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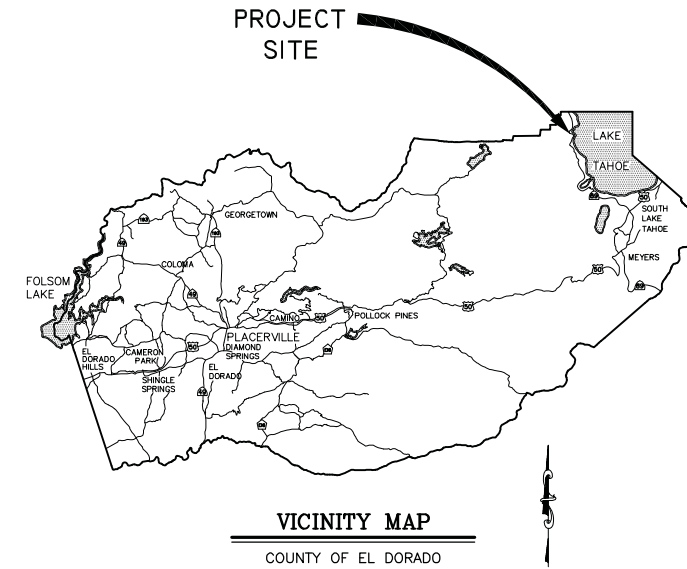
COUNTY OF EL DORADO, CA
COMMUNITY DEVELOPMENT AGENCY
TRANSPORTATION DIVISION

PROJECT PLANS FOR THE CONSTRUCTION OF THE 2015

TAHOE HILLS
EROSION CONTROL PROJECT

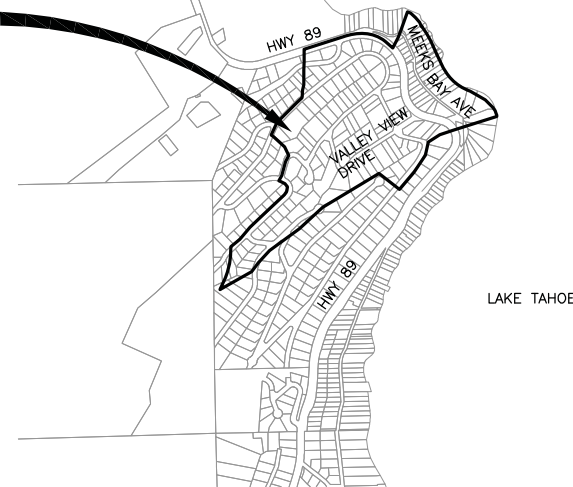
IN THE COUNTY OF EL DORADO, DISTRICT 5,
PORTIONS OF TAHOE HILLS UNIT NO. 1, RESUBDIVISION OF A
PORTION OF TAHOE HILLS UNIT NO. 1, RUBICON PALISADES, MEEKS
BAY VISTA, AND MEEKS BAY VISTA ADDITION TO THE NORTH TRACT

To be supplemented with the 2010 Standard Plans and Specifications of
the California Department of Transportation, unless otherwise noted.



NOT FOR CONSTRUCTION

TAHOE HILLS EROSION
CONTROL PROJECT



LOCATION MAP

SCALE: 1" = 1000'



SUBMITTED BY: DANIEL W. KIKKERT P.E.
SENIOR CIVIL ENGINEER
STATE OF CALIFORNIA NO. 70168

DATE: 04/20/15

FUNDING AGENCIES

USDA FOREST SERVICE

BOARD OF SUPERVISORS
RON "MIK" MIKULACO I
SHIVA FRENTZEN II
BRIAN K. VEERKAMP III
MICHAEL RANALLI IV
SUE NOVASEL V

COUNTY OF EL DORADO
COMMUNITY DEVELOPMENT AGENCY
TRANSPORTATION DIVISION
(530) 573-7900
924 B EMERALD BAY RD
SOUTH LAKE TAHOE, CA
96150

ADOPTED AND APPROVED BY:
BRIAN K. VEERKAMP
CHAIR, COUNTY OF EL DORADO BOARD OF SUPERVISORS
STEVEN M. PEDRETTI
DIRECTOR, COMMUNITY DEVELOPMENT AGENCY, COUNTY OF EL DORADO
JOHN H. KAHLING, P.E. RCE NO. 52426
DEPUTY DIRECTOR OF ENGINEERING, COMMUNITY DEVELOPMENT AGENCY,
TRANSPORTATION DIVISION

CONTRACT NO. PW 14-31075, CIP NO. 95171

TAHOE HILLS
EROSION CONTROL PROJECT

TITLE SHEET

SHEET 1 OF 19

CONTRACTOR'S LICENSE CLASSIFICATION: Bidders shall be properly licensed to perform the Work pursuant to the State Contractor's License Law (Business and Professions Code section 7000 et seq.) and shall possess a CLASS A LICENSE or equivalent combination of Classes required by the categories and type of Work included in the Contract Documents and Plans, at the time the Contract is awarded, and shall maintain a valid license through completion and acceptance of the Work including guarantee and warranty period. Failure of the successful Bidder to obtain proper and adequate licensing for an award of the Contract shall constitute a failure to execute the Contract, and shall result in forfeiture of the Bidders security.

REVISIONS

MARK	DATE	BY

GENERAL NOTES

- ALL IMPROVEMENTS WILL BE ACCOMPLISHED UNDER THE APPROVAL, INSPECTION, AND TO THE SATISFACTION OF THE COUNTY OF EL DORADO TRANSPORTATION DIVISION (TD). IMPROVEMENT CONSTRUCTION MUST COMPLY WITH THESE PLANS AND THE 2010 CALTRANS STANDARD PLANS, UNLESS NOTED OTHERWISE. ALL REFERENCES TO THE "STANDARD SPECIFICATIONS" MEAN THE STATE OF CALIFORNIA, DEPARTMENT OF TRANSPORTATION (CALTRANS) 2010 STANDARD SPECIFICATIONS. CONSTRUCTION NOT SPECIFIED ON THESE PLANS OR IN SPECIFIC COUNTY OF EL DORADO (COUNTY) ORDINANCES MUST CONFORM TO THE REQUIREMENTS OF THE STANDARD SPECIFICATIONS. YOU ARE OBLIGATED TO BE FAMILIAR WITH APPLICABLE SECTIONS OF THE STANDARD SPECIFICATIONS NOT DISCUSSED IN THE GENERAL NOTES. THE CONTRACT SPECIAL PROVISIONS SUPERSEDE THE STANDARD SPECIFICATIONS WHERE DISCREPANCIES OCCUR.
- CONSTRUCTION HOURS WILL BE WEEKDAYS BETWEEN 8:00 A.M. AND 6:30 P.M. UNLESS PRIOR APPROVAL IS RECEIVED FROM THE COUNTY TD.
- THE LOCATIONS AND EXTENT OF UNDERGROUND UTILITIES IN THE WORK AREA AS SHOWN ARE APPROXIMATE AND ARE NOT NECESSARILY COMPLETE. A REASONABLE EFFORT HAS BEEN MADE TO LOCATE AND DELINEATE UTILITIES BASED UPON AVAILABLE RECORDS. YOU MUST DETERMINE THE TYPE, LOCATION, SIZE, AND/OR DEPTH OF THE UTILITIES WITHIN THE WORK AREA BEFORE STARTING WORK. YOU OR ANY SUBCONTRACTOR FOR THIS CONTRACT ARE RESPONSIBLE FOR DAMAGES DUE TO THE FAILURE TO EXACTLY LOCATE AND PRESERVE UNDERGROUND UTILITIES. YOU MUST CONTACT UNDERGROUND SERVICE ALERT AT (800) 642-2444 AT LEAST 48 HOURS BEFORE ANY CONSTRUCTION. SEE THE SPECIAL PROVISIONS FOR NOTIFICATION REQUIREMENTS. YOU ASSUME COMPLETE RESPONSIBILITY FOR DAMAGED UTILITIES.
- UNLESS SHOWN OTHERWISE, YOU ARE RESPONSIBLE FOR THE PROTECTION OF ALL EXISTING SURVEY MONUMENTS AND OTHER SURVEY MARKERS, INCLUDING CONSTRUCTION STAKES DURING CONSTRUCTION AND YOU ARE RESPONSIBLE FOR THE COST TO REPLACE ANY SUCH SURVEY MONUMENTS, MARKERS, OR STAKES.
- YOU WILL PROVIDE ALL LIGHTS, SIGNS, BARRICADES, FLAG PERSONS, PILOT CAR, OR OTHER DEVICES NECESSARY TO CONTROL TRAFFIC THROUGH THE JOB SITE AND FOR PUBLIC SAFETY UNDER THESE PLANS, THE STANDARD SPECIFICATIONS, AND CALIFORNIA MANUAL ON UNIFORM TRAFFIC CONTROL DEVICES (MUTCD).
- YOU AGREE TO ASSUME SOLE RESPONSIBILITY FOR JOB SITE CONDITIONS DURING THE COURSE OF THE WORK, INCLUDING SAFETY OF ALL PERSONS AND PROPERTY, AND FURTHER AGREE THAT THIS REQUIREMENT APPLIES CONTINUOUSLY AND IS NOT LIMITED TO NORMAL WORKING HOURS UNDER THE CONTRACT AND STANDARD SPECIFICATIONS.
- THERE WILL BE NO GRADING OR LAND DISTURBANCE BETWEEN OCTOBER 15 AND MAY 1 UNLESS APPROVALS ARE OBTAINED FROM THE TAHOE REGIONAL PLANNING AGENCY (TRPA), AS PROVIDED IN THE LIMITED EXEMPTION DESCRIBED IN CHAPTER 64, SUBSECTION 64.2.B. OF THE TRPA CODE OF ORDINANCES. APPROVALS FOR GRADING BETWEEN OCTOBER 15 AND MAY 1 MUST ALSO BE OBTAINED FROM THE REGIONAL WATER QUALITY CONTROL BOARD, LAHONTAN. IF REQUIRED, THE COUNTY WILL OBTAIN THESE APPROVALS.
- YOU WILL MAINTAIN A SET OF PLANS ON THE JOB SITE SHOWING "AS-CONSTRUCTED" CHANGES MADE TO DATE. UPON COMPLETION OF THE WORK, YOU WILL GIVE TO THE COUNTY A SET OF PLANS, MARKED UP TO THE SATISFACTION OF THE COUNTY, REFLECTING THE AS-CONSTRUCTED MODIFICATIONS.
- ALL CONTROL STATIONING AND DATA DIMENSIONING REFERENCE THE CENTERLINE OF THE FACILITY SHOWN, UNLESS NOTED OTHERWISE.
- YOU WILL NOT CLOSE OFF ANY UTILITY LINES OR OPEN VALVES OR TAKE ANY OTHER ACTION WHICH WOULD AFFECT THE OPERATION OF WATER OR SEWER SYSTEMS WITHOUT APPROVAL FROM THE TAHOE CITY PUBLIC UTILITY DISTRICT (TCPUD). APPROVAL MUST BE REQUESTED AT LEAST 48 HOURS BEFORE INTERRUPTION OF THE UTILITY SERVICE IS REQUIRED. ANY INTERRUPTION TO ACTIVE WATER OR SEWER SERVICES, INCLUDING FIRE HYDRANTS, WHETHER INTENTIONAL OR NOT, MUST BE KEPT TO A MINIMUM TIME PERIOD. IF SERVICE TO BUILDINGS IS TO BE OFF FOR MORE THAN FOUR HOURS, YOU MUST ADVISE TCPUD.
- YOU ARE REQUIRED TO IMPLEMENT DUST CONTROL MEASURES TO ENSURE THAT DUST RESULTING FROM YOUR ACTIVITIES IS CONTROLLED AND COMPLIES WITH THE PROVISIONS OF SECTION 7, "LEGAL RELATIONS AND RESPONSIBILITY TO THE PUBLIC," AND SECTION 14, "ENVIRONMENTAL STEWARDSHIP," OF THE STANDARD SPECIFICATIONS, COUNTY, AND LOCAL ORDINANCES. SEE THE SPECIAL PROVISIONS FOR DUST AND TRACKING CONTROL AND SWEEPING REQUIREMENTS.
- YOU ARE RESPONSIBLE FOR IMPLEMENTING ALL TEMPORARY EROSION CONTROL MEASURES. THE TEMPORARY EROSION CONTROL MEASURES MUST COMPLY WITH THE TRPA "HANDBOOK OF BEST MANAGEMENT PRACTICES" AND THE STORM WATER POLLUTION PREVENTION PLAN (SWPPP). THE TD WILL CONTACT TRPA BEFORE THE START OF THE WORK FOR A PRE-GRADING INSPECTION OF THE INSTALLED TEMPORARY EROSION CONTROL FACILITIES. YOU ARE RESPONSIBLE FOR THE MAINTENANCE AND PERFORMANCE OF THE TEMPORARY EROSION CONTROL MEASURES THROUGHOUT THE DURATION OF THE WORK. SEE THE SPECIAL PROVISIONS REGARDING TEMPORARY EROSION CONTROL FACILITY REMOVAL.
- CONSTRUCTION LIMITS SHOWN DELINEATE THE BOUNDARIES FOR YOUR ACTIVITIES BEYOND THE COUNTY STREET RIGHT-OF-WAY. CONSTRUCTION LIMIT FENCING MUST BE ERRECTED ALONG THESE BOUNDARIES BEFORE WORK STARTS. VEGETATION WITHIN THESE LIMITS MUST BE PROTECTED TO THE EXTENT FEASIBLE. ALL TREES MUST BE PROTECTED UNLESS SHOWN TO BE REMOVED.
- UNLESS NOTED OTHERWISE, ALL REVEGETATION IS TO BE COMPLETED BY OTHERS.
- YOU WILL ONLY USE THE DESIGNATED SITES SHOWN FOR STORAGE OF EQUIPMENT AND MATERIALS. YOU ARE RESPONSIBLE FOR THE SECURITY OF EQUIPMENT AND MATERIALS.
- IT IS YOUR AND YOUR SUBCONTRACTOR(S) RESPONSIBILITY TO EXAMINE THE JOB SITE BEFORE THE OPENING OF BID PROPOSALS. YOU MUST BECOME FAMILIAR WITH THE NATURE AND LOCATION OF THE WORK AND THE GENERAL AND LOCAL CONDITIONS, PARTICULARLY THOSE AFFECTING THE AVAILABILITY OF TRANSPORTATION, THE DISPOSAL, HANDLING, AND STORAGE OF MATERIALS, AVAILABILITY OF LABOR, WATER, ELECTRICITY, ROADS, THE UNCERTAINTIES OF WEATHER, THE CONDITIONS OF THE GROUND, SURFACE AND SUBSURFACE MATERIALS, THE EQUIPMENT AND FACILITIES NEEDED FOR AND DURING THE PERFORMANCE OF THE WORK. FAILURE BY YOU OR YOUR SUBCONTRACTOR(S) TO ACQUAINT YOURSELVES WITH THE INFORMATION AVAILABLE WILL NOT RELIEVE YOU OR YOUR SUBCONTRACTOR(S) FROM RESPONSIBILITY FOR PROPERLY ESTIMATING THE DIFFICULTY AND COST OF SUCCESSFULLY PERFORMING THE WORK.
- ELEVATIONS FOR PIPE INVERTS, FLOWLINES, TOPS OF GRATES, RIMS, ETC., ARE BASED ON THE TOPOGRAPHIC INFORMATION SHOWN. YOU WILL VERIFY ALL NECESSARY SURFACE ELEVATIONS IN THE FIELD AND NOTIFY THE TD OF ANY DISCREPANCIES WHICH MIGHT AFFECT THE OPERATION OF THE NEW FACILITIES BEFORE BREAKING GROUND FOR THE INSTALLATION. THE TD MUST BE CONTACTED IF ELEVATIONS ARE INCORRECT SO PROPER ADJUSTMENTS CAN BE MADE BEFORE THE INSTALLATION OF THE FACILITIES.
- EXCEPT FOR THOSE OBTAINED BY THE TD, YOU MUST OBTAIN, AT YOUR EXPENSE, ALL PERMITS, LICENSES, INSURANCE POLICIES, ETC., NECESSARY TO COMPLY WITH STATE AND LOCAL LAWS ASSOCIATED WITH THE PERFORMANCE OF THE WORK.
- YOU ARE RESPONSIBLE TO REVIEW THE CONTRACT DOCUMENTS FOR SUBMITTALS REQUIRED FOR COUNTY REVIEW AND ACCEPTANCE.
- THE COUNTY WILL PROVIDE CONSTRUCTION STAKING IN COMPLIANCE WITH SECTION 5-1.26 OF THE STANDARD SPECIFICATIONS.
- THE PLANS SHOW SLOPE LENGTHS FOR PIPE ROUNDED TO THE NEAREST FOOT. ALL PIPE LENGTHS AND INVERT ELEVATIONS SHOWN ON THE PLANS ARE TO THE CENTERLINE OF THE STRUCTURES TO WHICH THE PIPES ARE ATTACHED. SEE THE STANDARD SPECIFICATIONS FOR THE MAXIMUM ALLOWABLE DEFLECTION ANGLE AT EACH PIPE JOINT.
- YOU ARE RESPONSIBLE TO MAINTAIN THE GRADING LIMITS AS SHOWN ON THE PLANS, DETAILS, CROSS SECTIONS, AND AS DIRECTED BY THE ENGINEER. SEE SHEET iii OF THE PLANS FOR THE RAW EARTHWORK QUANTITIES ASSOCIATED WITH GRADING.

ABBREVIATIONS

NOTE: LOWER CASE TEXT WITHIN PLAN SET INDICATES EXISTING

△	DELTA = DEFLECTION ANGLE	LTD	LAKE TAHOE DATUM
A	ARCH OR ASPEN	LV	LAKEVIEW
AB	AGGREGATE BASE	MAT'L	MATERIAL
ABAND	ABANDONED	MISC	MISCELLANEOUS
ABC	ARTICULATED BLOCK CHANNEL	MOC	MID POINT ON CURVE
AC	ASPHALT CONCRETE	MOD	MODIFIED
AP	ANGLE POINT	N	NORTH
APN	ASSESSOR'S PARCEL NUMBER	NIC	NOT IN CONTRACT
BC	BEGIN CURVE	NGVD	NATIONAL GEODETIC VERTICAL DATUM
BCR	BEGIN CURB RETURN	NTS	NOT TO SCALE
BGN	BEGIN	OAE	OR APPROVED EQUAL
BLC	BLANKET-LINED CHANNEL	OC	ON CENTER
BV	BAY VIEW	OD	OUTSIDE DIAMETER
BVCE	BEGIN VERTICAL CURVE ELEVATION	OH	OVERHEAD
BVCS	BEGIN VERTICAL CURVE STATION	OVEREX OR O/X	OVEREXCAVATION
C	CEDAR	P	PINE
CALCS	CALCULATIONS	PC	POINT OF BEGINNING OF CURVE
CATV	CABLE TELEVISION	PCC	PORTLAND CEMENT CONCRETE OR POINT OF COMPOUND CURVE
CC	CENTER TO CENTER	PERF	PERFORATED
CF	CUBIC FEET OR CURB FACE	PL	PROPERTY LINE
CHD	CHORD DIRECTION	PCVCE	POINT OF COMPOUND VERTICAL CURVE ELEVATION
CIR	CIRCLE	PCVCS	POINT OF COMPOUND VERTICAL CURVE STATION
CL	CENTERLINE	POR	PORTION
CL	CLASS OR CENTERLINE	PRVCE	POINT OF REVERSE VERTICAL CURVE ELEVATION
CLR	CLEAR	PRVCS	POINT OF REVERSE VERTICAL CURVE STATION
CO	CURB OPENING OR CLEANOUT	PP	POWER/UTILITY POLE
CO.	COUNTY	PRC	POINT OF REVERSE CURVE
CONC	CONCRETE	PROP	PROPOSED
CONST	CONSTRUCT	PT	POINT OR POINT OF TANGENCY
CMP	CORRUGATED METAL PIPE	PUE	PUBLIC UTILITY EASEMENT
CR	CEDAR RIDGE	PVC	POLYVINYL CHLORIDE
CSP	CORRUGATED STEEL PIPE	PvIe	POINT OF VERTICAL INTERSECTION ELEVATION
CT	CALTRANS OR COURT	PVIS	POINT OF VERTICAL INTERSECTION STATION
CTC	CALIFORNIA TAHOE CONSERVANCY	PVMT	PAVEMENT
CY	CUBIC YARD	R	RADIUS
C&G	CURB AND GUTTER	R&R	REMOVE & REPLACE
D	DEPTH	RC	RELATIVE COMPACTION
DBL	DOUBLE	RCP	REINFORCED CONCRETE PIPE
DET	DETAIL	RD	ROAD
DI	DRAINAGE INLET OR DUCTILE IRON	REF	REFERENCE
DIA OR Ø	DIAMETER	REQ'D	REQUIRED
DISS	DISSIPATOR	RLC	ROCK-LINED CHANNEL
DR	DRIVE	ROW	RIGHT-OF-WAY
D/W	DRIVEWAY	RSP	ROCK SLOPE PROTECTION
E	EAST	RT	RIGHT
EA	EACH	RW	RETAINING WALL
EC	END OF CURVE	S	SOUTH OR SANITARY SEWER
ECR	END OF CURB RETURN	SCO	SEWER CLEAN OUT
EG	EXISTING GRADE	SD	STORM DRAIN
ELEV	ELEVATION	SDMH	STORM DRAIN MANHOLE
ELEC	ELECTRIC	SEZ	STREAM ENVIRONMENT ZONE
ENGR	ENGINEER	SF	SQUARE FEET
EP	EDGE OF PAVEMENT	SHT	SHEET
ESA	ENVIRONMENTALLY SENSITIVE AREA	SL	SLOPE LENGTH
ESMT	EASEMENT	SMH	SEWER MANHOLE
EVCE	END VERTICAL CURVE ELEVATION	ST	SEDIMENT TRAP OR STREET STATION
EVCS	END VERTICAL CURVE STATION	STA	STATION
EX OR EXIST	EXISTING	STD	STANDARD
F	FIR	STL	STEEL
FES	FLARED END SECTION	SWPPP	STORM WATER POLLUTION PREVENTION PLAN
FG	FINISHED GRADE	T	TELEPHONE
FH	FIRE HYDRANT	TBC	TOP BACK OF CURB
FL	FLOWLINE	TBD	TOP BACK OF DIKE
FS	FINISH SURFACE	TCPUD	TAHOE CITY PUBLIC UTILITY DISTRICT
G	GAS	TD	TOP OF DIKE
GA	GAUGE	TBR	TO BE REMOVED
GB	GRADE BREAK	TC	TOP OF GRATE
GLS	GRASS-LINED SWALE	TTL	TOTAL
GW	GROUND WATER	TRANS	TRANSITION
H	HORIZONTAL	TRM	TURF REINFORCEMENT MAT
HDPE	HIGH DENSITY POLYETHYLENE	TRPA	TAHOE REGIONAL PLANNING AGENCY
HP	HIGH POINT	TYP	TYPICAL
HWL	HIGH WATER LINE	UG	UNDERGROUND
ID	INSIDE DIAMETER	UKN	UNKNOWN
IE	INVERT ELEVATION	USFS	UNITED STATES FOREST SERVICE
INCR	INCREASE	V	VERTICAL
INST	INSTALL	VV	VALLEY VIEW
INTRXN	INTERSECTION	W	WEST OR WATER
L	LENGTH	W/	WITH
LC	LENGTH OF CHORD	W/O	WITHOUT
LF	LINEAR FEET	WC	WILLOW CLUSTER
LP	LOW POINT	WV	WATER VALVE
LT	LEFT		

LEGEND

EXISTING		PROPOSED	
(SCREENED AND/OR DASHED)	EXISTING (AS NOTED)		
---	RIGHT-OF-WAY OR PROPERTY LINE	---	CENTERLINE
---	DRAINAGE OR SLOPE EASEMENT	---	SAWCUT (AS NOTED)
---	UTILITY (PUE) EASEMENT	---	AC PAVEMENT
---	LAND CAPABILITY BOUNDARY	XXXX.XX	AC REMOVAL
---	10' SEZ SETBACK	XXXX.XX	ELEVATION
○	ROCK	XXXX.XX	ELEVATION, EG CL, PROPOSED (PROFILE ONLY)
●	FOUND MONUMENT	○ □	CSP INLET/RISER OR STORM DRAIN MANHOLE, DRAINAGE INLET
△	SURVEY CONTROL POINT	VV	CUT OR FILL SLOPE
XXXX.X	ELEVATION	(X)	DETAIL REF NUMBER SHEET NUMBER
○	SEWER MANHOLE	■	ROCK
○	SEWER CLEAN OUT	---	SD PIPE (MATERIAL AS NOTED)
□	DRAINAGE INLET	-RSF-ESA-	REINFORCED SILT FENCE AND TYPE ESA FENCE
□	GAS METER	D	FLARED END SECTION
WV	WATER VALVE	#:#	SLOPE RATIO, H:V
WM	WATER METER	---	ARTICULATED BLOCK CHANNEL
○	MONITORING WELL	---	BLANKET-LINED CHANNEL
---	WATER LINE	---	TREE REMOVAL
---	SEWER LINE	---	FLOWLINE
---	GAS LINE	---	CUT
---	ROAD	---	FILL
---	REFERENCE REQUIRED		
---	ROCK-LINED CHANNEL		
---	RIGHT-OF-WAY		
---	ROCK SLOPE PROTECTION		
---	POWER/UTILITY POLE		
---	UTILITY POLE & GUY ANCHOR		
---	FIRE HYDRANT		
---	FENCE		
---	FLOWLINE		
---	TREE, DIAMETER AND TYPE		
---	STUMP		
---	WILLOW CLUSTER		
---	LANDSCAPE LIGHTING		

UTILITIES	
CABLE TELEVISION	CHARTER COMMUNICATIONS, (775) 588-1077
NATURAL GAS	SOUTHWEST GAS, (530) 543-3225
ELECTRIC	LIBERTY UTILITIES, (530) 541-6400
SEWER & WATER	TAHOE CITY PUD, (530) 583-3796
TELEPHONE	AT&T, (530) 888-2031
STORM DRAIN	CO. OF EL DORADO TRANSPORTATION DIVISION, (530) 573-3180

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ORIGINAL SCALE IS IN INCHES
2
1
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FOR REDUCED PLANS

REVISION	NUMBER	DATE	DESCRIPTION	BY



PREPARED UNDER THE SUPERVISION OF:

 REGISTERED CIVIL ENGINEER
 DATE: 04/20/15

DESIGNED: ALD
 DRAWN: ALD
 CHECKED: DWK
 DATE: 04/2015
 ROAD NUMBER: ---



COUNTY OF EL DORADO
 COMMUNITY DEVELOPMENT AGENCY
 TRANSPORTATION DIVISION

TAHOE HILLS ECP
 GENERAL NOTES, ABBREVIATIONS,
 AND LEGEND

SHEET
 ii
 2 of 19
 CONTRACT NO.
 PW 14-31075
 CIP NO.
 95171

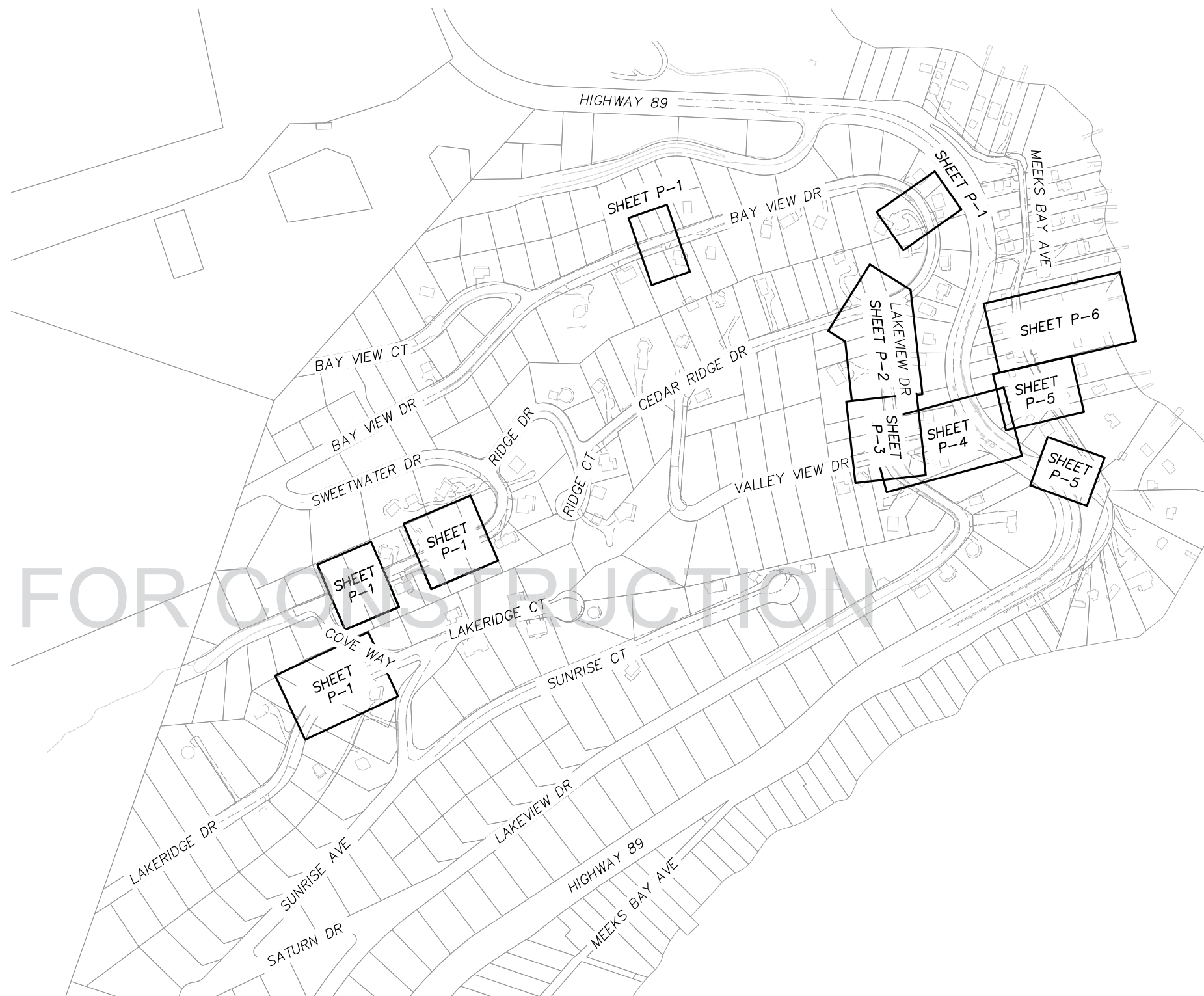
EARTHWORK SUMMARY BY IMPROVEMENT

ALL VOLUMES ARE IN CUBIC YARDS

FACILITY	CUT	FILL	SALVAGED SOIL	HUMUS FOR TOPSOIL MIX	TOPSOIL MIX	MULCH
RSP, BOULDERS	46					
PIPE, PERF PIPE	54			0.75	3	1.5
CSP INLETS & RISER	27	0.5				
ABC, BLC	52	2.5		1.75	7	1.5
CONC APRON, FILL DITCH	0.5	7.5		0.25	1	.5
CURB OPENING, C&G, CURB ENDS	2.0	0.5		0.25	1	.5
GRADE TO DRAIN, R&R D/W	0.5	1		1.50	6.0	3.0
DI & SDMH	18					
BASIN	172		45	10.5	42	2
TOTALS	372	12	45	15	60	9

THE QUANTITIES SHOWN HAVE BEEN CALCULATED USING THE TOPOGRAPHIC INFORMATION SHOWN ON THE PLANS. THE VOLUMES SHOWN ARE RAW, MEANING THAT NEITHER SHRINKAGE, SUBSIDENCE, NOR BULKING HAVE BEEN TAKEN INTO ACCOUNT. FOR THE QUANTITIES SHOWN IT IS ASSUMED THAT NO ROCK WAS ENCOUNTERED. IT IS YOUR RESPONSIBILITY TO REVIEW THESE QUANTITIES AND APPLY THE NECESSARY FACTORS TO DETERMINE THE VOLUME OF IMPORT MATERIAL NECESSARY (OR IF IT IS NECESSARY).

QUANTITY OF SALVAGED SOIL IN THE SUMMARY TABLE REFLECTS THAT AMOUNT REQUIRED FOR THE 3:1 RATIO FOR TOPSOIL MIX AND THE ONLY SOURCE SHOWN IS FROM THE BASIN EXCAVATION. YOU MAY SALVAGE SOIL FROM ANY OF THE LOCATIONS DESCRIBED IN SECTION 21-1.02D OF THE SPECIAL PROVISIONS AS LONG AS THE REQUIRED QUANTITY (45 CY) IS MET.



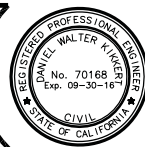
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 For reduced plans: 1
 0

NOT FOR CONSTRUCTION



SCALE: 1" = 200'

REVISION	NUMBER	DATE	DESCRIPTION	BY



PREPARED UNDER THE SUPERVISION OF:
[Signature]
 REGISTERED CIVIL ENGINEER
 DATE: 04/20/15

DESIGNED: ALD
 DRAWN: ALD
 CHECKED: DWK
 DATE: 04/2015
 ROAD NUMBER: ---



COUNTY OF EL DORADO
 COMMUNITY DEVELOPMENT AGENCY
 TRANSPORTATION DIVISION

TAHOE HILLS ECP
 SHEET INDEX MAP AND
 EARTHWORK SUMMARY TABLE

SHEET
 iii
 3 of 19
 CONTRACT NO.
 PW 14-31075
 CIP NO.
 95171

HORIZONTAL DATUM
 BASIS OF BEARINGS FOR SURVEY CONTROL IS GRID NORTH,
 CALIFORNIA COORDINATE SYSTEM (NAD 83) ZONE 2, US SURVEY FT, 1991.35
 EPOCH, ESTABLISHED USING CONVENTIONAL MEASUREMENTS TO CONTROL POINTS
 SHOWN ON THIS SHEET. ALL DISTANCES ARE GRID DISTANCES. DIVIDE BY .999617
 TO OBTAIN GROUND DISTANCES.

VERTICAL DATUM
 ELEVATION DATUM IS BASED UPON THE NORTH AMERICAN VERTICAL
 DATUM OF 1929. TBM POINTS ARE CONTROL POINTS SHOWN ON THIS SHEET

LEGEND

LINE LABEL	(L)
CURVE LABEL	(C)
PRIMARY CONTROL	XX (A)
PROJECT CONTROL	XX (B)
SUPPLEMENTAL CONTROL	XX (C)
RIGHT OF WAY	---
LOT LINE	---
EASEMENT LINE	---
EDGE OF PAVEMENT	---
CURB AND GUTTER	---
(CT)	STATE OF CALIFORNIA DEPARTMENT OF TRANSPORTATION

NUMBER	BEG STATION	END STATION	DESCRIPTION	LENGTH	RADIUS	COURSE	DELTA	BEG NORTHING	BEG EASTING	END NORTHING	END EASTING
(L1)	3+00	4+90	LINE	190.00	----	N54°04'50"E	----	2143673.03	7095723.31	2143784.49	7095877.18

'CR' LINE
 3+00 TO 4+90 (1) SC-1

NUMBER	BEG STATION	END STATION	DESCRIPTION	LENGTH	RADIUS	COURSE	DELTA	BEG NORTHING	BEG EASTING	END NORTHING	END EASTING
(L2)	20+00	24+68.76	LINE	468.76	----	S26°33'28"E	----	2143784.49	7095877.18	2143435.19	7096086.77
(C1)	24+68.76	25+96.16	CURVE LEFT	127.39	146.00	----	49°59'38"	2143365.19	7096086.77	2143288.47	7096183.41
(L3)	25+96.16	27+00	LINE	103.84	----	S76°33'06"E	----	2143288.47	7096183.41	2143264.32	7096284.40

'LV' LINE
 20+00 TO 27+00 (2) SC-1

NUMBER	BEG STATION	END STATION	DESCRIPTION	LENGTH	RADIUS	COURSE	DELTA	BEG NORTHING	BEG EASTING	END NORTHING	END EASTING
(L4)	10+00	13+11.05	LINE	311.05	----	N56°28'11"E	----	2143246.68	7095907.92	2143418.50	7096167.22
(L5)	13+11.05	15+00	LINE	188.95	----	N54°17'40"E	----	2143418.50	7096167.22	2143528.77	7096320.65

'W' LINE
 10+00 TO 15+00 (3) SC-1

NUMBER	BEG STATION	END STATION	DESCRIPTION	LENGTH	RADIUS	COURSE	DELTA	BEG NORTHING	BEG EASTING	END NORTHING	END EASTING
(C2)	8+00	8+42.97	CURVE RIGHT	42.97	35.00	----	70°20'09"	2143465.55	7096524.08	2143489.01	7096556.87
(C3)	8+42.97	9+56.05	CURVE RIGHT	113.09	2000.00	----	3°14'23"	2143489.01	7096556.87	2143486.63	7096669.92
(C4)	9+56.05	10+76.05	CURVE RIGHT	120.00	200.00	----	34°22'39"	2143486.63	7096669.92	2143446.18	7096780.99
(C5)	10+76.05	11+76.05	CURVE RIGHT	100.00	100.00	----	57°17'45"	2143446.18	7096780.99	2143358.68	7096820.22

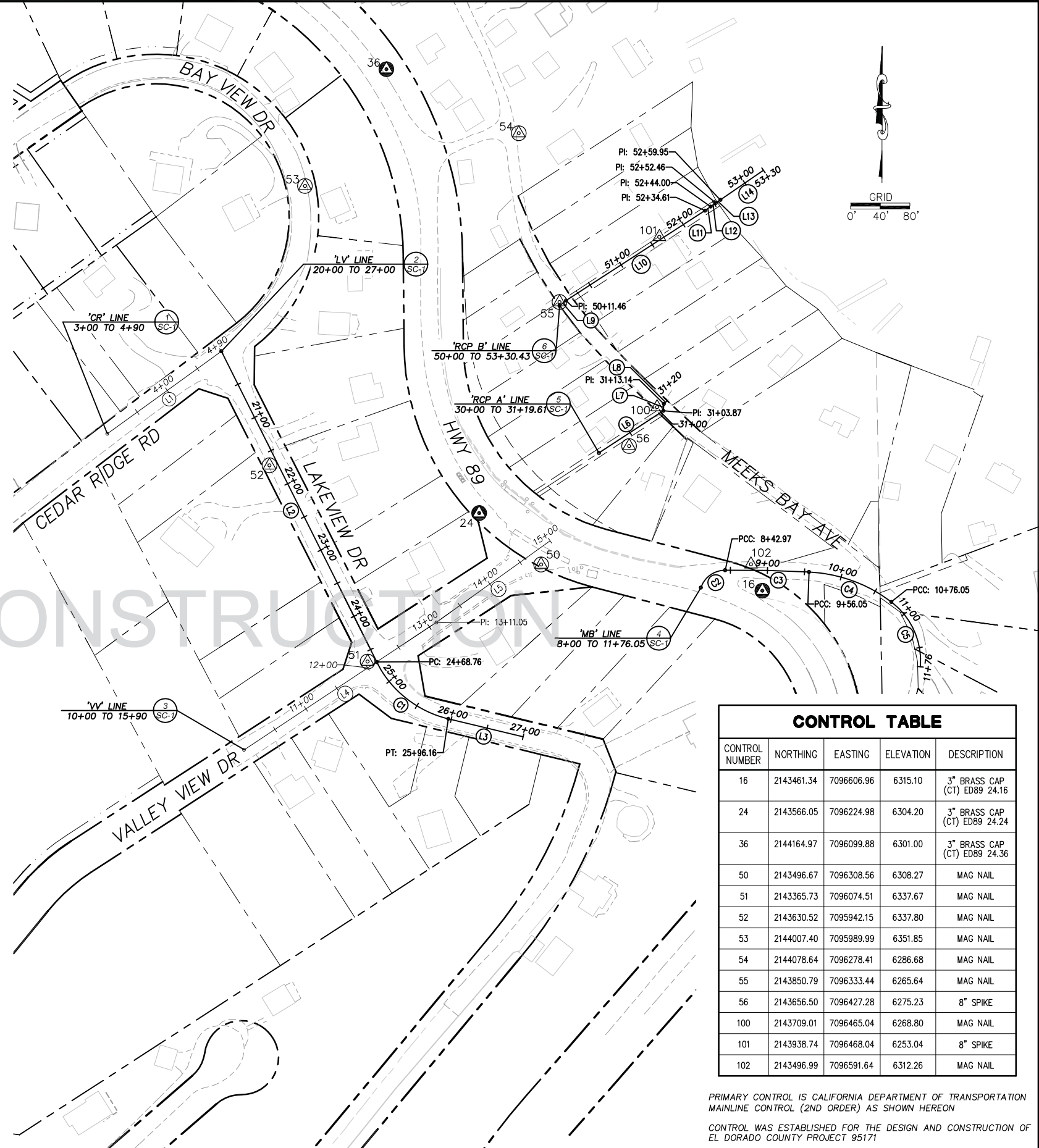
'MB' LINE
 8+00 TO 11+76.05 (4) SC-1

NUMBER	BEG STATION	END STATION	DESCRIPTION	LENGTH	RADIUS	COURSE	DELTA	BEG NORTHING	BEG EASTING	END NORTHING	END EASTING
(L6)	30+00	31+03.87	LINE	103.87	----	N56°50'31"E	----	2143647.27	7096386.55	2143704.08	7096473.51
(L7)	31+03.87	31+13.14	LINE	9.28	----	N3°22'57"E	----	2143704.08	7096473.51	2143713.34	7096474.06
(L8)	31+13.14	31+19.61	LINE	6.47	----	N48°20'14"E	----	2143713.34	7096474.06	2143717.64	7096478.89

'RCP A' LINE
 30+00 TO 31+19.61 (5) SC-1

NUMBER	BEG STATION	END STATION	DESCRIPTION	LENGTH	RADIUS	COURSE	DELTA	BEG NORTHING	BEG EASTING	END NORTHING	END EASTING
(L9)	50+00	50+11.46	LINE	11.46	----	N50°53'18"E	----	2143845.69	7096333.37	2143852.93	7096342.26
(L10)	50+11.46	52+34.61	LINE	223.15	----	N57°04'44"E	----	2143852.93	7096342.26	2143974.20	7096528.58
(L11)	52+34.61	52+44	LINE	9.39	----	N55°05'48"E	----	2143974.20	7096528.58	2143979.58	7096537.28
(L12)	52+44	52+52.46	LINE	8.46	----	N54°34'00"E	----	2143979.58	7096537.28	2143984.48	7096544.17
(L13)	52+52.46	52+59.95	LINE	7.49	----	N55°47'40"E	----	2143984.48	7096544.17	2143988.69	7096550.37
(L14)	52+59.95	53+30.43	LINE	70.48	----	N55°38'31"E	----	2143988.69	7096550.37	2144028.47	7096608.55

'RCP B' LINE
 50+00 TO 52+30.43 (6) SC-1



CONTROL TABLE

CONTROL NUMBER	NORTHING	EASTING	ELEVATION	DESCRIPTION
16	2143461.34	7096606.96	6315.10	3" BRASS CAP (CT) ED89 24.16
24	2143566.05	7096224.98	6304.20	3" BRASS CAP (CT) ED89 24.24
36	2144164.97	7096099.88	6301.00	3" BRASS CAP (CT) ED89 24.36
50	2143496.67	7096308.56	6308.27	MAG NAIL
51	2143365.73	7096074.51	6337.67	MAG NAIL
52	2143630.52	7095942.15	6337.80	MAG NAIL
53	2144007.40	7095989.99	6351.85	MAG NAIL
54	2144078.64	7096278.41	6286.68	MAG NAIL
55	2143850.79	7096333.44	6265.64	MAG NAIL
56	2143656.50	7096427.28	6275.23	8" SPIKE
100	2143709.01	7096465.04	6268.80	MAG NAIL
101	2143938.74	7096468.04	6253.04	8" SPIKE
102	2143496.99	7096591.64	6312.26	MAG NAIL

PRIMARY CONTROL IS CALIFORNIA DEPARTMENT OF TRANSPORTATION
 MAINLINE CONTROL (2ND ORDER) AS SHOWN HEREON

CONTROL WAS ESTABLISHED FOR THE DESIGN AND CONSTRUCTION OF
 EL DORADO COUNTY PROJECT 95171

DRAWING NAME: \\\cadd\el\15-0283\15-0283 ECP\15-0283 ECP SURVEY CONTROL.dwg
 LAYOUT TAB: SC-1
 APR 20 2015 11:17am
 ORIGINAL SCALE IS IN INCHES
 2
 1
 0
 FOR REDUCED PLANS

REVISION	NUMBER	DATE	DESCRIPTION	BY



PREPARED UNDER THE SUPERVISION OF:
Rob A Massimo
 PROFESSIONAL LAND SURVEYOR
 APRIL 03, 2015

DESIGNED: KIS
 CHECKED: LAM
 ROAD NUMBER: ---

DRAWN: KIS
 DATE: 04/2015



COUNTY OF EL DORADO
 COMMUNITY DEVELOPMENT AGENCY
 TRANSPORTATION DIVISION

TAHOE HILLS ECP
 SURVEY CONTROL AND
 ALIGNMENT LISTING

SHEET
 SC-1
 4 OF 19
 CONTRACT NO.
 PW 14-31075
 CIP NO.
 95171

!! WARNING !!
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NOTE:
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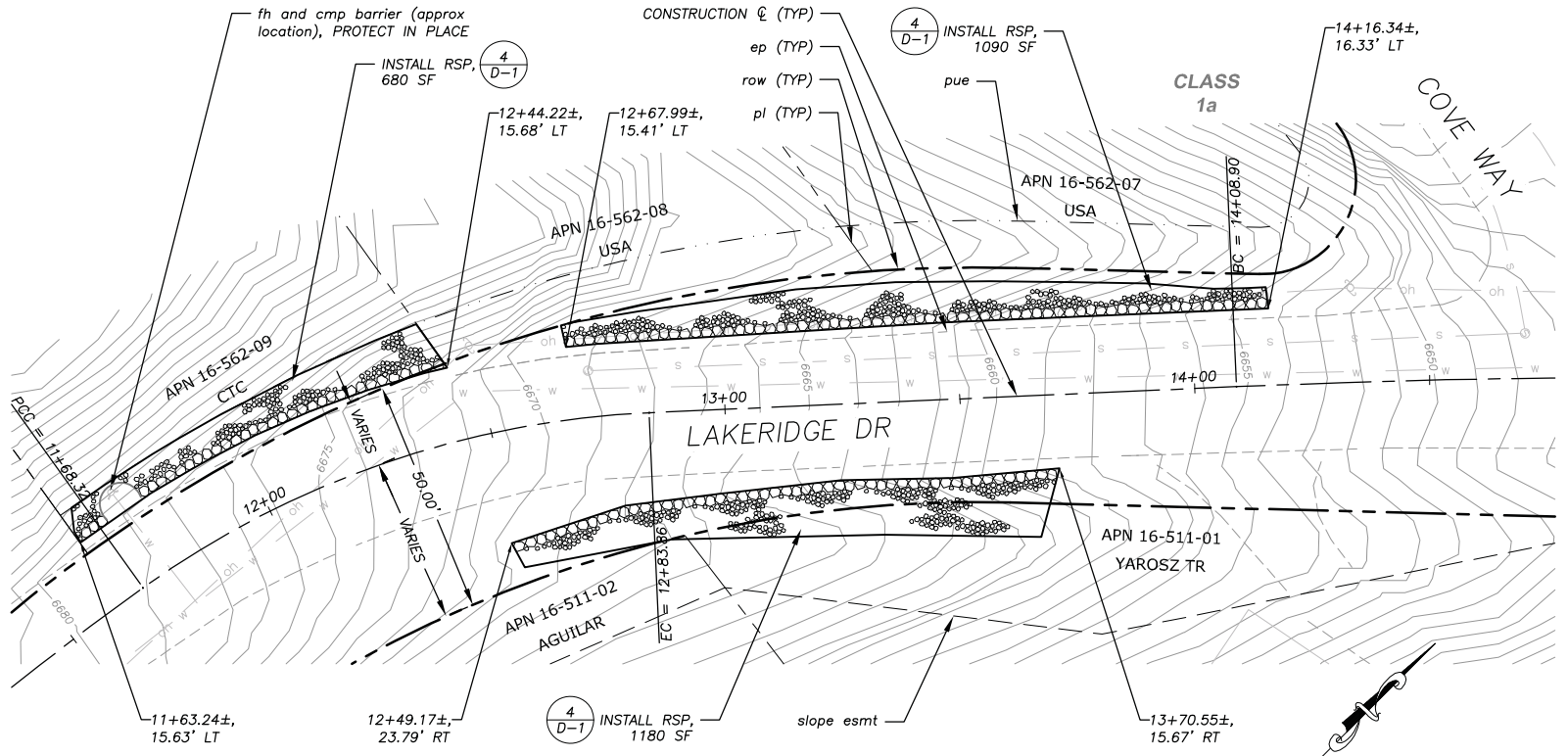
NOTES:
 RSP QUANTITIES SHOWN ARE APPROXIMATE. FINAL PAY QUANTITIES WILL BE BASED ON FIELD MEASUREMENTS.

ON SLOPES TO RECEIVE RSP, PROTECT EXISTING ESTABLISHED VEGETATION IN PLACE.

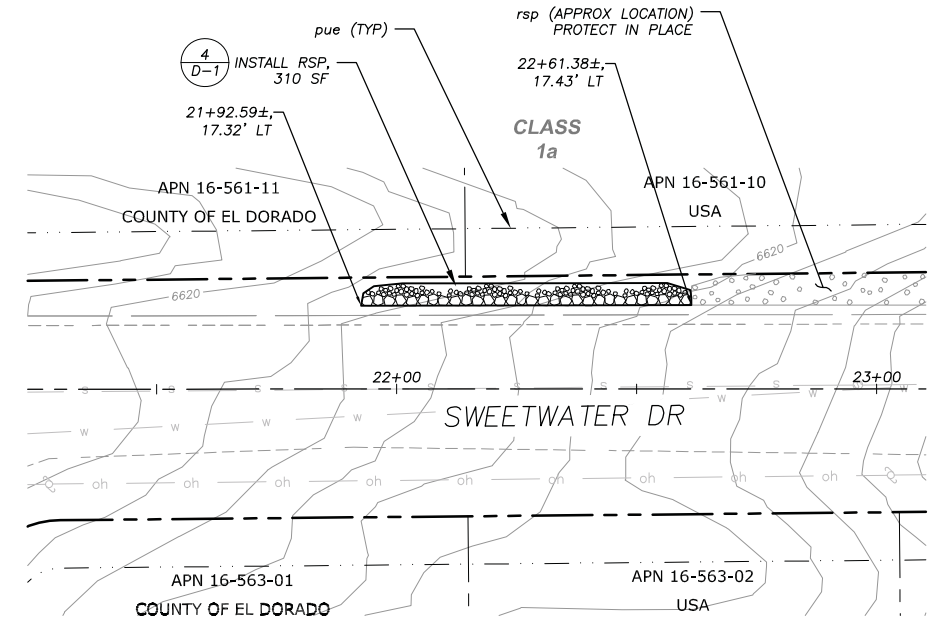
OMIT 1/4 TON ROCK AT BAY VIEW DR STA 12+40± AND IN LOCATIONS WHERE EXISTING SHOULDER IS TOO NARROW TO MAINTAIN 2 FEET (MINIMUM) FROM EP AND ROCK FACE.

IN LOCATIONS WHERE COBBLE LINES THE EXISTING ROADSIDE SWALES, PROTECT IN PLACE. WHERE COBBLE ADJACENT TO RSP HAS BEEN DISTURBED OR REMOVED, REESTABLISH COBBLE IN SWALE FLOW PATH TO THE SATISFACTION OF THE ENGINEER.

EXISTING ROCK ON SLOPES TO RECEIVE RSP THAT MEET ROCK SPECIFICATIONS WILL BE INCORPORATED INTO THE PROPOSED RSP. BOULDERS SECURELY EMBEDDED IN SLOPES TO RECEIVE RSP WILL BE PROTECTED IN PLACE AND PROPOSED RSP WILL BE PLACED AROUND THE BOULDERS. IN THESE LOCATIONS, IF THE TRM CANNOT BE KEYED INTO THE SOIL ADJACENT TO THE BOULDER, THE TRM WILL BE TRIMMED SO IT IS NOT VISIBLE ALONG THE RSP EDGE.

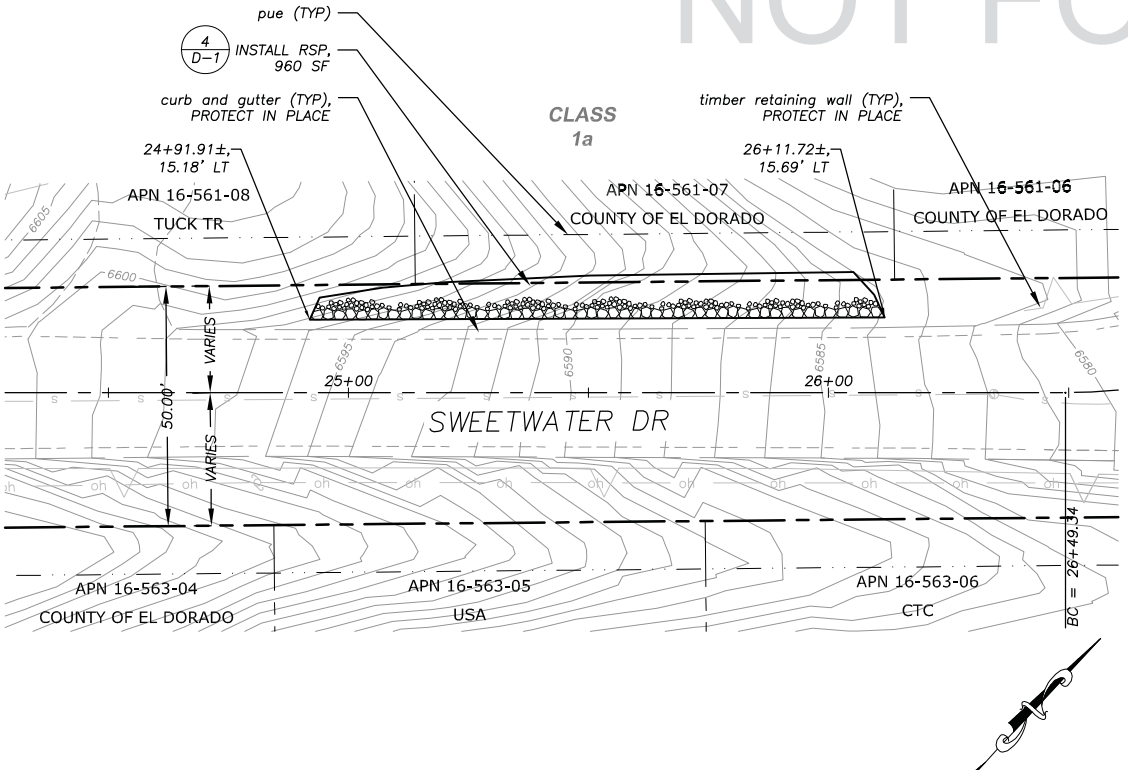


LAKERIDGE DR STA 11+60± TO STA 14+45±

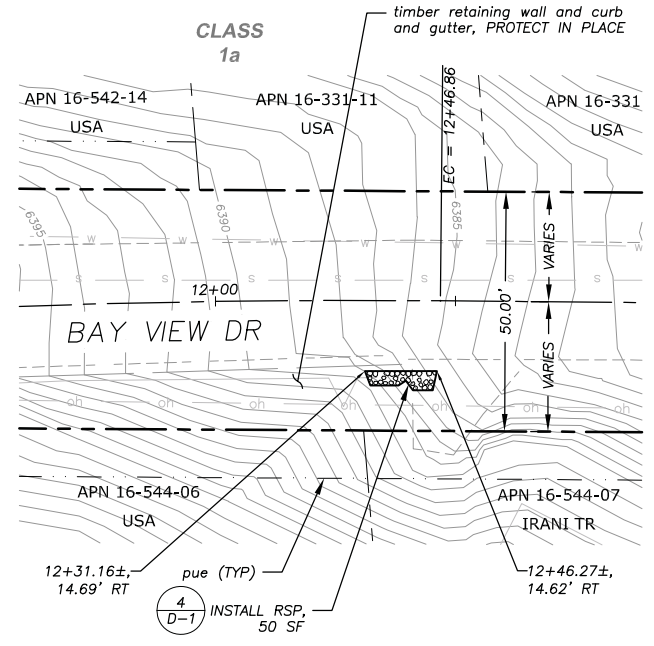


SWEETWATER DR STA 21+90± TO STA 22+60±

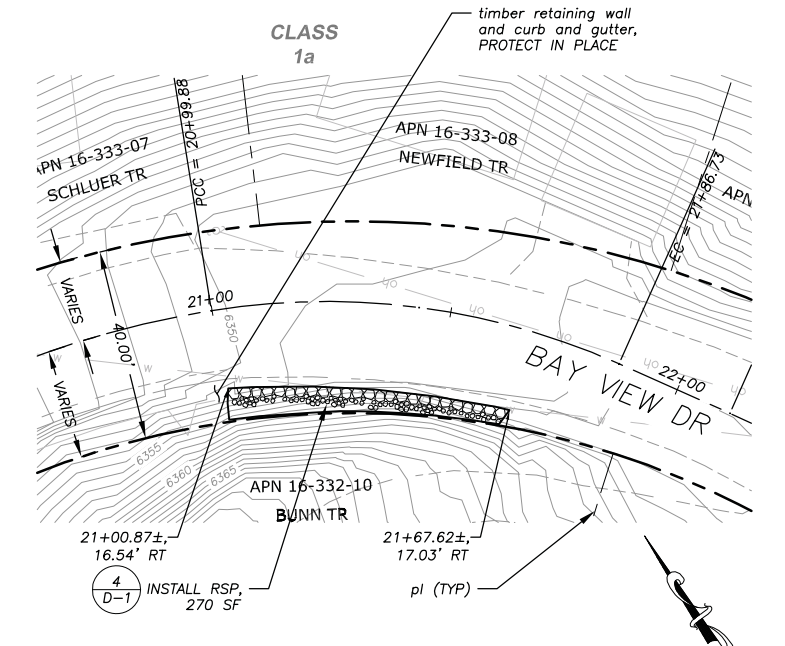
NOT FOR CONSTRUCTION



SWEETWATER DR STA 24+90± TO STA 26+20±



BAY VIEW DR STA 12+30± TO STA 12+45±



BAY VIEW DR STA 21+00± TO STA 21+65±

DRAWING NAME: \\\\COURTESY\IT-SU-Engineering\DWG_30_PROJECTS\6877\Engineering\WPA\WPA_8_14_P-1.dwg Layout: P-1 Apr 20/2015 11:14am edlin

ORIGINAL SCALE IS IN INCHES
 2
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 0
 FOR REDUCED PLANS

REVISION	NUMBER	DATE	DESCRIPTION	BY



PREPARED UNDER THE SUPERVISION OF:
 [Signature]
 REGISTERED CIVIL ENGINEER
 DATE: 04/20/15

DESIGNED: ALD
 CHECKED: DWK
 ROAD NUMBER: ---
 DRAWN: ALD
 DATE: 04/2015



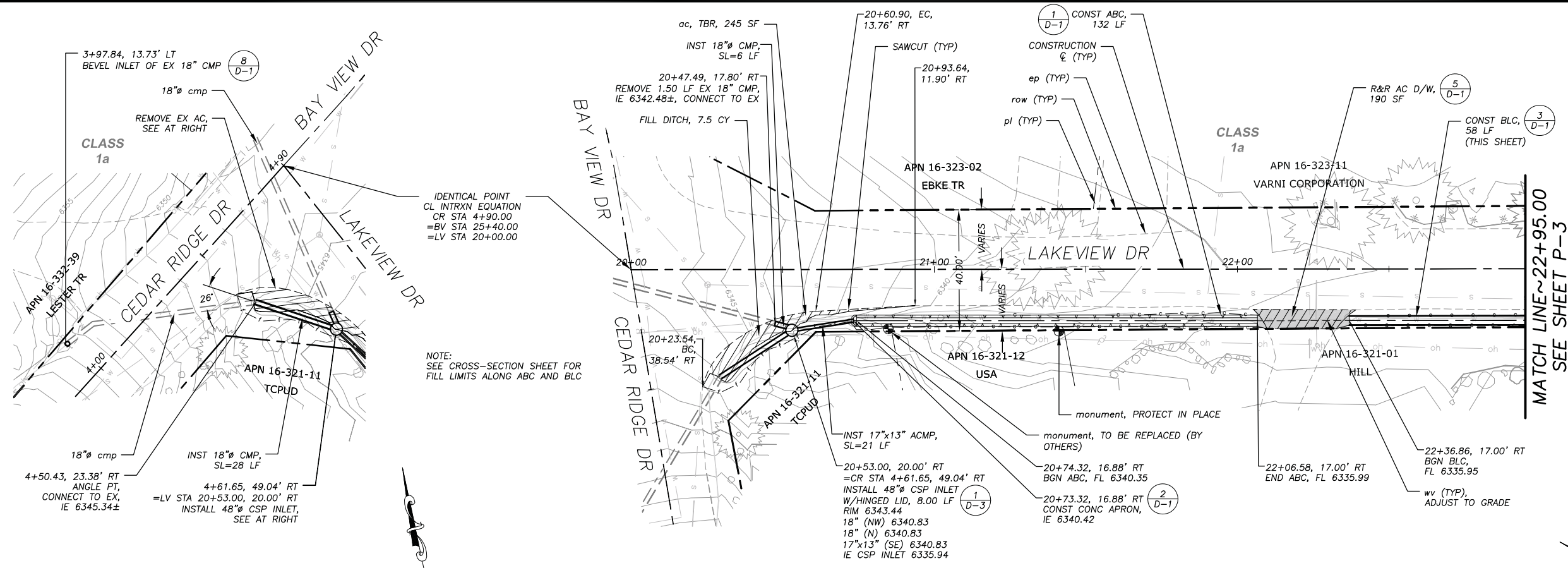
COUNTY OF EL DORADO
 COMMUNITY DEVELOPMENT AGENCY
 TRANSPORTATION DIVISION

TAHOE HILLS ECP
 LAKERIDGE DR, SWEETWATER DR, BAY VIEW DR
 PLAN VIEW

SHEET
P-1
 5 OF 19
 CONTRACT NO.
PW 14-31075
 GIP NO.
95171

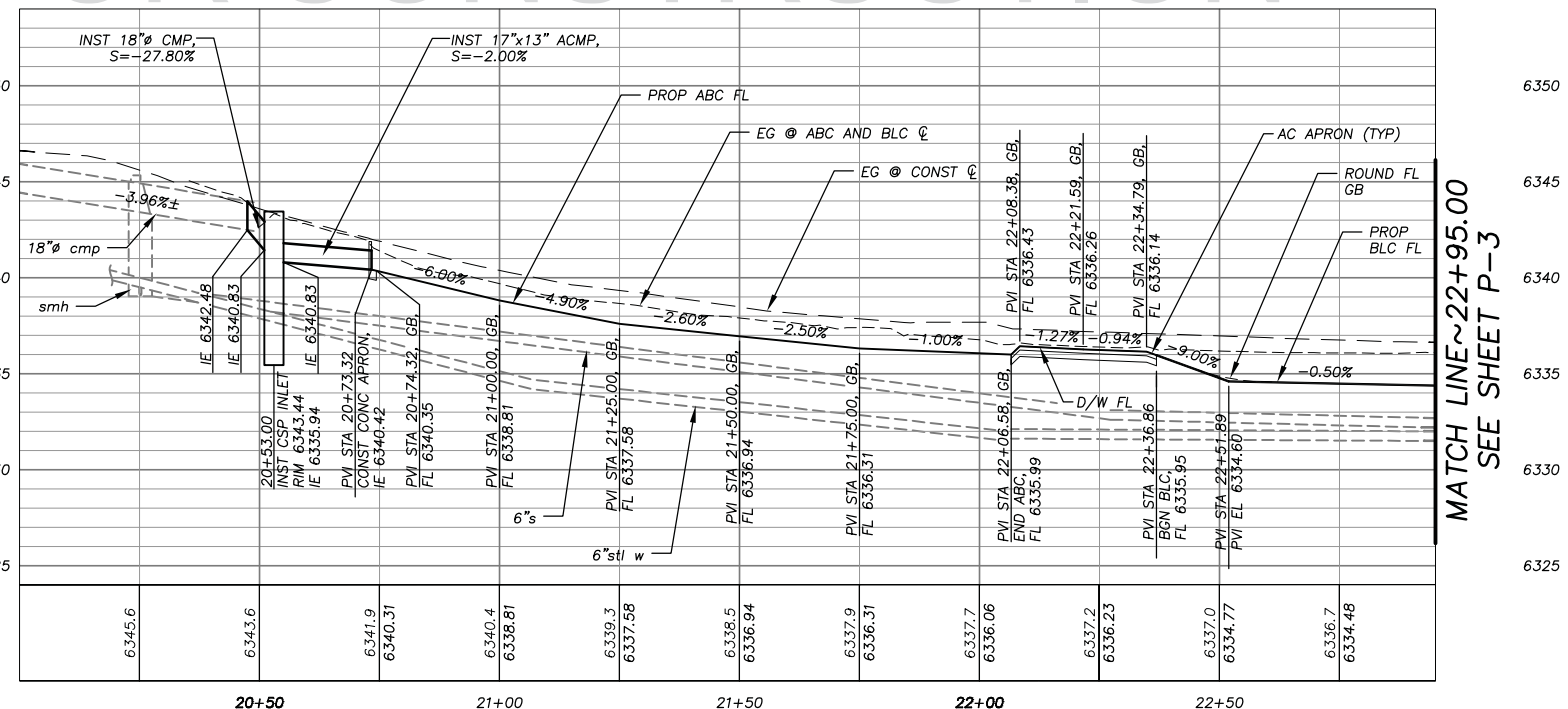
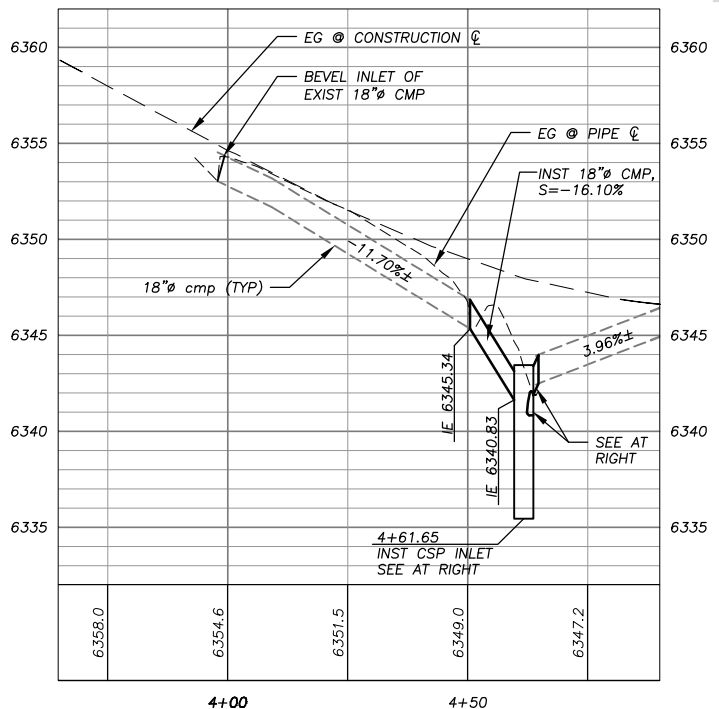
!! WARNING !!
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PLAN & PROFILE
 SCALE: HORIZ 1" = 20'
 VERT 1" = 5'

NOT FOR CONSTRUCTION



DRAWING NAME: \\\CAD\DATA\T-2-SL-Engineering\CAD_3D_PROJECTS\6571\Engineering\WPA\W-14 P-2.dwg
 LAYOUT: T-2, Apr 20/2015 - 11:11am adfian
 ORIGINAL SCALE IS IN INCHES
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 FOR REDUCED PLANS

REVISION	NUMBER	DATE	DESCRIPTION	BY



PREPARED UNDER THE SUPERVISION OF:
[Signature]
 REGISTERED CIVIL ENGINEER
 DATE: 04/20/15

DESIGNED: ALD
 DRAWN: ALD
 CHECKED: DWK
 DATE: 04/2015
 ROAD NUMBER: ---



COUNTY OF EL DORADO
COMMUNITY DEVELOPMENT AGENCY
TRANSPORTATION DIVISION

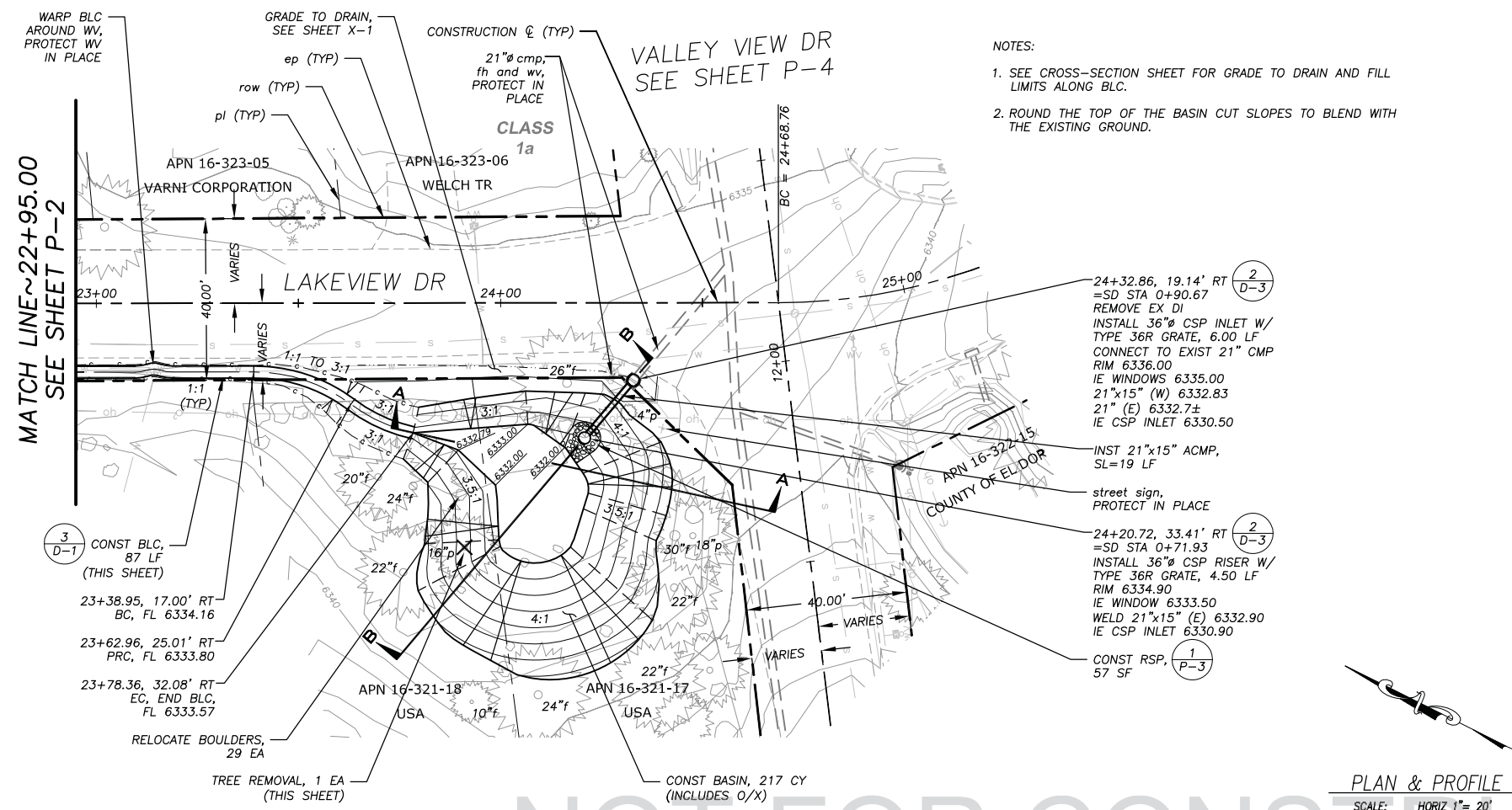
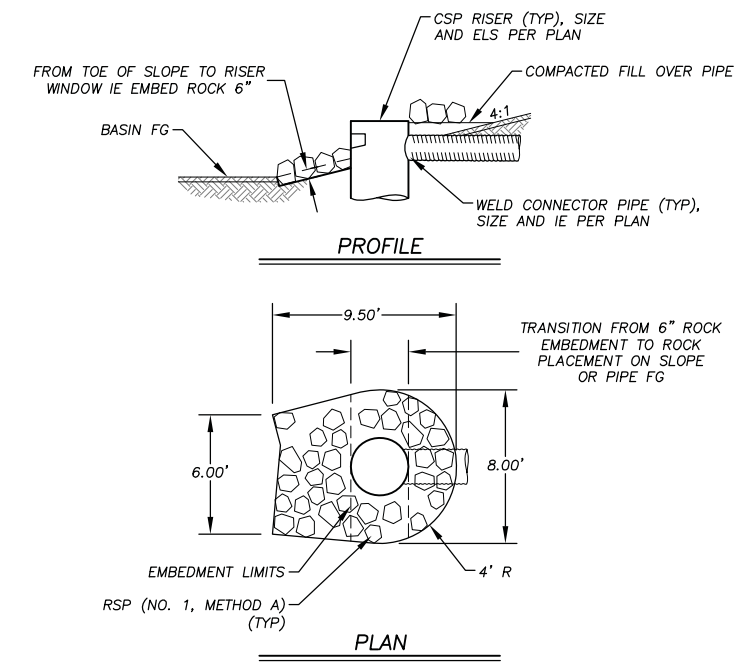
TAHOE HILLS ECP
CEDAR RIDGE DR AND LAKEVIEW DR
PLAN AND PROFILE
 STA 3+60.00 TO STA 4+90.00 AND
 STA 20+00.00 TO STA 22+95.00

SHEET **P-2**
 6 OF 19
 CONTRACT NO. **PW 14-31075**
 CIP NO. **95171**

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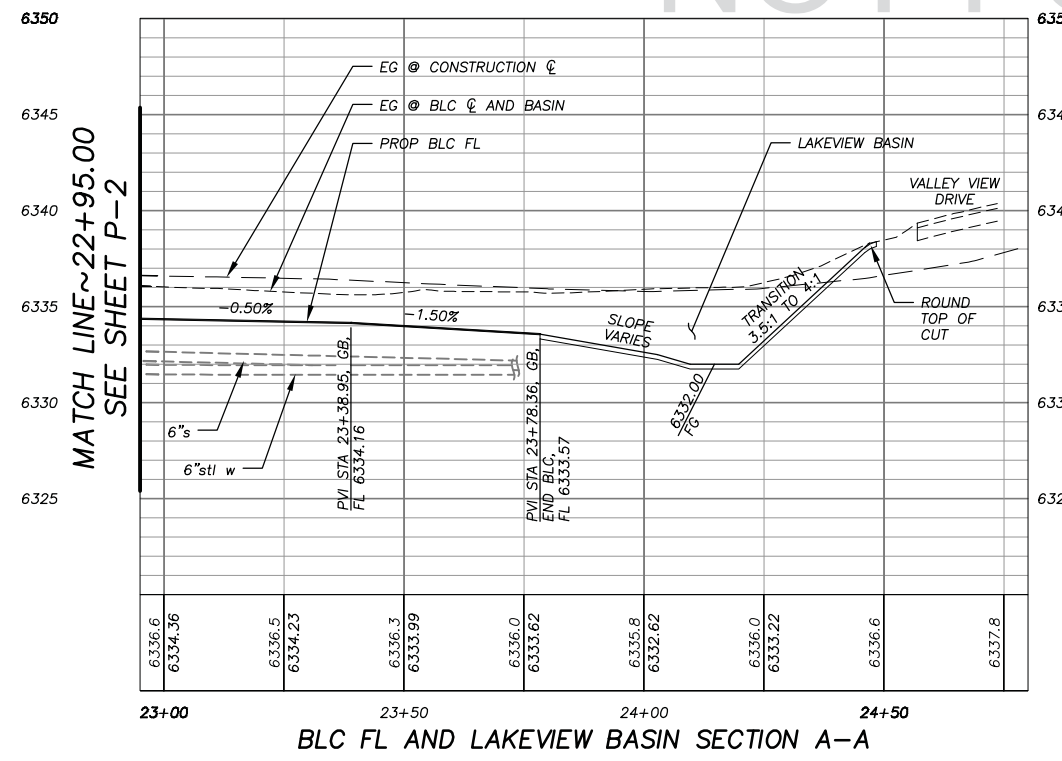
- NOTES:
- SEE CROSS-SECTION SHEET FOR GRADE TO DRAIN AND FILL LIMITS ALONG BLC.
 - ROUND THE TOP OF THE BASIN CUT SLOPES TO BLEND WITH THE EXISTING GROUND.



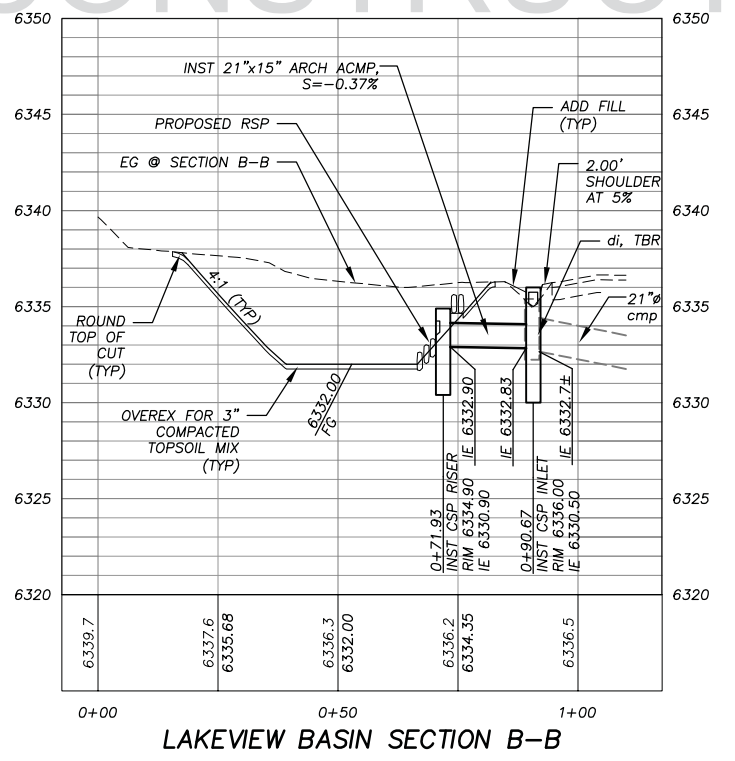
PLAN & PROFILE
 SCALE: HORIZ 1" = 20'
 VERT 1" = 5'

BASIN ROCK SLOPE PROTECTION

1
 P-3



BLC FL AND LAKEVIEW BASIN SECTION A-A



LAKEVIEW BASIN SECTION B-B

ORIGINAL SCALE IS IN INCHES
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 FOR REDUCED PLANS
 DRAWING NAME: \\C040044\IT\SL-Engineering\DWG_30_PROJECTS\6871\Engineering\WPA\WV\T1 P-3.dwg
 LAYOUT: T1: P-3
 DATE: 04/20/2015 11:07am
 USER: daffin

REVISION	NUMBER	DATE	DESCRIPTION	BY



PREPARED UNDER THE SUPERVISION OF:

 REGISTERED CIVIL ENGINEER
 DATE: 04/20/15

DESIGNED: ALD
 DRAWN: ALD
 CHECKED: DWK
 DATE: 04/20/15
 ROAD NUMBER: ---

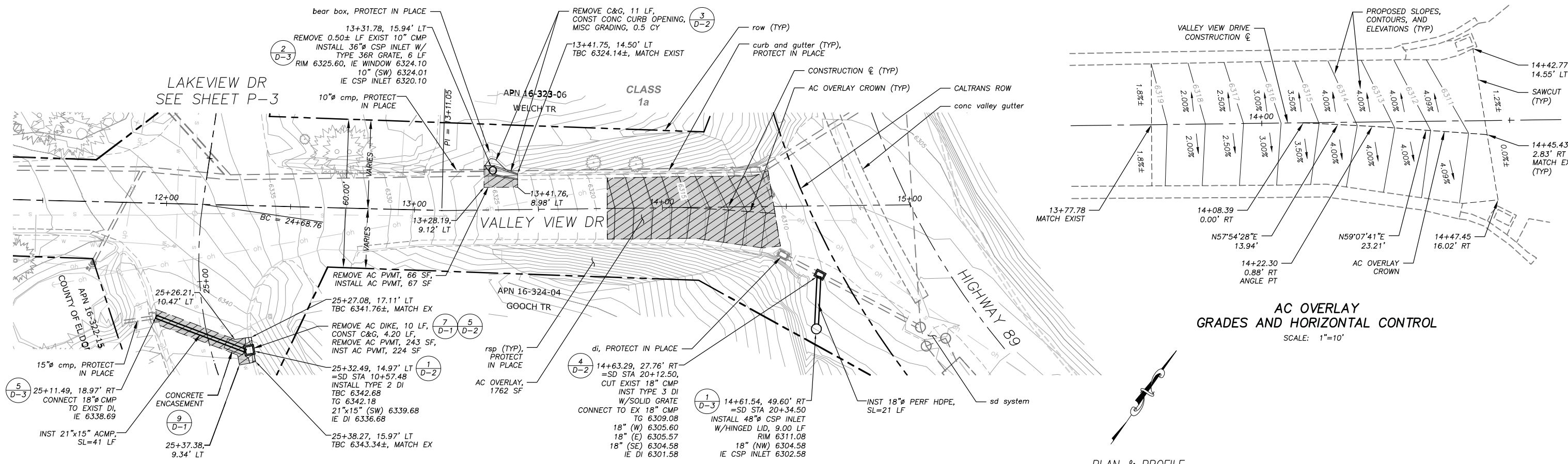


COUNTY OF EL DORADO
 COMMUNITY DEVELOPMENT AGENCY
 TRANSPORTATION DIVISION

TAHOE HILLS ECP
 LAKEVIEW DR AND LAKEVIEW BASIN
 PLAN AND PROFILE
 STA 22+95.00 TO STA 25+50.00

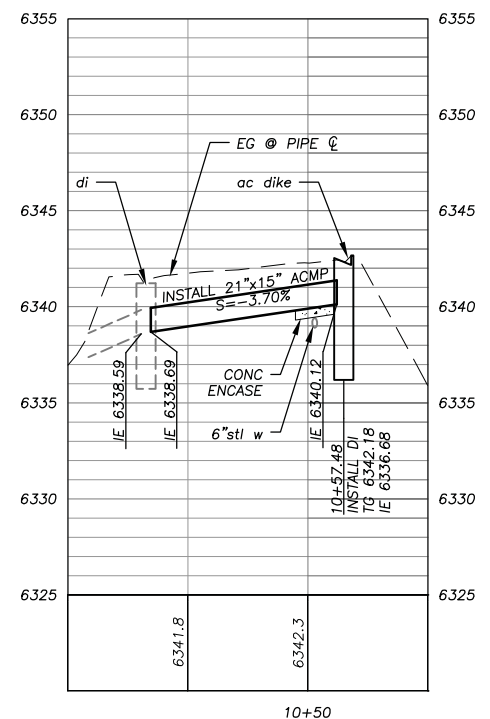
SHEET
 P-3
 7 OF 19
 CONTRACT NO.
 PW 14-31075
 CIP NO.
 95171

DRAWING NAME: \\C:\data\15-0283-C-8-15-Engineering\DWG_30_PROJECTS\9871\Engineering\WP\WP18 TH P-4.dwg
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 ORIGINAL SCALE IS IN INCHES
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 FOR REDUCED PLANS

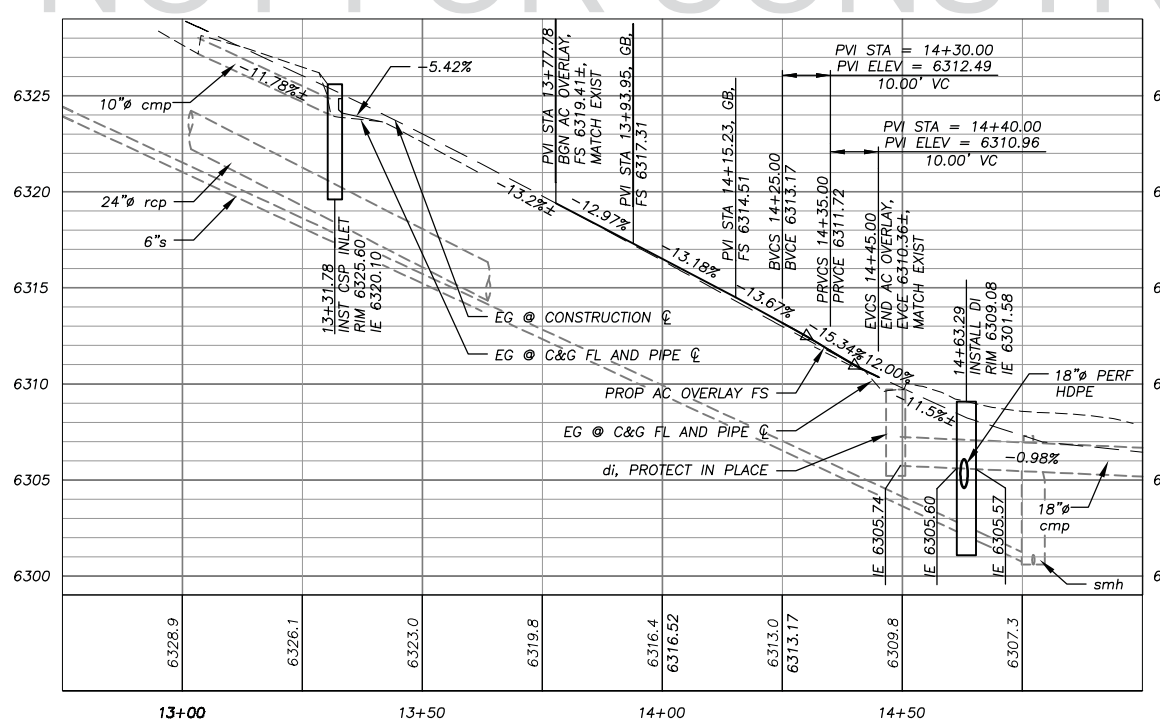


PLAN & PROFILE
 SCALE: HORIZ 1" = 20'
 VERT 1" = 5'

NOT FOR CONSTRUCTION



21"x15" ACMP @ STA 25+20±



18"Ø PERF HDPE @ STA 14+62±

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REVISION	NUMBER	DATE	DESCRIPTION	BY



PREPARED UNDER THE SUPERVISION OF:

 REGISTERED CIVIL ENGINEER
 DATE: 04/20/15

DESIGNED: ALD
 DRAWN: ALD
 CHECKED: DWK
 DATE: 04/20/15
 ROAD NUMBER: ---



COUNTY OF EL DORADO
 COMMUNITY DEVELOPMENT AGENCY
 TRANSPORTATION DIVISION

TAHOE HILLS ECP
 VALLEY VIEW DR
 PLAN AND PROFILE
 STA 11+50.00 TO STA 15+00.00

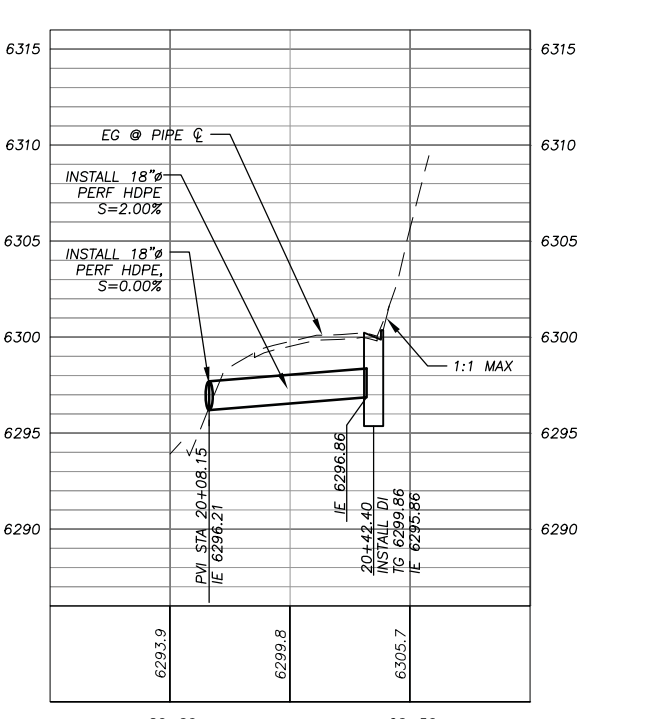
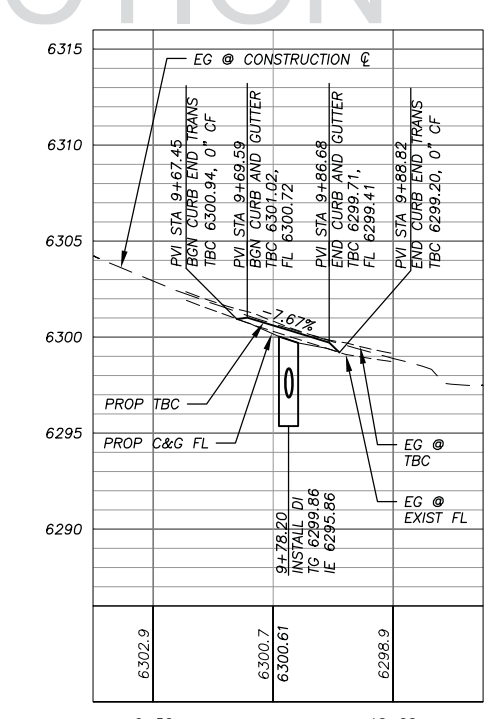
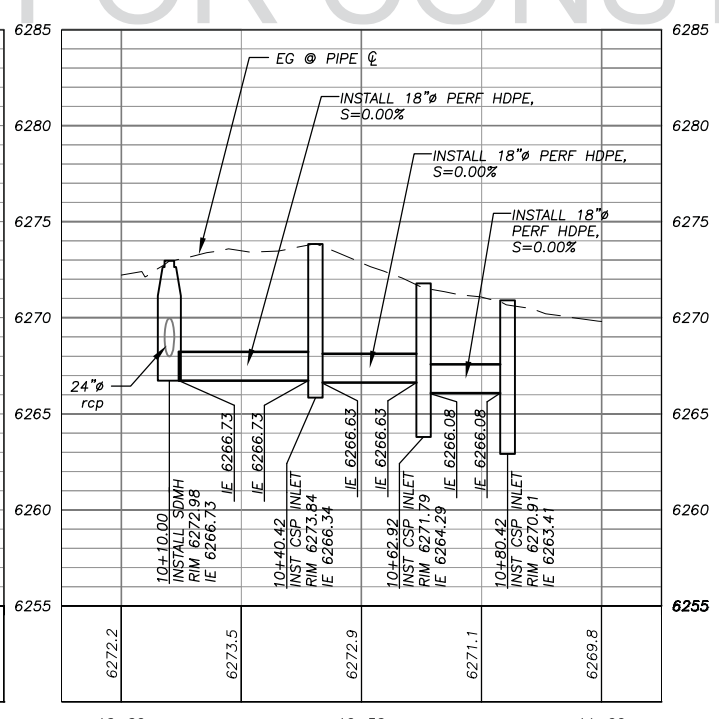
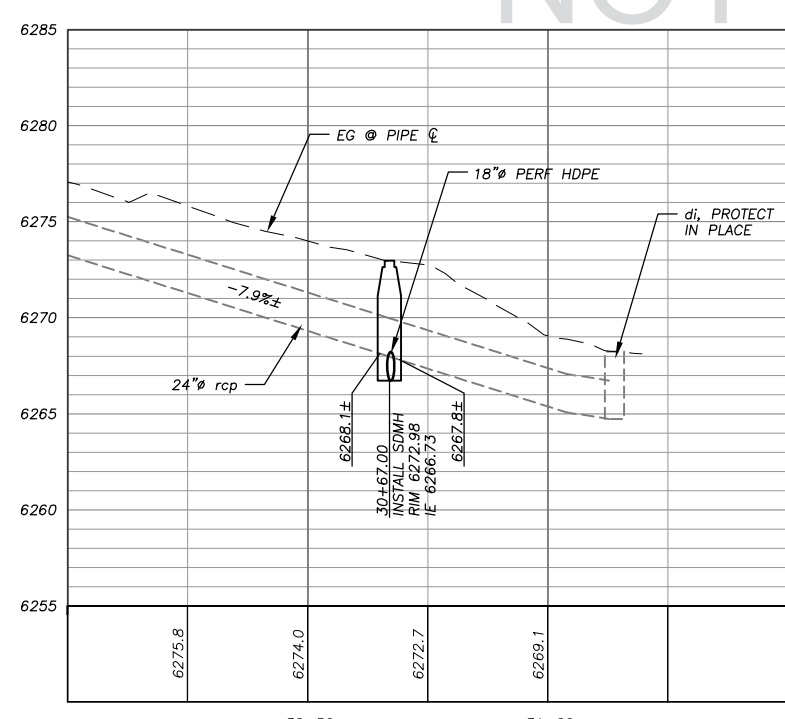
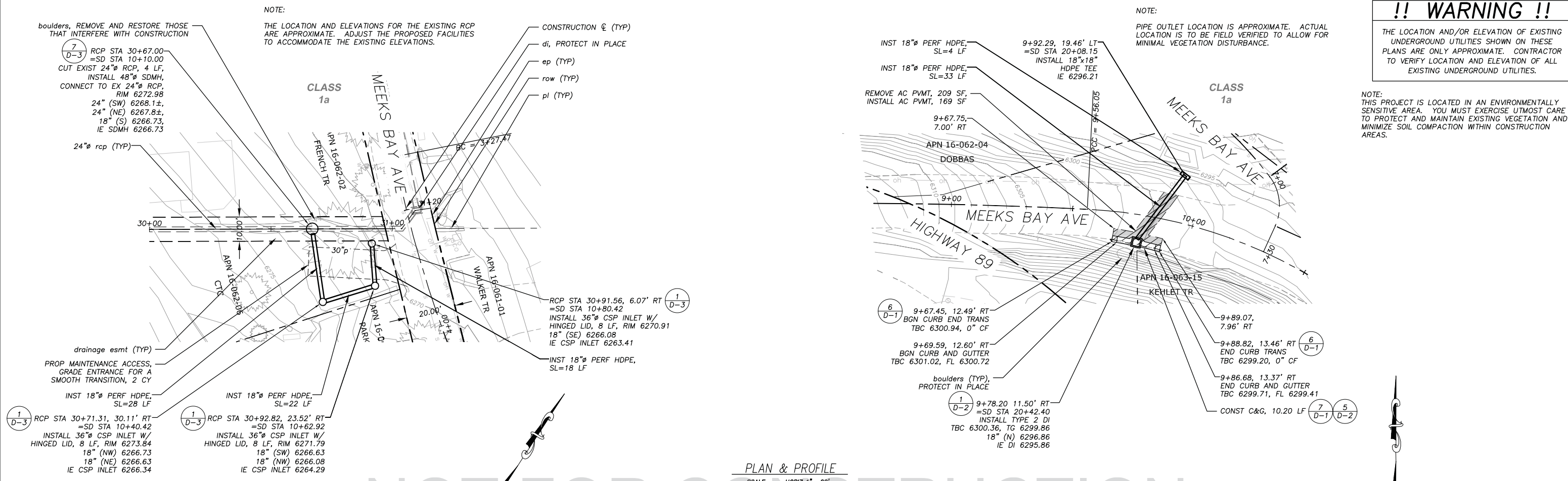
SHEET
P-4
 8 of 19
 CONTRACT NO.
PW 14-31075
 CIP NO.
95171

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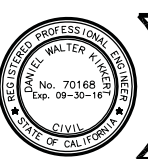
NOTE:
 PIPE OUTLET LOCATION IS APPROXIMATE. ACTUAL LOCATION IS TO BE FIELD VERIFIED TO ALLOW FOR MINIMAL VEGETATION DISTURBANCE.

NOTE:
 THE LOCATION AND ELEVATIONS FOR THE EXISTING RCP ARE APPROXIMATE. ADJUST THE PROPOSED FACILITIES TO ACCOMMODATE THE EXISTING ELEVATIONS.



DRAWING NAME: \\\CD\Projects\15-0283 C 9 of 19\15-0283 C 9 of 19.dwg
 DATE: 04/20/15
 ORIGINAL SCALE IS IN INCHES
 FOR REDUCED PLANS
 1" = 10'

REVISION	NUMBER	DATE	DESCRIPTION	BY



PREPARED UNDER THE SUPERVISION OF:
 [Signature]
 REGISTERED CIVIL ENGINEER
 DATE: 04/20/15

DESIGNED: ALD
 DRAWN: ALD
 CHECKED: DWK
 DATE: 04/20/15
 ROAD NUMBER: ---



COUNTY OF EL DORADO
 COMMUNITY DEVELOPMENT AGENCY
 TRANSPORTATION DIVISION

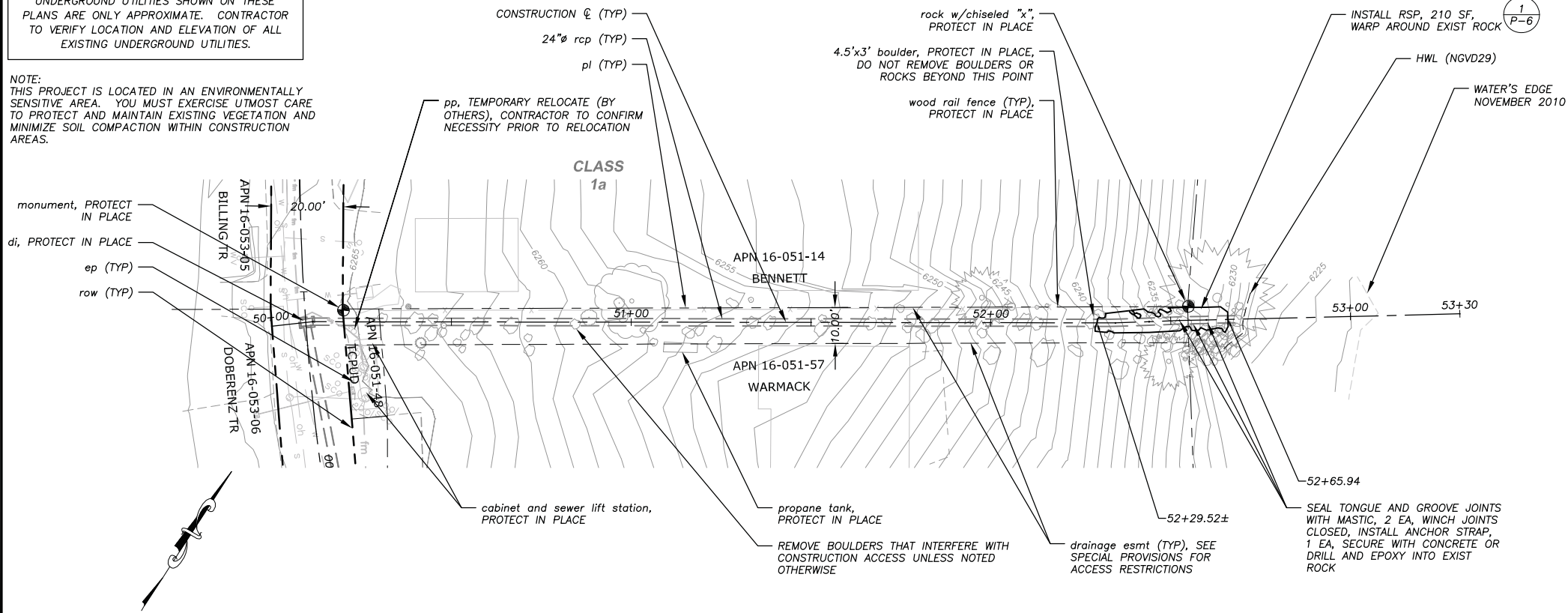
TAHOE HILLS ECP
 CTC PARCEL AND MEEKS BAY AVENUE SOUTH
 PLAN AND PROFILE
 STA 30+00.00 TO STA 31+20.00 AND
 STA 8+80.00 TO STA 10+70.00

SHEET
 P-5
 9 OF 19
 CONTRACT NO.
 PW 14-31075
 CIP NO.
 95171

!! WARNING !!

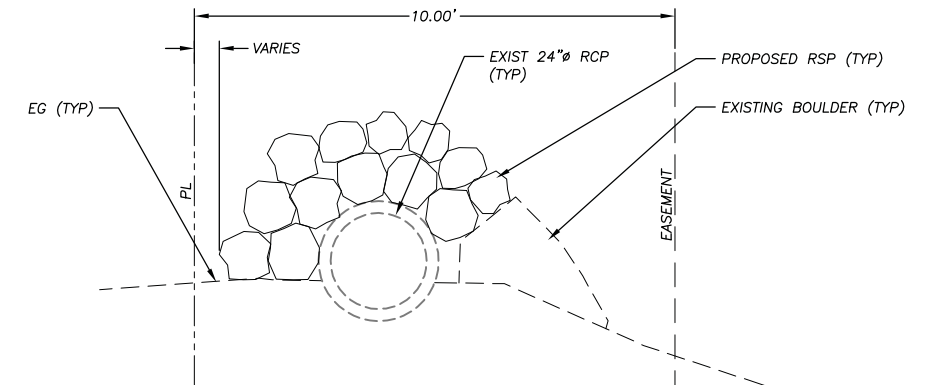
THE LOCATION AND/OR ELEVATION OF EXISTING UNDERGROUND UTILITIES SHOWN ON THESE PLANS ARE ONLY APPROXIMATE. CONTRACTOR TO VERIFY LOCATION AND ELEVATION OF ALL EXISTING UNDERGROUND UTILITIES.

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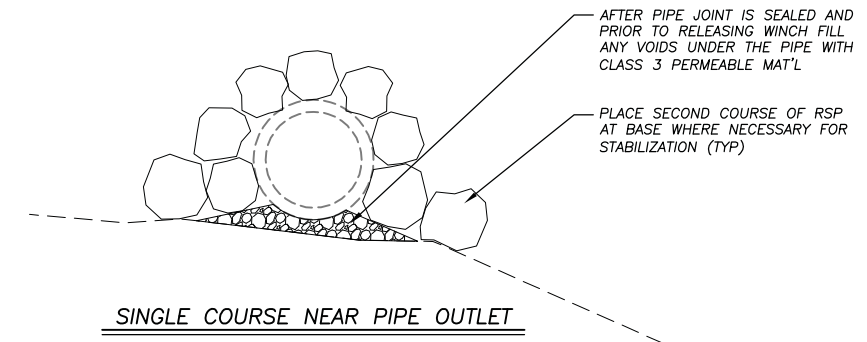


PLAN & PROFILE

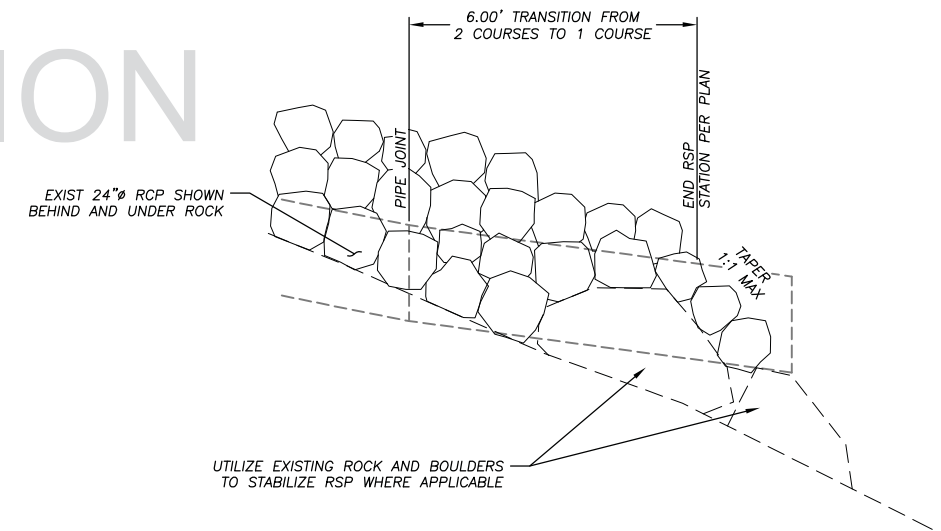
SCALE: HORIZ 1" = 20'
VERT 1" = 5'



TYPICAL OVER PIPE



SINGLE COURSE NEAR PIPE OUTLET

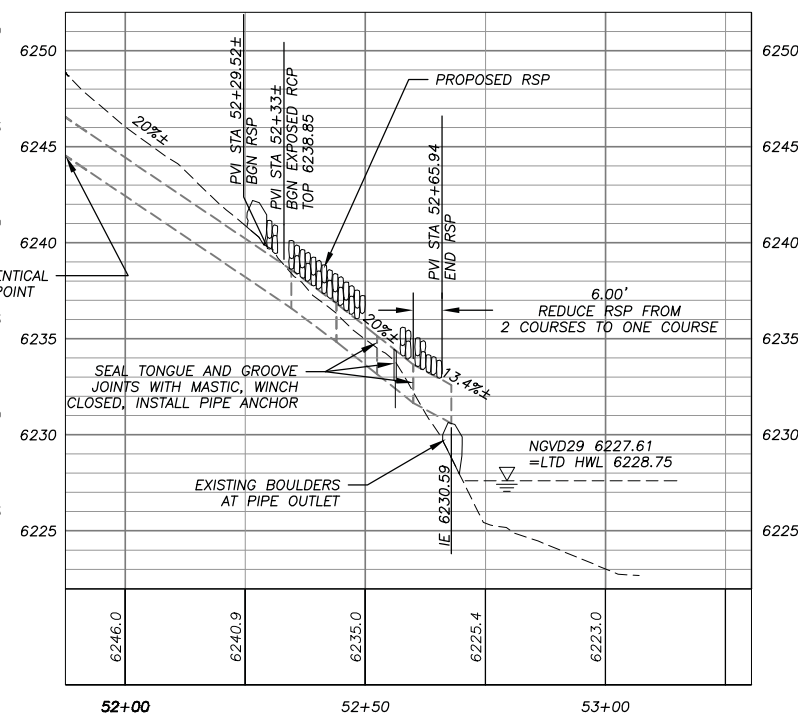
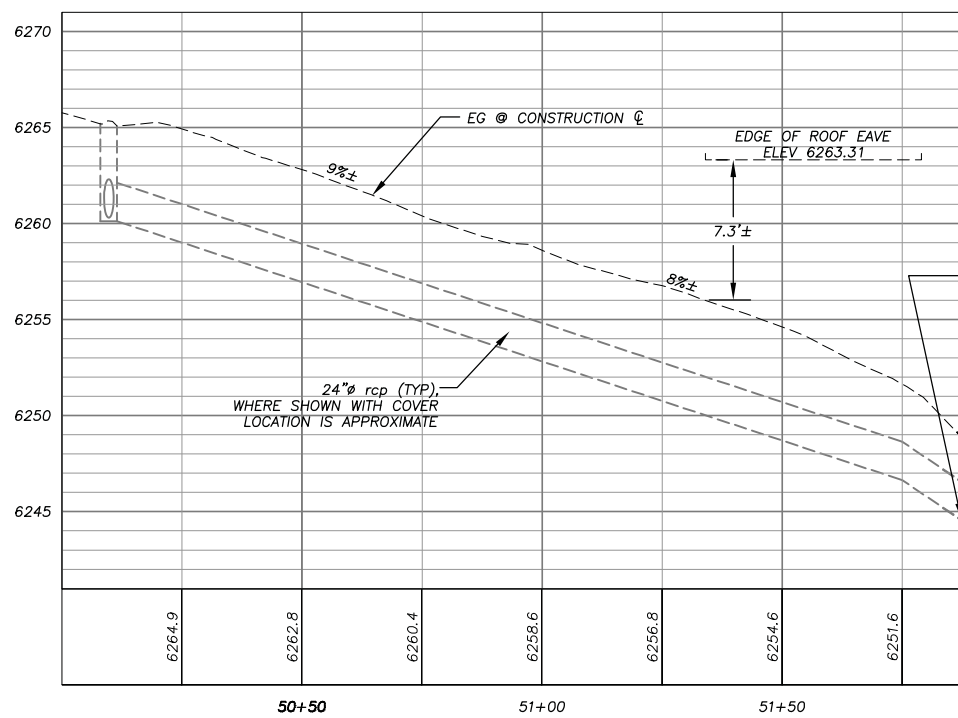


RSP AT EXISTING RCP

NTS

1
P-6

NOT FOR CONSTRUCTION



DRAWING NAME: \\\CD\Projects\16-051-57\Engineering\WP\10 TR P-6.dwg Layout Tab: P-6 Apr 20/2015 - 10:03am adrian

FOR REDUCED PLANS ORIGINAL SCALE IS IN INCHES

REVISION	NUMBER	DATE	DESCRIPTION	BY



PREPARED UNDER THE SUPERVISION OF:
[Signature]
REGISTERED CIVIL ENGINEER
DATE: 04/20/15

DESIGNED: ALD
DRAWN: ALD
CHECKED: DWK
DATE: 04/20/15
ROAD NUMBER: ---

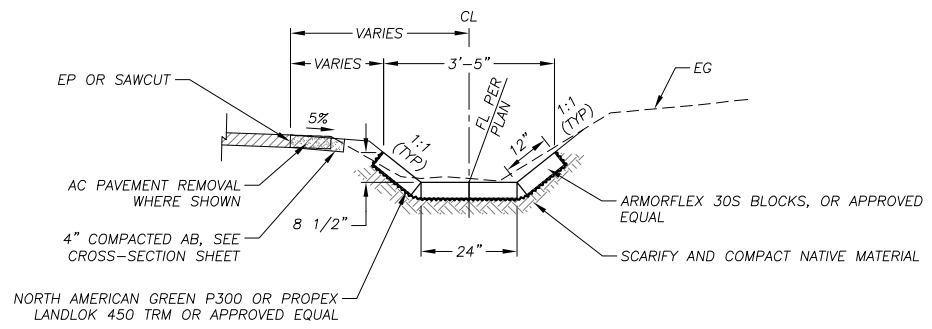


COUNTY OF EL DORADO
COMMUNITY DEVELOPMENT AGENCY
TRANSPORTATION DIVISION

TAHOE HILLS ECP
RCP STORM DRAIN OUTLET
PLAN AND PROFILE
STA 50+00.00 TO STA 53+30.00

SHEET
P-6
10 of 19
CONTRACT NO.
PW 14-31075
CIP NO.
95171

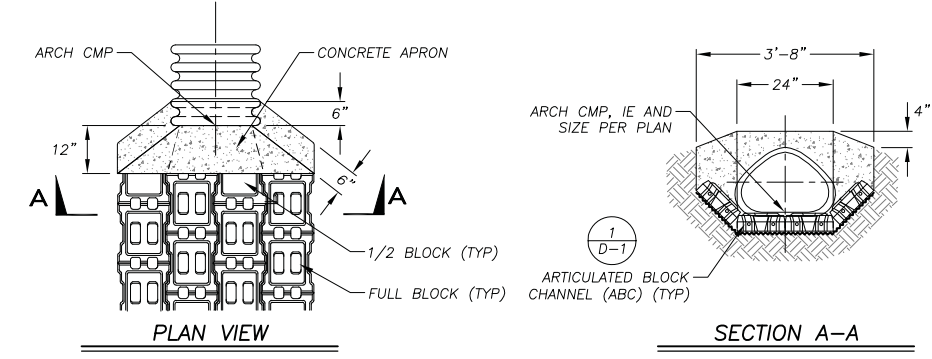
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 FOR REDUCED PLANS
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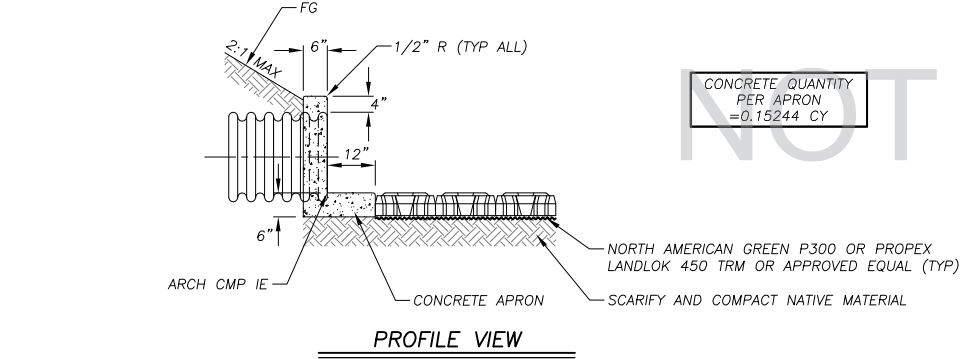
ARTICULATED BLOCK CHANNEL (ABC)

NTS

1
D-1



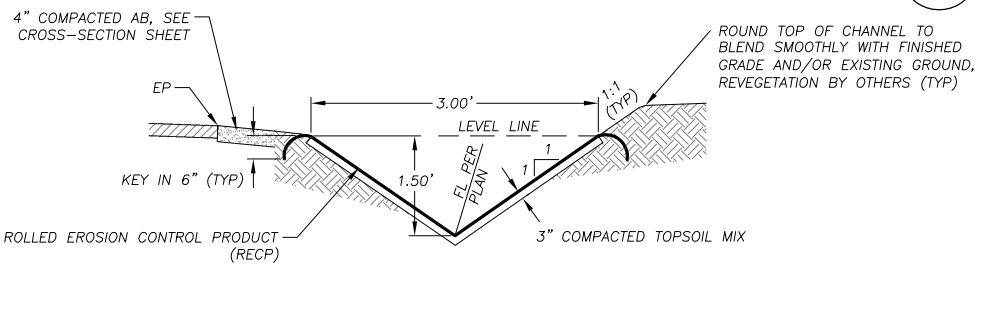
CONCRETE QUANTITY PER APRON = 0.15244 CY



CONCRETE APRON AT PIPE

NTS

2
D-1

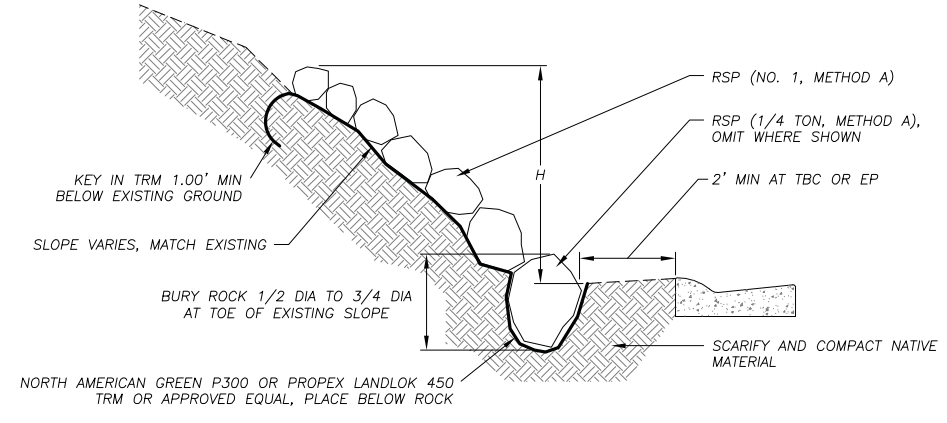


- NOTES:
- DIMENSIONS SHOWN ARE TO BE MEASURED FROM TOP OF RECP.
 - BETWEEN STATIONS 23+39 AND 23+63, CHANNEL SIDE SLOPES VARY FROM 1:1 TO 3:1.

BLANKET LINED CHANNEL (BLC)

NTS

3
D-1

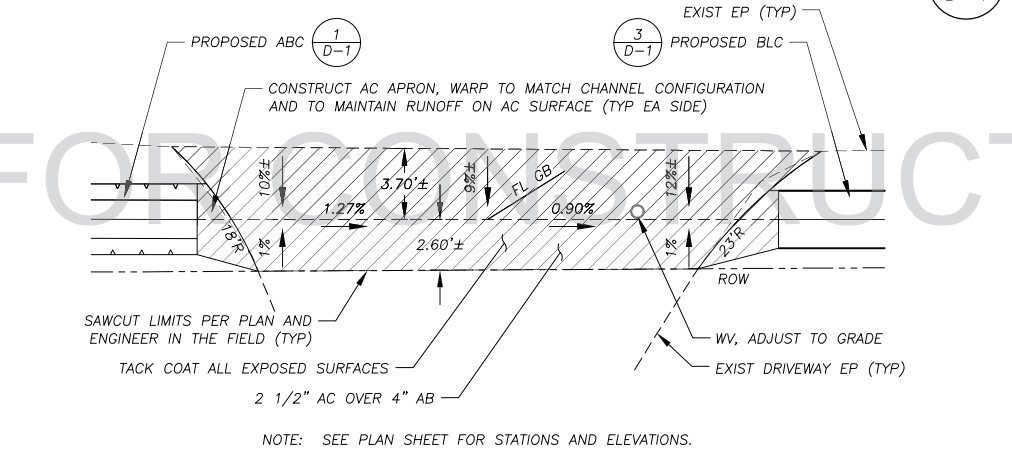


ROCK SLOPE PROTECTION

NTS

4
D-1

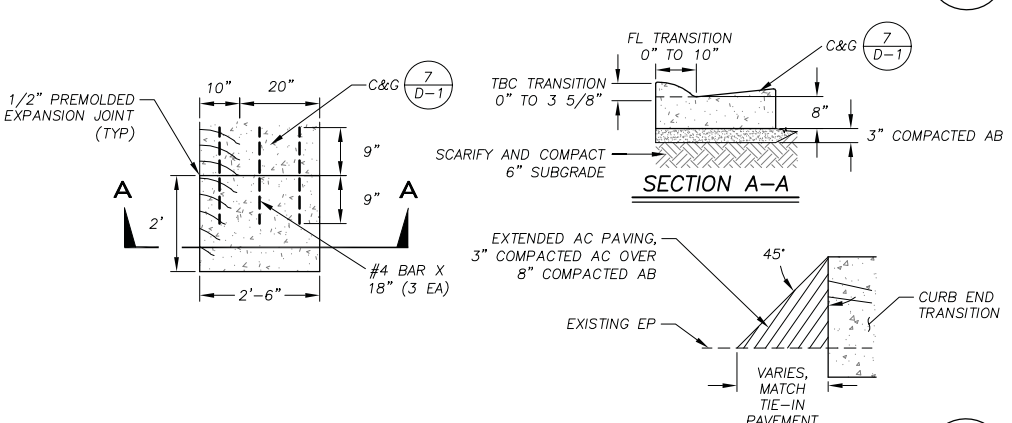
PLAN SHEET	STREET AND STATIONING	AVERAGE HEIGHT, H	SLOPE RATIO, R
P-1	LAKERIDGE DR LT 11+63.24 TO 12+44.22	5'±	2:1±
P-1	LAKERIDGE DR LT 12+67.99 TO 14+16.34	3'±	3:1±
P-1	LAKERIDGE DR RT 12+49.17 TO 13+70.55	2.5'±	4:1±
P-1	SWEETWATER DR 21+92.59 TO 22+61.38	1.5'±	3:1±
P-1	SWEETWATER DR 24+91.91 TO 26+11.72	2'±	3:1±
P-1	BAY VIEW DR 12+31.16 TO 12+46.27	1'±	2:1±
P-1	BAY VIEW DR 21+00.87 TO 21+67.62	5'±	1:1±



R&R AC DRIVEWAY

NTS

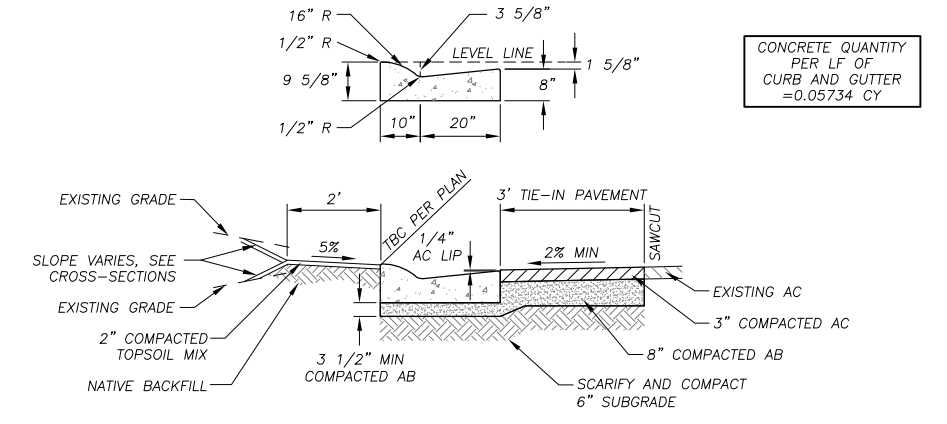
5
D-1



CURB END TRANSITION

NTS

6
D-1

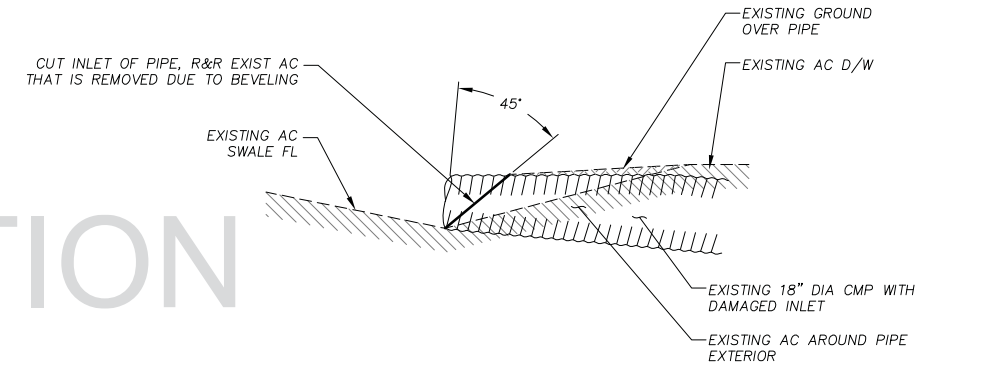


ROLLED CURB AND GUTTER

NTS

7
D-1

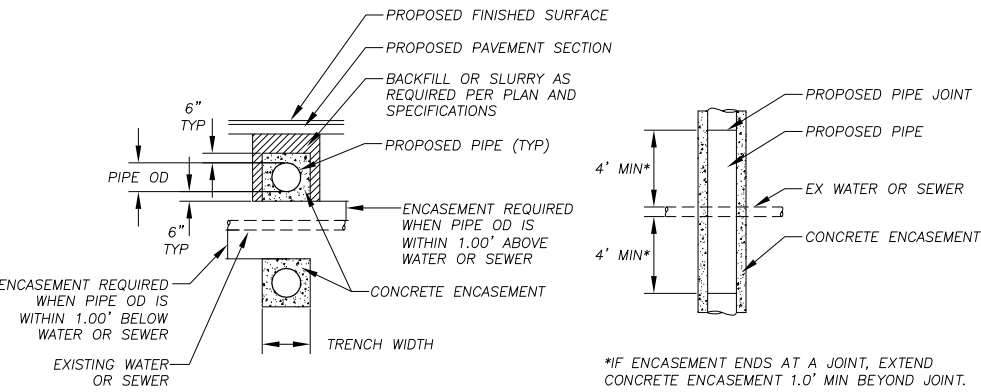
NOTE:
WHERE R&R CURB: DRILL, DOWEL, AND EPOXY 3-#4 x 18" BARS INTO EXISTING CURB AND GUTTER, SEE CURB END TRANSITION DETAIL.



PIPE BEVEL

NTS

8
D-1



CONCRETE ENCASEMENT

NTS

9
D-1

REVISION	NUMBER	DATE	DESCRIPTION	BY



PREPARED UNDER THE SUPERVISION OF:
 [Signature]
 REGISTERED CIVIL ENGINEER
 DATE: 04/20/15

DESIGNED: ALD
 DRAWN: ALD
 CHECKED: DWK
 DATE: 04/2015
 ROAD NUMBER: ---

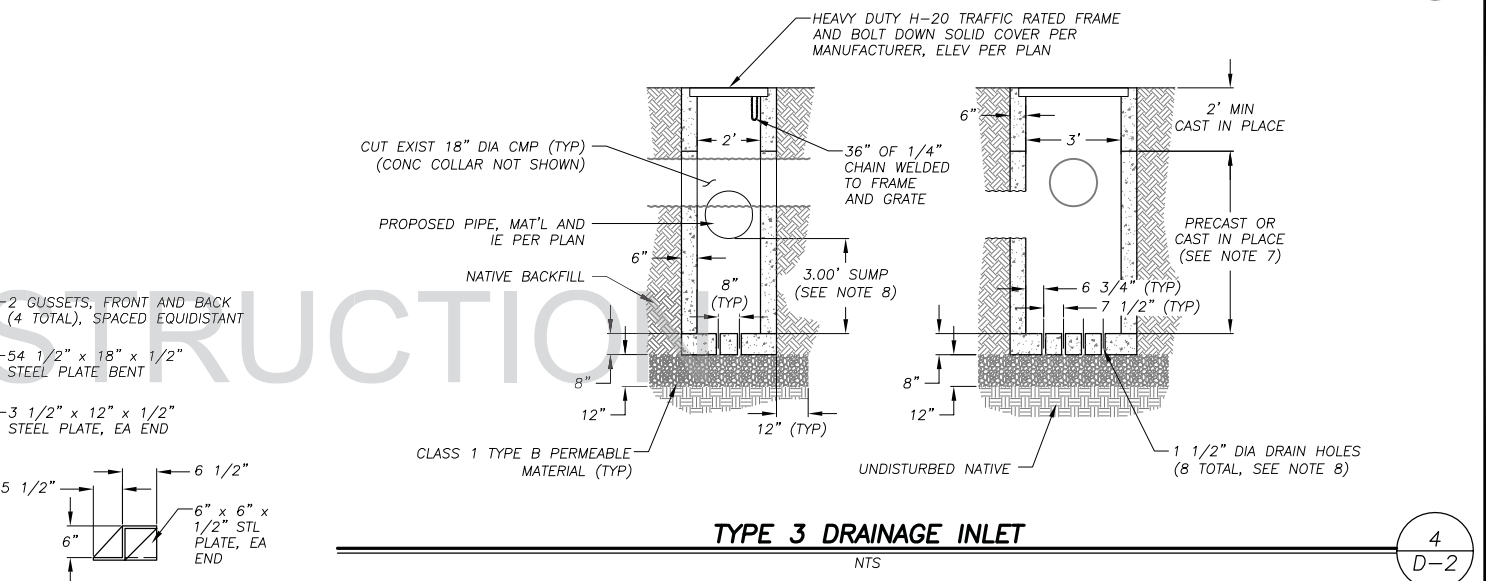
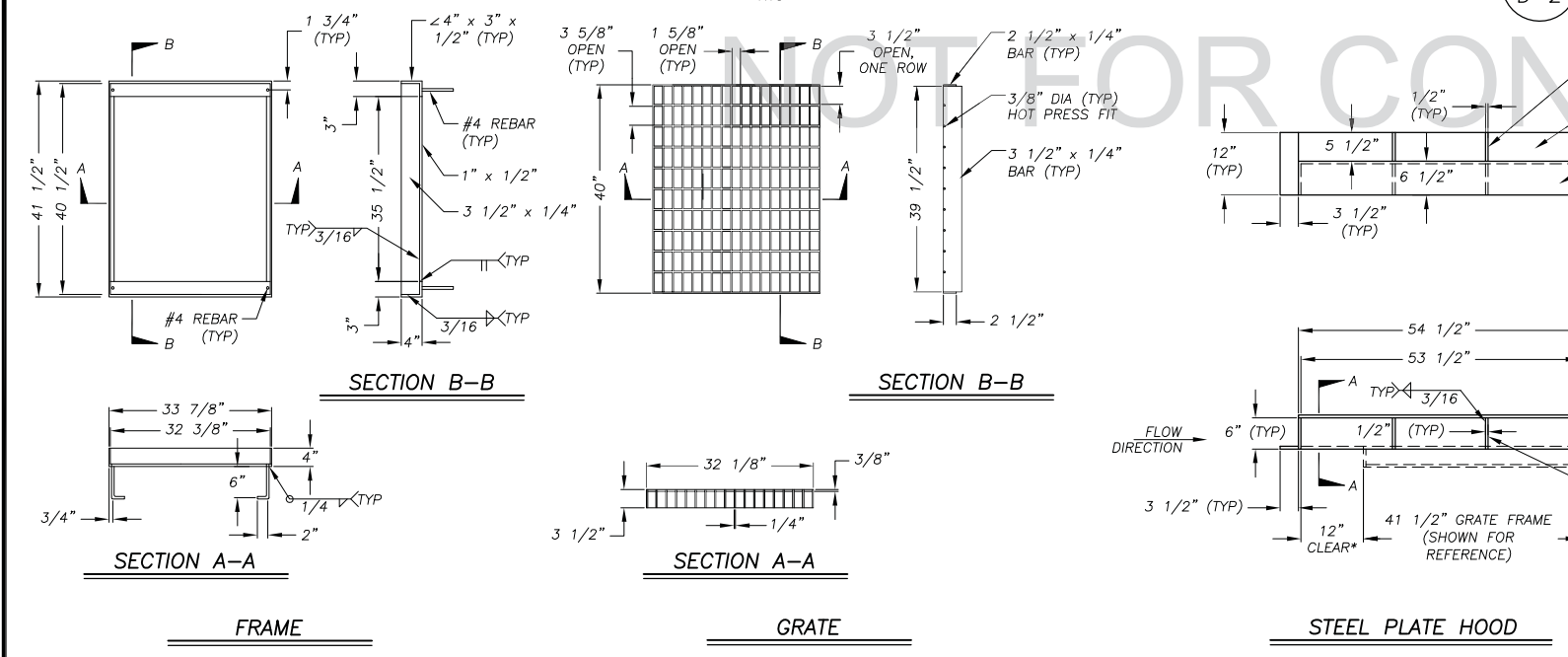
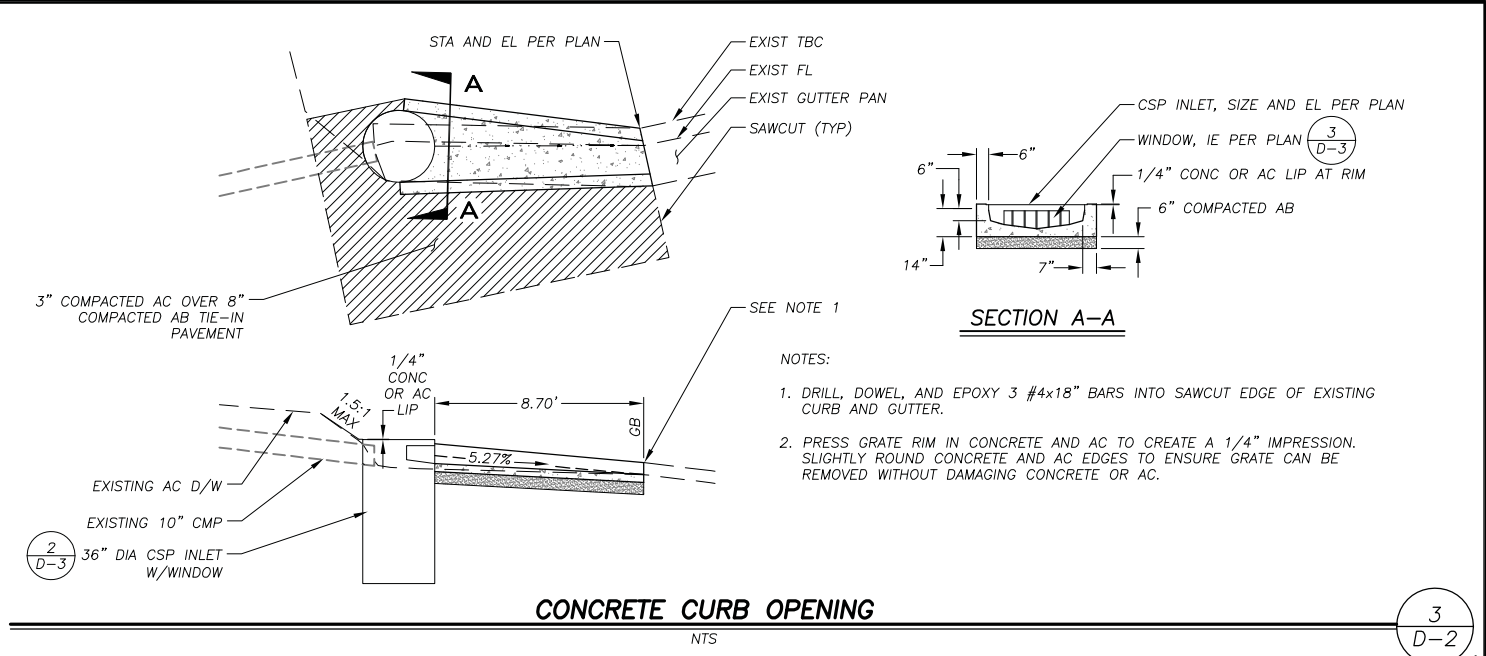
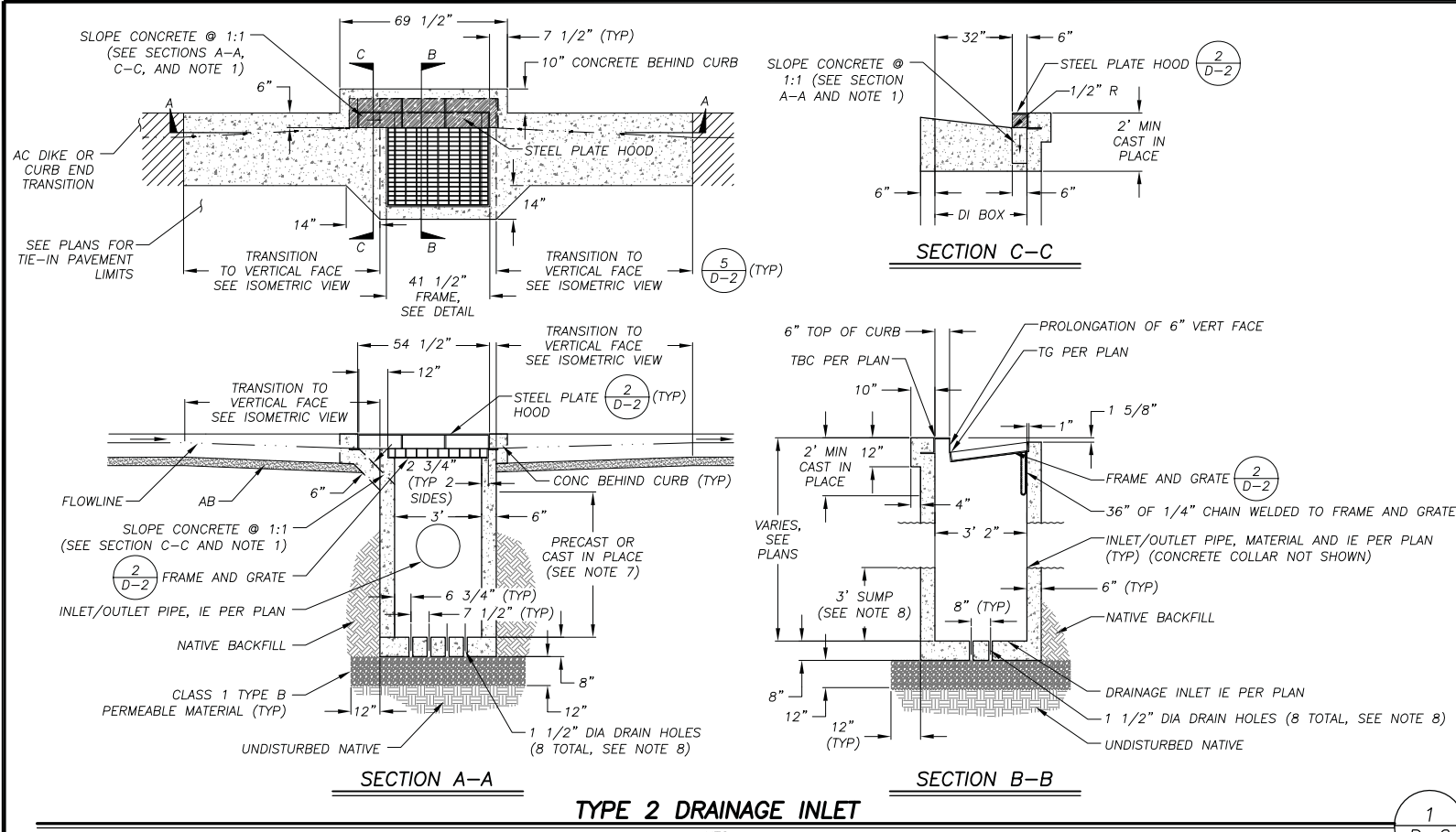


COUNTY OF EL DORADO
 COMMUNITY DEVELOPMENT AGENCY
 TRANSPORTATION DIVISION

TAHOE HILLS ECP
 DETAIL SHEET

SHEET
 D-1
 11 OF 19
 CONTRACT NO.
 PW 14-31075
 CIP NO.
 95171

DRAWING NUMBER: \CD\Bdata\3D\T-Engineering\CVTL 3D PROJECTS\95171\Engineering\WPL\AN11.13 TH D-1 D-2.dwg
 ORIGINAL SCALE IS IN INCHES
 FOR REDUCED PLANS



DRAINAGE INLET NOTES:

- THE 1:1 SLOPED CONCRETE SECTION IS TO BE POSITIONED ON THE UPSLOPE SIDE OF THE DRAINAGE INLET.
- DEPRESS GUTTER FLOWLINE FROM EXISTING TO 6", AS MEASURED FROM TBC, PER DI CURB TRANSITION DETAIL.
- FLOOR OF THE DRAINAGE INLET WILL BE PLACED PRIOR TO OR AT THE SAME TIME AS THE SIDE WALLS, OR TIED WITH REBAR.
- FRAME AND GRATE WILL CONFORM TO THE FRAME AND GRATE DETAIL ON THE PLANS OR BE PRE-MANUFACTURED BY A FOUNDRY WITH SIMILAR DIMENSIONS.
- DRAINAGE INLET HOOD WILL BE 1/2" MINIMUM THICKNESS STEEL PLATE PAINTED BLACK.
- WALL REINFORCING (NOT SHOWN) WILL BE #4 BARS @ 18" OC EACH WAY, PLACED 1 1/2" CLEAR FROM INSIDE OF BOX. INLET BOTTOM REINFORCING NOT REQUIRED EXCEPT AS NOTED IN NOTE 3, ABOVE.
- A PRECAST UNIT WITH CAST-IN-PLACE TOP SECTION TO RECEIVE GRATE, FRAME AND HOOD IS AN ACCEPTABLE ALTERNATIVE TO CAST-IN-PLACE UNITS. DRAINAGE INLETS THAT ARE ENTIRELY PRECAST ARE NOT ACCEPTABLE. CAST-IN-PLACE TOP SECTIONS WILL BE DOWEL INTO THE CURB AND GUTTER WITH 3-#4 BARS, 18" LONG, ON EACH SIDE OF DRAINAGE INLET.
- WHEN DIRECTED BY ENGINEER, DRAINAGE INLET IE WILL EQUAL IE OF OUTLET PIPE. YOU ARE TO SLOPE THE DRAINAGE INLET FLOOR TO DRAIN AND OMIT HOLES.

DI CURB TRANSITION

EXPANSION JOINT IF CONSTRUCTED AS A COLD JOINT, AGAINST AC DIKE, OR AGAINST CURB END TRANSITION; PLACE 3 #4 x 24" BARS (TYP)

NOTES:

- WHERE R&R CURB: DRILL, DOWEL, AND EPOXY 3-#4 x 18" BARS INTO EXISTING CURB AND GUTTER.
- SEE DRAINAGE INLET DETAIL FOR DIMENSIONS OF CONCRETE AROUND GRATE AND FRAME.

REVISION	NUMBER	DATE	DESCRIPTION	BY



PREPARED UNDER THE SUPERVISION OF:

 REGISTERED CIVIL ENGINEER
 DATE: 04/20/15

DESIGNED: ALD
 DRAWN: ALD
 CHECKED: DWK
 DATE: 04/2015
 ROAD NUMBER: ---

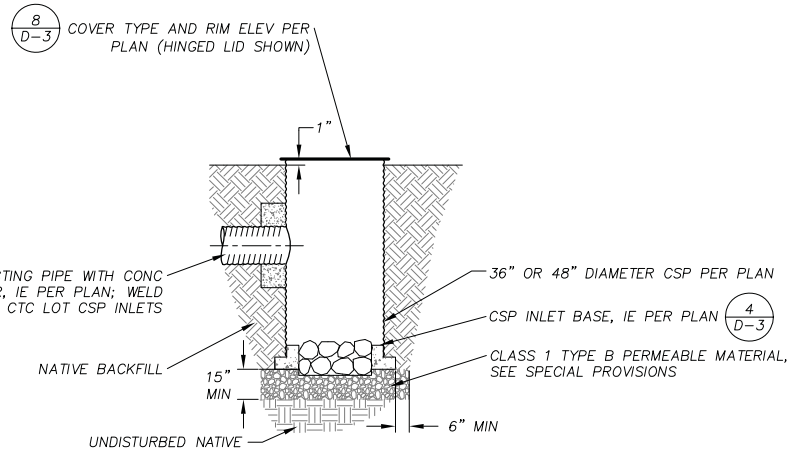


COUNTY OF EL DORADO
 COMMUNITY DEVELOPMENT AGENCY
 TRANSPORTATION DIVISION

TAHOE HILLS ECP
 DETAIL SHEET

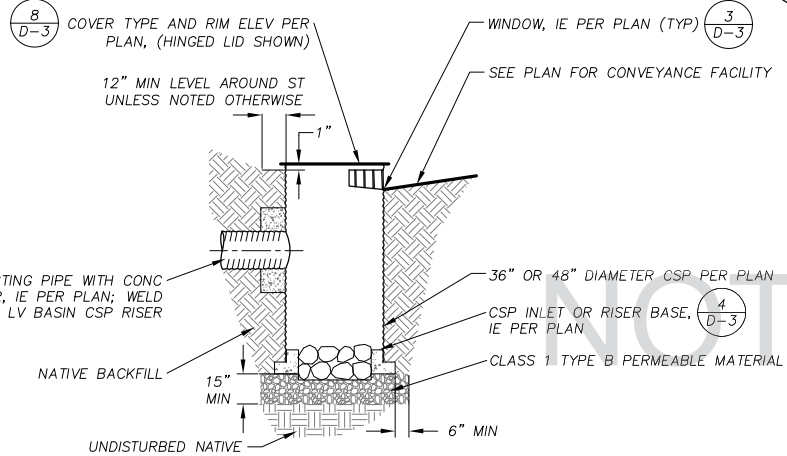
SHEET
 D-2
 12 OF 19
 CONTRACT NO.
 PW 14-31075
 CIP NO.
 95171

Drawing name: \\CDADat\3D\TP-3L\Engineering\Civil_3D_PROJECTS\9517\Engineering\MPL\AN11_13_TH_D-1_P-3.dwg
 ORIGINAL SCALE IS IN INCHES
 FOR REDUCED PLANS



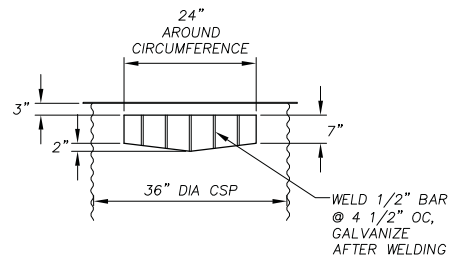
CSP INLET

1
D-3



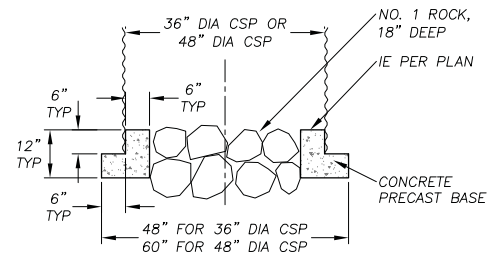
CSP INLET OR RISER WITH WINDOW

2
D-3



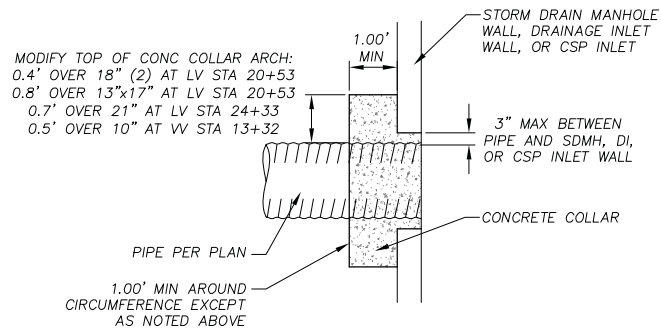
CSP INLET OR RISER WINDOW

3
D-3



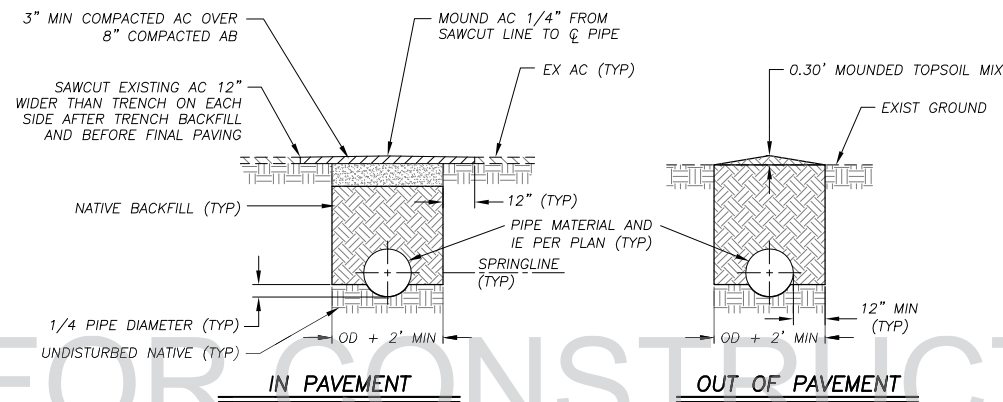
CSP INLET OR RISER BASE

4
D-3



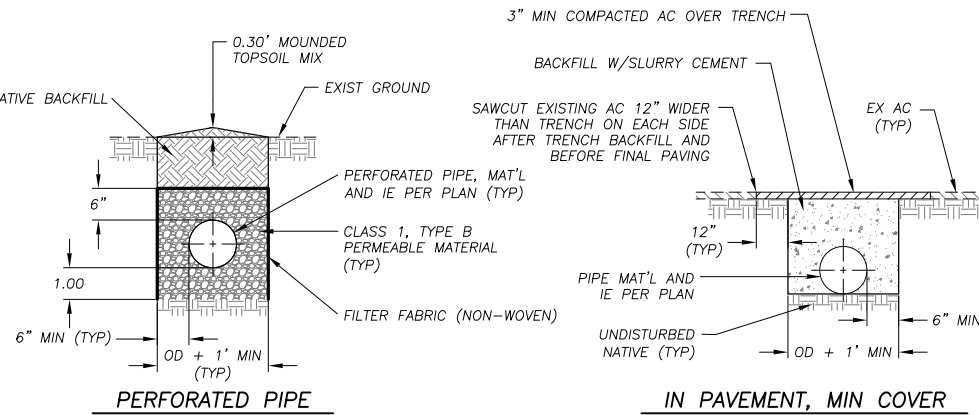
CONCRETE COLLAR

5
D-3



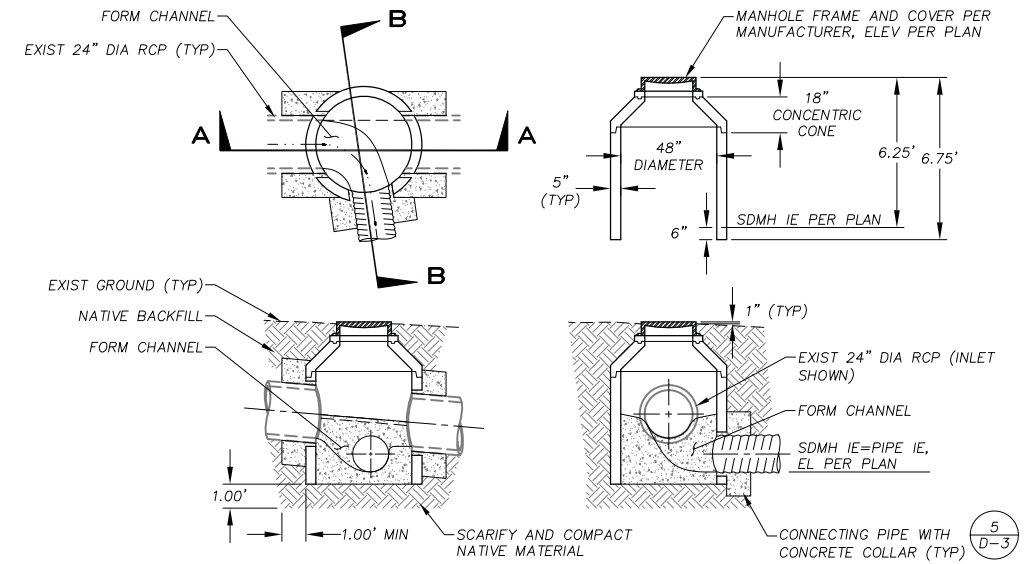
PERFORATED PIPE

- NOTES:
- SEE SPECIAL PROVISIONS FOR LOCATIONS WHERE PIPE TRENCH BACKFILL SHALL BE SLURRY CEMENT.
 - FOR REMOVAL OF EXISTING PIPE IN PAVEMENT: PRIOR TO PAVING, SAWCUT THE EXISTING AC PAVEMENT 12" WIDER THAN THE TRENCH ON EACH SIDE AND EXCAVATE AS REQUIRED TO ACCOMMODATE THE NEW PAVEMENT SECTION



PIPE TRENCH

6
D-3



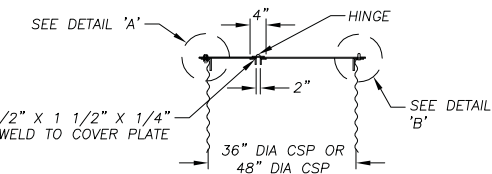
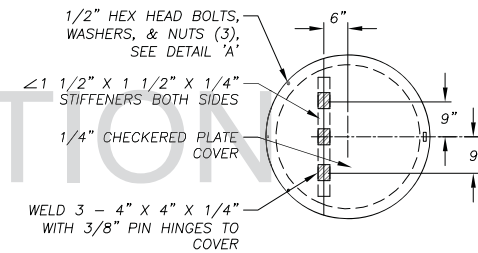
SECTION A-A

SECTION B-B

- NOTES:
- SEE REVEGETATION PLAN FOR TREATMENT OF DISTURBED AREA AROUND STORM DRAIN MANHOLE.
 - INSTALL STEPS PER MANUFACTURER.

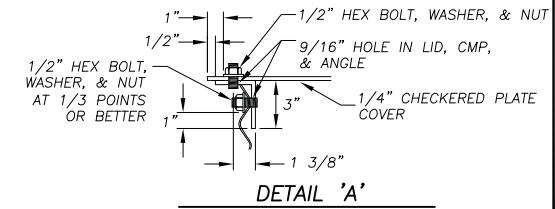
STORM DRAIN MANHOLE

7
D-3

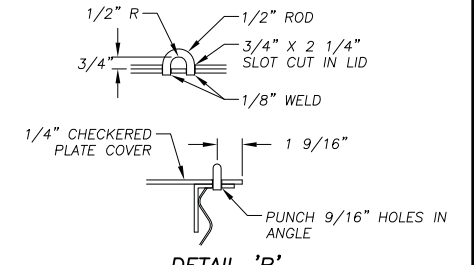


HINGED LID

8
D-3

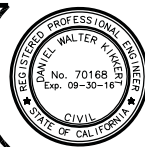


DETAIL 'A'



DETAIL 'B'

REVISION	NUMBER	DATE	DESCRIPTION	BY



PREPARED UNDER THE SUPERVISION OF:

 REGISTERED CIVIL ENGINEER
 DATE: 04/20/15

DESIGNED: ALD
 DRAWN: ALD
 CHECKED: DWK
 DATE: 04/2015
 ROAD NUMBER: ---

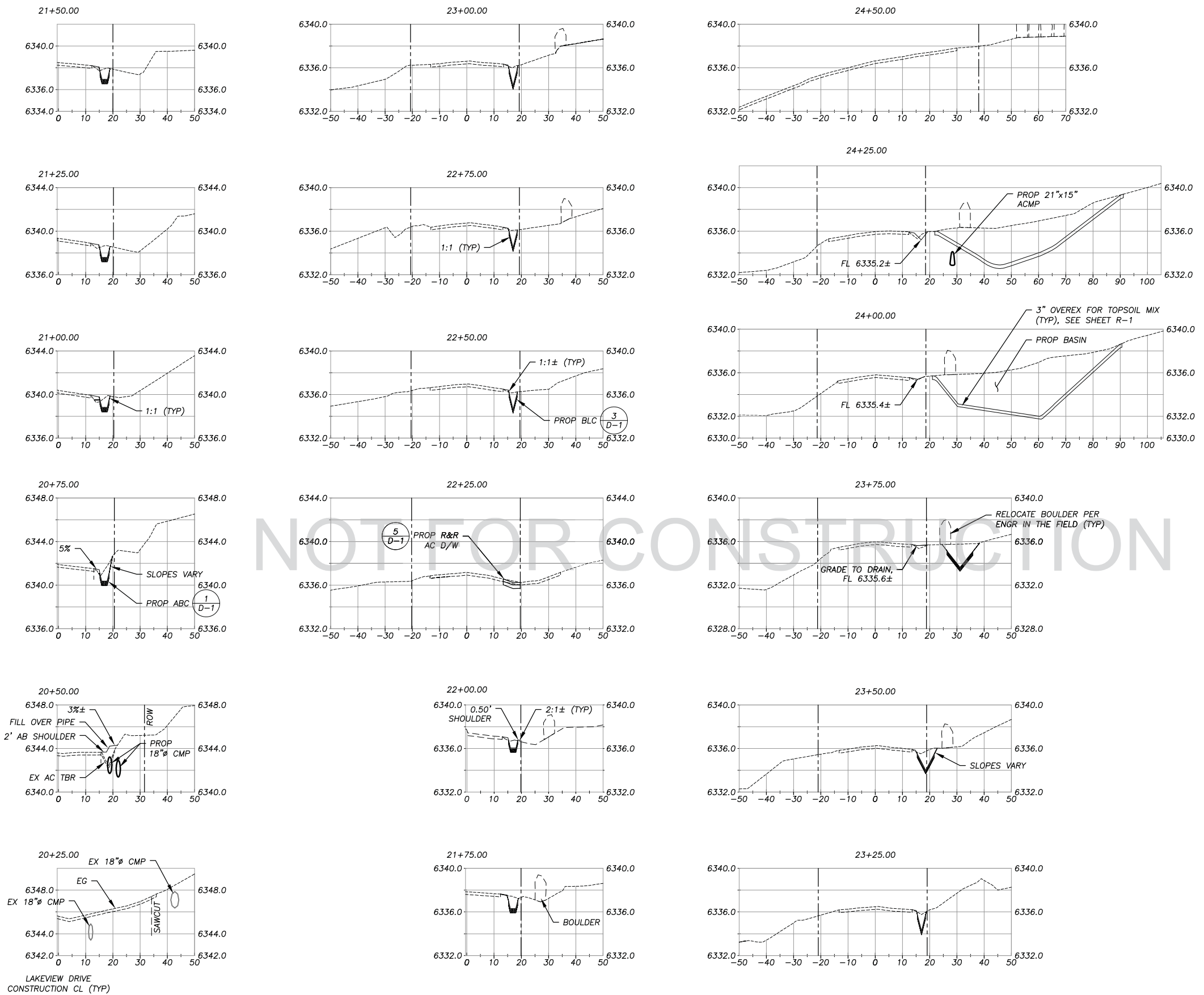


COUNTY OF EL DORADO
 COMMUNITY DEVELOPMENT AGENCY
 TRANSPORTATION DIVISION

TAHOE HILLS ECP
 DETAIL SHEET

SHEET
 D-3
 13 OF 19
 CONTRACT NO.
 PW 14-31075
 CIP NO.
 95171

ORIGINAL SCALE IS IN INCHES
 2
 1
 0
 FOR REDUCED PLANS
 Drawing name: \\CD\data\317P-317-Engineering\Civil_3D_PROJECTS\95171\Engineering\PLAN\14_T14_X-1.dwg



NOT FOR CONSTRUCTION

REVISION	NUMBER	DATE	DESCRIPTION	BY



PREPARED UNDER THE SUPERVISION OF:
[Signature]
 REGISTERED CIVIL ENGINEER
 DATE: 04/20/15

DESIGNED: ALD
 DRAWN: ALD
 CHECKED: DWK
 DATE: 04/20/15
 ROAD NUMBER: ---

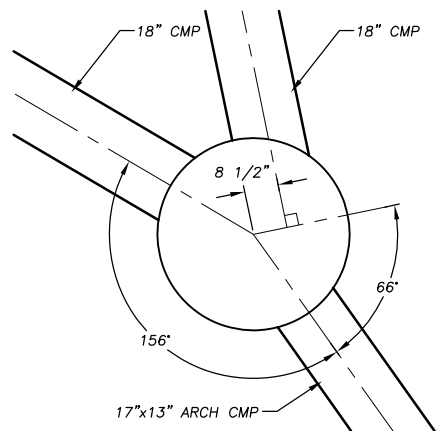


COUNTY OF EL DORADO
 COMMUNITY DEVELOPMENT AGENCY
 TRANSPORTATION DIVISION

TAHOE HILLS ECP
 CROSS-SECTION SHEET

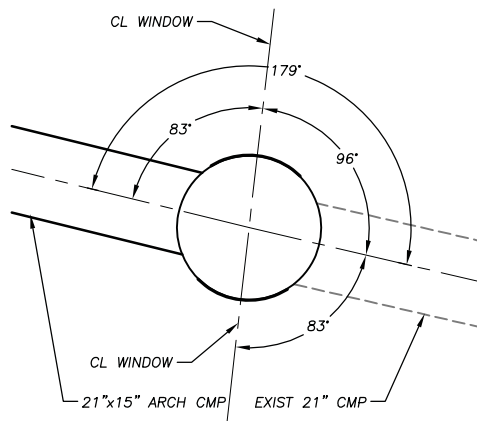
SHEET
X-1
 14 OF 19
 CONTRACT NO.
PW 14-31075
 CIP NO.
95171

ORIGINAL SCALE IS IN INCHES
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 FOR REDUCED PLANS
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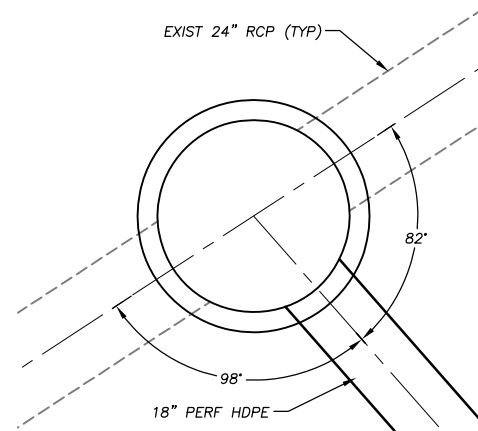
**48"Ø CSP INLET
AT LV 20+53.00 (SHEET P-2)**

NTS



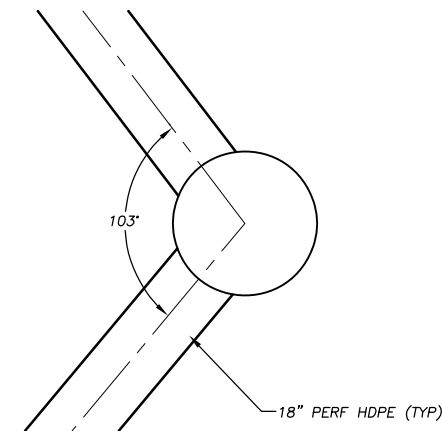
**36"Ø CSP INLET
AT LV 24+32.86 (SHEET P-3)**

NTS



**48"Ø STORM DRAIN MANHOLE
AT CTC 30+67.00 (SHEET P-5)**

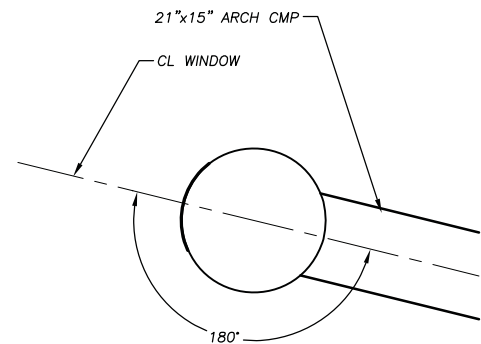
NTS



**36"Ø CSP INLET
AT CTC 30+92.82 (SHEET P-5)**

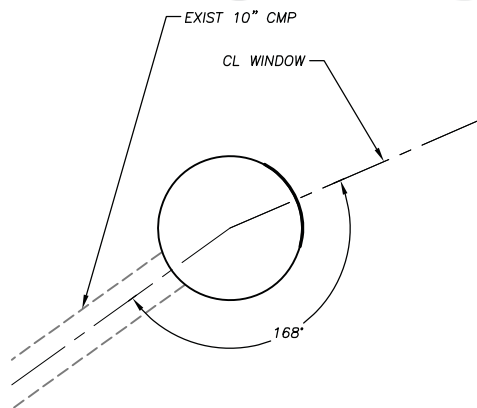
NTS

NOT FOR CONSTRUCTION



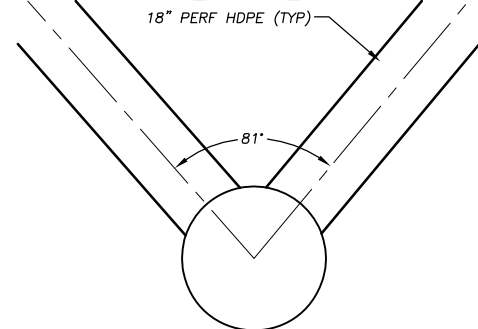
**36"Ø CSP RISER
AT LV 24+20.72 (SHEET P-3)**

NTS



**36"Ø CSP INLET
AT W 13+31.78 (SHEET P-4)**

NTS



**36"Ø CSP INLET
AT CTC 30+71.31 (SHEET P-5)**

NTS

REVISION	NUMBER	DATE	DESCRIPTION	BY



PREPARED UNDER THE SUPERVISION OF:

 REGISTERED CIVIL ENGINEER
 DATE: 04/20/15

DESIGNED: ALD
 DRAWN: ALD
 CHECKED: DWK
 DATE: 04/2015
 ROAD NUMBER: ---

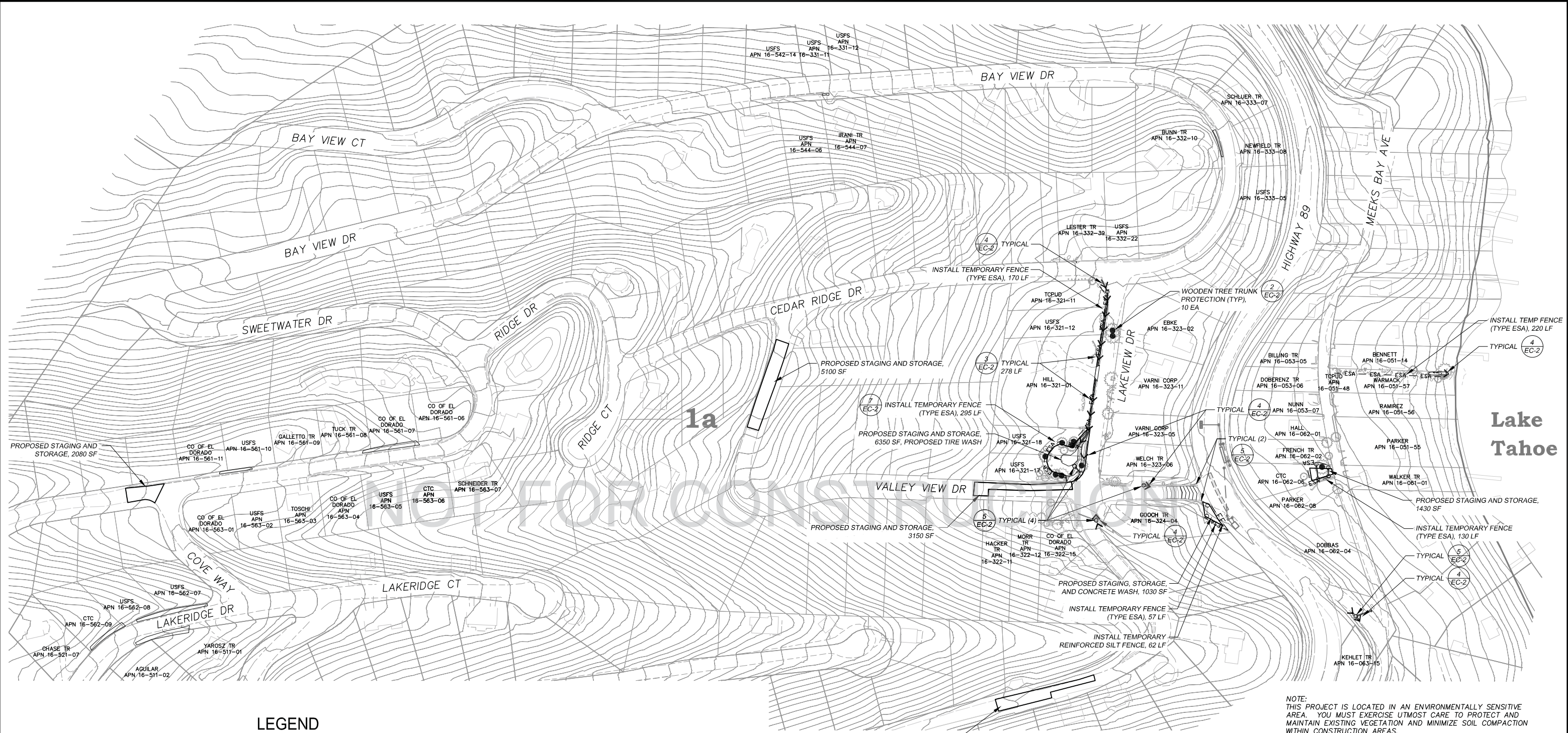


COUNTY OF EL DORADO
 COMMUNITY DEVELOPMENT AGENCY
 TRANSPORTATION DIVISION

TAHOE HILLS ECP
 HORIZONTAL CONTROL SHEET

SHEET
HC-1
 15 OF 19
 CONTRACT NO.
PW 14-31075
 CIP NO.
95171

ORIGINAL SCALE IS IN INCHES
 2
 1
 0
 FOR REDUCED PLANS

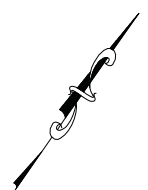


LEGEND

	COUNTY OR CALTRANS RIGHTS-OF-WAY OR PROPERTY LINE		PROPOSED CSP INLET/RISER, DI, OR SDMH
	EXISTING EDGE OF PAVEMENT		PROPOSED PIPE
	LAND CAPABILITY BOUNDARY		PROPOSED ROCK DISSIPATOR OR RSP
	10' SEZ SETBACK (IF APPLICABLE)		PROPOSED ABC
	PROPOSED STAGING, STORAGE, OR CONC WASH		PROPOSED BLC
	WOODEN TREE TRUNK PROTECTION		PROPOSED BASIN
	ESA — ESA — TEMPORARY FENCE (TYPE ESA)		PROPOSED R&R AC
	RSF — RSF — REINFORCED SILT FENCE		
	SEDIMENT CONTROL		

NOTE:
 THIS PROJECT IS LOCATED IN AN ENVIRONMENTALLY SENSITIVE AREA. YOU MUST EXERCISE UTMOST CARE TO PROTECT AND MAINTAIN EXISTING VEGETATION AND MINIMIZE SOIL COMPACTION WITHIN CONSTRUCTION AREAS.

NOTE:
 RIGHT-OF-WAY AND PARCEL LINES SHOWN ARE APPROXIMATE.



SCALE: 1" = 100'

REVISION	NUMBER	DATE	DESCRIPTION	BY



PREPARED UNDER THE SUPERVISION OF:

 REGISTERED CIVIL ENGINEER
 DATE: 04/20/15

DESIGNED: ALD
 DRAWN: ALD
 CHECKED: DWK
 DATE: 04/2015
 ROAD NUMBER: ---

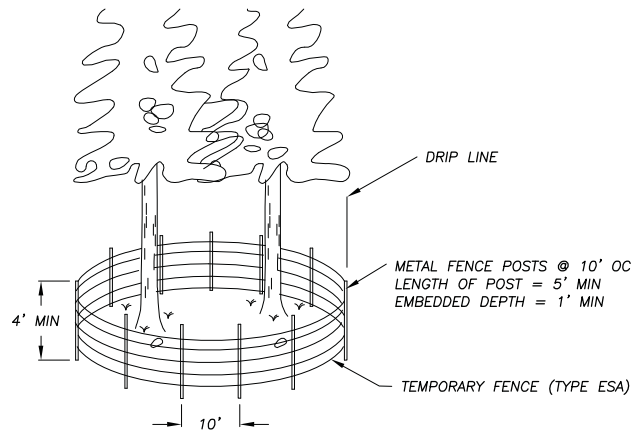


COUNTY OF EL DORADO
 COMMUNITY DEVELOPMENT AGENCY
 TRANSPORTATION DIVISION

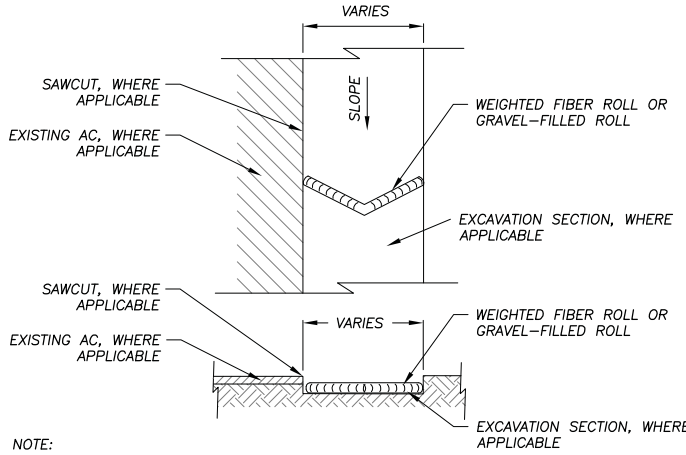
TAHOE HILLS ECP
 TEMPORARY EROSION CONTROL

SHEET
EC-1
 16 of 19
 CONTRACT NO.
PW 14-31075
 CIP NO.
95171

PROJECTS\95171\Engineering\PLANS\17 TH EC-2.dwg
 Drawing name: \\C:\Data\3D\TP-3\T-Engineering\PLANS\17 TH EC-2.dwg
 ORIGINAL SCALE IS IN INCHES
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 FOR REDUCED PLANS

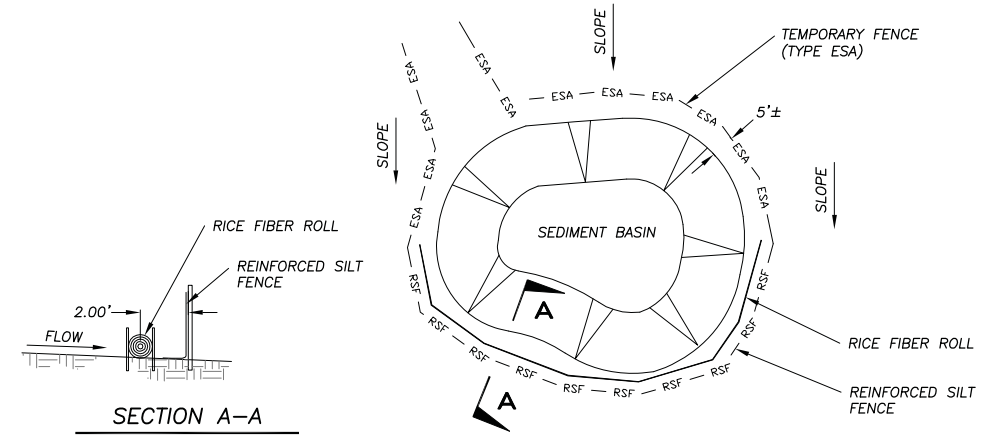


TEMPORARY FENCE (TYPE ESA) AT DRIPLINES 1
NTS EC-2

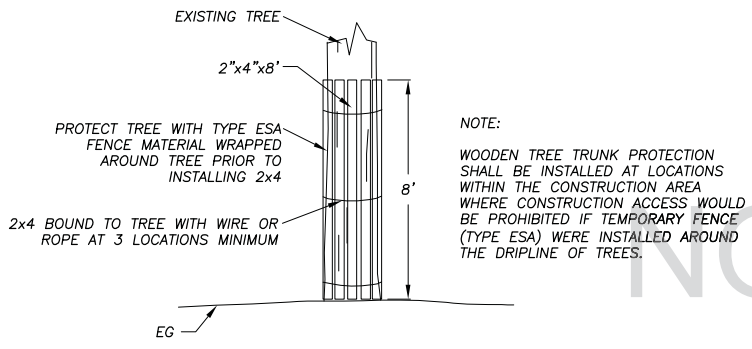


NOTE:
SPACING INTERVALS FOR WEIGHTED FIBER ROLL OR GRAVEL-FILLED ROLL TEMPORARY SEDIMENT CONTROL ON GRADE SHALL BE AT 50' OC FOR SLOPES GREATER THAN 5% AND AT 100' OC FOR SLOPES LESS THAN OR EQUAL TO 5%.

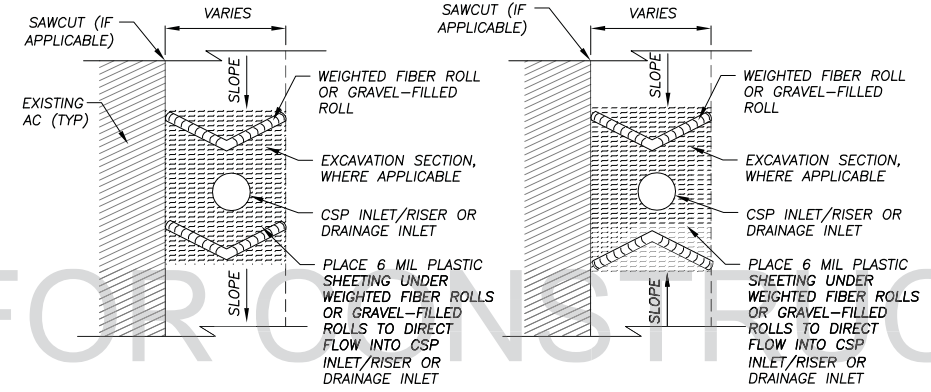
WEIGHTED FIBER ROLLS OR GRAVEL-FILLED ROLLS 4
NTS EC-2



TYPICAL SEDIMENT BASIN REINFORCED SILT FENCE AND TYPE ESA FENCING PLACEMENT 7
NTS EC-2

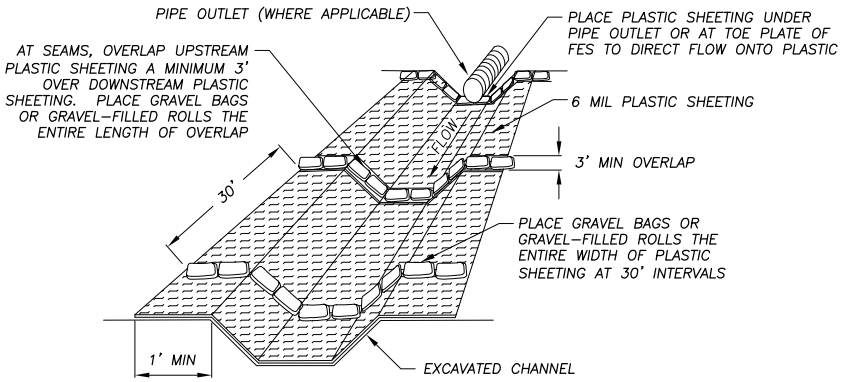


WOODEN TREE TRUNK PROTECTION 2
NTS EC-2



NOTE:
SEE ALSO TYPE 2 OR TYPE 3A, CALTRANS STD PLANS T61 AND T62.

DRAIN INLET PROTECTION 5
NTS EC-2



PLASTIC SHEETING WITH GRAVEL BAGS OR GRAVEL-FILLED ROLLS 3
NTS EC-2

NOT USED 6
NTS EC-2

- GENERAL NOTES:
1. LOCATIONS AND LF OF TEMPORARY REINFORCED SILT FENCE REQUIRED FOR THE STAGING AREAS ARE NOT SHOWN. YOU ARE TO INCLUDE THESE AREAS IN YOUR TEMPORARY EROSION CONTROL PLAN SUBMITTAL.
 2. LENGTHS OF TEMPORARY REINFORCED SILT FENCE AND TEMPORARY FENCE (TYPE ESA) DOES NOT INCLUDE MINIMUM LIMITS FOR TREE PROTECTION. TREE PROTECTION FENCING IS TO BE AS SHOWN AND/OR AS DETERMINED IN THE FIELD.

REVISION	NUMBER	DATE	DESCRIPTION	BY



PREPARED UNDER THE SUPERVISION OF:

 REGISTERED CIVIL ENGINEER
 DATE: 04/20/15

DESIGNED: ALD
 CHECKED: DWK
 ROAD NUMBER: ---
 DRAWN: ALD
 DATE: 04/20/15

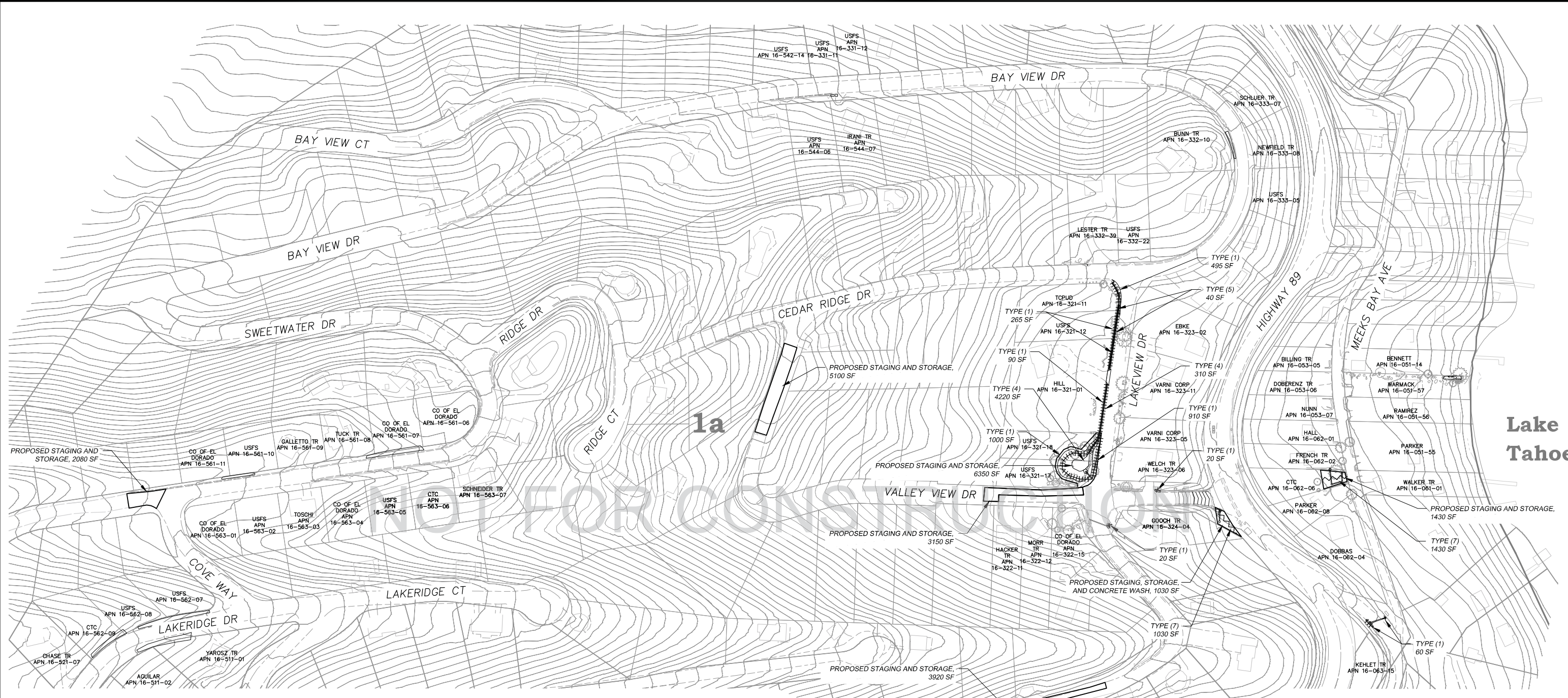


COUNTY OF EL DORADO
 COMMUNITY DEVELOPMENT AGENCY
 TRANSPORTATION DIVISION

TAHOE HILLS ECP
 TEMPORARY EROSION CONTROL

SHEET
EC-2
 17 OF 19
 CONTRACT NO.
PW 14-31075
 CIP NO.
95171

ORIGINAL SCALE IS IN INCHES
 2
 1
 0
 FOR REDUCED PLANS
 Drawing name: \\CD\data\3D\TP-3\T-Engineering\MPL\AN18 TH R-1.dwg



DEFINITIONS

BLANKET = ROLLED EROSION CONTROL PRODUCT (RECP)

REVEGETATION WORK LEGEND

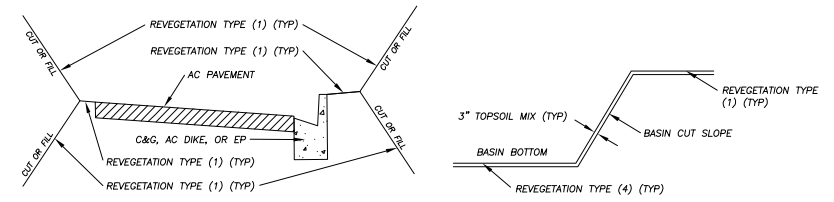
- TYPE (1) - CONTRACTOR TO PLACE 2" COMPACTED TOPSOIL MIX, CALIFORNIA CONSERVATION CORPS (CCC) TO ADD SEED AND SOIL AMENDMENT, CONTRACTOR TO APPLY 1" MULCH, CONTRACTOR TO APPLY TACKIFIER.
- TYPE (2) - N/A.
- TYPE (3) - N/A.
- TYPE (4) - CONTRACTOR TO PLACE 3" COMPACTED TOPSOIL MIX IN CHANNEL/BASIN BOTTOM AND ON CHANNEL/BASIN SLOPES, CCC TO PLACE SEED, CONTRACTOR TO PLACE BLANKET ON CHANNEL BOTTOM AND CHANNEL/BASIN SIDE SLOPES, CONTRACTOR TO APPLY TACKIFIER.
- TYPE (5) - CCC TO LOOSEN SOIL ON SLOPE, CONTRACTOR TO APPLY 1" TOPSOIL MIX, CCC TO MIX TOPSOIL MIX WITH LOOSENED SOIL AND ADD SEED, CONTRACTOR TO PLACE BLANKET, CONTRACTOR TO APPLY TACKIFIER.
- TYPE (6) - N/A.
- TYPE (7) - STAGING AND STORAGE AREAS OFF PAVEMENT: CCC TO APPLY 2" MINIMUM THICKNESS OF WOOD CHIP/PINE NEEDLE MULCH.

NOTES

1. REVEGETATION TYPE (1) FOR AREAS ADJACENT TO CURB AND GUTTER, AC DIKE, ROAD SHOULDERING, PIPE INSTALLATION, DISTURBED AREAS ADJACENT TO IMPROVEMENTS, AND GRADE TO DRAIN LOCATIONS, UNLESS NOTED OTHERWISE.
2. REVEGETATION TYPE (4) IS ASSOCIATED WITH THE BASIN, THE BLANKET-LINED CHANNEL, AND THE SLOPES ABOVE THE BLANKET-LINED CHANNEL.
3. REVEGETATION TYPE (5) IS ASSOCIATED WITH SLOPES ABOVE THE ARTICULATED BLOCK CHANNEL.
4. AMENDMENT AND MULCH WILL NOT BE APPLIED TO AREAS WITHIN CHANNELS OR BASINS.
5. ALL REVEGETATION AREAS DESCRIBED ABOVE WILL BE IRRIGATED WITH A WATER TRUCK BY THE COUNTY FOR TWO YEARS FOLLOWING INSTALLATION TO ENSURE OPTIMUM PLANT SURVIVAL.
6. SEE SPECIAL PROVISIONS FOR LOCATIONS WHERE SCARIFYING IS REQUIRED PRIOR TO REVEGETATION TREATMENT.

SYMBOL LEGEND

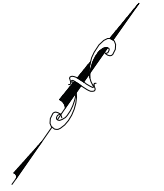
- ||||| REVEGETATION AREA (TYPES 1-5)
- ~~~~~ REVEGETATION AREA (TYPE 7)
- ▭ STAGING AND STORAGE AREAS



TYPICAL ROADWAY & BASIN REVEGETATION
NTS

NOTE:
THIS PROJECT IS LOCATED IN AN ENVIRONMENTALLY SENSITIVE AREA. YOU MUST EXERCISE UTMOST CARE TO PROTECT AND MAINTAIN EXISTING VEGETATION AND MINIMIZE SOIL COMPACTION WITHIN CONSTRUCTION AREAS.

NOTE:
RIGHT-OF-WAY AND PARCEL LINES AS SHOWN ARE APPROXIMATE.



SCALE: 1" = 100'

REVISION	NUMBER	DATE	DESCRIPTION	BY



PREPARED UNDER THE SUPERVISION OF:

 REGISTERED CIVIL ENGINEER
 DATE: 04/20/15

DESIGNED: ALD
 DRAWN: ALD
 CHECKED: DWK
 DATE: 04/2015
 ROAD NUMBER: ---

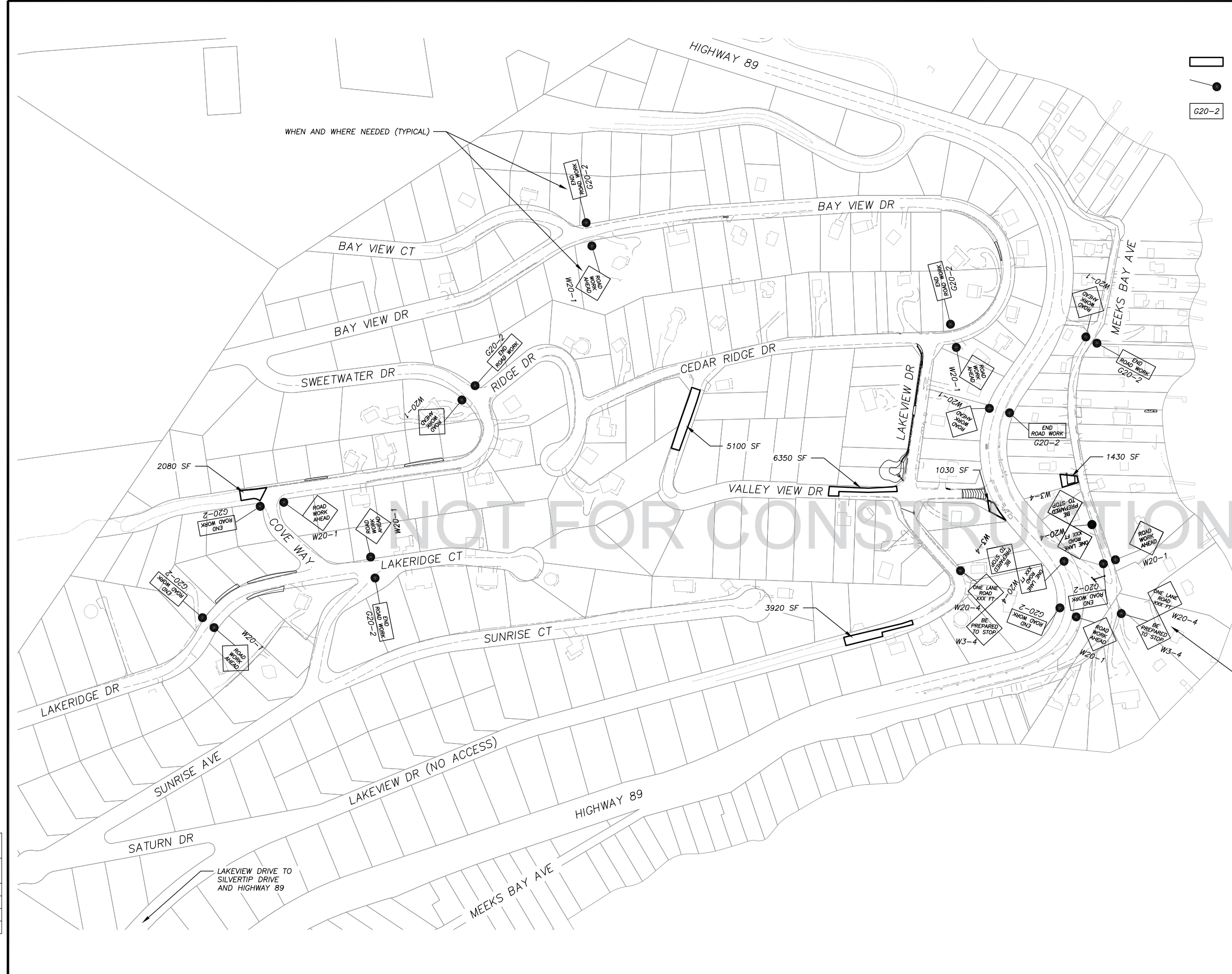


**COUNTY OF EL DORADO
 COMMUNITY DEVELOPMENT AGENCY
 TRANSPORTATION DIVISION**

**TAHOE HILLS ECP
 REVEGETATION PLAN**

SHEET
R-1
 18 OF 19
 CONTRACT NO.
PW 14-31075
 CIP NO.
95171

FOR REDUCED PLANS ORIGINAL SCALE IS IN INCHES 2 1 0



LEGEND

- PROPOSED STAGING AREA WITH SF
- APPROXIMATE SIGN LOCATION
- G20-2 "END ROAD WORK" SIGN
- W20-1 "ROAD WORK AHEAD" SIGN
- W20-4 "ONE LANE ROAD XXX FT" SIGN
- W3-4 "BE PREPARED TO STOP" SIGN

NOTES:

1. THIS PLAN HAS BEEN PREPARED AS A GUIDE FOR YOU IN PREPARATION OF A COMPLETE TRAFFIC CONTROL PLAN AND TO AID IN YOUR PLANNING FOR STAGING/STORAGE OF MATERIALS AND EQUIPMENT. YOUR TRAFFIC CONTROL PLAN WILL INCLUDE DETAILED CONTROLS INCLUDING FLAGGERS, LANE CLOSURES, AND SIGNS FOR ALL ITEMS OF ROAD WORK WHICH WILL REQUIRE ALTERATION OF EXISTING TRAFFIC PATTERNS. THE LEGEND SHOWS THE LIST OF SIGNS TO BE REQUIRED AS A MINIMUM.
2. YOUR TRAFFIC CONTROL PLAN WILL ADDRESS EACH PHASE OF CONSTRUCTION (e.g. PIPE PLACEMENT, STRUCTURES ADJACENT TO AND/OR AFFECTING THE ROADWAY, ETC.) AND WILL CONFORM TO PART 6 OF THE CALIFORNIA MUTCD ENTITLED "TEMPORARY TRAFFIC CONTROL" AND THE SPECIAL PROVISIONS. YOUR TRAFFIC CONTROL PLAN WILL ALSO INCLUDE ALL SIGNING REQUIRED AT INTERSECTING STREETS WITHIN THE AREA THAT WILL REQUIRE TRAFFIC CONTROL.
3. SINGLE LANE CLOSURES WILL BE ALLOWED FOR THE INSTALLATION OF THE ROCK SLOPE PROTECTION (VARIOUS LOCATIONS); CSP INLETS, CHANNELS, R&R AC DRIVEWAY, DRAINAGE INLET, CURB AND GUTTER, AND PIPE ON LAKEVIEW DRIVE; CSP INLET, CONCRETE CURB OPENING, AND AC OVERLAY ON VALLEY VIEW DRIVE; DRAINAGE INLET, CURB AND GUTTER, AND PIPE ON MEEKS BAY AVENUE SOUTH. AT ALL OTHER TIMES, TWO LANES OF TRAFFIC WILL BE MAINTAINED. DURING THE AC OVERLAY WORK ON VALLEY VIEW DRIVE, A DETOUR FROM HIGHWAY 89 TO SILVERTIP DRIVE TO SATURN DRIVE WILL BE ALLOWED. SIGNING FOR THIS DETOUR WILL BE SHOWN ON YOUR TRAFFIC CONTROL PLAN.
4. AT THE END OF EACH WORK DAY A MINIMUM OF TWO 10 FOOT LANES WILL BE OPENED TO PUBLIC TRAFFIC. NO LANE CLOSURE WILL PREVENT RESIDENTS FROM ACCESS TO THEIR PROPERTY.
5. WHEN LANE CLOSURES ARE REMOVED AND ROADS ARE OPEN TO PUBLIC TRAFFIC, ALL DRIVEWAYS WITHIN THE WORK AREA WILL BE ACCESSIBLE AND OPERATIONAL.
6. YOU WILL NOT EXCAVATE MORE THAN CAN BE INSTALLED AND BACKFILLED IN ONE WORKING DAY.
7. YOUR TRAFFIC CONTROL PLAN WILL INCLUDE SIGNAGE ON HIGHWAY 89 FOR TRAFFIC CONTROL RELATED TO TRUCKS ENTERING THE ROADWAY FROM THE PROJECT AREA.
8. YOUR ATTENTION IS DIRECTED TO THE SWPPP, TEMPORARY EROSION CONTROL SHEETS, REVEGETATION PLAN SHEET, AND THE SPECIAL PROVISIONS REGARDING TEMPORARY EROSION CONTROL REQUIREMENTS FOR STAGING AREAS.
9. STAGING AREAS SHOWN ARE FOR THE TEMPORARY STORAGE OF CONSTRUCTION MATERIALS AND EQUIPMENT WHICH ARE TO BE USED ON THIS PROJECT.

REVISION	NUMBER	DATE	DESCRIPTION	BY



PREPARED UNDER THE SUPERVISION OF:

 REGISTERED CIVIL ENGINEER
 DATE: 04/20/15

DESIGNED: ALD
 CHECKED: DWK
 ROAD NUMBER: ---



**COUNTY OF EL DORADO
 COMMUNITY DEVELOPMENT AGENCY
 TRANSPORTATION DIVISION**

**TAHOE HILLS ECP
 TRAFFIC CONTROL PLAN**

SHEET
T-1
 19 OF 19
 CONTRACT NO.
PW 14-31075
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95171

SCALE: 1" = 150'