PACOIMA WASH **BIKEWAY**

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

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

GENERAL NOTES

INSTALL ALL IMPROVEMENTS IN ACCORDANCE WITH CITY OF SAN FERNANDO, AND COUNTY OF LOS ANGELES REQUIREMENTS. IN CASE OF DISCREPANCY BETWEEN THESS 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

3. REVIEW THESE PLANS AND NOTES COMPLETELY. ANY DISCREPANCIES SHALL BE BROUGHT TO THE ATTENTION.

2. A VISIT TO IT BE 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 GEOTEON 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. SEFORE COMMENCING ANY WORK, OSTAIN AN UNDERGROUND SERVICE ID. BY CALLING DIG. ALERT AT 1-900.272-2500 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 PREFABITRUSS BRIDGE TO BE A DEFERRED SUBMITTAL AND THE USE OF IT WILL BE WITHHELD UNTIL PLANS, CALC. & REVIEW AND WAR PERMITTED, COMPLETED AND FINALED.

13. DISTAIN CITY OF SAN FERNIANDO, CITY OF LOS ANGELES INSPECTOR'S AND LANDSCAPE ARCHITECT TROP, CONSTRUCTION THE FOLLOWING REVIEW WINEETINGS ARE. MANDATORY. PROVIDE TWO (2) WORKING DAYS NOTICE FOR EACH REQUESTED VISIT.

1. PRESSURE ARCHITECTS REVIEW AND APPROVAL OF WORK IN. PROGRESS AT VARIOUS TIMES DURING CONSTRUCTION THE PRESSURE TEST AND TRENCH DEPTHS PRIOR TO BACKFILL OF TRENCHES

1. COVERAGE

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

Mountains Recreation and Conservation Authority (MRCA) 570 W. Ave 26 Ste.100, Los Angeles, CA 323-221-9944 x185 Phone:

323-441-8691 Contact: Liz Jennings, Project Manager

LANDSCAPE ARCHITECT

Mia Lehrer and Associates 185 S Myers Los Angeles, CA. 90033 Phone: 213.384.3844 213.384.3833

Contact: Jeff Hutchins, Project Manager

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

TITLE SHEET **GENERAL NOTES**

TYPICAL SECTIONS C-101-110 PLAN & PROFILE C-500 DRAINAGE DETAILS

GENERAL STRUCTURAL PLAN PEDESTRIAN BRIDGE S-501-504 DETAILS

CONSTRUCTION LEGEND L1.01-L1.06 CONSTRUCTION PLAN L2.01 CONSTRUCTION DETAILS CONSTRUCTION DETAILS

Pacoima Wash Bikeway

BRADLEY AVE TO PACOIMA WASH NATURAL PARK



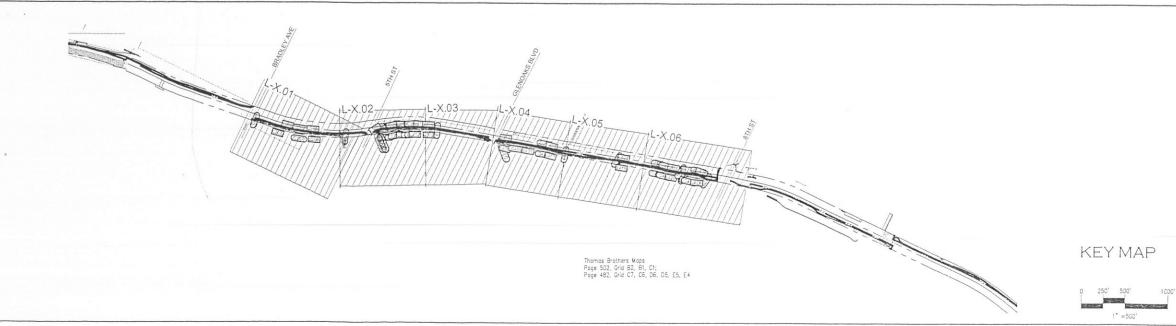
MIA LEHRER + ASSOCIATES

oject Team: TETRA TECH 17885 Von Karman, Ste. 500 Irvine, CA 92614 tel. 948 805-5209 fax. 949 809-5010 email: Joe.corroy@tetratech.



COVER SHEET

L-0.00



202(020 5 ATPL 0 Project 7 P

ed

P

PACOIMA WASH BIKEWAY

NOTICE TO CONTRACTORS

- SPECIFICATIONS: ALL WORK SHALL CONFORM TO THE LATEST EDITION AND SUPPLEMENTS OF THE STANDARD SPECIFICATIONS FOR PUBLIC WORKS CONSTRUCTION.
- PLAN REFERENCES: THIS IMPROVEMENT CONSISTS OF WORK CALLED FOR ONLY ON THIS PLAN.
- STANDARD PLANS FOR THIS PROJECT: SEE SHEET G-002
- INSPECTION: ALL WORK AND MATERIAL ARE SUBJECT TO INSPECTION BY
- THE CONTRACTOR SHALL OBTAIN A USA INQUIRY IDENTIFICATION NUMBER PER SECTION 5-1 OF THE STANDARD SPECIFICATIONS 48 HOURS PRIOR TO CONSTRUCTION, PHONE (800) 227-2600 OR 811.
- REASONABLE NOTICE SHALL BE GIVEN TO ADJACENT OWNERS OR OCCUPANTS OF THE PROPERTIES FRONTING THIS IMPROVEMENT PER
- THE CONTRACTOR SHALL REESTABLISH ALL PERTINENT SURVEY AS PER
- THE CONTRACTOR SHALL PROVIDE AN ALTERNATIVE ACCESSIBLE ROUTE FOR DISABLED PEDESTRIANS WHENEVER AN EXISTING ROUTE IS BLOCKED DUE TO SIDEWALK OR ROADWAY CONSTRUCTION, THE ALTERNATIVE ROUTE SHALL BE PROVIDED AT ALL TIMES EXCEPT AS APPROVED BY THE INSPECTOR OR ENGINEER. THE FOLLOWING TEMPORARY ALTERNATIVES MAY BE EMPLOYED. SUBJECT TO PRIOR APPROVAL BY THE INSPECTOR OR ENGINEER ON A SPECIFIC LOCATION
 - PROVIDE A MINIMUM 5-FOOT WIDE WALK.
 - PROVIDE TEMPORARY SIGNING WITH A DISABLED ACCESS LOGO POINTING TO AN ALTERNATIVE ACCESSIBLE ROUTE WITHIN 300 FEET.
- A 5-FOOT WIDE CLEAR WALKWAY IN A PARKING OR CLOSED CURB LANE, CORDONED OFF ON THE STREET SIDE WITH BRIGHTLY COLORED PLASTIC TAPE AND 'CANDLESTICK' DELINEATORS
- TEMPORARY AC CURB RAMPS IN A PARKING OR CLOSED CURB LANE NEXT TO THE CURB. THEY SHALL BE 4-FEET WIDE, PARALLEL TO THE STREET, WITH A 5-FOOT BY 5-FOOT LEVEL CLEAR LANDING AT THE TOP AND A MAXIMUM RAMP SLOPE OF 1:12. USE PLASTIC TAPE AND 'CANDLESTICK' DELINEATORS TO BLOCK OFF THE STREET SIDES (2) OF THE RAMP
- MOVABLE WOODEN CURB RAMPS AS IN "D" ABOVE SHALL HAVE WOODEN OR METAL HAND RAILS ON THE NONRAMP STREET SIDES.
- OTHER TEMPORARY ARRANGEMENTS AS THE INSPECTOR OR ENGINEER MAY AUTHORIZE.
- PAVING: PAVING OR ROADWAY AREAS SHALL BE WITHHELD UNTIL CONTEMPLATED UTILITY CHANGES OR INSTALLATIONS HAVE BEEN MADE UNDER CITY PERMIT. FINAL AC PAVING SHALL NOT BE PLACED UNTIL ALL AC BASE IS PLACED.

- 10. LIMITS OF COLDPLANE AND OVERLAY TO BE DETERMINED BY THE CITY ENGINEER PRIOR TO CONSTRUCTION.
- 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 COORDINATED THROUGH LADOT BEFORE INSTALLATION.
- 14. REMOVALS: REMOVE EXISTING IMPROVEMENTS THAT INTERFERE WITH THE CONSTRUCTION OF THIS PROJECT AND COORDINATE WITH ALL OWNERS OF EXISTING FACILITIES.
- 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 ESTABLISHED AND PROVIDED BY THE CITY
- 17. THE CONTRACTOR SHALL PROTECT ALL EXISTING DRAINAGE 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 FINISHED GRADE

- 19. 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
 - 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.
- 23. 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
- 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)
- 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 LINES SHALL BE PERFORMED IN ACCORDANCE WITH THE LATEST PROVISIONS OF ARTICLE 86, STAGE OF CALIFORNIA HIGH VOLTAGE FLECTRIC SAFETY ORDER

WORKS

PATSY OROZCO

SOFIA ALEMAN

DEPARTMENT OF PUBLIC

MOUNTAINS RECREATION & CONSERVATION AUTHORITY

- 28. ALL PROVISIONS OF THE LOS ANGELES COUNTY FLOOD CONTROL DISTRICT PERMIT SHALL BE COMPLIED WITH. THE CONTRACTOR SHALL NOT ENTER THE PACOIMA WASH CHANNEL AT ANY TIME DURING THE RAINY SEASON (OCTOBER 15TH THRU APRIL 15TH) WITHOUT PRIOR NOTICE AND AUTHORIZATION BY THE LOS ANGELES COUNTY ENGINEER.
- 29. IT SHALL BE THE CONTRACTOR'S RESPONSIBILITY TO OBTAIN ALL RIGHTS TO USE PROPERTIES OUTSIDE THE PUBLIC RIGHT OF WAY AND TEMPORARY EASEMENTS SHOWN ON THESE PLANS WHICH HE DEEMS NECESSARY TO PERFORM ANY OF THE WORK UNDER THIS CONTRACT AT NO ADDITIONAL COST TO THE CITY
- 30. CONTRACTOR IS RESPONSIBLE FOR VERIFYING AMOUNT OF

IMPROVEMENTS NOT TO BE MAINTAINED BY LOS ANGELES COUNTY DEPARTMENT OF PUBLIC WORKS OR THE LOS ANGELES

FLOOD CONTROL DISTRICT.

VICINITY MAP

THOMAS BROTHERS MAPS - PAGE 502, GRID B2, B1, C1; PAGE 482, GRID C7, C6, D6, D5, E5, E4

CITY OF SAN FERNANDO

PROJECT

PROJECT

MANAGEMENT:

MANAGEMENT:

CONSULTANTS

LANDSCAPE ARCHITECT

PROJECT TEAM

Call before you dig.

MIA LEHRER & ASSOCIATES

MATT ROMERO, ASLA

PROJECT MANAGER

ROADWAY/ BIKEWAY/ SURVEY/

REVIEWED BY:

TRAFFIC:

TETRA TECH NATHAN SCHREINER, P.E.

GEOTECHNICAL: RT FRANKIAN & ASSOCIATES ALAN RASPLICKA, P.E., G.E.

LOS ANGELES COUNTY FLOOD CONTROL PERMIT **LACFCD PERMIT No. 2017-006569** Know what's below.

oject No.: 135-60589-1400 esigned By: awn By:

G-001 SHEET 1 OF 20

APPROVED B

CONSTRUCTION NOTES

- 4" ASPHALT CONCRETE PAVEMENT
- (2) 8" CMB COMPACTED TO 95%
- (3) 6' HIGH WELDED WIRE FENCE BY OTHERS
- (4) PROTECT IN PLACE
- 5) 6' DOUBLE SWING WELDED WIRE GATE BY OTHERS
- (6) REMOVE EXISTING GATE
- (7) RAMP
- (8) BOLLARD BY OTHERS
- 9) 8" CONC CURB A1-8 PER SPPWC STD PLAN 120-2
- (10) 8" CONC CURB AND GUTTER PER SPPWC STD PLAN 120-2
- (11) RETAINING WALL
- (12) REMOVE EXISTING AC TO A DEPTH 8" BELOW EXISTING SURFACE
- (13) CONCRETE HEADWALL AND WINGWALL. SEE DETAIL C-1 ON SHEET C-500
- (14) BIOSWALE. SEE DETAIL C-6 ON SHEET C-500
- (15) ROCK SLOPE PROTECTION. SEE DETAIL C-7 ON SHEET C-500
- (16) PARKWAY DRAIN PER SPPWC STD PLAN 151-2

LEGEND	EXISTING	PROPOSED
CENTER LINE		
CUT/FILL LINE		
CONTOUR	1137	1137
DIRECTION OF FLOW AND SLOPE	(2%)	2%
SIGN	4	_
FENCE		xx
ABBREVIATIONS	GB HP	GRADE BREAK HIGH POINT

ABBREVIA	TIONS	GB HP	GRADE BREAK HIGH POINT
A AC AGG APPROX ASTM BC BEG BM C CFS C C CMB CONC EC	DELTA ASPHALT CONCRETE ASPHALT CONCRETE APPROXIMATELY AMERICAN SOCIETY FOR TESTING AND MATERIALS BEGIN CUPE BEGIN BENCHMARK CUT CUBIC FEET PER SECOND CENTERLINE OF ROADWAY CRUSHED MISCELLANEOUS BASE CONCRETE END CURVE	IN L LOL LP MAX MIN NG OG PC PROP. PT PVC PVI PVI R	INCH (INCHES) LENGTH LAY OUT LINE LOW POINT INAXIMUM ININIUM NATURAL GROUND ORIGINAL GROUND POINT OF CURVATURE PORTLAND CEMENT CONCRETE PROPOSED POINT OF VERTICAL CURVATURE POINT OF VERTICAL CURVATURE POINT OF VERTICAL INFLECTION POINT OF VERTICAL INFLECTION POINT OF VERTICAL TANGENCY RADIUS
EG ELEV EP ET EX FG FL FS FT	EXISTING GROUND ELEVATION EDGE OF PAVEMENT ELECTRICAL TOWER EXISTING FINISHED GRADE FLOW LINE FINISHED SURFACE FOOT (FEET)	ROW R/W SPPWC STA STD TYP VAR	RIGHT OF WAY RIGHT OF WAY STANDARD PLANS FOR PUBLIC WORKS CONSTRUCTION STATION STANDARD TYPICAL VARIES

GENERAL NOTES

- 1. THE ENGINEER SHALL EXERCISE SUFFICIENT SUPERVISORY CONTROL DURING GRADING AND CONSTRUCTION TO ENSURE COMPLIANCE
- THE SOILS ENGINEER MUST APPROVE ALL GRADING INCLUDING THE STABILITY OF ANY SLOPES CREATED, EXISTING, OR REMAINING. TH SOILS ENGINEER SHALL ALSO CERTIFY THAT THE REQUIRED INSPECTIONS AND TEST HAVE SEEN PERFORMED AND THAT SUCH TESTS COMPLY WITH THE CODE.
- 3. NO WORK SHALL BE STARTED WITHOUT FIRST NOTIFYING THE CITY PROJECT MANAGER AT LEAST TWO WORKING DAYS IN ADVANCE.
- 4. DUST SHALL BE CONTROLLED BY WATERING TO THE SATISFACTION OF THE CITY PROJECT MANAGER
- 5. ALL PUBLIC STREETS SHALL BE MAINTAINED FREE OF DUST AND MUD CAUSED BY GRADING OPERATIONS.
- 6. CONTOURS SHOWN IN PARENTHESIS REPRESENT ORIGINAL GROUND.
- A COPY OF THE GRADING PERMIT AND APPROVED GRADING PLANS MUST BE IN THE POSSESSION OF AN ON-SITE FOREMAN OR SUPERINTENDENT AND AVAILABLE AT THE JOBSITE TRAILER AT ALL TIMES.
- 8. ANY MODIFICATIONS OF, OR CHANGES TO, APPROVED GRADING PLANS MUST BE APPROVED BY THE CITY PROJECT MANAGER PRIOR TO IMPLEMENTATION IN THE FIELD.
- 9. SEPARATE PLANS FOR TEMPORARY DRAINAGE AND EROSION CONTROL MEASURES TO BE USED DURING THE RAINY SEASON MUST BE SUBMITTED PRIOR TO OCTOBER 1, THE EROSION CONTROL DEVICES SHOWN ON SAID PLANS MUST BE INSTALLED BY NO LATER THAN OCTOBER 1 AND MAINTAINED IN OPERABLE CONDITION UNTIL APRIL 15 OF THE FOLLOWING YEAR. (17,25,030 U.D.C.) THIS WORK SHALL BE INCLUDED IN THE COST OF ALL SLOPES.
- THE FACES OF CUT AND FILL SLOPES SHALL BE PREPARED AND MAINTAINED TO CONTROL EROSION. THIS CONTROL MUST CONSIST OF JUTE NETTING AND EFFECTIVE PLANTING, OR OTHER DEVICES SATISFACTORY TO THE CITY PROJECT MANAGER, (17.28.020(A) U.D.C.)
- A PREVENTIVE PROGRAM TO PROTECT THE SLOPES FROM POTENTIAL DAMAGE FROM BURROWING RODENTS IS REQUIRED. OWNER TO INSPECT SLOPES PERIODICALLY FOR EVIDENCE OF BURROWING RODENTS AND AT FIRST EVIDENCE OF THEIR EXISTENCE SHALL EMPLOY AN EXTERMINATOR FOR THEIR REMOVAL. (17.28.020(E) U.D.C.)
- 12. WHERE NECESSARY, CHECK DAMS, RIPRAP, OR OTHER DEVICES OR METHODS SHALL BE EMPLOYED FOR EROSION CONTROL. ALSO, JUTE NETTING SHALL BE IMMEDIATELY INSTALLED ON ANY SLOPES HAVING A VERTICAL HEIGHT OF FIVE FEET OR MORE AND STEEPER THAN 3:1 (H:V) TO MINIMIZE OR CONTROL EROSION PROBLEMS.
- 13. ALL TRASH RUBBLE AND DERRIS INCLUDING BURIED TRASH RUBBLE AND DEBRIS ENCOUNTERED WITHIN THE PROJECT LIMITS SHALL BE REMOVED AND DISPOSED OF OFFSITE BY THE CONTRACTOR AT AN APPROVED LOCATION. CONTRACTOR SHALL PAY ALL ASSOCIATED
- 14. CONTRACTOR SHALL BE RESPONSIBLE FOR SITE SECURITY AT THE STAGING AND STORAGE AREA DURING CONSTRUCTION, TEMPORARY FENCING NOTED IN THE CONTRACTOR'S SITE SECURITY PLAN SHALL BE INSTALLED AND MAINTAINED BY THE CONTRACTOR DURING THE ENTIRE CONSTRUCTION OF THE PROJECT.
- 15. THE CONTRACTOR SHALL COMPLY WITH ALL LOCAL, STATE AND FEDERAL REGULATIONS RELATED TO THE SAFETY OF PERSONNEL THE PUBLIC ON THE JOB SITE, INCLUDING APPLICABLE OCCUPATIONAL SAFETY AND HEALTH ADMINISTRATION (OSHA) REGULATIONS AND, IN PARTICULAR, THOSE DEALING WITH TRENCHING AND SHORING AS WELL AS USACE EM 385-1-1.
- 16. DURING THE COURSE OF ALL WORK ON THE PROJECT. THE CONTRACTOR SHALL ASSUME SOLE AND COMPLETE RESPONSIBILITY FOR ALL DURING THE COURSE OF ALL WORK ON THE PROJECT, THE CONTRACTOR SHALL ASSUME SOLE AND COMPLETE RESPONSIBILITY FOR ALL JOB SITE CONDITIONS INCLUDING SAFETY OF ALL PRESPONS AND SECURITY OF ALL PROPERTY. THE CONTRACTOR SHALL SUPERVISE AND DIRECT THE WORK USING THE SKILLS AND ATTENTION UTILIZED WITHIN THE INDUSTRY. THE CONTRACTOR SHALL BE SOLELY RESPONSIBLE FOR ALL CONSTRUCTION MEANS, METHODS, TECHNIQUES, SEQUENCES AND PROCEDURES AND FOR COORDINATING ALL PORTIONS OF THE WORK UNDER THIS CONTRACT, THIS REQUIREMENT SHALL APPLY CONTINUOUSLY AND NOT BE LIMITED TO NORMAL WORKING HOURS. THE CONTRACTOR SHALL DEFEND, INDEMNIFY AND HOLD THE CITY AND THE ENGINEER HARMLESS FROM ANY AND ALL LIABILITY, REAL OR ALLEGED, IN CONNECTION WITH THE PERFORMANCE OF THE WORK ON THIS PROJECT, EXCEPTING LIABILITY ARISING FROM THE SOLE NEGLIGENCE OF THE CITY OR ENGINEER.
- 17. THE CONTRACTOR SHALL PROTECT ALL ADJACENT PROPERTY AND EXISTING AND NEW IMPROVEMENTS, AND SHALL PROVIDE POSITIVE CONTROL OF EARTH SPILLAGE, CONSTRUCTION WATER AND RUNOFF WATER FROM THE SITE.
- 18. THE CONTRACTOR SHALL PERFORM EXCAVATION IN A SAFE CONDITION. THE CONTRACTOR IS SOLELY RESPONSIBLE FOR SHORING, SHEETING, OR OTHER PROTECTIVE MEASURES TO PREVENT DAMAGE TO ADJACENT PROPERTIES, STRUCTURES OR UTILITY FACILITIES.
- 19. IF UNANTICIPATED CONDITIONS ARE ENCOUNTERED DURING THE COURSE OF CONSTRUCTION, THE CONTRACTOR SHALL IMMEDIATELY BRING THE CONDITION TO THE ATTENTION OF THE CITY PROJECT MANAGER.
- 20. THE CONTRACTOR SHALL BE EXTRA CAUTIOUS WORKING IN THE VICINITY OF EXISTING CHANNEL. FOR THE PURPOSE OF SOIL COMPACTION, THE CONTRACTOR SHALL USE HAND HELD EQUIPMENT WHEN WORKING ADJACENT TO OR OVER THE CHANNEL IN ORDER TO NOT CAUSE ANY STRUCTURAL DAMAGE TO THE CHANNEL.
- 21. PRIOR TO ANY CONSTRUCTION WORK, THE CURRENT CONDITION OF THE EXISTING CHANNEL SHALL BE INSPECTED AND DOCUMENTED.
 AFTER THE COMPLETION OF CONSTRUCTION, THE CHANNEL SHALL BE REINSPECTED AND MONITORED FOR THE POSSIBLE DAMAGES. IN
 THE EVENT THAT ANY DAMAGE IS IDENTIFIED AT ANY TIME, IMMEDIATE REPLACEMENT OR REPAIR TO THE SATISFACTION OF LACDPW WILL BE REQUIRED AT THE PERMITTEE'S EXPENSE.
- 22. CITY OF SAN FERNANDO ACKNOWLEDGES THAT PACOIMA WASH FLOOD CONTROL CHANNEL IS A WORKING FLOOD CONTROL AND WATER CONSERVATION FACILITY, AND THE USE OF THE LACFCD'S RIGHT-OF-WAY FOR THE PROPOSED PROJECT SHALL NOT DECREASE THE CHANNEL'S CAPACITY, IMPOSE ANY ADDITIONAL REGULATORY BURDEN ON THE LACFCD, OR INTERFERE WITH LACFCD OR ITS CONTRACTORS' OPERATION AND MAINTENANCE ACTIVITIES OF THE CHANNEL AND ITS APPURTENANT STRUCTURES. THE CHANNEL AND ITS APPURTENANT STRUCTURES. THE CHANNEL AND ITS APPURTENANT STRUCTURES. THE CHANNEL AND ITS APPURTENANT STRUCTURES.
- 23. THE PERMITTEE ACKNOWLEDGES THAT LACFCD PERFORMS PERIODIC MAINTENANCE ON AND WITHIN PACOIMA WASH, DURING WHICH SECTIONS OF THE PATH MAY NEED TO BE CLOSED TO FULFILL THESE MAINTENANCE FUNCTIONS. THE LACFCD AND LOS ANGELES COUNTY DEPARTMENT OF PUBLIC WORKS ARE NOT RESPONSIBLE FOR PROVIDING ALTERNATIVE BICYCLE/PEDESTRIAN ACCESS TO OR ALONG PACOIMA WASH.
- 24. CITY OF SAN FERNANDO AND ITS CONTRACTORS ACKNOWLEDGE THAT DURING CONSTRUCTION OF THE PROJECT AND SUBSEQUENT MAINTENANCE OF THE PROPOSED FEATURES, NO EQUIPMENT OR PERSONNEL SHALL BE PRESENT IN THE CHANNEL DURING STORM SEASON, WORK MUST BE PERFORMED WITH A FIVE-DAY CLEAR WEATHER FORECAST AND ENTRY TO THE CHANNEL IS NOT PERMITTED
- 25. CITY OF SAN FERNANDO AND ITS CONTRACTORS SHALL NOTIFY FLOOD MAINTENANCE DIVISION (HANSEN YARD) AT TELEPHONE (818) 896-0594 AND WATER RESOURCES DIVISION (OPERATIONS SECTION) AT TELEPHONE (628) 458-6177 AND PROVIDE THEM WITH A SCHEDULE OF ACTIVITIES AT LEAST 72 HOURS BEFORE STARTING ANY WORK UNDER THE PERMIT(S).
- 26. CITY OF SAN FERNANDO SHALL BE SOLELY RESPONSIBLE FOR COMPLYING WITH ALL LOCAL, STATE AND FEDERAL LAWS, REGULATORY DOCUMENTATION, ENTITLEMENTS, AND COMPLIANCE IN ITS USE OF LACFCD'S RIGHT OF WAY, INCLUDING BUT NOT LIMITED TO THE OPERATION AND MAINTENANCE OF THE PROPOSED DEVICES INSTALLED WITHIN LACFCD'S RIGHT-OF-WAY, PLEASE NOTE LACFCD'S RIGHTS OF WAY FOR THE PACOIMA WASH WERE ACQUIRED ACROSS CERTAIN STRETCHES OF THE CHANNEL FOR THE PURPOSES OF THE U.S. ARMY CORPS OF ENGINEERS' CONSTRUCTION OF THE CHANNEL. THEREFORE, USE OF THIS LAND BY THE PERMITTEE AND SUCCESSOR OPERATORS WILL NEED TO BE APPROVED BY THE CORPS, AS MAY ANY DESIGN PLANS OF THE PERMITTEE AND HIS SUCCESSOR OPERATORS FOR FEATURES THEY PROPOSE TO INSTALL ON THE PROPERTY.
- 27. CITY OF SAN FERNANDO MUST COMPLY WITH ALL OCCUPATIONAL SAFETY AGENCY DIRECTIVES WHILE PERFORMING WORK WITHIN
- 28. CITY OF SAN FERNANDO SHALL DEFEND AND HOLD THE LACFCD HARMLESS FOR ANY DAMAGES OR VIOLATION OF LOCAL, STATE AND FEDERAL LAWS THAT RESULT FROM ITS OR ITS CONTRACTORS' USE OF LACFCD'S RIGHT-OF-WAY.
- 29. AN INDEMNIFICATION CLAUSE TO HOLD LACFCD HARMLESS IN THE EVENT OF ANY INCIDENTS SHALL BE ADDED TO THE LEASE AND PERMIT DOCUMENTS. IN THE EVENT THE PERMITTEE TRANSFERS OPERATION AND MAINTENANCE OF THE TRAIL TO ANOTHER ENTITY, THE PERMITTEE SHALL OBTAIN SUCCESSOR'S ACKNOWLEDGEMENT OF AND ITS AGREEMENT TO ABIDE BY THE CONDITIONS OF THIS LEASE/PERMIT PRIOR TO THE TRANSFER.
- 30. PROTECT UTILITY WITHIN THE USACE RIGHT-OF-WAY.
- 31. PROVISIONS SHALL BE MADE TO PREVENT DEBRIS FROM FALLING INTO THE CHANNEL DURING CONSTRUCTION
- 32. COMPACTION EQUIPMENT USED TO PLACE BACKFILL BEHIND CHANNEL WALL MUST NOT EXCEED 35,000 POUNDS INCLUDING DYNAMIC FORCES FROM VIBRATOR COMPACTOR.

- 33. NO EQUIPMENT IN EXCESS OF H-10 HIGHWAY LOADING (AASHTO), AND NO STOCKPILING OF MATERIAL WILL BE PERMITTED ALONG THE HANNEL WITHIN A DISTANCE OF WALL HEIGHT
- 34. NO EQUIPMENT IN EXCESS OF H-20 HIGHWAY LOADING WILL BE PERMITTED TO OPERATE ON THE INVERT OF THE CHANNEL. ONLY 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 EQUIPMENT IS USED, WOODEN MATTING SHALL BE PROVIDED OVER THE INVERT IN THE OPERATING AREA. LOADS FROM TRACK VEHICLES SHALL NOT EXCEED 300PSF ON A SURFACE AT THE BOTTOM OF THE INVERT SLAB.

- 35. ALL FILL SHALL BE COMPACTED TO THE FOLLOWING MINIMUM RELATIVE COMPACTION CRITERIA:

 A. 90 PERCENT OF MAXIMUM DRY DENSITY WITHIN 40 FEET BELOW FINISH GRADE.

 B. 93 PERCENT OF MAXIMUM DRY DENSITY DEEPER THAN 40 FEET BELOW FINISH GRADE, UNLESS A LOWER RELATIVE COMPACTION (NOT LESS THAN 90 PERCENT OF MAXIMUM DRY DENSITY IS JUSTIFIED BY THE GEOTECHNICAL ENGINEER.

 C. 95 PERCENT OF MAXIMUM DRY DENSITY IS REQUIRED ON ALL SLOPES GREATER THAN 2:1.

 THE RELATIVE COMPACTION SHALL BE DETERMINED BY ASTIM SOIL COMPACTION TEST D1557-91, WHERE APPLICABLE; WHERE NOT APPLICABLE A TEST ACCEPTABLE TO THE CITY PROJECT MANAGER SHALL BE USED. (17.27.020(A) U.D.C.)
- 21. FIELD DENSITY SHALL BE DETERMINED BY A METHOD ACCEPTABLE TO THE CITY PROJECT MANAGER, HOWEVER, A MINIMUM OF 10 PERCENT OF THE REQUIRED DENSITY TESTS SHALL BE OBTAINED BY THE SAND CONE METHOD (ASTM D1566). THE REQUIRED 10 PERCENT BY SAND CONE METHOD SHALL BE UNIFORMLY DISTRIBUTED THROUGHOUT THE DEPTHS AND LIMITS OF THE FILL.

- 22. SUFFICIENT TESTS OF THE FILL SOILS SHALL BE MADE TO DETERMINE THE RELATIVE COMPACTION OF THE FILL IN ACCORDANCE WITH THE FOLLOWING MINIMUM GUIDELINES:

 A. ONE TEST FOR EACH TWO-FOOT VERTICAL LIFT.

 B. ONE TEST FOR EACH 1,000 CUBIC YARDS OF MATERIAL PLACED.

 C. ONE TEST AT THE LOCATION OF THE FINAL FILL SLOPE FOR EACH BUILDING SITE(LOT) IN EACH FOUR-FOOT VERTICAL LIFT OR
- D. ONE TEST IN THE VICINITY OF EACH BUILDING PAD FOR EACH FOUR-FOOT VERTICAL LIFT OR PORTION THEREO
- E. ONE TEST AT THE LOCATION OF THE FINAL FILL SLOPE FOR EACH BUILDING SITE(LOT) PER SAND CURVE TEST.
 SUFFICIENT TESTS OF FILL SOILS SHALL BE MADE TO VERIFY COMPLIANCE OF THE SOIL PROPERTIES WITH THE DESIGN REQUIREMENTS. NCLUDING SOIL TYPES AND SHEAR STRENGTHS. THE RESULTS OF SUCH TESTING SHALL BE INCLUDED IN THE REPORTS REQUIRED BY
- NO FILL SHALL BE PLACED UNTIL STRIPPING OF VEGETATION, REMOVAL OF UNSUITABLE SOILS, AND INSTALLATION OF SUBDRAINS (IF ANY) HAVE BEEN INSPECTED AND APPROVED BY THE GEOTECHNICAL ENGINEER. (17.27.020(B) U.D.C.)
- 24. NO ROCK OR SIMILAR MATERIAL GREATER THAN 4 INCHES IN DIAMETER WILL BE PLACED IN THE FILL UNLESS RECOMMENDATIONS FOR SUCH PLACEMENT HAVE BEEN SUBMITTED BY THE GEOTECHNICAL ENGINEER AND APPROVED IN ADVANCE BY THE CITY PROJECT
- 25. CONTINUOUS INSPECTION BY THE GEOTECHNICAL ENGINEER OR HIS RESPONSIBLE REPRESENTATIVE SHALL BE PROVIDED DURING ALL FILL PLACEMENT AND COMPACTION OPERATIONS WHERE FILLS HAVE A VERTICAL HEIGHT OR DEPTH GREATER THAN 30 FEET OR SLOPE SURFACE STEEPER THAN 2:1. (17.27.020(G) U.D.C.)
- 26. CONTINUOUS INSPECTION BY THE GEOTECHNICAL ENGINEER OR HIS RESPONSIBLE REPRESENTATIVE SHALL BE PROVIDED DURING ALL SUBDRAIN INSTALLATIONS. (17.27.020(B) U.D.C.)
- 27. FILL SLOPES IN EXCESS OF 2:1 STEEPNESS RATIO ARE TO BE CONSTRUCTED BY THE PLACEMENT OF SOIL AT SUFFICIENT DISTANCE BEYOND THE PROPOSED FINISH SLOPE TO ALLOW COMPACTION EQUIPMENT TO BE OPERATED AT THE OUTER LIMITS OF THE FINAL SLOPE SURFACE. THE EXCESS FILL IS TO BE REMOVED PRIOR TO COMPLETION OF ROUGH GRADING, (OTHER CONSTRUCTION PROCEDURES MAY BE USED WHEN IT IS DEMONSTRATED TO THE SATISFACTION OF THE CITY PROJECT MANAGER THAT THE ANGLE OF SLOPE, CONSTRUCTION METHOD AND OTHER FACTORS WILL HAVE EQUIVALENT EFFECT).
- 28. THE GEOTECHNICAL ENGINEER SHALL PROVIDE SUFFICIENT INSPECTIONS DURING THE PREPARATION OF THE NATURAL GROUND AND THE PLACEMENT AND COMPACTION OF THE FILL TO BE SATISFIED THAT THE WORK IS BEING PERFORMED IN ACCORDANCE WITH THE PLAN AND APPLICABLE CODE REQUIREMENTS. (17.29.010(D) U.D.C.).
- 29. THE GRADING CONTRACTOR SHALL SUBMIT THE STATEMENT REQUIRED BY SECTION 17.29.020 U.D.C. AT THE COMPLETION OF ROUGH GRADING.

INSPECTION NOTES

- 30. THE CONTRACTOR SHALL NOTIFY THE CITY PROJECT MANAGER AT LEAST ONE WORKING DAY IN ADVANCE OF REQUIRED INSPECTIONS AT FOLLOWING STAGES OF THE WORK:

- FOLLOWING STAGES OF THE WORK:

 A. INITIAL, WHEN THE SITE HAS BEEN CLEARED OF VEGETATION AND UNAPPROVED FILL AND IT HAS BEEN SCARIFIED, BENCHED OR OTHERWISE PREPARED FOR FILL. NO FILL SHALL HAVE BEEN PLACED PRIOR TO THIS INSPECTION.

 B. ROUGH, WHEN APPROXIMATE FINAL LELVATIONS HAVE BEEN ESTABLISHED, DRAINAGE TERRACES, SWALES AND BERMS INSTALLED AT THE TOP OF THE SLOPES; AND THE STATEMENTS REQUIRED IN SECTION 17.29.20 U.D.C. HAVE BEEN RECEIVED.

 C. FINAL WHEN GRADING HAS BEEN COMPLETED; ALL DRAINAGE DEVICES INSTALLED; SLOPE AUTINING ESTABLISHED, IRRIGATION SYSTEMS INSTALLED AND THE AS-BUILT PLANS, REQUIRED STATEMENTS, AND REPORTS HAVE BEEN SUBMITTED. (17.29.010(C) U.D.C.)

ENGINEERED GRADING REQUIREMENTS

31. IN ADDITION TO THE INSPECTION REQUIRED BY THE DEVELOPMENT SERVICES DIVISION FOR REGULAR GRADING, REPORTS AND STATEMENTS SHALL BE SUBMITTED TO THE CITY PROJECT MANAGER IN ACCORDANCE WITH SECTION 17.29.020 U.D.C.

- 32. SECURE PERMISSION FROM THE DEVELOPMENT SERVICES DIVISION THROUGH THE CITY PROJECT MANAGER FOR CONSTRUCTION OR GRADING WITHIN STREET RIGHT-OF-WAY.
- 33. GRADING IN FUTURE STREET RIGHT-OF-WAY MUST BE INSPECTED BY THE CITY.
- 34. A STORMWATER POLLUTION PREVENTION PLAN MUST BE PREPARED AND A COPY AVAILABLE FOR REVIEW AT THE PROJECT SITE AT ALL THIS. ALL MEASURES OUTLINED IN THE PROJECT STORMWATER POLLUTION PREVENTION PLAN MUST BE IMPLEMENTED THROUGHOUT THE DURATION OF THE PROJECT.

PAVEMENT MARKINGS/STRIPING

35. ALL PAVEMENT MARKINGS/STRIPING SHALL BE PER CALTRANS STANDARD PLANS (2015 EDITION), ALL PAVEMENT MARKINGS/STRIPING ON AC PAYERIETY MANUNINGS INFINES SHALL BE TWO COATS OF YELLOW TRAFFIC PAINT, GLASS BEAD IN THE SECOND COAT, NO THERMOPLASTIC PAINT SHALL BE USED ON THE PREVIOUS CONCRETE PAYEMENT UNLESS OTHERWISE INDICATED, CONTACT DTC (DISPENSING TECHNOLOGY CORPORATION) FOR EQUIPMENT USE, (BER, 805 522-7733).

TOPOGRAPHIC DATA

36. TOPOGRAPHIC FEATURES SHOWN HEREON ARE BASED ON AN AERIAL SURVEY PERFORMED IN JUNE 2014 BY ARROWHEAD MAPPING

PROJECT BENCHMARK

BENCHMARK: CITY OF LA BENCHMARK 03-069 SPK NE CURB GLENOAKS BLVD; 3 FT NW OF BCR NW OF MACLAY ST ELEVATION: 1130.43 DATUM: NGVD 1929

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

OWNER

DEPARTMENT: TELEPHONE: REPRESENTATIVE: PUBLIC WORKS

EARTHWORK

UNCLASSIFIED EXCAVATION: 5923 CY

WORK TO BE DONE

THE IMPROVEMENTS CONSIST OF THE FOLLOWING WORK TO BE DONE ACCORDING TO THESE PLANS, SPECIAL PROVISIONS, PROJECT SPECIFICATIONS, AND THE SPECIFICATIONS AND STANDARD DRAWINGS OF THE CITY OF SAN FERNANDO.

STANDARD SPECIFICATIONS

- STANDARD SPECIFICATIONS FOR PUBLIC WORKS CONSTRUCTION
 "GREEN BOOK" (2015 EDITION).
 STORMWATER BEST MANAGEMENT PRACTICES HANDBOOK,
- CASQA.
 3. CALTRANS STANDARD SPECS 2010 EDITION OR LATEST EDITION

STANDARD DRAWINGS

- 1. STANDARD PLANS FOR PUBLIC WORKS CONSTRUCTION "SPPWC"
- (2015 EDITION).

 2. STANDARD PLANS, LOS ANGELES COUNTY DEPARTMENT OF PUBLIC WORKS (2000 EDITION).

 3. STANDARD PLANS, CALTRANS, LATEST EDITION.

awn By: G-002 SHEET 2 OF 20

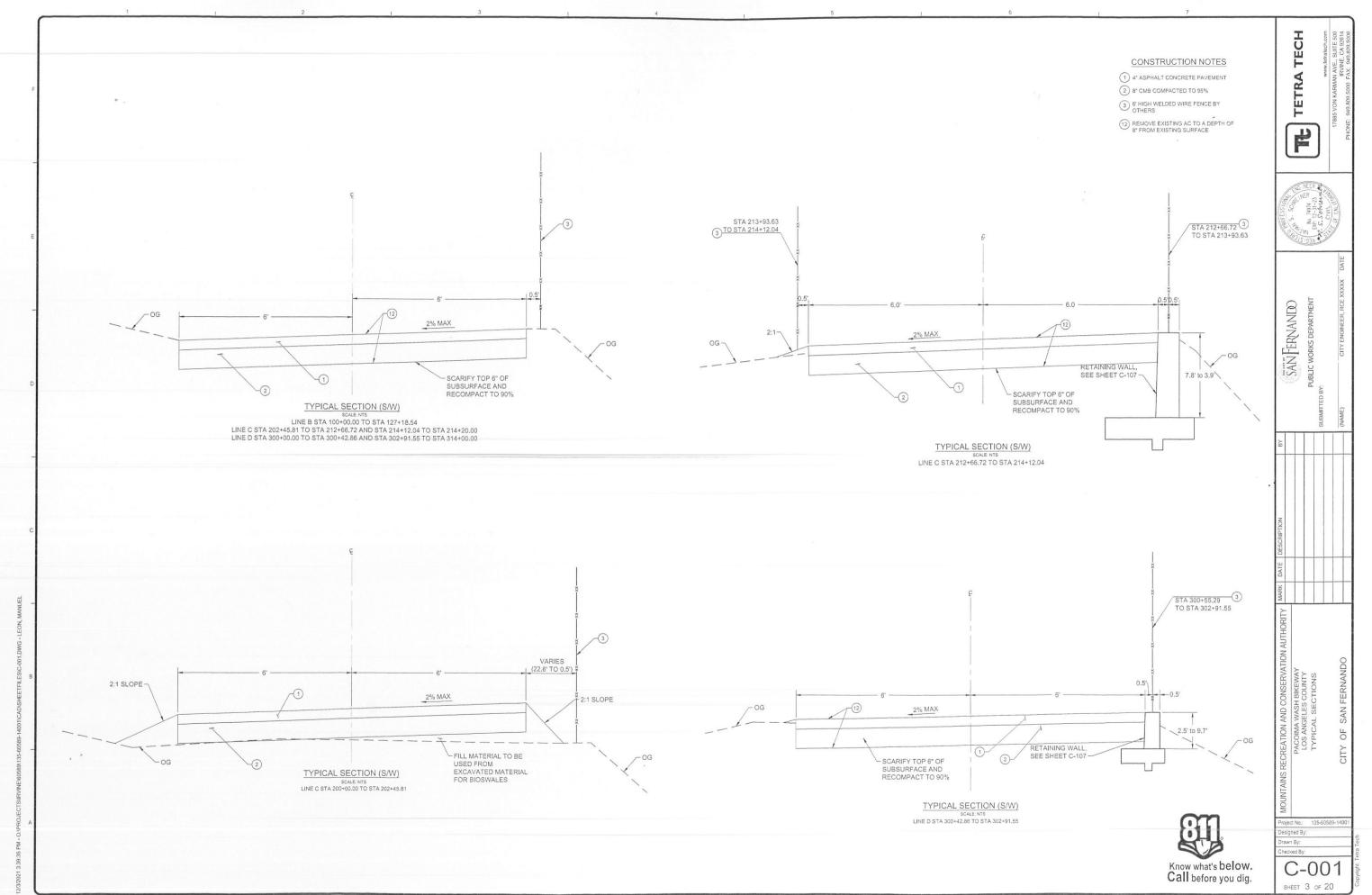
12/21

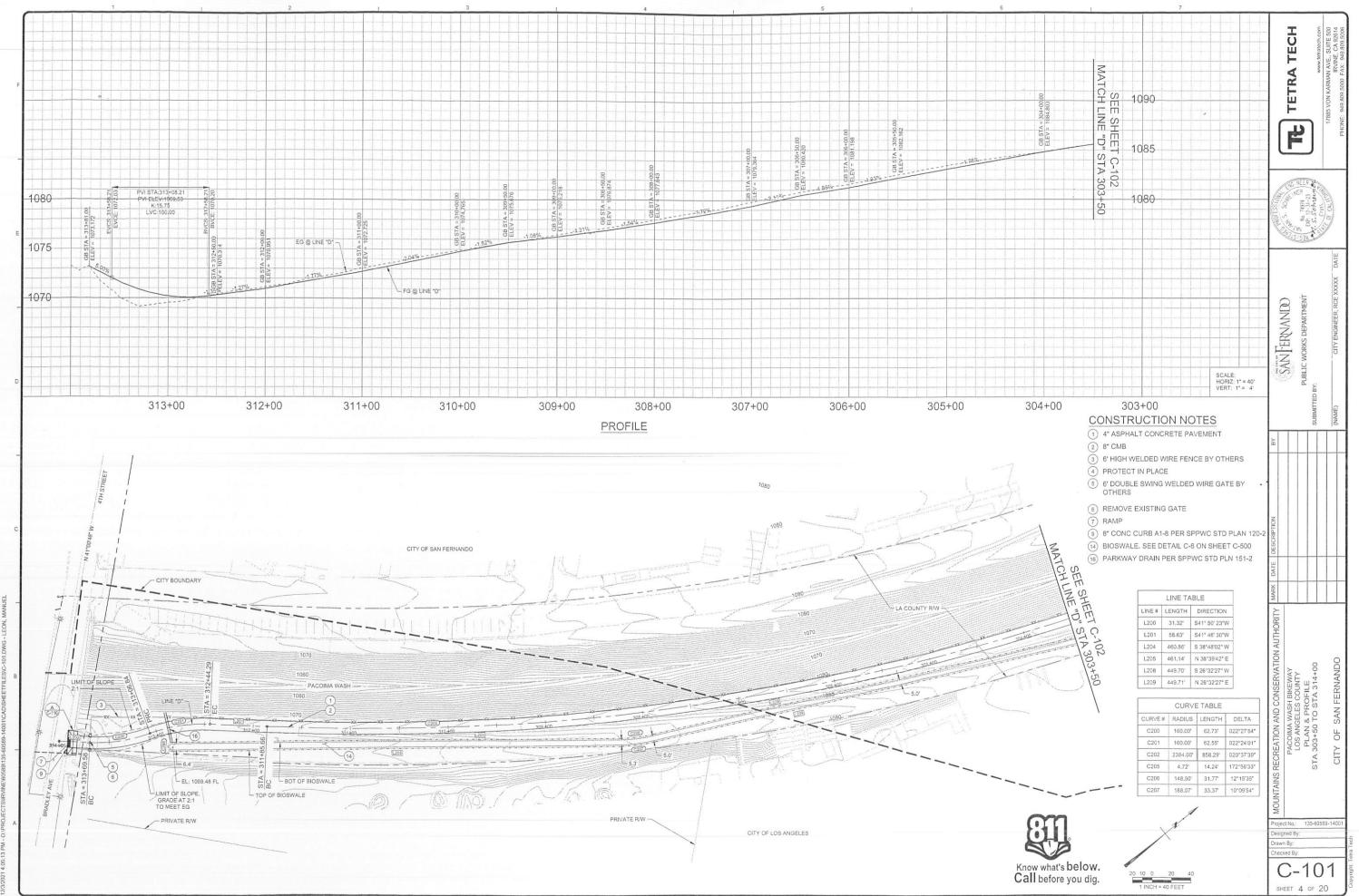
ECH ETRA



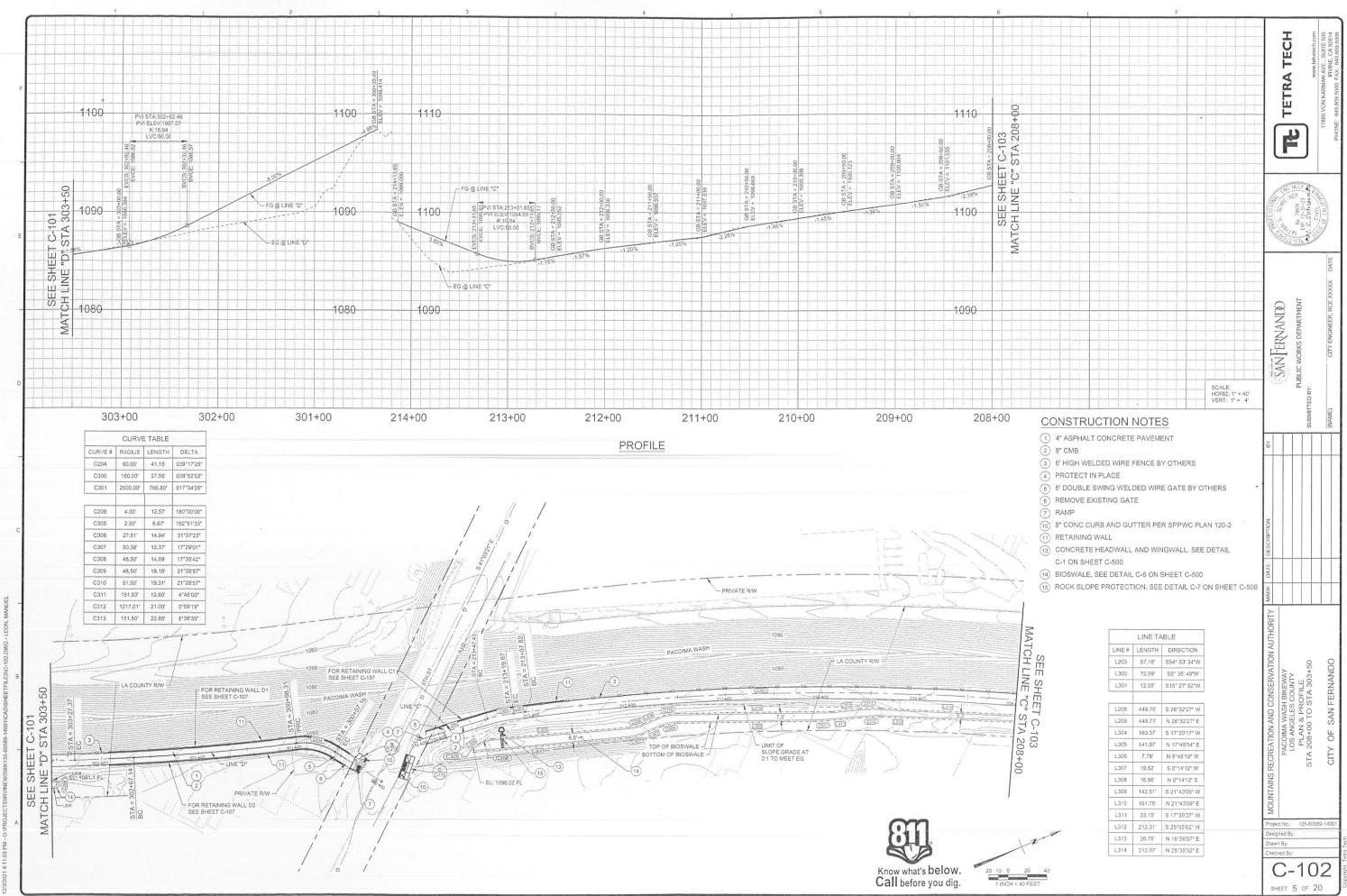


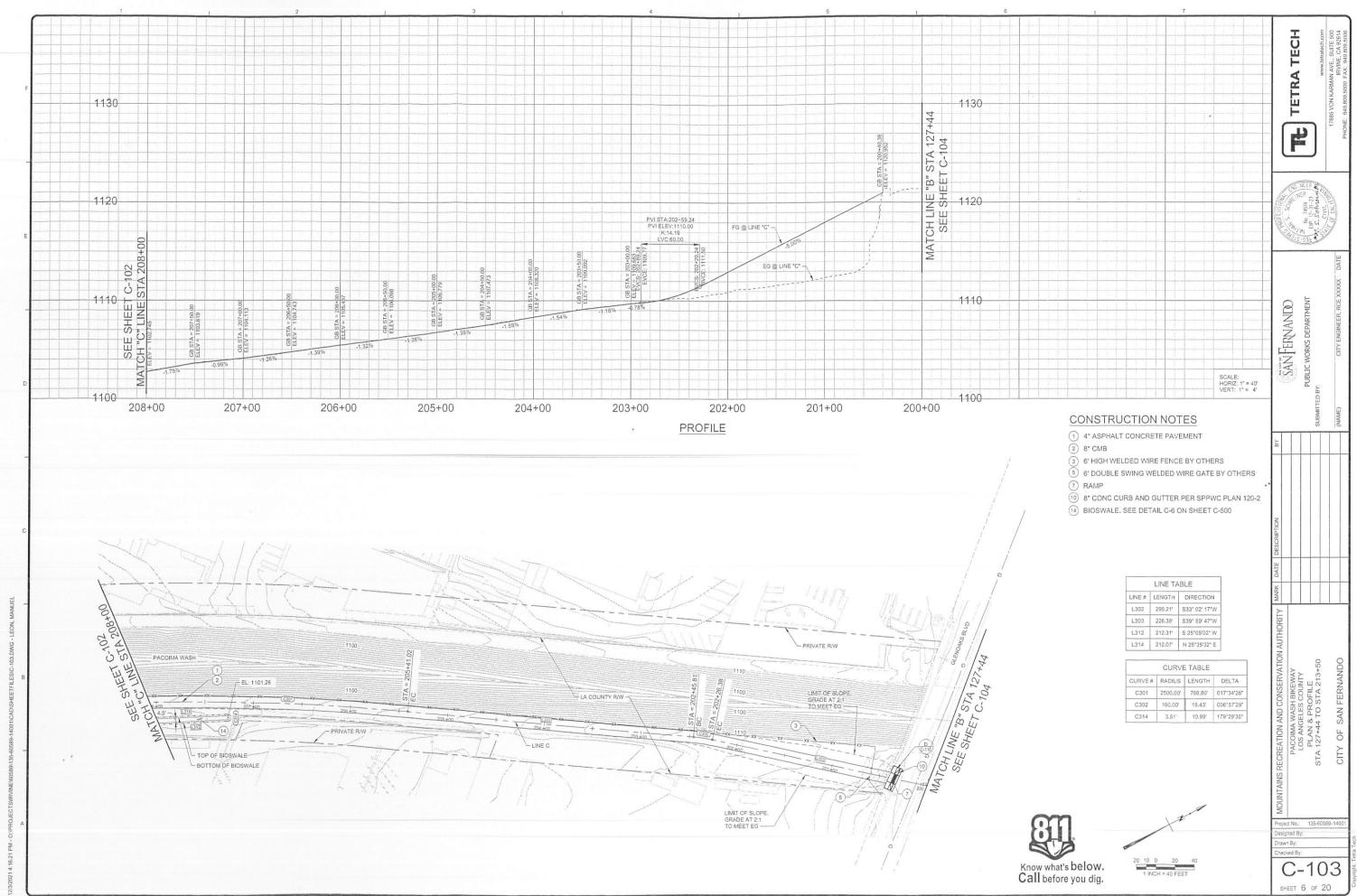
SANFERNANDO

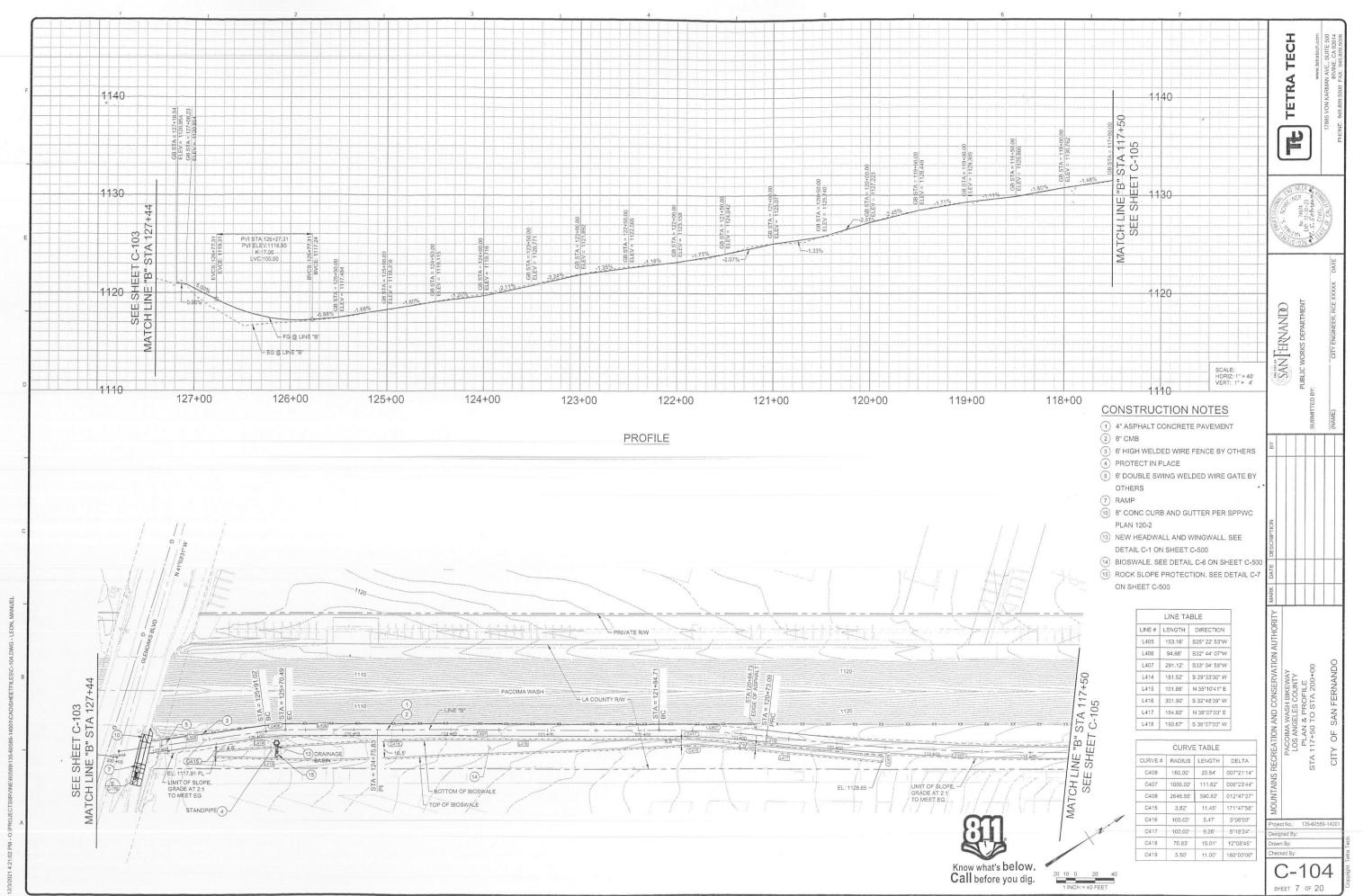


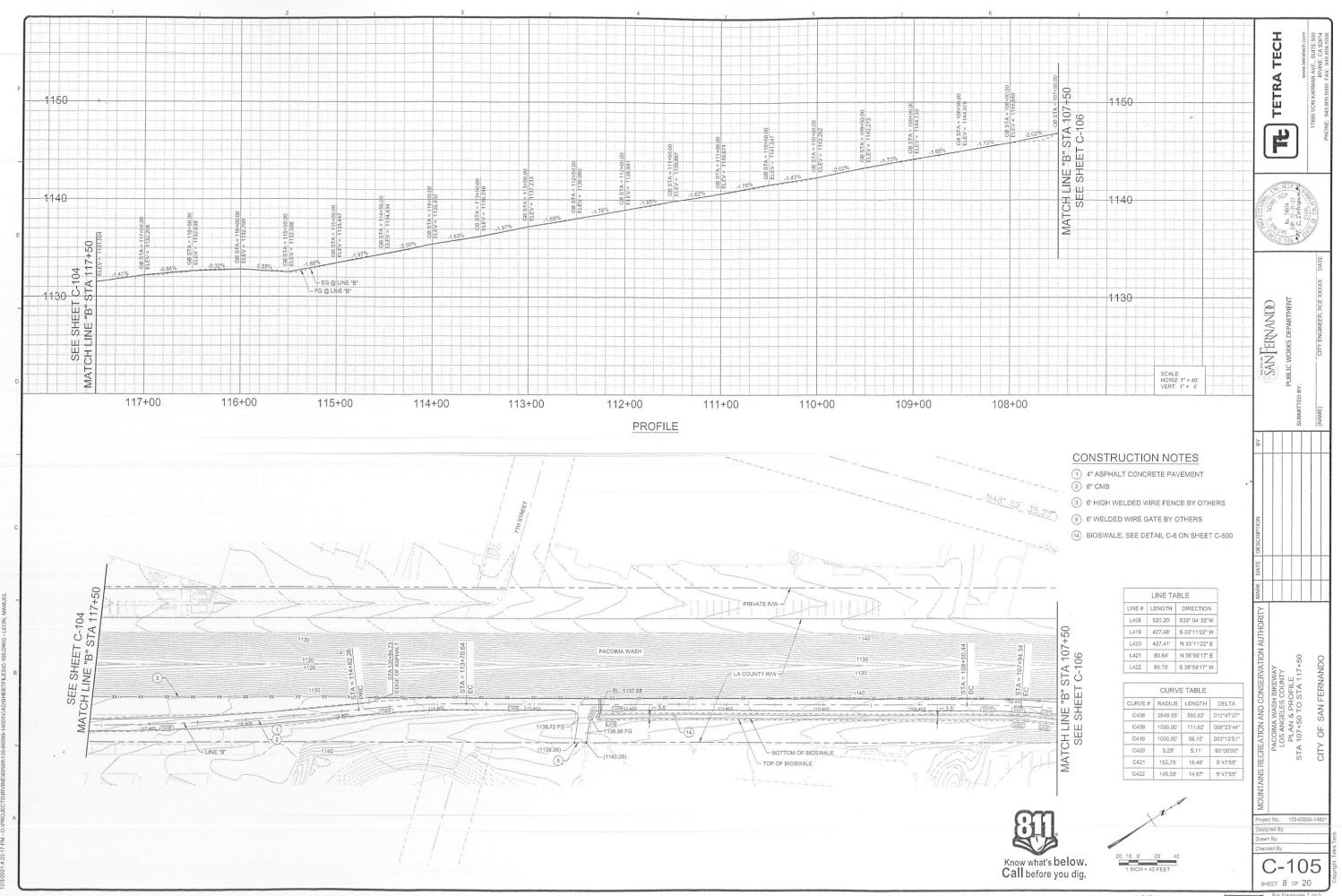


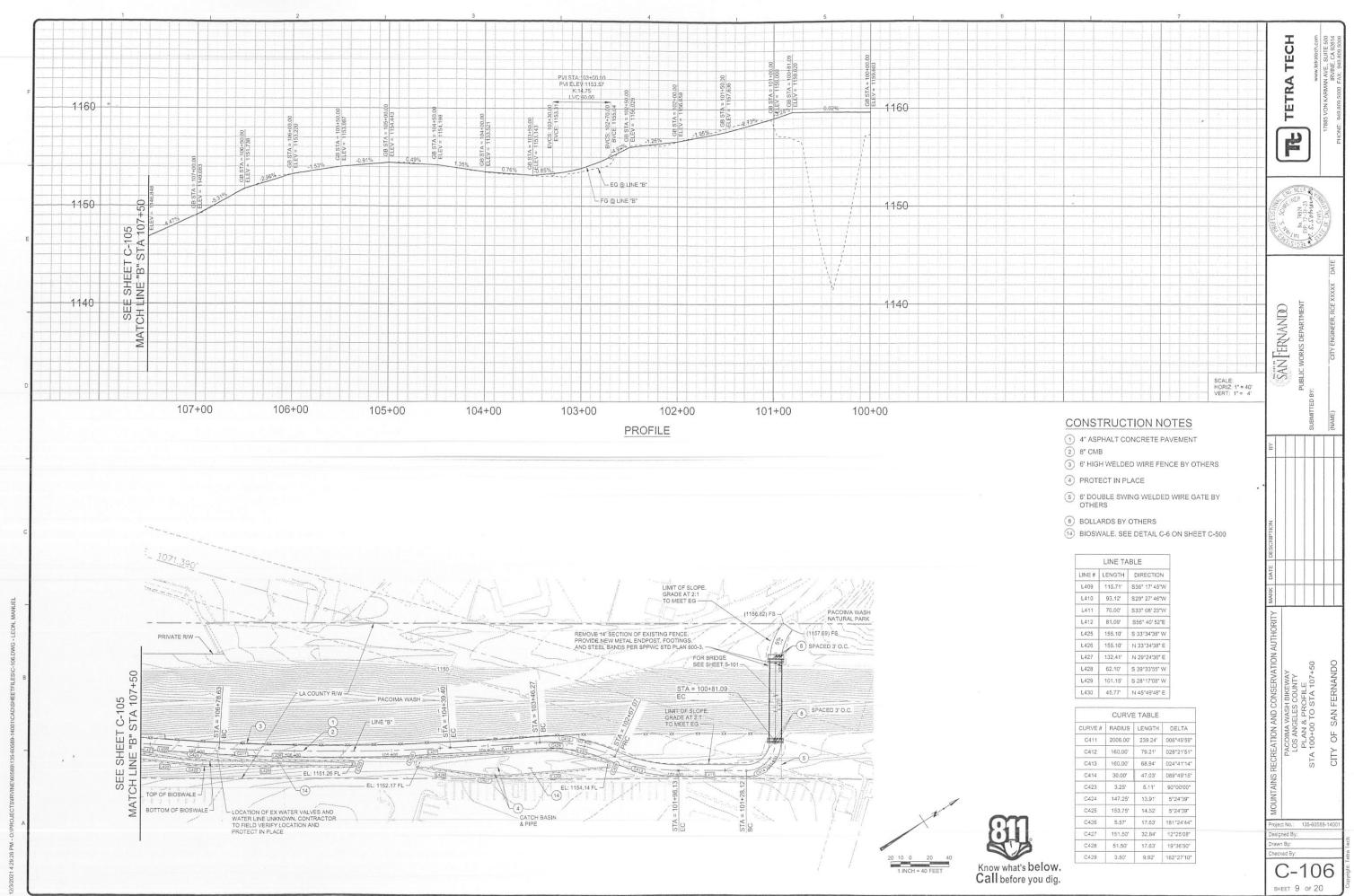
Bar Measures 1 in

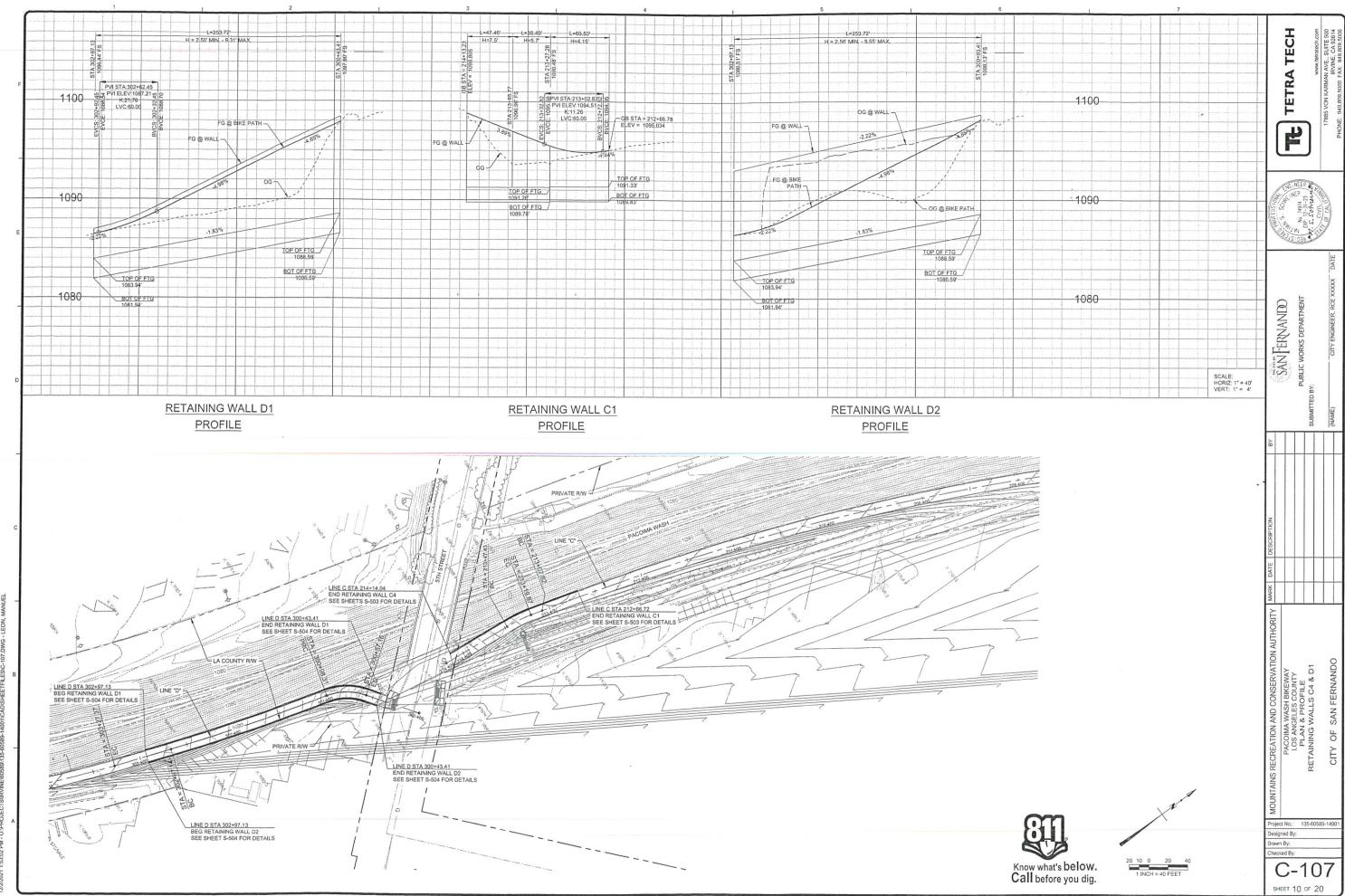




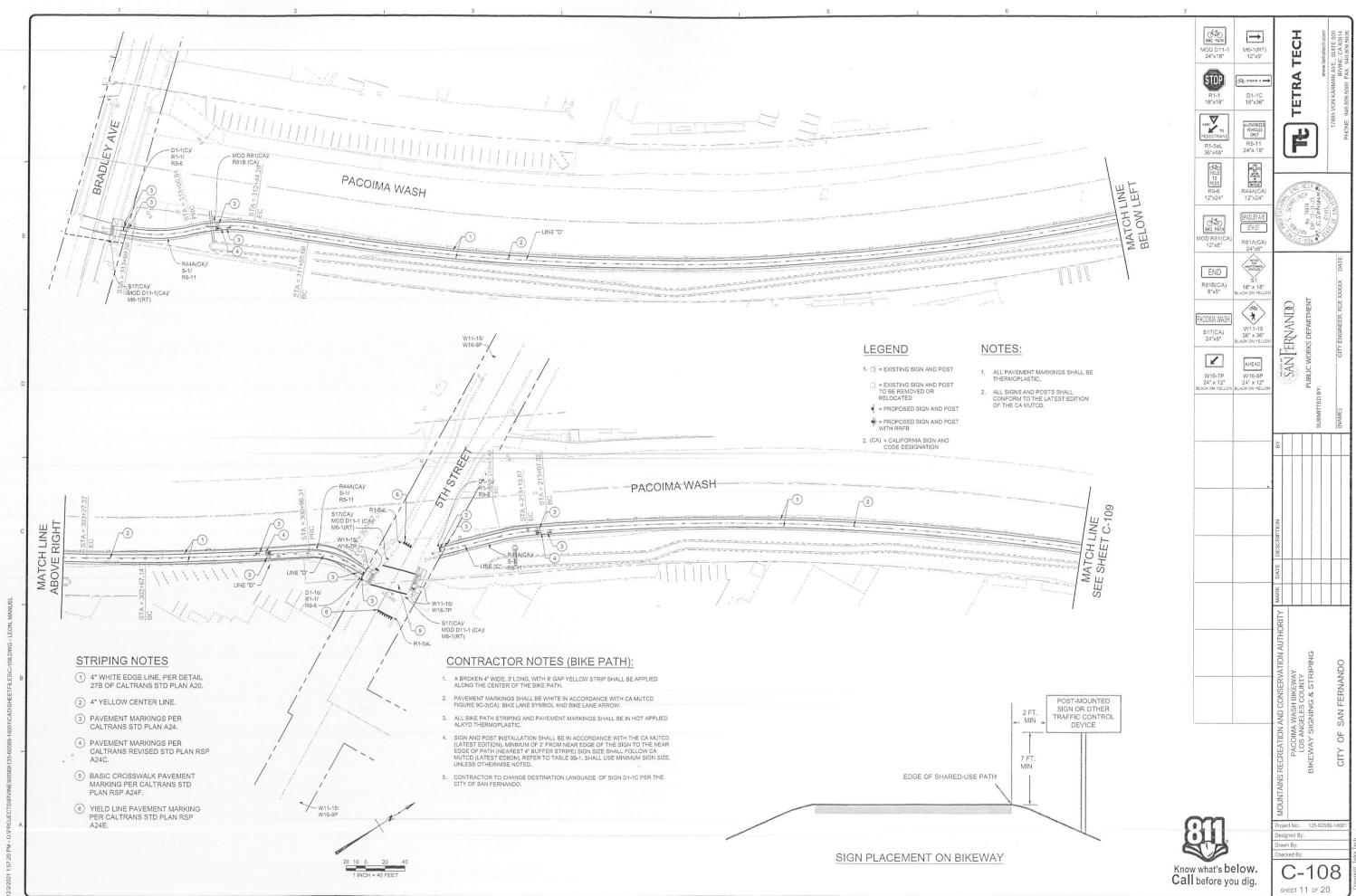




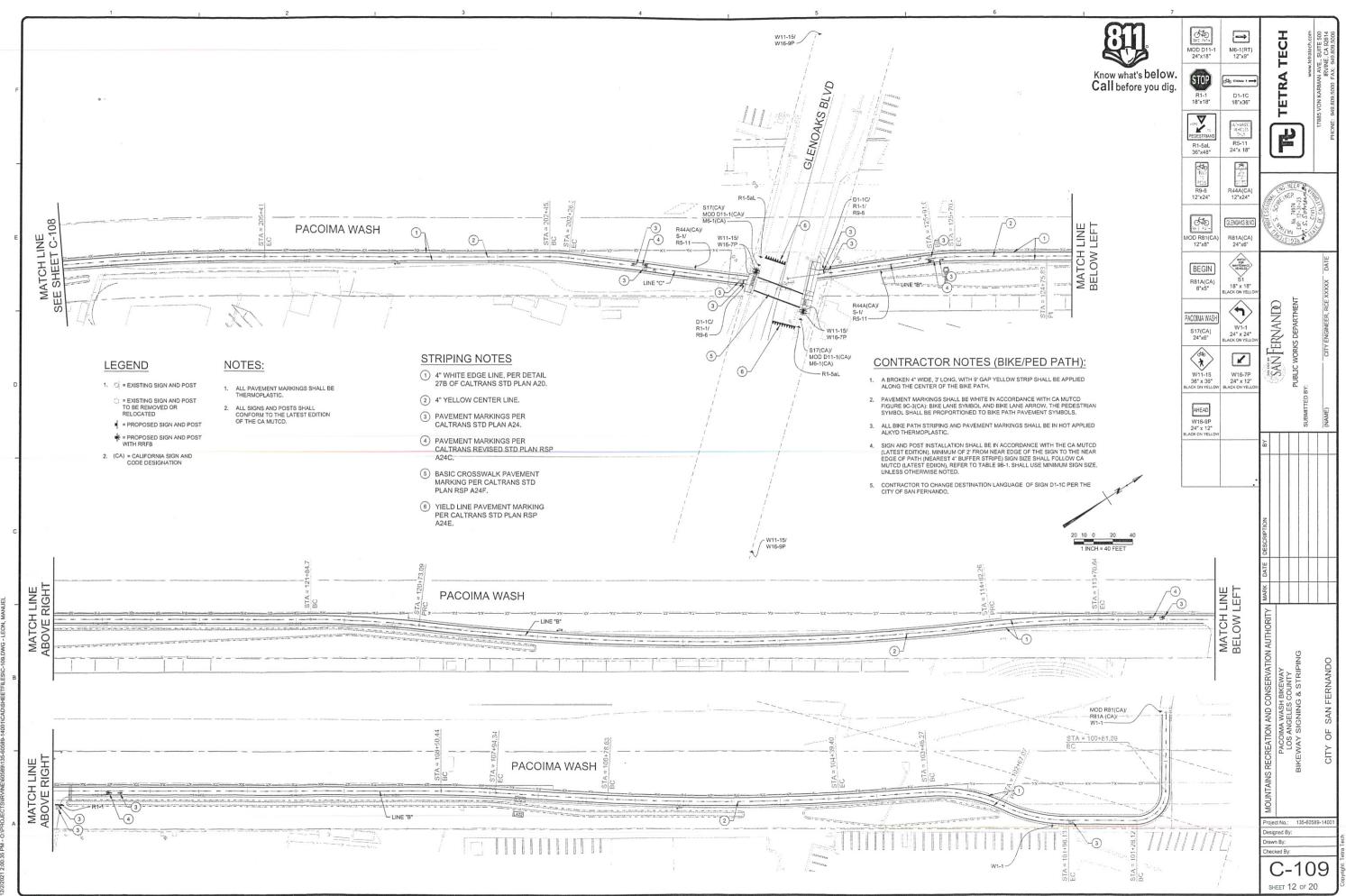


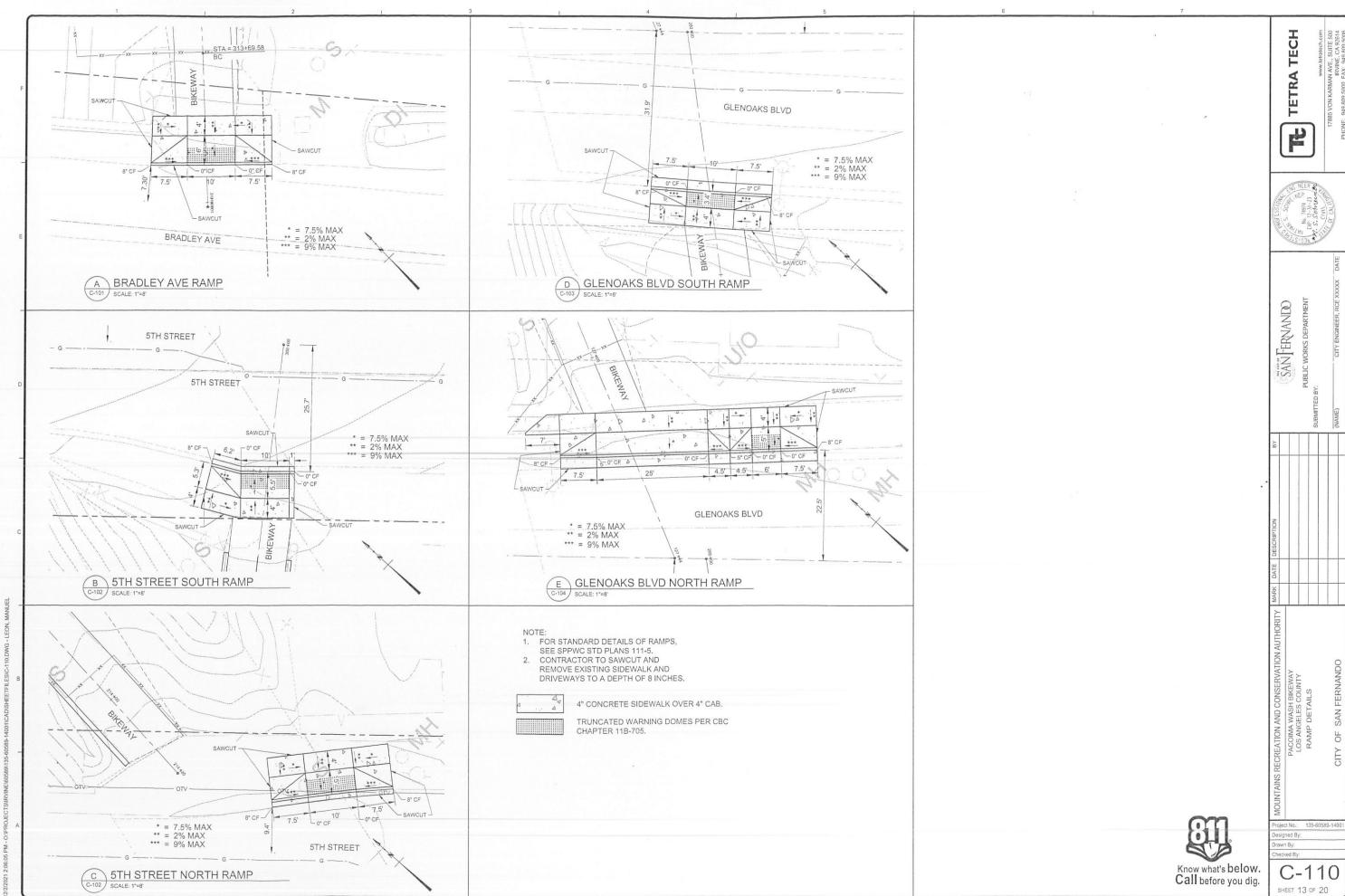


Bar Measures 1 in



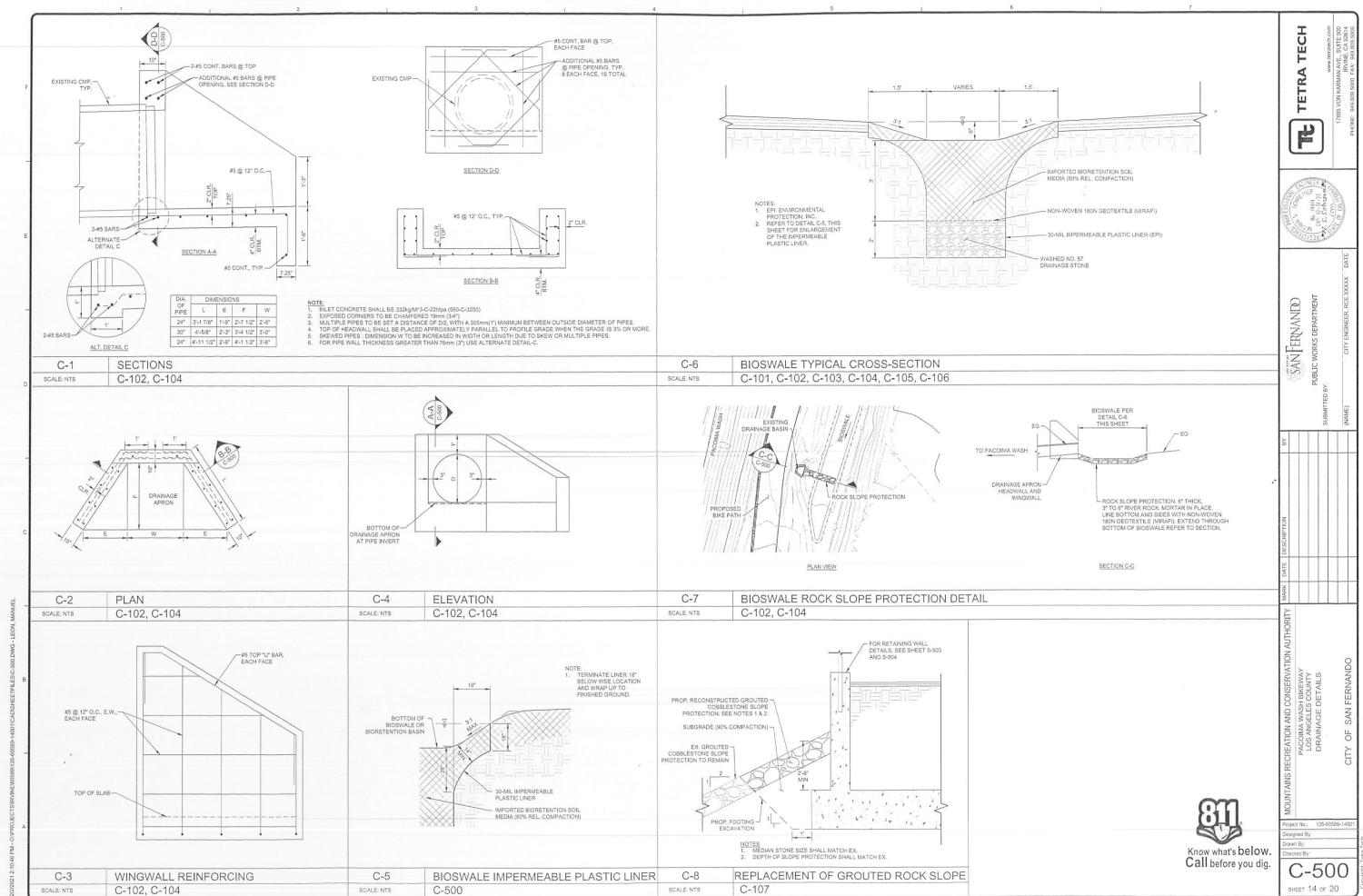
Bar Measures 1 inch





Bar Measures 1 in

Bar



- COUNTY OF LOS ANGELES BUILDING CODE (L.A.C.B.C.), BASED UPON THE 2012 EDITION OF THE INTERNATIONAL BUILDING CODE (I.B.C.).
- CONTRACTOR SHALL VERIFY ALL EXISTING CONDITIONS AND DIMENSIONS BEFORE STARTING WORK. SHOULD CONDITIONS EXIST WHICH ARE CONTRARY TO THOSE SHOWN ON PLANS, THE ENGINEER SHALL BE
- 4. UNLESS DETAILED, SPECIFIED, OR INDICATED OTHERWISE, CONSTRUCTION SHALL BE AS INDICATED IN THE APPLICABLE TYPICAL DETAILS AND THESE GENERAL NOTES. TYPICAL DETAILS ARE MEANT TO APPLY EVEN THOUGH NOT REFERENCED AT SPECIFIC LOCATIONS ON DRAWINGS WHERE THEY OCCUR.
- 5. THE CONTRACT DRAWINGS AND SPECIFICATIONS REPRESENT THE FINISHED STRUCTURE. THEY DO NOT INDICATE THE METHOD OF CONSTRUCTION, THE CONTRACTOR SHALL PROVIDE ALL MEASURES NECESSARY TO PROTECT THE CONTRACTOR SHALL PROVIDE ALL MEASURES NECESSARY 10 PROTECT NO. SUCH STRUCTURE, WORKERS AND PED ESTRIANS DURING CONSTRUCTION. SUCH MAN STRUCTURE, WORKERS AND PED ESTRIANS DURING CONSTRUCTION. SUCH SIT OF CONSTRUCTION FOR CONSTRUCTION FOR ACIDICAL SHORING MEASURES SHALL INCLUDE SULT OT OR SUPPORT TEMPORATY STRUCTURES, AND PARTIALLY COMPLETED WORK, EX. OSSERVATION SISTS OT THE STRUCTURES SITE BY THE ENGINEER SHALL NOT BE CONSIDERED AS INSPIRE TO THE
- 6. THE CONTRACTOR ACKNOWLEDGES RESPONSIBILITY FOR JOBSITE SAFETY AND ACKNOWLEDGES THAT THE ENGINEER WILL NOT HAVE SUCH RESPONSIBILITY, IF A LAWSUIT IS FILLED BY ONE OF THE CONTRACTOR'S OR SUBCONTRACTOR'S EMPLOYEES, OR ANY ONE ELSE, THE CONTRACTOR WINDENMIPY, DEFEND AND HOLD THE OWNER AND TETRA TECH, INC., THE PARENT AND SUBSIDIARY COMPANIES HARMLESS OF ANY AND ALL SUCH
- 7. DIMENSIONS SHALL TAKE PRECEDENCE OVER SCALES SHOWN ON DRAWINGS.
- CONTRACTOR SHALL VERIFY LOCATION OF ALL SITE UTILITIES PRIOR TO STARTING WORK, BOTH ABOVE GROUND AND BELOW GROUND, WHICH MAY BE IMPACTED BY THE WORK SHOWN ON THESE DRAWINGS, ANY CONFLICTS SHALL BE BROUGHT TO THE ATTENTION OF THE ENGINEER.
- ALL ITEMS SHOWN ON THESE PLANS ARE NEW UNLESS NOTED (E), EXIST. OR EXISTING.
- 11. SOIL PROPERTIES, ALLOWABLE DESIGN VALUES, GRADING AND COMPACTION REQUIREMENTS AS PER GEOTECHNICAL REPORT BY KTFAR, PROJECT 2015-09-001. DATED COTOBER 23, 2015. THIS REPORT SHALL BE CONSIDERED A PART OF THESE PLANS AND SHALL BE KEPT AT THE JOB SITE AT ALL TIMES. A COPY OF THIS REPORT IS AVAILABLE FOR REVIEW IN THE ENDINEERS OFFICE.
- 12, SEE CIVIL DRAWINGS FOR SIZE AND LOCATION OF ALL OPENINGS, PIPING, ETC.
- 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 COMPANIES, AGENTS, EMPLOYEES, CONSULTANTS AND REPRESENTATIVES FOR ANY AND ALL DAMAGET OF DERSONS OR PROPERTY OR MORONGFUL DEATH ANY AND ALL DAMAGE TO PERSONS OR PROPERTY OR WRONGFUL DEATH REGARDLESS OF WHETHER OR NOT SUCH CLAM, DAMAGE, LOSS OR EXPENSE IS CAUSED IN WHOLE OR IN PART BY THE NEGLIGENCE, ACTIVE OR PASSIVE, OF OWNER, ENGINEER, THEIR PARENT AND SUBSIDIARY 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, DEATH OR DAMAGES OCCURRING ACTIONS, OR LIABILITY FOR INJURIES, DEATH OR DAMAGES OCCURRING AFTER COMPETION OF THE PROJECT, AS WELL AS DURING THE WORKS PROGRESS, CONTRACTOR FURTHER AGREES THAT IT SHALL ACCOMPLISH THE AGOVE AT ITS OWN COST, EXPENSE AND RISK EXCLUSIVE OF AND REGARDLESS OF ANY APPLICABLE INSURANCE POLICY OR POSITION TAKEN BY ANY INSURANCE COMPANY REGARDING COVERAGE.
- 14.CONTRACTOR SHALL DEFEND, INDEMNIFY AND HÖLD THE CLIENT AND 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 DAMAGES, INCLUDING LEGAL COSTS AND ATTORNEYS FEES, RESULTING FROM INTERFERENCE WITH, INTERRUPTION OF, DAMAGE TO, OR ANY AND ALL INJURIES WHICH RESULT FROM DAMAGE CAUSED TO SUBSURFACE IN STALLATION, WHICH IS UNFORESEEN AND DESPITE ENGINEERS EFFORT DIRING THE PRESION PROCESS WAS NOT LOCATED. EXCEPTING ONLY THE DURING THE DESIGN PROCESS WAS NOT LOCATED, EXCEPTING ONLY THE GROSS NEGLIGENCE OR WILLFUL MISCONDUCT OF ENGINEER IN PROVIDING ITS SERVICES.

- . 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.
- 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 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
- 4. 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 PER DETAIL 2 ON DRAWING S-4. STAGGER ALL SPLICES.
- WELDING OF REINFORCING STEEL IN REINFORCED CONCRETE CONSTRUCTION IS NOT PERMITTED.
- 7. THE SPECIFIED DIMENSIONS OF THE VERTICAL LEGS OF "L" DOWELS, WHOSE HORIZONTAL LEGS ARE CAST INTO A FOOTING OR SLAS CAST ON TOP OF EARTH, ARE BASED UPON THE SLAS THICKNESS AS SHOWN ON THE DRAWINGS, IF A SLAB IS POURED THICKER THAN SHOWN ON THE DRAWINGS, SUCH AS FOR THE SUBGRADE OCCURRING AT A LOWER ELEVATION THAN SHOWN, THE VERTICAL LEGS MUST BE FASRICATED 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 ENIFORCING.
- 8. ANCHOR BOLTS SHALL BE PLACED IN A STEEL GROUT CONTAINER AS SHOWN

CONCRETE NOTES

- 1. BRIDGE CONCRETE SHALL HAVE A MINIMUM ULTIMATE COMPRESSIVE STRENGTH (rc) OF 4000 PSI AT 26 DAYS. RETAINING WALL CONCRETE SHALL HAVE A MINIMUM ULTIMATE COMPRESSIVE STRENGTH (rc) OF 5500 PSI AT 26 DAYS. REQUIRED AVERAGE COMPRESSIVE STRENGTH (rc) FOR MIX PROPORTIONING SHALL BE IN ACCORDANCE WITH ACI 318-11, CHAPTER 5. AGGREGATES SHALL CONFORM TO A.S.T.M. C33.
- CEMENT FOR CONCRETE SHALL BE TYPE II PORTLAND CEMENT CONFORMING TO A.S.T.M. C150, WITH A.S.T.M. C10 TABLE 2 OPTIONAL REQUIREMENTS.
- CONCRETE COVER FOR REINFORCING BARS SHALL BE: CAST AGAINST AND PERMANENTLY EXPOSED TO EARTH = 3* EXPOSED TO EARTH OR WEATHER = 2*
- 5. DRYPACK SHALL BE 1 PART CEMENT AND 3 PARTS SAND (BY VOLUME).
- NO PIPES OR DUCTS SHALL BE PLACED IN STRUCTURAL CONCRETE UNLESS SPECIFICALLY DETAILED.
- THE LOCATION OF ALL CONSTRUCTION JOINTS NOT SPECIFICALLY NOTED OR SHOWN SHALL BE APPROVED BY THE ENGINEER.
- 8. "ROUGHENED SURFACES", WHERE SPECIFIED ON THE DRAWINGS, SHALL BE MECHANICALLY ROUGHENED SUCH THAT A 14" AMPLITUDE (4) IS ACHIEVED BETWEEN HIGH AND LOW SPOTS OF THE ROUGHENED SURFACE. THE SURFACE SHALL BE CLEAN AND FREE OF LAITANCE
- 9. BOTH FACES OF CONCRETE WALLS, EDGES OF CONCRETE FOUNDATIONS, AND OTHER FORMED CONCRETE SUFFACES WHERE THE SPECIFIED CONCRETE COVER IS 2 INCHES, SHALL BE PLACED AGAINST FORMWORK WHICH COMPUES WITH ACI 347. CONCRETE FOR THESE ELEMENTS SHALL NOT BE CAST AGAINST EARTH.
- CONCRETE SUMP SHALL NOT EXCEED 3" WHEN TESTED IN ACCORDANCE WITH ASTM STANDARD NO. C143 FOR FOOTINGS, SLABS, BEAMS, AND GIRDERS. 3" FOR CAST-IN-PLACE WALLS AND COLUMNS.
- 11. ALL CONCRETE EDGES, CORNERS AND INTERSECTIONS SHALL BE TOOLED OR CHAMFERED NO LESS THAN $rac{1}{3}$ * WHETHER SHOWN OR NOT ON THE DRAWINGS.
- 12. NON-SHRINK GROUT OR DRY PACK, A PREMIXED NON-METALLIC FORMULA HAVING THE FOLLOWING CHARACTERISTICS: NO SHRINKAGE AFTER PLACEMENT OR EXPANSION AFTER SET (ASTM C-427), ONE DAY COMPRESSIVE STRENDTH OF AT LEAST 3000 PSI (ASTM C-109) AND INITIAL SET TIME OF NOT LESS THAN 45 MINUTES (ASTM C-111), MINIMUM FAT 70 AYS = 5000 PSI.

- STEEL FORE

 1. UNLESS OTHERWISE NOTED, ALL STRUCTURAL AND MISCELLANEOUS

 STEEL FOR BRIDGE AND ACCESS STAIRS SHALL BE UNPAINTED WEATHERING STEEL
 FABRICATE PORM A.S. TAM, A242 OP A.S. TAM. ASSES STEEL FOR PLATES AND

 STRUCTURAL SHAPES, AND A.S. TAM, A500 OR A.S. TAM, A847 FOR TUBULAR
 SECTIONS, MINIMUM YELD (FLY) SHALL BE GREATER THAN 50 KSL STRUCTURAL
 STEEL SHALL BE FABRICATED AND ERECTED IN ACCORDANCE WITH THE AISC
 SPECIFICATION FOR THE DESIGN. FABRICATION AND ERECTION OF STRUCTURAL
 STEEL FOR BUILDINGS, STRUCTURAL STEEL FABRICATION AND ERECTION SHALL
 STEEL FOR BUILDINGS, STRUCTURAL STEEL FABRICATION AND ERECTION SHALL
 STEEL FOR BUILDINGS. STRUCTURAL STEEL FABRICATION AND ERECTION SHALL
 STEEL FOR BUILDINGS. STRUCTURAL STEEL FABRICATION AND ERECTION SHALL
 SHEEL FOR BUILDINGS. STRUCTURAL STEEL FABRICATION AND STRUCTURAL
 STEEL FOR BUILDINGS. STRUCTURAL STEEL FABRICATION AND LSC. CERTIFIED SHOP,
 AT THE COMPLETION OF FABRICATION, THE APPROVED FABRICATOR SHALL SUBMIT
 A CERTIFICATE OF COMPLIANCE TO THE CITY BUILDING OFFICIAL (OR OWNER IF THE
 PROJECT IS NOT UNDER THE JURISDICTION OF A BUILDING DEPARTMENT)
 AND TO THE ENSINEER STATINGS THAT THE WORK WAS PERFORMED IN ACCORDANCE AND TO THE ENGINEER STATING THAT THE WORK WAS PERFORMED IN ACCORDANCE WITH THE CONTRACT DOCUMENTS.
- ALL HANDRAIL SHALL BE STEEL PIPE CONFORMING TO A.S.T.M. A53, GRADE B. HANDRAIL SHALL BE HOT-DIP GALVANIZED IN ACCORDANCE WITH ASTM A123 OR A153, AS APPLICABLE, REPAIR OF DAMAGED GALVANIZED COATING SHALL BE IN ACCORDANCE WITH ASTM A780.
- UNLESS NOTED OTHERWISE, BOLTS FOR WEATHERING STEEL CONNECTIONS SHALL CONFORM TO A.S.T.M. A325, TYPE 3. HEX NUTS FOR WEATHERING STEEL SHALL CONFORM TO ASTM A563 GRADE C3 OR DH3.
- 5. UNLESS NOTED OTHERWISE, STEEL ANCHOR BOLTS CAST IN NEW CONCRETE SHALL CONFORM TO ASTM F1554, GRADE 55, AND SHALL BE HOT-DIPPED GALVANIZED IN ACCORDANCE WITH ASTM A153, CARBON STEEL NUTS SHALL CONFORM TO ASTM ASS, GABLE PIN.
- 6. HOLES FOR BOLTS IN STEEL SHALL BE OF SAME DIAMETER AS BOLT +1/16*
- 7. ALL WELDING SHALL BE SHIELDED ARC TYPE AND SHALL BE PERFORMED BY A CERTIFIED WELDER. WELDING SHALL BE PERFORMED IN A FABRICATION SHOP REGISTERED AND APPROVED IN ACCORDANCE WITH NOTE 1 ABOVE, OR WELDING SHALL BE INSPECTED IN ACCORDANCE WITH AWS D.1.1. CONTINUOUS INSPECTION IS REQUIRED OF ALL FIELD WELDING IN ACCORDANCE WITH AWS D.1.3.
- NO STRUCTURAL STEEL MEMBER SHALL BE CUT FOR PIPES, DUCTS, ETC. UNLESS SPECIFICALLY DETAILED AND APPROVED BY STRUCTURAL ENGINEER.
- WHERE SPECIFIED, USE OF HIGH-STRENGTH BOLTS SHALL CONFORM TO THE PROVISIONS OF THE "SPECIFICATION FOR STRUCTURAL JOINTS USING HIGH STRENGTH BOLTS "APPROVED BY THE RESEARCH COUNCIL ON STRUCTURAL CONNECTIONS OF THE ENGINEERING FOUNDATION (RCSC). SPECIAL INSPECTION OF HIGH-STRENGTH BOLT CONNECTIONS IS REQUIRED.

- LOCATION OF TEST HOLES AND LOGS THEREOF ARE SHOWN IN THE GEOTECHNICAL REPORT BY RTF&A, PROJECT 2015-009-001, DATED OCTOBER 23, 2015. THE SOILS REPORT AND ITS REQUIREMENTS SHALL BE CONSIDERED A PART OF THESE PLANS.
- 2. FOOTINGS ARE DESIGNED FOR A MAXIMUM ALLOWABLE SOIL BEARING PRESSURE OF 3000 PSF FOR TOTAL OF ALL DEAD PLUS DESIGN LIVE LOADS. REFER TO THE PROJECT GEOTECHNICAL REPORT FOR OTHER ALLOWABLE SOIL BEARING VALUES.
- THE SOILS ENGINEER SHALL REVIEW ALL SITE WORK AND FOOTING EXCAVATIONS BEFORE ANY CONCRETE IS CAST.
 THE SOILS ENGINEER SHALL REVIEW ALL BACKFILL MATERIALS PRIOR TO PLACEMENT AND OBSERVE BACKFILL OPERATIONS.
- 5. FOOTINGS SHALL BE NOT LESS THAN 24" BELOW FINISH GRADE
- FOOTINGS MAY BE PLACED IN NEAT EXCAVATION WHERE POSSIBLE, PROVIDED AN EXTRA 1" WIDTH OF FOOTING IS PROVIDED ON EACH SIDE AND WRITTEN APPROVAL IS GIVEN BY THE ENGINEER.
- 7. ALL FOOTING EXCAVATIONS SHALL BE HAND CLEANED PRIOR TO PLACING CONCRETE

DESIGN CODES AND REFERENCES:
COUNTY OF LOS ANGELES BUILDING CODE, 2014 EDITION
ASCE 7-10 MINIMUM DESIGN LOADS FOR CUILDINGS AND OTHER STRUCTURES
AISC MANUAL OF STEEL CONSTRUCTION, 14TH EDITION
ACI 316-11 BUILDING CODE REQUIREMENTS FOR STRUCTURAL CONCRETE
AASHTO LRFD BRIDGE DESIGNS SPECIFICATIONS, 7TH EDITION
AASHTO LRFD BRIDGE DESIGNS SPECIFICATIONS FOR CONNECTION DETAILS
2016 CALIFORNIA BUILDING CODE

LIVE LOADING: 90 PSF PEDESTRIAN LOAD AND H10 MAINTENANCE VEHICLE LOADING H10 MAINTENANCE LOADING

RISK CATEGORY = II
IMPORTANCE FACTOR, I = 1,00
SITE CLASS = D
SEISMIC DESIGN CATEGORY = D
SEISMIC GROUND MOTION VALUES PER GEOTECH:

LETAL EARTH PRESSURE:

ACTIVE (LEVEL BACKFILL) = 39 PSFFT (DRAINED)

ACTIVE (LEVEL BACKFILL) = 81 PSFFT (UNDRAINED)

SEISMIC SOIL LOAD = 39 PSFFT (UNDRAINED)

PEDESTRIAN LIVE LOAD = 29 PSFFT (UNFORM)

PEDESTRIAN LIVE LOAD = 29 PSFFT (UNFORM)

PASSIVE (LEVEL BACKFILL) = 25 PSFFT (250 PCF MAX. @ 10-0")

MATERIAL PROPERTIES:
REINFORCED CONCRETE: fc = 4000 PSI MIN AT 28 DAYS
REINFORCING STEEL: ASTM 4-615, GRADE 60, Fy = 60 KSI
STRUCTURAL STEEL: Fy = 36 KSI
Fy = 46 KSI (HSS TUBES)
Fy = 50 KSI (W SHAPES)

BRIDGE DESIGN VALUES: ASSUMED BRIDGE DESIGN WEIGHT = 30,240 LBS (TOTAL SUPERSTRUCTURE WEIGHT w/ DECKING IN PLACE)

ANCHOR BOLTS: ASTM F1554, GRADE 36, Fy = 36 KSI

SPECIAL INSPECTION REQUIRED:

SPECIAL INSPECTIONS REQUIRED FOR THIS PROJEC SHALL BE PERFORMED IN ACCORDANCE WITH C.B.C. CHAPTER 17.

FOUNDATIONS:
 A. VISUAL EXAMINATION & APPROVAL OF ALL FOUNDATION EXCAVATIONS
 CONCRETE:
 A. CASTIN-PLACE CONCRETE

EINFORCING STEEL:

A. PLACING OF REINFORCING FOR ALL CONCRETE REQUIRING SPECIAL INSPECTION

STRUCTURAL OBSERVATION:

STRUCTURAL OBSERVATION AS REQUIRED BY C.B.C. CHAPTER 17, AND AS DEFINED BY C.B.C SECTION 1702. STRUCTURAL OBSERVATIONS SHALL BE PROVIDED DURING THE STAGES OF CONSTRUCTION LISTED BELOW

- CONCRETE
 REINFORCING STEEL AND EMBEDED STRUCTURAL ANCHORAGES PRIOR TO PLACEMENT OF CONCRETE FOR THE FOLLOWING:
 A. FOUNDATIONS
 B. RETAINING WALLS
 C. BRIDGE ABUTMENT FOUNDATIONS

DEFERRED SUBMITTALS/CERTIFICATIONS:

- 1. OFF-SITE FABRICATION:
 FABRICATORS SHALL BE CITY, COUNTY ANDIOR C.B.C APPROVED FABRICATORS. FABRICATORS
 FOR ALL OFFSITE FABRICATION OF THE ITEMS LISTING BELOW.
 A. STRUCTURAL STEEL (MILL REPORTS AND IDENTIFICATION OF STEEL, AFFIDAVIT OF COMPLIANCE)

- SHALL NOT BE INSTALLED UNTIL THEIR DESIGN AND SUBMITTAL DOCUMENTS HAVE BEEN APPROVED BY

- HE BUILDING OFFICIAL.
 A. CONCRETE MIX DESIGN
 B. REINFORCING STEEL
 C. DOWELS
 D. GROUT MIX
 E. ADDITIVE MIXTURES
 F. SHORING METHODS
 G. JOINT SEALS
 F. PRE-ENGINEERING ALUMINUM PEDESTRIAN BRIDGE

- 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 DYNAMIC FORCED FROM VIBRATOR COMPACTOR.
- 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.
- 4. NO EQUIPMENT IN EXCESS OF H-20 HIGHWAY LOADING WILL BE PERMITTED TO OPERATE ON THE INVERT OF THE CHANNEL. ONLY RUBBERTRIED, LEGALLY LOADED EQUIPMENT SHALL BE OPERATED ON THE EXPOSED CHANNEL INVERT. IF STEEL CRAWLER TYPE EQUIPMENT IS USED, WOODEN MATTING SHALL BE PROVIDED OVER THE INVERT IN THE OPERATING AREA.

STRUCTURAL ABBREVIATIONS

AB	ANCHOR BOLT	HORIZ(H)	
AFF	ABOVE FINISH FLOOR	HSB	HIGH STRENGTH BOLT
ARCH	ARCHITECTURAL	INT	INTERIOR
L	ANGLE	JST	JOIST
BLDG	BUILDING	JT	JOINT
BLKG	BLOCKING	MAX	MAXIMUM
ВМ	BEAM	MB	MACHINE BOLTS
BOT(B)	BOTTOM	MIN	MINIMUM
BOF	BOTTOM OF FOOTING	MAS	MASONRY
BOW	BOTTOM OF WALL	MFR	MANUFACTURER
CTR	CENTER	MO	MASONRY OPENING
CJ	CONTROL JOINT	MECH	MECHANICAL
CMU	CONCRETE MASONRY UNIT	(N)	NEW
CTSK	COUNTERSINK	NS	NEAR SIDE
CLR	CLEAR	NTS	NOT TO SCALE
CONT	CONTINUOUS	OC	ON CENTER
COL	COLUMN	, OPNG	OPENING
CONC	CONCRETE	OSB	ORIENTED STRAND BOARD
CONN	CONNECTION	PL	PLATE
CONSTR	CONSTRUCTION	PLYWD	PLYWOOD
DIA.	DIAMETER	PT	PRESSURE TREATED
DO	DITTO	REINE	REINFORCEMENT
DWL	DOWEL	REO'D	REQUIRED
EXIST(E)	EXISTING	SHTG	SHEATHING
EXP BT	EXPANSION BOLT	STD	STANDARD
EL	ELEVATION (DATUM)	STIFF	STIFFENER
ELEV	ELEVATION (VIEW)	STL	STEEL
EN	EDGE NAILING	SYM	SYMMETRICAL
ES	EACH SIDE	T&B	TOP & BOTTOM
EA	EACH	TOC	TOP OF CONCRETE
EW	EACH WAY	TOP	TOP OF PLYWOOD
EXT	EXTERIOR	TOS	TOP OF STEEL
FIN	FINISH	TOW	TOP OF WALL
FLR	FLOOR	TOF	TOP OF FOOTING
FOUND	FOUNDATION	TYP	TYPICAL
FOS	FACE OF STUD	VERT(V)	VERTICAL
FS	FINISHED SURFACE	V.I.F.	VERTICAL VERIFY IN FIELD
FTG	FOOTING	V.I.F.	UNLESS NOTED OTHERWISE
GALV	GALVANIZED	WWF	WELDED WIRE FABRIC
GLB	GLUE-LAM BEAM	VVVVI-	WELDED WIRE FABRIC

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

TECH

TETRA







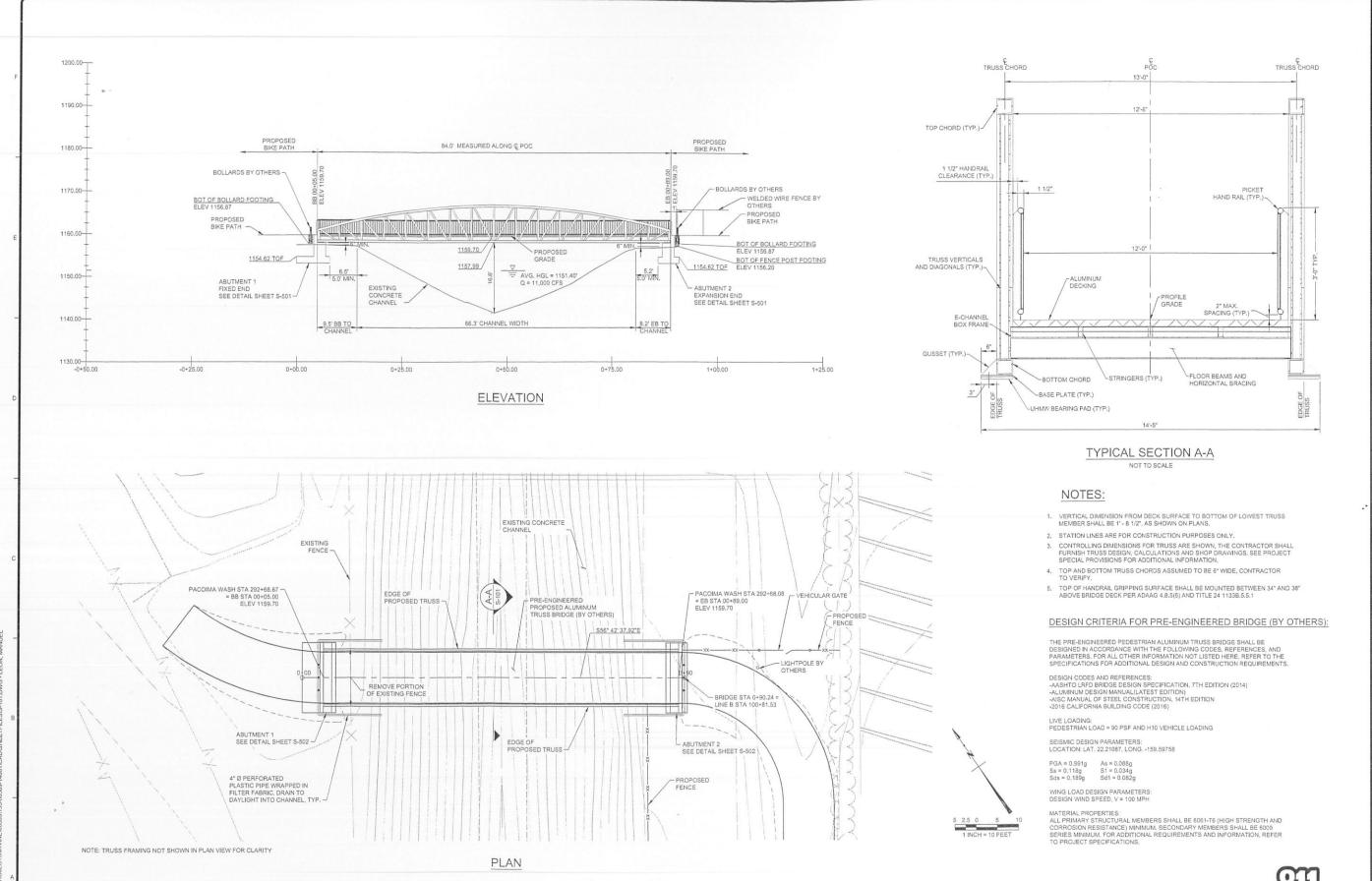
SANFERNANDO

roject No.: 135-60589-140 signed By:

ecked By: S-001

rawn By:

SHEET 15 OF 20



Know what's below. Call before you dig.

S-101 ou dig. SHEET 16 OF 20

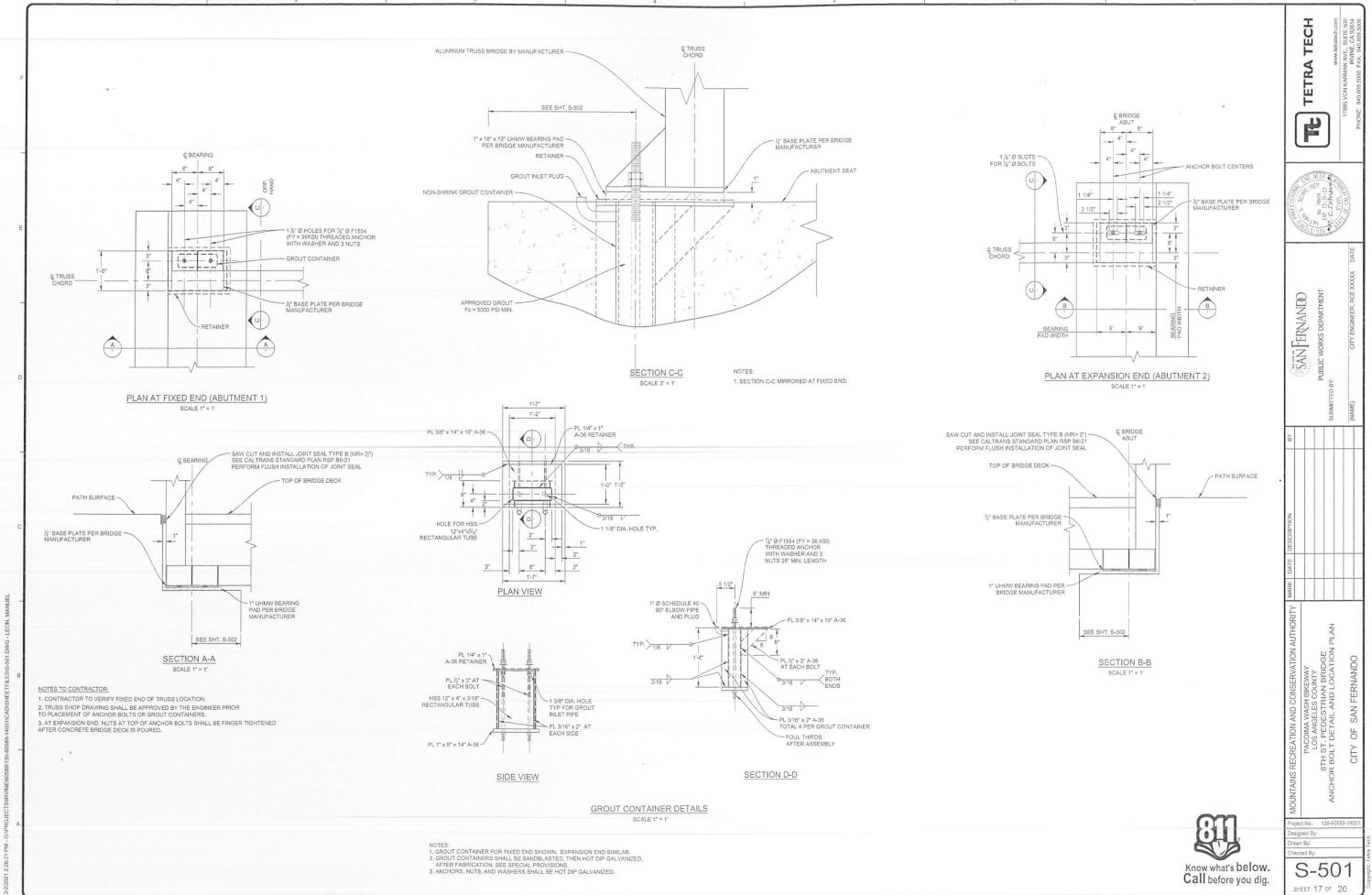
TECH

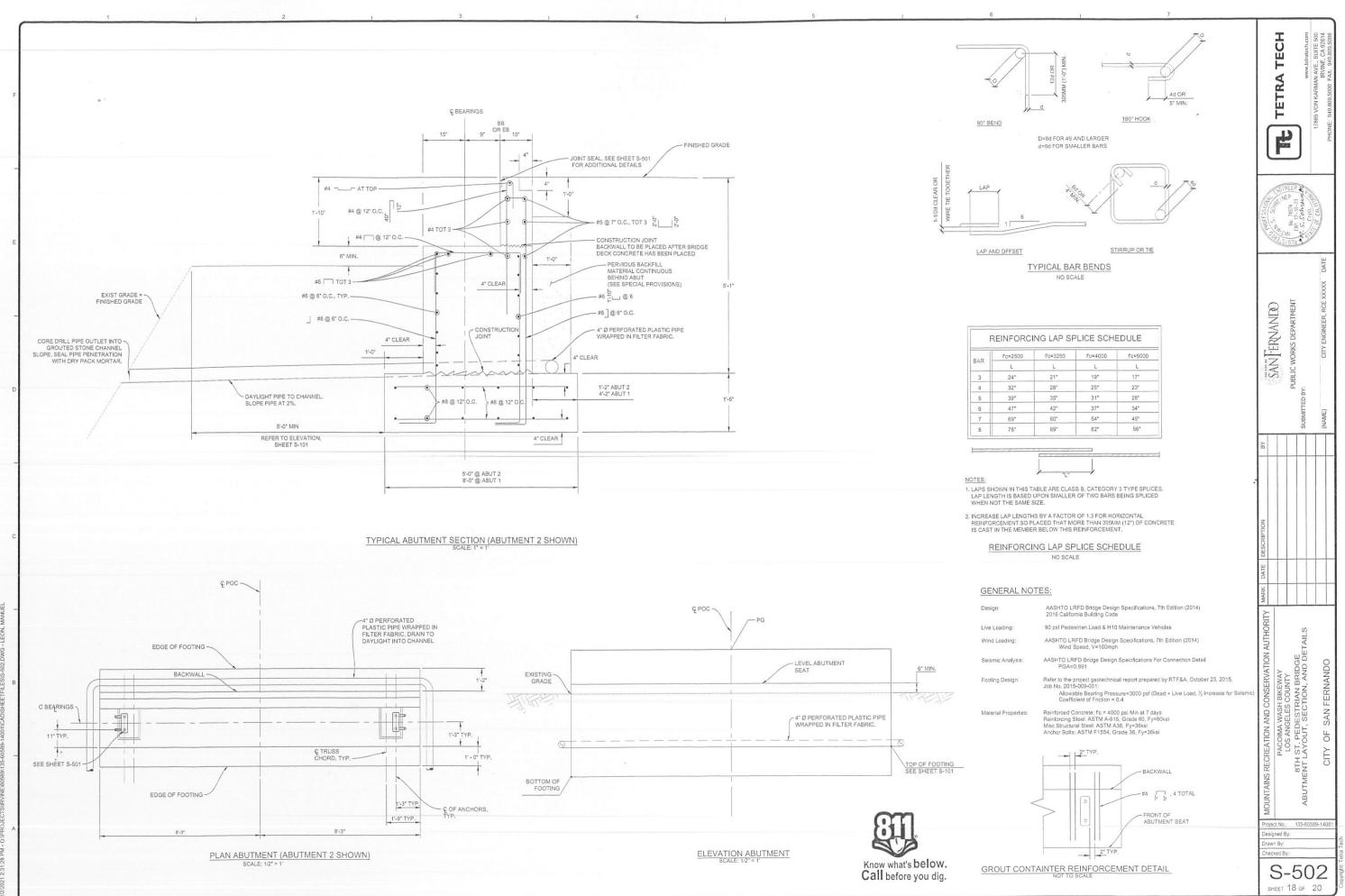
ETRA

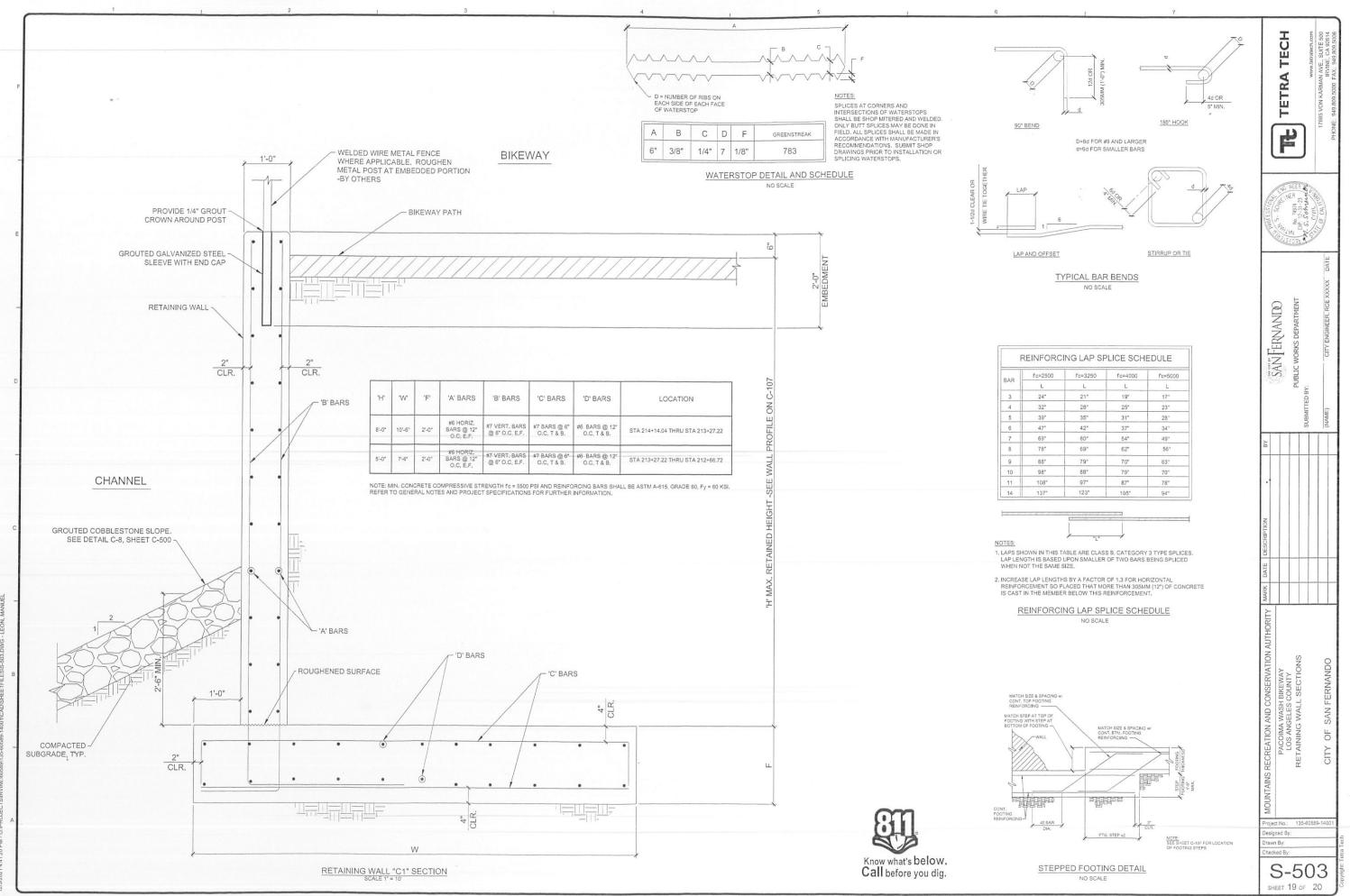
P

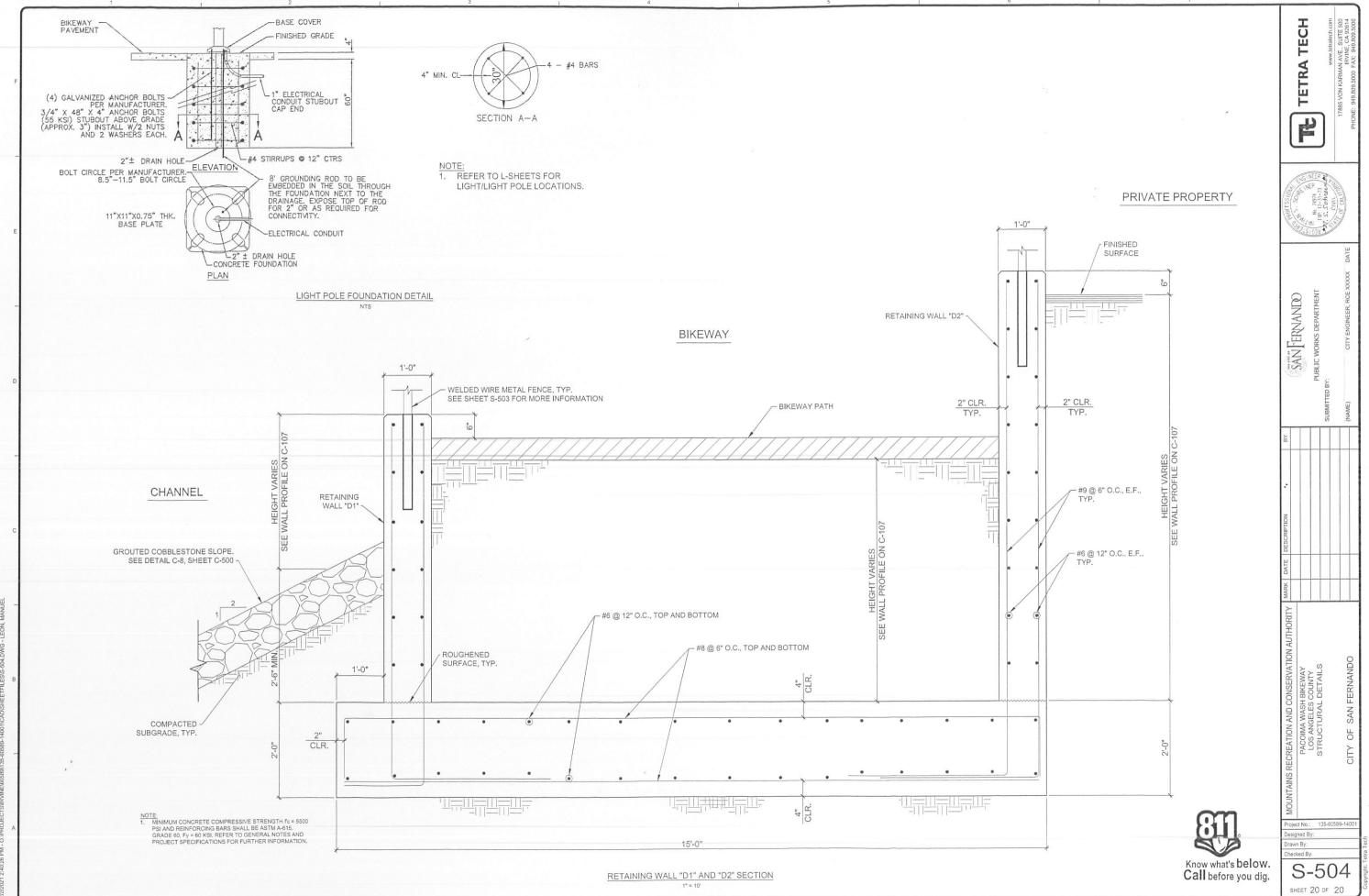
SANFERNANDO

roject No.: 135-60589-140









CONSTRUCTION NOTES

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.

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

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.

REFERENCE NOTES SCHEDULE

	AMENITIES								
SYMBOL	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	FINISH	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

www.mlagreen.com

Project Team:
TETRA TECH
17885 Von Karman, Ste. 500
Irvine, CA 92614
tel: 949 809-5209
fax: 949.809-5010
email: Joe.conroy@tetratech.co

REVISIO

ING. AS AN INSTRUMENT OF SERVICE IS THE PROPERTY.

WHITTEN INVENDMENT SHALL HAVE PERCEIPING OHE SCALE DIMENSION.

CONTROLLED SHALL HE WAS AN ELECTRON AND HE LANGUAGE. AND HE LANGUAGE.

AROUTED IS 10 ME POTRIBLED OF ANY WASHINGS FROM THE EMBROADER.

AROUTED IS 10 ME POTRIBLED OF ANY WASHINGS FROM THE EMBROADER.

ON THE STATE OF THE CONTRACTOR SECOND CONTROL AND LOCATION.

BESTINGSHEET OF THE CONTRACTOR SECOND CONTROL WORK IT TO BETTEN

THE EMERIT LOCATION OF ALL EMBROADERS AND CONTROL WORK IT TO BETTEN

CONTRACTOR ONLY, SET RECONDANCE FOR SECOND CALL THROWS ONE

CONTRACTOR ONLY, SET RECONDANCE FOR SECOND CALL THROWS ONE

CONTRACTOR ONLY, SET RECONDANCE FOR SECOND CALL THROWS ONE

CONTRACTOR ONLY, SET RECONDANCE FOR SECOND CALL THROWS ONE

CONTRACTOR ONLY, SET RECONDANCE FOR SECOND CALL THROWS ONE

CONTRACTOR ONLY, SET RECONDANCE FOR SECOND CALL THROWS ONE

CONTRACTOR ONLY, SET RECONDANCE FOR SECOND CALL THROWS ONE

CONTRACTOR ONLY, SET RECONDANCE FOR SECOND CALL THROWS ONE

CONTRACTOR ONLY, SET RECONDANCE FOR SECOND CALL THROWS ONE

CONTRACTOR ONLY, SET RECONDANCE FOR SECOND CALL THROWS ONE

CONTRACTOR ONLY, SET RECONDANCE FOR SECOND CALL THROWS ONE

CONTRACTOR ONLY, SET RECONDANCE FOR SECOND CALL THROWS

THE CONTRACTOR ONLY, SET RECONDANCE FOR SECOND CALL THROWS

THE CONTRACTOR ONLY, SET RECONDANCE FOR SECOND CALL THROWS

THE CONTRACTOR ONLY, SET RECONDANCE FOR SECOND CALL THROWS

THE CONTRACTOR ONLY, SET RECONDANCE FOR SECOND CALL THROWS

THE CONTRACTOR ONLY, SET RECONDANCE FOR SECOND CALL THROWS

THE CONTRACTOR ONLY, SET RECONDANCE FOR SECOND CALL THROWS

THE CONTRACTOR ONLY, SET RECONDANCE FOR SECOND CALL THROWS

THE CONTRACTOR ONLY, SET RECONDANCE FOR SECOND CALL THROWS

THE CONTRACTOR ONLY, SET RECONDANCE FOR SECOND CALL THROWS

THE CONTRACTOR ONLY, SET RECONDANCE FOR SECOND CALL THROWS

THE CONTRACTOR ONLY, SET RECONDANCE FOR SECOND CALL THROWS

THE CONTRACTOR ONLY, SET RECONDANCE FOR SECOND CALL THROWS

THE CONTRACTOR ONLY, SET RECONDANCE FOR SECOND CALL THROWS

THE CONTRACTOR ONLY, SET RECONDANCE FOR SECOND CALL THROWS

THE CONTRACTOR ONLY, SET RECONDAN

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



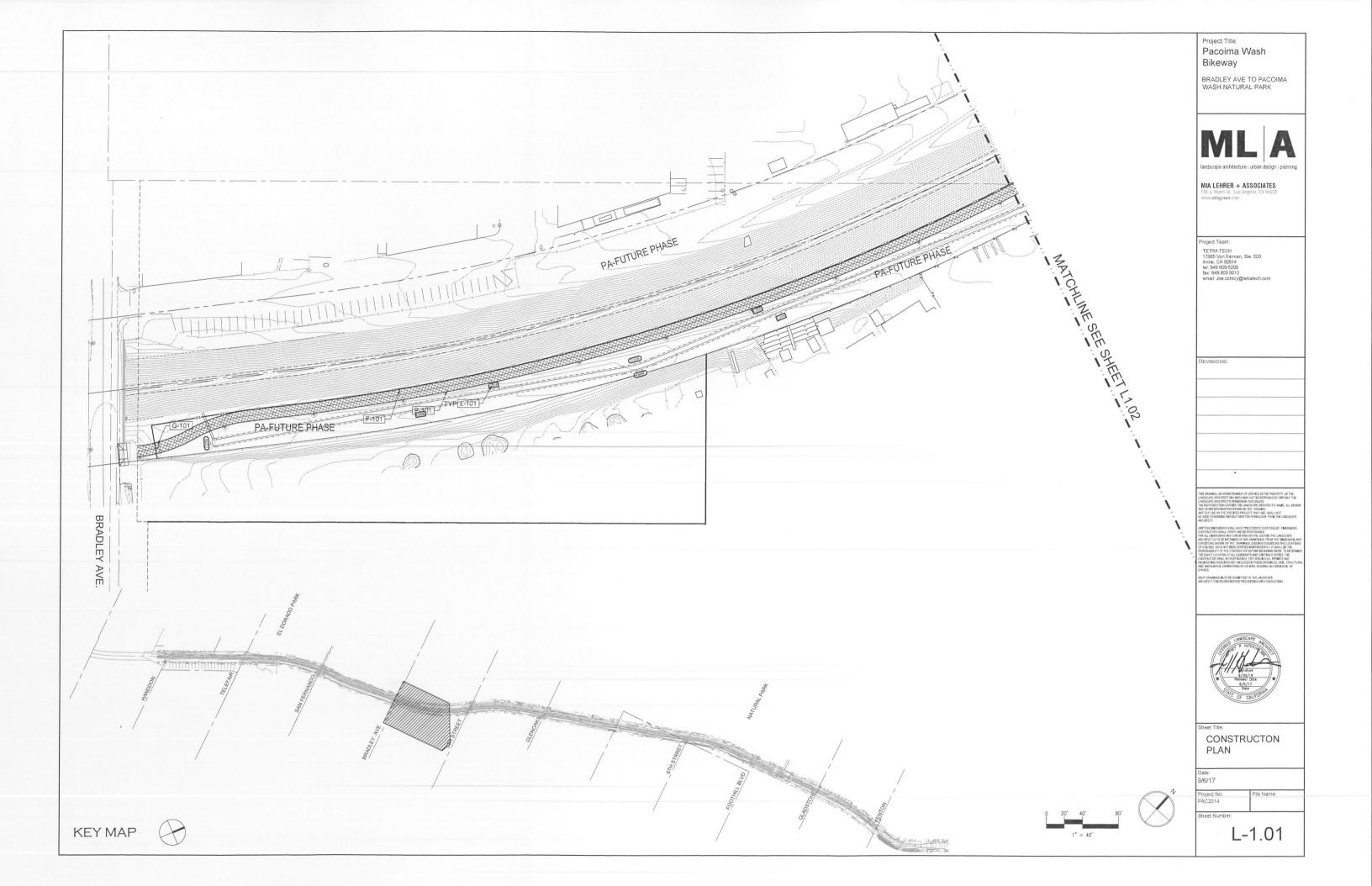
CONSTRUCTON NOTES & SCHEDULE

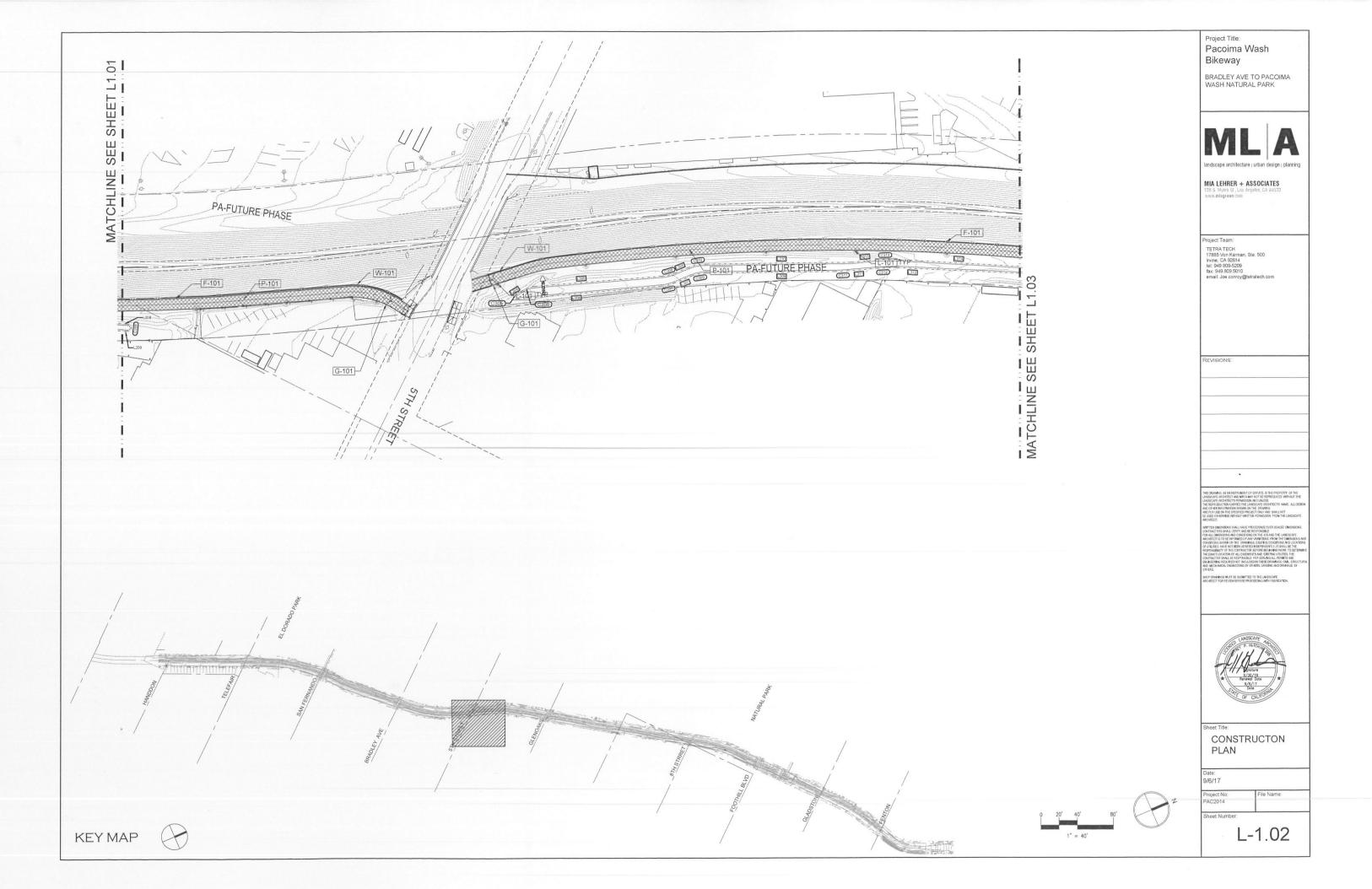
Date: 9/6/17

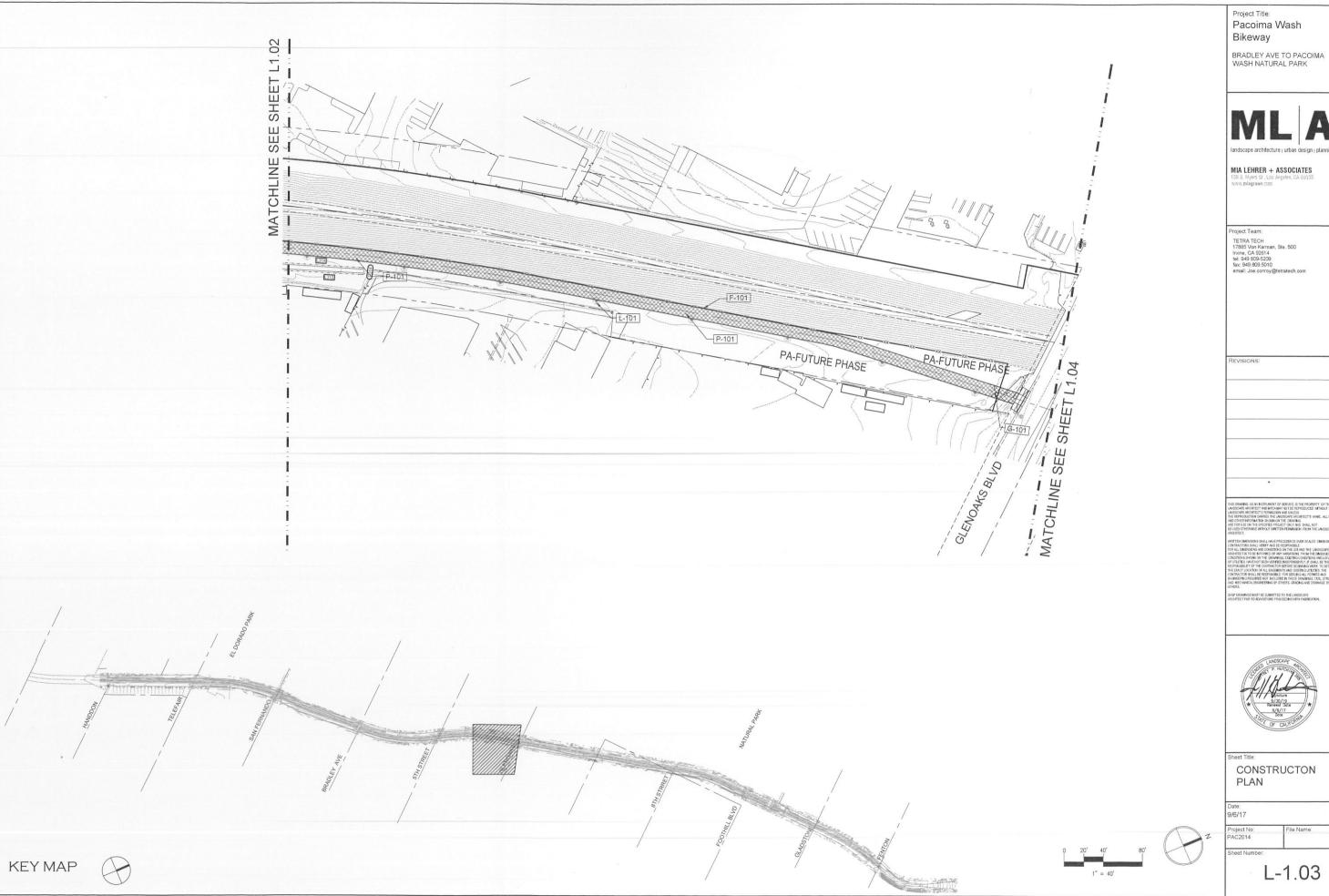
Project No:

1.4

L-1.00



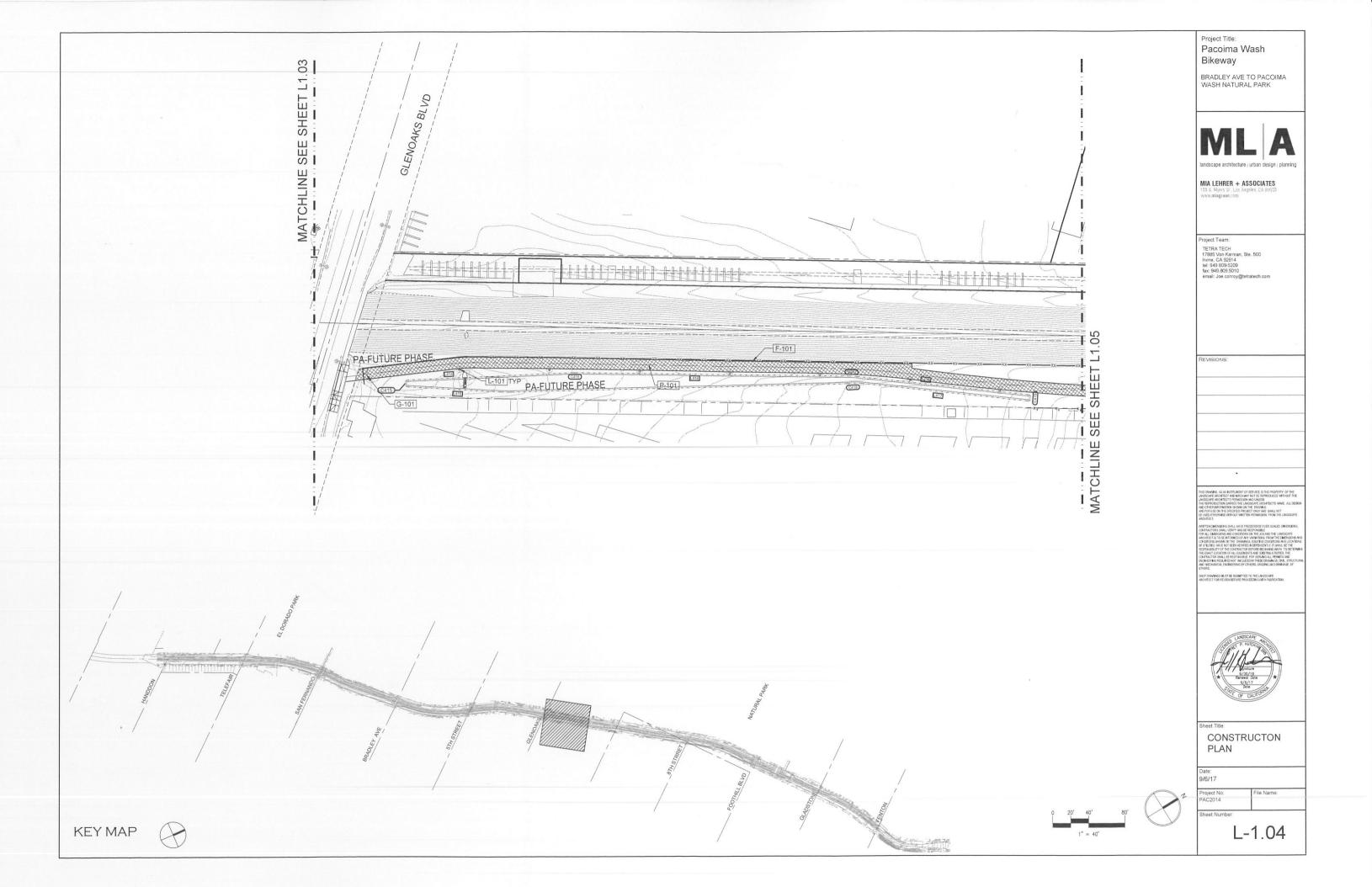


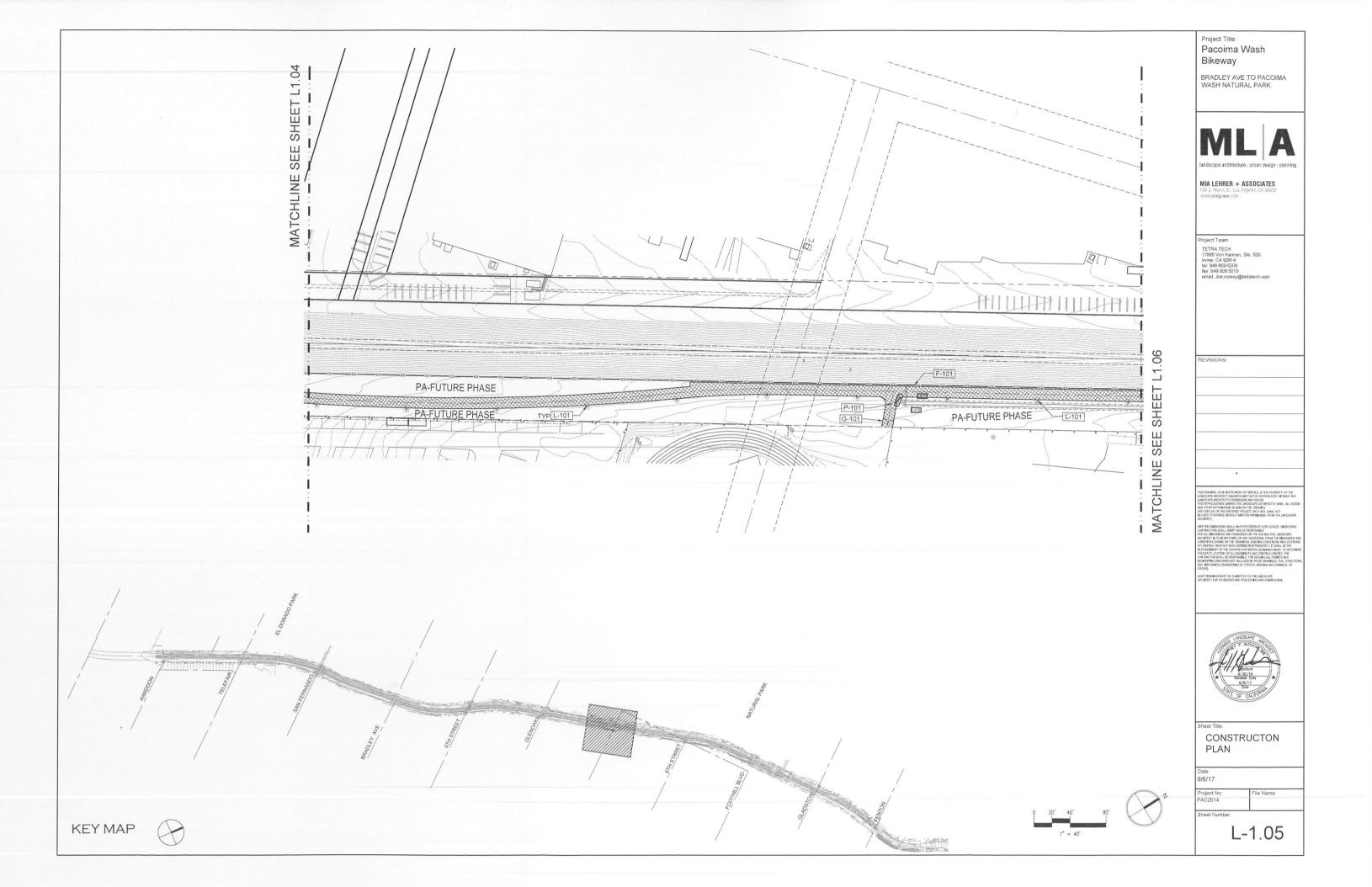


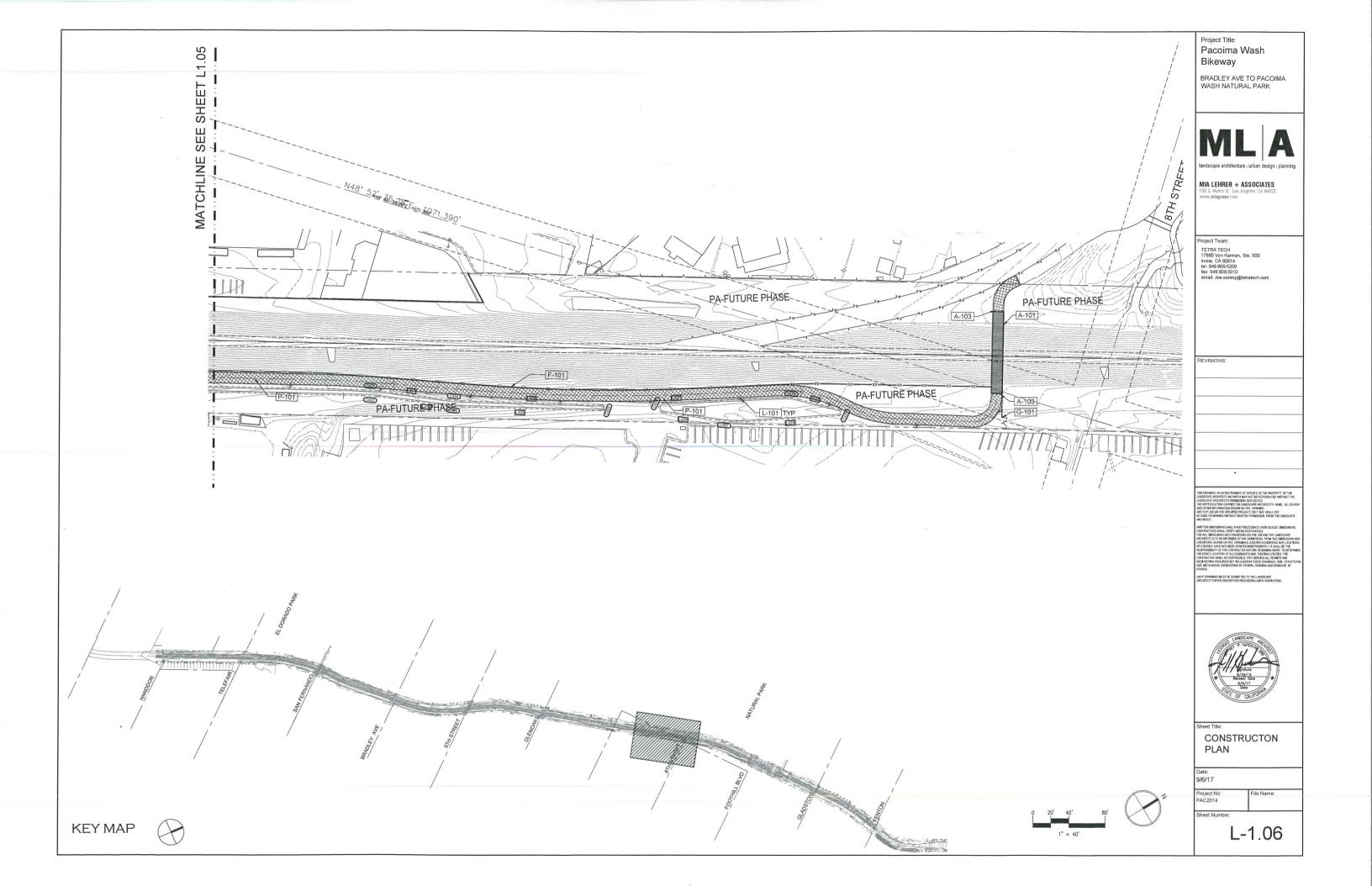


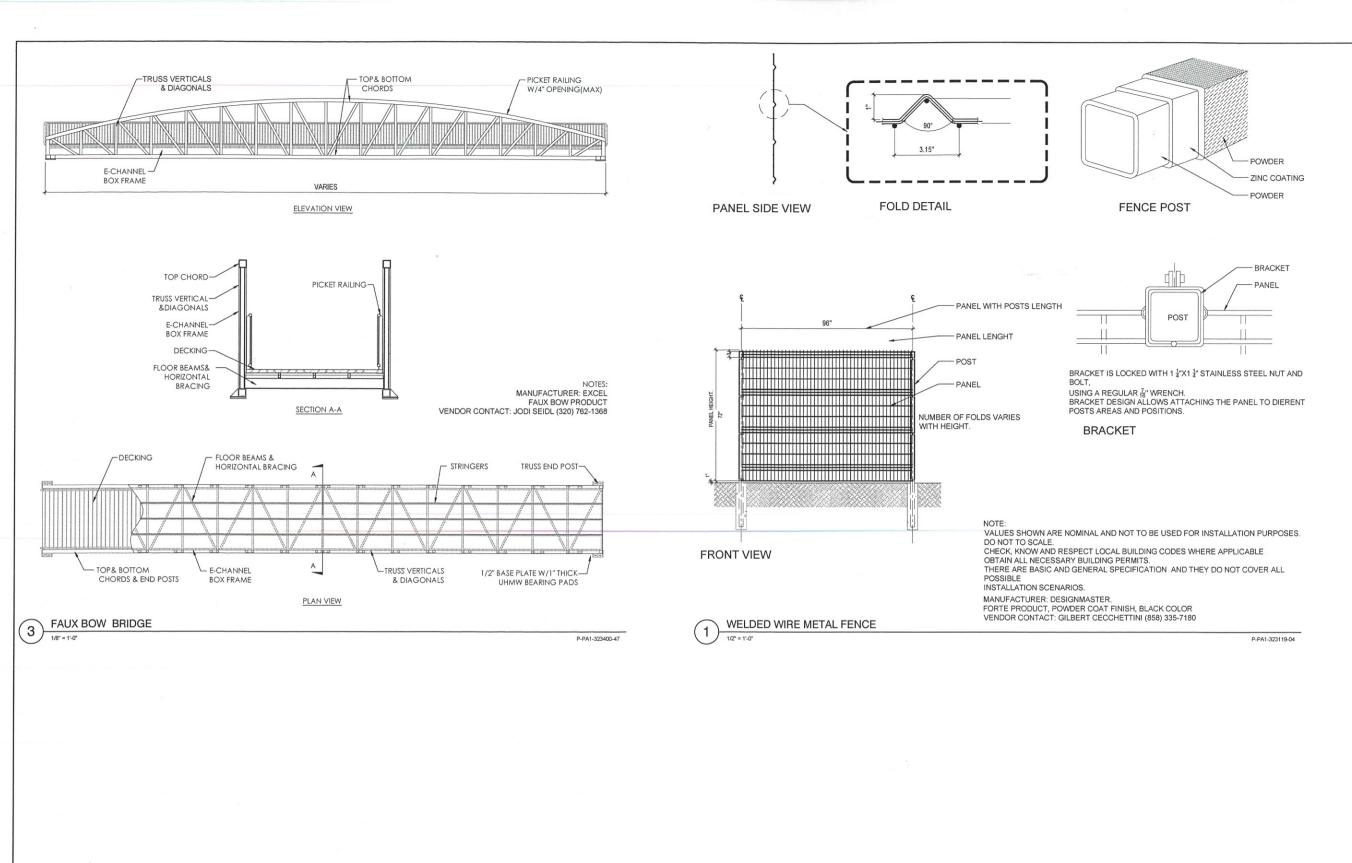


L-1.03









Project Title:
Pacoima Wash
Bikeway

BRADLEY AVE TO PACOIMA WASH NATURAL PARK

ML A

MIA LEHRER + ASSOCIATES

Emiagraen com

Project Team:
TETRATECH
17885 Von Karman, Ste. 500
Irvine, CA 92614
tel: 949 809-5209
fax: 949,809-5010
email: Joe.conroy@tetratech.cc

REVISIONS:

IS DRAWING AS AN INSTRUMENT OF SERVICE IS THE PROPERTY OF THE MIDGLAPE ARCHITECT AND MICHAMY NOT BE REPRODUCED WITHOUT TO MICHAPE ARCHITECTS PREMISSION AND WILL SES BE REPRODUCTION CAPRIES THE LANGSCAPE ARCHITECTS INSIE, ALL DI OF OTHER INFORMATION SHOWN ON THE DRAWING

MINITIA DIABNIANA SHALL HAVE PRECEDENCE OVER SCALED GIMENSON.
CONTRACTORS SHALL VERBY MORE DE ESPOCIOSILE.

ORAL L'ADMORDATA NO COOTORION ON THE L'ARROCAPE
ROCHIECTE ET DE REVORMEDO PAR HIMATICAS FROM THE L'ARROCAPE
ROCHIECTE ET DE REVORMEDO PAR HIMATICAS FROM THE L'ARROCAPE
ROCHIECTE ET DE REVORMESO STANI MANTICAS FROM THE L'ARROCAPE
ROCHIECTE SCALED DE L'ADMORDATICAS STANI CONCEITENCA NO COUTE
REPORTIONAL PER L'ARROCAPE STANI CONTRACTOR DE L'ARROCAPE
ROCHIECTE SCALED STANI CONTRACTOR STANI DE L'ARROCAPE
ROCHIECTE CONTRACTOR STANI CANDIDATE DE L'ARROCAPE
ROCHIECTE DE L'ARROCAPE PAR SERVINO ALL PERMITS AND
ROCHIECTE DIABATICA DE L'ARROCAPE PAR SERVINO ALL PERMITS AND
ROCHIECTE DIABATICA DE L'ARROCAPE PAR SERVINO ALL PERMITS AND
ROCHIECTE DIABATICA DE L'ARROCAPITÀ DE L'ARROCAPITÀ DE
ROCHIECTE DIABATICA DE L'ARROCAPITÀ DE L'ARROCAPITÀ DE
ROCHIECTE DE L'ARROCAPITÀ DE L'ARROCAPITÀ DE
ROCHIECTE DE L'ARROCAPITÀ DE
ROCHIECTE DE L'ARROCAPITÀ DE
ROCHIECTE DE L'ARROCAPITÀ DE
ROCHIECTE D
ROCHIECTE D
ROCHIECTE D
ROCHIECTE
ROC

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



Sheet Ti

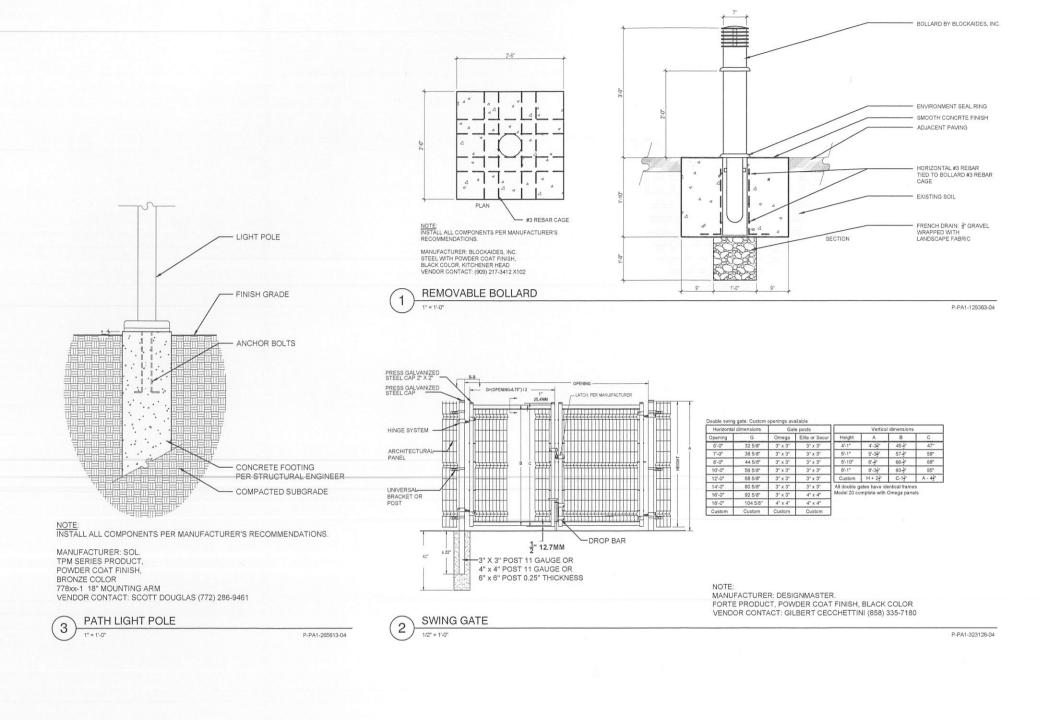
CONSTRUCTON DETAILS

Date: 9/6/17

Project No: PAC2014

Oh - - t M - - - h - - -

L-2.01



Project Title:
Pacoima Wash
Bikeway

BRADLEY AVE TO PACOIMA WASH NATURAL PARK

ML A

MIA LEHRER + ASSOCIATES

Project Team:
TETRA TECH
17885 Von Karman, Ste. 500
Irvine, CA 92614
tel: 949 809-5209
fax: 949.809.5010
email: Joe.conroy@tetratech.com

REVISIONS:

HIS DRAWING, AS AN INSTRUMENT OF SERVICE IS THE PROPERTY OF THE WOOCKER ANOTHER YARD WERE AND WITCH AN INDICATE REPRODUCE WITHOUT THE WOOCKER ANOTHER THE PRIMISSIAN WILL DESCRIBE A REPROSOCITION CHARLES THE UNICACHE ARCHITECTS NAME, ALL DESS OF THE PROPERTY SHOWNED HE WORKEN THE WORK OF THE PROPERTY SHOWNED THE WORK OF THE PROPERTY SHOWNED HE WORK OF THE PROPERTY OF THE PROPERTY

WRITTIN MARKANDA DIAL MAN PERCENTRO CHE ROLLO DIMINISCHI.
CONTRACTION DAVIL LAWAY PAGE RESEARCHMENT.
FOR ALL DIMINISCHI CONTRACTION OF THE LAGGADY FOR ALL MODIFIES.
FOR ALL DIMINISCHI CHEMICA CHEMICATE AND THE LAGGADY FOR ALL MODIFIES.
FOR ALL DIMINISCHI CHEMICATE AND THE LAGGADY FOR ALL MODIFIES TO THE LAGGADY FOR ALL MODIFIES THE CHEMICATE AND THE LAGGADY FOR ALL MODIFIES THE CHEMICATE AND THE LAGGADY C

ARCHITECT FOR REVIEW BEFORE PROCEEDING WITH FABRICA



Sheet Tit

CONSTRUCTON DETAILS

Date: 9/6/17

Project No: File Name PAC2014

Sheet Number:

L-2.02