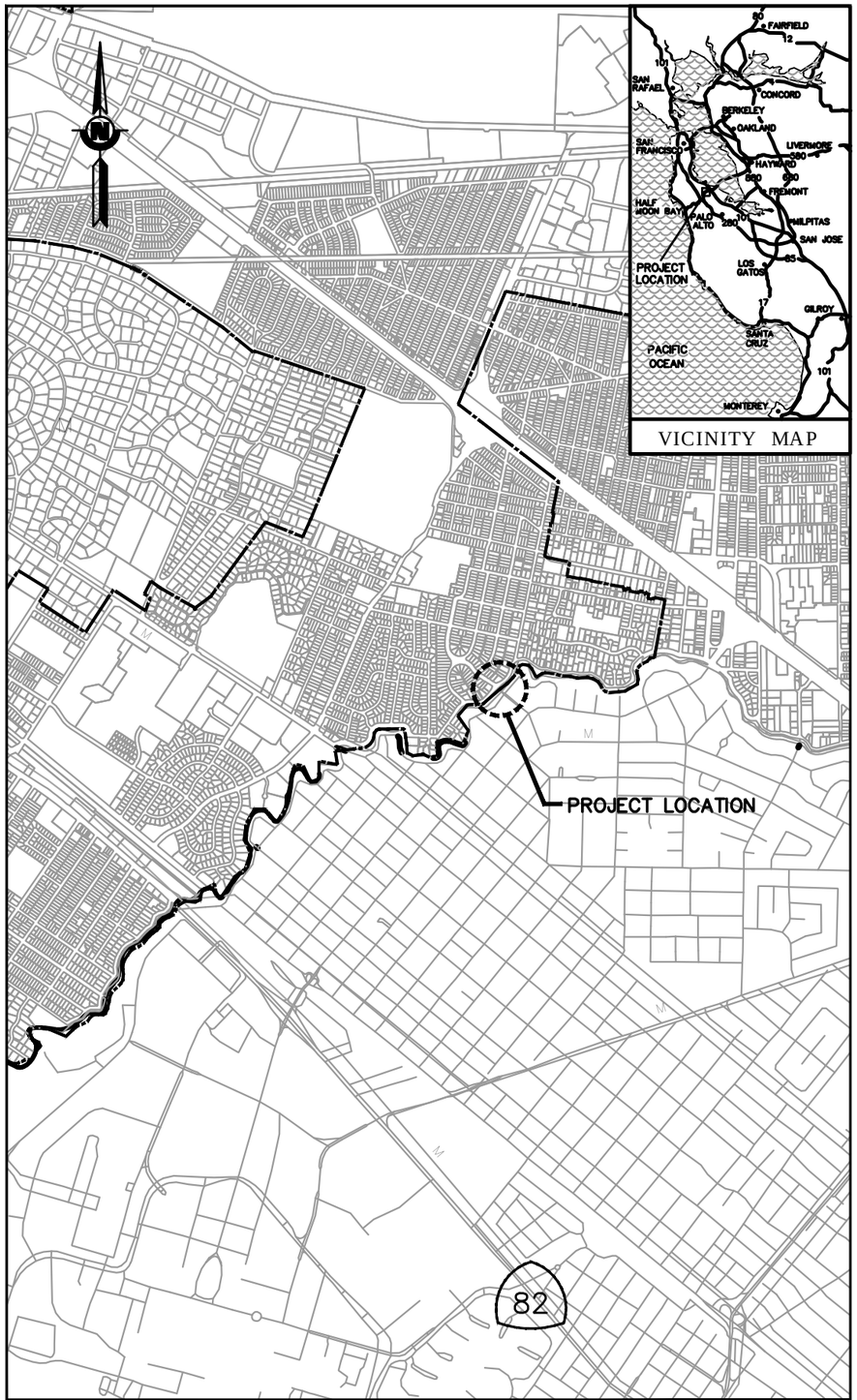


LOCATION MAP
SCALE: 1" = 1,200'

MAP AND CONSTRUCTION PLAN

FOR

SAN FRANCISQUITO CREEK POPE/CHAUCER STREET

POPE/CHAUCER STREET BRIDGE REPLACEMENT

AT SAN FRANCISQUITO CREEK

Valley Water

PREPARED BY:

NV5
2025 GATEWAY PLACE, SUITE 238 SAN JOSE, CA 95110
408.392.7200 TEL 408.392.0101 FAX WWW.NV5.COM

RUSS NYGAARD, PE DATE
PROJECT MANAGER
NV5

APPROVED BY:

NAME (SPM – CPSD OR UM) DATE
TITLE – DIVISION
SANTA CLARA VALLEY WATER DISTRICT

NAME (AOO – CPSD OR DOO) DATE
TITLE – DIVISION
SANTA CLARA VALLEY WATER DISTRICT

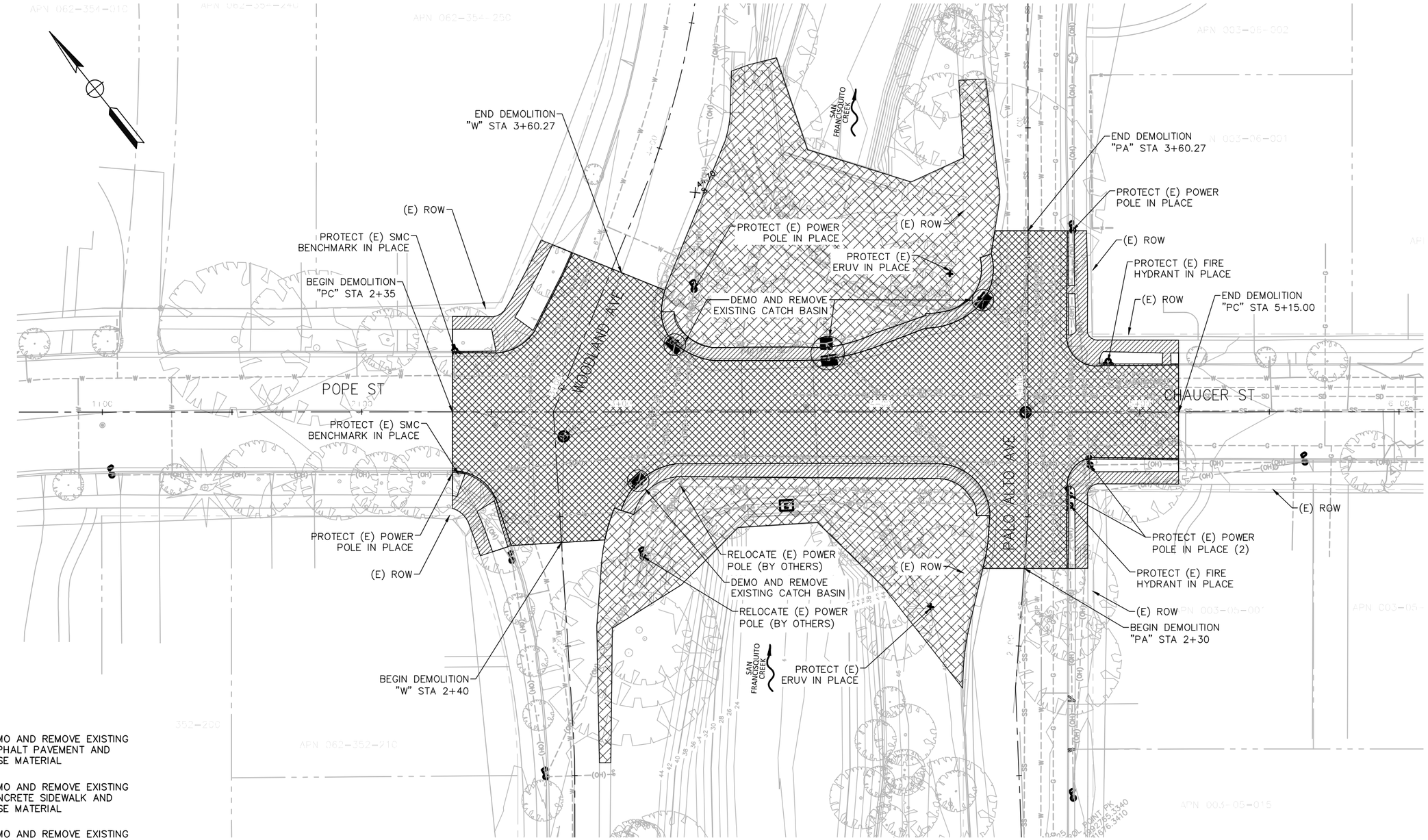
ACCEPTED BY:

NAME (DOO – OWNER) DATE
TITLE – DIVISION
SANTA CLARA VALLEY WATER DISTRICT

NOT FOR CONSTRUCTION
80% PRELIMINARY
May 20, 2020

CONTRACT NUMBER	C-XXXXX
PROJECT NUMBER	26284001
SHEET CODE:	G-01
SHEET NUMBER:	1 OF TBD

DOCUMENT NUMBER: XXXX-X-0000-0000000.00



LEGEND

- DEMO AND REMOVE EXISTING ASPHALT PAVEMENT AND BASE MATERIAL
- DEMO AND REMOVE EXISTING CONCRETE SIDEWALK AND BASE MATERIAL
- DEMO AND REMOVE EXISTING CULVERT

PLAN

SCALE
1" = 20'

REV	DESCRIPTION	DATE	APPR.	REFERENCE INFORMATION AND NOTES

NV5
2025 GATEWAY PLACE, SUITE 238
SAN JOSE, CA 95110
408.392.7222 TEL
408.392.0101 FAX
WWW.NV5.COM

DATE	
5/6/2020	
DESIGN	RAM
DRAWN	RAM
CHECKED	RN

ENGINEERING CERTIFICATION

REGISTERED PROFESSIONAL ENGINEER
RUSSELL A. NYGARD
No. C-50369
Exp. 6-30-21
CIVIL
STATE OF CALIFORNIA

NOT FOR CONSTRUCTION

ENGINEER DATE

SANTA CLARA VALLEY WATER DISTRICT

Valley Water

PROJECT ENGINEER ACCEPTED BY DISTRICT DATE

PROJECT NAME AND SHEET DESCRIPTION:

POPE/CHAUCER STREET BRIDGE REPLACEMENT
AT SAN FRANCISQUITO CREEK

DEMOLITION PLAN

SCALE: AS SHOWN

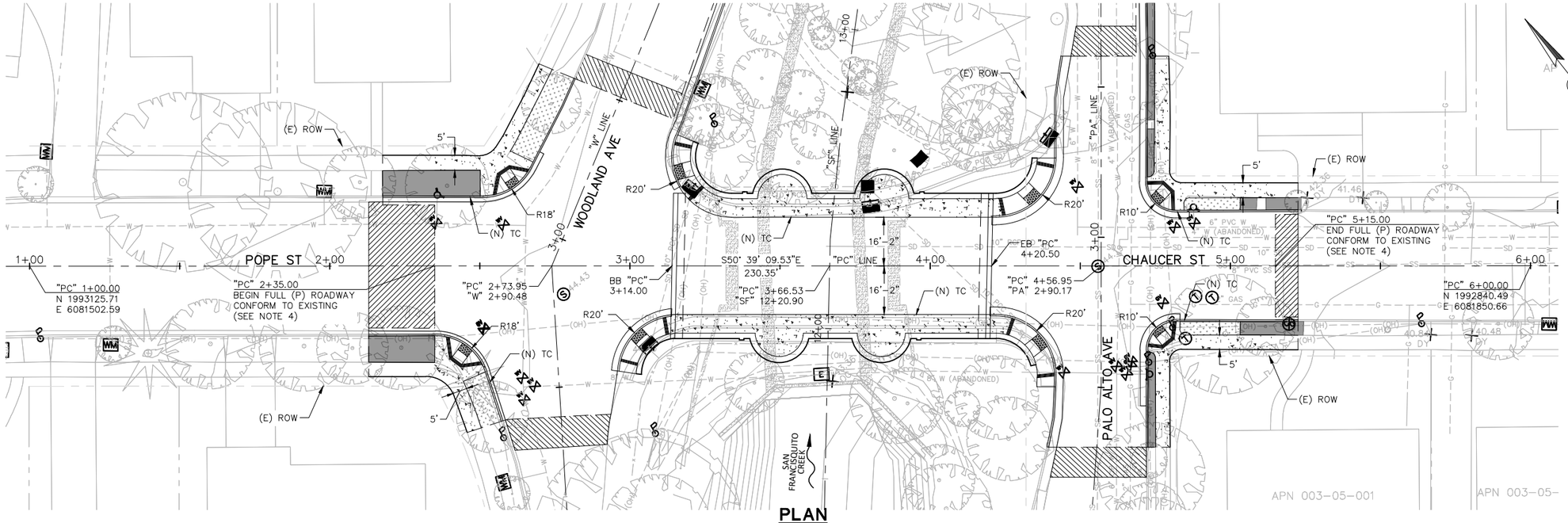
VERIFY SCALES
0 1"
BAR IS ONE INCH ON ORIGINAL DRAWING
IF NOT ONE INCH ON THIS SHEET, ADJUST SCALES ACCORDINGLY

PROJECT NUMBER: 26284001

SHEET CODE: D-01

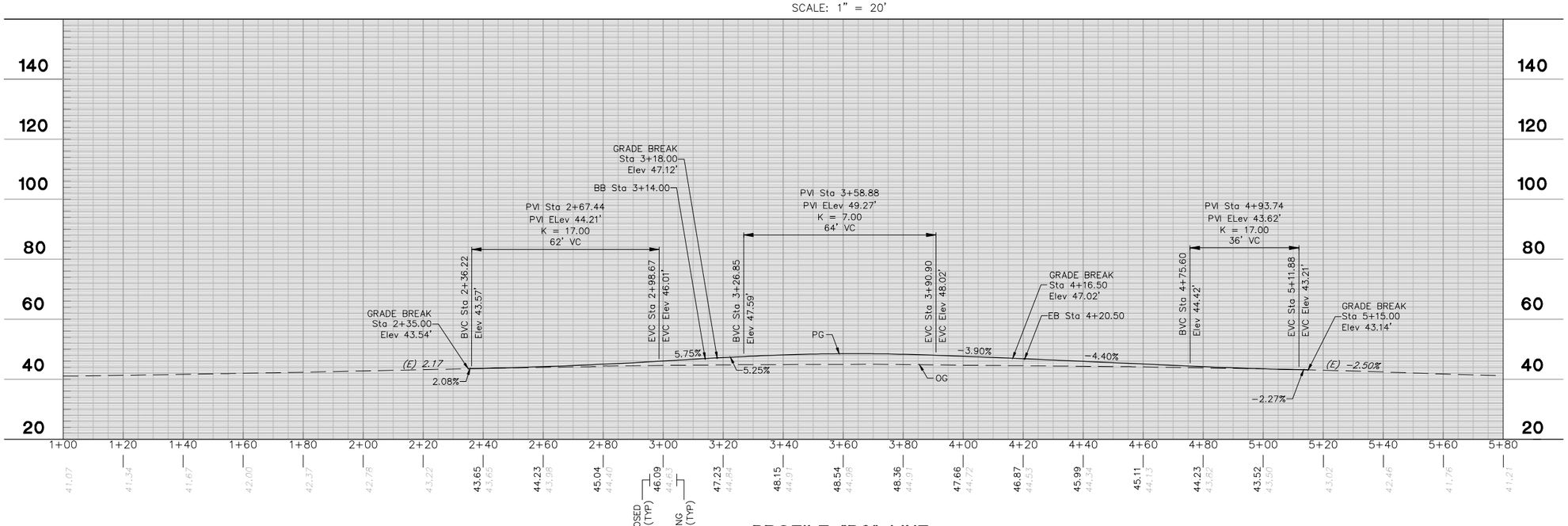
SHEET NUMBER: 4 OF TBD

DOCUMENT NUMBER: XXXX-X-0000-0000000.00



PLAN

SCALE: 1" = 20'



PROFILE "PC" LINE

H: 1" = 20'
V: 1" = 20'

NOTES:

1. FOR LEGEND AND LIST AND ABBREVIATIONS, SEE SHEET G-02.
2. FOR WOODLAND AVE IMPROVEMENTS, SEE SHEET C-02.
3. FOR PALO ALTO AVE IMPROVEMENTS, SEE SHEET C-03.
4. CONFORM NEW ROAD TO EXISTING PER TYPICAL CONFORM DETAIL, SEE SHEET G-03.
5. FOR PAVEMENT DELINEATION PLANS, SEE SHEET C-09.
6. FOR DEMOLITION PLAN, SEE SHEET D-01.

LEGEND

- LANDSCAPED AREA
- BIOSWALE AREA
- PCC SIDEWALK/DRIVEWAY
- PAVEMENT CONFORM AREA

REV	DESCRIPTION	DATE	APPR.	REFERENCE INFORMATION AND NOTES

NV5
2025 GATEWAY PLACE, SUITE 238
SAN JOSE, CA 95110
408.392.7222 TEL
408.392.0101 FAX
WWW.NV5.COM

DATE 12/1/2020
DESIGN RAM
DRAWN RAM
CHECKED RN

ENGINEERING CERTIFICATION
REGISTERED PROFESSIONAL ENGINEER RUSSELL A. NYGARD No. C-50369 Exp. 6-30-21 CIVIL STATE OF CALIFORNIA
NOT FOR CONSTRUCTION
ENGINEER DATE

SANTA CLARA VALLEY WATER DISTRICT
Valley Water
PROJECT ENGINEER ACCEPTED BY DISTRICT DATE

PROJECT NAME AND SHEET DESCRIPTION:

POPE/CHAUCER STREET BRIDGE REPLACEMENT
AT SAN FRANCISQUITO CREEK

POPE/CHAUCER STREET
PLAN & PROFILE 1

SCALE: AS SHOWN
VERIFY SCALES: 0 — 1"
BAR IS ONE INCH ON ORIGINAL DRAWING IF NOT ONE INCH ON THIS SHEET, ADJUST SCALES ACCORDINGLY

PROJECT NUMBER: 26284001
SHEET CODE: C-01
SHEET NUMBER: 8 OF TBD

USERNAME: MonteR 12/1/2020 10:10 AM
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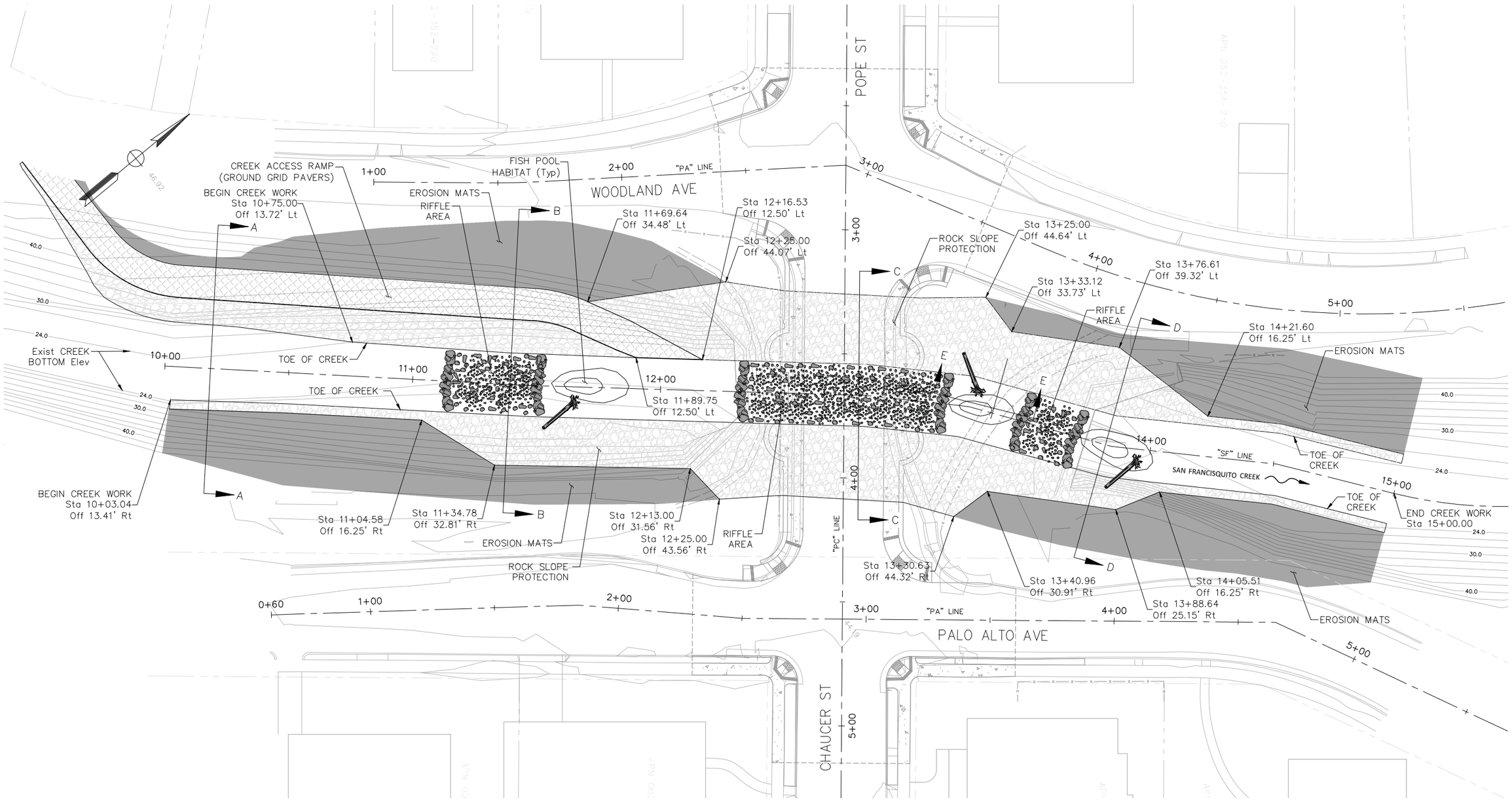


REV	DESCRIPTION	DATE	APPR.

REFERENCE INFORMATION AND NOTES

NV5
2025 GATEWAY PLACE, SUITE 238
SAN JOSE, CA 95110
408.392.7222 TEL
408.392.0101 FAX
WWW.NV5.COM

DATE 5/20/2020
DESIGN RAM
DRAWN RAM
CHECKED RN

ENGINEERING CERTIFICATION
REGISTERED PROFESSIONAL ENGINEER RUSSELL A. NYGARD No. C-50369 Exp. 6-30-21 CIVIL STATE OF CALIFORNIA
NOT FOR CONSTRUCTION
ENGINEER DATE

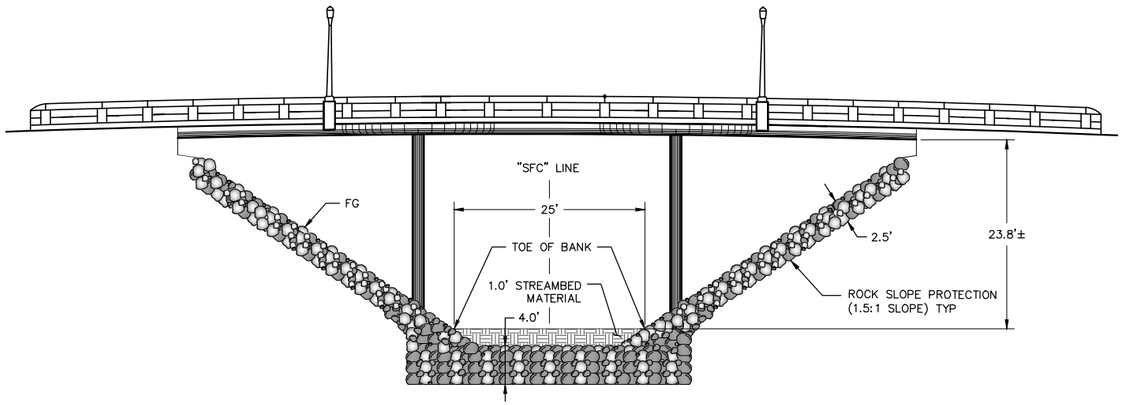
SANTA CLARA VALLEY WATER DISTRICT
Valley Water
PROJECT ENGINEER ACCEPTED BY DISTRICT DATE

PROJECT NAME AND SHEET DESCRIPTION:
POPE/CHAUCER STREET BRIDGE REPLACEMENT AT SAN FRANCISQUITO CREEK
SAN FRANCISQUITO CREEK CHANNEL PLAN

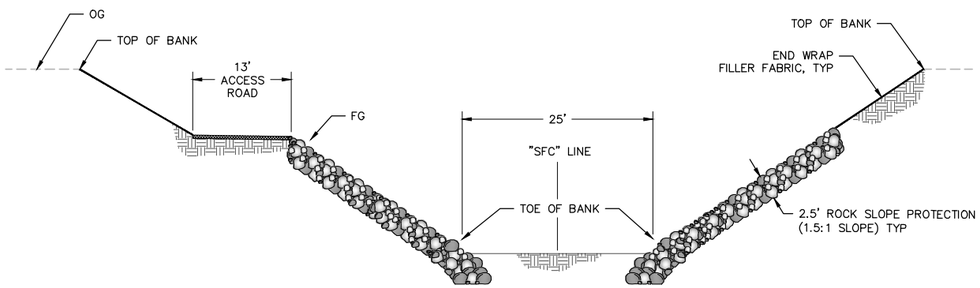
SCALE: AS SHOWN
VERIFY SCALES: 0 1"
BAR IS ONE INCH ON ORIGINAL DRAWING. IF NOT ONE INCH ON THIS SHEET, ADJUST SCALES ACCORDINGLY

PROJECT NUMBER: 26284001
SHEET CODE: C-08
SHEET NUMBER: 15 OF TBD

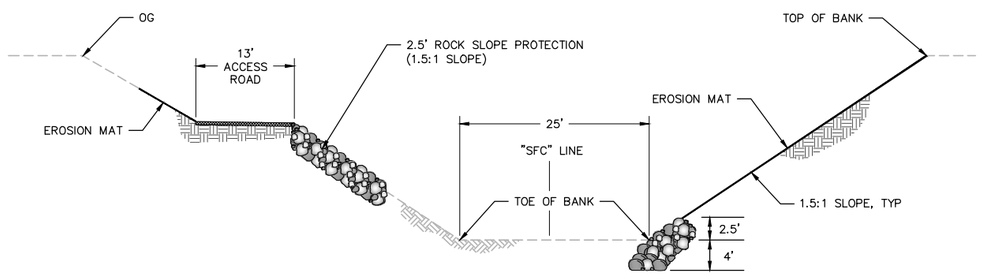
DOCUMENT NUMBER: XXXX-X-0000-0000000.00



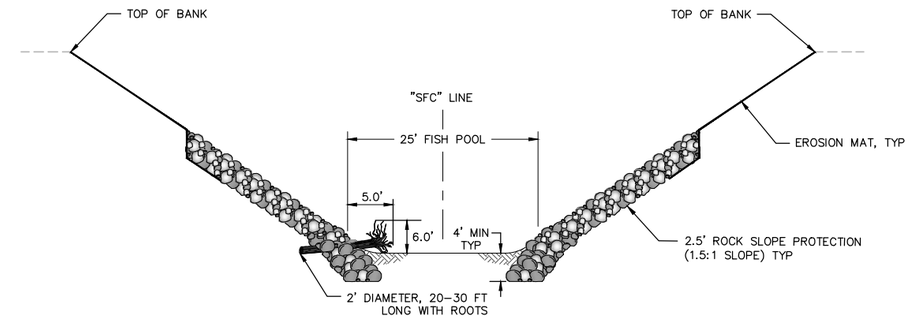
CHANNEL TYPICAL SECTION AT THE BRIDGE
(SECTION C–C)
NTS



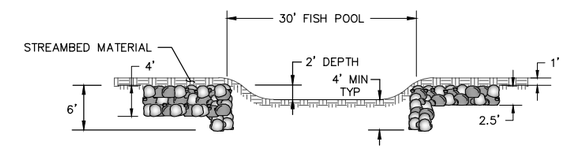
CHANNEL TYPICAL SECTION
(SECTION B–B)
NTS



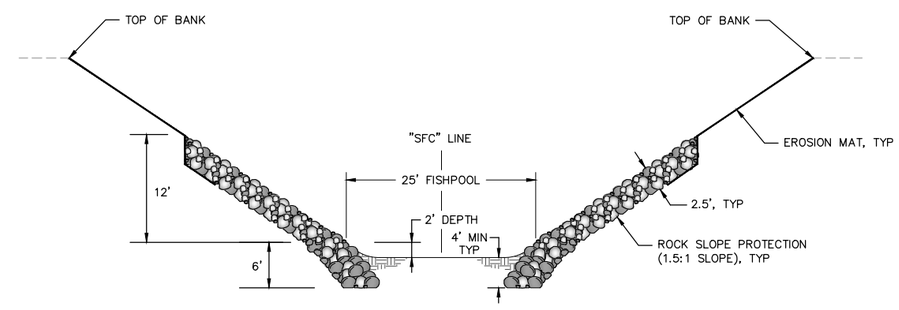
CHANNEL TYPICAL SECTION
(SECTION A–A)
NTS



ROOT WADS DETAIL
NTS



CHANNEL TYPICAL SECTION AT FISH POOL
(SECTION E–E)
NTS



CHANNEL TYPICAL SECTION AT FISH POOL
(SECTION D–D)
NTS

DOCUMENT NUMBER: XXXX-X-0000-0000000.00

REV	DESCRIPTION	DATE	APPR.	REFERENCE INFORMATION AND NOTES

NV5
2025 GATEWAY PLACE, SUITE 238
SAN JOSE, CA 95110
408.392.7222 TEL
408.392.0101 FAX
WWW.NV5.COM

DATE 5/18/2020
DESIGN RAM
DRAWN RAM
CHECKED RN

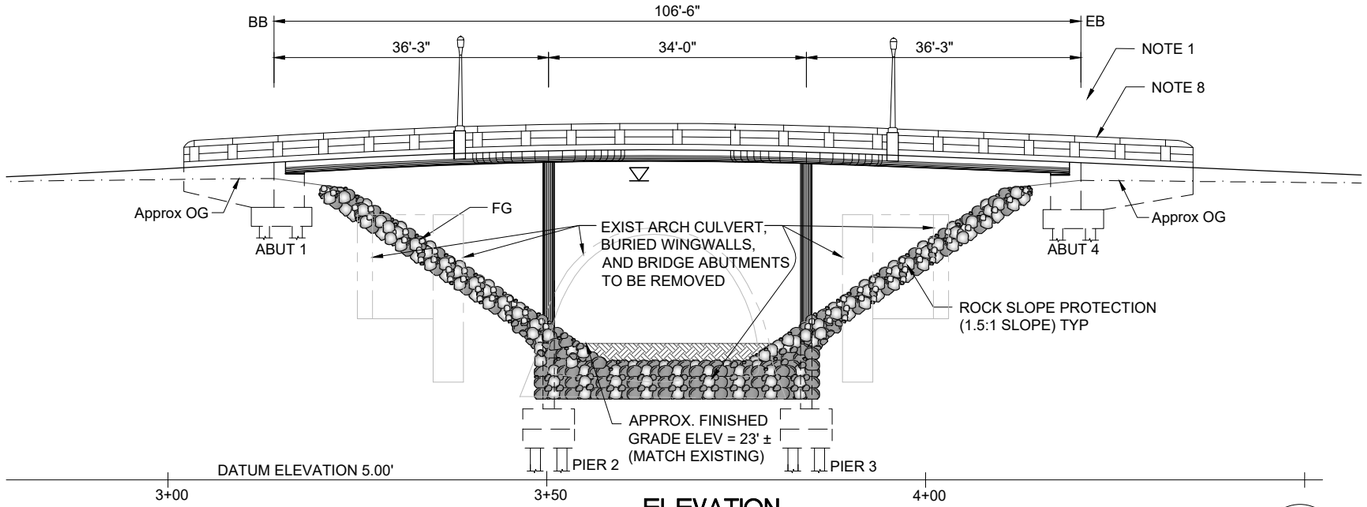
ENGINEERING CERTIFICATION
REGISTERED PROFESSIONAL ENGINEER RUSSELL A. NYGARD No. C-50369 Exp. 6-30-21 CIVIL STATE OF CALIFORNIA
NOT FOR CONSTRUCTION
ENGINEER DATE

SANTA CLARA VALLEY WATER DISTRICT
Valley Water
PROJECT ENGINEER ACCEPTED BY DISTRICT DATE

PROJECT NAME AND SHEET DESCRIPTION:
POPE/CHAUCER STREET BRIDGE REPLACEMENT
AT SAN FRANCISQUITO CREEK
POPE/CHAUCER STREET
CHANNEL TYPICAL SECTIONS

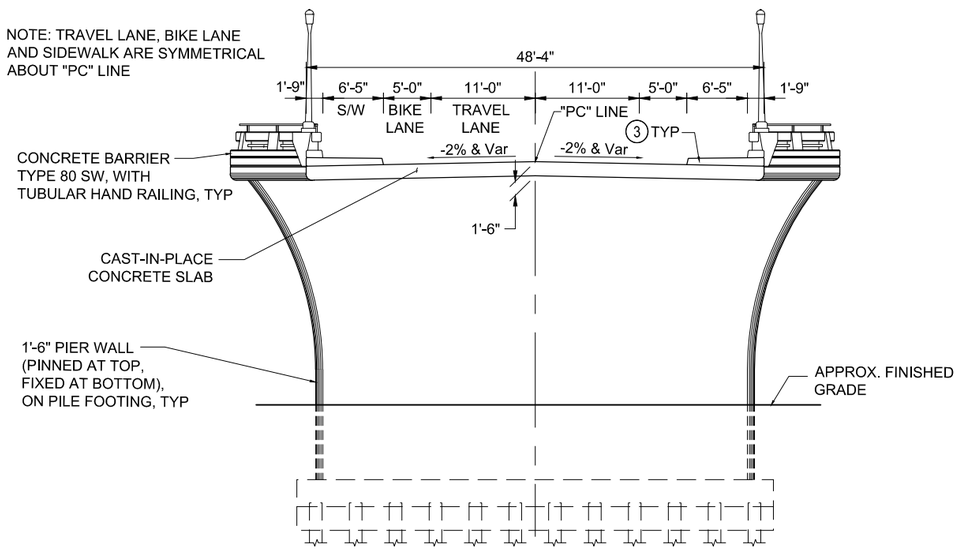
SCALE: AS SHOWN
VERIFY SCALES: 0 1"
BAR IS ONE INCH ON ORIGINAL DRAWING IF NOT ONE INCH ON THIS SHEET, ADJUST SCALES ACCORDINGLY

PROJECT NUMBER: 26284001
SHEET CODE: C–09
SHEET NUMBER: 16 OF TBD



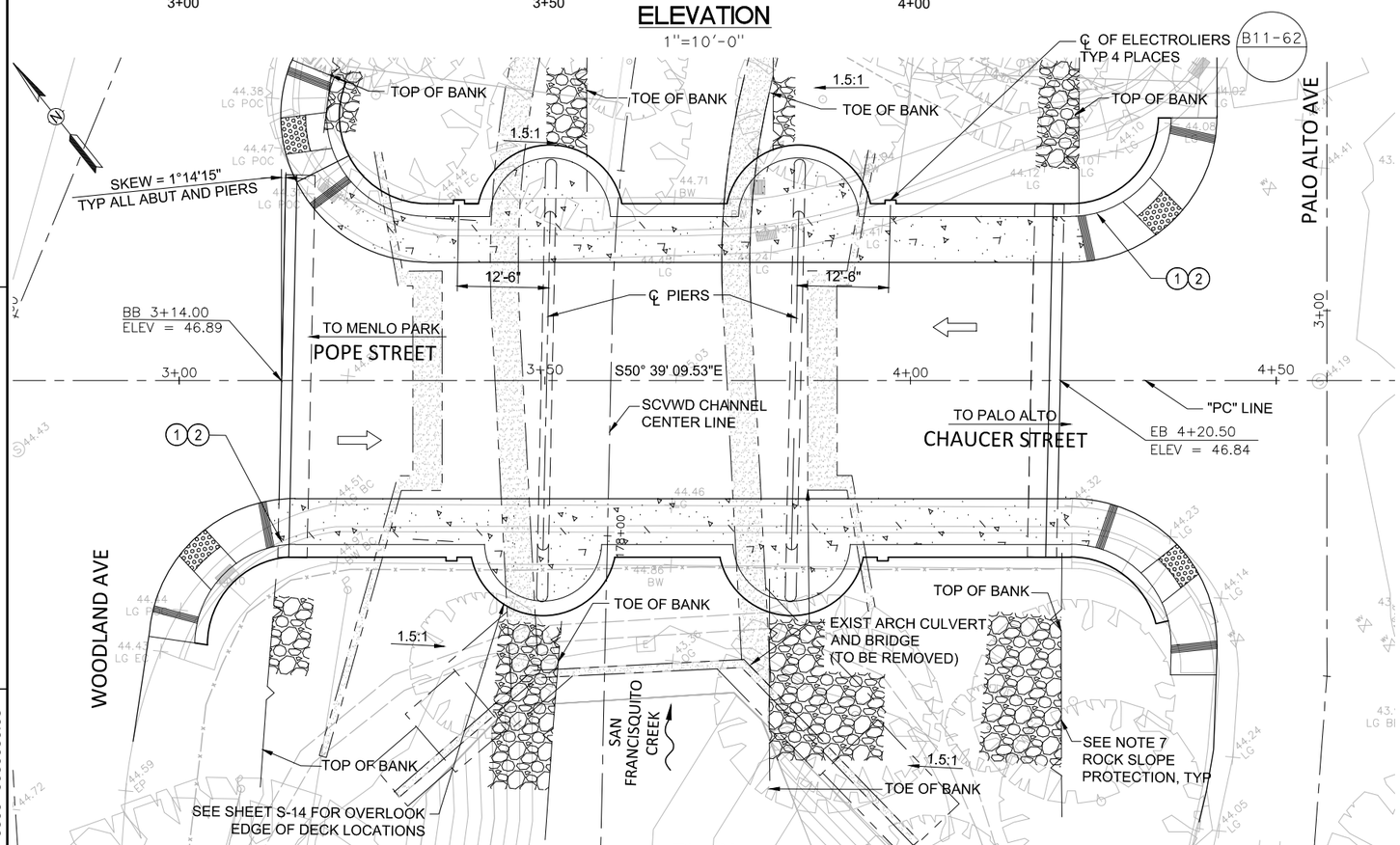
ELEVATION

1"=10'-0"



TYPICAL SECTION

$\frac{1}{8}$"=1'-0"



PLAN

1"=10'-0"

LEGEND:

1	PAINT "POPE/CHAUCER STREET BRIDGE"
2	PAINT "BRIDGE No. 37C0759" AND YEAR COMPLETED
3	2-4" DIA FUTURE UTILITY OPENINGS, Typ EACH SIDEWALK
	INDICATES NEW CONSTRUCTION (ABOVE GROUND)
	INDICATES NEW CONSTRUCTION (UNDER GROUND)
	INDICATES EDGE OF EXISTING STRUCTURES TO BE REMOVED
	INDICATES ROCK SLOPE PROTECTION. SEE SHEETS C-4 AND C-5 FOR DETAILS
	INDICATES DIRECTION OF TRAVEL
	HIGH WATER SURFACE

NOTES:

1. SEE SHEE S-2 FOR "PC" LINE PROFILE GRADE.
2. FOR ROADWAY INFORMATION NOT SHOWN, SEE "ROAD PLANS".
3. EXISTING DI'S AND UTILITIES NOT SHOWN.
4. FOR INDEX TO PLANS AND PILE DATA TABLE SEE "INDEX TO PLANS, NOTES, AND DETAILS" SHEET.
5. FOR GENERAL NOTES AND STANDARD PLAN LIST SEE "DECK CONTOURS AND NOTES" SHEET
6. THE CONTRACTOR SHALL VERIFY ALL CONTROLLING FIELD DIMENSIONS BEFORE ORDERING OR FABRICATING MATERIAL.
7. SEE SHEETS C-4 & C-5 FOR ROCK PROTECTION LOCATIONS AND DETAILS.
8. BARRIERS AND TUBULAR HAND RAILING SHALL BE CONSTRUCTED AND FABRICATED TO UNIFORMLY AND SMOOTHLY MATCH PROFILES OF TOP EDGE OF DECK AND WING WALLS. SUBMIT BARRIER AND RAILING SHOP DRAWINGS SHOWING PROFILE ELEVATIONS.

REV	DESCRIPTION	DATE	APPR.	REFERENCE INFORMATION AND NOTES

NV5
2025 GATEWAY PLACE, SUITE 238
SAN JOSE, CA 95110
408.392.7222 TEL
408.392.0101 FAX
WWW.NV5.COM

DATE 2/16/2020
DESIGN DGS
DRAWN RAM
CHECKED NS

ENGINEERING CERTIFICATION
REGISTERED PROFESSIONAL ENGINEER DAVID G. SCHOLZ S 2470 Exp. 9-30-21 STRUCTURAL STATE OF CALIFORNIA
NOT FOR CONSTRUCTION
ENGINEER DATE

SANTA CLARA VALLEY WATER DISTRICT
Valley Water
PROJECT ENGINEER ACCEPTED BY DISTRICT DATE

PROJECT NAME AND SHEET DESCRIPTION:

POPE/CHAUCER STREET BRIDGE REPLACEMENT AT SAN FRANCISQUITO CREEK

GENERAL PLAN

SCALE: AS SHOWN
VERIFY SCALES: 0 1"
BAR IS ONE INCH ON ORIGINAL DRAWING IF NOT ONE INCH ON THIS SHEET, ADJUST SCALES ACCORDINGLY

PROJECT NUMBER: 26284001
SHEET CODE: S-1
SHEET NUMBER: 15 OF 32

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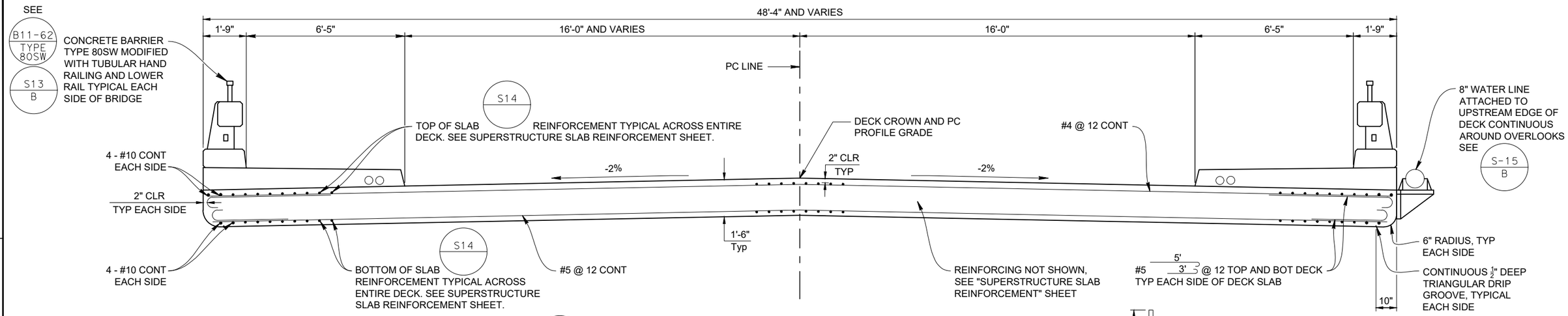
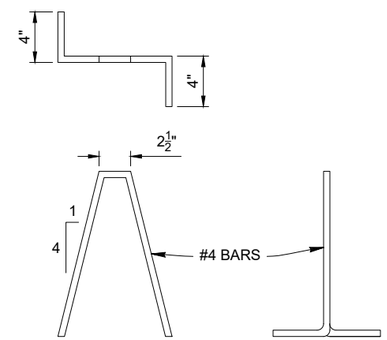


S13 A — TYPICAL TRANSVERSE DECK SLAB SECTION

1/2"=1'-0"

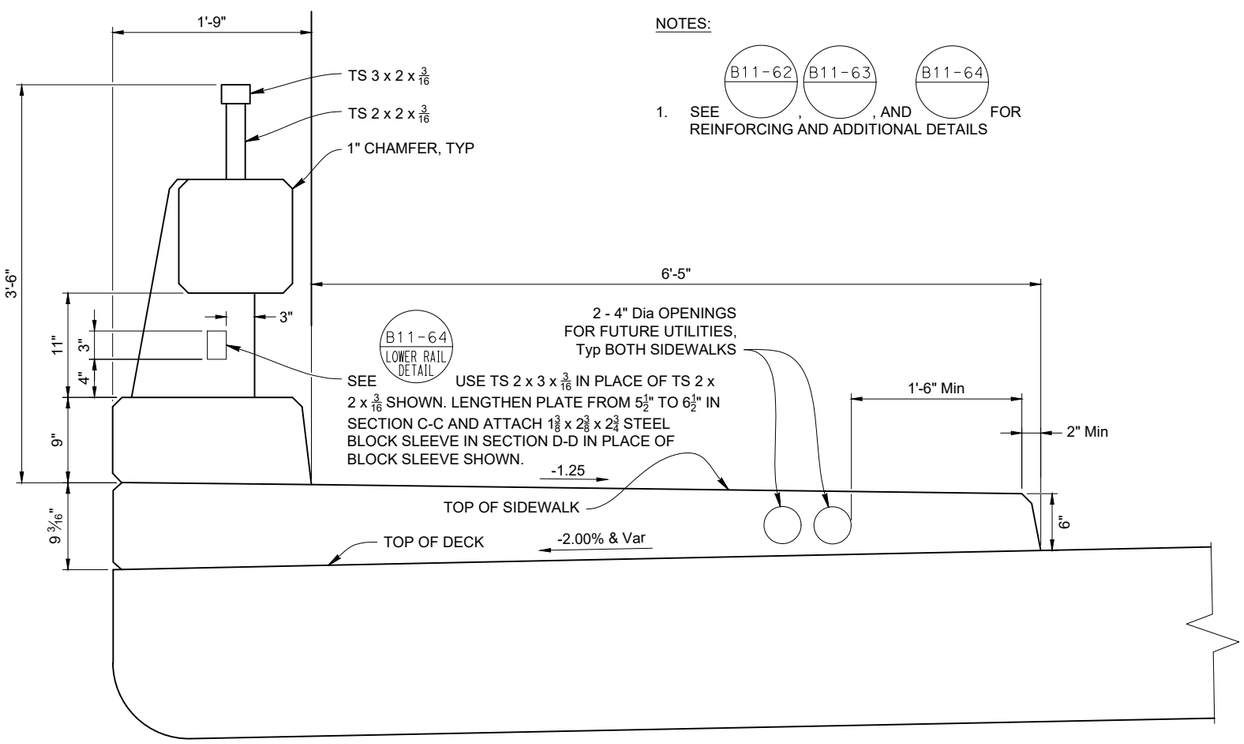


BAR CHAIR DETAIL

2"=1'-0"

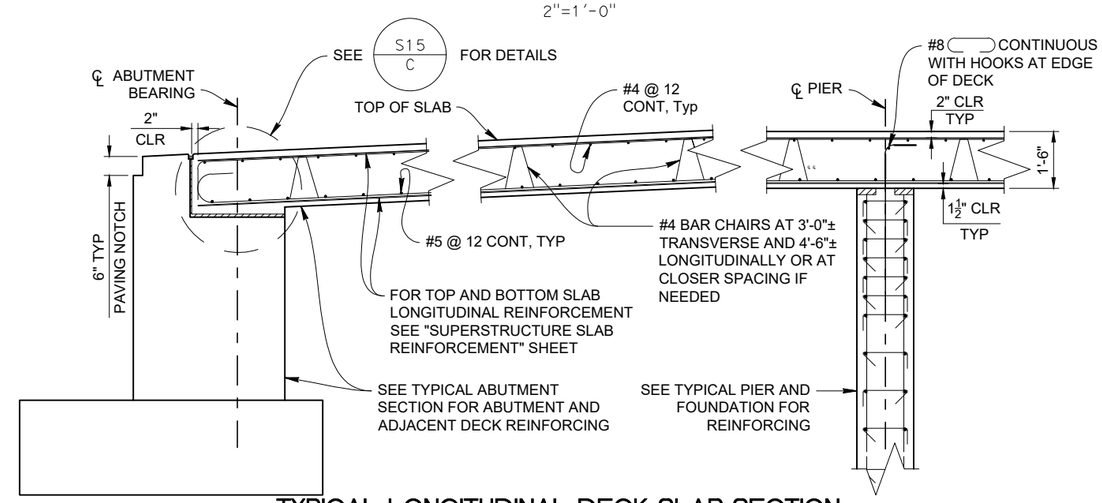
NOTES:

1. SEE B11-62, B11-63, AND B11-64 FOR REINFORCING AND ADDITIONAL DETAILS



S13 B — CONCRETE BARRIER TYPE 80SW MODIFIED

1 1/2"=1'-0"



TYPICAL LONGITUDINAL DECK SLAB SECTION

1/2"=1'-0"

REV	DESCRIPTION	DATE	APPR.	REFERENCE INFORMATION AND NOTES

NV5
2025 GATEWAY PLACE, SUITE 238
SAN JOSE, CA 95110
408.392.7222 TEL
408.392.0101 FAX
WWW.NV5.COM

DATE 2/13/2020
DESIGN DGS
DRAWN RAM
CHECKED NS

ENGINEERING CERTIFICATION
REGISTERED PROFESSIONAL ENGINEER DAVID G. SCHOTT S 2470 Exp. 9-30-21 STRUCTURAL STATE OF CALIFORNIA
NOT FOR CONSTRUCTION
ENGINEER DATE

SANTA CLARA VALLEY WATER DISTRICT
Valley Water
PROJECT ENGINEER ACCEPTED BY DISTRICT DATE

PROJECT NAME AND SHEET DESCRIPTION:
POPE/CHAUCER STREET BRIDGE REPLACEMENT AT SAN FRANCISQUITO CREEK
SUPERSTRUCTURE SLAB DETAILS NO. 1

SCALE: AS SHOWN
VERIFY SCALES 0 1"
BAR IS ONE INCH ON ORIGINAL DRAWING. IF NOT ONE INCH ON THIS SHEET, ADJUST SCALES ACCORDINGLY

PROJECT NUMBER 26284001
SHEET CODE: S-13
SHEET NUMBER: 26 OF 32

DOCUMENT NUMBER: XXXX-X-0000-0000000.00

USERNAME: MonteaR 2/16/2020 3:48 PM
FILENAME: P:\Nolte-NorCA\SJB037100\Cadd\Structures\Superstructure Slab Details No. 1.dwg

IRRIGATION LEGEND

- IN-LINE DRIP IRRIGATION, TORO, DL2000 SERIES PC DRIPLINE, 0.5 GPH EMITTER FLOW AND 18-INCH EMITTER SPACING. SPACE EMITTER LINE ROWS AT 18-INCHES ON CENTER. INSTALL ALL LINES AT GRADE AND COVER WITH MULCH PER PLANTING PLAN. USE TORO TRI-LOC FITTINGS FOR DRIPLINE. REVIEW LAYOUT WITH MANUFACTURER'S REPRESENTATIVE PRIOR TO CONSTRUCTION, CHRIS STEELE, (559) 779-8676.
- SHRUB SPRAY, HUNTER, PROS-12-PRS40-CV-MP1000, ARC AS REQUIRED, 11'-14' RADIUS
- SHRUB SPRAY, HUNTER, PROS-12-PRS40-CV-MP2000, ARC AS REQUIRED, 15'-19' RADIUS
- SHRUB SPRAY, HUNTER, PROS-12-PRS40-CV-MP3000, ARC AS REQUIRED, 23'-30' RADIUS
- SHRUB SPRAY, HUNTER, PROS-12-PRS40-CV-MPCORNER, ARC AS REQUIRED, 11'-14' RADIUS
- TREE BUBBLER, TORO FB-50-PC, EACH SYMBOL REPRESENTS 2 BUBBLERS PER TREE
- REMOTE CONTROL VALVE, IRRITROL, 100 SERIES, SIZE PER PLAN
- DRIP REMOTE CONTROL ZONE KIT, IRRITROL, 700DK-1-LF, 1" SIZE
- C — CONTROLLER, IRRITROL, MC18-PLUS, PEDESTAL MOUNT
- M — WATER METER
- B — BACKFLOW PREVENTER, FEBCO, 825Y, SIZE TBD
- V — MASTER VALVE, SUPERIOR, 3100 SERIES, NORMALLY OPEN, LINE SIZE
- F — FLOW SENSOR, IRRITROL, FS-B, SIZE TBD
- S — WEATHER SENSOR, IRRITROL, CL-100-WIRELESS
- WATER SERVICE LINE
- DRIP HEADER, SCH 40 PVC, SIZE PER PLAN
- LATERAL / HEADER CONNECTION
- LATERAL LINE, CLASS 200 PVC, SIZE PER PLAN
- MAINLINE, CLASS AS REQUIRED PER SPECS, SIZE PER PLAN
- SLEEVE, SCH 40 PVC, SIZE AS REQUIRED
- QUICK COUPLING VALVE, TORO, 100-SLVLC
- GATE VALVE, NIBCO, CLASS 125, T-113, LINE SIZE, INSTALL IN VALVE BOX
- F — FLUSH VALVE, TORO, T-FCH-H, INSTALL AT LOW END OF DRIP HEADER LINE
- A — AIR RELEASE VALVE, TORO, T-YD-500-34, INSTALL AT HIGH END OF DRIP HEADER LINE
- DRIP IRRIGATION INDICATOR, HUNTER, ECO-ID
- 1 — VALVE NUMBER FOR DRIP AREA

1	40	1"
	10	0.29

VALVE #
OPERATING PRESSURE
VALVE SIZE
PRECIPITATION RATE (INCHES PER HOUR)
APPROXIMATE GPM THROUGH VALVE

- EXISTING TREE TO REMAIN

IRRIGATION NOTES

1. **SPECIFICATIONS:** SEE IRRIGATION SPECIFICATIONS FOR ADDITIONAL INFORMATION.
2. **VERIFICATION:** SYSTEM DESIGN IS BASED ON ( ) P.S.I. AND ( ) G.P.M. AVAILABLE AT DISCHARGE OUTLET OF METER OR OTHER POINT OF CONNECTION. VERIFY SAME AND NOTIFY OWNER'S REPRESENTATIVE IF SUCH DATA ADVERSELY AFFECTS THE OPERATION OF THE SYSTEM. SUCH NOTICE SHALL BE MADE IN WRITING AND PRIOR TO COMMENCING ANY IRRIGATION WORK.
3. **UTILITIES:** VERIFY LOCATION OF ALL ON-SITE UTILITIES. RESTORATION OF DAMAGED UTILITIES SHALL BE MADE AT THE CONTRACTOR'S EXPENSE TO THE SATISFACTION OF THE OWNER.
4. **SCHEMATIC:** SYSTEM FEATURES ARE SHOWN SCHEMATICALLY FOR GRAPHIC CLARITY. INSTALL ALL PIPING AND VALVES IN COMMON TRENCHES WHERE FEASIBLE AND INSIDE PLANTING AREAS WHENEVER POSSIBLE. ALL VALVES SHALL BE LOCATED IN GROUNDCOVER OR SHRUB AREAS WHENEVER POSSIBLE.
5. **CODES:** IRRIGATION SYSTEM SHALL BE INSTALLED IN ACCORDANCE WITH ALL LOCAL CODES AND MANUFACTURER'S SPECIFICATIONS. NOTIFY OWNER'S REPRESENTATIVE BY TELEPHONE AND IN WRITING OF ANY CONFLICTS PRIOR TO INSTALLATION.
6. **SERVICE LINE:** CONTRACTOR SHALL TAP CITY MAIN WATER LINE AND PROVIDE COPPER TYPE K SERVICE LINE, SIZE TBD, TO WATER METER LOCATION AS SHOWN ON PLANS. INSTALLER SHALL REPAIR ALL DAMAGES INCURRED DURING INSTALLATION AND SHALL BE RESPONSIBLE FOR ALL ASSOCIATED FEES AND CHANGES. DEPTH OF PIPE, TRENCHING AND BACKFILLING, AS REQUIRED BY GOVERNING AGENCY.
7. **WATER METER:** CONTRACTOR SHALL PURCHASE AND INSTALL WATER METER AS SHOWN PLANS, INCLUDING ALL ASSOCIATED CONNECTIONS, VAULTS, ETC. INSTALLING PARTY SHALL INCUR ALL FEES ASSOCIATED WITH PURCHASE AND INSTALLATION.
8. **BACKFLOW ASSEMBLY:** CONTRACTOR SHALL CONNECT THE BACKFLOW ASSEMBLY WITH THE WATER METER USING COPPER TYPE K LINE, SIZE TBD, BURIED A MINIMUM OF 18 INCHES.
9. **BACKFLOW DEVICES:** LOCATE ALL BACKFLOW DEVICES IN SHRUB OR GROUNDCOVER AREAS. DEVICES SHALL BE LOCATED WITHIN SHRUB PLANTING AREAS AND IN AN INCONSPICUOUS LOCATION APPROVED PRIOR TO INSTALLATION BY THE OWNER'S REPRESENTATIVE.
10. **SLEEVING:** ADEQUATELY SIZE ALL SLEEVES SHOWN ON PLAN. SLEEVES SHALL BE INSTALLED AT THE NECESSARY DEPTHS PRIOR TO PAVEMENT CONSTRUCTION. SLEEVING SHALL EXTEND 1'-0" FROM EDGE OF PAVING INTO LAWN OR PLANTING AREA, AND SHALL HAVE ENDS CLEARLY MARKED ABOVE GRADE.
11. **QUICK COUPLING VALVES:** INSTALL ON TRIPLE SWING JOINT. LOCATE 12 INCHES AWAY FROM EDGE OF WALKS, WALLS, CURBS, AND HEADERBOARDS WITHIN PLANTING AREAS. PROVIDE OWNER WITH ONE OPERATING KEY, TWO SETS OF LOCKING COVER KEYS, AND ONE SWIVEL HOSE ELL.
12. **CHECK VALVES:** INSTALL PLASTIC CHECK VALVE AT BASE OF HEADS ON LOW ENDS OF SYSTEMS AS REQUIRED TO MINIMIZE LINE DRAINAGE.
13. **PRESSURE REDUCER:** WHEN NECESSARY, TO BE PLACED UPSTREAM AND ADJACENT TO BACKFLOW DEVICE WHENEVER POSSIBLE.

65% SUBMITTAL - NOT FOR CONSTRUCTION

REV	DESCRIPTION	DATE	APPR.	REFERENCE INFORMATION AND NOTES

Callander Associates Landscape Architecture
1633 Old Bayshore Highway
Suite 133
Burlingame, CA 94010
T 650.375.1313

DATE	11/30/17
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DRAWN	MR
CHECKED	NR

LANDSCAPE ARCHITECT

Santa Clara Valley Water District

ACCEPTED BY DISTRICT

PROJECT ENGINEER DATE

PROJECT NAME AND SHEET DESCRIPTION:

IRRIGATION NOTES AND LEGEND

SCALE: AS SHOWN

VERIFY SCALES: 0 1"
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PROJECT NUMBER: 12061

SHEET CODE: L1.0

SHEET NUMBER: XX OF

USERNAME: Mrichards 11/27/2017 8:31 AM
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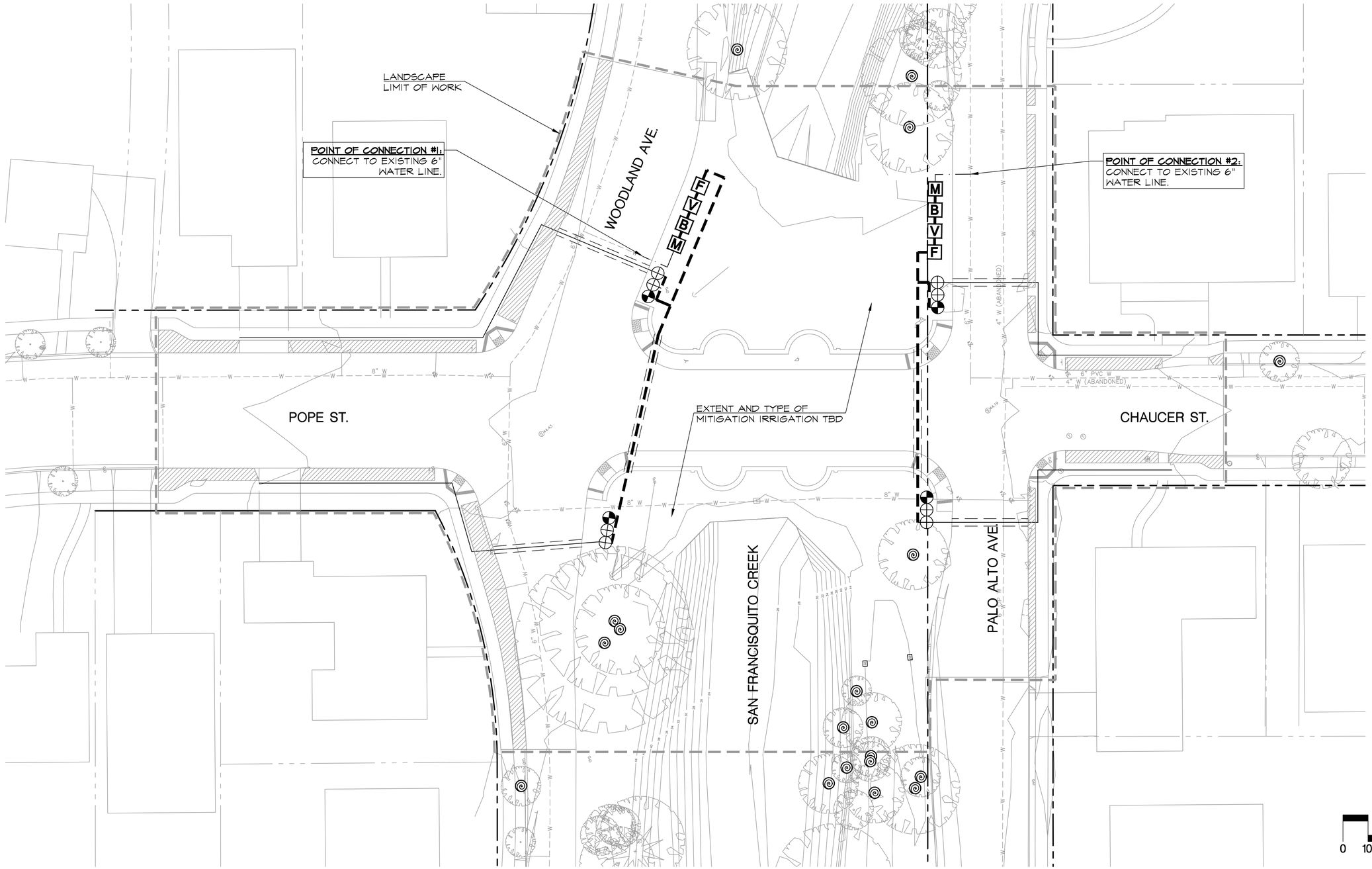
DOCUMENT NUMBER: GD-C-3011-32454



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DOCUMENT NUMBER:

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Callander Associates
Landscape Architecture
1633 Old Bayshore Highway
Suite 133
Burlingame, CA 94010
T 650.375.1313

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MITIGATION PLANT LIST

SYMBOL	ABBREV.	BOTANICAL NAME	COMMON NAME	SIZE	SPACING
	TREES				
▲	ACE NEG	ACER NEGUNDO	BOX ELDER	D40	PER PLAN
□	AES CAL	AESCULUS CALIFORNICA	CALIFORNIA BUCKEYE	D40	PER PLAN
⊗	PLA RAC	PLATANUS RACEMOSA	CALIFORNIA SYCAMORE	D40	PER PLAN
◒	QUE AGR	QUERCUS AGRIFOLIA	COAST LIVE OAK	4 GAL TP	PER PLAN
⊙	SAL LAS	SALIX LASIOLEPIS	ARROYO WILLOW	CUTTING	PER PLAN
◎	SAM MEX	SAMBUCUS MEXICANA	BLUE ELDERBERRY	4 GAL TP	PER PLAN
	SHRUBS				
	ART CAL	ARTEMESIA CALIFORNICA	CALIFORNIA SAGEBRUSH	D16	PER PLAN
	BAC PIL	BACCHARIS PILULARIS VAR. CONSANGUINEA	COYOTE BRUSH	1 GAL	PER PLAN
	BAC SAL	BACCHARIS SALICIFOLIA	MULE FAT	1 GAL	PER PLAN
	DIP AUR	DIPLACUS AURANTIACUS	STICKY MONKEY FLOWER	D16	PER PLAN
	FRA CAL	FRANGULA CALIFORNICA	COFFEEBERRY	1 GAL	PER PLAN
	HET ARB	HETEROMELES ARBUTIFOLIA	TOYON	1 GAL	PER PLAN
	RIB SAN	RIBES SANGUINEUM	RED FLOWERING CURRANT	1 GAL	PER PLAN
	RUB PAR	RUBUS PARVIFLORUS	THIMBLEBERRY	1 GAL	PER PLAN
	PRU ILI	PRUNUS ILICIFOLIA	HOLLYLEAF CHERRY	1 GAL	PER PLAN
	GROUNDCOVERS				
		40% ACHILLEA MILLEFOLIUM	YARROW	1 GAL	2'-0" O.C.
		60% ELYMUS TRITICOIDES	CREEPING WILD RYE	1 GAL	3'-0" O.C.
		40% ROSA CALIFORNICA	CALIFORNIA WILD ROSE	D16	4'-0" O.C.
		60% SYMPHORICARPOS ALBUS	COMMON SNOWBERRY	D16	4'-0" O.C.
		50% ARTEMISIA DOUGLASIANA	MUGWORT	D16	2'-0" O.C.
		50% RUBUS URSINUS	CALIFORNIA BLACKBERRY	1 GAL	4'-0" O.C.

STREETSCAPE PLANT LIST

ABBREV.	BOTANICAL NAME	COMMON NAME	SIZE	SPACING	
TREES					
ACE GIN	ACER TATARICUM SSP. GINNALA 'RUBY SLIPPERS'	RUBY SLIPPERS AMUR MAPLE	24" BOX	PER PLAN	MODERATE
QUE AGR	QUERCUS AGRIFOLIA	COAST LIVE OAK	24" BOX	PER PLAN	VERY LOW
RHU LAN	RHUS LANCEA	AFRICAN SUMAC	24" BOX	PER PLAN	LOW
SHRUBS AND GROUNDCOVERS					
ARC EDM	ARCTOSTAPHYLOS EDMUNDSII 'CARMEL SUR'	LITTLE SUR MANZANITA	1 GALLON	5'-0" O.C.	LOW
	BOUTELOUA GRACILIS 'BLONDE AMBITION'	BLUE GRAMA GRASS	1 GALLON	2'-0" O.C.	LOW
BUL FRU	BULBINE FRUTESCENS 'HALLMARK'	'HALLMARK' BULBINE	1 GALLON	3'-0" O.C.	LOW
EPI CAN	EPILOBIUM 'WAYNE'S SILVER'	CALIFORNIA FUCSHIA	1 GALLON	3'-0" O.C.	LOW
	TEUCRIUM COSSONII MAJORICUM	FRUITY GERMANDER	1 GALLON	2'-0" O.C.	VERY LOW

PLANT LEGEND

- EXISTING TREE TO REMAIN
- TREE, 24" BOX SIZE
- SHRUB MASS
- ROOT BARRIER: DEEP ROOT CORP. #UB18. INSTALL FLUSH WITH INSIDE FACE OF CURB OR PAVING IN LOCATIONS INDICATED. SHOWN ON OUTSIDE OF CURB FOR GRAPHIC PURPOSES ONLY.
- MITIGATION PLANTING, SEE MITIGATION PLANT LIST. PLANT LOCATIONS AND QUANTITIES TO BE IDENTIFIED IN FUTURE SUBMITTAL.

ABBREVIATIONS

D16	DEEPOT 16 CUBIC INCHES
D40	DEEPOT 40 CUBIC INCHES
D60	DEEPOT 60 CUBIC INCHES
TB4	TREE BAND 4
4 GAL TP	4 GALLON TREE POT

GEL PACK CHART

PLANT SIZE	# GEL PACKS
D16, TB4	1
D40, D60, 1 GAL	2
4 GAL TP, 5 GAL	3
15 GAL	4

PLANTING NOTES

1. **MULCH:** INSTALL A UNIFORM THREE INCH COVERING OF WALK-ON MULCH, 1-1/2" MAX PARTICLE SIZE, IN ALL AREAS TO BE PLANTED. MATERIAL AVAILABLE FROM REDI-GRO, (800) 654-4358, OR EQUAL. ADDITIONALLY, APPLY MULCH OF THE SAME QUALITY AND DEPTH TO COVER UN-PLANTED AREAS OF DISTURBED SOIL AT BACK OF SIDEWALKS.
2. **EXISTING PLANT MATERIAL:** PROTECT ALL EXISTING PLANT MATERIAL TO REMAIN. REPAIR ANY DAMAGES INCURRED AS A DIRECT RESULT OF THIS CONTRACT TO THE OWNER'S SATISFACTION AT NO ADDITIONAL COST.
3. **GROUNDCOVER:** PROVIDE GROUNDCOVER AT INDICATED ON-CENTER SPACING THROUGHOUT ALL AREAS TO BE PLANTED. GROUNDCOVER SHALL BE PROVIDED UP TO THE WATERING BASIN OF ALL TREES AND SHRUBS.
4. **QUANTITIES:** THE QUANTITIES SHOWN ON THE LABELS ARE NOT TO BE CONSTRUED AS THE COMPLETE AND ACCURATE LIMITS OF THE CONTRACT. FURNISH AND INSTALL ALL PLANTS SHOWN SCHEMATICALLY ON THE DRAWINGS.
5. **TOPSOIL:** ALL MITIGATION PLANTING AREAS TO RECEIVE A SIX INCH LAYER OF NATIVE TOPSOIL PER SPECIFICATIONS. ALL STREETSCAPE PLANTING AREAS TO RECEIVE A SIX INCH LAYER OF IMPORT TOPSOIL PER SPECIFICATIONS.
6. **SOILS TESTING:** SEE SPECIFICATIONS FOR TESTING OF TOPSOIL AND AMENDMENTS. IN ADDITION, CONTRACTOR SHALL SUBMIT A FIVE GALLON SAMPLE OF NATIVE TOPSOIL FROM ANY AREAS PREVIOUSLY COVERED BY PAVING, TO WAYPOINT ANALYTICAL, INC. OF SAN JOSE, (408) 727-0330, FOR CONTAMINATION TESTING. TESTING REQUIRES FOUR TO FIVE WEEKS. CONTRACTOR SHALL ALLOW SUFFICIENT TIME FOR TESTING PRIOR TO CONSTRUCTION.

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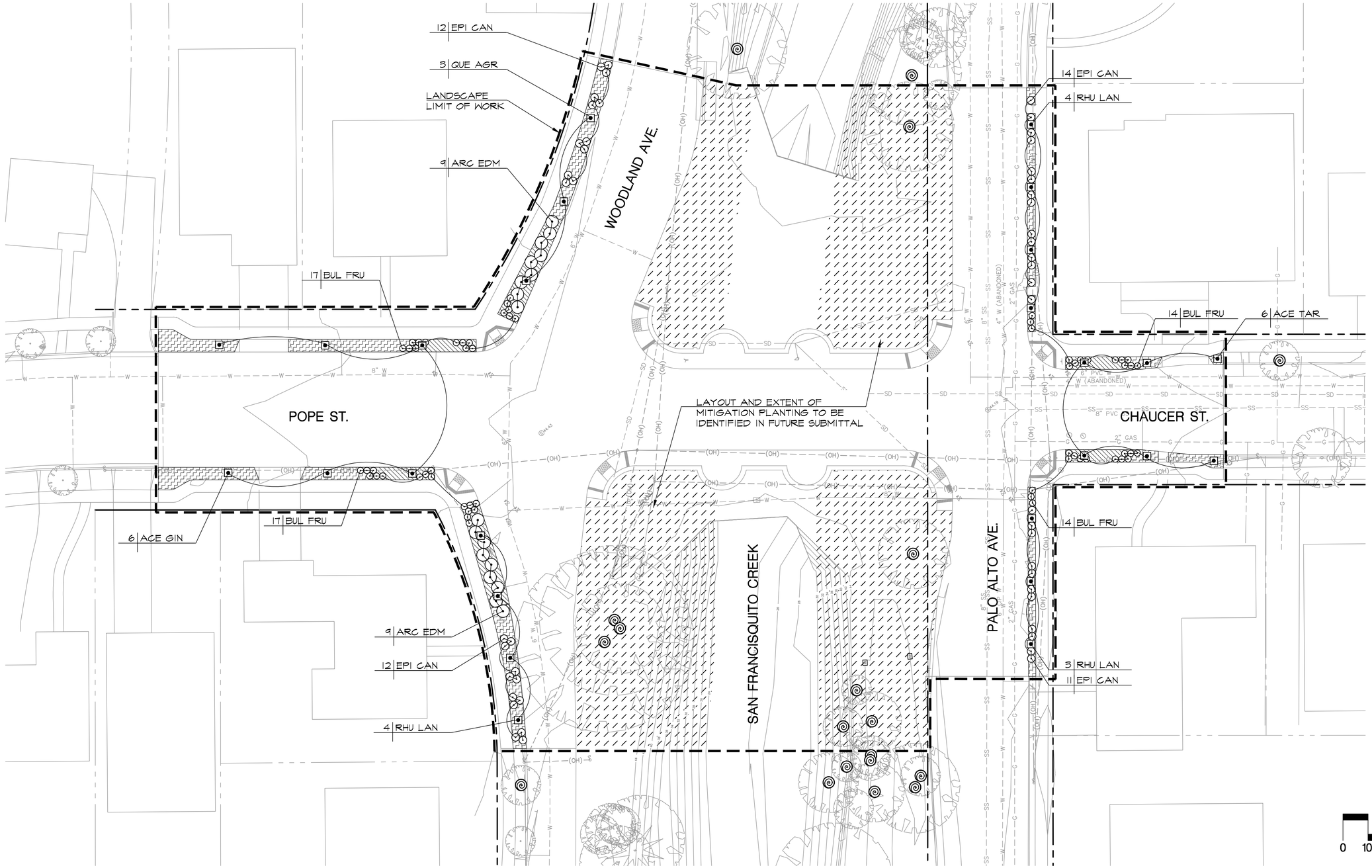

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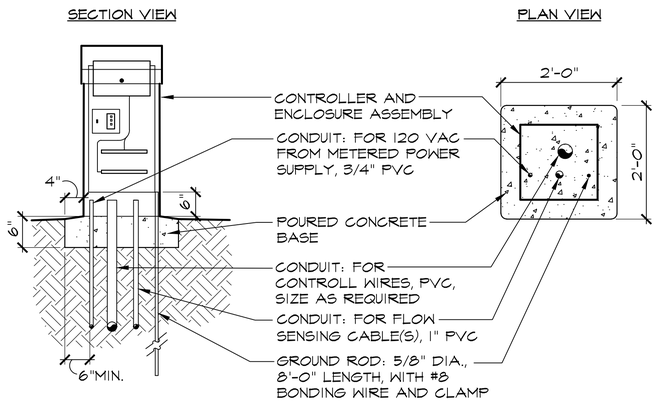
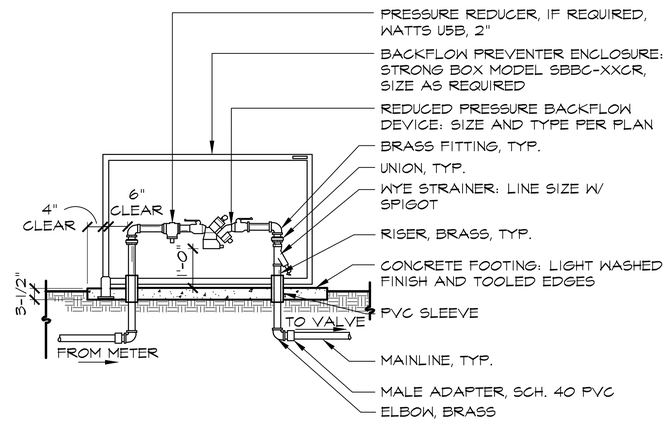


1 L3.0 IRRIGATION CONTROLLER
SECTION

N.T.S.

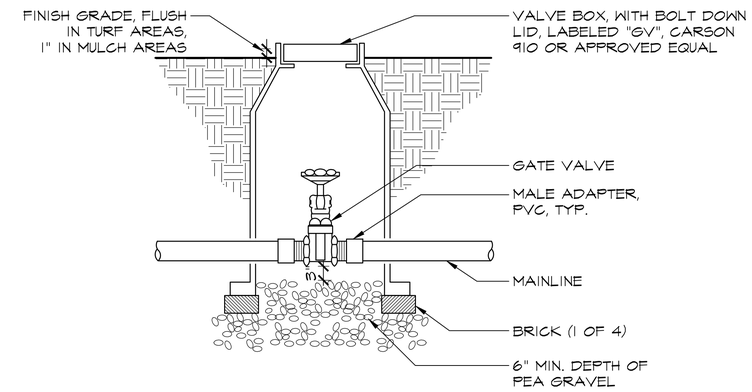
12061 Controller 3 16.dwg



2 L3.0 BACKFLOW PREVENTER
SECTION

0 1' 2' 4'

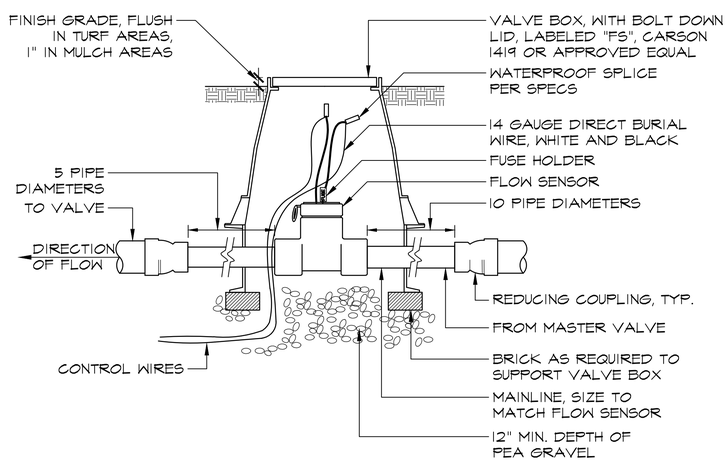
12061 Backflow Preventer 24.dwg



3 L3.0 MASTER VALVE
SECTION

N.T.S.

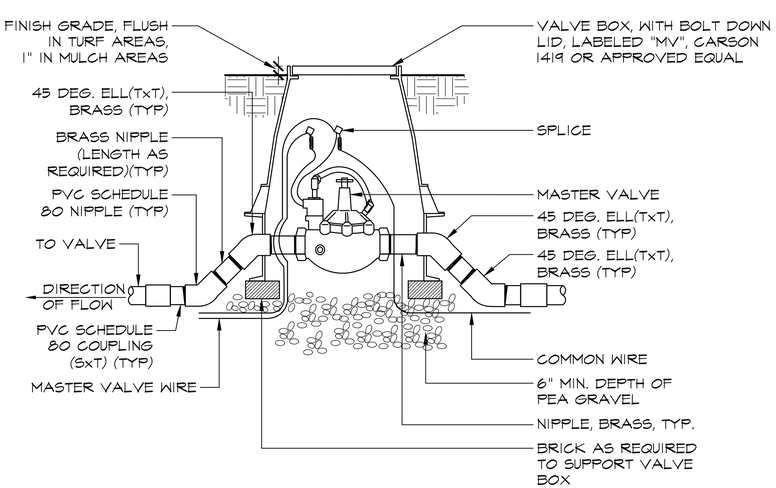
12061 Gate Valve 4.dwg



4 L3.0 FLOW SENSOR
SECTION

N.T.S.

12061 Flow Sensor 48.dwg

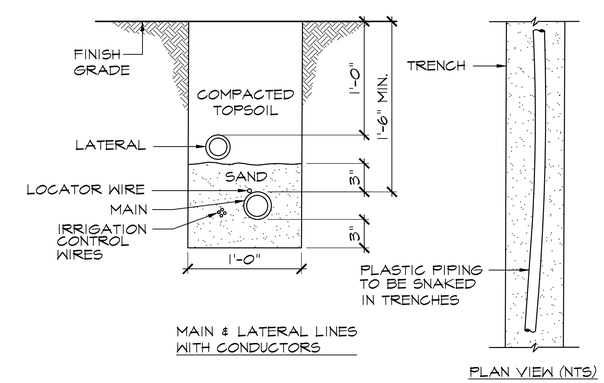


5 L3.0 MASTER VALVE
SECTION

N.T.S.

12061 Master Valve 48.dwg

NOTE:
TAPE AND BUNDLE WIRING AT 10'-0" INTERVALS.



6 L3.0 IRRIGATION TRENCHING
SECTION

0 1/2' 1' 2'

12061 Irrigation Trenching 8.dwg

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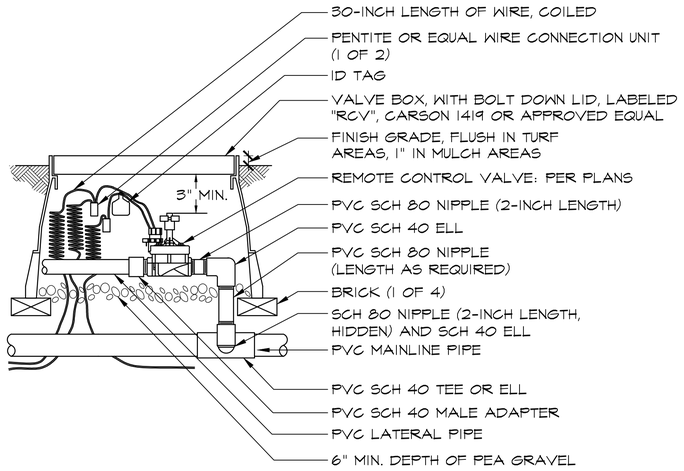
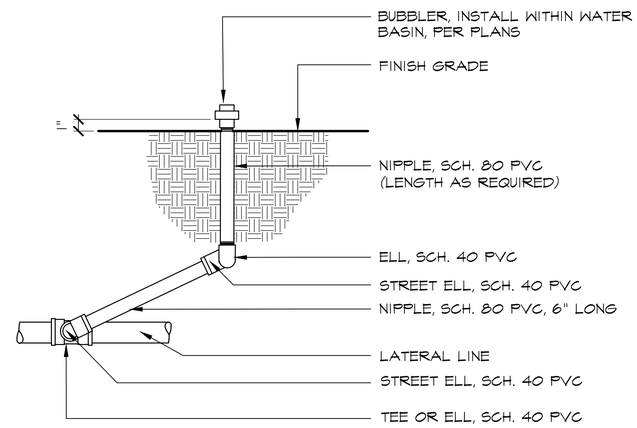
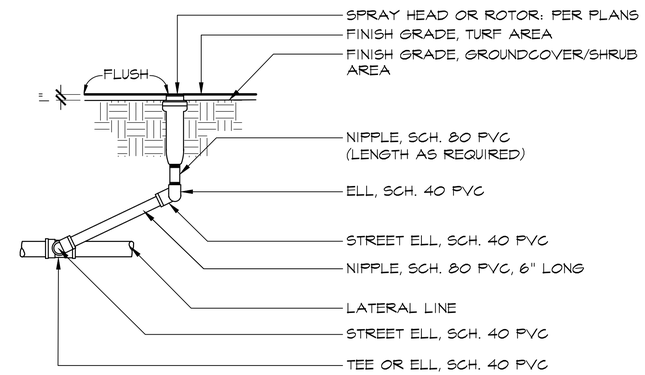


1 / L3.1 REMOTE CONTROL VALVE
SECTION — N.T.S.
12061 Remote Control Valve 4.dwg



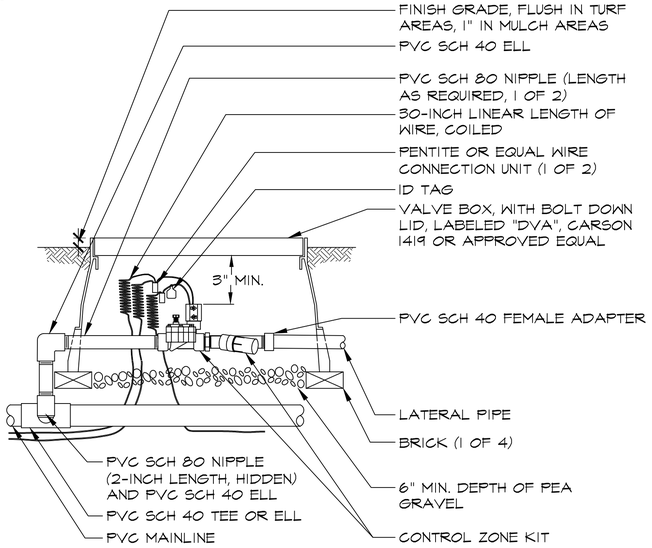
NOTE: ASSEMBLE ENTIRE UNIT AS TRIPLE SWING JOINT

2 / L3.1 BUBBLER
SECTION — 0 1/2' 1' 2'
12061 Bubbler 8.dwg

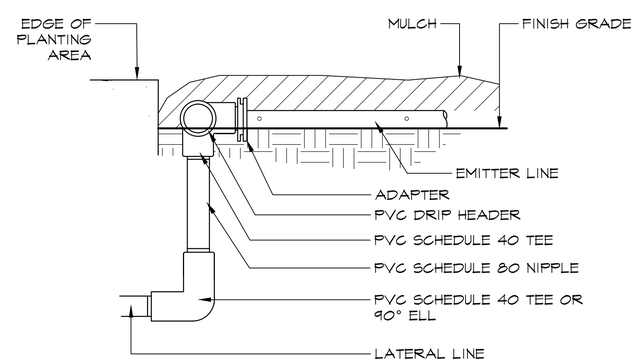


NOTE: ASSEMBLE ENTIRE UNIT AS TRIPLE SWING JOINT. AS AN ALTERNATIVE TO THE ABOVE MATERIALS, "MARLEX" POLYETHYLENE FITTINGS OR A PRE-MANUFACTURED PRODUCT MAY BE SUBSTITUTED.

3 / L3.1 SPRAY HEAD
SECTION — 0 2' 4' 8'
12061 Sprayhead 48.dwg

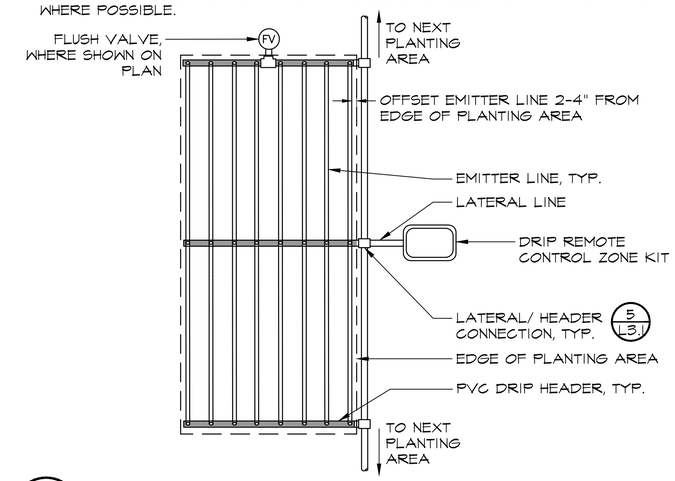


4 / L3.1 DRIP REMOTE CONTROL VALVE
PLAN — N.T.S.
12061 Drip Valve 1.dwg



5 / L3.1 DRIP LATERAL / HEADER CONNECTION
PLAN — N.T.S.
12061 Drip Lateral Header Connection 8.dwg

NOTES:
1. STAKE EMITTER LINE EVERY 4 FEET.
2. LATERAL LINE, FLUSH VALVE AND DRIP REMOTE CONTROL ZONE KIT SHOWN OUTSIDE OF PLANTING AREA FOR GRAPHIC PURPOSES ONLY. LOCATE WITHIN PLANTING AREA WHERE POSSIBLE.



6 / L3.1 DRIP CENTER FEED LAYOUT
PLAN — N.T.S.
12061 Drip Center Feed Layout 1.dwg

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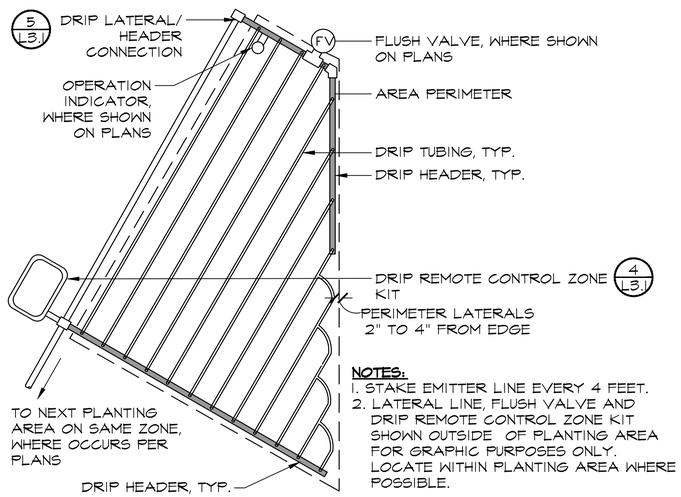

NOTES:
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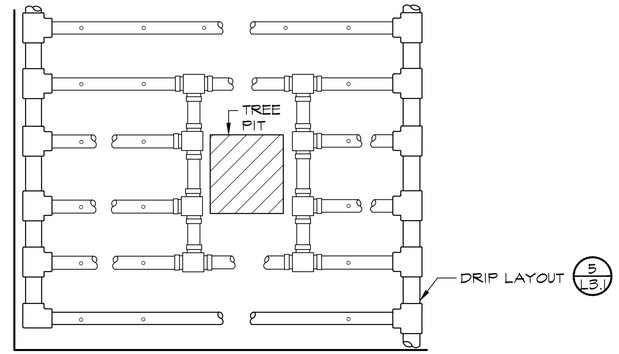
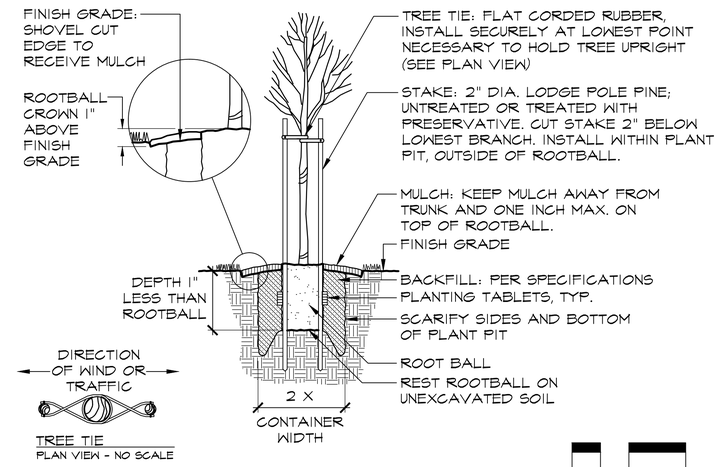
1 L3.2 DRIP IRREGULAR LAYOUT
PLAN — N.T.S.
02810 Drip Layout Irregular 1.dwg

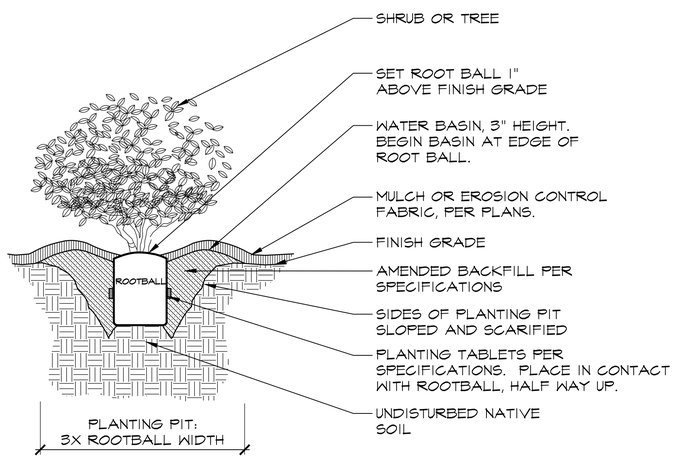
NOTE: PROVIDE OPENING AT EACH TREE LOCATION AS DETAILED WITH 12" CLEARANCE AROUND ALL SIDES OF ROOTBALL OF NEW TREES AND MINIMUM 3' CLEARANCE AROUND TRUNK OF EXISTING TREES.



2 L3.2 DRIP LAYOUT AT TREE
PLAN — N.T.S.
12061 Drip Layout at Tree 8.dwg

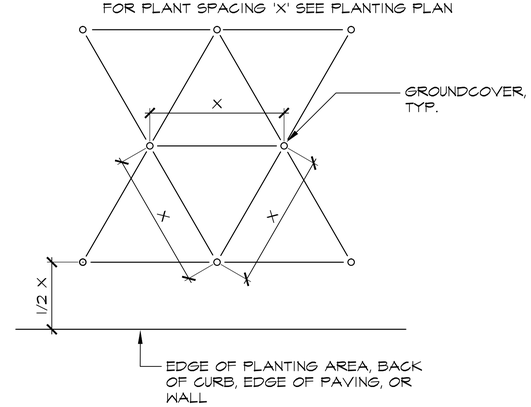


3 L3.2 TREE PLANTING
SECTION — 0 1' 2' 4'
12061 Tree Staking 32.dwg

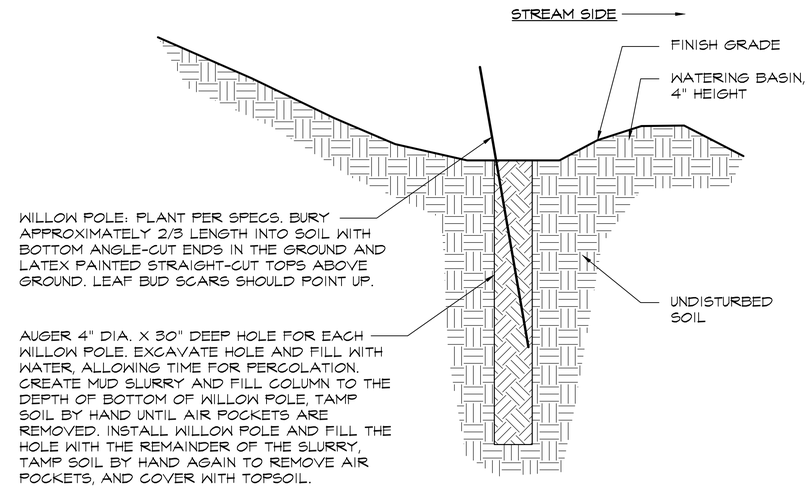


4 L3.2 SHRUB PLANTING
SECTION — N.T.S.
12061 Shrub Planting 48.dwg

NOTE:
FOR PLANT SPACING 'X' SEE PLANTING PLAN



5 L3.2 GROUNDCOVER SPACING
PLAN — N.T.S.
12061 Groundcover Spacing 48.dwg



6 L3.2 WILLOW STAKING
SECTION — 0 1/2' 1' 2'
12061WillowPlanting_8.dwg

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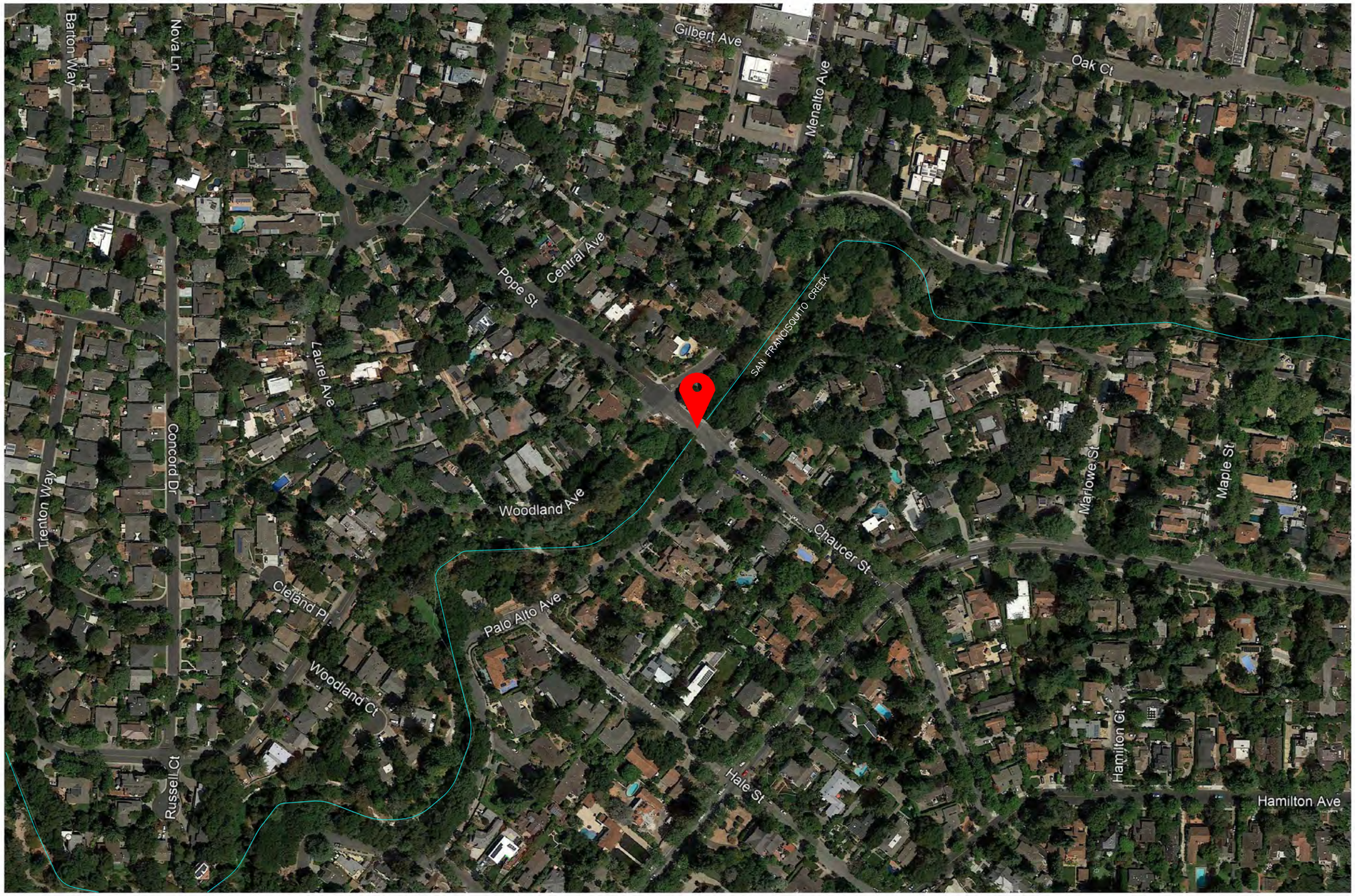

N

LEGEND:

PROJECT LOCATION

Valley Water

PROJECT VICINITY MAP

POPE/CHAUCER STREET BRIDGE REPLACEMENT
AT SAN FRANCISQUITO CREEK

SANTA CLARA VALLEY WATER DISTRICT

NV5

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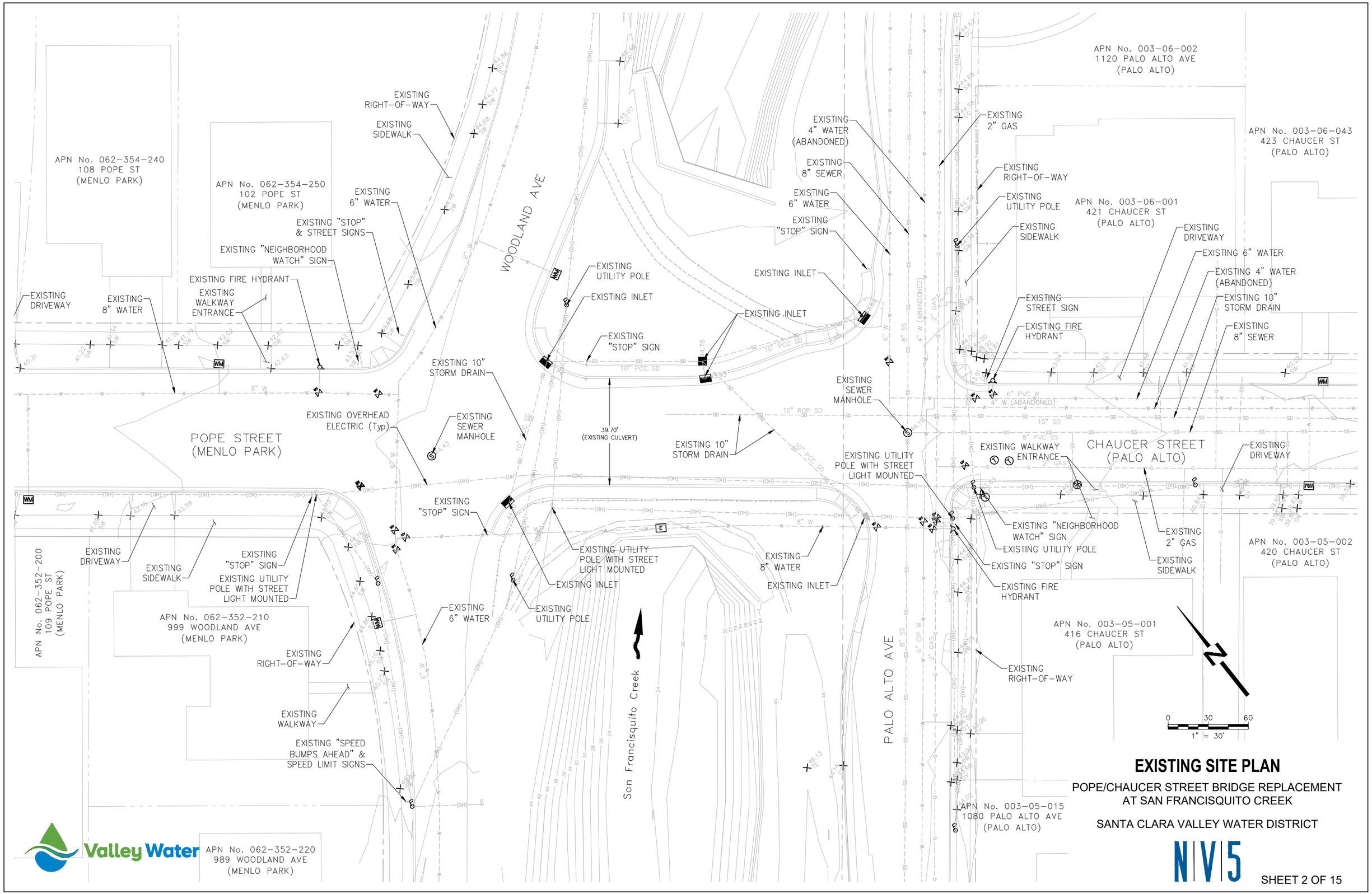

EXISTING SITE PLAN

POPE/CHAUCER STREET BRIDGE REPLACEMENT
AT SAN FRANCISQUITO CREEK

SANTA CLARA VALLEY WATER DISTRICT

SHEET 2 OF 15

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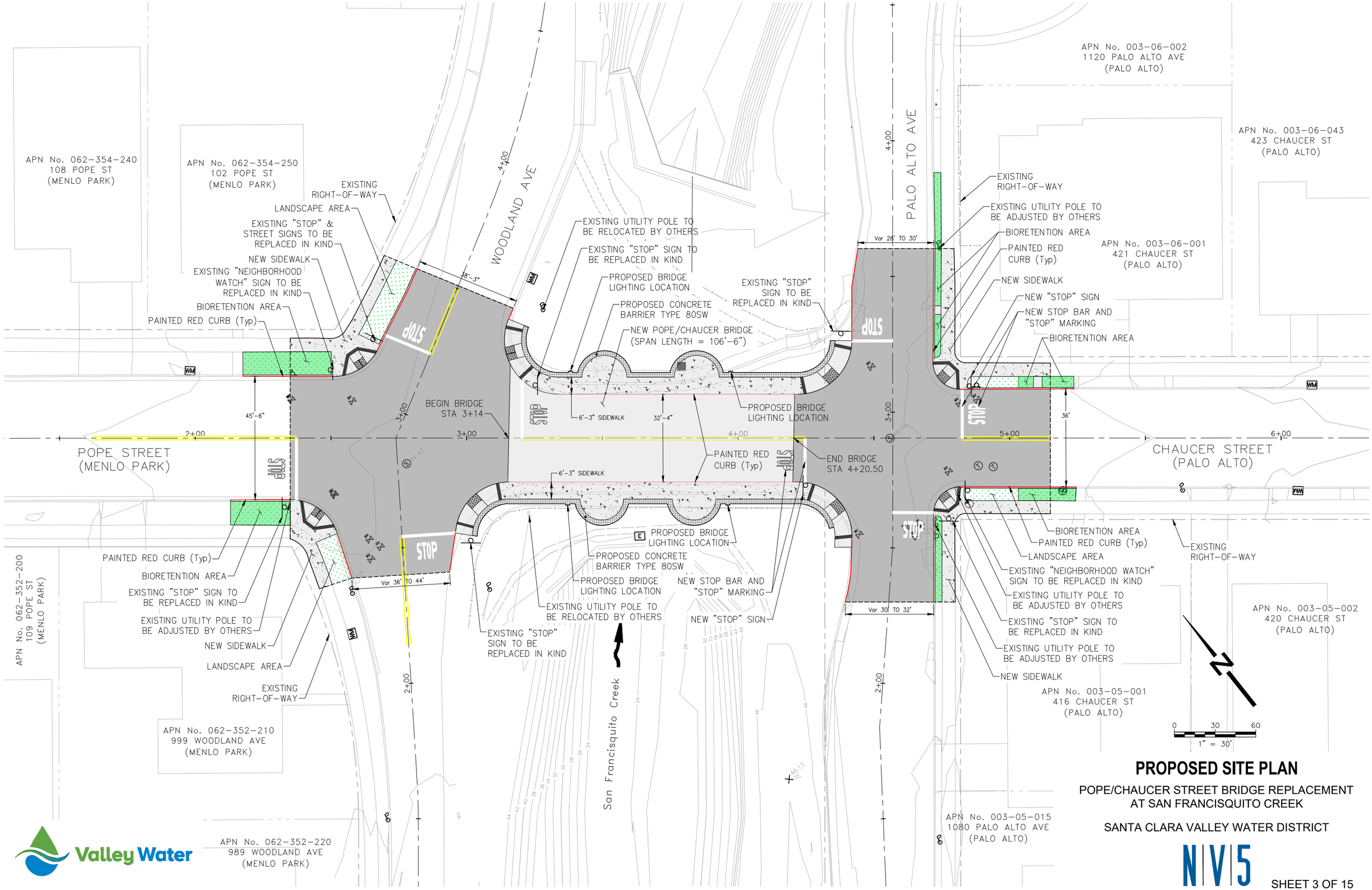

PROPOSED SITE PLAN

POPE/CHAUCER STREET BRIDGE REPLACEMENT
AT SAN FRANCISQUITO CREEK

SANTA CLARA VALLEY WATER DISTRICT

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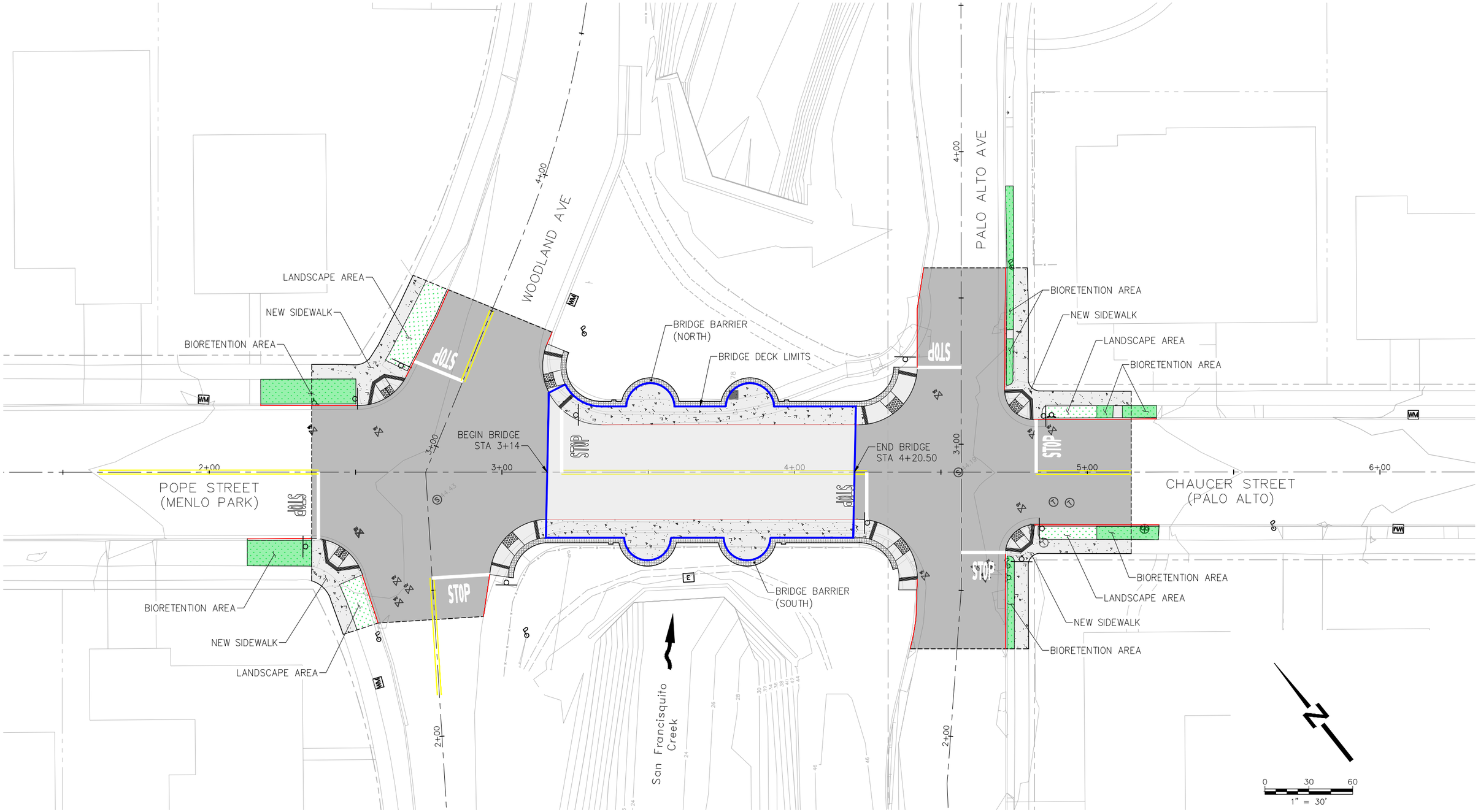

MENLO PARK PROJECT DATA:

- All PERMANENT CONSTRUCTION IS WITHIN PUBLIC RIGHT-OF-WAY.
- NO PRIVATE APN/LOT AFFECTED BY IMPROVEMENTS, THEREFORE NO LOT COVERAGE
- STREET AREA = 6,325 SF (ASPHALT)
- SIDEWALK AREA = 961 SF (CONCRETE)
- BIOSWALE AREA = 471 SF
- LANDSCAPE AREA = 380 SF

PROPOSED BRIDGE DATA:

- BRIDGE AREA OUTLINED IN BLUE
- BRIDGE BARRIER TOTAL LENGTH = 303 LF
  - NORTH BARRIER = 146 LF (CONCRETE)
  - SOUTH BARRIER = 157 LF (CONCRETE)
- BRIDGE DECK TOTAL AREA = 5,168 SF
  - STREET AREA = 3,453 SF (CONCRETE)
  - SIDEWALK AREA = 1,715 SF (CONCRETE)

PALO ALTO PROJECT DATA:

- All PERMANENT CONSTRUCTION IS WITHIN PUBLIC RIGHT-OF-WAY.
- NO PRIVATE APN/LOT AFFECTED BY IMPROVEMENTS, THEREFORE NO LOT COVERAGE
- STREET AREA = 6,372 SF (ASPHALT)
- SIDEWALK AREA = 1,279 SF (CONCRETE)
- BIOSWALE AREA = 400 SF
- LANDSCAPE AREA = 166 SF

Valley Water

PROPOSED PROJECT DATA

POPE/CHAUCER STREET BRIDGE REPLACEMENT
AT SAN FRANCISQUITO CREEK

SANTA CLARA VALLEY WATER DISTRICT

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PROJECT SITE RENDERING - 1

POPE/CHAUCER STREET BRIDGE REPLACEMENT
AT SAN FRANCISQUITO CREEK

SANTA CLARA VALLEY WATER DISTRICT

Valley Water

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PROJECT SITE RENDERING - 2

POPE/CHAUCER STREET BRIDGE REPLACEMENT
AT SAN FRANCISQUITO CREEK

SANTA CLARA VALLEY WATER DISTRICT

Valley Water

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PLAN
NOT TO SCALE

TREE REMOVAL PLAN

POPE/CHAUCER STREET BRIDGE REPLACEMENT
AT SAN FRANCISQUITO CREEK

SANTA CLARA VALLEY WATER DISTRICT

Valley Water

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SHEET 7 OF 15

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TREE REMOVAL LIST:
ROADWAY AND STRUCTURAL IMPROVEMENTS

TREE #	SPECIES	Dia (in)	NORTHING	EASTING	"PC" Sta	OFFSET
1	HORSECHESTNUT	<4	1993058	6081627	2+39	27' Lt
2	GINKGO	<4	1993057	6081671	2+73	54' Lt
3	SOUTHERN MAGNOLIA	14	1993026	6081581	2+24	27' Rt
4	SOUTHERN MAGNOLIA	14	1993003	6081592	2+47	38' Rt
5	SOUTHERN MAGNOLIA	10	1992989	6081590	2+54	50' Rt
6	SAUCER MAGNOLIA	6	1992874	6081842	5+22	21' Lt
7	COAST LIVE OAK	46	1992855	6081796	5+00	22' Rt
8	(NOT IDENTIFIED)	<4	1992849	6081808	5+12	20' Rt
9	COAST LIVE OAK	9	1993009	6081842	4+36	126' Lt
10	ITALIAN STONE PINE	26	1993007	6081825	4+25	113' Lt
11	COAST LIVE OAK	21,17,17	1993048	6081767	3+54	108' Lt
12	COAST LIVE OAK	14,9	1993023	6081771	3+73	92' Lt
13	COAST LIVE OAK	12	1993034	6081746	3+46	84' Lt
14	COAST LIVE OAK	14,9	1993020	6081756	3+63	79' Lt
15	COAST LIVE OAK	14,9	1993016	6081755	3+64	76' Lt
16	COAST LIVE OAK	11	1993019	6081730	3+44	62' Lt
17	COAST LIVE OAK	9	1993007	6081737	3+57	57' Lt
18	(NOT IDENTIFIED)	<4	1993002	6081756	3+75	66' Lt
19	COAST LIVE OAK	5	1992997	6081757	3+78	63' Lt
20	COAST LIVE OAK	7,6,5,4	1992995	6081756	3+79	60' Lt
21	COAST LIVE OAK	31	1992981	6081780	4+06	65' Lt
22	COAST LIVE OAK	12	1992967	6081781	4+16	54' Lt
23	COAST LIVE OAK	11,6	1992663	6081777	4+16	48' Lt
24	COAST LIVE OAK	13	1992659	6081773	4+15	43' Lt
25	COAST LIVE OAK	5	1992962	6081771	4+11	45' Lt
26	COAST LIVE OAK	11	1992972	6081749	3+88	38' Lt
27	COAST LIVE OAK	7	1992993	6081732	3+62	44' Lt
28	COAST LIVE OAK	12,12,9	1992990	6081722	3+56	34' Lt
29	COAST LIVE OAK	10	1993012	6081702	3+27	39' Lt
30	COAST LIVE OAK	11	1993022	6081706	3+23	49' Lt
31	COAST LIVE OAK	9,5,5	1993019	6081713	3+30	51' Lt
32	COAST LIVE OAK	11,10,8	1993024	6081711	3+26	55' Lt
33	WHITE ASH	13,9,4	1992942	6081664	3+42	39' Rt
34	COAST LIVE OAK	22	1992908	6081697	3+88	44' Rt
35	COAST LIVE OAK	13	1992904	6081699	3+93	46' Rt
36	MAJESTIC BEAUTY INDIAN HAWTHORN	5,4,4	1992892	6081712	4+11	48' Rt
37	COAST LIVE OAK	14,10	1992887	6081724	4+22	44' Rt
38	COAST LIVE OAK	17	1992874	6081718	4+26	58' Rt
39	COAST LIVE OAK	20	1992878	6081691	4+03	71' Rt
40	COAST LIVE OAK	19	1992869	6081687	4+05	81' Rt

TREE REMOVAL LIST:
CREEK GRADING IMPROVEMENTS

TREE #	SPECIES	Dia (in)	NORTHING	EASTING	"PC" Sta	OFFSET
41	COAST LIVE OAK	24	1993137	6081849	3+61	229' Lt
42	BLUE GUM	42	1993115	6081824	3+55	196' Lt
43	CALIFORNIA BAY	20	1993074	6081791	3+56	144' Lt
44	COAST LIVE OAK	23	1993070	6081905	4+46	213' Lt
45	COAST LIVE OAK	18	1993063	6081893	4+42	200' Lt
46	COAST LIVE OAK	17	1993040	6081868	4+37	166' Lt
47	COAST LIVE OAK	15	1993032	6081859	4+35	154' Lt
48	COAST LIVE OAK	10	1993030	6081851	4+30	147' Lt
49	COAST LIVE OAK	13	1993031	6081850	4+29	148' Lt
50	COAST LIVE OAK	15	1993027	6081856	4+36	148' Lt
51	COAST LIVE OAK	34	1993022	6081838	4+26	133' Lt
52	CALIFORNIA BAY	34	1992929	6081609	3+07	84' Rt
53	CALIFORNIA BAY	22	1992925	6081608	3+09	87' Rt
54	CALIFORNIA BAY	36	1992925	6081600	3+03	93' Rt
55	COAST LIVE OAK	12	1992866	6081558	3+08	166' Rt
56	COAST LIVE OAK	13	1992864	6081559	3+09	166' Rt
57	COAST LIVE OAK	8	1992866	6081555	3+06	167' Rt
58	COAST LIVE OAK	14	1992866	6081551	3+02	170' Rt
59	CANARY ISLAND DATE PALM	36	1992855	6081561	3+17	172' Rt
60	COAST LIVE OAK	15	1992853	6081548	3+08	181' Rt
61	COAST LIVE OAK	13	1992843	6081534	3+04	198' Rt
62	COAST LIVE OAK	10,5	1992846	6081666	4+04	112' Rt
63	COAST LIVE OAK	14,10	1992838	6081653	3+98	127' Rt
64	COAST LIVE OAK	19,10	1992833	6081663	4+10	125' Rt
65	COAST LIVE OAK	16	1992825	6081634	3+92	149' Rt
66	COAST LIVE OAK	12	1992821	6081652	4+09	140' Rt
67	COAST LIVE OAK	12	1992822	6081654	4+09	138' Rt
68	COAST LIVE OAK	18	1992810	6081646	4+11	153' Rt
69	COAST LIVE OAK	12	1992801	6081659	4+27	152' Rt
70	COAST LIVE OAK	11	1992810	6081635	4+03	160' Rt
71	COAST LIVE OAK	25	1992793	6081610	3+94	189' Rt

TREE REMOVAL LIST

POPE/CHAUCER STREET BRIDGE REPLACEMENT
AT SAN FRANCISQUITO CREEK

SANTA CLARA VALLEY WATER DISTRICT

Valley Water

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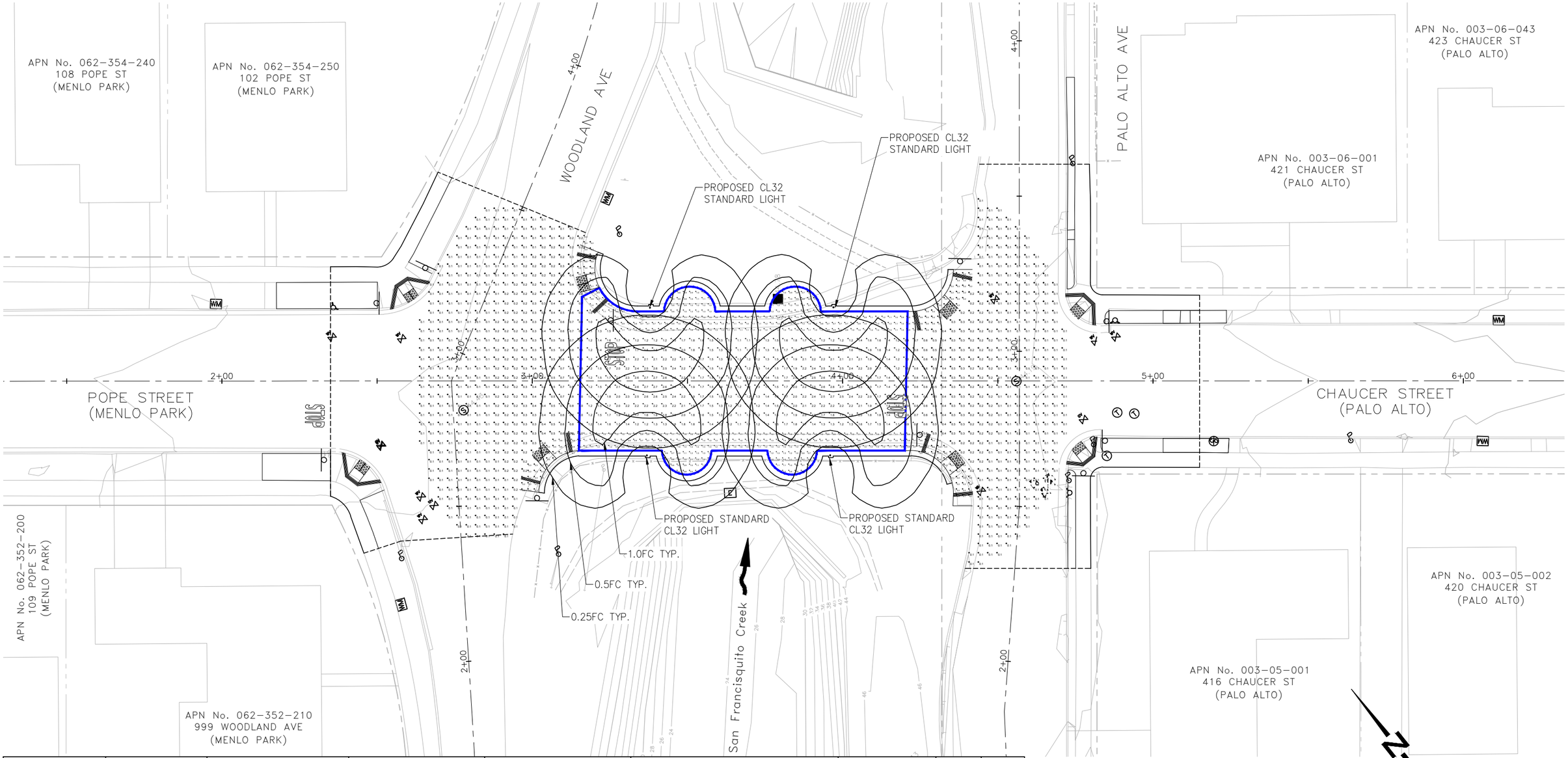

Label	Manufacturer	Catalog Number	Description	Lamp	File	Lumens Per Lamp	LLF	Watts
Standard CL32	SIGNIFY HADCO	CL32xDxxxWxxNx2xxxxx	Narrow Refractive Globe, LED, Metal Roof, Wide Type 3 Optic	LEDGINE LIGHT ARRAY(S) OF 16 LEDs (GX4)	cl32xdxxxxwxxnx2xxxxx-gx4_standard.ies	Absolute	1	39.6

Statistics						
Description	Symbol	Avg	Max	Min	Max/Min	Avg/Min
Roadway	+	0.6 fc	2.8 fc	0.1 fc	28.0:1	6.0:1
Sidewalk	+	0.9 fc	1.6 fc	0.1 fc	16.0:1	9.0:1
Sidewalk	+	0.9 fc	1.6 fc	0.1 fc	16.0:1	9.0:1

PHOTOMETRIC SITE PLAN

STANDARD LIGHTING DISTRIBUTION

POPE/CHAUCER STREET BRIDGE REPLACEMENT
AT SAN FRANCISQUITO CREEK

SANTA CLARA VALLEY WATER DISTRICT

Valley Water

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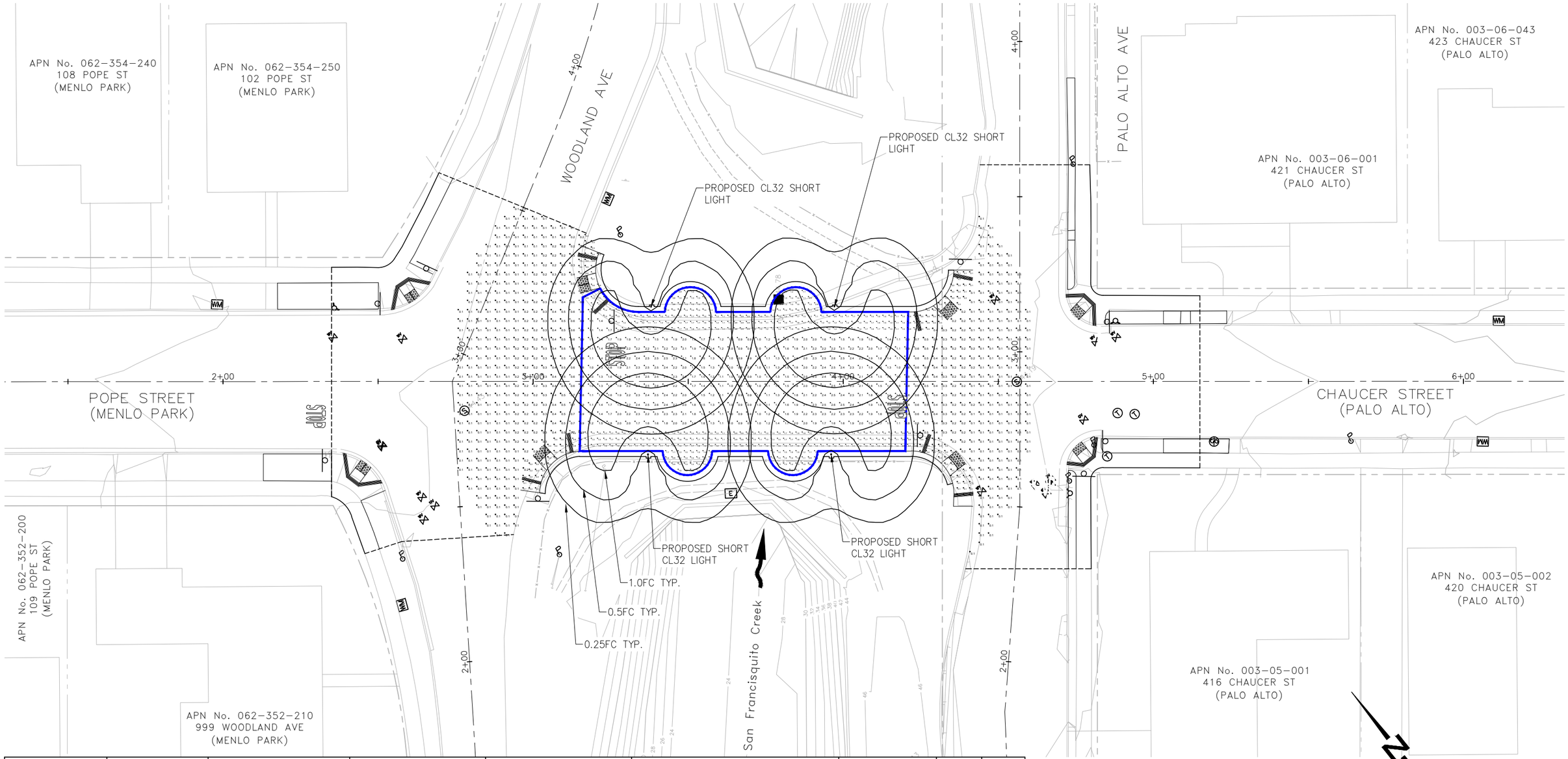

Label	Manufacturer	Catalog Number	Description	Lamp	File	Lumens Per Lamp	LLF	Watts
Short CL32	SIGNIFY HADCO	CL32xDxxxSxxNx2xxxxx	Narrow Refractive Globe, LED, Metal Roof, Short Type 3 Optic	LEDGINE LIGHT ARRAY(S) OF 16 LEDs (GX4)	cl32xdxxxxsxxnx2xxxxx-gx4_short.ies	Absolute	1	39.3

Statistics						
Description	Symbol	Avg	Max	Min	Max/Min	Avg/Min
Roadway	+	0.7 fc	2.6 fc	0.1 fc	26.0:1	7.0:1
Sidewalk	+	1.1 fc	1.9 fc	0.1 fc	19.0:1	11.0:1
Sidewalk	+	1.0 fc	1.9 fc	0.1 fc	19.0:1	10.0:1

NOTE:
THE SHORT CL32 MODEL IS DESIGNED TO AIM THE LIGHT OUTPUT DOWNWARD AND PUT MORE LIGHT UNDER THE POLE AND WILL REDUCE FIXTURE BRIGHTNESS FROM DISTANT ANGLES WHEN COMPARED TO THE STANDARD CL32 MODEL.

PHOTOMETRIC SITE PLAN

SHORT LIGHTING DISTRIBUTION

POPE/CHAUCER STREET BRIDGE REPLACEMENT
AT SAN FRANCISQUITO CREEK

SANTA CLARA VALLEY WATER DISTRICT

Valley Water

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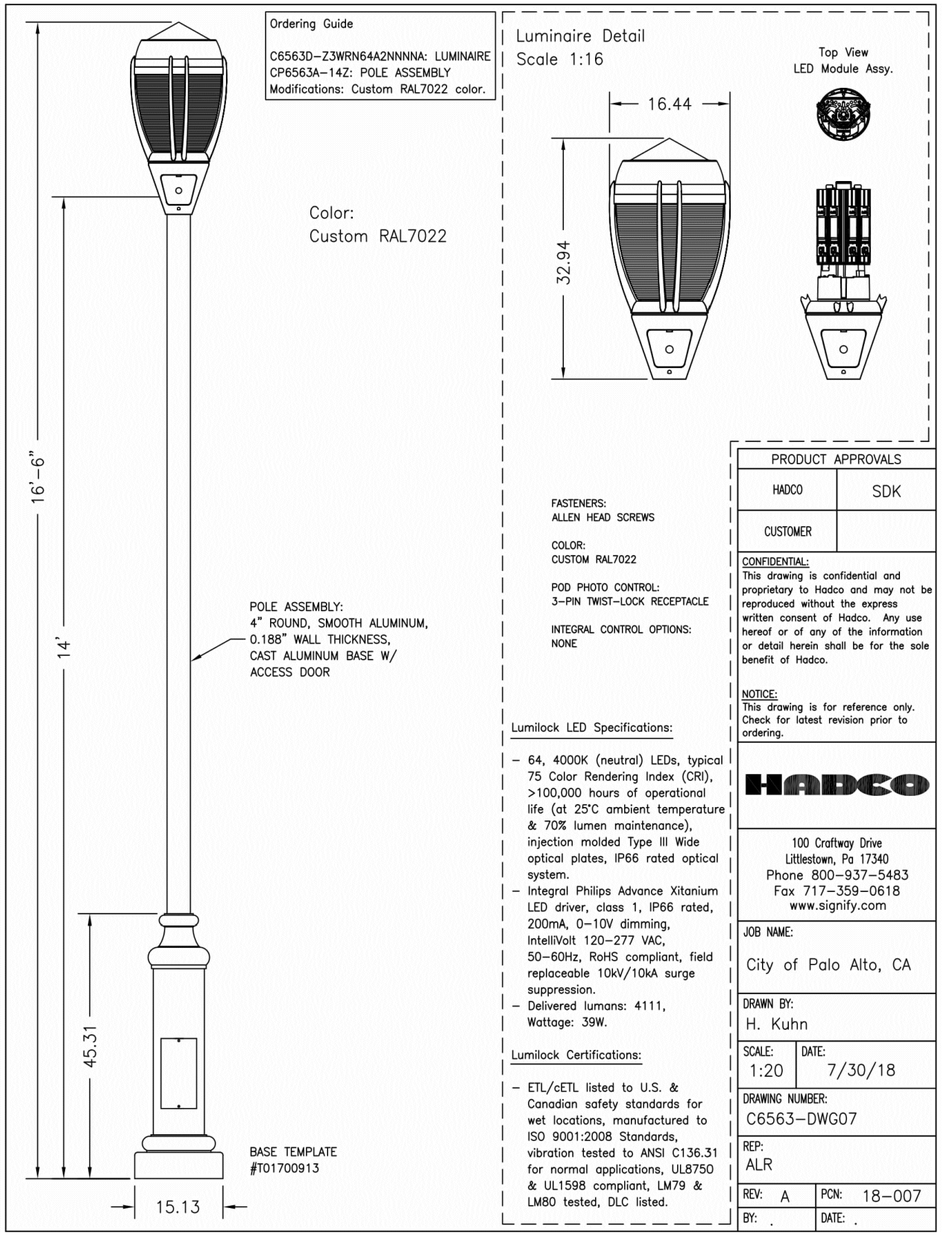

Ordering Guide

C6563D-Z3WRN64A2NNNNA: LUMINAIRE
CP6563A-14Z: POLE ASSEMBLY
Modifications: Custom RAL7022 color.

FASTENERS:
ALLEN HEAD SCREWS

COLOR:
CUSTOM RAL7022

POD PHOTO CONTROL:
3-PIN TWIST-LOCK RECEPTACLE

INTEGRAL CONTROL OPTIONS:
NONE

Lumilock LED Specifications:

- 64, 4000K (neutral) LEDs, typical 75 Color Rendering Index (CRI), >100,000 hours of operational life (at 25°C ambient temperature & 70% lumen maintenance), injection molded Type III Wide optical plates, IP66 rated optical system.
- Integral Philips Advance Xitanium LED driver, class 1, IP66 rated, 200mA, 0-10V dimming, IntelliVolt 120-277 VAC, 50-60Hz, RoHS compliant, field replaceable 10kV/10kA surge suppression.
- Delivered lumans: 4111, Wattage: 39W.

Lumilock Certifications:

- ETL/cETL listed to U.S. & Canadian safety standards for wet locations, manufactured to ISO 9001:2008 Standards, vibration tested to ANSI C136.31 for normal applications, UL8750 & UL1598 compliant, LM79 & LM80 tested, DLC listed.

PRODUCT APPROVALS	
HADCO	SDK
CUSTOMER	

CONFIDENTIAL:
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NOTICE:
This drawing is for reference only. Check for latest revision prior to ordering.

HADCO

100 Craftway Drive
Littlestown, Pa 17340
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Fax 717-359-0618
www.signify.com

JOB NAME: City of Palo Alto, CA	
DRAWN BY: H. Kuhn	
SCALE: 1:20	DATE: 7/30/18
DRAWING NUMBER: C6563-DWG07	
REP: ALR	
REV: A	PCN: 18-007
BY: .	DATE: .

BRIDGE LIGHTING DETAILS

POPE/CHAUCER STREET BRIDGE REPLACEMENT
AT SAN FRANCISQUITO CREEK

SANTA CLARA VALLEY WATER DISTRICT

Valley Water

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VIEW ①

VIEW ②

VIEW ③

VIEW ④

VIEW ⑤

VIEW ⑥

PROJECT SITE PHOTOS - PALO ALTO

POPE/CHAUCER STREET BRIDGE REPLACEMENT
AT SAN FRANCISQUITO CREEK

SANTA CLARA VALLEY WATER DISTRICT

Valley Water

NOTE: SEE PHOTOS LOCATION MAP ON SHEET 14 FOR IMAGE LOCATION AND ORIENTATION.

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VIEW ⑦

VIEW ⑧

VIEW ⑨

VIEW ⑩

VIEW ⑪

VIEW ⑫

PROJECT SITE PHOTOS - MENLO PARK

POPE/CHAUCER STREET BRIDGE REPLACEMENT
AT SAN FRANCISQUITO CREEK

SANTA CLARA VALLEY WATER DISTRICT

Valley Water

NOTE: SEE PHOTOS LOCATION MAP ON SHEET 14 FOR IMAGE LOCATION AND ORIENTATION.

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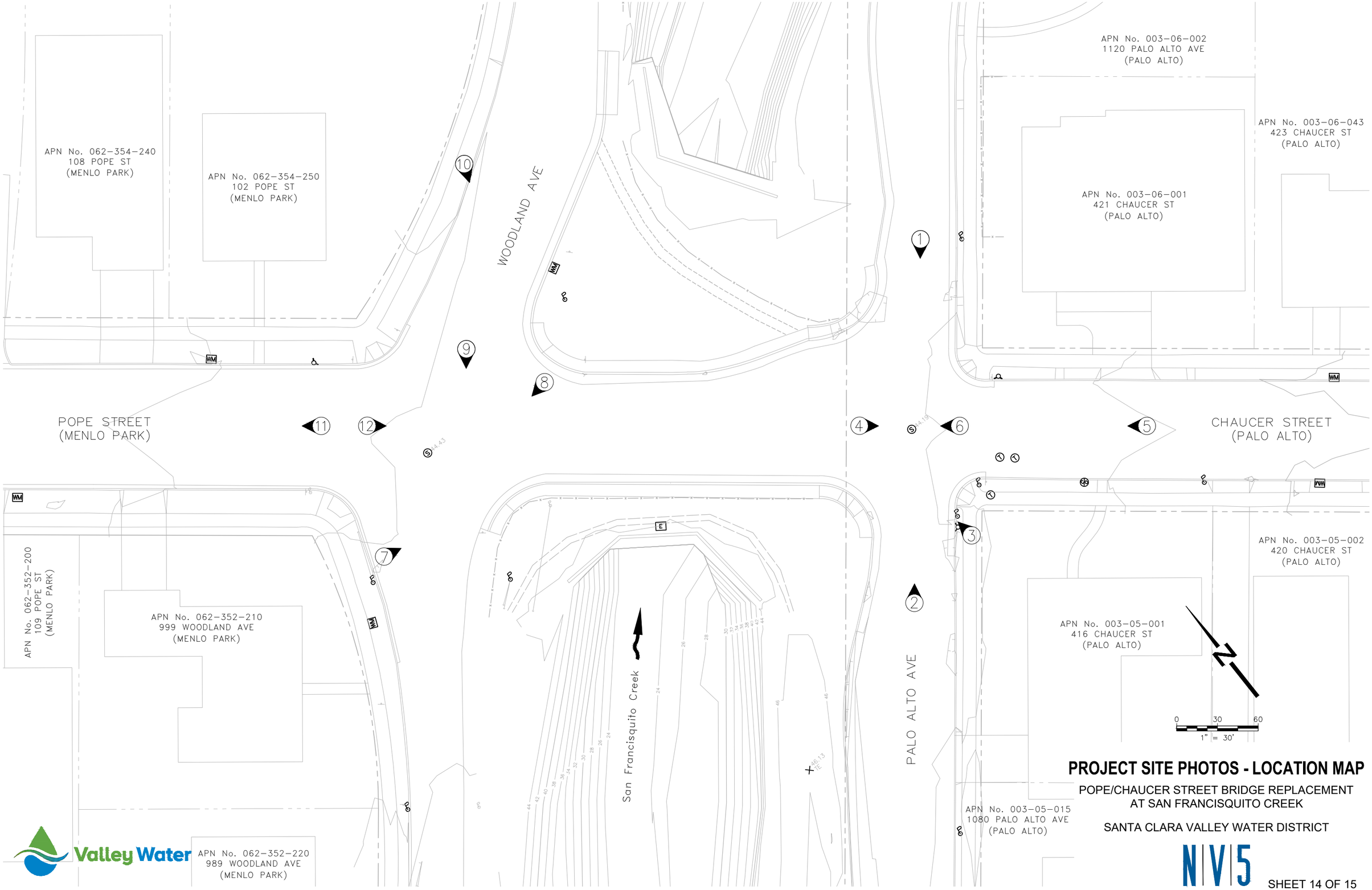

PROJECT SITE PHOTOS - LOCATION MAP

POPE/CHAUCER STREET BRIDGE REPLACEMENT
AT SAN FRANCISQUITO CREEK

SANTA CLARA VALLEY WATER DISTRICT

Valley Water

NV5

SHEET 14 OF 15

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City of Palo Alto
Tree Protection - It's Part of the Plan!

Make sure your crews and subs do the job right!

Fenced enclosures around trees are essential to protect them by keeping the foliage canopy and branching structure clear from contact by equipment, materials and activities, preserving roots and soil conditions in an intact and non-compacted state, and identifying the Tree Protection Zone (TPZ) in which no soil disturbance is permitted and activities are restricted, unless otherwise approved. **An approved tree protection report must be added to this sheet when project activity occurs within the TPZ of a regulated tree.** For detailed information on Palo Alto's regulated trees and protection during development, review the **City Tree Technical Manual** (TTM) found at www.cityofpaloalto.org/trees/.

TREE DISCLOSURE STATEMENT

CITY OF PALO ALTO
Planning Division, 250 Hamilton Avenue
Palo Alto, CA 94301
(650) 329-2441
http://www.cityofpaloalto.org

Palo Alto Municipal Code, Chapter 8.10.040, requires disclosure and protection of certain trees located on private and public property, and that they be shown on approved site plans. A completed disclosure statement must accompany all building permit applications that include exterior work, all demolition or grading permit applications, or other development activity.

PROPERTY ADDRESS: ______________________________

Are there Regulated[1] trees on or adjacent to the property? **YES** **NO** (If no, proceed to Section 4)

[Sections 1- 4 MUST be completed by the applicant. Please circle and/or check where applicable.]

1. Where are the trees? Check those that apply. **(Plans must be submitted showing over 4" diameter trees)**
   - ☐ On the property
   - ☐ On adjacent property overhanging the project site
   - ☐ In the City planter strip or right-of-way easement within 30' of property line (Street Trees)*

*Street trees[1] **require special protection by a fenced enclosure**, per the attached instructions. Prior to receiving any permit, you must provide an authorized Street Tree Protection Verification form by calling Public Works Operations at 493-5953 for inspection of required type I, II or III fencing (see attached Detail #605).

2. Are there any Protected[1] or Designated[1] Trees? **YES** (Check where applicable) **NO**
   - ☐ Protected Tree (s)
   - ☐ Designated Tree (s)
   - ☐ On or overhanging the property

3. Is there activity or grading within the dripline? (radius 10 times the trunk diameter) of these trees? **YES** **NO**
*If Yes, a **Tree Preservation Report** must be prepared by an ISA certified arborist and submitted for staff review (see TTM[2], Section 6.25). Attach this report to Sheet T-1,:Tree Protection, its Part of the Plan!", per Site Plan Requirements.*

4. Are the Site Plan Requirements** completed? **YES** **NO**

**Protection of Regulated trees during development require the following: (1) Plans must show the measured trunk diameter and canopy dripline; (2) Plans must denote, as a bold dashed line, a fenced enclosure area out to the dripline, per Sheet T-1 and Detail #605 - http://www.cityofpaloalto.org/trees/forms.htm (See also TTM[2], Section 2.15 for area to be fenced)

I, the undersigned, agree to the conditions of this disclosure. I understand that knowingly or negligently providing false or misleading information in response to this disclosure requirement constitutes a violation of the Palo Alto Municipal Code Section 8.10.040, which can lead to criminal and/or civil legal action.

Signature: ______________ (Prop. Owner or Agent) Print: ______________ Date: __________

FOR STAFF USE:

Protective Fencing
Sections 5-6 must be **completed by staff** for the issuance of any development permit (demolition, grading or building permit).

5. Protected Trees. The specified tree fencing is in place. A written statement is attached verifying that protective fencing is correctly in place around protected and/or designated trees. **YES** **NO**
(N/A if there are no protected trees, check here ☐)

6. Street Trees. A signed Public Works Street Tree Protection Verification form is attached. **YES** **NO**
(N/A if there are no street trees, check here ☐).

[1] Regulated Trees – a) Street trees – trees on public property; b) Protected trees – Coast Live Oaks or Valley Oaks which are 11.5" in diameter or larger, Coast Redwoods which are 18" in diameter or larger, when measured 54" above natural grade; and Heritage trees are trees designated by City Council; and c) Designated Trees – commercial or non-residential property trees, which are part of an approved landscape plan.

[2] Palo Alto Tree Technical Manual (TTM) contains instructions for all requirements on this form, available at http://www.cityofpaloalto.org/planning-community/tree_technical-manual.html

S:Plan/Pladiv/Arborist/Tree Protection Info/Tree Disclosure Statement — Revised 08/06

City of Palo Alto
250 Hamilton Avenue, Palo Alto, CA 94301

Search: [ ] Advanced — Browse By Topic

Home > Planning & Community Environment

Home | City-owned Trees | Privately-owned Trees | About the Tree Ordinance | Title 8.10 | Heritage Trees | Forms | Tree Technical Manual | FAQs | Contact Us | Resources

Tree Technical Manual

To purchase the Tree Technical Manual

June, 2001 First Edition

View by section:

- Table of Contents (PDF, 87KB)
- Intent and Purpose (PDF, 1.05MB)
- Introduction - Use of Manual (PDF, 1.05MB)
- Section 1.0 - Definitions (PDF, 96KB)
- Section 2.0 - Protection of Trees During Construction (PDF, 259KB)
- Section 3.0 - Removal, Replacement & Planting of Trees (PDF, 117KB)
- Section 4.0 - Hazardous Trees (PDF, 105KB)
- Section 5.0 - Tree Maintenance Guidelines (PDF, 110KB)
- Section 6.0 - Tree Reports (PDF, 84KB)

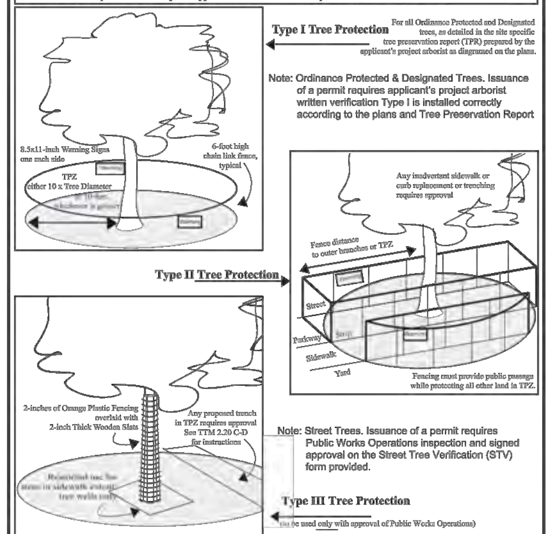
View ALL sections:

- Tree Technical Manual - Full (PDF, 1.84MB)

APPENDICES
A. Palo Alto Municipal Code Chapter 8.10, Tree Preservation & Management Regulations
B: Tree City - USA
C: ISA Hazard Evaluation Form
D: List of Inherent Failure Patterns for Selected Species (Reference source)
E: ISA Tree Pruning Guidelines (PDF, 1.85MB)
F: Tree Care Safety Standards, ANSI Z133.1-1994 (Reference source)
G: Pruning Performance Standards, ANSI A300-1995 (Reference source) H: Tree Planting Details, Diagram 504 & 505
I: Tree Disclosure Statement
J: Palo Alto Standard Tree Protection Instructions

For written specifications associated with illustrations below, see Public Works Specifications Section 31
Detailed specifications are found in the Palo Alto Tree Technical Manual (TTM) (www.cityofpaloalto.org/trees/)

Tree Protection Zone (TPZ) shown in gray (radius of TPZ equals 10-times the diameter of the tree or 10-feet, whichever is greater).
- Restricted activity area – see Tree Technical Manual Sec 2.15(E).
- Restricted trenching area – see Tree Technical Manual Sec 2.20(C-D), any proposed trench or form work within TPZ of a protected tree requires approval from Public Works Operations. Call 650-496-5953.



Tree fencing is required and shall be erected before demolition, grading or construction begins.

Rev	By	Date		
0	DWH	12/14/92	Tree Protection During Construction	Approved by: Dave Dockter; PE No. ____
01	D.D.	08/04/04		Date 2006
02	D.D.	08/10/06		
Scale: NTS			City of Palo Alto Standard	Dwg No. 605

APPENDIX J

PALO ALTO
STREET TREE PROTECTION INSTRUCTIONS
–SECTION 31–

31-1 General
a. **Tree protection has three primary functions,** 1) to keep the foliage canopy and branching structure clear from contact by equipment, materials and activities; 2) to preserve roots and soil conditions in an intact and non-compacted state and 3) to identify the Tree Protection Zone (TPZ) in which no soil disturbance is permitted and activities are restricted, unless otherwise approved.
b. **The Tree Protection Zone (TPZ)** is a restricted area around the base of the tree with a radius of ten-times the diameter of the tree's trunk or ten feet; whichever is greater, enclosed by fencing.

31-2 Reference Documents
a. **Detail 605** – Illustration of situations described below.
b. **Tree Technical Manual (TTM) Forms** (http://www.cityofpaloalto.org/trees/)
   1. Trenching Restriction Zones (TTM, Section 2.20(C))
   2. Arborist Reporting Protocol (TTM, Section 6.30)
   3. Site Plan Requirements (TTM, Section 6.35)
   4. Tree Disclosure Statement (TTM, Appendix J)
c. **Street Tree Verification (STV) Form** (http://www.cityofpaloalto.org/trees/forms)

31-3 Execution
a. **Type I Tree Protection:** The fence shall enclose the entire TPZ of the tree(s) to be protected throughout the life of the construction project. In some parking areas, if fencing is located on paving or concrete that will not be demolished, then the posts may be supported by an appropriate grade level concrete base, if approved by Public Works Operations.
b. **Type II Tree Protection:** For trees situated within a planting strip, only the planting strip and yard side of the TPZ shall be enclosed with the required chain link protective fencing in order to keep the sidewalk and street open for public use.
c. **Type III Tree Protection:** To be used only with approval of Public Works Operations. Trees situated in a tree well or sidewalk planter pit, shall be wrapped with 2-inches of orange plastic fencing from the ground to the first branch and overlaid with 2-inch thick wooden slats bound securely (slats shall not be allowed to dig into the bark). During installation of the plastic fencing, caution shall be used to avoid damaging any branches. Major limbs may also require plastic fencing as directed by the City Arborist.
d. **Size, type and area to be fenced.** All trees to be preserved shall be protected with six (6') foot high chain link fences. Fences are to be mounted on two-inch diameter galvanized iron posts, driven into the ground to a depth of at least 2-feet at no more than 10-foot spacing. Fencing shall extend to the outer branching, unless specifically approved on the STV Form.
e. **'Warning' signs.** A warning sign shall be weather proof and prominently displayed on each fence at 20-foot intervals. The sign shall be minimum 8.5-inches x 11-inches and clearly state in half inch tall letters: "WARNING - Tree Protection Zone - This fence shall not be removed and is subject to a fine according to PAMC Section 8.10.110."
f. **Duration.** Tree fencing shall be erected before demolition; grading or construction begins and remain in place until final inspection of the project, except for work specifically allowed in the TPZ. Work or soil disturbance in the TPZ requires approval by the project arborist or City Arborist (in the case of work around Street Trees). Excavations within the public right of way require a Street Work Permit from Public Works.
g. **During construction**
   1. All neighbors' trees that overhang the project site shall be protected from impact of any kind.
   2. The applicant shall be responsible for the repair or replacement plus penalty of any publicly owned trees that are damaged during the course of construction, pursuant to Section 8.04.070 of the Palo Alto Municipal Code.
   3. The following tree preservation measures apply to all trees to be retained:
      a. No storage of material, topsoil, vehicles or equipment shall be permitted within the TPZ.
      b. The ground under and around the tree canopy area shall not be altered.
      c. Trees to be retained shall be irrigated, aerated and maintained as necessary to ensure survival.

END OF SECTION

City of Palo Alto 2004 Standard Drawings and Specifications
Street Tree Verification of Protection, PWE, Section 31 — Revised 08/06

Table 2-2 — Palo Alto Tree Technical Manual

CONTRACTOR & ARBORIST INSPECTION SCHEDULE

Reference: the Palo Alto Tree Technical Manual is available at www.cityofpaloalto.org/environment

ALL CHECKED ITEMS APPLY TO THIS PROJECT:

1. ☑ **Inspection of Protective Tree Fencing.** For Public Trees, the Street Tree Verification Form shall be signed by the City Arborist. For Protected Trees, the project site arborist shall provide an initial Monthly Tree Activity Report form with a photograph verifying that he has conducted a field inspection of the trees and that the correct type of protective fencing is in place around the designated tree protection zone (TPZ) prior to issuance of a demolition, grading, or building permit. (See TTM, Verification of Tree Protection, Section 1.39).
2. ☑ **Pre-Construction Meeting.** Prior to commencement of construction, the applicant or contractor shall conduct a pre-construction meeting to discuss tree protection with the job site superintendent, grading operators, project site arborist, City Arborist, and, if a city maintained irrigation system is involved, the Parks Manager (Contact 650-496-6962).
3. ☑ **Inspection of Rough Grading or Trenching.** Contractor shall ensure the project site arborist performs an inspection during the course of rough grading or trenching adjacent to or within the TPZ to ensure trees will not be injured by compaction, cut or fill, drainage and trenching, and if required, inspect aeration systems, tree wells, drains and special paving. The contractor shall provide the project arborist at least 24 hours advance notice of such activity.
4. ☑ **Monthly Tree Activity Report Inspections.** The project site arborist shall perform a minimum monthly activity inspection to monitor and advise on conditions, tree health and retention or, immediately if there are *any revisions* to the approved plans or protection measures. The Tree Technical Manual Monthly Tree Activity Report format shall be used and sent to the Planning Dept. landscape review staff no later than 14 days after issuance of building permit date. Fax to (650) 329-2154. (See TTM, Monthly Tree Activity Inspection Report, Addendum 11 & section 1.17).
5. ☑ **Special activity within the Tree Protection Zone.** Work in the TPZ area (see also #7 below) requires the direct onsite supervision of the project arborist (see TTM, Trenching, Excavation & Equipment. Section 2.20 C).
6. ☐ **Landscape Architect Inspection.** For discretionary development projects, prior to temporary or final occupancy the applicant or contractor shall arrange for the Landscape Architect to perform an on site inspection of all plant stock, quality of the materials and planting (see TTM, Planting Quality, Section 5.20.1 A) and that the irrigation is functioning consistent with the approved construction plans. The Planning Dept. landscape review staff shall be in receipt of written verification of Landscape Architect approval prior to scheduling the final inspection, unless otherwise approved.
7. ☐ **List Other** (please describe as called out in the site Tree Preservation Report, Sheet T-1, T-2, etc.)
   - ______________________
   - ______________________

City of Palo Alto Tree Technical Manual — ADDENDUM 11

Arborist Firm Data Here — email; ISCA/ISA Certified Arborist #WE-000; Contact Cell #

Monthly Tree Activity Report- ***Construction Site***

Inspection Date: ______ Inspection #_____	Site address: ______ Palo Alto, CA	Contractor-Main Site Contact Information	#1 Job site superintendent; Company; Email; Job site; Office; Cell; Mail
		Also present:	• ____ • ____
Distribution:	1 City of Palo Alto; 2 Others	Attn: Dave Dockter	Dave.dockter@cityofpaloalto.org 650-329-2440

Provide the requested minimum information with each report; customize as necessary. To be completed by project site arborist. Send monthly to city arborist at above address until project completion. Use additional sheets as needed.

1. Assignment Activity (Demolition/grading/sewer/trenching/foundation/list relevant visits)
   a. Pre-construction meeting requirement with sub-contractors
   b. Inspect to verify that tree protection measures are in place
   c. Determine if field adjustments, watering or plan revisions may be needed
2. Field Observations (general site-wide and list by individual tree number)
   a. Tree Protection Fences (TPF) are
   b. Trenching has/will occur
3. Action Items (list site-wide, by tree number and date to be satisfied) and Date Due
   a. Tree Protection Fence (TPF) needs adjusting (tree # x, x, x)
   b. Root zone buffer material (wood chips) can be installed next
   c. Schedule sewer trench, foundation dig with ...
4. Photographs (use often)
5. Tree Location Map (mandatory 8.5 x 11 sheet)
6. Recommendations, notes or monitor items for project/staff/schedule
   •
7. Past visits (list carry-over items satisfied/still outstanding)
   •

Respectfully submitted,

Project site arborist
Consultant contact information (Include email, cell#, and mailing)
Cc:

Enter Date — CPA Monthly Tree Activity Report: Type site address here — Page #1 of 1

City of Palo Alto
Tree Department
Public Works Operations
PO Box 10250 Palo Alto, CA 94303
650/496-5953 FAX: 650/852-9289
treeprotection@CityofPaloAlto.org

Verification of Street Tree Protection

Applicant Instructions: Complete upper portion of this form. Mail or FAX this form along with signed Tree Disclosure Statement to Public Works Dept. Public Works Tree Staff will inspect and notify applicant.

APPLICATION DATE:	
ADDRESS/LOCATION OF STREET TREES TO BE PROTECTED:	
APPLICANT'S NAME:	
APPLICANT'S ADDRESS:	
APPLICANT'S TELEPHONE & FAX NUMBERS:	

This section to be filled out by City Tree Staff

1. The Street Trees at the above address(es) are adequately protected. The type of protection used is:	YES ☐ NO* ☐ * If NO, go to #2 below
Inspected by:	
Date of Inspection:	
2. The Street Trees at the above address are **NOT** adequately protected. The following modifications are required: Indicate how the required modifications were communicated to the applicant.	

Subsequent Inspection

Street trees at above address were found to be adequately protected:	YES ☐ NO* ☐ * If NO, indicate in "Notes" below the disposition of case.
Inpsected by:	
Date of Inspection:	
Notes: List City street trees by species, site, condition and type of tree protection installed. Also note if pictures were taken. Use back of sheet if necessary.	

Return approved sheet to Applicant for demolition or building permit issuance.
S:PWD/OPS/Tree/DS/SLTreeProtect — 5/17/06

---WARNING---
Tree Protection Zone

This fencing shall not be removed without City Arborist approval (650-496-5953)

Removal without permission is subject to a $500 fine per day*

***Palo Alto Municipal Code Section 8.10.110**

City of Palo Alto Tree Protection Instructions are located at http://www.city.palo-alto.ca.us/trees/technical-manual.html

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SPECIAL INSPECTIONS — **PLANNING DEPARTMENT**

TREE PROTECTION INSPECTIONS MANDATORY

PAMC 8.10 PROTECTED TREES. CONTRACTOR SHALL ENSURE PROJECT SITE ARBORIST IS PERFORMING REQUIRED TREE INSPECTION AND SITE MONITORING. PROVIDE WRITTEN MONTHLY TREE ACTIVITY REPORTS TO THE PLANNING DEPARTMENT LANDSCAPE REVIEW STAFF BEGINNING 14 DAYS AFTER BUILDING PERMIT ISSUANCE.

BUILDING PERMIT DATE: ______________________

DATE OF 1ST TREE ACTIVITY REPORT: ______________________

CITY STAFF: ______________________

REPORTING DETAILS OF THE MONTHLY TREE ACTIVITY REPORT SHALL CONFORM TO SHEET T-1 FORMAT. VERIFY THAT ALL TREE PROTECTION MEASURES ARE IMPLIMENTED AND WILL INCLUDE ALL CONTRACTOR ACTIVITY, SCHEDULED OR UNSCHEDULED, WITHIN A TREE PROTECTION ROOT ZONE. NON-COMPLIANCE IS SUBJECT TO VIOLATION OF PAMC 8.10.080. REFERENCE PALO ALTO TREE TECHNICAL MANUAL SECTION 2.00 AND ADDENDUM 11.

Apply Tree Protection Report on sheet(s) T-2

Use addtional "T" sheets as needed

Valley Water

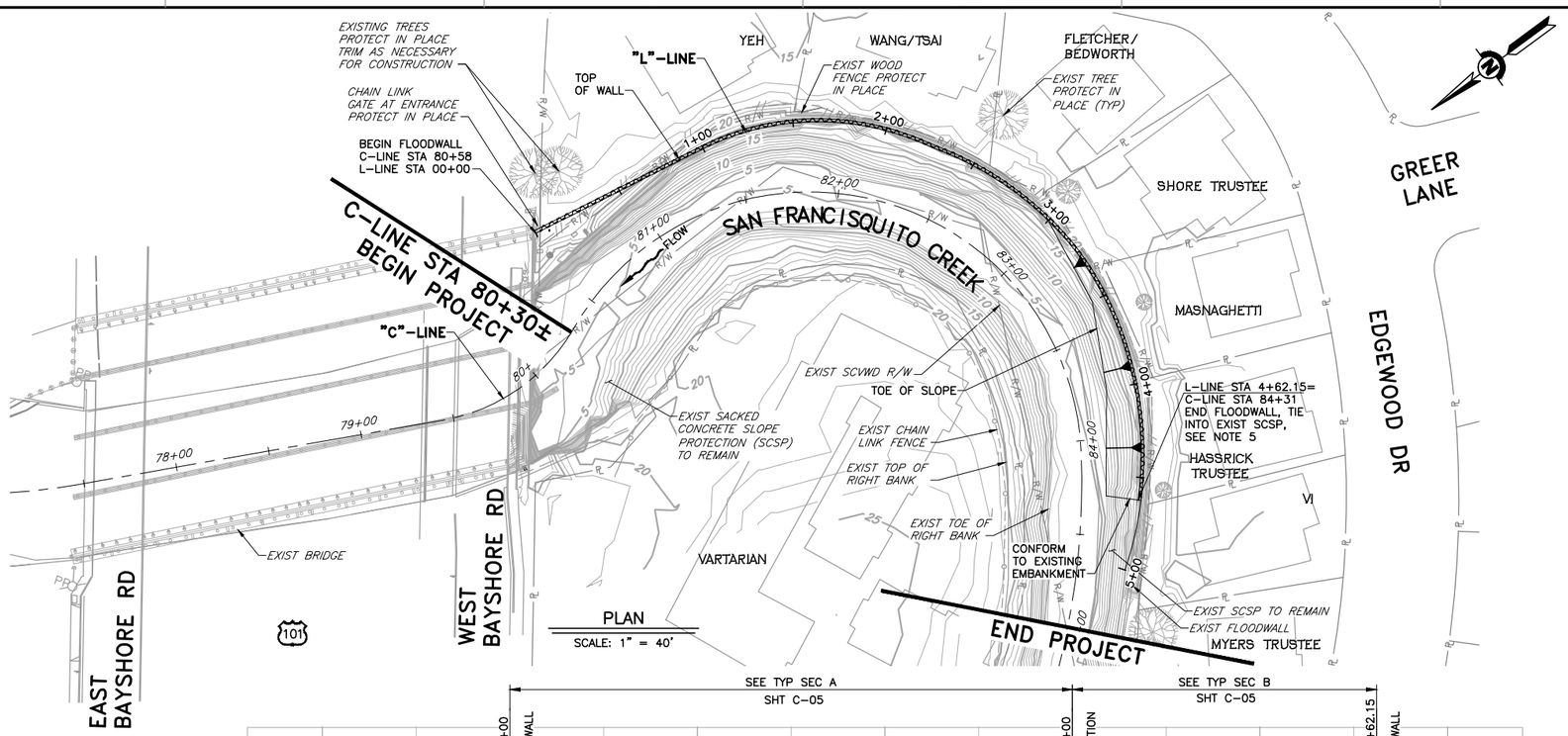
TREE PROTECTION PLAN

POPE/CHAUCER STREET BRIDGE REPLACEMENT
AT SAN FRANCISQUITO CREEK

SANTA CLARA VALLEY WATER DISTRICT

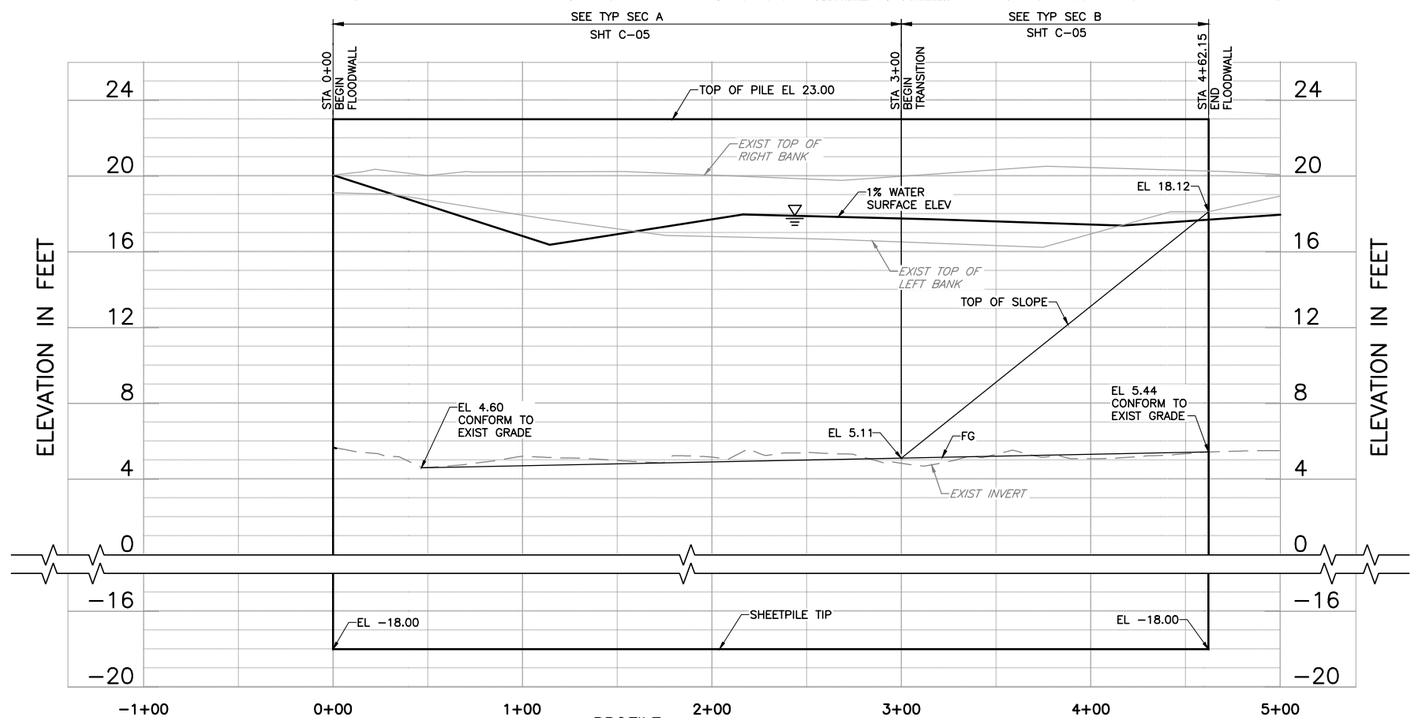
NV5

SHEET 15 OF 15



PLAN

SCALE: 1" = 40'



PROFILE

HORIZ: 1" = 40' VERT: 1" = 4'

NOTES:

1. SAN FRANCISQUITO CREEK IN-CHANNEL TOPOGRAPHIC SURVEY PERFORMED BY BESTOR ENGINEERS, 2008.
2. TREE SURVEY PERFORMED BY SCVWD, 2010.
3. FOR CREEKSIDE RIGHT-OF-WAY AND ALIGNMENT STATION INFORMATION SEE "SURVEY LAYOUT" SHEET.
4. PARCEL INFORMATION PROVIDED BY SCVWD LAND MAPPING AND RIGHT-OF-WAY UNIT.

REV	DESCRIPTION	DATE	APPR	REFERENCE INFORMATION AND NOTES
	60% PRELIMINARY			

DATE OCT 2020
DESIGN L. Jones
DRAWN A. Bennett
CHECKED W. Jacobs

ENGINEERING CERTIFICATION

SANTA CLARA VALLEY WATER DISTRICT

Valley Water

PROJECT NAME AND SHEET DESCRIPTION:

SAN FRANCISQUITO CREEK
WEST BAYSHORE ROAD
NEWELL ROAD TO EUCLID AVENUE

PLAN AND PROFILE
C-LINE STA 80+30± TO STA 85+00

SCALE: AS SHOWN

VERIFY SCALES: 0 — 1"
BAR IS ONE INCH ON ORIGINAL DRAWING IF NOT ONE INCH ON THIS SHEET, ADJUST SCALES ACCORDINGLY

PROJECT NUMBER: 26284001

SHEET CODE: C-01

SHEET NUMBER: 12 OF 47

DOCUMENT NUMBER: XXXX-X-0000-0000000.00

USERNAME: ABENNETT 10/1/2020 12:06 PM
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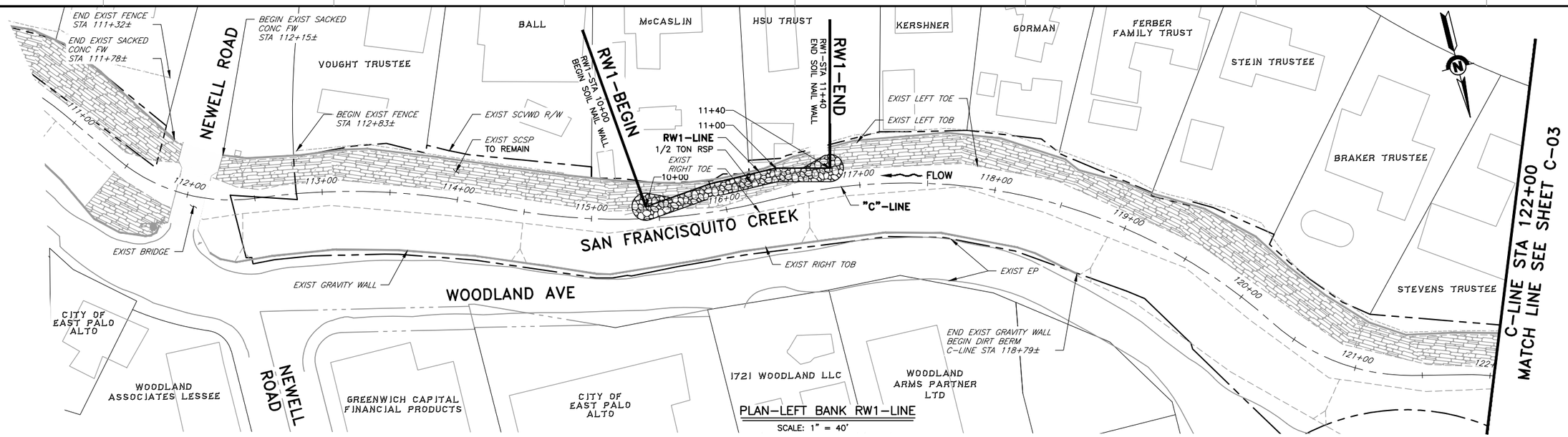
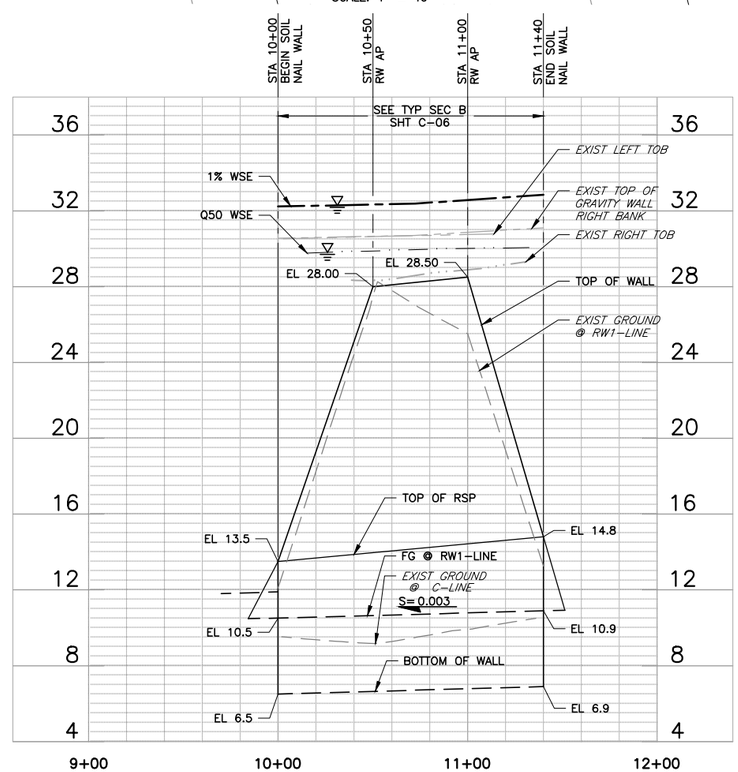


PLAN-LEFT BANK RW1-LINE

SCALE: 1" = 40'



PROFILE-LEFT BANK RW1-LINE

HORIZ: 1" = 40'
VERT: 1" = 4'

NOTES:
1. EXISTING TREES NOT SHOWN ON THIS SHEET FOR CLARITY.
2. SEE SHEETS C-11 AND C-12 FOR UTILITIES.

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DOCUMENT NUMBER: XXXX-XXX-XXX

REV	DESCRIPTION	DATE	APPR
	95% PRELIMINARY 08-01-2019		

REFERENCE INFORMATION AND NOTES
1. SAN FRANCISQUITO CREEK IN-CHANNEL TOPOGRAPHIC SURVEY PERFORMED BY BESTOR ENGINEERS, 2008.
2. TOP OF BANK SURVEY PERFORMED BY SCVWD, 2010 STA 112+00 TO STA 141+20.83.
3. TREE SURVEY PERFORMED BY SCVWD, 2010. SEE SHEETS G-09, G-10 AND G-11.
4. SEE SURVEY LAYOUT SHEETS FOR CREEKSIDE RIGHT-OF-WAY AND ALIGNMENT STATION INFORMATION.
5. EXISTING UTILITIES SHOW APPROXIMATE LOCATIONS AND ARE TO BE VERIFIED BY THE CONTRACTOR.
6. PARCEL INFORMATION PROVIDED BY SCVWD LAND MAPPING AND RIGHT-OF-WAY UNIT.

DATE MAR 2019
DESIGN K. SIBLEY
DRAWN A. ABDEL
CHECKED S. HOSSEINI

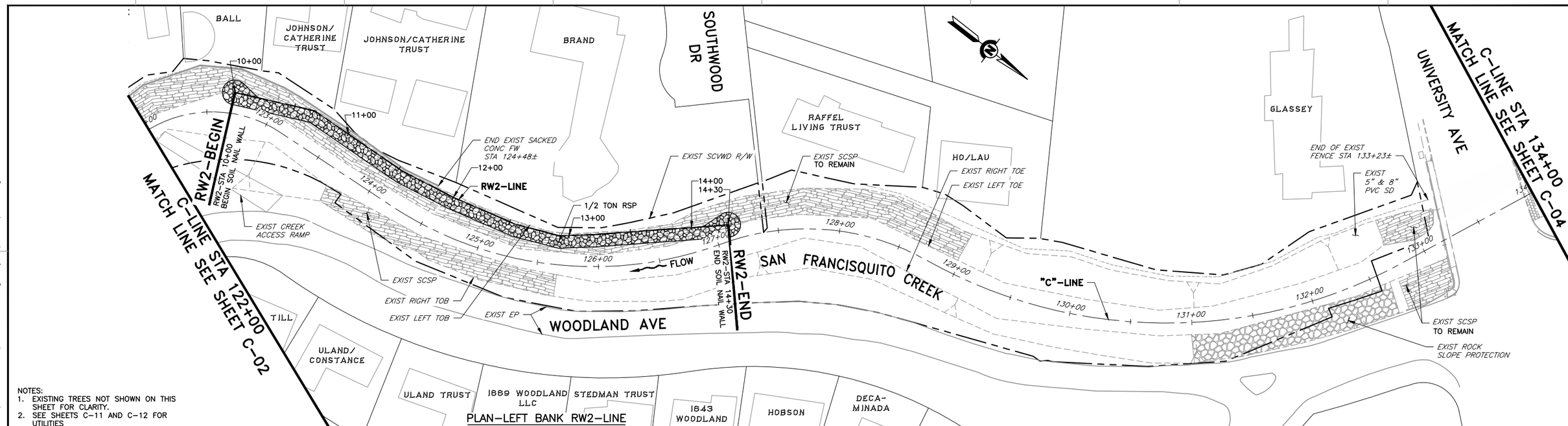
ENGINEERING CERTIFICATION
PROJECT ENGINEER DATE

SANTA CLARA VALLEY WATER DISTRICT
Valley Water

PROJECT NAME AND SHEET DESCRIPTION:
SAN FRANCISQUITO CREEK
WEST BAYSHORE ROAD
NEWELL ROAD TO EUCLID AVENUE
PLAN AND PROFILE
RW1-LINE STA 10+00 TO STA 11+40

SCALE AS SHOWN
VERIFY SCALES 0 1"
BAR IS ONE INCH ON ORIGINAL DRAWING IF NOT ONE INCH ON THIS SHEET, ADJUST SCALES ACCORDINGLY

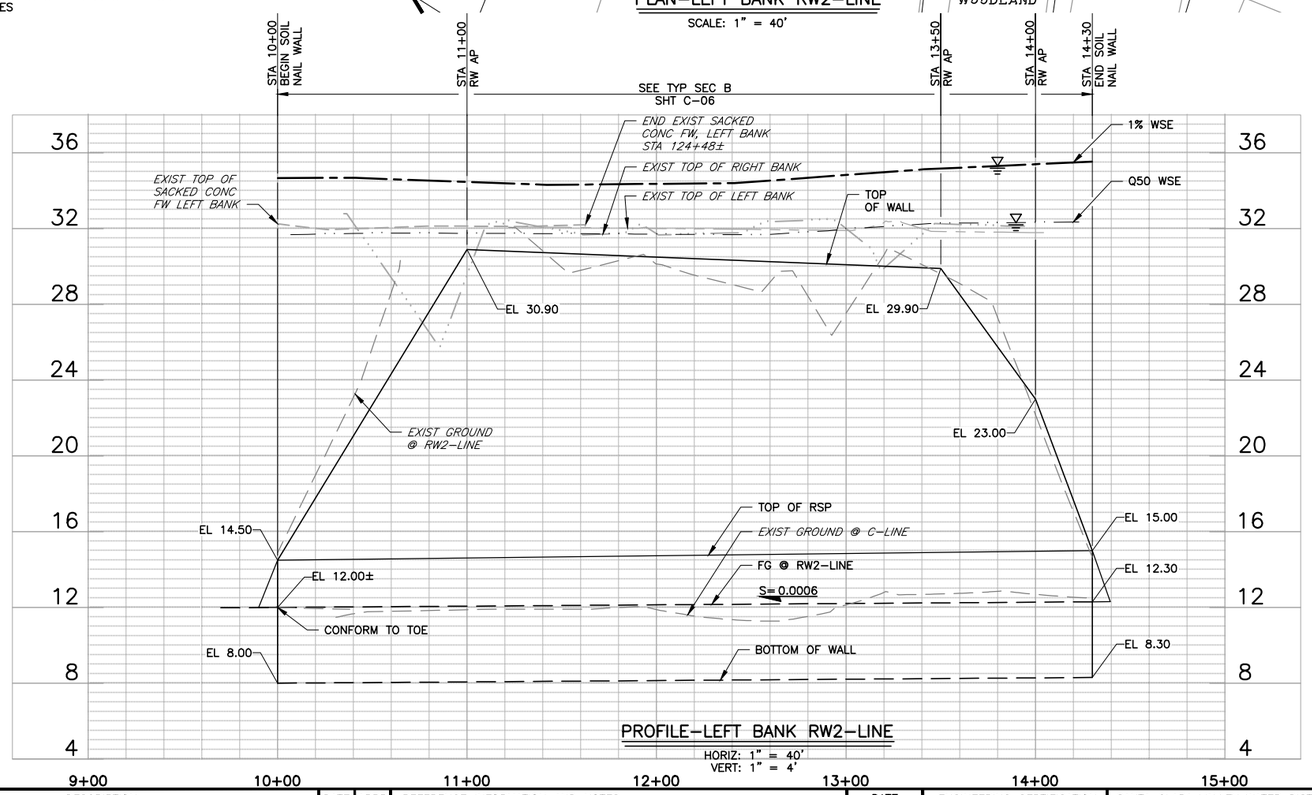
PROJECT NUMBER 26284001
SHEET CODE: C-02
SHEET NUMBER: 13 OF 47



NOTES:
1. EXISTING TREES NOT SHOWN ON THIS SHEET FOR CLARITY.
2. SEE SHEETS C-11 AND C-12 FOR UTILITIES

PLAN-LEFT BANK RW2-LINE

SCALE: 1" = 40'



PROFILE-LEFT BANK RW2-LINE

HORIZ: 1" = 40'
VERT: 1" = 4'

REV	DESCRIPTION	DATE	APPR
	95% PRELIMINARY 08-01-2019		

REFERENCE INFORMATION AND NOTES
1. SAN FRANCISQUITO CREEK IN-CHANNEL TOPOGRAPHIC SURVEY PERFORMED BY BESTOR ENGINEERS, 2008.
2. TOP OF BANK SURVEY PERFORMED BY SCVWD, 2010 STA 112+00 TO STA 141+20.83.
3. TREE SURVEY PERFORMED BY SCVWD, 2010. SEE SHEETS G-09, G-10 AND G-11.
4. SEE SURVEY LAYOUT SHEETS FOR CREEKSIDE RIGHT-OF-WAY AND ALIGNMENT STATION INFORMATION.
5. EXISTING UTILITIES SHOW APPROXIMATE LOCATIONS AND ARE TO BE VERIFIED BY THE CONTRACTOR.
6. PARCEL INFORMATION PROVIDED BY SCVWD LAND MAPPING AND RIGHT-OF-WAY UNIT.

DATE MAR 2019
DESIGN K. SIBLEY
DRAWN A. ABDEL
CHECKED S. HOSSEINI

ENGINEERING CERTIFICATION
PROJECT ENGINEER DATE

SANTA CLARA VALLEY WATER DISTRICT
Valley Water

PROJECT NAME AND SHEET DESCRIPTION:
SAN FRANCISQUITO CREEK
WEST BAYSHORE ROAD
NEWELL ROAD TO EUCLID AVENUE
PLAN AND PROFILE
RW2-LINE STA 10+00 TO STA 14+30

SCALE AS SHOWN
VERIFY SCALES 0 1"
BAR IS ONE INCH ON ORIGINAL DRAWING IF NOT ONE INCH ON THIS SHEET, ADJUST SCALES ACCORDINGLY

PROJECT NUMBER 26284001
SHEET CODE: C-03
SHEET NUMBER: 14 OF 47

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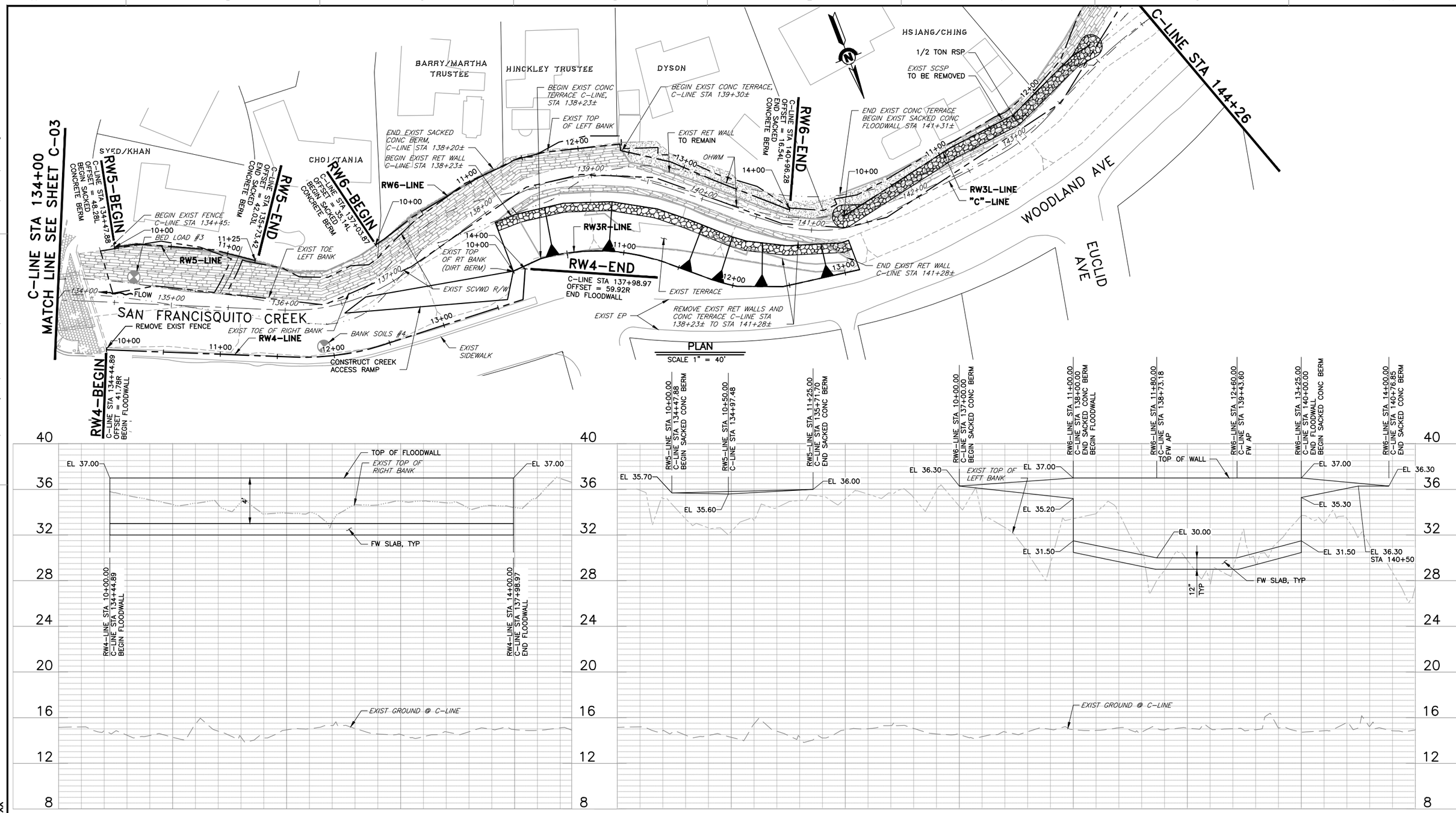

PROFILE-RIGHT BANK: RW4-LINE

HORIZ: 1" = 40'
VERT: 1" = 4'

PROFILE-LEFT BANK: RW5-LINE & RW6-LINE

HORIZ: 1" = 40'
VERT: 1" = 4'

REV	DESCRIPTION	DATE	APPR
	90% PRELIMINARY 09-09-2020		

REFERENCE INFORMATION AND NOTES
1. SAN FRANCISQUITO CREEK IN-CHANNEL TOPOGRAPHIC SURVEY PERFORMED BY BESTOR ENGINEERS, 2008.
2. TOP OF BANK SURVEY PERFORMED BY SCVWD, 2010 STA 112+00 TO STA 141+20.83.
3. TREE SURVEY PERFORMED BY SCVWD, 2010. SEE SHEETS G-09, G-10 AND G-11.
4. SEE SURVEY LAYOUT SHEETS FOR CREEKSIDE RIGHT-OF-WAY AND ALIGNMENT STATION INFORMATION.
5. EXISTING UTILITIES SHOW APPROXIMATE LOCATIONS AND ARE TO BE VERIFIED BY THE CONTRACTOR.
6. PARCEL INFORMATION PROVIDED BY SCVWD LAND MAPPING AND RIGHT-OF-WAY UNIT.

DATE	SEP 2020
DESIGN	E. MEYER
DRAWN	J. CORDOVA
CHECKED	P. PARK

ENGINEERING CERTIFICATION

PROJECT ENGINEER DATE

Valley Water

PROJECT NAME AND SHEET DESCRIPTION:

SAN FRANCISQUITO CREEK EARLY IMPLEMENTATION PROJECT

PLAN AND PROFILE

RW4-LINE (RIGHT BANK), RW5-LINE (LEFT BANK) AND RW6-LINE (LEFT BANK)

SCALE: AS SHOWN

VERIFY SCALES: 0 — 1"
BAR IS ONE INCH ON ORIGINAL DRAWING IF NOT ONE INCH ON THIS SHEET, ADJUST SCALES ACCORDINGLY

PROJECT NUMBER: 26284002

SHEET CODE: C-05

SHEET NUMBER: 15 OF XXX

DOCUMENT NUMBER: XXXX-XXX-XXX

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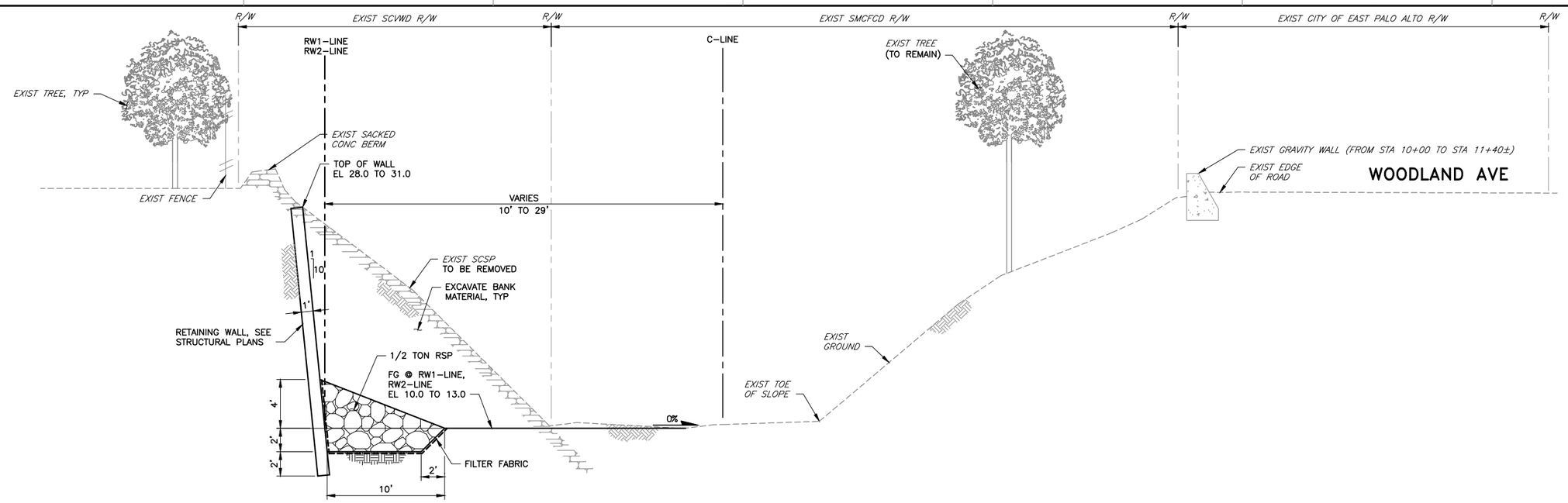
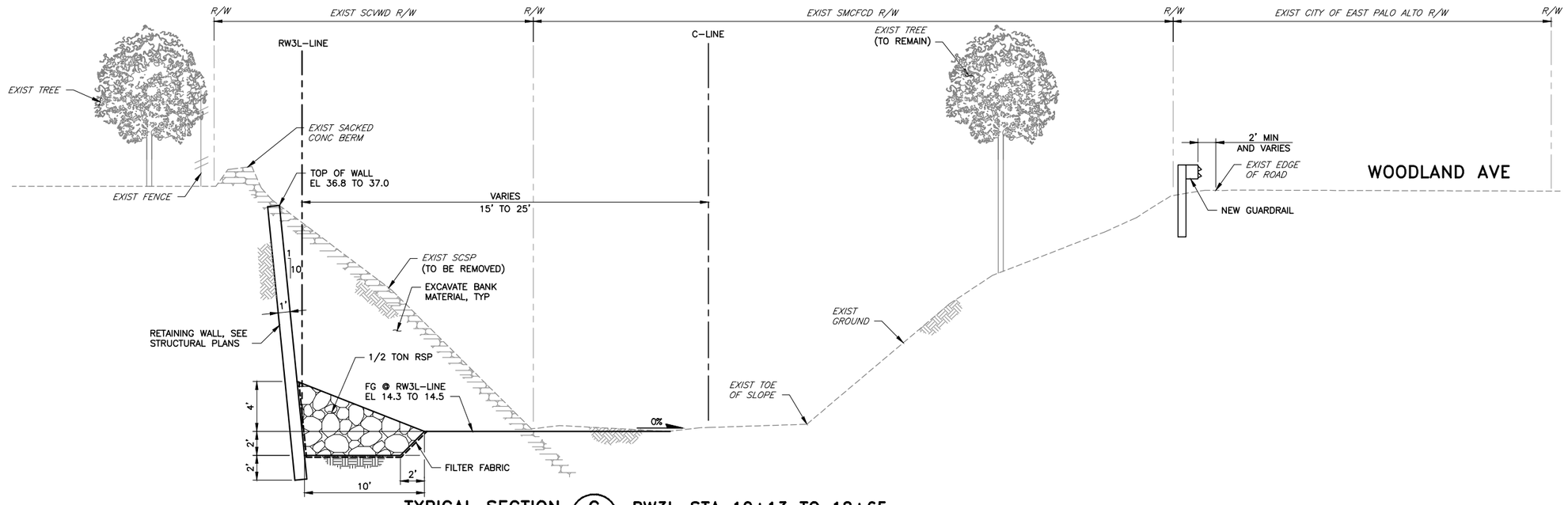


TYPICAL SECTION (B / C–02 / C–03) RW1–STA 10+00 TO 11+40
RW2–STA 10+00 TO 14+30
SCALE: NTS



TYPICAL SECTION (C / C–04) RW3L–STA 10+13 TO 12+65
SCALE: NTS

REV	DESCRIPTION	DATE	APPR
	95% PRELIMINARY 08-01-2019		

REFERENCE INFORMATION AND NOTES
1. ALL TYPICAL SECTIONS ARE LOOKING UPSTREAM.
2. TOP OF FLOODWALL ELEVATIONS TO MATCH ON LEFT AND RIGHT BANKS.

DATE MAR 2019
DESIGN K. SIBLEY
DRAWN A. ABDEL
CHECKED S. HOSSEINI

ENGINEERING CERTIFICATION
PROJECT ENGINEER DATE

SANTA CLARA VALLEY WATER DISTRICT
Valley Water

PROJECT NAME AND SHEET DESCRIPTION:
SAN FRANCISQUITO CREEK
WEST BAYSHORE ROAD
NEWELL ROAD TO EUCLID AVENUE
TYPICAL CROSS–SECTIONS

SCALE AS SHOWN
VERIFY SCALES 0 1"
BAR IS ONE INCH ON ORIGINAL DRAWING IF NOT ONE INCH ON THIS SHEET, ADJUST SCALES ACCORDINGLY

PROJECT NUMBER 26284001
SHEET CODE: C–06
SHEET NUMBER: 17 OF 47

DOCUMENT NUMBER: XXXX–XXX–XXX
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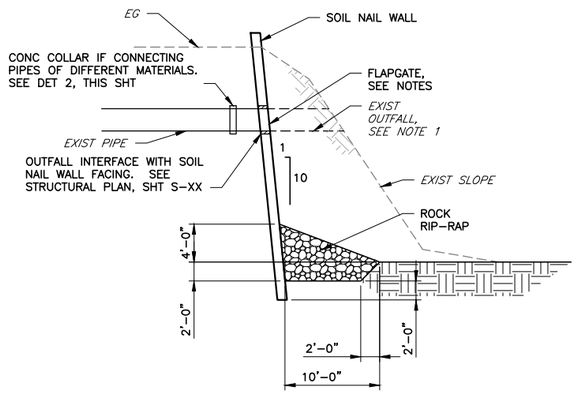
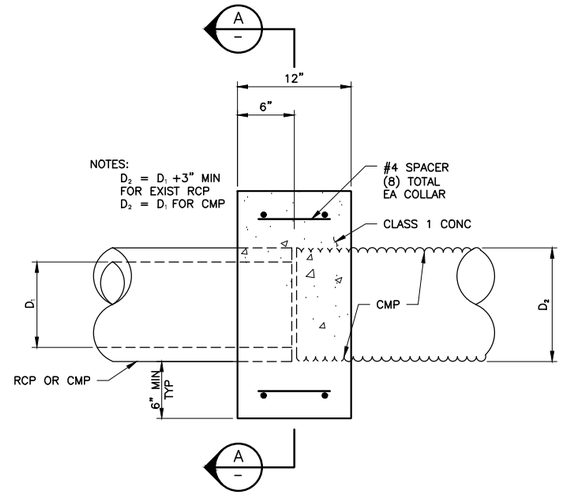


NOTES:
1. CUT BACK ANY DAMAGED PORTION OF PIPE AND EXTEND NEW CMP OUTFALL PER DETAIL ABOVE TO SOIL NAIL WALL AND CUT FLUSH WITH WALL. USE CONCRETE COLLAR IF CONNECTING PIPE OF DIFFERENT MATERIALS.
2. FLAPGATE SHALL BE WATERMAN MODEL F-10, OR FRESNO MODEL 10C, OR APPROVED EQUAL, WITH SAFETY BARS AND FASHENINGS.
3. STORM DRAIN OUTFALLS THROUGH SLOPES USE SPIGOT BACK FLAPGATE & STORM DRAIN OUTFALLS THROUGH VERTICAL (NEAR VERTICAL WALLS USE FLATBACK FLAPGATE).
4. SIZE FLAPGATES TO ACCOMODATE INCREASED DIAMETER OF ANGLED OUTFALL PIPES.

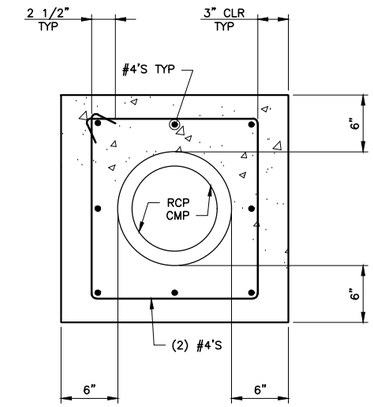
DETAIL 1 – OUTFALL MODIFICATION @ SOIL NAIL WALL

SCALE: NTS



DETAIL 2 – CONC COLLAR

SCALE: 1 1/2" = 1'-0"



SECTION A – CONC COLLAR

SCALE: 1 1/2" = 1'-0"

REV	DESCRIPTION	DATE	APPR
	95% PRELIMINARY 08-01-2019		

REFERENCE INFORMATION AND NOTES
1. LOCATIONS OF BORINGS ARE APPROXIMATE.
2. SPREADSHEET LISTS GEOTECHNICAL DATA POINTS PROVIDED ON A GOOGLE EARTH MAP BY USACE ON JUNE 1, 2011.

DATE MAR 2019
DESIGN M.THUMMALURU
DRAWN M. KOST
CHECKED S. HOSSEINI

ENGINEERING CERTIFICATION
PROJECT ENGINEER DATE

SANTA CLARA VALLEY WATER DISTRICT
Valley Water

PROJECT NAME AND SHEET DESCRIPTION:
SAN FRANCISQUITO CREEK
WEST BAYSHORE ROAD
NEWELL ROAD TO EUCLID AVENUE
DETAILS

SCALE AS SHOWN
VERIFY SCALES 0 1"
BAR IS ONE INCH ON ORIGINAL DRAWING IF NOT ONE INCH ON THIS SHEET, ADJUST SCALES ACCORDINGLY

PROJECT NUMBER 26284001
SHEET CODE: C-08
SHEET NUMBER: 19 OF 47

USERNAME: JENNFORD 8/1/2019 9:20 AM
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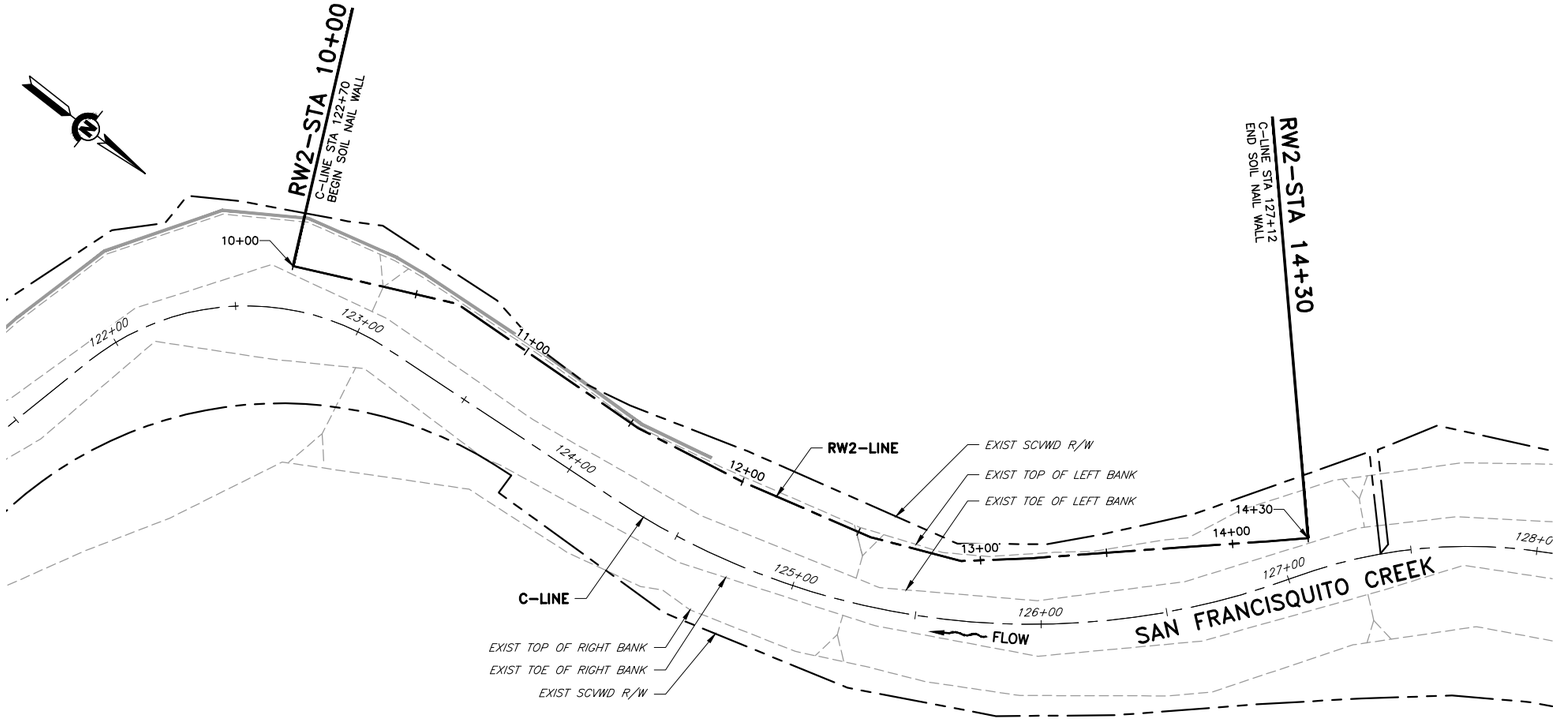
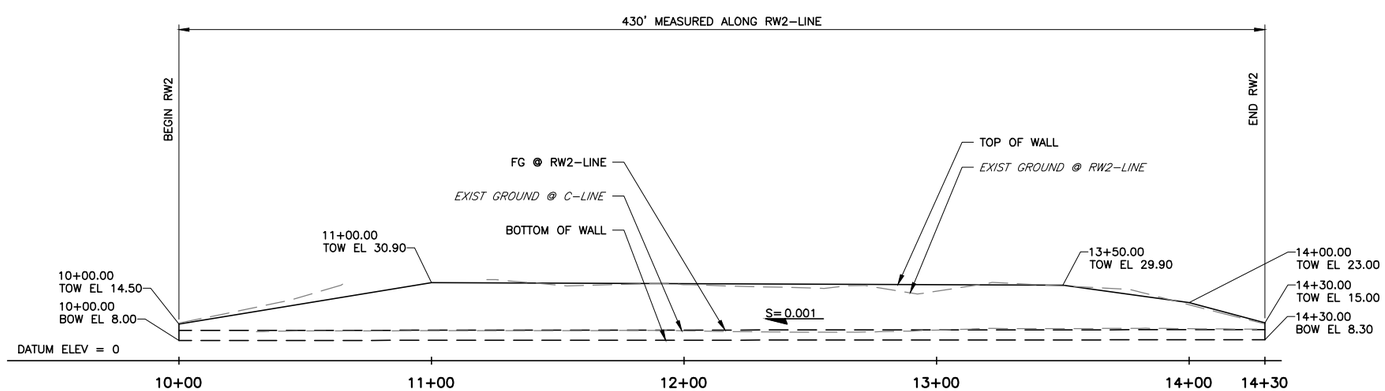
DOCUMENT NUMBER: XXXX-XXX-XXX



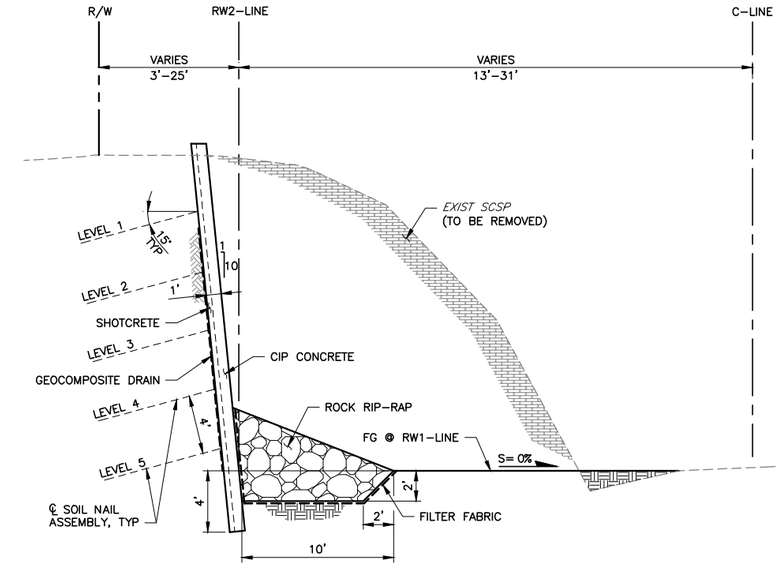
PLAN – RW2

SCALE: 1" = 30'



ELEVATION – RW2

SCALE: 1" = 30'



TYPICAL SECTION A – RW2

SCALE: NTS

LOOKING UPSTREAM

NOTES:

1. FOR DETAILS OF WALL FACING, SOIL NAIL ASSEMBLY, TEST SOIL NAIL ASSEMBLY, DRAINAGE, AND OTHER MISCELLANEOUS DETAILS, SEE THE APPROPRIATE DETAILS SHEETS.
2. SEE TYPICAL SECTION ON SOIL NAIL WALL SEC A, SHT S–12 CIP CONCRETE AND SHOTCRETE LIMITS.

GENERAL NOTES:

DESIGN:	SERVICE LOAD DESIGN METHOD PER FHWA MANUAL FOR DESIGN & CONSTRUCTION–MONITORING OF SOIL NAIL WALLS (FHWA–SA–96–069R AND FHWA 0–IF–03–017)
LIVE LOAD:	SURCHARGE = 250 psf
REINFORCED CONCRETE:	fy = 60,000 psi f'y = 4,000 psi
SHOTCRETE;	fy = 60,000 psi f'y = 4,000 psi
SOIL NAILS ASSEMBLY:	ASTM DESIGNATION: A615 fy = 60,000 psi NAIL GROUT f'c = 3,000 psi
STRUCTURAL STEEL:	ASTM DESIGNATION: A709 fy = 36,000 psi
HEADED STUD:	ASTM DESIGNATION; A307 fy = 36,000 psi
DESIGN PARAMETERS (SOIL)	ø = 30' c = 0 psf Y = 100 pcf Qd = 0.90 k/ft
PSEUDE–STATIC SEISMIC ACCELERATION:	COEFFICIENT = 0.23 g

USERNAME: JENNFORD 8/1/2019 9:23 AM
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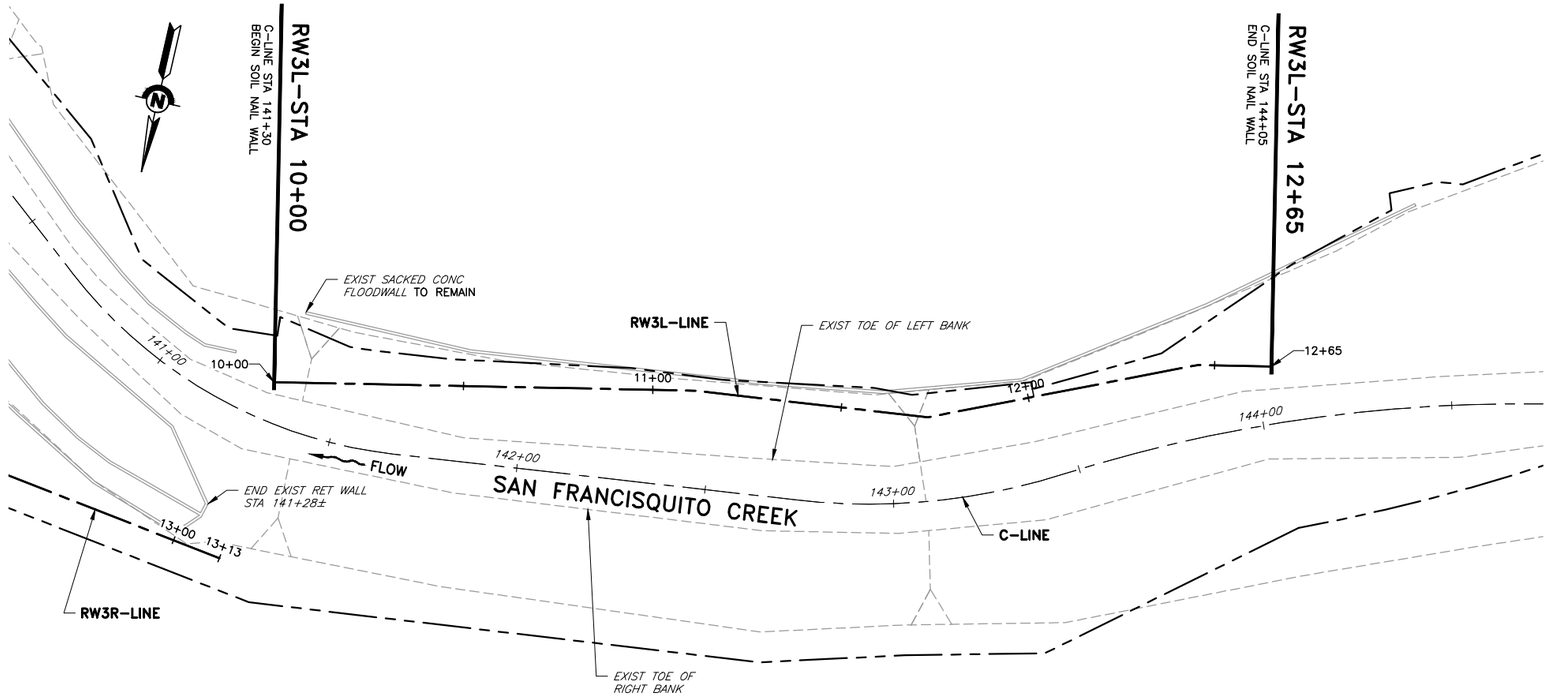
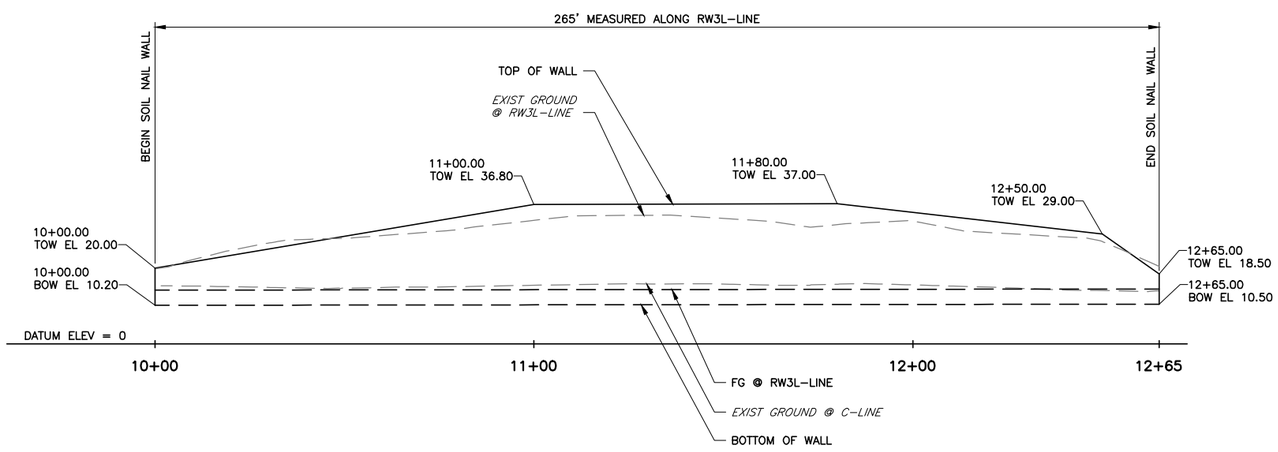
DOCUMENT NUMBER: XXXX–XXX–XXX

REV	DESCRIPTION	DATE	APPR	REFERENCE INFORMATION AND NOTES	DATE MAR 2019	ENGINEERING CERTIFICATION	SANTA CLARA VALLEY WATER DISTRICT	PROJECT NAME AND SHEET DESCRIPTION:	SCALE AS SHOWN	PROJECT NUMBER 26284001
	95% PRELIMINARY 08-01-2019				DESIGN K. SIBLEY		Valley Water	SAN FRANCISQUITO CREEK WEST BAYSHORE ROAD NEWELL ROAD TO EUCLID AVENUE	VERIFY SCALES 0 1" BAR IS ONE INCH ON ORIGINAL DRAWING IF NOT ONE INCH ON THIS SHEET, ADJUST SCALES ACCORDINGLY	SHEET CODE: S–05
					DRAWN A. ABDEL			"RW2" SOIL NAIL WALL – GENERAL PLAN		
					CHECKED S. HOSSEINI	PROJECT ENGINEER DATE				SHEET NUMBER: 28 OF 47



PLAN – RW3L

SCALE: 1" = 20'



ELEVATION – RW3L

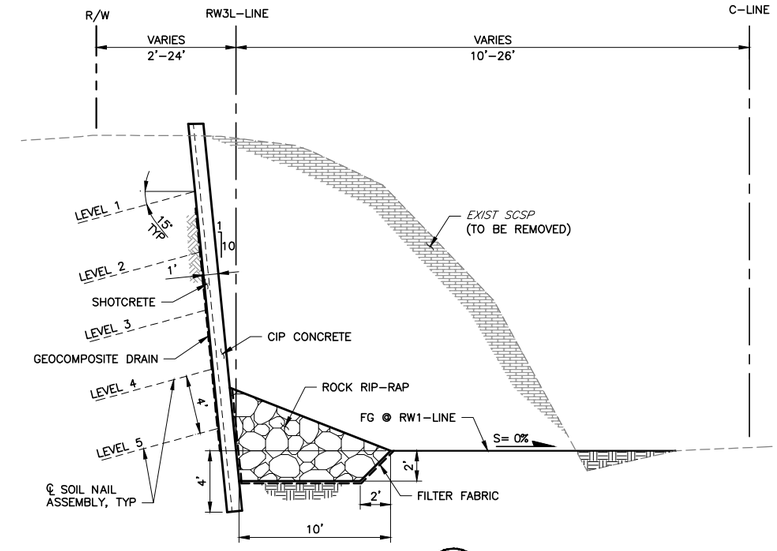
SCALE: 1" = 20'

NOTES:

1. FOR DETAILS OF WALL FACING, SOIL NAIL ASSEMBLY, TEST SOIL NAIL ASSEMBLY, DRAINAGE, AND OTHER MISCELLANEOUS DETAILS, SEE THE APPROPRIATE DETAILS SHEETS.
2. SEE TYPICAL SECTION ON SOIL NAIL WALL SEC A, SHT S–12 CIP CONCRETE AND SHOTCRETE LIMITS.

GENERAL NOTES:

DESIGN:	SERVICE LOAD DESIGN METHOD PER FHWA MANUAL FOR DESIGN & CONSTRUCTION–MONITORING OF SOIL NAIL WALLS (FHWA–SA–96–069R AND FHWA 0–IF–03–017)
LIVE LOAD:	SURCHARGE = 250 psf
REINFORCED CONCRETE:	fy = 60,000 psi f'y = 4,000 psi
SHOTCRETE;	fy = 60,000 psi f'y = 4,000 psi
SOIL NAILS ASSEMBLY:	ASTM DESIGNATION: A615 fy = 60,000 psi NAIL GROUT f'c = 3,000 psi
STRUCTURAL STEEL:	ASTM DESIGNATION: A709 fy = 36,000 psi
HEADED STUD:	ASTM DESIGNATION; A307 fy = 36,000 psi
DESIGN PARAMETERS (SOIL)	ø = 30' c = 0 psf Y = 100 pcf Qd = 0.90 k/ft
PSEUDE–STATIC SEISMIC ACCELERATION:	COEFFICIENT = 0.23 g



TYPICAL SECTION A – RW3L

SCALE: NTS

LOOKING UPSTREAM

REV	DESCRIPTION	DATE	APPR
	95% PRELIMINARY 08-01-2019		

REFERENCE INFORMATION AND NOTES
1. SAN FRANCISQUITO CREEK IN–CHANNEL TOPOGRAPHIC SURVEY PERFORMED BY BESTOR ENGINEERS, 2008.
2. TOP OF BANK SURVEY PERFORMED BY SCVWD, 2010 STA 112+00 TO STA 141+20.83.
3. TREE SURVEY PERFORMED BY SCVWD, 2010. SEE SHEETS G–07, G–08 AND G–09.
4. SEE SURVEY LAYOUT SHEETS FOR CREEKSIDE RIGHT–OF–WAY AND ALIGNMENT STATION INFORMATION.
5. SEE SHEET C–X FOR TRAFFIC CONTROL PLAN.
6. EXISTING UTILITIES SHOW APPROXIMATE LOCATIONS AND ARE TO BE VERIFIED BY THE CONTRACTOR.
7. PARCEL INFORMATION PROVIDED BY SCVWD LAND MAPPING AND RIGHT–OF–WAY UNIT.

DATE	MAR 2019
DESIGN	K. SIBLEY
DRAWN	A. ABDEL
CHECKED	S. HOSSEINI

ENGINEERING CERTIFICATION

PROJECT ENGINEER DATE

SANTA CLARA VALLEY WATER DISTRICT

Valley Water

PROJECT NAME AND SHEET DESCRIPTION:

SAN FRANCISQUITO CREEK
WEST BAYSHORE ROAD
NEWELL ROAD TO EUCLID AVENUE

"RW3L" SOIL NAIL WALL – GENERAL PLAN

SCALE: AS SHOWN

VERIFY SCALES: 0 1"

BAR IS ONE INCH ON ORIGINAL DRAWING IF NOT ONE INCH ON THIS SHEET, ADJUST SCALES ACCORDINGLY

PROJECT NUMBER: 26284001

SHEET CODE: S–09

SHEET NUMBER: 32 OF 47

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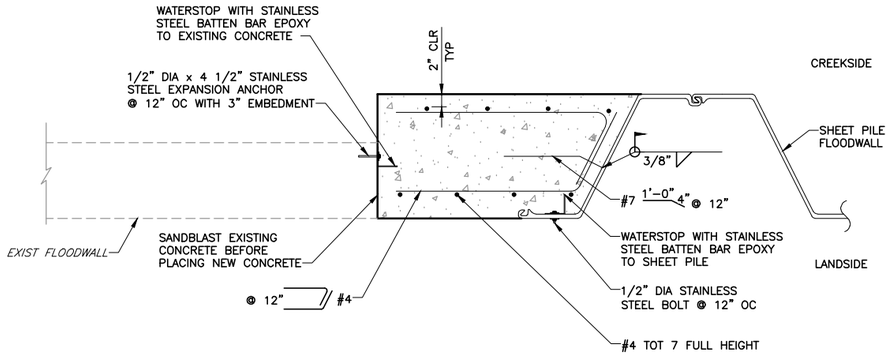
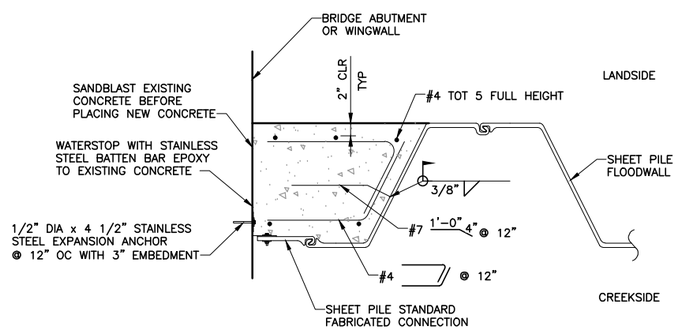


DETAIL 1 / C-01 END SHEET PILE FLOODWALL AT EXISTING CAST-IN-PLACE FLOODWALL

SCALE: NTS



DETAIL 2 / C-01 END SHEET PILE FLOODWALL AT CALTRANS BRIDGE

SCALE: 1" = 40'

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DOCUMENT NUMBER: XXXX-X-0000-0000000.00

REV	DESCRIPTION	DATE	APPR	REFERENCE INFORMATION AND NOTES
	95% PRELIMINARY 05-06-2020			

DATE MAR 2019
DESIGN L. Jones
DRAWN A. Bennett
CHECKED A. Nicholas

ENGINEERING CERTIFICATION

SANTA CLARA VALLEY WATER DISTRICT

Valley Water

PROJECT NAME AND SHEET DESCRIPTION:

SAN FRANCISQUITO CREEK
WEST BAYSHORE ROAD
NEWELL ROAD TO EUCLID AVENUE

DETAILS

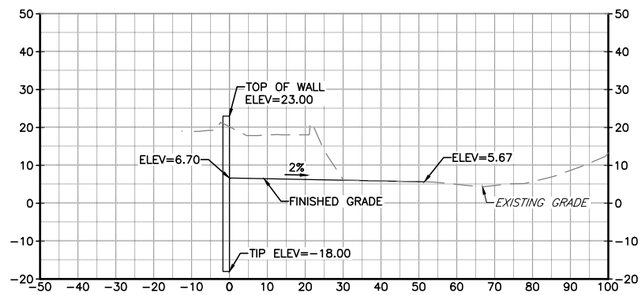
SCALE: AS SHOWN

VERIFY SCALES 0 1"
BAR IS ONE INCH ON ORIGINAL DRAWING IF NOT ONE INCH ON THIS SHEET, ADJUST SCALES ACCORDINGLY

PROJECT NUMBER: 26284001

SHEET CODE: S-21

SHEET NUMBER: 44 OF 47



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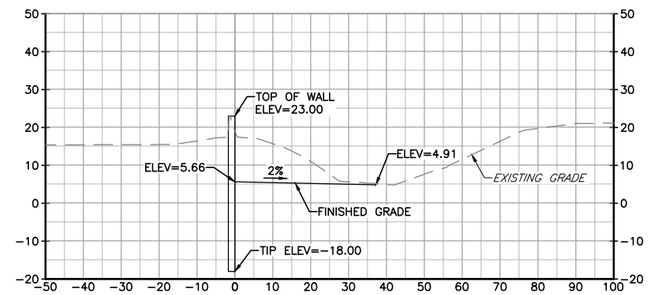

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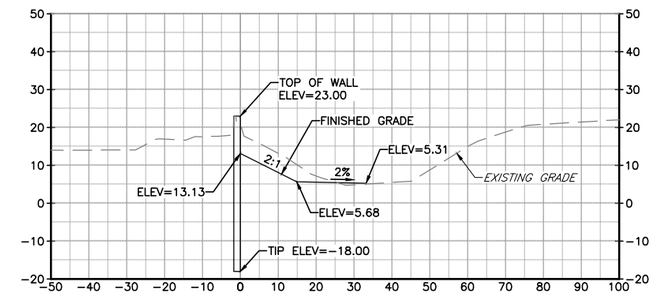

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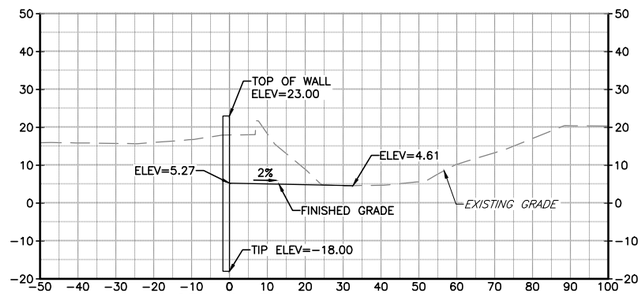

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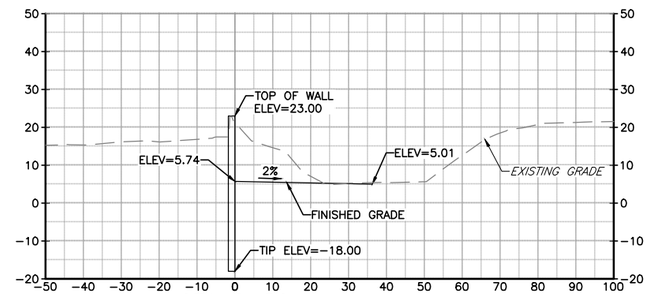

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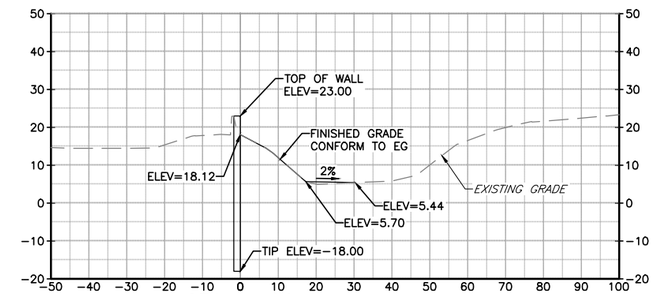

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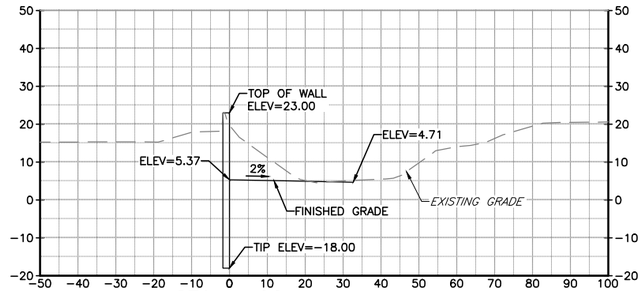

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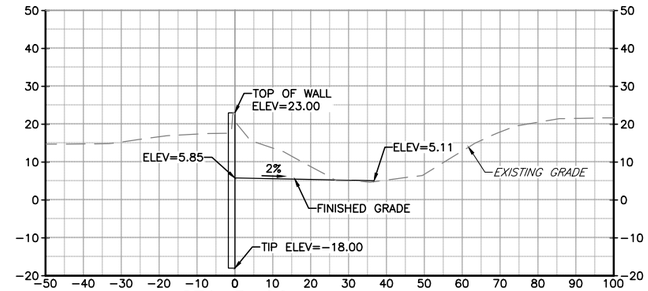

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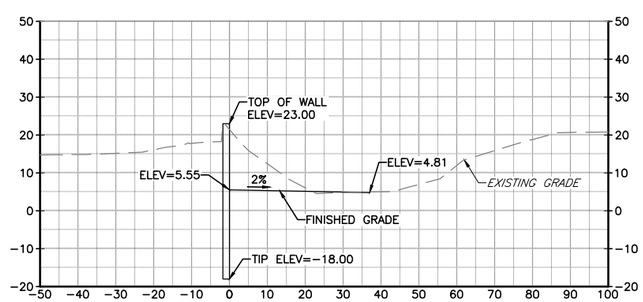

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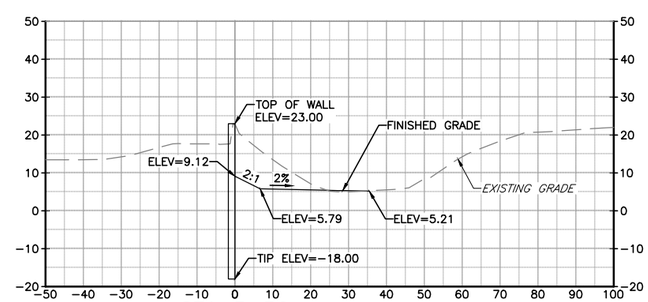

STA 3+50

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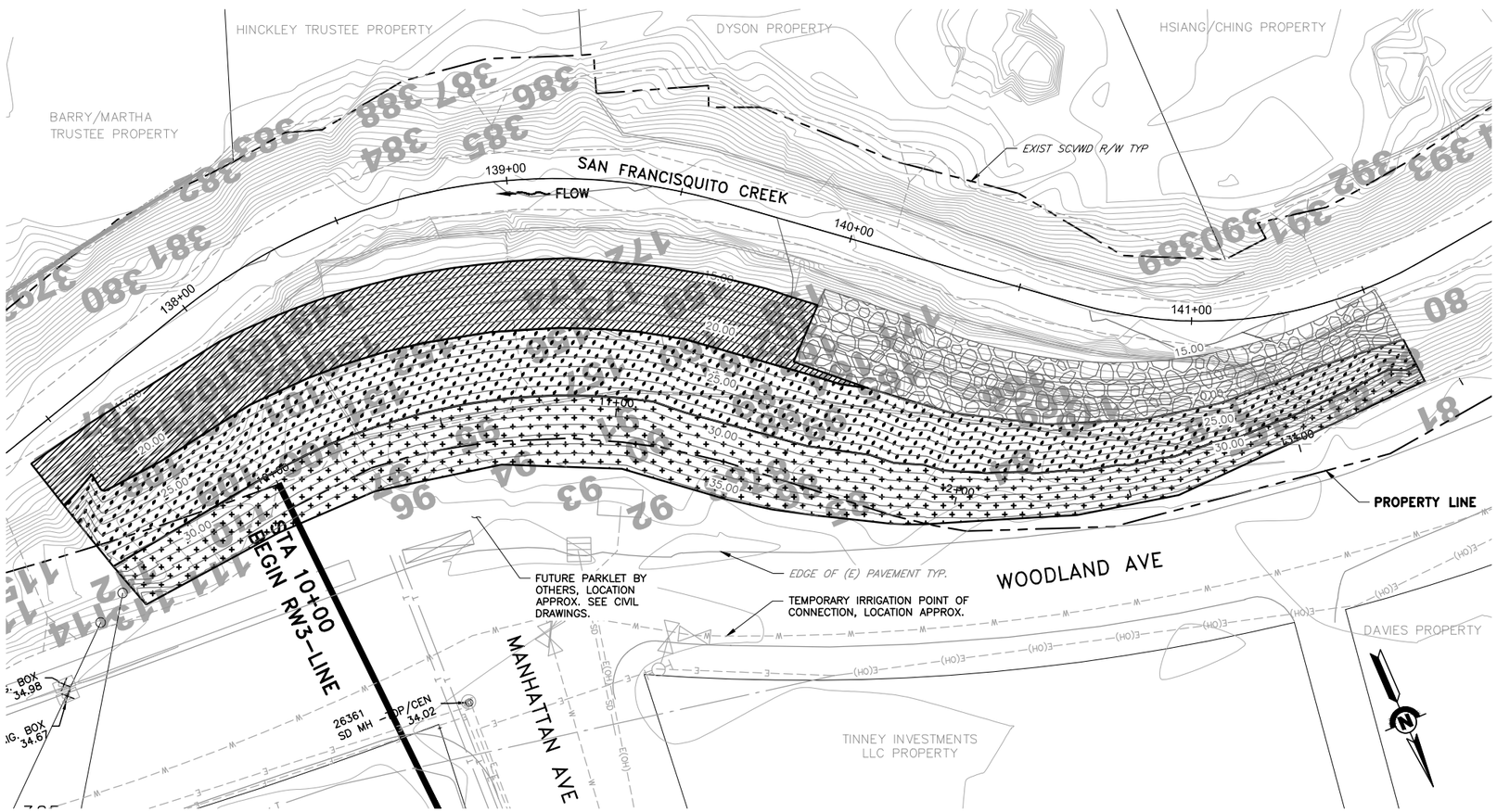
DOCUMENT NUMBER: XXXX-X-0000-0000000.00

REV	DESCRIPTION	DATE	APPR	REFERENCE INFORMATION AND NOTES	DATE OCT 2020	ENGINEERING CERTIFICATION	SANTA CLARA VALLEY WATER DISTRICT	PROJECT NAME AND SHEET DESCRIPTION:	SCALE AS SHOWN	PROJECT NUMBER 26284001
	60% PRELIMINARY				DESIGN L. Jones		Valley Water	SAN FRANCISQUITO CREEK WEST BAYSHORE ROAD NEWELL ROAD TO EUCLID AVENUE	VERIFY SCALES 0 1" BAR IS ONE INCH ON ORIGINAL DRAWING IF NOT ONE INCH ON THIS SHEET, ADJUST SCALES ACCORDINGLY	SHEET CODE: X-06
					DRAWN A. Bennett			CROSS-SECTIONS		SHEET NUMBER: 16 OF 47
					CHECKED W. Jacobs					



PLAN
SCALE 1" = 20'

LEGEND

HATCH	DESCRIPTION
	WILLOW STAKES IN SONOTUBES IN ROCK TOE. SEE CIVIL DRAWINGS FOR ROCK TOE EXTENTS. SEE DETAILS FOR WILLOW IN ROCK TOE INSTALLATION.
	LOW BANK PLANTING/SEED AREA" UP TO ELEVATION 22.0'
	MID-BANK PLANTING/SEED AREA: ELEVATION 22.0' TO 29'
	UPPER BANK PLANTING/SEED AREA: ELEVATION 29' AND GREATER
392	EXISTING TREE, LOCATION APPROX. SEE ARBORIST REPORT FOR TREE INFORMATION.
	EXISTING CONTOUR
	PROPOSED CONTOUR – SEE CIVIL PLANS

SITE PREPATATION NOTES:

1. PRESERVE AND PROTECT ALL TRASH RECEPTACLES AND ELECTRICAL BOXES UNLESS OTHERWISE STATED IN THE DRAWINGS OR DIRECTED BY THE SFCJPA'S REPRESENTATIVE.

TREE PROTECTION AND REMOVAL NOTES:

1. (E) TREE LOCATIONS APPROXIMATE. VERIFY (E) TREE LOCATIONS IN THE FIELD PRIOR TO COMMENCING WORK.
2. MEET WITH THE PROJECT ARBORIST BEFORE BEGINNING WORK TO REVIEW ALL WORK PROCEDURES, ACCESS ROUTES, STORAGE AREAS, AND TREE PROTECTION MEASURES.
3. REMOVE ALL TREES, TREE STUMPS, AND OTHER (E) PLANT MATERIAL WITHIN THE R3 PARCEL'S GRADING LIMITS. SEE CIVIL PLANS FOR PROPOSED GRADING ELEVATIONS AND FOOTPRINT.
4. DO NOT REMOVE (E) TREES UNTIL THE SFCJPA'S REPRESENTATIVE HAS SPRAY-PAINTED A RED "X" ON EXISTING-TREES-TO-BE-REMOVED WITHIN AND OUTSIDE OF GRADING LIMITS. PROTECT ALL (E) TREES OUTSIDE THE PROJECT GRADING FOOTPRINT NOT FLAGGED FOR REMOVAL.
5. TREE PRUNING MUST BE PERFORMED BY A CERTIFIED ARBORIST.
6. CONSULT THE PROJECT ARBORIST TO EVALUATE EFFECTS ON THE HEALTH AND STAFBILITY OF ANY TREES WHERE ROOTS 2 INCHES AND GREATER IN DIAMETER AREA ARE ENCOUNTERED.
7. DO NOT STORE OR DUMP EXCESS SOIL, CHEMICALS, DEBRIS, EQUIPMENT, VEHICLES, OR OTHER MATERIALS WITHIN THE DRIPLINE OF (E) TREES-TO-BE-PRESERVED.
8. INSTALL TREE PROTECTION FENCING PER THE DETAILS AND SPECS.
9. MAINTAIN TREE PROTECTION FENCING IN PLACE FOR THE DURATION OF CONSTRUCTION.

WEED MANAGEMENT AND SOIL PREPARATION NOTES:

1. CLEAR AND GRUB ALL IVY, THISTLE, SILVER LACE VINE/BUKHARA FLEECEFLOWER, PERIWINKLE, JAPANESE PRIVET, HIMALAYAN BLACKBERRY, AND OTHER INVASIVE PLANT MATERIAL WITHIN THE PROJECT LIMITS FOR THE R3 PARCEL, THE R3 PARKLET, AND THE RELLER PARCEL, INCLUDING IVY GROWING INTO TREE CANOPIES.
2. REMOVE ALL DEBRIS AND TRASH AND DISPOSE OF IT IN A LEGAL MANNER.
3. SMOOTH OUT SURFACE IRREGULARITIES PRIOR TO PLANTING.

PLANTING AND SEED NOTES:

1. ALL PLANTING AND SEED AREAS SHOWN ARE APPROXIMATE. SEE FORTHCOMING CIVIL PLANS FOR PROPOSED GRADING ELEVATIONS AND FOOTPRINT. ADJUST PLANTING AREAS ACCORDINGLY.
2. ALL DISTURBED AREAS USED FOR ACCESS AND STAGING SHALL BE SEEDED AND PROTECTED FROM EROSION, AS APPROPRIATE.
3. FIELD FIT NEW TREE LOCATIONS.
4. SEE SHEETS L-03 AND L-04 FOR LANDSCAPE DETAILS AND PLANT AND SEED SCHEDULES.

REV	DESCRIPTION	DATE	APPR
	60% CDs 09-03-2020 NOT FOR CONSTRUCTION		

REFERENCE INFORMATION AND NOTES
1. CONTRACTOR TO VERIFY LOCATION OF ALL PROPERTY LINES AND TREES IN CONSTRUCTION AREA PRIOR TO ANY WORK.

DATE 09/03/20
DESIGN I. SWANSON
DRAWN I. SWANSON
CHECKED E PIER KIELI

ENGINEERING CERTIFICATION
PROJECT ENGINEER DATE

SANTA CLARA VALLEY WATER DISTRICT
Valley Water

PROJECT NAME AND SHEET DESCRIPTION:
SAN FRANCISQUITO CREEK
WEST BAYSHORE ROAD
NEWELL ROAD TO EUCLID AVENUE
LANDSCAPE NOTES AND
R3 PARCEL LANDSCAPE PLAN

SCALE AS SHOWN
VERIFY SCALES 0 1"
BAR IS ONE INCH ON ORIGINAL DRAWING IF NOT ONE INCH ON THIS SHEET, ADJUST SCALES ACCORDINGLY

PROJECT NUMBER 26284001
SHEET CODE: L-01
SHEET NUMBER: 49 OF 47

DOCUMENT NUMBER: XXXX-XXX-XXX

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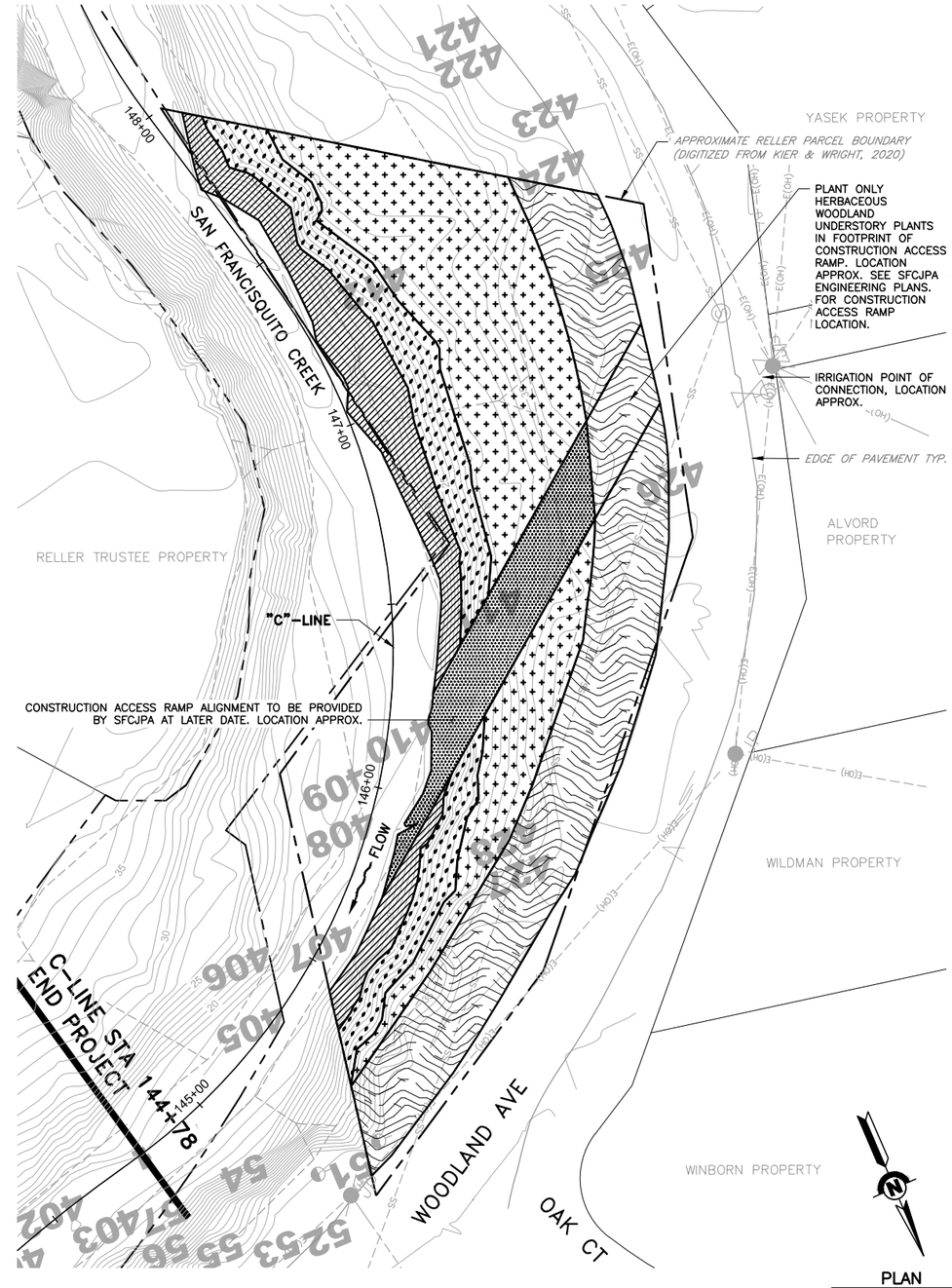
FILENAME: \\Sfo-file01\projects\SFO\2020xxxx\D202000175.00 - SanFrancisquitoCk_Ph2\08 CAD\DWG\L-01.dwg

LEGEND

HATCH	DESCRIPTION
	CONSTRUCTION ACCESS RAMP PLANTINGS, LOCATION APPROX. SEE RELLER PARCEL PLANTING AND SEED NOTES.
	LOW BANK PLANTING/SEED AREA: ELEVATION 17.0' TO 23.0'
	MID-BANK PLANTING/SEED AREA: ELEVATION 23.0' TO 30'
	UPPER BANK PLANTING/SEED AREA: ELEVATION 30' AND GREATER
	OAK WOODLAND UNDERSTORY PLANTING/SEED AREA
392	EXISTING TREE, LOCATION APPROX. SEE ARBORIST REPORT FOR TREE INFORMATION.
	EXISTING CONTOUR

RELLER PARCEL PLANTING AND SEED NOTES:

1. PRESERVE AND PROTECT ALL (E) NATIVE TREES ALONG WOODLAND AVENUE NOT SHOWN OR LISTED ON THESE PLANS OR IN THE THE ARBORIST REPORT.
2. PROTECT (E) COTTONWOOD, ELDERBERRY, CALIFORNIA BUCKEYE, CALIFORNIA BAY, AND NATIVE WILLOW TREES AND SAPLINGS UNLESS OTHERWISE DIRECTED BY THE SFCJPA'S REPRESENTATIVE.
3. CONSTRUCTION ACCESS RAMP ALIGNMENT TO BE PROVIDED BY SFCJPA AT A LATER DATE, LOCATION APPROXIMATE. SEE SFCJPA ENGINEERING PLANS FOR CONSTRUCTION ACCESS ROUTE LOCATION, GRADING, AND DETAILS.
4. INSTALL COIR WEED MAT IN ALL RELLER PARCEL PLANTING/SEED LOCATIONS, WORKING AROUND (E) TREES AND NATIVE SHRUBS TO BE PRESERVED. INSTALL COIR WEED MAT FOLLOWING THE COMPLETION OF GRADING FOR THE CONSTRUCTION ACCESS RAMP. SEE SFCJPA ENGINEERING PLANS FOR THE CONSTRUCTION ACCESS RAMP. SEE SHEET L-03 FOR COIR WEED MAT INSTALLATION DETAILS.
   4.1. COIR WEED MAT SHALL BE ROLANKA BIO-D WEEKDMAT 1 METER X 10 METER ROLL OR COIR AMERICA COCO WEED CONTROL MAT, OR APPROVED EQUAL.
5. AFTER INSTALLING COIR WEED MAT, WAIT 2 MONTHS MINIMUM BEFORE APPLYING 1/2" WEED-FREE TOPSOIL TO THE TOP OF THE COIR WEED MAT, AND STAMP IN TOPSOIL. IMMEDIATELY THEREAFTER, HYDROSEEDING THE RELLER PARCEL.
6. AFTER HYDROSEEDING, INSTALL THE IRRIGATION SYSTEM AND THEN PLANT THE RELLER PARCEL. CUT A SMALL "X" OR POKE A HOLE IN THE COIR WEED MAT TO INSTALL PLUGS AND CONTAINER PLANTS.
7. FIELD FIT WOODLAND UNDERSTORY PLANTS UNDER (E) TREE DRIP LINES WITHOUT DAMAGING (E) TREE ROOTS. OAK WOODLAND UNDERSTORY PLANTINGS SHALL BE INSTALLED MINIMUM 5 FEET AWAY FROM (E) TREE TRUNKS.
8. OAK WOODLAND UNDERSTORY PLANTING AREA IS APPROXIMATE. FIELD FIT OAK WOODLAND UNDERSTORY PLANTS UNDER DRIPLINE OF EXISTING-TREES-TO-REMAIN IN THE APPROXIMATE AREA OF THE OAK WOODLAND PLANTING AREA SHOWN ON THE PLAN. LAYOUT TO BE APPROVED BY SFCJPA'S REPRESENTATIVE PRIOR TO COMMENCEMENT OF PLANT INSTALLATION.
9. MARK ANY PORTIONS OF (E) ORNAMENTAL WROUGHT IRON FENCE WITHIN THE RELLER PARCEL PROPERTY BOUNDARY WITH BRIGHTLY-COLORED FLAGGING TAPE AND BRING TO THE IMMEDIATE ATTENTION OF THE SFCJPA'S REPRESENTATIVE. DEMO (E) ORNAMENTAL WROUGHT IRON FENCING WITHIN RELLER PARCEL BOUNDARY IF DIRECTED BY THE SFCJPA'S REPRESENTATIVE.
10. SEE SHEET L-01 FOR ADDITIONAL PLANTING AND SEED NOTES.



PLAN
SCALE 1" = 20'

REV	DESCRIPTION	DATE	APPR
	60% CDs 09-03-2020 NOT FOR CONSTRUCTION		

REFERENCE INFORMATION AND NOTES
1. CONTRACTOR TO VERIFY LOCATION OF ALL TREES IN CONSTRUCTION AREA PRIOR TO ANY WORK.

DATE 09/03/20
DESIGN I. SWANSON
DRAWN I. SWANSON
CHECKED E PIER KIELI

ENGINEERING CERTIFICATION
PROJECT ENGINEER DATE

SANTA CLARA VALLEY WATER DISTRICT
Valley Water

PROJECT NAME AND SHEET DESCRIPTION:
SAN FRANCISQUITO CREEK
WEST BAYSHORE ROAD
NEWELL ROAD TO EUCLID AVENUE
LANDSCAPE PLAN
RELLER PARCEL

SCALE AS SHOWN
VERIFY SCALES 0 1"
BAR IS ONE INCH ON ORIGINAL DRAWING IF NOT ONE INCH ON THIS SHEET, ADJUST SCALES ACCORDINGLY

PROJECT NUMBER 26284001
SHEET CODE: L-02
SHEET NUMBER: 50 OF 47

USERNAME: lSwanson 9/3/2020 4:28 PM
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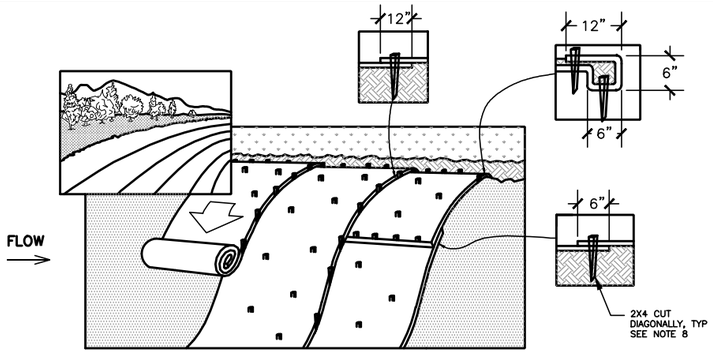
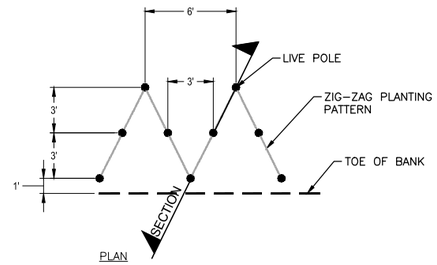
DOCUMENT NUMBER: XXXX-XXX-XXX



1. SMOOTH SOIL SURFACE AS NECESSARY, THOROUGHLY SOAK THE AREA TO BE COVERED IN WEED MAT, AND THEN TRAMPLE THE NON-NATIVE GRASSES/VEGETATION BEFORE INSTALLING COIR WEED MAT.
2. BEGIN AT THE DOWNSTREAM TOP OF THE SLOPE BY ANCHORING THE WEED MAT IN A 6" DEEP X 6" WIDE TRENCH WITH APPROXIMATELY 12" OF WEED MAT EXTENDED BEYOND THE UP-SLOPE PORTION OF THE TRENCH. ANCHOR THE WEED MAT WITH A ROW OF WOOD STAKES APPROXIMATELY 12" APART IN THE BOTTOM OF THE TRENCH. BACKFILL AND COMPACT THE TRENCH AFTER STAKING. FOLD REMAINING 12" PORTION OF WEED MAT BACK OVER COMPACTED SOIL. SECURE WEED MAT OVER COMPACTED SOIL WITH A ROW OF STAKES SPACED APPROXIMATELY 12" APART ACROSS THE WIDTH OF THE WEED MAT.
3. ROLL THE WEED MAT DOWN THE SLOPE. WEED MAT WILL UNROLL WITH APPROPRIATE SIDE AGAINST THE SOIL SURFACE. ALL WEED MAT MUST BE SECURELY FASTENED TO SOIL SURFACE BY PLACING STAKES A MINIMUM OF 3' ON CENTER IN A GRID PATTERN AS SHOWN.
4. THE EDGES OF PARALLEL WEED MAT PIECES MUST BE STAKED WITH MINIMUM 1' OVERLAP. STAKE THROUGH OVERLAPPED AREA, APPROXIMATELY 12" APART ACROSS ENTIRE WEED MAT LENGTH.
5. CONSECUTIVE WEED MAT PIECES SPLICED DOWN THE SLOPE MUST BE PLACED END OVER END (SHINGLE STYLE) WITH MINIMUM 1' OVERLAP. STAKE THROUGH OVERLAPPED AREA, APPROXIMATELY 12" APART ACROSS ENTIRE WEED MAT WIDTH.
6. AT THE BOTTOM OF THE SLOPE ANCHOR THE WEED MAT IN A 6" DEEP X 6" WIDE TRENCH WITH APPROXIMATELY 12" OF WEED MAT EXTENDED BEYOND THE DOWN-SLOPE PORTION OF THE TRENCH. ANCHOR THE WEED MAT WITH A ROW OF WOOD STAKES APPROXIMATELY 12" APART IN THE BOTTOM OF THE TRENCH. AFTER PLACING STAKES, BACKFILL AND COMPACT THE TRENCH. SECURE WEED MAT OVER COMPACTED SOIL WITH A ROW OF STAKES SPACED APPROXIMATELY 12" APART ACROSS THE WIDTH OF THE WEED MAT.
7. ALL STAKES TO BE 12" LONG 2X4 CUT DIAGONALLY OR APPROVED EQUIVALENT.

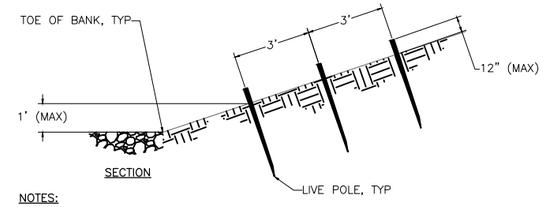
DETAIL 7 – COIR WEED MAT (RELLER PARCEL)

SCALE: NTS



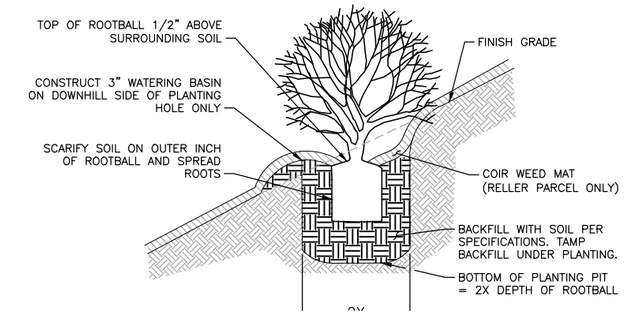
DETAIL 4 – POLE CUTTING IN ROCK TOE

SCALE: NTS



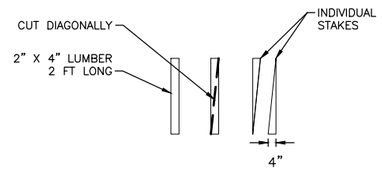
NOTES:

1. POLE SHALL BE MINIMUM 1/2" DIA. TOP, 1" DIA. BOTTOM TAPERED POLE CUTTING, 4' – 5' LENGTH.
2. TRIM OFF BRANCHES WITH CLEAN CUTS.
3. CUT BOTTOM END OF POLE TO A POINT.
4. ENSURE BUDS ARE FACING UPWARDS WHEN INSTALLING.
5. INSTALL SUCH THAT ONE THIRD OF INSTALLED POLE IS ABOVE GROUND.
6. TAMP SOIL PERIODICALLY DURING PLANT INSTALLATION TO REMOVE AIR GAPS.



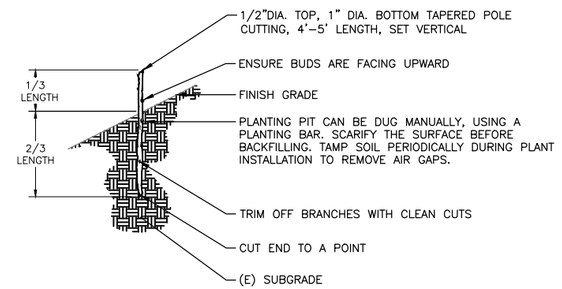
DETAIL 1 – CONTAINER PLANTING

SCALE: NTS



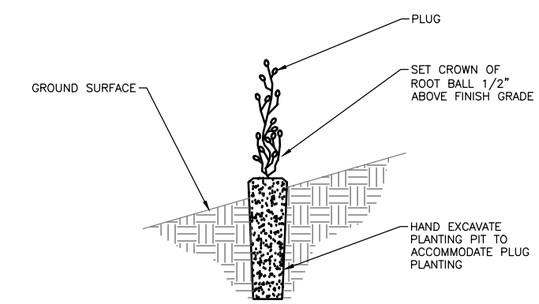
DETAIL 6 – WOODEN STAKE

SCALE: NTS



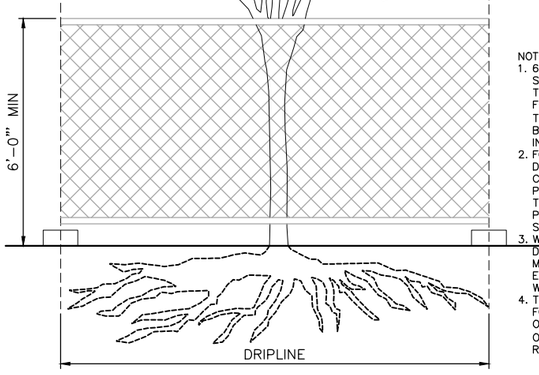
DETAIL 5 – POLE CUTTING IN EARTHEN BANK

SCALE: NTS



DETAIL 2 – PLUG PLANTING

SCALE: NTS

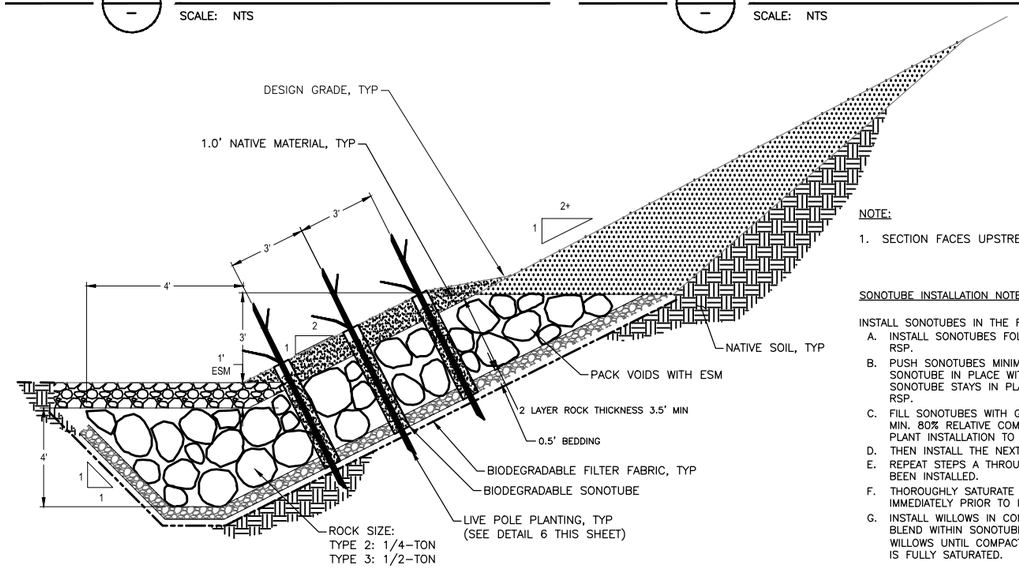


NOTES:

1. 6-FT HIGH TEMPORARY CHAIN LINK FENCE SHALL BE PLACED AT THE DRIPLINE OF EACH TREE OR GROUP OF TREES TO BE PRESERVED. FENCE SHALL COMPLETELY ENCIRCLE THE TREE(S). INSTALL FENCE POSTS USING PIER BLOCKS ONLY. AVOID DRIVING POSTS OR STAKES INTO MAJOR ROOTS.
2. FOR ROOTS OVER 1-INCH DIAMETER THAT ARE DAMAGED DURING CONSTRUCTION, MAKE A CLEAN, STRAIGHT CUT TO REMOVE THE DAMAGED PORTION. ALL EXPOSED ROOTS SHALL BE TEMPORARILY COVERED WITH DAMP BURLAP TO PREVENT DRYING AND SHALL BE COVERED WITH SOIL AS SOON AS POSSIBLE.
3. WORK WITHIN PROTECTION FENCE SHALL BE DONE MANUALLY. NO STOCKPILING OF MATERIALS, VEHICULAR TRAFFIC, OR STORAGE OF EQUIPMENT OR MACHINERY SHALL BE ALLOWED WITHIN THE LIMIT OF THE FENCING.
4. TREE PROTECTION FENCING IS NOT REQUIRED FOR PLANTING OR IRRIGATION CONSTRUCTION OPERATIONS ON THE RELLER PARCEL UNLESS OTHERWISE DIRECTED BY THE SFCJPA'S REPRESENTATIVE.

DETAIL 8 – TREE PROTECTION FENCING

SCALE: NTS



NOTE:

1. SECTION FACES UPSTREAM.

SONOTUBE INSTALLATION NOTES:

INSTALL SONOTUBES IN THE FOLLOWING SEQUENCE:

A. INSTALL SONOTUBES FOLLOWING PLACEMENT OF LOWEST ELEVATION RSP.
B. PUSH SONOTUBES MINIMUM 4 INCHES INTO (E) BANK. HOLD SONOTUBE IN PLACE WITH REBAR OR CONSTRUCTION STAKE SO SONOTUBE STAYS IN PLACE DURING THE SUBSEQUENT PLACEMENT OF RSP.
C. FILL SONOTUBES WITH GRANULAR BACKFILL/NATIVE SOIL BLEND AT MIN. 80% RELATIVE COMPACTION. TAMP SOIL PERIODICALLY DURING PLANT INSTALLATION TO REMOVE AIR GAPS.
D. THEN INSTALL THE NEXT LOWEST ELEVATION BAND OF RSP.
E. REPEAT STEPS A THROUGH D UNTIL ALL SONOTUBES AND RSP HAVE BEEN INSTALLED.
F. THOROUGHLY SATURATE GRANULAR BACKFILL/NATIVE SOIL BLEND IMMEDIATELY PRIOR TO INSTALLING WILLOWS.
G. INSTALL WILLOWS IN COMPACTED GRANULAR BACKFILL/NATIVE SOIL BLEND WITHIN SONOTUBE FOLLOWING RSP INSTALLATION. WATER WILLOWS UNTIL COMPACTED GRANULAR BACKFILL/NATIVE SOIL BLEND IS FULLY SATURATED.

DETAIL 3 – ROCK TOE (R3 PARCEL)

SCALE: 1" = 3' – 0"

REV	DESCRIPTION	DATE	APPR	REFERENCE INFORMATION AND NOTES
	60% CDs 09-03-2020 NOT FOR CONSTRUCTION			

DATE 09/03/20
DESIGN I. SWANSON
DRAWN I. SWANSON
CHECKED E PIER KIELI

ENGINEERING CERTIFICATION
PROJECT ENGINEER DATE

SANTA CLARA VALLEY WATER DISTRICT
Valley Water

PROJECT NAME AND SHEET DESCRIPTION:
SAN FRANCISQUITO CREEK
WEST BAYSHORE ROAD
NEWELL ROAD TO EUCLID AVENUE
LANDSCAPE DETAILS

SCALE: AS SHOWN
VERIFY SCALES: 0 1"
BAR IS ONE INCH ON ORIGINAL DRAWING IF NOT ONE INCH ON THIS SHEET, ADJUST SCALES ACCORDINGLY

PROJECT NUMBER: 26284001
SHEET CODE: L-03
SHEET NUMBER: 51 OF 47

DOCUMENT NUMBER: XXXX-XXX-XXX

USERNAME: lSwanson 9/3/2020 4:29 PM
FILENAME: \\Sfo-file01\projects\SFO\2020xxxx\D202000175.00 – SanFrancisquitoCk_Ph2\08 CAD\DWG\L-03.dwg

	Low Bank				0.14	acres
	Botanical Name	Common Name	Container	Spacing	Quantity	Notes
Trees	*Fraxinus latifolia*	Oregon ash	treepot 4	15 FT OC	4	plant near top of low bank
	Populus fremontii	Fremont cottonwood	treepot 4	25 FT OC	8	
	Salix laevigata	red willow	live pole	8 FT OC	11	groups of 2-3 near bottom of low bank
	Salix lasiolepis	arroyo willow	live pole	12 FT OC	9	groups of 2 near bottom of low bank
				Total	**32**	
Shrubs	*Rubus ursinus*	California blackberry	deepot 40	6 FT OC	6	groups of 3 near top of low bank
				Total	**6**	
Herbaceous	*Artemisia douglasiana*	California mugwort	plug	3 FT OC	225	groups of 5-7
	Carex densa	dense sedge	plug	2 FT OC	500	groups of 9-11
	Juncus patens	common rush	plug	2 FT OC	500	groups of 9-11
				Total	**1,225**	

	Rock Toe (R3 Parcel)				0.07	acres
	Botanical Name	Common Name	Type	Spacing	Quantity	Notes
Trees	*Salix lasiolepis*	arroyo willow	live pole	3 FT OC	250	use cuttings from nearby arroyo willow
				Total	**250**	

	Construction Access Ramp (Reller Parcel)				0.03	acres
	Botanical Name	Common Name	Type	Spacing	Quantity	Notes
Herbaceous	*Achillea millefolium*	common yarrow	plug	2 FT OC	100	groups of 5-7
	Artemisia douglasiana	California mugwort	plug	3 FT OC	40	groups of 3-5
	Carex barbarae	Santa Barbara sedge	plug	2 FT OC	100	groups of 7-9
	Elymus triticoides	creeping wild rye	plug	2 FT OC	100	groups of 7-9
				Total	**340**	

Seed Mix		
Botanical Name	Common Name	PLS lbs/ac
Achillea millefolium	common yarrow	1
Artemisia douglasiana	California mugwort	2
Bromus carinatus	California brome	10
Danthonia californica	California oatgrass	2
Elymus triticoides	creeping wildrye	10
Eschscholzia californica	California poppy	1
Festuca idahoensis	Idaho fescue	4
Festuca microstachys	small fescue	3
Festuca rubra	red fescue	4
Hordeum brachyantherum	meadow barley	5
Lupinus nanus	sky lupine	2
Trifolium wildenovii	tomcat clover	2
	Total	**46**

	Oak Woodland Understory (Reller Parcel)				0.13	acres
	Botanical Name	Common Name	Container	Spacing	Quantity	Notes
Shrubs	*Frangula californica*	coffeeberry	deepot 40	8 FT OC	6	groups of 2-3 near Woodland Ave.
				Total	**6**	
Herbaceous	*Carex tumulicola*	foothill sedge	deepot 16	1.5 FT OC	221	groups of 3-7
	Festuca californica	California fescue	plug	2 FT OC	111	groups of 3-5
	Iris douglasiana	douglas iris	deepot 16	3 FT OC	111	groups of 5-7
	Marah fabaceae	California man root	deepot 16	5 FT OC	11	plant near existing trees
	Salvia spathacea	hummingbird sage	deepot 16	3 FT OC	38	groups of 7-9
	Schrophularia californica	California figwort	deepot 16	3 FT OC	32	groups of 3-5
	Symphyotrichum chilense	Pacific aster	deepot 16	1.5 FT OC	130	groups of 3-5 near Woodland Ave
				Total	**654**	

	Upper Bank				0.29	acres
	Botanical Name	Common Name	Container	Spacing	Quantity	Notes
Trees	*Aesculus californica*	California buckeye	treepot 4	18 FT OC	10	
	Juglans hindsii	California black walnut	5-gal	20 FT OC	2	
	Quercus agrifolia	Coast live oak	treepot 4	22 FT OC	17	
				Total	**29**	
Shrubs	*Heteromeles arbutifolia*	toyon	deepot 40	15 FT OC	2	
	Rosa californica	California wild rose	deepot 40	5 FT OC	10	groups of 2-3
	Sambucus nigra ssp. caerulea	blue elderberry	deepot 40	13 FT OC	4	
				Total	**16**	
Herbaceous	*Clematis lasiantha*	pipestem clematis	deepot 16	15 FT OC	9	plant near existing trees
	Elymus triticoides	creeping wild rye	plug	2 FT OC	1,305	groups of 9-11
	Epilobium canum	California fuchsia	deepot 16	3 FT OC	232	groups of 3-5
	Iris douglasiana	douglas iris	deepot 16	3 FT OC	412	groups of 5-7
	Marah fabaceae	California man root	deepot 16	5 FT OC	29	plant near existing trees
	Salvia spathacea	hummingbird sage	deepot 16	3 FT OC	122	groups of 7-9
	Schrophularia californica	California figwort	deepot 16	3 FT OC	93	groups of 3-5
				Total	**2,193**	

	Mid Bank				0.21	acres
	Botanical Name	Common Name	Container	Spacing	Quantity	Notes
Trees	*Acer macrophyllum*	big leaf maple	treepot 4	25 FT OC	4	
	Acer negundo	California box elder	treepot 4	16 FT OC	2	
	Aesculus californica	California buckeye	treepot 4	18 FT OC	8	plant near top of mid bank
	Fraxinus latifolia	Oregon ash	treepot 4	15 FT OC	4	plant near bottom of mid bank
	Populus fremontii	Fremont cottonwood	treepot 4	25 FT OC	7	plant near bottom of mid bank
				Total	**25**	
Shrubs	*Cornus glabrata*	brown dogwood	deepot 40	6 FT OC	5	groups of 2-3 near bottom of mid bank
	Ribes sanguineum	red flowering currant	deepot 40	5 FT OC	6	groups of 2
	Rosa californica	California wild rose	deepot 40	5 FT OC	5	groups of 2-3 near top of mid bank
	Rubus ursinus	California blackberry	deepot 40	6 FT OC	5	groups of 2-3
				Total	**21**	
Herbaceous	*Artemisia douglasiana*	California mugwort	plug	3 FT OC	231	groups of 3-5
	Carex barbarae	Santa Barbara sedge	plug	2 FT OC	504	groups of 5-7 near bottom of mid bank
	Elymus triticoides	creeping wild rye	plug	2 FT OC	630	groups of 9-11
	Iris douglasiana	douglas iris	deepot 16	3 FT OC	252	groups of 5-7
	Schrophularia californica	California figwort	deepot 16	3 FT OC	210	groups of 3-5 near bottom of mid bank
				Total	**1,827**	

REV	DESCRIPTION	DATE	APPR	REFERENCE INFORMATION AND NOTES
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DATE 09/03/20
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DRAWN I. SWANSON
CHECKED E PIER KIELI

ENGINEERING CERTIFICATION
PROJECT ENGINEER DATE

SANTA CLARA VALLEY WATER DISTRICT
Valley Water

PROJECT NAME AND SHEET DESCRIPTION:
SAN FRANCISQUITO CREEK
WEST BAYSHORE ROAD
NEWELL ROAD TO EUCLID AVENUE
PLANTING AND SEED SCHEDULES

SCALE: AS SHOWN
VERIFY SCALES: 0 1"
BAR IS ONE INCH ON ORIGINAL DRAWING IF NOT ONE INCH ON THIS SHEET, ADJUST SCALES ACCORDINGLY

PROJECT NUMBER: 26284001
SHEET CODE: L-04
SHEET NUMBER: 52 OF 47

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DOCUMENT NUMBER: XXXX-XXX-XXX

San Francisquito Creek May 2020

R3 Parcel Existing Conditions as seen from the channel of San Francisquito Creek.

San Francisquito Creek

R3 Parcel with a newly-graded 3:1 slope approximately two years after construction, as seen from channel of San Francisquito Creek. All concrete walls and sandbags are removed.