APPROVED
August 21 2025
BOARD OF RECREATION
AND PARK COMMISSIONERS

BOARD REPORT **NO.** 25-145

DATE August 21, 2025 C.D. 12

BOARD OF RECREATION AND PARK COMMISSIONERS

SUBJECT: CHATSWORTH PARK NORTH – OUTDOOR FIELD IMPROVEMENTS (W.O. #E170488F) (PRJ21513) PROJECT – FINAL ACCEPTANCE

B. Aguirre		M. Rudnick	
B. Jones		for* C. Santo Domingo	DF
C. Stoneham		N. Williams	

General Manager

Approved X Disapproved _____ Withdrawn _____

RECOMMENDATIONS

1. Accept the work performed for the Chatsworth Park North – Outdoor Field Improvements (W.O. #E170488F) (PRJ21513) Project (Project), constructed by the Department of Recreation and Parks (RAP) as-needed prequalified on-call vendors, as outlined in the Summary of this Report.

SUMMARY

Chatsworth Park North is located at 22300 W. Chatsworth Street in the Chatsworth community of the City. This 24.15-acre facility provides multipurpose fields, a basketball court, and a children's play area for the use of the local community. Approximately 613 City residents live within a one-half mile walking distance of Chatsworth Park North. Due to the facilities, features, programs, and services it provides, Chatsworth Park North meets the standard for a Community Park, as defined in the City's Public Recreation Plan.

The Project is a Proposition K – L.A. for Kids Program (Proposition K) funded project. The Project scope of work consists of replacing the existing irrigation system; reconfiguring the baseball infields; grading and reseeding of the outfields; and replacing fence fabric, bleachers, and drinking fountains.

As required by Proposition K, three Local Volunteer Neighborhood Oversight Committee (LVNOC) meetings were conducted. The community, LVNOC, and Council District 12 are in full support of this Project.

On February 18, 2021, the Board of Recreation and Park Commissioners (Board) approved the final plans and specifications for the Project (Report No. 21-030), and bids for the work were solicited from RAP's pre-qualified contractors. Evergreen Environment Inc. (Evergreen) was determined to be the lowest responsive and responsible bid, and a Notice to Proceed letter was issued on October 13, 2021.

Plans and specifications as well as the construction management for the Project were provided by the Department of Public Works, Bureau of Engineering (BOE).

BOE has informed RAP that the Project is complete and Evergreen has furnished the required permits, as-built drawings, warranties and guarantees. Staff consulted with the Bureau of Contract Administration (BCA), Office of Contract Compliance (OCC) concerning the status of the labor compliance and Affirmative Action requirements on the Project. OCC reported that Evergreen is in compliance. The breakdown of the total construction cost is as follows:

Vendor	Original Award Amount	Change Order Amount	Change Order Percentage	Total Amount
Evergreen Environment, Inc.	$705,273.51	$64,957.00	9.21%	$770,230.51

During the course of construction, eight change orders were issued for the Project, in the amount of $64,957 or 9.21% of the base contract amount. The following table summarizes the change orders issued by category and the attached Change Order Log (Attachment No. 4) provides a listing of all the change orders.

Change Order Expenditure Summary			
Change Order Type	**Number of Change Orders**	**Cumulative Costs**	**Percent (%) of Original Base Contract Amount**
Unforeseen Conditions	2	$8,857	1.26%
Errors & Omissions	3	$7,306	1.03%
Change in Scope	3	$48,794	6.91%
Total	**8**	**$64,957**	**9.21%**
Contingency	$70,527		
Remaining Contingency	$5,570		

TREES AND SHADE

No trees were removed as part of this Project. Ten 24” box Tipuana Tipu trees and three 24” box Pistacia Chinensis trees were planted. The new canopy provided by these trees after five years is expected to be 14,000 sf.

ENVIRONMENTAL IMPACT STATEMENT:

The Board approved the Project on February 18, 2021 (Report 21-030) and determined that it was exempt from the California Environmental Quality Act (CEQA). The Project has been competed according to specifications and staff recommend that the Board take no further CEQA action.

FISCAL IMPACT STATEMENT

The Project is funded by the aforementioned funding sources. RAP's future maintenance and operations costs will be requested through the City budget process.

This Report was prepared by Richard Campbell, Project Manager, and reviewed by Ohaji Abdallah, Prop K Program Manager – Architectural Division, Bureau of Engineering.

LIST OF ATTACHMENTS

1) Attachment No. 1 – RAP Board Report No. 21-030
2) Attachment No. 2 – RAP Board Report No. 21-169
3) Attachment No. 3 – Notice to Proceed
4) Attachment No. 4 – Change Order Log
5) Attachment No. 5 – Record Drawings

APPROVED
FEB 18 2021
BOARD OF RECREATION
AND PARK COMMISSIONERS

BOARD REPORT NO. 21-030

DATE February 18, 2021 C.D. 12

BOARD OF RECREATION AND PARK COMMISSIONERS

SUBJECT: CHATSWORTH PARK NORTH – OUTDOOR FIELD IMPROVEMENTS (W.O. #E170488F) PROJECT – APPROVAL OF FINAL PLANS – CATEGORICAL EXEMPTION FROM THE PROVISIONS OF THE CALIFORNIA ENVIRONMENTAL QUALITY ACT (CEQA) PURSUANT TO ARTICLE III, SECTION 1, CLASS 1(1) [MINOR EXTERIOR ALTERATIONS WITH NO OR NEGLIGIBLE EXPANSION OF USE], CLASS 1(12) [OUTDOOR FENCING FOR SECURITY AND OPERATIONS], CLASS 4(3) [NEW GARDENING, TREE PLANTING AND LANDSCAPING], CLASS 11(3) [PLACEMENT OF MINOR STRUCTURES ACCESSORY TO INSTITUTIONAL EXISTING FACILITIES] AND CLASS 11(6) [CONSTRUCTION OF MINOR STRUCTURES ACCESSORY TO EXISTING INSTITUTIONAL FACILITIES] OF CITY CEQA GUIDELINES AND ARTICLE 19, SECTIONS 15301, 15304(b) AND 15311 OF CALIFORNIA CEQA GUIDELINES

AP Diaz		M. Rudnick	
H. Fujita		C. Santo Domingo	DF
V. Israel		N. Williams	

M. Rudnick
General Manager

Approved X Disapproved Withdrawn

RECOMMENDATIONS

1. Approve the final plans and specifications, substantially in the form on file in the Board of Recreation and Park Commissioners (Board) Office and as attached to this Report (Attachment No. 1), for the Chatsworth Park North – Outdoor Field Improvements (W.O. #E170488F) Project (Project);

2. Find that the proposed Project is categorically exempt from the provisions of the California Environmental Quality Act (CEQA) pursuant to Article III, Section 1, Class 1(1) [Minor exterior alterations with no or negligible expansion of use], Class 1(12) [Outdoor fencing for security and operations], Class 4(3) [New gardening, tree planting and landscaping], Class 11(3) [Placement of minor structures accessory to existing institutional facilities] and Class 11(6) [Construction of minor structures accessory to existing institutional facilities] of City CEQA Guidelines and Article 19, Sections 15301, 15304(b) and 15311 of California CEQA Guidelines, and direct Department of Recreation and Parks (RAP) staff to file a Notice of Exemption (NOE) with the Los Angeles County Clerk upon the approval of this Report; and,

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

SUMMARY

Chatsworth Park North is located at 22300 Chatsworth Street in the Chatsworth community of the City. This 24.15-acre facility provides multipurpose fields, a basketball court, and a children's play area for the use of the local community. Approximately 613 City residents live within a 1/2 mile walking distance of Chatsworth Park North.

The proposed Project is a Proposition K – L.A. for Kids Program Competitive funded project. The Project's scope of work consists of replacing the existing irrigation system with a new irrigation system, re-configuring the baseball infields to standard dimensions, grading and reseeding of the outfields, adding new trees, replacing fence fabric, replacing some of the bleachers with new bleachers, and replacing the existing drinking fountain with a new drinking fountain.

The Department of Public Works, Bureau of Engineering (BOE) Architectural Division prepared the plans and specifications. As required by Proposition K, three (3) Local Volunteer Neighborhood Oversight Committee (LVNOC) meetings were conducted. The first meeting took place on November 6, 2013 and the second and third meetings took place on December 23, 2013. The community, the LVNOC, and the Office of Council District 12 are in full support of the proposed Project.

After review by RAP and BOE staff, it was determined that the work can be performed by RAP's pre-qualified on call contractors. RAP staff recommends the proposed Project to be constructed by the on-call contractors and that BOE staff provide construction management services during the construction of these improvements.

Sufficient funds are available for construction and construction contingencies from the following funds and accounts:

FUNDING SOURCE	FUND/DEPT./ACCT. NO.
Proposition K – Year 13	43K/10/10F865
Proposition K – Year 14	43K/10/10H865
Proposition K – Year 15	43K/10/10J865
Proposition K – Year 16	43K/10/10RPBL

TREES AND SHADE

The proposed Project does not require any tree removal. Existing trees near the location of proposed improvements will be protected during the construction period. The proposed trees to be planted are ten (10) 24" box Tipuana Tipu trees and three (3) 24" box Pistacia Chinensis trees. The new canopy provided by these trees after five (5) years is expected to be 14,000 sf.

ENVIRONMENTAL IMPACT

The proposed Project consists of minor exterior alterations to an existing facility with no or negligible expansion of use, outdoor fencing for security and operations, new gardening and tree planting, placement of minor structures accessory to existing institutional facilities and construction of minor structures accessory to existing facilities. Therefore, RAP Staff recommends that the Board determines that the Project is Categorically Exempt from the provisions of the California Environmental Quality Act (CEQA) pursuant to Article III, Section 1, Class 1(1), Class 1(12), Class 4(3), Class 11(3) and Class 11(6) of the City CEQA guidelines and to Article 19, Sections 15301, 15304(b) and 15311 of the California CEQA Guidelines. RAP staff will file a Notice of Exemption (NOE) with the Los Angeles County Clerk upon the approval of this Report.

FISCAL IMPACT

The proposed Project is fully funded by the aforementioned funding sources. There is no immediate impact to RAP's General Fund.

STRATEGIC PLAN INITIATIVES AND GOALS

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

Goal No. 1: Provide safe and accessible parks
Outcome No. 1: Safe and welcoming environments at all parks

Result: The approval of this Report will provide several much needed improvements at this park, including the baseball fields, to make it safer and more welcoming.

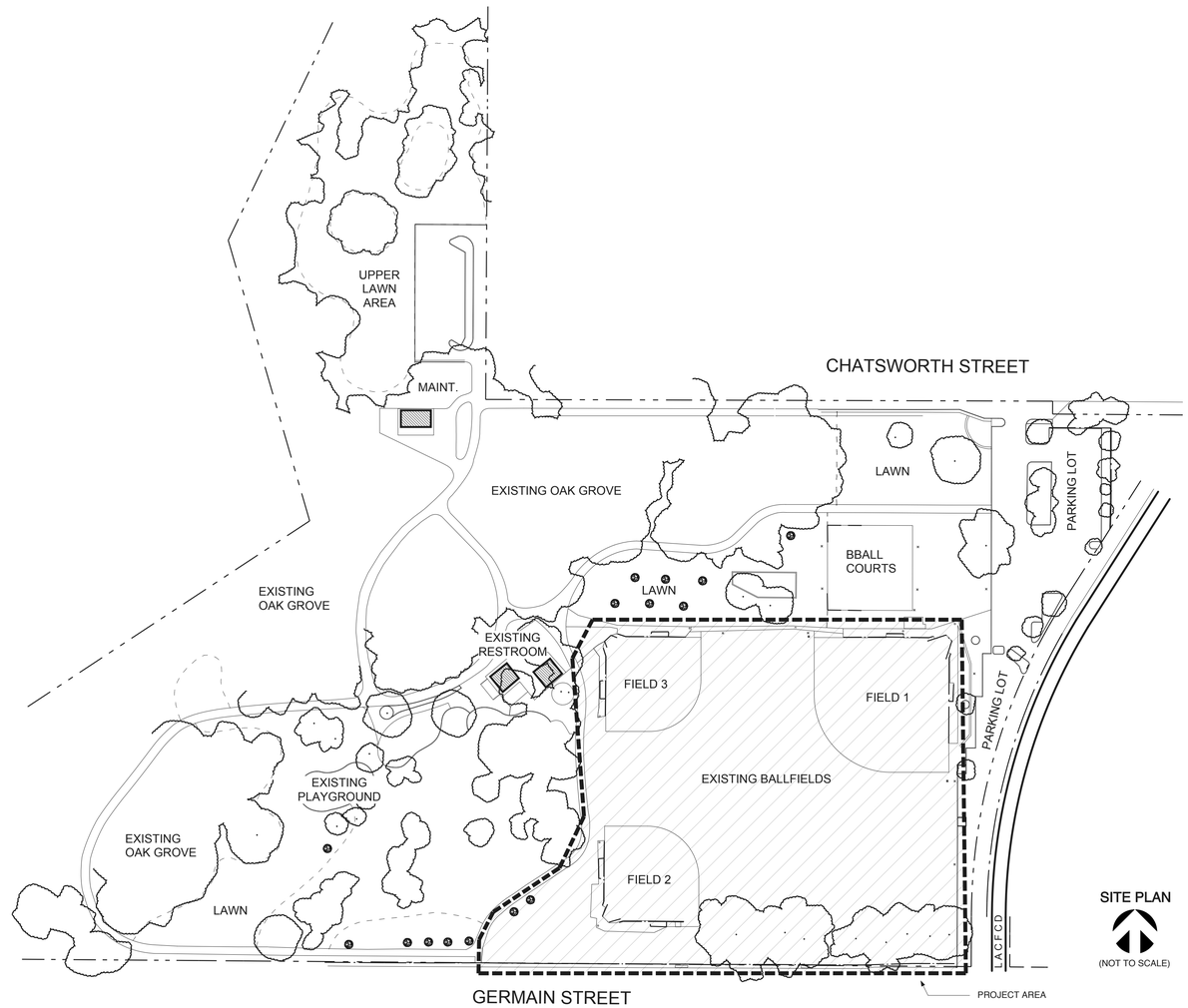
This Report was prepared by Richard Campbell, Project Manager, and reviewed by Neil Drucker, Assistant Head, Architectural Division, Bureau of Engineering, Steven Fierce, Principal Architect, Architectural Division, Bureau of Engineering, and Darryl Ford, Superintendent, Planning, Construction and Maintenance Branch, Department of Recreation and Parks.

LIST OF ATTACHMENT

Attachment No. 1 – Final Plans and Specifications for the Project dated December 2020

BUREAU OF ENGINEERING
DEPARTMENT OF PUBLIC WORKS
CITY OF LOS ANGELES

CHATSWORTH PARK NORTH - OUTDOOR FIELD IMPROVEMENTS



SITE PLAN
(NOT TO SCALE)

BUREAU OF ENGINEERING
OFFICIAL RECORD

PROJECT TEAM

CLIENT: CITY OF LOS ANGELES
DEPARTMENT OF
RECREATION & PARKS

MICHAEL A SHULL
GENERAL MANAGER

PROJECT MANAGEMENT: BUREAU OF ENGINEERING
RECREATIONAL & CULTURAL
FACILITIES PROGRAM

NEIL DRUCKER
PROGRAM MANAGER

RICHARD CAMPBELL
PROJECT MANAGER
213-847-4715

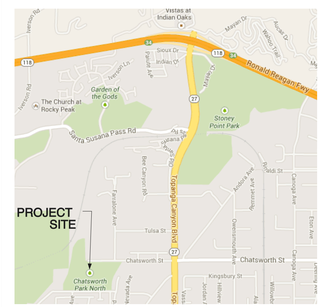
ARCHITECTURAL: BUREAU OF ENGINEERING
ARCHITECTURAL DIVISION

MAHMOOD KARIMZADEH AIA
PRINCIPAL ARCHITECT

RICHARD FISHER ASLA
LANDSCAPE ARCHITECT I

SHEET INDEX:

G001	TITLE SHEET
G002	GENERAL NOTES - TREE PROTECTION
L401	CONSTRUCTION PLAN
L402	BLEACHER GRADING & ACCESSIBILITY PLAN
L403	CONSTRUCTION DETAILS
L600	IRRIGATION SITE PLAN
L601	IRRIGATION PLAN
L602	IRRIGATION DETAILS, SHEET 1
L603	IRRIGATION DETAILS, SHEET 2
L604	IRRIGATION CONSTRUCTION NOTES



VICINITY MAP

BUREAU OF ENGINEERING
ENGINEERING
CITY OF LOS ANGELES

NO.	REVISIONS:	DATE:	BY:

BUILDING NO.

INDEX NO. RP-300115

REGISTERED PROFESSIONAL ENGINEER
GARY LEE MOORE
No. C-48446
CIVIL
STATE OF CALIFORNIA

DEPARTMENT OF PUBLIC WORKS
CITY OF LOS ANGELES

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

ACCEPTED BY:

Mahmood Karimzadeh — DATE: 12/11/2020
Mahmood Karimzadeh (Dec 11, 2020 13:56 PST)
DEPUTY CITY ENGINEER/PROGRAM MANAGER

Gary Lee Moore — DATE: 12/11/2020
Gary Lee Moore (Dec 11, 2020 14:03 PST)
CITY ENGINEER

CITY OF LOS ANGELES
CLIENT: DEPARTMENT OF RECREATION & PARKS
GENERAL MANAGER: MICHAEL A. SHULL

SHEET TITLE: TITLE SHEET

PROJECT: CHATSWORTH PARK NORTH - OUTDOOR FIELD IMPROVEMENTS

ADDRESS: 22300 W. CHATSWORTH STREET, LOS ANGELES CA 91311

WORK ORDER NO. E170488
FILE NO. 185
DRAWING NO. G001
SHEET 1 OF 10 SHEETS

PLOTTED: 12/10/20, 7:46 AM

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

REVISION DATES (DESIGN STAGE ONLY)

Sheet Version 2.2

BOARD REPORT **NO.** 21-169

DATE October 06, 2021 C.D. 12

BOARD OF RECREATION AND PARK COMMISSIONERS

SUBJECT: CHATSWORTH PARK NORTH – OUTDOOR FIELD IMPROVEMENTS (W.O. #E170488F) (PRJ21513) PROJECT – COMMITMENT OF PARK FEES – CATEGORICAL EXEMPTION FROM THE PROVISIONS OF THE CALIFORNIA ENVIRONMENTAL QUALITY ACT (CEQA) PURSUANT TO ARTICLE III, SECTION 1, CLASS 2 [REPLACEMENT OF EXISTING STRUCTURES WHERE THE NEW STRUCTURE WILL BE LOCATED ON THE SAME SITE AND HAVE SUBSTANTIALLY THE SAME PURPOSE AND CAPACITY AS THE STRUCTURE REPLACED] AND CLASS 4(1) [GRADING ON LAND WITH A SLOPE OF LESS THAN TEN PERCENT] OF CITY CEQA GUIDELINES AND ARTICLE 19, SECTIONS 15302 AND 15304(a) OF CALIFORNIA CEQA GUIDELINES

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

M. Rudnick
General Manager

Approved _____ Disapproved _____ Withdrawn _____

RECOMMENDATIONS

1. Approve the modification of the scope of work for the Chatsworth Park North – Outdoor Field Improvements (W.O. #E170488F) (PRJ21513) Project (Project) as set forth in this Report:

2. Authorize Department of Recreation and Parks (RAP) staff to commit from the following fund and work order number, a maximum of Two Hundred Fifty Thousand Dollars ($250,000.00) in Park Fees, for the Project:

FUNDING SOURCE	FUND/DEPT./ACCT. NO.	WORK ORDER NO.
Park Fees	302/89/89718H	QP001539
Park Fees	302/89/89718H	QP002207
Park Fees	302/89/89716H	QT073602
Park Fees	302/89/89716H	QT074478

3. Approve the proposed Project to be bid and constructed through the Department of Recreation and Parks (RAP) list of pre-qualified on-call contractors;

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

5. Determine that the proposed Project is categorically exempt from the provisions of the California Environmental Quality Act (CEQA) pursuant to Article III, Section 1, Class 2 [Replacement of existing structures where the new structure will be located on the same site and have substantially the same purpose and capacity as the structure replaced] and Class 4(1) [Grading on land with a slope of less than ten percent] of City CEQA Guidelines and Article 19, Sections 15302 and 15304(a) of California CEQA Guidelines and direct RAP staff to file a Notice of Exemption (NOE) with the Los Angeles County Clerk;

6. Authorize RAP's Chief Accounting Employee to prepare a check to the Los Angeles County Clerk in the amount of $75.00 for the purpose of filing an NOE; and,

7. Authorize RAP staff to make technical corrections as necessary to carry out the intent of this Report.

SUMMARY

Chatsworth Park North is located at 22300 Chatsworth Street in the Chatsworth community of the City. This 24.15-acre facility provides multipurpose fields, a basketball court, and a children's play area for the use of the local community. Approximately 613 City residents live within a one-half mile walking distance of Chatsworth Park North. Due to the facilities, features, programs, and services it provides, Chatsworth Park North meets the standard for a Community Park, as defined in the City's Public Recreation Plan.

PROJECT SCOPE

On February 18, 2021, the Board of Recreation and Park Commissioners (Board) approved the final plans for the proposed Project (Report No. 21-030). The proposed Project is a Proposition K – L.A. for Kids Program Competitive funded project. The Project's scope of work consists of replacing the existing irrigation system with a new irrigation system, re-configuring the baseball infields to standard dimensions, grading and reseeding of the outfields, adding new trees, replacing fence fabric, replacing some of the bleachers with new bleachers, and replacing the existing drinking fountain with a new drinking fountain.

The Department of Public Works, Bureau of Engineering (BOE) Architectural Division prepared the plans and specifications. As required by Proposition K, three (3) Local Volunteer Neighborhood Oversight Committee (LVNOC) meetings were conducted. The first meeting took place on November 6, 2013 and the second and third meetings took place on December 23, 2013. The community, the LVNOC, and the Office of Council District 12 are in full support of the proposed Project.

RAP staff has identified additional fencing, regrading and related ball field improvement work that is necessary at this site and that should be completed as a part of the overall proposed Project. The aforementioned additional improvements will require additional funding as requested in this Report.

PROJECT FUNDING

Previously, the Project was awarded Five Hundred Ninety Thousand, Nine Hundred Eighty-Two Dollars ($590,982.00) in Proposition K Funds.

Upon approval of this Report, Two Hundred Fifty Thousand Dollars ($250,000.00) in Park Fees can be committed to the proposed Project.

The total amount of funding available for the proposed Project is Eight Hundred Forty Thousand, Nine Hundred Eighty-Two ($840,982.00).

The anticipated pre-qualified on-call contracts will be for Park Facility Construction. The budget contingency for the Park Facility Construction contracts will be One Hundred Six Thousand Dollars ($106,000.00).

These Park Fees were collected within five (5) miles of Chatsworth Park North, which is the standard distance for the allocation of Park Fees for community recreational facilities pursuant to Los Angeles Municipal Code Section 12.33 E.3.

FUNDING SOURCE MATRIX

Source	**Fund/Dept/Acct**	**Amount**	**Percentage**
Proposition K –Year 13	43K/10/10F865	$7,283.00	1%
Proposition K –Year 14	43K/10/10H865	$20,000.00	2%
Proposition K –Year 15	43K/10/10J865	$221,000.00	26%
Proposition K –Year 16	43K/10/10RPBL	$342,699.00	41%
Park Fees	302/89/89716H	$60,751.02	7%
Park Fees	302/89/89718H	$189,248.98	23%
Total		$840,982.00	100%

PROJECT CONSTRUCTION

RAP staff has determined that sufficient funding has been identified and construction of the proposed Project will begin in Winter 2021.

TREES AND SHADE

Per Report No. 21-030, no trees were proposed to be removed as a part of the proposed Project. The proposed trees to be planted are ten (10) 24" box Tipuana Tipu trees and three (3) 24" box Pistacia Chinensis trees. The new canopy provided by these trees after five (5) years is expected to be 14,000 sf.

ENVIRONMENTAL IMPACT

The proposed Project includes items that are additional to the project the Board approved on February 18, 2021 (Report 21-030) and consists of replacement of existing structures where the new structure will be located on the same site and have substantially the same purpose and capacity as the structure replaced and grading on land with a slope of less than ten percent (10%). As such, 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 III, Section 1, Class 2 and Class 4(1) of City CEQA Guidelines and Article 19, Sections 15302 and 15304(a) of California CEQA Guidelines. RAP staff will file an NOE with the Los Angeles County Clerk upon the Board's approval.

FISCAL IMPACT

The approval of this commitment of Park Fees will have no fiscal impact on RAP's General Fund. The estimated costs for the design, development, and construction of the proposed park improvements are anticipated to be funded by Proposition K, Park Fees or funding sources other than RAP's General fund. The maintenance of the proposed park improvements can be performed by current staff with no overall impact to existing maintenance service at this facility.

STRATEGIC PLAN INITIATIVES AND GOALS

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

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

Result: Improvements to the ballfields will enhance the park users' experience.

This report was prepared by Meghan Luera, Management Analyst, Planning, Maintenance and Construction Branch.

Attachment No. 3

DEPARTMENT OF RECREATION AND PARKS

BOARD OF COMMISSIONERS

SYLVIA PATSAOURAS
PRESIDENT

LYNN ALVAREZ
VICE PRESIDENT

TAFARAI BAYNE
NICOLE CHASE
JOSEPH HALPER

HAROLD ARRIVILLAGA
BOARD SECRETARY
(213) 202-2640

CITY OF LOS ANGELES
CALIFORNIA

ERIC GARCETTI
MAYOR

MICHAEL A. SHULL
GENERAL MANAGER

ANTHONY-PAUL (AP) DIAZ, ESQ.
EXECUTIVE OFFICER &
CHIEF OF STAFF

CATHIE SANTO DOMINGO
ASSISTANT GENERAL MANAGER

JIMMY KIM
ACTING ASSISTANT GENERAL MANAGER

MATTHEW RUDNICK
ACTING ASSISTANT GENERAL MANAGER

(213) 202-2633 FAX (213) 202-2614

October 13, 2021

Evergreen Environment Inc.
8609 Mission Boulevard
Riverside, CA 92509

Attn: Juan Sandoval

NOTICE TO PROCEED – CHATSWORTH PARK NORTH – OUTDOOR FIELD IMPROVEMENTS – PARK FACILITY CONSTRUCTION, RETROFIT, MAINTENANCE, AND/ OR REPAIRS PROJECT (PRJ21513) – CONTRACT NO. 3807

Please be advised that your bid proposal dated September 13, 2021, in the amount not-to-exceed $705,273.51(including Add Alt) for the Chatsworth Park North – Outdoor Field Improvements – Park Facility Construction, Retrofit, Maintenance, and/ or Repairs – (PRJ21513) project is acceptable to the Department of Recreation and Parks. Evergreen Environment Inc. is authorized to proceed with the approved work included in your proposal as of the date of this letter, under Contract No. 3807. The project is located at 22330 Chatsworth Street, Los Angeles, CA 91311.

Scope of Work

- Field Improvements per Scope of work issued with NFB 8/20/2021, Addendum No.1 issued 8/30/2021, Addendum No.2 issued 8/31/2021, Addendum No.4 issued 9/8/2021, RFI No.1 issued 9/1/2021, RFI No.2 issued 9/2/2021, and RFI No.3 issued 9/9/2021.
- Remove & Dispose of (2) Exiting Bleachers at Field 1, and Remove Asphalt and Concrete Paving Beneath per Plans.
- Remove & Replace Chain Link Fabric & Hardware for Fences, Dugouts, and Backstop on Field 1.
- Provide & Install (2) 35' x 5-Row Bleachers at Field 1.
- Remove & Replace (1) Existing Drinking Fountain at Field 1.
- Install New Structural Concrete Slabs for Bleachers at Field 1.
- Install New Concrete Paving at Field 1.
- Install New Concrete Curb at Field 1.
- Install New Asphalt ADA Path to Bleachers.
- Provide New ADA Parking Stall Striping & Signage, Remove and Replace Existing Stall Striping.

- Extend and re-Shape Existing Infields. Excavate & Remove Existing Soil, Place 4" of New Infield Material.
- Regrade Around Infield Edge of Field #2 & #3.
- Install New Irrigation System.
- Replace, Renovate & Repair Existing Turf: Overseed Turf and Level Holes/Depressions Where Required, Repair from trenching.
- New 24" Box Tree and 5G Shrub Planting & Mulching.

.....$549,831.59

Added Alternate No.1.....$20,078.88

- Remove and Replace Wooden Backstop for Field 1.
- Re-Grade Existing Infield and Re-Fresh Surface with 1" New Angel Mix.
- Replace Existing Bases, Anchors and Pitching Plates for 90' & 60' Field.

Added Alternate No.2.....$9,584.18

- Re-Grade Existing Infield and Re-Fresh Surface with 1" New Angel Mix.
- Replace Existing Bases, Anchors and Pitching Plates for 60' Field.

Added Alternate No.3.....$9,014.58

- Re-Grade Existing Infield and Re-Fresh Surface with 1" New Angel Mix.
- Replace Existing Bases, Anchors and Pitching Plates for 60' Field.

Alternate Addendum.....$116,764.28

- Grade Entire Field Area to Attain Flow and Drainage.
- Soil Prep and Re-Seed.
- Remove & Replace Chain Link Fabric & Hardware for Fences, Dugouts, and Backstop on Field 2.
- Remove & Replace Chain Link Fabric & Hardware for Fences, Dugouts, and Backstop on Field 3.

All work shall be performed under the terms and conditions outlined in your Contract No. 3807. In accordance with the terms of your Contract No. 3807, contractor shall invoice upon completion of job by submitting two (2) copies of the invoice which details the work performed in accordance to the original scope of work and any approved change orders within 30 days of completion of service. Invoice must include service dates and photos.

All construction must comply with the Department of Recreation and Parks' Tree Protection Specifications.

Invoices shall be submitted via email to:

Jacqueline.g.lopez@lacity.org, Youngin.kang@lacity.org, and Rachel.Lu@lacity.org

Contractor must submit all certified payroll documents to the Department of Public Works, Bureau of Contract Administration, Office of Contract Compliance for all City of Los Angeles public works projects. Please do not submit payrolls to DIR unless you are directed to.

Certified payroll documents shall be submitted electronically to:

Department of Public Works, Bureau of Contract Administration
Online Certified Payroll System (OCPS)

https://bca.lacity.org/cps/LogIn.cfm

As a reminder, any sub-contractor performing work or delivering materials to City property must comply with the City of Los Angeles insurance requirements.

Any questions regarding this project are to be directed to Jimmy Newsom, at (818) 679-1453 jimmy.newsom@lacity.org, Jacqueline Lopez, at (213) 675-2857 jacqueline.g.lopez@lacity.org, and/ or Project Managers, Richard Campbell, richard.campbell@lacity.org, at (310) 869-7981 and/ or Richard Fisher, richard.fisher@lacity.org , at (213) 485-4716.

Sincerely,

MICHAEL A. SHULL
General Manager

C. Santo Domingo

CATHIE SANTO DOMINGO, P.E.
Assistant General Manager
Planning, Construction, & Maintenance Branch

MAS/CSD/JN:jl

cc: Andrea Chisholm, Bureau of Contract Administration
RAP, Grants Accounting (MS 625)
Jesus Bartolome, RAP, Accounting
Electronic File – Chatsworth Park North – Outdoor Field Improvements
Reading File – Chatsworth Park North – Outdoor Field Improvements

Mar-26-2025

City of Los Angeles - Department of Public Works - Bureau of Engineering
Chatsworth Park North – Outdoor Field Improvement
W.O. No. E170488F

CHANGE ORDER LOG

You may click on the record #, date or amount hyperlinks to view the relevant record that's associated with the Change Order.

CO No.	COR No.	Subject	Payment Type	CO Cat.	COIN Date	COIN Est. ($)	PCO ECO T&M Date	Not to Exceed ($)	GC Proposal ($)	GC Proposal Date	City Estimate ($)	Agreed Amount ($)	Agreed Date	CO Status	CO Date	Time Ext. Cal. Days	Comments
001	001-R0	Remove and Replace Tree Well	LS	S	02/24/22	$5,000.00	02/24/22		$1,920.43	02/17/22	$1,778.85	$1,900.00	03/01/22	EXEC	03/21/22	0	
002	003-R0	Infield Mix Inadequate Soil Profile	LS	S	03/01/22	$50,000.00	03/02/22		$37,140.55	02/17/22	$34,195.71	$36,823.00	03/22/22	EXEC	03/24/22	0	
003	004-R0	Drinking Fountain Sump Detail	LS	E	03/09/22	$5,000.00	03/09/22		$1,563.07	03/01/22	$1,118.18	$1,560.00	03/22/22	EXEC	03/24/22	0	
004	005-R0	Catch Basin Drain Continuation	LS	E	03/31/22	$5,000.00	04/19/22		$2,279.37	03/22/22	$2,221.00	$2,279.00	05/31/22	EXEC	06/27/22	0	
005	006-R0	Automatic Irrigation to Treewell	LS	U	03/31/22	$5,000.00	04/19/22		$2,135.90	03/22/22	$2,079.00	$2,136.00	05/31/22	EXEC	06/27/22	0	
006	007-R0	Additional Concrete	LS	E	03/31/22	$5,000.00	04/19/22		$3,467.36	03/22/22	$3,384.00	$3,467.00	06/13/22	EXEC	06/27/22	0	
007	009-R0	Chainlink Fence	LS	U	06/14/22	$5,000.00	06/14/22		$6,721.26	11/02/22	$6,649.00	$6,721.00	11/30/22	EXEC	12/13/22	0	
008	010-R0	LADBS Correction Work for Final Sign-Off	LS	S	11/14/23	$25,000.00	11/20/23		$10,280.44	11/14/23	$10,071.00	$10,071.00	11/28/23	EXEC	11/29/23	0	

Original Contract	**$705,273.51**
Original Contingency	**$70,527.00**
Revised Contingency	**--**
Executed COs & UCOs	**$64,957.00**
CO Percentage	**9.21%**
Revised Contract	**$770,230.51**
Remaining Contingency	**$5,570.00**

Time Extension	**0**	**CD's**
Approved Comp. CD's	**0**	
Approved Non Comp. CD's	**0**	

Payment Type:
LS: Lump Sum
TM: Time & Material
CAN: Canceled

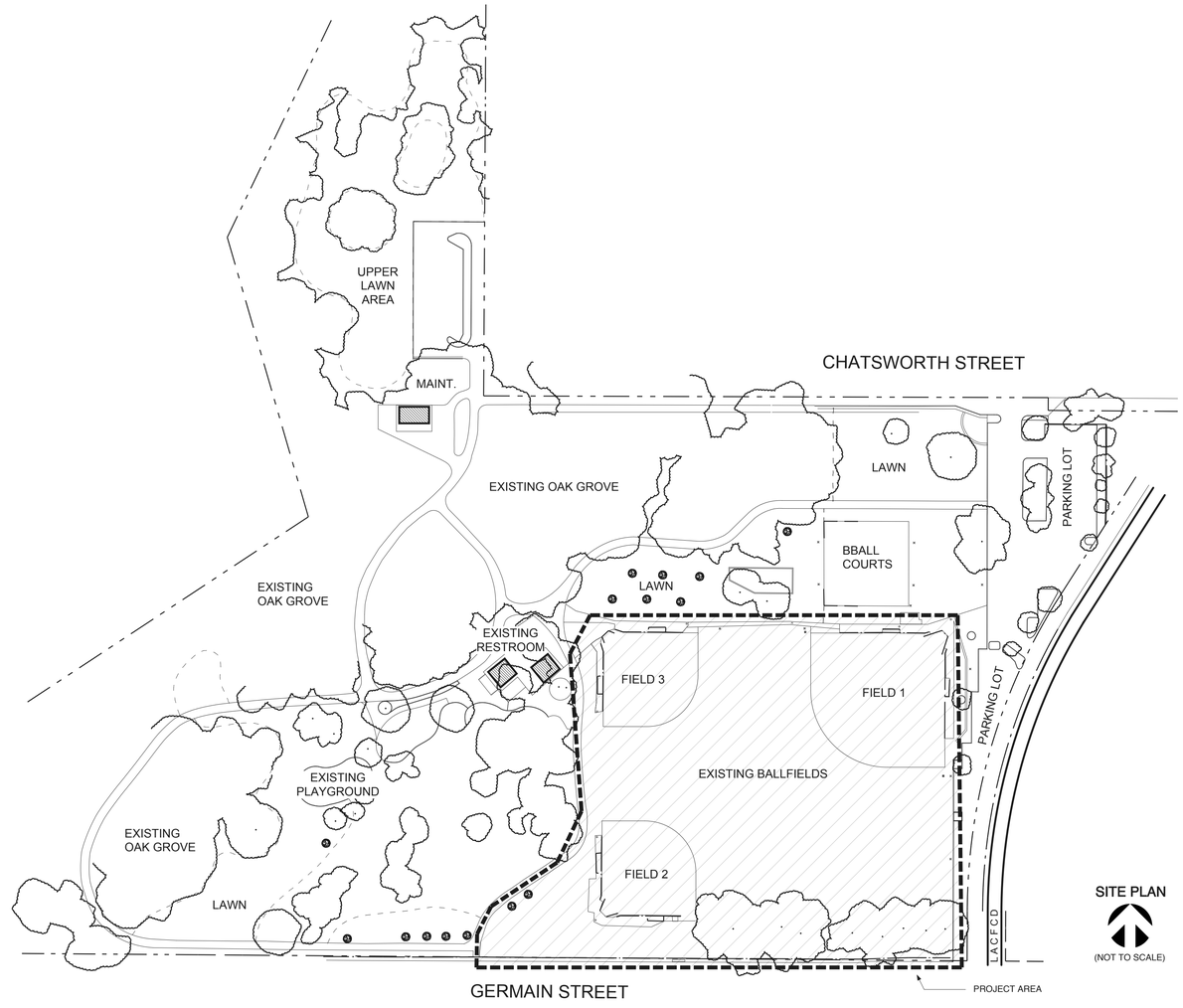
CO Status:
EXEC: Executed
NEG: Negotiated
UNR: Unresolved
CAN: Canceled

CO Category:	**U: Unforeseen**	**2**	**$8,857.00**
	E: Errors & Omissions	**3**	**$7,306.00**
	S: Change in Scope	**3**	**$48,794.00**
	Executed COs	**8**	**$64,957.00**
	Executed UCOs	**0**	**$0.00**
	Forecasted COs	**0**	**$0.00**
	Canceled COs	**0**	**--**

BUREAU OF ENGINEERING
DEPARTMENT OF PUBLIC WORKS
CITY OF LOS ANGELES

Attachment No. 5

CHATSWORTH PARK NORTH - OUTDOOR FIELD IMPROVEMENTS



SITE PLAN
(NOT TO SCALE)

BUREAU OF ENGINEERING OFFICIAL RECORD

PROJECT TEAM

CLIENT: CITY OF LOS ANGELES
DEPARTMENT OF
RECREATION & PARKS

MICHAEL A SHULL
GENERAL MANAGER

PROJECT MANAGEMENT: BUREAU OF ENGINEERING
RECREATIONAL & CULTURAL
FACILITIES PROGRAM

PAUL TSENG
PROGRAM MANAGER

RICHARD CAMPBELL
PROJECT MANAGER
213-847-4715

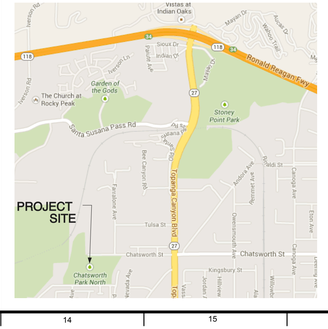
ARCHITECTURAL: BUREAU OF ENGINEERING
ARCHITECTURAL DIVISION

STEVEN FIERCE AIA
PRINCIPAL ARCHITECT

RICHARD FISHER ASLA
LANDSCAPE ARCHITECT I

SHEET INDEX:

G001	TITLE SHEET
G002	GENERAL NOTES - TREE PROTECTION
L401	CONSTRUCTION PLAN
L402	BLEACHER GRADING & ACCESSIBILITY PLAN
L403	CONSTRUCTION DETAILS
L600	IRRIGATION SITE PLAN
L601	IRRIGATION PLAN
L602	IRRIGATION DETAILS, SHEET 1
L603	IRRIGATION DETAILS, SHEET 2
L604	IRRIGATION CONSTRUCTION NOTES



VICINITY MAP

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

REVISION DATES (DESIGN STAGE ONLY)

Sheet Version 2.2

BUREAU OF ENGINEERING
ENGINEERING
CITY OF LOS ANGELES

NO.	REVISIONS	DATE	BY

BUILDING NO.

INDEX NO. RP-300115

REGISTERED PROFESSIONAL ENGINEER
GARY LEE MOORE
No. C-48446
CIVIL
STATE OF CALIFORNIA

DEPARTMENT OF PUBLIC WORKS
GARY LEE MOORE, P.E., ENV SP — CITY ENGINEER

ACCEPTED BY:
Deborah Weintraub — Electronically Signed by Deborah Weintraub on 05/24/2021 10:16:01 AM — DATE: 05/24/2021

DEPUTY CITY ENGINEER/PROGRAM MANAGER — DATE:

CITY ENGINEER — DATE:

CITY OF LOS ANGELES
CLIENT: DEPARTMENT OF RECREATION & PARKS
GENERAL MANAGER: MICHAEL A. SHULL

SHEET TITLE: TITLE SHEET

PROJECT: CHATSWORTH PARK NORTH - OUTDOOR FIELD IMPROVEMENTS

ADDRESS: 22300 W. CHATSWORTH STREET, LOS ANGELES CA 91311

WORK ORDER NO. E170488
FILE NO. 185
DRAWING NO. G001
SHEET 1 OF 10 SHEETS

PLOTTED: 5/21/21, 2:19 PM

TREE PROTECTION REQUIREMENTS: All trees to remain in place within the limits of work, or whose dripline is encroached upon either directly or indirectly by construction shall be protected per the following requirements.

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:

1. **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:

   (a) Single trunk trees - multiply the trunk diameter in inches, measured 4.5' above grade, by 1.5 feet.
   (b) Multi trunk trees - multiply the sum of the diameters of all trunks in inches, measured 4.5' above grade, by 1.5 feet.
   (c) Palm trees - 5' from the base of the trunk.
   (d) If a TPZ is delineated on the plans, the size and shape shown on the plans shall supercede the above requirements.

2. The contractor shall install a 5' high temporary chain link fence with one pedestrian access gate along the boundary of the TPZ. See plans for temporary chain link fence detail and signage.

3. 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.

4. 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.

5. Within the TPZ, the contractor shall adhere to the following requirements, including, but not limited to:
   (a) No stockpiling or storage of any material, debris, or soil.
   (b) No storage of any construction equipment.
   (c) No vehicular access.
   (d) No un-approved trenching, excavation or disturbance of soil will be allowed.
   (e) No objects of any kind shall be attached to tree trunks.
   (f) 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 the Monitoring arborist, and soil backfilled immediately.

6. 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.

7. 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.

8. 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 to provide detectable soil moisture at a minimum depth of 18" using a soil probe.

9. 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.

10. Any of the following Southern California native tree species fall under Ordinance No.177404 of the Los Angeles Municipal Code: (a.) 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*); (b.) Southern California Black Walnut (*Juglans californica var. californica*); (c.) Western Sycamore (*Platanus racemosa*);(d.) California Bay (*Umbellularia californica*). Contractor shall comply with the requirements of the ordinance found at: http://cityplanning.lacity.org/Code_Studies/Other/ProtectedTreeOrd.pdf

11. 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.

PROJECT DESCRIPTION

NEW PARK IMPROVEMENTS TO INCLUDE BUT NOT LIMITED TO THE FOLLOWING:

1. DEMOLITION AND DISPOSAL OF EXISTING CONCRETE AND ASPHALT PAVING
2. DEMOLITION AND DISPOSAL OF EXISTING BLEACHERS
3. DEMOLITION AND DISPOSAL OF EXISTING DRINKING FOUNTAIN
4. INSTALLATION OF NEW CONCRETE PAVING.
5. INSTALLATION OF NEW BLEACHERS.
6. INSTALLATION OF NEW DRINKING FOUNTAINS.
7. INSTALLATION OF NEW IRRIGATION SYSTEMS.
8. RENOVATION OF EXISTING TURF FIELDS.
9. RENOVATION OF EXISTING INFIELDS.
10. TREE AND SHRUB PLANTING.

BID ALTERNATE LEGEND

(SEE INSTRUCTIONS TO BIDDERS)

1. **FIELD 1**: REPLACE EXISTING BASES, ANCHORS AND PITCHING PLATES FOR 90' & 60' FIELD. RE-GRADE EXISTING INFIELD AND RE-FRESH SURFACE WITH 1" NEW DG MATERIAL. REMOVE AND REPLACE WOODEN BACKSTOP.
2. **FIELD 2**: RE-GRADE EXISTING INFIELD AND RE-FRESH SURFACE WITH 1" NEW DG MATERIAL. REPLACE EXISTING BASES, ANCHORS AND PITCHING PLATES FOR 60' FIELD.
3. **FIELD 3:** RE-GRADE EXISTING INFIELD AND RE-FRESH SURFACE WITH 1" NEW DG MATERIAL. REPLACE EXISTING BASES, ANCHORS AND PITCHING PLATES FOR 60' FIELD.

STANDARD ABBREVIATIONS

AWG	AMERICAN WIRE GAUGE	ENCL	ENCLOSURE	PA	PLANTING AREA
ABS	ACRYLONITRILE BUTADIENE STYRENE	EOC	END OF CURB	POB	POINT OF BEGINNING
ADJ	ADJACENT	EQ	EQUAL	POC	POINT OF CONNECTION
ALT	ALTERNATE	EX	EXISTING	PRC	POINT OF REVERSE CURVE
ASTM	AMERICAN SOCIETY FOR TESTING MATERIALS	(XXX.XX)	EXISTING ELEVATION	PVC	POLY VINYL CHLORIDE
AMPS	AMPERES	EJ	EXPANSION JOINT	PW	POTABLE WATER
	ANGLE	FOW	FACE OF WALL	LB(S)	POUND(S)
APPROX	APPROXIMATE	FT	FEET	PSI	POUNDS PER SQUARE INCH
AC	ASPHALT CONCRETE	FB	FIELD BOOK	PP	POWER POLE
@	AT	FIN	FINISH	PL	PROPERTY LINE
AD	ATRIUM DRAIN	FG	FINISH GRADE	PB	PULL BOX
BPU	BACKFLOW PREVENTION UNIT	FS	FINISH SURFACE	QCV	QUICK COUPLER VALVE
BOC	BEGINNING OF CURVE	FIN	FINISHED	R	RADIUS
BM	BENCH MARK	FF	FINISHED FLOOR ELEVATION	RP	REDUCED PRESSURE BACKFLOW DEVICE
B/W	BOTH WAYS	FG	FINISHED GRADE	REF LINE	REFERENCE LINE
BC	BOTTOM OF CURB	FS	FINISHED SURFACE	REINF	REINFORCED
BS	BOTTOM OF STEP	FD	FLOOR DRAIN	RCP	REINFORCED CONCRETE
BW	BOTTOM OF WALL	FL	FLOW LINE	RCV	REMOTE CONTROL VALVE
BDRY	BOUNDARY	GAL	GALLON(S)	REQD	REQUIRED
BLDG	BUILDING	GPM	GALLONS PER MINUTE	ROW	RIGHT OF WAY
CB	CATCH BASIN	GALV	GALVANIZED	SS	SANITARY SEWER
CL	CENTER LINE	GV	GATE VALVE	SCH	SCHEDULE
CC	CENTER TO CENTER	GA	GAUGE	SL	SCORE LINE
CLF	CHAIN LINK FENCE	GB	GRADE BREAK	SHT	SHEET
CO	CLEAN OUT	GC	GROUND COVER	SOV	SHUT OFF VALVE
C	COMPACT	HP	HIGH POINT	SIN	SIGNAL
CONC	CONCRETE	HPS	HIGH POINT OF SWALE	SPEC(S)	SPECIFICATION(S)
CMU	CONCRETE MASONRY UNIT	HOR	HORIZONTAL	SF	SQUARE FEET
CONST	CONSTRUCT	HB	HOSE BIB	STD	STANDARD
CONT	CONTINUOUS	IN	INCH	SSPWC	STANDARD SPECIFICATION FOR PUBLIC WORKS CONSTRUCTION
CJ	CONTROL JOINT	ID	INSIDE DIAMETER	STA	STATION
CSP	CORRUGATED STEEL PIPE	IE	INVERT ELEVATION	SD	STORM DRAIN
CF	CUBIC FOOT	IRR	IRRIGATION	TC	TOP OF CURB
CY	CUBIC YARD	J	JOINT	TF	TOP OF FOOTING
CF	CURB FACE	LS	LANDSCAPE	TG	TOP OF GRATE
DD	DECK DRAIN	LA	LANDSCAPE ARCHITECT	TP	TOP OF PAVING
DG	DECOMPOSED GRANITE	LF	LINEAL FEET	TOS	TOP OF SAND
DEMO	DEMOLITION	LP	LOW POINT	TS	TOP OF STEP
DOT	DEPARTMENT OF TRANSPORTATION	MAINT	MAINTENANCE	TW	TOP OF WALL
DWP	DEPARTMENT OF WATER AND POWER	MH	MANHOLE	TOW	TOP OF WALL
DET	DETAIL	MFG	MANUFACTURER	TYP	TYPICAL
DIA	DIAMETER	MAX	MAXIMUM	VERT	VERTICAL
DN	DOWN	MIN	MINIMUM	V	VOLTS
DWG	DRAWING	MISC	MISCELLANEOUS	WM	WATER METER
DF	DRINKING FOUNTAIN	XXX.XX	PROPOSED CONSTRUCTION ELEVATION	WPJ	WEAKENED PLANE JOINT
DWY	DRIVEWAY	NIC	NOT IN CONTRACT	WWM	WELDED WIRE MESH
DIP	DUCTILE IRON PIPE	NTE	NOT TO EXCEED	W/	WITH
EA	EACH	NTS	NOT TO SCALE	W/O	WITHOUT
EFF	EFFLUENT WATER	NO. or #	NUMBER	WO	WORK ORDER
ELECT	ELECTRIC/ELECTRICAL	OC	ON CENTER	YD(S)	YARD(S)
EL	ELEVATION	OD	OUTSIDE DIAMETER		

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.

REVISION DATES (DESIGN STAGE ONLY)

Sheet Version 2.2

BUREAU OF ENGINEERING
ENGINEERING
CITY OF LOS ANGELES

NO.	REVISIONS	DATE	BY
1			
2			
3			
4			

BUILDING NO.

INDEX NO. RP-300115

LICENSED LANDSCAPE ARCHITECT RICHARD W. FISHER ASLA STATE OF CALIFORNIA Exp. 9-30-21

DEPARTMENT OF PUBLIC WORKS
CITY OF LOS ANGELES

CITY ENGINEER	DATE
GARY LEE MOORE, P.E., ENV SP	11/07/19
LANDS. ARCHITECT: RICHARD W. FISHER ASLA CA LIC. #2060	11/07/19
DESIGNED BY: RICHARD W. FISHER ASLA	11/07/19
DRAWN BY: RICHARD W. FISHER ASLA	11/07/19
CHECKED BY: JANE ADRIAN	11/07/19
APPROVED BY: MAHMOOD KARIMZADEH AIA, PRINCIPAL ARCHITECT	

CLIENT: DEPARTMENT OF RECREATION & PARKS
GENERAL MANAGER: MICHAEL A. SHULL

SHEET TITLE: GENERAL NOTES

PROJECT: CHATSWORTH PARK NORTH - OUTDOOR FIELD IMPROVEMENTS

ADDRESS: 22300 W. CHATSWORTH STREET, LOS ANGELES CA 91311

WORK ORDER NO. E170488
FILE NO. 185
DRAWING NO. G002
SHEET 2 OF 10 SHEETS

PLOTTED: 4/21/21, 2:12 PM

CONSTRUCTION LEGEND

EXISTING CONCRETE OR ASPHALT PAVING TO REMAIN, TYP.

NEW STRUCTURAL SLAB FOR BLEACHERS: 5" THICK WITH #3 REBAR AT 18" O.C. BOTH WAYS, TYP. PROVIDE 1" DEEP SCORE LINES AS NECESSARY TO PREVENT CRACKING. J1 & J5/L604

NEW CONCRETE PAVING PER DETAIL J1/L604. PROVIDE EXPANSION JOINTS WHERE INDICATED, AND 1" DEEP SCORE LINES AS NECESSARY TO PREVENT CRACKING

EXISTING INFIELD SURFACE TO REMAIN, TYP.

REMOVE 4" OF EXISTING MATERIAL AND REPLACE WITH APPROVED INFIELD MIX TO MATCH EXISTING, TYP.

ADD TOPSOIL FILL MATERIAL AS NEEDED TO PROVIDE A SMOOTH TRANSITION FROM INFIELD SURFACE TO OUTFIELD TURF, TYP. RESEED FILL AREAS PER TURF REPAIR NOTES.

TURF REPAIR AND RENOVATION:

1.) EXISTING TURF: DO NOT REMOVE TURF SOD OR APPLY HERBICIDE TO TURF SHOWN IN AREAS WHERE THE EXISTING TURF IS TO REMAIN. PRIOR TO HYDROSEEDING, MOW OR LIGHTLY SCRAPE ALL TURF AREAS TO REMOVE DEAD MATERIAL AND THATCH. DO NOT REMOVE ANY TOPSOIL OR ROOTS.

2.) IN ALL TURF AREAS WHERE THE EXISTING GRADE IS NOT SMOOTH AND CONTINUOUS (+/- 1/2"), REMOVE MOUNDS, AND FILL DEPRESSIONS WITH TOPSOIL TO RESTORE A SMOOTH AND CONTINUOUS GRADE.

3.) ALL AREAS WHERE THE EXISTING TURF IS DAMAGED BY TRENCHING, GRADING OR OTHER CONSTRUCTION ACTIVITY SHALL BE REPAIRED BY RESTORING THE EXISTING GRADE AND HYDROSEEDING PER BELOW OR REPLACING THE ORIGINAL SOD.

4.) ANY EXISTING TURF AREAS LARGER THAN 3' BY 3' WHERE THE EXISTING TURF IS LESS THAN 50% COVERAGE SHALL BE REPAIRED BY RESTORING A LEVEL AND CONSISTENT GRADE (IF REQUIRED) AND HYDROSEEDING PER BELOW.

5.) UPON THE END OF CONSTRUCTION AND MAINTENANCE PERIOD, THE ENTIRE TURF AREA SHALL HAVE FULL COVERAGE OF TURF. SEE PLANTING NOTES PER SHEET L603.

TURF REPAIR AND RENOVATION METHOD:
IF SEEDING OF TURF AREAS IS DONE DURING **COOL-SEASON** (BETWEEN **OCTOBER 1ST AND MARCH 1ST**) MIX SHALL BE:

THE LAWN SEED MIX FOR LAWN PLANTING SHALL CONTAIN THE FOLLOWING MATERIALS AT THE RATES SPECIFIED:

A. MULCH FIBER - 1,500 LBS./ACRE
B. STABILIZER - 120 LBS./ACRE
C. FERTILIZER - HYDROBLEND, AT 3,000 LBS. PER ACRE
D. SEED BY WEIGHT:
280 LB./ACRE STOVERS 'GRAND SLAM' RYEGRASS
60 LB./ACRE STOVERS 'PRINCESS" BERMUDA GRASS
60 LB./ACRE STOVERS 'WHITTET' IMPROVED KIKUYUGRASS

IF SEEDING OF TURF AREAS IS DONE DURING **WARM-SEASON** (BETWEEN **MARCH 1ST AND OCTOBER 1ST**) MIX SHALL BE:
THE LAWN SEED MIX FOR LAWN PLANTING SHALL CONTAIN THE FOLLOWING MATERIALS AT THE RATES SPECIFIED:

A. MULCH FIBER - 1,500 LBS./ACRE
B. STABILIZER - 120 LBS./ACRE
C. FERTILIZER - HYDROBLEND, AT 3,000 LBS. PER ACRE
D. SEED BY WEIGHT:
100 LB./ACRE STOVERS 'GRAND SLAM' RYEGRASS
75 LB./ACRE STOVERS 'PRINCESS" BERMUDA GRASS
75 LB./ACRE STOVERS 'WHITTET' IMPROVED KIKUYUGRASS

DEMOLITION & GRADING NOTES:

1. REMOVE ALL EXISTING BLEACHERS, CHAIN LINK FENCE FABRIC AND WOODEN BACKSTOP MATERIAL ON FIELD 1 AND DISPOSE OF PROPERLY OFF-SITE.

2. REMOVE ASPHALT PAVING WHERE INDICATED AND DISPOSE OF PROPERLY OFF-SITE.

3. CONTRACTOR SHALL PROPERLY DISPOSE OF ALL EXCESS SOIL AND REMOVED TURF MATERIAL OFF-SITE.

4. CONTRACTOR SHALL BE RESPONSIBLE FOR IMPORT OF ANY ADDITIONAL TOPSOIL REQUIRED TO COMPLETE THE WORK.

BID ALTERNATE LEGEND: (SEE SHEET GOO2

1 BID ALTERNATE 1.
2 BID ALTERNATE 2
3 BID ALTERNATE 3

NEW SLOPE PLANTING: 42-5G AGAVE 'BLUE GLOW'. MULCH PLANTED AREA WITH 3" LAYER OF WOOD CHIPS MULCH, TYP. A1/L603

LIMIT OF WORK

EDGE OF EXISTING INFIELD

FIELD #3
60' BASEPATH

3 REMOVE 1" OF EXISTING INFIELD MATERIAL AND INSTALL 1" OF NEW INFIELD MATERIAL ON SURFACE AND RE-GRADE TO PROVIDE UNIFORM SURFACE WITH ADEQUATE DRAINAGE.

EXTEND AND RE-SHAPE EXISTING INFIELD FOR 60' DIAMOND PER DETAIL J5/L603.

Field 1-Bottom Rail
80' + 80'+ 26'=186 ft

3-24" BOX PISTACIA CHINENSIS (CHINESE PISTACHE) PER DETAIL J1/L603

3 **FIELD 3**: REPLACE EXISTING PITCHER'S PLATE WITH (1) BOLCO STEP-DOWN' PITCHERS RUBBER, YOUTH SIZE 4" X 18" SKU# 1236392. REPLACE EXISTING BASES AND GROUND ANCHORS WITH: 'HOLLYWOOD IMPACT' BASE (SKU# 1236439) WITH GROUND ANCHORS (SKU# 1236507) AND BASE PLUGS (SKU# BBRPLUGS). REPLACE EXISTING HOME PLATE WITH INSTALL 'HOLLYWOOD' HOME PLATE, SKU# 1236477. AVAILABLE FROM: BSNSPORTS.COM, (800) 856-3488. INSTALL PER MANUFACTURER'S INSTRUCTIONS.

REMOVE 4" OF EXISTING MATERIAL AND REPLACE WITH APPROVED INFIELD MIX TO MATCH EXISTING INFIELD, TYP.

ADD TOPSOIL FILL MATERIAL AS NEEDED TO PROVIDE A SMOOTH TRANSITION FROM INFIELD SURFACE TO OUTFIELD TURF, TYP. RESEED FILL AREAS PER TURF REPAIR NOTES.

Bottom Rail: Field 2+3
186'+192'=378 ft

CO 7 Chainlink Fence - Install 380 LF of bottom rail for the chain link fence at Fields 2 and 3.

10-24" BOX TIPUANA TIPU (TIPU TREE) PER DETAIL J1/L603

1 **FIELD 1**: REPLACE EXISTING PITCHER'S PLATES ***FOR BOTH 90' AND 60' BASEPATH LAYOUTS*** WITH (1) BOLCO STEP-DOWN' PITCHERS RUBBER, STANDARD SIZE 6" X 24" SKU# 1236385 AND (1) BOLCO STEP-DOWN' PITCHERS RUBBER, YOUTH SIZE 4" X 18" SKU# 1236392. REPLACE EXISTING BASES AND GROUND ANCHORS WITH: 'HOLLYWOOD IMPACT' BASE (SKU# 1236439) WITH GROUND ANCHORS (SKU# 1236507) AND BASE PLUGS (SKU# BBRPLUGS) - ***PROVIDE BASE ANCHORS FOR BOTH 90' AND 60' BASEPATH LAYOUTS***. REPLACE EXISTING HOME PLATE WITH INSTALL 'HOLLYWOOD' HOME PLATE, SKU# 1236477. AVAILABLE FROM: BSNSPORTS.COM, (800) 856-3488. INSTALL PER MANUFACTURER'S INSTRUCTIONS.

ADD TOPSOIL FILL MATERIAL AS NEEDED TO PROVIDE A SMOOTH TRANSITION FROM INFIELD SURFACE TO OUTFIELD TURF, TYP. RESEED FILL AREAS PER TURF REPAIR NOTES.

EXTEND AND RE-SHAPE EXISTING INFIELD FOR 60' DIAMOND PER DETAIL J5/L603.

EDGE OF EXISTING INFIELD

2 **FIELD 2**: REPLACE EXISTING PITCHER'S PLATE WITH (1) BOLCO STEP-DOWN' PITCHERS RUBBER, YOUTH SIZE 4" X 18" SKU# 1236392. REPLACE EXISTING BASES AND GROUND ANCHORS WITH: 'HOLLYWOOD IMPACT' BASE (SKU# 1236439) WITH GROUND ANCHORS (SKU# 1236507) AND BASE PLUGS (SKU# BBRPLUGS). REPLACE EXISTING HOME PLATE WITH INSTALL 'HOLLYWOOD' HOME PLATE, SKU# 1236477. AVAILABLE FROM: BSNSPORTS.COM, (800) 856-3488. INSTALL PER MANUFACTURER'S INSTRUCTIONS.

REMOVE 4" OF EXISTING MATERIAL AND REPLACE WITH APPROVED INFIELD MIX TO MATCH EXISTING INFIELD, TYP.

FIELD #2
60' BASEPATH

2 REMOVE 1" OF EXISTING INFIELD MATERIAL AND INSTALL 1" OF NEW INFIELD MATERIAL ON SURFACE AND RE-GRADE TO PROVIDE UNIFORM SURFACE WITH ADEQUATE DRAINAGE.

Field 2 - Bottom Rail
76' + 76'+ 40'=192 ft

ALL EXISTING TREES TO REMAIN: PROTECT IN PLACE, TYP. SEE TREE PROTECTION REQUIREMENTS SHEET G002.

INSTALL NEW 6" HIGH "TYPE A" CONCRETE CURB PER DETAIL A15/L403 TYP.

SAW-CUT & REMOVE EXISTING CONCRETE AND REPLACE WITH NEW BLEACHER SLAB, TYP.

REMOVE AND REPLACE EX. DRINKING FOUNTAIN PER DETAIL A1/L603.

(SEE SHEET L403)

44'-0"

12'-0"

LIMIT OF WORK

FIELD 1: REMOVE AND REPLACE EXISTING CHAIN LINK FENCE FABRIC FOR SIDELINE FENCING, DUGOUTS AND BACKSTOP WITH NEW 9 GAUGE 2" CHAIN LINK MESH, TYP. EXISTING POLES AND HARDWARE TO REMAIN - STRAIGHTEN OR REPLACE DAMAGED POLES OR HARDWARE AS REQUIRED.

PROVIDE AND INSTALL(2) NEW ADA BLEACHER: NATIONAL RECREATION SYSTEMS #N-0539AH 5-ROW X 39'-0" ALUMINUM BLEACHER, VERTICAL PICKETS, 4 ADA SEATS EACH. CONTACT: NATE YOUNKER, (858) 344-0445.

FIELD #1
60' & 90' BASEPATH

EDGE OF EXISTING INFIELD

1 REMOVE AND REPLACE WOODEN BACKSTOP MATERIAL WITH DIMENSIONAL PLASTIC LUMBER OF SAME DIMENSIONS AND USING SAME ATTACHMENT METHOD. COLOR: DARK GREEN OR DARK BROWN. CONTRACTOR SHALL PROVIDE SUBMITTAL FOR MATERIALS, LAYOUT AND ATTACHMENT OF BACKSTOP FOR APPROVAL.

SAW-CUT & REMOVE EXISTING ASPHALT AND REPLACE WITH NEW BLEACHER SLAB, TYP.

1 REMOVE 1" OF EXISTING INFIELD MATERIAL AND INSTALL 1" OF NEW INFIELD MATERIAL ON SURFACE AND RE-GRADE TO PROVIDE UNIFORM SURFACE WITH ADEQUATE DRAINAGE.

EXTEND AND RE-SHAPE EXISTING INFIELD FOR 90' DIAMOND PER DETAIL J5/L603.

ALL EXISTING TREES TO REMAIN: PROTECT IN PLACE, TYP. SEE TREE PROTECTION REQUIREMENTS SHEET G002.

CO 2-Infield Mix Inadequate Soil Profile (RFI 4)

Compensate the Contractor for all labor, equipment, and materials necessary to scarify/till the three (3) existing fields and install an additional two (2) inches of Angel mix material.

Infield Area Quantities:

- Field 1- 16,611 sq.ft.
- Field 2 - 9,085 sq.ft.
- Field 3 - 8,373

ALL EXISTING TREES TO REMAIN: PROTECT IN PLACE, TYP. SEE TREE PROTECTION REQUIREMENTS SHEET G002.

LIMIT OF WORK

LIMIT OF WORK

GERMAIN STREET

NORTH

SCALE: 1" = 20'-0"

20 10 0 20 40
GRAPHIC SCALE (in feet)

BUREAU OF ENGINEERING
OFFICIAL RECORD

CO 6 Additional Concrete

231 sf

Existing field conditions do not match the Sheet L401. Per Sheet L402 the total area as verified with image using the limits of concrete is 449 sq ft.. The area called as new concrete on sheet L401 is 231 sq ft. 449-231= **218 Sq ft buast**

BUREAU OF ENGINEERING
LOS ANGELES

NO.	REVISIONS	DATE

INDEX NO. RP-300

LICENSED LANDSCAPE ARCHITECT RICHARD W. FISHER #3660 Exp. 9-30-21 STATE OF CALIFORNIA

DEPARTMENT OF PUBLIC WORKS
BUREAU OF ENGINEERING
GARY LEE MOORE, P.E., ENV SP
CITY ENGINEER

LANDS, ARCHITECT:	RICHARD W. FISHER ASLA CA LIC: #3060	11/07/19
DESIGNED BY:	RICHARD W. FISHER ASLA	11/07/19
DRAWN BY:	RICHARD W. FISHER ASLA	11/07/19
CHECKED BY:	JANE ADRIAN	11/07/19
APPROVED BY:	MAHMOOD KARIMZADEH AIA, PRINCIPAL ARCHITECT	

CITY OF LOS ANGELES
CLIENT: DEPARTMENT OF RECREATION & PARKS
GENERAL MANAGER: MICHAEL A. SHULL

SHEET TITLE: CONSTRUCTION PLAN
PROJECT: CHATSWORTH PARK NORTH - OUTDOOR FIELD IMPROVEMENTS
ADDRESS: 22300 W. CHATSWORTH STREET, LOS ANGELES CA 91311

WORK ORDER NO. E170488
FILE NO. 185
DRAWING NO. L401
SHEET 3 OF 10 SHEETS
PLOTTED: 4/21/21, 4:53 PM

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

REVISION DATES (DESIGN STAGE ONLY)

Sheet Version 2.2

CONSTRUCTION LEGEND

- EXISTING CONCRETE OR ASPHALT PAVING TO REMAIN, TYP.
- NEW STRUCTURAL SLAB FOR BLEACHERS: 5" THICK WITH #3 REBAR AT 18" O.C. BOTH WAYS, TYP. PROVIDE 1" DEEP SCORE LINES AS NECESSARY TO PREVENT CRACKING. J1 & J5/L604
- NEW CONCRETE PAVING PER DETAIL J1/L604. PROVIDE EXPANSION JOINTS WHERE INDICATED, AND 1" DEEP SCORE LINES AS NECESSARY TO PREVENT CRACKING
- EXISTING INFIELD SURFACE TO REMAIN, TYP.
- REMOVE 4" OF EXISTING MATERIAL AND REPLACE WITH APPROVED INFIELD MIX TO MATCH EXISTING, TYP.
- ADD TOPSOIL FILL MATERIAL AS NEEDED TO PROVIDE A SMOOTH TRANSITION FROM INFIELD SURFACE TO OUTFIELD TURF, TYP. RESEED FILL AREAS PER TURF REPAIR NOTES.

TURF REPAIR AND RENOVATION:

1.) EXISTING TURF: DO NOT REMOVE TURF SOD OR APPLY HERBICIDE TO TURF SHOWN IN AREAS WHERE THE EXISTING TURF IS TO REMAIN. PRIOR TO HYDROSEEDING, MOW OR LIGHTLY SCRAPE ALL TURF AREAS TO REMOVE DEAD MATERIAL AND THATCH. DO NOT REMOVE ANY TOPSOIL OR ROOTS.

2.) IN ALL TURF AREAS WHERE THE EXISTING GRADE IS NOT SMOOTH AND CONTINUOUS (+/- 1/2"), REMOVE MOUNDS, AND FILL DEPRESSIONS WITH TOPSOIL TO RESTORE A SMOOTH AND CONTINUOUS GRADE.

3.) ALL AREAS WHERE THE EXISTING TURF IS DAMAGED BY TRENCHING, GRADING OR OTHER CONSTRUCTION ACTIVITY SHALL BE REPAIRED BY RESTORING THE EXISTING GRADE AND HYDROSEEDING PER BELOW OR REPLACING THE ORIGINAL SOD.

4.) ANY EXISTING TURF AREAS LARGER THAN 3' BY 3' WHERE THE EXISTING TURF IS LESS THAN 50% COVERAGE SHALL BE REPAIRED BY RESTORING A LEVEL AND CONSISTENT GRADE (IF REQUIRED) AND HYDROSEEDING PER BELOW.

5.) UPON THE END OF CONSTRUCTION AND MAINTENANCE PERIOD, THE ENTIRE TURF AREA SHALL HAVE FULL COVERAGE OF TURF. SEE PLANTING NOTES PER SHEET L603.

TURF REPAIR AND RENOVATION METHOD:
IF SEEDING OF TURF AREAS IS DONE DURING **COOL-SEASON** (BETWEEN **OCTOBER 1ST AND MARCH 1ST**) MIX SHALL BE:

THE LAWN SEED MIX FOR LAWN PLANTING SHALL CONTAIN THE FOLLOWING MATERIALS AT THE RATES SPECIFIED:

A. MULCH FIBER - 1,500 LBS./ACRE
B. STABILIZER - 120 LBS./ACRE
C. FERTILIZER - HYDROBLEND, AT 3,000 LBS. PER ACRE
D. SEED BY WEIGHT:
- 280 LB./ACRE STOVERS 'GRAND SLAM' RYEGRASS
- 60 LB./ACRE STOVERS 'PRINCESS" BERMUDA GRASS
- 60 LB./ACRE STOVERS 'WHITTET' IMPROVED KIKUYUGRASS

IF SEEDING OF TURF AREAS IS DONE DURING **WARM-SEASON** (BETWEEN **MARCH 1ST AND OCTOBER 1ST**) MIX SHALL BE:
THE LAWN SEED MIX FOR LAWN PLANTING SHALL CONTAIN THE FOLLOWING MATERIALS AT THE RATES SPECIFIED:

A. MULCH FIBER - 1,500 LBS./ACRE
B. STABILIZER - 120 LBS./ACRE
C. FERTILIZER - HYDROBLEND, AT 3,000 LBS. PER ACRE
D. SEED BY WEIGHT:
- 100 LB./ACRE STOVERS 'GRAND SLAM' RYEGRASS
- 75 LB./ACRE STOVERS 'PRINCESS" BERMUDA GRASS
- 75 LB./ACRE STOVERS 'WHITTET' IMPROVED KIKUYUGRASS

DEMOLITION & GRADING NOTES:

1. REMOVE ALL EXISTING BLEACHERS, CHAIN LINK FENCE FABRIC AND WOODEN BACKSTOP MATERIAL ON FIELD 1 AND DISPOSE OF PROPERLY OFF-SITE.

2. REMOVE ASPHALT PAVING WHERE INDICATED AND DISPOSE OF PROPERLY OFF-SITE.

3. CONTRACTOR SHALL PROPERLY DISPOSE OF ALL EXCESS SOIL AND REMOVED TURF MATERIAL OFF-SITE.

4. CONTRACTOR SHALL BE RESPONSIBLE FOR IMPORT OF ANY ADDITIONAL TOPSOIL REQUIRED TO COMPLETE THE WORK.

ALL EXISTING TREES TO REMAIN: PROTECT IN PLACE, TYP. SEE TREE PROTECTION REQUIREMENTS SHEET G002.

NEW SLOPE PLANTING: 42/5G AGAVE 'BLUE GLOW', MULCH PLANTED AREA WITH 3" LAYER OF WOOD CHIPS MULCH, TYP. A1/L603

RFI 11 Substitute Agave:5g Agave 'blue glow' is unavailable. Substitute with 5g Agave 'Sharkskin' or 5g Aloe Striata.

LIMIT OF WORK

EDGE OF EXISTING INFIELD

FIELD #3
60' BASEPATH

EXTEND AND RE-SHAPE EXISTING INFIELD FOR 60' DIAMOND PER DETAIL J5/L603.

3 REMOVE 1" OF EXISTING INFIELD MATERIAL AND INSTALL 1" OF NEW INFIELD MATERIAL ON SURFACE AND RE-GRADE TO PROVIDE UNIFORM SURFACE WITH ADEQUATE DRAINAGE.

4-24" BOX PISTACIA CHINENSIS (CHINESE PISTACHE) PER DETAIL J1/L603

3 **FIELD 3**: REPLACE EXISTING PITCHER'S PLATE WITH (1) BOLCO STEP-DOWN' PITCHERS RUBBER, YOUTH SIZE 4" X 18" SKU# 1236392. REPLACE EXISTING BASES AND GROUND ANCHORS WITH: 'HOLLYWOOD IMPACT' BASE (SKU# 1236439) WITH GROUND ANCHORS (SKU# 1236507) AND BASE PLUGS (SKU# BBRPLUGS). REPLACE EXISTING HOME PLATE WITH INSTALL 'HOLLYWOOD' HOME PLATE, SKU# 1236477. AVAILABLE FROM: BSNSPORTS.COM, (800) 856-3488. INSTALL PER MANUFACTURER'S INSTRUCTIONS.

RFI 10 (12/13/22) Schutt Hollywood Impact Base have been discontinued. Use Beacon Pro Style Base Set with steel stanchion system.

REMOVE 4" OF EXISTING MATERIAL AND REPLACE WITH APPROVED INFIELD MIX TO MATCH EXISTING INFIELD, TYP.

ADD TOPSOIL FILL MATERIAL AS NEEDED TO PROVIDE A SMOOTH TRANSITION FROM INFIELD SURFACE TO OUTFIELD TURF, TYP. RESEED FILL AREAS PER TURF REPAIR NOTES.

RFI 9 (5/3/22)/CO 7 Chainlink fencing on Field 2 and 3 was poured into the concrete curb. Instead of having a bottom rail the tension was held by being poured into concrete. Use grinder to grind the metal wire flush to the concrete. Install a bottom rail for the new chainlink mesh.

1 **FIELD 1**: REPLACE EXISTING PITCHER'S PLATES ***FOR BOTH 90' AND 60' BASEPATH LAYOUTS*** WITH (1) BOLCO STEP-DOWN' PITCHERS RUBBER, STANDARD SIZE 6" X 24" SKU# 1236385 AND (1) BOLCO STEP-DOWN' PITCHERS RUBBER, YOUTH SIZE 4" X 18" SKU# 1236392. REPLACE EXISTING BASES AND GROUND ANCHORS WITH: 'HOLLYWOOD IMPACT' BASE (SKU# 1236439) WITH GROUND ANCHORS (SKU# 1236507) AND BASE PLUGS (SKU# BBRPLUGS) - ***PROVIDE BASE ANCHORS FOR BOTH 90' AND 60' BASEPATH LAYOUTS***. REPLACE EXISTING HOME PLATE WITH INSTALL 'HOLLYWOOD' HOME PLATE, SKU# 1236477. AVAILABLE FROM: BSNSPORTS.COM, (800) 856-3488. INSTALL PER MANUFACTURER'S INSTRUCTIONS.

9-24" BOX TIPUANA TIPU (TIPU TREE) PER DETAIL J1/L603

ADD TOPSOIL FILL MATERIAL AS NEEDED TO PROVIDE A SMOOTH TRANSITION FROM INFIELD SURFACE TO OUTFIELD TURF, TYP. RESEED FILL AREAS PER TURF REPAIR NOTES.

EXTEND AND RE-SHAPE EXISTING INFIELD FOR 60' DIAMOND PER DETAIL J5/L603.

EDGE OF EXISTING INFIELD

2 **FIELD 2**: REPLACE EXISTING PITCHER'S PLATE WITH (1) BOLCO STEP-DOWN' PITCHERS RUBBER, YOUTH SIZE 4" X 18" SKU# 1236392. REPLACE EXISTING BASES AND GROUND ANCHORS WITH: 'HOLLYWOOD IMPACT' BASE (SKU# 1236439) WITH GROUND ANCHORS (SKU# 1236507) AND BASE PLUGS (SKU# BBRPLUGS). REPLACE EXISTING HOME PLATE WITH INSTALL 'HOLLYWOOD' HOME PLATE, SKU# 1236477. AVAILABLE FROM: BSNSPORTS.COM, (800) 856-3488. INSTALL PER MANUFACTURER'S INSTRUCTIONS.

FIELD #2
60' BASEPATH

REMOVE 4" OF EXISTING MATERIAL AND REPLACE WITH APPROVED INFIELD MIX TO MATCH EXISTING INFIELD, TYP.

2 REMOVE 1" OF EXISTING INFIELD MATERIAL AND INSTALL 1" OF NEW INFIELD MATERIAL ON SURFACE AND RE-GRADE TO PROVIDE UNIFORM SURFACE WITH ADEQUATE DRAINAGE.

RFI 4-As such the Engineer, Contractor, and RAP maintenance staff determined that it was necessary to scarify/till the infield area and add two (2) inches of Angel mix infield material. The new soil profile of the infield area would be a total of three (3) inches of material. One inch per the contract documents and the remaining through CO 2.

ALL EXISTING TREES TO REMAIN: PROTECT IN PLACE, TYP. SEE TREE PROTECTION REQUIREMENTS SHEET G002.

LIMIT OF WORK

INSTALL NEW 6" HIGH "TYPE A" CONCRETE CURB PER DETAIL A15/L403 TYP.

REMOVE AND REPLACE EX. DRINKING FOUNTAIN PER DETAIL A1/L603.

(SEE SHEET L403)

SAW-CUT & REMOVE EXISTING CONCRETE AND REPLACE WITH NEW BLEACHER SLAB, TYP.

44'-0"

12'-0"

LIMIT OF WORK

FIELD 1: REMOVE AND REPLACE EXISTING CHAIN LINK FENCE FABRIC FOR SIDELINE FENCING, DUGOUTS AND BACKSTOP WITH NEW 9 GAUGE 2" CHAIN LINK MESH, TYP. EXISTING POLES AND HARDWARE TO REMAIN - STRAIGHTEN OR REPLACE DAMAGED POLES OR HARDWARE AS REQUIRED.

PROVIDE AND INSTALL(2) NEW ADA BLEACHER: NATIONAL RECREATION SYSTEMS #N-0539AH 5-ROW X 39'-0" ALUMINUM BLEACHER, VERTICAL PICKETS, 4 ADA SEATS EACH. CONTACT: NATE YOUNKER, (858) 344-0445.

FIELD #1
60' & 90' BASEPATH

EDGE OF EXISTING INFIELD

1 REMOVE AND REPLACE WOODEN BACKSTOP MATERIAL WITH DIMENSIONAL PLASTIC LUMBER OF SAME DIMENSIONS AND USING SAME ATTACHMENT METHOD. COLOR: DARK GREEN OR DARK BROWN. CONTRACTOR SHALL PROVIDE SUBMITTAL FOR MATERIALS, LAYOUT AND ATTACHMENT OF BACKSTOP FOR APPROVAL.

REMOVE 4" OF EXISTING MATERIAL AND REPLACE WITH APPROVED INFIELD MIX TO MATCH EXISTING INFIELD, TYP.

SAW-CUT & REMOVE EXISTING ASPHALT AND REPLACE WITH NEW BLEACHER SLAB, TYP.

CO 1 - Damaged Concrete Tree Well-remove and replace. An Additional 2 ft added to the diameter of the tree well.

1 REMOVE 1" OF EXISTING INFIELD MATERIAL AND INSTALL 1" OF NEW INFIELD MATERIAL ON SURFACE AND RE-GRADE TO PROVIDE UNIFORM SURFACE WITH ADEQUATE DRAINAGE.

EXTEND AND RE-SHAPE EXISTING INFIELD FOR 90' DIAMOND PER DETAIL J5/L603.

ADD TOPSOIL FILL MATERIAL AS NEEDED TO PROVIDE A SMOOTH TRANSITION FROM INFIELD SURFACE TO OUTFIELD TURF, TYP. RESEED FILL AREAS PER TURF REPAIR NOTES.

ALL EXISTING TREES TO REMAIN: PROTECT IN PLACE, TYP. SEE TREE PROTECTION REQUIREMENTS SHEET G002.

LIMIT OF WORK

ALL EXISTING TREES TO REMAIN: PROTECT IN PLACE, TYP. SEE TREE PROTECTION REQUIREMENTS SHEET G002.

LIMIT OF WORK

NORTH

SCALE: 1" = 20'-0"

20 10 0 20 40
GRAPHIC SCALE (in feet)

BID ALTERNATE LEGEND: (SEE SHEET GOO2)

1 BID ALTERNATE 1.
2 BID ALTERNATE 2
3 BID ALTERNATE 3

GERMAIN STREET

PC 2 Empty Tree Well Modification at Field #1 (3/23/22)

REVISION DATES (DESIGN STAGE ONLY)

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

Sheet Version 2.2

BUREAU OF ENGINEERING
CITY OF LOS ANGELES

NO.	REVISIONS:	DATE	BY:
1	PLAN CLARIFICATION 1: IRRIGATION & PLANTING AT CIRCLE TREE WELL	3/7/22	RWF

BUILDING NO.

INDEX NO.

LICENSED LANDSCAPE ARCHITECT RICHARD W. FISHER #3060 Exp. 9-30-21 STATE OF CALIFORNIA

DEPARTMENT OF PUBLIC WORKS
GARY LEE MOORE, P.E., ENV SP
CITY ENGINEER

DATE	
11/07/19	PMP
11/07/19	PMP
11/07/19	PMP
11/07/19	PMP

LANDS. ARCHITECT: RICHARD W. FISHER ASLA CA LIC. #3060
ARCHITECTURAL DIVISION
DESIGNED BY: RICHARD W. FISHER ASLA
DRAWN BY: RICHARD W. FISHER ASLA
CHECKED BY: JANE ADRIAN
APPROVED BY: MAHMOOD KARIMZADEH AIA, PRINCIPAL ARCHITECT

CITY OF LOS ANGELES
CLIENT: DEPARTMENT OF RECREATION & PARKS
GENERAL MANAGER: MICHAEL A. SHULL

SHEET TITLE: CONSTRUCTION PLAN
PROJECT: CHATSWORTH PARK NORTH - OUTDOOR FIELD IMPROVEMENTS
ADDRESS: 22300 W. CHATSWORTH STREET, LOS ANGELES CA 91311

WORK ORDER NO. E170488
FILE NO. 185
DRAWING NO. L401
SHEET 3 OF 10 SHEETS

PLOTTED: 3/21/22, 2:07 PM

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.

CHATSWORTH STREET

PROVIDE NEW STRIPING AND SIGNAGE AT (2) EXISTING ACCESSIBLE PARKING LOCATIONS AND (2) NEW LOCATIONS PER DETAIL A/L402, TYP. AS NEEDED TO MEET ALL APPLICABLE CODES AND SUPPLY (4) TOTAL ACCESSIBLE SPACES.

EXISTING ASPHALT PARK ROAD TO REMAIN, TYP.

Removal Area (apprx)
180 SF+100 SF=280 SF

Stripping LF
=165'+100'=265'

18'-6"

(979.62 FS)

(JOIN)

(979.68 FS)

9'-6"

13'-8"

2'-0"

5'-0"

2'-0"

Typical Curb ramp detail

SAW-CUT AND REMOVE 5' WIDTH OF EXISTING CURB AT ACCESSIBLE AISLE.

NEW ACCESSIBLE ASPHALT PATH PER DETAIL E13/L403 TYP. PROVIDE "ROLLED EDGE" ADJACENT TO SOIL AREAS. FINISHED INSTALLATION SHALL MEET ALL APPLICABLE ACCESSIBILITY CODES AND REQUIREMENTS.

2' BUMBER OVERHANG LIMIT, TYP.

8'-0"

MAINTAIN MIN. 5' WIDTH AROUND LIGHT POLE BASE

typical detail for type a concrete curb

5'-0"

INSTALLL NEW 6" HIGH "TYPE A" CONCRETE CURB PER DETAIL A15/L403

REMOVE EXISTING CATCH BASIN, TYP.

978.50 TC
977.95 FS

978.50 TC
978.00 FS

978.50 TC
978.00 FS

978.50 TC
978.00 FS

(978.44 TC)
(977.96 FS)

977.91 FS

(978.30 FS)

(977.91 FS)

977.91 FS

(977.90 FS)

(978.30 FS)

REMOVE EXISTING CATCH BASIN, TYP.

(977.85 FS)

(977.82 FS)

(977.80 FS)

(977.52 FS)

(977.50 FS)

(977.18 FS)

(977.18 FS)

(977.76 TC)
(977.14 FS)

(977.91 TC)
(977.18 FS)

(977.27 FS)

(977.17 FS)

NOTE: SEE SHEET L401 FOR PAVING PLAN AND CONCRETE SCORE LINES, ETC.

(976.69 FS)

(976.81 FS)

(976.78 FS)

(976.75 FS)

(976.76 FS)

(976.73 FS)

976.78 TC

(977.21 TC)
(976.60 FS)

(977.32 TC)
(976.58 FS)

(976.25 FS)

(976.68 FS)

REMOVE EXISTING STRIPING AND RE-STRIPE 6 EXISTING SPACES TO NEW DIMENSIONS OF 18' X 8'-6", TYP.

8'-6"

CO 10 LADBS Correction Work for Final Sign-Off

CO 10 LADBS Correction Work for Final Sign-Off

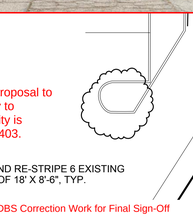
Per LADBS Final Inspector, the following corrections need to be implemented:

- Demo uneven asphalt stripped surfaces, next to newly stripped ADA parking stalls, and reconstruct/restrip accessible parking stalls to remove potholes.

- Add two (2) truncated domes in the areas noted in the email attachment. Approximate dimensions to be 5'X3' and 17'X3'.

- Obtain Deputy Report for drilled-in-anchors. The anchor bolts will need to be cut and bleachers are to be shifted a couple of feet to redo the installation of the anchor bolts and observed by BCA Deputy Inspector.

RFI 8 (3/3/22) Evergreen's proposal to change the Asphalt Pathway to Concrete at no cost to the City is approved. Follow detail J1/L403.



CO 4 Catch Basin Drain Continuation RFI 2 During the site visit on 2/17/22, it was determined that the catch basins adjacent to Field #1 will require the continuation of the drainpipe to keep the existing drainage system operable. Once the two (2) catch basins are demolished, install a section of drainpipe with sleeves to the existing drain and backfill. See attached sketch. (CO 4)

Vehicle spaces. Car and van parking spaces shall be 216 inches (18 feet) long minimum. Car parking spaces shall be 108 inches (9 feet) wide minimum and van parking spaces shall be 144 inches (12 feet) wide minimum, shall be marked to define the width, and shall have an adjacent access aisle complying with Section 11B-502.3.
Exception: Van parking spaces shall be permitted to be 108 inches (9 feet) wide minimum where the access aisle is 96 inches (8 feet) wide minimum.

Access aisle. Access aisles serving parking spaces shall comply with Section 11B-502.3. Access aisles shall adjoin an accessible route. Two parking spaces shall be permitted to share a common access aisle.

Width. Access aisles serving car and van parking spaces shall be 60 inches (5 feet) wide minimum.

Length. Access aisles shall extend the full required length of the parking spaces they serve.

Marking. Access aisles shall be marked with a blue painted borderline around their perimeter. The area within the blue borderlines shall be marked with hatched lines a maximum of 36 inches (3 feet) on center in a color contrasting with that of the aisle surface, preferably blue or white. The words "NO PARKING" shall be painted on the surface within each access aisle in white letters a minimum of 12 inches (1 foot) in height and located to be visible from the adjacent vehicular way. Access aisle markings may extend beyond the minimum required length.

Location. Access aisles shall not overlap the vehicular way. Access aisles shall be permitted to be placed on either side of the parking space except for van parking spaces which shall have access aisles located on the passenger side of the parking spaces.

Floor or ground surfaces. Parking spaces and access aisles serving them shall comply with Section 11B- 302. Access aisles shall be at the same level as the parking spaces they serve. Changes in level are not permitted.
Exception: Slopes not steeper than 1:48 shall be permitted.

Vertical clearance. Parking spaces, access aisles and vehicular routes serving them shall provide a vertical clearance of 98 inches (2489 mm) minimum.

Identification. Parking space identification signs shall include the International Symbol of Accessibility complying with Section 11B-703.7.2.1. Signs identifying van parking spaces shall contain additional language or an additional sign with the designation "van accessible." Signs shall be 60 inches (5 feet) minimum above the finish floor or ground surface measured to the bottom of the sign.
Exception: Signs located within an accessible route shall be a minimum of 80 inches (6 feet, 8 inches) above the finish floor or ground surface measured to the bottom of the sign.

Finish and size. Parking identification signs shall be reflectorized with a minimum area of 70 square inches.

Minimum fine. Additional language or an additional sign below the International Symbol of Accessibility shall state "Minimum Fine $250."

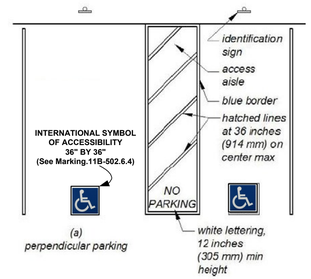
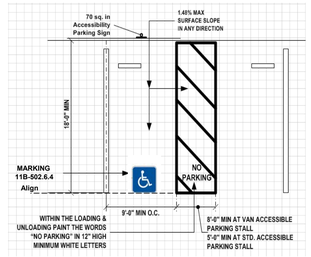
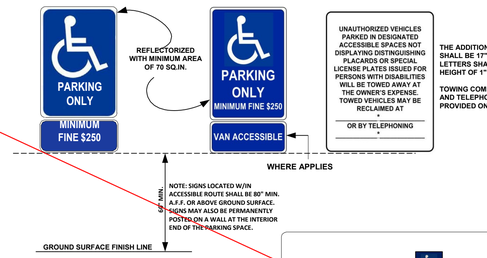


FIGURE 11B-502.3.3
PERPENDICULAR PARKING IDENTIFICATION



VAN PARKING SPACES SHALL BE PERMITTED TO BE 108 INCHES (9 FEET) WIDE MINIMUM WHERE THE ACCESS AISLE IS 96 INCHES (8 FEET) WIDE MINIMUM.

ACCESSIBLE PARKING SIGN INSTALLED AT EACH SPACE



A	ACCESSIBLE PARKING DETAILS	
N.T.S.		

LEGEND

ADA PATH OF TRAVEL, TYP.

NORTH

SCALE: 1" = 20'-0"

20 10 0 20 40

GRAPHIC SCALE (in feet)

BUREAU OF ENGINEERING
OFFICIAL RECORD

BUREAU OF ENGINEERING
ENGINEERING
CITY OF LOS ANGELES

DEPARTMENT OF PUBLIC WORKS
CITY OF LOS ANGELES

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

ARCHITECTURAL DIVISION
LANDS. ARCHITECT: RICHARD W. FISHER, ASLA. CA LIC. #0060

DESIGNED BY: RICHARD W. FISHER, ASLA. DATE 11/07/19
DRAWN BY: RICHARD W. FISHER, ASLA DATE 11/07/19
CHECKED BY: JANE ADRIAN DATE 11/07/19
APPROVED BY: MAHMOOD KARIMZADEH, AIA, PRINCIPAL ARCHITECT DATE 11/07/19

CLIENT: DEPARTMENT OF RECREATION & PARKS
GENERAL MANAGER: MICHAEL A. SHULL

SHEET TITLE: BLEACHER GRADING & ACCESSIBILITY PLAN
PROJECT: CHATSWORTH PARK NORTH - OUTDOOR FIELD IMPROVEMENTS
ADDRESS: 22300 W. CHATSWORTH STREET, LOS ANGELES CA 91311

BUILDING NO.
INDEX NO. RP-300115

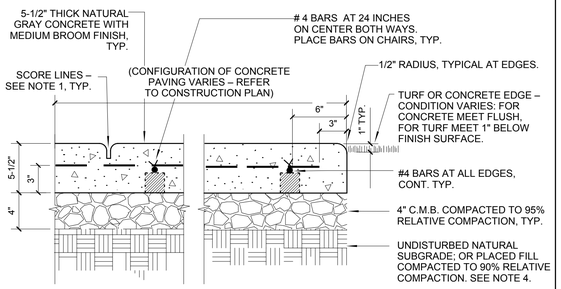
NO.	REVISIONS	DATE	BY

WORK ORDER NO. E170488
FILE NO. 185
DRAWING NO. L402
SHEET 4 OF 10 SHEETS

PLOTTED: 3/26/20, 2:28 PM

REVISION DATES (DESIGN STAGE ONLY)

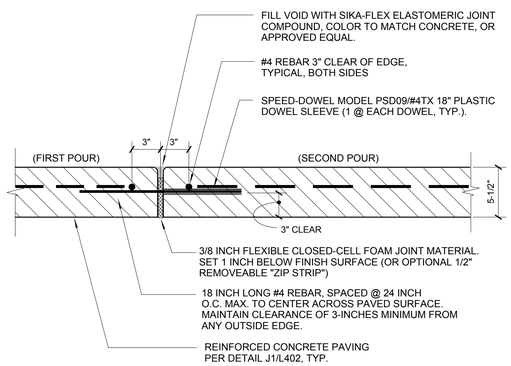
Sheet Version 2.2



NOTES:

1. PROVIDE TOOLED SCORE LINES 1" DEEP AT LOCATIONS SHOWN ON CONSTRUCTION PLAN
2. EXPANSION JOINTS SHALL BE CONSTRUCTED AS SHOWN ON DETAIL J9/L403.
3. PROVIDE ISOLATION JOINTS PER DETAIL J13 AGAINST PREVIOUSLY CONSTRUCTED FIXED ELEMENTS.
4. END OF POUR JOINTS – SEE LANDSCAPE CONSTRUCTION NOTES.

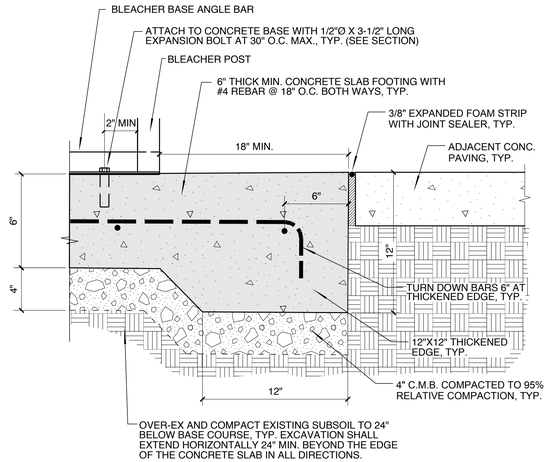
J1	CONC. PAVING W/CM BASE, NO THICKENED EDGE	
N.T.S.	RP REVISED 7-2-13 RWF	RP DETAIL L3020



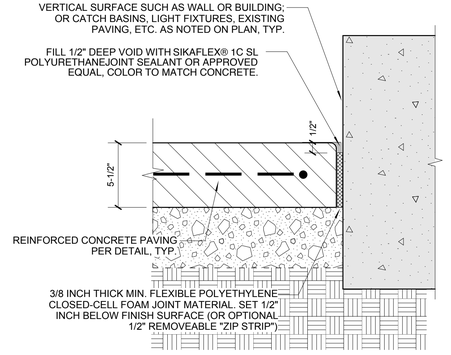
SECTION

NOTES:
1.) MAINTAIN LINE AND GRADE AT ALL EXPANSION JOINTS, TYP.
2.) WHERE ADJACENT TO EXISTING CONCRETE PAVING, DRILL 6" INTO PAVING FOR DOWELS AND SET IN POUR ROCK.

J5	DOWELED EXPANSION JOINT	
N.T.S.		RP DETAIL L3070



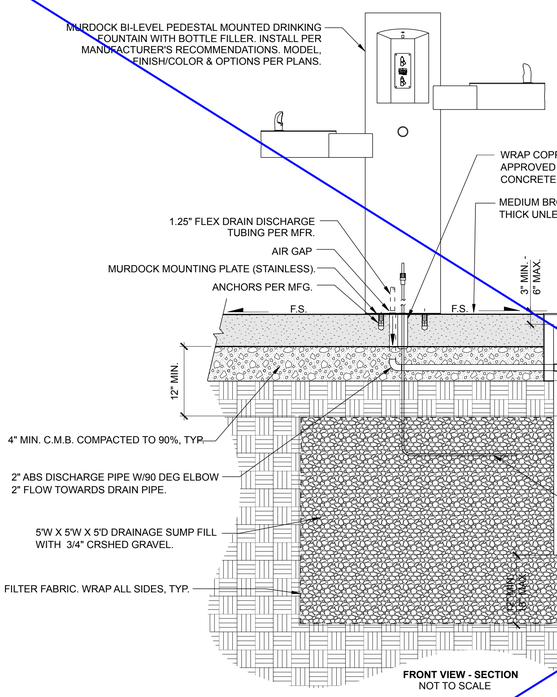
J9	THICKENED EDGE SLAB AND BLEACHER ATTACHMENT	
N.T.S.		



SECTION

NOTES:
1.) MAINTAIN LINE AND GRADE AT ALL ISOLATION JOINTS, TYP.
2.) SEE LANDSCAPE CONSTRUCTION SPECIFICATIONS FOR ADDITIONAL INFORMATION.

J13	ISOLATION JOINT	
N.T.S.		RP DETAIL L3071



FRONT VIEW - SECTION
NOT TO SCALE

NOTES:

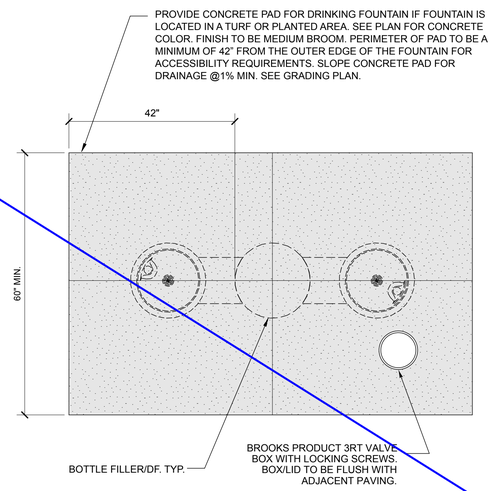
1. CONTRACTOR TO SUBMIT SHOP DRAWINGS TO THE CITY'S PROJECT MANAGER FOR APPROVAL PRIOR TO FABRICATION AND INSTALLATION.
2. REFER TO MANUFACTURER'S INSTALLATION & MAINTENANCE INSTRUCTIONS FOR OPTION INSTALLATION.
3. INSTALL WITH MURDOCK MOUNTING PLATE
4. MDL# IS GYQ84-CV-IAP-RAP. (ADD PF TO THE MODEL # WHEN PET FOUNTAIN IS DESIRED)
5. WRAP 6" PERFORATED PIPE IN A COURSE WEAVE FILTER FABRIC WHERE IT OCCURS *INSIDE* GRAVEL.

A1	MURDOCK ACCESSIBLE DRINKING FOUNTAIN	
N.T.S.	BOE VERSION AUG/18	RP DETAIL L1732

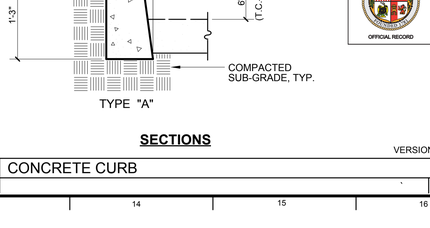
DOMESTIC LINE STERILIZATION PROCEDURE:

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

- COLIFORM-AEROGENES ORGANISMS: NEGATIVE
- TOTAL BACTERIA PLATE COUNT: LESS THAN 100/CUBIC CENTIMETER
- WATER POTABILITY: SAFE TO USE. IF RESULTS ARE NEGATIVE, STERILIZATION SHALL BE REPEATED UNTIL STANDARD IS MET.



PLAN VIEW - LAYOUT
NOT TO SCALE

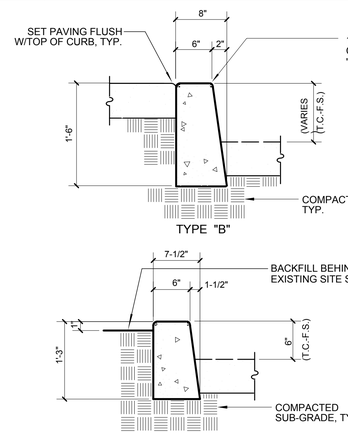


NOTES:

1. FOR NEW PAVING, USE THE FOLLOWING SEALER APPLICATION: 2 COATS, GUARDTOP® PAVEMENT SEALER, OR EQUAL, AFTER 24 HOURS OF THE INSTALLATION OF A.C.

2. PROVIDE "ROLLED EDGE" WHER ADJACENT TO SOIL AREAS, TYP.

E13	A.C. PAVEMENT	
N.T.S.	BOE VERSION Apr/08 - SHD, RWF	RP DETAIL L3150



SECTIONS

VERSION: 12-09-04 SLG

A13	CONCRETE CURB	
N.T.S.		RP DETAIL 310

BUREAU OF ENGINEERING
OFFICIAL RECORD

BUREAU OF ENGINEERING
ENGINEERING
CITY OF LOS ANGELES

NO.	REVISIONS:	DATE:	BY:

BUILDING NO.

INDEX NO. RP-300115

LICENSED LANDSCAPE ARCHITECT

DEPARTMENT OF PUBLIC WORKS
CITY OF LOS ANGELES

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

		DATE
LA/DIV. ARCHITECTURAL DIVISION		11/07/19
LANDS. ARCHITECT: RICHARD W. FISHER, ASLA CA LIC. #3060		11/07/19
DESIGNED BY:	RICHARD W. FISHER, ASLA	11/07/19
DRAWN BY:	RICHARD W. FISHER, ASLA	11/07/19
CHECKED BY:	JANE ADRIAN	11/07/19
APPROVED BY:	MAHMOOD KARIMZADEH, AIA, PRINCIPAL ARCHITECT	11/07/19

CLIENT: DEPARTMENT OF RECREATION & PARKS
GENERAL MANAGER: MICHAEL A. SHULL

SHEET TITLE: CONSTRUCTION DETAILS

PROJECT: CHATSWORTH PARK NORTH - OUTDOOR FIELD IMPROVEMENTS

ADDRESS: 22300 W. CHATSWORTH STREET, LOS ANGELES CA 91311

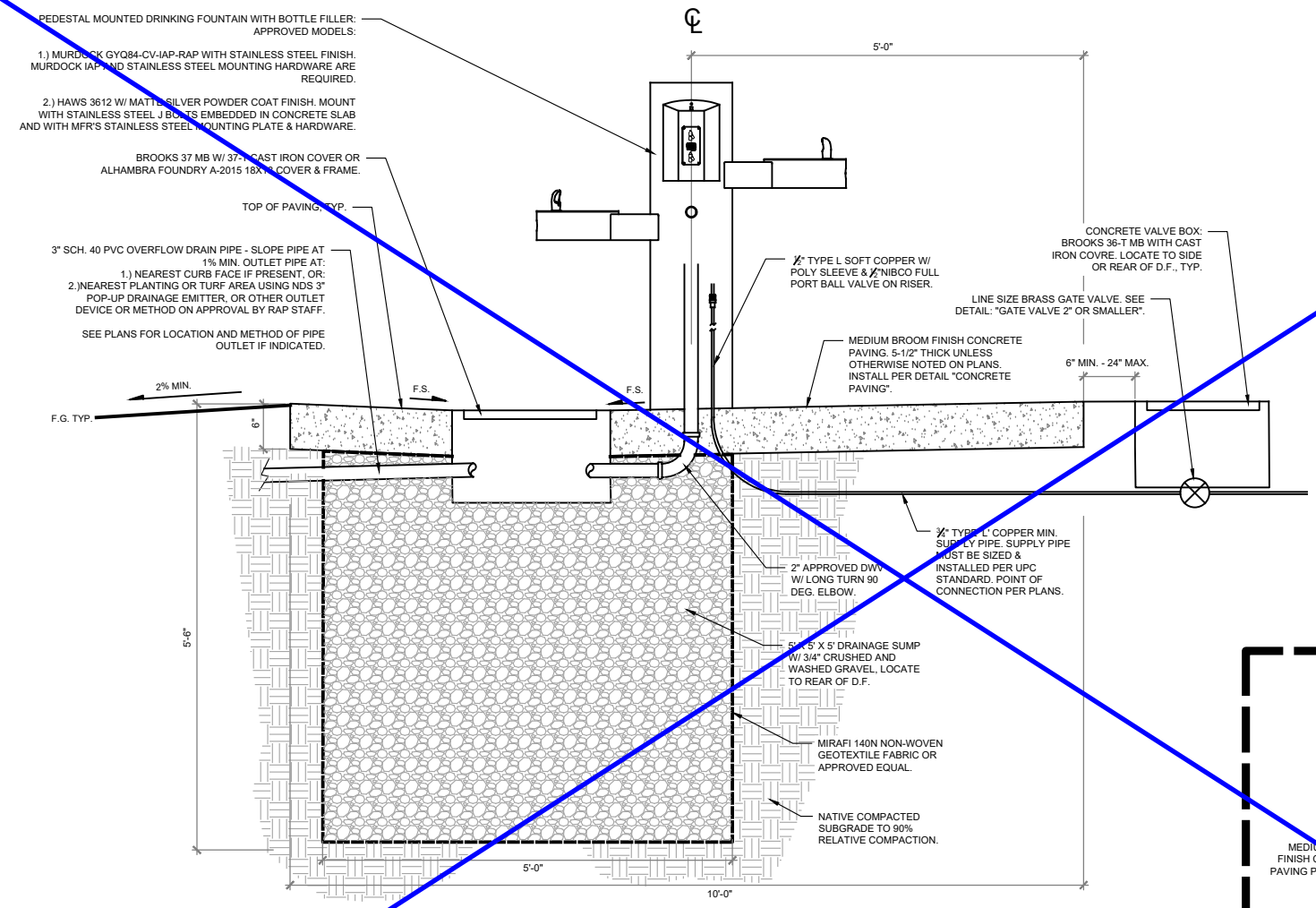
WORK ORDER NO. E170488
FILE NO. 185
DRAWING NO. L403
SHEET 5 OF 10 SHEETS
PLOTTED: 3/26/20, 1:16 PM

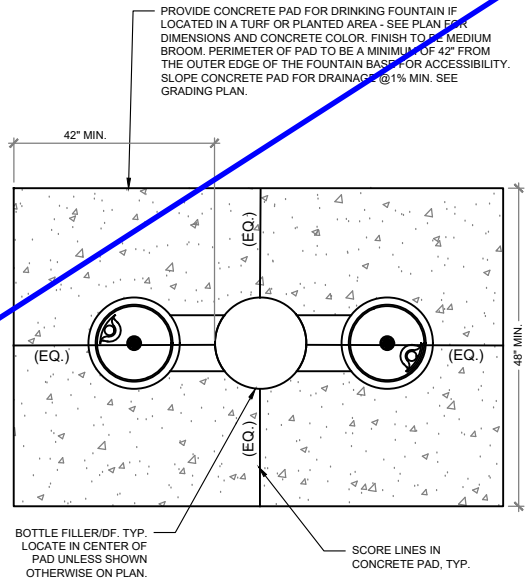
REVISION DATES: (DESIGN STAGE ONLY)

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

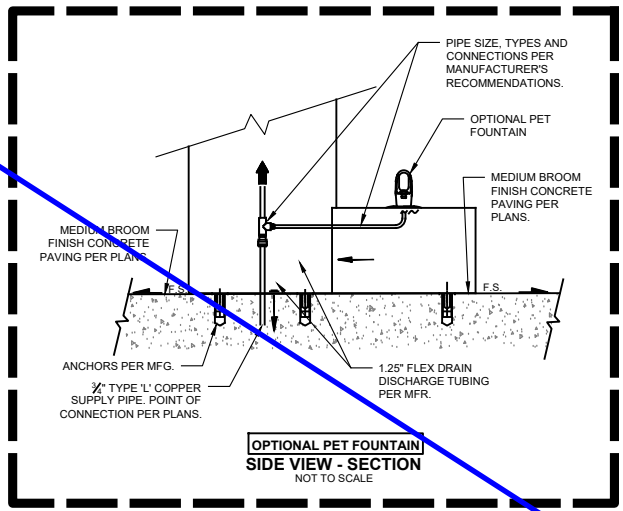
Sheet Version 2.2

PC 1 Revised Drinking Fountain Detail (3/1/22)





PLAN VIEW - LAYOUT
NOT TO SCALE



OPTIONAL PET FOUNTAIN
SIDE VIEW - SECTION
NOT TO SCALE

NOTES:

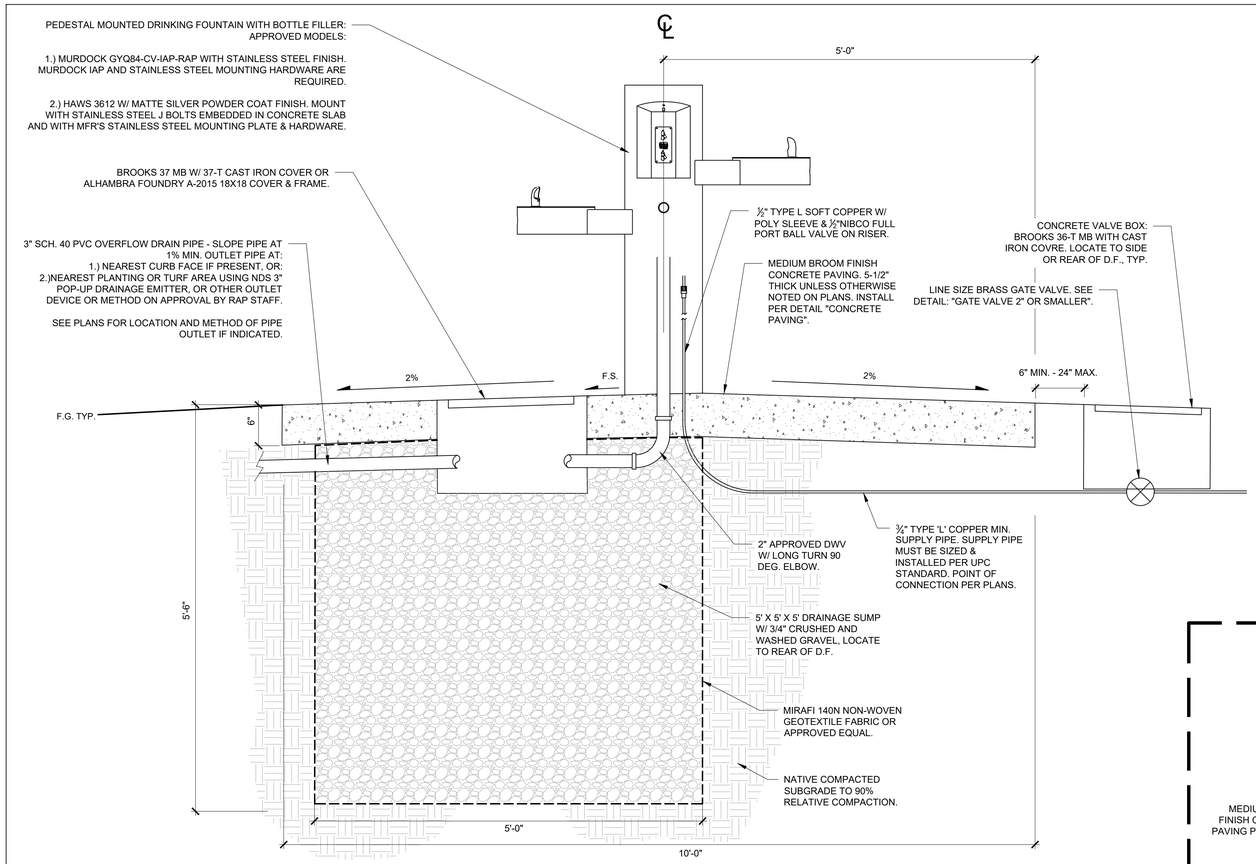
1.) INSTALL PER DETAIL. REFER TO MANUFACTURER'S INSTRUCTION FOR PLUMBING AND MOUNTING DRINKING FOUNTAIN UNIT.

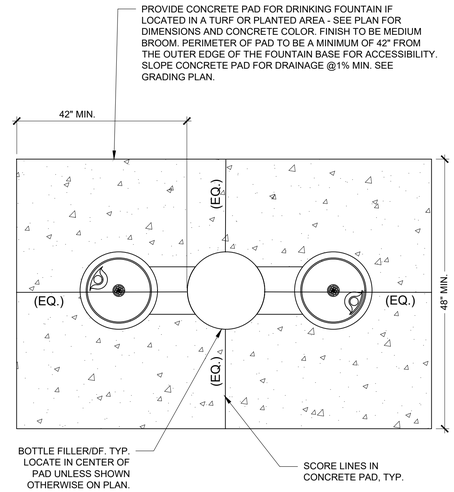
2.) CONTRACTOR SHALL SUBMIT LOCATION FOR SUMP AND OVERFLOW DRAINAGE LAYOUT FOR APPROVAL BY PROJECT MANAGER PRIOR TO BEGINNING EXCAVATION.

DOMESTIC LINE STERILIZATION PROCEDURE:

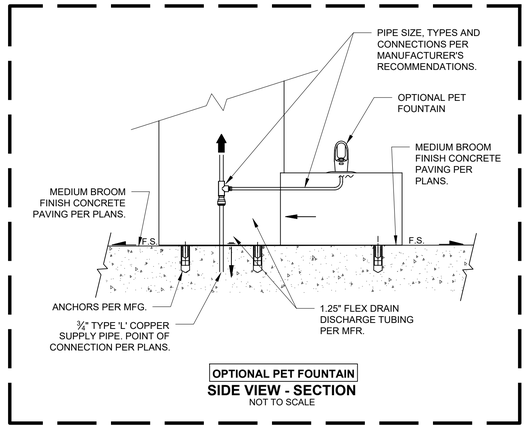
1.) FLUSH DOMESTIC WATER LINES COMPLETELY.
2.) USING A PROPORTIONING PUMP, INJECT SODIUM HYPOCHLORITE LIQUID DISINFECTANT INTO THE DOMESTIC LINE THROUGH A ¾" SERVICE COCK AT A POINT AS CLOSE TO THE WATER METER AS POSSIBLE.
3.) OPEN BUBBLERS ON ALL D.F. UNITS INSTALLED TO DISTRIBUTE DISINFECTANT THROUGHOUT THE DOMESTIC LINE SYSTEM.
4.) VERIFY BY TESTING THAT A MINIMUM CONCENTRATION OF 50 PPM OF DISINFECTANT IS ACHIEVED AT EACH D.F. UNIT.
5.) DISINFECTANT SHALL REMAIN IN THE SYSTEM FOR 24 HOURS MINIMUM.
6.) AT THE END OF THE 24 HOUR PERIOD, THE RESIDUAL LEVEL OF DISINFECTANT SHALL NOT BE LESS THAN 10 PPM.
7.) ALL LINES SHALL BE FLUSHED THOROUGHLY AFTER DISINFECTION IS COMPLETED.
8.) A WATER SAMPLE AT EACH D.F. UNIT SHALL BE TESTED BY AN APPROVED TESTING LABORATORY. REQUIRED RESULTS ARE:
- COLIFORM-AEROGENES ORGANISMS: NEGATIVE
- TOTAL BACTERIA PLATE COUNT: LESS THAN 100 PER CUBIC CENTIMETER
- WATER POTABILITY: SAFE TO USE
IF THE REQUIRED RESULTS ARE NOT MET, STERILIZATION PROCESS LISTED ABOVE SHALL BE REPEATED UNTIL THE REQUIRED TEST RESULTS ARE MET.

	ACCESSIBLE DRINKING FOUNTAIN	
N.T.S.	BOE Version Feb/22	RP DETAIL L1732





PLAN VIEW - LAYOUT
NOT TO SCALE



OPTIONAL PET FOUNTAIN
SIDE VIEW - SECTION
NOT TO SCALE

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.

DOMESTIC LINE STERILIZATION PROCEDURE:

1.) FLUSH DOMESTIC WATER LINES COMPLETELY.
2.) USING A PROPORTIONING PUMP, INJECT SODIUM HYPOCHLORITE LIQUID DISINFECTANT INTO THE DOMESTIC LINE THROUGH A ¾" SERVICE COCK AT A POINT AS CLOSE TO THE WATER METER AS POSSIBLE.
3.) OPEN BUBBLERS ON ALL D.F. UNITS INSTALLED TO DISTRIBUTE DISINFECTANT THROUGHOUT THE DOMESTIC LINE SYSTEM.
4.) VERIFY BY TESTING THAT A MINIMUM CONCENTRATION OF 50 PPM OF DISINFECTANT IS ACHIEVED AT EACH D.F. UNIT.
5.) DISINFECTANT SHALL REMAIN IN THE SYSTEM FOR 24 HOURS MINIMUM.
6.) AT THE END OF THE 24 HOUR PERIOD, THE RESIDUAL LEVEL OF DISINFECTANT SHALL NOT BE LESS THAN 10 PPM.
7.) ALL LINES SHALL BE FLUSHED THOROUGHLY AFTER DISINFECTION IS COMPLETED.
8.) A WATER SAMPLE AT EACH D.F. UNIT SHALL BE TESTED BY AN APPROVED TESTING LABORATORY. REQUIRED RESULTS ARE:
- COLIFORM-AEROGENES ORGANISMS: NEGATIVE
- TOTAL BACTERIA PLATE COUNT: LESS THAN 100 PER CUBIC CENTIMETER
- WATER POTABILITY: SAFE TO USE
IF THE REQUIRED RESULTS ARE NOT MET, STERILIZATION PROCESS LISTED ABOVE SHALL BE REPEATED UNTIL THE REQUIRED TEST RESULTS ARE MET.

	ACCESSIBLE DRINKING FOUNTAIN	
N.T.S.	BOE Version Feb/22	RP DETAIL L1732

NOTES TO DESIGNER:

1. BOTH MFR./MODELS ARE ALLOWED - CONTRACTOR WILL CHOOSE AND SUBMIT ONE TYPE.

2. COLOR: DO NOT CHANGE WITHOUT PRE-APPROVAL BY RAP MAINTENANCE. STAINLESS STEEL (MURDOCK) OR MATTE GRAY POWDERCOAT (HAWS) IS STANDARD.

3. IF PET FOUNTAIN IS REQUESTED AND APPROVED IN ADVANCE BY RAP MAINTENANCE, ONLY MURDOCK CAN BE USED. ADD "-PF" ON MODEL NUMBER AND INCLUDE THE OPTIONAL PET FOUNTAIN ILLUSTRATION. **REMOVE HAWS FROM APPROVED MFR'S. IF PET FOUNTAIN IS SPECIFIED. DELETE PF ILLUSTRATION IN DETAIL IF NOT SPECIFIED.**

4. SUMP LOCATION AND DIMENSTIONS MAY NEED TO BE MODIFIED IF REQUIRED BY GEOTECH REPORT. DESIGNER SHALL REVISE DETAIL TO INCLUDE THOSE MODIFICATIONS AND SUBMIT TO BOE AND/OR RAP STAFF FOR REVIEW AND APPROVAL BEFORE 100% PLAN SET.

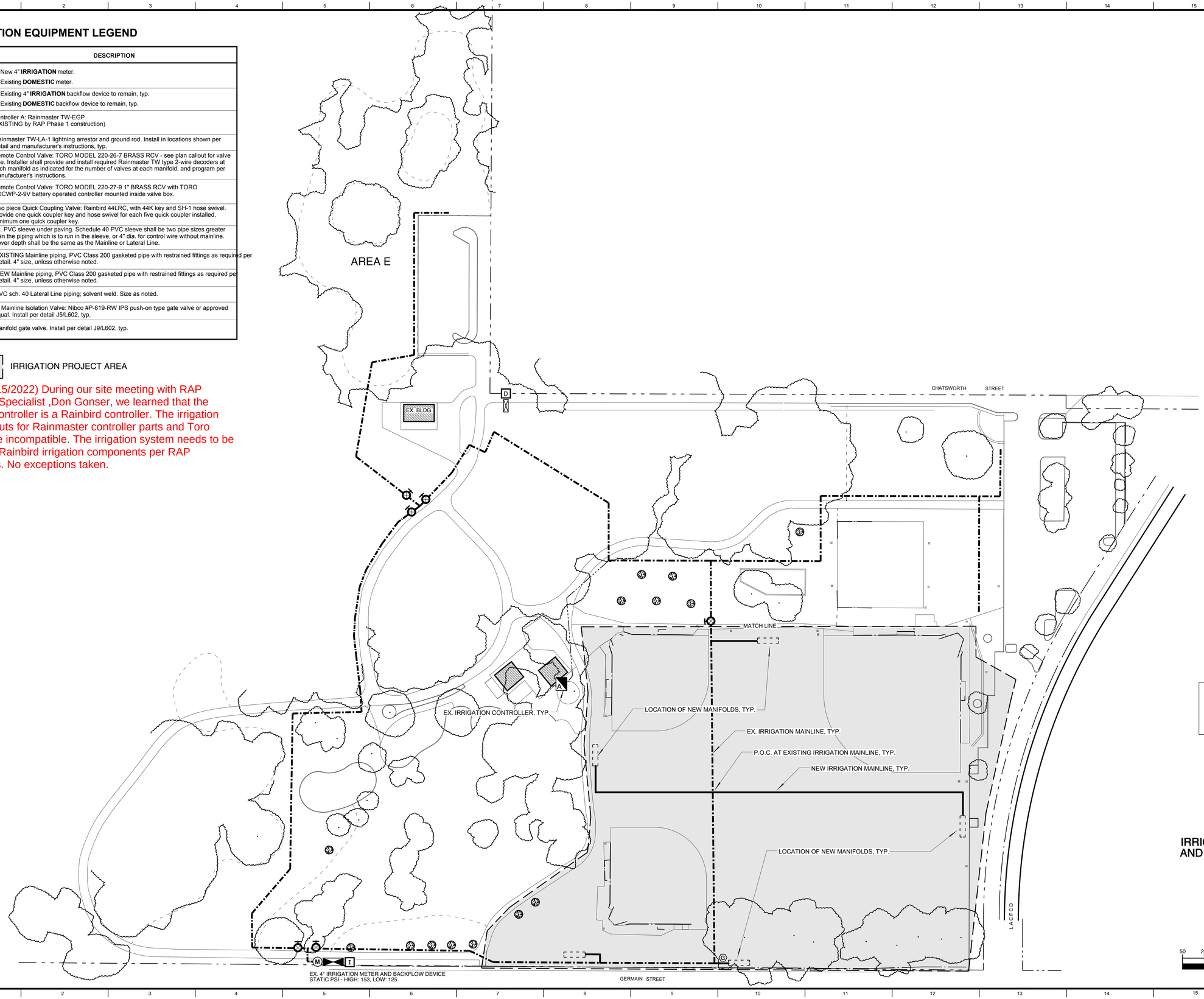
CO 3-Drinking Fountain Sump Detail - RFI 5/PC 1-R1
Revised Drinking Fountain Detail
Addresses the sloped area adjacent to the drainage sump frame and cover.
(3/9/22)

IRRIGATION EQUIPMENT LEGEND

SYMBOL	DESCRIPTION
I	New 4" **IRRIGATION** meter.
D	Existing **DOMESTIC** meter.
	Existing 4" **IRRIGATION** backflow device to remain, typ.
	Existing **DOMESTIC** backflow device to remain, typ.
A	Controller A: Rainmaster TW-EGP (EXISTING by RAP Phase 1 construction)
L	Rainmaster TW-LA-1 lightning arrestor and ground rod. Install in locations shown per detail and manufacturer's instructions, typ.
	Remote Control Valve: TORO MODEL 220-26-7 BRASS RCV - see plan callout for valve size. Installer shall provide and install required Rainmaster TW type 2-wire decoders at each manifold as indicated for the number of valves at each manifold, and program per manufacturer's instructions.
	Remote Control Valve: TORO MODEL 220-27-9 1" BRASS RCV with TORO DDCWP-2-9V battery operated controller mounted inside valve box.
	Two piece Quick Coupling Valve: Rainbird 44LRC, with 44K key and SH-1 hose swivel. Provide one quick coupler key and hose swivel for each five quick coupler installed, minimum one quick coupler key.
	Ex. PVC sleeve under paving. Schedule 40 PVC sleeve shall be two pipe sizes greater than the piping which is to run in the sleeve, or 4" dia. for control wire without mainline. Cover depth shall be the same as the Mainline or Lateral Line.
	EXISTING Mainline piping, PVC Class 200 gasketed pipe with restrained fittings as required per detail. 4" size, unless otherwise noted.
	NEW Mainline piping, PVC Class 200 gasketed pipe with restrained fittings as required per detail. 4" size, unless otherwise noted.
	PVC sch. 40 Lateral Line piping; solvent weld. Size as noted.
	4" Mainline Isolation Valve: Nibco #P-619-RW IPS push-on type gate valve or approved equal. Install per detail J5/L602, typ.
	Manifold gate valve. Install per detail J9/L602, typ.

IRRIGATION PROJECT AREA

RFI 3 (2/15/2022) During our site meeting with RAP Irrigation Specialist ,Don Gonser, we learned that the existing controller is a Rainbird controller. The irrigation plan callouts for Rainmaster controller parts and Toro valves are incompatible. The irrigation system needs to be built with Rainbird irrigation components per RAP standards. No exceptions taken.



BUREAU OF ENGINEERING
OFFICIAL RECORD

IRRIGATION SITE PLAN AND MAINLINE LAYOUT

NORTH

SCALE: 1" = 50'-0"

50 25 0 50 100

GRAPHIC SCALE (in feet)

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

REVISION DATES (DESIGN STAGE ONLY)

Sheet Version 2.2

BUREAU OF ENGINEERING

ENGINEERING
CITY OF LOS ANGELES

NO.	REVISIONS	DATE	BY
1			
2			
3			
4			

BUILDING NO.

INDEX NO. RP-300115

LICENSED LANDSCAPE ARCHITECT RICHARD W. FISHER #3060 Exp. 9-30-21 STATE OF CALIFORNIA

DEPARTMENT OF PUBLIC WORKS

CITY ENGINEER: GARY LEE MOORE, P.E., ENV SP — DATE: 11/07/19

ARCHITECTURAL DIVISION		
LANDS. ARCHITECT: RICHARD W. FISHER ASLA CA LIC. #3060	RWF	11/07/19
DESIGNED BY: RICHARD W. FISHER ASLA	RWF	11/07/19
DRAWN BY: RICHARD W. FISHER ASLA	RWF	11/07/19
CHECKED BY: JANE ADRIAN	GRD	11/07/19
APPROVED BY: MAHMOOD KARIMZADEH AIA, PRINCIPAL ARCHITECT		

CITY OF LOS ANGELES

CLIENT: DEPARTMENT OF RECREATION & PARKS
GENERAL MANAGER: MICHAEL A. SHULL

SHEET TITLE: IRRIGATION SITE PLAN

PROJECT: CHATSWORTH PARK NORTH - OUTDOOR FIELD IMPROVEMENTS

ADDRESS: 22300 W. CHATSWORTH STREET, LOS ANGELES CA 91311

WORK ORDER NO. E170488

FILE NO. 185

DRAWING NO. L600

SHEET 6 OF 10 SHEETS

PLOTTED: 12/10/20, 7:48 AM

IRRIGATION EQUIPMENT LEGEND

SYMBOL	DESCRIPTION
I	New 4" **IRRIGATION** meter.
D	Existing **DOMESTIC** meter.
	Existing 4" **IRRIGATION** backflow device to remain, typ.
	Existing **DOMESTIC** backflow device to remain, typ.
A	Controller A: Rainmaster TW-EGP (EXISTING by RAP Phase 1 construction)
L	Rainmaster TW-LA-1 lightning arrestor and ground rod. Install in locations shown per detail and manufacturer's instructions, typ.
	Remote Control Valve: TORO MODEL 220-26-7 BRASS RCV - see plan callout for valve size. Installer shall provide and install required Rainmaster TW type 2-wire decoders at each manifold as indicated for the number of valves at each manifold, and program per manufacturer's instructions.
	Remote Control Valve: TORO MODEL 220-27-9 1" BRASS RCV with TORO DDCWP-2-9V battery operated controller mounted inside valve box.
	Two piece Quick Coupling Valve: Rainbird 44LRC, with 44K key and SH-1 hose swivel. Provide one quick coupler key and hose swivel for each five quick coupler installed, minimum one quick coupler key.
	Ex. PVC sleeve under paving. Schedule 40 PVC sleeve shall be two pipe sizes greater than the piping which is to run in the sleeve, or 4" dia. for control wire without mainline. Cover depth shall be the same as the Mainline or Lateral Line.
	Mainline piping, PVC Class 200 gasketed pipe with restrained fittings as required per detail. 4" size, unless otherwise noted.
	PVC sch. 40 Lateral Line piping; solvent weld. Size as noted.
	4" Mainline Isolation Valve: Nibco #P-619-RW IPS push-on type gate valve or approved equal. Install per detail J5/L602, typ.
	Manifold gate valve. Install per detail J9/L602, typ.

IRRIGATION HEADS LEGEND

SYMBOL	DESCRIPTION	GPM	SPACING	NOZZLE PRESSURE	PRECIP. RATE	DETAIL NUMBER
3	**TORO T5PCKSS-RS #3.0 NOZZLE** Gear driven rotary pop-up with nozzle as noted, typ.	3.0	35'	70psi	0.69 in/hr	A13/ L602
07	**TORO T7PSS-02-#07 NOZZLE** Gear driven rotary pop-up with nozzle as noted,typ.	8.8	40'	70psi	0.74 in/hr	A13/ L602
12	**TORO T7PSS-02-#12 NOZZLE** Gear driven rotary pop-up with nozzle as noted, typ	13.8	47'	70psi	0.83 in/hr	A13/ L602
	TORO T7PSS-02-#12 NOZZLE Gear driven rotary pop-up with nozzle as noted, typ.	18.8	47'	70psi	0.82 in/hr	A13/ L602
	TORO T7PSS-02-#16 NOZZLE Gear driven rotary pop-up with nozzle as noted, typ.	17.5	53'	70 psi	--	A13/ L602
	TORO T7PSS-02-#27 NOZZLE Gear driven rotary pop-up with nozzle as noted, typ.	25.8	65'	70 psi	--	A13/ L602
	TORO 570-4P-PRXCOM 4" pop-up body with Precision Series nozzle with radius and arc as noted	var.	12-15'	30 psi	1.1 in/hr	A9/ L602
	TORO 570-4P-PRXCOM 4" pop-up body with FB25PC bubbler nozzle	.25	--	--	--	A9/ L602
	TORO 570-4P-PRXCOM 4" pop-up body with FB100PC bubbler nozzle	1.0	--	--	--	A9/ L602

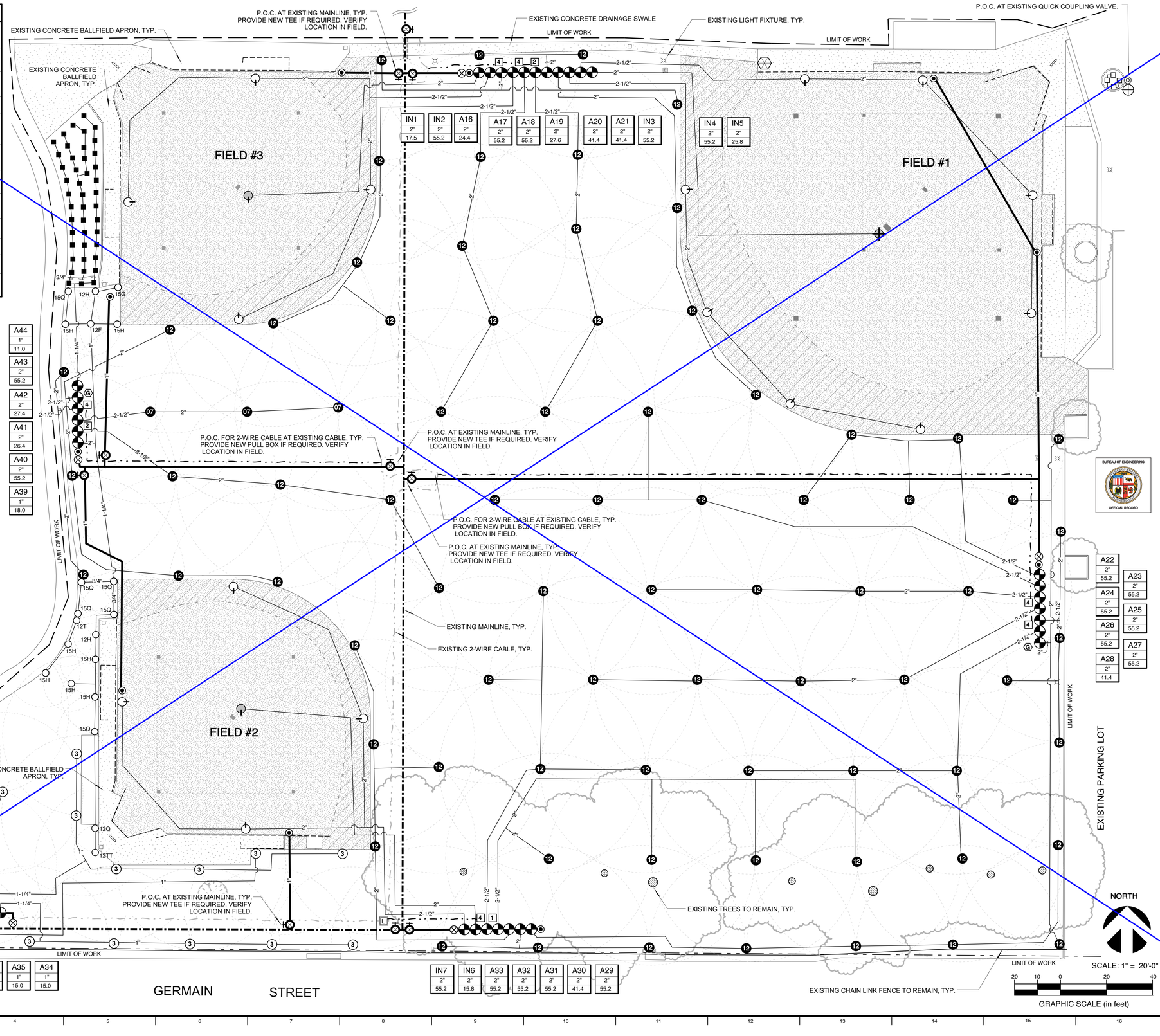
NOTE : All rotor heads shall be installed with pressure reducing swing joints at 70 psi. See detail A13/L602

2-WIRE SYSTEM EQUIPMENT LEGEND

1. Rainmaster #TW-D-1 one valve decoder. Install per manufacturer's instructions.
2. Rainmaster #TW-D-2 two valve decoder. Install per manufacturer's instructions.
4. Rainmaster #TW-D-4 four valve decoder. Install per manufacturer's instructions.
- Rainmaster TW-LA-1 lightning arrestor and ground rod. Install in locations shown per manufacturer's instructions and per detail E1/L603, typ.
- Rainmaster TW-CAB-14 2-wire system cable. See details J1 & J9/L603.

A1 — Controller & Station No.
2" — Valve Size
XX.X — System GPM

IRRIGATION VALVE LEGEND



BUREAU OF ENGINEERING
OFFICIAL RECORD

BUREAU OF ENGINEERING
ENGINEERING
CITY OF LOS ANGELES

NO.	REVISIONS	DATE	BY

BUILDING NO.

INDEX NO. RP-300115

LICENSED LANDSCAPE ARCHITECT RICHARD W. FISHER #3060 Exp. 9-30-21 STATE OF CALIFORNIA

DEPARTMENT OF PUBLIC WORKS
GARY LEE MOORE, P.E., ENV SP
CITY ENGINEER

DATE	BY
11/07/19	RWF
11/07/19	RWF
11/07/19	RWF
11/07/19	GRD

LANDS. ARCHITECT: RICHARD W. FISHER ASLA CA LIC. #3060
DESIGNED BY: RICHARD W. FISHER ASLA
DRAWN BY: RICHARD W. FISHER ASLA
CHECKED BY: JANE ADRIAN
APPROVED BY: MAHMOOD KARIMZADEH AIA, PRINCIPAL ARCHITECT

CITY OF LOS ANGELES
CLIENT: DEPARTMENT OF RECREATION & PARKS
GENERAL MANAGER: MICHAEL A. SHULL

SHEET TITLE: IRRIGATION PLAN
PROJECT: CHATSWORTH PARK NORTH - OUTDOOR FIELD IMPROVEMENTS
ADDRESS: 22300 W. CHATSWORTH STREET, LOS ANGELES CA 91311

WORK ORDER NO. E170488
FILE NO. 185
DRAWING NO. L601
SHEET 7 OF 10 SHEETS
PLOTTED: 12/10/20, 7:48 AM

REVISION DATES (DESIGN STAGE ONLY)

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

Sheet Version 2.2

IRRIGATION EQUIPMENT LEGEND

SYMBOL	DESCRIPTION
I / D	New 4" **IRRIGATION** meter. Existing **DOMESTIC** meter.
	Existing 4" **IRRIGATION** backflow device to remain, typ. Existing **DOMESTIC** backflow device to remain, typ.
A	Controller A: Rainmaster TW-EGP (EXISTING by RAP Phase 1 construction)
L	Rainmaster TW-LA-1 lightning arrestor and ground rod. Install in locations shown per detail and manufacturer's instructions, typ.
	Remote Control Valve: TORO MODEL 220-26-7 BRASS RCV - see plan callout for valve size. Installer shall provide and install required Rainmaster TW type 2-wire decoders at each manifold as indicated for the number of valves at each manifold, and program per manufacturer's instructions.
	Remote Control Valve: TORO MODEL 220-27-9 1" BRASS RCV with TORO DDCWP-2-9V battery operated controller mounted inside valve box.
	Two piece Quick Coupling Valve: Rainbird 44LRC, with 44K key and SH-1 hose swivel. Provide one quick coupler key and hose swivel for each five quick coupler installed, minimum one quick coupler key.
	Ex. PVC sleeve under paving. Schedule 40 PVC sleeve shall be two pipe sizes greater than the piping which is to run in the sleeve, or 4" dia. for control wire without mainline. Cover depth shall be the same as the Mainline or Lateral Line.
	Mainline piping, PVC Class 200 gasketed pipe with restrained fittings as required per detail. 4" size, unless otherwise noted.
	PVC sch. 40 Lateral Line piping; solvent weld. Size as noted.
	4" Mainline Isolation Valve: Nibco #P-619-RW IPS push-on type gate valve or approved equal. Install per detail J5/L602, typ.
	Manifold gate valve. Install per detail J9/L602, typ.

IRRIGATION HEADS LEGEND

SYMBOL	DESCRIPTION	GPM	SPACING	NOZZLE PRESSURE	PRECIP. RATE	DETAIL NUMBER
3	**TORO T5PCKSS-RS #3.0 NOZZLE** Gear driven rotary pop-up with nozzle as noted, typ.	3.0	35'	70psi	0.69 in/hr	A13/ L602
07	**TORO T7PSS-02-#07 NOZZLE** Gear driven rotary pop-up with nozzle as noted,typ.	8.8	40'	70psi	0.74 in/hr	A13/ L602
12	**TORO T7PSS-02-#12 NOZZLE** Gear driven rotary pop-up with nozzle as noted, typ	13.8	47'	70psi	0.83 in/hr	A13/ L602
	TORO T7PSS-02-#12 NOZZLE Gear driven rotary pop-up with nozzle as noted, typ.	18.8	47'	70psi	0.82 in/hr	A13/ L602
	TORO T7PSS-02-#16 NOZZLE Gear driven rotary pop-up with nozzle as noted, typ.	17.5	53'	70 psi	--	A13/ L602
	TORO T7PSS-02-#27 NOZZLE Gear driven rotary pop-up with nozzle as noted, typ.	25.8	65'	70 psi	--	A13/ L602
	TORO 570-4P-PRXCOM 4" pop-up body with Precision Series nozzle with radius and arc as noted	var.	12-15'	30 psi	1.1 in/hr	A9/ L602
	TORO 570-4P-PRXCOM 4" pop-up body with FB25PC bubbler nozzle	.25	--	--	--	A9/ L602
	TORO 570-4P-PRXCOM 4" pop-up body with FB100PC bubbler nozzle	1.0	--	--	--	A9/ L602

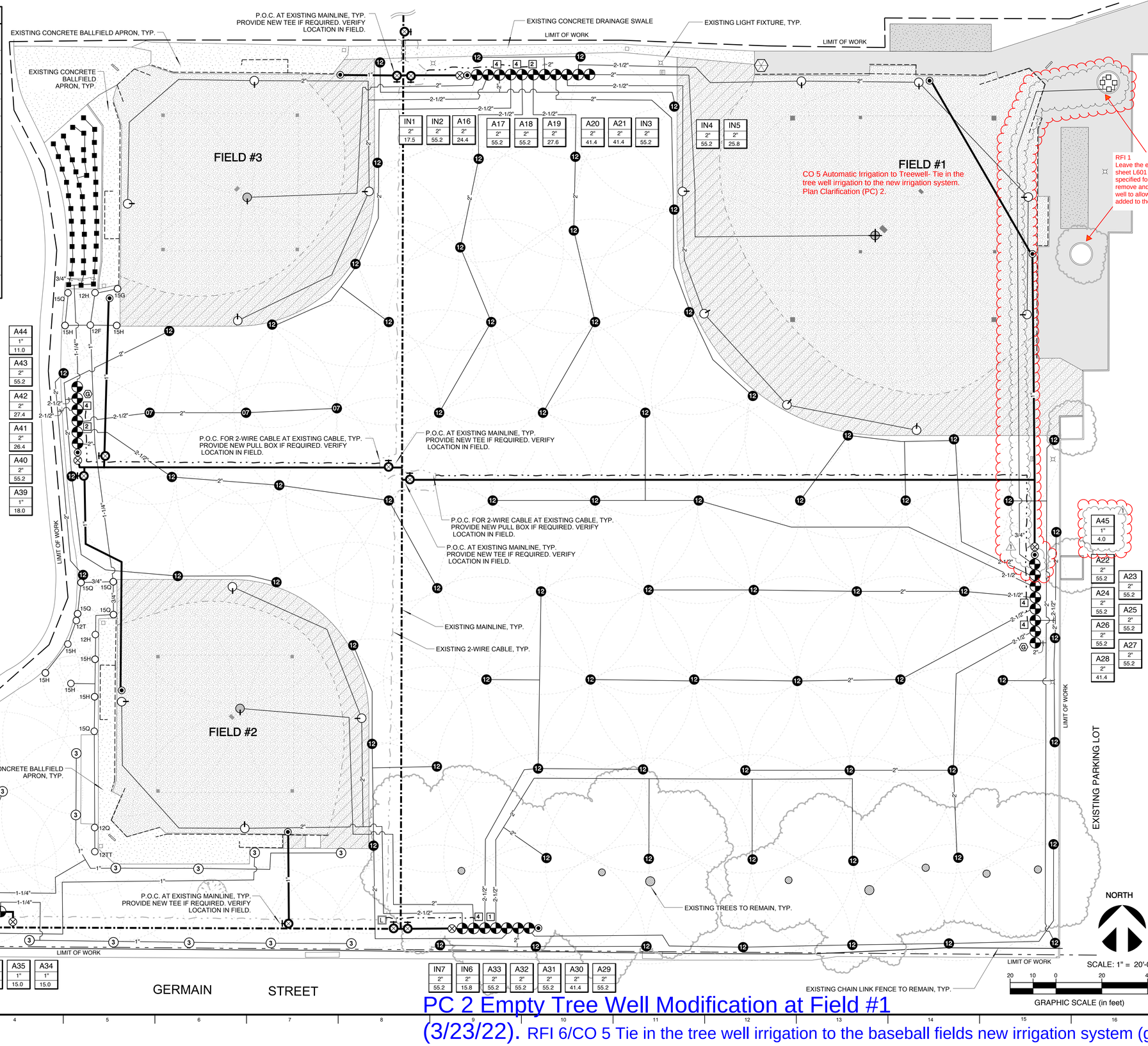
NOTE : All rotor heads shall be installed with pressure reducing swing joints at 70 psi. See detail A13/L602

2-WIRE SYSTEM EQUIPMENT LEGEND

- 1 Rainmaster #TW-D-1 one valve decoder. Install per manufacturer's instructions.
- 2 Rainmaster #TW-D-2 two valve decoder. Install per manufacturer's instructions.
- 4 Rainmaster #TW-D-4 four valve decoder. Install per manufacturer's instructions.
- G Rainmaster TW-LA-1 lightning arrestor and ground rod. Install in locations shown per manufacturer's instructions and per detail E1/L603, typ.
- Rainmaster TW-CAB-14 2-wire system cable. See details J1 & J9/L603.

A1 — Controller & Station No.
2" — Valve Size
XX.X — System GPM

IRRIGATION VALVE LEGEND



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

REVISION DATES (DESIGN STAGE ONLY)

Sheet Version 2.2

BUREAU OF ENGINEERING
CITY OF LOS ANGELES

NO.	DATE	BY
1WELL	3/17/22	RWF

BUILDING NO.

NO.	REVISIONS
1	PLAN CLARIFICATION 1- IRRIGATION & P.L.A.

INDEX NO.

LICENSED LANDSCAPE ARCHITECT RICHARD W. FISHER #3060 Exp. 9-30-21 STATE OF CALIFORNIA

DEPARTMENT OF PUBLIC WORKS
CITY OF LOS ANGELES

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

DATE	
11/07/19	RWF
11/07/19	RWF
11/07/19	RWF
11/07/19	RWF

LANDS. ARCHITECT: RICHARD W. FISHER ASLA CA LIC. #3060
ARCHITECTURAL DIVISION
DESIGNED BY: RICHARD W. FISHER ASLA
DRAWN BY: RICHARD W. FISHER ASLA
CHECKED BY: JANE ADRIAN
APPROVED BY: MAHMOOD KARIMZADEH AIA, PRINCIPAL ARCHITECT

CLIENT: DEPARTMENT OF RECREATION & PARKS
GENERAL MANAGER: MICHAEL A. SHULL

SHEET TITLE: IRRIGATION PLAN
PROJECT: CHATSWORTH PARK NORTH - OUTDOOR FIELD IMPROVEMENTS
ADDRESS: 22300 W. CHATSWORTH STREET, LOS ANGELES CA 91311

WORK ORDER NO. E170488
FILE NO. 185
DRAWING NO. L601
SHEET 7 OF 10 SHEETS
PLOTTED: 3/21/22, 2:07 PM

PC 2 Empty Tree Well Modification at Field #1 (3/23/22). RFI 6/CO 5 Tie in the tree well irrigation to the baseball fields new irrigation system (grid line 16 and L)

IRRIGATION EQUIPMENT LEGEND

SYMBOL	DESCRIPTION
I	New 4" **IRRIGATION** meter.
D	Existing **DOMESTIC** meter.
	Existing 4" **IRRIGATION** backflow device to remain, typ.
	Existing **DOMESTIC** backflow device to remain, typ.
A	Controller A: Rainmaster TW-EGP (EXISTING by RAP Phase 1 construction)
L	Rainmaster TW-LA-1 lightning arrestor and ground rod. Install in locations shown per detail and manufacturer's instructions, typ.
	Remote Control Valve: TORO MODEL 220-26-7 BRASS RCV - see plan callout for valve size. Installer shall provide and install required Rainmaster TW type 2-wire decoders at each manifold as indicated for the number of valves at each manifold, and program per manufacturer's instructions.
	Remote Control Valve: TORO MODEL 220-27-9 1" BRASS RCV with TORO DDCWP-2-9V battery operated controller mounted inside valve box.
	Two piece Quick Coupling Valve: Rainbird 44LRC, with 44K key and SH-1 hose swivel. Provide one quick coupler key and hose swivel for each five quick coupler installed, minimum one quick coupler key.
	Ex. PVC sleeve under paving. Schedule 40 PVC sleeve shall be two pipe sizes greater than the piping which is to run in the sleeve, or 4" dia. for control wire without mainline. Cover depth shall be the same as the Mainline or Lateral Line.
	Mainline piping, PVC Class 200 gasketed pipe with restrained fittings as required per detail. 4" size, unless otherwise noted.
	PVC sch. 40 Lateral Line piping; solvent weld. Size as noted.
	4" Mainline Isolation Valve: Nibco #P-619-RW IPS push-on type gate valve or approved equal. Install per detail J5/L602, typ.
	Manifold gate valve. Install per detail J9/L602, typ.

IRRIGATION HEADS LEGEND

SYMBOL	DESCRIPTION	GPM	SPACING	NOZZLE PRESSURE	PRECIP. RATE	DETAIL NUMBER
3	**TORO T5PCKSS-RS #3.0 NOZZLE** Gear driven rotary pop-up with nozzle as noted, typ.	3.0	35'	70psi	0.69 in/hr	A13/ L602
07	**TORO T7PSS-02-#07 NOZZLE** Gear driven rotary pop-up with nozzle as noted,typ.	8.8	40'	70psi	0.74 in/hr	A13/ L602
12	**TORO T7PSS-02-#12 NOZZLE** Gear driven rotary pop-up with nozzle as noted, typ	13.8	47'	70psi	0.83 in/hr	A13/ L602
	TORO T7PSS-02-#12 NOZZLE Gear driven rotary pop-up with nozzle as noted, typ.	18.8	47'	70psi	0.82 in/hr	A13/ L602
	TORO T7PSS-02-#16 NOZZLE Gear driven rotary pop-up with nozzle as noted, typ.	17.5	53'	70 psi	--	A13/ L602
	TORO T7PSS-02-#27 NOZZLE Gear driven rotary pop-up with nozzle as noted, typ.	25.8	65'	70 psi	--	A13/ L602
○	**TORO 570-4P-PRXCOM** 4" pop-up body with Precision Series nozzle with radius and arc as noted	var.	12-15'	30 psi	1.1 in/hr	A9/ L602
■	**TORO 570-4P-PRXCOM** 4" pop-up body with FB25PC bubbler nozzle	.25	--	--	--	A9/ L602
□	**TORO 570-4P-PRXCOM** 4" pop-up body with FB100PC bubbler nozzle	1.0	--	--	--	A9/ L602

NOTE : All rotor heads shall be installed with pressure reducing swing joints at 70 psi. See detail A13/L602

2-WIRE SYSTEM EQUIPMENT LEGEND

1 Rainmaster #TW-D-1 one valve decoder. Install per manufacturer's instructions.

2 Rainmaster #TW-D-2 two valve decoder. Install per manufacturer's instructions.

4 Rainmaster #TW-D-4 four valve decoder. Install per manufacturer's instructions.

Rainmaster TW-LA-1 lightning arrestor and ground rod. Install in locations shown per manufacturer's instructions and per detail E1/L603, typ.

Rainmaster TW-CAB-14 2-wire system cable. See details J1 & J9/L603.

A1 — Controller & Station No.
2" — Valve Size
XX.X — System GPM

IRRIGATION VALVE LEGEND

Provided by Evergreen

EXISTING CONCRETE BALLFIELD APRON, TYP.

P.O.C. AT EXISTING MAINLINE, TYP. PROVIDE NEW TEE IF REQUIRED. VERIFY LOCATION IN FIELD.

EXISTING CONCRETE DRAINAGE SWALE

LIMIT OF WORK

EXISTING LIGHT FIXTURE, TYP.

P.O.C. AT EXISTING QUICK COUPLING VALVE.

FIELD #3

FIELD #1

FIELD #2

IN1	IN2	A16	A17	A18	A19	A20	A21	IN3
2"	2"	2"	2"	2"	2"	2"	2"	2"
17.5	55.2	24.4	55.2	55.2	27.6	41.4	41.4	55.2

IN4	IN5
2"	2"
55.2	25.8

A44	A43	A42	A41	A40	A39
1"	2"	2"	2"	2"	1"
11.0	55.2	27.4	26.4	55.2	18.0

P.O.C. FOR 2-WIRE CABLE AT EXISTING CABLE, TYP. PROVIDE NEW PULL BOX IF REQUIRED. VERIFY LOCATION IN FIELD.

P.O.C. AT EXISTING MAINLINE, TYP. PROVIDE NEW TEE IF REQUIRED. VERIFY LOCATION IN FIELD.

P.O.C. FOR 2-WIRE CABLE AT EXISTING CABLE, TYP. PROVIDE NEW PULL BOX IF REQUIRED. VERIFY LOCATION IN FIELD.

P.O.C. AT EXISTING MAINLINE, TYP. PROVIDE NEW TEE IF REQUIRED. VERIFY LOCATION IN FIELD.

EXISTING MAINLINE, TYP.

EXISTING 2-WIRE CABLE, TYP.

A22	A23
2"	2"
55.2	55.2

A24	A25
2"	2"
55.2	55.2

A26	A27
2"	2"
55.2	55.2

A28
2"
41.4

EXISTING CONCRETE BALLFIELD APRON, TYP.

EXISTING PARK MAINTENANCE ROAD, TYP.

P.O.C. AT EXISTING MAINLINE, TYP. PROVIDE NEW TEE IF REQUIRED. VERIFY LOCATION IN FIELD.

EXISTING TREES TO REMAIN, TYP.

EXISTING PARKING LOT

EXISTING CHAIN LINK FENCE TO REMAIN, TYP.

A38	A37	A36	A35	A34
1"	1"	1"	1"	1"
6.0	18.0	9.0	15.0	15.0

IN7	IN6	A33	A32	A31	A30	A29
2"	2"	2"	2"	2"	2"	2"
55.2	15.8	55.2	55.2	55.2	41.4	55.2

GERMAIN STREET

LIMIT OF WORK

NORTH

SCALE: 1" = 20'-0"

20 10 0 20 40

GRAPHIC SCALE (in feet)

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

REVISION DATES (DESIGN STAGE ONLY)

Sheet Version 2.2

BUREAU OF ENGINEERING
OFFICIAL RECORD

BUREAU OF ENGINEERING
ENGINEERING
CITY OF LOS ANGELES

NO.	REVISIONS:	DATE:	BY:

BUILDING NO.

INDEX NO. RP-300115

LICENSED LANDSCAPE ARCHITECT RICHARD W. FISHER #2980 Exp. 9-30-21 STATE OF CALIFORNIA

DEPARTMENT OF PUBLIC WORKS
GARY LEE MOORE, P.E., ENV SP
CITY ENGINEER

	DATE
LANDS. ARCHITECT: RICHARD W. FISHER ASLA CA LIC. #2980	11/07/19
ARCHITECTURAL DIVISION	
DESIGNED BY: RICHARD W. FISHER ASLA	11/07/19
DRAWN BY: RICHARD W. FISHER ASLA	11/07/19
CHECKED BY: JANE ADRIAN	11/07/19
APPROVED BY: MAHMOOD KARIMZADEH AIA, PRINCIPAL ARCHITECT	

CITY OF LOS ANGELES
DEPARTMENT OF RECREATION & PARKS

CLIENT: DEPARTMENT OF RECREATION & PARKS
GENERAL MANAGER: MICHAEL A. SHULL

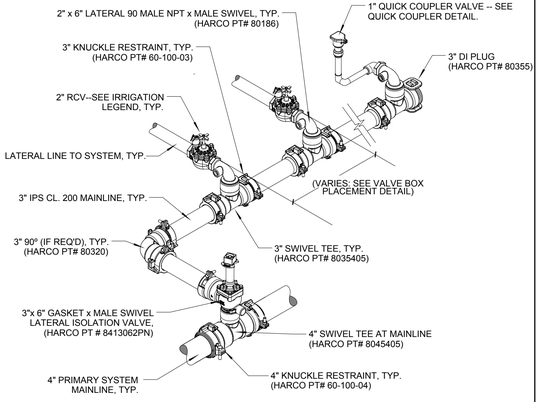
SHEET TITLE: IRRIGATION PLAN

PROJECT: CHATSWORTH PARK NORTH - OUTDOOR FIELD IMPROVEMENTS

ADDRESS: 22300 W. CHATSWORTH STREET, LOS ANGELES CA 91311

WORK ORDER NO. E170488
FILE NO. 185
DRAWING NO. L601
SHEET 7 OF 10 SHEETS

PLOTTED: 12/10/20, 7:48 AM

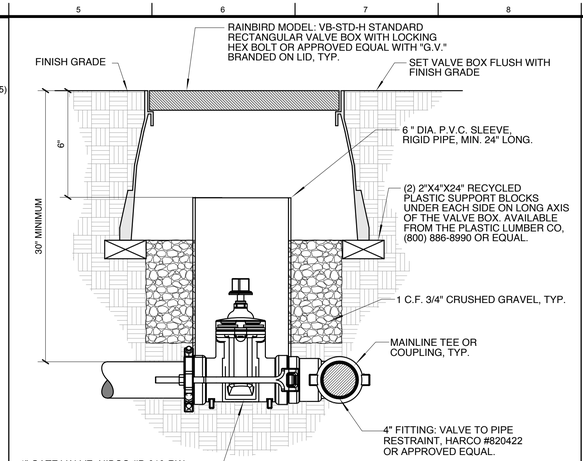


NOTES:
1.) ALL FITTINGS AND RESTRAINTS ARE AS AS MANUFACTURED BY HARCO FITTINGS (www.harcofittings.com) OR APPROVED EQUAL. INSTALL ALL FITTINGS AND RESTRAINTS PER MANUFACTURER'S INSTRUCTIONS.
2.) SEE VALVE BOX PLACEMENT, RCV INSTALLATION, AND QUICK COUPLER INSTALLATION DETAILS FOR ADDITIONAL INFORMATION.

ISOMETRIC

J1 VALVE MANIFOLD ASSEMBLY, 3" and Larger Mainline

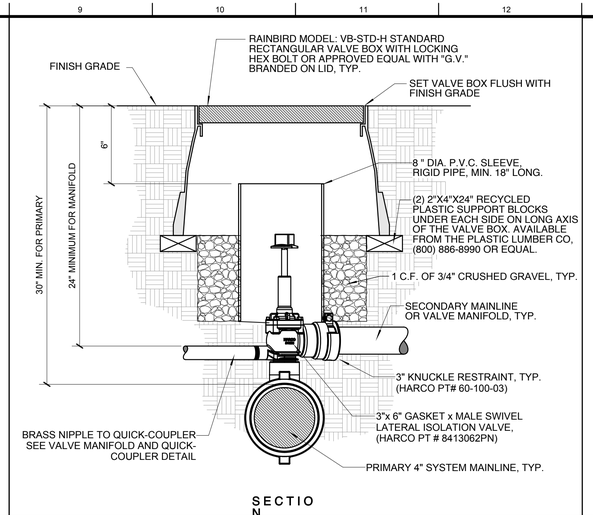
N.T.S. | BOE VERSION Dec/13 - RF | RP DETAIL L1312



SECTION

J5 4" MAINLINE ISOLATION VALVE

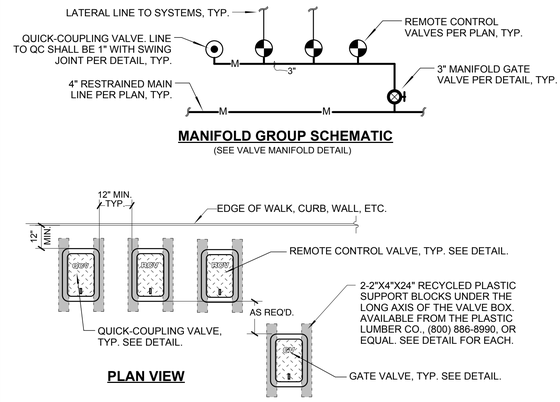
N.T.S. | RP DETAIL 1100



SECTION

J9 MANIFOLD GATE VALVE

N.T.S. | RP DETAIL 110



MANIFOLD GROUP SCHEMATIC
(SEE VALVE MANIFOLD DETAIL)

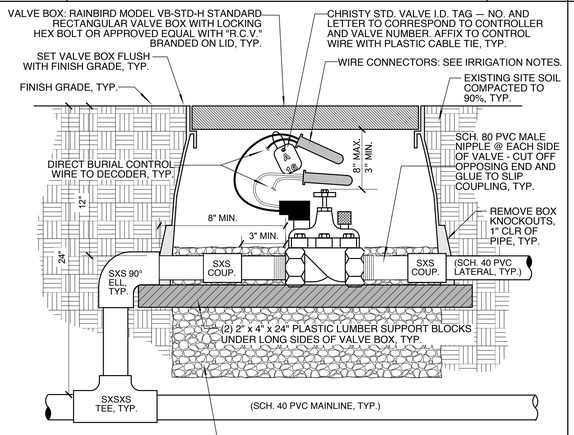
PLAN VIEW

NOTES:
1. ALL VALVES SHALL BE RUN OFF A MANIFOLD GROUP SIMILAR TO THAT SHOWN IN ABOVE SCHEMATIC.
2. ALL BOXES SHALL BE SQUARE TO ONE ANOTHER, AND TO EDGES OF ADJACENT FIXED OBJECTS.
3. ALL VALVE BOXES SHALL BE SET FLUSH TO FINISH GRADE.

RP VERSION 5-13-96 RLF, JPH, RCM

J13 VALVE BOX PLACEMENT

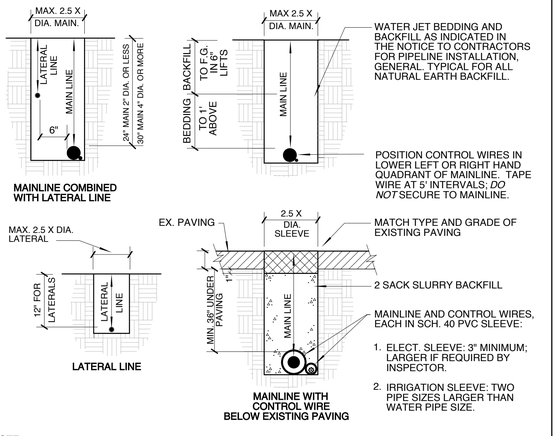
N.T.S. | RP DETAIL 141



NOTES:
1.) ALL PIPE AND FITTINGS SHALL BE SCHEDULE 40 PVC UNLESS NOTED.

E1 RCV INSTALLATION DETAIL: 2-WIRE SYSTEM

N.T.S. | RP DETAIL 14042

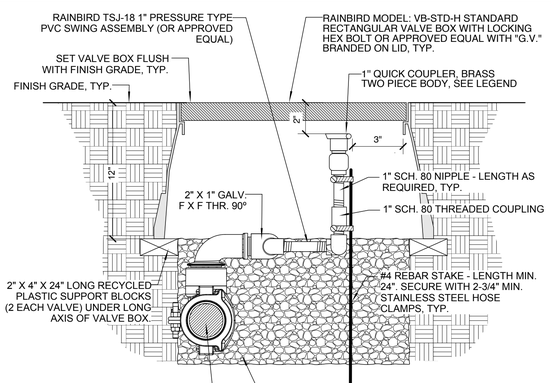


NOTE :
PIPE AND CONTROL WIRE CROSSING A VECHICULAR ROADWAY SHALL BE SLEEVED AS INDICATED ABOVE.
PIPE BEDDING AND BACKFILL SHALL BE WATER JETTED TO ACHIEVE PROPER DENSIFICATION.
SEE LANDSCAPE CONSTRUCTION NOTES, PIPELINE INSTALLATION GENERAL, FOR TRENCHING REQUIREMENTS.

RP VERSION 6-5-98 / RCM, JPH

A1 IRRIGATION TRENCHING DETAIL

N.T.S. | RP DETAIL 135

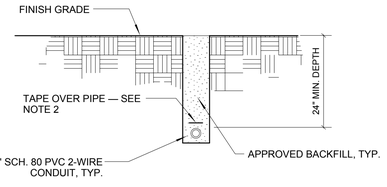


NOTES:
1.) SEE DETAIL J1/L604 FOR MANIFOLD PIPE & FITTINGS.
2.) SEE DETAILS E1/L605 AND J9/L605 FOR ADDITIONAL WIRING INFORMATION

VERSION 01-11-08 RWF

E5 QUICK COUPLING VALVE INSTALLATION AT MANIFOLD

N.T.S. | RP DETAIL 1202



SECTION

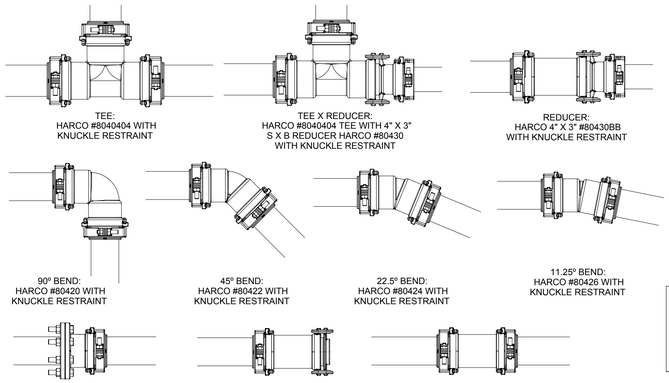
NOTES:

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

RP VERSION 3-1-92 JPH

A5 CONTROL WIRE WITHOUT MAINLINE

N.T.S. | BOE VERSION Jan/07 | RP DETAIL L1422

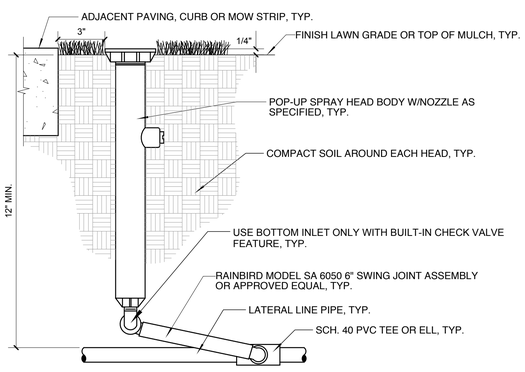


NOTE: ADDITIONAL PIPE & FITTING CONFIGURATIONS MAY BE NECESSARY TO COMPLETE WORK SHOWN ON PLANS DUE TO UNFORSEEN SITE CONDITIONS. CONSULT FITTING MANUFACTURER FOR ADDITIONAL INFORMATION.

USE #60-100-03 KNUCKLE RESTRAINT ON FITTINGS WHERE DESIGNATED.

A9 POP-UP SPRAY HEAD INSTALLATION

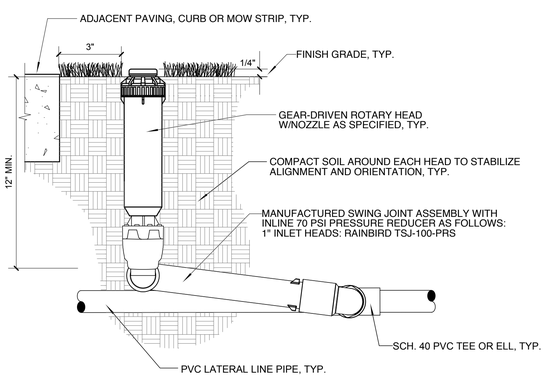
N.T.S. | RP DETAIL 162-S



NOTES:
1. PLACE ALL HEADS 1/4" ABOVE FINISH GRADE AT INITIAL INSTALLATION. SET HEADS 3" AWAY FROM WALKS, CURBS, OR MOW STRIPS.
2. INSTALL ALL HEADS PERPENDICULAR TO FINISH GRADE.
3. THOROUGHLY FLUSH ALL LATERAL LINE PIPES TO REMOVE DIRT AND DEBRIS BEFORE INSTALLATION OF NOZZLES.
4. ADJUST ALL HEADS TO PROPER ARC AND RADIUS AS NECESSARY TO ACHIEVE PROPER COVERAGE AND UNIFORMITY. IF PROPER COVERAGE AND UNIFORMITY IS NOT ACHIEVED WITH THE SPECIFIED NOZZLE, CONTRACTOR SHALL CHANGE NOZZLE AS NEEDED IN CONSULTATION WITH LANDSCAPE ARCHITECT UNTIL DESIRED PERFORMANCE IS ACHIEVED.

A13 GEAR-DRIVEN ROTOR HEAD INSTALLATION

N.T.S. | RP DETAIL 162-R



NOTES:
1. PLACE ALL HEADS 1/4" ABOVE FINISH GRADE AT INITIAL INSTALLATION. SET HEADS 3" AWAY FROM WALKS, CURBS, OR MOW STRIPS.
2. INSTALL ALL HEADS PERPENDICULAR TO FINISH GRADE.
3. THOROUGHLY FLUSH ALL LATERAL LINE PIPES TO REMOVE DIRT AND DEBRIS BEFORE INSTALLATION OF NOZZLES.
4. ADJUST ALL HEADS TO PROPER ARC AND RADIUS AS NECESSARY TO ACHIEVE PROPER COVERAGE AND UNIFORMITY. IF PROPER COVERAGE AND UNIFORMITY IS NOT ACHIEVED WITH THE SPECIFIED NOZZLE, CONTRACTOR SHALL CHANGE NOZZLE AS NEEDED IN CONSULTATION WITH LANDSCAPE ARCHITECT UNTIL DESIRED PERFORMANCE IS ACHIEVED.

REVISED: 6/14/06 RWF/SLG

E9 4" RESTRAINED MAINLINE FITTINGS

N.T.S.

MAINLINE PIPE FITTINGS:

1.) DUCTILE IRON FITTINGS WILL BE REQUIRED FOR ALL MAINLINE FITTINGS (CONSTANT PRESSURE) FOR 3" OR LARGER PIPE UNDER THE FOLLOWING CONDITIONS:

A. AS SHOWN ON OTHER DETAILS INCLUDED WITHIN IN THESE PLANS AND SPECIFICATIONS.

B. AT ALL DIRECTIONAL FITTINGS SUCH AS TEES, ELBOWS, ETC., AND REDUCERS, ADAPTERS AND COUPLINGS AS NOTED OR DETAILED.

2.) DUCTILE IRON FITTINGS SHALL BE A "PUSH-ON" TYPE FOR IPS SIZED PVC PIPE BY HARCO FITTINGS (www.harcofittings.com) OR APPROVED EQUAL. CONTACT: BRIAN HURLEY (562) 400-4656

3.) ALL GASKETED PVC PIPE JOINTS WITHIN 25' OF DUCTILE IRON DIRECTIONAL FITTINGS SHALL BE RESTRAINED USING PIPE TO PIPE RESTRAINT SHOWN. FOR END CAPS AND TERMINAL GATE VALVES, ALL GASKETED PVC PIPE JOINTS WITHIN 40' SHALL BE RESTRAINED USING PIPE TO PIPE RESTRAINT SHOWN. REFER TO MANUFACTURERS FITTING RESTRAINT GUIDE FOR ADDITIONAL INFORMATION.

4.) ALL BOLTS ON FITTING RESTRAINTS SHALL BE TIGHTENED USING A TORQUE WRENCH ONLY FOLLOWING THE MANUFACTURER'S SPECIFICATIONS. THE CONTRACTOR SHALL BE PREPARED TO VERIFY THE TORQUE OF THE BOLTS WITH A TORQUE WRENCH IN THE PRESENCE OF THE BCA INSPECTOR AND SHALL HAVE A TORQUE WRENCH AVAILABLE ON SITE UNTIL JOB ACCEPTANCE.

5.) GLUED JOINTS **SHALL NOT BE USED** IN ANY MAINLINE PVC FITTINGS OR PIPE 3" OR LARGER IN DIAMETER UNLESS SPECIFICALLY DENOTED ON PLANS OR DETAILS INCLUDED IN THIS DRAWING SET.

6.) THRUST BLOCKS **SHALL NOT BE USED** FOR ANY MAINLINE FITTINGS UNLESS SPECIFICALLY DESIGNATED IN PLANS OR DETAILS.

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.

REVISION DATES (DESIGN STAGE ONLY)

Sheet Version 2.2

BUREAU OF ENGINEERING — CITY OF LOS ANGELES

BUILDING NO.

INDEX NO. RP-300115

NO.	REVISIONS	DATE	BY
1			
2			
3			
4			
5			

LICENSED LANDSCAPE ARCHITECT — RICHARD W. FISHER #3660 — Exp. 9-30-21 — STATE OF CALIFORNIA

DEPARTMENT OF PUBLIC WORKS

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

ARCHITECTURAL DIVISION	DATE
LANDS. ARCHITECT: RICHARD W. FISHER ASLA CA LIC. #3660	11/07/19
DESIGNED BY: RICHARD W. FISHER ASLA	11/07/19
DRAWN BY: RICHARD W. FISHER ASLA	11/07/19
CHECKED BY: JANE ADRIAN	11/07/19
APPROVED BY: MAHMOOD KARIMZADEH AIA, PRINCIPAL ARCHITECT	

CITY OF LOS ANGELES

CLIENT: DEPARTMENT OF RECREATION & PARKS
GENERAL MANAGER: MICHAEL A. SHULL

SHEET TITLE: IRRIGATION DETAILS, SHEET 1

PROJECT: CHATSWORTH PARK NORTH - OUTDOOR FIELD IMPROVEMENTS

ADDRESS: 22300 W. CHATSWORTH STREET, LOS ANGELES CA 91311

WORK ORDER NO. E170488

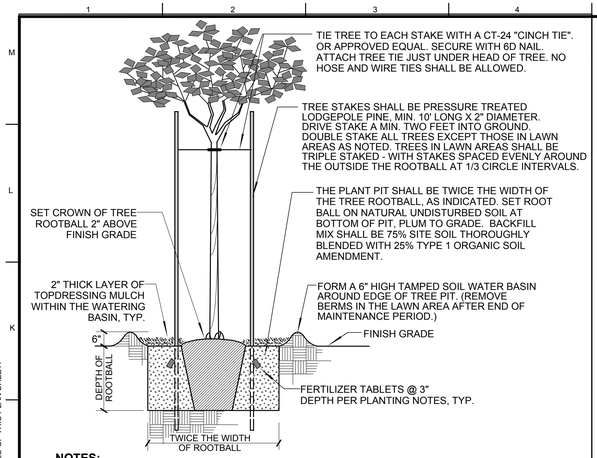
FILE NO. 185

DRAWING NO. L602

SHEET 8 OF 10 SHEETS

PLOTTED: 12/10/20, 7:48 AM

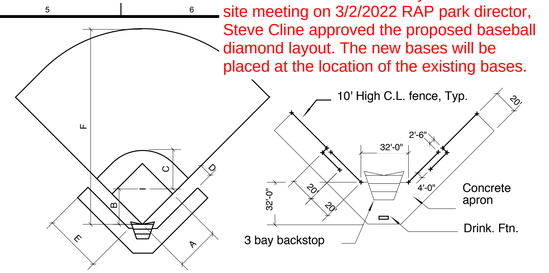
RFI 7 Baseball Diamond Layout- 3/3/22 Per site meeting on 3/2/2022 RAP park director, Steve Cline approved the proposed baseball diamond layout. The new bases will be placed at the location of the existing bases.



NOTES:
1. ALL TREES PLANTED IN LAWN AREAS SHALL HAVE A 36" DIAMETER UNPLANTED MULCHED AREA AROUND EACH TREE TRUNK.
2. WHEN PLANTING TREES IN AREAS TO RECEIVE SOD, CONTRACTOR SHALL COMPENSATE FOR THE THICKNESS OF THE SOD AND SET TOP OF TREE ROOTBALL APPROPRIATELY TO AVOID A LOW AREA AND PONDING OF WATER.

RP VERSION 03-18-03 / RDF, JPH, SHD, SLG

J1	TREE PLANTING AND STAKING		
N.T.S.	BOE VERSION Mar/08 RF, SD	RP DETAIL L2000	



BASEBALL DIAMOND LAYOUT
N.T.S.

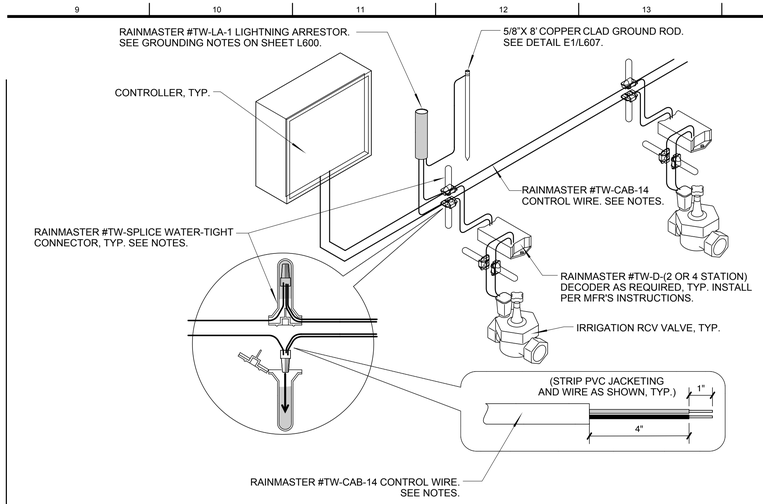
BACKSTOP APRON
N.T.S.

A	BASE LINE LENGTH	60'	75'	90'
B	PITCHER'S PLATE	35' (see note 4), 46'	54'	60'–6"
C	EDGE OF INFIELD	60'R	(see note 3)	90'R
D	DISTANCE TO FOUL LINE	18'	18'	18'
E	FOUL LINE FENCE LENGTH	80'	–	120'
F	DISTANCE TO OUTFIELD	190'	250'	350'

NOTES:
1. PITCHING DISTANCES ARE MEASURED FROM THE FRONT OF THE PITCHERS PLATE TO REAR POINT OF HOME PLATE.
2. 1ST AND 3RD BASES ARE MEASURED FROM THE REAR TIP OF HOME PLATE TO BACK CORNER OF BASE. 2ND BASE IS MEASURED FROM CENTER OF BASE TO BASELINE.
3. 75' BASELINE CAN BE PART OF A 90' BASELINE LAYOUT.
4. BOYS 10 ANDUNDER; GIRLS 12 AND UNDER.

VERSION 1-25-01 RDF, JPH

J5	BASEBALL/SOFTBALL DIAMOND LAYOUT	
N.T.S.		RP DETAIL 541



WIRING NOTES:
1.) CONTROL WIRE SHALL BE RAINMASTER #TW-CAB-14 OR APPROVED EQUAL: POLYETHYLENE DOUBLE-JACKETED OR UF-B UL PVC DOUBLE-JACKETED TWO-CONDUCTOR SOLID CORE DESIGNED FOR DIRECT BURIAL WITH INSULATION 3/16 INCH (.060") THICK, HIGH DENSITY, SUNLIGHT RESISTANT INCASED IN AN OUTER JACKET OF POLYETHYLENE OR PVC CONFORMING TO ICEA S-GL-402 OR NEMA WC5, HAVING A MINIMUM WALL THICKNESS OF .045 INCHES. (TWO-WIRE POLYETHYLENE "TWISTED" CABLE OR SINGLE STRAND 14-GAUGE PVC IRRIGATION WIRE DOES **NOT** CONFORM TO THESE SPECIFICATIONS AND WILL NOT BE ACCEPTED).

2.) ALL WIRE INSULATION SHALL BE INTACT AND FREE OF NICKS AND CUTS

3.) ALL 2-WIRE CABLE SHALL BE INSTALLED IN 1" MIN. SCH. 80 PVC CONDUIT 24" MIN. BELOW GRADE WITH PULL BOXES @ 150' MAX.

4.) ATTACHING DECODERS:

• TWIST WIRES TO PROVIDE A SOLID MECHANICAL CONNECTION BEFORE SECURING THE ATTACHMENT BY ADDING THE WIRE NUT.

• RAINMASTER #TW-SPLICE-14 OR APPROVED EQUAL (SURESPLICE™) GEL FILLED CONNECTORS (OR SIMILAR) SHALL BE USED ON ALL CONNECTIONS.

• GREASE FILLED WIRE NUTS WILL **NOT** BE ACCEPTED.

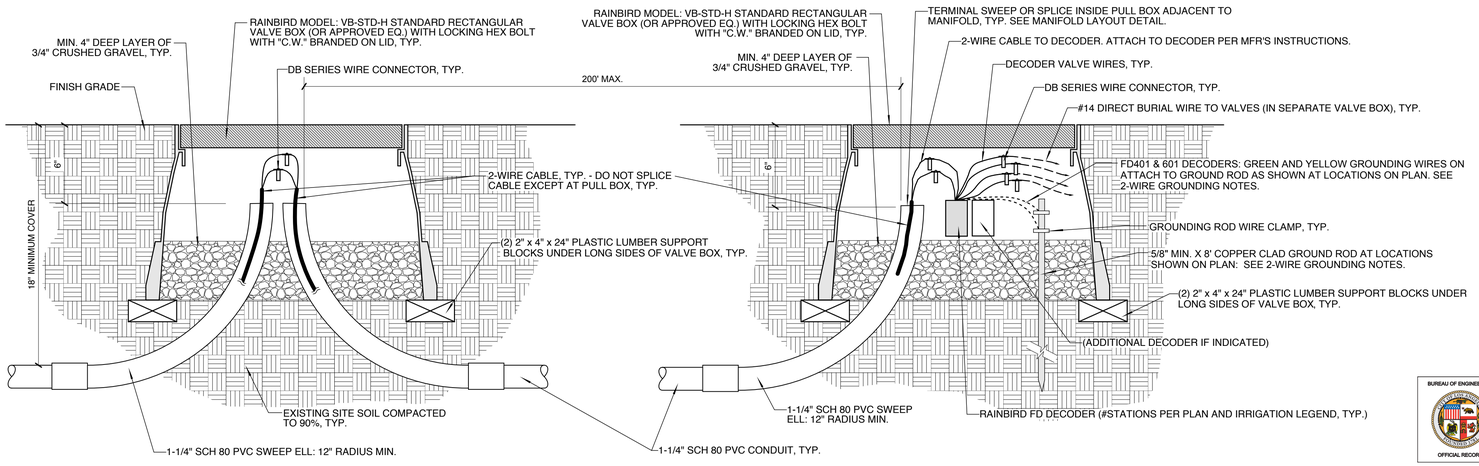
• TEST ALL CONNECTIONS BEFORE IMMERSING THE WIRE NUT IN THE GEL-FILLED CAP.

• ADHERE TO ALL LOCAL AND NATIONAL BUILDING AND ELECTRICAL CODES.

• CONTRACTOR SHALL GUARANTEE ALL WIRE CONNECTIONS TO BE ABSOLUTELY WATER TIGHT.

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

J9	2-WIRE IRRIGATION SYSTEM WIRING (RAINMASTER OR EQUAL)	
N.T.S.		



NOTES:

1.) ALL CONDUIT AND FITTINGS SHALL BE SCHEDULE 80 PVC. CHANGES IN DIRECTION OF CONDUIT PATH SHALL NOT EXCEED 360º FOR EACH SECTION BETWEEN PULL BOXES.

2.) MAXIMUM DISTANCE BETWEEN PULL BOXES SHALL BE 200 FEET.

3.) MAXIMUM LENGTH OF SECONDARY WIRE PATH (14 AWG) FROM FIELD DECODER TO SOLENOID IS 450 FEET.

4.) PROVIDE A COIL OF MIN. 24" OF 2-WIRE CABLE AT EACH SPLICE OR DECODER CONNECTION POINT.

TWO-WIRE SYSTEM GROUNDING REQUIREMENTS:

SURGE PROTECTION USING PROPER GROUNDING RODS IS REQUIRED FOR PROTECTION AGAINST SURGE DAMAGE DUE TO LIGHTNING OR OTHER ELECTRICAL SURGE EVENTS. CONFORMANCE TO THIS SURGE SUPPRESSION SPECIFICATION IS NECESSARY TO RETAIN WARRANTY PROTECTION UNDER MANUFACTURER'S WARRANTY TERMS.

THE INSTALLATION SHALL CONFORM TO MANUFACTURER'S INSTRUCTIONS, AND MUST MEET OR EXCEED THE AMERICAN SOCIETY OF IRRIGATION CONSULTANTS (ASIC) EARTH GROUNDING GUIDELINE 100-2002. HTTP://WWW.ASIC.ORG/UPLOADS/ASSETS/011007_121320_ASIC_GROUNDING_GUIDELINES.DOC

GROUND RODS AS REFERRED TO IN THIS SPECIFICATION SHALL CONFORM TO THE FOLLOWING STANDARDS:

1.) ALL GROUNDING RODS SHALL BE BARE COPPER OF 5/8" DIAMETER OR GREATER, AND 8' LENGTH OR GREATER.

2.) A MEASURED RESISTANCE READING OF NO MORE THAN 10 OHMS IS NECESSARY AT EACH LIGHTNING ARRESTOR. ASIC SPEC: SECTION 7.0 – MEASURING RESISTANCE, ITEM A.

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

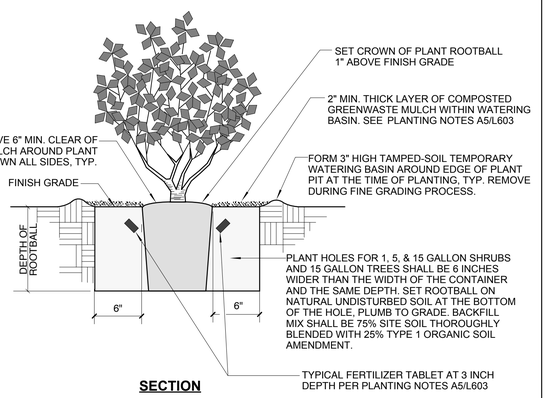
UNDER NO CIRCUMSTANCES SHOULD A GROUND ROD BE INSTALLED IN OR UNDER A VALVE BOX, METER BOX OR ELECTRICAL BOX.

CONNECTIONS TO GROUNDING RODS
ALL CONNECTIONS TO GROUND RODS SHALL CONFORM TO ASIC EARTH GROUNDING GUIDELINE 100-2002, AND SHALL CONSIST OF A SCREW CLAMP TYPE OF CONNECTION.

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

BUREAU OF ENGINEERING
OFFICIAL RECORD

E1	2-WIRE CABLE INSTALLATION AND GROUNDING	
N.T.S.		



SECTION

NOTE: DELETE FERTILIZER TABLETS AND MULCH ON TOP OF SHRUB ROOTBALL FOR CALIF. NATIVE PLANTS UNLESS NOTED OTHERWISE.

RP VERSION 10-22-98 / JPH, SHD

A1	SHRUB PLANTING	
N.T.S.	BOE VERSION Sep/07 RF	RP DETAIL L2030

PLANTING NOTES

LANDSCAPE MATERIALS:

FERTILIZER TABLETS
FERTILIZER TABLETS FOR TREE PLANTING SHALL BE GRO-POWER PLANTING TABLETS, 7 GRAM 12-8-8 (N-P-K) 20% HUMUS, 4% HUMIC ACIDS, 3.5% SULFUR, 2% IRON, MICRONUTRIENTS, AS MANUFACTURED BY GRO-POWER INC., 5065 TELEPHONE AVENUE, CHINO, CA 91710 (909) 393-3744.

CONTACT HERBICIDE
SHALL BE A WATER-SOLUBLE HERBICIDE FOR NON-SELECTIVE CONTROL OF WEEDS, OF A TYPE APPROVED BY THE DEPARTMENT OF RECREATION AND PARKS.

PRE-EMERGENT HERBICIDE
SHALL BE BALAN GRANULAR, BY ELANCO, OR AN APPROVED EQUAL. ALL PRE-EMERGENT HERBICIDES, WHEN REQUIRED, SHALL BE SPECIFIED AND APPLIED BY A LICENSED PEST CONTROL ADVISOR.

TOP DRESSING MULCH
SHALL BE SEASONED TREE CHIP MULCH, FREE ALL FOREIGN MATTER INCLUDING WEED AND TREE SEEDS. MULCH CHIP SIZE SHALL BE MINIMUM ONE (1) INCH IN DIAMETER AND NOT MORE THAN TWO (2) INCHES IN DIAMETER. SUBMIT SAMPLE OF MULCH AND SOURCE TO THE PROJECT MANAGER OR BCA INSPECTOR FOR APPROVAL PRIOR TO APPLICATION.

PLANT MATERIALS:

A. **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. IN ALL CASES, BOTANICAL NAMES TAKE PRECEDENCE OVER COMMON NAMES.

B. **QUALITY**: ALL PLANTS SHALL HAVE A GROWTH HABIT NORMAL TO THE SPECIES IN ACCORDANCE WITH U.S.A. STANDARDS FORE NURSERY STOCKS. LATEST EDITIONS; SHALL BE SOUND, HEALTHY, VIGOROUS AND FREE FROM INSECT PESTS, PLANT DISEASE, SUN SCALDS, FRESH BARK ABRASIONS, EXCESSIVE ABRASIONS OR OTHER OBJECTIONABLE DISFIGUREMENTS. TREE TRUNKS SHALL HAVE NORMAL WELL-DEVELOPED BRANCH SYSTEMS, AND VIGOROUS AND FIBROUS ROOT SYSTEM, NOT ROOT BOUND AND SHALL BE FREE OF KINKED OR GIRDLING ROOTS.

C. **TYPE AND SIZE**: PLANT MATERIALS SHALL BE AS LISTED ON THE CONTRACT DRAWINGS, UNLESS OTHERWISE INSTRUCTED BY THE PROJECT MANAGER. IN CASE OF CONFLICT BETWEEN THE PLANT SCHEDULE TOTALS AND TOTAL PLANT COUNT OF THE CONTRACT DOCUMENTS, THE CONTRACTOR SHALL THE HIGHER NUMBER OF PLANTS.

D. **DELIVERY OF PLANT MATERIAL**: SHALL BEGIN ONLY WHEN IT IS READY FOR THE WORK AND AFTER THE INSPECTIONS ARE MADE AND ANY REQUIRED SOIL SAMPLES AND TESTS HAVE BEEN REVIEWED BY THE PROJECT MANAGER. ALL MATERIALS FURNISHED FOR THE WORK SHALL BE NOT LESS THAN THE REVIEWED SAMPLE. UPON DELIVERY, CONTRACTOR SHALL TAG ONE PLANT OF EACH VARIETY FOR IDENTIFYING PURPOSES.

E. **PRUNING**: OTHER THAN NORMAL SIDE PRUNING DURING THE GROWTH PERIOD, NO PRUNING SHALL BE DONE PRIOR TO THE INSPECTION AT THE NURSERY.

F. **TREES**: ALL TREES SHALL CONFORM TO TYPES, SIZES AND HEIGHTS NOTED ON THE CONTRACT DRAWINGS. ALL TREES SHALL BE MEASURED FOR HEIGHT FROM THE ROOT CROWN TO THE LAST DIVISION OF THE TERMINAL LEADER AND MEASURED FOR THE DIAMETER 3 FEET ABOVE THE ROOT CROWN. ALL PALM TREES SHALL BE MEASURED FOR HEIGHT FROM THE ROOT CROWN TO THE BROWN TRUNK AND MEASURED FOR THE DIAMETER 3 FEET ABOVE THE ROOT CROWN. TREES SHALL STAND ERECT WITHOUT SUPPORT.

ALL TREES SHALL BE STAKED AS DESIGNATED ON THE CONTRACT DRAWINGS. WOOD TREE STAKES SHALL BE 2 INCHES IN DIAMETER BY 10 FEET LONG, LODGEPOLE GRADE, PRESSURE TREATED, CAPABLE OF STANDING IN THE GROUND AT LEAST TWO YEARS.

REQUIRED SUBMITTALS:
CONTRACTOR SHALL PROVIDE SUBMITTALS FOR APPROVAL FOR ALL PLANTING MATERIALS, FERTILIZERS HERBICIDES AND AMENDMENTS.

SOIL PREPARATION:
THE EXISTING "CLASS C" TOPSOIL SHALL BE USED OR MAINTAINED IN PLACE FOR ALL PLANTED AND TURF AREAS. FOR CONTAINER PLANTS AND TREE PLANTING, THE BACKFILL MIX SHALL BE 80% EXISTING "CLASS C" TOPSOIL, AND 20% ORGANIC COMPOST THROUGHLY BLENDED TOGETHER TO CREATE A HOMOGENOUS MIX.

MULCHING:
ALL NON-TURF PLANTING AREAS SHALL RECEIVE 4" OF TOP DRESSING MULCH. IMMEDIATELY PRIOR TO PLACEMENT OF THE MULCH, THESE AREAS SHALL RECIEVE AN APPLICATION OF PRE-EMERGENT HERBICIDE PER THE MANUFACTURER'S INSTRUCTIONS.

MAINTENANCE AND ESTABLISHMENT PERIOD:
THE MAINTENANCE AND ESTABLISHMENT PERIOD SHALL BE FOR A PERIOD OF 120 DAYS UNLESS EXTENDED AS DESCRIBED IN THIS SECTION. THE MAINTENANCE AND ESTABLISHMENT PERIOD SHALL BE STARTED WHEN ALL PLANTING AND RELATED WORK HAS BEEN COMPLETED IN ACCORDANCE WITH THE CONTRACT DOCUMENTS AND APPROVED BY THE PROJECT MANAGER. THE BEGINNING OF THE PLANT ESTABLISHMENT PERIOD SHALL BE DETERMINED BY AN ON SITE REVIEW BY THE PROJECT MANAGER. IN SEEDED TURF AREAS, THE ESTABLISHMENT PERIOD SHALL BEGIN WHEN SUFFICIENT GERMINATION HAS BEEN ACHIEVED TO DEMONSTRATE THAT A HIGH PERCENTAGE OF THE TURF AREAS SHOULD MEET THE COVERAGE REQUIREMENTS. IF THE INITIAL GERMINATION IN ANY AREA IS INADEQUATE TO PROVIDE THE REQUIRED COVERAGE, THE CONTRACTOR SHALL CONDUCT ADDITIONAL REPAIR SEEDING IN THOSE AREAS PROMPTLY.

THE CONTRACTOR SHALL IMMEDIATELY REPLACE ANY AND ALL PLANT MATERIALS AND/OR GRASS WHICH, FOR ANY REASON DIES OR IS DAMAGED WHILE UNDER THE CONTRACTORS CARE. REPLACEMENT SHALL BE MADE WITH SEED AND/OR PLANTS AS INDICATED OR SPECIFIED FOR THE ORIGINAL PLANTING.

THE CONTRACTOR SHALL BE RESPONSIBLE FOR MAINTENANCE WITHIN THE AREA OF WORK THROUGHOUT THE PERIOD OF CONSTRUCTION AND THE PLANT ESTABLISHMENT PERIOD. BROKEN OR VANDALIZED TREES, SHRUBS, OR TREE STAKES SHALL BE REPAIRED/REPLACED TO A CONDITION AS INITIALLY INSTALLED WITHIN SEVEN (7) DAYS OF DAMAGE. THE MAINTENANCE SHALL INCLUDE CONTINUOUS OPERATIONS OF PICKING UP TRASH, WATERING, THE REMOVAL OF ALL WEEDS IN PLANTING AREAS AND ALL BROAD LEAF WEEDS IN LAWN AREAS, MOWING, ROLLING, TRIMMING, FERTILIZATION, SPRAYING, CONTROL OF PESTS, INSECTS AND RODENTS, RESEEDING, PLANT REPLACEMENT (IRRESPECTIVE OF CAUSE), OR ANY OTHER OPERATIONS NECESSARY TO ASSURE NORMAL PLANT GROWTH AND THE COLLECTION AND REMOVAL OF ALL TRASH WITHIN THE LIMITS OF WORK.

THE CONTRACTOR SHALL MAINTAIN THE AREA OF WORK AT MAXIMUM SEVEN (7) DAY INTERVALS AND PERFORM ANY NEEDED MOWING OF EXISTING LAWNS WITHIN THE AREA OF WORK WHEN THE GRASS REACHES A THREE (3) INCH HEIGHT MAXIMUM. SIX WEEKS AFTER LAWN SEEDING GERMINATION THE CONTRACTOR SHALL APPLY A SLOW RELEASE 38-0-0 GRANULAR FERTILIZER AT A RATE OF 15 POUNDS PER 1000 SQ. FT. TO ALL LAWN AREAS.

ALL TURF AREAS SHALL BE OF THE GRASS SEED OR SOD SPECIFIED AND SHALL BE FREE FROM ALL BROAD LEAF WEEDS. THE LAWN SHALL NOT BE ALLOWED TO GROW HIGHER THAN THREE (3) INCHES AND SHALL BE MOWED TO A ONE AND ONE HALF (1-1/2) INCH HEIGHT. THE LAWN SHALL BE MOWED AT LEAST TWICE DURING THE PLANT ESTABLISHMENT PERIOD. ALL LAWN AREAS SHALL HAVE 95 PERCENT COVERAGE WITH BARE AREAS NOT EXCEEDING THREE SQUARE INCHES AT THE END OF THE PLANT ESTABLISHMENT PERIOD. TREES SHALL BE HEALTHY AND VIGOROUS AT THE COMPLETION OF THE PLANT ESTABLISHMENT PERIOD.

ANY MALFUNCTIONS OF, OR DAMAGE TO, THE IRRIGATION SYSTEM CAUSED BY THE CONTRACTOR IN THE PROSECUTION OF HIS WORK SHALL BE REPAIRED WITHIN 24 HOURS.

THE DESIGNATED PLANT ESTABLISHMENT PERIOD IS PART OF THE TOTAL CONTRACT TIME. THE PLANT ESTABLISHMENT PERIOD WILL BE EXTENDED AT FOURTEEN (14) DAY INTERVALS IF, AT THE END OF THE PLANT ESTABLISHMENT PERIOD, THE PLANTING, IRRIGATION AND OTHER IMPROVEMENTS DO NOT REFLECT THE INTENT OF THE PLANS AND LANDSCAPE CONSTRUCTION NOTES. ALL EXTENSIONS OF THE PLANT ESTABLISHMENT PERIOD SHALL BE SUBJECT TO THE ASSESSMENT OF LIQUIDATED DAMAGES, (308-6).

ALL TREES AND SHRUBS 15 GALLON SIZE OR LARGER SHALL BE GUARANTEED FOR A PERIOD OF ONE (1) YEAR FROM THE END OF THE PLANT ESTABLISHMENT PERIOD.

A5	PLANTING NOTES	

BUREAU OF ENGINEERING
ENGINEERING
CITY OF LOS ANGELES

NO.	REVISIONS	DATE	BY

BUILDING NO.
INDEX NO. RP-300115

LICENSED LANDSCAPE ARCHITECT ★ RICHARD W. FISHER #3060 ★ STATE OF CALIFORNIA Exp. 9-30-21

BUREAU OF PUBLIC WORKS
DEPARTMENT OF ENGINEERING

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

	ARCHITECTURAL DIVISION	DATE
LANDS. ARCHITECT:	RICHARD W. FISHER ASLA CA LIC. #3060	11/07/19
DESIGNED BY:	RICHARD W. FISHER ASLA	11/07/19
DRAWN BY:	RICHARD W. FISHER ASLA	11/07/19
CHECKED BY:	JANE ADRIAN	11/07/19
APPROVED BY:	MAHMOOD KARIMZADEH AIA, PRINCIPAL ARCHITECT	

CITY OF LOS ANGELES
CLIENT: DEPARTMENT OF RECREATION & PARKS
GENERAL MANAGER: MICHAEL A. SHULL

SHEET TITLE: IRRIGATION DETAILS, SHEET 2

PROJECT: CHATSWORTH PARK NORTH - OUTDOOR FIELD IMPROVEMENTS

ADDRESS: 22300 W. CHATSWORTH STREET, LOS ANGELES CA 91311

WORK ORDER NO. E170488
FILE NO. 185
DRAWING NO. L603
SHEET 9 OF 10 SHEETS
PLOTTED: 4/21/21, 9:46 PM

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

REVISION DATES (DESIGN STAGE ONLY)

Sheet Version 2.2

IRRIGATION CONSTRUCTION NOTES

GENERAL
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.

Website: http://eng2.lacity.org/brownbook/frame.cfm

Where conflicts occur between these Landscape Construction Notes and the SSPWC, these IRRIGATION CONSTRUCTION NOTES shall take precedence. Subsections included within these IRRIGATION CONSTRUCTION NOTES modify or add to the corresponding subsection (by number) of the SSPWC, latest edition with current yearly supplements; where options for materials and/or methods appear in the SSPWC, the option listed hereon shall be used.

This improvement consists only of work called for on these plans. All irrigation system components and installation shall comply with all applicable code requirements.

PLANS AND SPECIFICATIONS
The General Contractor shall be responsible for issuing a complete set of plans and specifications to all Sub-Contractors.

√ **Indicates approvals or submittals, including items to be turned over at the pre-final. All approvals and submittals shall be transmitted to the Project Manager.**

√√ **Indicates required field inspections with the Project Manager and/or RAP Operations staff. Notify all party's three (3) days prior to the required inspection.**

√ **SCHEDULE OF WORK**
The Contractor shall submit a Schedule of Work for approval to the Project Manager prior to the commencement of work. The Project Manager, 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. The work area shall be as defined on the Title Sheet, or as indicated on the Plans by means of a contract limit line.

√√ **JOB START MEETING**
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: the Project Manager, Landscape Architect, and RAP Region Maintenance personnel, prior to the commencement of meeting to review the content of the plans and discuss the coordination of the project with the Department's operations at the project site. The pre-construction meeting can be held at the same time as the Job Start Meeting at the Contractors discretion.

√√ **INSPECTIONS**
All work and materials are subject to inspection and approval by the Project Manager or his designee. 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 Project Manager three (3) days prior to requested date of inspection of the following for approval:

√√**4. IRRIGATION MAINLINE PRESSURE TEST:** The pressure test shall take place under the direction of the Project Manager or RAP Regional mainenance staff. The Project Manager,and Recreation and Parks Regional maintenance staff shall be notified three (3) days before the scheduled test.

√√**5. IRRIGATION COVERAGE TEST:** After installation of heads and lateral lines etc., entire irrigation system shall be tested for coverage per these Irrigation Construction Notes. The Project Manager,and Recreation and Parks Regional maintenance staff shall be notified three (3) days before the scheduled test.

√ **6. PRE-FINAL INSPECTION**
Approximately two weeks before completion of the Work, the contractor will schedule a Pre-final Inspection to be attended by the Project Manager, Landscape Architect, and RAP Region Maintenance personnel. At this time, a list of items requiring correction or completion before the Final Inspection will be compiled. In addition, at this time the Contractor shall arrange for the delivery of manufacturers data, manuals, and operating instructions and keys to the appropriate Department of Recreation and Parks personnel.

√ **7. CONTRACT FINAL INSPECTION**
Approximately seven (7) days prior to completion of the Work, the Contractor shall first notify the Project Manager that he desires a Final Inspection of the Project. During this inspection, which will be arranged as soon as possible, the the Project Manager, Landscape Architect, and RAP Region Maintenance personnel will compile a Final Inspection Correction List, incorporating all items of work and corrections required to complete the Project. This list must be completed within thirty (30) days of Final Inspection, or a new Final Inspection will be held and a new Final Inspection Correction List compiled.

√ **8. MATERIALS SUBMITTAL:**
A. Furnish a schedule and list of required submittals to the PROJECT MANAGER, including required submittals by Subcontractors.

B. Wherever called for in these specifications or on the plans, or where required by the PROJECT MANAGER, furnish to the PROJECT MANAGER for review 3 copies of each submittal. The term "submittal" as used herein shall be understood to include detail design calculations, design drawings, Shop Drawings, Working Drawings fabrication and installation drawings, catalog sheets, data sheets, samples, and similar items. Unless otherwise required, transmit said submittals to the PROJECT MANAGER at a time sufficiently early to allow review of same by the PROJECT MANAGER and to accommodate the rate of construction progress required under the Contract without delaying the Contract Work and with due regard for the possibility of resubmittals. Submittals shall be in English.

C. Design or Shop Drawings or other submittals shall be accompanied by the standard "CONTRACTOR'S SUBMITTAL TRANSMITTAL." form. Normally, a separate transmittal form shall be used for each specific item or class of material or equipment for which a submittal is required. Transmittal of a submittal of various items using a single transmittal form will be permitted only when the items taken together constitute a manufacturer's "package" or are so functionally related that expediency indicates a review of the group or package as a whole. A multiple-page submittal shall be collated into sets, and each set shall be stapled or bound, as appropriate, prior to transmittal to the PROJECT MANAGER.

D. Shop Drawings shall show in detail the size, sections, and dimensions of all the member(s); the arrangement and construction of all connections and joints; all holes, straps, and other fittings required for attaching Work; and other pertinent details. Contractor shall be responsible for delivering reviewed copies of Shop Drawings to all others whose Work is dependent thereon. Contractor shall maintain a complete file of approved Shop Drawings and manufacturers' data for this Project, at the site of the Project at all times.

F. Except as may otherwise be provided herein, the PROJECT MANAGER will make a reasonable attempt to return prints of each submittal to the CONTRACTOR, with its comments noted thereon, within 30 calendar days following their receipt by the PROJECT MANAGER. It is considered reasonable that the CONTRACTOR shall make a complete and acceptable submittal to the PROJECT MANAGER by the second submission of a submittal item. The CITY reserves the right to withhold moneys due the CONTRACTOR to cover additional costs of the PROJECT MANAGER's review beyond the third submittal. Submittal will be returned to the CONTRACTOR with one of three (3) markings:

1. If three (3) copies of a submittal are returned to the CONTRACTOR marked "NO EXCEPTIONS TAKEN/PROCEED," formal revision and resubmission of said submittal will not be required.

2. If three (3) copies of a submittal are returned to the CONTRACTOR marked "MAKE CORRECTIONS NOTED/PROCEED CONDITIONALLY," formal revision and resubmission of said submittal will not be required.

3. If one (1) copy of a submittal is returned to the CONTRACTOR marked "REJECTED-RESUBMIT/DO NOT PROCEED," revise said submittal and resubmit 3 copies of said revised submittal to the PROJECT MANAGER.

G. Work for which Shop Drawings are required shall be performed in accordance with the reviewed and approved copies. Fabrication of an item shall not commence before the PROJECT MANAGER has reviewed the pertinent submittal and returned the copies to the CONTRACTOR marked either "NO EXCEPTIONS TAKEN/PROCEED," or "MAKE CORRECTIONS NOTED/PROCEED CONDITIONALLY." Revisions indicated on submittals shall be considered as changes necessary to meet the requirements of the Contract Documents and shall not be taken as the basis for claims for extra Work.

K. CONTRACTOR submittals shall be carefully reviewed by an authorized representative of the CONTRACTOR prior to submission to the PROJECT MANAGER. Each submittal shall be dated, signed, and certified by the CONTRACTOR as being correct and in strict conformance with the Contract Documents. No consideration for review by the PROJECT MANAGER of any CONTRACTOR submittal will be made for any items that have not been so certified by the CONTRACTOR. Non-certified submittals will be returned to the CONTRACTOR without action taken by the PROJECT MANAGER, and any delays caused thereby shall be the total responsibility of the CONTRACTOR.

L. The PROJECT MANAGER's review of CONTRACTOR submittal shall not relieve the CONTRACTOR of the entire responsibility for the correctness of details and dimensions and conformance to the specifications. Assume all responsibility and risk for any misfits due to any errors in the submittal. Any fabrication or other Work performed in advance of the receipt of accepted submittals shall be entirely at the CONTRACTOR's risk and expense. Be responsible for the dimensions and the design of adequate connections and details.

√ **10. SUBSTITUTIONS AND "OR EQUAL" SUBMITTAL:**
A. Make "Or Equal" submittals within thirty (30) calendar days after issuance of Notice-to-Proceed. A request or submittal received after the specified period will be considered as NOT EQUAL to that so specified and will be processed as a substitution described hereinafter.

B. Clearly identify manufacturers' data submitted to the PROJECT MANAGER for review and acceptance each proposed substitute with the corresponding Contract Drawing detail and Specification section. If the PROJECT MANAGER decides to accept for use in the Project a material, process or article which is not the equal of that specified, make substitution in the manner described in CHANGES AND EXTRA WORK of the General Conditions, with a credit to the CITY for the difference in value.

C. The PROJECT MANAGER will determine whether the material offered is equivalent to that specified. Any revision to structures, piping, mechanical, electrical, instrumentation, or any other Work made necessary by such substitution must be approved by the PROJECT MANAGER, and the entire cost both direct and indirect of these revisions shall be borne by the CONTRACTOR.

D. Materials, processes, or articles may be requested as a substitution by the CONTRACTOR, in lieu of that specified, under the following conditions:

1.Submit in writing and in the manner described in SUBMITTAL of these General Requirements.

2. Submit thirty (30) calendar days before starting the Work, as established by the PROJECT MANAGER, so as not to cause any delay in completion of the Project. No other request will be considered after expiration of the period specified, except that in exceptional cases where it is determined to be in the best interest of the CITY, as approved by the PROJECT MANAGER.

3. Agree to pay for all PROJECT ENGINEERING and design services, if required, to make changes and adjustments in material and Work of trades directly or indirectly affected by the substitute, to the satisfaction of the PROJECT MANAGER, at no cost to the CITY.

4. All requests for substitution shall be made through the CONTRACTOR. Submissions by the CONTRACTOR shall imply the CONTRACTOR's approval of such substitution.

5. No requests for substitutions will be considered during the bidding period.

6. Furnish adequate data with each request for approval of a substitute to enable the PROJECT MANAGER to evaluate the proposed substitution.

MATERIALS

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

RESTRAINED PLASTIC PIPE
For Irrigation main lines, Class 200 PVC gasketed pipe shall be used for pipe sizes of 3" up to and including 6" diameter.

DUCTLE IRON FITTINGS FOR RESTRAINED PLASTIC PIPE
Fittings shall be manufactured of ductile iron, Grade 65-45-12 in accordance with ASTM A536. Fittings shall have deep bell push-on joints with gaskets meeting ASTM F477.

GASKET LUBRICANT
Push on fitting joint lubricant shall be non-toxic, odorless, tasteless and shall not support bacteria. Use "Seal Lube", SK#87710 by IPS Weldon Corporation or equal.

VALVE TO PIPE RESTRAINTS
Valve to pipe restraint shall consist of ductile iron (ASTM A536) grip rings with machined serrations and ductile iron restraint rods. The ring that grips the pipe shall meet the requirements of UNI-B-13-94. The restraint rod nuts shall be made from low alloy steel to AWWA/ANSI C111/A21.11 or ductile iron to ASTM A536.

FITTING TO PIPE RESTRAINTS
Fitting to pipe restraint shall allow the full rating of the pipe on which it is use. Grip rings and restraint structures shall be made of ductile iron to ASTM A536. Grip ring serrations (gripping features) shall be fully machined or cast. Clamp bolts and nuts shall meet or exceed ASTM A307.

PIPE TO PIPE RESTRAINTS
Pipe to pipe restraints shall allow the full rating of the pipe on which it is used. Grip rings and bell rings shall be made of ductile iron to ASTM A536. Grip ring serrations (gripping features) shall be fully machined or cast. Restraint rod nuts shall be of low alloy steel to AWWA/ANSI C111/A21.11. Clamp bolts and nuts shall meet or exceed ASTM A307.

√ **REMOTE CONTROL VALVES**
The electric remote control valve shall be a normally closed 24 VAC 50/60 Hz (cycles/sec) solenoid actuated globe pattern design. The valve body shall be constructed of heavy-duty glass-filled UV-resistant nylon and have stainless steel studs and flange nuts; diaphragm shall be of nylon reinforced nitrile rubber. The valve shall have both internal and external manual open/close control (internal and external bleed) to manually open and close the valve without electrically energizing the solenoid. The valve shall house a fully-encapsulated, one-piece solenoid. The 24 VAC 50/60 Hz solenoid shall open with 19.6 VAC minimum at 200 psi. The valve shall have a brass flow control stem for accurate manual regulation and/or shut-off of outlet flow. The valve must open or close in less than 1 minute at 200 psi, and less than 30 seconds at 20 psi.

2-WIRE CONTROL WIRE
Connection between the controller(s) and the remote control valves shall be made with polyethylene double-jacketed or UF-B UL PVC double-jacketed two-conductor solid core designed for direct burial with insulation 3/16 inch(.060") thick, high density, sunlight resistant incased in an outer jacket of Polyethylene or PVC conforming to ICEA S-GL-402 or NEMA WC5, having a minimum wall thickness of .045 inches. ***Two-wire Polyethylene "twisted" cable and single strand 14 gauge PVC irrigation wire are not acceptable.***

2-WIRE CONTROL WIRE SIZING
Standard wire lengths for straight line installation i.e. wire distance to the furthest device without any loop:

Wire Size(gauge)	#14	#12
Total loop Wire Length	10,000'	14,800'
Distance to furthest valve	5,000'	7,400'

CONTROL WIRE
Connection between the 2-wire decoders and the remote control valves shall be made with direct burial 14 gauge, AWG-UF, 600 volt, copper wire. Wires shall be different colors for each valve in the same manifold grouping.

CONTROL WIRE CONNECTIONS
Control wire connections shall be made with 3-M brand of DBY or DBR Direct Burial Splice kits, or approved equal. The splice kit shall consist of a one-piece malleable plastic bulb body with internal locking fingers, filled with re-enterable gel sealant and a Scotchlok Electrical Spring Connector. Materials shall be as follows:

• Connector shall be a flame retardant PVC insulator with a steel spring and shell within. • Connector shall be a non-crimping system
• Tube material shall be clear see-through polypropylene.
• Gel material shall be hixotropic calcium organic complex.

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

CONNECTOR	COLORNO. AND SIZE OF WIRE
3M Model DBY	Yellow Max. 4-12 gauge UF wires
3M Model DBR	Red Max. 3-14 gauge UF wires

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

√ **POP-UP TURF ROTORS**
The body of the rotor head shall be constructed of corrosion and UV-resistant, heavy-duty A.B.S. The rotor head body shall have a factory-installed drain check valve capable of checking up to 10 feet in elevation change. The full or part-circle rotor head shall be a single stream, water lubricated, gear drive type capable of both full circle and part circle operation in the same unit. The part-circle mode shall have adjustable arc coverage of 50 to 330 degrees. The rotor head shall have a screen attached to the drive housing to filter inlet water, protect the drive from clogging and simplify its removal for cleaning and flushing of the system. The rotor head body shall have a 1" (26/34) female (NPT or BSP) bottom inlet. The rotor head shall have a standard rubber cover which designates each adjustment opening from the top. Pop-up height as measured from the top of the cover to the centerline of the nozzle orifice shall be at least 5 inches. The rotor shall have a stainless steel covered nozzle turret and riser stem. The riser stem shall be tapered and conform to the standard plastic riser in all other ways.

√ **POP-UP SRAY HEADS**
The pop-up spray head body shall have a 12-inch pop-up stroke. The body of the spray head shall be constructed of corrosion and UV-resistant, heavy-duty A.B.S. The spray head body shall have a factory-installed drain check valve capable of checking up to 10 feet in elevation change. The spray head body shall have a standard pressure-regulating device as an integral part of the pop-up riser maintaining a constant nozzle outlet pressure of 40 PSI with inlet pressures of up to 100 PSI. Nozzles shall be matched precipitation rate, multiple stream, rotating type series with adjustable radius from 10' to 30', and arcs adjustable from 45 to 360 degrees.

√ **VALVE BOXES**
The valve box shall be made of structural foam HDPE resin that is resistant to UV light, weather, moisture, and chemical action of soils. The standard rectangular body shall have knock-outs molded into the sides that can be readily removed. The knock-outs shall remain an integral part of the body unless removed to run pipes or wires through the valve box. The valve box shall have corrugated sides. Extension models shall have vertical ribs inside that make them capable of being mounted directly over the top of another box. Lids shall be clearly marked with the words "Irrigation Control Valve" molded onto the top. Lids shall have a marking area measuring at least 6" by 2" that is suitable for branding or other means of identification. Lids shall be permanently branded, "GV" for gate valve, "RCV" for remote control valves, "QC" for quick coupling valves, MV for Master Valve. All boxes shall have a locking bolt, washer, and clip made of stainless steel.

√ **DOMESTIC WATER LINES FOR DRINKING FOUNTAINS**
Install water piping in accordance with the latest edition of the Uniform Building Code and all local ordinances. **Prior to allowing human consumption of water from newly installed drinking fountains the contractor shall perform domestic sterilization procedures as indicated in applicable details and meet standards indicated. New drinking fountains shall be turned off or otherwise made inoperable until this testing is successfully accomplished.**

Domestic Cold Water Piping **ABOVE GRADE**: Piping shall be ASTM B88 Type "L" seamless hard drawn copper tubing with ANSI B 16.22 wrought copper fittings. Joints shall be made up with lead-free, nickel bearing alloy solder such as Harris Bridget.

Domestic Cold Water Piping **BELOW GRADE**: Piping shall be ASTM B88 Type "K" seamless hard drawn copper tubing with ANSI B 16.22 wrought copper fittings. Joints shall be made up with lead-free, nickel bearing alloy solder such as Harris Bridget.

METHODS

EXISTING IRRIGATION SYSTEM REPAIR - GENERAL
The Contractor shall reconstruct any existing irrigation lines that are to remain in service, when they interfere or are damaged by construction. Reconstruction of the irrigation lines shall conform to the applicable sections of the Landscape Construction Notes using all new materials except existing irrigation heads, which may be reinstalled. When modifications to an existing irrigation system are part of the project, the Contractor shall verify the operation of all existing irrigation controllers, remote control valves, quick coupling valves, and irrigation heads prior to the commencement of work. The Project Manager shall be notified, in writing, of any inoperable equipment encountered.

√√ Maintain 12 inches of cover over all lateral lines and 24 inches of cover over mainlines 3" and smaller in diameter. Mainlines 4" and larger in diameter shall have 30" of cover over the top of the pipe. Reconnect existing remote control valves with approved watertight connectors, (308-5).

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

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

COVER OVER MAINLINES:
√√ Maintain 24 inches of cover over mainlines 2" and smaller in diameter. Mainlines 3" and larger in diameter shall have 30" of cover over the top of the pipe, (308-5.2). All trenching shall be per details.

COVER OVER LATERAL LINES:
√√ Maintain 12 inches of cover over all lateral lines.

COVER OVER CONTROL WIRE CONDUIT:
√√ Maintain 18 inches of cover over all control wire conduit.

PIPE BEDDING AND BACKFILL: All trench backfill shall be performed in accordance with approved soils report. Pipe bedding shall be clean site soil, free of all rocks, debris, etc. over 1/2" diameter. Bedding shall surround the pipe to one foot min. above the top of the pipe and shall be placed in 8-inch lifts. Backfill shall be the material placed above the bedding to finish grade. There shall be no rocks over 2" in greatest dimension or organic matter in the backfill. Backfill shall be placed in 8-inch lifts. All bedding and backfill shall be properly moisture conditioned and compacted at each lift. All trenches shall have a minimum relative compaction of 90%. Compaction shall be tested by the City at locations to be determined by the Geotechnical Engineer. Trench backfill which exhibits insufficient compaction shall be subject to excavation and re-compaction until minimum compaction is achieved. Finished trenches shall be flush with adjacent finish grades. The Contractor shall be responsible for maintaining the trenches flush and smooth with adjacent surface grade until final acceptance of the project. After compaction has been approved, trenches in existing turf areas shall be re-planted per "Method A" lawn repair of the Landscape Planting Section of the Landscape Construction Notes, unless otherwise noted.

PIPES AND REMOTE CONTROL WIRING CROSSING UNDER PAVING:
Where irrigation piping crosses a vehicular roadway or other paving having a width of less than 25 feet, a Schedule 40 PVC sleeve which is a minimum of two pipe sizes larger than the piping to pass through it, shall be placed under the paving at a depth of 36 inches minimum. Where remote control wiring crosses under paving having a width of less than 25 feet, a 3 inch Schedule 40 PVC sleeve shall be placed under the paving at a depth of 30 inches minimum. All sleeves shall extend 3 feet minimum beyond the edges of paving.

Where irrigation piping crosses a vehicular roadway or other paving having a width greater than 25 feet, a trench shall be excavated across the roadway or paving to accommodate a Schedule 40 PVC sleeve a minimum of two pipe sizes larger than the piping to pass through it, at a depth of 30 inches below the bottom of the paving, as measured from the top of the sleeve. Where remote control wiring crosses under paving having a width greater than 25 feet, a 3 inch Schedule 40 PVC sleeve shall be installed at a depth of 30 inches below the bottom of the paving, as measured from the top of the sleeve. The backfill of the trench shall be a 2 sack cement slurry. The slurry shall extend from the bottom of the trench to within one inch of the bottom of the existing paving. The trench in the existing paving shall be repaired with a like paving material and join the existing paving both horizontally and vertically.

PLASTIC PIPELINE-SOLVENT WELDED
Prior to the application of the P.V.C. solvent cement, prepare all surfaces to be solvent welded with tetrahydrofuran primer tinted purple.

PLASTIC PIPELINE- THREADED ENDS
Teflon tape shall be used on all plastic male pipe threads, (801-5.3.3).

SPIGOT AND BELL JOINTS FOR 3" AND LARGER PVC MAINLINE
Field cut pipe shall be beveled at approximately 15º and all sharp corners smoothed. Align pipe sections straight. Clean all debris from the bell areas of the fitting and install gasket so that it is completely seated in the groove with no raised areas.

Apply lubricant to the installed gasket and to beveled end of the cut pipe or to the spigot end of the pipe or fitting. Align the pipe with fitting and push together by hand or with pry bars on the end of the fitting or with two pry bars using the lugs on the fitting. Insert until the reference line mark is even with edge of the fitting bell.

FITTINGS ON MAINLINES:
All outlets from a mainline shall be per details in irrigation plans. No exceptions are allowed without prior approval of landscape architect. For mainlines over 3" in diameter, all fittings shall be ductile iron restrained type fittings per plans and details.

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

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

PLACEMENT OF IRRIGATION HEADS
Note: Irrigation plans are designed, as a minimum standard, for head-to-head coverage. Head locations shall be scaled from center of head symbol directly from the irrigation plan. Accuracy of placement shall be within plus or minus two feet for all rotary heads having a throw of 35 feet or greater; within plus or minus 12 inches for all head types with a throw of under 35 feet. Where heads are located adjacent to paving, the heads shall be placed within three inches of such paving.
No exceptions allowed.

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

SPRINKLER HEAD RISER
All plastic sprinkler heads shall be installed on swing joint assemblies as shown on details.

AUTOMATIC CONTROL SYSTEM INSTALLATION
The automatic controller shall be per details. Each remote control valve shall have a separate 24 volt control wire from the automatic irrigation controller

CONTROL WIRE
Connection between the automatic controller(s) and the decoders shall be be rainmaster #tw-cab-14 or approved equal: polyethylene double-jacketed or UF-B UL PVC double- jacketed two-conductor solid core designed for direct burial with insulation 3/16 inch (.060") thick, high density, sunlight resistant incased in an outer jacket of polyethlene or pvc conforming to ICEA S-GL-402 or NEMA WC5, having a minimum wall thickness of .045 inches. ***Two-wire polyethlene "twisted" cable or single strand 14-gauge PVC irrigation wire does not conform to these specifications and will not be accepted.***

INSTALLATION OF IRRIGATION CONTROL WIRING
2-wire conductor shall be installed in 1.5" SCH. 80 PVC conduit per details. Conduit shall follow the routing of mainline wherever possible. Contractor shall install 2-wire system grounding as indicated on the plans and details, and in a manner consistent with the manufacturer of the 2-wire controller system's instructions.

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

√√ The irrigation system mainlines shall be pressure tested following the flushing of the completed mainline system. The mainlines shall be tested for 24 hours at 125 p.s.i. with all control valves in place and closed. During the test, the Contractor shall provide pressure gauges downstream from the backflow device and upstream from the farthest remote control valve in the system. Air pressure testing of the irrigation system is acceptable if approved by the Project Manager. Inspection and approval of control wire conduit shall be verified before mainline trenches are backfilled.

√√ **4. IRRIGATION COVERAGE TEST:** Following the installation of all valves, lateral lines, and heads, the entire irrigation system shall be tested for coverage under the direction of the Project Manager. The coverage test shall cycle through each station of the irrigation system from the automatic controller. The Project Manager, Landscape Architect and Recreation and Parks Regional maintenance staff shall be notified three (3) days before the scheduled test.

√ **RECORD DRAWINGS (AS-BUILTS) AND CONTROLLER CHARTS**
As built plans shall be maintained throughout the construction period and turned over to the Project Manager at the Operational Final Inspection, in accordance with Article 8 of the General Requirements.

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

The Contractor shall provide two copies of a controller chart showing the irrigation system as installed. The chart shall be done on a half size photographic reproduction of the irrigation plan and shall reflect the as-built data. Each station shall be shown in a different color and control wire locations shall be indicated. A separate chart listing each station number, planting type, head type, running time shall be affixed to inside door of enclosure. Both be laminated on each side with a 20 mil acrylic plastic sheet. A 3/4" brass grommet shall be placed in each top corner. The Contractor shall obtain approval of the controller chart from the Project Manager, before proceeding with the plastic lamination.

WARRANTY FOR IRRIGATION SYSTEM WORK
The entire sprinkler irrigation system shall be warranted to be free from defects in materials and workmanship, and installed in accordance with these Landscape Construction Notes and the SSPWC. The Contractor shall be required to repair or replace any defects in material or workmanship which may develop within one (1) calendar year from the date of acceptance, ordinary wear and tear and unusual abuse or neglect excepted. Further, the Contractor shall be required to make any necessary repairs within 48 hours of notification at no cost to the city. If the Contractor or his agent fail to make such repairs within the stipulated time, the city shall make such repairs or have repairs made by a third party and bill the Contractor for all expenses that accrue from making such repairs.

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

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.

REVISION DATES (DESIGN STAGE ONLY)

Sheet Version 2.2

BUREAU OF ENGINEERING
CITY OF LOS ANGELES

INDEX NO. RP-300115
BUILDING NO.

NO.	REVISIONS	DATE	BY

LICENSED LANDSCAPE ARCHITECT ★ CHERYL M. FISHER ★ 3660 ★ REGISTERED ★ Exp. 9-30-21 ★ STATE OF CALIFORNIA

BUREAU OF PUBLIC WORKS
DEPARTMENT OF ENGINEERING

GARY LEE MOORE, P.E., ENV SP	CITY ENGINEER	DATE 11/07/19
LANDS. ARCHITECT: RICHARD W. FISHER ASLA CA LIC. #3660	ARCHITECTURAL DIVISION	DATE 11/07/19
DESIGNED BY: RICHARD W. FISHER ASLA		DATE 11/07/19
DRAWN BY: RICHARD W. FISHER ASLA		DATE 11/07/19
CHECKED BY: JANE ADRIAN		DATE 11/07/19
APPROVED BY: MAHMOOD KARIMZADEH AIA, PRINCIPAL ARCHITECT		

CITY OF LOS ANGELES
CLIENT: DEPARTMENT OF RECREATION & PARKS
GENERAL MANAGER: MICHAEL A. SHULL

SHEET TITLE: IRRIGATION CONSTRUCTION NOTES

PROJECT: CHATSWORTH PARK NORTH - OUTDOOR FIELD IMPROVEMENTS

ADDRESS: 22300 W. CHATSWORTH STREET, LOS ANGELES CA 91311

WORK ORDER NO. E170488
FILE NO. 185
DRAWING NO. L604
SHEET 10 OF 10 SHEETS

PLOTTED: 12/10/20, 7:50 AM