

CITY OF HOLTVILLE

RAILROAD TRESTLE BRIDGE REHABILITATION OVER ALAMO RIVER, ALONGSIDE HIGHWAY 115

ISSUED FOR CONSTRUCTION PLANS - OCTOBER 20, 2025



KLEINFELDER
SAN DIEGO OFFICE HEADQUARTERS
770 First Avenue, Suite 400
San Diego, CA 92101
Tel. (619) 831-4600 Fax. (619) 232-1039

PROJECT DESCRIPTION

THIS PROJECT INCLUDES THE REHABILITATION OF A WOODEN TRESTLE BRIDGE (PREVIOUSLY DAMAGED BY FIRE) - TRANSITIONING FROM RAILROAD USE TO PEDESTRIAN USE.
THIS PROJECT INCLUDES THE INSTALLATION OF MULTI-PURPOSE TRAILS AND SEATING AREAS, ALONG WITH LANDSCAPING FEATURES AND IRRIGATION.

GENERAL NOTES

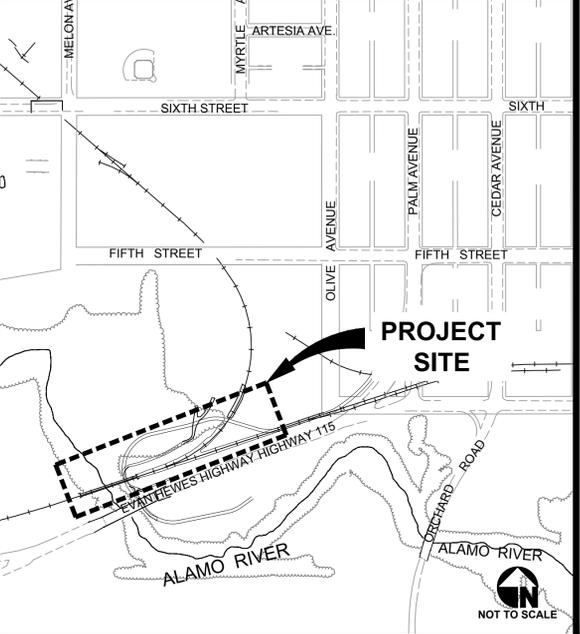
- UTILITIES**
THE LOCATION OF UNDERGROUND UTILITIES ILLUSTRATED ON THE PLANS IS APPROXIMATE. IT IS THE RESPONSIBILITY OF THE CONTRACTOR TO CONTACT UNDERGROUND SERVICE ALERT TO EXACTLY LOCATE THE UNDERGROUND UTILITIES. UNDERGROUND SERVICE ALERT SHOULD BE CONTACTED 72 HOURS BEFORE ANY EXCAVATION BEGINS.
THE CONTRACTOR SHALL ASSUME COMPLETE RESPONSIBILITY FOR DAMAGED UTILITIES. A LIST OF UTILITY COMPANIES WHICH SERVICE THE CITY OF HOLTVILLE APPEARS BELOW:
A. SPECTRUM
313 N. EIGHTH STREET
EL CENTRO, CA 92243
PHONE: (760) 335-4818
CONTACT: CHRIS CORTEZ
B. SOUTHERN CALIFORNIA GAS COMPANY-PLANNING DEPARTMENT
P.O. BOX 3003
1981 W. LUGONIA AVENUE
REDLANDS, CA 92373
PHONE: (909) 335-7716
CONTACT: MICHAEL JOCOB
C. SOUTHERN CALIFORNIA GAS COMPANY
602 EAST ROSS AVENUE
EL CENTRO, CA 92243
PHONE: (760) 352-6100
CONTACT: DAVID MORENO
D. IMPERIAL IRRIGATION DISTRICT - POWER DIVISION
1699 WEST MAIN STREET
EL CENTRO, CA 92243
PHONE: (760) 492-3408
CONTACT: ALFRED ORNELAS
E. IMPERIAL IRRIGATION DISTRICT - WATER DIVISION
333 E. BARIANI BLVD. T
IMPERIAL, CA 92251
PHONE: (760) 339-9189
CONTACT: JOHN KILPS, P.E.
F. AT&T TELEPHONE
1029 S. SECOND STREET
EL CENTRO, CA 92243
PHONE: (760) 337-3325 OR (760) 337-3358
CONTACT: DANIEL GARCIA
G. CITY OF HOLTVILLE
121 W. FIFTH STREET
HOLTVILLE, CA 92250
PHONE: (760) 356-2632 CELL: (760) 996-4657
CONTACT: ALEX CHAVEZ, PUBLIC WORKS SUPERVISOR
H. ALLIED WASTE SERVICES
3354 DOGWOOD ROAD
IMPERIAL, CA 92251
PHONE: (760) 355-0004
CONTACT: ENRIQUE RAMIREZ
ALFREDO JIMENEZ
I. UNDERGROUND SERVICE ALERT
PHONE: 811
2. **AS-BUILT DRAWINGS**
THE CONTRACTOR SHALL MAINTAIN A SET OF DRAWINGS ON THE JOB ILLUSTRATING ALL "AS-BUILT" CHANGES MADE TO DATE. A MARKED-UP SET OF DRAWINGS SHALL BE DELIVERED TO THE ENGINEER UPON COMPLETION OF THE WORK, WHICH SHALL REFLECT ALL "AS-BUILT" MODIFICATIONS. THE CONTRACTOR SHALL PROVIDE "AS-BUILT" DRAWINGS TO THE ENGINEER AT THE CONCLUSION OF THE PROJECT. THE "AS-BUILT" DRAWINGS SHALL BE REVIEWED AND APPROVED BY THE ENGINEER. THREE (3) SETS OF APPROVED BLUELINE DRAWINGS AND AN ELECTRONIC FILE SHALL BE FORWARDED TO THE ENGINEER AT THE CONCLUSION OF THE PROJECT.
3. **DUST CONTROL**
THE CONTRACTOR SHALL MAKE A SPECIAL EFFORT TO CONTROL DUST DURING THE EXECUTION OF THE WORK. DUST SHALL BE MAINTAINED TO A MINIMUM BY REGULAR APPLICATIONS OF WATER AS NECESSARY AND AS DIRECTED BY THE ENGINEER.
4. **CODES AND REGULATIONS**
ALL WORK AND MATERIALS SHALL BE IN ACCORDANCE WITH APPLICABLE CODES, ORDINANCES AND REGULATIONS OF THE CITY OF HOLTVILLE, THE STATE OF CALIFORNIA AND ALL OTHER PUBLIC AUTHORITIES HAVING JURISDICTION. CODES GOVERNING THIS WORK INCLUDE, BUT ARE NOT LIMITED TO, THE LATEST APPROVED EDITION OF THE FOLLOWING: STATE OF CALIFORNIA DEPARTMENT OF TRANSPORTATION STANDARD SPECIFICATIONS, LATEST EDITION; STANDARD SPECIFICATIONS FOR PUBLIC WORKS CONSTRUCTION (GREENBOOK) LATEST EDITION; OCCUPATIONAL SAFETY AND HEALTH ACT (OSHA); CITY OF HOLTVILLE ORDINANCES AND REGULATIONS AND CITY OF HOLTVILLE STANDARD DETAILS AND SPECIFICATIONS DATED JUNE 13, 2005. REQUIREMENTS OF CODES AND REGULATIONS SHALL BE CONSIDERED AS MINIMUM. WHERE CONTRACT DOCUMENTS EXCEED WITHOUT VIOLATING CODE AND REGULATION REQUIREMENTS, CONTRACT DOCUMENTS SHALL TAKE PRECEDENCE. WHERE CODES CONFLICT, THE MORE STRINGENT SHALL APPLY. THE CONTRACTOR SHALL FURNISH ALL MATERIALS AND LABOR REQUIRED FOR COMPLIANCE WITH CODES AND REGULATIONS, EVEN THOUGH NOT SPECIFICALLY MENTIONED OR ILLUSTRATED, WITHIN THE CONTENTS OF THE PLANS OR SPECIFICATIONS.
5. **EXAMINATION OF SITE**
IT IS THE RESPONSIBILITY OF THE CONTRACTOR AND SUBCONTRACTOR(S) TO EXAMINE THE PROJECT SITE PRIOR TO THE OPENING OF PROPOSALS. THE CONTRACTOR SHALL BECOME FAMILIAR AS TO THE CONDITIONS UNDER WHICH THE WORK IS TO BE PERFORMED. IT IS EXPECTED THAT QUESTIONS RELEVANT TO THE WORK TO BE PERFORMED AT THE PROJECT WILL BE PRESENTED TO THE ENGINEER PRIOR TO THE NEGOTIATION OF A CONTRACT. IF CONFLICTS OR AMBIGUITIES EXIST BETWEEN JOB SITE CONDITIONS AND THE PLANS AND SPECIFICATIONS NO ALLOWANCE WILL BE PROVIDED TO THE CONTRACTOR AND SUBCONTRACTORS FOR NEGLECTING TO PROPERLY EXAMINE THE PROJECT SITE DURING THE BIDDING PERIOD.

- PERMITS**
THE CONTRACTORS AND SUBCONTRACTORS SHALL OBTAIN ALL NECESSARY PERMITS AND A BUSINESS LICENSE FROM THE CITY OF HOLTVILLE. THE CONTRACTOR SHALL NOTIFY THE CITY OF HOLTVILLE AND THE ENGINEER AT LEAST 72 HOURS PRIOR TO COMMENCING WORK. THE CONTRACTOR SHALL INCLUDE ALL EXPENSES ASSOCIATED WITH THE HOLTVILLE BUSINESS LICENSE IN THE PROPOSAL.
- TRAFFIC CONTROL**
THE TRAFFIC CONTROL PLAN FOR CONSTRUCTION OF THIS PROJECT WAS COMPLETED DURING THE PROJECT DESIGN AND IS INCLUDED WITHIN THESE IMPROVEMENT PLANS. THE CONTRACTOR SHALL NOTIFY PROPERTY OWNERS, OCCUPANTS, BUSINESSES OR OTHER FACILITIES OF AFFECTED PROPERTIES ACCESSING A PARTICULAR STREET OR CONSTRUCTION AREA WITH A WRITTEN NOTICE FIVE (5) WORKING DAYS PRIOR TO THE BEGINNING OF CONSTRUCTION. THE PROPERTY OWNERS SHALL BE NOTIFIED OF THE DATE AND TIME DURATION A STREET SECTION WILL BE AFFECTED BY THE CONSTRUCTION PROCESS. THE NOTIFICATION SHALL BE DELIVERED TO EACH RESIDENCE OR PROPERTY OWNER AND A NOTIFICATION SHALL BE PLACED BENEATH THE WINDSHIELD WIPER OF EACH CAR PARKED ALONG THE STREET SECTION. ALL SIDE STREETS SHALL BE OPENED TO TRAFFIC AT THE END OF EACH WORKING DAY. ALL DRIVEWAY ENTRANCES TO RESIDENCES, BUSINESSES AND APARTMENT BUILDINGS SHALL BE MADE ACCESSIBLE AT THE END OF CONSTRUCTION EACH WORK DAY. THE CONTRACTOR SHALL MAKE ACCOMMODATIONS TO ALLOW REGULARLY SCHEDULED SOLID WASTE DISPOSAL PICK UP ALONG THE AFFECTED STREET SECTIONS.
THE CONTRACTOR SHALL ADVERTISE EACH STREET CLOSURE IN LOCAL NEWSPAPERS FOURTEEN (14) DAYS PRIOR TO CLOSING OF THE STREET. TRAFFIC CONTROL SIGNS INDICATING STREET NAME AND DATE OF STREET CLOSURE AT EACH DIRECTION OF THE AFFECTED CLOSURE AREA SHALL BE PLACED AT THE LOCATIONS ILLUSTRATED IN THE TRAFFIC CONTROL AND DETOUR PLAN SEVEN (7) DAYS PRIOR TO THE STREET CLOSURE.
ALL TRAFFIC CONTROLS SHALL BE CLEARLY POSTED WITH SIGNS PRIOR TO THE BEGINNING OF ANY WORK. THE APPROPRIATE SIGNS, INCLUDING: CONSTRUCTION ZONE, FRESH OIL, ROAD MACHINERY AHEAD, ONE LANE ROAD AHEAD, ROAD CONSTRUCTION AHEAD, LANE CLOSED, ROAD CLOSED, DETOUR, ROAD WORK, SPEED LIMIT 25, END 25 SPEED LIMIT SIGN, AND ALL OTHER REQUIRED SIGNS SHALL BE PLACED ACCORDING TO THE APPROVED TRAFFIC CONTROL PLANS. EXTRA SIGNS, BARRICADES OR DIFFERENT TYPES OF BARRICADES CAN BE ORDERED TO BE PLACED AT THE PROJECT SITE AT ANY TIME AT THE ENGINEER'S DISCRETION. ADDITIONAL SIGNS AND BARRICADES SHALL BE PLACED AT NO EXTRA COST AT THE PROJECT SITE IF SO ORDERED BY THE ENGINEER. THE CONTRACTOR SHALL BE RESPONSIBLE FOR ALL THE EXPENSES RELATIVE TO TRAFFIC CONTROL.
3. **SIGNS**
STOP SIGNS AND ALL OTHER TRAFFIC SIGNS SHALL BE MOVED IF NECESSARY DURING THE CONSTRUCTION PROCESS AND BE REPOSITIONED TEMPORARILY IN A LOCATION DETERMINED BY THE ENGINEER. STOP SIGNS SHALL NOT BE REMOVED FROM SERVICE, BUT RATHER RELOCATED TO A VISIBLE LOCATION. OTHER SIGNS LOCATED WITHIN THE CONSTRUCTION AREA SHALL BE STORED BY THE CONTRACTOR DURING THE CONSTRUCTION PHASE OF THE PROJECT. AT THE CONCLUSION OF THE PROJECT, ALL SIGNS SHALL BE POSITIONED IN A PERMANENT LOCATION AS DETERMINED BY THE PLANS OR ENGINEER.
4. **BARRICADES**
DURING THE INSTALLATION OF THE P.C.C. CONCRETE FACILITIES AND WATER FACILITIES, THE CONTRACTOR SHALL MAINTAIN LIGHTED BARRICADES ALONG THE LENGTH OF THE CONCRETE FACILITIES AND PIPELINES TO PROHIBIT PEDESTRIAN TRAFFIC OR VEHICULAR TRAFFIC FROM UTILIZING THE NEW CONCRETE FACILITIES UNTIL THE CURING PROCESS IS COMPLETE OR ENTERING OPEN EXCAVATIONS. THE CONTRACTOR SHALL SUPPLY THE QUANTITY OF BARRICADES REQUIRED. IF THE LIGHTED BARRICADES BECOME DEFECTIVE OR NON-FUNCTIONAL, THE BARRICADES SHALL BE IMMEDIATELY REPLACED AS DIRECTED BY THE ENGINEER. BARRICADES SHALL BE PLACED ALONG THE EDGES OF THE NEW CONCRETE FACILITIES OR PIPELINE EXCAVATIONS AT FOUR FEET (4') ON CENTER TO DIVERT VEHICULAR AND PEDESTRIAN TRAFFIC AROUND THE CONSTRUCTION AREAS. WARNING TAPE SHALL BE EXTENDED BETWEEN THE BARRICADES. ADDITIONAL BARRICADES SHALL BE ADDED IF REQUIRED AS DIRECTED BY THE ENGINEER. THE CONTRACTOR SHALL INCLUDE THE COST ASSOCIATED WITH BARRICADE SUPPLY AND PLACEMENT IN THE PROPOSAL.
5. **RESTROOM FACILITIES**
THE CONTRACTOR SHALL LOCATE MEN'S AND WOMEN'S PORTABLE RESTROOM FACILITIES AT THE PROJECT SITE DURING THE CONSTRUCTION PERIOD. THE PORTABLE RESTROOMS SHALL BE CLEANED ON A WEEKLY BASIS.
6. **ACCESS TO PRIVATE PROPERTY**
THE CONTRACTOR SHALL PROVIDE FOR INGRESS AND EGRESS FOR PRIVATE PROPERTY ADJACENT TO THE WORK THROUGHOUT THE PERIOD OF CONSTRUCTION.
7. **CLEAN-UP OF EXISTING STREETS**
ANY DIRT, DUST OR MUD, EITHER TRACKED OFF-SITE BY EQUIPMENT OR BLOWN INTO ADJACENT CITY STREETS WILL BE CLEANED UP DAILY BY THE RESPONSIBLE CONTRACTOR OR SUBCONTRACTOR.
8. **OPEN TRENCHES**
NO OPEN TRENCHES WILL BE PERMITTED OVERNIGHT WITHOUT THE APPROVAL OF THE PUBLIC WORKS SUPERVISOR.
9. **PRE-CONSTRUCTION CONFERENCE**
A PRE-CONSTRUCTION CONFERENCE SHALL BE CONDUCTED WITH THE PUBLIC WORKS SUPERVISOR, ENGINEER, CITY MANAGER, CONTRACTOR AND SUBCONTRACTORS AT LEAST 7 DAYS PRIOR TO THE COMMENCEMENT OF CONSTRUCTION ACTIVITIES.

ABBREVIATIONS

AGG.	AGGREGATE	O.C.	ON CENTER
B.C.	BEGINNING OF CURVE RADIUS	OG	ORIGINAL GRADE
CL	CENTERLINE	OHE	OVERHEAD ELECTRICAL LINE
CYD	CUBIC YARD	%	PERCENT
Δ	DELTA	P.C.C.	PORTLAND CONCRETE CEMENT
DIA.	DIAMETER	POC	POINT OF CONNECTION
DWG.	DRAWING	PSI	POUNDS PER SQUARE INCH
EL.	ELEVATION	PVC	POLY VINYL CHLORIDE
E.C.	END OF CURVE RADIUS	QCP	QUALITY CONTROL PLAN
F.S.	FINISH SURFACE	R.	RADIUS
FT.	FOOT/FEET	ROW	RIGHT-OF-WAY
GAL.	GALLON	S.	SLOPE
G.B.	GRADE BREAK	SQ.	SQUARE
HWY	HIGHWAY	STA	STATION
INV.	INVERT	SW	SIDEWALK
MAX.	MAXIMUM	TC	TOP OF CONCRETE
MIN.	MINIMUM	TEL.	TELEPHONE
MISC.	MISCELLANEOUS	TYP.	TYPICAL
NO.	NUMBER	W	WITH
NS.	NATIVE SURFACE	YR	YEAR
N.T.S.	NOT TO SCALE		

VICINITY MAP

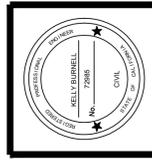


DECLARATION OF RESPONSIBLE CHARGE
I HEREBY DECLARE THAT I AM THE ENGINEER OF RECORD FOR THE DESIGN OF THE PROJECT AND I AM RESPONSIBLE FOR THE DESIGN OF THE PROJECT. I AM A LICENSED PROFESSIONAL ENGINEER IN THE STATE OF CALIFORNIA AND I AM A LICENSED PROFESSIONAL ENGINEER IN THE STATE OF CALIFORNIA. MY DESIGN IS IN ACCORDANCE WITH THE CURRENT EDITIONS OF THE CALIFORNIA ENGINEERING PROFESSIONAL BOARD'S DESIGN STANDARDS AND SPECIFICATIONS AND I AM A LICENSED PROFESSIONAL ENGINEER IN THE STATE OF CALIFORNIA. I HAVE REVIEWED THE PLANS AND SPECIFICATIONS AND I AM SURE THAT THEY COMPLY WITH ALL APPLICABLE CODES AND REGULATIONS. I HAVE REVIEWED THE PLANS AND SPECIFICATIONS AND I AM SURE THAT THEY COMPLY WITH ALL APPLICABLE CODES AND REGULATIONS. I HAVE REVIEWED THE PLANS AND SPECIFICATIONS AND I AM SURE THAT THEY COMPLY WITH ALL APPLICABLE CODES AND REGULATIONS.
KELLY BURNELL, P.E.
R.C.E. NO. 7898
DATE: 10/20/2025

DIGALERT **Dig Safely**
DIAL TOLL FREE
811
AT LEAST TWO DAYS
BEFORE YOU DIG
UNDERGROUND SERVICE ALERT OF SOUTHERN CALIFORNIA

APPROVED FOR THE CITY OF HOLTVILLE
BY: *Nick Wells*
NICK WELLS
CITY MANAGER
11/19/2025
DATE

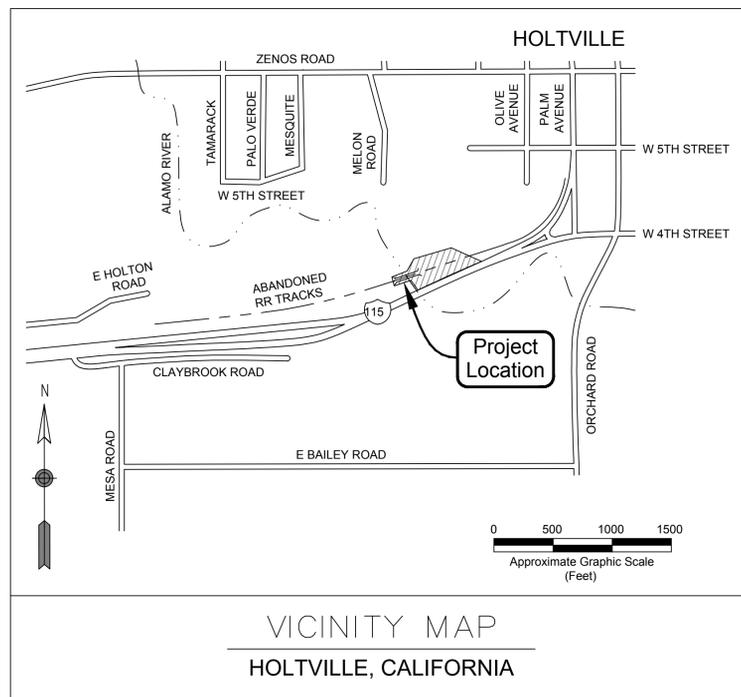
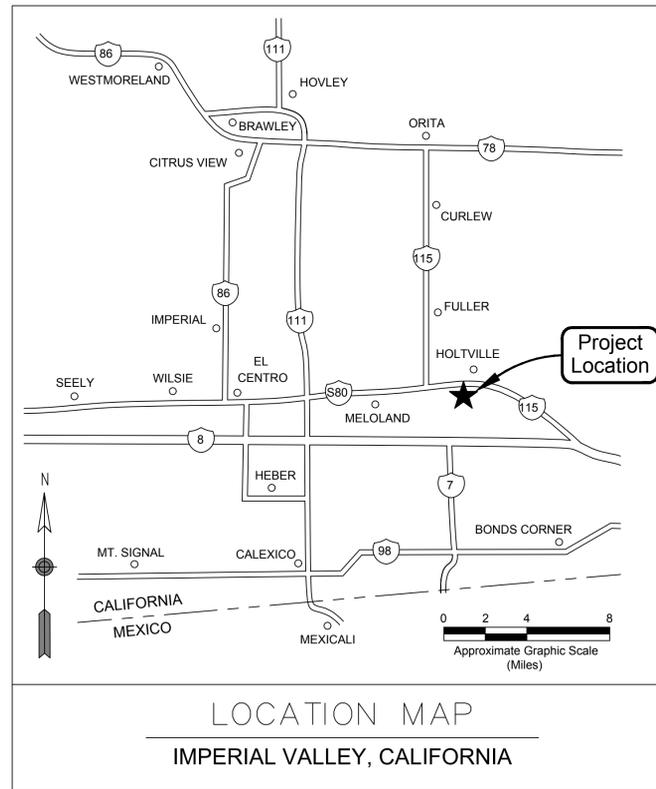
PREPARED UNDER THE DIRECT SUPERVISION OF:
KELLY BURNELL, P.E.
10/20/2025
DATE
78985
R.C.E. NO.
12/31/26
REG. EXP.



PROJECT TITLE: CITY OF HOLTVILLE - RAILROAD TRESTLE BRIDGE REHABILITATION OVER ALAMO RIVER, ALONGSIDE HIGHWAY 115
PROJECT NUMBER:
SHEET CONTENT: **TITLE SHEET**

DESIGNED BY: AT, DJ, JM
DRAWN BY: RP, TB, TH
CHECKED BY: DB, MC, KB

SHEET **1**
No. **1**
OF
41 SHEETS



TOTAL AREA OF DISTURBANCE
SITE - 0.945 ACRES

GRADING QUANTITIES
GRADED AREA: 0.448 ACRES
CUT: 14.1 CYD
FILL: 88.5 CYD
NET: 74.4 CYD (FILL)

QUANTITIES ABOVE DO NOT INCLUDE SHRINKAGE/SWELL FACTORS

BASIS OF BEARINGS

THE BASIS OF BEARINGS FOR THIS SURVEY IS THE N 78 29'50" E BETWEEN NGS STATION "CO J 4 1983" AND "B 1224" AND ARE BASED UPON A LOCAL COORDINATE SYSTEM ACCORDING TO MAP ON FILE IN BOOK 21, PAGE 1 OF RECORD OF SURVEY IN THE OFFICE OF THE IMPERIAL COUNTY RECORDER.

STATION	NORTHING	EASTING
CO J A	1874320.433	6823599.307
B 1224	1875235.986	6828098.287

PROJECT BENCHMARK

THE STATION MARK IS A STANDARD BENCHMARK DISK SET IN THE TOP OF HEADWALL. THE STATION IS LOCATED ABOUT 1.14 MI WEST ALONG EVAN HEWES HIGHWAY (HIGHWAY 115) FROM THE CROSSING OF HOLT AVENUE IN HOLTVILLE TO THE CROSSING OF METS ROAD, 27 FEET NORTH OF THE CENTERLINE OF EVAN HEWES HIGHWAY (HIGHWAY 115), 12 FEET WEST OF THE EXTENDED CENTER LINE OF METS ROAD, 84 FEET EAST AND SOUTH OF BM X 59, SET ON TOP OF THE SOUTHWEST CORNER OF CONCRETE HEADWALL OF A CULVERT UNDER EVAN HEWES HIGHWAY (HIGHWAY 115).

ELEVATION: 980.980' (NAVD 88 + 1000')

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4	C-101	EXISTING CONDITIONS
5	C-102	EXISTING CONDITIONS - PATHWAY (WEST)
6	C-103	EXISTING CONDITIONS - PATHWAY (EAST)
7	C-201	PROPOSED SITE PLAN
8	C-202	PROPOSED SITE PLAN - PATHWAY (WEST)
9	C-203	PROPOSED SITE PLAN - PATHWAY (EAST)
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11	C-302	GRADING AND E&S DETAILED PLAN NO. 1
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30	L-205	IRRIGATION DETAILS
31	L-301	PLANTING PLAN
32	L-302	PLANTING PLAN
33	L-303	PLANTING LEGEND, NOTES
34	L-304	PLANTING DETAILS
35	S-101	GENERAL PLAN NO. 1
36	S-102	GENERAL PLAN NO. 2
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39	S-105	BENT 11 REPAIR DETAILS NO. 1
40	S-106	BENT 11 REPAIR DETAILS NO. 2
41	S-107	MISCELLANEOUS REPAIR DETAILS

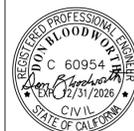
DISCIPLINE CODES

- G - GENERAL
- C - CIVIL
- L - LANDSCAPING
- S - STRUCTURAL

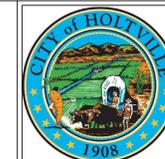
DWG. NO.

REV.	DATE	REVISION DESCRIPTION	BY	DESIGNED BY:	AET
				DRAWN BY:	RSP
				APPROVED BY:	DB
				DRAWING:	
				PLOT DATE:	10/20/2025

770 First Avenue, Suite 400 San Diego, CA 92101
Tel. (619) 831-4600 Fax. (619) 232-1039



CITY OF HOLTVILLE
121 W. 5TH STREET
HOLTVILLE, CALIFORNIA 92250



**ALAMO RIVER TRESTLE
BRIDGE MODIFICATIONS
HOLTVILLE, CALIFORNIA**

**SHEET INDEX
AND PROJECT
LOCATION MAPS**

G-001

SHEET 2 OF 41

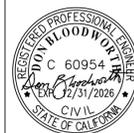
ISSUED FOR CONSTRUCTION PLANS

GRADING NOTES:

1. APPROVAL OF THIS GRADING PLAN DOES NOT CONSTITUTE APPROVAL OF VERTICAL OR HORIZONTAL ALIGNMENT OF ANY PRIVATE ROAD SHOWN HEREON FOR COUNTY ROAD PURPOSES.
2. FINAL APPROVAL OF THESE GRADING PLANS SUBJECT TO FINAL APPROVAL OF THE ASSOCIATED IMPROVEMENT PLANS WHERE APPLICABLE. FINAL GRADE ELEVATIONS MAY REQUIRE CHANGES IN THESE PLANS.
3. IMPORT MATERIAL SHALL BE OBTAINED FROM A LEGAL SITE.
4. THE CONTRACTOR SHALL BE RESPONSIBLE TO SECURE AN ENCROACHMENT PERMIT FROM THE COUNTY OF IMPERIAL DEPARTMENT OF PUBLIC WORKS FOR ANY EXCAVATION OR CONSTRUCTION WITHIN COUNTY ROAD RIGHT-OF-WAY. FOR INSPECTIONS, 48 HOUR MINIMUM NOTICE IS REQUIRED. (760) 482-4462. ADDITIONALLY, UNDERGROUND SERVICE ALERT (USA) MUST BE CALLED TWO WORKING DAYS BEFORE THE CONTRACTOR MAY EXCAVATE. THEIR CONTACT NUMBER 811 (formerly (800) 422-4133). ALL WORK AND MATERIALS ARE SUBJECT TO THE INSPECTION AND APPROVAL OF THE COUNTY DEPARTMENT OF PUBLIC WORKS.
5. A SOILS REPORT MAY BE REQUIRED PRIOR TO THE ISSUANCE OF A BUILDING PERMIT AND/OR GRADING PLAN APPROVAL.
6. APPROVAL OF THESE PLANS BY THE DIRECTOR OF PUBLIC WORKS DOES NOT AUTHORIZE ANY WORK OR GRADING TO BE PERFORMED UNTIL THE PROPERTY OWNER'S PERMISSION HAS BEEN OBTAINED AND VALID GRADING PERMIT HAS BEEN ISSUED BY THE COUNTY PLANNING & DEVELOPMENT SERVICES DEPARTMENT.
7. THE DIRECTOR OF PUBLIC WORKS' APPROVAL OF THESE PLANS DOES NOT CONSTITUTE COUNTY BUILDING OFFICIAL APPROVAL OF ANY FOUNDATION FOR STRUCTURES TO BE PLACED ON THE ITEMS COVERED BY THESE PLANS, INCLUDING ANY ONSITE OR PERIMETER SCREEN OR RETAINING WALLS.
8. ALL MAJOR SLOPES SHALL BE ROUNDED INTO EXISTING TERRAIN TO PRODUCE A CONTOURED TRANSITION FROM CUT OR FILL FACES TO NATURAL GROUND AND ABUTTING CUT OR FILL SURFACES.
9. NOTWITHSTANDING THE MINIMUM STANDARDS SET FORTH IN THE GRADING ORDINANCE AND NOTWITHSTANDING THE APPROVAL OF THESE GRADING PLANS, THE PERMITTEE IS RESPONSIBLE FOR THE PREVENTION OF DAMAGE TO ADJACENT PROPERTY. NO PERSON SHALL EXCAVATE ON LAND SO CLOSE TO THE PROPERTY LINE AS TO ENDANGER ANY SUCH PROPERTY FROM SETTLING, CRACKING, EROSION SILTING, SCOUR OR OTHER DAMAGE, WHICH MIGHT RESULT FROM THE GRADING DESCRIBED ON THE PLAN. THE COUNTY WILL HOLD THE PERMITTEE RESPONSIBLE FOR CORRECTION OF NON-DEDICATED IMPROVEMENTS WHICH DAMAGE ADJACENT PROPERTY.
10. SPECIAL CONDITION: IF ANY ARCHEOLOGICAL RESOURCES ARE DISCOVERED ON THE SITE OF THIS GRADING OPERATION, SUCH OPERATION WILL CEASE IMMEDIATELY AND THE PERMITTEE WILL NOTIFY THE DIRECTOR OF THE PLANNING & DEVELOPMENT SERVICES DEPARTMENT AND THE DISCOVERY. GRADING OPERATION WILL NOT RECOMMENCE UNTIL THE PERMITTEE HAS RECEIVED WRITTEN AUTHORITY FROM THE DIRECTOR OF PLANNING & DEVELOPMENT SERVICES TO DO SO.
11. ALL GRADING SHALL CONFORM TO THE UNIFORM BUILDING CODE APPENDIX CHAP. 33, AS AMENDED BY TITLE 9 LAND USE ORDINANCE.
12. ALL PROPERTY CORNERS SHALL BE CLEARLY DELINEATED IN THE FIELD PRIOR TO THE COMMENCEMENT OF ANY CONSTRUCTION AND/OR GRADING.
13. DURING ROUGH GRADING OPERATIONS, IF NECESSARY, TEMPORARY DRAINAGE CONTROL SHALL BE PROVIDED TO PREVENT PONDING WATER AND DAMAGE TO CONTIGUOUS PROPERTIES.
14. DUST SHALL BE CONTROLLED IN ACCORDANCE WITH THE APPROVED PM10 PLAN. APPROVAL SHALL BE BY IMPERIAL COUNTY AIR POLLUTION CONTROL DISTRICT.
15. NO FILL SHALL BE PLACED ON EXISTING GROUND UNTIL THE EXISTING GROUND HAS BEEN CLEARED OF WEEDS, DEBRIS, TOPSOIL AND OTHER DELITERIOUS MATERIAL.
16. THE MAXIMUM ALLOWABLE CUT AND FILL SLOPES ARE 2:1, UNLESS A SLOPE STABILITY ANALYSIS AUTHORIZES A STEEPER SLOPE AND HAS BEEN APPROVED.
17. A 5' WIDE BY 1' HIGH BERM, OR EQUIVALENT, SHALL BE CONSTRUCTED ALONG THE TOP OF ALL FILL SLOPES OVER 5' IN VERTICAL HEIGHT. ALL SLOPES LESS THAN OR EQUAL TO 5' SHALL HAVE A BERM TO PREVENT DRAINAGE FROM ERODING SAME.
18. A BROW DITCH DESIGNED TO HANDLE THE FLOWS (Q) FROM A 100-YR. STORM EVENT SHALL BE CONSTRUCTED ALONG THE TOP OF ALL CUT SLOPES.
19. NO OBSTRUCTION OF FLOOD PLAINS OR NATURAL WATER COURSES WILL BE PERMITTED.
20. ALL EXISTING DRAINAGE COURSES ON THE PROJECT SITE MUST CONTINUE TO FUNCTION DURING STORM CONDITIONS. PROTECTIVE MEASURES AND TEMPORARY DRAINAGE PROVISIONS MUST BE USED TO PROTECT CONTIGUOUS PROPERTIES DURING GRADING OPERATIONS.
21. A QUALIFIED AND REGISTERED PROFESSIONAL ENGINEER SHALL SUBMIT A WRITTEN CERTIFICATION TO THE PUBLIC WORKS DEPARTMENT THAT THE FINAL GRADING HAS BEEN COMPLETED IN ACCORDANCE WITH THE APPROVED PLANS FOR ALL GRADING DESIGNATED AS "ENGINEERED GRADING". AS-BUILT PLANS SHALL BE PROVIDED PRIOR TO FINAL ACCEPTANCE.
22. THE CONTRACTOR SHALL NOTIFY THE PUBLIC WORKS DEPARTMENT AT LEAST 48 HOURS IN ADVANCE OF REQUESTING A FINISH LOT GRADE AND DRAINAGE INSPECTION. THIS INSPECTION MUST BE APPROVED PRIOR TO THE BUILDING PERMIT FINAL INSPECTION BY PUBLIC WORKS FOR EACH LOT.
23. THE CONTRACTOR SHALL NOTIFY "UNDERGROUND SERVICE ALERT" AT 811 (FORMERLY (800) 422-4133) A MINIMUM OF TWO DAYS PRIOR TO THE COMMENCEMENT OF ANY DIGGING OR EXCAVATION.

DWG. NO.

REV.	DATE	REVISION DESCRIPTION	BY	DESIGNED BY:	AET
				DRAWN BY:	RSP
				APPROVED BY:	DB
				DRAWING:	
				PLOT DATE:	10/20/2025



CITY OF HOLTVILLE
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 HOLTVILLE, CALIFORNIA 92250

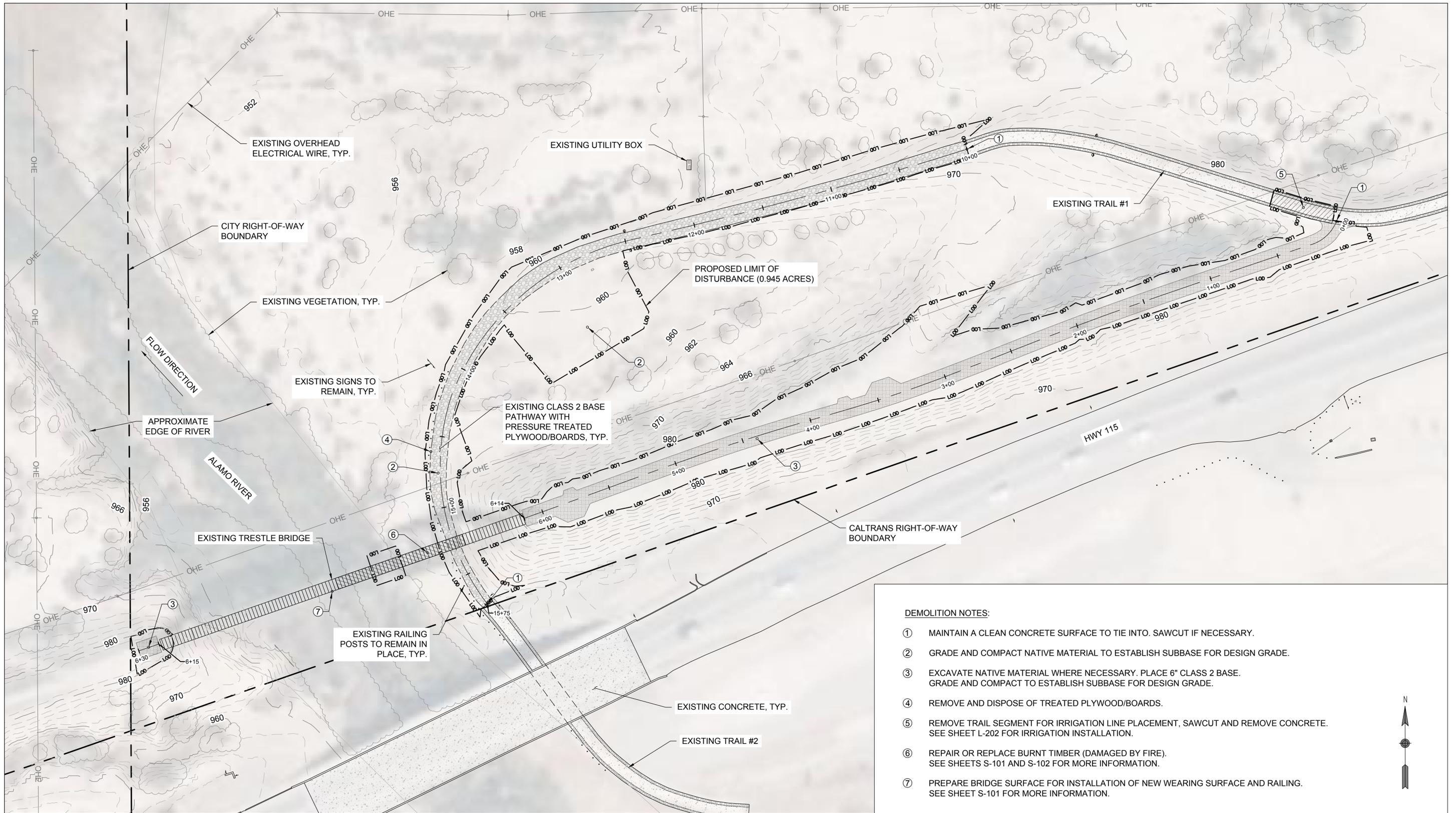


**ALAMO RIVER TRESTLE
 BRIDGE MODIFICATIONS
 HOLTVILLE, CALIFORNIA**

**GRADING
 NOTES**

G-002

SHEET 3 OF 41



DEMOLITION NOTES:

- ① MAINTAIN A CLEAN CONCRETE SURFACE TO TIE INTO. SAWCUT IF NECESSARY.
- ② GRADE AND COMPACT NATIVE MATERIAL TO ESTABLISH SUBBASE FOR DESIGN GRADE.
- ③ EXCAVATE NATIVE MATERIAL WHERE NECESSARY. PLACE 6" CLASS 2 BASE. GRADE AND COMPACT TO ESTABLISH SUBBASE FOR DESIGN GRADE.
- ④ REMOVE AND DISPOSE OF TREATED PLYWOOD/BOARDS.
- ⑤ REMOVE TRAIL SEGMENT FOR IRRIGATION LINE PLACEMENT, SAWCUT AND REMOVE CONCRETE. SEE SHEET L-202 FOR IRRIGATION INSTALLATION.
- ⑥ REPAIR OR REPLACE BURNT TIMBER (DAMAGED BY FIRE). SEE SHEETS S-101 AND S-102 FOR MORE INFORMATION.
- ⑦ PREPARE BRIDGE SURFACE FOR INSTALLATION OF NEW WEARING SURFACE AND RAILING. SEE SHEET S-101 FOR MORE INFORMATION.



NOTE: THE CONTRACTOR SHALL VERIFY ALL CONTROLLING FIELD DIMENSIONS BEFORE ORDERING OR FABRICATING ANY MATERIAL.

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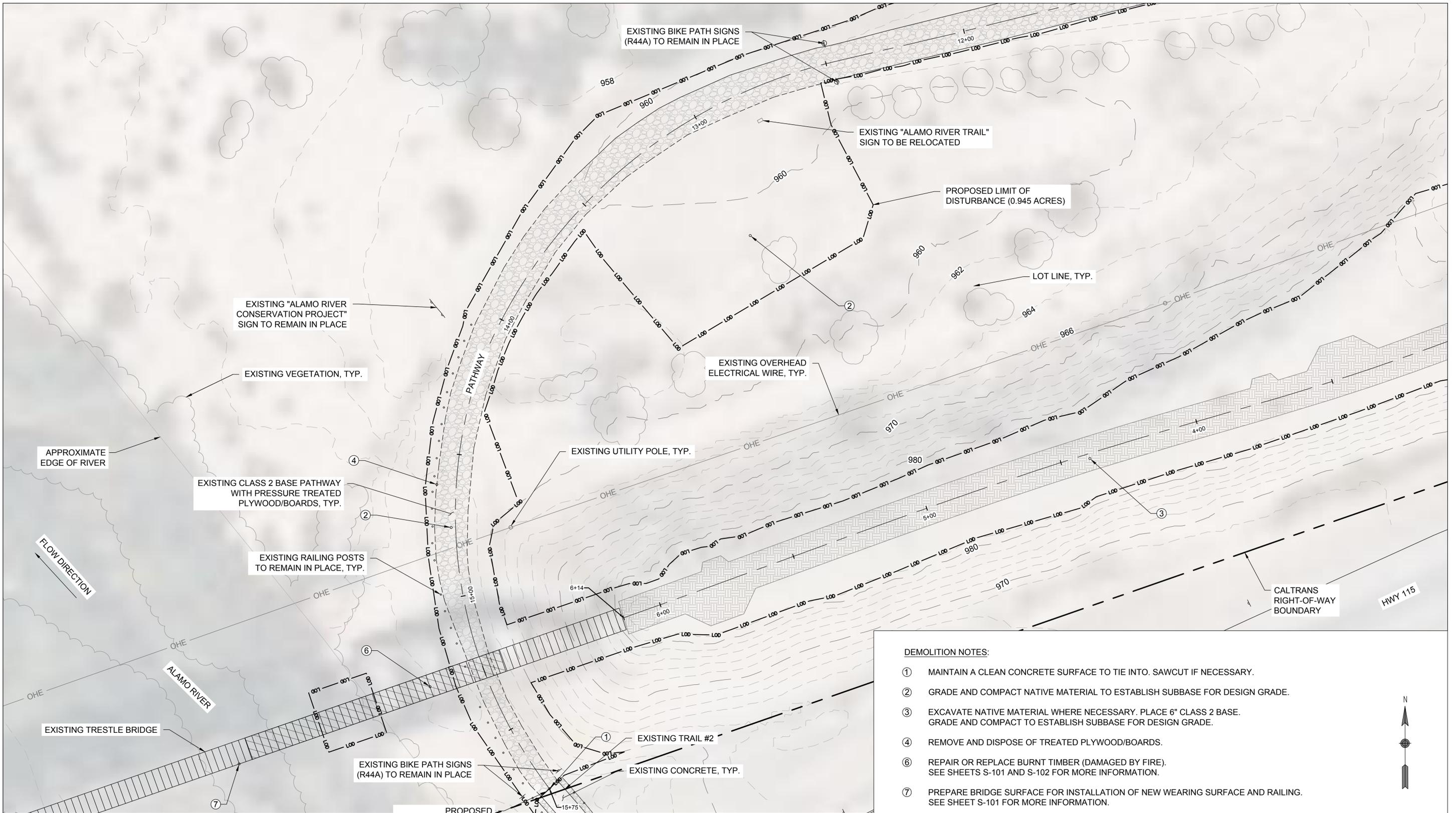


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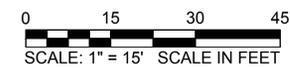
**ALAMO RIVER TRESTLE
BRIDGE MODIFICATIONS
HOLTVILLE, CALIFORNIA**

DWG. NO.	C-101
EXISTING CONDITIONS	SHEET 4 OF 41



DEMOLITION NOTES:

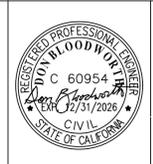
- ① MAINTAIN A CLEAN CONCRETE SURFACE TO TIE INTO. SAWCUT IF NECESSARY.
- ② GRADE AND COMPACT NATIVE MATERIAL TO ESTABLISH SUBBASE FOR DESIGN GRADE.
- ③ EXCAVATE NATIVE MATERIAL WHERE NECESSARY. PLACE 6" CLASS 2 BASE. GRADE AND COMPACT TO ESTABLISH SUBBASE FOR DESIGN GRADE.
- ④ REMOVE AND DISPOSE OF TREATED PLYWOOD/BOARDS.
- ⑥ REPAIR OR REPLACE BURNT TIMBER (DAMAGED BY FIRE). SEE SHEETS S-101 AND S-102 FOR MORE INFORMATION.
- ⑦ PREPARE BRIDGE SURFACE FOR INSTALLATION OF NEW WEARING SURFACE AND RAILING. SEE SHEET S-101 FOR MORE INFORMATION.



NOTE: THE CONTRACTOR SHALL VERIFY ALL CONTROLLING FIELD DIMENSIONS BEFORE ORDERING OR FABRICATING ANY MATERIAL.

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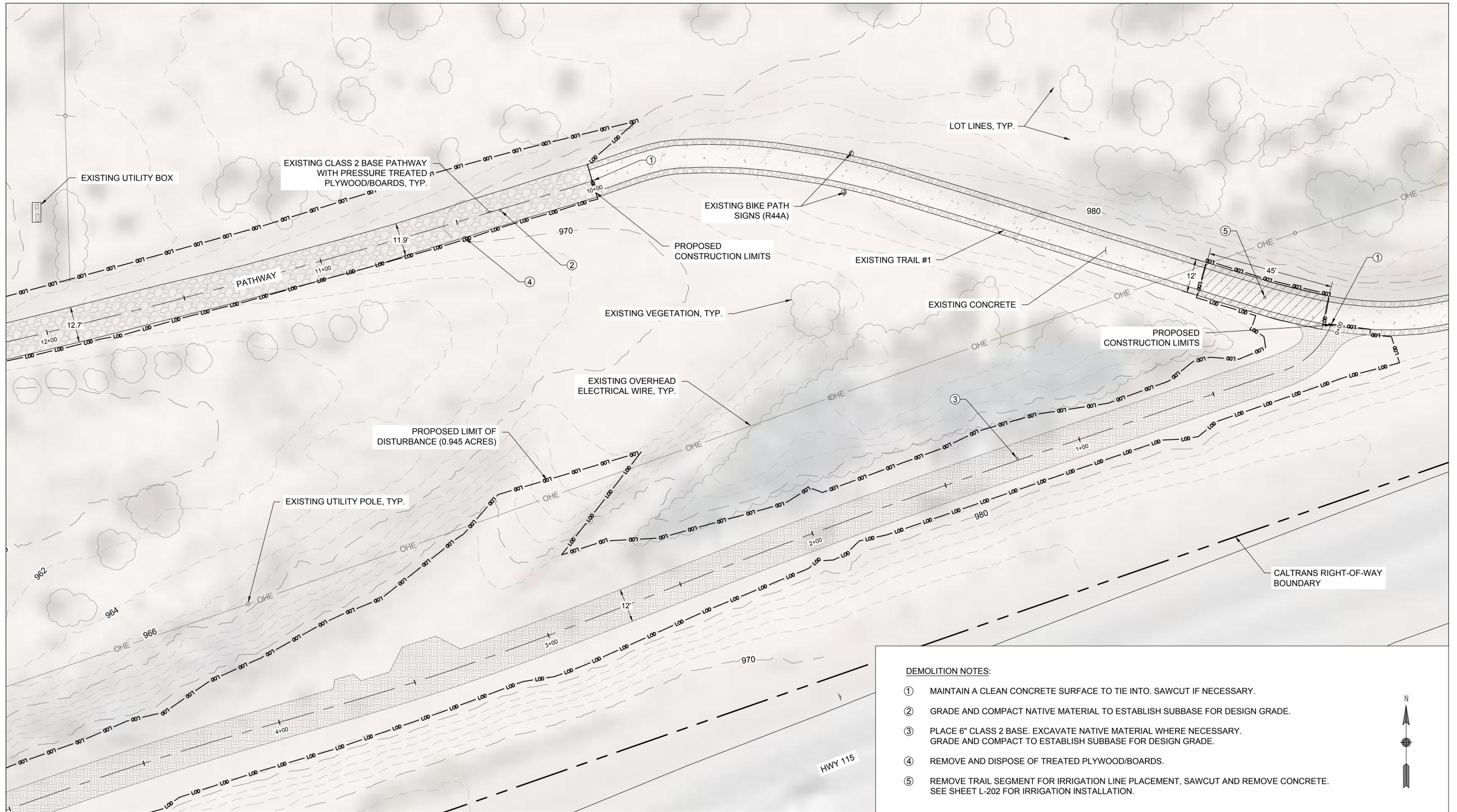
**ALAMO RIVER TRESTLE
BRIDGE MODIFICATIONS
HOLTVILLE, CALIFORNIA**

**EXISTING
CONDITIONS -
PATHWAY (WEST)**

DWG. NO.

C-102

SHEET 5 OF 41



DEMOLITION NOTES:

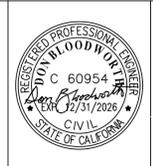
- ① MAINTAIN A CLEAN CONCRETE SURFACE TO TIE INTO. SAWCUT IF NECESSARY.
- ② GRADE AND COMPACT NATIVE MATERIAL TO ESTABLISH SUBBASE FOR DESIGN GRADE.
- ③ PLACE 6" CLASS 2 BASE. EXCAVATE NATIVE MATERIAL WHERE NECESSARY. GRADE AND COMPACT TO ESTABLISH SUBBASE FOR DESIGN GRADE.
- ④ REMOVE AND DISPOSE OF TREATED PLYWOOD/BOARDS.
- ⑤ REMOVE TRAIL SEGMENT FOR IRRIGATION LINE PLACEMENT, SAWCUT AND REMOVE CONCRETE. SEE SHEET L-202 FOR IRRIGATION INSTALLATION.



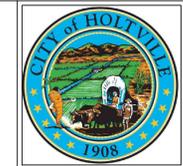
NOTE: THE CONTRACTOR SHALL VERIFY ALL CONTROLLING FIELD DIMENSIONS BEFORE ORDERING OR FABRICATING ANY MATERIAL.

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**ALAMO RIVER TRESTLE
BRIDGE MODIFICATIONS
HOLTVILLE, CALIFORNIA**

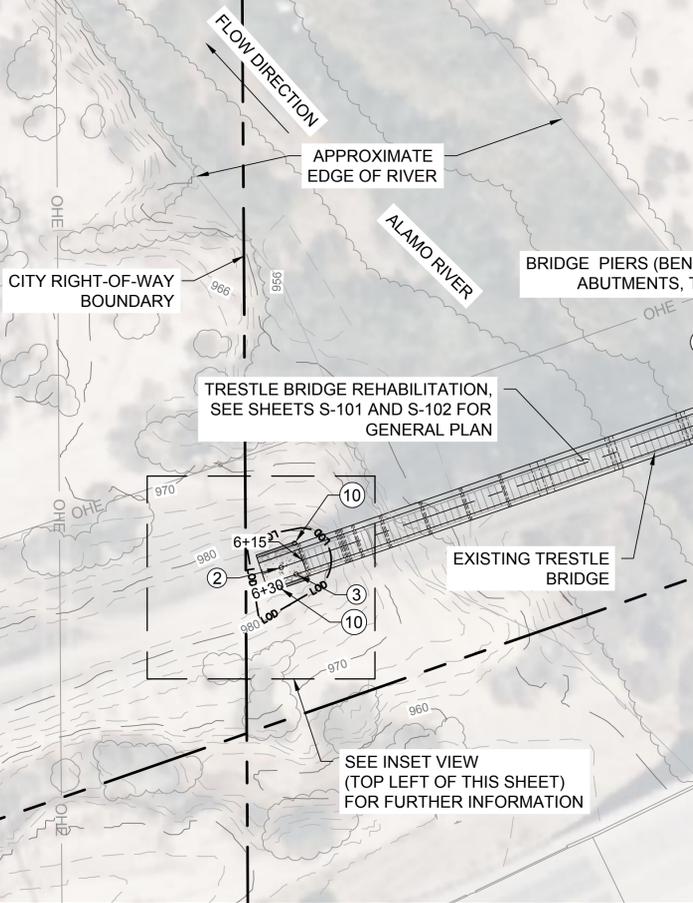
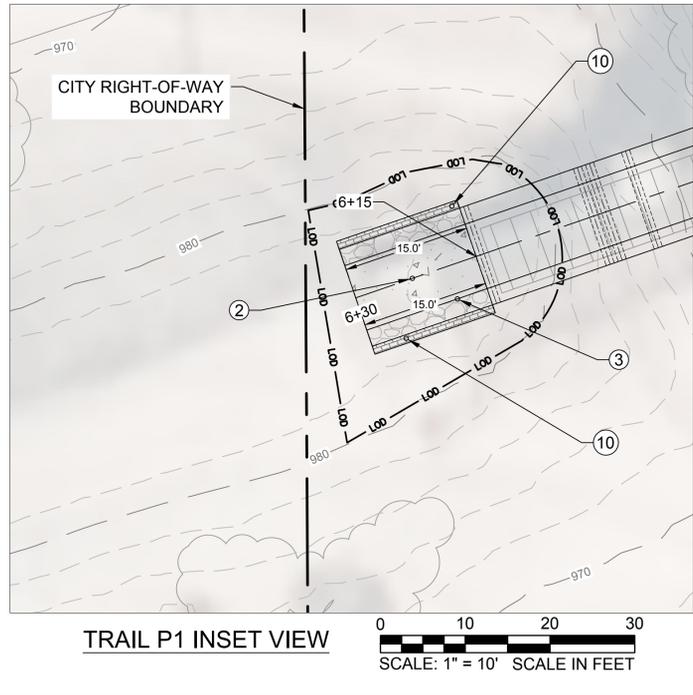
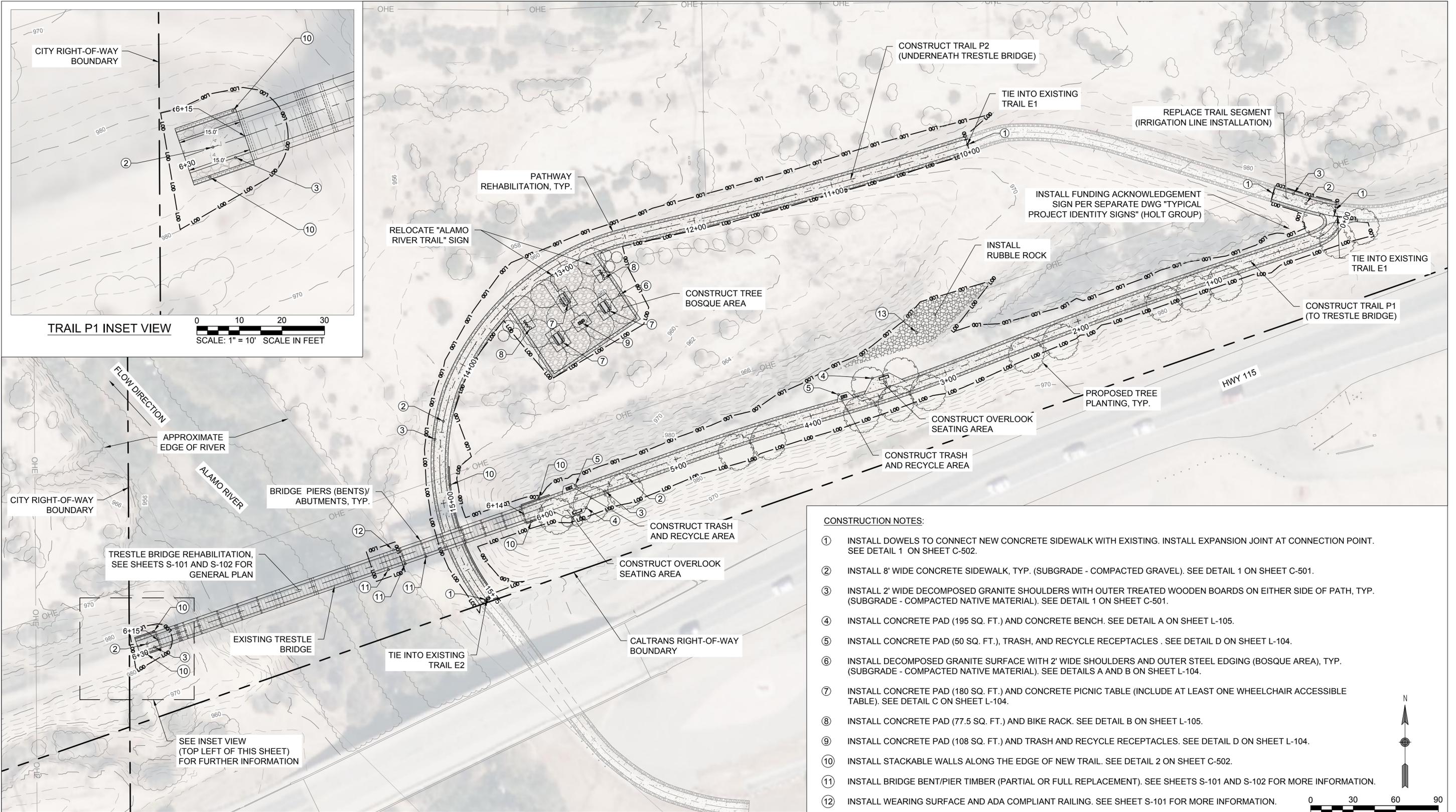
**EXISTING
CONDITIONS -
PATHWAY (EAST)**

DWG. NO.

C-103

SHEET 6 OF 41

ISSUED FOR CONSTRUCTION PLANS



- CONSTRUCTION NOTES:**
- ① INSTALL DOWELS TO CONNECT NEW CONCRETE SIDEWALK WITH EXISTING. INSTALL EXPANSION JOINT AT CONNECTION POINT. SEE DETAIL 1 ON SHEET C-502.
 - ② INSTALL 8' WIDE CONCRETE SIDEWALK, TYP. (SUBGRADE - COMPACTED GRAVEL). SEE DETAIL 1 ON SHEET C-501.
 - ③ INSTALL 2' WIDE DECOMPOSED GRANITE SHOULDERS WITH OUTER TREATED WOODEN BOARDS ON EITHER SIDE OF PATH, TYP. (SUBGRADE - COMPACTED NATIVE MATERIAL). SEE DETAIL 1 ON SHEET C-501.
 - ④ INSTALL CONCRETE PAD (195 SQ. FT.) AND CONCRETE BENCH. SEE DETAIL A ON SHEET L-105.
 - ⑤ INSTALL CONCRETE PAD (50 SQ. FT.), TRASH, AND RECYCLE RECEPTACLES. SEE DETAIL D ON SHEET L-104.
 - ⑥ INSTALL DECOMPOSED GRANITE SURFACE WITH 2' WIDE SHOULDERS AND OUTER STEEL EDGING (BOSQUE AREA), TYP. (SUBGRADE - COMPACTED NATIVE MATERIAL). SEE DETAILS A AND B ON SHEET L-104.
 - ⑦ INSTALL CONCRETE PAD (180 SQ. FT.) AND CONCRETE PICNIC TABLE (INCLUDE AT LEAST ONE WHEELCHAIR ACCESSIBLE TABLE). SEE DETAIL C ON SHEET L-104.
 - ⑧ INSTALL CONCRETE PAD (77.5 SQ. FT.) AND BIKE RACK. SEE DETAIL B ON SHEET L-105.
 - ⑨ INSTALL CONCRETE PAD (108 SQ. FT.) AND TRASH AND RECYCLE RECEPTACLES. SEE DETAIL D ON SHEET L-104.
 - ⑩ INSTALL STACKABLE WALLS ALONG THE EDGE OF NEW TRAIL. SEE DETAIL 2 ON SHEET C-502.
 - ⑪ INSTALL BRIDGE BENT/PIER TIMBER (PARTIAL OR FULL REPLACEMENT). SEE SHEETS S-101 AND S-102 FOR MORE INFORMATION.
 - ⑫ INSTALL WEARING SURFACE AND ADA COMPLIANT RAILING. SEE SHEET S-101 FOR MORE INFORMATION.
 - ⑬ FOR RUBBLE ROCK INSTALLATION, UTILIZE ON-SITE PRODUCED CONCRETE BLOCKS (FROM REMOVAL), MAX SIZE OF 1 FT. ROCK AREA DIMENSIONS TO BE SIZED IN-FIELD.

NOTE: THE CONTRACTOR SHALL VERIFY ALL CONTROLLING FIELD DIMENSIONS BEFORE ORDERING OR FABRICATING ANY MATERIAL.

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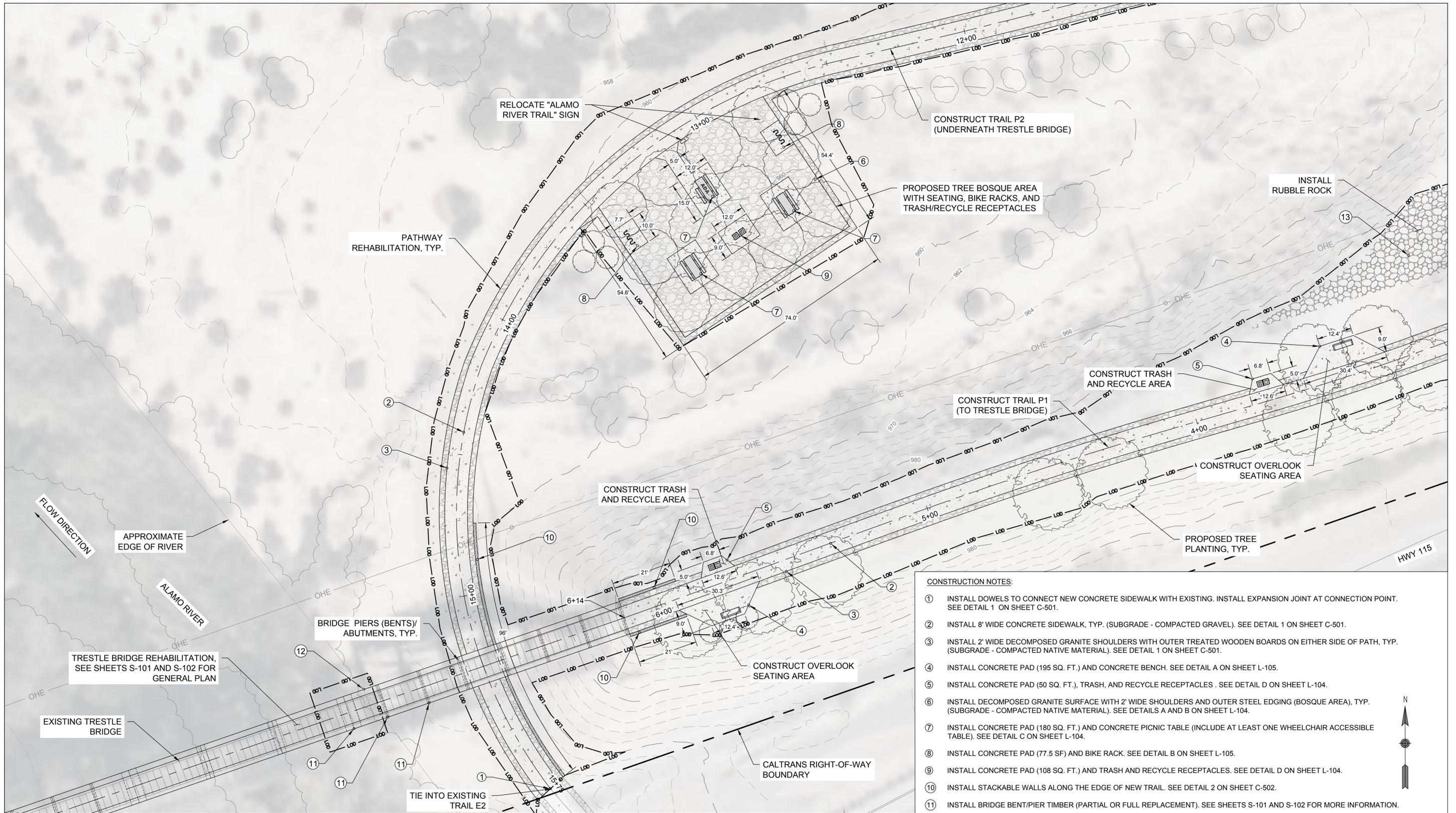
**ALAMO RIVER TRESTLE
BRIDGE MODIFICATIONS
HOLTVILLE, CALIFORNIA**

**PROPOSED
SITE PLAN**

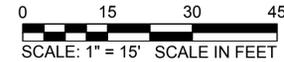
C-201

SHEET 7 OF 41

DWG. NO.



NOTE: THE CONTRACTOR SHALL VERIFY ALL CONTROLLING FIELD DIMENSIONS BEFORE ORDERING OR FABRICATING ANY MATERIAL.

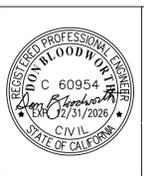


- CONSTRUCTION NOTES:**
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 - ⑤ INSTALL CONCRETE PAD (60 SQ. FT.), TRASH, AND RECYCLE RECEPTACLES. SEE DETAIL D ON SHEET L-104.
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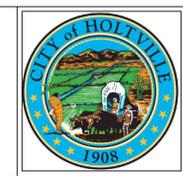
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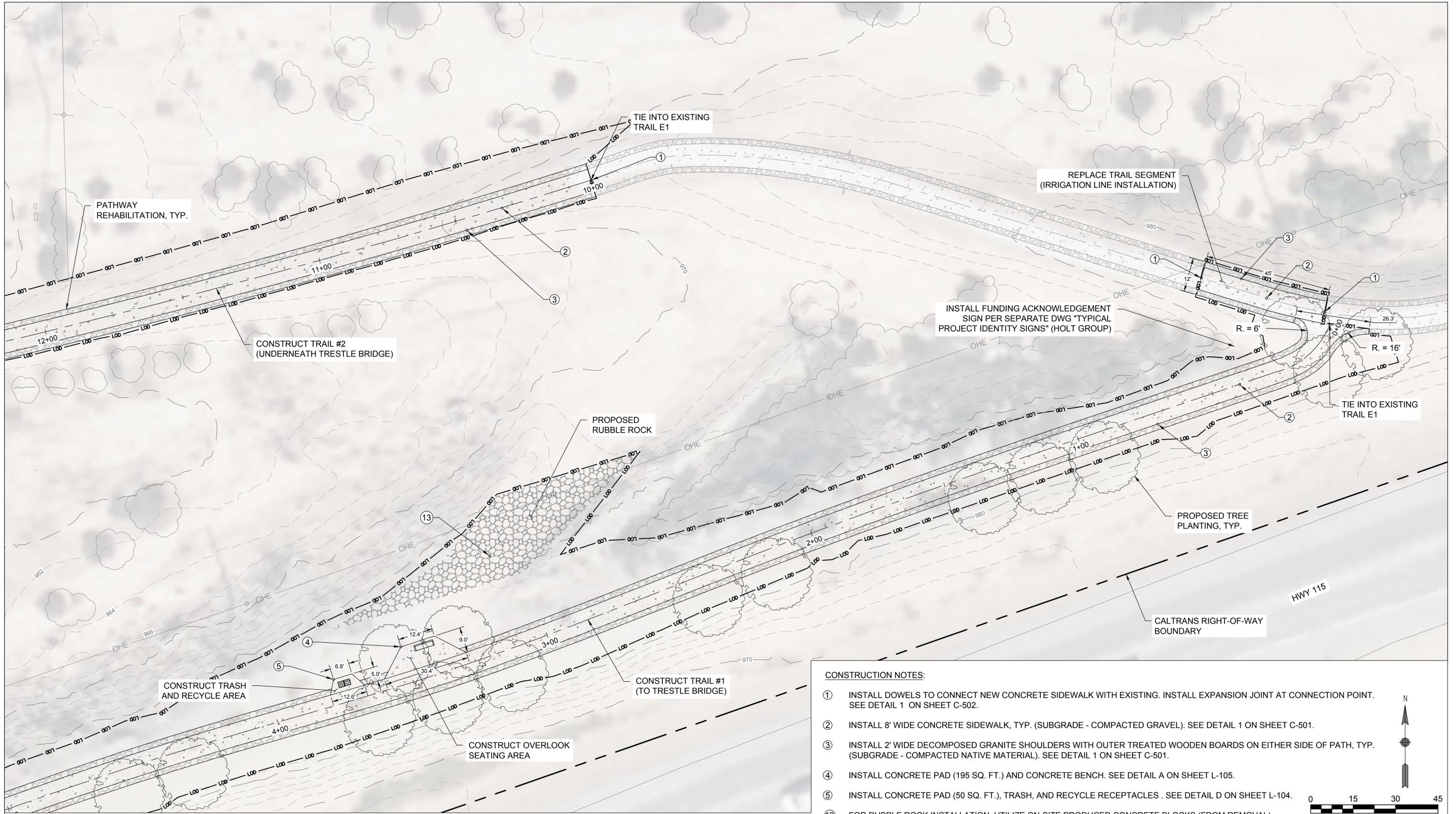
**ALAMO RIVER TRESTLE
BRIDGE MODIFICATIONS
HOLTVILLE, CALIFORNIA**

**PROPOSED SITE
PLAN - PATHWAY
(WEST)**

DWG. NO.

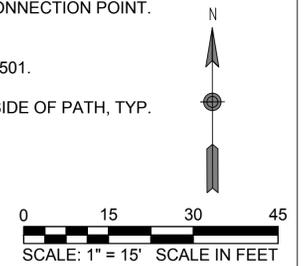
C-202

SHEET 8 OF 41



NOTE: THE CONTRACTOR SHALL VERIFY ALL CONTROLLING FIELD DIMENSIONS BEFORE ORDERING OR FABRICATING ANY MATERIAL.

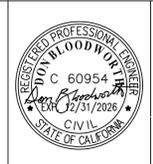
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 - ⑤ INSTALL CONCRETE PAD (50 SQ. FT.), TRASH, AND RECYCLE RECEPTACLES. SEE DETAIL D ON SHEET L-104.
 - ⑬ FOR RUBBLE ROCK INSTALLATION, UTILIZE ON-SITE PRODUCED CONCRETE BLOCKS (FROM REMOVAL), MAX SIZE OF 1 FT. ROCK AREA DIMENSIONS TO BE SIZED IN-FIELD.



DWG. NO.

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**ALAMO RIVER TRESTLE
BRIDGE MODIFICATIONS
HOLTVILLE, CALIFORNIA**

**PROPOSED SITE
PLAN - PATHWAY
(EAST)**

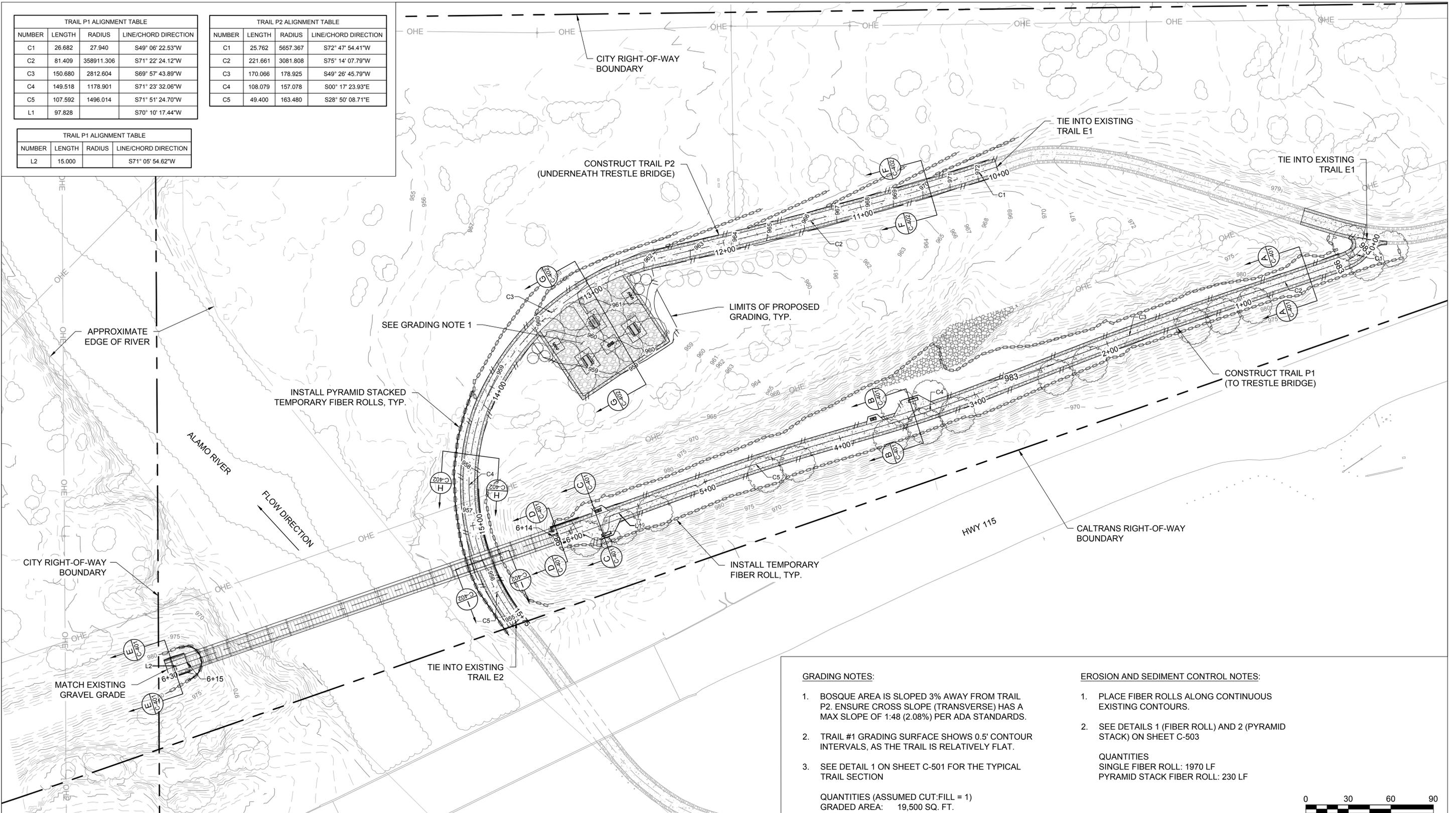
C-203
SHEET 9 OF 41

ISSUED FOR CONSTRUCTION PLANS

TRAIL P1 ALIGNMENT TABLE			
NUMBER	LENGTH	RADIUS	LINE/CHORD DIRECTION
C1	26.682	27.940	S49° 06' 22.53"W
C2	81.409	358911.306	S71° 22' 24.12"W
C3	150.680	2812.604	S69° 57' 43.89"W
C4	149.518	1178.901	S71° 23' 32.06"W
C5	107.592	1496.014	S71° 51' 24.70"W
L1	97.828		S70° 10' 17.44"W

TRAIL P2 ALIGNMENT TABLE			
NUMBER	LENGTH	RADIUS	LINE/CHORD DIRECTION
C1	25.762	5657.367	S72° 47' 54.41"W
C2	221.661	3081.808	S75° 14' 07.79"W
C3	170.066	178.925	S49° 26' 45.79"W
C4	108.079	157.078	S00° 17' 23.93"E
C5	49.400	163.480	S28° 50' 08.71"E

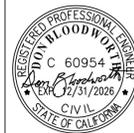
TRAIL P1 ALIGNMENT TABLE			
NUMBER	LENGTH	RADIUS	LINE/CHORD DIRECTION
L2	15.000		S71° 05' 54.62"W



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**ALAMO RIVER TRESTLE
BRIDGE MODIFICATIONS
HOLTVILLE, CALIFORNIA**

**GRADING AND
E&S PLAN**

C-301
SHEET 10 OF 41

GRADING NOTES:

- BOSQUE AREA IS SLOPED 3% AWAY FROM TRAIL P2. ENSURE CROSS SLOPE (TRANSVERSE) HAS A MAX SLOPE OF 1:48 (2.08%) PER ADA STANDARDS.
- TRAIL #1 GRADING SURFACE SHOWS 0.5' CONTOUR INTERVALS, AS THE TRAIL IS RELATIVELY FLAT.
- SEE DETAIL 1 ON SHEET C-501 FOR THE TYPICAL TRAIL SECTION

QUANTITIES (ASSUMED CUT:FILL = 1)
GRADED AREA: 19,500 SQ. FT.
CUT: 14.1 CYD
FILL: 88.5 CYD
NET: 74.4 CYD (FILL)

EROSION AND SEDIMENT CONTROL NOTES:

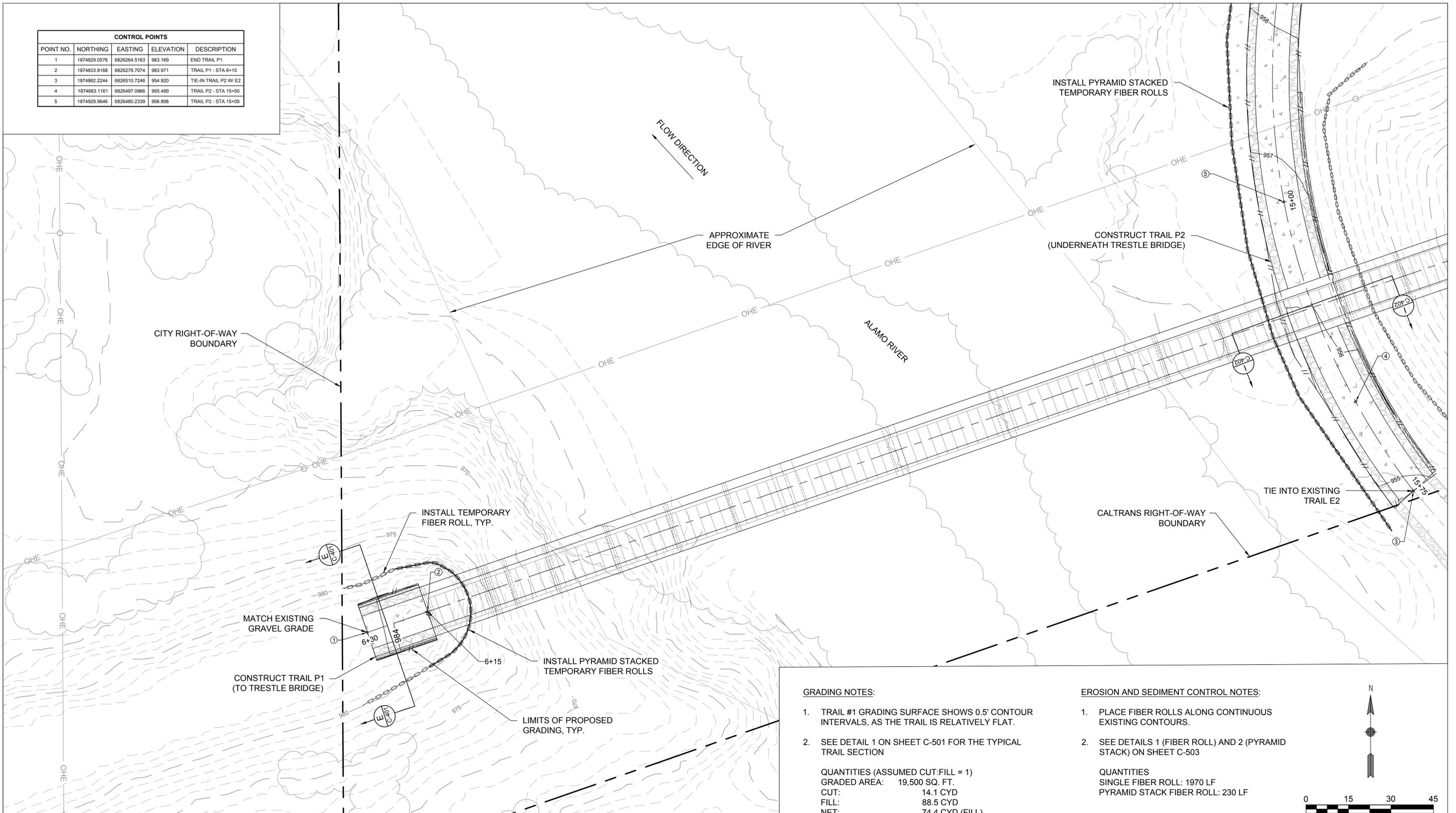
- PLACE FIBER ROLLS ALONG CONTINUOUS EXISTING CONTOURS.
- SEE DETAILS 1 (FIBER ROLL) AND 2 (PYRAMID STACK) ON SHEET C-503

QUANTITIES
SINGLE FIBER ROLL: 1970 LF
PYRAMID STACK FIBER ROLL: 230 LF



DWG. NO.

CONTROL POINTS				
POINT NO.	NORTHING	EASTING	ELEVATION	DESCRIPTION
1	1874829.0576	6826264.5163	983.189	END TRAIL P1
2	1874833.9168	6826278.7074	983.971	TRAIL P1 - STA 6+15
3	1874862.2244	6826510.7246	954.920	TIE-IN TRAIL P2 W/ E2
4	1874883.1161	6826497.0966	955.489	TRAIL P2 - STA 15+50
5	1874929.9646	6826480.2339	956.898	TRAIL P2 - STA 15+00



GRADING NOTES:

- TRAIL #1 GRADING SURFACE SHOWS 0.5' CONTOUR INTERVALS, AS THE TRAIL IS RELATIVELY FLAT.
- SEE DETAIL 1 ON SHEET C-501 FOR THE TYPICAL TRAIL SECTION

QUANTITIES (ASSUMED CUT:FILL = 1)
 GRADED AREA: 19,500 SQ. FT.
 CUT: 14.1 CYD
 FILL: 88.5 CYD
 NET: 74.4 CYD (FILL)

EROSION AND SEDIMENT CONTROL NOTES:

- PLACE FIBER ROLLS ALONG CONTINUOUS EXISTING CONTOURS.
- SEE DETAILS 1 (FIBER ROLL) AND 2 (PYRAMID STACK) ON SHEET C-503

QUANTITIES
 SINGLE FIBER ROLL: 1970 LF
 PYRAMID STACK FIBER ROLL: 230 LF

NOTE: THE CONTRACTOR SHALL VERIFY ALL CONTROLLING FIELD DIMENSIONS BEFORE ORDERING OR FABRICATING ANY MATERIAL.

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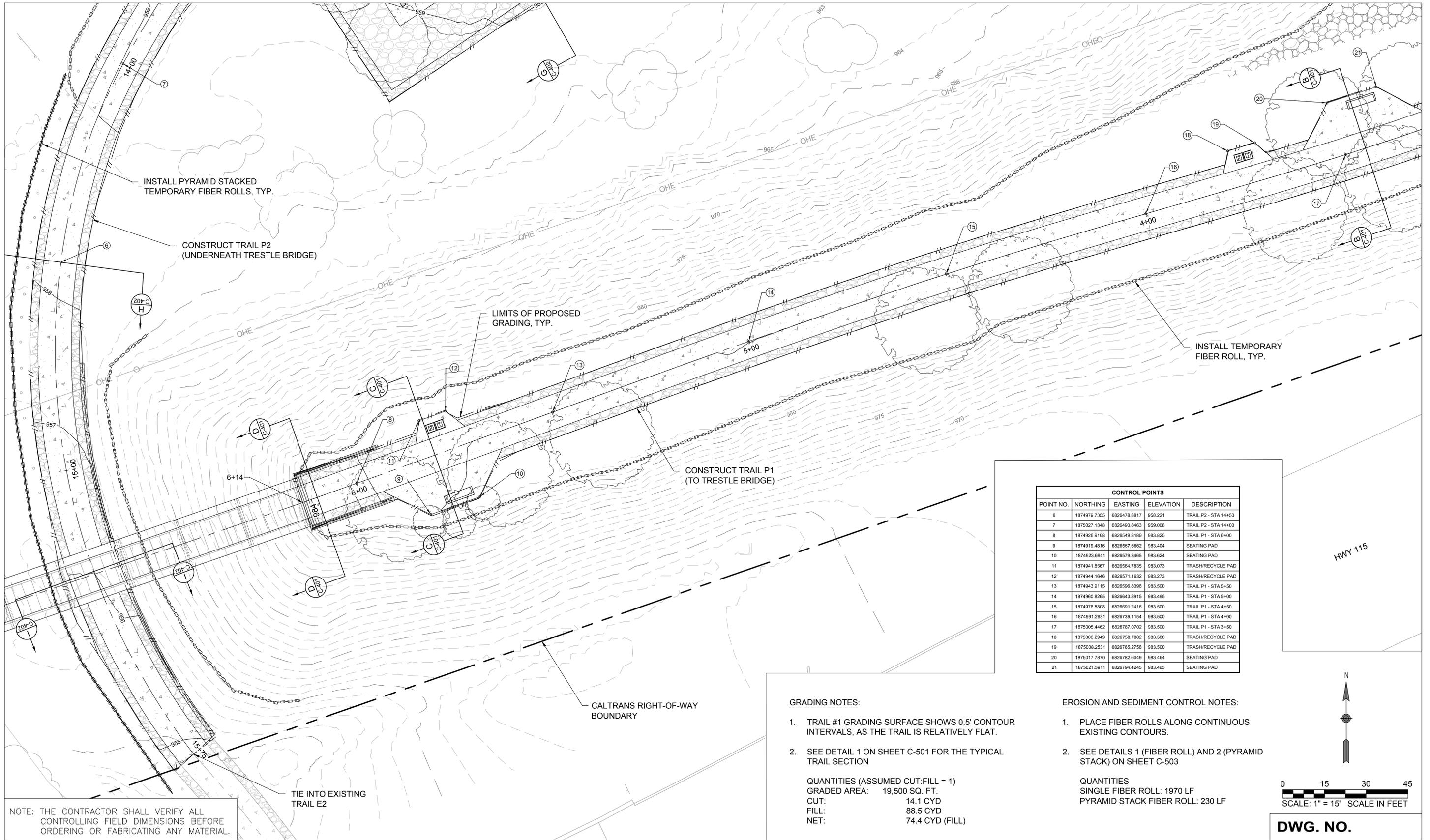
**ALAMO RIVER TRESTLE
 BRIDGE MODIFICATIONS
 HOLTVILLE, CALIFORNIA**

**GRADING AND
 E&S DETAILED
 PLAN NO. 1**

DWG. NO.

C-302

SHEET 11 OF 41



CONTROL POINTS				
POINT NO.	NORTHING	EASTING	ELEVATION	DESCRIPTION
6	1874979.7355	6826478.8817	958.221	TRAIL P2 - STA 14+50
7	1875027.1348	6826493.8463	959.008	TRAIL P2 - STA 14+00
8	1874926.9108	6826549.8189	983.825	TRAIL P1 - STA 6+00
9	1874919.4816	6826567.6662	983.404	SEATING PAD
10	1874923.6941	6826579.3465	983.624	SEATING PAD
11	1874941.8567	6826564.7835	983.073	TRASH/RECYCLE PAD
12	1874944.1646	6826571.1632	983.273	TRASH/RECYCLE PAD
13	1874943.9115	6826596.8398	983.500	TRAIL P1 - STA 5+50
14	1874960.8265	6826643.8915	983.495	TRAIL P1 - STA 5+00
15	1874976.8808	6826691.2416	983.500	TRAIL P1 - STA 4+50
16	1874991.2981	6826739.1154	983.500	TRAIL P1 - STA 4+00
17	1875005.4462	6826787.0702	983.500	TRAIL P1 - STA 3+50
18	1875006.2949	6826758.7802	983.500	TRASH/RECYCLE PAD
19	1875008.2531	6826765.2758	983.500	TRASH/RECYCLE PAD
20	1875017.7870	6826782.6049	983.464	SEATING PAD
21	1875021.5911	6826794.4245	983.465	SEATING PAD

GRADING NOTES:

- TRAIL #1 GRADING SURFACE SHOWS 0.5' CONTOUR INTERVALS, AS THE TRAIL IS RELATIVELY FLAT.
- SEE DETAIL 1 ON SHEET C-501 FOR THE TYPICAL TRAIL SECTION

QUANTITIES (ASSUMED CUT:FILL = 1)
 GRADED AREA: 19,500 SQ. FT.
 CUT: 14.1 CYD
 FILL: 88.5 CYD
 NET: 74.4 CYD (FILL)

EROSION AND SEDIMENT CONTROL NOTES:

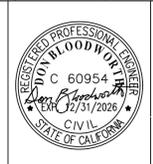
- PLACE FIBER ROLLS ALONG CONTINUOUS EXISTING CONTOURS.
- SEE DETAILS 1 (FIBER ROLL) AND 2 (PYRAMID STACK) ON SHEET C-503

QUANTITIES
 SINGLE FIBER ROLL: 1970 LF
 PYRAMID STACK FIBER ROLL: 230 LF

NOTE: THE CONTRACTOR SHALL VERIFY ALL CONTROLLING FIELD DIMENSIONS BEFORE ORDERING OR FABRICATING ANY MATERIAL.

REV.	DATE	REVISION DESCRIPTION	BY	DESIGNED BY:	AET
				DRAWN BY:	RSP
				APPROVED BY:	DB
				DRAWING:	
				PLOT DATE:	10/20/2025

770 First Avenue, Suite 400 San Diego, CA 92101
 Tel. (619) 831-4600 Fax. (619) 232-1039



CITY OF HOLTVILLE
 121 W. 5TH STREET
 HOLTVILLE, CALIFORNIA 92250

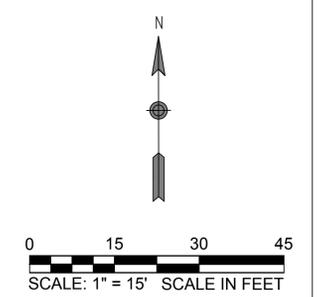


**ALAMO RIVER TRESTLE
 BRIDGE MODIFICATIONS
 HOLTVILLE, CALIFORNIA**

**GRADING AND
 E&S DETAILED
 PLAN NO. 2**

C-303

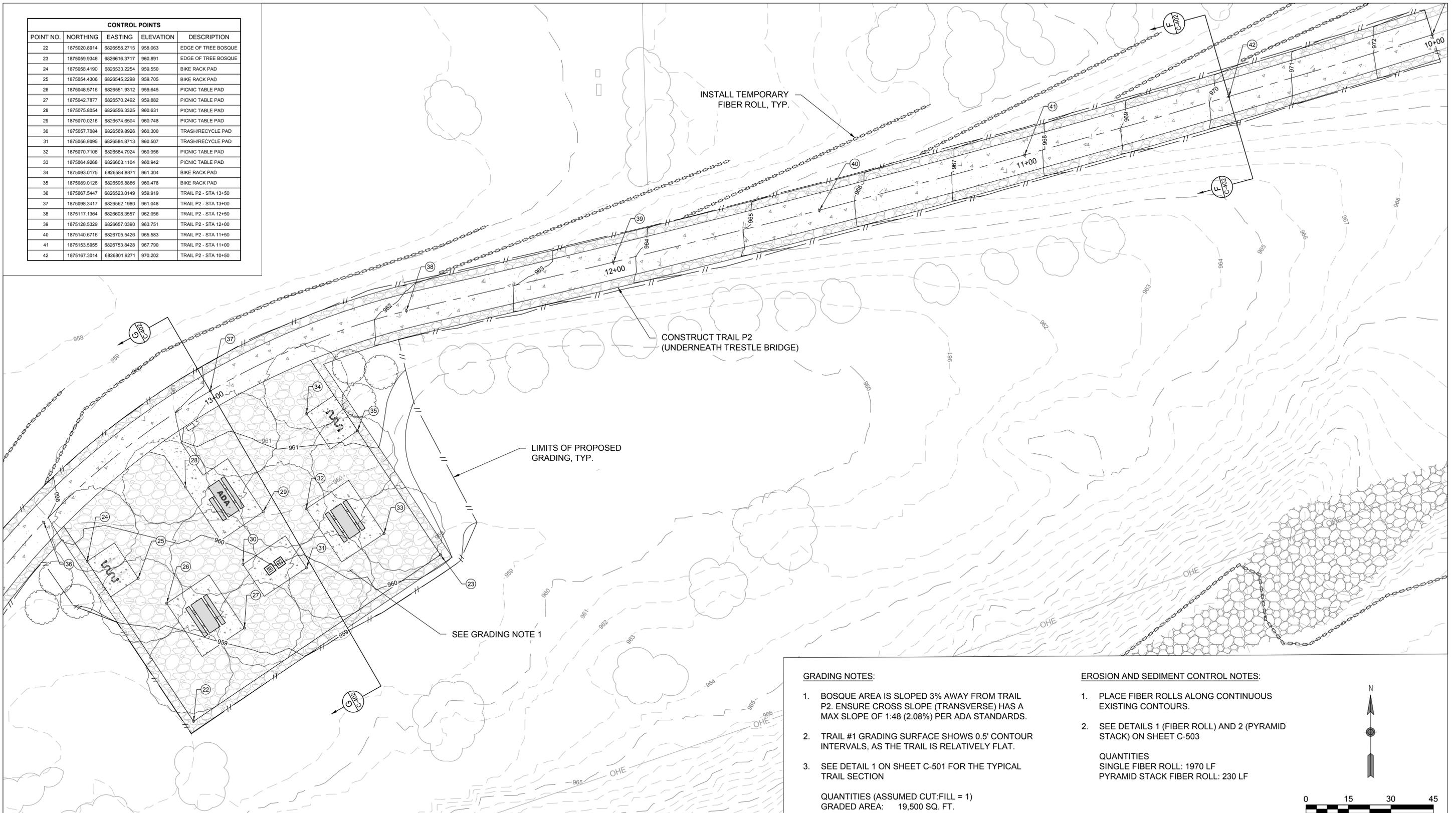
SHEET 12 OF 41



DWG. NO.

ISSUED FOR CONSTRUCTION PLANS

CONTROL POINTS				
POINT NO.	NORTHING	EASTING	ELEVATION	DESCRIPTION
22	1875020.8914	6826558.2715	958.063	EDGE OF TREE BOSQUE
23	1875059.9346	6826616.3717	960.891	EDGE OF TREE BOSQUE
24	1875058.4190	6826533.2254	959.550	BIKE RACK PAD
25	1875054.4306	6826545.2298	959.705	BIKE RACK PAD
26	1875048.5716	6826551.9312	959.645	PICNIC TABLE PAD
27	1875042.7877	6826570.2492	959.882	PICNIC TABLE PAD
28	1875075.8054	6826556.3325	960.631	PICNIC TABLE PAD
29	1875070.0216	6826574.6504	960.748	PICNIC TABLE PAD
30	1875057.7084	6826569.8926	960.300	TRASH/RECYCLE PAD
31	1875056.9095	6826584.8713	960.507	TRASH/RECYCLE PAD
32	1875070.7106	6826584.7924	960.956	PICNIC TABLE PAD
33	1875064.9268	6826603.1104	960.942	PICNIC TABLE PAD
34	1875093.0175	6826584.8871	961.304	BIKE RACK PAD
35	1875089.0126	6826596.8866	960.478	BIKE RACK PAD
36	1875067.5447	6826523.0149	959.919	TRAIL P2 - STA 13+50
37	1875098.3417	6826562.1980	961.048	TRAIL P2 - STA 13+00
38	1875117.1364	6826608.3557	962.056	TRAIL P2 - STA 12+50
39	1875128.5329	6826657.0390	963.751	TRAIL P2 - STA 12+00
40	1875140.6716	6826705.5426	965.583	TRAIL P2 - STA 11+50
41	1875153.5955	6826753.8428	967.790	TRAIL P2 - STA 11+00
42	1875167.3014	6826801.9271	970.202	TRAIL P2 - STA 10+50



GRADING NOTES:

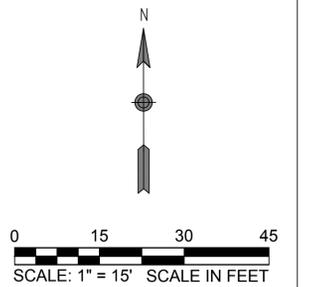
- BOSQUE AREA IS SLOPED 3% AWAY FROM TRAIL P2. ENSURE CROSS SLOPE (TRANSVERSE) HAS A MAX SLOPE OF 1:48 (2.08%) PER ADA STANDARDS.
- TRAIL #1 GRADING SURFACE SHOWS 0.5' CONTOUR INTERVALS, AS THE TRAIL IS RELATIVELY FLAT.
- SEE DETAIL 1 ON SHEET C-501 FOR THE TYPICAL TRAIL SECTION

QUANTITIES (ASSUMED CUT:FILL = 1)
 GRADED AREA: 19,500 SQ. FT.
 CUT: 14.1 CYD
 FILL: 88.5 CYD
 NET: 74.4 CYD (FILL)

EROSION AND SEDIMENT CONTROL NOTES:

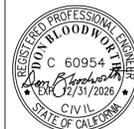
- PLACE FIBER ROLLS ALONG CONTINUOUS EXISTING CONTOURS.
- SEE DETAILS 1 (FIBER ROLL) AND 2 (PYRAMID STACK) ON SHEET C-503

QUANTITIES
 SINGLE FIBER ROLL: 1970 LF
 PYRAMID STACK FIBER ROLL: 230 LF



NOTE: THE CONTRACTOR SHALL VERIFY ALL CONTROLLING FIELD DIMENSIONS BEFORE ORDERING OR FABRICATING ANY MATERIAL.

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				DRAWN BY:	RSP
				APPROVED BY:	DB
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CITY OF HOLTVILLE
 121 W. 5TH STREET
 HOLTVILLE, CALIFORNIA 92250



**ALAMO RIVER TRESTLE
 BRIDGE MODIFICATIONS
 HOLTVILLE, CALIFORNIA**

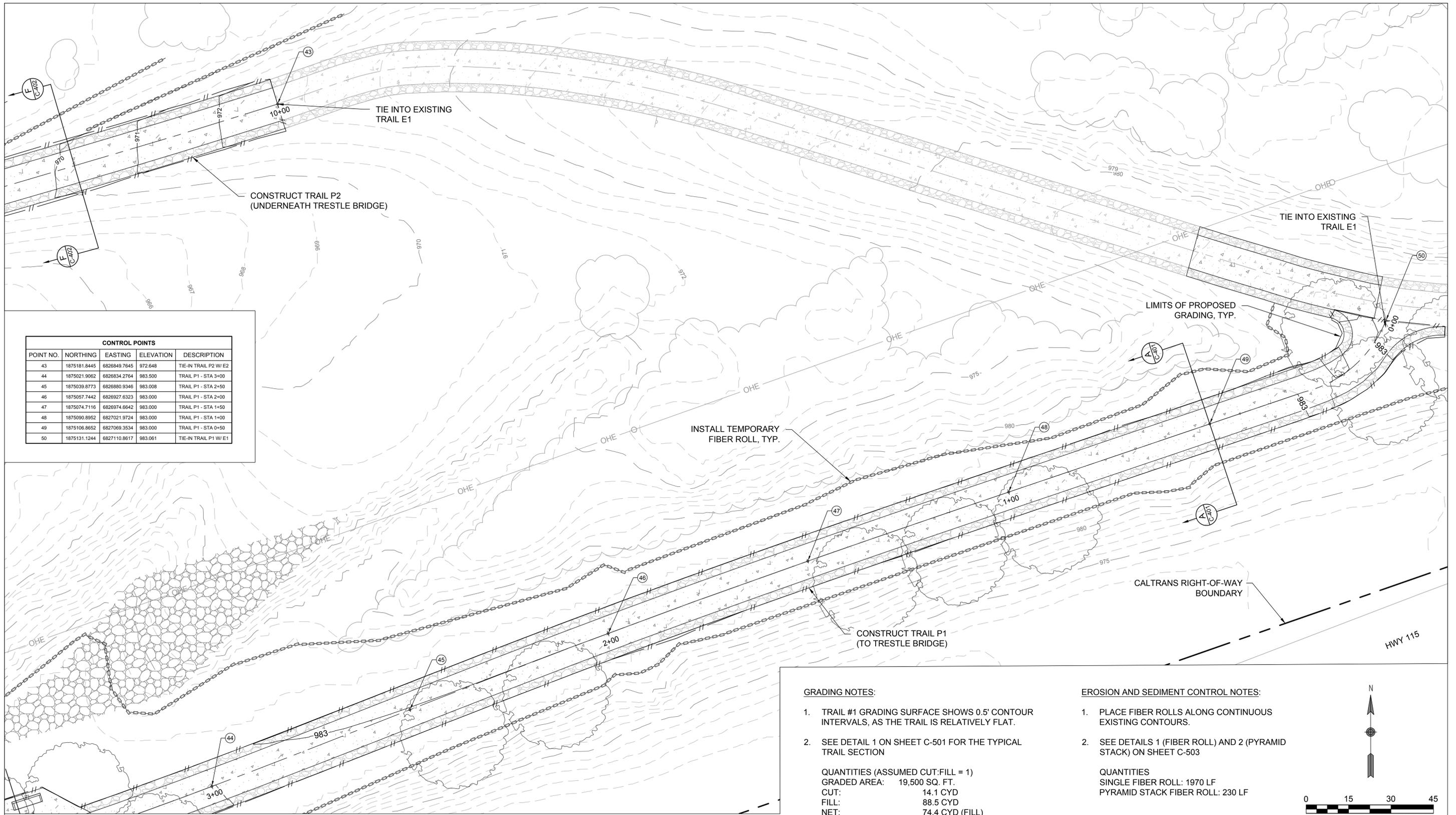
**GRADING AND
 E&S DETAILED
 PLAN NO. 3**

DWG. NO.

C-304

SHEET 13 OF 41

ISSUED FOR CONSTRUCTION PLANS



CONTROL POINTS				
POINT NO.	NORTHING	EASTING	ELEVATION	DESCRIPTION
43	1875181.8445	6826849.7645	972.648	TIE-IN TRAIL P2 W/ E2
44	1875021.9062	6826834.2764	983.500	TRAIL P1 - STA 3+00
45	1875039.8773	6826880.9346	983.008	TRAIL P1 - STA 2+50
46	1875057.7442	6826927.6323	983.000	TRAIL P1 - STA 2+00
47	1875074.7116	6826974.6642	983.000	TRAIL P1 - STA 1+50
48	1875090.8952	6827021.9724	983.000	TRAIL P1 - STA 1+00
49	1875106.8652	6827069.3534	983.000	TRAIL P1 - STA 0+50
50	1875131.1244	6827110.8617	983.061	TIE-IN TRAIL P1 W/ E1

GRADING NOTES:

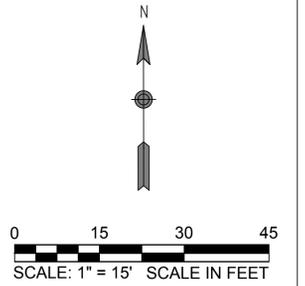
- TRAIL #1 GRADING SURFACE SHOWS 0.5' CONTOUR INTERVALS, AS THE TRAIL IS RELATIVELY FLAT.
- SEE DETAIL 1 ON SHEET C-501 FOR THE TYPICAL TRAIL SECTION

QUANTITIES (ASSUMED CUT:FILL = 1)
 GRADED AREA: 19,500 SQ. FT.
 CUT: 14.1 CYD
 FILL: 88.5 CYD
 NET: 74.4 CYD (FILL)

EROSION AND SEDIMENT CONTROL NOTES:

- PLACE FIBER ROLLS ALONG CONTINUOUS EXISTING CONTOURS.
- SEE DETAILS 1 (FIBER ROLL) AND 2 (PYRAMID STACK) ON SHEET C-503

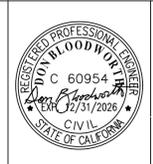
QUANTITIES
 SINGLE FIBER ROLL: 1970 LF
 PYRAMID STACK FIBER ROLL: 230 LF



NOTE: THE CONTRACTOR SHALL VERIFY ALL CONTROLLING FIELD DIMENSIONS BEFORE ORDERING OR FABRICATING ANY MATERIAL.

REV.	DATE	REVISION DESCRIPTION	BY	DESIGNED BY:	AET
				DRAWN BY:	RSP
				APPROVED BY:	DB
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				PLOT DATE:	10/20/2025

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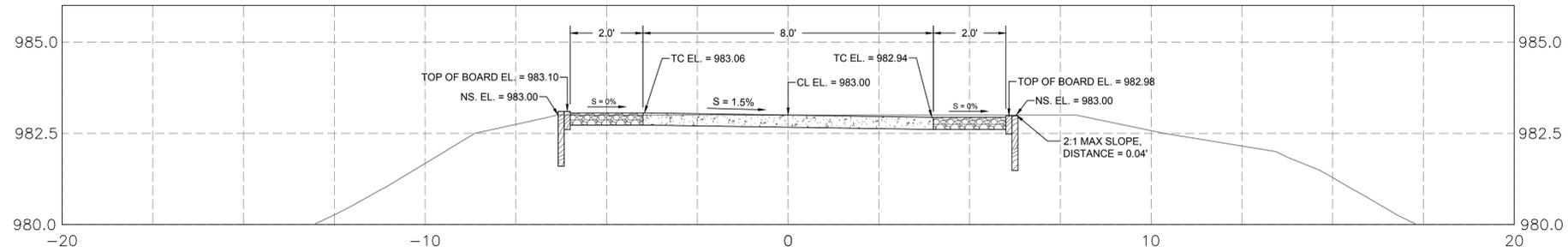
**ALAMO RIVER TRESTLE
 BRIDGE MODIFICATIONS
 HOLTVILLE, CALIFORNIA**

**GRADING AND
 E&S DETAILED
 PLAN NO. 4**

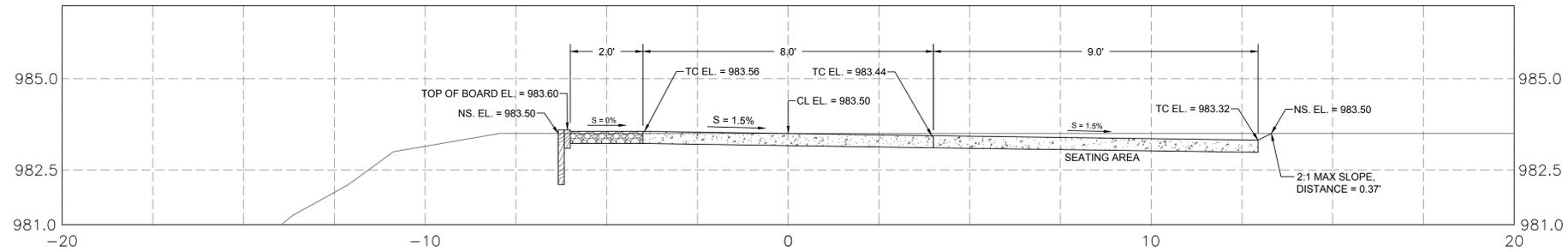
DWG. NO.

C-305
 SHEET 14 OF 41

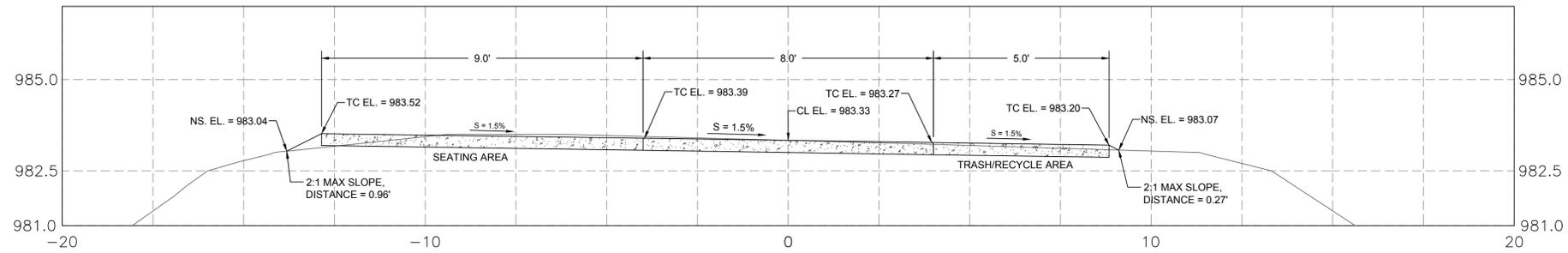
A TRAIL P1 SECTION - STA 0+50
C-401 SCALE: 1" = 2'



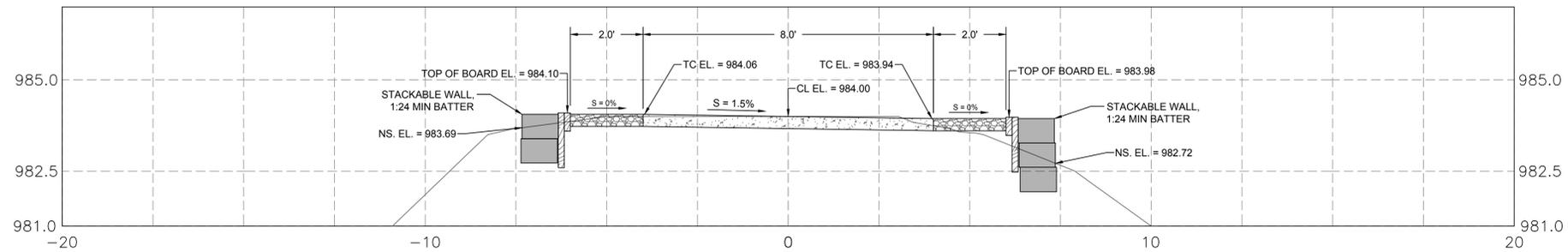
B TRAIL P1 SECTION - STA 3+45
C-401 SCALE: 1" = 2'



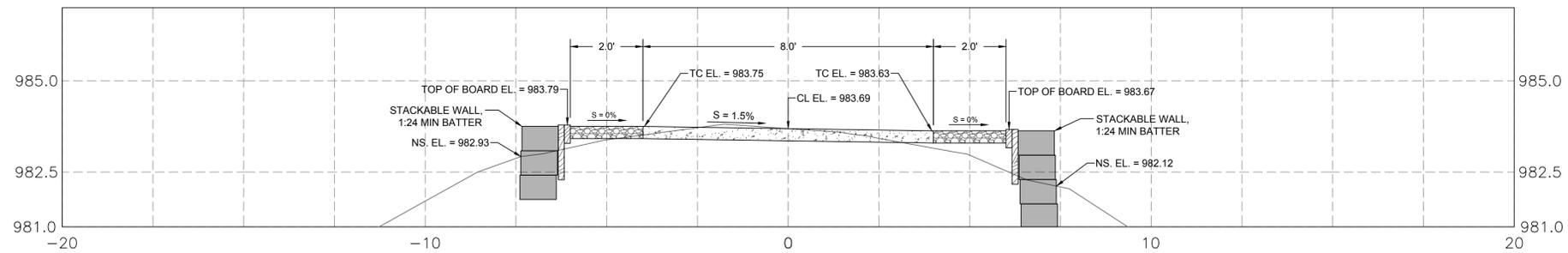
C TRAIL P1 SECTION - STA 5+80
C-401 SCALE: 1" = 2'



D TRAIL P1 SECTION - STA 6+10
C-401 SCALE: 1" = 2'

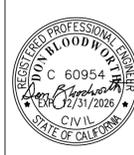


E TRAIL P1 SECTION - STA 6+25
C-401 SCALE: 1" = 2'



NOTE: THE CONTRACTOR SHALL VERIFY ALL CONTROLLING FIELD DIMENSIONS BEFORE ORDERING OR FABRICATING ANY MATERIAL.

REV.	DATE	REVISION DESCRIPTION	BY	DESIGNED BY:	AET
				DRAWN BY:	RSP
				APPROVED BY:	DB
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				PLOT DATE:	10/20/2025



CITY OF HOLTVILLE
121 W. 5TH STREET
HOLTVILLE, CALIFORNIA 92250



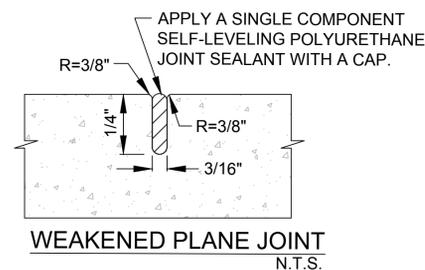
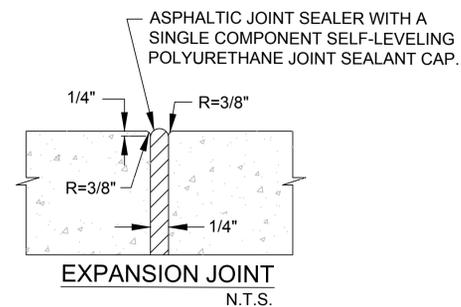
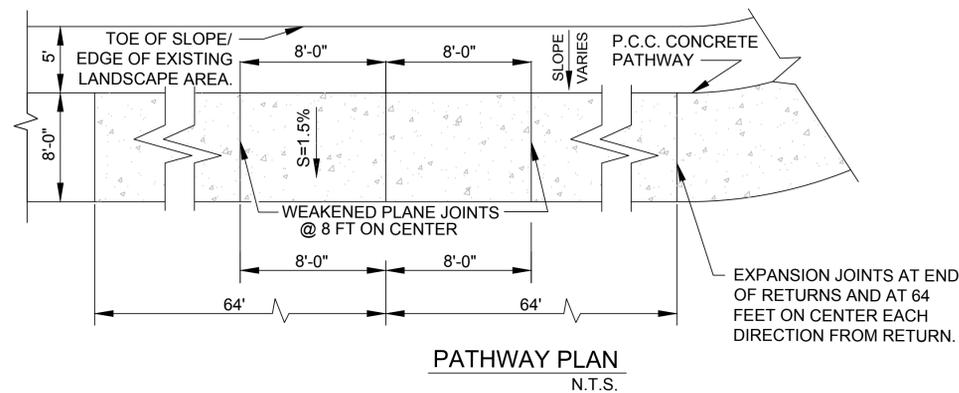
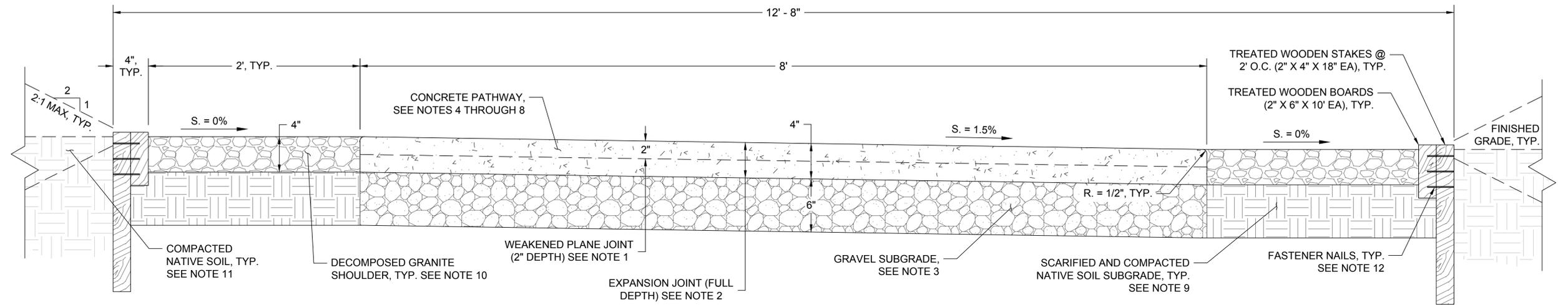
**ALAMO RIVER TRESTLE
BRIDGE MODIFICATIONS
HOLTVILLE, CALIFORNIA**

**GRADING
SECTIONS -
TRAIL P1**

DWG. NO.

C-401

SHEET 15 OF 41



CONCRETE MULTIPURPOSE TRAIL SECTION (PER CITY OF HOLTVILLE MODIFIED STANDARD DETAIL DWG NO. S-122)

1

SECTION

SCALE: 1" = 0.5'

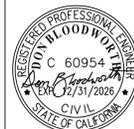
NOTES:

- PLACE WEAKENED PLANE JOINT EVERY 8 LINEAL FEET.
- PLACE EXPANSION JOINT ALONG PATHWAY EVERY 64 FEET. EXPANSION JOINT MATERIAL TO BE COMPOSED OF 1/2" FIBER BOARD INSTALLED ACROSS FULL SECTION OF PATHWAY.
- PLACE 6 INCHES OF CLASS 2 BASE UNDER THE PATHWAY. THE CLASS 2 BASE SHALL BE COMPACTED TO 95 PERCENT OF MAXIMUM DENSITY PER ASTM D-1557.
- THE PATHWAY SURFACE SHALL RECEIVE A DOUBLE TROWEL FINISH.
- THE PATHWAY EDGES SHALL BE PLACED TRUE TO LINE AND GRADE. VERTICAL ELEVATIONS SHALL NOT VARY MORE THAN ±0.01' WITH A MAXIMUM VARIANCE OF 0.02' FROM DESIGN GRADE OCCURRING IN ANY GIVEN 100 FOOT SECTION. THE HORIZONTAL PATHWAY EDGES SHALL NOT VARY MORE THAN 1/4" IN ANY GIVEN 100 FOOT SECTION.
- THE P.C.C. SHALL CONTAIN 7 SACKS OF CEMENT PER CUBIC YARD AND ATTAIN A COMPRESSIVE STRENGTH OF 5,000 PSI AFTER 28 DAYS CURING.
- THE P.C.C. SHALL CONTAIN 1 1/2 LBS OF POLYPROPYLENE FIBER PER CUBIC YARD. THE POLYPROPYLENE FIBER SHALL BE MANUFACTURED BY FIBERMESH.
- ALL METAL FORM STAKES MUST HAVE PROTECTIVE DEVICES SUCH AS REBAR CAPS INSTALLED AT ALL TIMES DURING USE TO ADEQUATELY ENSURE PUBLIC SAFETY.
- SCARIFY AND COMPACT NATIVE MATERIAL 6" BELOW TRAIL SHOULDERS TO 85 PERCENT (MINIMUM) OF MAXIMUM DENSITY PER ASTM D-1557.
- SHOULDER MATERIAL SHALL BE DECOMPOSED GRANITE. COMPACT GRADE ADJACENT TO OUTER BOARDS TO PREVENT SETTLING.
- PLACE NATIVE MATERIAL FLUSH WITH THE EDGE OF THE FINISH SURFACES TO DAYLIGHT (EXISTING GRADE). APPLY A LIGHT MIST OF WATER TO THE SURFACE OF THE NATIVE MATERIAL AFTER THE FINAL GRADING IS SATISFACTORILY COMPLETED. COMPACT NATIVE MATERIAL TO 85 PERCENT OF MAXIMUM DENSITY.
- USE 3" (8D) HOT DIPPED GALVANIZED SPIRAL DECK NAILS TO FASTEN WOODEN BOARDS TO WOODEN STAKES, TYP.
- PATHWAY SHALL BE INSTALLED AND ADJOINED TO THE EXISTING CONCRETE PATH AS ILLUSTRATED ON THE PLANS. CONTRACTOR TO MATCH EXISTING CONDITIONS AT TIE-IN POINTS.

NOTE: THE CONTRACTOR SHALL VERIFY ALL CONTROLLING FIELD DIMENSIONS BEFORE ORDERING OR FABRICATING ANY MATERIAL.

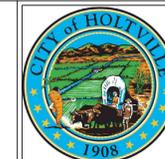
DWG. NO.

REV.	DATE	REVISION DESCRIPTION	BY
		DESIGNED BY: AET	
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		APPROVED BY: DB	
		DRAWING:	
		PLOT DATE: 10/20/2025	



CITY OF HOLTVILLE

121 W. 5TH STREET
HOLTVILLE, CALIFORNIA 92250

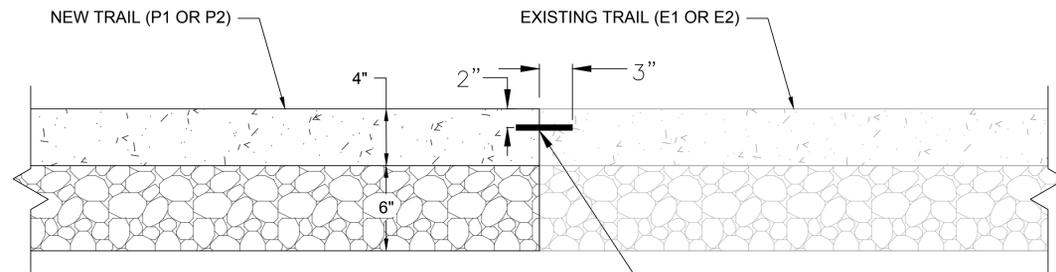


**ALAMO RIVER TRESTLE
BRIDGE MODIFICATIONS
HOLTVILLE, CALIFORNIA**

**DETAILS -
TYPICAL TRAIL**

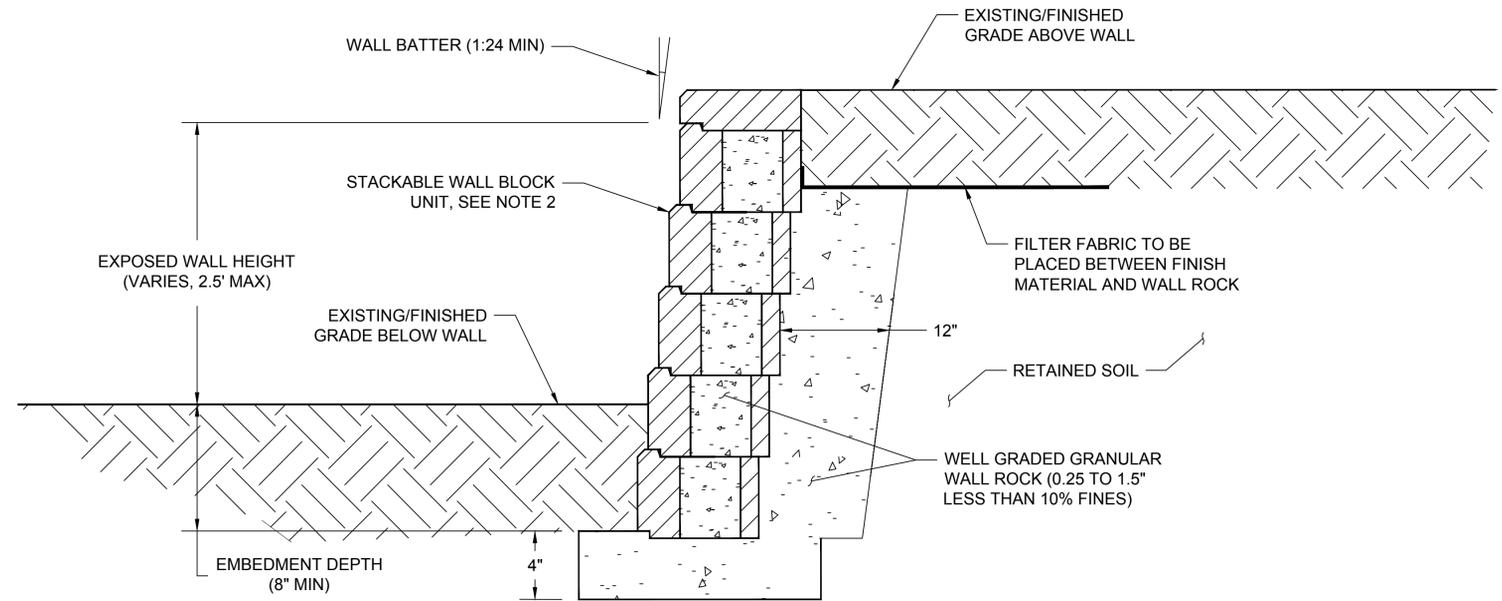
C-501

SHEET 17 OF 41



WHERE THE NEW PATHWAY ADJOINS WITH THE EXISTING, NUMBER 4 REINFORCING BARS 6 INCHES IN LENGTH SHALL BE DOWELED FOR A HORIZONTAL DISTANCE OF 3 INCHES INTO THE EXISTING SIDEWALK. THE DOWELS SHALL BE PLACED 2 FEET ON CENTER ALONG THE WIDTH OF THE NEW SIDEWALK.

1 TIE-IN LOCATION - CONCRETE MULTIPURPOSE TRAIL SECTION (WITH EXISTING TRAIL)
SECTION SCALE: 1" = 0.5'



NOTES:

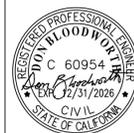
1. STACKABLE WALL INSTALLATION SHALL BE SIMILAR TO ALLAN BLOCK'S "TYPICAL GRAVITY WALL APPLICATION" DETAIL (PER THEIR SPECBOOK/BEST COMMON PRACTICES, CIRCA 2024) OR EQUIVALENT.
2. STACKABLE WALL BLOCK UNITS TO BE ALLAN BLOCK'S "AB CLASSIC" (8" H, 12" D, 18" L) OR EQUIVALENT.

2 STACKABLE WALL
SECTION SCALE: 1" = 0.25'

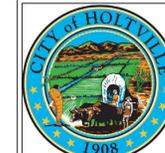
NOTE: THE CONTRACTOR SHALL VERIFY ALL CONTROLLING FIELD DIMENSIONS BEFORE ORDERING OR FABRICATING ANY MATERIAL.

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				APPROVED BY:	DB
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770 First Avenue, Suite 400 San Diego, CA 92101
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CITY OF HOLTVILLE
121 W. 5TH STREET
HOLTVILLE, CALIFORNIA 92250



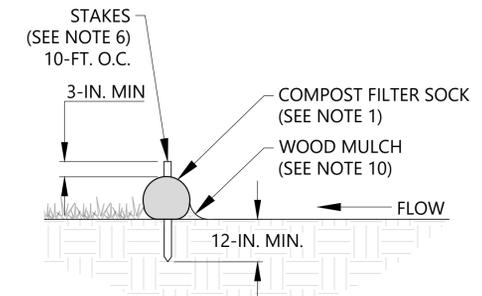
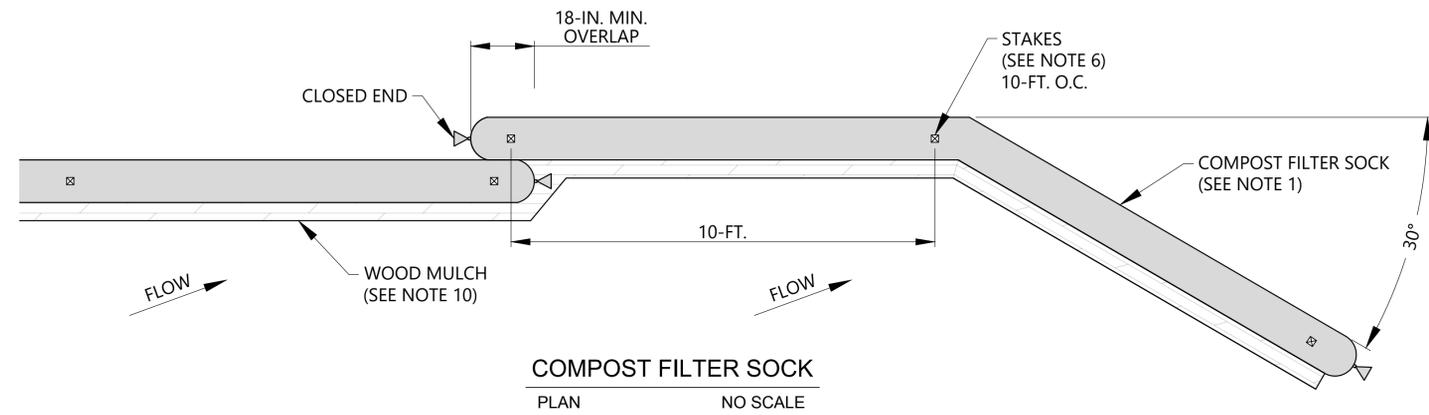
**ALAMO RIVER TRESTLE
BRIDGE MODIFICATIONS
HOLTVILLE, CALIFORNIA**

**DETAILS - TRAIL
TIE-INS AND
STACKABLE WALL**

DWG. NO.

C-502

SHEET 18 OF 41



1 SINGLE SOCK
SECTION NO SCALE

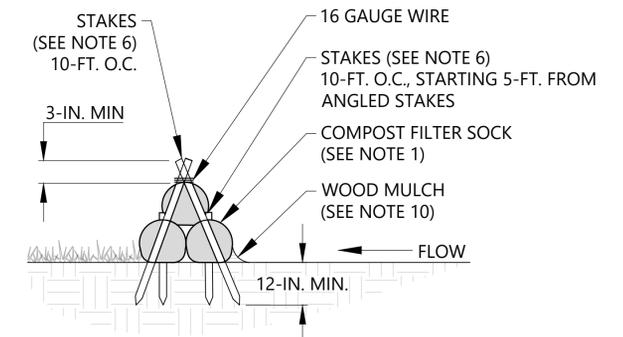
FIBER ROLL NOTES

1. USE FILTREXX® COMPOST FILTER SOCK OR ENGINEER APPROVED EQUIVALENT. USE 8" MINIMUM DIAMETER FOR COMPOST FILTER SOCKS.
2. TO PREVENT WATER & SEDIMENT FROM FLOWING AROUND MEASURES A MINIMUM 10-FOOT LENGTH OF COMPOST FILTER SOCK MUST BE PLACED UPSLOPE AT A 30 DEGREE ANGLE FROM THE ENDS OF THE MEASURES.
3. MATERIALS USED IN THE COMPOST FILTER SOCK MUST MEET THE SPECIFICATIONS OUTLINED ON GENERAL NOTES & LEGEND DRAWING.
4. COMPOST FILTER SOCKS SHOULD BE LOCATED AS SHOWN ON PLANS AND AS DIRECTED BY THE ENVIRONMENTAL INSPECTOR OR OWNER'S REPRESENTATIVE, BASED UPON FIELD CONDITIONS.
5. PRIOR TO INSTALLATION, CLEAR ALL OBSTRUCTIONS INCLUDING ROCKS, CLODS, AND OTHER DEBRIS GREATER THAN ONE INCH THAT MAY INTERFERE WITH PROPER FUNCTION OF THE COMPOST FILTER SOCK.
6. OAK OR OTHER DURABLE HARDWOOD STAKES 2-IN. X 2-IN. IN CROSS SECTION SHOULD BE DRIVEN VERTICALLY PLUMB, THROUGH THE CENTER OF THE COMPOST SOCK. STAKES SHOULD BE PLACED AT A MAXIMUM INTERVAL OF 10-FT. STAKES SHOULD BE DRIVEN TO A MINIMUM DEPTH OF 12 INCHES, WITH A MINIMUM OF 3-IN. PROTRUDING ABOVE THE COMPOST SOCK.
7. IN THE EVENT STAKING IS NOT POSSIBLE (I.E., WHEN SOCKS ARE USED ON PAVEMENT) HEAVY CONCRETE BLOCKS SHALL BE USED BEHIND THE SOCK TO HOLD IT IN PLACE DURING RUNOFF EVENTS.
8. IF THE COMPOST SOCK IS TO BE LEFT AS PART OF THE NATURAL LANDSCAPE, IT MAY BE SEEDED AT TIME OF INSTALLATION FOR ESTABLISHMENT OF PERMANENT VEGETATION USING THE SEED MIX ON THE SEEDING SPECIFICATIONS DRAWING.
9. COMPOST FILTER SOCKS ARE NOT TO BE USED IN PERENNIAL OR INTERMITTENT STREAMS.
10. APPLY WOOD MULCH OR COMPOST TO ½ HEIGHT OF COMPOST FILTER SOCK.

COMPOST FILTER SOCK MAINTENANCE

1. INSPECT AT LEAST ONCE PER 7 CALENDAR DAYS AND WITHIN 24 HOURS OF A RAIN EVENT GREATER THAN OR EQUAL TO 1.0-IN. IN 24 HOURS.
2. MAKE ANY NECESSARY REPAIRS IMMEDIATELY.
3. REMOVE ACCUMULATED SEDIMENT OVER 1/2 THE HEIGHT OF THE COMPOST FILTER SOCK AND ANY DEBRIS. THE COMPOST SOCK MUST BE REPLACED IF CLOGGED OR TORN.
4. IF PONDING BECOMES EXCESSIVE, THE SOCK MAY NEED TO BE REPLACED WITH ONE OF A LARGER DIAMETER OR A DIFFERENT MEASURE. THE SOCK NEEDS TO BE REINSTALLED IF UNDERMINED OR DISLODGED.
5. THE COMPOST FILTER SOCK SHALL BE REGULARLY INSPECTED UNTIL LAND DISTURBANCE IS COMPLETE AND THE AREA ABOVE THE MEASURE HAS BEEN PERMANENTLY STABILIZED.
6. REMOVE ALL COMPOST FILTER SOCK MATERIALS AND UNSTABLE SEDIMENT DEPOSITS AND RETURN THE AREA TO GRADE AND STABILIZE IT AFTER THE CONTRIBUTING DRAINAGE AREA HAS BEEN PROPERLY STABILIZED.
7. COMPOST MATERIAL DISPOSAL/RECYCLING HANDLING REQUIREMENTS OUTLINED ON GENERAL NOTES & LEGEND DRAWING.

REF: DETAIL BASED ON NCDEQ EROSION AND SEDIMENT CONTROL PLANNING AND DESIGN MANUAL, CHAPTERS 6 REVISED, MAY 2013 AND FILTREXX® SWPPP CUT SHEET - SEDIMENT/PERIMETER CONTROL (SILTSOXX™).

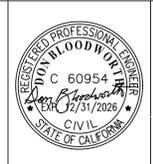


2 PYRAMID STACK SOCK
SECTION NO SCALE

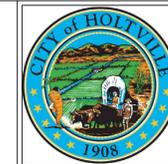
NOTE: THE CONTRACTOR SHALL VERIFY ALL CONTROLLING FIELD DIMENSIONS BEFORE ORDERING OR FABRICATING ANY MATERIAL.

REV.	DATE	REVISION DESCRIPTION	BY	DESIGNED BY:	AET
				DRAWN BY:	RSP
				APPROVED BY:	DB
				DRAWING:	
				PLOT DATE:	10/20/2025

770 First Avenue, Suite 400 San Diego, CA 92101
Tel. (619) 831-4600 Fax. (619) 232-1039



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121 W. 5TH STREET
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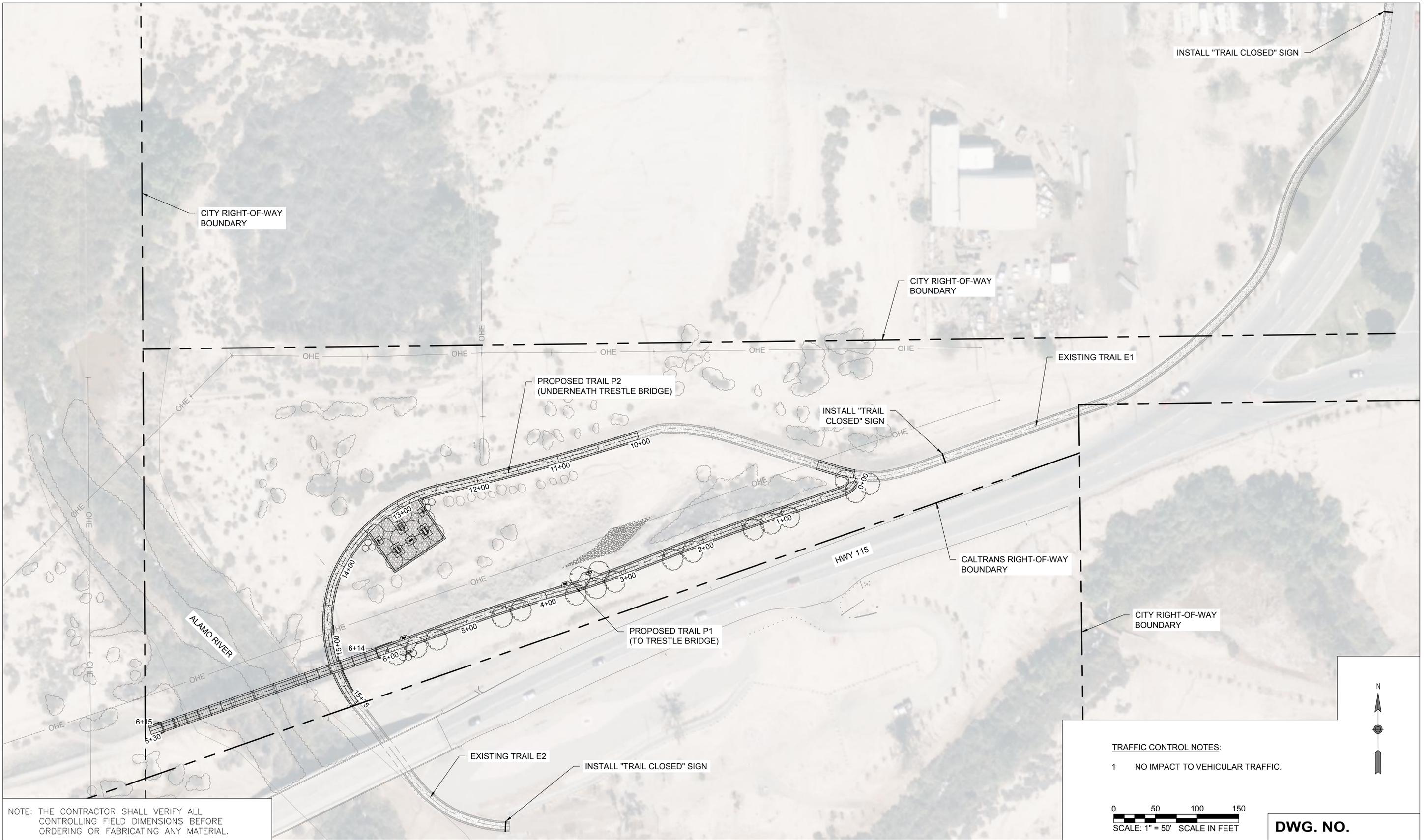
**ALAMO RIVER TRESTLE
BRIDGE MODIFICATIONS
HOLTVILLE, CALIFORNIA**

DETAILS - E&S

C-503

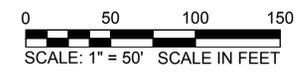
SHEET 19 OF 41

DWG. NO.



NOTE: THE CONTRACTOR SHALL VERIFY ALL CONTROLLING FIELD DIMENSIONS BEFORE ORDERING OR FABRICATING ANY MATERIAL.

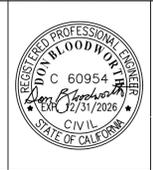
TRAFFIC CONTROL NOTES:
 1 NO IMPACT TO VEHICULAR TRAFFIC.



REV.	DATE	REVISION DESCRIPTION	BY

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 DRAWN BY: **RSP**
 APPROVED BY: **DB**
 DRAWING:
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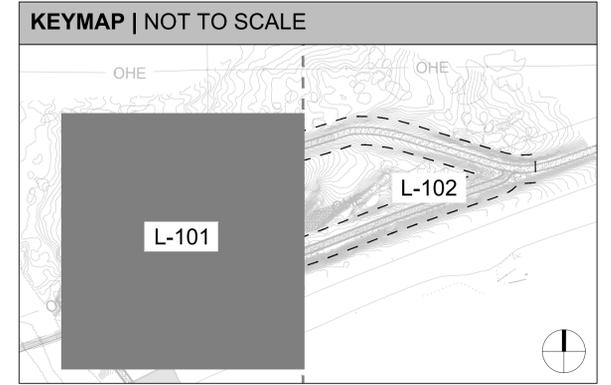
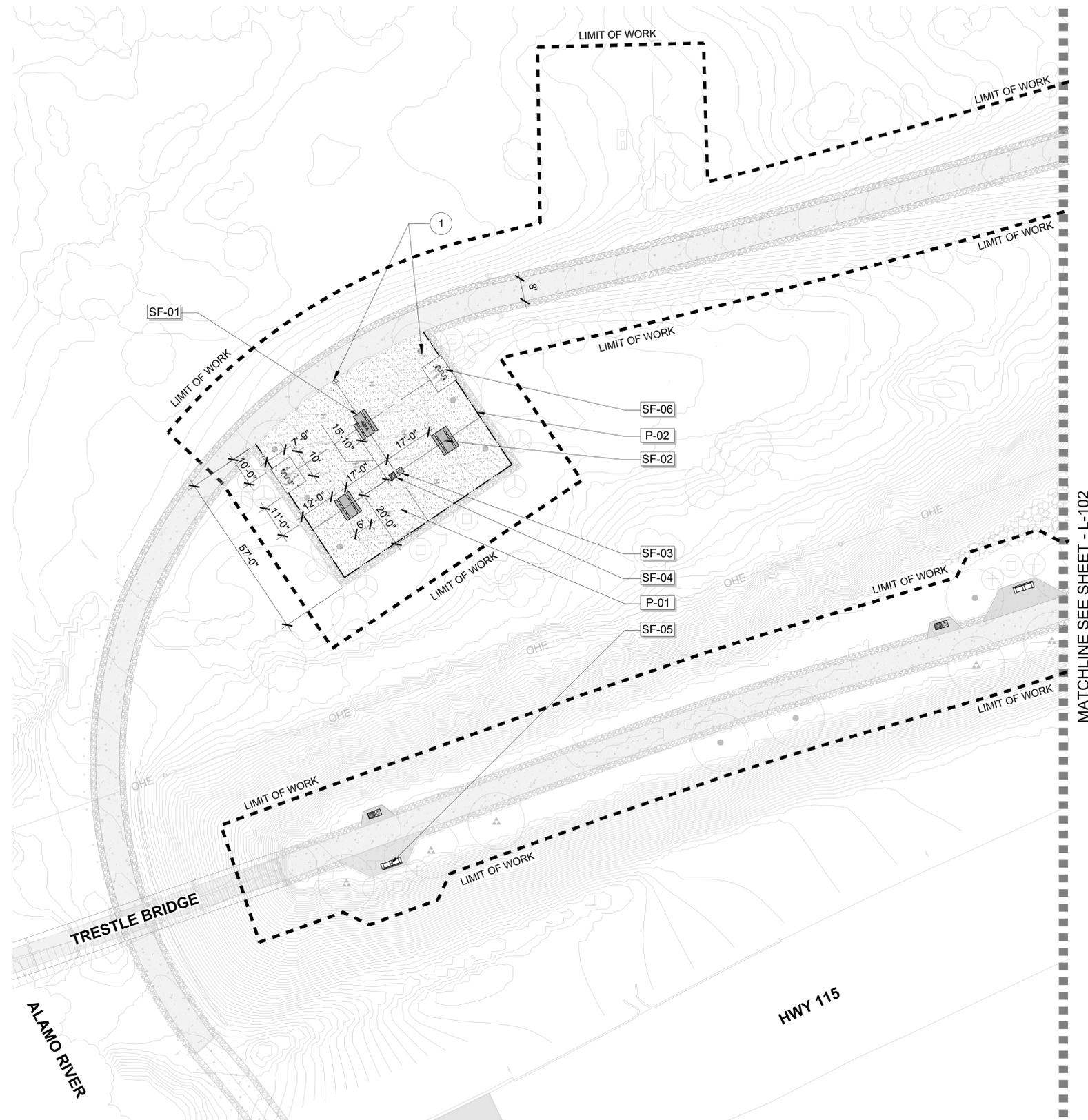
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**ALAMO RIVER TRESTLE
 BRIDGE MODIFICATIONS
 HOLTVILLE, CALIFORNIA**

**TEMPORARY
 TRAFFIC CONTROL**

DWG. NO. C-601
 SHEET 20 OF 41



HARDSCAPE / MATERIALS LEGEND

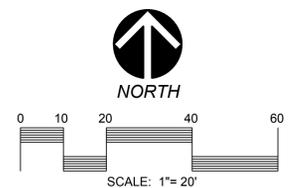
KEY	SYMBOL	DESCRIPTION	DETAIL
P-01		STABILIZED DECOMPOSED GRANITE	A / L-104
P-02		HEADER BOARD	SEE CIVIL PLANS
SF-01		RECTANGULAR ACCESSIBLE PICNIC TABLE	B / L-104
SF-02		RECTANGULAR PICNIC TABLE	B / L-104
SF-03		RECEPTACLE: TRASH	C / L-104
SF-04		RECEPTACLE: RECYCLE	C / L-104
SF-05		BENCH WITH BACK AND ARMREST	A / L-105
SF-06		BIKE RACK	B / L-105

LANDSCAPE CONSTRUCTION KEY NOTES

1	EXISTING INTERPRETIVE SIGNAGE TO BE RELOCATED TO BOSQUE TREE AREA
---	-------------------------------------------------------------------

SHEET NOTES

- REFER TO SHEET L-103 FOR LANDSCAPE CONSTRUCTION LEGEND, MATERIALS AND NOTES.
- REFER TO SHEET L-104 AND L-105 FOR LANDSCAPE CONSTRUCTION DETAILS.
- REFER TO SPECIFICATIONS FOR ADDITIONAL INFORMATION.



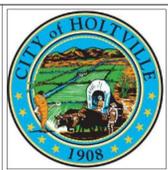
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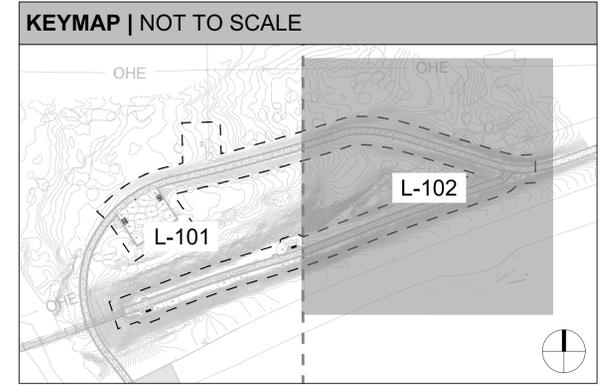
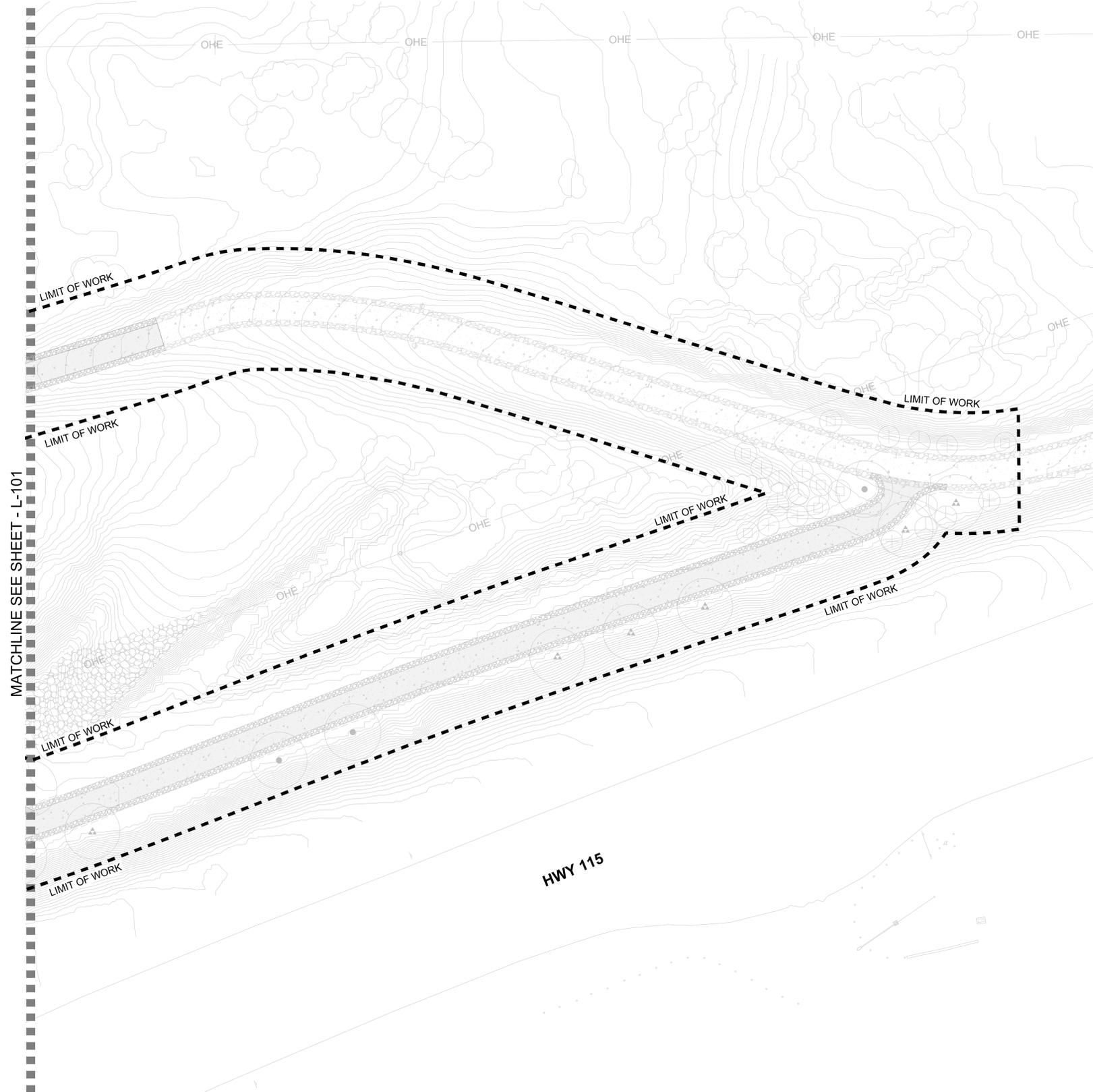


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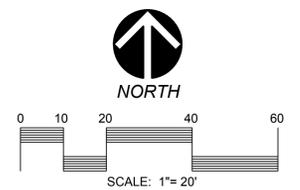
**LANDSCAPE
CONSTRUCTION
PLAN**

L-101
SHEET 21 OF 41

ISSUED FOR CONSTRUCTION PLANS



- SHEET NOTES**
1. REFER TO SHEET L-103 FOR LANDSCAPE CONSTRUCTION LEGEND, MATERIALS AND NOTES.
 2. REFER TO SHEET L-104 AND L-105 FOR LANDSCAPE CONSTRUCTION DETAILS.
 3. REFER TO SPECIFICATIONS FOR ADDITIONAL INFORMATION.



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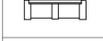
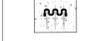
**LANDSCAPE
 CONSTRUCTION
 PLAN**

L-102
 SHEET 22 OF 41

LANDSCAPE CONSTRUCTION MATERIALS NOTES

1. PRIOR TO BIDDING, THE CONTRACTOR IS TO CONFIRM CONDITIONS IN THE FIELD AFFECTING THE COMPLETION OF CONSTRUCTION WORK AND REPORT DISCREPANCIES TO THE CITY OF HOLTVILLE RESIDENT ENGINEER AND THE LANDSCAPE ARCHITECT.
2. PROTECT EXISTING UTILITIES, CURBS AND GUTTERS, LIGHTS, SIGNS, CATCH BASINS, STREET IMPROVEMENTS DURING CONSTRUCTION. ANY DAMAGED ITEMS SHALL BE REPLACED TO MATCH EXISTING AT CONTRACTORS OWN EXPENSE.
3. CONTRACTOR SHALL LAYOUT AND FIELD VERIFY ALL DIMENSIONS OF SITE ELEMENTS INCLUDING SCORELINES AND ALL RELATED WORK PRIOR TO CONSTRUCTION. ANY DISCREPANCIES SHALL BE BROUGHT TO THE ATTENTION OF THE CITY OF HOLTVILLE RESIDENT ENGINEER AND THE LANDSCAPE ARCHITECT. THE LANDSCAPE ARCHITECT RESERVES THE RIGHT TO MAKE ADJUSTMENTS IN THE FIELD.
4. WRITTEN DIMENSIONS TAKE PRECEDENCE OVER SCALING OF DRAWINGS. ANGLES ARE AT 90 DEGREES UNLESS NOTED OTHERWISE.
5. WHERE CONFLICTS OCCUR BETWEEN GENERAL CONSTRUCTION NOTES, DRAWINGS AND ACTUAL FIELD CONDITIONS, NOTIFY CITY OF HOLTVILLE RESIDENT ENGINEER FOR CLARIFICATION. FAILURE TO PROVIDE NOTIFICATION MAY MAKE CONTRACTOR LIBLE FOR COSTS INCURRED TO RECTIFY THE DISCREPANCY.
6. CONTRACTOR TO CONSULT WITH THE PROJECT'S UTILITIES CONSTRUCTION REPRESENTATIVE, APPROPRIATE AGENCIES, DIG ALERT, AND DRAWINGS TO VERIFY LOCATIONS OF UNDERGROUND UTILITIES, PIPES AND RELATED STRUCTURES. RESPONSIBILITY FOR COSTS INCURRED DUE TO DAMAGE OF THE UTILITIES, PIPES OR STRUCTURES WILL BE THE RESPONSIBILITY OF THE CONTRACTOR IF PROPER VERIFICATION WAS NOT PERFORMED.
7. CONTRACTOR SHALL NOT WILLFULLY PROCEED WITH CONSTRUCTION OPERATIONS WHEN IT IS OBVIOUS THAT UNKNOWN OBSTRUCTION AND GRADE DIFFERENCES EXIST THAT MAY NOT HAVE BEEN KNOWN DURING THE DESIGN PROCESS. CONTRACTOR SHALL BRING SUCH CONDITIONS TO ATTENTION OF CITY OF HOLTVILLE RESIDENT ENGINEER IMMEDIATELY FOR RESOLUTION. CONTRACTOR TO ASSUME FULL RESPONSIBILITY FOR COSTS INCURRED AND REQUIRED MODIFICATIONS DUE TO LACK OF PROVIDING SUCH NOTIFICATION.
8. FIELD VERIFY VERTICAL CONTROLS OF ALL CONSTRUCTION FEATURES AS SHOWN ON THE CONSTRUCTION PLANS PRIOR TO POURING CONCRETE FLATWORK.
9. ENSURE THAT FINISHED GRADES HAVE BEEN SET CORRECTLY PRIOR TO INSTALLING PAVING, EDGING AND OTHER STRUCTURES.
10. ENSURE THAT DRAIN LINES, IRRIGATION LATERAL AND MAINLINES, ELECTRICAL CONDUIT SLEEVES, ETC., ARE IN PLACE PRIOR TO INSTALLATION OF PAVING AND CURBS.
11. SEE CIVIL DRAWINGS FOR HARDSCAPE LAYOUT, GRADING, AND DRAINAGE INFORMATION.

LANDSCAPE CONSTRUCTION LEGEND

SYMBOL	KEY	ITEM	MODEL # / DESCRIPTION	COLOR AND FINISH	NOTES & REMARKS	SUPPLIER INFORMATION	DETAIL
PAVING AND HARDSCAPE MATERIALS							
	P-01	STABILIZED DECOMPOSED GRANITE	4" DEPTH STABILIZED DECOMPOSED GRANITE	DESERT GOLD COLOR: LIGHT TAN SIZE: 3/8"	-	SOUTHWEST BOULDER & STONE (PALM SPRINGS) PHONE: (760) 465-2006 WEBSITE: SOUTHWESTBOULDER.COM	A / L-104
	P-02	STEEL EDGING	STEEL EDGING: THE BORDER BETWEEN STABILIZED DECOMPOSED GRANITE & ROCK DIVISION, SEPARATION, AND WHERE DEFINITION IS REQUIRED.	SIZE: 3/16" X 4" X 16' FINISH: BROWN POWDER COATED, BAKED ON ENAMEL	EDGING TO BE MANUFACTURED FROM STEEL WITH INTERLOCKING SYSTEM AND STAKE PUNCH OUTS FABRICATED IN EACH STRIP. STAKES ARE TO BE A MINIMUM OF 12" LONG FOR 14 GA. INSTALL PER MANUFACTURER'S RECOMMENDATIONS	SURE-LOC: EMAIL: INFO@SURELOCEDGING.COM PHONE: 1 (800) 787-3562	HEADER BOARD PER CIVIL PLANS
SITE FURNISHINGS							
	SF-01	RECTANGULAR ACCESSIBLE PICNIC TABLE	QCP Q-LBT102PTADA (ONE ADA CUT OUT)	COLOR: BUNGALOW (STRATA TEXTURE) FINISH: FACTORY APPLIED PERMASHIELD 5400 ANTI-GRAFFITI CONTROL SYSTEM COATING ADHESIVE SET: SIKAFLEX-1A ELASTOMERIC SEALANT / ADHESIVE. 'STONE' COLOR	REFER TO LANDSCAPE CONSTRUCTION PLANS FOR LOCATIONS. RECEPTACLES SHALL BE SECURED TO PAVEMENT WITH ADHESIVE. REFER TO DETAILS.	QUICK CRETE PRODUCTS PH: (866) 703-3434 SIKA CORPORATION PH: (562) 941-0231	C / L-104
	SF-02	RECTANGULAR PICNIC TABLE	QCP Q-LBT-96PT				C / L-104
	SF-03	RECEPTACLE: TRASH	QS-CAL2553SDW. WASTE CONTAINER. CALIFORNIA. WITH 45 GAL. LINER				D / L-104
	SF-04	RECEPTACLE: RECYCLE	QS-CAL2553SDW-REC. RECYCLE CONTAINER CALIFORNIA. WITH 45 GAL. LINER				D / L-104
	SF-05	BENCH WITH BACK AND ARMREST	QCP VICTORIA BENCH (ONE-PIECE) CONCRETE BENCH WITH "VICTORIA STYLE ARM REST. MODEL# Q1VIC84B				A / L-105
	SF-06	BIKE RACK	HI-ROLLER SERIES 3H BIKE RACK, SURFACE MOUNTED				B / L-105

DWG. NO.

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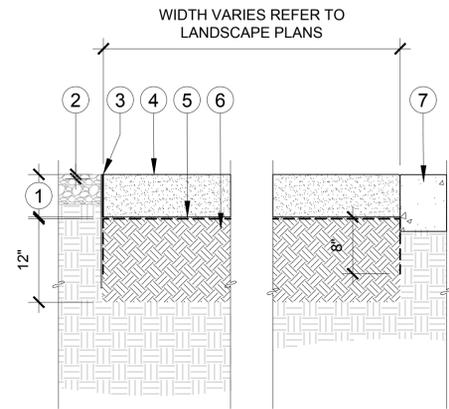


**ALAMO RIVER TRESTLE
BRIDGE MODIFICATIONS
HOLTVILLE, CALIFORNIA**

**LANDSCAPE
CONSTRUCTION
LEGEND,
NOTES**

L-103

SHEET 23 OF 41

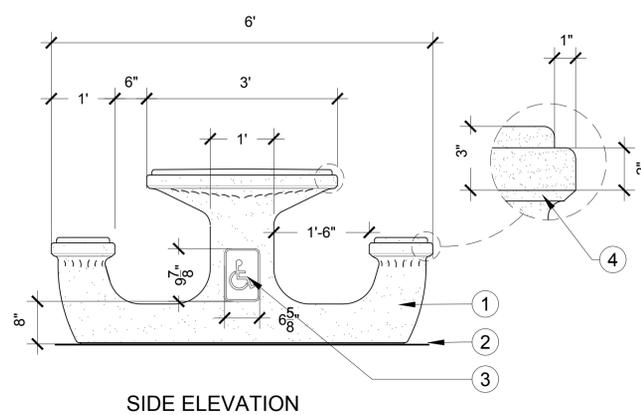
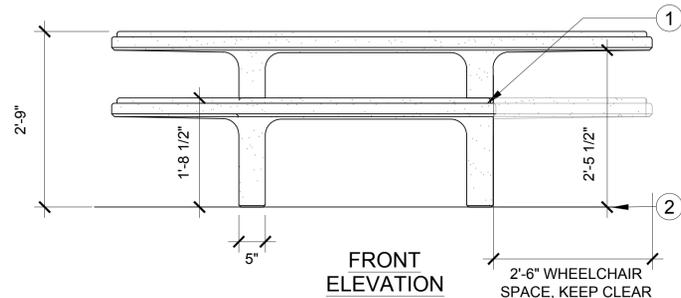
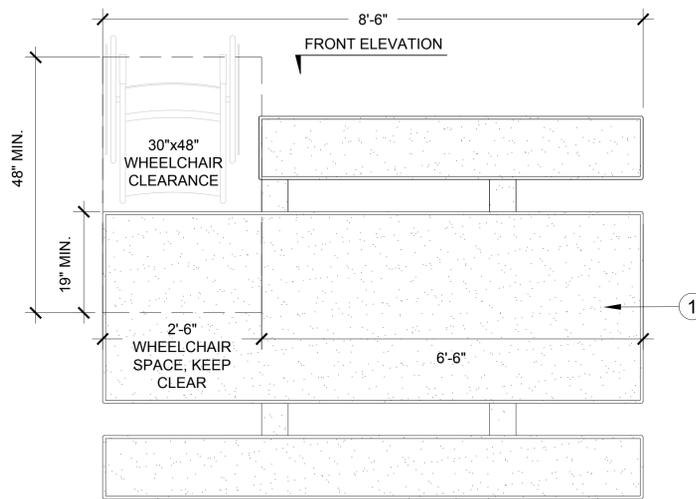


LEGEND

- 1 DECOMPOSED GRANITE DEPTH: MULCH (STABILIZED) - 4" PEDESTRIAN AREAS - 4"
- 2 1" AT BORDER AREAS, TAPER CRUSHED ROCK DEPTH AT STEEL EDGING HEADER EDGES.
- 3 STEEL EDGING HEADER. SEE DETAIL B, THIS SHEET
- 4 STABILIZED DECOMPOSED GRANITE SURFACE
- 5 MIRAFI 140N PERMEABLE WEED BLOCKING LANDSCAPE FABRIC. INSTALL BELOW DECOMPOSED GRANITE AND TURN FABRIC UNDER AT ALL EDGES AT 8" MIN. DEPTH AS SHOWN. SECURE FABRIC WITH STAINLESS STEEL "U" STAKES AT 24" O.C. AT ALL EDGES
- 6 95% MIN. COMPACTED SUB GRADE 12" MIN. DEEP.
- 7 CONCRETE PAVING. REFER TO CIVIL ENGINEERING DRAWINGS FOR FURTHER INFORMATION

NOTES:

1. STABILIZED DECOMPOSED GRANITE SURFACE SHALL BE MAINTAINED SO THAT A LEVEL, FIRM, STABLE, RESISTANT SURFACE IS PROVIDED. RE-APPLY STABILIZER PER MANUFACTURER'S RECOMMENDATIONS (EVERY 5-10 YEARS). REFER TO CIVIL DRAWINGS FOR DECOMPOSED GRANITE GRADES AND SLOPES.
2. REFER SHEET L-103 FOR THE LANDSCAPE CONSTRUCTION LEGEND FOR COLORS AND FINISHES.

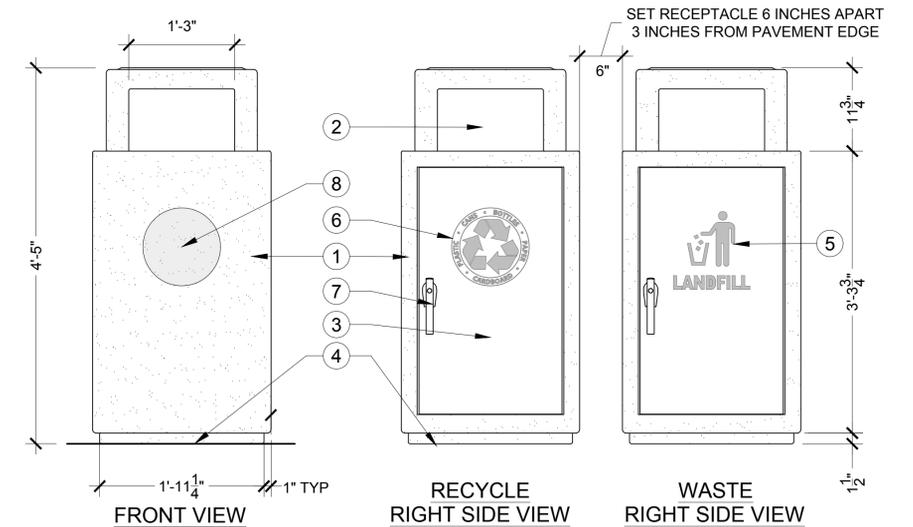


LEGEND

- 1 CONCRETE ACCESSIBLE PICNIC TABLE. SEE SHEET L-103 FOR COLOR AND FINISH
- 2 FINISHED SURFACE
- 3 (2) ACCESSIBLE LOGOS INSET PAINTED ACCESSIBLE BLUE AND WHITE. (1) ON EACH END
- 4 1/2" CHAMFER ON TABLE AND BENCH, TYP.

NOTES:

- A. PRODUCT SHALL BE BY QCP, OR EQUAL AS APPROVED BY LANDSCAPE ARCHITECT AND CITY RESIDENT ENGINEER.
- B. REFER TO MFG CUTSHEET FOR ADDITIONAL INFORMATION.
- C. SECURE TABLES TO PAVEMENT WITH ADHESIVE. ENTIRE BOTTOM OF SURFACE TO RECEIVE ADHESIVE.



LEGEND

- 1 PRECAST CONCRETE RECEPTACLE, REFER TO SHEET L-103 LANDSCAPE CONSTRUCTION LEGEND
- 2 OPENING ON (4) SIDES FOR DISPOSING OF LITTER
- 3 STEEL DOOR ON (1) SIDE ONLY WITH KEY. STANDARD LOCKING. WASTE DOOR TO RECEIVE POWDER COATED 'BRONZE'. RECYCLE DOOR TO RECEIVE POWDER COATED 'RECYCLE BLUE'
- 4 FINISHED SURFACE
- 5 LANDFILL LOGO, 12" SQ. VINYL. COLOR: WHITE AS MANUFACTURED
- 6 RECYCLE LOGO, 11" DIA. VINYL. COLOR: WHITE AS MANUFACTURED
- 7 HANDLE WITH PADLOCK HARDWARE, AS MANUFACTURED
- 8 RECYCLE LOGO SANDBLASTED PAINTED BLUE AS MANUFACTURED FOR RECYCLE RECEPTACLE. LANDFILL LOGO SANDBLASTED PAINTED BLACK AS MANUFACTURED FOR WASTE RECEPTACLE

NOTES:

- A. PRODUCT SHALL BE BY QCP, OR EQUAL AS APPROVED BY LANDSCAPE ARCHITECT AND CITY RESIDENT ENGINEER.
- B. PROVIDE 45 GAL. LINER, PROVIDED BY MANUFACTURER.
- C. RECEPTACLES REQUIRE ADHESIVE APPLIED TO COVER BOTTOM OF ENTIRE CONTAINER AT INSTALLATION ON PAVEMENT.
- D. CONTRACTOR SHALL MARKOUT LOCATION OF EACH RECEPTACLE BEFORE APPLYING ADHESIVE. LOCATION SHALL BE APPROVED BY CITY RE AND LANDSCAPE ARCHITECT.

A STABILIZED DECOMPOSED GRANITE SECTION

SECTION

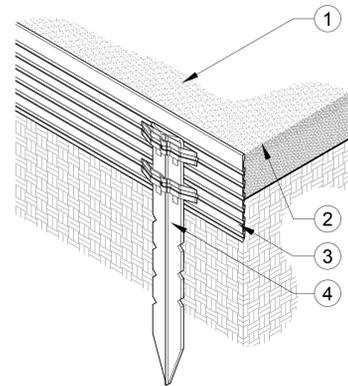
SCALE: 1" = 1'

LEGEND

- 1 STABILIZED DECOMPOSED GRANITE
- 2 FINISH GRADE
- 3 STEEL EDGING
- 4 INSTALL EDGING WITH STAKE POCKETS ON INSIDE OF PLANTING BED. TOP OF EDGING NOT TO EXCEED 1/2" ABOVE FINISH GRADE AS SHOWN BELOW. STAKES TO BE A MINIMUM OF 15" LONG

NOTES:

1. EDGING TO BE NO MORE THAN 1/2" ABOVE FINISH GRADE.
2. COMPACT GRADE ADJACENT TO EDGING TO PREVENT SETTLING.
3. INSTALL STAKES: A MINIMUM OF 5 STAKES PER SECTION ARE TO BE USED WITH EACH SECTION OF EDGING.
4. SECTIONS TO LOCK TOGETHER WITHOUT OFFSET OR DOUBLE THICKNESS AT THE JOINTS AND SECURED WITH TWO 12" STAKES AT EVERY JOINT.



B STEEL EDGING SECTION

SECTION

SCALE: 1" = 1'

C RECTANGULAR ACCESSIBLE PICNIC TABLE ELEVATION | PLAN

ELEVATION | PLAN

SCALE: 3/4" = 1'-0"

D WASTE AND RECYCLE RECEPTACLE ELEVATION | PLAN

ELEVATION | PLAN

SCALE: NTS

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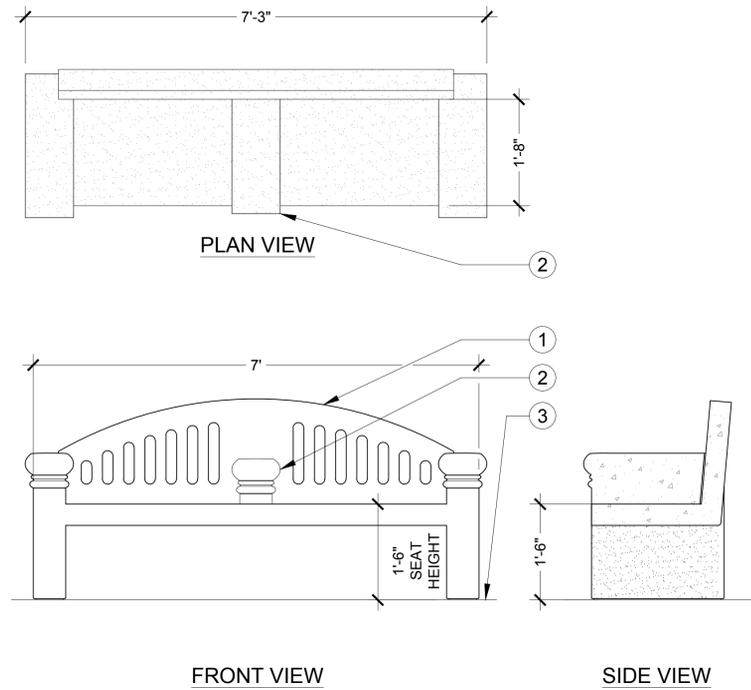


ALAMO RIVER TRESTLE
BRIDGE MODIFICATIONS
HOLTVILLE, CALIFORNIA

LANDSCAPE
CONSTRUCTION
DETAILS

L-104

SHEET 24 OF 41



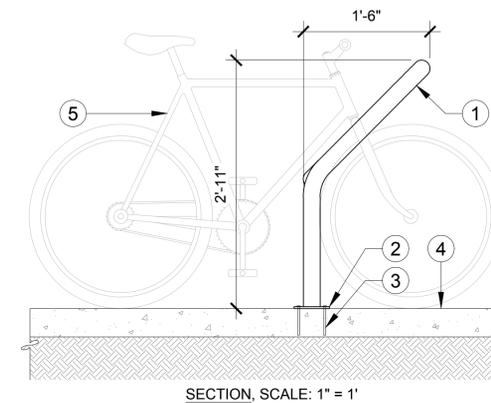
NOTES:

- A. PRODUCT SHALL BE BY QCP, OR EQUAL AS APPROVED BY LANDSCAPE ARCHITECT AND CITY RESIDENT ENGINEER.
- B. BENCHES REQUIRE ADHESIVE APPLIED TO COVER BOTTOM OF ENTIRE BENCH LEGS AT INSTALLATION ON PAVEMENT.
- C. INSTALL PER MANUFACTURER'S RECOMMENDATIONS.

LEGEND

- ① CONCRETE BENCH, REFER TO SHEET L-103 LEGEND FOR COLOR AND FINISH
- ② ARMREST AS PER MANUFACTURER
- ③ FINISHED SURFACE CONCRETE PAVING

A BENCH WITH BACK AND ARMREST
ELEVATION | SECTION SCALE: NTS

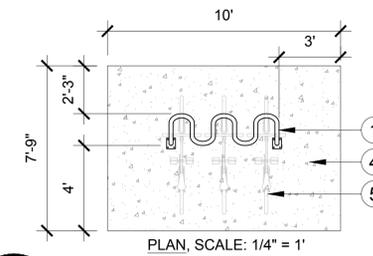


LEGEND

- ① HI-ROLLER 4H BIKE RACK
- ② FLANGE MOUNTING PLATE
- ③ STAINLESS STEEL MASONRY ANCHOR (4 PER MOUNTING PLATE)
- ④ CONCRETE PAD. REFER TO CIVIL DRAWINGS FOR CONCRETE DETAILS
- ⑤ BIKE SHOWN FOR REFERENCE

NOTES:

- 1. REFER TO CONSTRUCTION LEGEND ON SHEET L-103 FOR COLORS AND FINISHES.
- 2. INSTALL PER MANUFACTURER'S RECOMMENDATIONS.



B BIKE RACK
PLAN | SECTION SCALE: VARIES

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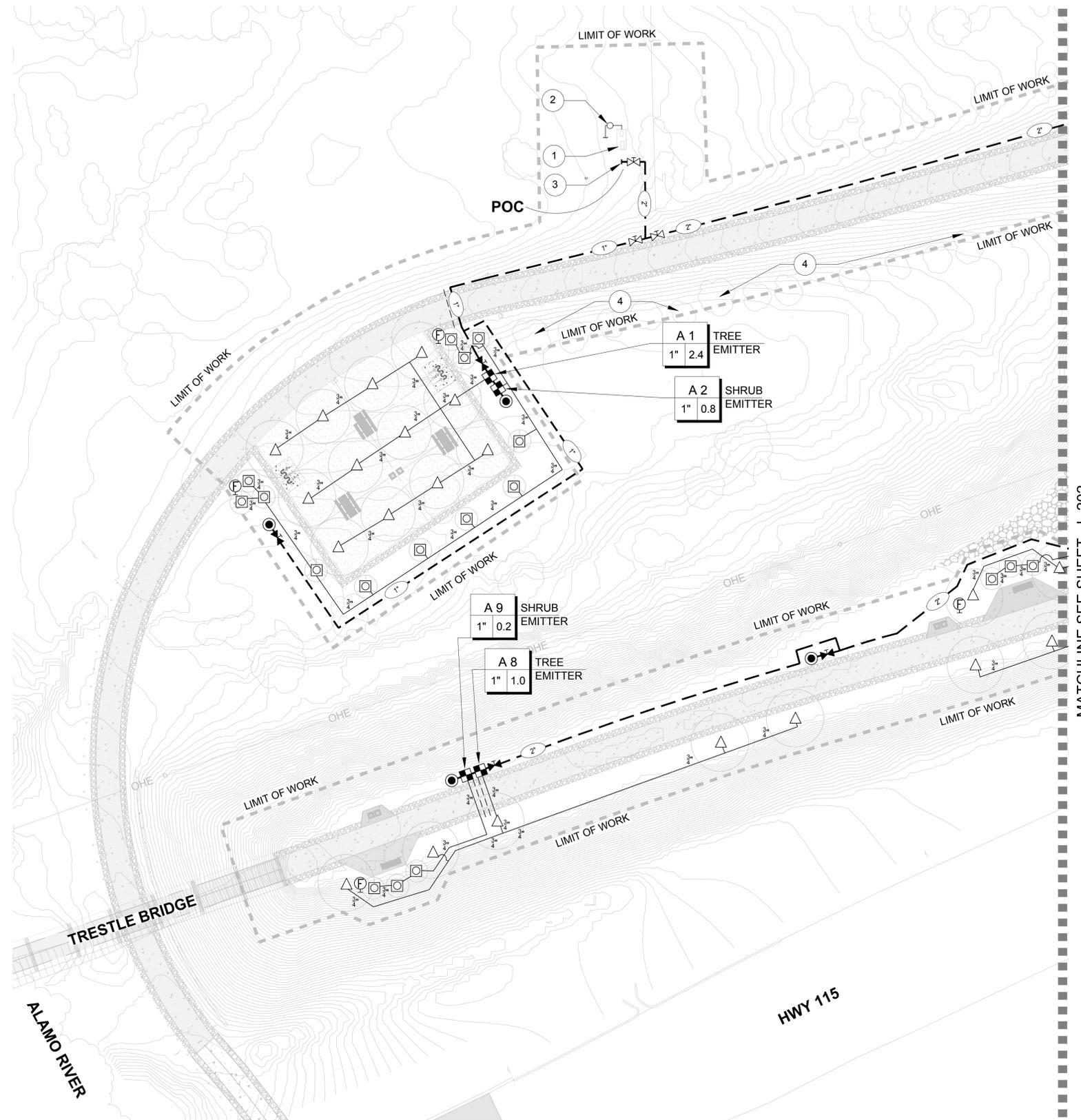
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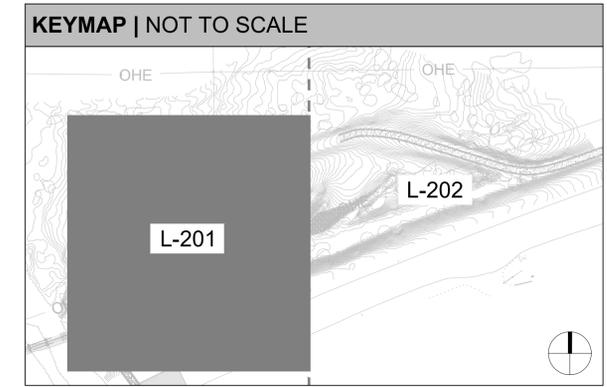
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HOLTVILLE, CALIFORNIA**

**LANDSCAPE
CONSTRUCTION
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L-105
SHEET 25 OF 41

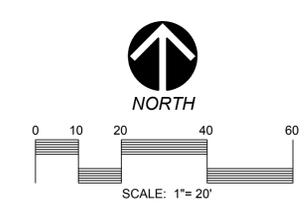


SHEET LEGEND (SEE SHEET L-203 FOR FULL LEGEND)	
SYMBOL	DESCRIPTION
	TREE EMITTER (3 EMITTERS PER TREE)
	SHRUB EMITTER (1 EMITTER PER SHRUB)
	BALL VALVE (MAINLINE ISOLATION)
	BALL VALVE (MANIFOLD ISOLATION)
	DRIP REMOTE CONTROL VALVE
	DRIP FLUSH VALVE
	QUICK COUPLING VALVE
	IRRIGATION MAINLINE (SIZE AS NOTED ON PLAN)
	IRRIGATION LATERAL LINE (SIZE AS NOTED ON PLAN)
	PIPE SLEEVE



IRRIGATION KEY NOTES	
1	EXISTING 1" IRRIGATION WATER METER, 1" BACKFLOW PREVENTER W/ WYE STRAINER IN ENCLOSURE- PROTECT IN PLACE. EXISTING IRRIGATION 1" WATER METER AND 1" BACKFLOW PREVENTER IS CONNECTED WITH A 1" PIPE TO THE EXISTING 3" WATER MAIN (NOT SHOWN ON THIS PLAN).
2	EXISTING CONTROL VALVE FOR EXISTING TREES - PROTECT IN PLACE.
3	POINT OF CONNECTION FOR NEW IRRIGATION: EXISTING 1" IRRIGATION MAINLINE BRANCH EXTENDS FROM EXISTING 3" MAIN (NOT SHOWN ON THIS PLAN). EXISTING 1" IRRIGATION WATER METER, AND 1" BACKFLOW PREVENTER IN ENCLOSURE ARE LOCATED DOWNSTREAM OF THE 1" MAINLINE EXTENDING FROM 3" MAIN. CONNECT TO EXISTING 3" MAINLINE WITH 2" MAINLINE, AND INSTALL NEW 2" WATER METER AND 2" BACKFLOW PREVENTER IN ENCLOSURE. EXTEND 2" MAINLINE TO NEW SYSTEM.
4	EXISTING TREE BUBBLER IRRIGATION - PROTECT IN PLACE.

SHEET NOTES	
1.	REFER TO SHEETS L-301 AND L-302 FOR THE PLANTING PLAN.
2.	REFER TO SHEET L-303 FOR PLANTING LEGEND AND NOTES.
3.	REFER TO SHEET L-304 FOR PLANTING DETAILS.
4.	REFER TO SHEET L-203 FOR IRRIGATION LEGEND, NOTES AND CALCULATIONS.
5.	REFER TO SHEETS L-204 TO L-205 FOR IRRIGATION DETAILS.
6.	REFER TO SPECIFICATIONS FOR ADDITIONAL INFORMATION.
7.	IRRIGATION MAINLINE, LATERAL LINE AND VALVE MANIFOLDS ARE SHOWN DIAGRAMMATICALLY FOR DRAWING CLARITY. INSTALL MAINLINE WHENEVER POSSIBLE 18" OUTSIDE OF PROPOSED METAL EDGING SHOWN ON LANDSCAPE CONSTRUCTION PLANS.



DWG. NO.	L-201
IRRIGATION PLAN	SHEET 26 OF 41

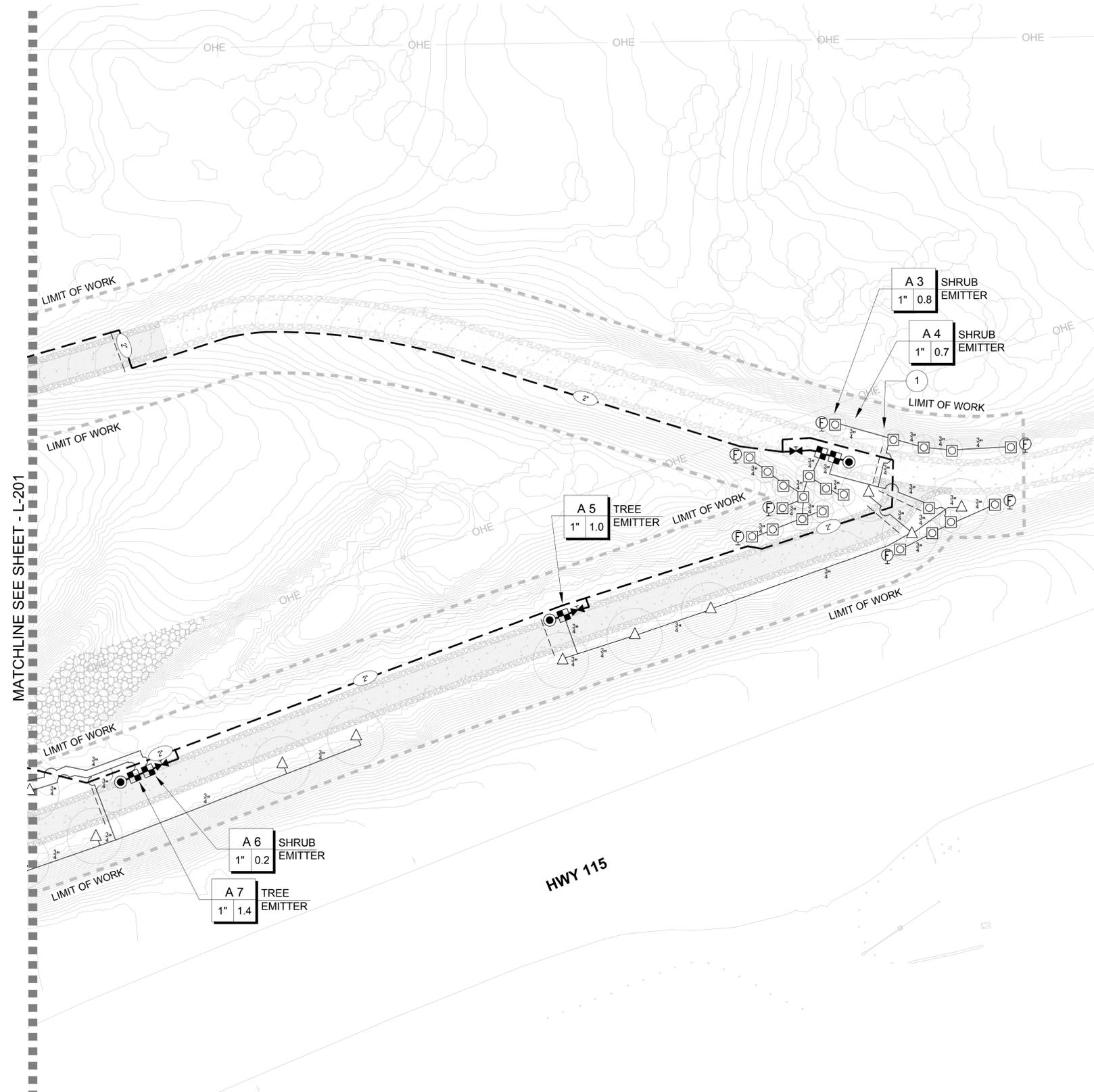
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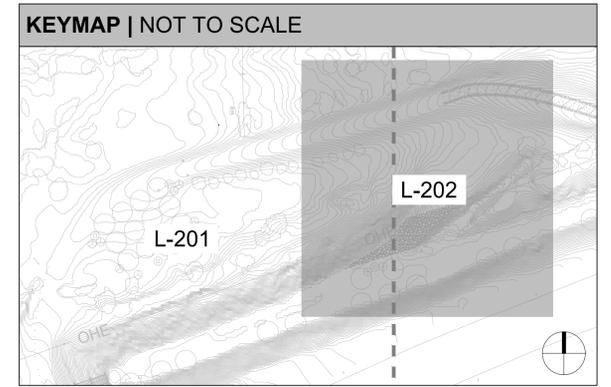
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ALAMO RIVER TRESTLE BRIDGE MODIFICATIONS
HOLTVILLE, CALIFORNIA

ISSUED FOR CONSTRUCTION PLANS

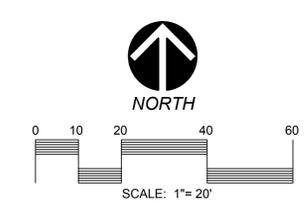


SHEET LEGEND (SEE SHEET L-203 FOR FULL LEGEND)	
SYMBOL	DESCRIPTION
	TREE EMITTER (3 EMITTERS PER TREE)
	SHRUB EMITTER (1 EMITTER PER SHRUB)
	BALL VALVE (MAINLINE ISOLATION)
	BALL VALVE (MANIFOLD ISOLATION)
	DRIP REMOTE CONTROL VALVE
	DRIP FLUSH VALVE
	QUICK COUPLING VALVE
	IRRIGATION MAINLINE (SIZE AS NOTED ON PLAN)
	IRRIGATION LATERAL LINE (SIZE AS NOTED ON PLAN)
	PIPE SLEEVE



IRRIGATION KEY NOTES	
1	SAWCUT AND REMOVE EXISTING CONCRETE PANEL FOR TRENCH WITH (2) NEW 3" x 15 FT LONG PVC IRRIGATION SLEEVES. REFER TO CIVIL PLANS FOR PAVEMENT REPLACEMENT.

SHEET NOTES	
1.	REFER TO SHEETS L-301 AND L-302 FOR THE PLANTING PLAN.
2.	REFER TO SHEET L-303 FOR PLANTING LEGEND AND NOTES.
3.	REFER TO SHEET L-304 FOR PLANTING DETAILS.
4.	REFER TO SHEET L-203 FOR IRRIGATION LEGEND, NOTES AND CALCULATIONS.
5.	REFER TO SHEETS L-204 TO L-205 FOR IRRIGATION DETAILS.
6.	REFER TO SPECIFICATIONS FOR ADDITIONAL INFORMATION.
7.	IRRIGATION MAINLINE, LATERAL LINE AND VALVE MANIFOLDS ARE SHOWN DIAGRAMMATICALLY FOR DRAWING CLARITY. INSTALL MAINLINE WHENEVER POSSIBLE 18" OUTSIDE OF PROPOSED METAL EDGING SHOWN ON LANDSCAPE CONSTRUCTION PLANS.



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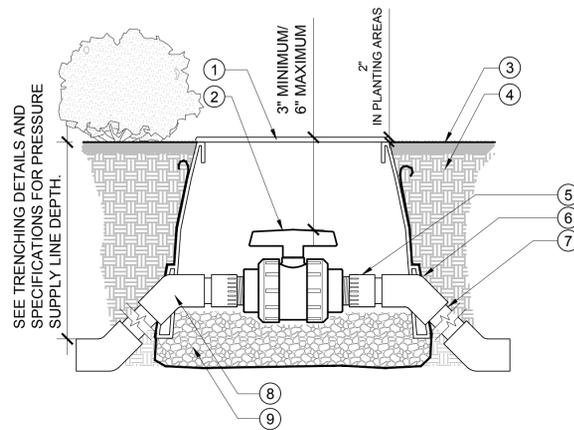
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**ALAMO RIVER TRESTLE
BRIDGE MODIFICATIONS
HOLTVILLE, CALIFORNIA**

**IRRIGATION
PLAN**

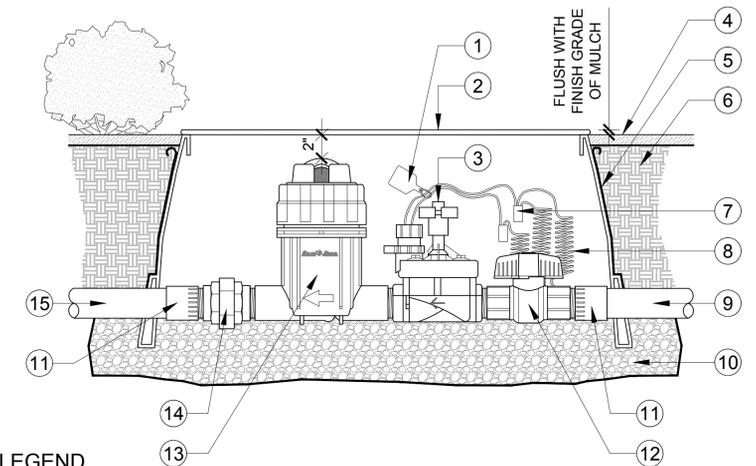
L-202

SHEET 27 OF 41



- ① VALVE BOX, SEE SPECS. (DO NOT CUT ADDITIONAL HOLES IN BOX)
- ② ISOLATION BALL VALVE. REFER TO LEGEND
- ③ FINISH GRADE
- ④ BACKFILL MATERIAL 95% COMPACTED
- ⑤ PVC SCH 80 MALE ADAPTER, MIPT X SLIP, LINE/VALVE SIZE
- ⑥ FILTER FABRIC (MIRAFI #140N). WRAP 1 LAYER AROUND BOX, COVERING HOLES
- ⑦ PRESSURE SUPPLY. LENGTH AS REQUIRED. REFER TO LEGEND FOR CLASS
- ⑧ PVC SCH 40, 45 DEGREE ELL'S. (4) REQUIRED
- ⑨ 1 CU FT GRAVEL BASE AND SUMP. (COMPACT GRAVEL FOR BOX BASE, DO NOT USE BLOCKS OR BRICKS, FILL GRAVEL TO BOTTOM OF VALVE)

NOTE:
USE TEFLON TAPE ON ALL THREADED CONNECTIONS.



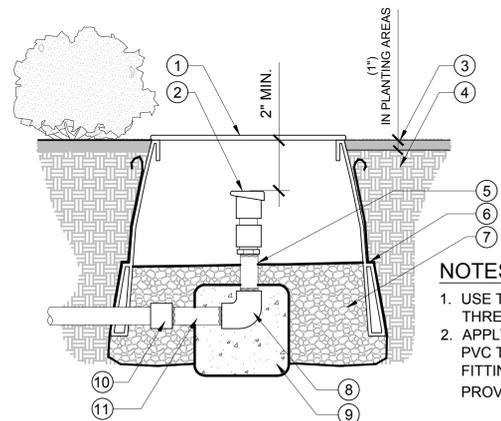
LEGEND

- ① VALVE I.D. TAG. (THREAD NYLON TIE THROUGH HOLE IN TAG)
- ② RECTANGULAR JUMBO VALVE BOX WITH LID, SEE SPECIFICATIONS (DO NOT CUT ADDITIONAL HOLES IN BOX)
- ③ CONTROL VALVE PER LEGEND, SEE PLAN FOR SIZE
- ④ FINISH GRADE OF MULCH
- ⑤ FILTER FABRIC (MIRAFI #140N). WRAP 1 LAYER AROUND BOX, COVERING HOLES
- ⑥ BACKFILL MATERIAL
- ⑦ WATERPROOF WIRE CONNECTOR
- ⑧ CONTROL WIRE W/ 24" COILED EXPANSION LOOP
- ⑨ PRESSURE SUPPLY LINE FROM MANIFOLD
- ⑩ GRAVEL BASE AND SUMP. (COMPACT GRAVEL FOR BOX BASE, DO NOT USE BLOCKS OR BRICKS, FILL GRAVEL TO BOTTOM OF VALVE)
- ⑪ PVC SCH 80 MALE ADAPTER (MIPT X SLIP), 2 REQUIRED.
- ⑫ BALL VALVE (NOT REQUIRED)
- ⑬ FILTER
- ⑭ PVC SCH 80 SINGLE UNION, MIPT X FIPT MODEL
- ⑮ PVC NON-PRESSURE LATERAL LINE, SEE PLAN FOR SIZE

NOTE:
1. USE TEFLON TAPE ON ALL THREADED CONNECTIONS.

A ISOLATION BALL VALVE SECTION

NOT TO SCALE



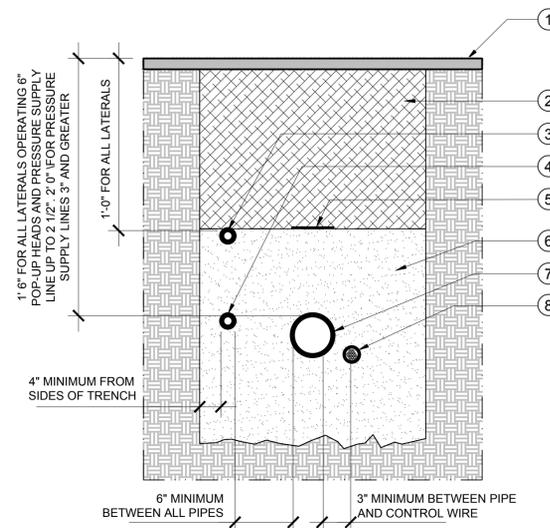
NOTES:

- 1. USE TEFLON TAPE ON ALL THREADED CONNECTIONS.
- 2. APPLY ADHESIVE BACKED BLACK PVC TAPE TO METAL PIPE AND FITTINGS EXPOSED TO CONCRETE. PROVIDE 1/2" OVERLAP.

- ① VALVE BOX, SEE SPECS. (DO NOT CUT ADDITIONAL HOLES IN BOX)
- ② QUICK COUPLING VALVE. REFER TO LEGEND.
- ③ FINISH GRADE OF MULCH
- ④ BACKFILL MATERIAL. 95% COMPACTED
- ⑤ THREADED BRASS PIPE RISER. LENGTH AS REQUIRED
- ⑥ FILTER FABRIC (MIRAFI #140N). WRAP 1 LAYER AROUND BOX, COVERING HOLES
- ⑦ 1 CU FT GRAVEL BASE AND SUMP. (COMPACT GRAVEL FOR BOX BASE, DO NOT USE BLOCKS OR BRICKS, FILL GRAVEL TO BOTTOM OF VALVE)
- ⑧ BRASS 90 DEGREE ELL. 1 CU.FT MINIMUM
- ⑨ CONCRETE THRUST BLOCK. 1 CU.FT MINIMUM
- ⑩ BRASS COUPLING WITH PVC SCH 80 MALE ADAPTER. SLIP X MPT
- ⑪ THREADED BRASS NIPPLE. LENGTH AS REQUIRED

C QUICK COUPLER VALVE SECTION

NOT TO SCALE



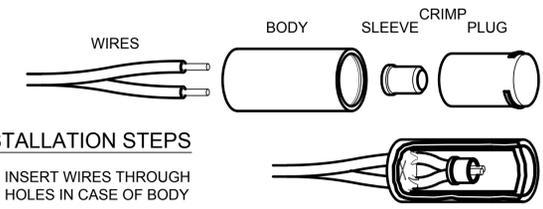
- ① FINISH GRADE OF MULCH
- ② BACKFILL MATERIAL, FREE FROM ALL ROCK AND DEBRIS GREATER THAN ONE INCH
- ③ NON-PRESSURE LATERAL LINE FOR POP-UPS 6" OR LESS. SEE LEGEND FOR CLASS, REFER TO PLAN FOR SIZE
- ④ NON-PRESSURE LATERAL LINE FOR 12" POP-UP HEADS. SEE LEGEND FOR CLASS, REFER TO PLAN FOR SIZE
- ⑤ 3" DETECTABLE MARKING TAPE.
- ⑥ NATIVE BACKFILL MATERIAL. FREE FROM ALL ROCK AND DEBRIS GREATER THAN ONE HALF INCH. 6" ABOVE AND 6" BELOW PRESSURE SUPPLY LINE
- ⑦ PRESSURE SUPPLY LINE. SEE LEGEND FOR CLASS, REFER TO PLAN FOR SIZE
- ⑧ CONTROL WIRES WITH MOISTURE PROBE WIRE (WIRE PER SOIL SENSOR MANUFACTURER), BURIED 2" AWAY FROM AND BESIDE PRESSURE SUPPLY LINE. BUNDLE WIRES TOGETHER WITH TAPE AT 10' MAXIMUM INTERVALS (AS APPLIES)
- ⑨ 1 CU FT GRAVEL BASE AND SUMP. (COMPACT GRAVEL FOR BOX BASE, DO NOT USE BLOCKS OR BRICKS, FILL GRAVEL TO BOTTOM OF VALVE)

D TRENCH IN LANDSCAPE SECTION

NOT TO SCALE

B DRIP REMOTE CONTROL VALVE SECTION

NOT TO SCALE



INSTALLATION STEPS

- ① INSERT WIRES THROUGH HOLES IN CASE OF BODY
- ② TWIST STRIPPED WIRES TOGETHER AND APPLY CRIMP SLEEVE WITH AN INDENT TYPE CRIMPING TOOL. TRIM EXCESS BARBED WIRE
- ③ PUSH WIRES ALL THE WAY INTO THE PLUG TO COMPLETELY SEAL THE CRIMP
- ④ FILL PLUG WITH SEALANT
- ⑤ INVERT BODY AND INSERT PLUG INTO BODY UNTIL IT SNAPS TIGHT

NOTES:

- 1. FITS AWG #18, #16, #14, #12 OR #10 WIRE.
- 2. FOR TWO-WIRE SYSTEM USE CONNECTOR SPECIFIED IN LEGEND.

E WATERPROOF WIRE CONNECTOR SECTION

NOT TO SCALE

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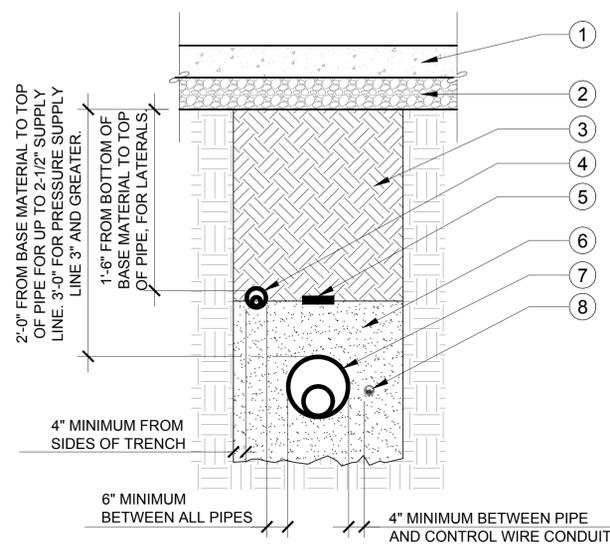


ALAMO RIVER TRESTLE
BRIDGE MODIFICATIONS
HOLTVILLE, CALIFORNIA

IRRIGATION
DETAILS

L-204

SHEET 29 OF 41

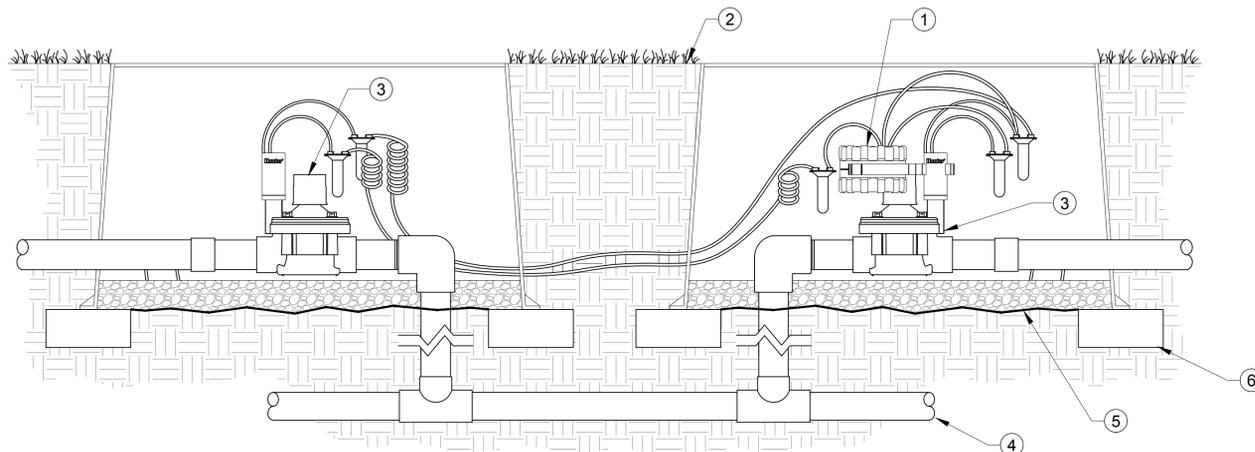


LEGEND

- ① HARDSCAPE MATERIAL
- ② BASE MATERIAL
- ③ 95% COMPACTED BACKFILL MATERIAL. FREE FROM ALL ROCK AND DEBRIS GREATER THAN ONE INCH SIZE
- ④ NON-PRESSURE LATERAL LINE IN PVC SCH 40 SLEEVE MINIMUM TWICE THE DIAMETER OF THE LINE RUNNING THROUGH. ALL LATERAL LINES SHALL BE AT THE SAME DEPTH UNDER HARDSCAPE
- ⑤ 3" DETECTABLE MARKING TAPE
- ⑥ 95% COMPACTED BACKFILL SOIL FREE FROM ALL ROCK AND DEBRIS GREATER THAN ONE-HALF INCH SIZE. 6" ABOVE AND 6" BELOW PRESSURE SUPPLY LINE
- ⑦ PRESSURE SUPPLY LINE IN PVC SCH 40 SLEEVE TWICE THE DIAMETER OF THE LINE RUNNING THROUGH
- ⑧ SCH 40 PVC ELECTRICAL CONDUIT FOR ALL IRRIGATION WIRES. SEE LEGEND FOR CLASS, REFER TO SPECIFICATIONS FOR SIZES (WHERE APPLIES)

A TRENCH IN HARDSCAPE SECTION

SCALE: N.T.S.

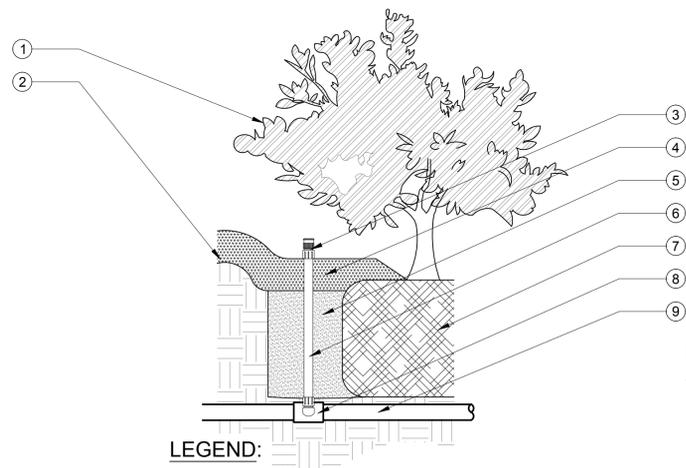


LEGEND

- ① IRRIGATION CONTROLLER (NODE) PER PLAN (1, 2 OR 4 STATION)
- ② FINISH GRADE
- ③ VALVE(S) PER PLAN
- ④ PVC MAINLINE
- ⑤ FILTER FABRIC (MIRAFI #140N). WRAP 1 LAYER AROUND BOX, COVERING HOLES. 1/2" GALVANIZED STEEL HARDWARE CLOTH AROUND FILTER FABRIC COVERING ALL HOLES
- ⑥ BRICK

B NODE ON VALVE WITH MULTIPLE VALVES IN VALVE MANIFOLD SECTION

NOT TO SCALE



LEGEND:

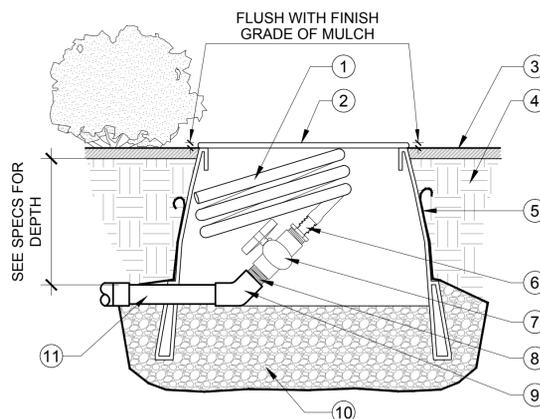
- ① SHRUB OR GROUNDCOVER
- ② PLANT WATERING BASIN
- ③ EMITTER, SCREEN AND CHECK VALVE. INSTALL 2" ABOVE MULCH FINISH GRADE
- ④ MULCH PER PLANTING DETAILS
- ⑤ AMENDED BACKFILL
- ⑥ 1/2" X 12" FLEXIBLE PVC RISER
- ⑦ PLANT ROOT BALL
- ⑧ PVC SCH 40 S X S X T TEE (OR ELBOW) WITH MARLEX 90 (LATERAL SIZE X 1/2" FIPT)
- ⑨ LATERAL LINE (DEPTH OF COVER PER TRENCH DETAIL)

NOTES:

1. INSTALL DRIP EMITTER INSIDE OF PLANT WATERING BASIN ADJACENT TO ROOT BALL, ON UPHILL SIDE.
2. FLEXIBLE PVC RISERS SHALL BE PREFABRICATED BY THE MANUFACTURER.
3. USE TEFLON TAPE ON ALL THREADED CONNECTIONS.

C SHRUB EMITTER ASSEMBLY SECTION

NOT TO SCALE



LEGEND

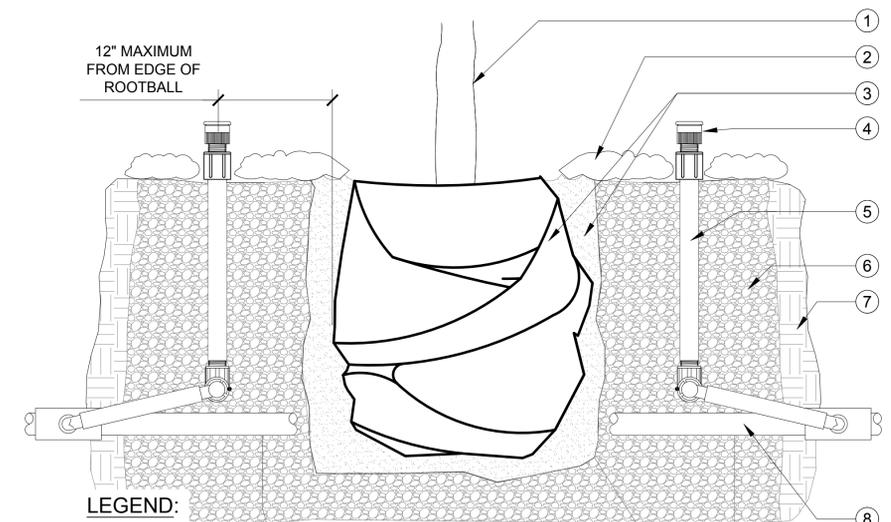
- ① 18" MINIMUM LENGTH OF 1/2" FLEXIBLE PVC HOSE
- ② VALVE BOX WITH LID. (DO NOT CUT ADDITIONAL HOLES IN BOX)
- ③ FINISH GRADE OF MULCH
- ④ BACKFILL MATERIAL
- ⑤ FILTER FABRIC (MIRAFI #140N). WRAP 1 LAYER AROUND BOX, COVERING HOLES. 1/2" GALVANIZED STEEL HARDWARE CLOTH AROUND FILTER FABRIC COVERING ALL HOLES
- ⑥ PVC SCH 40, 3/4" MIPT X 1/2" BARB HOSE ADAPTER
- ⑦ PVC SCH 40, 3/4" FIPT X FIPT BALL VALVE
- ⑧ PVC SCH 40, 3/4" THREADED NIPPLE
- ⑨ PVC SCH 40, 45 DEGREE ELL
- ⑩ GRAVEL BASE AND SUMP. (COMPACT GRAVEL FOR BOX BASE, DO NOT USE BLOCKS OR BRICKS, FILL GRAVEL TO BOTTOM OF VALVE)
- ⑪ TERMINAL END OF NON-PRESSURE LATERAL LINE

NOTE:

1. USE TEFLON TAPE ON ALL THREADED CONNECTIONS.

D DRIP FLUSH VALVE (MANUAL OPERATION) SECTION

NOT TO SCALE



LEGEND:

- ① TREE. PER PLANTING PLANS
- ② MULCH MATERIAL PER PLANTING PLANS
- ③ TREE ROOTBALL AND PLANTING BACKFILL
- ④ TOP OF BUBBLER 2" ABOVE FINISH GRADE OF MULCH
- ⑤ TREE EMITTER, SCREEN AND CHECK VALVE. REFER TO LEGEND FOR MODEL NUMBER
- ⑥ CLEAN AMENDED BACKFILL SOIL, WITH LESS THAN 1" DIA. ROCK ALLOWABLE. COMPACTED TO 85% ALL AROUND BUBBLER ASSEMBLY
- ⑦ EXISTING SUBGRADE
- ⑧ LATERAL LINE. SEE PLANS FOR SIZE & CLASS

NOTES:

1. DETAIL MAY NOT INDICATE NUMBER OF EMITTERS PER TREE IN THE DESIGN. REFER TO LEGEND AND PLANS FOR EMITTER SPECIFICATION.
2. TREE EMITTER ARE TO BE PLACED ON THE UPHILL SIDE OF TREES ON ALL SLOPED GRADE AREAS. INSTALL EMITTERS EQUIDISTANT FROM EACH OTHER AND ON OPPOSITE SIDE OF TREE DRAIN/OBSERVATION TUBES.
3. USE TEFLON TAPE ON ALL THREADED CONNECTIONS.

E TREE EMITTER ASSEMBLY SECTION

NOT TO SCALE

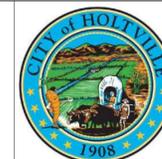
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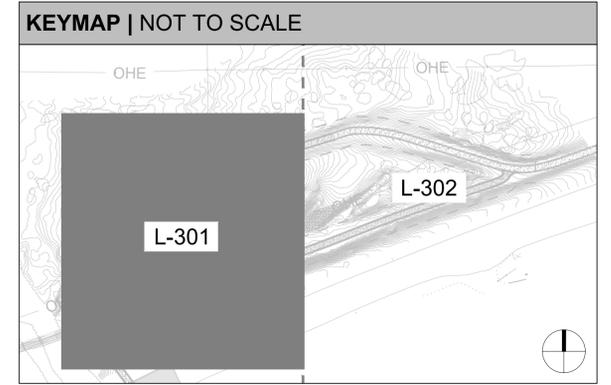
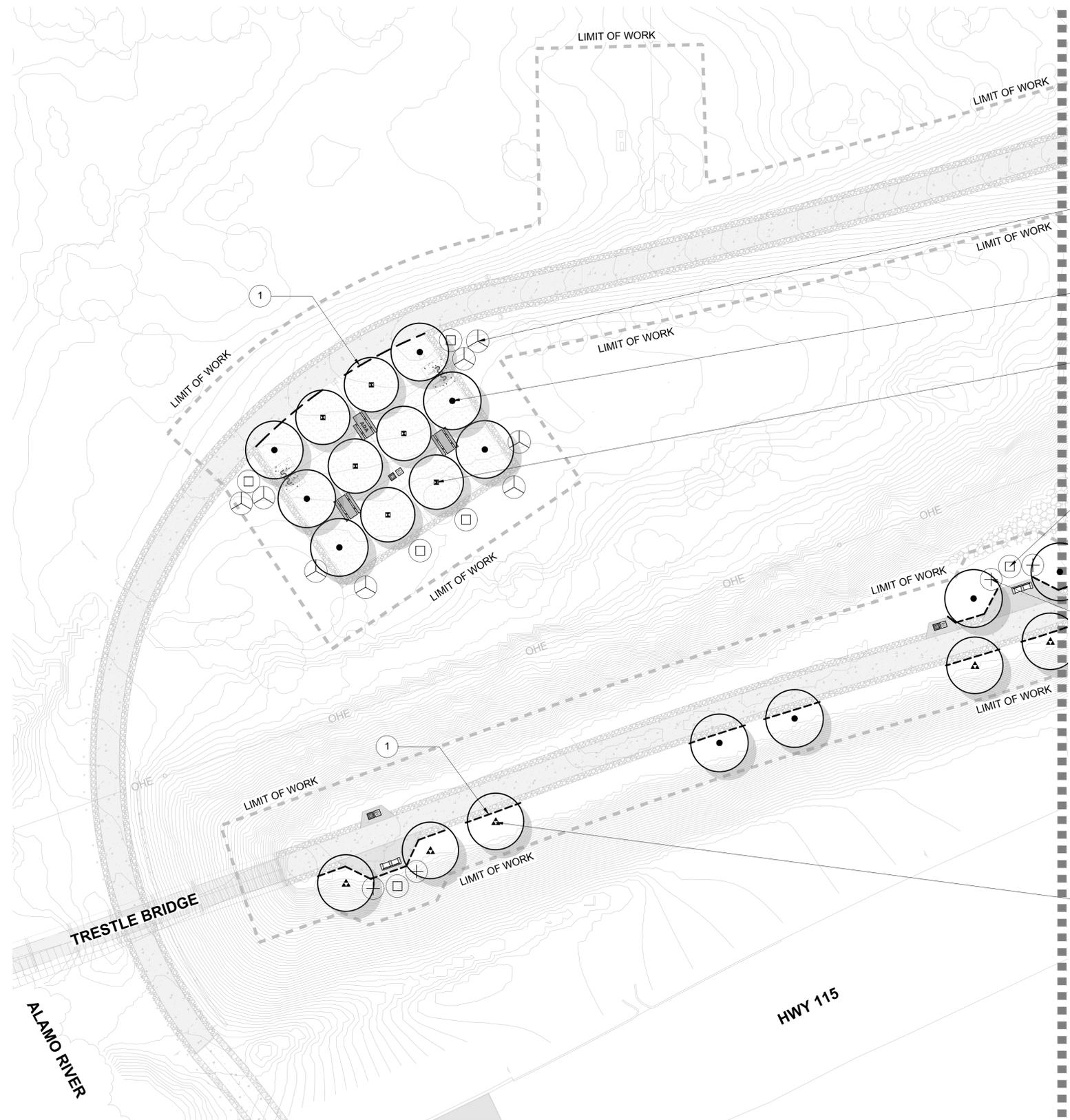


**ALAMO RIVER TRESTLE
BRIDGE MODIFICATIONS
HOLTVILLE, CALIFORNIA**

**IRRIGATION
DETAILS**

L-205

SHEET 30 OF 41

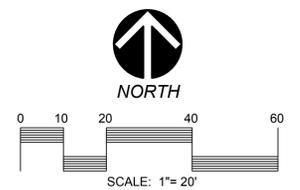


KEY NOTES

1 ROOT BARRIER: REFER TO DETAIL 'C' ON SHEET L-304

SHEET NOTES

- REFER TO SHEET L-103 FOR LANDSCAPE CONSTRUCTION LEGEND, MATERIALS AND NOTES.
- REFER TO SHEET L-303 FOR LANDSCAPE PLANTING MATERIALS AND NOTES.
- REFER TO SHEET L-304 FOR LANDSCAPE PLANTING DETAILS.
- REFER TO SPECIFICATIONS FOR ADDITIONAL INFORMATION.



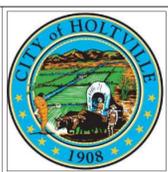
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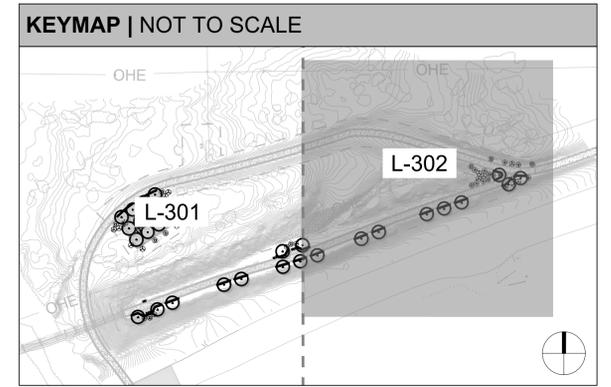
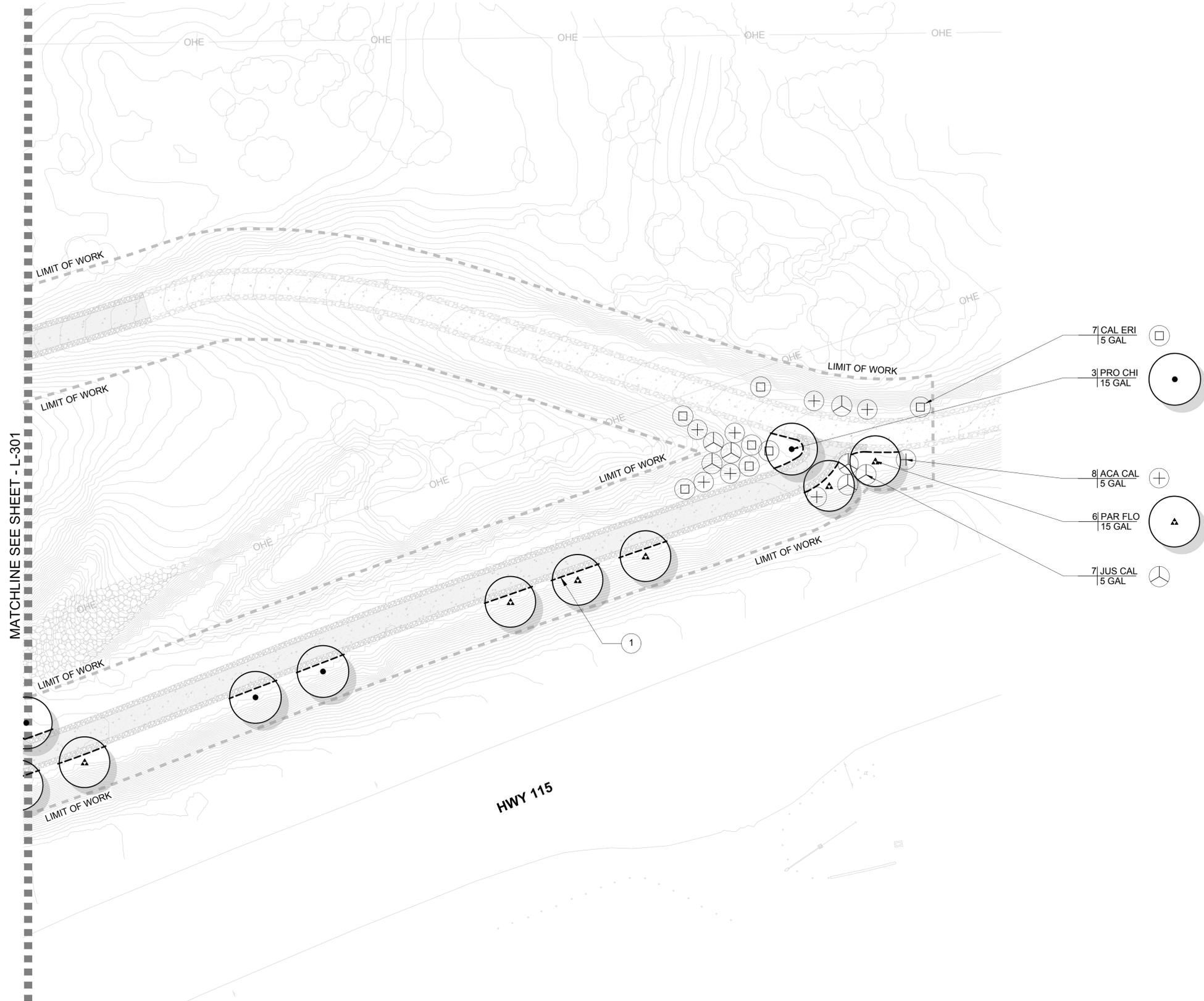


**ALAMO RIVER TRESTLE
BRIDGE MODIFICATIONS
HOLTVILLE, CALIFORNIA**

**PLANTING
PLAN**

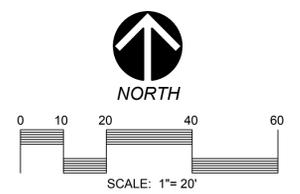
L-301
SHEET 31 OF 41

ISSUED FOR CONSTRUCTION PLANS



KEY NOTES	
1	ROOT BARRIER: REFER TO DETAIL 'C' ON SHEET L-304

SHEET NOTES	
1.	REFER TO SHEET L-103 FOR LANDSCAPE CONSTRUCTION LEGEND, MATERIALS AND NOTES.
2.	REFER TO SHEET L-303 FOR LANDSCAPE PLANTING MATERIALS AND NOTES.
3.	REFER TO SHEET L-304 FOR LANDSCAPE PLANTING DETAILS.
4.	REFER TO SPECIFICATIONS FOR ADDITIONAL INFORMATION.



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**ALAMO RIVER TRESTLE
BRIDGE MODIFICATIONS
HOLTVILLE, CALIFORNIA**

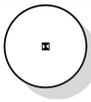
**PLANTING
PLAN**

L-302
SHEET 32 OF 41

LANDSCAPE PLANTING NOTES

- ALL FINISH GRADING AND LANDSCAPE OPERATIONS SHALL BE CARRIED OUT IN ACCORDANCE WITH THE PROJECT DRAWINGS, DETAILS, AND PROJECT SPECIFICATIONS. REFER TO PROJECT SPECIFICATIONS FOR ALL PLANTING REQUIREMENTS.
- SEE SHEET L-304 FOR PLANTING DETAILS. SEE LANDSCAPE SPECIFICATIONS FOR ADDITIONAL INFORMATION.
- THE CONTRACTOR SHALL BE RESPONSIBLE FOR THE REVIEW AND COORDINATION OF ALL DRAWINGS AND SPECIFICATIONS PRIOR TO THE START OF CONSTRUCTION. THE CONTRACTOR SHALL INFORM THE RESIDENT ENGINEER AND THE LANDSCAPE ARCHITECT IMMEDIATELY OF ANY CHANGED CONDITIONS WHICH OCCUR ON PROJECT SITE WHICH ARE NOT REFLECTED ON PLANS.
- REMOVE ALL WEEDS, DEBRIS, AND ROCKS LARGER THAN ONE INCH (1") FROM ALL PLANTING AREAS, AND DISPOSE OF APPROPRIATELY OFF-SITE.
- FINISH GRADE OF SOIL SHALL BE 2-INCHES (2") BELOW ADJACENT FINISH PAVING SURFACE OR CURB IN SHRUB AND GROUND COVER AREAS. SEE DETAIL E/L-304 FOR TAPER OF FINISH GRADE WITH BARK MULCH.
- CONTRACTOR SHALL INSTALL A THREE-INCH (3") LAYER OF BARK MULCH IN ALL DESIGNATED TREE AND SHRUB AREAS, EXCEPT WHERE SPECIFIED OTHERWISE, IN LOCATIONS WITH SLOPES OF LESS THAN A 3:1 GRADIENT. A SAMPLE MUST BE SUBMITTED FOR APPROVAL BY THE OWNER'S REPRESENTATIVE AND THE LANDSCAPE ARCHITECT.
- REFER TO SPECIFICATIONS. CONTRACTOR SHALL PROVIDE ELECTRONIC PHOTOGRAPHS OF ALL PLANTS FOR APPROVAL PRIOR TO PURCHASE AND INSTALLATION. REFER TO SPECIFICATIONS.
- CONTRACTOR SHALL NOTIFY THE RESIDENT ENGINEER AT THE TIME OF DELIVERY OF ANY PLANT MATERIAL WHICH HAS BEEN DAMAGED OR IS IN POOR CONDITION. THE RESIDENT ENGINEER SHALL DETERMINE ACCEPTABILITY OF SUBJECT PLANT MATERIAL.
- PLANT MATERIAL SHALL BE INSPECTED BY THE RESIDENT ENGINEER BEFORE PLANTING. PLANT MATERIAL MAY BE REJECTED AT ANY TIME BY THE RESIDENT ENGINEER DUE TO POOR CONDITION, FORM, OR DAMAGE PRIOR TO, DURING, OR AFTER THE PLANTING PROCESS.
- AT LEAST ONE PLANT OF EACH SPECIES DELIVERED TO THE SITE SHALL HAVE AN IDENTIFICATION TAG FROM THE SUPPLYING NURSERY SHOWING BOTH COMMON AND SCIENTIFIC NAMES.
- THE PLANTING PLANS ARE DIAGRAMMATIC. PLANT MATERIALS SHALL BE SPOTTED AS SHOWN ON THE DRAWINGS. TREE LOCATIONS ARE TO BE APPROVED BY THE RESIDENT ENGINEER PRIOR TO THE EXCAVATION OF PLANTING PITS AND REMOVAL FROM CONTAINERS. FINAL LAYOUT OF ALL OTHER PLANT MATERIALS SHALL BE APPROVED IN THE FIELD BY THE RESIDENT ENGINEER PRIOR TO PLANTING.
- CONTRACTOR SHALL BE RESPONSIBLE FOR VERIFYING ALL PLANT COUNTS AND SQUARE FOOTAGES.
- CONTRACTOR IS RESPONSIBLE FOR PROVIDING PLANT MATERIALS SUFFICIENT TO COVER AREAS SHOWN ON THE DRAWINGS AT THE SPECIFIED SPACING.
- CONTRACTOR SHALL SUBMIT AN AGRICULTURAL SUITABILITY AND FERTILITY ANALYSIS REPORT, AS NOTED IN THE PLANTING SPECIFICATIONS, TO THE LANDSCAPE ARCHITECT AND THE RESIDENT ENGINEER FOR APPROVAL PRIOR TO ANY PLANTING WORK OR SOIL AMENDMENT INCORPORATION. THE RECOMMENDATIONS OF THE SOILS ANALYSIS REPORT FOR TOPSOIL AMENDMENT AND BACKFILL MIX AMENDMENT SHALL SUPERSEDE THE RECOMMENDATIONS LISTED IN THE SPECIFICATIONS.
- CONTRACTOR SHALL COORDINATE LANDSCAPE WORK WITH THE WORK OF OTHER TRADES AND PROFESSIONS. CONTRACTOR SHALL MAINTAIN PROPER DRAINAGE DURING THE COURSE OF CONSTRUCTION.
- CONTRACTOR IS RESPONSIBLE FOR COORDINATION OF EXISTING PROPOSED UTILITIES WITHIN THE PROJECT LIMITS WHICH MAY BE AFFECTED BY INSTALLATION. IMMEDIATELY CONTACT THE RESIDENT ENGINEER IF A CONFLICT IS EVIDENT.
- REMOVE ALL TYING MATERIALS, MARKING TAPES, AND NURSERY STAKES AT THE TIME OF PLANTING.
- CONTRACTOR SHALL PROTECT EXISTING VEGETATION AND OTHER IMPROVEMENTS OUTSIDE THE LIMITS OF WORK. CONTRACTOR SHALL BE RESPONSIBLE FOR THE REPAIR OR REPLACEMENT OF ANY DAMAGES INCURRED DURING CONSTRUCTION.
- THE MAINTENANCE PERIOD SHALL BEGIN ONLY UPON WRITTEN ACCEPTANCE OF THE COMPLETED PLANTED AREAS BY THE LANDSCAPE ARCHITECT AND THE RESIDENT ENGINEER.
- PROVIDE MATCHING FORMS AND SIZES FOR ALL PLANT MATERIAL WITHIN EACH SPECIES AND SIZE DESIGNATED BY THE DRAWINGS.
- ALIGN AND EQUALLY SPACE, IN ALL DIRECTIONS, ALL PLANT MATERIAL WITHIN EACH SPECIES SO DESIGNATED PER THESE NOTES AND DRAWINGS.
- FURNISH ALL DELIVERY SLIPS OF THE SPECIFIED AMENDMENTS TO THE CONSTRUCTION MANAGEMENT SUPERVISOR AND RESIDENT ENGINEER FOR REVIEW AFTER PLANT INSTALLATION. IF IT IS DETERMINED MORE AMOUNTS ARE NEEDED, CONTRACTOR WILL BE
- CONTRACTOR SHALL BE RESPONSIBLE FOR MAINTAINING EXISTING LANDSCAPE WITHIN SCOPE AREA. ALL PLANTING WITHIN SCOPE OF WORK AREAS ARE TO BE KEPT FREE OF LITTER AND DEBRIS. ALL PLANTS SHALL BE MAINTAINED IN A HEALTHY GROWING CONDITION. ALL DISEASED OR DEAD PLANTS SHALL BE REPLACED IMMEDIATELY. REPLACE PLANTINGS IF DAMAGED, WITH LIKE SIZE, DURING CONSTRUCTION.
- CONTRACTOR SHALL BE HELD RESPONSIBLE FOR REPLACEMENT OF ALL PLANTINGS DAMAGED DURING IRRIGATION INSTALLATION.

LANDSCAPE PLANTING LEGEND

TREES	CODE	BOTANICAL / COMMON NAME	SIZE	MIN. HEIGHT	MIN. SPREAD	WUCOLS	DETAILS	QTY	REMARKS
	PRO CHI	PROSOPIS CHILENSIS / THORNLESS CHILEAN MESQUITE	15 GAL.	10'-12'	7'-8'	LOW	A / L-304	13	STANDARD FULL HEAD, GOOD COLOR,
	GEI PAR	GEIJERA PARVIFLORA / AUSTRALIAN WILLOW	15 GAL.	10'-12'	7'-8'	LOW	A / L-304	6	STANDARD FULL HEAD, GOOD COLOR,
	PAR FLO	PARKINSONIA FLORIDA / BLUE PALO VERDE	15 GAL.	10'-12'	7'-8'	MODERATE	A / L-304	11	STANDARD FULL HEAD, GOOD COLOR,
SHRUBS	CODE	BOTANICAL / COMMON NAME	SIZE	MIN. HEIGHT	MIN. SPREAD	WUCOLS	DETAILS	QTY	REMARKS
	CAL ERI	CALIANDRA ERIOPHYLLA / FAIRY DUSTER	5 GAL.	12"-18"	11"-13"	VERY LOW	D / L-304	13	HEALTHY NO DISEASES/PEST PRESENT. UNDAMAGED LEAVES WITH NO TIP BROWNING. LEAVES UPRIGHT AND STIFF WITH GOOD COLOR.
	ACA CAL	ACALYPHA CALIFORNICA / CALIFORNIA COPPERLEAF	5 GAL.	11"-13"	11"-13"	LOW	D / L-304	12	
	JUS CAL	JUSTICIA CALIFORNICA - CHUPAROSA (BELOPERONE CALIFORNICA)	5 GAL.	10"-12"	8"-10"	LOW	D / L-304	19	HEALTHY NO DISEASES/PEST PRESENT. FULL FLESHY, UNDAMAGED LEAVES WITH NO LEAF TIP BROWNING. WELL-ROOTED. NOT ROOT BOUND.

DWG. NO.

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			DESIGNED BY: DJ, TMH
			DRAWN BY: DJ, TMH
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			DRAWING:
			PLOT DATE: 1/10/25

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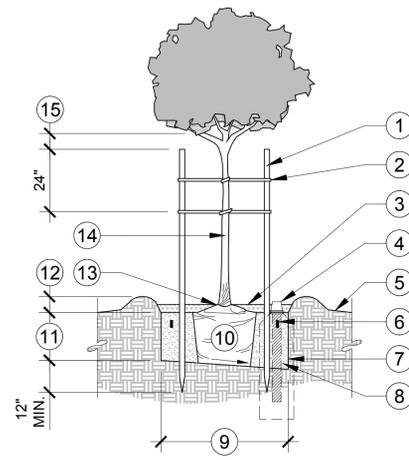


**ALAMO RIVER TRESTLE
 BRIDGE MODIFICATIONS
 HOLTVILLE, CALIFORNIA**

**PLANTING
 LEGEND,
 NOTES**

L-303

SHEET 33 OF 41



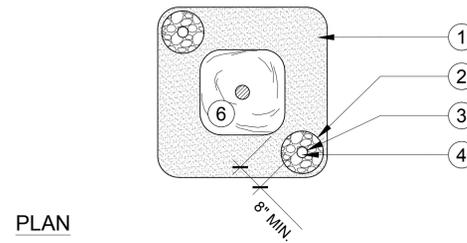
LEGEND

- ① WOOD STAKE (SEE SPECIFICATIONS)
- ② TREE TIE (MIN. 4 REQUIRED, NAIL TO STAKE)
- ③ ORGANIC MULCH OR DECOMPOSED GRANITE, REFER TO SPECIFICATIONS AND PLANTING NOTES FOR DEPTH AND TYPE
- ④ SEE TREE OBSERVATION TUBE - DETAIL B / THIS SHEET
- ⑤ FINISH GRADE
- ⑥ PLANT TABLETS (3" BELOW GRADE)
- ⑦ PLANTING PIT W/ ROUGHENED SIDES
- ⑧ BACKFILL MIX (PUDDLE AND SETTLE)
- ⑨ 2x ROOTBALL DIAMETER MIN.
- ⑩ ROOTBALL
- ⑪ DEPTH OF ROOTBALL
- ⑫ 6" WATERING BASIN (EXCEPT IN LAWN)
- ⑬ TREE COLLAR (PLANT PER SPECS.)
- ⑭ TREE TRUNK
- ⑮ CUT ALL STAKES 6" BELOW TREE CANOPY

NOTES:

- A. REFER TO SPECIFICATIONS FOR PLANTING PROCEDURES AND ADDITIONAL INFORMATION.
- B. REMOVE FROM BOX WITH AS LITTLE DISTURBANCE TO THE ROOTBALL AS POSSIBLE.

A TREE PLANTING WITH DOUBLE STAKING AND OBSERVATION TUBE
PLAN & SECTION NOT TO SCALE

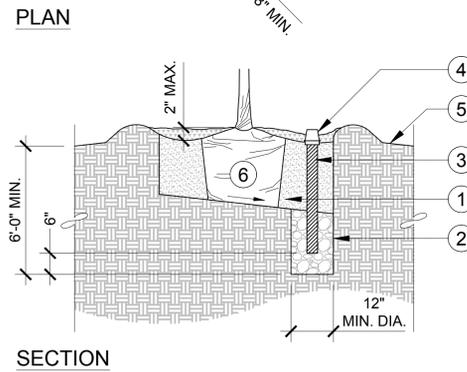


LEGEND

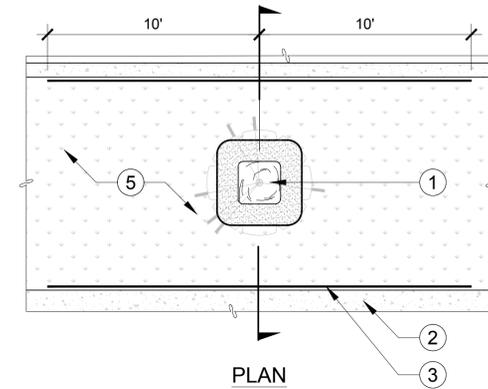
- ① BACKFILL MIX
- ② GRAVEL FILL AROUND PIPE
- ③ (2) 4" PERFORATED PIPE WITH FILTER SOCK (LENGTH AS REQUIRED)
- ④ (2) PLASTIC FLAT DRAIN GRATE
- ⑤ FINISH GRADE
- ⑥ UNDISTURBED ROOTBALL

NOTES:

- A. IRRIGATION - REFER TO IRRIGATION DETAILS



B TREE OBSERVATION TUBE
SECTION NOT TO SCALE

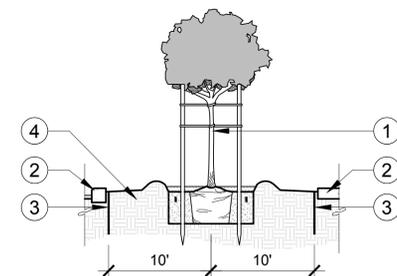


LEGEND:

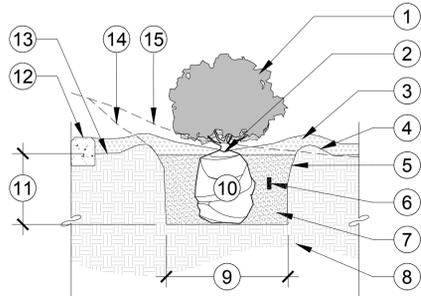
- ① TREE PLANTING PER PLANTING LEGEND AND DETAILS
- ② ADJACENT HARDSCAPE EDGE
- ③ ROOT BARRIER AS REQUIRED (SEE NOTES BELOW)
- ④ TOPSOIL AND SUBGRADE PER SPECIFICATIONS
- ⑤ ADJACENT SOIL OR STABILIZED DECOMPOSED GRANITE

NOTES:

- A. ROOT BARRIERS SHALL BE INSTALLED WHEN TREES ARE WITHIN 10' OF HARDSCAPE UNLESS OTHERWISE NOTED.
- B. WHERE POSSIBLE INSTALL 10' EACH SIDE OF TRUNK MEASURED PARALLEL TO HARDSCAPE X 24" DEEP.
- C. INSTALL PARALLEL TO WALKS & CURBS.
- D. DO NOT ENCIRCLE TREE IF POSSIBLE.
- E. FOLLOW MANUFACTURER'S INSTRUCTIONS FOR INSTALLATION.



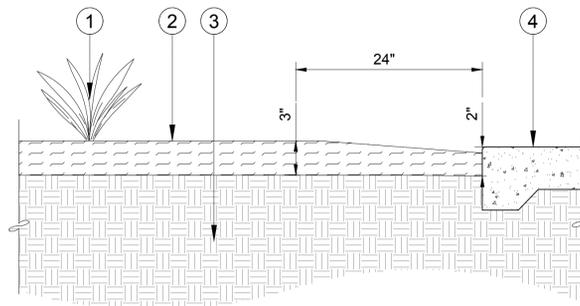
C TREE ROOT BARRIER
PLAN | SECTION NOT TO SCALE



LEGEND

- ① SHRUB
- ② SHRUB CROWN (1" ABOVE FINISH GRADE)
- ③ ORGANIC MULCH, REFER TO SPECS. & PLANTING NOTES FOR DEPTH & TYPE
- ④ 4" HIGH WATERING BERM ALL AROUND
- ⑤ PLANT PIT W/ ROUGHENED SIDES
- ⑥ PLANT TABLETS (3" BELOW GRADE)
- ⑦ BACKFILL MIX (PUDDLE & SETTLE)
- ⑧ TOPSOIL AND SUBGRADE PER SPECIFICATIONS
- ⑨ 2X ROOTBALL DIAMETER MIN.
- ⑩ ROOTBALL
- ⑪ DEPTH OF ROOTBALL
- ⑫ CURB OR PAVING (WHERE APPLICABLE)
- ⑬ SET FINISH GRADE EQUAL TO THE DEPTH OF BARK MULCH BELOW FINISH SURFACE OF PAVING (WHERE APPLICABLE)
- ⑭ NEW FINISH GRADE AT SLOPE (WHERE APPLICABLE)
- ⑮ EXISTING FINISH GRADE AT SLOPE (WHERE APPLICABLE)

D SHRUB PLANTING
SECTION NOT TO SCALE



LEGEND

- ① PLANTER AREA, WHERE OCCURS
- ② BARK MULCH OR DECOMPOSED GRANITE PER MATERIALS PLAN, 3" DEPTH; TAPER TO 2" AT PAVE EDGE OVER 24"
- ③ PREPARED SUBGRADE
- ④ CONCRETE CURB OR PAVING, WHERE OCCURS. SEE PLANS.

NOTE:

- A. CONTRACTOR SHALL ENSURE AREA IS ENTIRELY COVERED BY ROCK AND FILTER FABRIC IS NOT EXPOSED.

E ORGANIC MULCH - PLANTING AREA
SECTION NOT TO SCALE

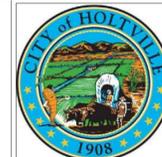
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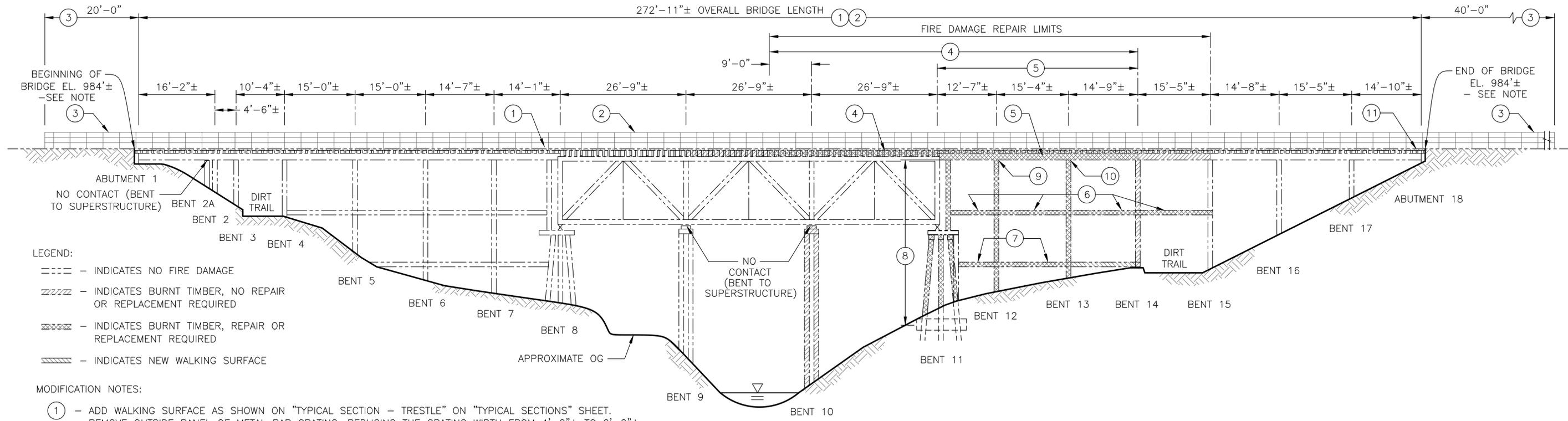
**ALAMO RIVER TRESTLE
BRIDGE MODIFICATIONS
HOLTVILLE, CALIFORNIA**

**PLANTING
DETAILS**

L-304

SHEET 34 OF 41

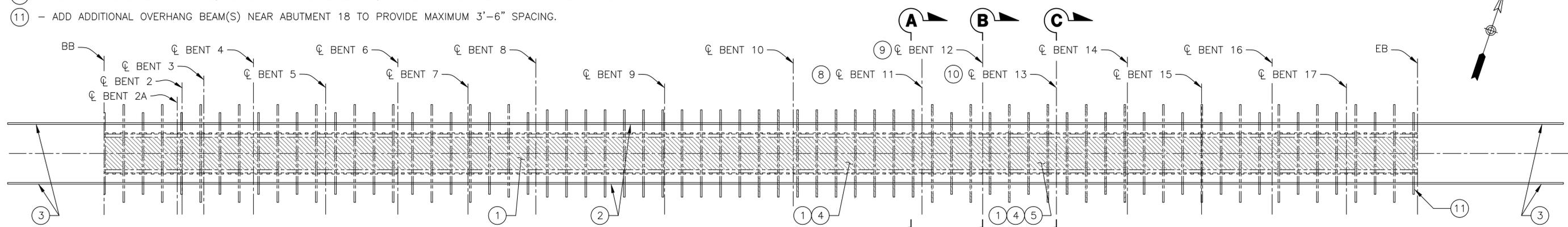
ISSUED FOR CONSTRUCTION PLANS



NOTE: PATHWAY FINISHED GRADE ELEVATION TO MATCH FINISHED BRIDGE DECK ELEVATION. FINISHED BRIDGE DECK ELEVATION TO BE EQUAL TO EXISTING BRIDGE DECK ELEVATION PLUS ADDED WALKING SURFACE THICKNESS.

ELEVATION

1" = 10'-0"



PLAN

1" = 10'-0"

NOTE: FOR "SECTION A-A", "SECTION B-B", AND "SECTION C-C", SEE "GENERAL PLAN NO. 2" SHEET.

REV.	DATE	REVISION DESCRIPTION	BY	DESIGNED BY: JM
				DRAWN BY: TB
				APPROVED BY: KB
				DRAWING:
				PLOT DATE: 10/20/25

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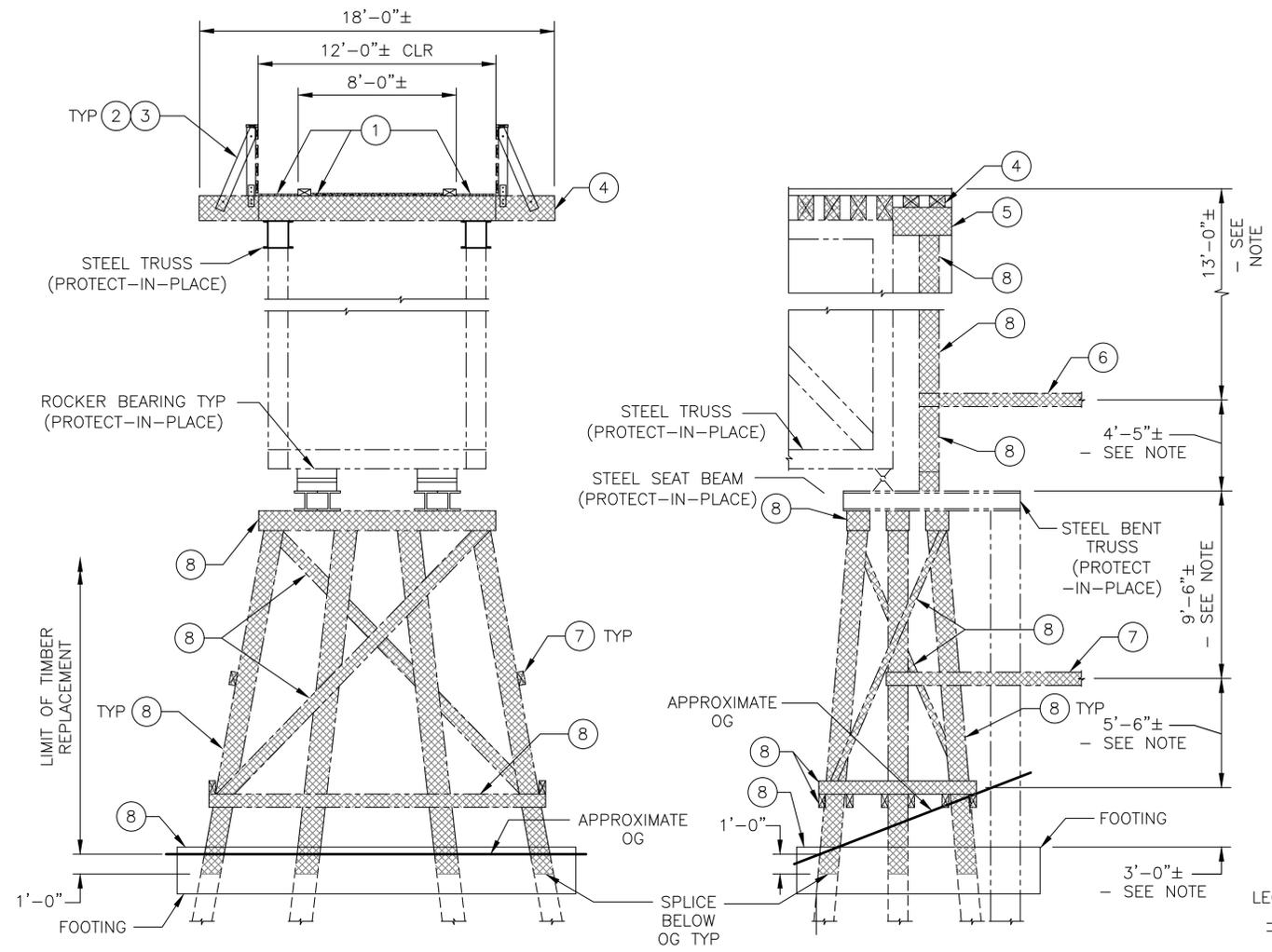
**ALAMO RIVER TRETTLE
BRIDGE MODIFICATIONS
HOLTVILLE, CALIFORNIA**

**GENERAL PLAN
NO. 1**

S-101

SHEET 35 OF 41

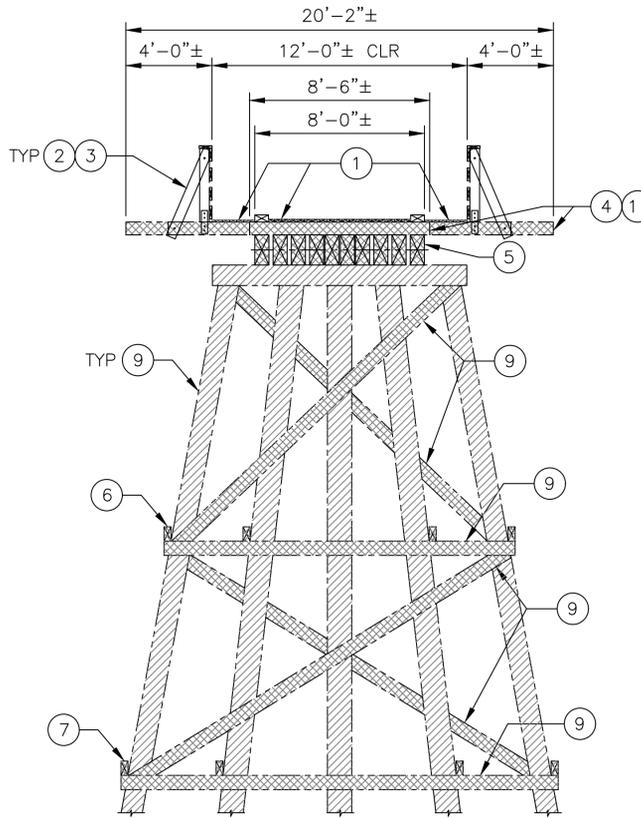
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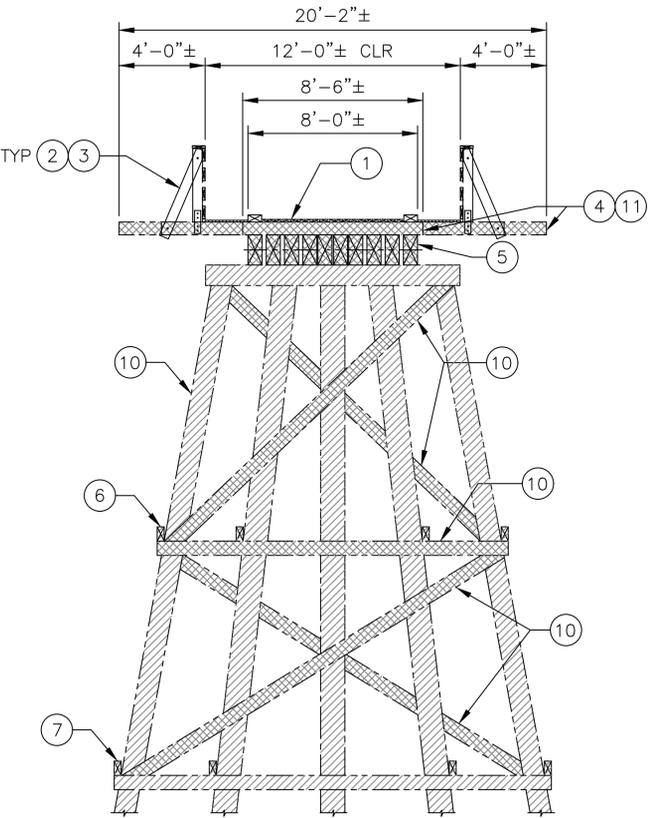
SECTION A-A (BENT 11)
1/4" = 1'-0"

NOTE: DIMENSIONS ARE PROVIDED FOR REFERENCE ONLY AND SHALL BE FIELD VERIFIED. HORIZONTAL BRACES ARE TO BE PLACED LEVEL AND IN LINE WITH THE ADJACENT BENT BRACING. THE FOOTING ELEVATION SHALL BE PLACED ON THE EXISTING GRADE AND THE LOCATION OF THE PILE SPLICE.

ELEVATION
1/4" = 1'-0"



SECTION B-B (BENT 12)
1/4" = 1'-0"



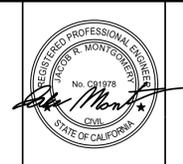
SECTION C-C (BENT 13)
1/4" = 1'-0"

- LEGEND:
- - INDICATES NO FIRE DAMAGE
 - zzzz - INDICATES BURNT TIMBER, NO REPAIR OR REPLACEMENT REQUIRED
 - xxxx - INDICATES BURNT TIMBER, REPAIR OR REPLACEMENT REQUIRED
 - |||| - INDICATES NEW WALKING SURFACE
- MODIFICATION NOTES:

- ① - ADD WALKING SURFACE AS SHOWN ON "TYPICAL SECTION - TRESTLE" ON "TYPICAL SECTIONS" SHEET. REMOVE OUTSIDE PANEL OF METAL BAR GRATING, REDUCING THE GRATING WIDTH FROM 4'-0"± TO 2'-0"±. GRATING DAMAGED BY FIRE MAY BE REPLACED WITH EXCESS EXISTING GRATING. THE PLACEMENT AND FASTENING OF GRATING SHALL BE PER THE "GRATING DETAIL" ON THE "TYPICAL SECTION" SHEET.
- ② - REMOVE EXISTING RAILING AND CONSTRUCT NEW RAILING ACCORDING TO DETAILS SHOWN ON "TYPICAL SECTIONS" SHEET.
- ③ - EXTEND ADA COMPLIANT RAILING BEYOND ENDS OF BRIDGE.
- ④ - REPLACE OVERHANG BEAMS, CURB BEAMS AND TIES.
- ⑤ - REPLACE STRINGERS (STRINGERS THAT EXTEND TO BENT 15 MUST BE REPLACED ENTIRELY).
- ⑥ - REPLACE UPPER LONGITUDINAL LEDGERS BETWEEN BENTS 11 AND 14 (LEDGERS THAT EXTEND TO BENT 15 MUST BE REPLACED ENTIRELY).
- ⑦ - REPLACE LOWER EXTERIOR LONGITUDINAL LEDGERS BETWEEN BENTS 11 AND 13. REPLACE LOWER INTERIOR LONGITUDINAL LEDGERS BETWEEN BENTS 12 AND 14.
- ⑧ - BENT 11: REPLACE ALL TIMBER EXCEPT PILES BELOW OG. SPLICE WITH EXISTING PILES BELOW OG. PLACE FOOTING AROUND ALL PILE SPLICES. SEE "BENT 11 REPAIR DETAILS NO. 1", "BENT 11 REPAIR DETAILS NO. 2", AND "MISCELLANEOUS REPAIR DETAILS" SHEETS FOR DETAILS.
- ⑨ - BENT 12: REPLACE ALL BRACING AND TRANSVERSE LEDGERS. BAND SPLIT COLUMNS.
- ⑩ - BENT 13: REPLACE TOP BRACE, CENTER TRANSVERSE LEDGER, AND BOTTOM BRACE. BAND NORTHERN COLUMN.
- ⑪ - ADD ADDITIONAL OVERHANG BEAM(S) NEAR ABUTMENT 18 TO PROVIDE MAXIMUM 3'-6" SPACING.

REV.	DATE	REVISION DESCRIPTION	BY	DESIGNED BY: JM
				DRAWN BY: TB
				APPROVED BY: KB
				DRAWING:
				PLOT DATE: 10/20/25

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**ALAMO RIVER TRETTLE
BRIDGE MODIFICATIONS
HOLTVILLE, CALIFORNIA**

DWG. NO.	
GENERAL PLAN NO. 2	S-102
	SHEET 36 OF 41

BRIDGE INDEX TO PLANS

SHEET NO.	DESCRIPTION
S-101	GENERAL PLAN NO. 1
S-102	GENERAL PLAN NO. 2
S-103	INDEX TO BRIDGE PLANS
S-104	TYPICAL SECTIONS
S-105	BENT 11 REPAIR DETAILS NO. 1
S-106	BENT 11 REPAIR DETAILS NO. 2
S-107	MISCELLANEOUS REPAIR DETAILS

SPECIFICATIONS

STANDARD SPECIFICATIONS DATED 2023, STATE OF CALIFORNIA DEPARTMENT OF TRANSPORTATION.

GENERAL NOTES

DESIGN:

AASHTO LRFD BRIDGE DESIGN SPECIFICATIONS, 8TH EDITION AND THE CALIFORNIA AMENDMENTS, PREFACE DATED APRIL 2019 WITH OCTOBER 2019 ERRATA.

PLANS WERE PREPARED IN ACCORDANCE WITH THE *ALAMO RIVER TRESTLE REPAIR STRUCTURAL CALCULATIONS* PREPARED BY KLEINFELDER, DATED NOVEMBER 2025.

LIVE LOAD:

INTERIOR DECK: 90 PSF PEDESTRIAN OR H5 VEHICLE
EXTERIOR WALKWAY: 90 PSF PEDESTRIAN

TIMBER:

RAILING RAIL, POST AND KICKER: TREATED DOUGLAS FIR-LARCH NO. 1, TREATMENT PER APWA U1, CATEGORY UC3B OR UC4B WATER-BORNE.

DECKING: TREX TRANSCEND COMPOSITE DECKING, HAVANA GOLD OR APPROVED EQUAL.

CROSSBEAMS, GIRDERS, CAPS AND PILING: TREATED DOUGLAS FIR-LARCH NO. 1, TREATMENT PER APWA U1, CATEGORY UC4B OIL-BORNE.

HARDWARE: BOLTS, THREADED ROD, NUTS AND WASHERS PER ASTM A307, ASTM F1554 GRADE 36, ASTM A563 AND ASTM F844. MALLEABLE-IRON WASHERS PER ASTM A47 GRADE 32510. ALL HARDWARE TO BE HOT-DIP GALVANIZED. STRAPPING SHALL BE HEAVY DUTY GALVANIZED STEEL STRAPPING PER ASTM D3953, FINISH B GRADE 1.

STRUCTURAL STEEL:

METAL BAR GRATING: ASTM A1011 CS TYPE B, HOT-DIP GALVANIZED.
OTHER STEEL SECTIONS AND PLATES $\geq 1/4"$: ASTM A36.
PLATES $< 1/4"$: ASTM A653.

REINFORCED CONCRETE:

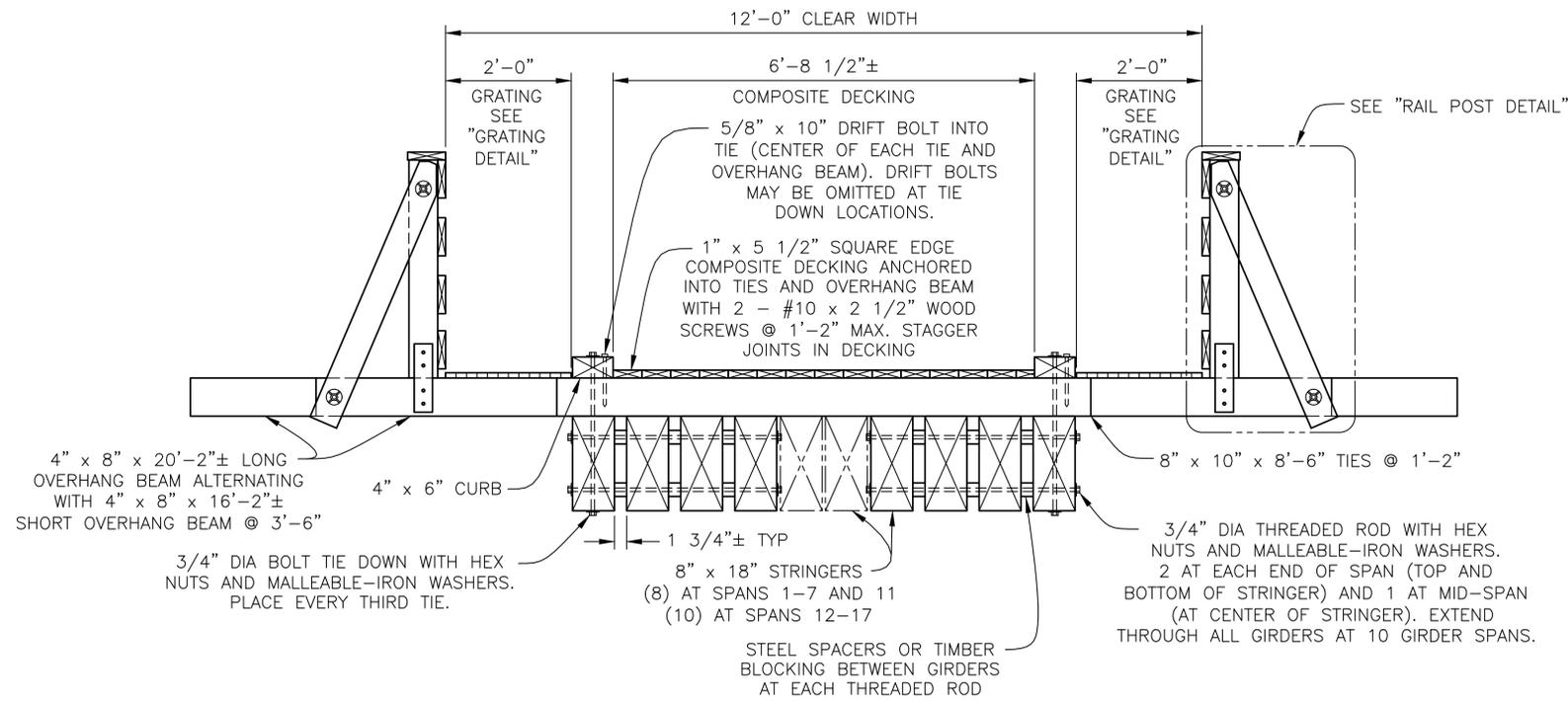
$f_y = 60$ ksi
 $f'_c = 3.6$ ksi

CONSTRUCTION:

THE CONTRACTOR SHALL VERIFY ALL CONTROLLING FIELD DIMENSIONS BEFORE ORDERING OR FABRICATING ANY MATERIAL. THE CONTRACTOR IS TO RETIGHTEN ANY LOOSE BRIDGE CONNECTIONS ON EXISTING BRIDGE.

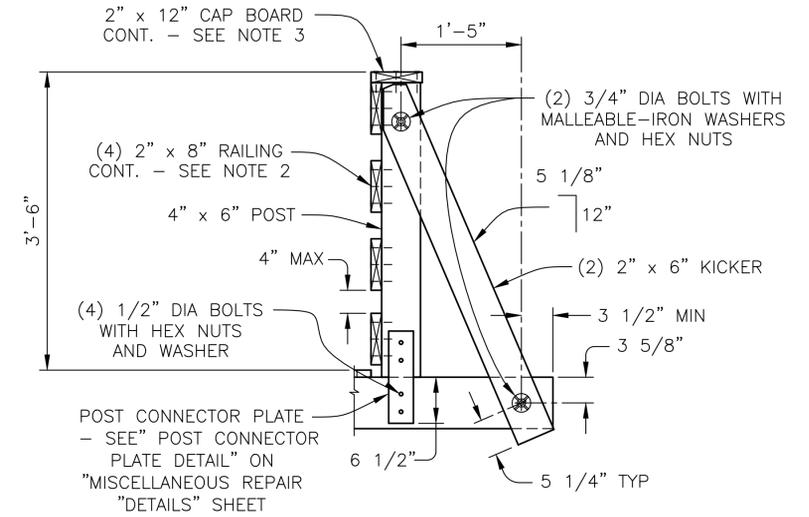
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REV.	DATE	REVISION DESCRIPTION	BY	DESIGNED BY: JM	 770 First Avenue, Suite 400 San Diego, CA 92101 Tel. (619) 831-4600 Fax. (619) 232-1039	 CITY OF HOLTVILLE 121 W. 5TH STREET HOLTVILLE, CALIFORNIA 92250	 ALAMO RIVER TRESTLE BRIDGE MODIFICATIONS HOLTVILLE, CALIFORNIA	INDEX TO BRIDGE PLANS	DWG. NO. S-103 SHEET 37 OF 41
				DRAWN BY: TB					
				APPROVED BY: KB					
				DRAWING:					
				PLOT DATE: 10/20/25					



TYPICAL SECTION - TRESTLE

3/4" = 1'-0"

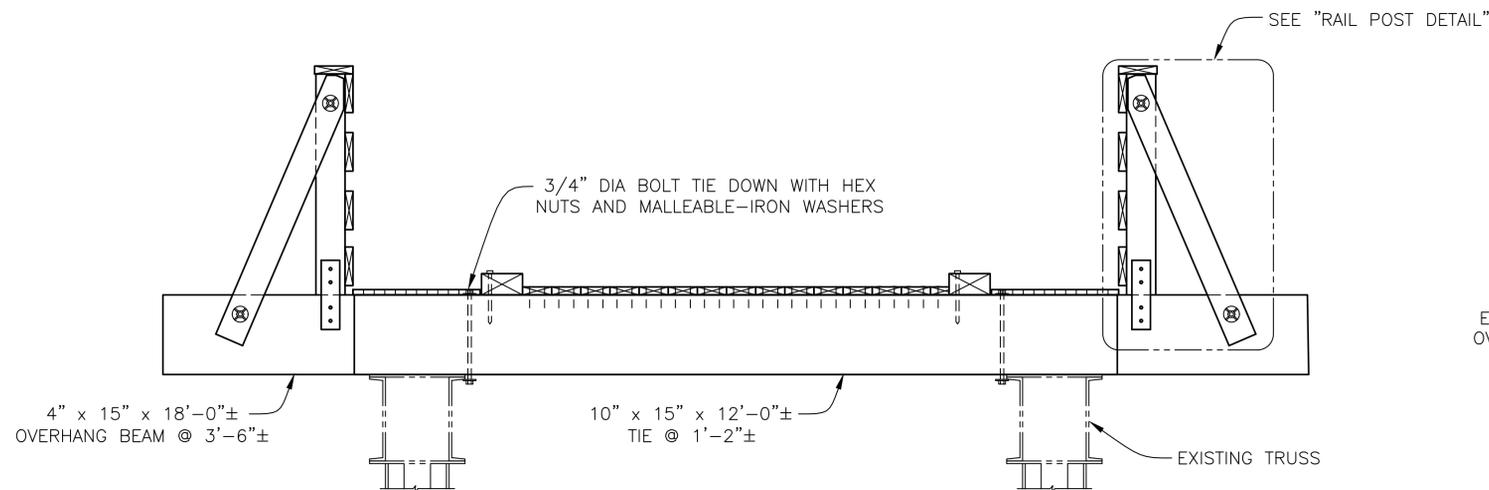


NOTES:

1. SHORT OVERHANG BEAM IN TRESTLE SHOWN, OTHER LOCATIONS SIMILAR.
2. LOCATE RAILING JOINTS OVER THE CENTER OF POSTS. CONNECT RAILING TO POST WITH (6) #10 x 4" WOOD SCREWS AT CONTINUOUS POSTS. CONNECT RAILING TO POSTS WITH (5) #10 x 4" WOOD SCREWS AT RAILING JOINTS.
3. LOCATE RAILING OVER CENTER OF POSTS. CONNECT CAP BOARD TO TOP RAIL WITH #10 x 4" WOOD SCREWS AT 3'-0" SPACING. CONNECT CAP BOARD TO TOP OF POST WITH (4) #10 x 4" WOOD SCREWS.

RAIL POST DETAIL

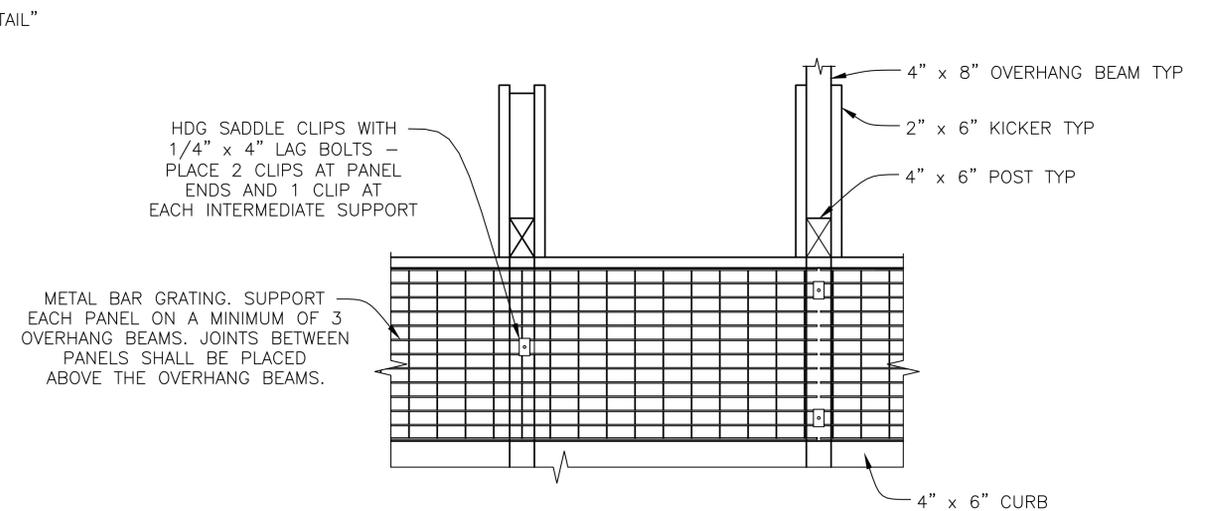
1" = 1'-0"



NOTE: FOR INFORMATION NOT SHOWN SEE "TYPICAL SECTION - TRESTLE".

TYPICAL SECTION - TRUSS

3/4" = 1'-0"



GRATING DETAIL

1" = 1'-0"

DWG. NO.

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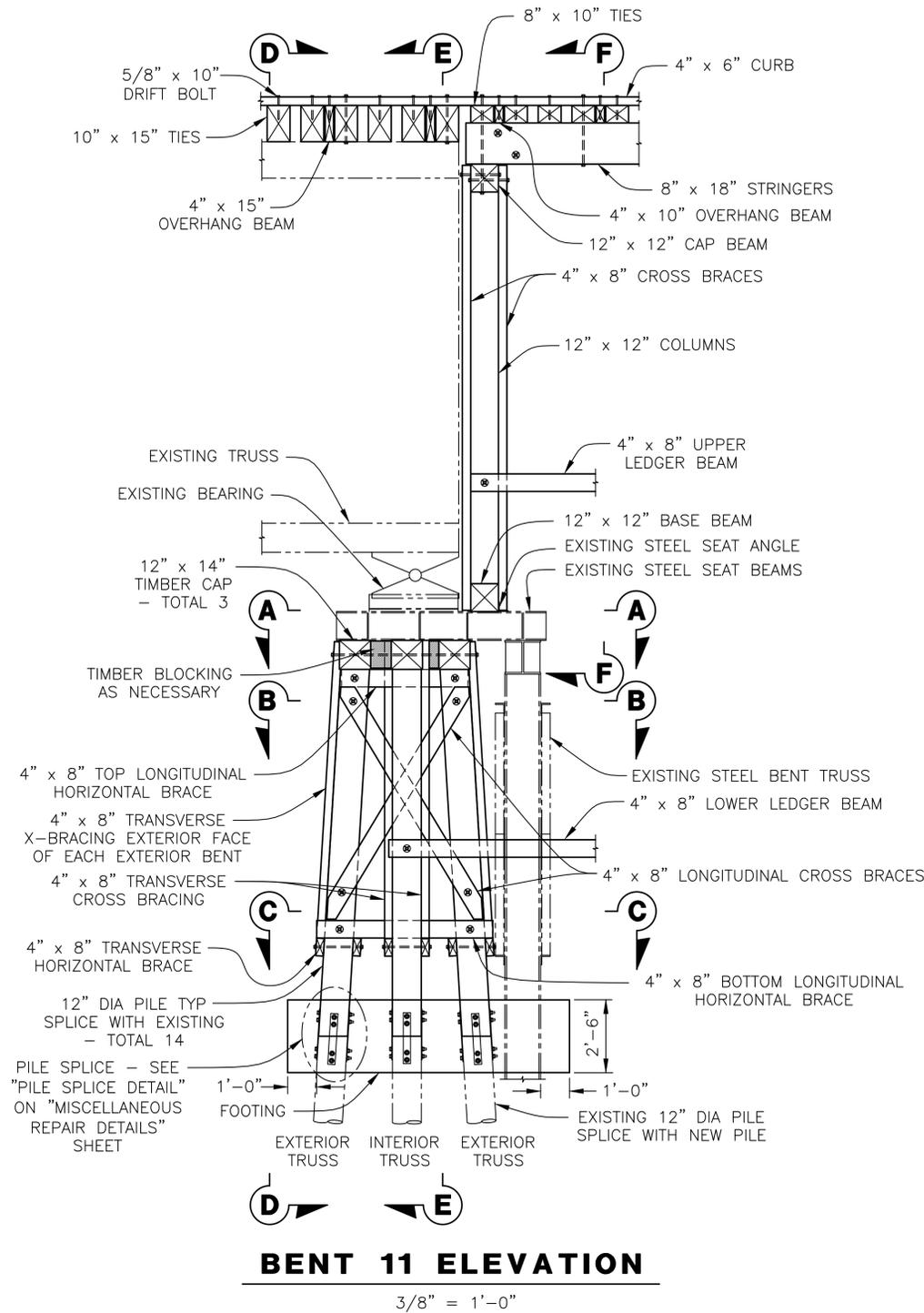


**ALAMO RIVER TRESTLE
BRIDGE MODIFICATIONS
HOLTVILLE, CALIFORNIA**

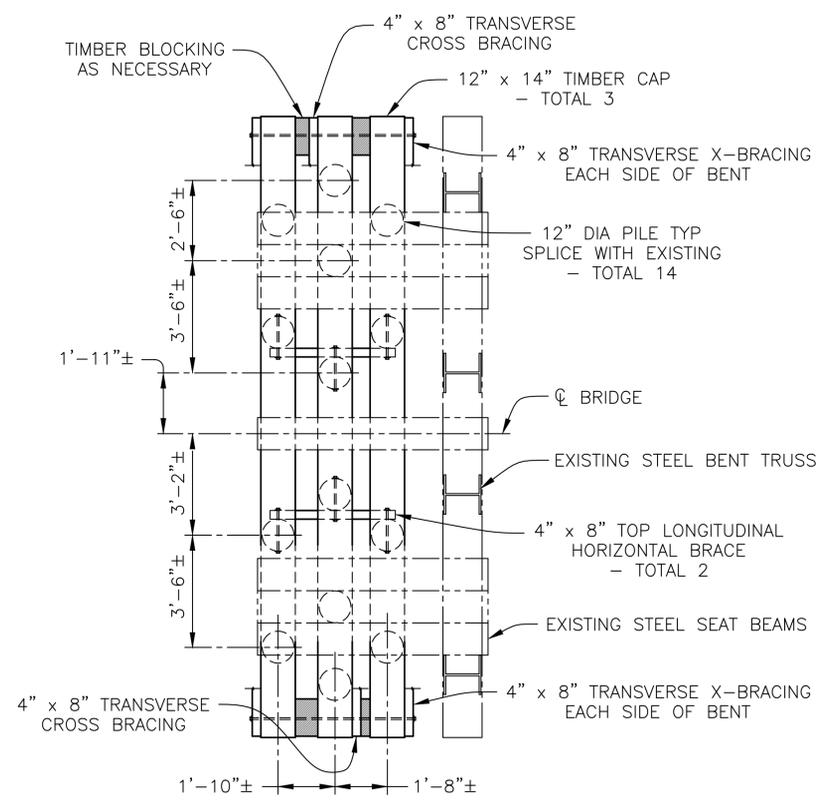
**TYPICAL
SECTIONS**

S-104

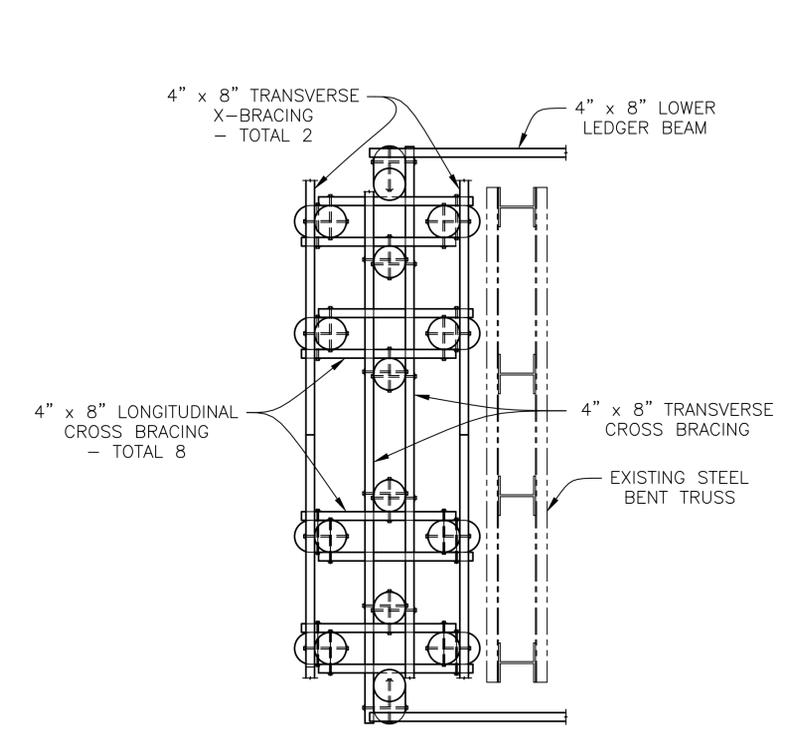
SHEET 38 OF 41



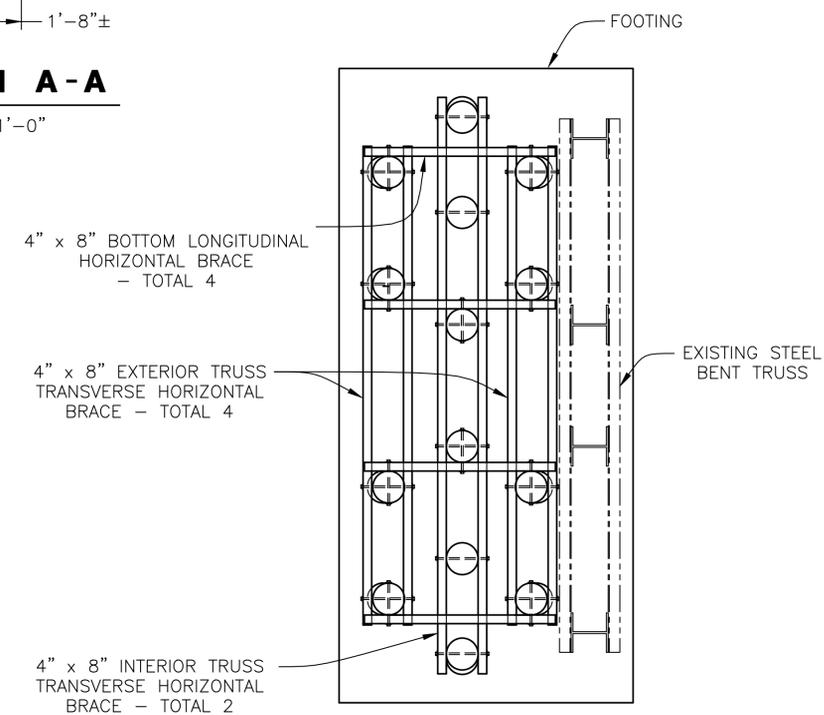
BENT 11 ELEVATION
3/8" = 1'-0"



SECTION A-A
3/8" = 1'-0"



SECTION B-B
3/8" = 1'-0"

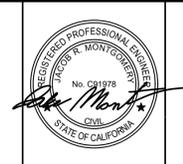


SECTION C-C
3/8" = 1'-0"

- NOTES:
1. RAILING AND DECKING ARE NOT SHOWN FOR CLARITY.
 2. UNLESS OTHERWISE NOTED FASTENERS ARE 7/8" DIA BOLTS WITH HEX NUTS AND MALLEABLE IRON WASHERS.
 3. 7/8" DIA BOLTS SHALL BE PLACED AT OR NEAR CENTERLINE OF ATTACHING MEMBERS. DISTANCE FROM CENTERLINE OF 7/8" DIA BOLTS TO THE END OF THE ATTACHED MEMBER SHALL NOT BE LESS THAN 6".
 4. FOR "SECTION D-D", "SECTION E-E", AND "SECTION F-F", SEE "BENT 11 REPAIR DETAILS NO. 2" SHEET.

REV.	DATE	REVISION DESCRIPTION	BY	DESIGNED BY: JM
				DRAWN BY: TB
				APPROVED BY: KB
				DRAWING:
				PLOT DATE: 10/20/25

KLEINFELDER
Bright people. Right Solutions.
770 First Avenue, Suite 400 San Diego, CA 92101
Tel. (619) 831-4600 Fax. (619) 232-1039



CITY OF HOLTVILLE
121 W. 5TH STREET
HOLTVILLE, CALIFORNIA 92250



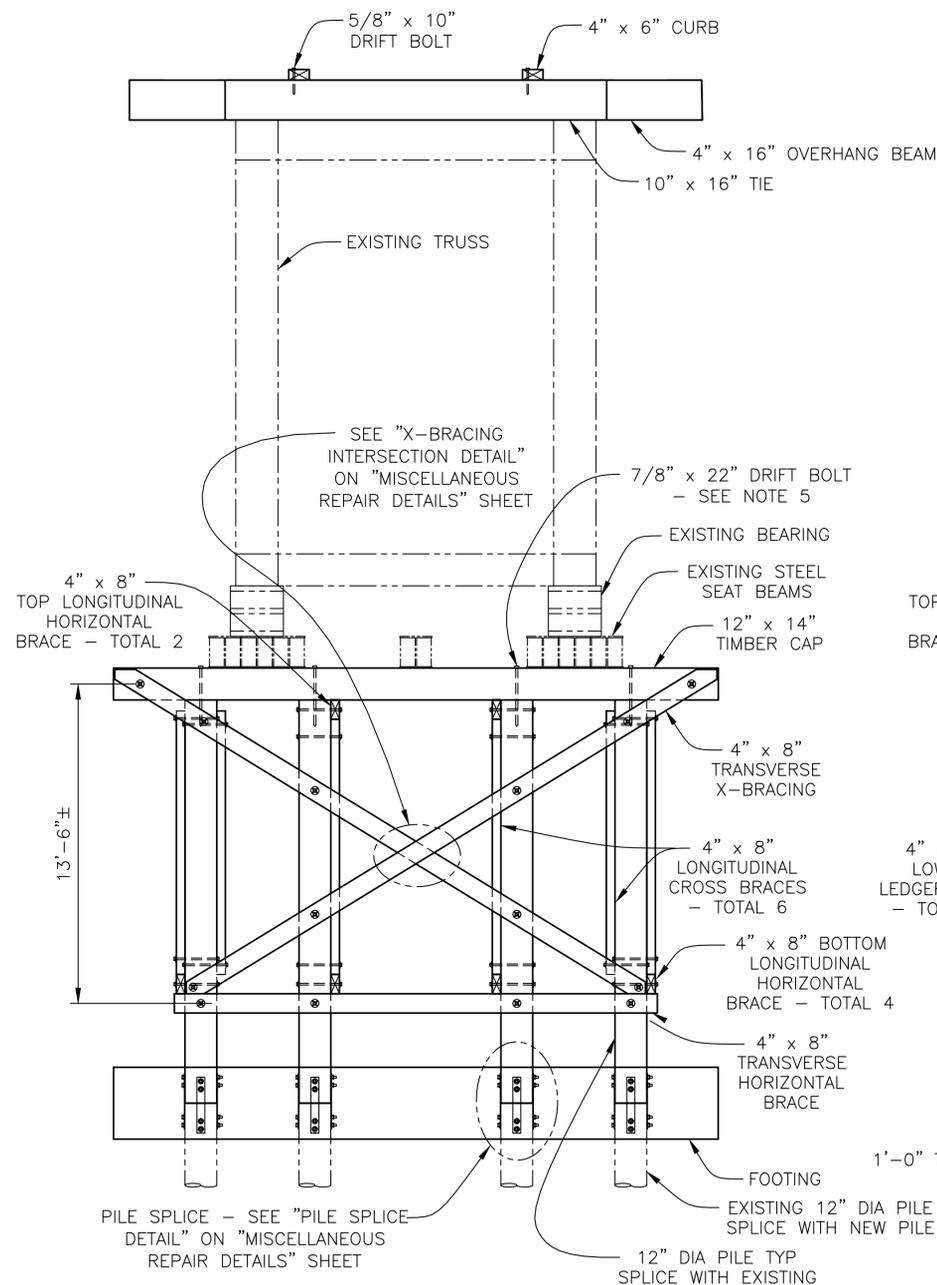
**ALAMO RIVER TRESTLE
BRIDGE MODIFICATIONS
HOLTVILLE, CALIFORNIA**

**BENT 11 REPAIR
DETAILS NO. 1**

DWG. NO.

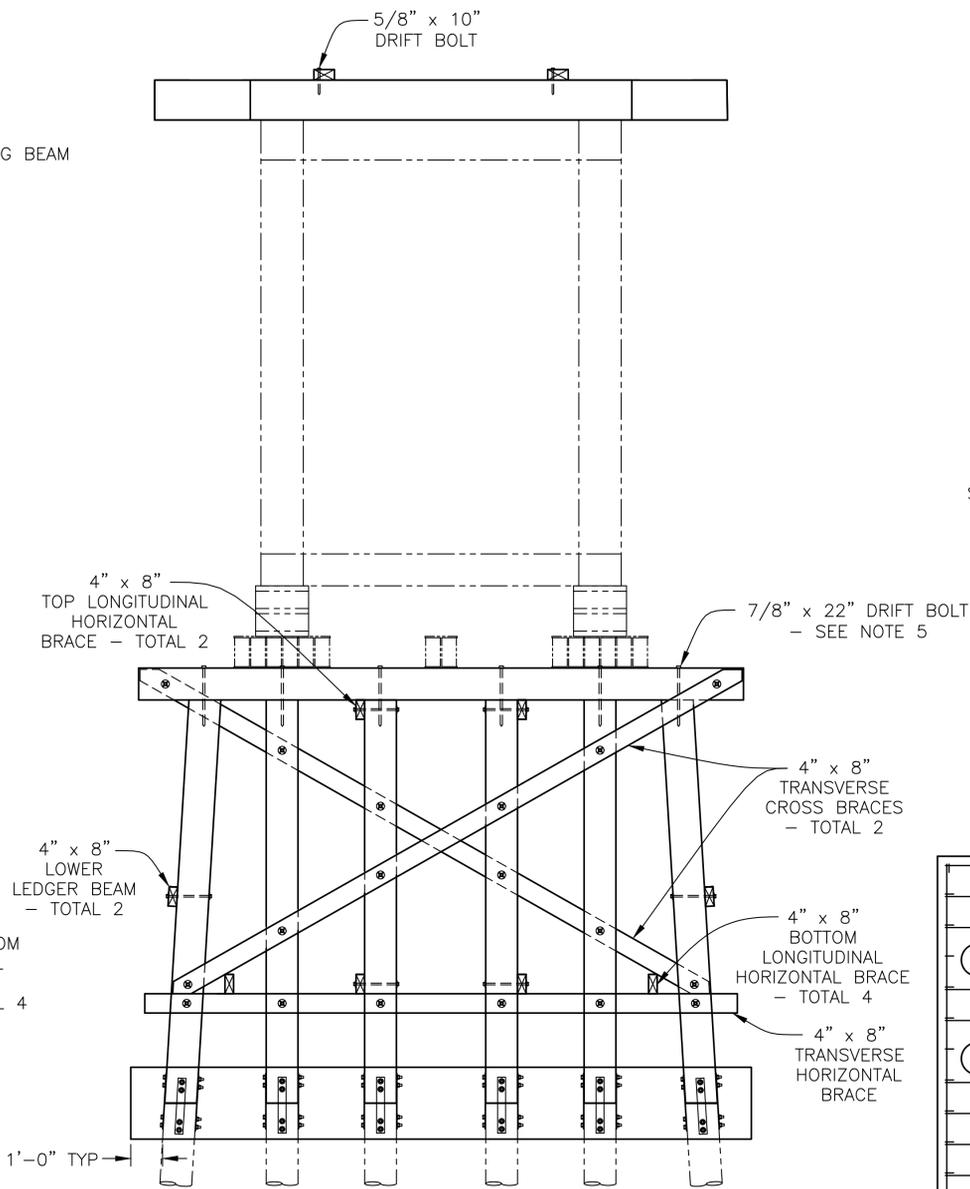
S-105

SHEET 39 OF 41



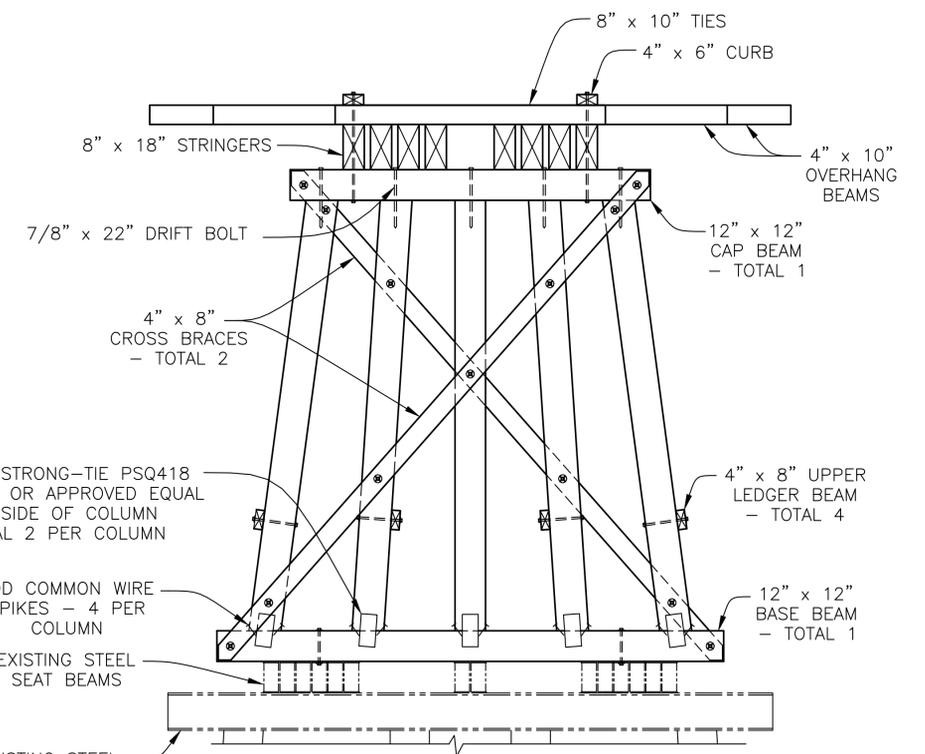
**SECTION D-D
(EXTERIOR TRUSS)**

3/8" = 1'-0"



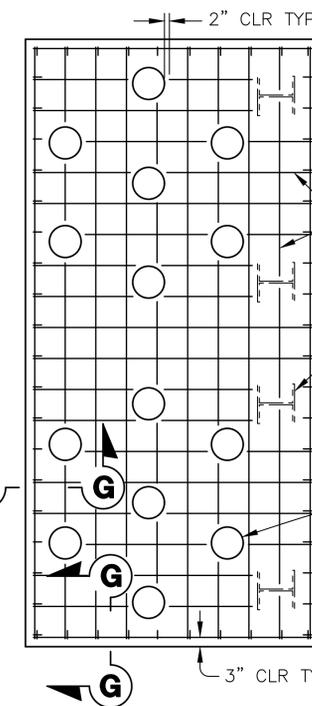
**SECTION E-E
(INTERIOR TRUSS)**

3/8" = 1'-0"



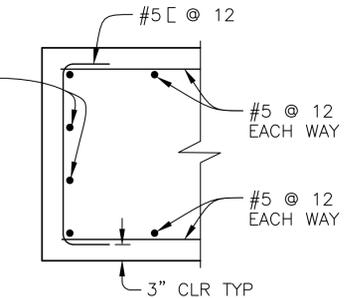
SECTION F-F

3/8" = 1'-0"



FOOTING REINFORCING PLAN

NOT TO SCALE



SECTION G-G

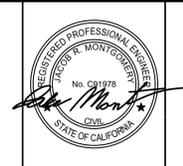
1" = 1'-0"

NOTES:

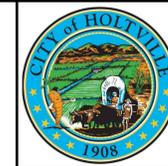
1. RAILING AND DECKING ARE NOT SHOWN FOR CLARITY.
2. UNLESS OTHERWISE NOTED FASTENERS ARE 7/8" DIA BOLTS WITH HEX NUTS AND MALLEABLE IRON WASHERS.
3. 7/8" DIA BOLTS SHALL BE PLACED AT OR NEAR CENTERLINE OF ATTACHING MEMBERS. DISTANCE FROM CENTERLINE OF 7/8" DIA BOLTS TO THE END OF THE ATTACHED MEMBER SHALL NOT BE LESS THAN 6".
4. FOR LOCATION OF "SECTION D-D", "SECTION E-E", AND "SECTION F-F", SEE "BENT 11 REPAIR DETAILS NO. 1" SHEET.
5. WHEN DIRECTLY BENEATH EXISTING SEAT BEAMS, DRIFT BOLTS MAY BE SUBSTITUTED WITH 2 SIMPSON STRONG-TIE PSQ218 STRAP TIES OR APPROVED EQUAL.

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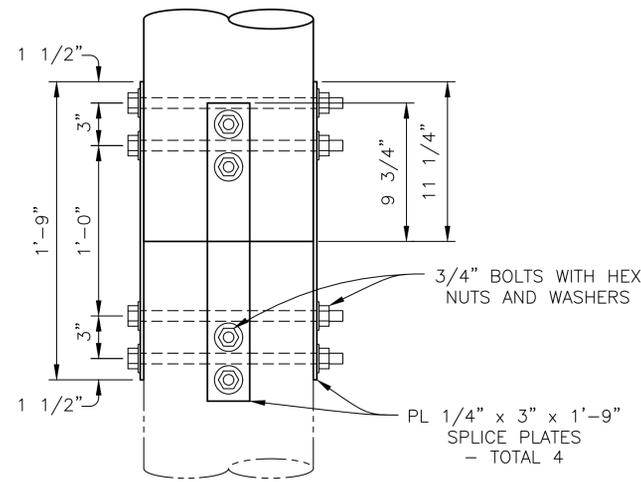
**ALAMO RIVER TRESTLE
BRIDGE MODIFICATIONS
HOLTVILLE, CALIFORNIA**

**BENT 11 REPAIR
DETAILS NO. 2**

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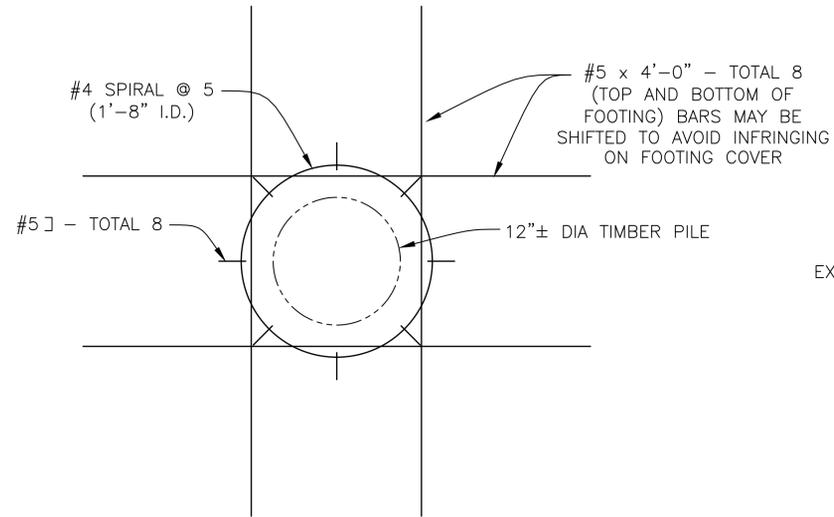
SHEET 40 OF 41

DWG. NO.



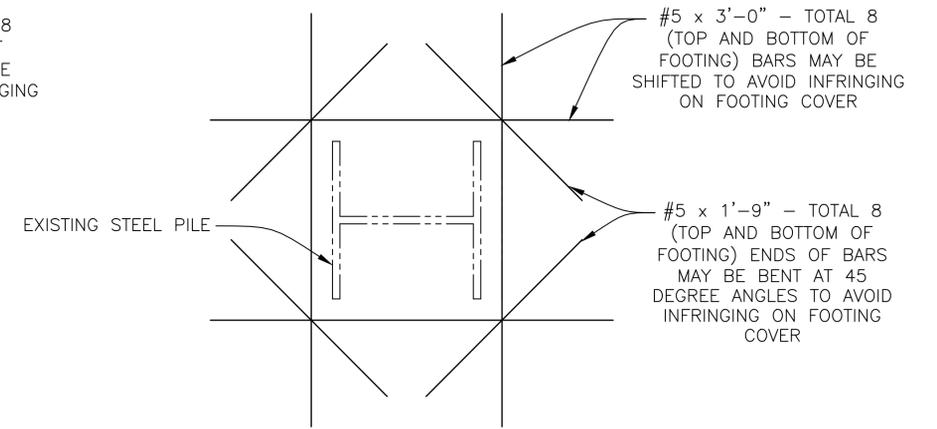
PILE SPLICE DETAIL

2" = 1'-0"



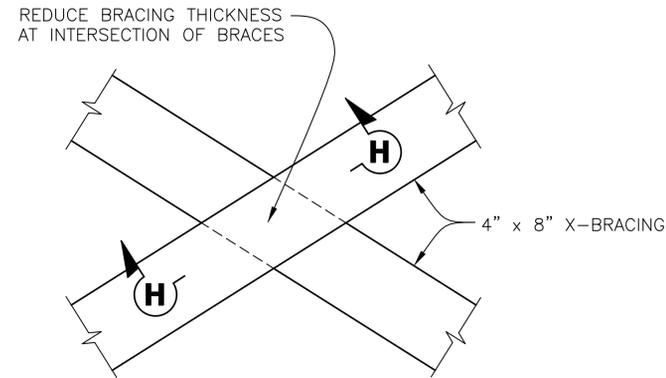
ADDITIONAL FOOTING REINFORCEMENT DETAIL NO. 1

1 1/2" = 1'-0"



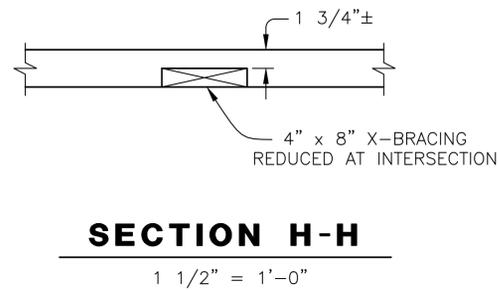
ADDITIONAL FOOTING REINFORCEMENT DETAIL NO. 2

1 1/2" = 1'-0"



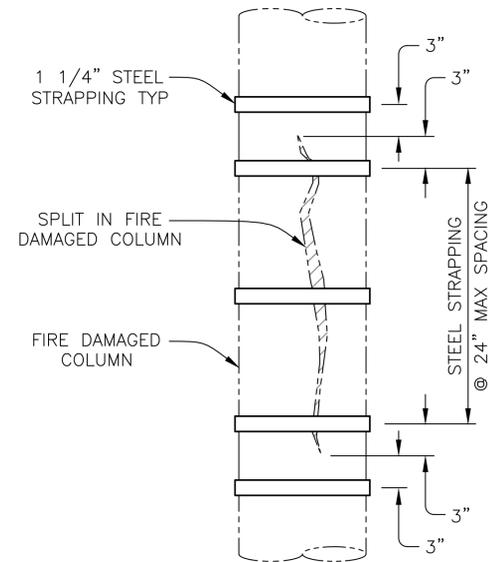
X-BRACING INTERSECTION DETAIL

1 1/2" = 1'-0"



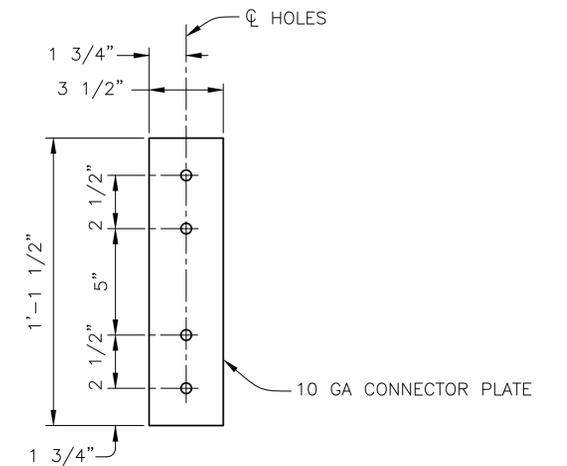
SECTION H-H

1 1/2" = 1'-0"



COLUMN BANDING DETAIL

1 1/2" = 1'-0"



POST CONNECTOR PLATE DETAIL

3" = 1'-0"

				DWG. NO.	
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				CITY OF HOLTVILLE 121 W. 5TH STREET HOLTVILLE, CALIFORNIA 92250	
				ALAMO RIVER TRESTLE BRIDGE MODIFICATIONS HOLTVILLE, CALIFORNIA	
				MISCELLANEOUS REPAIR DETAILS	
				S-107 SHEET 41 OF 41	