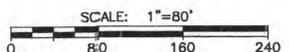


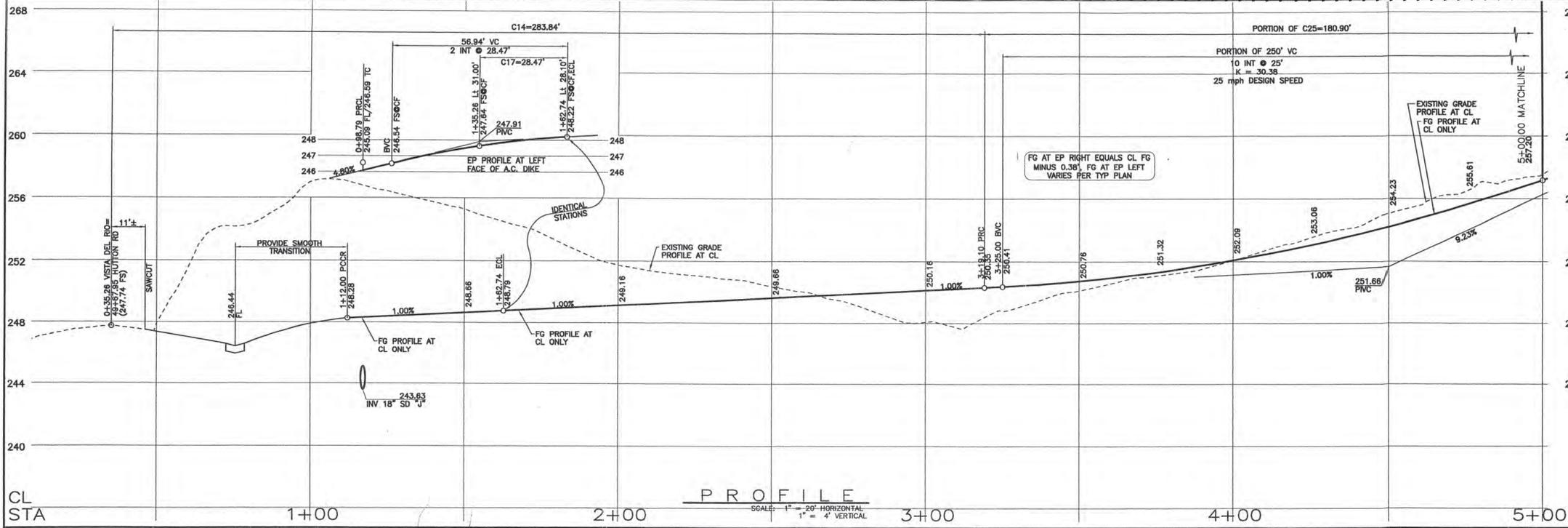
- GENERAL NOTES:**
1. ALL UTILITIES SHALL BE STUBBED A MINIMUM OF 3' FEET BEYOND PROPERTY LINES UNLESS OTHERWISE NOTED. ALL STUBBED UTILITIES SHALL BE CAPPED OR OTHERWISE SEALED FOR FUTURE CONNECTION. A MARKER PIPE EXTENDING 2' ABOVE FINISHED GRADE SHALL BE PLACED AT THE END OF EACH CAPPED UTILITY, AND THE MARKER PIPE SHALL BE LABELED WITH THE NAME OF THE RESPECTIVE UTILITY (SS, WL, ELEC, TEL, CATV, GAS,...) AND ITS STUB ELEVATION (DEPTH BELOW GRADE).
 2. ALL FIRE HYDRANTS SHALL BE INSTALLED PER NIPOMO COMMUNITY SERVICES DISTRICT STANDARD W-1.
 3. ALL 8" WATER LINE VALVES SHALL BE INSTALLED PER NIPOMO COMMUNITY SERVICES DISTRICT STANDARD W-2.
 4. THRUST BLOCKS SHALL BE CONSTRUCTED ON ALL WATER LINE STUBS, ELBOWS, TEE'S AND CROSSES GREATER THAN 4" IN DIAMETER PER NIPOMO COMMUNITY SERVICES DISTRICT STANDARD W-3.
 5. ALL RESIDENTIAL WATER SERVICE CONNECTIONS SHALL BE 3/4 INCH AND INSTALLED PER NIPOMO COMMUNITY SERVICES DISTRICT STANDARD W-4.
 6. ALL WATER LINE BLOW-OFF ASSEMBLIES SHALL BE INSTALLED PER NIPOMO COMMUNITY SERVICES DISTRICT STANDARD W-7.
 7. ALL WATER LINE AIR-VAC RELIEF VALVES SHALL BE INSTALLED PER NIPOMO COMMUNITY SERVICES DISTRICT STANDARD W-5.
 8. ALL WATER LINES SHALL BE POLYVINYL CHLORIDE (PVC) C900 (OR GREATER AS NOTED) AND INSTALLED PER NIPOMO COMMUNITY SERVICES DISTRICT STANDARDS AND SPECIFICATIONS.
 9. ALL SEWER MANHOLES SHALL BE INSTALLED PER NIPOMO COMMUNITY SERVICES DISTRICT STANDARD S-2, UNLESS OTHERWISE NOTED.
 10. ALL SEWER CLEAN OUTS SHALL BE INSTALLED PER NIPOMO COMMUNITY SERVICES DISTRICT STANDARD S-4, UNLESS OTHERWISE NOTED.
 11. ALL SEWER LATERALS SHALL BE INSTALLED PER NIPOMO COMMUNITY SERVICES DISTRICT STANDARD S-3.
 12. ALL SEWER LINES AND LATERALS SHALL BE PVC, SDR 35, AND INSTALLED PER SAN LUIS OBISPO COUNTY STANDARDS AND SPECIFICATIONS.
 13. ALL WATER AND SEWER UTILITY TRENCHING SHALL BE PER NIPOMO COMMUNITY SERVICES DISTRICT STANDARD W-8, AND SPECIFICATIONS.
 14. ALL RESIDENTIAL UNITS SHALL HAVE A PRESSURE REDUCING VALVE ON THE CUSTOMER SIDE OF THE WATER METER (TO BE MAINTAINED BY RESIDENT).

SEE SHEET 4

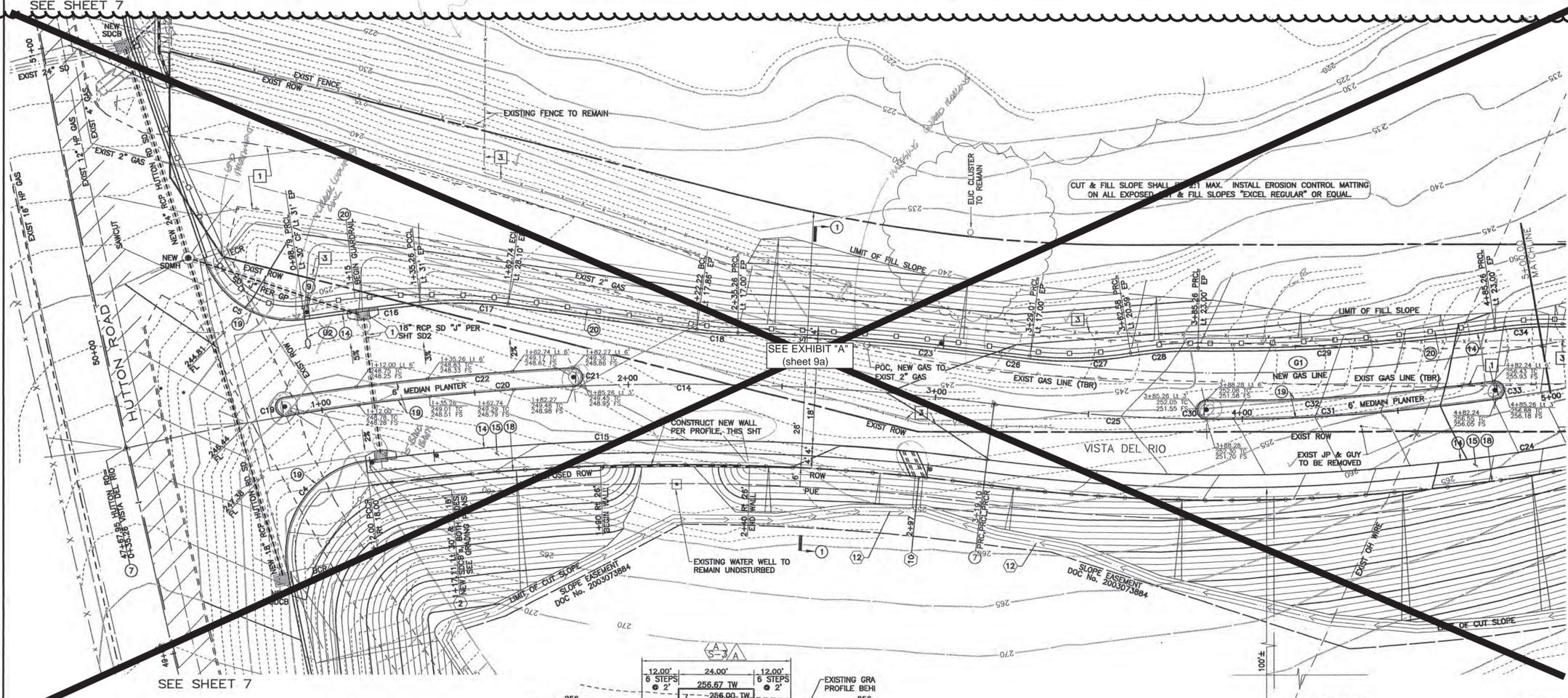
- LEGEND:**
- CET - CABLE, ELECTRIC, TELEPHONE
 - CO - CLEAN OUT
 - PH - FIRE HYDRANT
 - LAT - LATERAL
 - MH - MANHOLE
 - SS - SANITARY SEWER
 - SD - STORM DRAIN
 - SL - STREET LIGHT STANDARD
 - TEL - TELEPHONE
 - TWR - TOWER
 - VT - VAULT
 - WL - WATERLINE
 - WS - WATER SERVICE



REVISIONS			CALILAND ENGINEERING INC. 1210 S. GARFIELD AVE. SUITE 200 ALHAMBRA, CA. 91801 TEL: (626) 261-2268	
DATE	DESCRIPTION	APPRVD	PUBLIC IMPROVEMENT PLANS FOR TRACTS 1802 & 1856, MARIA VISTA ESTATES	
			COMPREHENSIVE UTILITY PLAN	
			Design/Drawn	County Plan Check: APPROVED FOR COUNTY REQUIREMENTS
			O.E. 5.3.04	Development Services Engineer Date
			Job No. 03-142	County W.O. No. P11D374 & P11D511
			FILE DATA:	California Coordinates KEVIN Y LAI RCE 80585 Date 4/19/04
			N 554	E 1264
				Sheet 3 of 57

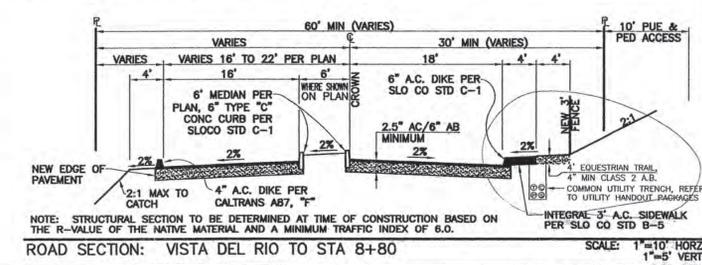


- DEMOLITION & PROTECTION NOTES:**
- SAWCUT TO COMPETENT A.C. AND/OR DEMOLISH AND REMOVE EXISTING A.C. PAVEMENT, LIMITS PER PLAN.
 - REMOVE AND SALVAGE EXISTING "STOP" SIGN. RELOCATE AS SHOWN ON PLANS OR REPLACE AS DIRECTED BY THE ENGINEER.
 - DEMOLISH AND REMOVE EXISTING FENCE, SEE GRADING PLANS.
 - DEMOLISH AND REMOVE EXISTING OVER SIDE DRAIN STRUCTURE INCLUDING PIPE, BROKEN CONCRETE, ETC.
 - REMOVE EXISTING SIGN (TYPE NOTED PER PLAN).
 - RELOCATE EXISTING SIGN BEHIND NEW CURB FACE (TYPE NOTED ON PLAN).
 - EXISTING TREE TO BE REMOVED (SIZE AND TYPE PER PLAN), SEE GRADING PLANS.
- ROAD CONSTRUCTION NOTES:**
- CONSTRUCT ASPHALT CONCRETE PAVEMENT ROAD SECTION PER STANDARD SECTION THIS SHEET.
 - CONSTRUCT 6" CONCRETE CURB & 18" CONCRETE GUTTER PER SAN LUIS OBISPO COUNTY STANDARD C-1.
 - CONSTRUCT 4' WIDE DETACHED CONCRETE SIDEWALK PER SAN LUIS OBISPO COUNTY STANDARD B-5.
 - CONSTRUCT CONCRETE CROSS GUTTER AND SPANDREL PER SAN LUIS OBISPO COUNTY STANDARD C-2.
 - CONSTRUCT CONCRETE CURB RAMP PER SAN LUIS OBISPO COUNTY STANDARD A88, CASE "E".
 - CONSTRUCT 16" WIDE CONCRETE DRIVEWAY PER SAN LUIS OBISPO COUNTY STANDARD B-3.
 - CONSTRUCT STANDARD STREET MONUMENT PER DETAIL SAN LUIS OBISPO COUNTY STANDARD M-1.
 - CONSTRUCT ROAD BARRICADE PER SAN LUIS OBISPO COUNTY STANDARD M-4, "L" PER PLAN.
 - CONSTRUCT COMBINATION "STOP" SIGN AND ROAD NAME SIGN PER SAN LUIS OBISPO COUNTY STANDARD M-6. ROAD NAME SIGN SHALL BE WHITE LETTERS ON GREEN BACKGROUND AND CONFORM TO COUNTY STANDARDS.
 - CONSTRUCT PAVEMENT TRANSITION, LENGTH PER PLAN.
 - CONSTRUCT CONCRETE CURB RAMP PER SAN LUIS OBISPO COUNTY STANDARD A88, CASE "D".
 - CONSTRUCT "STOP" SIGN ONLY PER SAN LUIS OBISPO COUNTY STANDARD M-6.
 - CONSTRUCT CONCRETE DRIVEWAY APRON PER SAN LUIS OBISPO COUNTY STANDARD B-3, WIDTH PER PLAN.
 - CONSTRUCT 6" ASPHALT CONCRETE DIKE PER SAN LUIS OBISPO COUNTY STANDARD C-1 (2" OR 4" AC DIKE AT GUARD RAIL LOCATIONS ON PLAN AND PER CALTRANS STD DWG A87, TYPE "F").
 - CONSTRUCT 4' WIDE ASPHALT CONCRETE SIDEWALK PER TYPICAL ROAD SECTION, THIS SHEET.
 - CONSTRUCT 16" WIDE ASPHALT CONCRETE DRIVEWAY PER SAN LUIS OBISPO COUNTY STANDARD B-4, MODIFIED WITH 4' WIDE ASPHALT CONCRETE SIDEWALK AT BACK OF APPROACH.
 - CONSTRUCT TEMPORARY WOOD RETAINING WALL PER DETAIL "C", SHEET D3.
 - CONSTRUCT NEW SPLIT RAIL (3 FOOT/2 RAIL) WOOD FENCE (THOLL FENCING, OR EQUAL) AT BACK OF TRAIL AND/OR 12" INSIDE TRACT BOUNDARY AS SHOWN ON PLAN.
 - CONSTRUCT NEW 6" CONCRETE CURB PER SAN LUIS OBISPO COUNTY STANDARD C-1, TYPE "C".
 - CONSTRUCT NEW METAL BEAM GUARD RAIL WITH 150x200mm WOOD POST & BLOCK, NARROW ROADWAY INSTALLATION, AND TYPE ET TERMINAL SYSTEM END TREATMENT (A77M) PER CALTRANS STANDARDS A77-SERIES AND SPECIFICATIONS (NOTE: 2" OR 4" TALL AC DIKE REQUIRED WHERE GUARD RAILS ARE SPECIFIED ON PLANS-SEE A77F).
 - "STOP" AND "LIMIT LINE" PER CALTRANS STANDARDS A24D & A24E.

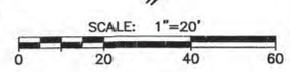
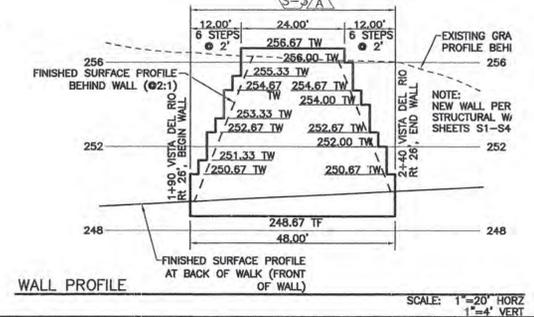


- DRAINAGE CONSTRUCTION NOTES:**
- REFER TO APPROVED GRADING PLANS AND GRADING PLAN ADDENDUM SHEETS FOR STORM DRAINAGE CONSTRUCTION INFORMATION. STORM DRAINAGE INFORMATION PRESENTED HEREIN IS FOR REFERENCE ONLY.
- NEW RCP CLASS 3 STORM DRAIN PER APPROVED GRADING PLANS, SIZE PER PLAN.
 - NEW STORM DRAIN CATCH BASIN (SAN LUIS OBISPO COUNTY STANDARD C-3) PER APPROVED GRADING PLANS.
 - NEW STORM DRAIN CATCH BASIN (CALTRANS TYPE "GDD") PER APPROVED GRADING PLANS.
 - NEW ROCK SLOPE PROTECTION PER 2002 CALTRANS SPECIFICATIONS, FACING CLASS, METHOD "B" PLACEMENT, ROCK FIELD SIZE PER PLAN (LENGTHxWIDTHxDEPTH).
 - CONSTRUCT OVER SIDE DRAIN PER DETAIL "A", SHEET D3.
 - NEW STORM DRAIN MANHOLE (APWA STD PLAN 320-0).
 - CONSTRUCT NEW CONCRETE SIDEWALK UNDER DRAIN PER DETAIL "D", SHEET D3 (W=2').
 - CONSTRUCT OVER SIDE DRAIN PER 2002 CALTRANS D87A, TYPE 1 W/ TYPE A DIKE, 12" SD, "L" PER PLAN.
 - CONSTRUCT BROW DITCH PER DETAIL G3, SHEET D3

- UTILITY CONSTRUCTION NOTES:**
- ALL WATER AND SEWER LINES AND APPURTENANCES SHALL BE INSTALLED AND TESTED PER THE LATEST EDITION OF THE NIPOMO COMMUNITY SERVICES DISTRICT (NCS) STANDARDS AND SPECIFICATIONS. THE INSTALLATION OF ALL GAS AND WIRE (CABLE, TELEPHONE, ELECTRIC, ETC.) UTILITIES SHALL BE COORDINATED WITH THE RESPECTIVE UTILITY COMPANY.
- CONSTRUCT PVC C900 WATERLINE PER NCS STANDARD W-8 AND SPECIFICATIONS (SIZE PER PLAN).
 - CONSTRUCT FIRE HYDRANT ASSEMBLY PER NCS STANDARD W-1.
 - CONSTRUCT WATER SERVICE CONNECTION PER NCS STANDARD W-4.
 - CONSTRUCT WATERLINE 1" AIR & VACUUM RELIEF ASSEMBLY PER NCS STANDARD W-5.
 - CONSTRUCT WATERLINE BLOW-OFF ASSEMBLY PER NCS STANDARD W-7.
 - CONSTRUCT WATERLINE VERTICAL BEND PER DETAIL "E", SHEET D3.
 - CONSTRUCT PRESSURE RELIEF VALVE ASSEMBLY PER DETAIL F, SHEET D3.
 - CONSTRUCT NEW PVC SDR35 SEWER LINE PER NCS STANDARD W-8 AND SPECIFICATIONS (SIZE PER PLAN).
 - CONSTRUCT NEW SEWER MANHOLE PER NCS STANDARDS S-1 & S-2.
 - CONSTRUCT NEW SEWER CLEAN OUT PER NCS STANDARD S-4.
 - CONSTRUCT NEW 4" PVC SDR35 SEWER LATERAL PER NCS STANDARD S-5.
 - NEW 4" SANITARY SEWER FORCE MAIN (SHOWN FOR REFERENCE ONLY, TO BE CONSTRUCTED UNDER SEPARATE DOCUMENT).
 - INSTALL ELECTRIC, TELEPHONE, & CATV UTILITY PULL AND SPLICE BOXES PER RESPECTIVE UTILITY COMPANY STANDARDS AND SPECIFICATIONS.
 - INSTALL NEW STREET LIGHT STANDARD PER DETAIL "B", SHEET D3.
 - COORDINATE NEW GAS LINE TRENCHING WITH THE GAS COMPANY PRIOR TO CONSTRUCTION.
 - CONSTRUCT GAS LINE SERVICE LATERAL, STUB AND CAP 3" INSIDE PROPERTY LINE.



CURVE TABLE				CURVE TABLE					
CURVE	LENGTH	RADIUS	TANGENT	DELTA	CURVE	LENGTH	RADIUS	TANGENT	DELTA
C4	49.20	30.00	32.15	93°57'38"	C25	327.57	800.00	167.98	311°16'51"
C5	41.50	30.00	24.85	79°15'53"	C26	9.65	594.00	4.83	0°56'49"
C14	283.84	800.00	143.43	20°19'42"	C27	33.09	120.00	16.65	15°47'50"
C15	202.44	782.00	101.79	14°49'57"	C28	21.84	120.00	10.95	10°25'35"
C16	37.84	830.00	18.92	2°38'44"	C29	96.33	578.00	48.28	9°32'57"
C17	28.47	120.00	14.30	1°35'43"	C30	9.42	3.00	INFINITE	180°00'00"
C18	13.47	120.00	6.74	0°28'00"	C31	83.97	800.00	47.08	0°58'24"
C19	9.42	3.00	INFINITE	180°00'00"	C32	93.03	594.00	46.61	0°58'24"
C20	94.02	800.00	47.07	6°44'02"	C33	9.42	3.00	INFINITE	180°00'00"
C21	9.42	3.00	INFINITE	180°00'00"	C34	21.84	120.00	10.95	10°25'35"
C22	94.73	806.00	47.42	6°44'02"					
C23	85.51	816.00	42.80	6°00'16"					
C24	337.40	618.00	173.02	31°16'51"					



REVISIONS		CALILAND ENGINEERING INC. 1216 S. GARFIELD AVE., SUITE 200 ALHAMBRA, CA 91807 TEL: (626) 261-2288
DATE	DESCRIPTION	
PUBLIC IMPROVEMENT PLANS FOR		TRACTS 1802 & 1856, MARIA VISTA ESTATES VISTA DEL RIO: STA 0+35.26 TO 5+00
DESIGN/DRAWN	COUNTY PLAN CHECK	
Job No. 03-142	County W.O. No. P11D374 & P11D511	APPROVED FOR COUNTY REQUIREMENTS Development Services Engineer KEVIN Y LAI RCE 60565 Date: 6-19-04
FILE DATA:	California Coordinates	N 554 E 1264 Sheet 9 of 57



With either scenario, prior to the start of work, the existing asphalt concrete (AC) would be ground and used to construct a temporary roadway that will allow two-way traffic to bypass the construction area during the construction period.

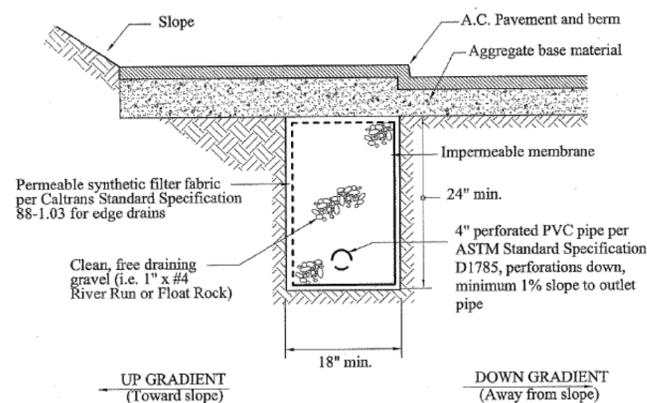
9.0 RECOMMENDATIONS
Site Preparation and Grading

- 1. The site should be prepared for construction by removing the existing landscape islands, debris, and other deleterious materials throughout the project area (i.e. from the western edge of the intersection of Hutton Road to Sta. 7+35 +/-).
2. The existing AC in the project area should then be ground and may be used to build a temporary roadway as wide as necessary to maintain two-way traffic.
3. If a two-depth approach is specified, from Station 7+35 +/- to Station 5+25 +/-, the soil should be removed to a depth of at least 12 inches below planned AC grade and a new subgrade established.
4. After a stable subgrade has been confirmed, a single layer of geogrid (Tensor TX-160 or approved equivalent) should be placed upon the prepared subgrade per the manufacturer's recommendations.
5. A minimum of 9 inches of Class 2 aggregate base should then be placed, moisture conditioned, and compacted to a minimum of 95 percent of maximum dry density.
6. From Station 5+25 +/- to the western edge of the intersection with Hutton Road, the soil should be overexcavated to a minimum depth of 5 feet below the planned AC surface.

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EDGE DRAIN DETAIL, TYPICAL

VISTA DEL RIO ROAD REPAIR
Vista Del Rio Road at Hutton Road
Nipomo, California



SCHEMATIC ONLY
NOT TO SCALE



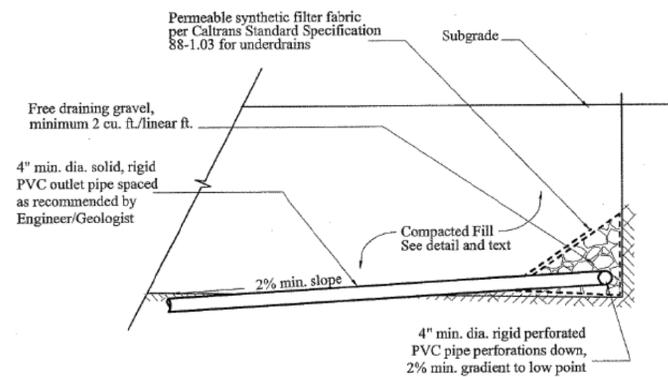
conditioned to optimum moisture content, or just above, and recompact to a minimum of 95 percent of maximum dry density. A back drain should then be placed within the excavation; please see Appendix D for a typical back drain detail.

- 7. The same type of geogrid as described previously should then be placed, per the manufacturer's recommendations, throughout the excavation with at least 8 feet of extra material on the outer edge.
8. Following compaction of 2 feet of fill in the excavation, the geogrid fabric should be wrapped around the face of the fill, and extended a minimum of 6 feet back on the compacted fill surface.
9. Following proofrolling of the subgrade, the geogrid should be wrapped around the face of the fill and 6 feet back onto the subgrade.
10. A minimum of 9 inches of Class 2 aggregate base should be placed on the geogrid/subgrade, moisture conditioned, and compacted to a minimum of 95 percent of maximum dry density.
11. An edge drain should be installed along the entire north side of the road bed.
12. If a single-depth overexcavation program is preferred, the deeper program (i.e. that recommended from Sta. 5+25 +/- to Hutton Road) should be extended throughout the entire project.

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BACK DRAIN DETAIL, TYPICAL

VISTA DEL RIO ROAD REPAIR
Vista Del Rio Road at Hutton Road
Nipomo, California



Note: A prefabricated panel drainage system (Advanedge, Miradrain, etc.) may be substituted for the gravel / pipe system, provided it is installed in accordance with the manufacturer's recommendations

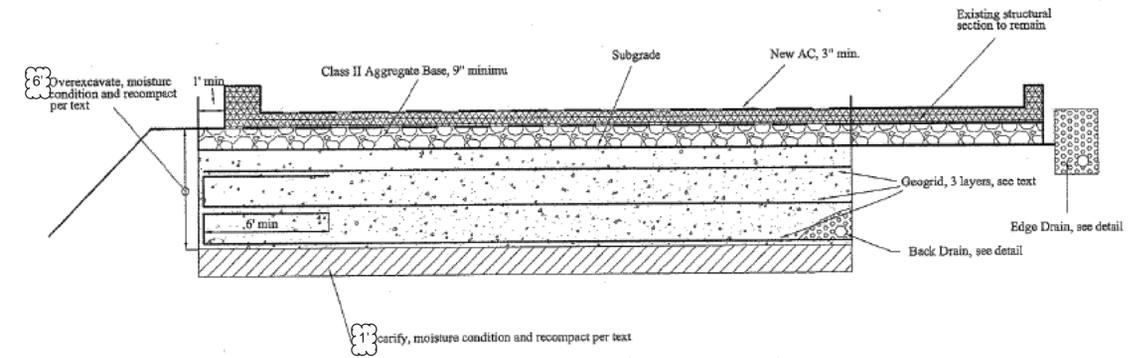
SCHEMATIC ONLY
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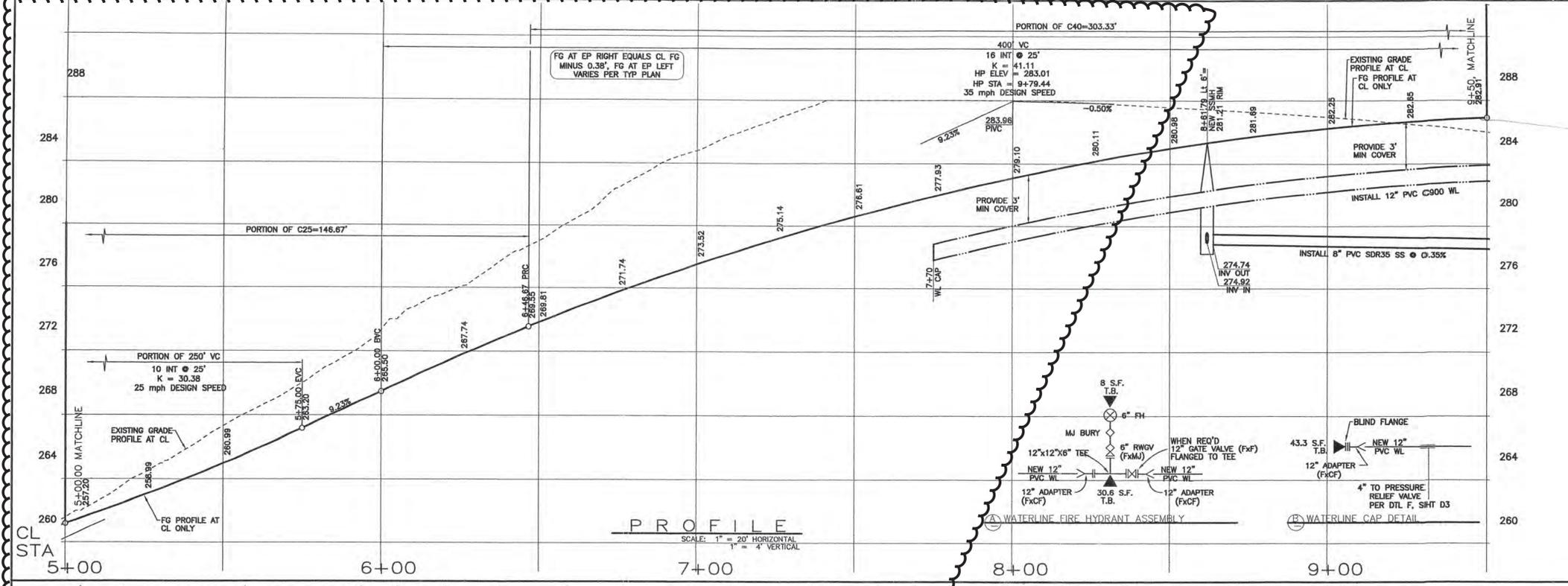
- 13. All geogrid should be placed in accordance with manufacturer's recommendations.
14. Once the road fill and base has been reconstructed, the entire project should be paved with a minimum of 3 inches of AC.
15. The overexcavated soils may be re-used as fill soil. In general, all materials used as fill should be cleaned of all debris, and any rocks larger than 3 inches in diameter.
16. All fill should be placed with moisture contents at optimum moisture content or just above.
17. The recommended soil moisture content should be maintained throughout construction.
18. Stabilization of surface soils during and following construction is essential to reduce the potential for erosion damage.
19. To reduce the potential for disruption of drainage patterns, rodent activity should be aggressively controlled.

OVEREXCAVATION & GEOGRID DETAIL, TYPICAL

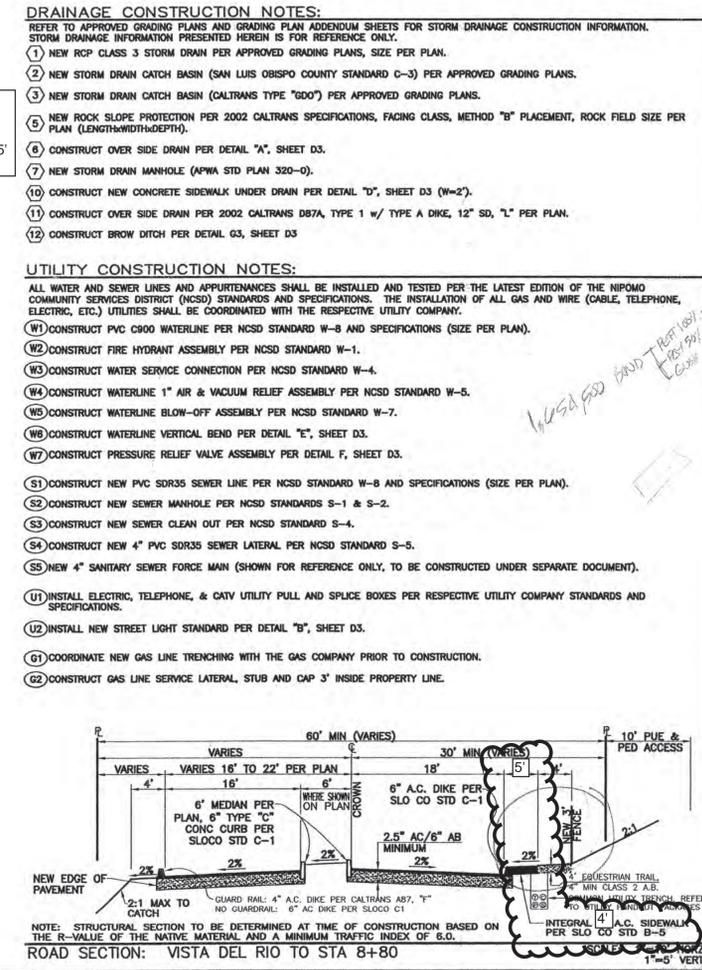
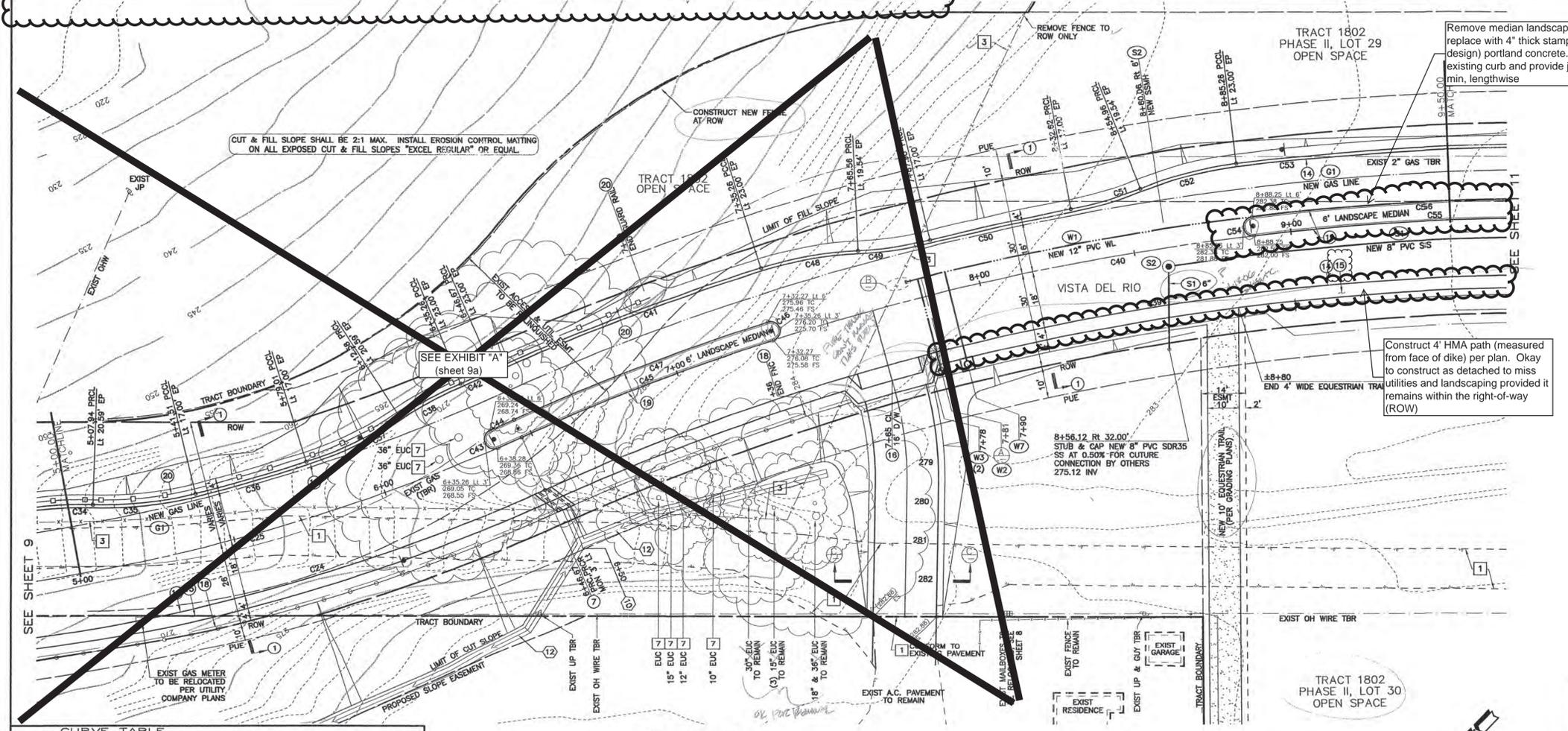
VISTA DEL RIO ROAD REPAIR
Vista Del Rio Road at Hutton Road
Nipomo, California



SCHEMATIC ONLY
NOT TO SCALE

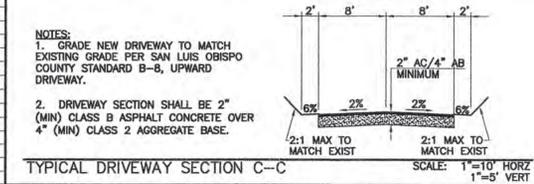


- DEMOLITION & PROTECTION NOTES:**
- SAWCUT TO COMPETENT A.C. AND/OR DEMOLISH AND REMOVE EXISTING A.C. PAVEMENT, LIMITS PER PLAN.
 - REMOVE AND SALVAGE EXISTING "STOP" SIGN. RELOCATE AS SHOWN ON PLANS OR REPLACE AS DIRECTED BY THE ENGINEER.
 - DEMOLISH AND REMOVE EXISTING FENCE, SEE GRADING PLANS.
 - DEMOLISH AND REMOVE EXISTING OVER SIDE DRAIN STRUCTURE INCLUDING PIPE, BROKEN CONCRETE, ETC.
 - REMOVE EXISTING SIGN (TYPE NOTED PER PLAN).
 - RELOCATE EXISTING SIGN BEHIND NEW CURB FACE (TYPE NOTED ON PLAN).
 - EXISTING TREE TO BE REMOVED (SIZE AND TYPE PER PLAN), SEE GRADING PLANS.
- ROAD CONSTRUCTION NOTES:**
- CONSTRUCT ASPHALT CONCRETE PAVEMENT ROAD SECTION PER STANDARD SECTION THIS SHEET.
 - CONSTRUCT 6" CONCRETE CURB & 18" CONCRETE GUTTER PER SAN LUIS OBISPO COUNTY STANDARD C-1.
 - CONSTRUCT 4" WIDE DETACHED CONCRETE SIDEWALK PER SAN LUIS OBISPO COUNTY STANDARD B-5.
 - CONSTRUCT CONCRETE CROSS GUTTER AND SPANDREL PER SAN LUIS OBISPO COUNTY STANDARD C-2.
 - CONSTRUCT CONCRETE CURB RAMP PER SAN LUIS OBISPO COUNTY STANDARD ABB, CASE "E".
 - CONSTRUCT 18" WIDE CONCRETE DRIVEWAY PER SAN LUIS OBISPO COUNTY STANDARD B-3.
 - CONSTRUCT STANDARD STREET MONUMENT PER DETAIL SAN LUIS OBISPO COUNTY STANDARD M-1.
 - CONSTRUCT ROAD BARRICADE PER SAN LUIS OBISPO COUNTY STANDARD M-4, "L" PER PLAN.
 - CONSTRUCT COMBINATION "STOP" SIGN AND ROAD NAME SIGN PER SAN LUIS OBISPO COUNTY STANDARD M-6. ROAD NAME SIGN SHALL BE WHITE LETTERS ON GREEN BACKGROUND AND CONFORM TO COUNTY STANDARDS.
 - CONSTRUCT PAVEMENT TRANSITION, LENGTH PER PLAN.
 - CONSTRUCT CONCRETE CURB RAMP PER SAN LUIS OBISPO COUNTY STANDARD ABB, CASE "D".
 - CONSTRUCT "STOP" SIGN ONLY PER SAN LUIS OBISPO COUNTY STANDARD M-6.
 - CONSTRUCT CONCRETE DRIVEWAY APRON PER SAN LUIS OBISPO COUNTY STANDARD B-3, WIDTH PER PLAN.
 - CONSTRUCT 6" ASPHALT CONCRETE DIKE PER SAN LUIS OBISPO COUNTY STANDARD C-1 (2" OR 4" AC DIKE AT GUARD RAIL LOCATIONS ON PLAN AND PER CALTRANS STD DWG A87, TYPE "F").
 - CONSTRUCT 4" WIDE ASPHALT CONCRETE SIDEWALK PER TYPICAL ROAD SECTION, THIS SHEET.
 - CONSTRUCT 18" WIDE ASPHALT CONCRETE DRIVEWAY PER SAN LUIS OBISPO COUNTY STANDARD B-4, MODIFIED WITH 4" WIDE ASPHALT CONCRETE SIDEWALK AT BACK OF APPROACH.
 - CONSTRUCT TEMPORARY ROAD RETAINING WALL PER DETAIL "C", SHEET D3.
 - CONSTRUCT NEW SPLIT RAIL (3 FOOT/2 RAIL) WOOD FENCE (THOLL FENCING, OR EQUAL) AT BACK OF TRAIL AND/OR 12" SIDE TRACT BOUNDARY AS SHOWN ON PLAN.
 - CONSTRUCT NEW 6" CONCRETE CURB PER SAN LUIS OBISPO COUNTY STANDARD C-1, TYPE "C".
 - CONSTRUCT NEW METAL BEAM GUARD RAIL WITH 150x200mm WOOD POST & BLOCK, NARROW ROADWAY INSTALLATION, AND TYPE ET TERMINAL SYSTEM END TREATMENT (A77M) PER CALTRANS STANDARDS A77-SERIES AND SPECIFICATIONS (NOTE: 2" OR 4" TALL AC DIKE REQUIRED WHERE GUARD RAILS ARE SPECIFIED ON PLANS-SEE A77F).
 - "STOP" AND "LIMIT LINE" PER CALTRANS STANDARDS A240 & A24E.
- DRAINAGE CONSTRUCTION NOTES:**
- REFER TO APPROVED GRADING PLANS AND GRADING PLAN ADDENDUM SHEETS FOR STORM DRAINAGE CONSTRUCTION INFORMATION. STORM DRAINAGE INFORMATION PRESENTED HEREIN IS FOR REFERENCE ONLY.
- NEW RCP CLASS 3 STORM DRAIN PER APPROVED GRADING PLANS, SIZE PER PLAN.
 - NEW STORM DRAIN CATCH BASIN (SAN LUIS OBISPO COUNTY STANDARD C-3) PER APPROVED GRADING PLANS.
 - NEW STORM DRAIN CATCH BASIN (CALTRANS TYPE "D0") PER APPROVED GRADING PLANS.
 - NEW ROCK SLOPE PROTECTION PER 2002 CALTRANS SPECIFICATIONS, FACING CLASS, METHOD "B" PLACEMENT, ROCK FIELD SIZE PER PLAN (LENGTH/WIDTH/DEPTH).
 - CONSTRUCT OVER SIDE DRAIN PER DETAIL "A", SHEET D3.
 - NEW STORM DRAIN MANHOLE (APWA STD PLAN 320-0).
 - CONSTRUCT NEW CONCRETE SIDEWALK UNDER DRAIN PER DETAIL "D", SHEET D3 (W=2").
 - CONSTRUCT OVER SIDE DRAIN PER 2002 CALTRANS D87A, TYPE 1 W/ TYPE A DIKE, 12" SD, "L" PER PLAN.
 - CONSTRUCT BROW DITCH PER DETAIL G3, SHEET D3.
- UTILITY CONSTRUCTION NOTES:**
- ALL WATER AND SEWER LINES AND APPURTENANCES SHALL BE INSTALLED AND TESTED PER THE LATEST EDITION OF THE NIPOMO COMMUNITY SERVICES DISTRICT (NCS) STANDARDS AND SPECIFICATIONS. THE INSTALLATION OF ALL GAS AND WIRE (CABLE, TELEPHONE, ELECTRIC, ETC.) UTILITIES SHALL BE COORDINATED WITH THE RESPECTIVE UTILITY COMPANY.
- CONSTRUCT PVC C900 WATERLINE PER NCS STANDARD W-8 AND SPECIFICATIONS (SIZE PER PLAN).
 - CONSTRUCT FIRE HYDRANT ASSEMBLY PER NCS STANDARD W-1.
 - CONSTRUCT WATER SERVICE CONNECTION PER NCS STANDARD W-4.
 - CONSTRUCT WATERLINE 1" AIR & VACUUM RELIEF ASSEMBLY PER NCS STANDARD W-5.
 - CONSTRUCT WATERLINE BLOW-OFF ASSEMBLY PER NCS STANDARD W-7.
 - CONSTRUCT WATERLINE VERTICAL BEND PER DETAIL "E", SHEET D3.
 - CONSTRUCT PRESSURE RELIEF VALVE ASSEMBLY PER DETAIL F, SHEET D3.
 - CONSTRUCT NEW PVC SDR35 SEWER LINE PER NCS STANDARD W-8 AND SPECIFICATIONS (SIZE PER PLAN).
 - CONSTRUCT NEW SEWER MANHOLE PER NCS STANDARDS S-1 & S-2.
 - CONSTRUCT NEW SEWER CLEAN OUT PER NCS STANDARD S-4.
 - CONSTRUCT NEW 4" PVC SDR35 SEWER LATERAL PER NCS STANDARD S-5.
 - CONSTRUCT NEW 4" SANITARY SEWER FORCE MAIN (SHOWN FOR REFERENCE ONLY, TO BE CONSTRUCTED UNDER SEPARATE DOCUMENT).
 - INSTALL ELECTRIC, TELEPHONE, & CATV UTILITY PULL AND SPLICE BOXES PER RESPECTIVE UTILITY COMPANY STANDARDS AND SPECIFICATIONS.
 - INSTALL NEW STREET LIGHT STANDARD PER DETAIL "B", SHEET D3.
 - COORDINATE NEW GAS LINE TRENCHING WITH THE GAS COMPANY PRIOR TO CONSTRUCTION.
 - CONSTRUCT GAS LINE SERVICE LATERAL, STUB AND CAP 3" INSIDE PROPERTY LINE.



CURVE TABLE

CURVE	LENGTH	RADIUS	TANGENT	DELTA	C43	9.42	3.00	INFINITE	180°00'00"
C24	337.40	618.00	173.02	31°16'51"	C44	8.31	594.00	4.16	0°48'06"
C25	327.57	600.00	167.98	31°16'51"	C45	85.60	800.00	42.84	6°07'50"
C34	21.84	120.00	10.95	10°25'35"	C46	9.42	3.00	INFINITE	180°00'00"
C35	33.09	120.00	16.65	15°47'50"	C47	86.24	806.00	43.16	6°07'50"
C36	36.51	594.00	19.28	3°34'55"	C48	31.12	120.00	15.65	14°51'32"
C37	33.09	120.00	16.65	15°47'50"	C49	23.22	120.00	11.65	11°05'20"
C38	21.84	120.00	10.95	10°25'35"	C50	45.61	816.00	22.81	3°12'10"
C39	340.91	782.00	173.20	24°58'39"	C51	23.22	120.00	11.65	11°05'20"
C40	348.75	800.00	177.19	24°58'39"	C52	31.12	120.00	15.65	14°51'32"
C41	91.02	822.00	45.56	6°20'41"	C53	127.78	822.00	64.02	8°54'23"
C42	10.99	578.00	5.50	1°05'23"	C54	9.42	3.00	INFINITE	180°00'00"
					C55	94.02	800.00	47.07	6°44'02"



NOTES:

- GRADE NEW DRIVEWAY TO MATCH EXISTING GRADE PER SAN LUIS OBISPO COUNTY STANDARD B-8, UPWARD DRIVEWAY.
- DRIVEWAY SECTION SHALL BE 2" (MIN) CLASS B ASPHALT CONCRETE OVER 4" (MIN) CLASS 2 AGGREGATE BASE.

PROFESSIONAL ENGINEER
YUON LAI
NO. C-0058
EXP. 12/31/2004
CIVIL
STATE OF CALIFORNIA

SCALE: 1"=20'

0 20 40 60

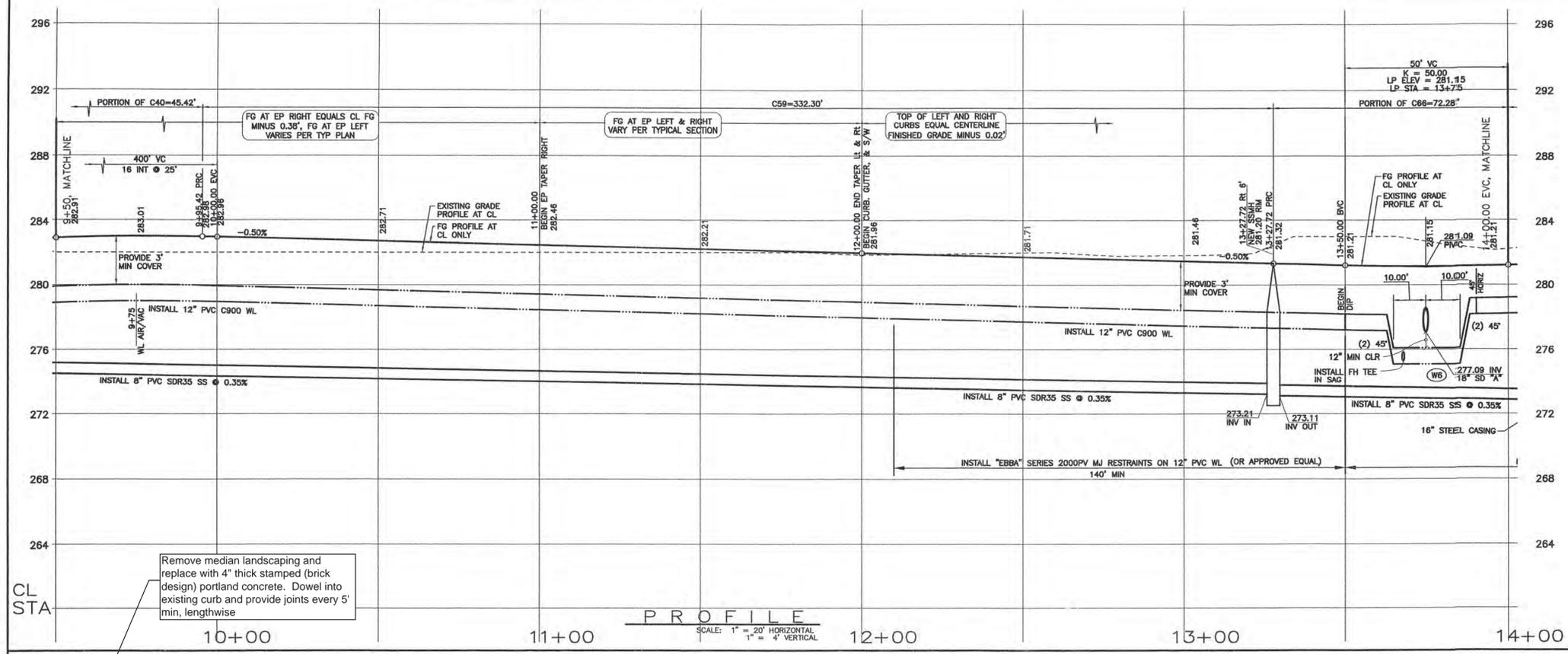
REVISIONS

DATE	DESCRIPTION	APPROV

CALILAND ENGINEERING INC.
1216 S. GARFIELD AVE, SUITE 200
ALHAMBRA, CA 91801
TEL (626) 281-2288

PUBLIC IMPROVEMENT PLANS FOR TRACTS 1802 & 1856, MARIA VISTA ESTATES
VISTA DEL RIO: STA 5+00 TO 9+50

Design/Drawn: County Plan Check APPROVED FOR COUNTY REQUIREMENTS
Date: 05-30-04
Development Services Engineer: KEVIN Y LAI
Job No.: 03-142
County W.O. No.: P11D37A & P11D311
California Coordinates: N 554 E 1264
Sheet: 10 of 57



- DEMOLITION & PROTECTION NOTES:**
- 1 SAWCUT TO COMPETENT A.C. AND/OR DEMOLISH AND REMOVE EXISTING A.C. PAVEMENT, LIMITS PER PLAN.
 - 2 REMOVE AND SALVAGE EXISTING "STOP" SIGN. RELOCATE AS SHOWN ON PLANS OR REPLACE AS DIRECTED BY THE ENGINEER.
 - 3 DEMOLISH AND REMOVE EXISTING FENCE, SEE GRADING PLANS.
 - 4 DEMOLISH AND REMOVE EXISTING OVER SIDE DRAIN STRUCTURE INCLUDING PIPE, BROKEN CONCRETE, ETC.
 - 5 REMOVE EXISTING SIGN (TYPE NOTED PER PLAN).
 - 6 RELOCATE EXISTING SIGN BEHIND NEW CURB FACE (TYPE NOTED ON PLAN).
 - 7 EXISTING TREE TO BE REMOVED (SIZE AND TYPE PER PLAN), SEE GRADING PLANS.
- ROAD CONSTRUCTION NOTES:**
- 1 CONSTRUCT ASPHALT CONCRETE PAVEMENT ROAD SECTION PER STANDARD SECTION THIS SHEET.
 - 2 CONSTRUCT 6" CONCRETE CURB & 18" CONCRETE GUTTER PER SAN LUIS OBISPO COUNTY STANDARD C-1.
 - 3 CONSTRUCT 4" WIDE DETACHED CONCRETE SIDEWALK PER SAN LUIS OBISPO COUNTY STANDARD B-5.
 - 4 CONSTRUCT CONCRETE CROSS GUTTER AND SPANDREL PER SAN LUIS OBISPO COUNTY STANDARD C-2.
 - 5 CONSTRUCT CONCRETE CURB RAMP PER SAN LUIS OBISPO COUNTY STANDARD ABS, CASE "E".
 - 6 CONSTRUCT 16" WIDE CONCRETE DRIVEWAY PER SAN LUIS OBISPO COUNTY STANDARD B-3.
 - 7 CONSTRUCT STANDARD STREET MONUMENT PER DETAIL SAN LUIS OBISPO COUNTY STANDARD M-1.
 - 8 CONSTRUCT ROAD BARRICADE PER SAN LUIS OBISPO COUNTY STANDARD M-4, "L" PER PLAN.
 - 9 CONSTRUCT COMBINATION "STOP" SIGN AND ROAD NAME SIGN PER SAN LUIS OBISPO COUNTY STANDARD M-6. ROAD NAME SIGN SHALL BE WHITE LETTERS ON GREEN BACKGROUND AND CONFORM TO COUNTY STANDARDS.
 - 10 CONSTRUCT PAVEMENT TRANSITION, LENGTH PER PLAN.
 - 11 CONSTRUCT CONCRETE CURB RAMP PER SAN LUIS OBISPO COUNTY STANDARD ABS, CASE "D".
 - 12 CONSTRUCT "STOP" SIGN ONLY PER SAN LUIS OBISPO COUNTY STANDARD M-6.
 - 13 CONSTRUCT CONCRETE DRIVEWAY APRON PER SAN LUIS OBISPO COUNTY STANDARD B-3, WIDTH PER PLAN.
 - 14 CONSTRUCT 6" ASPHALT CONCRETE DIKE PER SAN LUIS OBISPO COUNTY STANDARD C-1 (2" OR 4" AC DIKE AT GUARD RAIL LOCATIONS ON PLAN AND PER CALTRANS STD DWG A67, TYPE "T").
 - 15 CONSTRUCT 4" WIDE ASPHALT CONCRETE SIDEWALK PER TYPICAL ROAD SECTION, THIS SHEET.
 - 16 CONSTRUCT 16" WIDE ASPHALT CONCRETE DRIVEWAY PER SAN LUIS OBISPO COUNTY STANDARD B-4, MODIFIED WITH 4" WIDE ASPHALT CONCRETE SIDEWALK AT BACK OF APPROACH.
 - 17 CONSTRUCT TEMPORARY WOOD RETAINING WALL PER DETAIL "C", SHEET D3.
 - 18 CONSTRUCT NEW SPLIT RAIL (3 FOOT/2 RAIL) WOOD FENCE (THOLL FENCING, OR EQUAL) AT BACK OF TRAIL AND/OR 12" INSIDE TRACT BOUNDARY AS SHOWN ON PLAN.
 - 19 CONSTRUCT NEW 6" CONCRETE CURB PER SAN LUIS OBISPO COUNTY STANDARD C-1, TYPE "C".
 - 20 CONSTRUCT NEW METAL BEAM GUARD RAIL WITH 150x200mm WOOD POST & BLOCK, NARROW ROADWAY INSTALLATION, AND TYPE ET TERMINAL SYSTEM END TREATMENT (A77M) PER CALTRANS STANDARDS A77-SERIES AND SPECIFICATIONS (NOTE: 2" OR 4" TALL AC DIKE REQUIRED WHERE GUARD RAILS ARE SPECIFIED ON PLANS-SEE A77).
 - 21 "STOP" AND "LIMIT LINE" PER CALTRANS STANDARDS A240 & A24E.

- DRAINAGE CONSTRUCTION NOTES:**
- REFER TO APPROVED GRADING PLANS AND GRADING PLAN ADDENDUM SHEETS FOR STORM DRAINAGE CONSTRUCTION INFORMATION. STORM DRAINAGE INFORMATION PRESENTED HEREIN IS FOR REFERENCE ONLY.
- 1 NEW RCP CLASS 3 STORM DRAIN PER APPROVED GRADING PLANS, SIZE PER PLAN.
 - 2 NEW STORM DRAIN CATCH BASIN (SAN LUIS OBISPO COUNTY STANDARD C-3) PER APPROVED GRADING PLANS.
 - 3 NEW STORM DRAIN CATCH BASIN (CALTRANS TYPE "G00") PER APPROVED GRADING PLANS.
 - 4 NEW ROCK SLOPE PROTECTION PER 2002 CALTRANS SPECIFICATIONS, FACING CLASS, METHOD "B" PLACEMENT, ROCK FIELD SIZE PER PLAN (LENGTHxWIDTHxDEPTH).
 - 5 CONSTRUCT OVER SIDE DRAIN PER DETAIL "A", SHEET D3.
 - 6 NEW STORM DRAIN MANHOLE (APWA STD PLAN 320-0).
 - 7 CONSTRUCT NEW CONCRETE SIDEWALK UNDER DRAIN PER DETAIL "D", SHEET D3 (W=2').
 - 8 CONSTRUCT OVER SIDE DRAIN PER 2002 CALTRANS D87A, TYPE 1 W/ TYPE A DIKE, 12" SD, "L" PER PLAN.
 - 9 CONSTRUCT BROW DITCH PER DETAIL G3, SHEET D3.
- UTILITY CONSTRUCTION NOTES:**
- ALL WATER AND SEWER LINES AND APPURTENANCES SHALL BE INSTALLED AND TESTED PER THE LATEST EDITION OF THE NIPOMO COMMUNITY SERVICES DISTRICT (NCS) STANDARDS AND SPECIFICATIONS. THE INSTALLATION OF ALL GAS AND WIRE (CABLE, TELEPHONE, ELECTRIC, ETC.) UTILITIES SHALL BE COORDINATED WITH THE RESPECTIVE UTILITY COMPANY.
- 11 CONSTRUCT PVC C900 WATERLINE PER NCS STANDARD W-8 AND SPECIFICATIONS (SIZE PER PLAN).
 - 12 CONSTRUCT FIRE HYDRANT ASSEMBLY PER NCS STANDARD W-1.
 - 13 CONSTRUCT WATER SERVICE CONNECTION PER NCS STANDARD W-4.
 - 14 CONSTRUCT WATERLINE 1" AIR & VACUUM RELIEF ASSEMBLY PER NCS STANDARD W-5.
 - 15 CONSTRUCT WATERLINE BLOW-OFF ASSEMBLY PER NCS STANDARD W-7.
 - 16 CONSTRUCT WATERLINE VERTICAL BEND PER DETAIL "E", SHEET D3.
 - 17 CONSTRUCT PRESSURE RELIEF VALVE ASSEMBLY PER DETAIL F, SHEET D3.
 - 18 CONSTRUCT NEW PVC SDR35 SEWER LINE PER NCS STANDARD W-8 AND SPECIFICATIONS (SIZE PER PLAN).
 - 19 CONSTRUCT NEW SEWER MANHOLE PER NCS STANDARDS S-1 & S-2.
 - 20 CONSTRUCT NEW SEWER CLEAN OUT PER NCS STANDARD S-4.
 - 21 CONSTRUCT NEW 4" PVC SDR35 SEWER LATERAL PER NCS STANDARD S-5.
 - 22 NEW 4" SANITARY SEWER FORCE MAIN (SHOWN FOR REFERENCE ONLY, TO BE CONSTRUCTED UNDER SEPARATE DOCUMENT).
 - 23 INSTALL ELECTRIC, TELEPHONE, & CATV UTILITY PULL AND SPLICE BOXES PER RESPECTIVE UTILITY COMPANY STANDARDS AND SPECIFICATIONS.
 - 24 INSTALL NEW STREET LIGHT STANDARD PER DETAIL "B", SHEET D3.
 - 25 COORDINATE NEW GAS LINE TRENCHING WITH THE GAS COMPANY PRIOR TO CONSTRUCTION.
 - 26 CONSTRUCT GAS LINE SERVICE LATERAL, STUB AND CAP 3" INSIDE PROPERTY LINE.

Remove median landscaping and replace with 4" thick stamped (brick design) portland concrete. Dowel into existing curb and provide joints every 5' min. lengthwise.

Remove exist 30' (approx) HMA driveway apron and replace with HMA dike per Road Construction Note 14.

Install approx 35 If Caltrans Detail 22 centerline stripe.

Remove & replace existing 35'x40' pavement section per typical road section, this sheet.

Remove exist 30' (approx) HMA driveway apron and replace with HMA dike per Road Construction Note 14.

Install approx 35 If Caltrans Detail 22 centerline stripe.

Remove & replace existing 35'x40' pavement section per typical road section, this sheet.

Construct 4' HMA path (measured from face of dike) per plan. Okay to construct as detached to miss utilities and landscaping provided it remains within the right-of-way (ROW).

EXISTING ASPHALT DRIVEWAY TO BE REMOVED PER GRADING PLANS.

EXIST ON WIRE TBR.

EXIST JP & GUYS TBR.

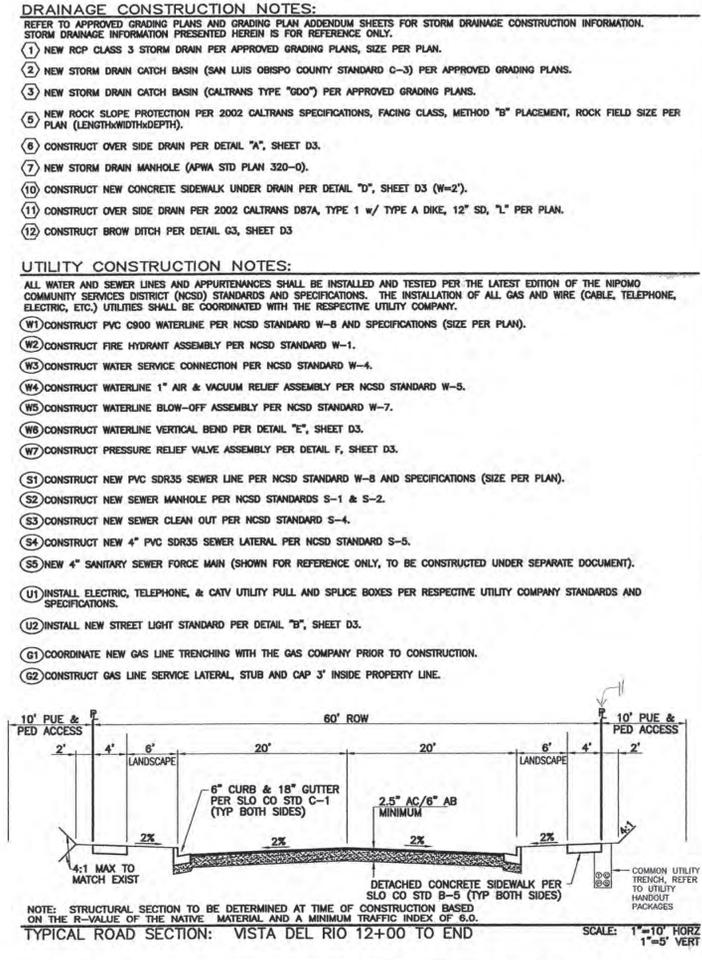
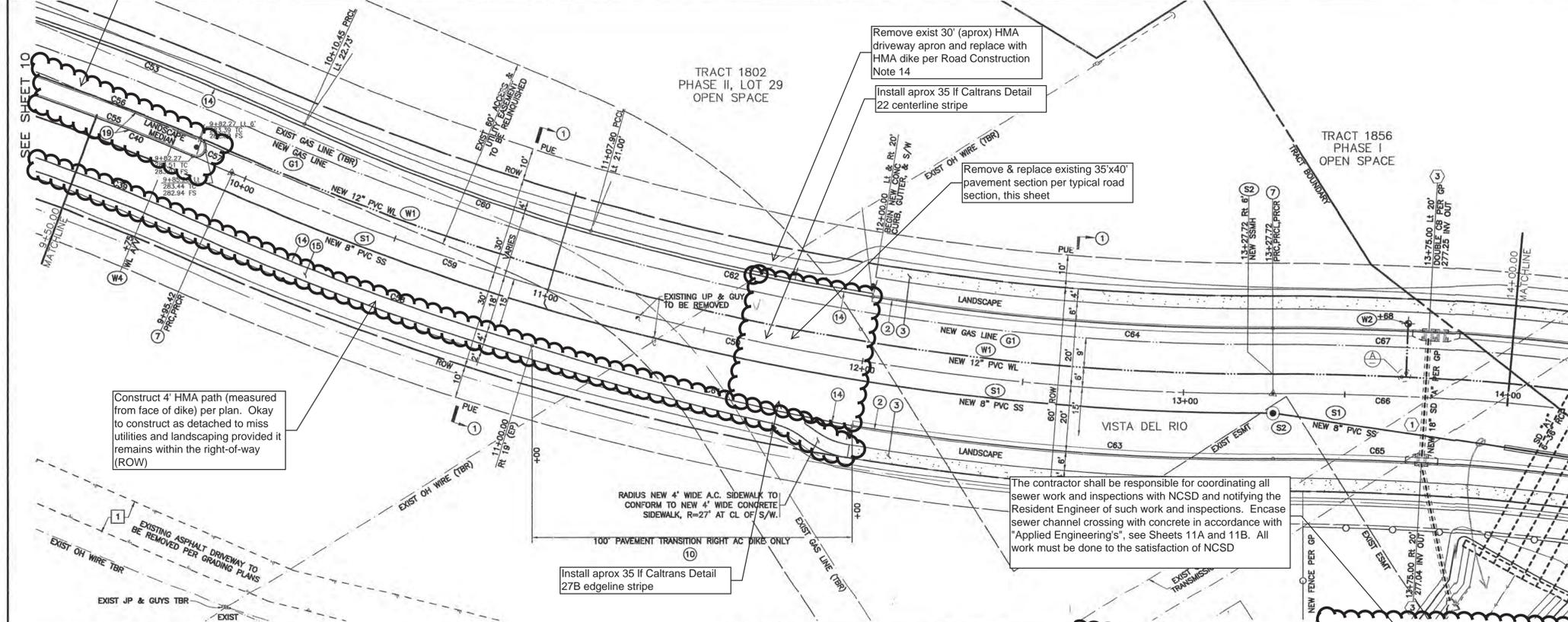
REMOVE UP & GUY TO BE REMOVED.

RADIUS NEW 4" WIDE A.C. SIDEWALK TO CONFORM TO NEW 4" WIDE CONCRETE SIDEWALK, R=27' AT CL OF S/W.

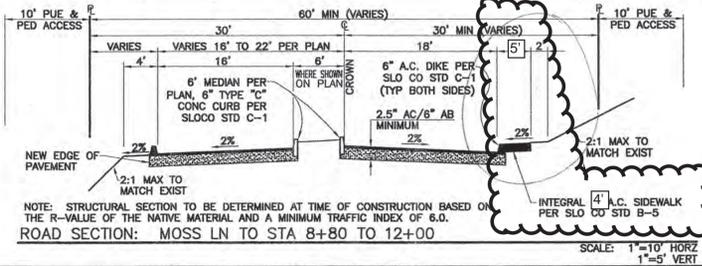
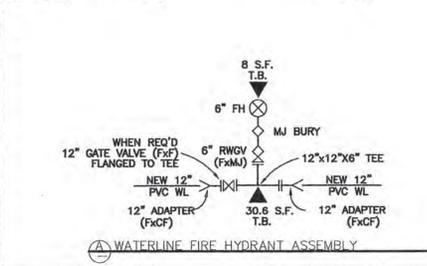
100' PAVEMENT TRANSITION RIGHT AC DIKE ONLY.

Install approx 35 If Caltrans Detail 27B edgeline stripe.

The contractor shall be responsible for coordinating all sewer work and inspections with NCS and notifying the Resident Engineer of such work and inspections. Encase sewer channel crossing with concrete in accordance with "Applied Engineering's", see Sheets 11A and 11B. All work must be done to the satisfaction of NCS.



CURVE	LENGTH	RADIUS	TANGENT	DELTA
C39	340.91	782.00	173.20	24°58'39"
C40	348.75	800.00	177.19	24°58'39"
C53	127.78	822.00	64.02	8°54'23"
C54	9.42	3.00	INFINITE	180°00'00"
C55	94.02	800.00	47.07	6°44'02"
C56	94.73	806.00	47.42	6°44'02"
C57	9.42	3.00	INFINITE	180°00'00"
C58	106.93	818.00	53.54	7°29'23"
C59	332.30	800.00	168.58	23°47'57"
C60	95.00	800.00	47.80	9°04'20"
C61	102.39	818.00	51.26	7°10'20"
C62	89.79	780.00	44.85	6°35'45"
C63	130.91	820.00	65.60	9°08'50"
C64	124.53	780.00	62.40	9°08'50"
C65	304.54	780.00	154.23	22°22'13"
C66	312.35	800.00	158.19	22°22'13"
C67	320.16	820.00	162.14	22°22'13"



Professional Engineer Seal: YOUNG LAI, No. C-60669, Exp. 12/31/2004, CIVIL, STATE OF CALIFORNIA.

SCALE: 1"=20'

REVISIONS

DATE	DESCRIPTION	APPROVED

CALILAND ENGINEERING INC. 1216 S. GARFIELD AVE. SUITE 200 ALHAMBRA, CA 91801 TEL: (626) 281-2288

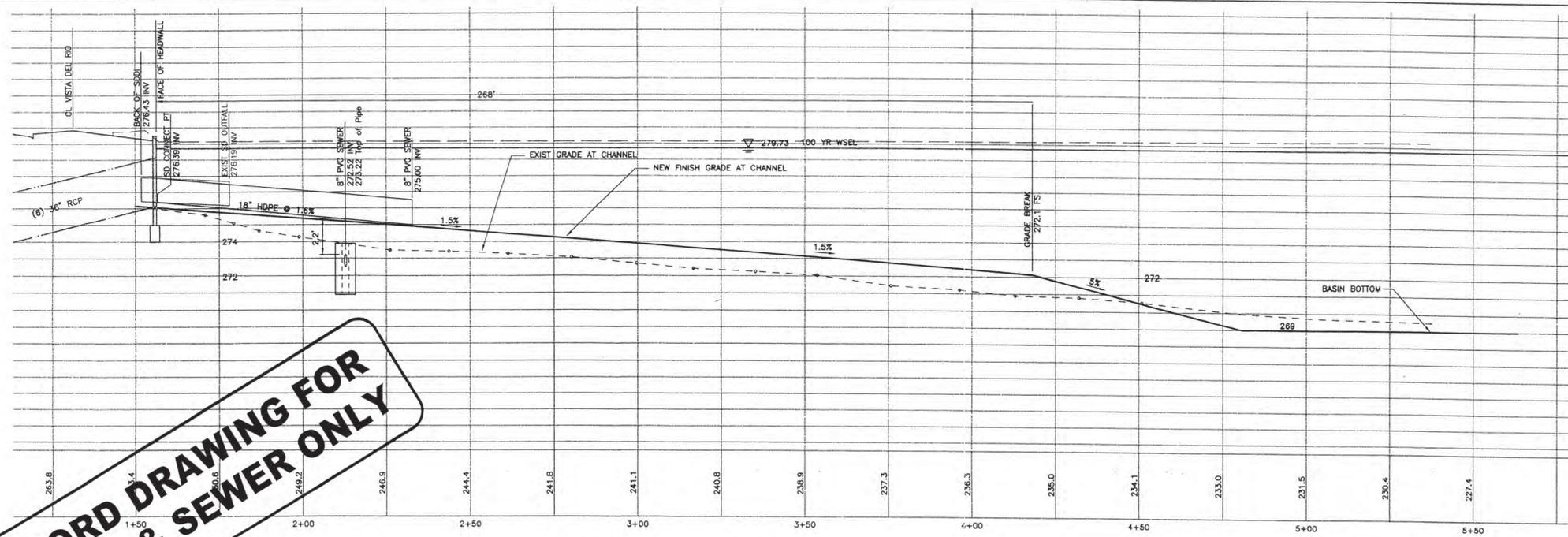
PUBLIC IMPROVEMENT PLANS FOR TRACTS 1802 & 1856, MARIA VISTA ESTATES VISTA DEL RIO: STA 9+50 TO 14+00

Design/Drawn: County Plan Check APPROVED FOR COUNTY REQUIREMENTS
 Date: 5.3.04 Development Services Engineer Date

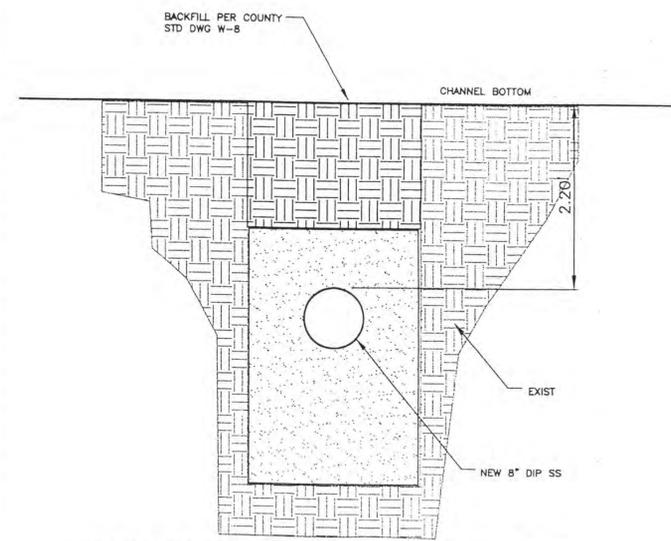
Job No. 03-142 County W.O. No. P11D37A & P11D511
 KEVIN Y LAI RCE 60565 Date 4-18-04

FILE DATA: California Coordinates N 554 E 1264 Sheet 11 of 57

RECORD DRAWING FOR WATER & SEWER ONLY

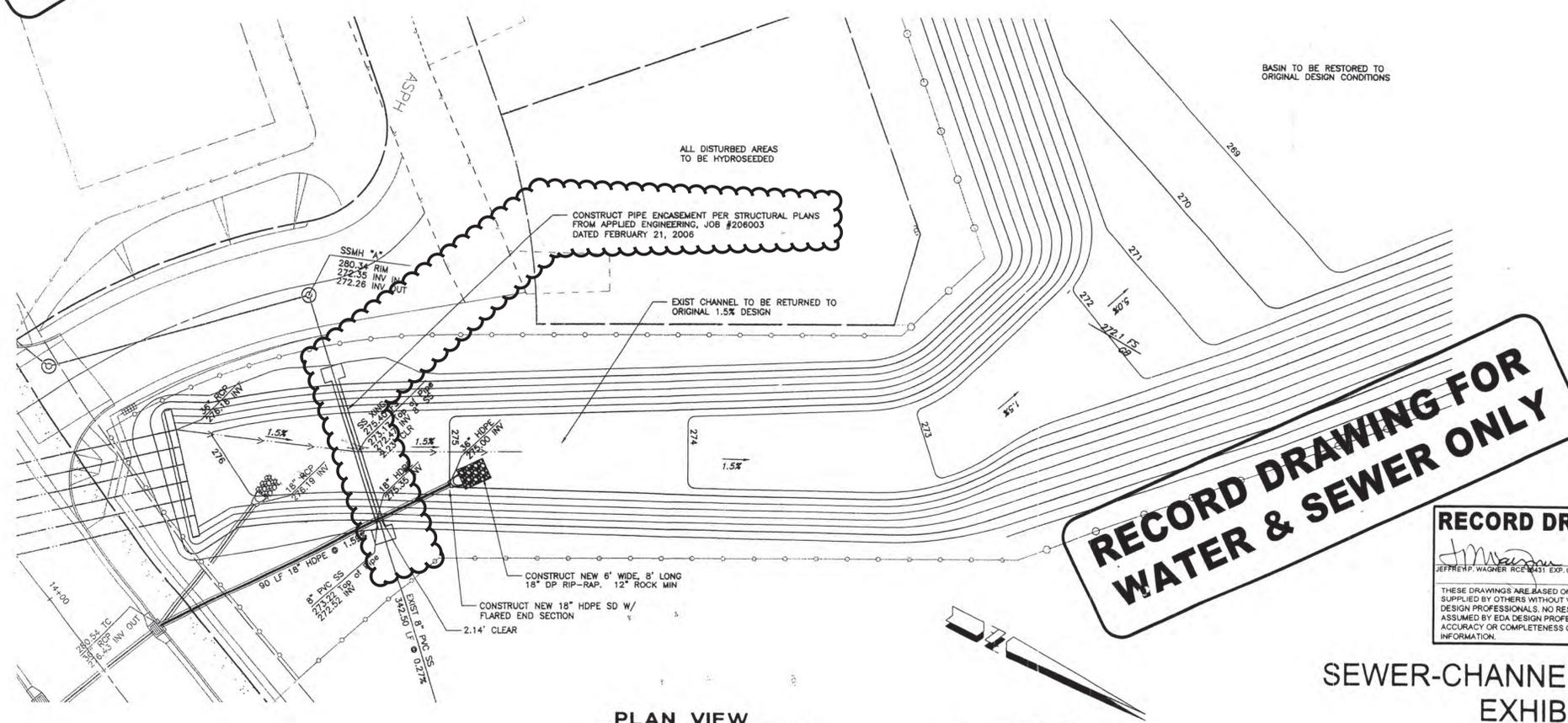


PROFILE IN CHANNEL



NOTE: CONSTRUCT PIPE ENCASEMENT PER APPLIED ENGINEERING DRAWINGS: JOB #206003, DATED FEBRUARY 21, 2006.

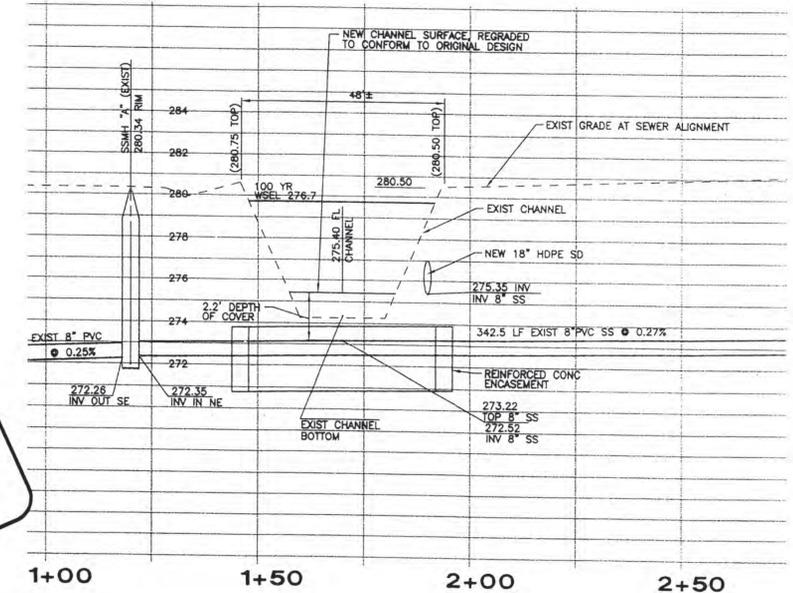
SECTION AT PIPE ENCASEMENT



PLAN VIEW



RECORD DRAWING FOR WATER & SEWER ONLY



SECTION AT SEWER CROSSING

RECORD DRAWING
Jeffrey P. Wagner 6-14-06
 JEFFREY P. WAGNER RCE #431 EXP. 03-08 DATE
 THESE DRAWINGS ARE BASED ON INFORMATION SUPPLIED BY OTHERS WITHOUT VERIFICATION BY EDA DESIGN PROFESSIONALS. NO RESPONSIBILITY IS ASSUMED BY EDA DESIGN PROFESSIONALS FOR THE ACCURACY OR COMPLETENESS OF THIS INFORMATION.

SEWER-CHANNEL CROSSING EXHIBIT
 FOR
 Maria Vista Estates

REGISTERED PROFESSIONAL ENGINEER
 JEFFREY P. WAGNER
 No. 26431
 Exp. 3/31/08
 4-24-06

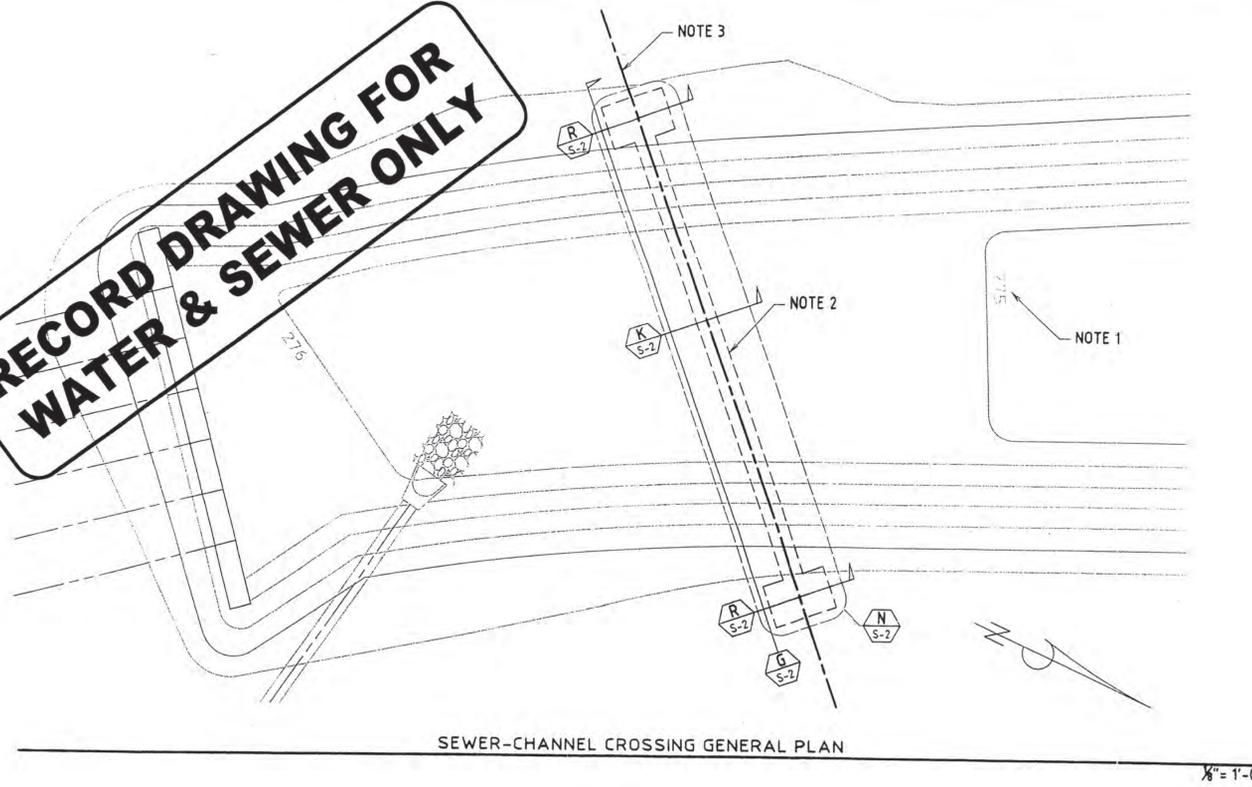
eda
 design professionals
 civil engineers • surveyors • land planners
 PO Box 1829
 San Luis Obispo, CA 93406-1829

CALLAND ENGINEERING INC.	
SEWER MODIFICATIONS	
Design/Drawn	APPROVED FOR NCSD REQUIREMENTS
Job No.	11A Date
California Coordinates	KEVIN Y LAI
N 554	E 1264

11A

I:\3-Conn\Docs\Sewer_Renovations\SS_Channel\eng\SS_Channel_swy_02-27-06.dwg 307006 11:43 AM gmg

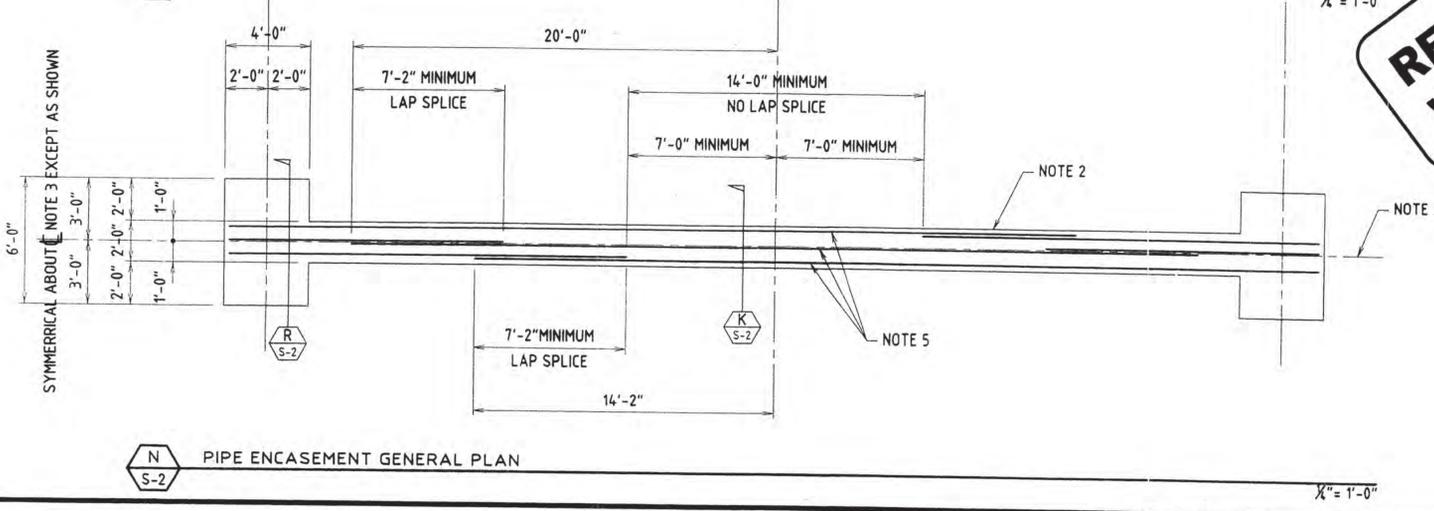
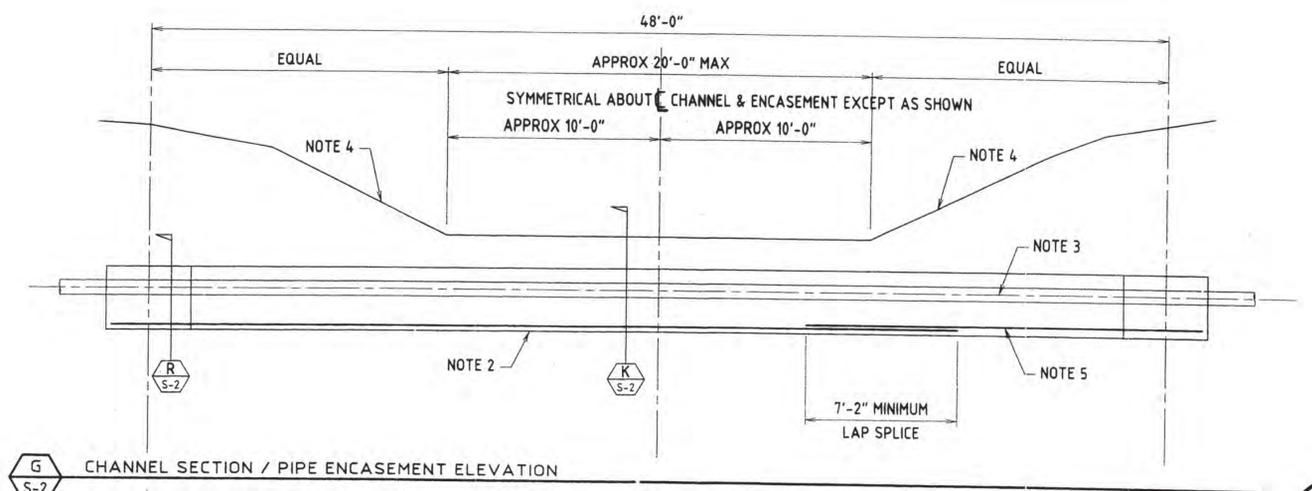
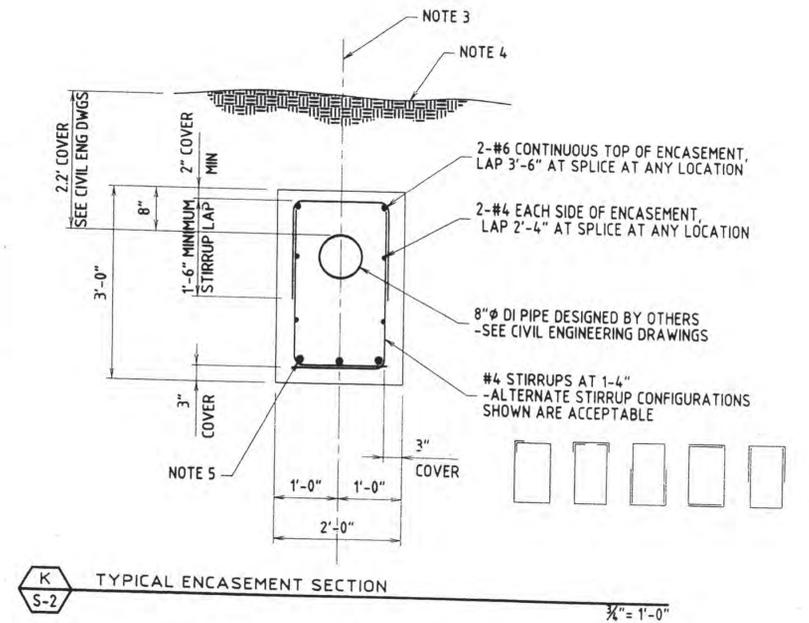
RECORD DRAWING FOR WATER & SEWER ONLY



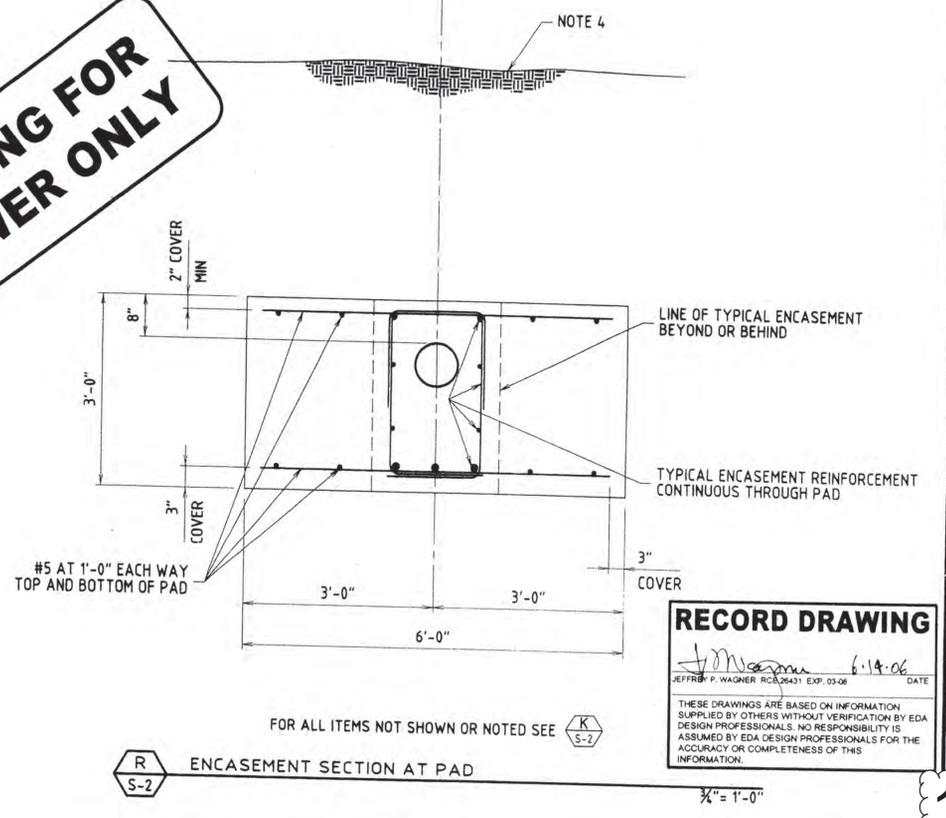
- REFERENCE NOTES**
1. TOPOGRAPHY SHOWN HEREON FOR REFERENCE ONLY -SEE CIVIL ENGINEERING DRAWINGS
 2. INDICATES OUTLINE OF 8"Ø SEWER PIPE CONCRETE ENCASEMENT
 3. INDICATES CENTERLINE OF 8"Ø DI PIPE ENCASED IN CONCRETE DESIGNED BY OTHERS -SEE CIVIL ENGINEERING DRAWINGS
 4. INDICATES LINE OF EXISTING CHANNEL -SEE CIVIL ENGINEERING DRAWINGS
 5. 3-#9 CONTINUOUS IN BOTTOM OF ENCASEMENT, LAP 7'-2" AT SPLICES -STAGGER SPLICES PER PIPE ENCASEMENT GENERAL PLAN

WARNING
SPECIAL INSPECTION IS REQUIRED FOR ALL CONCRETE ON THIS PROJECT
SEE GENERAL STRUCTURAL NOTE 1.04B ON SHEET S-1

WARNING
SUBMITTAL OF A MIX DESIGN IS REQUIRED FOR ALL CONCRETE ON THIS PROJECT
SEE GENERAL STRUCTURAL NOTE 3.06A ON SHEET S-1



RECORD DRAWING FOR WATER & SEWER ONLY



RECORD DRAWING
JEFFREY P. WAGNER RCE 00431 EXP. 03-08
DATE: 1-14-06
THESE DRAWINGS ARE BASED ON INFORMATION SUPPLIED BY OTHERS WITHOUT VERIFICATION BY EDA DESIGN PROFESSIONALS. NO RESPONSIBILITY IS ASSUMED BY EDA DESIGN PROFESSIONALS FOR THE ACCURACY OR COMPLETENESS OF THIS INFORMATION.

MARIA VISTA ESTATES SEWER-CHANNEL CROSSING
SEWER PIPE ENCASEMENT PLAN AND SECTIONS
FOR: TRINCON CONSTRUCTION GROUP
SANTA MARIA, CALIFORNIA 93458

APPLIED ENGINEERING
P.O. Box 4445
San Luis Obispo, California 93403
805/544-5684

BY: DMC
DATE: 21-FEB-06

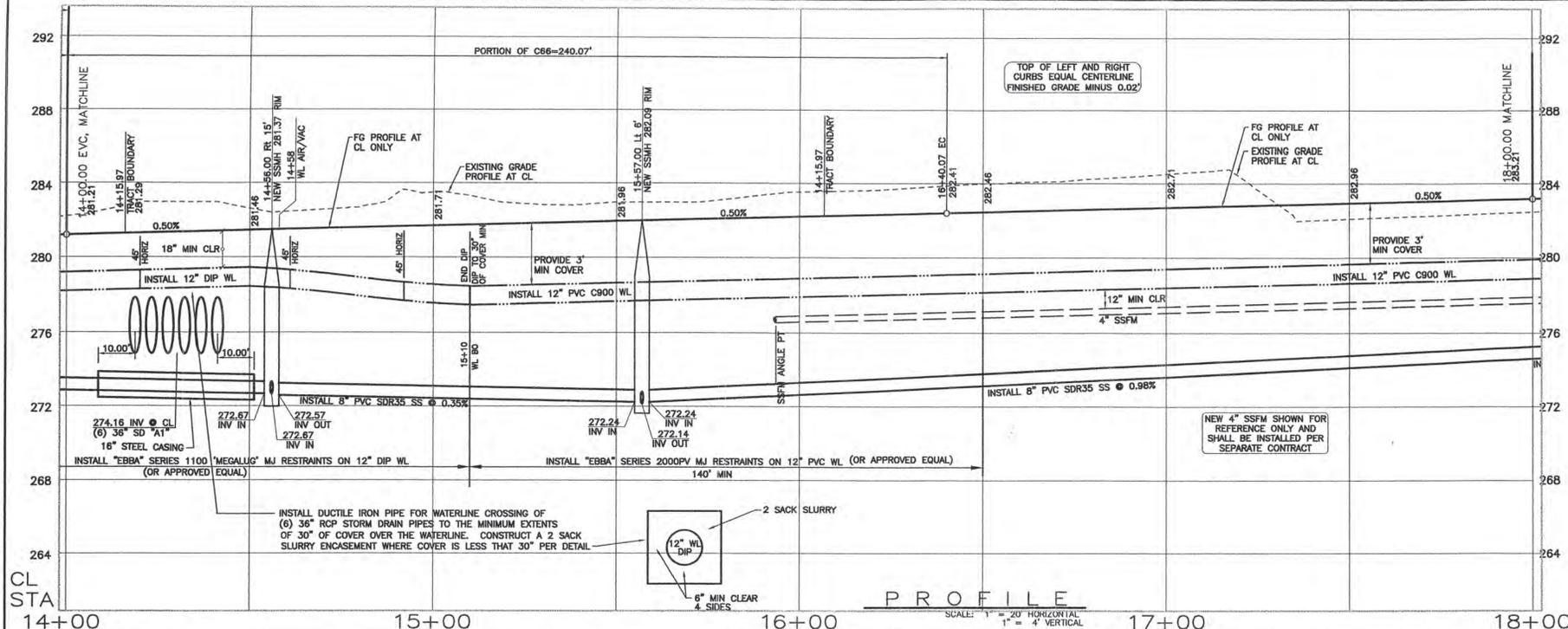
JOB: 206003

SHEET 11B

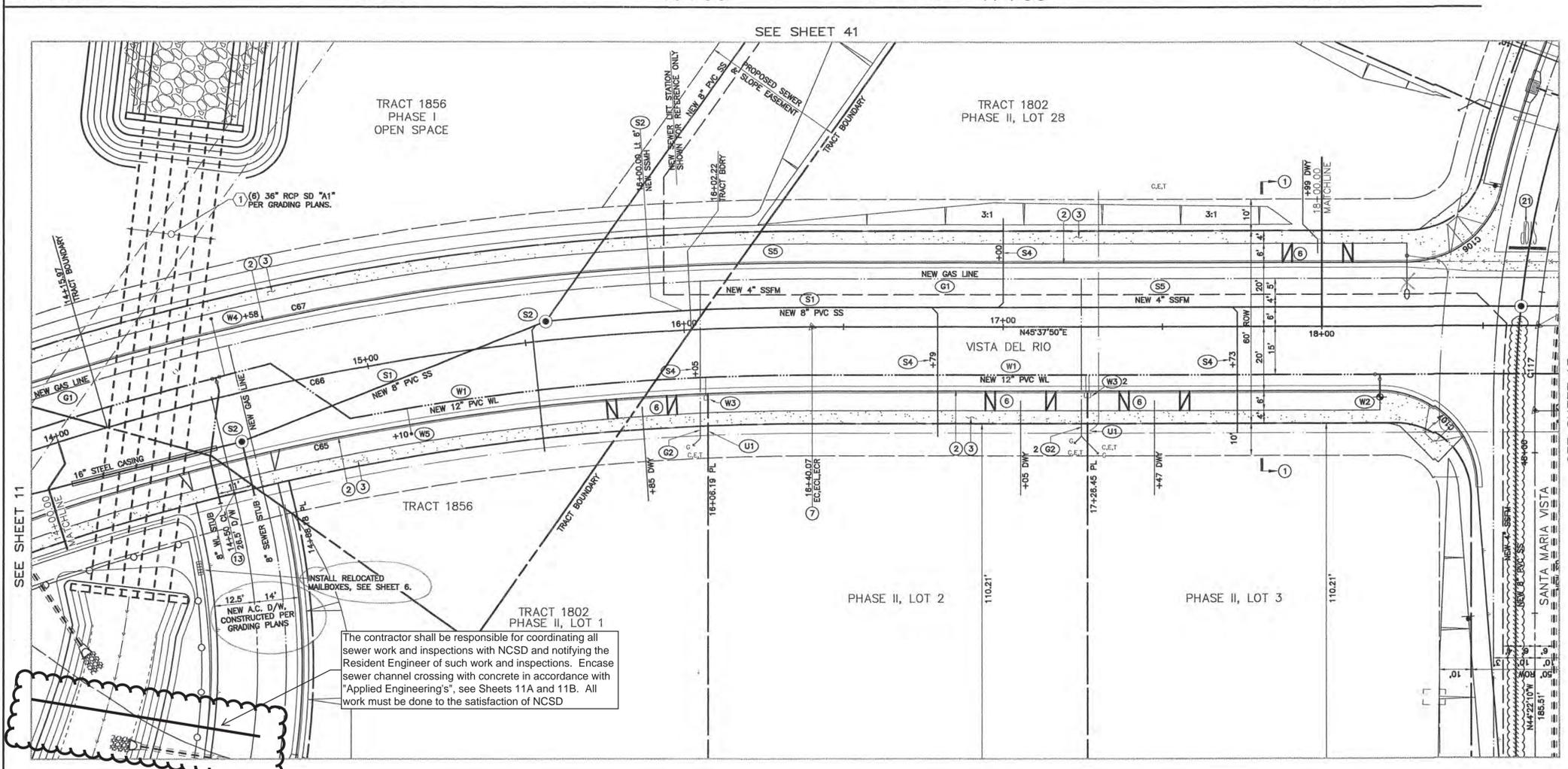


Contractor shall assume sole and complete responsibility for the job site conditions during the course of this project. The Engineer shall not be responsible for any conditions not shown on these drawings. The Contractor shall be responsible for obtaining all necessary permits and for the safety of all workers. The Contractor shall be responsible for the accuracy of all information provided to the Engineer. The Contractor shall be responsible for the performance of all work on this project except for that specifically noted as being the responsibility of the Engineer or Owner. These plans and specifications are prepared for the construction of the work shown hereon, and shall not be used in whole or in part for any other project without written authority of Applied Engineering. Copyright © 2006 Applied Engineering. All rights reserved. Copies of this drawing shall have this notice.

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- DEMOLITION & PROTECTION NOTES:**
- 1 SAWCUT TO COMPETENT A.C. AND/OR DEMOLISH AND REMOVE EXISTING A.C. PAVEMENT, LIMITS PER PLAN.
 - 2 REMOVE AND SALVAGE EXISTING "STOP" SIGN. RELOCATE AS SHOWN ON PLANS OR REPLACE AS DIRECTED BY THE ENGINEER.
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 - 4 DEMOLISH AND REMOVE EXISTING OVER SIDE DRAIN STRUCTURE INCLUDING PIPE, BROKEN CONCRETE, ETC.
 - 5 REMOVE EXISTING SIGN (TYPE NOTED PER PLAN).
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 - 5 CONSTRUCT CONCRETE CURB RAMP PER SAN LUIS OBISPO COUNTY STANDARD ABS, CASE "E".
 - 6 CONSTRUCT 16" WIDE CONCRETE DRIVEWAY PER SAN LUIS OBISPO COUNTY STANDARD B-3.
 - 7 CONSTRUCT STANDARD STREET MONUMENT PER DETAIL SAN LUIS OBISPO COUNTY STANDARD M-1.
 - 8 CONSTRUCT ROAD BARRICADE PER SAN LUIS OBISPO COUNTY STANDARD M-4, "L" PER PLAN.
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 - 15 CONSTRUCT 4" WIDE ASPHALT CONCRETE SIDEWALK PER TYPICAL ROAD SECTION, THIS SHEET.
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 - 18 CONSTRUCT NEW SPLIT RAIL (3 FOOT/2 RAIL) WOOD FENCE (THOLL FENCING, OR EQUAL) AT BACK OF TRAIL AND/OR 12" INSIDE TRACT BOUNDARY AS SHOWN ON PLAN.
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 - 21 "STOP" AND "LIMIT LINE" PER CALTRANS STANDARDS A240 & A24E.

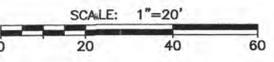


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 - 3 NEW STORM DRAIN CATCH BASIN (CALTRANS TYPE "GOD") PER APPROVED GRADING PLANS.
 - 4 NEW ROCK SLOPE PROTECTION PER 2002 CALTRANS SPECIFICATIONS, FACING CLASS, METHOD "B" PLACEMENT, ROCK FIELD SIZE PER PLAN (LENGTHxWIDTHxDEPTH).
 - 5 CONSTRUCT OVER SIDE DRAIN PER DETAIL "A", SHEET D3.
 - 6 NEW STORM DRAIN MANHOLE (APWA STD PLAN 320-0).
 - 7 CONSTRUCT NEW CONCRETE SIDEWALK UNDER DRAIN PER DETAIL "D", SHEET D3 (W=2").
 - 8 CONSTRUCT OVER SIDE DRAIN PER 2002 CALTRANS D67A, TYPE 1 w/ TYPE A DIKE, 12" SD, "L" PER PLAN.
 - 9 CONSTRUCT BROW DITCH PER DETAIL G3, SHEET D3.
- UTILITY CONSTRUCTION NOTES:**
- ALL WATER AND SEWER LINES AND APPURTENANCES SHALL BE INSTALLED AND TESTED PER THE LATEST EDITION OF THE NIPOMOD COMMUNITY SERVICES DISTRICT (NCS) STANDARDS AND SPECIFICATIONS. THE INSTALLATION OF ALL GAS AND WIRE (CABLE, TELEPHONE, ELECTRIC, ETC.) UTILITIES SHALL BE COORDINATED WITH THE RESPECTIVE UTILITY COMPANY.
- W1 CONSTRUCT PVC C900 WATERLINE PER NCS STANDARD W-8 AND SPECIFICATIONS (SIZE PER PLAN).
 - W2 CONSTRUCT FIRE HYDRANT ASSEMBLY PER NCS STANDARD W-1.
 - W3 CONSTRUCT WATER SERVICE CONNECTION PER NCS STANDARD W-4.
 - W4 CONSTRUCT WATERLINE 1" AIR & VACUUM RELIEF ASSEMBLY PER NCS STANDARD W-5.
 - W5 CONSTRUCT WATERLINE BLOW-OFF ASSEMBLY PER NCS STANDARD W-7.
 - W6 CONSTRUCT WATERLINE VERTICAL BEND PER DETAIL "E", SHEET D3.
 - W7 CONSTRUCT PRESSURE RELIEF VALVE ASSEMBLY PER DETAIL F, SHEET D3.
 - S1 CONSTRUCT NEW PVC SDR35 SEWER LINE PER NCS STANDARD W-8 AND SPECIFICATIONS (SIZE PER PLAN).
 - S2 CONSTRUCT NEW SEWER MANHOLE PER NCS STANDARDS S-1 & S-2.
 - S3 CONSTRUCT NEW SEWER CLEAN OUT PER NCS STANDARD S-4.
 - S4 CONSTRUCT NEW 4" PVC SDR35 SEWER LATERAL PER NCS STANDARD S-5.
 - S5 NEW 4" SANITARY SEWER FORCE MAIN (SHOWN FOR REFERENCE ONLY, TO BE CONSTRUCTED UNDER SEPARATE DOCUMENT).
 - U1 INSTALL ELECTRIC, TELEPHONE, & CATV UTILITY PULL AND SPLICE BOXES PER RESPECTIVE UTILITY COMPANY STANDARDS AND SPECIFICATIONS.
 - U2 INSTALL NEW STREET LIGHT STANDARD PER DETAIL "B", SHEET D3.
 - G1 COORDINATE NEW GAS LINE TRENCHING WITH THE GAS COMPANY PRIOR TO CONSTRUCTION.
 - G2 CONSTRUCT GAS LINE SERVICE LATERAL, STUB AND CAP 3" INSIDE PROPERTY LINE.

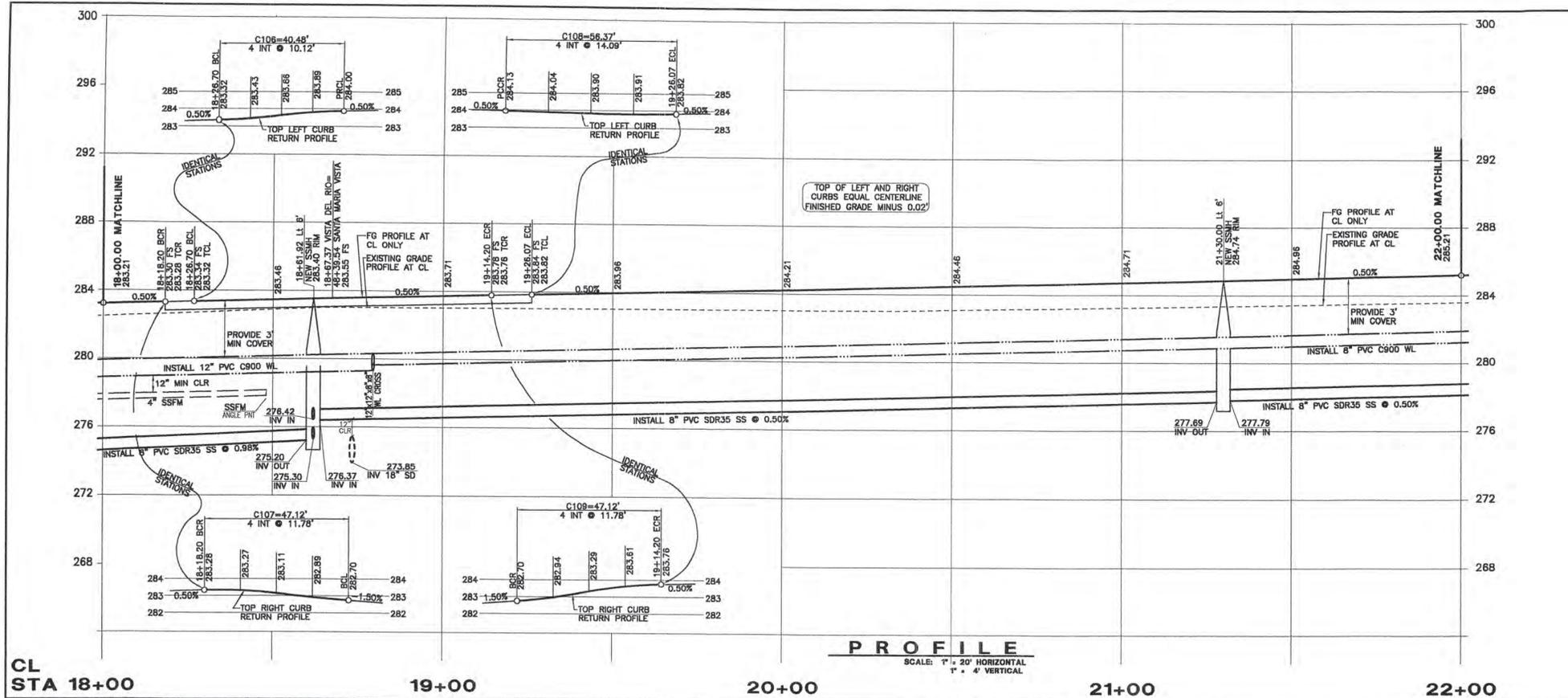


CURVE TABLE

CURVE	LENGTH	RADIUS	TANGENT	DELTA
C65	304.54	780.00	154.23	22°22'13"
C66	312.35	800.00	158.19	22°22'13"
C67	320.16	820.00	162.14	22°22'13"



REVISIONS DATE DESCRIPTION APPROVED		CALILAND ENGINEERING INC. PUBLIC IMPROVEMENT PLANS FOR TRACTS 1802 & 1856, MARIA VISTA ESTATES VISTA DEL RIO: STA 14+00 TO 18+00	
Design/Drawn Job No. 03-142		APPROVED FOR COUNTY REQUIREMENTS Development Services Engineer Date 8-9-06	
File Data: IMPROVEMENT PLANS/22518P06.DWG		California Coordinates N 554 E 1264	
		Sheet 12 of 57	



CL STA 18+00 19+00 20+00 21+00 22+00

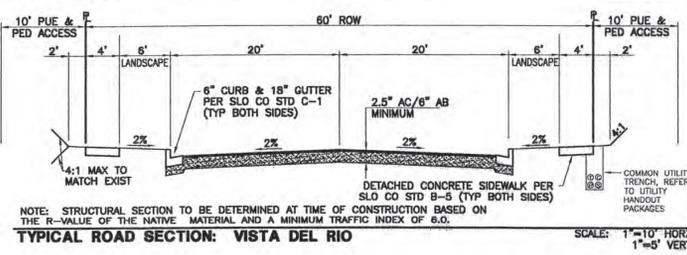
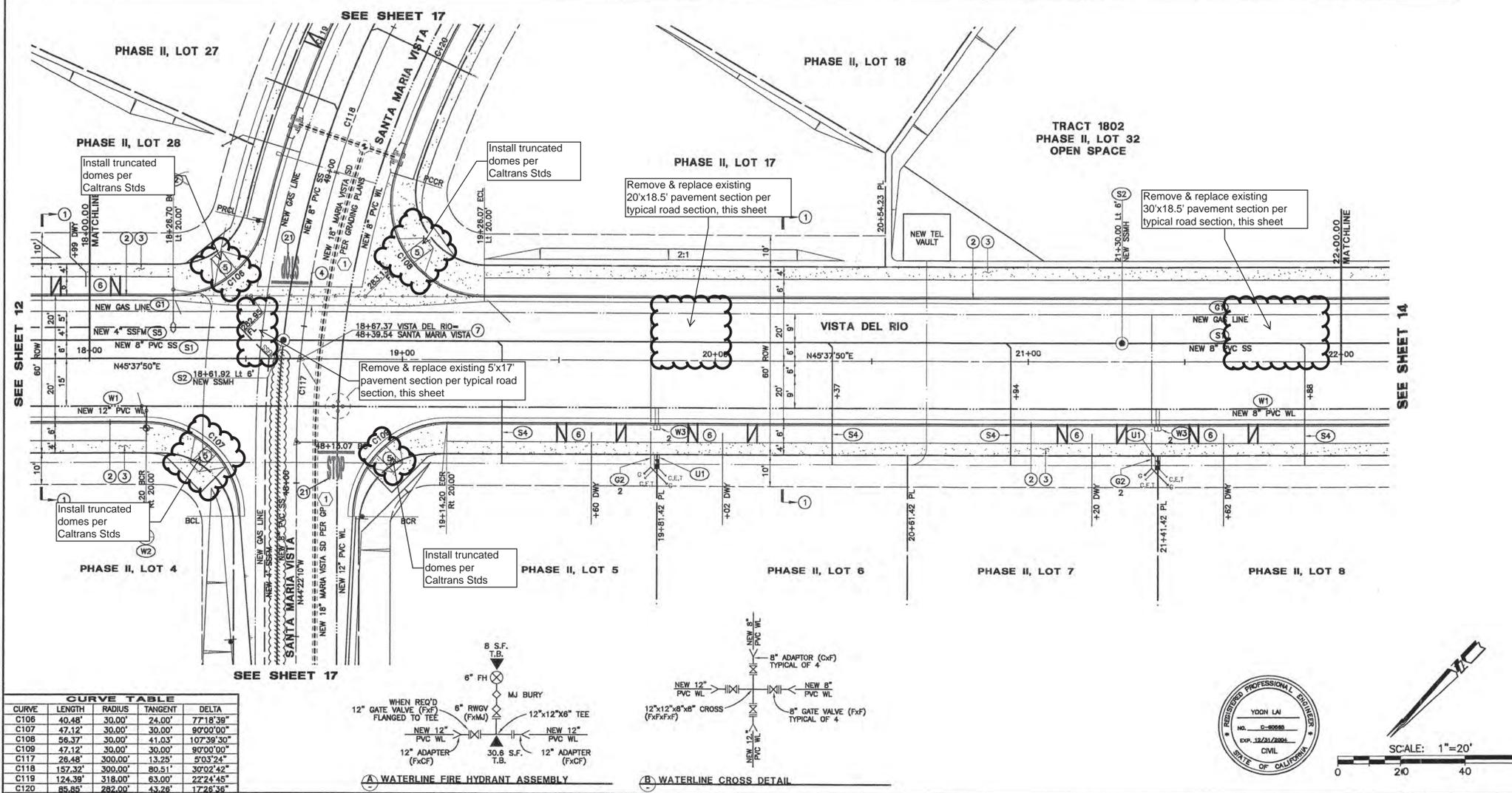
PROFILE
SCALE: 1" = 20' HORIZONTAL
1" = 4' VERTICAL

- DEMOLITION & PROTECTION NOTES:**
- 1 SAWCUT TO COMPETENT A.C. AND/OR DEMOLISH AND REMOVE EXISTING A.C. PAVEMENT, LIMITS PER PLAN.
 - 2 REMOVE AND SALVAGE EXISTING "STOP" SIGN. RELOCATE AS SHOWN ON PLANS OR REPLACE AS DIRECTED BY THE ENGINEER.
 - 3 DEMOLISH AND REMOVE EXISTING FENCE. SEE GRADING PLANS.
 - 4 DEMOLISH AND REMOVE EXISTING OVER SIDE DRAIN STRUCTURE INCLUDING PIPE, BROKEN CONCRETE, ETC.
 - 5 REMOVE EXISTING SIGN (TYPE NOTED PER PLAN).
 - 6 RELOCATE EXISTING SIGN BEHIND NEW CURB FACE (TYPE NOTED ON PLAN).
 - 7 EXISTING TREE TO BE REMOVED (SIZE AND TYPE PER PLAN), SEE GRADING PLANS.

- ROAD CONSTRUCTION NOTES:**
- 1 CONSTRUCT ASPHALT CONCRETE PAVEMENT ROAD SECTION PER STANDARD SECTION THIS SHEET.
 - 2 CONSTRUCT 6" CONCRETE CURB & 18" CONCRETE GUTTER PER SAN LUIS OBISPO COUNTY STANDARD C-1.
 - 3 CONSTRUCT 4" WIDE DETACHED CONCRETE SIDEWALK PER SAN LUIS OBISPO COUNTY STANDARD B-5.
 - 4 CONSTRUCT CONCRETE CROSS GUTTER AND SPANDREL PER SAN LUIS OBISPO COUNTY STANDARD C-2.
 - 5 CONSTRUCT CONCRETE CURB RAMP PER SAN LUIS OBISPO COUNTY STANDARD ABB, CASE "E".
 - 6 CONSTRUCT 16" WIDE CONCRETE DRIVEWAY PER SAN LUIS OBISPO COUNTY STANDARD B-3.
 - 7 CONSTRUCT STANDARD STREET MONUMENT PER DETAIL SAN LUIS OBISPO COUNTY STANDARD M-1.
 - 8 CONSTRUCT WOOD ROAD BARRICADE PER SAN LUIS OBISPO COUNTY STANDARD M-4, "L" PER PLAN.
 - 9 CONSTRUCT COMBINATION "STOP" SIGN AND ROAD NAME SIGN PER SAN LUIS OBISPO COUNTY STANDARD M-6. ROAD NAME SIGN SHALL BE WHITE LETTERS ON GREEN BACKGROUND AND CONFORM TO COUNTY STANDARDS.
 - 10 CONSTRUCT PAVEMENT TRANSITION, LENGTH PER PLAN.
 - 11 CONSTRUCT CONCRETE CURB RAMP PER SAN LUIS OBISPO COUNTY STANDARD ABB, CASE "D".
 - 12 CONSTRUCT "STOP" SIGN ONLY PER SAN LUIS OBISPO COUNTY STANDARD M-6.
 - 13 CONSTRUCT CONCRETE DRIVEWAY APRON PER SAN LUIS OBISPO COUNTY STANDARD B-3, WIDTH PER PLAN.
 - 14 CONSTRUCT 6" ASPHALT CONCRETE DIKE PER SAN LUIS OBISPO COUNTY STANDARD C-1 (2" OR 4" AC DIKE AT GUARD RAIL LOCATIONS ON PLAN AND PER CALTRANS STD DWG A87, TYPE "T").
 - 15 CONSTRUCT 4" WIDE ASPHALT CONCRETE SIDEWALK PER TYPICAL ROAD SECTION, THIS SHEET.
 - 16 CONSTRUCT 16" WIDE ASPHALT CONCRETE DRIVEWAY PER SAN LUIS OBISPO COUNTY STANDARD B-4, MODIFIED WITH 4" WIDE ASPHALT CONCRETE SIDEWALK AT BACK OF APPROACH.
 - 17 CONSTRUCT TEMPORARY WOOD RETAINING WALL PER DETAIL "C", SHEET D3.
 - 18 CONSTRUCT NEW SPLIT RAIL (3 FOOT/2 RAIL) WOOD FENCE (THOLL FENCING, OR EQUAL) AT BACK OF TRAIL AND/OR 12" INSIDE TRACT BOUNDARY AS SHOWN ON PLAN.
 - 19 CONSTRUCT NEW 6" CONCRETE CURB PER SAN LUIS OBISPO COUNTY STANDARD C-1, TYPE "C".
 - 20 CONSTRUCT NEW METAL BEAM GUARD RAIL WITH 150x200mm WOOD POST & BLOCK, NARROW ROADWAY INSTALLATION, AND TYPE ET TERMINAL SYSTEM END TREATMENT (A774) PER CALTRANS STANDARDS A77-SERIES AND SPECIFICATIONS (NOTE: 2" OR 4" TALL AC DIKE REQUIRED WHERE GUARD RAILS ARE SPECIFIED ON PLANS-SEE A77E).
 - 21 "STOP" AND "LIMIT LINE" PER CALTRANS STANDARDS A24D & A24E.

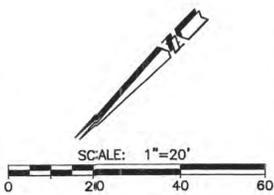
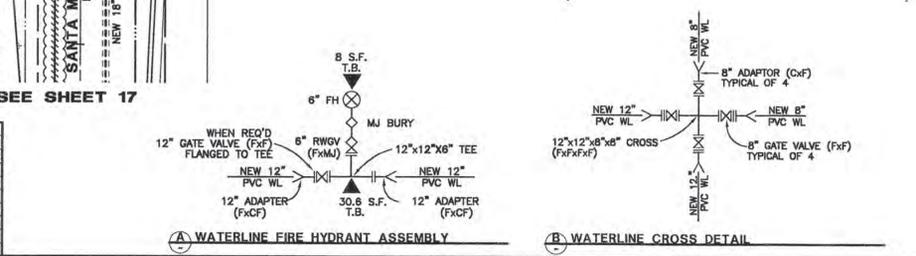
- DRAINAGE CONSTRUCTION NOTES:**
- REFER TO APPROVED GRADING PLANS AND GRADING PLAN ADDENDUM SHEETS FOR STORM DRAINAGE CONSTRUCTION INFORMATION. STORM DRAINAGE INFORMATION PRESENTED HEREIN IS FOR REFERENCE ONLY.
- 1 NEW RCP CLASS 3 STORM DRAIN PER APPROVED GRADING PLANS, SIZE PER PLAN.
 - 2 NEW STORM DRAIN CATCH BASIN (SAN LUIS OBISPO COUNTY STANDARD C-3) PER APPROVED GRADING PLANS.
 - 3 NEW STORM DRAIN CATCH BASIN (CALTRANS TYPE "GDD") PER APPROVED GRADING PLANS.
 - 4 NEW ROCK SLOPE PROTECTION PER 2002 CALTRANS SPECIFICATIONS, FACING CLASS, METHOD "B" PLACEMENT, ROCK FIELD SIZE PER PLAN (LENGTHxWIDTHxDEPTH).
 - 5 CONSTRUCT OVER SIDE DRAIN PER DETAIL "A", SHEET D3.
 - 6 NEW STORM DRAIN MANHOLE (APWA STD PLAN 320-0).
 - 7 CONSTRUCT NEW CONCRETE SIDEWALK UNDER DRAIN PER DETAIL "D", SHEET D3 (W=2).
 - 8 CONSTRUCT OVER SIDE DRAIN PER 2002 CALTRANS D87A, TYPE 1 w/ TYPE A DIKE, 12" SD, "L" PER PLAN.
 - 9 CONSTRUCT BROW DITCH PER DETAIL G3, SHEET D3.

- UTILITY CONSTRUCTION NOTES:**
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CURVE TABLE

CURVE	LENGTH	RADIUS	TANGENT	DELTA
C106	40.48'	30.00'	24.00'	77°18'39"
C107	47.12'	30.00'	30.00'	90°00'00"
C108	56.37'	30.00'	41.03'	102°39'50"
C109	47.12'	30.00'	30.00'	90°00'00"
C117	26.48'	300.00'	13.25'	5°03'24"
C118	157.32'	300.00'	80.51'	30°02'42"
C119	124.39'	318.00'	63.00'	22°24'45"
C120	85.85'	282.00'	43.26'	17°28'36"



REVISIONS		DATE		DESCRIPTION		APPROVED	

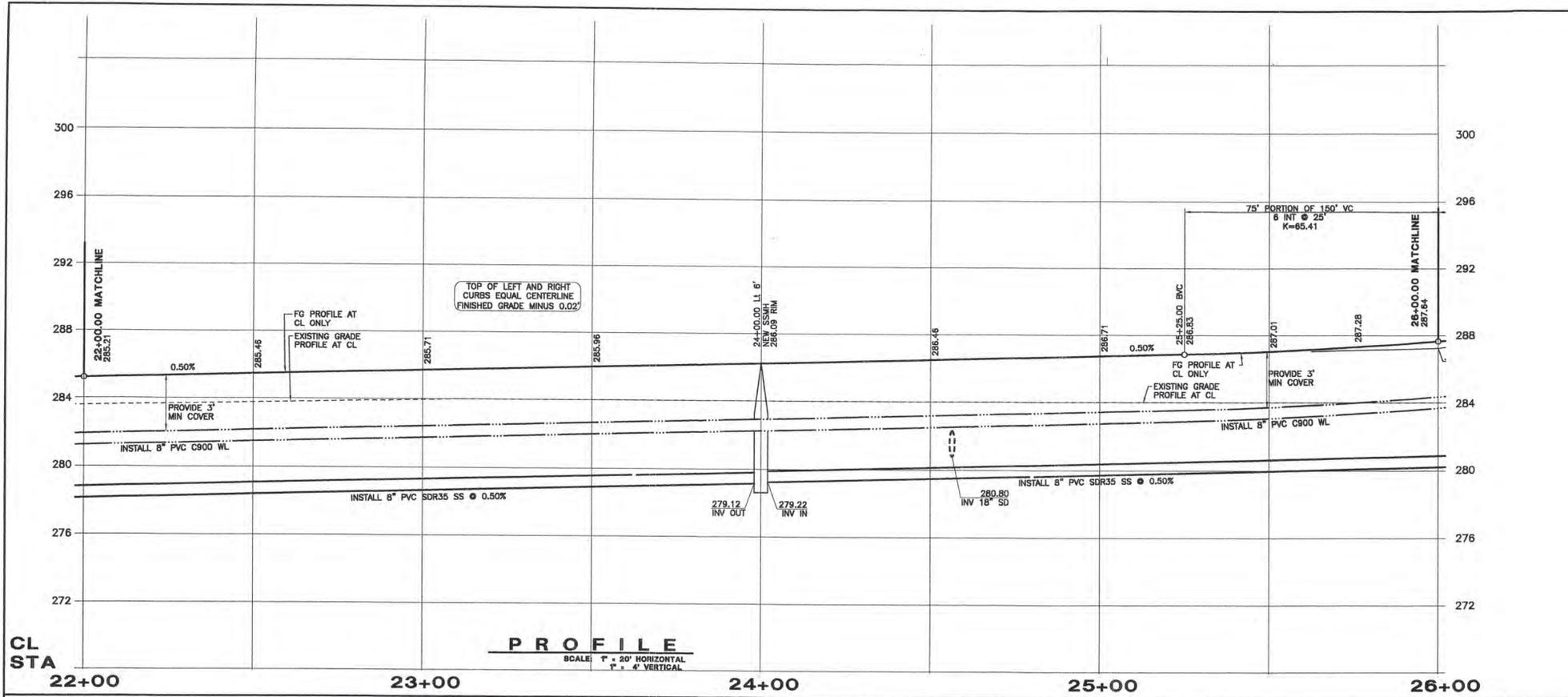
CALILAND ENGINEERING INC. 1210 S. GARFIELD AVE., SUITE 200 ALHAMBRA, CA 91801 TEL: (626) 281-2268

PUBLIC IMPROVEMENT PLANS FOR TRACTS 1802 & 1856, MARIA VISTA ESTATES VISTA DEL RIO: STA 18+00 TO 22+00

Design/Draw: County Plan Check: APPROVED FOR COUNTY REQUIREMENTS

Job No. 03-142: County W.O. No. P11D374 & P11D511: Development Services Engineer: KEVIN Y LAI: Date: 6-19-06

California Coordinates: N 554 E 1264 Sheet 13 of 57

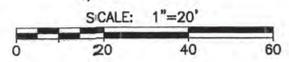
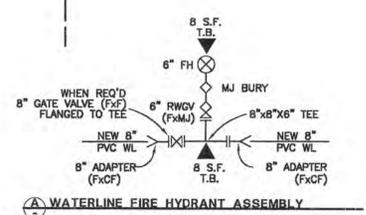
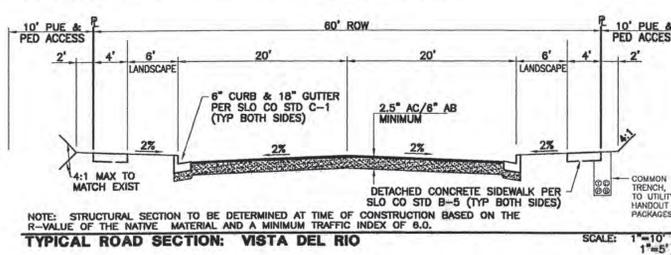
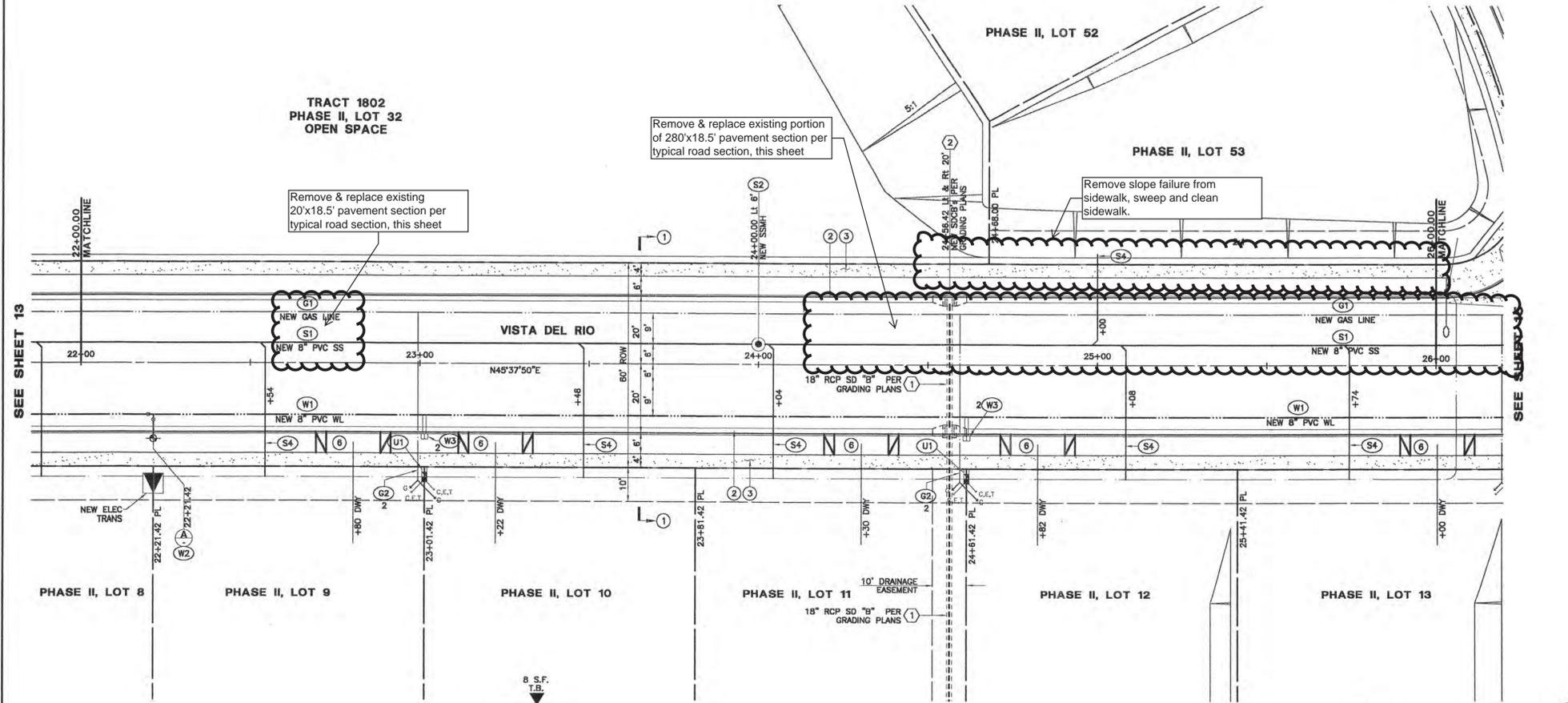


- DEMOLITION & PROTECTION NOTES:**
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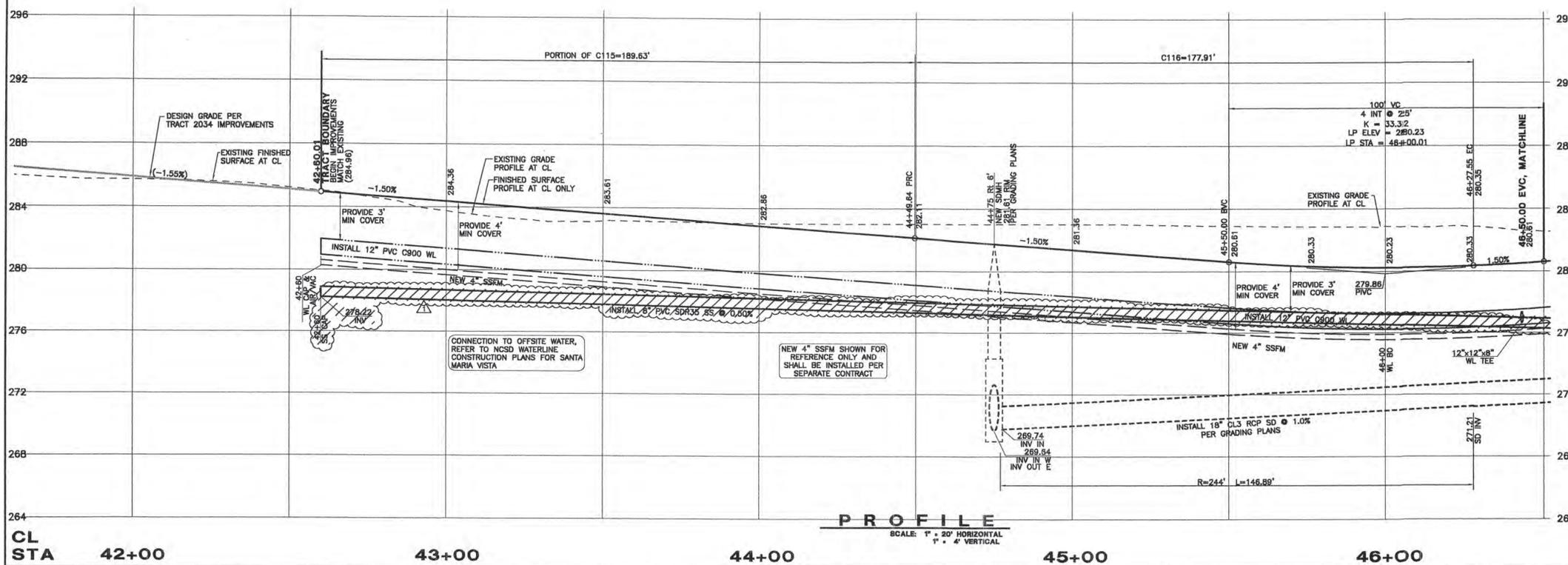
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REVISIONS		CALILAND ENGINEERING INC.	
DATE	DESCRIPTION	APPROVED	

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PUBLIC IMPROVEMENT PLANS FOR TRACTS 1802 & 1856, MARIA VISTA ESTATES			
VISTA DEL RIO: STA 22+00 TO 26+00			
Design/Drawn	County Plan Check	APPROVED FOR COUNTY REQUIREMENTS	
	O.S.		
	5.3.04		
Job No.	County W.O. No.	Development Services Engineer Date	
03-142	P11D374 & P11D511		
FILE DATA:	California Coordinates	RCE 00668	Sheet
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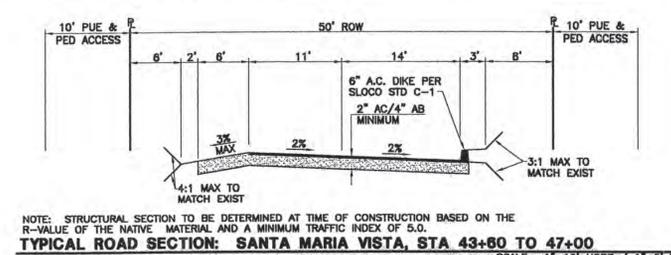
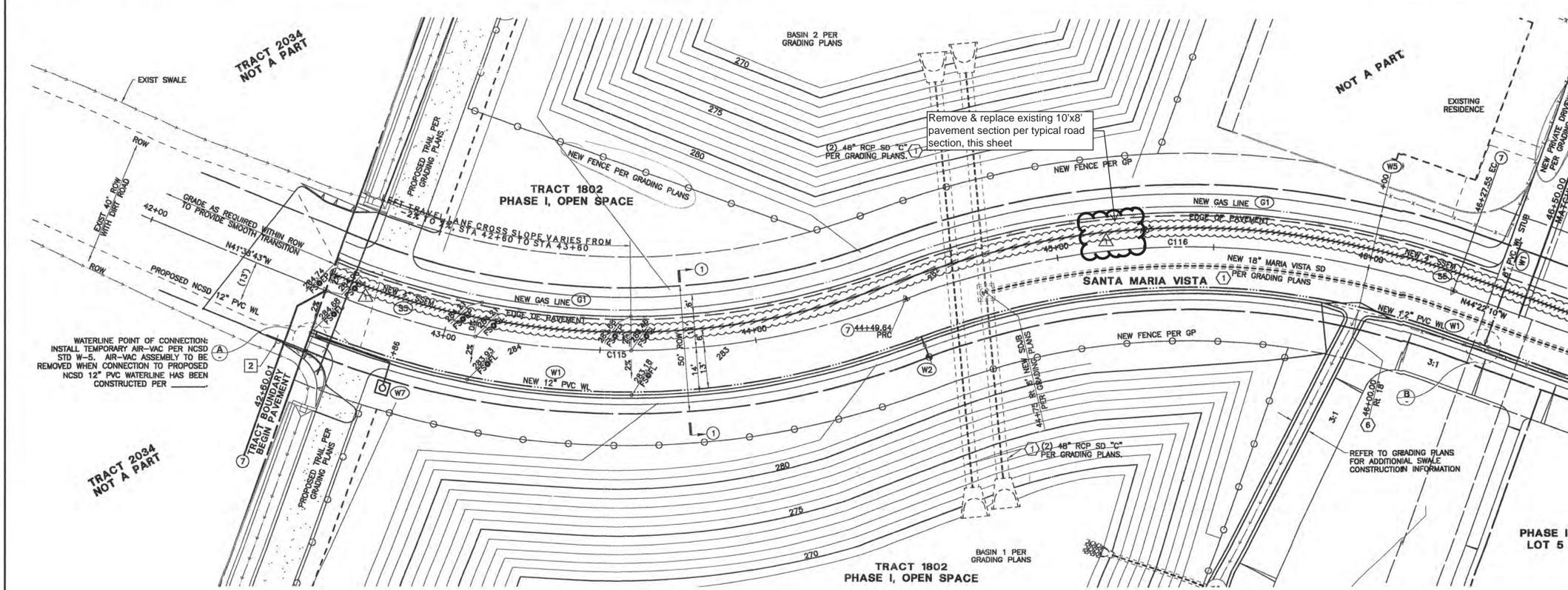


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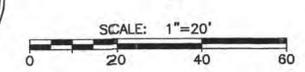
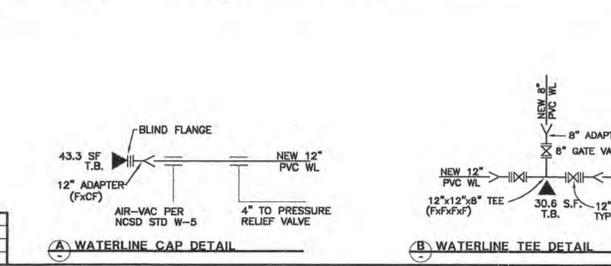
- DRAINAGE CONSTRUCTION NOTES:**
- REFER TO APPROVED GRADING PLANS AND GRADING PLAN ADDENDUM SHEETS FOR STORM DRAINAGE CONSTRUCTION INFORMATION. STORM DRAINAGE INFORMATION PRESENTED HEREIN IS FOR REFERENCE ONLY.
- 1 NEW RCP CLASS 3 STORM DRAIN PER APPROVED GRADING PLANS, SIZE PER PLAN.
 - 2 NEW STORM DRAIN CATCH BASIN (SAN LUIS OBISPO COUNTY STANDARD C-3) PER APPROVED GRADING PLANS.
 - 3 NEW STORM DRAIN CATCH BASIN (CALTRANS TYPE "600") PER APPROVED GRADING PLANS.
 - 4 NEW ROCK SLOPE PROTECTION PER 2002 CALTRANS SPECIFICATIONS, FACING CLASS, METHOD "B" PLACEMENT, ROCK FIELD SIZE PER PLAN (LENGTH/WIDTH/DEPTH).
 - 5 CONSTRUCT OVER SIDE DRAIN PER DETAIL "A", SHEET D3.
 - 6 NEW STORM DRAIN MANHOLE (APWA STD PLAN 320-0).
 - 7 CONSTRUCT NEW CONCRETE SIDEWALK UNDER DRAIN PER DETAIL "D", SHEET D3 (W=2').
 - 8 CONSTRUCT OVER SIDE DRAIN PER 2002 CALTRANS D87A, TYPE 1 W/ TYPE A DIKE, 12" SD, "L" PER PLAN.
 - 9 CONSTRUCT BROW DITCH PER DETAIL G3, SHEET D3.

- UTILITY CONSTRUCTION NOTES:**
- ALL WATER AND SEWER LINES AND APPURTENANCES SHALL BE INSTALLED AND TESTED PER THE LATEST EDITION OF THE MPMO COMMUNITY SERVICES DISTRICT (NCS) STANDARDS AND SPECIFICATIONS. THE INSTALLATION OF ALL GAS AND WIRE (CABLE, TELEPHONE, ELECTRIC, ETC.) UTILITIES SHALL BE COORDINATED WITH THE RESPECTIVE UTILITY COMPANY.
- W1 CONSTRUCT PVC C900 WATERLINE PER NCS STANDARD W-8 AND SPECIFICATIONS (SIZE PER PLAN).
 - W2 CONSTRUCT FIRE HYDRANT ASSEMBLY PER NCS STANDARD W-1.
 - W3 CONSTRUCT WATER SERVICE CONNECTION PER NCS STANDARD W-4.
 - W4 CONSTRUCT WATERLINE 1" AIR & VACUUM RELIEF ASSEMBLY PER NCS STANDARD W-5.
 - W5 CONSTRUCT WATERLINE BLOW-OFF ASSEMBLY PER NCS STANDARD W-7.
 - W6 CONSTRUCT WATERLINE VERTICAL BEND PER DETAIL "E", SHEET D3.
 - W7 CONSTRUCT PRESSURE RELIEF VALVE ASSEMBLY PER DETAIL F, SHEET D3.
 - S1 CONSTRUCT NEW PVC SDR35 SEWER LINE PER NCS STANDARD W-8 AND SPECIFICATIONS (SIZE PER PLAN).
 - S2 CONSTRUCT NEW SEWER MANHOLE PER NCS STANDARDS S-1 & S-2.
 - S3 CONSTRUCT NEW SEWER CLEAN OUT PER NCS STANDARD S-4.
 - S4 CONSTRUCT NEW 4" PVC SDR35 SEWER LATERAL PER NCS STANDARD S-5.
 - S5 NEW 4" SANITARY SEWER FORCE MAIN (SHOWN FOR REFERENCE ONLY, TO BE CONSTRUCTED UNDER SEPARATE DOCUMENT).
 - U1 INSTALL ELECTRIC, TELEPHONE, & CATV UTILITY PULL AND SPLICE BOXES PER RESPECTIVE UTILITY COMPANY STANDARDS AND SPECIFICATIONS.
 - U2 INSTALL NEW STREET LIGHT STANDARD PER DETAIL "B", SHEET D3.
 - G1 COORDINATE NEW GAS LINE TRENCHING WITH THE GAS COMPANY PRIOR TO CONSTRUCTION.
 - G2 CONSTRUCT GAS LINE SERVICE LATERAL, STUB AND CAP 3" INSIDE PROPERTY LINE.



CURVE TABLE

CURVE	LENGTH	RADIUS	TANGENT	DELTA
C115	189.63'	250.00'	99.64'	43°27'39"
C116	177.91'	250.00'	92.91'	42°48'27"



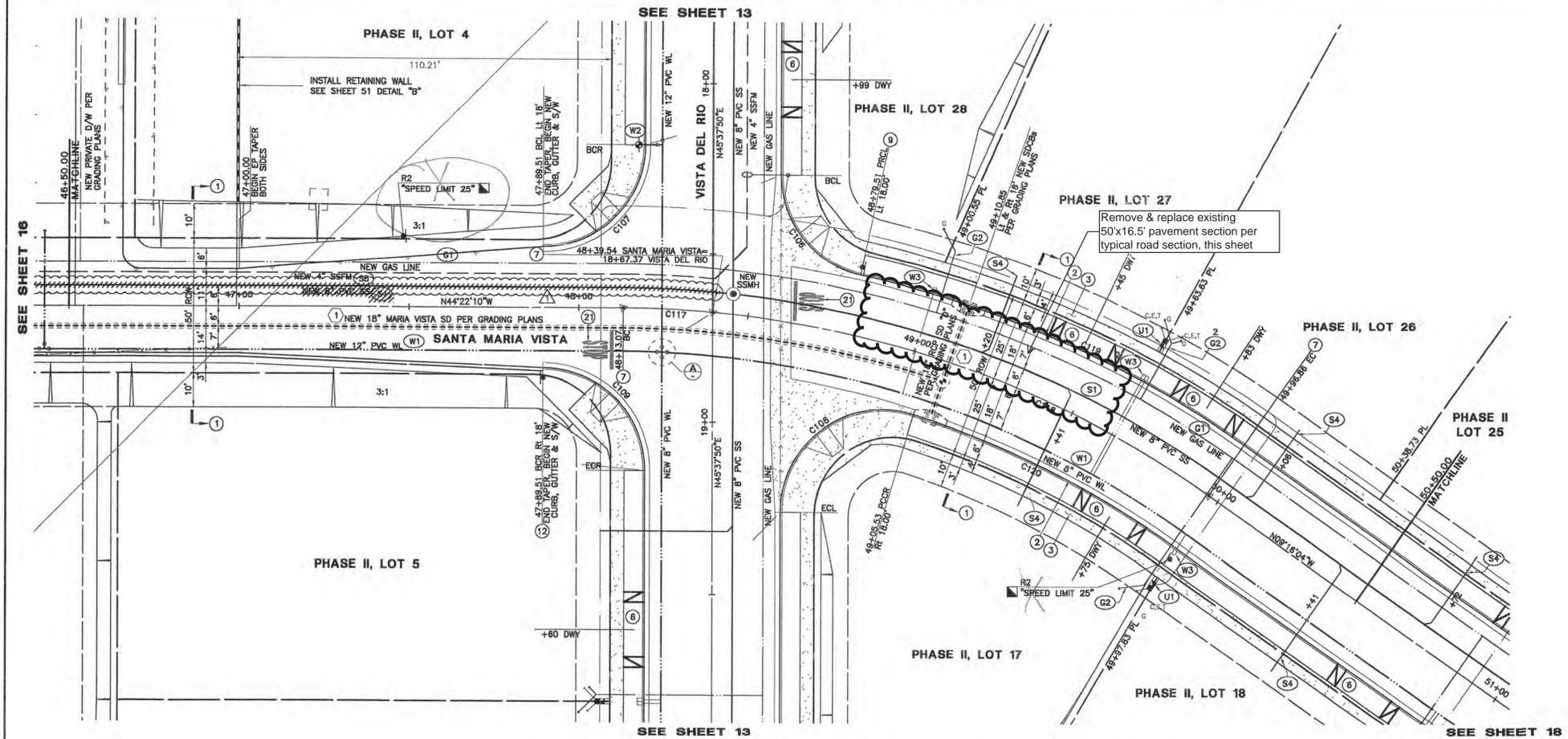
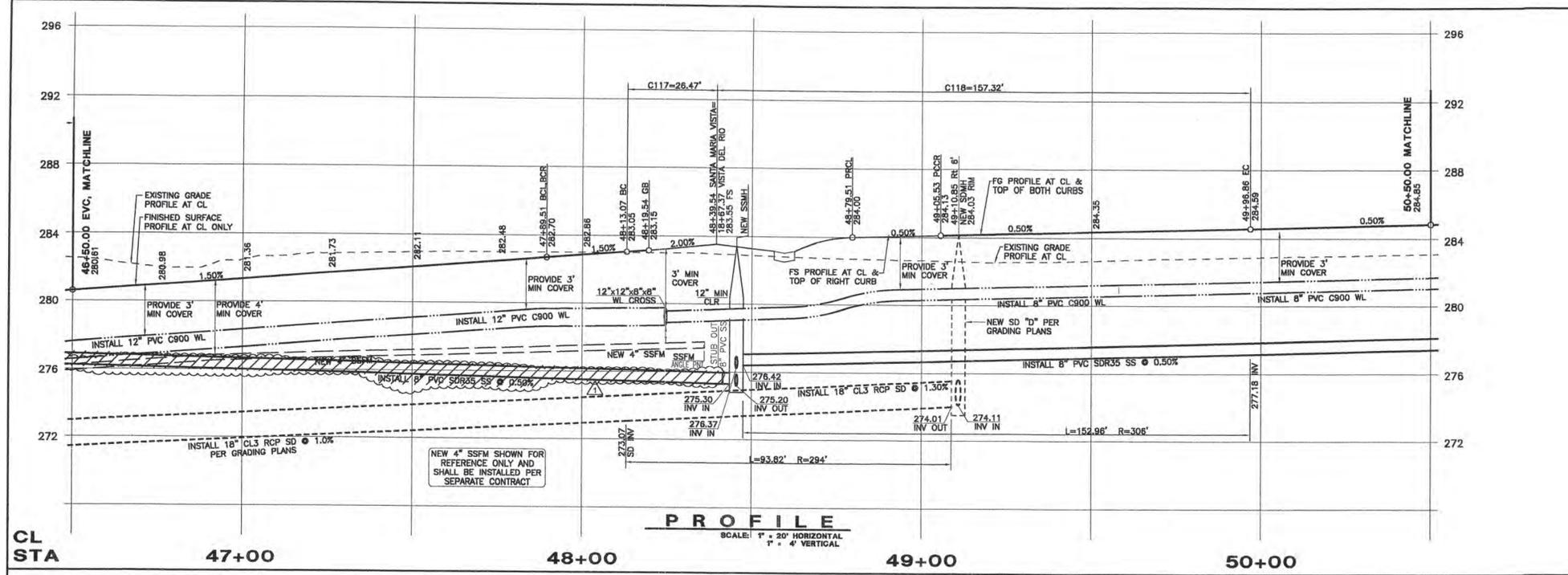
REVISIONS		APPROVED	
DATE	DESCRIPTION	DATE	DESCRIPTION
02/23/04	REMOVE SEWER IN SANTA MARIA VISTA FROM VISTA DEL RIO TO TRACT BOUNDARY		

CALILAND ENGINEERING INC.
PUBLIC IMPROVEMENT PLANS FOR
TRACTS 1802 & 1856, MARIA VISTA ESTATES
SANTA MARIA VISTA, STA 42+00 TO 46+50

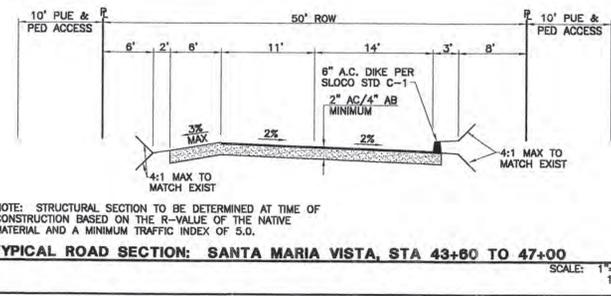
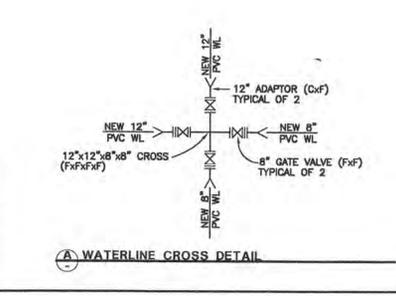
Design/Drawn: **O. E.**
County Plan Check: **5-3-04**
APPROVED FOR COUNTY REQUIREMENTS

Job No.: **03-142**
County W.O. No.: **P11D374 & P11D511**
Development Services Engineer: **KEVIN Y LAI**
Date: **4-19-04**

FILE DATA: California Coordinates **N 554 E 1264** Sheet **16 of 57**



CURVE	LENGTH	RADIUS	TANGENT	DELTA
C106	40.48'	30.00'	24.00'	77°18'39"
C107	47.12'	30.00'	30.00'	90°00'00"
C108	59.37'	30.00'	41.03'	107°39'30"
C109	47.12'	30.00'	30.00'	90°00'00"
C117	28.48'	300.00'	13.25'	8°03'24"
C118	157.32'	300.00'	80.51'	30°02'42"
C119	124.39'	318.00'	63.00'	22°24'45"
C120	85.85'	282.00'	43.26'	17°28'38"

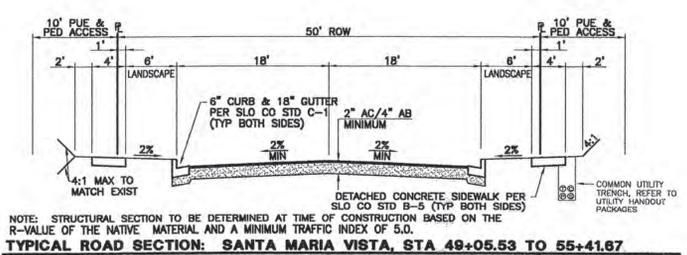


- DEMOLITION & PROTECTION NOTES:**
- 1 SAWCUT TO COMPETENT A.C. AND/OR DEMOLISH AND REMOVE EXISTING A.C. PAVEMENT, LIMITS PER PLAN.
 - 2 REMOVE AND SALVAGE EXISTING "STOP" SIGN. RELOCATE AS SHOWN ON PLANS OR REPLACE AS DIRECTED BY THE ENGINEER.
 - 3 DEMOLISH AND REMOVE EXISTING FENCE, SEE GRADING PLANS.
 - 4 DEMOLISH AND REMOVE EXISTING OVER SIDE DRAIN STRUCTURE INCLUDING PIPE, BROKEN CONCRETE, ETC.
 - 5 REMOVE EXISTING SIGN (TYPE NOTED PER PLAN).
 - 6 RELOCATE EXISTING SIGN BEHIND NEW CURB FACE (TYPE NOTED ON PLAN).
 - 7 EXISTING TREE TO BE REMOVED (SIZE AND TYPE PER PLAN), SEE GRADING PLANS.

- ROAD CONSTRUCTION NOTES:**
- 1 CONSTRUCT ASPHALT CONCRETE PAVEMENT ROAD SECTION PER STANDARD SECTION THIS SHEET.
 - 2 CONSTRUCT 6" CONCRETE CURB & 18" CONCRETE GUTTER PER SAN LUIS OBISPO COUNTY STANDARD C-1.
 - 3 CONSTRUCT 4" WIDE DETACHED CONCRETE SIDEWALK PER SAN LUIS OBISPO COUNTY STANDARD B-5.
 - 4 CONSTRUCT CONCRETE CROSS GUTTER AND SPANDREL PER SAN LUIS OBISPO COUNTY STANDARD C-2.
 - 5 CONSTRUCT CONCRETE CURB RAMP PER SAN LUIS OBISPO COUNTY STANDARD A88, CASE "E".
 - 6 CONSTRUCT 16" WIDE CONCRETE DRIVEWAY PER SAN LUIS OBISPO COUNTY STANDARD B-3.
 - 7 CONSTRUCT STANDARD STREET MONUMENT PER DETAIL SAN LUIS OBISPO COUNTY STANDARD M-1.
 - 8 CONSTRUCT WOOD ROAD BARRICADE PER SAN LUIS OBISPO COUNTY STANDARD M-4, "L" PER PLAN.
 - 9 CONSTRUCT COMBINATION "STOP" SIGN AND ROAD NAME SIGN PER SAN LUIS OBISPO COUNTY STANDARD M-6. ROAD NAME SIGN SHALL BE WHITE LETTERS ON GREEN BACKGROUND AND CONFORM TO COUNTY STANDARDS.
 - 10 CONSTRUCT PAVEMENT TRANSITION, LENGTH PER PLAN.
 - 11 CONSTRUCT CONCRETE CURB RAMP PER SAN LUIS OBISPO COUNTY STANDARD A88, CASE "D".
 - 12 CONSTRUCT "STOP" SIGN ONLY PER SAN LUIS OBISPO COUNTY STANDARD M-6.
 - 13 CONSTRUCT CONCRETE DRIVEWAY APRON PER SAN LUIS OBISPO COUNTY STANDARD B-3, WIDTH PER PLAN.
 - 14 CONSTRUCT 6" ASPHALT CONCRETE DIKE PER SAN LUIS OBISPO COUNTY STANDARD C-1 (2" OR 4" AC DIKE AT GUARD RAIL LOCATIONS ON PLAN AND PER CALTRANS STD DWG A87, TYPE "T").
 - 15 CONSTRUCT 4" WIDE ASPHALT CONCRETE SIDEWALK PER TYPICAL ROAD SECTION, THIS SHEET.
 - 16 CONSTRUCT 16" WIDE ASPHALT CONCRETE DRIVEWAY PER SAN LUIS OBISPO COUNTY STANDARD B-4, MODIFIED WITH 4" WIDE ASPHALT CONCRETE SIDEWALK AT BACK OF APPROACH.
 - 17 CONSTRUCT TEMPORARY WOOD RETAINING WALL PER DETAIL "C", SHEET D3.
 - 18 CONSTRUCT NEW SPLIT RAIL (3 FOOT/2 RAIL) WOOD FENCE (THOLL FENCING, OR EQUAL) AT BACK OF TRAIL AND/OR 12" INSIDE TRACT BOUNDARY AS SHOWN ON PLAN.
 - 19 CONSTRUCT NEW 6" CONCRETE CURB PER SAN LUIS OBISPO COUNTY STANDARD C-1, TYPE "C".
 - 20 CONSTRUCT NEW METAL BEAM GUARD RAIL WITH 150x200mm WOOD POST & BLOCK, NARROW ROADWAY INSTALLATION, AND TYPE ET TERMINAL SYSTEM END TREATMENT (A77M) PER CALTRANS STANDARDS A77-SERIES AND SPECIFICATIONS (NOTE: 2" OR 4" TALL AC DIKE REQUIRED WHERE GUARD RAILS ARE SPECIFIED ON PLANS-SEE A777).
 - 21 "STOP" AND "LIMIT LINE" PER CALTRANS STANDARDS A240 & A24E.

- DRAINAGE CONSTRUCTION NOTES:**
- REFER TO APPROVED GRADING PLANS AND GRADING PLAN ADDENDUM SHEETS FOR STORM DRAINAGE CONSTRUCTION INFORMATION. STORM DRAINAGE INFORMATION PRESENTED HEREIN IS FOR REFERENCE ONLY.
- 1 NEW RCP CLASS 3 STORM DRAIN PER APPROVED GRADING PLANS, SIZE PER PLAN.
 - 2 NEW STORM DRAIN CATCH BASIN (SAN LUIS OBISPO COUNTY STANDARD C-3) PER APPROVED GRADING PLANS.
 - 3 NEW STORM DRAIN CATCH BASIN (CALTRANS TYPE "GDD") PER APPROVED GRADING PLANS.
 - 4 NEW ROCK SLOPE PROTECTION PER 2002 CALTRANS SPECIFICATIONS, FACING CLASS, METHOD "B" PLACEMENT, ROCK FIELD SIZE PER PLAN (LENGTHxWIDTHxDEPTH).
 - 5 CONSTRUCT OVER SIDE DRAIN PER DETAIL "A", SHEET D3.
 - 6 NEW STORM DRAIN MANHOLE (APWA STD PLAN 320-0).
 - 7 CONSTRUCT NEW CONCRETE SIDEWALK UNDER DRAIN PER DETAIL "D", SHEET D3 (W-2).
 - 8 CONSTRUCT OVER SIDE DRAIN PER 2002 CALTRANS D87A, TYPE 1 w/ TYPE A DIKE, 12" SD, "L" PER PLAN.
 - 9 CONSTRUCT BROW DITCH PER DETAIL G3, SHEET D3

- UTILITY CONSTRUCTION NOTES:**
- ALL WATER AND SEWER LINES AND APPURTENANCES SHALL BE INSTALLED AND TESTED PER THE LATEST EDITION OF THE NIPOMO COMMUNITY SERVICES DISTRICT (NCS) STANDARDS AND SPECIFICATIONS. THE INSTALLATION OF ALL GAS AND WIRE (CABLE, TELEPHONE, ELECTRIC, ETC.) UTILITIES SHALL BE COORDINATED WITH THE RESPECTIVE UTILITY COMPANY.
- W1 CONSTRUCT PVC G900 WATERLINE PER NCS STANDARD W-8 AND SPECIFICATIONS (SIZE PER PLAN).
 - W2 CONSTRUCT FIRE HYDRANT ASSEMBLY PER NCS STANDARD W-1.
 - W3 CONSTRUCT WATER SERVICE CONNECTION PER NCS STANDARD W-4.
 - W4 CONSTRUCT WATERLINE 1" AIR & VACUUM RELIEF ASSEMBLY PER NCS STANDARD W-5.
 - W5 CONSTRUCT WATERLINE BLOW-OFF ASSEMBLY PER NCS STANDARD W-7.
 - W6 CONSTRUCT WATERLINE VERTICAL BEND PER DETAIL "E", SHEET D3.
 - W7 CONSTRUCT PRESSURE RELIEF VALVE ASSEMBLY PER DETAIL F, SHEET D3.
 - S1 CONSTRUCT NEW PVC SDR35 SEWER LINE PER NCS STANDARD W-8 AND SPECIFICATIONS (SIZE PER PLAN).
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REVISIONS

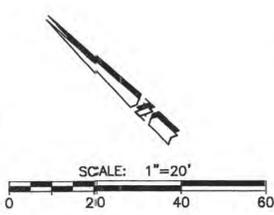
DATE	DESCRIPTION	APPROVED
02/23/04	REMOVE SEWER IN SANTA MARIA VISTA FROM VISTA DEL RIO TO TRACT BOUNDARY	

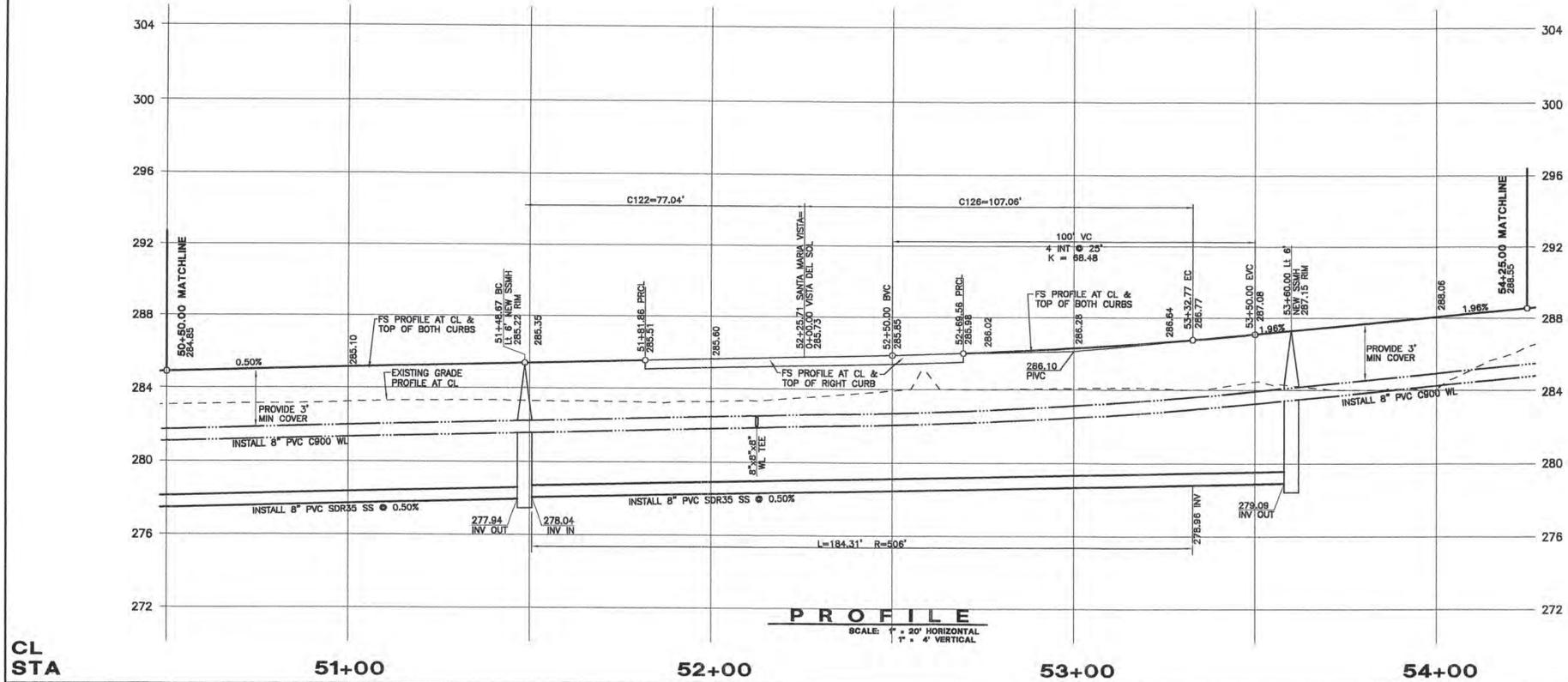
CALILAND ENGINEERING INC.
1210 S. GARFIELD AVE, SUITE 200
ALHAMBRA, CA 91801
TEL: (626) 281-2269

PUBLIC IMPROVEMENT PLANS FOR TRACTS 1802 & 1856, MARIA VISTA ESTATES
SANTA MARIA VISTA: STA 46+50 TO 50+50

Design/Draw: County Plan Check: APPROVED FOR COUNTY REQUIREMENTS
Job No. 03-142
City W.O. No. P11D374 & P11D511
Development Services Engineer: KEVIN Y LAI
Date: 4-19-04

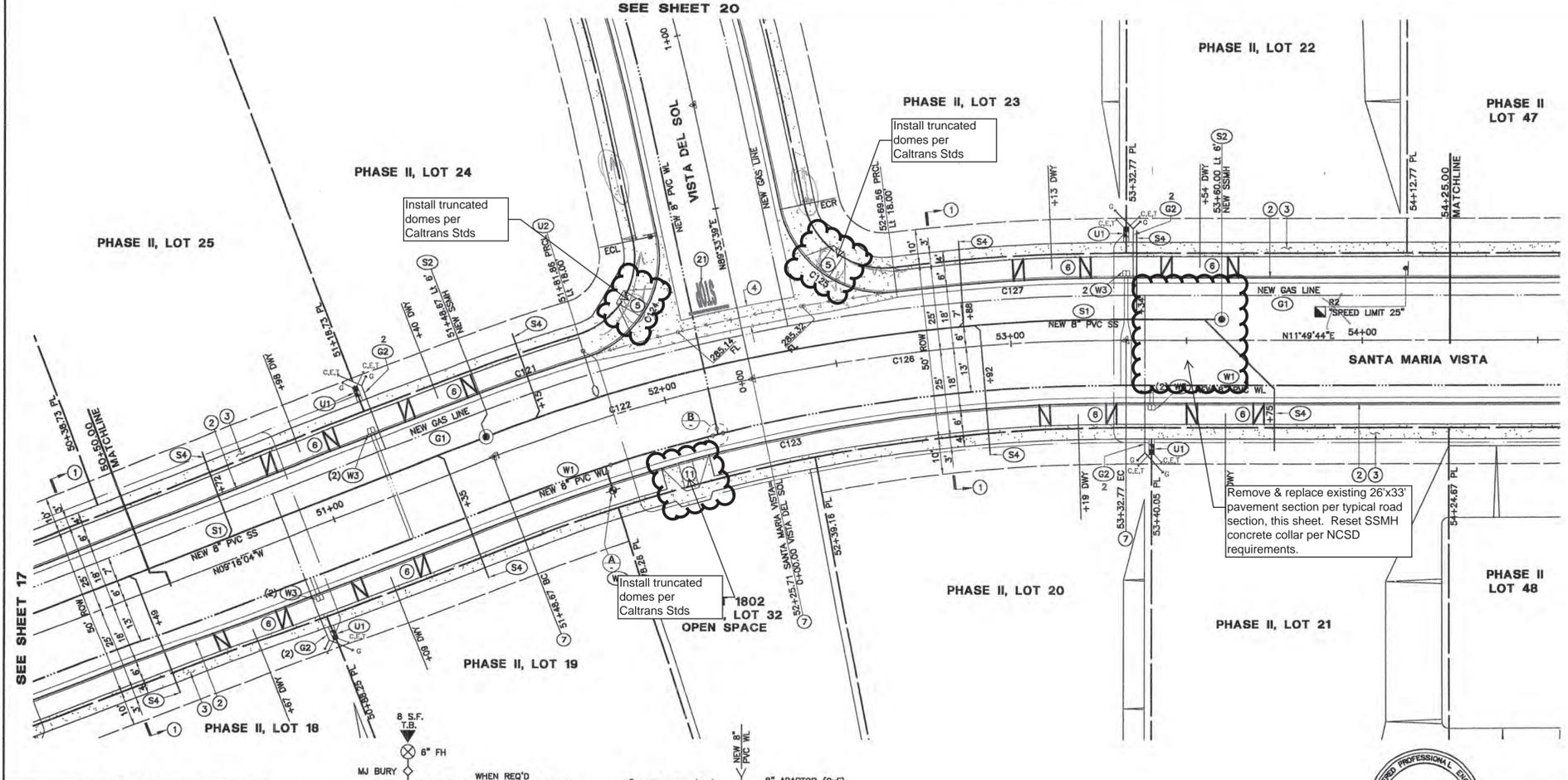
California Coordinates: N 554 E 1264
Sheet 17 of 57





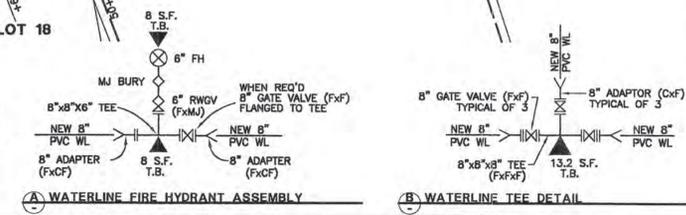
CL STA 51+00 52+00 53+00 54+00

PROFILE
SCALE: 1" = 20' HORIZONTAL
1" = 4' VERTICAL



CURVE TABLE

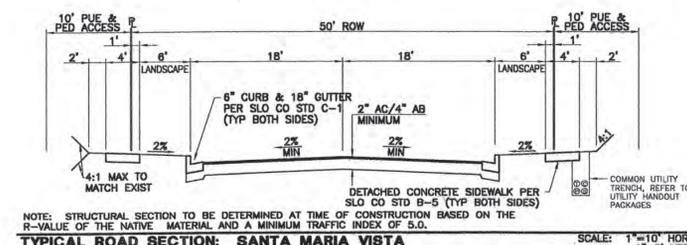
CURVE	LENGTH	RADIUS	TANGENT	DELTA
C121	34.39'	518.00'	17.20'	3°48'13"
C122	77.04'	500.00'	38.80'	8°49'43"
C123	177.48'	482.00'	89.75'	21°05'48"
C124	44.49'	30.00'	27.48'	84°58'30"
C125	44.49'	30.00'	27.48'	84°58'30"
C126	107.09'	500.00'	53.73'	12°16'05"
C127	65.48'	518.00'	32.78'	7°14'35"



- DEMOLITION & PROTECTION NOTES:**
- SAWCUT TO COMPETENT A.C. AND/OR DEMOLISH AND REMOVE EXISTING A.C. PAVEMENT, LIMITS PER PLAN.
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 - REMOVE EXISTING SIGN (TYPE NOTED PER PLAN).
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- ROAD CONSTRUCTION NOTES:**
- CONSTRUCT ASPHALT CONCRETE PAVEMENT ROAD SECTION PER STANDARD SECTION THIS SHEET.
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 - CONSTRUCT CONCRETE CURB RAMP PER SAN LUIS OBISPO COUNTY STANDARD ABB, CASE "E".
 - CONSTRUCT 16" WIDE CONCRETE DRIVEWAY PER SAN LUIS OBISPO COUNTY STANDARD B-3.
 - CONSTRUCT STANDARD STREET MONUMENT PER DETAIL SAN LUIS OBISPO COUNTY STANDARD M-1.
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 - CONSTRUCT CONCRETE DRIVEWAY APRON PER SAN LUIS OBISPO COUNTY STANDARD B-3, WIDTH PER PLAN.
 - CONSTRUCT 6" ASPHALT CONCRETE DIKE PER SAN LUIS OBISPO COUNTY STANDARD C-1 (2" OR 4" AC DIKE AT GUARD RAIL LOCATIONS ON PLAN AND PER CALTRANS STD DW A87, TYPE "F").
 - CONSTRUCT 4' WIDE ASPHALT CONCRETE SIDEWALK PER TYPICAL ROAD SECTION, THIS SHEET.
 - CONSTRUCT 16" WIDE ASPHALT CONCRETE DRIVEWAY PER SAN LUIS OBISPO COUNTY STANDARD B-4, MODIFIED WITH 4' WIDE ASPHALT CONCRETE SIDEWALK AT BACK OF APPROACH.
 - CONSTRUCT TEMPORARY WOOD RETAINING WALL PER DETAIL "C", SHEET D3.
 - CONSTRUCT NEW SPLIT RAIL (3 FOOT/2 RAIL) WOOD FENCE (THOLL FENCING, OR EQUAL) AT BACK OF TRAIL AND/OR INSIDE TRACT BOUNDARY AS SHOWN ON PLAN.
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 - "STOP" AND "LIMIT LINE" PER CALTRANS STANDARDS A240 & A24E.

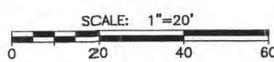
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 - CONSTRUCT OVER SIDE DRAIN PER DETAIL "A", SHEET D3.
 - NEW STORM DRAIN MANHOLE (APWA STD PLAN 320-0).
 - CONSTRUCT NEW CONCRETE SIDEWALK UNDER DRAIN PER DETAIL "D", SHEET D3 (W=2).
 - CONSTRUCT OVER SIDE DRAIN PER 2002 CALTRANS D87A, TYPE 1 w/ TYPE A DIKE, 12" SD, "L" PER PLAN.
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- UTILITY CONSTRUCTION NOTES:**
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 - COORDINATE NEW GAS LINE TRENCHING WITH THE GAS COMPANY PRIOR TO CONSTRUCTION.
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NOTE: STRUCTURAL SECTION TO BE DETERMINED AT TIME OF CONSTRUCTION BASED ON THE R-VALUE OF THE NATIVE MATERIAL AND A MINIMUM TRAFFIC INDEX OF 5.0.

TYPICAL ROAD SECTION: SANTA MARIA VISTA SCALE: 1"=10' HORIZ 1"=5' VERT



REVISIONS		APPROVED	
DATE	DESCRIPTION	DATE	DESCRIPTION

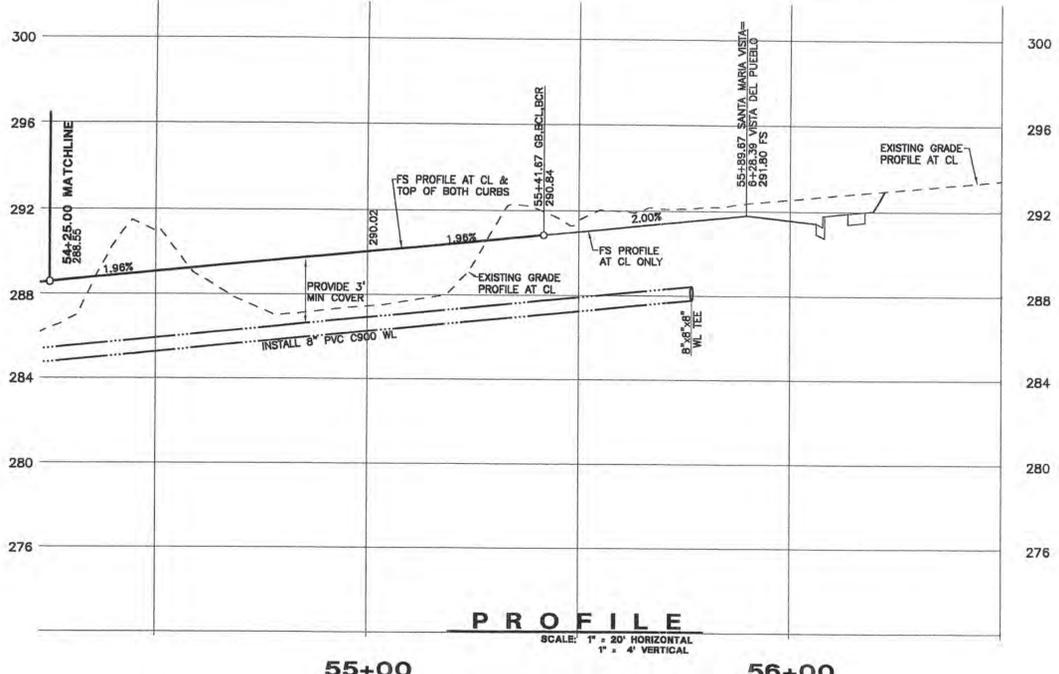
CALILAND ENGINEERING INC. 1218 S. GARFIELD AVE. ALHAMBRA, CA. 91801 TEL: (626) 281-2288

TRACTS 1802 & 1856, MARIA VISTA ESTATES SANTA MARIA VISTA: STA 50+50 TO 54+25

Design/Draw: County Plan Check: APPROVED FOR COUNTY REQUIREMENTS

Job No. 03-142 County W.O. No. P11D374 & P11D511 Development Services Engineer: KEVIN Y LAI Date: 03-10-04

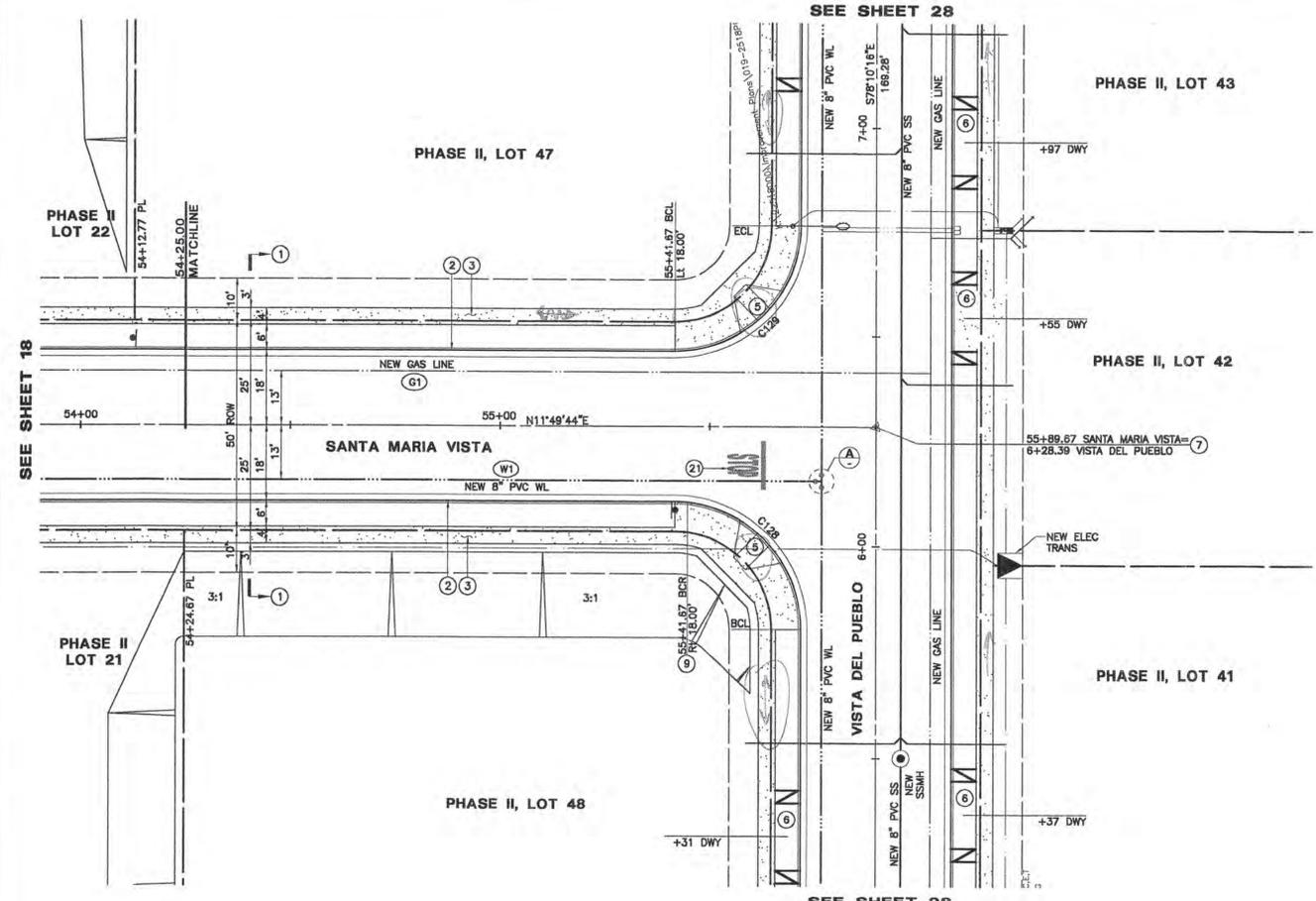
FILE DATA: California Coordinates N 554 E 1264 Sheet 18 of 57



CL STA
54+00

55+00 56+00

PROFILE
SCALE: 1" = 20' HORIZONTAL
1" = 4' VERTICAL



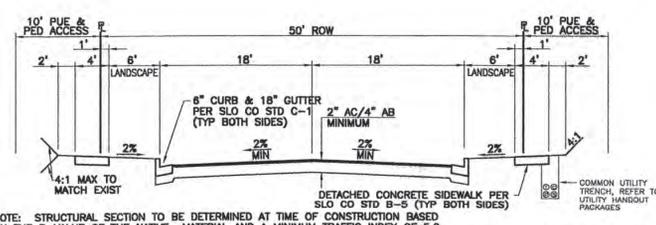
THIS SHEET PROVIDED FOR REFERENCE ONLY

- DEMOLITION & PROTECTION NOTES:**
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 - 6 RELOCATE EXISTING SIGN BEHIND NEW CURB FACE (TYPE NOTED ON PLAN).
 - 7 EXISTING TREE TO BE REMOVED (SIZE AND TYPE PER PLAN), SEE GRADING PLANS.

- ROAD CONSTRUCTION NOTES:**
- 1 CONSTRUCT ASPHALT CONCRETE PAVEMENT ROAD SECTION PER STANDARD SECTION THIS SHEET.
 - 2 CONSTRUCT 6" CONCRETE CURB & 18" CONCRETE GUTTER PER SAN LUIS OBISPO COUNTY STANDARD C-1.
 - 3 CONSTRUCT 4" WIDE DETACHED CONCRETE SIDEWALK PER SAN LUIS OBISPO COUNTY STANDARD B-5.
 - 4 CONSTRUCT CONCRETE CROSS GUTTER AND SPANDREL PER SAN LUIS OBISPO COUNTY STANDARD C-2.
 - 5 CONSTRUCT CONCRETE CURB RAMP PER SAN LUIS OBISPO COUNTY STANDARD ABB, CASE "E".
 - 6 CONSTRUCT 16" WIDE CONCRETE DRIVEWAY PER SAN LUIS OBISPO COUNTY STANDARD B-3.
 - 7 CONSTRUCT STANDARD STREET MONUMENT PER DETAIL SAN LUIS OBISPO COUNTY STANDARD M-1.
 - 8 CONSTRUCT WOOD ROAD BARRICADE PER SAN LUIS OBISPO COUNTY STANDARD M-4, "L" PER PLAN.
 - 9 CONSTRUCT COMBINATION "STOP" SIGN AND ROAD NAME SIGN PER SAN LUIS OBISPO COUNTY STANDARD M-6. ROAD NAME SIGN SHALL BE WHITE LETTERS ON GREEN BACKGROUND AND CONFORM TO COUNTY STANDARDS.
 - 10 CONSTRUCT PAVEMENT TRANSITION, LENGTH PER PLAN.
 - 11 CONSTRUCT CONCRETE CURB RAMP PER SAN LUIS OBISPO COUNTY STANDARD ABB, CASE "D".
 - 12 CONSTRUCT "STOP" SIGN ONLY PER SAN LUIS OBISPO COUNTY STANDARD M-6.
 - 13 CONSTRUCT CONCRETE DRIVEWAY APRON PER SAN LUIS OBISPO COUNTY STANDARD B-3, WIDTH PER PLAN.
 - 14 CONSTRUCT 6" ASPHALT CONCRETE DIKE PER SAN LUIS OBISPO COUNTY STANDARD C-1 (2" OR 4" AC DIKE AT GUARD RAIL LOCATIONS ON PLAN AND PER CALTRANS STD DWG A87, TYPE "F").
 - 15 CONSTRUCT 4" WIDE ASPHALT CONCRETE SIDEWALK PER TYPICAL ROAD SECTION, THIS SHEET.
 - 16 CONSTRUCT 16" WIDE ASPHALT CONCRETE DRIVEWAY PER SAN LUIS OBISPO COUNTY STANDARD B-4, MODIFIED WITH 4" WIDE ASPHALT CONCRETE SIDEWALK AT BACK OF APPROACH.
 - 17 CONSTRUCT TEMPORARY WOOD RETAINING WALL PER DETAIL "C", SHEET D3.
 - 18 CONSTRUCT NEW SPLIT RAIL (3 FOOT/2 RAIL) WOOD FENCE (THOLL FENCING, OR EQUAL) AT BACK OF TRAIL AND/OR 12" INSIDE TRACT BOUNDARY AS SHOWN ON PLAN.
 - 19 CONSTRUCT NEW 6" CONCRETE CURB PER SAN LUIS OBISPO COUNTY STANDARD C-1, TYPE "C".
 - 20 CONSTRUCT NEW METAL BEAM GUARD RAIL WITH 150x200mm WOOD POST & BLOCK, NARROW ROADWAY INSTALLATION, AND TYPE ET TERMINAL SYSTEM END TREATMENT (A776) PER CALTRANS STANDARDS A77-SERIES AND SPECIFICATIONS (NOTE: 2" OR 4" TALL AC DIKE REQUIRED WHERE GUARD RAILS ARE SPECIFIED ON PLANS-SEE A776).
 - 21 "STOP" AND "LIMIT LINE" PER CALTRANS STANDARDS A240 & A24E.

- DRAINAGE CONSTRUCTION NOTES:**
- REFER TO APPROVED GRADING PLANS AND GRADING PLAN ADDENDUM SHEETS FOR STORM DRAINAGE CONSTRUCTION INFORMATION. STORM DRAINAGE INFORMATION PRESENTED HEREIN IS FOR REFERENCE ONLY.
- 1 NEW RCP CLASS 3 STORM DRAIN PER APPROVED GRADING PLANS, SIZE PER PLAN.
 - 2 NEW STORM DRAIN CATCH BASIN (SAN LUIS OBISPO COUNTY STANDARD C-3) PER APPROVED GRADING PLANS.
 - 3 NEW STORM DRAIN CATCH BASIN (CALTRANS TYPE "DOO") PER APPROVED GRADING PLANS.
 - 4 NEW ROCK SLOPE PROTECTION PER 2002 CALTRANS SPECIFICATIONS, FACING CLASS, METHOD "B" PLACEMENT, ROCK FIELD SIZE PER PLAN (LENGTHxWIDTHxDEPTH).
 - 5 CONSTRUCT OVER SIDE DRAIN PER DETAIL "A", SHEET D3.
 - 6 NEW STORM DRAIN MANHOLE (APWA STD PLAN 320-0).
 - 7 CONSTRUCT NEW CONCRETE SIDEWALK UNDER DRAIN PER DETAIL "D", SHEET D3 (W-2).
 - 8 CONSTRUCT OVER SIDE DRAIN PER 2002 CALTRANS D87A, TYPE 1 w/ TYPE A DIKE, 12" SD, "L" PER PLAN.
 - 9 CONSTRUCT BROW DITCH PER DETAIL G3, SHEET D3.

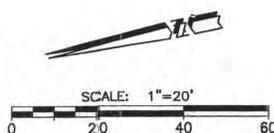
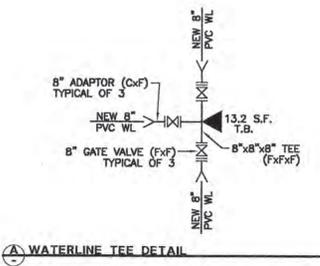
- UTILITY CONSTRUCTION NOTES:**
- ALL WATER AND SEWER LINES AND APPURTENANCES SHALL BE INSTALLED AND TESTED PER THE LATEST EDITION OF THE INPOMO COMMUNITY SERVICES DISTRICT (NCS) STANDARDS AND SPECIFICATIONS. THE INSTALLATION OF ALL GAS AND WIRE (CABLE, TELEPHONE, ELECTRIC, ETC) UTILITIES SHALL BE COORDINATED WITH THE RESPECTIVE UTILITY COMPANY.
- W1 CONSTRUCT PVC C900 WATERLINE PER NCS STANDARD W-8 AND SPECIFICATIONS (SIZE PER PLAN).
 - W2 CONSTRUCT FIRE HYDRANT ASSEMBLY PER NCS STANDARD W-1.
 - W3 CONSTRUCT WATER SERVICE CONNECTION PER NCS STANDARD W-4.
 - W4 CONSTRUCT WATERLINE 1" AIR & VACUUM RELIEF ASSEMBLY PER NCS STANDARD W-5.
 - W5 CONSTRUCT WATERLINE BLOW-OFF ASSEMBLY PER NCS STANDARD W-7.
 - W6 CONSTRUCT WATERLINE VERTICAL BEND PER DETAIL "E", SHEET D3.
 - W7 CONSTRUCT PRESSURE RELIEF VALVE ASSEMBLY PER DETAIL F, SHEET D3.
 - S1 CONSTRUCT NEW PVC SDR35 SEWER LINE PER NCS STANDARD W-8 AND SPECIFICATIONS (SIZE PER PLAN).
 - S2 CONSTRUCT NEW SEWER MANHOLE PER NCS STANDARDS S-1 & S-2.
 - S3 CONSTRUCT NEW SEWER CLEAN OUT PER NCS STANDARD S-4.
 - S4 CONSTRUCT NEW 4" PVC SDR35 SEWER LATERAL PER NCS STANDARD S-5.
 - S5 NEW 4" SANITARY SEWER FORCE MAIN (SHOWN FOR REFERENCE ONLY, TO BE CONSTRUCTED UNDER SEPARATE DOCUMENT).
 - U1 INSTALL ELECTRIC, TELEPHONE, & CATV UTILITY PULL AND SPLICE BOXES PER RESPECTIVE UTILITY COMPANY STANDARDS AND SPECIFICATIONS.
 - U2 INSTALL NEW STREET LIGHT STANDARD PER DETAIL "B", SHEET D3.
 - G1 COORDINATE NEW GAS LINE TRENCHING WITH THE GAS COMPANY PRIOR TO CONSTRUCTION.
 - G2 CONSTRUCT GAS LINE SERVICE LATERAL, STUB AND CAP 3" INSIDE PROPERTY LINE.



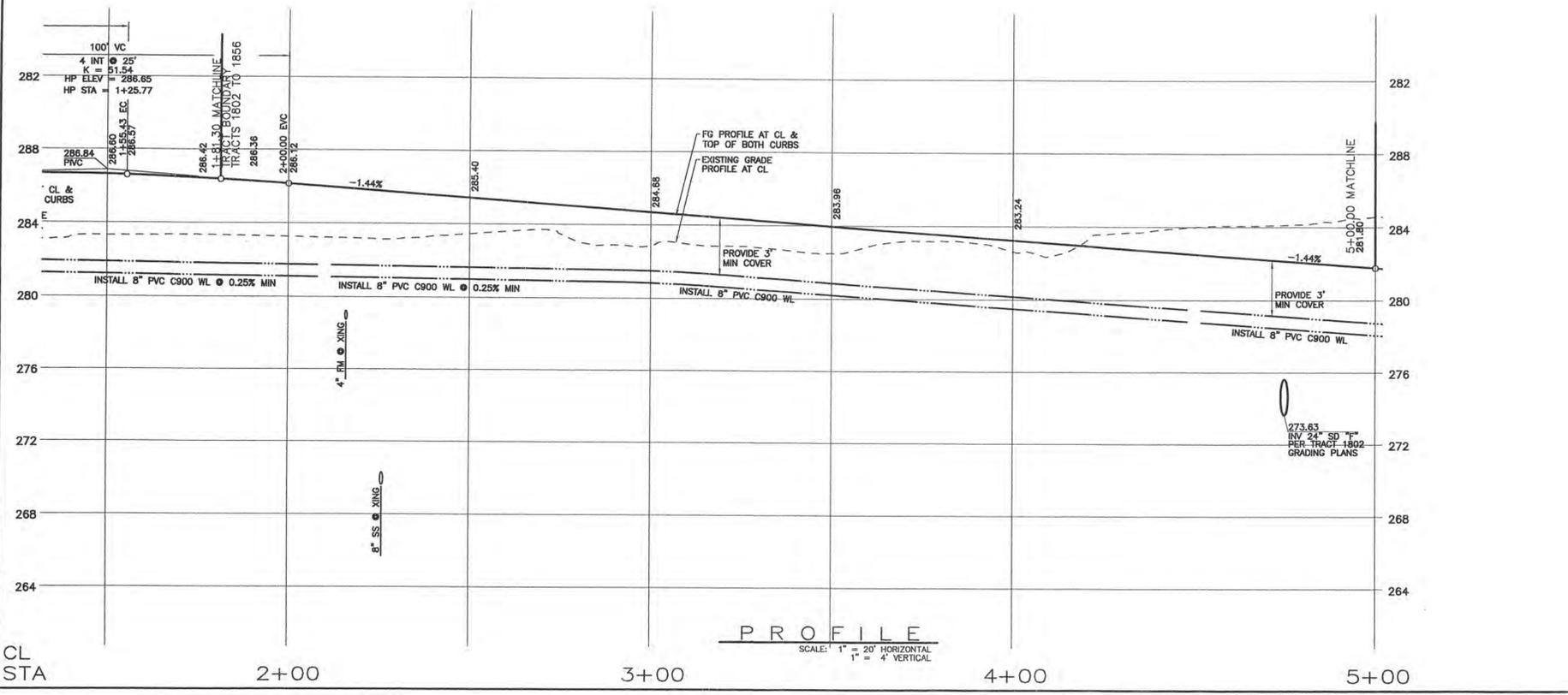
NOTE: STRUCTURAL SECTION TO BE DETERMINED AT TIME OF CONSTRUCTION BASED ON THE R-VALUE OF THE NATIVE MATERIAL AND A MINIMUM TRAFFIC INDEX OF 5.0.
TYPICAL ROAD SECTION: SANTA MARIA VISTA SCALE: 1"=10' HORIZ
1"=5' VERT

CURVE TABLE

CURVE	LENGTH	RADIUS	TANGENT	DELTA
C128	47.12'	30.00'	30.00'	90°00'00"
C129	47.12'	30.00'	30.00'	90°00'00"



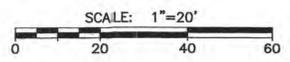
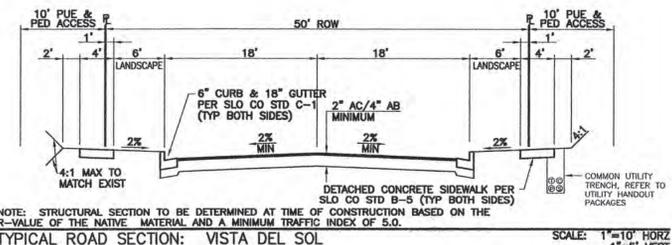
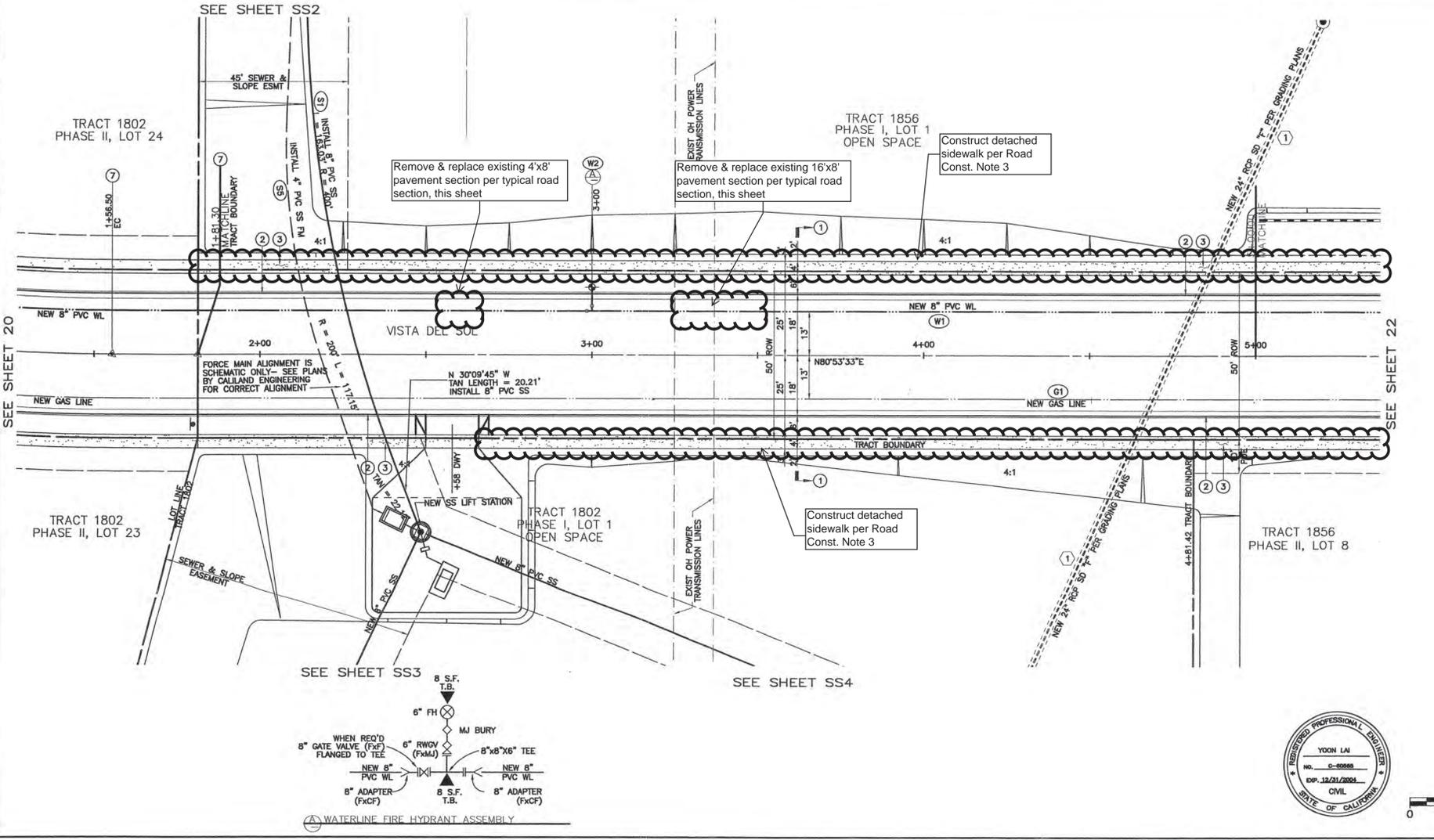
REVISIONS		CALILAND ENGINEERING INC. 1218 S. GARFIELD AVE, SUITE 200 ALHAMBRA, CA 91801 TEL: (626) 261-2288	
DATE	DESCRIPTION	APPROVD	
		PUBLIC IMPROVEMENT PLANS FOR TRACTS 1802 & 1856, MARIA VISTA ESTATES	
		SANTA MARIA VISTA: STA 54+25 TO 55+89.67	
Design/Drawn	County Plan Check	APPROVED FOR COUNTY REQUIREMENTS	
	D.E. S.3.04	Development Services Engineer Date	
Job No.	County W.O. No.	Date	
03-142	P11D374 & P11D511	KEVIN Y LAI RCE 90595 Date	
FILE DATA:	California Coordinates	Sheet	
	N 554 E 1264	19 of 57 19	



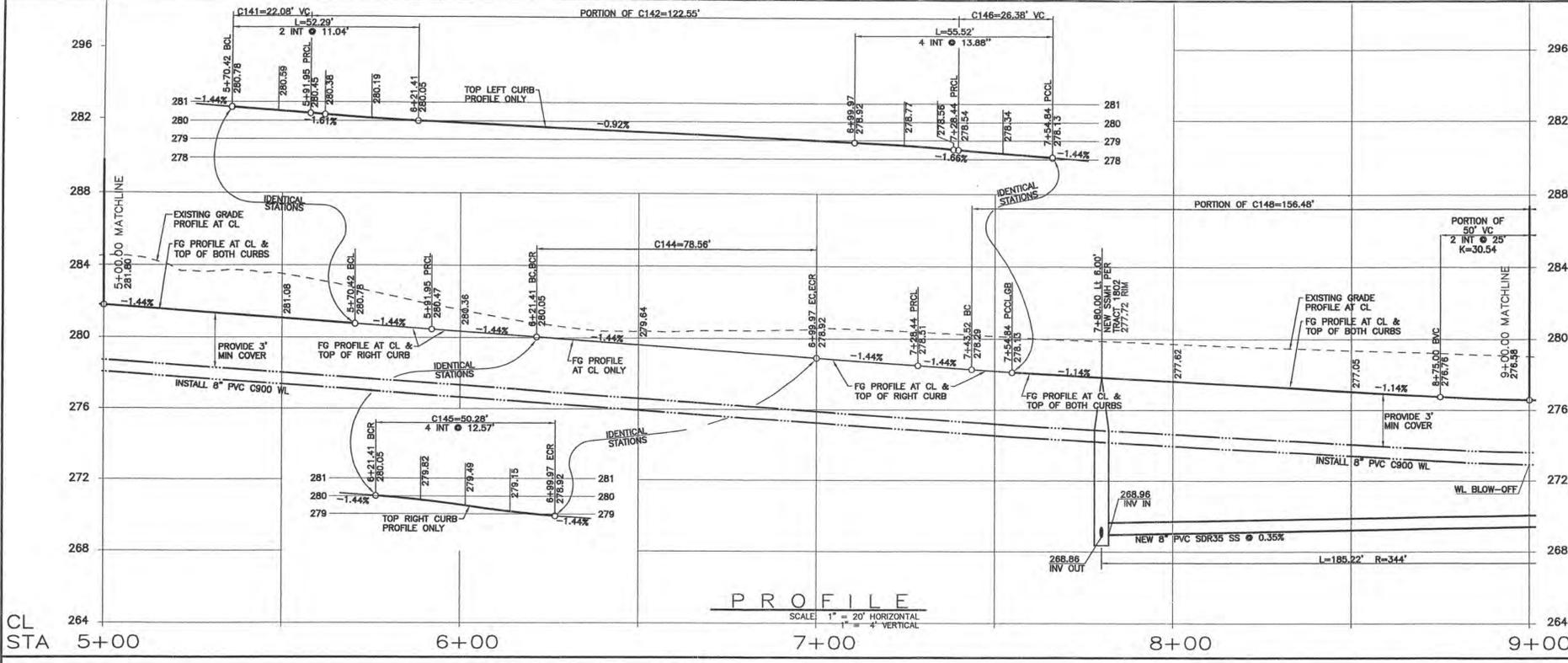
- DEMOLITION & PROTECTION NOTES:**
- 1 SAWCUT TO COMPETENT A.C. AND/OR DEMOLISH AND REMOVE EXISTING A.C. PAVEMENT, LIMITS PER PLAN.
 - 2 REMOVE AND SALVAGE EXISTING "STOP" SIGN. RELOCATE AS SHOWN ON PLANS OR REPLACE AS DIRECTED BY THE ENGINEER.
 - 3 DEMOLISH AND REMOVE EXISTING FENCE, SEE GRADING PLANS.
 - 4 DEMOLISH AND REMOVE EXISTING OVER SIDE DRAIN STRUCTURE INCLUDING PIPE, BROKEN CONCRETE, ETC.
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 - 6 RELOCATE EXISTING SIGN BEHIND NEW CURB FACE (TYPE NOTED ON PLAN).
 - 7 EXISTING TREE TO BE REMOVED (SIZE AND TYPE PER PLAN), SEE GRADING PLANS.
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 - 7 CONSTRUCT STANDARD STREET MONUMENT PER DETAIL SAN LUIS OBISPO COUNTY STANDARD M-1.
 - 8 CONSTRUCT ROAD BARRICADE PER SAN LUIS OBISPO COUNTY STANDARD M-4, "L" PER PLAN.
 - 9 CONSTRUCT COMBINATION "STOP" SIGN AND ROAD NAME SIGN PER SAN LUIS OBISPO COUNTY STANDARD M-6. ROAD NAME SIGN SHALL BE WHITE LETTERS ON GREEN BACKGROUND AND CONFORM TO COUNTY STANDARDS.
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 - 21 "STOP" AND "LIMIT LINE" PER CALTRANS STANDARDS A24D & A24E.

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 - 6 CONSTRUCT OVER SIDE DRAIN PER DETAIL "K", SHEET D3.
 - 7 NEW STORM DRAIN MANHOLE (APWA STD PLAN 320-0).
 - 10 CONSTRUCT NEW CONCRETE SIDEWALK UNDER DRAIN PER DETAIL "D", SHEET D3 (W=2').
 - 11 CONSTRUCT OVER SIDE DRAIN PER 2002 CALTRANS D67A, TYPE 1 W/ TYPE A DIKE, 12" SD, "L" PER PLAN.
 - 12 CONSTRUCT BROW DITCH PER DETAIL G3, SHEET D3

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 - G2) CONSTRUCT GAS LINE SERVICE LATERAL, STUB AND CAP 3' INSIDE PROPERTY LINE.

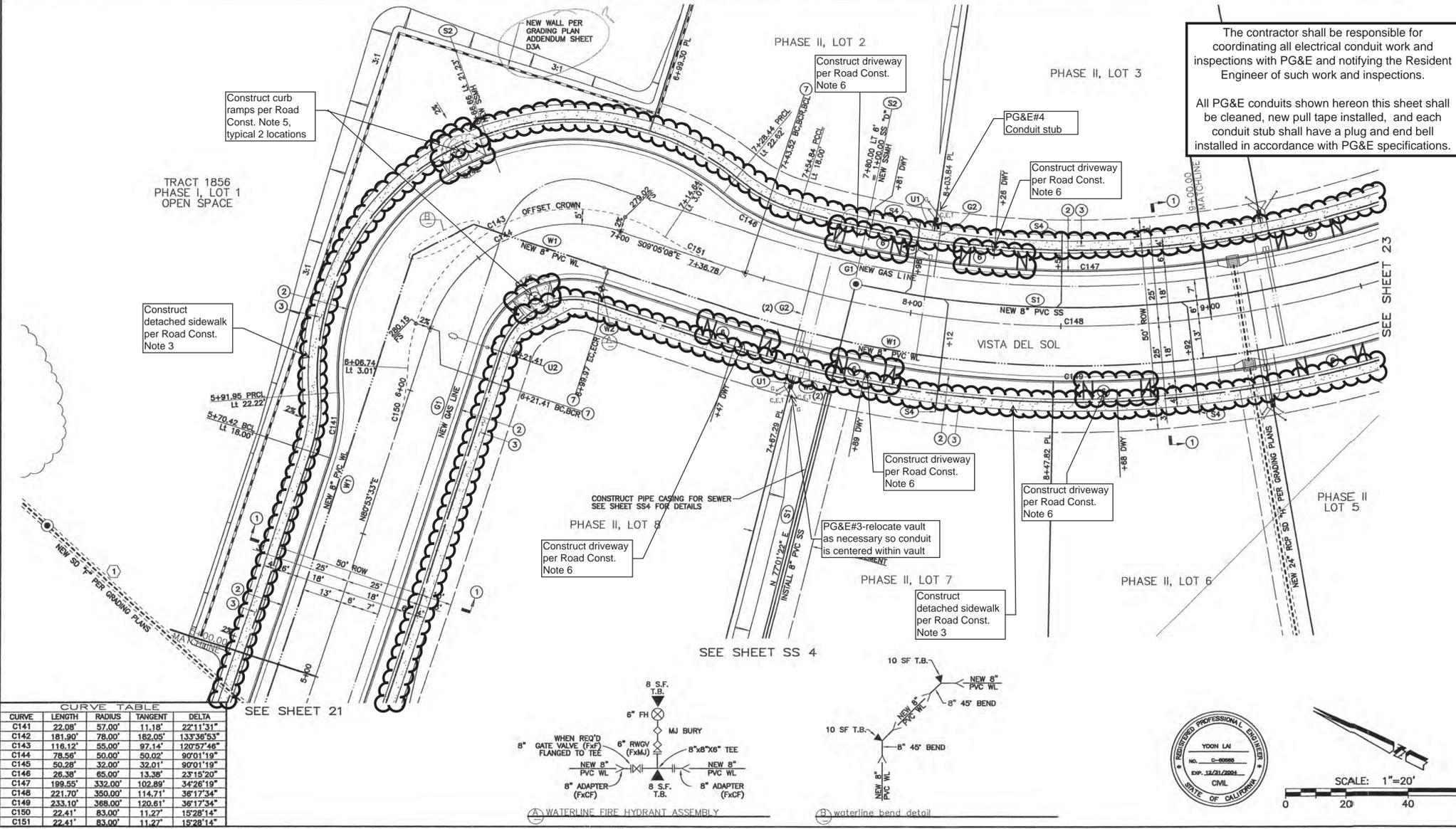


REVISIONS			CALILAND ENGINEERING INC.	
DATE	DESCRIPTION	APPROV	1218 S. GARFIELD AVE., SUITE 200 ALHAMBRA, CA 91801 TEL: (626) 281-2288	
			PUBLIC IMPROVEMENT PLANS FOR	
			TRACTS 1802 & 1856, MARIA VISTA ESTATES	
			VISTA DEL SOL: STA 1+81.30 TO 5+00.00	
			Design/Drawn	County Plan Check APPROVED FOR COUNTY REQUIREMENTS
				0.5 5-3-04
			Job No.	Development Services Engineer Date
			03-142	P11D374 & P11B541
			County W.O. No.	KEVIN Y LAI RCE 60565 Date
				12-19-04
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				Sheet 21 of 57

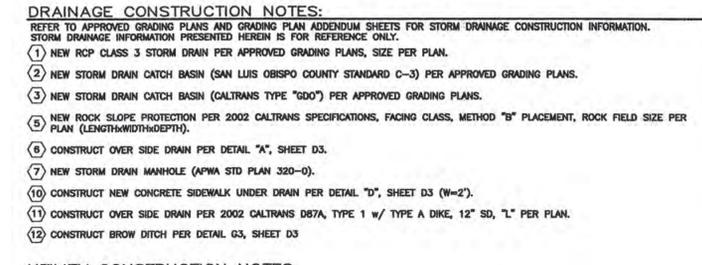


- DEMOLITION & PROTECTION NOTES:**
- 1] SAWCUT TO COMPETENT A.C. AND/OR DEMOLISH AND REMOVE EXISTING A.C. PAVEMENT, LIMITS PER PLAN.
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 - 3] CONSTRUCT 4" WIDE DETACHED CONCRETE SIDEWALK PER SAN LUIS OBISPO COUNTY STANDARD B-5.
 - 4] CONSTRUCT CONCRETE CURB RAMP PER CALTRANS STANDARD A88A, CASE "F".
 - 5] CONSTRUCT 18" WIDE ASPHALT CONCRETE DRIVEWAY PER SAN LUIS OBISPO COUNTY STANDARD B-4.
 - 6] CONSTRUCT STANDARD STREET MONUMENT PER DETAIL SAN LUIS OBISPO COUNTY STANDARD M-1.
 - 7] CONSTRUCT ROAD BARRICADE PER SAN LUIS OBISPO COUNTY STANDARD M-4, "L" PER PLAN.
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 - 9] CONSTRUCT PAVEMENT TRANSITION, LENGTH PER PLAN.
 - 10] CONSTRUCT CONCRETE CURB RAMP PER SAN LUIS OBISPO COUNTY STANDARD A88, CASE "D".
 - 11] CONSTRUCT "STOP" SIGN ONLY PER SAN LUIS OBISPO COUNTY STANDARD M-8.
 - 12] CONSTRUCT CONCRETE DRIVEWAY APRON PER SAN LUIS OBISPO COUNTY STANDARD B-3, WIDTH PER PLAN.
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CL STA 5+00 6+00 7+00 8+00 9+00

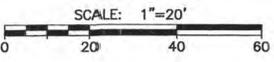
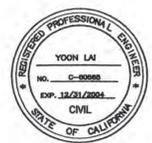
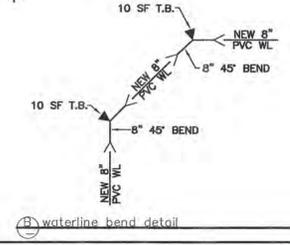
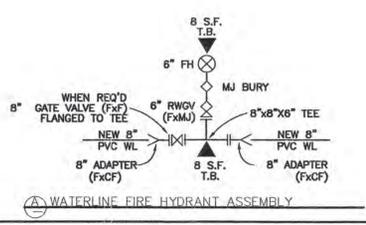


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 - 6] NEW STORM DRAIN MANHOLE (APWA STD PLAN 320-0).
 - 7] CONSTRUCT NEW CONCRETE SIDEWALK UNDER DRAIN PER DETAIL "D", SHEET D3.
 - 8] CONSTRUCT OVER SIDE DRAIN PER 2002 CALTRANS D87A, TYPE 1 W/ TYPE A DIKE, 12" SD, "L" PER PLAN.
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CURVE TABLE

CURVE	LENGTH	RADIUS	TANGENT	DELTA
C141	22.08'	57.00'	11.18'	22°11'31"
C142	181.90'	78.00'	182.05'	133°36'53"
C143	116.12'	55.00'	97.14'	120°57'46"
C144	78.56'	50.00'	50.02'	90°01'19"
C145	50.28'	32.00'	32.01'	90°01'19"
C146	26.38'	65.00'	13.38'	23°15'20"
C147	199.55'	332.00'	102.89'	34°26'19"
C148	221.70'	350.00'	114.71'	36°17'34"
C149	233.10'	368.00'	120.61'	36°17'34"
C150	22.41'	83.00'	11.27'	15°28'14"
C151	22.41'	83.00'	11.27'	15°28'14"



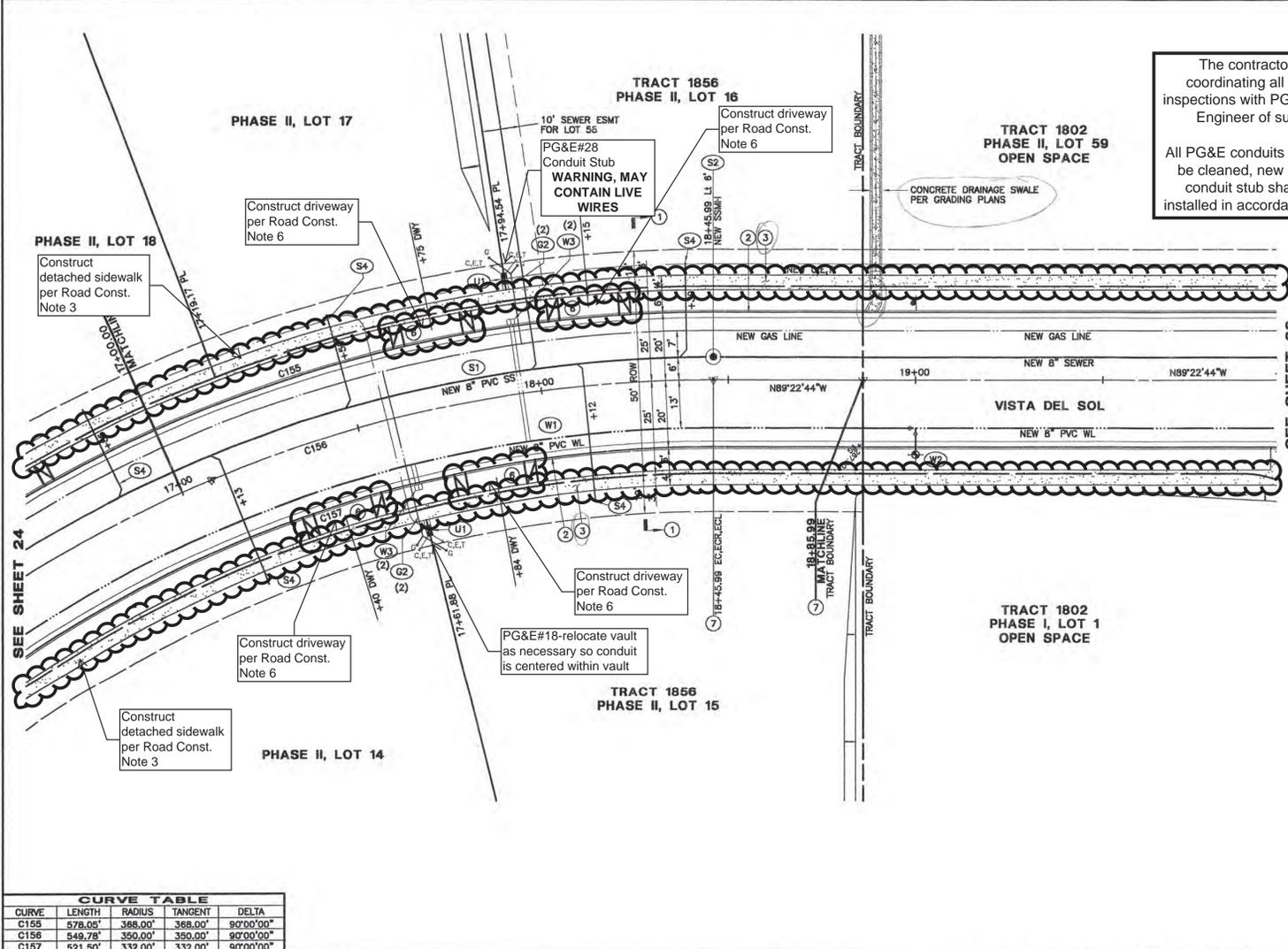
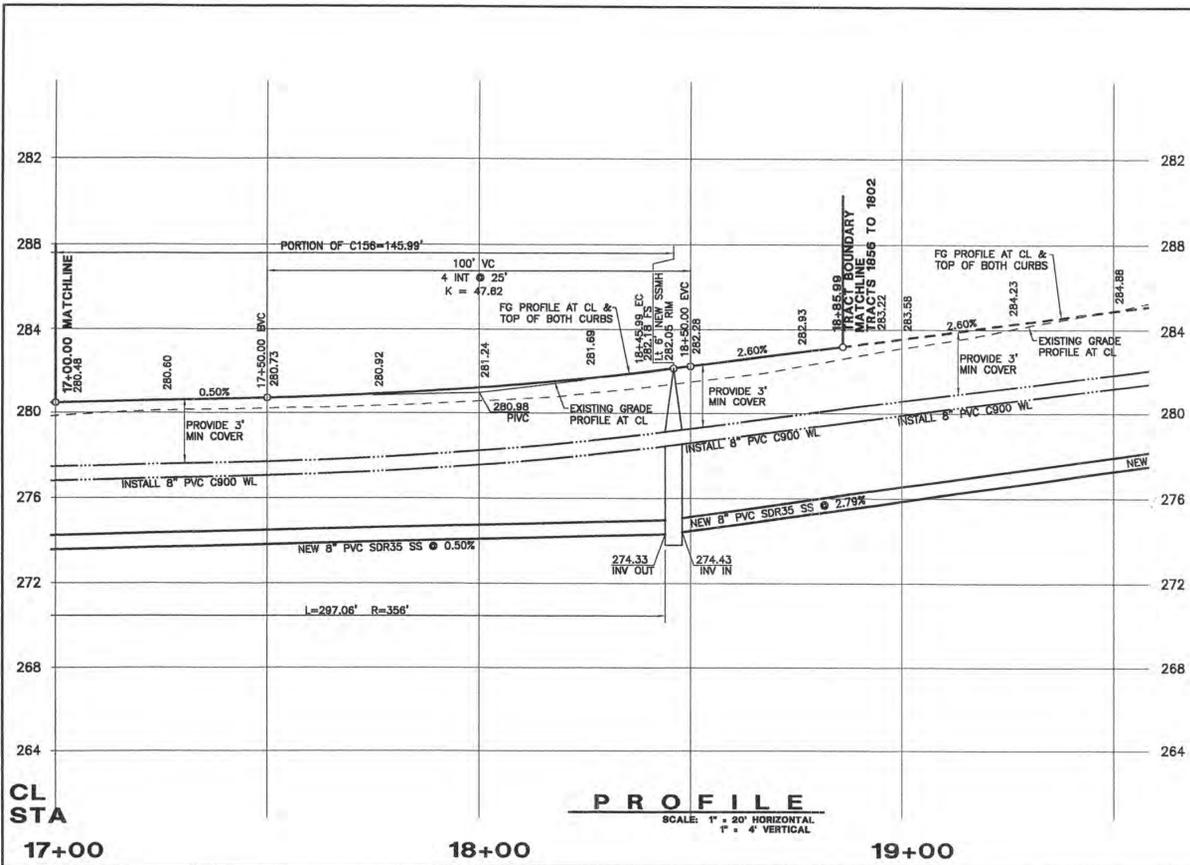
REVISIONS		APPRVD	
DATE	DESCRIPTION		

CALILAND ENGINEERING INC.
1216 S. GARFIELD AVE., SUITE 200
ALHAMBRA, CA 91801
TEL: (626) 281-2288

PUBLIC IMPROVEMENT PLANS FOR
TRACTS 1802 & 1856, MARIA VISTA ESTATES
VISTA DEL SOL: STA 5+00.00 TO 9+00.00

Design/Draw: County Plan Check: APPROVED FOR COUNTY REQUIREMENTS
D.E. 5304 Development Services Engineer Date
Job No. 03-142 County W.O. No. P11D374 & P11D511
REVIN Y LAI RCE 60565 Date 4-9-04

FILE DATA: California Coordinates N 554 E 1264 Sheet 22 of 57



The contractor shall be responsible for coordinating all electrical conduit work and inspections with PG&E and notifying the Resident Engineer of such work and inspections.

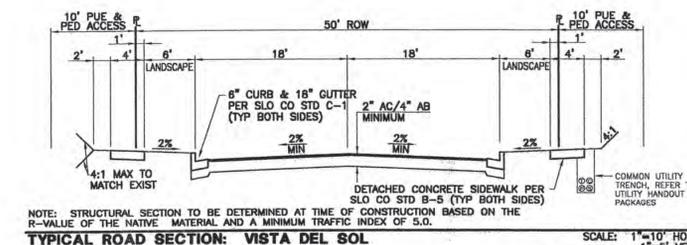
All PG&E conduits shown hereon this sheet shall be cleaned, new pull tape installed, and each conduit stub shall have a plug and end bell installed in accordance with PG&E specifications.

- DEMOLITION & PROTECTION NOTES:**
- SAWCUT TO COMPETENT A.C. AND/OR DEMOLISH AND REMOVE EXISTING A.C. PAVEMENT, LIMITS PER PLAN.
 - REMOVE AND SALVAGE EXISTING "STOP" SIGN. RELOCATE AS SHOWN ON PLANS OR REPLACE AS DIRECTED BY THE ENGINEER.
 - DEMOLISH AND REMOVE EXISTING FENCE, SEE GRADING PLANS.
 - DEMOLISH AND REMOVE EXISTING OVER SIDE DRAIN STRUCTURE INCLUDING PIPE, BROKEN CONCRETE, ETC.
 - REMOVE EXISTING SIGN (TYPE NOTED PER PLAN).
 - RELOCATE EXISTING SIGN BEHIND NEW CURB FACE (TYPE NOTED ON PLAN).
 - EXISTING TREE TO BE REMOVED (SIZE AND TYPE PER PLAN), SEE GRADING PLANS.

- ROAD CONSTRUCTION NOTES:**
- CONSTRUCT ASPHALT CONCRETE PAVEMENT ROAD SECTION PER STANDARD SECTION THIS SHEET.
 - CONSTRUCT 8" CONCRETE CURB & 18" CONCRETE GUTTER PER SAN LUIS OBISPO COUNTY STANDARD C-1.
 - CONSTRUCT 4" WIDE DETACHED CONCRETE SIDEWALK PER SAN LUIS OBISPO COUNTY STANDARD B-5.
 - CONSTRUCT CONCRETE CROSS GUTTER AND SPANDREL PER SAN LUIS OBISPO COUNTY STANDARD C-2.
 - CONSTRUCT CONCRETE CURB RAMP PER SAN LUIS OBISPO COUNTY STANDARD ABB, CASE "E".
 - CONSTRUCT 16" WIDE CONCRETE DRIVEWAY PER SAN LUIS OBISPO COUNTY STANDARD B-3.
 - CONSTRUCT STANDARD STREET MONUMENT PER DETAIL SAN LUIS OBISPO COUNTY STANDARD M-1.
 - CONSTRUCT WOOD ROAD BARRICADE PER SAN LUIS OBISPO COUNTY STANDARD M-4, "L" PER PLAN.
 - CONSTRUCT COMBINATION "STOP" SIGN AND ROAD NAME SIGN PER SAN LUIS OBISPO COUNTY STANDARD M-6. ROAD NAME SIGN SHALL BE WHITE LETTERS ON GREEN BACKGROUND AND CONFORM TO COUNTY STANDARDS.
 - CONSTRUCT PAVEMENT TRANSITION, LENGTH PER PLAN.
 - CONSTRUCT CONCRETE CURB RAMP PER SAN LUIS OBISPO COUNTY STANDARD ABB, CASE "D".
 - CONSTRUCT "STOP" SIGN ONLY PER SAN LUIS OBISPO COUNTY STANDARD M-6.
 - CONSTRUCT CONCRETE DRIVEWAY APRON PER SAN LUIS OBISPO COUNTY STANDARD B-3, WIDTH PER PLAN.
 - CONSTRUCT 6" ASPHALT CONCRETE DIKE PER SAN LUIS OBISPO COUNTY STANDARD C-1 (2" OR 4" AC DIKE AT GUARD RAIL LOCATIONS ON PLAN AND PER CALTRANS STD DWG A87, TYPE "T").
 - CONSTRUCT 4" WIDE ASPHALT CONCRETE SIDEWALK PER TYPICAL ROAD SECTION, THIS SHEET.
 - CONSTRUCT 16" WIDE ASPHALT CONCRETE DRIVEWAY PER SAN LUIS OBISPO COUNTY STANDARD B-4, MODIFIED WITH 4' WIDE ASPHALT CONCRETE SIDEWALK AT BACK OF APPROACH.
 - CONSTRUCT TEMPORARY WOOD RETAINING WALL PER DETAIL "C", SHEET D3.
 - CONSTRUCT NEW SPLIT RAIL (3 FDOT/2 RAIL) WOOD FENCE (THOLL FENCING, OR EQUAL) AT BACK OF TRAIL AND/OR 12" INSIDE TRACT BOUNDARY AS SHOWN ON PLAN.
 - CONSTRUCT NEW 8" CONCRETE CURB PER SAN LUIS OBISPO COUNTY STANDARD C-1, TYPE "C".
 - CONSTRUCT NEW METAL BEAM GUARD RAIL WITH 150x200mm WOOD POST & BLOCK, NARROW ROADWAY INSTALLATION, AND TYPE ET TERMINAL SYSTEM END TREATMENT (A77M) PER CALTRANS STANDARDS A77-SERIES AND SPECIFICATIONS (NOTE: 2" OR 4" TALL AC DIKE REQUIRED WHERE GUARD RAILS ARE SPECIFIED ON PLANS-SEE A77F).
 - "STOP" AND "LIMIT LINE" PER CALTRANS STANDARDS A24D & A24E.

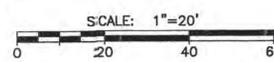
- DRAINAGE CONSTRUCTION NOTES:**
- REFER TO APPROVED GRADING PLANS AND GRADING PLAN ADDENDUM SHEETS FOR STORM DRAINAGE CONSTRUCTION INFORMATION. STORM DRAINAGE INFORMATION PRESENTED HEREIN IS FOR REFERENCE ONLY.
- NEW RCP CLASS 3 STORM DRAIN PER APPROVED GRADING PLANS, SIZE PER PLAN.
 - NEW STORM DRAIN CATCH BASIN (SAN LUIS OBISPO COUNTY STANDARD C-3) PER APPROVED GRADING PLANS.
 - NEW STORM DRAIN CATCH BASIN (CALTRANS TYPE "G00") PER APPROVED GRADING PLANS.
 - NEW ROCK SLOPE PROTECTION PER 2002 CALTRANS SPECIFICATIONS, FACING CLASS, METHOD "B" PLACEMENT, ROCK FIELD SIZE PER PLAN (LENGTHxWIDTHxDDEPTH).
 - CONSTRUCT OVER SIDE DRAIN PER DETAIL "A", SHEET D3.
 - NEW STORM DRAIN MANHOLE (APWA STD PLAN 320-0).
 - CONSTRUCT NEW CONCRETE SIDEWALK UNDER DRAIN PER DETAIL "D", SHEET D3 (W-2).
 - CONSTRUCT OVER SIDE DRAIN PER 2002 CALTRANS DB7A, TYPE 1 w/ TYPE A DIKE, 12" SD, "L" PER PLAN.
 - CONSTRUCT GROW DITCH PER DETAIL G3, SHEET D3.

- UTILITY CONSTRUCTION NOTES:**
- ALL WATER AND SEWER LINES AND APPURTENANCES SHALL BE INSTALLED AND TESTED PER THE LATEST EDITION OF THE HPIPAD COMMUNITY SERVICES DISTRICT (NCS) STANDARDS AND SPECIFICATIONS. THE INSTALLATION OF ALL GAS AND WIRE (CABLE, TELEPHONE, ELECTRIC, ETC.) UTILITIES SHALL BE COORDINATED WITH THE RESPECTIVE UTILITY COMPANY.
- CONSTRUCT PVC 800 WATERLINE PER NCS STANDARD W-8 AND SPECIFICATIONS (SIZE PER PLAN).
 - CONSTRUCT FIRE HYDRANT ASSEMBLY PER NCS STANDARD W-1.
 - CONSTRUCT WATER SERVICE CONNECTION PER NCS STANDARD W-4.
 - CONSTRUCT WATERLINE 1" AIR & VACUUM RELIEF ASSEMBLY PER NCS STANDARD W-5.
 - CONSTRUCT WATERLINE BLOW-OFF ASSEMBLY PER NCS STANDARD W-7.
 - CONSTRUCT WATERLINE VERTICAL BEND PER DETAIL "E", SHEET D3.
 - CONSTRUCT PRESSURE RELIEF VALVE ASSEMBLY PER DETAIL F, SHEET D3.
 - CONSTRUCT NEW PVC SDR35 SEWER LINE PER NCS STANDARD W-8 AND SPECIFICATIONS (SIZE PER PLAN).
 - CONSTRUCT NEW SEWER MANHOLE PER NCS STANDARDS S-1 & S-2.
 - CONSTRUCT NEW SEWER CLEAN OUT PER NCS STANDARD S-4.
 - CONSTRUCT NEW 4" PVC SDR35 SEWER LATERAL PER NCS STANDARD S-5.
 - NEW 4" SANITARY SEWER FORCE MAIN (SHOWN FOR REFERENCE ONLY, TO BE CONSTRUCTED UNDER SEPARATE DOCUMENT).
 - INSTALL ELECTRIC, TELEPHONE, & CATV UTILITY PULL AND SPLICE BOXES PER RESPECTIVE UTILITY COMPANY STANDARDS AND SPECIFICATIONS.
 - INSTALL NEW STREET LIGHT STANDARD PER DETAIL "B", SHEET D3.
 - COORDINATE NEW GAS LINE TRENCHING WITH THE GAS COMPANY PRIOR TO CONSTRUCTION.
 - CONSTRUCT GAS LINE SERVICE LATERAL, STUB AND CAP 3" INSIDE PROPERTY LINE.



CURVE TABLE

CURVE	LENGTH	RADIUS	TANGENT	DELTA
C155	578.05'	368.00'	368.00'	90°00'00"
C156	549.78'	350.00'	350.00'	90°00'00"
C157	521.50'	332.00'	332.00'	90°00'00"



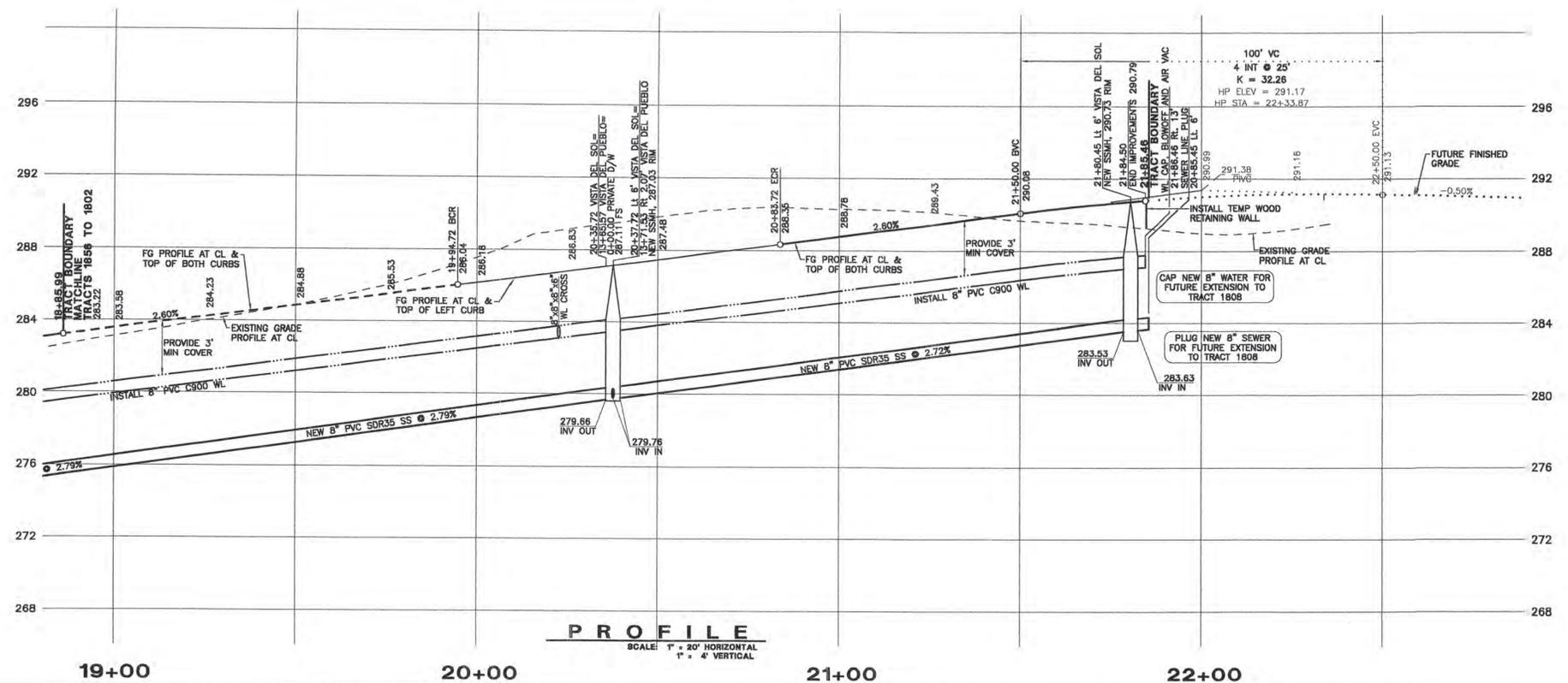
REVISIONS		APPROVED	
DATE	DESCRIPTION	DATE	DESCRIPTION

CALILAND ENGINEERING INC.
1918 S. GARFIELD AVE. SUITE 200
ALHAMBRA, CA. 91801
TEL: (626) 281-3288

PUBLIC IMPROVEMENT PLANS FOR TRACTS 1802 & 1856, MARIA VISTA ESTATES
VISTA DEL SOL: STA 17+00.00 TO 18+85.99

Design/Draw: **D.E. 5-3-04**
County Plan Check: **APPROVED FOR COUNTY REQUIREMENTS**
Job No.: **03-142**
County W.O. No.: **P11D374 & P11D511**
Development Services Engineer: **KEVIN Y LAI**
Date: **2-9-04**

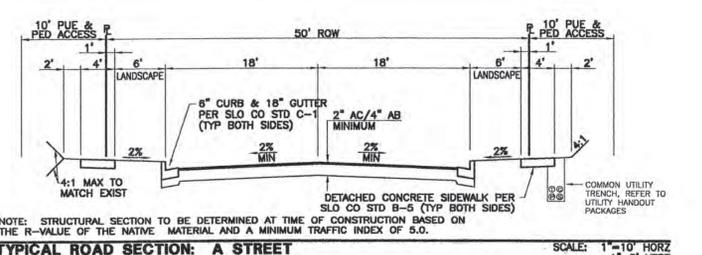
California Coordinates: **N 554 E 1264**
Sheet: **25 of 57 25**



- DEMOLITION & PROTECTION NOTES:**
- 1] SAWCUT TO COMPETENT A.C. AND/OR DEMOLISH AND REMOVE EXISTING A.C. PAVEMENT, LIMITS PER PLAN.
 - 2] REMOVE AND SALVAGE EXISTING "STOP" SIGN. RELOCATE AS SHOWN ON PLANS OR REPLACE AS DIRECTED BY THE ENGINEER.
 - 3] DEMOLISH AND REMOVE EXISTING FENCE, SEE GRADING PLANS.
 - 4] DEMOLISH AND REMOVE EXISTING OVER SIDE DRAIN STRUCTURE INCLUDING PIPE, BROKEN CONCRETE, ETC.
 - 5] REMOVE EXISTING SIGN (TYPE NOTED PER PLAN).
 - 6] RELOCATE EXISTING SIGN BEHIND NEW CURB FACE (TYPE NOTED ON PLAN).
 - 7] EXISTING TREE TO BE REMOVED (SIZE AND TYPE PER PLAN), SEE GRADING PLANS.
- ROAD CONSTRUCTION NOTES:**
- 1] CONSTRUCT ASPHALT PAVEMENT ROAD SECTION PER STANDARD SECTION THIS SHEET.
 - 2] CONSTRUCT 6" CONCRETE CURB & 18" CONCRETE GUTTER PER SAN LUIS OBISPO COUNTY STANDARD C-1.
 - 3] CONSTRUCT 4" WIDE DETACHED CONCRETE SIDEWALK PER SAN LUIS OBISPO COUNTY STANDARD B-5.
 - 4] CONSTRUCT CONCRETE CROSS GUTTER AND SPANDREL PER SAN LUIS OBISPO COUNTY STANDARD C-2.
 - 5] CONSTRUCT CONCRETE CURB RAMP PER SAN LUIS OBISPO COUNTY STANDARD ABB, CASE "E".
 - 6] CONSTRUCT 16" WIDE CONCRETE DRIVEWAY PER SAN LUIS OBISPO COUNTY STANDARD B-3.
 - 7] CONSTRUCT STANDARD STREET MONUMENT PER DETAIL SAN LUIS OBISPO COUNTY STANDARD M-1.
 - 8] CONSTRUCT WOOD ROAD BARRICADE PER SAN LUIS OBISPO COUNTY STANDARD M-4, "L" PER PLAN.
 - 9] CONSTRUCT COMBINATION "STOP" SIGN AND ROAD NAME SIGN PER SAN LUIS OBISPO COUNTY STANDARD M-6. ROAD NAME SIGN SHALL BE WHITE LETTERS ON GREEN BACKGROUND AND CONFORM TO COUNTY STANDARDS.
 - 10] CONSTRUCT CONCRETE CURB RAMP PER CALTRANS STANDARD A88A, CASE "F".
 - 11] CONSTRUCT ASPHALT DRIVEWAY PER SAN LUIS OBISPO COUNTY STANDARD B-3, WIDTH PER PLAN.
 - 12] CONSTRUCT CONCRETE DRIVEWAY APRON PER SAN LUIS OBISPO COUNTY STANDARD B-3, WIDTH PER PLAN.
 - 13] CONSTRUCT 6" ASPHALT CONCRETE DIKE PER SAN LUIS OBISPO COUNTY STANDARD C-1 (2" OR 4" AC DIKE AT GUARD RAIL LOCATIONS ON PLAN AND PER CALTRANS STD DWG A87, TYPE "T").
 - 14] CONSTRUCT 4" WIDE ASPHALT CONCRETE SIDEWALK PER TYPICAL ROAD SECTION, THIS SHEET.
 - 15] CONSTRUCT 16" WIDE ASPHALT CONCRETE DRIVEWAY PER SAN LUIS OBISPO COUNTY STANDARD B-4, MODIFIED WITH 4" WIDE ASPHALT CONCRETE SIDEWALK AT BACK OF APPROACH.
 - 16] CONSTRUCT TEMPORARY WOOD RETAINING WALL PER DETAIL "C", SHEET D3.
 - 17] CONSTRUCT NEW SPLIT RAIL (3 FOOT/2 RAIL) WOOD FENCE (HOLL FENCING, OR EQUAL) AT BACK OF TRAIL AND/OR 12" INSIDE TRACT BOUNDARY AS SHOWN ON PLAN.
 - 18] CONSTRUCT NEW 6" CONCRETE CURB PER SAN LUIS OBISPO COUNTY STANDARD C-1, TYPE "C".
 - 19] CONSTRUCT NEW METAL BEAM GUARD RAIL WITH 150x200mm WOOD POST & BLOCK, NARROW ROADWAY INSTALLATION, AND TYPE ET TERMINAL SYSTEM END TREATMENT (A770) PER CALTRANS STANDARDS A77-SERIES AND SPECIFICATIONS (NOTE 2" OR 4" TALL AC DIKE REQUIRED WHERE GUARD RAILS ARE SPECIFIED ON PLANS-SEE A777).
 - 20] "STOP" AND "LIMIT LINE" PER CALTRANS STANDARDS A240 & A24E.

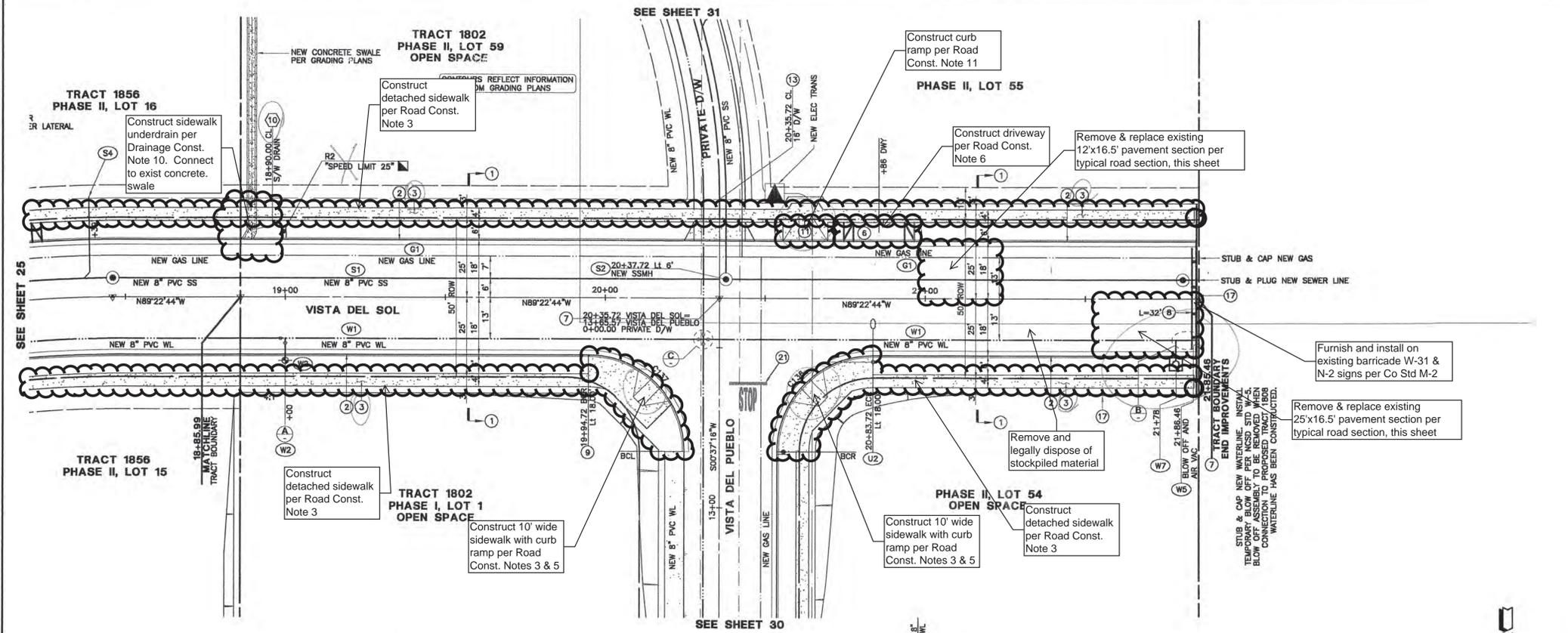
- DRAINAGE CONSTRUCTION NOTES:**
- REFER TO APPROVED GRADING PLANS AND GRADING PLAN ADDENDUM SHEETS FOR STORM DRAINAGE CONSTRUCTION INFORMATION. STORM DRAINAGE INFORMATION PRESENTED HEREIN IS FOR REFERENCE ONLY.
- 1] NEW RCP CLASS 3 STORM DRAIN PER APPROVED GRADING PLANS, SIZE PER PLAN.
 - 2] NEW STORM DRAIN CATCH BASIN (SAN LUIS OBISPO COUNTY STANDARD C-3) PER APPROVED GRADING PLANS.
 - 3] NEW STORM DRAIN CATCH BASIN (CALTRANS TYPE "GDD") PER APPROVED GRADING PLANS.
 - 4] NEW ROCK SLOPE PROTECTION PER 2002 CALTRANS SPECIFICATIONS, FACING CLASS, METHOD "B" PLACEMENT, ROCK FIELD SIZE PER PLAN (LENGTHxWIDTHxDEPTH).
 - 5] CONSTRUCT OVER SIDE DRAIN PER DETAIL "A", SHEET D3.
 - 6] NEW STORM DRAIN MANHOLE (APWA STD PLAN 320-0).
 - 7] CONSTRUCT NEW CONCRETE SIDEWALK UNDER DRAIN PER DETAIL "D", SHEET D3 (W=2).
 - 8] CONSTRUCT OVER SIDE DRAIN PER 2002 CALTRANS D87A, TYPE 1 W/ TYPE A DIKE, 12" SD, "L" PER PLAN.
 - 9] CONSTRUCT BROW DITCH PER DETAIL G3, SHEET D3.

- UTILITY CONSTRUCTION NOTES:**
- ALL WATER AND SEWER LINES AND APPURTENANCES SHALL BE INSTALLED AND TESTED PER THE LATEST EDITION OF THE MPMO COMMUNITY SERVICES DISTRICT (MCD) STANDARDS. THE INSTALLATION OF ALL GAS AND WIRE (CABLE, TELEPHONE, ELECTRIC, ETC.) UTILITIES SHALL BE COORDINATED WITH THE RESPECTIVE UTILITY COMPANY.
- W1] CONSTRUCT PVC C900 WATERLINE PER NCSD STANDARD W-8 AND SPECIFICATIONS (SIZE PER PLAN).
 - W2] CONSTRUCT FIRE HYDRANT ASSEMBLY PER NCSD STANDARD W-1.
 - W3] CONSTRUCT WATER SERVICE CONNECTION PER NCSD STANDARD W-4.
 - W4] CONSTRUCT WATERLINE 1" AIR & VACUUM RELIEF ASSEMBLY PER NCSD STANDARD W-5.
 - W5] CONSTRUCT WATERLINE BLOW-OFF ASSEMBLY PER NCSD STANDARD W-7.
 - W6] CONSTRUCT WATERLINE VERTICAL BEND PER DETAIL "E", SHEET D3.
 - W7] CONSTRUCT PRESSURE RELIEF VALVE ASSEMBLY PER DETAIL F, SHEET D3.
 - S1] CONSTRUCT NEW PVC SDR35 SEWER LINE PER NCSD STANDARD W-8 AND SPECIFICATIONS (SIZE PER PLAN).
 - S2] CONSTRUCT NEW SEWER MANHOLE PER NCSD STANDARDS S-1 & S-2.
 - S3] CONSTRUCT NEW SEWER CLEAN OUT PER NCSD STANDARD S-4.
 - S4] CONSTRUCT NEW 4" PVC SDR35 SEWER LATERAL PER NCSD STANDARD S-5.
 - S5] NEW 4" SANITARY SEWER FORCE MAIN (SHOWN FOR REFERENCE ONLY, TO BE CONSTRUCTED UNDER SEPARATE DOCUMENT).
 - U1] INSTALL ELECTRIC, TELEPHONE, & CATV UTILITY PULL AND SPLICE BOXES PER RESPECTIVE UTILITY COMPANY STANDARDS AND SPECIFICATIONS.
 - U2] INSTALL NEW STREET LIGHT STANDARD PER DETAIL "B", SHEET D3.
 - G1] COORDINATE NEW GAS LINE TRENCHING WITH THE GAS COMPANY PRIOR TO CONSTRUCTION.
 - G2] CONSTRUCT GAS LINE SERVICE LATERAL, STUB AND CAP 3" INSIDE PROPERTY LINE.



NOTE: STRUCTURAL SECTION TO BE DETERMINED AT TIME OF CONSTRUCTION BASED ON THE R-VALUE OF THE NATIVE MATERIAL AND A MINIMUM TRAFFIC INDEX OF 5.0.

TYPICAL ROAD SECTION: A STREET SCALE: 1"=10' HORIZ 1"=5' VERT



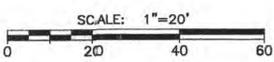
CURVE TABLE

CURVE	LENGTH	RADIUS	TANGENT	DELTA
C136	47.12'	30.00'	30.00'	90°00'00"
C137	47.12'	30.00'	30.00'	90°00'00"

(A) WATERLINE FIRE HYDRANT ASSEMBLY

(B) WATERLINE CAP DETAIL

(C) WATERLINE CROSS DETAIL



DATE	REVISIONS	DESCRIPTION	APPROVED

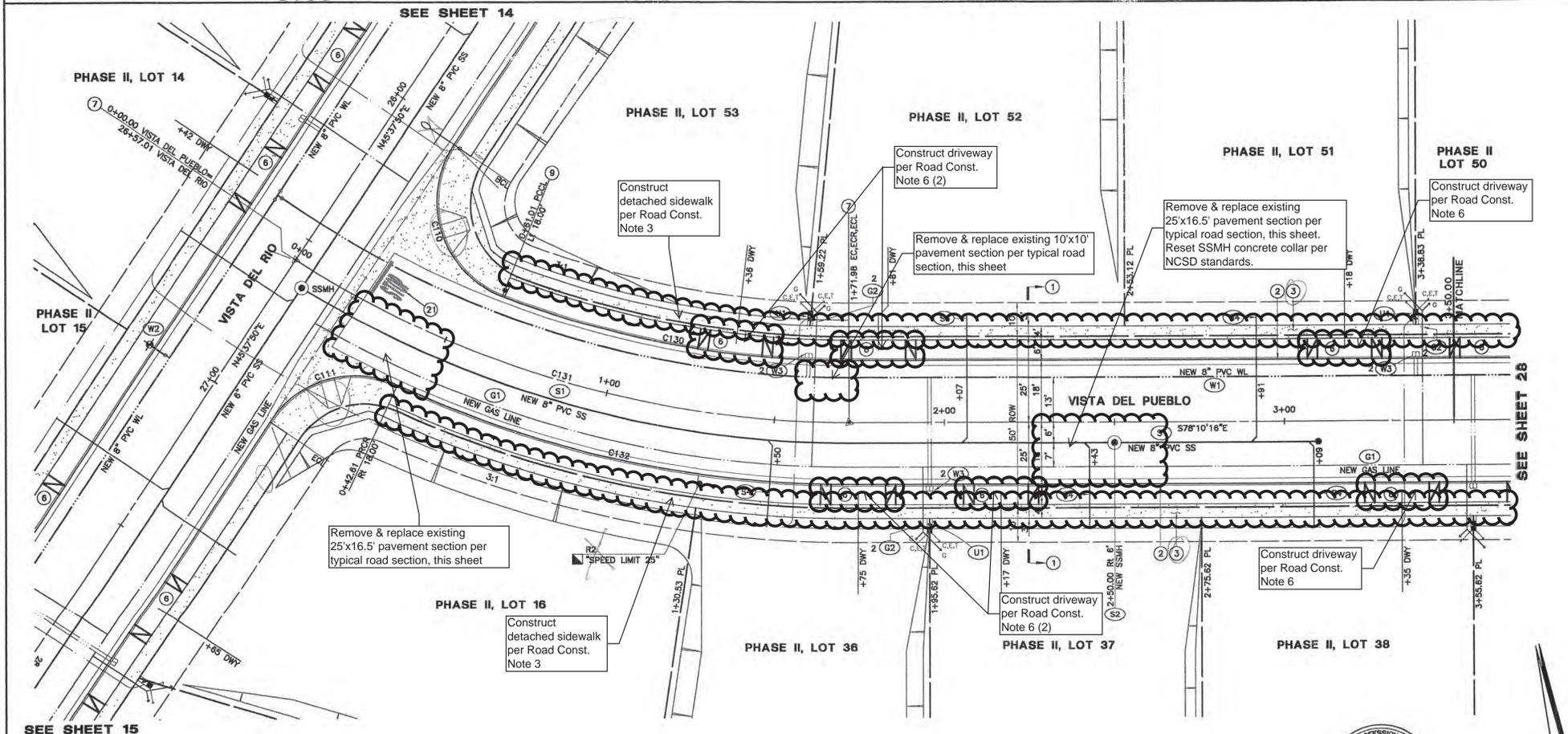
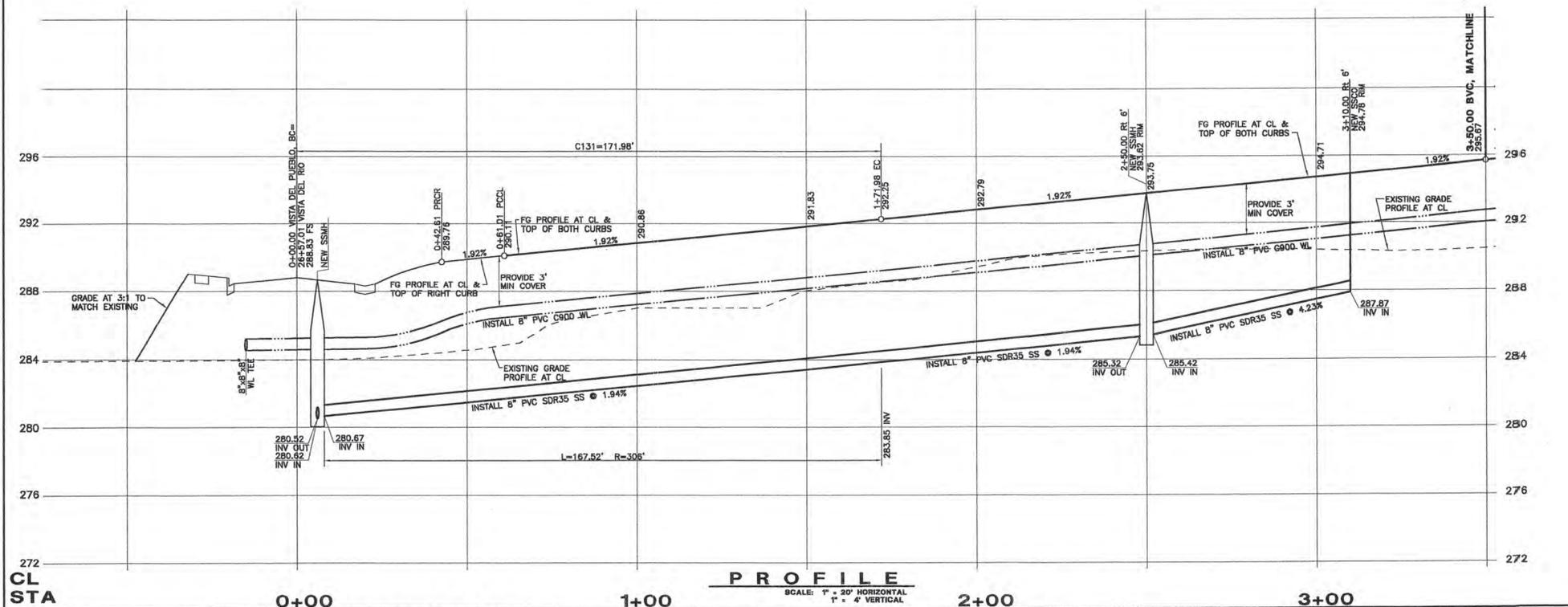
CALLILAND ENGINEERING INC.
1218 S. GARFIELD AVE. SUITE 200
ALHAMBRA, CA 91803
TEL: (626) 281-2268

PUBLIC IMPROVEMENT PLANS FOR
TRACTS 1802 & 1856, MARIA VISTA ESTATES
VISTA DEL SOL: STA 18+85.99 TO 21+85.46

Design/Draw: **0.5**
5-3-04
Development Services Engineer

Job No: **03-142**
County W.O. No: **P11D374 & P11D511**
Date: _____

FILE DATA: California Coordinates **N 554 E 1264** Sheet **26 of 57 26**



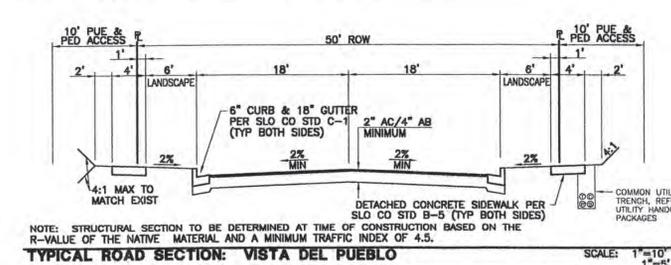
CURVE	LENGTH	RADIUS	TANGENT	DELTA
C110	53.72'	30.00'	37.45'	102°36'23"
C111	42.36'	30.00'	25.58'	80°54'23"
C130	104.32'	282.00'	52.76'	21°11'43"
C131	171.98'	300.00'	88.43'	32°50'48"
C132	137.12'	318.00'	69.85'	24°42'29"

- DEMOLITION & PROTECTION NOTES:**
- 1 SAWCUT TO COMPETENT A.C. AND/OR DEMOLISH AND REMOVE EXISTING A.C. PAVEMENT, LIMITS PER PLAN.
 - 2 REMOVE AND SALVAGE EXISTING "STOP" SIGN. RELOCATE AS SHOWN ON PLANS OR REPLACE AS DIRECTED BY THE ENGINEER.
 - 3 DEMOLISH AND REMOVE EXISTING FENCE, SEE GRADING PLANS.
 - 4 DEMOLISH AND REMOVE EXISTING OVER SIDE DRAIN STRUCTURE INCLUDING PIPE, BROKEN CONCRETE, ETC.
 - 5 REMOVE EXISTING SIGN (TYPE NOTED PER PLAN).
 - 6 RELOCATE EXISTING SIGN BEHIND NEW CURB FACE (TYPE NOTED ON PLAN).
 - 7 EXISTING TREE TO BE REMOVED (SIZE AND TYPE PER PLAN), SEE GRADING PLANS.

- ROAD CONSTRUCTION NOTES:**
- 1 CONSTRUCT ASPHALT CONCRETE PAVEMENT ROAD SECTION PER STANDARD SECTION THIS SHEET.
 - 2 CONSTRUCT 6" CONCRETE CURB & 18" CONCRETE GUTTER PER SAN LUIS OBISPO COUNTY STANDARD C-1.
 - 3 CONSTRUCT 4" WIDE DETACHED CONCRETE SIDEWALK PER SAN LUIS OBISPO COUNTY STANDARD B-5.
 - 4 CONSTRUCT CONCRETE CROSS GUTTER AND SPANDREL PER SAN LUIS OBISPO COUNTY STANDARD C-2.
 - 5 CONSTRUCT CONCRETE CURB RAMP PER SAN LUIS OBISPO COUNTY STANDARD ABB, CASE "E".
 - 6 CONSTRUCT 18" WIDE CONCRETE DRIVEWAY PER SAN LUIS OBISPO COUNTY STANDARD B-3.
 - 7 CONSTRUCT STANDARD STREET MONUMENT PER DETAIL SAN LUIS OBISPO COUNTY STANDARD M-1.
 - 8 CONSTRUCT WOOD ROAD BARRICADE PER SAN LUIS OBISPO COUNTY STANDARD M-4, "L" PER PLAN.
 - 9 CONSTRUCT COMBINATION "STOP" SIGN AND ROAD NAME SIGN PER SAN LUIS OBISPO COUNTY STANDARD M-8. ROAD NAME SIGN SHALL BE WHITE LETTERS ON GREEN BACKGROUND AND CONFORM TO COUNTY STANDARDS.
 - 10 CONSTRUCT PAVEMENT TRANSITION, LENGTH PER PLAN.
 - 11 CONSTRUCT CONCRETE CURB RAMP PER SAN LUIS OBISPO COUNTY STANDARD ABB, CASE "D".
 - 12 CONSTRUCT "STOP" SIGN ONLY PER SAN LUIS OBISPO COUNTY STANDARD M-6.
 - 13 CONSTRUCT CONCRETE DRIVEWAY APRON PER SAN LUIS OBISPO COUNTY STANDARD B-3, WIDTH PER PLAN.
 - 14 CONSTRUCT 6" ASPHALT CONCRETE DIKE PER SAN LUIS OBISPO COUNTY STANDARD C-1 (2" OR 4" AC DIKE AT GUARD RAIL LOCATIONS ON PLAN AND PER CALTRANS STD DWG A87, TYPE "7").
 - 15 CONSTRUCT 4" WIDE ASPHALT CONCRETE SIDEWALK PER TYPICAL ROAD SECTION, THIS SHEET.
 - 16 CONSTRUCT 18" WIDE ASPHALT CONCRETE DRIVEWAY PER SAN LUIS OBISPO COUNTY STANDARD B-4, MODIFIED WITH 4" WIDE ASPHALT CONCRETE SIDEWALK AT BACK OF APPROACH.
 - 17 CONSTRUCT TEMPORARY WOOD RETAINING WALL PER DETAIL "C", SHEET D3.
 - 18 CONSTRUCT NEW SPLIT RAIL (3 FOOT/2 RAIL) WOOD FENCE (HOLL FENCING, OR EQUAL) AT BACK OF TRAIL AND/OR 12" INSIDE TRACT BOUNDARY AS SHOWN ON PLAN.
 - 19 CONSTRUCT NEW 6" CONCRETE CURB PER SAN LUIS OBISPO COUNTY STANDARD C-1, TYPE "C".
 - 20 CONSTRUCT NEW METAL BEAM GUARD RAIL WITH 150x200mm WOOD POST & BLOCK, NARROW ROADWAY INSTALLATION, AND TYPE ET TERMINAL SYSTEM END TREATMENT (A77M) PER CALTRANS STANDARDS A77-SERIES AND SPECIFICATIONS (NOTE: 2" OR 4" TALL AC DIKE REQUIRED WHERE GUARD RAILS ARE SPECIFIED ON PLANS-SEE A77F).
 - 21 "STOP" AND "LIMIT LINE" PER CALTRANS STANDARDS A24D & A24E.

- DRAINAGE CONSTRUCTION NOTES:**
- REFER TO APPROVED GRADING PLANS AND GRADING PLAN ADDENDUM SHEETS FOR STORM DRAINAGE CONSTRUCTION INFORMATION. STORM DRAINAGE INFORMATION PRESENTED HEREIN IS FOR REFERENCE ONLY.
- 1 NEW RCP CLASS 3 STORM DRAIN PER APPROVED GRADING PLANS, SIZE PER PLAN.
 - 2 NEW STORM DRAIN CATCH BASIN (SAN LUIS OBISPO COUNTY STANDARD C-3) PER APPROVED GRADING PLANS.
 - 3 NEW STORM DRAIN CATCH BASIN (CALTRANS TYPE "GDD") PER APPROVED GRADING PLANS.
 - 4 NEW ROCK SLOPE PROTECTION PER 2002 CALTRANS SPECIFICATIONS, FACING CLASS, METHOD "B" PLACEMENT, ROCK FIELD SIZE PER PLAN (LENGTHxWIDTHxDEPTH).
 - 5 CONSTRUCT OVER SIDE DRAIN PER DETAIL "A", SHEET D3.
 - 6 NEW STORM DRAIN MANHOLE (APHA STD PLAN 320-0).
 - 7 CONSTRUCT NEW CONCRETE SIDEWALK UNDER DRAIN PER DETAIL "D", SHEET D3 (W=2').
 - 8 CONSTRUCT OVER SIDE DRAIN PER 2002 CALTRANS D67A, TYPE 1 W/ TYPE A DIKE, 12" SD, "L" PER PLAN.
 - 9 CONSTRUCT BROW DITCH PER DETAIL G3, SHEET D3

- UTILITY CONSTRUCTION NOTES:**
- ALL WATER AND SEWER LINES AND APPURTENANCES SHALL BE INSTALLED AND TESTED PER THE LATEST EDITION OF THE NIPOMO COMMUNITY SERVICES DISTRICT (NCSO) STANDARDS AND SPECIFICATIONS. THE INSTALLATION OF ALL GAS AND WIRE (CABLE, TELEPHONE, ELECTRIC, ETC.) UTILITIES SHALL BE COORDINATED WITH THE RESPECTIVE UTILITY COMPANY.
- 10 CONSTRUCT PVC C900 WATERLINE PER NCSO STANDARD W-8 AND SPECIFICATIONS (SIZE PER PLAN).
 - 11 CONSTRUCT FIRE HYDRANT ASSEMBLY PER NCSO STANDARD W-1.
 - 12 CONSTRUCT WATER SERVICE CONNECTION PER NCSO STANDARD W-4.
 - 13 CONSTRUCT WATERLINE 1" AIR & VACUUM RELIEF ASSEMBLY PER NCSO STANDARD W-5.
 - 14 CONSTRUCT WATERLINE BLOW-OFF ASSEMBLY PER NCSO STANDARD W-7.
 - 15 CONSTRUCT WATERLINE VERTICAL BEND PER DETAIL "E", SHEET D3.
 - 16 CONSTRUCT PRESSURE RELIEF VALVE ASSEMBLY PER DETAIL F, SHEET D3.
 - 17 CONSTRUCT NEW PVC SDR35 SEWER LINE PER NCSO STANDARD W-8 AND SPECIFICATIONS (SIZE PER PLAN).
 - 18 CONSTRUCT NEW SEWER MANHOLE PER NCSO STANDARDS S-1 & S-2.
 - 19 CONSTRUCT NEW SEWER CLEAN OUT PER NCSO STANDARD S-4.
 - 20 CONSTRUCT NEW 4" PVC SDR35 SEWER LATERAL PER NCSO STANDARD S-5.
 - 21 NEW 4" SANITARY SEWER FORCE MAIN (SHOWN FOR REFERENCE ONLY, TO BE CONSTRUCTED UNDER SEPARATE DOCUMENT).
 - 22 INSTALL ELECTRIC, TELEPHONE, & CATV UTILITY PULL AND SPLICE BOXES PER RESPECTIVE UTILITY COMPANY STANDARDS AND SPECIFICATIONS.
 - 23 INSTALL NEW STREET LIGHT STANDARD PER DETAIL "B", SHEET D3.
 - 24 COORDINATE NEW GAS LINE TRENCHING WITH THE GAS COMPANY PRIOR TO CONSTRUCTION.
 - 25 CONSTRUCT GAS & LINE SERVICE LATERAL, STUB AND CAP 3' INSIDE PROPERTY LINE.



TYPICAL ROAD SECTION: VISTA DEL PUEBLO

SCALE: 1"=10' HORIZ
1"=5' VERT

REVISIONS	DATE	DESCRIPTION	APPROV

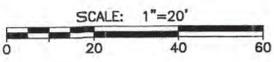
CALILAND ENGINEERING INC. 1216 S. GARFIELD AVE., SUITE 200 ALHAMBRA, CA 91801 TEL: (626) 281-2288

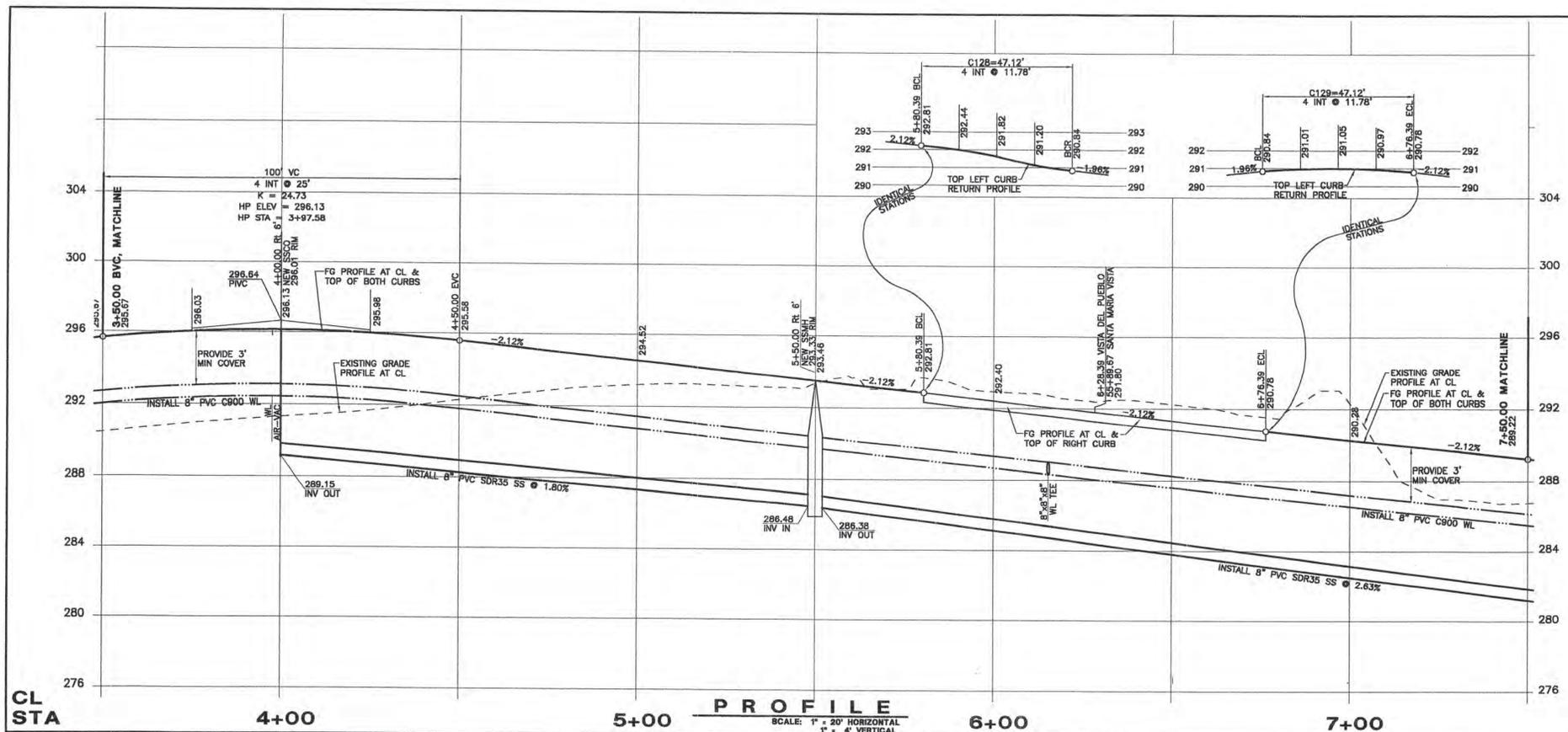
PUBLIC IMPROVEMENT PLANS FOR TRACTS 1802 & 1856, MARIA VISTA ESTATES VISTA DEL PUEBLO: STA 0+00 TO 3+50

Design/Drawn: O.E. 5-3-04 County Plan Check: APPROVED FOR COUNTY REQUIREMENTS

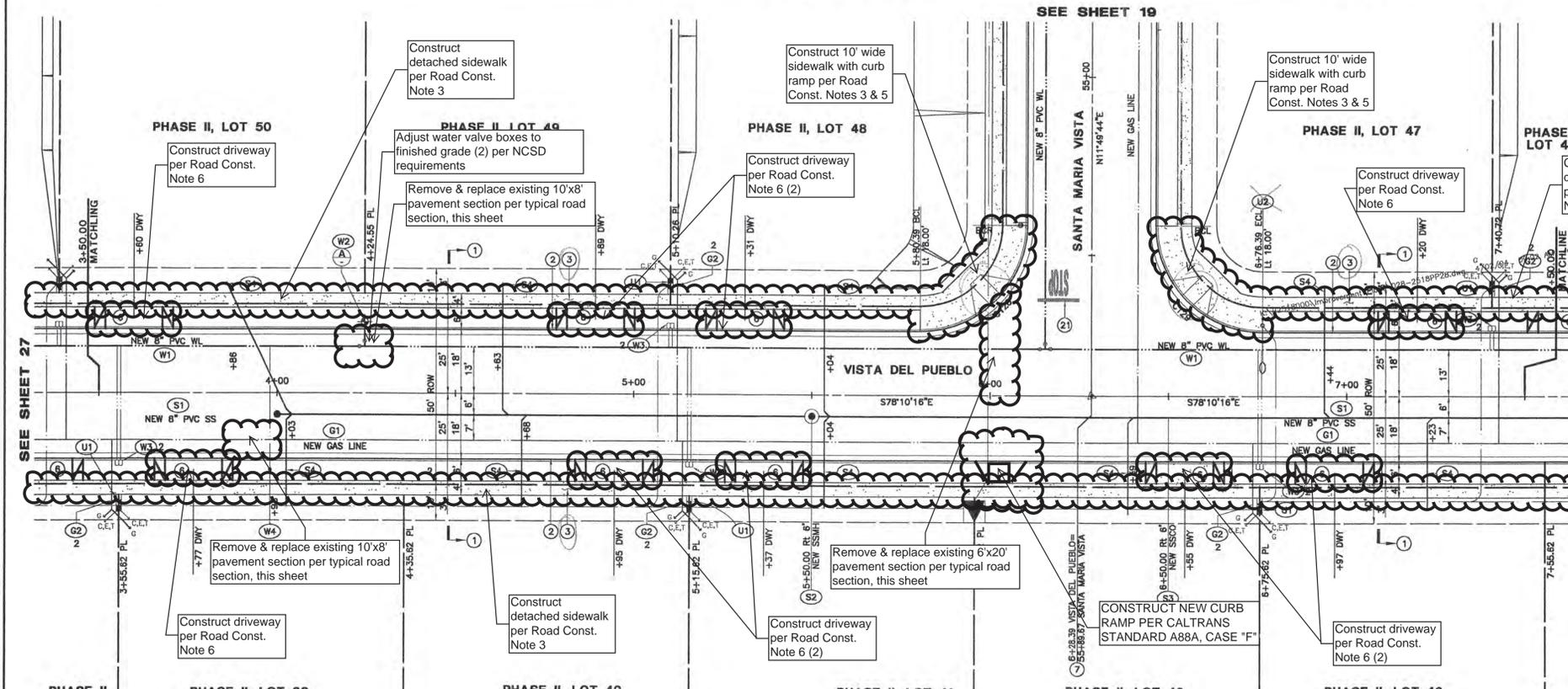
Job No. 03-142 County W.O. No. P11D374 & P11D511 Development Services Engineer: KEVIN Y LAI Date: 4-9-04

FILE DATA: California Coordinates N 554 E 1264 Sheet 27 of 57 27





CL STA 4+00 5+00 6+00 7+00 PROFILE SCALE: 1" = 20' HORIZONTAL 1" = 4' VERTICAL



CURVE TABLE			
CURVE	LENGTH	RADIUS	DELTA
C128	47.12'	30.00'	90°00'00"
C129	47.12'	30.00'	90°00'00"

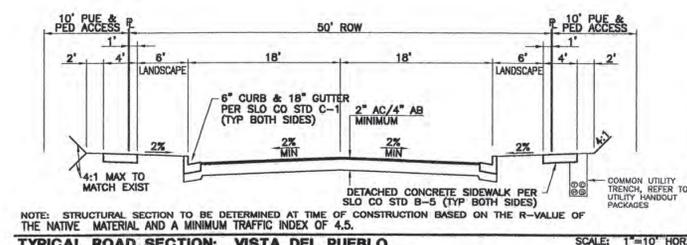


- DEMOLITION & PROTECTION NOTES:**
- 1 SAWCUT TO COMPETENT A.C. AND/OR DEMOLISH AND REMOVE EXISTING A.C. PAVEMENT, LIMITS PER PLAN.
 - 2 REMOVE AND SALVAGE EXISTING "STOP" SIGN. RELOCATE AS SHOWN ON PLANS OR REPLACE AS DIRECTED BY THE ENGINEER.
 - 3 DEMOLISH AND REMOVE EXISTING FENCE, SEE GRADING PLANS.
 - 4 DEMOLISH AND REMOVE EXISTING OVER SIDE DRAIN STRUCTURE INCLUDING PIPE, BROKEN CONCRETE, ETC.
 - 5 REMOVE EXISTING SIGN (TYPE NOTED PER PLAN).
 - 6 RELOCATE EXISTING SIGN BEHIND NEW CURB FACE (TYPE NOTED ON PLAN).
 - 7 EXISTING TREE TO BE REMOVED (SIZE AND TYPE PER PLAN), SEE GRADING PLANS.

- ROAD CONSTRUCTION NOTES:**
- 1 CONSTRUCT ASPHALT CONCRETE PAVEMENT ROAD SECTION PER STANDARD SECTION THIS SHEET.
 - 2 CONSTRUCT 6" CONCRETE CURB & 18" CONCRETE GUTTER PER SAN LUIS OBISPO COUNTY STANDARD C-1.
 - 3 CONSTRUCT 4" WIDE DETACHED CONCRETE SIDEWALK PER SAN LUIS OBISPO COUNTY STANDARD B-5.
 - 4 CONSTRUCT CONCRETE CROSS GUTTER AND SPANDREL PER SAN LUIS OBISPO COUNTY STANDARD C-2.
 - 5 CONSTRUCT CONCRETE CURB RAMP PER SAN LUIS OBISPO COUNTY STANDARD ABS, CASE "E".
 - 6 CONSTRUCT 16" WIDE CONCRETE DRIVEWAY PER SAN LUIS OBISPO COUNTY STANDARD B-3.
 - 7 CONSTRUCT STANDARD STREET MONUMENT PER DETAIL SAN LUIS OBISPO COUNTY STANDARD M-1.
 - 8 CONSTRUCT WOOD ROAD BARRICADE PER SAN LUIS OBISPO COUNTY STANDARD M-4, "L" PER PLAN.
 - 9 CONSTRUCT COMBINATION "STOP" SIGN AND ROAD NAME SIGN PER SAN LUIS OBISPO COUNTY STANDARD M-6. ROAD NAME SIGN SHALL BE WHITE LETTERS ON GREEN BACKGROUND AND CONFORM TO COUNTY STANDARDS.
 - 10 CONSTRUCT PAVEMENT TRANSITION, LENGTH PER PLAN.
 - 11 CONSTRUCT CONCRETE CURB RAMP PER SAN LUIS OBISPO COUNTY STANDARD ABS, CASE "D".
 - 12 CONSTRUCT "STOP" SIGN ONLY PER SAN LUIS OBISPO COUNTY STANDARD M-6.
 - 13 CONSTRUCT CONCRETE DRIVEWAY APRON PER SAN LUIS OBISPO COUNTY STANDARD B-3, WIDTH PER PLAN.
 - 14 CONSTRUCT 6" ASPHALT CONCRETE DIKE PER SAN LUIS OBISPO COUNTY STANDARD C-1 (2" OR 4" AC DIKE AT GUARD RAIL LOCATIONS ON PLAN AND PER CALTRANS STD DWG A87, TYPE "F").
 - 15 CONSTRUCT 4" WIDE ASPHALT CONCRETE SIDEWALK PER TYPICAL ROAD SECTION, THIS SHEET.
 - 16 CONSTRUCT 16" WIDE ASPHALT CONCRETE DRIVEWAY PER SAN LUIS OBISPO COUNTY STANDARD B-4, MODIFIED WITH 4" WIDE ASPHALT CONCRETE SIDEWALK AT BACK OF APPROACH.
 - 17 CONSTRUCT TEMPORARY WOOD RETAINING WALL PER DETAIL "D", SHEET D3.
 - 18 CONSTRUCT NEW SPLIT RAIL (3 FOOT/2 RAIL) WOOD FENCE (HOLL FENCING, OR EQUAL) AT BACK OF TRAIL AND/OR 12" INSIDE TRACT BOUNDARY AS SHOWN ON PLAN.
 - 19 CONSTRUCT NEW 6" CONCRETE CURB PER SAN LUIS OBISPO COUNTY STANDARD C-1, TYPE "C".
 - 20 CONSTRUCT NEW METAL BEAM GUARD RAIL WITH 150x200mm WOOD POST & BLOCK, NARROW ROADWAY INSTALLATION, AND TYPE ET TERMINAL SYSTEM END TREATMENT (A77M) PER CALTRANS STANDARDS A77-SERIES AND SPECIFICATIONS (NOTE: 2" OR 4" TALL AC DIKE REQUIRED WHERE GUARD RAILS ARE SPECIFIED ON PLANS-SEE A77F).
 - 21 "STOP" AND "LIMIT LINE" PER CALTRANS STANDARDS A240 & A24E.

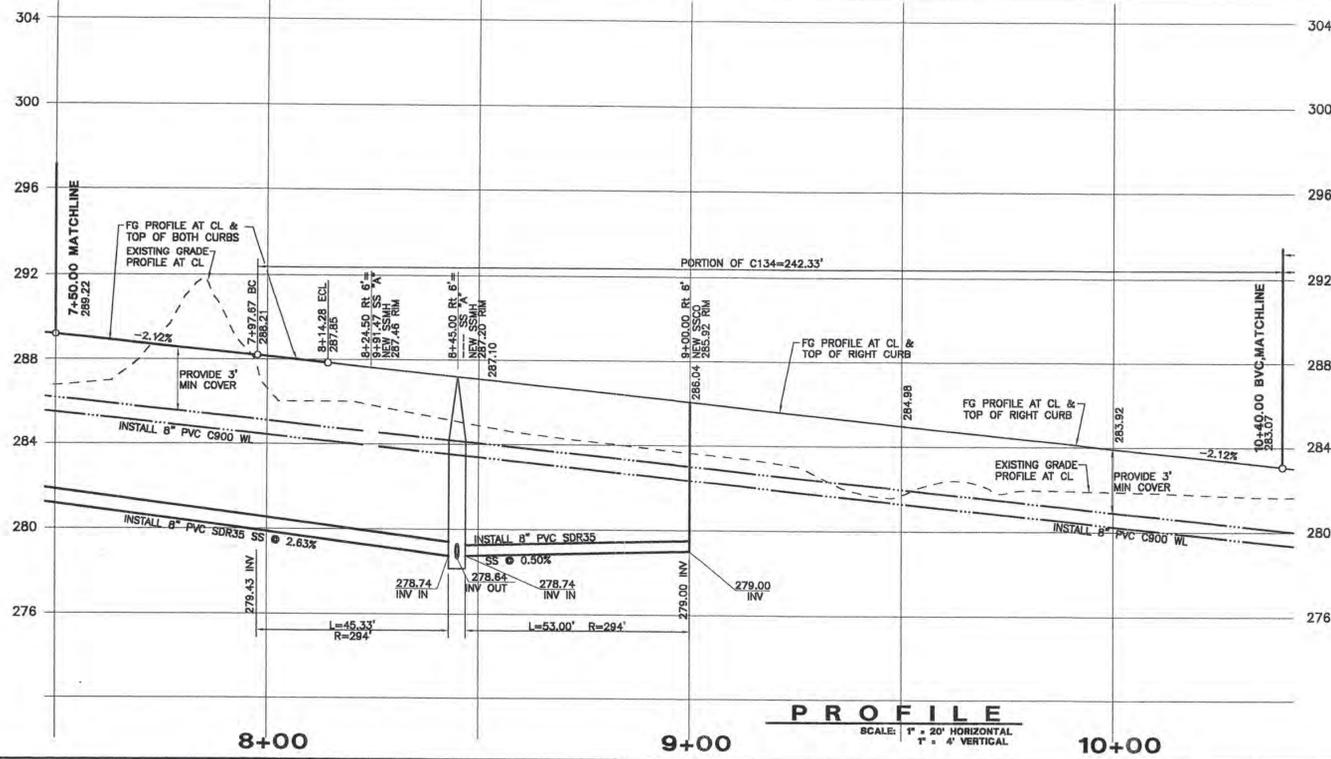
- DRAINAGE CONSTRUCTION NOTES:**
- REFER TO APPROVED GRADING PLANS AND GRADING PLAN ADDENDUM SHEETS FOR STORM DRAINAGE CONSTRUCTION INFORMATION. STORM DRAINAGE INFORMATION PRESENTED HEREIN IS FOR REFERENCE ONLY.
- 1 NEW RCP CLASS 3 STORM DRAIN PER APPROVED GRADING PLANS, SIZE PER PLAN.
 - 2 NEW STORM DRAIN CATCH BASIN (SAN LUIS OBISPO COUNTY STANDARD C-3) PER APPROVED GRADING PLANS.
 - 3 NEW STORM DRAIN CATCH BASIN (CALTRANS TYPE "DGO") PER APPROVED GRADING PLANS.
 - 4 NEW ROCK SLOPE PROTECTION PER 2002 CALTRANS SPECIFICATIONS, FACING CLASS, METHOD "B" PLACEMENT, ROCK FIELD SIZE PER PLAN (LENGTHxWIDTHxDEPTH).
 - 5 CONSTRUCT OVER SIDE DRAIN PER DETAIL "A", SHEET D3.
 - 6 NEW STORM DRAIN MANHOLE (APWA STD PLAN 320-0).
 - 7 CONSTRUCT NEW CONCRETE SIDEWALK UNDER DRAIN PER DETAIL "D", SHEET D3 (W=2').
 - 8 CONSTRUCT OVER SIDE DRAIN PER 2002 CALTRANS D87A, TYPE 1 w/ TYPE A DIKE, 12" SD, "L" PER PLAN.
 - 9 CONSTRUCT BROW DITCH PER DETAIL G3, SHEET D3.

- UTILITY CONSTRUCTION NOTES:**
- ALL WATER AND SEWER LINES AND APPURTENANCES SHALL BE INSTALLED AND TESTED PER THE LATEST EDITION OF THE NIPOMO COMMUNITY SERVICES DISTRICT (NCS) STANDARDS AND SPECIFICATIONS. THE INSTALLATION OF ALL GAS AND WIRE (CABLE, TELEPHONE, ELECTRIC, ETC.) UTILITIES SHALL BE COORDINATED WITH THE RESPECTIVE UTILITY COMPANY.
- W1 CONSTRUCT PVC C900 WATERLINE PER NCS STANDARD W-8 AND SPECIFICATIONS (SIZE PER PLAN).
 - W2 CONSTRUCT FIRE HYDRANT ASSEMBLY PER NCS STANDARD W-1.
 - W3 CONSTRUCT WATER SERVICE CONNECTION PER NCS STANDARD W-4.
 - W4 CONSTRUCT WATERLINE 1" AIR & VACUUM RELIEF ASSEMBLY PER NCS STANDARD W-5.
 - W5 CONSTRUCT WATERLINE BLOW-OFF ASSEMBLY PER NCS STANDARD W-7.
 - W6 CONSTRUCT WATERLINE VERTICAL BEND PER DETAIL "E", SHEET D3.
 - W7 CONSTRUCT PRESSURE RELIEF VALVE ASSEMBLY PER DETAIL F, SHEET D3.
 - S1 CONSTRUCT NEW PVC SDR35 SEWER LINE PER NCS STANDARD W-8 AND SPECIFICATIONS (SIZE PER PLAN).
 - S2 CONSTRUCT NEW SEWER MANHOLE PER NCS STANDARDS S-1 & S-2.
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 - U2 INSTALL NEW STREET LIGHT STANDARD PER DETAIL "B", SHEET D3.
 - G1 COORDINATE NEW GAS LINE TRENCHING WITH THE GAS COMPANY PRIOR TO CONSTRUCTION.
 - G2 CONSTRUCT GAS LINE SERVICE LATERAL, STUB AND CAP 3' INSIDE PROPERTY LINE.



REVISIONS		DATE		DESCRIPTION		APPROVED	

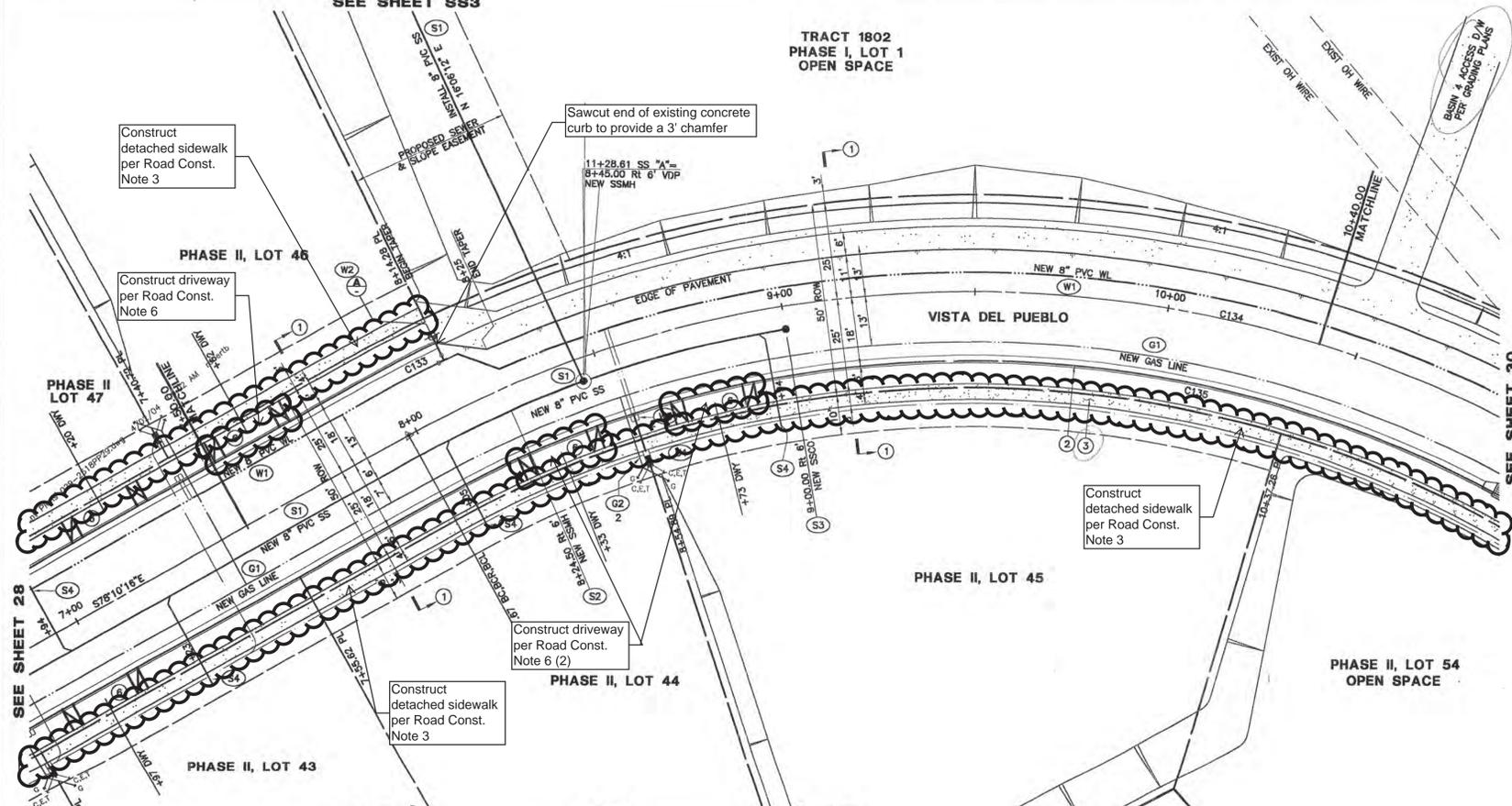
CALILAND ENGINEERING INC.		1218 S. GARFIELD AVE. SUITE 200 ALHAMBRA, CA 91801 TEL: (626) 281-2288	
PUBLIC IMPROVEMENT PLANS FOR TRACTS 1802 & 1856, MARIA VISTA ESTATES VISTA DEL PUEBLO: STA 3+50 TO 7+50			
Design/Drawn	County Plan Check	APPROVED FOR COUNTY REQUIREMENTS	
	5-3-04		
Job No.	County W.D. No.	Development Services Engineer	Date
03-142	P11D37A & P11D511	KEVIN Y LAI	
California Coordinates	N 554	E 1264	Sheet 28 of 57



CL STA

SEE SHEET S83

TRACT 1802
PHASE I, LOT 1
OPEN SPACE



DEMOLITION & PROTECTION NOTES:

- 1 SAWCUT TO COMPETENT A.C. AND/OR DEMOLISH AND REMOVE EXISTING A.C. PAVEMENT, LIMITS PER PLAN.
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- 7 EXISTING TREE TO BE REMOVED (SIZE AND TYPE PER PLAN), SEE GRADING PLANS.

ROAD CONSTRUCTION NOTES:

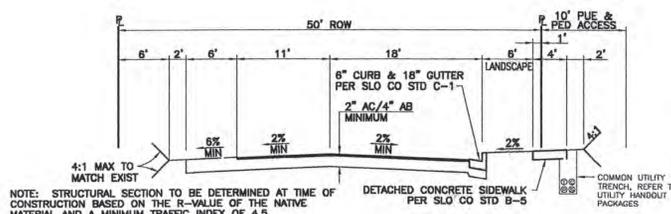
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- 6 CONSTRUCT 16" WIDE CONCRETE DRIVEWAY PER SAN LUIS OBISPO COUNTY STANDARD B-3.
- 7 CONSTRUCT STANDARD STREET MONUMENT PER DETAIL SAN LUIS OBISPO COUNTY STANDARD M-1.
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- 19 CONSTRUCT NEW 6" CONCRETE CURB PER SAN LUIS OBISPO COUNTY STANDARD C-1, TYPE "C".
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- 21 "STOP" AND "LIMIT LINE" PER CALTRANS STANDARDS A24D & A24E.

DRAINAGE CONSTRUCTION NOTES:

- REFER TO APPROVED GRADING PLANS AND GRADING PLAN ADDENDUM SHEETS FOR STORM DRAINAGE CONSTRUCTION INFORMATION. STORM DRAINAGE INFORMATION PRESENTED HEREIN IS FOR REFERENCE ONLY.
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 - 3 NEW STORM DRAIN CATCH BASIN (CALTRANS TYPE "GDD") PER APPROVED GRADING PLANS.
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 - 5 CONSTRUCT OVER SIDE DRAIN PER DETAIL "A", SHEET D3.
 - 6 NEW STORM DRAIN MANHOLE (APWA STD PLAN 320-0).
 - 7 CONSTRUCT NEW CONCRETE SIDEWALK UNDER DRAIN PER DETAIL "D", SHEET D3 (W=2').
 - 8 CONSTRUCT OVER SIDE DRAIN PER 2002 CALTRANS D87A, TYPE 1 w/ TYPE A DIKE, 12" SD, "L" PER PLAN.
 - 9 CONSTRUCT BROW DITCH PER DETAIL G3, SHEET D3

UTILITY CONSTRUCTION NOTES:

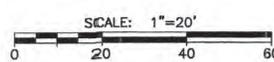
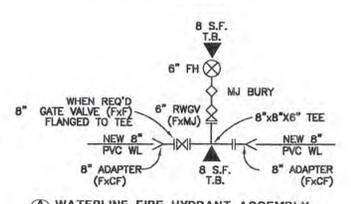
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- W1 CONSTRUCT PVC C900 WATERLINE PER NCS STANDARD W-8 AND SPECIFICATIONS (SIZE PER PLAN).
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 - W3 CONSTRUCT WATER SERVICE CONNECTION PER NCS STANDARD W-4.
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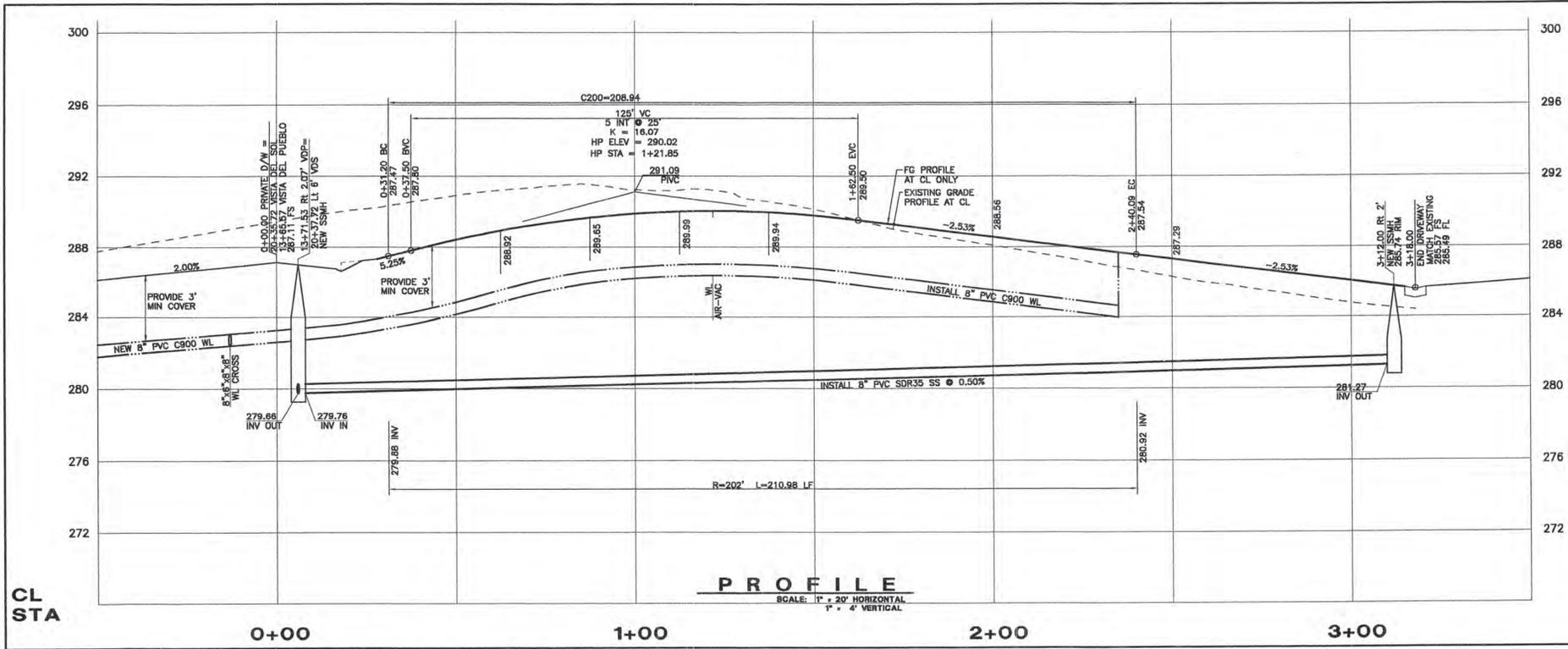
CURVE	LENGTH	RADIUS	TANGENT	DELTA
C133	17.81'	318.00'	8.81'	3°10'20"
C134	412.55'	300.00'	248.39'	78°47'32"
C135	387.80'	282.00'	231.60'	78°47'32"

NOTE: STRUCTURAL SECTION TO BE DETERMINED AT TIME OF CONSTRUCTION BASED ON THE R-VALUE OF THE NATIVE MATERIAL AND A MINIMUM TRAFFIC INDEX OF 4.5.

TYPICAL ROAD SECTION: VISTA DEL PUEBLO TO STA 8+14.26
SCALE: 1" = 10' HORZ
1" = 5' VERT



REVISIONS		CALILAND ENGINEERING INC.	
DATE	DESCRIPTION	APPROVED	1219 B. GARFIELD AVE, SUITE 200 ALHAMBRA, CA. 91801 TEL: (626) 281-2298
		PUBLIC IMPROVEMENT PLANS FOR	
		TRACTS 1802 & 1856, MARIA VISTA ESTATES	
		VISTA DEL PUEBLO: STA 7+50 TO 10+40	
Design/Drawn	County Plan Check	APPROVED FOR COUNTY REQUIREMENTS	
	D.O.E.	5.3.04	
Job No.	County W.O. No.	Development Services Engineer	
03-142	P11D374 & P11D511	Date	
FILE DATA:	California Coordinates	KEVIN Y LAI	
	N 554	E 1264	
		RCE 00886	
		Date	
		2-17-04	
		Date	
		29 of 57	



CL STA

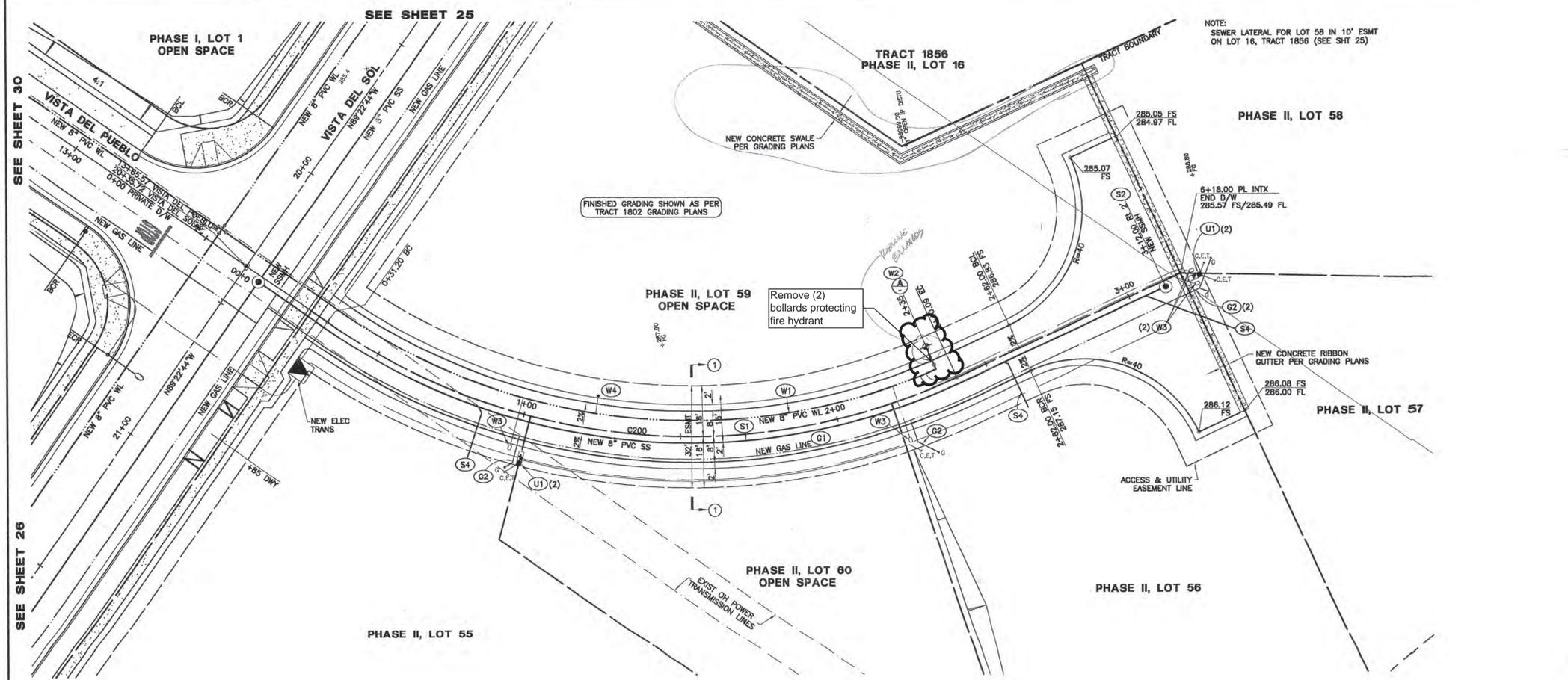
PROFILE
SCALE: 1" = 20' HORIZONTAL
1" = 4' VERTICAL

- DEMOLITION & PROTECTION NOTES:**
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 - 6 NEW STORM DRAIN MANHOLE (APWA STD PLAN 320-0).
 - 7 CONSTRUCT NEW CONCRETE SIDEWALK UNDER DRAIN PER DETAIL "D", SHEET D3 (W=2').
 - 8 CONSTRUCT OVER SIDE DRAIN PER 2002 CALTRANS D67A, TYPE 1 W/ TYPE A DIKE, 12" SD, "L" PER PLAN.
 - 9 CONSTRUCT BROW DITCH PER DETAIL G3, SHEET D3.

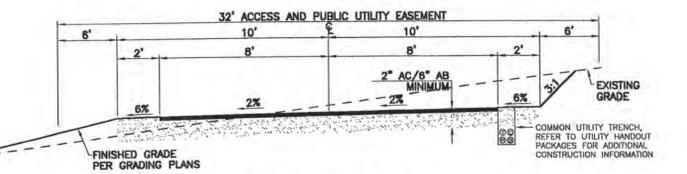
- UTILITY CONSTRUCTION NOTES:**
- ALL WATER AND SEWER LINES AND APPURTENANCES SHALL BE INSTALLED AND TESTED PER THE LATEST EDITION OF THE NPOMD COMMUNITY SERVICES DISTRICT (NCS) STANDARDS AND SPECIFICATIONS. THE INSTALLATION OF ALL GAS AND WIRE (CABLE, TELEPHONE, ELECTRIC, ETC.) UTILITIES SHALL BE COORDINATED WITH THE RESPECTIVE UTILITY COMPANY.
- W1 CONSTRUCT PVC C900 WATERLINE PER NCS STANDARD W-8 AND SPECIFICATIONS (SIZE PER PLAN).
 - W2 CONSTRUCT FIRE HYDRANT ASSEMBLY PER NCS STANDARD W-1.
 - W3 CONSTRUCT WATER SERVICE CONNECTION PER NCS STANDARD W-4.
 - W4 CONSTRUCT WATERLINE 1" AIR & VACUUM RELIEF ASSEMBLY PER NCS STANDARD W-5.
 - W5 CONSTRUCT WATERLINE BLOW-OFF ASSEMBLY PER NCS STANDARD W-7.
 - W6 CONSTRUCT WATERLINE VERTICAL BEND PER DETAIL "E", SHEET D3.
 - W7 CONSTRUCT PRESSURE RELIEF VALVE ASSEMBLY PER DETAIL F, SHEET D3.
 - S1 CONSTRUCT NEW PVC SDR35 SEWER LINE PER NCS STANDARD W-8 AND SPECIFICATIONS (SIZE PER PLAN).
 - S2 CONSTRUCT NEW SEWER MANHOLE PER NCS STANDARDS S-1 & S-2.
 - S3 CONSTRUCT NEW SEWER CLEAN OUT PER NCS STANDARD S-4.
 - S4 CONSTRUCT NEW 4" PVC SDR35 SEWER LATERAL PER NCS STANDARD S-5.
 - S5 NEW 4" SANITARY SEWER FORCE MAIN (SHOWN FOR REFERENCE ONLY, TO BE CONSTRUCTED UNDER SEPARATE DOCUMENT).
 - U1 INSTALL ELECTRIC, TELEPHONE, & CATV UTILITY PULL AND SPLICE BOXES PER RESPECTIVE UTILITY COMPANY STANDARDS AND SPECIFICATIONS.
 - U2 INSTALL NEW STREET LIGHT STANDARD PER DETAIL "B", SHEET D3.
 - G1 COORDINATE NEW GAS LINE TRENCHING WITH THE GAS COMPANY PRIOR TO CONSTRUCTION.
 - G2 CONSTRUCT GAS LINE SERVICE LATERAL, STUB AND CAP 3' INSIDE PROPERTY LINE.



SEE SHEET 30

SEE SHEET 26

NOTE: SEWER LATERAL FOR LOT 58 IN 10' ESMT ON LOT 16, TRACT 1856 (SEE SHT 25)



NOTE: STRUCTURAL SECTION TO BE DETERMINED AT TIME OF CONSTRUCTION BASED ON THE R-VALUE OF THE NATIVE MATERIAL AND A MINIMUM TRAFFIC INDEX OF 4.5.

TYPICAL PRIVATE DRIVEWAY SECTION

REVISIONS	DATE	DESCRIPTION	APPROVED

CALLAND ENGINEERING INC.
1218 S. GARFIELD AVE. SUITE 200
ALHAMBRA, CA 91801
TEL: (626) 281-2288

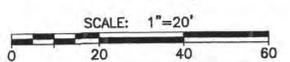
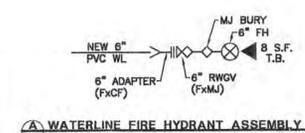
PUBLIC IMPROVEMENT PLANS FOR TRACTS 1802 & 1856, MARIA VISTA ESTATES

PRIVATE D/W: STA 0+00 TO 3+18

Design/Draw: **D.E. 5.3.04**
County Plan Check: **APPROVED FOR COUNTY REQUIREMENTS**
Development Services Engineer: **KEVIN Y LAI**
Job No.: **03-142**
County W.O. No.: **P11D374 & P11D511**
Scale: **1"=20'**
File Data: **California Coordinates N 554 E 1264**
Sheet: **31 of 57**

CURVE TABLE

CURVE	LENGTH	RADIUS	TANGENT	DELTA
C200	208.94'	200.00'	115.14'	59°51'27"



Revisions

By	Approved	Date	County Engineer	Approved	Date

DESCRIPTION
DRIVEWAY APPROACH (ROADWAYS WITHOUT BEAMS OR CURBS)

NOTES:
1. For connection to existing county road, address and type of construction shall be as shown in the attached permit.
2. Driveways shall be 8' from edge of pavement.
3. 17% maximum difference in grade at hinge point.

Specification Ref: COUNTY OF SAN LUIS OBISPO ENGINEERING DEPARTMENT
Drawing No: AS SHOWN
Scale: NONE
Sheet: B-2

Revisions

By	Approved	Date	County Engineer	Approved	Date

DESCRIPTION
RESIDENTIAL, COMMERCIAL, AND INDUSTRIAL DRIVEWAYS

NOTES:
1. All residential, commercial, and industrial driveways not qualifying as High Volume Driveways shall be designed as shown in B-3 SHIT 2 of 3.
2. $w = 3$ feet except for curb heights over 8 inches where 14 inch shall be used on curb slope.
3. $w = 4$ feet except for curb heights over 8 inches where 14 inch shall be used on curb slope.
4. The sidewalk cross slope shall not exceed 1/8" per foot (2%). However, if local conditions create an unreasonable hardship, as determined by the ADA Coordinator, the cross slope shall be increased to a maximum of 1/4" per foot (4%) for distances not to exceed 20 feet.
5. Sidewalk and ramp thickness at driveway shall be 4".
6. Structural backfill shall be 6" (Section 19-3.06 of the State Standard Specifications).
7. The slope of the ramp is a straight grade from the top of the back of ramp to the top of the top of the sidewalk.
8. Minimum sidewalk width for other passage shall be 45". Where physical barriers (i.e. utility poles), natural barriers, or other existing conditions exist, as determined by the ADA Coordinator, the clear width may be reduced to 36".
9. Expansion joints and dowels shall be installed where indicated in B-3 SHIT 2 of 3. Refer to B-3 for details on expansion joints and dowels.
10. Sidewalk shall be the Paved Curing Compound Method according to the provisions of section 90-7 of the State Standard Specifications. Curing compound shall be the white pigment type.
11. Retaining curbs and acquisition of construction easement may be necessary.
12. The County Engineer may grant exceptions to these standards on an individual basis. The ADA Coordinator shall review all exceptions for recommendation to the County Engineer.

Specification Ref: COUNTY OF SAN LUIS OBISPO ENGINEERING DEPARTMENT
Drawing No: AS SHOWN
Scale: NONE
Sheet: B-3

Revisions

By	Approved	Date	County Engineer	Approved	Date

DESCRIPTION
RESIDENTIAL, COMMERCIAL AND INDUSTRIAL DRIVEWAYS

NOTES:
1. Sidewalk thickness shall be 4" (Section 19-3.06 of the State Standard Specifications).
2. Expansion joints shall be placed at 15' intervals and at ends of all curb returns, each side of driveway depressions and each end of the gutter transition adjacent to storm drain inlets. The intervals between expansion joints shall vary to allow application of joints in odd existing circumstances.
3. Dowel class shall be A.
4. Expansion joints shall be placed at 15' intervals and at ends of all curb returns, each side of driveway depressions and each end of the gutter transition adjacent to storm drain inlets. The intervals between expansion joints shall vary to allow application of joints in odd existing circumstances.
5. Dowel class shall be A.
6. Expansion joints shall be placed at 15' intervals and at ends of all curb returns, each side of driveway depressions and each end of the gutter transition adjacent to storm drain inlets. The intervals between expansion joints shall vary to allow application of joints in odd existing circumstances.
7. Dowel class shall be A.

Specification Ref: COUNTY OF SAN LUIS OBISPO ENGINEERING DEPARTMENT
Drawing No: AS SHOWN
Scale: NONE
Sheet: B-5

Revisions

By	Approved	Date	County Engineer	Approved	Date

DESCRIPTION
RESIDENTIAL, COMMERCIAL AND INDUSTRIAL DRIVEWAYS

NOTES:
1. New sidewalks or paths shall have a curb ramp or a sloped area wherever they intersect streets, roads, or highways.
2. All curb ramps for new construction shall conform to the latest revision of California Standards 211.2. All curb ramps for existing construction shall conform to the latest revision of California Standards 211.2. Note: Note 2 of California Standards 211.2. Note: Note 2 of California Standards 211.2.
3. Note: Note 2 of California Standards 211.2. Note: Note 2 of California Standards 211.2.
4. Note: Note 2 of California Standards 211.2. Note: Note 2 of California Standards 211.2.
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18. Note: Note 2 of California Standards 211.2. Note: Note 2 of California Standards 211.2.
19. Note: Note 2 of California Standards 211.2. Note: Note 2 of California Standards 211.2.
20. Note: Note 2 of California Standards 211.2. Note: Note 2 of California Standards 211.2.

Specification Ref: COUNTY OF SAN LUIS OBISPO ENGINEERING DEPARTMENT
Drawing No: AS SHOWN
Scale: NONE
Sheet: B-7

Revisions

By	Approved	Date	County Engineer	Approved	Date

DESCRIPTION
CURE RAMP DETAILS

NOTES:
1. If distance from curb to back of sidewalk is less than to accommodate ramp and 4. If distance from curb to back of sidewalk is less than to accommodate ramp and 4. If distance from curb to back of sidewalk is less than to accommodate ramp and 4.
2. If distance from curb to back of sidewalk is less than to accommodate ramp and 4. If distance from curb to back of sidewalk is less than to accommodate ramp and 4.
3. If distance from curb to back of sidewalk is less than to accommodate ramp and 4. If distance from curb to back of sidewalk is less than to accommodate ramp and 4.
4. For Cases F and G, the longitudinal section of the sidewalk may be depressed or raised as shown in Case F.
5. If located on a curve the slope of the ramp shall not be greater than the maximum width of the ramp shall be 1/8".
6. Transitions from ramps to walk, gutters, or sidewalks shall be flush and free of curb changes.
7. Sidewalk and ramp thickness shall be 4" (Section 19-3.06 of the State Standard Specifications).
8. The ramp shall have a 1/2" wide border with 1/4" grooves approximately 3/4" in width. See drawing above.
9. Curb ramps shall have a ramp slope flatter than 6.67% and have a detectable warning surface that extends the full width of the ramp and 2.0' minimum beyond the edge of the curb. The detectable warning surface shall be constructed by the contractor. The detectable warning surface shall extend to the top of the curb.
10. When detectable warning surface is not required on a curb ramp, the concrete finish of the ramp and its base shall be finished with longitudinal grooves spaced no more than 1/2" apart.
11. Ramp slope shall vary uniformly from a maximum of 10% at curb to conform with longitudinal sidewalk slope indicated by top of the ramp, except in Case C.
12. 100% self-healing concrete, ready-mix and self-healing concrete shall be used for the curb ramp. The self-healing concrete shall be applied to the top of the curb.
13. Maximum slope of existing sidewalk, the road surface immediately adjacent to the curb ramp shall not exceed 5 percent within 4' of the top of the curb.
14. Design details approved by the Division of the State Architect on March 18, 1999.

Specification Ref: COUNTY OF SAN LUIS OBISPO ENGINEERING DEPARTMENT
Drawing No: AS SHOWN
Scale: NONE
Sheet: ABB

Revisions

By	Approved	Date	County Engineer	Approved	Date

DESCRIPTION
CURB RAMPS

NOTES:
1. New sidewalks or paths shall have a curb ramp or a sloped area wherever they intersect streets, roads, or highways.
2. All curb ramps for new construction shall conform to the latest revision of California Standards 211.2. All curb ramps for existing construction shall conform to the latest revision of California Standards 211.2.
3. Note: Note 2 of California Standards 211.2. Note: Note 2 of California Standards 211.2.
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Specification Ref: COUNTY OF SAN LUIS OBISPO ENGINEERING DEPARTMENT
Drawing No: AS SHOWN
Scale: NONE
Sheet: B-7

Revisions

By	Approved	Date	County Engineer	Approved	Date

DESCRIPTION
CURBS

NOTES:
1. TYPE A AND C CURB TO BE CLASS 'B'.
2. TYPE B CURB TO BE CLASS 'A'.
3. STR. B.K.P. Sect 19-3.06 State Std. Specs.

Specification Ref: COUNTY OF SAN LUIS OBISPO ENGINEERING DEPARTMENT
Drawing No: AS SHOWN
Scale: NONE
Sheet: C-1

Revisions

By	Approved	Date	County Engineer	Approved	Date

DESCRIPTION
CONCRETE CROSS GUTTER

NOTES:
1. Backfill shall be placed in accordance with the provisions of Section 19-3.06 of the State Standard Specifications.
2. Expansion joints shall be placed at 15' intervals and at ends of all curb returns, each side of driveway depressions and each end of the gutter transition adjacent to storm drain inlets. The intervals between expansion joints shall vary to allow application of joints in odd existing circumstances.
3. Dowel class shall be A.
4. Expansion joints shall be placed at 15' intervals and at ends of all curb returns, each side of driveway depressions and each end of the gutter transition adjacent to storm drain inlets. The intervals between expansion joints shall vary to allow application of joints in odd existing circumstances.
5. Dowel class shall be A.

Specification Ref: COUNTY OF SAN LUIS OBISPO ENGINEERING DEPARTMENT
Drawing No: AS SHOWN
Scale: NONE
Sheet: C-2

Revisions

By	Approved	Date	County Engineer	Approved	Date

DESCRIPTION
STORM DRAIN INLET

NOTES:
1. LETTERS EXPRESSED THE "COUNTY OF SAN LUIS OBISPO" SHALL BE USED FOR ALL LETTERS.
2. LETTERS EXPRESSED THE "COUNTY OF SAN LUIS OBISPO" SHALL BE USED FOR ALL LETTERS.
3. LETTERS EXPRESSED THE "COUNTY OF SAN LUIS OBISPO" SHALL BE USED FOR ALL LETTERS.
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Specification Ref: COUNTY OF SAN LUIS OBISPO ENGINEERING DEPARTMENT
Drawing No: AS SHOWN
Scale: NONE
Sheet: C-3

Revisions

By	Approved	Date	County Engineer	Approved	Date

DESCRIPTION
STANDARD STREET MONUMENT

NOTES:
1. ENGINEER OR SURVEYOR SHALL BE RESPONSIBLE FOR THE MONUMENT WALL. INDICATE EXACT POINT BY MARKING A CROSS ON THE CAP. THE WALL SHALL BE BUILT ON THE LINE OF THE MONUMENT. THE WALL SHALL BE BUILT ON THE LINE OF THE MONUMENT. THE WALL SHALL BE BUILT ON THE LINE OF THE MONUMENT.
2. ENGINEER OR SURVEYOR SHALL BE RESPONSIBLE FOR THE MONUMENT WALL. INDICATE EXACT POINT BY MARKING A CROSS ON THE CAP. THE WALL SHALL BE BUILT ON THE LINE OF THE MONUMENT. THE WALL SHALL BE BUILT ON THE LINE OF THE MONUMENT. THE WALL SHALL BE BUILT ON THE LINE OF THE MONUMENT.
3. ENGINEER OR SURVEYOR SHALL BE RESPONSIBLE FOR THE MONUMENT WALL. INDICATE EXACT POINT BY MARKING A CROSS ON THE CAP. THE WALL SHALL BE BUILT ON THE LINE OF THE MONUMENT. THE WALL SHALL BE BUILT ON THE LINE OF THE MONUMENT. THE WALL SHALL BE BUILT ON THE LINE OF THE MONUMENT.
4. ENGINEER OR SURVEYOR SHALL BE RESPONSIBLE FOR THE MONUMENT WALL. INDICATE EXACT POINT BY MARKING A CROSS ON THE CAP. THE WALL SHALL BE BUILT ON THE LINE OF THE MONUMENT. THE WALL SHALL BE BUILT ON THE LINE OF THE MONUMENT. THE WALL SHALL BE BUILT ON THE LINE OF THE MONUMENT.
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Specification Ref: COUNTY OF SAN LUIS OBISPO ENGINEERING DEPARTMENT
Drawing No: AS SHOWN
Scale: NONE
Sheet: M-1

Revisions

By	Approved	Date	County Engineer	Approved	Date

DESCRIPTION
METAL BEAM BARRICADE

NOTES:
1. THE NUMBER OF BEAMS SHALL BE AS SHOWN.
2. THE NUMBER OF BEAMS SHALL BE AS SHOWN.
3. THE NUMBER OF BEAMS SHALL BE AS SHOWN.
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10. THE NUMBER OF BEAMS SHALL BE AS SHOWN.

Specification Ref: COUNTY OF SAN LUIS OBISPO ENGINEERING DEPARTMENT
Drawing No: AS SHOWN
Scale: NONE
Sheet: M-4

Revisions

By	Approved	Date	County Engineer	Approved	Date

DESCRIPTION
STANDARD STREET SIGN

NOTES:
1. THE SIGN SHALL BE AS SHOWN.
2. THE SIGN SHALL BE AS SHOWN.
3. THE SIGN SHALL BE AS SHOWN.
4. THE SIGN SHALL BE AS SHOWN.
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9. THE SIGN SHALL BE AS SHOWN.
10. THE SIGN SHALL BE AS SHOWN.

Specification Ref: COUNTY OF SAN LUIS OBISPO ENGINEERING DEPARTMENT
Drawing No: AS SHOWN
Scale: NONE
Sheet: M-6

Revisions

By	Approved	Date	County Engineer	Approved	Date

DESCRIPTION
HIGH VOLUME DRIVEWAY

NOTES:
1. 10% PERCENT (10%) MAXIMUM GRADE FOR COMMERCIAL AND INDUSTRIAL USES. GRADE MAY BE INCREASED TO 12% WITH SPECIAL CONSTRUCTION TECHNIQUES IF APPROVED BY THE COUNTY ENGINEER.
2. MAXIMUM RISE AND DEGREE, AND THE RISE SHALL BE AS SHOWN FOR THE ROAD CONDITION BETWEEN THE BACK OF SIDEWALK EXTENSION AND THE FINISHED GRADE OF THE DRIVEWAY.
3. SIDEWALK EXTENSION CROSS-SLOPE MAY NOT EXCEED 2% AND MUST SLOPE TOWARDS THE STREET.

Specification Ref: COUNTY OF SAN LUIS OBISPO ENGINEERING DEPARTMENT
Drawing No: AS SHOWN
Scale: NONE
Sheet: B-8

Revisions

By	Approved	Date	County Engineer	Approved	Date

DESCRIPTION
CHAIN LINK FENCE AND GATES

NOTES:
1. END POSTS SHALL BE SUPPLIED WITH 1/2" MIN. CLEARANCE FROM INSIDE OF WALL TO PRODUCE A FINISH APPROVED BY THE COUNTY ENGINEER.
2. END POSTS SHALL BE SUPPLIED WITH 1/2" MIN. CLEARANCE FROM INSIDE OF WALL TO PRODUCE A FINISH APPROVED BY THE COUNTY ENGINEER.
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Specification Ref: AMERICAN PUBLIC WORKS ASSOCIATION - SOUTHERN CALIFORNIA CHAPTER
Drawing No: 600-1
Scale: NONE
Sheet: 1 of 3

Revisions

By	Approved	Date	County Engineer	Approved	Date

DESCRIPTION
CHAIN LINK FENCE AND GATES

NOTES:
1. END POSTS SHALL BE SUPPLIED WITH 1/2" MIN. CLEARANCE FROM INSIDE OF WALL TO PRODUCE A FINISH APPROVED BY THE COUNTY ENGINEER.
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Specification Ref: AMERICAN PUBLIC WORKS ASSOCIATION - SOUTHERN CALIFORNIA CHAPTER
Drawing No: 600-1
Scale: NONE
Sheet: 2 of 3

Revisions

By	Approved	Date	County Engineer	Approved	Date

DESCRIPTION
CHAIN LINK FENCE AND GATES

NOTES:
1. END POSTS SHALL BE SUPPLIED WITH 1/2" MIN. CLEARANCE FROM INSIDE OF WALL TO PRODUCE A FINISH APPROVED BY THE COUNTY ENGINEER.
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Specification Ref: AMERICAN PUBLIC WORKS ASSOCIATION - SOUTHERN CALIFORNIA CHAPTER
Drawing No: 600-1
Scale: NONE
Sheet: 3 of 3

REVISIONS

DATE	DESCRIPTION	APPROVED

CALILAND ENGINEERING INC. 1218 S. GARFIELD AVE. SUITE 200 ALHAMBRA, CA 91801 TEL: (626) 281-3288

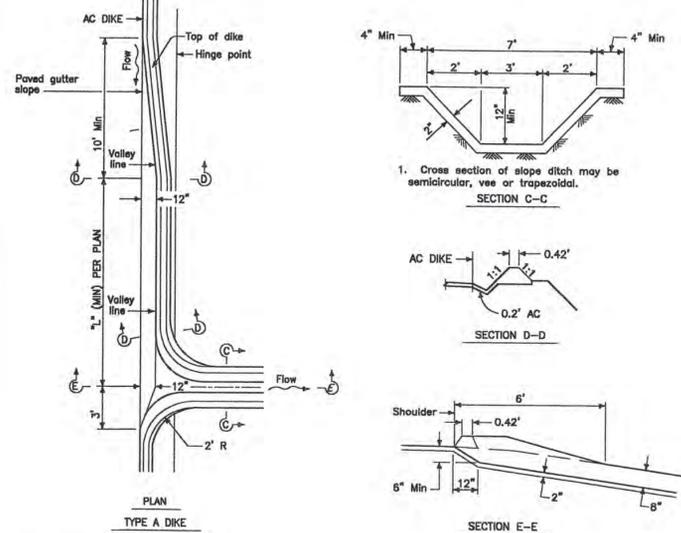
PUBLIC IMPROVEMENT PLANS FOR TRACTS 1802 & 1856, MARIA VISTA ESTATES

DETAIL SHEET

Design/Drawn: County Plan Check APPROVED FOR COUNTY REQUIREMENTS
D.E. S.B.04 Development Services Engineer Date

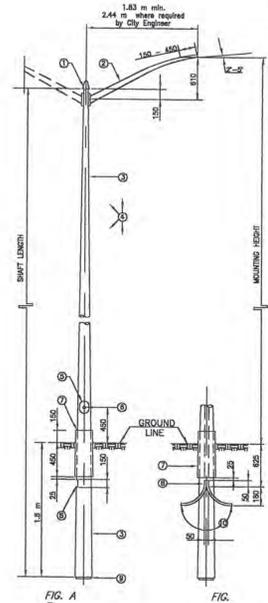
Job No. 03-142 County W.O. No. P11D374 & P11D541
KEVIN Y LAI RCE 00505 Date 4-1-04

FILE DATA: California Coordinates N 554 E 1264 Sheet 33 of 57 D2



NOTE:
 1. REFER TO 1999 CALTRANS STANDARD PLAN D87A, "TYPE A DIKE" FOR ADDITIONAL CONSTRUCTION INFORMATION.
 2. DETAIL SHOWN IS FOR CONSTANT GRADE CONDITIONS. FOR SUMP CONDITIONS THE 10' TRANSITION AND "L" SHALL BE MIRRORED ON BOTH SIDES ON THE OPENING.

A.C. CEMENT OVERSIDE DRAIN (MODIFIED CALTRANS STD D87D: TYPE "A" DIKE)
 SCALE: NTS

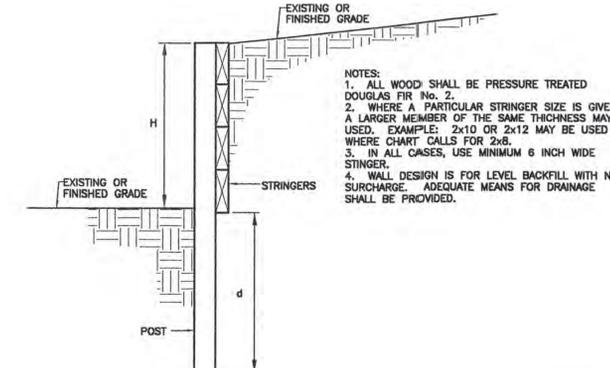


EMBEDDED STEEL POLE
 (units in mm unless otherwise shown)

STREET LIGHT STANDARD DETAIL
 SCALE: NTS

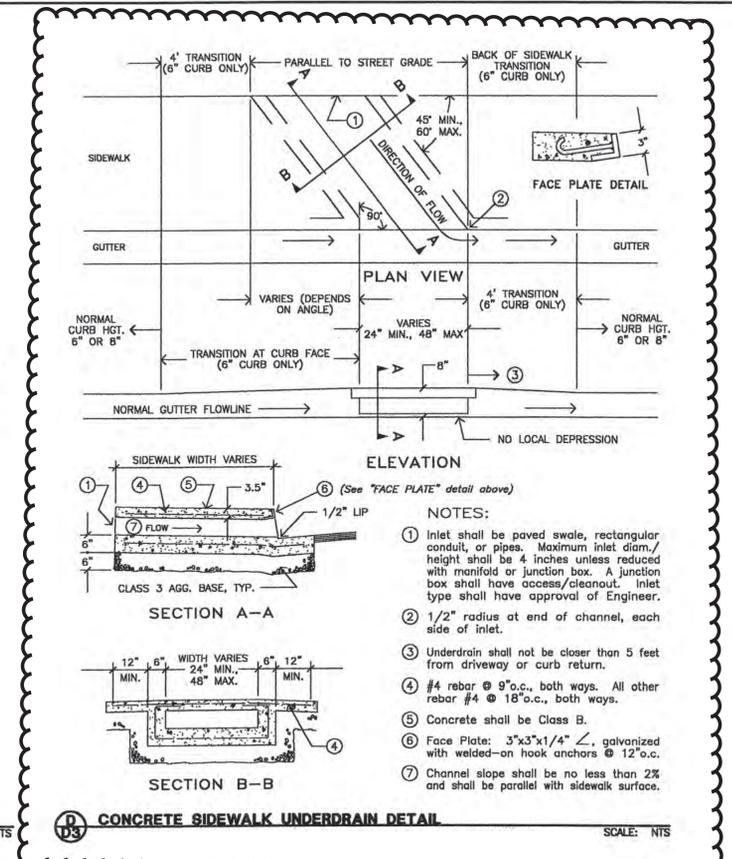
- TYPE 1 - EMBEDDED STEEL**
1. Q&E - CAST IRON, OR STEEL, ATTACHED WITH SET SCREWS.
 2. ASM - FORMED CYLINDRICAL OF 11 GA. STEEL, 230 MPa YIELD STRENGTH, WITH A TAPER OF 12 mm/m, SMALL END O.D. OF 60 mm, AND LARGE END DIA. TO A WIDTH OF ABOUT 60 mm TO MATCH WITH WELDED-ON ATTACHMENT PLATE.
 3. EOLE - FORMED CYLINDRICAL OF 11 GA. STEEL, 230 MPa YIELD STRENGTH, WITH A TAPER OF 12 mm/m.
 4. ALL PARTS - SHALL BE COATED (ARND) SHALL BE GALVANIZED PER ASTM A123 AFTER FORMED AND WELDED. ALL REMAINING PARTS SHALL BE GALVANIZED PER ASTM A123. HOLE SHALL BE GALVANIZED PER ASTM A123 AFTER THE HOLES ARE CUT AND ITEMS (2), (3), (4), AND (5) HAVE BEEN WELDED ON.
 5. HANDLE - AN O-RING HOLE, 100 x 180 mm, WITH A WELDED-ON REINFORCING FRAME, COVER, AND MOUNTING HARDWARE.
 6. WELDNUT - A 12 mm SQUARE BRONZING NUT, OR NUT HOLDER, WELDED TO INSIDE OF POLE, JUST OPPOSITE OF HANDLE.
 7. GROUND LINE SLEEVE - CYLINDRICAL STEEL SLEEVE, 11 GA., CONTINUOUSLY SEAL-WELDED (BOTH ENDS) TO THE POLE.
 8. CABLE DISTANCE - OVAL SLOT, 50 x 150 mm, AND 180° FROM LUMINAIRE (SEE FIGURES A & B).
 9. BOLT PLATE - PLATE, OR ANGLE STEEL, 6 mm THICK, 200 mm LONG, AND 100 - 150 mm WIDE, SEAL - WELDED CONTINUOUSLY AT BOTH ENDS AT BOTTOM OF POLE.
 10. CONDUITINGS - 2 ea. No. 6, ALUMINUM - C.L.C.
 11. PROTECTIVE TUBES - THESE TUBES, SONOCO No. EL-18 x 48 (P.A.E. & CODE: 12 - 6077), ARE 6 mm THICK RESIN-IMPREGATED PAPER TUBES. THEY ARE TO BE USED WHERE FUTURE EMBEDDED STREET LIGHT POLES ARE TO BE INSTALLED AND IT IS UNKNOWN WHETHER THE SPACE WILL BE CLEAR OF OTHER FACILITIES WHEN IT COMES TIME TO ASSESS TO HOLE.
 12. PLACE THE TUBE IN THE GROUND AT THE PROPOSED POLE LOCATION, SET IT TO APPROXIMATELY FINISHED GRADE AND FILL WITH NATIVE BROOKS. ALONG DOWN THROUGH IT WHEN SETTING THE POLE AND - ABANDON TUBE IN PLACE.
 13. THE STREET LIGHT CONDUIT SHOULD BE INSTALLED ON THE OUTSIDE OF THE TUBE AND ON THE SAME SIDE AS THE ENTRANCE HOLE. THE HOLE IS LOCATED 610 mm BELOW THE TOP EDGE.
- GENERAL NOTES**
- A. THE EMBEDDED STEEL POLE SHALL BE USED FOR NEW CONSTRUCTION. FOUNDATION MOUNTED STEEL POLE SHALL BE USED ONLY FOR REPLACING EXISTING FOUNDATION MOUNTED STEEL POLE ON EXISTING OR NEW CONDITIONS REQUIRE A FOUNDATION MOUNTED STEEL POLE.
 - B. WHEN USING EMBEDDED STEEL POLE BOTTOM OF POLE SHALL BE WELL TAMPED BEFORE INSTALLING POLE. JUDGEMENT BASED ON EXPERIENCE AND LOCAL SOIL CONDITIONS SHOULD BE USED TO DETERMINE "TAMPING" AND "HOOKING-UP" OF THE POLE ARE REQUIRED.
 - C. POLE SHALL BE IN ACCORDANCE WITH APPLICABLE REQUIREMENTS OF IES-NEMA STANDARDS FOR STREET LIGHTING POLES, IES PUBLICATION No. 104-104.
 - D. ACCEPTABLE LUMINAIRE AND ARM RISE IS 2.75 m.
 - E. THE CONTRACTOR SHALL FURNISH AND INSTALL THE LUMINAIRE(S) AND PHOTOELECTRIC CONTROL(S).
 - F. THE LUMINAIRE(S) AND PHOTOELECTRIC CONTROL(S) SHALL CONFORM TO THE PROVISIONS IN SECTION 60 OF THE STATE STANDARD SPECIFICATIONS.
 - G. FOR INSULATIONS OTHER THAN THOSE SHOWN, OR MENTIONED, SUCH AS FIBERGLASS, ALUMINUM, WOOD, FIBERGLASS, OR CONCRETE POLES, OPTIONAL LUMINAIRE: CONTACT THE CITY.
 - H. ALL PROPOSALS FOR STREET LIGHTING SHALL BE SUBMITTED TO THE CITY FOR REVIEW.
 - I. MAJOR STREETS (12 m WIDTH) SHALL HAVE 3.0 m MOUNTING HEIGHT, WITH 200 WATT LIGHTS, AND SPACED 60 - 75 m APART ON ALTERNATE SIDES OF STREET.
 - J. MINOR STREETS (6 m WIDTH) SHALL HAVE 2.7 m MOUNTING HEIGHT, WITH 150 WATT LIGHTS, (100 WATT AT SOME INTERSECTIONS) AND SPACED 60 - 75 m APART ON ONE SIDE OF STREET.
 - K. WITH SIDEWALKS 2 m OR WIDER, PLACE POLE 450 mm BEHIND CURB FACE. WITH SIDEWALKS LESS THAN 2 m WIDE, PLACE POLE 300 mm BEHIND SIDEWALK.

EMBEDDED STEEL POLES	SHAFT LENGTH (m)	EMBEDDED		P.A. & L. CODE		
		TOP	BOTTOM			
4 FT	9.9	91 to 88	205 to 215	1.83	8.7	35-7232
	11.3	91 to 88	205 to 215	1.83	9.9	35-7233
3 FT	9.9	91 to 88	205 to 215	1.83	8.7	35-7234
	11.3	91 to 88	220 to 230	2.44	8.9	35-7235

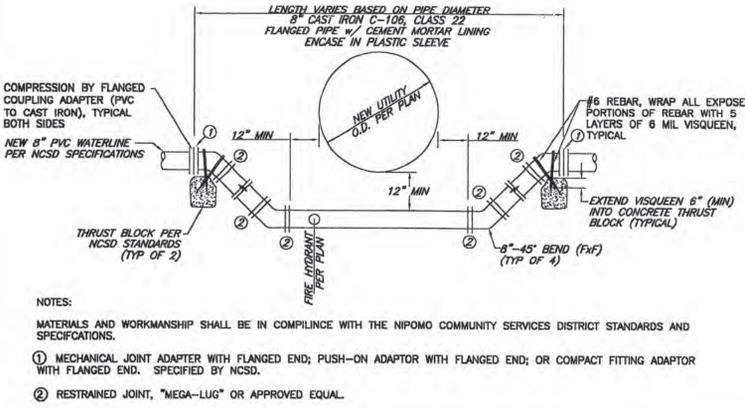


H	POSTS AT 6 FT O.C.			POSTS AT 4 FT O.C.		
	SIZE	d	STRINGERS	SIZE	d	STRINGER
4 FT	6x6	6 FT	3x	6x6	5 FT	2x
	4x4	7 FT		4x4	6 FT	
3 FT	6x6	5 FT	2x10, 3x8	6x6	4 FT	2x
	4x4	6 FT		4x4	5 FT	
2 FT	6x6	4 FT	2x8, 3x6	6x6	3'-3"	2x
	4x4	5 FT		4x4	4 FT	

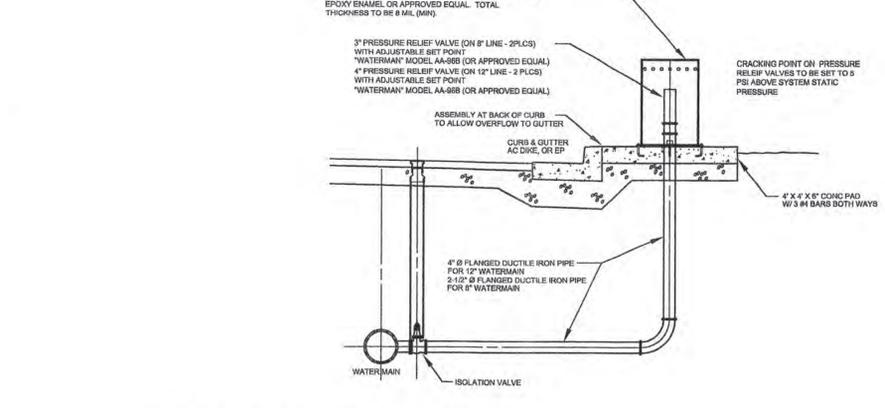
TEMPORARY WOOD RETAINING WALL DETAIL
 SCALE: NTS



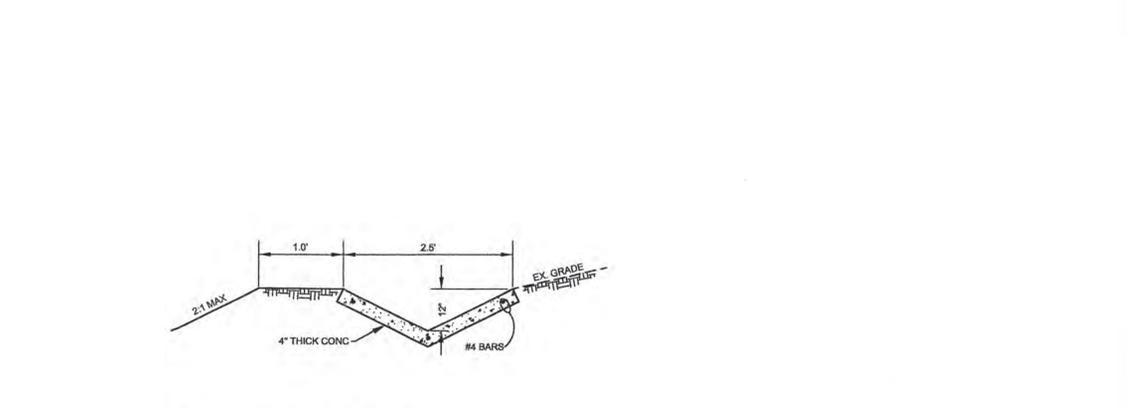
CONCRETE SIDEWALK UNDERDRAIN DETAIL
 SCALE: NTS



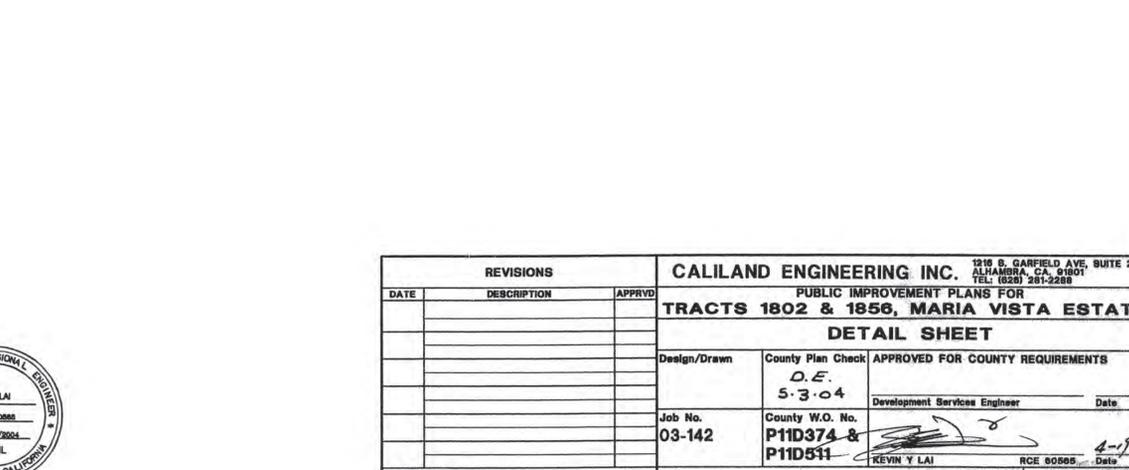
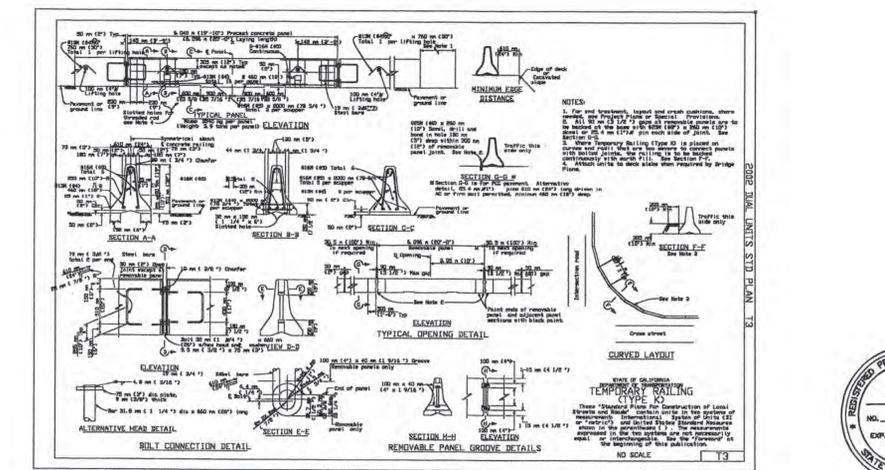
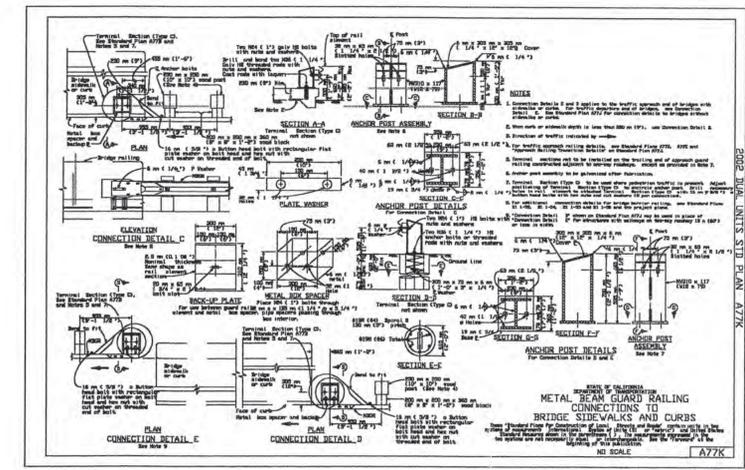
WATERLINE VERTICAL BEND DETAIL
 SCALE: NTS

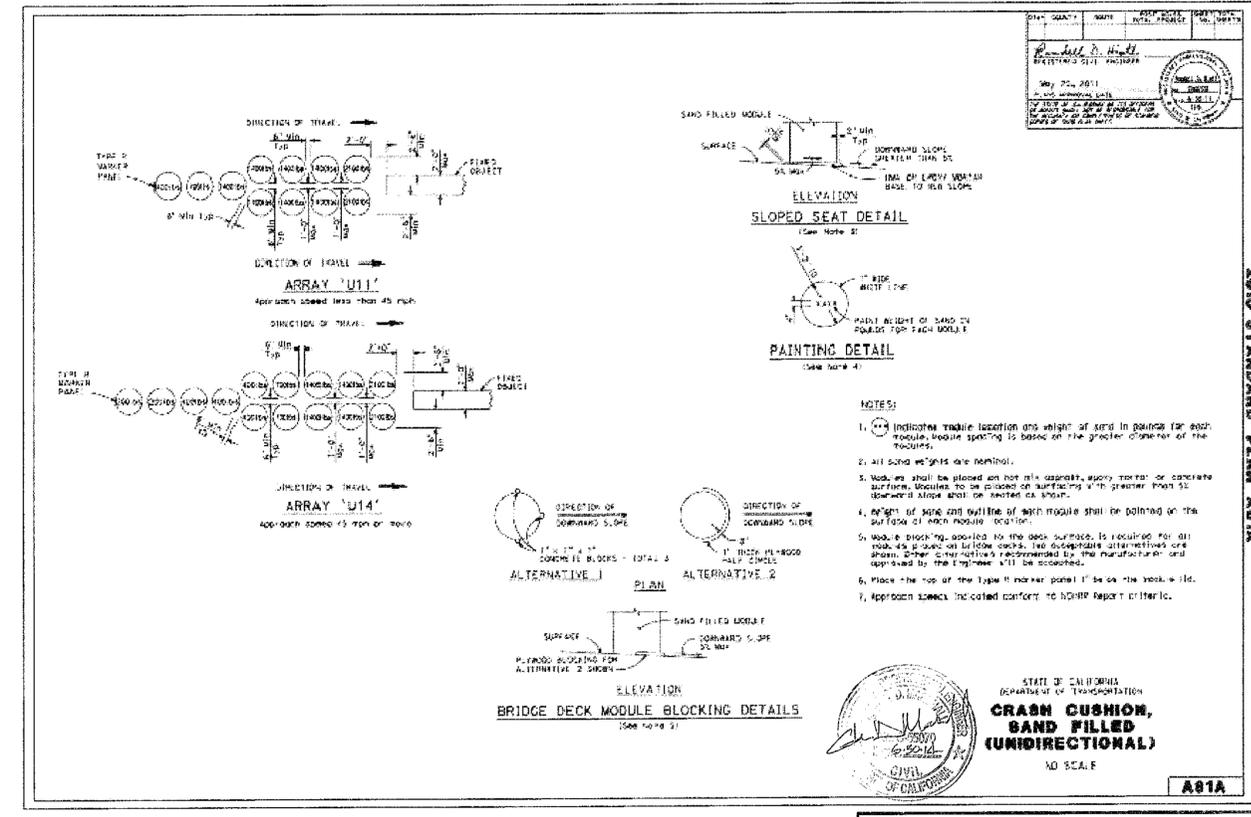
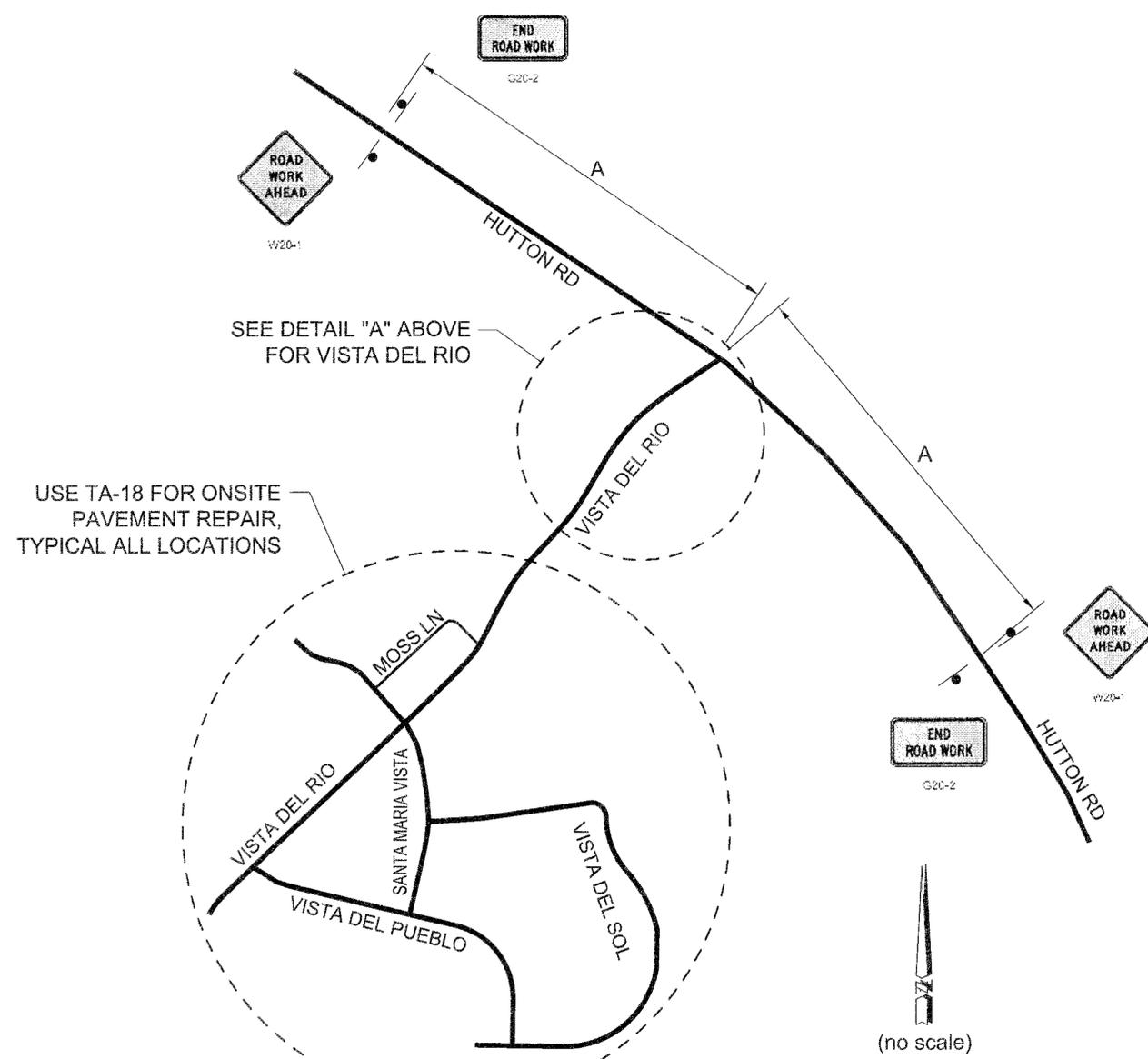
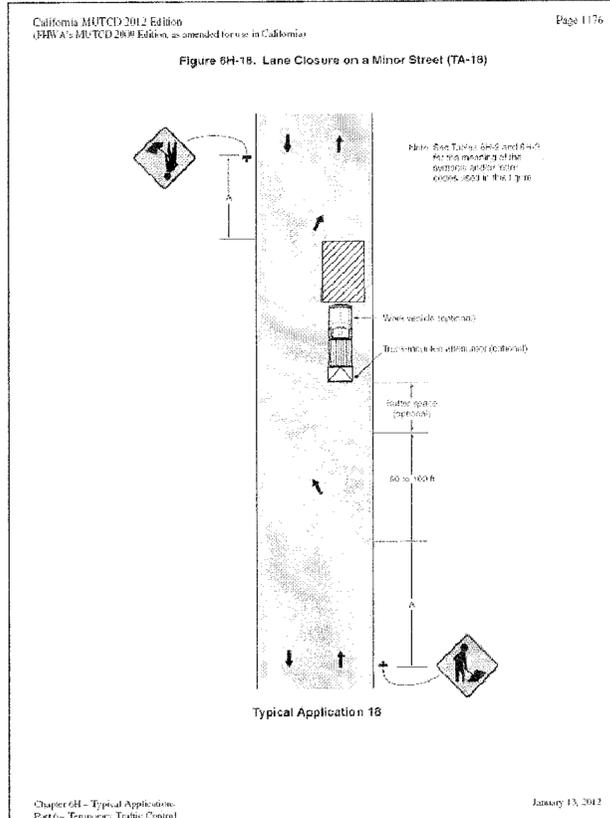
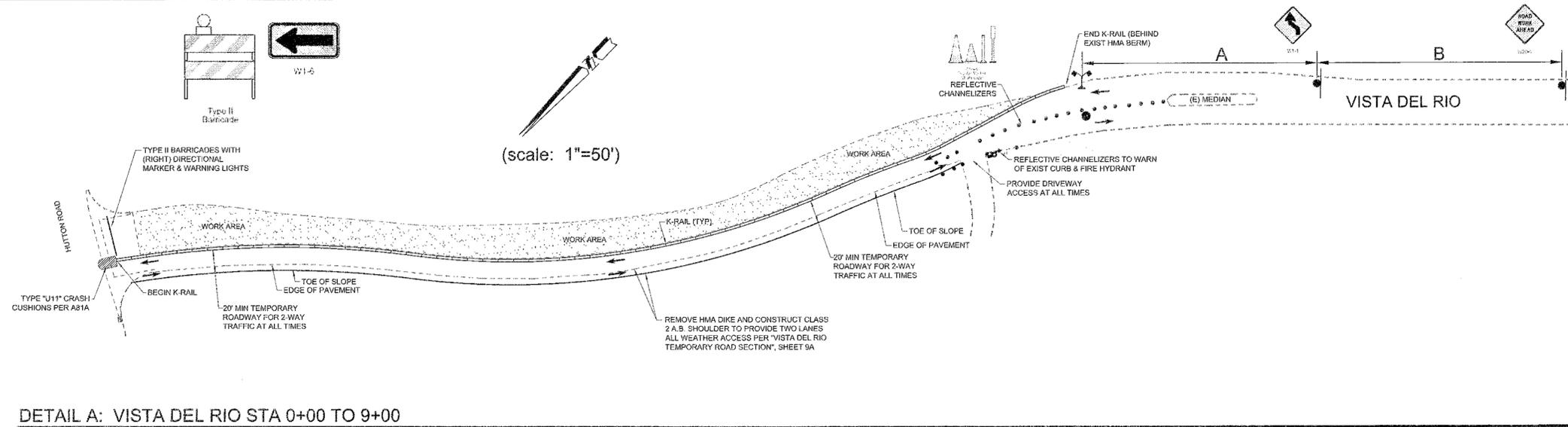


WATERLINE PRESSURE RELIEF VALVE ASSEMBLY
 SCALE: NTS



CONC BROW DITCH
 SCALE: NTS





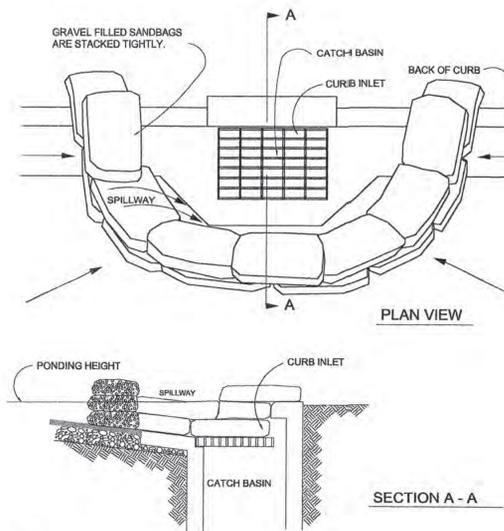
GENERAL EROSION NOTES:

- PROHIBITION OF MOST NON-STORM WATER DISCHARGES**
ONLY STORM WATER FROM THE PROJECT SITE SHALL BE ALLOWED TO FLOW INTO THE PUBLIC STREET SYSTEM. CLEAN, NON-CHLORINATED WATER FROM THE FLUSHING OF FIRE HYDRANTS, WATER MAINS, AND STORM DRAINS MAY BE DISCHARGED TO THE STREET IF IT IS NOT ALLOWED TO COLLECT DIRT, DEBRIS AND TRASH WHILE FLOWING TO THE STREET.
- SOURCES OF STORM WATER POLLUTANTS**
STORM WATER POLLUTANTS INCLUDE SOIL, SEDIMENT AND NUTRIENTS, OIL, GREASE, TOXIC POLLUTANTS, HEAVY METALS, PAINT, AND STUCCO. SOURCES OF STORM WATER POLLUTANTS INCLUDE SOIL EROSION BY WATER AND/OR WIND; CLEARING OF VEGETATION; GRADING; VEHICLE AND EQUIPMENT REFUELING AND MAINTENANCE; WASHING OF CONCRETE TRUCKS, MIXERS AND HANDLING REQUIREMENT; PAINTS, SOLVENTS, ADHESIVES; LANDSCAPING WORK; ROOFING AND BUILDING MATERIALS; AND PETROLEUM PRODUCTS.
- EROSION AND SEDIMENT CONTROLS**
 - COVER EXPOSED STOCKPILES OF SOILS, CONSTRUCTION MATERIALS, AND LANDSCAPING MATERIALS WITH HEAVY PLASTIC SHEETING.
 - IN LANDSCAPING AREAS WHERE THE VEGETATION HAS NOT ESTABLISHED GROWTH AND TAKEN HOLD, CONSTRUCT SANDBAG OR DIRT BERM'S OR SILT FENCES AROUND THEIR PERIMETER TO INSURE THAT WATER WILL BE CONTAINED INSIDE THE LANDSCAPING AREA AND THAT IT WILL NOT BE CONVEYED TO A STORM DRAIN INLET.
 - RE-VEGETATE AREAS WHERE LANDSCAPING HAS DIED OR NOT TAKEN HOLD.
 - DIVERT STORM WATER RUNOFF AROUND DISTURBED SOILS WITH BERM'S OR DIRT SWALES.
- OTHER CONTROLS**
 - WASTE DISPOSAL**
 - KEEP WASTE DISPOSAL CONTAINERS COVERED TO PREVENT ENTRY OF STORM WATER.
 - PROVIDE FOR THE WEEKLY (OR MORE FREQUENT, AS NECESSARY) DISPOSAL OF WASTE CONTAINERS.
 - PROVIDE CONTAINERS AT CONVENIENT LOCATIONS AROUND THE SITE.
 - SWEEPING OF SITE**
 - PROVIDE WEEKLY (OR MORE FREQUENT, AS NECESSARY) SWEEPING BY HAND OR MECHANICAL MEANS TO KEEP THE PAVED AREAS OF THE SITE FREE OF DUST, DIRT, AND DEBRIS.
 - DISPOSE OF ACCUMULATED DIRT IN WASTE CONTAINERS, OR HAUL IT OFF THE SITE TO A LANDFILL.
 - SANITARY SEPTIC DISPOSAL**
PORTABLE TOILETS AND OTHER SANITARY FACILITIES SHALL BE SERVICED WEEKLY (OR MORE FREQUENT, AS NECESSARY) AND PUMPED CLEAN BY A WASTE DISPOSAL COMPANY. NO TOXIC OR HAZARDOUS WASTES SHALL BE DISPOSED OF IN A PORTABLE TOILET OR IN THE ON-SITE SANITARY SEWER.
 - SPILLS**
 - STORE ADEQUATE ABSORBENT MATERIAL, RAGS, BROOMS, SHOVELS, AND WASTE CONTAINERS ON THE SITE TO CLEAN-UP SPILLS OR MATERIALS SUCH AS FUEL, PAINT SOLVENTS, OR CLEANERS. CLEAN UP MINOR SPILLS IMMEDIATELY.
 - FOR REPORTABLE QUANTITIES OF A HAZARDOUS OR TOXIC SUBSTANCES, SECURE THE SERVICES OF QUALIFIED PERSONNEL FOR CLEAN-UP AND DISPOSAL.
 - CONTROL OF ALLOWABLE NON-STORM WATER DISCHARGES**
LANDSCAPING IRRIGATION, EROSION CONTROL MEASURES, PIPE FLUSHING AND TESTING PAVEMENT WASHING, AND DE-WATERING ARE ALLOWED IF THEY CANNOT FEASIBLY BE ELIMINATED, COMPLY WITH THIS PLAN. DO NOT CAUSE OR CONTRIBUTE TO A VIOLATION OF WATER QUALITY STANDARDS, AND ARE NOT REQUIRED TO BE PERMITTED BY THE LOCAL REGIONAL WATER QUALITY CONTROL BOARD.
 - VEHICLES AND EQUIPMENT**
 - FIX LEAKS OF FUEL, OIL, AND OTHER SUBSTANCES IMMEDIATELY.
 - PERFORM REFUELING AND SERVICE OF VEHICLES OR EQUIPMENT OFF-SITE WHEN POSSIBLE. IF REFUELING OR SERVICE OF EQUIPMENT IS PERFORMED ON-SITE, THEN PROVIDE AN IMPERVIOUS, CONTAINED AREA WHERE ANY SPILLS CAN BE CONTAINED WITHOUT FLOWING TO A STORM WATER INLET OR INTO THE GROUND.
 - USE DRIP PANS TO CATCH LEAKS AND SMALL SPILLS.
 - CONCRETE TRUCKS, MIXERS, AND HAULING EQUIPMENT
 - DO NOT DISPOSE OF WASHOUT FROM THE WASHING OF CONCRETE TRUCKS, MIXERS, AND HANDLING EQUIPMENT WHERE IT WILL FLOW INTO A STORM WATER INLET OR INTO A PUBLIC STREET.
 - PROVIDE A HOLDING TANK TO RECEIVE ANY WASHOUT FROM CONCRETE EQUIPMENT. DISPOSAL OF TANK CONTENTS SHOULD BE CONDUCTED BY A WASTE HAULING FIRM.
 - PROVIDE A DESIGNATED AREA FOR WASHING ANY VEHICLES OR EQUIPMENT; DRAINAGE FROM THIS AREA SHOULD FLOW TO THE HOLDING TANK.
 - LANDSCAPING OPERATIONS**
 - USE ONLY THE MINIMUM AMOUNT OF LANDSCAPING FERTILIZERS, NUTRIENTS, AND OTHER CHEMICALS THAT ARE NEEDED.
 - DO NOT OVER WATER FERTILIZED OR TREATED LANDSCAPE AREAS, MINIMIZE RUNOFF OF IRRIGATION WATER FROM LANDSCAPING.
 - STORM WATER INLETS**
KEEP ALL ON-SITE STORM WATER INLETS CLEAN AND FREE OF DIRT AND DEBRIS. IN THE EVENT THAT SEDIMENT AND DEBRIS MAY FLOW TO AN INLET, PROVIDE A 6-INCH (MINIMUM) SANDBAG BERM AROUND THE INLET TO TRAP THE DIRT AND DEBRIS AND ALLOW ONLY CLEAN STORM WATER TO ENTER THE INLET (EROSION CONTROL PLAN).

GENERAL EROSION NOTES: (CONTINUED)

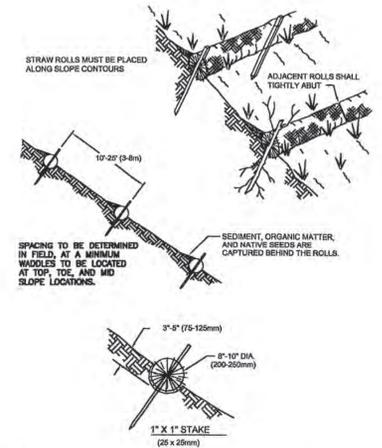
- MAINTENANCE OF CONTROLS**
 - MAINTENANCE AND REPAIR**
ALL CONTROLS AND MEASURES INDICATED ON THIS PLAN SHOULD BE MAINTAINED IN GOOD AND EFFECTIVE CONDITION BY THE CONTRACTOR. IF ANY CONTROL OF MEASURES ARE DAMAGED OR REMOVED, THEY SHOULD BE PROMPTLY REPAIRED OR RESTORED.
 - PLAN REVISIONS**
IF CONSTRUCTION ACTIVITY OR CONDITIONS CHANGE FROM THOSE SHOWN IN THIS PLAN THEN THIS PLAN SHOULD BE REVISED TO REFLECT THE CURRENT CONDITIONS.
- FINAL STABILIZATION AND POST-CONSTRUCTION CONTROLS**
 - AFTER CONSTRUCTION HAS BEEN COMPLETED, THE SITE SHALL BE SWEEPED CLEAN, STORM WATER INLETS (GRATES AND BASINS) SHALL BE CLEANED, AND ALL WASTE AND LEFTOVER MATERIALS SHALL BE REMOVED FROM THE SITE.
 - ALL LANDSCAPING AND PLANTING AREAS SHOULD BE WELL MAINTAINED TO PREVENT EROSION. AVOID OVER-WATERING OF LANDSCAPING.
 - ALL PAVED AREAS SHOULD BE SWEEPED WEEKLY EITHER BY HAND OR BY MECHANICAL MEANS TO KEEP THE SITE CLEAR OF DIRT, DUST, AND DEBRIS.
 - WASTE MATERIALS ON-SITE SHOULD BE STORED IN COVERED CONTAINERS WHICH ARE CLEANED OUT REGULARLY.
 - TESTING OF FIRE HYDRANTS ON-SITE SHALL NOT BE CONDUCTED UNTIL THE AREA WHERE THE WATER DISCHARGES HAS BEEN SWEEPED CLEAN OF DIRT AND DEBRIS.
 - STORM DRAIN LINES SHOULD BE CHECKED AND CLEANED ANNUALLY TO KEEP THEM CLEAN AND CLEAR OF DEBRIS.
 - ALL ON-SITE STORM WATER INLETS SHOULD BE CLEARLY MARKED WITH 4" BLUE LETTERS ON WHITE FIELD "STORM WATER ONLY, THIS DRAINS TO THE OCEAN".
 - THE CONTRACTOR SHALL BE RESPONSIBLE FOR THE PLACEMENT AND MAINTENANCE OF ALL EROSION CONTROL DEVICES AS SPECIFIED BY THE ENGINEER OF WORK OR THE COUNTY OF SAN LUIS OBISPO UNTIL SUCH TIME THAT THE PROJECT ACCEPTED AS COMPLETED BY THE GOVERNING JURISDICTION. THESE DEVICES SHALL BE IN PLACE OR BE READY TO PLACE FROM OCTOBER 15 TO APRIL 15. IN THE EVENT THAT THE DEVICES ARE NOT PERMANENTLY IN PLACE, THEY SHALL BE PLACED IN THE EVENT A FORECAST FOR RAIN EXCEEDS 30%. AN EMERGENCY CREW SHALL BE AVAILABLE 24 HOURS PER DAY IN THE EVENT AN EROSION PROBLEM SHOULD OCCUR. A RESPONSIBLE PERSON AND THEIR PHONE NUMBER SHALL BE NAMED HERE UPON.

NAME:
PHONE:



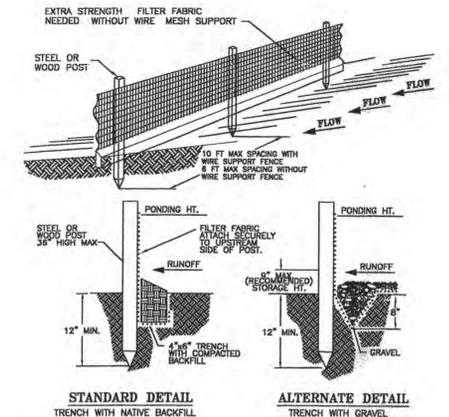
- NOTES:**
- PLACE CURB TYPE SEDIMENT BARRIERS ON GENTLY SLOPING STREET SEGMENTS, WHERE WATER CAN POND AND ALLOW SEDIMENT TO SEPARATE FROM RUNOFF.
 - SANDBAGS, OF EITHER BURLAP OR WOVEN GEOTEXTILE FABRIC, ARE FILLED WITH GRAVEL, LAYERED AND PACKED TIGHTLY.
 - LEAVE ONE SANDBAG GAP IN THE TOP ROW TO PROVIDE A SPILLWAY FOR OVERFLOW.
 - INSPECT BARRIERS AND REMOVE SEDIMENT AFTER EACH STORM EVENT. SEDIMENT AND GRAVEL MUST BE REMOVED FROM THE TRAVELED WAY IMMEDIATELY.

2 CURB INLET SEDIMENT BARRIER



- NOTE:**
- STRAW ROLL INSTALLATION REQUIRES THE PLACEMENT AND SECURE STAKING OF THE ROLL IN A TRENCH, 3"-5" (75-125mm) DEEP, DUG ON CONTOUR. RUNOFF MUST NOT BE ALLOWED TO RUN UNDER OR AROUND ROLL.

2 STRAW ROLL (WATTLE) DETAIL



- NOTE:**
- INSPECT AND REPAIR FENCE AFTER EACH STORM EVENT AND REMOVE SEDIMENT WHEN NECESSARY.
 - REMOVED SEDIMENT SHALL BE DEPOSITED TO AN AREA THAT WILL NOT CONTRIBUTE SEDIMENT OFF-SITE AND CAN BE PERMANENTLY STABILIZED.
 - SILT FENCE SHALL BE PLACED ON SLOPE CONTOURS TO MAXIMIZE PONDING EFFICIENCY.

2 SILT FENCE



REVISIONS			CALILAND ENGINEERING INC. 1216 S. GARFIELD AVE. SUITE 200 ALHAMBRA, CA. 91801 TEL: (626) 281-2288	
DATE	DESCRIPTION	APPROV	PUBLIC IMPROVEMENT PLANS FOR TRACTS 1802 & 1856, MARIA VISTA ESTATES	
			EROSION CONTROL PLAN	
			Design/Drawn	County Plan Check APPROVED FOR COUNTY REQUIREMENTS
				Development Services Engineer Date
			Job No. 03-142	County W.O. No. P11D374 & P11D511
				KEVIN Y. LAI RCE 60981 Date 4-19-01
FILE DATA:			California Coordinates	Sheet 57 of 57
			N 554	E 1264