FOURTH STREET (BRADLEY AVE.) TO EIGHTH STREET (EIGHTH ST. NATURAL PARK) 100% CONSTRUCTION DOCUMENTS

GENERAL NOTES

1. INSTALL ALL IMPROVEMENTS IN ACCORDANCE WITH CITY OF SAN FERNANDO, AND COUNTY OF LOS ANGELES REQUIREMENTS. IN CASE OF DISCREPANCY BETWEEN THESE PLANS AND THE CITY OF SAN FERNANDO, AND COUNTY OF LOS ANGELES REQUIREMENTS, THE MOST STRINGENT REQUIREMENTS WILL APPLY 2. A VISIT TO THE SITE IS REQUIRED. VERIFY ALL CONDITIONS PRIOR TO SUBMITTING A PROPOSAL OF COST FOR CONSTRUCTION.

3. REVIEW THESE PLANS AND NOTES COMPLETELY. ANY DISCREPANCIES SHALL BE BROUGHT TO THE ATTENTION OF THE LANDSCAPE ARCHITECT IMMEDIATELY UPON DISCOVERY.

4. EXTRA WORK TO BE APPROVED IN WRITING BY THE OWNER PRIOR TO COMMENCEMENT OF WORK 5. IT IS THE RESPONSIBILITY OF THE SUB-CONTRACTORS TO FAMILIARIZE THEMSELVES WITH ALL GRADE

DIFFERENCES, LOCATION OF WALLS, UTILITIES, SEWERS, WATER LINES, ETC. COORDINATE WORK WITH OTHER SUB-CONTRACTORS FOR THE LOCATION AND INSTALLATION OF PIPE SLEEVES UNDER PAVING, ELECTRICAL CONNECTIONS, WATER HOOK-UPS, ETC.

6. REFER TO GEOTECH REPORT WHEN ASSESSING PROJECT DRAWINGS FOR THE FOLLOWING DOCUMENTS 7. ALL REQUIREMENTS OF THE 2016 CALIFORNIA BUILDING CODE SHALL APPLY TO THE WORK SPECIFIED HEREIN UNLESS OTHERWISE MODIFIED BY THESE DOCUMENTS.

8. OBTAIN ALL PERMITS REQUIRED TO COMPLETE THE WORK SPECIFIED PRIOR TO COMMENCEMENT OF WORK. 9. BEFORE COMMENCING ANY WORK, OBTAIN AN UNDERGROUND SERVICE I.D. BY CALLING

DIG- ALERT AT 1-800-227-2600 OR 811 TWO (2) WORKING DAYS PRIOR TO ANY EXCAVATION.

10. CONTRACTOR TO COORDINATE A PRE-CONSTRUCTION MEETING ON SITE TWO (2) WORKING DAYS PRIOR TO START OF CONSTRUCTION. NOTIFY OWNER, LANDSCAPE ARCHITECT, AND ALL

SUB-CONTRACTORS. 11. SUBMIT REQUESTS FOR MEETINGS, OBSERVATIONS, AND APPROVALS BY THE LANDSCAPE ARCHITECT TWO (2) WORKING DAYS PRIOR TO THE DATE AND TIME PROPOSED.

12. THE PREFAB TRUSS BRIDGE TO BE A DEFERRED SUBMITTAL AND THE USE OF IT WILL BE WITHHELD UNTIL PLANS, CALCS, & REVIEW ARE PERMITTED, COMPLETED AND FINALED. 13. OBTAIN CITY OF SAN FERNANDO, CITY OF LOS ANGELES, OR COUNTY OF LOS ANGELES INSPECTOR'S AND

LANDSCAPE ARCHITECT'S REVIEW AND APPROVAL OF WORK IN PROGRESS AT VARIOUS TIMES DURING CONSTRUCTION. THE FOLLOWING REVIEWS/MEETINGS ARE MANDATORY. PROVIDE TWO (2) WORKING DAYS NOTICE FOR EACH REQUESTED VISIT.

*PRE-JOB CONFERENCE

*****CONSTRUCTION STAKING *MAIN LINE PRESSURE TEST AND TRENCH DEPTHS PRIOR TO BACKFILL OF TRENCHES

*COVERAGE TEST UPON COMPLETION OF SPRINKLER INSTALLATION

*FINAL GRADING REVIEW

*PLANT MATERIAL LOCATION REVIEW

*PLANT MATERIAL APPEARANCE AND QUALITY REVIEW

*SOIL PREPARATION AND PLANTING INSTALLATION METHODS

*FINAL WALK THROUGH (AT COMPLETION OF PLANTING INSTALLATION) *FINAL WALK THROUGH (AT COMPLETION OF MAINTENANCE PERIOD)

DIRECT ANY QUESTIONS REGARDING THESE PLANS TO : Mia Lehrer + Associates 185 S. Myers St., Los Angeles, CA 90033 213-384-3844

ATTN: Jeff Hutchins Jeff@mlagreen.com

PACOIMA WASH BIKEWAY

FOR THE

MOUNTAINS RECREATION AND CONSERVATION AUTHORITY (MRCA) 570 W. AVE 26 STE. 100, LOS ANGELES, CA 90065

OWNER/CLIENT

Mountains Recreation and Conservation Authority (MRCA) 570 W. Ave 26 Ste.100, Los Angeles, CA 323-221-9944 x185 Phone: 323-441-8691 Fax: Contact: Liz Jennings, Project Manager

LANDSCAPE ARCHITECT Mia Lehrer and Associa 185 S Myers		C-101-110	TYPICAL SECTION PLAN & PROFILE DRAINAGE DETAIL
Los Angéles, CA. 90033 Phone: 213.384.38 Fax: 213.384.38 Contact: Jeff Hutchi	44 33	S-001 S-101 S-501-504	
		1100	CONSTRUCTION

CIVIL and STRUCTURAL ENGINEER TETRA TECH 17885 Von Karman, Suite 500 Irvine, CA 92614 949.809.5198 949.809.5010 Contact: Joseph Conroy, Project Manager

CLENONKS BL VO			
L-X.03	L-X.05 L-X.06 L-X.06	BIH ST	
	Thomas Brothers Maps Page 502, Grid B2, B1, C1; Page 482, Grid C7, C6, D6, D5, E5, E4		

Project Title: Pacoima Wash Bikeway

BRADLEY AVE TO PACOIMA WASH NATURAL PARK





landscape architecture ; urban design ; planning

MIA LEHRER + ASSOCIATES SFLE Starts 31. Electropeiro, 62 electro Wultillagrade (ord)

Project Team: TETRA TECH Irvine, CA 92614

17885 Von Karman, Ste. 500 tel. 949 809-5209 fax. 949 809 5010 email Joe.conroy@tetratech.com

REVISIONS:

THIS DRAWING AS AN INSTRUMENT OF SERVICE IS THE PROPERTY OF THE UNOSCAPE ARCHITECT WO MPCA MAY NOT BE REPRODUCED WITHOUT THE UNOSCAPE ARCHITECTS PERMISSION IND UNLESS THE REPRODUCTION CARRIES THE UNOSCAPE ARCHITECTS NAME. ALL DESIGN AND DIFFER INFORMATION SHOWN ON THE DRAWING ARE FOR USE ON THE SPECIFIED PROJECT ONLY AND SMALLINGT BE USED DIFFERMED WITHOUT VARITIEN PERMISSION FROM THE UNDSCAPE ARCHITECT.

WRITTEN EMENSIONS SHALL HAVE PRECEDENCE OVER SCALED, OM ENSIONS. WEIT EN EMERNENS SHALL HAVE PRECEDENCE OF & SCALED OM ENSIONS CONTRACTORS SHALL VERIFY AND SC RESPONSELE FOR ALL DMDISSIONS AND CONSTITUNE ON THE JOB AND THE LANDSCAPE ARCHITECT IS TO BE INFORMED OF ANY VARIATIONS FROM THE DMDISSIONS AND CONDITIONS SHOWN ON THE DRAWINGS, EVISTING CONDITIONS AND LOCATIONS OF UTILITIES HAVE NOT SEEN VERIFIED NOEPENDENTLY, IT SHALL SE THE RESPONSIENTLY OF THE CONTRACTOR SEFORE SEDMINAD WORK TO DETERMIN THE EAACT LOCATION OF ALL EASENEVITS AND EXISTING UTILITIES THE CONTRACTOR SHALL BE RESPONDED. FOR SERVICE ALL PERMITS AND ENGINEERING RECURED NOT INCLUDED IN THESE DRAWNOS, CML, STRUCTUR NO WEDHANICAL ENGINEERING BY OTHERS, GRADING AND CRARVAGE BY

SHOP DRAVEVSS MUST BE SUBMITTED TO THE LANDSCAPE APCHILECT FOR REVIEW BEFORE PROCEEDING WITH PABRICATION.



Sheet Title COVER SHEET

9/6/17

Date

Project No File Name PAC2014

Sheet Number

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KEY MAP

COVER SHEET

GENERAL NOTES

TYPICAL SECTIONS

DRAINAGE DETAILS

PEDESTRIAN BRIDGE

CONSTRUCTION LEGEND

CONSTRUCTION DETAILS

CONSTRUCTION DETAILS

GENERAL STRUCTURAL PLAN

TITLE SHEET

L1.01-L1.06 CONSTRUCTION PLAN

L0.00

G-001

G-002

L2.01

L2.02





D'	1000'	
- Th		

CONSTRUCTION NOTES

1. DRAWING IS DIAGRAMMATIC. VERIFY ALL CONDITIONS AND LOCATIONS ON SITE PRIOR TO THE START OF CONSTRUCTION. NOTIFY LANDSCAPE ARCHITECT IMMEDIATELY IF ANY ERRORS OR DISCREPANCIES ARE FOUND, BEFORE PROCEEDING WITH ANY WORK.

2. DO NOT SCALE DRAWINGS. USE DIMENSIONS AS INDICATED ON PLAN.

3. DO NOT WILLFULLY PROCEED WITH CONSTRUCTION WHEN IT IS OBVIOUS THAT OBSTRUCTIONS AND/OR GRADE DIFFERENCES EXIST THAT MAY NOT HAVE BEEN APPARENT DURING DESIGN. OBTAIN DIRECTION BEFORE PROCEEDING WITH CONSTRUCTION IN SUCH CASES.

4. THE LOCATION OF ALL SERVICE RUNS, SUCH AS WATER SUPPLY, ELECTRICAL (OVERHEAD AND UNDERGROUND), TELEPHONE, SANITARY SEWER, ETC. SHOULD BE ASCERTAINED BEFORE WORK IS STARTED. WHERE THEY WILL BE AFFECTED BY EXCAVATION OR WHERE MACHINES MAY BE WORKING NEARBY, THEY SHOULD BE CAREFULLY SEALED, PROTECTED, OR DIVERTED. NOTIFY LANDSCAPE ARCHITECT OF ANY CONFLICT WITH PROPOSED IMPROVEMENTS.

5. COORDINATE ALL UTILITY RUNS AND INSTALLATIONS (EXISTING AND NEW) PRIOR TO PAVING INSTALLATION. VERIFY ALL SLEEVES AND ELECTRIC SOURCES FOR IRRIGATION CLOCK AND LIGHTING WITH PROPER SUB-CONTRACTORS.

6. CLEAN OUT AND ADJUST EXISTING DRAINS TO ACCOMMODATE PROPOSED DRAINAGE. ADJUST LATERAL DRAIN LINES AS NECESSARY TO BEST LINK EXISTING MAIN LINES.

7. OBTAIN INSPECTION AND APPROVAL OF ALL FORMS PRIOR TO PLACING ASPHALT.

8. TRANSITIONS FROM EXISTING PAVING TO NEW PAVING SHALL BE FLUSH.

9. REFER TO PLANS AND GENERAL NOTES FOR ADDITIONAL NOTES AND INFORMATION REGARDING THE CONSTRUCTION OF THIS PROJECT.

11. BACKFILL AND COMPACT BEHIND ALL WALLS AND MASONRY STRUCTURES, AS REQUIRED ON DRAWINGS AND DETAILS. BACKFILL PLANTERS WITH TOP GRADE SANDY-LOAM TOPSOIL PER PLANTING NOTES.

12. CLEAN UP AND REMOVE ALL DEBRIS FROM SITE PRIOR TO REQUESTING FINAL APPROVAL. GRADE ALL AREAS WITHIN .5 INCH OF FINISH GRADES. NOTE AREAS OF ADDITIONAL GRADING SHOWN. COORDINATE WITH LANDSCAPE ARCHITECT THE FINAL FORM OF LANDSCAPE MOUNDS.

10. CONSTRUCT ALL WALLS, PAVING, DRAIN LINES, SLEEVING, ETC. PER PLAN AND DETAILS.

REFERENCE NOTES SCHEDULE

<u>SYMBOL</u>	AMENITIES DESCRIPTION	QTY	DETAIL	MANUFACTURER	MATERIALS	FINISH	COLOR	REMARKS	CONTACT
A-101	12X90 BRIDGE	1	3/L2.01	EXCEL	FAUX BOW	GALVANIZED STEEL			JODI SEIDL (320) 762-1368
A-103	REMOVABLE BOLLARD	18	1/L2.02	BLOCKAIDES, INC.	STEEL	POWDER COATED	BLACK	KITCHENER HEAD	909-217-3412 X102
SYMBOL	FENCE DESCRIPTION	QTY	DETAIL	MANUFACTURER	MATERIAL	FINISH	COLOR	CONTACT	
F-101	METAL FENCE	14,049 LF	1/L2.01	DESIGNMASTER	FORTE	POWDER COAT	BLACK	GILBERT CECCETTINI (858) 335-7180	
SYMBOL	GATE DESCRIPTION	QTY	DETAIL	MANUFACTURER	MATERIALS	<u>FINISH</u>	COLOR	CONTACT	
G-101	VEHICULAR GATE	14	2/L2.02	DESIGNMASTER	FORTE	POWDER COAT	BLACK	GILBERT CECCETTINI (858) 335-7180	
SYMBOL	LIGHTING DESCRIPTION	QTY	DETAIL	MANUFACTURER	MODEL	FINISH	COLOR	CONTACT	
L-101	LIGHT POLE	126	3/L2.02	SOL	TPM SERIES	POWDERCOAT	BRONZE	SCOTT DOUGLAS (772) 286-9461	
SYMBOL	PAVING DESCRIPTION	QTY	DETAIL	MATERIALS	REMARKS				
P-101	ASPHALT PAVING	65,308 SF	2/L2.01	ASPHALT	SEE CIVIL DWG				
SYMBOL	WALL DESCRIPTION	QTY	DETAIL	MATERIALS	FINISH	COLOR	REMARKS		
W-101	RETAINING WALL	400 LF		CONCRETE	SACRIFICIAL COATING	WHITE	SEE CIVIL DWG		

Project Title: Pacoima Wash Bikeway

BRADLEY AVE TO PACOIMA WASH NATURAL PARK



MIA LEHRER + ASSOCIATES 185 S. Myers St., Los Angeles, CA 90033

Project Team:

www.**mlagreen**.com

TETRA TECH 17885 Von Karman, Ste. 500 Irvine, CA 92614 tel: 949.809.5198 fax: 949.809.5010 email: Joe.Dietz@tetratech.com

REVISIONS:

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THE REPRODUCTION CARRIES THE LANDSCAPE ARCHITECT'S NAME. ALL DESIGN ND OTHER INFORMATION SHOWN ON THE DRAWING ARE FOR USE ON THE SPECIFIED PROJECT ONLY AND SHALL NOT BE USED OTHERWISE WITHOUT WRITTEN PERMISSION FROM THE LANDSCAPE RCHITECT. WRITTEN DIMENSIONS SHALL HAVE PRECEDENCE OVER SCALED DIMENSIONS. CONTRACTORS SHALL VERIFY AND BE RESPONSIBLE

FOR ALL DIMENSIONS AND CONDITIONS ON THE JOB AND THE LANDSCAPE ARCHITECT IS TO BE INFORMED OF ANY VARIATIONS FROM THE DIMENSIONS AND CONDITIONS SHOWN ON THE DRAWINGS. EXISTING CONDITIONS AND LOCATIONS OF UTILITIES HAVE NOT BEEN VERIFIED INDEPENDENTLY. IT SHALL BE THE RESPONSIBILITY OF THE CONTRACTOR BEFORE BEGINNING WORK TO DETERMIN THE EXACT LOCATION OF ALL EASEMENTS AND EXISTING UTILITIES. THE CONTRACTOR SHALL BE RESPONSIBLE FOR SERVING ALL PERMITS AND ENGINEERING REQUIRED NOT INCLUDED IN THESE DRAWINGS. CIVIL, STRUCTURA AND MECHANICAL ENGINEERING BY OTHERS. GRADING AND DRAINAGE BY

SHOP DRAWINGS MUST BE SUBMITTED TO THE LANDSCAPE ARCHITECT FOR REVIEW BEFORE PROCEEDING WITH FABRICATION.



Sheet Title: CONSTRUCTON NOTES & SCHEDULE

Date:

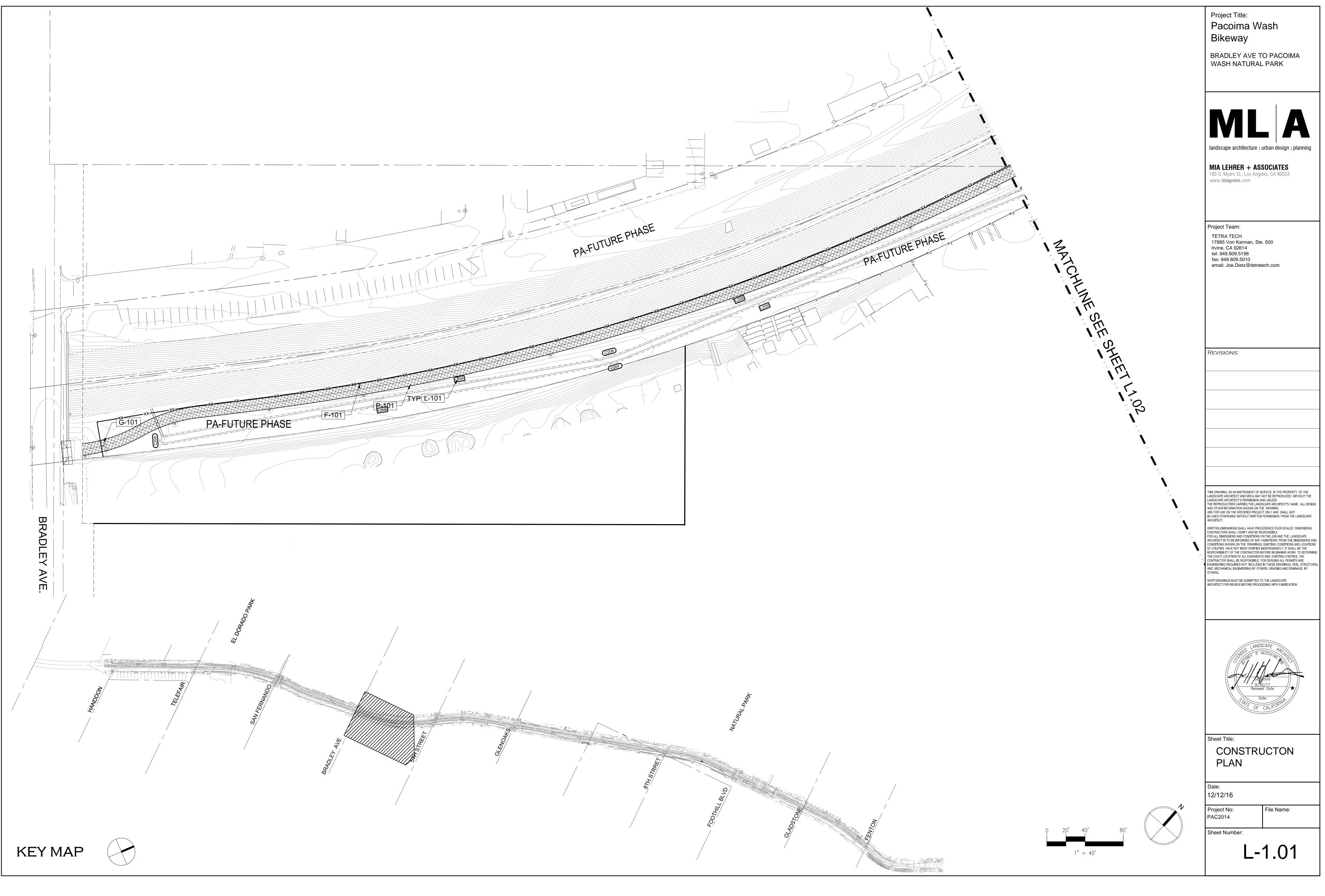
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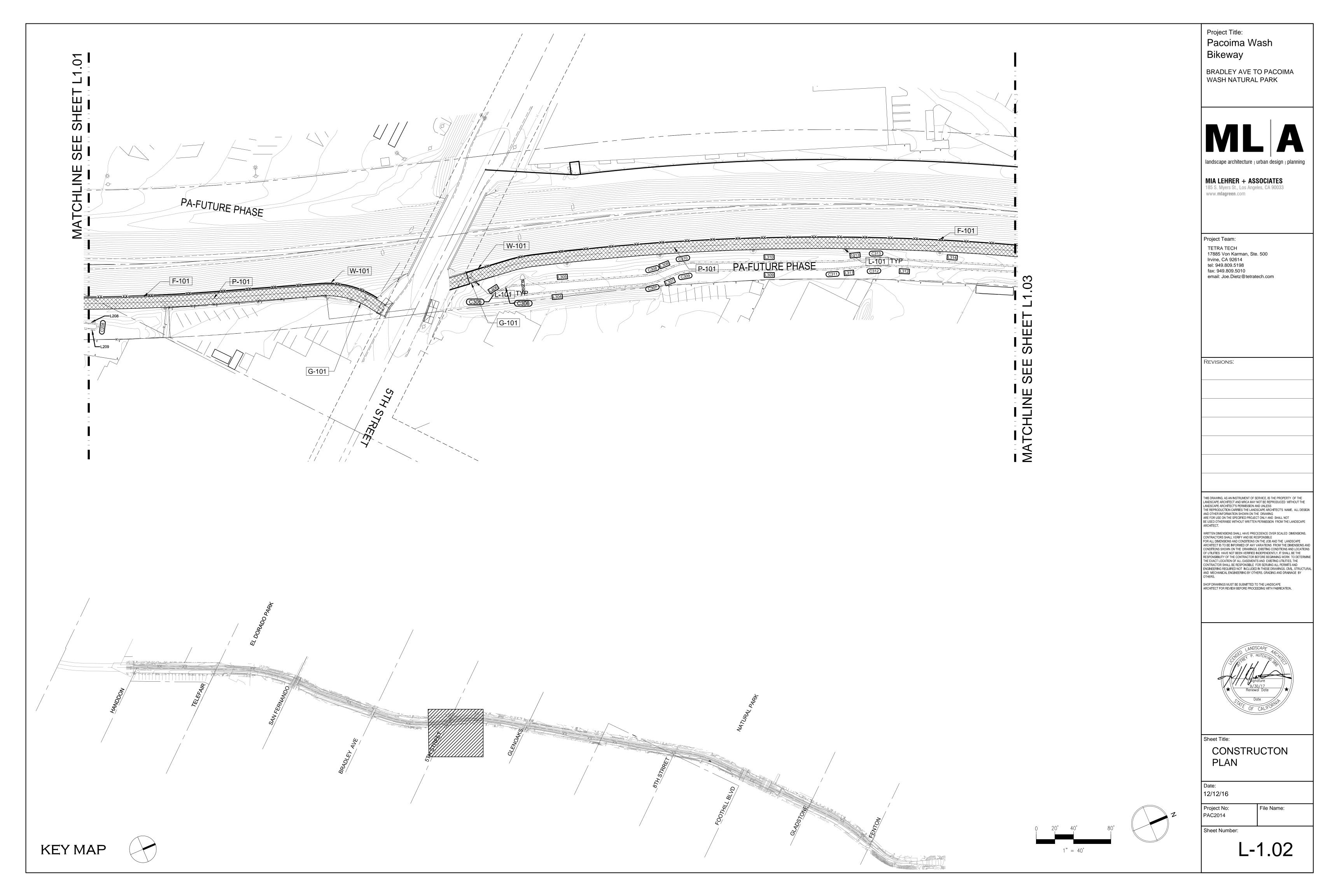
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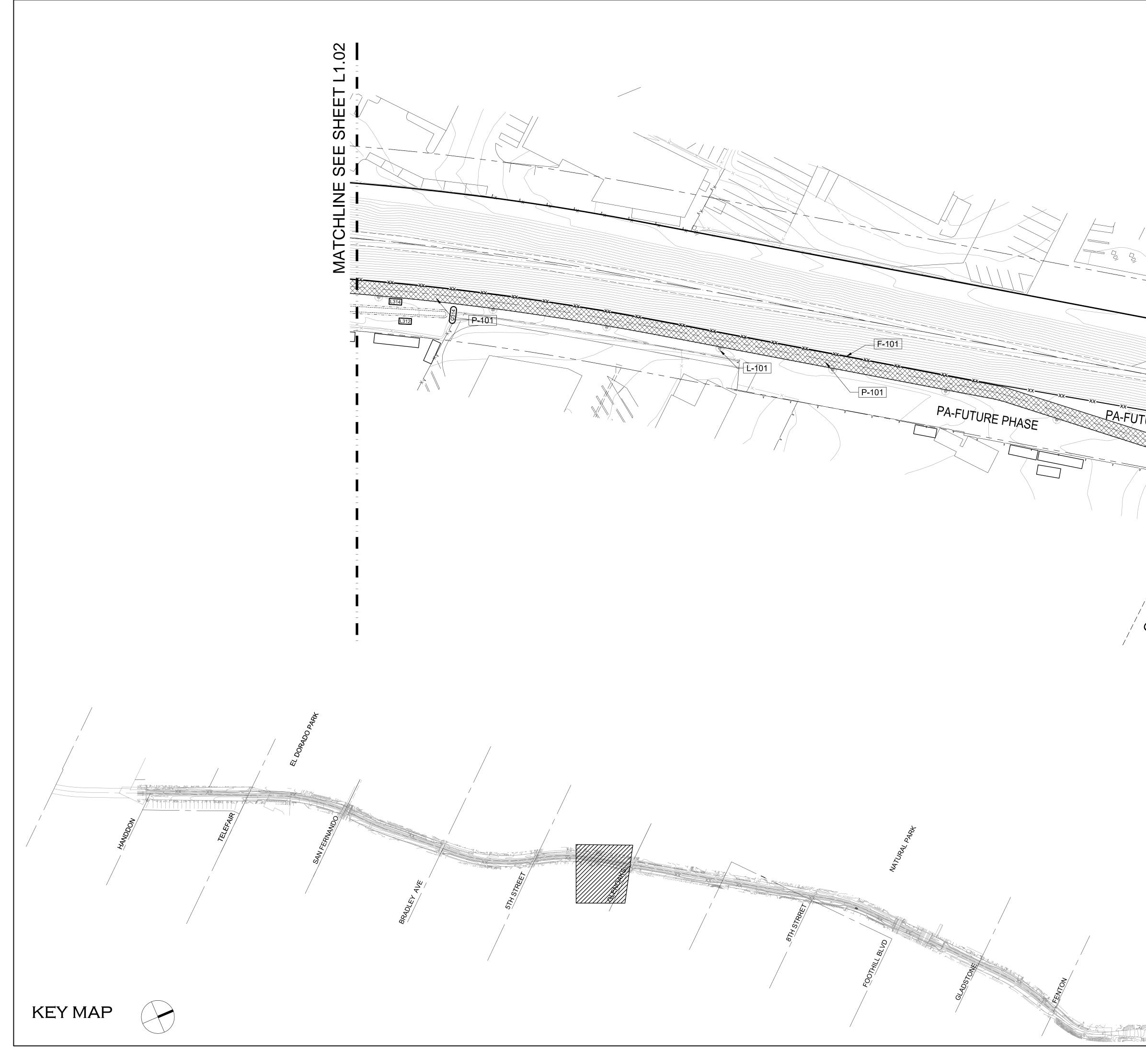
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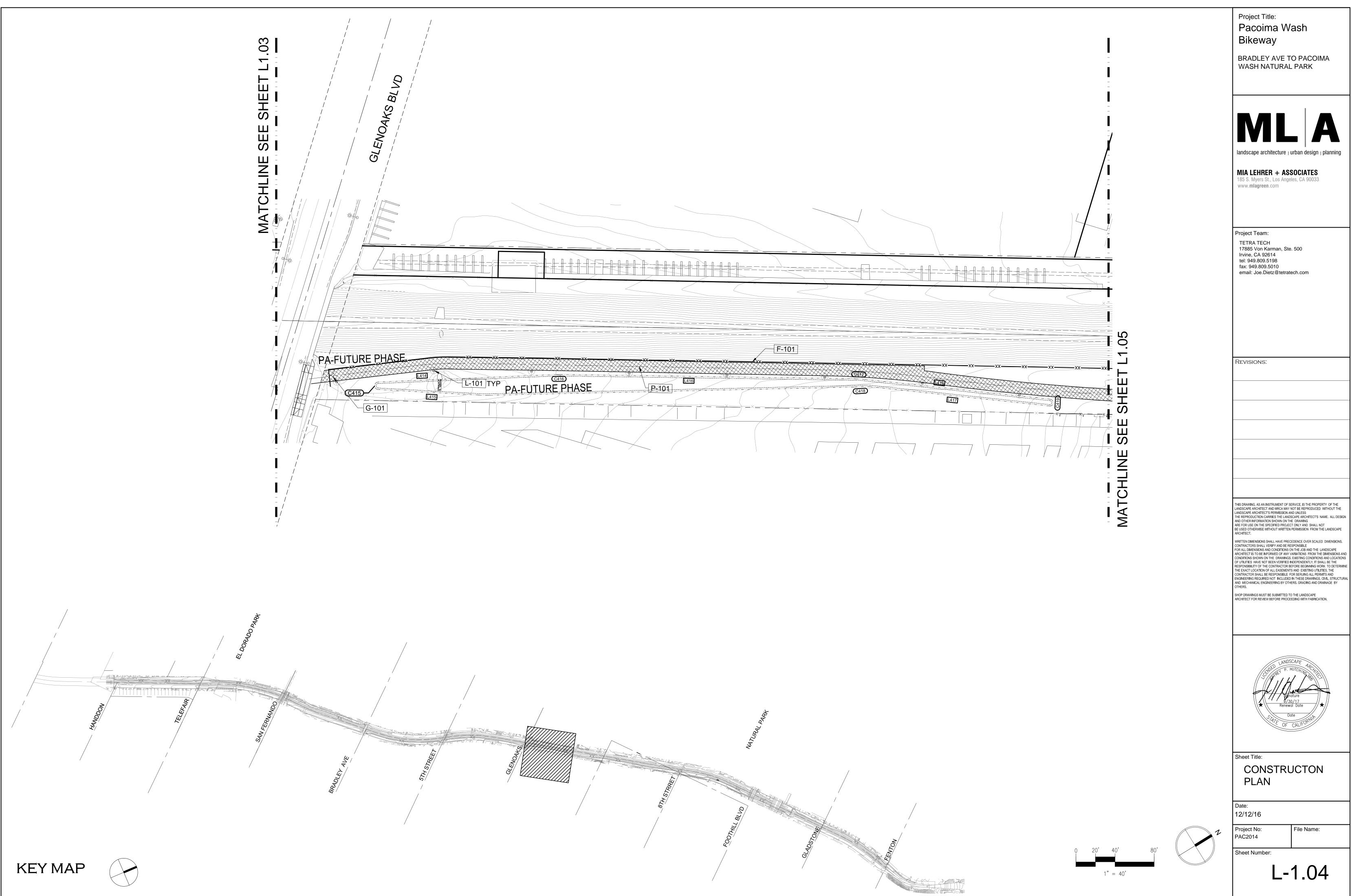
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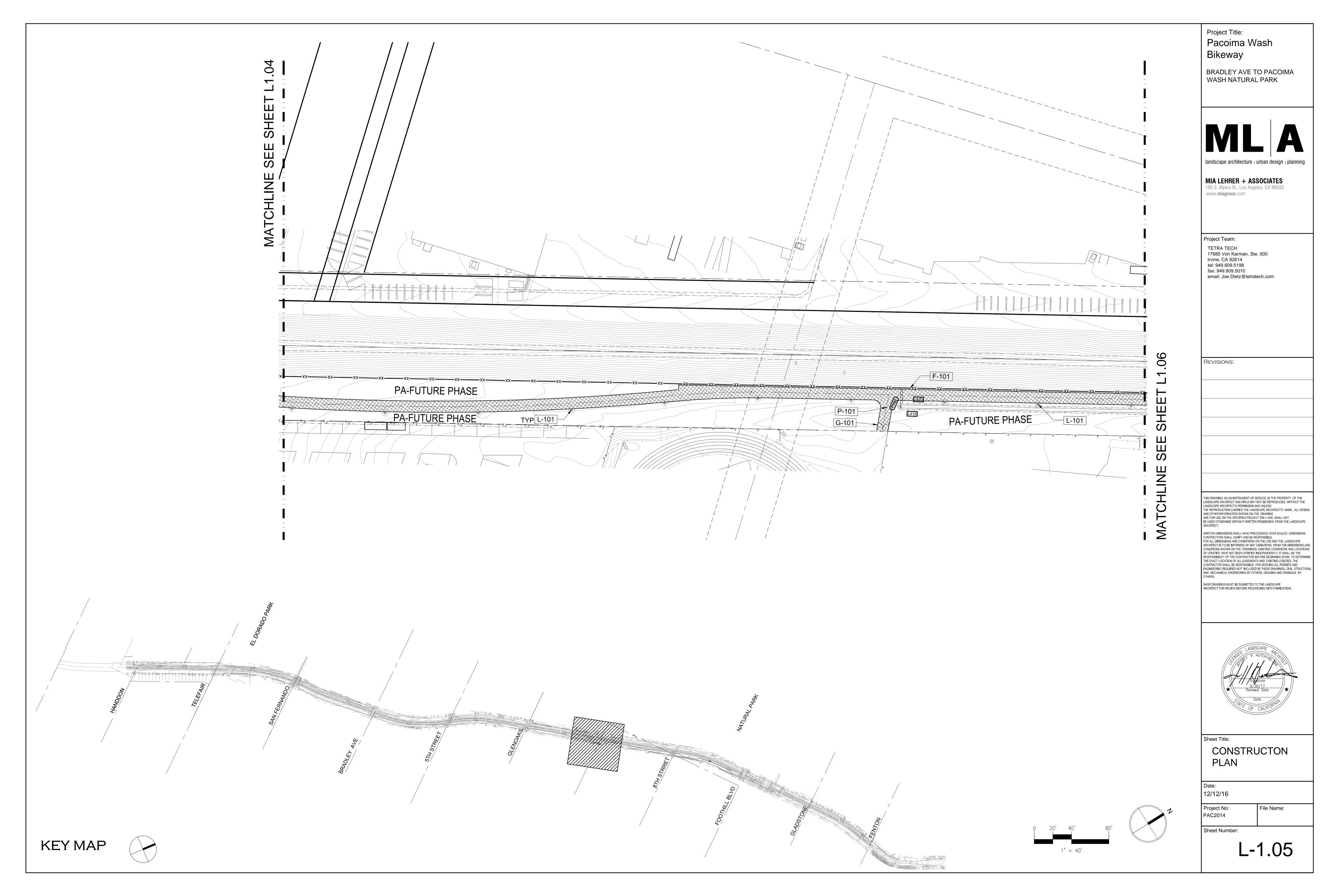


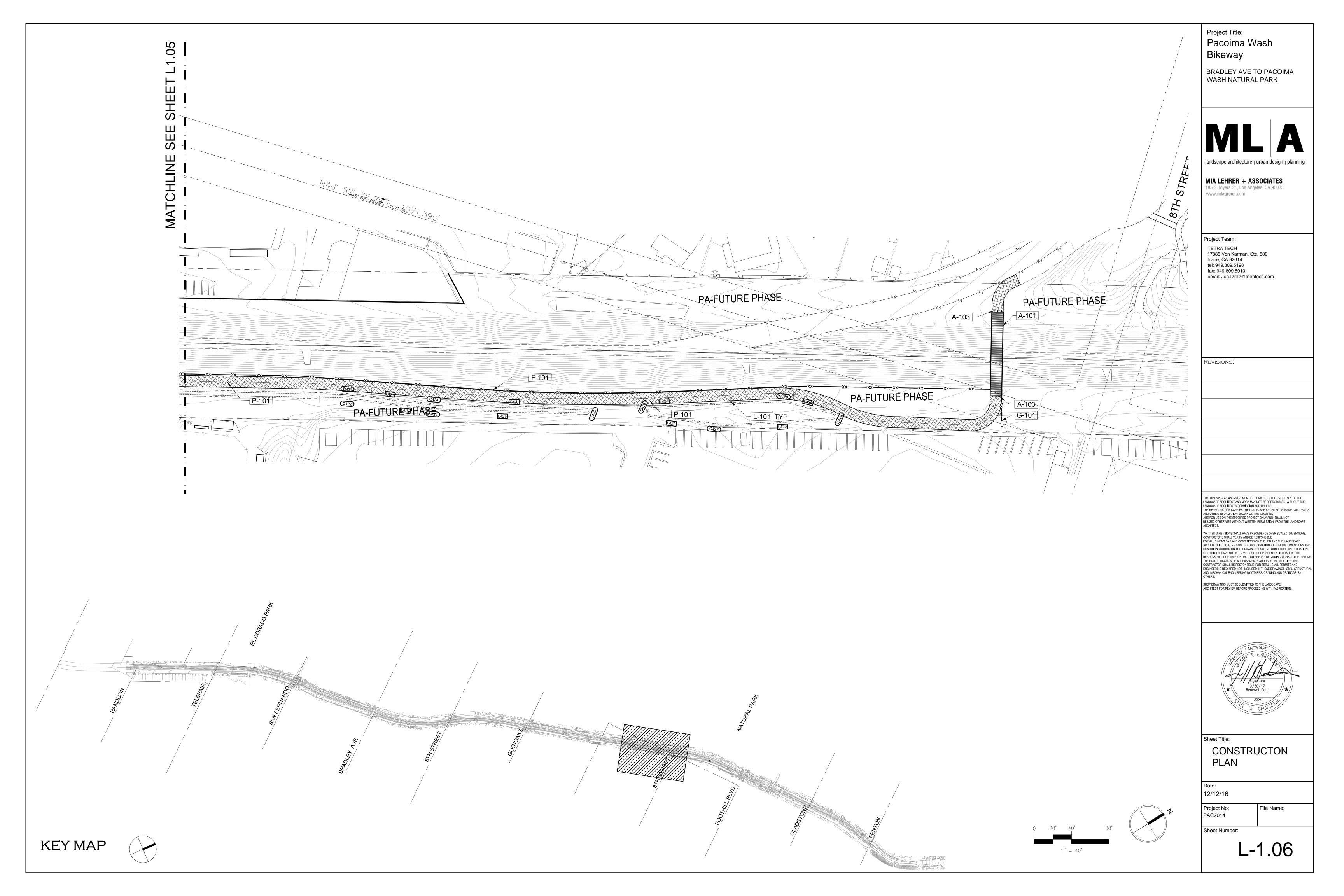


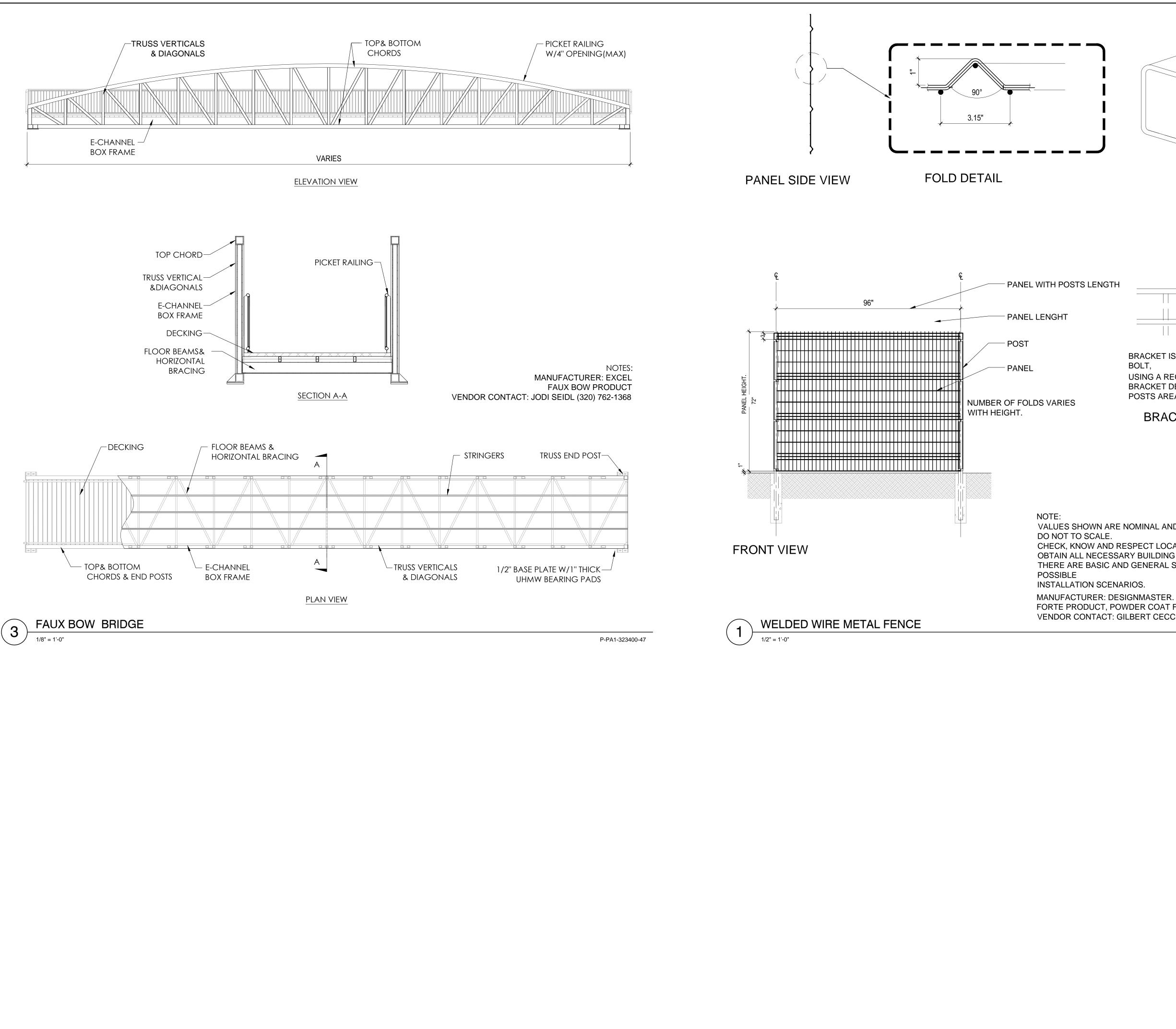


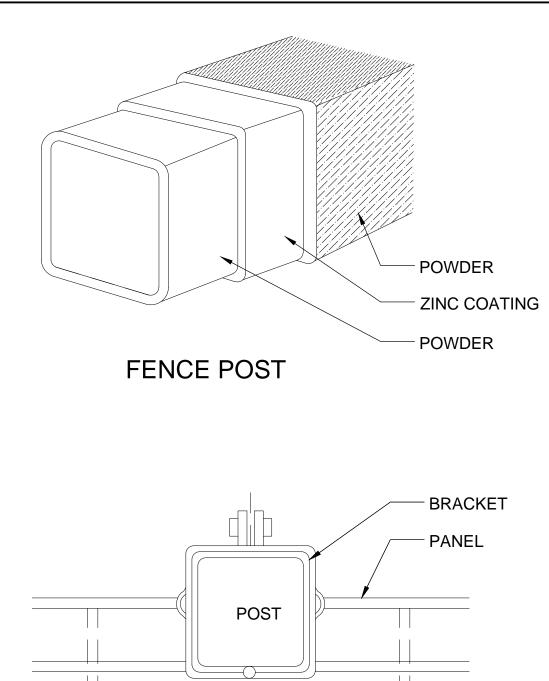
		Project Title: Pacoima Wash Bikeway BRADLEY AVE TO PACOIMA WASH NATURAL PARK MASH NATURAL PARK
		Iandscape architecture urban design planning MIA LEHRER + ASSOCIATES 185 S. Myers St., Los Angeles, CA 90033 www.mlagreen.com Project Team: TETRA TECH
		17885 Von Karman, Ste. 500 Irvine, CA 92614 tel: 949.809.5198 fax: 949.809.5010 email: Joe.Dietz@tetratech.com
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MATCHLINE SE		THIS DRAWING, AS AN INSTRUMENT OF SERVICE, IS THE PROPERTY OF THE LANDSCAPE ARCHITECT AND MRCA MAY NOT BE REPRODUCED WITHOUT THE LANDSCAPE ARCHITECTS PERMISSION AND UNLESS THE REPRODUCTION CARRIES THE LANDSCAPE ARCHITECTS NAME. ALL DESIGN AND OTHER INFORMATION SHOWN ON THE DRAWING ARE FOR USE ON THE SPECIFIED PROJECT ONLY AND SHALL NOT BE USED OTHERWISE WITHOUT WRITTEN PERMISSION FROM THE LANDSCAPE ARCHITECT. WRITTEN DIMENSIONS SHALL HAVE PRECEDENCE OVER SCALED DIMENSIONS. CONTRACTORS SHALL VERIFY AND BE RESPONSIBLE FOR ALL DIMENSIONS AND CONDITIONS ON THE JOB AND THE LANDSCAPE ARCHITECT IS TO BE INFORMED OF ANY VARIATIONS FROM THE DIMENSIONS AND CONDITIONS SHOWN ON THE DRAWINGS. EXISTING CONDITIONS AND LOCATIONS OF UTILITES HAVE NOT BEEN VERIFIED INDEPENDENTLY. IT SHALL BE THE RESPONSIBILITY OF THE CONTRACTOR BEFORE BEGINNING WORK TO DETERMINE THE EXACT LOCATION OF ALL EASEMENTS AND EXISTING UTILITIES. THE CONTRACTOR SHALL BE RESPONSIBLE FOR SERVING ALL PERMITS AND ENGINEERING REQUIRED NOT INCLUDED IN THESE DRAWINGS. CIVIL, STRUCTURAL AND MECHANICAL ENGINEERING BY OTHERS. GRADING AND DRAINAGE BY OTHERS.
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		Sheet Title: CONSTRUCTON PLAN
$ \begin{array}{cccccccccccccccccccccccccccccccccccc$	Z	Date: 12/12/16 Project No: PAC2014 Sheet Number: L-1.03











BRACKET IS LOCKED WITH 1 $\frac{1}{4}$ "X1 $\frac{1}{4}$ " STAINLESS STEEL NUT AND BOLT,

USING A REGULAR $\frac{7}{16}$ " WRENCH. BRACKET DESIGN ALLOWS ATTACHING THE PANEL TO DIERENT POSTS AREAS AND POSITIONS.

BRACKET

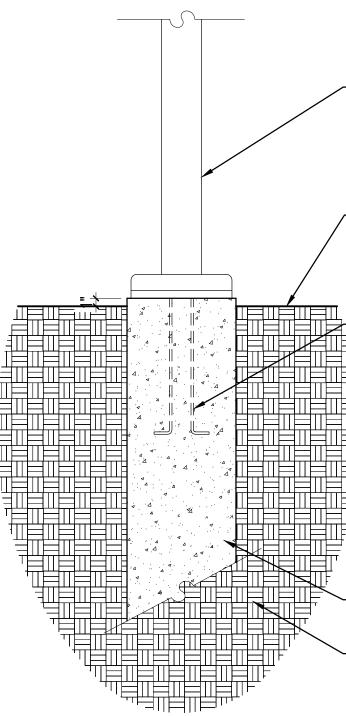
VALUES SHOWN ARE NOMINAL AND NOT TO BE USED FOR INSTALLATION PURPOSES.

CHECK, KNOW AND RESPECT LOCAL BUILDING CODES WHERE APPLICABLE OBTAIN ALL NECESSARY BUILDING PERMITS. THERE ARE BASIC AND GENERAL SPECIFICATION AND THEY DO NOT COVER ALL

FORTE PRODUCT, POWDER COAT FINISH, BLACK COLOR VENDOR CONTACT: GILBERT CECCHETTINI (858) 335-7180

P-PA1-323119-04

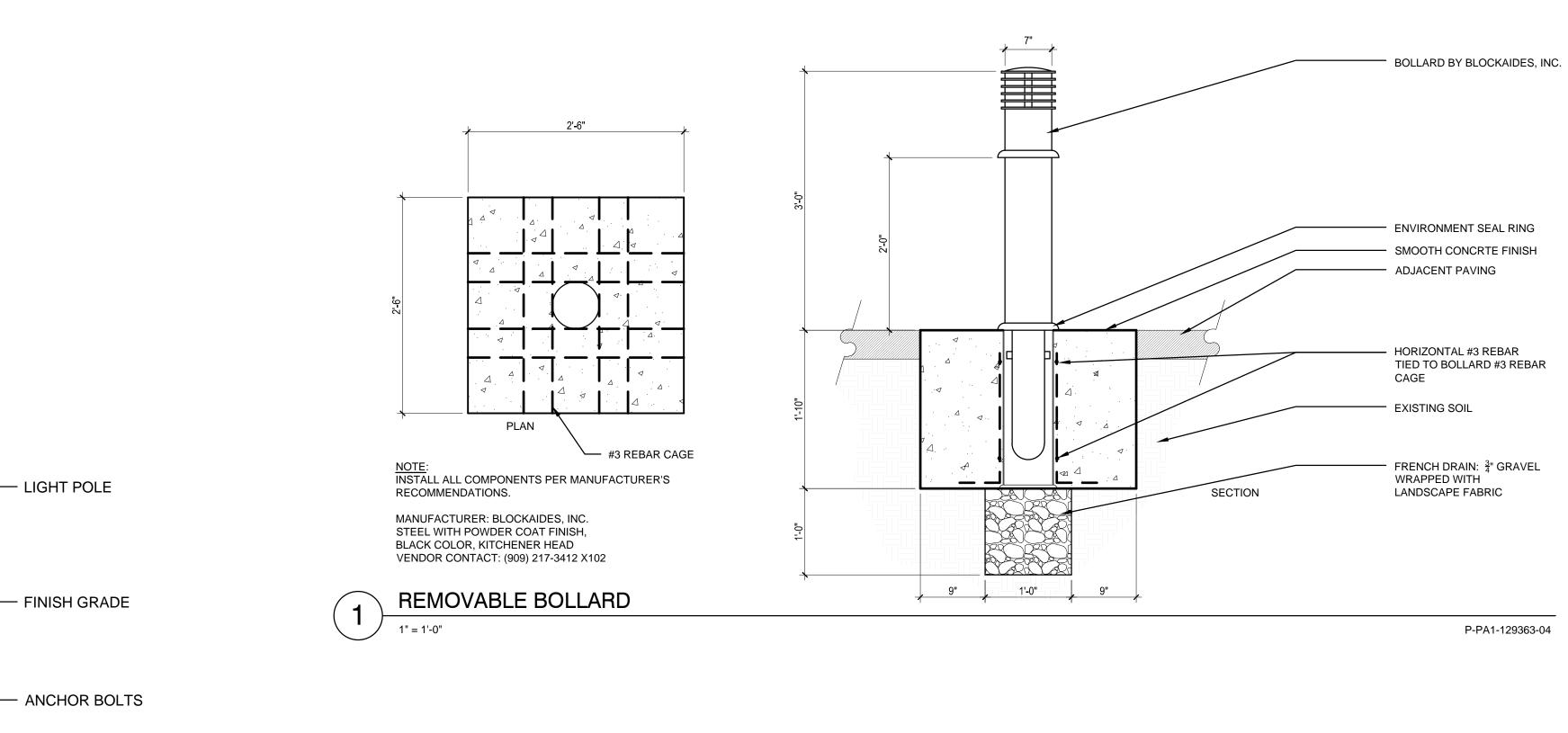
	Project Title: Pacoima Wash Bikeway
	BRADLEY AVE TO PACOIMA WASH NATURAL PARK
	Image: Market and scape architecture urban design planning
	Project Team: TETRA TECH 17885 Von Karman, Ste. 500 Irvine, CA 92614 tel: 949.809.5198 fax: 949.809.5010 email: Joe.Dietz@tetratech.com
	REVISIONS:
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	Date: 12/12/16
	Project No: File Name: PAC2014
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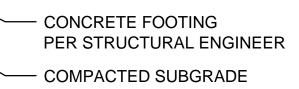
<u>NOTE</u>: INSTALL ALL COMPONENTS PER MANUFACTURER'S RECOMMENDATIONS.

MANUFACTURER: SOL. TPM SERIES PRODUCT, POWDER COAT FINISH, BRONZE COLOR 778xx-1 18" MOUNTING ARM VENDOR CONTACT: SCOTT DOUGLAS (772) 286-9461



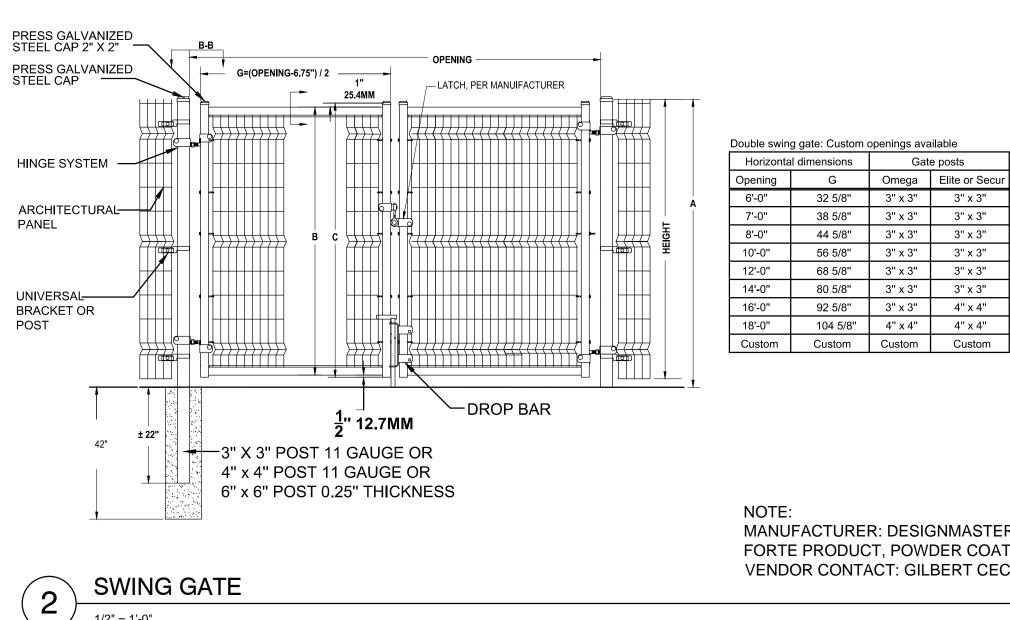






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1/2" = 1'-0"



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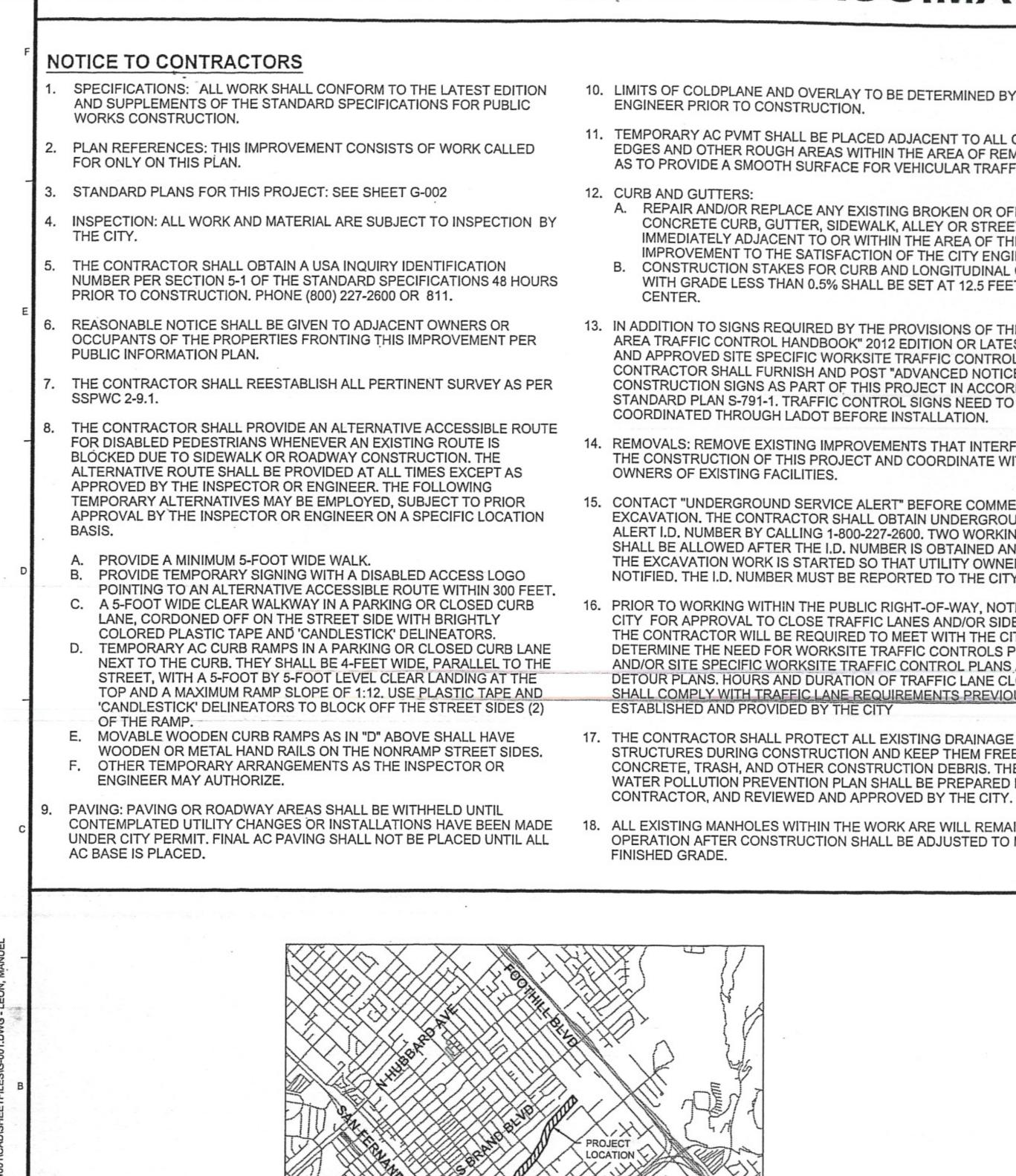
Gate	e posts	Vertical dimensions				
Omega	Elite or Secur	Height	А	В	С	
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3" x 3"	3" x 3"	5'-1"	5'-3 <u>1</u> ''	57- <u>1</u> "	59"	
3" x 3"	3" x 3"	5'-10"	6'- <u>1</u> ''	66- <u>1</u> "	68"	
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4" x 4"	4" x 4"					

MANUFACTURER: DESIGNMASTER.

FORTE PRODUCT, POWDER COAT FINISH, BLACK COLOR VENDOR CONTACT: GILBERT CECCHETTINI (858) 335-7180

P-PA1-323126-04

Project Title: Pacoima Wash Bikeway
BRADLEY AVE TO PACOIMA WASH NATURAL PARK
Indscape architecture urban design planning
MIA LEHRER + ASSOCIATES 185 S. Myers St., Los Angeles, CA 90033 www.mlagreen.com
Project Team: TETRA TECH 17885 Von Karman, Ste. 500 Irvine, CA 92614 tel: 949.809.5198 fax: 949.809.5010 email: Joe.Dietz@tetratech.com
REVISIONS:
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Sheet Title: CONSTRUCTON DETAILS
Date: 12/12/16 Project No: File Name: PAC2014
Sheet Number:



THOMAS BROTHERS MAPS - PAGE 502, GRID B2, B1, C1; PAGE 482, GRID C7, C6, D6, D5, E5, E4 NOT TO SCALE

VICINITY MAP

PACOIMA WASH BIKEWAY

10. LIMITS OF COLDPLANE AND OVERLAY TO BE DETERMINED BY THE CIT

11. TEMPORARY AC PVMT SHALL BE PLACED ADJACENT TO ALL CONCRETE EDGES AND OTHER ROUGH AREAS WITHIN THE AREA OF REMOVAL, SO AS TO PROVIDE A SMOOTH SURFACE FOR VEHICULAR TRAFFIC

A. REPAIR AND/OR REPLACE ANY EXISTING BROKEN OR OFF GRADE CONCRETE CURB, GUTTER, SIDEWALK, ALLEY OR STREET PAVEMENT IMMEDIATELY ADJACENT TO OR WITHIN THE AREA OF THIS IMPROVEMENT TO THE SATISFACTION OF THE CITY ENGINEER CONSTRUCTION STAKES FOR CURB AND LONGITUDINAL GUTTER, WITH GRADE LESS THAN 0.5% SHALL BE SET AT 12.5 FEET ON

13. IN ADDITION TO SIGNS REQUIRED BY THE PROVISIONS OF THE "WORK AREA TRAFFIC CONTROL HANDBOOK" 2012 EDITION OR LATEST EDITION AND APPROVED SITE SPECIFIC WORKSITE TRAFFIC CONTROL PLANS, THE CONTRACTOR SHALL FURNISH AND POST "ADVANCED NOTICE" CONSTRUCTION SIGNS AS PART OF THIS PROJECT IN ACCORDANCE WITH STANDARD PLAN S-791-1. TRAFFIC CONTROL SIGNS NEED TO BE

14. REMOVALS: REMOVE EXISTING IMPROVEMENTS THAT INTERFERE WITH THE CONSTRUCTION OF THIS PROJECT AND COORDINATE WITH ALL

15. CONTACT "UNDERGROUND SERVICE ALERT" BEFORE COMMENCING ANY EXCAVATION. THE CONTRACTOR SHALL OBTAIN UNDERGROUND SERVICE ALERT I.D. NUMBER BY CALLING 1-800-227-2600. TWO WORKING DAYS SHALL BE ALLOWED AFTER THE I.D. NUMBER IS OBTAINED AND BEFORE THE EXCAVATION WORK IS STARTED SO THAT UTILITY OWNERS CAN BE NOTIFIED. THE I.D. NUMBER MUST BE REPORTED TO THE CITY

. PRIOR TO WORKING WITHIN THE PUBLIC RIGHT-OF-WAY, NOTIFY THE CITY FOR APPROVAL TO CLOSE TRAFFIC LANES AND/OR SIDEWALKS THE CONTRACTOR WILL BE REQUIRED TO MEET WITH THE CITY TO DETERMINE THE NEED FOR WORKSITE TRAFFIC CONTROLS PER MUTCD AND/OR SITE SPECIFIC WORKSITE TRAFFIC CONTROL PLANS AND DETOUR PLANS. HOURS AND DURATION OF TRAFFIC LANE CLOSURES SHALL COMPLY WITH TRAFFIC LANE REQUIREMENTS PREVIOUSLY

STRUCTURES DURING CONSTRUCTION AND KEEP THEM FREE OF CONCRETE, TRASH, AND OTHER CONSTRUCTION DEBRIS. THE STORM WATER POLLUTION PREVENTION PLAN SHALL BE PREPARED BY THE CONTRACTOR, AND REVIEWED AND APPROVED BY THE CITY.

ALL EXISTING MANHOLES WITHIN THE WORK ARE WILL REMAIN IN OPERATION AFTER CONSTRUCTION SHALL BE ADJUSTED TO MATCH

- SURVEY BENCH MARKS:
- A. B.M NO. 03-06950, ELEV, 1130,43 YEAR 1980 SPK NE CURB GLENOAKS BLVD; 3FT NW OF BCR NW OF MACLAY ST.
- B. B.M NO. 03-05030, ELEV. 1062.878 YEAR 1980 WIRE SPK IN SW CURB BRADLEY AVE; 3 FT NW OF BC CURB RET NW OF VAUGHN ST.
- 20. SPECIAL NOTE: THE CONTRACTOR SHALL HAVE GRADE SHEETS AND DESIGN CHANGES APPROVED BY THE PRIVATE ENGINEER OF RECORD
- 21. PROPOSED CONCRETE AND ASPHALT PAVEMENT IMPROVEMENTS SHALL JOIN TO EXISTING BY SAWCUTTING.
- 22. THE FACT THAT ANY PIPE OR UNDERGROUND FACILITY IS NOT SHOWN DOES NOT RELIEVE THE CONTRACTOR OF THE RESPONSIBILITY TO ASCERTAIN THE EXISTENCE OF ANY STRUCTURE THAT MAY BE SUBJECT TO DAMAGE BY ITS OPERATIONS. IN CASE OF AN EMERGENCY OR DAMAGE TO A UTILITY, THE CONTRACTOR SHALL IMMEDIATELY NOTIFY THE CORRESPONDING UTILITY COMPANY FOR REPAIR. IF IT IS NECESSARY FOR THE CITY TO REPAIR SUCH DAMAGE, THE CONTRACTOR SHALL BE BILLED FOR AND PAY THE ACTUAL COST TO THE CITY FOR LABOR AND MATERIALS PLUS ADMINISTRATIVE COSTS
- THE CONTRACTOR SHALL VISIT THE PROJECT SITE WHEN PREPARING A BID FOR THE PROJECT. THE REMOVALS OF ALL ITEMS WHICH OBVIOUSLY MUST BE REMOVED, BUT MAY NOT BE SHOWN ON THE PLANS TO BE REMOVED, SHALL BE INCLUDED IN THE BID ITEM FOR CLEARING AND GRUBBING.
- 24. SIGNS AND MARKINGS MAINTENANCE: THE CONTRACTOR SHALL RESTORE ALL DAMAGED OR REMOVED PAVEMENT MARKINGS, MISSING OR DAMAGED SIGNS, CURB MARKINGS, STAMPED CROSSWALKS, PARKING METERS, ETC..
- 25. BUS LINE NOTIFICATIONS: THE CONTRACTOR SHALL CONTACT BUS LINE OPERATIONS AT LEAST TWO WEEKS IN ADVANCE OF ANY WORK THAT AFFECTS BUS ROUTES OR BUS STOPS. FOR BUS RE-ROUTES OR AFFECTED BUS STOPS, PLEASE CONTACT MTA, DON BAUMGARTNER (213) 922-4632.
- 26. THE CONTRACTOR SHALL EXERCISE CARE THAT NO EXCAVATED MATERIAL OR DEBRIS RESULTING FROM HIS OR HER OPERATIONS ARE DEPOSITED INTO THE PACOIMA WASH CHANNEL WATER. ANY SUCH SLOUGHED MATERIAL OR DEBRIS SHALL BE REMOVED AND DISPOSED OF AT THE CONTRACTOR'S EXPENSE. EXISTING TREES AND SHRUBBERY WHEN NOT IN DIRECT CONFLICT WITH CONSTRUCTION ACTIVITIES SHALL BE PROTECTED, UNLESS OTHERWISE NOTED.
- 27. CONSTRUCTION IN CLOSE PROXIMITY TO HIGH-VOLTAGE OVERHEAD INES SHALL BE PERFORMED IN ACCORDANCE WITH THE LATEST PROVISIONS OF ARTICLE 86, STAGE OF CALIFORNIA HIGH VOLTAGE ELECTRIC SAFETY ORDER.

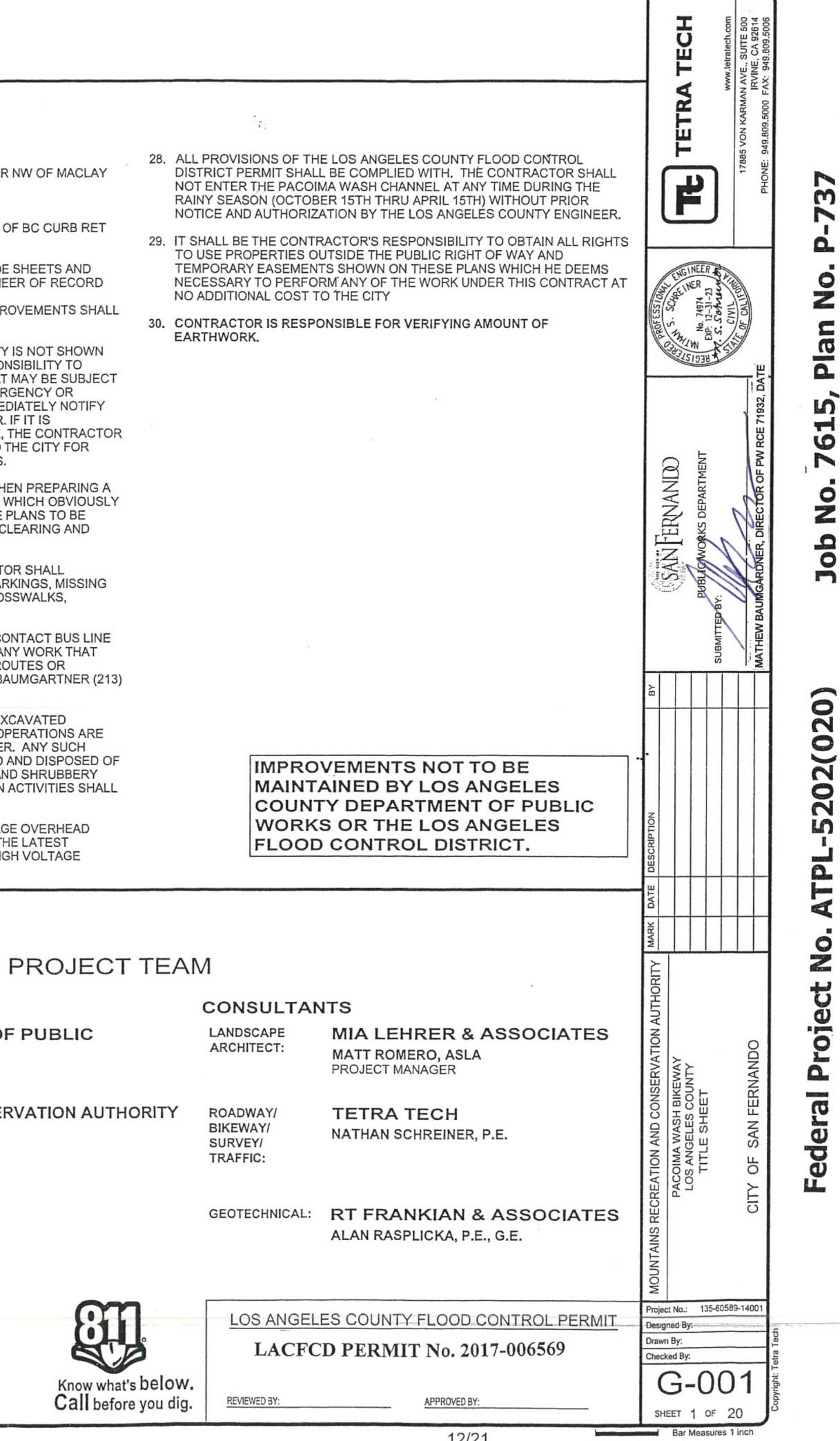
CITY OF SAN FERNANDO

PROJECT MANAGEMENT: DEPARTMENT OF PUBLIC WORKS PATSY OROZCO

MOUNTAINS RECREATION & CONSERVATION AUTHORITY

PROJECT MANAGEMENT:

SOFIA ALEMAN



12/21

	IND	EX TO SHEE	TS	Gf	ENERAL NOTES
SHEET NO.	DRAWING NO. SHE	ET TITLE		1.	THE ENGINEER SHALL E
1 OF 20 2 OF 20		E SHEET ERAL NOTES			WITH THE APPROVED PI
2 01 20		EWAY PLANS		2.	THE SOILS ENGINEER M SOILS ENGINEER SHALL
3 OF 20	C-001 BIKE	WAY TYPICAL SEC	TIONS		COMPLY WITH THE COD
4 OF 20				3.	NO WORK SHALL BE STA
5 OF 20 6 OF 20		WAY PLAN AND PR WAY PLAN AND PR		4.	DUST SHALL BE CONTRO
7 OF 20	C-104 BIKE	WAY PLAN AND PR	OFILE	5.	ALL PUBLIC STREETS SI
8 OF 20 9 OF 20		WAY PLAN AND PR WAY PLAN AND PR		6.	CONTOURS SHOWN IN F
9 OF 20 10 OF 20		AINING WALL PLAN		7	A COPY OF THE GRADIN
11 OF 20	C-108 BIKE	WAY SIGNING AND	STRIPING		SUPERINTENDENT AND
12 OF 20 13 OF 20		WAY SIGNING AND	STRIPING	8.	ANY MODIFICATIONS OF
14 OF 20		INAGE DETAILS			IMPLEMENTATION IN TH
	STR	UCTURAL PLANS		9.	SEPARATE PLANS FOR SUBMITTED PRIOR TO C
15 OF 20		ERAL STRUCTURA			OCTOBER 1 AND MAINT, INCLUDED IN THE COST
16 OF 20 17 OF 20		ST. PEDESTRIAN B ST. ANCHOR BOLT	RIDGE DETAIL AND LOCATION PLAN	10	THE FACES OF CUT AND
18 OF 20	S-502 8TH	ST. ABUTMENT LAY	OUT, SECTIONS, AND DETAILS	10.	JUTE NETTING AND EFF
19 OF 20		AINING WALL SECT		11.	A PREVENTIVE PROGRA
20 OF 20	S-504 LIGH	IT POLE FOUNDATI	ON DETAIL		INSPECT SLOPES PERIC AN EXTERMINATOR FOR
CONST	RUCTION NOT	FS		12.	WHERE NECESSARY, CH
					NETTING SHALL BE IMM (H:V) TO MINIMIZE OR CO
1 4" ASPI	HALT CONCRETE PAV	EMENT		13	ALL TRASH, RUBBLE, AN
2) 8" CMB	COMPACTED TO 95%			10.	BE REMOVED AND DISP DUMPING FEES.
3) 6' HIGH	I WELDED WIRE FENC	E BY OTHERS			
				14.	CONTRACTOR SHALL BE
	CT IN PLACE				ENTIRE CONSTRUCTION
\bigcirc				15.	THE CONTRACTOR SHA THE PUBLIC ON THE JOI
(5) 6' DOUI	BLE SWING WELDED V	VIRE GATE BY OTH	ERS		IN PARTICULAR, THOSE
6 REMOV	/E EXISTING GATE			16.	DURING THE COURSE C JOB SITE CONDITIONS I
7 RAMP					DIRECT THE WORK USIN
					RESPONSIBLE FOR ALL PORTIONS OF THE WOR
	RD BY OTHERS				WORKING HOURS. THE
9) 8" CON	C CURB A1-8 PER SPF	WC STD PLAN 120-	2		FROM THE SOLE NEGLIC
$\bigcup_{i=1}^{i}$				17.	THE CONTRACTOR SHA CONTROL OF EARTH SP
(10) 8" CON	C CURB AND GUTTER	PER SPPWC STD F	'LAN 120-2	18	THE CONTRACTOR SHA
(11) RETAIN	IING WALL			10.	SHEETING, OR OTHER P
	/E EXISTING AC TO A [DEPTH 8" BELOW E	XISTING	19.	IF UNANTICIPATED CON BRING THE CONDITION
SURFA	CE			00	
	RETE HEADWALL AND	WINGWALL. SEE DE	ETAIL C-1 ON	20.	THE CONTRACTOR SHA COMPACTION, THE CON
SHEET	C-500				TO NOT CAUSE ANY ST
(14) BIOSWA	ALE. SEE DETAIL C-6 (ON SHEET C-500 - N	OT PART OF	21.	PRIOR TO ANY CONSTR AFTER THE COMPLETIO
CONST	RUCTION				THE EVENT THAT ANY D BE REQUIRED AT THE P
	SLOPE PROTECTION.	SEE DETAIL C-7 ON	SHEET C-500	22	CITY OF SAN FERNANDO
\bigcirc				22.	CONSERVATION FACILIT
(16) PARKW	AY DRAIN PER SPPW	C STD PLAN 151-2			CHANNEL'S CAPACITY, I CONTRACTORS' OPERA
					ACCESS ROAD MUST RI
LEGEND		EXISTING	PROPOSED	23.	THE PERMITTEE ACKNO SECTIONS OF THE PATH
CENTER LINE					COUNTY DEPARTMENT ALONG PACOIMA WASH
CUT/FILL LINE				0.4	
CONTOUR		— — 1137 — —	——1137——	24.	CITY OF SAN FERNANDO MAINTENANCE OF THE F
	FLOW AND SLOPE	(2%)	2%		SEASON. WORK MUST B DURING STORM EVENTS
SIGN		<u> </u>	—	25.	CITY OF SAN FERNANDO
FENCE		x	XX		896-0594 AND WATER RE OF ACTIVITIES AT LEAS
ABBREVIA	ATIONS	GB	GRADE BREAK	26	CITY OF SAN FERNANDO
		HP IN	HIGH POINT INCH (INCHES)	20.	DOCUMENTATION, ENTI
Δ AC	DELTA ASPHALT CONCRETE	L LOL	LENGTH LAY OUT LINE		OPERATION AND MAINT RIGHTS OF WAY FOR TH
AGG APPROX	AGGREGATE APPROXIMATELY	LP	LOW POINT		U.S. ARMY CORPS OF EI SUCCESSOR OPERATO
ASTM	AMERICAN SOCIETY FO	NAINI	MAXIMUM MINIMUM		SUCCESSOR OPERATO
BC	BEGIN CURVE	NG OG	NATURAL GROUND ORIGINAL GROUND	27.	CITY OF SAN FERNAND
BEG BM	BEGIN BENCHMARK	PC PCC	POINT OF CURVATURE		LACFCD RIGHT-OF-WAY
C CFS	CUT CUBIC FEET PER SECON	חו	PORTLAND CEMENT CONCRETE	28.	CITY OF SAN FERNAND
C CMB	CENTERLINE OF ROAD	VAY PROP. DUS PT	PROPOSED POINT OF TANGENCY	20	AN INDEMNIFICATION C
	BASE	PVC PVI	POINT OF VERTICAL CURVATURE POINT OF VERTICAL INFLECTION	29.	PERMIT DOCUMENTS. IN
CONC EC	CONCRETE END CURVE	PVT	POINT OF VERTICAL TANGENCY		PERMITTEE SHALL OBT. LEASE/PERMIT PRIOR T
EG ELEV	EXISTING GROUND ELEVATION	R ROW	RADIUS RIGHT OF WAY	30	PROTECT UTILITY WITH
EP ET	EDGE OF PAVEMENT ELECTRICAL TOWER	R/W SPPWC	RIGHT OF WAY STANDARD PLANS FOR PUBLIC		PROVISIONS SHALL BE
EX		STA	WORKS CONSTRUCTION STATION		
_r ·		UIA			

STANDARD

TYPICAL

VARIES

WITH

STD

TYP

VAR

W/

32.	COMPACTION EQUIPMENT USED TO PLACE
	FORCES FROM VIBRATOR COMPACTOR.

FG

FL

FS

FT

FINISHED GRADE

FINISHED SURFACE

FLOW LINE

FOOT (FEET)

XERCISE SUFFICIENT SUPERVISORY CONTROL DURING GRADING AND CONSTRUCTION TO ENSURE COMPLIANCE ANS

UST APPROVE ALL GRADING INCLUDING THE STABILITY OF ANY SLOPES CREATED, EXISTING, OR REMAINING. THE ALSO CERTIFY THAT THE REQUIRED INSPECTIONS AND TEST HAVE BEEN PERFORMED AND THAT SUCH TESTS

RTED WITHOUT FIRST NOTIFYING THE CITY PROJECT MANAGER AT LEAST TWO WORKING DAYS IN ADVANCE.

DLLED BY WATERING TO THE SATISFACTION OF THE CITY PROJECT MANAGER.

IALL BE MAINTAINED FREE OF DUST AND MUD CAUSED BY GRADING OPERATIONS.

ARENTHESIS REPRESENT ORIGINAL GROUND.

PERMIT AND APPROVED GRADING PLANS MUST BE IN THE POSSESSION OF AN ON-SITE FOREMAN OR AVAILABLE AT THE JOBSITE TRAILER AT ALL TIMES.

, OR CHANGES TO, APPROVED GRADING PLANS MUST BE APPROVED BY THE CITY PROJECT MANAGER PRIOR TO FIELD.

EMPORARY DRAINAGE AND EROSION CONTROL MEASURES TO BE USED DURING THE RAINY SEASON MUST BE CTOBER 1. THE EROSION CONTROL DEVICES SHOWN ON SAID PLANS MUST BE INSTALLED BY NO LATER THAN INED IN OPERABLE CONDITION UNTIL APRIL 15 OF THE FOLLOWING YEAR. (17.25.030 U.D.C.) THIS WORK SHALL BE OF ALL SLOPES.

FILL SLOPES SHALL BE PREPARED AND MAINTAINED TO CONTROL EROSION. THIS CONTROL MUST CONSIST OF CTIVE PLANTING, OR OTHER DEVICES SATISFACTORY TO THE CITY PROJECT MANAGER. (17.28.020(A) U.D.C.)

1 TO PROTECT THE SLOPES FROM POTENTIAL DAMAGE FROM BURROWING RODENTS IS REQUIRED. OWNER TO DICALLY FOR EVIDENCE OF BURROWING RODENTS AND AT FIRST EVIDENCE OF THEIR EXISTENCE SHALL EMPLOY THEIR REMOVAL. (17.28.020(E) U.D.C.)

ECK DAMS, RIPRAP, OR OTHER DEVICES OR METHODS SHALL BE EMPLOYED FOR EROSION CONTROL. ALSO, JUTE DIATELY INSTALLED ON ANY SLOPES HAVING A VERTICAL HEIGHT OF FIVE FEET OR MORE AND STEEPER THAN 3:1 NTROL EROSION PROBLEMS.

DEBRIS, INCLUDING BURIED TRASH, RUBBLE, AND DEBRIS, ENCOUNTERED WITHIN THE PROJECT LIMITS SHALL SED OF OFFSITE BY THE CONTRACTOR AT AN APPROVED LOCATION. CONTRACTOR SHALL PAY ALL ASSOCIATED

RESPONSIBLE FOR SITE SECURITY AT THE STAGING AND STORAGE AREA DURING CONSTRUCTION. TEMPORARY CONTRACTOR'S SITE SECURITY PLAN SHALL BE INSTALLED AND MAINTAINED BY THE CONTRACTOR DURING THE OF THE PROJECT.

COMPLY WITH ALL LOCAL, STATE AND FEDERAL REGULATIONS RELATED TO THE SAFETY OF PERSONNEL AND SITE, INCLUDING APPLICABLE OCCUPATIONAL SAFETY AND HEALTH ADMINISTRATION (OSHA) REGULATIONS AND, DEALING WITH TRENCHING AND SHORING AS WELL AS USACE EM 385-1-1.

FALL WORK ON THE PROJECT, THE CONTRACTOR SHALL ASSUME SOLE AND COMPLETE RESPONSIBILITY FOR ALL CLUDING SAFETY OF ALL PERSONS AND SECURITY OF ALL PROPERTY. THE CONTRACTOR SHALL SUPERVISE AND G THE SKILLS AND ATTENTION UTILIZED WITHIN THE INDUSTRY. THE CONTRACTOR SHALL BE SOLELY CONSTRUCTION MEANS, METHODS, TECHNIQUES, SEQUENCES AND PROCEDURES AND FOR COORDINATING ALL UNDER THIS CONTRACT. THIS REQUIREMENT SHALL APPLY CONTINUOUSLY AND NOT BE LIMITED TO NORMAL ONTRACTOR SHALL DEFEND, INDEMNIFY AND HOLD THE CITY AND THE ENGINEER HARMLESS FROM ANY AND ALL GED, IN CONNECTION WITH THE PERFORMANCE OF THE WORK ON THIS PROJECT, EXCEPTING LIABILITY ARISING ENCE OF THE CITY OR ENGINEER.

PROTECT ALL ADJACENT PROPERTY AND EXISTING AND NEW IMPROVEMENTS, AND SHALL PROVIDE POSITIVE LLAGE, CONSTRUCTION WATER AND RUNOFF WATER FROM THE SITE.

. PERFORM EXCAVATION IN A SAFE CONDITION. THE CONTRACTOR IS SOLELY RESPONSIBLE FOR SHORING, ROTECTIVE MEASURES TO PREVENT DAMAGE TO ADJACENT PROPERTIES, STRUCTURES OR UTILITY FACILITIES.

DITIONS ARE ENCOUNTERED DURING THE COURSE OF CONSTRUCTION, THE CONTRACTOR SHALL IMMEDIATELY O THE ATTENTION OF THE CITY PROJECT MANAGER.

. BE EXTRA CAUTIOUS WORKING IN THE VICINITY OF EXISTING CHANNEL. FOR THE PURPOSE OF SOIL TRACTOR SHALL USE HAND HELD EQUIPMENT WHEN WORKING ADJACENT TO OR OVER THE CHANNEL IN ORDER UCTURAL DAMAGE TO THE CHANNEL.

ICTION WORK, THE CURRENT CONDITION OF THE EXISTING CHANNEL SHALL BE INSPECTED AND DOCUMENTED. OF CONSTRUCTION. THE CHANNEL SHALL BE RE-INSPECTED AND MONITORED FOR THE POSSIBLE DAMAGES. IN AMAGE IS IDENTIFIED AT ANY TIME, IMMEDIATE REPLACEMENT OR REPAIR TO THE SATISFACTION OF LACDPW WILL RMITTEE'S EXPENSE.

ACKNOWLEDGES THAT PACOIMA WASH FLOOD CONTROL CHANNEL IS A WORKING FLOOD CONTROL AND WATER , AND THE USE OF THE LACFCD'S RIGHT-OF-WAY FOR THE PROPOSED PROJECT SHALL NOT DECREASE THE IPOSE ANY ADDITIONAL REGULATORY BURDEN ON THE LACFCD, OR INTERFERE WITH LACFCD OR ITS FION AND MAINTENANCE ACTIVITIES OF THE CHANNEL AND ITS APPURTENANT STRUCTURES. THE CHANNEL MAIN ACCESSIBLE TO LACFCD PERSONNEL AT ALL TIMES.

WLEDGES THAT LACFCD PERFORMS PERIODIC MAINTENANCE ON AND WITHIN PACOIMA WASH, DURING WHICH MAY NEED TO BE CLOSED TO FULFILL THESE MAINTENANCE FUNCTIONS. THE LACFCD AND LOS ANGELES OF PUBLIC WORKS ARE NOT RESPONSIBLE FOR PROVIDING ALTERNATIVE BICYCLE/PEDESTRIAN ACCESS TO OR

AND ITS CONTRACTORS ACKNOWLEDGE THAT DURING CONSTRUCTION OF THE PROJECT AND SUBSEQUENT ROPOSED FEATURES, NO EQUIPMENT OR PERSONNEL SHALL BE PRESENT IN THE CHANNEL DURING STORM E PERFORMED WITH A FIVE-DAY CLEAR WEATHER FORECAST AND ENTRY TO THE CHANNEL IS NOT PERMITTED

AND ITS CONTRACTORS SHALL NOTIFY FLOOD MAINTENANCE DIVISION (HANSEN YARD) AT TELEPHONE (818) SOURCES DIVISION (OPERATIONS SECTION) AT TELEPHONE (626) 458-6177 AND PROVIDE THEM WITH A SCHEDULE 72 HOURS BEFORE STARTING ANY WORK UNDER THE PERMIT(S).

SHALL BE SOLELY RESPONSIBLE FOR COMPLYING WITH ALL LOCAL, STATE AND FEDERAL LAWS, REGULATORY LEMENTS, AND COMPLIANCE IN ITS USE OF LACFCD'S RIGHT OF WAY, INCLUDING BUT NOT LIMITED TO THE NANCE OF THE PROPOSED DEVICES INSTALLED WITHIN LACFCD'S RIGHT-OF-WAY. PLEASE NOTE LACFCD'S E PACOIMA WASH WERE ACQUIRED ACROSS CERTAIN STRETCHES OF THE CHANNEL FOR THE PURPOSES OF THE IGINEERS' CONSTRUCTION OF THE CHANNEL. THEREFORE, USE OF THIS LAND BY THE PERMITTEE AND S WILL NEED TO BE APPROVED BY THE CORPS, AS MAY ANY DESIGN PLANS OF THE PERMITTEE AND HIS RS FOR FEATURES THEY PROPOSE TO INSTALL ON THE PROPERTY.

MUST COMPLY WITH ALL OCCUPATIONAL SAFETY AGENCY DIRECTIVES WHILE PERFORMING WORK WITHIN

SHALL DEFEND AND HOLD THE LACFCD HARMLESS FOR ANY DAMAGES OR VIOLATION OF LOCAL, STATE AND SULT FROM ITS OR ITS CONTRACTORS' USE OF LACFCD'S RIGHT-OF-WAY.

AUSE TO HOLD LACFCD HARMLESS IN THE EVENT OF ANY INCIDENTS SHALL BE ADDED TO THE LEASE AND THE EVENT THE PERMITTEE TRANSFERS OPERATION AND MAINTENANCE OF THE TRAIL TO ANOTHER ENTITY, THE IN SUCCESSOR'S ACKNOWLEDGEMENT OF AND ITS AGREEMENT TO ABIDE BY THE CONDITIONS OF THIS THE TRANSFER.

THE USACE RIGHT-OF-WAY.

ADE TO PREVENT DEBRIS FROM FALLING INTO THE CHANNEL DURING CONSTRUCTION.

ENT USED TO PLACE BACKFILL BEHIND CHANNEL WALL MUST NOT EXCEED 35,000 POUNDS INCLUDING DYNAMIC

33. NO EQUIPMENT IN EXCESS OF H-10 HIGHW CHANNEL WITHIN A DISTANCE OF WALL HE

34. NO EQUIPMENT IN EXCESS OF H-20 HIGHW RUBBER-TIRED, LEGALLY LOADED EQUIPM EQUIPMENT IS USED, WOODEN MATTING SHALL NOT EXCEED 300PSF ON A SURFAC

FILL NOTES

35. ALL FILL SHALL BE COMPACTED TO THE F A. 90 PERCENT OF MAXIMUM DRY DENSI B. 93 PERCENT OF MAXIMUM DRY DENS (NOT LESS THAN 90 PERCENT OF MAX C. 95 PERCENT OF MAXIMUM DRY DENSI

THE RELATIVE COMPACTION SHALL BE DE APPLICABLE A TEST ACCEPTABLE TO THE

21. FIELD DENSITY SHALL BE DETERMINED BY PERCENT OF THE REQUIRED DENSITY TE BY SAND CONE METHOD SHALL BE UNIFO

22. SUFFICIENT TESTS OF THE FILL SOILS SHA THE FOLLOWING MINIMUM GUIDELINES: A. ONE TEST FOR EACH TWO-FOOT VER

PORTION THEREOF. D. ONE TEST IN THE VICINITY OF EACH B E. ONE TEST AT THE LOCATION OF THE SUFFICIENT TESTS OF FILL SOILS SHALL E INCLUDING SOIL TYPES AND SHEAR STREE SECTION 17.29.020(C) U.D.C.

- 23. NO FILL SHALL BE PLACED UNTIL STRIPPIN ANY) HAVE BEEN INSPECTED AND APPRO
- 24. NO ROCK OR SIMILAR MATERIAL GREATEI SUCH PLACEMENT HAVE BEEN SUBMITTEI MANAGER. (17.27.020(D) U.D.C.)
- 25. CONTINUOUS INSPECTION BY THE GEOTE FILL PLACEMENT AND COMPACTION OPER SURFACE STEEPER THAN 2:1. (17.27.020(G
- 26. CONTINUOUS INSPECTION BY THE GEOTE SUBDRAIN INSTALLATIONS. (17.27.020(B) U
- 27. FILL SLOPES IN EXCESS OF 2:1 STEEPNES BEYOND THE PROPOSED FINISH SLOPE T SLOPE SURFACE. THE EXCESS FILL IS TO PROCEDURES MAY BE USED WHEN IT IS D SLOPE, CONSTRUCTION METHOD AND OT
- 28. THE GEOTECHNICAL ENGINEER SHALL PRO THE PLACEMENT AND COMPACTION OF TH PLAN AND APPLICABLE CODE REQUIREME
- 29. THE GRADING CONTRACTOR SHALL SUBM GRADING.

INSPECTION NOTES

- 30. THE CONTRACTOR SHALL NOTIFY THE C FOLLOWING STAGES OF THE WORK:
- A. INITIAL. WHEN THE SITE HAS BEEN CL OTHERWISE PREPARED FOR FILL. NC
- B. ROUGH. WHEN APPROXIMATE FINAL AT THE TOP OF THE SLOPES; AND TH
- C. FINAL. WHEN GRADING HAS BEEN CO

ENGINEERED GRADING REQUI

31. IN ADDITION TO THE INSPECTION REQUIRE STATEMENTS SHALL BE SUBMITTED TO T

AGENCY NOTES

32. SECURE PERMISSION FROM THE DEVELOR GRADING WITHIN STREET RIGHT-OF-WAY.

33. GRADING IN FUTURE STREET RIGHT-OF-W

34. A STORMWATER POLLUTION PREVENTION TIMES. ALL MEASURES OUTLINED IN THE F THE DURATION OF THE PROJECT.

PAVEMENT MARKINGS/STRIPIN

35. ALL PAVEMENT MARKINGS/STRIPING SHAI AC PAVEMENT AND PARKING STALLS SHA THERMOPLASTIC PAINT SHALL BE USED C (DISPENSING TECHNOLOGY CORPORATIO

TOPOGRAPHIC DATA

36. TOPOGRAPHIC FEATURES SHOWN HEREC

PROJECT BENCHMARK

BENCHMARK :	CITY OF LA BENCHMARK 03-0695
	SPK NE CURB GLENOAKS BLVD;
	NW OF BCR NW OF MACLAY ST
ELEVATION:	1130.43
DATUM:	NGVD 1929

OWNER

CITY OF SAN FERNANDO 117 MACNEIL ST. SAN FERNANDO, CA 91340

DEPARTMENT: TELEPHONE:

PUBLIC WORKS (818) 898-1222 REPRESENTATIVE: PATSY OROZCO

EARTHWORK

UNCLASSIFIED EXCAVATION: 5923 CY BORROW: 481 CY

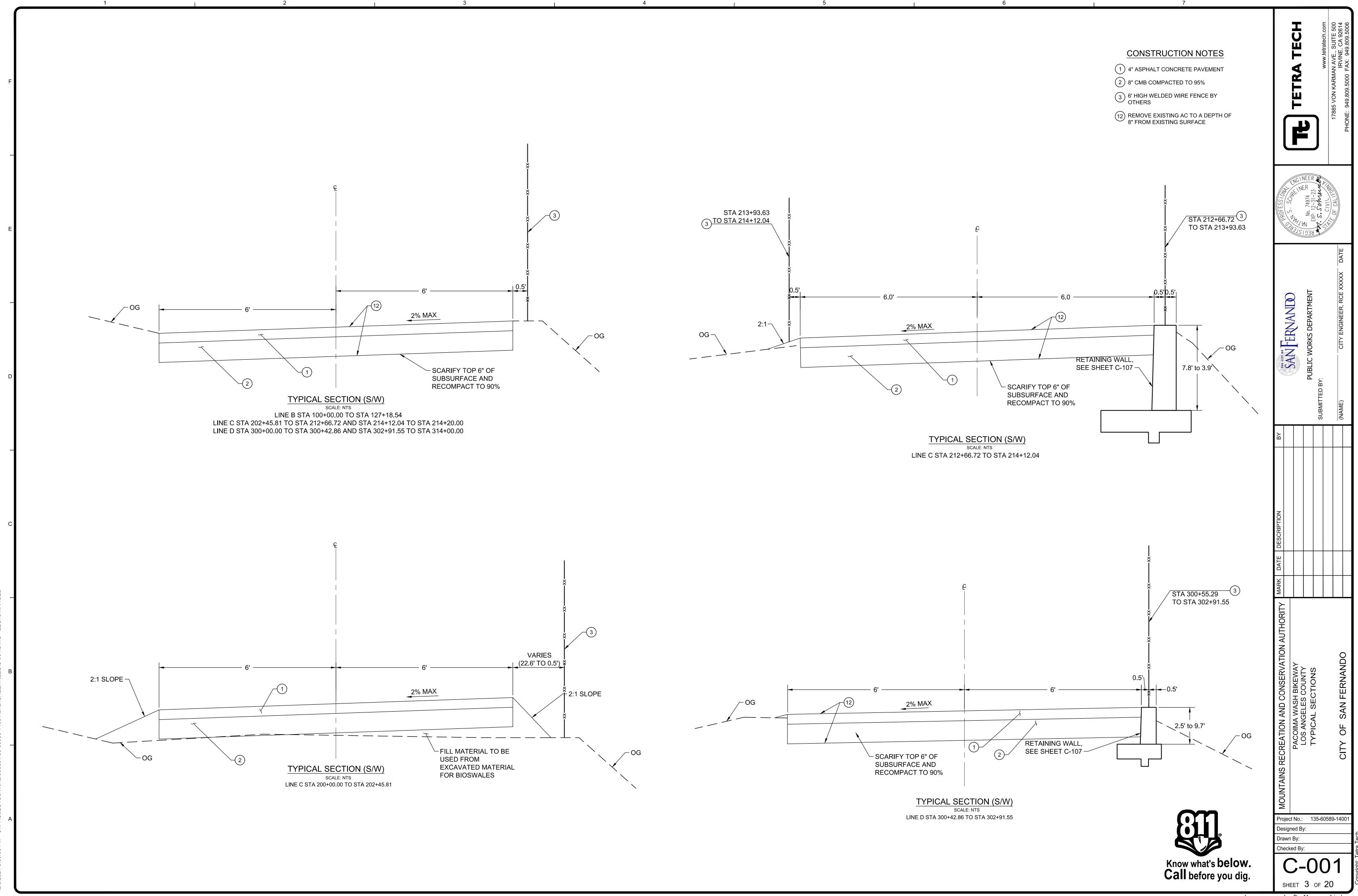
6	7		
		T	re 500 92614 9.5006
QUIPMENT IN EXCESS OF H-10 HIGHWAY LOADING (AA NNEL WITHIN A DISTANCE OF WALL HEIGHT.	SHTO), AND NO STOCKPILING OF MATERIAL WILL BE PERMITTED ALONG THE	TECH	, SUI E, CA 49,80
BER-TIRED, LEGALLY LOADED EQUIPMENT SHALL BE O	L BE PERMITTED TO OPERATE ON THE INVERT OF THE CHANNEL. ONLY PERATED ON THE EXPOSED CHANNEL INVERT. IF STEEL CRAWLER TYPE ED OVER THE INVERT IN THE OPERATING AREA. LOADS FROM TRACK VEHICLES M OF THE INVERT SLAB.		17885 VON KARMAN AVE. IRVINE VE: 949.809.5000 FAX: 9-
OTES			5 VON KARM 949.809.5000
NOT LESS THAN 90 PERCENT OF MAXIMUM DRY DENSI 95 PERCENT OF MAXIMUM DRY DENSITY IS REQUIRED (T BELOW FINISH GRADE I 40 FEET BELOW FINISH GRADE, UNLESS A LOWER RELATIVE COMPACTION TY IS JUSTIFIED BY THE GEOTECHNICAL ENGINEER. ON ALL SLOPES GREATER THAN 2:1. TM SOIL COMPACTION TEST D1557-91, WHERE APPLICABLE; WHERE NOT		17885 PHONE: 9
ENT OF THE REQUIRED DENSITY TESTS SHALL BE OB	EPTABLE TO THE CITY PROJECT MANAGER, HOWEVER, A MINIMUM OF 10 TAINED BY THE SAND CONE METHOD (ASTM D1566). THE REQUIRED 10 PERCENT ED THROUGHOUT THE DEPTHS AND LIMITS OF THE FILL.	CINFER S	
FOLLOWING MINIMUM GUIDELINES: DNE TEST FOR EACH TWO-FOOT VERTICAL LIFT. DNE TEST FOR EACH 1,000 CUBIC YARDS OF MATERIAL	DETERMINE THE RELATIVE COMPACTION OF THE FILL IN ACCORDANCE WITH PLACED. FOR EACH BUILDING SITE(LOT) IN EACH FOUR-FOOT VERTICAL LIFT OR	ROFESS/044 5. SOHATA No. 74974 20 P: 12-31-23 S. Schneum	OF CALIFORN
PORTION THEREOF. ONE TEST IN THE VICINITY OF EACH BUILDING PAD FOF ONE TEST AT THE LOCATION OF THE FINAL FILL SLOPE FICIENT TESTS OF FILL SOILS SHALL BE MADE TO VERIF	R EACH BUILDING STIE(LOT) IN EACH FOUR-FOUT VERTICAL LIFT OR REACH FOUR-FOOT VERTICAL LIFT OR PORTION THEREOF. FOR EACH BUILDING SITE(LOT) PER SAND CURVE TEST. FY COMPLIANCE OF THE SOIL PROPERTIES WITH THE DESIGN REQUIREMENTS ULTS OF SUCH TESTING SHALL BE INCLUDED IN THE REPORTS REQUIRED BY	MT WT ST	DATE
ILL SHALL BE PLACED UNTIL STRIPPING OF VEGETATIC HAVE BEEN INSPECTED AND APPROVED BY THE GEOT	DN, REMOVAL OF UNSUITABLE SOILS, AND INSTALLATION OF SUBDRAINS (IF FECHNICAL ENGINEER. (17.27.020(B) U.D.C.)		XXXXX
	IN DIAMETER WILL BE PLACED IN THE FILL UNLESS RECOMMENDATIONS FOR CHNICAL ENGINEER AND APPROVED IN ADVANCE BY THE CITY PROJECT		R, RCE XX)
	ER OR HIS RESPONSIBLE REPRESENTATIVE SHALL BE PROVIDED DURING ALL TILLS HAVE A VERTICAL HEIGHT OR DEPTH GREATER THAN 30 FEET OR SLOPE	FERNAND ILIC WORKS DEPARTMENT	ENGINEEF
INUOUS INSPECTION BY THE GEOTECHNICAL ENGINE RAIN INSTALLATIONS. (17.27.020(B) U.D.C.)	ER OR HIS RESPONSIBLE REPRESENTATIVE SHALL BE PROVIDED DURING ALL	WORKS	CITY I
ND THE PROPOSED FINISH SLOPE TO ALLOW COMPACE SURFACE. THE EXCESS FILL IS TO BE REMOVED PR	BE CONSTRUCTED BY THE PLACEMENT OF SOIL AT SUFFICIENT DISTANCE CTION EQUIPMENT TO BE OPERATED AT THE OUTER LIMITS OF THE FINAL IOR TO COMPLETION OF ROUGH GRADING. (OTHER CONSTRUCTION TO THE SATISFACTION OF THE CITY PROJECT MANAGER THAT THE ANGLE OF LL HAVE EQUIVALENT EFFECT).	PUBLIC	
	T INSPECTIONS DURING THE PREPARATION OF THE NATURAL GROUND AND ISFIED THAT THE WORK IS BEING PERFORMED IN ACCORDANCE WITH THE) U.D.C.).	SUBMITTE	(NAME)
GRADING CONTRACTOR SHALL SUBMIT THE STATEMEN	NT REQUIRED BY SECTION 17.29.020 U.D.C. AT THE COMPLETION OF ROUGH		
CTION NOTES			
DWING STAGES OF THE WORK: <u>NITIAL.</u> WHEN THE SITE HAS BEEN CLEARED OF VEGET OTHERWISE PREPARED FOR FILL. NO FILL SHALL HAVE <u>OUGH.</u> WHEN APPROXIMATE FINAL ELEVATIONS HAVE IT THE TOP OF THE SLOPES; AND THE STATEMENTS R INAL. WHEN GRADING HAS BEEN COMPLETED; ALL DR	AGER AT LEAST ONE WORKING DAY IN ADVANCE OF REQUIRED INSPECTIONS AT TATION AND UNAPPROVED FILL AND IT HAS BEEN SCARIFIED, BENCHED OR BEEN PLACED PRIOR TO THIS INSPECTION. BEEN ESTABLISHED; DRAINAGE TERRACES, SWALES AND BERMS INSTALLED EQUIRED IN SECTION 17.29.020 U.D.C. HAVE BEEN RECEIVED. AINAGE DEVICES INSTALLED; SLOPE PLANTING ESTABLISHED, IRRIGATION RED STATEMENTS, AND REPORTS HAVE BEEN SUBMITTED. (17.29.010(C) U.D.C.)	z	
EERED GRADING REQUIREMENTS		DESCRIPTION	
	OPMENT SERVICES DIVISION FOR REGULAR GRADING, REPORTS AND MANAGER IN ACCORDANCE WITH SECTION 17.29.020 U.D.C.		_
<u>Y NOTES</u> RE PERMISSION FROM THE DEVELOPMENT SERVICES	DIVISION THROUGH THE CITY PROJECT MANAGER FOR CONSTRUCTION OR	DATE	
ING WITHIN STREET RIGHT-OF-WAY.		MARK	
RMWATER POLLUTION PREVENTION PLAN MUST BE F	REPARED AND A COPY AVAILABLE FOR REVIEW AT THE PROJECT SITE AT ALL WATER POLLUTION PREVENTION PLAN MUST BE IMPLEMENTED THROUGHOUT		
IENT MARKINGS/STRIPING		-	
VEMENT AND PARKING STALLS SHALL BE TWO COATS	ANS STANDARD PLANS (2015 EDITION). ALL PAVEMENT MARKINGS/STRIPING ON S OF YELLOW TRAFFIC PAINT, GLASS BEAD IN THE SECOND COAT. NO CONCRETE PAVEMENT UNLESS OTHERWISE INDICATED. CONTACT DTC NT USE. (BEN, 805 529-7733).	CONSERVATION H BIKEWAY S COUNTY NOTES	RNANDO
		ONSER BIKEW COUNT IOTES	ш
	AN AERIAL SURVEY PERFORMED IN JUNE 2014 BY ARROWHEAD MAPPING.	AND CC WASH GELES C	AN F
CT BENCHMARK RK: CITY OF LA BENCHMARK 03-06950	WORK TO BE DONE THE IMPROVEMENTS CONSIST OF THE FOLLOWING WORK TO BE DONE		S П
SPK NE CURB GLENOAKS BLVD; 3 FT NW OF BCR NW OF MACLAY ST I: 1130.43 NGVD 1929	ACCORDING TO THESE PLANS, SPECIAL PROVISIONS, PROJECT SPECIFICATIONS, AND THE SPECIFICATIONS AND STANDARD DRAWINGS OF THE CITY OF SAN FERNANDO. STANDARD SPECIFICATIONS	RECREATION PACOIMA LOS ANC GENE	CITY O
<u>R</u>	1. STANDARD SPECIFICATIONS FOR PUBLIC WORKS CONSTRUCTION		
AN FERNANDO EIL ST. ANDO, CA 91340	"GREEN BOOK" (2015 EDITION). 2. STORMWATER BEST MANAGEMENT PRACTICES HANDBOOK, CASQA. 3. CALTRANS STANDARD SPECS 2010 EDITION OR LATEST EDITION	MOUNTAINS	
ENT: PUBLIC WORKS IE: (818) 898-1222	STANDARD DRAWINGS		589-1400
NTATIVE: PATSY OROZCO	1. STANDARD PLANS FOR PUBLIC WORKS CONSTRUCTION "SPPWC" (2015 EDITION).	Designed By:	
IWORK	2. STANDARD PLANS, LOS ANGELES COUNTY DEPARTMENT OF PUBLIC WORKS (2000 EDITION).	Drawn By: Checked By:	

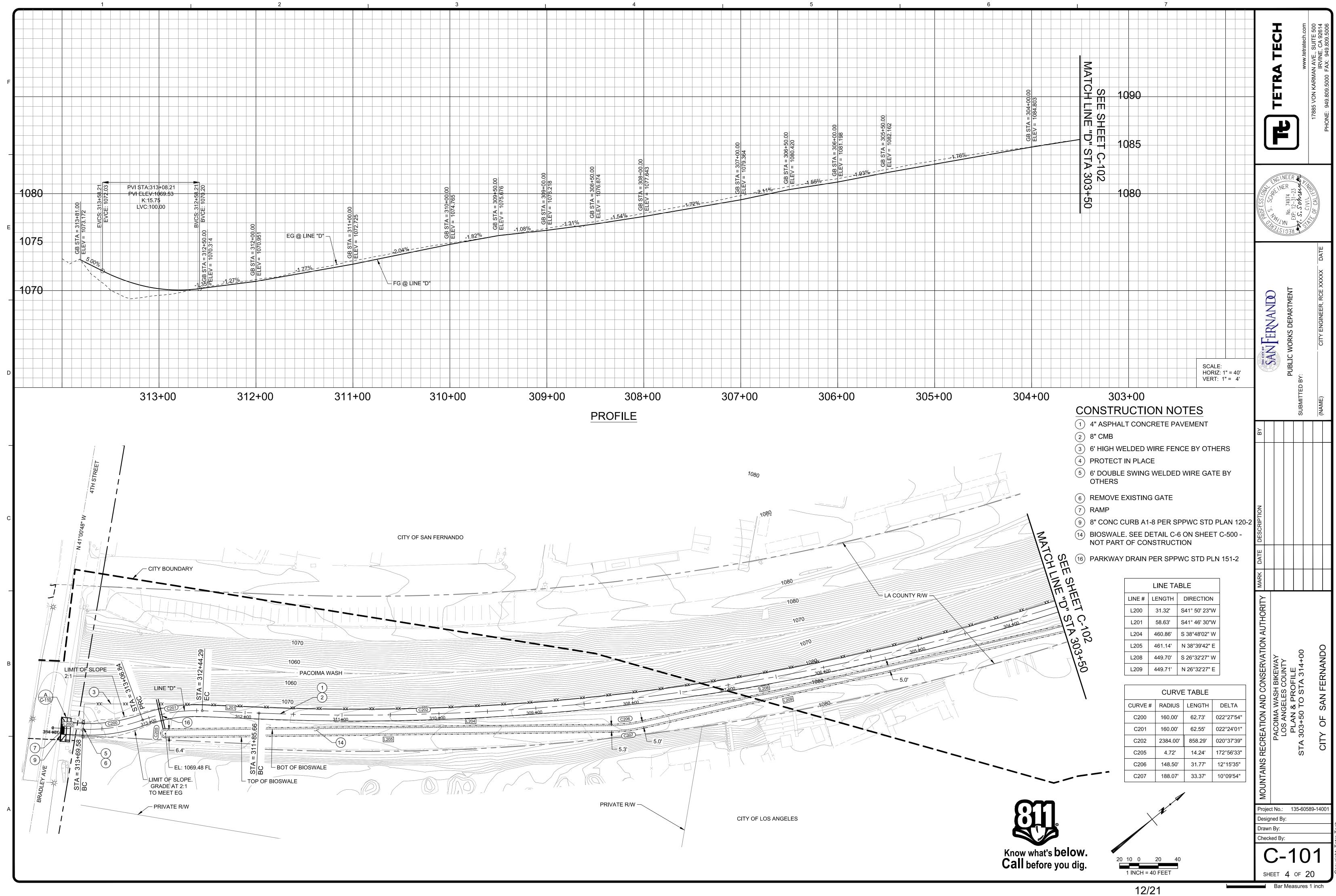
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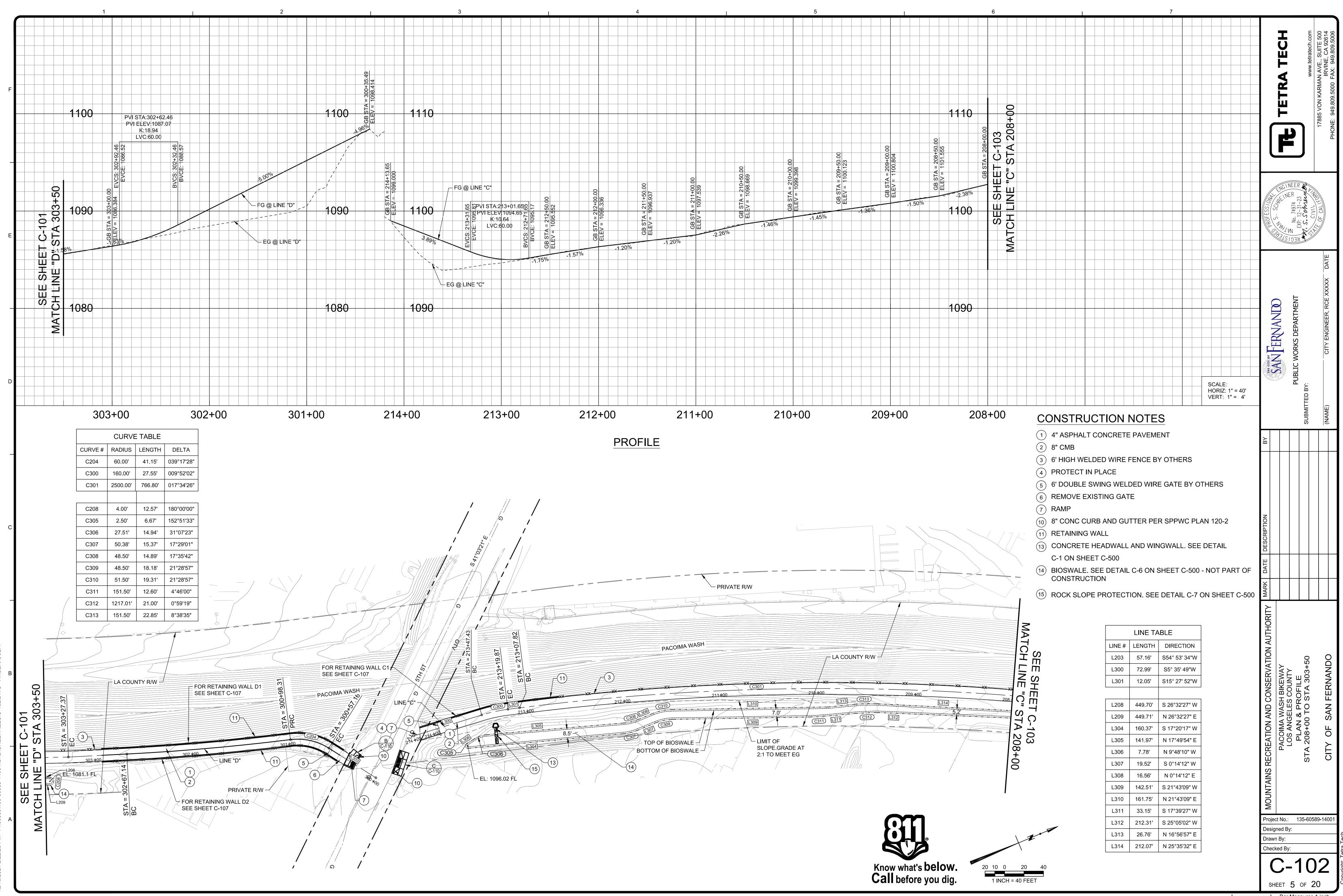
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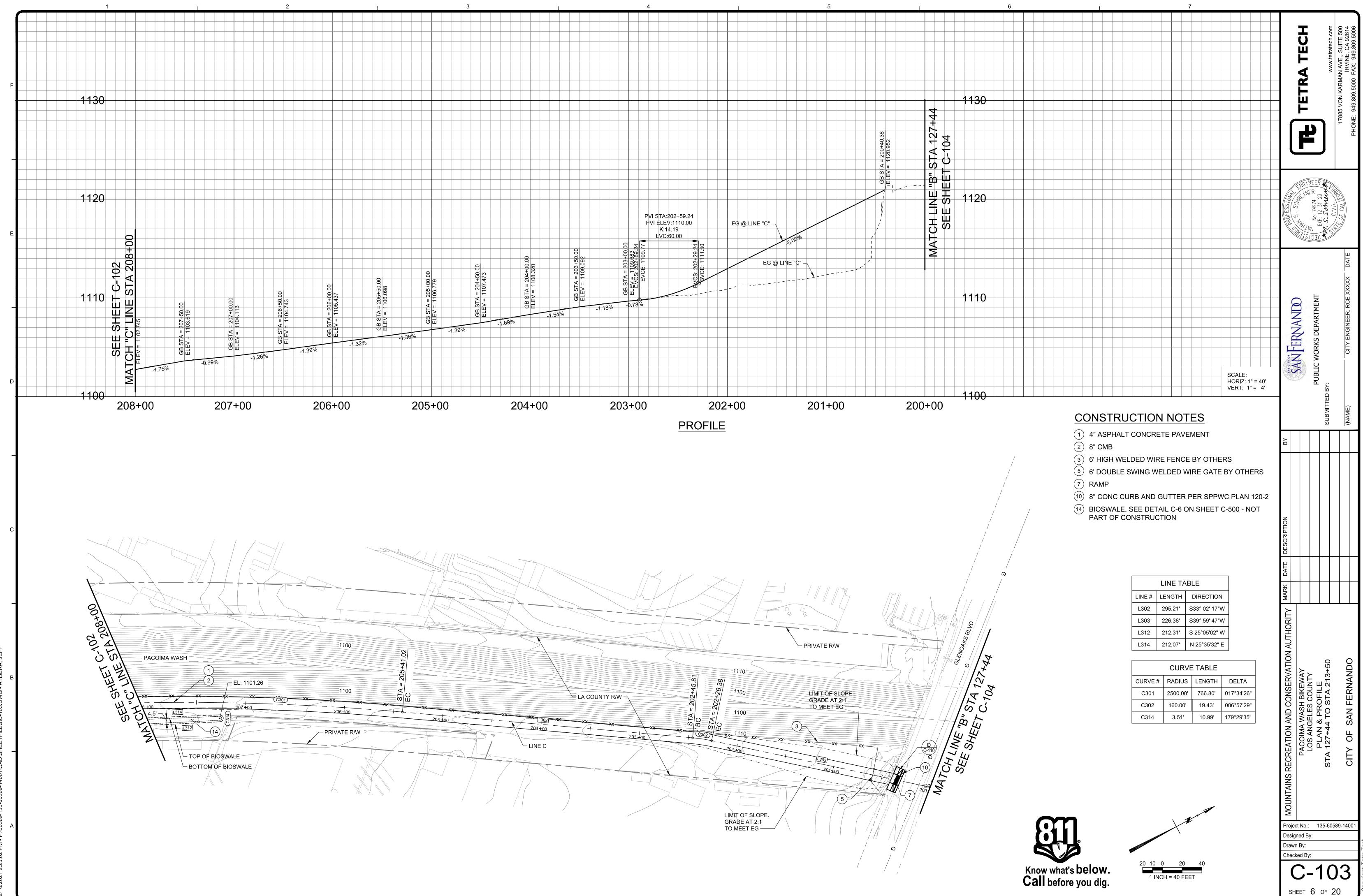
Bar Measures 1 inch

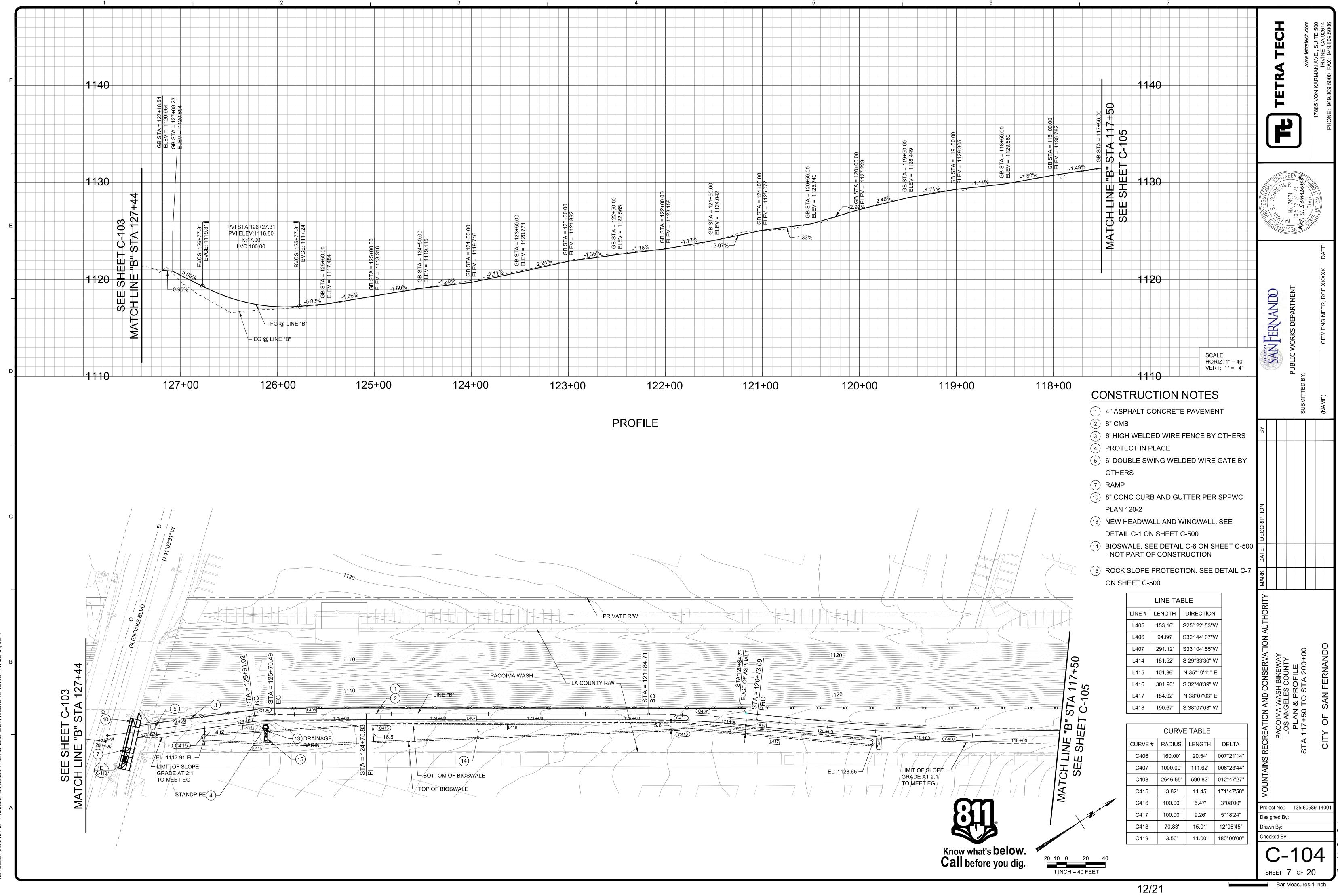
3. STANDARD PLANS, CALTRANS, LATEST EDITION.



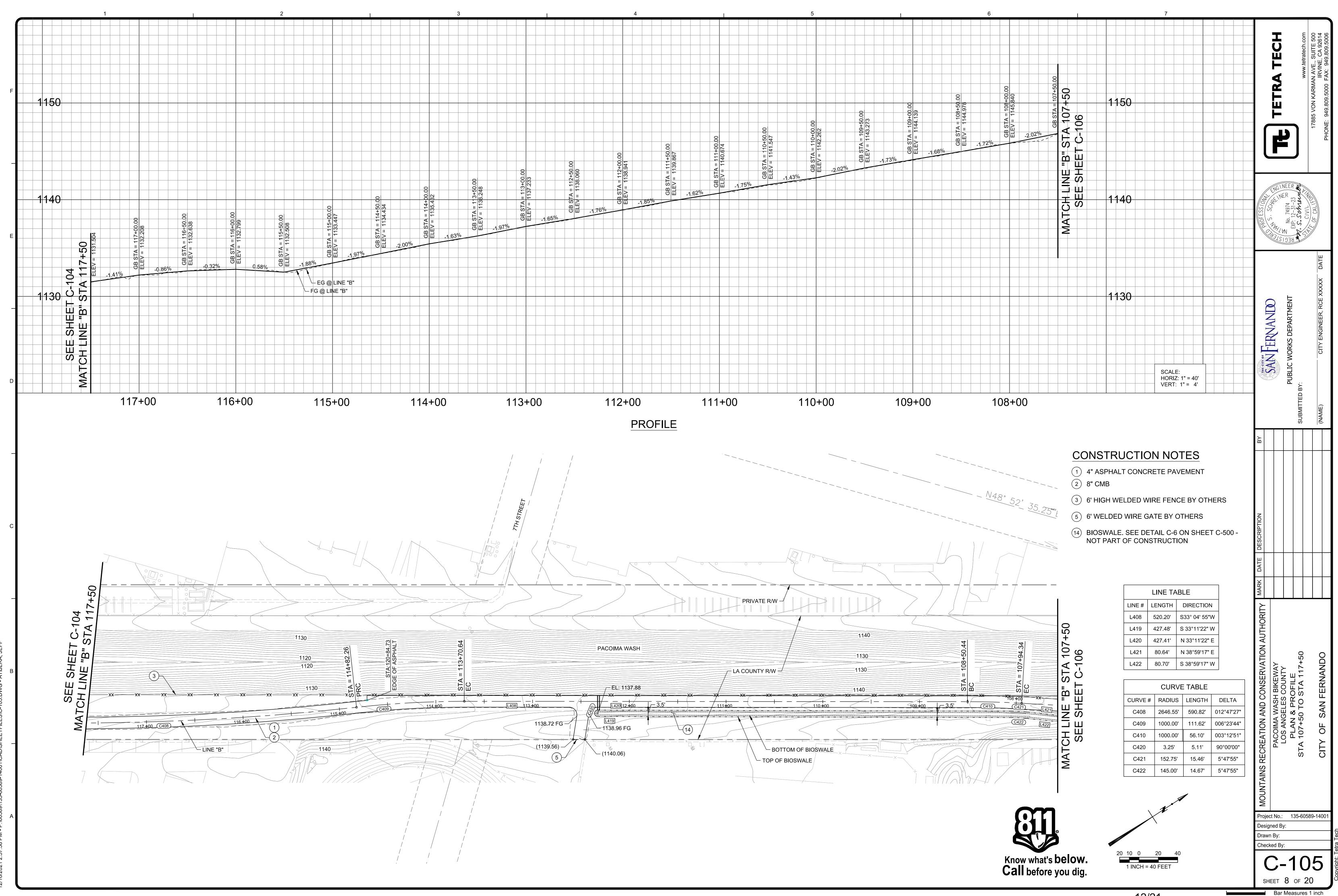


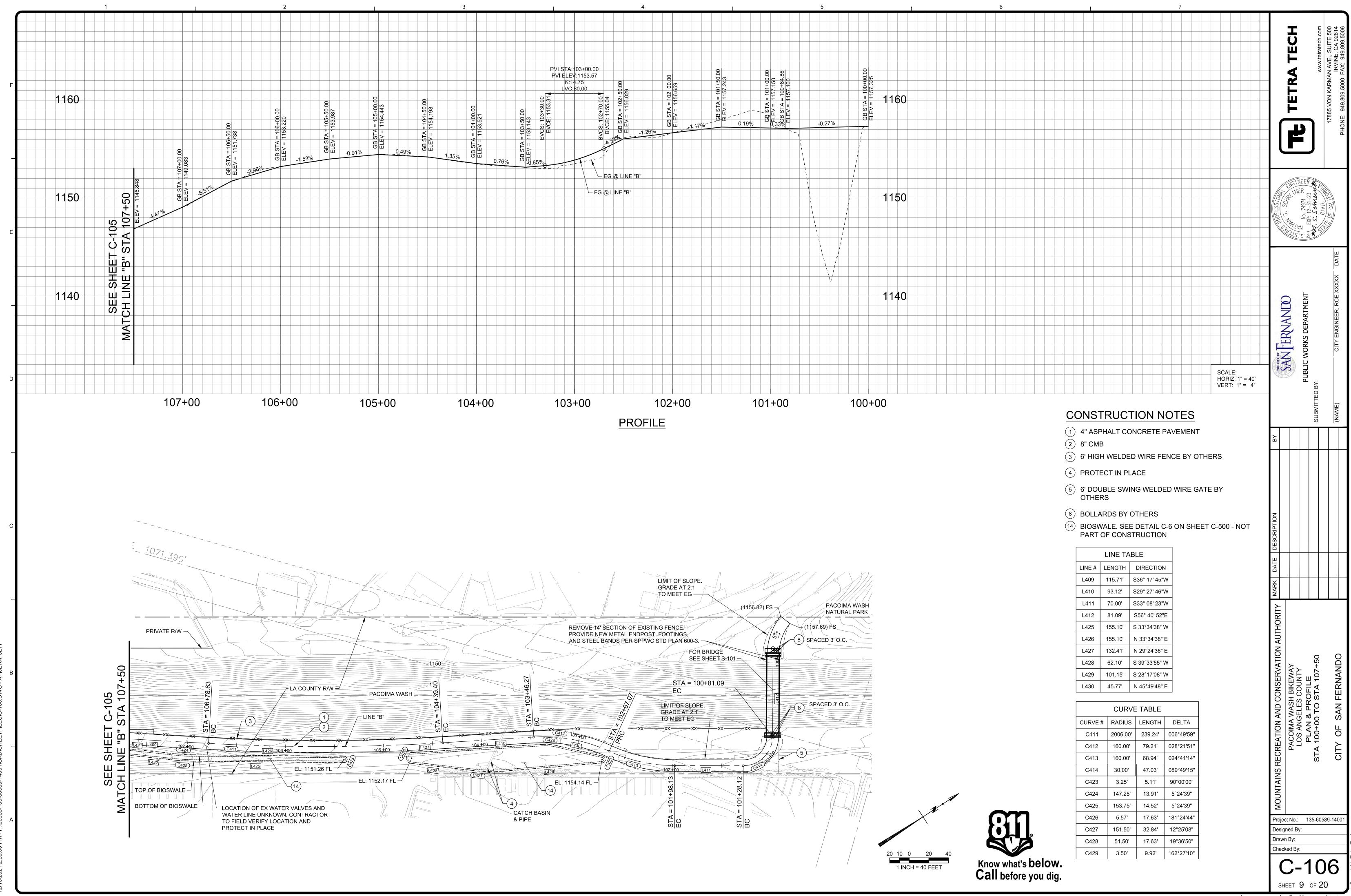


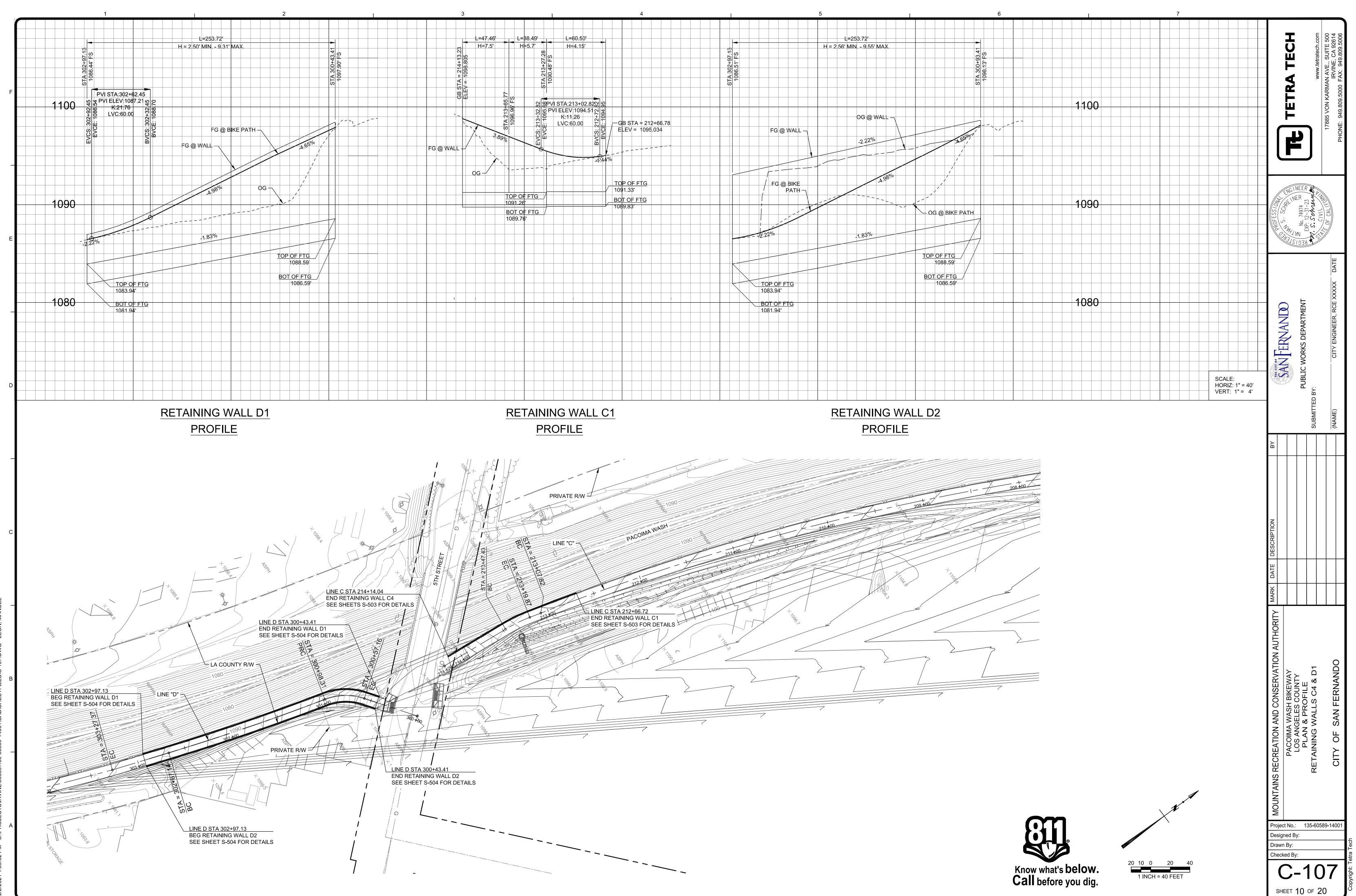


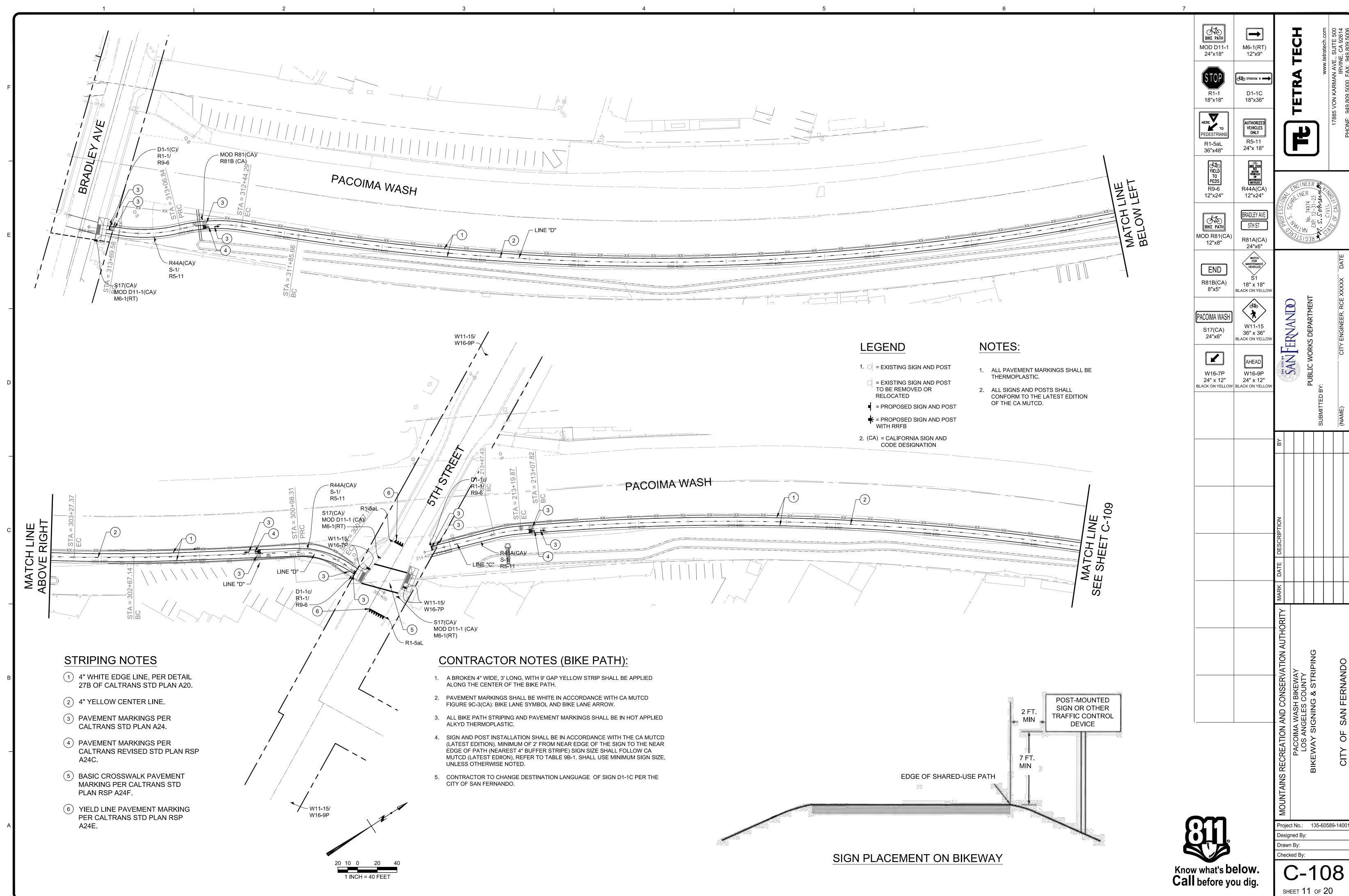


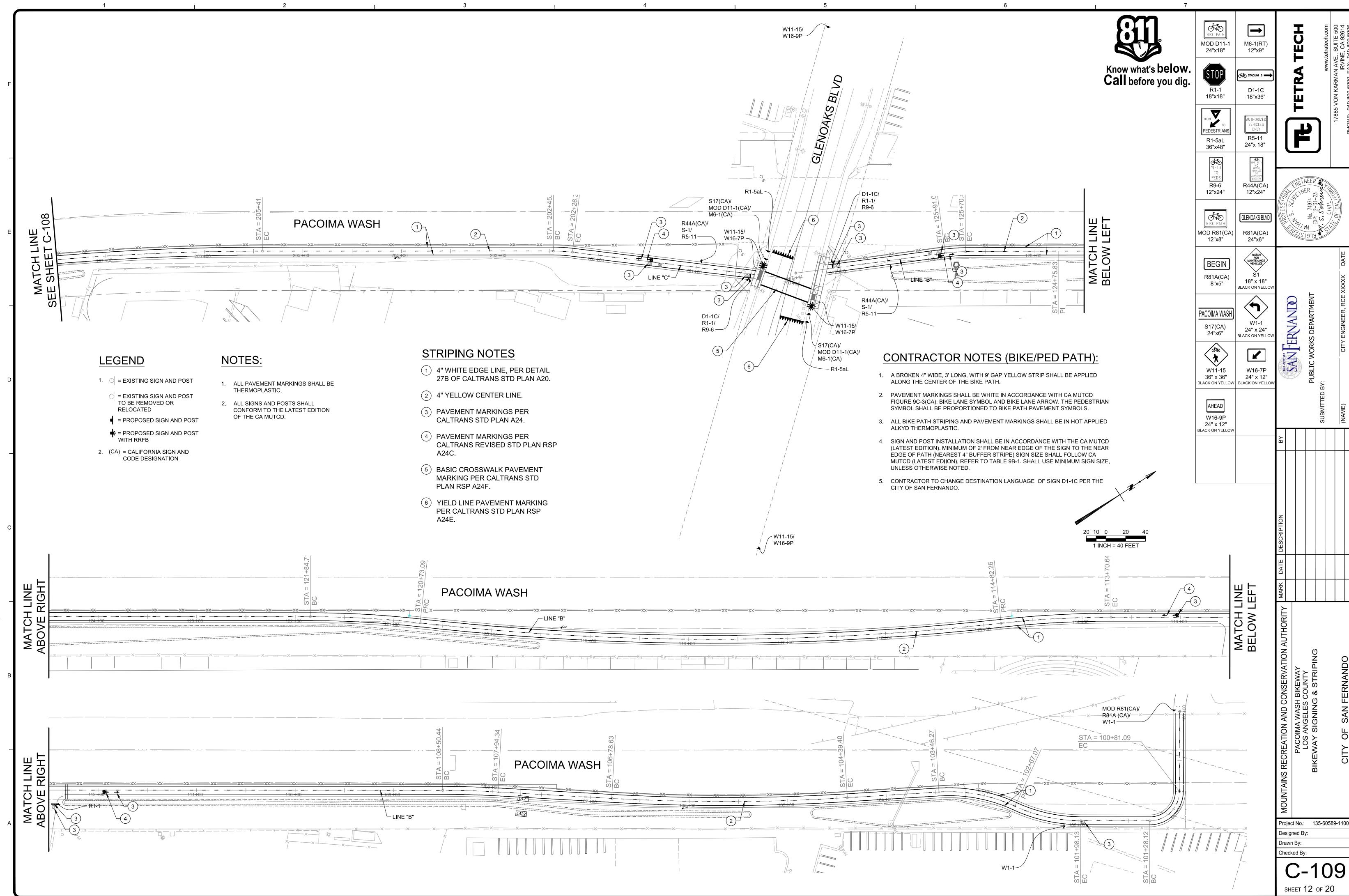
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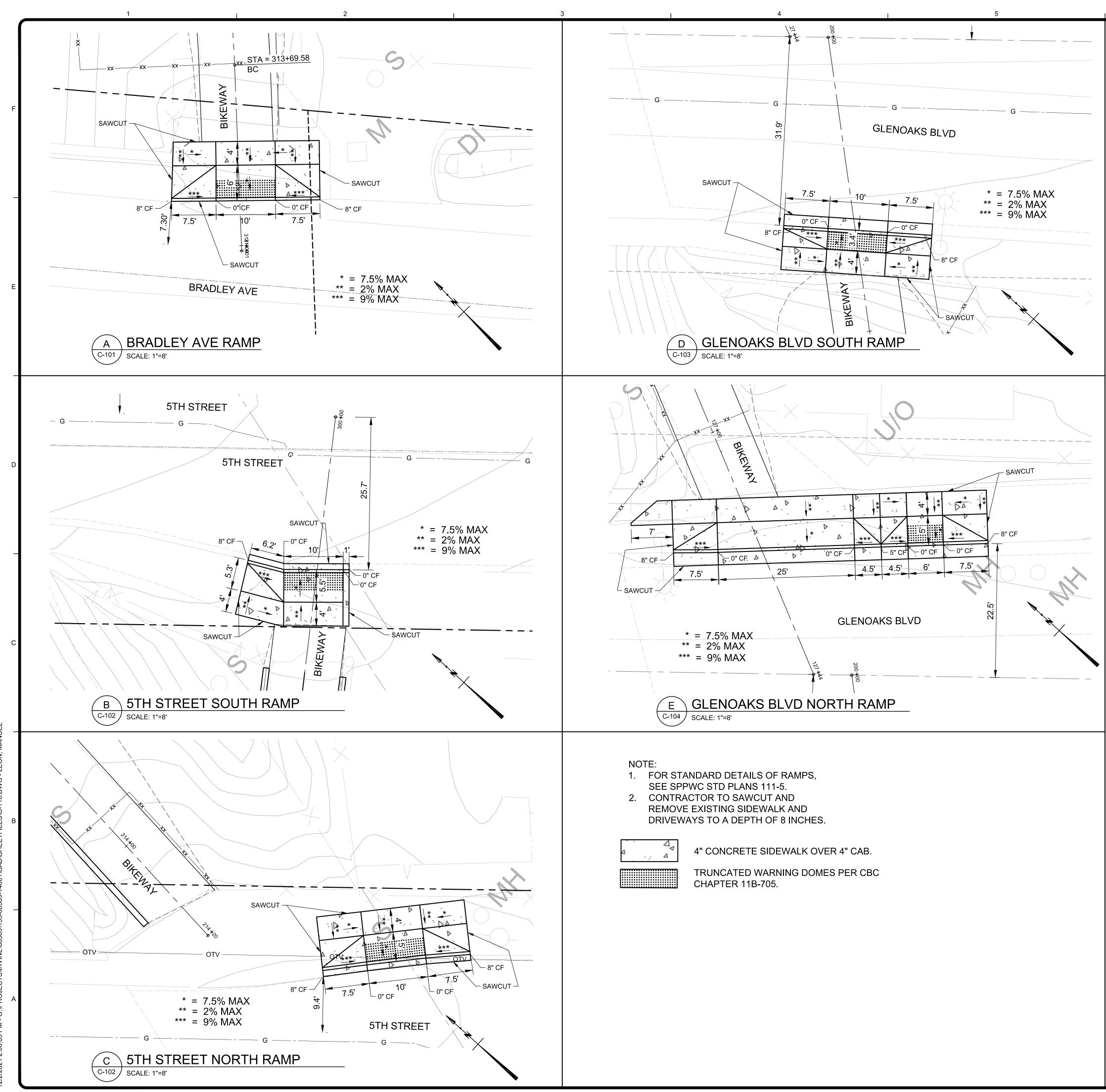










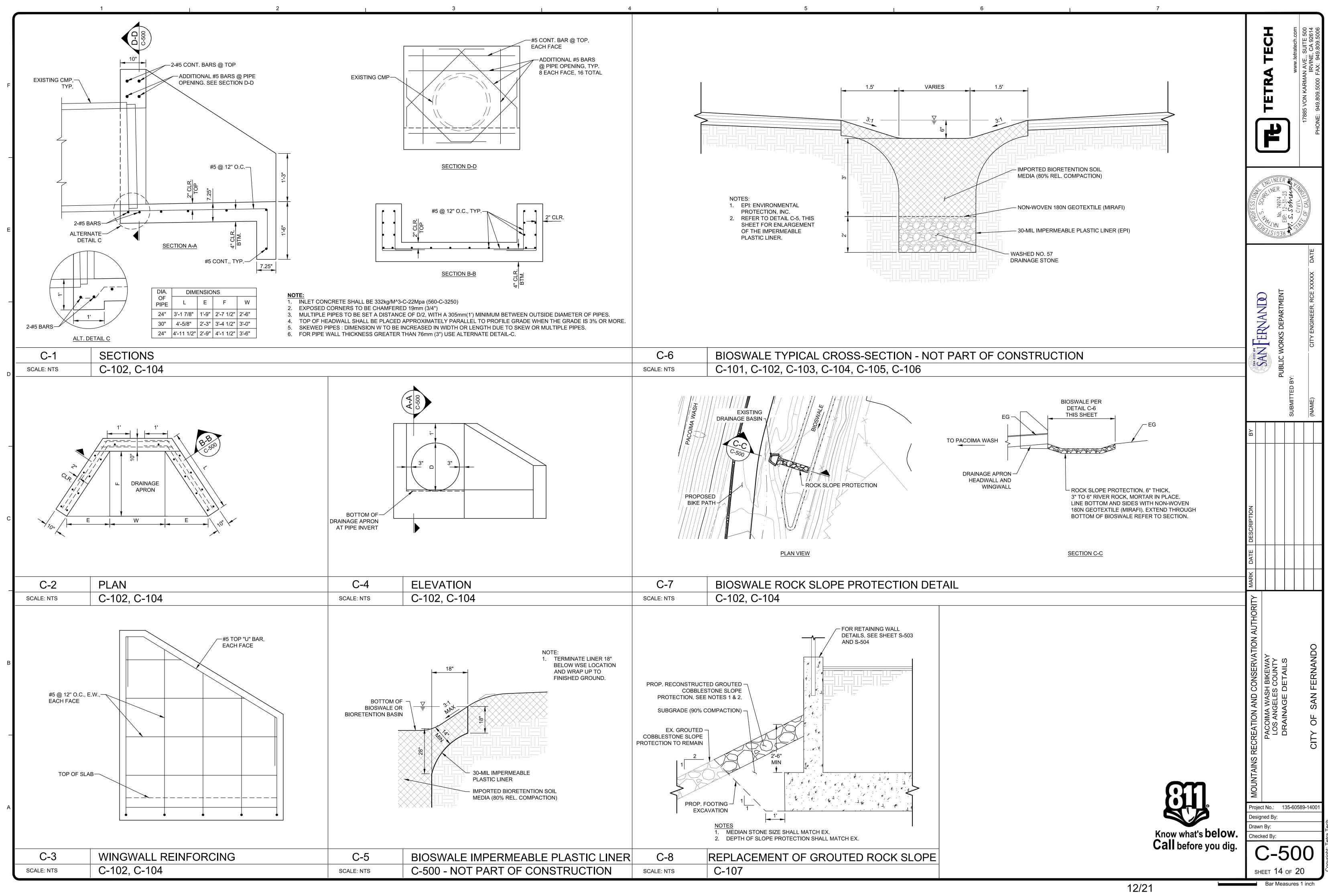


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	TETRA TECH	5]	www.tetratech.com	17885 VON KARMAN AVE., SUITE 500		PHONE: 949.809.5000 FAX: 949.809.5006
PROFESSIONAL	ENGINER INFO	REC No. 74974 B	AN. S. Schnender	CIVIL ON	OF CALIFOR		
CANT FEDNIANITY		PUBLIC WORKS DEPARTMENT	SUBMITTED BY:			(NAME) CITY ENGINEER. RCE XXXXX DATE	
ВΥ							
1ARK DATE DESCRIPTION							
MOUNTAINS RECREATION AND CONSERVATION AUTHORITY MARK DATE DESCRIPTION							
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<u>GENERAL STRUCTURAL NOTES</u> THESE NOTES SHALL APPLY UNLESS SHOWN/INDICATED OTHERWISE ELSEWHERE IN	CONCRETE NOTES
THE STRUCTURAL DRAWINGS. <u>GENERAL</u>	 BRIDGE CONCRETE SHALL HAVE A MINIMUM ULTIMA (fc) OF 4000 PSI AT 28 DAYS. RETAINING WALL CONCR STRENGTH (fc) OF 5500 PSI AT 28 DAYS. REQUIRED A¹
1. ALL MATERIALS AND CONSTRUCTION SHALL CONFORM TO THE 2014 COUNTY OF LOS ANGELES BUILDING CODE (L.A.C.B.C.), BASED UPON THE 2012 EDITION	STRENGTH (fcr) FOR MIX PROPORTIONING SHALL BE I WITH ACI 318-11, CHAPTER 5. AGGREGATES SHALL CC
OF THE INTERNATIONAL BUILDING CODE (I.B.C.).	2. CEMENT FOR CONCRETE SHALL BE TYPE II PORTLAN TO A.S.T.M. C150, WITH A.S.T.M. C10 TABLE 2 OPTIONA
BEFORE STARTING WORK. SHOULD CONDITIONS EXIST WHICH ARE CONTRARY TO THOSE SHOWN ON PLANS, THE ENGINEER SHALL BE	3. MAXIMUM WATER/CEMENT RATIO SHALL BE 0.45.
NOTIFIED IN WRITING BEFORE PROCEEDING WITH WORK. 3. IT SHALL BE THE RESPONSIBILITY OF THE CONTRACTOR TO ENSURE THAT	 CONCRETE COVER FOR REINFORCING BARS SHALL E CAST AGAINST AND PERMANENTLY EXPOSED TO EAR EXPOSED TO EARTH OR WEATHER = 2"
ALL WORK IS ADEQUATELY BRACED AND SHORED DURING CONSTRUCTION. ALL BRACING/SHORING SHALL BE DESIGNED BY A REGISTERED ENGINEER HIRED BY THE CONTRACTOR.	5. DRYPACK SHALL BE 1 PART CEMENT AND 3 PARTS SA
4. UNLESS DETAILED, SPECIFIED, OR INDICATED OTHERWISE, CONSTRUCTION SHALL BE AS INDICATED IN THE APPLICABLE TYPICAL DETAILS AND THESE	 NO PIPES OR DUCTS SHALL BE PLACED IN STRUCTUF SPECIFICALLY DETAILED.
GENERAL NOTES. TYPICAL DETAILS ARE MEANT TO APPLY EVEN THOUGH NOT REFERENCED AT SPECIFIC LOCATIONS ON DRAWINGS WHERE THEY OCCUR.	7. THE LOCATION OF ALL CONSTRUCTION JOINTS NOT S SHOWN SHALL BE APPROVED BY THE ENGINEER.
5. THE CONTRACT DRAWINGS AND SPECIFICATIONS REPRESENT THE FINISHED STRUCTURE. THEY DO NOT INDICATE THE METHOD OF CONSTRUCTION. THE	8. "ROUGHENED SURFACES", WHERE SPECIFIED ON TH MECHANICALLY ROUGHENED SUCH THAT A 1/4" AMP
CONTRACTOR SHALL PROVIDE ALL MEASURES NECESSARY TO PROTECT THE STRUCTURE, WORKERS AND PEDESTRIANS DURING CONSTRUCTION. SUCH MEASURES SHALL INCLUDE, BUT NOT BE LIMITED TO BRACING, SHORING	BETWEEN HIGH AND LOW SPOTS OF THE ROUGHENE SHALL BE CLEAN AND FREE OF LAITANCE
FOR LOADS DUE TO CONSTRUCTION EQUIPMENT, TEMPORARY STRUCTURES, AND PARTIALLY COMPLETED WORK, ETC. OBSERVATION VISITS TO THE SITE BY THE ENGINEER SHALL NOT BE CONSIDERED AS INSPECTION OF	9. BOTH FACES OF CONCRETE WALLS, EDGES OF CONC OTHER FORMED CONCRETE SURFACES WHERE THE S IS 2 INCHES, SHALL BE PLACED AGAINST FORMWORK
SUCH ITEMS.	ACI 347. CONCRETE FOR THESE ELEMENTS SHALL NO
6. THE CONTRACTOR ACKNOWLEDGES RESPONSIBILITY FOR JOBSITE SAFETY AND ACKNOWLEDGES THAT THE ENGINEER WILL NOT HAVE SUCH RESPONSIBILITY. IF A LAWSUIT IS FILED BY ONE OF THE CONTRACTOR'S OR	 CONCRETE SUMP SHALL NOT EXCEED 3" WHEN TES ASTM STANDARD NO. C143 FOR FOOTINGS, SLABS, B CAST-IN-PLACE WALLS AND COLUMNS.
SUBCONTRACTOR'S EMPLOYEES, OR ANY ONE ELSE, THE CONTRACTOR WILL INDEMNIFY, DEFEND AND HOLD THE OWNER AND TETRA TECH, INC., THEIR PARENT AND SUBSIDIARY COMPANIES HARMLESS OF ANY AND ALL SUCH	11. ALL CONCRETE EDGES, CORNERS AND INTERSECTI CHAMFERED NO LESS THAN ¾" WHETHER SHOWN OF
CLAIMS.	12. NON-SHRINK GROUT OR DRY PACK. A PREMIXED NO
 7. DIMENSIONS SHALL TAKE PRECEDENCE OVER SCALES SHOWN ON DRAWINGS. 8. ALL WORK SHALL CONFORM TO THE PLANS AND SPECIFICATIONS IN ALL 	THE FOLLOWING CHARACTERISTICS: NO SHRINKAGE EXPANSION AFTER SET (ASTM C-827), ONE DAY COMF LEAST 3000 PSI (ASTM C-109) AND INITIAL SET TIME O
RESPECTS AND SHALL BE SUBJECT TO APPROVAL BY THE ENGINEER. 9. CONTRACTOR SHALL VERIFY LOCATION OF ALL SITE UTILITIES PRIOR TO	(ASTM C-1911). MINIMUM f'c ÁT 7 DAYS = 5000 PSI. STEEL NOTES
STARTING WORK, BOTH ABOVE GROUND AND BELOW GROUND, WHICH MAY BE IMPACTED BY THE WORK SHOWN ON THESE DRAWINGS. ANY CONFLICTS SHALL	1. UNLESS OTHERWISE NOTED, ALL STRUCTURAL AND
BE BROUGHT TO THE ATTENTION OF THE ENGINEER. 10. ALL ITEMS SHOWN ON THESE PLANS ARE NEW UNLESS NOTED (E), EXIST.	STEEL FOR BRIDGE AND ACCESS STAIRS SHALL BE UN FABRICATED FROM A.S.T.M. A242 OR A.S.T.M. A588 STE STRUCTURAL SHAPES, AND A.S.T.M. A606 OR A.S.T.M.
OR EXISTING.	SECTIONS. MINIMUM YIELD (Fy) SHALL BE GREATER TH STEEL SHALL BE FABRICATED AND ERECTED IN ACCO SPECIFICATION FOR THE DESIGN, FABRICATION AND E
REQUIREMENTS AS PER GEOTECHNICAL REPORT BY RTF&A, PROJECT 2015-009-001, DATED OCTOBER 23, 2015. THIS REPORT SHALL BE CONSIDERED A PART OF THESE PLANS	STEEL FOR BUILDINGS. STRUCTURAL STEEL FABRICAT BE SPECIALLY INSPECTED OR FABRICATOR SHALL BE
AND SHALL BE KEPT AT THE JOB SITE AT ALL TIMES. A COPY OF THIS REPORT IS AVAILABLE FOR REVIEW IN THE ENGINEERS'S OFFICE.	AT THE COMPLETION OF FABRICATION, THE APPROVE A CERTIFICATE OF COMPLIANCE TO THE CITY BUILDIN PROJECT IS NOT UNDER THE JURISDICTION OF A BUIL
12. SEE CIVIL DRAWINGS FOR SIZE AND LOCATION OF ALL OPENINGS, PIPING, ETC.	AND TO THE ENGINEER STATING THAT THE WORK WAS WITH THE CONTRACT DOCUMENTS.
13. BY ACCEPTING THIS CONTRACT, CONTRACTOR HEREBY RELEASES AND AGREES TO INDEMNIFY, DEFEND, HOLD HARMLESS THE OWNER, ENGINEER, (HEREINAFTER TETRA TECH, INC.), THEIR PARENT AND SUBSIDIARY	2. ALL HANDRAIL SHALL BE STEEL PIPE CONFORMING TO HANDRAIL SHALL BE HOT-DIP GALVANIZED IN ACCORI
COMPANIES, AGENTS, EMPLOYEES, CONSULTANTS AND REPRESENTATIVES FOR ANY AND ALL DAMAGE TO PERSONS OR PROPERTY OR WRONGFUL DEATH REGARDLESS OF WHETHER OR NOT SUCH CLAIM, DAMAGE, LOSS OR EXPENSE	OR A153, AS APPLICABLE. REPAIR OF DAMAGED GALV BE IN ACCORDANCE WITH ASTM A780.
IS CAUSED IN WHOLE OR IN PART BY THE NEGLIGENCE, ACTIVE OR PASSIVE, OF OWNER, ENGINEER, THEIR PARENT AND SUBSIDIARY	3. ALL STEEL BAR GRATING USED FOR BRIDGE DECKING TREADS SHALL CONFORM TO ASTM A36. BAR GRATIN
COMPANIES AS WELL AS THEIR AGENTS AND EMPLOYEES, TO THE FULLEST EXTENT PERMITTED BY LAW. SUCH INDEMNIFICATION SHALL EXTEND TO ALL CLAIMS, DEMANDS, ACTIONS, OR LIABILITY FOR INJURIES,	GALVANIZED IN ACCORDANCE WITH ASTM A123. REP COATING SHALL BE IN ACCORDANCE WITH ASTM A78
DEATH OR DAMAGES OCCURRING AFTER COMPLETION OF THE PROJECT, AS WELL AS DURING THE WORK'S PROGRESS. CONTRACTOR FURTHER AGREES THAT IT SHALL ACCOMPLISH THE ABOVE AT ITS OWN COST, EXPENSE AND	4. UNLESS NOTED OTHERWISE, BOLTS FOR WEATHERIN SHALL CONFORM TO A.S.T.M. A325, TYPE 3. HEX NUTS STEEL SHALL CONFORM TO ASTM A563 GRADE C3 OF
RISK EXCLUSIVE OF AND REGARDLESS OF ANY APPLICABLE INSURANCE POLICY OR POSITION TAKEN BY ANY INSURANCE COMPANY REGARDING	5. UNLESS NOTED OTHERWISE, STEEL ANCHOR BOLTS
COVERAGE. 14.CONTRACTOR SHALL DEFEND, INDEMNIFY AND HOLD THE CLIENT AND	CONFORM TO ASTM F1554, GRADE 55, AND SHALL BE IN ACCORDANCE WITH ASTM A153. CARBON STEEL N ASTM A563, GRADE DH.
TETRA TECH, INC. THEIR PARENT AND SUBSIDIARY COMPANIES, ITS EMPLOYEES, OFFICERS, OR AGENTS, HARMLESS AGAINST ANY AND ALL CLAIMS BY ANY PARTIES ARISING FROM, OR RELATED TO, ANY AND ALL	6. HOLES FOR BOLTS IN STEEL SHALL BE OF SAME DIAM MAXIMUM.
DAMAGES, INCLUDING LEGAL COSTS AND ATTORNEY'S FEES, RESULTING FROM INTERFERENCE WITH, INTERRUPTION OF, DAMAGE TO, OR ANY AND	7. ALL WELDING SHALL BE SHIELDED ARC TYPE AND SH
ALL INJURIES WHICH RESULT FROM DAMAGE CAUSED TO SUBSURFACE I NSTALLATION, WHICH IS UNFORESEEN AND DESPITE ENGINEER'S EFFORT DURING THE DESIGN PROCESS WAS NOT LOCATED, EXCEPTING ONLY THE	A CERTIFIED WELDER. WELDING SHALL BE PERFORMI REGISTERED AND APPROVED IN ACCORDANCE WITH SHALL BE INSPECTED IN ACCORDANCE WITH AWS D1.
GROSS NEGLIGENCE OR WILLFUL MISCONDUCT OF ENGINEER IN PROVIDING ITS SERVICES.	IS REQUIRED OF ALL FIELD WELDING IN ACCORDANCE 8. NO STRUCTURAL STEEL MEMBER SHALL BE CUT FOR
	UNLESS SPECIFICALLY DETAILED AND APPROVED BY
REINFORCING NOTES	9. WHERE SPECIFIED, USE OF HIGH-STRENGTH BOLTS (PROVISIONS OF THE "SPECIFICATION FOR STRUCTUR HIGH STRENGTH BOLTS" APPROVED BY THE RESEAR(
 REINFORCEMENT FOR CONCRETE SHALL BE DEFORMED BARS CONFORMING TO A.S.T.M. SPECIFICATION A615. GRADE 60 STEEL SHALL BE USED EXCEPT THAT #3 BARS AND SMALLER MAY BE GRADE 40 STEEL. 	STRUCTURAL CONNECTIONS OF THE ENGINEERING F SPECIAL INSPECTION OF HIGH-STRENGTH BOLT CONI IS REQUIRED.
2. WIRE MESH SHALL CONFORM TO A.S.T.M. A185. LAP 12" WHERE SPLICED.	
3. ALL REINFORCEMENT, ANCHOR BOLTS, AND OTHER ANCHORAGES PLACED IN CONCRETE SHALL BE ACCURATELY PLACED AND POSITIVELY SECURED AND	FOUNDATION NOTES:
SUPPORTED BY CONCRETE BLOCKS, METAL CHAIRS, SPACERS, OR METAL HANGERS, AND SHALL BE IN POSITION BEFORE CONCRETE PLACING. DETAILING AND PLACING OF BARS SHALL CONFORM TO THE A.C.I. MANUAL	GEOTECHNICAL REPORT BY RTF&A, PROJECT 2015- 2015. THE SOILS REPORT AND ITS REQUIREMENTS
OF STANDARD PRACTICES.	PART OF THESE PLANS. 2. FOOTINGS ARE DESIGNED FOR A MAXIMUM ALLOWA
 BARS SPECIFIED AS "CONTINUOUS" SHALL EXTEND THE FULL LENGTH OF THE MEMBER CONTAINING THEM AND MAY BE SPLICED (UNLESS NOTED OR SHOWN WITHOUT SPLICES ON THE PLANS). IN CONCRETE, PROVIDE LAPS 	PRESSURE OF 3000 PSF FOR TOTAL OF ALL DEAD P REFER TO THE PROJECT GEOTECHNICAL REPORT F SOIL BEARING VALUES.
PER DETAIL 2 ON DRAWING S-4. STAGGER ALL SPLICES.	3. THE SOILS ENGINEER SHALL REVIEW ALL SITE WOR EXCAVATIONS BEFORE ANY CONCRETE IS CAST.
 DOWELS SHALL BE PROVIDED AT ALL POUR JOINTS AND SHALL BE THE SAME SIZE AND SPACING AS REINFORCING DIRECTLY BEYOND POUR JOINTS. 	4. THE SOILS ENGINEER SHALL REVIEW ALL BACKFILL PLACEMENT AND OBSERVE BACKFILL OPERATIONS
6. WELDING OF REINFORCING STEEL IN REINFORCED CONCRETE CONSTRUCTION IS NOT PERMITTED.	5. FOOTINGS SHALL BE NOT LESS THAN 24" BELOW FI
7. THE SPECIFIED DIMENSIONS OF THE VERTICAL LEGS OF "L" DOWELS, WHOSE HORIZONTAL LEGS ARE CAST INTO A FOOTING OR SLAB CAST ON	6. FOOTINGS MAY BE PLACED IN NEAT EXCAVATION W AN EXTRA 1" WIDTH OF FOOTING IS PROVIDED ON B
TOP OF EARTH, ARE BASED UPON THE SLAB THICKNESS AS SHOWN ON THE DRAWINGS. IF A SLAB IS POURED THICKER THAN SHOWN ON THE DRAWINGS,	APPROVAL IS GIVEN BY THE ENGINEER. 7. ALL FOOTING EXCAVATIONS SHALL BE HAND CLEAN
SUCH AS FOR THE SUBGRADE OCCURRING AT A LOWER ELEVATION THAN SHOWN, THE VERTICAL LEGS MUST BE FABRICATED TO A LONGER LENGTH OR THE HORIZONTAL TAILS MUST BE SUPPORTED ABOVE SUBGRADE HIGH	
ENOUGH TO PROVIDE THE SAME AMOUNT OF LAP LENGTH BETWEEN THE DOWEL AND THE WALL VERTICAL REINFORCING.	

ATE COMPRESSIVE STRENGTH RETE SHALL HAVE A MINIMUM ULTIMATE COMPRESSIVE VERAGE COMPRESSIVE IN ACCORDANCE ONFORM TO A.S.T.M. C33. DESIGN CRITERIA: DESIGN CODES AND REFERENCES: ND CEMENT CONFORMING COUNTY OF LOS ANGELES BUILDING CODE, 2014 EDITION IAL REQUIREMENTS. ASCE 7-10 MINIMUM DESIGN LOADS FOR CUILDINGS AND OTHER STRUCTURES AISC MANUAL OF STEEL CONSTRUCTION, 14TH EDITION ACI 318-11 BUILDING CODE REQUIREMENTS FOR STRUCTURAL CONCRETE AASHTO LRFD BRIDGE DESIGN SPECIFICATIONS, 7TH EDTION AASHTO LRFD BRIDGE DESIGN SPECIFICATIONS FOR CONNECTION DETAILS \RTH = 3" 2016 CALIFORNIA BUILDING CODE LIVE LOADING: SAND (BY VOLUME). 90 PSF PEDESTRIAN LOAD AND H10 MAINTENANCE VEHICLE LOADING H10 MAINTENANCE LOADING IRAL CONCRETE UNLESS WIND LOADING: WIND SPEED, V = 100 MPH SPECIFICALLY NOTED OR SEISMIC ANALYSIS: RISK CATEGORY = II HE DRAWINGS, SHALL BE IMPORTANCE FACTOR, I = 1.00 PLITUDE (±) IS ACHIEVED NED SURFACE. THE SURFACE SITE CLASS = D SEISMIC DESIGN CATEGORY = D SEISMIC GROUND MOTION VALUES PER GEOTECH: Ss = 2.888g Sds = 1.925g CRETE FOUNDATIONS, AND S1 = 1.065g Sd1 = 1.065g SPECIFIED CONCRETE COVER WHICH COMPLIES WITH PGA = 0.991 IOT BE CAST AGAINST EARTH. SOIL DESIGN PROPERTIES: ALLOWABLE BEARING PRESSURE = 3000 PSF (DEAD + LIVE LOAD) STED IN ACCORDANCE WITH MAY BE INCREASED BY 1/3 FOR SHORT DURATION LOADING (SEISMIC AND WIND LOAD) BEAMS, AND GIRDERS. 3" FOR FRICTION COEFFICIENT = 0.4 LATERAL EARTH PRESSURE: ACTIVE (LEVEL BACKFILL) = 39 PSF/FT (DRAINED) TIONS SHALL BE TOOLED OR ACTIVE (LEVEL BACKFILL) = 81 PSF/FT (UNDRAINED) OR NOT ON THE DRAWINGS. SEISMIC SOIL LOAD = 39 PSF/FT (INVERTED TRIANGLE @ 0.6H) PEDESTRIAN LIVE LOAD = 29 PSF/FT (UNIFORM) ON-METALLIC FORMULA HAVING PASSIVE (LEVEL BACKFILL) = 325 PSF/FT (3250 PCF MAX. @ 10'-0") E AFTER PLACEMENT OR PRESSIVE STRENGTH OF AT MATERIAL PROPERTIES: OF NOT LESS THAN 45 MINUTES REINFORCED CONCRETE: f'c = 4000 PSI MIN AT 28 DAYS REINFORCING STEEL: ASTM A-615, GRADE 60, Fy = 60 KSI STRUCTURAL STEEL: Fy = 36 KSI Fy = 46 KSI (HSS TUBES) Fy = 50 KSI (W SHAPES) MISCELLANEOUS INPAINTED WEATHERING STEEL ANCHOR BOLTS: ASTM F1554, GRADE 36, Fy = 36 KSI EEL FOR PLATES AND . A847 FOR TUBULAR BRIDGE DESIGN VALUES: ASSUMED BRIDGE DESIGN WEIGHT = 30,240 LBS (TOTAL SUPERSTRUCTURE WEIGHT w/ DECKING IN PLACE) HAN 50 KSI. STRUCTURAL ORDANCE WITH THE AISC ERECTION OF STRUCTURAL SPECIAL INSPECTION REQUIRED: TION AND ERECTION SHALL E AN A.I.S.C. CERTIFIED SHOP. SPECIAL INSPECTIONS REQUIRED FOR THIS PROJEC SHALL BE PERFORMED ED FABRICATOR SHALL SUBMIT IN ACCORDANCE WITH C.B.C. CHAPTER 17. NG OFFICIAL (OR OWNER IF THE DING DEPARTMENT) 1. FOUNDATIONS: AS PERFORMED IN ACCORDANCE A. VISUAL EXAMINATION & APPROVAL OF ALL FOUNDATION EXCAVATIONS 2. CONCRETE: A. CAST-IN-PLACE CONCRETE TO A.S.T.M. A53, GRADE B. 3. REINFORCING STEEL: RDANCE WITH ASTM A123 A. PLACING OF REINFORCING FOR ALL CONCRETE REQUIRING SPECIAL INSPECTION VANIZED COATING SHALL STRUCTURAL OBSERVATION: STRUCTURAL OBSERVATION AS REQUIRED BY C.B.C. CHAPTER 17, AND AS DEFINED BY C.B.C SECTION 1702. NG, STAIR LANDING AND STAIR STRUCTURAL OBSERVATIONS SHALL BE PROVIDED DURING THE STAGES OF CONSTRUCTION LISTED BELOW. NG SHALL BE HOT-DIP PAIR OF DAMAGED GALVANIZED 1. CONCRETE REINFORCING STEEL AND EMBEDED STRUCTURAL ANCHORAGES PRIOR TO PLACEMENT OF CONCRETE FOR THE FOLLOWING: ING STEEL CONNECTIONS A. FOUNDATIONS S FOR WEATHERING **B. RETAINING WALLS** R DH3. C. BRIDGE ABUTMENT FOUNDATIONS S CAST IN NEW CONCRETE SHALL HOT-DIPPED GALVANIZED DEFERRED SUBMITTALS/CERTIFICATIONS: NUTS SHALL CONFORM TO 1. OFF-SITE FABRICATION: FABRICATORS SHALL BE CITY, COUNTY AND/OR C.B.C APPROVED FABRICATORS. FABRICATORS FOR ALL OFFSITE FABRICATION OF THE ITEMS LISTING BELOW: METER AS BOLT +1/16" A. STRUCTURAL STEEL (MILL REPORTS AND IDENTIFICATION OF STEEL, AFFIDAVIT OF COMPLIANCE) 2. DEFERRED SUBMITTALS: HALL BE PERFORMED BY SUBMITTAL DOCUMENTS FOR THE DEFERRED SUBMITTAL ITEMS LISTED BELOW SHALL BE DESIGNED BY IED IN A FABRICATION SHOP A LICENSED PE OR SE AND SUBMITTED BY THE CONTRACTOR TO THE BUILDING DEPARTMENT/APPROVAL I NOTE 1 ABOVE, OR WELDING AGENCY AND STRUCTURAL ENGINEER FOR REVIEW AND APPROVAL. THE DEFERRED SUBMITTAL ITEMS 1.1. CONTINUOUS INSPECTION SHALL NOT BE INSTALLED UNTIL THEIR DESIGN AND SUBMITTAL DOCUMENTS HAVE BEEN APPROVED BY E WITH AWS D1.1. THE BUILDING OFFICIAL. A. CONCRETE MIX DESIGN R PIPES, DUCTS, ETC. **B. REINFORCING STEEL** STRUCTURAL ENGINEER. C. DOWELS D. GROUT MIX SHALL CONFORM TO THE E. ADDITIVE MIXTURES RAL JOINTS USING F. SHORING METHODS RCH COUNCIL ON G. JOINT SEALS FOUNDATION (RCSC). F. PRE-ENGINEERING ALUMINUM PEDESTRIAN BRIDGE NECTIONS **MISCELLANEOUS NOTES:** 1. PROVISIONS SHALL BE MADE TO PREVENT DEBRIS FROM FALLING INTO THE CHANNEL DURING CONSTRUCTION. 2. COMPACTION EQUIPMENT USED TO PLACE BACKFILL BEHIND CHANNEL WALL MUST NOT EXCEED 35,000 POUNDS INCLUDING RE SHOWN IN THE DYNAMIC FORCED FROM VIBRATOR COMPACTOR. 5-009-001, DATED OCTOBER 23, SHALL BE CONSIDERED A 3. NO EQUIPMENT IN EXCESS OF H-10 HIGHWAY LOADING (AASHTO), AND NO STOCKPILING OF MATERIAL WILL BE PERMITTED ALONG

THE CHANNEL WITHIN A DISTANCE OF WALL HEIGHT.

EQUIPMENT IS USED, WOODEN MATTING SHALL BE PROVIDED OVER THE INVERT IN THE OPERATING AREA.

VABLE SOIL BEARING PLUS DESIGN LIVE LOADS. FOR OTHER ALLOWABLE

RK AND FOOTING

. MATERIALS PRIOR TO

INISH GRADE.

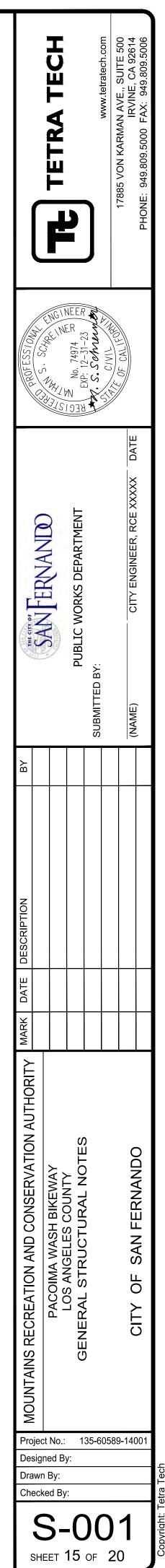
WHERE POSSIBLE, PROVIDED EACH SIDE AND WRITTEN

ANED PRIOR TO PLACING CONCRETE

STRUCTURAL ABBREVIATIONS

AB	ANCHOR BOLT
AFF	ABOVE FINISH FLOOR
ARCH	ARCHITECTURAL
L	ANGLE
_	BUILDING
BLDG	
BLKG	BLOCKING
BM	BEAM
BOT(B)	BOTTOM
BOF	BOTTOM OF FOOTING
BOW	BOTTOM OF WALL
CTR	CENTER
CJ	CONTROL JOINT
CMU	CONCRETE MASONRY UNIT
CTSK	COUNTERSINK
CLR	CLEAR
CONT	CONTINUOUS
COL	COLUMN
CONC	CONCRETE
CONN	CONNECTION
CONSTR	CONSTRUCTION
DIA.	DIAMETER
DO	DITTO
DWL	DOWEL
EXIST(E)	EXISTING
EXP BT	EXPANSION BOLT
EL	ELEVATION (DATUM)
ELEV	ELEVATION (VIEW)
EN	EDGE NAILING
ES	EACH SIDE
EA	EACH
EW	EACH WAY
EXT	EXTERIOR
FIN	FINISH
FLR	FLOOR
FOUND	FOUNDATION
FOS	FACE OF STUD
FS	FINISHED SURFACE
FTG	FOOTING
GALV	GALVANIZED
GLB	GLUE-LAM BEAM
HDR	HEADER

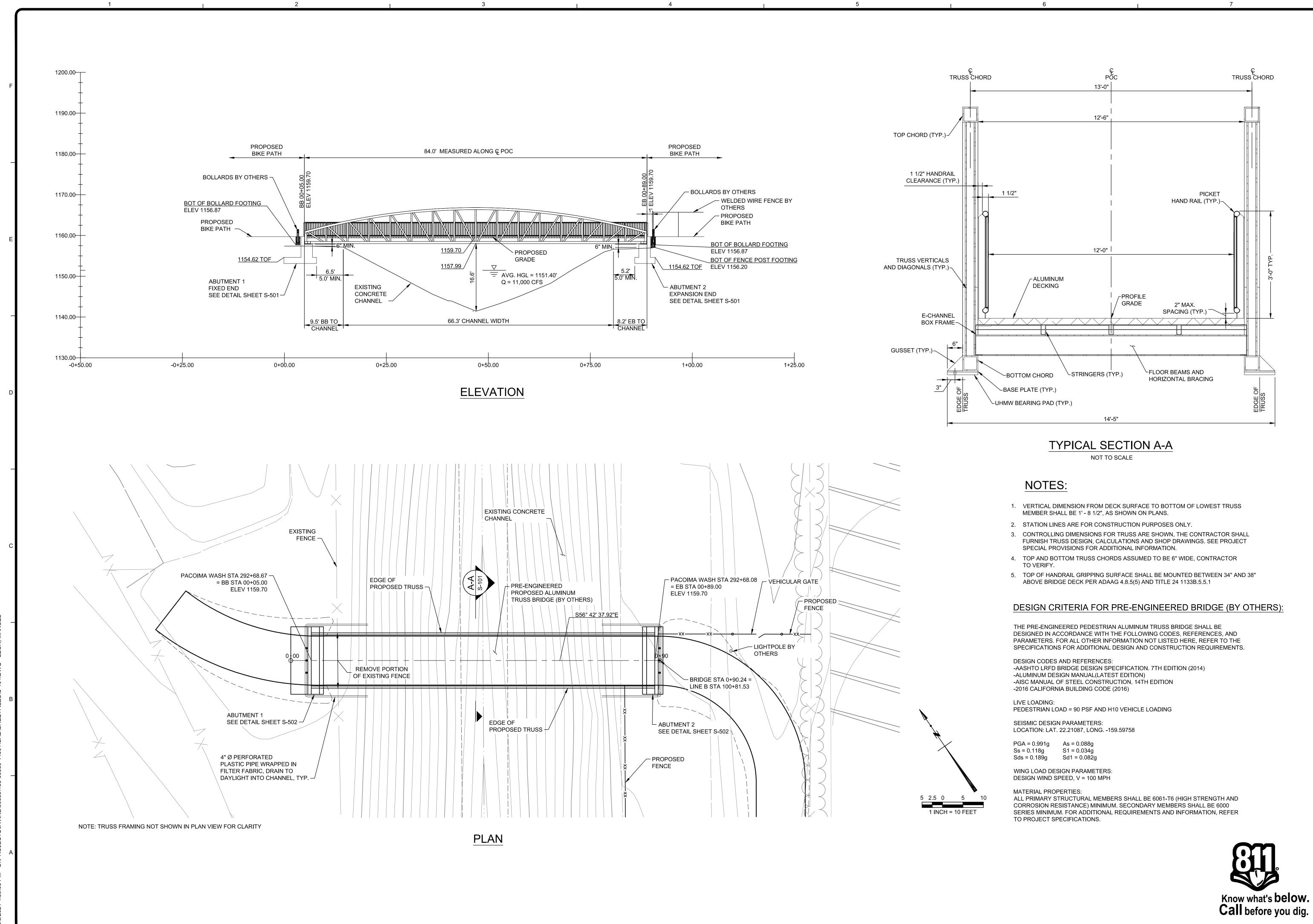
HORIZ(H)	HORIZONTAL
HSB INT JST JT MAX MB MIN MAS MFR MO MECH (N) NS NTS OC OPNG OSB PL PLYWD PT REINF REQ'D SHTG STD STIFF STL SYM T&B TOC TOP TOS TOP TOS TOV TOF TYP VERT(V) V.I.F. UNO	HIGH STRENGTH BOLT INTERIOR JOIST JOINT MAXIMUM MACHINE BOLTS MINIMUM MACHINE BOLTS MINIMUM MASONRY MANUFACTURER MASONRY OPENING MECHANICAL NEW NEAR SIDE NOT TO SCALE ON CENTER OPENING ORIENTED STRAND BOARD PLATE PLYWOOD PRESSURE TREATED REINFORCEMENT REQUIRED SHEATHING STANDARD STIFFENER STEEL SYMMETRICAL TOP OF CONCRETE TOP OF PLYWOOD TOP OF STEEL TOP OF STEEL TOP OF WALL TOP OF FOOTING TYPICAL VERIFY IN FIELD UNLESS NOTED OTHERWISE
WWF w/	WELDED WIRE FABRIC WITH



4. NO EQUIPMENT IN EXCESS OF H-20 HIGHWAY LOADING WILL BE PERMITTED TO OPERATE ON THE INVERT OF THE CHANNEL. ONLY

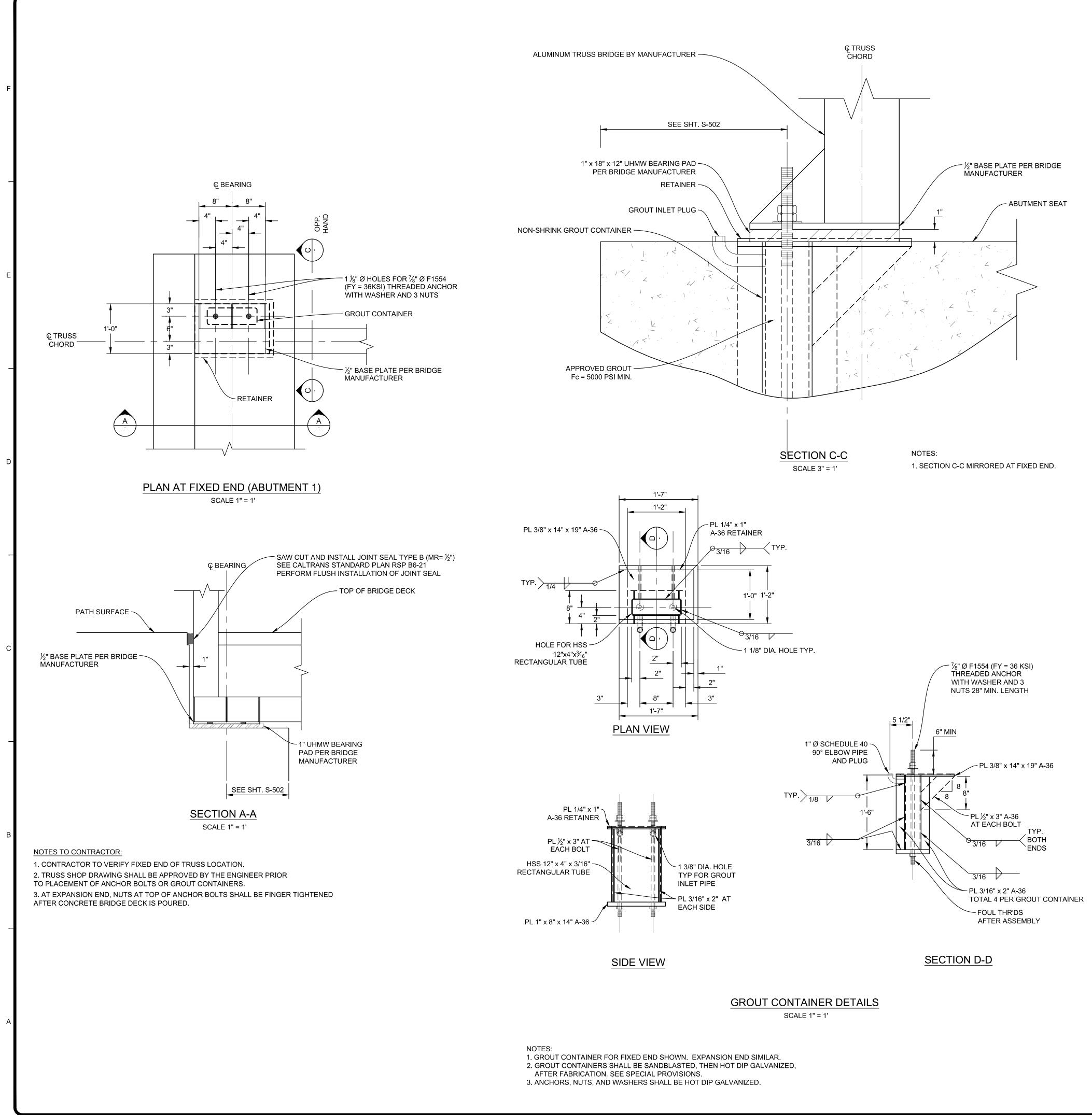
RUBBER-TIRED, LEGALLY LOADED EQUIPMENT SHALL BE OPERATED ON THE EXPOSED CHANNEL INVERT. IF STEEL CRAWLER TYPE

IMPROVEMENTS NOT TO BE MAINTAINED BY LOS ANGELES COUNTY DEPARTMENT OF PUBLIC WORKS OR LOS ANGELES COUNTY FLOOD CONTROL DISTRICT



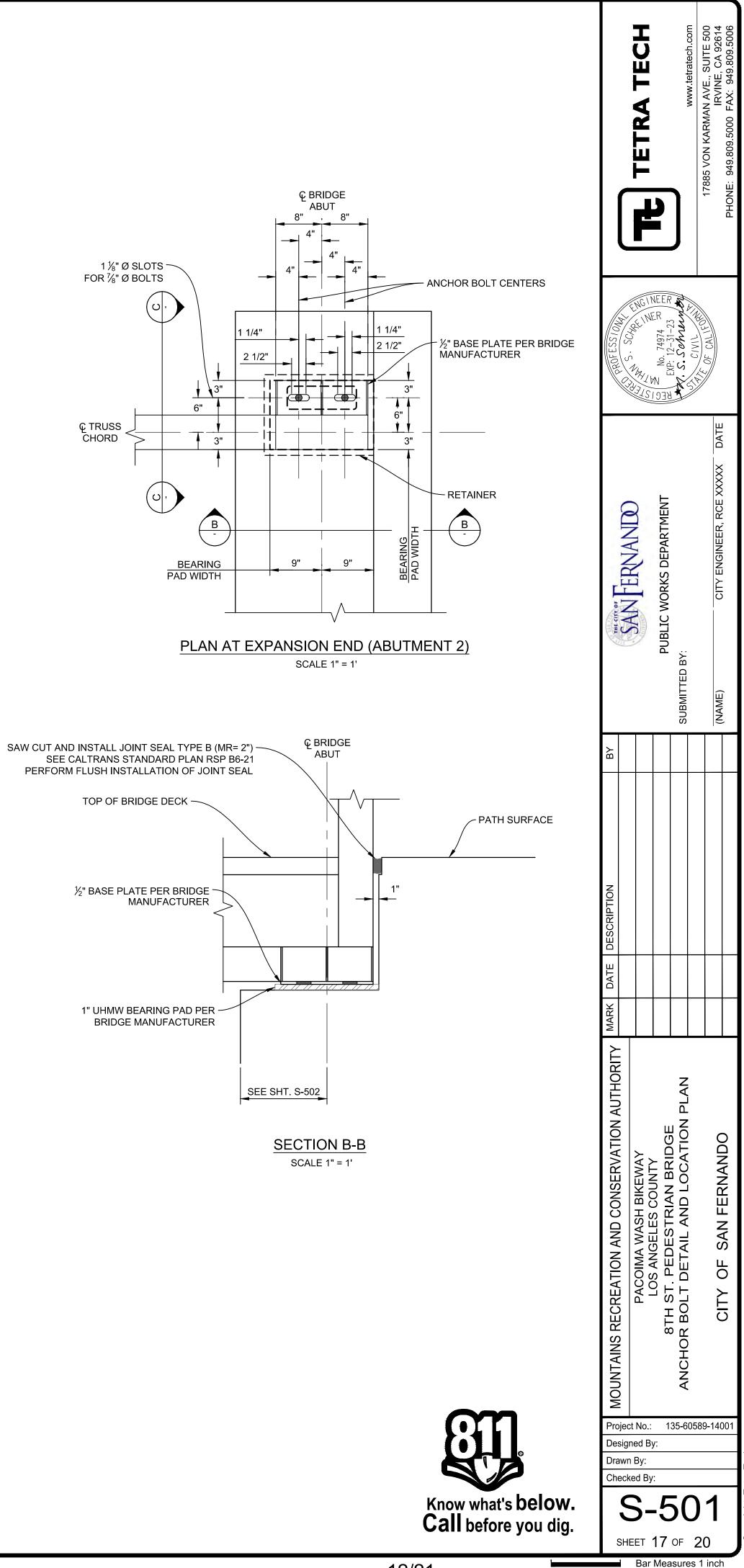
		TETRA TECH	5		www.tetratecn.com	17885 VON KARMAN AVE., SUITE 500 IRVINE. CA 92614	PHONE: 949.809.5000 FAX: 949.809.5006	
PROFESSION PROFESSION								
THEORY OF T	CANIFEDNIANIA)		PUBLIC WORKS DEPARTMENT	SUBMITTED BY:		(NAME) CITY ENGINEER RCE XXXXX DATE		
BΥ				0,				
DATE DESCRIPTION								
MARK								
MOLINTAINS RECREATION AND CONSERVATION ALTHORITY MARK DATE DESCRIPTION			RTH ST DEDESTRIAN RRIDGE	-			ULLE OF SAN FERNANDO	
Project No.: 135-60589-14001 Designed By: Drawn By:								
Checked By:								

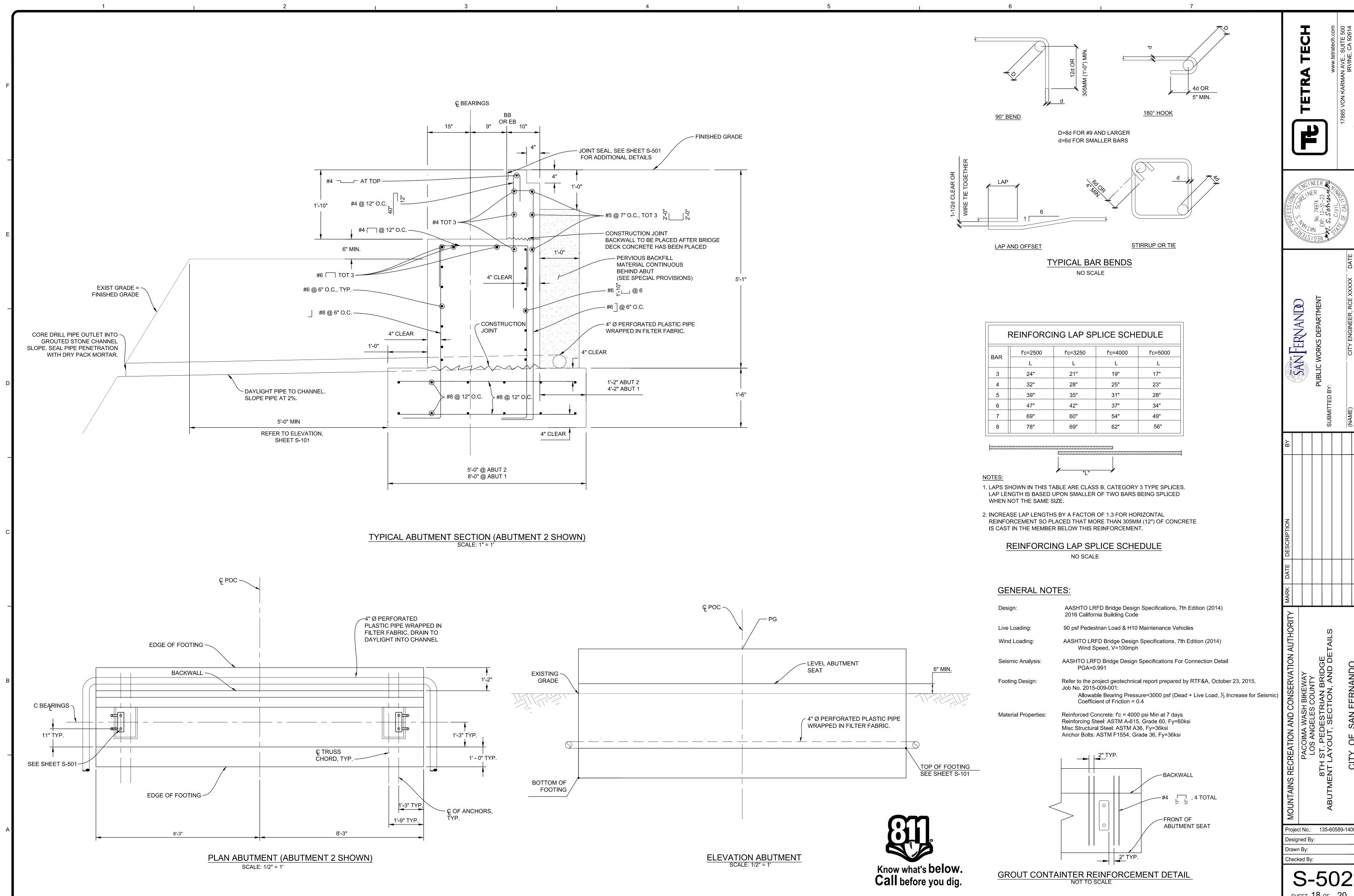
SHEET 16 OF 20



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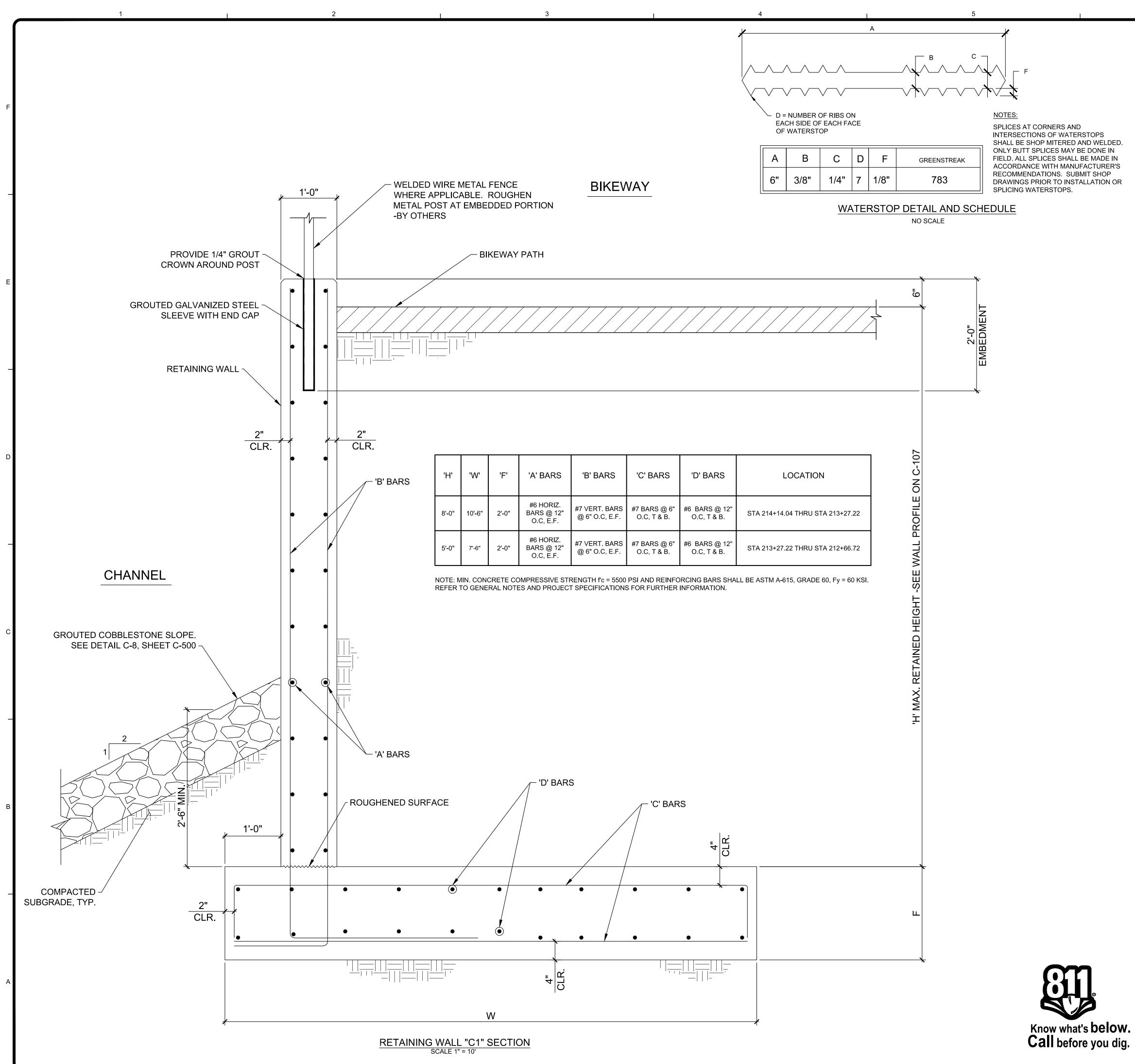


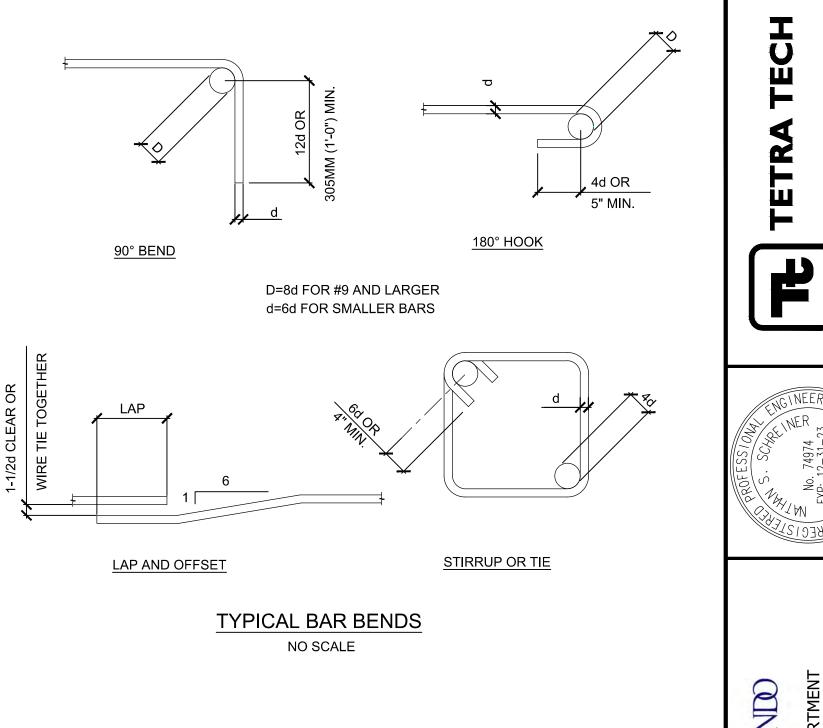




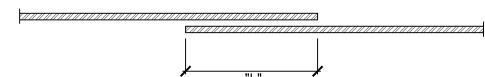
F	REINFORCING LAP SPLICE SCHEDULE						
BAR	AP fc=2500 fc=3250 fc=4000 fc=50						
DAN	L	L	L	L			
3	24"	21"	19"	17"			
4	32"	28"	25"	23"			
5	39"	35"	31"	28"			
6	47"	42"	37"	34"			
7	69"	60"	54"	49"			
8	78"	69"	62"	56"			

GENERAL NO		MAR			
Design:	AASHTO LRFD Bridge Design Specifications, 7th Edition (2014) 2016 California Building Code	TΥ			
Live Loading:	90 psf Pedestrian Load & H10 Maintenance Vehicles	ÍOR		S	
Wind Loading:	AASHTO LRFD Bridge Design Specifications, 7th Edition (2014) Wind Speed, V=100mph	AUTH		ETAILS	
Seismic Analysis:	AASHTO LRFD Bridge Design Specifications For Connection Detail PGA=0.991	CONSERVATION AUTHORITY		UDE UDDE	DO
Footing Design:	Refer to the project geotechnical report prepared by RTF&A, October 23, 2015, Job No. 2015-009-001:	SERV,	BIKEWAY	IAN BRIDG	FERNANDC
	Allowable Bearing Pressure=3000 psf (Dead + Live Load, $\frac{1}{3}$ Increase for Seismic) Coefficient of Friction = 0.4	SONS			FER
Material Properties:	Reinforced Concrete: f'c = 4000 psi Min at 7 days Reinforcing Steel: ASTM A-615, Grade 60, Fy=60ksi Misc Structural Steel: ASTM A36, Fy=36ksi Anchor Bolts: ASTM F1554, Grade 36, Fy=36ksi			-US ANGELES T. PEDESTR YOUT, SECT	OF SAN
<	BACKWALL #4 , 4 TOTAL FRONT OF ABUTMENT SEAT	MOUNTAINS RECREATION AND		8TH S ABUTMENT LA	CITY
			ect No.: gned B		89-14001
			n By:		
		Cheo	ked By	<i>ı</i> :	
GROUT CONT	AINTER REINFORCEMENT DETAIL NOT TO SCALE			-5C 18 o⊧	





F	REINFORCING LAP SPLICE SCHEDULE							
	f'c=2500	f'c=3250	f'c=4000	f'c=5000				
BAR	L	L	L	L				
3	24"	21"	19"	17"				
4	32"	28"	25"	23"				
5	39"	35"	31"	28"				
6	47"	42"	37"	34"				
7	69"	60"	54"	49"				
8	78"	69"	62"	56"				
9	88"	79"	70"	63"				
10	98"	88"	79"	70"				
11	108"	97"	87"	78"				
14	137"	123"	105"	94"				



NOTES:

1. LAPS SHOWN IN THIS TABLE ARE CLASS B, CATEGORY 3 TYPE SPLICES. LAP LENGTH IS BASED UPON SMALLER OF TWO BARS BEING SPLICED WHEN NOT THE SAME SIZE.

2. INCREASE LAP LENGTHS BY A FACTOR OF 1.3 FOR HORIZONTAL REINFORCEMENT SO PLACED THAT MORE THAN 305MM (12") OF CONCRETE IS CAST IN THE MEMBER BELOW THIS REINFORCEMENT.

> REINFORCING LAP SPLICE SCHEDULE NO SCALE

