



## PARKS & RECREATION COMMISSION MEETING

Antioch City Hall  
200 H Street  
Antioch, CA 94509

Thursday  
July 21, 2022  
7:00 p.m.

### AGENDA

*Parks and Recreation Commission Meetings are live-streamed at  
<https://antiochca.gov/parksandrecreationmeeting>*

#### **Notice of Opportunity to Address the Parks and Recreation Commission**

There are two ways to submit public comments to the Commission:  
Prior to 5:00pm the day of the meeting written comments may be submitted electronically to the Director of Parks and Recreation at the following email address:  
[bhelfenberger@antiochca.gov](mailto:bhelfenberger@antiochca.gov). Include your comments in the email communication.

All comments received before 5:00 pm the day of the meeting will be provided to the Parks and Recreation Commissioners at the meeting. **Please indicate the agenda item and title in your email subject line.**

After 7:00 the day of the meeting and during the meeting all comments may be submitted verbally by dialing (925) 776-3057. Call-in comments will be heard by Commissioners during the meeting. Members of the public attending the meeting in person may speak during "public comments" or during an agenda item. Please note that there is a delay of approximately 60 seconds between the live meeting and the broadcast.

*Individuals may view the agenda and related writings on the City of Antioch website: [www.antiochca.gov](http://www.antiochca.gov). In accordance with the Americans with Disabilities Act and California law, it is the policy of the City of Antioch to offer its public programs, services and meetings in a manner that is readily accessible to everyone, including individuals with disabilities. If you are a person with a disability and require information or materials in an appropriate alternative format; or if you require any other accommodation, please contact the ADA Coordinator at the number or address below at least 72 hours prior to the meeting or when you desire to receive services. Advance notification within this guideline will enable the City to make reasonable arrangements to ensure accessibility. The City's ADA Coordinator can be reached @ Phone: (925) 779-6950, and e-mail: [publicworks@ci.antioch.ca.us](mailto:publicworks@ci.antioch.ca.us).*



## **PARKS & RECREATION COMMISSION MEETING**

**July 21, 2022**

### **AGENDA**

**I. CALL TO ORDER**

**II. ROLL CALL**

**III. PLEDGE OF ALLEGIANCE**

**IV. PUBLIC COMMENTS**

Residents are given the opportunity to address the Commission on Park and Recreation issues not on the regular agenda.

**V. APPROVAL OF MINUTES**

Recommended Action:

1. Motion to approve annotated agenda minutes of the Parks and Recreation Commission meeting of March 17, 2022.
2. Motion to approve annotated agenda minutes of the Parks and Recreation Commission meeting of May 19, 2022. *(note, this meeting was cancelled due to lack of quorum. The minutes are a record of the cancellation).*
3. Motion to approve annotated agenda minutes of the Parks and Recreation Commission Special Meeting of June 7, 2022.

**VI. BUSINESS**

1. Recommendation to Approve the Contra Loma Estates Park Renovation (P.W. 298-P3)

**VII. COMMUNICATIONS (Announcements and Correspondence)**

1. Staff Communication
2. Commission Communication

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## VIII. ADJOURNMENT

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## PARKS & RECREATION COMMISSION MEETING

Thursday  
March 17, 2022  
7:00 p.m.

### ANNOTTATED AGENDA

#### I. CALL TO ORDER

*Call to Order by Chair Arce at 7:00 pm*

#### II. PLEDGE OF ALLEGIANCE

*Chair Arce led the Pledge of Allegiance*

#### III. ROLL CALL

*Commissioners Present: Arce, Belche, Eubanks, Knight  
Commissioners Absent: Belche, Foster, Peckenharn  
Staff Present: Brad Helfenberger, Parks and Recreation Director  
John Samuelson, Public Works Director  
Rosanna Bayon-Moore, Assistant City Manager  
Montserrat Cabral, Recreation Supervisor  
Julie Haas-Wajdowicz, Environmental Resource Coordinator*

#### IV. PUBLIC COMMENTS

Residents are given the opportunity to address the Commission on Park and Recreation issues not on the regular agenda.

*There were no public comments.*

#### V. APPROVAL OF MINUTES

Recommended Action:

1. Motion to approve annotated agenda minutes of the Parks and Recreation Commission meeting of February 17, 2022.

*Motion to Approve Minutes for Meeting of February 17, 2022*

*Motion: Knight, Second: Eubanks      4 Yes / 0 No  
3 Absent*

#### VI. BUSINESS

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1. Senior Center and Nick Rodriguez Community Center Programs Updates  
from Recreation Supervisor Monserrat Cabral

*Supervisor Cabral gave background information on programs and activities at the Nick Rodriguez Community Center and Senior Center.*

*No action was taken on this item.*

2. Discussion on Waste Receptacles in Parks: Design, Distribution, and Future Implementation of 3-Way Waste Receptacles

*Environmental Programs Coordinator Haas-Wajdowicz gave a presentation on the City's current and future efforts to implement the 3-way waste receptacle program in City Parks. Members of the Commission noted that the style of receptacles in Walde Plaza are attractive, but expensive. A desire was expressed to pursue grants and look into alternate styles of receptacles for future use.*

*Motion to recommend that staff look into competitive grant opportunities and alternate styles for 3-way waste receptacles in City Parks.*

*Motion: Arce, Second: Belche*

*4 Yes/0 No*

*3 Absent*

## **VII. COMMUNICATIONS (Announcements and Correspondence)**

1. Staff Communication

*Director Helfenberger informed the Commission of upcoming Sesquicentennial Events including the Sesquicentennial Kickoff Barbecue on April 2 and Keep Antioch Beautiful on April 23. He also gave an update that the Bicycle Garden would be going to City Council on April 12 (note, the Bicycle Garden was later presented to City Council on April 26). Finally, he reminded Commissioners whose terms are expiring that they will need to reapply to continue to serve.*

2. Commission Communication

*None*

## **VIII. ADJOURNMENT**

*Motion: Arce, Second: Knight*

*4 Yes /0 No*

*3 Absent*

*Meeting Adjourned at 7:50 pm*

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## **PARKS & RECREATION COMMISSION MEETING**

**Thursday  
May 19, 2022  
7:00 p.m.**

### **ANNOTTATED AGENDA**

*This meeting was cancelled due to a lack of quorum.*

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## PARKS & RECREATION COMMISSION SPECIAL MEETING

**Tuesday  
June 7, 2022  
7:00 p.m.**

### **ANNOTTATED AGENDA**

#### **I. CALL TO ORDER**

*Call to Order by Chair Arce at 6:59 pm*

#### **II. PLEDGE OF ALLEGIANCE**

*Chair Arce led the Pledge of Allegiance*

#### **III. ROLL CALL**

*Commissioners Present: Arce, Belche, Eubanks, King  
Commissioners Absent: Foster, Knight, Peckenham  
Staff Present: Brad Helfenberger, Parks and Recreation Director  
John Samuelson, Public Works Director  
Carlos Zepeda, Public Works Deputy Director  
Carton Thompson, Assistant City Engineer  
Scott Buenting, Project Manager*

#### **IV. PUBLIC COMMENTS**

Residents are given the opportunity to address the Commission on Park and Recreation issues not on the regular agenda.

*There were no public comments.*

#### **VI. BUSINESS**

##### **1. Draft 2022-2027 Five Year Capital Improvement Program, P.W. 150-22**

*Assistant Engineer Thompson introduced the item and gave an overview of the various projects. Deputy Director Zepeda went into greater detail regarding the Jacobson and Marchetti Park Projects. The Commission provided feedback on the color scheme on Jacobson Park and expressed an interest in a more muted shade of yellow for the playground.*

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*Motion to Recommend approval of the Draft 2022-2027 CIP with a lighter shade of yellow at Jacobson Park.*

*Motion: King  
Second: Arce  
4 Yes/0 No  
3 Absent*

**VII. COMMUNICATIONS (Announcements and Correspondence)**

**1. Staff Communication**

*Director Helfenberger informed the Commission of upcoming Sesquicentennial Events including the Movie Night Series, 5k run, and Bicycle Ride. He also gave a preview of the upcoming Juneteenth Event and July 4<sup>th</sup> weekend events.*

**2. Commission Communication**

*The Commission decided by consensus to cancel the regular meeting scheduled for June 16.*

**VIII. ADJOURNMENT**

*Motion: Arce, Second: Eubanks  
4 Yes /0 No  
3 Absent  
Meeting Adjourned at 7:43 pm*


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## STAFF REPORT TO THE PARKS AND RECREATION COMMISSION

**DATE:** Regular Meeting of July 21, 2022

**TO:** Parks and Recreation Commission

**SUBMITTED BY:** Scott Buenting, Project Manager 

**REVIEWED BY:** Carlton Thompson, Assistance City Engineer

**APPROVED BY:** John Samuelson, Public Works Director/City Engineer

**SUBJECT:** Recommendation to Approve the Contra Loma Estates Park Renovation (P.W. 298-P3)

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### **RECOMMENDED ACTION**

It is recommended that the Parks and Recreation Commission recommend approval of the Contra Loma Estates Park Renovation (Project).

### **FISCAL IMPACT**

The fiscal year 2022/2023 Capital Improvements Budget includes adequate funding through the Proposition 68, 2018 Parks Bond Act, Statewide Park Development and Community Revitalization Program Fund for work related to the design and construction of the Project.

### **DISCUSSION**

The City of Antioch has been awarded grant funding through the Proposition 68, 2018 Parks Bond Act, Statewide Park Development and Community Revitalization Program in the amount of \$2.9 Million to be used for the renovation of the Contra Loma Estates Park. A Conceptual Level Site Plan has been developed for the project through an extensive community engagement process. The proposed park amenities were prioritized by neighborhood residents and community organizations active within the community, including elementary aged children that participated in summer camp, and Antioch Police Department volunteers. The proposed plan includes a walking path, outdoor exercise equipment, shaded picnic and barbecue area, dog park, climbing feature for older youth, a public restroom, lighting for the existing basketball court, landscape and security lighting throughout the park. The project will also require collaborative efforts with the local high school for the development and implementation of public art and the California Conservation Corps for tree planting and park landscaping work.

On March 9, 2021, the Council approved the consulting service agreement (Agreement) with RRM to provide the services required for this Project for a total amount of \$201,785.

**ATTACHMENTS**

- A. 90% Drawings of Contra Loma Estate Park
- B. PowerPoint Presentation



CITY OF ANTIOCH

CONTRA LOMA ESTATES PARK RENOVATION

MAHOGANY WAY, ANTIOCH, CA 94509

90% CONSTRUCTION DOCUMENTS SUBMITTAL

PROJECT DIRECTORY

OWNER  
City of Antioch Public Works Department  
200 H Street  
Antioch, CA 94509  
Contact: Scott Buenting, sbuenting@antiochca.gov  
Phone: (925) 779-6129  
Fax: (925) 779-7062

LANDSCAPE ARCHITECT / CIVIL ENGINEER / STRUCTURAL ENGINEER  
RRM Design Group  
325 Davis Street  
San Leandro, CA 94577  
Contact: Gina Chavez  
Phone: (805) 751-4910  
Fax: (805) 543-4609

ELECTRICAL CONSULTANT  
Otto Electrical  
793 E. Foothill Boulevard, Suite A-23  
San Luis Obispo, CA 93405  
Contact: Garrett Otto  
Phone: (805) 459-4329  
Fax: N/A

GEOTECHNICAL ENGINEER  
BSK Associates  
399 Lindbergh Ave  
Livermore, CA 94551  
Christiano Melo  
Phone: (925) 315-3151  
Fax: N/A

SURVEY  
Guida Surveying Inc.  
9241 Irvine Blvd, Ste 100  
Irvine, CA 92618  
Adrian Trespando  
Phone: (925) 400-9994  
Fax: N/A

PROJECT DESCRIPTION

- THE PROJECT GENERALLY INCLUDES BUT IS NOT LIMITED TO: DEMOLITION OF EXISTING PAVING, PROTECTION OF TREES, REGRADING OF SITE, AND CONSTRUCTION OF PUBLIC RESTROOM, CIRCULATION PATHS, SHADE STRUCTURES, DOG PARK, PLAYGROUND ITEMS, FITNESS EQUIPMENT, SITE FURNISHINGS, PLANTING, AND IRRIGATION.
- ALL IMPROVEMENTS SHALL MEET THE 2019 CALIFORNIA BUILDING CODE & 2010 ADA ACCESSIBILITY REQUIREMENTS FOR THE PURPOSE OF PROVIDING BARRIER FREE ACCESSIBLE ROUTES WITHIN THE VILLAGE.

DEFERRED SUBMITTALS

- SHADE STRUCTURES - STRUCTURAL ENGINEERING, CALCULATIONS, FOOTINGS BY SUPPLIER / MANUFACTURER (LC101/L402)
- ENTRY SIGNAGE - FOOTING AND STRUCTURAL DESIGN AND CALCULATIONS BY CONTRACTOR / SIGN FABRICATOR.
- BASKETBALL COURT SPORTS LIGHTING - FOOTING DESIGN BY MANUFACTURER

NOTE: ALL DEFERRED SUBMITTALS SHALL NOT BE INSTALLED UNTIL APPROVED BY THE BUILDING OFFICIAL, AND THAT DEFERRED SUBMITTAL DOCUMANTS HAVE A NOTATION BY THE REGISTERED DESIGN PROFESSIONAL INDICATING THEY HAVE BEEN REVIEWED AND FOUND TO BE IN CONFORMANCE TO THE BUILDING OR STRUCTURE.



LOCATION MAP

NOT TO SCALE

BID ALTERNATE SUMMARY

NO.	DESCRIPTION	REFERENCE
1	BASE BID: SEEDED LAWN AREAS. (ADD) REMOVE SEEDED GRASS FROM SCOPE AND REPLACE WITH SOD LAWN INSTALLATION TO ALL GRASS AREAS.	LC101
2	BASE BID: NEW WOOD FENCE ALONG MAHOGANY WAY. (DEDUCT) LEAVE EXISTING CHAIN LINK FENCE IN PLACE. REMOVE EXISTING CHAIN LINK FENCE AND POSTS AT PARK ENTRANCES.	CD101 / LC101
3	BASE BID: PROTECTIVE RUBBER SURFACING AT FITNESS AREAS. (DEDUCT REMOVE PROTECTIVE RUBBER SURFACING AT FITNESS AREAS & REPLACE WITH ENGINEERED WOOD FIBER (EWF) MULCH.	LC101
4	BASE BID: NEW SHADE SHELTER #2. (DEDUCT) REMOVE SHADE SHELTER #2 FROM SCOPE OF WORK.	LC101
5	BASE BID: TEEN AREA (DEDUCT) REMOVE STABILIZED DECOMPOSED GRANITE / GRANITECRETE PAVING AND BASE COURSES, CONCRETE TABLES, AND MOW BAND FROM SCOPE AND REPLACE WITH LAWN AND IRRIGATION.	LC101

SHEET INDEX

G001	TITLE SHEET	E100	SINGLE LINE DIAGRAM AND SCHEDULES
G002	GENERAL NOTES AND ABBREVIATIONS	E200	SITE ELECTRICAL PLAN
G101	ADA ACCESSIBILITY PLAN	E300	LIGHTING DETAILS
V101	SUPPLEMENTAL TOPOGRAPHIC SURVEY	E400	ELECTRICAL DETAILS
		E500	TITLE 24 - OUTDOOR LIGHTING
CD001	DEMOLITION SCHEDULE AND NOTES	S101	STRUCTURAL DETAILS (NOT INCLUDED IN THIS SUBMITTAL)
CD101	DEMOLITION PLAN		
CE001	EROSION CONTROL NOTES		
CE101	EROSION CONTROL PLAN		
CW101	STORMWATER CONTROL PLAN		
CW501	STORMWATER CONTROL DETAILS		
CG001	GRADING AND DRAINAGE NOTES		
CG101	GRADING AND DRAINAGE PLAN		
CU001	UTILITY NOTE SHEET		
CU101	UTILITY PLAN		
CH101	HORIZONTAL CONTROL PLAN		
CH102	HORIZONTAL CONTROL POINT TABLE		
LC001	CONSTRUCTION SCHEDULE AND NOTES		
LC101	CONSTRUCTION PLAN		
LC401	ENLARGEMENT PLAN		
LC501	CONSTRUCTION DETAILS		
LC502	CONSTRUCTION DETAILS		
LC503	CONSTRUCTION DETAILS		
LC504	CONSTRUCTION DETAILS		
LC505	CONSTRUCTION DETAILS		
LC506	CONSTRUCTION DETAILS		
LC507	CONSTRUCTION DETAILS		
LC508	CONSTRUCTION DETAILS		
LC509	CONSTRUCTION DETAILS		
LI001	IRRIGATION SCHEDULE AND NOTES		
LI101	IRRIGATION PLAN		
LI501	IRRIGATION DETAILS		
LI502	IRRIGATION DETAILS		
LP001	PLANTING SCHEDULE AND NOTES		
LP101	PLANTING PLAN		
LP501	PLANTING DETAILS		

APPROVALS

TITLE \_\_\_\_\_ NAME \_\_\_\_\_

TITLE \_\_\_\_\_ NAME \_\_\_\_\_

TITLE \_\_\_\_\_ NAME \_\_\_\_\_

DIG ALERT  
DIAL TOLL FREE



AT LEAST 2 DAYS  
BEFORE YOU DIG



90% CDs

DATE ACCEPTED: \_\_\_\_\_

INSPECTED BY: \_\_\_\_\_

AS BUILT REVISIONS:

DATE: \_\_\_\_\_

BY: \_\_\_\_\_

DATE: MARCH/25/2022	APPROVED BY:
DESIGNED BY: JS	
CHECKED BY: GC	DIRECTOR OF PUBLIC WORKS/
DRAWN BY: YI	CITY ENGINEER
REVISIONS:	DATE: C.E.
	NO. BY DATE

PUBLIC WORKS DEPARTMENT  
CAPITAL IMPROVEMENTS DIVISION

CONTRA LOMA ESTATES PARK  
RENOVATION PROJECT

**TITLE SHEET  
G001**

SCALE:  
PUBLIC WORKS  
PROJECT NO.

SHEET 1

OF 40 SHEETS



KEY TO SHEET NUMBERING

DRAWING SHEET NUMBERING AND ORGANIZATION IS ADAPTED FROM THE UNITED STATES NATIONAL CAD STANDARD.

DISCIPLINE DESIGNATORS - LEVEL 1 (Partial List)

G General  
R Resource (Existing Conditions)  
H Hazardous Materials  
V Survey/Mapping  
B Geotechnical  
C Civil  
L Landscape  
S Structural  
A Architectural  
E Electrical  
Z Contractor/Shop Drawings

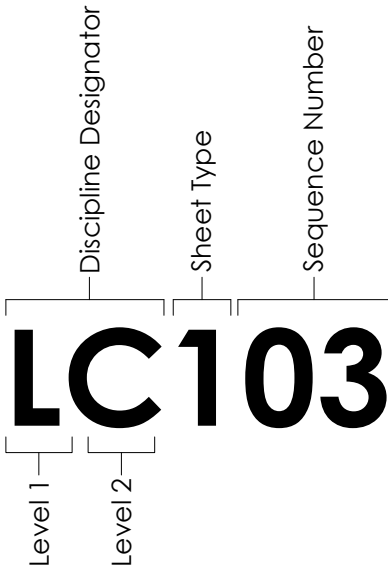
DISCIPLINE DESIGNATORS - LEVEL 2 (Partial List)

D Demolition  
S Site  
G Grading  
E Erosion Control  
U Utilities  
C Construction  
I Irrigation  
P Planting  
L Lighting  
W Stormwater  
H Horizontal Control

SHEET TYPES

0 General: Symbol legend, abbreviations, general notes.  
1 Plans  
2 Elevations  
3 Sections  
4 Large Scale Drawings: plans, elevations, sections (not details)  
5 Details  
6 Schedules and Diagrams  
7 User Defined  
8 User Defined  
9 3D Drawings: isometric, perspective, photos

Dash is substituted when Level 2 is not included.



Example  
Sheet number at left (LC103) is LANDSCAPE CONSTRUCTION PLAN, THIRD SHEET.

ABBREVIATIONS

AB	AGGREGATE BASE OR ANCHOR BOLT	LH	LEFT HAND
ABV	ABOVE	LOC	LOCATION
AC	ASPHALTIC CONCRETE	LP	LOW POINT
ACP	ASPHALTIC CONCRETE PAVING	LS	LAG SCREW
ADJ	ADJACENT	LT	LEFT
AGG	AGGREGATE	MAS	MASONRY
ALT	ALTERNATE	MATL	MATERIAL
AP	ANGLE POINT	MAX	MAXIMUM
APPROX	APPROXIMATE	MED	MEDIUM
ARCH	ARCHITECT (URAL)	MFG	MANUFACTURING
BEL	BELOW	MFR	MANUFACTURE(R)
BLDG	BUILDING	MIN	MINIMUM
BLK	BLOCK	MISC	MISCELLANEOUS
BOT	BOTTOM	ML	MAINLINE
BOW	BACK OF WALK	(N)	NEW
BR	BOTTOM OF RAMP	NIC	NOT IN CONTRACT
BRG	BEARING	NO	NUMBER
CB	CATCH BASIN	NOM	NOMINAL
CF	CUBIC FOOT	NTS	NOT TO SCALE
CI	CAST IRON	OC	ON CENTER
CIP	CAST IN PLACE	OCEW	ON CENTER EACH WAY
C/L	CENTERLINE	OD	OUTSIDE DIAMETER
CL	CENTERLINE	O.F.C.I.	OWNER FURNISHED, CONTRACTOR INSTALLED
CLR	CLEAR	OH	OVERHEAD
CMU	CONCRETE MASONRY UNIT	OPP	OPPOSITE
CO	CLEAN OUT	OPT	OPTIONAL
COL	COLUMN	PA	PLANTER AREA
CONC	CONCRETE	PC	POINT OF CURVE
CONST	CONSTRUCTION	PERF	PERFORATE (D)
CONT	CONTINUOUS, CONTINUE	PERP	PERPENDICULAR
CP	CENTER POINT	PFE	PUBLIC FACILITIES EASEMENT
CR	CURB RETURN	PL	PROPERTY LINE
CTC	CENTER TO CENTER	POB	POINT OF BEGINNING
CTR	CENTER	POC	POINT OF CONNECTION
DAS	DIRECTION AS SHOWN	PRC	POINT OF REVERSE CURVE
DET	DETAIL	PROP	PROPOSED
DF	DRINKING FOUNTAIN	PSI	POUNDS PER SQUARE INCH
DI	DRAIN INLET	PT	POINT, POINT OF TANGENCY
DIA	DIAMETER	PTDF	PRESSURE TREATED DOUGLAS FIR
DIAG	DIAGONAL	PTL	PRESSURE TREATED LUMBER
DIM	DIMENSION	PUE	PUBLIC UTILITIES EASEMENT
DS	DOWN SPOUT	PVC	POLYVINYL CHLORIDE
DWG	DRAWING	R, RAD	RADIUS
EA	EACH	RDWD	REDWOOD
EJ	EXPANSION JOINT	REBAR	REINFORCING BAR
ELECT	ELECTRICAL	REF	REFERENCE
ELEV	ELEVATION	REM	REMOVE
ENCL	ENCLOSURE	REQ'D	REQUIRED
EQ	EQUAL	REV	REVISION(S), REVISED
EQPT	EQUIPMENT	RH	RIGHT HAND
ESMT	EASEMENT	ROW	RIGHT OF WAY
EWf	ENGINEERED WOOD FIBER	RT	RIGHT
EX	EXISTING	S	SLOPE
EXIST	EXISTING	SCH	SCHEDULE
(E)	EXISTING	SD	STORM DRAIN
FAB	FABRICATION	SF	SQUARE FEET
FBO	FURNISHED BY OTHERS	SHT	SHEET
FF	FINISHED FLOOR	SIM	SIMILAR
FFE	FINISHED FLOOR ELEVATION	SL	SLOPE
FG	FINISHED GRADE	SPEC	SPECIFICATION(S)
FIN	FINISH (ED)	SQ	SQUARE
FL	FLOWLINE	SS	SANITARY SEWER
FOC	FACE OF CONCRETE	S/S	STAINLESS STEEL
FOF	FACE OF FINISH	ST	STREET
FOM	FACE OF MASONRY	STA	STATION
FOS	FACE OF STEP	STD	STANDARD
FND	FOUNDATION	STL	STEEL
FS	FINISHED SURFACE	STRUC	STRUCTURE/ STRUCTURAL
FST	FINISHED SURFACE TURF	SURF	SURFACE
FTG	FOOTING	SWCL	SIDEWALK CENTERLINE
FUT	FUTURE	SYS	SYSTEM
GA	GAGE, GAUGE	SYN	SYNTHETIC
GB	GRADE BREAK	TBC	TOP BACK OF CURB
GKT	GASKET	TC	TOP OF CURB
GLV	GALVANIZED	TF	TOP OF FOOTING
GPH	GALLONS PER HOUR	TP	TANGENT POINT
GPM	GALLONS PER MINUTE	TR	TOP OF RAMP
GR	GRATE	TS	TOP OF STEP
HB	HOSE BIB	TW	TOP OF WALL
HC	HANDICAPPED	TYP	TYPICAL
HCAP	HANDICAPPED	UON	UNLESS OTHERWISE NOTED
HDB	HEADBOARD	VAR	VARIES
HEX	HEXAGONAL	V.I.F.	VERIFY IN FIELD
HOR	HORIZONTAL	VERT	VERTICAL
HP	HIGH POINT	W	WATER
HT	HEIGHT	W/	WITH
ID	INSIDE DIAMETER	W/O	WITHOUT
INT	INTERSECTION	@	AT
INV	INVERT	€	CENTERLINE
JT	JOINT	Ø	DIAMETER
L	LENGTH	SF	SQUARE FEET
LB	LAG BOLT		

GENERAL CONSTRUCTION NOTES

1. PRIOR TO BEGINNING CONSTRUCTION, THE CONTRACTOR SHALL VERIFY ALL JOIN CONDITIONS FOR GRADING, DRAINAGE, AND UNDERGROUND FACILITIES, INCLUDING LOCATION AND ELEVATION OF EXISTING FACILITIES AT CROSSINGS WITH PROPOSED UNDERGROUND FACILITIES. IF CONDITIONS DIFFER FROM THOSE SHOWN ON THE PLANS, THE CONTRACTOR SHALL NOTIFY THE DISTRICT AND SHALL NOT BEGIN CONSTRUCTION UNTIL THE CHANGED CONDITIONS HAVE BEEN EVALUATED AND RESOLVED.

RESETTING OF ALL EXISTING MONUMENTS AND OTHER SURVEY MARKERS. ANY SURVEY MONUMENTS DESTROYED BY THE CONTRACTOR SHALL BE REPLACED IN ACCORDANCE WITH THE STATE LAND SURVEYORS ACT AT THE CONTRACTOR'S EXPENSE.
2. THE CONTRACTOR SHALL BECOME FAMILIAR WITH THE PLANS AND SITE CONDITIONS PRIOR TO BEGINNING WORK. SHOULD CONFLICTING INFORMATION BE FOUND ON THE PLANS, THE CONTRACTOR SHALL NOTIFY AND RECEIVE DIRECTION FROM THE DISTRICT BEFORE PROCEEDING WITH THE WORK IN QUESTION.

ALL PROTECTIVE DEVICES TO BE INSTALLED BY THE CONTRACTOR, SHALL BE IN PLACE AT THE END OF EACH WORK DAY. A SAFE PEDESTRIAN PATH OF TRAVEL SHALL BE PROVIDED AT ALL TIMES TO AND FROM BUILDING ENTRANCES TO PARKING FACILITIES. COORDINATE PEDESTRIAN WALK CLOSURES WITH OWNER PRIOR TO CONSTRUCTION.
3. ONLY "APPROVED" STAMPED AND SIGNED DRAWINGS SHALL BE USED FOR THE CONSTRUCTION OF THIS PROJECT.

CONTRACTOR SHALL REFER TO MATERIALS SPECIFICATIONS THROUGHOUT THE APPROVED PLAN SET AND SPECIFICATIONS. ANY SUBSTITUTIONS OF THE MATERIALS SPECIFIED IN THESE DOCUMENTS SHALL REQUIRE WRITTEN APPROVAL FROM THE CITY.
4. NO CHANGES OR MODIFICATIONS TO THE PLANS SHALL BE MADE WITHOUT THE PRIOR WRITTEN APPROVAL OF THE DISTRICT.

DURING THE COURSE OF WORK, THE CONTRACTOR SHALL BE RESPONSIBLE FOR CALLING THE CITY OF ANTIOCH FOR TESTING AND INSPECTION 24 HOURS IN ADVANCE. WORK NOT PROPERLY TESTED AND INSPECTED WILL BE SUBJECT TO REJECTION.
5. CONSULT WITH WITH THE CITY'S ARBORIST PRIOR TO PRUNING OR WORKING WITHIN THE DRIPLINE OF ANY TREE. ALL PRUNING OF TREES SHALL BE KEPT TO A MINIMUM AND MUST FOLLOW CITY OF ANTIOCH STANDARDS.

WORK IN AND ALONG PUBLIC STREETS AND PARKING LOTS, ONCE BEGUN, SHALL PROCEED TO COMPLETION WITHOUT DELAY SO AS TO PROVIDE MINIMUM INCONVENIENCE TO THE PUBLIC.
6. NO TREES, OTHER THAN THOSE INDICATED ON THE DRAWINGS, SHALL BE REMOVED WITHOUT PRIOR APPROVAL OF THE CITY.

CONTRACTOR SHALL BE RESPONSIBLE FOR THE VERIFICATION OF LOCATION OF ALL EXISTING UTILITIES IN THE FIELD PRIOR TO CONSTRUCTION. ALL UTILITIES SHALL BE PROTECTED AND REPAIRED BY THE CONTRACTOR IF DAMAGED.
7. NO MATERIALS OR EQUIPMENT SHALL BE STORED WITHIN THE DRIPLINE OF ANY TREE.

CONTRACTOR SHALL BE RESPONSIBLE FOR NOTIFICATION OF ALL UTILITY COMPANIES 48 HOURS PRIOR TO THE BEGINNING OF WORK. BRING ANY CONFLICTS WITH NEW IMPROVEMENTS IMMEDIATELY TO THE ATTENTION OF THE CITY.
9. DETAILS AND NOTES ON THE DRAWINGS TAKE PRECEDENCE OVER TYPICAL DETAILS AND GENERAL NOTES.

NOTIFY UNDERGROUND SERVICE ALERT (USA) TOLL FREE AT 811 A MINIMUM OF FORTY-EIGHT WORKING HOURS PRIOR TO THE START OF CONSTRUCTION.
10. WRITTEN SPECIFICATIONS TAKE PRECEDENCE OVER DRAWINGS.

CONTRACTOR SHALL ASSUME SOLE AND COMPLETE RESPONSIBILITY FOR LOCATING OR HAVING LOCATED ALL UNDERGROUND UTILITIES AND RELATED FACILITIES AND FOR PROTECTING SAME DURING THE COURSE OF CONSTRUCTION. ALL UTILITIES THAT ARE NOT A MEMBER OF USA MUST ALSO BE NOTIFIED.
12. ALL WORK SHALL CONFORM TO THE RECOMMENDATIONS CONTAINED IN THE PROJECT SOILS ENGINEERING REPORT PROVIDED BY BSK ASSOCIATES DATED JULY 8, 2021 (REPORT NO.:G21-189-111)

ENTRANCE TO THE SITE AND LAY DOWN AREA DURING CONSTRUCTION SHALL BE SPECIFIED BY THE CITY.
13. CONTRACTOR SHALL TAKE ALL CARE TO PREVENT DISRUPTION OF PROJECT SITE IN AREAS OUTSIDE CONSTRUCTION ZONE.

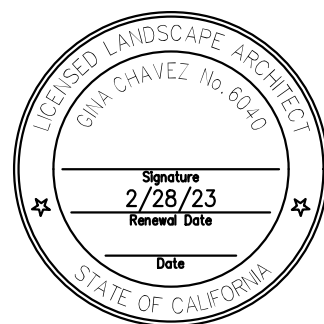
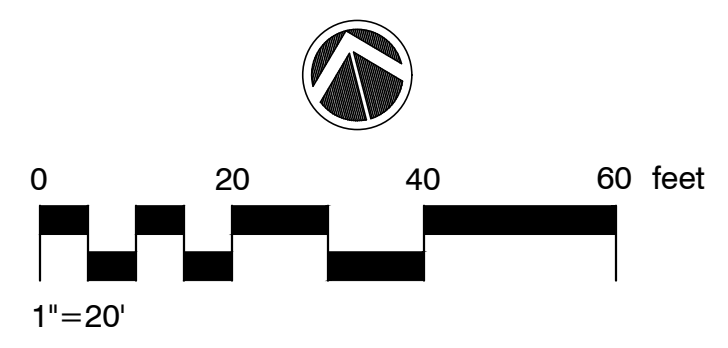
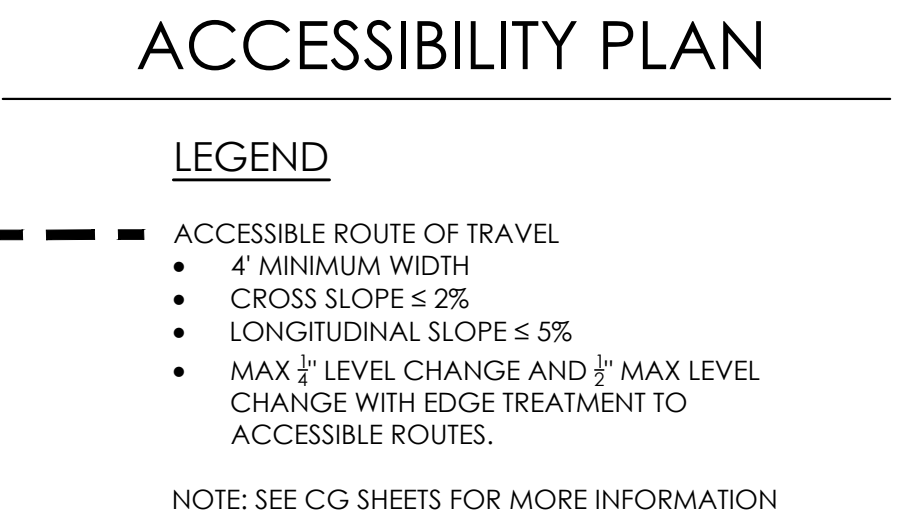
CONTRACTOR SHALL PROVIDE DE-WATERING IF IT IS REQUIRED, COMPLY WITH ALL REQUIREMENTS OF THE REGIONAL WATER QUALITY CONTROL BOARD AND OTHER APPLICABLE AGENCIES.
14. THE CONTRACTOR SHALL NOTIFY THE DISTRICT AT LEAST 48 HOURS BEFORE COMMENCING WORK.

CONTRACTOR SHALL PROVIDE A LEGIBLE AND COMPLETE SET OF PLANS IDENTIFYING ALL MODIFICATIONS MADE DURING CONSTRUCTION TO THE DISTRICT FOR THE PREPARATION OF RECORD DRAWINGS.
15. PROPOSED DEVIATIONS FROM THE PLANS MUST BE SUBMITTED TO THE DISTRICT FOR REVIEW AND APPROVAL, INCLUDING FIELD REVISIONS REQUESTED BY THE DISTRICT INSPECTOR.

ALL CONSTRUCTION SHALL CONFORM TO LATEST EDITION OF CALIFORNIA BUILDING CODE TITLE 24.
16. THE CONTRACTOR SHALL EMPLOY ALL LABOR, EQUIPMENT, AND METHODS REQUIRED TO PREVENT HIS OPERATIONS FROM PRODUCING DUST IN AMOUNTS DAMAGING TO PROPERTY, CULTIVATED OR NATIVE VEGETATION, AND DOMESTIC AND NON-DOMESTIC ANIMALS OR CAUSING A NUISANCE TO PERSONS OCCUPYING BUILDINGS IN THE VICINITY OF THE JOB SITE. THE CONTRACTOR SHALL BE RESPONSIBLE FOR ANY DAMAGE CAUSED BY DUST RESULTING FROM HIS OPERATIONS.

ALL CONSTRUCTION ACTIVITIES SHALL BE LIMITED TO MONDAY THROUGH FRIDAY OF THE CALENDAR WEEK. NO WEEKEND WORK SHALL BE PERMITTED WITHOUT THE PRIOR APPROVAL OF THE OWNER'S AUTHORIZED REPRESENTATIVE.
17. CONSTRUCTION LINE AND GRADE STAKES SHALL BE SET BY A CIVIL ENGINEER OR SURVEYOR LICENSED IN THE STATE OF CALIFORNIA.
18. CONTRACTOR IS RESPONSIBLE FOR THE PROTECTION OR PROPER





90% CDs

DATE ACCEPTED: \_\_\_\_\_

INSPECTED BY: \_\_\_\_\_

AS BUILT REVISIONS:

DATE: \_\_\_\_\_

BY: \_\_\_\_\_

DATE: MARCH/25/2022		APPROVED BY:  DIRECTOR OF PUBLIC WORKS/ CITY ENGINEER	
DESIGNED BY: JS			
CHECKED BY: GC			
DRAWN BY: YI			
DATE:		C.E.	
REVISIONS:	NO.	BY	DATE

PUBLIC WORKS DEPARTMENT  
CAPITAL IMPROVEMENTS DIVISION

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CONTRA LOMA ESTATES PARK  
RENOVATION PROJECT

**ADA ACCESSIBILITY PLAN**  
**G101**

SCALE: 1:20
PUBLIC WORKS PROJECT NO.
SHEET     3     _____
OF   40   SHEETS



TOPOGRAPHIC SURVEY ABBREVIATIONS & SYMBOLS

AC	ASPHALT PAVED SURFACE
AD	AREA DRAIN
BFP	BACKFLOW PREVENTION VALVE
BW	BACK OF WALK
CATV	CABLE TELEVISION
CB	CATCH BASIN
CONC	CONCRETE
EOC	EDGE OF CONCRETE
EPB	ELECTRIC PULL BOX
ICB	IRRIGATION CONTROL BOX
TOP	TOP OF SLOPE
TOE	TOE OF SLOPE
TPB	TELEPHONE PULL BOX
NG	NATURAL GRADE
GB	GRADE BRAKE
GSN	GAS WARNING SIGN PADDLE
EPB	ELECTRIC PULL BOX
HCR	HANDICAP RAMP
RCP	REINFORCED CONCRETE PIPE
SDVLT	STORM DRAIN VAULT
EVLT	ELECTRIC VAULT
HOSE BIB	HOSE BIB
WATER METER	WATER METER
WATER VALVE	WATER VALVE
WATER VAULT	WATER VAULT
FIRE HYDRANT	FIRE HYDRANT
IRRIGATION CONTROL BOX	IRRIGATION CONTROL BOX
TREE (SIZE)	TREE (SIZE)
STUMP (SIZE VARIES)	STUMP (SIZE VARIES)
STORM DRAIN MANHOLE	STORM DRAIN MANHOLE
SANITARY SEWER MANHOLE	SANITARY SEWER MANHOLE
CITY OF ANTIOCH STANDARD MONUMENT IN WELL CASING	CITY OF ANTIOCH STANDARD MONUMENT IN WELL CASING

LINE LEGEND

BOUNDARY PROPERTY LINE
MONUMENT TIE LINE
CONCRETE EDGE
FLOW LINE OF GUTTER
LIP OF GUTTER
TOE OF GRADE
TOP OF GRADE
EASEMENT

BASIS OF BEARINGS

THE BEARING SHOWN HERE ON ARE BASED ON FOUND MONUMENTS ALONG MAHOGANY WAY BEING N76°51.07'W PER SUBDIVISION MAP 5061 BK201 PGS 6-8 FILLED OF SUBDIVISION MAPS, IN THE CITY OF ANTIOCH PER THE COUNTY OF CONTRA COSTA RECORDER OFFICE.

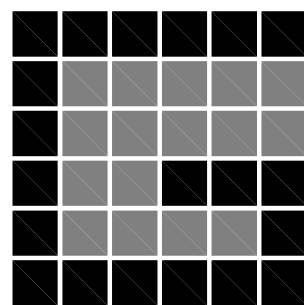
STATION	NORTHING	EASTING
40000	2189959.1655	6180038.2280
40002	2190016.8763	6179790.9093

BENCHMARK

NAVD88 ELEVATIONS DETERMINED USING GEOID MODELING (NGS GEOID18 GEOID MODEL) BASED ON THE NAB3(2011) CRRS EPOCH 2017.50 ELLIPSOID.

NOTE:

THE BOUNDARY SHOWN HEREON IS BASED ON SUBDIVISION MAP 5061, BK. 201, PGS. 6-8 OF SUBDIVISION MAPS, ON FILE IN THE COUNTY OF CONTRA COSTA, RECORDERS OFFICE AND IS FOR INFORMATIONAL PURPOSES ONLY, NO BOUNDARY SURVEY WAS PERFORMED.



GUIDA SURVEYING INC.

4695 CHABOT DRIVE, SUITE 115  
PLEASANTON, CALIFORNIA 94588  
TOLL FREE 1.855.90GUIDA  
WWW.GUIDAINC.COM



SURVEYOR'S STATEMENT:

THE DATA SHOWN HEREON IS A COMBINATION OF DATA FROM AERIAL SURVEY DATED MAY 2021 PROVIDED BY ROBERT J. LUNG & ASSOCIATES AND A SURVEY BY GUIDA SURVEYING, INC. UNDER MY DIRECTION IN CONFORMANCE WITH THE REQUIREMENTS OF THE PROFESSIONAL LAND SURVEYORS' ACT. THE SIGNATURE AND STAMP SHOWN HEREON IS ONLY VALID FOR THE DATA SURVEYED UNDER MY DIRECTION BY GUIDA SURVEYING, INC.

JONATHAN J. CORREA, PLS 8950

DATE: 2/23/2022



325 Davis Street • San Leandro, CA 94587  
P: (510) 751-4910 • F: (510) 560-6386  
WWW.RRMDESIGN.COM  
a California corporation • Lenny Grant, Architect C26973 • Jerry Michael, PE 36895, LS 6276 • Jeff Ferster, LA 2844



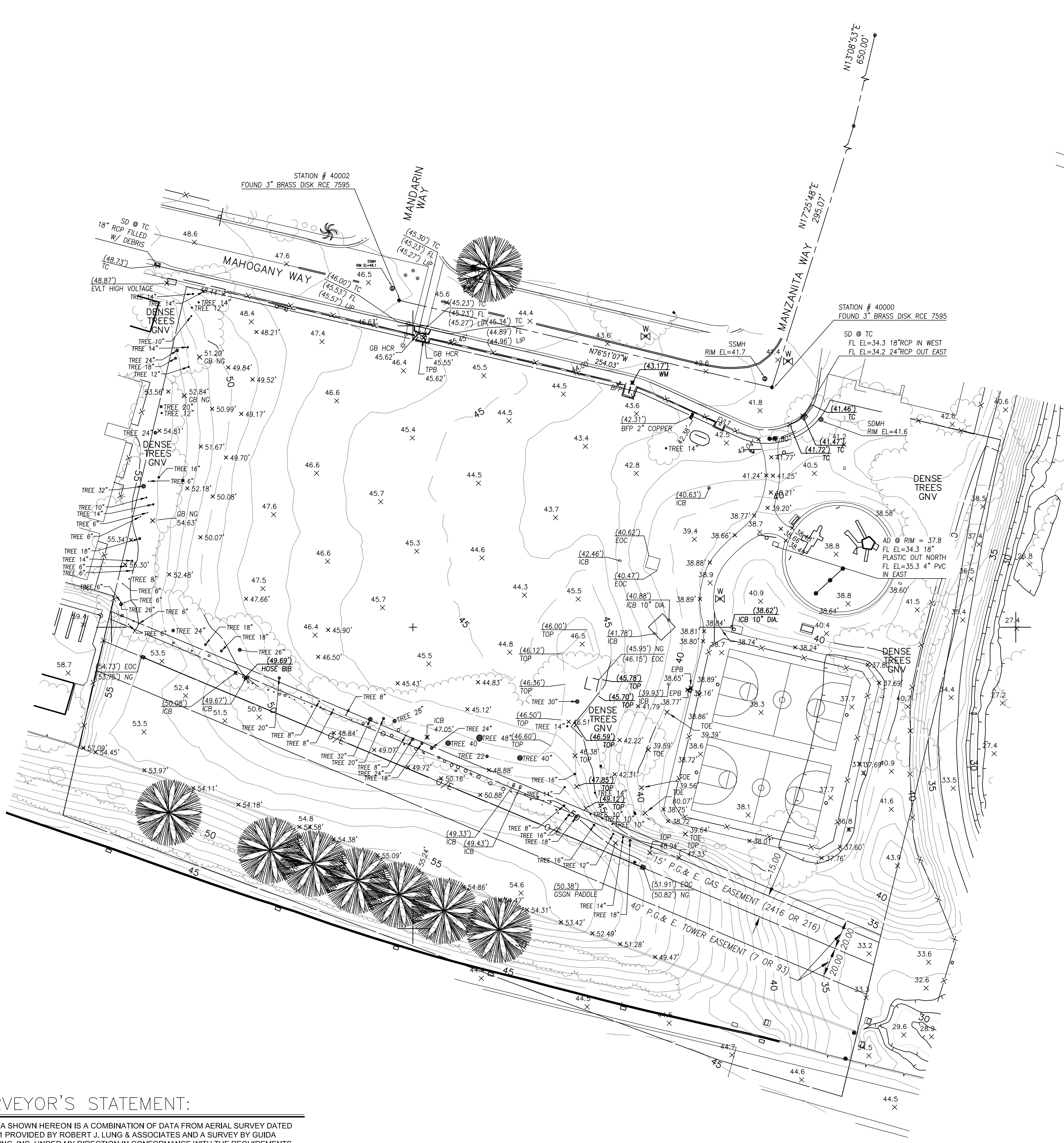
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DATE ACCEPTED: \_\_\_\_\_  
INSPECTED BY: \_\_\_\_\_  
AS BUILT REVISIONS: \_\_\_\_\_  
DATE: \_\_\_\_\_  
BY: \_\_\_\_\_

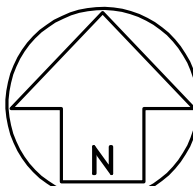
DATE: 05/2021	APPROVED BY:
DESIGNED BY:	DIRECTOR OF PUBLIC WORKS/ CITY ENGINEER
CHECKED BY: J.C	DATE: C.E.
DRAWN BY: R.W.	NO. BY DATE
REVISIONS:	

PUBLIC WORKS DEPARTMENT  
CAPITAL IMPROVEMENTS DIVISION  
CONTRA LOMA ESTATES PARK  
RENOVATION PROJECT  
SUPPLEMENTAL TOPOGRAPHIC  
SURVEY

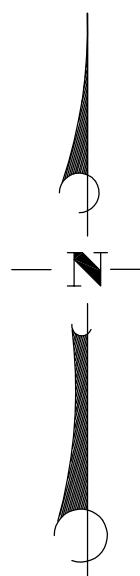
SCALE: 1"=40'  
PUBLIC WORKS  
PROJECT NO.  
SHEET 1  
OF 1 SHEET



VICINITY MAP



NOT TO SCALE



SCALE: 1"=40'

REFERENCE NOTES SCHEDULE

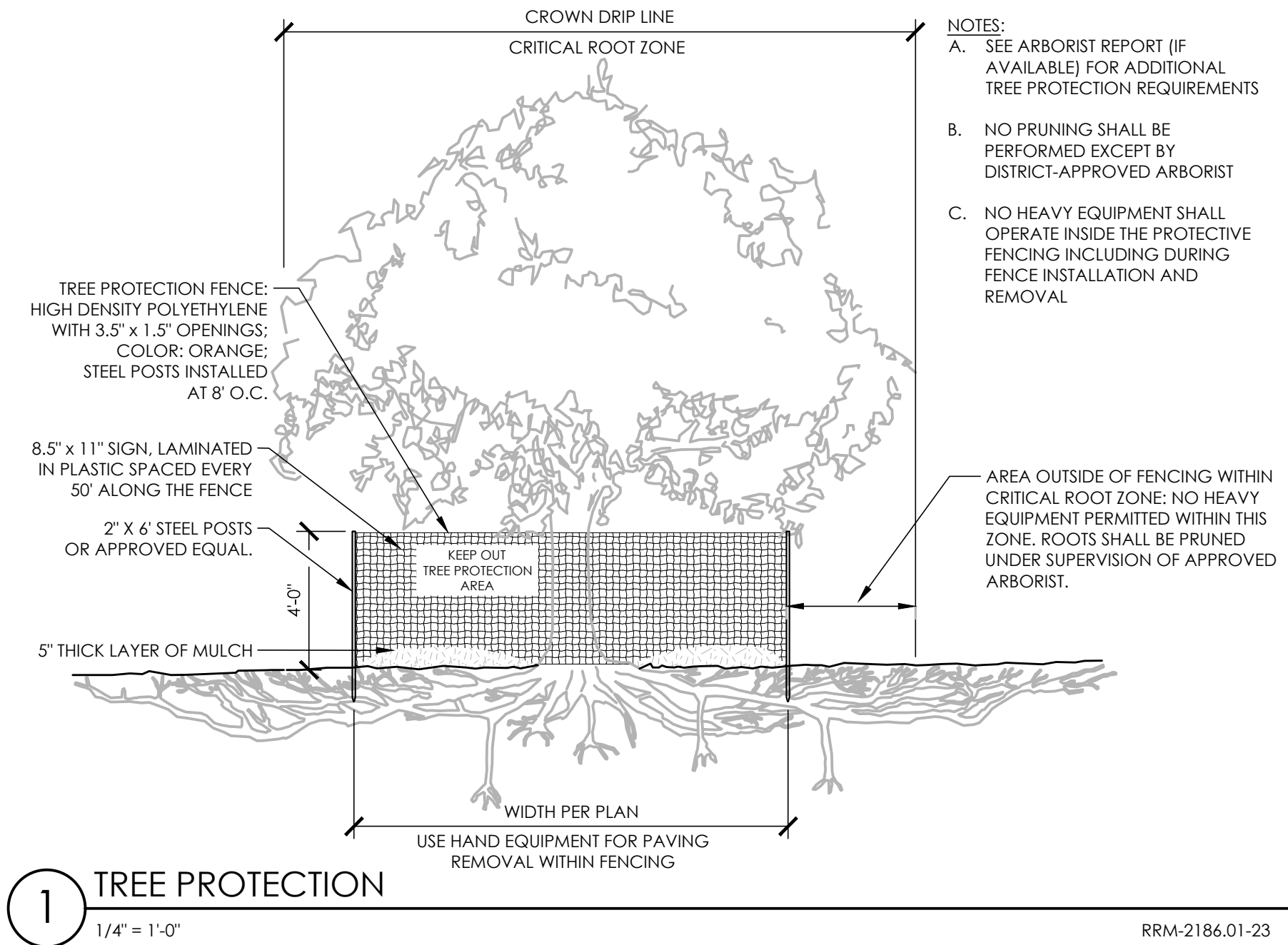
SYMBOL	DEMOLITION DESCRIPTION
D-01	REMOVE AND DISPOSE OF PICNIC TABLE AND CONCRETE SLAB
D-02	REMOVE AND DISPOSE OF BENCH AND CONCRETE SLAB
D-03	REMOVE AND DISPOSE OF PARK SIGNAGE INCLUDING FOOTINGS, GARDEN BED, AND CONCRETE BOARDER
D-04	REMOVE AND DISPOSE OF CHAINLINK FENCE, NEATLY CUT CONCRETE AROUND POSTS TO 2" MIL DEEP, SAWCUT STEEL POST AND PATCH CONCRETE
D-05	REMOVE AND DISPOSE OF TRASHCANS AND STEEL SIGN, NEATLY CUT CONCREET AROUND POSTS
D-06	REMOVE AND DISPOSE OF GROUND COVER IVY
D-07	REMOVE AND DISPOSE OF WOOD HEADER
D-08	REMOVE AND DISPOSE OF EXISTING WATER FOUNTAIN, SLAB, FOUNTAIN SHUT OFF VALVE, AND VALVE BOX.
D-09	REMOVE AND DISPOSE OF VALVE BOX
D-10	REMOVE AND DISPOSE OF EXISTING ELECTRICAL PULL BOX
D-11	REMOVE AND DISPOSE OF EXISTING IRRIGATION CONTROLLER
D-12	REMOVE AND DISPOSE OF BENCH SEAT
D-13	RETAIN AND PROTECT EXISTING UTILITIES INSIDE BOX. REPLACE CONCRETE BOX AND LID WITH NEW CONCRETE BOX AND LID. MAKE FLUSH TO ADJACENT PAVING. COORDINATE WITH UTILITY COMPANY.
D-14	REMOVE AND DISPOSE OF CONCRETE SLAB
D-15	REMOVE AND DISPOSE OF EXISTING INLET.
D-16	REMOVE AND DISPOSE OF EXISTING WATER LINE.
D-17	REMOVE AND DISPOSE OF EXISTING WATER METER.
EX-01	EXISTING MASONRY WALL, PROTECT IN PLACE
EX-02	EXISTING OVERHEAD POWER TOWER AND FOUNDATION, PROTECT IN PLACE
EX-03	EXISTING CONCRETE SIDEWALK, PROTECT IN PLACE
EX-04	EXISTING PLAYGROUND CONCRETE EDGE, PROTECT IN PLACE
EX-05	EXISTING CHAINLINK FENCING, PROTECT IN PLACE
EX-06	EXISTING PLAYGROUND EQUIPMENT, RUBBER SURFACING, AND SIGNAGE, PROTECT IN PLACE
EX-07	EXISTING CHAINLINK FENCE, PROTECT IN PLACE
EX-08	EXISTING ACCESSIBLE RAMP, PROTECT IN PLACE
EX-09	EXISTING UTILITIES BOX, PROTECT IN PLACE
EX-10	EXISTING CONCRETE SIDEWALK, PROTECT IN PLACE
EX-11	EXISTING CURB AND GUTTER, PROTECT IN PLACE
EX-12	EXISTING ABOVE GROUND IRRIGATION BACKFLOW DEVICE, PROTECT IN PLACE
EX-13	EXISTING WATER METER, PROTECT IN PLACE
EX-14	EXISTING ACCESSIBLE RAMP, PROTECT IN PLACE
EX-15	EXISTING LIGHT FIXTURE, PROTECT IN PLACE
EX-16	EXISTING CHAINLINK FENCING, PROTECT IN PLACE
EX-17	EXISTING END-POST, PROTECT IN PLACE
EX-18	EXISTING STORM DRAIN LINE, PROTECT IN PLACE
EX-19	EXISTING PARK NOTIFICATION SIGNAGE, PROTECT IN PLACE.
EX-20	EXISTING PLAYGROUND NOTIFICATION SIGNAGE, PROTECT IN PLACE.
EX-21	EXISTING PARK SIGNAGE, PROTECT IN PLACE.

DEMOLITION NOTES

- A. THIS DEMOLITION PLAN WAS PREPARED FOR THE CONVENIENCE OF THE CONTRACTOR. THE ARCHITECT AND THE ENGINEER DO NOT REPRESENT THAT ALL ITEMS WHICH MAY REQUIRE DEMOLITION AND REMOVAL HAVE BEEN SHOWN. IT SHALL BE THE RESPONSIBILITY OF THE CONTRACTOR TO CAREFULLY EXAMINE THE SITE AND DETERMINE AND EXECUTE ALL DEMOLITIONS AND REMOVALS NECESSARY FOR THE CONSTRUCTION OF THE NEW WORK TO THE SPECIFIED LINES, GRADES, AND CONFIGURATIONS.
- B. DEMOLITION WORK AND ABANDONMENT SHALL CONFORM TO THE UNIFORM BUILDING CODE, TITLE 24, AND ALL WORK SHALL BE SUBJECT TO THE APPROVAL OF THE ENGINEER OF RECORD.
- C. ALL DEMOLITION WORK SHALL CONFORM TO THE SPECIFICATIONS FOR THIS PROJECT, AND THE RECOMMENDATIONS IN THE GEOTECHNICAL ENGINEERING REPORT FOR THIS PROJECT PREPARED BY BSK ASSOCIATES.
- D. NO DEMOLITION SHALL BE STARTED WITHOUT APPROVED PLANS. THE DISTRICT AND CITY OF HAYWARD SHALL BE NOTIFIED AT LEAST 48 HOURS PRIOR TO STARTING DEMOLITION.
- E. THE PLANS DO NOT AUTHORIZE SITE DISTURBANCE BEYOND THE LIMIT OF WORK LINE AS REPRESENTED ON THE PLANS UNLESS OTHERWISE NOTED.
- F. ALL ITEMS DAMAGED DURING DEMOLITION AND CONSTRUCTION SHALL BE REPLACED TO ORIGINAL CONDITION OR BETTER TO THE SATISFACTION OF THE DISTRICT AND CITY OF ANTIOCH.
- G. THE CONTRACTOR SHALL BE RESPONSIBLE FOR THE PROPER STORAGE AND TRANSPORTATION OF ANY ITEMS TO BE RELOCATED.
- H. ALL ITEMS TO BE SALVAGED, INCLUDING BUT NOT LIMITED TO ALL IRRIGATION REMOTE CONTROL BRASS VALVES, ARE THE PROPERTY OF THE CITY. THE CONTRACTOR SHALL SALVAGE AND DELIVER TO THE CITY CORP YARD ANY ITEMS AT THE REQUEST OF THE OWNER.
- I. ALL DEBRIS FROM THE DEMOLITION PROCESS SHALL BE REMOVED FROM THE SITE AND DISPOSED OF AT THE CONTRACTOR'S EXPENSE UNLESS OTHERWISE NOTED.
- J. ALL STREETS, ALLEYS, VEHICULAR WAYS, SIDEWALKS, AND HAUL ROUTES SHALL BE KEPT CLEAN AND CLEAR OF DEBRIS, DIRT AND DUST IN A MANNER ACCEPTABLE TO THE CITY. AT A MINIMUM, THESE AREAS SHALL BE CLEANED AT THE END OF EACH WORK DAY. FAILURE TO DO SO WILL RESULT IN A "STOP WORK" NOTICE. SAID NOTICE WILL NOT BE RELEASED UNTIL THE AREA HAS BEEN CLEANED TO THE SATISFACTION OF THE CITY. THE FLUSHING OF DIRT OR DEBRIS INTO STORM DRAIN OR SANITARY SEWER FACILITIES SHALL NOT BE PERMITTED.
- K. ALL ABANDONED UTILITIES SHALL BE MARKED IN THE FIELD AND LOCATED ON THE DRAWINGS OF RECORD BY THE CONTRACTOR.
- L. IT IS THE CONTRACTOR'S RESPONSIBILITY TO VERIFY THE LOCATIONS OF ALL EXISTING UTILITIES PRIOR TO START OF CONSTRUCTION. EXISTING UTILITIES AND IMPROVEMENTS SHOWN ON THESE PLANS ARE FROM RECORD SOURCES AND SPOT CHECKS. UTILITIES ARE SHOWN FOR DESIGN PURPOSES ONLY.
- M. THE CONTRACTOR SHALL ONLY REMOVE THOSE UNDERGROUND FACILITIES SPECIFICALLY NOTED FOR REMOVAL. DAMAGE TO EXISTING FACILITIES TO REMAIN SHALL BE CORRECTED AT THE CONTRACTOR'S EXPENSE.
- N. CONTRACTOR SHALL BE RESPONSIBLE FOR NOTIFICATION OF ALL UTILITY COMPANIES 48 HOURS PRIOR TO THE BEGINNING OF WORK. BRING ANY CONFLICTS WITH NEW IMPROVEMENTS IMMEDIATELY TO THE ATTENTION OF THE DISTRICT.
- O. NOTIFY UNDERGROUND SERVICE ALERT (USA) TOLL FREE AT 811 A MINIMUM OF 48 WORKING HOURS PRIOR TO THE START OF CONSTRUCTION.
- P. CONTRACTOR SHALL NOT INTERRUPT ANY SERVICES OR DISRUPT THE OPERATION OF ADJACENT BUSINESSES, RESIDENTIAL AREAS OR ONSITE FACILITIES OUTSIDE THE LIMIT OF WORK LINE.
- Q. CONTRACTOR SHALL OBTAIN A DEMOLITION PERMIT FROM THE CITY FOR WORK WITHIN CITY RIGHT OF WAY PRIOR TO THE START OF WORK.
- R. CONTRACTOR SHALL COMPLY WITH CITY'S CONSTRUCTION AND DEMOLITION RECYCLING DEBRIS REQUIREMENTS. CONTRACTOR SHALL COMPLETE "CONSTRUCTION & DEMOLITION DEBRIS RECYCLING STATEMENT" FORM PRIOR TO SUBMITTING FOR A FINAL INSPECTION.
- S. REMOVE ALL TREES AND GRIND TREE STUMPS INDICATED ON THE PLANS. REMOVE TREES, TOGETHER WITH THE BULK OF THE ROOTS, TO A MINIMUM DEPTH OF 24 INCHES BELOW EXISTING GRADE AND WITHIN A RADIUS OF 7 FEET BEYOND THE PERIMETER OF THE TRUNK AT GROUND LINE. CHIP AND STOCKPILE ON SITE FOR USE AS MULCH PER PLANTING PLAN.
- T. FILL AND COMPACT HOLES RESULTING FROM TREES AND TREE STUMP REMOVAL TO REQUIRED DENSITY. FILLING SHALL NOT BE DONE UNTIL HOLES HAVE BEEN APPROVED BY THE CITY'S REPRESENTATIVE.
- U. CLEAR AND GRUB ALL UNDERSTORY VEGETATION UNLESS NOTED OTHERWISE.
- V. CITY ARBORIST TO BE CONTACTED IF ROOTS BIGGER THAN 2" NEED TO BE CUT.

GENERAL NOTES

1. HOURS OF WORK SHALL BE 8 AM TO 5 PM MONDAY THROUGH FRIDAY, EXCEPT CITY OF ANTIOCH HOLIDAYS.
2. PROPOSED WOOD RAIL FENCE TO BE SETBACK FROM EDGE OF EXISTING CONCRETE PATH ((OR DO WE WANT TO SURFACE MOUNT WOOD FENCE))



90% CDs

DATE ACCEPTED: \_\_\_\_\_

INSPECTED BY: \_\_\_\_\_

AS BUILT REVISIONS:

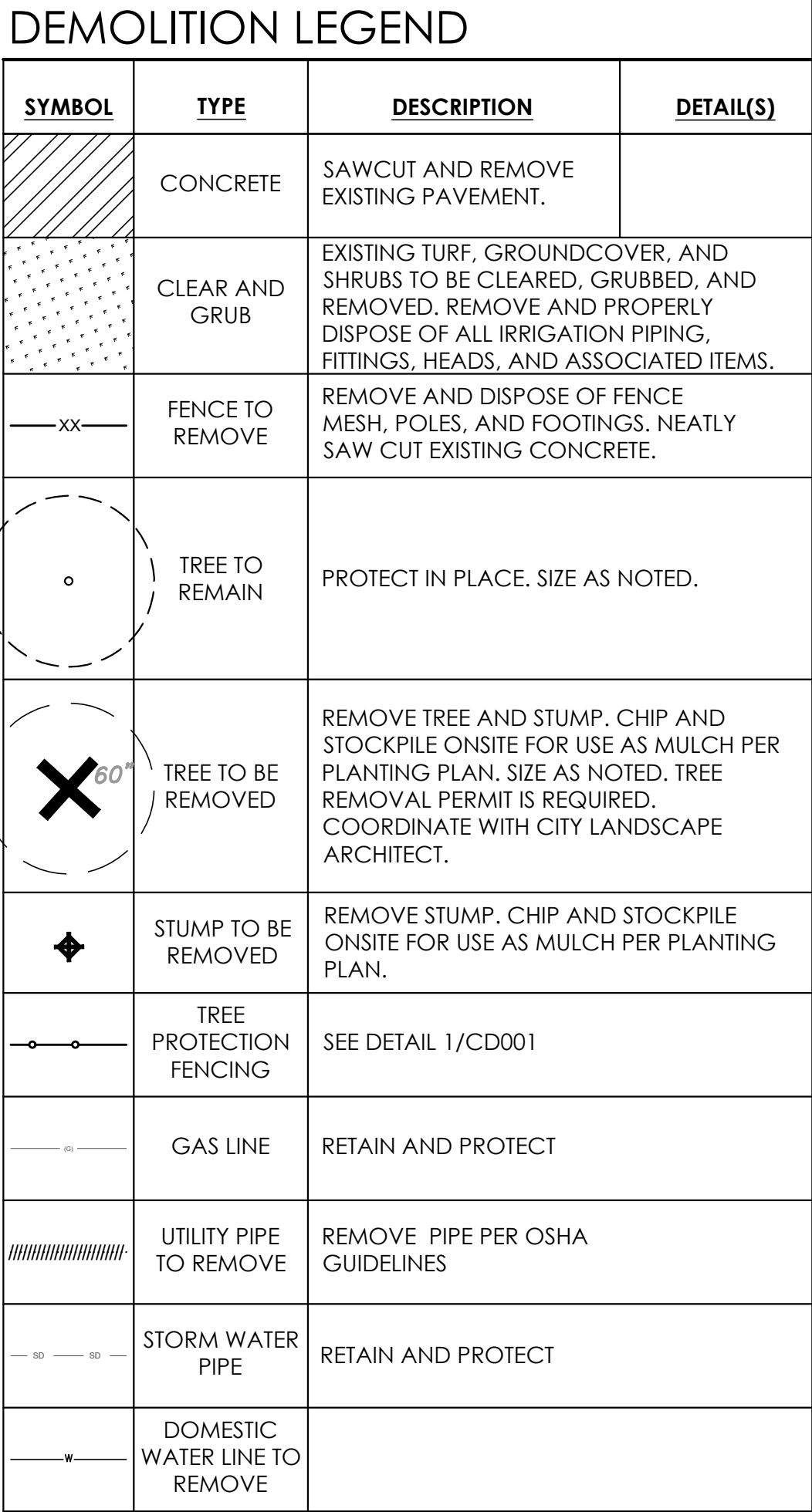
DATE: \_\_\_\_\_

BY: \_\_\_\_\_

DATE: MARCH/25/2022	APPROVED BY:		
DESIGNED BY: JS			
CHECKED BY: GC	DIRECTOR OF PUBLIC WORKS/ CITY ENGINEER		
DRAWN BY: YI	DATE:	C.E.	
REVISIONS:	NO.	BY	DATE

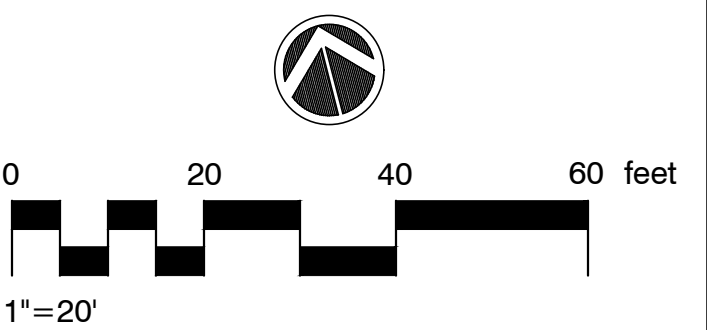
PUBLIC WORKS DEPARTMENT CAPITAL IMPROVEMENTS DIVISION	SCALE: PUBLIC WORKS PROJECT NO.
CONTRA LOMA ESTATES PARK RENOVATION PROJECT <b>DEMOLITION SCHEDULE &amp; NOTES CD001</b>	SHEET <u>5</u>  OF <u>40</u> SHEETS





NOTES:

1. CONTRACTOR TO VERIFY INFIELD UTILITIES, EQUIPMENT, AND TREES IN APPROXIMATE LOCATIONS.
2. ANY DAMAGED EXISTING FRONTAGE IMPROVEMENTS SUCH AS CURB, GUTTER, SIDEWALK, STREET LIGHT, SIGNAL ETC SHALL BE REMOVED AND REPLACED BY CONTRACTOR AND AT CONTRACTORS EXPENSE.





GENERAL EROSION CONTROL NOTES

- IF WATER MONITORING BECOMES NECESSARY PER THE REQUIREMENTS OF THE GENERAL PERMIT, THEN THE PERSON OR PERSONS DOING THE MONITORING SHALL HAVE THE APPROPRIATE TRAINING AND QUALIFICATION TO PERFORM SUCH MONITORING.
- THE QSP SHALL ASSURE ALL SAFETY PRECAUTIONS NECESSARY HAVE BEEN IMPLEMENTED TO DO THE WATER MONITORING.
- A STANDBY CREW FOR EMERGENCY WORK SHALL BE AVAILABLE AT ALL TIMES DURING THE RAINY SEASON (OCTOBER 15 THROUGH APRIL 15). NECESSARY MATERIALS SHALL BE AVAILABLE AND STOCKPILED AT CONVENIENT LOCATIONS TO FACILITATE RAPID CONSTRUCTION OF TEMPORARY DEVICES WHEN RAIN IS IMMINENT.
- THE CONTRACTOR SHALL CONSTRUCT TEMPORARY EROSION CONTROL MEASURES AS SHOWN ON THIS PLAN AND/OR AS DIRECTED BY THE ENGINEER TO CONTROL DRAINAGE WHICH HAS BEEN AFFECTED BY GRADING AND/OR TRENCHING
- THE CONTRACTOR WILL BE ON CALL IN THE EVENT IT IS NECESSARY TO IMPLEMENT EROSION CONTROL MEASURES OR IN THE EVENT OF AN EMERGENCY.
- ALL STORMWATER CONTROL MEASURES THAT ARE IDENTIFIED IN THE REAP SHALL BE IN PLACE MIN. OF 24 HRS. PRIOR TO FORECAST RAINS.
- AFTER A RAINSTORM, ALL BMP'S SHALL BE INSPECTED AND ANY BUILDUP OF SEDIMENTS SHALL BE REMOVED AND DISPOSED OF IN AN APPROVED MANNER.
- THE ENGINEER OF RECORD OR AN AUTHORIZED REPRESENTATIVE MAY REQUIRE THE DEVELOPER AT ANY TIME TO INSTALL AND/OR CONSTRUCT ADDITIONAL DRAINAGE STRUCTURES AS NECESSARY TO PREVENT OR CONTROL EROSION.
- THE EROSION CONTROL DEVICES ON THIS PLAN ARE A GENERAL CONCEPT OF WHAT MAY BE REQUIRED. EROSION CONTROL DEVICES MAY BE RELOCATED, DELETED OR ADDITIONAL ITEMS MAY BE REQUIRED DEPENDING ON THE ACTUAL SOIL CONDITIONS ENCOUNTERED.
- THE CONTRACTOR IS RESPONSIBLE TO KEEP IN FORCE ALL EROSION CONTROL DEVICES AND TO MODIFY THOSE DEVICES AS SITE PROGRESS DICTATES.
- THE CONTRACTOR SHALL MONITOR THE EROSION CONTROL DEVICES DURING STORMS AND MODIFY THEM IN ORDER TO PREVENT PROGRESS OF ANY ONGOING EROSION.
- THE CONTRACTOR IS RESPONSIBLE FOR CLEANING ANY EROSION OR DEBRIS SPILLING ONTO A PUBLIC STREET DAILY.
- THE CONTRACTOR SHALL CONTACT THE ENGINEER OF RECORD IN THE EVENT THAT THE EROSION CONTROL PLAN AS DESIGNED REQUIRES ANY SUBSTANTIAL REVISIONS.
- DURING GRADING OPERATIONS IF AN AREA OF DISTURBANCE IS TO REMAIN IDLE FOR A PERIOD OF 2 OR MORE WEEKS, THE DISTURBED AREAS SHALL BE COVERED WITH MULCH, STRAW OR SOME OTHER TYPE OF BMP TO PREVENT EROSION DURING RAIN EVENTS.
- THE CONTRACTOR SHALL PROVIDE STREET SWEEPING ONGOING DURING CONSTRUCTION TO PREVENT ANY SEDIMENTS FROM BEING TRACKED OFF-SITE OR TO AREAS THAT MAY CONTRIBUTE TO SEDIMENTS BEING DEPOSITED INTO THE STORM DRAIN SYSTEM.
- POST CONSTRUCTION BMP'S INCLUDING PLANTINGS, SHRUBS, GROUND COVER AND TREES AS SHOWN ON THE LANDSCAPING PLANS SHALL BE IN PLACE AS SOON AS PRACTICAL.
- CONTRACTOR TO INSTALL SILT FENCING AT ALL PERIMETER LOCATIONS THAT HAVE THE POTENTIAL TO DISCHARGE STORMWATER OFF-SITE.
- CONTRACTOR TO PROTECT ALL YARD AND LANDSCAPE AREA DRAINS FROM SEDIMENTS UNTIL LANDSCAPING IS COMPLETED AND VEGETATION ESTABLISHED.
- GRAVEL BAGS ORIENTED TO SLOW THE FLOW OF STORM WATER RUNOFF SHALL BE PLACED IN THE CONCRETE GUTTERS IN THE ON-SITE ROADWAY TO HELP FILTER OUT ANY SEDIMENTS. THESE GRAVEL BAGS SHALL BE PLACED 50' O/C MAX. SEDIMENTS THAT ACCUMULATE AT THE GRAVEL BAGS SHALL BE REMOVED AFTER EACH RAIN EVENT.
- THE CONTRACTOR SHALL KEEP TWO ACCEPTABLE RAIN GAUGES ON-SITE TO MONITOR RAIN EVENTS DURING CONSTRUCTION.
- THE CONTRACTOR SHALL IMPLEMENT EFFECTIVE WIND EROSION CONTROLS.
- IN THE EVENT OF A RELEASE OF A REPORTABLE QUANTITY OF A POLLUTANT, THE CONTRACTOR SHALL ADVISE THE OWNER TO NOTIFY THE NATIONAL RESPONSE CENTER AND THE COUNTY. IF NECESSARY, THIS POLLUTION PREVENTION PLAN SHOULD BE REVISED TO REFLECT THE CHANGE IN CONDITIONS OF THE CONSTRUCTION ACTIVITY. A REPORTABLE QUANTITY IS ESTABLISHED BY THE 40 CODE OF FEDERAL REGULATIONS (CFR) 1117.3 OR 40 CFR 302.4.
- EROSION CONTROL MEASURES SHALL BE IMPLEMENTED AND MAINTAINED TO THE SATISFACTION OF THE BUILDING OFFICIAL AND PUBLIC WORKS DIRECTOR DURING ALL DEMOLITIONS, CONSTRUCTION AND GROUND DISTURBING ACTIVITIES.
- TEMPORARY EROSION CONTROL MEASURES SHALL BE REMOVED WHEN PERMANENT IMPROVEMENTS, PLANTINGS, AND FACILITIES ARE IN PLACE. TEMPORARY MEASURES SHALL BE REMOVED PRIOR TO FINAL INSPECTION APPROVALS.
- STOCKPILE MANAGEMENT SHALL BE IN CONFORMANCE WITH GENERAL PERMIT AND THE CASQA BMP GUIDE.
- IF DURING CONSTRUCTION DEWATERING OPERATIONS BECOME NECESSARY, ALL DEWATERING SHALL BE DONE IN COMPLIANCE WITH THE REQUIREMENTS OUTLINED THE NPDES GENERAL PERMIT, REGIONAL WATER QUALITY CONTROL BOARD, CASQA BMP HANDBOOK FOR BMP SC-11, PROJECT GEOTECHNICAL REPORT.

GOOD HOUSEKEEPING PRACTICES

- THE CONTRACTOR SHALL IMPLEMENT GOOD HOUSEKEEPING PRACTICES AS OUTLINED IN THE GENERAL PERMIT AND PER THE SWPPP.
- THE CONTRACTOR SHALL CONDUCT AN INVENTORY OF THE PRODUCTS USED AND/OR EXPECTED TO BE USED AND THE END PRODUCTS THAT ARE PRODUCED AND/OR EXPECTED TO BE PRODUCED.
- COVER AND BERM LOOSE STOCKPILED CONSTRUCTION MATERIALS THAT ARE NOT ACTIVELY BEING USED.
- STORE CHEMICALS IN WATERTIGHT CONTAINERS (WITH APPROPRIATE SECONDARY CONTAINMENT TO PREVENT ANY SPILLAGE OR LEAKAGE) OR IN A STORAGE SHED (COMPLETELY ENCLOSED).
- ALL EQUIPMENT AND VEHICLE FUELING AND MAINTENANCE PROCEDURES SHALL BE DONE IN THE AREA SHOWN ON THE SITE PLANS OR OTHER LOCATION WHERE THE APPROPRIATE BMP'S HAVE BEEN INSTALLED TO PREVENT ANY CONTAMINATION OF THE SOILS.
- THE CONTRACTOR SHALL USE SOME TYPE OF GROUND COVER OR OTHER DEVICES TO INSURE NO PETROLEUM PRODUCTS COME IN CONTACT WITH SOILS DURING FUELING AND MAINTENANCE.
- THE CONTRACTOR SHALL PROVIDE APPROPRIATE CONTAINMENT AROUND ANY SANITARY TOILETS THAT PREVENT CONTAMINATION TO THE SOILS.
- ANY BUILDING MATERIALS THAT ARE STORED ON-SITE THAT HAVE THE POTENTIAL TO CONTRIBUTE NON-VISIBLE POLLUTANTS TO THE STORM WATER RUNOFF SHALL BE STORED IN WATERTIGHT CONTAINERS OR UNDER THE COVER OF SHELTERS THAT PROVIDE PROTECTION FROM RAINS.
- CONSTRUCTION MATERIAL WASTES SHALL BE CLEANED UP DAILY AND STORED IN COVERED CONTAINERS PRIOR TO DISPOSAL.
- THE CONTRACTOR HAS THE OPTION TO USE METAL SHAKER BOARDS IN LIEU OF RIP RAP AT THE CONSTRUCTION ENTRANCE AS LONG AS IT PROVIDES ADEQUATE TIRE CLEANING ABILITIES.

AIR QUALITY CONTROL NOTES

THE FOLLOWING PRACTICES ARE TO BE USED AT ALL TIMES DURING CONSTRUCTION:

- REDUCE THE AMOUNT OF DISTURBED AREA WHERE POSSIBLE.
- USE WATER TRUCKS OR SPRINKLER SYSTEMS IN SUFFICIENT QUANTITY TO PREVENT AIRBORNE DUST FROM LEAVING THE SITE. INCREASED WATERING FREQUENCY WILL BE REQUIRED WHENEVER WIND SPEEDS EXCEED 15MPH. RECLAIMED (NON-POTABLE WATER) WATER SHOULD BE USED WHENEVER POSSIBLE.
- PERMANENT DUST CONTROL MEASURES IDENTIFIED IN THE APPROVED PROJECT LANDSCAPE PLANS SHALL BE IMPLEMENTED AS SOON AS POSSIBLE FOLLOWING COMPLETION OF ANY SOIL DISTURBING ACTIVITIES.
- EXPOSED GROUND AREAS THAT ARE PLANNED TO BE REWORKED AT DATES GREATER THAN ONE MONTH AFTER INITIAL GRADING SHALL BE SOWN WITH A FAST GERMINATING NATIVE GRASS SEED AND WATERED UNTIL VEGETATION IS ESTABLISHED.
- ALL DISTURBED SOIL AREAS NOT SUBJECT TO RE-VEGETATION MUST BE STABILIZED USING APPROVED CHEMICAL SOIL BINDERS, JUTE NETTING, OR OTHER METHODS APPROVED IN ADVANCE BY THE COUNTY.
- ALL ROADWAYS, DRIVEWAYS, SIDEWALKS, ETC. TO BE PAVED SHOULD BE COMPLETED AS SOON AS POSSIBLE. IN ADDITION, BUILDING PADS SHOULD BE LAID AS SOON AS POSSIBLE AFTER GRADING UNLESS SEEDING OR SOIL BINDERS ARE USED.
- VEHICLE SPEED FOR ALL CONSTRUCTION VEHICLES SHALL NOT EXCEED 15MPH ON ANY UNPAVED SURFACE AT THE CONSTRUCTION SITE.
- ALL TRUCKS HAULING DIRT, SAND, SOIL, OR OTHER LOOSE MATERIAL ARE TO BE COVERED OR SHOULD MAINTAIN AT LEAST TWO FEET OF FREEBOARD (MINIMUM VERTICAL DISTANCE BETWEEN TOP OF LOAD AND TOP OF TRAILER) IN ACCORDANCE WITH THE CALIFORNIA VEHICLE CODE SECTION 23114.
- INSTALL WHEEL WASHERS WHERE VEHICLES ENTER AND EXIT UNPAVED ROAD AND STREETS, OR WASH OFF TRUCKS AND EQUIPMENT LEAVING THE SITE.
- SWEEP STREETS AT THE END OF EACH DAY IF VISIBLE SOIL MATERIAL IS CARRIED ONTO ADJACENT PAVED ROADS. WATER SWEEPERS WITH RECLAIMED WATER SHOULD BE USED WHERE FEASIBLE.

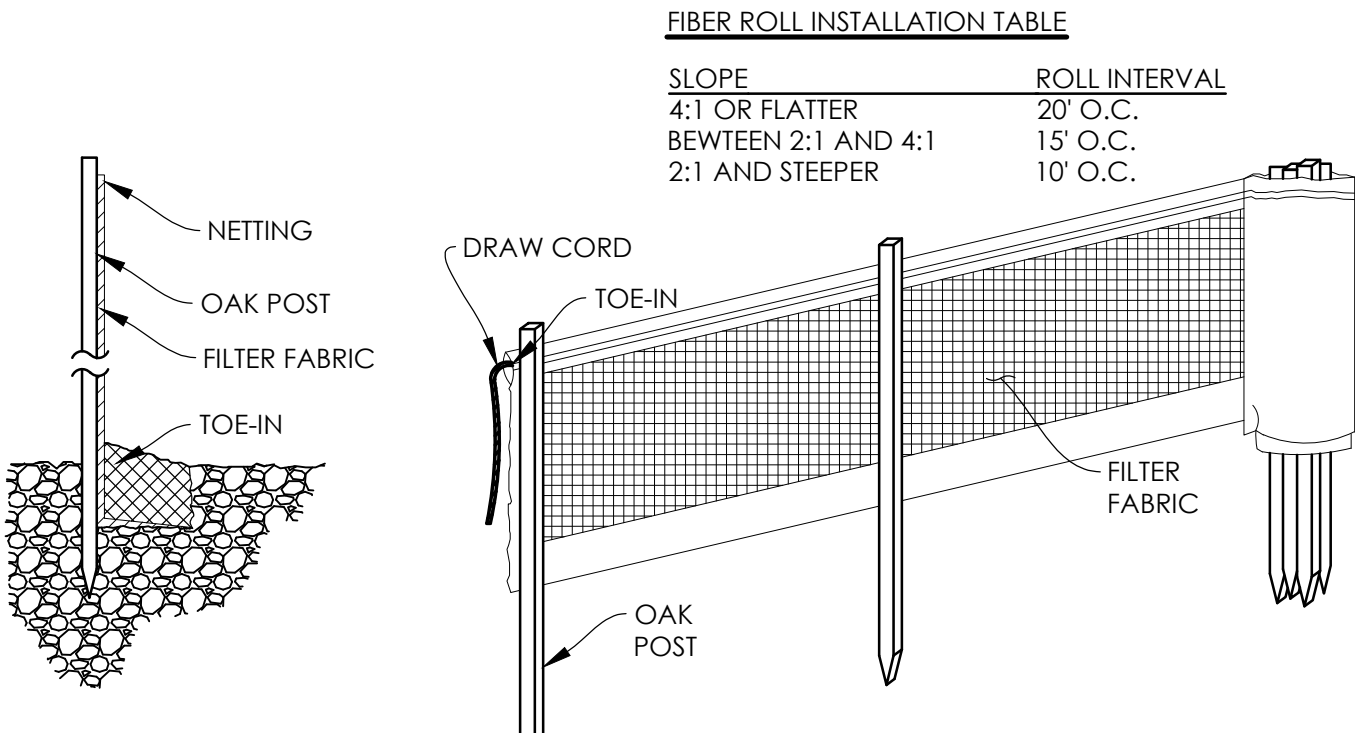
A DESIGNATED DUST CONTROL MONITOR SHALL BE CHOSEN. THEY SHALL BE RESPONSIBLE FOR IMPLEMENTATION OF ALL DUST CONTROL MEASURES. THE MONITOR SHALL BE AVAILABLE DURING WEEKENDS AND HOLIDAYS. THE NAME AND 24/7 CONTACT INFORMATION OF THE MONITOR SHALL BE PROVIDED TO THE COUNTY AND APCD.

PHASING NOTES

- THE CONTRACTOR SHALL PHASE CONSTRUCTION ROUGH GRADING TO LIMIT THE SIZE OF DISTURBANCE TO AN AREA THAT CAN BE MAINTAINED WITH PROPER BMP'S DURING ANY RAIN EVENTS.
- AFTER AN AREA HAS BEEN PAVED THE CONTRACTOR SHALL PROVIDE GRAVEL BAGS IN THE FLOW LINES TO FILTER SEDIMENTS FROM STORM WATER RUNOFF OR AN APPROVED EQUAL.
- AREA DRAINS SHALL HAVE STORM DRAIN INLET PROTECTION INSTALLED DURING THE TIME BETWEEN INSTALLATION AND PLANTING OF GROUND VEGETATION PER THE PLANS OR AN APPROVED EQUAL.
- LANDSCAPED AREAS SHALL BE COMPLETED AND SPRINKLERS INSTALLED AS SOON AS POSSIBLE AFTER GRADING OPERATIONS.
- ANY AREAS OF DISTURBANCE THAT WILL REMAIN IDLE FOR TWO OR MORE WEEKS SHALL BE STABILIZED WITH MULCH, STRAW, HYDROSEED OR OTHER APPROPRIATE BMP COVER.
- DURING ASPHALT PATCHING OPERATIONS, THE CONTRACTOR SHALL PROVIDE EITHER PERMANENT OR TEMPORARY PAVING IN THE AREAS OF PATCHING BY THE END OF THE WORK DAY. NO TRENCHES SHALL BE LEFT OPEN DURING TIMES OF PREDICTED RAINFALL.
- THE AREAS SHOWN ON THE PLANS FOR MATERIAL DELIVERY & STORAGE AND CONCRETE WASTE MANAGEMENT ARE FOR REFERENCE ONLY. THE ACTUAL LOCATIONS ARE TO BE DETERMINED BY THE QSP.
- THE BMP'S SHOWN ON THE EROSION CONTROL PLANS ARE INTENDED AS A GUIDELINE FOR THE CONTRACTOR'S QSP. IMPLEMENTATION OF THESE OR OTHER BMP'S WILL BE THE RESPONSIBILITY OF THE QSP.
- ALL ROADWAYS SHALL BE KEPT CLEAN ON A DAILY BASIS BY MEANS OF VACUUMING OR STREET SWEEPINGS.
- ROADWAYS THAT HAVE NOT BEEN STABILIZED WITH AGGREGATE BASE SHALL BE STABILIZED USING SOIL BINDERS, MULCH AND/OR OTHER APPROPRIATE BMP'S PRIOR TO FORECAST RAIN EVENTS.
- PRIOR TO FORECAST RAIN EVENTS, THE QSP SHALL EVALUATE THE SITE AND ESTABLISH ADEQUATE BMP'S TO PROTECT ALL DISTURBED AREAS FROM EROSION.
- STORM DRAIN INLET PROTECTION SHALL BE TYPE 2 DURING STORM DRAIN INSTALLATIONS, AND TYPE 3 AFTER PAVING OPERATIONS HAVE BEEN COMPLETED. (SEE BMP GUIDANCE HANDOUT IN THE SWPPP FOR MORE INFORMATION).
- THE STRAW WATTLES SHOWN ON THESE PLANS ARE INTENDED TO REPRESENT DIFFERENT PHASES OF CONSTRUCTION. CONTRACTOR SHALL INCORPORATE THEIR USE AS NEEDED DURING CONSTRUCTION.

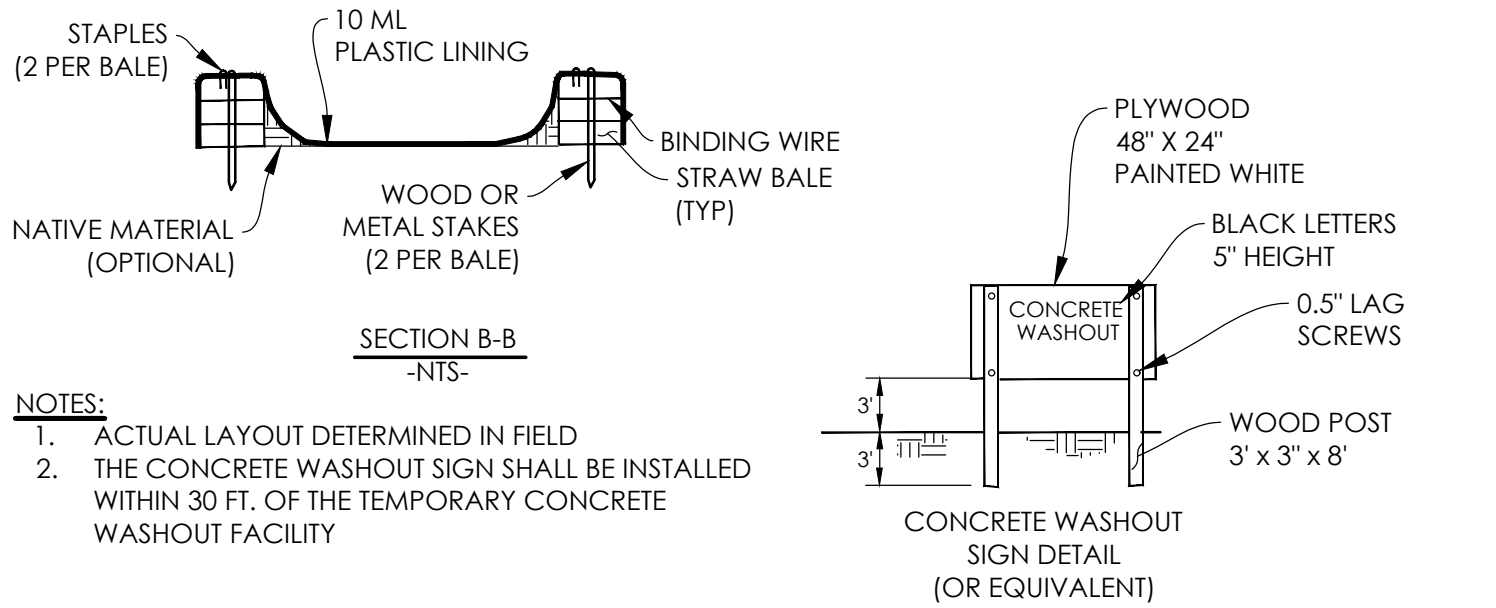
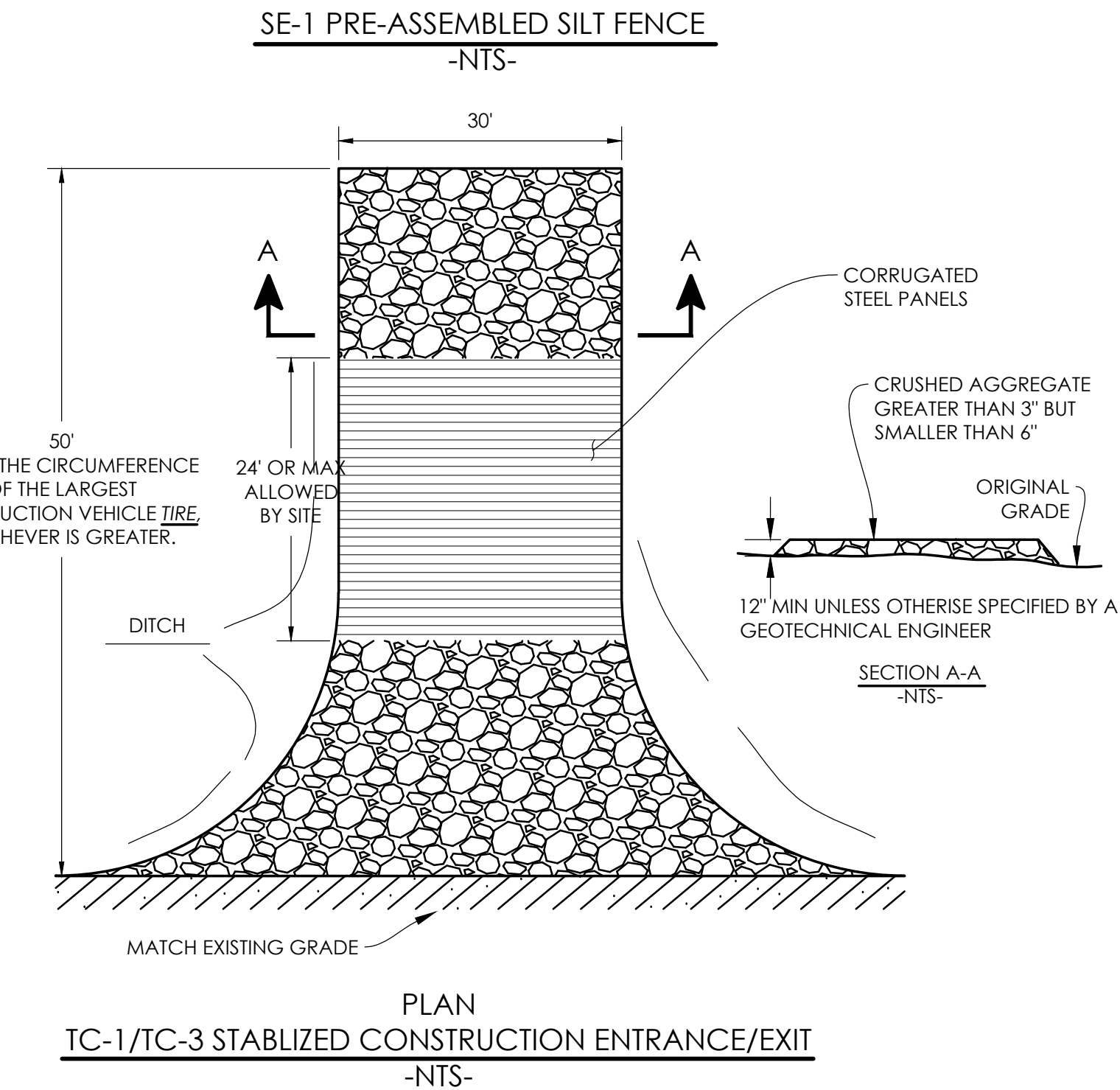
EROSION CONTROL NOTES

- ALL 4:1 & STEEPER SLOPES TO BE HYDROSEEDDED AFTER COMPLETION OF GRADING OPERATIONS.
- DRAINAGE SWALES TO HAVE EROSION CONTROL MATTING (NORTH AMERICAN C-125 OR APPROVED EQUAL).
- THE BMP'S PROPOSED ON THESE PLANS ARE INTENDED AS A GUIDELINE FOR THE CONTRACTOR. OTHER AND/OR MOVES EXTENSIVE MEASURES MAY BECOME NECESSARY DURING CONSTRUCTION, AND WILL BE THE RESPONSIBILITY OF THE CONTRACTOR TO IMPLEMENT.



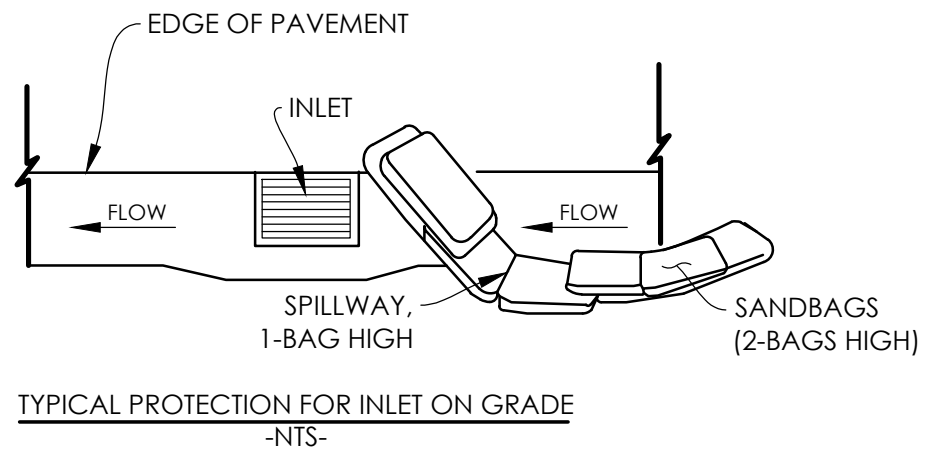
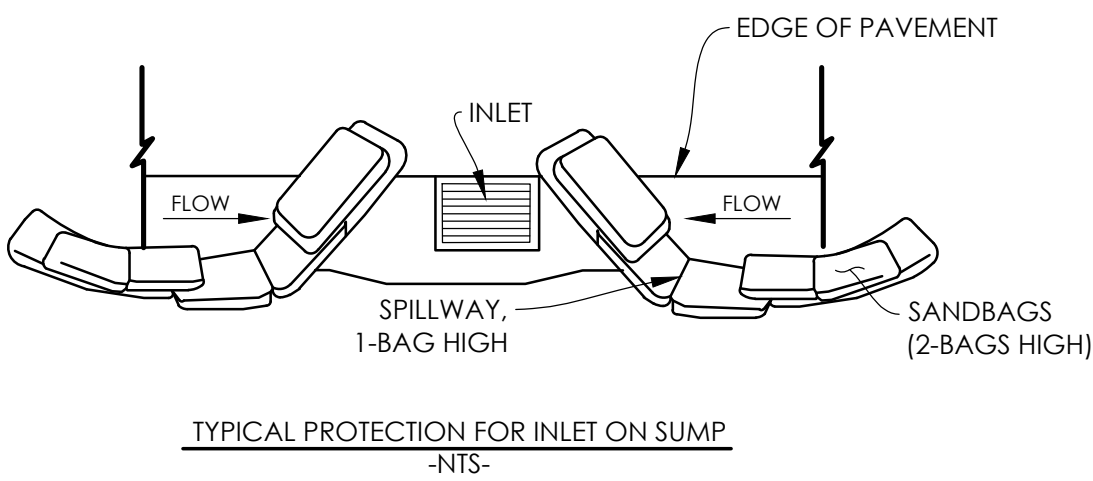
INSTALLATION PROCEDURES:

- DIG A 6" x 6" TRENCH AT DESIRED FENCE LOCATION
- UNROLL SILT FENCE ALONG TRENCH
- DRIVE STAKES INTO THE DOWNHILL SIDE OF TRENCH WITH NETTING AND STAKES FACING THE DOWNHILL SIDE.
- LAY THE BOTTOM 6" OF FABRIC INTO THE TRENCH AND FILL WITH TOP SOIL FOR PROPER TOE-IN.
- DRAW TENSION CORD AT TOP OF FENCE AND TIE TO END STAKES.



WM-8 CONCRETE WASTE MANAGEMENT

-NTS-



NOTES:

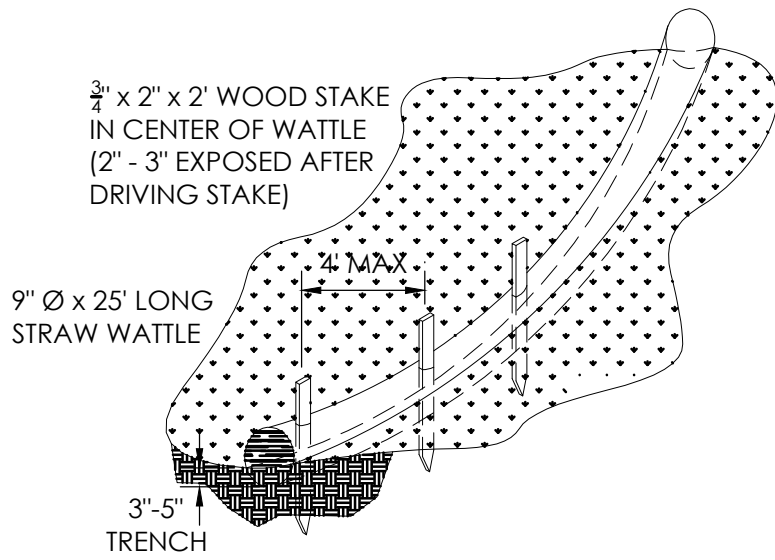
- INTENDED FOR SHORT TERM USE
- USE TO INHIBIT NON-STORM WATER FLOWS
- ALLOW FOR PROPER MAINTENANCE AND CLEANUP
- BAGS MUST BE REMOVED AFTER ADJACENT OPERATION IS COMPLETE
- NOT APPLICABLE IN AREAS WITH HIGH SILTS & WITHOUT FILTER FABRIC

SE-10 STORM DRAIN INLET PROTECTION TYPE-3

-NTS-

SE-10 STORM DRAIN INLET PROTECTION TYPE-3

-NTS-

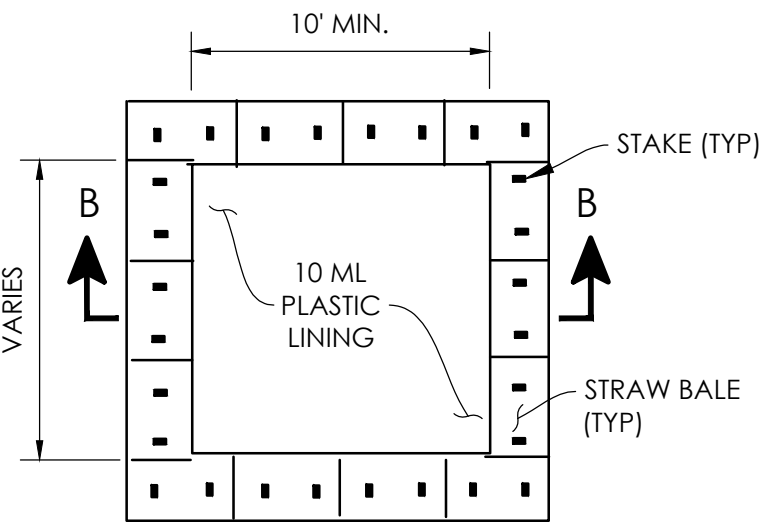
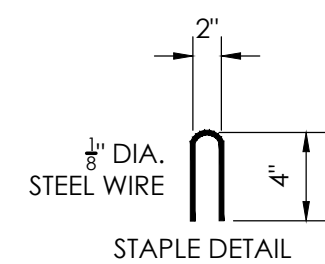


NOTES:

PLACE NET-WRAPPED STRAW WATTLE IN TRENCH. WATTLE TO BE TIGHTLY BUTTED END TO END BUT NOT OVERLAPPING. MINIMUM 6 STAKES PER 25' OF WATTLE.

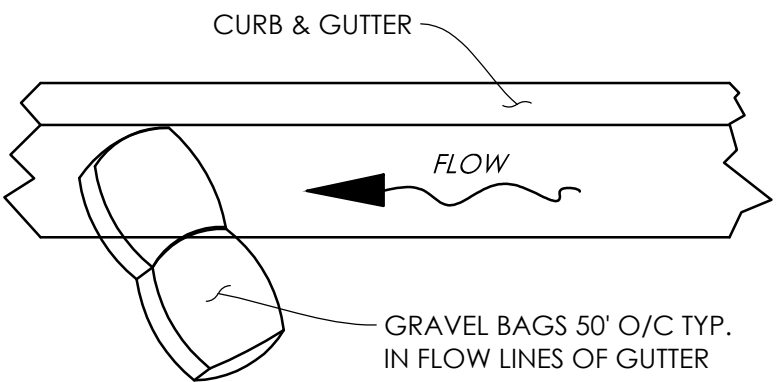
SE-5 STRAW WATTLE DETAIL

-NTS-



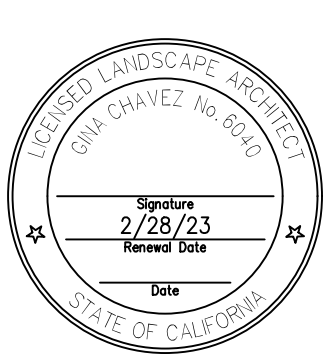
"ABOVE GRADE" WITH STRAW BALES

-NTS-



SE-6 GRAVEL BAGS IN FLOW LINE DETAIL

-NTS-



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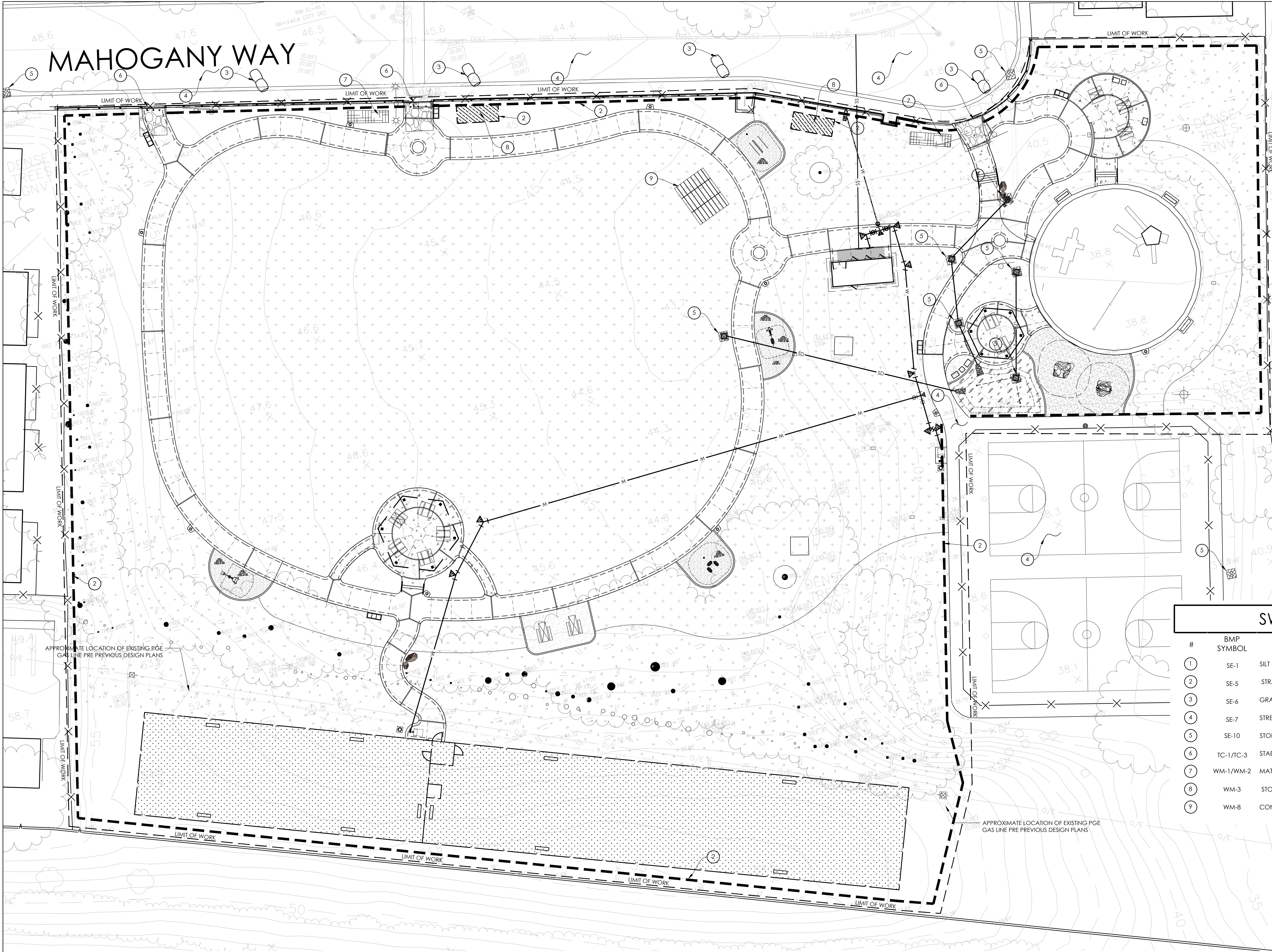
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BY: \_\_\_\_\_

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CHECKED BY: GC	DATE: C.E.
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PUBLIC WORKS DEPARTMENT CAPITAL IMPROVEMENTS DIVISION	SCALE: PUBLIC WORKS PROJECT NO.
CONTRA LOMA ESTATES PARK RENOVATION PROJECT EROSION CONTROL NOTES CE001	SHEET 7 OF 40 SHEETS

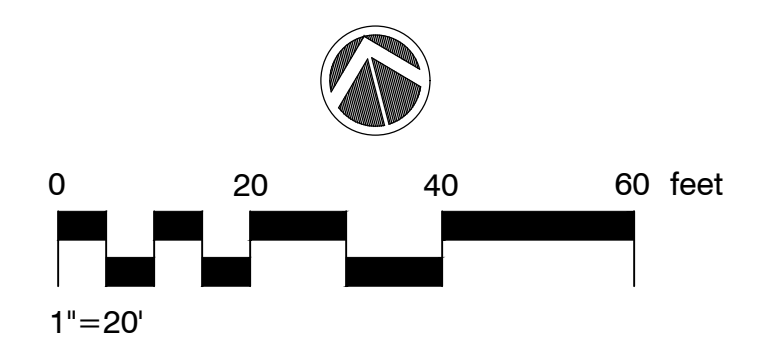




SITE SPECIFIC EROSION CONTROL NOTES

1. PERIMETER CONTROL BMP'S AND STABILIZED CONSTRUCTION ENTRANCES SHALL BE IN PLACE PRIOR TO ANY GROUND DISTURBANCE.
2. BUILDING DEMOLITION SHALL BE COMPLETED WHEN THERE IS NO RAIN EVENTS FORECAST WITHIN THE FOLLOWING 48 HOUR TIME PERIOD.
3. THESE PLANS ARE INTENDED TO REPRESENT DIFFERENT PHASES DURING CONSTRUCTION. THE CONTRACTOR SHALL IMPLEMENT THE BMP'S SHOWN AND/OR ANY OTHER MEASURES NECESSARY DURING CONSTRUCTION TO BE IN COMPLIANCE WITH THE GENERAL PERMIT. IMPLEMENTATION OF THE THE BMP'S SHOWN ON THESE PLANS, DO NOT RELIEVE THE OWNER OR HIS/HER REPRESENTATIVE FROM RESPONSIBILITY OF IMPLEMENTING ALL MEASURES NEEDED TO BE IN COMPLIANCE.
4. THE CONTRACTOR SHALL USE CLASS II BASE FOR THE STABILIZED CONSTRUCTION ROADWAY OR ALTERNATE METHODS THAT ACHIEVE THE DESIRED RESULTS. THIS BMP SHALL BE IMPLEMENTED AS SOON AS PRACTICAL.
5. THE CONTRACTOR MAY UTILIZE RUMBLE PLATES IN LIEU OF RIP RAP AT THE CONSTRUCTION ENTRANCES AS LONG AS THEY ACCOMPLISH THE DESIRED RESULTS.
6. OFFSITE CONSTRUCTION THAT INCLUDES DEMOLITION AND REPLACEMENT OF EXISTING ASPHALT SHALL BE COMPLETED WHEN THERE IS NO FORECAST RAIN EVENTS. AREAS THAT WILL BE IDLE FOR EXTENDED PERIODS OF TIME SHALL BE COVERED WITH TEMPORARY ASPHALT PATCHING. (COLD MIX).
7. GRAVEL BAGS SHOWN IN THE CURB AND GUTTER FLOW LINES SHALL BE ORIENTED TO TEMPORARILY SLOW AND DAM THE FLOWING STORM WATER IN THE GUTTERS TO HELP FILTER OUT ANY SEDIMENTS. THESE GRAVEL BAGS SHALL BE SPACED AT 50' O/C OR CLOSER AS CONDITIONS WARRANT.
8. ANY SEDIMENTS TRACKED OFFSITE SHALL BE CLEANED DAILY BY MEANS OF MOBILE STREET SWEEPERS.
9. ANY GRADED AREAS THAT ARE GOING TO SIT IDLE FORM MORE THAN TWO WEEKS, SHALL HAVE AN APPROPRIATE GROUND COVER BMP APPLIED.
10. THE LOCATIONS SHOWN FOR THE EQUIPMENT AND MATERIAL DELIVERY STORAGE AREAS AND CONCRETE WASTE CLEANOUT MAY BE RELOCATED DURING CONSTRUCTION BY THE QSD AND UPDATED IN THE SWPPP.
11. AREA DRAINS IN LANDSCAPE AREA SHALL TO BE PROTECTED DURING CONSTRUCTION.

SWPPP CONTROL BMP'S			
#	BMP SYMBOL	NAME	LEGEND
1	SE-1	SILT FENCE	—
2	SE-5	STRAW WATTLE	- - -
3	SE-6	GRAVEL BAGS	⊞
4	SE-7	STREET SWEEPING AND VACUUMING	~
5	SE-10	STORM DRAIN INLET PROTECTION	▨
6	TC-1/TC-3	STABILIZED CONSTRUCTION ENTRANCE WITH WHEEL WASH AREA	▨
7	WM-1/WM-2	MATERIAL DELIVERY & STORAGE/ MATERIAL USE	▨
8	WM-3	STOCKPILE MANAGEMENT	▨
9	WM-8	CONCRETE WASTE MANAGEMENT	▨



Seal of the State of California, Department of Public Works, Capital Improvements Division, Contra Loma Estates Park Renovation Project, CE101.

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PUBLIC WORKS DEPARTMENT  
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CONTRA LOMA ESTATES PARK  
RENOVATION PROJECT

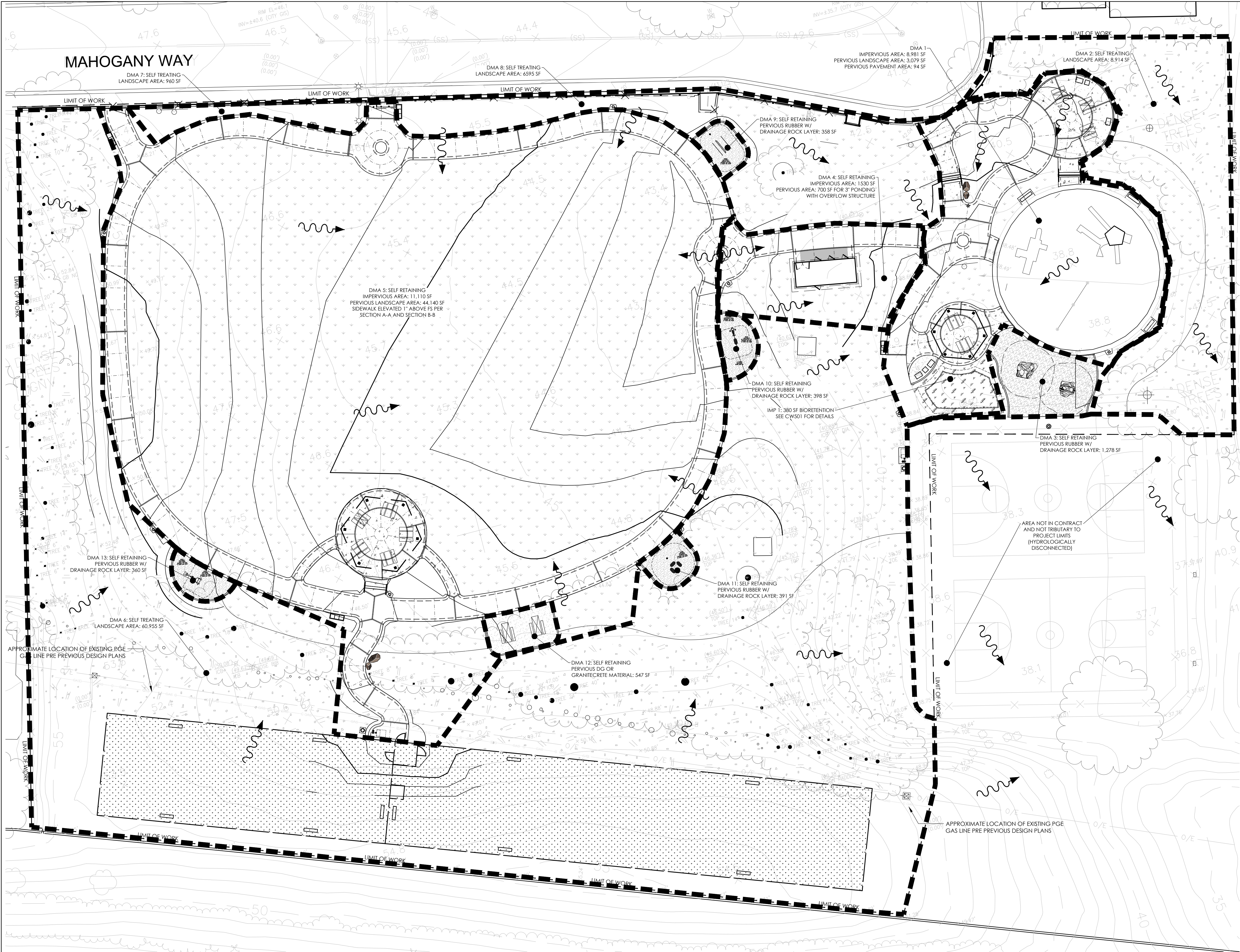
**EROSION CONTROL PLAN  
CE101**

SCALE:  
PUBLIC WORKS  
PROJECT NO.

SHEET 8

OF 40 SHEETS





STORMWATER SUMMARY					
DMA	DMA AREA (SF)	IMPERVIOUS AREA (SF)	PERVIOUS AREA (SF)	REQUIRED IMP TREATMENT AREA (SF)	PROVIDED IMP TREATMENT AREA (SF)
1	12,154	8,981	3,173	377	IMP 1: 380
2	8,914	0	8,914	N/A - SELF TREATING	N/A - SELF TREATING
3	1,278	0	1,278	N/A - SELF TREATING	N/A - SELF TREATING
4	3,536	1,530	700	N/A - SELF TREATING	N/A - SELF TREATING
5	57,747	11,110	44,140	N/A - SELF TREATING	N/A - SELF TREATING
6	60,955	0	60,955	N/A - SELF TREATING	N/A - SELF TREATING
7	960	0	960	N/A - SELF TREATING	N/A - SELF TREATING
8	6,595	0	6,595	N/A - SELF TREATING	N/A - SELF TREATING
9	358	0	358	N/A - SELF TREATING	N/A - SELF TREATING
10	398	0	398	N/A - SELF TREATING	N/A - SELF TREATING
11	391	0	391	N/A - SELF TREATING	N/A - SELF TREATING
12	547	0	547	N/A - SELF TREATING	N/A - SELF TREATING
13	360	0	360	N/A - SELF TREATING	N/A - SELF TREATING

SYMBOL	DESCRIPTION
---	PROJECT LIMIT
---	DMA BOUNDARY
~>	DIRECTION OF FLOW

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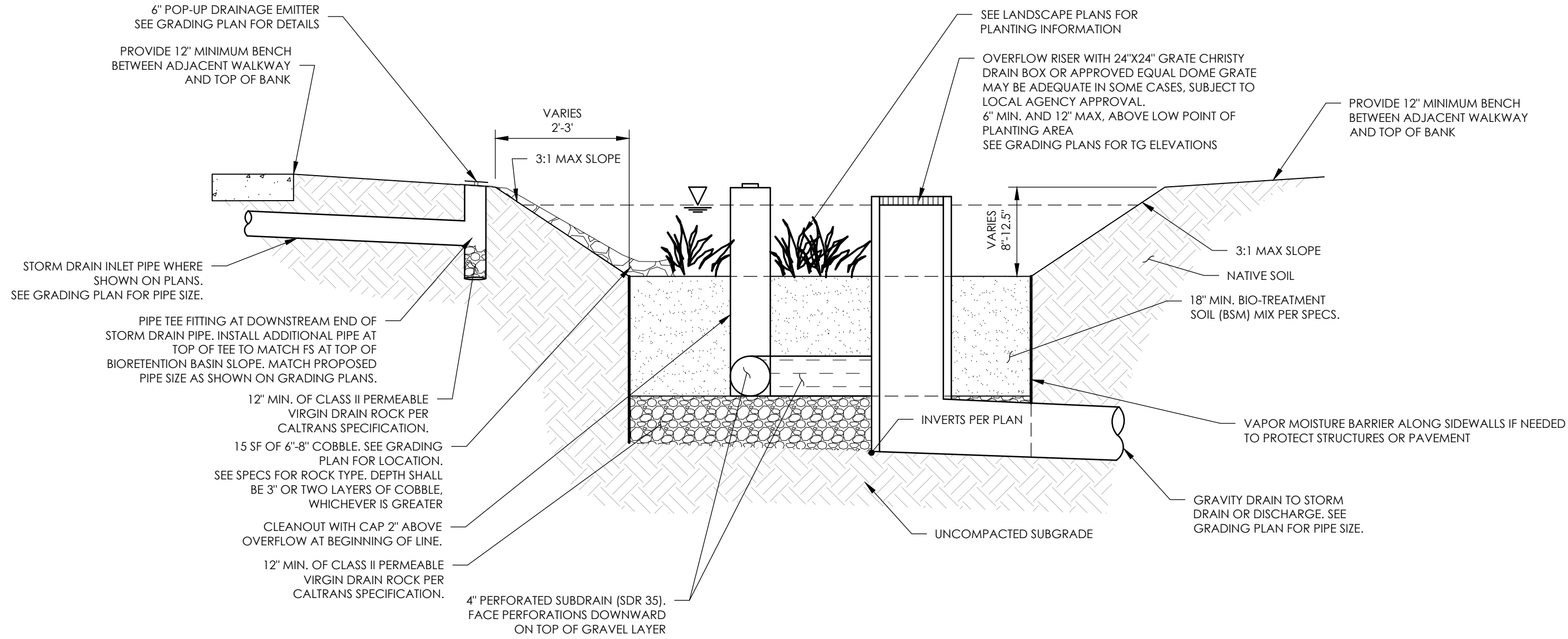
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CONTRA LOMA ESTATES PARK  
RENOVATION PROJECT  
**STORMWATER CONTROL PLAN  
CW101**

SCALE:  
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SHEET 9  
OF 40 SHEETS

FILE LOCATION/NAME:





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CONTRA LOMA ESTATES PARK RENOVATION PROJECT		SHEET 10
<b>STORMWATER CONTROL DETAILS CW501</b>		OF 40 SHEETS

GRADING NOTES

1. ALL GRADING SHALL BE IN CONFORMANCE WITH THE STANDARDS AND REQUIREMENTS PERTAINING THERETO, THIS PLAN, AND THE RECOMMENDATIONS AND REQUIREMENTS OF THE SUPERVISING SOILS ENGINEER.
2. ALL EXPORT MATERIAL SHALL BE DISPOSED OF IN AN ACCEPTABLE LOCATION UNLESS OTHERWISE APPROVED BY THE COUNTY.
3. DUST CONTROL MEASURES SHALL BE IMPLEMENTED IN ACCORDANCE WITH THE COUNTY APCD REQUIREMENTS.
4. ALL GRADING SHALL BE DONE IN ACCORDANCE WITH THE RECOMMENDATIONS OF THE SOILS ENGINEERING REPORT PREPARED BY: BSK ASSOCIATES TITLED "GEOTECHNICAL INVESTIGATION REPORT CONTRA LOMA ESTATES PARK RENOVATION", DATED JULY 8, 2021
5. CONSTRUCTION CONTRACTOR SHALL ASSUME SOLE AND COMPLETE RESPONSIBILITY FOR PROTECTION OF PUBLIC AND PRIVATE PROPERTY ADJACENT TO THE JOB SITE AND THAT HE/SHE SHALL AT HIS/HER EXPENSE, REPAIR OR REPLACE TO ORIGINAL CONDITION ALL EXISTING IMPROVEMENTS WITHIN OR ADJACENT TO THE JOB SITE WHICH ARE DESIGNATED FOR REMOVAL AND WHICH ARE DAMAGED OR REMOVED AS A RESULT OF HIS/HER OPERATIONS.
6. NO CUT OR FILL SLOPES WILL BE CONSTRUCTED STEEPER THAN TWO HORIZONTAL TO ONE VERTICAL (2:1). UNLESS OTHERWISE APPROVED BY THE SOILS ENGINEER.
7. MINIMUM DRAINAGE GRADIENT OF 5% IS REQUIRED FOR A MINIMUM OF 10' AWAY FROM THE BUILDING PAD/FOUNDATION IN ACCORDANCE WITH THE BUILDING CODES FOR LANDSCAPED AREAS ADJACENT TO BUILDINGS (SEE CBC SECTION 1804.3)
8. SOILS TESTS SHALL BE DONE IN ACCORDANCE WITH THE SOILS ENGINEER REPORT AND RECCOMENDATIONS. ALL TESTS MUST BE MADE WITHIN 15 DAYS PRIOR TO PLACING THE MATERIAL. THE TEST RESULTS SHALL CLEARLY INDICATE THE LOCATION AND SOURCE OF THE MATERIAL.
9. COMPACTION TESTS SHALL BE MADE ON SUBGRADE MATERIAL AND MATERIAL AS SPECIFIED BY THE ENGINEER. SAID TESTS SHALL BE MADE PRIOR TO THE PLACING OF THE NEXT MATERIAL. GRADING AND COMPACTIONS REQUIREMENTS SHOULD BE AS PER THE RECOMMENDATIONS OF THE SOILS ENGINEER REPORT.
10. ALL SOIL COMPACTION ACTIVITY SHALL BE IN ACCORDANCE WITH SECTION 7 OF THE SOILS ENGINEERING REPORT PREPARED BY BSK ASSOCIATES. DATED JULY 8, 2021.
11. FINAL REPORTS SHALL BE REQUIRED IN ACCORDANCE WITH CHAPTER 18 OF THE CBC.
12. DURING CONSTRUCTION/GROUND DISTURBING ACTIVITIES, THE APPLICANT SHALL IMPLEMENT THE FOLLOWING PARTICULATE (DUST) CONTROL MEASURES. THESE MEASURES SHALL BE SHOWN ON THE GRADING AND BUILDING PLANS. IN ADDITION, THE CONTRACTOR OR BUILDER SHALL DESIGNATE A PERSON OR PERSONS TO MONITOR THE DUST CONTROL PROGRAM AND TO ORDER INCREASED WATERING AS NECESSARY. TO PREVENT TRANSPORT OF DUST OFF SITE. THEIR DUTIES SHALL INCLUDE HOLIDAY AND WEEKEND PERIODS WHEN WORK MAY NOT BE IN PROGRESS. THE NAME AND TELEPHONE NUMBER OF SUCH PERSONS SHALL BE PROVIDED TO THE APCD PRIOR TO COMMENCEMENT OF CONSTRUCTION.
13. USE OF WATER TRUCKS OR SPRINKLER SYSTEMS IN SUFFICIENT QUANTITIES TO PREVENT AIRBORNE DUST FROM LEAVING THE SITE. INCREASED WATERING FREQUENCY WOULD BE REQUIRED WHENEVER WIND SPEEDS EXCEED 15 MPH. RECLAIMED (NON POTABLE) WATER SHOULD BE USED WHENEVER POSSIBLE.
14. ALL DISTURBED SURFACES SLOPED FOUR HORIZONTAL TO ONE VERTICAL (4:1) AND GREATER AND AREAS USED TO CONVEY CONCENTRATED DRAINAGE SHALL BE PREPARED AND MAINTAINED TO CONTROL EROSION BY EFFECTIVE PLANTING TO BE COMPLETED NO LATER THAN 30 DAYS PRIOR TO A REQUEST FOR FINAL INSPECTION APPROVALS.
15. ALL ACTIVITIES ASSOCIATED WITH CONSTRUCTION AND OPERATION SHALL COMPLY AT ALL TIMES WITH ALL CURRENT APCD RULES AND REGULATIONS AS APPLICABLE, INCLUDING BUT NOT LIMITED TO PM-10, NOx EMISSIONS, BEST AVAILABLE CONTROL TECHNOLOGIES, CONSTRUCTION ACTIVITY MANAGEMENT PLANS, AND PHASING TECHNIQUES.
16. A FIRE DEPARTMENT PERMIT IS REQUIRED IF FUEL IS STORED ON-SITE.
17. TRACKING ONTO THE PUBLIC RIGHT-OF-WAY SHALL BE MINIMIZED. THE ADJOINING STREET AND SIDEWALK SHALL BE CLEANED BY SWEEPING TO REMOVE DIRT, DUST, MUD, AND CONSTRUCTION DEBRIS AT THE END OF EACH WORKING DAY.
18. CONTRACTOR SHALL USE CAUTION WHEN GRADING OR TRENCHING UNDER EXISTING TREE DRIPLINES. HAND DIG ANY GRADING OR TRENCHES THAT OCCUR WITHIN 6' OF THE TREE TRUNKS.

CONTRACTOR IS RESPONSIBLE FOR ADJUSTMENTS TO SLOPE HINGE POINTS IN ORDER TO PROVIDE GRADED PAD AREA ADJACENT TO PATHS WALKWAYS, AND ROADS FOR LOT UTILITY BOXES, TRANSFORMERS, AND ABOVE GROUND UTILITY INFRASTRUCTURE.



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PUBLIC WORKS DEPARTMENT CAPITAL IMPROVEMENTS DIVISION
CONTRA LOMA ESTATES PARK RENOVATION PROJECT <b>GRADING AND DRAINAGE NOTES CG001</b>

SCALE: PUBLIC WORKS PROJECT NO.
SHEET 11
OF 40 SHEETS





- LEGEND
- LIMIT OF GRADING

---

PROPOSED CONTOURS

---

EXISTING CONTOURS

---

EXISTING WATER

---

EXISTING SANITARY SEWER

---

EXISTING STORM DRAIN

---

EXISTING GAS

---

PROPOSED STORM DRAIN

---

GRADE BREAK

---

BIORETENTION BASIN BOTTOM

GRADING NOTES

1. THE CONTRACTOR SHALL POT-HOLE TO IDENTIFY UTILITY TYPE DEPTH AND DIMENSIONS PRIOR TO CONSTRUCTION. CONTRACTOR SHALL NOTIFY UNDERGROUND SERVICE ALERT PRIOR TO POT-HOLING. CONTRACTOR SHALL IDENTIFY WHERE EXISTING UTILITY CONFLICTS MAY INTERFERE WITH THE PROPOSED IMPROVEMENTS AND INFORM THE CITY AND ENGINEER. CONTRACTOR SHALL IDENTIFY ALL UNDERGROUND CONFLICTS PRIOR TO THE START OF CONSTRUCTION, AND SHALL NOTIFY THE ENGINEER PRIOR TO START OF UNDERGROUND UTILITY AND STORM DRAIN INSTALLATION. POT-HOLE RESTORATION SHALL BE IN LIKE KIND TO THE SURFACE THAT PREVAILED PRIOR TO THE POT-HOLING.

2. AN ENGINEERING PERMIT WILL BE REQUIRED FOR ANY WORK IN THE PUBLIC RIGHT-OF-WAY, INCLUDING BUT NOT LIMITED TO CONSTRUCTION STAGING, CONSTRUCTION PARKING, SIDEWALK, SHORING, DRAINAGE, OR SEWER WORK. THE ENGINEERING PERMIT CAN BE ISSUED AFTER THE BUILDING PERMIT IS APPROVED OR ISSUED. APPROVAL OF THIS BUILDING PERMIT DOES NOT AUTHORIZE WORK IN THE RIGHT-OF-WAY.

3. SLOPES SHALL BE SUFFICIENT TO PROMOTE POSITIVE DRAINAGE, UP TO A MAXIMUM OF 4.8% LONGITUDINALLY ALONG THE PATH OF TRAVEL AND A MINIMUM OF 0.5%. MAXIMUM CROSS SLOPES ARE TO BE 1.5% WHEREVER FEASIBLE. THE SITE SHOULD BE GRADED SO AS TO CARRY SURFACE WATER AWAY FROM STRUCTURES AT A MINIMUM OF 5 PERCENT IN LANDSCAPED AREAS TO A MINIMUM OF 10 FEET LATERALLY FROM A STRUCTURE'S PERIMETER FOUNDATION.

4. THE SOILS REPORT, IN ITS ENTIRETY, SHALL BE CONSIDERED A PART OF THESE PLANS.

- KEYNOTE SCHEDULE
- 1

INSTALL 8" DRAIN BASH WITH STANDARD GRATE (NYLOPLAST OR CITY-APPROVED EQUAL).
- 2

INSTALL 8" HDPE STORM DRAIN PIPE, SLOPE TO OUTLET AT S=0.0050 MINIMUM.
- 3

INSTALL 6" POP-UP DRAINAGE EMITTER AT FS AND CORRUGATED PIPE ADAPTER (NDS OR CITY-APPROVED EQUAL).
- 4

INSTALL CATCH BASIN (24" x 24" GRATED CHRISTY BOX OR CITY-APPROVED EQUAL).
- 5

ADJUST EX CATCH BASIN TO FS. REPLACE GRATE WITH SOLID, LOCKABLE COVER.

FILE LOCATION/NAME:

LANDSCAPE ARCHITECT  
JAMES CHAYEL, No. 0040  
Signature  
2/28/23  
Noted Date  
Date

STATE OF CALIFORNIA

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PUBLIC WORKS DEPARTMENT  
CAPITAL IMPROVEMENTS DIVISION

CONTRA LOMA ESTATES PARK  
RENOVATION PROJECT

GRADING AND DRAINAGE PLAN  
CG101

SCALE:  
PUBLIC WORKS  
PROJECT NO.

SHEET 12

OF 40 SHEETS



UTILITY NOTES

1. UTILITIES SHOWN ARE ACCURATE TO THE EXTENT OF AVAILABLE RECORDS AND KNOWLEDGE. THE CONTRACTOR HAS THE RESPONSIBILITY TO VERIFY THE LOCATION OF EXISTING UNDERGROUND UTILITIES AND TO NOTIFY UTILITY COMPANIES WHEN WORKING IN THEIR PROXIMITY. PRIOR TO COMMENCING CONSTRUCTION, THE CONTRACTOR SHALL POTHOLE TO VERIFY ALL EXISTING UTILITY POINTS OF CONNECTION AND ELEVATIONS. THE CONTRACTOR SHALL NOTIFY THE ENGINEER OF RECORD IF ANY DISCREPANCIES EXIST BETWEEN THE PLANS AND FIELD CONDITIONS PERTAINING TO MATERIALS, ELEVATIONS, LOCATIONS, ETC., PRIOR TO CONTINUING WORK.
2. THE DRY UTILITY SERVICE LINES AND BOXES SHOWN IN THESE PLANS ARE SCHEMATIC AND BASED ON TOPOGRAPHIC SURVEY INFORMATION. THE CONTRACTOR IS REQUIRED TO OBTAIN THE FINAL PLANS FROM THE UTILITY PROVIDER AND VERIFY THE FINAL ALIGNMENT PER THEIR APPROVED PLANS PRIOR TO CONSTRUCTION. CONTRACTOR IS RESPONSIBLE FOR ROUTING THE SERVICE WIRE THROUGH THE CONDUIT RUNS TO PROVIDE SERVICE TO THE SHOWN EQUIPMENT.





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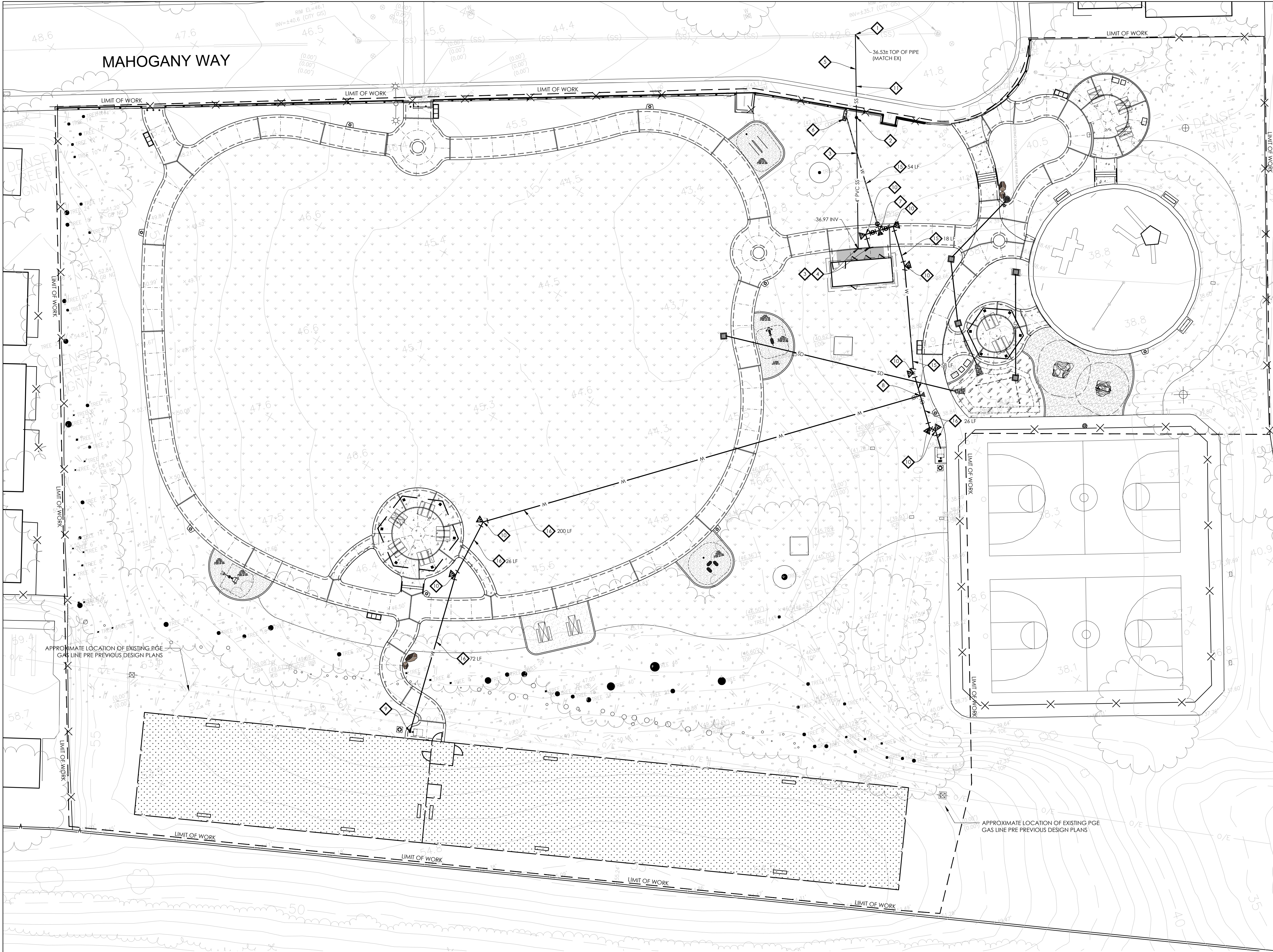
CONTRA LOMA ESTATES PARK  
RENOVATION PROJECT  
**UTILITY NOTE SHEET  
CU001**

SCALE:  
PUBLIC WORKS  
PROJECT NO.

SHEET 13

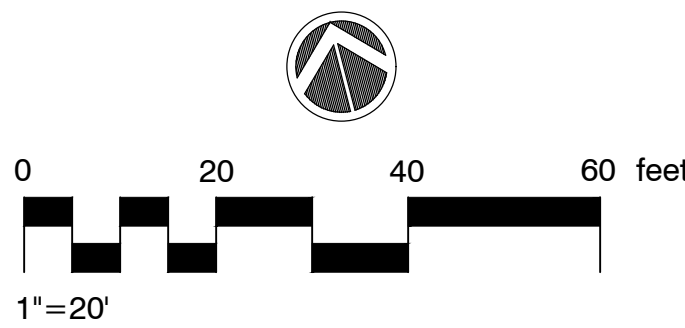
OF 40 SHEETS





- IMPROVEMENT NOTES
- 1. CONNECT TO EXISTING SEWER MAIN PER CITY CONSTRUCTION DETAIL SS-05
  - 2. SEWER CLEANOUT PER CITY CONSTRUCTION DETAIL SS-04 AND ST-19
  - 3. MAINTAIN 5' (MIN) HORIZONTAL CLEARANCE AND 1' (MIN) VERTICAL CLEARANCE BETWEEN SEWER AND WATER
  - 4. STUB SEWER AND WATER LINES 5' FROM BUILDING FOR FUTURE CONNECTION TO RESTROOM
  - 5. UTILITY TRENCH PER CITY CONSTRUCTION DETAIL ST-14
  - 6. REPLACE EXISTING 2" WATER SERVICE BACKFLOW PREVENTER PER CITY CONSTRUCTION DETAIL W-12. CONNECT TO EXISTING AND PROPOSED WATER LINES SHOWN ON PLANS
  - 7. INSTALL 2" X 2" X 2' TEE WITH THRUST BLOCK AND VALVE PER CITY CONSTRUCTION DETAILS W-07 AND W-12. VALVE LOCATION AS SHOWN.
  - 8. INSTALL 2" X 2" X 8' TEE WITH THRUST BLOCK AND VALVE PER CITY CONSTRUCTION DETAILS W-07 AND W-12. VALVE LOCATION AS SHOWN.
  - 9. CONNECT WATER LINE TO PROPOSED DRINKING FOUNTAIN. SEE LC SHEETS FOR DETAILS
  - 10. INSTALL CORRESPONDING SIZED ELBOW WITH THRUST BLOCK AND VALVES PER CITY CONSTRUCTION DETAIL W-12
  - 11. INSTALL 4" PVC SEWER PIPE PER CENTRAL SANITARY DISTRICT STANDARDS
  - 12. INSTALL OVERFLOW RISER. SEE DETAIL A ON CWS01. CONNECT EXISTING 15" RCP TO NEW OVERFLOW RISER. MATCH EXIST INVERT ELEVATION
  - 13. BIORETENTION BASIN SUBDRAIN WITH CLEANOUT. SEE DETAIL A ON CWS01
  - 14. NOT USED
  - 15. INSTALL NEW 2" TYPE K COPPER PIPE, UTILITY TRENCH AND BACKFILL PER CITY CONSTRUCTION DETAIL ST-14 (MODIFIED FOR FINISH SURFACE TYPE PER LC AND LP SHEETS)
  - 16. INSTALL NEW 2" TYPE K COPPER PIPE, UTILITY TRENCH AND BACKFILL PER CITY CONSTRUCTION DETAIL ST-14 (MODIFIED FOR FINISH SURFACE TYPE PER LC AND LP SHEETS)
  - 17. INSTALL GRATED DRAIN BASIN (NON-TRAFFIC INSTALLATION) PER DETAIL ON SHEET LC501
  - 18. PROTECT IN PLACE EXISTING STORM DRAIN

- NOTES
1. SEE SHEET CG SERIES SHEETS FOR TOP OF GRATE ELEVATIONS, RIM ELEVATIONS AND STRUCTURE (INLETS, SD CLEANOUTS, CATCH BASINS ETC.) CONSTRUCTION INFORMATION.
  2. SEE SHEET LC SERIES FOR SURFACE IMPROVEMENTS.
  3. CONTRACTOR SHALL PROVIDE ALL FITTINGS AND APPURTENANCES REQUIRED TO INSTALL AND CONSTRUCT ANY/ALL UTILITIES SHOWN ON THESE IMPROVEMENT PLANS.
  4. THE SOILS REPORT, IN ITS ENTIRETY, SHALL BE CONSIDERED A PART OF THESE PLANS.



FILE LOCATION/NAME:



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CONTRA LOMA ESTATES PARK  
RENOVATION PROJECT

**UTILITY PLAN  
CU101**

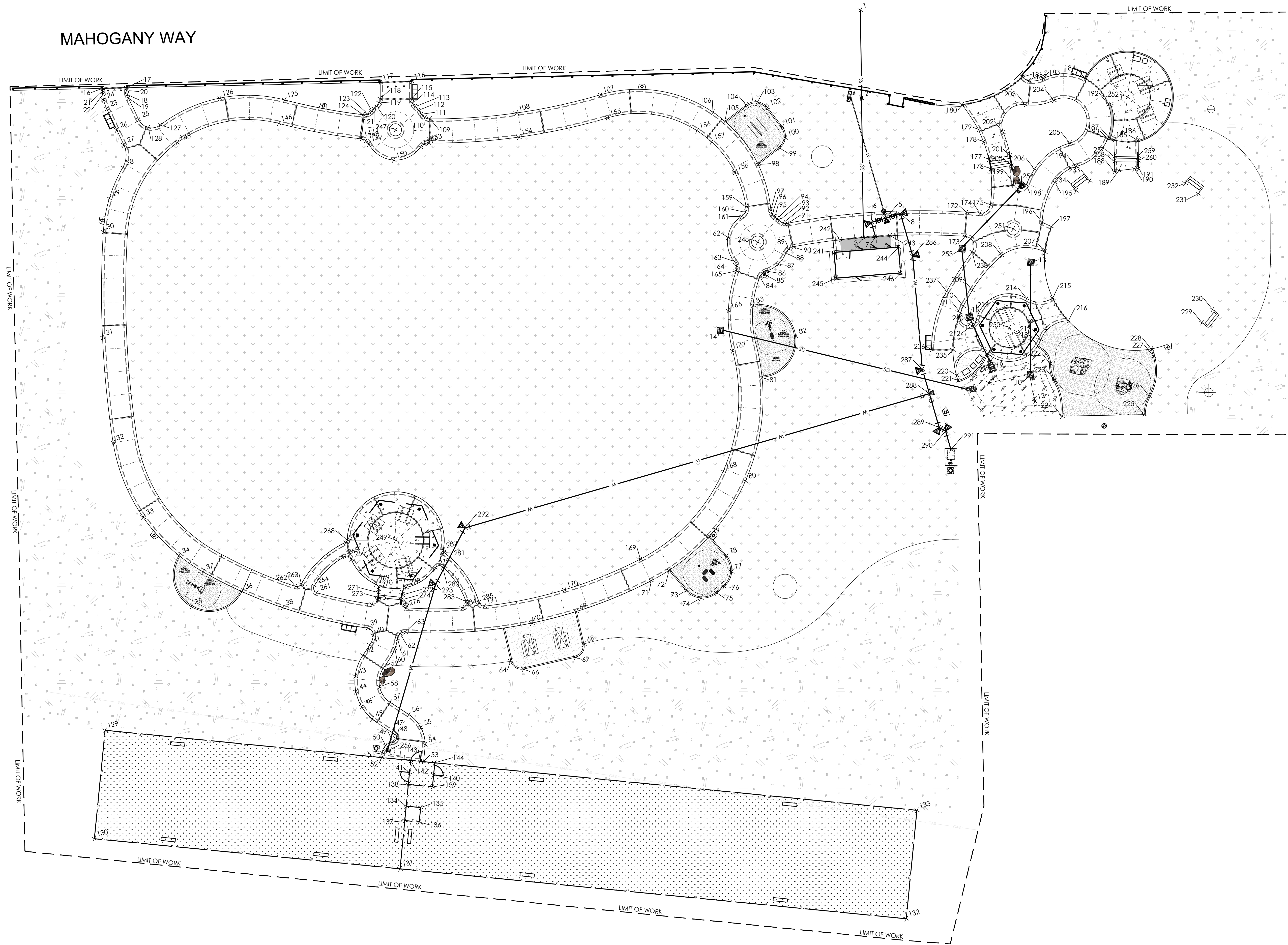
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SHEET 14

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CONTRA LOMA ESTATES PARK  
RENOVATION PROJECT

**HORIZONTAL CONTROL PLAN  
CH101**

SCALE:  
PUBLIC WORKS  
PROJECT NO.

SHEET 15

OF 40 SHEETS



Point Table			
Point #	Raw Description	Northing	Easting
1	SS	2189973.5634	6179998.2321
2	SS	2189938.2023	6179989.6748
3	SS	2189882.1423	6179976.1083
4	SW	2189939.4683	6179984.5638
5	W	2189887.7086	6179987.0776
6	W	2189887.5177	6179980.8570
7	W	2189881.2963	6179981.0479
8	W	2189887.9027	6179993.4129
10	SD	2189810.2357	6180028.8960
11	SD	2189811.2708	6180011.4280
12	SD	2189799.0665	6180027.9534
13	SD	2189855.1421	6180040.6346
14	SD	2189859.7664	6179909.4187
15	SD	2189839.6351	6180010.5277
16	SW	2190019.9543	6179686.8830
17	SW	2190017.7118	6179696.6283
18	SW	2190014.9545	6179696.1726
19	SW	2190013.2912	6179696.3185
20	SW	2190016.6118	6179696.3752
21	SW	2190018.8542	6179686.6298

Point Table			
Point #	Raw Description	Northing	Easting
22	SW	2190017.4095	6179686.3590
23	SW	2190011.3829	6179686.5022
24	SW	2190015.1253	6179686.1741
25	SW	2190003.7256	6179698.1781
26	SW	2190001.8172	6179688.3619
27	SW	2189995.1136	6179689.6651
28	SW	2189986.2143	6179686.9993
29	SW	2189975.1857	6179678.3942
30	SW	2189962.4643	6179672.5767
31	SW	2189920.2354	6179661.4274
32	SW	2189877.0513	6179654.8904
33	SW	2189844.2193	6179659.2326
34	MOW BAND	2189825.1286	6179669.6515
35	MOW BAND	2189803.3538	6179669.4080
36	MOW BAND	2189804.2816	6179691.1643
37	SW	2189816.1299	6179677.6295
38	SW	2189793.6942	6179705.7894
39	SW	2189776.8181	6179737.5941
40	SW	2189773.3250	6179739.2171
41	SW	2189769.8613	6179736.8782

Point Table			
Point #	Raw Description	Northing	Easting
42	SW	2189766.4053	6179733.0580
43	SW	2189758.8185	6179727.8337
44	SW	2189752.5263	6179726.4981
45	SW	2189739.9406	6179730.2067
46	SW	2189745.9207	6179727.2909
47	SW	2189731.5745	6179737.6548
48	SW	2189729.5871	6179737.9153
49	SW	2189728.6587	6179736.1389
50	SW	2189727.9707	6179732.8995
51	SW	2189725.4091	6179730.8007
52	SW	2189723.5296	6179730.1170
53	SW	2189717.5960	6179746.4273
54	SW	2189724.1749	6179748.8213
55	SW	2189731.5099	6179748.8275
56	SW	2189737.9724	6179745.3560
57	SW	2189744.8306	6179739.0923
58	SW	2189752.0500	6179736.4867
59	SW	2189758.9895	6179739.7667
60	SW	2189765.8013	6179746.5497
61	SW	2189769.5271	6179748.6070

Point Table			
Point #	Raw Description	Northing	Easting
62	SW	2189771.1968	6179750.1326
63	SW	2189771.3346	6179752.3902
64	MOW BAND	2189749.0356	6179791.6404
66	MOW BAND	2189744.4170	6179796.0185
67	MOW BAND	2189743.8288	6179818.0106
68	MOW BAND	2189748.2069	6179822.6293
69	MOW BAND	2189762.0455	6179822.9994
70	SW	2189761.9692	6179803.9664
71	SW	2189766.6810	6179856.1739
72	MOW BAND	2189768.9544	6179864.2552
73	MOW BAND	2189759.2241	6179868.9964
74	MOW BAND	2189754.6578	6179874.1537
75	MOW BAND	2189755.0758	6179881.0293
76	MOW BAND	2189756.8279	6179884.6251
77	MOW BAND	2189761.9852	6179889.1914
78	MOW BAND	2189768.8608	6179888.7735
79	MOW BAND	2189778.5910	6179884.0323
80	SW	2189796.8957	6179903.9580
81	MOW BAND	2189836.7834	6179921.2781
82	MOW BAND	2189849.6473	6179938.9439

Point Table			
Point #	Raw Description	Northing	Easting
83	MOW BAND	2189866.4921	6179925.0220
84	SW	2189877.1344	6179930.6884
85	SW	2189878.3273	6179932.0521
86	SW	2189878.7962	6179933.8021
87	SW	2189880.2733	6179939.2930
88	SW	2189884.0298	6179943.5614
89	SW	2189885.3198	6179945.1013
90	SW	2189885.6986	6179947.0740
91	SW	2189895.7023	6179947.3331
92	SW	2189896.2834	6179945.4949
93	SW	2189897.6568	6179944.1420
94	SW	2189898.5942	6179943.5288
95	SW	2189899.4729	6179942.8342
96	SW	2189900.9938	6179942.0114
97	SW	2189902.7199	6179941.9074
98	MOW BAND	2189922.2666	6179941.4976
99	MOW BAND	2189926.6709	6179951.7528
100	MOW BAND	2189930.0969	6179955.0912
101	MOW BAND	2189934.8800	6179955.0292
102	MOW BAND	2189944.0685	6179951.0831

Point Table			
Point #	Raw Description	Northing	Easting
103	MOW BAND	2189947.4069	6179947.6571
104	MOW BAND	2189947.3449	6179942.8740
105	MOW BAND	2189942.9407	6179932.6188
106	SW	2189947.8059	6179928.7799
107	SW	2189966.3237	6179885.6270
108	SW	2189967.6536	6179849.9400
109	SW	2189974.1573	6179814.8253
110	SW	2189975.1689	6179812.9826
111	SW	2189976.8956	6179811.9296
112	SW	2189978.7929	6179811.1856
113	SW	2189980.5442	6179810.1432
114	SW	2189982.1320	6179809.4696
115	SW	2189983.8557	6179809.5271
116	SW	2189991.0376	6179811.3660
117	SW	2189993.8480	6179798.6711
118	SW	2189987.3224	6179797.0002
119	SW	2189985.7463	6179796.1918
120	SW	2189984.6738	6179794.7819
121	SW	2189984.0170	6179793.5312
122	SW	2189983.2232	6179792.3626

Point Table			
Point #	Raw Description	Northing	Easting
123	SW	2189982.4401	6179790.4979
124	SW	2189982.6693	6179788.4885
125	SW	2189996.5915	6179758.6367
126	SW	2190003.9593	6179732.8318
127	SW	2189999.3407	6179706.3961
128	SW	2189999.5770	6179701.2433
129	FENCE	2189762.7986	6179622.1743
130	FENCE	2189720.5100	6179606.7900
131	FENCE	2189677.1380	6179726.0112
132	SW	2189605.2984	6179923.4843
133	SW	2189647.5869	6179



REFERENCE NOTES SCHEDULE

SYMBOL	32 EXTERIOR IMPROVEMENTS DESCRIPTION
32-01	TABLE TYPE 1 - ADA
32-02	TABLE TYPE 2
32-03	TABLE TYPE 3 - CONCRETE
32-04	BENCH SEAT
32-05	BBQ GRILL
32-06	CLIMBING WALL TYPE 1 - THE POINTE
32-07	CLIMBING WALL TYPE 2 - THE PINNACLE
32-08	BOLLARD REMOVABLE
32-09	BOLLARD FIXED
32-10	TRASH RECEPTACLE
32-11	HOT COAL RECEPTACLE

NOTES

- A. REFER TO SPECIFICATIONS FOR EQUIPMENT AND FURNISHINGS INFORMATION.
- B. NOT ALL JOINT LAYOUTS ARE DIMENSIONED. WHERE TYPICAL DIMENSIONS ARE NOT PROVIDED, JOINTS SHOULD BE GENERALLY INSTALLED IN THE LOCATIONS SHOWN ON THE DRAWINGS IN ORDER TO MEET THE INTENT OF THE DESIGN. JOINT LAYOUT SHALL BE APPROVED BY THE DISTRICT PRIOR TO POURING CONCRETE.





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CONTRA LOMA ESTATES PARK  
RENOVATION PROJECT

**LANDSCAPE CONSTRUCTION NOTES**  
**LC001**

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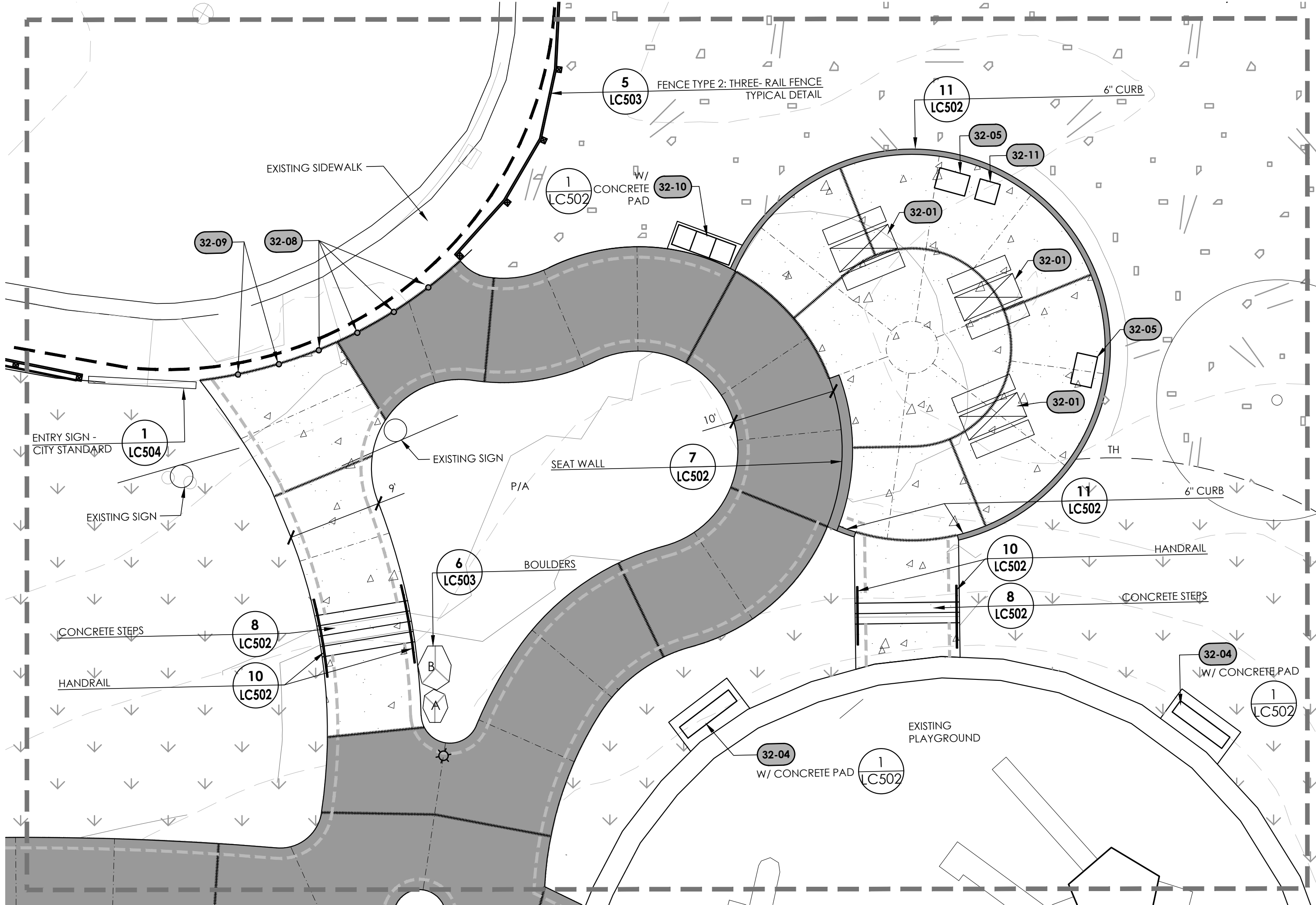
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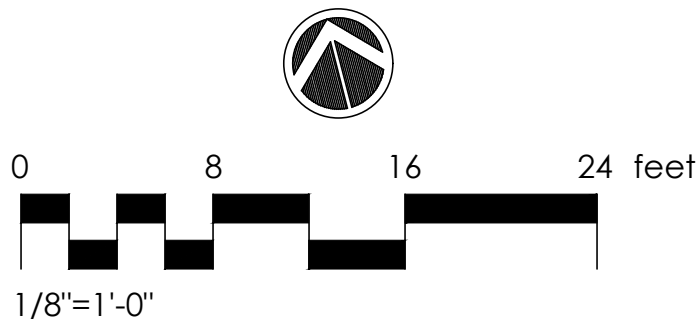


MATERIALS LEGEND

SYMBOL	TYPE	DESCRIPTION	DETAIL(S)
	CONCRETE PEDESTRIAN	SEE DETAILS	
	CONCRETE VEHICULAR	SEE DETAILS	
	TURF	FESCUE BLEND	
	BIORETENTION AREAS	SEE CIVIL PLANS	
	PROTECTIVE RUBBER SURFACING	SEE DETAIL	
	MULCH	3\" - SEE SPECIFICATIONS (SEE PLANTING PLAN FOR PLANTING AREAS)	
	GRAVEL	SEE SPECIFICATIONS	
	STABILIZED DECOMPOSED GRANITE	SEE DETAIL	
	PLANTING AREA		
	FENCE TYPE 1	CHAIN LINK FENCE - LOW	
	FENCE TYPE 2	THREE-RAIL FENCE	
	EXISTING TREE TO REMAIN		
	POLE LIGHT	SEE ELECTRICAL PLANS / DETAILS	
	CONTRACTION JOINT	SEE DETAILS	
	EXPANSION JOINT	SEE DETAILS	
	TIMBER HEADER	SEE DETAILS	
	THICKENED CONCRETE EDGE	SEE DETAILS	

NOTES

1. SEE SHEET G001 FOR SYMBOL LEGEND.
2. SEE SHEET LC001 FOR REFERENCE NOTES.
3. SEE CH SERIES SHEETS FOR HORIZONTAL CONTROL POINTS.
4. SEE CG SERIES SHEETS FOR GRADING.



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INSPECTED BY: \_\_\_\_\_

AS BUILT REVISIONS: \_\_\_\_\_

DATE: \_\_\_\_\_

BY: \_\_\_\_\_

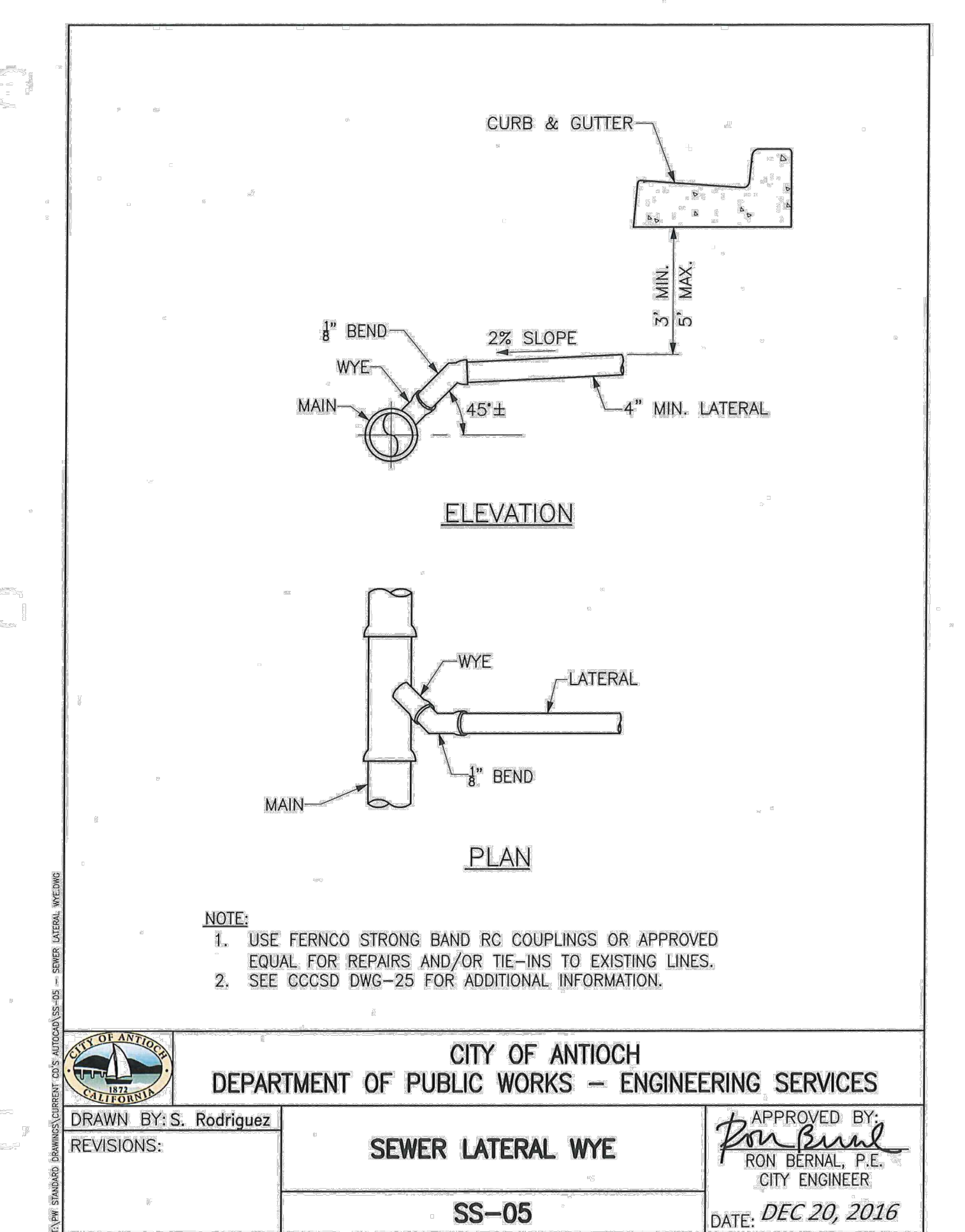
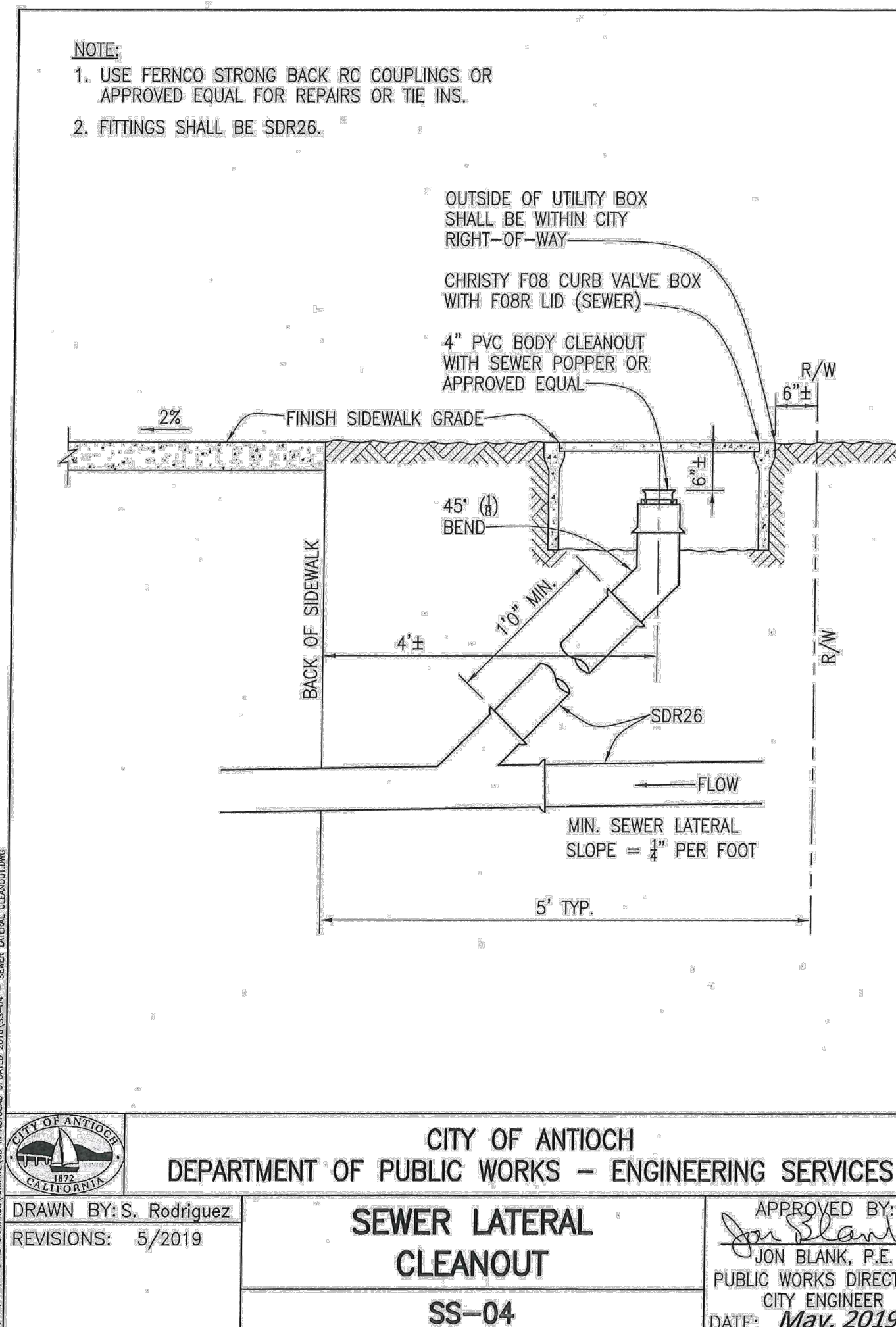
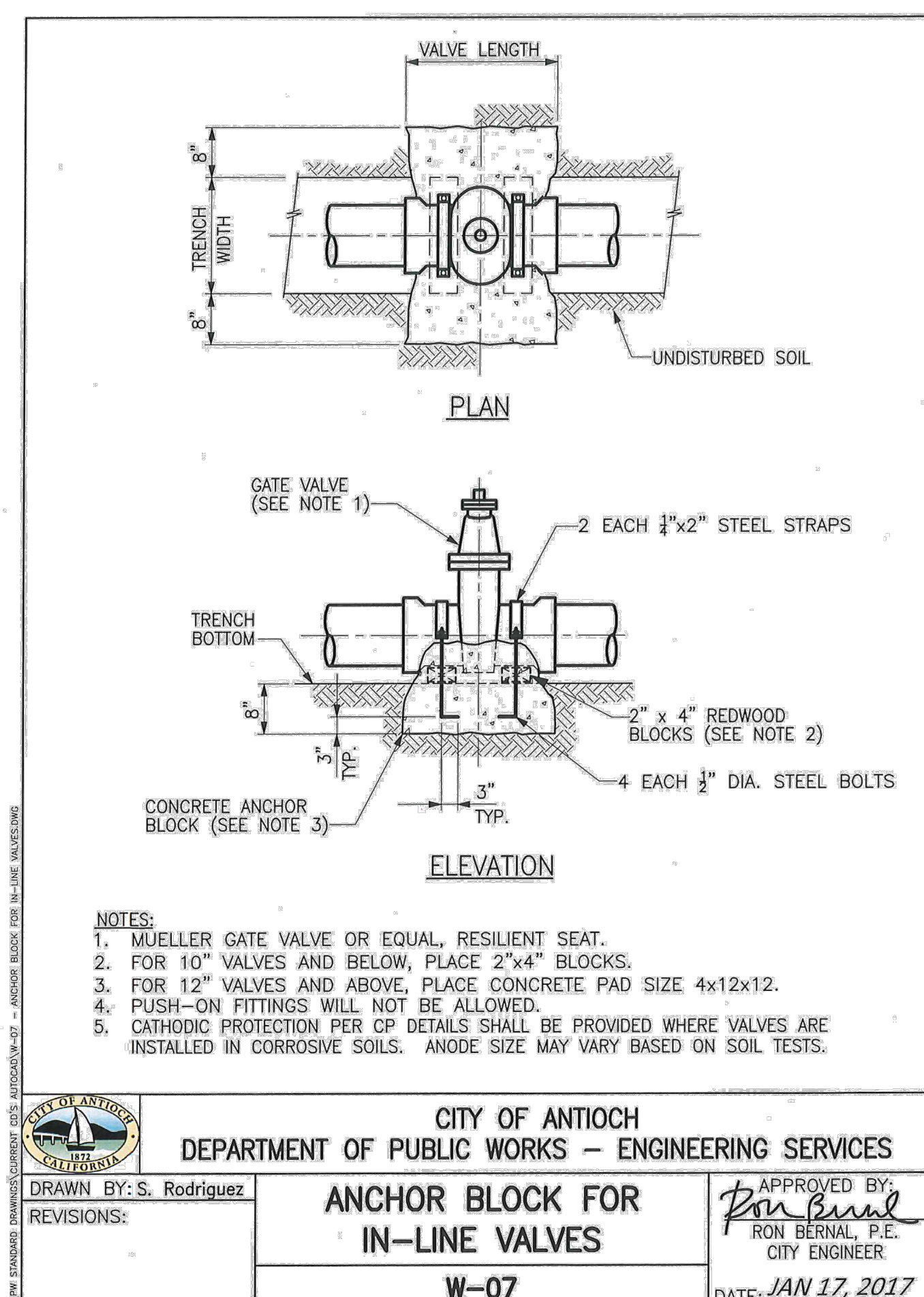
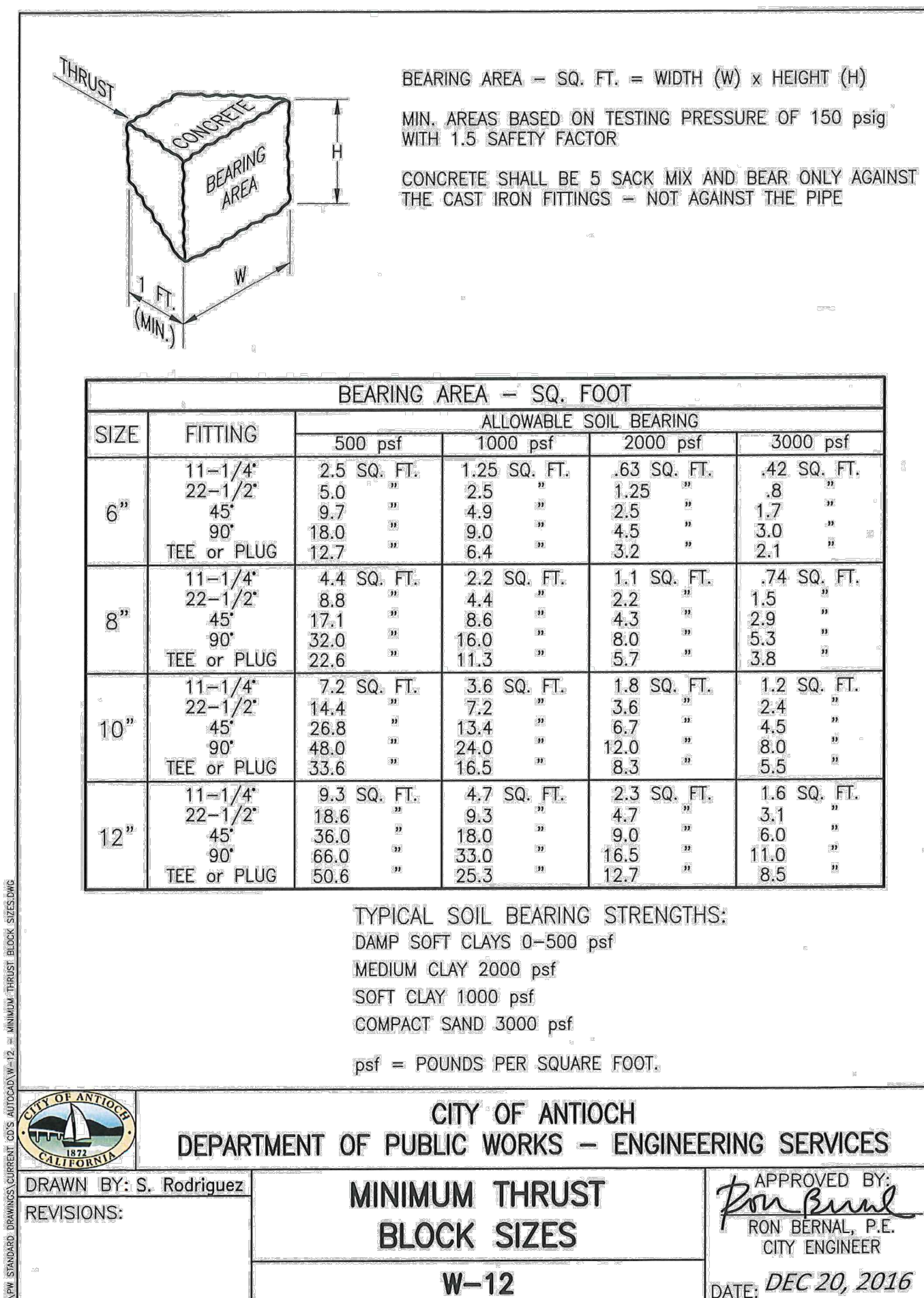
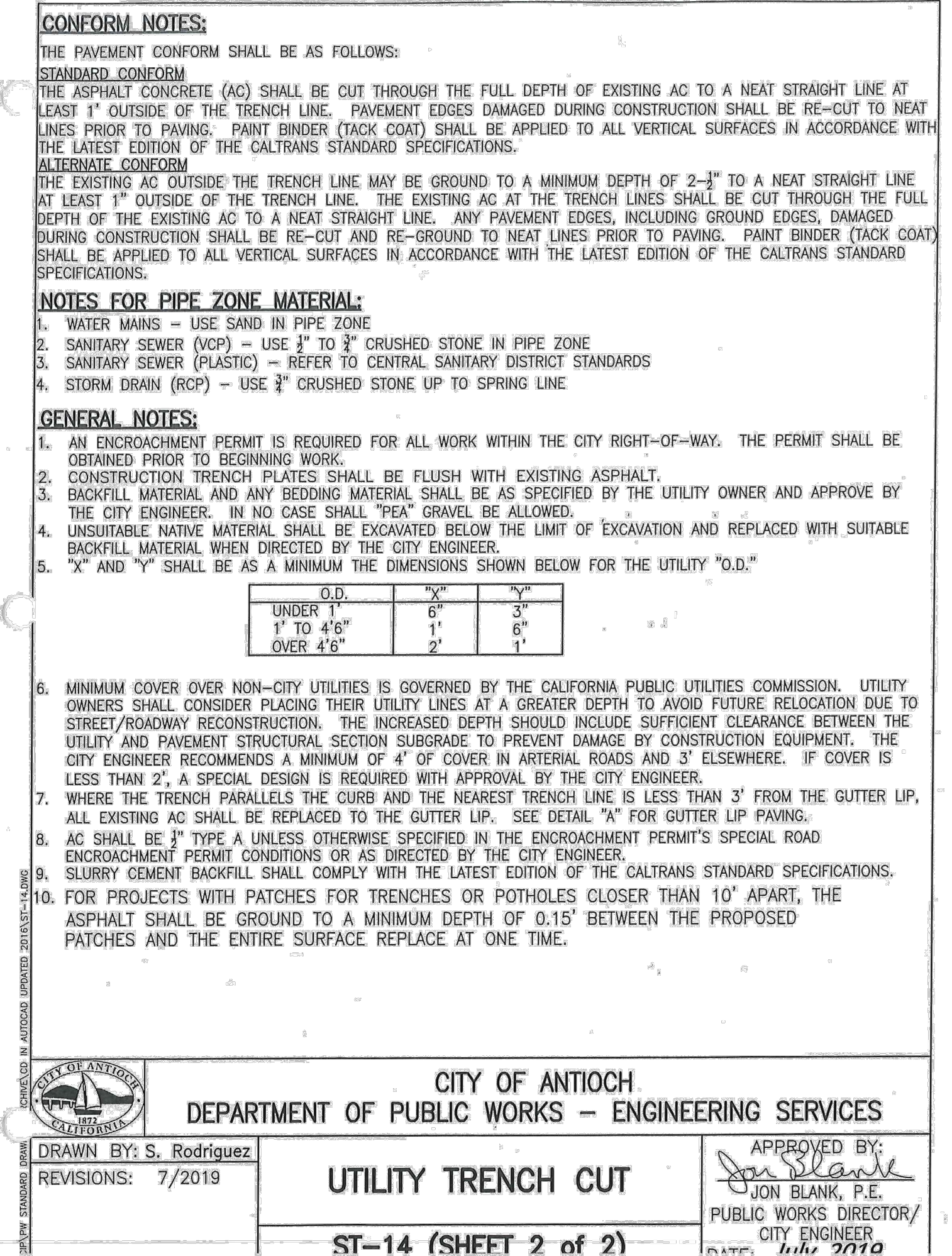
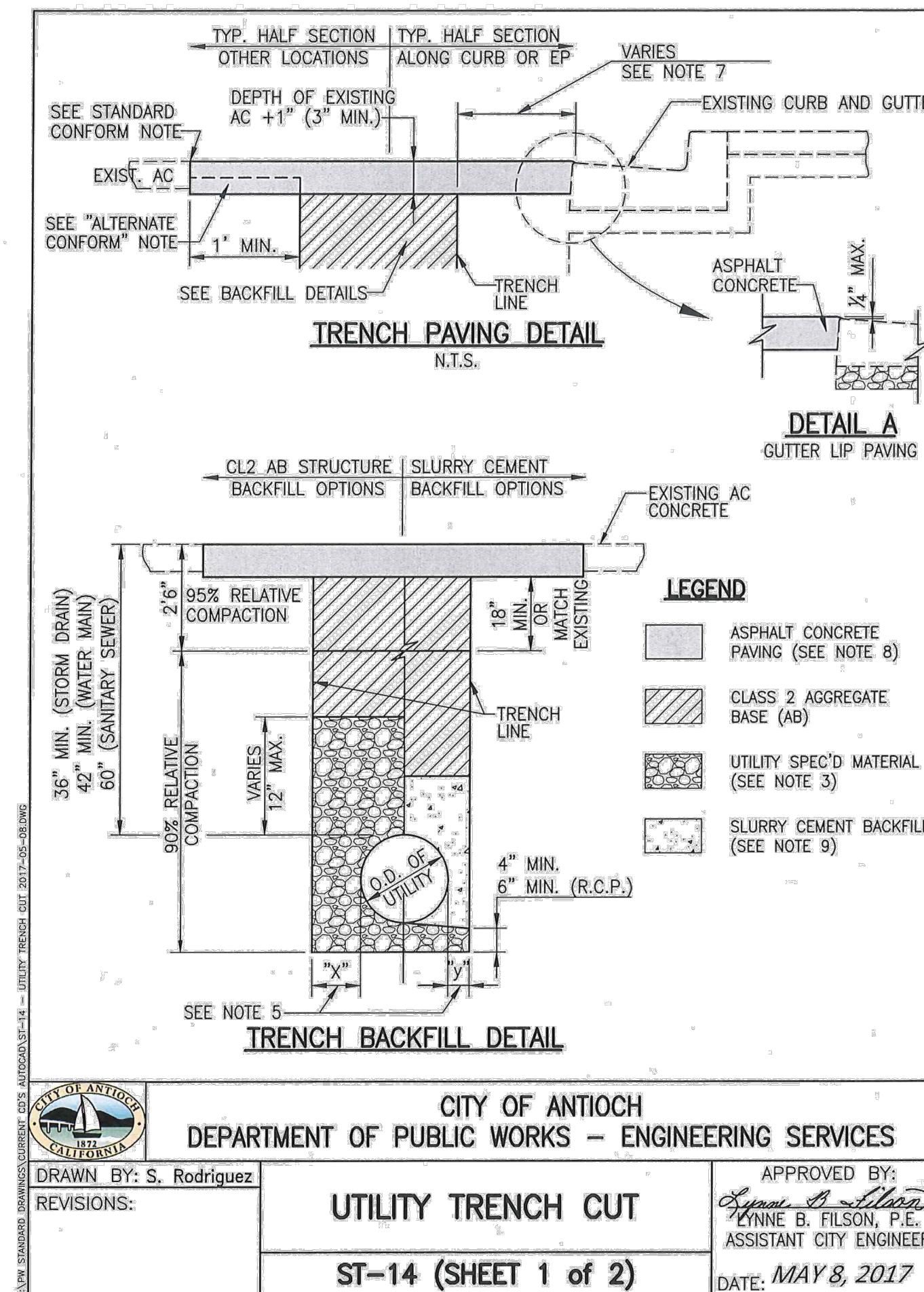
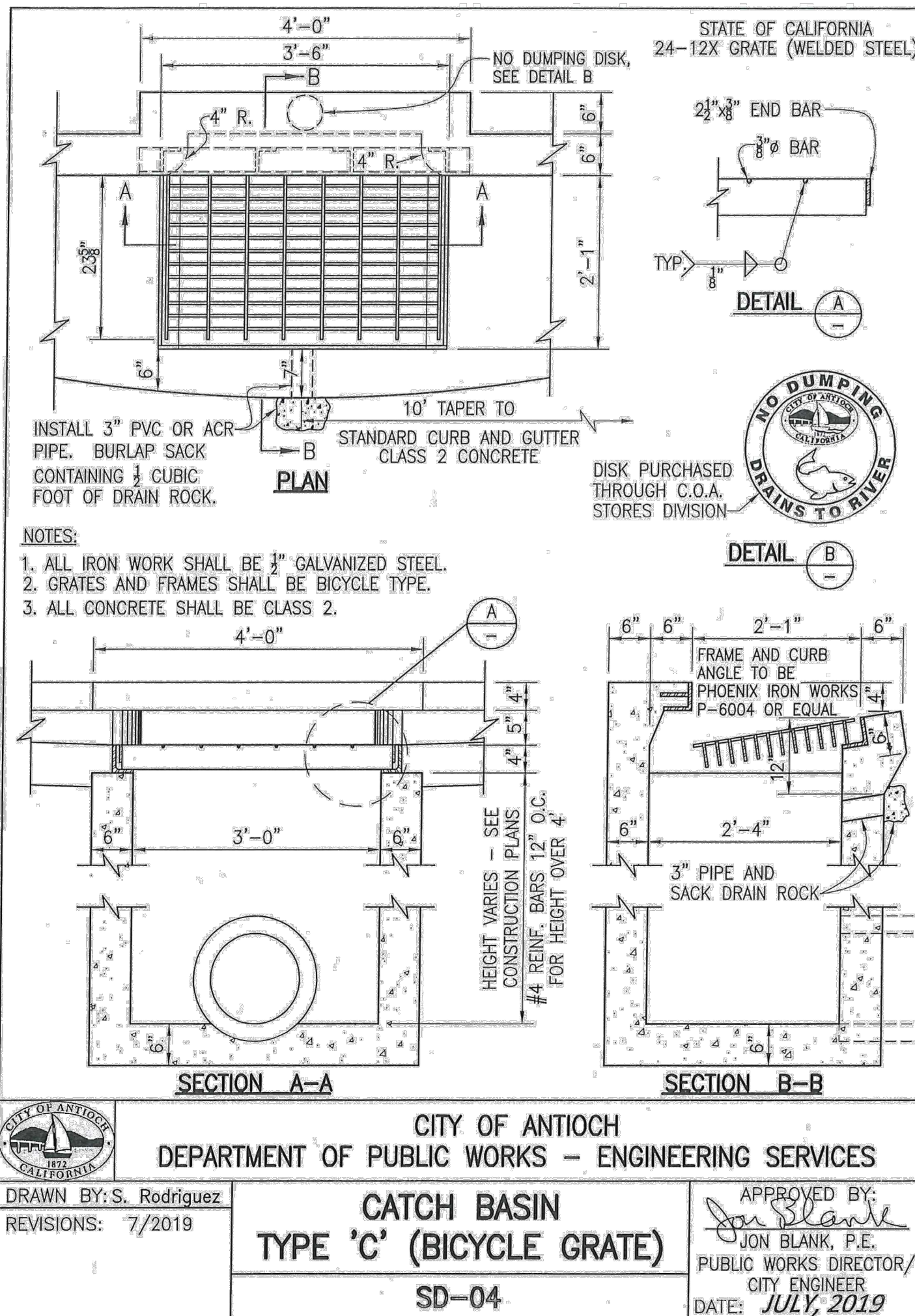
DATE: MARCH/25/2022	APPROVED BY:		
DESIGNED BY: JS			
CHECKED BY: GC	DIRECTOR OF PUBLIC WORKS/ CITY ENGINEER		
DRAWN BY: YI	DATE: C.E.		
REVISIONS:	NO.	BY	DATE

PUBLIC WORKS DEPARTMENT  
CAPITAL IMPROVEMENTS DIVISION

CONTRA LOMA ESTATES PARK  
RENOVATION PROJECT  
ENLARGEMENT PLAN  
LC401

SCALE: 1/8"=1'-0"  
PUBLIC WORKS  
PROJECT NO.  
  
SHEET 19  
  
OF 40 SHEETS





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INSPECTED BY: \_\_\_\_\_  
AS BUILT REVISIONS: \_\_\_\_\_  
DATE: \_\_\_\_\_  
BY: \_\_\_\_\_

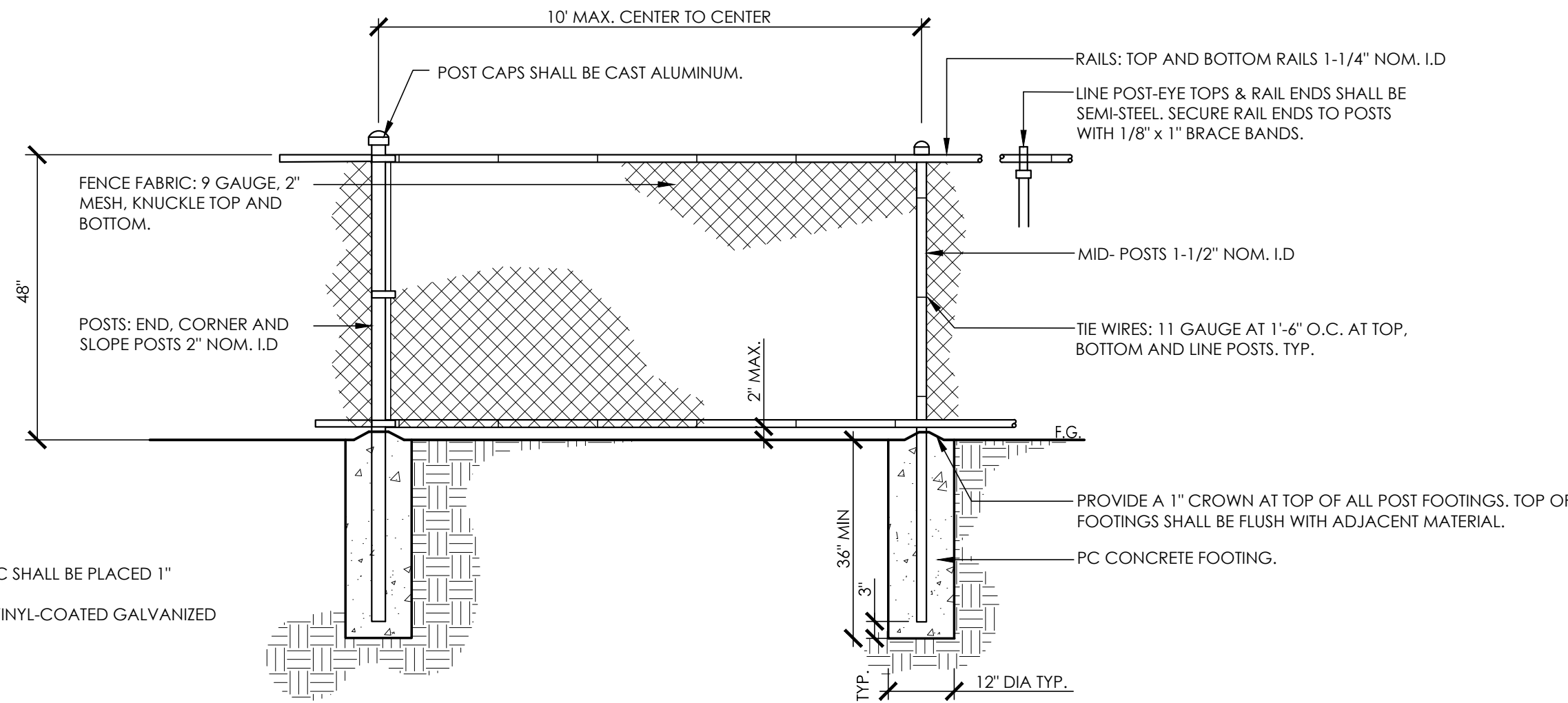
DATE: MARCH/25/2022	APPROVED BY:
DESIGNED BY: JS	DIRECTOR OF PUBLIC WORKS/ CITY ENGINEER
CHECKED BY: GC	DATE: C.E.
DRAWN BY: YI	NO. BY DATE
REVISIONS:	

PUBLIC WORKS DEPARTMENT  
CAPITAL IMPROVEMENTS DIVISION  
CONTRA LOMA ESTATES PARK  
RENOVATION PROJECT  
**CONSTRUCTION DETAILS  
LC501**

SCALE:  
PUBLIC WORKS  
PROJECT NO.  
SHEET 20  
OF 40 SHEETS





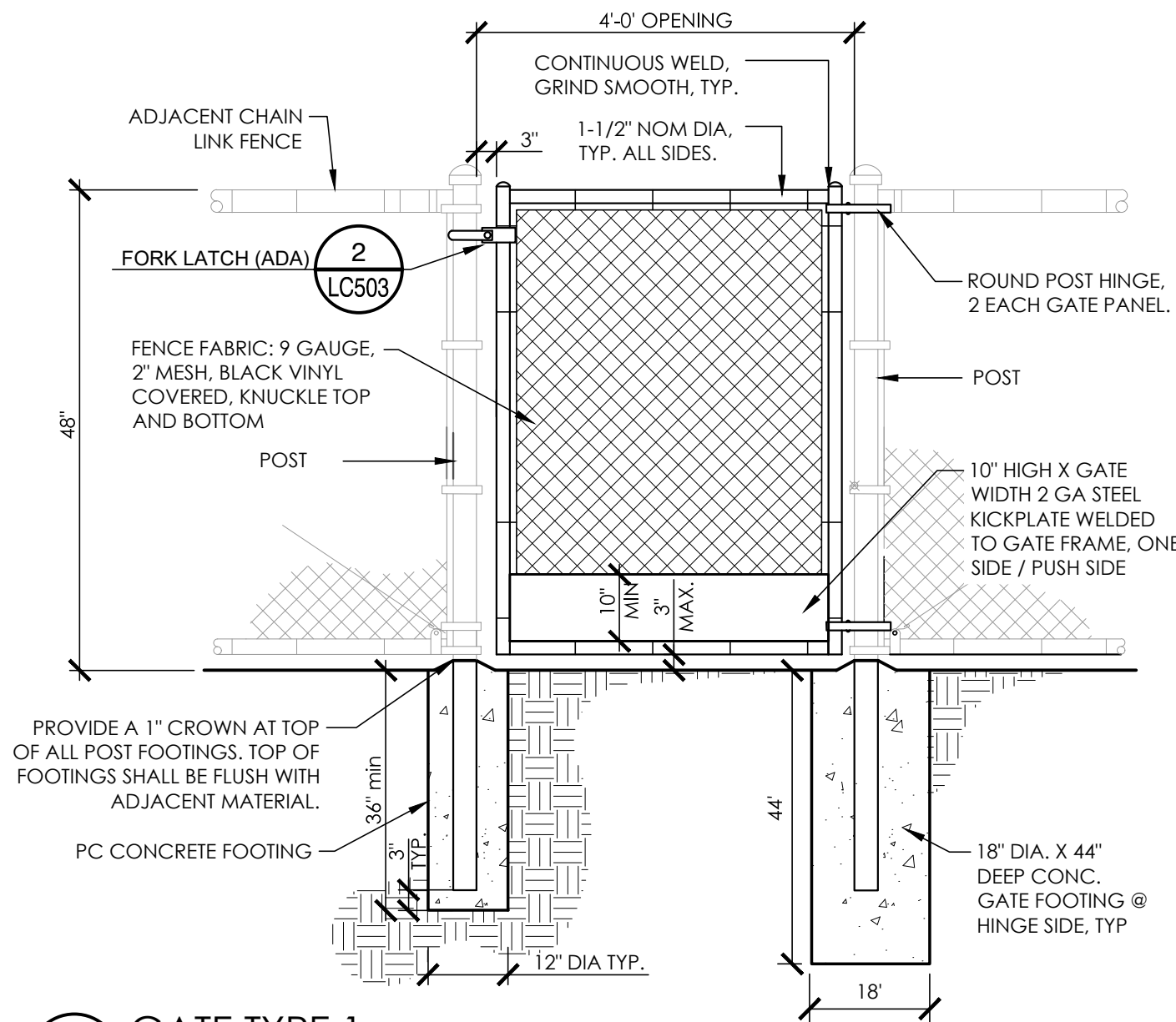


- NOTES:
1. BOTTOM EDGE OF FENCE FABRIC SHALL BE PLACED 1\"/>
  2. ALL FENCING SHALL BE BLACK VINYL-COATED GALVANIZED STEEL.

4 FENCE TYPE 1: CHAIN LINK FENCE - LOW

1/2\"/>

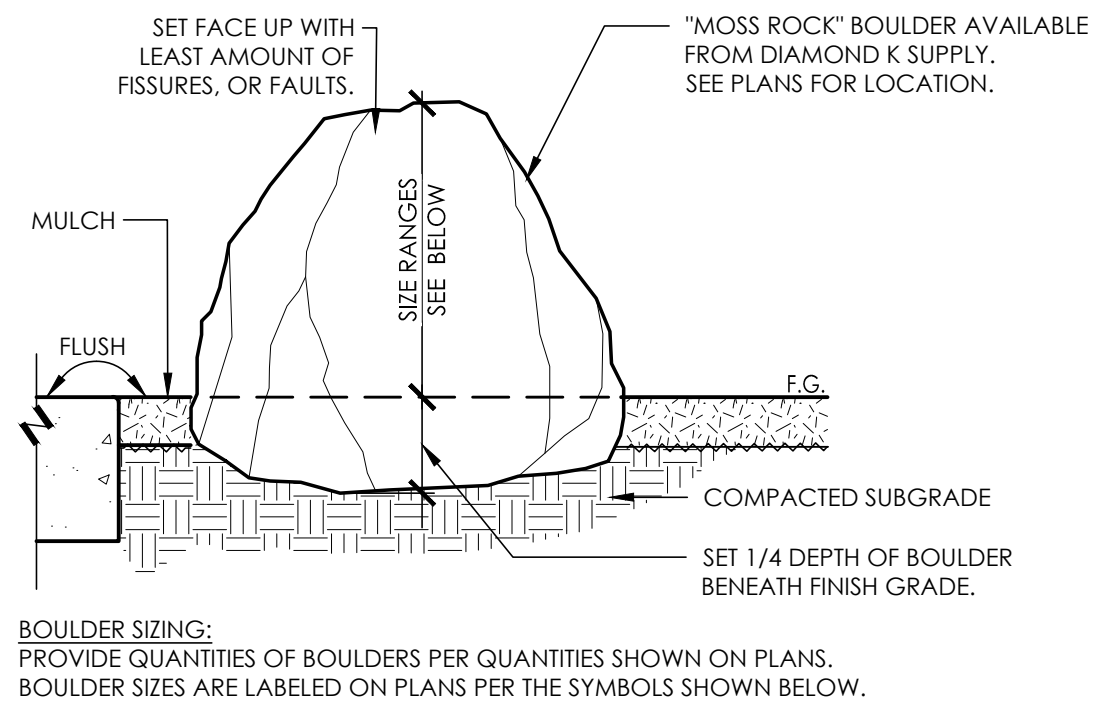
RRM-2186.01-77



1 GATE TYPE 1

NTS

RRM-2186.01-15

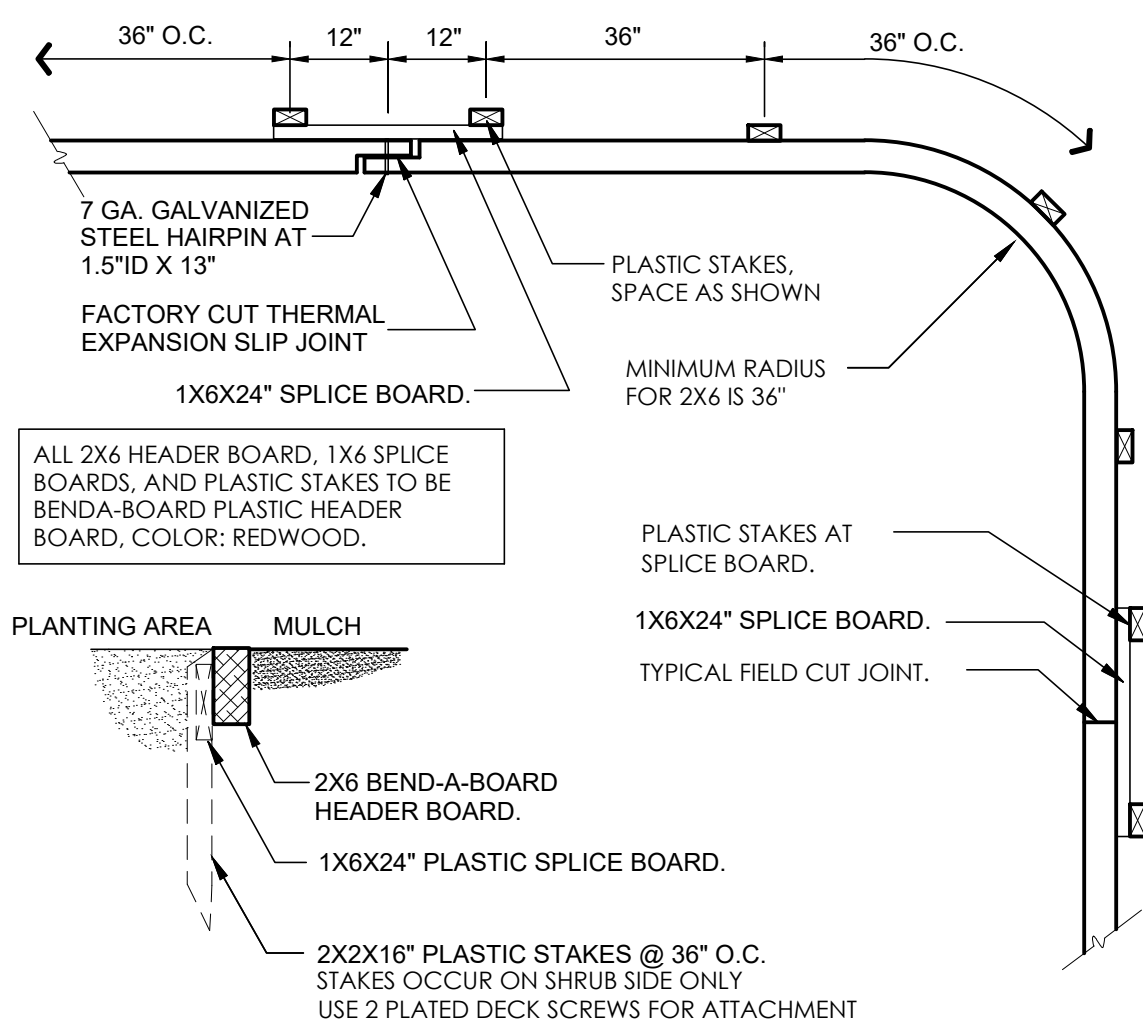


- NOTES:
- A. PROVIDE TYPICAL PHOTOGRAPHS OF BOULDERS FOR APPROVAL FROM AUTHORIZED REPRESENTATIVE PRIOR TO PURCHASING.
  - B. FINAL LAYOUT SHALL BE DETERMINED IN FIELD BY LANDSCAPE ARCHITECT.

6 BOULDERS

3/4\"/>

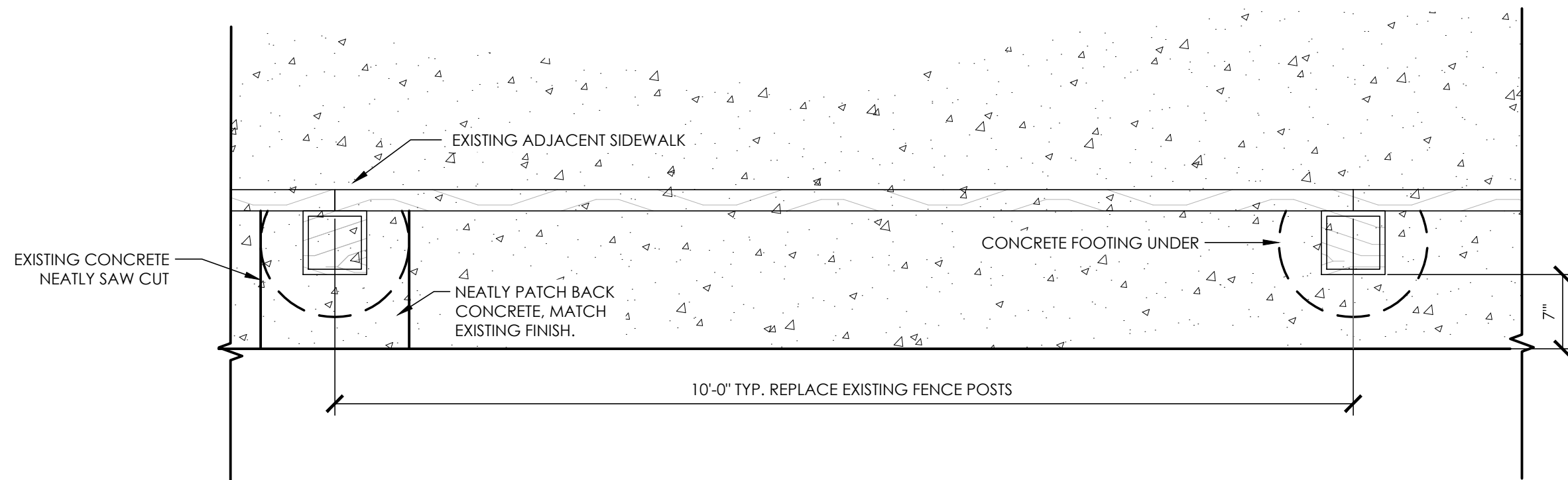
RRM-2186.01-83



7 HEADER

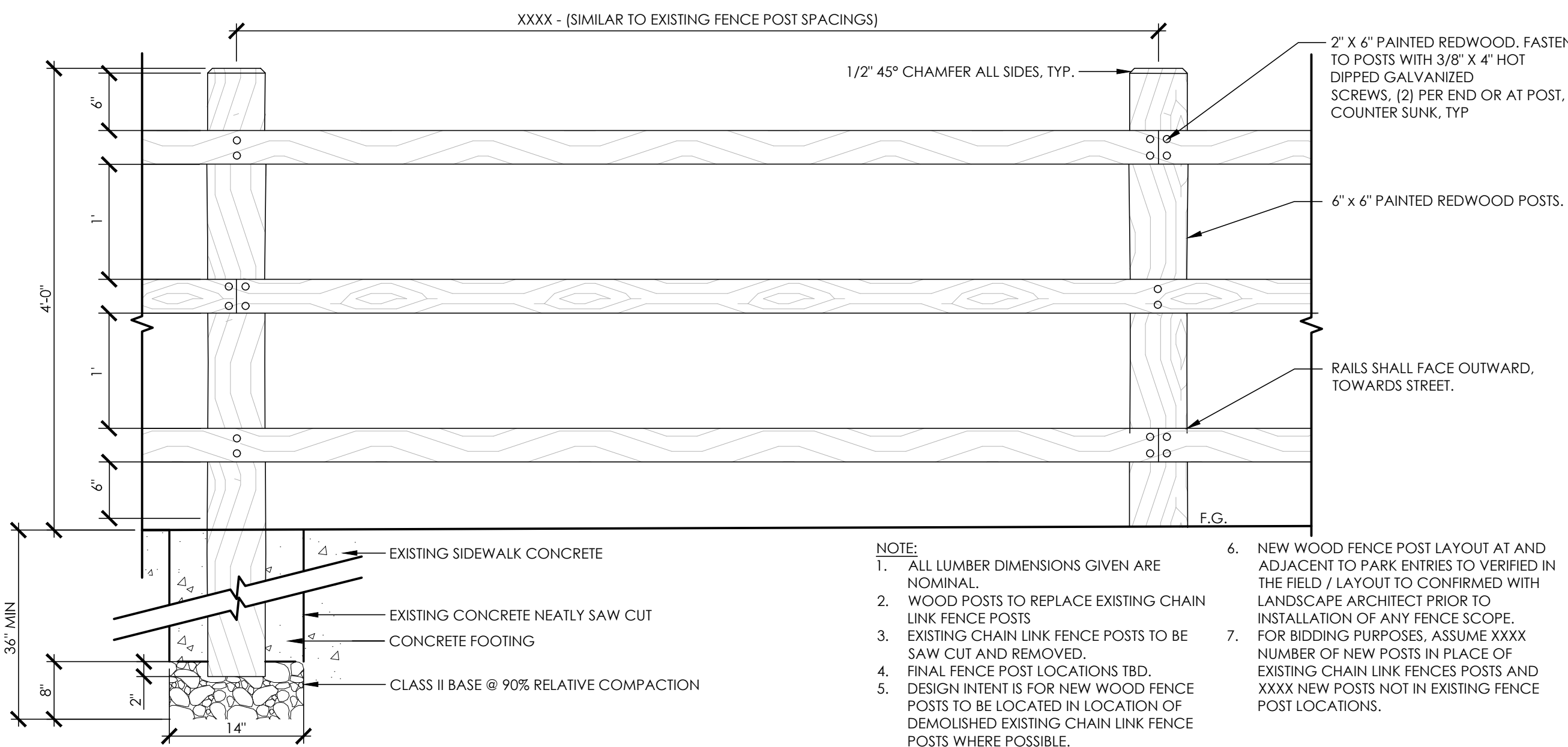
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RRM-2186.01-42

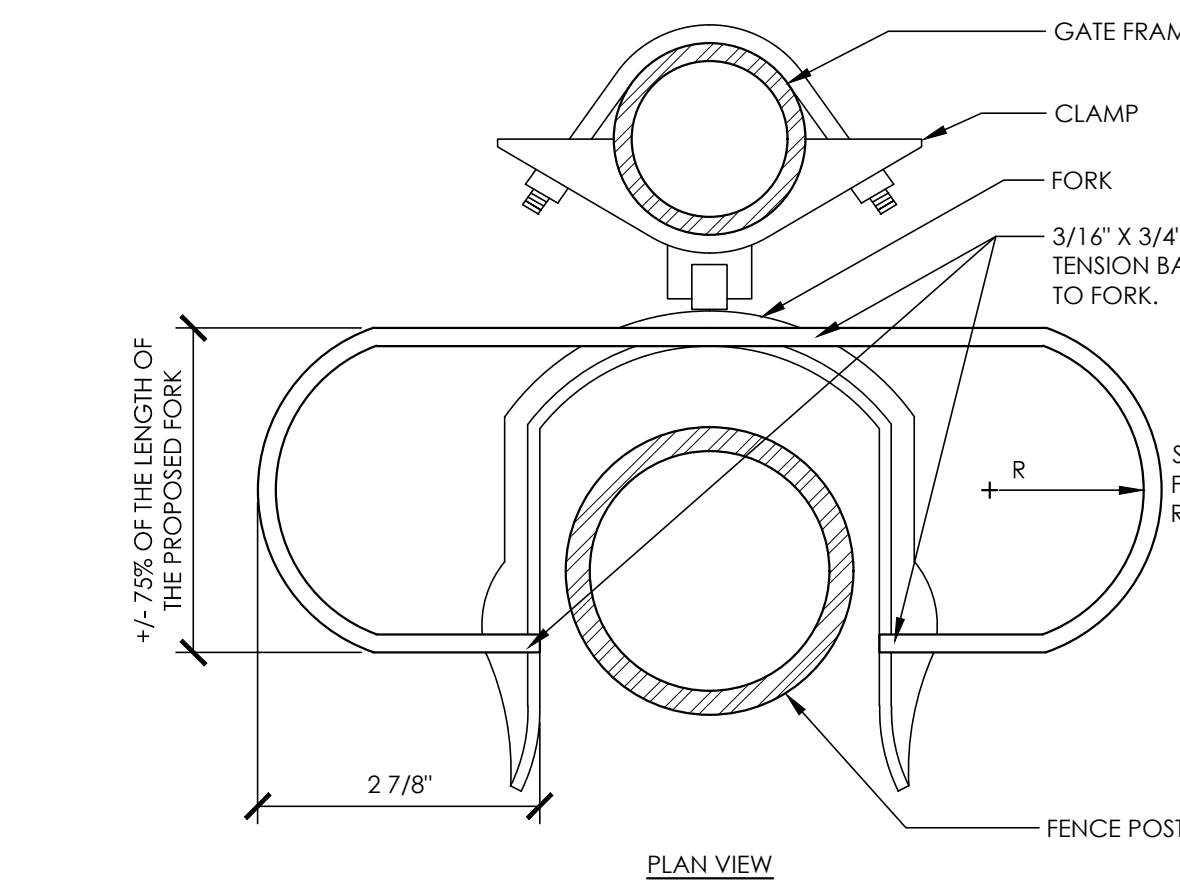


5 FENCE TYPE 2: THREE- RAIL FENCE TYPICAL DETAIL

1\"/>



- NOTE:
1. ALL LUMBER DIMENSIONS GIVEN ARE NOMINAL.
  2. WOOD POSTS TO REPLACE EXISTING CHAIN LINK FENCE POSTS.
  3. EXISTING CHAIN LINK FENCE POSTS TO BE SAW CUT AND REMOVED.
  4. FINAL FENCE POST LOCATIONS TBD.
  5. DESIGN INTENT IS FOR NEW WOOD FENCE POSTS TO BE LOCATED IN LOCATION OF DEMOLISHED EXISTING CHAIN LINK FENCE POSTS WHERE POSSIBLE.
  6. NEW WOOD FENCE POST LAYOUT AT AND ADJACENT TO PARK ENTRIES TO VERIFIED IN THE FIELD / LAYOUT TO CONFIRMED WITH LANDSCAPE ARCHITECT PRIOR TO INSTALLATION OF ANY FENCE SCOPE.
  7. FOR BIDDING PURPOSES, ASSUME XXXX NUMBER OF NEW POSTS IN PLACE OF EXISTING CHAIN LINK FENCES POSTS AND XXXX NEW POSTS NOT IN EXISTING FENCE POST LOCATIONS.

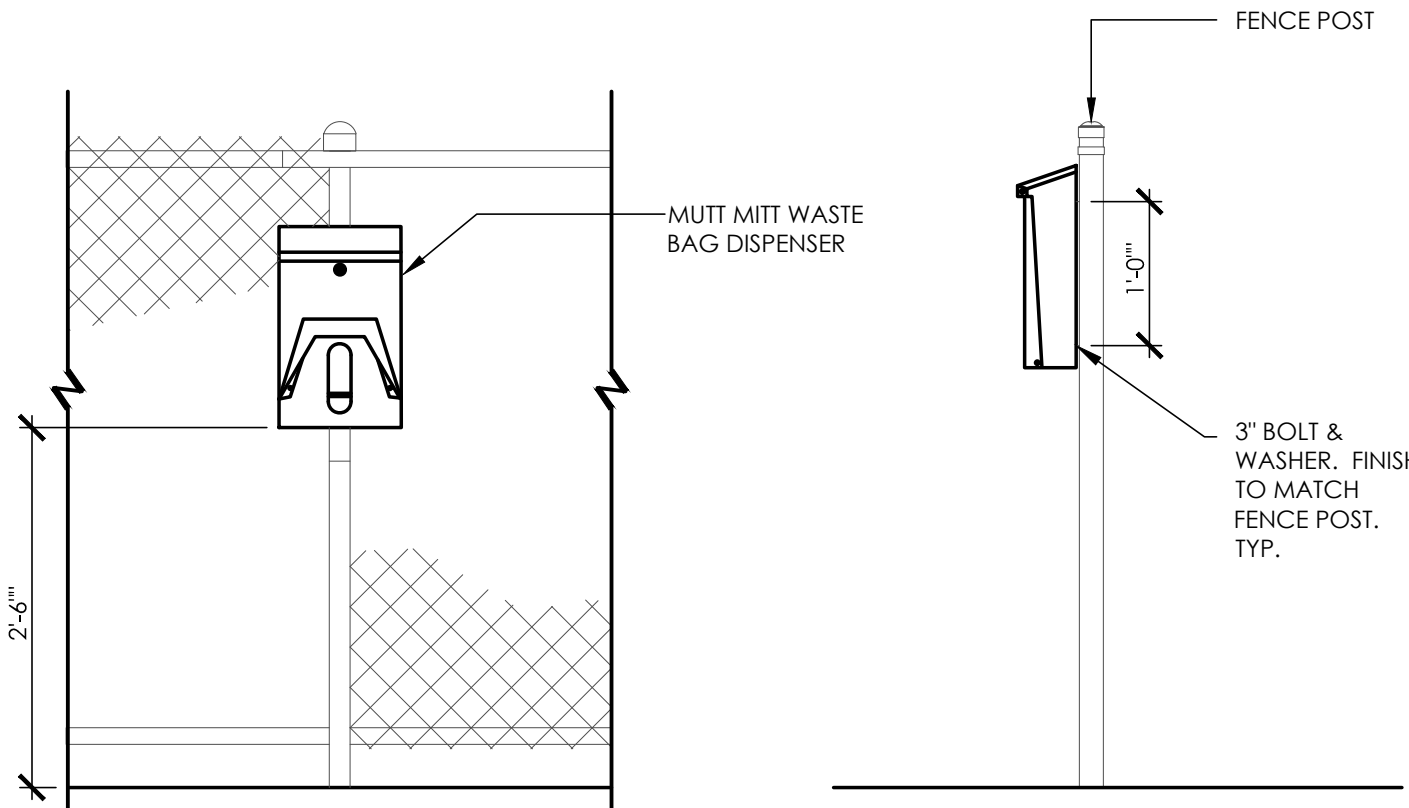


- NOTES:
1. THE FORK LATCH AT FENCE GATES SHALL NOT REQUIRE TIGHT GRASPING, PINCHING, OR TWISTING OF THE WRIST. THE FORCE REQUIRED TO ACTIVATE OPERABLE PARTS SHALL BE 5 LBS. MAXIMUM. (CBC SEC. 11B-404.2.7 AND 11B-309.4).
  2. MODIFIED FORK LATCH SHALL HAVE 7\"/>
  3. SUBMIT SHOP DRAWING FOR REVIEW AND APPROVAL.

2 FORK LATCH (ADA)

6\"/>

RRM-0510.01-63



3 DOG PICK-UP STATION

3/4\"/>

RRM-2186.01-70



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DATE ACCEPTED: \_\_\_\_\_

INSPECTED BY: \_\_\_\_\_

AS BUILT REVISIONS:

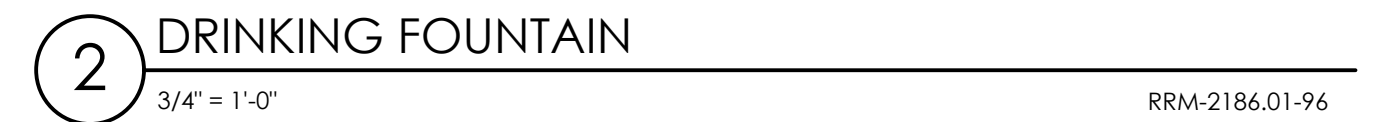
DATE: \_\_\_\_\_

BY: \_\_\_\_\_

DATE: MARCH/25/2022	APPROVED BY:		
DESIGNED BY: JS	DIRECTOR OF PUBLIC WORKS/ CITY ENGINEER		
CHECKED BY: GC	DATE: C.E.		
DRAWN BY: YI			
REVISIONS:	NO.	BY	DATE

PUBLIC WORKS DEPARTMENT CAPITAL IMPROVEMENTS DIVISION		SCALE: PUBLIC WORKS PROJECT NO.
CONTRA LOMA ESTATES PARK RENOVATION PROJECT		SHEET 22
CONSTRUCTION DETAILS LC503		OF 40 SHEETS







1 PREFABRICATED RESTROOM BUILDING

NTS

FILE LOCATION/NAME:



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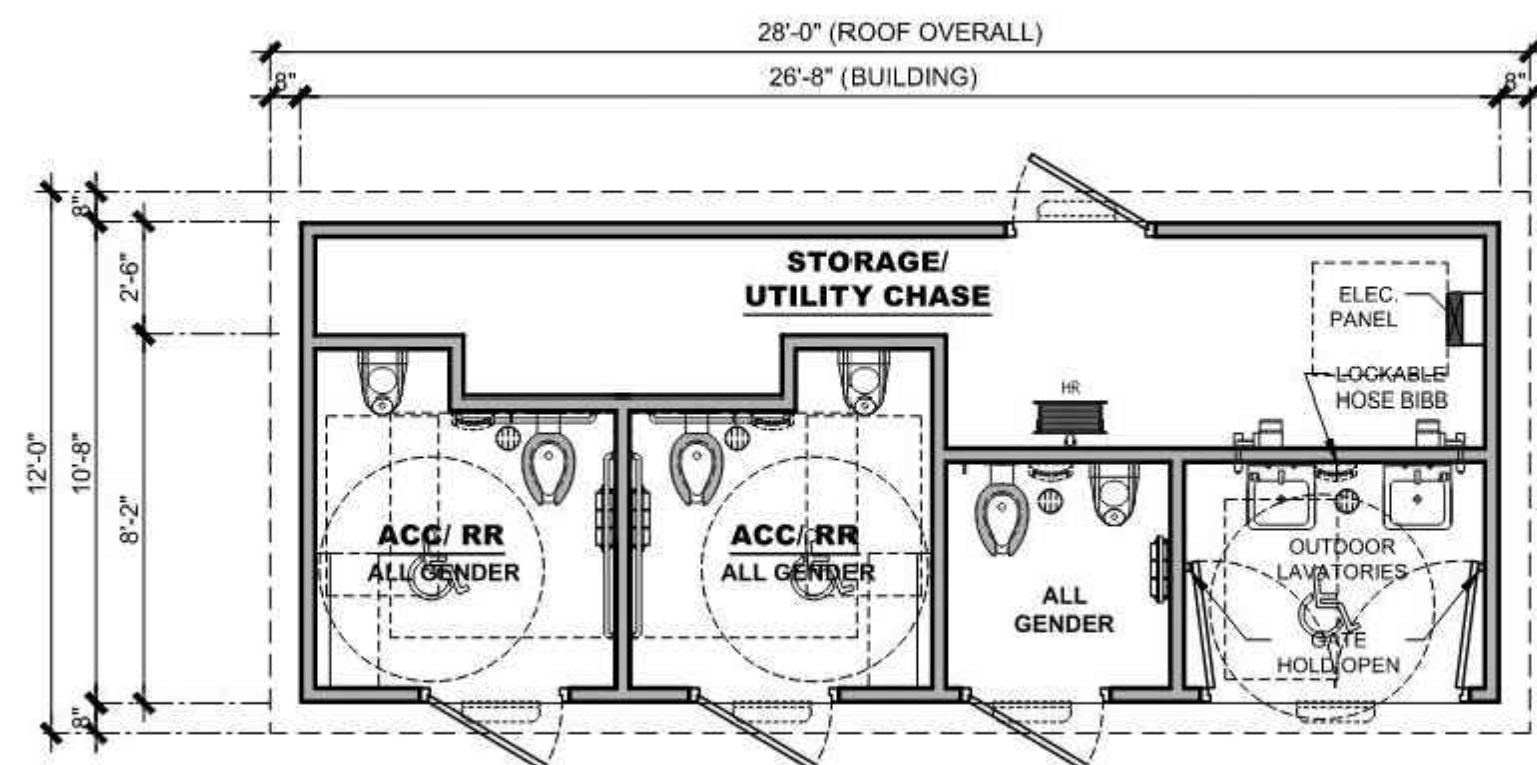
DATE ACCEPTED: \_\_\_\_\_  
INSPECTED BY: \_\_\_\_\_  
AS BUILT REVISIONS: \_\_\_\_\_  
DATE: \_\_\_\_\_  
BY: \_\_\_\_\_

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REVISIONS: \_\_\_\_\_

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CITY ENGINEER  
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PUBLIC WORKS DEPARTMENT  
CAPITAL IMPROVEMENTS DIVISION  
CONTRA LOMA ESTATES PARK  
RENOVATION PROJECT  
**CONSTRUCTION DETAILS  
LC505**

SCALE:  
PUBLIC WORKS  
PROJECT NO.  
SHEET 24  
OF 40 SHEETS



FLOOR PLAN  
SCALE: 3/16"=1'-0"



ELEVATION 1  
SCALE: 3/16"=1'-0"

ELEVATION 2  
SCALE: 3/16"=1'-0"



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BUILDING TYPE:  
PROJECT:

RESTROOM BUILDING  
CONTRA LOMA ESTATES  
ANTIOCH, CA

REVISION #

REVISION DATE

DRAWN BY:

PROJECT #:

START DATE:

DRAWN BY:

MAX. PERSON / HOUR:

11105

11/10/2021

EOR

135 S

-NOT FOR CONSTRUCTION - PRELIMINARY DESIGN DRAWING ONLY - DO NOT SCALE, DIMENSIONS PRESIDE



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BUILDING TYPE:

RESTROOM BUILDING

PROJECT:

DATE:

DRAWN BY:

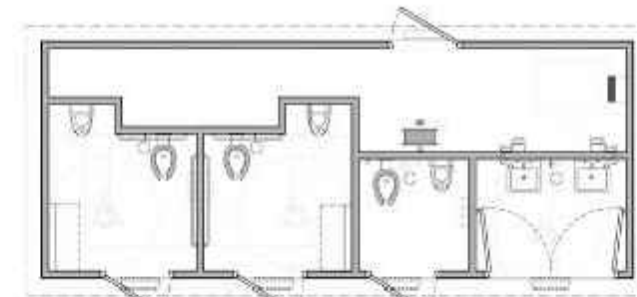
PROJECT #:

SHEET:

FD-3

3 OF 3

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FLOOR PLAN  
SCALE: NOT TO SCALE

RESTROOM BUILDING  
ANTIOCH, CALIFORNIA  
**CONTRA LOMA ESTATES**

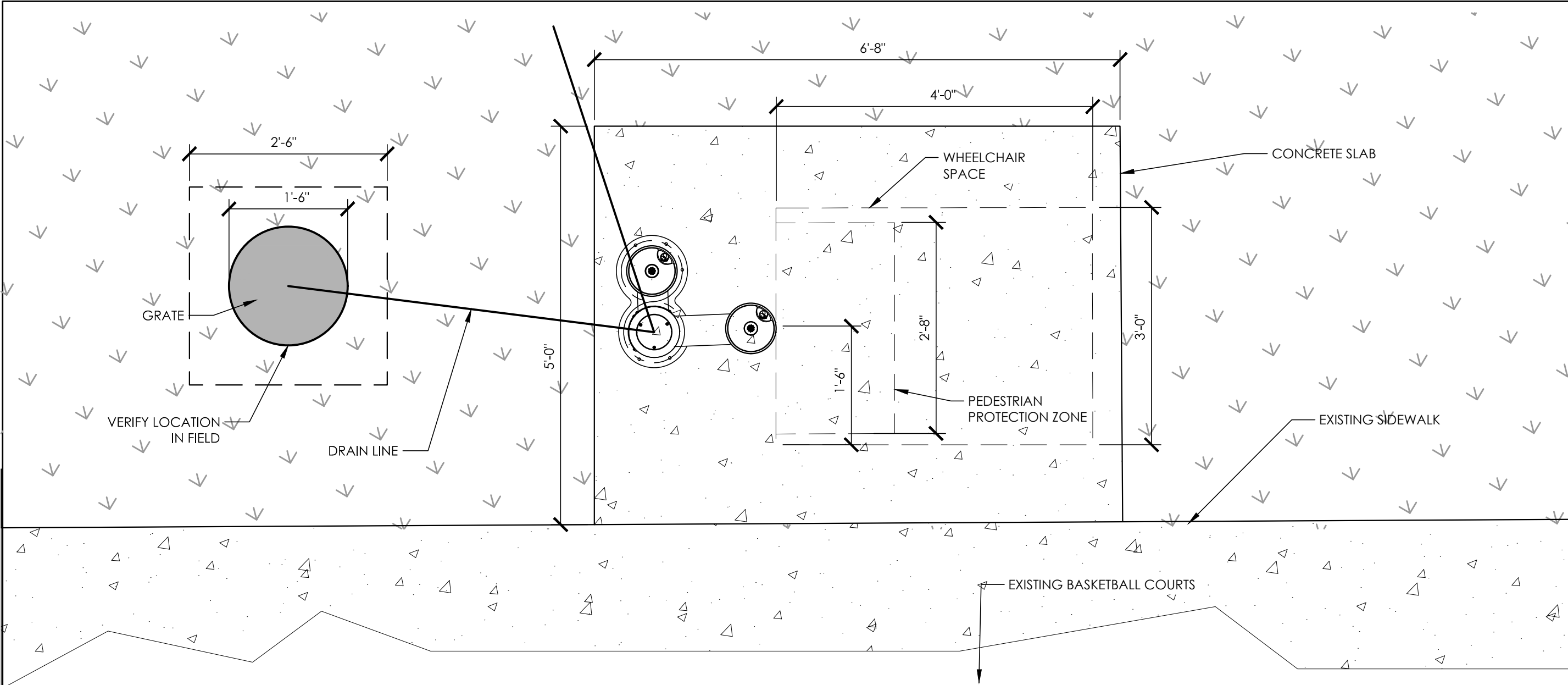
JETSET ARCHITECTURE: 3D RENDERING ONLY FOR REPRESENTATION. COLORS AND MATERIALS ARE SUBJECT TO CHANGE.

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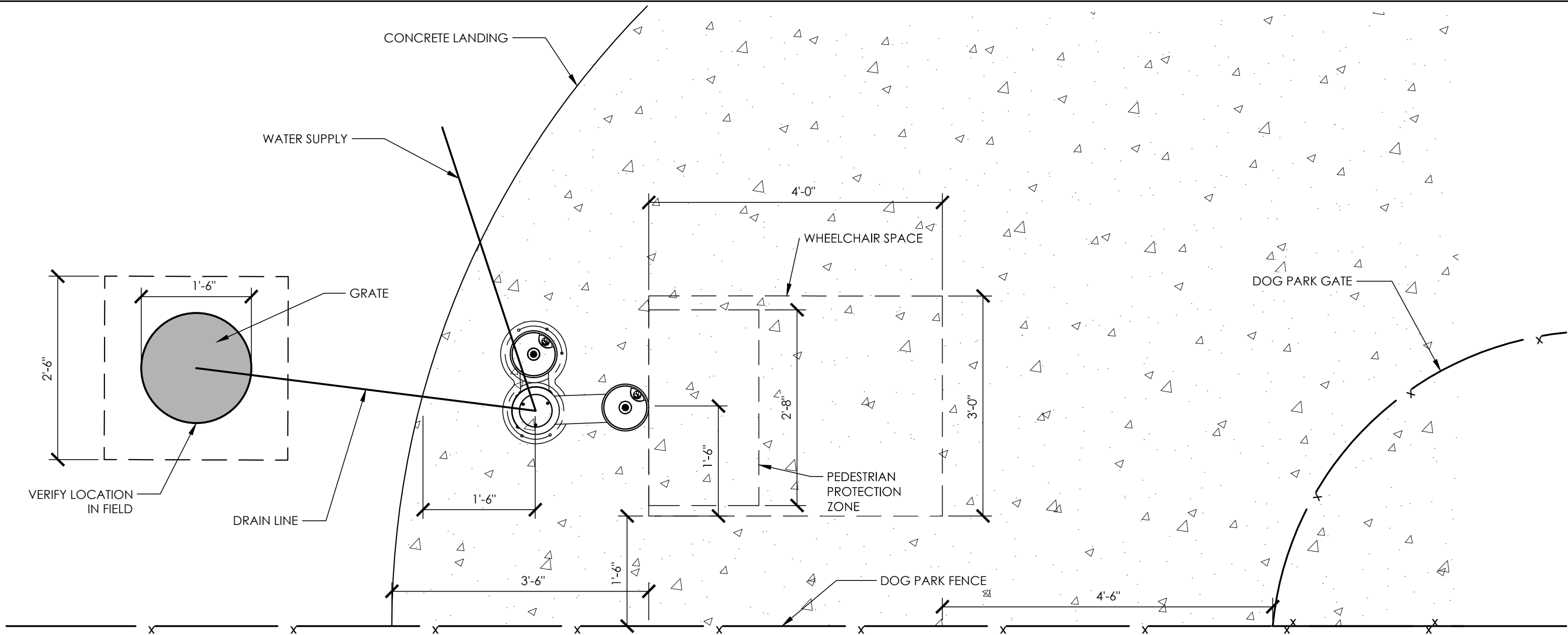


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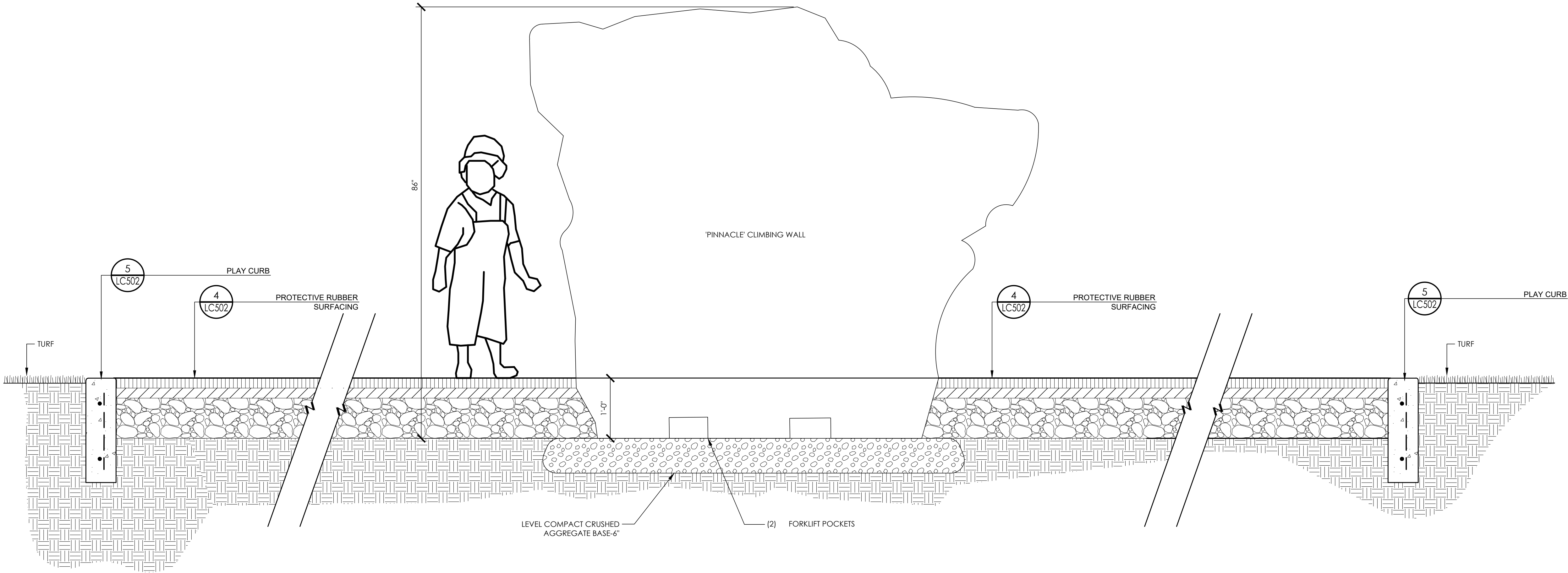




3 DRINKING FOUNTAIN REPLACEMENT  
3/4" = 1'-0" RRM-2186.01-103



2 DRINKING FOUNTAIN PLAN FOR DOG RUN  
3/4" = 1'-0" RRM-2186.01-100



- NOTES:
- A. AGGREGATE MUST BE AT SAME LEVEL AS SUBGRADE, OR BELOW SUBGRADE
  - B. AFTER 'PINNACLE' / 'POINTE' IS PLACED BY LIFT, COVER POCKETS WITH (4) SUPPLIED ROCK POCKET COVERS
  - C. STEEL SHIMS (NOT SUPPLIED) MAY BE REQUIRED TO STABILIZE THE PINNACLE WHEN INSTALLED ON A CONCRETE SLAB.
  - D. INSTALLATION PER MANUFACTURER'S INSTRUCTIONS. REFER TO LANDSCAPE STRUCTURES' PRODUCT SPECIFIC PRODUCT INFORMATION FOR INSTALLATION INSTRUCTIONS.

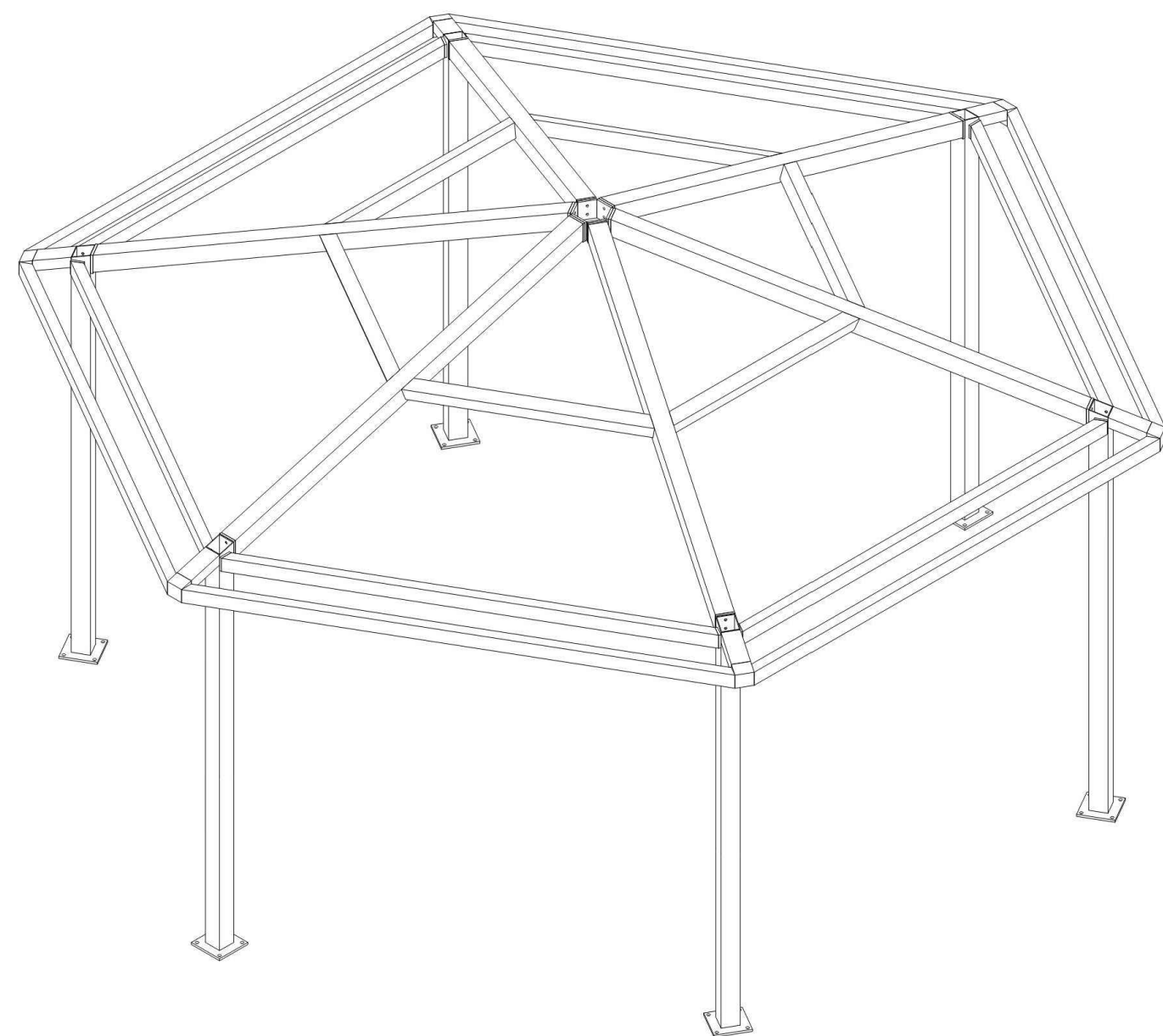
1 CLIMBING WALL 'PINNACLE' SECTION ('POINTE' CLIMBING WALL SIMILAR)  
1" = 1'-0" RRM-2186.01-101



90% CDs  
DATE ACCEPTED: \_\_\_\_\_  
INSPECTED BY: \_\_\_\_\_  
AS BUILT REVISIONS: \_\_\_\_\_  
DATE: \_\_\_\_\_  
BY: \_\_\_\_\_

DATE: MARCH/25/2022	APPROVED BY:		
DESIGNED BY: JS			
CHECKED BY: GC	DIRECTOR OF PUBLIC WORKS/ CITY ENGINEER		
DRAWN BY: YI	DATE:	C.E.	
REVISIONS:	NO.	BY	DATE

PUBLIC WORKS DEPARTMENT CAPITAL IMPROVEMENTS DIVISION		SCALE: PUBLIC WORKS PROJECT NO.
CONTRA LOMA ESTATES PARK RENOVATION PROJECT <b>CONSTRUCTION DETAILS</b> <b>LC506</b>		SHEET <u>25</u> OF <u>40</u> SHEETS

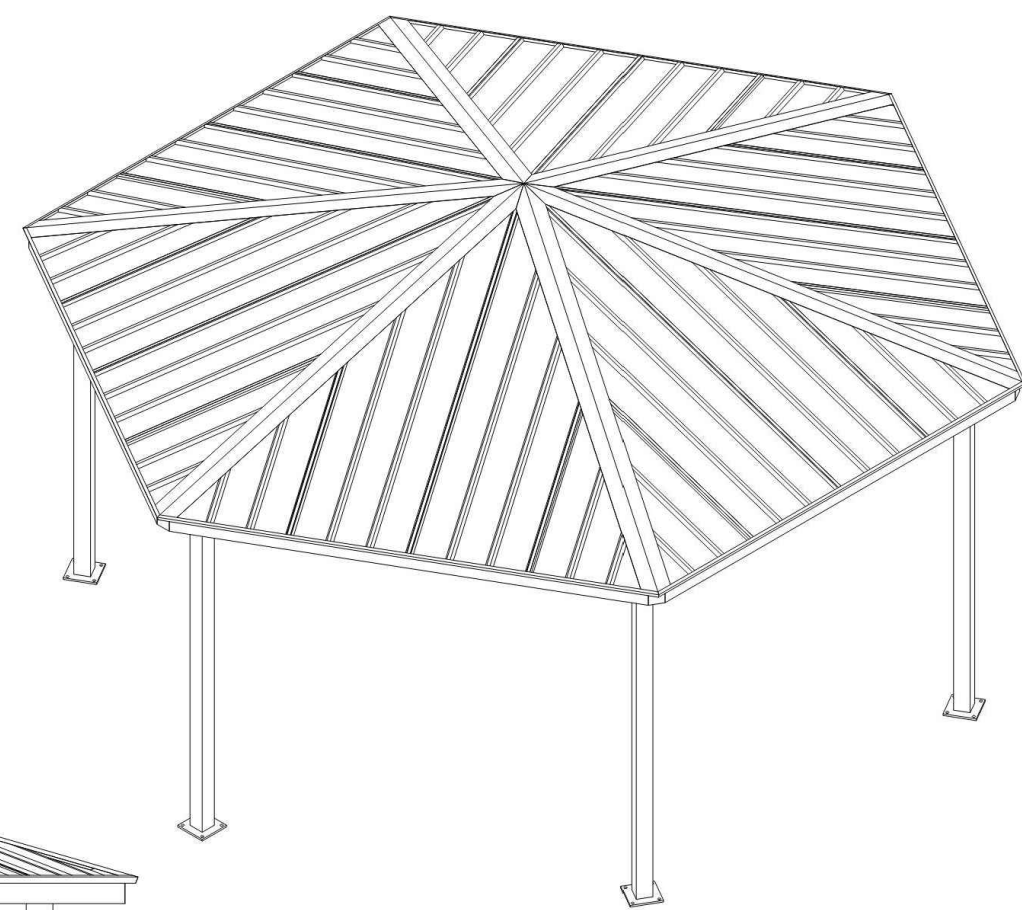
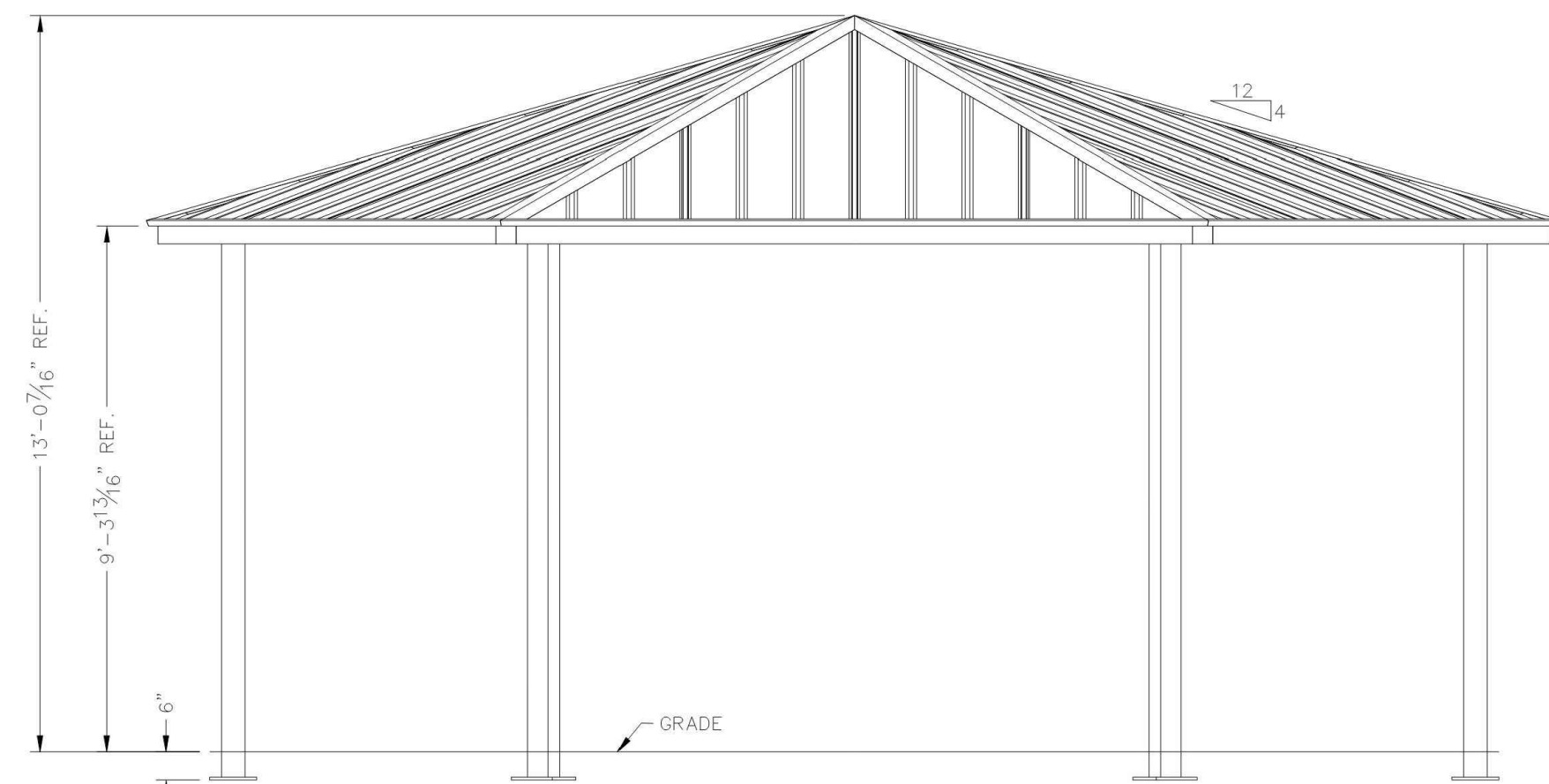


Frame

BUILDING TYPE:
HX25-9M-P4
PROJECT NAME:

SHEET  
3.0

DWG:Shelters\HX\25\M-P4-45-90-100\Drawings\Preliminary\HX25M-P4-45-90-100-REVA~73234.dwg



Elevation

BUILDING TYPE:
HX25-9M-P4
PROJECT NAME:

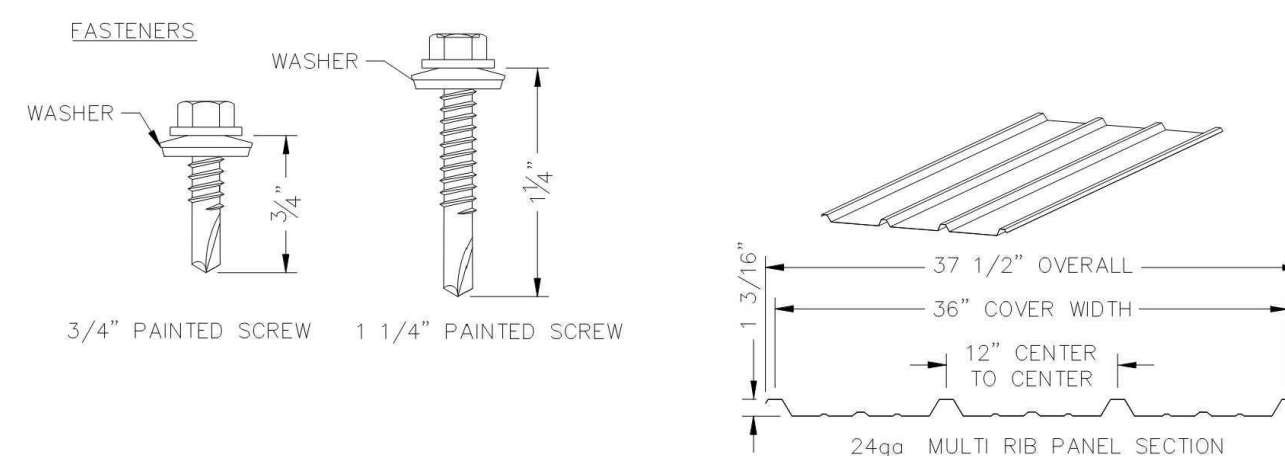
SHEET  
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WCC Shortform (NLI) 25-M-04-45-00-100 Decision: Delinquent; UV25M-D4-45-00-100 DECVA-73334 due

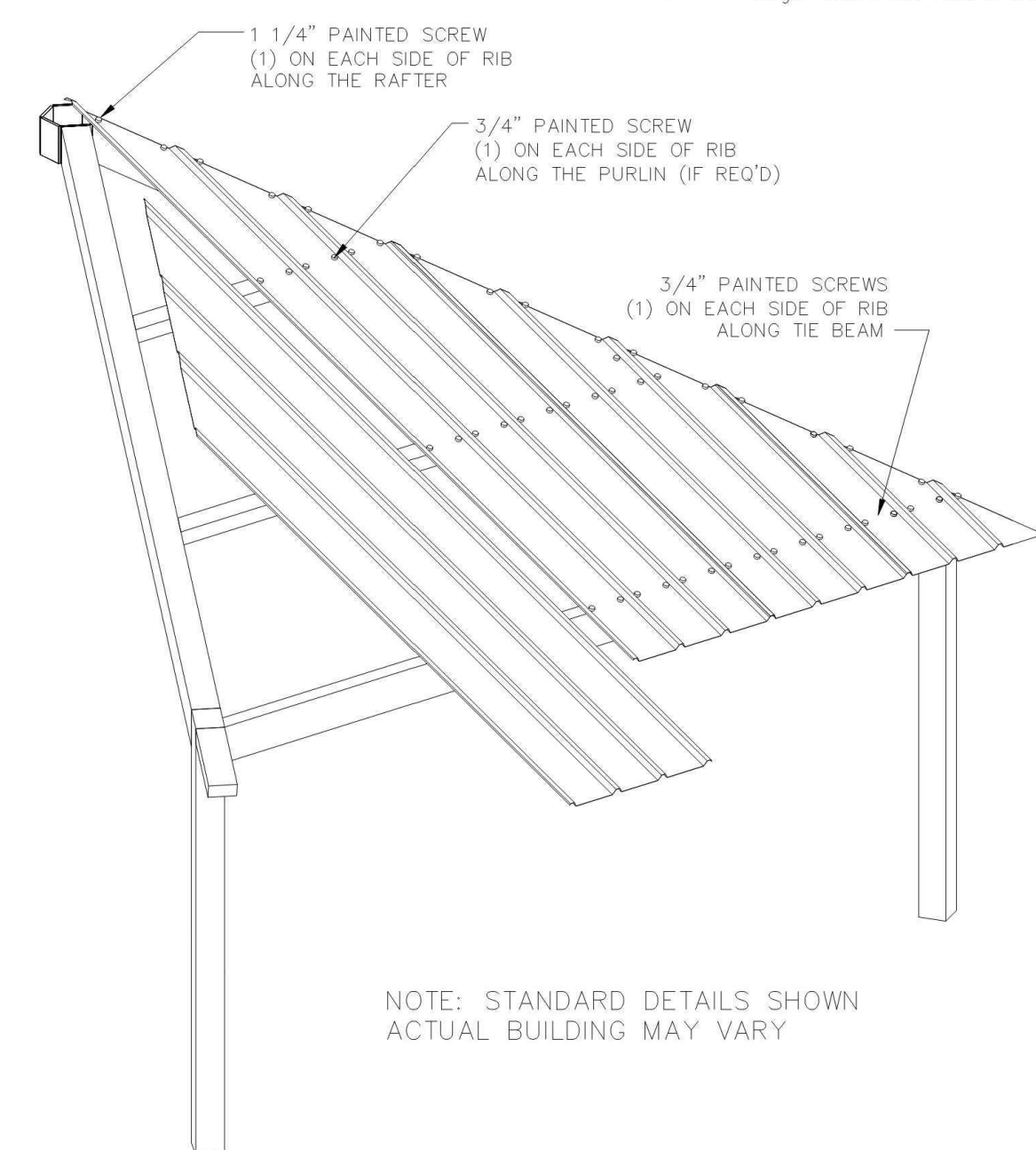
ISOMETRIC

ALL STRUCTURAL COMPONENTS WILL BE:  
TUBE: ASTM A500 GRADE B  
PLATE: ASTM A36  
BOLTS: ASTM A325  
NUTS: ASTM A563  
WELDING: GMAW

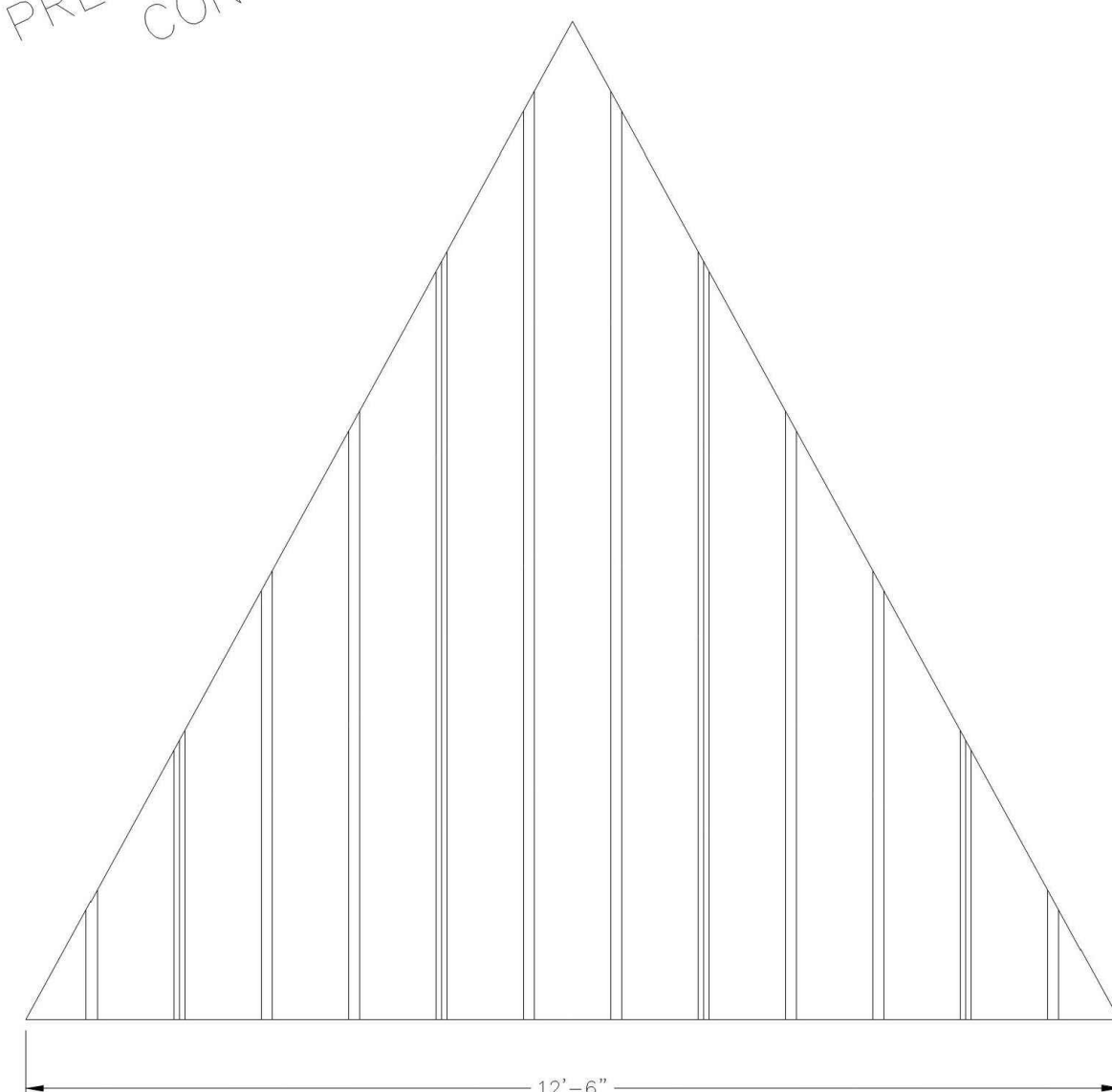
NOTE:  
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PRELIMINARY: NOT FOR  
CONSTRUCTION



NOTE: STANDARD DETAILS SHOWN  
ACTUAL BUILDING MAY VARY



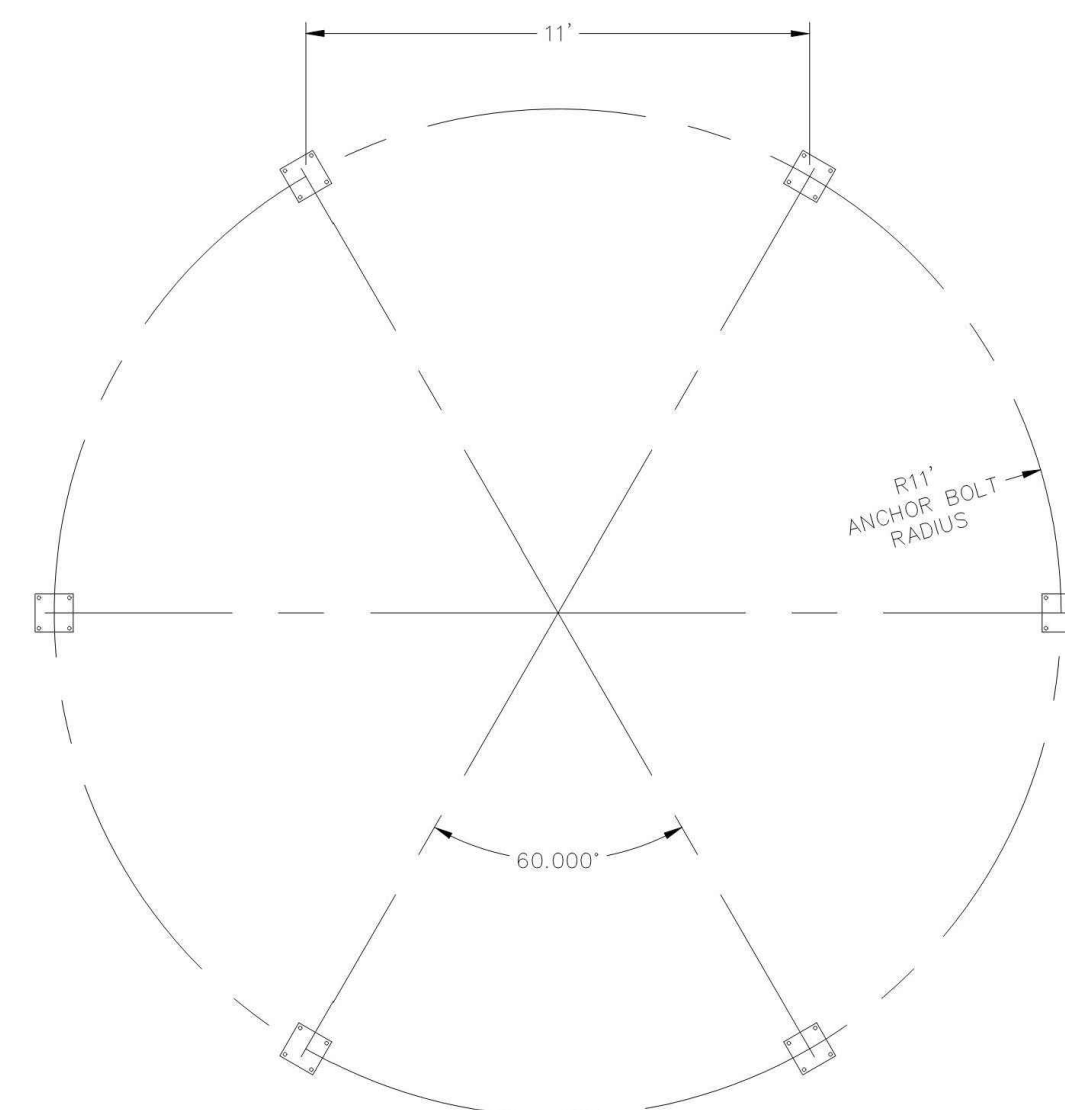
## ROOF LAYOUT

## ROOF LAYOUT

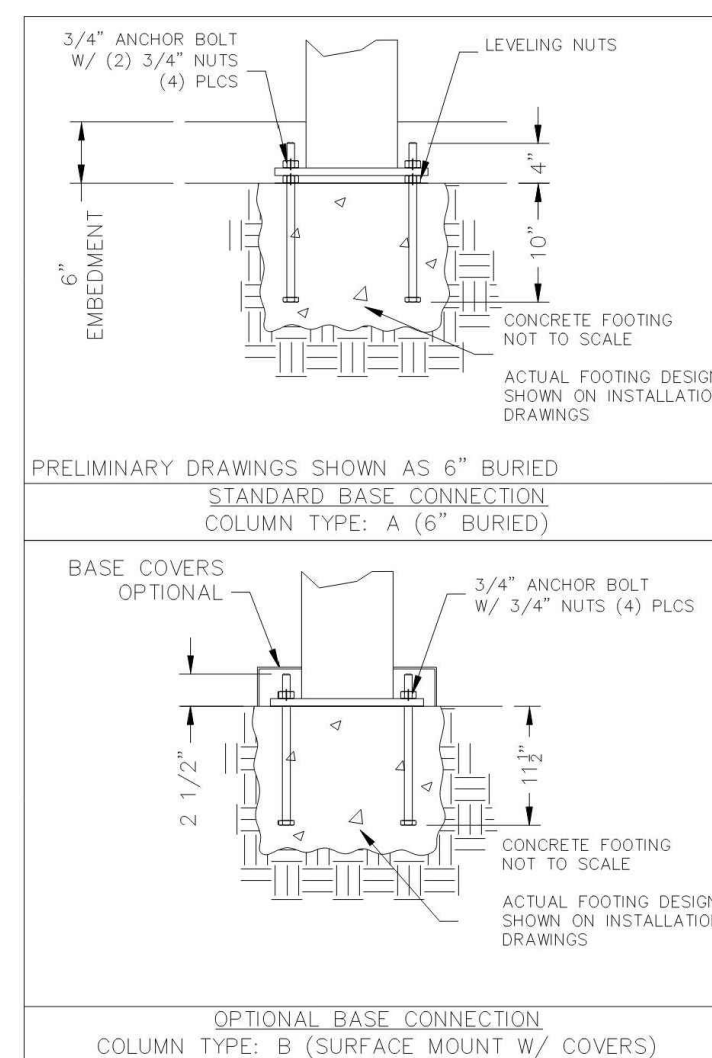
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PROJECT NAME:	

SHEET  
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Engineering Vectors (Answer of Exercise 1) File: c:\c00897  
26-33-20-87

DWG:Shelters\HX\25\M-P4-45-90-100\Drawings\Preliminary\HX25M-P4-45-90-100-REVA~73234.dwg



### ANCHOR BOLT LAYOUT



## Anchor Bolt Layout

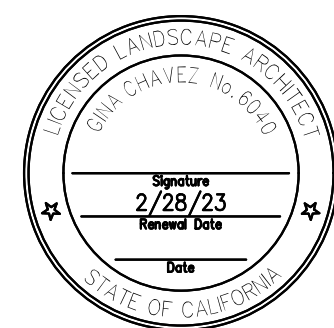
BUILDING TYPE:	HX25-9M-P4
PROJECT NAME:	

SHEET  
2.0

Engineering/Architecture/Books/Title's/Cover  
DE-73-01-47

WC:Shelton\UV 25\UV-D4-45-00-100\Dequian\Dequian\UV25M-D4-45-00-100\DEVA-7334.dwg

# 1 SHADE STRUCTURE 1 - HX25



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BY: \_\_\_\_\_

DATE: MARCH/25/2022		APPROVED BY:		
DESIGNED BY: JS		DIRECTOR OF PUBLIC WORKS, CITY ENGINEER		
CHECKED BY: GC				
DRAWN BY: YI				
DATE:		C.E.		
REVISIONS:		NO.	BY	DATE

PUBLIC WORKS DEPARTMENT  
CAPITAL IMPROVEMENTS DIVISION

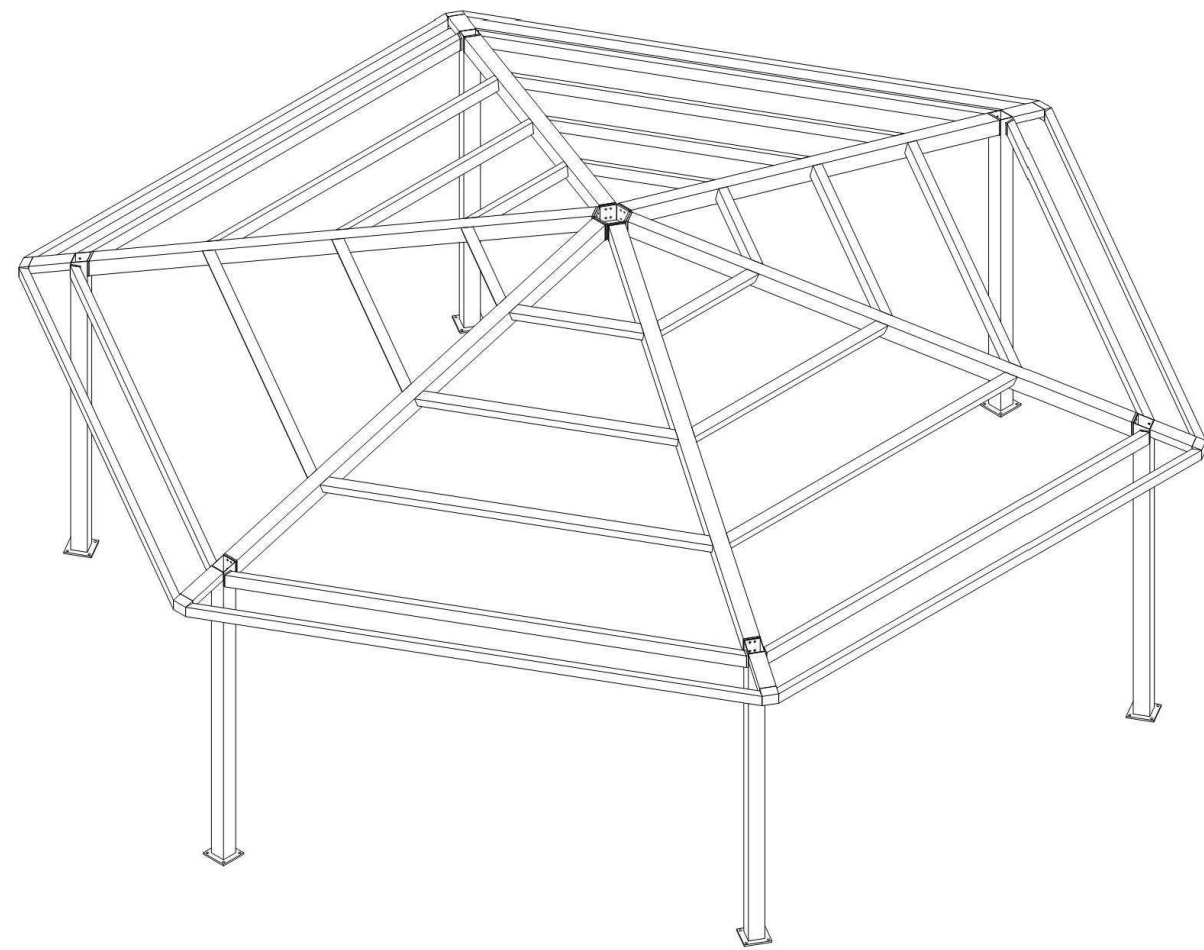
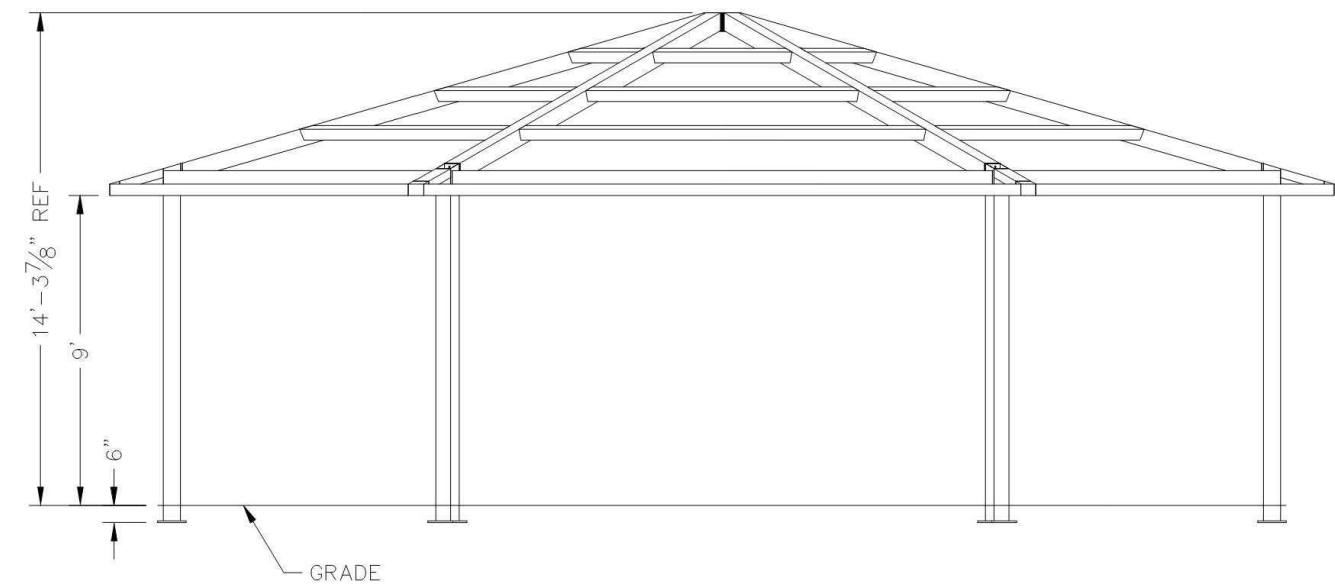
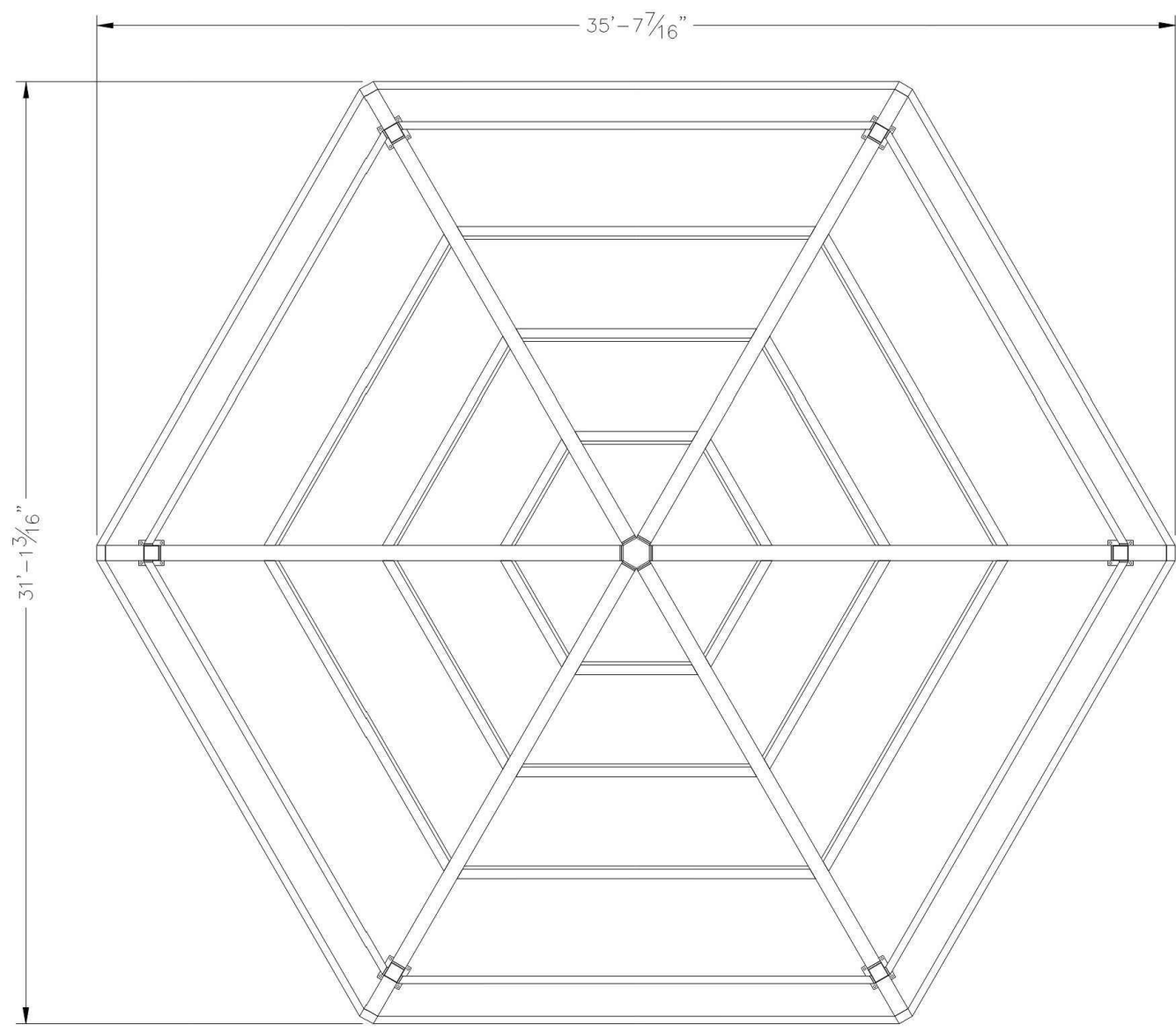
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CONTRA LOMA ESTATES PARK  
RENOVATION PROJECT  
**CONSTRUCTION DETAILS**  
**LC507**

SCALE:
PUBLIC WORKS PROJECT NO.
SHEET 26
OF 40 SHEETS

FILE LOCATION/NAME:





ALL STRUCTURAL COMPONENTS WILL BE:  
TUBE: ASTM A500 GRADE B  
PLATE: ASTM A36  
BOLTS: ASTM A325  
NUTS: ASTM A563  
WELDING: GMAW

NOTE:  
COLUMN SIZE: HSS 6x6x3/16

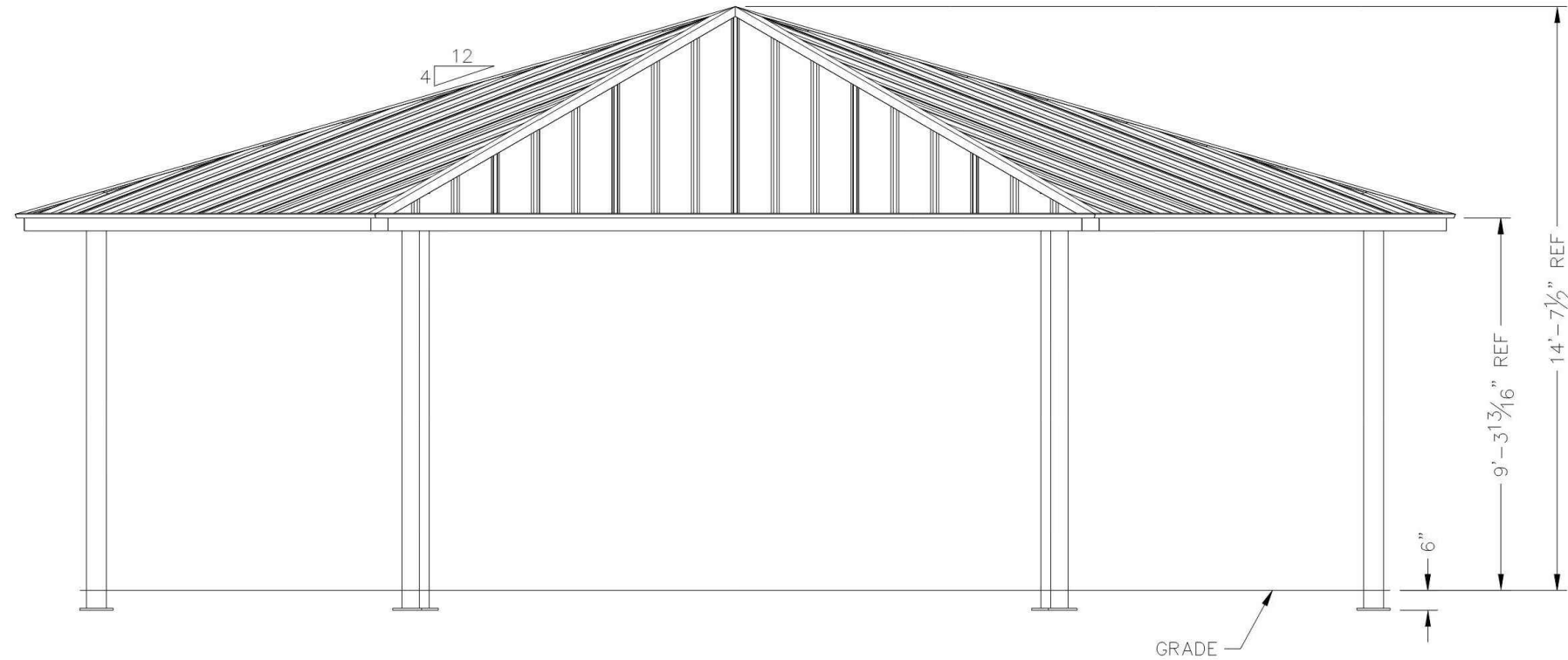
PRELIMINARY: NOT FOR  
CONSTRUCTION

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HOLLAND, MI 49423  
616.396.0919  
800.748.0985  
616.396.0944 FX

Frame

DRAWN BY:  
RGB  
DATE:  
11/12/2021  
JOB NO.:  
73235  
REVISION:  
  
BUILDING TYPE:  
HX35-9M-P4  
PROJECT NAME:  
  
SHEET  
3.0

DWG:Shelters\HX\_35\W-P4-35-150-150 Drawings\Preliminary\HX35M-P4-35-150-150-REVA-73235.dwg



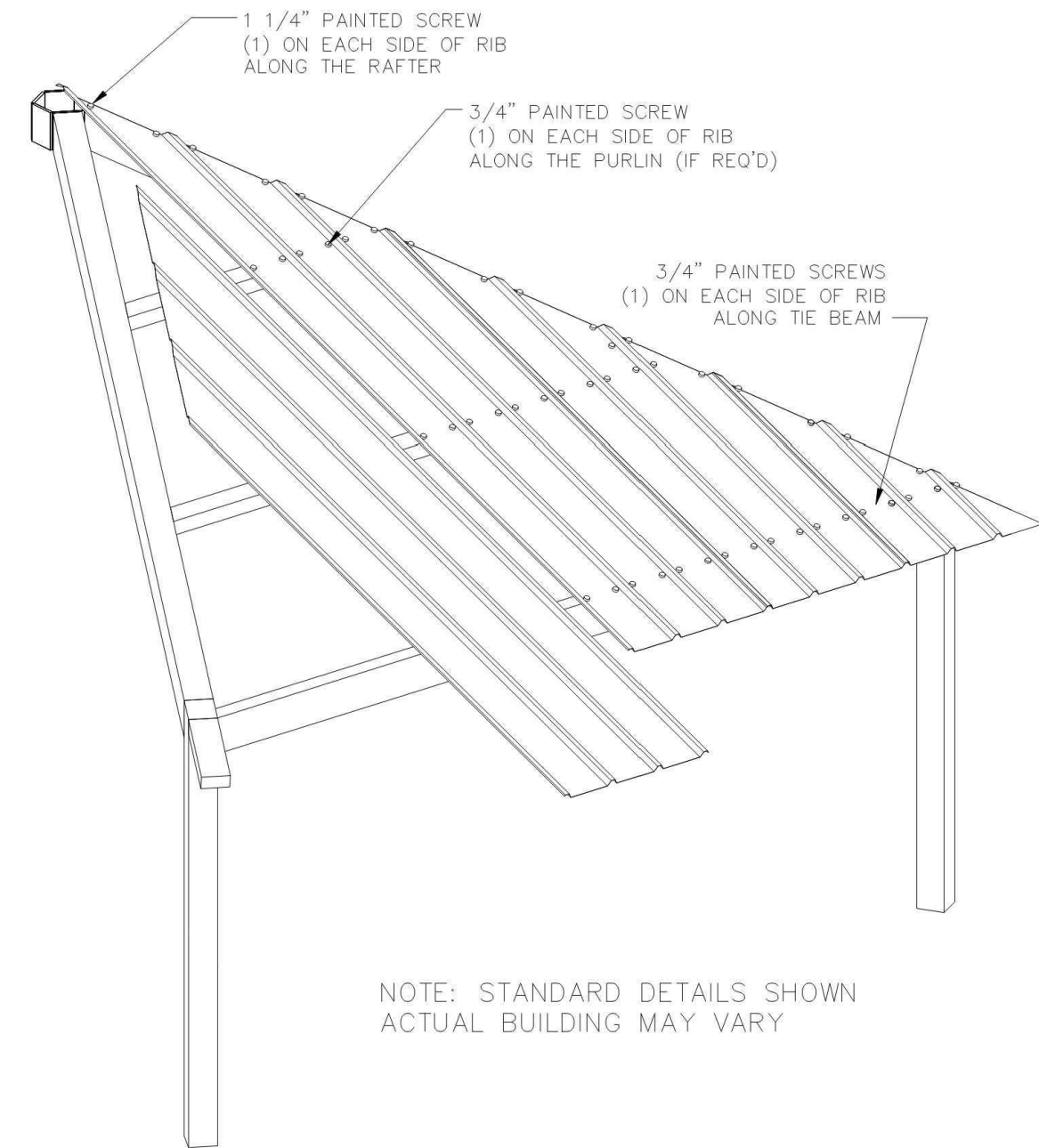
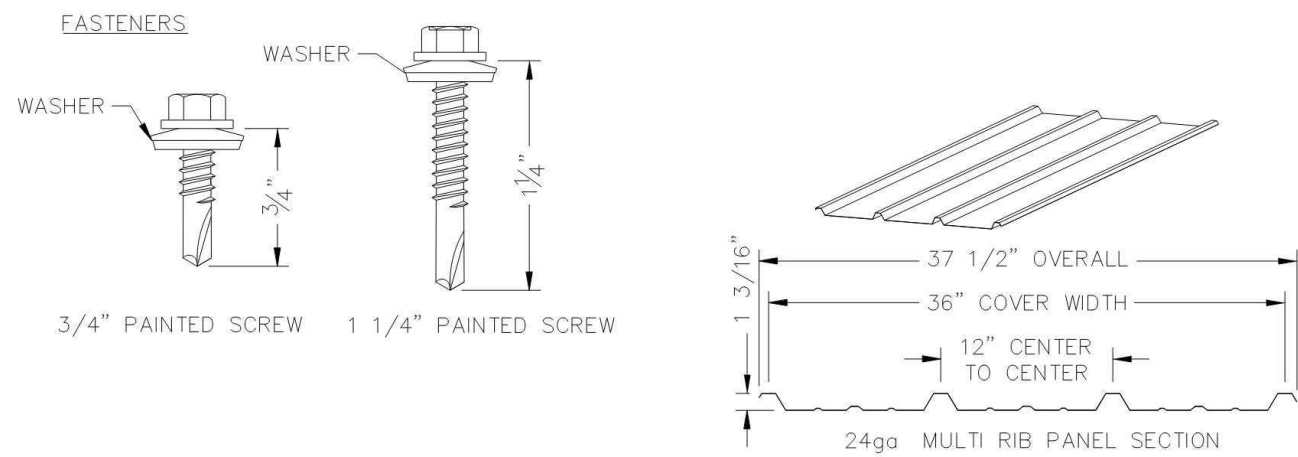
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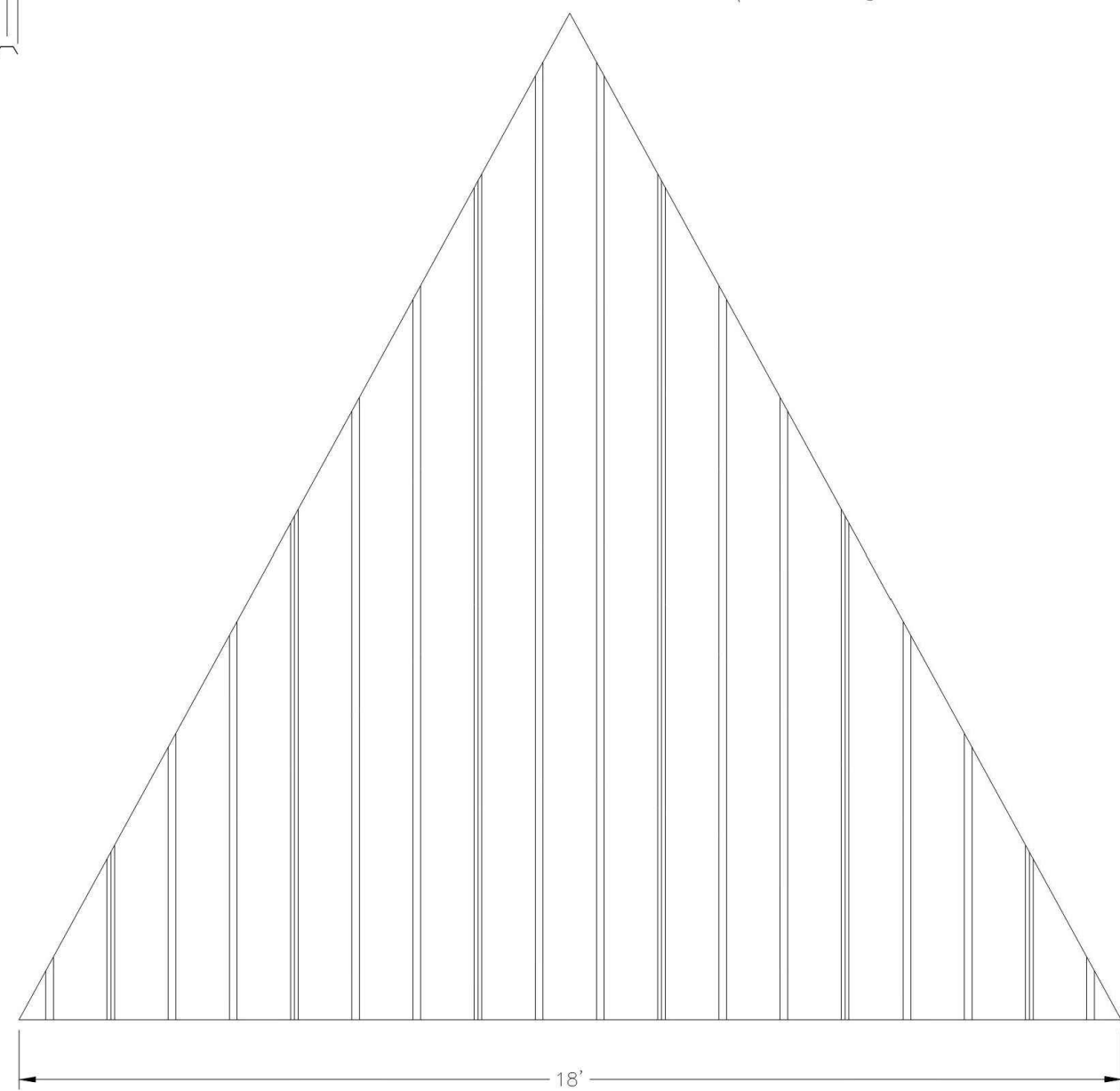
Elevation

DRAWN BY:  
RGB  
DATE:  
11/12/2021  
JOB NO.:  
73235  
REVISION:  
  
BUILDING TYPE:  
HX35-9M-P4  
PROJECT NAME:  
  
SHEET  
1.0

DWG:Shelters\HX\_35\W-P4-35-150-150 Drawings\Preliminary\HX35M-P4-35-150-150-REVA-73235.dwg



NOTE: STANDARD DETAILS SHOWN  
ACTUAL BUILDING MAY VARY



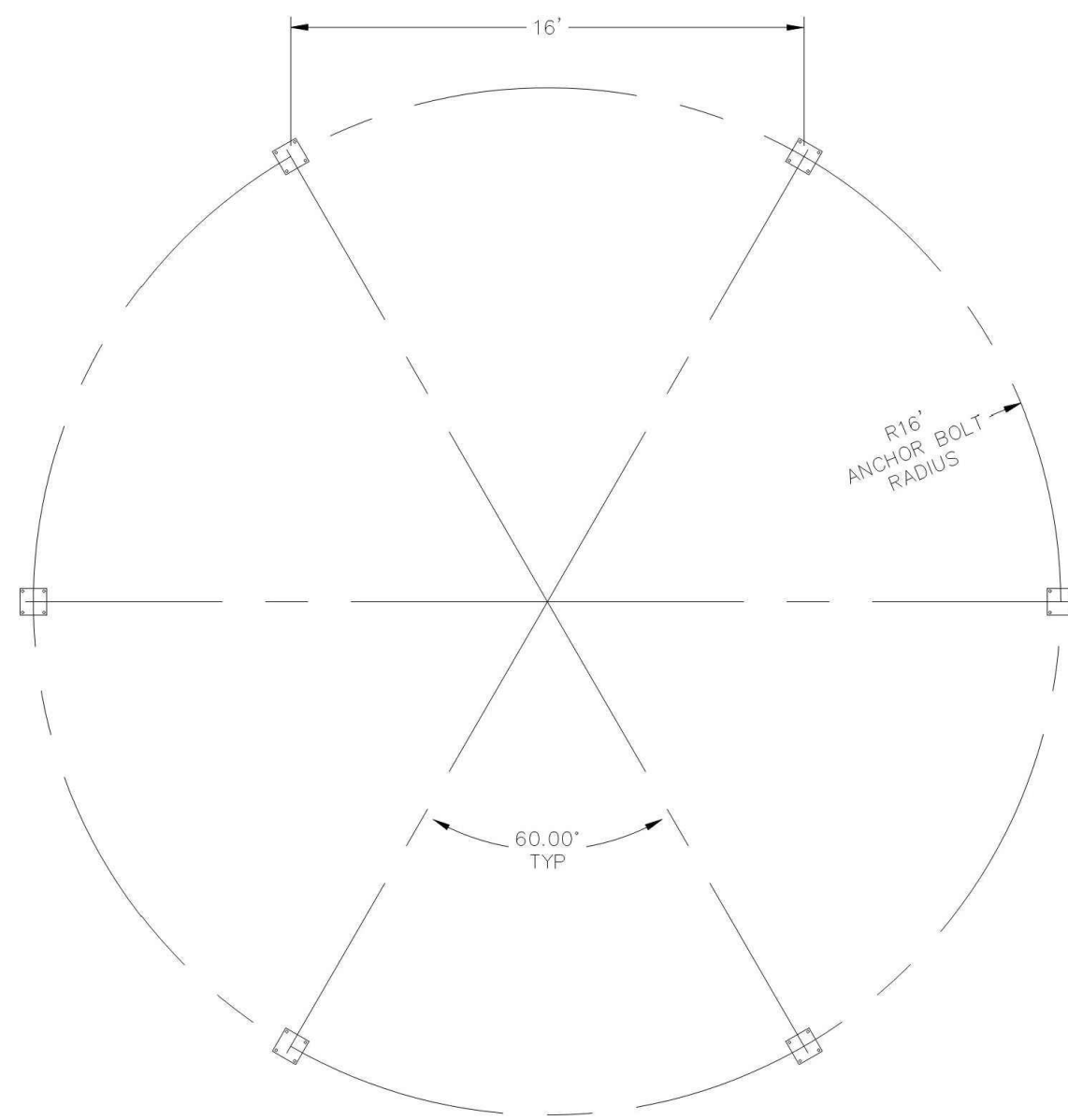
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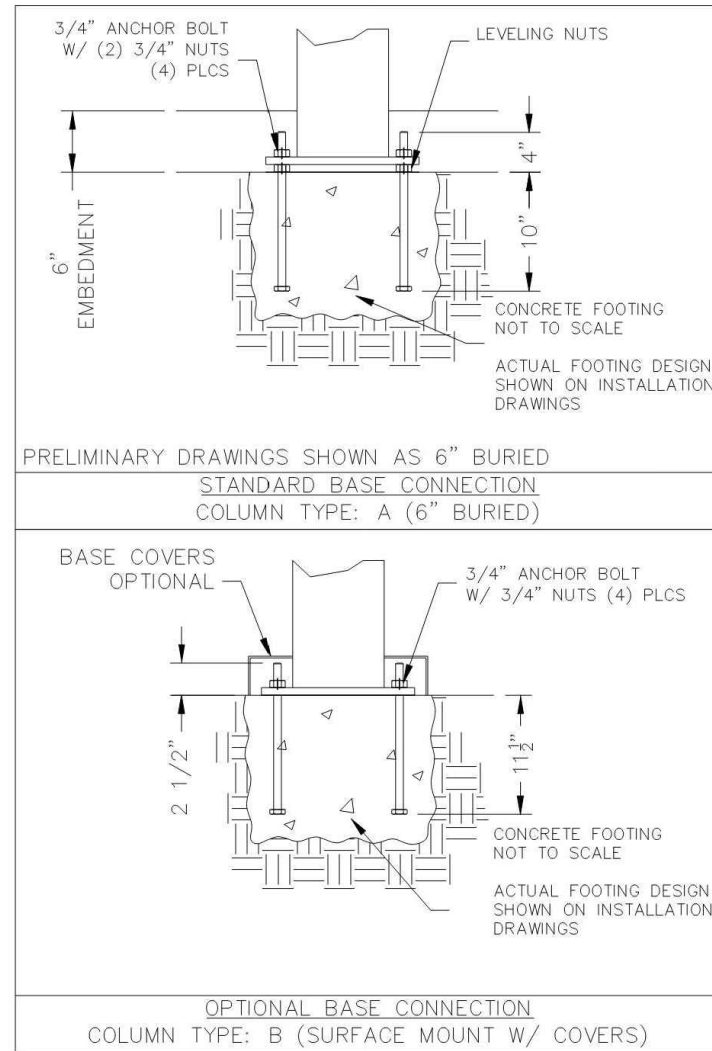
Roof Layout

DRAWN BY:  
RGB  
DATE:  
11/12/2021  
JOB NO.:  
73235  
REVISION:  
  
BUILDING TYPE:  
HX35-9M-P4  
PROJECT NAME:  
  
SHEET  
4.0

DWG:Shelters\HX\_35\W-P4-35-150-150 Drawings\Preliminary\HX35M-P4-35-150-150-REVA-73235.dwg



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Anchor Bolt Layout

DRAWN BY:  
RGB  
DATE:  
11/12/2021  
JOB NO.:  
73235  
REVISION:  
  
BUILDING TYPE:  
HX35-9M-P4  
PROJECT NAME:  
  
SHEET  
2.0

DWG:Shelters\HX\_35\W-P4-35-150-150 Drawings\Preliminary\HX35M-P4-35-150-150-REVA-73235.dwg

1 SHADE STRUCTURE 2 - HX36  
NTS



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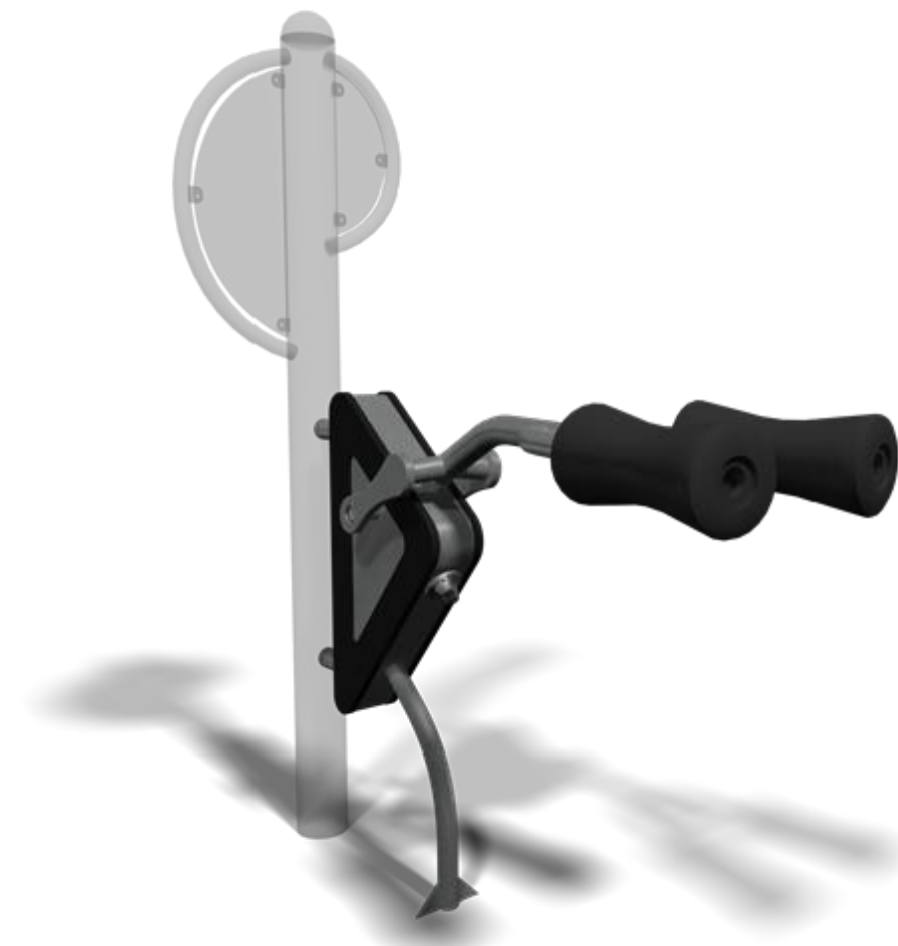
DATE: MARCH/25/2022	APPROVED BY:		
DESIGNED BY: JS	DIRECTOR OF PUBLIC WORKS/ CITY ENGINEER		
CHECKED BY: GC	DATE:	C.E.	
DRAWN BY: YI	NO.	BY	DATE
REVISIONS:			

PUBLIC WORKS DEPARTMENT  
CAPITAL IMPROVEMENTS DIVISION  
CONTRA LOMA ESTATES PARK  
RENOVATION PROJECT  
**CONSTRUCTION DETAILS  
LC508**

SCALE:  
PUBLIC WORKS  
PROJECT NO.  
  
SHEET 27  
  
OF 40 SHEETS



4 HEALTH BEAT - PARALLEL BARS  
NTS RRM-2186.01-114



1 HEALTH BEAT - SQUAT PRESS  
NTS RRM-2186.01-109



5 HEALTH BEAT - CHEST / BACK PRESS  
NTS RRM-2186.01-113



2 HEALTH BEAT - PULL-UP / DIP  
NTS RRM-2186.01-110



6 HEALTH BEAT - AB CRUNCH / LEG LIFT  
NTS RRM-2186.01-112



3 HEALTH BEAT - PLYOMETRICS  
NTS RRM-2186.01-111



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RENOVATION PROJECT  
**CONSTRUCTION DETAILS  
LC509**




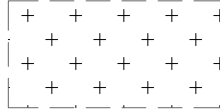
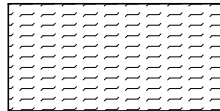
SCALE:  
PUBLIC WORKS  
PROJECT NO.  
SHEET 28  
OF 40 SHEETS










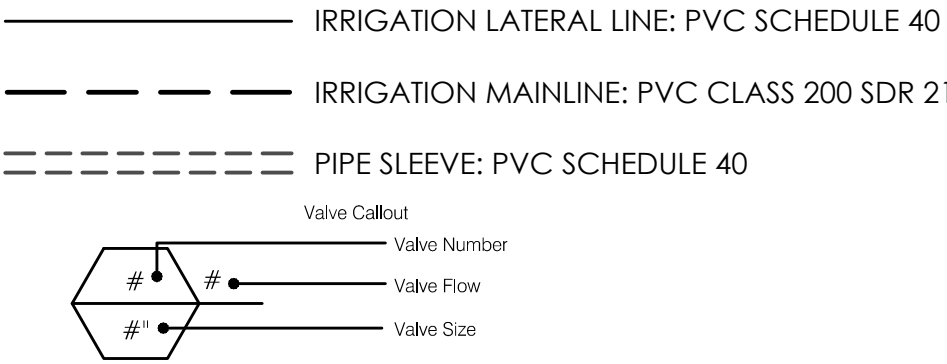
IRRIGATION SCHEDULE

SYMBOL	MANUFACTURER/MODEL	ARC	PSI	GPM	RADIUS	DETAIL
	HUNTER MP2000 PROS-04-PRS40-CV	210-270	40		19'	2 / LI501
	HUNTER MP2000 PROS-04-PRS40-CV	90-210	40		19'	2 / LI501
	HUNTER MP3000 PROS-04-PRS40-CV	360	40	3.64	30'	2 / LI501
	HUNTER MP3000 PROS-04-PRS40-CV	90-210	40		30'	2 / LI501
	HUNTER MP3000 PROS-04-PRS40-CV	210-270	40		30'	2 / LI501
	RAIN BIRD RWS-B-C-SOCK 1401	360	30	0.25	3'	4 / LI502

SYMBOL	MANUFACTURER/MODEL/DESCRIPTION	PSI	GPM	RADIUS	DETAIL
	HUNTER I-25-06-S5 TURF ROTOR, 6" POP-UP, ADJUSTABLE AND FULL CIRCLE. STAINLESS STEEL RISER. DRAIN CHECK VALVE. STANDARD NOZZLE.	50	4.30	41'	4 / LI502
	HUNTER I-25-06-S5 TURF ROTOR, 6" POP-UP, ADJUSTABLE AND FULL CIRCLE. STAINLESS STEEL RISER. DRAIN CHECK VALVE. STANDARD NOZZLE.	50	7.00	47"	4 / LI502

SYMBOL	MANUFACTURER/MODEL/DESCRIPTION	DETAIL
	RAIN BIRD XCZ-100-PRB-LC WIDE FLOW DRIP CONTROL KIT, FOR LIGHT COMMERCIAL USES. 1" PEB VALVE, WITH 1" PRESSURE REGULATING 40PSI BASKET FILTER. 0.3-20 GPM.	3 / LI502
	RAIN BIRD XCZ-150-LCDR HIGH FLOW CONTROL ZONE KIT, FOR LARGE COMMERCIAL DRIP ZONES. 1-1/2" PESB-R SCRUBBER GLOBE VALVE WITH SINGLE 1-1/2" PRESSURE REGULATING 40PSI QUICK-CHECK BASKET FILTERS. FLOW RANGE: 15-62 GPM.	3 / LI502
	PIPE TRANSITION POINT ABOVE GRADE PIPE TRANSITION POINT FROM PVC LATERAL TO DRIP TUBING WITH RISER TO ABOVE GRADE INSTALLATION.	
	AREA TO RECEIVE DRIP EMITTERS RAIN BIRD PC SINGLE OUTLET, PRESSURE COMPENSATING DRIP EMITTERS WITH SELF-PIERCING BARB INLET. FLOW RATE: 5 GPH=LIGHT BROWN; 7 GPH=VIOLET; 10 GPH=GREEN; 12 GPH=DARK BROWN; 18 GPH=WHITE; 24 GPH=ORANGE. Emitter Notes: PC-05 emitters (1 assigned to each 4" Pot plant) PC-05 emitters (2 assigned to each 1 gal plant) PC-05 emitters (2 assigned to each 1 gallon plant) PC-05 emitters (2 assigned to each 5 gal plant)	2 / LI502
	AREA TO RECEIVE DRIPLINE TORO RGP-412 SUB-SURFACE PRESSURE COMPENSATING LANDSCAPE DRIPLINE WITH ROOTGUARD TECHNOLOGY. 1.00 GPH EMITTERS AT 12" O.C. DRIPLINE LATERALS SPACED AT 12" APART, WITH EMITTERS OFFSET FOR TRIANGULAR PATTERN.	5 / LI502

SYMBOL	MANUFACTURER/MODEL/DESCRIPTION	DETAIL
	RAIN BIRD EFB-CP-PRS-D 1", 1-1/2", 2" BRASS REMOTE CONTROL VALVE. THAT IS CONTAMINATION PROOF W/SELF-FLUSHING FILTER SCREEN. GLOBE CONFIGURATION, RECLAIMED WATER COMPATIBLE, AND PURPLE HANDLE COVER DESIGNATES NON-POTABLE WATER USE.	5 / LI501
	TORO 100-SLVLC ONE-PIECE, 1" SINGLE LUG QUICK COUPLER VALVE WITH VINYL LOCKING COVER.	3 / LI501
	NIBCO T-113-K CLASS 125 BRONZE GATE SHUT OFF VALVE WITH CROSS HANDLE. SAME SIZE AS MAINLINE PIPE DIAMETER AT VALVE LOCATION. SIZE RANGE - 1/4" - 3"	6 / LI501 7 / LI501
	GRISWOLD 2250N 3" 3" PRESSURE REDUCING, SURGE ANTICIPATION, NORMALLY CLOSED MASTER VALVE. LIGHTNING PROTECTED. CAST IRON AND BRONZE MATERIAL. NPT END CONNECTION. LOW POWER SOLENOID.	4 / LI501
	RAIN MASTER CONTROLLER EVOLUTION DX-3	1 / LI501
	CREATIVE SENSOR TECHNOLOGY FSI-T20-001 2" (50MM) PVC TEE TYPE FLOW SENSOR W/SOCKET ENDS, CUSTOM MOUNTING TEE AND ULTRA-LIGHTWEIGHT IMPELLER ENHANCES LOW FLOW MEASUREMENT. 2 WIRE DIGITAL OUTPUT COMPATIBLE W/ALL IRRIGATION CONTROLLERS. FLOW RANGE 2.8-170 GPM.	
	POINT OF CONNECTION 3" CITY TO CONFIRM POC AND PRESSURE	



VALVE SCHEDULE

NUMBER	MODEL	SIZE	TYPE	GPM	WIRE	PSI	PSI @ POC	PRECIP
1	RAIN BIRD XCZ-150-LCDR	1-1/2"	AREA FOR DRIPLINE	21.13	159.8	38.75	40.62	1.61 in/h
2	RAIN BIRD EFB-CP-PRS-D	2"	TURF ROTOR	38.70	154.6	56.53	58.4	0.26 in/h
3	RAIN BIRD EFB-CP-PRS-D	2"	TURF ROTOR	34.40	149.0	54.31	56.16	0.55 in/h
4	RAIN BIRD XCZ-150-LCDR	1-1/2"	AREA FOR DRIP EMITTERS	23.88	150.0	38.42	40.27	5.07 in/h
5	RAIN BIRD XCZ-100-PRB-LC	1"	AREA FOR DRIPLINE	14.51	154.8	49.54	51.39	1.61 in/h
6	RAIN BIRD XCZ-100-PRB-LC	1"	BUBBLER	1.50	160.0	31.96	33.81	1.06 in/h
7	RAIN BIRD XCZ-100-PRB-LC	1"	AREA FOR DRIP EMITTERS	5.67	557.4	35.94	38.23	4.21 in/h
8	RAIN BIRD EFB-CP-PRS-D	2"	TURF ROTOR	42.00	552.8	54.67	56.96	0.44 in/h
9	RAIN BIRD EFB-CP-PRS-D	2"	TURF ROTOR	34.40	547.3	54.74	57.01	0.66 in/h
10	RAIN BIRD XCZ-100-PRB-LC	1"	BUBBLER	9.00	541.3	42.63	44.88	0.86 in/h
11	RAIN BIRD XCZ-150-LCDR	1-1/2"	AREA FOR DRIPLINE	24.48	536.1	38.32	40.54	1.61 in/h
12	RAIN BIRD XCZ-100-PRB-LC	1"	AREA FOR DRIP EMITTERS	6.80	530.2	40.33	42.51	2.17 in/h
13	RAIN BIRD EFB-CP-PRS-D	2"	TURF ROTOR	49.00	401.8	55.02	57.26	0.35 in/h
14	RAIN BIRD EFB-CP-PRS-D	2"	TURF ROTOR	34.40	396.5	54.67	56.89	0.68 in/h
15	RAIN BIRD XCZ-150-LCDR	1-1/2"	AREA FOR DRIPLINE	21.01	391.0	35.83	38.03	1.61 in/h
16	RAIN BIRD XCZ-150-LCDR	1-1/2"	AREA FOR DRIPLINE	18.04	385.9	33.3	35.47	1.61 in/h
17	RAIN BIRD EFB-CP-PRS-D	1"	TURF ROTARY	19.01	275.6	44.24	46.29	0.22 in/h
18	RAIN BIRD EFB-CP-PRS-D	1-1/2"	TURF ROTARY	21.84	269.9	43.09	45.14	0.25 in/h
19	RAIN BIRD EFB-CP-PRS-D	1"	TURF ROTARY	4.38	265.3	40.93	42.98	0.12 in/h
20	RAIN BIRD XCZ-100-PRB-LC	1"	AREA FOR DRIPLINE	13.38	258.7	47.13	49.17	1.61 in/h
21	RAIN BIRD XCZ-150-LCDR	1-1/2"	AREA FOR DRIPLINE	16.27	261.9	33.53	35.56	1.61 in/h
22	RAIN BIRD XCZ-150-LCDR	1-1/2"	AREA FOR DRIPLINE	21.73	276.5	38.21	39.98	1.61 in/h
23	RAIN BIRD EFB-CP-PRS-D	1"	TURF ROTARY	2.71	270.5	40.71	42.48	0.16 in/h
24	RAIN BIRD EFB-CP-PRS-D	1"	TURF ROTARY	11.03	264.5	43.46	45.23	0.33 in/h
25	RAIN BIRD XCZ-100-PRB-LC	1"	AREA FOR DRIPLINE	4.78	112.4	34.83	36.37	1.61 in/h
26	RAIN BIRD XCZ-100-PRB-LC	1"	AREA FOR DRIP EMITTERS	10.01	108.5	39.05	40.59	3.55 in/h
27	RAIN BIRD XCZ-150-LCDR	1-1/2"	AREA FOR DRIPLINE	25.72	104.4	36.44	37.98	1.61 in/h
28	RAIN BIRD XCZ-150-LCDR	1-1/2"	AREA FOR DRIPLINE	24.57	100.2	36.02	37.56	1.61 in/h
29	RAIN BIRD XCZ-150-LCDR	1-1/2"	AREA FOR DRIPLINE	22.11	104.4	36.12	37.67	1.61 in/h
	Common Wire				1,533			

CRITICAL ANALYSIS

Generated:	2022-01-11 10:31
P.O.C. NUMBER: 01	
Water Source Information:	Existing 3" meter and backflow
FLOW AVAILABLE	
Point of Connection Size:	3"
Flow Available	253.02 GPM
PRESSURE AVAILABLE	
Static Pressure at POC:	81.00 PSI
Pressure Available:	81.00 psi
DESIGN ANALYSIS	
Maximum Multi-valve Flow:	75 GPM
Flow Available at POC:	253.02 GPM
Residual Flow Available:	178.02 GPM
Critical Station:	2
Design Pressure:	50 PSI
Friction Loss:	5.23 PSI
Fittings Loss:	0.52 PSI
Elevation Loss:	0 PSI
Loss through Valve:	0.77 PSI
Pressure Req. at Critical Station:	56.53 PSI
Loss for Fittings:	0.06 PSI
Loss for Main Line:	0.61 PSI
Loss for POC to Valve Elevation:	0 PSI
Loss for Backflow:	0 PSI
Loss for Master Valve:	1.2 PSI
Critical Station Pressure at POC:	58.4 PSI
Pressure Available:	81 PSI
Residual Pressure Available:	22.6 PSI

GENERAL IRRIGATION NOTES

- A. IRRIGATION PLAN IS DIAGRAMMATIC. CONTRACTOR SHALL DETERMINE FINAL LOCATION OF PIPING AT THE TIME OF INSTALLATION. MAINLINE AND LATERALS SHALL BE PLACED IN THE SAME TRENCH WHEN POSSIBLE. ALL Q.C. VALVES ARE TO BE LOCATED 12" FROM SIDEWALKS, CURBS, ASPHALT & CONCRETE SURFACES.
- B. ALL EQUIPMENT REQUIRED BUT NOT SPECIFIED ON THE DRAWING TO COMPLETE THE WORK SHALL BE PROVIDED BY THE IRRIGATION CONTRACTOR AT NO EXTRA COST TO THE CITY.
- C. INSTALL ALL EQUIPMENT IN ACCORDANCE WITH MANUFACTURER'S INSTRUCTIONS AND SPECIFICATIONS.
- D. WORK SHALL BE DONE IN ACCORDANCE WITH THIS SET OF CONSTRUCTION DOCUMENTS.
- E. CONTRACTOR SHALL BECOME THOROUGHLY FAMILIAR WITH THE PLANS AND SITE CONDITIONS PRIOR TO BEGINNING WORK. SHOULD CONFLICTING INFORMATION BE FOUND ON THE PLANS, THE CONTRACTOR SHALL NOTIFY THE PROJECT LANDSCAPE ARCHITECT BEFORE PROCEEDING WITH THE WORK IN QUESTION.
- F. DO NOT WILLFULLY INSTALL THE IRRIGATION SYSTEM AS SHOWN ON THE DRAWINGS WHEN IT IS OBVIOUS IN THE FIELD THAT OBSTRUCTIONS, GRADE DIFFERENCES OR DIFFERENCES IN THE AREA DIMENSIONS EXIST THAT MIGHT NOT HAVE BEEN CONSIDERED IN THE ENGINEERING. SUCH OBSTRUCTIONS OR DIFFERENCES SHOULD BE BROUGHT TO THE ATTENTION OF THE LANDSCAPE ARCHITECT. IN THE EVENT THIS NOTIFICATION IS NOT PERFORMED, THE CONTRACTOR SHALL ASSUME FULL RESPONSIBILITY FOR ANY REVISIONS NECESSARY AT NO EXPENSE TO THE CITY.
- G. CONTRACTOR SHALL SLEEVE UNDER PAVING PER PLANS AND SPECIFICATIONS. ALL SLEEVES UNDER PAVING SHALL RECEIVE IDENTIFYING MARK ON TOP OF CONCRETE - ETCHED OR GROOVED INTO CONCRETE EDGE. EXTEND ALL SLEEVES 18" BEYOND EDGE OF PAVING. AT EACH LOCATION, ADD A SPARE 2-INCH SCHEDULE 40 PVC SLEEVE WITH UNGLUED SxS PVC CAP ON EACH END.
- H. SPLICING OF 24 VOLT WIRES WILL NOT BE PERMITTED EXCEPT IN VALVE BOXES. LEAVE A 24" COIL OF EXCESS WIRE AT EACH SPLICE. LABEL ALL WIRES W/ WATERPROOF MARKERS AT ALL SPLICES AND VALVE MANIFOLDS.
- I. ALL EXISTING UTILITIES, WATER LINES AND FIRE HYDRANTS SHALL REMAIN CONNECTED AND IN FULL CONTINUOUS OPERATION DURING AND FOLLOWING ALL CONTRACT WORK.
- J. LOCATE ALL VALVES OUTSIDE OF TURF AREAS.
- K. CONTRACTOR SHALL MAKE ALL NECESSARY ADJUSTMENTS TO THE IRRIGATION SYSTEM FOLLOWING A PRECIPITATION TEST PER THE CITY. ADJUSTMENTS SHALL INCLUDE BUT WILL NOT BE LIMITED TO: HEAD RELOCATION, CHANGING NOZZLES, AND ADJUSTING ARC PATTERNS TO ATTAIN 65% EFFICIENT UNIFORMITY AS REQUIRED BY THE CITY.
- L. CONTRACTOR SHALL NOT INSTALL ANY PLANTING UNTIL THE FOLLOWING ARE COMPLETED:
1. THE IRRIGATION SYSTEM IS FULLY OPERATIONAL.
  2. HYDROSTATIC PRESSURE TESTS HAVE BEEN PERFORMED ON MAIN AND LATERAL LINES.
  3. ALL ZONES HAVE PASSED A COVERAGE TEST.
  4. CONTROLLER(S) ARE FULLY OPERATIONAL.
- M. EXISTING IRRIGATION SYSTEM OUTSIDE THE PROJECT LIMITS SHALL REMAIN OPERATIONAL DURING CONSTRUCTION.



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DATE ACCEPTED: \_\_\_\_\_

INSPECTED BY: \_\_\_\_\_

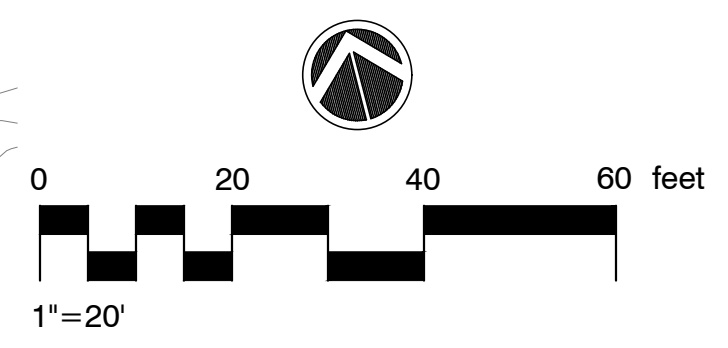
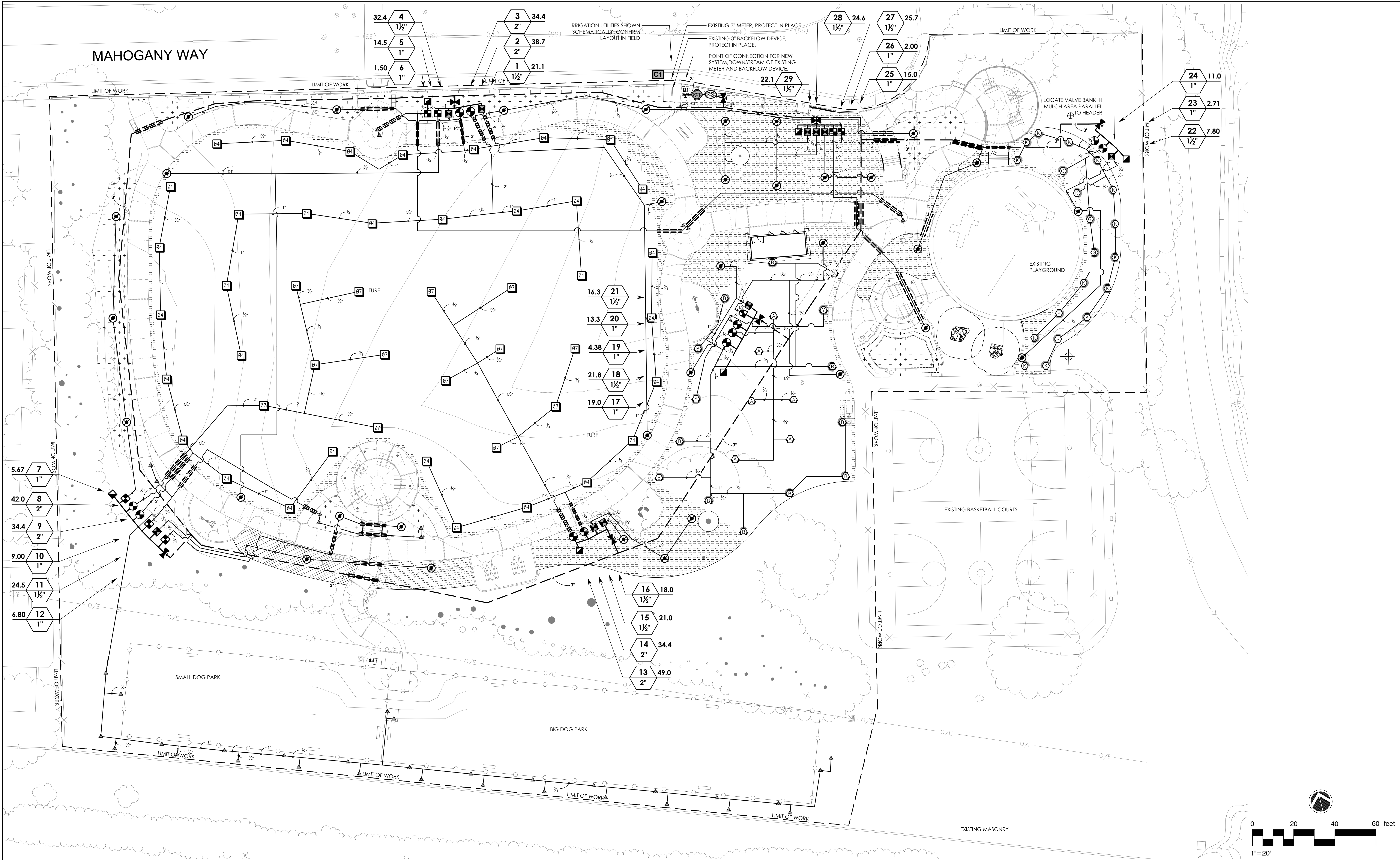
AS BUILT REVISIONS:

DATE: \_\_\_\_\_

BY: \_\_\_\_\_

DATE: MARCH/25/2022	APPROVED BY:		
DESIGNED BY: JS			
CHECKED BY: GC	DIRECTOR OF PUBLIC WORKS/		
DRAWN BY: YI	CITY ENGINEER		
REVISIONS:	NO.	BY	DATE

PUBLIC WORKS DEPARTMENT CAPITAL IMPROVEMENTS DIVISION		SCALE: PUBLIC WORKS PROJECT NO.
CONTRA LOMA ESTATES PARK RENOVATION PROJECT		SHEET <u>29</u>
<b>IRRIGATION SCHEDULE AND NOTES</b> <b>LI001</b>		OF <u>40</u> SHEETS



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DATE: \_\_\_\_\_  
BY: \_\_\_\_\_

DATE: MARCH/25/2022	APPROVED BY:		
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REVISIONS:			

PUBLIC WORKS DEPARTMENT  
CAPITAL IMPROVEMENTS DIVISION

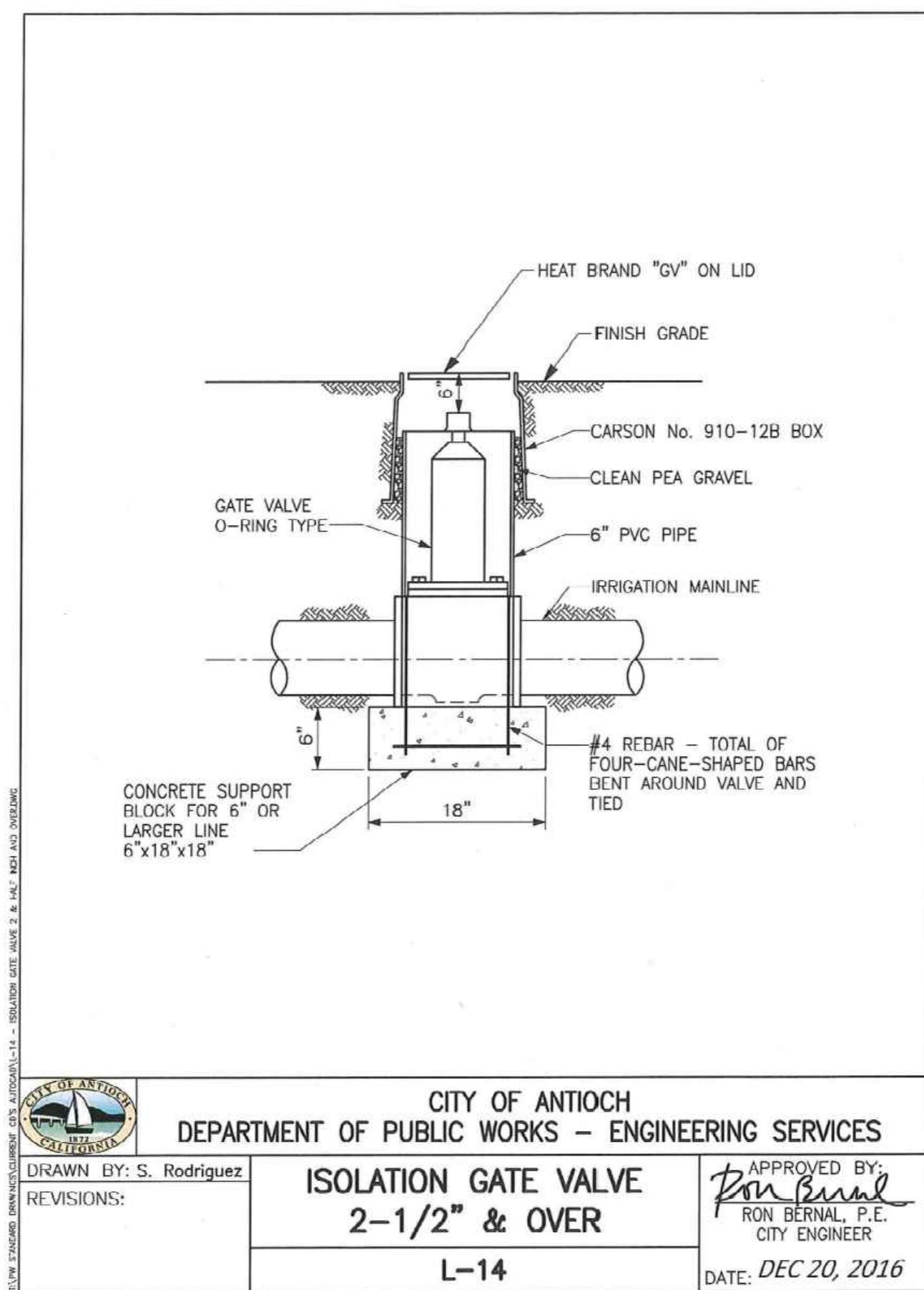
CONTRA LOMA ESTATES PARK  
RENOVATION PROJECT  
**IRRIGATION PLAN  
LI101**

SCALE: 1:20  
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PROJECT NO.

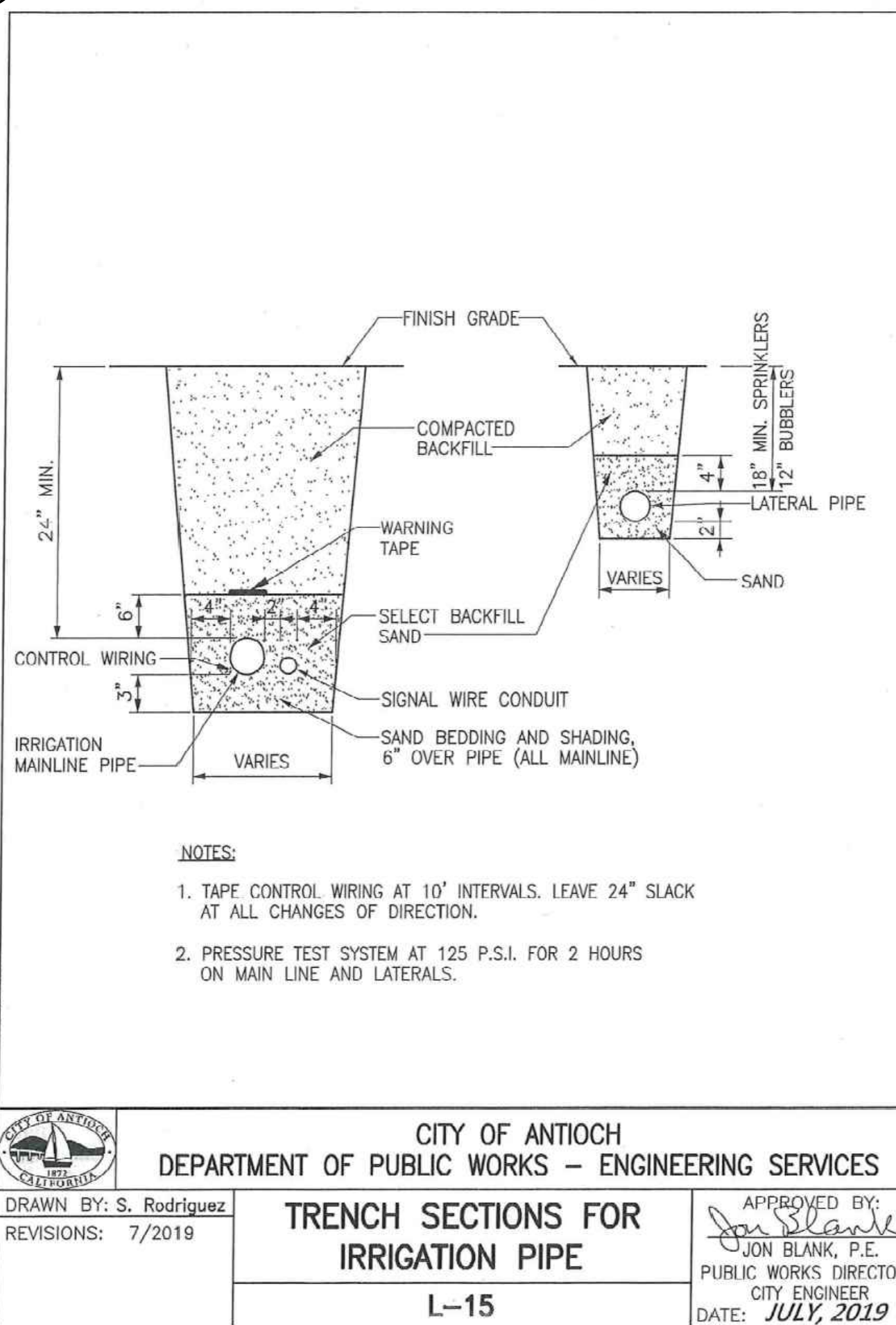
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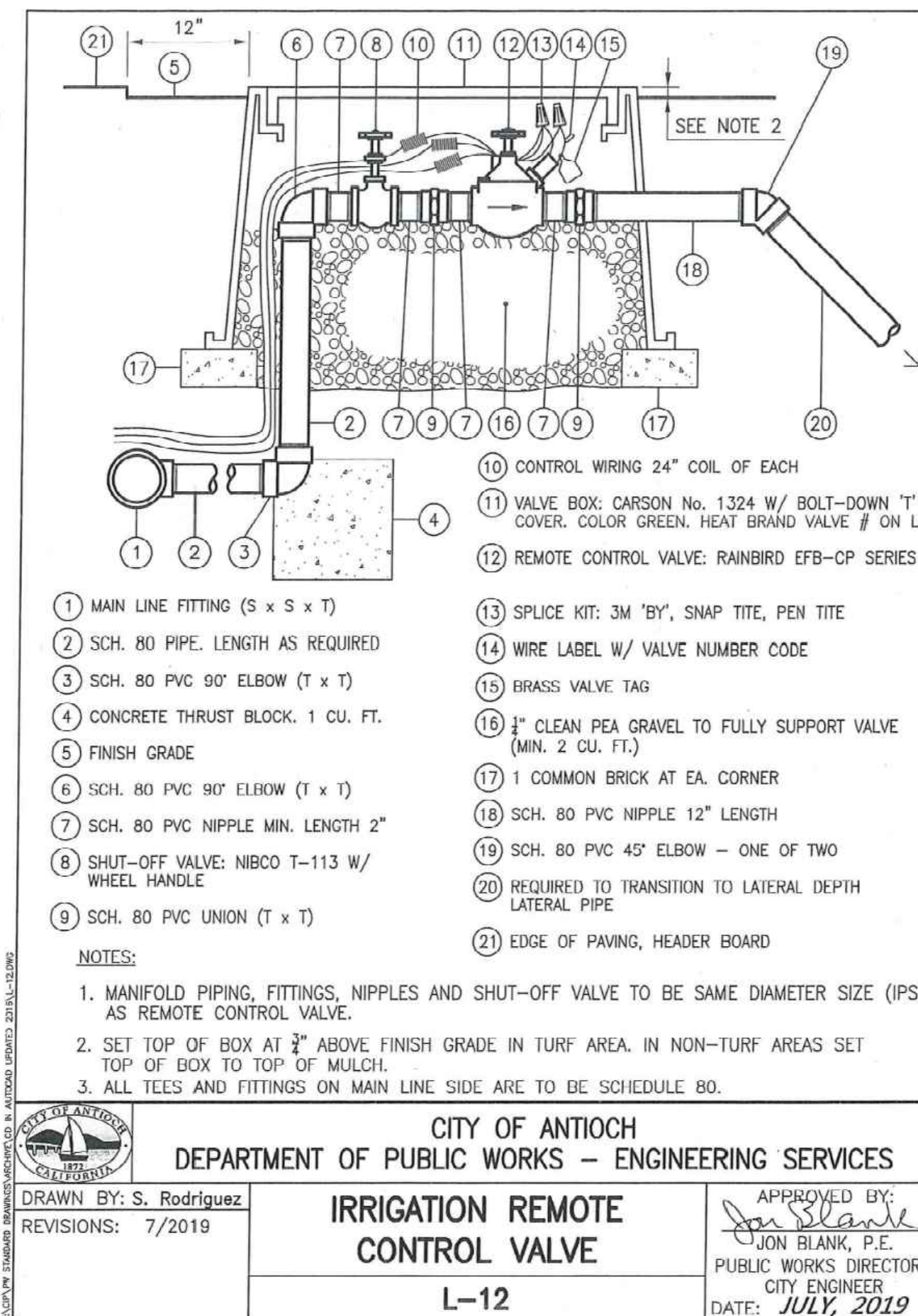




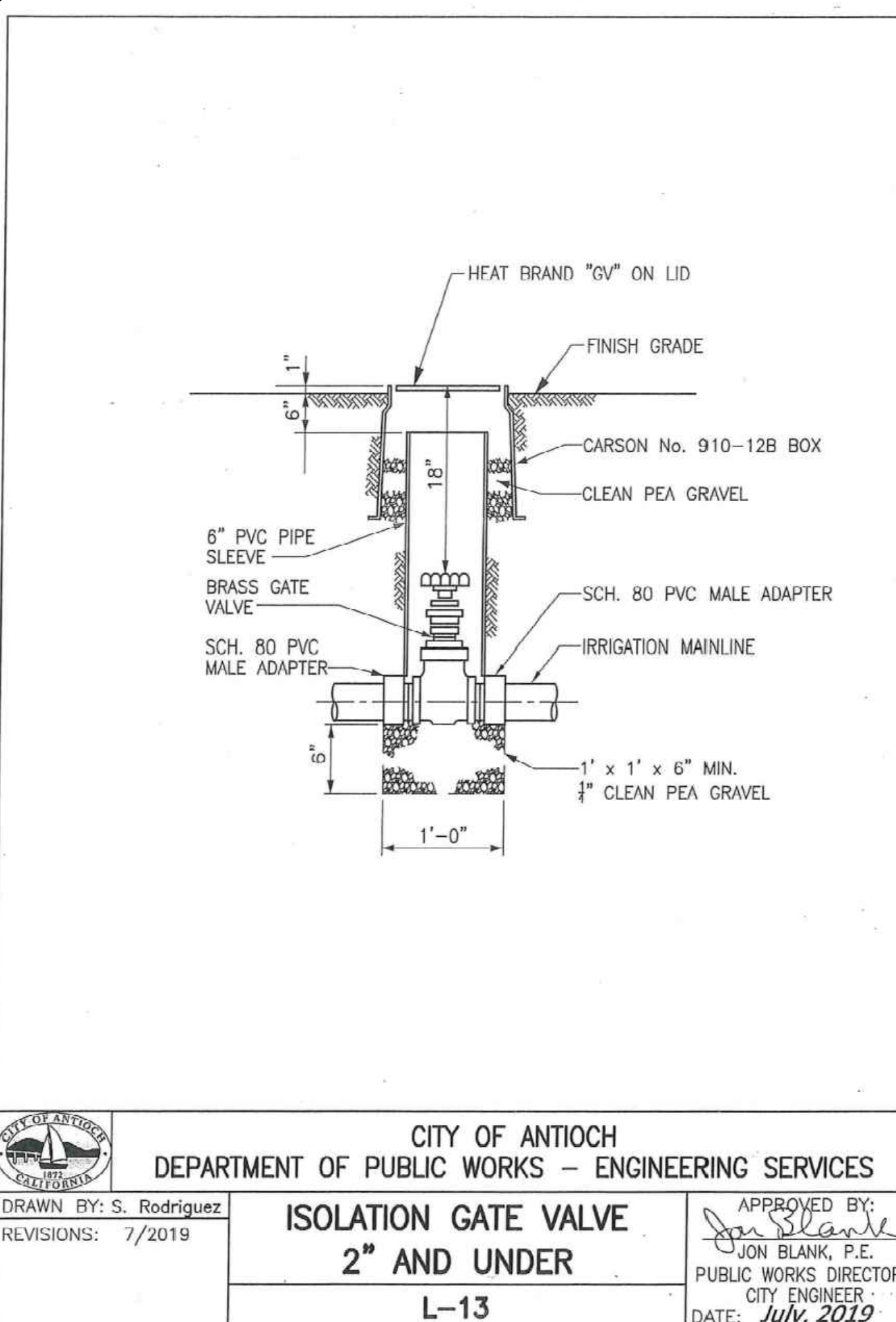
7 ISOLATION GATE VALVE 2-1/2" AND OVER  
NTS



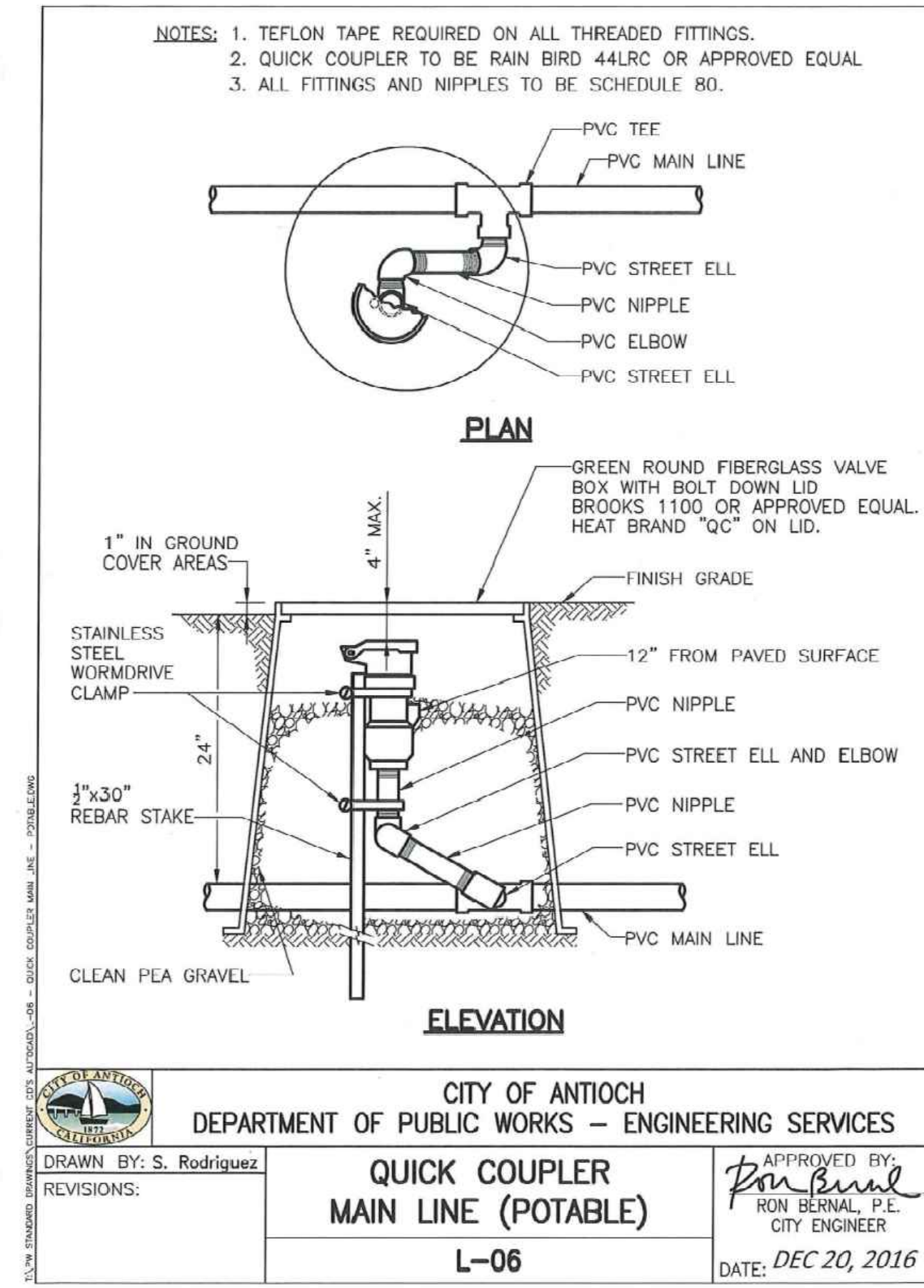
8 TRENCH SECTIONS FOR ITIGATION PIPE  
NTS



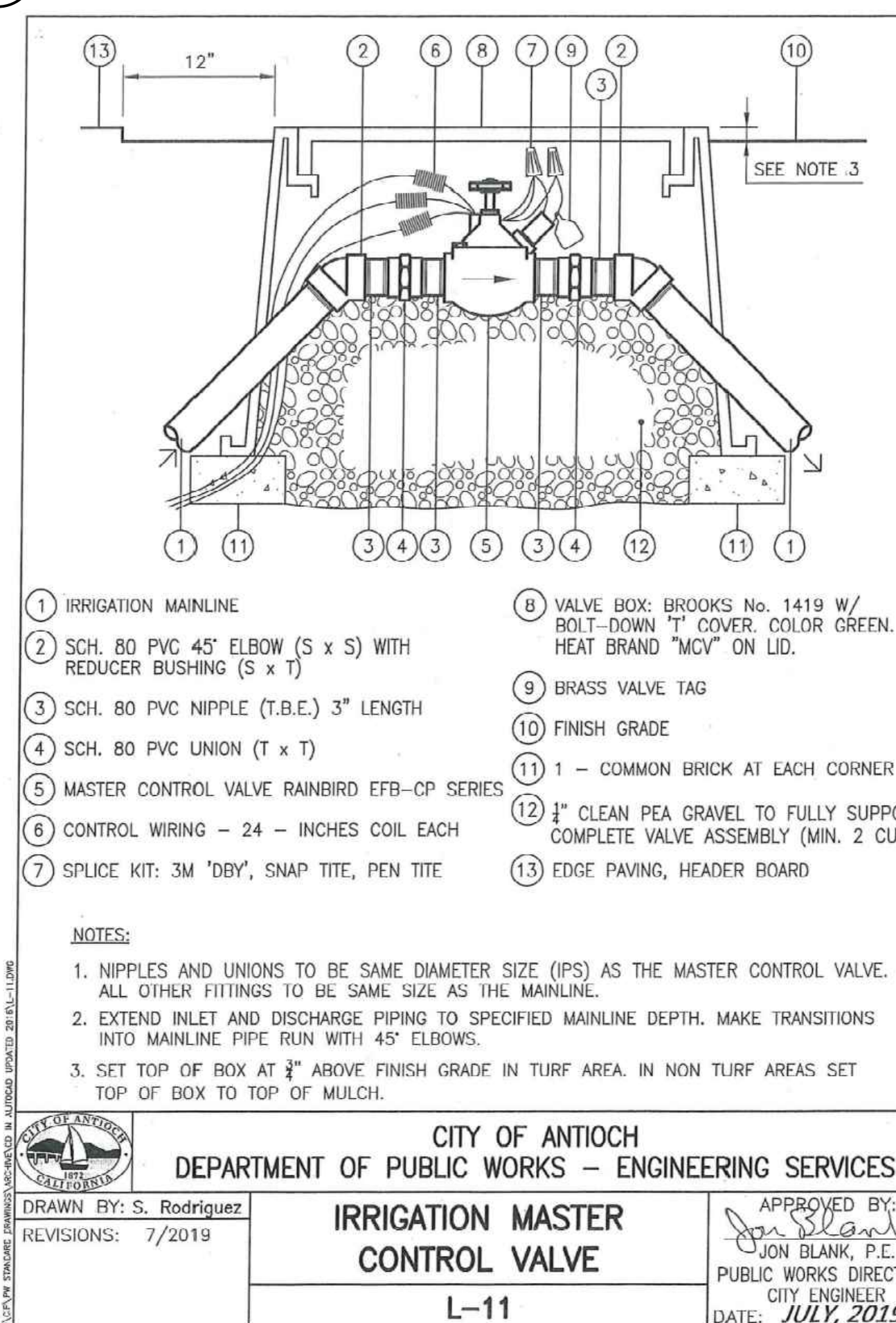
5 IRRIGATION REMOTE CONTROL VALVE  
NTS



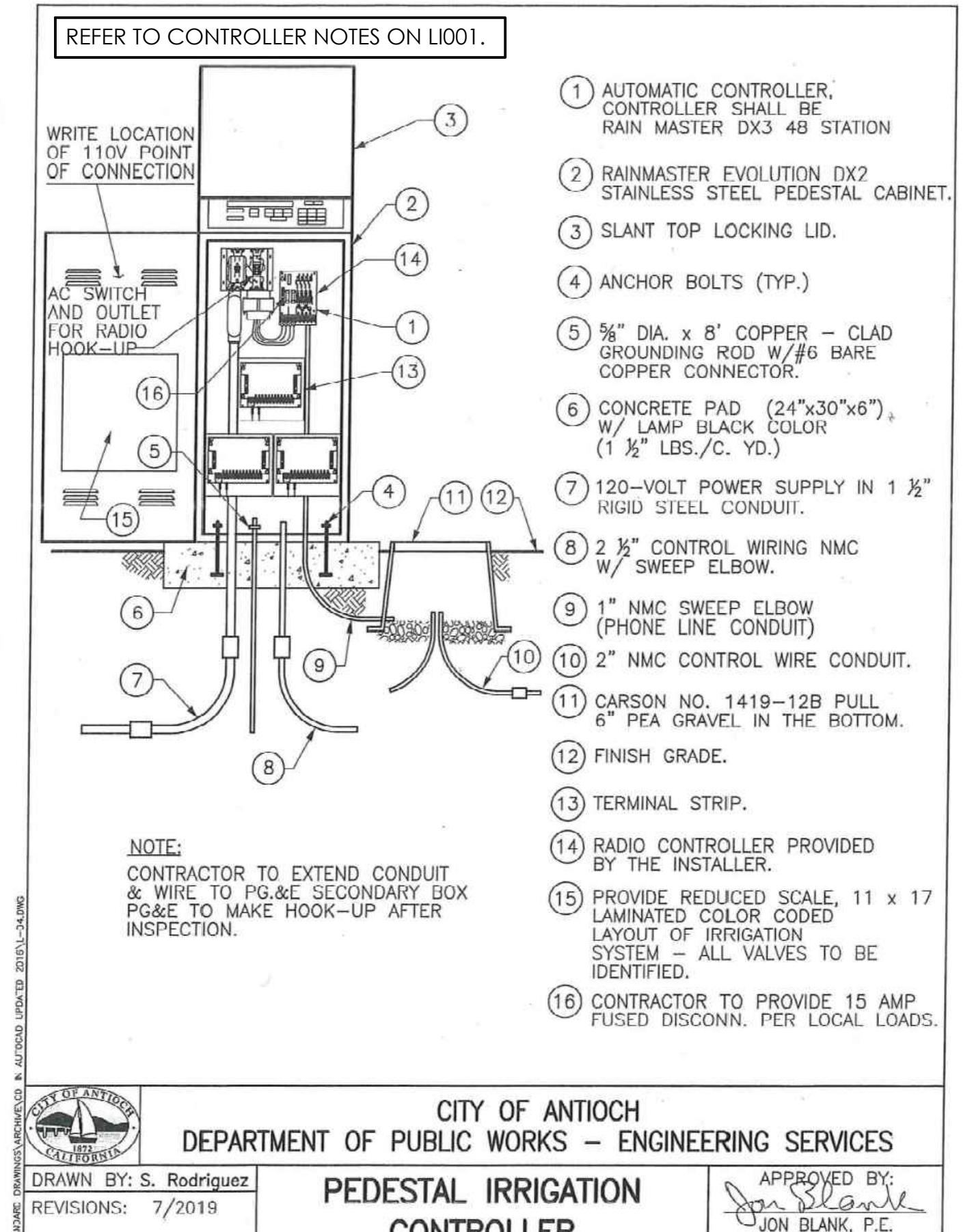
6 ISOLATION GATE VALVE 2" AND UNDER  
NTS



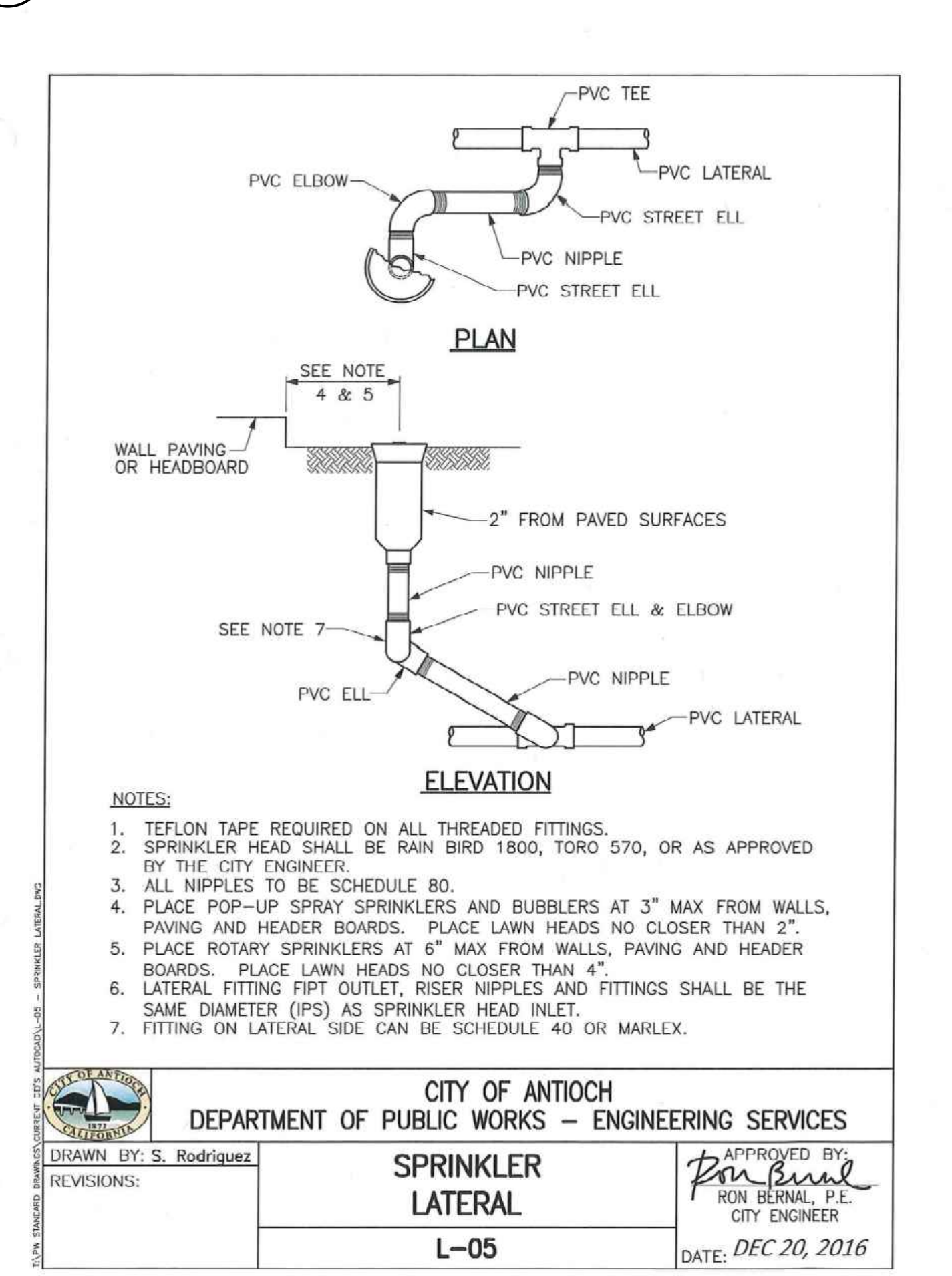
3 QUICK RELEASE COUPLER MAIN LINE (POTABLE)  
NTS



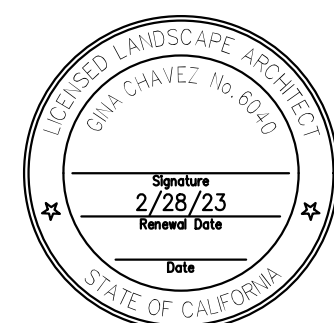
4 IRRIGATION MASTER CONTROL VALVE  
NTS



1 PEDESTAL IRRIGATION CONTROLLER  
NTS



2 SPRINKLER LATERAL  
NTS



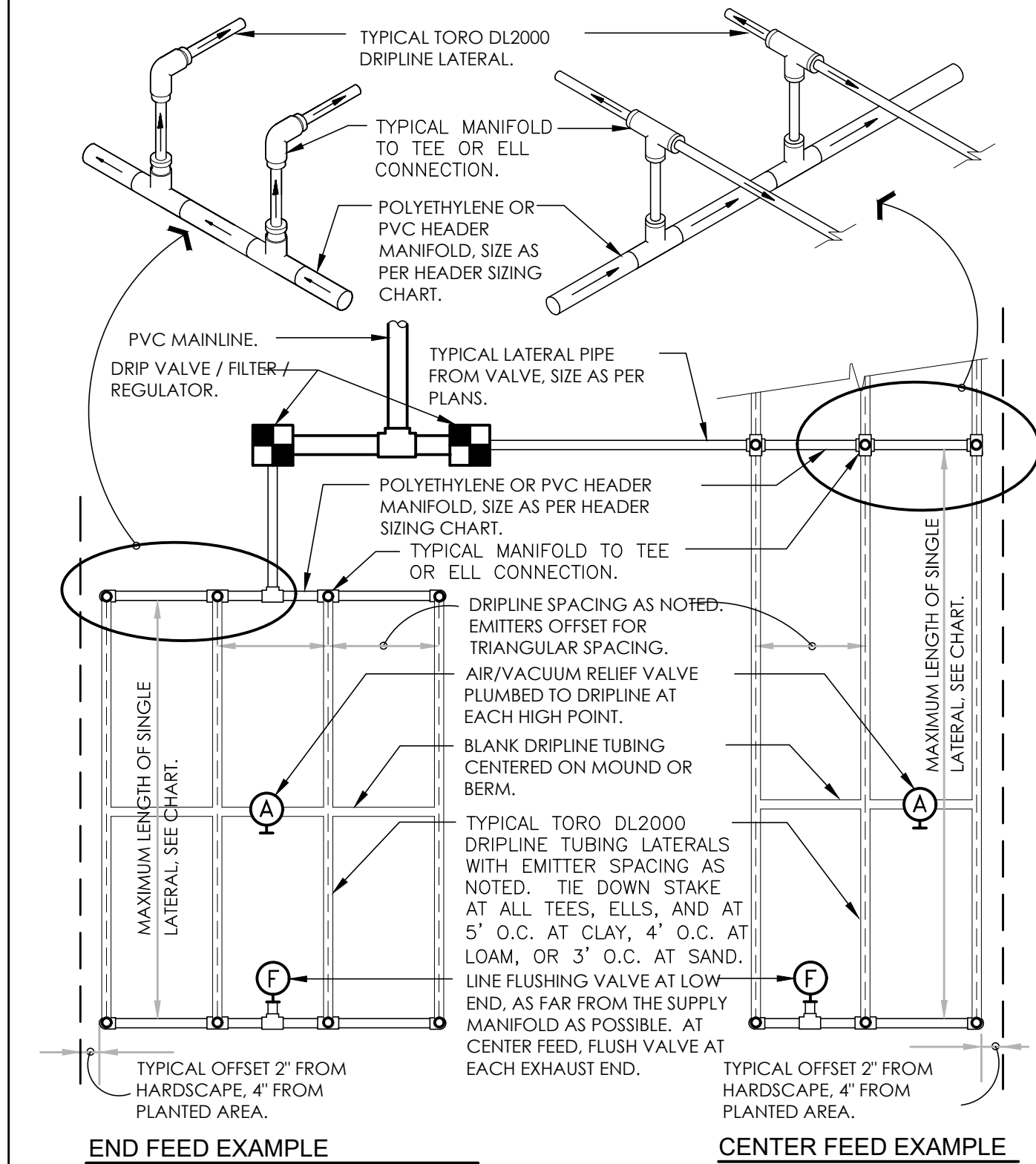
90% CDs  
DATE ACCEPTED: \_\_\_\_\_  
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AS BUILT REVISIONS: \_\_\_\_\_  
DATE: \_\_\_\_\_  
BY: \_\_\_\_\_

DATE: MARCH/25/2022	APPROVED BY:
DESIGNED BY: JS	DIRECTOR OF PUBLIC WORKS/ CITY ENGINEER
CHECKED BY: GC	DATE: C.E.
DRAWN BY: YI	NO. BY DATE
REVISIONS:	

PUBLIC WORKS DEPARTMENT  
CAPITAL IMPROVEMENTS DIVISION  
CONTRA LOMA ESTATES PARK  
RENOVATION PROJECT  
**IRRIGATION DETAILS**  
**LI501**

SCALE:  
PUBLIC WORKS  
PROJECT NO.  
SHEET 31  
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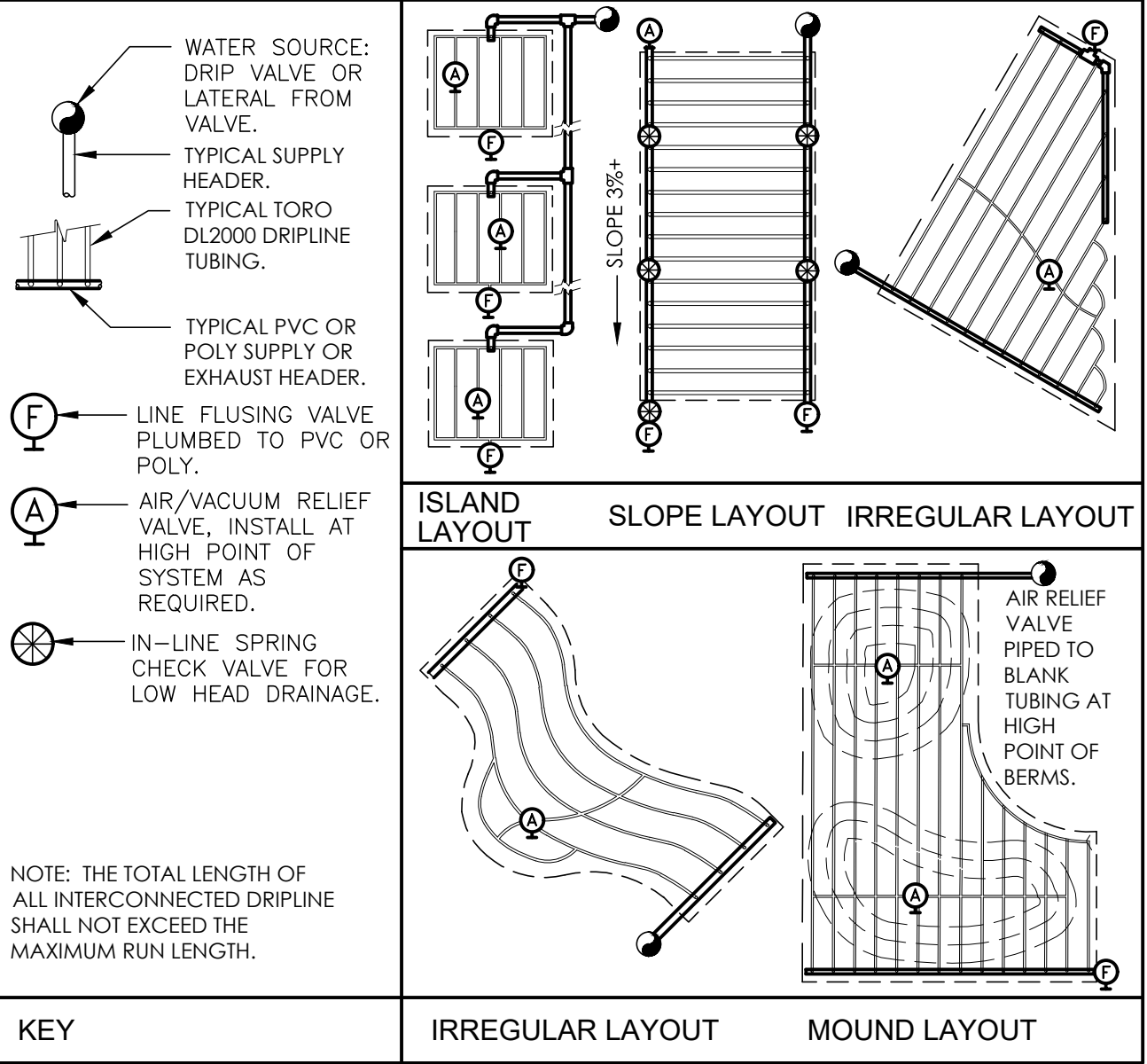


MAXIMUM RECOMMENDED LENGTH OF RUN AT 0% SLOPE							
DRIPLINE TYPE	FLOW RATE	EMITTER SPACING	15 PSI	25 PSI	30 PSI	40 PSI	
RPG212	0.53 GPH	12"	250'	360'	400'	460'	
RPG218	0.53 GPH	18"	350'	515'	565'	650'	
RPG412	1.0 GPH	12"	140'	240'	260'	300'	
RPG418	1.0 GPH	18"	240'	340'	375'	430'	

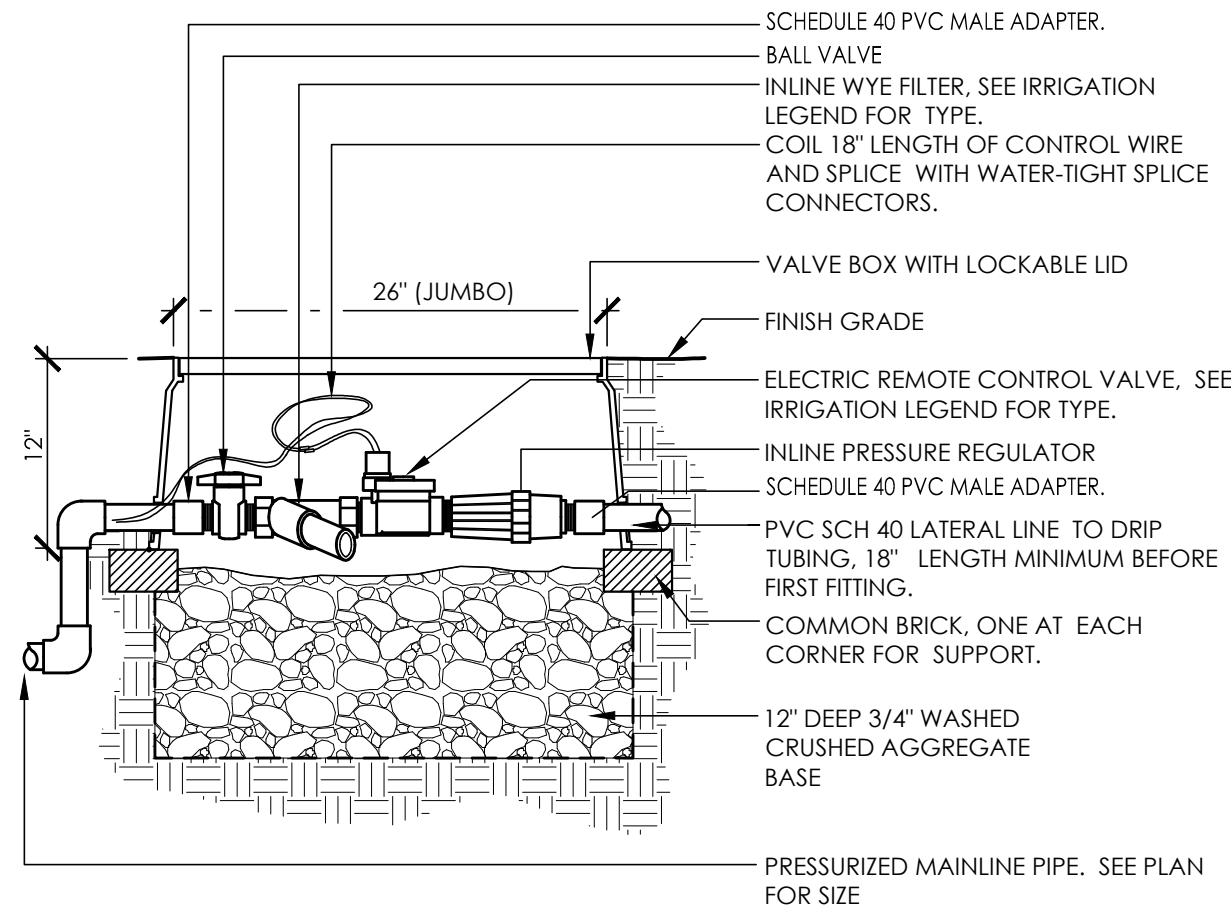
FLOW RATE PER 100 LINEAR FEET @ 20 PSI					
DRIPLINE TYPE	FLOW RATE	EMITTER SPACING	ACTUAL FLOW / 100 FT. GPM		
RPG212	0.53 GPH	12"	53.00	0.88	
RPG218	0.53 GPH	18"	35.33	0.59	
RPG412	1.0 GPH	12"	102.00	1.70	
RPG418	1.0 GPH	18"	67.99	1.13	

**SUPPLY AND EXHAUST HEADER SIZING CHART (UNLESS NOTED ON PLANS)**

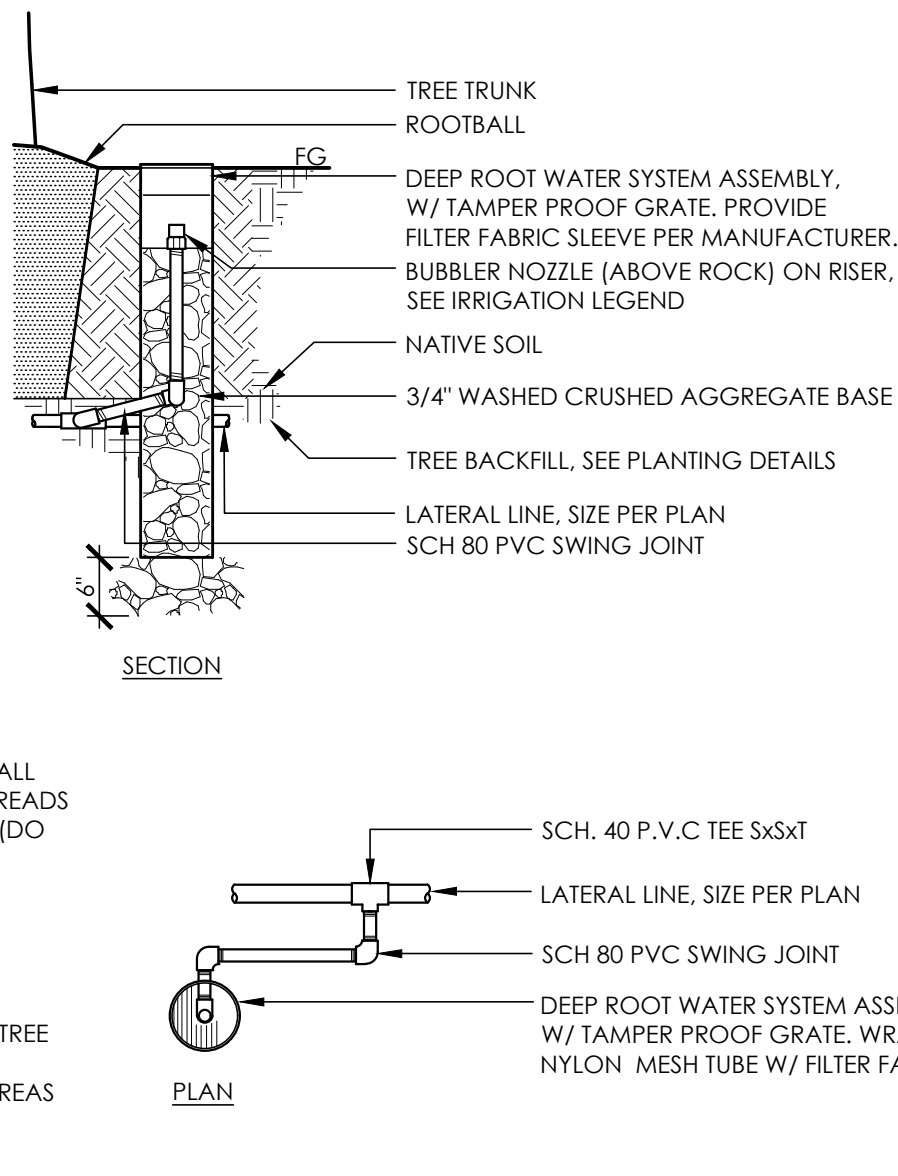
STEP 1: ADD LENGTH OF ALL DRIPLINE LATERAL TUBING CONNECTED TO THE HEADER.  
STEP 2: DIVIDE THIS TOTAL LENGTH BY 100 TO INDICATE THE LENGTH IN UNITS OF 100.  
STEP 3: LOCATE THE GPM THAT APPLIES FOR EACH UNIT OF 100 FEET LENGTH ON THE CHART "FLOW RATE PER 100 LINEAR FEET". MULTIPLY THIS GPM NUMBER TIMES THE UNITS OF 100 FEET FOR THE TOTAL GPM AT THIS HEADER.  
STEP 4: SIZE THE HEADER WITH THE FOLLOWING:  
1 TO 4 GPM: 3/4" HEADER. 6 TO 10 GPM: 1" HEADER.  
10 TO 20 GPM: 1 1/4" HEADER. 20 TO 30 GPM: 1 1/2" HEADER.



5 TORO DL2000 DRIPLINE N.T.S. RRM-2186.01-28



3 DRIP ZONE CONTROL VALVE 1/2" = 1'-0" RRM-2186.01-29



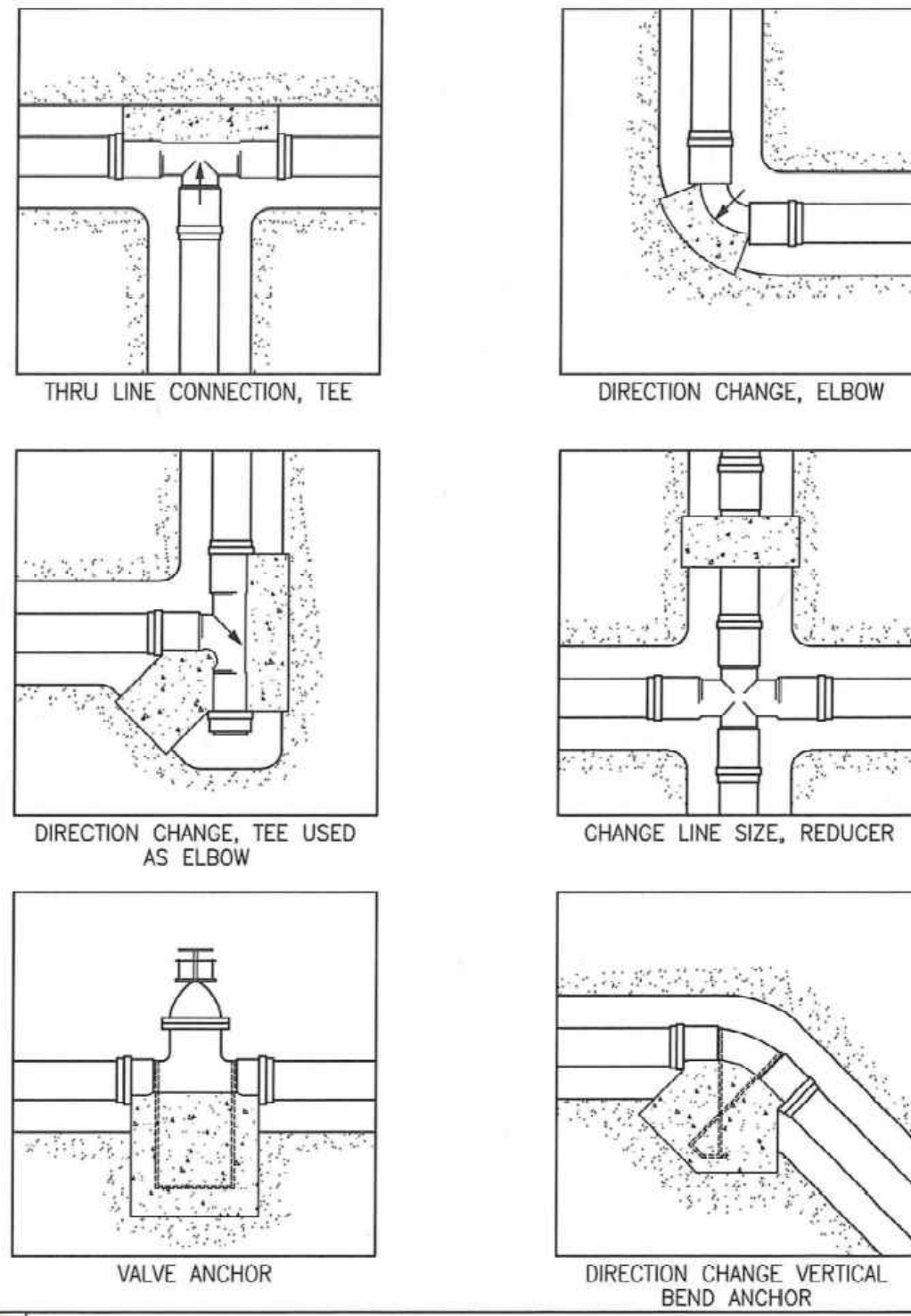
**NOTES:**

A. USE PIPE TEFLON TAPE ON ALL PIPE THREADS. TIGHTEN THREADS UNTIL MODERATELY SNUG (DO NOT OVERTIGHTEN).

B. LOCATE TREE BUBBLER ON ROOT BALL SIDE OF ROOT CONTROL BARRIERS.

C. WHERE POSSIBLE, LOCATE TREE BUBBLER AWAY FROM ADJACENT HARDSCAPE AREAS TO DISCOURAGE ROOT GROWTH UNDER PAVING.

4 DEEP ROOT TREE BUBBLER 3/4" = 1'-0" RRM-2186.01-26



**CITY OF ANTIOCH**  
**DEPARTMENT OF PUBLIC WORKS – ENGINEERING SERVICES**

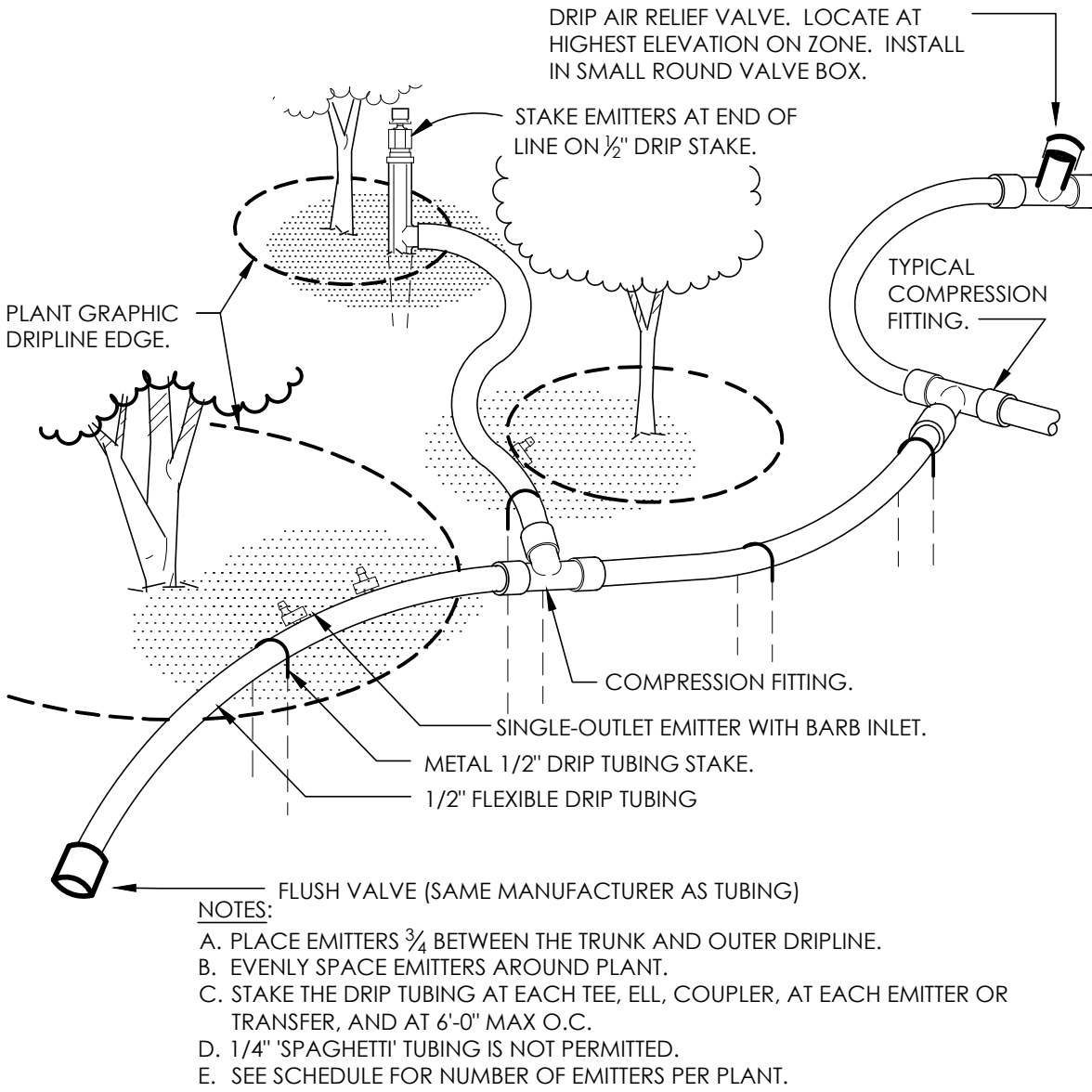
DRAWN BY: S. Rodriguez  
REVISIONS:

**IRRIGATION TYPICAL THRUST BLOCKS**

L-16

APPROVED BY: Ron Bernal, P.E. CITY ENGINEER  
DATE: DEC 20, 2016

1 IRRIGATION TYPICAL THRUST BLOCKS N.T.S.



**NOTES:**

A. PLACE EMITTERS 3/4" BETWEEN THE TRUNK AND OUTER DRIPLINE.

B. EVENLY SPACE EMITTERS AROUND PLANT.

C. STAKE THE DRIPLINE TUBING AT EACH TEE, ELL, COUPLER, AT EACH EMITTER OR TRANSFER, AND AT 6'-0" MAX. O.C.

D. 1/4" "SPAGHETTI" TUBING IS NOT PERMITTED.

E. SEE SCHEDULE FOR NUMBER OF EMITTERS PER PLANT.

2 TYPICAL DRIP TUBING LAYOUT 1 1/2" = 1'-0" RRM-2186.01-50



90% CDs

DATE ACCEPTED: \_\_\_\_\_

INSPECTED BY: \_\_\_\_\_

AS BUILT REVISIONS: \_\_\_\_\_

DATE: \_\_\_\_\_

BY: \_\_\_\_\_

DATE: MARCH/25/2022	APPROVED BY:		
DESIGNED BY: JS	DIRECTOR OF PUBLIC WORKS/ CITY ENGINEER		
CHECKED BY: GC	DATE: C.E.		
DRAWN BY: YI	NO.	BY	DATE
REVISIONS:			

PUBLIC WORKS DEPARTMENT  
CAPITAL IMPROVEMENTS DIVISION

CONTRA LOMA ESTATES PARK  
RENOVATION PROJECT

**IRRIGATION DETAILS**  
**LI502**

SCALE:  
PUBLIC WORKS  
PROJECT NO.

SHEET 32

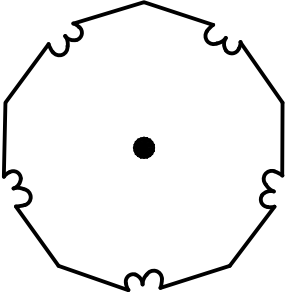
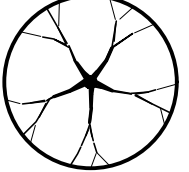
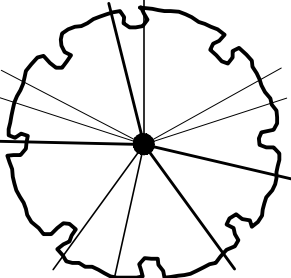
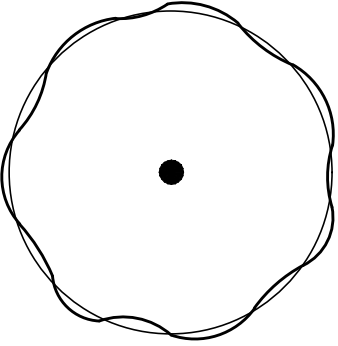






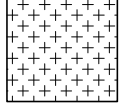
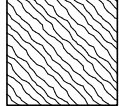
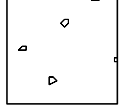
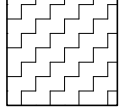
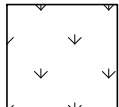
OF 40 SHEETS

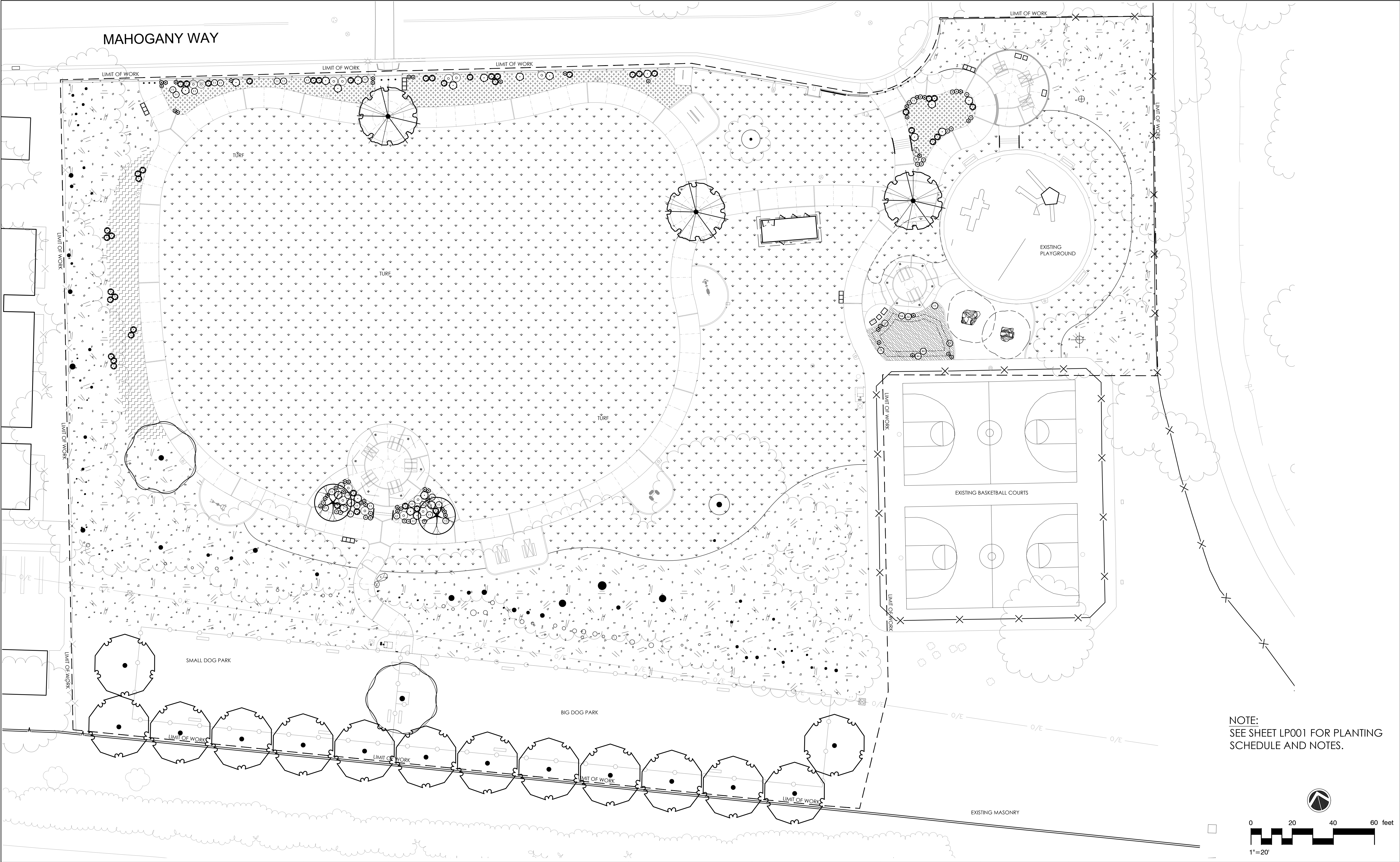


PLANTING NOTES

1. PLANT LIST IS FOR CONVENIENCE OF CONTRACTOR ONLY. IN CASE OF DISCREPANCIES BETWEEN THE PLANS AND THE LIST, PLANS SHALL PREVAIL.
2. PLANT LOCATIONS SHOWN ON THE PLANS ARE DIAGRAMMATIC. CONTRACTOR SHALL LOCATE ALL PLANT MATERIAL UNDER THE DIRECTION OF THE OWNER OR AUTHORIZED REPRESENTATIVE PRIOR TO PLANTING HOLE EXCAVATION.
3. THE CITY OR AUTHORIZED REPRESENTATIVE RESERVES THE RIGHT TO MAKE SUBSTITUTIONS, ADDITIONS, AND DELETIONS TO THE PLANTING LAYOUT AS WORK PROGRESSES.
4. ALL GROUND COVER SHALL BE TRIANGULARLY SPACED UNLESS OTHERWISE NOTED.
5. CONTRACTOR SHALL INSTALL A 3" LAYER OF MULCH IN ALL PLANTING AREAS. MULCH SHALL BE PRODUCED FROM ON-SITE TREE REMOVALS WHERE POSSIBLE.
6. CONTRACTOR SHALL PROVIDE CONCRETE MOW CURB PER PLANS AND SPECIFICATIONS BETWEEN ALL TURF AND SHRUB/GROUND COVER AREAS UNLESS OTHERWISE NOTED.
7. ALL TREES IN WELLS OR TREES THAT ARE 5' OR LESS FROM PAVED SURFACES SHALL RECEIVE ROOT BARRIER PANELS.
8. ALL TREES IN TURF AREAS SHALL RECEIVE ARBORGARD TREE TRUNK PROTECTORS.
9. ALL PLANTING AREAS TO BE AMENDED. SEE SPECIFICATIONS.

PLANT SCHEDULE

TREES	QTY	BOTANICAL NAME	COMMON NAME	CONT	WUCOLS	SIZE	
	14	ARBUTUS X 'MARINA'	MARINA STRAWBERRY TREE STANDARD	15 GAL	LOW	30' H X 30' W (MOSTLYNATIVES.COM)	
	2	CERCIS OCCIDENTALIS	WESTERN REDBUD MULTI-TRUNK	15 GAL	VERY LOW	10'-20' H & W (SELECT TREE)	
	3	PLATANUS OCCIDENTALIS	AMERICAN SYCAMORE	24"BOX	MODERATE	40-80' H X 30-40 W (TREES OF CAL LANDSCAPE)	
	2	QUERCUS AGRIFOLIA	COAST LIVE OAK	36"BOX	VERY LOW	20-70' H & W (SELECT TREE)	
SHRUBS	QTY	BOTANICAL NAME	COMMON NAME	CONT	WUCOLS	SIZE	
	37	ACHILLEA MILLEFOLIUM	COMMON YARROW	1 GAL	LOW	1-2' H X 2-3' W (SAN MARCOS GROWERS)	
	20	NEPETA X FAASSENII 'WALKER'S LOW'	WALKER'S LOW CATMINT	1 GAL	LOW	1' H X 1.5-2' W (SUNSET)	
	20	PEROVSKIA ATRIPLICIFOLIA	RUSSIAN SAGE	1 GAL	LOW	3-4' H & W (SUNSET)	
	11	SALVIA LEUCANTHA	MEXICAN BUSH SAGE	1 GAL	LOW	3-4' W X 3-6' W (SUNSET)	
	40	SEDUM X 'AUTUMN JOY'	AUTUMN JOY SEDUM	1 GAL	LOW	2' X 2' (MONROVIA)	
	43	WESTRINGIA FRUTICOSA 'WES04' TM	GREY BOX COAST ROSEMARY	1 GAL	LOW	2-3' H & W (SAN MARCOS GROWERS)	
GROUND COVERS	QTY	BOTANICAL NAME	COMMON NAME	CONT	WUCOLS	SIZE	SPACING
	155	ARCTOSTAPHYLOS X 'EMERALD CARPET'	EMERALD CARPET MANZANITA	1 GAL	LOW	1' H X 3-5' W (SAN MARCOS GROWERS)	48" o.c.
	179	CHONDROPETALUM TECTORUM 'DWARF'	DWARF CAPE RUSH	1 GALLON	LOW	3' H X W (SUNSET)	36" o.c.
	35,347 SF	MULCH	MULCH	MULCH			
	57	MYOPORUM X 'PUTAH CREEK'	PUTAH CREEK MYOPRORUM	4" POT	LOW	1' H X 8' W	72" o.c.
	64,286 SF	TURF SEED BOLERO PLUS - DELTA BLUEGRASS		SEED	HIGH		



FILE LOCATION/NAME:

LANDSCAPE ARCHITECT  
JERRY CHAYEL, No. 0040  
Expires  
2/28/23  
Renewal Date  
Date  
STATE OF CALIFORNIA

rrm design group

325 Davis Street • San Leandro, CA 94577  
Tel: (510) 751-4910 • F: (510) 580-6386  
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ANTIOCH CALIFORNIA

OPPORTUNITY LIVES HERE

90% CDs

DATE ACCEPTED: \_\_\_\_\_  
INSPECTED BY: \_\_\_\_\_  
AS BUILT REVISIONS: \_\_\_\_\_  
DATE: \_\_\_\_\_  
BY: \_\_\_\_\_

DATE: MARCH/25/2022  
DESIGNED BY: JS  
CHECKED BY: GC  
DRAWN BY: YI  
REVISIONS: \_\_\_\_\_

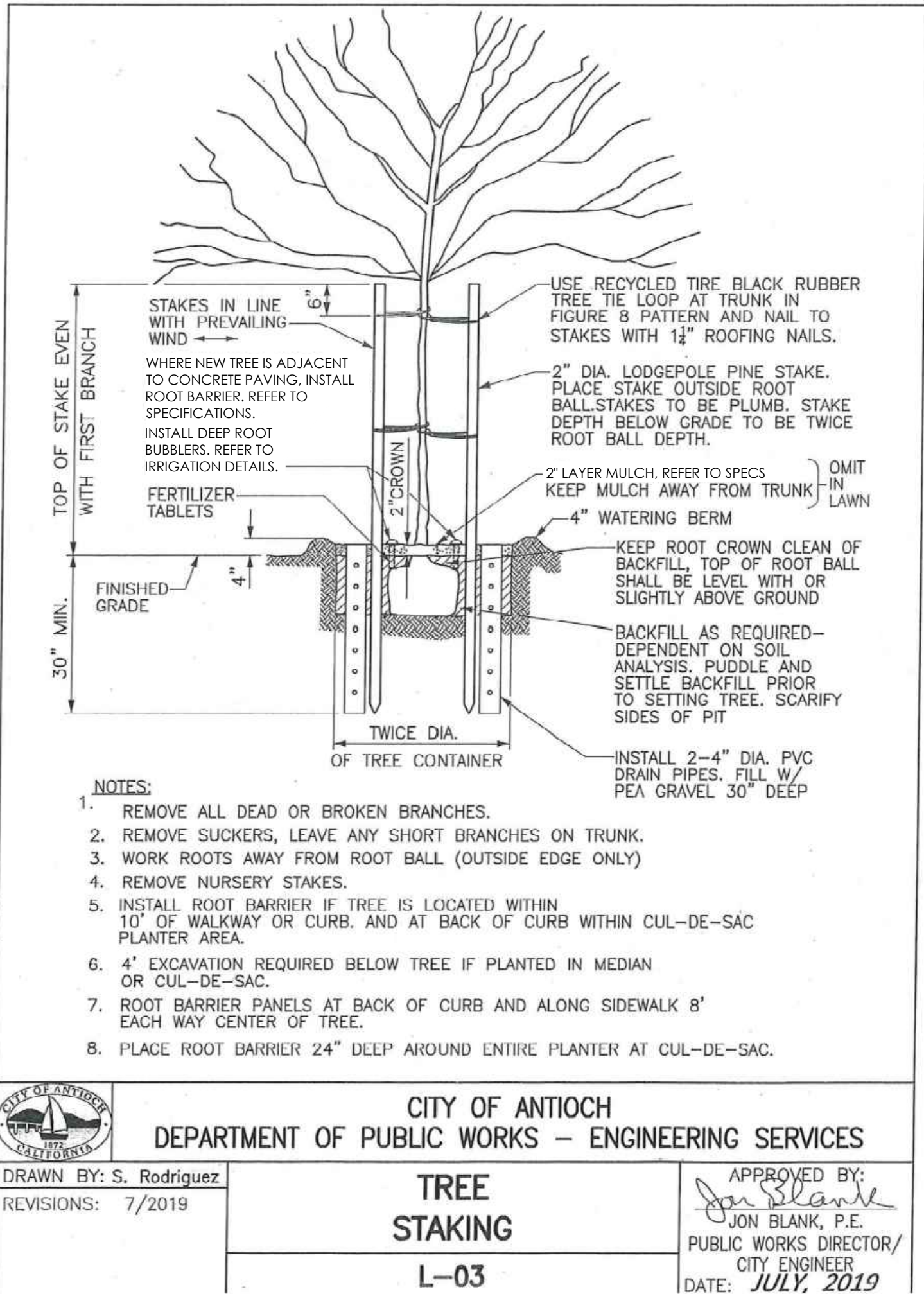
APPROVED BY:

DIRECTOR OF PUBLIC WORKS/  
CITY ENGINEER  
DATE: \_\_\_\_\_  
NO. BY DATE

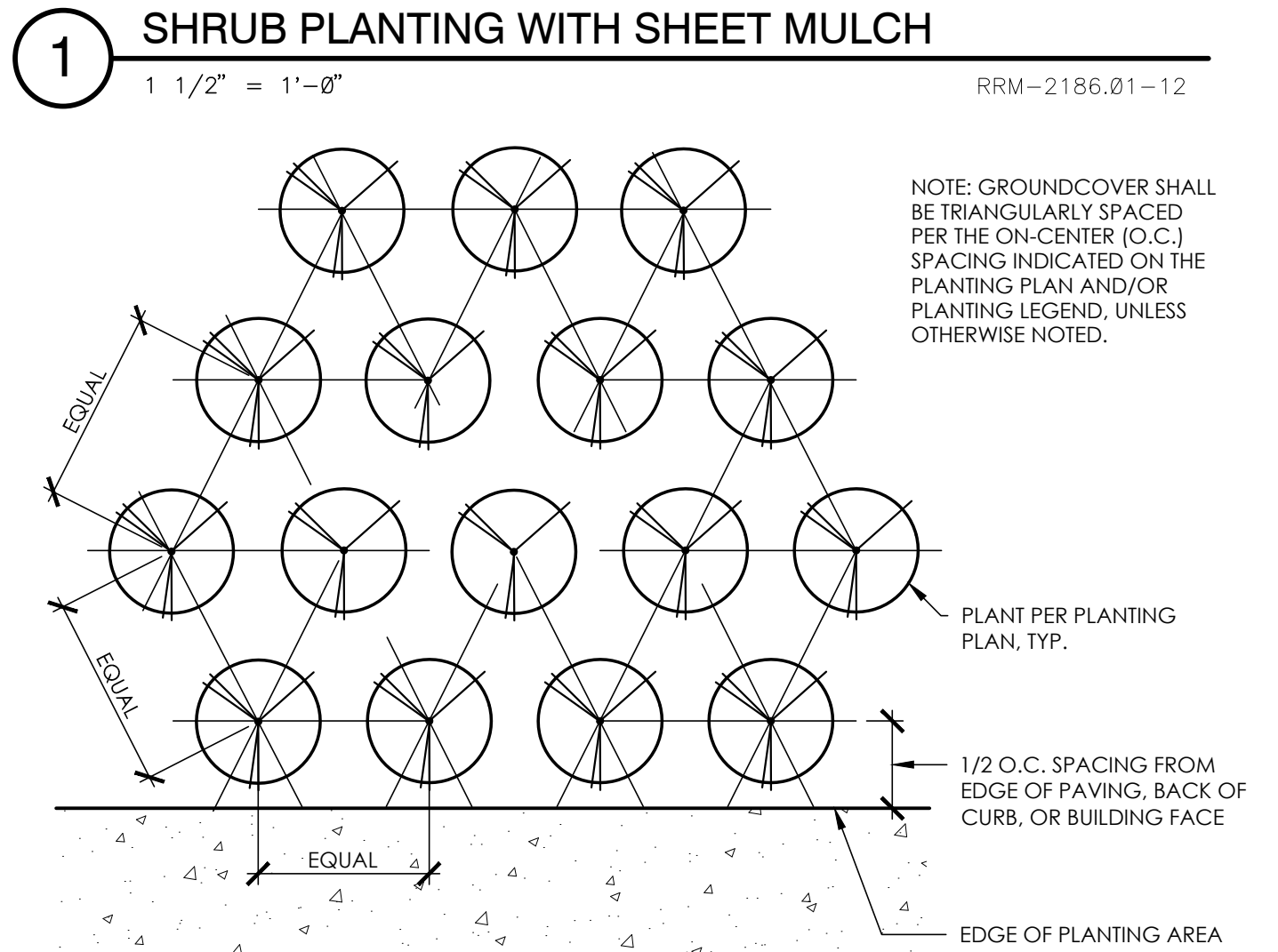
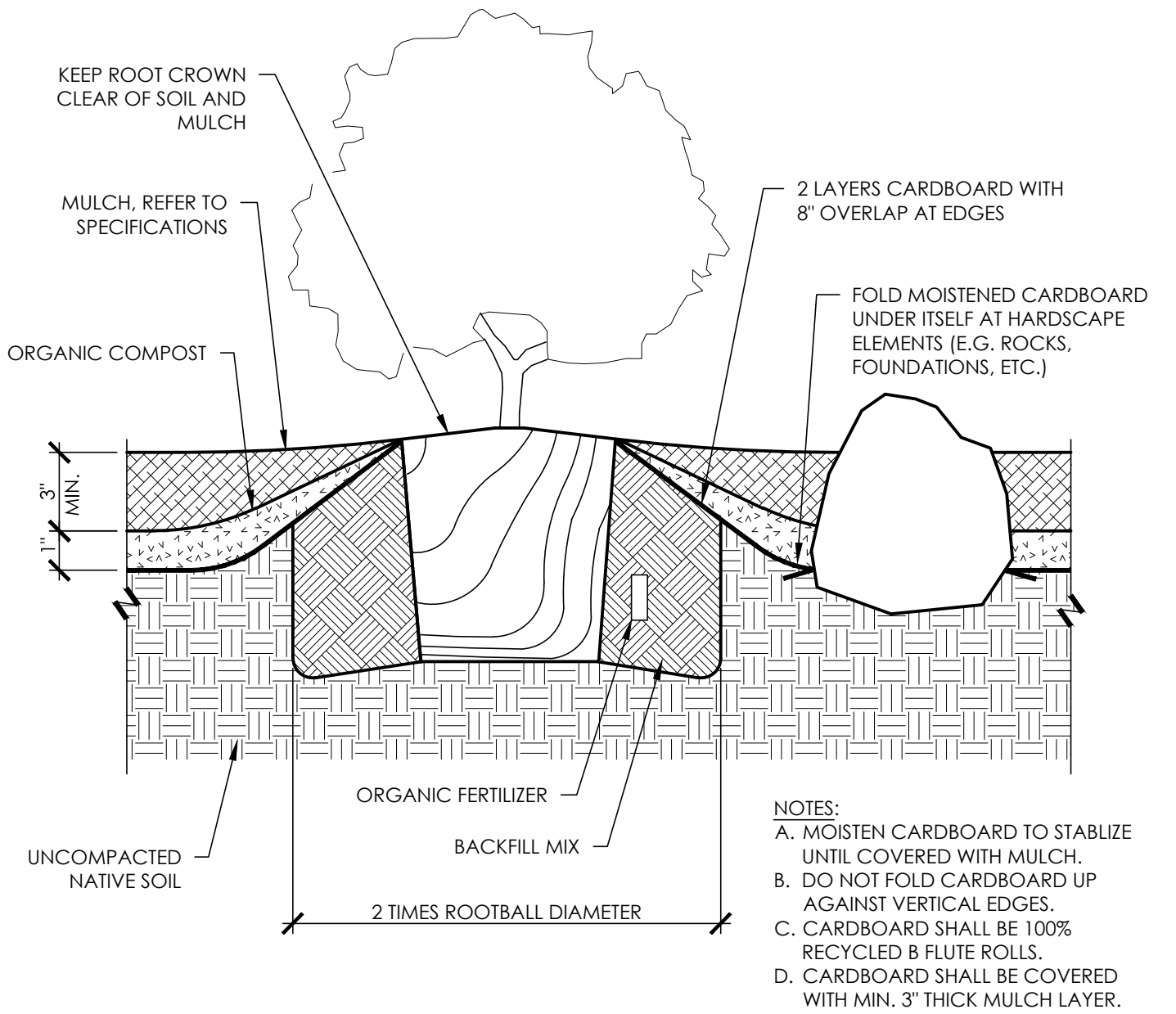
PUBLIC WORKS DEPARTMENT  
CAPITAL IMPROVEMENTS DIVISION  
CONTRA LOMA ESTATES PARK  
RENOVATION PROJECT  
**PLANTING PLAN  
LP101**

SCALE: 1:20  
PUBLIC WORKS  
PROJECT NO.  
SHEET 34  
OF 40 SHEETS





3 TREE STAKING (MODIFIED CITY STANDARD DETAIL)



2 GROUNDCOVER SPACING



90% CDs

DATE ACCEPTED: \_\_\_\_\_

INSPECTED BY: \_\_\_\_\_

AS BUILT REVISIONS: \_\_\_\_\_

DATE: \_\_\_\_\_

BY: \_\_\_\_\_

DATE: MARCH/25/2022	APPROVED BY:		
DESIGNED BY: JS			
CHECKED BY: GC	DIRECTOR OF PUBLIC WORKS/ CITY ENGINEER		
DRAWN BY: YI	DATE:	C.E.	
REVISIONS:	NO.	BY	DATE

PUBLIC WORKS DEPARTMENT CAPITAL IMPROVEMENTS DIVISION  CONTRA LOMA ESTATES PARK RENOVATION PROJECT <b>PLANTING DETAILS</b> <b>LP501</b>	SCALE: PUBLIC WORKS PROJECT NO.
	SHEET <u>35</u>
	OF <u>40</u> SHEETS



GENERAL NOTES

1. CODE COMPLIANCE: ALL WORK SHALL CONFORM TO AND BE PERFORMED IN ACCORDANCE WITH CODES, STANDARDS, AND ORDINANCES AS SET FORTH BY THE AUTHORITIES HAVING JURISDICTION AND THEIR LATEST ADOPTED EDITIONS (IN EFFECT AT TIME OF BUILDING PERMIT APPLICATION) OF THE FOLLOWING PUBLICATIONS:

A. CALIFORNIA CODE OF REGULATIONS TITLE 24; INCLUDES 2019 CALIFORNIA ELECTRICAL CODE, 2019 CALIFORNIA FIRE CODE, 2019 CALIFORNIA BUILDING CODE, ETC. WITH LOCAL AMENDMENTS AS APPLICABLE.

B. AMERICANS WITH DISABILITIES ACT (ADA).
2. SAFETY: THE ELECTRICAL CONTRACTOR IS RESPONSIBLE TO MAINTAIN ALL EQUIPMENT IN A SAFE AND RESPONSIBLE MANNER. KEEP DEAD FRONT EQUIPMENT IN PLACE WHILE EQUIPMENT IS ENERGIZED. CONDUCT ALL CONSTRUCTION OPERATIONS IN A SAFE MANNER FOR EMPLOYEES AS WELL AS OTHER WORKPERSONS OR ANYONE VISITING THE JOB SITE. PROVIDE BARRIERS, FLAGS, TAPE, ETC. AS REQUIRED FOR SAFETY. THE CONTRACTOR SHALL HOLD ALL PARTIES HARMLESS OF NEGLIGENT SAFETY PRACTICES, WHICH MAY CAUSE INJURY TO OTHERS ON OR NEAR THE JOB SITE.
3. FIRE RATED ASSEMBLIES SHALL MAINTAIN RATINGS AS SPECIFIED IN THE CALIFORNIA BUILDING CODE CHAPTER 7. CONTRACTOR SHALL PROVIDE AND INSTALL PHYSICAL ENCLOSURE AROUND FIXTURES, PANELS, ETC. AS REQUIRED. ALL ASSEMBLIES TO BE PENETRATED SHALL BE INSTALLED WITH APPLICABLE THROUGH-PENETRATION FIRESTOP SYSTEM AS DETERMINED BY UL CLASSIFICATION. BEFORE CONSTRUCTION, VERIFY AND COMPLY WITH REQUIREMENTS OF LOCAL AUTHORITY HAVING JURISDICTION.
4. MOUNTING HEIGHTS SHALL BE AS FOLLOWS UNLESS OTHERWISE NOTED:

+15" AFF: RECEPTACLES, TELEPHONE, TV & DATA OUTLETS. (MEASURED BOTTOM OF OUTLET BOX)

+46" AFF: OUTLET ABOVE COUNTER (MEASURED TOP OF OUTLET BOX)

+48" AFF: LIGHT SWITCHES. (MEASURED TOP OF OUTLET BOX)

+48" AFF: FIRE ALARM MANUAL PULL STATIONS, T-STATS. (MEASURED TOP OF OUTLET BOX)

THE LOWER OF +40" AFF TO BOTTOM OF LENS, OR 6" BELOW CEILING: FIRE ALARM VISUALS.

ELECTRICAL SWITCHES: CONTROLS AND SWITCHES INTENDED TO BE USED BY THE OCCUPANT OF THE ROOM OR AREA TO CONTROL LIGHT AND RECEPTACLE OUTLETS. APPLIANCES OR COOLING, HEATING AND VENTILATING EQUIPMENT, SHALL BE LOCATED NO MORE THAN 48 INCHES MEASURED FROM THE TOP OF THE OUTLET BOX NOR LESS THAN 15 INCHES MEASURED FROM THE BOTTOM OF THE OUTLET BOX TO THE LEVEL OF THE FINISH FLOOR OR WORKING PLATFORM. [CBC 11B-308.1.1]

ELECTRICAL RECEPTACLE OUTLETS: ELECTRICAL RECEPTACLE OUTLETS ON BRANCH CIRCUITS OF 30 AMPERES OR LESS AND COMMUNICATION SYSTEM RECEPTACLES SHALL BE LOCATED NO MORE THAN 48 INCHES MEASURED FROM THE TOP OF THE RECEPTACLE OUTLET BOX OR RECEPTACLE HOUSING NOR LESS THAN 15 INCHES MEASURED FROM THE BOTTOM OF THE RECEPTACLE OUTLET BOX OR RECEPTACLE HOUSING TO THE LEVEL OF THE FINISH FLOOR OR WORKING PLATFORM [CBC 11B-308.1.2]

BEFORE ROUGH-IN, VERIFY ALL MOUNTING HEIGHTS AND EXACT LOCATIONS FOR ALL EQUIPMENT ELECTRICAL CONNECTIONS, STUB-UPS, RECEPTACLES, OUTLETS, ETC. WITH ARCHITECT OR OWNER. PLACE DEVICES LOCATED ABOVE COUNTERS, SHELIVING, ETC. AND IN BATHROOMS SO AS NOT TO CONFLICT WITH EDGES OF WAINSCOTING, COUNTER SPLASH, SHELIVING, ETC. ARCHITECTURAL SHEETS SHALL GOVERN.

5. LABEL PANELS, CABINETS, BACKBOARDS, MAIN DEVICES, SAFETY SWITCHES, CONTACTORS AND OTHER SPECIFICALLY DESIGNATED EQUIPMENT SHOWN ON PLANS. USE ENGRAVED LAMINATED PLASTIC NAMEPLATES ATTACHED BY SCREWS OR RIVETS. FOR FEEDERS, NEATLY AND INDELIBLY LABEL CONDUIT DESTINATIONS ON BOTH VISIBLE ENDS OF CONDUIT RUNS WHERE CONDUITS TERMINATE AT DESIGNATED ENCLOSURES, STRUCTURES OR EQUIPMENT (INCLUDING PULL AND SPLICE BOXES).

GENERAL SITE PLAN NOTES

- A. UTILITY COMPANY CONTACTS: BEFORE CONSTRUCTION, COORDINATE & VERIFY ALL UTILITY COMPANY REQUIREMENTS:

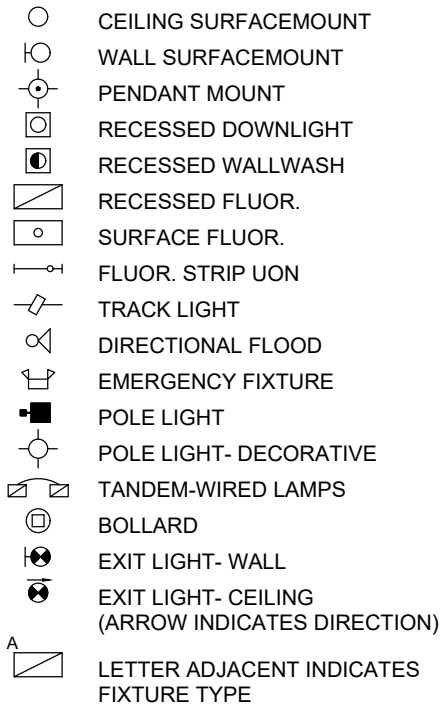
PGE&: JONATHAN MCMONAGLE, JONATHAN.MCMONAGLE@PGE.COM, 925.244.3598

APPLICATION NUMBER: 122438218
- B. TRENCHING AND BACKFILLING FOR ALL CONDUIT SYSTEMS SHALL BE THE RESPONSIBILITY OF THE ELECTRICAL CONTRACTOR. ALL CONDUITS SHALL HAVE MINIMUM COVER REQUIREMENTS AS SPECIFIED IN CEC 300-5. MORE STRINGENT DEPTH REQUIREMENTS MAY BE IMPOSED BY UTILITY COMPANY AND / OR THIS SPECIFICATION. JOINT TRENCHING MAY BE UTILIZED WHERE PRACTICABLE AND WERE PERMITTED BY THIS SPECIFICATION.
- C. LOCATIONS OF EXISTING UNDERGROUND (UG) UTILITY SYSTEMS SHALL BE DETERMINED BY CALLING UNDERGROUND SERVICE ALERT (USA) TOLL FREE AT 811. WHEN PLANNING UNDERGROUND WORK, AND BEFORE YOU DIG, CONTACT UNDERGROUND SERVICE ALERT (USA) AT LEAST 48 HOURS PRIOR TO EXCAVATION (WEEKENDS EXCLUDED) FOR THE LOCATION OF UNDERGROUND GAS AND ELECTRIC LINES OR EQUIPMENT.
- D. MAINTAIN REQUIRED CLEARANCES FROM ALL SANITARY SEWER, WATER AND STORM DRAIN PIPING. REFER TO CIVIL PLANS FOR EXACT LOCATIONS AND DEPTHS OF PIPING.
- E. ALL SITE UTILITY WORK SHALL BE INSTALLED PER THE UTILITY COMPANY ISSUED CONSTRUCTION DRAWINGS AND SPECIFICATIONS SPECIFIC TO THIS PROJECT. ANY UTILITY WORK PERFORMED WITHOUT PRIOR UTILITY COMPANY APPROVAL SHALL BE DONE AT THE CONTRACTOR'S RISK.

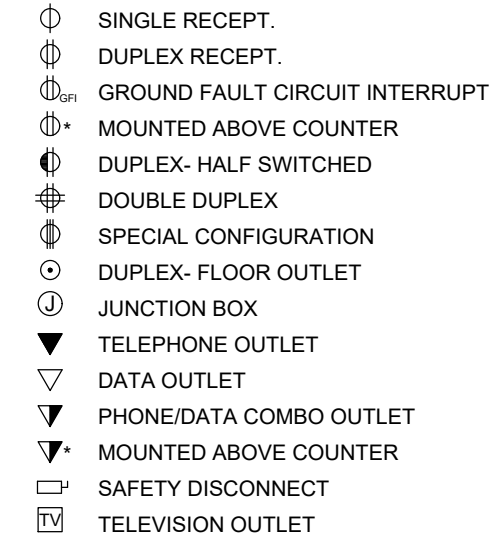
LEGEND

NOTE: INTERPRET IN CONTEXT

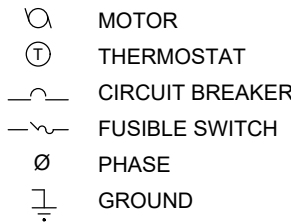
LIGHT FIXTURES



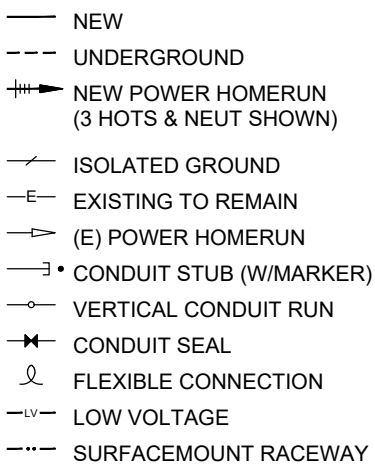
POWER/COMM.



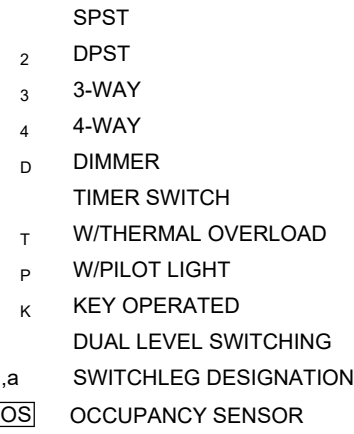
MISCELLANEOUS



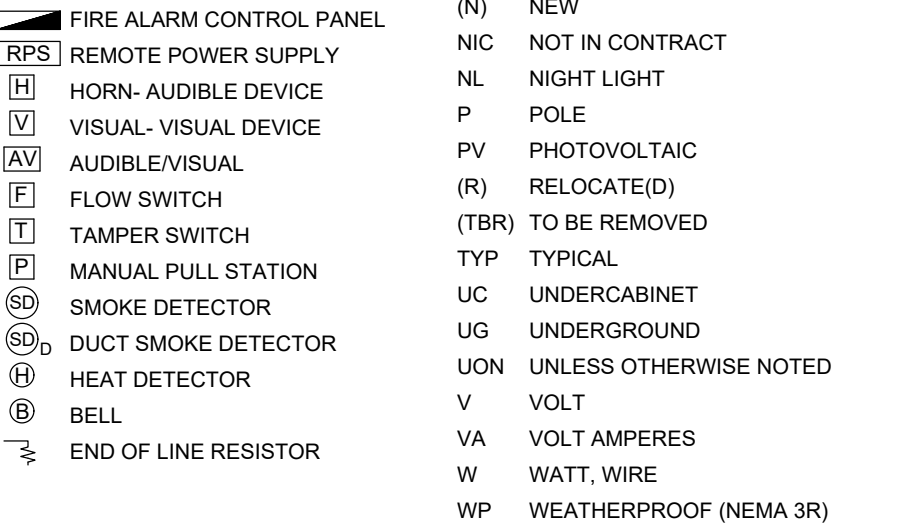
CONDUIT/WIRE



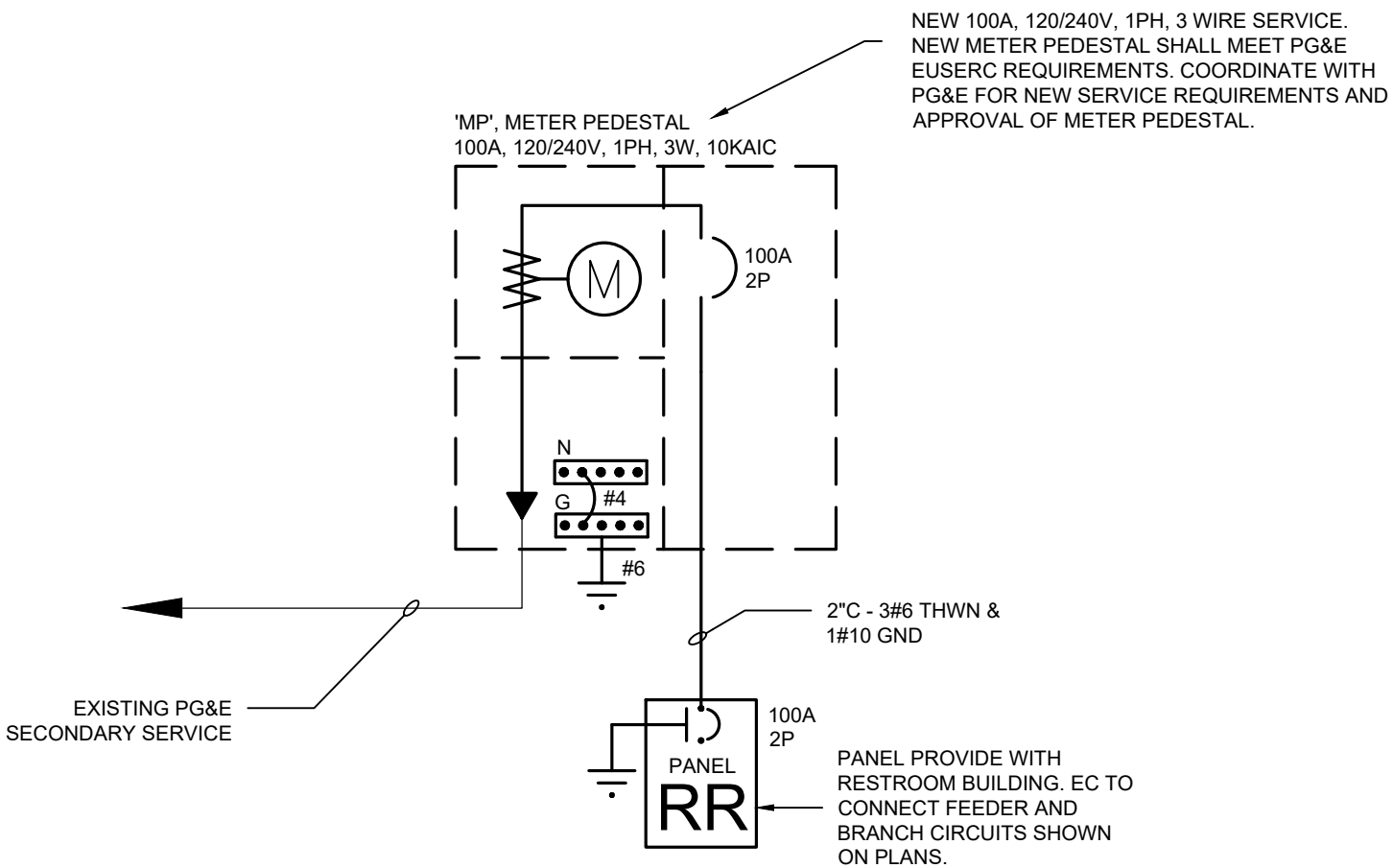
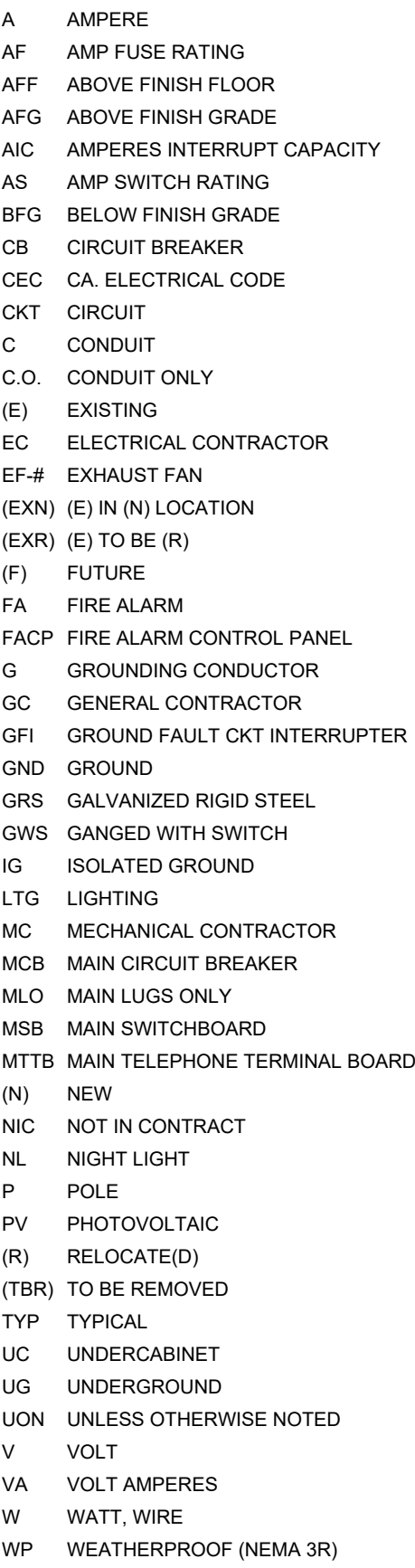
SWITCHES



FIRE ALARM



ABBREVIATIONS

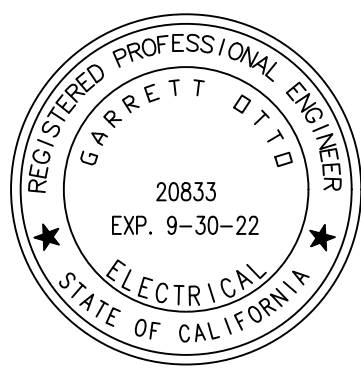


SINGLE LINE DIAGRAM

BUS RATING: 100A 120/240V, 1PH, 3W										PANEL RR										SURFACE MOUNT, NEMA 3R									
MAIN: 100A MAIN CIRCUIT BREAKER																				LOCATION: RESTROOM									
SPACES: 24 FULL SIZE BOLT-ON CB SPACES																				WITH EQUIPMENT GND BUS									
AIC RATING: 10 KA/CB PANEL										CONNECTED VA																			
CKT %VD	DIST (FT)	NOTES	LOAD TYPE	CKT	DESCRIPTION	TRIP	POLES	COND SIZE	PHASE A	PHASE B	COND SIZE	POLES	TRIP	DESCRIPTION	CKT	LOAD TYPE	NOTES	DIST (FT)	CKT %VD										
				1	RESTROOM LOAD									RESTROOM LOAD	2														
				3	RESTROOM LOAD									RESTROOM LOAD	4														
				5	RESTROOM LOAD									RESTROOM LOAD	6														
				7	SPACE									SPACE	8														
				9	SPACE									SPACE	10														
				11	SPACE																								
				13	SPACE																								
				15	IRRIGATION CONTROLLER	20	1	12		1200		10	2	20	COURT LIGHTING POLE 1	14	L	1	200	2.07%									
0.83%	150			17	PATHWAY LIGHTS	20	2	12		190	1200	10	-	-	"	16	L	1											
0.78%	300		L	19	"					190	1200	8	2	20	COURT LIGHTING POLE 2	18	L	1	400	2.59%									
				19	"						190	8	-	-	"	20	L	1											
PANEL NOTES: 1. ROUTE CIRCUIT THROUGH MUSCO LIGHTING CONTROL PANEL										CON: 2580 2820 25%: 48 0 SUB: 0 0 TOT: 2638 2820 AMPS 22 24										LOAD TYPE LEGEND 0 R RECEPTACLE 5120 L LIGHTING (125% OF CONNECTED LOAD CEC 215.2) 0 M MECHANICAL 0 K KITCHEN APPLIANCE 0 N NON-CONTINUOUS MSC. 0 C CONTINUOUS MSC. (125% OF CONNECTED LOAD CEC 215.2)									

LIGHTING FIXTURE SCHEDULE

TYPE	ILLUSTRATION	MANUFACTURER	CATALOG NO.	VOLTAGE	MAX. VA.	LAMPING	MOUNTING	DESCRIPTION
S2		FIXTURE: LEOTEK POLE: HAPCO	FIXTURE: PTC-S-F-T-S-30J-MV-40K-2-GY-045-PRCR7-CR-C-LLPCM-V-LR POLE: RTA-16-B-5-A-4-BA	120	37	LED	CONCRETE BASE	POLE MOUNTED LED FIXTURE, TYPE 2 DISTRIBUTION. PROVIDE 7-WIRE PHOTOCELL, STANDARD CUPOLA, AND LADDER REST OPTIONS.
S3		FIXTURE: LEOTEK POLE: HAPCO	FIXTURE: PTC-S-F-T-S-30J-MV-40K-3-GY-045-PRCR7-CR-C-LLPCM-V-LR POLE: RTA-16-B-5-A-4-BA	120	37	LED	CONCRETE BASE	POLE MOUNTED LED FIXTURE, TYPE 3 DISTRIBUTION. PROVIDE 7-WIRE PHOTOCELL, STANDARD CUPOLA, AND LADDER REST OPTIONS.
S5		FIXTURE: LEOTEK POLE: HAPCO	FIXTURE: PTC-S-F-T-S-30J-MV-40K-5-GY-045-PRCR7-CR-C-LLPCM-V-LR POLE: RTA-16-B-5-A-4-BA	120	37	LED	CONCRETE BASE	POLE MOUNTED LED FIXTURE, TYPE 5 DISTRIBUTION. PROVIDE 7-WIRE PHOTOCELL, STANDARD CUPOLA, AND LADDER REST OPTIONS.



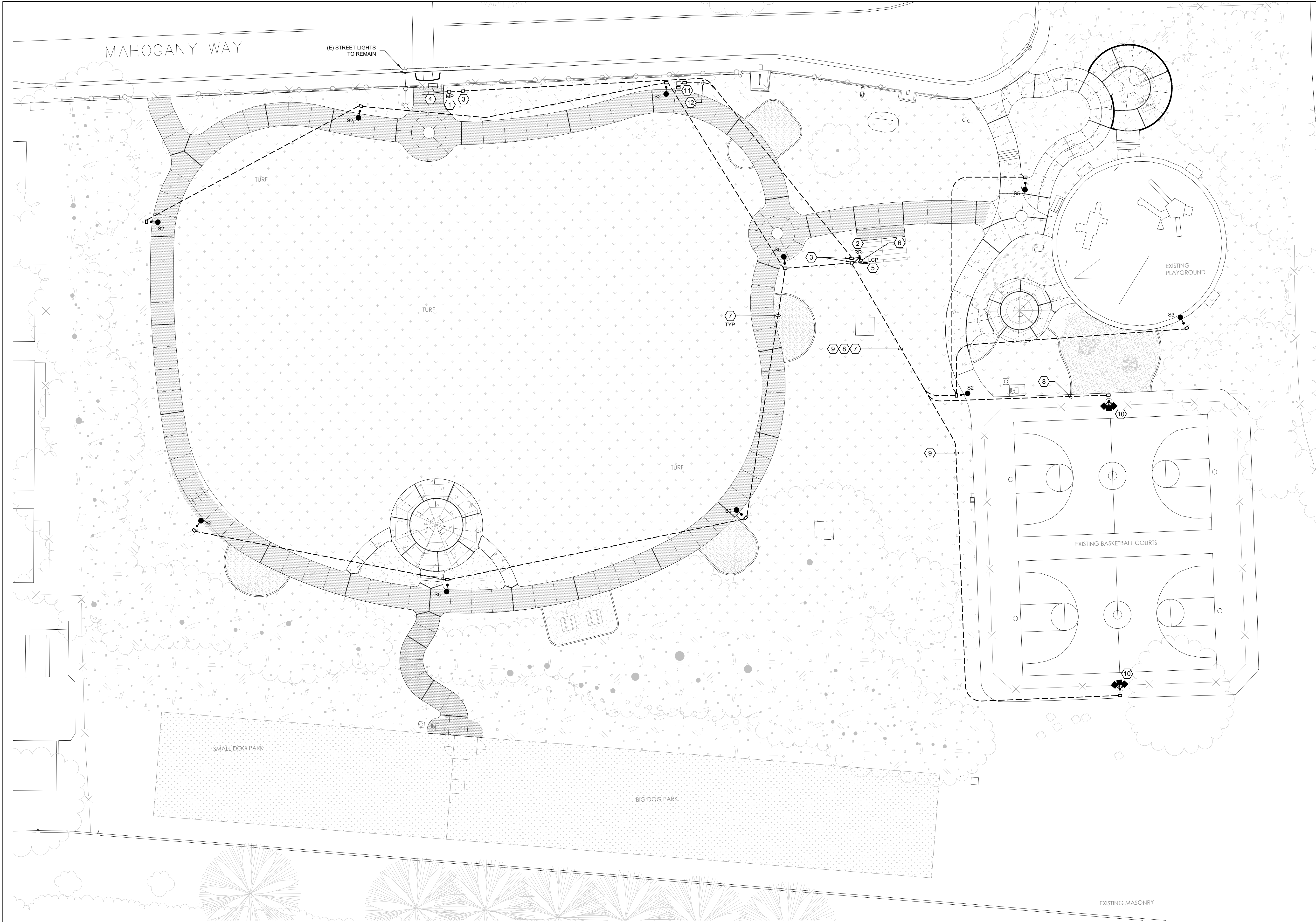
90% CDs  
DATE ACCEPTED: \_\_\_\_\_  
INSPECTED BY: \_\_\_\_\_  
AS BUILT REVISIONS: \_\_\_\_\_  
DATE: \_\_\_\_\_  
BY: \_\_\_\_\_

DATE: 2/3/2022	APPROVED BY:		
DESIGNED BY: GO	DIRECTOR OF PUBLIC WORKS/ CITY ENGINEER DATE: C.E.		
CHECKED BY: GO			
DRAWN BY: GO	NO. BY DATE		
REVISIONS:			

PUBLIC WORKS DEPARTMENT  
CAPITAL IMPROVEMENTS DIVISION  
CONTRA LOMA ESTATES PARK  
RENOVATION PROJECT  
SINGLE LINE DIAGRAM AND SCHEDULES  
E100

SCALE: PER DETAIL  
PUBLIC WORKS  
PROJECT NO.  
SHEET \_\_XX\_\_  
OF \_\_XX\_\_ SHEETS





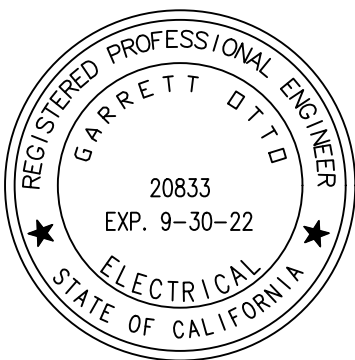
ⓧ REFERENCE NOTES

1. NEW METER PEDESTAL 'MP'. MYERS MEUG16 OR EQUAL.
2. RESTROOM PANEL 'RR' PROVIDED BY RESTROOM MANUFACTURER. CONTRACTOR TO INSTALL FEEDER TO PANEL PER SINGLE LINE DIAGRAM.
3. 17"x30" CONCRETE PULL BOX.
4. CONNECT TO EXISTING PG&E PULL BOX OR AS INDICATED BY PG&E HANDOUT PACKAGE. COORDINATE WITH UTILITY TO REPLACE CONCRETE EXTENSION RING AND COVER.
5. LIGHTING CONTROL PANEL PROVIDED BY MUSCO. CONTRACTOR TO INSTALL IN RESTROOM STORAGE/MECHANICAL ROOM.
6. 1-1/2"C - 2#12, 2#10, 2#8 THWN, 1#8 GND FROM PANEL 'RR'.
7. 1"C - 2#12 THWN & 1#12 GND. TYPICAL FOR ALL PATHWAY LIGHTS.
8. 1"C - 2#10 THWN & 1#10 GND.
9. 1"C - 2#8 THWN & 1#8 GND.
10. BASKETBALL COURT LIGHTS BY MUSCO.
11. RELOCATED IRRIGATION CONTROL PANEL. RECONNECT FEEDER IN NEW LOCATION. IRRIGATION CONTROLLER SHALL BE GFCI PROTECTED. PROVIDE (2)12"x18" CONCRETE PULL BOXES ADJACENT TO PEDESTAL. ONE FOR LINE VOLTAGE FEEDER CIRCUIT, ONE FOR LOW VOLTAGE SOLENOID CABLES.
12. 1"C - 2#12 THWN & 1#12 GND.

BASKETBALL COURT LIGHTING

- COURT LIGHT LIGHTS, POLES, DRIVERS, CONTACTORS, AND CONTROL PANELS SHALL BE PROVIDED BY MUSCO LIGHTING. REFERENCE PROJECT #216141.  
MUSCO CONTACT:  
JASEN DENIZ  
JASEN.DENIZ@MUSCO.COM  
530.742.7429
- POLE FOUNDATION SHALL BE DESIGNED BY MUSCO LIGHTING AND PROVIDED AS A DEFERRED SUBMITTAL.
- PROGRAM LIGHTS TO COME ON AT SUNSET AND TURN OFF AT 9:00PM DAILY.

 **SITE ELECTRICAL PLAN**  
SCALE: 1" = 20'



**OTTO | ELECTRICAL**

OTTO ELECTRICAL, INC.  
SAN LUIS OBISPO, CA  
GOTTO@OTTOELECTRICAL.COM  
805.459.4329

**ANTIOCH CALIFORNIA**  
OPPORTUNITY LIVES HERE

90% CDs

DATE ACCEPTED: \_\_\_\_\_  
INSPECTED BY: \_\_\_\_\_  
AS BUILT REVISIONS: \_\_\_\_\_  
DATE: \_\_\_\_\_  
BY: \_\_\_\_\_

DATE: 2/3/2022	APPROVED BY:		
DESIGNED BY: GO	DIRECTOR OF PUBLIC WORKS/ CITY ENGINEER		
CHECKED BY: GO			
DRAWN BY: GO	DATE:	C.E.	
REVISIONS:	NO.	BY	DATE

PUBLIC WORKS DEPARTMENT  
CAPITAL IMPROVEMENTS DIVISION

CONTRA LOMA ESTATES PARK  
RENOVATION PROJECT  
SITE ELECTRICAL PLAN  
E200

SCALE: PER DETAIL  
PUBLIC WORKS  
PROJECT NO.

SHEET   XX  

OF   XX  SHEETS





## Control System Summary

### Project Specific Notes:

Project #: 216141  
Project Name: Contra Loma Estates Park  
Date: 01/19/22  
Project Engineer: Hunter Sabers  
Sales Representative: Jansen Daniz  
Control System Type: Control-Link™ Control and Monitoring System  
Communication Type: PowerLine-ST  
Scan: 216141A  
Document ID: 216141P1V1-0119180904  
Distribution Panel Location or ID: LED C&M  
Total # of Distribution Panel Locations for Project: 1  
Design Voltage/Hertz/Phase: 240/60/1  
Control Voltage: 120

### Equipment Listing

DESCRIPTION	APPROXIMATE SIZE
1. Control and Monitoring Cabinet	24 X 48
Total Contactors	QTY 2
Total Off/On/Auto Switches:	SIZE (AMPS) 30 AMP

### Materials Checklist

- Contractor/Customer Supplied:**
- ☐ A dedicated control circuit must be supplied per distribution panel location
  - ☐ If the control voltage is NOT available, a control transformer is required
  - ☐ Electrical distribution panel to provide overcurrent protection for circuits
  - ☐ HID rated or D-curve circuit breaker sized per full load amps on Circuit Summary by Zone Chart
  - ☐ Wiring
  - ☐ See chart on page 2 for wiring requirements
  - ☐ Equipment grounding conductor and splices must be insulated (per circuit)
  - ☐ Lightning ground protection (per pole), if not Musco supplied
  - ☐ Electrical conduit wireway system
  - ☐ Entrance hubs rated NEMA 4, must be die-cast zinc, PVC, or copper-free die-cast aluminum
  - ☐ Mounting hardware for cabinets
  - ☐ Breaker lock-on device to prevent unauthorized power interruption to control power and powerline connection (if present)
  - ☐ Anti-corrosion compound to apply to ends of wire, if necessary

Call Control-Link Central™ operations center at 877/347-3319 to schedule activation of the control system upon completion of the installation.

Note: Activation may take up to 1 1/2 hours.

1/21/2022 01:01:01 PM 1/19/2022 04:02

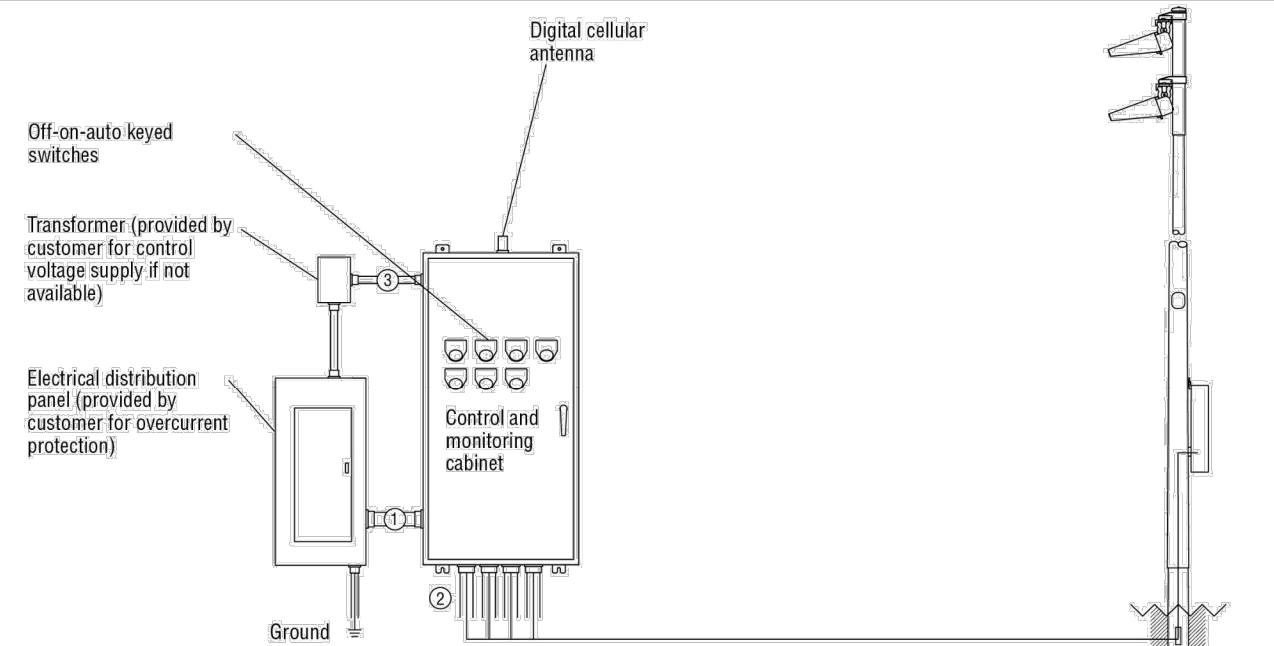
© 1999, 2022 Musco Sports Lighting, LLC  
Form: T-5030-1



## Control System Summary

Contra Loma Estates Park / 216141 - 216141A  
LED C&M - Page 2 of 4

### Control-Link. Control and Monitoring System



Conduit ID	Description	# of Wires	Wire (AWG)	Conduit (in)	Max. Wire Length (ft)	MUSCO Supplied	Notes
1	Line power to contactors, and equipment grounding conductor	*A	*B	*C	N/A	No	A-E
2	Load power to lighting circuits, and equipment grounding conductor	*A	*B	*C	N/A	No	A-E
3	Control power (dedicated, 20A)	3	12	*C	N/A	No	C-E

\*Notes:  
A. See voltage and phasing per the notes on cover page.  
B. Calculate per load and voltage drop.  
C. All conduit diameters should be per code unless otherwise specified to allow for connector size.  
D. Equipment grounding conductor and any splices must be insulated.  
E. Refer to control and monitoring system installation instructions for more details on equipment information and the installation requirements.

IMPORTANT: Control wires (3) must be in separate conduit from line and load power wires (1, 2).

1/21/2022 01:01:01 PM 1/19/2022 04:02



## Control System Summary

Contra Loma Estates Park / 216141 - 216141A  
LED C&M - Page 3 of 4

### SWITCHING SCHEDULE

Field/Zone Description	Zones
Basketball	1

CONTROL POWER CONSUMPTION	
120V Single Phase	
VA loading of Musco Supplied Equipment	INRUSH: 1063.0 SEALED: 127.8

CIRCUIT SUMMARY BY ZONE						
POLE	CIRCUIT DESCRIPTION	# OF FIXTURES	# OF DRIVERS	*FULL LOAD AMPS	CONTACTOR SIZE (AMPS)	CONTACTOR ID
P1	Basketball	4	2	9.9	30	C1
P2	Basketball	4	2	9.9	30	C2

\*Full Load Amps based on amps per driver.

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## Control System Summary

Contra Loma Estates Park / 216141 - 216141A  
LED C&M - Page 4 of 4

PANEL SUMMARY					
CABINET #	CONTROL MODULE LOCATION	CONTACTOR ID	CIRCUIT DESCRIPTION	FULL LOAD AMPS	DISTRIBUTION PANEL ID (BY OTHERS)
1	1	C1	Pole P1	9.90	
1	1	C2	Pole P2	9.90	

ZONE SCHEDULE				
ZONE	SELECTOR SWITCH	ZONE DESCRIPTION	CIRCUIT DESCRIPTION	CONTACTOR ID
Zone 1	1	Basketball	P1 P2	C1 C2

1/21/2022 01:01:01 PM 1/19/2022 04:02

## Contra Loma Estates Park

Antioch, CA

### Lighting System

Pole ID	Type	Pole Height	Fixture Qty	Luminaire Type	Load	Circuit
P1-P2		40'	2	TLC-LED-400	0.80 kW	A
		40'	2	TLC-LED-600	1.16 kW	A
2			8		3.92 kW	

Circuit Summary			
Circuit	Description	Load	Fixture Qty
A	SB	3.92 kW	8

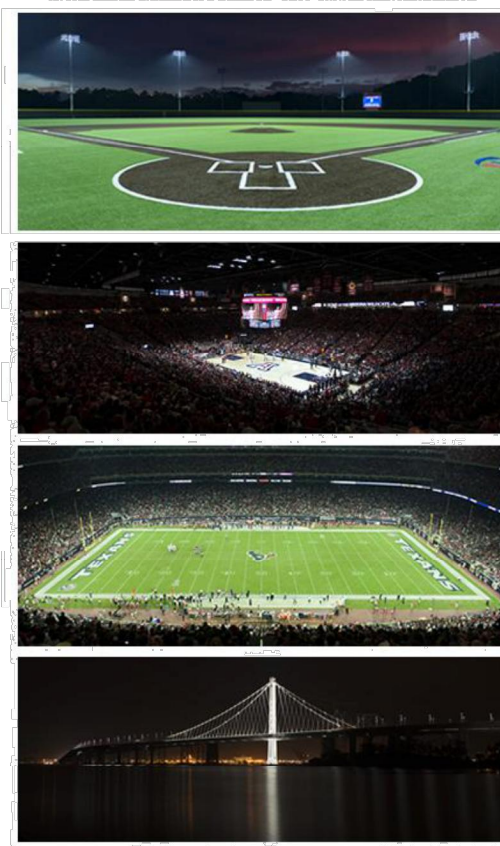
Fixture Type Summary						
Type	Source	Wattage	Lumens	L80	L90	Quantity
TLC-LED-600	LED 5700K - 75 CRI	580W	65,600	>120,000	>120,000	4
TLC-LED-400	LED 5700K - 75 CRI	400W	46,500	>120,000	>120,000	4

### Light Level Summary

Calculation Grid Summary		Illumination				Circuits	
Grid Name	Calculation Metric	Ave	Min	Max	Max/Min	Ave/Min	Fixture Qty
BB 1	Horizontal Illuminance	34.5	24	47	2.00	1.44	8
BB 2	Horizontal Illuminance	34.5	24	47	2.00	1.44	8

ENGINEERED DESIGN By: H.Sabers - File #216141A - 19-Jan-22

### From Hometown to Professional



We Make It Happen.

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### PROJECT SUMMARY



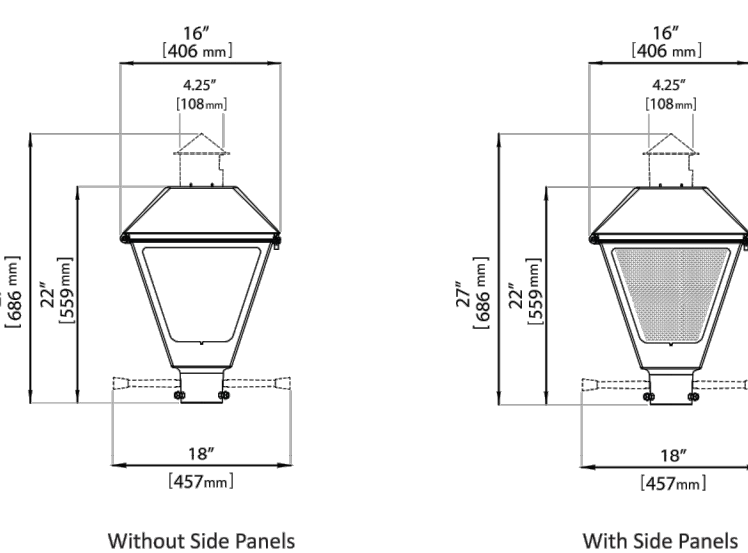
## Colonial LED Post Top

### PTC Series Specification Data Sheet

### Luminaire Data

Weight 19.62 lbs (8.9 kg)  
EPA 1.58 sq. ft.

37w option

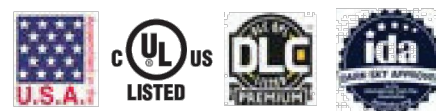


### Ordering Information

Model	Size	Roof Style	Side Panels	LED Optic	LED Code	Voltage	Color Temperature	Distribution	Finish <sup>1</sup>	Output Code <sup>2</sup>
PTC	S	F	T	S	30J	MV	40K	2, 3, 5	GY	045
PTC	S	F	T	S	30J	MV	40K	2, 3, 5	GY	045

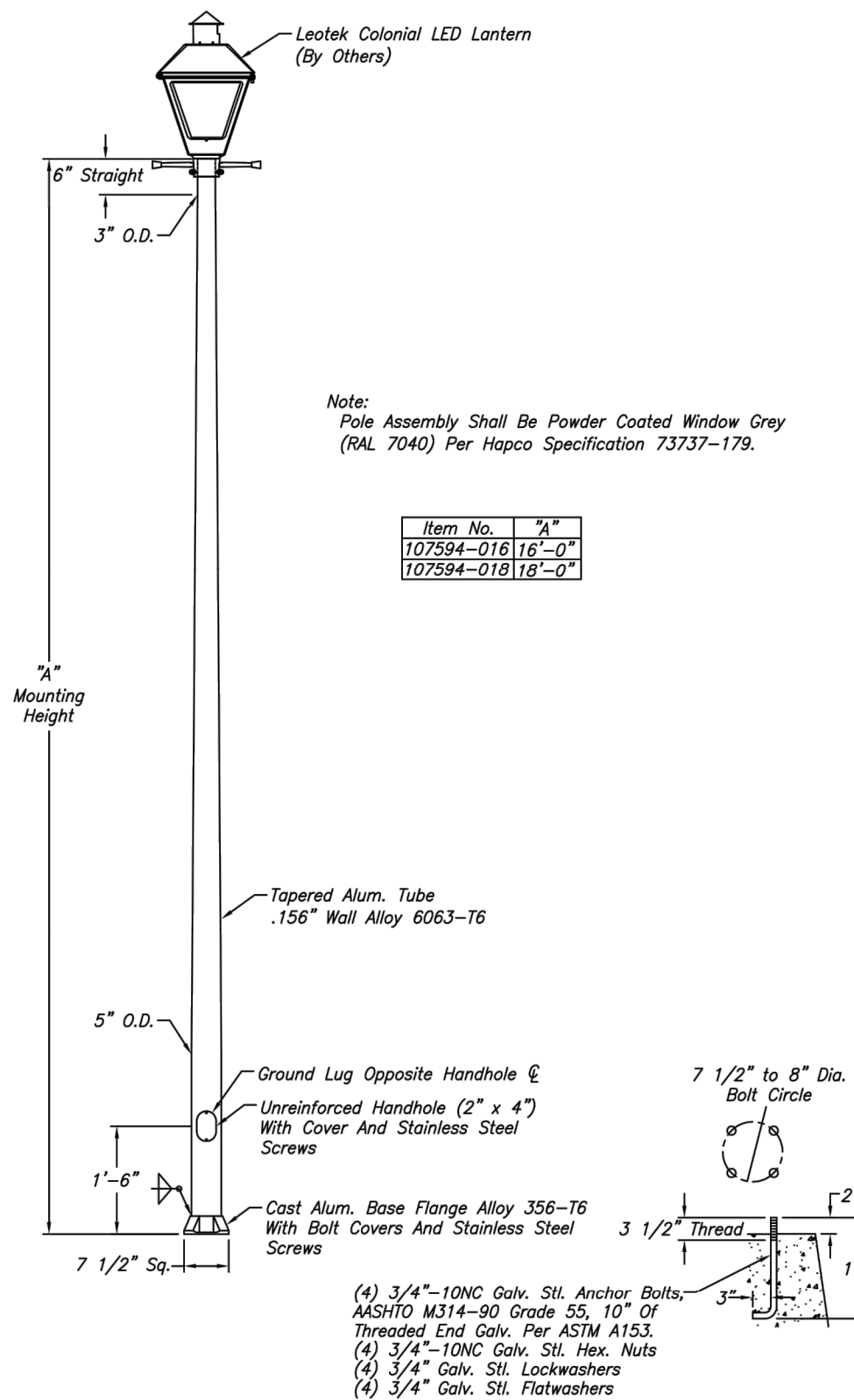
Options		Accessories	
PCR7-CR <sup>1</sup>	Control Ready 7-wire PC Receptacle (Standard Cupola)	LLPCM <sup>1</sup>	Long-Life Twist Lock Photocell (120V- 277V)
C	(4.25" dia. x 5.3" H/ 108mm x 135mm)	LLPCMV	Long-Life Twist Lock Photocell (347V- 480V)
CS <sup>2</sup>	Field Adjustable Light Output	SC	Shoring Cap
WL	Utility Wattage Label	BG	Bird Guard Cover Plate
HSS	House Side Shield	C	Standard Cupola
SP2	Extreme Surge Protection, 20kA/10kV	LR	Ladder Rest (set of 2)
FSS	Front Side Shield	HSSJPTC30J	House Side Shield
CS	Cul-de-Sac Shield	HSSJPTC60J	House Side Shield (set of 2)
BG	Bird Guard Cover Plate	CSJPTC30J	Cul-de-Sac Shield
LR	Ladder Rest (set of 2)	CSJPTC60J	Cul-de-Sac Shield (set of 2)
		FSSJPTC30J	Front Side Shield
		FSSJPTC60J	Front Side Shield (set of 2)

Notes:  
1. Consult factory for other finishes.  
2. Specified output code is the factory set lumen performance. Refer to performance data table. Optional current selector enables return to be changed in the field to adjust light output for local conditions. Each CS current selector and PCR7 receptacle are required, specify "PCR7-CS". Note that dimming wires will not be connected to receptacle.  
3. Control ready wired at factory for wireless node dimming (side by others). No current selector included.



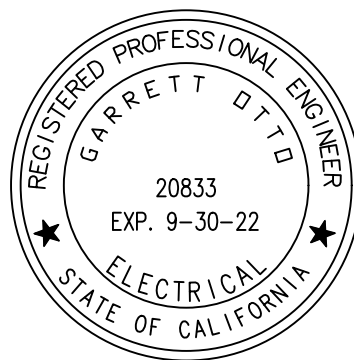
© 2021 Leotek Electronics USA  
Post Top Luminaire Specification Sheet\_08-04-2021. Specifications subject to change without notice.

Page 1 of 6



NO.	REVISIONS	DATE	WARNING: DO NOT INSTALL LIGHTING POLES WITHOUT LUMINAIRES

hapco  
Abingdon, Va.  
CUSTOMER Park Ridge Park-Antioch, CA  
SCALE 1/8" = 1'-0" DATE 11/05/2021  
BY TMB  
DWG. NO. B107594



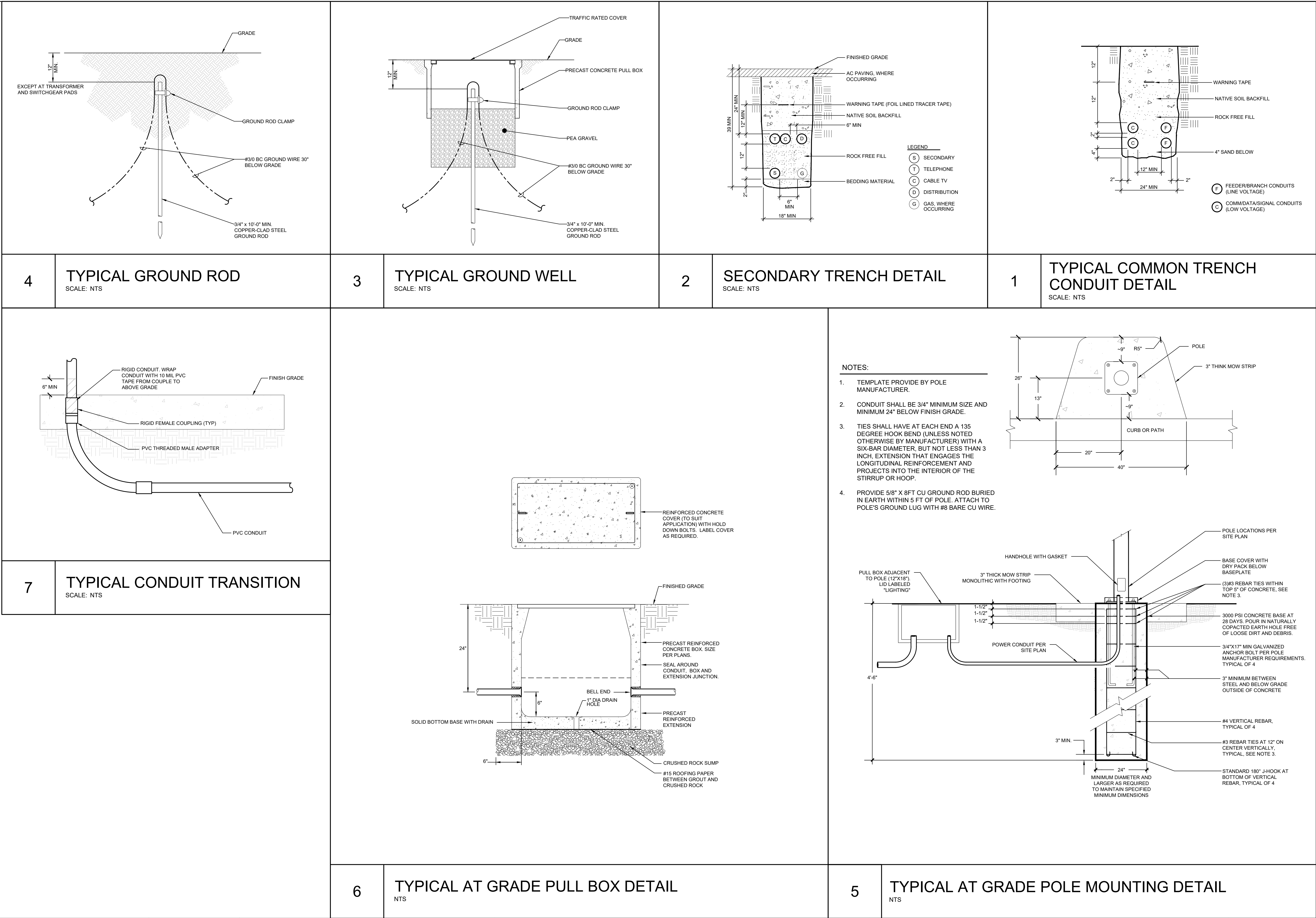
90% CDs  
DATE ACCEPTED: \_\_\_\_\_  
INSPECTED BY: \_\_\_\_\_  
AS BUILT REVISIONS: \_\_\_\_\_  
DATE: \_\_\_\_\_  
BY: \_\_\_\_\_

DATE: 2/3/2022	APPROVED BY:
DESIGNED BY: GO	
CHECKED BY: GO	DIRECTOR OF PUBLIC WORKS/ CITY ENGINEER
DRAWN BY: GO	DATE: C.E.
REVISIONS:	NO. BY DATE

PUBLIC WORKS DEPARTMENT  
CAPITAL IMPROVEMENTS DIVISION  
CONTRA LOMA ESTATES PARK  
RENOVATION PROJECT  
LIGHTING DETAILS  
E300

SCALE: PER DETAIL  
PUBLIC WORKS  
PROJECT NO.  
SHEET XX  
OF XX SHEETS







STATE OF CALIFORNIA

CALIFORNIA ENERGY COMMISSION

NRCC-LTO-E

NRCC-LTO-E

CERTIFICATE OF COMPLIANCE

Project Name: Contra Loma Estates Park

Report Page: (Page 1 of 7)

Project Address: Mahogany Way

Date Prepared: 1/20/2022

C. GENERAL INFORMATION

01

Project Location (city)

Antioch

04

Total Illuminated Hardscape Area (ft<sup>2</sup>)

2000

02

Climate Zone

12

03

Outdoor Lighting Zone per Title 24 Part 1 §10.114 or as designated by Authority Having Jurisdiction (AHJ):

☐ L2-0: Very Low - Undeveloped Parkland

☐ L2-2: Moderate - Rural Areas

☐ L2-4: High - Must be reviewed by CA Energy Commission for Approval

☐ L2-1: Low - Developed Parkland

☒ L2-3: Moderately High - Urban Areas

B. PROJECT SCOPE

This table includes outdoor lighting systems that are within the scope of the permit application and are demonstrating compliance using the prescriptive path outlined in §140.2 or §141.0(b)(2), for alterations.

My Project Consists of:

01

☒ New Lighting System

Must Comply with Allowances from §140.2

02

☐ Altered Lighting System

Is your alteration increasing the connected lighting load (Watts)?

☐ Yes

☒ No

03

% of Existing Luminaires Being Altered<sup>1</sup>

Sum Total of Luminaires Being Added or Altered

04

Calculation Method

☐ < 10%

☐ >= 10% and < 50%

☐ >= 50%

Please proceed to Table F, Outdoor Lighting Fixture Schedule to define the project's luminaires.

<sup>1</sup> FOOTNOTES: % of Existing Luminaires Being Altered = (Sum Total of Luminaires Being Added or Altered / Existing Luminaires within the Scope of the Permit Application) x 100.

Registration Number:

Registration Date/Time:

Registration Provider: Energysoft

CA Building Energy Efficiency Standards - 2019 Nonresidential Compliance

Report Version: 2019.1.003

Schema Version: rev 20200601

Report Generated: 2022-01-20 14:25:04

STATE OF CALIFORNIA

CALIFORNIA ENERGY COMMISSION

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NRCC-LTO-E

CERTIFICATE OF COMPLIANCE

Project Name: Contra Loma Estates Park

Report Page: (Page 2 of 7)

Project Address: Mahogany Way

Date Prepared: 1/20/2022

C. COMPLIANCE RESULTS

Results in this table are automatically calculated from data input and calculations in Tables F through I. Note: If any cell on this table says "COMPLIES with Exceptional Conditions" refer to Table D. Exceptional Conditions for guidance or use applicable Table referenced below.

Calculations of Total Allowed Lighting Power (Watts) §140.7 or §141.0(b)(2)

01

General Hardscape Allowance §140.7(d)(1) (See Table I)

+

02

Per Application §140.7(d)(2) (See Table J)

+

03

Sales Frontage Allowance §140.7(d)(2) (See Table K)

+

04

Ornamental §140.7(d)(2) (See Table L)

+

05

Per Specific Area §140.7(d)(2) (See Table M)

OR

06

Existing Power Allowance §141.0(b)(2) (See Table N)

=

07

Total Allowed (Watts)

≥

08

Total Actual (Watts)

07 must be >= 08

1,410

+

---

+

---

+

---

OR

---

=

1,410

≥

370

COMPLIES

Cutoff Compliance (See Table G for Details)

N/A

Controls Compliance (See Table H for Details)

COMPLIES with Exceptional Conditions

D. EXCEPTIONAL CONDITIONS

This table is auto-filled with uneditable comments because of selections made or data entered in tables throughout the form.

E. ADDITIONAL REMARKS

This table includes remarks made by the permit applicant to the Authority Having Jurisdiction.

Registration Number:

Registration Date/Time:

Registration Provider: Energysoft

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Report Version: 2019.1.003

Schema Version: rev 20200601

Report Generated: 2022-01-20 14:25:04

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NRCC-LTO-E

CERTIFICATE OF COMPLIANCE

Project Name: Contra Loma Estates Park

Report Page: (Page 3 of 7)

Project Address: Mahogany Way

Date Prepared: 1/20/2022

F. OUTDOOR LIGHTING FIXTURE SCHEDULE

For new or altered lighting systems demonstrating compliance with §140.2, all new luminaires being installed and any existing luminaires remaining or being moved within the spaces covered by the permit application are included in the Table below. For altered lighting systems using the Existing Power method per §141.0(b)(2), only new luminaires being installed and replacement luminaires being installed as part of the project scope are included (ie, existing luminaires remaining or existing luminaires being moved are not included).

Designed Wattage:

01

02

03

04

05

06

07

08

09

10

Name or Item Tag

Complete Luminaire Description

Watts per luminaire<sup>1,2</sup>

How is Wattage determined

Total number luminaires<sup>2</sup>

Luminaire Status<sup>2</sup>

Excluded per §140.7(a)

Design Watts

Cutoff Req. > 6,200 initial lumen output §130.2(b)<sup>1</sup>

Field Inspector

MUSCO

MUSCO

☐ Linear

1960

Mfr. Spec

2

New

☒

---

NA < 6200 lumens

☐

☐

\$2,3,5

\$2,4,5

☐ Linear

37

Mfr. Spec

10

New

☐

370

NA < 6200 lumens

☐

☐

Total Design Watts:

370

<sup>1</sup> NOTES: Selections with a \* require a note in the space below explaining how compliance is achieved.  
<sup>2</sup> Luminaire is lighting a statue: EXCEPTION 2 to §130.2(b)  
<sup>3</sup> FOOTNOTES: Authority Having Jurisdiction may ask for Luminaire cut sheets to confirm wattage used for compliance per §130.0(c)  
<sup>4</sup> For linear luminaires, wattage should be indicated as W/ft instead of Watts/luminaire. Total linear feet should be indicated in column 05 instead of number of luminaires.  
<sup>5</sup> Select "New" for new luminaires in a new outdoor lighting project, or for added luminaires in an alteration. Select "Altered" for replacement luminaires in an alteration. Select "Existing to Remain" for existing luminaires within the project scope that are not being altered and are remaining. Select "Existing Reinstated" for existing luminaires which are being removed and reinstalled as part of the project scope.  
<sup>6</sup> Compliance with mandatory cutoff requirements is required for luminaires with initial lumen output >= 6,200 unless exempted by §130.2(b)

G. CUTOFF REQUIREMENTS (BUG)

This section does not apply to this project.

Registration Number:

Registration Date/Time:

Registration Provider: Energysoft

CA Building Energy Efficiency Standards - 2019 Nonresidential Compliance

Report Version: 2019.1.003

Schema Version: rev 20200601

Report Generated: 2022-01-20 14:25:04

STATE OF CALIFORNIA

CALIFORNIA ENERGY COMMISSION

NRCC-LTO-E

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CERTIFICATE OF COMPLIANCE

Project Name: Contra Loma Estates Park

Report Page: (Page 4 of 7)

Project Address: Mahogany Way

Date Prepared: 1/20/2022

H. OUTDOOR LIGHTING CONTROLS

This table demonstrates compliance with controls requirements for all new or altered luminaires installed as part of the permit application. For alteration projects, luminaires which are existing to remain (ie untouched) and luminaires which are removed and reinstalled (wiring only) do not need to be included in this table even if they are within the spaces covered by the permit application. When an option having a \* is selected, the notes section of this table must be completed. The lighting controls section of the Compliance Summary Table on the first page will show "DOES NOT COMPLY" if the notes are left blank.

Mandatory Controls

01

02

03

04

05

Area Description

Shut Off §130.2(c)(1)

Auto-Schedule §130.2(c)(2)

Motion Sensor §130.2(c)(3)

Field Inspector

Walkway

Photocontrol

Yes

Exempt\*

☐

☐

\* NOTES: Controls with a \* require a note in the space below explaining how compliance is achieved.  
EX: Not permitted by health & safety to be turned off: EXCEPTION 1 to §130.2(c)

Walkway

<40W

Registration Number:

Registration Date/Time:

Registration Provider: Energysoft

CA Building Energy Efficiency Standards - 2019 Nonresidential Compliance

Report Version: 2019.1.003

Schema Version: rev 20200601

Report Generated: 2022-01-20 14:25:04

STATE OF CALIFORNIA

CALIFORNIA ENERGY COMMISSION

NRCC-LTO-E

NRCC-LTO-E

CERTIFICATE OF COMPLIANCE

Project Name: Contra Loma Estates Park

Report Page: (Page 5 of 7)

Project Address: Mahogany Way

Date Prepared: 1/20/2022

I. LIGHTING POWER ALLOWANCE (per §140.7)

This table includes areas using allowance calculations per §140.7. General Hardscape Allowance is per Table 140.7-A while "Use it or lose it" Allowances are per Table 140.7-B. Indicate which allowances are being used to expand sections for user input. Luminaires that qualify for one of the "Use it or lose it" allowances shall not qualify for another "Use it or lose it" allowance.

☒ General Hardscape Allowance Table I (below)

01

"Use it or lose it" Allowance (select all that apply) (select all that apply)

☐ Per Application Table J

☐ Sales Frontage Table K

☐ Ornamental Table L

☐ Per Specific Area Table M

Calculated General Hardscape Lighting Power Allowance per Table 140.7-A (L2 0, 1 & 4)

This section does not apply to this project.

Calculated General Hardscape Lighting Power Allowance per Table 140.7-A (L2 2 & 3)

02

03

04

05

06

07

08

09

10

Area Description

Surface Type

Illuminated Area (ft<sup>2</sup>)

Allowed Density (W/ft<sup>2</sup>)

Area Allowance (Watts)

Perimeter Length (ft)

Allowed Density (W/ft)

Linear Allowance (Watts)

Total General AWA + LWA (Watts)

Park

Concrete

2000

0.03

60

2500

0.4

1000

1060

Initial Wattage Allowance for Entire Site (Watts):

350

Total General Hardscape Allowance (Watts):

1410

J. LIGHTING ALLOWANCE: PER APPLICATION

This section does not apply to this project.

K. LIGHTING ALLOWANCE: SALES FRONTAGE

This section does not apply to this project.

L. LIGHTING ALLOWANCE: ORNAMENTAL

This section does not apply to this project.

M. LIGHTING ALLOWANCE: PER SPECIFIC AREA

This section does not apply to this project.

Registration Number:

Registration Date/Time:

Registration Provider: Energysoft

CA Building Energy Efficiency Standards - 2019 Nonresidential Compliance

Report Version: 2019.1.003

Schema Version: rev 20200601

Report Generated: 2022-01-20 14:25:04

STATE OF CALIFORNIA

CALIFORNIA ENERGY COMMISSION

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NRCC-LTO-E

CERTIFICATE OF COMPLIANCE

Project Name: Contra Loma Estates Park

Report Page: (Page 6 of 7)

Project Address: Mahogany Way

Date Prepared: 1/20/2022

N. EXISTING CONDITIONS POWER ALLOWANCE (alterations only)

This section does not apply to this project.

O. DECLARATION OF REQUIRED CERTIFICATES OF INSTALLATION

Selections have been made based on information provided in this document. If any selection have been changed by permit applicant, an explanation should be included in Table E. Additional Remarks: These documents must be provided to the building inspector during construction and can be found online at https://www.energy.ca.gov/title24/2019standards/2019\_compliance\_documents/Nonresidential\_Documents/NRCL/

Yes

No

Form/Title

Field Inspector

☒

☒

NRCC-LTO-01-E - Must be submitted for all buildings

☐

☐

☒

☒

NRCC-LTO-02-E - Must be submitted for a lighting control system, or for an Energy Management Control System (EMCS), to be recognized for compliance.

☐

☐

P. DECLARATION OF REQUIRED CERTIFICATES OF ACCEPTANCE

Selections have been made based on information provided in this document. If any selection have been changed by permit applicant, an explanation should be included in Table E. Additional Remarks: These documents must be provided to the building inspector during construction and must be completed through an Acceptance Test Technician Certification Provider (ATTCP). For more information visit: http://www.energy.ca.gov/title24/attcp/providers.html

Yes

No

Form/Title

Field Inspector

☒

☒

NRCA-LTO-02-A - Must be submitted for all outdoor lighting controls except for alterations where controls are added to <= 20 luminaires.

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Registration Number:

Registration Date/Time:

Registration Provider: Energysoft

CA Building Energy Efficiency Standards - 2019 Nonresidential Compliance

Report Version: 2019.1.003

Schema Version: rev 20200601

Report Generated: 2022-01-20 14:25:04

STATE OF CALIFORNIA

CALIFORNIA ENERGY COMMISSION

NRCC-LTO-E

NRCC-LTO-E

CERTIFICATE OF COMPLIANCE

Project Name: Contra Loma Estates Park

Report Page: (Page 7 of 7)


Project Address: Mahogany Way

Date Prepared: 1/20/2022

DOCUMENTATION AUTHOR'S DECLARATION STATEMENT

I certify that this Certificate of Compliance documentation is accurate and complete.

Documentation Author Name: Garrett Otto

Documentation Author Signature: 

Company: Otto Electrical

Signature Date: 2022-01-20

Address: 793 E. Foothill Blvd, Suite A23

City/State/Zip: San Luis Obispo CA 93405

Phone: 805.459.4329

RESPONSIBLE PERSON'S DECLARATION STATEMENT

I certify the following under penalty of perjury, under the laws of the State of California:

1. The information provided on this Certificate of Compliance is true and correct.


2. I am eligible under Division 3 of the Business and Professions Code to accept responsibility for the building design or system design identified on this Certificate of Compliance (reasonable designer).

3. The energy features and performance specifications, materials, components, and manufactured devices for the building design or system design identified on this Certificate of Compliance conform to the requirements of Title 24, Part 1, and Part 6 of the California Code of Regulations.

4. The building design features or system design features identified on this Certificate of Compliance are consistent with the information provided on other applicable compliance documents, worksheets, calculations, plans and specifications submitted to the enforcement agency for approval with this building permit application.

5. I will ensure that a completed signed copy of this Certificate of Compliance shall be made available with the building permit(s) issued for the building, and made available to the enforcement agency for all applicable inspections. I understand that a completed signed copy of this Certificate of Compliance is required to be included with the documentation the builder provides to the building owner at occupancy.

Responsible Designer Name: Garrett Otto

Responsible Designer Signature: 

Company: Otto Electrical, Inc.

Date Signed: 2022-01-20

Address: 793 E. Foothill Blvd Suite A23

City/State/Zip: San Luis Obispo CA 93405

Phone: 805.459.4329

Registration Number:

Registration Date/Time:

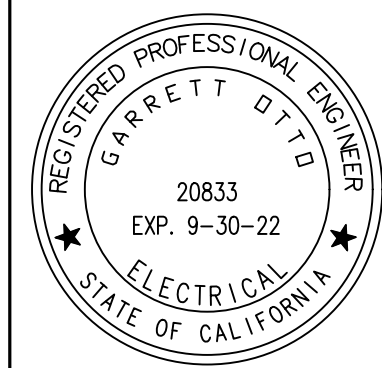
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OTTO

ELECTRICAL

OTTO ELECTRICAL, INC.  
SAN LUIS OBISPO, CA  
GOTTO@OTTOELECTRICAL.COM  
805.459.4329

90% CDs

DATE ACCEPTED: \_\_\_\_\_  
INSPECTED BY: \_\_\_\_\_  
AS BUILT REVISIONS:  
DATE: \_\_\_\_\_  
BY: \_\_\_\_\_

DATE: 2/3/2022  
DESIGNED BY: GO  
CHECKED BY: GO  
DRAWN BY: GO  
REVISIONS:

APPROVED BY:  
DIRECTOR OF PUBLIC WORKS/  
CITY ENGINEER  
DATE: C.E.  
NO. BY DATE

PUBLIC WORKS DEPARTMENT  
CAPITAL IMPROVEMENTS DIVISION  
CONTRA LOMA ESTATES PARK  
RENOVATION PROJECT  
TITLE 24 – OUTDOOR LIGHTING  
E500

SCALE: PER DETAIL  
PUBLIC WORKS  
PROJECT NO.  
SHEET XX  
OF XX SHEETS

FILE LOCATION/NAME:





*City of Antioch*

# CONTRA LOMA ESTATES PARK RENOVATION

Parks and Recreation Commission  
Meeting

July 21, 2022

**ANTIOCH**  
CALIFORNIA





# AGENDA

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- Existing Site
- Proposed Site Plan
- Proposed Amenities



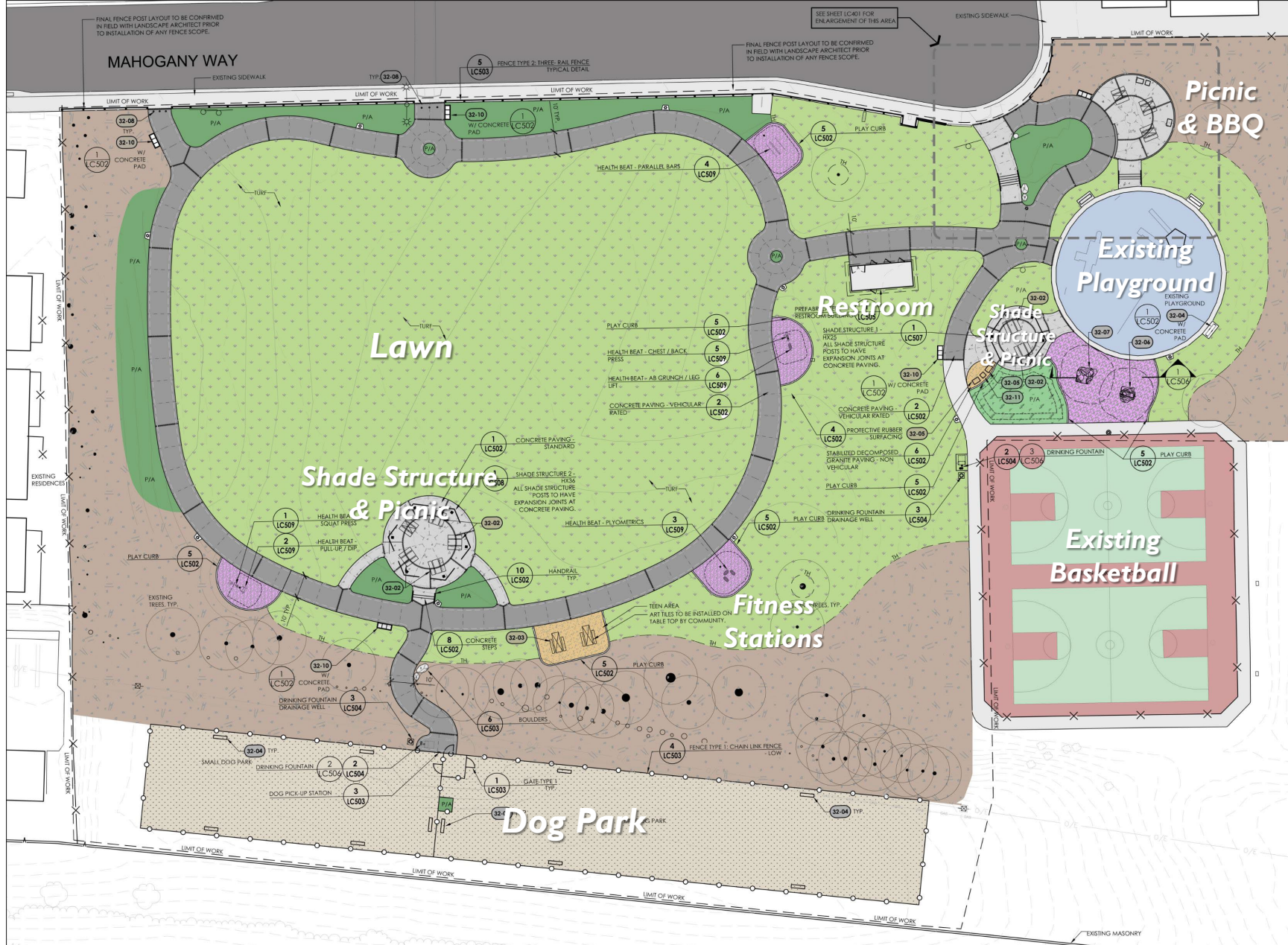


**Contra Loma  
Estates Park**

**PROJECT SITE**



# PROPOSED SITE PLAN



## MATERIALS LEGEND

SYMBOL	TYPE	DESCRIPTION	DETAIL(S)
	CONCRETE PEDESTRIAN	SEE DETAILS	
	CONCRETE VEHICULAR	SEE DETAILS	
	TURF	FESCUE BLEND	
	BIORETENTION AREAS	SEE CIVIL PLANS	
	PROTECTIVE RUBBER SURFACING	SEE DETAIL	
	MULCH	3" - SEE SPECIFICATIONS (SEE PLANTING PLAN FOR PLANTING AREAS)	
	GRAVEL	SEE SPECIFICATIONS	
	STABILIZED DECOMPOSED GRANITE	SEE DETAIL	
	PLANTING AREA		
	FENCE TYPE 1	CHAIN LINK FENCE - LOW	
	FENCE TYPE 2	THREE-RAIL FENCE	
	EXISTING TREE TO REMAIN		
	POLE LIGHT	SEE ELECTRICAL PLANS / DETAILS	
	CONTRACTION JOINT	SEE DETAILS	
	EXPANSION JOINT	SEE DETAILS	
	TIMBER HEADER	SEE DETAILS	
	THICKENED CONCRETE EDGE	SEE DETAILS	

## NOTES

1. SEE SHEET G001 FOR SYMBOL LEGEND.
2. SEE SHEET LC001 FOR REFERENCE NOTES.
3. SEE CH SERIES SHEETS FOR HORIZONTAL CONTROL POINTS.
4. SEE CG SERIES SHEETS FOR GRADING.



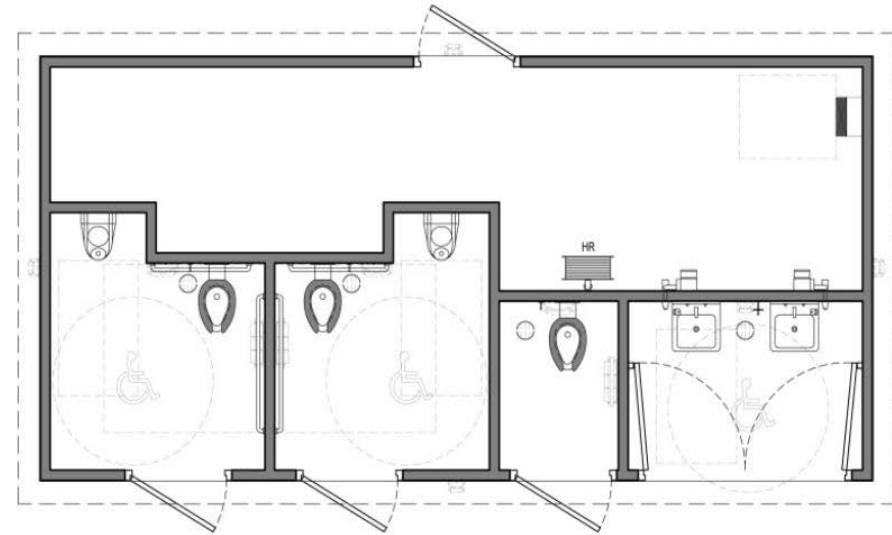




PRECEDENT IMAGES FROM ANTIOCH MARINA PROJECT



RESTROOMS, SINGLE-OCCUPANT ROOMS



RESTROOMS, FOOTPRINT





BENCHES - Victor Stanley RBF-28-6



PICNIC TABLES (W/ ADA OPTIONS) - DuMor 298-60-2HS ADA



CONCRETE TABLES (ART TABLES) - QCP Q-LBT102PT ADA



TRASH RECEPTACLES - Outdoor Creations Inc 516



BBQ GRILLS - Pilot Rock N-24



HOT COAL BINS - Pilot Rock HCB/B-I



BOLLARDS - Reliance Foundry R-7901R

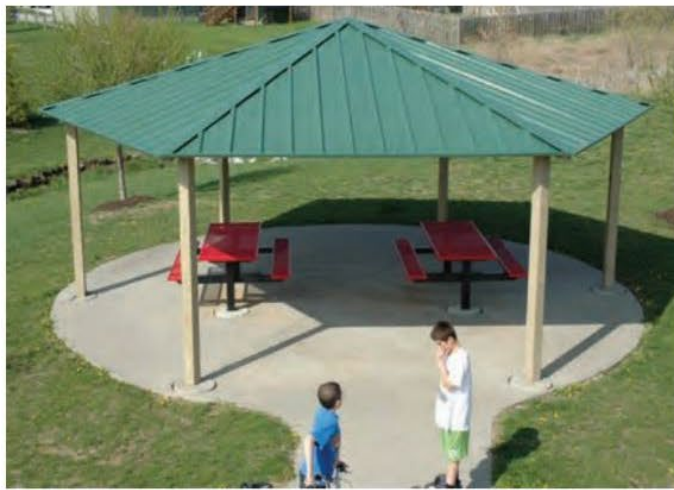


DOG PICK UP STATION - Mutt Mitt Waste Bag Dispenser SKU 2401



DRINKING FOUNTAINS - ELKAY LK4420BF1UDB





PICNIC SHELTER - Icon Shelter Systems, Inc.



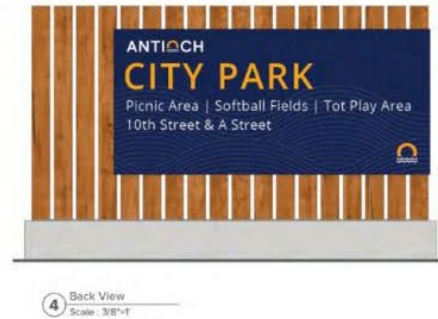
DOG PARK MULCH - American Soil and Stone Redwood Wood Chips



DOG PARK WITH CHAIN LINK FENCE AND MULCH



CITY PARK SIGNAGE - Neighborhood Park Identity



CONCRETE PAVING



RUBBER SURFACING





CLIMBING WALLS - Landscape Structures,  
The Pinnacle (#156065 A)



CLIMBING WALLS - Landscape Structures,  
The Pointe (#156067 A)



FITNESS EQUIPMENT -  
Health Beat Squat Press



FITNESS EQUIPMENT - Health Beat Parallel Bars



FITNESS EQUIPMENT -  
Health Beat Chest / Back Press



FITNESS EQUIPMENT - Health Beat Ab Crunch / Leg Lift



FITNESS EQUIPMENT - Health Beat Pull  
Up / Dip



FITNESS EQUIPMENT - Health Beat  
Plyometrics



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End Slide