

POTRERO GATEWAY STREETSCAPE IMPROVEMENTS SOURCING EVENT ID 0000004679



Public Works Infrastructure Design & Construction

City and County of San Francisco

London N. Breed, Mayor Alaric Degrafinried, Director

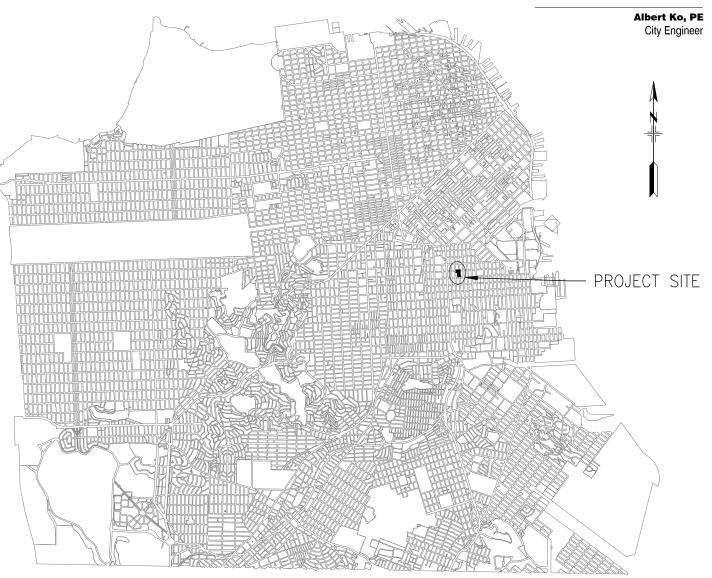


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REQUIREMENTS OF BIDDERS

IN ACCORDANCE WITH THE PROVISIONS OF THE CALIFORNIA PUBLIC CONTRACT CODE SECTION 3300, A BID SUBMITTED TO A PUBLIC AGENCY BY A CONTRACTOR WHO IS NOT LICENSED IN ACCORDANCE WITH CHAPTER 9 OF THE BUSINESS AND PROFESSIONS CODE SHALL BE CONSIDERED NON-RESPONSIVE AND SHALL BE REJECTED BY THE PUBLIC AGENCY.

AT THE TIME OF BID OPENING, THE CONTRACTOR SHALL POSSESS A VALID CLASS "A" CALIFORNIA GENERAL ENGINEERING CONTRACTOR'S LICENSE.



LOCATION MAP

REFE & FI	FERENCE INFORMATION FILE NO. OF SURVEYS	BUREAU OF ENGINEERING CITY'S COUNTY OF SAN FRANCISCO	Acting Section Mgr: ERIC KJESBERG Deputy Bureau Mgr:	DESIGNED: DATE: D.CALLEROS 11/20 DRAWN: DATE:	SCALE: NONE	POTRERO GATEWAY STREETSCAPE IMPROVEMENTS	CONTRACT NO. 000004679 DRAWING NO. G-0
NO. DATE DESCRIPTION BY APP. TABLE OF REVISIONS THIS DRAWING WAS LAST MODIFIED: 05/25/21 11:36, BY: callerod	115.007511	PUBLIC SAN FRANCISCO PUBLIC WORKS 49 SOUTH VAN NESS AVENUE, SUITE 800 SAN FRANCISCO, CA 94103	Acting Burgou Mar	D.CALLEROS 11/20 CHECKED: DATE:	SHEET OF SHEETS	COVER PAGE REQUIREMENT OF BIDDERS LOCATION MAP	FILE NO. XXX,XXX REV. NO.

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CHECK PRINT BUREAU OF ENGINEERING

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ı	Acting Section Mgr:	ERIC KJESBERG			
ı				DRAWN:	DATE:
ı	Deputy Bureau Mgr:	FERNANDO CISNEROS			
I	Acting Bureau Mgr:	IQBAL DHAPA		CHECKED:	DATE:
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SCALE: NONE	POTRERO GATEWAY STREETSCAPE IMPROVEMENTS	CONTRACT NO. 000004679 DRAWING NO. G-1
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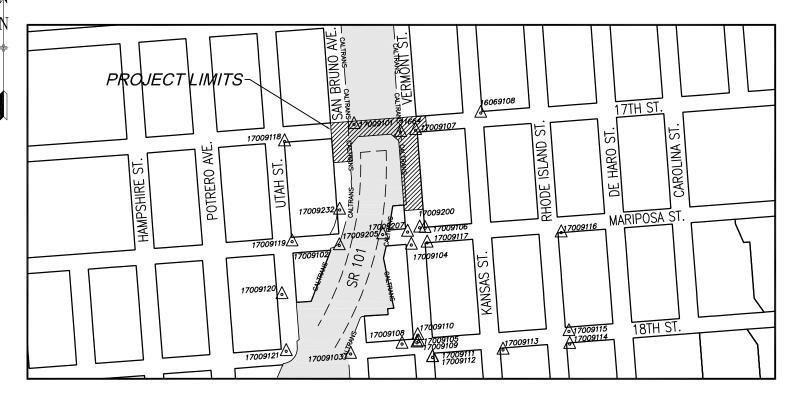
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Deputy Bureau Mgr:	FERNANDO CISNEROS		DIVAWIN.	DAIL.
Acting Bureau Mgr:	IQBAL DHAPA		CHECKED:	DATE:

SCALE: NONE	POTRERO GATEWAY STREETSCAPE IMPROVEMENTS	CONTRACT NO 0000004 DRAWING NO. G—
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VICINITY MAP & CONTROL POINT LOCATIONS SCALE: NTS

	SURVEY CONTROL POINTS TABLE					
POINT#	NORTHING	EASTING	ELEVATION	DESCRIPTION		
11664	84058.9330	170605.0430	55.808	FND CCSF SCREW & WASHER "CCSF CONTROL"		
16069108	84137.7110	170941.9390	<i>35.737</i>	FND Cut-X		
17009101	84090.1810	170398.9920	69.106	SET CUT X		
17009102	83585.6258	170337.6180	113.068	SET CUT X		
17009103	83133.4230	170384.9320	127.695	SET 90D NAIL		
17009104	83587.6840	170637.6060	109.578	SET CUT X		
17009105	83184.8970	170667.3930	149.674	SET CUT X		
17009106	83649.1820	170702.9840	109.570	SET CUT X		
17009107	84061.3030	170667.7800	53.176	FND BRASS PIN IN WELL		
17009108	83175.3418	170598.6645	142.876	FND MAG NAIL & TAG LS ILLEGIBLE		
17009109	83180.1396	170660.6784	149.771	FND MAG NAIL & TAG LS ILLEGIBLE		
17009110	83211.4920	170664.2671	147.184	FND MAG NAIL & TAG LS ILLEGIBLE		

SURVEY CONTROL POINTS TABLE				
POINT#	NORTHING	EASTING	ELEVATION	DESCRIPTION
17009111	83130.3546	170740.4887	148.565	FND MON IN WELL "DISTURBED"
17009112	83129.5069	170739.5823	149.632	SET CUT X
17009113	83150.5927	171019.5572	155.833	SET CUT X
17009114	83174.7493	171296.2553	131.232	SET CUT X
17009115	83227.5885	171293.8552	131.600	FND BRASS PIN IN MON WELL
17009116	83639.3192	171261.7038	64.158	FND BRASS PIN IN MON WELL
17009117	83596.6182	170703.2510	109.156	FND BRASS PIN IN MON WELL
17009118	84018.5670	170109.3417	75.832	FND BRASS PIN IN MON WELL
17009119	83601.5364	170140.9313	111.314	SET CUT X
17009120	83381.7008	170098.4954	109.957	SET CUT X
17009121	83144.7141	170116.5162	102.314	SET CUT X

BASIS OF SURVEY:

GEOMETRIC DATUM: NORTH AMERICAN DATUM OF 1983: NAD83 (2011) 2010.00 EPOCH

VERTICAL DATUM: "CCSF 2013 NAVD88 VERTICAL DATUM" (SF-VD13)

REFERENCE NETWORK: "CCSF 2013 HIGH PRECISION LEVELING NETWORK"

PROJECTION:

THE PLANE COORDINATES ARE BASED ON A LOCAL GRID COORDINATE SYSTEM KNOWN AS THE CITY & COUNTY OF SAN FRANCISCO 2013 COORDINATE SYSTEM (SF-CS13). THE SF-CS13 IS A LOW DISTORTION TRANSVERSE MERCATOR PROJECTION. WITHIN THE CITY, THE COMBINED GRID FACTOR IS GENERALLY LESS THAN 1/100,000. THE ORIGIN AND CENTRAL MERIDIAN LOCATED NEAR THE CENTER OF THE CITY. SEE RECORD OF SURVEY #8080 RECORDED IN BOOK EE OF SURVEY MAPS, PAGE 147-157, S.F.C.R. AND THE CCSF PW WEB SITE (htpp://sfpublicworks.org/ccsf-geodetic-network) for projection parameters.

HORIZONTAL & VERTICAL CONTROL:

THE HORIZONTAL DATUM WAS RECOVERED FROM A TRAVERSE THROUGH POINTS 11644 AND 16069108 (SHOWN HEREON) BASED UPON HPN OR HPND POINTS 129 AND 276 AND DESCRIBED ON THE CCSF PW WEBSITE (HTTP://SFPUBLICWORKS.ORG/CCSF-GEODETIC NETWORK). POINTS 11644 AND 16069108 USED IN THIS PROJECT WERE DERIVED FROM HPN OF HPND POINTS FROM PREVIOUS PROJECT 16-069, ENTITLED 16TH ST. MULTIMODAL PROJECT.

THE VERTICAL DATUM WAS RECOVERED BASED UPON BENCHMARKS 11664 (SHOWN HEREON AND DESCRIBED ON THE CCSF DPW WEBSITE (HTTP://SFPUBLICWORKS.ORG/CCSF-GEODETIC NETWORK) AND POINT 16069108 FROM PREVIOUS PROJECT 16-069, ENTITLED 16TH ST. MULTIMODAL PROJECT.

GENERAL NOTES:

(1) ALL DISTANCES WITHIN THE DRAWING ARE BASED UPON THE US SURVEY FOOT AND DECIMALS THEREOF AND ARE GROUND DISTANCES.

(2) SINCE A TITLE INSURANCE POLICY WAS NOT AVAILABLE AT THE TIME OF THIS SURVEY, THE SURVEYOR IS NOT RESPONSIBLE FOR THE OMISSION HEREON OF ANY FACTS SUCH AS, BUT NOT LIMITED TO, THE EXISTENCE OF EASEMENTS, WHICH ARE NORMALLY DISCLOSED BY SUCH POLICY.

(3) ABOVE GROUND EVIDENCE OF UTILITIES WAS FIELD LOCATED AND IS SHOWN ON THIS SHEET. SUBSURFACE UTILITY INFORMATION WAS NOT PROVIDED. VERIFICATION OF THIS INFORMATION SHOULD BE CONSIDERED MANDATORY IF TO BE USED FOR DESIGN PURPOSES.

(4) ALL CITY MONUMENTS SHOWN HEREON MUST BE PROTECTED PER STATE LAND SURVEYOR ACT AND CITY & COUNTY STANDARDS SPECIFICATIONS SECTION 107.09. PLEASE CALL SURVEYS AT (415) 554-5827 TO REPORT ANY MONUMENTS IN DANGER OF DESTRUCTION OR REMOVAL.

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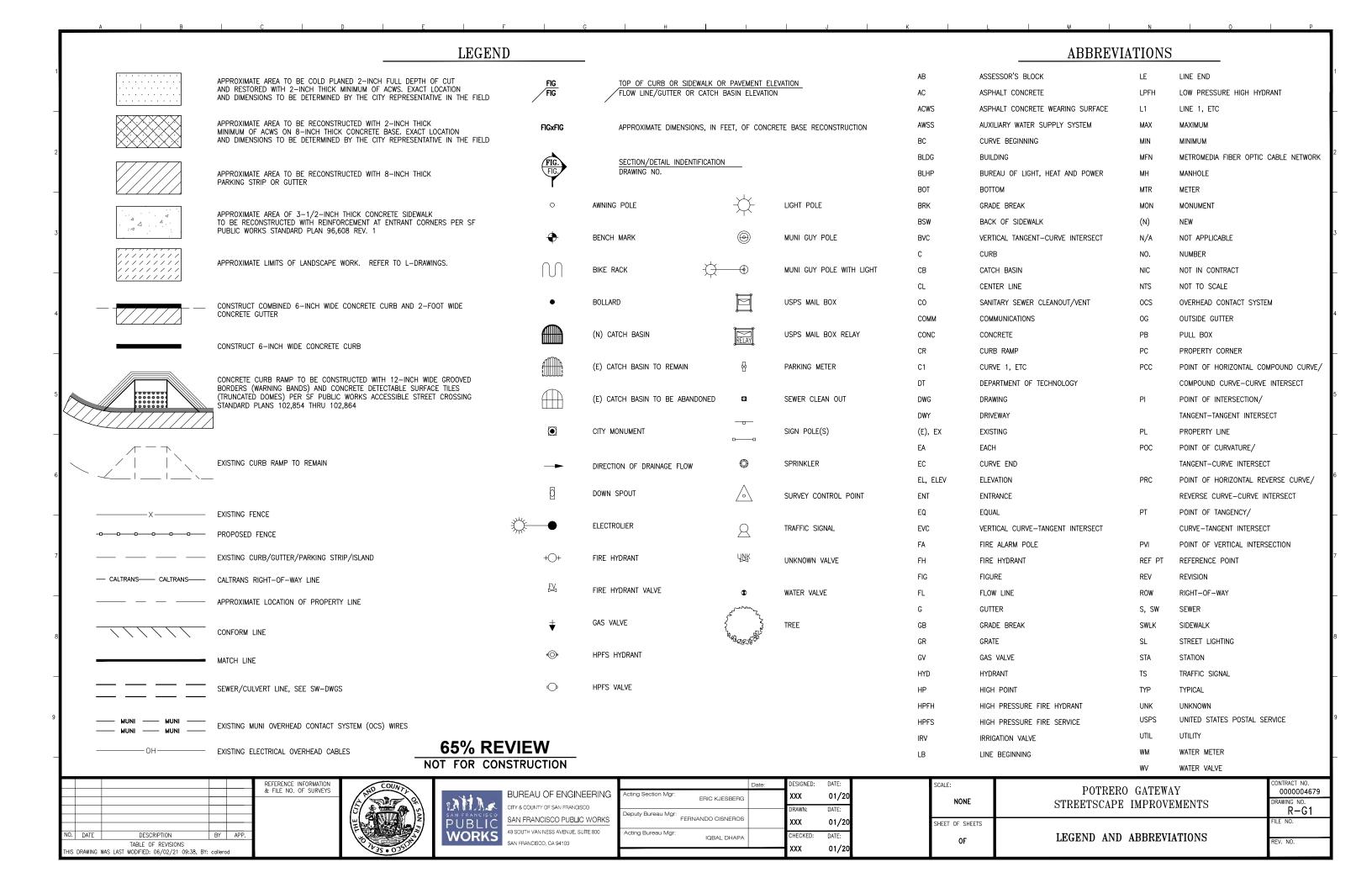


BUREAU OF ENGINEERING CITY & COUNTY OF SAN FRANCISCO. SAN FRANCISCO PUBLIC WORKS 49 SOUTH VAN NESS AVENUE, SUITE 800 SAN FRANCISCO, CA 94103

		Date:	DESIGNED:	DATE:
Acting Section Mgr:	ERIC KJESBERG		DMC	9/1/20
Deputy Bureau Mgr:	FERNANDO CISNEROS		DRAWN:	DATE:
Acting Bureau Mgr:	IQBAL DHAPA		CHECKED:	DATE:

SCALE: NONE	POTRERO GATEWAY STREETSCAPE IMPROVEM
SHEET OF SHEETS	VICINITY MAP & SURVEY CONTROL

WAY 0000004679 VEMENTS RAWING NO G-3



GENERAL NOTES

- ENTERING INTO THIS CONTRACT WITH THE CITY INDICATES THAT THE CONTRACTOR HAS VISITED THE SITE, IS
 FAMILIAR WITH THE EXISTING CONDITIONS AND REVIEWED SAME WITH THE REQUIREMENTS OF THE CONTRACT
 DOCUMENTS.
- 2. THE CONTRACTOR IS RESPONSIBLE FOR CHECKING ALL CONTRACT DOCUMENTS AND FIELD CONDITIONS, AND FOR CONFIRMING THAT THE WORK IS BUILDABLE AS SHOWN BEFORE PROCEEDING WITH THE WORK. THE CONTRACTOR IS RESPONSIBLE FOR OBTAINING CLARIFICATION FROM THE CITY BEFORE PROCEEDING WITH THE WORK IN QUESTION OR RELATED WORK. WRITTEN DIMENSIONS SHALL GOVERN. THE CONTRACTOR SHALL VERIFY ALL DIMENSIONS PRIOR TO PROCEEDING WITH THE WORK.
- THE CONTRACTOR SHALL VERIFY EXISTING FACILITIES IN THE FIELD, WHETHER OR NOT THEY ARE SHOWN ON THE DRAWINGS.
- THE CONTRACTOR SHALL NOTIFY THE CITY REPRESENTATIVE IN WRITING OF CONFLICTS BETWEEN DRAWINGS
 PRIOR TO PROCEEDING WITH THE WORK IN QUESTION.
- 5. THE CONTRACTOR IS RESPONSIBLE FOR WORKING AROUND AND PROTECTING ALL EXISTING FACILITIES ADJACENT TO THE WORK AREA. THESE FACILITIES INCLUDE, BUT ARE NOT LIMITED TO, THE FOLLOWING: CABLE CAR TRACKS, TREES, LANDSCAPING, HYDRANTS AND UTILITY POLES.
- 5. THE CONTRACTOR IS RESPONSIBLE FOR COORDINATING ALL WORK UNDER THIS CONTRACT TO AVOID REDUNDANCY BETWEEN PAVING/CURB RAMP WORK AND SEWER AND/OR WATER WORK OR OTHER UTILITY REQUIRED TRENCH RESTORATION.
- CONFORM LINE SHALL BE FIVE (5) FEET BEYOND THE EXTENDED PROPERTY LINE UNLESS OTHERWISE INDICATED ON THE DRAWINGS OR AS DIRECTED BY THE CITY REPRESENTATIVE.
- THE THICKNESS OF THE NEW ASPHALT CONCRETE WEARING SURFACE (ACWS) SHALL BE TWO (2) INCHES
 MINIMUM UNLESS OTHERWISE INDICATED ON THE DRAWINGS OR AS DIRECTED BY THE CITY REPRESENTATIVE.
- 9. CURB GRADE SHALL BE SIX (6) INCHES ABOVE THE ADJACENT PAVEMENT GRADE OR GUTTER GRADE UNLESS OTHERWISE INDICATED ON THE DRAWINGS OR AS DIRECTED BY THE CITY REPRESENTATIVE.
- 10. WHEN EXISTING AND NEW ELEVATIONS ARE GIVEN FOR THE SAME POINT, THE CONTRACTOR SHALL CONSTRUCT TO NEW ELEVATIONS. UNLESS OTHERWISE DIRECTED BY THE CITY REPRESENTATIVE, THE EXISTING ELEVATIONS ARE FOR INFORMATION ONLY.
- 11. STANDARD DETAILS AND INFORMATION SHALL BE USED FOR ALL APPLICABLE CASES UNLESS OTHERWISE INDICATED.
- 12. CROSS SECTION CALL—OUTS ARE SHOWN ONLY ONCE ON THE DRAWINGS AND ARE TYPICAL FOR SIMILAR CONDITIONS UNLESS OTHERWISE INDICATED.
- 13. EXISTING CATCHBASIN GRADE SHALL BE ADJUSTED IN THE FIELD TO CONFORM TO NEW GUTTER GRADE.
- 14. NEW GUTTER AND/OR PARKING STRIP SHALL CONFORM TO EXISTING PAVEMENT UNLESS OTHERWISE INDICATED.
- 15. THE LIMITS OF SIDEWALK RECONSTRUCTION SHOWN ON THE DRAWINGS ARE APPROXIMATE. THE CONTRACTOR SHALL SAWCUT TO THE NEAREST FLAG/JOINT AND MATCH THE EXISTING SCORE PATTERN UNLESS OTHERWISE INDICATED ON THE DRAWINGS OR AS DIRECTED BY THE CITY REPRESENTATIVE.
- 16. ALL UTILITY VAULTS AND PULL BOXES WITHIN THE SIDEWALK RECONSTRUCTION AREA SHALL BE ADJUSTED TO THE NEW GRADE.
- 17. FOR ALL TRAFFIC SIGNAL PULL BOXES THAT ARE ROTATED, RELOCATED OR ADJUSTED, THE CONTRACTOR SHALL CONTACT MTA TRAFFIC SIGNAL SHOP EDDIE TSUI AT LEAST THREE (3) DAYS PRIOR TO SETTING THE PULL BOX AT THE NEW LOCATION AND/OR GRADE. ALL WORK SHALL MEET REQUIREMENTS OF SEDRY STANDARD PLAN 87 201
- 18. THE 12-INCH WIDE GROOVED BORDERS (WARNING BANDS) ON CURB RAMPS SHALL NOT BE PART OF THE SLOPED RAMP AND WING SURFACES UNLESS OTHERWISE INDICATED.
- 19. CURB RAMPS WITH GRADE BREAKS SHALL HAVE A BACK OF CURB (BOC) ELEVATION OF 0.01 FEET HIGHER THAN THE SPECIFIED FACE OF CURB (FOC) ELEVATION. CURB RAMPS WITHOUT GRADE BREAKS SHALL HAVE A MAXIMUM BACK OF CURB (BOC) ELEVATION OF 0.04 FEET HIGHER THAN THE FACE OF CURB (FOC) ELEVATION.
- 20. ELEVATIONS SHOWN ON CURB RAMP DETAILS ARE MEASURED IN FEET AND ARE RELATIVE TO A LOCAL REFERENCE POINT (TOP OF FIRE HYDRANT IN MOST CASES) UNLESS OTHERWISE INDICATED.
- 21. ASPHALT CONCRETE PATCHING AROUND NEW GUTTERS AND/OR PARKING STRIPS AT CURB RETURNS SHALL BE CONSIDERED AS INCIDENTAL WORK TO THE CURB RAMP BID ITEM.
- 22. CONCRETE BASE WORK SHOWN ON CURB RAMP DETAILS MAY OVERLAP WITH THE SAME WORK SHOWN ON PAVEMENT PLANS. THE CONTRACTOR SHALL COORDINATE OVERALL PAVING WORK TO AVOID PERFORMING DUPLICATE WORK.

- 23. ANY POLES OR VERTICAL ELEMENTS INSTALLED OR RELOCATED NEAR FIRE HYDRANTS SHALL ADHERE TO THE FOLLOWING MINIMUM CLEARANCES: THE MINIMUM CLEARANCE BETWEEN A POLE OR VERTICAL ELEMENT TO A HIGH PRESSURE HYDRANT IS FIVE (5) FEET. THE MINIMUM CLEARANCE BETWEEN A POLE OR VERTICAL ELEMENT TO A LOW PRESSURE HYDRANT IS FIVE (5) FEET.
- 24. ALL CITY MONUMENTS MUST BE PROTECTED PER STATE LAND SURVEYORS ACT. CALL THE COUNTY SURVEYOR AT (628)271-2000 TO REPORT ANY MONUMENTS IN DANGER OF DISTURBANCE, DESTRUCTION OR REMOVAL.
- 25. CONTRACTOR SHALL AVOID DAMAGING AND PROTECT IN PLACE EXISTING GRANITE CURBS. CONTRACTOR SHALL NOTIFY CITY REPRESENTATIVE OF ANY GRANITE CURB NOT IDENTIFIED ON THE PLANS TO BE RESET OR SALVAGED THAT IS IN CONFLICT WITH PROPOSED WORK.
- 26. EXISTING GRANITE CURB SHALL ONLY BE REPLACED WITH CONCRETE CURB ON CURVED RETURNS
 AND AS PART OF CURB RAMP CONSTRUCTION. EXISTING GRANITE CURB IN GOOD CONDITION SHALL BE RESET TO
 NEW GRADE. IF EXISTING GRANITE CURB IS DAMAGED, CONTRACTOR SHALL NOTIFY CITY REPRESENTATIVE.
- 27. IN THE EVENT COBBLESTONES ARE ENCOUNTERED AND TO BE REMOVED IN ANY STREET UNDER CONSTRUCTION, THE CONTRACTOR SHALL REMOVE THEM FROM THE PROJECT SITE AS CITY PROPERTY. SALVAGE, HAULING AND DELIVERY OF EXISTING COBBLESTONES TO THE DESIGNATED AREAS, FROM THE PROJECT SITE, SHALL BE DONE AS INCIDENTAL WORK.
- 28. IN THE EVENT GROUNDWATER WELLS ARE ENCOUNTERED IN ANY STREET UNDER CONSTRUCTION, THE CONTRACTOR SHALL BE RESPONSIBLE FOR GROUNDWATER WELL PRESERVATION (OR DESTRUCTION, IF DESTRUCTION IS CALLED FOR). FOR PRESERVATION, THE CONTRACTOR SHALL EXERCISE CARE IN WORKING AROUND GROUNDWATER WELLS TO PREVENT DAMAGE.
- 29. AT THE COMPLETION OF WORK, THE CONTRACTOR SHALL REMOVE ALL MARKS, STAINS AND BLEMISHES RESULTING FROM CONSTRUCTION OPERATIONS THROUGHOUT THE CONTRACT.
- THE CONTRACTOR SHALL PREVENT CONSTRUCTION MATERIAL, PAVEMENT, CONCRETE, EARTH, PAINTS, THINNER, SOLVENTS, AND OTHER DEBRIS OR TOXIC MATERIAL FROM ENTERING A SEWER OR SEWER STRUCTURE INCLUDING SURFACE FLOW COLLECTION SYSTEM, SUCH AS CATCHBASINS AND CULVERTS.
- 31. THE CONTRACTOR IS RESPONSIBLE FOR CONTACTING PUBLIC AND PRIVATE UTILITIES FOR UTILITY ADJUSTMENT AND/OR RELOCATION. THE FOLLOWING ARE CONTACT PHONE NUMBERS:

BLHP	STREET LIGHTS		(415) 227-8506	Streetlights@sfwater.org
DPW	NEWS RACKS SEWER REPAIR STREET TREES (URBAN FORESTR	NAHEL SIMON Y)	(415) 554–5346 (415) 695–2096 (415) 641–2676	
DT	FIRE ALARM	MIKE DENNING	(415) 550-2718	
MTA	MUNI OVERHEAD LINES TRAFFIC SIGNAL SHOP BUS SHELTERS	JOHN ORKES CLIFFORD SMETHURST EDDIE TSUI GAIL STEIN	(415) 554-9227 (415) 554-9220 (415) 550-2742 (415) 646-2308	
SFWD	BUSINESS HOURS REPAIRS NON-BUSINESS HOURS REPAIRS IDENTIFY LINES		(415) 550-4965 (415) 550-4911 (415) 550-4925	
AT&T		LYNN SCHUSSEL MARIA TORRES CAROL MITCHELL	(650) 991–5630 (650) 216–2196	LS4524@att.com MT1276@att.com CM1463@att.com
COMCAS	Т	JEFF CASTANEDA DEREK NIPPE	(415) 377-1921 (415) 503-4505	Jeff_Castaneda@cable.comcast.co
PG&E	SERVICE PLANNING CONSTRUCTION	JASON BUHAGIAR DANA SOUZA BILL RUSSO	(628) 256-5013 (415) 757-8485 (415) 695-3330	JH28@pge.com D2GV@pge.com
CLEAR (CHANNEL (BUS SHELTERS)	NICHOLAS FAGUNDES ASHLEY KIRCHNER MARGEAUX CASILLAS	(925) 518-7042 (510) 446-7259	NicholasFagundes.ncs@comcast.ne AshleyKirchner.ncs@comcast.net MargeauxCasillas@clearchannel.com
ZAYO/AE	BOVENET (MFN FACILITIES)	ALLEN LEHEW	(415) 265-3189	Allen.Lehew@zayo.com
WAVE (A	STOUND)	KEN HAWKINS	(925) 332-7806	khawkins@wavebroadband.com
USPS	MAILBOXES		(415) 550-5248	

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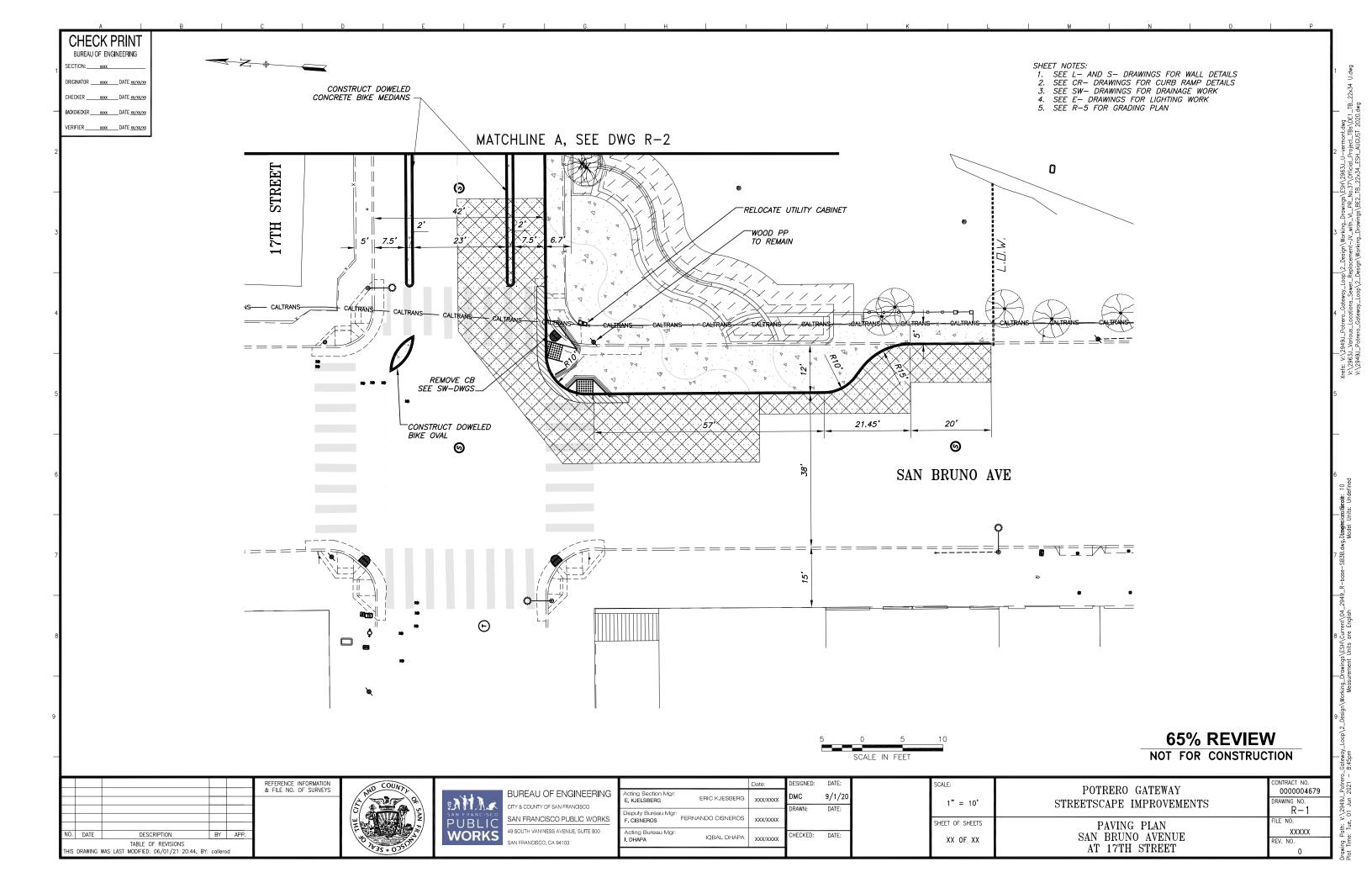


BUREAU OF ENGINEERING
CITY & COUNTY OF SAN FRANCISCO

SAN FRANCISCO PUBLIC WORKS
49 SOUTH VAN NESS AVENUE, SUITE 800
SAN FRANCISCO, CA 94103

	Date:	DESIGNED:	DATE:
Acting Section Mgr: ERIC KJESBERG		XXX	10/20
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Deputy Bureau Mgr: FERNANDO CISNEROS		xxx	10/20
Acting Bureau Mgr: IQBAL DHAPA		CHECKED:	DATE:
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SCALE:	POTRERO GATEWAY	CONTRACT NO. 0000004679
NONE	STREETSCAPE IMPROVEMENTS	R-G2
SHEET OF SHEETS		FILE NO.
OF	GENERAL NOTES	REV. NO.



SHEET NOTES:

- SHELT NOTES:

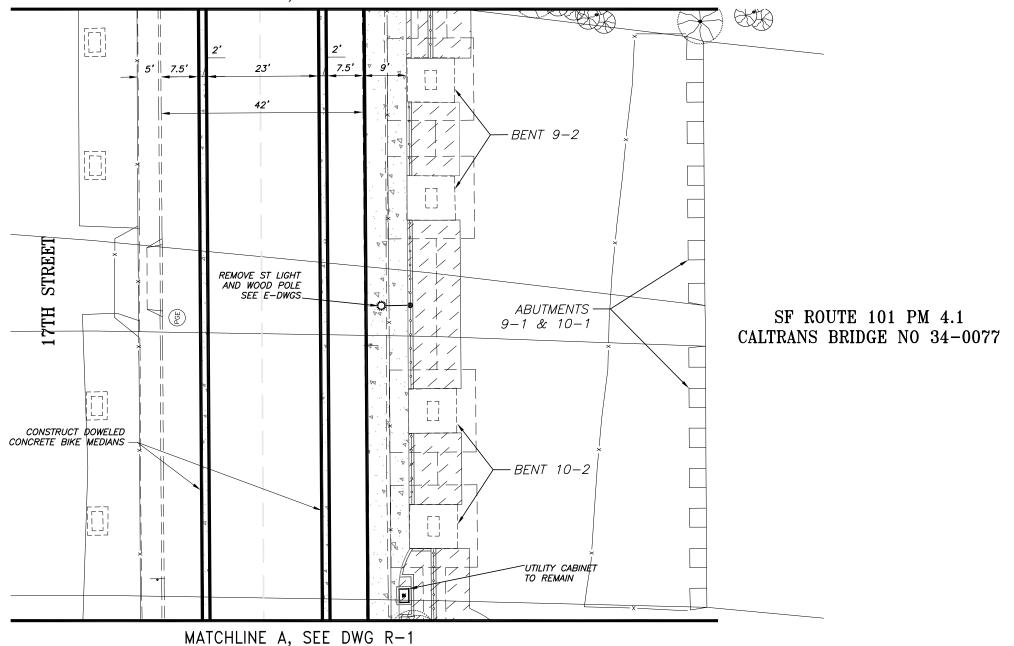
 1. SEE L— AND S— DRAWINGS FOR WALL DETAILS

 2. SEE SW— DRAWINGS FOR DRAINAGE WORK

 3. SEE E—DRAWINGS FOR LIGHTING WORK

 4. SEE R—6 FOR GRADING PLAN

MATCHLINE B, SEE DWG R-3





65% REVIEW NOT FOR CONSTRUCTION

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- N. J. S.	BUREAU OF ENGINEERING
SAN FRANCISCO PUBLIC WORKS	CITY & COUNTY OF SAN FRANCISCO
	SAN FRANCISCO PUBLIC WORKS
	49 SOUTH VAN NESS AVENUE, SUITE 800
WORKS	SAN FRANCISCO, CA 94103

		Date:	DESIGNED:	DATE:
Acting Section Mgr: E, KJELSBERG	ERIC KJESBERG	XXX/XXXX	DMC	9/1/20
Deputy Bureau Mgr: F. CISNEROS	FERNANDO CISNEROS	XXX/XXXX	DRAWN:	DATE:
Acting Bureau Mgr:	IQBAL DHAPA	xxx/xxxx	CHECKED:	DATE:

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SHEET OF SHEETS	
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ONTRACT NO. 000004679 POTRERO GATEWAY RAWING NO. STREETSCAPE IMPROVEMENTS PAVING PLAN 17TH STREET XXXXX SAN BRUNO AVE TO VERMONT ST

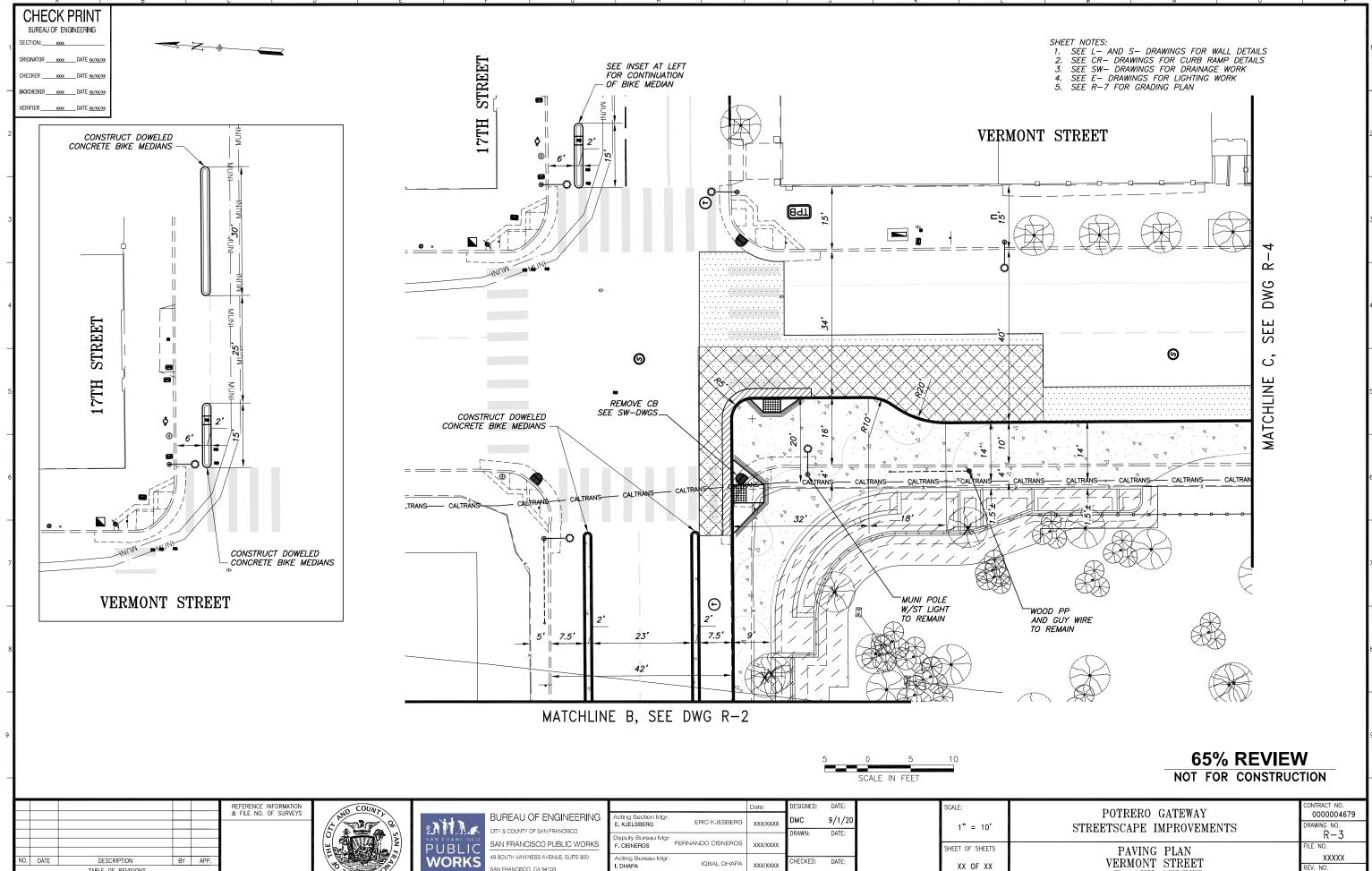
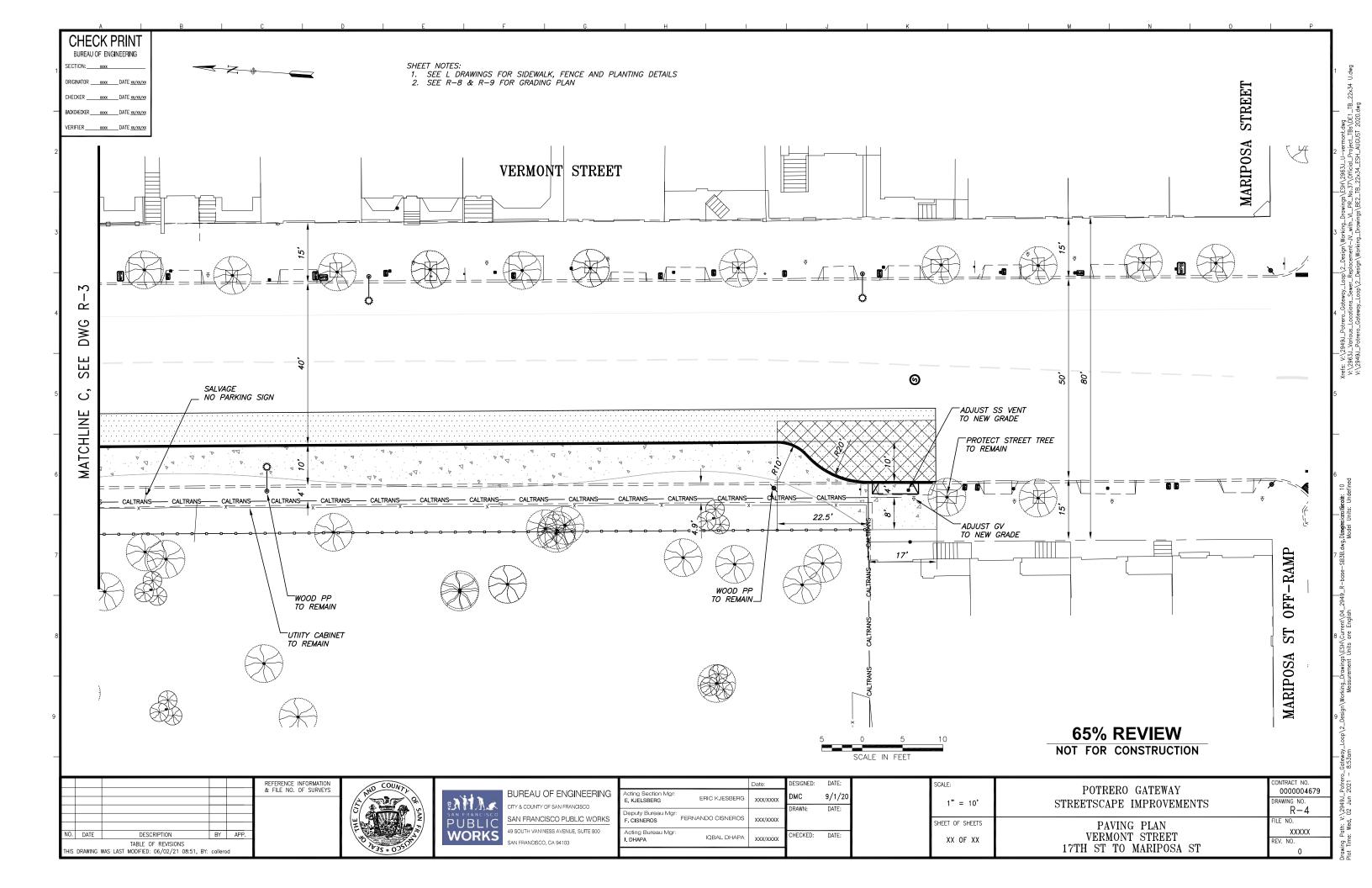
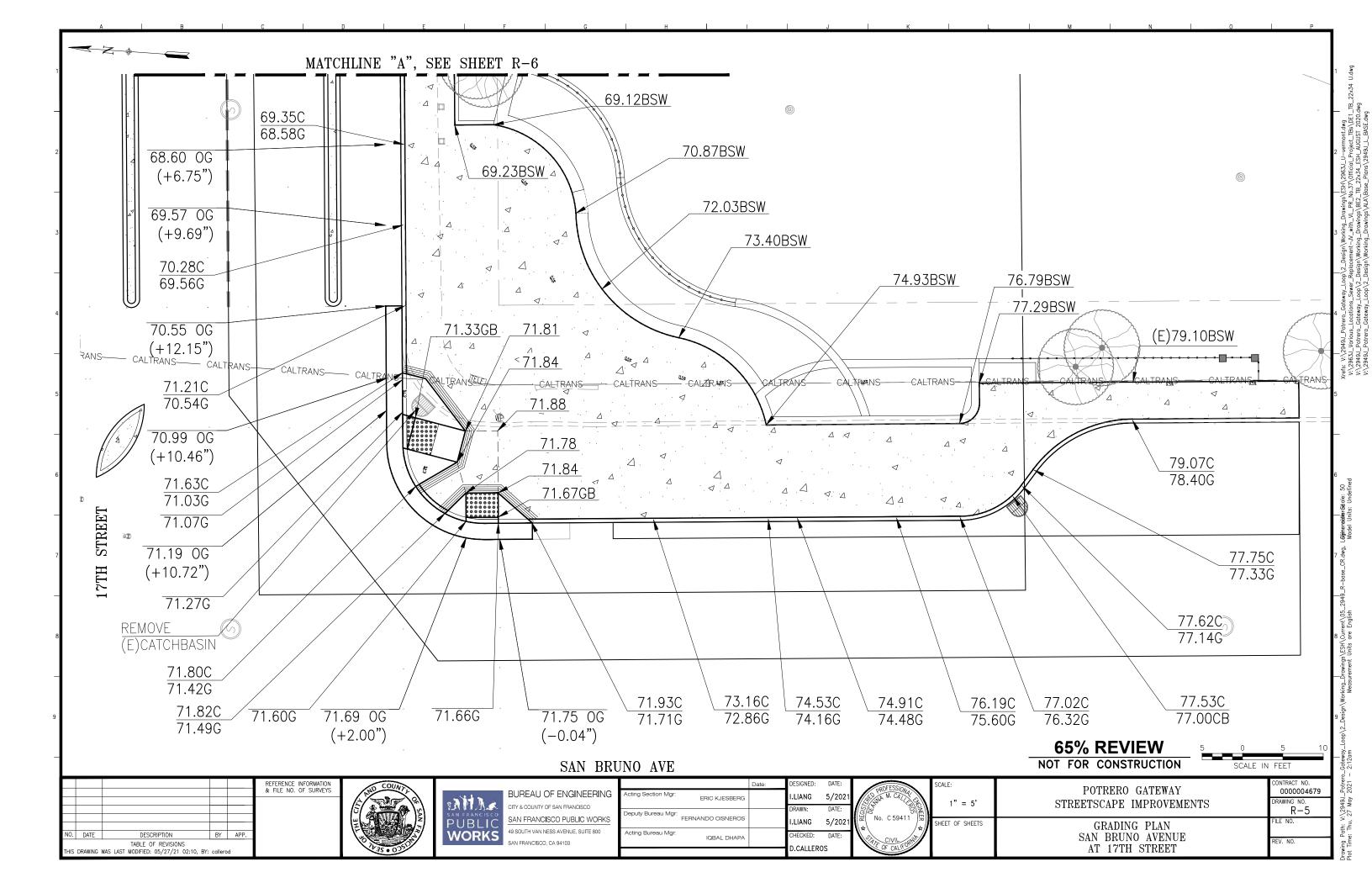


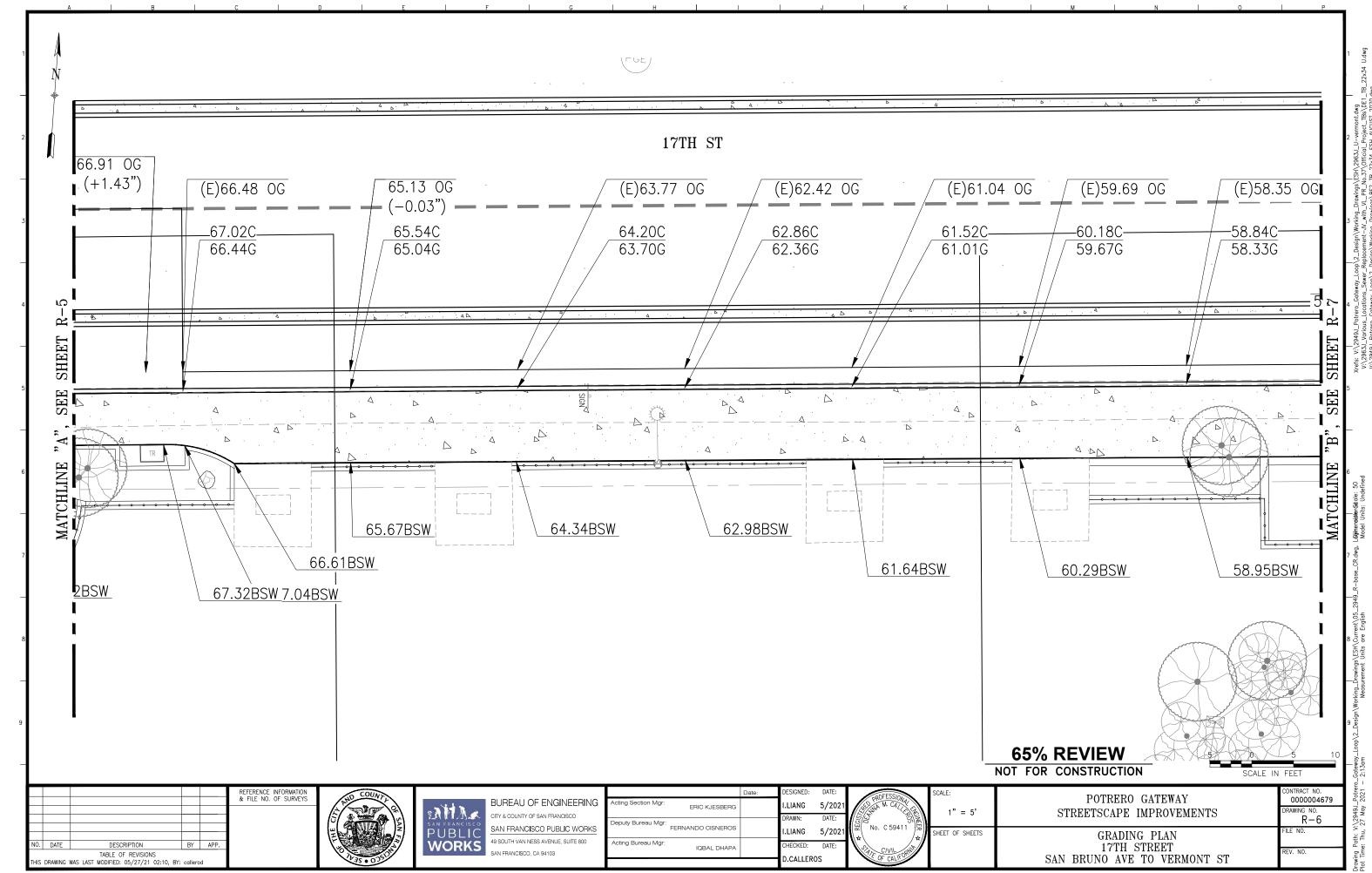
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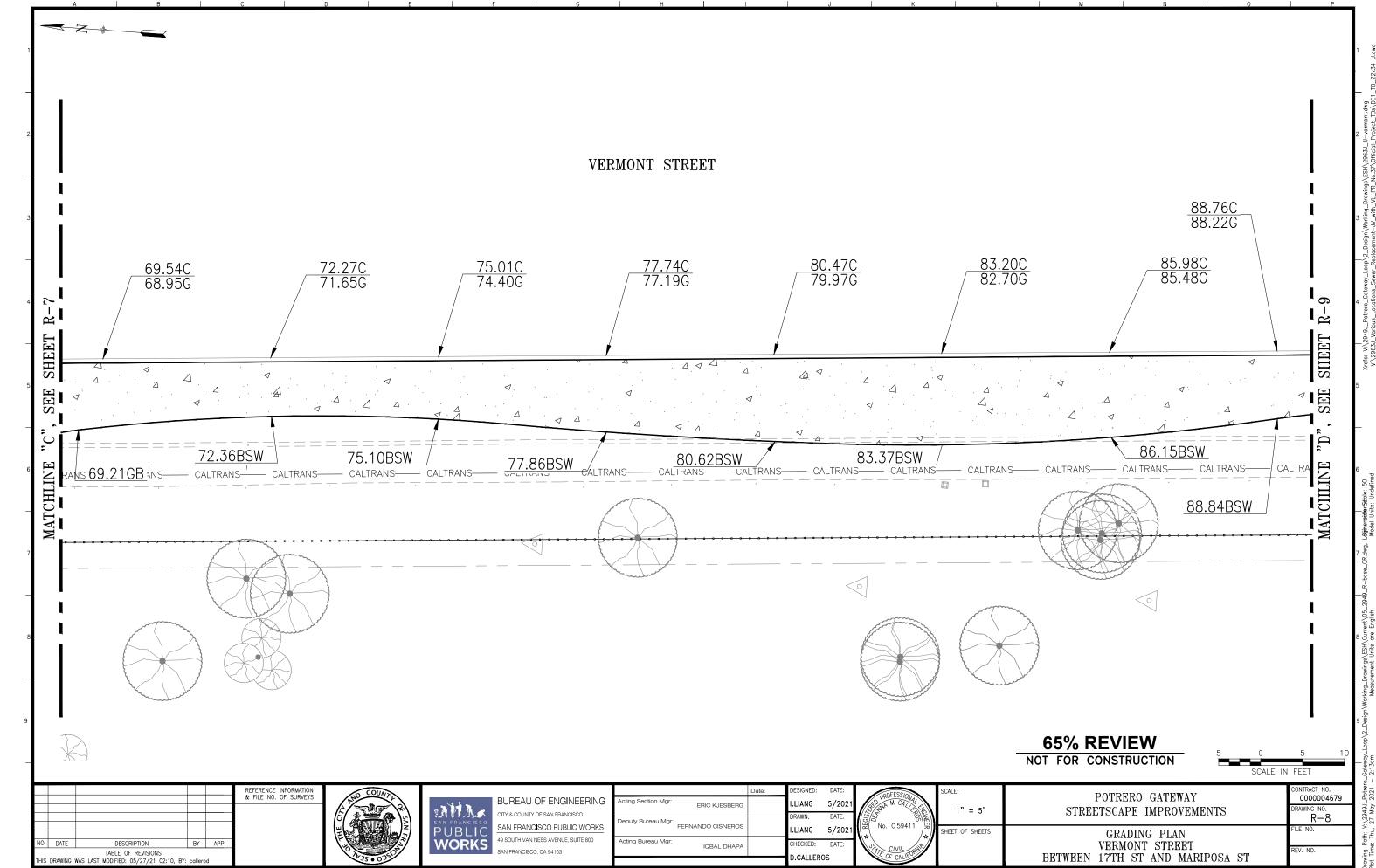
2949J_Potrero_Gatellay_Loop\2_Design\Working_Drawings\ESH\Qurrent\04_2949_R-base-SB3B.dwg.DlaoginsianUlacate: 10 12 Jun 2021 – 11:50am Meder Units: Undefined

AT 17TH STREET









Xrets: V1,2494_Potrero_Gateway_Loop/2_Design/Working_Drowings\tSH\2963_U-vermont.dw; V1\2965_Uarious_Locations_Sewer_Lablocement_W.with_UL_RN_0.37\Official_Project_TBs\f V1\2949_J. Potrero_Gateway_Loop/2_Design\Working_Drowings\tBz_1B_22X4f_ESH_AUGUST_2D V1\2949_U-Potrero_Gateway_Loop\Z_Design\Working_Drowings\talA\\tase_Plans\2949_U_LBASE.

ABBREVIATIONS LEGEND PLUS OR MINUS SIZE & TYPE EXISTING SEWER OR CULVERT ACWS ASPHALT CONCRETE WEARING SURFACE APPROX APPROXIMATE EXISTING MH AVE AVENUE വ.⊞ EXISTING CB. SWI AWSS AUXILIARY WATER SUPPLY SYSTEM EXISTING SIDE SEWER (LATERAL) AND FRESH AIR INLET D----BLVD BOULEVARD EXISTING MUNI TRACKS BRK BRICK CAC CALCIUM ALUMINATE CEMENTITIOUS ====== EXISTING MUNI OVERHEAD WIRES CB CATCH BASIN ---- MDB----- EXISTING MUNI DUCT BANK СН CHANGE — EXISTING AWSS CIPL CURED IN-PLACE LINER CONC CONCRETE FXISTING WATER MAIN SIZE & TYPE C-CCENTER TO CENTER NEW SEWER OR CULVERT CY CUBIC YARD \bigcirc NEW SEPW 3-FT MH DET DFTAIL DRAINAGE MANAGEMENT AREA Д NEW CB WITH CURB INLET PER SFDPW STD PLAN 87,187 DIA OR Ø DIAMETER DIP DUCTILE IRON PIPE NEW CB PER SFDPW STD PLAN 87,188 DWG DRAWING REPLACE (E) CB PER SFDPW STD PLAN 87,188 EAST (E) **EXISTING** ABANDON EXISTING CB FI EVATION FΙ NEW SS (LATERAL) PER SFDPW STD PLAN 87,196 **ENGR** FNGINFFR EQ EQUAL NEW 6" OR 8" SS CONNECTION TO MAIN SEWER HDPE HIGH DENSITY POLYETHYLENE PIPE 4----PLUG EXISTING FACILITIES HETCH HETCHY WATER POWER FGP FIBERGLASS PIPE PLUG AND FILL EXISTING FACILITIES HORIZ HORIZONTAL APPROXIMATE LOCATION OF CUT-OFF WALL HWY HIGHWAY (c) ID INSIDE DIAMETER //XXX APPROXIMATE PAVEMENT SURFACE INV INVFRT ISP IRON STONE PIPE DIRECTION OF FLOW LF LINEAR FEET SLURRY GROUT SHOWN IN SECTION OR PROFILE MAX MAXIMUM MDB MUNI DUCT BANK МН MANHOLF MH MANHOLE DESIGNATION MIN MINIMUM NORTH (N) NFW NIC NOT IN CONTRACT NO. NUMBER NTS NOT TO SCALE OC ON CENTER OD OUTSIDE DIAMETER æ PROPERTY LINE RC REINFORCED CONCRETE RCP REINFORCED CONCRETE PIPE ROW RIGHT OF WAY SOUTH SDR STANDARD DIMENSION RATIO SF SQUARE FEET S.F. SAN FRANCISCO SEDEA SAN FRANCISCO DEPARTMENT OF PUBLIC WORKS SEMTA SAN FRANCISCO MUNICIPAL TRANSPORTATION AGENCY SFPW SAN FRANCISCO PUBLIC WORKS SL SLOPE SPECS SPECIFICATIONS SIDE SEWER (LATERAL) SS ST STRFFT STD STANDARD SWI STORM WATER INLET THRU THROUGH (TYP) TYPICAL VERT VERTICAL VCP VITRIFIED CLAY PIPE WEST WITH W/ WITHOUT w/c COUNTY **BUREAU OF**

GENERAL NOTES

DETAIL NOTES:

1. WRAP AASHTO M288, CLASS 2,

2 WELL GRADED CRUSHED ROCK

BEDDING WITH 100% PASSING

PASSING THE #4 SIEVE. THE

FINES PASSING THE NO. 200

SHALL BE NON-PLASTIC.

DETAIL NOTES:

. PRIOR TO INSTALLING PIPES,

OR FOUNDATION. AFTER

PROVIDE "BELL HOLE" TO AVOID

RESTING OF BELL ON BEDDING

CONNECTING PIPES, FILL BELL

NOT NEED TO BE COMPACTED.

2. BEDDING IN THIS AREA SHALL BE

PLACED IN TWO LAYERS. AFTER

1ST LAYER IS PLACED, COMPACT REDDING IN HAUNCH AREA BY

SHOVEL SLICE METHOD EXCEPT

AT THE "BELL HOLE" AREA.

HOLE WITH BEDDING BUT IT DOES

NON-WOVEN GEOTEXTILE FABRIC AROUND CRUSHED ROCK

BEDDING, 1-FOOT MIN OVERLAP

THE 1" SIEVE MIN 90% PASSING

THE 3/4" SIEVE & WITH MAX 5%

- NUMBER AND LOCATIONS OF SIDE SEWER (LATERAL) CONNECTIONS ARE APPROXIMATE. CONTRACTOR SHALL VERIFY SIDE SEWER (LATERAL) CONNECTIONS IN THE FIELD.
- ALL GROUND SURFACE ELEVATIONS AND INVERT ELEVATIONS TO BE CONFORMED ARE APPROXIMATE.
- ELEVATIONS ARE IN REFERENCE TO S.F. CITY DATUM. S.F. CITY DATUM IS APPROXIMATELY 11.35 FEET HIGHER THAN NAVD88
- IN ACCORDANCE WITH THE PROVISIONS OF THE CALIFORNIA PUBLIC CONTRACT CODE SECTION 3300, A BID SUBMITTED TO A PUBLIC AGENCY BY A CONTRACTOR WHO IS NOT LICENSED IN ACCORDANCE WITH CHAPTER 9 OF THE BUSINESS AND PROFESSIONS CODE SHALL BE CONSIDERED NON-RESPONSIVE AND SHALL BE REJECTED BY THE PUBLIC AGENCY.
- AT THE TIME THIS CONTRACT IS BID, THE CONTRACTOR SHALL POSSESS A STATE OF CALIFORNIA CLASS "A" GENERAL ENGINEERING CONTRACTOR'S LICENSE
- PRIOR TO CONSTRUCTION, THE CONTRACTOR SHALL OBTAIN EXCAVATION PERMIT FROM SFPW-PERMIT CENTER LOCATED AT 49 SOUTH VAN NESS AVENUE, SUITE 200, SAN FRANCISCO, CA
- MAXIMUM TRENCH WIDTH SHALL BE THE LARGER OUTSIDE DIMENSION OF THE NEW OR EXISTING SEWER/STRUCTURE PLUS
- ALL NEW VCP AND RCP MAIN SEWERS SHALL BE CONSTRUCTED ON CRUSHED ROCK BEDDING PER DETAILS ON SW-G1, UNLESS OTHERWISE NOTED

SEE TRENCH

RESTORATION DETAIL

SEE DETAIL

SEE DETAIL

NOTE 2

GEOTEXTILE FABRIC -

UNDISTURBED SOIL

 $\frac{OD}{6}$, 5" MIN

WHICHEVER IS

GREATER (TYP)

NOTE

NOTE 1

MIN BEDDING WIDTH

-OD + 2'

BEDDING DETAIL FOR RIGID PIPE

- LINDISTLIRBED SOIL

PIPE INSTALLATION

- PIPE LENGTH SHOWN IN PROFILE INDICATES HORIZONTAL DISTANCE EXCLUDING INSIDE DIMENSION OF EACH SEWER
- 10. AFTER SEWER WORK, PAVING AND CURB RAMP HAS BEEN COMPLETED, THE CONTRACTOR SHALL CLEAN ALL CATCH BASINS SHOWN ON SW-DRAWINGS AND REPLACE CAST IRON WATER TRAP AS DIRECTED BY THE CITY REPRESENTATIVE.
- 11. CONTRACTOR SHALL PROTECT ALL SURVEY MONUMENTS AND BENCHMARKS LOCATED WITHIN THE CONTRACT LIMIT. CITY MONUMENTS LOCATED WITHIN 20 FEET OF CONSTRUCTION MUST BE REFERENCED PRIOR TO ANY DEMOLITION, AND A CORNER RECORD MUST BE FILED WITH THE COUNTY SURVEYOR'S OFFICE BY CONTACTING BUREAU OF STREET-USE AND MAPPING AT (628) 271-2000. THE MONUMENTS MUST BE REVISITED AFTER CONSTRUCTION HAS BEEN COMPLETED TO VERIFY THAT NO MOVEMENT HAS OCCURRED. IF MONUMENTS ARE NOT REFERENCED PRIOR TO CONSTRUCTION, THE CITY WILL CHARGE A MINIMUM FEE OF \$10,000 A PIECE TO THE CONTRACTOR FOR REESTABLISHING THE MONUMENT
- 12. PRIOR TO ABANDONING EXISTING SEWER FACILITIES, CONTRACTOR SHALL VERIFY THAT THERE ARE NO ACTIVE CONNECTIONS TO THESE FACILITIES, CONTRACTOR SHALL NOTIFY CITY REPRESENTATIVE IMMEDIATELY OF ANY DISCREPANCIES
- 13. RIM ELEVATIONS OF PROPOSED SEWER MANHOLES SHALL CONFORM TO FINISHED ROADWAY ELEVATIONS.
- 14. SPRAY MORTAR SHALL HAVE A MINIMUM COMPRESSIVE STRENGTH OF 6000 PSI AT 7 DAYS. FOR SURFACE PREPARATIONS AND ADDITIONAL REQUIREMENTS, REFER TO SPECIFICATION SECTION 33 01 30.63.

(E) PAVEMENT

<u>⊙D</u> , 5" MIN

WHICHEVER IS

GREATER (TYP)

GEOTEXTILE

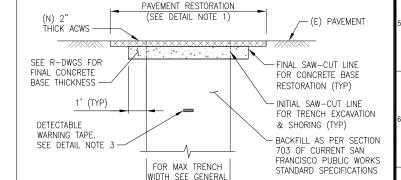
FABRIC

- GEOTEXTILE FABRIC

(SEE BEDDING DETAIL)

- SEE NOTE 1

- 15. SIDE SEWER (LATERAL) SHALL BE CONNECTED TO THE MAIN AT OR ABOVE THE SPRING LINE UNLESS OTHERWISE DIRECTED BY THE CITY REPRESENTATIVE
- 16. SIDE SEWER (LATERAL) TO BE REPLACED SHALL BE CONSTRUCTED ALONG THE SHORTEST DISTANCE FROM CURB TO MAIN SEWER WHERE POSSIBLE, UNLESS OTHERWISE NOTED.
- 17. SFMTA OVERHEAD ELECTRIC WIRES CARRY A MINIMUM OF 600 VOLTS DC AND HAVE A 17-FEET± VERTICAL CLEARANCE FROM THE ROADWAY. THE CONTRACTOR'S ATTENTION IS DIRECTED TO ARTICLE 37 OF GENERAL ORDER 95 OF THE STATE OF CALIFORNIA PUBLIC UTILITIES COMMISSION. CAL OSHA REGULATIONS REQUIRE THAT ANY EQUIPMENT THAT MOVES VERTICALLY MUST MAINTAIN A 10 FEET RADIAL CLEARANCE, AND ANY OTHER EQUIPMENT MUST MAINTAIN A 6 FEET CLEARANCE FROM MUNI OVERHEAD FLECTRIC WIRES. THE CONTRACTOR SHALL OBSERVE THESE REGULATIONS DURING THE ENTIRE DURATION OF THE CONSTRUCTION WORK.



1. LIMITS OF FINAL ACWS SHALL BE AS DELINEATED PER R-DRAWINGS.

NOTE NO. 7

DETAIL NOTES:

- 2. RESTORATION OF CONCRETE BASE MAY BE WIDER THAN SHOWN IN TRENCH RESTORATION DETAIL PER DPW ORDER 187,005, SECTION 11.
- 3. DETECTABLE WARNING TAPE SHALL BE 6" WIDE, 5 MIL THICKNESS GREEN METALLIC WARNING TAPE WITH WORDS "CAUTION: BURIED SEWER," AND CENTERED OVER AND PLACED 12" ABOVE THE TOP OF PIPE.

TRENCH RESTORATION DETAIL FOR ASPHALT STREET

65% DESIGN NOT FOR CONSTRUCTION USE

NO. DATE BY APP. DESCRIPTION TABLE OF REVISIONS



PUBLIC **WORKS**

CITY & COUNTY OF SAN FRANCIS 49 SOUTH VAN NES

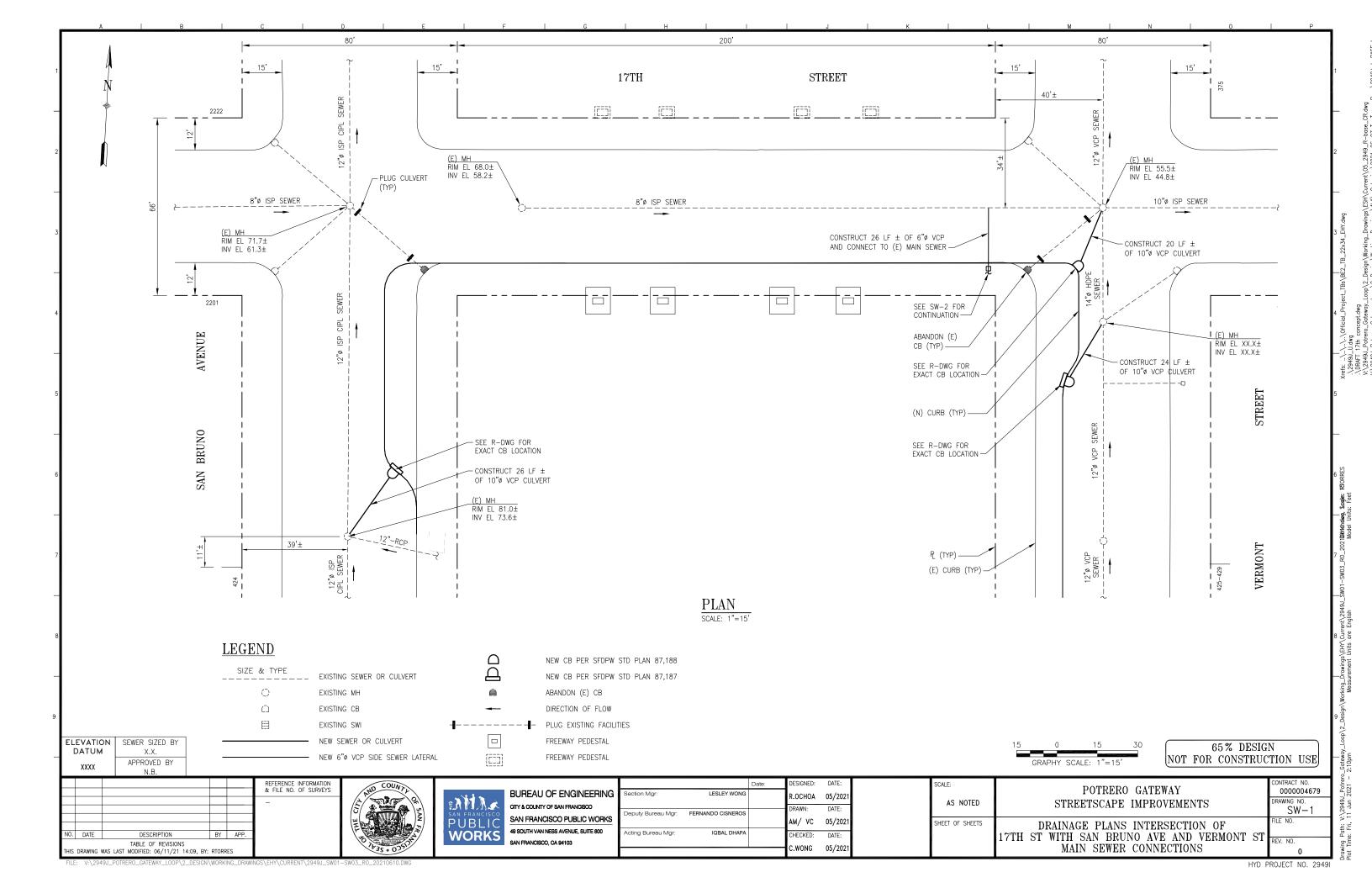
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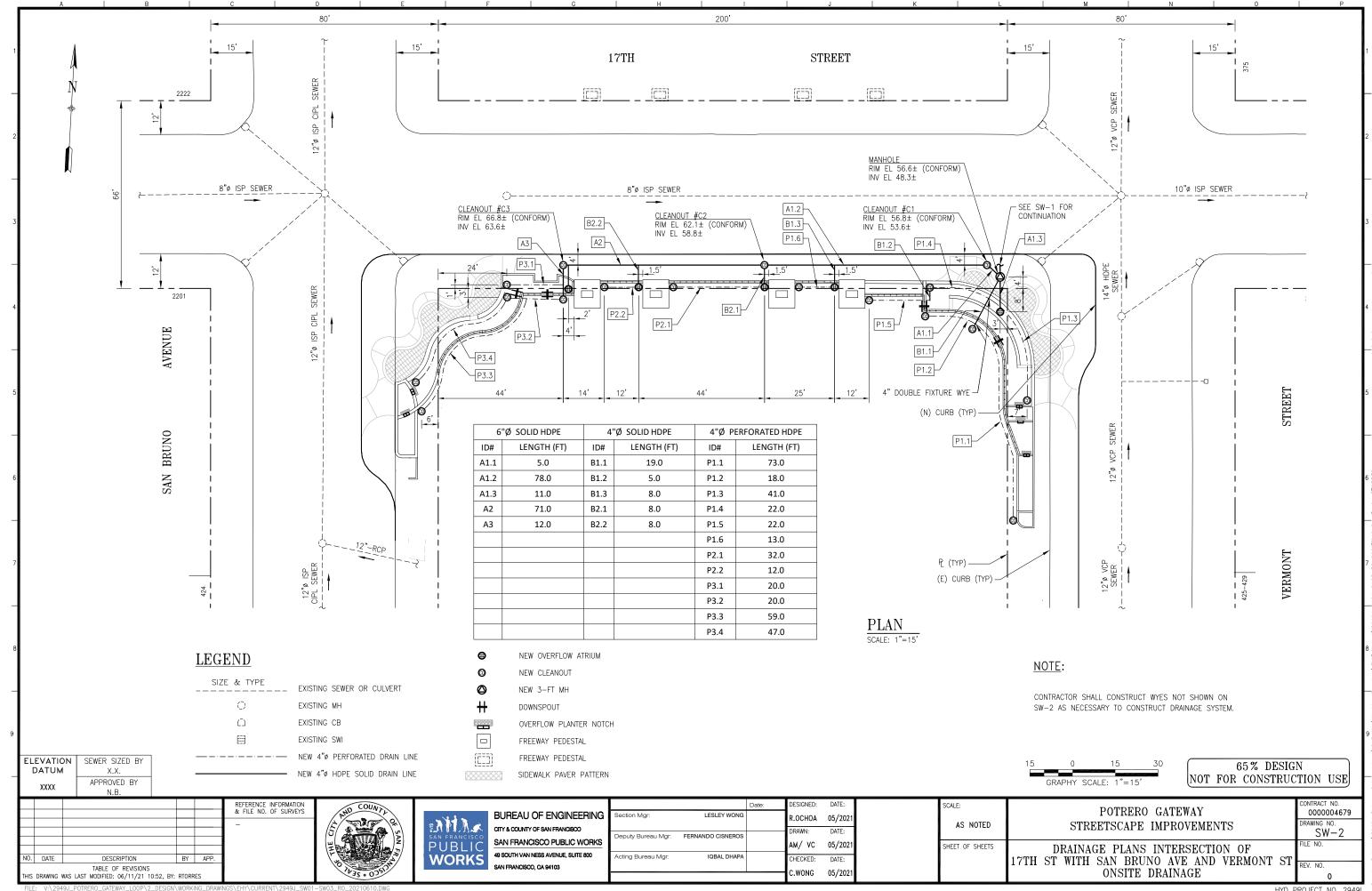
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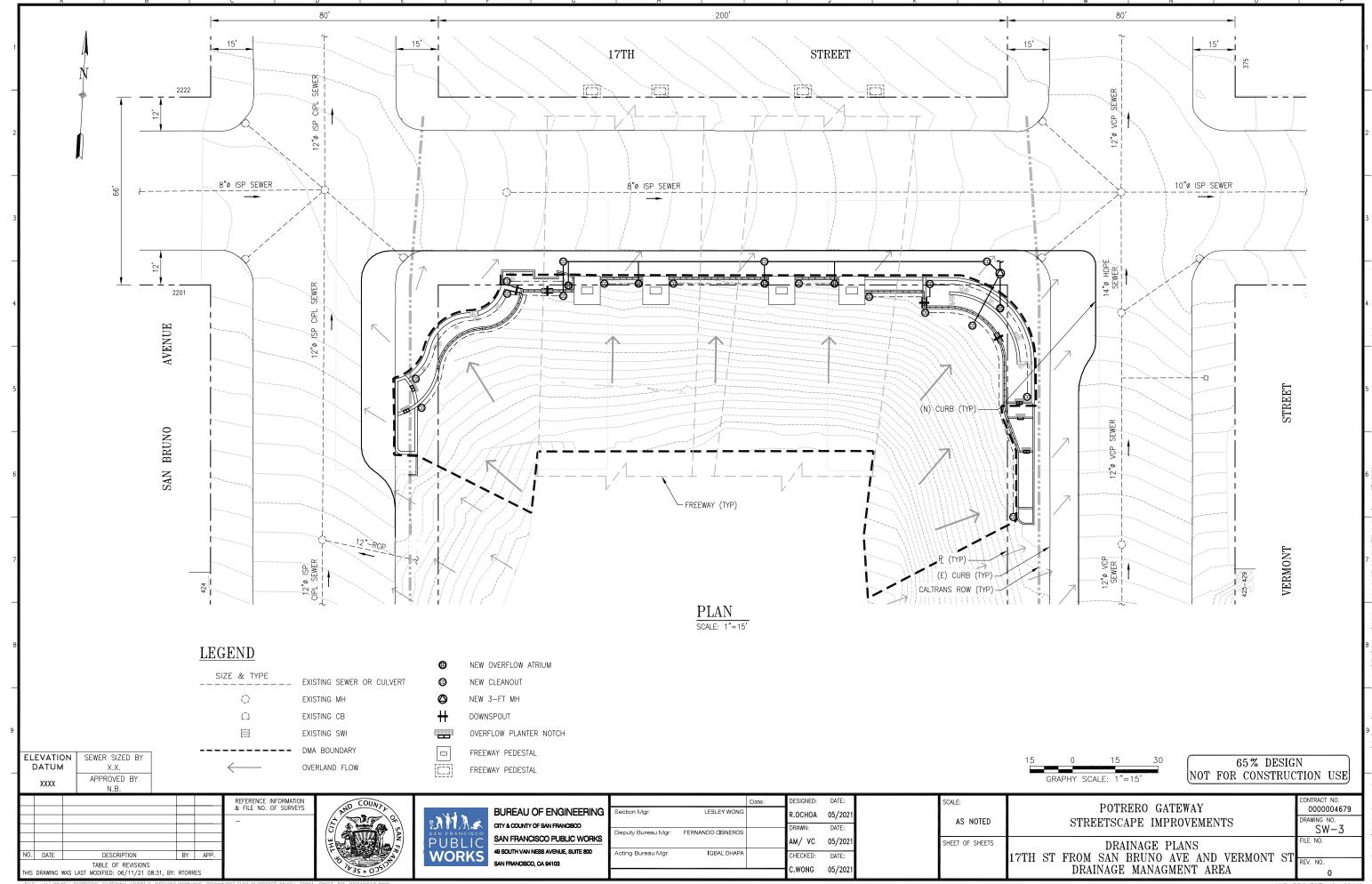
POTRERO GATEWAY STREETSCAPE IMPROVEMENTS

LEGEND, ABBREVIATIONS, GENERAL NOTES AND DETAILS FOR SEWER WORK

0000004679 DAWING NO SW-G







 EX-0.0 TO EX-0.3
 EXISTING CONDITIONS

 L-1.0 TO L-1.3
 DEMOLITION PLAN

 L-2.0 TO L-2.3
 MATERIALS PLAN

 L-3.0 TO L-3.3
 PAVING PLAN

L-4.0 TO L-4.3 LAYOUT PLAN NOT INCLUDED IN 65% SET

L-5.0 TO L-5.3 GRADING PLAN
L-6.0 TO L-6.3 IRRIGATION PLAN

L-6.4 IRRIGATION LEGENDS AND NOTES

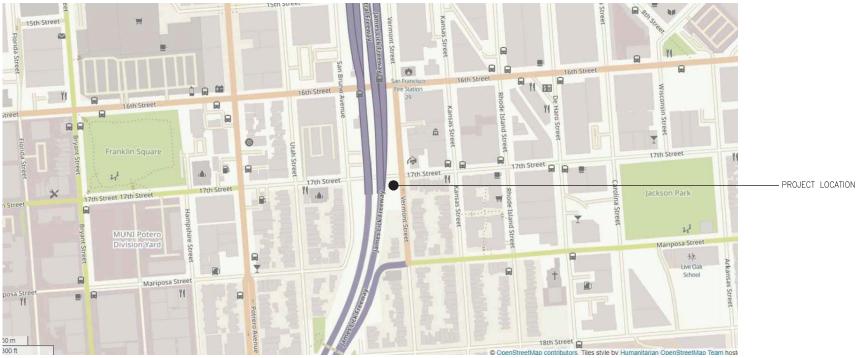
 L-6.5 TO L-6.6
 IRRIGATION DETAILS

 L-7.0 AND L-7.2
 PLANTING PLAN

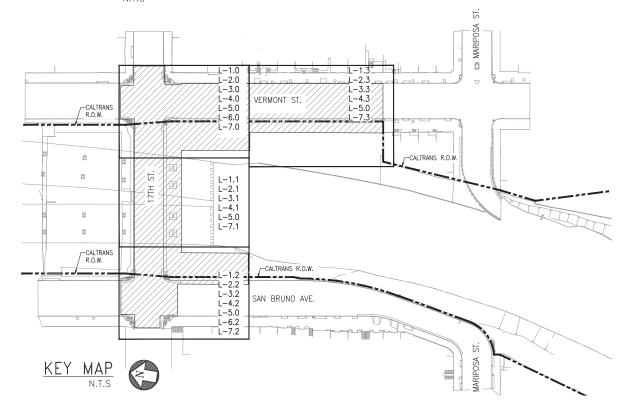
 L-7.3
 PLANTING DETAILS

 L-8.0 TO L-8.7
 CONSTRUCTION DETAILS

LANDSCAPE COVER SHEET & SHEET INDEX







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	Bureau Mgr: JENNIFER COOPER	00	XXX/XXXX	JK	
	City Architect & Deputy Director			DRAWN:	DATE:
s	RON ALAMEIDA	00	XXX/XXXX	CR	
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Signature 09-30-22	-
Renewel Date OF CALIFORNIA	

ALE:	POTRERO GATEWAY
AS SHOWN	STREETSCAPE IMPROVEMENTS
EET OF SHEETS	LANDSCAPE COVER SHEET AND SHEET INDEX
	65% SUBMITTAL - MAY 2021

ONTRACT NO. 0000004679

L-0.0

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LANDSCAPE GENERAL NOTES AND ABBREVIATIONS

LAYOUT NOTES

VERIFY ALL DIMENSIONS IN THE FIELD PRIOR TO BEGINNING CONSTRUCTION AND REPORT ANY DISCREPANCIES TO THE CITY REPRESENTATIVE PRIOR TO PROCEEDING

WRITTEN DIMENSIONS ON DRAWINGS SUPERSEDE SCALE DIMENSIONS

ALL DIMENSIONS ARE TO BE MEASURED HORIZONTALLY.

THE CONTRACTOR SHALL STAKE ALL PAVED AREAS AND FOOTINGS FOR REVIEW BY THE CITY REPRESENTATIVE BEFORE FINAL CONSTRUCTION.

LOCATIONS OF ALL SITE FURNISHINGS TO BE FIELD APPROVED BY CITY REPRESENTATIVE

PLANTING NOTES

SEE STANDARD SPECIFICATIONS, SECTION 1007 "PLANTING", FOR ADDITIONAL PLANTING INFORMATION.

PLANT LEGEND PROVIDED IS FOR THE CONVENIENCE OF THE CONTRACTOR. IN CASE OF DISCREPANCIES, THE PLAN SHALL GOVERN.

CONTRACTOR SHALL REVIEW ALL PLANT MATERIAL ON SITE WITH CITY REPRESENTATIVE AND SHALL INSTALL MATERIAL ONLY AFTER OBTAINING APPROVAL FROM THE CITY REPRESENTATIVE. LOCATIONS SHOWN ON PLANS ARE DIAGRAMMATIC ONLY.

THE CITY REPRESENTATIVE RESERVES THE RIGHT TO MAKE SUBSTITUTIONS, ADDITIONS, LAYOUT CHANGES AND DELETIONS IN THE PLANTING SCHEME AS THE WORK PROGRESSES.

UNLESS OTHERWISE NOTED, ALL SHRUBS SHALL BE SPACED TRIANGULARLY.

ALL PLANTING AREAS TO RECEIVE 3" MIN. REDWOOD BARK MULCH, U.O.N, SEE SPECIFICATIONS.

DEMOLITION NOTES

PROTECT ALL SITE ELEMENTS TO REMAIN.

PROVIDE CONSTRUCTION FENCING AT LIMITS OF WORK WHERE THE INTERFACE WITH GENERAL PUBLIC OCCURS AS SHOWN ON SHEET L-1.0-L1.3 THROUGHOUT CONSTRUCTION PERIOD SEE SPEC # 01 50 00 FOR MORE INFORMATION.

ALL MATERIALS SHALL BE DISPOSED OF IN A LEGAL MANNER AS CONTRACTOR'S PROPERTY.

PRIOR TO THE COMMENCEMENT OF WORK, A THOROUGH SITE REVIEW OF ALL EXISTING PLANT MATERIAL DESIGNATED TO BE REMOVED SHALL BE CONDUCTED WITH THE LANDSCAPE ARCHITECT. OBTAIN AUTHORIZATION FROM LANDSCAPE ARCHITECT AND RECREATION AND PARK STAFF PRIOR TO DEMOLITION OF ANY EXISTING PLANT MATERIAL

GRADING NOTES

VERIFY ALL GRADES IN THE FIELD BEFORE PROCEEDING WITH WORK, INCLUDING EXISTING IMPROVEMENTS; LOCATIONS AND

EXISTING GRADES SHOWN ARE APPROXIMATE AND SHALL BE FIELD VERIFIED. ALL DISCREPANCIES SHALL BE REPORTED TO THE CITY REPRESENTATIVE IMMEDIATELY

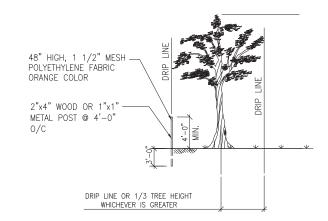
THE CONTRACTOR SHALL BE RESPONSIBLE FOR POSITIVE SURFACE DRAINAGE IN ALL PAVING AND PLANTING AREAS. ALL GROUND SURFACES SHALL BE FINISHED TO A SMOOTH AND CONTINUOUS GRADE, DRAINING AND FREE OF STANDING WATER.

PROVIDE A SMOOTH TRANSITION BETWEEN EXISTING AND NEW GRADES IN PAVED AREAS. WHERE OLD PAVEMENT ABUTS NEW PAVEMENT, FINISH GRADES SHALL BE FLUSH, UNLESS OTHERWISE NOTED. EASE TOP AND TOE OF ALL SLOPES TO PROVIDE SMOOTH TRANSACTIONS BETWEEN GROUND PLANES.

THE CITY REPRESENTATIVE RESERVES THE RIGHT TO MAKE ADJUSTMENTS IN THE FINISHED GRADES AS THE WORK

ELEVATIONS ARE BASED ON CITY AND COUNTY OF SAN FRANCISCO DATUM, UNLESS OTHERWISE NOTED.

TYPICAL EXISTING TREE PROTECTION



NOTES:

- PROTECT ALL EXISTING TREES WHOSE DRIP LINE IS WITHIN 25 FEET OF EXCAVATION, TRENCHING, GRADING, OR PATHWAY WORK, AGAINST INJURY OR DAMAGE FROM CONSTRUCTION OPERATIONS.
- SEE SPECIFICATION 01 56 39 "TEMPORARY TREE & PLANT PROTECTION" FOR OTHER REQUIREMENTS.
- FOR THOSE TREES NOTED ON DEMOLITION PLAN (D-DRWG) TO REMAIN, OBTAIN LAYOUT APPROVAL FROM CITY REPRESENTATIVE AND PROTECT PRIOR TO COMMENCING WORK BY ERECTING A TEMPORARY SAFETY FENCE PER DETAIL ABOVE ON SIDE(S) ADJACENT TO CONSTRUCTION.
- FOR THOSE TREES NOTED ON DEMOLITION PLAN (D-DRWG) TO REMAIN, EXCEPT WHEN ON ASPHALT PAVEMENT, NO VEHICLES OR MECHANICAL EQUIPMENT LARGER THAN A DITCHWITCH OR BOBCAT CLASS MACHINE ARE PERMITTED ANY CLOSER TO A TREE THAN 1/3 OF TREE HEIGHT OR TREE DRIP LINE, WHICHEVER DISTANCE IS GREATER. SHOULD VEHICLES OR EQUIPMENT (OTHER THAN MECHANICAL TRENCHING) BE NECESSARY WITHIN THIS PROXIMITY OF A TREE, A 4 INCH DEEP LAYER OF APPROVED BARK MULCH SHALL BE APPLIED OVER THE AREA TO BE USED BY SUCH VEHICLES OR EQUIPMENT.

ABBREVIATIONS

AREA DRAIN ALIGNMENT

CITY & COUNTY OF SAN FRANCISCO CCSF

CENTER LINE CATCH BASIN

CLR. CLEAR

CONC. CONCRETE CONT. CONTINUOUS

CONTROL JOINT DIA., Ø DIAMETER

DWG DRAWING (E)

FXISTING FASTING

EΑ FACH

EXPANSION JOINT EQUAL

FINISH GRADE

FOC FACE OF CURB FOW FTG. FACE OF WALL

FOOTING GALV. GALVANIZED

GRAVEL MULCH G.M.

LIMIT OF WORK L.O.W. MAX MAXIMUM

MIN MINIMUM

МН MANHOLF.

NORTHING N.I.C.

NOT IN CONTRACT NO., # NUMBER

NOT TO SCALE

NKF NO KNOWN EQUAL

ON CENTER OUTSIDE DIAMETER

PLANTING AREA

POINT OF BEGINNING RADIUS

STORM DRAIN SEE STRUCTURAL DRAWINGS SD SSD

SIM. SIMILAR S.J. SCORE JOINT

SPECIFICATIONS

STREET

TYPICAL HON

UNLESS OTHERWISE NOTED VERIFY IN FIELD V.I.F.

W/

FLUSH OR ALIGNED

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BUILDING, DESIGN AND CONSTRUCTION CITY & COUNTY OF SAN FRANCISCO SAN FRANCISCO PUBLIC WOR 49 SOUTH VAN NESS AVENUE, SUITE 1000 FRANCISCO CA 94103

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RKS 0	Bureau Mgr: JENNIFER COOPER	XXX/XXXX
	City Architect & Deputy Director RON ALAMEIDA	XXX/XXXX
		XXX/XXXX

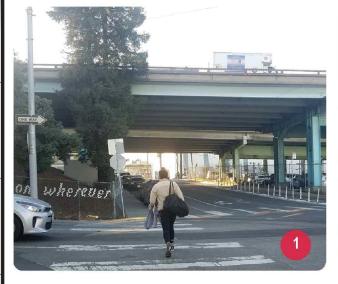
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SCALE: AS SHOWN	POTRERO GATEWAY STREETSCAPE IMPROVEMENTS
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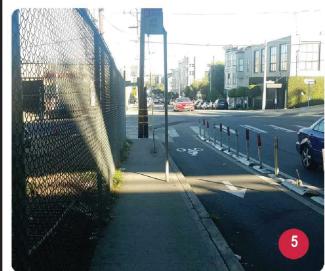
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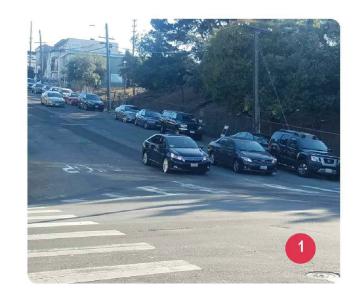
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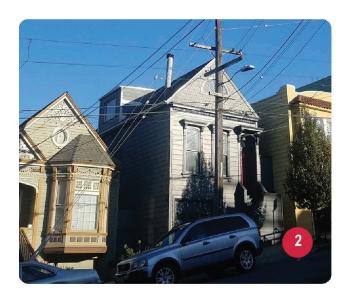
POTRERO GATEWAY STREETSCAPE IMPROVEMENTS EXISTING CONDITIONS - 17TH STREET

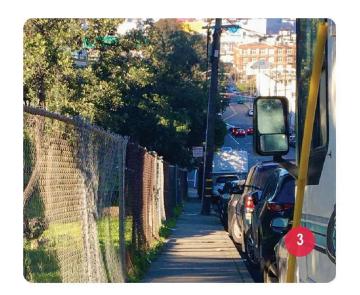
65% SUBMITTAL - MAY 2021

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PUBLIC WORKS

BUILDING, DESIGN
AND CONSTRUCTION
CITY & COUNTY OF SAN FRANCISCO
SAN FRANCISCO PUBLIC WORKS
49 SOUTH VAN NESS AVENUE, SUITE 1000
SAN FRANCISCO, CA 94103

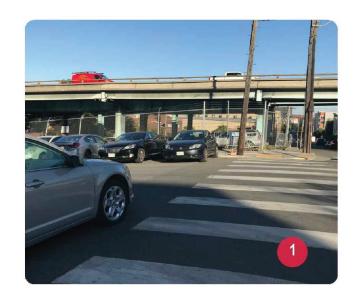
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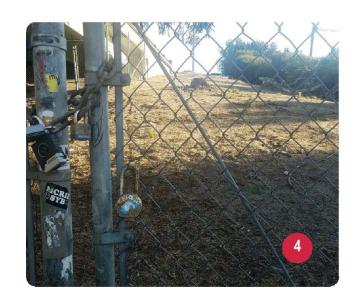
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PUBLIC WORKS

BUILDING, DESIGN AND CONSTRUCTION CITY & COUNTY OF SAN FRANCISCO

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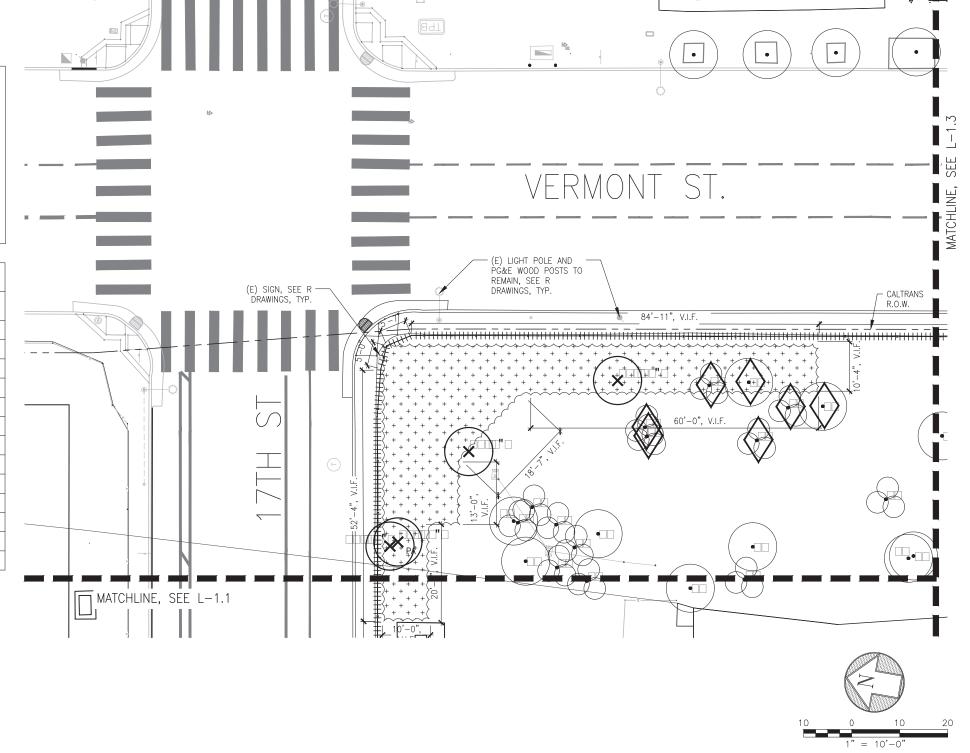
(E) TREE TO REMAIN

(E) TREE TO BE REMOVED SEE DETAILS BELOW

TREE DEMOLITION					
TREE #	CALIPER.	SPECIES			
14	20"	LEPTOSPERMUM LAEVIGATUM			
15	20"	LEPTOSPERMUM LAEVIGATUM			
16	16"	SEQUOIA SEMPERVIRENS			
17	6"	SEQUOIA SEMPERVIRENS			
18	16"	SEQUOIA SEMPERVIRENS			
19	12"	SEQUOIA SEMPERVIRENS			
20	8"	UNKNOWN			
21	12"	UNKNOWN			
51	8"	UNKNOWN			
55	4"	UNKNOWN			
56	5"	UNKNOWN			
57	5"	UNKNOWN			
58	5"	UNKNOWN			

NOTES:

1. SEE R (CIVIL) DRAWINGS FOR COMPLETE DEMOLITION SCOPE OF WORK



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DEMOLITION LEGEND

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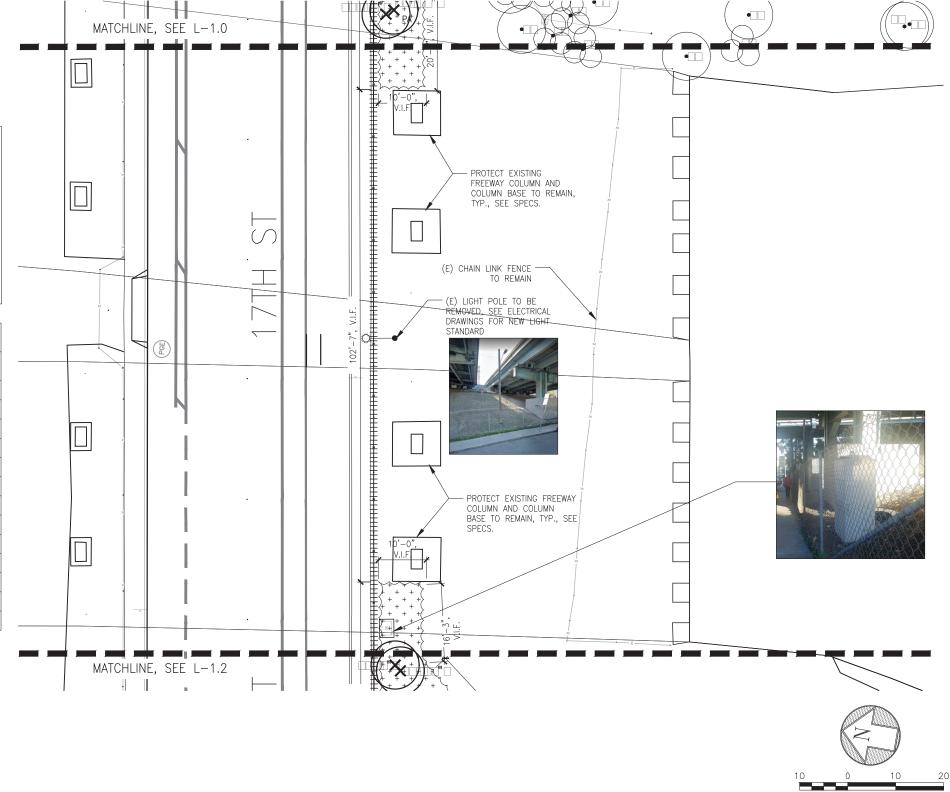
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TREE #	CALIPER.	SPECIES			
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51	8"	UNKNOWN			
55	4"	UNKNOWN			
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1. SEE R (CIVIL) DRAWINGS FOR COMPLETE DEMOLITION SCOPE OF WORK



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DEMOLITION LEGEND

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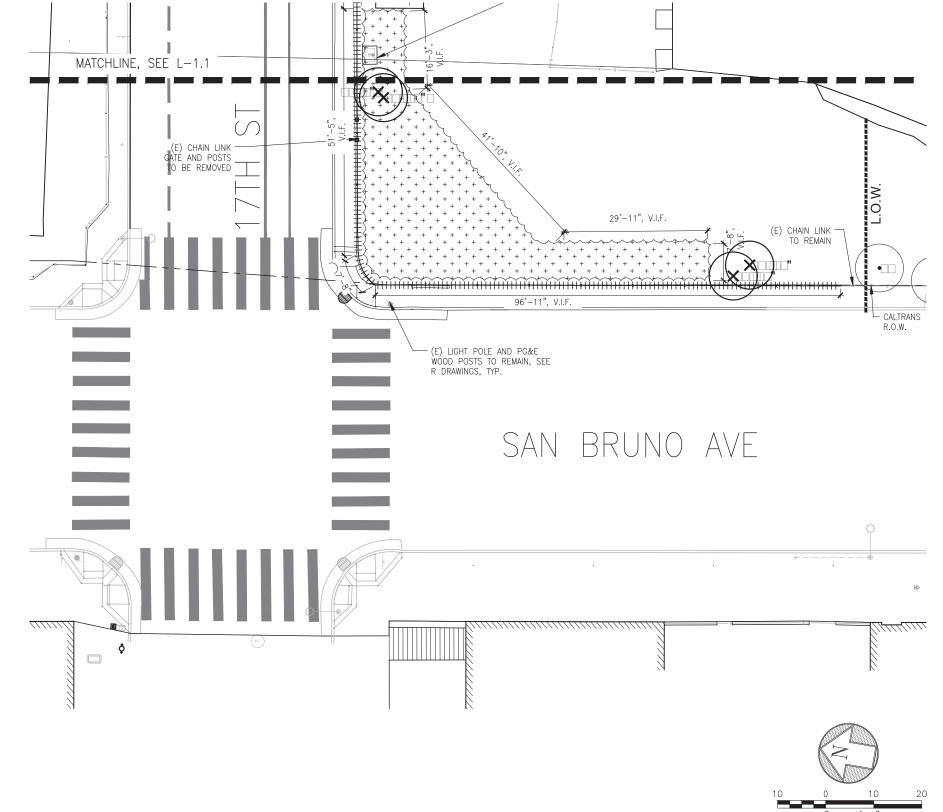
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14	20"	LEPTOSPERMUM LAEVIGATUM		
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56	5"	UNKNOWN		
57	5"	UNKNOWN		
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1. SEE R (CIVIL) DRAWINGS FOR COMPLETE DEMOLITION SCOPE OF WORK



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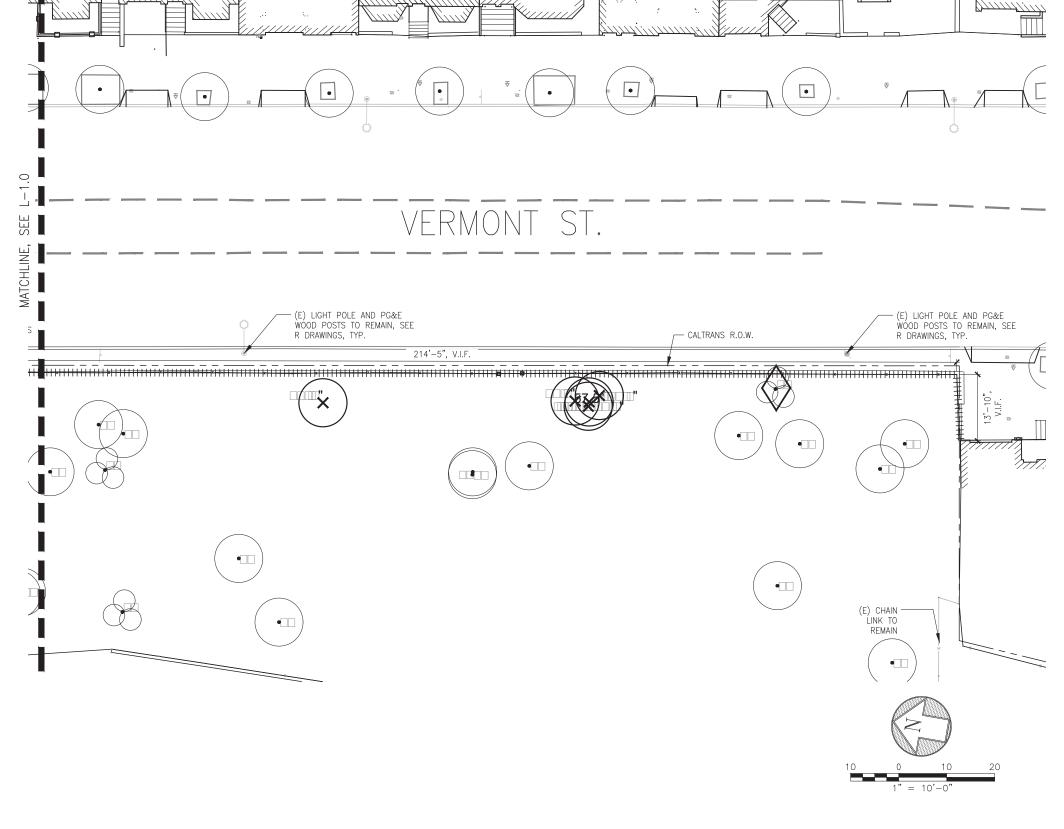
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TREE #	CALIPER.	SPECIES		
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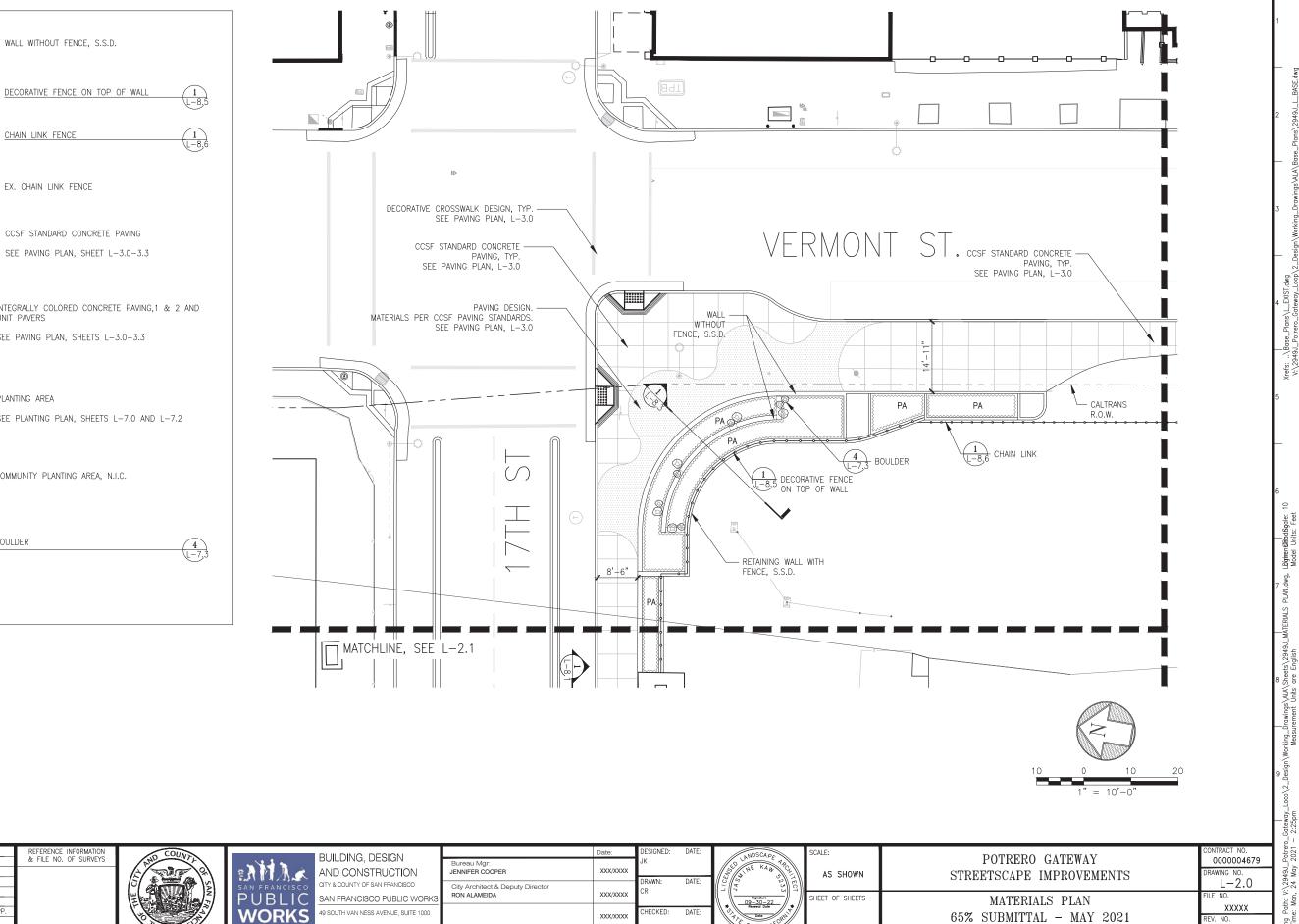
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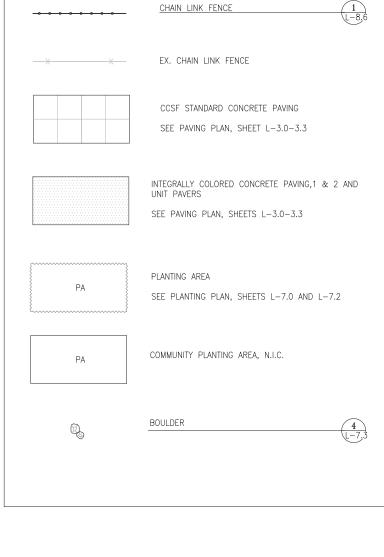
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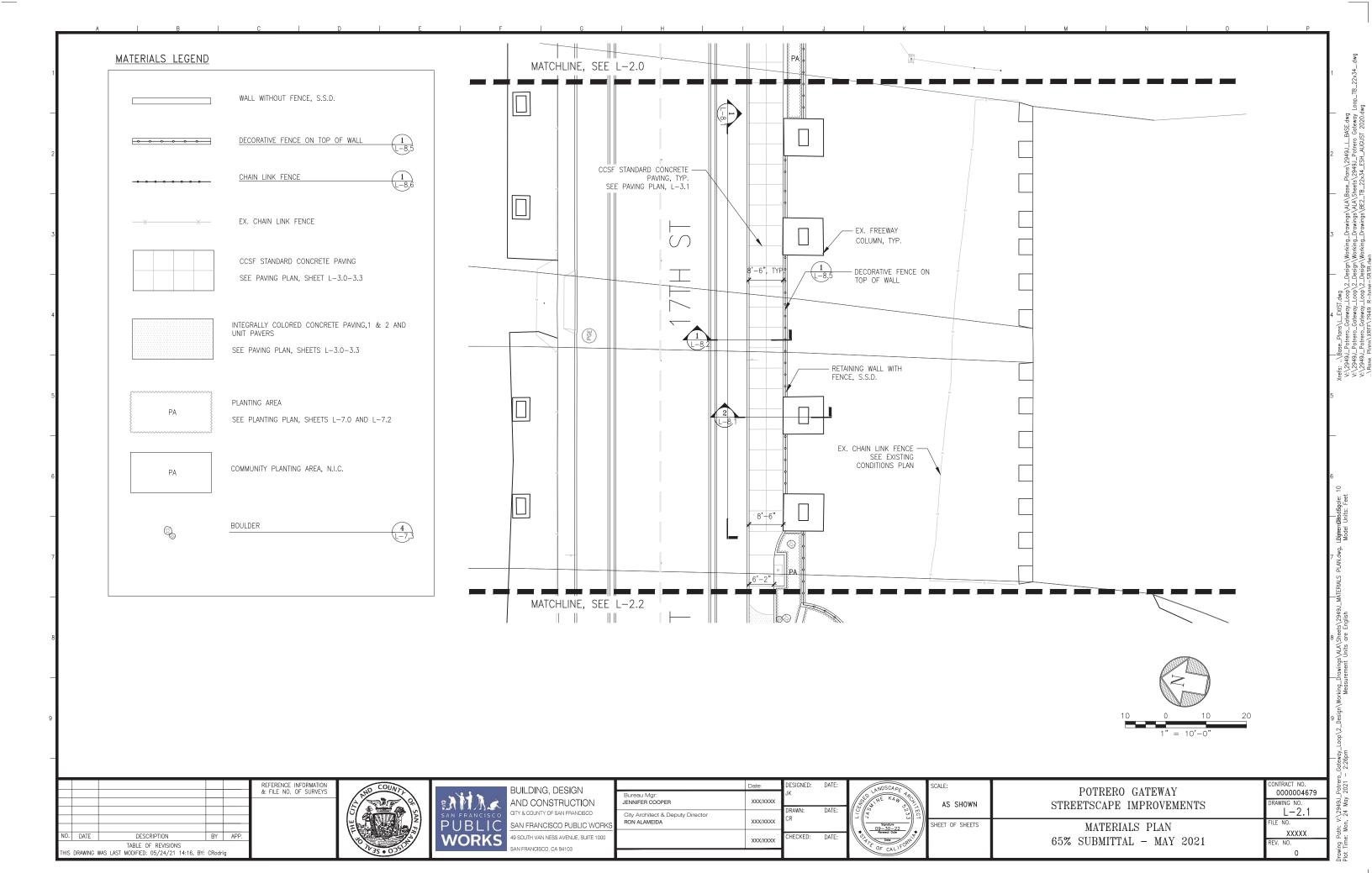
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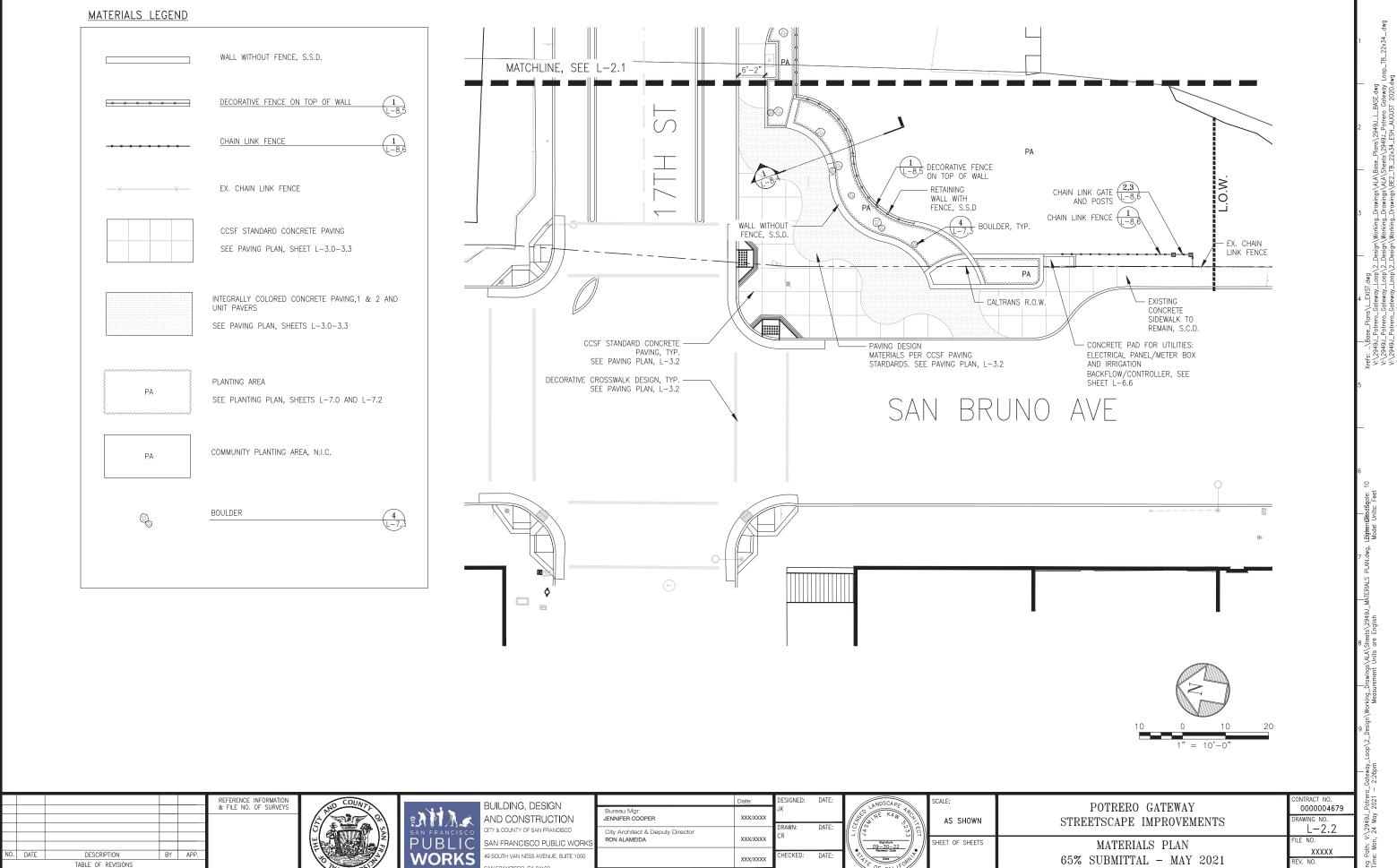
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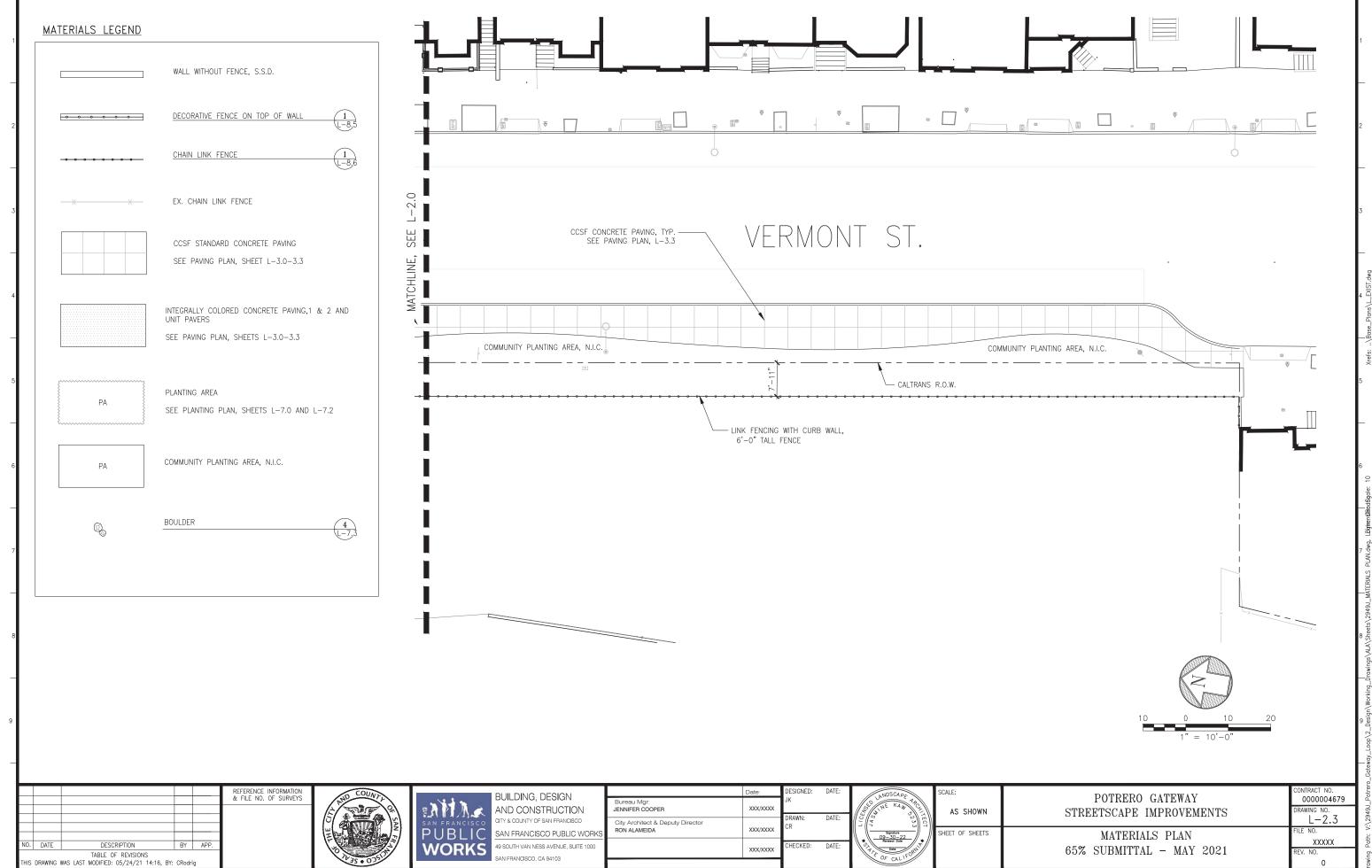
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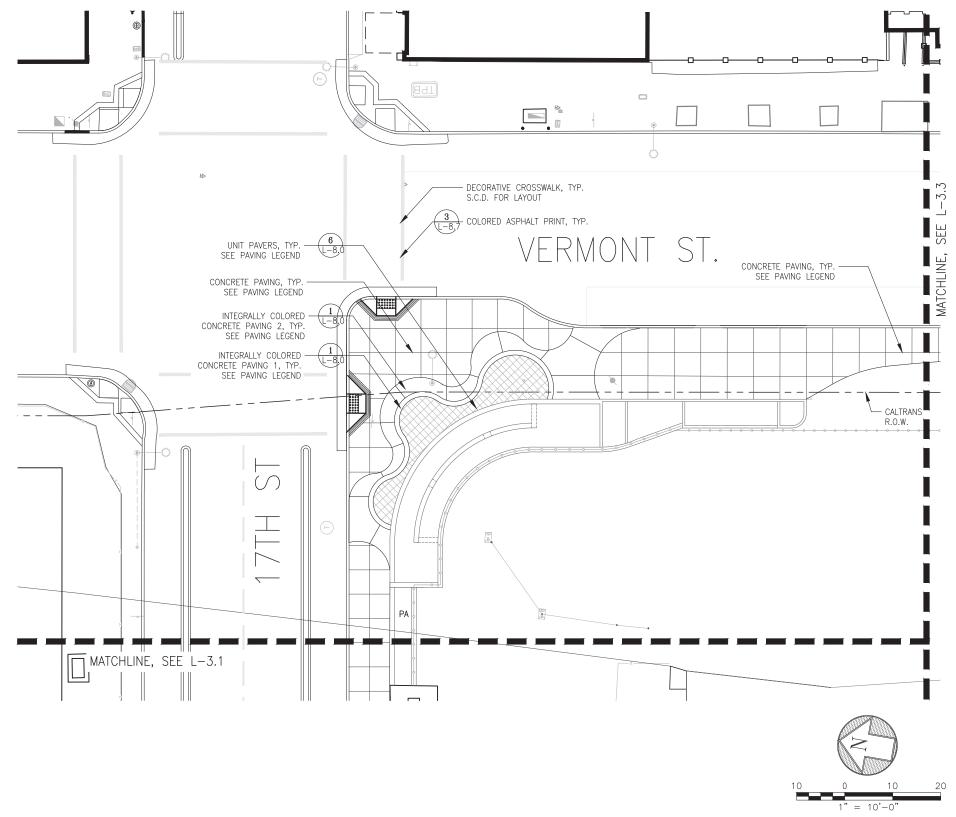
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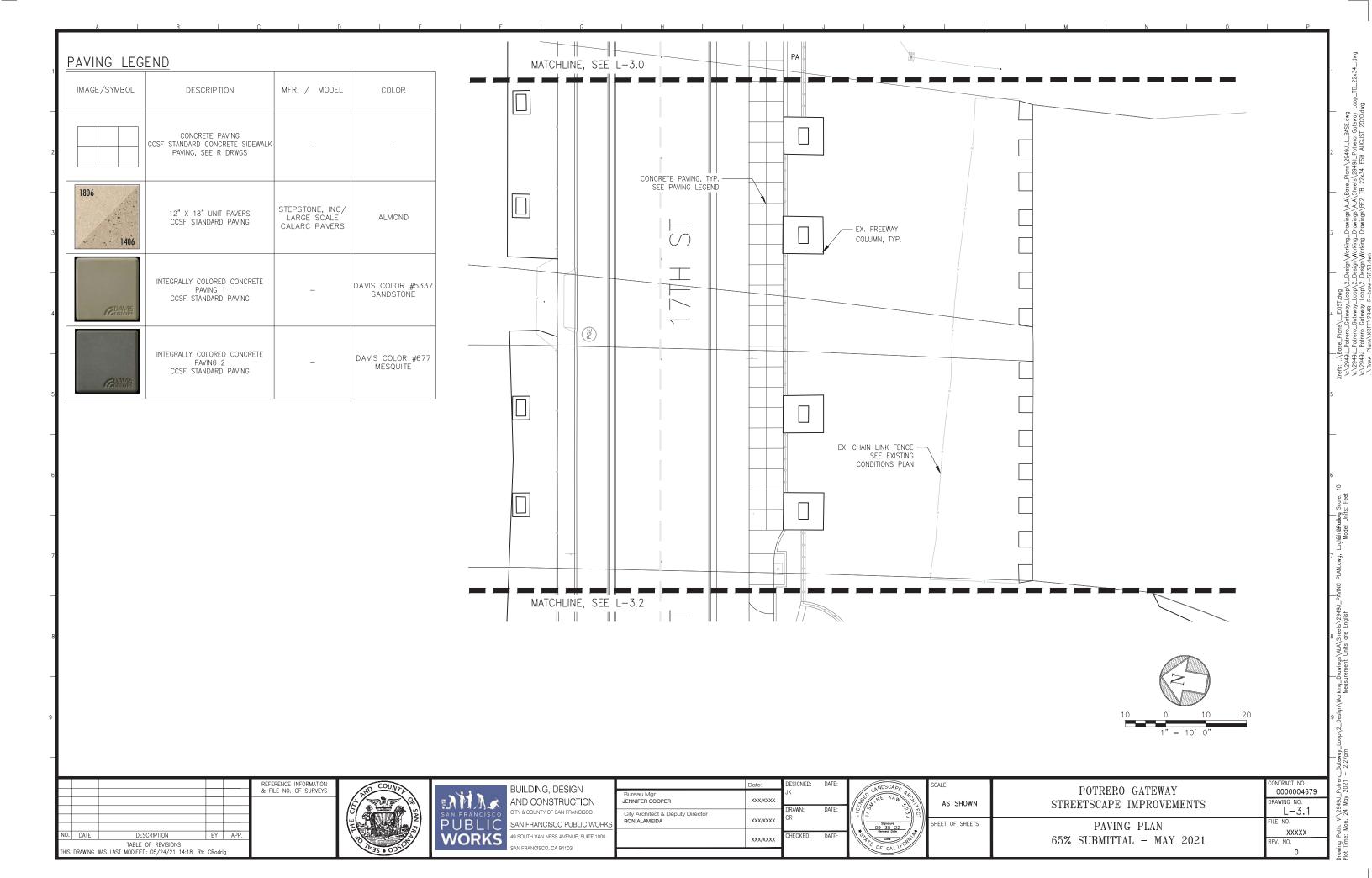
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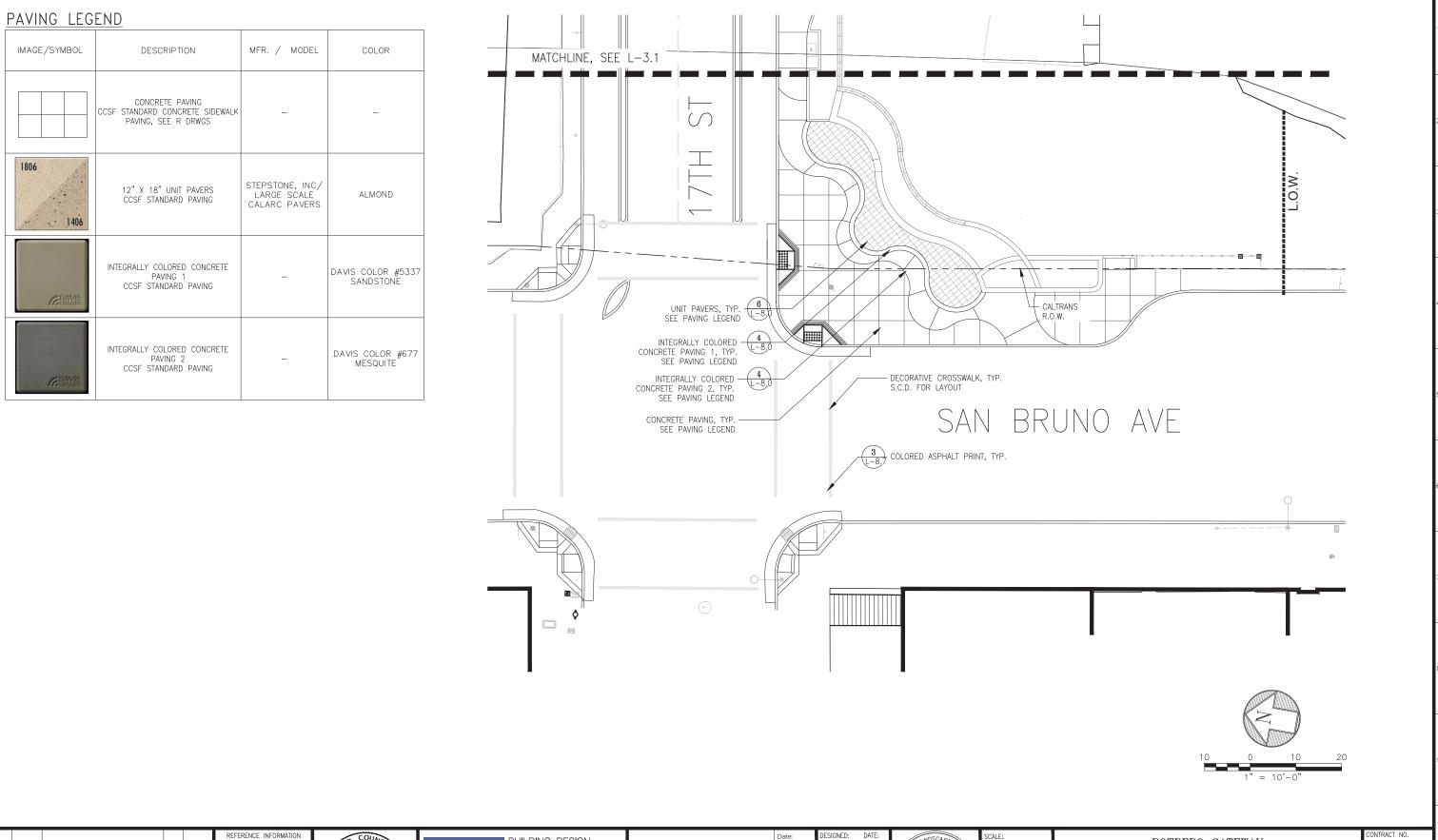
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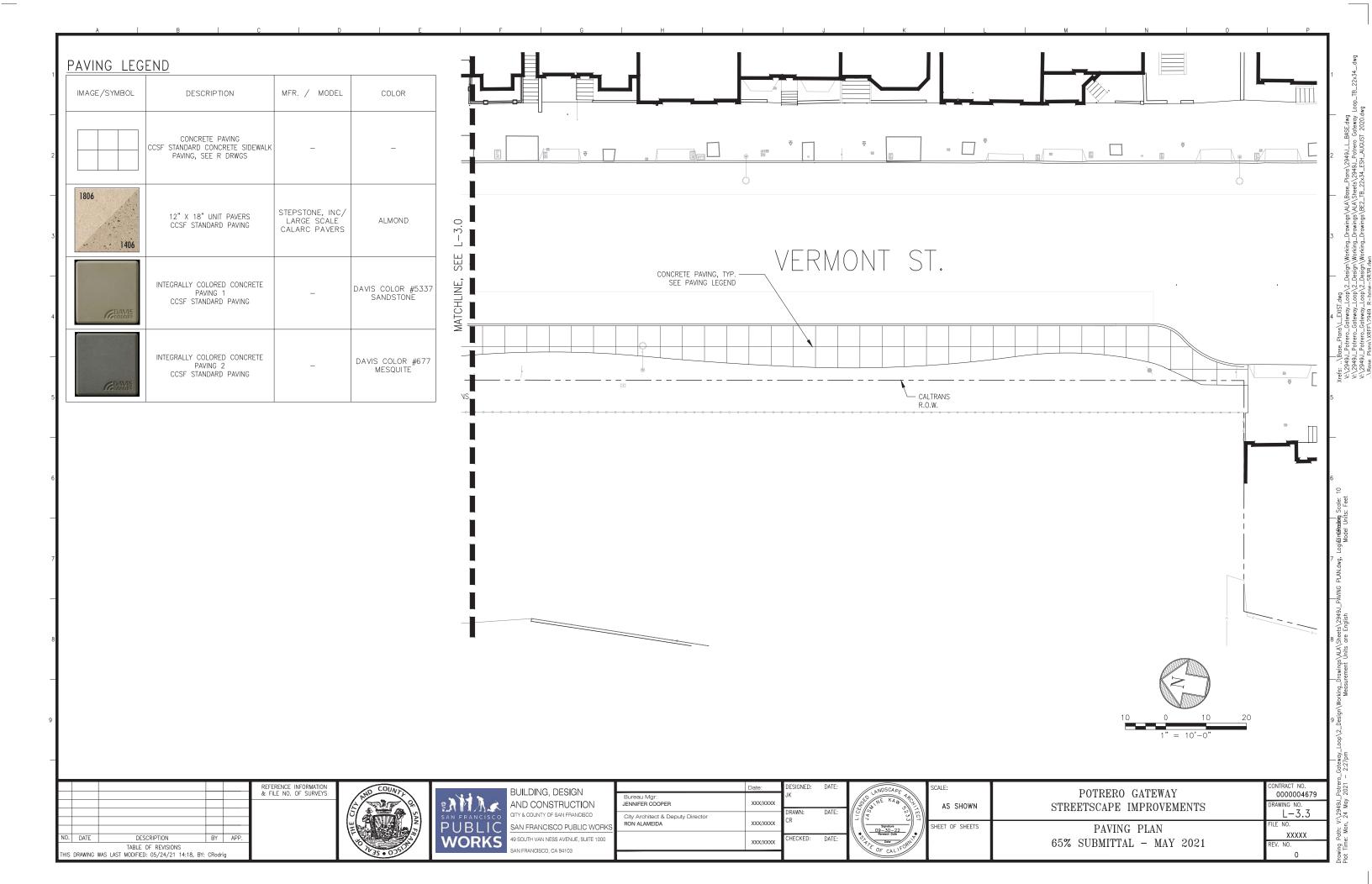
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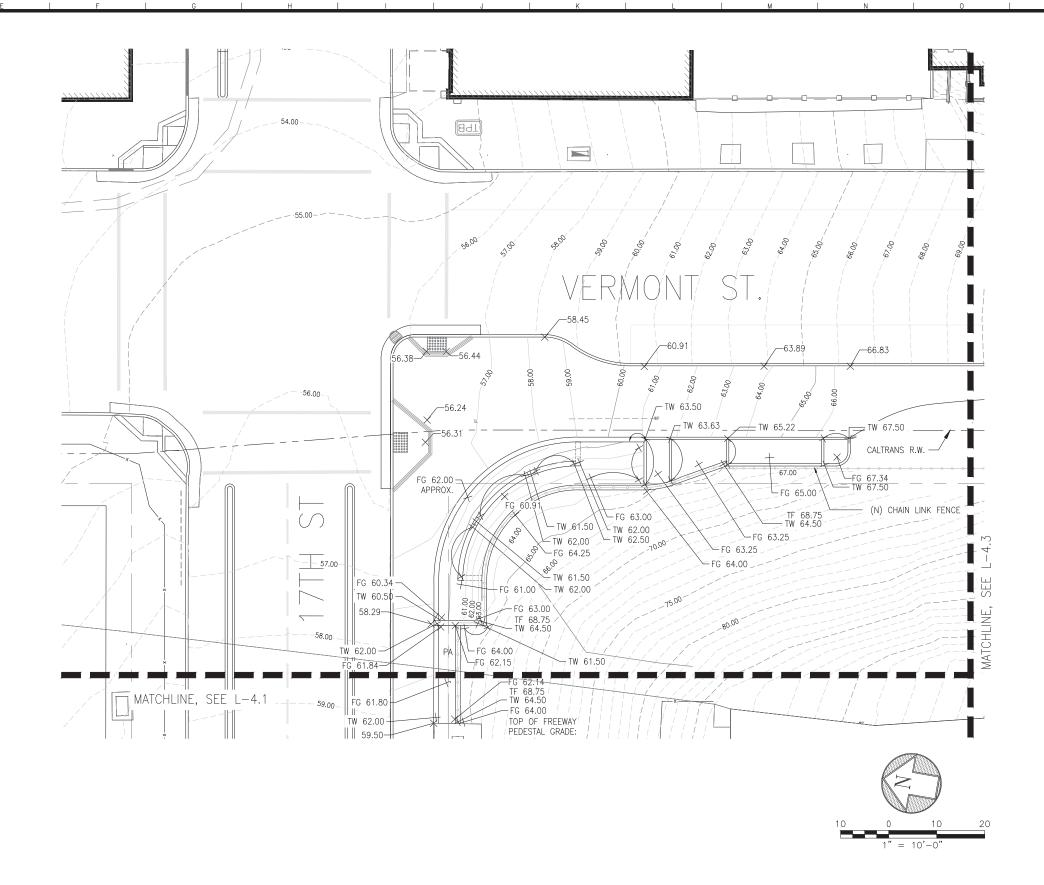


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NOTES:

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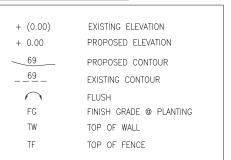
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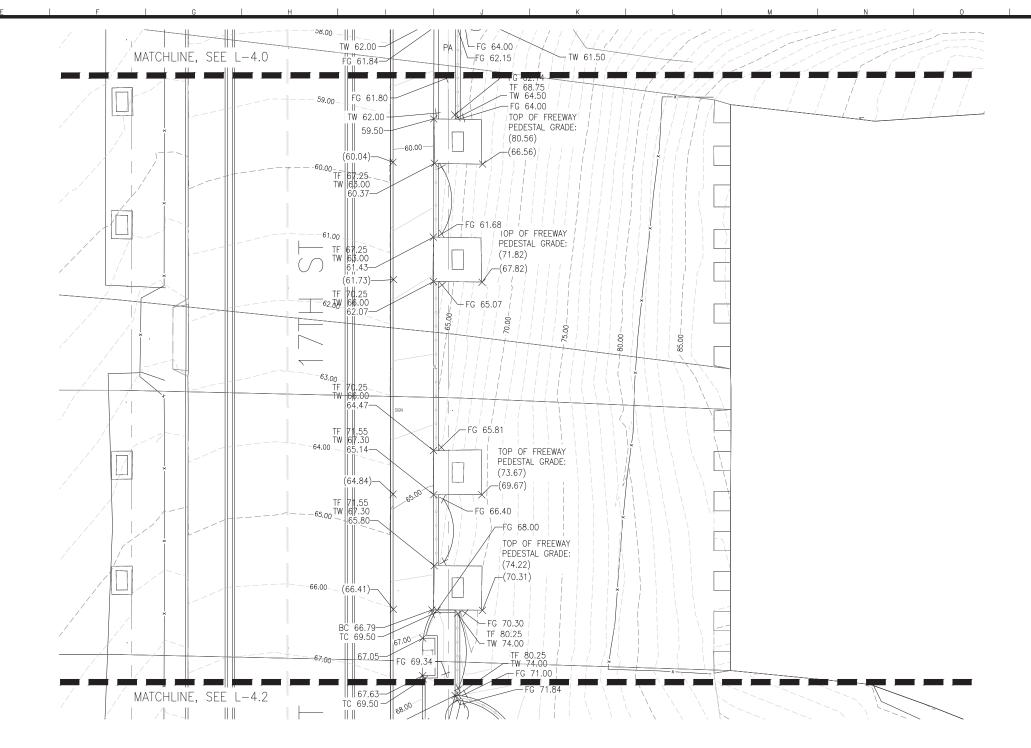
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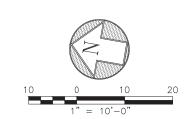
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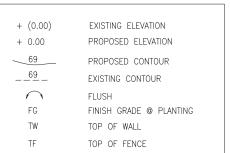
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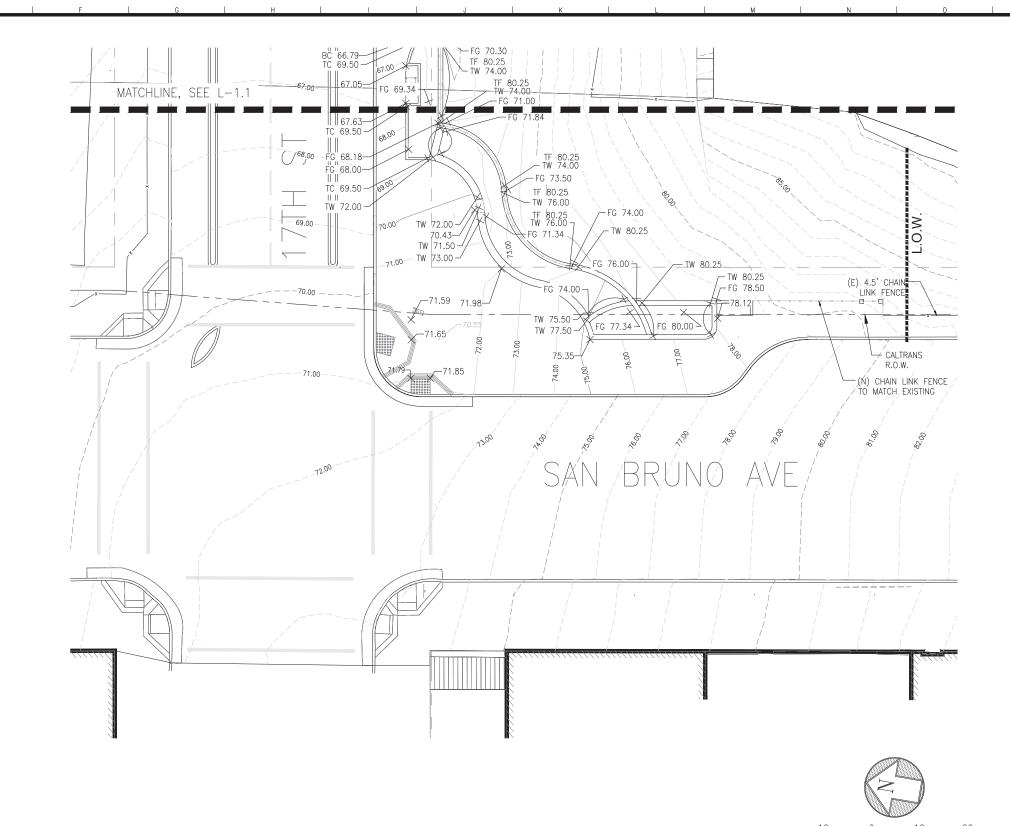
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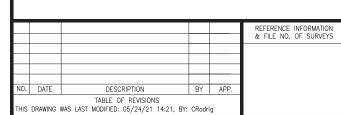
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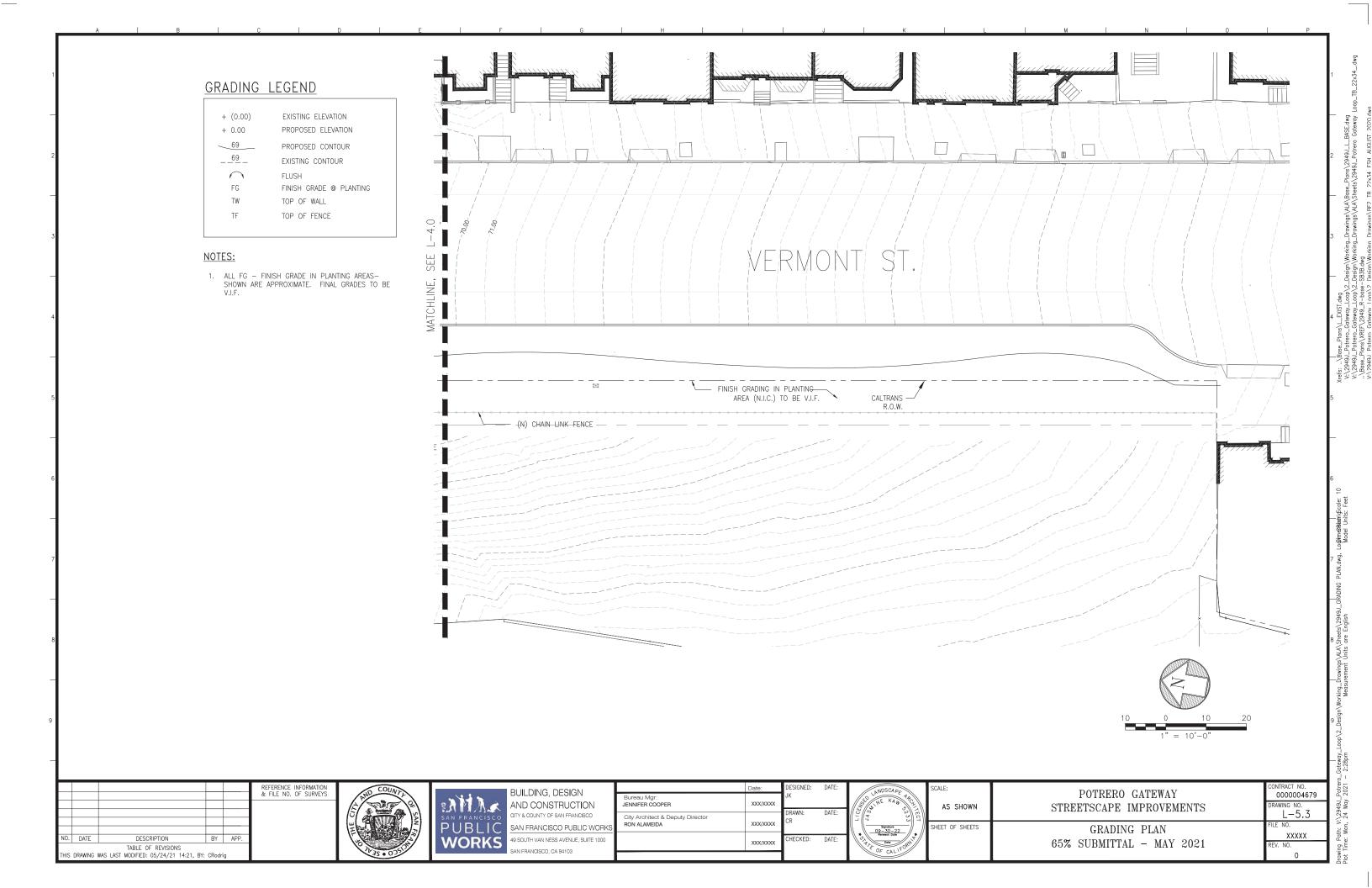
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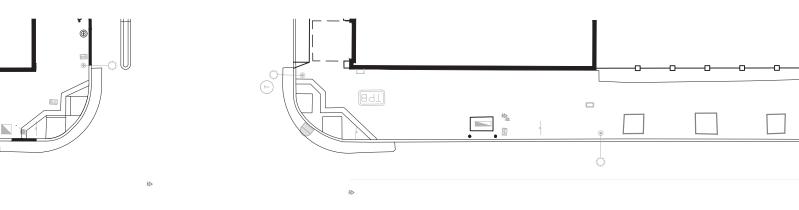
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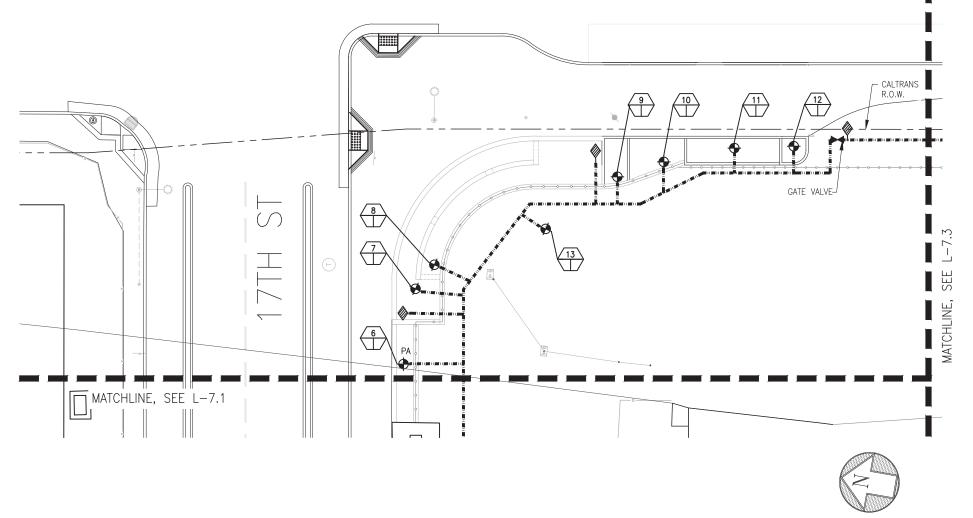
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<u>NOTES</u>

- NEW IRRIGATION METER AND BACKFLOW UNIT ARE EXPECTED FOR IRRIGATED AREAS.
 SEE SHEET L-7.4 FOR IRRIGATION LEGEND AND NOTES

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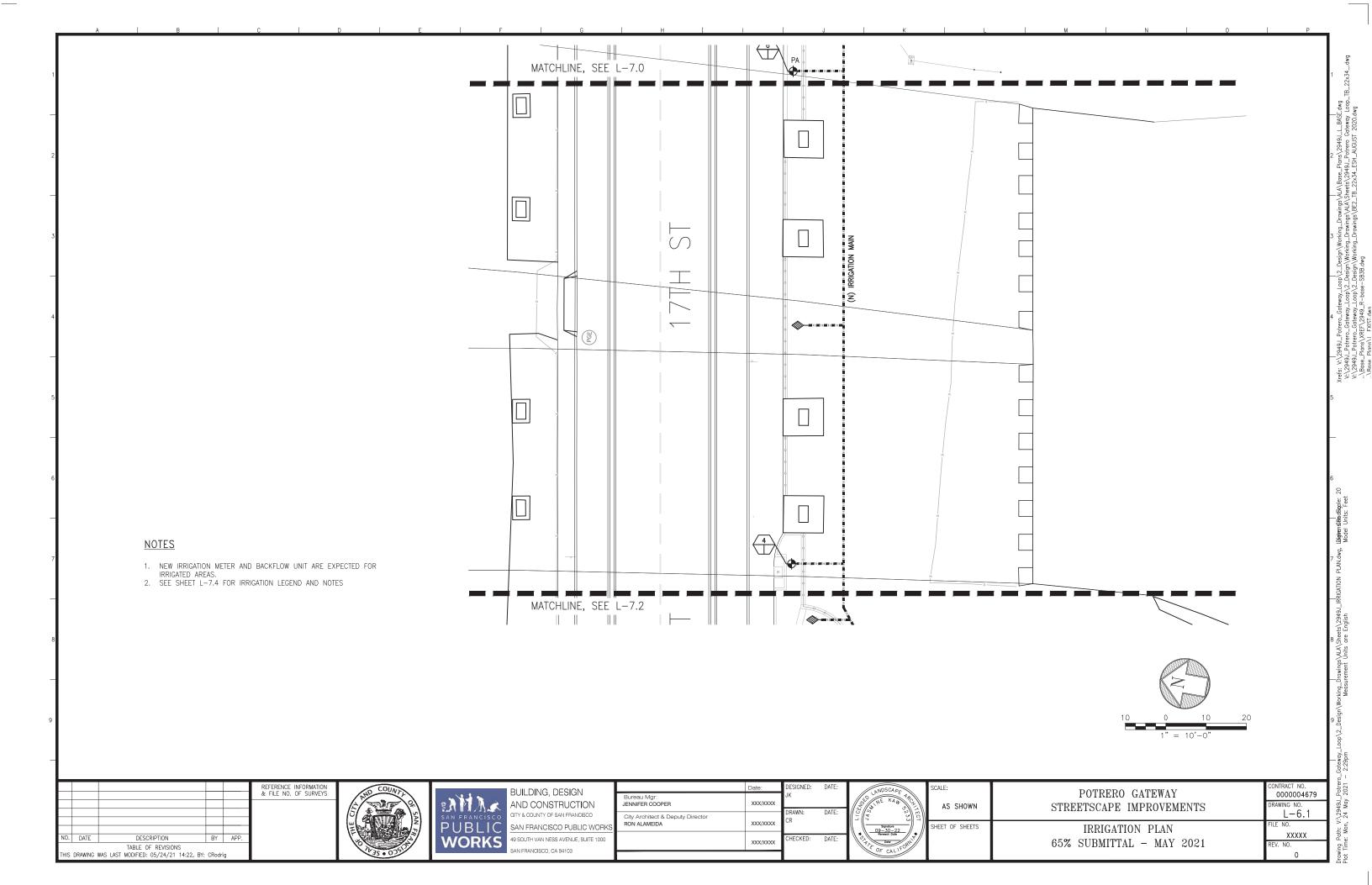
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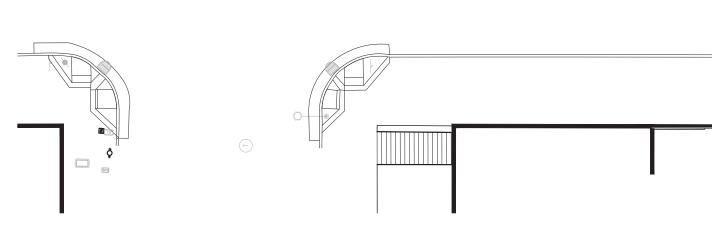
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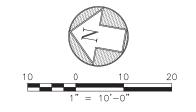
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- NEW IRRIGATION METER AND BACKFLOW UNIT ARE EXPECTED FOR IRRIGATED AREAS.
 SEE SHEET L-7.4 FOR IRRIGATION LEGEND AND NOTES





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ELECTRICAL PANEL AND — METER FOR LIGHTING AND SITE POWER, SEE

POINT OF CONNECTION TO WATER MAIN,

SAN BRUNO AVE

- CALTRANS R.O.W.

STRE	POTRERO GATEWAY EETSCAPE IMPROVEMENTS	
	IRRIGATION PLAN	
65%	SUBMITTAL - MAY 2021	

-BACKFLOW AND SOLAR POWERED IRRIGATION CONTROLLER IN ONE BACKFLOW CAGE — LOCKABLE

BFP SHOWN DIAGRAMMATICALLY, EXACT LOCATION V.I.F. AND TO BE HOUSED WITH IRRIGATION CONTROLLER, SEE NOTE ABOVE

CONTRACT NO. 0000004679
DRAWING NO.
L-6.2
FILE NO.
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heets\2949u_IRRICATION PLANdwg, LibajatensStandbogle: 20

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Wodel Units: Feet

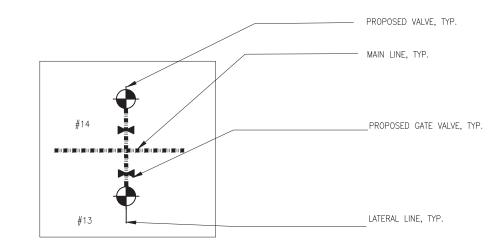
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IRRIGA	TION HEAI	D LEGEND*
SYMBOL	MANUF.	DESCRIPTION
	HUNTER	PRS40, 12"H SPRAY BODY W/ MP ROTATOR NOZZLES: XX
•	HUNTER	CS-530 STRIP PATTERN NOZZLE 4X28
. 4	HUNTER	ES-515 STRIP PATERN NOZZLE 4X14
×	HUNTER	TREE BUBBLER, PROVIDE 2 PER TREE

^{*}SPRAY HEADS AND BUBBLERS NOT SHOWN IN 65% DRWGS. ABOVE SPEC TO BE CONFIRMED AT FUTURE SUBMITTAL.

IRRIGATION LEGEND

IKKKO/KITOK EE	<u> </u>					
SYMBOL	MANUF.	DESCRIPTION	EQUAL			
		PROPOSED 2" IRRIGATION MAIN LINE				
		PROPOSED LATERAL LINE				
		IRRIGATION LINE SLEEVING, SCHEDULE 40 PVC, PIPE & FITTINGS, SIZE FOR EASE OF INSERTION AND REMOVAL OF WIRES. PROVIDE 2XDIA. SIZE SLEEVING; PIPES IN PAVED AREAS & CONC				
H	NIBCO	PROPOSED GATE VALVE: T-113-IRR, 1" (SIZE PER LINE) ALSO SEE TYPICAL GATE VALVE LAYOUT DIAGRAM BELOW	PESB SERIES			
•	SUPERIOR	PROPOSED SOLENOID VALVE: SUPERIOR MODEL 950-DWPRS (DIRTY WATER, PRESSURE REDUCING) W/REMOTE CONTROL	GRISWOLD			
	BUCKNER	PROPOSED QUICK COUPLER: 1", 14-LT-RCL	RAINBIRD 44NP			
C	DIG	LEIT XRC 16 SOLAR POWERED CONTROLLER, SEE DETAIL ON SHEET L-7.6	NKE			
WM	WM	NEW WATER METER, SEE SPECS				
BFP	BUCKNER	NEW BACKFLOW PREVENTER, BUCKNER SUPERIOR, 1" SEE SPECS				
/ And	STATION NUMBER					
1-1 12 128	<u> </u>	GPM				
	SIZE					



TYPICAL REMOTE CONTROL VALVE WITH GATE VALVE DIAGRAM

NOTE: PROVIDE GATE VALVE AT EACH REMOTE CONTROL VALVE AS SHOWN

IRRIGATION NOTES

- 1. THESE NOTES AND IRRIGATION PLAN GOVERN IRRIGATION INSTALLATION ONLY AND ARE NOT INTENDED TO GOVERN
- 2. THE IRRIGATION SYSTEM IS DESIGNED TO WORK WITH NEW POINT OF CONNECTION, NEW BACKFLOW, NEW CONTROLLER AND NEW MAIN LINE. THE CONTRACTOR IS RESPONSIBLE FOR THE INSTALLATION OF AN IRRIGATION SYSTEM THAT PROVIDES 100% COMPLETE AND APPROPRIATE COVERAGE IN ALL PLANTING AREAS. THE WORK OF THE CONTRACTOR INCLUDES ADJUSTMENTS TO THE EXISTING IRRIGATION SYSTEM TO REMAIN; INCLUDING QUANTITIES OF PIPING, HEADS, NOZZLES AND OTHER EQUIPMENT, AS NECESSARY TO ASSURE COMPLETE COVERAGE
- 3. VERIFY LOCATIONS OF THE NEW POINT OF CONNECTION IN FIELD. ANY DISCREPANCY BETWEEN THE DRAWINGS AND FIELD CONDITIONS WHICH AFFECTS IRRIGATION LAYOUT SHALL BE BROUGHT TO THE ATTENTION OF THE CITY REPRESENTATIVE PRIOR TO THE INSTALLATION OF ANY PIPE.
- 4. THE IRRIGATION DRAWINGS ARE DIAGRAMMATIC AND DO NOT SHOW EXACT LOCATIONS OF PIPING, VALVES OR CONTROL LINES. INSTALL THESE ITEMS PARALLEL TO AND AS CLOSELY AS POSSIBLE TO CURBS, HEADERS OR PAVING EDGES, AND TO BE PLACED IN PLANTING AREAS AS MUCH AS POSSIBLE. EXACT LOCATIONS TO BE FIELD APPROVED BY CITY
- 5. IRRIGATION HEAD LOCATIONS ARE INDICATED AS ACCURATELY AS POSSIBLE ON THE DRAWINGS TO REFLECT DESIRED COVERAGE. INSTALL HEADS AS INDICATED BY THE CENTERLINE OF THE SYMBOL AND IN ACCORDANCE WITH INSTALLATION DETAILS. MINOR LAYOUT DEVIATIONS ARE ALLOWED PROVIDED THAT HEAD TO HEAD COVERAGE IS
- 6. COORDINATE WORK WITH ALL APPROPRIATE TRADES FOR THE INSTALLATION OF PIPING, PIPE SLEEVES AND ELECTRICAL CONDUIT.
- INSTALL ALL PIPING AND CONTROL WIRING UNDER PAVING IN SCH 40 GALVANIZED SLEEVES OF SUFFICIENT SIZE TO ALLOW FOR EASY INSERTION AND REMOVAL.
- 8. INSTALL EACH GATE & SOLENOID VALVE, AND QUICK COUPLER IN SEPARATE VALVE BOXES PER IRRIGATION DETAILS.
- 9. POP-UP SPRINKLER HEIGHT: INSTALL 12" IN GROUND COVER AND SHRUB AREAS.
- 10. THE IRRIGATION SYSTEM HAS BEEN DESIGNED TO WORK WITH THE EXISTING WATER PRESSURE AND MAXIMUM GPM OF XX. NOTIFY THE CITY REPRESENTATIVE IMMEDIATELY IF THERE ARE ANY DISCREPANCIES.
- 11. SEE IRRIGATION SPECS FOR ADDITIONAL INFORMATION AND REQUIREMENTS.

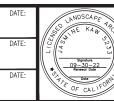
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BUILDING, DESIGN
AND CONSTRUCTION
CITY & COUNTY OF SAN FRANCISCO
SAN FRANCISCO PUBLIC WORKS
49 SOUTH VAN NESS AVENUE, SUITE 1000
SAN FRANCISCO, CA 94103

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	Bureau Mgr: JENNIFER COOPER	XXX/XXXX	JK
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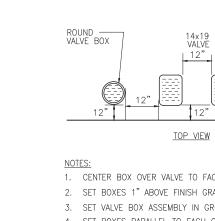


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Signature 09-30-22 Renewal Date	Sł
Date OF CAL IFORME	

AS SHOWN	POTRERO GATEWAY STREETSCAPE IMPROVEMENTS
SHEET OF SHEETS	IRRIGATION LEGENDS AND NOTES

65% SUBMITTAL - MAY 2021

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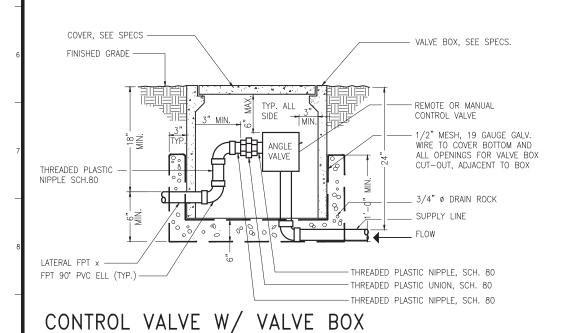


14x19 RECTANGULAR VALVE BOX ——— BRICK SUPPORT (3 PER BOX) 3/4" Ø DRAIN ROCK 1/2" MESH, 19 GAUGE GALV. WIRE TO COVER EDGE OF LAWN, WALK, BOTTOM AND VALVE BOX CUTOUTS FENCE, CURB, ETC.

VALVE BOX COVER AND HEAD

- 1. CENTER BOX OVER VALVE TO FACILITATE SERVICING VALVE.
- 2. SET BOXES 1" ABOVE FINISH GRADE OR MULCH COVER IN GROUND COVER/SHRUB AREA AND FLUSH WITH FINISH GRADE IN TURF AREA.
- SET VALVE BOX ASSEMBLY IN GROUND COVER/SHRUB AREA WHERE POSSIBLE. INSTALL IN LAWN AREA ONLY IF GROUND COVER/SHRUB AREA DOES NOT EXIST ADJACENT TO LAWN.
- SET BOXES PARALLEL TO EACH OTHER AND PERPENDICULAR TO EDGE.
- AVOID HEAVILY COMPACTING SOIL AROUND VALVE BOX EDGES TO PREVENT COLLAPSE AND DEFORMATION OF VALVE BOX SIDES.
- 6. VALVE BOXES SHALL HAVE BOLT DOWN LIDS WITH BOLTS INSTALLED.

VALVE BOX INSTALLATION DETAIL



FINISHED GRADE

NATIVE SOIL BED

PIPE SLEEVE WHERE

SUPPLY LINE, REFER

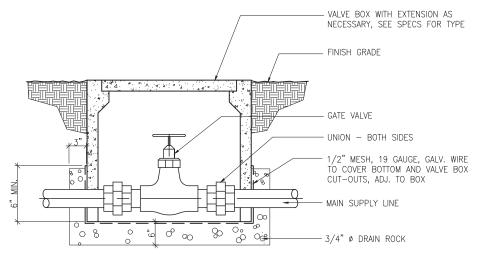
TO IRRIGATION PLAN,

SAND BED AND COVER

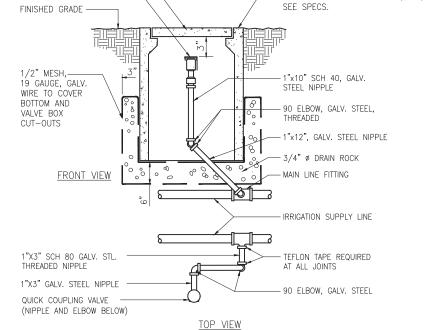
OR SELECTED NATIVE SOIL

FOR SIZE

AS SPECIFIED



GATE VALVE AND VALVE BOX



QUICK COUPLING VALVE W/ VALVE BOX

FINISH GRADE @ MULCH

COVER, SEE SPECS -QUICK COUPLING VALVE

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IRRIGATION SUPPLY LINE





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S	49 SOUTH VAN NESS AVENUE, SUITE 100
_	SAN FRANCISCO, CA 94103

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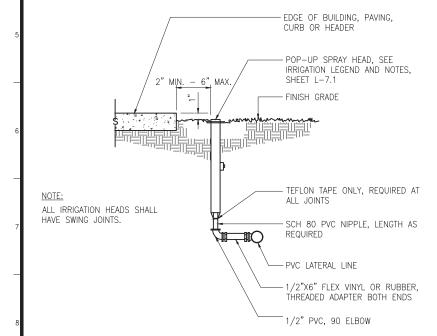
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	IRRIGATION	DETAILS
65%	SUBMITTAL	- MAY 2021

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ROUND CONCRETE VALVE BOX, 6"ø,

BUBBLER INSTALLATION @ TREE PIT

CONTRACTOR TO PROVIDE (2) BUBBLERS PER TREE.



POP-UP SPRAY HEAD

NOTE:

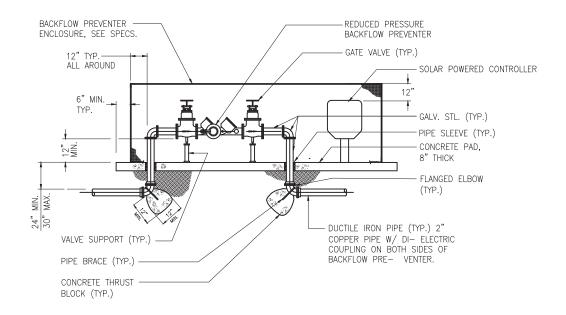
DIG LEIT XRC 16 Station Solar Irrigation Controller with Radio Capability

- Solar powered 16 station irrigation controller with radio capabilities
- 4 programs with 3 start times per day
- Budgeting, rain delay, manual run, history reporting, and radio communication capabilities
- Compatible with LEIT Multi-Pro Wireless Handset

The LEIT XRC is a permanent solution in areas where there is no available AC power, utilizing only the controller that provide a cost-effective solution for all types of irrigation applications. Features include fou independent programs with three start times for each valve, password protection, monthly budgeting up to 200 percent, up to 99 day rain stop with automatic restart, manual run capabilities, status reports showing

The LEIT XRC also has radio capabilities which allow it to connect and communicate wirelessly to DIG's LEIT Multi-Pro Wireless Handset. The two-way communication allows for the user to program and control the LEIT XRC from up to 800

SOLAR POWERED CONTROLLER



BACKFLOW PREVENTER INSTALLATION

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BUILDING, DESIGN AND CONSTRUCTION CITY & COUNTY OF SAN FRANCISCO SAN FRANCISCO PUBLIC WORKS 49 SOUTH VAN NESS AVENUE, SUITE 1000

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POTRERO GATEWAY STREETSCAPE IMPROVEMENTS IRRIGATION DETAILS 65% SUBMITTAL - MAY 2021

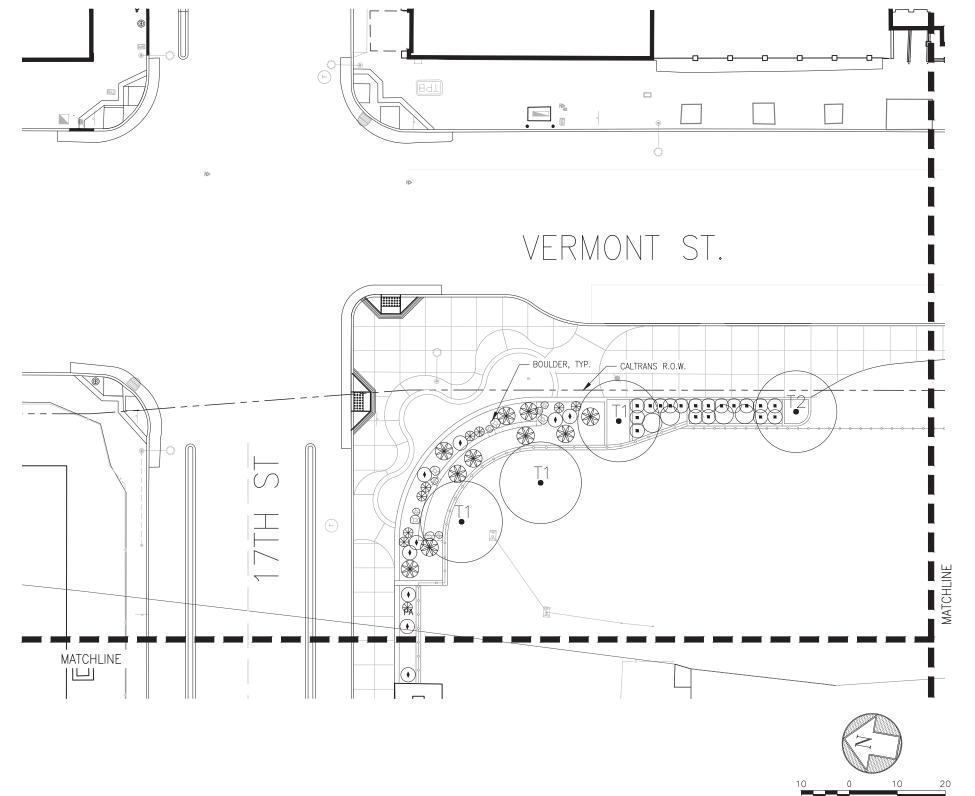
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TIFIC COMMON SPACING SIZE WATER USE					
	TIFIC 1E	COMMON NAME	SPACING	SIZE	WATER USE

SYMBOL	QTY.	SCIENTIFIC NAME	COMMON NAME	SPACING	SIZE	WATER USE
TREES						
Ţ1	5	T.B.D.	T.B.D.	AS SHOWN AND TO BE V.I.F.	48" BOX	T.B.D.
T ₂	5	T.B.D.	T.B.D.	AS SHOWN AND TO BE V.I.F.	36" BOX	T.B.D.
SHRUBS						
*	15	AGAVE WEBERI	WEBER AGAVE	AS SHOWN AND TO BE V.I.F.	5 GALLON	LOW
_	10	CHONDROPETALUM TECTORUM	CAPE RUSH	AS SHOWN AND TO BE V.I.F.	5 GALLON	LOW
	15	JUNCUS PATENS & CVS.	SPREADING RUSH	AS SHOWN AND TO BE V.I.F.	5 GALLON	LOW
N.	20	CISTANTHE GRANDIFLORA	ROCK PURSLANE/ CALANDRINIA	AS SHOWN AND TO BE V.I.F.	5 GALLON	LOW
	10	BULBINE FRUTESCENS 'ORANGE'	ORANGE STALKED BULBINE	AS SHOWN AND TO BE V.I.F.	5 GALLON	LOW
•	10	KNIPHOFIA UVARIA 'FLAMENCO'	FLAMENCO RED HOT POKER	AS SHOWN AND TO BE V.I.F.	5 GALLON	LOW
	10	SENECIO SERPENS	BLUE CHALKSTICKS	AS SHOWN AND TO BE V.I.F.	5 GALLON	LOW
₩	5	DUDLEYA PULVERULENTA	CHALK LIVEFOREVER	AS SHOWN AND TO BE V.I.F.	5 GALLON	LOW
	5	SEDUM NUSSBAUMERIANUM	COPPERTONE STONECROP	AS SHOWN AND TO BE V.I.F.	5 GALLON	LOW
	5	SEDUM PALMERI	PALMER'S SEDUM	AS SHOWN AND TO BE	5 GALLON	LOW

PLANTING LEGEND



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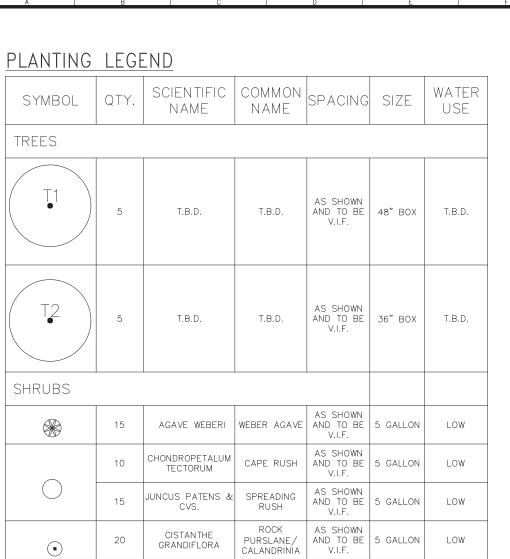
POTRERO GATEWAY STREETSCAPE IMPROVEMENTS
PLANTING PLAN 65% SUBMITTAL – MAY 2021

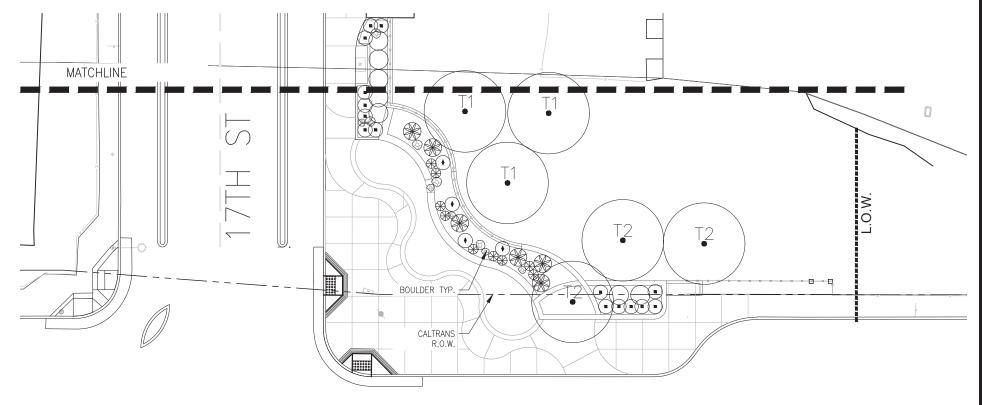
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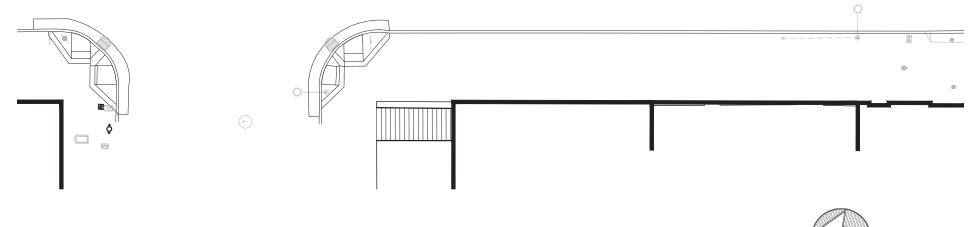
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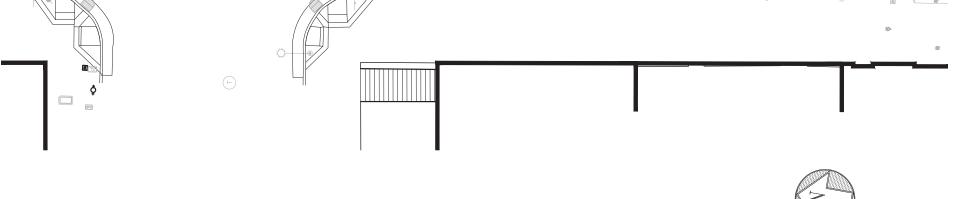
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SAN BRUNO AVE





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BULBINE

FRUTESCENS

'ORANGE'

'FLAMENCO'

SENECIO SERPENS

DUDLEYA

PULVERULENTA

SEDUM

SEDUM PALMERI

KNIPHOFIA UVARIA FLAMENCO RED

NUSSBAUMERIANUM STONECROP

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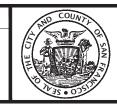
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BUILDING, DESIGN AND CONSTRUCTION CITY & COUNTY OF SAN FRANCISCO PUBLIC **WORKS** SAN FRANCISCO PUBLIC W 49 SOUTH VAN NESS AVENUE, SUITE

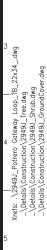
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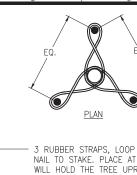
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SHOWN	POTRERO GATEWAY STREETSCAPE IMPROVEMENTS
SHEETS	PLANTING PLAN
	65% SUBMITTAL - MAY 2021

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- 3 RUBBER STRAPS, LOOP AT TRUNK & NAIL TO STAKE. PLACE AT HEIGHT THAT WILL HOLD THE TREE UPRIGHT AND PREVENT EXCESSIVE WIND WHIPPING

3 – 2"Ø x 12' POLE, SEE SPECS, STAKE LOCATE OUTSIDE ROOTBALL

ELEVATE ROOT CROWN 2" AS SHOWN

3" MIN. BARK MUCH, SEE SPECS

PROVIDE WATERING BERM

AMENDED BACKFILL MIX (SEE SPECS)

UNAMENDED (E) TOP SOIL.OR BACKFILL

FERTILIZER TABLETS (SEE SPECS)

N.T.S.

<u>SECTION</u>

- 1. SET BACKFILL MIX TO MIN. 80% COMPACTION BELOW ROOT BALL.
- 2. FINAL STAKING TO BE APPROVED BY CITY REPRESENTATIVE.
- 3. STAKING NOT REQUIRED FOR MULTI-TRUNK TREES.

GROUND COVER PLANTING

SCALE: N.T.S.

GROUND COVER PLANT, TYP.

EDGE OF PLANTING AREA, SEE

FOR GROUND COVER SPACING DISTANCE "X", SEE PLANT LIST.

4" MIN. FROM EDGE OF PLANTING AREA

LAYOUT PLANS

NOTE:

- ELEVATE ROOT CROWN 1" ABOVE FINISH GRADE OR WATERING BERM WHERE OCCURS 3" MIN. COMPACTED BARK MULCH, SEE SPECS WATERING BERM AMENDED BACKFILL MIX, SEE SPECS FERTILIZER TABLETS, SEE SPECS. - PLANT PIT, SEE SPECS FOR SIZE ROOTBALL

BOULDERS TO BE BURIED 1/4 TO 1/3 DEPTH IN THE GROUND, SEE SPECS. -FINISH GRADE AT PLANTING COMPACT SUBGRADE TO 95% DIRECTLY BENEATH BOULDER

CLEARANCE FROM TREE TRUNKS, WHERE OCCURS

EXACT LOCATION OF BOULDERS TO BE FIELD APPROVED BY CITY REPRESENTATIVE

SHRUB PLANTING

1) TREE PLANTING & STAKING

STAKING TO BE I

N.T.S

4 BOULDER SCALE:

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t	AND CONSTRUCTION
	CITY & COUNTY OF SAN FRANCISCO
	SAN FRANCISCO PUBLIC WORKS
3	49 SOUTH VAN NESS AVENUE, SUITE 1000
	SAN FRANCISCO, CA 94103

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Bureau Mgr: JENNIFER COOPER	XXX/XXXX	JK	
City Architect & Deputy Director RON ALAMEIDA	XXX/XXXX	DRAWN: CR	DATE:
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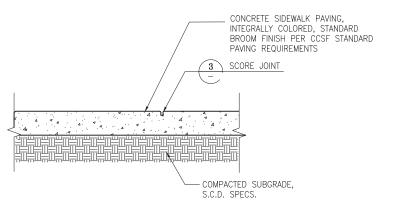
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POTRERO GATEWAY STREETSCAPE IMPROVEMENTS PLANTING DETAILS 65% SUBMITTAL - MAY 2021

0000004679 RAWING NO.
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SAW CUT EDGE TO OCCUR AT — EX JOINT, TO BE STRAIGHT, CLEAN & CUT TO FULL DEPTH.

CONTRACTOR TO CONFIRM

CONDITION PRIOR TO

EXISTING PAVEMENT

CONC. SLURRY BACKFILL ALL VOIDS EXPOSED DURING

OR OTHERWISE, TYP.

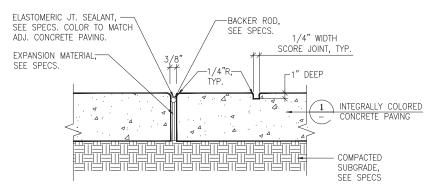
STARTING WORK.

UNDISTURBED SUBGRADE.

DEMOLITION

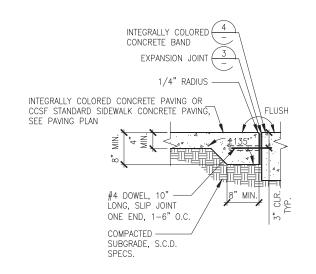
NOTES:

1. SEE SPECS FOR ADDITIONAL INFORMATION
2. SEE R-ROADWAY DRWGS FOR CCSF STANDARD CONCRETE SIDEWALK PAVING.



PLACE EXPANSION JOINTS WHERE PAVING ABUTS ALL VERTICAL SURFACES.

2. HANDTOOL ALL JOINTS.



INTEGRALLY COLORED CONCRETE PAVING

3 EXPANSION

EDGE

1 CONCRETE

COMPACTED

SUBGRADE,

SEE SPCS.

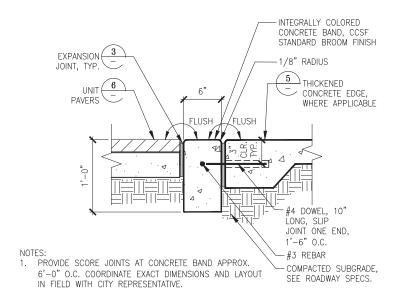
PAVING

PROFILE

EQ. TO TWICE THE DEPTH OF

THICKENED CONCRETE

(3) EXPANSION & SCORE JOINT



THICKENED CONCRETE EDGE

1" = 1'-0" ENLARGEMENT N.T.S. SANDED GROUT JOINT 1/8" MAX., SEE SPECS -12" X 18" X 2-1/2" UNIT PAVERS, SEE SPECS -MORTAR SETTING BED - CONCRETE BASE-STANDARD CONCRETE SIDEWALK, SIM., S.C.D SANDED integrally colored GROUT CONCRETE BAND JOINT THICKENED CONCRETE EDGE, WHERE APPLICABLE FLUSH

NOTES:

1. SEE SPECIFICATIONS FOR ADDITIONAL INFORMATION ON UNIT PAVERS CONTRACTOR TO PROVIDE MOCKUP FOR CITY REPRESENTATIVE'S APPROVAL,

3. SEE DETAIL X/L.X.X FOR TYPICAL PAVING LAYOUT, NOT INCLUDED IN 65% SET, SEE PAVING PLAN FOR 65%.

2 NEW CONC. PAVING @ EXIST. CONC. PAVING

SEE PAVING DRAWINGS FOR

LIMIT OF NEW PAVEMENT, VIF

4 INTEGRALLY COLORED CONCRETE BAND SCALE: XX'' = X'-X''

(C)	UNIT	PAVERS
101		

SCALE: XX'' = X'-X''

65% SUBMITTAL - MAY 2021

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RKS	49 SOUTH VAN NESS AVENUE, SUITE 1000
1113	SAN FRANCISCO, CA 94103

	Date:	DESIGNED:	DATE:
Bureau Mgr: JENNIFER COOPER	XXX/XXXX	JK	
City Architect & Deputy Director RON ALAMEIDA	XXX/XXXX	DRAWN: DATE: CR	
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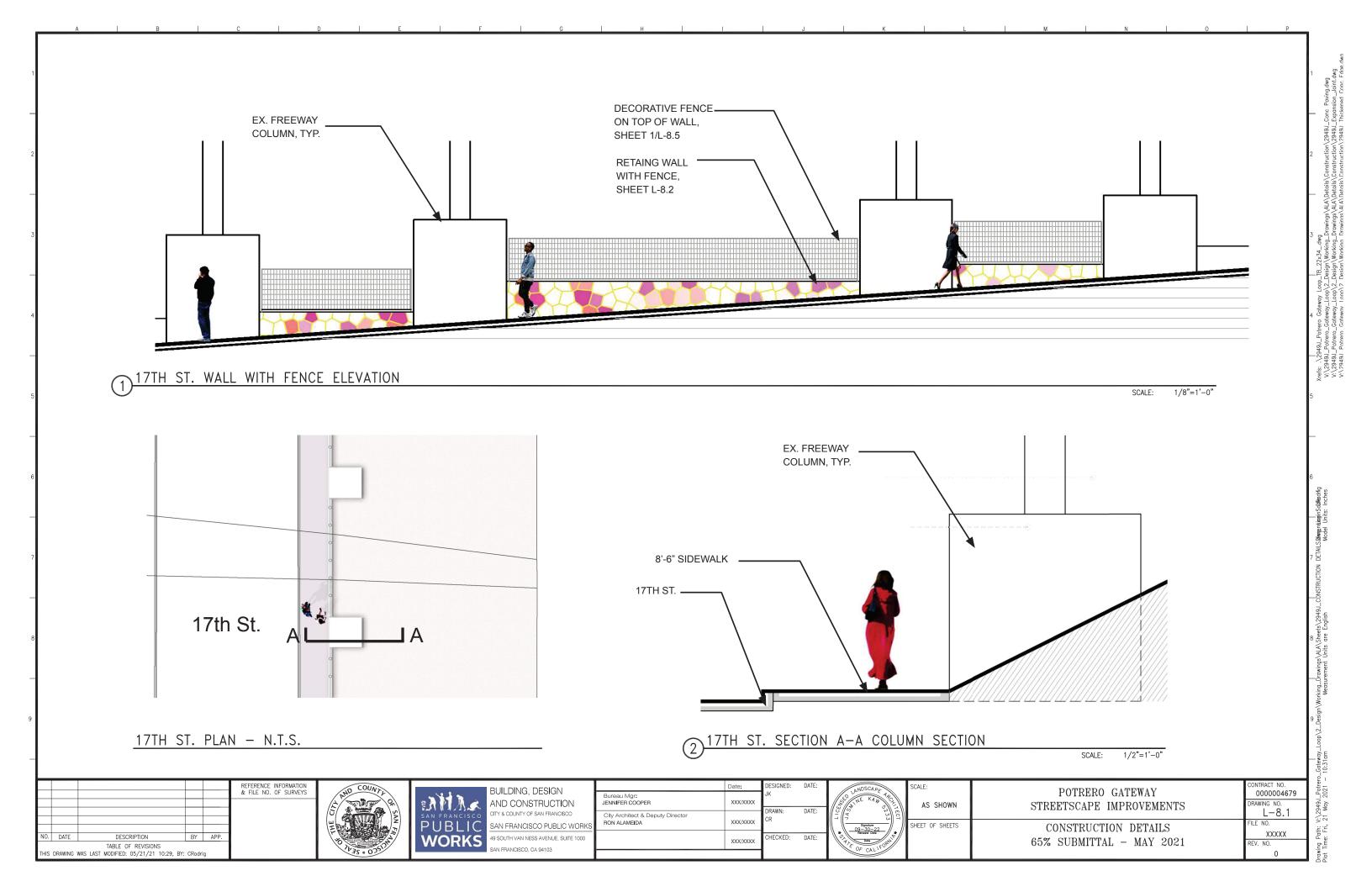
SHOWN	POTRERO GATEWAY STREETSCAPE IMPROVEMENTS
OF SHEETS	CONSTRUCTION DETAILS

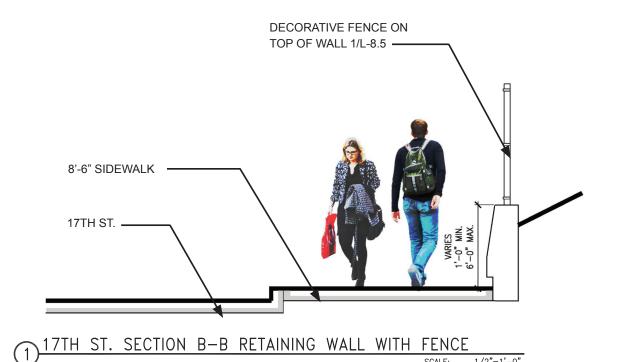
0000004679
DRAWING NO.
L-8.0
FILE NO.
XXXXX
REV. NO.

-#4 DOWEL, 10" LONG, SLIP JOINT ONE END, 1'-6" O.C., TYP.

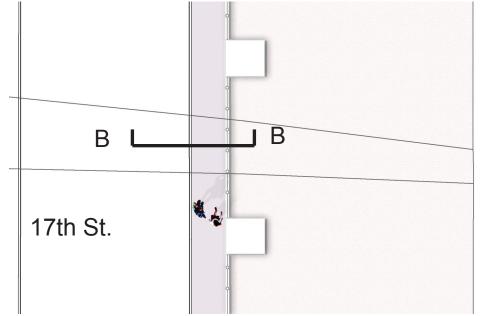
- COMPACTED SUBGRADE,

S.C.D. SPECS.





PUBLIC ART AT TYPICAL WALL FACE T.B.D.





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

5.6					
(2) 17TH	ST.	RETAINING	WALL	WITH	FENCE
(/ / / / / / / / / / / / / / / / / / /					

SEE LAYOUT LAN

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

					REFERENCE INFORMATION & FILE NO. OF SURVEYS	AND COUNTY
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17TH ST. PLAN - N.T.S.



SAN FRANCISCO PUBLIC WORKS	BUILDING, DESIGN AND CONSTRUCTIO CITY & COUNTY OF SAN FRANCISC SAN FRANCISCO PUBLIC 49 SOUTH VAN NESS AVENUE, SU SAN FRANCISCO, CA 94103
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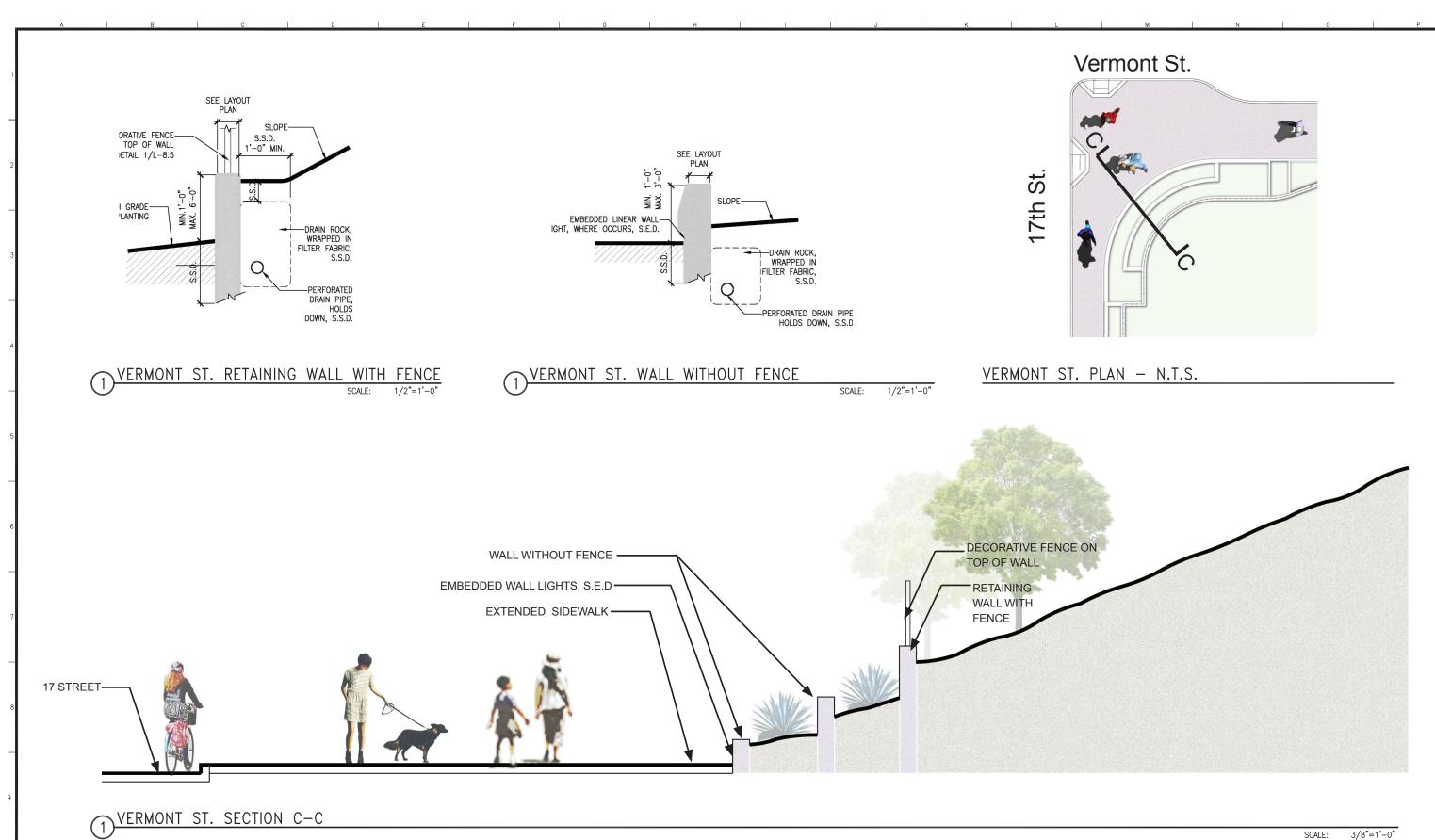
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-FINISH GRADE AT SLOPE, SEE GRADING PLAN

POTRERO GATEWAY	CONTRACT NO. 0000004679
STREETSCAPE IMPROVEMENTS	DRAWING NO. L-8.2
CONSTRUCTION DETAILS	FILE NO.
65% SUBMITTAL - MAY 2021	REV. NO.



REFERENCE INFORMATION & FILE NO. OF SURVEYS BUILDING, DESIGN POTRERO GATEWAY 0000004679 Bureau Mgr: JENNIFER COOPER AND CONSTRUCTION XXX/XXX RAWING NO AS SHOWN STREETSCAPE IMPROVEMENTS L-8.3 City Architect & Deputy Director RON ALAMEIDA XXX/XXXX **PUBLIC** SHEET OF SHEETS CONSTRUCTION DETAILS XXXXX DESCRIPTION **WORKS** XXX/XXXX 65% SUBMITTAL - MAY 2021 TABLE OF REVISIONS
HIS DRAWING WAS LAST MODIFIED: 05/21/21 10:29, BY: CRodrig

ο rawing Path: V:\2949J_Potrero_Gateway_Loop\2_Design\Working_Drawings\ALA\Sheets\2949J_CONSTRUCTION DETAILS.**Glam**ganski Not Time: Fri, 21 May 2021 — 10:32am Model U

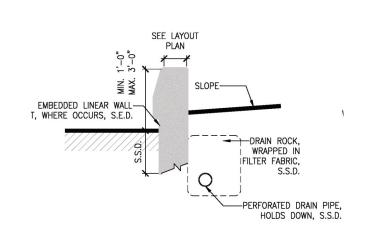
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\\2843_Potero_Getewoy_Loop\2.25x34_moy

ORATIVE FENCE
TOP OF WALL
JETAIL 1/L-8.5

I GRADE
LANTING

DRAIN ROCK,
WRAPPED IN
FILTER FABRIC,
S.S.D.

PERFORATED
DRAIN PIPE,
HOLDS
DOWN, S.S.D.



SAN BRUNO AVE. RETAINING WALL WITH FENCE

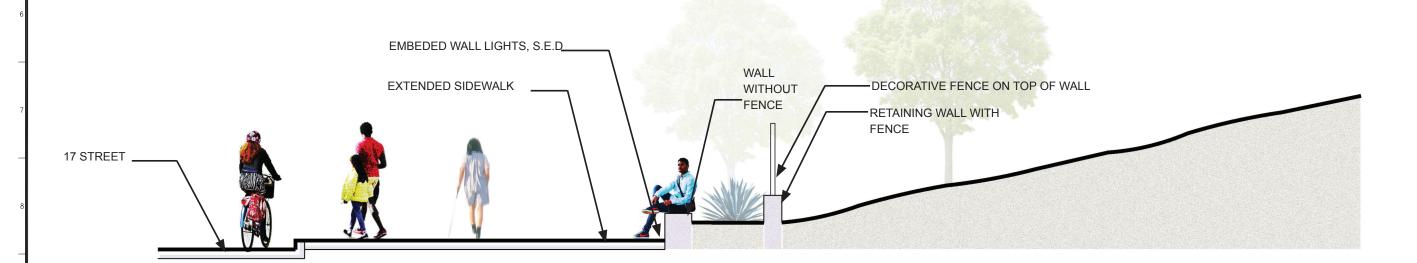
SCALE: 1/2"=1'-0"

SAN BRUNO AVE. WALL WITHOUT FENCE

SCALE: 1/2"=1'-0

SAN BRUNO AVE. PLAN - N.T.S.

17th St.



SAN BRUNO AVE. SECTION D-D

SCALE: 3/8"=1'-0"

REFERENCE INFORMATION & FILE NO. OF SURVEYS BUILDING, DESIGN POTRERO GATEWAY 0000004679 Bureau Mgr: JENNIFER COOPER AND CONSTRUCTION XXX/XXX RAWING NO AS SHOWN STREETSCAPE IMPROVEMENTS L-8.4 City Architect & Deputy Director RON ALAMEIDA XXX/XXX SHEET OF SHEETS CONSTRUCTION DETAILS XXXXX DESCRIPTION **WORKS** XXX/XXX 65% SUBMITTAL - MAY 2021 TABLE OF REVISIONS
HIS DRAWING WAS LAST MODIFIED: 05/21/21 10:29, BY: CRodrig

Source (Cateway Inon) Desira Working Drawings N. Schedels (20149) CONSTRUCTION DETAILS (Barners hands of Cateway Inon) V. 20149) Potrers (Cateway Inon) V. Desira Working Drawings N. A. Schedels (Cateway Inon) V. Desira Working Drawings N. Schedels (Cateway Inon) V. Schedels (Cateway Inon) V

Robust panels with a modern ornamental look

2" x 2" or 3" x 3" with Universal brackets

(±1 1/2" slot allowance).

2 x 4 GA (5.72 mm)

1 x 8 GA (4.88 mm)

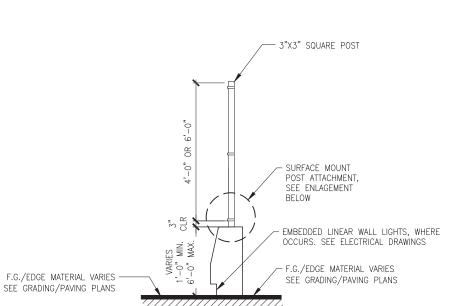
8° 3" (2511 mm)

Choose between two styles: square or square with ball

Versatile brackets adapt to many special applications.

1.97" x 7 7/8" (50 mm x 200 mm), center to center

4', 6', 8' (stackable)(1230 mm, 1830 mm, 2430 mm)



DECORATIVE FENCE ON TOP OF WALL

FRONT ELEVATION

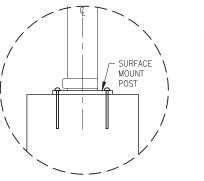
VARIES - 8'-3" IS STANDARD BUT MAY BE TIGHTER AT CURVED SEGMENTS, T.B.D

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



DECORATIVE FENCE PANEL

IMAGE - OMEGA ELITE DOUBLE WIRE FENCE



TYPICAL SECTION

X5 ENLARGEMENT

PLATE DETAIL

		REFERENCE INFORMATION
		& FILE NO. OF SURVEYS

TABLE OF REVISIONS
THIS DRAWING WAS LAST MODIFIED: 05/21/21 11:19, BY: CRodrig



SCALE:

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3"X3" SQUARE POST

OMEGA ELITE DOUBLE WIRE FENCE, SEE

PICTURES AND SPECS AT RIGHT

-EMBEDDED LINEAR WALL LIGHTS,

WHERE OCCURS. SEE ELECTRICAL

F.G. AT

)	SAN FRANCISCO PUBLIC WORKS	1

	Date:	DESIGNED:	DATE:
Bureau Mgr: JENNIFER COOPER	XXX/XXXX	JK	
City Architect & Deputy Director RON ALAMEIDA	xxx/xxxx	DRAWN: CR	DATE:
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POTRERO GATEWAY STREETSCAPE IMPROVEMENTS CONSTRUCTION DETAILS 65% SUBMITTAL - MAY 2021

0000004679 RAWING NO. L-8.5 XXXXX

3 SURFACE MOUNT FENCE POST ATTACHMENT

PRODUCT	SPEC.

AESTHETIC

SQUARE POST

(SPECIAL PANEL FITTING)

HORIZONTAL WIRE

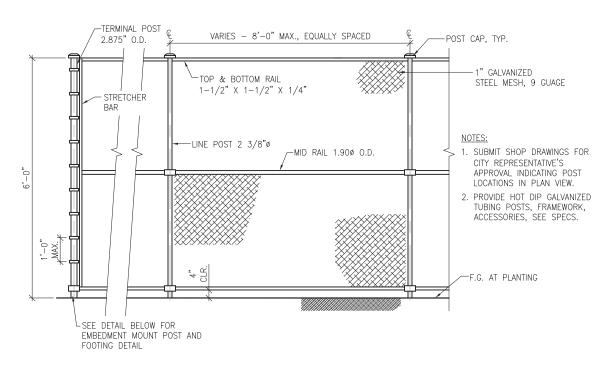
VERTICAL WIRE

MESH OPENING

STANDARD HEIGHT

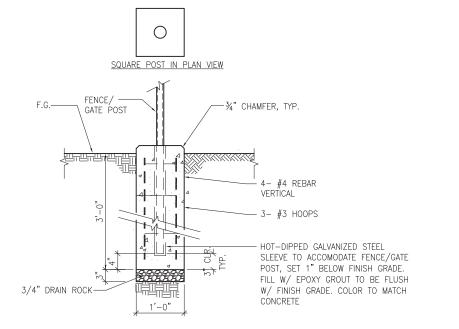
STANDARD LENGTH

CAPS



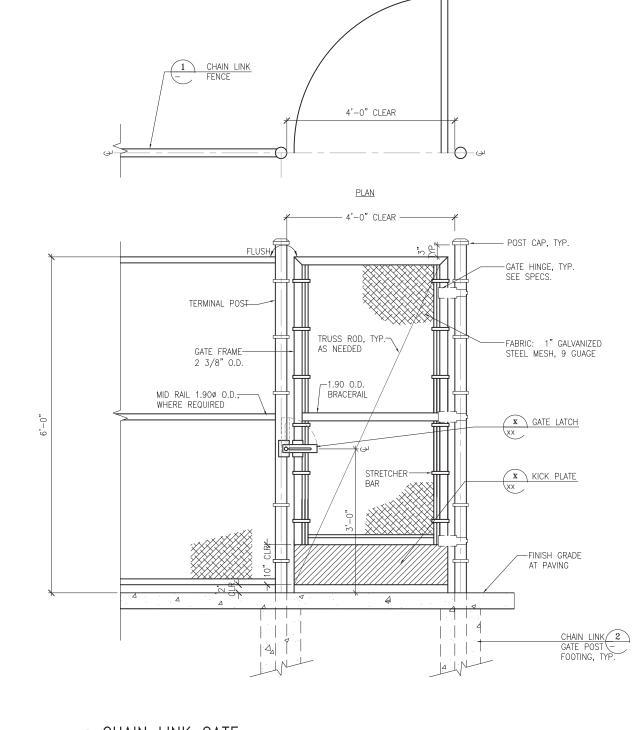
(1) CHAIN LINK FENCE

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



2 CHAIN LINK FENCE/GATE POST FOOTING

SCALE: 1" = 1'-0"



(3) CHAIN LINK GATE

SCALE: 1" =1'-0"

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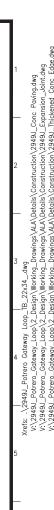
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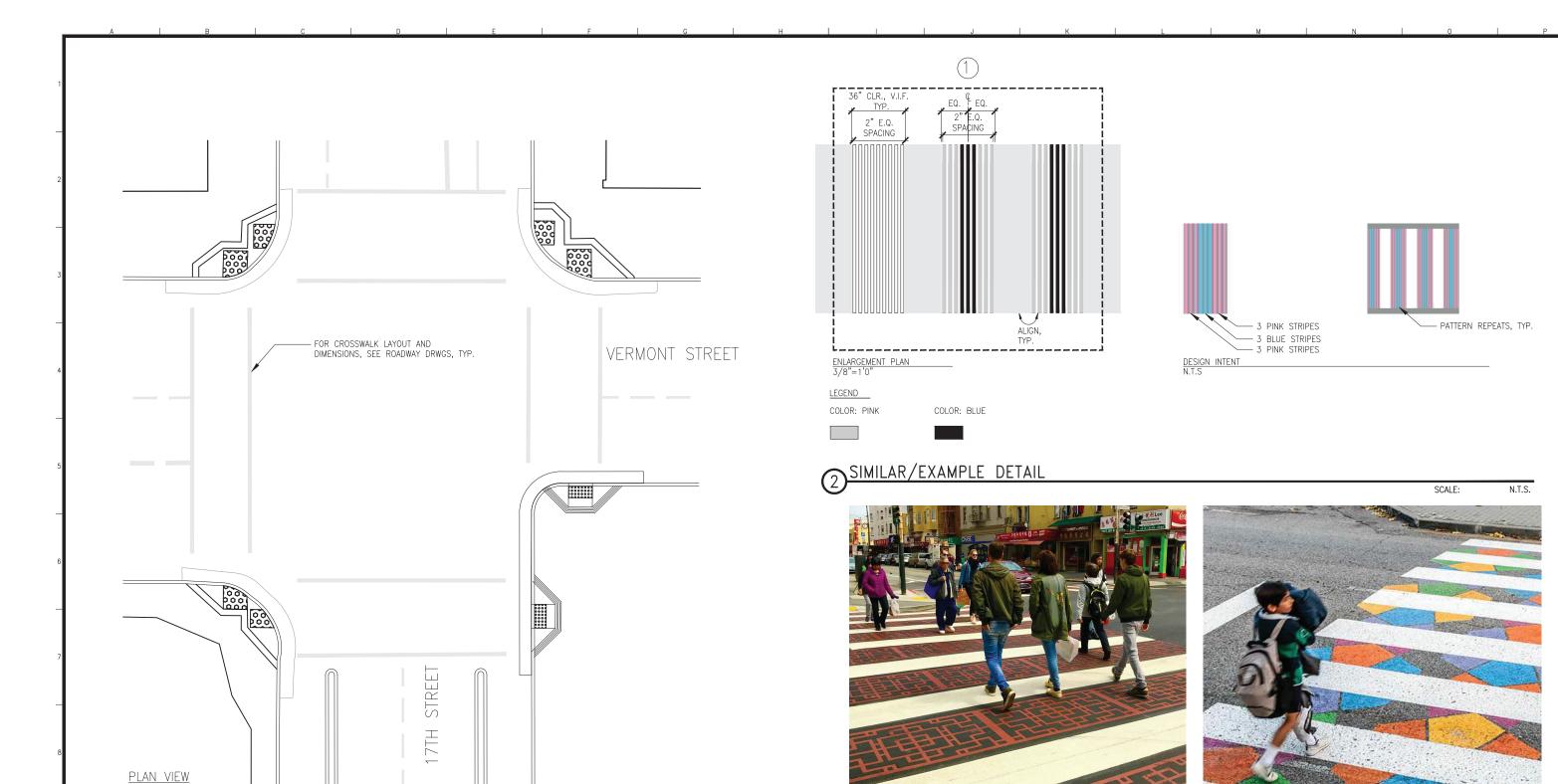
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POTRERO GATEWAY	CONTRACT NO. 000004679	
STREETSCAPE IMPROVEMENTS	DRAWING NO. L-8.6	
CONSTRUCTION DETAILS	FILE NO.	
65% SUBMITTAL - MAY 2021	XXXXX	
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DECORATIVE CROSSWALK - VERMONT ST. & SAN BRUNO AVE. SIMILAR SCALE: 1/8" = 1'-0" 3 COLORED ASPHALT PRINT, DESIGN T.B.D.

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	REFERENCE INFO & FILE NO. OF	ORMATION SURVEYS	BUILDING, DESIGN AND CONSTRUCTION CITY & COUNTY OF SAN FRANCISCO	Bureau Mgr: JENNIFER COOPER XXX/XX City Architect & Deputy Director	DRAWN: DATE	SCALE: SCALE: AS SHO	POTRERO GATEWAY STREETSCAPE IMPROVEMENTS
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ONTRACT NO. 000004679 DRAWING NO.
L-8.7

XXXXX

PROJECT DESCRIPTION

THE STRUCTURAL WORK SHOWN ON THESE DRAWINGS COMPRISES CONSTRUCTION OF NEW CONCRETE RETAINING WALLS AS PART OF THE POTRERO GATEWAY LOOP PROJECT LOCATED ALONG 17TH STREET BETWEEN VERMONT STREET AND SAN BRUNO AVENUE IN SAN FRANCISCO.

- THESE GENERAL NOTES APPLY THROUGHOUT ALL STRUCTURAL DRAWINGS EXCEPT WHERE SPECIFICALLY SHOWN BY NOTES ON DRAWINGS AND/OR DETAILS.
- THE CONTRACTOR SHALL VERIFY ALL DIMENSIONS AND CONDITIONS PRIOR TO THE START OF CONSTRUCTION OR FABRICATION. THE CONTRACTOR SHALL BE RESPONSIBLE FOR THE REVIEW AND COORDINATION OF ALL DRAWINGS AND SPECIFICATIONS PRIOR TO THE START OF CONSTRUCTION OR FABRICATION. ANY DISCREPANCIES, INCONSISTENCIES, OR UNSOUND CONDITIONS SHALL BE REPORTED TO THE ENGINEER FOR RESOLUTION PRIOR TO THE START OF ANY CONSTRUCTION OR FABRICATION SO THAT A CLARIFICATION CAN BE ISSUED.
- DIMENSIONS ARE TO CENTERLINE OF STEEL FRAMING, FACE OF CONCRETE SURFACES, FACE OF STUDS, FACE OF CONCRETE MASONRY UNITS (CMU), TOP OF SHEATHING, OR TOP OF STRUCTURAL SLAB. UNLESS OTHERWISE NOTED.
- DIMENSIONS IN THE STRUCTURAL DRAWINGS ARE AS NOTED. DO NOT USE DIMENSIONS SCALED FROM THE STRUCTURAL DRAWINGS.
- ALL DRAWINGS ARE CONSIDERED TO BE A PART OF THE CONTRACT DOCUMENTS. ANY WORK PERFORMED IN CONFLICT WITH THE CONTRACT DOCUMENTS OR ANY CODE REQUIREMENTS SHALL BE CORRECTED BY THE CONTRACTOR AT THEIR OWN EXPENSE AND AT NO EXPENSE TO THE CITY
- ALL TYPICAL DETAILS AND NOTES SHOWN ON DRAWINGS SHALL APPLY UNLESS OTHERWISE NOTED. TYPICAL DETAILS MAY NOT NECESSARILY BE INDICATED ON THE PLANS, BUT SHALL STILL APPLY AS SHOWN OR DESCRIBED IN THE DETAILS. WHERE TYPICAL DETAILS ARE NOTED ON THE DRAWINGS, THE SPECIFIED TYPICAL DETAIL SHALL BE USED. WHERE NO DETAILS ARE NOTED CONSTRUCTION SHALL BE AS SHOWN FOR SIMILAR WORK. THE CONTRACTOR SHALL SUBMIT ALL PROPOSED ALTERNATE TYPICAL DETAILS TO THOSE PROVIDED WITH RELATED CALCULATIONS TO THE ENGINEER FOR APPROVAL PRIOR TO SHOP DRAWING PRODUCTION AND FIELD USE.
- REFER TO OTHER DISCIPLINES' DRAWINGS AND COORDINATE INFORMATION RELATED TO THOSE OTHER DISCIPLINES' SYSTEMS FOR ITEMS SUCH AS:
 - FINISH FLOOR ELEVATIONS, FLOOR DEPRESSIONS, CHANGES IN ELEVATION, SLOPES, DRAINS, CURBS PADS INSERTS FTC.
 - SIZE AND LOCATION OF ALL NON-BEARING PARTITIONS.
 - SIZE AND LOCATION OF ALL WALL, FLOOR AND ROOF OPENINGS.
 - STAIR FRAMING, HANGERS AND DETAILS.
 - WATERPROOFING AND WATERSTOPS.
 - PIPE RUNS, SLEEVES, HANGERS, TRENCHES, WALL AND FLOOR OPENINGS, ETC., EXCEPT AS SHOWN OR NOTED.
 - ELECTRICAL CONDUIT RUNS, BOXES, OUTLETS, ETC., IN WALLS AND SLABS.
 - SIZE, LOCATION, ANCHORAGE AND BRACING FOR MECHANICAL, ELECTRICAL, AND PLUMBING
- FOR OPENINGS LARGER THAN 6"THAT ARE REQUIRED BUT NOT SHOWN ON THE STRUCTURAL DRAWINGS, THE CONTRACTOR SHALL SUBMIT DRAWINGS INDICATING OPENING LOCATIONS TO THE FNGINFER FOR APPROVAL PRIOR TO CONSTRUCTION.
- THE CONTRACT STRUCTURAL DRAWINGS AND SPECIFICATIONS REPRESENT THE FINISHED STRUCTURE. THEY DO NOT INDICATE THE MEANS AND/OR METHODS OF CONSTRUCTION. ALTHOUGH THE NEED FOR SHORING MAY SOMETIMES BE INDICATED IN THE STRUCTURAL DRAWINGS, IT IS THE CONTRACTOR'S SOLE RESPONSIBILITY TO DESIGN, PROVIDE, AND MAINTAIN TEMPORARY BRACING, SHORING, GUYING, OR OTHER TEMPORARY SUPPORT AS REQUIRED FOR THE PROTECTION OF LIFE AND PROPERTY DURING CONSTRUCTION.
- THE CONTRACTOR SHALL PROVIDE ALL NECESSARY PROTECTION OF ADJACENT STRUCTURES DURING CONSTRUCTION. THE CONTRACTOR SHALL BEAR ALL EXPENSE FOR REPAIR OR REPLACEMENT.
- WALLS SHALL BE ADEQUATELY BRACED DURING CONSTRUCTION UNTIL WALL DESIGN STRENGTH HAS BEEN ATTAINED AND ALL PERMANENT SUPPORTS ARE IN PLACE.
- THE USE OF NEW CONSTRUCTION FOR TEMPORARY SUPPORT OR STORAGE OF CONSTRUCTION EQUIPMENT OR MATERIALS IS RESTRICTED TO THE DESIGN CAPACITY OF THE NEW CONSTRUCTION AT THE TIME IT IS TO BE USED. EQUIPMENT OR MATERIALS SHALL BE PLACED SO AS NOT TO EXCEED THE CAPACITY OF INDIVIDUAL ELEMENTS. PROVIDE ADEQUATE, ENGINEERED SHORING AND/OR BRACING WHERE DESIGN CAPACITY IS NOT SUFFICIENT.

- 13. CONSTRUCTION LOADS SHALL NOT BE PLACED ON NEW CONCRETE CONSTRUCTION, INCLUDING CONCRETE FILL ON METAL DECK, FOR AT LEAST 7 DAYS AFTER CONCRETE PLACEMENT.
- 14. SPECIFICATIONS AND DETAILING OF ALL WATERPROOFING AND DRAINAGE ITEMS, ALTHOUGH SOMETIMES INDICATED ON THE STRUCTURAL DRAWINGS FOR GENERAL INFORMATION PURPOSES ONLY, ARE SOLELY THE DESIGN RESPONSIBILITY OF OTHERS.
- IT SHALL BE THE RESPONSIBILITY OF THE CONTRACTOR TO LOCATE ALL EXISTING PIPES, DUCTS, AND UTILITIES, WHETHER SHOWN HEREIN OR NOT, AND TO PROTECT THEM FROM DAMAGE. THE CONTRACTOR SHALL BEAR ALL EXPENSE FOR REPAIR OR REPLACEMENT.
- 16. ALL STRUCTURAL MEMBERS AND ELEMENTS SHOWN ON THE STRUCTURAL DRAWINGS ARE NEW UNLESS NOTED (E) FOR EXISTING CONDITIONS.

BASIS OF DESIGN

- ALL NEW CONSTRUCTION SHALL CONFORM TO THE 2019 SAN FRANCISCO BUILDING CODE (SFBC) WHICH COMPRISES THE 2019 CALIFORNIA BUILDING CODE (CBC) AND 2019 SAN FRANCISCO
- THE PUBLICATIONS LISTED BELOW ARE THE SPECIFICATIONS AND STANDARDS REFERENCED BY THE CODE AND ARE REFERENCED HEREIN BY THEIR BASIC DESIGNATION. IN THE CASE OF CONFLICTING REQUIREMENTS, THE CODE SHALL GOVERN.

ACI 301-16 AMERICAN CONCRETE INSTITUTE, "SPECIFICATIONS FOR STRUCTURAL CONCRETE'

ACI 318-14 AMERICAN CONCRETE INSTITUTE, "BUILDING CODE REQUIREMENTS FOR

AMERICAN SOCIETY OF CIVIL ENGINEERS, "MINIMUM DESIGN LOADS FOR BUILDINGS AND OTHER STRUCTURES"

STRUCTURAL DESIGN CRITERIA

SEISMIC DESIGN CRITERIA:

SITE CLASSIFICATION: OCCUPANCY CATEGORY PEAK GROUND ACCELERATION MAXIMUM SPECTRAL ACCELERATION: DESIGN SPECTRAL ACCELERATION: SITE COEFFICIENTS:

Ss = 1.5g, S1 = 0.6g Sms = 1.8g, Sm1 = NULL Sps = 1.2g, Sp1 = NULL $F_0 = 1.2$, $F_V = NULL$

FOUNDATIONS

- THE FOUNDATION DESIGN IS BASED UPON THE PROJECT GEOTECHNICAL MEMORANDUM. FOR POTRERO GATEWAY LOOP PROJECT FOR IN SAN FRANCISCO, CALIFORNIA". PREPARED BY THE DEPARTMENT OF PUBLIC WORKS BUREAU OF ENGINEERING, DATED 05/17/2021,
- DESIGN SOIL PARAMETERS:

ALLOWABLE BEARING PRESSURE:

PASSIVE EARTH PRESSURE:

2,500 PSF FOR DEAD LOADS + LIVE LOADS

3,300 PSF FOR DEAD LOADS + LIVE LOADS + LATERAL LOADS

COFFFICIENT OF FRICTION: 0.36 RETWEEN CONCRETE AND SOIL

> 300 PCF EQUIVALENT FLUID PRESSURE (IGNORE UPPER 12 INCHES UNLESS COVERED BY

SLAB-ON-GRADE)

ACTIVE EARTH PRESSURE:

UNRESTRAINED WALLS: 35 PCF EQUIVALENT FLUID PRESSURE (LEVEL) 55 PCF EQUIVALENT FLUID PRESSURE (2:1 SLOPE)

3. REFER TO THE GEOTECHNICAL REPORT FOR ADDITIONAL INFORMATION AND RECOMMENDATIONS NOT

- THE GEOTECHNICAL ENGINEER SHALL VERIFY THE CONDITIONS AND/OR ADEQUACY OF ALL SUBGRADES, ENGINEERED FILLS, AND BACKFILLS BEFORE PLACEMENT OF FILLS, FOOTINGS, SLABS, OR OTHER CONSTRUCTION DEPENDENT UPON THEM.
- EXCAVATIONS FOR FOOTINGS SHALL BE OBSERVED BY THE GEOTECHNICAL ENGINEER PRIOR TO PLACING REINFORCING AND CONCRETE. THE CONTRACTOR SHALL NOTIFY THE GEOTECHNICAL ENGINEER WHEN THE EXCAVATIONS ARE READY FOR OBSERVATION BY THE GEOTECHNICAL
- FOOTINGS SHALL BEAR ON FIRM, UNDISTURBED NATIVE SOIL OR ENGINEERED FILL. ALL ABANDONED FOOTINGS, UTILITIES, ETC., SHALL BE REMOVED. ALL FOOTINGS SHALL BE FOUNDED AT A DEPTH AT LEAST 30" BELOW THE LOWEST ADJACENT GRADE. FOOTING DEPTHS SHOWN ON THE STRUCTURAL DRAWINGS ARE MINIMUM DEPTHS AND SHALL BE VERIFIED IN THE FIELD BY THE GEOTECHNICAL ENGINEER
- SIDES OF FOUNDATIONS SHOWN STRAIGHT ARE FORMED. IF SITE CONDITIONS ALLOW AND GEOTECHNICAL ENGINEER CONCURS, SIDES OF FOUNDATION MAY BE FORMED OR NOT FORMED AT
- WHERE FOUNDATIONS ARE CAST AGAINST EARTH, SLOPE SIDES OF EXCAVATIONS AS APPROVED BY GEOTECHNICAL ENGINEER. CONTRACTOR SHALL BE RESPONSIBLE FOR CLEAN-UP OF SLOUGHED MATERIALS BEFORE AND DURING CONCRETE PLACEMENT. CONCRETE COVER FOR REINFORCEMENT
- ENGINEERED FILL BELOW BUILDING FOOTINGS SHALL BE COMPACTED TO 95% RELATIVE COMPACTION AS DETERMINED BY THE ASTM D1557 COMPACTION TEST METHOD AND UNDER THE OBSERVATION OF THE GEOTECHNICAL ENGINEER. ENGINEERED FILL SHALL EXTEND AT LEAST 5 FEET BEYOND THE BUILDING PERIMETER.
- CONTRACTOR SHALL PROVIDE FOR DE-WATERING IF WATER IS PRESENT IN THE EXCAVATION. DE-WATERING PLANS SHALL BE SUBMITTED FOR REVIEW. DE-WATERING PLANS MAY INCLUDE A MONITORING PROGRAM TO EVALUATE SETTLEMENT IN THE ADJACENT IMPROVEMENTS. SEE GEOTECHNICAL REPORT.
- 11. ALL EXCAVATIONS SHALL BE PROPERLY BACKFILLED. DO NOT PLACE BACKFILL BEHIND RETAINING WALLS BEFORE THE CONCRETE OR GROUT HAS ATTAINED FULL DESIGN STRENGTH UNLESS SPECIFICALLY APPROVED BY THE ENGINEER IN WRITING. THE CONTRACTOR SHALL BRACE OR PROTECT ALL BUILDING AND PIT WALLS BELOW GRADE FROM LATERAL LOADS UNTIL ATTACHING FLOORS ARE COMPLETELY IN PLACE AND HAVE ATTAINED FULL STRENGTH. THE CONTRACTOR SHALL PROVIDE FOR THE DESIGN, PERMITS, AND INSTALLATION OF SUCH BRACING.
- 12. OVER-EXCAVATED FOOTINGS SHALL BE BACKFILLED WITH CONTROLLED LOW STRENGTH MATERIAL (CLSM) (fc'min = 100 PSI, fc'max = 1,200 PSI)

	SHEET INDEX		
SHEET NO.	TITLE	ISSUED FOR PERMIT	REVISION
S1.1	STRUCTURAL GENERAL NOTES	X	
S1.2	STRUCTURAL GENERAL NOTES	X	
S1.3	STRUCTURAL GENERAL NOTES	Х	
S1.4	STRUCTURAL TYPICAL DETAILS	Х	
S1.5	STRUCTURAL TYPICAL DETAILS	Х	
S2.1	LAYOUT PLAN	Х	
S3.1	SECTIONS	Х	
S3.2	SECTION	X	
S3.3	ELEVATION	Х	
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BUREAU OF ENGINEERING CITY & COUNTY OF SAN FRANCISCO SAN FRANCISCO PUBLIC WORKS 49 SOUTH VAN NESS AVENUE, SUITE 800 AN FRANCISCO, CA 94103

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Acting Bureau Mgr:		CHECKED:	DATE:
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POTRERO GATEWAY STREET LANDSCAPE IMPROVEMENTS

10032040 S1.1

STRUCTURAL GENERAL NOTES

- 14. THE CONTRACTOR SHALL NOT UNDERMINE EXISTING FOUNDATIONS AND STRUCTURES DURING EXCAVATION. IF UNDERMINING OCCURS, THE CONTRACTOR'S FAMILE PROVIDE CORRECTIVE MEASURES FOR FAGINFER TO REVIEW AND APPROVE AT CONTRACTOR'S EXPENSE.
- 15. THE GEOTECHNICAL ENGINEER SHALL PREPARE A LETTER FOR THE DEPARTMENT OF BUILDING INSPECTION GIVING AN OPINION RECARDING CONFORMANCE OF THE FOOTING EXCAVATIONS, ENGINEERED FILL COMPACTION, SUBGRADE PREPARATION, AND BACKFILL WITH THE REQUIREMENTS CONTAINED IN THE GEOTECHNICAL REPORT.

CONCRETE

- MIXING, BATCHING, TRANSPORTING, PLACING, AND CURING OF ALL CONCRETE AND SPECIFICATION
 OF CONCRETE MATERIALS, SHALL CONFORM TO ACI 301 "SPECIFICATION FOR STRUCTURAL
 CONCRETE". FXCFPT AS NOTED BELOW.
- CONCRETE SHALL BE READY—MIXED CONFORMING TO ASTM C94. CEMENT SHALL BE PORTLAND
 CEMENT TYPE II, CONFORMING TO ASTM C150. ALL CONCRETE USED IN SUSPENDED SLABS AND
 SLABS—ON—GRADE SHALL BE DESIGNED WITH A SHRINKAGE LIMITATION OF 0.04% AFTER 28 DAYS
 OF DRYING.
- 3. CONCRETE MIX DESIGNS SHALL BE SUBMITTED TO THE ENGINEER AND APPROVED PRIOR TO USE. SELECTION OF CONCRETE MIX PROPORTIONS SHALL BE IN ACCORDANCE WITH ACI 301. MIX PROPORTIONS SHALL MEET OR EXCEED THE REQUIREMENTS LISTED BELOW FOR THE LOCATIONS NOTED. THE MORE STRINGENT OF THE REQUIREMENTS LISTED SHALL GOVERN.
- 4. SUPPLEMENTARY CEMENTITIOUS MATERIALS (SCM), SUCH AS SLAG, FLY ASH, SILICA FUME, AND CALCINED CLAY, AS A PERCENTAGE OF TOTAL WEIGHT OF CEMENTITIOUS MATERIAL SHALL BE A MINIMUM OF 25 PERCENT AND A MAXIMUM OF 50 PERCENT. COAL FLY ASH, AS A PERCENTAGE OF TOTAL WEIGHT OF CEMENTITIOUS MATERIAL, SHALL BE A MAXIMUM OF 25 PERCENT. COAL FLY ASH SHALL BE CLASS F, MEETING ASTM C618 REQUIREMENTS. FINELY GROUND GRANULATED BLAST—FURNACE SLAG SHALL CONFORM TO ASTM C989. WATER/CEMENT RATIO SHALL BE BASED ON TOTAL CEMENTITIOUS MATERIAL, INCLUDING SUPPLEMENTARY CEMENTITIOUS MATERIALS.
- FOR CONCRETE EXPOSED TO WEATHER, ADD XYPEX ADMIX C-500, AS MANUFACTURED BY XYPEX CHEMICAL CORPORATION, RICHMOND BC, CANADA, OR APPROVED EQUAL, TO CONCRETE MIX.
- 6. PROPORTIONS OF AGGREGATE TO CEMENTITIOUS PASTE SHALL BE SUCH AS TO PRODUCE A DENSE, WORKABLE MIX THAT CAN BE PLACED WITHOUT SEGREGATION OR EXCESS FREE SURFACE WATER. SUPERPLASTICIZERS MAY BE USED TO IMPROVE WORKABILITY IN THIN OR CONGESTED SECTIONS.
- 7. ALL CONCRETE USED IN HORIZONTAL SURFACES EXPOSED TO THE WEATHER SHALL CONTAIN AN ACCEPTABLE ADMIXTURE TO PRODUCE AIR—ENTRAINED CONCRETE WITH TOTAL AIR CONTENT OF 4.5 PERCENT +/- 1 PERCENT. AIR CONTENT SHALL BE MEASURED AT THE DISCHARGE OF THE TRUCK. IF CONCRETE IS PUMPED, AIR CONTENT SHALL BE MEASURED AT THE DISCHARGE END OF THE PUMP JIMF. TESTS FOR AIR CONTENT SHALL MEFT ASTM C172 REFOURFMENTS.
- 8. CONCRETE SHALL HAVE THE FOLLOWING CHARACTERISTICS:

LOCATION	STRENGTH, fc'MIN	TEST AGE	MAXIMUM AGGREGATE SIZE	MAXIMUM WATER/CEMENT RATIO	MAX SLUMP
FOOTINGS AND RETAINING WALLS	4,000 PSI	28 DAYS	3/4"	0.45	3 ½"

- 9. PIPES OTHER THAN ELECTRICAL CONDUITS SHALL NOT BE EMBEDDED IN STRUCTURAL CONCRETE EXCEPT WHERE SPECIFICALLY APPROVED BY THE ENGINEER. OUTSIDE DIAMETER OF CONDUIT EMBEDDED IN CONCRETE SHALL NOT EXCEED 1/6 TIMES THE MEMBER THICKNESS, OR 1 ½", WHICHEVER IS LESS, WITHOUT APPROVAL OF THE ENGINEER. MINIMUM CLEAR DISTANCE BETWEEN CONDUITS OR REBAR SHALL BE 3 TIMES CONDUIT DIAMETER (LARGER CONDUIT) OR 1 INCH, WHICHEVER IS GREATER. CONDUIT EMBEDDED IN SLABS SHALL BE EMBEDDED IN ONE LAYER AT MID-DEPTH OF SLABS. CONDUITS SHALL BE FIRMLY CHAIRED AND TIED TO PREVENT DISPLACEMENT DURING CONCRETE PLACEMENT. CONDUIT CAN BE TIED TO REBAR WHEN ORIENTED PERPENDICULAR TO THEM, PROVIDE THE LOCATION OF THE REBAR IS NOT AFFECTED BY THE CONDUIT. PLACE #3 AT 12 INCHES ADDED REINFORCEMENT PERPENDICULAR TO CONDUITS WHERE REQUIRED TO SUPPORT CONDUIT. CONDUITS WITHOUT CLEARANCE NOTED ABOVE SHALL BE SUBMITTED TO THE ARCHITECT FOR REVIEW PRIOR TO INSTALLATION. ADDED TRIM REINFORCEMENT WILL BE REQUIRED WHERE CLEARANCES CANNOT BE MET, SUCH AS ELECTRICAL PANET ROOMS.
- 10. SLEEVES, WHEN EMBEDDED IN CONCRETE, SHALL BE SPACED WITH ONE SLEEVE—DIAMETER (LARGER SLEEVE) CLEAR BETWEEN ADJACENT SLEEVES OR REBAR, OR 1 INCH, WHICHEVER IS GREATER. SLEEVES WITHOUT CLEARANCE NOTED ABOVE SHALL BE SUBMITTED TO THE ARCHITECT FOR REVIEW PRIOR TO INSTALLATION. ADDED TRIM REINFORCEMENT WILL BE REQUIRED WHERE CLEARANCES CANNOT BE MET. SUCH AS ELECTRICAL PANEL ROOMS.
- 11. ALUMINUM PIPES, CONDUITS, AND SLEEVES SHALL NOT BE EMBEDDED IN STRUCTURAL CONCRETE.
- 12. THE CONTRACTOR SHALL INFORM THE ENGINEER AT LEAST 3 DAYS PRIOR TO POURING ANY STRUCTURAL CONCRETE SO THAT THE ENGINEER MAY HAVE THE OPPORTUNITY OF REVIEWING THE WORK PRIOR TO CONCRETE PLACEMENT.
- ALL CONCRETE EXCEPT SLABS—ON—GRADE 6"THICK OR LESS SHALL BE MECHANICALLY VIBRATED
 AS TO COMPLETELY FILL THE FORM WITHOUT CAUSING UNDUE SEGREGATION.
- 14. FOR EACH CLASS OF CONCRETE, FOUR TEST CYLINDERS FROM EACH 150 CUBIC YARDS OR 5,000 SQUARE FEET OF SURFACE AREA FOR SLABS OR WALLS, PLACED IN ANY ONE DAY, SHALL BE SECURED AND TESTED BY THE SAN FRANCISCO PUBLIC WORKS MATERIAL TESTING LABORATORY OR INDEPENDENT, ACCREDITED, AND APPROVED MATERIALS TESTING LABORATORY ONE TO BE TESTED AT 7 DAYS, TWO AT 28 DAYS, AND THE FOURTH HELD IN RESERVE. FOR POST—TENSIONED CONCRETE, SECURE FIVE CYLINDERS PER 150 CUBIC YARDS OR 5,000 SQUARE FEET OF SURFACE AREA FOR SLABS OR WALLS, PLACE IN ANY ONE DAY, TWO SETS MINIMUM ONE TO BE TESTED AT 4 DAYS, TWO AT 28 DAYS, AND TWO HELD IN RESERVE.
- 15. THE CONTRACTOR SHALL REMOVE AND REPLACE ANY CONCRETE WHICH FAILS TO ATTAIN SPECIFIED STRENGTH IN 28 DAYS IF SO DIRECTED BY THE ENGINEER. ANY DEFECTS IN THE HARDENED CONCRETE SHALL BE SATISFACTORILY REPAIRED OR THE HARDENED CONCRETE SHALL BE REPLACED.
- PROJECTING CORNERS SHALL BE FORMED WITH A ¾"CHAMFER UNLESS OTHERWISE NOTED ON THE ARCHITECTURAL DRAWINGS.
- ALL CONSTRUCTION JOINTS SHALL BE CONSTRUCTED IN ACCORDANCE WITH ACI 318 AND THE TYPICAL CONSTRUCTION JOINT DETAILS SHOWN ON THE STRUCTURAL DRAWINGS. ALL SURFACES OF CONSTRUCTION JOINTS SHALL BE CLEANED TO REMOVE DUST, CHIPS, OR OTHER FOREIGN MATTER PRIOR TO PLACING THE ADJACENT CONCRETE. THE CONTRACTOR SHALL SUBMIT THE PROPOSED LOCATIONS OF CONSTRUCTION JOINTS TO THE ARCHITECT FOR REVIEW PRIOR TO START OF CONSTRUCTION.
- WHERE NEW CONCRETE IS TO BE CAST AGAINST EXISTING CONCRETE, THE EXISTING CONCRETE SURFACE SHALL BE ROUGHENED TO A MINIMUM OF "A" AMPLITUDE BY SANDBLASTING OR BUSH HAMMERING. THE EXISTING SURFACE SHALL BE CLEANED AND LAITANCE REMOVED. SATURATE EXISTING SURFACE COMPLETELY PRIOR TO PLACEMENT OF CONCRETE.

REINFORCING STEEL

- REINFORCING STEEL DETAILING, FABRICATION, AND PLACEMENT SHALL CONFORM TO THE ACI 318, CHAPTER 25.
- 2. REINFORCING STEEL SHALL CONFORM TO THE FOLLOWING STANDARDS:

DEFORMED BARS ASTM A615 OR ASTM A706, GRADE 60
DEFORMED BARS USED IN SHEAR WALLS AND
MOMENT-RESISTING-FRAMES
WELDED REINFORCEMENT, WHEN SPECIFIED BY THE ENGINEER
WELDED WIRE FABRIC (WWF) (SMOOTH WIRE)
WELDED WIRE FERNFORCEMENT (DEFORMED WIRE)
SPIRAL REINFORCEMENT
ASTM A496, ASTM A497
SPIRAL REINFORCEMENT
ASTM A615

- 3. ALL STEEL REINFORCING BAR BENDS SHALL BE MADE COLD.
- 4. REINFORCEMENT AND EMBEDMENTS SHALL BE ACCURATELY POSITIONED AND SECURED AGAINST DISPLACEMENT BEFORE AND DURING CONCRETE PLACEMENT. PROVIDE SUFFICIENT SUPPORTS TO PREVENT DAMAGE OR DISPLACEMENT DUE TO CONSTRUCTION TRAFFIC ON REINFORCEMENT.
- PROVIDE CONTINUOUS REINFORCEMENT WHEREVER POSSIBLE. SPLICE ONLY AS SHOWN OR APPROVED.
- 6. WHERE NOTED ON PLANS, PROVIDE THREADED COUPLERS CAPABLE OF DEVELOPING 125% OF THE SPECIFIED YIELD STRENGTH OF THE REINFORCING STEEL. THREADED COUPLERS SHALL BE "LENTON COUPLERS", AS MANUFACTURED BY ERICO COMPANY, SOLON, OHIO, OR APPROVED EQUAL WITH CURRENT ICC—ES EVALUATION REPORT.
- WELDING (INCLUDING TACK WELD) OR REINFORCING BARS IS PROHIBITED EXCEPT WHERE DETAILED OR APPROVED IN WRITING BY ENGINEER.
- 8. REINFORCEMENT CROSSING CONSTRUCTION JOINTS SHALL BE CONTINUOUS OR LAP SPLICED PER TENSION LAP TABLE OR APPROVED COUPLERS.
- MINIMUM CLEAR COVER DISTANCES FROM FINISHED FACE OF CONCRETE TO STEEL REINFORCEMENT SHALL BE AS FOLLOWS:

CONCRETE CAST AGAINST AND PERMANENTLY EXPOSED TO EARTH:

CONCRETE EXPOSED TO EARTH OR WEATHER:
#6 THROUGH #18 BARS 2"
#5 BAR, W31 OR D31 WIRE, AND SMALLER 1 1

CONCRETE NOT EXPOSED TO WEATHER OR IN CONTACT WITH GROUND: SLABS, WALLS, JOISTS

#14 AND #18 BARS 1 ½"
#11 BAR AND SMALLER ½"
BEAMS, COLUMNS 1 ½"

10. SHOP DRAWINGS SHALL BE SUBMITTED TO THE ENGINEER FOR REVIEW PRIOR TO FABRICATION. SHOP DRAWINGS SHALL INCLUDE ELEVATION OF ALL BEAMS AND COLUMNS SHOWING BAR AND LAP LOCATIONS. SUBMIT MILL CERTIFICATES FOR REINFORCING STEEL PRIOR TO REBAR PLACEMENT.

GROUT

 NON-SHRINK GROUT SHALL BE "SIKAGROUT 212", AS MANUFACTURED BY SIKA CORPORATION, LYNDHURST, NEW JERSEY; OR "1428 HP", AS MANUFACTURED BY W. R. MEADOWS, HAMPSHIRE, ILLINOIS; OR "MASTERFLOW 928", AS MANUFACTURED BY BASE CORPORATION; OR APPROVED EQUAL. NON-SHRINK GROUT SHALL BE NON-METALLIC AND CONTAIN NO CHLORIDES AND SHALL MEET THE REQUIREMENTS OF ASTM C1107.

ADHESIVE AND MECHANICAL ANCHORS

- ALL POST-INSTALLED ANCHORS AND DOWELS SHALL BE INSTALLED IN STRICT ACCORDANCE WITH MANUFACTURER'S PRINTED INSTALLATION INSTRUCTION (MPII) IN CONJUNCTION WITH EDGE DISTANCE, SPACING AND EMBEDMENT DEPTH AS INDICATED ON THE DRAWINGS.
- HOLES DRILLED IN EXISTING CONCRETE OR MASONRY SHALL BE OF THE SIZE RECOMMENDED BY AND SHALL BE CLEANED AND OTHERWISE PREPARED PER THE RECOMMENDATIONS OF THE ADHESIVE OR EXPANSION ANCHOR MANUFACTURER.
- 3. DO NOT CUT EXISTING STEEL REINFORCEMENT UNDER ANY CIRCUMSTANCES WITHOUT PRIOR WRITTEN CONSENT FROM THE CITY REPRESENTATIVE. CONTACT THE CITY REPRESENTATIVE IMMEDIATELY TO RESOLVE CONFLICTS.
- ADHESIVE ANCHORS INSTALLED IN HORIZONTAL OR UPWARDLY INCLINED ORIENTATION TO SUPPORT SUSTAINED TENSION LOADS SHALL BE INSTALLED BY A CERTIFIED ADHESIVE ANCHOR INSTALLER. PROOF OF CURRENT CERTIFICATION SHALL BE SUBMITTED TO THE CITY REPRESENTATIVE FOR APPROVAL PRIOR TO COMMENCEMENT OF INSTALLATION.
- 5. ADHESIVE ANCHORS SHALL BE INSTALLED IN CONCRETE HAVING A MINIMUM AGE OF 21 DAYS.
- 6. ADHESIVE USED FOR POST-INSTALLED ANCHORS IN CONCRETE CONSTRUCTION SHALL BE "HILTI HIT-RE 200" ADHESIVE (ICC-ES ESR-3187), AS MANUFACTURED BY HILTI INC., PLANO, TEXAS; OR "SIMPSON SET-XP" EPOXY ADHESIVE (ICC-ES ESR-2508), AS MANUFACTURED BY SIMPSON STRONG-TIE COMPANY, INC., PLEASANTON, CALIFORNIA; OR "PURE 110+" EPOXY ADHESIVE (ICC-ES ESR-3298), AS MANUFACTURED BY DEWALT/POWERS, TOWSON, MARYLAND; OR APPROVED EQUAL. ADHESIVE ANCHORS SHALL CONFORM TO ICC-ES ACCEPTANCE CRITERIA AC308 FOR CRACKED AND UNCRACKED CONCRETE.
- ADHESIVE ANCHORS IN CONCRETE AND MASONRY SHALL BE INSTALLED WITH THE FOLLOWING MINIMUM EMBEDMENT AND DIRECT TENSION TEST LOAD AND/OR TORQUE TEST LOAD, U.O.N.:

REBAR OR THREADED BOLT	MIN FWBFD	TENSION TEST LOAD	MIN TORQUE	
#3 OR ¾" DIA	33/8"	2,000 POUNDS	20 FOOT-POUNDS	
#4 OR ½" DIA	4½"	4,000 POUNDS	40 FOOT-POUNDS	
#5 OR %" DIA	5%"	6,000 POUNDS	60 FOOT-POUNDS	
#6 OR ¾" DIA	6¾"	9,000 POUNDS	130 FOOT-POUNDS	
#7 OR ¾" DIA	7%"	12,000 POUNDS		
#8 OR 1" DIA	9"	15,000 POUNDS		

5 PERCENT OF ALL NEW ADHESIVE ANCHORS IN EXISTING CONCRETE AND MASONRY, BUT NOT LESS THAN TWO ANCHORS, SHALL BE SUBJECT TO DIRECT TENSION TEST, AND AN ADDITIONAL 20 PERCENT, BUT NOT LESS THAN THREE ANCHORS, SHALL BE TESTED USING A TORQUE CALIBRATED WRENCH. IF ANY ONE ANCHOR FAILS, THEN ALL ANCHORS INSTALLED BY THAT CREW SHALL BE TESTED. ANCHORS THAT FAIL THE TEST LOAD SHALL BE REPLACED AND RE—TESTED AT CONTRACTOR'S EXPENSE.

- 8. MECHANICAL EXPANSION ANCHORS FOR CONCRETE AND MASONRY CONSTRUCTION SHALL BE "HILTI KWIK BOLT TZ" ANCHOR (ICC-ES ESR-1917), AS MANUFACTURED BY HILTI INC., PLANO, TEXAS; OR "SIMPSON STRONG-BOLT 2" WEDGE ANCHOR (ICC-ES ESR-3037), AS MANUFACTURED BY SIMPSON STRONG-TIE COMPANY, INC., PLEASANTON, CALIFORNIA; OR "STUD + SD2" WEDGE ANCHOR (ICC-ES ESR-2502), AS MANUFACTURED BY DEWALT/POWERS, TOWSON, MARYLAND; OR APPROVED FOILAL
- MECHANICAL EXPANSION ANCHORS IN CONCRETE AND MASONRY SHALL BE INSTALLED PER MANUFACTURER'S PRINTED INSTALLATION INSTRUCTIONS. 25 PERCENT OF ALL ANCHORS, BUT NOT LESS THAN THREE ANCHORS, SHALL BE TESTED USING A TORQUE CALIBRATED WRENCH TO LOADS RECOMMENDED BY THE MANUFACTURER. IF ANY ONE ANCHOR FAILS, THEN ALL ANCHORS INSTALLED BY THAT CREW SHALL BE TESTED. ANCHORS THAT FAIL THE TEST LOAD SHALL BE REPLACED AND RE-TESTED AT CONTRACTOR'S EXPENSE.

					REFERENCE INFORMATION & FILE NO. OF SURVEYS
NO.	DATE	DESCRIPTION	BY	APP.	
THIS	DRAWING	TABLE OF REVISIONS WAS LAST MODIFIED: 05/25/21 15:38.	3Y: dleuno		





BUREAU OF ENGINEERING
CITY & COUNTY OF SAN FRANCISCO
SAN FRANCISCO PUBLIC WORKS
49 SOUTH VAIN NESS AVENUE, SUITE 800
SAN FRANCISCO CA 94103

	Date:	DESIGNED:	DATE:
Section Mgr:		SL	05/2021
RAYMOND LUI		DRAWN:	DATE:
Deputy Bureau Mgr:		DRAWN.	DATE.
FERNANDO CISNEROS		DL	05/2021
Acting Bureau Mgr:		CHECKED:	DATE:
IQBALBHAI DHAPA			
		RL	05/2021



SCALE:

AS SHOWN

SHEET OF SHEETS

AS SHOWN STREET LANDSCAPE IMPROVEMENTS

10032040
DRAWING NO.
\$1.2

STRUCTURAL GENERAL NOTES

REV. NO.

SPECIAL INSPECTION, TESTING, STRUCTURAL OBSERVATION, AND SUBMITTALS

- STATEMENT OF SPECIAL INSPECTION (CBC SECTION 1704.3) SPECIAL INSPECTIONS AND TESTING SHALL BE PERFORMED IN ACCORDANCE WITH THE APPROVED PLANS AND SPECIFICATIONS, THIS STATEMENT AND CBC SECTIONS 1704 AND 1705. THE SECTIONS BELOW SUMMARIZE THE SPECIAL INSPECTIONS AND TESTS REQUIRED FOR THIS
- WHERE INDICATED WITH AN "X". THE FOLLOWING ITEMS SHALL BE INSPECTED IN ACCORDANCE WITH SFBC CHAPTER 17 BY A CERTIFIED SPECIAL INSPECTOR FROM AN APPROVED SPECIAL INSPECTION AGENCY. "C"INDICATES CONTINUOUS SPECIAL INSPECTION AND "P" INDICATES PERIODIC SPECIAL INSPECTION. THE SPECIAL INSPECTION AGENCY SHALL SEND COPIES OF ALL SPECIAL INSPECTION REPORTS DIRECTLY TO THE RESIDENT ENGINEER, ARCHITECT, ENGINEER, AND BUILDING OFFICIAL. ANY MATERIALS WHICH FAIL TO MEET THE PROJECT SPECIFICATIONS SHALL IMMEDIATELY BE BROUGHT TO THE ATTENTION OF THE ENGINEER.

VERIFICATION AND INSPECTION	C	P	NOTES
SOILS			
 VERIFY MATERIALS BELOW FOOTINGS ARE ADEQUATE TO 		X	BY GEOTECHNICAL
ACHIEVE THE DESIGN BEARING CAPACITY			ENGINEER
2. VERIFY EXCAVATIONS ARE EXTENDED TO PROPER DEPTH		X	BY GEOTECHNICAL
AND REACHED PROPER MATERIAL			ENGINEER
 PERFORM CLASSIFICATION AND TESTING OF COMPACTED 		X	BY GEOTECHNICAL
FILL MATERIALS			ENGINEER
4. VERIFY USE OF PROPER MATERIALS, DENSITIES AND LIFT	X		BY GEOTECHNICAL
THICKNESSES DURING PLACEMENT AND COMPACTION OF			ENGINEER
COMPACTED FILL			
5. PRIOR TO PLACEMENT OF COMPACTED FILL, INSPECT		Х	BY GEOTECHNICAL
SUBGRADE AND VERIFY THAT SITE HAS BEEN PREPARED			ENGINEER
PROPERLY			

	VERIFICATION AND INSPECTION	С	Р	NOTES
	CONCRETE CONSTRUCTION			
	INSPECT REINFORCEMENT AND VERIFY PLACEMENT		Х	
5	2. REINFORCING BAR WELDING			
	2.1. VERIFY WELDABILITY OF REINFORCING BARS OTHER			
	ASTM A706			
	2.2. INSPECT SINGLE-PASS FILLET WELDS, MAXIMUM 5/16"			
	2.3. INSPECT ALL OTHER WELDS			
7	3. INSPECT ANCHORS CAST IN CONCRETE			
	4. INSPECT AND TEST ANCHORS POST-INSTALLED IN			
	HARDENED CONCRETE MEMBERS			
	4.1. ADHESIVE ANCHORS INSTALLED IN HORIZONTALLY			
6	OR UPWARDLY INCLINED ORIENTATIONS TO RESIST			
	SUSTAINED TENSION LOADS			
	4.2. MECHANICAL ANCHORS AND ADHESIVE ANCHORS			
	NOT DEFINED IN 4.1		v	
	5. VERIFY USE OF REQUIRED MIX DESIGN		Χ	
٦	6. PRIOR TO CONCRETE PLACEMENT, FABRICATE SPECIMENS			
	FOR STRENGTH TESTS, PERFORM SLUMP AND AIR			
	CONTENT TESTS, AND DETERMINE THE TEMPERATURE OF			
	THE CONCRETE 7. INSPECT CONCRETE AND SHOTCRETE PLACEMENT FOR	Х		
7	PROPER APPLICATION TECHNIQUES	l x l		
1	8. VERIFY MAINTENANCE OF SPECIFIED CURING	^		
	TEMPERATURES AND TECHNIQUES		Х	
	9. INSPECT PRESTRESSED CONCRETE FOR		^	
	9.1. APPLICATION OF PRESTRESSING FORCES			
4	9.2. GROUTING OF BONDED PRESTRESSING TENDONS			
	10. INSPECT ERECTION OF PRECAST CONCRETE MEMBERS			
	11. VERIFY IN-SITUE CONCRETE STRENGTH, PRIOR TO			
	STRESSING OF TENDONS IN POST-TENSIONED CONCRETE			
	AND PRIOR TO REMOVAL OF SHORES AND FORMS FROM			
8	BEAMS AND STRUCTURAL SLABS			
	12. INSPECT FORMWORK FOR SHAPE, LOCATION, AND			
	DIMENSIONS OF THE CONCRETE MEMBER BEING FORMED	Х		
8	BEAMS AND STRUCTURAL SLABS	X		

A REGISTERED DESIGN PROFESSIONAL SHALL PROVIDE VISUAL OBSERVATION OF THE STRUCTURAL SYSTEMS NOTED BELOW FOR GENERAL CONFORMANCE TO THE APPROVED PLANS AS INDICATED WITH AN "X" AT SIGNIFICANT CONSTRUCTION STAGES AND AT THE COMPLETION OF THE STRUCTURAL SYSTEM. STRUCTURAL OBSERVATION DOES NOT INCLUDE OR WAIVE THE RESPONSIBILITY FOR THE INSPECTIONS AND SPECIAL INSPECTIONS REQUIRED BY THE SFBC.

STRUCTURAL OBSERVATIONS	REQ'D	NOTES
FOUNDATIONS 1. ISOLATED & CONTINUOUS FOOTINGS, STEM WALLS 2. RETAINING WALLS		AT COMPLETION OF REINFORCING PLACEMENT PRIOR TO CONCRETE PLACEMENT FOR ALL MAJOR COMPONENTS AND AT FIRST CONCRETE PLACEMENT FOR THE PROJECT

WHERE INDICATED WITH AN "X" BELOW, THE CONTRACTOR SHALL SUBMIT CERTIFICATES OF CONFORMANCE, SHOP DRAWINGS, CALCULATIONS, AND DETAILS TO THE CITY REPRESENTATIVE FOR REVIEW AND APPROVAL PRIOR TO FABRICATION. WERE CALCULATIONS AND DETAILS ARE REQUIRED, THE SUBMITTAL SHALL BE SEALED AND SIGNED BY A REGISTERED DESIGN PROFESSIONAL IN THE STATE OF CALIFORNIA. FOR ADDITIONAL INFORMATION REGARDING SUBMITTALS, SEE SPECIFICATIONS.

ITEM	CERTIFICATES	SHOP	CALCS &	NOTES
		DRAWINGS	DETAILS	
CONCRETE, REINFORCING	Х	Х		
CONCRETE, MIX DESIGN		Х		
CONCRETE, CEMENT	Х			
CONCRETE, FINE AGGREGATES	Х			
CONCRETE, COARSE AGGREGATES	Х			
CONCRETE, ADMIXTURES	Х			
SHOTCRETE, MIX DESIGN				
PRECAST CONCRETE MEMBERS				

A	RRREV	RATIONS	

DIAMETER

EDGE NAILING

GALVANIZED

EQUAL

F.O.F. F.O.S.

FRP

GALV

H.R. H.S.B.

A.B.	ANCHOR BOLT		
ACI	AMERICAN CONCRETE INSTITUTE	L	ANGLE
ADDT'L	ADDITIONAL	LLH	LONG LEG HORIZONTAL
ADJ	ADJACENT	LLV	LONG LEG VERTICAL
AISC	AMERICAN INSTITUTE OF STEEL CONSTRUCTION	LVL	LAMINATED VENEER LUMBER
ARCH	ARCHITECTURAL	LWC	LIGHTWEIGHT CONCRETE
ASTM	AMERICAN STANDARDS TESTING AND MATERIALS		
AWS	AMERICAN WEI DING SOCIETY	MAT'L	MATERIAL
&	AND	MAX	MAXIMUM
0	AT	MECH	MECHANICAL
•	70	MET	METAL
BAL	BALANCE	MIL	MILLIMETER
BLDG	BUILDING	MIN	MINIMUM
BLKG	BLOCKING	MISC	MISCELLANEOUS
BM	BEAM		
B, BOT	BOTTOM	NEW	
B.O.		NDT	NON-DESTRUCTIVE TESTING
B.O.E.		N.I.A.	NOT IN CONTRACT
B.O.F.		N.T.S.	NOT TO SCALE
B.O.S.	BOTTOM OF STEEL	NO.,#	NUMBER
B.O.W.	BOTTOM OF WALL	NOM	NOMINAL
B.S.	BOTH SIDE	NWC	NORMALWEIGHT CONCRETE
BET, BTWN	BETWEEN		
		0.C.	ON CENTER
CBC	CALIFORNIA BUILDING CODE	0.D.	OUTSIDE DIAMETER
CCSF	CITY AND COUNTY OF SAN FRANCISCO	0.F.	OUTER FACE

JOINT

RELATIVE COMPACTION

REDWOOD

SHEATHING

TOP AND BOTTOM

THICK THROUGH TOP OF TOP OF CONCRETE TOP OF STEEL

TOP OF WALL TYPICAL

VERTICAL VERIFY IN FIELD

WITH WITHOUT WOOD WIDE FLANGE WITH RESPECT TO WELDED WIRE FABRIC

UNLESS OTHERWISE NOTED

SF	CITY AND COUNTY OF SAN FRANCISCO	0.F.	OUTER FACE
IK PL	CHECKERED PLATE	OPP HD	OPPOSITE HAND
J.	CONTROL JOINT	OPNG	OPENING
Р	COMPLETE JOINT PENETRATION	OPP	OPPOSITE
	CENTER LINE		
.R	CLEAR	P.J.P.	PARTIAL JOINT PENETRATION
(U	CONCRETE MASONRY UNITS	PL	PLATE
)L	COLUMN	P.L.,P2	PROPERTY LINE
NC	CONCRETE	PLF	POUNDS PER LINEAR FOOT
NN	CONNECTION	PLYWD	PLYW00D
NT	CONTINUOUS	PSI	POUNDS PER SQUARE INCH
R	CENTER	PSF	POUNDS PER SQUARE FOOT
		PSL	PARALLEL STRAND LUMBER
IL.	DOUBLE		
Т	DETAIL	R	RADIUS

DING	DINGUIAL	NOND	NEDWOOD
DIM	DIMENSION	REINF	REINFORCING, REINFORCEMENT, REINFORCED
DIR	DIRECTION	REQ'D	REQUIRED
DN	DOWN	RET	RETAIN, RETAINING
DO .	DITTO	R.O.	ROUGH OPENING
DWG	DRAWING		
		S.A.D.	SEE ARCHITECTURAL DRAWING
(E)	EXISTING	S.E.D.	SEE ELECTRICAL DRAWING
EA	EACH	S.L.D.	SEE LANDSCAPE DRAWING
E.F.	EACH FACE	S.M.D.	SEE MECHANICAL DRAWING
E.J.	EXPANSION JOINT	S.P.D.	SEE PLUMBING DRAWING
EL, ELEV	ELEVATION	SCHED	SCHEDULE
ELEC	ELECTRICAL	SEC	SECTION
EMBED	EMBEDMENT	SFBC	SAN FRANCISCO BUILDING CODE

RDWD

SHTG

EQUIPMENT	SIM	SIMILAR
EACH SIDE	S.0.G	SLAB-ON-GRADE
EACH WAY	SPEC	SPECIFICATION
EXTERIOR	S.S.	STAINLESS STEEL
	SQ	SQUARE
FINISH FLOOR	STD	STANDARD
FINISH GRADE	STIFF	STIFFENER
FINISH	STIR	STIRRUP
FLOOR	STL	STEEL
FOUNDATION	STRUCT	STRUCTURAL
FACE OF CONCRETE	SYM	SYMMETRICAL

FACE OF FINISH	
FACE OF STUD	T
FACE OF WALL	T & I
FIBER REINFORCED PLASTIC	THK
FOOT, FEET	THRU
FOOTING	T.O.
	T.O.C.
GAGE	T.0.S

HORIZONTAL	
HAND RAIL	U.O.N.
HIGH STRENGTH BOLT HOLLOW STRUCTURAL SECTION	V, VERT V.I.F.
INTERNATIONAL CODE COUNCIL	

INSIDE DIAMETER	W/
INNER FACE	W/0
INCHES	WD
INFORMATION	WF
INSULATION	W.R.T.
INTERIOR	WT
	W.W.F.

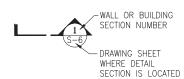
WALL SECTION AND BUILDING SECTION:

LEGEND

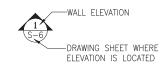


DRAWING SHEET WHERE BUILDING SECTION IS LOCATED

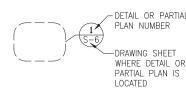




WALL ELEVATION:



DETAIL OR PARTIAL PLAN REFERENCE:



DETAIL REFERENCE:

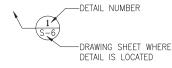


TABLE OF REVISIONS HIS DRAWING WAS LAST MODIFIED: 05/25/21 15:38, BY: dleung





BUREAU OF ENGINEERING CITY & COUNTY OF SAN FRANCISCO SAN FRANCISCO PUBLIC WORKS 49 SOUTH VAN NESS AVENUE, SUITE 800 AN FRANCISCO CA 94103

	Date:	DESIGNED:	DATE:
Section Mgr:		SL	05/202
RAYMOND LUI		DRAWN:	DATE:
Deputy Bureau Mgr:			
FERNANDO CISNEROS		DL	05/202
Acting Bureau Mgr:		CHECKED:	DATE:
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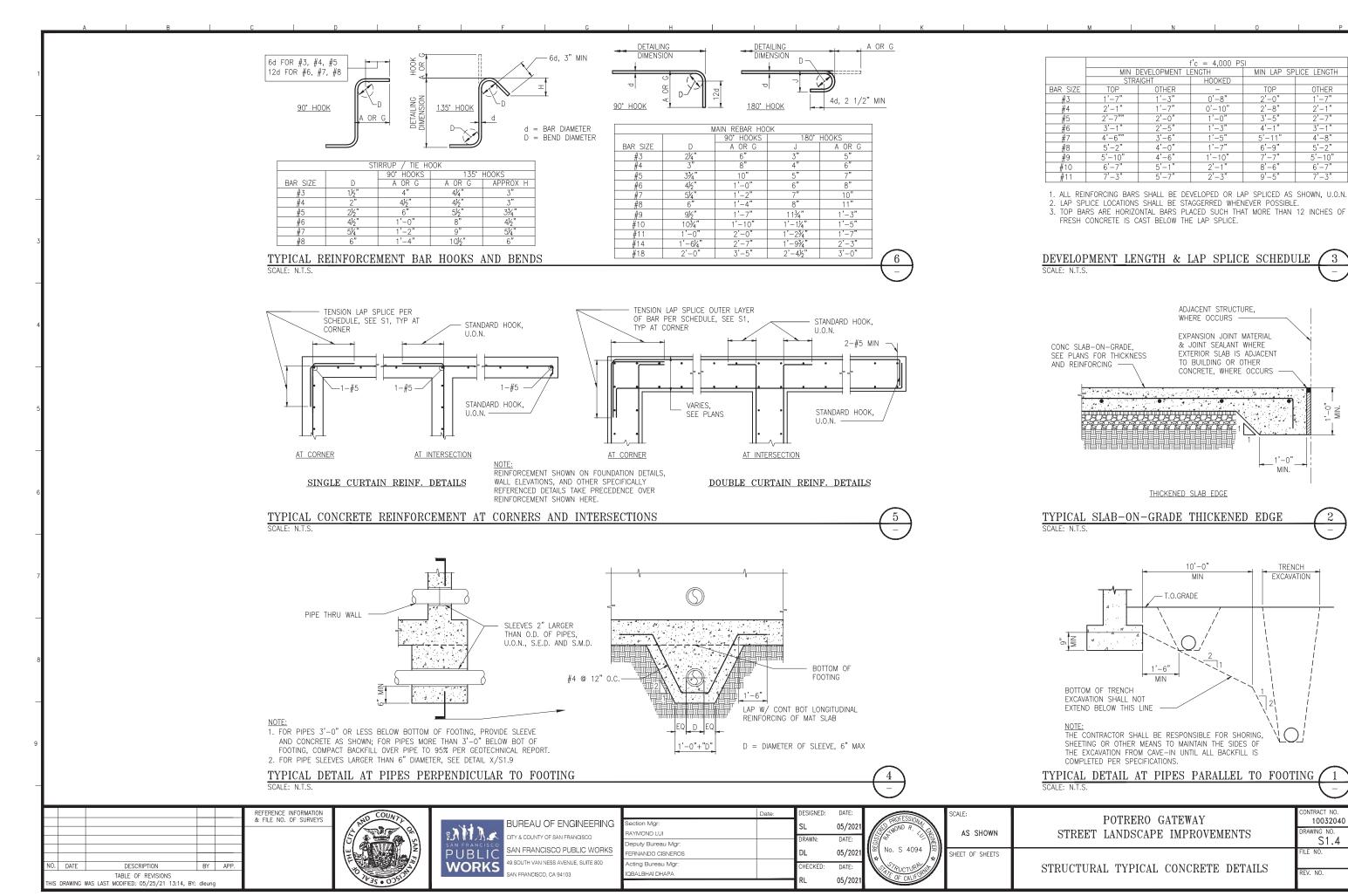
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POTRERO GATEWAY STREET LANDSCAPE IMPROVEMENTS

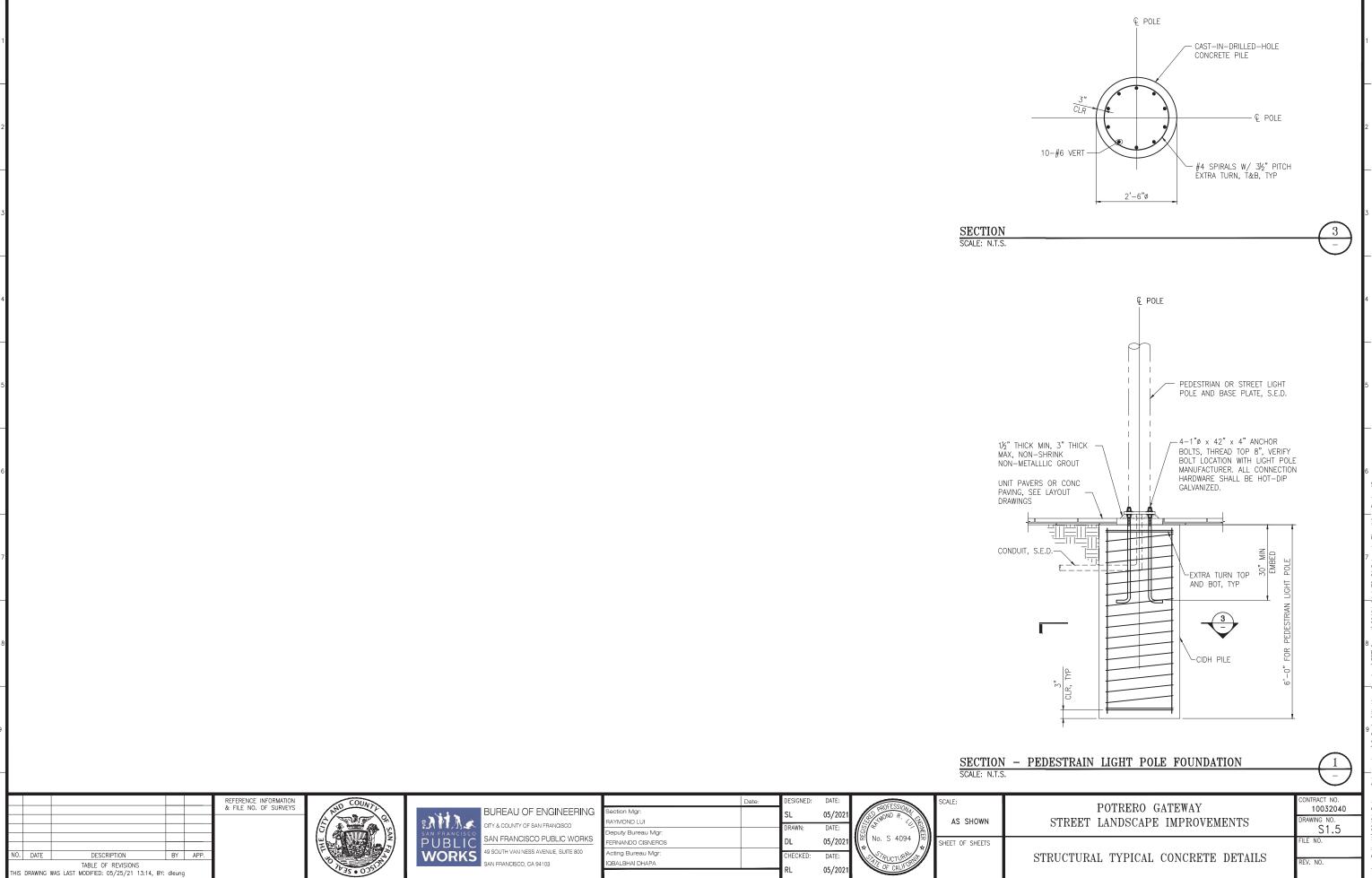
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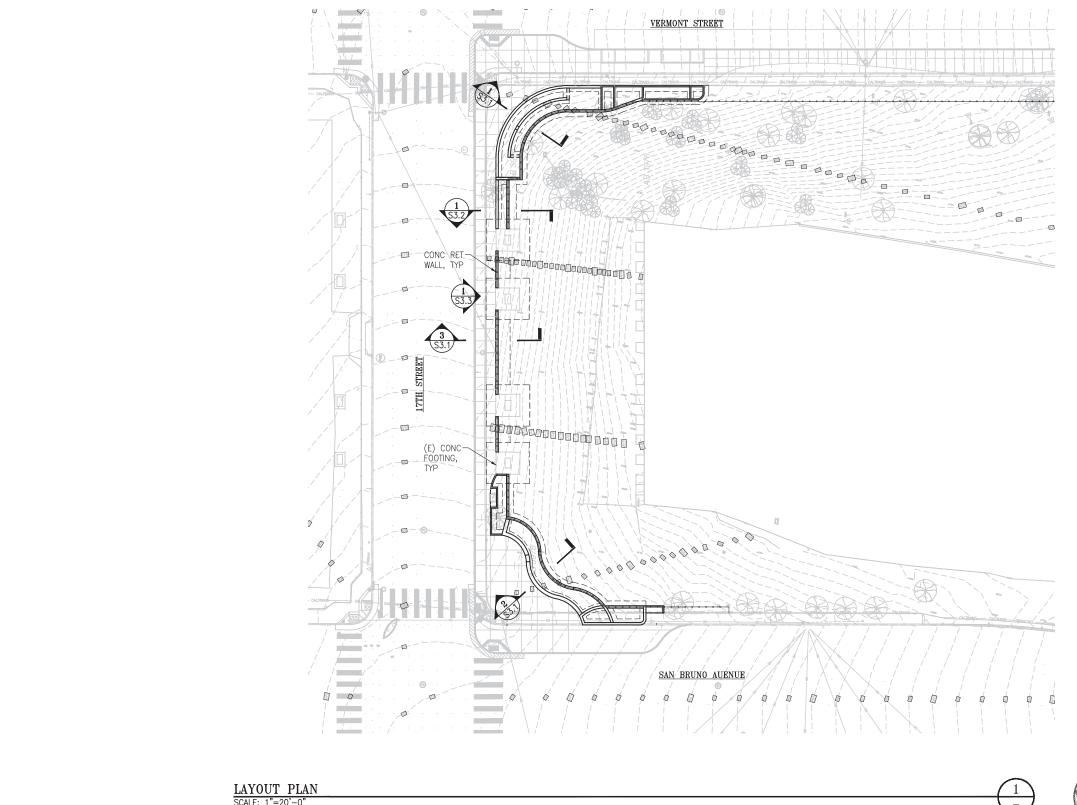
STRUCTURAL GENERAL NOTES



owing Path: V:\2949u_Potrero_Gateway_Loop\2_Design\Working_Drawings\EST\Curren\2949u_\$1,4 TO \$1.5.dwg, Lo@meateuing.Scale: 40 at Time: Tue, 25 May 2021 — 3:39pm Model Units: Inches



190_Potrero_Cateway_Loop\2_Design\Working_Drawings\EST\Current\2849J_S1.4 TO S1.5.dwg. Logimeatecamp Scale: 40 Aby 2021 — 3:40pm Measurement Units are English Model Units: Inches



LAYOUT PLAN
SCALE: 1"=20'-0"

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PUBLIC WORKS

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K.	CITY & COUNTY OF SAN FRANCISCO					
$\overset{\circ}{c}$	SAN FRANCISCO PUBLIC WORKS					
Š	49 SOUTH VAN NESS AVENUE, SUITE 800					
J	SAN FRANCISCO, CA 94103					

	Date:	DESIGNED:	DATE:
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Deputy Bureau Mgr:		DRAWN:	DATE:
FERNANDO CISNEROS		DL	05/2021
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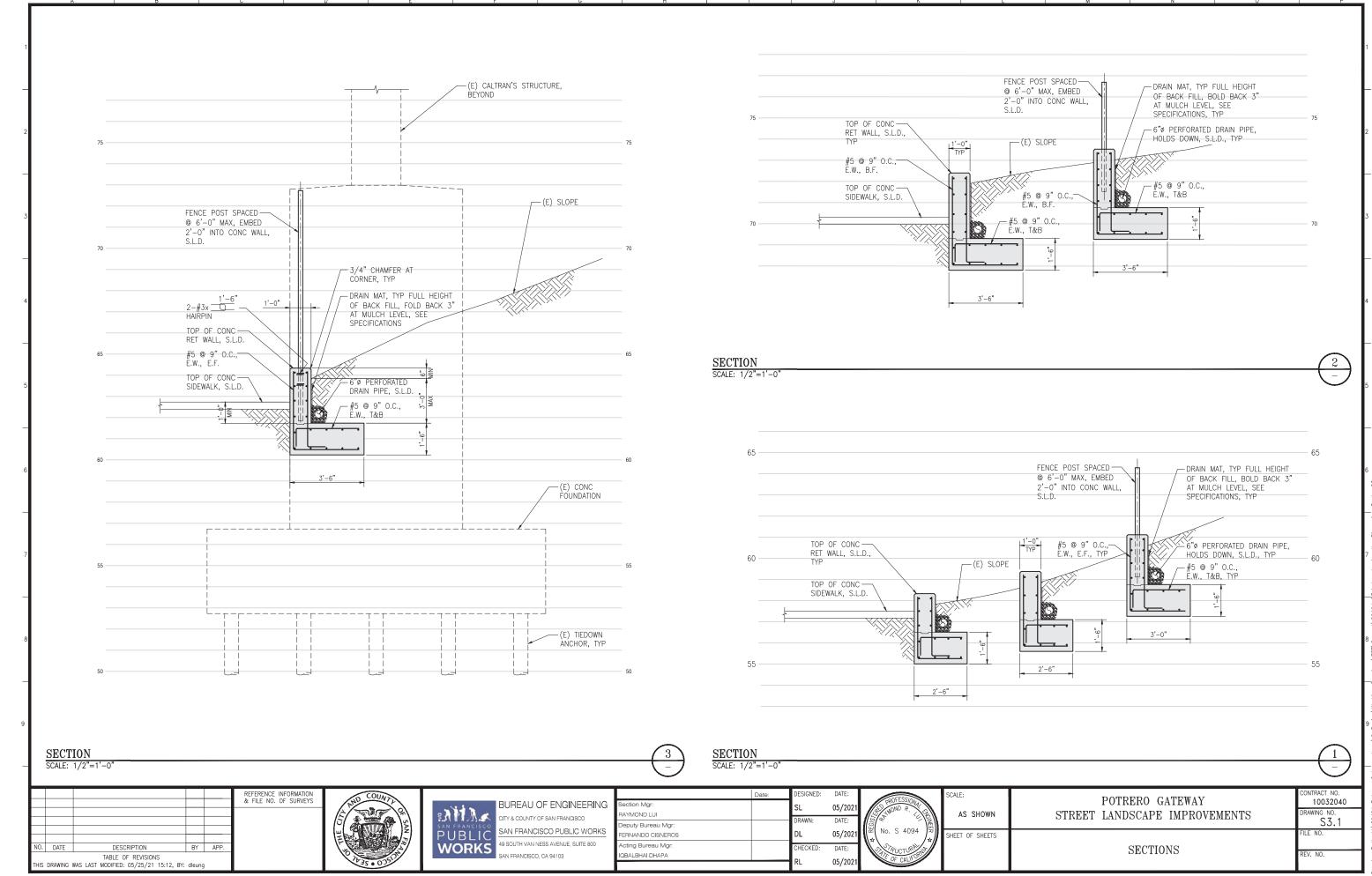
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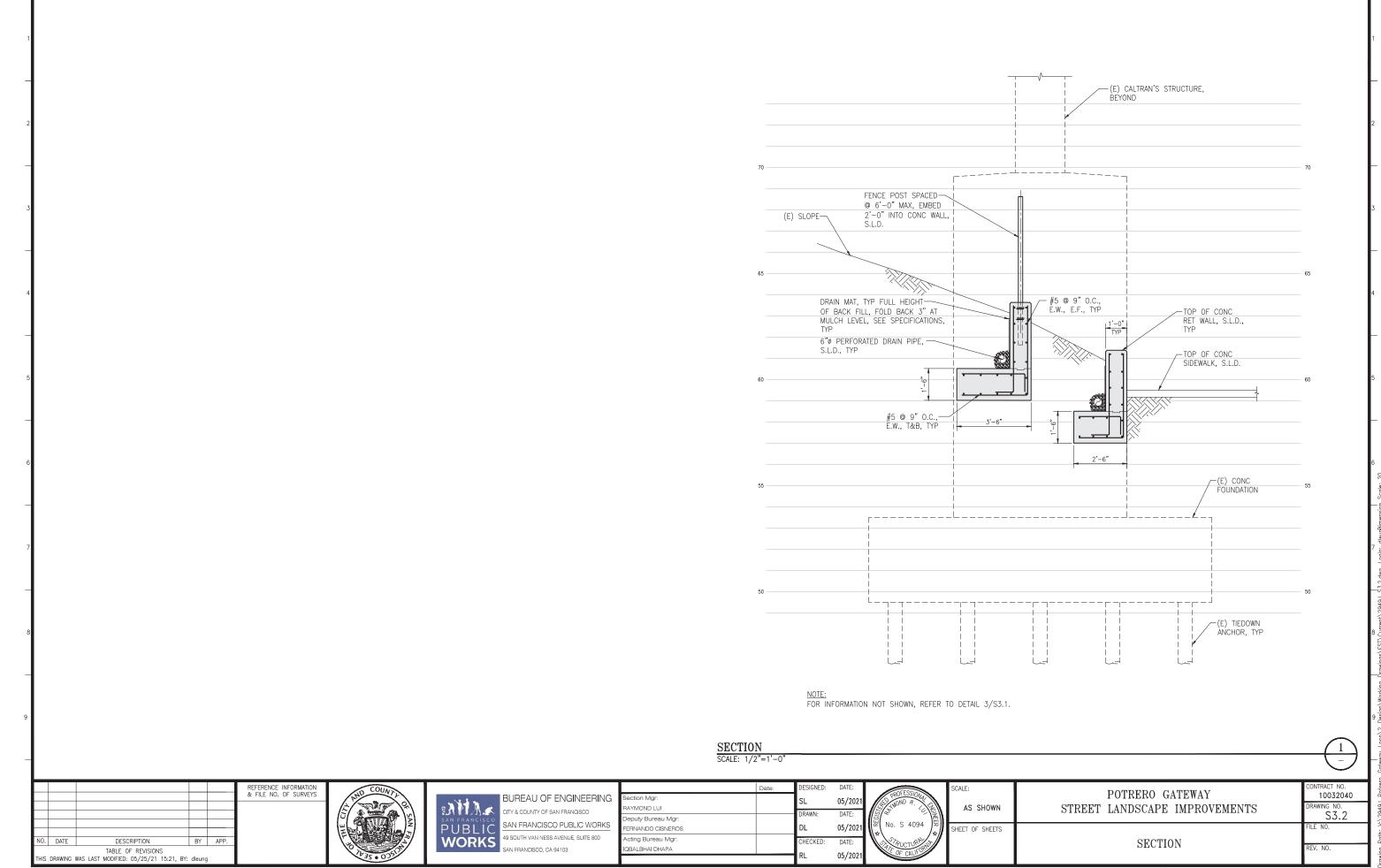
POTRERO GATEWAY STREET LANDSCAPE IMPROVEMENTS

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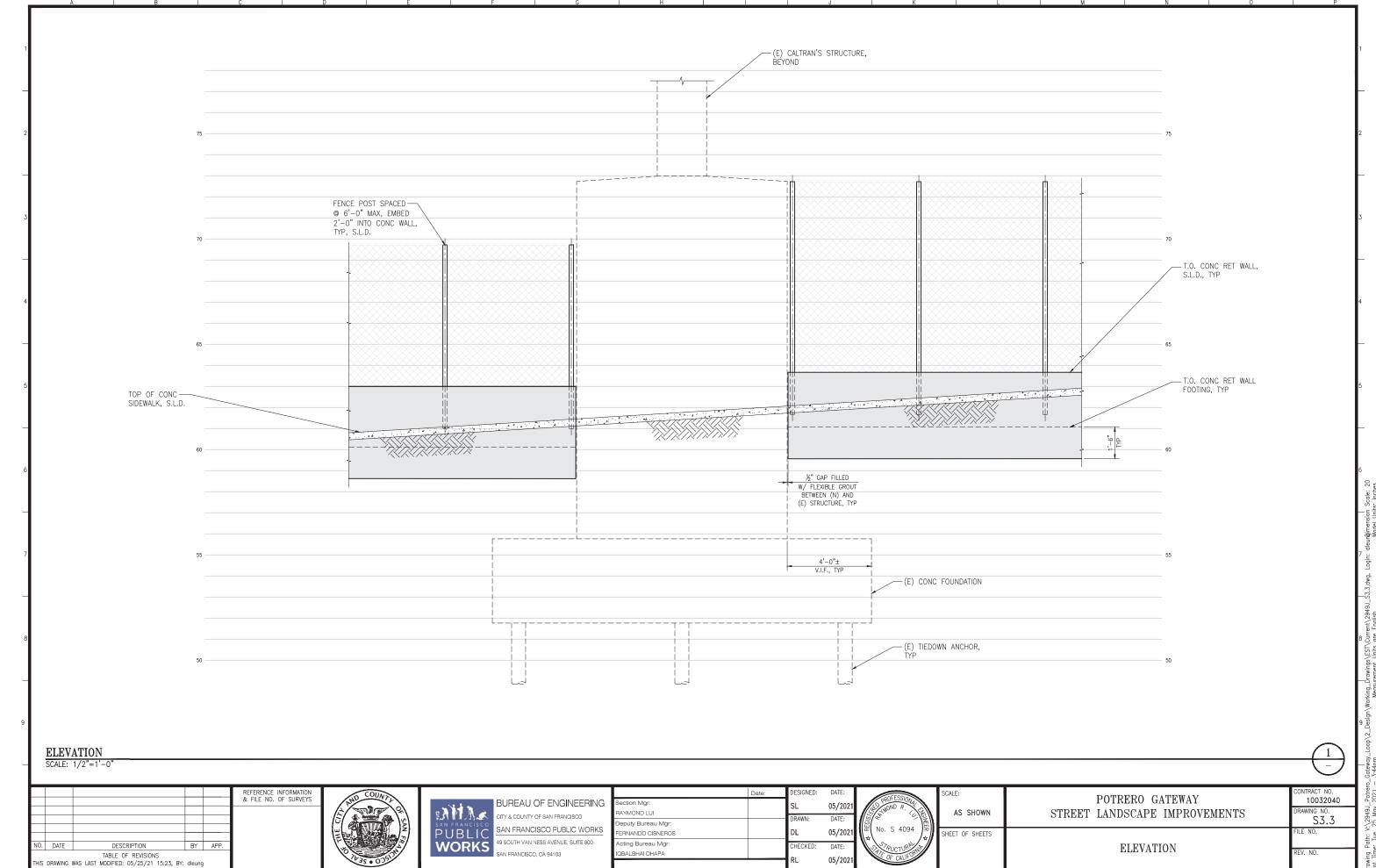
LAYOUT PLAN



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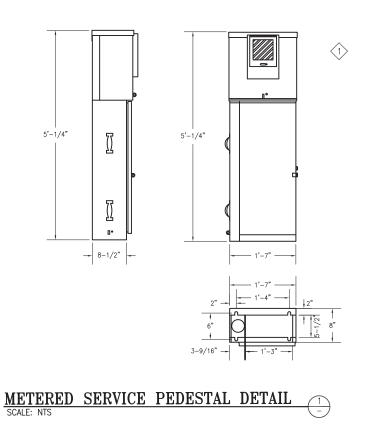
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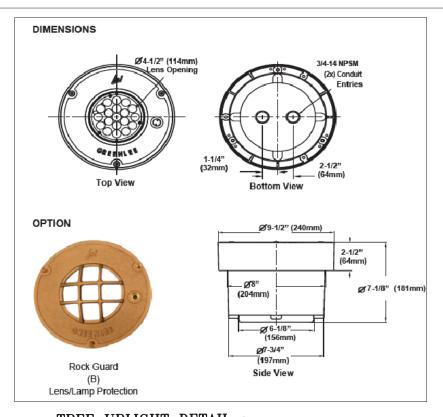
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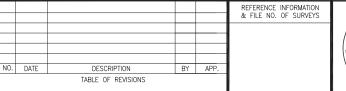
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LIGHT POLE FOOTING (4)

6" MIN.

1 P = POWER

TYPICAL TRENCH DETAIL

X = LOW VOLTAGE/SECURITY

CONDUIT FOR

SCALE: NONE

4-3/4"ø STAINLESS STEEL

WASHERS & NUTS, TYPICAL

WITH STAINLESS STEEL

1 1/4" MIN NON-SHRINK GROUT

CONCRETE CURB, SEE ROADWAY DWGS.

ROADWAY

PVC SCHEDULE 80 -

BRANCH CIRCUIT CONDUIT

INSTALLED 24" BELOW FINISH GRADE. USE PVC SCHEDULE 80 U.L. LISTED

REFER TO TRENCH DETAIL

ON ELECTRICAL PLANS.

FOR DIRECT BURIAL.

CONDUIT WITH

CONDUCTORS

ANCHOR BOLTS. WITH 24" MIN EMBEDED INTO CONCRETE,

CHAMFER

3'-0"

MIN.

SCALE: NTS

SECURITY/LOW VOLTAGE -

-(N) ASPHALT OR GRASS/LAWN

-CONDUIT FOR POWER/LIGHTING LOADS

-WARNING TAPE

95% COMPACTED BACKFILL

- HANDHOLE AND LOCKING COVER

- ALUMINUM BASE PLATE

- LIGHT POLE, SEE LIGHTING FIXTURE SCHEDULE

PROVIDE GROUND BUSHING AND #10 BARE COPPER GROUND JUMPERS TO BOLTS.

CONNECT GROUND ROD TO POLE GROUNDING

STUD, BOLTS AND CONDUIT GROUND CLIPS FINISH GRADE AT SIDEWALK, SEE LANDSCAPE ARCHITECTURAL DWGS.

	SCALE:
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POTRERO GATEWAY STREET LANDSCAPE IMPROVEMENTS ELECTRICAL DETAILS

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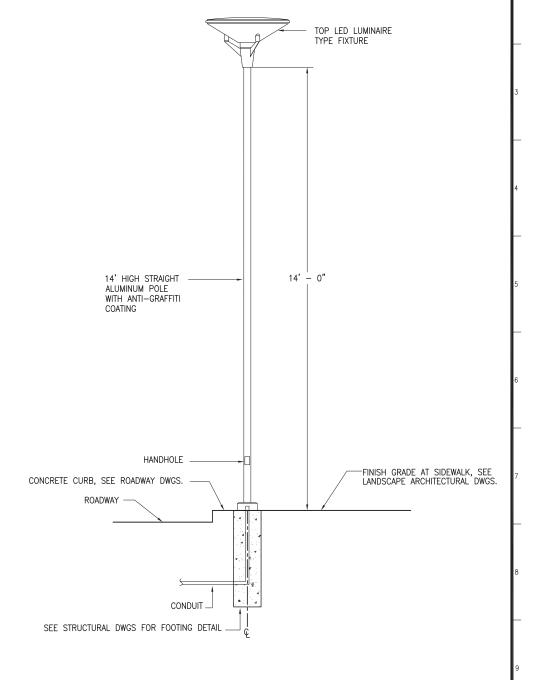
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RAWING NO.

REV. NO.

SHEET NOTES:

METERED SERVICE PEDESTAL SHALL BE TESCO MODEL #27-100 OR APPROVED EQUAL.



TYPE A PEDESTRIAN LIGHT DETAIL (5)

TAG	DESCRIPTION	MANUFACTURER	QUANTITY	LAMP	COLOR	VOLT	REMARK
A	HR-LINE FROSTED COVER AND DENSELY SPACED LEDS INSIDE EXTRUSION, PROVIDING THE EFFECT OF AN EVEN LINE OF LIGHT. WITH HIGH INTEGRITY AND HIGH LOAD BEARING CAPACITY, EXTRUSION IS IDEAL FOR HIGH-TRAFFIC AREAS SUCH AS SIDEWALKS, BIKE PATHS, ENVIRONMENT FRIENDLY.	KLUS LLC #B3579	PLF	LED	4000K	120	
B 23	TAMPER-RESISTANT LED INGROUND UPLIGHT WITH VARIABLE FLOOD HORIZONTAL BEAM ANGLE DISTRIBUTION WITH TILTABLE OPTICS +/- 15 DEGREES FROM VERTICAL. DURAGRIP FINISH WITHSTANDS EXTREME WEATHER CHANGES WITHOUT CRACKING OR PEELING.		6	LED	4000K	120	
C 54	GLASS SHIELD, 60W LED LAMP MODULE AND DRIVER. UL LISTED FOR WET LOCATION	PHILIPS #[MPTC-016]-55W48LED3K-G2-LE2-UNIV-HS- RCD7-GY3TX	1	LED	4000K	120	

LIGHTING FIXTURE SCHEDULE

PHASE:1 WIRE: 3		MOUNTING: BUS:		PEDESTA	٩L			
AIC: 10,000				100 A		MAIN: 100 A		
A	В	BKR	C	KT	BKR	A	В	LOAD DESCRIPTION
VA	VA	А	N	0:	А	VA	VA	
		20	1	2	20			PEDESTRIAN LIGHT
		20	3	4	20			TREE UPLIGHTS
		20	5	6	20			SPARE
0	0					0	0	
								•
0	VA							
0	VA							
TOTAL LOAD: 0 VA		0	0 A					
	0 0	AIC: 10,000 A B VA VA 0 0 0 0 VA 0 VA	AIC: 10,000 A B BKR VA VA A 20 20 20 0 0 0 0 VA	PHASE:1 WIRE: 3 MOI	PHASE:1 WIRE: 3 MOUNTII	AIC: 10,000 BUS: A B BKR CKT BKR WA VA A NO: A CVA CVA	PHASE:1 WIRE: 3 MOUNTING: PEDEST/ AIC: 10,000 BUS: 100 A A	PHASE:1 WIRE: 3 MOUNTING: PEDESTAL

METERED SERVICE PEDESTAL PANEL SCHEDULE

SCALE: NTS

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DESCRIPTION	BY	APP.		\
TABLE OF REVISIONS				





			Date:	DESIGNED:	DATE:	Г
G	Acting Section Mgr:	KENNY CHIN		BR	05/2021	/
	Acting Deputy Bureau Mgr:	1 501 5711/01/0		DRAWN:	DATE:	1//
3	Acting Deputy Bureau Mgr.	LESLEY WONG		BR	05/2021	PEG.
	Acting Bureau Mgr:	IQBAL DHAPA		CHECKED:	DATE:	$ \setminus $
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PEDESTRIAN LIGHT

LINEAR WALL LIGHTS

TREE UPLIGHTS

PROPESSIONAL PROPE	SCALE:
NO. E19679	SHEET OF SHEETS

SCALE:	STREET	POTRERO GA LANDSCAPE	

SCALE: NTS

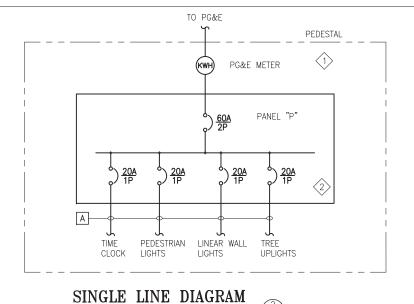
SCHEDULES AND SINGLE LINE DIAGRAM

1. 4 CHANNEL ASTRONOMICAL TIME CLOCK SHALL BE TORK #DZS400BP OR EQUAL. COORDINATE CLOCK SETTING WITH CITY REPRESENTATIVE. 2. STANDARD COLOR FOR LIGHTING FIXTURE AND POLE TO BE SELECTED BY LANDSCAPE ARCHITECT.

SHEET NOTES:

GENERAL NOTES:

- 1) METER PEDESTAL TO HOUSE PG&E METER AS WELL AS DISTRIBUTION PANEL.
- 2 SEE PANEL AND LIGHTING SCHEDULES ON THIS SHEET FOR DETAILS.



TAG FEEDER 2"C, 2#10, 1#10G 1"C, 2#10, 1#10G С 2#14, 1#14G

2#12, 1#12G

FEEDER SCHEDULE SCALE: NTS

SCALE:	POTRERO GATEWAY STREET LANDSCAPE IMPROVEMENTS

10032040 PRAWING NO. E-0.3 REV. NO.

TIME CLOCK SCHEDULE SCALE: NTS

C-

SPARE

TORK DIGITAL TIME SWITCH # DZS400BP























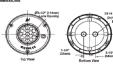




















Rock Guard (B) Lens/Lamp Protection



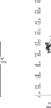


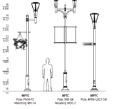


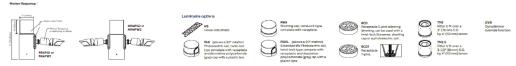




















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NO.	DATE	DESCRIPTION	BY	APP.	
		TABLE OF REVISIONS			





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CITY & COUNTY OF SAN FRANCISCO
SAN FRANCISCO PUBLIC WORKS
49 SOUTH VAN NESS AVENUE, SUITE 800
SAN FRANCISCO, CA 94103

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		Date:	DESIGNED:	DATE:	Γ
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POTRERO GATEWAY STREET LANDSCAPE IMPROVEMENTS

LIGHTING FIXTURE DETAILS

ONTRACT NO. 10032040

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