIELD SYSTEM HOLD HARMLESS
The contractor shall hold the City of Los Angeles, Project Manager and Field Consultant harmless from infringement of any current or future patent issued for the All-weather grass system, fibers, backings, including shock pad (as required), installation methods and vertical draining characteristics. The successful Proposer will be required to submit a letter for consent from their surety. Surety will indemnify the requirements.

G. FIELD DIMENSIONS AND LAYOUT
The Contractor will be responsible for furnishing, setting and marking all lines, seams and markings for the field. The Contractor shall at all times maintain all necessary benchmarks and control points to locate all events and markings.

H. PROTECTION OF UTILITIES AND STRUCTURES
This Contractor shall take special care to protect all field and stadium structures and utilities.



CLIENT: DEPARTMENT OF RECREATION & PARKS
GENERAL MANAGER:
SHEET TITLE: SYNTHETIC TURF SPECIFICATIONS, SHEET 1
PROJECT: RIO DE LOS ANGELES STATE PARK FIELDS MAINTENANCE IMPROVEMENTS PROJECT
ADDRESS: 1900 WEST SAN FERNANDO ROAD, LOS ANGELES, CA, 90039

CIP NO. G1188

INDEX NO. RP-300125

CITY ENGINEER: TED ALLEN, P.E.
DESIGN GROUP: CITY ENGINEER
ENGINEER: RICHARD W. FISHER, LANDSCAPE ARCHITECT
DESIGNED BY: RICHARD W. FISHER, LANDSCAPE ARCHITECT
DRAWN BY: ERNESTO GONZALEZ, LANDSCAPE ARCH. ASSOCIATE II
CHECKED BY: RICHARD W. FISHER, LANDSCAPE ARCHITECT
APPROVED BY:
DATE: 7/13/2023

WORK ORDER NO. E1908951
FILE NO. 999
DRAWING NO. L416
SHEET 59 OF 100 SHEETS

REVISION DATES (DESIGN STAGE ONLY)
A
B
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G
H
J
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L

CITY OF LOS ANGELES DEPARTMENT OF PUBLIC WORKS BUREAU OF ENGINEERING
THIS PLAN WAS ELECTRONICALLY SIGNED AND STAMPED

I. WARRANTY OF ALL-WEATHER GRASS SYSTEM
1. The Warranty/Guarantee shall cover, in general, the usability of the turf system (and pad as required); accessories use characteristics and suitability of the installation. All items covered by the warranty are to be replaced or repaired with new materials, including installation at the sole expense of the warranting contractor or manufacture for a period of TEN (10) years to the City of Los Angeles from the date of substantial completion. The field materials shall be guaranteed for the designated uses as follows:
a. Marching Band
b. Football
c. Soccer
d. Physical education exercises
e. Physical education activities
f. Lacrosse
g. Field Hockey
h. Rugby
i. Pneumatic rubber tired maintenance and service equipment
j. Pedestrian traffic and other similar uses
2. A principal of the applicable firm, duly authorized to make contracts, shall sign the turf contractor warranty. The term "contractor" contained herein means the firm furnishing the warranty. "Owner" is the City of Los Angeles. If the turf manufacturer of the All-weather grass system is not the same entity as the contractor, the warranty shall be co-signed by the manufacturer and the installation contractor.

J. Form of Warranty of the All-weather Grass System
1. Contractor hereby warrants to the City of Los Angeles, subject to the limitations and conditions set forth below, that its All-weather grass system consisting of the All-weather turf described as _____, the shock-absorbing under-pad (if necessary) described as _____, and the adhesives used in the installation, are free from defects in material and workmanship and shall, for a period of Ten (10) years from the date of acceptance by the City of Los Angeles, remain serviceable for the activities as listed above.
2. Contractor warrants to the City of Los Angeles that its All-weather grass materials shall not fade, fail, shrink, wrinkle or reflect excessive wear. Contractor shall, at their sole expense and cost, replace such areas of the All-weather grass system not performing to these standards for the life of the warranty.
3. Definitions:
a. The term "not fade" in the context of this warranty shall mean that the All-weather grass material remain a uniform shade of green or the other colors installed with no significant loss of color as defined by not greater than 20% loss or shade reduction.
b. The term "not fail" or "excessive wear" as used in the context of this warranty shall mean that the length and weight of the face yarn or pile material in the All-weather turf surface shall not have been decreased by more than 5% per year according to ASTM D418, nor exceed 20% during the warranty period. In the event that the All-weather turf materials do not retain its fiber height or shock absorbency and is consequently no longer serviceable during the warranty period, the Contractor shall, at their sole expense, replace such portions of the system that are no longer serviceable.
c. The term "serviceable" in the context of this warranty shall mean that the All-weather turf material shall have a maximum "G" force value according to Procedure A, B, or C of ASTM D355, not exceed 110 G's at any location upon installation and shall not exceed 150 G's thereafter throughout the life of the warranty period. This shall be determined by conducting dynamic cushioning tests at the six field locations as required per ASTM D355 procedures. "G" force factor values to be determined at 70 degrees F. Any increase from 110 G's to allowable 150 G's maximum shall be at a relatively uniform rate not to exceed 10 G's in any single year. HIC testing shall not exceed 900 from a 1.2M fall height during the warranty period.
4. Where applicable, the fabric shall adhere firmly and completely to the under pad or seaming tape over the entire warranty period.
5. Contractor warrants to the City of Los Angeles that the permeable All-weather turf system shall drain vertically a minimum of 15 inches precipitation per hour for a maximum of 24 hours continuously, without visible surface ponding.
6. Contractor shall replace with new materials, at their sole expense, any damage to the All-weather grass system, which extends more than one meter beyond the location of foreign combustibles, which may ignite, and fire-damage the All-weather grass system. The Contractor shall not be held responsible for any incidental or consequential damages. These warranties and the Contractor's obligations here-under are expressly conditioned upon:
a. The City of Los Angeles making all minor repairs to the All-weather grass system upon the discovery of the need for such repairs.
b. The City of Los Angeles maintaining and properly caring for the All-weather grass system in accordance with the Contractor's maintenance manual and instructions.
c. The City of Los Angeles complying with the dynamic and static load specifications established by the Contractor.
7. The warranty is not to cover any defect, failure, damage or undue wear in or to the All-weather grass system caused by or connected with abuse, neglect, deliberate acts, acts of God, casualty, static or dynamic loads exceeding Contractor's recommendations.
8. Contractor shall examine the All-weather turf system at least once per year or in regards to any claim that the City of Los Angeles makes to be present at any time, to analyze the results of all tests conducted by the City of Los Angeles or others, and to conduct such tests of their own. Contractor shall not be responsible for any costs or expenses incurred by the City of Los Angeles or others with respect to such tests, except the Contractor shall pay for costs of all tests and analysis conducted or directed by their representative. The annual testing will be at the expense of the Contractor and the results delivered to the City of Los Angeles within 60 days of the testing.
9. In the event the Contractor does not respond to the City of Los Angeles's written notice within 10 days of receipt of the notice or does not submit, schedule and execute corrective work within 60 days (weather permitting), the City of Los Angeles has the option of having the work performed at the expense of the Contractor.
10. The Contractor will be given 7 days notice in the form of a certified letter notifying the Contractor of the end of the 60 day scheduling period.

11. Sample form of warranty herein set forth is a suggested for use for the work under this section. Manufacturers' standard form of warranty may be used provided conditions specified herein are incorporated. All claims by the City of Los Angeles under this warranty must be made in writing to the Contractor's address.
Within 30 days after the City of Los Angeles learns of the defect, giving rise to the claim. This warranty shall constitute a contract made in the State of California and shall be governed by the laws of that State.

PART II: MATERIALS
A. GENERAL
1. The field surfacing system shall be a vertically draining permeable All-weather grass system consisting of an All-weather grass like pile that shall be tufted into a double layer All-weather backing. The final coating shall be a polyurethane based material.
2. The suppliers listed are capable vendors for the specified material. This specification will supersede any references to the vendors' specifications or product literature. The specification is meant to identify the quality and quantity of the specific components and performance results. Any material exceeding the specifications shall be considered as an equal. Any material with variations from the specifications shall be approved by the Owner prior to acceptance under this specification and contract.
The All-weather Grass Producers:
A. Challenger Industries, Inc, Dalton, GA
B. Astroturf, Dalton, GA
C. Hellas Construction, Austin TX
D. Controlled Products, Dalton, GA
Equal Producers approved by the City of Los Angeles only
3. The entire system shall be resistant to weather, insects, rot, mildew, fungus growth and be non-allergenic and non-toxic. The entire system shall be constructed to maximize dimensional stability, to resist damage and normal wear and tear from its designated uses and to minimize the ultra-violet degradation.
4. All adhesives used in bonding the system together shall be resistant to moisture, bacterial and fungus attacks, and resistant to ultra-violet rays at any location upon installation.
5. Include all labor, materials, equipment, transportation and services to install complete All-weather All-weather grass system.
B. Zeolite Infill: as supplied by KMI, Product lead time is 30 days minimum. Contact KMI directly for materials. Mesh size 12 - 20.
Na6[Al6Si30O72]24H2O
• General Chemical Formula 97%+
• Clinoptilolite Content Exchange 1.6 - 2.0 meq/g
• Cation Capacity (CEC)
• Form Granules
• Shape Angular
• Color Gray - green
• Pore Diameter 4.0 - 7.0 angstroms
• Specific Gravity 1.89
• Bulk Density 50 - 65 lbs/ft3
• pH (natural) 7.0
• Alkali Stability pH of 7 - 10
• Acid Stability pH of 3 - 7
• Hardness 4.2 - 4.5 Mohs
• Swelling Index Nil

Table with 2 columns: Specification and Reference Standards. Section 1: Dynamic Cushioning Requirements of the All-weather Grass System. Includes rows for Product made in USA, Manufacturer warranty, Material ISO-9000, Minimum thickness 23mm, Seams locked, Tensile Strength >60 psi, Tensile Elongation >28%, Resistance to Acid and Alkaline Liquids, Resistance to Oxidation, Resistance to bacteria, Resistance to fungi, Thermal Resistance, Coefficient of linear thermal expansion, Water Absorption.

Table with 2 columns: Specification and Reference Standards / Specificaitons. Section 2: ENVIRONMENTAL COMPATIBILITY. Includes rows for Product compliance with California Proposition 65, Manufacturer documentation, and Secondary Water Standards.

Table with 2 columns: REQUIREMENTS and SpecificationReference Standards / Specifications. Section 3: PERFORMANCE & SAFETY. Includes rows for Vertical drainage, Vertical Deformation, Force Reduction, Provide guarantee of maximum field average G-Max, Provide maximum field average HIC, Provide minimum interface friction coefficient.

1. Acceptable manufacturers / systems of drain-mat, or approved equal (to be installed over the impermeable liner fabric):
a. Brock Systems, YSR11 PowerBase Series, by Brock USA Boulder, CO, www_Brockusa.com (877)276-2587. Brock Power Base: 0.95" thick.
b. Proplay - 23D by Schmitz Foam Products
***Note: The contractor and supplier shall hold the city of Los Angeles harmless from any patent or pending patent infringements.
2. The dynamic cushioning of the combined turf and in-fill system (and pad if required) shall not exceed a maximum of 110 G's at 70 degrees F, per ASTM 1936-98, F355, Procedure A at any location within 30 days of the installation. The system shall not exceed 150 G's over the warranty period.
3. Packing and Shipping: Deliver products in original unopened packaging with legible manufacturers' identification. All materials shall be stored in a dry place out of the direct sunlight.
4. The in-fill system shall have not less than 2.5 pounds of Zeolite, 12 - 20 mesh sieve size.
c. The material shall have a MOHS hardness of 4.2 to 4.8.
b. The initial infilling shall be at 1.6 pounds per square foot.
c. The remaining 0.4 pounds per square foot shall be installed after 60 days.

D. PERMEABILITY REQUIREMENTS OF THE ALL-WEATHER GRASS SYSTEM
1. The combined turf, in-fill system and pad shall drain vertically at a minimum of 10 inches of precipitation per hour for 24 hours continuously, without visible surface ponding.

E. ADHESIVE MATERIAL PROPERTIES
1. Adhesive material to adhere the All-weather turf shall be:
a. Mapai Ultrabond PU 1K(single component) or two compenent, Mapai, Deerfield Beach, FL.
2. The adhesive shall have the same warranty period as the All-weather grass system.

F. ALL-WEATHER TURF PILE SURFACE
1. The pile surface shall provide good traction in all types of weather with the use of conventional "sneaker type shoes" and composition, molded sole athletic shoes. The pile surface shall be suitable for both temporary and permanent line. Markings and permanent markings using a rubber base paint where applicable.
2. The pile height shall be constructed to allow a total of 3/4" of free fiber after the in-fill materials are installed.

G. ALL-WEATHER TURF SYSTEM MATERIAL COMPONENTS
1. Pile fibers shall resemble freshly grown natural grass in appearance, texture and color (except for the color turf for markings).
2. Fibers shall be a combination of 62 oz. of Polyethylene parallel slit film (1.5mm pattern) having a denier of 8,000 and fiber thickness of 100 micron (before the oven), with 38 oz. HD (30) nylon (650 denier) monofilament as a thatch zone. Total fiber weight shall be not less than 95 ounces per square yard.
3. Pile surface shall be nominally uniform in length not less than 1-3/4".
4. The fibers are tufted through a two layer (one woven and one non-woven) All-weather backing material.
5. The final coating or secondary backing shall be a moisture cure polyurethane. This backing shall be not less than 20 ounces. Latex backing material is acceptable. The secondary backing or polyurethane coating shall be uniform and monolithic when cured.
6. If sewn, all turf seams shall be constructed of reinforced backing material or sewn with high strength polyester fiber cord. Sewn seams shall be a "double loop stitch" (bagger seams are not acceptable) type seam. Seams shall lay flat after in-fill.
7. All glued seams shall have a 12" wide seaming tape of nylon or Mylar, fully coated with adhesive. All seams shall not have any adhesive applied to any exposed fibers. All graphics or markings can be in-laid or cut-in.
8. All turf shall be perforated for drainage after the final backing coating. The perforations shall be not less than 1/4" in diameter and have a uniform spacing of not less than 4" on center. Perforations shall be complete and full diameter for a minimum of 95% of the each roll.
9. On-site perforations are to be inspected prior to installation of the product.
10. Fabric surface shall be constructed and installed in minimum widths of 15 feet with no longitudinal or transverse seams, except for inlaid lines with a finished roll assembly. The seams shall be 15'-0" apart and shall have the white 5-yard line tufted into each panel for the full width of the field. Rolls that do not comply with the proper length or conform to the seaming diagram as submitted prior to the installation, shall be rejected from the site. No fitted pieces will be allowed to true alignment.

Table with 3 columns: Item, Specification, and Reference Standards. Section H: Performance and Test Requirements. Includes rows for Melting Poin, Specific Gravity, Breaking Strength, Coefficient of Friction, Pili Burn Test, Tuft Bind, Tuft Height, Pile Height, Fiber Face Weight, Fiber Construction, Gauge Width, Fiber Denier, Fiber Thickness, Fibers (Yarn), Secondary Backing.

I. Post Installation Testing Requirements:
After the installation the Contractor shall have the field tested for performance within two weeks of completion. The test shall be the ASTM F-355 Shock Attenuation (Gmax). The testing laboratory will be required to test each field in 20 locations as determined by the City or shown on the drawing. At each location the Gmax level will be recorded in addition addition to the in-fill depth measurement.

J. Post Installation Testing Requirements:
1. After 60 days of the installation the Contractor shall have the field tested for performance within two weeks.
2. The testing requirements shall be according to the STC (Synthetic Turf Council).



REVISION DATES (DESIGN STAGE ONLY)
A
B
C
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K
L

Engineering City of Los Angeles logo, Department of Public Works logo, Bureau of Engineering logo, Ted Allen P.E., City Engineer information, Design Group information, Work Order No. E1908951, Drawing No. L417, Sheet 60 of 100 sheets.

3. TESTS:

a. Ball Roll:	6 to 10 metersb.
b. Ball Bounce:	60 to 100 centimeters
c. Force Reduction:	55 to 70
d. Deformation:	8 to 12 mm
e. Torque:	25 to 50 kg/
f. Traction:	120 to 180
i. Evenness:	9mm within 3m straightedge
j. Gmax:	110 to120 (initial)
k. Seams:	All Seams are checked for completeness
l. Infill Depth:	16 to 18mm (+or- 3mm)

4. Testing Laboratories:
 a. All Testing will be completed by City 3rd Party to ensure compliance to specification performance guidelines.
 K. Markings
 1. A complete field lining, marking and field boundary system with team areas limits, etc. shall be provided with the initial installation. Layouts shall be accurately surveyed and marked prior to installation.
 2. All lines, numbers and field markings except one-yard marks are to be tufted or inlaid with the specific colored turf. All markings shall be uniform in color, providing a sharp contrast with the turf color and shall have sharp and distinct edging. Markings shall be true and shall not vary more than 1/2" from specified width and location.
 3. Manufacturer is to guarantee that the synthetic fiber is adaptable to painted lines.
 4. Minimum Lining and Markings: All Green Field area with white, red and yellow as indicated on the drawings for soccer markings.

PART 3 - EXECUTION

A. INSTALLATION

- Perform all work in strict accordance to the drawings, shop drawings and manufacturer's specifications and instructions.
- Verification: The Contractor is responsible for the inspecting, verifying and completing all installed work of this section.
- Weather Permitted Conditions: The Contractor shall not perform any work if any of the following conditions exist;
 - Ambient air temperatures are below 45 degrees F.
 - Material temperature falls below 45 degrees F.
 - Rain is forecast or falling
 - Conditions exist or are pending that will be unsuitable to the installation of the system.
- No utilization of nailing of the system turf the non-pours linear will be accepted. Any damage caused to the non-porous liner will result in full removal and replacement of the section damaged.
- No wrinkling of the material is allowed during installation. Any additional seams added to the field during installation that are not specifically documented and approved by the Owner or Owner representatives on the approved seam diagram are not permitted. Any additional seams added to the field will be rejected and contractor to replace full panel at no cost or delay to the owner and project.

B. CERTIFICATION OF THE BASE INSTALLATION

- The Contractor, Pad supplier and Turf manufacture are responsible for the review and acceptance of the base and drainage.
- Upon completion of the base installation, this contractor shall submit the acceptance of the base in written form with signatures from the both Pad and Turf manufacture prior to installation of the material.
- The base with the completed system installed shall not deviate 5mm in any direction upon completion of the system installation. Any repairs needed to correct planarity deficiencies may result in full replacement of materials that cover deficient areas. The City does not allow any additional cutting of the turf material to correct planarity, compaction or drainage deficiencies.

C. DELIVERY AND INSPECTION OF MATERIALS

- Prior to the installation of any materials and immediately upon delivery of the synthetic turf system and components to the project site, the Contractor shall inspect/verify the following:
- Damaged or defective items
 - Appropriate turf pile height and roll lengths
 - Uniformity of perforations
 - Arrival of adhesives in sealed dry containers
 - Arrival of in-fill with a dry, loose condition, and contained in large sacks or bags without tears

D. CITY OF LOS ANGELES TESTING

- The City of Los Angeles reserves the right to submit any material, either before or after installation to any testing it deems necessary to satisfy the conditions of this contract.
- Any material tested and found not in compliance with the contract will be rejected and replaced with material conforming to the specifications. This will be done at the sole expense of the contractor.
- Any testing performed by the City of Los Angeles will be at the City of Los Angeles's expense. The contractor is responsible for the cost of all testing that fails.

E. TURF INSTALLATION

- After acceptance of the base materials, any turf material with less than the 20 oz. secondary backing shall have a the 6 oz. non-woven geotextile membrane is installed under each area of the panel, the All-weather turf is staged and unrolled as necessary for a daily installation. No material will be allowed to be unrolled 24 hours prior to installation. If a shock pad is required, the in-situ pad can be installed over the accepted base. Control of the finish grade and contour shall be the responsibility of the contractor.
- Seams
 - All panel seams shall be securely sewn using a double stitch bagger seam and/or glued to a backing material of nylon or mylar.
 - All panel seams spacing are to be held to a minimum of 15 feet unless prior approval of seaming diagram indicates a lesser panel.
 - All inlaid areas shall have full fastenings and no loose areas. At no time can pulling on the section separate the material.
 - All seams and inlaid areas shall be brushed thoroughly before infill materials are installed.
- Turf Edges and Termination
 All edges and ends of the turf shall be secured to a termination area. This termination shall be as detailed in the drawings. The contractor shall submit a shop drawing of this termination detail prior to any work on the site.

F. LINES, MARKINGS AND IN-LAID TURF

- All lines to be 4" wide. See drawings for locations and colors of lines, in-laid turf, and (if applicable) logos.

G. INSTALLATION OF IN-FILL

- In-fill material shall consist of 2.5 lbs. per square foot of Zeolite. Zeolite must be approved by the City's third party inspector prior to installation.
- The in-fill material shall be installed to a depth that results, after finish brushing, in an exposed fiber length of not less than 3/4".
- The Contractor shall be required to return to the site after not less than 30 days to inspect and add in-fill materials as needed.
- No in-fill materials shall be installed until the turf system is fully installed with all lines and markings.
- The entire synthetic turf installation shall be thoroughly brushed with a minimum of 10 passes to remove any wrinkles and defibrillate the slit film prior to the installation of the in-fill material.
- The in-fill materials shall be installed in layers not to exceed 0.375 pound per square foot per layer.
- The turf system shall be power-washed at completion of the infill installation.

B. GENERAL CLEANUP

- The site shall be kept clean and free of debris throughout the installation. Empty barrels, sacks, bags and remnant materials shall be appropriately and legally stored or disposed of daily.
- After completion of the entire project, all debris remaining that is not a part of the final project shall be removed from the site.

SECTION F: WARRANTY AND GUARANTEE: ALL-WEATHER TURF SYSTEM

A. GENERAL

- The Contractor shall be required to issue a non-prorated guarantee for 100% of all labor, materials, workmanship and services for the All-weather Surface and Markings for:
 - All-weather Grass System for a period of TEN (10) years. This warranty will be not be subject to pro-rating of the surface for any failure due to installation or materials. The surface wear will be determined by an independent consultant acceptable to all parties.
 - The guarantee for the surface systems shall remain in force for a period of not less than TEN (10) Years specified from the date of written acceptance of the work.
 - The Owner will notify the contractor in writing of any issues that require remedial work on the field area.
 - The Contractor shall respond to the notification within 48 hours of receipt and schedule any major defect or repair within 72 hours or as weather permits.
 - The warranty requires that the contractor shall be required to perform all required repairs in a permanent and suitable manner as deemed necessary to maintain a safe playing condition at all times.
 - The warranty requires that in case of any major repair or replacement, the contractor is to schedule such work as to not interfere with the Owner's primary use or schedule.
 - Any replacement or repair area shall match (as close as possible) the appearance of the existing turf.
 - Any expenses resulting from the failure to honor the requirements of this warranty shall be the responsibility of the contractor.
 - Any defects caused by delamination, peeling, normal abrasion or raveling that is not in original conformance with the testing specifications shall be repaired or replaced at no cost to the City of Los Angeles Department of Recreation and Parks during this guarantee period.

In addition to the Contractor's warranty, the contractor shall be required to submit the following documents in regard to the guarantee:

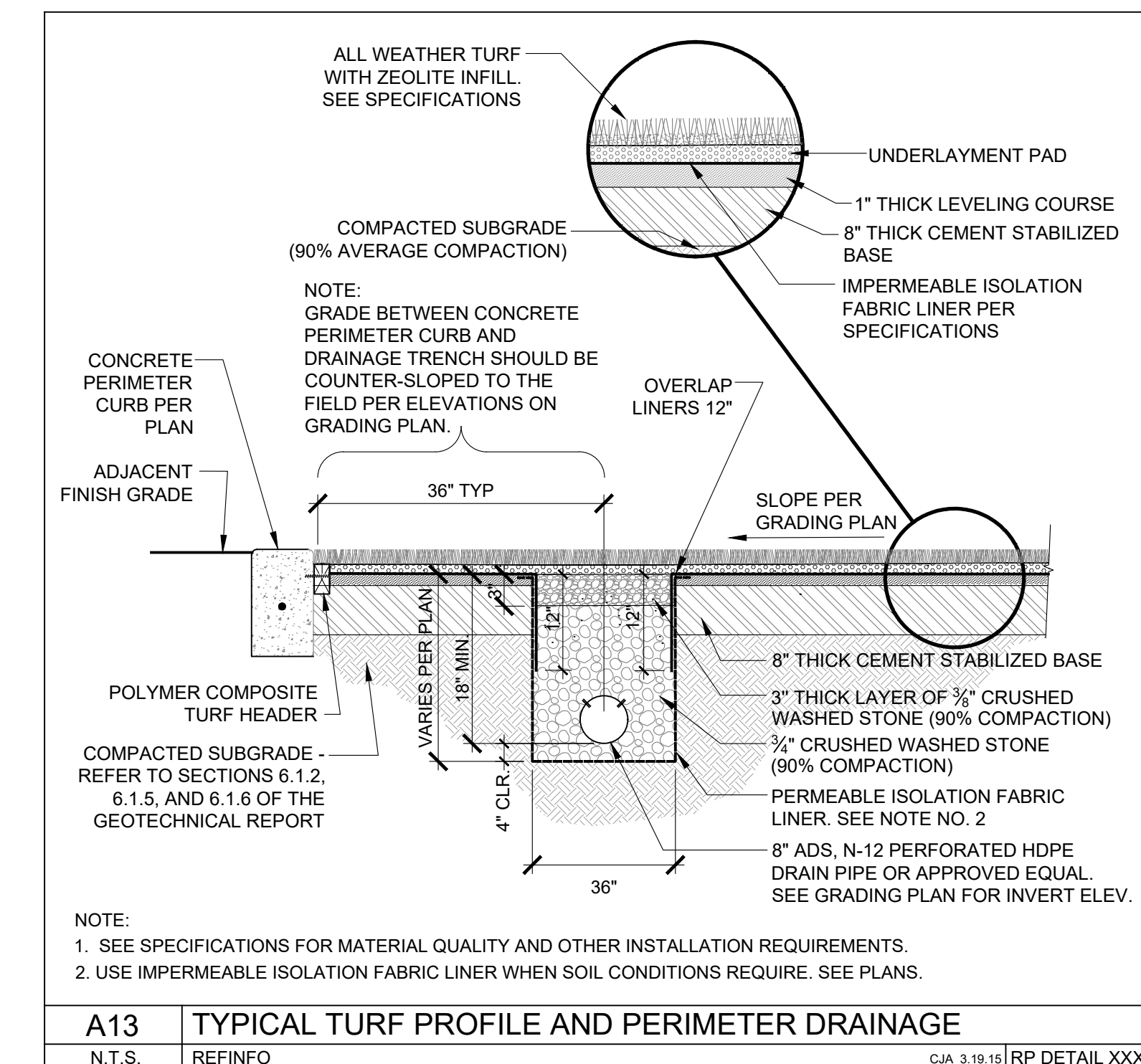
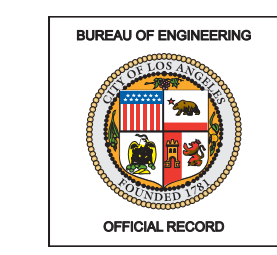
- Provide a TEN (10) year warranty from the manufacturer for the turf product for all work performed under this contract.
 - Provide a TEN (10) year warranty for the fibers from the fiber manufacturer for all work performed under this contract.
 - Provide a TEN (10) year surfacing manufacturer and installer written guarantee for the All-weather grass.
 - Provide an EIGHT (8) year third party insured warranty issued by a company licensed to do business in the State of California. This company shall have a Best rating of A- or more. The limits of the policy shall not be less than \$5,000,000.00 per year with a single limit of not less than \$500,000.00 per field (not site).
 - The City of Los Angeles shall be listed as additionally insured.
 - Policy is non-prorated with no allowances for deductibles.
 - Documents shall be submitted to the City of Los Angeles Department of Recreation and Parks prior to final payment.
5. The Contractor will be responsible for all tests that fail the specification. The City of Los Angeles reserves the right to submit the surface to the above tests at any time during the length of the guarantee. Consideration will be given to the time and use of the surface.
6. This warranty does not cover excessive wear of the surface caused by misuse. The City of Los Angeles will be given an instructions and caretaking procedures before final acceptance in order to comply with the maintenance guidelines as specified by the surfacing manufacturer.

SECTION G: POST INSTALLATION MATERIALS AND EQUIPMENT

Upon completion of the project and before final payments are made, this contractor shall supply the following items to the City of Los Angeles, Department of Recreation and Parks.

- SW48-A Sweep-N-Clean grooming unit with motorized brush unit.
- One piece of turf (of the material installed) 15 feet x 100 feet. Delivered to the City of Los Angeles, Department of Recreation and Parks storage area as directed.
- One super sack (2500 lbs.) of the infill material used for this project.

END OF ALL-WEATHER TURF SPECIFICATION



CITY OF LOS ANGELES DEPARTMENT OF PUBLIC WORKS

BUREAU OF ENGINEERING

CLIENT: DEPARTMENT OF RECREATION & PARKS

GENERAL MANAGER:

SHEET TITLE: SYNTHETIC TURF SPECIFICATIONS, SHEET 3

PROJECT: RIO DE LOS ANGELES STATE PARK FIELDS MAINTENANCE IMPROVEMENTS PROJECT

ADDRESS: 1900 WEST SAN FERNANDO ROAD, LOS ANGELES, CA 90039

INDEX NO. RP-300125

CIP NO. G1188

CITY ENGINEER: TED ALLEN, P. E., CITY ENGINEER

DESIGN GROUP:

ENGINEER: RICHARD W. FISHER, LANDSCAPE ARCHITECT I

ARCHITECT: RICHARD W. FISHER, LANDSCAPE ARCHITECT I

DRAWN BY: ERNESTO GONZALEZ, LANDSCAPE ARCH. ASSOCIATE II

DATE: 7/06/2023

CHECKED BY: RICHARD W. FISHER, LANDSCAPE ARCHITECT I

APPROVED BY:

WORK ORDER NO. E1908951

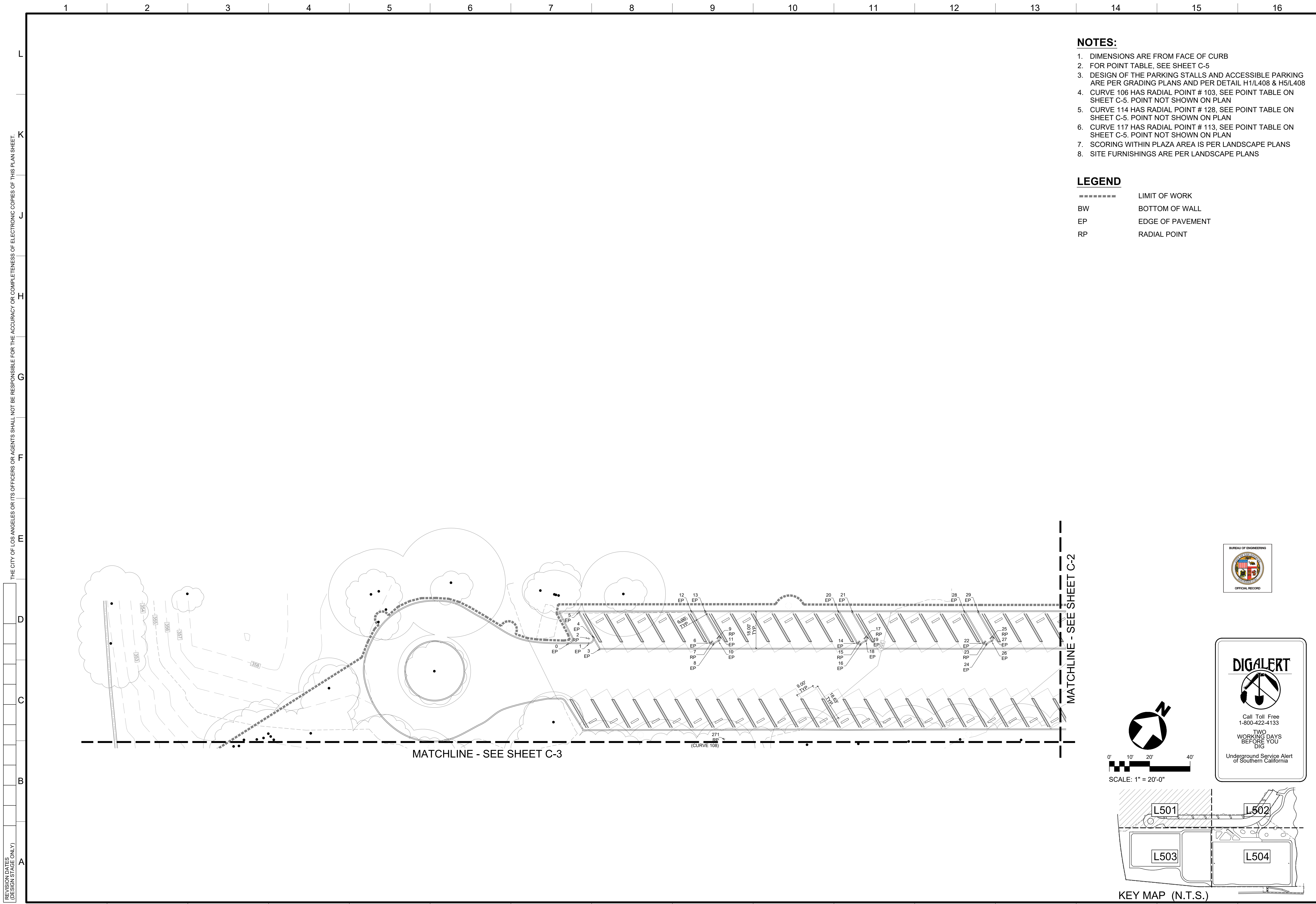
FILE NO. 999

DRAWING NO. L418

SHEET 61 OF 100 SHEETS

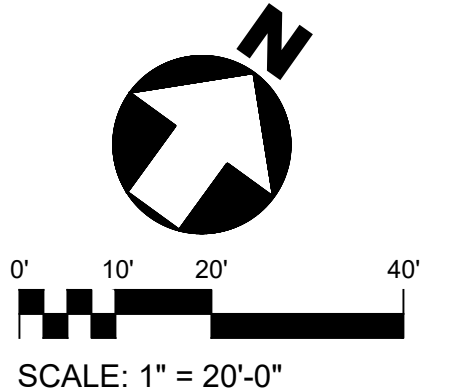
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REVISION DATES (DESIGN STAGE ONLY)



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 2. FOR POINT TABLE, SEE SHEET C-5
 3. DESIGN OF THE PARKING STALLS AND ACCESSIBLE PARKING ARE PER GRADING PLANS AND PER DETAIL H1/L408 & H5/L408
 4. CURVE 106 HAS RADIAL POINT # 103, SEE POINT TABLE ON SHEET C-5, POINT NOT SHOWN ON PLAN
 5. CURVE 114 HAS RADIAL POINT # 128, SEE POINT TABLE ON SHEET C-5, POINT NOT SHOWN ON PLAN
 6. CURVE 117 HAS RADIAL POINT # 113, SEE POINT TABLE ON SHEET C-5, POINT NOT SHOWN ON PLAN
 7. SCORING WITHIN PLAZA AREA IS PER LANDSCAPE PLANS
 8. SITE FURNISHINGS ARE PER LANDSCAPE PLANS

- LEGEND**
- LIMIT OF WORK
 - BW BOTTOM OF WALL
 - EP EDGE OF PAVEMENT
 - RP RADIAL POINT

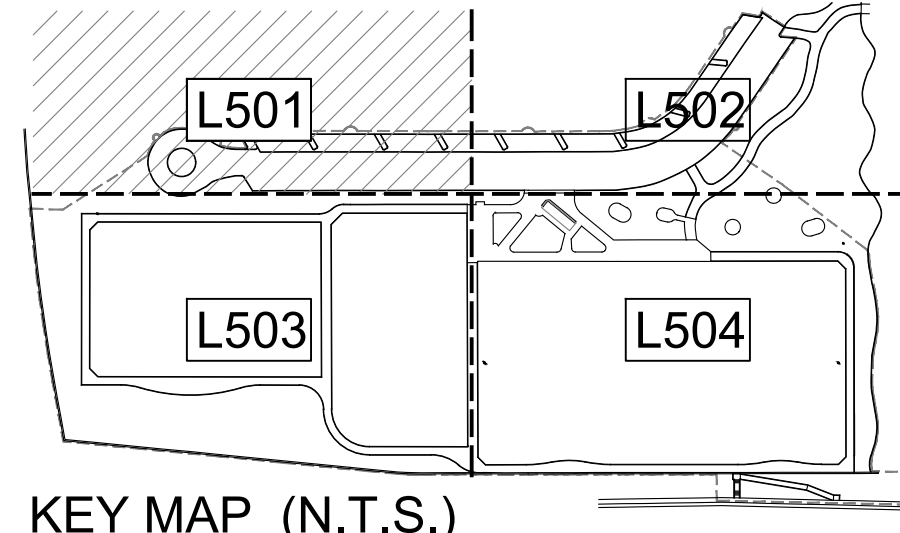


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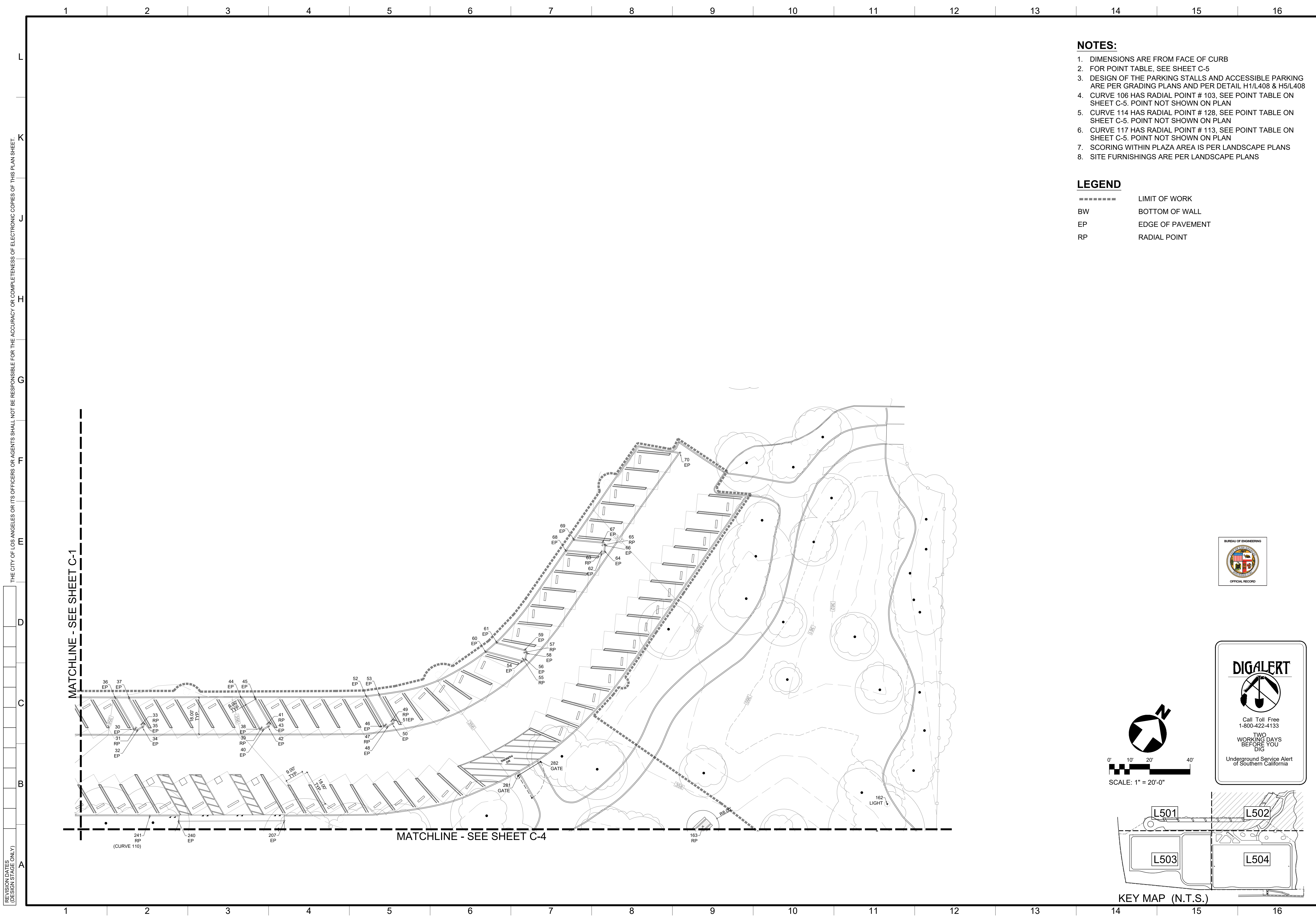
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GENERAL MANAGER: _____

SHEET TITLE: HORIZONTAL CONTROL PLAN, SHEET 1 OF 4
PROJECT: RIO DE LOS ANGELES STATE PARK FIELDS MAINTENANCE IMPROVEMENTS PROJECT
ADDRESS: 1900 WEST SAN FERNANDO ROAD, LOS ANGELES, CA, 90039

NO.	REVISION DESCRIPTION	DATE	BY

INDEX NO. **RP-300125** CIP NO. **G1188**

ENGINEER: TED ALLEN, P.E., CITY ENGINEER	DATE: _____
DESIGNED BY: RICHARD W. FISHER, LANDSCAPE ARCHITECT I	CITY ENGINEER: _____
DRAWN BY: ERNESTO GONZALEZ, LANDSCAPE ARCH. ASSOCIATE II	DESIGN GROUP: _____
CHECKED BY: RICHARD W. FISHER, LANDSCAPE ARCHITECT I	WORK ORDER NO. E1908951
APPROVED BY: _____	FILE NO. 999
	DRAWING NO. L501
	SHEET 62 OF 100 SHEETS

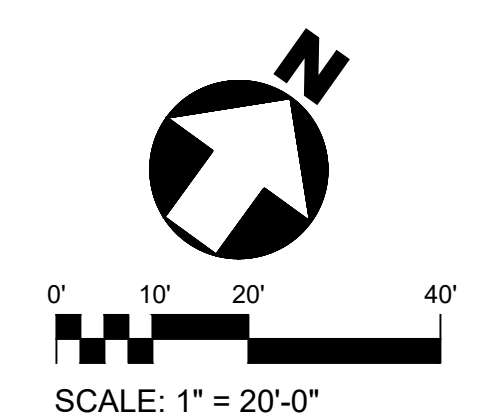


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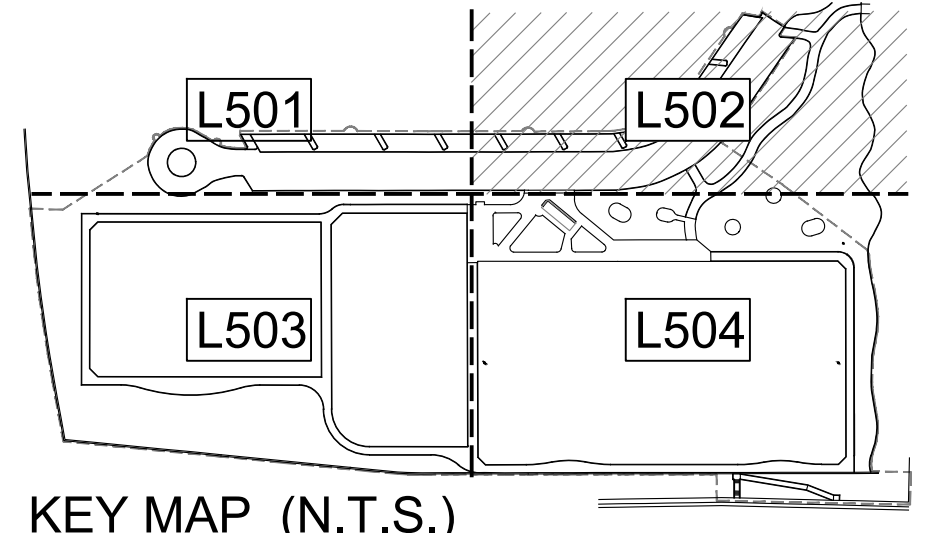


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BUREAU OF ENGINEERING

CLIENT: DEPARTMENT OF RECREATION & PARKS
GENERAL MANAGER: _____

SHEET TITLE: HORIZONTAL CONTROL PLAN, SHEET 2 OF 4
PROJECT: RIO DE LOS ANGELES STATE PARK FIELDS MAINTENANCE IMPROVEMENTS PROJECT
ADDRESS: 1900 WEST SAN FERNANDO ROAD, LOS ANGELES, CA, 90039

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INDEX NO. **RP-300125** CIP NO. **G1188**

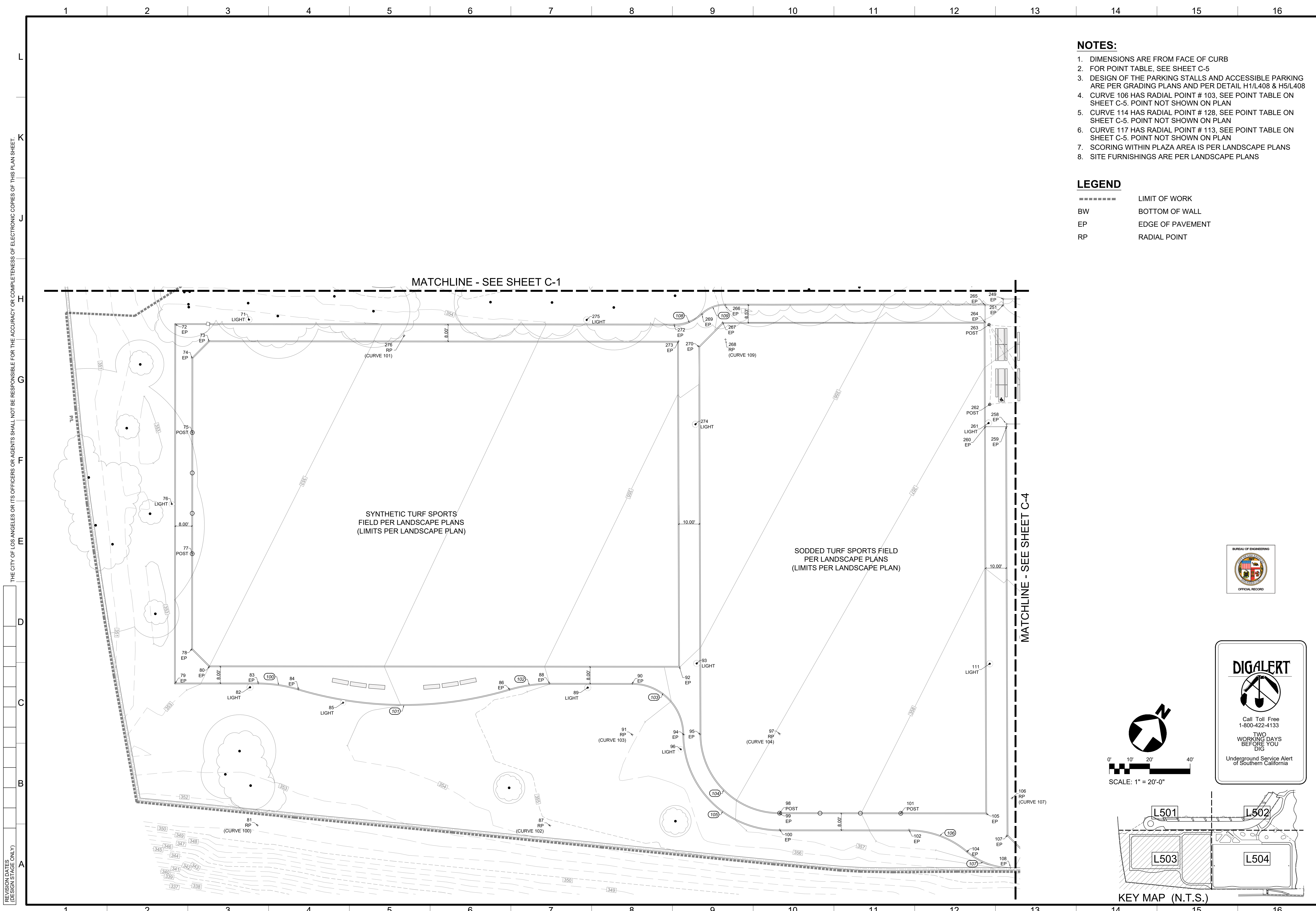
DESIGNER	CITY ENGINEER	DATE
TED ALLEN, P.E., CITY ENGINEER		

ENGINEER	ARCHITECT	DESIGNED BY	DRAWN BY	CHECKED BY	APPROVED BY
	RICHARD W. FISHER, LANDSCAPE ARCHITECT I	ERNESTO GONZALEZ, LANDSCAPE ARCH. ASSOCIATE II	RICHARD W. FISHER, LANDSCAPE ARCHITECT I		

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SHEET 63 OF 100 SHEETS

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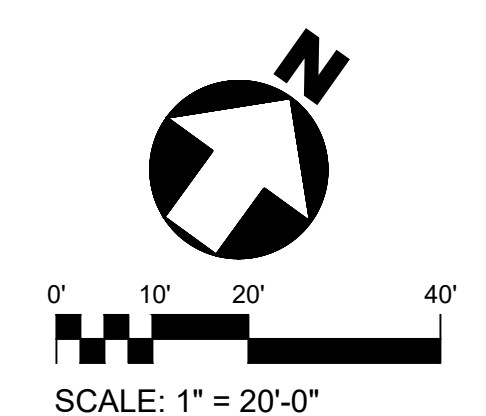


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6. CURVE 117 HAS RADIAL POINT # 113, SEE POINT TABLE ON SHEET C-5, POINT NOT SHOWN ON PLAN
7. SCORING WITHIN PLAZA AREA IS PER LANDSCAPE PLANS
8. SITE FURNISHINGS ARE PER LANDSCAPE PLANS

LEGEND

- LIMIT OF WORK
- BW BOTTOM OF WALL
- EP EDGE OF PAVEMENT
- RP RADIAL POINT

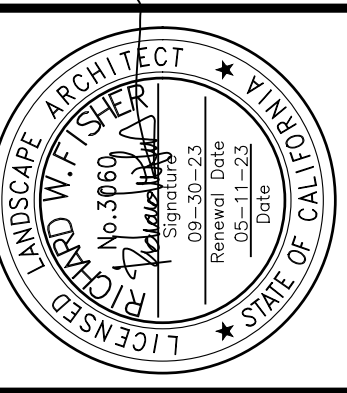
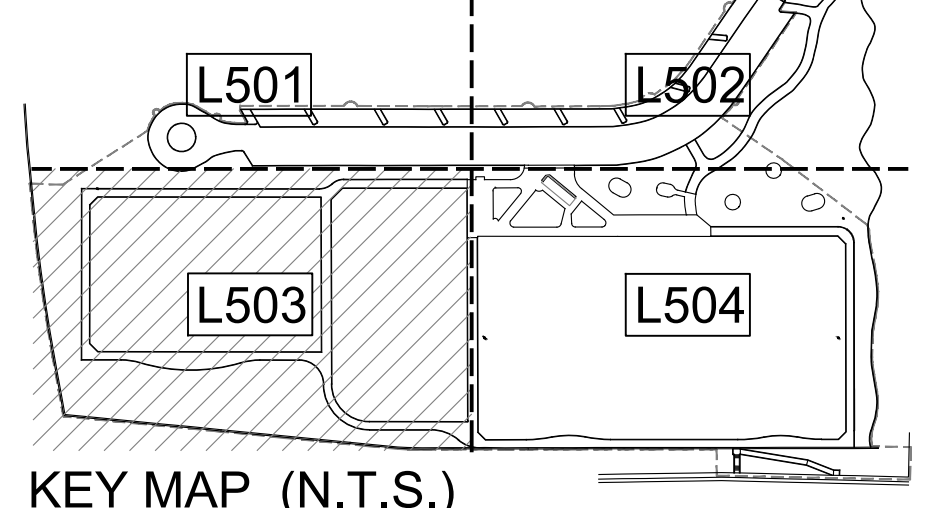


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TWO
WORKING DAYS
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Underground Service Alert
of Southern California



THIS PLAN WAS ELECTRONICALLY SIGNED AND STAMPED

BUREAU OF ENGINEERING

CLIENT: DEPARTMENT OF RECREATION & PARKS
GENERAL MANAGER:
SHEET TITLE: HORIZONTAL CONTROL PLAN, SHEET 3 OF 4
PROJECT: RIO DE LOS ANGELES STATE PARK FIELDS MAINTENANCE IMPROVEMENTS PROJECT
ADDRESS: 1900 WEST SAN FERNANDO ROAD, LOS ANGELES, CA, 90039

NO.	REVISION DESCRIPTION	DATE	BY

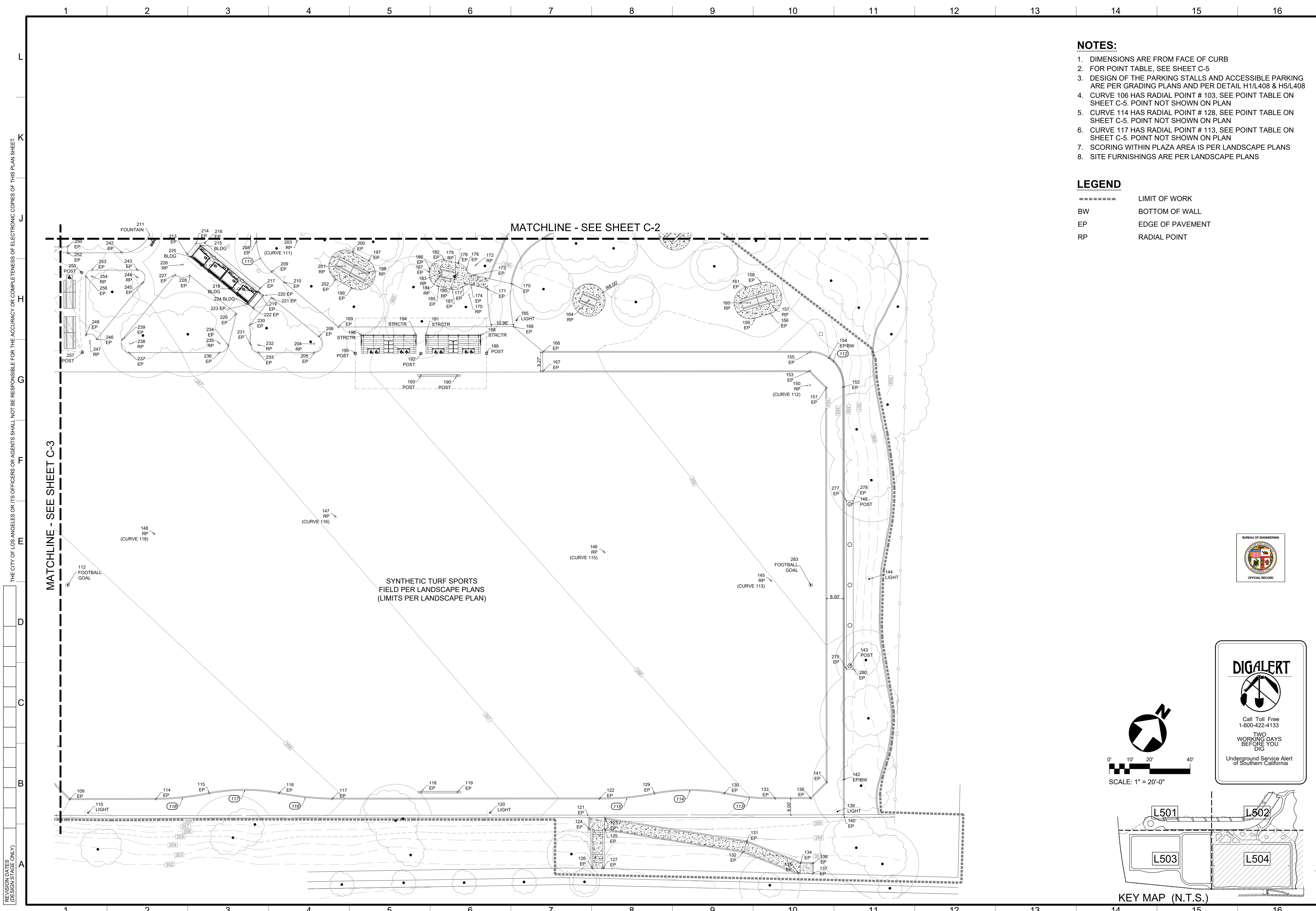
INDEX NO. **RP-300125** CIP NO. **G1188**

CITY OF LOS ANGELES DEPARTMENT OF PUBLIC WORKS

BUREAU OF ENGINEERING
CITY ENGINEER
DESIGN GROUP
TED ALLEN, P.E., CITY ENGINEER

DATE:
CITY ENGINEER
ENGINEER
ARCHITECT: RICHARD W. FISHER, LANDSCAPE ARCHITECT
DESIGNED BY: RICHARD W. FISHER, LANDSCAPE ARCHITECT
DRAWN BY: ERNESTO GONZALEZ, LANDSCAPE ARCH. ASSOCIATE II
CHECKED BY: RICHARD W. FISHER, LANDSCAPE ARCHITECT
APPROVED BY:

WORK ORDER NO. **E1908951**
FILE NO. **999**
DRAWING NO. **L503**
SHEET **64** OF 100 SHEETS



NOTES:

1. DIMENSIONS ARE FROM FACE OF CURB
2. FOR POINT TABLE, SEE SHEET C-5
3. DESIGN OF THE PARKING STALLS AND ACCESSIBLE PARKING ARE PER GRADING PLANS AND PER DETAIL H1/L408 & H5/L408
4. CURVE 106 HAS RADIAL POINT # 103, SEE POINT TABLE ON SHEET C-5, POINT NOT SHOWN ON PLAN
5. CURVE 114 HAS RADIAL POINT # 128, SEE POINT TABLE ON SHEET C-5, POINT NOT SHOWN ON PLAN
6. CURVE 117 HAS RADIAL POINT # 113, SEE POINT TABLE ON SHEET C-5, POINT NOT SHOWN ON PLAN
7. SCORING WITHIN PLAZA AREA IS PER LANDSCAPE PLANS
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LEGEND

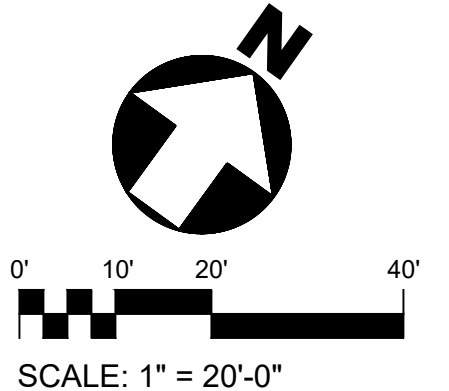
- LIMIT OF WORK
- BW BOTTOM OF WALL
- EP EDGE OF PAVEMENT
- RP RADIAL POINT

REVISION DATES (DESIGN STAGE ONLY)

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

CITY OF LOS ANGELES DEPARTMENT OF PUBLIC WORKS BUREAU OF ENGINEERING

ENGINEERING CITY OF LOS ANGELES															
BUREAU OF ENGINEERING CLIENT: DEPARTMENT OF RECREATION & PARKS GENERAL MANAGER:															
SHEET TITLE: HORIZONTAL CONTROL PLAN, SHEET 4 OF 4 PROJECT: RIO DE LOS ANGELES STATE PARK FIELDS MAINTENANCE IMPROVEMENTS PROJECT ADDRESS: 1900 WEST SAN FERNANDO ROAD, LOS ANGELES, CA, 90039															
NO. _____	DATE _____														
REVISION DESCRIPTION _____	BY _____														
INDEX NO. RP-300125	CIP NO. G1188														
<table border="1" style="width: 100%; border-collapse: collapse;"> <tr> <td style="width: 50%;">ENGINEER: TED ALLEN, P.E., CITY ENGINEER</td> <td style="width: 50%;">DATE:</td> </tr> <tr> <td>DESIGN GROUP:</td> <td></td> </tr> <tr> <td>ARCHITECT: RICHARD W. FISHER, LANDSCAPE ARCHITECT I</td> <td></td> </tr> <tr> <td>DESIGNED BY: ERNESTO GONZALEZ, LANDSCAPE ARCH. ASSOCIATE II</td> <td>7/13/2023</td> </tr> <tr> <td>DRAWN BY: RICHARD W. FISHER, LANDSCAPE ARCHITECT I</td> <td></td> </tr> <tr> <td>CHECKED BY:</td> <td></td> </tr> <tr> <td>APPROVED BY:</td> <td></td> </tr> </table>		ENGINEER: TED ALLEN, P.E., CITY ENGINEER	DATE:	DESIGN GROUP:		ARCHITECT: RICHARD W. FISHER, LANDSCAPE ARCHITECT I		DESIGNED BY: ERNESTO GONZALEZ, LANDSCAPE ARCH. ASSOCIATE II	7/13/2023	DRAWN BY: RICHARD W. FISHER, LANDSCAPE ARCHITECT I		CHECKED BY:		APPROVED BY:	
ENGINEER: TED ALLEN, P.E., CITY ENGINEER	DATE:														
DESIGN GROUP:															
ARCHITECT: RICHARD W. FISHER, LANDSCAPE ARCHITECT I															
DESIGNED BY: ERNESTO GONZALEZ, LANDSCAPE ARCH. ASSOCIATE II	7/13/2023														
DRAWN BY: RICHARD W. FISHER, LANDSCAPE ARCHITECT I															
CHECKED BY:															
APPROVED BY:															
<table border="1" style="width: 100%; border-collapse: collapse;"> <tr> <td style="width: 50%;">WORK ORDER NO. E1908951</td> <td style="width: 50%;">FILE NO. 999</td> </tr> <tr> <td colspan="2" style="text-align: center;">L504</td> </tr> <tr> <td colspan="2" style="text-align: center;">SHEET 65 OF 100 SHEETS</td> </tr> </table>		WORK ORDER NO. E1908951	FILE NO. 999	L504		SHEET 65 OF 100 SHEETS									
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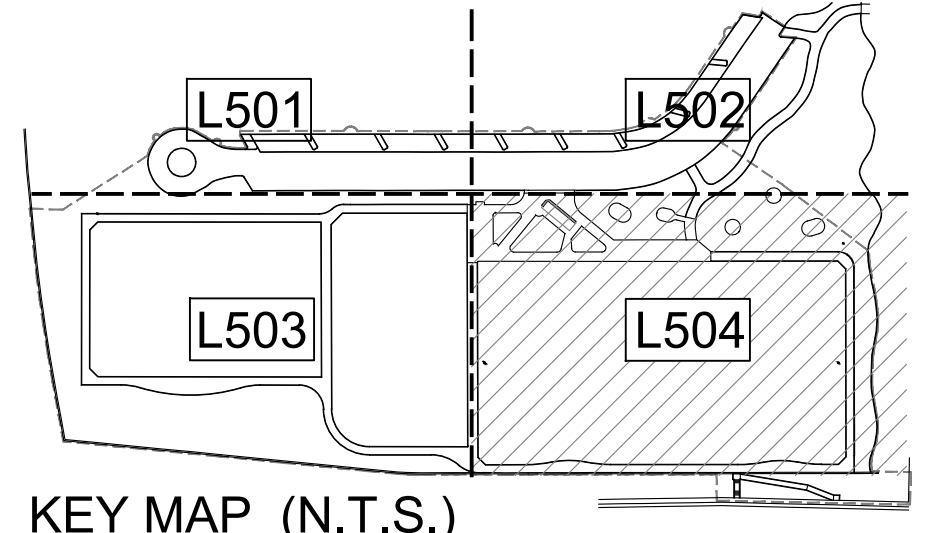


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REVISION DATES (DESIGN STAGE ONLY)
A
B
C
D
E
F
G
H
J
K
L

POINT DATA TABLE

POINT #	EASTING	NORTHING
0	6490334.72	1857704.79
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2	6490341.48	1857712.89
3	6490348.91	1857711.74
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17	6490451.64	1857793.53
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282	6490722.74	1857969.11
283	6490963.53	1857890.12



ENGINEERING
CITY OF LOS ANGELES

THIS PLAN WAS ELECTRONICALLY SIGNED AND STAMPED

BUREAU OF ENGINEERING
CLIENT: DEPARTMENT OF RECREATION & PARKS
GENERAL MANAGER:
SHEET TITLE: HORIZONTAL CONTROL POINT TABLE
PROJECT: RIO DE LOS ANGELES STATE PARK FIELDS MAINTENANCE IMPROVEMENTS PROJECT
ADDRESS: 1900 WEST SAN FERNANDO ROAD, LOS ANGELES, CA, 90039

INDEX NO. **RP-300125**
CIP NO. **G1188**

CITY ENGINEER: TED ALLEN, P.E.
DESIGNED BY: RICHARD W. FISHER, LANDSCAPE ARCH

IRRIGATION NOTES

HIGH STATIC PRESSURE - 166 PSI
 LOW STATIC PRESSURE - 148 PSI

- INFORMATION PROVIDED BY LADWP ON 05/05/2023. THE IRRIGATION SYSTEM DESIGN IS BASED ON A MINIMUM OPERATING PRESSURE OF 50 P.S.I. AND A MAXIMUM FLOW DEMAND OF 46.4 G.P.M. THE CONTRACTOR SHALL VERIFY AVAILABLE WATER PRESSURE PRIOR TO CONSTRUCTION, AND REPORT ANY DIFFERENCE BETWEEN WATER PRESSURE AND AVAILABLE FLOW INDICATED ON THE DRAWINGS AND THE ACTUAL READING AT THE IRRIGATION POINT OF CONNECTION IMMEDIATELY TO THE PROJECT MANAGER.
- BEFORE COMMENCING ANY EXCAVATION, THE CONTRACTOR SHALL OBTAIN AN UNDERGROUND SERVICE ALERT I.D. NUMBER BY CALLING 1-800-422-4133. PROVIDE TWO (2) WORKING DAYS AFTER THE NUMBER IS OBTAINED AND BEFORE THE EXCAVATION WORK IS STARTED SO THAT UTILITY OWNERS CAN BE NOTIFIED.
- THE CONTRACTOR SHALL VERIFY THE LOCATIONS OF ALL EXISTING UTILITIES, STRUCTURES AND SERVICES BEFORE COMMENCING WORK. THE LOCATIONS OF ANY UTILITIES, STRUCTURES AND SERVICES SHOWN IN THESE PLANS ARE APPROXIMATE ONLY. ANY DISCREPANCIES BETWEEN THESE PLANS AND ACTUAL FIELD CONDITIONS SHALL BE REPORTED TO THE PROJECT MANAGER IMMEDIATELY. THE CONTRACTOR SHALL PROMPTLY REPAIR OR REPLACE ANY EXISTING OR NEWLY CONSTRUCTED UTILITIES OR SITE FEATURES DAMAGED BY HIS WORK AT HIS OWN EXPENSE.
- THESE IRRIGATION PLANS ARE FOR THE MODIFICATION OF AN EXISTING IRRIGATION SYSTEM THAT INCLUDES EXTENSIVE AREA OF IRRIGATION EQUIPMENT LOCATED OUTSIDE THIS LIMIT OF WORK. CONTRACTOR SHALL INTERCEPT EXISTING MAINLINES AND CONTROL WIRES AT DESIGNATED P.O.C. LOCATIONS SHOWN IN PLANS AND VERIFIED IN THE FIELD. CONTRACTOR SHALL ENSURE THE NORMAL OPERATION OF ALL EXISTING IRRIGATION SYSTEMS LOCATED OUTSIDE THIS LIMIT OF WORK DURING THE PERIOD OF CONSTRUCTION. IN THE CASE OF ANY INTERRUPTION OF THE EXISTING IRRIGATION OUTSIDE THE L.O.W. CAUSED BY THE CONTRACTOR, THE CONTRACTOR SHALL BE RESPONSIBLE FOR PROVIDING IRRIGATION TO THOSE AREAS BY ANY MEANS NECESSARY, AND REPLACEMENT OF ANY PLANT MATERIAL OR TURF DAMAGED BY THE INTERRUPTION OF WATERING.
- ANY EXISTING IRRIGATION SYSTEM COMPONENTS DEPICTED HEREIN ARE BASED UPON AS-BUILT RECORD DRAWINGS, AND ARE SHOWN HERE FOR INFORMATIONAL PURPOSES ONLY. CONTRACTOR SHALL VERIFY THE LOCATION OF ALL EXISTING SYSTEM COMPONENTS TO REMAIN PRIOR TO BEGINNING IN CONSTRUCTION ACTIVITIES. CONTRACTOR SHALL IMMEDIATELY NOTIFY PROJECT MANAGER OF ANY SUBSTANTIAL DISCREPANCIES BETWEEN AS-BUILT AND EXISTING CONDITIONS.
- THE CONTRACTOR SHALL NOT FULLY INSTALL ANY EQUIPMENT AS SHOWN ON THE PLANS WHEN IT IS OBVIOUS IN THE FIELD THAT CONDITIONS OR OBSTRUCTIONS EXIST THAT WERE UNKNOWN AT THE TIME THESE PLANS WERE PREPARED. CONTRACTOR SHALL IMMEDIATELY NOTIFY THE PROJECT MANAGER OF ANY SUCH CONDITIONS PRIOR TO PERFORMING ANY AFFECTED WORK. IN THE EVENT THAT THIS NOTIFICATION IS NOT GIVEN, THE CONTRACTOR SHALL ASSUME FULL RESPONSIBILITY FOR ANY NECESSARY MODIFICATIONS TO COMPLETED WORK.

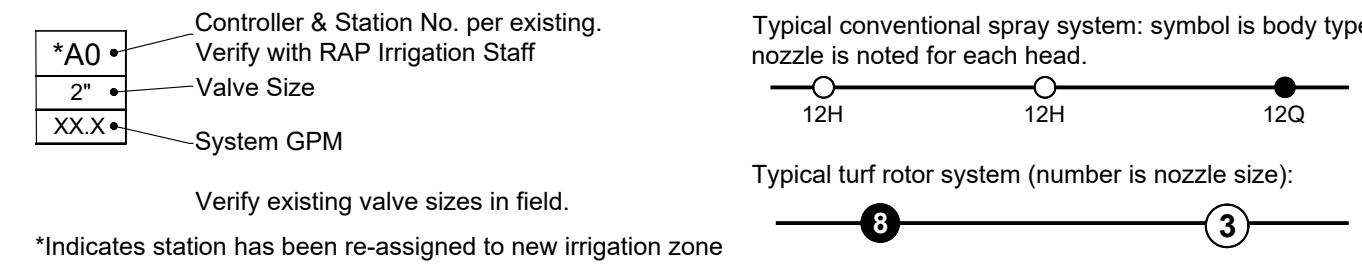
- THIS DESIGN IS DIAGRAMMATIC. ALL PIPING, VALVES, ETC. SHOWN WITHIN PAVED AREAS ARE FOR CLARITY ONLY AND SHALL BE INSTALLED IN PLANTING AREAS. SET ALL VALVES AND QUICK COUPLERS ADJACENT TO WALKS OR PAVED SURFACES PER DETAILS. ALL IRRIGATION PRESSURE AND LATERAL LINES AND CONTROL WIRING THAT PASS UNDER PAVING SHALL BE SLEEVED PER LANDSCAPE CONSTRUCTION NOTES. ALL IRRIGATION SPRAY HEADS SHALL BE 24-INCHES AWAY FROM ANY NON-PERMEABLE SURFACE.
- ANY TRENCHES DUG TO ACCOMMODATE NEW IRRIGATION LINES OR CONTROL WIRE CONDUIT THAT PASS INSIDE THE PROTECTED ROOT AREA OF AN EXISTING TREE ARE SUBJECT TO THE REQUIREMENTS LISTED IN THE SECTION "TREE PROTECTION GUIDELINES" OF THE SPECIFICATIONS.
- CONTRACTOR SHALL COORDINATE HIS WORK WITH OTHER CONTRACTORS FOR THE LOCATION AND INSTALLATION OF PIPE SLEEVES AND LATERALS UNDER PAVING IN A TIMELY MANNER. SEE TRENCHING DETAIL FOR SLEEVING REQUIREMENTS.
- THE CONTRACTOR SHALL FLUSH AND PRESSURE TEST ALL MAINLINES PER IRRIGATION SPECIFICATIONS. CONTRACTOR SHALL FLUSH ALL LATERAL LINES AND IRRIGATION HEADS PER THE IRRIGATION SPECIFICATIONS.
- THE INTENT OF THESE IRRIGATION PLANS IS TO PROVIDE 100% COVERAGE TO ALL PLANTING AREAS. AS PART OF THE SCOPE OF WORK, CONTRACTOR SHALL PROVIDE ANY ADDITIONAL HEADS, SPECIAL NOZZLES, OR PATTERNS TO ACHIEVE PROPER COVERAGE WITH A MINIMUM OF OVERSPRAY AT NO ADDITIONAL COST TO THE CITY.
- UPON COMPLETION OF INSTALLATION, CONTRACTOR SHALL CONDUCT A COVERAGE TEST PER IRRIGATION SPECIFICATIONS. CONTRACTOR SHALL NOTIFY PROJECT MANAGER TO REQUEST THE TEST, WHICH WILL BE SCHEDULED AT THE SOONEST DATE POSSIBLE PER AVAILABILITY OF RAP AND CITY STAFF.
- REFER TO LANDSCAPE IRRIGATION SPECIFICATIONS FOR ADDITIONAL INFORMATION REGARDING THIS SECTION OF WORK.
- ALL NEW VALVES SHALL USE EXISTING VALVE & STATION NUMBERING PER AS-BUILT IRRIGATION PLAN. VERIFY WITH RAP IRRIGATION STAFF.
- ALL IRRIGATION EQUIPMENT (HEADS, VALVES, ETC. - NOT INCLUDING PIPE OR CONTROL WIRE) DESIGNATED TO BE REMOVED SHALL BE SALVAGED BY THE CONTRACTOR. UPON NOTIFICATION BY THE CONTRACTOR, THE PROJECT MANAGER SHALL NOTIFY RAP MAINTENANCE STAFF, AND THEY WILL TAKE POSSESSION OF ANY SALVAGED MATERIALS THEY WISH TO RE-USE. THE CONTRACTOR SHALL DISPOSE OF ALL REMAINING MATERIAL PER GENERAL REQUIREMENTS AND SPECIFICATIONS.
- PRESSURE REGULATING DEVICES ARE REQUIRED IF WATER PRESSURE IS BELOW OR EXCEEDS THE RECOMMENDED PRESSURE OF THE SPECIFIED IRRIGATION DEVICES
- CHECK VALVES OR ANTI-DRAIN VALVES ARE REQUIRED ON ALL SPRINKLER HEADS WHERE LOW POINT DRAINAGE COULD OCCUR.

IRRIGATION EQUIPMENT LEGEND

SYMBOL	DESCRIPTION
	EX 4" RECYCLED water meter (Not shown on plan - refer to original irrigation plan for location)
	Existing Controller A: Calsense ET-1-RR-G (Not shown on plan - refer to as-built irrigation plan for location)
	Existing Remote Control Valve to remain - protect in place
	Existing Remote Control Valve to be removed. (Cap mainline P.O.C. for valve, typ. Leave valve box in place.)
	New Remote Control Valve: Rainbird EFB brass valve - see plan callout for valve size. Install per detail H13/L606. P.O.C. for all new remote control valves is at location of existing valve as indicated - Connect new remote control valve to existing control wiring, Typ. Remove existing valve and salvage per irrigation notes & specifications. Controller station number shall remain the same
	Existing Irrigation Mainline/lateral to be abandoned in place
	Existing CL 200 gasketed mainline pipe. Location shown on plan per original irrigation drawings - Verify location in field.
	New PVC Class 200 gasketed pipe with restrained fittings as required per details A1/L606 and E5/L606. Size per plan.
	Existing PVC sch. 40 Lateral Line piping. Location shown on plan per original irrigation drawings - Verify location in field.
	New PVC sch. 40 Lateral Line piping; solvent weld. Size as noted. Install per detail E5/L606
	Existing PVC sch. 40 Lateral Line piping
	PVC sch. 40 Sleeve under paving. Sleeve shall be two pipe sizes greater than piping which is to run in the sleeve.
	Existing Quick Coupling Valve. Protect in place unless noted otherwise
	Rainbird 44-NP 2-Piece 1" Brass Quick Coupling Valve with non-potable cover. Provide one quick coupler key with brass hose swivel for each 5 valves installed. See detail E1/L606
	Existing Manifold gate valve. Protect in place.
	New line-sized Manifold gate valve. Install per detail H9/L606
	Existing Isolation valve. Protect in place.
	New line-sized Isolation valve. Install per detail H1/L606

----- Limit of Work

IRRIGATION VALVE LEGEND



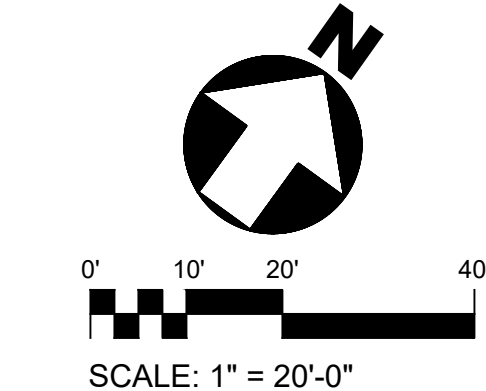
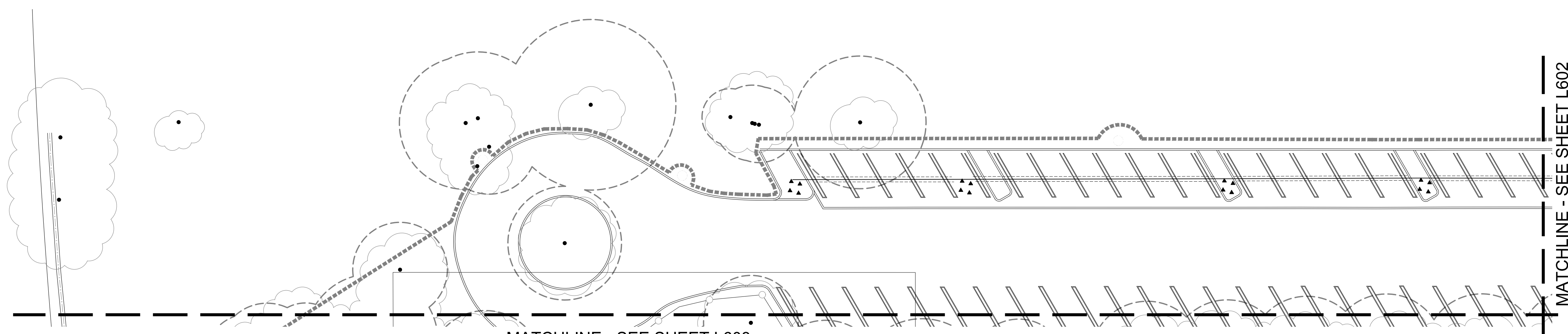
IRRIGATION HEADS LEGEND

SYMBOL	DESCRIPTION	GPM	SPACING	NOZZLE PRESSURE	PRECIP. RATE	DETAIL NUMBER
	Rainbird 6504-PC-SS-NP (with non-potable cover) Pop-up spray body with #6 nozzle as noted, typ.	4.9	43"	50 psi	0.47 in/hr	A13/L606
	Rainbird 6504-FC-SS-NP (with non-potable cover) Pop-up spray body with #10 nozzle as noted, typ.	8.1	46"	50 psi	1.20 in/hr	A13/L606
	Rainbird 6504-PC-SS-NP (with non-potable cover) Pop-up spray body with #10 nozzle as noted, typ.	8.1	46"	50 psi	0.60 in/hr	A13/L606
	Rainbird 5012-PCSAMRNP-MPR 12" POP UP with non-potable cover, internal check valve, and pressure regulation. Install MPR nozzle with arc and radius as noted for each head.	(var)	25'-35'	30 psi	(var)	E13/L606
	Existing Rainbird 12" POP UP Spray Head Refer to original irrigation drawings for specific nozzle model. See plan callout for further instructions.	(var)	12'-18'	30 psi	(var)	E13/L606
	Rainbird 1806-SAM-PRS (with non-potable cover) Pop-up spray body with Rain Bird 5-series MPR multi-stream bubbler nozzle (5CST-B)	0.5	5'	30 psi	--	E13/L606
	Rainbird 1806-SAM-PRS (with non-potable cover) Pop-up spray body with Rain Bird 15-strip series end strip pattern nozzle (15EST). Turn down adjustment screw to adjust radius to an approximate 7' radius.	0.61	5'	30 psi	--	E13/L606
	Rainbird RWS-M-B-C-1402 Root watering system assembly with pressure compensating bubbler with non-potable cover.	0.5	--	--	--	A9/L606
	Existing Head To be removed. Cap lateral line after removal of spray body if indicated on plans.	--	--	--	--	--

- MP Rotor Nozzle Legend:
 by Hunter Industries, Inc.
- BK MP2000 90-210 deg. (BLACK)
 - MR MP1000 90-120 deg. (MAROON)
 - OL MP1000 360 deg. (OLIVE)
 - SS MPSS-530 Side Strip (BROWN)
 - LCS MPLCS-515 Left Corner Strip (IVORY)
 - RCS MPRCS-515 Right Corner Strip (COPPER)

KEYNOTES

- FOR EXISTING TURF FIELDS: REMOVE ALL SURFACE IRRIGATION EQUIPMENT AND CAP LATERAL LINES AT REMOTE CONTROL VALVE. ABANDON ALL LATERAL LINES IN PLACE SALVAGE IRRIGATION HEADS PER IRRIGATION SPECIFICATIONS.
- MODIFY LOCATION OF EXISTING IRRIGATION MAINLINE AS SHOWN ON PLAN TO ENSURE THAT NO PORTION OF MAINLINE SHALL BE WITHIN THE FOOTPRINT OF THE NEW SYNTHETIC TURF SPORTS FIELDS. REFER TO ORIGINAL IRRIGATION PLANS FOR APPROXIMATE LOCATION OF EXISTING MAINLINE. FIELD VERIFY, TYP.

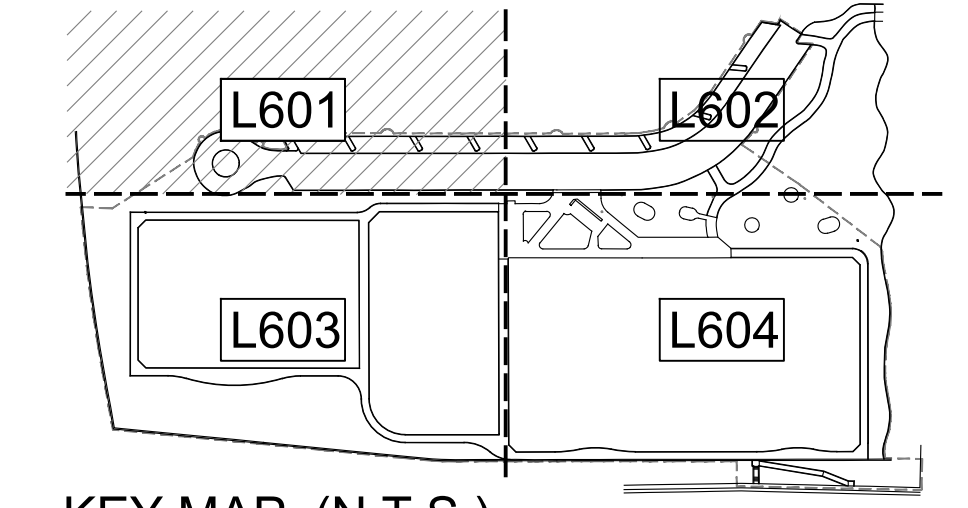


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Underground Service Alert of Southern California



ENGINEERING
 CITY OF LOS ANGELES

BUREAU OF ENGINEERING
 CLIENT: DEPARTMENT OF RECREATION & PARKS
 GENERAL MANAGER: [Name]
 SHEET TITLE: IRRIGATION PLAN, SHEET 1 OF 4
 PROJECT: RIO DE LOS ANGELES STATE PARK FIELDS MAINTENANCE IMPROVEMENTS PROJECT
 ADDRESS: 1900 WEST SAN FERNANDO ROAD, LOS ANGELES, CA, 90039

DEPARTMENT OF PUBLIC WORKS
 INDEX NO. RP-300125
 CIP NO. G1188

CITY OF LOS ANGELES
 ENGINEER: TED ALLEN, P.E., CITY ENGINEER
 ARCHITECT: RICHARD W. FISHER, LANDSCAPE ARCHITECT
 DESIGNED BY: ERNESTO GONZALEZ, LANDSCAPE ARCH. ASSOCIATE II
 DRAWN BY: RICHARD W. FISHER, LANDSCAPE ARCHITECT
 CHECKED BY: [Name]
 APPROVED BY: [Name]

WORK ORDER NO. E1908951
 FILE NO. 999
 DRAWING NO. L601
 SHEET 67 OF 100 SHEETS

REVISION DATES (DESIGN STAGE ONLY)

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

REVISION DATES (DESIGN STAGE ONLY)

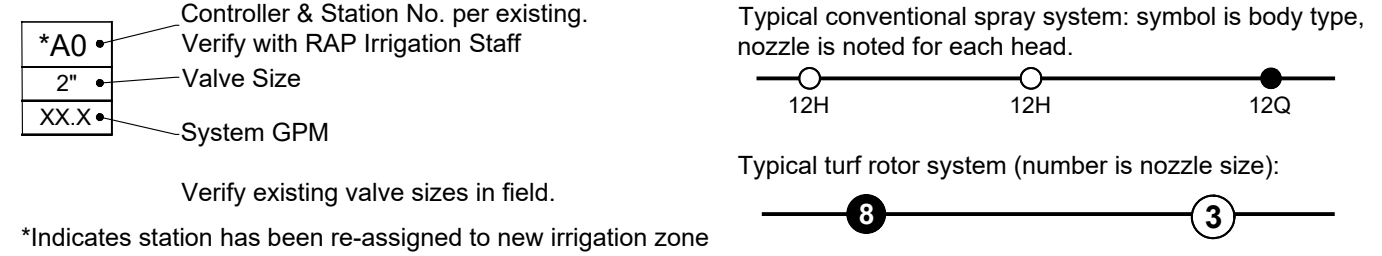
THE CITY OF LOS ANGELES OR ITS OFFICERS OR AGENTS SHALL NOT BE RESPONSIBLE FOR THE ACCURACY OR COMPLETENESS OF ELECTRONIC COPIES OF THIS PLAN SHEET.

IRRIGATION EQUIPMENT LEGEND

SYMBOL	DESCRIPTION
W	EX 4" RECYCLED water meter (Not shown on plan - refer to original irrigation plan for location)
▲	Existing Controller A: Calsense ET-1-RR-G (Not shown on plan - refer to as-built irrigation plan for location)
⊕	Existing Remote Control Valve to remain - protect in place
⊖	Existing Remote Control Valve to be removed. (Cap mainline P.O.C. for valve, typ. Leave valve box in place.)
⊗	New Remote Control Valve: Rainbird EFB brass valve - see plan callout for valve size. Install per detail H13/L606. P.O.C. for all new remote control valves is at location of existing valve as indicated - Connect new remote control valve to existing control wiring. Typ. Remove existing valve and salvage per irrigation notes & specifications. Controller station number shall remain the same
---	Existing Irrigation Mainline/lateral to be abandoned in place
---	Existing CL 200 gasketed mainline pipe. Location shown on plan per original irrigation drawings - Verify location in field.
---	New PVC Class 200 gasketed pipe with restrained fittings as required per details A1/L606 and E5/L606. Size per plan.
---	Existing PVC sch. 40 Lateral Line piping. Location shown on plan per original irrigation drawings - Verify location in field.
---	New PVC sch. 40 Lateral Line piping; solvent weld. Size as noted. Install per detail E5/L606
---	Existing PVC sch. 40 Lateral Line piping
---	PVC sch. 40 Sleeve under paving. Sleeve shall be two pipe sizes greater than piping which is to run in the sleeve.
●	Existing Quick Coupling Valve. Protect in place unless noted otherwise
●	Rainbird 44-NP 2-Piece 1" Brass Quick Coupling Valve with non-potable cover. Provide one quick coupler key with brass hose swivel for each 5 valves installed. See detail E1/L606
⊕	Existing Manifold gate valve. Protect in place.
⊖	New line-sized Manifold gate valve. Install per detail H9/L606
⊗	Existing Isolation valve. Protect in place.
⊗	New line-sized Isolation valve. Install per detail H1/L606

----- Limit of Work

IRRIGATION VALVE LEGEND

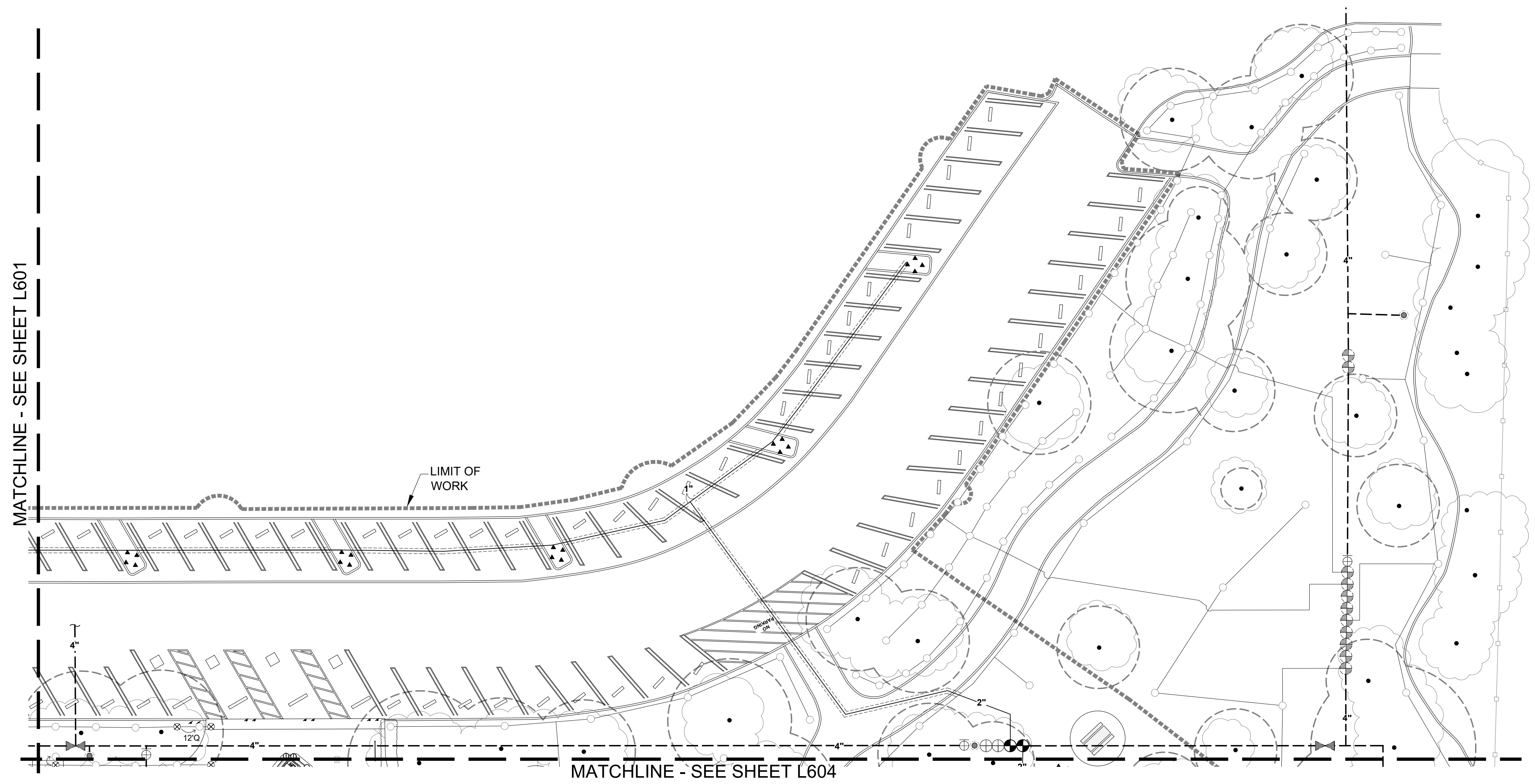


IRRIGATION HEADS LEGEND

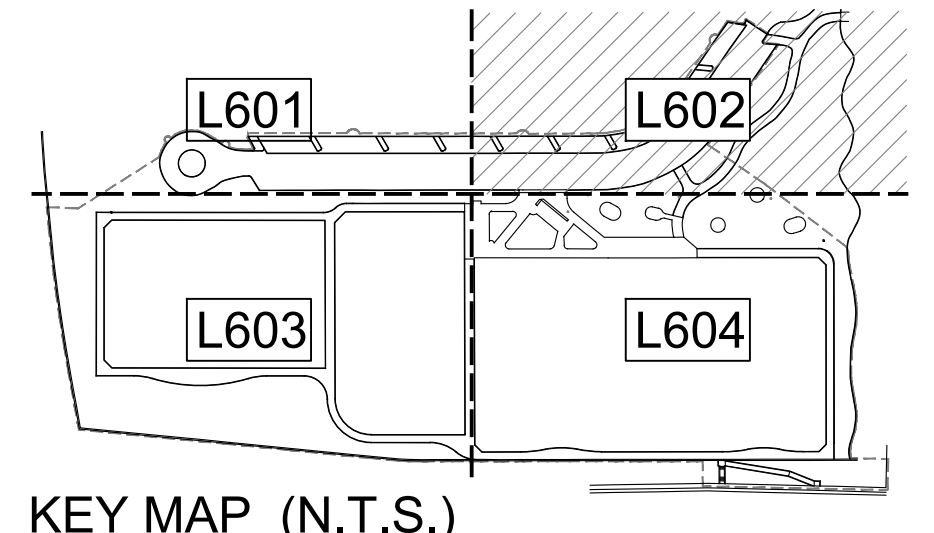
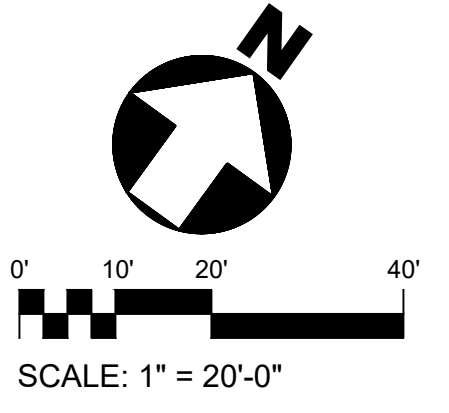
SYMBOL	DESCRIPTION	GPM	SPACING	NOZZLE PRESSURE	PRECIP. RATE	DETAIL NUMBER
⊖	Rainbird 6504-PC-SS-NP (with non-potable cover) Pop-up spray body with #6 nozzle as noted, typ.	4.9	43"	50 psi	0.47 in/hr	A13/L606
⊖	Rainbird 6504-FC-SS-NP (with non-potable cover) Pop-up spray body with #10 nozzle as noted, typ.	8.1	46"	50 psi	1.20 in/hr	A13/L606
⊖	Rainbird 6504-PC-SS-NP (with non-potable cover) Pop-up spray body with #10 nozzle as noted, typ.	8.1	46"	50 psi	0.60 in/hr	A13/L606
○	Rainbird 5012-PCSAMRNP-MPR 12" POP UP with non-potable cover, internal check valve, and pressure regulation. Install MPR nozzle with arc and radius as noted for each head.	(var)	25'-35'	30 psi	(var)	E13/L606
○	Existing Rainbird 12" POP UP Spray Head Refer to original irrigation drawings for specific nozzle model. See plan callout for further instructions.	(var)	12'-18'	30 psi	(var)	E13/L606
●	Rainbird 1806-SAM-PRS (with non-potable cover) Pop-up spray body with Rain Bird 5-series MPR multi-stream bubbler nozzle (5CST-B)	0.5	5'	30 psi	--	E13/L606
⊖	Rainbird 1806-SAM-PRS (with non-potable cover) Pop-up spray body with Rain Bird 15-strip series end strip pattern nozzle (15EST). Turn down adjustment screw to adjust radius to an approximate 7' radius.	0.61	5'	30 psi	--	E13/L606
▲	Rainbird RWS-M-B-C-1402 Root watering system assembly with pressure compensating bubbler with non-potable cover.	0.5	--	--	--	A9/L606
⊗	Existing Head To be removed. Cap lateral line after removal of spray body if indicated on plans.	--	--	--	--	--

- MP Rotor Nozzle Legend:**
 by Hunter Industries, Inc.
- BK MP2000 90-210 deg. (BLACK)
 - MR MP1000 90-120 deg. (MAROON)
 - OL MP1000 360 deg. (OLIVE)
 - SS MPSS-530 Side Strip (BROWN)
 - LCS MPLCS-515 Left Corner Strip (IVORY)
 - RCS MPRCS-515 Right Corner Strip (COPPER)

- KEYNOTES**
- FOR EXISTING TURF FIELDS: REMOVE ALL SURFACE IRRIGATION EQUIPMENT AND CAP LATERAL LINES AT REMOTE CONTROL VALVE. ABANDON ALL LATERAL LINES IN PLACE SALVAGE IRRIGATION HEADS PER IRRIGATION SPECIFICATIONS.
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C3	2"	76	C4	1-1/2"	55
E7	2"	81	E8	1-1/2"	53
C5	1-1/4"	37	C6	1-1/2"	52
E9	2"	77	E10	2"	76
C7	1-1/4"	30			



ENGINEERING
 CITY OF LOS ANGELES

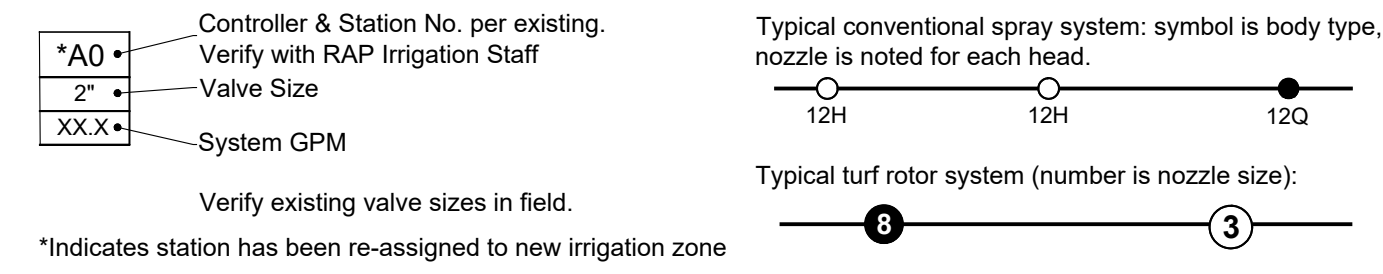
BUREAU OF ENGINEERING
 CLIENT: DEPARTMENT OF RECREATION & PARKS
 GENERAL MANAGER: [Name]
 SHEET TITLE: IRRIGATION PLAN, SHEET 2 OF 4
 PROJECT: RIO DE LOS ANGELES STATE PARK FIELDS MAINTENANCE IMPROVEMENTS PROJECT
 ADDRESS: 1900 WEST SAN FERNANDO ROAD, LOS ANGELES, CA, 90039

DEPARTMENT OF PUBLIC WORKS
 INDEX NO. RP-300125
 CIP NO. G1188

CITY OF LOS ANGELES
 ENGINEER: TED ALLEN, P.E., CITY ENGINEER
 ARCHITECT: RICHARD W. FISHER, LANDSCAPE ARCHITECT I
 DESIGNED BY: ERNESTO GONZALEZ, LANDSCAPE ARCH. ASSOCIATE II | 7/13/2023
 DRAWN BY: RICHARD W. FISHER, LANDSCAPE ARCHITECT I
 CHECKED BY: [Name]
 APPROVED BY: [Name]

WORK ORDER NO. E1908951
 FILE NO. 999
 DRAWING NO. L602
 SHEET 68 OF 100 SHEETS

IRRIGATION VALVE LEGEND



IRRIGATION HEADS LEGEND

SYMBOL	DESCRIPTION	GPM	SPACING	NOZZLE PRESSURE	PRECIP. RATE	DETAIL NUMBER
⊖	Rainbird 6504-PC-SS-NP (with non-potable cover) Pop-up spray body with #6 nozzle as noted, typ.	4.9	43'	50 psi	0.47 in/hr	A13/L606
⊖	Rainbird 6504-FC-SS-NP (with non-potable cover) Pop-up spray body with #10 nozzle as noted, typ.	8.1	46'	50 psi	1.20 in/hr	A13/L606
⊖	Rainbird 6504-PC-SS-NP (with non-potable cover) Pop-up spray body with #10 nozzle as noted, typ.	8.1	46'	50 psi	0.60 in/hr	A13/L606
○	Rainbird 5012-PCSAMRNP-MPR 12" POP UP with non-potable cover, internal check valve, and pressure regulation. install MPR nozzle with arc and radius as noted for each head.	(var)	25'-35'	30 psi	(var)	E13/L606
○	Existing Rainbird 12" POP UP Spray Head Refer to original irrigation drawings for specific nozzle model. See plan callout for further instructions.	(var)	12'-18'	30 psi	(var)	E13/L606
⊖	Rainbird 1806-SAM-PRS (with non-potable cover) Pop-up spray body with Rain Bird 5-series MPR multi-stream bubbler nozzle (5CST-B)	0.5	5'	30 psi	---	E13/L606
⊖	Rainbird 1806-SAM-PRS (with non-potable cover) Pop-up spray body with Rain Bird 15-strip series end strip pattern nozzle (15EST). Turn down adjustment screw to adjust radius to an approximate 7' radius.	0.61	5'	30 psi	---	E13/L606
▲	Rainbird RWS-M-B-C-1402 Root watering system assembly with pressure compensating bubbler with non-potable cover.	0.5	---	---	---	A9/L606
⊗	Existing Head To be removed. Cap lateral line after removal of spray body if indicated on plans.	---	---	---	---	---

*A26	*A25	*A24	*A23	*A22	C12	C11
2"	2"	2"	2"	2"	1-1/4"	2"
30.0	23.3	41.2	28.0	36.4	36	75

C10	*A21	*A20	*A19	*A18
1-1/2"	2"	2"	2"	2"
52	36.4	36.4	36.4	36.4

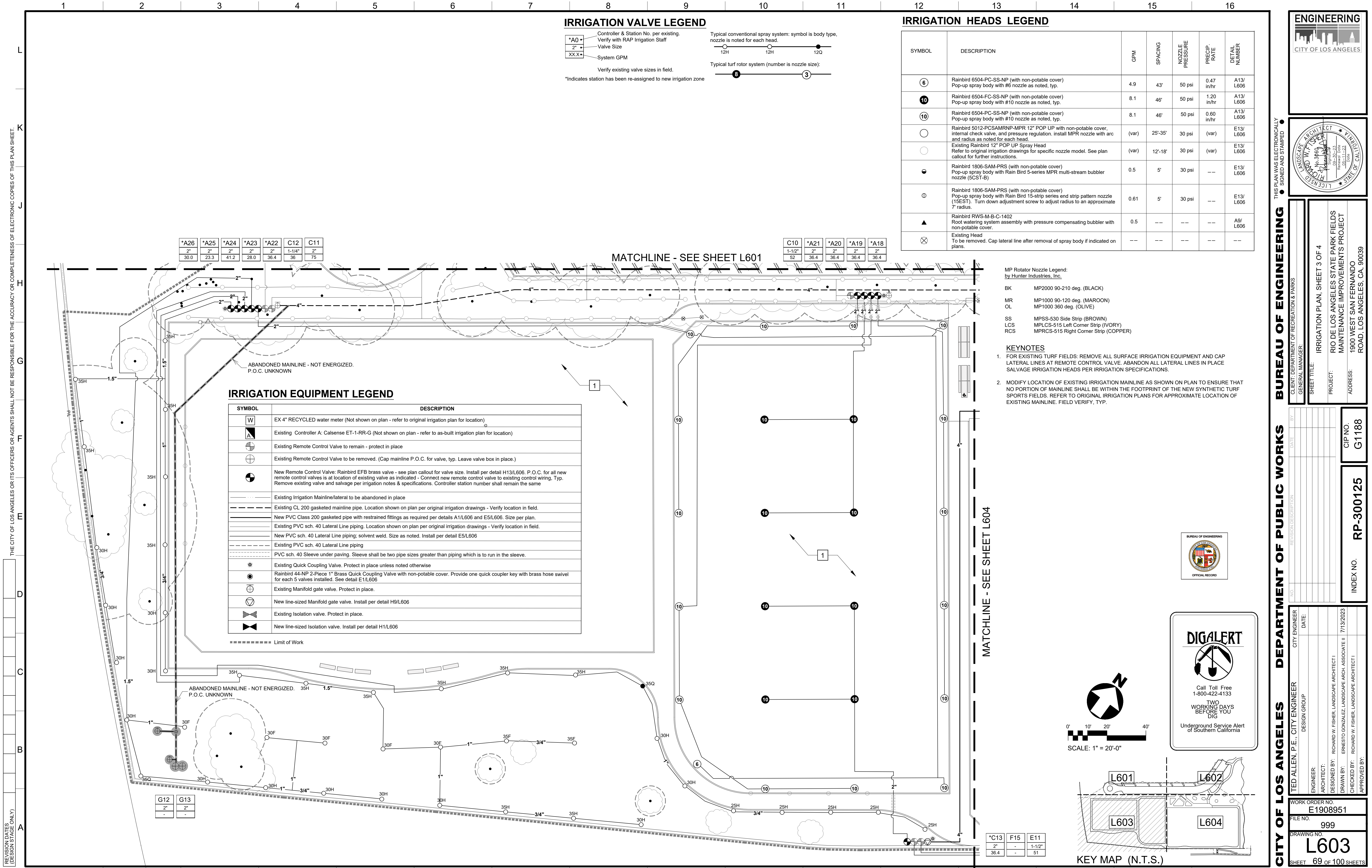
MATCHLINE - SEE SHEET L601

IRRIGATION EQUIPMENT LEGEND

SYMBOL	DESCRIPTION
W	EX 4" RECYCLED water meter (Not shown on plan - refer to original irrigation plan for location)
▲	Existing Controller A: Calsense ET-1-RR-G (Not shown on plan - refer to as-built irrigation plan for location)
⊕	Existing Remote Control Valve to remain - protect in place
⊕	Existing Remote Control Valve to be removed. (Cap mainline P.O.C. for valve, typ. Leave valve box in place.)
⊕	New Remote Control Valve: Rainbird EFB brass valve - see plan callout for valve size. Install per detail H13/L606. P.O.C. for all new remote control valves is at location of existing valve as indicated - Connect new remote control valve to existing control wiring, Typ. Remove existing valve and salvage per irrigation notes & specifications. Controller station number shall remain the same
---	Existing Irrigation Mainline/lateral to be abandoned in place
---	Existing CL 200 gasketed mainline pipe. Location shown on plan per original irrigation drawings - Verify location in field.
---	New PVC Class 200 gasketed pipe with restrained fittings as required per details A1/L606 and E5/L606. Size per plan.
---	Existing PVC sch. 40 Lateral Line piping. Location shown on plan per original irrigation drawings - Verify location in field.
---	New PVC sch. 40 Lateral Line piping, solvent weld. Size as noted. Install per detail E5/L606
---	Existing PVC sch. 40 Lateral Line piping
---	PVC sch. 40 Sleeve under paving. Sleeve shall be two pipe sizes greater than piping which is to run in the sleeve.
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⊕	New line-sized Manifold gate valve. Install per detail H9/L606
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⊕	New line-sized Isolation valve. Install per detail H1/L606
---	Limit of Work

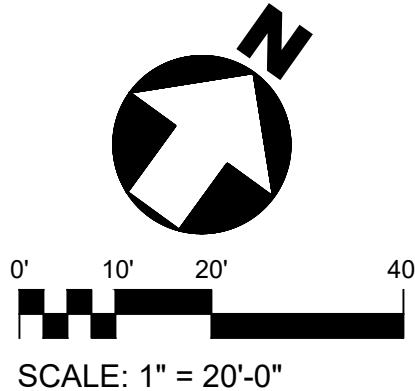
- MP Rotator Nozzle Legend:
by Hunter Industries, Inc.
- BK MP2000 90-210 deg. (BLACK)
 - MR MP1000 90-120 deg. (MAROON)
 - OL MP1000 360 deg. (OLIVE)
 - SS MPSS-530 Side Strip (BROWN)
 - LCS MPLCS-515 Left Corner Strip (IVORY)
 - RCS MPRCS-515 Right Corner Strip (COPPER)

- KEYNOTES**
- FOR EXISTING TURF FIELDS: REMOVE ALL SURFACE IRRIGATION EQUIPMENT AND CAP LATERAL LINES AT REMOTE CONTROL VALVE. ABANDON ALL LATERAL LINES IN PLACE SALVAGE IRRIGATION HEADS PER IRRIGATION SPECIFICATIONS.
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G12	G13
2"	2"
-	-

*C13	F15	E11
2"	-	1-1/2"
36.4	-	51

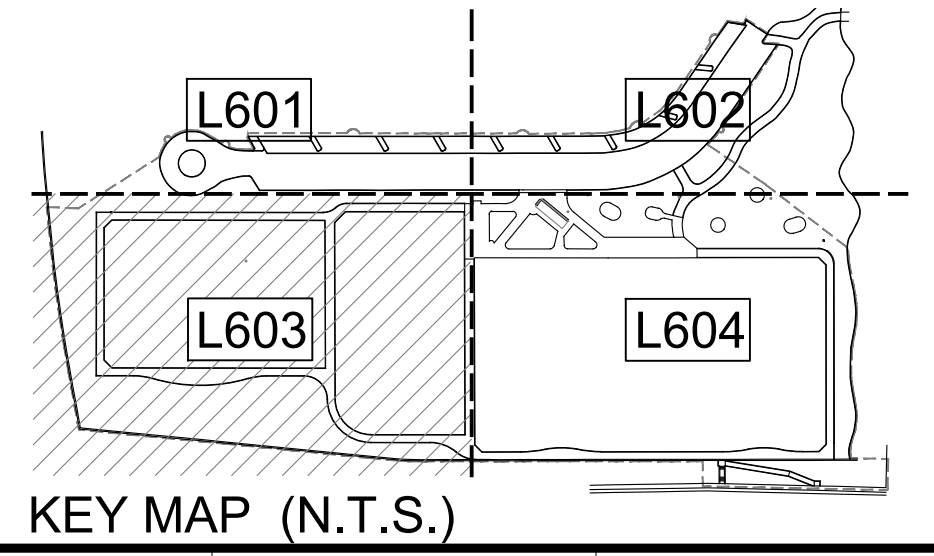


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ENGINEERING
CITY OF LOS ANGELES

BUREAU OF ENGINEERING

CLIENT: DEPARTMENT OF RECREATION & PARKS
GENERAL MANAGER: [Name]
SHEET TITLE: IRRIGATION PLAN, SHEET 3 OF 4
PROJECT: RIO DE LOS ANGELES STATE PARK FIELDS MAINTENANCE IMPROVEMENTS PROJECT
ADDRESS: 1900 WEST SAN FERNANDO ROAD, LOS ANGELES, CA, 90039

INDEX NO. **RP-300125**
CIP NO. **G1188**

NO. [] DATE [] BY []
REVISION DESCRIPTION

CITY OF LOS ANGELES DEPARTMENT OF PUBLIC WORKS

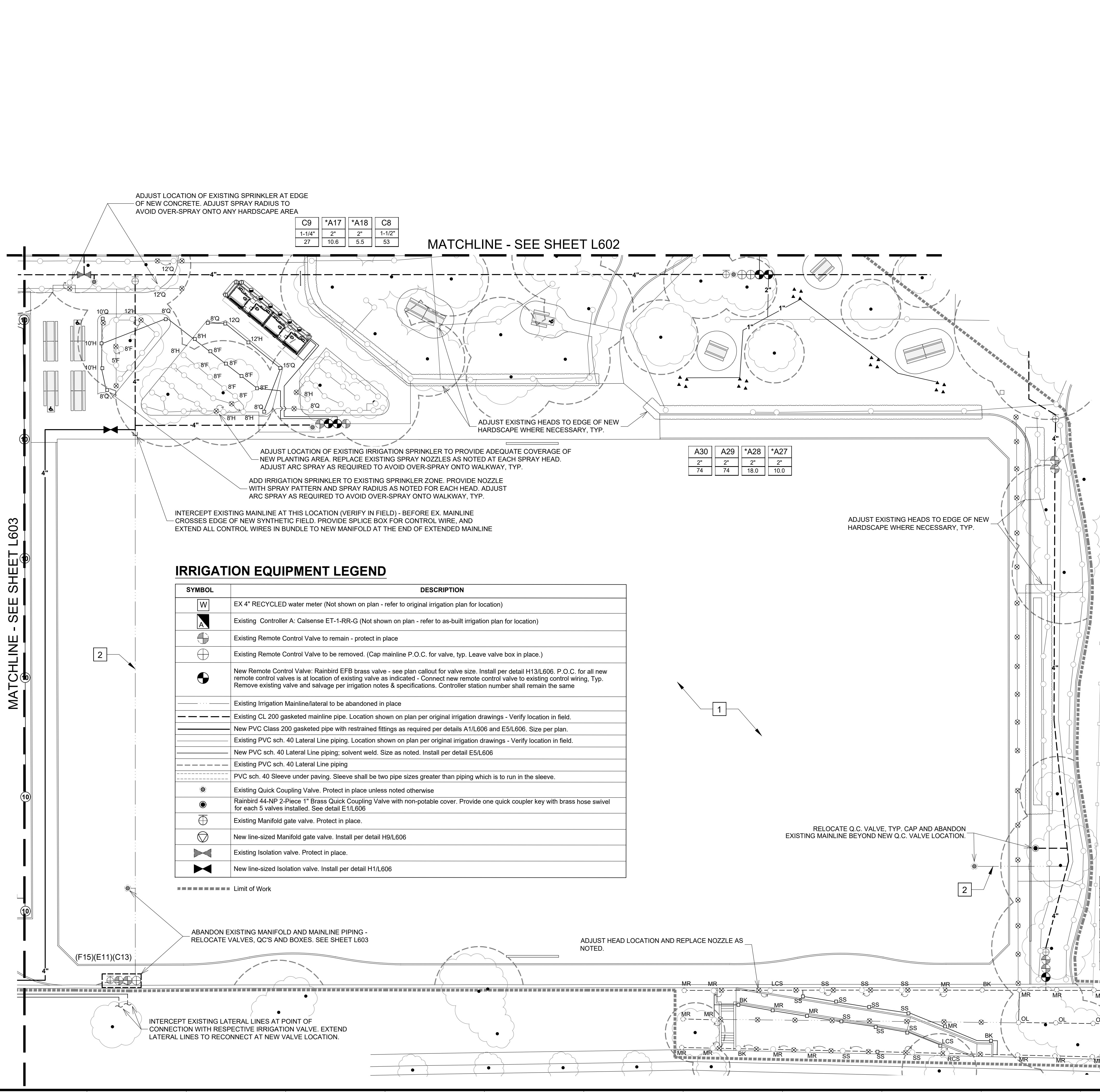
TED ALLEN, P.E., CITY ENGINEER
DESIGN GROUP

ENGINEER: []
ARCHITECT: RICHARD W. FISHER, LANDSCAPE ARCHITECT
DESIGNED BY: ERNESTO GONZALEZ, LANDSCAPE ARCH. ASSOCIATE II | 7/13/2023
DRAWN BY: RICHARD W. FISHER, LANDSCAPE ARCHITECT
CHECKED BY: []
APPROVED BY: []

WORK ORDER NO. **E1908951**
FILE NO. **999**
DRAWING NO. **L603**
SHEET **69** OF 100 SHEETS

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

REVISION DATES (DESIGN STAGE ONLY)



C9	*A17	*A18	C8
1-1/4"	2"	2"	1-1/2"
27	10.6	5.5	53

A30	A29	*A28	*A27
2"	2"	2"	2"
74	74	18.0	10.0

IRRIGATION HEADS LEGEND

SYMBOL	DESCRIPTION	GPM	SPACING	NOZZLE PRESSURE	PRECIP. RATE	DETAIL NUMBER
⊖	Rainbird 6504-PC-SS-NP (with non-potable cover) Pop-up spray body with #6 nozzle as noted, typ.	4.9	43"	50 psi	0.47 in/hr	A13/L606
⊖	Rainbird 6504-FC-SS-NP (with non-potable cover) Pop-up spray body with #10 nozzle as noted, typ.	8.1	46"	50 psi	1.20 in/hr	A13/L606
⊖	Rainbird 6504-PC-SS-NP (with non-potable cover) Pop-up spray body with #10 nozzle as noted, typ.	8.1	46"	50 psi	0.60 in/hr	A13/L606
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○	Existing Rainbird 12" POP UP Spray Head Refer to original irrigation drawings for specific nozzle model. See plan callout for further instructions.	(var)	12'-18'	30 psi	(var)	E13/L606
●	Rainbird 1806-SAM-PRS (with non-potable cover) Pop-up spray body with Rain Bird 5-series MPR multi-stream bubbler nozzle (5CST-B)	0.5	5'	30 psi	--	E13/L606
⊖	Rainbird 1806-SAM-PRS (with non-potable cover) Pop-up spray body with Rain Bird 15-strip series end strip pattern nozzle (15EST). Turn down adjustment screw to adjust radius to an approximate 7' radius.	0.61	5'	30 psi	--	E13/L606
▲	Rainbird RWS-M-B-C-1402 Root watering system assembly with pressure compensating bubbler with non-potable cover.	0.5	--	--	--	A9/L606
⊗	Existing Head To be removed. Cap lateral line after removal of spray body if indicated on plans.	--	--	--	--	--

MP Rotator Nozzle Legend:
by Hunter Industries, Inc.

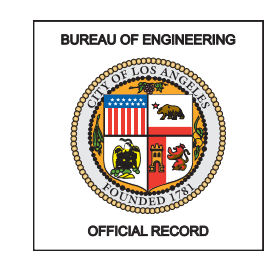
BK MP2000 90-210 deg. (BLACK)
MR MP1000 90-120 deg. (MAROON)
OL MP1000 360 deg. (OLIVE)
SS MPSS-530 Side Strip (BROWN)
LCS MPLCS-515 Left Corner Strip (IVORY)
RCS MPRCS-515 Right Corner Strip (COPPER)

KEYNOTES

- FOR EXISTING TURF FIELDS: REMOVE ALL SURFACE IRRIGATION EQUIPMENT AND CAP LATERAL LINES AT REMOTE CONTROL VALVE. ABANDON ALL LATERAL LINES IN PLACE SALVAGE IRRIGATION HEADS PER IRRIGATION SPECIFICATIONS.
- MODIFY LOCATION OF EXISTING IRRIGATION MAINLINE AS SHOWN ON PLAN TO ENSURE THAT NO PORTION OF MAINLINE SHALL BE WITHIN THE FOOTPRINT OF THE NEW SYNTHETIC TURF SPORTS FIELDS. REFER TO ORIGINAL IRRIGATION PLANS FOR APPROXIMATE LOCATION OF EXISTING MAINLINE. FIELD VERIFY, TYP.

IRRIGATION EQUIPMENT LEGEND

SYMBOL	DESCRIPTION
W	EX 4" RECYCLED water meter (Not shown on plan - refer to original irrigation plan for location)
⊖	Existing Controller A: Calsense ET-1-RR-G (Not shown on plan - refer to as-built irrigation plan for location)
⊖	Existing Remote Control Valve to remain - protect in place
⊖	Existing Remote Control Valve to be removed. (Cap mainline P.O.C. for valve, typ. Leave valve box in place.)
⊖	New Remote Control Valve: Rainbird EFB brass valve - see plan callout for valve size. Install per detail H13/L606. P.O.C. for all new remote control valves is at location of existing valve as indicated - Connect new remote control valve to existing control wiring. Typ. Remove existing valve and salvage per irrigation notes & specifications. Controller station number shall remain the same
---	Existing Irrigation Mainline/lateral to be abandoned in place
---	Existing CL 200 gasketed mainline pipe. Location shown on plan per original irrigation drawings - Verify location in field.
---	New PVC Class 200 gasketed pipe with restrained fittings as required per details A1/L606 and E5/L606. Size per plan.
---	Existing PVC sch. 40 Lateral Line piping. Location shown on plan per original irrigation drawings - Verify location in field.
---	New PVC sch. 40 Lateral Line piping; solvent weld. Size as noted. Install per detail E5/L606
---	Existing PVC sch. 40 Lateral Line piping
---	PVC sch. 40 Sleeve under paving. Sleeve shall be two pipe sizes greater than piping which is to run in the sleeve.
⊖	Existing Quick Coupling Valve. Protect in place unless noted otherwise
⊖	Rainbird 44-NP 2-Piece 1" Brass Quick Coupling Valve with non-potable cover. Provide one quick coupler key with brass hose swivel for each 5 valves installed. See detail E1/L606
⊖	Existing Manifold gate valve. Protect in place.
⊖	New line-sized Manifold gate valve. Install per detail H9/L606
⊖	Existing Isolation valve. Protect in place.
⊖	New line-sized Isolation valve. Install per detail H1/L606
---	Limit of Work

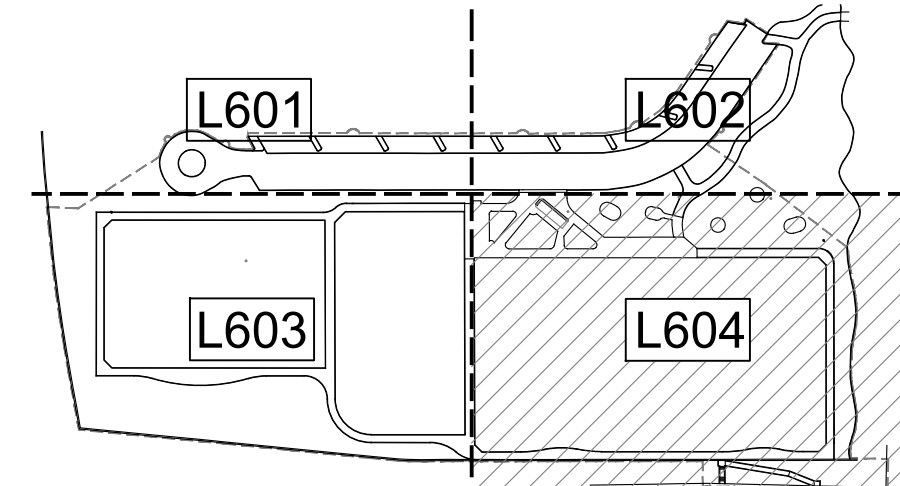
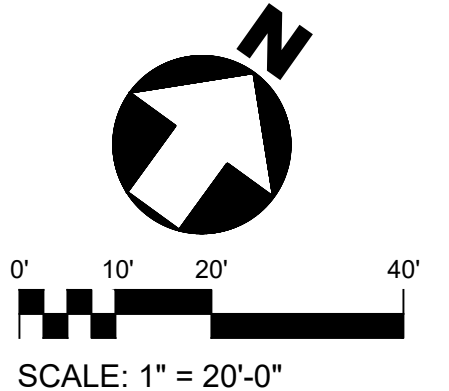


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ENGINEERING
CITY OF LOS ANGELES

BUREAU OF ENGINEERING
CLIENT: DEPARTMENT OF RECREATION & PARKS
GENERAL MANAGER: [Name]
SHEET TITLE: IRRIGATION PLAN, SHEET 4 OF 4
PROJECT: RIO DE LOS ANGELES STATE PARK FIELDS MAINTENANCE IMPROVEMENTS PROJECT
ADDRESS: 1900 WEST SAN FERNANDO ROAD, LOS ANGELES, CA. 90039

DEPARTMENT OF PUBLIC WORKS
CITY ENGINEER: TED ALLEN, P.E., CITY ENGINEER
DESIGN GROUP: [Name]
ARCHITECT: RICHARD W. FISHER, LANDSCAPE ARCHITECT
DESIGNED BY: RICHARD W. FISHER, LANDSCAPE ARCHITECT
DRAWN BY: ERNESTO GONZALEZ, LANDSCAPE ARCH. ASSOCIATE II | 7/13/2023
CHECKED BY: RICHARD W. FISHER, LANDSCAPE ARCHITECT
APPROVED BY: [Name]

INDEX NO. **RP-300125**
CIP NO. **G1188**

WORK ORDER NO. **E1908951**
FILE NO. **999**
DRAWING NO. **L604**
SHEET **70** OF **100** SHEETS

WATER EFFICIENT LANDSCAPE CALCULATIONS

ZONE #	HYDROZONE DESCRIPTION	PF	IRRIGATION METHOD	IE	ETAF (PF/IE)	AREA (SQ. FT.)	ETAF x AREA	ETWU
REGULAR LANDSCAPE AREAS								
1	(SLA) NATURAL TURF SPORTS FIELD (MIDDLE FIELD)	0.80	TURF ROTOR	0.75	1.06	34,745	36,829.70	11,553.51
2	PARK PERIMETER LANDSCAPE (SOUTH SIDE)	0.20	MP ROTATOR (OVERHEAD)	0.75	0.27	31,665	8,549.55	22,853.87
3	BATHROOM PLANTER & VINE TRELLIS	0.35	STREAM BUBBLER	0.81	0.43	96	41.28	22,853.87
	** (5) TREES IN EXISTING LAWN AREA (5-EAST SIDE)	0.60	TREE BUBBLER	0.81	0.74	80	59.20	22,853.87
	** (9) TREES IN PARKING LOT ISLAND PLANTERS	0.20	TREE BUBBLER	0.81	0.25	144	36	22,853.87
TOTAL PROJECT LANDSCAPE AREA						66,730		
WATER USE CALCULATIONS								
FORMULA	CALCULATIONS							TOTAL
ETWU	$(50.1)(0.62)(36,829.70) + (50.1)(0.62)(8,549.55) + (50.1)(0.62)(41.28) + (50.1)(0.62)(59.20) + (50.1)(0.62)(36) =$							1,413,849.59
MAWA	$(50.1)(0.62)[(0.45 \times 66,730) + ((1-0.45) \times 34,745)] =$							1,526,340.10

**EACH TREE IS ASSIGNED 16 SQUARE FEET FOR LANDSCAPE AREA CALCULATION PURPOSES
 *ENTIRE PROJECT SITE IS IRRIGATED WITH RECYCLED WATER

HYDROZONE LEGEND

ZONE #	SYMBOL	HYDROZONE DESCRIPTION	IRRIGATION METHOD	AREA (SQ. FT.)	WUCOLS
1	(Diagonal lines)	(SLA) NATURAL TURF SPORTS FIELD (MIDDLE FIELD)	TURF ROTOR	34,745	HIGH
2	(Dotted pattern)	PARK PERIMETER LANDSCAPE (SOUTH SIDE)	MP ROTATOR (OVERHEAD)	31,665	VERY LOW
3	(Cross-hatch pattern)	BATHROOM PLANTER & VINE TRELLIS	STREAM BUBBLER	96	LOW / MODERATE / MEDIUM
	(Diagonal lines)	TREES IN EXISTING LAWN AREA (EAST SIDE)	TREE BUBBLER	80	MODERATE / MEDIUM
	(Dotted pattern)	TREES IN PARKING LOT ISLAND PLANTERS	TREE BUBBLER	144	VERY LOW

FORMULAS
 ETWU = (ETo) (0.62) (ETAF) (LA)
 MAWA = (ETo) (0.62) [(ETAF x LA) + ((1-ETAF) x SLA)]

ABBREVIATIONS
 ETo = REFERENCE EVAPOTRANSPIRATION RATE FOR LOS ANGELES, CA (50.1 INCHES PER YEAR)
 ETAF = EVAPOTRANSPIRATION ADJUSTMENT FACTOR (PLANT FACTOR DIVIDED BY IRRIGATION EFFICIENCY, ETAF FOR MAWA CALCULATION TO BE 0.45 FOR NON-RESIDENTIAL AREAS PER MWELO GUIDELINES)
 ETWU = ESTIMATED TOTAL WATER USE (GALLONS PER YEAR)
 IE = IRRIGATION EFFICIENCY (0.81 FOR DRIP/LOW VOLUME AND 0.75 FOR OVERHEAD PER MWELO GUIDELINES)
 LA = LANDSCAPE AREA (SQUARE FEET)
 MAWA = MAXIMUM APPLIED WATER ALLOWANCE (GALLONS PER YEAR)
 PF = PLANT FACTOR (< 0.1 FOR VERY LOW, 0.1 - 0.3 FOR LOW, 0.4 - 0.6 FOR MODERATE/MEDIUM AND 0.7 - 0.9 FOR HIGH WATER NEEDS PER WUCOLS)
 SLA = SPECIAL LANDSCAPE AREA (SQUARE FEET)
 0.62 = CONVERSION FACTOR (FROM ACRE-INCHES PER ACRE PER YEAR TO GALLONS PER SQUARE FOOT PER YEAR PER MWELO GUIDELINES)

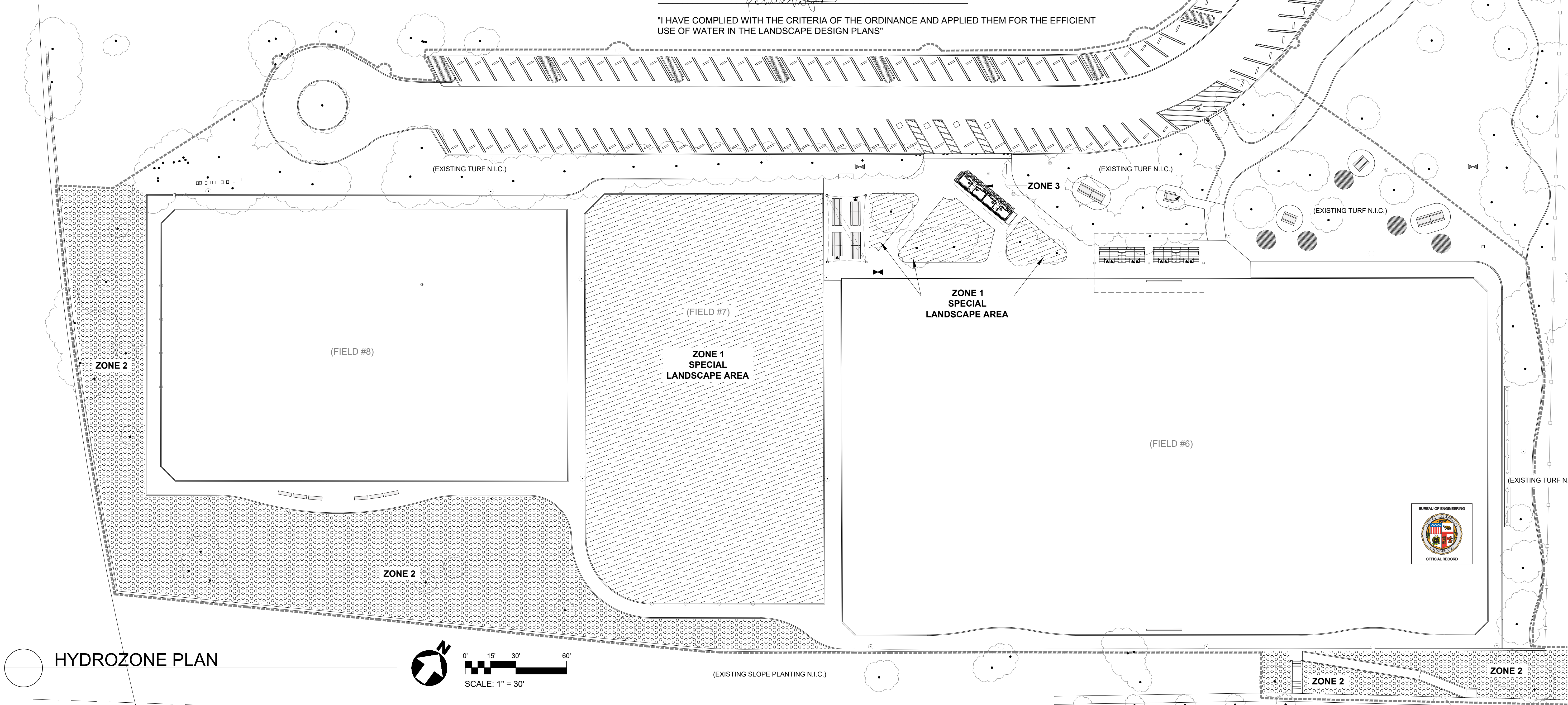
REQUIRED STATEMENTS & CERTIFICATION

1. AN IRRIGATION AUDIT REPORT SHALL BE COMPLETED AT THE TIME OF FINAL INSPECTION
2. A DIAGRAM OF THE IRRIGATION PLAN SHOWING HYDROZONES SHALL BE KEPT WITH THE IRRIGATION CONTROLLER FOR SUBSEQUENT MANAGEMENT PURPOSES.
3. A CERTIFICATE OF COMPLETION SHALL BE FILLED OUT AND CERTIFIED BY EITHER THE SIGNER OF THE LANDSCAPE PLANS, THE SIGNER OF THE IRRIGATION PLANS, OR THE LICENSED LANDSCAPE CONTRACTOR FOR THE PROJECT.

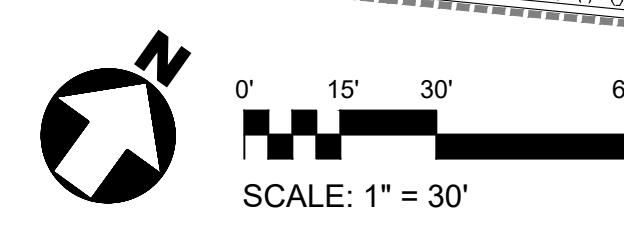
"I AGREE TO COMPLY WITH THE REQUIREMENTS OF THE WATER EFFICIENT LANDSCAPE ORDINANCE AND SUBMIT A COMPLETE LANDSCAPE DOCUMENTATION PACKAGE"

[Signature]

"I HAVE COMPLIED WITH THE CRITERIA OF THE ORDINANCE AND APPLIED THEM FOR THE EFFICIENT USE OF WATER IN THE LANDSCAPE DESIGN PLANS"



HYDROZONE PLAN



ENGINEERING
CITY OF LOS ANGELES

BUREAU OF ENGINEERING

CLIENT: DEPARTMENT OF RECREATION & PARKS
 GENERAL MANAGER: _____

SHEET TITLE: **HYDROZONE PLAN & WATER USE CALCULATIONS**

PROJECT: **RIO DE LOS ANGELES STATE PARK FIELDS MAINTENANCE IMPROVEMENTS PROJECT**

ADDRESS: **1900 WEST SAN FERNANDO ROAD, LOS ANGELES, CA, 90039**

INDEX NO. **RP-300125**

CIP NO. **G1188**

DEPARTMENT OF PUBLIC WORKS

CITY ENGINEER: **TED ALLEN, P.E.**

DESIGNED BY: **RICHARD W. FISHER, LANDSCAPE ARCHITECT I**

DRAWN BY: **ERNESTO GONZALEZ, LANDSCAPE ARCH. ASSOCIATE II**

CHECKED BY: **RICHARD W. FISHER, LANDSCAPE ARCHITECT I**

APPROVED BY: _____

DATE: **7/13/2023**

WORK ORDER NO. **E1908951**

FILE NO. **999**

DRAWING NO. **L605**

SHEET **71** OF 100 SHEETS

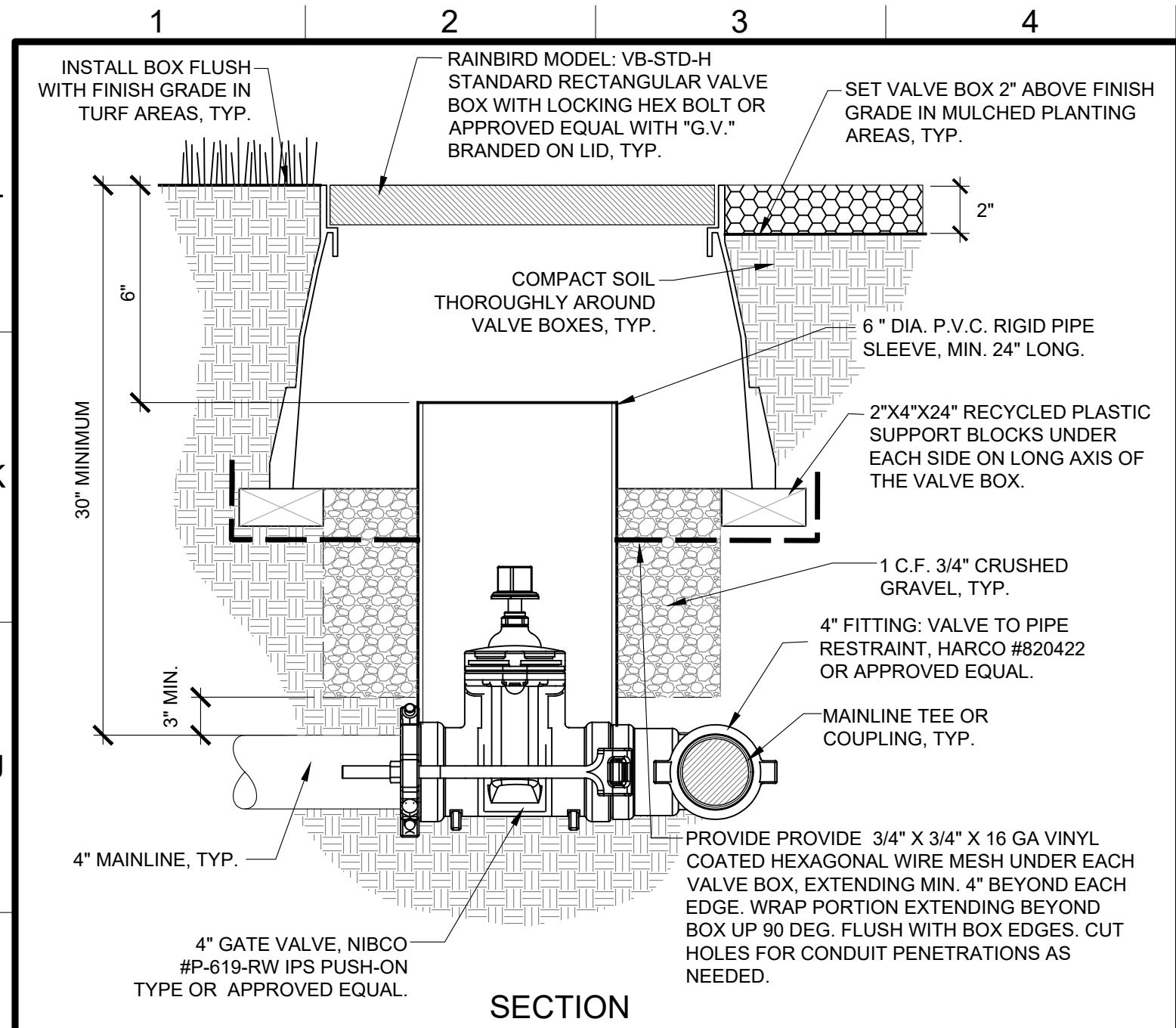
REVISION DATES (DESIGN STAGE ONLY)

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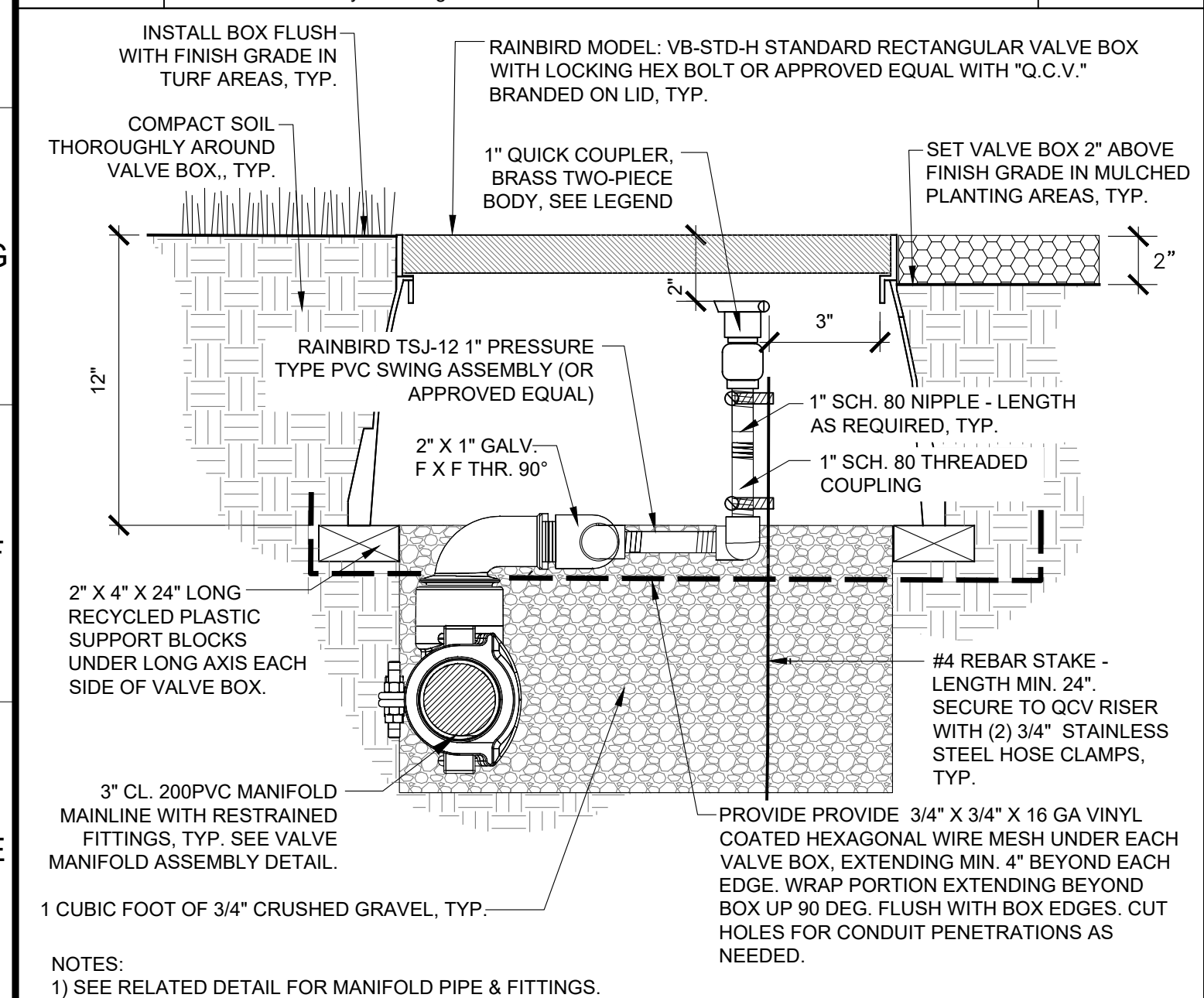
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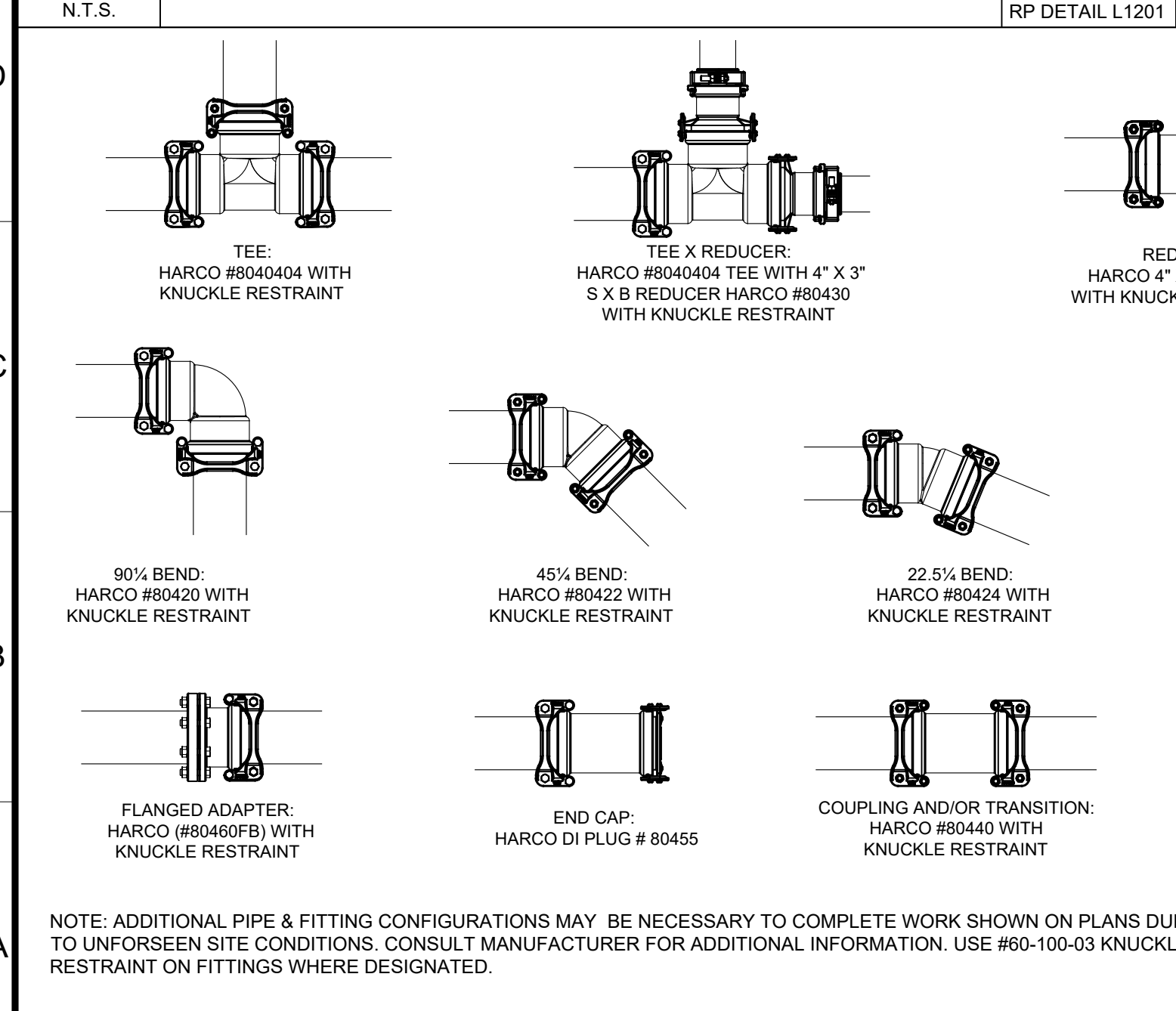
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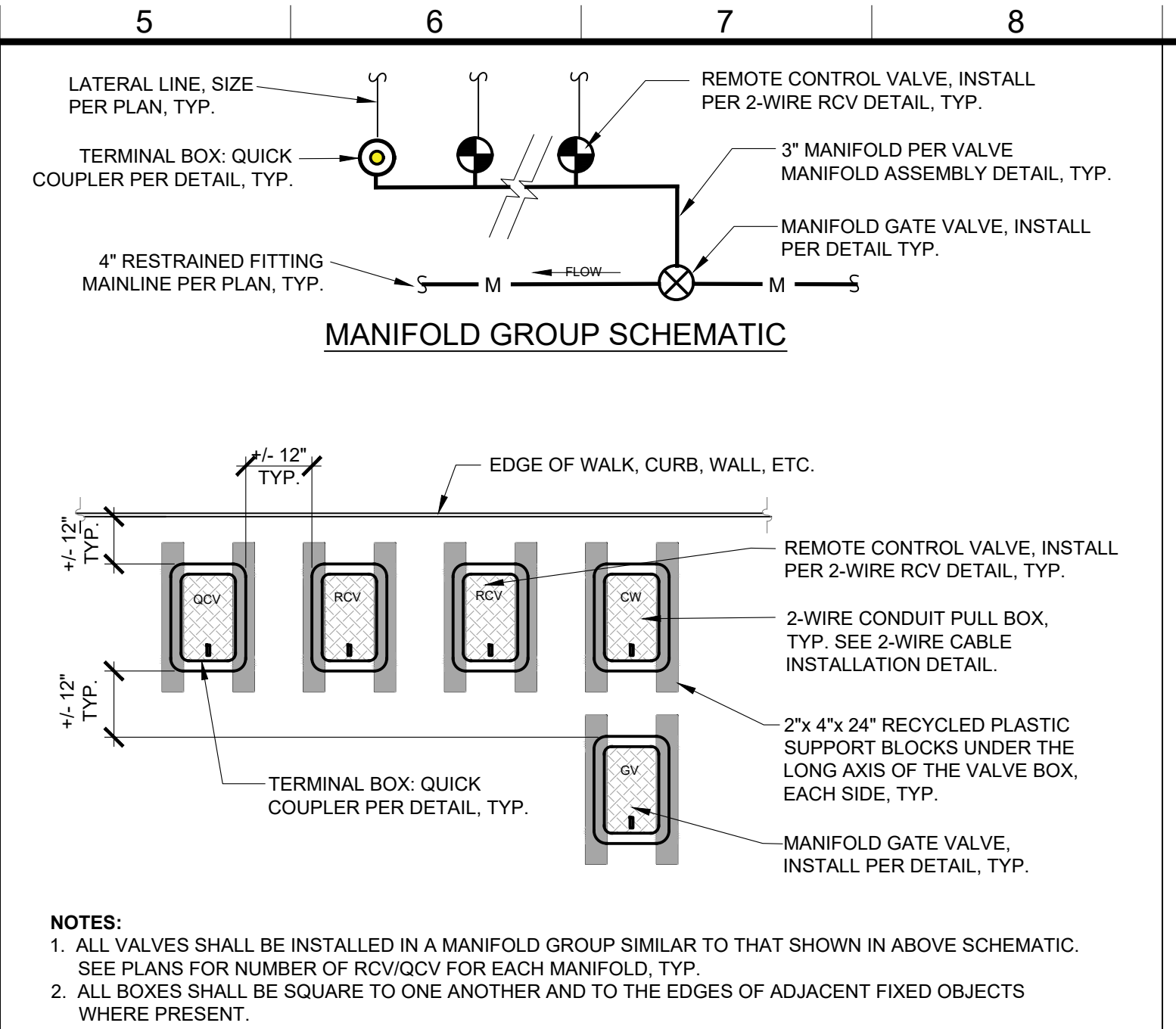
H1 4" MAINLINE ISOLATION VALVE
N.T.S. BOE VERSION May/17 - RF/gm RP DETAIL L1101



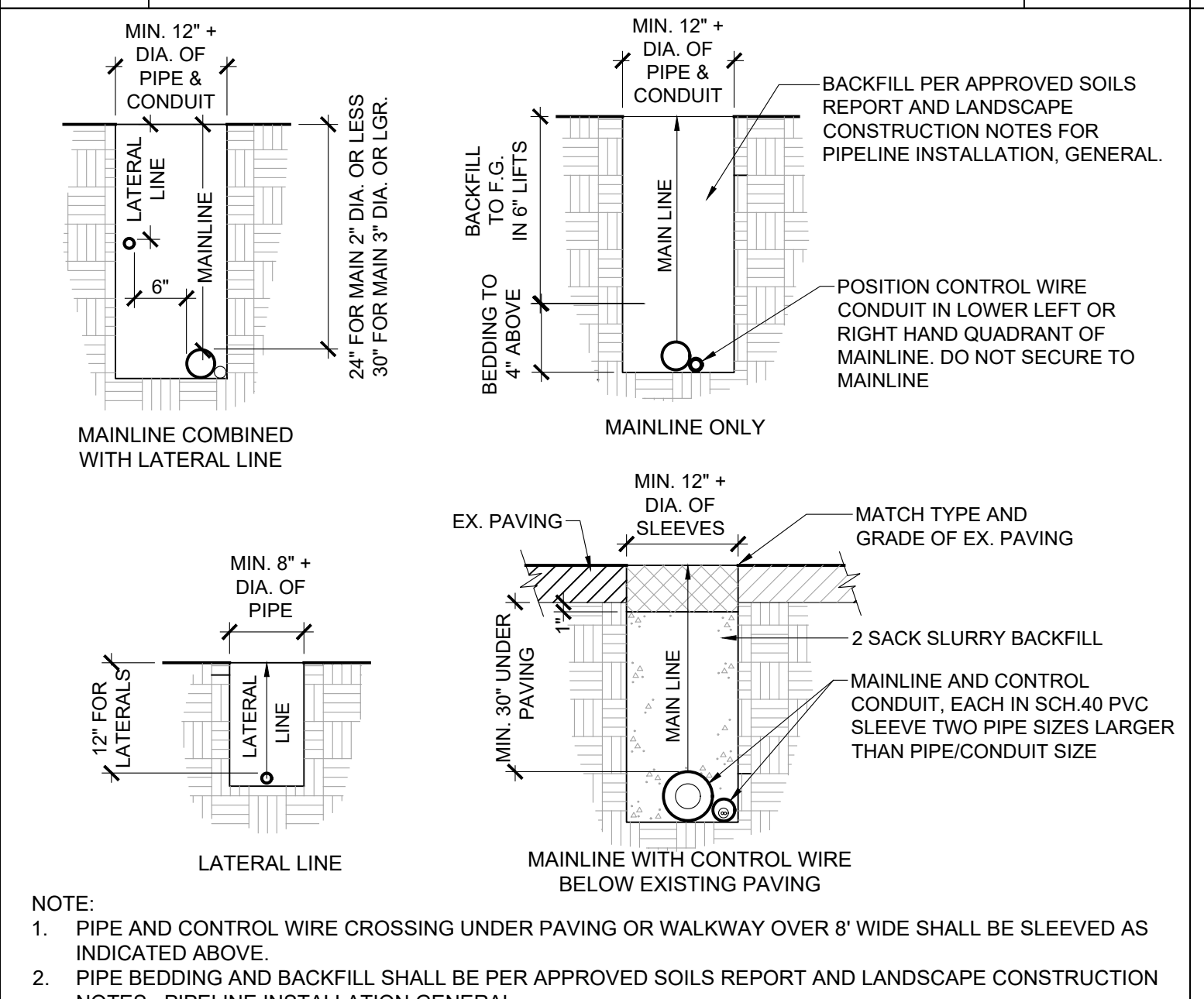
E1 QUICK COUPLING VALVE INSTALLATION DETAIL
N.T.S. BOE VERSION 05/16/17 RWF/gm RP DETAIL L1201



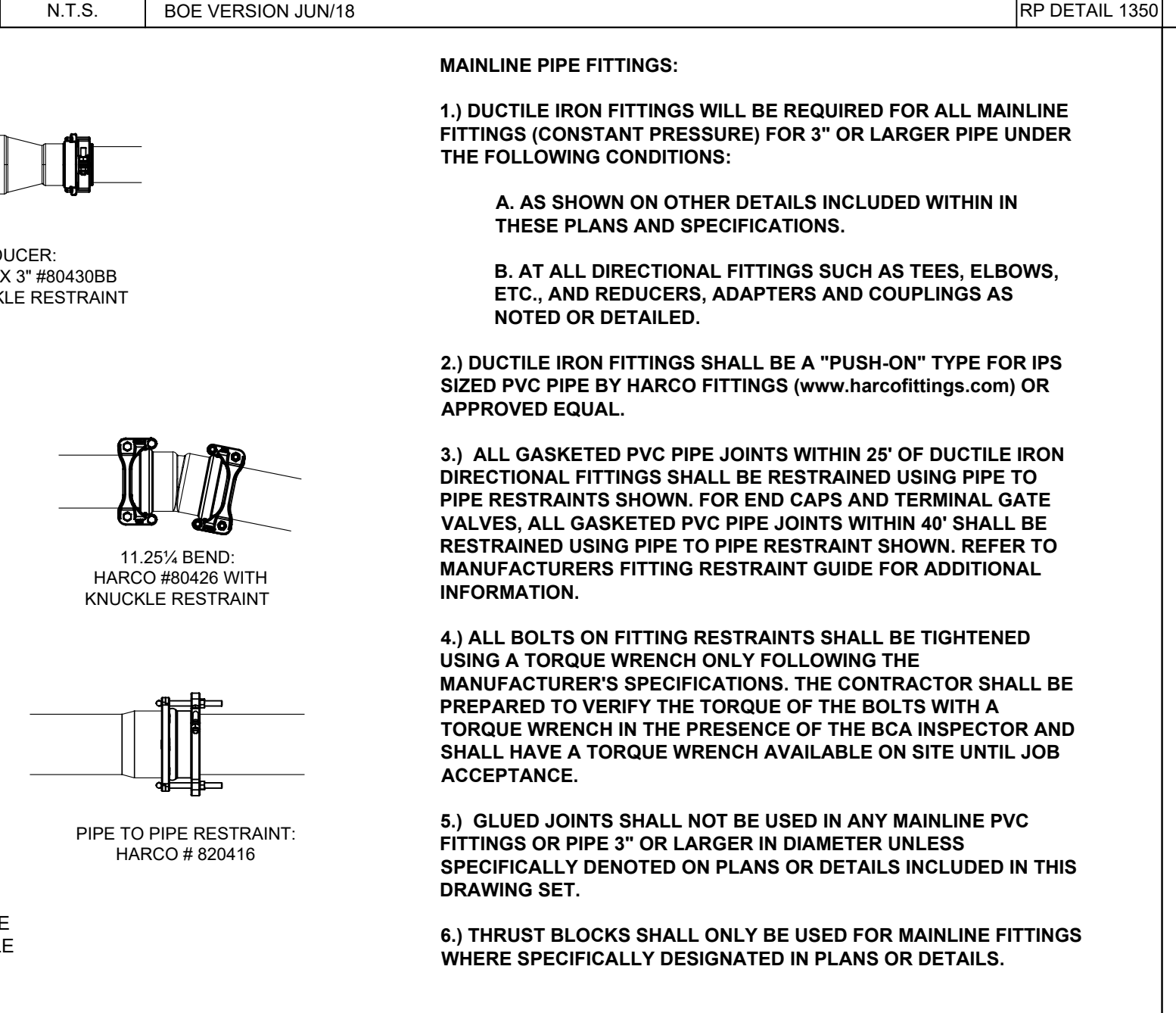
A1 RESTRAINED FITTINGS FOR 4" MAINLINE
N.T.S. BOE VERSION 02/14/18 - RF RP DETAIL L1304



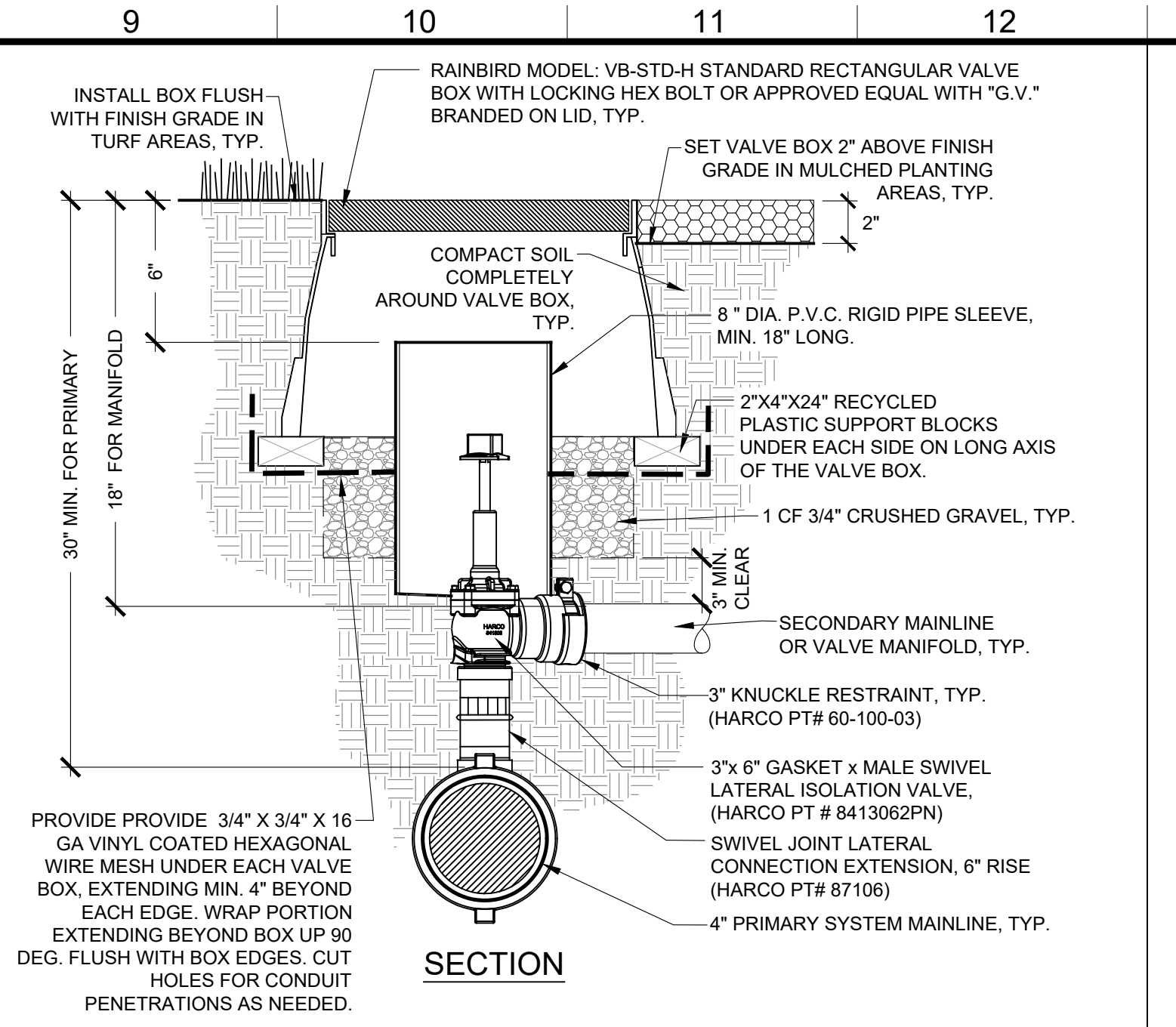
H5 VALVE BOX PLACEMENT
N.T.S. BOE VERSION 02/14/18 - RF RP DETAIL 1410



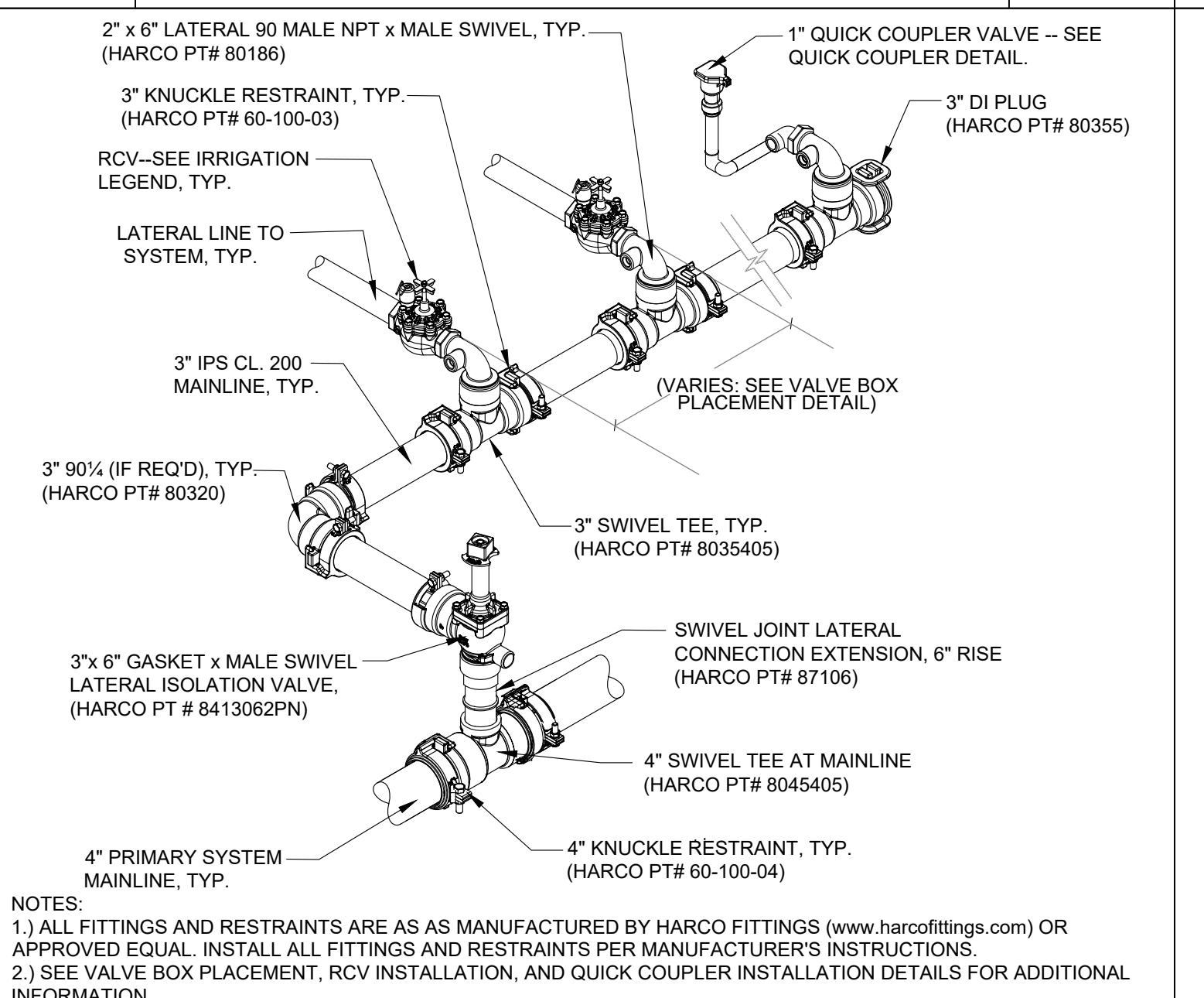
E5 IRRIGATION TRENCHING DETAIL
N.T.S. BOE VERSION JUN/18 RP DETAIL 1350



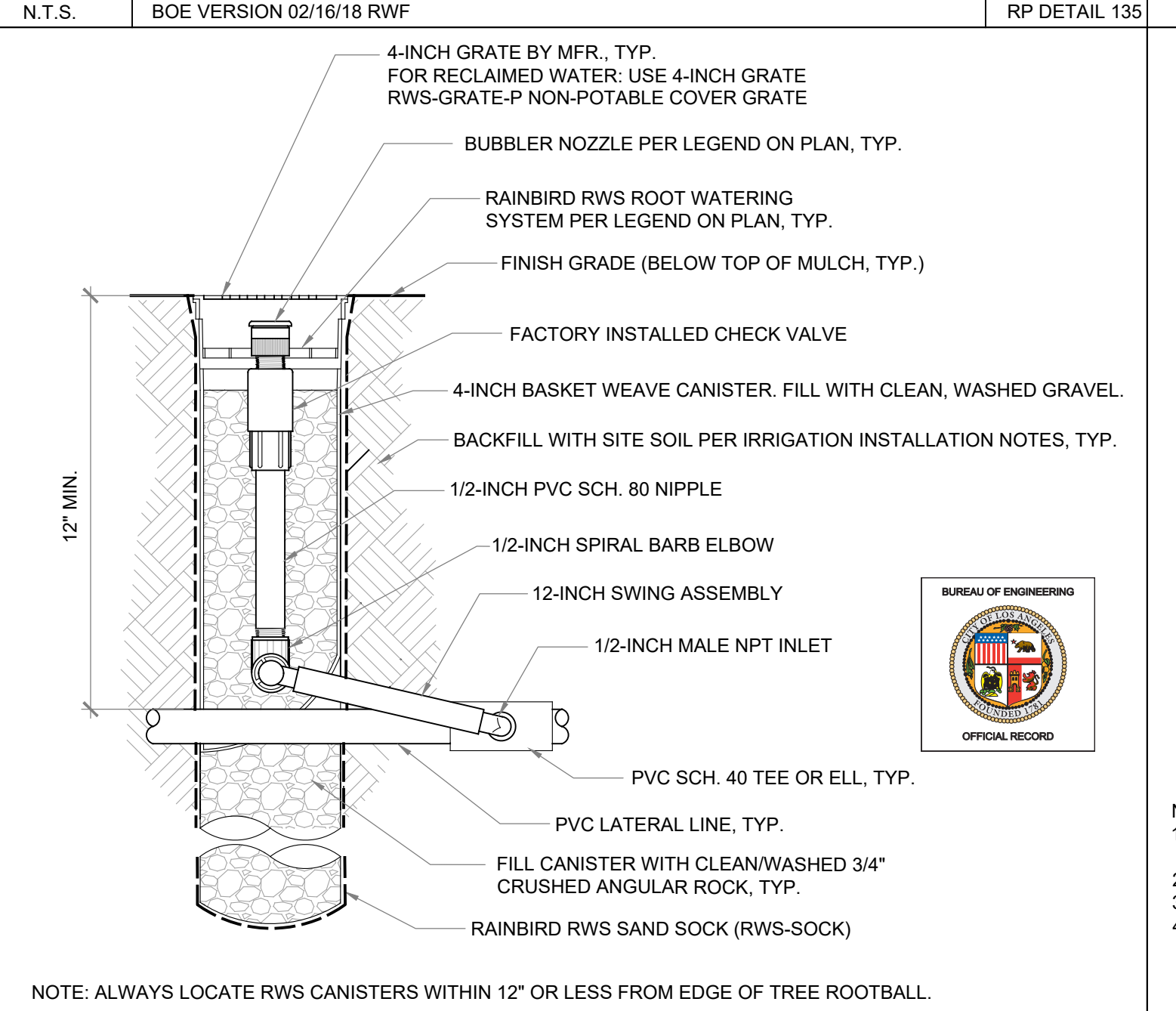
E9 VALVE MANIFOLD ASSEMBLY
N.T.S. BOE VERSION 02/16/18 RWF RP DETAIL 135



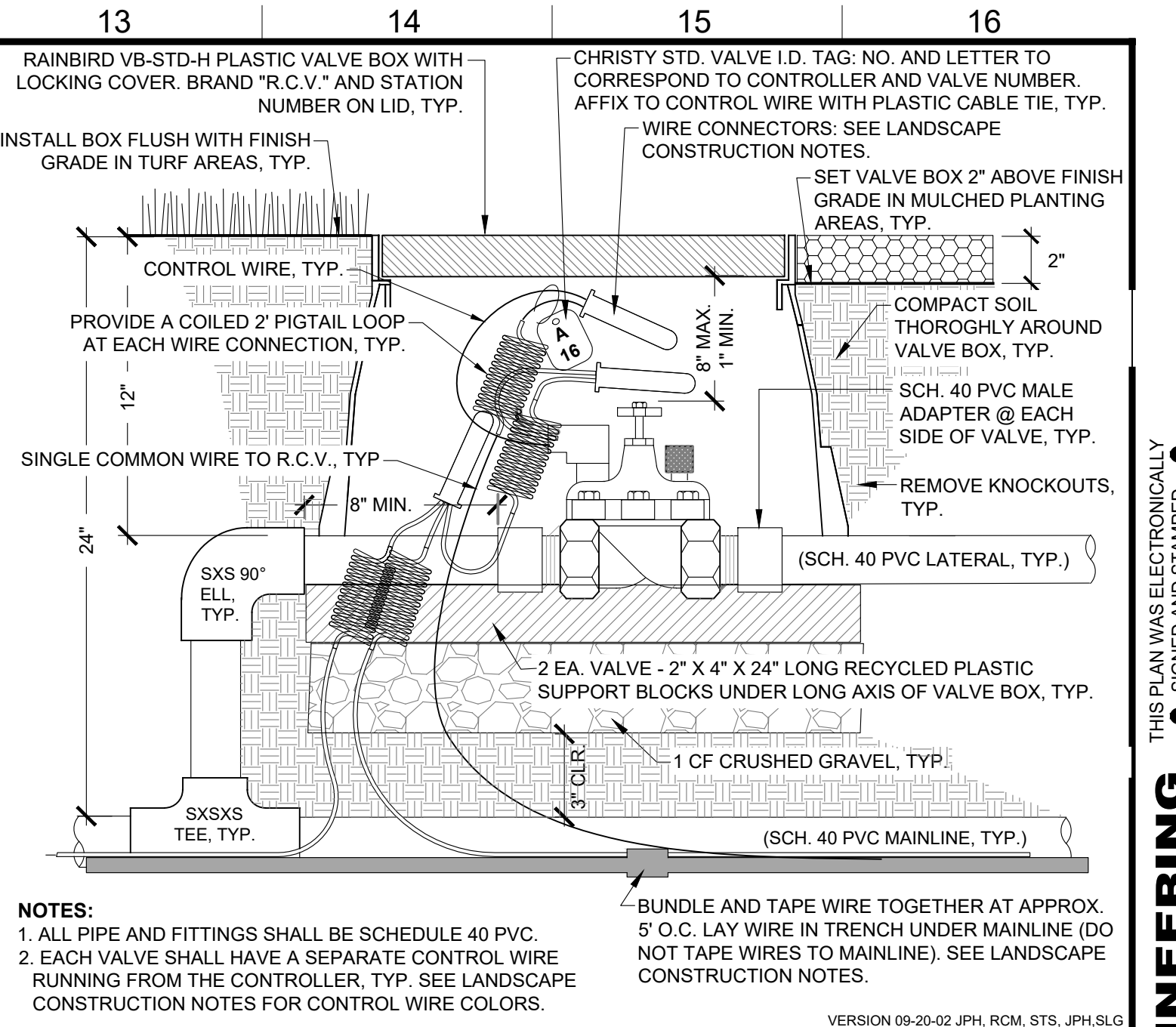
H9 MANIFOLD GATE VALVE, 3" and Larger Mainline
N.T.S. BOE VERSION 02/14/18 - RF RP DETAIL L1102



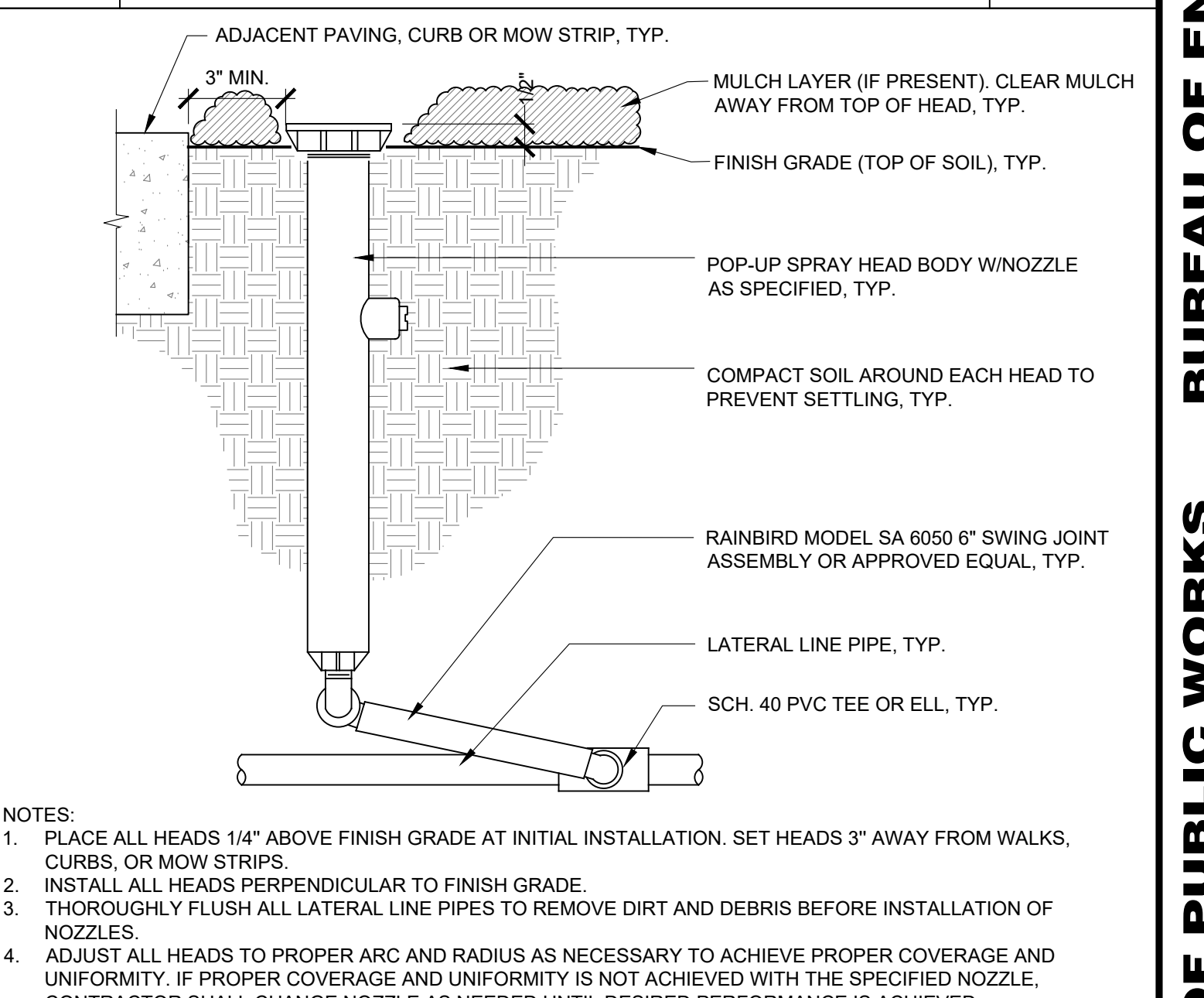
E13 POP-UP SPRAY HEAD INSTALLATION
N.T.S. REVISED: 6/09/20 RWF RP DETAIL 1622



A9 ROOT WATERING SYSTEM BUBBLER ASSEMBLY
N.T.S. BOE VERSION Sep/07 - RF RP DETAIL L1660



H13 RCV INSTALLATION DETAIL (Plastic Box)
N.T.S. BOE VERSION Dec/08 RP DETAIL L1401



A13 GEAR-DRIVEN ROTOR HEAD INSTALLATION
N.T.S. REVISED: 6/14/06 RWF/SLG RP DETAIL 1621B

ENGINEERING
CITY OF LOS ANGELES

DEPARTMENT OF PUBLIC WORKS
BUREAU OF ENGINEERING

CLIENT: DEPARTMENT OF RECREATION & PARKS
GENERAL MANAGER: _____
DATE: _____ BY: _____

SHEET TITLE: IRRIGATION DETAILS, SHEET 1
PROJECT: RIO DE LOS ANGELES STATE PARK FIELDS MAINTENANCE IMPROVEMENTS PROJECT
ADDRESS: 1900 WEST SAN FERNANDO ROAD, LOS ANGELES, CA, 90039

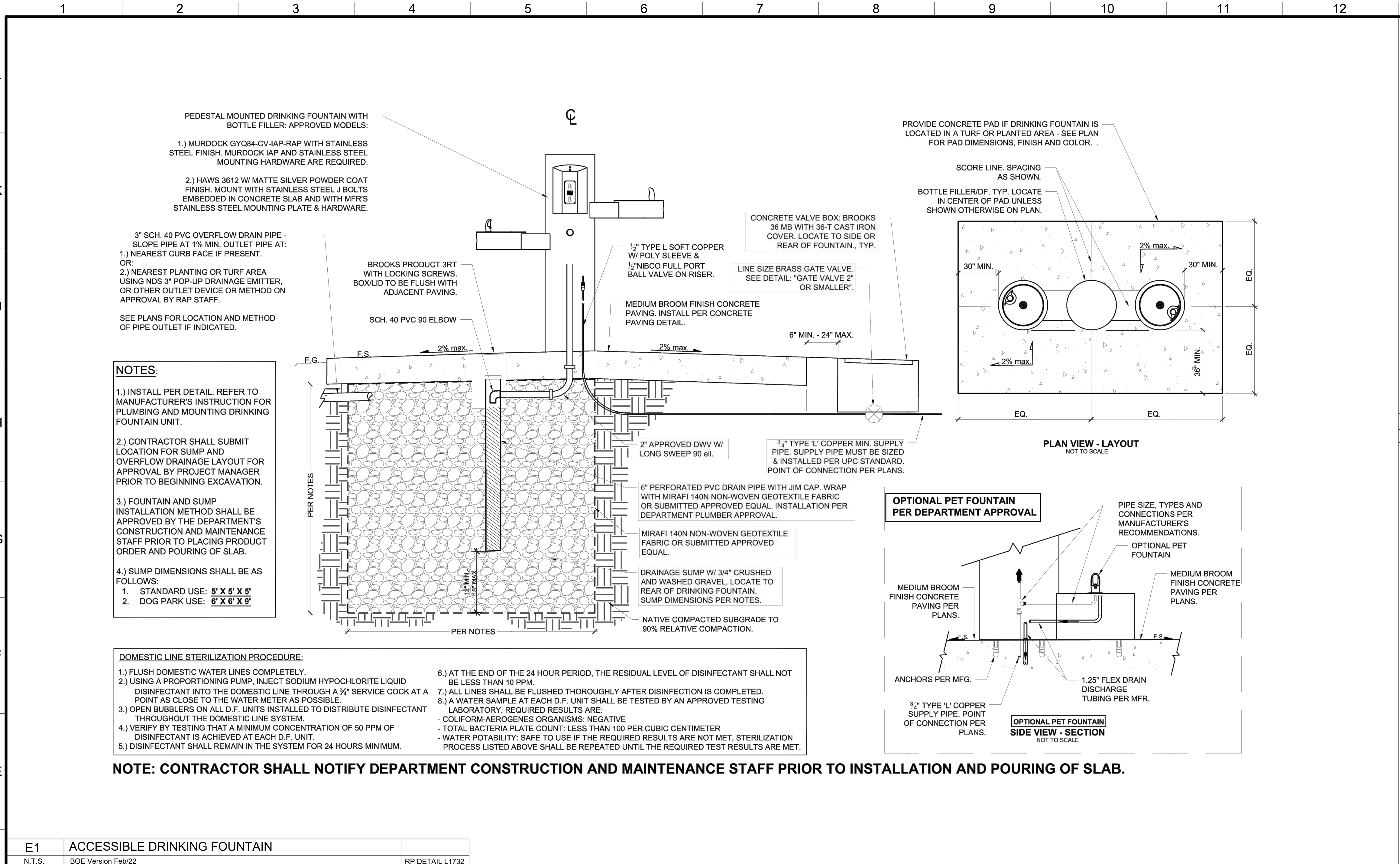
CIP NO. G1188
INDEX NO. RP-300125

CITY ENGINEER: _____ DATE: _____
DESIGN GROUP: _____
ENGINEER: _____
ARCHITECT: RICHARD W. FISHER, LANDSCAPE ARCHITECT
DRAWN BY: ERNESTO GONZALEZ, LANDSCAPE ARCH. ASSOCIATE II 7/13/2023
CHECKED BY: RICHARD W. FISHER, LANDSCAPE ARCHITECT
APPROVED BY: _____

WORK ORDER NO. E1908951
FILE NO. 999
DRAWING NO. L606
SHEET 72 of 100 SHEETS

REVISION DATES (DESIGN STAGE ONLY)

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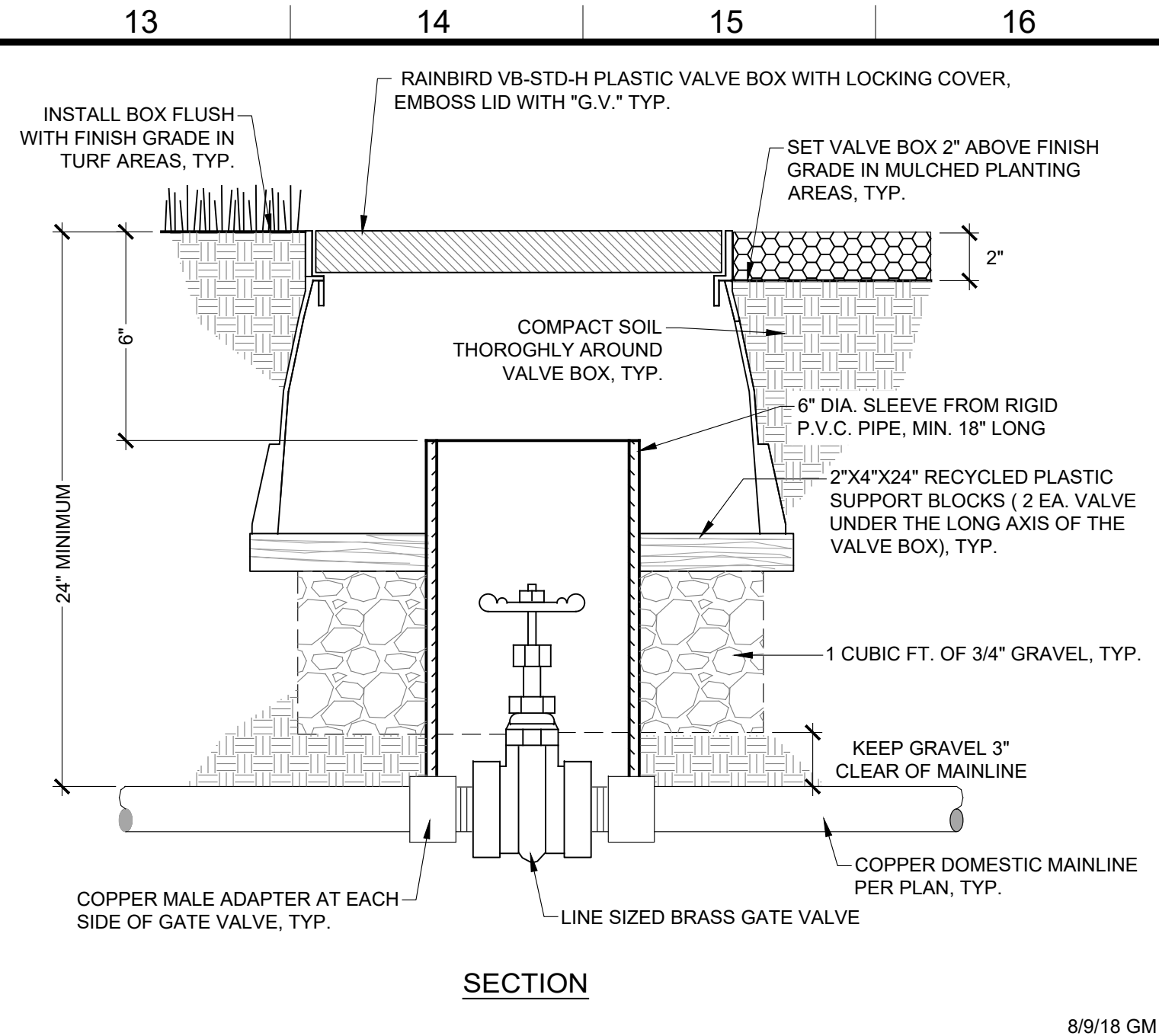


- NOTES:**
- 1.) INSTALL PER DETAIL. REFER TO MANUFACTURER'S INSTRUCTION FOR PLUMBING AND MOUNTING DRINKING FOUNTAIN UNIT.
 - 2.) CONTRACTOR SHALL SUBMIT LOCATION FOR SUMP AND OVERFLOW DRAINAGE LAYOUT FOR APPROVAL BY PROJECT MANAGER PRIOR TO BEGINNING EXCAVATION.
 - 3.) FOUNTAIN AND SUMP INSTALLATION METHOD SHALL BE APPROVED BY THE DEPARTMENT'S CONSTRUCTION AND MAINTENANCE STAFF PRIOR TO PLACING PRODUCT ORDER AND POURING OF SLAB.
 - 4.) SUMP DIMENSIONS SHALL BE AS FOLLOWS:
 1. STANDARD USE: 5' X 5' X 5'
 2. DOG PARK USE: 8' X 6' X 8'

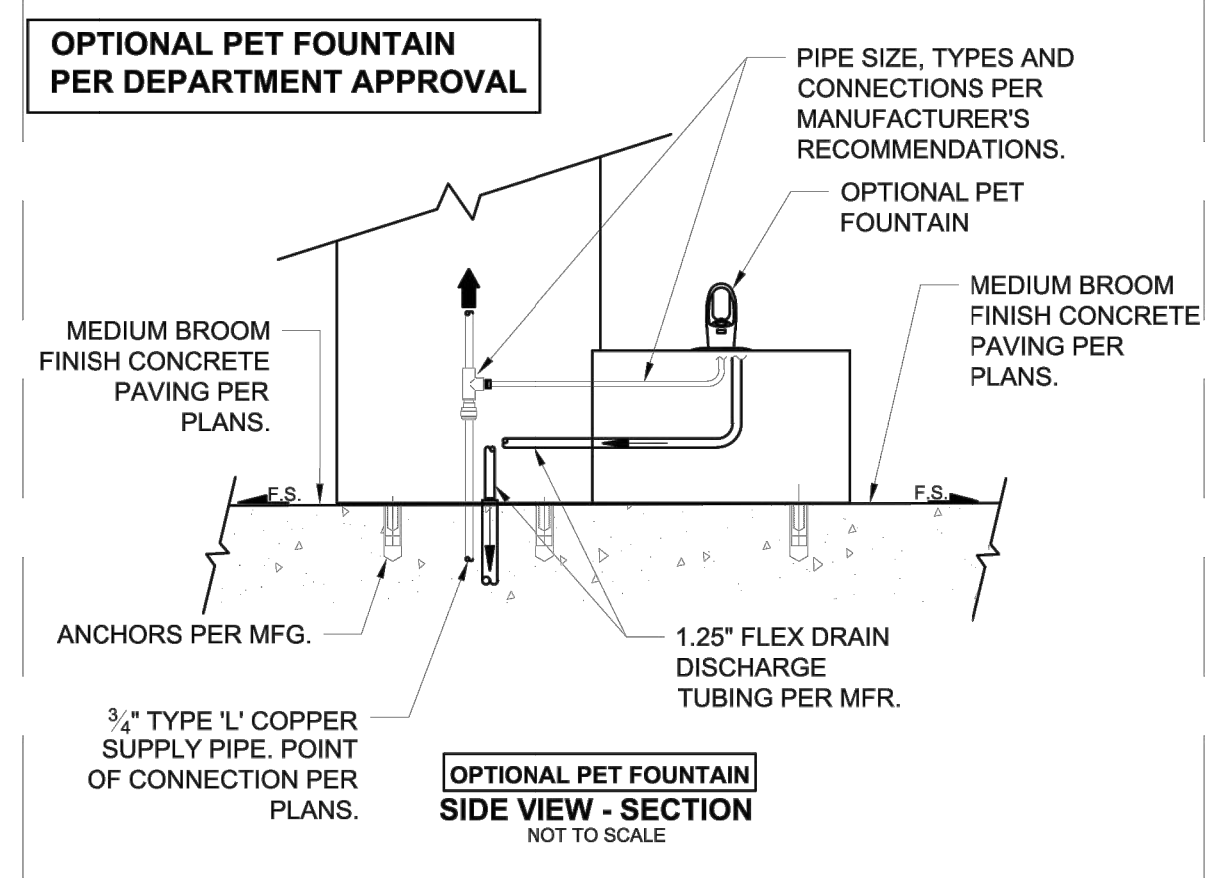
- DOMESTIC LINE STERILIZATION PROCEDURE:**
- 1.) FLUSH DOMESTIC WATER LINES COMPLETELY.
 - 2.) USING A PROPORTIONING PUMP, INJECT SODIUM HYPOCHLORITE LIQUID DISINFECTANT INTO THE DOMESTIC LINE THROUGH A 1/2" SERVICE COCK AT A POINT AS CLOSE TO THE WATER METER AS POSSIBLE.
 - 3.) OPEN BUBBLERS ON ALL D.F. UNITS INSTALLED TO DISTRIBUTE DISINFECTANT THROUGHOUT THE DOMESTIC LINE SYSTEM.
 - 4.) VERIFY BY TESTING THAT A MINIMUM CONCENTRATION OF 50 PPM OF DISINFECTANT IS ACHIEVED AT EACH D.F. UNIT.
 - 5.) DISINFECTANT SHALL REMAIN IN THE SYSTEM FOR 24 HOURS MINIMUM.
 - 6.) AT THE END OF THE 24 HOUR PERIOD, THE RESIDUAL LEVEL OF DISINFECTANT SHALL NOT BE LESS THAN 10 PPM.
 - 7.) ALL LINES SHALL BE FLUSHED THOROUGHLY AFTER DISINFECTION IS COMPLETED.
 - 8.) A WATER SAMPLE AT EACH D.F. UNIT SHALL BE TESTED BY AN APPROVED TESTING LABORATORY. REQUIRED RESULTS ARE:
 - COLIFORM-AEROGENES ORGANISMS: NEGATIVE
 - TOTAL BACTERIA PLATE COUNT: LESS THAN 100 PER CUBIC CENTIMETER
 - WATER POTABILITY: SAFE TO USE IF THE REQUIRED RESULTS ARE NOT MET, STERILIZATION PROCESS LISTED ABOVE SHALL BE REPEATED UNTIL THE REQUIRED TEST RESULTS ARE MET.

NOTE: CONTRACTOR SHALL NOTIFY DEPARTMENT CONSTRUCTION AND MAINTENANCE STAFF PRIOR TO INSTALLATION AND POURING OF SLAB.

E1	ACCESSIBLE DRINKING FOUNTAIN	
N.T.S.	BOE Version Feb/22	RP DETAIL L1732



H13 GATE VALVE INSTALLATION, 3/4" TO 2" DOMESTIC
 N.T.S. RP DETAIL 1100



OPTIONAL PET FOUNTAIN SIDE VIEW - SECTION
 NOT TO SCALE

ENGINEERING
CITY OF LOS ANGELES

BUREAU OF ENGINEERING

DEPARTMENT OF PUBLIC WORKS

CLIENT: DEPARTMENT OF RECREATION & PARKS

GENERAL MANAGER:

SHEET TITLE: IRRIGATION DETAILS, SHEET 2

PROJECT: RIO DE LOS ANGELES STATE PARK FIELDS MAINTENANCE IMPROVEMENTS PROJECT

ADDRESS: 1900 WEST SAN FERNANDO ROAD, LOS ANGELES, CA, 90039

INDEX NO. RP-300125

CIP NO. G1188

DATE:

BY:

NO.:

REVISION DESCRIPTION:

ENGINEER: TED ALLEN, P.E., CITY ENGINEER

DESIGN GROUP:

ARCHITECT: RICHARD W. FISHER, LANDSCAPE ARCHITECT I

DESIGNED BY: RICHARD W. FISHER, LANDSCAPE ARCHITECT I

DRAWN BY: ERNESTO GONZALEZ, LANDSCAPE ARCH. ASSOCIATE II

CHECKED BY: RICHARD W. FISHER, LANDSCAPE ARCHITECT I

APPROVED BY:

WORK ORDER NO. E1908951

FILE NO. 999

DRAWING NO. L607

SHEET 73 OF 100 SHEETS

DATE: 7/13/2023

OFFICIAL RECORD

PLANTING NOTES

- EXISTING TREE PROTECTION: SEE TREE PROTECTION SECTION IN SPECIFICATIONS.
- ALL PLANTING AREAS SHALL RECEIVE SOIL PREPARATION PER THE LANDSCAPE CONSTRUCTION NOTES. AREAS INSIDE TREE PROTECTION ZONES SHALL RECEIVE ALTERNATE SOIL PREPARATION METHODS AND MATERIALS PER THE SPECIFICATIONS WHERE DESIGNATED.
- FOR SOILS LESS THAN 6% ORGANIC MATTER IN THE TOP 6 INCHES OF SOIL, COMPOST AT A RATE OF A MINIMUM OF FOUR CUBIC YARDS PER 1,000 SQUARE FEET OF PERMEABLE AREA SHALL BE INCORPORATED TO A DEPTH OF SIX INCHES INTO THE SOIL.
- SOIL PREPARATION, HYDROSEEDING, OR PLANTING FOR EACH AREA SHALL NOT BE PERFORMED UNTIL THE IRRIGATION SYSTEM IS COMPLETED, INSPECTED AND APPROVED PER THE LANDSCAPE PLANTING SPECIFICATIONS.
- HYDROSEEDING, SOD OR CONTAINER PLANTING SHALL NOT BE INSTALLED UNTIL AFTER SOIL PREPARATION, FINE GRADING AND "GROW AND KILL" WEED ABATEMENT PER THE LANDSCAPE PLANTING SPECIFICATIONS ARE COMPLETED AND APPROVED. SPECIMEN TREES IN PAVED AREAS MAY BE EXEMPTED AT THE DISCRETION OF CITY ENGINEER.
- TREE PLANTING SHALL BE PERFORMED PER DETAIL H1/L701.
- SHRUB PLANTING SHALL BE PERFORMED PER DETAIL H5/L701.
- PLANTING LEGEND AS SHOWN ON EACH PLANTING PLAN SHEET IS **FOR THE ENTIRE PROJECT**, AND IS INCLUDED FOR THE CONVENIENCE OF THE CONTRACTOR. IN CASE OF DISCREPANCIES, THE QUANTITY OF SYMBOLS FOR EACH PLANT SHOWN ON THE PLANTING PLAN SHALL TAKE PRECEDENCE. CONTRACTOR IS RESPONSIBLE TO VERIFY ALL QUANTITIES AS SHOWN ON THE PLANTING PLAN.
- AVAILABILITY & SUBSTITUTIONS: NO SUBSTITUTIONS OF PLANT SPECIES, TYPE, CULTIVAR, SIZE ETC. WILL BE ACCEPTED WITHOUT PRIOR APPROVAL OF PROJECT MANAGER. CONTRACTOR IS EXPECTED TO UTILIZE ALL APPROPRIATE NURSERY RESOURCES IN THE SOUTHERN CALIFORNIA REGION BEFORE DETERMINING IF A SPECIFIED MATERIAL IS UNAVAILABLE. SEE LANDSCAPE PLANTING SPECIFICATIONS.
- SEE THE LANDSCAPE PLANTING SPECIFICATIONS FOR REQUIRED INSPECTIONS OF PLANT MATERIALS PRIOR TO INSTALLATION.
- AFTER PLANT MATERIALS ARE INSPECTED AND APPROVED, AND PLANTING AREA IS READY FOR PLANTING, CONTRACTOR SHALL PLACE ALL CONTAINER PLANTS IN A GIVEN AREA - STILL INSIDE THEIR RESPECTIVE NURSERY CONTAINERS - IN THE PLANTING AREAS PER THE LAYOUT SHOWN ON THE PLANTING PLAN FOR INSPECTION AND APPROVAL BY THE LANDSCAPE ARCHITECT. NO PLANTING SHALL BE INSTALLED (OR PLANTING HOLES EXCAVATED) UNTIL THE PLANT TYPE, QUALITY AND LOCATION HAS BEEN APPROVED BY THE LANDSCAPE ARCHITECT. ANY PLANTS INSTALLED PRIOR TO APPROVAL ARE SUBJECT TO REMOVAL AND RE-PLANTING OR REPLACEMENT AT THE CONTRACTOR'S EXPENSE. PROJECT MANAGER SHALL BE NOTIFIED MINIMUM 48 HOURS IN ADVANCE OF REQUESTED INSPECTION.
- A MINIMUM 3-INCH LAYER OF MULCH SHALL BE APPLIED ON ALL EXPOSED SOIL SURFACES OF PLANTING AREAS EXCEPT TURF AREAS, CREEPING OR ROOTING GROUNDCOVERS, OR DIRECT SEEDING APPLICATIONS WHERE MUCH IS CONTRAINDICATED. APPLY PER THE PLANTING DETAILS AND THE LANDSCAPE PLANTING SPECIFICATIONS MATERIALS LIST.
- PRIOR TO PLACING MULCH, PRE-EMERGENT HERBICIDE SHALL BE APPLIED TO THE SOIL PER LANDSCAPE CONSTRUCTION NOTES.
- MULCH SHALL BE SPREAD EVENLY THROUGHOUT PLANTING BEDS. DO NOT BURY PLANT CROWNS.
- SEE LANDSCAPE PLANTING SPECIFICATIONS FOR PLANTING MAINTENANCE AND ESTABLISHMENT PERIOD REQUIREMENTS.

REQUIRED STATEMENTS & CERTIFICATION

- AN IRRIGATION AUDIT REPORT SHALL BE COMPLETED AT THE TIME OF FINAL INSPECTION
- A DIAGRAM OF THE IRRIGATION PLAN SHOWING HYDROZONES SHALL BE KEPT WITH THE IRRIGATION CONTROLLER FOR SUBSEQUENT MANAGEMENT PURPOSES.
- A CERTIFICATE OF COMPLETION SHALL BE FILLED OUT AND CERTIFIED BY EITHER THE SIGNER OF THE LANDSCAPE PLANS, THE SIGNER OF THE IRRIGATION PLANS, OR THE LICENSED LANDSCAPE CONTRACTOR FOR THE PROJECT.

"I AGREE TO COMPLY WITH THE REQUIREMENTS OF THE WATER EFFICIENT LANDSCAPE ORDINANCE AND SUBMIT A COMPLETE LANDSCAPE DOCUMENTATION PACKAGE"

"I HAVE COMPLIED WITH THE CRITERIA OF THE ORDINANCE AND APPLIED THEM FOR THE EFFICIENT USE OF WATER IN THE LANDSCAPE DESIGN PLANS"

TREE LEGEND

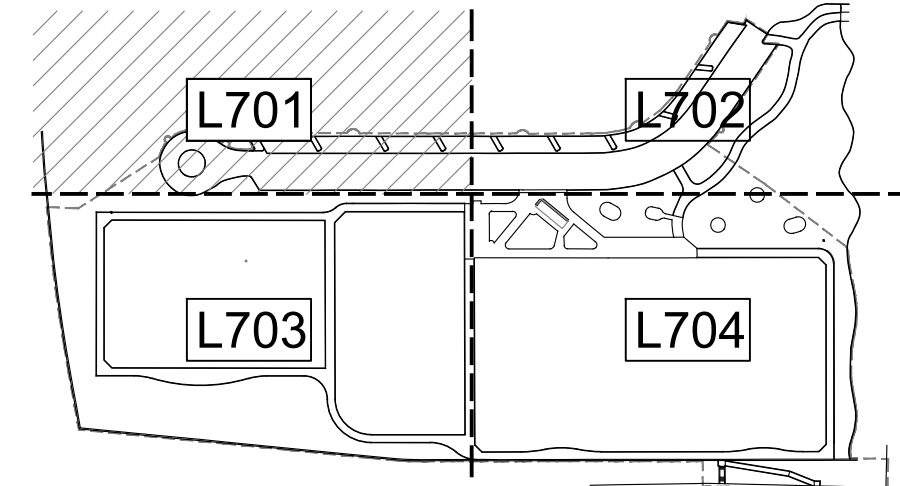
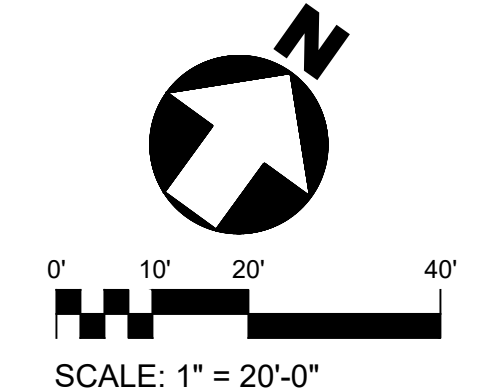
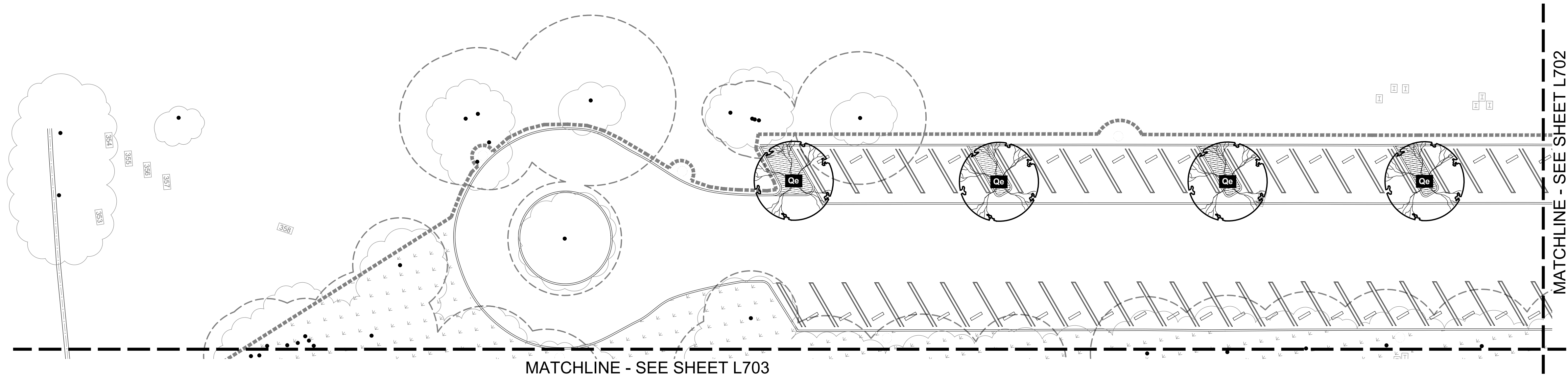
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SHRUB/GROUND COVER LEGEND

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BUREAU OF ENGINEERING

CLIENT: DEPARTMENT OF RECREATION & PARKS
GENERAL MANAGER: _____

SHEET TITLE: PLANTING PLAN, SHEET 1 OF 4
PROJECT: RIO DE LOS ANGELES STATE PARK FIELDS MAINTENANCE IMPROVEMENTS PROJECT
ADDRESS: 1900 WEST SAN FERNANDO ROAD, LOS ANGELES, CA, 90039

NO.	REVISION DESCRIPTION	DATE	BY

INDEX NO. **RP-300125** CIP NO. **G1188**

CITY OF LOS ANGELES DEPARTMENT OF PUBLIC WORKS

TED ALLEN, P.E., CITY ENGINEER
DESIGN GROUP: _____

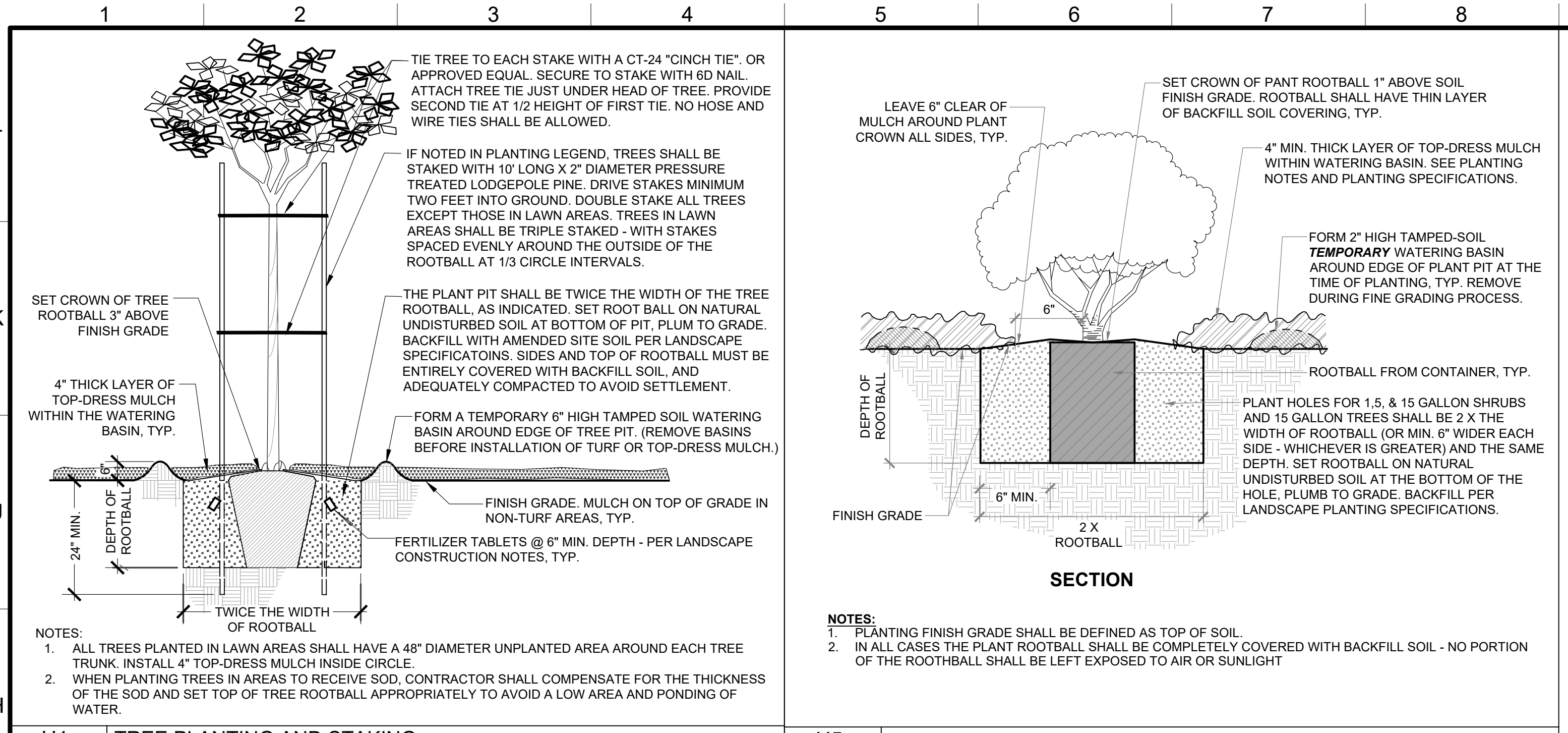
ENGINEER: _____ DATE: _____
ARCHITECT: RICHARD W. FISHER, LANDSCAPE ARCHITECT
DESIGNED BY: RICHARD W. FISHER, LANDSCAPE ARCHITECT
DRAWN BY: ERNESTO GONZALEZ, LANDSCAPE ARCH. ASSOCIATE II 7/13/2023
CHECKED BY: RICHARD W. FISHER, LANDSCAPE ARCHITECT
APPROVED BY: _____

WORK ORDER NO. **E1908951**
FILE NO. **999**
DRAWING NO. **L701**
SHEET **74** OF 100 SHEETS

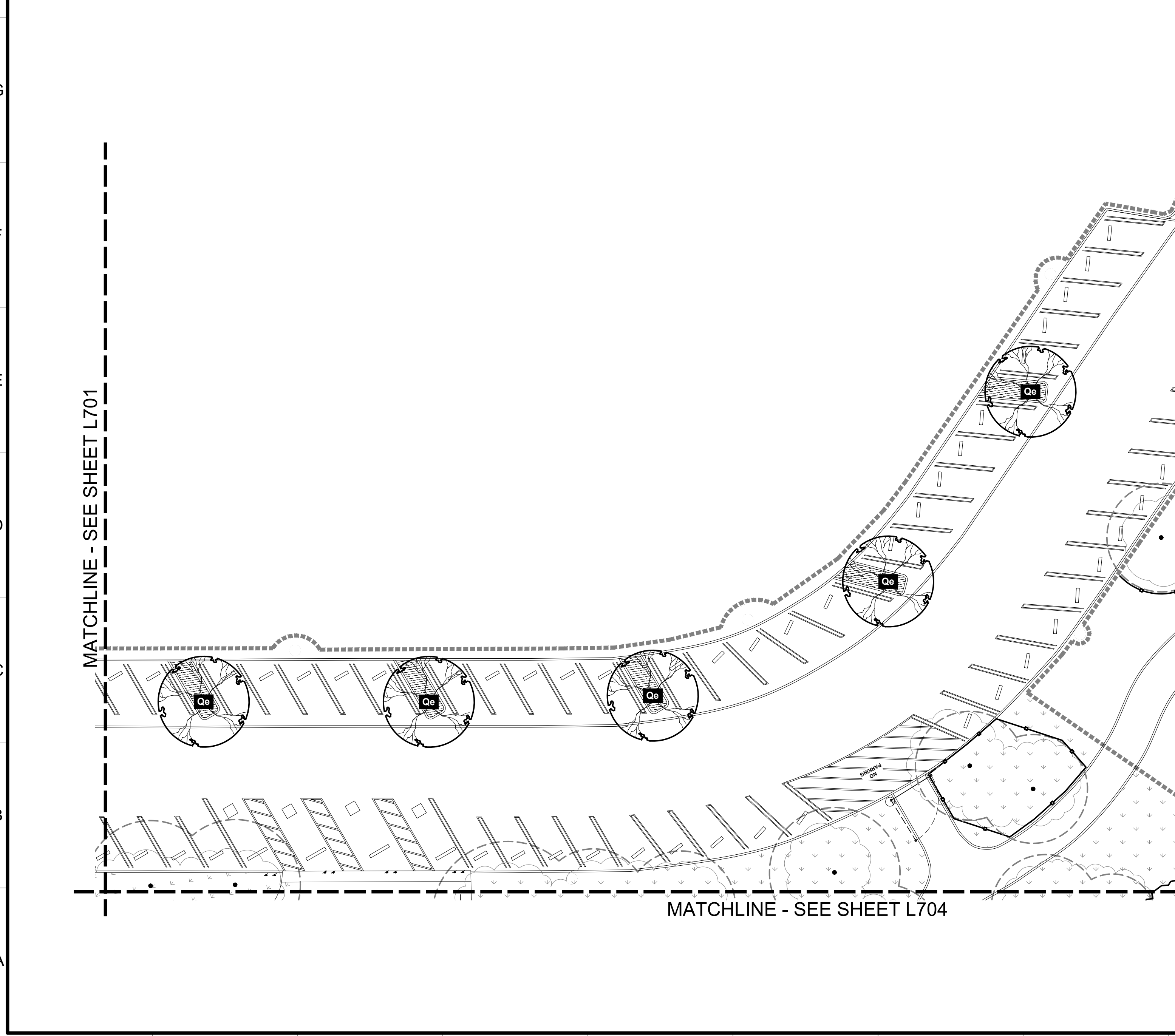
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REVISION DATES (DESIGN STAGE ONLY)

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H1	TREE PLANTING AND STAKING	H5	SHRUB PLANTING
N.T.S.	BOE VERSION DEC/19	N.T.S.	BOE VERSION OCT/19
	RP DETAIL L2000		RP DETAIL L2030



TREE LEGEND

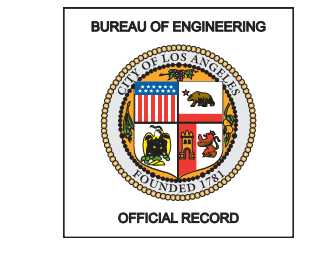
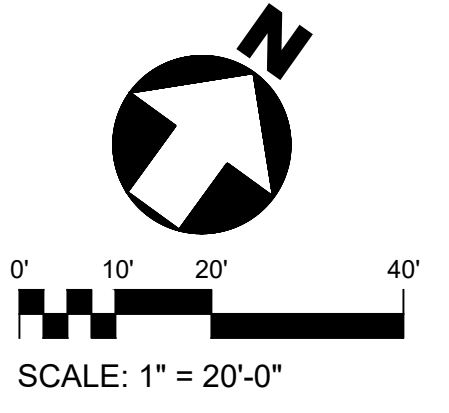
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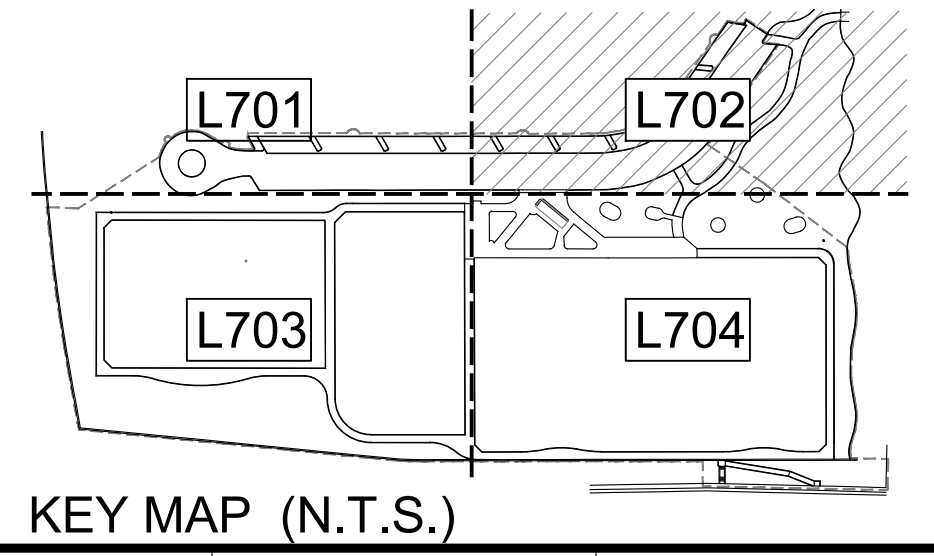


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ENGINEERING
CITY OF LOS ANGELES

BUREAU OF ENGINEERING

CLIENT: DEPARTMENT OF RECREATION & PARKS
GENERAL MANAGER: [Name]
SHEET TITLE: PLANTING PLAN, SHEET 2 OF 4
PROJECT: RIO DE LOS ANGELES STATE PARK FIELDS MAINTENANCE IMPROVEMENTS PROJECT
ADDRESS: 1900 WEST SAN FERNANDO ROAD, LOS ANGELES, CA, 90039

INDEX NO. **RP-300125**
CIP NO. **G1188**

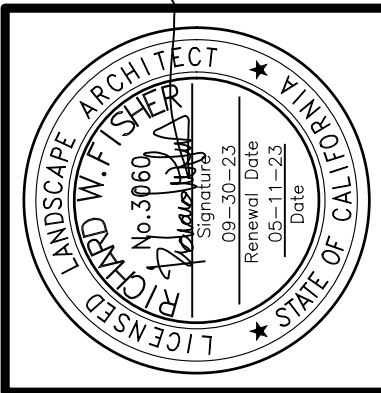
NO. [] DATE [] BY []

REVISION DESCRIPTION []

CITY OF LOS ANGELES DEPARTMENT OF PUBLIC WORKS

ENGINEER: TED ALLEN, P.E., CITY ENGINEER
DESIGN GROUP: []
ARCHITECT: RICHARD W. FISHER, LANDSCAPE ARCHITECT I
DESIGNED BY: RICHARD W. FISHER, LANDSCAPE ARCHITECT I
DRAWN BY: ERNESTO GONZALEZ, LANDSCAPE ARCH. ASSOCIATE II | 7/13/2023
CHECKED BY: RICHARD W. FISHER, LANDSCAPE ARCHITECT I
APPROVED BY: []

WORK ORDER NO. **E1908951**
FILE NO. **999**
DRAWING NO. **L702**
SHEET **75** OF 100 SHEETS



BUREAU OF ENGINEERING
 CLIENT: DEPARTMENT OF RECREATION & PARKS
 GENERAL MANAGER:
 SHEET TITLE: PLANTING PLAN, SHEET 3 OF 4
 PROJECT: RIO DE LOS ANGELES STATE PARK FIELDS MAINTENANCE IMPROVEMENTS PROJECT
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 ARCHITECT: RICHARD W. FISHER, LANDSCAPE ARCHITECT
 DESIGNED BY: ERNESTO GONZALEZ, LANDSCAPE ARCH. ASSOCIATE II | 7/13/2023
 DRAWN BY: RICHARD W. FISHER, LANDSCAPE ARCHITECT
 CHECKED BY: RICHARD W. FISHER, LANDSCAPE ARCHITECT
 APPROVED BY:

WORK ORDER NO. **E1908951**
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L703
 SHEET **76** OF 100 SHEETS

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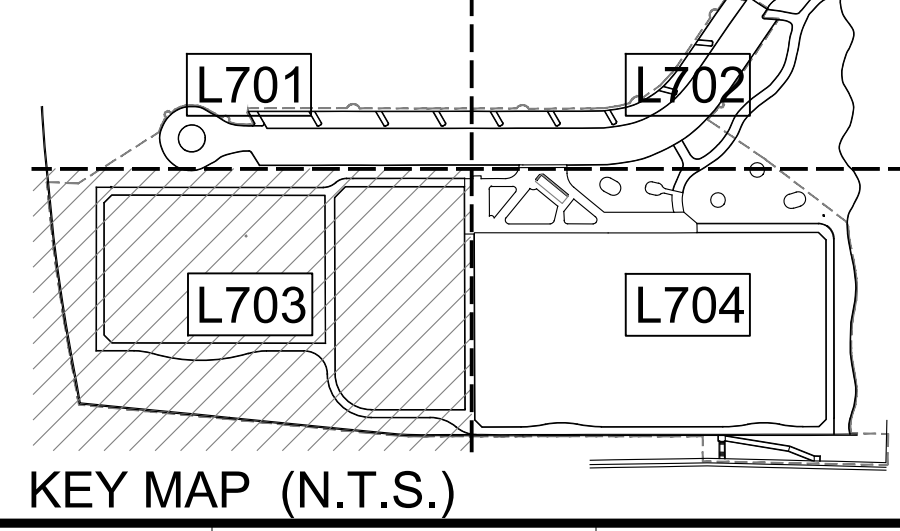
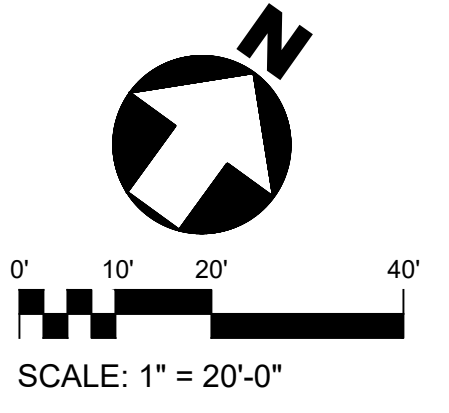
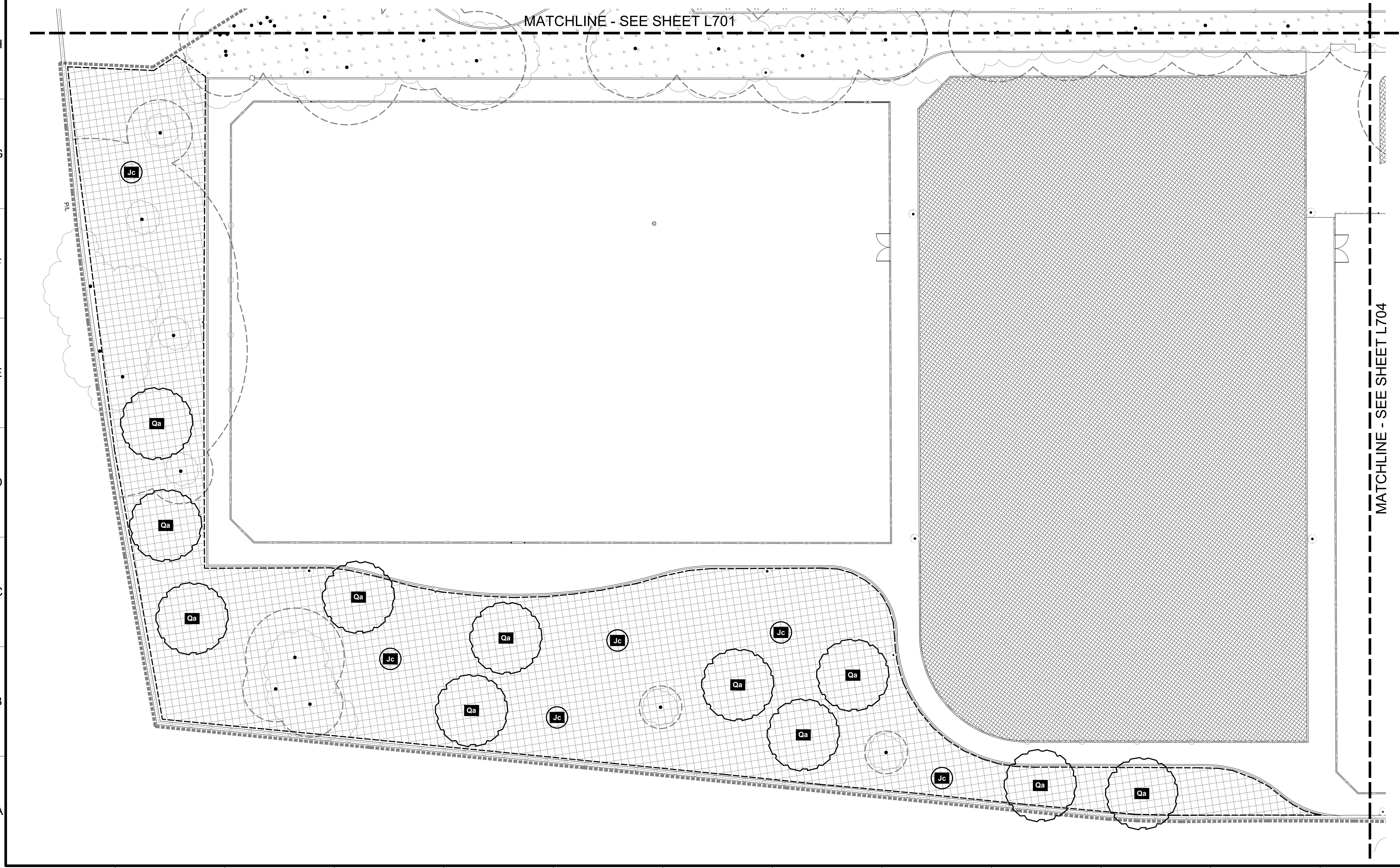
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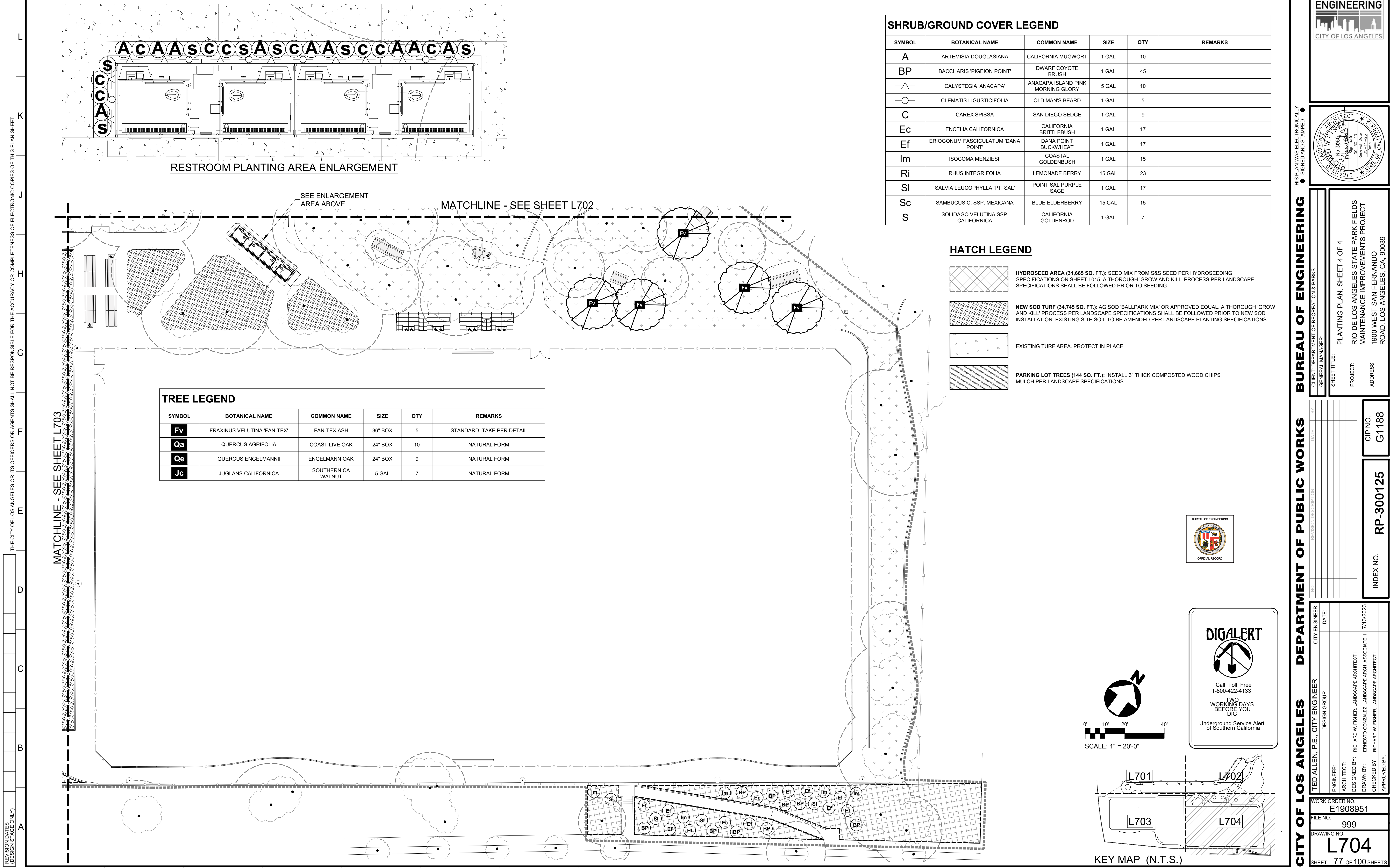
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REVISION DATES (DESIGN STAGE ONLY)





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ACAASCASCAASCACAAS

RESTROOM PLANTING AREA ENLARGEMENT

SEE ENLARGEMENT AREA ABOVE

MATCHLINE - SEE SHEET L702

MATCHLINE - SEE SHEET L703

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OFFICIAL RECORD

SCALE: 1" = 20'-0"

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KEY MAP (N.T.S.)

ENGINEERING
CITY OF LOS ANGELES

THIS PLAN WAS ELECTRONICALLY SIGNED AND STAMPED

BUREAU OF ENGINEERING

CLIENT: DEPARTMENT OF RECREATION & PARKS
GENERAL MANAGER: _____

SHEET TITLE: PLANTING PLAN, SHEET 4 OF 4

PROJECT: RIO DE LOS ANGELES STATE PARK FIELDS MAINTENANCE IMPROVEMENTS PROJECT

ADDRESS: 1900 WEST SAN FERNANDO ROAD, LOS ANGELES, CA, 90039

NO.	REVISION DESCRIPTION	DATE	BY

INDEX NO. **RP-300125** CIP NO. **G1188**

ENGINEER	CITY ENGINEER	DATE
TED ALLEN, P.E., CITY ENGINEER	DESIGN GROUP	

ARCHITECT	DESIGNED BY	DRAWN BY	CHECKED BY	APPROVED BY
RICHARD W. FISHER, LANDSCAPE ARCHITECT	ERNESTO GONZALEZ, LANDSCAPE ARCH. ASSOCIATE II	RICHARD W. FISHER, LANDSCAPE ARCHITECT	RICHARD W. FISHER, LANDSCAPE ARCHITECT	

WORK ORDER NO. **E1908951**

FILE NO. **999**

DRAWING NO. **L704**

SHEET **77** OF 100 SHEETS

ELECTRICAL SPECIFICATIONS

DIVISION 1
GENERAL PROVISIONS FOR DEPARTMENT OF RECREATIONS AND PARKS AND THE STANDARD SPECIFICATIONS FOR PUBLIC WORKS CONSTRUCTIONS (SPSPWC), THE LOS ANGELES CITY ELECTRICAL CODE (LATEST EDITION) ARE MADE A PART OF THESE PLANS AND SPECIFICATIONS.

WHERE CONFLICTS OCCURS BETWEEN DIVISION 1 DEPARTMENT OF RECREATION AND PARKS AND THE SPSPWC, THE DIVISION 1 DEPARTMENT OF RECREATION AND PARKS DEPARTMENT SHALL TAKE PRECEDENCE. CATALOG SPECIFICATIONS WHEN DESCRIBED BY MODEL NUMBER ARE HEREBY MADE A PART OF THESE SPECIFICATIONS.

1. GENERAL SCOPE OF WORK
WORK IN THIS CONTRACT: ALL LABOR, MATERIALS AND EQUIPMENT NECESSARY FOR THE LIGHTING AND ELECTRICAL DISTRIBUTION SYSTEM, COMPLETE AND READY FOR USE, IN ACCORDANCE WITH THESE CONTRACT DRAWINGS AND THESE SPECIFICATIONS.

2. CLEANING, INSTALLATION AND REMOVAL OF RUBBISH
BESIDES THE GENERAL CLEANING, THE CONTRACTOR SHALL BE RESPONSIBLE FOR SEEING THAT THE FOLLOWING SPECIAL CLEANING FOR ALL TRADES SHALL BE DONE AT THE COMPLETION OF THE WORK AND DURING...

3. CONSTRUCTION WATER, LIGHT AND POWER
A. THE DEPARTMENT WILL FURNISH AT NO COST TO CONTRACTOR WATER AND ELECTRICITY AS IT EXISTS ON THE SITE. CONTRACTOR SHALL FURNISH AND MAINTAIN ALL TEMPORARY LINES, FIXTURES AND EQUIPMENT FOR WATER AND ELECTRICITY AND REMOVE SAME AT COMPLETION OF WORK AT HIS/HER OWN EXPENSE.

4. MAIN SERVICE
A. REQUIRED:
1. UNDERGROUND SERVICE CONDUIT FOR LIGHT AND POWER FROM MAIN SWITCHBOARD TO PROPERTY LINE AS DIRECTED BY THE DEPARTMENT OF WATER AND POWER.

5. PANELBOARDS
A. PANELBOARDS SHALL BE CIRCUIT BREAKER TYPE WITH BOLT-ON TYPE, TRIP FREE CIRCUIT BREAKERS. PANELBOARDS SHALL BE FURNISHED WITH COPPER BUSSING AND MAIN LUGS OR MAIN BREAKER AND ALL BRANCH CIRCUIT BREAKER AS INDICATED ON THE SCHEDULES.

6. RAINPROOF ENCLOSURES FOR SWITCHBOARD AND/OR PANELBOARDS (SEE DETAIL DRAWING)
A. RAINPROOF ENCLOSURE FOR OUTDOOR INSTALLATION SHALL BE FREE STANDING NEMA TYPE 3R GAUGE 10 CONSTRUCTION (EXCEPT GAUGE 12 STAINLESS STEEL FOR IRRIGATION CONTROLLER SERVICE) ENCLOSURE OF SUITABLE DIMENSION. ALL BOLT HEADS EXPOSED ON THE EXTERIOR OF ENCLOSURE SHALL BE ROUND HEAD GALVANIZED TYPE OR EQUAL.

7. CONTROLS
A. TYPES:
1. CIRCUIT BREAKERS - SHALL BE THERMAL MAGNETIC. EACH BREAKER SHALL BE EQUIPPED WITH A DEVICE FOR INDIVIDUAL PADLOCKING.

8. BOXES
A. TYPES: WEATHERPROOF CAST BOXES: FOR OUTDOOR AND SURFACE WIRING AND WHERE INDICATED ON THE DRAWINGS BY SYMBOL "WP", CROUSE-HINDS FD OR RUSSELL-STOLL FD SERIES OUTLET BOXES OR EQUAL.

9. RECEPTACLES
A. TYPES: ALL RECEPTACLES SHALL BE SPECIFICATION GRADE AND SHALL MEET NEMA WD-1-1974 TESTS.

10. OUTLET PLATES
A. SHALL BE STAINLESS STEEL FOR ALL RECEPTACLE AND LIGHT SWITCH, SIGNAL AND COMMUNICATION OUTLETS.

11. INSTALLATION OF POLES
A. TYPE: SHALL BE ROUND TAPERED GALVANIZED STEEL UNLESS OTHERWISE INDICATED, POLE HEIGHT SHALL BE 30' UNLESS NOTED ON THE PLAN.

12. CONDUIT
A. REQUIRED: ALL WIRING SHALL BE IN RIGID OR PVC COATED STEEL CONDUIT EXCEPT AS FOLLOWS:

13. CONDUIT INSTALLATION
A. ALL CONDUITS SHALL BE CONCEALED EXCEPT WHERE OTHERWISE INDICATED ON THE DRAWINGS.

14. CONDUCTORS
A. TYPE THHN/THWN, 600 VOLTS INSULATION PER UL 83 FOR ALL GENERAL WIRING SUBJECT TO TEMPERATURES AT 75°C MINIMUM, WET OR DRY LOCATIONS.

15. TAGGING
REQUIRED ON BOTH HOT AND NEUTRAL WIRES OF ALL CIRCUITS IN SWITCHBOARD AND PANELBOARDS, AT PULL JUNCTION AND OUTLET BOXES, AT EACH DEVICE OR LIGHTING FIXTURE.

16. EQUIPMENT AND ELECTRICAL CONNECTIONS
A. PROVIDE ALL THE INSTRUMENTS, EQUIPMENT AND LABOR REQUIRED FOR THE SPECIFIED TESTS. CONDUCT ALL THE TESTS IN THE PRESENCE OF THE GEN. MANAGER OR AUTHORIZED REPRESENTATIVE.

17. LIGHTING FIXTURES
A. TYPES:
1. AS INDICATED HEREINAFTER AND IN THE LIGHTING FIXTURE LIST, ALL FIXTURES MUST BE UL LISTED AND SUPPORTING MEMBERS SUCH AS RODS AND PIPES MUST BE APPROVED BY THE CITY OF LOS ANGELES ELECTRICAL TESTING LABORATORY.

18. RECORD DRAWINGS
A. IMMEDIATELY AFTER WORK IS INSTALLED, CAREFULLY DRAW ON PRINTS IN RED INK ALL WORK WHICH IS INSTALLED AT VARIANCE WITH THE WORK AS INDICATED ON THE DRAWINGS.

19. OPERATING MANUALS AND INSTRUCTIONS
A. THE CONTRACTOR SHALL FURNISH TO THE CITY FOUR BOUND COPIES OF OPERATING AND MAINTENANCE MANUAL FOR ALL ELECTRICAL EQUIPMENT.

20. SCOPE OF WORK
A. RENOVATION OF 3 FIELDS. INSTALL NEW LIGHTING AND PROVIDE POWER FOR NEW LIGHTING IN ALL 3 FIELDS (FIELD #6, 7, & 8).

21. CITY OF LOS ANGELES DEPARTMENT OF BUILDING AND SAFETY NOTES
A. ELECTRICAL EQUIPMENT SHALL BE LISTED OR CERTIFIED BY A CITY OF LOS ANGELES RECOGNIZED ELECTRICAL TESTING LABORATORY OR APPROVED BY THE DEPARTMENT.

22. CITY OF LOS ANGELES DEPARTMENT OF BUILDING AND SAFETY NOTES
B. NO PIPING, DUCTS OR EQUIPMENT FOREIGN TO ELECTRICAL EQUIPMENT SHALL BE PERMITTED TO BE LOCATED WITHIN THE DEDICATED SPACE ABOVE THE INDOOR/OUTDOOR ELECTRICAL EQUIPMENT.

23. CITY OF LOS ANGELES DEPARTMENT OF BUILDING AND SAFETY NOTES
C. PROVIDE AND MAINTAIN REQUIRED WORK SPACE, ADEQUATE ILLUMINATION, ACCESS TO WORKSPACE AND HEAD ROOM ABOVE ELECTRICAL EQUIPMENT.

24. CITY OF LOS ANGELES DEPARTMENT OF BUILDING AND SAFETY NOTES
D. FUSES SHALL BE PROVIDED WITH REJECTION TYPE FUSE HOLDERS IN COMPLIANCE WITH NEC ARTICLE 240.60 (B).

25. CITY OF LOS ANGELES DEPARTMENT OF BUILDING AND SAFETY NOTES
E. ELECTRICAL INSTALLATION SHALL COMPLY WITH LA CITY ELECTRICAL CODE.

26. CITY OF LOS ANGELES DEPARTMENT OF BUILDING AND SAFETY NOTES
A. TYPE THHN/THWN, 600 VOLTS INSULATION PER UL 83 FOR ALL GENERAL WIRING SUBJECT TO TEMPERATURES AT 75°C MINIMUM, WET OR DRY LOCATIONS.

27. CITY OF LOS ANGELES DEPARTMENT OF BUILDING AND SAFETY NOTES
A. TYPES:
1. COPPER WIRE FOR ALL CONDUCTORS.

28. CITY OF LOS ANGELES DEPARTMENT OF BUILDING AND SAFETY NOTES
A. TYPES: ALL RECEPTACLES SHALL BE SPECIFICATION GRADE AND SHALL MEET NEMA WD-1-1974 TESTS.

ELECTRICAL GENERAL NOTES

1. THE CONTRACTOR SHALL VISIT THE JOB SITE PRIOR TO SUBMISSION OF BID TO BECOME FAMILIAR WITH THE EXISTING CONDITIONS AND EXTENT OF THEIR WORK.

2. IT IS INTENT OF THESE PLANS AND SPECIFICATIONS THAT A COMPLETE AND WORKABLE ELECTRICAL INSTALLATION BE PROVIDED FOR ALL EQUIPMENT DESCRIBED. ANY INCONSISTENCY SHALL BE BROUGHT TO THE PROJECT MANAGER'S ATTENTION FOR CLARIFICATION.

3. CONTRACTOR SHALL OBTAIN AND PAY FOR ALL NECESSARY PERMITS PRIOR TO JOB START AND OBTAIN FINAL INSPECTION APPROVAL FROM THE DEPARTMENT OF BUILDING AND SAFETY PRIOR TO FINAL ACCEPTANCE OF THE PROJECT.

4. CONTRACTOR SHALL SUBMIT SHOP DRAWINGS OF ALL ELECTRICAL EQUIPMENT AND MATERIALS TO THE DEPARTMENT FOR APPROVAL PRIOR TO ORDERING AND SHALL BE RESPONSIBLE FOR ANY DELAYS INCURRED DUE TO REJECTED ITEMS.

5. ANY DAMAGES DONE IN THE COURSE OF CONSTRUCTION SHALL BE REPAIRED AT CONTRACTOR'S EXPENSE SATISFACTORY TO THE PROJECT MANAGER.

6. CONDUIT RUNS ARE SHOWN DIAGRAMMATICALLY AND MAYBE VARIED IN THE FIELD. MINIMUM CONDUIT SIZE SHALL BE 3/4" UNLESS NOTED ON THE PLAN. EXPOSED CONDUIT SHALL BE PAINTED TO MATCH THE ADJACENT FINISH.

7. CONTRACTOR SHALL FURNISH TO THE DEPARTMENT A VANDAL PROOF SCREW DRIVER FOR EACH TYPE OF VANDAL PROOF SCREWS USED IN THE PROJECT.

8. PVC INSTALLED UNDERGROUND SHALL BE 24-INCHES DEEP AND COVERED WITH AT LEAST 3-INCH 100-100 CONCRETE MIX.

ENGINEERING



CLIENT: DEPARTMENT OF RECREATION & PARKS
GENERAL MANAGER:
SHEET TITLE: ELECTRICAL GENERAL NOTES

PROJECT: RIO DE LOS ANGELES STATE PARK FIELDS MAINTENANCE IMPROVEMENTS PROJECT

ADDRESS: 1900 WEST SAN FERNANDO ROAD, LOS ANGELES, CA, 90039

CIP NO. G1188

INDEX NO. RP-300125

CITY ENGINEER DATE:
DESIGN GROUP: UFAQ SHAH TARJO, ELECTRICAL ENG. ASSOC. III

ARCHITECT: UFAQ SHAH TARJO, ELECTRICAL ENG. ASSOC. III
DESIGNED BY: UFAQ SHAH TARJO, ELECTRICAL ENG. ASSOC. III

DRAWN BY: ERNESTO GONZALEZ, LANDSCAPE ARCH. ASSOCIATE II 7/06/2023
CHECKED BY: UFAQ SHAH TARJO, ELECTRICAL ENG. ASSOC. III

APPROVED BY: DAVID COOL, ELECTRICAL ENG. ASSOC. IV

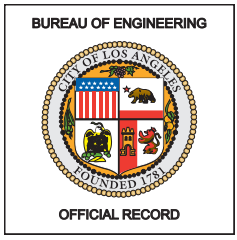
WORK ORDER NO. E1908951

FILE NO. 999

DRAWING NO. E101

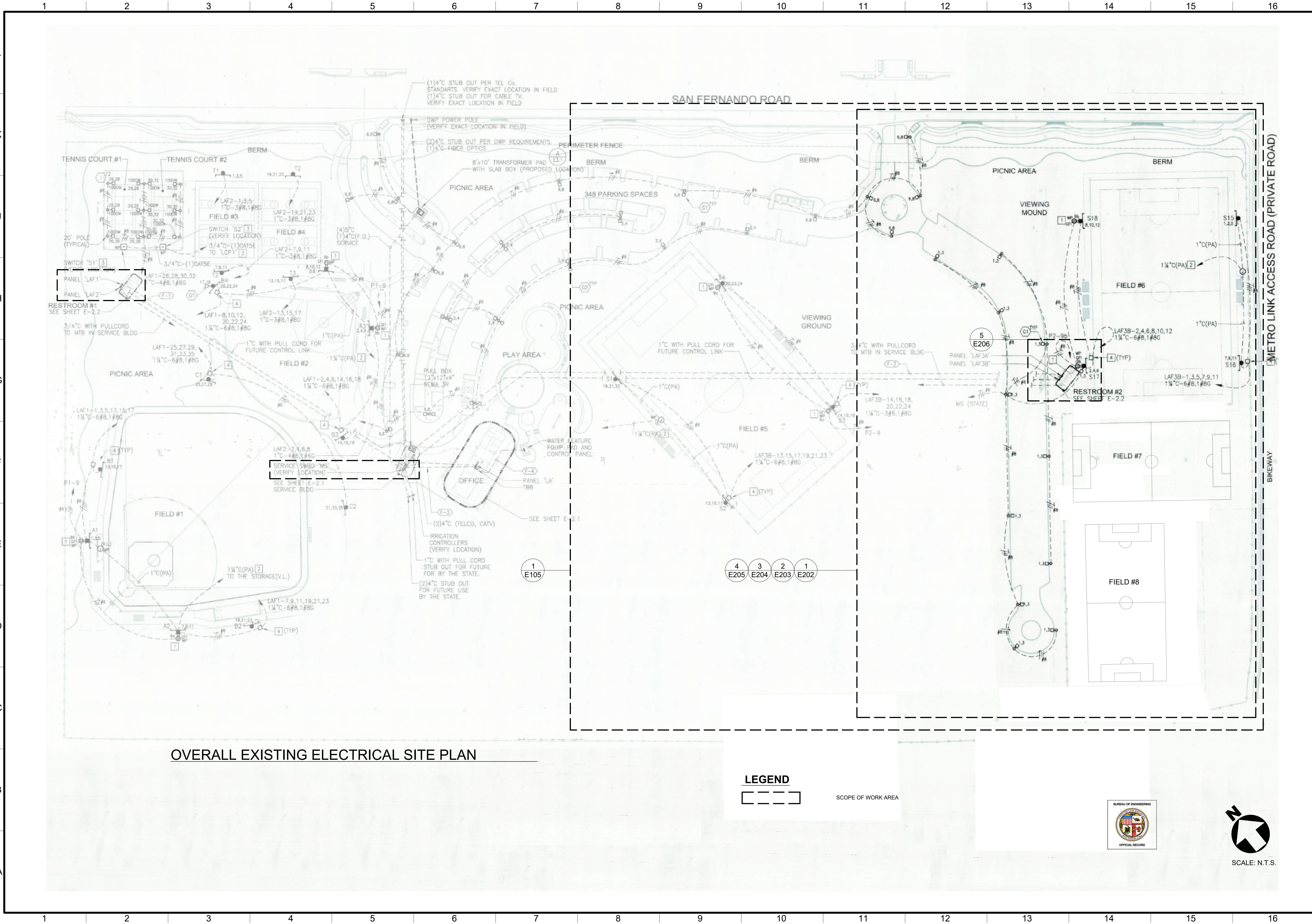
SHEET 78 OF 100 SHEETS

CITY OF LOS ANGELES DEPARTMENT OF PUBLIC WORKS BUREAU OF ENGINEERING



REVISION DATES (DESIGN STAGE ONLY) A B C D E F G H J K L

REVISION DATES (DESIGN STAGE ONLY)



THIS PLAN IS ELECTRONICALLY SIGNED AND STAMPED

BUREAU OF ENGINEERING
CLIENT: DEPARTMENT OF RECREATION & PARKS
GENERAL MANAGER:

SHEET TITLE: OVERALL EXISTING ELECTRICAL SITE PLAN
 PROJECT: RIO DE LOS ANGELES STATE PARK FIELDS MAINTENANCE IMPROVEMENTS PROJECT
 ADDRESS: 1900 WEST SAN FERNANDO ROAD, LOS ANGELES, CA. 90039

DEPARTMENT OF PUBLIC WORKS

INDEX NO. **RP-300125**
 CIP NO. **G1188**

CITY OF LOS ANGELES
 TED ALLEN, P.E., CITY ENGINEER

DESIGN GROUP: UFAQ SHAH TARIO, ELECTRICAL ENG. ASSOC. III
 ARCHITECT: UFAQ SHAH TARIO, ELECTRICAL ENG. ASSOC. III
 DESIGNED BY: ERNESTO GONZALEZ, LANDSCAPE ARCH. ASSOCIATE II | 7/06/2023
 DRAWN BY: UFAQ SHAH TARIO, ELECTRICAL ENG. ASSOC. III
 CHECKED BY: DAVID COO, ELECTRICAL ENG. ASSOC. IV
 APPROVED BY:

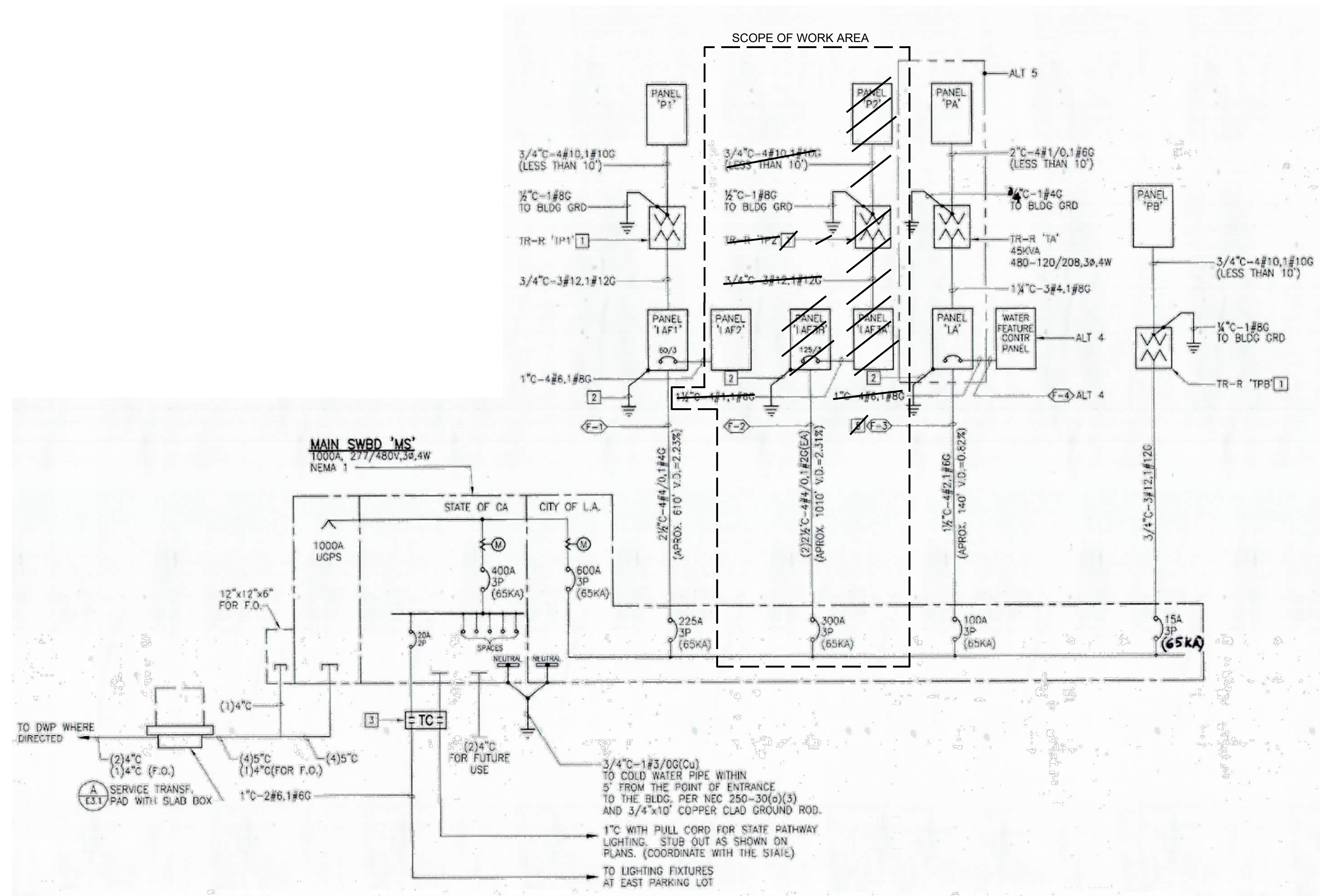
WORK ORDER NO. **E1908951**
 FILE NO. **999**
 DRAWING NO. **E103**
 SHEET **80** OF **100** SHEETS

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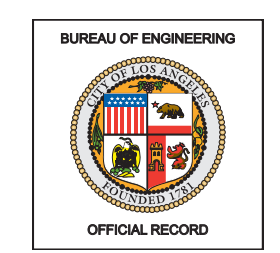
REVISION DATES
(DESIGN STAGE ONLY)

LEGEND

- MATCH LINE
- - - - - EASEMENT LINE
- (CITY DISTRICT MAPS) PROPERTY LINE
- - - - - CENTERLINE LINE
- FLOW LINE
- /////// EXISTING UTILITIES OR STRUCTURE TO BE DEMOLISHED
- _____ EXISTING ELEMENT
- _____ PROPOSED ELEMENT



DEMOLITION SINGLE LINE



ENGINEERING

CITY OF LOS ANGELES

REGISTERED PROFESSIONAL ENGINEER

UFAG SHAH TARIQ, P.E. No. E22739-D

ELECTRICAL STATE OF CALIFORNIA

BUREAU OF ENGINEERING

CLIENT: DEPARTMENT OF RECREATION & PARKS

GENERAL MANAGER:

DEPARTMENT OF PUBLIC WORKS

SHEET TITLE: DEMO SINGLE LINE DIAGRAM

PROJECT: RIO DE LOS ANGELES STATE PARK FIELDS MAINTENANCE IMPROVEMENTS PROJECT

ADDRESS: 1900 WEST SAN FERNANDO ROAD, LOS ANGELES, CA, 90039

NO. _____

REVISION DESCRIPTION _____

DATE _____

BY _____

INDEX NO. **RP-300125**

CIP NO. **G1188**

CITY ENGINEER: TED ALLEN, P.E.

DESIGN GROUP: UFAG SHAH TARIQ, ELECTRICAL ENG. ASSOC. III

ARCHITECT: UFAG SHAH TARIQ, ELECTRICAL ENG. ASSOC. III

DESIGNED BY: UFAG SHAH TARIQ, ELECTRICAL ENG. ASSOC. III

DRAWN BY: ERNESTO GONZALEZ, LANDSCAPE ARCH. ASSOCIATE II

CHECKED BY: UFAG SHAH TARIQ, ELECTRICAL ENG. ASSOC. III

APPROVED BY: DAVID COO, ELECTRICAL ENG. ASSOC. IV

DATE: 7/06/2023

WORK ORDER NO. **E1908951**

FILE NO. **999**

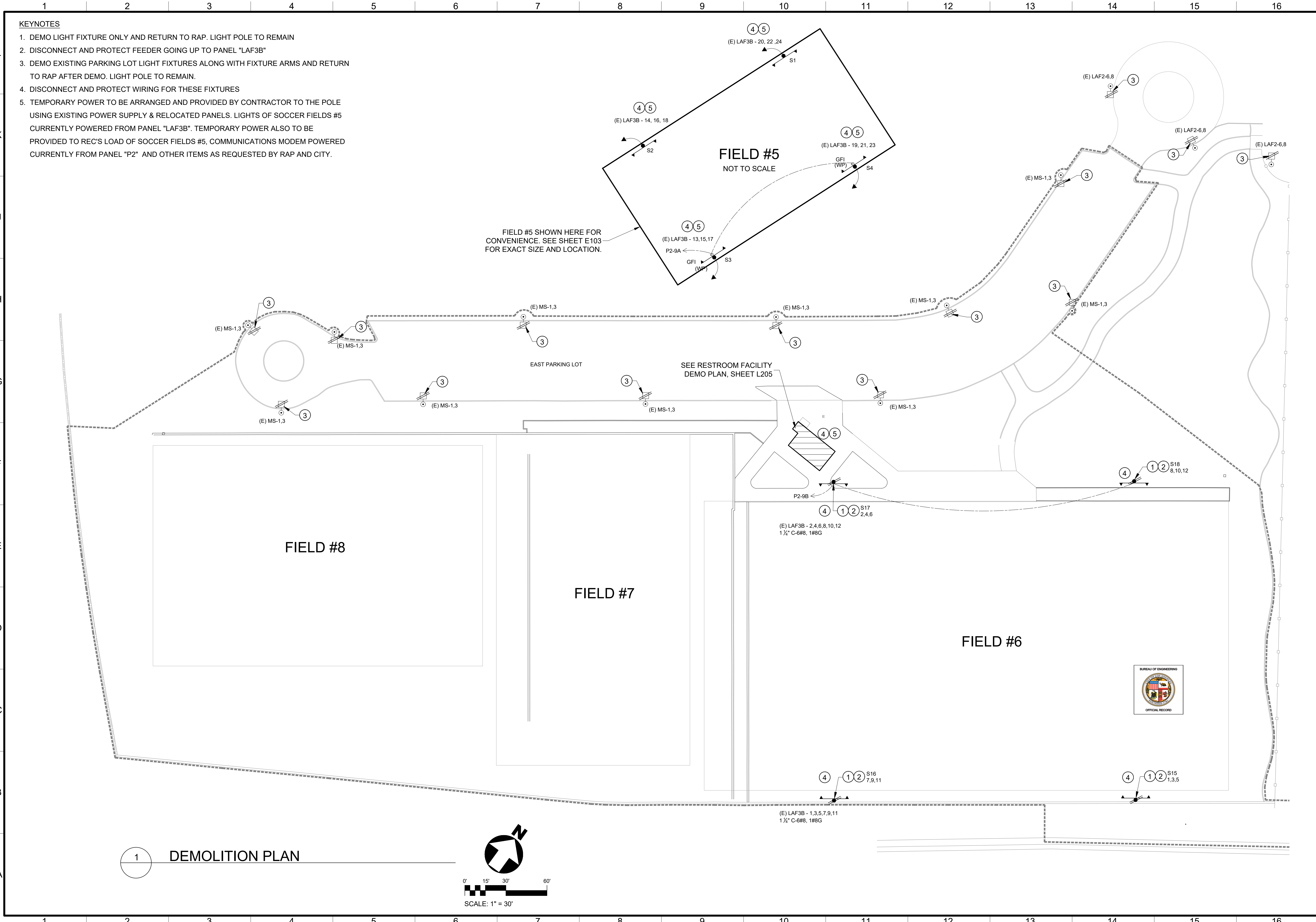
DRAWING NO. **E104**

SHEET **81** OF 100 SHEETS

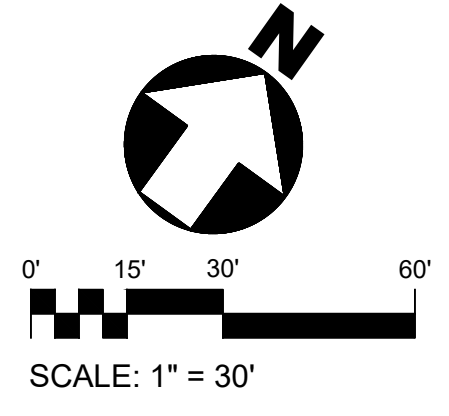
KEYNOTES

1. DEMO LIGHT FIXTURE ONLY AND RETURN TO RAP. LIGHT POLE TO REMAIN
2. DISCONNECT AND PROTECT FEEDER GOING UP TO PANEL "LAF3B"
3. DEMO EXISTING PARKING LOT LIGHT FIXTURES ALONG WITH FIXTURE ARMS AND RETURN TO RAP AFTER DEMO. LIGHT POLE TO REMAIN.
4. DISCONNECT AND PROTECT WIRING FOR THESE FIXTURES
5. TEMPORARY POWER TO BE ARRANGED AND PROVIDED BY CONTRACTOR TO THE POLE USING EXISTING POWER SUPPLY & RELOCATED PANELS. LIGHTS OF SOCCER FIELDS #5 CURRENTLY POWERED FROM PANEL "LAF3B". TEMPORARY POWER ALSO TO BE PROVIDED TO REC'S LOAD OF SOCCER FIELDS #5, COMMUNICATIONS MODEM POWERED CURRENTLY FROM PANEL "P2" AND OTHER ITEMS AS REQUESTED BY RAP AND CITY.

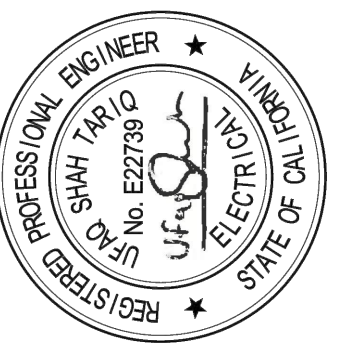
REVISION DATES (DESIGN STAGE ONLY)



1 DEMOLITION PLAN



ENGINEERING
CITY OF LOS ANGELES



BUREAU OF ENGINEERING
CLIENT: DEPARTMENT OF RECREATION & PARKS
GENERAL MANAGER:
SHEET TITLE: DEMOLITION PLAN
PROJECT: RIO DE LOS ANGELES STATE PARK FIELDS MAINTENANCE IMPROVEMENTS PROJECT
ADDRESS: 1900 WEST SAN FERNANDO ROAD, LOS ANGELES, CA, 90039

INDEX NO. **RP-300125**
CIP NO. **G1188**

CITY OF LOS ANGELES DEPARTMENT OF PUBLIC WORKS
CITY ENGINEER: TED ALLEN, P.E., CITY ENGINEER
DESIGN GROUP: UFAQ SHAH TARIQ, ELECTRICAL ENG. ASSOC. III
ARCHITECT: UFAQ SHAH TARIQ, ELECTRICAL ENG. ASSOC. III
DESIGNED BY: ERNESTO GONZALEZ, LANDSCAPE ARCH. ASSOCIATE II | 7/06/2023
DRAWN BY: UFAQ SHAH TARIQ, ELECTRICAL ENG. ASSOC. III
CHECKED BY: DAVID COOL, ELECTRICAL ENG. ASSOC. IV
APPROVED BY:

WORK ORDER NO. **E1908951**
FILE NO. **999**
DRAWING NO. **E105**
SHEET **82** OF 100 SHEETS

KEYNOTES

- IN GROUND PULL BOXES SHALL BE 9-5/8" X 12" D. PROVIDE CONCRETE COVER. VERIFY EXACT LOCATION IN FIELD
- INSTALL NEW TYPE F LIGHTS ON THE NEW LIGHT POLES AT 15' HEIGHT
- TEMPORARY POWER PROVIDED BY CONTRACTOR WILL HAVE THE EXISTING LOADS FROM PANELS LAF3A, LAF3B, P2 AND MUSCO PANEL AND TRANSFORMER "TP2" AND POWER THE EXISTING LOADS, COMM. MODEM AND POLE LIGHTS OF SOCCER FIELD #5
- AFTER NEW PANELS INSTALLED RUN 3/4"C,2#12 + 1#12 GND FROM PANEL P2 TO PROVIDE POWER TO STORAGE LTG. RECEPTACLES AND COMM. MODEM
- AFTER NEW PANELS ARE INSTALLED, USE SPLICE METHOD TO BRING THE EXISTING FEEDER (2) 1/2"C - 4#4/0 + 1#2 GND (THAT WAS DISCONNECTED AND PROTECTED FOR REUSE DURING DEMO) COMING INTO NEW PANEL "LAF3B". SEE SHEET E206 FOR MORE DETAILS

EQUIPMENT LIST FOR STADIUM LIGHTS

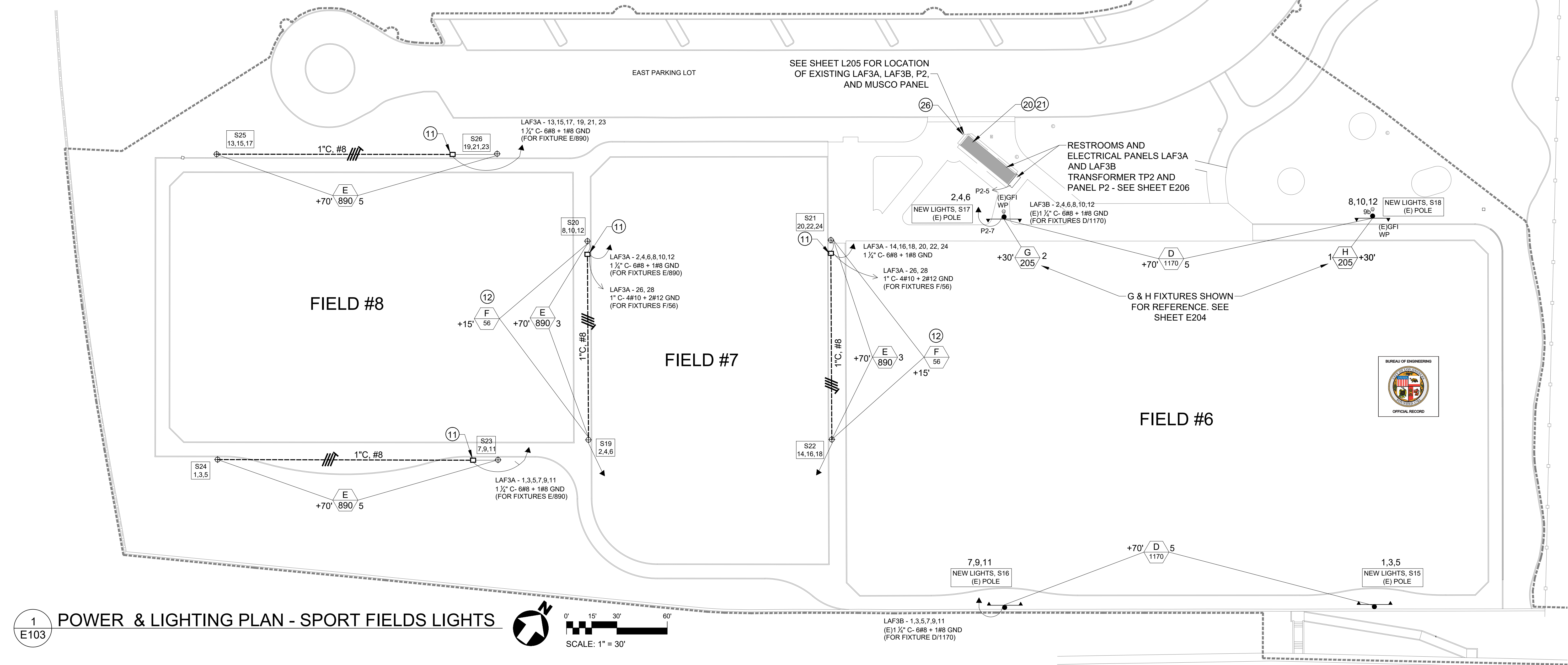
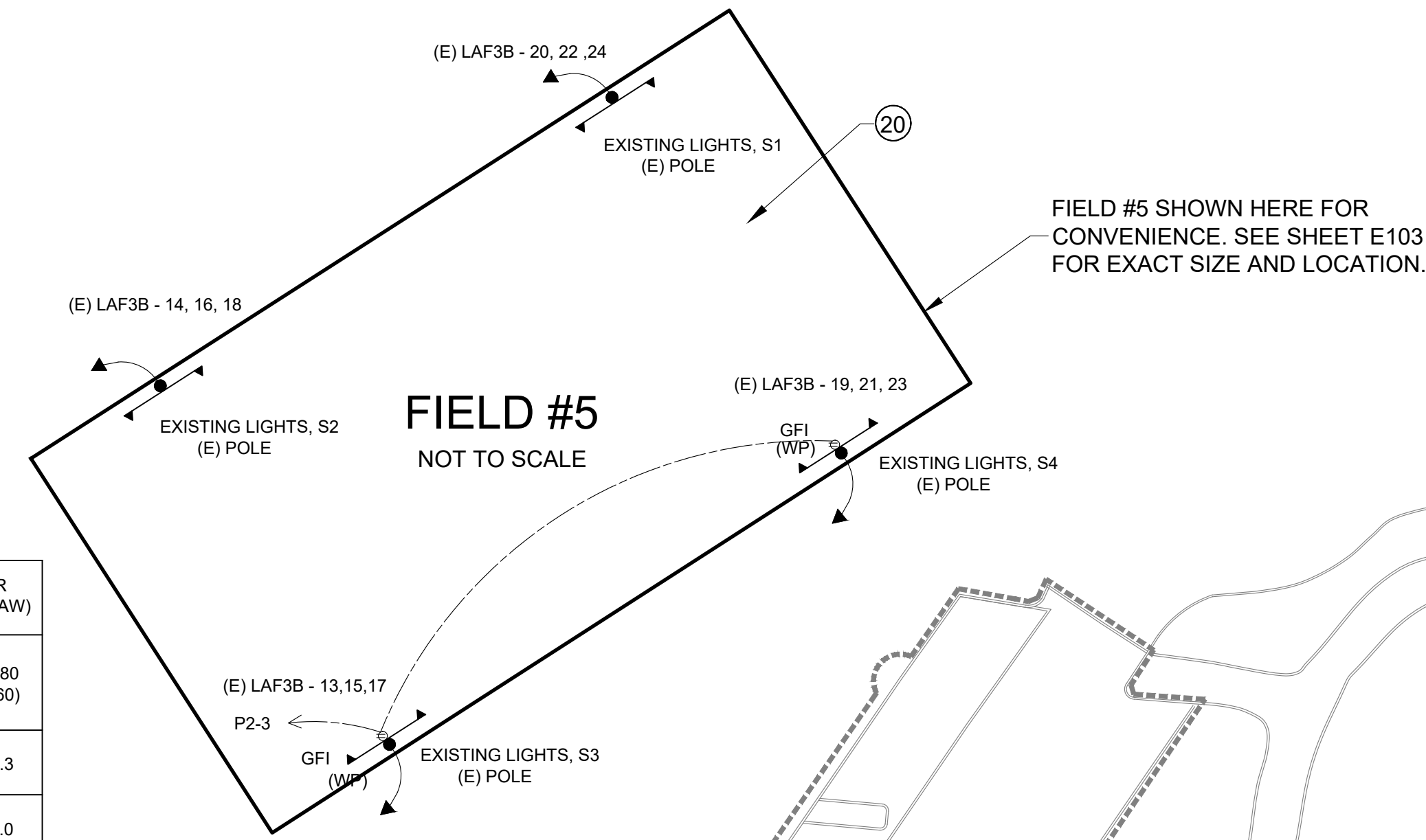
QTY	POLE			LUMINAIRES		QTY/POLE
	LOCATION	SIZE	GRADE ELEVATION	MOUNTING HEIGHT	LUMINAIRE TYPE	
2(E)	S15(E) S16(E)	70'	-	70'	TLC-LED-1200	5
1(E)	S17(E)	70'	-	70', 30'	TLC-LED-1200 NV-1-T3-64L-1-30K	5
1(E)	S18(E)	70'	-	70', 30'	TLC-LED-1200 NV-1-T4-64L-1-30K	1
4	S19-S22	70'	-	70' 15'	TLC-LED-900 NLS VSR-S-T2_16L-1-30KUNV-DP-6	3
4	S23-S26	70'	-	70'	TLC-LED-900	4
12	TOTALS					56

TLC SINGLE LUMINAIRE AMPERAGE DRAW CHART

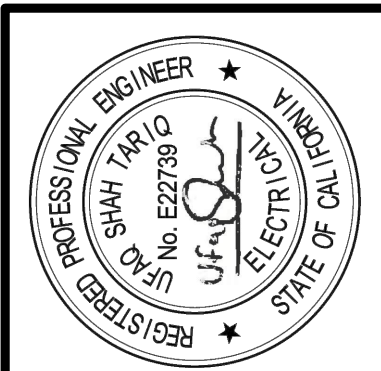
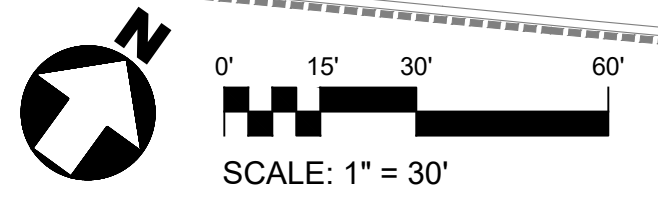
BALLAST SPECIFICATIONS (.90 MIN. POWER FACTOR)	LINE AMPERAGE PER LUMINAIRE (MAX DRAW)		
	240 (60)	277 (60)	480 (60)
SINGLE PHASE VOLTAGE	240 (60)	277 (60)	480 (60)
TLC-LED-900	4.6	4.0	2.3
TLC-LED-1200	6.1	5.2	3.0

LIGHTING FIXTURE SCHEDULE

TYPE	MOUNTING			QTY OF NEW POLES	LED LAMPS	WATTAGE	QTY	MANUFACTURER	FIXTURE CATALOG NO.	POLE CATALOG NO.	REMARKS
	EXISTING	NEW	NEW								
D	-	X	-	-	1170	-	20	MUSCO	TLC-LED-1200	-	REFER TO DETAIL E13/E302
E	-	-	X	8	890	-	32	MUSCO	TLC-LED-900	REFER TO SHEET MS1 & MS2	REFER TO SHEET MS1 & MS2
F	-	-	X	SEE REMARKS	56	-	4	NLS LIGHTING	NLS VSR-S-T2_16L-1-30K-UNV-BRZ-DPS6-FSP-40	-	FIXTURE SHALL BE MOUNTED ONTO MUSCO STADIUM LIGHT POLE. REFER TO SHEET MS1 AND DETAIL A & J, SHEET MD3
G	X	X	X	7	205	-	20	NLS LIGHTING	NV-1-T3-64L-1-30K-FSP-40-DPS3-BRZ - DOUBLE @ 30'	SSSP-30-6S-7G-12BC-D180-BRZ	SEE PLAN FOR LOCATION OF G FIXTURE TO BE MOUNTED ON EXISTING POLES OR ON NEW POLES
H	X	X	-	-	205	-	3	NLS LIGHTING	NV-1-T4-64L-1-30K-FSP-40-DPS3-BRZ - SINGLE @ 30'	-	SEE PLAN FOR LOCATION OF H FIXTURE TO BE MOUNTED ON EXISTING POLES. PROVIDE PROPER MOUNTING HARDWARE PER POLE TYPE
J	-	-	X	2	205	-	2	NLS LIGHTING	NV-1-T3-64L-1-30K-FSP-40-DPS3-BRZ - SINGLE @ 30'	SSSP-30-6S-7G-12BC-SGL-BRZ	-



1 E103 POWER & LIGHTING PLAN - SPORT FIELDS LIGHTS



BUREAU OF ENGINEERING
 CLIENT: DEPARTMENT OF RECREATION & PARKS
 GENERAL MANAGER:
 SHEET TITLE: POWER PLAN - SPORT FIELDS LIGHTS
 PROJECT: RIO DE LOS ANGELES STATE PARK FIELDS MAINTENANCE IMPROVEMENTS PROJECT
 ADDRESS: 1900 WEST SAN FERNANDO ROAD, LOS ANGELES, CA, 90039

INDEX NO. **RP-300125**
 CIP NO. **G1188**

TED ALLEN, P.E., CITY ENGINEER
 DESIGN GROUP
 ENGINEER: UFAQ SHAH TARIQ, ELECTRICAL ENG. ASSOC. III
 ARCHITECT: UFAQ SHAH TARIQ, ELECTRICAL ENG. ASSOC. III
 DESIGNED BY: UFAQ SHAH TARIQ, ELECTRICAL ENG. ASSOC. III
 DRAWN BY: ERNESTO GONZALEZ, LANDSCAPE ARCH. ASSOCIATE II | 7/06/2023
 CHECKED BY: UFAQ SHAH TARIQ, ELECTRICAL ENG. ASSOC. III
 APPROVED BY: DAVID COO, ELECTRICAL ENG. ASSOC. IV

WORK ORDER NO. **E1908951**
 FILE NO. **999**
E202
 SHEET **84** OF 100 SHEETS

REVISION DATES (DESIGN STAGE ONLY) THE CITY OF LOS ANGELES OR ITS OFFICERS OR AGENTS SHALL NOT BE RESPONSIBLE FOR THE ACCURACY OR COMPLETENESS OF ELECTRONIC COPIES OF THIS PLAN SHEET.

THIS PLAN WAS ELECTRONICALLY SIGNED AND STAMPED

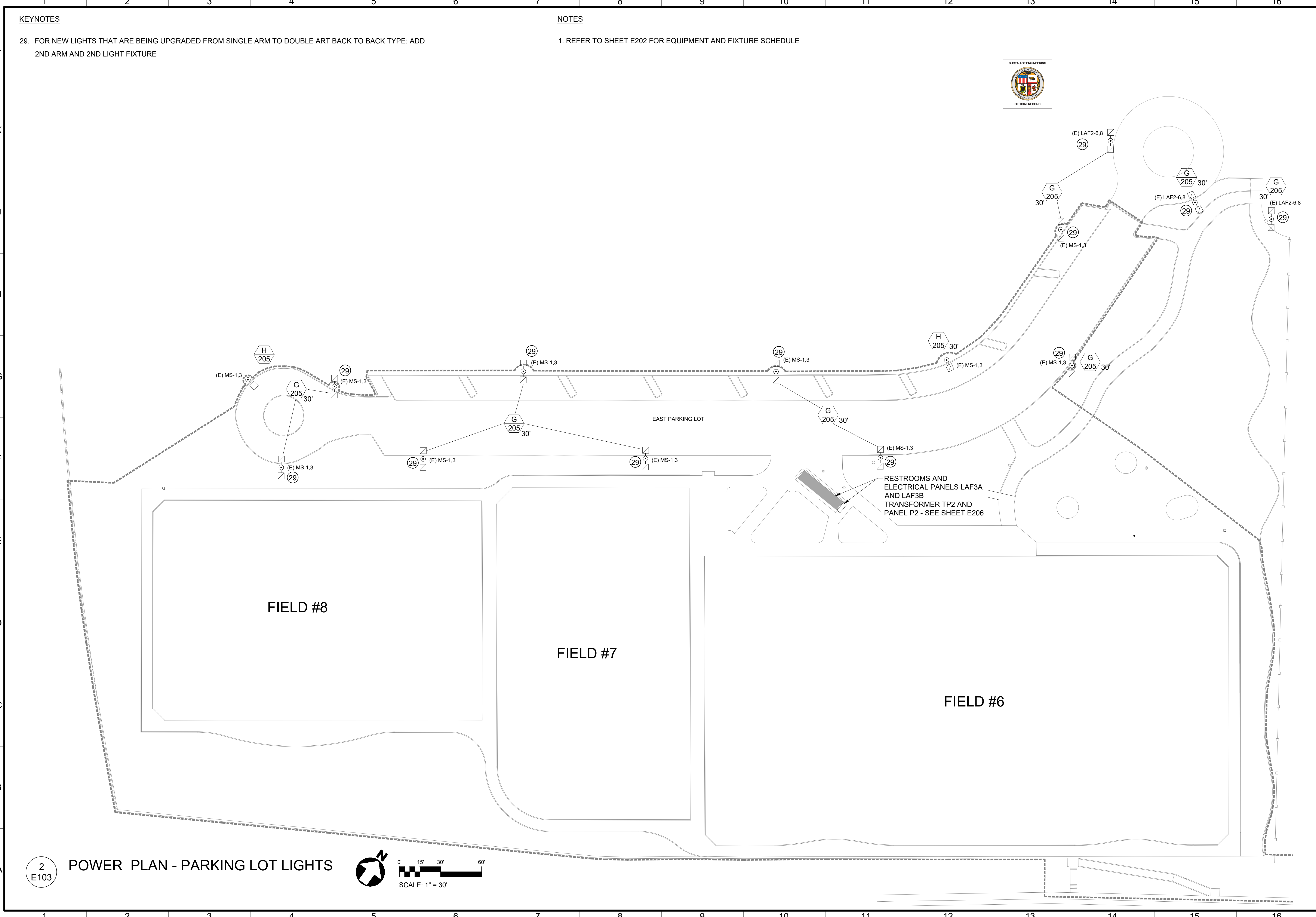
KEYNOTES

29. FOR NEW LIGHTS THAT ARE BEING UPGRADED FROM SINGLE ARM TO DOUBLE ARM BACK TO BACK TYPE: ADD 2ND ARM AND 2ND LIGHT FIXTURE

NOTES

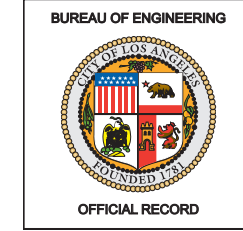
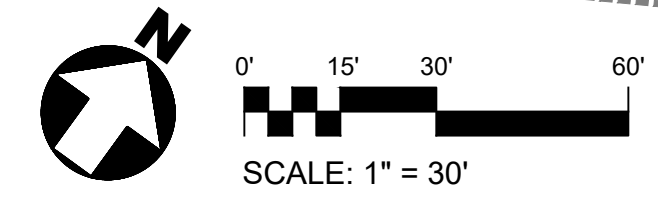
1. REFER TO SHEET E202 FOR EQUIPMENT AND FIXTURE SCHEDULE

REVISION DATES (DESIGN STAGE ONLY)
THE CITY OF LOS ANGELES OR ITS OFFICERS OR AGENTS SHALL NOT BE RESPONSIBLE FOR THE ACCURACY OR COMPLETENESS OF ELECTRONIC COPIES OF THIS PLAN SHEET.



2 POWER PLAN - PARKING LOT LIGHTS

E103



THIS PLAN WAS ELECTRONICALLY SIGNED AND STAMPED

ENGINEERING
CITY OF LOS ANGELES

REGISTERED PROFESSIONAL ENGINEER
UFAQ SHAH TARIO
No. E27239
STATE OF CALIFORNIA

BUREAU OF ENGINEERING

CLIENT: DEPARTMENT OF RECREATION & PARKS
GENERAL MANAGER:

SHEET TITLE: POWER PLAN - PARKING LOT LIGHTS
PROJECT: RIO DE LOS ANGELES STATE PARK FIELDS MAINTENANCE IMPROVEMENTS PROJECT
ADDRESS: 1900 WEST SAN FERNANDO ROAD, LOS ANGELES, CA. 90039

NO.	REVISION DESCRIPTION	DATE	BY

INDEX NO. **RP-300125**

CIP NO. **G1188**

TED ALLEN, P.E., CITY ENGINEER

DESIGN GROUP

ENGINEER: UFAQ SHAH TARIO, ELECTRICAL ENG. ASSOC. III
ARCHITECT: UFAQ SHAH TARIO, ELECTRICAL ENG. ASSOC. III
DESIGNED BY: UFAQ SHAH TARIO, ELECTRICAL ENG. ASSOC. III
DRAWN BY: ERNESTO GONZALEZ, LANDSCAPE ARCH. ASSOCIATE II | 7/06/2023
CHECKED BY: UFAQ SHAH TARIO, ELECTRICAL ENG. ASSOC. III
APPROVED BY: DAVID COO, ELECTRICAL ENG. ASSOC. IV

WORK ORDER NO. **E1908951**

FILE NO. **999**

DRAWING NO. **E203**

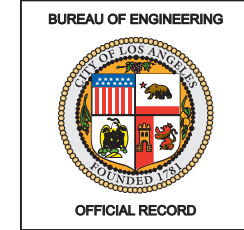
SHEET **85** OF 100 SHEETS

KEYNOTES

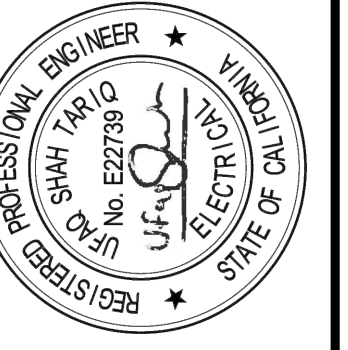
29. FOR NEW LIGHTS THAT ARE BEING UPGRADED FROM SINGLE ARM TO DOUBLE ARE BACK TO BACK TYPE: ADD 2ND ARM AND 2ND LIGHT FIXTURE

NOTES

1. REFER TO SHEET E202 FOR EQUIPMENT AND FIXTURE SCHEDULE



ENGINEERING



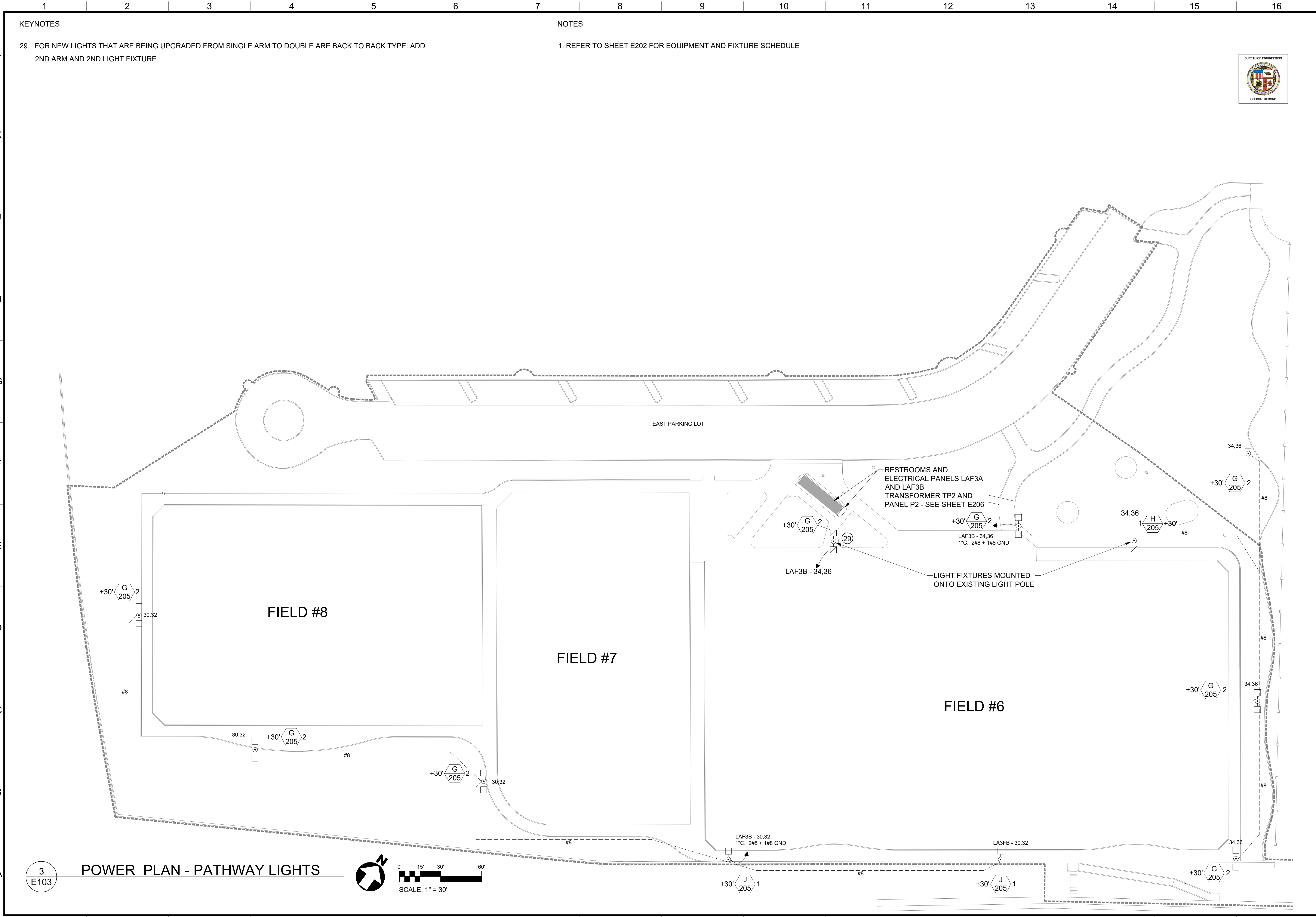
BUREAU OF ENGINEERING
 CLIENT: DEPARTMENT OF RECREATION & PARKS
 GENERAL MANAGER:
 SHEET TITLE: POWER PLAN - PATHWAY LIGHTS
 PROJECT: RIO DE LOS ANGELES STATE PARK FIELDS MAINTENANCE IMPROVEMENTS PROJECT
 ADDRESS: 1900 WEST SAN FERNANDO ROAD, LOS ANGELES, CA, 90039

INDEX NO. **RP-300125**
 CIP NO. **G1188**

CITY ENGINEER
 DESIGNER: UFAO SHAH TARIO, ELECTRICAL ENG. ASSOC. III
 ARCHITECT:
 DESIGNED BY: UFAO SHAH TARIO, ELECTRICAL ENG. ASSOC. III
 DRAWN BY: ERNESTO GONZALEZ, LANDSCAPE ARCH. ASSOCIATE II | 7/06/2023
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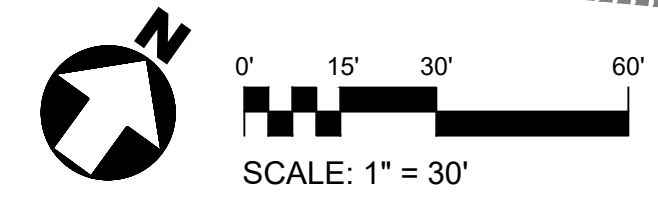
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 FILE NO. **999**
 DRAWING NO. **E204**
 SHEET **86** OF 100 SHEETS

REVISION DATES (DESIGN STAGE ONLY)

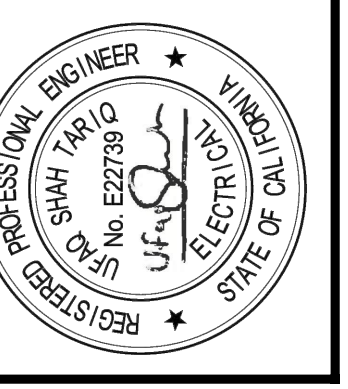
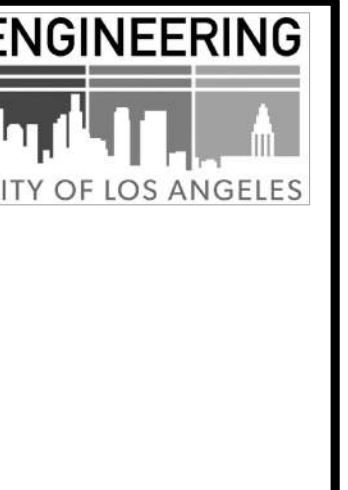


3
E103

POWER PLAN - PATHWAY LIGHTS



KEYNOTES
 22. 3/4"C, 2#12+1#12 GND
 23. 1"C, 4#12+2#12 GND
 27. ADD 2 NEW GV-TVD4810 DOME CAMERAS ON (E) POLES #28 AND 29 @ 16' HEIGHT.
 POWER THE CAMERAS BY CONNECTING WIRES TO THE DUPLEX OUTLET AVAILABLE
 ON THE (E) POLES #28 AND #29. SEE SHEET E302 FOR MORE DETAILS.



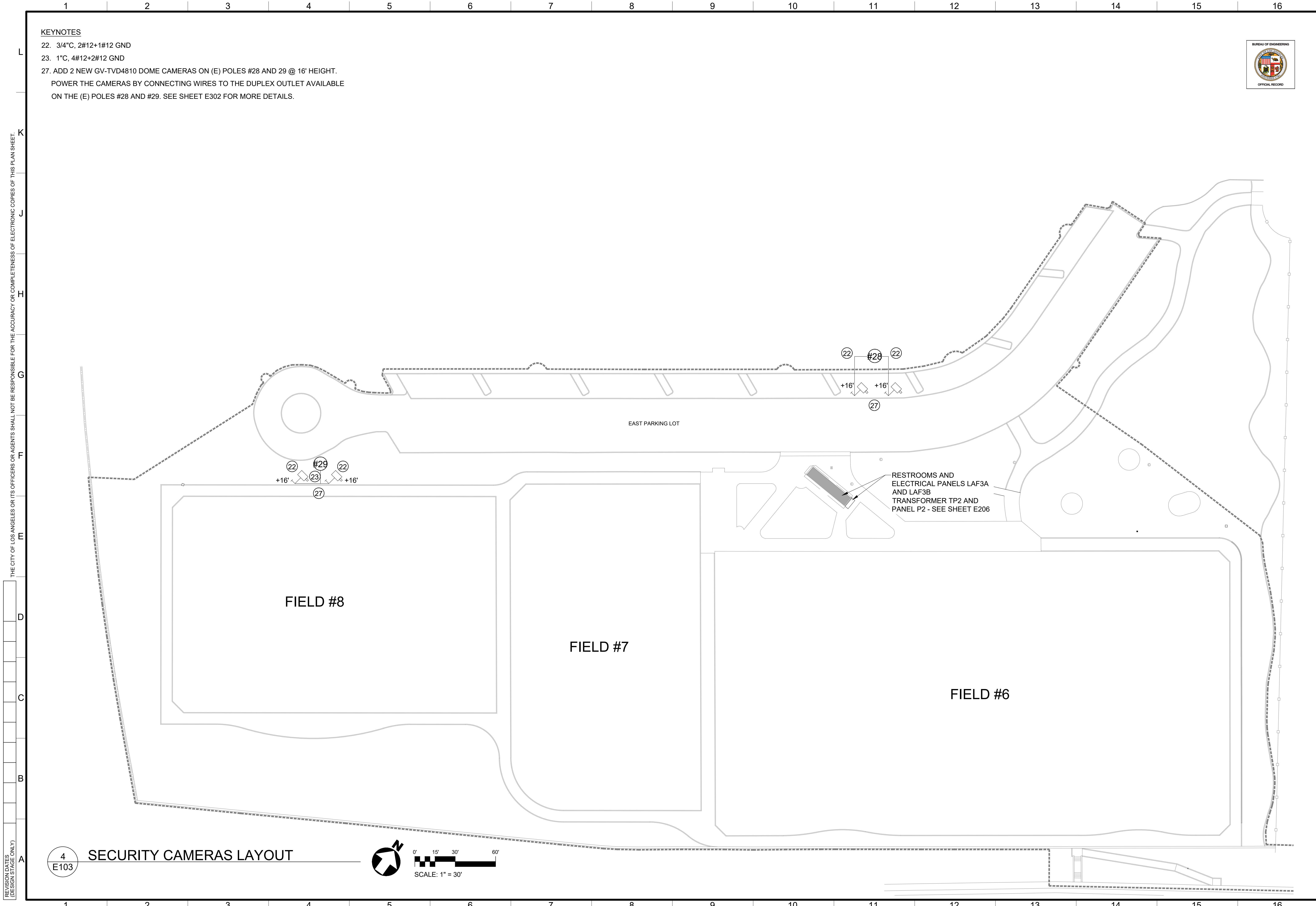
BUREAU OF ENGINEERING
 CLIENT: DEPARTMENT OF RECREATION & PARKS
 GENERAL MANAGER:
 SHEET TITLE: SECURITY CAMERAS LAYOUT
 PROJECT: RIO DE LOS ANGELES STATE PARK FIELDS MAINTENANCE IMPROVEMENTS PROJECT
 ADDRESS: 1900 WEST SAN FERNANDO ROAD, LOS ANGELES, CA, 90039

DEPARTMENT OF PUBLIC WORKS
 INDEX NO. **RP-300125**
 CIP NO. **G1188**

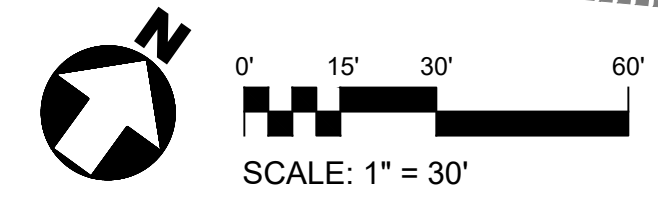
CITY ENGINEER
 DESIGNER: UFAQ SHAH TARRU, ELECTRICAL ENG. ASSOC. III
 ARCHITECT:
 DESIGNED BY: UFAQ SHAH TARRU, ELECTRICAL ENG. ASSOC. III
 DRAWN BY: ERNESTO GONZALEZ, LANDSCAPE ARCH. ASSOCIATE II | 7/06/2023
 CHECKED BY: UFAQ SHAH TARRU, ELECTRICAL ENG. ASSOC. III
 APPROVED BY: DAVID COO, ELECTRICAL ENG. ASSOC. IV

WORK ORDER NO. **E1908951**
 FILE NO. **999**
 DRAWING NO. **E205**
 SHEET **87** OF 100 SHEETS

REVISION DATES (DESIGN STAGE ONLY)



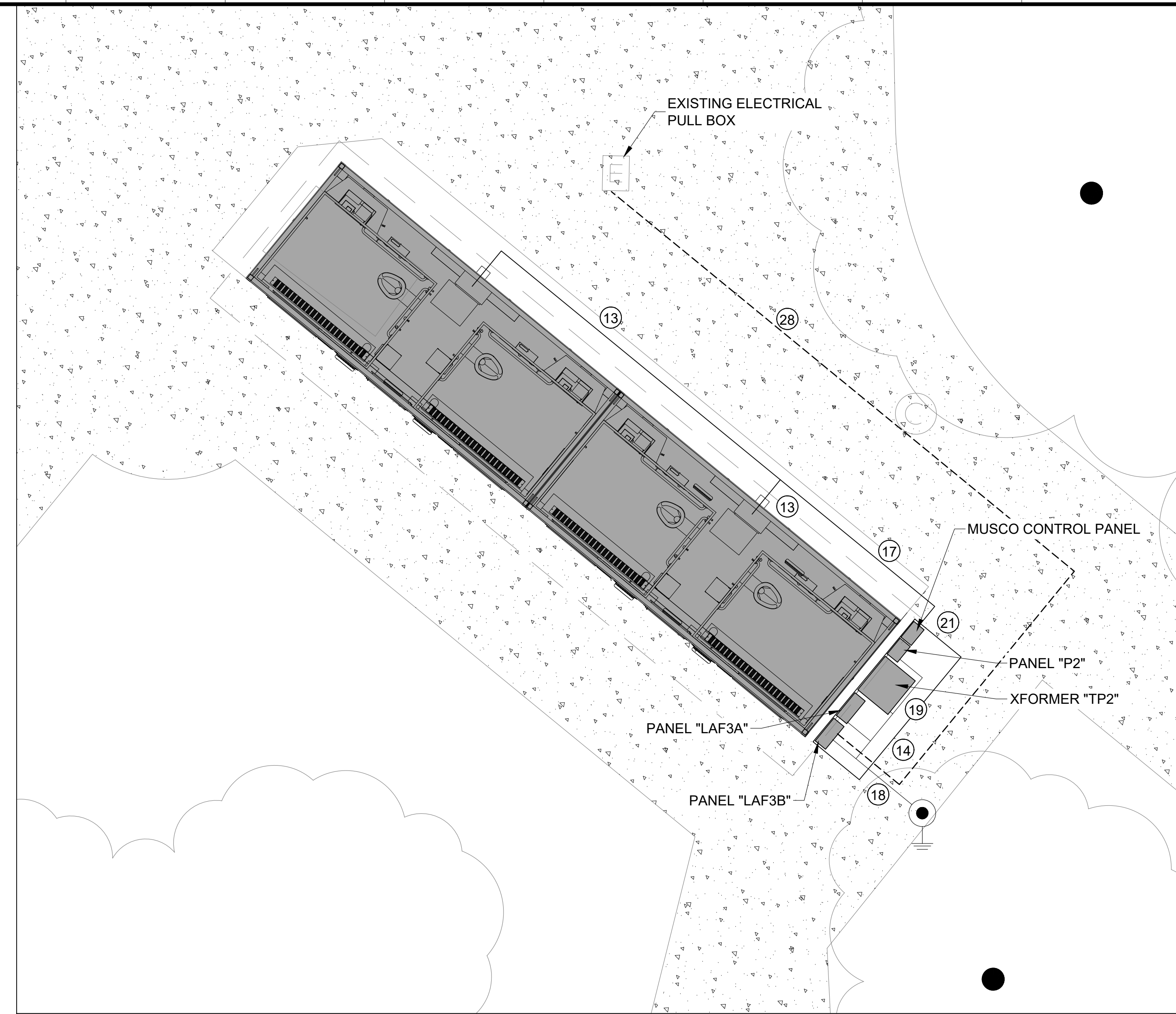
4 SECURITY CAMERAS LAYOUT
 E103



REVISION DATES (DESIGN STAGE ONLY)

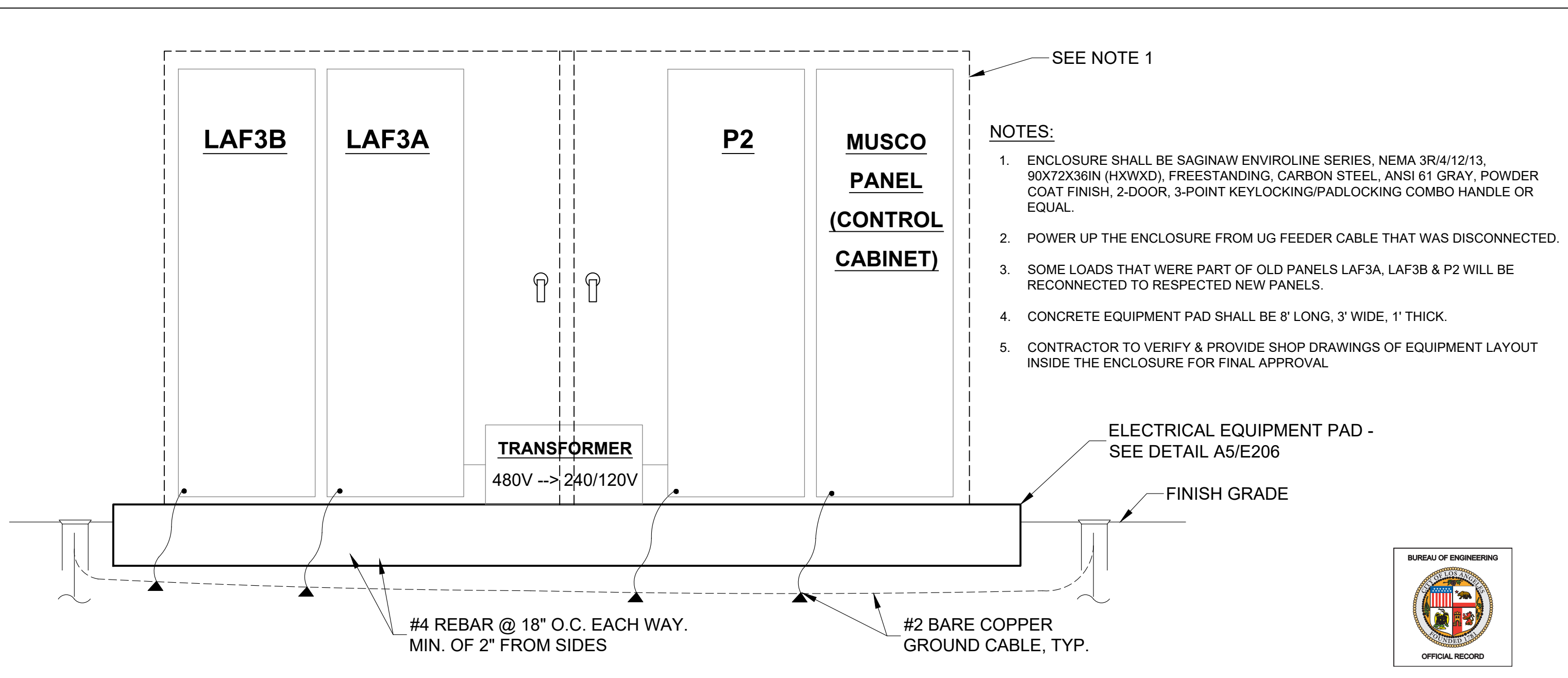
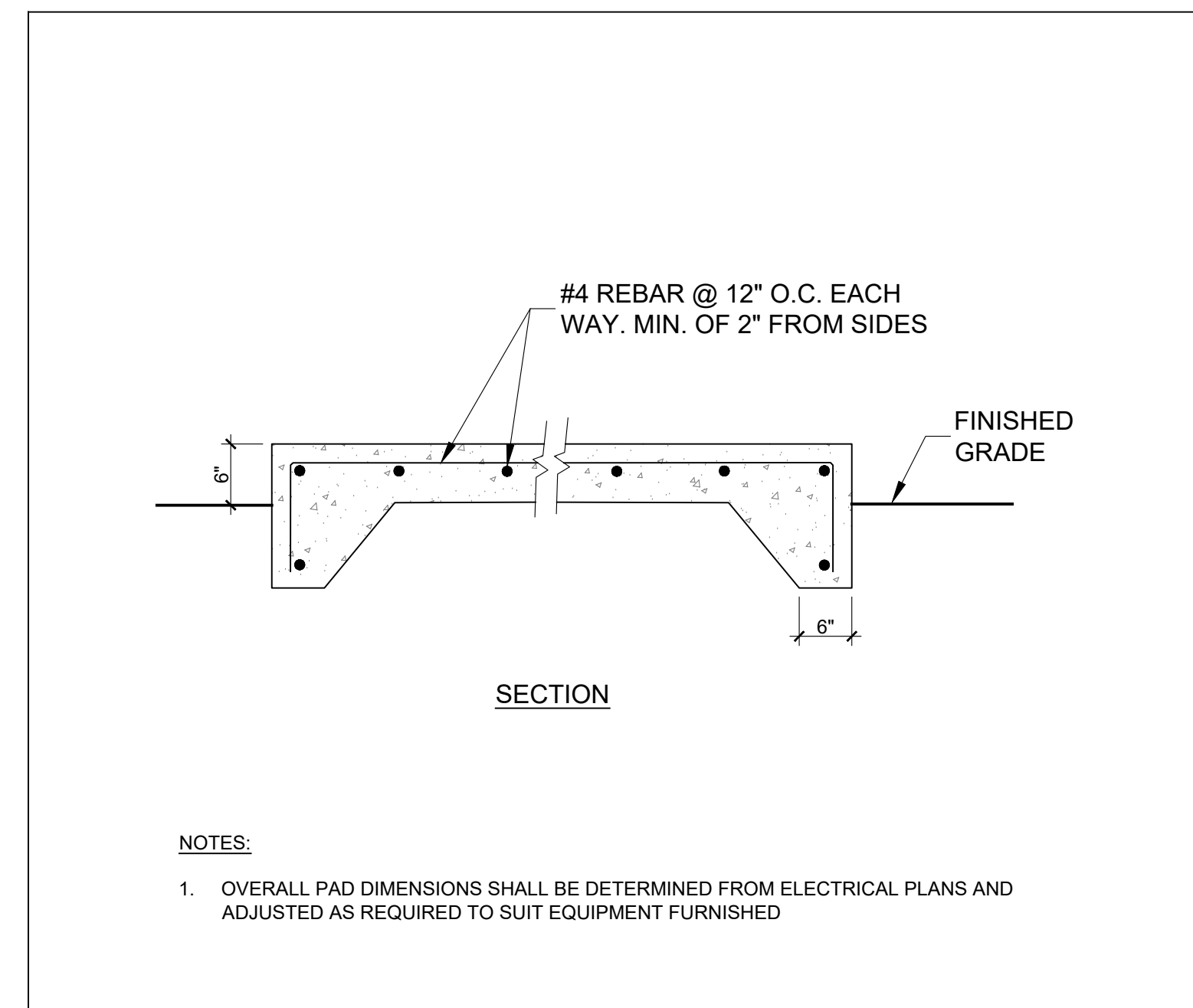
THE CITY OF LOS ANGELES OR ITS OFFICERS OR AGENTS SHALL NOT BE RESPONSIBLE FOR THE ACCURACY OR COMPLETENESS OF ELECTRONIC COPIES OF THIS PLAN SHEET.

- KEYNOTES**
- 3/4"C, 2#6 + 1#8 GND
 - RECONNECT FEEDER POWERING NEW PANELS "LAF3A", "LAF3B", "P2"
 - 1"C - 4#6,2#8 GND
 - INTERCEPT EXISTING GROUNDING SYSTEM AND INSTALL MINIMUM OF TWO (2) ADDITIONAL GROUND RODS AND CONNECT TO EXISTING GROUNDING USING 4/0 BARE COPPER. TEST GROUNDING SYSTEM TO CONFIRM MINIMUM OF 25 OHMS RESISTANCE. REPLACE ANY CORRODED OR DAMAGED GROUND CONNECTION.
 - INSTALL ON CONCRETE PAD NEW ENCLOSURE MFR SAGINAW ENVIROLINE SERIES ENCLOSURE, NEMA 3R/4/12/13, 90 X 72 X 36 IN (H X W X D), FREESTANDING, CARBON STEEL, ANSI 61 GRAY, POWDER COAT FINISH, 2-DOOR, 3-POINT KEYLOCKING/PADLOCKING COMBO HANDLE OR EQUAL. REFER TO DETAIL A9/E206
 - AFTER NEW PANELS INSTALLED RUN 3/4"C,2#12 + 1#12 GND FROM PANEL P2 TO PROVIDE POWER TO COMM. MODEM LOCATED NEAR NEW MUSCO CONTROL PANEL
 - USING STRUCTURAL MAT FOUNDATION AREA NEAR NEW RESTROOM : PULL NEW CONDUITS (2) 1/2"C-4#4/0 + 1#2 GND FROM UNDERGROUND TRENCH (24" DEEP PER NEC CODE). THE CONDUIT WILL COME UP AND TERMINATE IN THE PANEL "LAF3B" ON NEW CONCRETE PAD



5 RESTROOM POWER PLAN
E103

SCALE: 1/4" = 1'-0"



A5	ELECTRICAL EQUIPMENT PAD
N.T.S.	

A9	PANELS & ENCLOSURE ELEVATION
N.T.S.	

THIS PLAN WAS ELECTRONICALLY SIGNED AND STAMPED

BUREAU OF ENGINEERING

CLIENT: DEPARTMENT OF RECREATION & PARKS
GENERAL MANAGER: _____
SHEET TITLE: RESTROOM POWER PLAN
PROJECT: RIO DE LOS ANGELES STATE PARK FIELDS MAINTENANCE IMPROVEMENTS PROJECT
ADDRESS: 1900 WEST SAN FERNANDO ROAD, LOS ANGELES, CA, 90039

DEPARTMENT OF PUBLIC WORKS

NO.	REVISION DESCRIPTION	DATE	BY

INDEX NO. **RP-300125** CIP NO. **G1188**

ENGINEER	UFAO SHAH TARIQ, ELECTRICAL ENG. ASSOC. III	CITY ENGINEER	TED ALLEN, P.E., CITY ENGINEER
ARCHITECT	UFAO SHAH TARIQ, ELECTRICAL ENG. ASSOC. III	DESIGN GROUP	UFAO SHAH TARIQ, ELECTRICAL ENG. ASSOC. III
DRAWN BY	ERNESTO GONZALEZ, LANDSCAPE ARCH. ASSOCIATE II	DATE	7/13/2023
CHECKED BY	UFAO SHAH TARIQ, ELECTRICAL ENG. ASSOC. III		
APPROVED BY	DAVID COO, ELECTRICAL ENG. ASSOC. IV		

WORK ORDER NO. **E1908951**

FILE NO. **999**

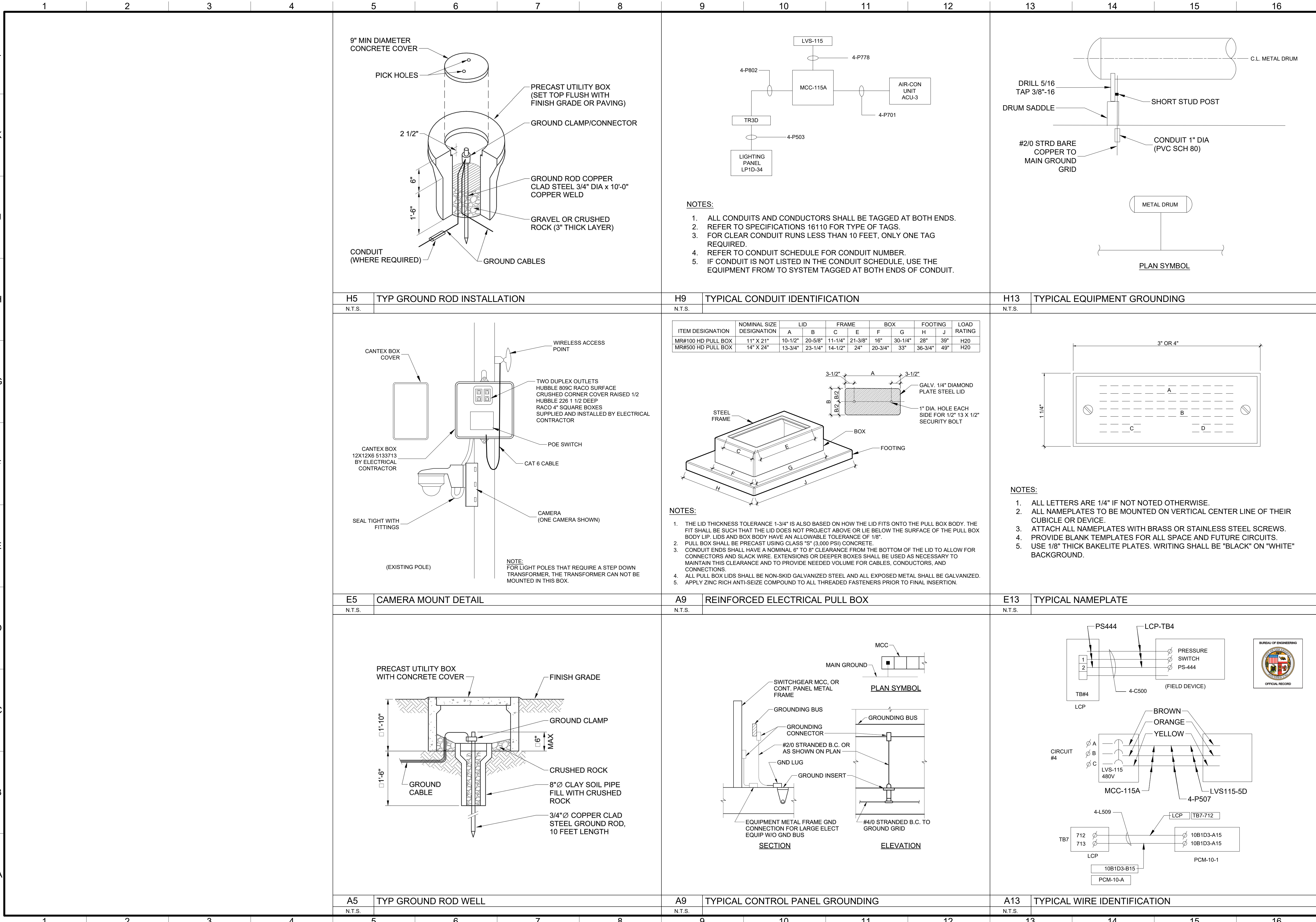
DRAWING NO. **E206**

SHEET **88** OF 100 SHEETS

BUREAU OF ENGINEERING
OFFICIAL RECORD

REVISION DATES (DESIGN STAGE ONLY)

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



THIS PLAN WAS ELECTRONICALLY SIGNED AND STAMPED

BUREAU OF ENGINEERING

CLIENT: DEPARTMENT OF RECREATION & PARKS
GENERAL MANAGER: [Blank]
SHEET TITLE: TYPICAL ELECTRICAL DETAILS, SHEET 1
PROJECT: RIO DE LOS ANGELES STATE PARK FIELDS MAINTENANCE IMPROVEMENTS PROJECT
ADDRESS: 1900 WEST SAN FERNANDO ROAD, LOS ANGELES, CA, 90039

CITY OF LOS ANGELES DEPARTMENT OF PUBLIC WORKS

NO. [Blank] DATE [Blank] BY [Blank]
REVISION DESCRIPTION [Blank]

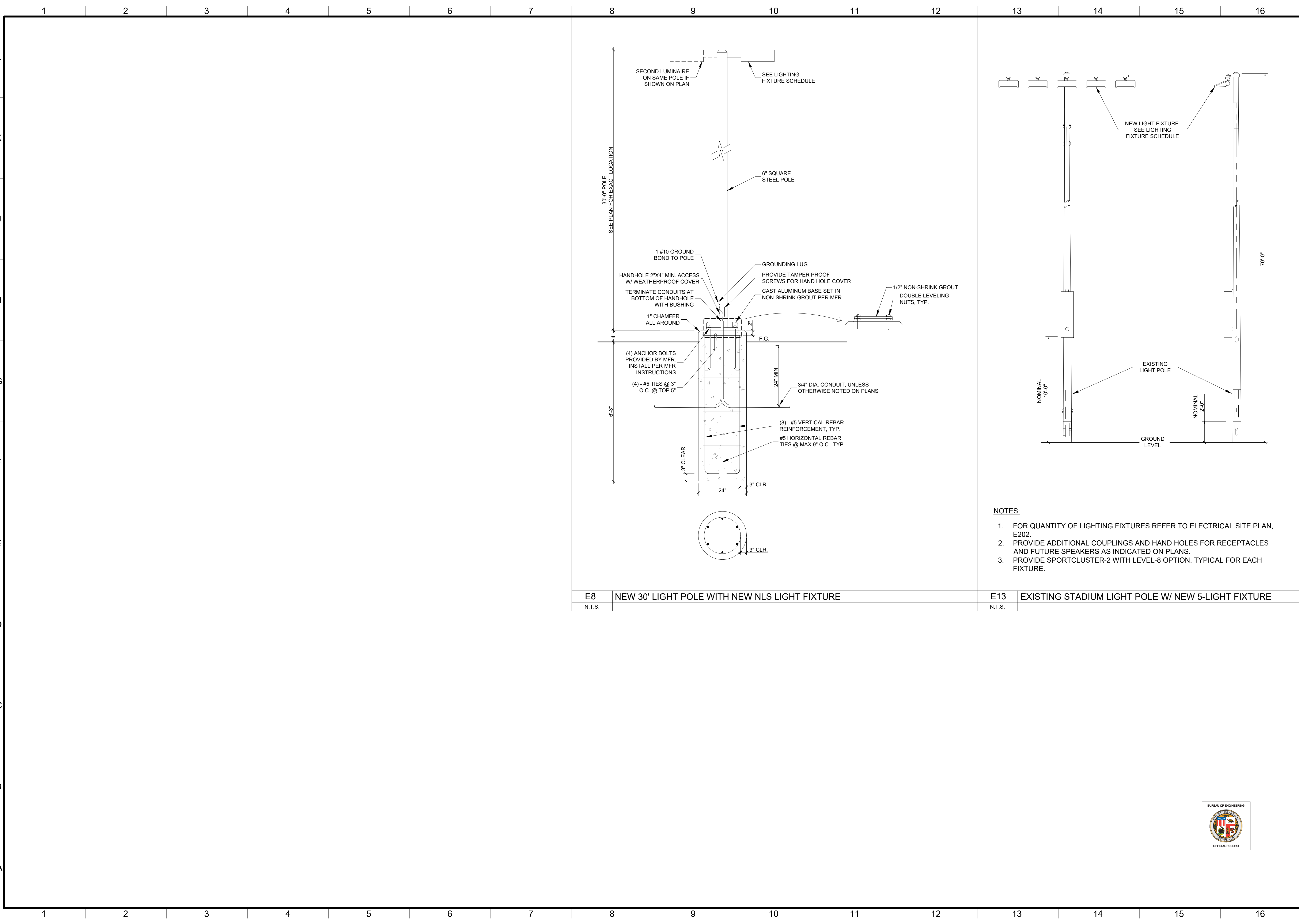
CITY ENGINEER: [Blank] DATE: [Blank]
DESIGN GROUP: [Blank]
ENGINEER: UFAQ SHAH TARIQ, ELECTRICAL ENG. ASSOC. III
ARCHITECT: [Blank]
DESIGNED BY: UFAQ SHAH TARIQ, ELECTRICAL ENG. ASSOC. III
DRAWN BY: ERNESTO GONZALEZ, LANDSCAPE ARCH. ASSOCIATE II | 7/06/2023
CHECKED BY: UFAQ SHAH TARIQ, ELECTRICAL ENG. ASSOC. III
APPROVED BY: DAVID COO, ELECTRICAL ENG. ASSOC. IV

INDEX NO. **RP-300125**
CIP NO. **G1188**

WORK ORDER NO. **E1908951**
FILE NO. **999**
DRAWING NO. **E301**
SHEET **90** OF **100** SHEETS

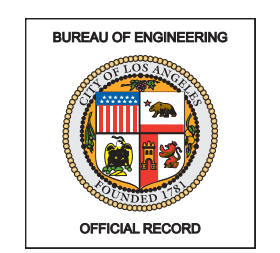
REVISION DATES (DESIGN STAGE ONLY)

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



- NOTES:**
- FOR QUANTITY OF LIGHTING FIXTURES REFER TO ELECTRICAL SITE PLAN, E202.
 - PROVIDE ADDITIONAL COUPLINGS AND HAND HOLES FOR RECEPTACLES AND FUTURE SPEAKERS AS INDICATED ON PLANS.
 - PROVIDE SPORTCLUSTER-2 WITH LEVEL-8 OPTION. TYPICAL FOR EACH FIXTURE.

E8	NEW 30' LIGHT POLE WITH NEW NLS LIGHT FIXTURE	E13	EXISTING STADIUM LIGHT POLE W/ NEW 5-LIGHT FIXTURE
N.T.S.		N.T.S.	



ENGINEERING
CITY OF LOS ANGELES

BUREAU OF ENGINEERING

CLIENT: DEPARTMENT OF RECREATION & PARKS
GENERAL MANAGER:

DEPARTMENT OF PUBLIC WORKS

PROJECT: RIO DE LOS ANGELES STATE PARK FIELDS MAINTENANCE IMPROVEMENTS PROJECT
ADDRESS: 1900 WEST SAN FERNANDO ROAD, LOS ANGELES, CA. 90039

SHEET TITLE: TYPICAL ELECTRICAL DETAILS, SHEET 2

INDEX NO. **RP-300125**

CIP NO. **G1188**

ENGINEER: UFAQ SHAH T. P. NO. E27390
ARCHITECT: UFAQ SHAH T. P. NO. E27390
DESIGNED BY: UFAQ SHAH T. P. NO. E27390
DRAWN BY: ERNESTO GONZALEZ, LANDSCAPE ARCH. ASSOCIATE II | 7/13/2023
CHECKED BY: UFAQ SHAH T. P. NO. E27390
APPROVED BY: DAVID COO, ELECTRICAL ENG. ASSOC. IV

WORK ORDER NO. **E1908951**

FILE NO. **999**

DRAWING NO. **E302**

SHEET **91** OF 100 SHEETS

REVISION DATES (DESIGN STAGE ONLY) A B C D E F G H J K L

STATE OF CALIFORNIA CALIFORNIA ENERGY COMMISSION CERTIFICATE OF COMPLIANCE NRCC-LTO-E Project Name: RIO DE LOS ANGELES STATE PARK OUTDOOR IMPROVEMENTS Report Page: (Page 7 of 8) Date Prepared: 2023-04-25T14:08:08-04:00

M. LIGHTING ALLOWANCE: PER SPECIFIC AREA This section does not apply to this project.

N. EXISTING CONDITIONS POWER ALLOWANCE (alterations only) This section does not apply to this project.

O. DECLARATION OF REQUIRED CERTIFICATES OF INSTALLATION Selections have been made based on information provided in this document. If any selection has been changed by permit applicant, an explanation should be included in Table E. Additional Remarks. These documents must be provided to the building inspector during construction and can be found online.

P. DECLARATION OF REQUIRED CERTIFICATES OF ACCEPTANCE Selections have been made based on information provided in this document. If any selection has been changed by permit applicant, an explanation should be included in Table E. Additional Remarks. These documents must be provided to the building inspector during construction and must be completed through an Acceptance Test Technician Certification Provider (ATTCP). For more information visit: http://www.energy.ca.gov/title24/attcp/providers.html

Registration Number: CA Building Energy Efficiency Standards - 2022 Nonresidential Compliance Report Version: 2022.0.000 Schema Version: rev 20220101 Generated Date/Time: 2023-04-25 11:08:09 Documentation Software: Energy Code Ace Compliance ID: 89432-0423-0008 Report Generated: 2023-04-25 11:08:09

STATE OF CALIFORNIA CALIFORNIA ENERGY COMMISSION CERTIFICATE OF COMPLIANCE NRCC-LTO-E Project Name: RIO DE LOS ANGELES STATE PARK OUTDOOR IMPROVEMENTS Report Page: (Page 8 of 8) Date Prepared: 2023-04-25T14:08:08-04:00

DOCUMENTATION AUTHOR'S DECLARATION STATEMENT I certify that this Certificate of Compliance documentation is accurate and complete.

Documentation Author Name: Ufaq Shah Tariq Signature Date: 5/1/2023 City of Los Angeles Address: 12000 VISTA DEL MAR, CA 90293 City/State/Zip: PLAYA DEL REY, CA 90293

RESPONSIBLE PERSON'S DECLARATION STATEMENT I certify the following under penalty of perjury, under the laws of the State of California: 1. The information provided on this Certificate of Compliance is true and correct. 2. I am eligible under Division 3 of the Business and Professions Code to accept responsibility for the building design or system design identified on this Certificate of Compliance (responsible designer).

Responsible Designer Name: Ufaq Shah Tariq Signature Date: 5/1/2023 City of Los Angeles Address: 12000 VISTA DEL MAR, CA 90293 City/State/Zip: PLAYA DEL REY, CA 90293

Registration Number: CA Building Energy Efficiency Standards - 2022 Nonresidential Compliance Report Version: 2022.0.000 Schema Version: rev 20220101 Generated Date/Time: 2023-04-25 11:08:09 Documentation Software: Energy Code Ace Compliance ID: 89432-0423-0008 Report Generated: 2023-04-25 11:08:09

STATE OF CALIFORNIA CALIFORNIA ENERGY COMMISSION CERTIFICATE OF COMPLIANCE NRCC-LTO-E Project Name: RIO DE LOS ANGELES STATE PARK OUTDOOR IMPROVEMENTS Report Page: (Page 4 of 8) Date Prepared: 2023-04-25T14:08:08-04:00

F. OUTDOOR LIGHTING FIXTURE SCHEDULE Table with columns for fixture type (01-10) and compliance status (Compliant/Non-Compliant).

* NOTES: Selections with a * require a note in the space below explaining how compliance is achieved. EX: Luminaire is lighting a statue; EXCEPTION 2 to 130.2(b)

* FOOTNOTES: Authority Having Jurisdiction may ask for luminaire cut sheets to confirm wattage used for compliance per 130.0(c) / 160.5(b) For linear luminaires, wattage should be indicated as W/lf instead of Watts/luminaire. Total linear feet should be indicated in column 05 instead of number of luminaires.

G. SHIELDING REQUIREMENTS (BUG) This section does not apply to this project.

Registration Number: CA Building Energy Efficiency Standards - 2022 Nonresidential Compliance Report Version: 2022.0.000 Schema Version: rev 20220101 Generated Date/Time: 2023-04-25 11:08:09 Documentation Software: Energy Code Ace Compliance ID: 89432-0423-0008 Report Generated: 2023-04-25 11:08:09

STATE OF CALIFORNIA CALIFORNIA ENERGY COMMISSION CERTIFICATE OF COMPLIANCE NRCC-LTO-E Project Name: RIO DE LOS ANGELES STATE PARK OUTDOOR IMPROVEMENTS Report Page: (Page 5 of 8) Date Prepared: 2023-04-25T14:08:08-04:00

H. OUTDOOR LIGHTING CONTROLS Table with columns for control type (01-05) and compliance status (Pass/Fail).

* FOOTNOTE: Text has been abbreviated, please refer to Table 160.5-4 to confirm compliance with the specific light source technologies listed. * Authority having jurisdiction may ask for cut sheets or other documentation to confirm compliance of light source.

Registration Number: CA Building Energy Efficiency Standards - 2022 Nonresidential Compliance Report Version: 2022.0.000 Schema Version: rev 20220101 Generated Date/Time: 2023-04-25 11:08:09 Documentation Software: Energy Code Ace Compliance ID: 89432-0423-0008 Report Generated: 2023-04-25 11:08:09

STATE OF CALIFORNIA CALIFORNIA ENERGY COMMISSION CERTIFICATE OF COMPLIANCE NRCC-LTO-E Project Name: RIO DE LOS ANGELES STATE PARK OUTDOOR IMPROVEMENTS Report Page: (Page 6 of 8) Date Prepared: 2023-04-25T14:08:08-04:00

I. LIGHTING POWER ALLOWANCE (per 140.7 / 170.2(e)) Table with columns for area description, wattage allowance, and compliance status.

J. LIGHTING ALLOWANCE: PER APPLICATION This section does not apply to this project.

K. LIGHTING ALLOWANCE: SALES FRONTAGE This section does not apply to this project.

L. LIGHTING ALLOWANCE: ORNAMENTAL This section does not apply to this project.

Registration Number: CA Building Energy Efficiency Standards - 2022 Nonresidential Compliance Report Version: 2022.0.000 Schema Version: rev 20220101 Generated Date/Time: 2023-04-25 11:08:09 Documentation Software: Energy Code Ace Compliance ID: 89432-0423-0008 Report Generated: 2023-04-25 11:08:09

STATE OF CALIFORNIA CALIFORNIA ENERGY COMMISSION CERTIFICATE OF COMPLIANCE NRCC-LTO-E Project Name: RIO DE LOS ANGELES STATE PARK OUTDOOR IMPROVEMENTS Report Page: (Page 1 of 8) Date Prepared: 2023-04-25T14:08:08-04:00

A. GENERAL INFORMATION Table with columns for project location, climate zone, and occupancy types.

B. PROJECT SCOPE Table with columns for project scope, lighting system, and compliance results.

Registration Number: CA Building Energy Efficiency Standards - 2022 Nonresidential Compliance Report Version: 2022.0.000 Schema Version: rev 20220101 Generated Date/Time: 2023-04-25 11:08:09 Documentation Software: Energy Code Ace Compliance ID: 89432-0423-0008 Report Generated: 2023-04-25 11:08:09

STATE OF CALIFORNIA CALIFORNIA ENERGY COMMISSION CERTIFICATE OF COMPLIANCE NRCC-LTO-E Project Name: RIO DE LOS ANGELES STATE PARK OUTDOOR IMPROVEMENTS Report Page: (Page 2 of 8) Date Prepared: 2023-04-25T14:08:08-04:00

C. COMPLIANCE RESULTS Table with columns for calculation of total allowed lighting power and compliance results.

D. EXCEPTIONAL CONDITIONS This table is auto-filled with uneditable comments because of selections made or data entered in tables throughout the form.

E. ADDITIONAL REMARKS This table includes remarks made by the permit applicant to the Authority Having Jurisdiction.

Registration Number: CA Building Energy Efficiency Standards - 2022 Nonresidential Compliance Report Version: 2022.0.000 Schema Version: rev 20220101 Generated Date/Time: 2023-04-25 11:08:09 Documentation Software: Energy Code Ace Compliance ID: 89432-0423-0008 Report Generated: 2023-04-25 11:08:09

STATE OF CALIFORNIA CALIFORNIA ENERGY COMMISSION CERTIFICATE OF COMPLIANCE NRCC-LTO-E Project Name: RIO DE LOS ANGELES STATE PARK OUTDOOR IMPROVEMENTS Report Page: (Page 3 of 8) Date Prepared: 2023-04-25T14:08:08-04:00

F. OUTDOOR LIGHTING FIXTURE SCHEDULE Table with columns for fixture type (01-10) and compliance status (Compliant/Non-Compliant).

Table with columns for fixture name, description, wattage, and compliance status.

Registration Number: CA Building Energy Efficiency Standards - 2022 Nonresidential Compliance Report Version: 2022.0.000 Schema Version: rev 20220101 Generated Date/Time: 2023-04-25 11:08:09 Documentation Software: Energy Code Ace Compliance ID: 89432-0423-0008 Report Generated: 2023-04-25 11:08:09

CITY OF LOS ANGELES DEPARTMENT OF PUBLIC WORKS BUREAU OF ENGINEERING. Includes project title, sheet number (RP-300125), and drawing number (E401).

GENERAL NOTES:

APPLICABLE BUILDING CODE

- 1. All construction and workmanship shall conform to the following codes.
2. 2020 Los Angeles City Building Code (LABC).
3. This pole and foundation standard has been designed for lateral loads on the completed structure as follows:
4. Wind - ASCE 7-16; Vult = 95 mph (Exposure C); Vasd = 74 mph (Exposure C); Risk Category = II.
5. Maximum total effective area (EPA) for luminaires per pole class (Fixtures Only):
6. Seismic: Ss = 2.103, S1 = 0.753, Sps = 1.683, Sd1 = 0.853, Risk Category = II; I = 1.0; Site Class = D; R = 1.5; Seismic Category = D; Cs = 0.402 (70A); 0.426 (70C). Strength Level typical;
7. Maximum weight per luminaire: LED1200 = 45 pounds; LED900 = 40 pounds.

GENERAL CONSTRUCTION

- 8. These notes shall be used in conjunction with the plans and any discrepancies shall be brought to the attention of the Engineer.
9. Contractor must check all dimensions, clearances and job conditions before starting work. Engineer shall be notified immediately of any discrepancies or possible deficiencies.
10. The drawings and specifications represent the finished structure. All bracing, temporary supports, shoring, etc., is the sole responsibility of the Contractor.
11. Design, material, equipment, and products other than those described below or indicated on the drawings may be considered for use, provided prior approval is obtained from the City of Los Angeles.
12. Installation shall comply with all applicable L.A. city zoning ordinances and its provisions.
13. All changes in approved plans shall be made by addenda or change orders approved by City of Los Angeles.
14. All tests and inspections shall be performed by an independent lab approved by City of Los Angeles.
15. Plans shall be accompanied by a fully dimensioned plot plan showing all buildings and proposed pole locations.

LIGHT POLE FOUNDATIONS

(FOUNDATIONS MUST COMPLY WITH PRE-INSPECTION REPORT AS APPLICABLE)

- 16. Reference Geotechnical Report prepared by City of Los Angeles Geotechnical Engineering Division (GED). Dated September 20, 2022; W.O. #E1908950, GED File # 22-066.
17. Allowable vertical bearing capacity: 250 PSF (Skin Friction).
18. Allowable lateral soil bearing pressure: N/A. See report for LPILE parameters to use to analyze foundations.
19. Allowable design soil capacities must be verified by Geotechnical Engineer.
20. If soft or questionable soil conditions are encountered during excavations, contact the Department for instructions before proceeding with the work.
21. Soil formations that will require special design considerations or excavation procedures may exist. Pole foundations will need to be analyzed according to the soil conditions that exist.
22. The Contractor must familiarize himself with the complete soil investigation (if any) and borings and contact the Geotechnical Engineer (as necessary) to understand the soil conditions and the possibility of ground water pumping and excavation stabilization of bracing during then pier base installation and placement of concrete backfill.
23. All precast bases and concrete backfill must bear on and against firm undisturbed soil, as determined by a Geotechnical Engineer.
24. All excavations must be free of debris and loose soil prior to foundation installation, and placement of concrete backfill. Casing may be required if caving occurs. In such case, approval by a Geotechnical Engineer is required.
25. All excavations must be dry or concrete shall be placed by the tremie method in accordance with ACI standard 336. Concrete placed by the tremie method shall have a minimum ultimate strength of 1,000 psi greater than required under "concrete backfill" below, and a maximum slump of 8 inches.
26. Excavations shall be covered, fenced securely or provided with equivalent protection for hazards.

CONCRETE BACKFILL

- 27. Concrete backfill shall attain a minimum compressive strength of 4,000 psi at 28 days. Concrete shall attain a minimum compressive strength of 3,000 psi prior to steel pole installation. see statement of special inspections required.
28. Concrete: F'c = 4,000 psi., continuous inspection is not required.
29. Slump shall not exceed 5 inches. Max w/c = 0.50.
30. Use type II-Portland Cement or as recommended by the Geotechnical Engineer.
31. Concrete that will be exposed to sulfate-containing solutions or soils shall comply with the maximum water-cementitious ratios and minimum compressive strengths specified in ACI 318, Section 4.3.
32. Portland Cement ASTM C-150-07.
33. Aggregate ASTM C-33, use 1" maximum aggregate size. 3/8" max agg. size not permitted.

CONCRETE BACKFILL

- 34. Place concrete immediately after completion of excavation and inspection by the Geotechnical Engineer and the L.A. City approved Inspector. No excavations shall be left unprotected or open overnight.
35. Concrete shall be placed in one continuous operation (no construction joint) with special equipment to prevent concrete from striking the sides of the excavation. Maximum freefall shall not exceed 5 ft.
36. Vibrate concrete full length.
37. All concrete reinforcing steel shall conform to ASTM A615, Grade 60

STEEL POLE

- 38. Steel pole sections conform to the 2020 LABC Chapter 22, and AISC 360-16.
39. All steel conforms ASTM specifications, as referenced on these drawings.
40. Minimum elongation in 2 inch gauge length = 18%, and the minimum elongation in 8 inch gauge length = 20%.
41. The fabricator shall provide mill tests or test data by a Los Angeles city approved testing agency showing conformance of the foregoing:

LONGITUDINAL WELDS:

All longitudinal seam welding shall be done prior to cold welding. Weld type: Automatic high frequency resistance, automatic submerged arc or hybrid laser beam/gas metal arc welding procedure.

Joint: Butt
Penetration: 60% except 100% at female end of slip joint, detail H/MD1.
Test: 60% pen. - Visual per AWS D1.1 article 8.15
100% pen. - Visual per AWS D1.1 article 8.15
Certified data on seam welding from shaft manufacturer shall include:
1. Inspection frequency and procedures; I.E.; Visual, US, Radiographic, etc.
2. Seam welding procedures; I.E.; percent penetration and method ERW, SAW, etc.
3. Method and length of 100 percent penetration weld at female end of slip joint.

Welding operator: AWS certified welding operator (CWO) and shall be done by City of L.A. B&S licensed fabricator.
Welding inspector: AWS certified welding inspector (CWI) and approved by City of L.A. B&S deputy inspector in welding.

CIRCUMFERENTIAL WELDS

Circumferential welds are not allowed. Shafts shall be fabricated from continuous rolled plates or coil.

44. All weldment conforms with AWS D1.1 specification for G.M.A.W. fillet utilizing E70S-X filler metal or S.A.W. fillet utilizing F7XX-EXX or F8XX-EXX filler metal. G.M.A.W. procedure conforms to AWS A5.18. S.A.W. procedure conforms to AWS 5.23

MANUFACTURERS SHAFT MARKINGS:

The manufacturer shall inscribe a common I.D. number on each shaft comprising a particular factory pole assembly. (See also manufacturers gauge marks below).

FIELD ASSEMBLY AND MANUFACTURERS GAUGE MARKS

The pole manufacturer shall provide and the contractor shall follow the recommended pole assembly instruction general, the pole shall be assembled on the ground and the entire structure lifted into position on the previously installed foundation. Shafts shall be connected by slip splices only, welded splices shall not be used. The manufacturer shall shop assemble the entire pole and inscribe gauge marks across each slip joint to guide the field assembly. The contractor shall assemble the pole in the presence of the Special Inspector who shall verify that each slip splice attains a minimum overlap of 1.5 x larger shaft diameter.

GALVANIZING:

Pole assembly, all hardware and accessories (except for non-ferrous items) shall be hot dip galvanized per ASTM A123. All fabrication shall be done before galvanizing. Minimum weight of galvanizing shall be 2.00 oz/sq. ft. Shafts shall be galvanized by single dipping only. Double dipping is not allowed.

SUBMITTAL:

Manufacturing shall furnish the department with a galvanizing weight report showing conformance foregoing by the the thickness gauge. Method of measurement per ASTM E376.
48. All miscellaneous structural steel items conform to the Steel Construction Manual, 14th Edition, American Institute of Steel Construction.

PRECAST BASE

- 49. Precast pole base conforms to 2020 LABC, Chapter 19 and to Building Code Requirements for Reinforced Concrete, ACI 318-14.

TESTING AND INSPECTION

- 50. Testing and inspections in accordance with 2020 LABC.
51. Prior to pouring of concrete, the Geotechnical Engineer shall inspect and approve the footing excavations.
52. All compacted fill shall be placed under the supervision and approval of the Geotechnical Engineer.

STATEMENT OF SPECIAL INSPECTIONS* table with columns: ITEM, CONTINUOUS/PERIODIC, SCOPE. Includes items for pier foundations, concrete mix design, concrete placement, sampling and testing of concrete, cretex precast bases, and structural steel.

* The Special Inspector shall be a qualified person who shall demonstrate competence, to the satisfaction of the Building Official, for inspection of the particular type of construction or operation requiring special inspection.
**Special inspections shall not be required when the work is done on the premises of a fabricator registered and approved by the City to perform such work without special inspection.

SUBMITTALS

- 53. Prior to any pole fabrication, the contractor shall submit and obtain the department's approval of:
1. All pole shaft certifications.
2. All remaining certifications prior to shipping any poles to job site.
The contractor shall furnish written certifications showing compliance with ASTM and the foregoing specification.

CROSSARMS: ASTM A500, GR.B Min Fy = 46 KSI
CAP: ASTM A48 class 30, zinc die cast (alloy no. 3).

FIXTURE MOUNTING SECTIONS: ASTM A513, Fy = 38 KSI

POLE SHAFTS: The manufacturer shall furnish certified mill reports and mechanical test results showing compliance with ASTM A595A or ASTM A572, Gr 55 or Gr 65. Each pole shaft and its mechanical and chemical data shall be traceable to its steel mill plate heat.
PRESTRESS STRANDS: ASTM A416, GR 270 (Low relaxation).

MISCELLANEOUS

- 54. Contractors responsible for the construction of a wind or seismic force resisting system/component listed in the Statement of Special Inspection shall submit a written statement of responsibility to the LADBS Inspectors and the owner prior to the commencement of work on such system or component per Sec 1704.4
55. Shop welds must be performed in a LADBS licensed fabricator shop.
56. A copy of the Los Angeles Research Report and/or conditions of listing shall be made available at the job site.
57. Continuous Special Inspection by a registered deputy inspector is required for concrete strength f=c > 2500 psi.

INDEX OF SHEETS table listing sheet numbers (MT1, MT2, MS1, MS2, MS3, MD1, MD2, MD3) and their corresponding titles (GENERAL NOTES, SITE PLAN, FOUNDATION DETAIL, etc.).

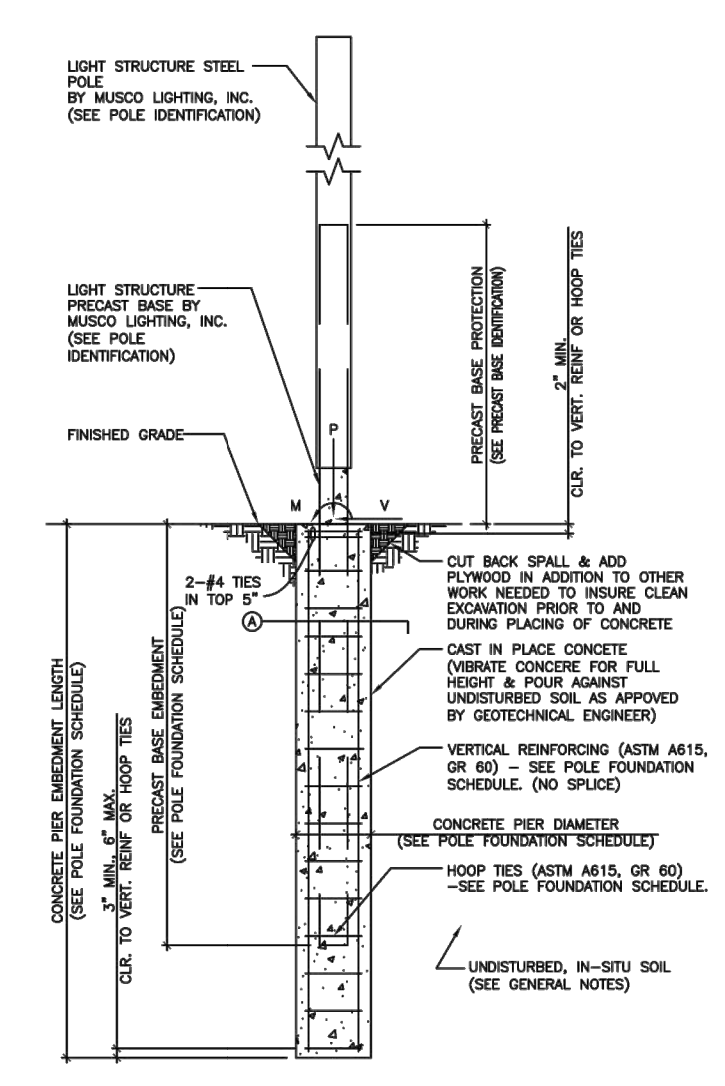
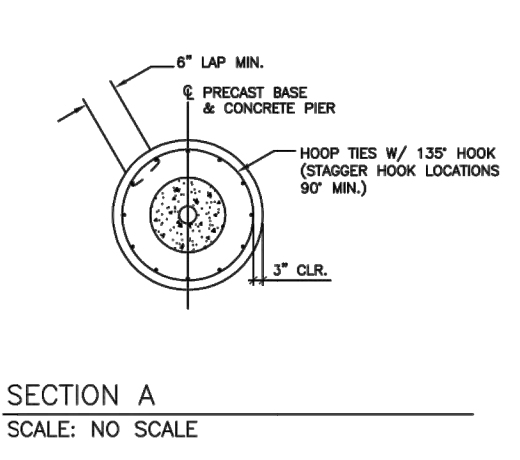
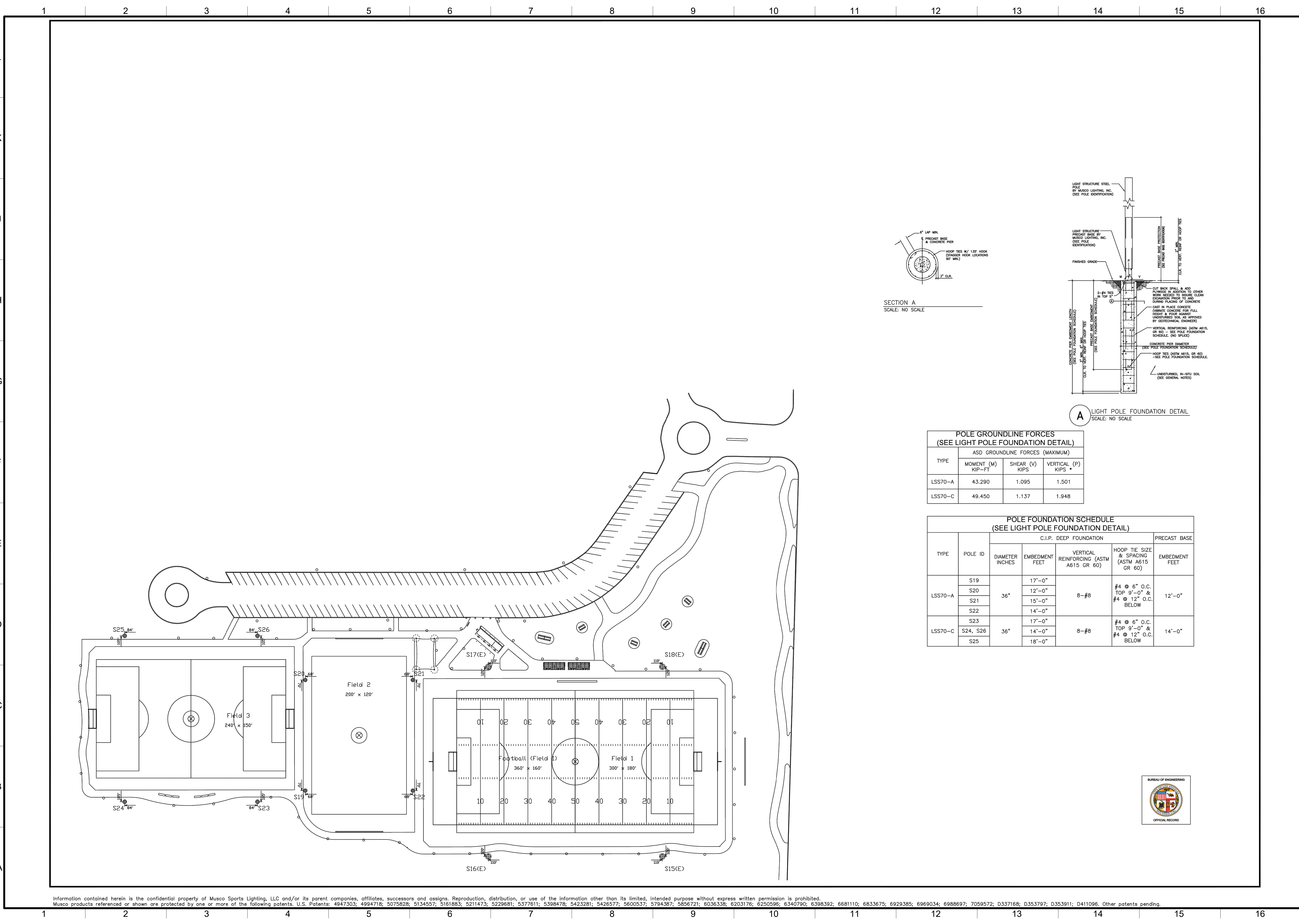


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Vertical sidebar containing: ENGINEERING CITY OF LOS ANGELES logo, BUREAU OF ENGINEERING logo, DEPARTMENT OF PUBLIC WORKS logo, CITY OF LOS ANGELES logo, CLIENT: DEPARTMENT OF RECREATION & PARKS, GENERAL MANAGER, SHEET TITLE: GENERAL NOTES, PROJECT: RIO DE LOS ANGELES STATE PARK FIELDS MAINTENANCE IMPROVEMENTS PROJECT, ADDRESS: 1900 WEST SAN FERNANDO ROAD, LOS ANGELES, CA. 90039, INDEX NO. RP-300125, CIP NO. G1188, CITY ENGINEER: TED ALLEN, P.E., CITY ENGINEER DESIGN GROUP, ARCHITECT, DESIGNED BY, DRAWN BY, CHECKED BY, APPROVED BY, WORK ORDER NO. E1908951, FILE NO. 999, DRAWING NO. MT1, SHEET 93 OF 100 SHEETS.

REVISION DATES (DESIGN STAGE ONLY)

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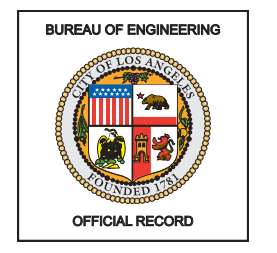


POLE GROUNDLINE FORCES
(SEE LIGHT POLE FOUNDATION DETAIL)

TYPE	ASD GROUNDLINE FORCES (MAXIMUM)		
	MOMENT (M) KIP-FT	SHEAR (V) KIPS	VERTICAL (P) KIPS
LSS70-A	43.290	1.095	1.501
LSS70-C	49.450	1.137	1.948

POLE FOUNDATION SCHEDULE
(SEE LIGHT POLE FOUNDATION DETAIL)

TYPE	POLE ID	C.I.P. DEEP FOUNDATION			EMBEDMENT FEET
		DIAMETER INCHES	EMBEDMENT FEET	VERTICAL REINFORCING (ASTM A615 GR 60)	
LSS70-A	S19	36"	17'-0"	8-#8	12'-0"
	S20		12'-0"		
	S21		15'-0"		
	S22		14'-0"		
LSS70-C	S23	36"	17'-0"	8-#8	14'-0"
	S24, S26		14'-0"		
	S25		18'-0"		



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

CLIENT: DEPARTMENT OF RECREATION & PARKS
GENERAL MANAGER: _____

SHEET TITLE: SITE PLAN, FOUNDATION DETAIL
PROJECT: RIO DE LOS ANGELES STATE PARK FIELDS MAINTENANCE IMPROVEMENTS PROJECT
ADDRESS: 1900 WEST SAN FERNANDO ROAD, LOS ANGELES, CA, 90039

INDEX NO. **RP-300125** CIP NO. **G1188**

NO. _____ DATE _____
REVISION DESCRIPTION _____

ENGINEER: TED ALLEN, P.E., CITY ENGINEER
ARCHITECT: _____
DESIGNED BY: _____
DRAWN BY: CMH
CHECKED BY: _____
APPROVED BY: _____

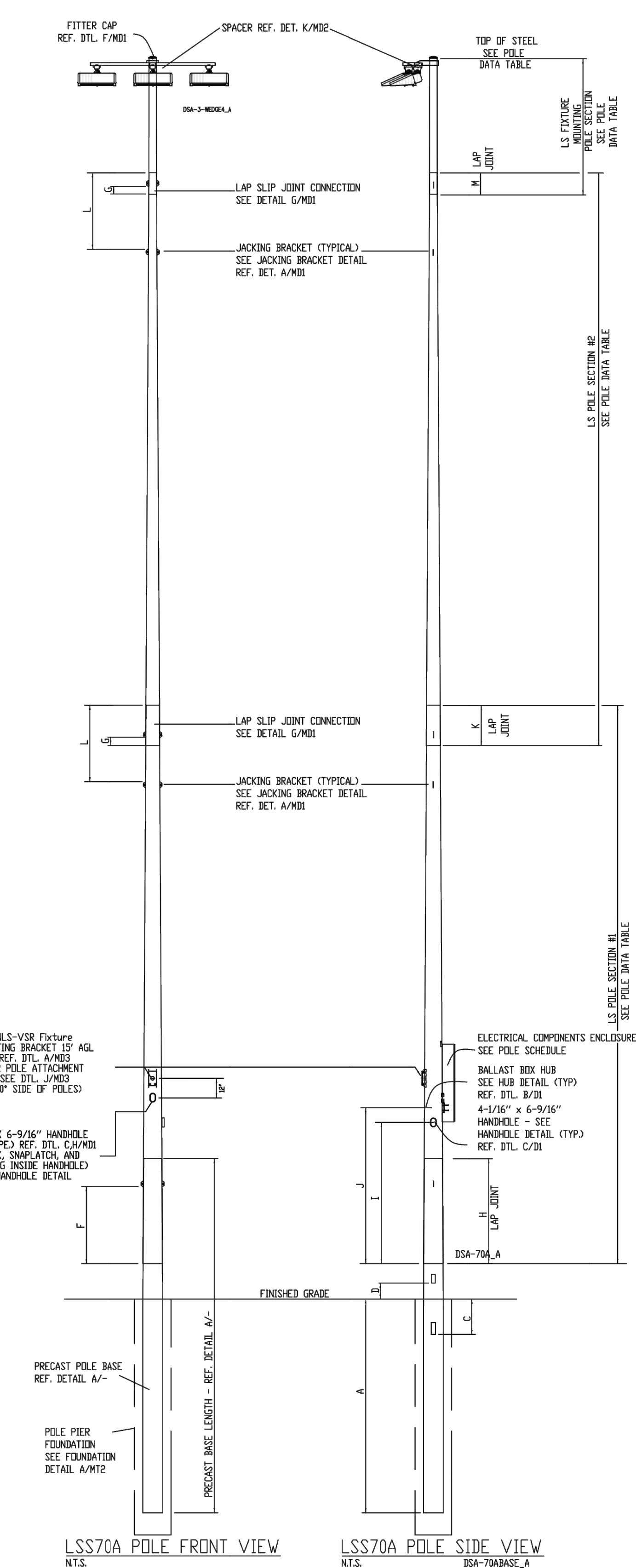
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FILE NO. **999**
DRAWING NO. **MT2**

SHEET **94** OF 100 SHEETS

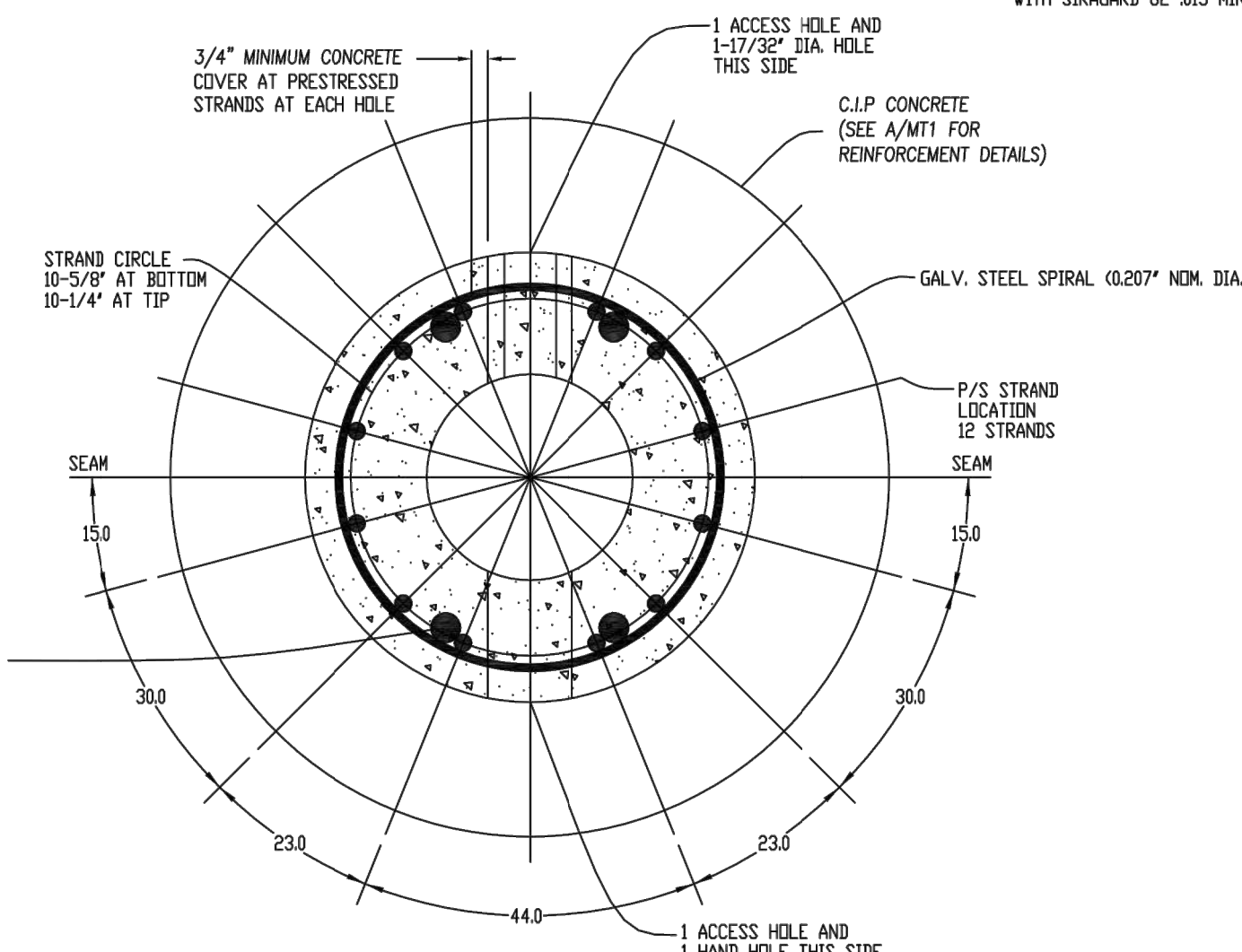
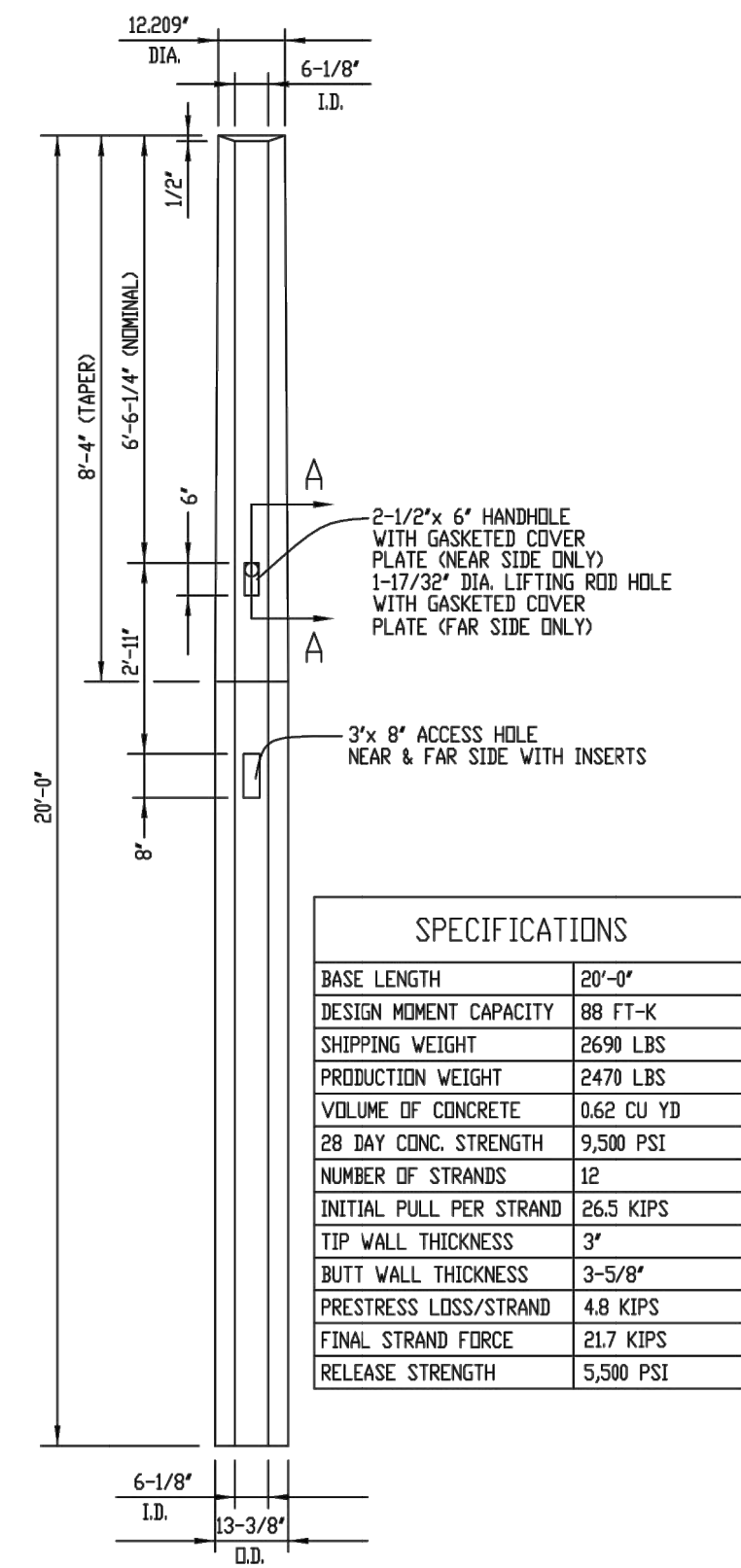
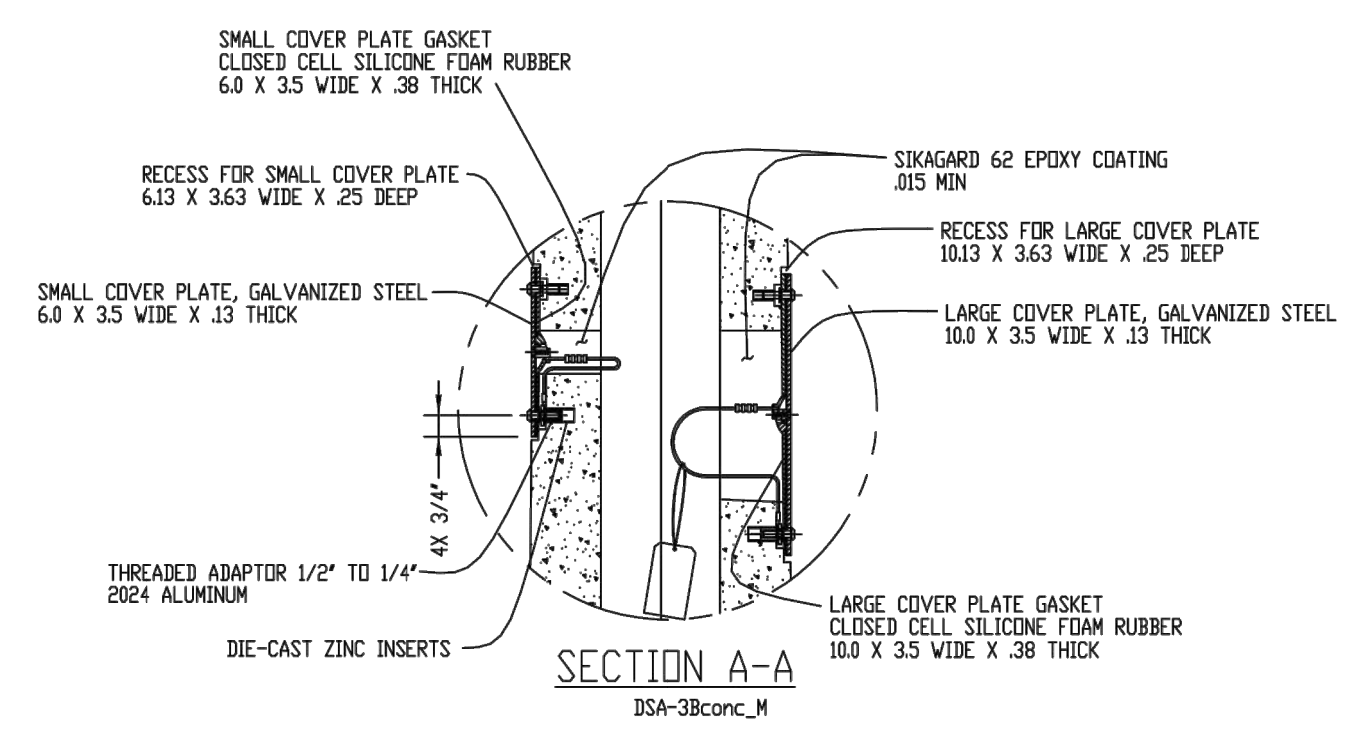
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NOTATION	DIMENSION
A	12'-0"
C	2'-0" NDM.
D	1'-0" NDM.
F	4'-4" NDM.
G	1'-6"
H	5'-11 3/8" NDM. 4'-8" MIN.
I	7'-7 1/2" NDM.
J	8'-9 1/2" NDM.
K	2'-3" NDM. 1'-1 3/4" MIN.
L	4'-7" NDM.
M	1'-4 1/2" NDM. 7 3/4" MIN.



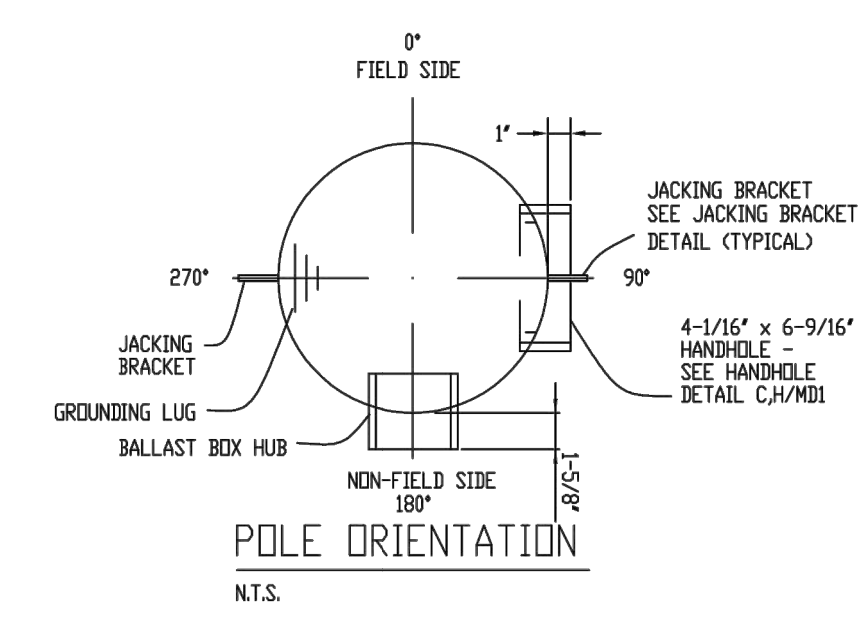
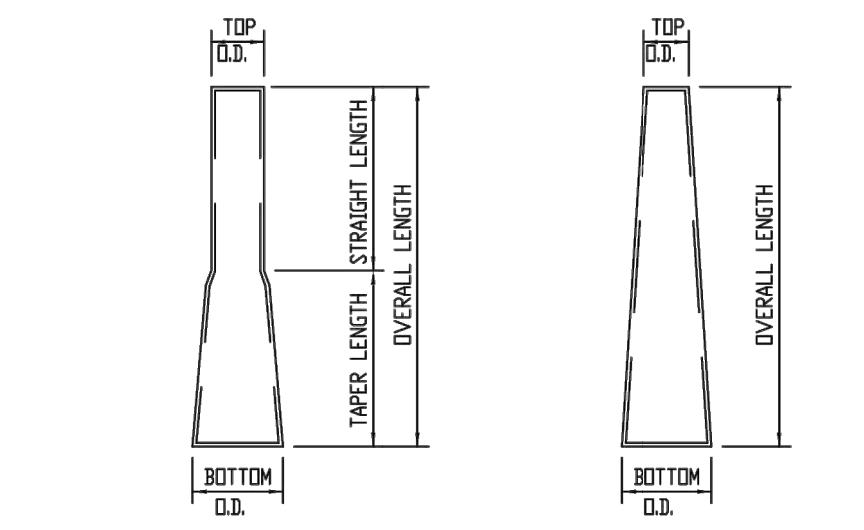
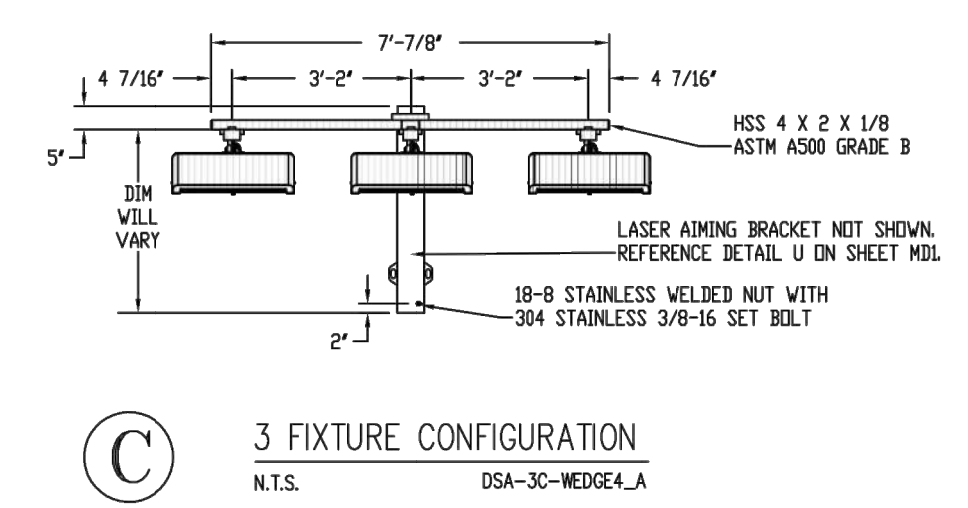
(A) TYPE 3B PRECAST BASE DETAIL
N.T.S. DSA-3Bconc_M

POLE SCHEDULE						
SITE LOCATION	POLE MARK	REFERENCE LOCATION	POLE TYPE	FIXTURE CONFIGURATION	TOTAL EPA ¹	BALLAST BOX REQUIREMENTS
SEE SITE PLAN (BY OTHERS)	S19-S22	SEE POLE ORIENTATION PLAN	LSS70A	3 - SEE DETAIL C/M1	7.5	SEE DETAIL P/M01

DSA-POLESCH_C

POLE DATA TABLE											
POLE TYPE	PIECE MARK	MAX NUMBER of X-Arms	POLE SECTION	TOP O.D. (INCHES)	BTM. O.D. (INCHES)	OVERALL LENGTH	STRAIGHT LENGTH	TAPER LENGTH	THICKNESS (INCHES)	TOP OF STEEL NOMINAL	ASTM REFERENCE
LSS70A	LS-2004	1	FIXTURE MOUNTING	5.000"	5.431"	12'-7 1/2"	10'-11 1/2"	1'-8"	.120	75'-0 1/4"	A513 (Fy=38ksi)
	MP-1TT-3		#2	4.999"	9.440"	31'-8 5/8"	---	31'-8 5/8"	.120	---	A595A (Fy=55 ksi) or A572, Gr 55 or 65
	MP-3BT		#1	8.886"	13.400"	32'-2 7/8"	---	32'-2 7/8"	.179	---	A595A (Fy=55 ksi) or A572, Gr 55 or 65
	MP-3B		PRECAST BASE								

FOR PRECAST MEMBER PROPERTIES SEE PRECAST BASE DETAIL A/- STANFORD_E



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CITY OF LOS ANGELES DEPARTMENT OF PUBLIC WORKS BUREAU OF ENGINEERING

CLIENT: DEPARTMENT OF RECREATION & PARKS
GENERAL MANAGER: [Blank]
SHEET TITLE: 70A POLE DETAILS
PROJECT: RIO DE LOS ANGELES STATE PARK FIELDS MAINTENANCE IMPROVEMENTS PROJECT
ADDRESS: 1900 WEST SAN FERNANDO ROAD, LOS ANGELES, CA, 90039

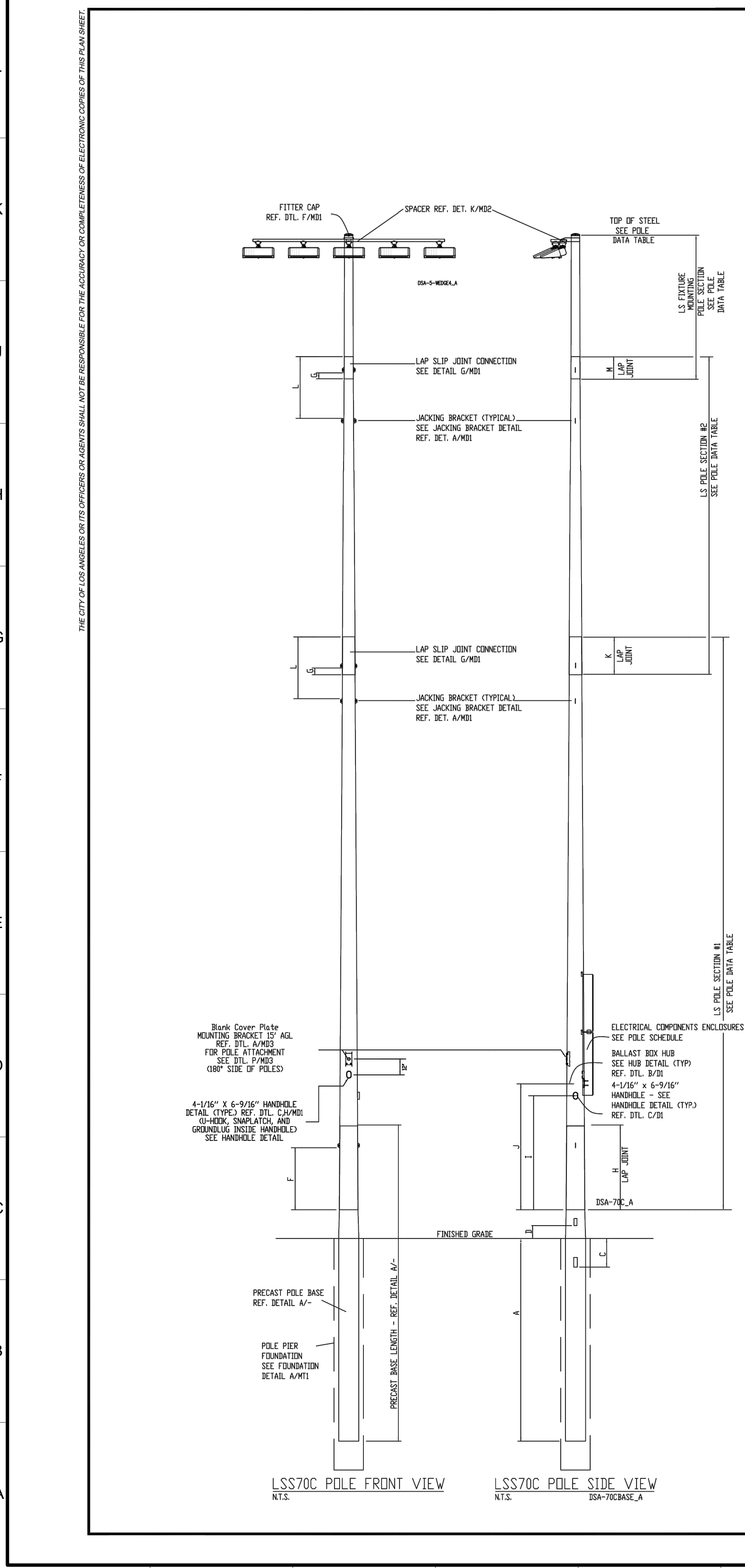
INDEX NO. RP-300125
CIP NO. G1188

NO.	REVISION DESCRIPTION	DATE	BY

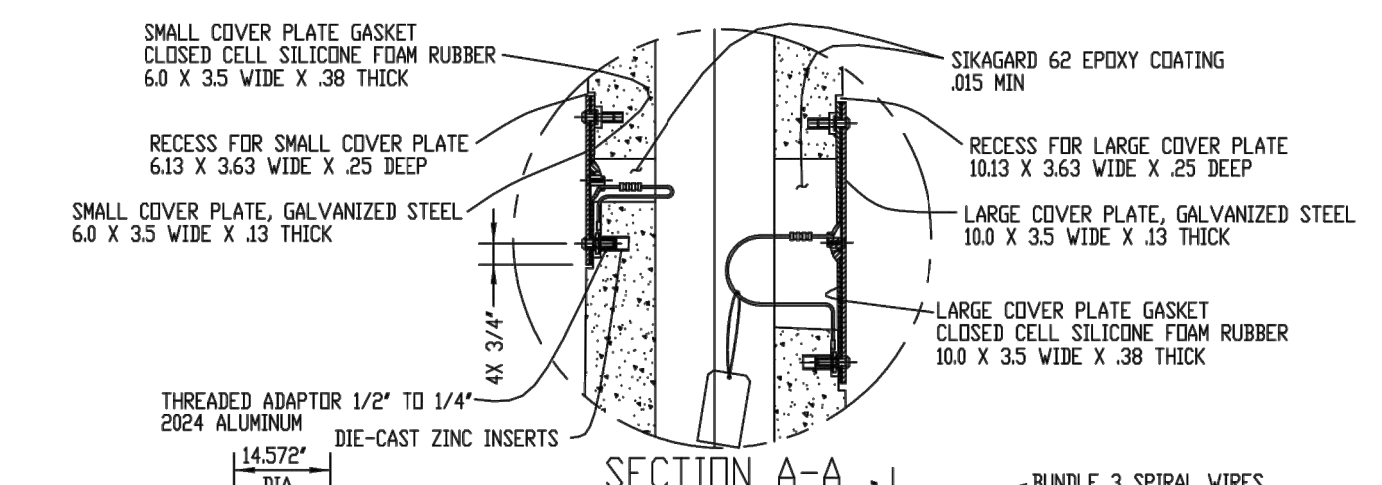
CITY ENGINEER: TED ALLEN, P.E.
DESIGN GROUP: [Blank]
DATE: 7/06/2023
ENGINEER: [Blank]
ARCHITECT: [Blank]
DESIGNED BY: CMH
DRAWN BY: [Blank]
CHECKED BY: [Blank]
APPROVED BY: [Blank]

WORK ORDER NO. E1908951
FILE NO. 999
DRAWING NO. MS1
SHEET 95 OF 100 SHEETS

REVISION DATES (DESIGN STAGE ONLY)

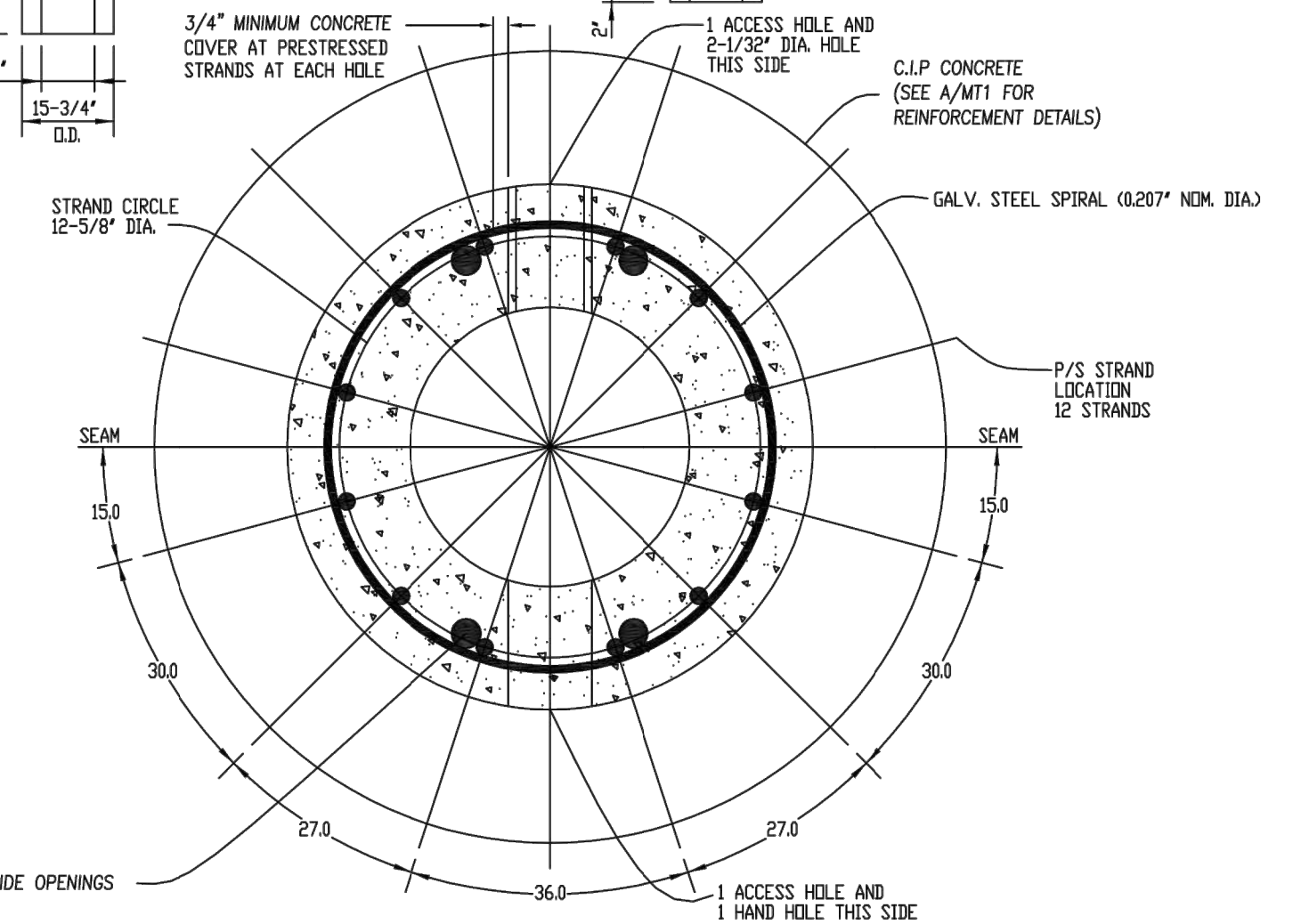


NOTATION	DIMENSION
A	14'-0"
B	2'-0" NOM.
C	1'-0" NOM.
D	4'-4" NOM.
E	1'-6"
F	5'-10 1/4" NOM. 5'-5" MIN.
G	7'-7 1/2" NOM.
H	8'-9 1/2" NOM.
J	2'-4 3/4" NOM. 1'-3 5/8" MIN.
K	4'-7" NOM.
L	1'-8 1/8" NOM. 11 1/2" MIN.

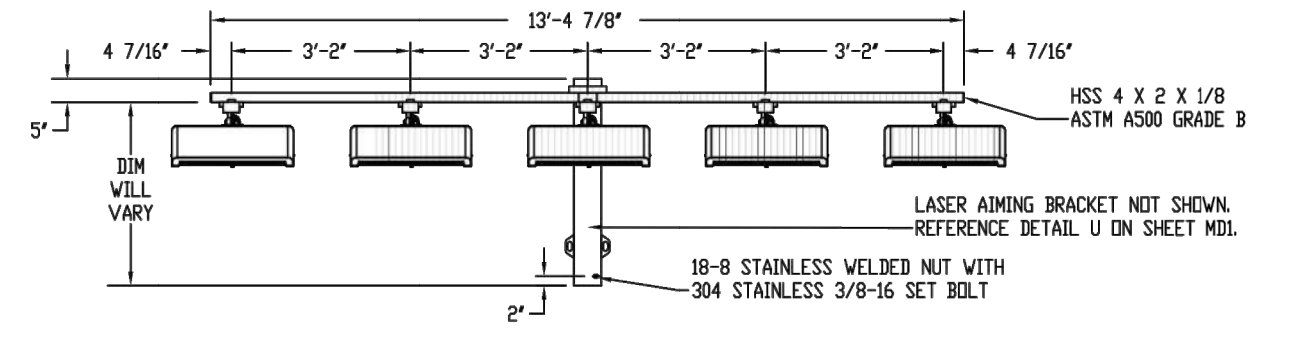


SPECIFICATIONS	
BASE LENGTH	22'-0"
DESIGN MOMENT CAPACITY	144 FT-K
SHIPPING WEIGHT	3750 LBS
PRODUCTION WEIGHT	3490 LBS
VOLUME OF CONCRETE	0.88 CU YD
28 DAY CONC. STRENGTH	9,500 PSI
NUMBER OF STRANDS	12
INITIAL PULL PER STRAND	26.5 KIPS
TIP WALL THICKNESS	3-1/2"
BUTT WALL THICKNESS	3-11/16"
PRESSURE LOSS/STRAND	4.8 KIPS
FINAL STRAND FORCE	21.7 KIPS
RELEASE STRENGTH	4,500 PSI

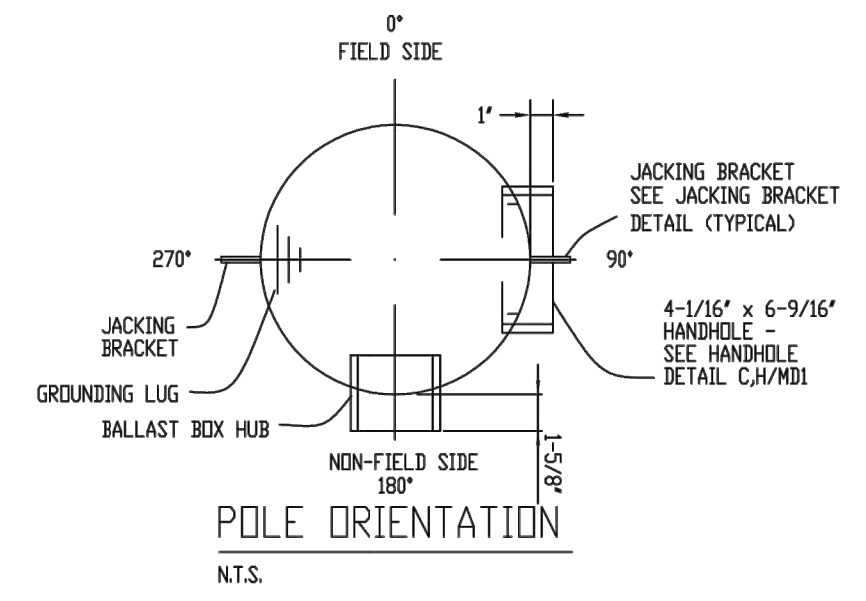
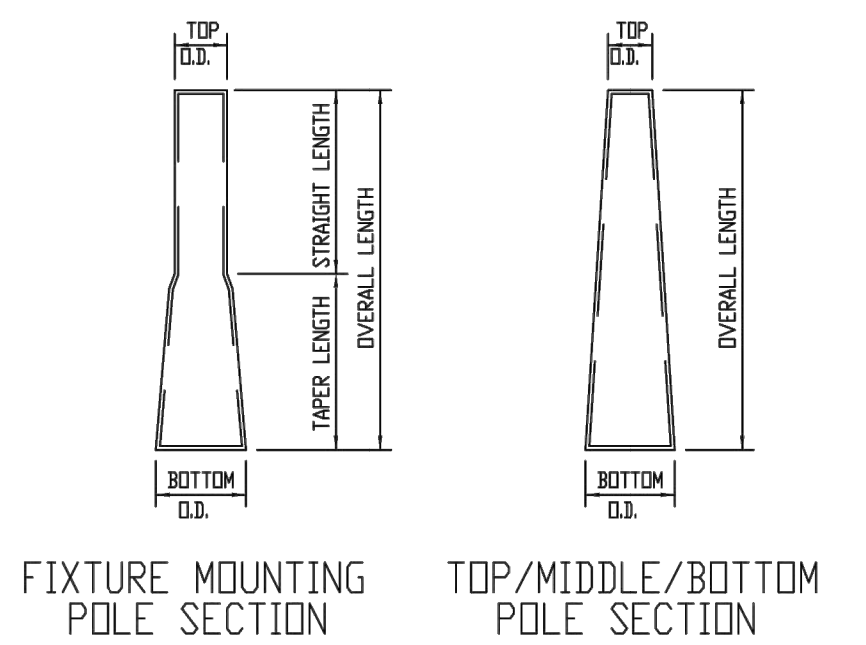
- NOTES:
- MATERIAL SPECIFICATIONS
 PRESTRESS STRAND ASTM A416 GR 270 (LOW RELAXATION)
 MILD REINFORCING: ASTM A615 GR 60
 SPIRAL WIRE: ASTM A1024 Fy=70 KSI
 CEMENT: ASTM C150, TYPE III
 AGGREGATE: ASTM C33 (SIZE NOT TO EXCEED 3/4")
 - EPOXY COAT ENDS OF BASE (T AND B) WITH SIKAGARD 62
 - MARK - DATE, TYPE & 'BOTTOM' NEAR BOTTOM OF BASE
 - STRANDS TO BE PRETENSIONED - (BONDED FULL LENGTH)
 - SP = PITCH OF SPIRALS
 - EPOXY COAT INSIDE SURFACES AT EACH HOLE WITH SIKAGARD 62 .015 MIN.



A TYPE 4B PRECAST BASE DETAIL
N.T.S. DSA-4Bconc_L



B 5 FIXTURE CONFIGURATION
N.T.S. DSA-5C-WEDGE4_A



POLE SCHEDULE						
SITE LOCATION	POLE MARK	REFERENCE LOCATION	POLE TYPE	FIXTURE CONFIGURATION	TOTAL EPA ¹	BALLAST BOX REQUIREMENTS
SEE SITE PLAN (BY OTHERS)	S23, S24, S25, S26	SEE POLE ORIENTATION PLAN	LSS70C	5 - SEE DETAIL C/MSE	11.9	SEE DETAIL RL/M/DI

DSA-POLESCH_C

POLE DATA TABLE											
POLE TYPE	PIECE MARK	MAX NUMBER OF X-ARMS	POLE SECTION	TOP O.D. (INCHES)	BTM. O.D. (INCHES)	OVERALL LENGTH	STRAIGHT LENGTH	TAPER LENGTH	THICKNESS (INCHES)	TOP OF STEEL NOMINAL	ASTM REFERENCE
LSS70C	LS-2016	1	FIXTURE MOUNTING	7.000"	7.898"	12'-7 1/2"	10'-7 1/2"	2'-0"	.125	75'-2 1/2"	AS13 (Fy=38ksi)
	MP-3TT-5		#2	7.413"	10.790"	24'-1 1/2"	24'-1 1/2"		.179		A595A (Fy=55 ksi) or A572, Gr 55 or 65
	MP-SBT		#1	10.096"	15.750"	40'-4 5/8"			.179		A595A (Fy=55 ksi) or A572, Gr 55 or 65
	MP-4B		PRECAST BASE								

FOR PRECAST MEMBER PROPERTIES SEE PRECAST BASE DETAIL A/- STAN70CDET_E

ENGINEERING
CITY OF LOS ANGELES

ENGINEER
CITY OF LOS ANGELES

CLIENT: DEPARTMENT OF RECREATION & PARKS
GENERAL MANAGER:
PROJECT: RIO DE LOS ANGELES STATE PARK FIELDS MAINTENANCE IMPROVEMENTS PROJECT
ADDRESS: 1900 WEST SAN FERNANDO ROAD, LOS ANGELES, CA, 90039

INDEX NO.: RP-300125
CIP NO.: G1188

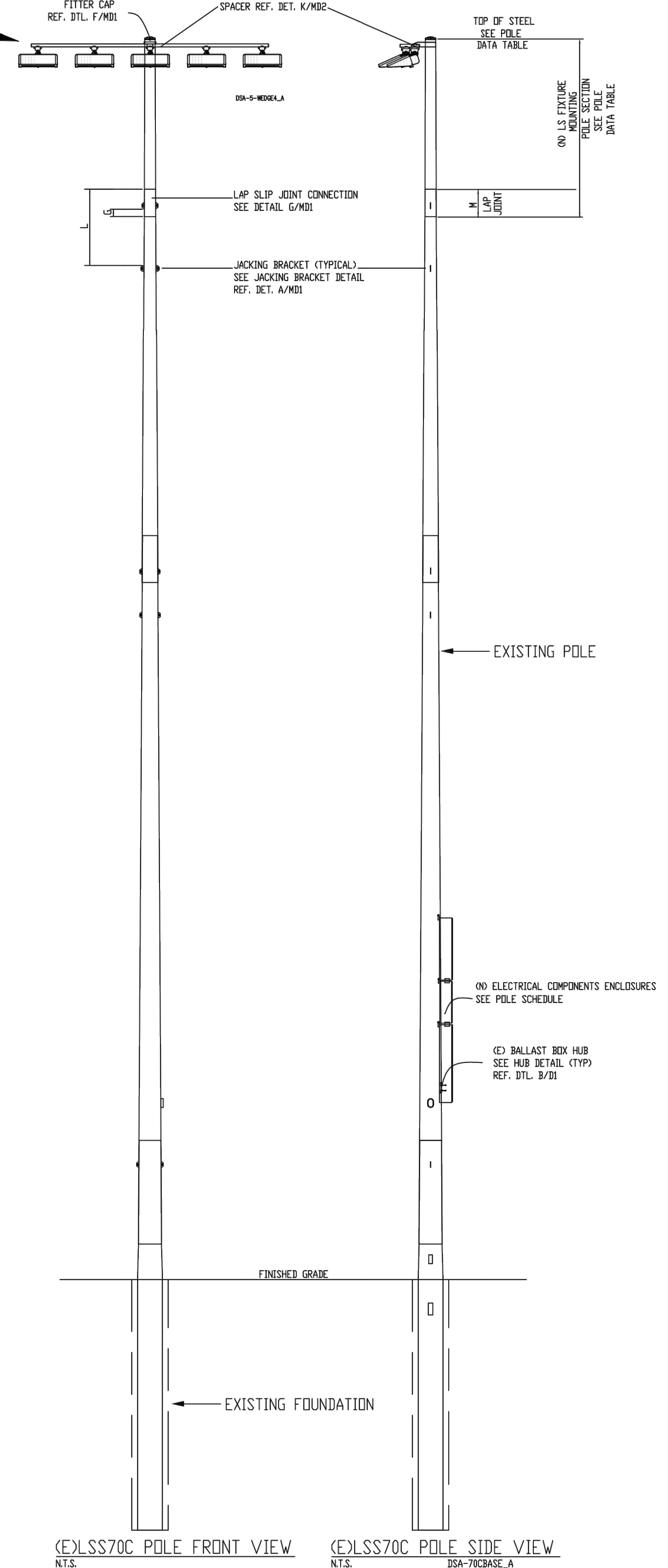
DESIGNER: TED ALLEN, P.E., CITY ENGINEER
DATE: 7/06/2023
ARCHITECT:
DESIGNED BY: CMH
DRAWN BY: CMH
CHECKED BY:
APPROVED BY:

WORK ORDER NO.: E1908951
FILE NO.: 999
DRAWING NO.: MS2
SHEET: 96 of 100 SHEETS

REVISION DATES (DESIGN STAGE ONLY)

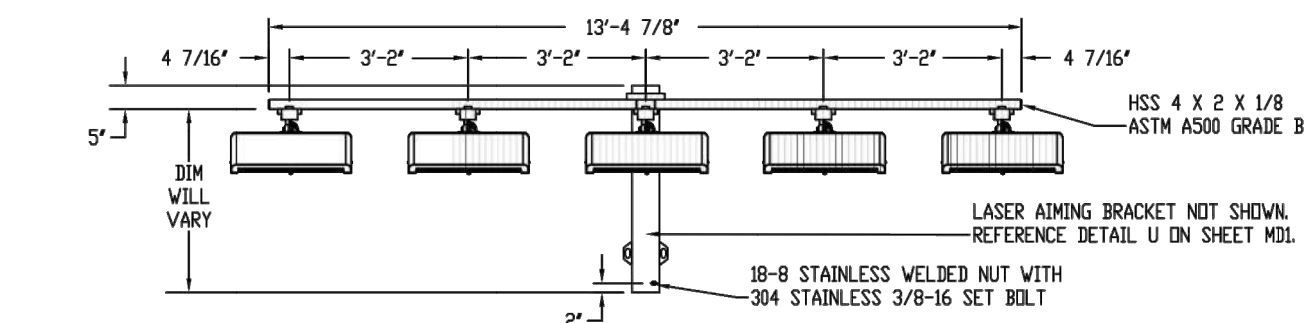
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REMOVE EXISTING FITTER SECTION AND FIXTURES AND REPLACE WITH NEW FITTER SECTION PER POLE DATA TABLE

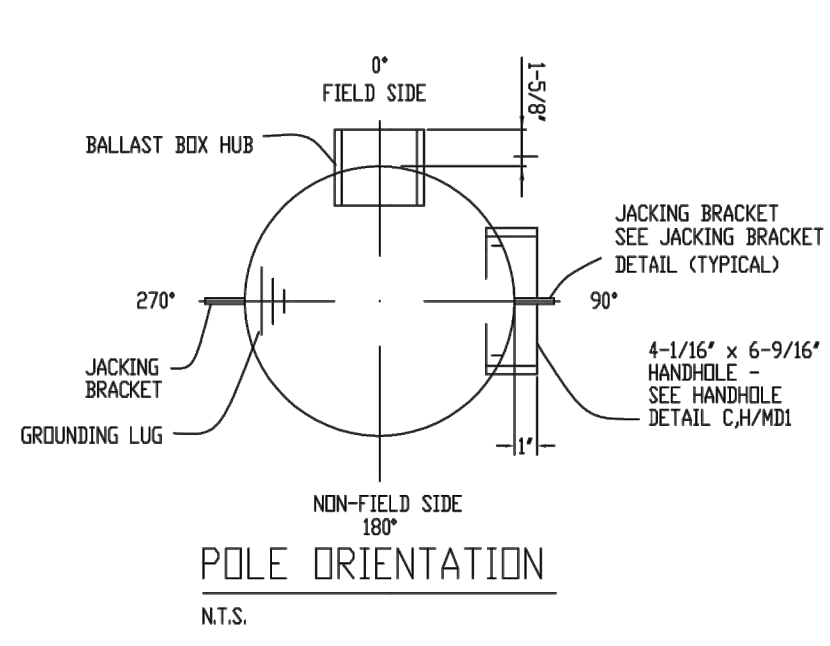


(E)LSS70C POLE FRONT VIEW N.T.S.
(E)LSS70C POLE SIDE VIEW N.T.S. DSA-70CBASE_A

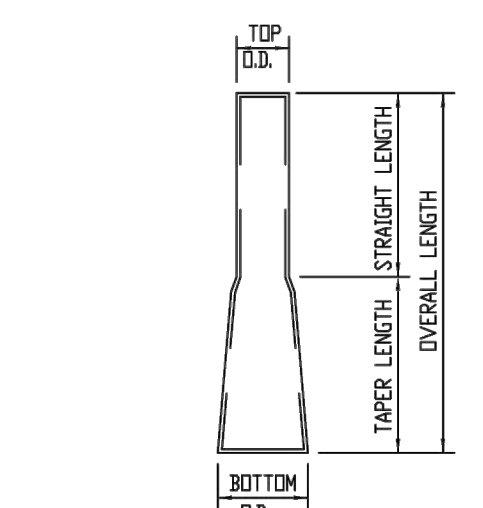
NOTATION	DIMENSION
	LSS70C
M	1'-8 1/8" NOM. 11 1/2" MIN.



(B) 5 FIXTURE CONFIGURATION N.T.S. DSA-SC-MEDGE4_A



POLE ORIENTATION N.T.S.

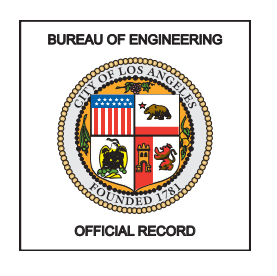


FIXTURE MOUNTING POLE SECTION

1. CONTAINS COMBINED EPA OF LIGHT FIXTURES, CROSS ARM AND MISCELLANEOUS FIXTURE MOUNTING APPARATUS. FIXTURE WEIGHT 528 LBS. THIS INCLUDES THE WEIGHT OF FIXTURE, CROSS ARM & MISC. MOUNTING APPARATUS. ELECTRICAL BALLAST BOX WEIGHT 20 LBS PER FIXTURE SERVICED.

POLE SCHEDULE						
SITE LOCATION	POLE MARK	REFERENCE LOCATION	POLE TYPE	FIXTURE CONFIGURATION	TOTAL EPA	BALLAST BOX REQUIREMENTS
SEE SITE PLAN (BY OTHERS)	S15(K)-S15(K)	SEE POLE ORIENTATION PLAN	(E) LSS70C	5 - SEE DETAIL B/MS2	13.4	SEE DETAIL RL/M01

POLE DATA TABLE											
POLE TYPE	PIECE MARK	MAX NUMBER of X-Arms	POLE SECTION	TOP O.D. (INCHES)	BTM O.D. (INCHES)	OVERALL LENGTH	STRAIGHT LENGTH	TAPER LENGTH	THICKNESS (INCHES)	TOP OF STEEL NOMINAL	ASTM REFERENCE
LSS70C	LS-2016	5	NO FIXTURE MOUNTING	7.000'	7.898'	12'-7 1/2'	10'-7 1/2'	2'-0"	.125	75'-2 1/2'	A513 (Fy=38ksi)



BUREAU OF ENGINEERING
 CLIENT: DEPARTMENT OF RECREATION & PARKS
 GENERAL MANAGER:
 SHEET TITLE: 70C RETROFIT POLE DETAILS
 PROJECT: RIO DE LOS ANGELES STATE PARK FIELDS MAINTENANCE IMPROVEMENTS PROJECT
 ADDRESS: 1900 WEST SAN FERNANDO ROAD, LOS ANGELES, CA, 90039

NO.	REVISION DESCRIPTION	DATE	BY

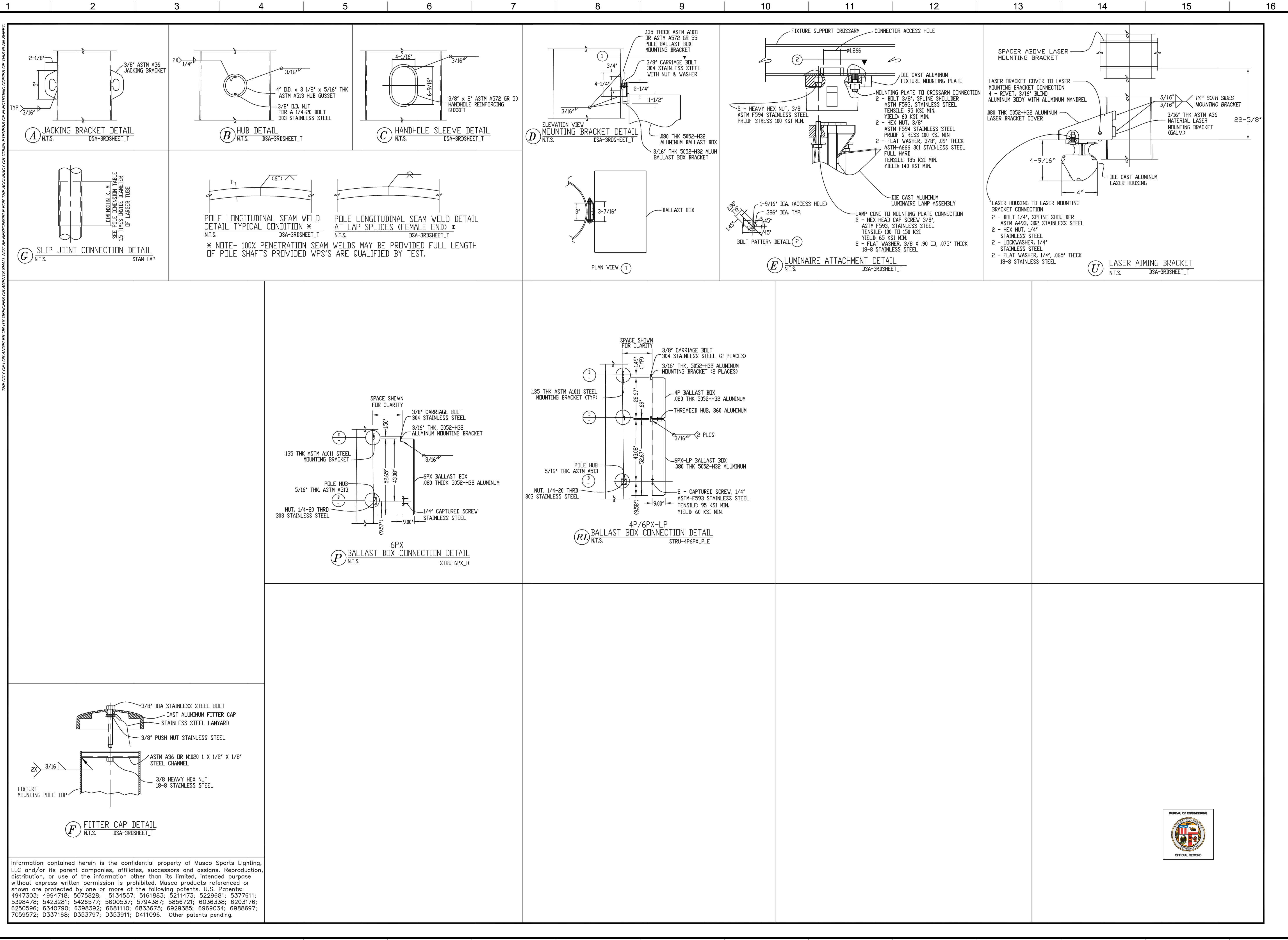
INDEX NO. **RP-300125** CIP NO. **G1188**

CITY OF LOS ANGELES DEPARTMENT OF PUBLIC WORKS
 CITY ENGINEER: TED ALLEN, P.E., CITY ENGINEER
 DESIGN GROUP: BUREAU OF ENGINEERING
 DATE: 7/06/2023
 ENGINEER: TED ALLEN, P.E.
 ARCHITECT: BUREAU OF ENGINEERING
 DESIGNED BY: CMM
 DRAWN BY: CMM
 CHECKED BY: CMM
 APPROVED BY: CMM
 WORK ORDER NO. E1908951
 FILE NO. 999
 DRAWING NO. **MS3**
 SHEET 97 OF 100 SHEETS

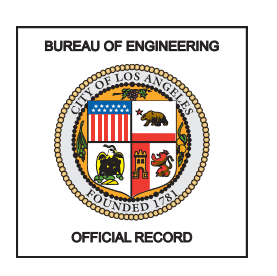
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ENGINEERING
CITY OF LOS ANGELES

BUREAU OF ENGINEERING

CLIENT: DEPARTMENT OF RECREATION & PARKS
GENERAL MANAGER: []
PROJECT: RIO DE LOS ANGELES STATE PARK FIELDS MAINTENANCE IMPROVEMENTS PROJECT
ADDRESS: 1900 WEST SAN FERNANDO ROAD, LOS ANGELES, CA, 90039

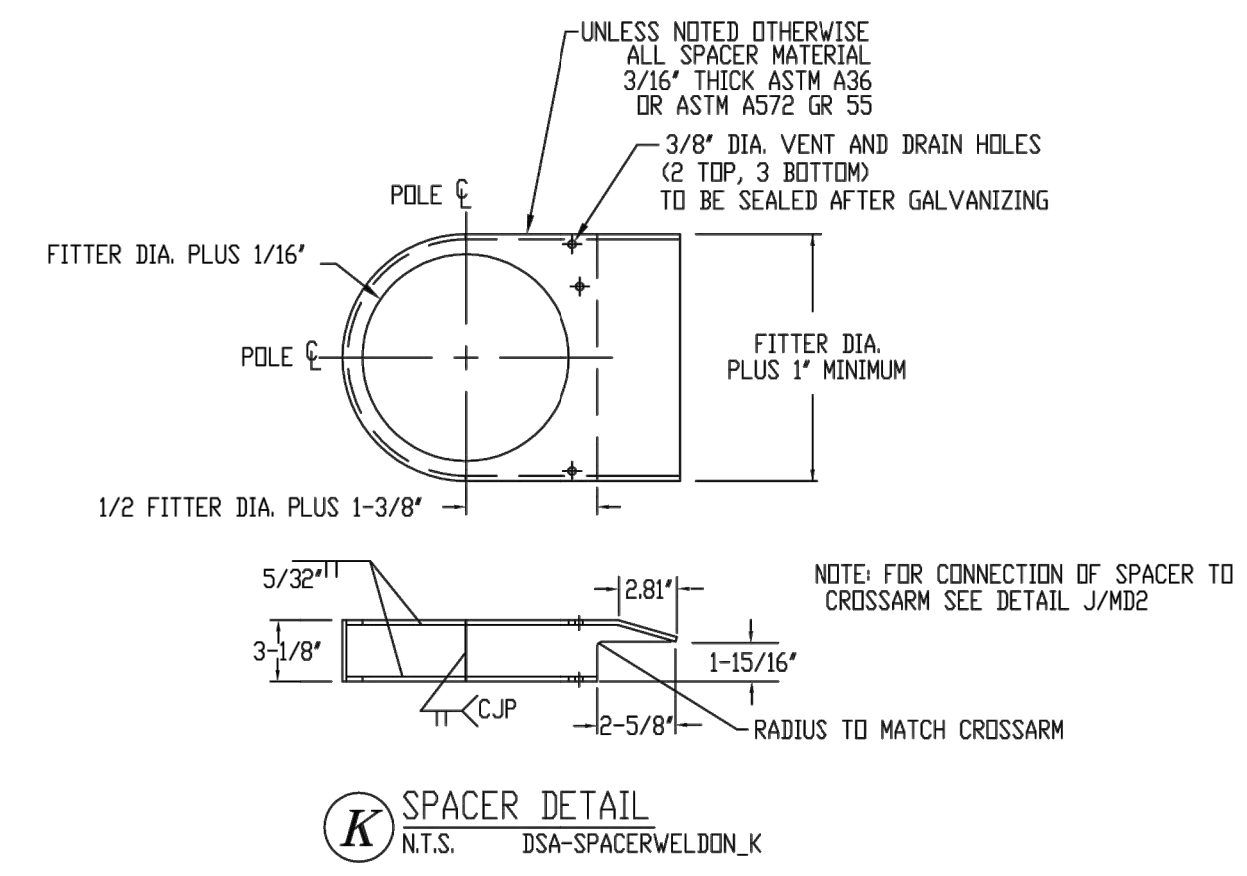
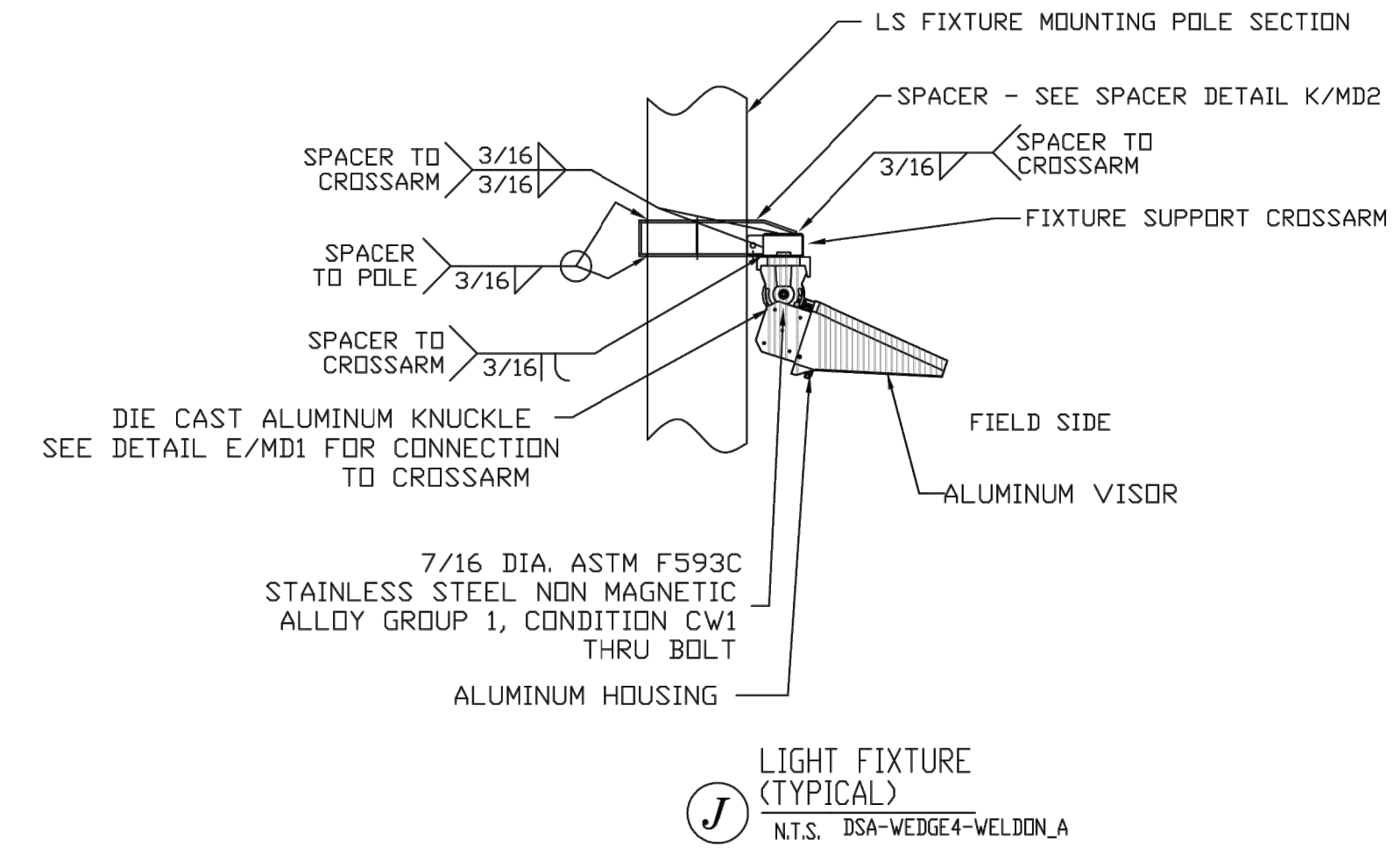
ATTACHMENT DETAILS

INDEX NO. **RP-300125** CIP NO. **G1188**

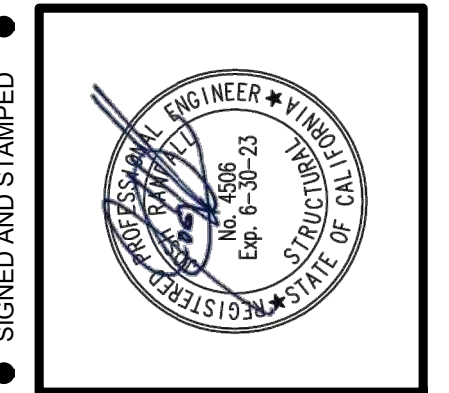
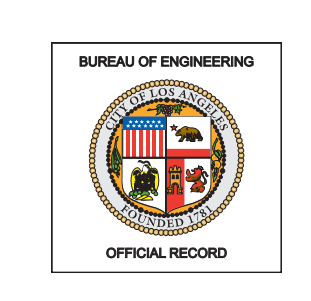
CITY ENGINEER: TED ALLEN, P.E. - CITY ENGINEER DESIGN GROUP
DATE: []
ARCHITECT: []
DESIGNED BY: []
DRAWN BY: CMH
CHECKED BY: []
APPROVED BY: []

WORK ORDER NO. **E1908951**
FILE NO. **999**
DRAWING NO. **MD1**
SHEET **98** OF 100 SHEETS

REVISION DATES (DESIGN STAGE ONLY)
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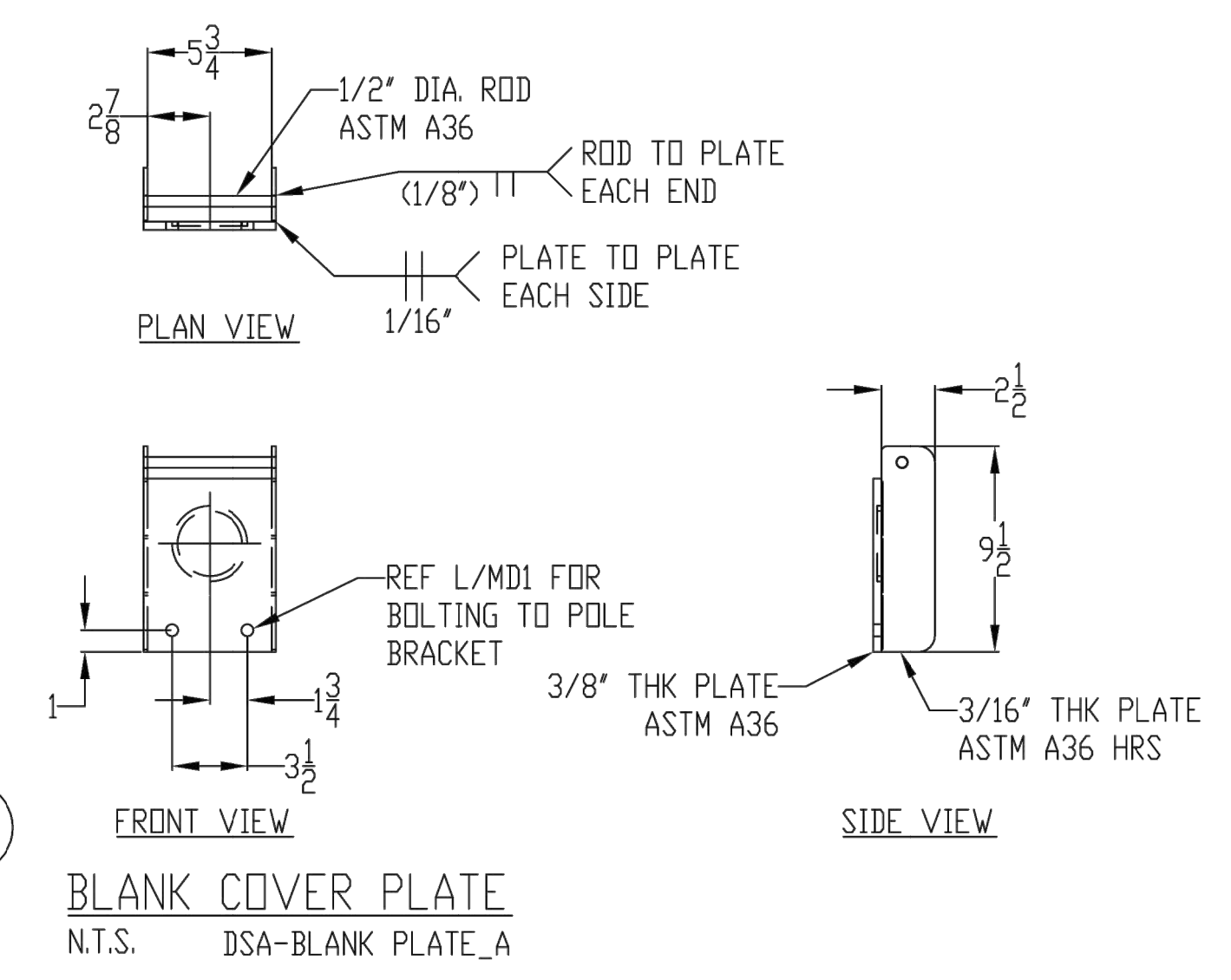
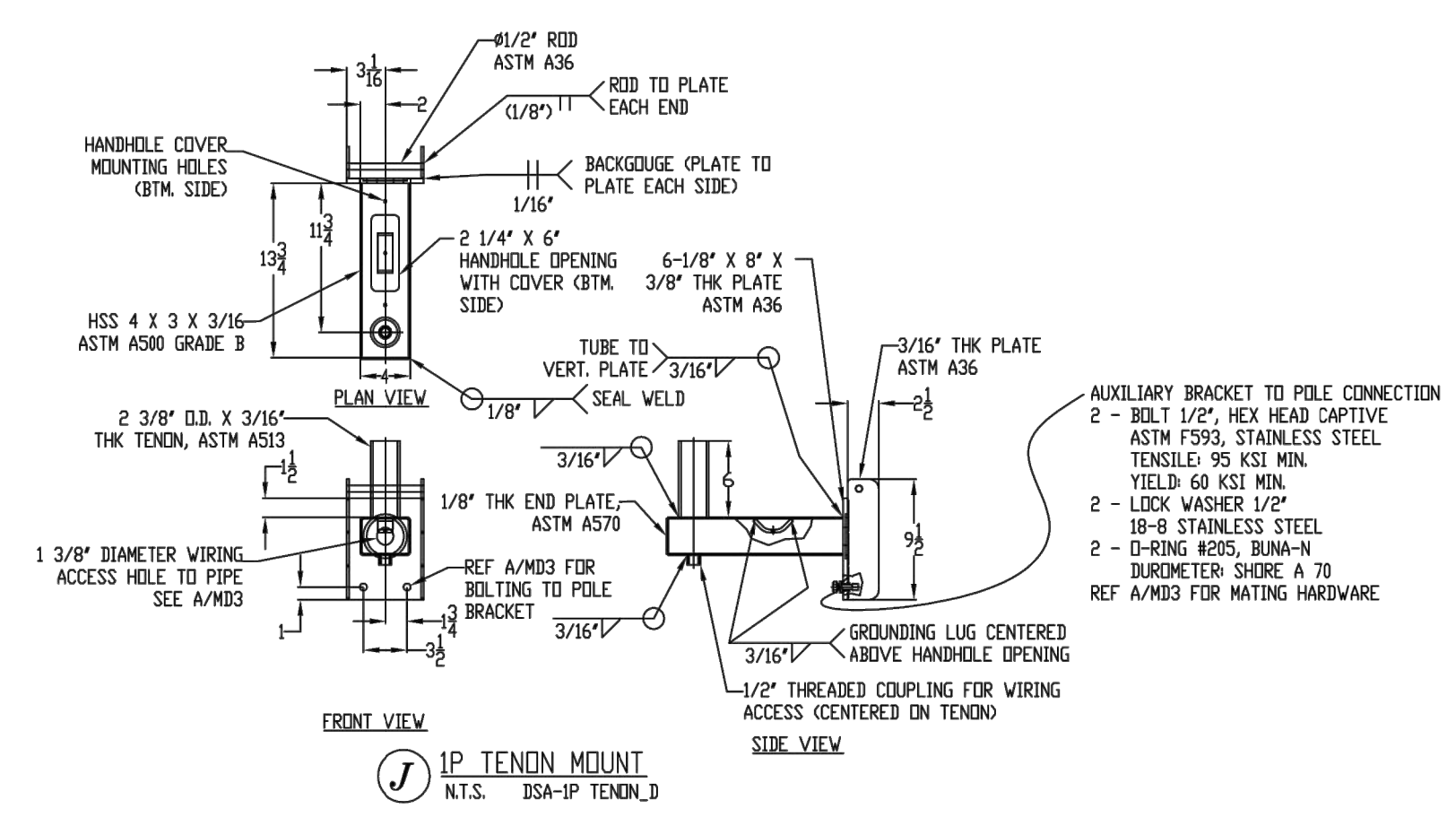
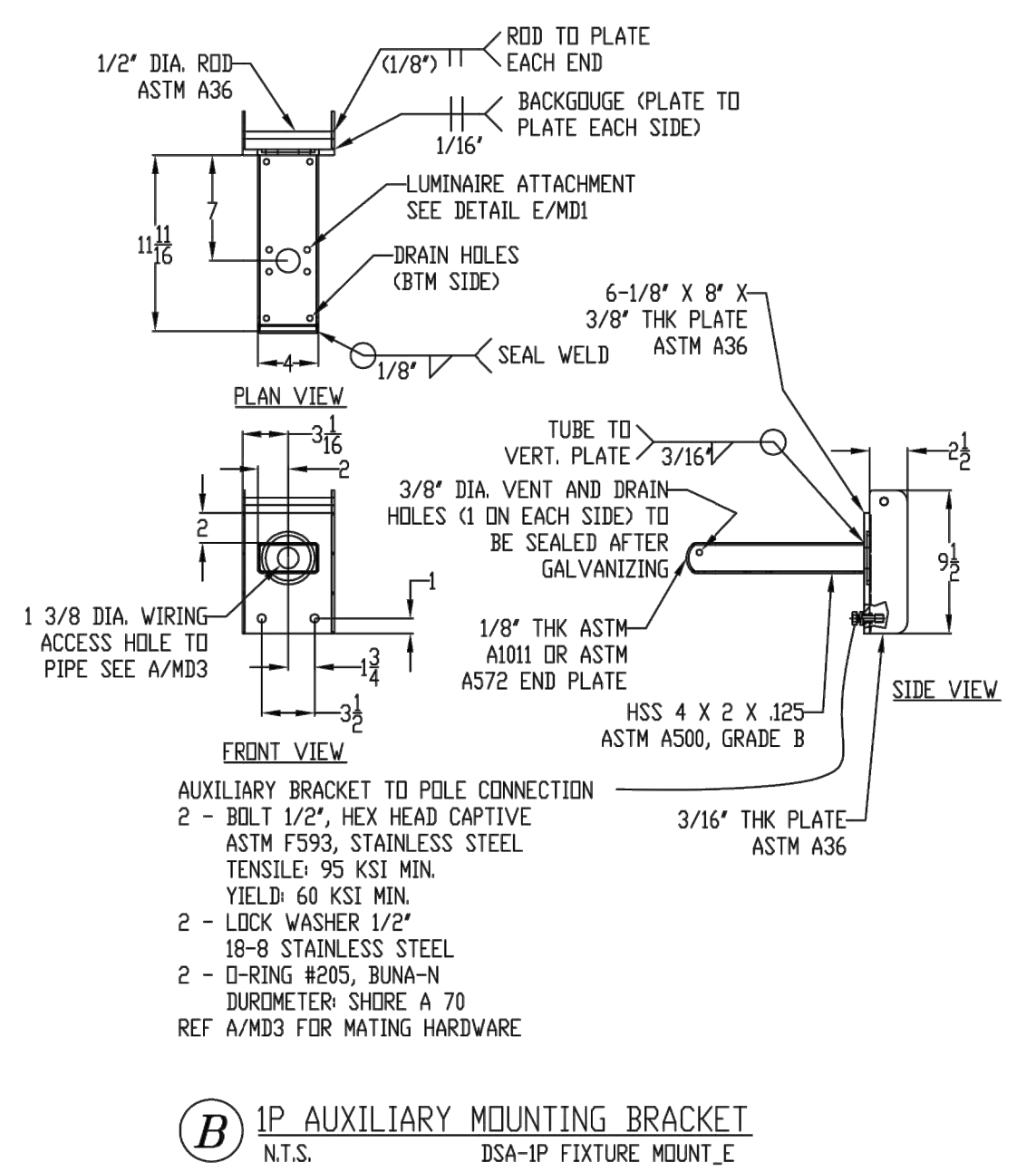
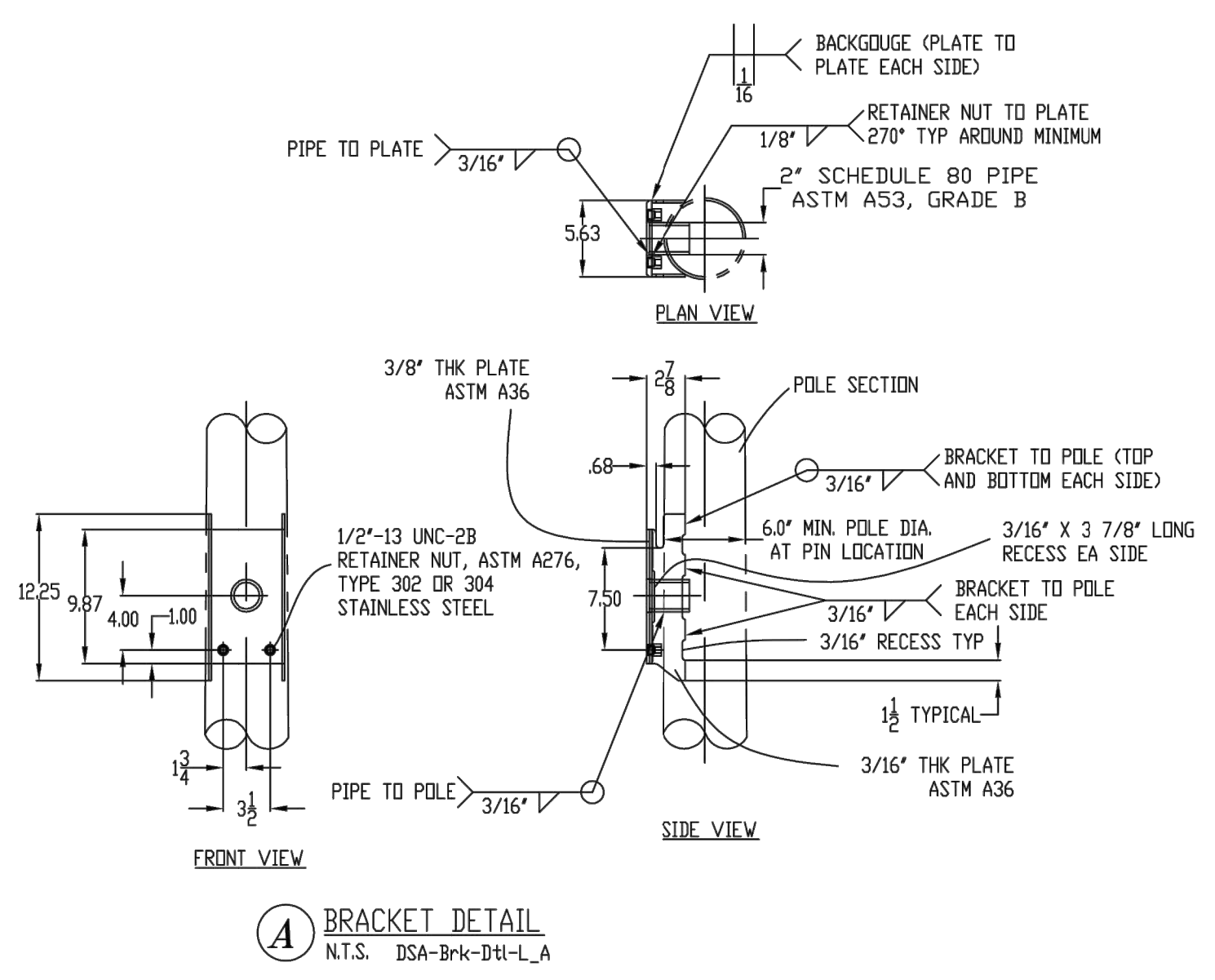
BUREAU OF ENGINEERING
 CLIENT: DEPARTMENT OF RECREATION & PARKS
 GENERAL MANAGER:
 SHEET TITLE: ATTACHMENT DETAILS
 PROJECT: RIO DE LOS ANGELES STATE PARK FIELDS MAINTENANCE IMPROVEMENTS PROJECT
 ADDRESS: 1900 WEST SAN FERNANDO ROAD, LOS ANGELES, CA, 90039

INDEX NO. **RP-300125**
 CIP NO. **G1188**

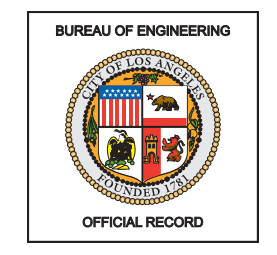
CITY OF LOS ANGELES DEPARTMENT OF PUBLIC WORKS
 TED ALLEN, P.E., CITY ENGINEER
 DESIGN GROUP
 ENGINEER: TED ALLEN
 ARCHITECT:
 DESIGNED BY:
 DRAWN BY: CMH
 CHECKED BY:
 APPROVED BY:
 CITY ENGINEER DATE: 7/06/2023
 WORK ORDER NO. **E1908951**
 FILE NO. **999**
 DRAWING NO. **MD2**
 SHEET **99** OF 100 SHEETS

REVISION DATES (DESIGN STAGE ONLY)

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ENGINEERING
CITY OF LOS ANGELES

BUREAU OF ENGINEERING

CLIENT: DEPARTMENT OF RECREATION & PARKS

GENERAL MANAGER: _____

SHEET TITLE: ATTACHMENT DETAILS

PROJECT: RIO DE LOS ANGELES STATE PARK FIELDS MAINTENANCE IMPROVEMENTS PROJECT

ADDRESS: 1900 WEST SAN FERNANDO ROAD, LOS ANGELES, CA. 90039

INDEX NO. **RP-300125**

CIP NO. **G1188**

NO.	REVISION DESCRIPTION	DATE	BY

CITY ENGINEER	DATE:	CITY ENGINEER	DATE:
DESIGN GROUP			
ENGINEER		TED ALLEN, P.E., CITY ENGINEER	7/06/2023
ARCHITECT			
DESIGNED BY:	cmh		
DRAWN BY:			
CHECKED BY:			
APPROVED BY:			

WORK ORDER NO.	E1908951
FILE NO.	999
DRAWING NO.	MD3
SHEET	100 of 100 SHEETS

CITY OF LOS ANGELES
DEPARTMENT OF PUBLIC WORKS
BUREAU OF ENGINEERING
1149 S. BROADWAY, 7th FLOOR
LOS ANGELES, CALIFORNIA 90015
CALIFORNIA ENVIRONMENTAL QUALITY ACT
NOTICE OF EXEMPTION
(Articles II and III – City CEQA Guidelines)

COUNTY CLERK'S USE

Submission of this form is optional. The form shall be filed with the County Clerk, 12400 E. Imperial Highway, Norwalk, California, 90650, pursuant to Public Resources Code Section 21152(b). Pursuant to Public Resources Code Section 21167(d), the filing of this notice starts a 35-day statute of limitations on court challenges to the approval of the project.

LEAD CITY AGENCY AND ADDRESS: City of Los Angeles c/o Bureau of Engineering 1149 S. Broadway, 6 th Floor, MS 939 Los Angeles, CA 90015	COUNCIL DISTRICT 1
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PROJECT TITLE: Rio de Los Angeles State Park Fields Maintenance Improvements (W.O. E1908950/ CIP No. G1188)	LOG REFERENCE
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PROJECT LOCATION: Rio de Los Angeles State Park at 1900 N San Fernando Rd, in the Northeast Los Angeles Community Plan Area of the City of Los Angeles (see *Figure 1: Project Location*). T.G. Page 594, Grid G4, G5, H4, H5

DESCRIPTION OF NATURE, PURPOSE, AND BENEFICIARIES OF PROJECT: The Project consists of upgrading the existing active recreation portion of the Rio de Los Angeles State Park. These upgrades include the renovation of three soccer fields and the replacement of a restroom. Project beneficiaries include community members that will have improved recreational facilities. Please see the project description continuation in the narrative for more details. On [Insert date (Month Day, Year)], the City Engineer approved the design plans and the Project is moving to the bid and award process to construct the Project.

CONTACT PERSON Sarah Bryson	CONTACT INFORMATION sarah.bryson@lacity.org
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EXEMPT STATUS: (Check One)	<u>CITY CEQA GUIDELINES</u>	<u>STATE CEQA GUIDELINES</u>
<input type="checkbox"/> MINISTERIAL	Art. II, Sec. 2. b	Sec. 15268
<input type="checkbox"/> DECLARED EMERGENCY	Art. II, Sec. 2.a(1)	Sec. 15269(a)
<input type="checkbox"/> EMERGENCY PROJECT	Art. II, Sec. 2.a(2)	Sec. 15269(b)(c)
<input type="checkbox"/> GENERAL EXEMPTION	Art. II, Sec. 1	Sec. 15061(b)(3)
<input checked="" type="checkbox"/> CATEGORICAL EXEMPTION*	Art. III, Sec. 1 Class 1 Cat. 1 Art. III, Sec. 1 Class 2 Cat. 3	Sec. 15301 (a) Sec. 15302 (c)
<input type="checkbox"/> STATUTORY*	Art. _____	Sec. _____

* See Public Resources Code Sec. 21080 and set forth state and city guidelines provisions.

JUSTIFICATION FOR PROJECT EXEMPTION: This project is exempt from CEQA pursuant to State CEQA Guidelines Article 19, Section 15301 (a) and 15302 (c). Additionally, the project is exempt pursuant to *Los Angeles CEQA Guidelines* Article III, Section 1, Class 1, Existing Facilities, Category 1 and Class 2, Replacement or Reconstruction, Category 3.
None of the limitations set forth in State CEQA Guidelines 15300.2 apply (see attached narrative).

IF FILED BY APPLICANT, ATTACH CERTIFIED DOCUMENT OF EXEMPTION FINDING

SIGNATURE: <i>Pending project approval.</i> Jan Green Rebstock	TITLE: Environmental Affairs Officer Clean Water Division	DATE: <i>Pending project approval.</i>
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FEE: \$75.00	RECEIPT NO.	REC'D BY	DATE
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CATEGORICAL EXEMPTION NARRATIVE

I. PROJECT DESCRIPTION (Continued)

The Rio de Los Angeles State Park Fields Maintenance Improvement Project (Project) proposes to improve the existing active recreation portion of the Rio de Los Angeles State Park (Park). The Project consists of the renovation of three soccer fields including converting two fields to synthetic turf, improving one natural turf field, and adding and improving lighting for the fields. The Project will also replace the existing restroom with a new restroom, provide new and renovated walking paths with pedestrian security lighting and cameras, renovate the existing south end parking lot by paving and adding security lighting and cameras, renovate the existing picnic area, provide new shade structures, and add new landscaping and trees (see *Figure 2: Conceptual Plan*).

The construction of the Project will include shallow excavation at the soccer fields for the conversion from natural turf to synthetic. The parking area will be graded to install new asphalt and pavers. Additionally, an auger will be used for the installation of the field light pole foundations. The Project footprint in total will be approximately 7.5 acres.

Unless otherwise stated, the proposed Project will be designed, constructed and operated following all applicable laws, regulations, ordinances and formally adopted City standards including but not limited to:

- Los Angeles Municipal Code
- Bureau of Engineering Standard Plans
- Standard Specifications for Public Works Construction
- Work Area Traffic Control Handbook
- Additions and Amendments to the Standard Specifications for Public Works Construction

II. PROJECT HISTORY

The site was previously part of the Union Pacific Railyard. The resulting soil contamination was cleaned to residential standards under the oversight of the Department of Toxic Substances Control. In 2004, State Parks adopted an IS/MND to support the construction and operation of the existing Rios de Los Angeles State Park (Park) (State of California Department of Parks and Recreation, 2004). The Park started construction in 2005 and began operations in 2007. The Park is owned by California State Parks and the City of Los Angeles has a lease of the active recreation areas. City of Los Angeles Recreation and Parks operates and maintains the active recreation portion of the Park where the improvements will occur. The soccer fields are heavily used, and the local community has requested these upgrades. Upgrading and maintaining this area for active recreation will allow for other areas owned by the City in the vicinity to be dedicated to passive recreation and habitat restoration.

III. ENVIRONMENTAL REVIEW

Basis for Categorical Exemption

The proposed Project is exempt from CEQA pursuant to State CEQA Guidelines Article 19, Section 15301, Class 1 (a) *Existing Facilities*, and Section 15302, Class 2 (c) *Replacement or Reconstruction* for repair and maintenance of existing facilities and replacement or reconstruction of existing utilities with no expansion of capacity because the project consists of minor upgrades and improvements to existing park facilities with no expansion of use.

Additionally, this Project is exempt from CEQA pursuant to the *Los Angeles CEQA Guidelines* Article

III, Section 1, Class 1 (1) *Existing Facilities* for exterior alternations involving minor construction and Class 2 (3) *Replacement or Reconstruction* of existing facilities with negligible expansion of capacity because the Project consists of minor upgrades and improvements to existing park facilities.

Consideration of Potential Exceptions to use of a Categorical Exemption

The State CEQA Guidelines (CCR Sec 15300.2) limit the use of categorical exemptions in the following circumstances:

1. Location. Exemption Classes 3, 4, 5, 6, and 11 are qualified by consideration of where the project is to be located – a project that is ordinarily insignificant in its impact on the environment may be significant in a particularly sensitive environment. Therefore, these classes are considered to apply all instances, except where the project may impact on an environmental resource of hazardous or critical concern where designated, precisely mapped, and officially adopted pursuant to law by federal, state, or local agencies.

This Project is exempt from CEQA pursuant to State CEQA Guidelines Article 19, Section 15301, Class 1 (b) Existing Facilities, and Article 19, Section 15302, Class 2 (c) Replacement or Reconstruction. Therefore, this exception does not apply.

2. Cumulative Impact. This exception applies when, although a project may not have a significant impact, the cumulative impact of successive projects of the same type in the same place, over time is significant.

No cumulative impacts are expected from this Project. As identified on the 100-Acre Partnership's website (<https://www.100acrepartnership.org/projects>) several projects in the vicinity at the nearby and adjacent G1 and G2 Parcels are in the planning stages, such as the Bowtie Demonstration Project (2.5 acres), Bowtie G1 Project (18 acres), Paseo del Rio Project at Taylor Yard (approximately 16 acres). These projects are focused on habitat creation and restoration and passive recreation. Given the nature of the Project, as minor upgrades to an existing park, this Project is not anticipated to result in a cumulative impact when considering these related projects in the vicinity that are in various stages of approval and if approved, will be constructed after implementation of the proposed Project. Therefore, this exception has no application to this Project.

3. Significant Effect. This exception applies when, although the project may otherwise be exempt, there is a reasonable possibility that the project will have a significant effect due to unusual circumstances.

Biological Resources

No impacts to biological resources are anticipated from this Project. Least Bell's vireo (*Vireo bellii pusillus*) (LBV) is known to occur adjacent to the Project site. This species is a Federally and State Endangered bird. With this in mind, construction of Project has been designed in consultation with the US Fish and Wildlife Service (USFWS) and the California Department of Fish and Wildlife (CDFW) to avoid impacts to this species from construction noise (see attached No Take Construction Plan).

LBV return to southern California breeding sites beginning mid-to late- March; they are often present on the breeding grounds until late September, although some may begin departing to non-breeding areas by late July. For this proposed Project, CDFW and USFWS have suggested a LBV breeding season period of March 15 to August 31 of any year as an effective period for Project conservation measure planning.

Construction of the Project is anticipated to occur across LBV breeding seasons in 2023 and 2024. Therefore, Project construction activities will be phased so that the majority of the work activities, including work that generates the greatest sound levels, will occur in the non-breeding season during

the periods of September 1 to March 14 of any consecutive year. A Project Construction Noise Management Plan will be prepared by the construction contractor to schedule work consistent with these requirements and identify construction noise monitoring procedures, with a performance standard of below 60dBA Leq hourly, or below existing background (dBA Leq hourly) noise levels, whichever is higher, during the breeding season when LBV are in the Project area.

In addition, the City’s Bureau of Engineering (BOE) will conduct LBV protocol surveys of both the Project footprint and areas within 200 meters of the footprint prior to the beginning of Project construction to determine the presence/absence of LBV. Additional protocol surveys will be performed in 2024 if Project construction activities overlap with the following breeding season. BOE will also conduct an additional directed survey effort by a qualified biologist to establish and map the territory boundaries of LBV within 200 meters (600 feet) of the Project direct footprint. These surveys and LBV territory boundary mapping will be conducted in order to determine boundaries (edges) needed for Project noise construction monitoring.

Hazards & Hazardous Materials

As discussed above, the soil on the Project site was previously contaminated but was cleaned to residential standards under the oversight of DTSC. As of January 20, 2023, the DTSC Envirostor database (www.envirostor.dtsc.ca.gov) indicated two existing sites within 1000-ft of the Project site though one was incorrectly located on the Envirostor map and is outside of the search buffer by 100 feet (see below). These sites are located on surrounding Taylor Yard parcels and are both characterized by soil contamination resulting from the previous railyard operations. For the Taylor Yard Parcel G2, which is owned by the City, DTSC is providing oversight regarding future remediation of the site. This site is currently going through a community planning process to be remediated and then opened to the public as a community gathering place with increased restored habitat and passive recreation. The site located at Taylor Yard Parcel C is a bare lot adjacent to a housing development owned by Los Angeles County Metropolitan Transportation Authority. Previously, this site underwent *in situ* remediation and excavation. However, lead and arsenic remain above threshold levels for residential development (Geocon 2022). An additional site was identified by the California Regional Water Quality Control Board (RWQCB) (Geotracker database at <https://geotracker.waterboards.ca.gov/>). This site is characterized by soil contamination related to the metal plating processes that occurred in the past. Groundwater testing in 2019 found groundwater at 30-ft below ground surface and found one volatile organic compound, Cis-1,2-Dichloroethene (cis-1,2-DCE), and two metals Arsenic and Thallium, present above maximum contaminant levels (MCL). Arsenic and Thallium are suspected to result naturally from local sediments (Bowyer Environmental Consulting, 2019). Groundwater movement from the contamination is southerly, away from the Project site, and not expected to impact the Project.

Site Name	Status	Data Source	Note
Taylor Yard Parcel C	Active	Envirostor	Outside of search buffer
Taylor Yard Parcel G2 - Area A	Inactive – Needs Evaluation	Envirostor	
Former Acme Metal Finishing	Active – in remediation	Geotracker	

Due to shallow excavation (maximum depth 18-ft for light pole installation), the lack of groundwater expected (Geotechnical Report, 2022), and the lack of groundwater encountered when the Park was constructed, the construction of this Project is not expected to result in any contact with groundwater. However, if groundwater is encountered during construction activities, construction shall be halted in the area until appropriate dewatering or avoidance measures are identified.

Significant effects due to hazards and hazardous materials were previously evaluated for the construction of the Park. (State Parks, 2004). No unusual circumstances related to these improvements to the existing Park are anticipated. Therefore, this exception has no application to this Project.

4. Scenic Highway. A categorical exemption shall not be used for a project which may result in damage to scenic resources, including but not limited to, trees, historic buildings, rock outcroppings, or similar resources, within a highway officially designated as a state scenic highway.

The proposed Project is not within a state designated scenic highway or within sight of any state designated scenic highway. Therefore, this exception has no application to this Project.

5. Hazardous Waste Site. This exception applies when a project is located on a site listed as a hazardous waste site under Government Code Section 65962.5.

As of January 20, 2023, the State Department of Toxic Substances Control (DTSC) (Envirostor at www.envirostor.dtsc.ca.gov) has not listed any location on the Project site as a hazardous waste site. As of January 20, 2023, the California Regional Water Quality Control Board (RWQCB) (Geotracker at <https://geotracker.waterboards.ca.gov/>) has not listed any location at the Project site as a hazardous waste site. As described above in Section 3. Significant Effects, there are several contaminated sites in the vicinity of the Project, however these sites are not anticipated to represent an environmental concern in connection with the Project; therefore, this exception does not apply.

6. Historical Resources. This exception applies when a project may cause a substantial adverse change in the significance of a historical resource.

No known historic resources occur in the Project site. From a search of NavigateLA December 20, 2022, a potential historic resource was found near the Project site. This resource was identified as the Dayton Tower, a structure associated with the Union Pacific Railyard and was previously located adjacent to the Park at 1545 N San Fernando Boulevard, per documentation received from the South Central Coastal Information Center. Currently, the Dayton Tower is located at 1215 N. San Fernando Boulevard and is no longer adjacent to the Project area.

Construction activities include minimal excavation and trenching. Due to prior remediation activities, clean fill was imported to the Project site with construction of the Park. However, if an unanticipated discovery is made during ground-disturbing activities, Standard Specifications for Public Works Construction will be followed, and the Contractor shall immediately cease excavation in the area of the discovery and shall not continue until ordered by the City's Engineer, after consulting with a qualified archeologist.

IV. REFERENCES

100 Acre Partnership. 100-Acre Partnership Projects., available from:

<https://www.100acpartnership.org/projects>

Bowyer Environmental Consulting, 2019. Groundwater Monitoring Report First Quarter 2019, Former Acme Metal Finishing, 1250-1262 N. San Fernando Road and 2615 Arvia Los Angeles, CA

California Code of Regulations, Title 14, Division 6, Chapter 3 (State CEQA Guidelines), available from <http://leginfo.legislature.ca.gov/>

California Department of Transportation (Caltrans). *California State Scenic Highway System Map*. Retrieved December 20, 2022, from <https://caltrans.maps.arcgis.com/apps/webappviewer/index.html?id=465dfd3d807c46cc8e8057116f1aaca>

City of Los Angeles Department of City Planning Parcel Profile Report. Retrieved on January 20, 2023 from *NavigateLA* <http://boemaps.eng.ci.la.ca.us/navigatela/>

City of Los Angeles Department of Public Works Bureau of Engineering. Retrieved on January 20, 2023, *NavigateLA*. <http://boemaps.eng.ci.la.ca.us/navigatela/>

City of Los Angeles Environmental Quality Act Guidelines available from https://planning.lacity.org/EIR/CEQA_Guidelines/City_CEQA_Guidelines.pdf

GeoCon West Inc., 2022. Stockpile disposal completion report, Yaylor Yard VTT Lot 9,1231 North San Fernando Road, Los Angeles, California

Geotechnical engineering report Rio de Los Angeles State Park Improvements 1545 – 1559 North San Fernando road Los Angeles, California, W.O. #E1908950, GED file # 22-066, September 20, 2022. Completed by the City of Los Angeles

Los Angeles Municipal Code

Public Resources Code, Div. 13, Sections 21000-21189 (CEQA), available from <http://leginfo.legislature.ca.gov/>

State of California Department of Parks and Recreation (State Parks), 2004. Taylor Yard Park Development Final Mitigated Negative Declaration.



Figure 1: Project Location



Figure 2: Conceptual Plan