COUNTY OF SAN MATEO
CALIFORNIA

SCENIC DRIVE REPAIR AND RECONSTRUCTION PROJECT
LA HONDA, CALIFORNIA
[FEDERAL-AID NO. FEMA-4308-DR-CA, CAL OES. 081-00000, PW 1411]

TOTAL PROJECT APPROXIMATELY 0.1 MILES IN LENGTH WITH APPURTENANT WORK THERETO

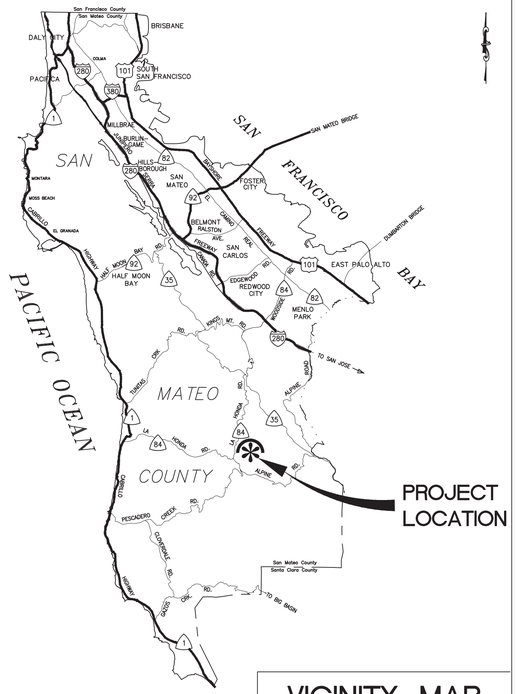
TO BE SUPPLEMENTED BY STATE OF CALIFORNIA DEPARTMENT OF TRANSPORTATION STANDARD PLANS DATED 2018 AND ADOPTED BY SAN MATEO COUNTY, FEBRUARY 11, 2020, BY RESOLUTION NO. 077227

REGISTERED PROFESSIONAL ENGINEER
JAMES C. PORTER
C 48056
EXPIRES 12/31/21
CIVIL
STATE OF CALIFORNIA

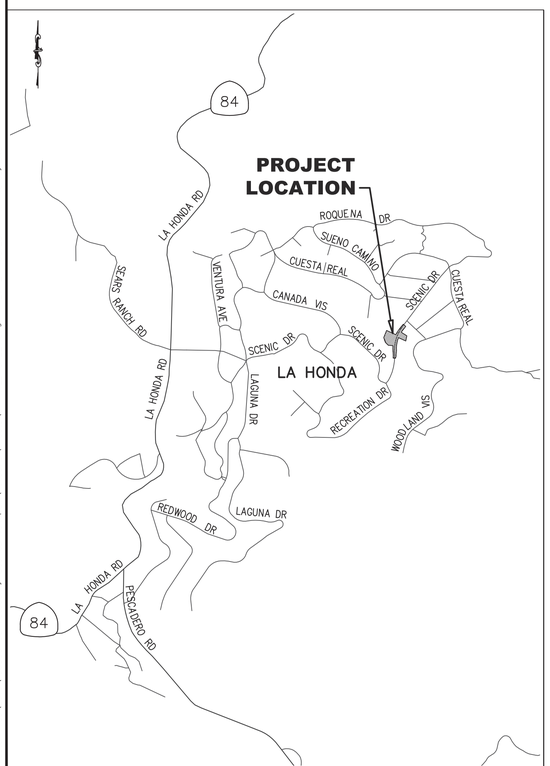
APPROVED: _____
Digitally signed by James C. Porter
DN: cn=James C. Porter, o=Department of Public Works, ou=Director of Public Works, email=jporter@smcgov.org, c=US
Date: 2021.04.29 15:27:15 -07'00'

DATE: 04/29/2021

JAMES C. PORTER, DIRECTOR OF PUBLIC WORKS
R. C. E. # 48056 / EXPIRES 12-31-2021



VICINITY MAP
NOT TO SCALE



LOCATION MAP
1" = 800 feet

ABBREVIATIONS

AB (CL.2)	AGGREGATE BASE (CLASS 2)
AC	ASPHALT CONCRETE
APPROX	APPROXIMATE
BVCE	BEGINNING OF VERTICAL CURVE ELEVATION
BVCS	BEGINNING OF VERTICAL CURVE STATION
BOT	BOTTOM
BTW	BETWEEN
BW	BOTTOM OF WALL
CIDH	CAST-IN-DRILLED-HOLE
CIP	CAST-IN-PLACE
CONC	CONCRETE
CONST	CONSTRUCTION
CL	CENTERLINE, CHAIN LINK, CLASS
CLR	CLEAR
CP	CONTROL POINT
DI	DRAINAGE INLET, DROP INLET
DIA, ø	DIAMETER
DR	DRIVE
ELEV	ELEVATION
EMB	EMBANKMENT
EP	EDGE OF PAVEMENT
EVCE	ENDING OF VERTICAL CURVE ELEVATION
EVCS	ENDING OF VERTICAL CURVE STATION
EX, EXIST	EXISTING
EXC	EXCAVATION
FG	FINISH GROUND
FL	FLOW LINE
FTG	FOOTING
GCP	GROUND CONTROL POINT
GRE	GEOGRID-REINFORCED EMBANKMENT
HDPE	HIGH-DENSITY POLYETHYLENE
HMA	HOT MIX ASPHALT
K	CURVE COEFFICIENT
LOL	LAYOUT LINE
LT, L	LEFT, LENGTH
MAX	MAXIMUM
MSE	MECHANICALLY STABILIZED EARTH
MIN	MINIMUM
NO.	NUMBER
O.C.	ON CENTER
OG	ORIGINAL GROUND, ON GRADE
PCC	PORTLAND CONCRETE CEMENT
PERF	PERFORATED
PR	PROPOSED
PVC	POLYVINYL CHLORIDE PIPE
PVI	POINT OF VERTICAL INTERSECTION
PVMT	PAVEMENT
RCP	REINFORCED CONCRETE PIPE
REINF	REINFORCEMENT
REL COMP	RELATIVE COMPACTION
RET	RETAINING
RSP	ROCK SLOPE PROTECTION
RT, R	RIGHT
R/W, ROW	RIGHT OF WAY
S	SLOPE
SD	STORM DRAIN
SDMH	STORM DRAIN MANHOLE
SHT	SHEET
ST	STREET
STA	STATION
STD	STANDARD
STR	STRUCTURE
TT	TOP OF TRENCH (SUBDRAIN)
TW	TOP OF WALL
TYP	TYPICAL
UON	UNLESS OTHERWISE NOTED
VAR	VARIES
WWM	WELDED WIRE MESH

LEGEND

- DETAIL NUMBER AND SHEET
- NEW TREE
- EXISTING TREE TO BE REMOVED
- TEMPORARY PROJECT CONTROL POINT
- RIGHT OF WAY
- GROUND ANCHOR
- ESA — TEMP FENCE (ESA)
- TEMP CHAIN-LINK FENCE/GATE
- NATIVE BACKFILL
- CLASS 2 AGGREGATE BASE – AB (CL. 2) (GRAVEL)
- PORTLAND CEMENT CONCRETE
- MISCELLANEOUS ASPHALT CONCRETE
- ROCK SWALE AND FRENCH DRAIN
- LIMITS OF CLEARING AND GRUBBING
- LIMITS OF PAVEMENT REMOVAL

NOTES

1. CONTRACTOR SHALL CONFINE THEIR OPERATIONS AND ACTIVITIES WITHIN THE PROJECT LIMITS, CONSISTING OF ROAD RIGHT-OF-WAY, RIGHTS OF ENTRY AND/OR PROJECT CONFORMS, AS SHOWN ON THE PLANS AND AS DIRECTED BY THE ENGINEER.
2. CONTINUOUS DUST CONTROL SHALL BE PROVIDED AS REQUIRED BY THE COUNTY AND AS DIRECTED BY THE ENGINEER.
3. LOCATIONS AND DEPTHS OF EXISTING UTILITIES SHOWN ON THE PLANS ARE APPROXIMATE ONLY. CONTRACTOR SHALL BE RESPONSIBLE FOR CONTACTING THE UTILITIES TO DETERMINE EXACT LOCATIONS AND DEPTHS. CONTRACTOR SHALL CALL USA NORTH 811 (USA) UNDERGROUND SERVICE ALERT A MINIMUM OF 72 HOURS IN ADVANCE OF ANY EXCAVATION OR TRENCHING WORK. USA MAY BE CONTACTED EITHER ONLINE AT USANORTH811.ORG OR BY PHONE BY DIALING (800) 642-2444 OR 811. WHEN CALLING, BE PREPARED TO GIVE LOCATION AND NATURE OF WORK, START DATE, COMPANY NAME, ADDRESS AND TELEPHONE NUMBER.
4. PLANS MAY NOT SHOW ALL EXISTING WATER, GAS, OR SANITARY SEWER LATERALS. CONTRACTOR SHALL BE RESPONSIBLE FOR VERIFICATION AND PRESERVATION OF ALL SUCH FACILITIES WHICH ARE NOT TO BE RELOCATED.
5. CONTRACTOR IS ADVISED THAT EXCAVATION MAY CONFLICT WITH SANITARY SEWER LATERALS, GAS LINES, WATER LINES, AND OTHER UNDERGROUND UTILITIES. ANY DAMAGE TO EXISTING FACILITIES CAUSED BY THE CONTRACTOR SHALL BE REPAIRED AT THE CONTRACTOR'S EXPENSE.
6. DRIVEWAY OPENINGS AND CONFORM LOCATIONS SHOWN ARE APPROXIMATE ONLY. EXACT LOCATIONS WILL BE DETERMINED IN THE FIELD BY THE ENGINEER. SURFACED SHOULDER CONFORM LIMITS ARE AS INDICATED AT 3 FEET FROM OUTSIDE EDGE OF THE GUTTER, UNLESS DIRECTED OTHERWISE BY THE ENGINEER IN WRITING OR OTHERWISE NOTED ON THE PLANS.
7. NO TREES, VEGETATION OR IMPROVEMENTS (INCLUDING FENCES) SHALL BE REMOVED WITHOUT THE PRIOR WRITTEN CONSENT AND APPROVAL OF THE ENGINEER. VEGETATION AND IMPROVEMENTS WHICH ARE DESIGNATED TO BE REMOVED SHALL BECOME THE PROPERTY OF THE CONTRACTOR, UNLESS OTHERWISE DIRECTED BY THE ENGINEER IN WRITING.
8. THE CONTRACTOR'S ATTENTION IS DIRECTED TO SECTION 5-1.26 OF THE STANDARD SPECIFICATIONS. THE SURVEY AND ASSOCIATED STAKING SHALL BE IN CONFORMANCE WITH SECTION 100, CONSTRUCTION STAKING AND LAYOUT OF THE SPECIAL PROVISIONS.
9. WHEN DIRECTED BY THE ENGINEER, CUT AND FILL SLOPE RATIOS SHALL BE VARIED TO AVOID TREES OR OTHER EXISTING IMPROVEMENTS.
10. CONTRACTOR SHALL EXERCISE CARE WHEN EXCAVATING NEAR TREES AND ROOTS OF TREES TO REMAIN. SEE SECTIONS 17 AND 19 OF THE SPECIAL PROVISIONS.
11. ANY DAMAGE, AS A RESULT OF THE CONTRACTOR'S OPERATION, TO PAVEMENT AND BASE MATERIAL THAT IS TO REMAIN SHALL BE REPAIRED, OR REMOVED AND REPLACED WITH SAME TYPE OF MATERIAL OR APPROVED EQUAL, AS DIRECTED BY THE ENGINEER, AND AT THE SOLE EXPENSE OF THE CONTRACTOR. THE ENGINEER SHALL BE THE SOLE JUDGE OF THE ADEQUACY OF THE COMPLETED REMEDIAL WORK.
12. LIME, IF NECESSARY AND AS DETERMINED BY THE PROJECT GEOTECHNICAL ENGINEER, IS TO BE USED WHERE WET SOIL CONDITIONS EXIST AND INHIBIT ADEQUATE PLACEMENT AND COMPACTION OF GRE EMBANKMENT BACKFILL PER PROJECT SPECIFICATIONS AND AS DIRECTED BY THE PROJECT GEOTECHNICAL ENGINEER.

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5. SITE PLAN
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11. SCENIC DR TYPICAL SECTIONS (1 OF 3)
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19. CONSTRUCTION DETAILS (4 OF 5)
20. CONSTRUCTION DETAILS (5 OF 5)
21. CROSS SECTIONS (1 OF 2)
22. CROSS SECTIONS (2 OF 2)

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Phone: (408) 440-4542

APPROVED DATE: 04-29-2021

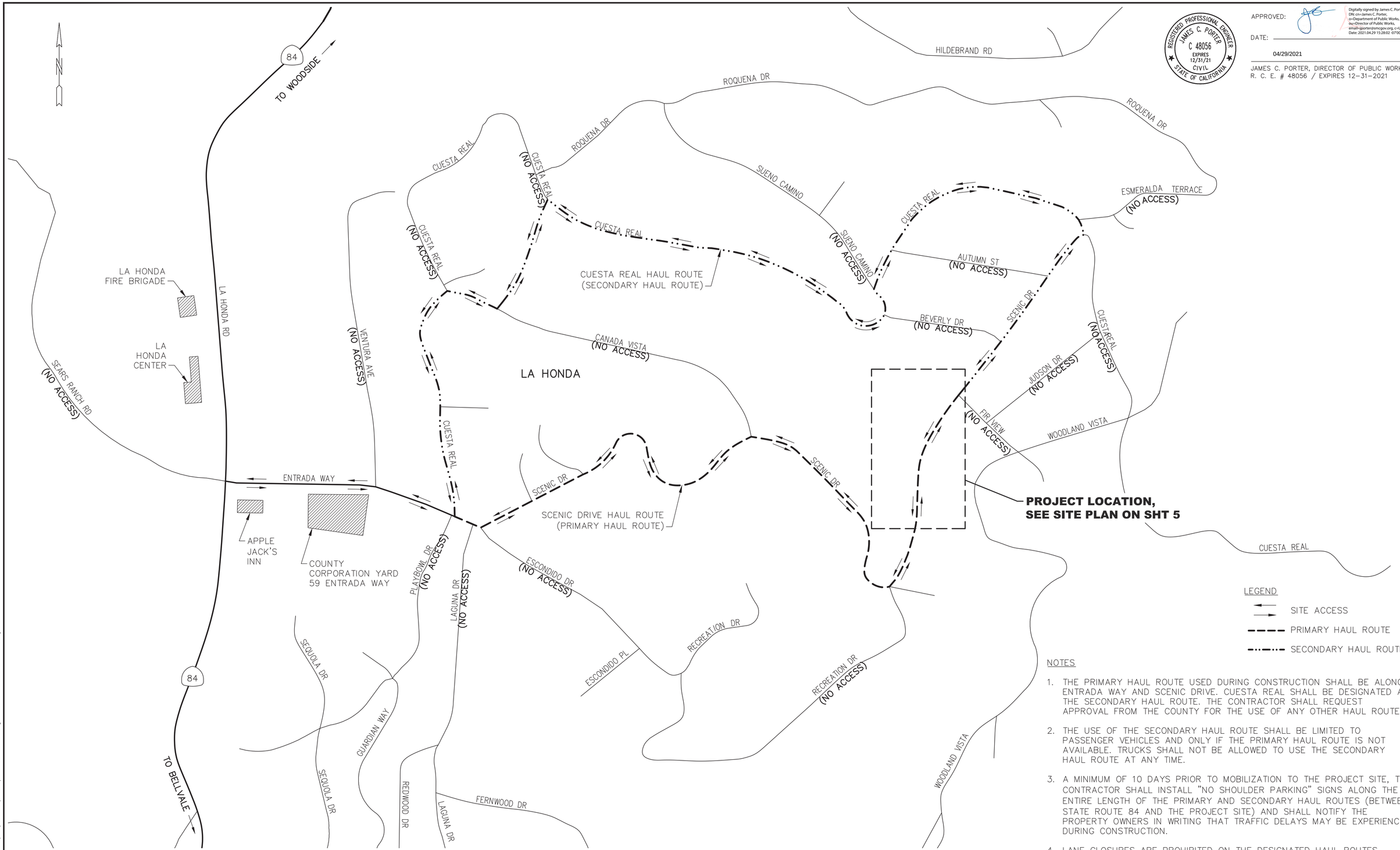
CHRIS HOCKETT, P.E., G.E., PRINCIPAL ENGINEER
CAL ENGINEERING & GEOLOGY, INC.
R.C.E. # 71938, R.G.E. # 2928 / EXP 12-31-21

REGISTERED PROFESSIONAL ENGINEER
CHRISTOPHER A. HOCKETT
No. Geo GE 2928
No. Civil C 71938
CIVIL-GEOTECHNICAL
STATE OF CALIFORNIA

COUNTY OF SAN MATEO PUBLIC WORKS

REVISION	DATE	DESIGNED BY: MV	SCENIC DR REPAIR AND RECONSTRUCTION PROJECT	SCALE: AS SHOWN
		DRAWN BY: RL	LA HONDA, CALIFORNIA	DATE: 4/29/2021
		CHECKED BY: CH	TITLE SHEET	FILE NO.: E4976
		JAMES C. PORTER, DIRECTOR OF PUBLIC WORKS COUNTY OF SAN MATEO	555 COUNTY CENTER, 5th FLOOR REDWOOD CITY, CALIFORNIA 94063	
		FOR REDUCED PLANS ORIGINAL SCALE IS IN INCHES 0 1 2 3 4		SHEET 1 OF 22

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REGISTERED PROFESSIONAL ENGINEER
JAMES C. PORTER
C 48056
EXPIRES 12/31/21
CIVIL
STATE OF CALIFORNIA

APPROVED:

Digitally signed by James C. Porter
DN: cn=James C. Porter, o=Department of Public Works, ou=Director of Public Works, email=jporter@smcgov.org, c=US
Date: 2021.04.29 15:28:02 -07'00'

DATE: 04/29/2021

JAMES C. PORTER, DIRECTOR OF PUBLIC WORKS
R. C. E. # 48056 / EXPIRES 12-31-2021

LEGEND

- SITE ACCESS
- PRIMARY HAUL ROUTE
- SECONDARY HAUL ROUTE

NOTES

1. THE PRIMARY HAUL ROUTE USED DURING CONSTRUCTION SHALL BE ALONG ENTRADA WAY AND SCENIC DRIVE. CUESTA REAL SHALL BE DESIGNATED AS THE SECONDARY HAUL ROUTE. THE CONTRACTOR SHALL REQUEST APPROVAL FROM THE COUNTY FOR THE USE OF ANY OTHER HAUL ROUTES.
2. THE USE OF THE SECONDARY HAUL ROUTE SHALL BE LIMITED TO PASSENGER VEHICLES AND ONLY IF THE PRIMARY HAUL ROUTE IS NOT AVAILABLE. TRUCKS SHALL NOT BE ALLOWED TO USE THE SECONDARY HAUL ROUTE AT ANY TIME.
3. A MINIMUM OF 10 DAYS PRIOR TO MOBILIZATION TO THE PROJECT SITE, THE CONTRACTOR SHALL INSTALL "NO SHOULDER PARKING" SIGNS ALONG THE ENTIRE LENGTH OF THE PRIMARY AND SECONDARY HAUL ROUTES (BETWEEN STATE ROUTE 84 AND THE PROJECT SITE) AND SHALL NOTIFY THE PROPERTY OWNERS IN WRITING THAT TRAFFIC DELAYS MAY BE EXPERIENCED DURING CONSTRUCTION.
4. LANE CLOSURES ARE PROHIBITED ON THE DESIGNATED HAUL ROUTES DURING CONSTRUCTION.

150 0 150 300
SCALE FEET

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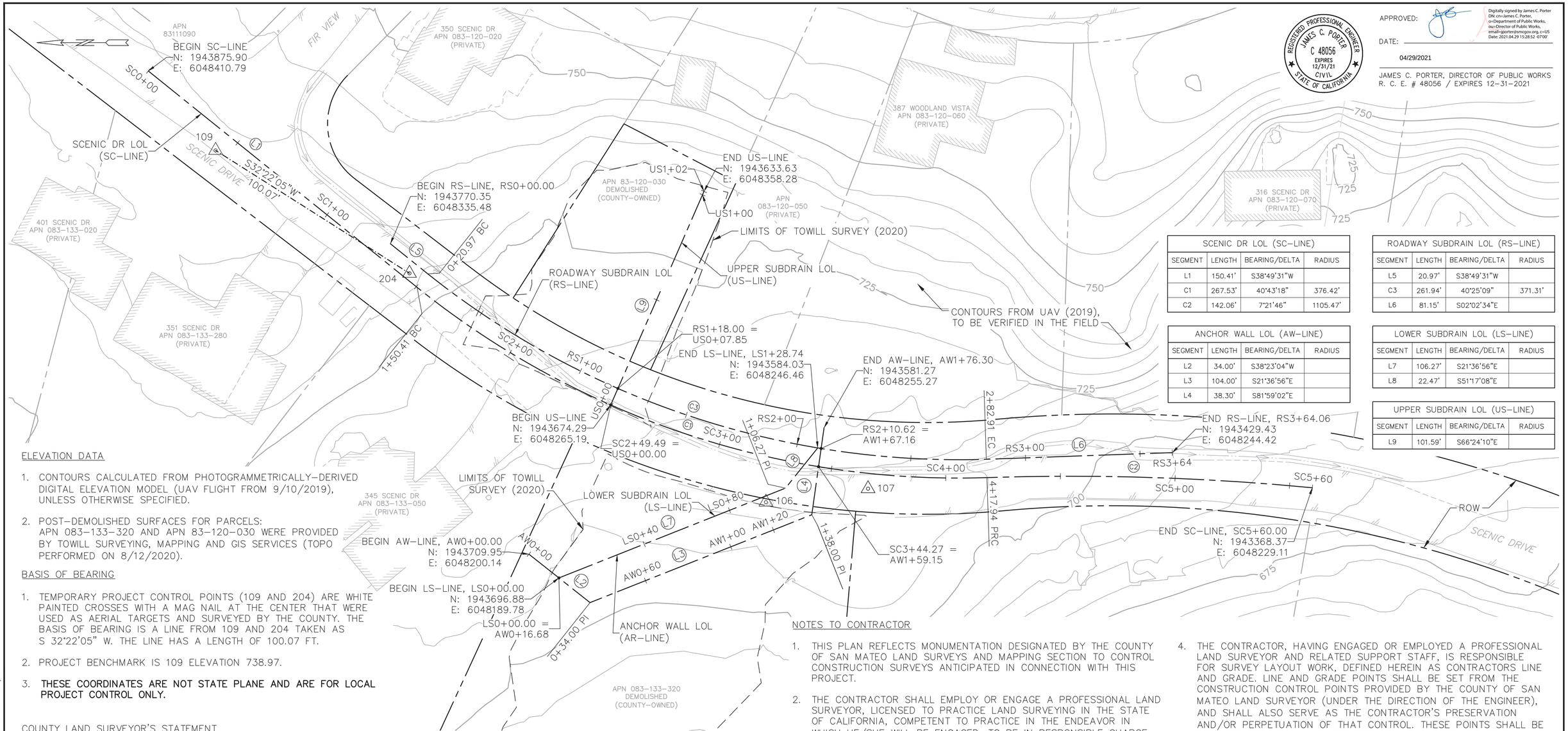
COUNTY OF SAN MATEO
PUBLIC WORKS

REVISION	DATE	DESIGNED BY: MV	SCENIC DR REPAIR AND RECONSTRUCTION PROJECT	SCALE: 1" = 150'
		DRAWN BY: RL	LA HONDA, CALIFORNIA	DATE: 4/29/2021
		CHECKED BY: CH	HAUL ROUTES	FILE NO.: E4976
		JAMES C. PORTER, DIRECTOR OF PUBLIC WORKS COUNTY OF SAN MATEO	555 COUNTY CENTER, 5th FLOOR REDWOOD CITY, CALIFORNIA 94063	

FOR REDUCED PLANS ORIGINAL SCALE IS IN INCHES 0 1 2 3 4

SHEET 2 OF 22

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SCENIC DR LOL (SC–LINE)			
SEGMENT	LENGTH	BEARING/DELTA	RADIUS
L1	150.41'	S38°49'31"W	
C1	267.53'	40°43'18"	376.42'
C2	142.06'	7°21'46"	1105.47'

ROADWAY SUBDRAIN LOL (RS–LINE)			
SEGMENT	LENGTH	BEARING/DELTA	RADIUS
L5	20.97'	S38°49'31"W	
C3	261.94'	40°25'09"	371.31'
L6	81.15'	S02°02'34"E	

ANCHOR WALL LOL (AW–LINE)			
SEGMENT	LENGTH	BEARING/DELTA	RADIUS
L2	34.00'	S38°23'04"W	
L3	104.00'	S21°36'56"E	
L4	38.30'	S81°59'02"E	

LOWER SUBDRAIN LOL (LS–LINE)			
SEGMENT	LENGTH	BEARING/DELTA	RADIUS
L7	106.27'	S21°36'56"E	
L8	22.47'	S51°17'08"E	

UPPER SUBDRAIN LOL (US–LINE)			
SEGMENT	LENGTH	BEARING/DELTA	RADIUS
L9	101.59'	S66°24'10"E	

ELEVATION DATA

1. CONTOURS CALCULATED FROM PHOTOGRAMMETRICALLY–DERIVED DIGITAL ELEVATION MODEL (UAV FLIGHT FROM 9/10/2019), UNLESS OTHERWISE SPECIFIED.
2. POST–DEMOLISHED SURFACES FOR PARCELS: APN 083–133–320 AND APN 83–120–030 WERE PROVIDED BY TOWILL SURVEYING, MAPPING AND GIS SERVICES (TOPO PERFORMED ON 8/12/2020).

BASIS OF BEARING

1. TEMPORARY PROJECT CONTROL POINTS (109 AND 204) ARE WHITE PAINTED CROSSES WITH A MAG NAIL AT THE CENTER THAT WERE USED AS AERIAL TARGETS AND SURVEYED BY THE COUNTY. THE BASIS OF BEARING IS A LINE FROM 109 AND 204 TAKEN AS S 32°22'05" W. THE LINE HAS A LENGTH OF 100.07 FT.
2. PROJECT BENCHMARK IS 109 ELEVATION 738.97.
3. **THESE COORDINATES ARE NOT STATE PLANE AND ARE FOR LOCAL PROJECT CONTROL ONLY.**

COUNTY LAND SURVEYOR'S STATEMENT

THIS SURVEY CONTROL PLAN HAS BEEN EXAMINED BY ME, OR BY A PROFESSIONAL LAND SURVEYOR UNDER MY DIRECTION, PURSUANT TO SEC. 8726 OF THE BUSINESS AND PROFESSIONS CODE OF THE STATE OF CALIFORNIA. I HEREBY STATE THAT THE INFORMATION AND EXISTING MONUMENTATION SHOWN HEREON IS A SUFFICIENT BASIS FROM WHICH THE CONSTRUCTION LINES AND GRADES CAN BE SET, AND THAT THE MONUMENT DESCRIPTIONS ARE SUFFICIENT TO ALLOW FOR RECOVERY AND IDENTIFICATION BY SOMEONE WHO IS UNFAMILIAR WITH THE AREA. I HAVE ALSO EXAMINED THE ASSOCIATED ELECTRONIC FILES FOR THIS SURVEY CONTROL PLAN AND, TO THE BEST OF MY KNOWLEDGE, INFORMATION, AND BELIEF, THESE FILES ACCURATELY REPRESENT THE SAME INFORMATION SHOWN HEREON.

LICENSED LAND SURVEYOR ADRIAN VERHAGEN 9189 STATE OF CALIFORNIA

ADRIAN VERHAGEN
COUNTY SURVEYOR
L.S. NO. 9189

DATE: APRIL 19TH, 2021

PROJECT CONTROL TABLE				
POINT ID	ELEVATION	NORTHING	EASTING	DESCRIPTION
106	711.52	1943606.61	6048222.81	FD MAG&WASHER
107	709.16	1943562.05	6048228.62	FLIGHT X ON MON WELL LID
109	738.97	1943846.57	6048376.19	FD PK NAIL
204	730.62	1943762.05	6048322.61	FD MAG&WASHER FM4

GENERAL NOTE

1. THE COUNTY OF SAN MATEO DOES NOT PROVIDE CAD FILES TO THE CONTRACTORS.

BOUNDARY SURVEY

1. BOUNDARY INFORMATION ARE BASED ON BOUNDARY SURVEY COMPLETED BY BEAR FLAG ENGINEERING, INC. ON NOVEMBER 22, 2019.

NOTES TO CONTRACTOR

1. THIS PLAN REFLECTS MONUMENTATION DESIGNATED BY THE COUNTY OF SAN MATEO LAND SURVEYS AND MAPPING SECTION TO CONTROL CONSTRUCTION SURVEYS ANTICIPATED IN CONNECTION WITH THIS PROJECT.
2. THE CONTRACTOR SHALL EMPLOY OR ENGAGE A PROFESSIONAL LAND SURVEYOR, LICENSED TO PRACTICE LAND SURVEYING IN THE STATE OF CALIFORNIA, COMPETENT TO PRACTICE IN THE ENDEAVOR IN WHICH HE/SHE WILL BE ENGAGED, TO BE IN RESPONSIBLE CHARGE OF ALL SURVEYING AND RELATED LAYOUT WORK WHICH THE CONTRACTOR IS REQUIRED TO PERFORM IN ORDER TO CONSTRUCT THE INTENDED IMPROVEMENTS IN CONFORMANCE WITH DESIGN. (RESPONSIBLE CHARGE REQUIREMENTS PURSUANT TO STATE OF CALIFORNIA CODE OF REGULATIONS, TITLE 16, CHAPTER 5, STATE OF CALIFORNIA, SECTION 404.2 "DEFINITION OF RESPONSIBLE CHARGE FOR LAND SURVEYORS," AND SECTION 415 "PRACTICE WITHIN AREA OF COMPETENCE.")
3. THE CONTRACTOR SHALL SUBMIT A LETTER FROM THE PROFESSIONAL LAND SURVEYOR OR ENGINEER LICENSED TO PRACTICE LAND SURVEYING, INDICATING HIS/HER EMPLOYMENT BY THE CONTRACTOR IN RESPONSIBLE CHARGE. THIS LETTER SHALL BE SIGNED BY AND BEAR THE PROFESSIONAL SEAL OF THE INDIVIDUAL (NOT THE COMPANY) ENGAGED IN THAT CAPACITY. THIS LETTER SHALL BE SUBMITTED TO THE ENGINEER PRIOR TO THE COMMENCEMENT OF WORK ALONG WITH A COPY TO THE COUNTY OF SAN MATEO LAND SURVEYOR.
4. THE CONTRACTOR, HAVING ENGAGED OR EMPLOYED A PROFESSIONAL LAND SURVEYOR AND RELATED SUPPORT STAFF, IS RESPONSIBLE FOR SURVEY LAYOUT WORK, DEFINED HEREIN AS CONTRACTORS LINE AND GRADE. LINE AND GRADE POINTS SHALL BE SET FROM THE CONSTRUCTION CONTROL POINTS PROVIDED BY THE COUNTY OF SAN MATEO LAND SURVEYOR (UNDER THE DIRECTION OF THE ENGINEER), AND SHALL ALSO SERVE AS THE CONTRACTOR'S PRESERVATION AND/OR PERPETUATION OF THAT CONTROL. THESE POINTS SHALL BE SET WITH PRECISION AND METHODS COMMENSURATE WITH THE TOLERANCES REQUIRED BY THE INTENDED CONSTRUCTION.
5. THE CONTRACTOR SHALL CHECK AND VERIFY THE INTERNAL INTEGRITY OF THE PROJECT CONTROL AND CONSTRUCTION CONTROL TO ITS OWN SATISFACTION AND SHALL NOTIFY THE ENGINEER OF ANY APPARENT DISCREPANCY PRIOR TO USE FOR LAYOUT OF LINE AND GRADE POINTS.
6. COUNTY OF SAN MATEO MONUMENTS AND CONTROL POINTS ARE TO BE PROTECTED FROM DAMAGE AND PRESERVED BY THE CONTRACTOR. IN THE EVENT THAT ANY MONUMENT OR CONTROL POINT IS TO BE LOST PRIOR TO CONSTRUCTION, DESTROYED, OR COVERED BY WORK PERFORMED IN CONJUNCTION WITH THIS CONTRACT, THE CONTRACTOR SHALL PROVIDE NO GREATER THAN 14 DAYS AND A MINIMUM OF TWO WORKING DAYS NOTICE TO THE COUNTY SURVEYOR OFFICE (650–599–1410) PRIOR TO ANY SUCH WORK SO THAT THE MONUMENTS MAY BE REFERENCED OR REPLACED. IN THE EVENT THAT NO NOTICE IS GIVEN AND THE MONUMENTS ARE LOST, ALTERED, OR DESTROYED, THE CONTRACTOR SHALL BE RESPONSIBLE FOR THE FULL REPLACEMENT COSTS.

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SCALE FEET

REGISTERED PROFESSIONAL ENGINEER JAMES C. PORTER C 48056 EXPIRES 12/31/21 CIVIL STATE OF CALIFORNIA

APPROVED: Digitally signed by James C. Porter DN: cn=James C. Porter, o=Department of Public Works, ou=Director of Public Works, email=jporter@smcgov.org, c=US Date: 2021.04.29 15:28:52 -07'00'

DATE: 04/29/2021

JAMES C. PORTER, DIRECTOR OF PUBLIC WORKS
R. C. E. # 48056 / EXPIRES 12–31–2021

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R.C.E. # 71938, R.G.E. # 2928 / EXP 12–31–21

REGISTERED PROFESSIONAL ENGINEER CHRISTOPHER A. HOCKETT No. Geo GE 2928 No. Civil C 71938 CIVIL–GEOTECHNICAL STATE OF CALIFORNIA

COUNTY OF SAN MATEO PUBLIC WORKS

REVISION	DATE	DESIGNED BY: MV	SCENIC DR REPAIR AND RECONSTRUCTION PROJECT	SCALE: 1" = 20'
		DRAWN BY: RL	LA HONDA, CALIFORNIA	DATE: 4/29/2021
		CHECKED BY: CH	SURVEY CONTROL PLAN	FILE NO.: E4976
		JAMES C. PORTER, DIRECTOR OF PUBLIC WORKS COUNTY OF SAN MATEO	555 COUNTY CENTER, 5th FLOOR REDWOOD CITY, CALIFORNIA 94063	
		FOR REDUCED PLANS ORIGINAL SCALE IS IN INCHES 0 1 2 3 4		SHEET 3 OF 22

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APPROVED:

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Digitally signed by James C. Porter
DN: cn=James C. Porter, o=Department of Public Works, ou=Director of Public Works, email=jporter@smcgov.org, c=US
Date: 2021.04.29 15:30:26 -07'00'

JAMES C. PORTER, DIRECTOR OF PUBLIC WORKS
R. C. E. # 48056 / EXPIRES 12-31-2021

REGISTERED PROFESSIONAL ENGINEER
JAMES C. PORTER
C 48056
EXPIRES 12/31/21
CIVIL
STATE OF CALIFORNIA

SC0+00
SC1+00
SC2+00
SC3+00
SC4+00
SC5+00
SC5+60
SCENIC DR LOL
SCENIC DR LOL, STA 1+10.00 BEGIN PAVEMENT, AC DITCH, AND AC DIKE REMOVAL
SCENIC DR LOL, STA SC5+00.00 END PAVEMENT, AC DITCH, AND AC DIKE REMOVAL
SCENIC DRIVE
EXIST SWALE
FIR WIEW
APN 83111090
350 SCENIC DR APN 083-120-020 (PRIVATE)
387 WOODLAND VISTA APN 083-120-060 (PRIVATE)
316 SCENIC DR APN 083-120-070 (PRIVATE)
310 SCENIC DR APN 083-120-080 (PRIVATE)
401 SCENIC DR APN 083-133-020 (PRIVATE)
351 SCENIC DR APN 083-133-280 (PRIVATE)
345 SCENIC DR APN 083-133-050 (PRIVATE)
APN 083-120-030 DEMOLISHED (COUNTY-OWNED)
APN 083-120-050 (PRIVATE)
APN 083-133-320 DEMOLISHED (COUNTY-OWNED)
APN 083-133-330 (PRIVATE)
APN 083-133-080 (COUNTY OWNED)
TEMP CL FENCE/GATE
ACCESS TO 351 SCENIC DR DRIVEWAY SHALL BE MAINTAINED
ACCESS TO 316 SCENIC DR DRIVEWAY SHALL BE MAINTAINED, UNLESS OTHERWISE APPROVED IN WRITING BY THE ENGINEER
APPROX LIMITS OF CLEARING AND GRUBBING
STAGING AREA
DESTROY EX INCLINOMETER WELL, TYP, 2 TOTAL
REMOVE EX DRIVEWAY CULVERT
APPROX LIMITS OF PAVEMENT REMOVAL
APPROX LIMITS OF PAVEMENT AND AC DITCH REMOVAL
REMOVE EX FENCE/BARRIER
REMOVE EX OUT OF SERVICE FIRE HYDRANT
TREES TO BE REMOVED (SEE NOTE 1)
TEMP CHAIN-LINK FENCE/GATE, TYP
REMOVE EX AC DIKE
EXIST AC DIKE
40' ROW
REMOVE TREES (TYP)
I-1
I-2
750
740
730
720
710
700
690
680
670
660
650
640
630

NOTES:

1) REFERENCE IS MADE TO SECTION 17-1, "TREE REMOVAL," OF THE PROJECT SPECIFICATIONS.

LEGEND

- REMOVE TREE
- LIMITS OF PAVEMENT REMOVAL
- APPROXIMATE LIMITS OF CLEARING AND GRUBBING

20 0 20 40
SCALE FEET

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APPROVED DATE: 04-29-2021

CHRIS HOCKETT, P.E., G.E., PRINCIPAL ENGINEER
CAL ENGINEERING & GEOLOGY, INC.
R.C.E. # 71938, R.G.E. # 2928 / EXP 12-31-21

REGISTERED PROFESSIONAL ENGINEER
CHRISTOPHER A. HOCKETT
No. Geo GE 2928
No. Civil C 71938
GEOTECHNICAL
STATE OF CALIFORNIA

COUNTY OF SAN MATEO
PUBLIC WORKS

REVISION	DATE	DESIGNED BY: MV	SCENIC DR REPAIR AND RECONSTRUCTION PROJECT LA HONDA, CALIFORNIA	SCALE: 1" = 20'
		DRAWN BY: RL		DATE: 4/29/2021
		CHECKED BY: CH	DEMOLITION AND STAGING PLAN	FILE NO.: E4976
		JAMES C. PORTER, DIRECTOR OF PUBLIC WORKS COUNTY OF SAN MATEO	555 COUNTY CENTER, 5th FLOOR REDWOOD CITY, CALIFORNIA 94063	
		FOR REDUCED PLANS ORIGINAL SCALE IS IN INCHES 0 1 2 3 4		SHEET 4 OF 22

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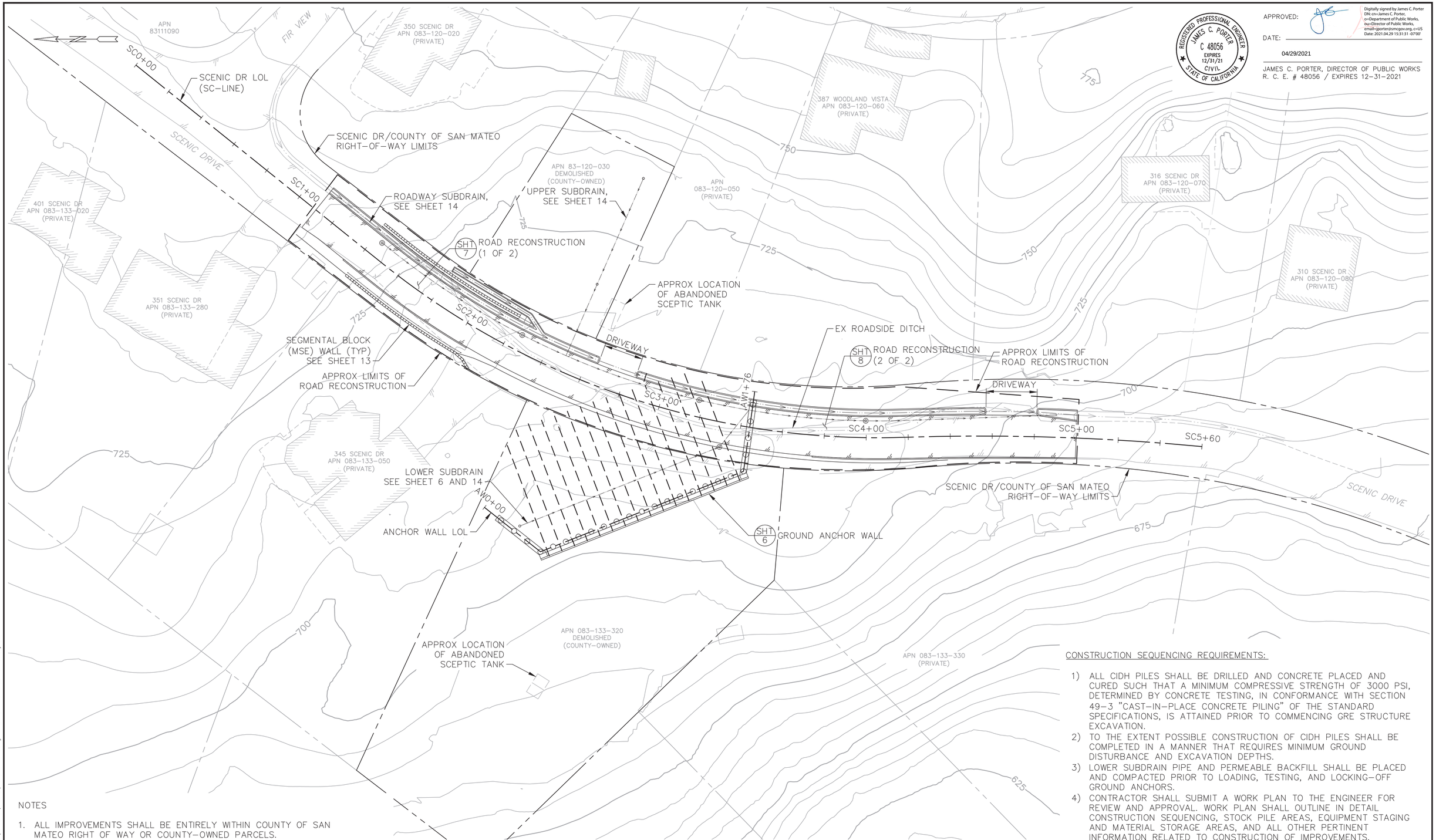
APPROVED:

DATE: 04/29/2021

JAMES C. PORTER, DIRECTOR OF PUBLIC WORKS
R. C. E. # 48056 / EXPIRES 12-31-2021

REGISTERED PROFESSIONAL ENGINEER
JAMES C. PORTER
C 48056
EXPIRES 12/31/21
CIVIL
STATE OF CALIFORNIA

Digitally signed by James C. Porter
DN: cn=James C. Porter, o=Department of Public Works, ou=Director of Public Works, email=jporter@smcgov.org, c=US
Date: 2021.04.29 15:31:31 -07'00'



NOTES

1. ALL IMPROVEMENTS SHALL BE ENTIRELY WITHIN COUNTY OF SAN MATEO RIGHT OF WAY OR COUNTY-OWNED PARCELS.

CONSTRUCTION SEQUENCING REQUIREMENTS:

1) ALL CIDH PILES SHALL BE DRILLED AND CONCRETE PLACED AND CURED SUCH THAT A MINIMUM COMPRESSIVE STRENGTH OF 3000 PSI, DETERMINED BY CONCRETE TESTING, IN CONFORMANCE WITH SECTION 49-3 "CAST-IN-PLACE CONCRETE PILING" OF THE STANDARD SPECIFICATIONS, IS ATTAINED PRIOR TO COMMENCING GRE STRUCTURE EXCAVATION.
2) TO THE EXTENT POSSIBLE CONSTRUCTION OF CIDH PILES SHALL BE COMPLETED IN A MANNER THAT REQUIRES MINIMUM GROUND DISTURBANCE AND EXCAVATION DEPTHS.
3) LOWER SUBDRAIN PIPE AND PERMEABLE BACKFILL SHALL BE PLACED AND COMPACTED PRIOR TO LOADING, TESTING, AND LOCKING-OFF GROUND ANCHORS.
4) CONTRACTOR SHALL SUBMIT A WORK PLAN TO THE ENGINEER FOR REVIEW AND APPROVAL. WORK PLAN SHALL OUTLINE IN DETAIL CONSTRUCTION SEQUENCING, STOCK PILE AREAS, EQUIPMENT STAGING AND MATERIAL STORAGE AREAS, AND ALL OTHER PERTINENT INFORMATION RELATED TO CONSTRUCTION OF IMPROVEMENTS. COUNTY SHALL APPROVE THE CONTRACTOR'S WORK PLAN PRIOR TO START OF WORK.

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SCALE FEET

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San Jose, CA 95120
Phone: (408) 440-4542

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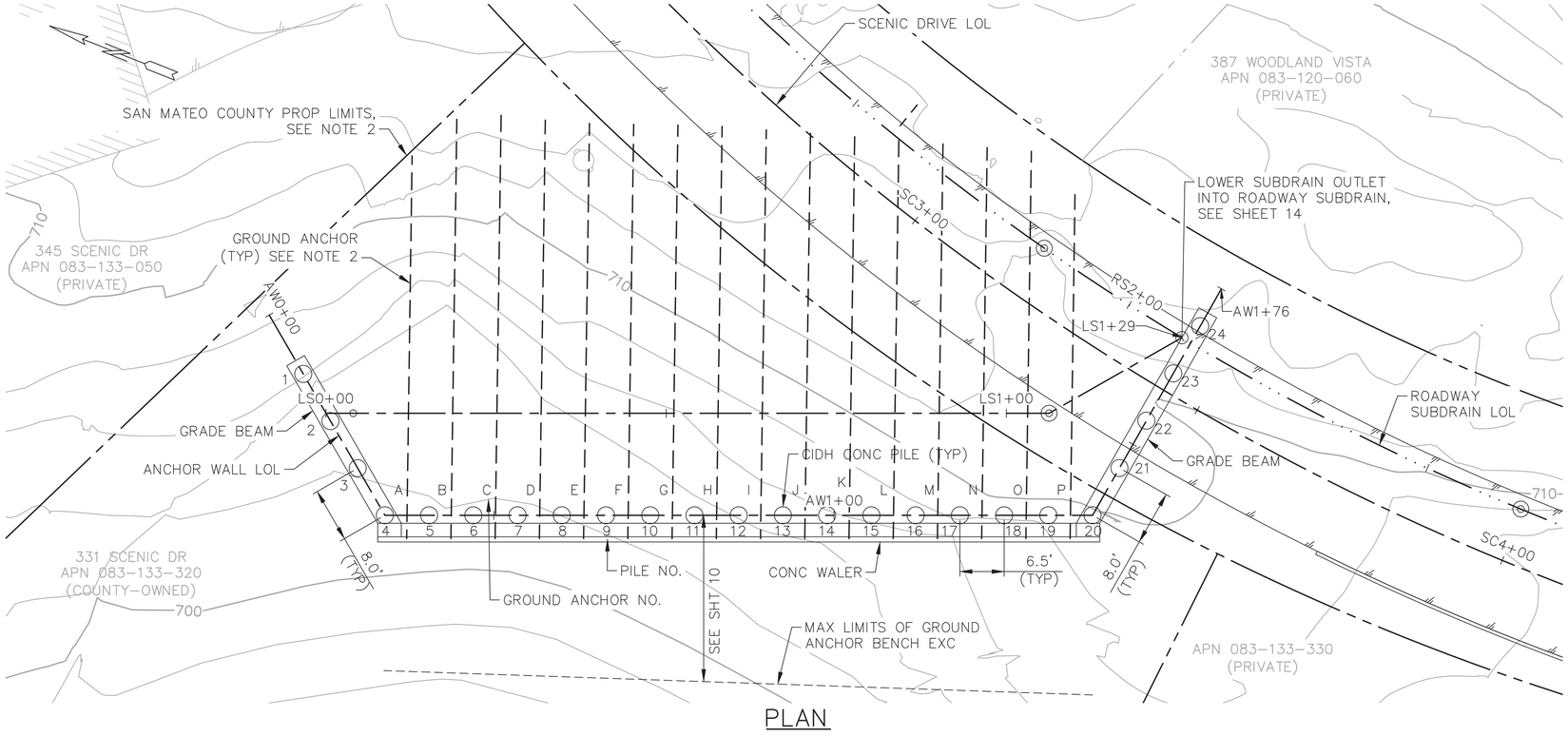
COUNTY OF SAN MATEO PUBLIC WORKS

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		CHECKED BY: CH	SITE PLAN	FILE NO.: E4976
		JAMES C. PORTER, DIRECTOR OF PUBLIC WORKS COUNTY OF SAN MATEO	555 COUNTY CENTER, 5th FLOOR REDWOOD CITY, CALIFORNIA 94063	

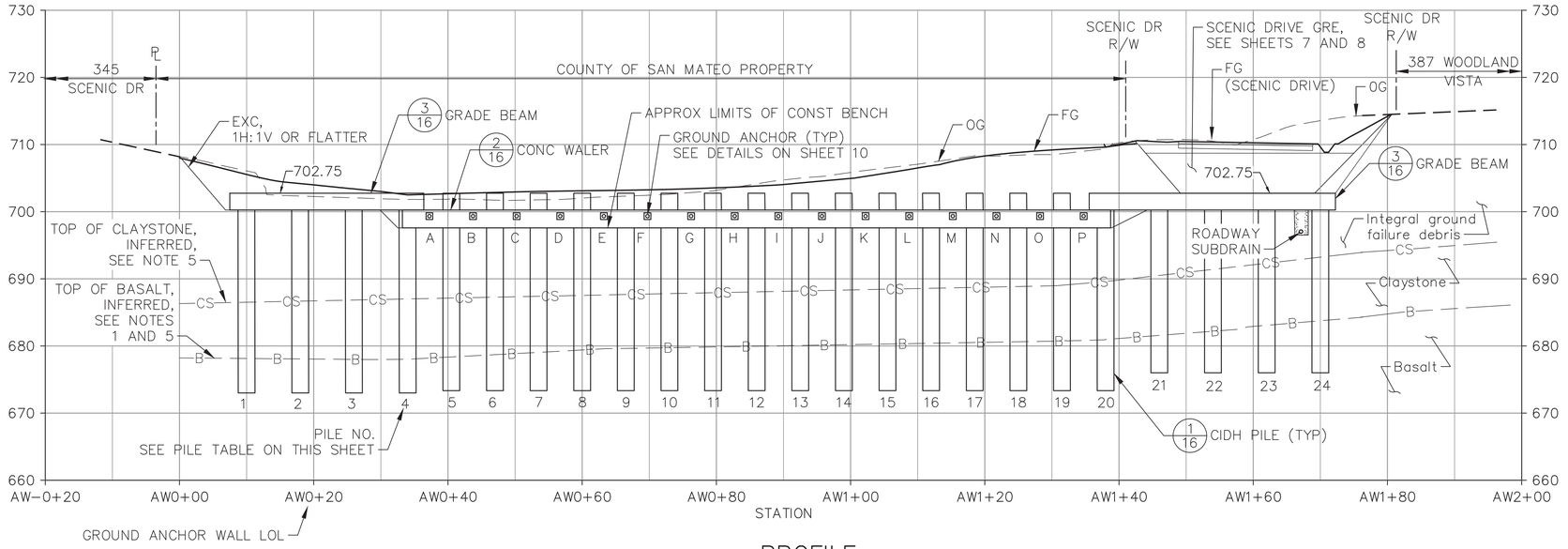
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SHEET 5 OF 22

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Date: 2021.04.29 15:32:24 -07'00'

DATE: 04/29/2021

JAMES C. PORTER, DIRECTOR OF PUBLIC WORKS
R. C. E. # 48056 / EXPIRES 12-31-2021

NOTES:

1. CIDH PILE AND GROUND ANCHOR DRILLING WILL BE CONTINUOUSLY OBSERVED BY THE ENGINEER. THE CONTRACTOR SHALL NOTIFY THE ENGINEER OF THE DRILLED HOLE DEPTH IN WHICH CHANGES ON DRILLING CONDITIONS (TORQUE, DOWNPRESSURE, VIBRATIONS) OCCUR AND/OR CHANGES IN DRILLING SPOIL MATERIAL OCCURS.
2. GROUND ANCHORS SHALL BE ENTIRELY WITHIN THE COUNTY OF SAN MATEO RIGHT-OF-WAY AS DETERMINED BY MAX ANCHOR LENGTH SPECIFIED.
3. THE SPACING BETWEEN PILES 1 TO 4 AND 20 TO 24 SHALL BE 8.0' ON CENTER. THE SPACING BETWEEN PILES 5 TO 20 SHALL BE 6.5' ON CENTER.
4. THE INCLINATION OF THE GROUND ANCHORS SHALL BE 25 DEGREES, EXCEPT FOR GROUND ANCHORS "A" AND "P", WHICH SHALL HAVE AN INCLINATION OF 30 DEGREES.
5. BASALT BEDROCK CONTACT IS APPROXIMATE. ENGINEER TO VERIFY IN FIELD.

PILE TABLE

PILE NO.	STATION ℄ OF PILE	TOP OF PILE ELEV (FT)	APPROX PILE LENGTH (FT)
1	0+10.0	700.50	30
2	0+18.0	700.50	30
3	0+26.0	700.50	30
4	0+34.0	700.50	30
5	0+40.5	702.75	30
6	0+47.0	702.75	30
7	0+53.5	702.75	30
8	0+60.0	702.75	30
9	0+66.5	702.75	30
10	0+73.0	702.75	30
11	0+79.5	702.75	30
12	0+86.0	702.75	30
13	0+92.5	702.75	30
14	0+99.0	702.75	30
15	1+05.5	702.75	30
16	1+12.0	702.75	30
17	1+18.5	702.75	30
18	1+25.0	702.75	30
19	1+31.5	702.75	30
20	1+38.0	700.50	30
21	1+46.0	700.50	25
22	1+54.0	700.50	25
23	1+62.0	700.50	25
24	1+70.0	700.50	25

GROUND ANCHOR TABLE

GROUND ANCHOR NO.	STATION	APPROX GROUND ANCHOR HEAD ELEV	APPROX LENGTH (FT)
A	0+37.3	699.50	SEE GROUND ANCHOR REQUIREMENTS ON SHEET 10
B	0+43.8	699.50	
C	0+50.3	699.50	
D	0+56.8	699.50	
E	0+63.3	699.50	
F	0+69.8	699.50	
G	0+76.3	699.50	
H	0+82.8	699.50	
I	0+89.3	699.50	
J	0+95.8	699.50	
K	1+02.3	699.50	
L	1+08.8	699.50	
M	1+15.30	699.50	
N	1+21.8	699.50	
O	1+28.3	699.50	
P	1+34.8	699.50	

MATERIALS

CONCRETE: f'c = 4,000 PSI
REINFORCING STEEL: fy = 60,000 PSI

SPECIAL INSPECTIONS, TESTS AND STRUCTURAL OBSERVATIONS

1. SPECIAL INSPECTIONS AND TESTS SHALL BE PROVIDED BY A QUALIFIED TESTING AGENCY, RETAINED BY THE COUNTY, AS REQUIRED BELOW AND SHALL CONFORM TO THE REQUIREMENTS OF THE 2016 CALIFORNIA BUILDING CODE CHAPTER 17A AND FHWA GEOTECHNICAL CIRCULAR NO. 4, "GROUND ANCHOR AND ANCHORED SYSTEMS" (FHWA-IF99-015).
2. TESTS:
   - FILL COMPACTION
   - CONCRETE STRENGTH
   - ANCHOR PROOF AND PERFORMANCE TESTING

   INSPECTIONS:
   - GRADING, EXCAVATION AND FILLING
   - PILE INSTALLATION
   - CONCRETE PLACEMENT
3. THE CONTRACTOR SHALL PROVIDE A MINIMUM TWO DAY NOTICE TO THE ENGINEER FOR SPECIAL INSPECTIONS AND TESTING.
4. THE ENGINEER WILL SELECT THREE ANCHORS FOR PERFORMANCE TESTING.
5. SEE SHEET 10 FOR GROUND ANCHOR REQUIREMENTS FOR ANCHOR TYPE, MATERIALS, LENGTH, LOADING, AND PERFORMANCE TESTING.

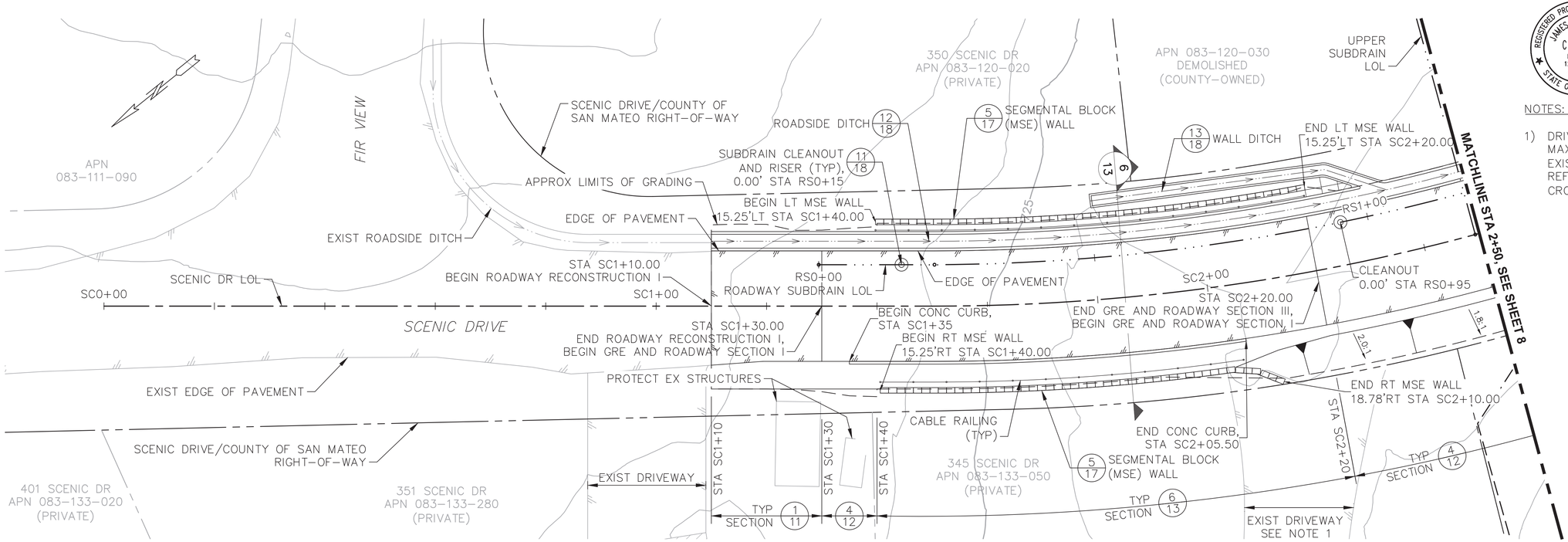
COUNTY OF SAN MATEO PUBLIC WORKS

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		DRAWN BY: RL	LA HONDA, CALIFORNIA	DATE: 4/29/2021
		CHECKED BY: CH	GROUND ANCHOR WALL	FILE NO.: E4976
		JAMES C. PORTER, DIRECTOR OF PUBLIC WORKS COUNTY OF SAN MATEO	555 COUNTY CENTER, 5th FLOOR REDWOOD CITY, CALIFORNIA 94063	

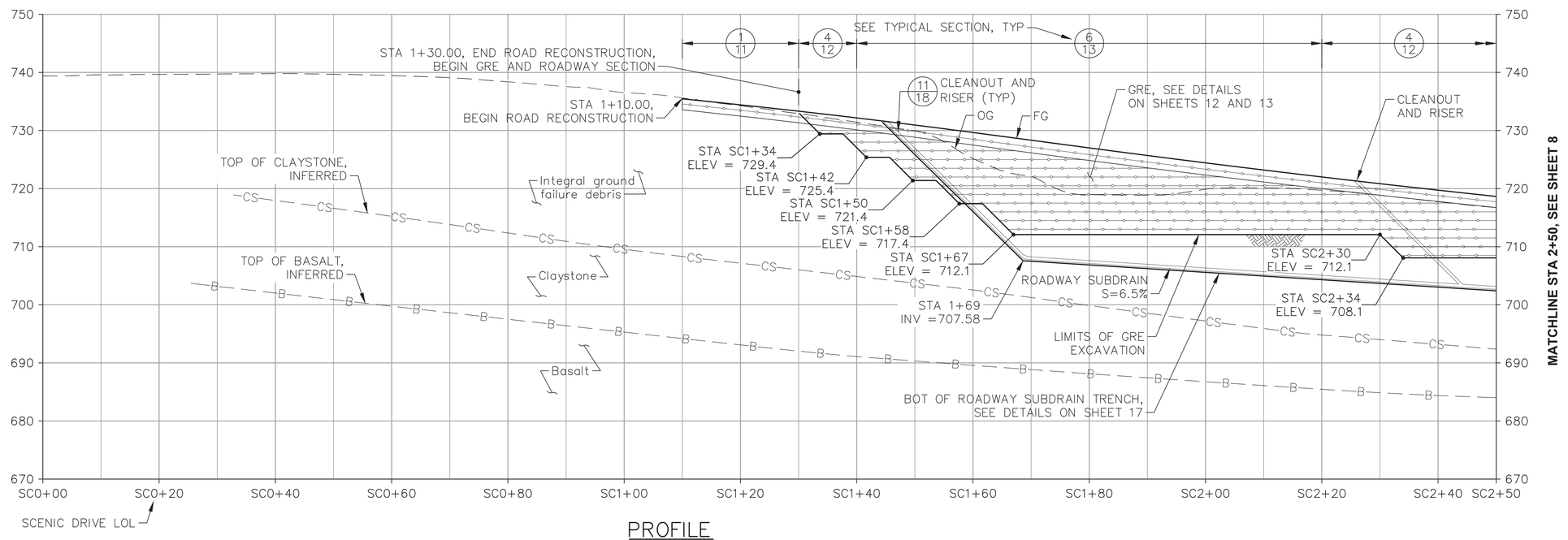
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SHEET 6 OF 22

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PLAN



PROFILE

10 0 10 20
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DATE: 04/29/2021

JAMES C. PORTER, DIRECTOR OF PUBLIC WORKS
R. C. E. # 48056 / EXPIRES 12-31-2021

REGISTERED PROFESSIONAL ENGINEER JAMES C. PORTER C 48056 EXPIRES 12/31/21 CIVIL STATE OF CALIFORNIA

NOTES:

1) DRIVEWAY ACCESS SHALL BE MAINTAINED WITH A MAXIMUM 20% SLOPE TO CONFORM TO THE EXISTING DRIVEWAY (APN 083-133-050). REFERENCE IS MADE TO SHEET 21, CROSS-SECTIONS (1 OF 2), STA 2+20.

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REGISTERED PROFESSIONAL ENGINEER CHRISTOPHER A. HOCKETT No. Geo GE 2928 No. Civil C 71938 CIVIL-GEOTECHNICAL STATE OF CALIFORNIA

COUNTY OF SAN MATEO PUBLIC WORKS

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		FOR REDUCED PLANS ORIGINAL SCALE IS IN INCHES 0 1 2 3 4		SHEET 7 OF 22

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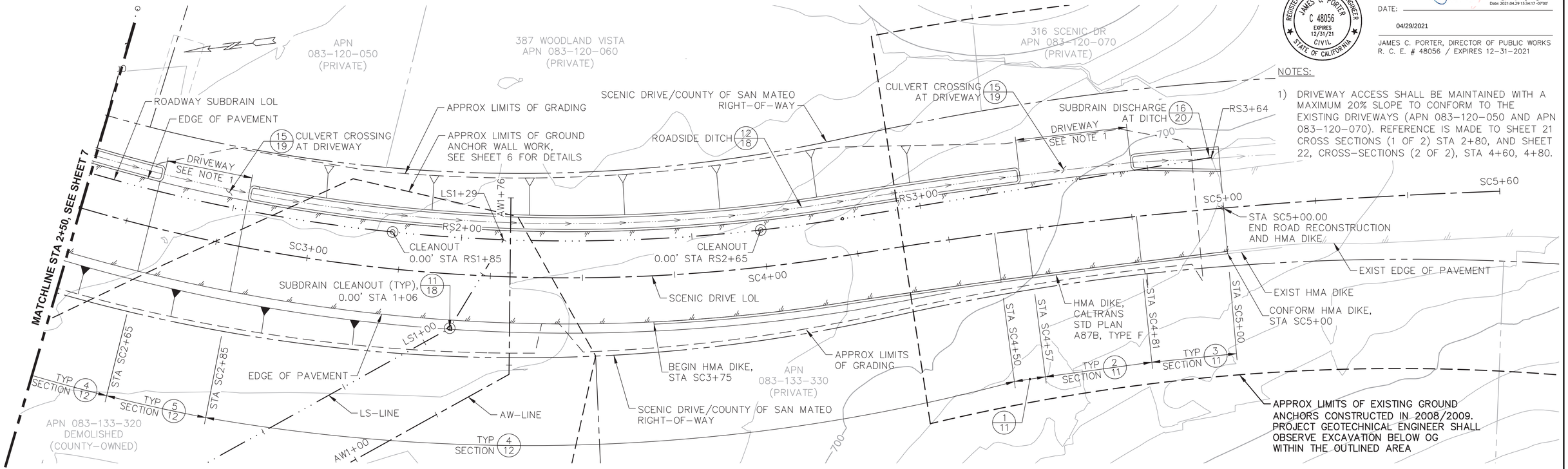
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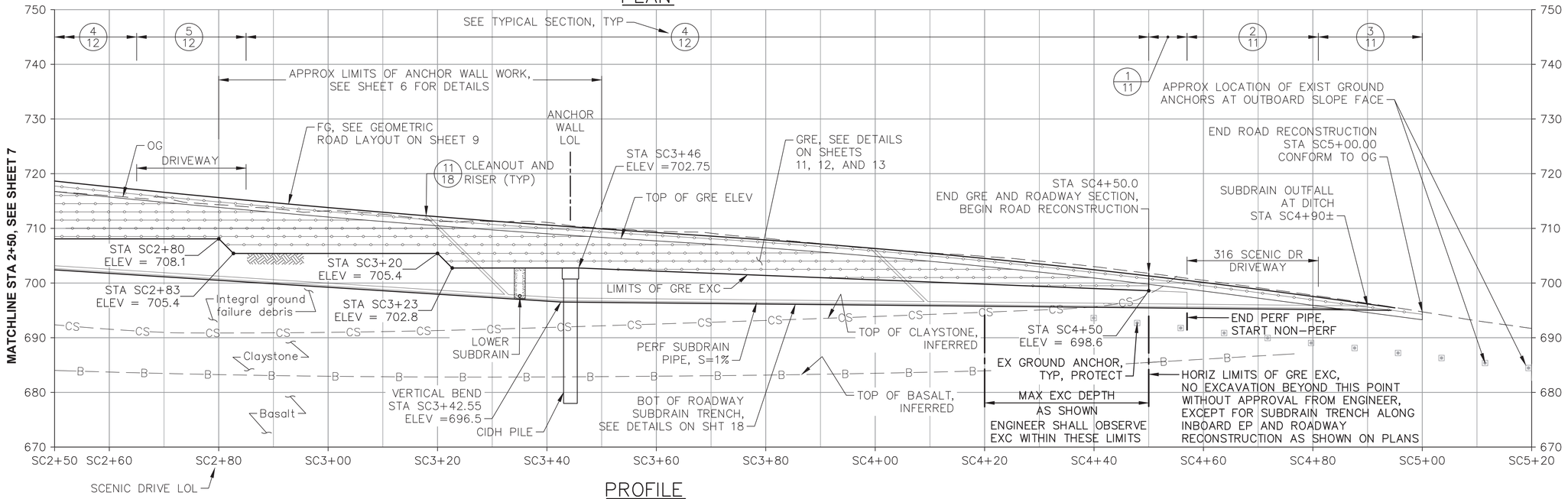
REGISTERED PROFESSIONAL ENGINEER
JAMES C. PORTER
C 48056
EXPIRES 12/31/21
CIVIL
STATE OF CALIFORNIA

NOTES:

1) DRIVEWAY ACCESS SHALL BE MAINTAINED WITH A MAXIMUM 20% SLOPE TO CONFORM TO THE EXISTING DRIVEWAYS (APN 083-120-050 AND APN 083-120-070). REFERENCE IS MADE TO SHEET 21 CROSS SECTIONS (1 OF 2) STA 2+80, AND SHEET 22, CROSS-SECTIONS (2 OF 2), STA 4+60, 4+80.



PLAN



PROFILE

10 0 10 20
SCALE FEET

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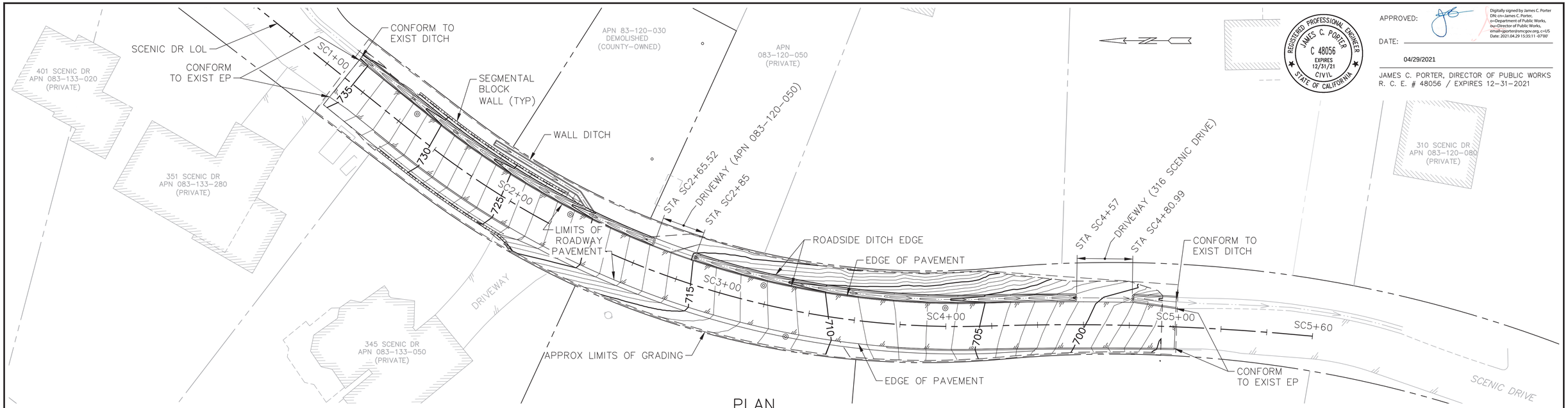
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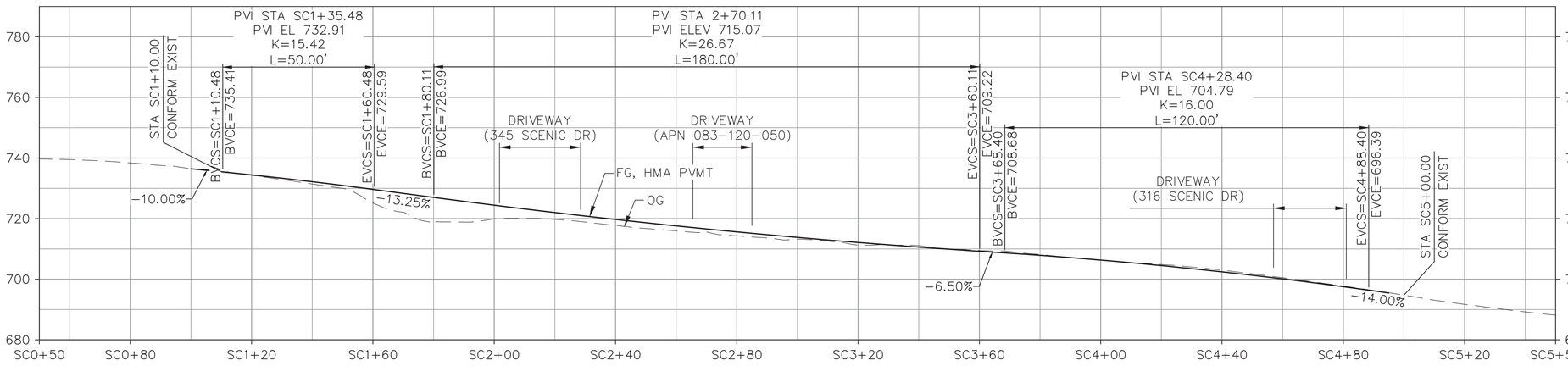
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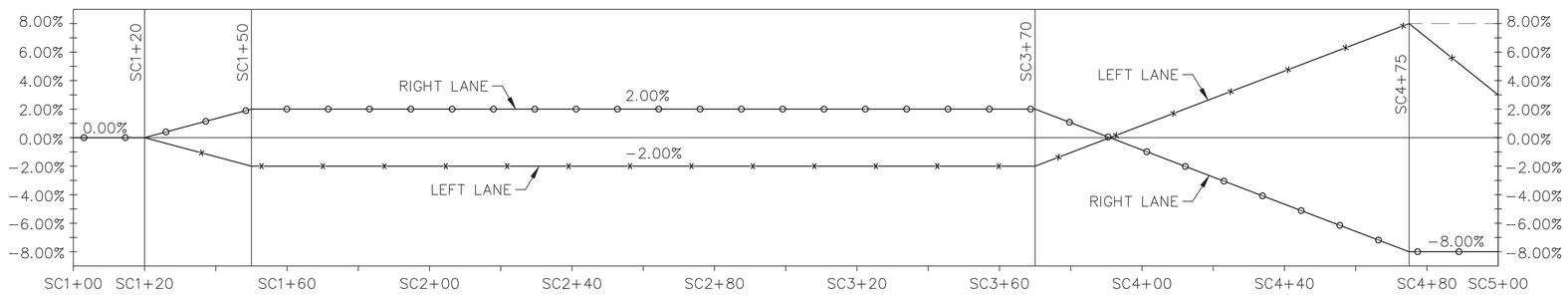
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PLAN



PROFILE



SUPERELEVATION DIAGRAM

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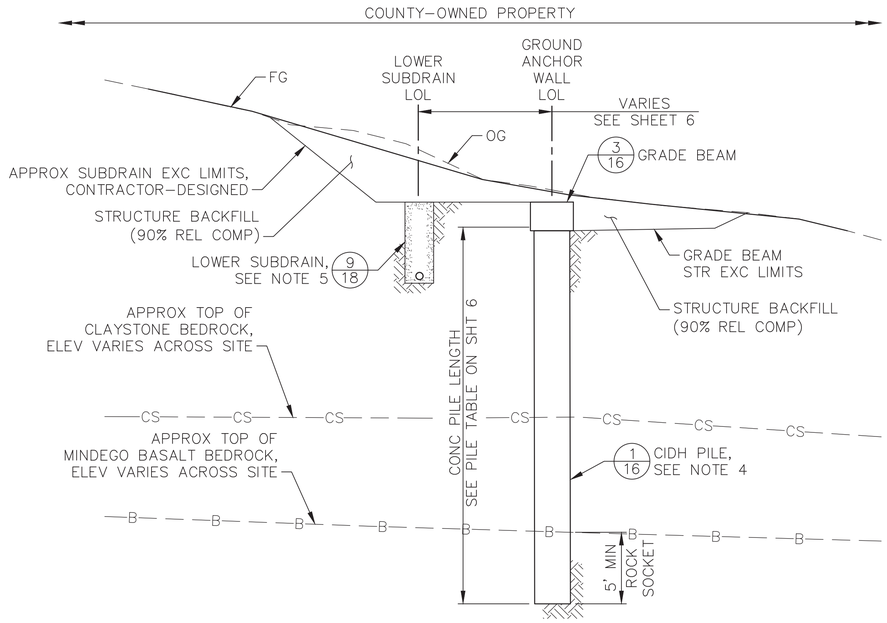
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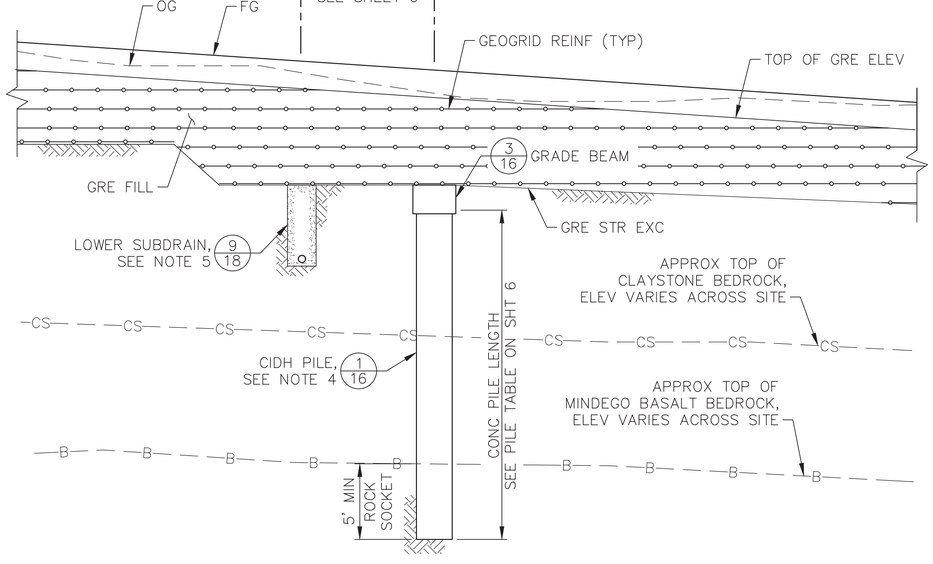
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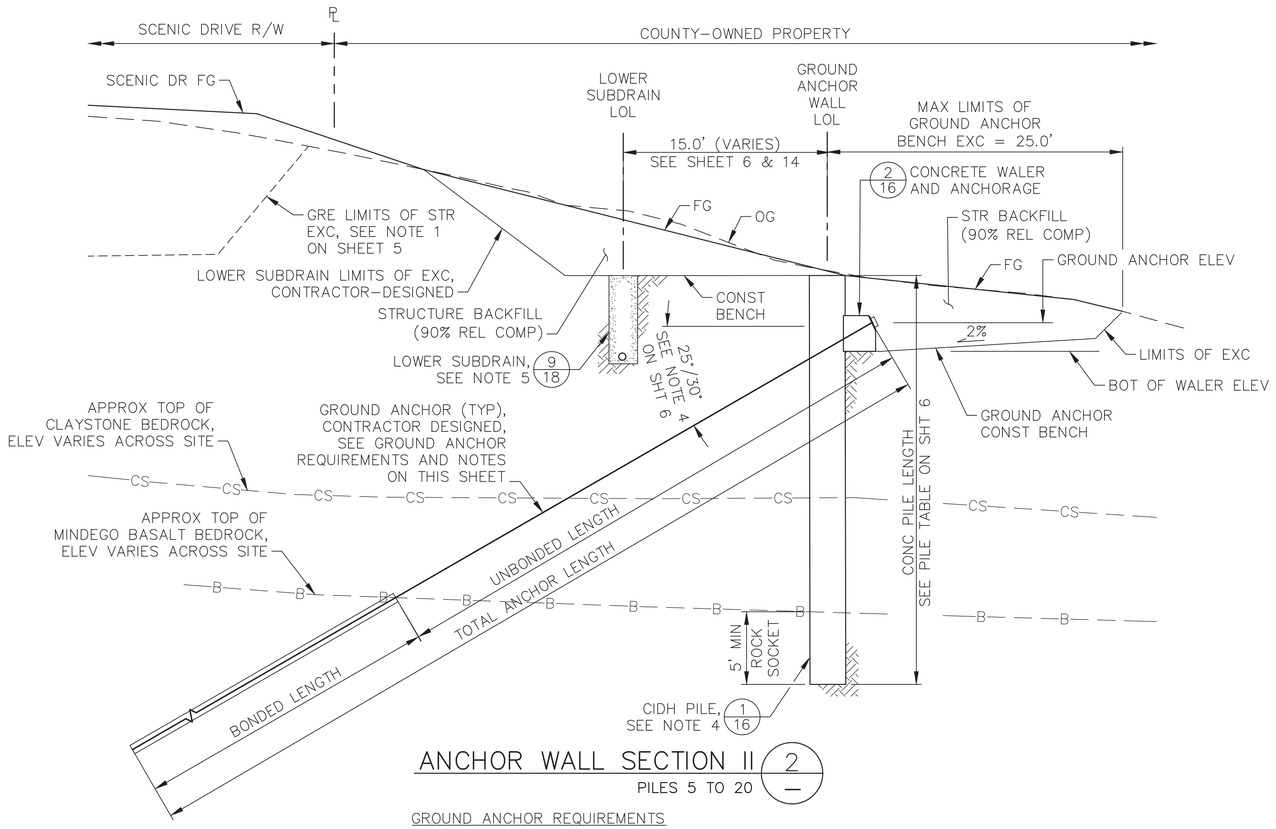
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ANCHOR WALL SECTION I 1/— PILES 1 TO 4



ANCHOR WALL SECTION III 3/— PILES 21 TO 24



ANCHOR WALL SECTION II 2/— PILES 5 TO 20

GROUND ANCHOR REQUIREMENTS

ANCHOR TYPE:	5 STRAND TENDONS, ASTM A416, GRADE 270, DOUBLE CORROSION PROTECTED, POST GROUTED
GROUT STRENGTH:	5,000 PSI MIN., ASTM C150
DESIGN LOAD:	151 KIPS
LOCK OFF LOAD:	151 KIPS
MAX TEST LOAD:	204 KIPS
MIN UNBONDED LENGTH:	43 FT
MIN BONDED LENGTH:	15 FT
MAX TOTAL ANCHOR LENGTH:	64 FT (CONTROLLED BY RIGHT–OF–WAY LIMITATIONS)

NOTES

1) CONTRACTOR SHALL SUBMIT, FOR REVIEW APPROVAL, DESIGN DRAWINGS AND TESTING PROTOCOL FOR GROUND ANCHOR SYSTEM BASED ON THE MINIMUM REQUIREMENTS SHOWN. GROUND ANCHORS SHALL BE DOUBLE CORROSION PROTECTED. DESIGN SHALL BE CONSISTENT WITH FHWA GEOTECHNICAL CIRCULAR NO. 4, "GROUND ANCHOR AND ANCHORED SYSTEMS" (FHWA–IF99–015). DESIGN DRAWINGS SHALL BE PREPARED BY A CIVIL ENGINEER REGISTERED IN THE STATE OF CALIFORNIA.

2) GROUND ANCHOR BONDED LENGTH SHALL BE EMBEDDED ENTIRELY WITHIN BASALT BEDROCK. GROUND ANCHOR, IN ITS ENTIRETY, SHALL REMAIN WITHIN COUNTY OF SAN MATEO RIGHT–OF–WAY.

3) CIDH CONCRETE PILE SHALL BE EMBEDDED A MINIMUM OF 5 FT INTO BASALT BEDROCK TO THE SATISFACTION OF THE PROJECT GEOTECHNICAL ENGINEER.

4) SHOULD A PILE NOT MEET THE REQUIRED EMBEDMENT INTO BASALT BEDROCK USING THE PILE LENGTHS SHOWN ON SHEET 6, THE CONTRACTOR SHALL INCREASE THE LENGTH OF THE PILE (AND STEEL REINFORCEMENT) UNTIL THE REQUIRED EMBEDMENT IS ATTAINED. ANY SPLICES TO THE STEEL REINFORCEMENT SHALL BE LOCATED AT THE BOTTOM OF THE PILE.

5) LOWER SUBDRAIN PIPE AND PERMEABLE BACKFILL SHALL BE PLACED AND COMPACTED, COMPLETE IN PLACE, PRIOR TO LOADING, TESTING, AND/OR LOCK–OFF OF GROUND ANCHORS.

6) CONCRETE WALER AND GRADE BEAMS SHALL BE CONSTRUCTED MONOLITHICALLY, RESPECTIVELY. COLD JOINTS NOT ALLOWED, UNLESS APPROVED BY ENGINEER.

REGISTERED PROFESSIONAL ENGINEER JAMES C. PORTER C 48056 EXPIRES 12/31/21 CIVIL STATE OF CALIFORNIA

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6455 Almaden Expwy. Suite 100 San Jose, CA 95120 Phone: (408) 440-4542

APPROVED DATE: 04–29–2021

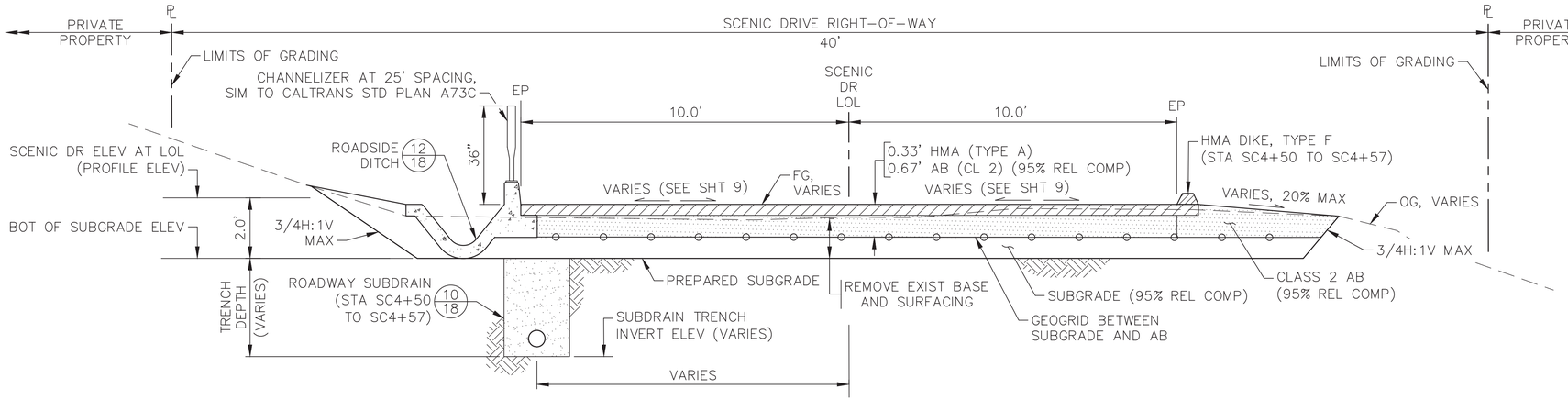
CHRIS HOCKETT, P.E., G.E., PRINCIPAL ENGINEER
CAL ENGINEERING & GEOLOGY, INC.
R.C.E. # 71938, R.G.E. # 2928 / EXP 12–31–21

REGISTERED PROFESSIONAL ENGINEER CHRISTOPHER A. HOCKETT No. Geo GE 2928 No. Civil C 71938 CIVIL–GEOTECHNICAL STATE OF CALIFORNIA

COUNTY OF SAN MATEO PUBLIC WORKS

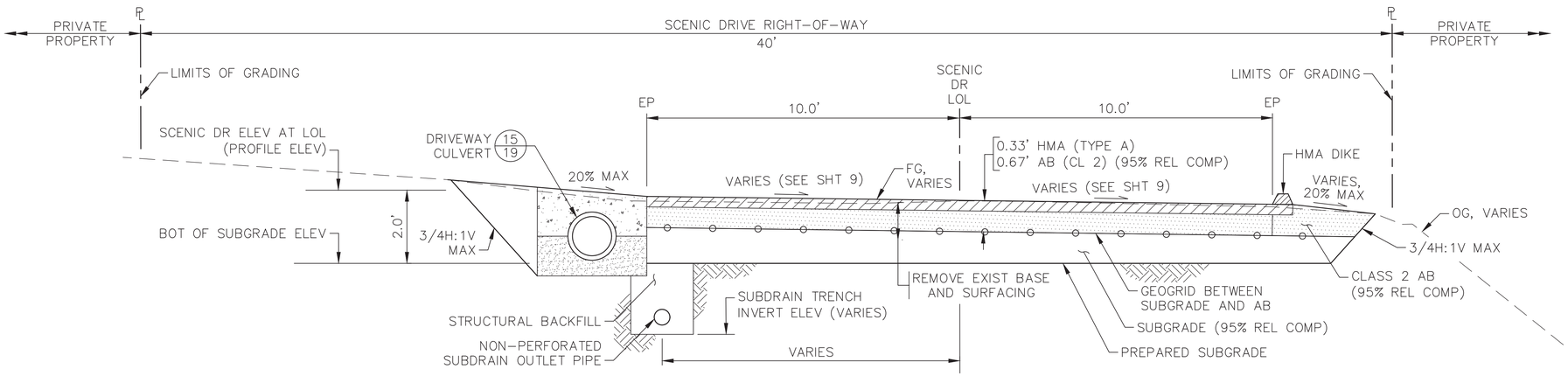
REVISION	DATE	DESIGNED BY: MV	SCENIC DR REPAIR AND RECONSTRUCTION PROJECT	SCALE: AS SHOWN
		DRAWN BY: RL	LA HONDA, CALIFORNIA	DATE: 4/29/2021
		CHECKED BY: CH	**GROUND ANCHOR WALL TYP SECTIONS**	FILE NO.: E4976
		JAMES C. PORTER, DIRECTOR OF PUBLIC WORKS COUNTY OF SAN MATEO	555 COUNTY CENTER, 5th FLOOR REDWOOD CITY, CALIFORNIA 94063	
		FOR REDUCED PLANS ORIGINAL SCALE IS IN INCHES 0 1 2 3 4		SHEET 10 OF 22

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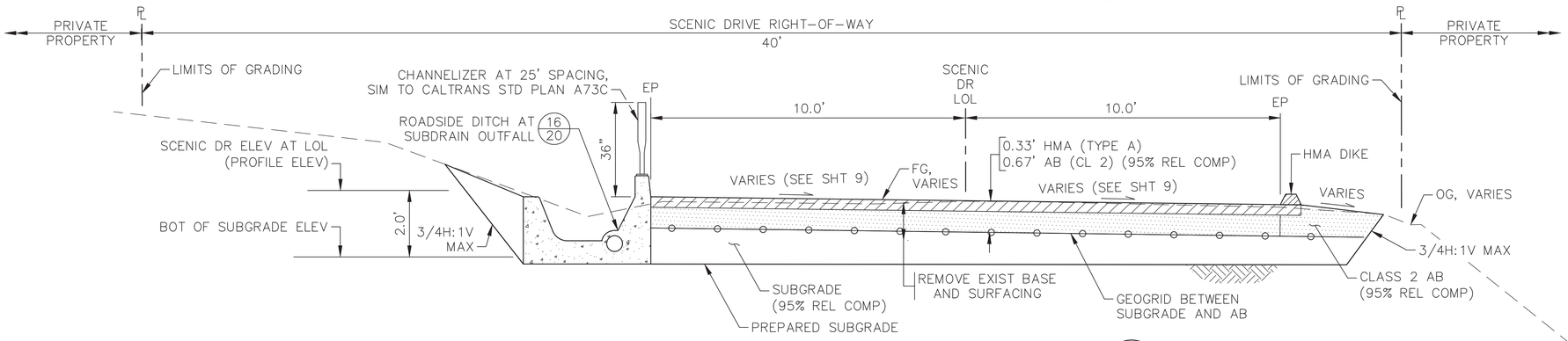
ROADWAY RECONSTRUCTION I (1)

STA SC1+10 TO SC1+30
STA SC4+50 TO SC4+57



ROADWAY RECONSTRUCTION II (2)

STA SC4+57 TO SC4+81



ROADWAY RECONSTRUCTION III (3)

STA SC4+81 TO SC5+00

2 0 2 4
SCALE FEET

REGISTERED PROFESSIONAL ENGINEER JAMES C. PORTER C 48056 EXPIRES 12/31/21 CIVIL STATE OF CALIFORNIA

APPROVED:

DATE: 04/29/2021

Digitally signed by James C. Porter
DN: cn=James C. Porter, o=Department of Public Works, ou=Director of Public Works, email=jporter@smcgov.org, c=US
Date: 2021.04.29 15:37:04 -07'00'

JAMES C. PORTER, DIRECTOR OF PUBLIC WORKS
R. C. E. # 48056 / EXPIRES 12–31–2021

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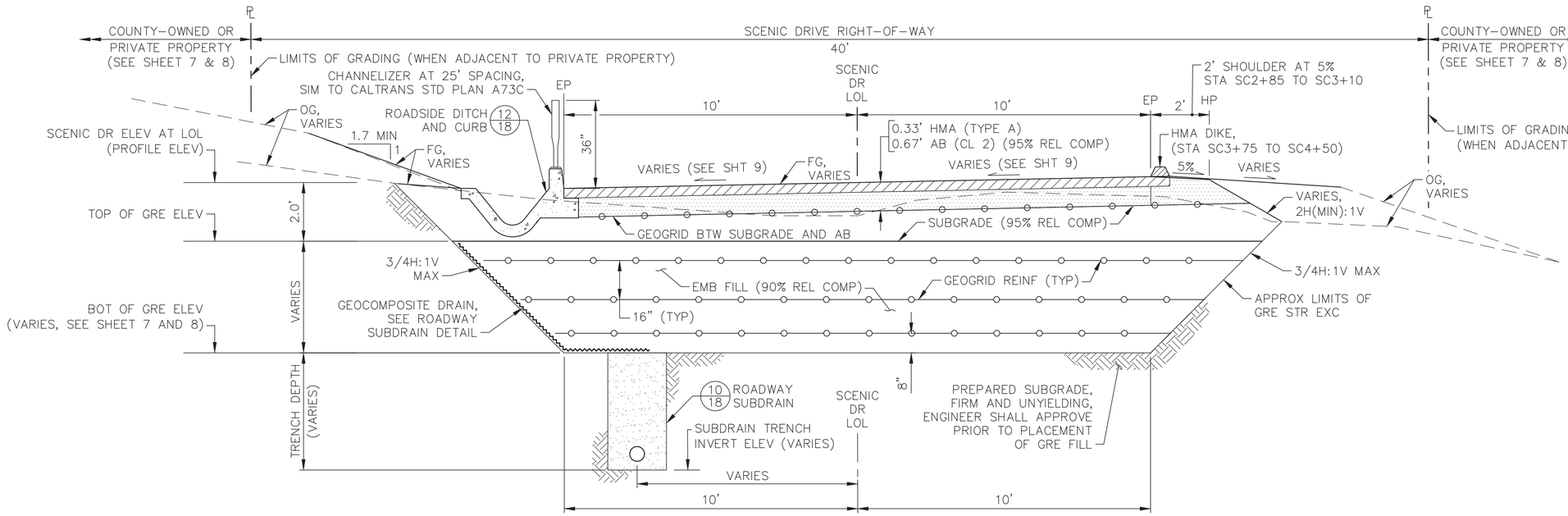
CHRIS HOCKETT, P.E., G.E., PRINCIPAL ENGINEER
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COUNTY OF SAN MATEO PUBLIC WORKS

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		DRAWN BY: RL		DATE: 4/29/2021
		CHECKED BY: CH	**SCENIC DR TYPICAL SECTIONS (1 OF 3)**	FILE NO.: E4976
		JAMES C. PORTER, DIRECTOR OF PUBLIC WORKS COUNTY OF SAN MATEO	555 COUNTY CENTER, 5th FLOOR REDWOOD CITY, CALIFORNIA 94063	
		FOR REDUCED PLANS ORIGINAL SCALE IS IN INCHES 0 1 2 3 4		SHEET 11 OF 22

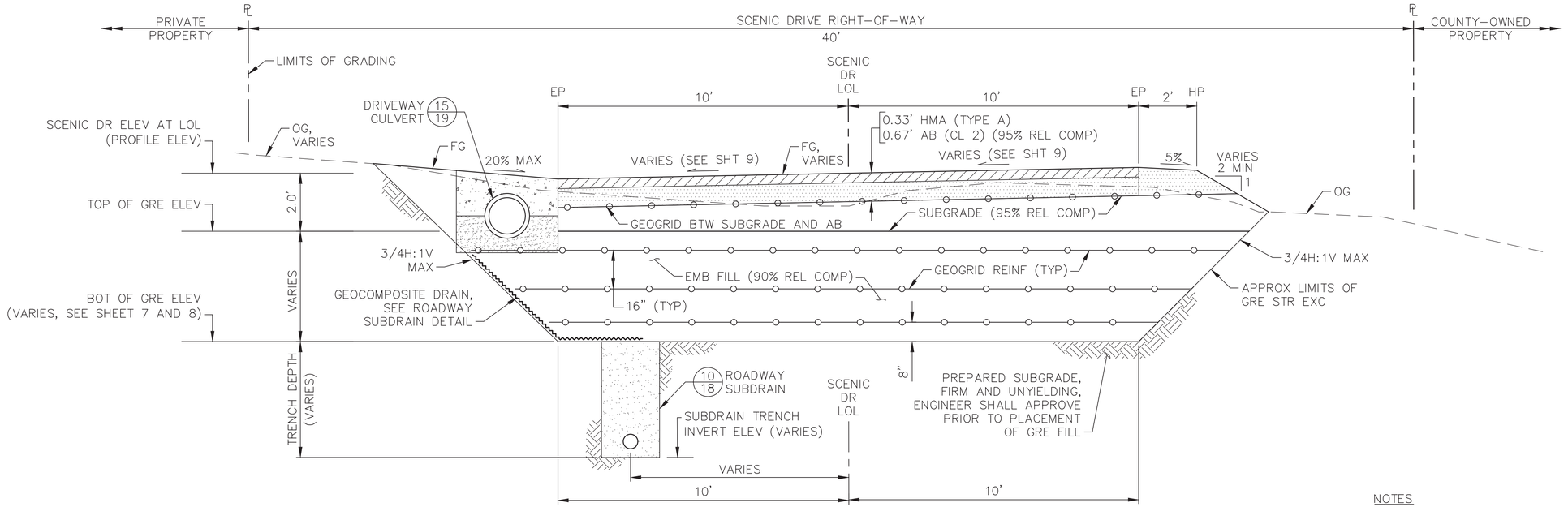
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GRE AND ROADWAY SECTION I (4)

SEE SHT 7 FOR WALL AND DITCH TRANSITION NEAR STA SC2+20

STA SC1+30 TO SC1+40
STA SC2+20 TO SC2+65
STA SC2+85 TO SC4+50



GRE AND ROADWAY SECTION II (5)

STA SC2+65 TO SC2+85

NOTES

1) INSTALLATION OF BIAXIAL GEOGRID SHALL BE OBSERVED AND APPROVED BY THE PROJECT GEOTECHNICAL ENGINEER.

SCALE 2 0 2 4 FEET

APPROVED: Digitally signed by James C. Porter DN: cn=James C. Porter, o=Department of Public Works, ou=Director of Public Works, email=jporter@smcgov.org, c=US Date: 2021.04.29 15:38:02 -07'00'

DATE: 04/29/2021

JAMES C. PORTER, DIRECTOR OF PUBLIC WORKS
R. C. E. # 48056 / EXPIRES 12–31–2021

REGISTERED PROFESSIONAL ENGINEER JAMES C. PORTER C 48056 EXPIRES 12/31/21 CIVIL STATE OF CALIFORNIA

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		DRAWN BY: RL	LA HONDA, CALIFORNIA	DATE: 4/29/2021
		CHECKED BY: CH	**SCENIC DR TYPICAL SECTIONS (2 OF 3)**	FILE NO.: E4976
		JAMES C. PORTER, DIRECTOR OF PUBLIC WORKS COUNTY OF SAN MATEO	555 COUNTY CENTER, 5th FLOOR REDWOOD CITY, CALIFORNIA 94063	
		FOR REDUCED PLANS ORIGINAL SCALE IS IN INCHES 0 1 2 3 4		SHEET 12 OF 22

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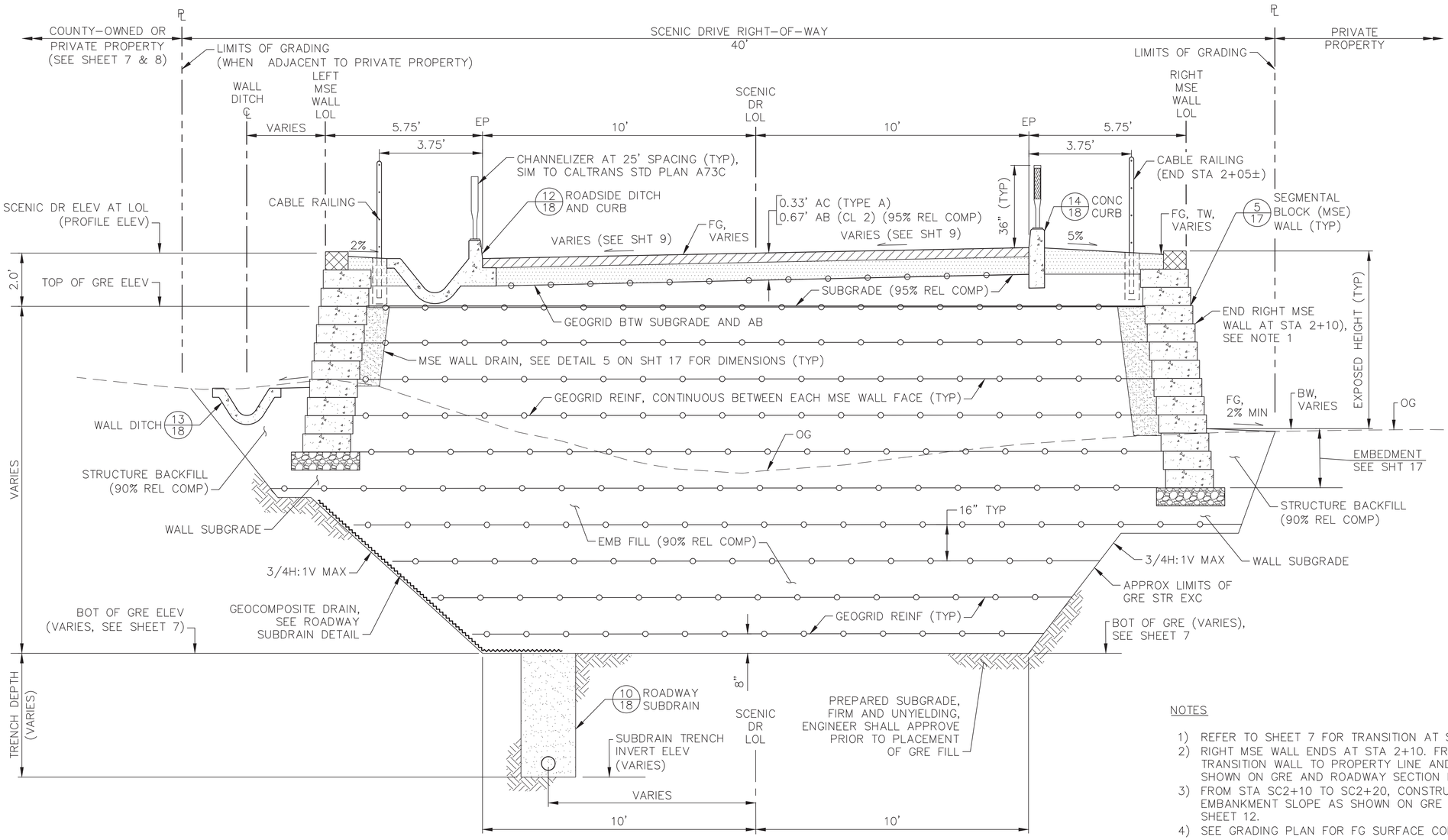
REGISTERED PROFESSIONAL ENGINEER
JAMES C. PORTER
C 48056
EXPIRES 12/31/21
CIVIL
STATE OF CALIFORNIA

APPROVED:

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R. C. E. # 48056 / EXPIRES 12-31-2021



NOTES

1) REFER TO SHEET 7 FOR TRANSITION AT STA SC2+20.
2) RIGHT MSE WALL ENDS AT STA 2+10. FROM STA 2+05 TO STA 2+10 FG TRANSITION WALL TO PROPERTY LINE AND TAPER SHOULDER TO THAT SHOWN ON GRE AND ROADWAY SECTION II ON SHEET 12.
3) FROM STA SC2+10 TO SC2+20, CONSTRUCT RIGHT SHOULDER AND EMBANKMENT SLOPE AS SHOWN ON GRE AND ROADWAY SECTION II ON SHEET 12.
4) SEE GRADING PLAN FOR FG SURFACE CONTOURS.

GRE AND ROADWAY SECTION III (6 / —)

STA SC1+40 TO SC2+20
SECTION SHOWN AT STA SC1+80±

2 0 2 4
SCALE FEET

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No. Civil C 71938
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STATE OF CALIFORNIA

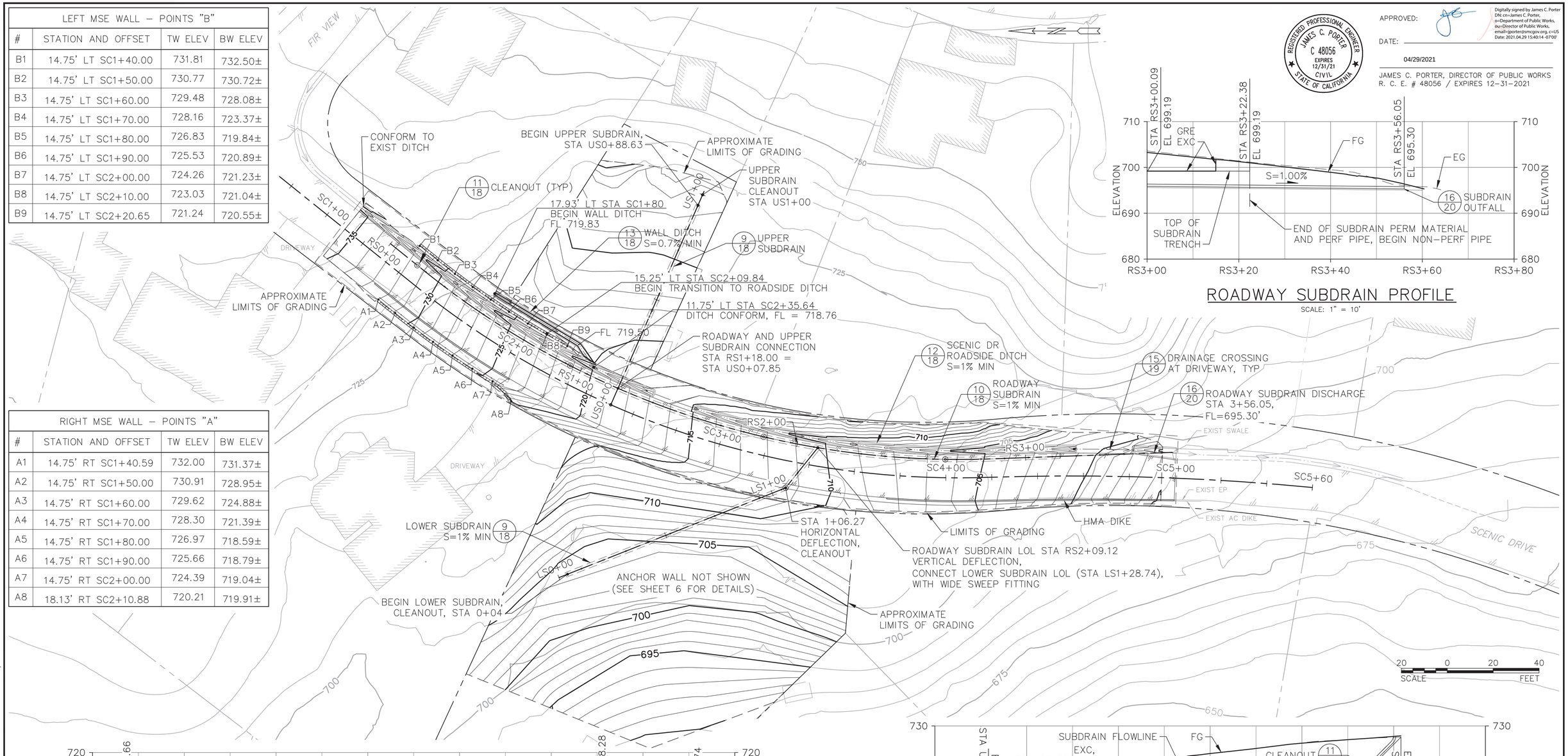
COUNTY OF SAN MATEO
PUBLIC WORKS

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		DRAWN BY: RL	LA HONDA, CALIFORNIA	DATE: 4/29/2021
		CHECKED BY: CH	**SCENIC DR TYPICAL SECTIONS (3 OF 3)**	FILE NO.: E4976
		JAMES C. PORTER, DIRECTOR OF PUBLIC WORKS COUNTY OF SAN MATEO	555 COUNTY CENTER, 5th FLOOR REDWOOD CITY, CALIFORNIA 94063	
		FOR REDUCED PLANS ORIGINAL SCALE IS IN INCHES 0 1 2 3 4		SHEET 13 OF 22

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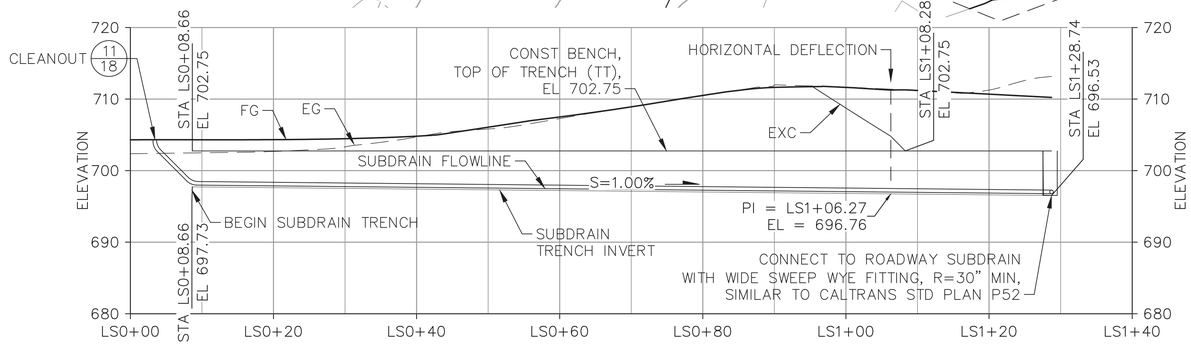
LEFT MSE WALL – POINTS "B"			
#	STATION AND OFFSET	TW ELEV	BW ELEV
B1	14.75' LT SC1+40.00	731.81	732.50±
B2	14.75' LT SC1+50.00	730.77	730.72±
B3	14.75' LT SC1+60.00	729.48	728.08±
B4	14.75' LT SC1+70.00	728.16	723.37±
B5	14.75' LT SC1+80.00	726.83	719.84±
B6	14.75' LT SC1+90.00	725.53	720.89±
B7	14.75' LT SC2+00.00	724.26	721.23±
B8	14.75' LT SC2+10.00	723.03	721.04±
B9	14.75' LT SC2+20.65	721.24	720.55±

RIGHT MSE WALL – POINTS "A"			
#	STATION AND OFFSET	TW ELEV	BW ELEV
A1	14.75' RT SC1+40.59	732.00	731.37±
A2	14.75' RT SC1+50.00	730.91	728.95±
A3	14.75' RT SC1+60.00	729.62	724.88±
A4	14.75' RT SC1+70.00	728.30	721.39±
A5	14.75' RT SC1+80.00	726.97	718.59±
A6	14.75' RT SC1+90.00	725.66	718.79±
A7	14.75' RT SC2+00.00	724.39	719.04±
A8	18.13' RT SC2+10.88	720.21	719.91±



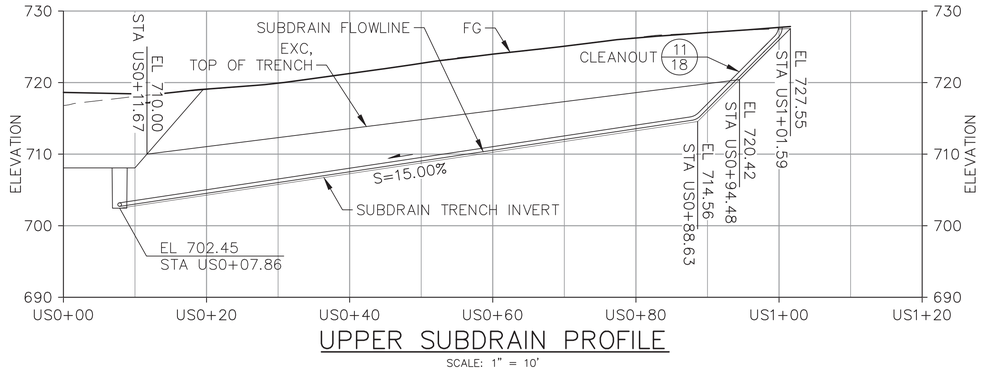
ROADWAY SUBDRAIN PROFILE

SCALE: 1" = 10'



LOWER SUBDRAIN PROFILE

SCALE: 1" = 10'



UPPER SUBDRAIN PROFILE

SCALE: 1" = 10'

APPROVED:

DATE: 04/29/2021

JAMES C. PORTER, DIRECTOR OF PUBLIC WORKS
R. C. E. # 48056 / EXPIRES 12-31-2021

REGISTERED PROFESSIONAL ENGINEER
JAMES C. PORTER
C 48056
EXPIRES 12/31/21
CIVIL
STATE OF CALIFORNIA

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No. Civil C 71938
CIVIL-GEOTECHNICAL
STATE OF CALIFORNIA

COUNTY OF SAN MATEO
PUBLIC WORKS

REVISION	DATE	DESIGNED BY: MV	SCENIC DR REPAIR AND RECONSTRUCTION PROJECT	SCALE: 1" = 20'
		DRAWN BY: RL	LA HONDA, CALIFORNIA	DATE: 4/29/2021
		CHECKED BY: CH	GRADING AND DRAINAGE PLAN	FILE NO.: E4976
		JAMES C. PORTER, DIRECTOR OF PUBLIC WORKS COUNTY OF SAN MATEO	555 COUNTY CENTER, 5th FLOOR REDWOOD CITY, CALIFORNIA 94063	

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SHEET 14 OF 22

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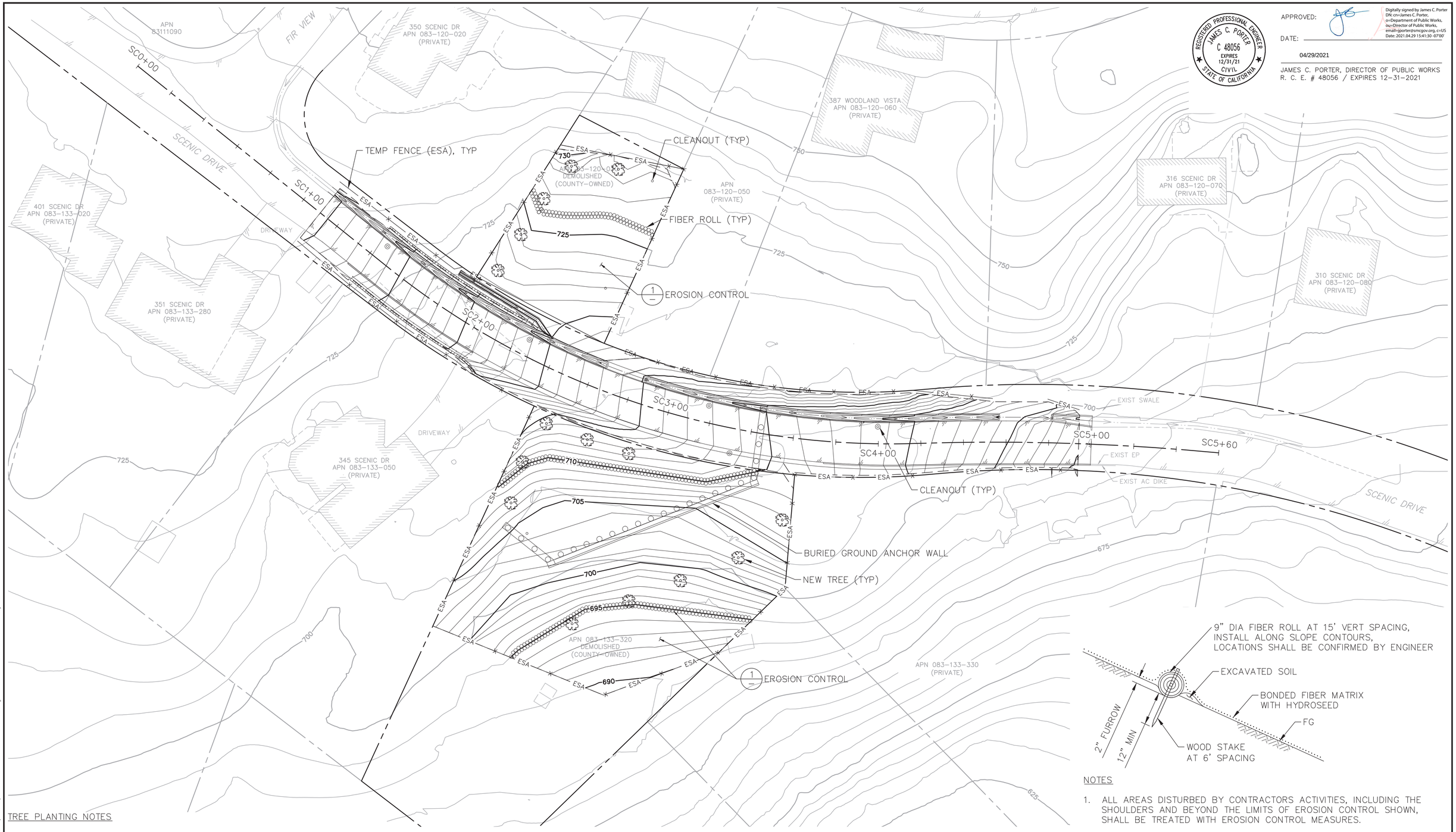
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C 48056
EXPIRES 12/31/21
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STATE OF CALIFORNIA

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Date: 2021.04.29 15:41:30 -07'00'



TREE PLANTING NOTES

1. NEW TREES SHALL BE MINIMUM 15 FEET AWAY FROM ADJACENT SUBDRAIN CLEANOUT.
2. NEW TREES SHALL BE SEPARATED A MINIMUM 20 FEET.
3. NEW TREES PLANTED DOWNSLOPE OF BURIED GROUND ANCHOR WALL SHALL BE MINIMUM 30 FEET AWAY FROM WALL ALIGNMENT.

NOTES

1. ALL AREAS DISTURBED BY CONTRACTORS ACTIVITIES, INCLUDING THE SHOULDERS AND BEYOND THE LIMITS OF EROSION CONTROL SHOWN, SHALL BE TREATED WITH EROSION CONTROL MEASURES.

20 0 20 40
SCALE FEET

EROSION CONTROL 1
NO SCALE

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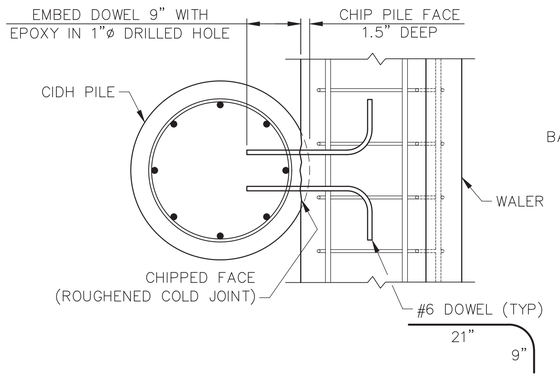
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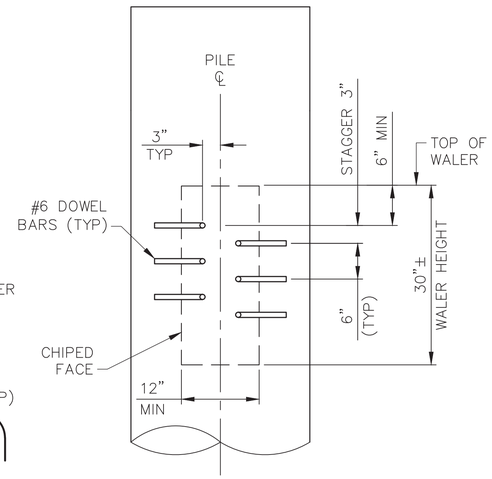
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		CHECKED BY: CH	EROSION CONTROL AND PLANTING PLAN	FILE NO.: E4976
		JAMES C. PORTER, DIRECTOR OF PUBLIC WORKS COUNTY OF SAN MATEO	555 COUNTY CENTER, 5th FLOOR REDWOOD CITY, CALIFORNIA 94063	
		FOR REDUCED PLANS ORIGINAL SCALE IS IN INCHES 0 1 2 3 4		SHEET 15 OF 22

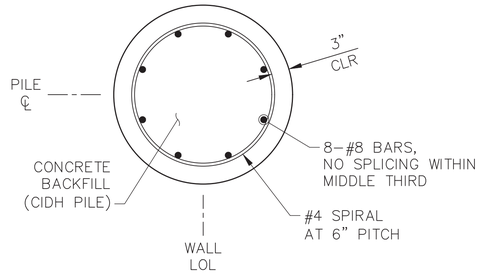
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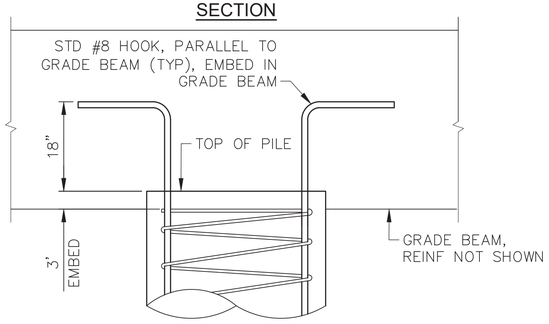


PILE DOWEL DETAIL

PILE NOTES:
1) ALIGN REINFORCEMENT CAGE AS SHOWN
2) ANY INCREASE IN PILE LENGTHS IN THE FIELD MAY USE #4 HOOPS WITHIN THE REQUIRED PILE EXTENSION AT A SPACING EQUAL TO THE SPIRAL PITCH.

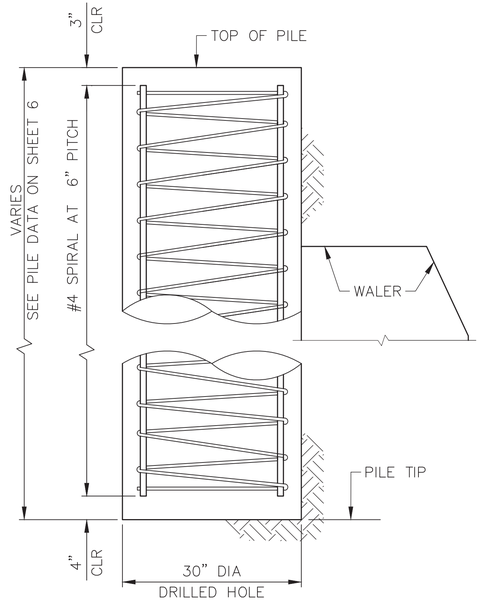


SECTION



PILE AT GRADE BEAM

ANCHOR WALL PILES 1-4 (ANCHOR WALL SECTION I)
ANCHOR WALL PILES 20-24 (ANCHOR WALL SECTION II)



PILE AT WALER

ANCHOR WALL PILES 5-19

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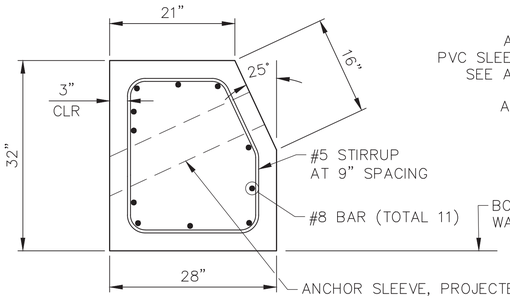
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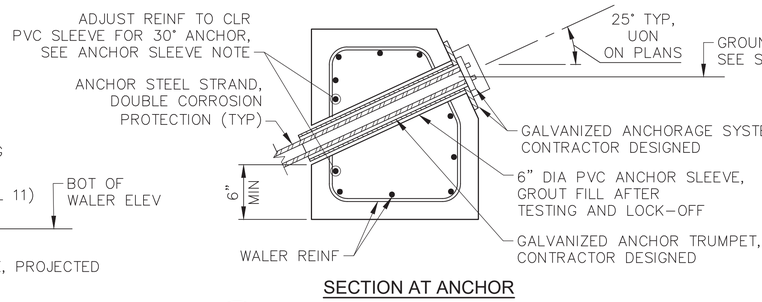
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Date: 2021.04.29 15:42:37 -07'00'

ANCHOR SLEEVE NOTE:
1) STEEL SHALL BE MIN 2" CLR OF ADJACENT LONGITUDINAL STEEL AND SLEEVE.
2) STIRRUP SHALL BE MIN 2" AND MAX 3" CLR OF SLEEVE ON BOTH SIDES.

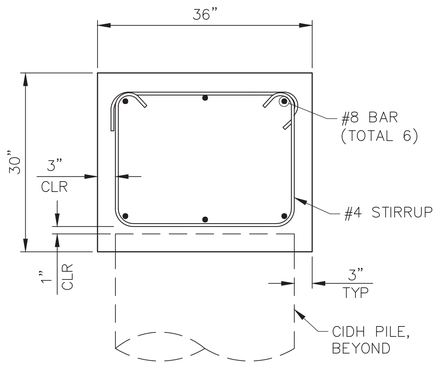


TYPICAL SECTION

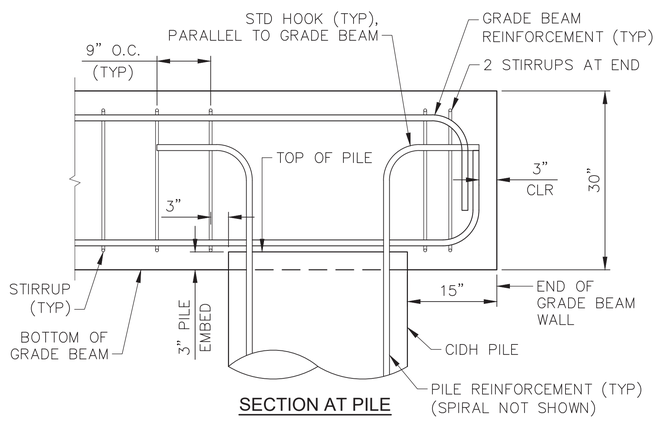


SECTION AT ANCHOR

CONCRETE WALER 2
SCALE: 1" = 1'



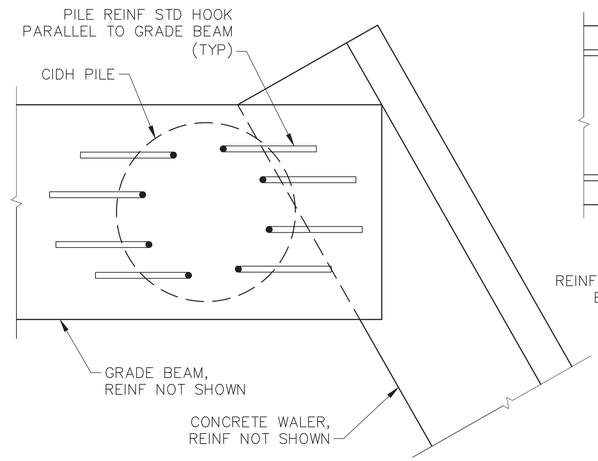
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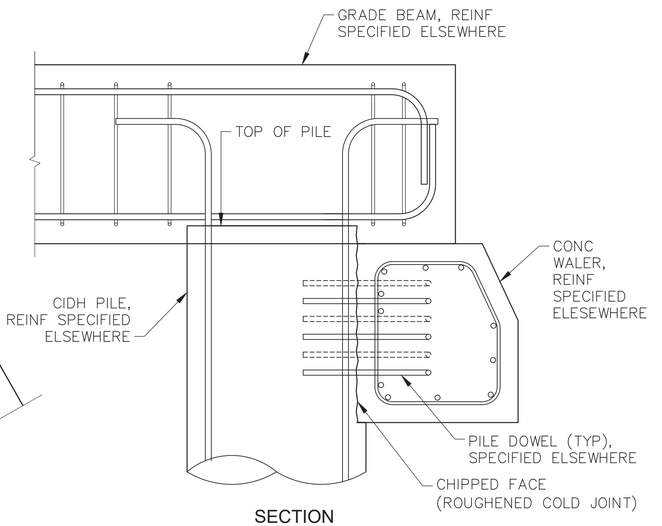
SECTION AT PILE

GRADE BEAM 3
SCALE: 1" = 1'

CIDH PILE 1
SCALE: 1" = 1'



PLAN



SECTION

GRADE BEAM AT CONCRETE WALER 4
SCALE: 1" = 1'
TRANSITION AT PILE 4 & 20

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CAL ENGINEERING & GEOLOGY, INC.
R.C.E. # 71938, R.G.E. # 2928 / EXP 12-31-21

REGISTERED PROFESSIONAL ENGINEER CHRISTOPHER A. HOCKETT No. Geo GE 2928 No. Civil C 71938 GEOTECHNICAL STATE OF CALIFORNIA

COUNTY OF SAN MATEO PUBLIC WORKS

REVISION	DATE	DESIGNED BY: MV	SCENIC DR REPAIR AND RECONSTRUCTION PROJECT	SCALE: AS SHOWN
		DRAWN BY: RL	LA HONDA, CALIFORNIA	DATE: 4/29/2021
		CHECKED BY: CH	**CONSTRUCTION DETAILS (1 OF 5)**	FILE NO.: E4976
		JAMES C. PORTER, DIRECTOR OF PUBLIC WORKS COUNTY OF SAN MATEO	555 COUNTY CENTER, 5th FLOOR REDWOOD CITY, CALIFORNIA 94063	
		FOR REDUCED PLANS ORIGINAL SCALE IS IN INCHES 0 1 2 3 4		SHEET 16 OF 22

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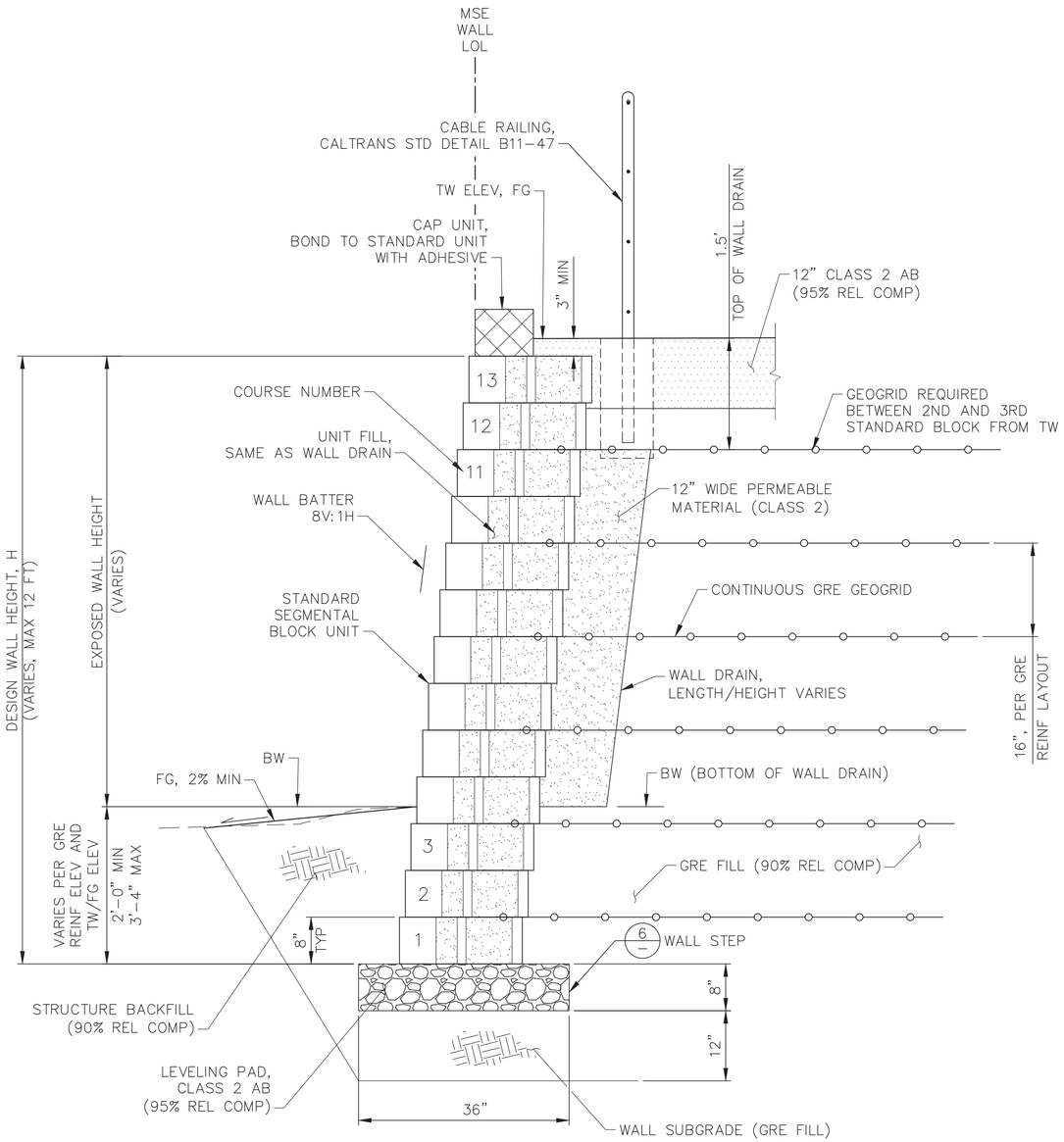
REGISTERED PROFESSIONAL ENGINEER
JAMES C. PORTER
C 48056
EXPIRES 12/31/21
CIVIL
STATE OF CALIFORNIA

APPROVED: _____

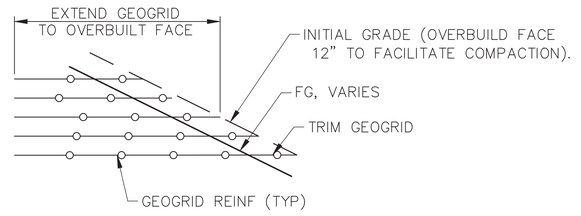
Digitally signed by James C. Porter
DN: cn=James C. Porter, o=Department of Public Works, ou=Director of Public Works, email=jporter@smcgov.org, c=US
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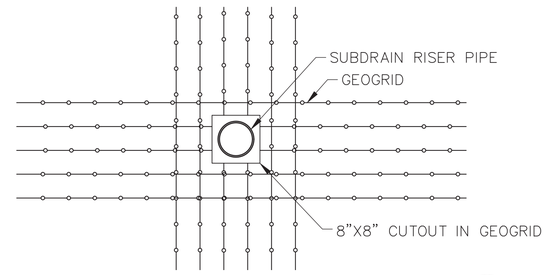
JAMES C. PORTER, DIRECTOR OF PUBLIC WORKS
R. C. E. # 48056 / EXPIRES 12-31-2021



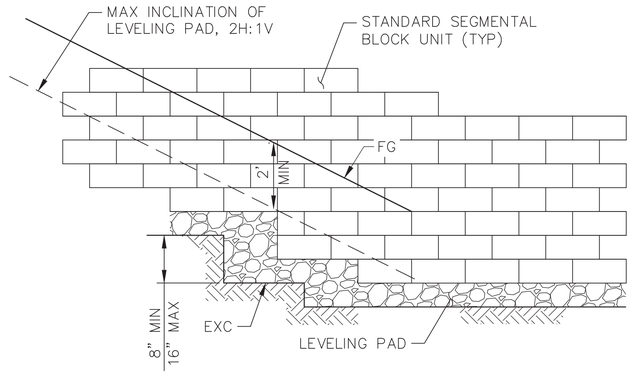
SEGMENTAL BLOCK WALL 5
SCALE: 1" = 1'



GEOGRID REINF EMBANKMENT DETAIL 8
NO SCALE



SUBDRAIN RISER THROUGH GEOGRID 7
NO SCALE



WALL STEP 6
NO SCALE

CE&G
CAL ENGINEERING & GEOLOGY

6455 Almaden Expwy.
Suite 100
San Jose, CA 95120
Phone: (408) 440-4542

APPROVED DATE: 04-29-2021

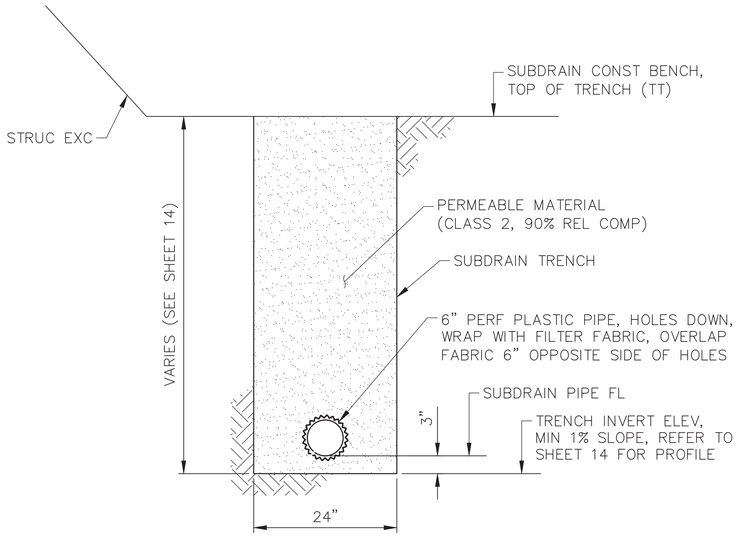
CHRIS HOCKETT, P.E., G.E., PRINCIPAL ENGINEER
CAL ENGINEERING & GEOLOGY, INC.
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REGISTERED PROFESSIONAL ENGINEER
CHRISTOPHER A. HOCKETT
No. Geo GE 2928
No. Civil C 71938
CIVIL-GEOTECHNICAL
STATE OF CALIFORNIA

COUNTY OF SAN MATEO PUBLIC WORKS

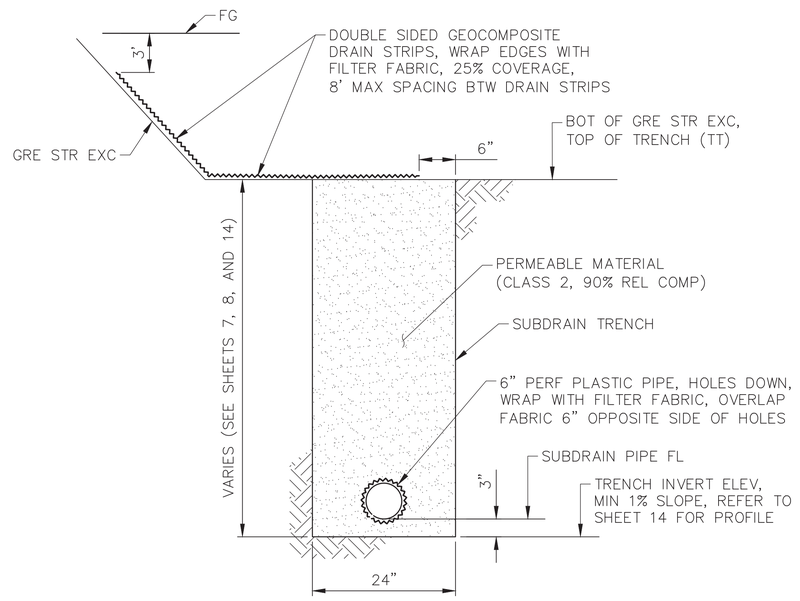
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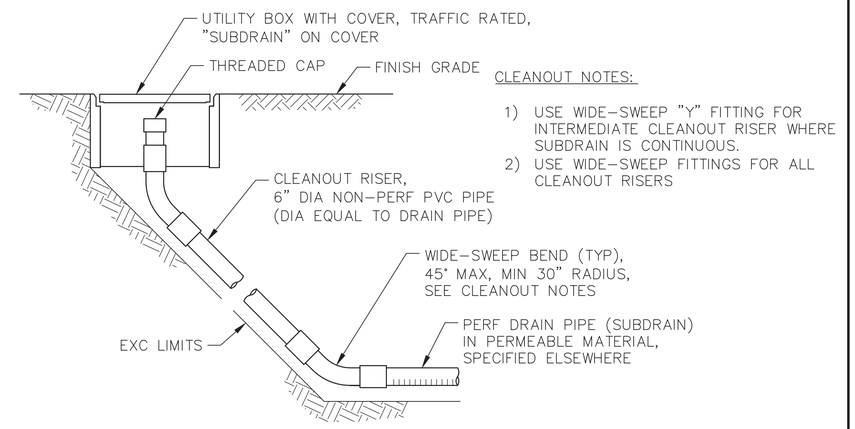
UPPER/LOWER SUBDRAIN 9

SCALE: 1" = 1'



ROADWAY SUBDRAIN 10

SCALE: 1" = 1'

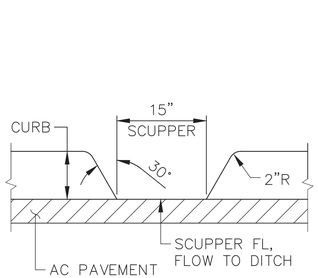


CLEANOUT NOTES:

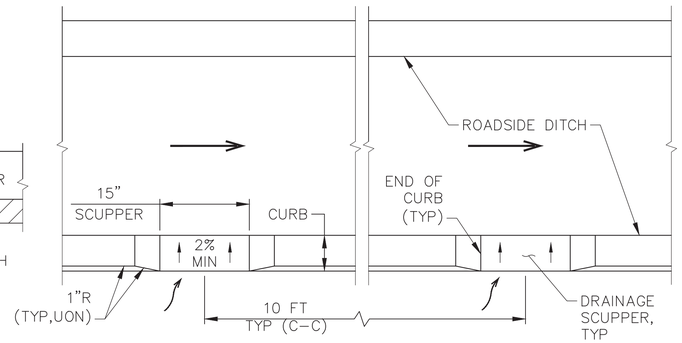
1) USE WIDE-SWEEP "Y" FITTING FOR INTERMEDIATE CLEANOUT RISER WHERE SUBDRAIN IS CONTINUOUS.
2) USE WIDE-SWEEP FITTINGS FOR ALL CLEANOUT RISERS

SUBDRAIN CLEANOUT AND RISER 11

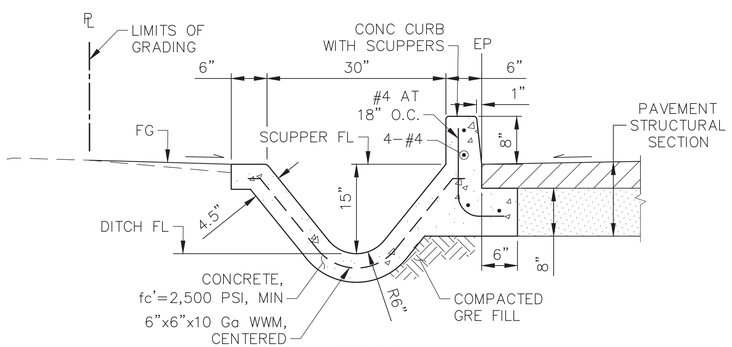
SCALE: 1" = 2'



ELEVATION - SCUPPERS



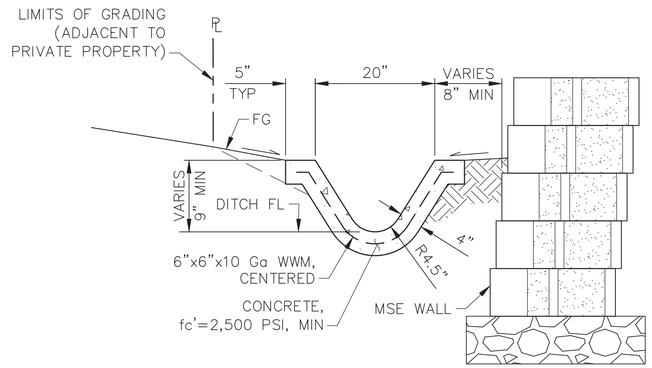
PLAN - SCUPPERS



SECTION

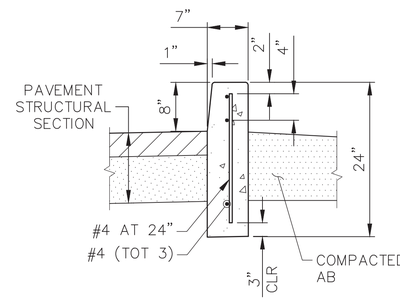
ROADSIDE DITCH AND CURB 12

SCALE: 1" = 1'



WALL DITCH 13

SCALE: 1" = 1'



ROADSIDE CURB 14

SCALE: 1" = 1'

APPROVED:

DATE: 04/29/2021

JAMES C. PORTER, DIRECTOR OF PUBLIC WORKS
R. C. E. # 48056 / EXPIRES 12-31-2021

REGISTERED PROFESSIONAL ENGINEER
JAMES C. PORTER
C 48056
EXPIRES 12/31/21
CIVIL
STATE OF CALIFORNIA

Digitally signed by James C. Porter
DN: cn=James C. Porter, o=Department of Public Works, ou=Director of Public Works, email=jporter@smcgov.org, c=US
Date: 2021.04.29 15:44:48 -07'00'

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CAL ENGINEERING & GEOLOGY
6455 Almaden Expwy.
Suite 100
San Jose, CA 95120
Phone: (408) 440-4542

APPROVED DATE: 04-29-2021

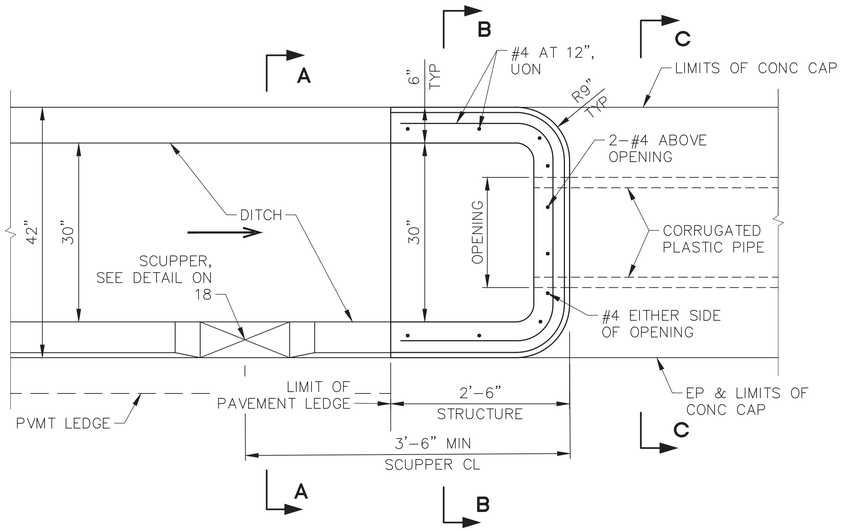
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COUNTY OF SAN MATEO
PUBLIC WORKS

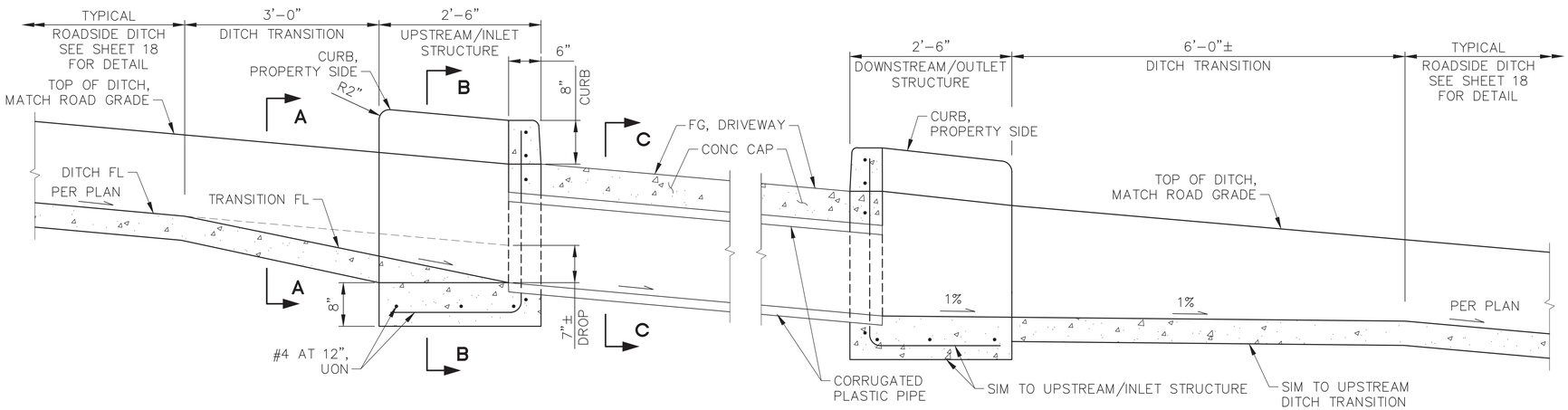
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		FOR REDUCED PLANS ORIGINAL SCALE IS IN INCHES 0 1 2 3 4		SHEET 18 OF 22

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PLAN - CULVERT STRUCTURE

UPSTREAM SHOWN, DOWNSTREAM SIMILAR



ELEVATION - CULVERT CROSSING

CULVERT CROSSING AT DRIVEWAY (15)

SCALE: 1" = 2'

DETAIL APPLIES TO ALL DRIVEWAY CROSSINGS UNLESS SHOWN OTHERWISE ELSEWHERE

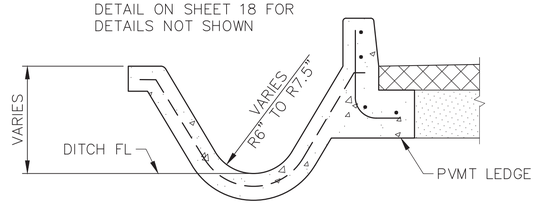
REGISTERED PROFESSIONAL ENGINEER — JAMES C. PORTER — C 48056 — EXPIRES 12/31/21 — CIVIL — STATE OF CALIFORNIA

APPROVED: Digitally signed by James C. Porter DN: cn=James C. Porter, o=Department of Public Works, ou=Director of Public Works, email=jporter@smcgov.org, c=US Date: 2021.04.29 15:54:31 -07'00'

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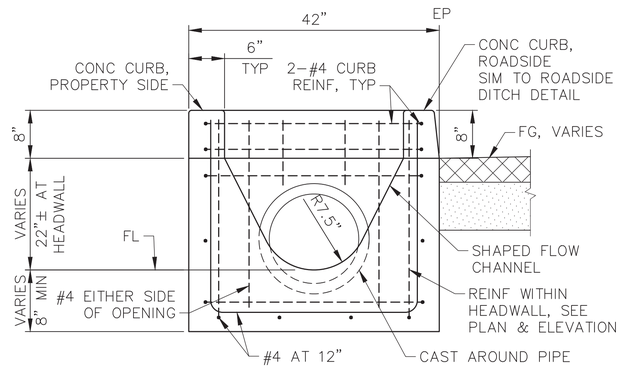
JAMES C. PORTER, DIRECTOR OF PUBLIC WORKS
R. C. E. # 48056 / EXPIRES 12-31-2021

NOTE:
REFER TO ROADSIDE DITCH DETAIL ON SHEET 18 FOR DETAILS NOT SHOWN



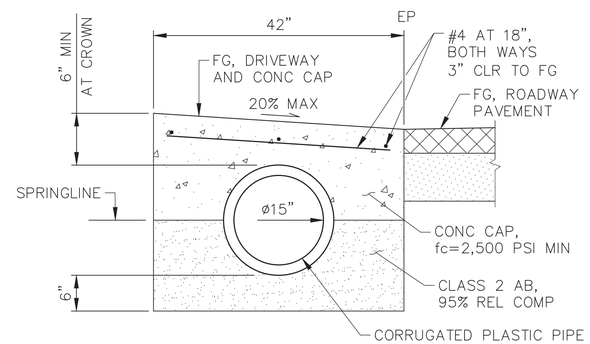
SECTION A-A : DITCH TRANSITION

UPSTREAM SHOWN, DOWNSTREAM SIMILAR



SECTION B-B : HEADWALL STRUCTURE

UPSTREAM SHOWN, DOWNSTREAM SIMILAR



SECTION C-C : CULVERT PIPE AND CONC CAP

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APPROVED DATE: 04-29-2021

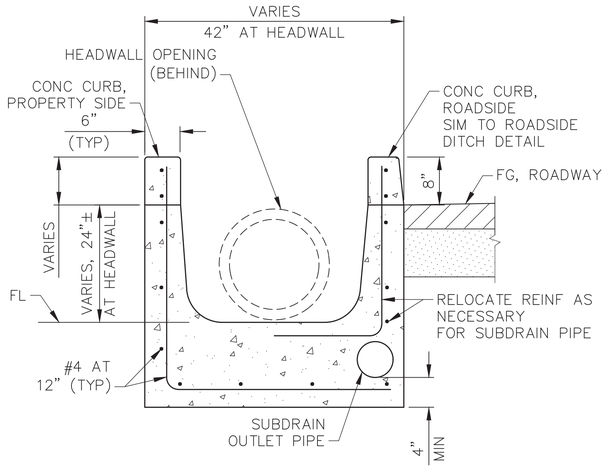
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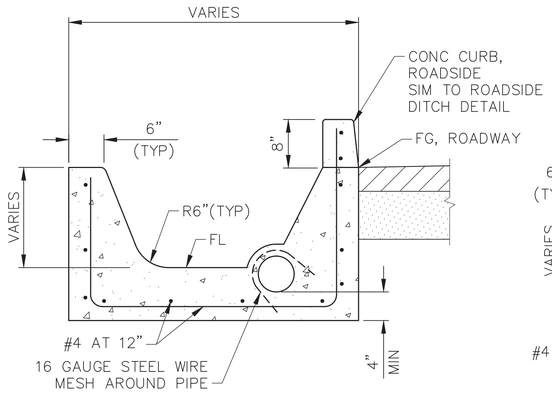
COUNTY OF SAN MATEO — PUBLIC WORKS

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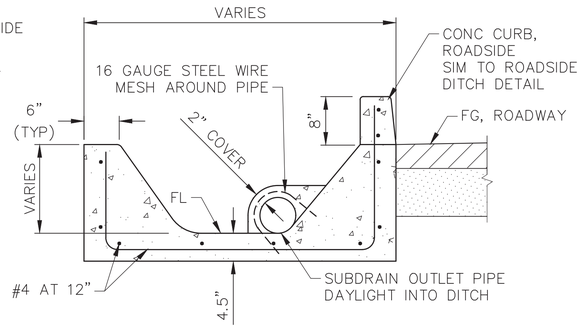
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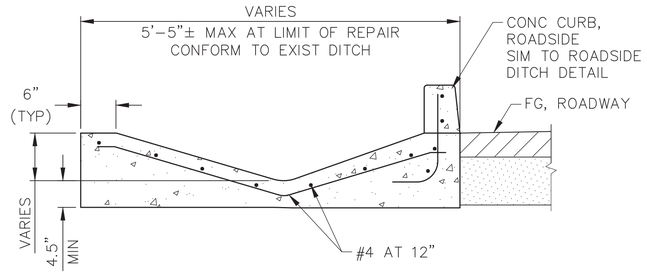
SECTION A-A



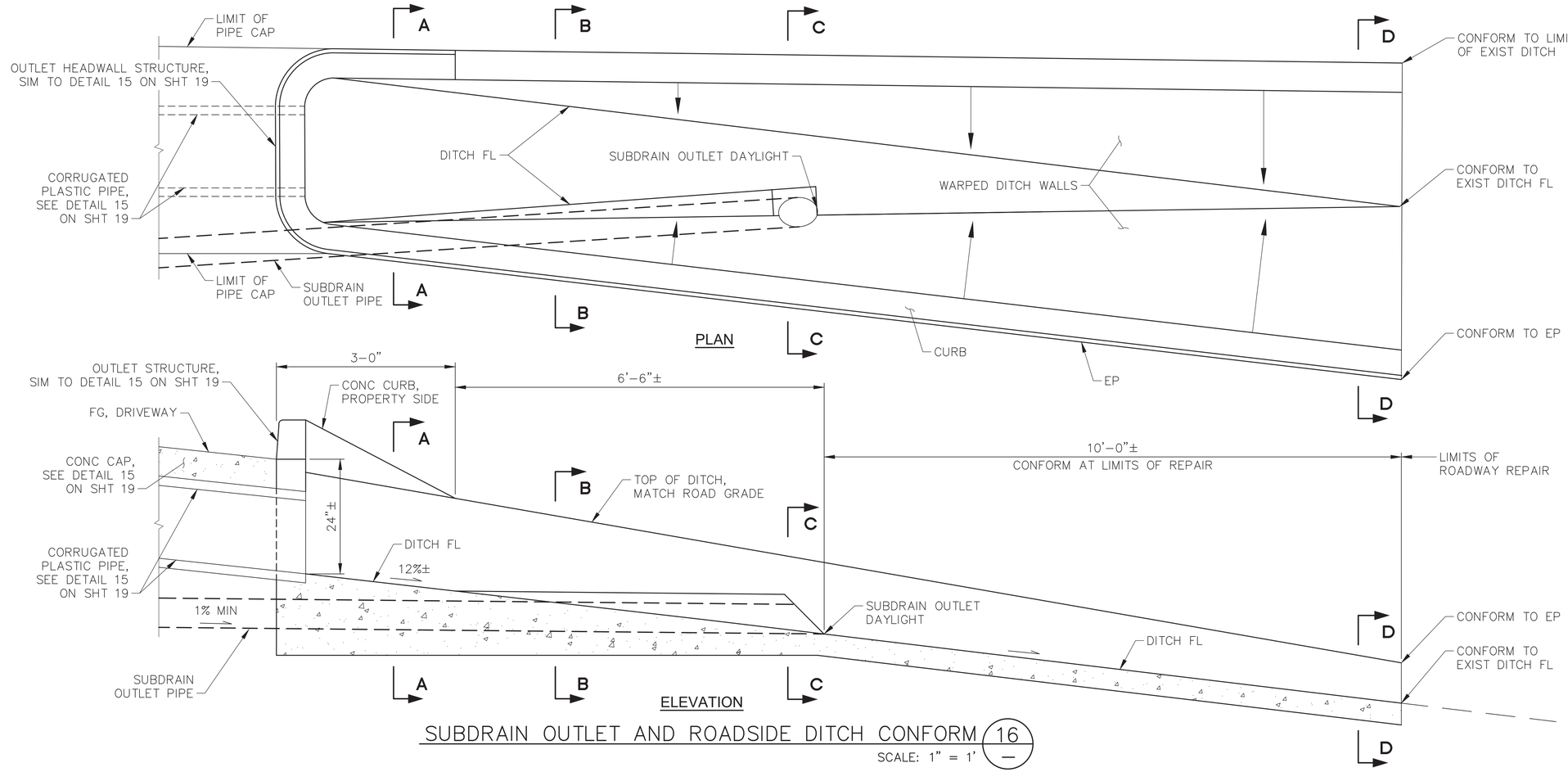
SECTION B-B



SECTION C-C



SECTION D-D



SUBDRAIN OUTLET AND ROADSIDE DITCH CONFORM

16

SCALE: 1" = 1'

REGISTERED PROFESSIONAL ENGINEER
JAMES C. PORTER
C 48056
EXPIRES 12/31/21
CIVIL
STATE OF CALIFORNIA

APPROVED:

Digitally signed by James C. Porter
DN: cn=James C. Porter, o=Department of Public Works, ou=Director of Public Works, email=jporter@smcgov.org, c=US
Date: 2021.04.29 15:55:46 -07'00'

DATE: 04/29/2021

JAMES C. PORTER, DIRECTOR OF PUBLIC WORKS
R. C. E. # 48056 / EXPIRES 12–31–2021

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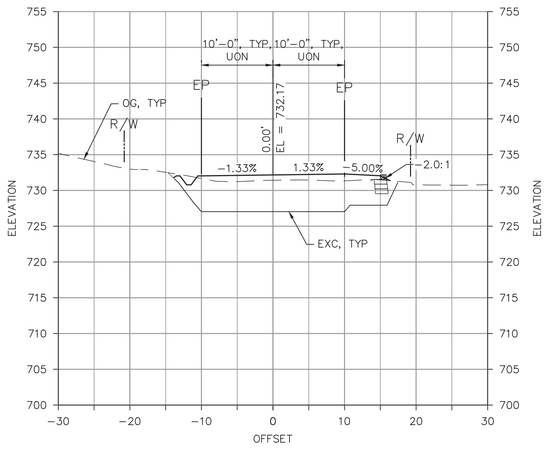
COUNTY OF SAN MATEO
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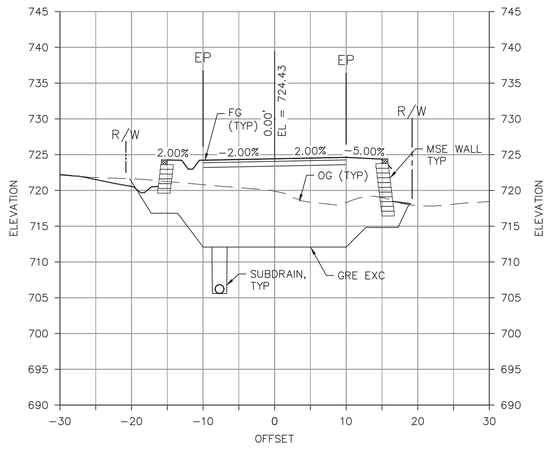
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SHEET 20 OF 22

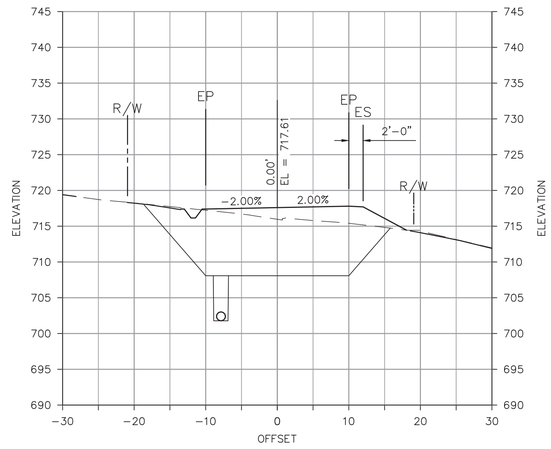
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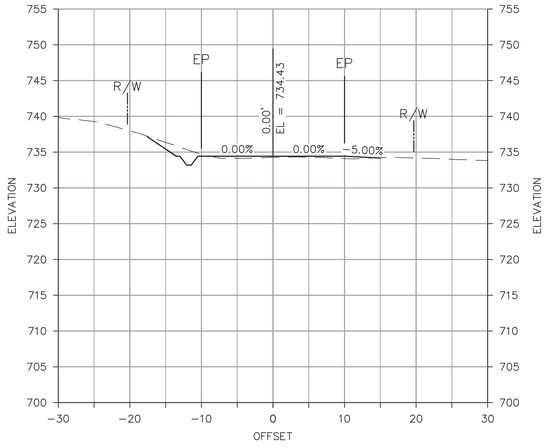
STA SC1+40



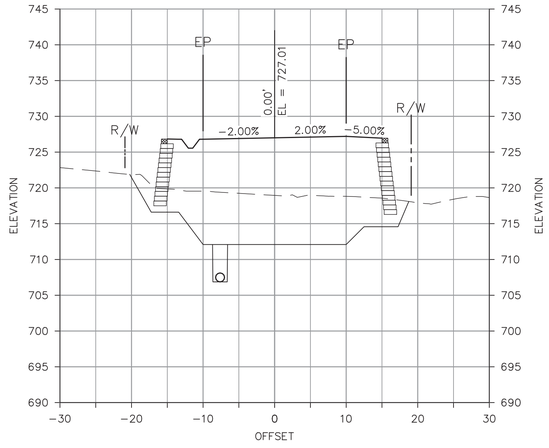
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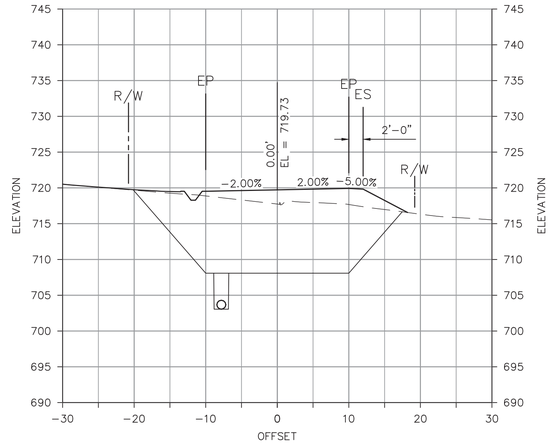
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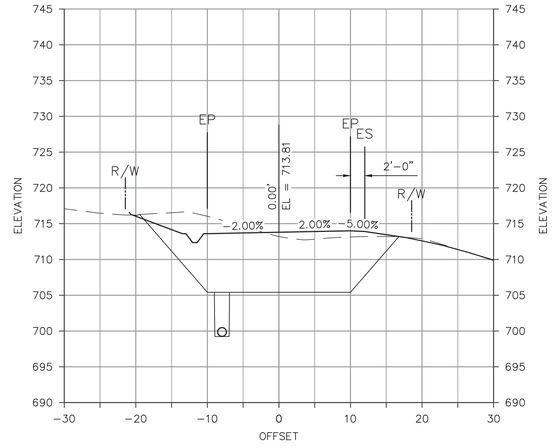
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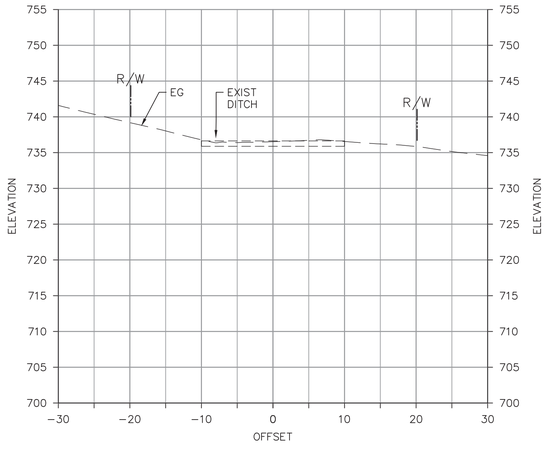
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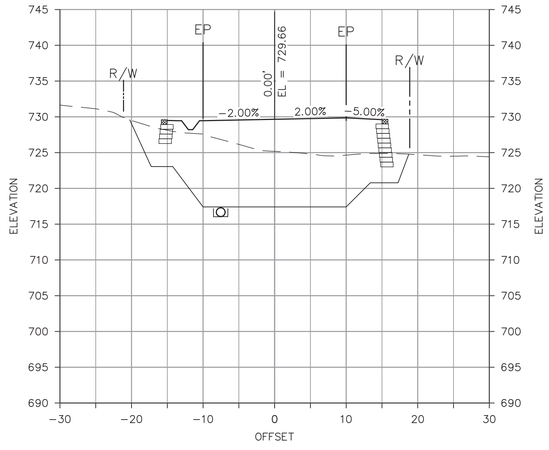
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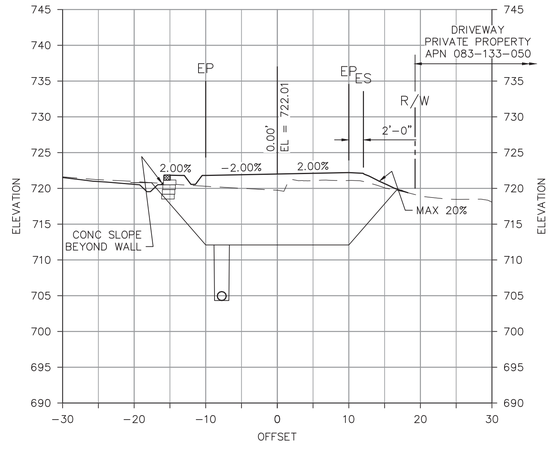
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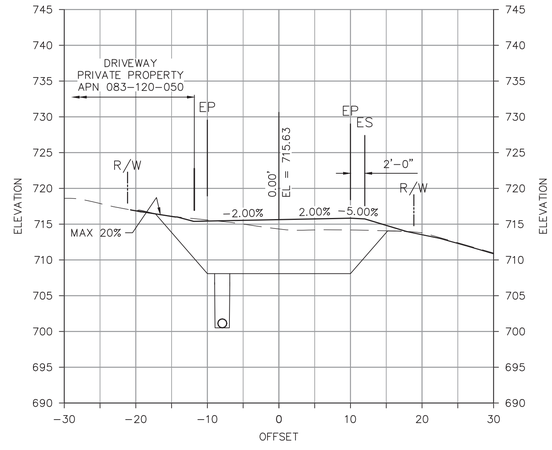
STA SC1+00



STA SC1+60



STA SC2+20



STA SC2+80

10 0 10 20
SCALE FEET

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Phone: (408) 440-4542

APPROVED DATE: 04-29-2021

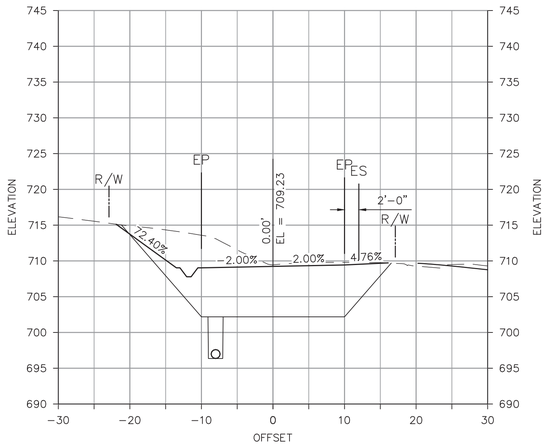
CHRIS HOCKETT, P.E., G.E., PRINCIPAL ENGINEER
CAL ENGINEERING & GEOLOGY, INC.
R.C.E. # 71938, R.G.E. # 2928 / EXP 12-31-21

REGISTERED PROFESSIONAL ENGINEER
CHRISTOPHER A. HOCKETT
No. Geo GE 2928
No. Civil C 71938
CIVIL - GEOTECHNICAL
STATE OF CALIFORNIA

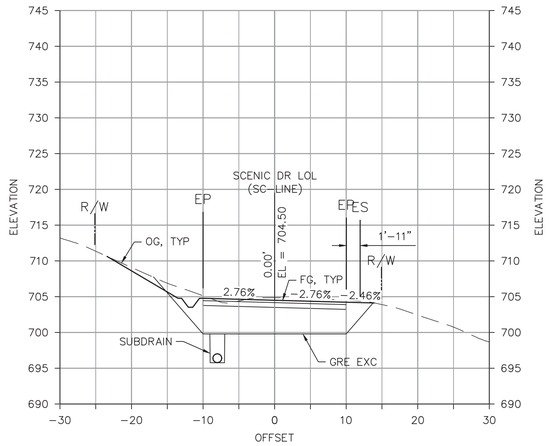
COUNTY OF SAN MATEO
PUBLIC WORKS

REVISION	DATE	DESIGNED BY: MV	SCENIC DR REPAIR AND RECONSTRUCTION PROJECT	SCALE: 1" = 10'
		DRAWN BY: RL	LA HONDA, CALIFORNIA	DATE: 4/29/2021
		CHECKED BY: CH	CROSS SECTIONS (1 OF 2)	FILE NO.: E4976
		JAMES C. PORTER, DIRECTOR OF PUBLIC WORKS COUNTY OF SAN MATEO	555 COUNTY CENTER, 5th FLOOR REDWOOD CITY, CALIFORNIA 94063	
		FOR REDUCED PLANS ORIGINAL SCALE IS IN INCHES 0 1 2 3 4		SHEET 21 OF 22

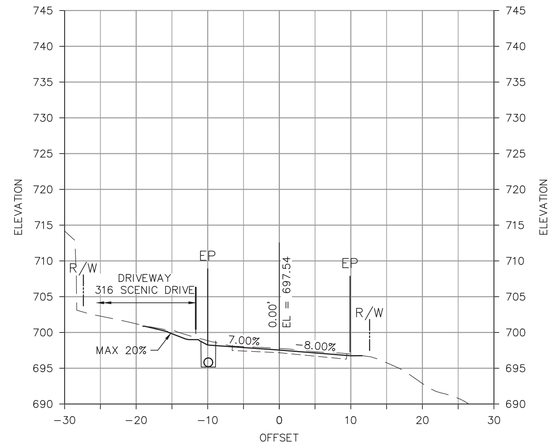
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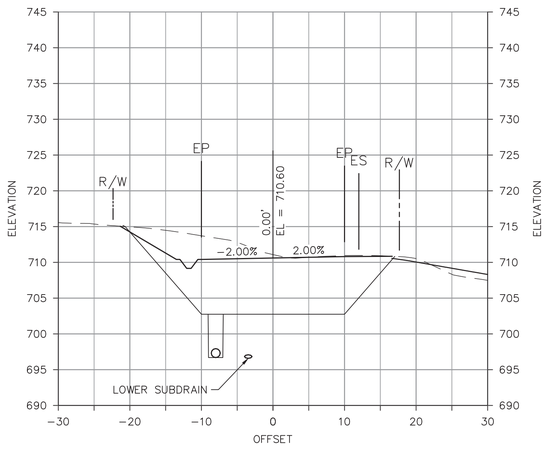
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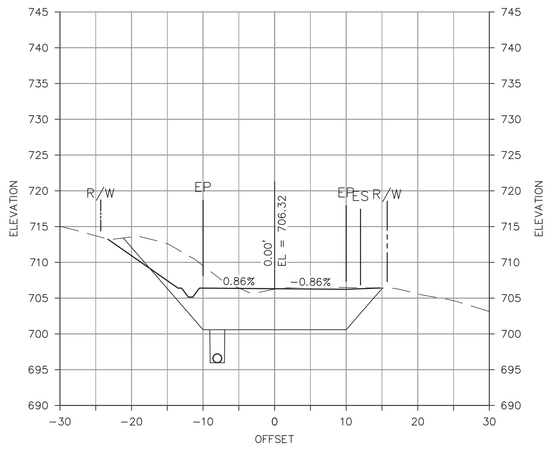
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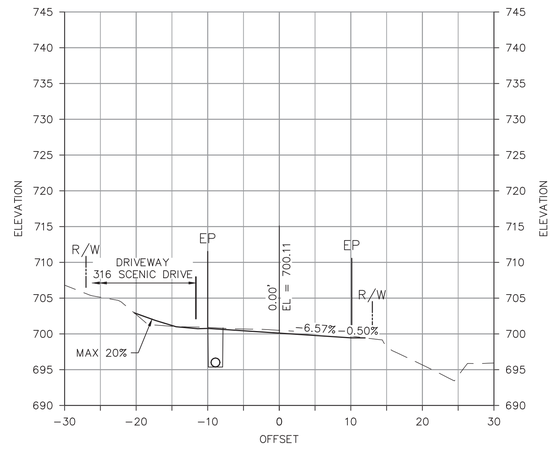
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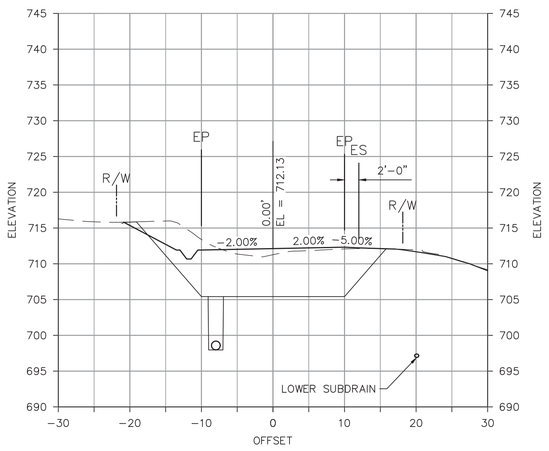
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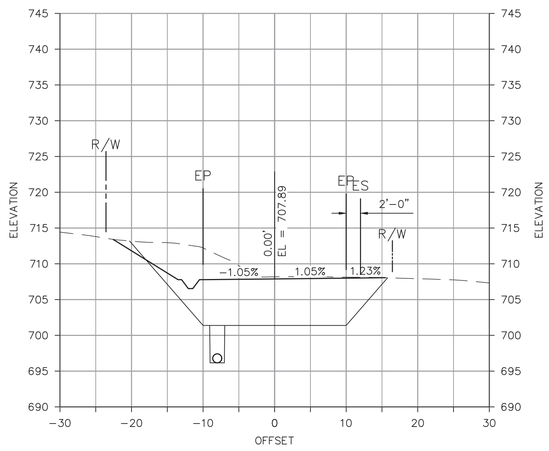
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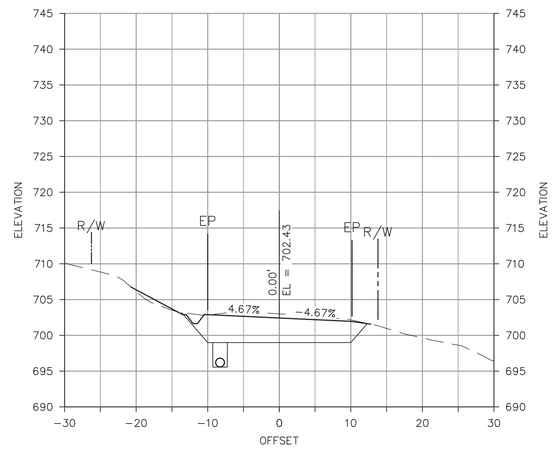
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STA SC3+20



STA SC3+80



STA SC4+40

SCALE 10 0 10 20 FEET

APPROVED: Digitally signed by James C. Porter DN: cn=James C. Porter, o=Department of Public Works, ou=Director of Public Works, email=jporter@smcgov.org, c=US Date: 2021.04.29 15:58:16 -07'00'

DATE: 04/29/2021

JAMES C. PORTER, DIRECTOR OF PUBLIC WORKS
R. C. E. # 48056 / EXPIRES 12-31-2021

REGISTERED PROFESSIONAL ENGINEER JAMES C. PORTER C 48056 EXPIRES 12/31/21 CIVIL STATE OF CALIFORNIA

CE&G
CAL ENGINEERING & GEOLOGY

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Phone: (408) 440-4542

APPROVED DATE: 04-29-2021

CHRIS HOCKETT, P.E., G.E., PRINCIPAL ENGINEER
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COUNTY OF SAN MATEO PUBLIC WORKS

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		FOR REDUCED PLANS ORIGINAL SCALE IS IN INCHES 0 1 2 3 4		SHEET 22 OF 22

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