DEPARTMENT OF TRANSPORTATION
COUNTY OF EL DORADO, CA

PROJECT PLANS FOR THE CONSTRUCTION OF

RUBICON 5 EROSION CONTROL PROJECT

IN THE COUNTY OF EL DORADO, DISTRICT 5
WITHIN PORTIONS OF THE RUBICON PROPERTIES AND RUBICON PARK ESTATES 1 & 2 SUBDIVISIONS

To be supplemented with Standard Plans and Specifications dated May 2006, including the amendments to the May 2006 Standard Specifications, of the California Department of Transportation, unless otherwise noted.

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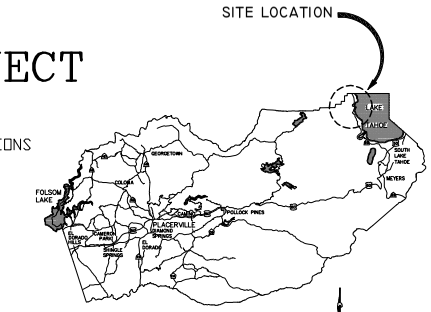
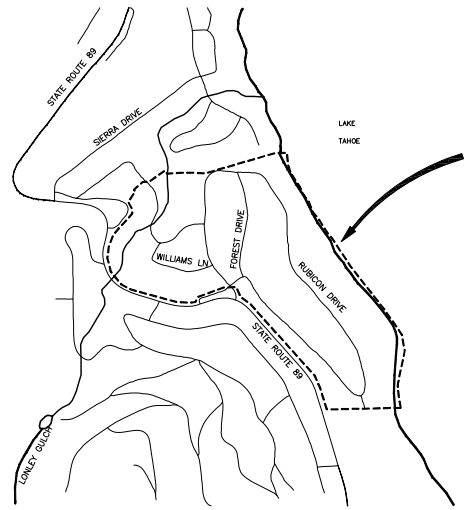


VICINITY MAP
COUNTY OF EL DORADO



LOCATION MAP
SCALE: 1" = 2000'

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. If the Contractor possesses a Class A license instead of the equivalent combination of Classes required by the categories and type of work included in the Contract Documents and Plans, then the Contractor or a subcontractor must also possess a CLASS C27 "Landscaping Contractor" license. 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 forfeiture as provided under that section.

REVISIONS

MARK	DATE	BY	

FUNDING AGENCY

CALIFORNIA TAHOE CONSERVANCY
USDA FOREST SERVICE
TAHOE REGIONAL PLANNING AGENCY

REGISTERED PROFESSIONAL ENGINEER — STEVEN PETER MOHAN — C No. 55757 — Exp. 12-31-10 — CIVIL — STATE OF CALIFORNIA

SUBMITTED BY: DATE
CIVIL ENGINEER
STATE OF CALIFORNIA NO.

BOARD OF SUPERVISORS
JOHN R. KNIGHT I
RAY NUTTING II
JAMES SWEENEY III
RON V. BRIGGS IV
NORMA SANTIAGO V

COUNTY OF EL DORADO
DEPARTMENT OF TRANSPORTATION
(530) 573-7900 (530) 621-5900
924 B EMERALD BAY 2850 FAIRLANE CT
ROAD, SOUTH LAKE PLACERVILLE, CA
TAHOE, CA 96150 95667

ADOPTED AND APPROVED BY:

CHAIR OF THE BOARD, EL DORADO COUNTY BOARD OF SUPERVISORS DATE

JAMES W. WARE, RCE NO. 61036
DIRECTOR, EL DORADO COUNTY DEPARTMENT OF TRANSPORTATION DATE

RUSSELL A. WITCHARD, RCE NO. 51368
DEPUTY DIRECTOR OF ENGINEERING, EL DORADO COUNTY DEPARTMENT OF TRANSPORTATION DATE

CONTRACT NO. PW 09-30490, CIP NO. 95178

RUBICON 5 EROSION CONTROL PROJECT

TITLE SHEET

SHEET 1 OF 26

Drawing name: S:\CIVIL 3D PROJECTS\95178\Engineering\MPLANN_Title.dwg Layout Tab: TITLE DKikkert

10-0160.C.1

GENERAL NOTES

1. ALL IMPROVEMENTS SHALL BE ACCOMPLISHED UNDER THE APPROVAL, INSPECTION, AND TO THE SATISFACTION OF THE EL DORADO COUNTY DEPARTMENT OF TRANSPORTATION (DOT). IMPROVEMENT CONSTRUCTION SHALL COMPLY WITH THESE PLANS AND THE MAY 2006 CALTRANS STANDARD PLANS, UNLESS NOTED OTHERWISE. ALL REFERENCES TO THE "STANDARD SPECIFICATIONS" SHALL MEAN THE STATE OF CALIFORNIA, DEPARTMENT OF TRANSPORTATION (CALTRANS) STANDARD SPECIFICATIONS, MAY 2006, INCLUDING THE AMENDMENTS TO THE MAY 2006 STANDARD SPECIFICATIONS. CONSTRUCTION NOT SPECIFIED ON THESE PLANS OR IN SPECIFIC EL DORADO COUNTY (COUNTY) ORDINANCES SHALL CONFORM TO THE REQUIREMENTS OF THE STANDARD SPECIFICATIONS. THE CONTRACTOR IS OBLIGATED TO BE FAMILIAR WITH APPLICABLE SECTIONS OF THE STANDARD SPECIFICATIONS NOT DISCUSSED IN THE GENERAL NOTES. THE CONTRACT SPECIAL PROVISIONS SHALL SUPERSEDE THOSE OF THE STANDARD SPECIFICATIONS WHERE DISCREPANCIES OCCUR.

2. CONSTRUCTION HOURS SHALL BE WEEKDAYS BETWEEN 8:00 A.M. AND 6:30 P.M. UNLESS PRIOR APPROVAL IS RECEIVED FROM THE COUNTY DOT.

3. THE LOCATIONS AND EXTENT OF EXISTING 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 EXISTING UTILITIES BASED UPON AVAILABLE RECORDS. THE CONTRACTOR SHALL DETERMINE THE TYPE, LOCATION, SIZE, AND/OR DEPTH OF THE EXISTING UTILITIES WITHIN THE WORK AREA BEFORE COMMENCING WORK. THE CONTRACTOR OR ANY SUBCONTRACTOR FOR THIS CONTRACT SHALL BE FULLY RESPONSIBLE FOR ANY AND ALL DAMAGES WHICH MIGHT BE OCCASIONED BY THE FAILURE TO EXACTLY LOCATE AND PRESERVE ANY AND ALL UNDERGROUND UTILITIES. THE CONTRACTOR SHALL CONTACT UNDERGROUND SERVICE ALERT AT (800) 642-2444 AT LEAST 48 HOURS PRIOR TO ANY CONSTRUCTION. SEE SPECIAL PROVISIONS FOR CONTRACTOR NOTIFICATION REQUIREMENTS. THE CONTRACTOR SHALL ASSUME COMPLETE RESPONSIBILITY FOR DAMAGED UTILITIES.

4. UNLESS NOTED OTHERWISE ON THE PLANS, THE CONTRACTOR SHALL BE RESPONSIBLE FOR THE PROTECTION OF ALL EXISTING SURVEY MONUMENTS AND OTHER SURVEY MARKERS DURING CONSTRUCTION.

5. THE CONTRACTOR SHALL PROVIDE, PLACE, AND MAINTAIN ALL LIGHTS, SIGNS, BARRICADES, FLAG PERSONS, PILOT CAR, OR OTHER DEVICES NECESSARY TO CONTROL TRAFFIC THROUGH THE CONSTRUCTION AREA AND FOR PUBLIC SAFETY IN ACCORDANCE WITH THESE PLANS, THE STANDARD SPECIFICATIONS, AND THE CALIFORNIA MANUAL ON UNIFORM TRAFFIC CONTROL DEVICES (MUTCD).

6. THE CONTRACTOR AGREES TO ASSUME SOLE AND COMPLETE RESPONSIBILITY FOR JOB SITE CONDITIONS DURING THE COURSE OF CONSTRUCTION OF THIS PROJECT, INCLUDING SAFETY OF ALL PERSONS AND PROPERTY, AND FURTHER AGREES THAT THIS REQUIREMENT SHALL APPLY CONTINUOUSLY AND NOT BE LIMITED TO NORMAL WORKING HOURS IN ACCORDANCE WITH THE PROVISIONS OUTLINED BY THE PROJECT CONTRACT AND STANDARD SPECIFICATIONS.

7. THERE SHALL BE NO GRADING OR LAND DISTURBANCE PERFORMED WITH RESPECT TO THE PROJECT BETWEEN OCTOBER 15 AND MAY 1 UNLESS PROPER 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 SHALL OBTAIN THESE APPROVALS.

8. THE CONTRACTOR SHALL MAINTAIN A SET OF PLANS ON THE JOB SHOWING "AS-CONSTRUCTED" CHANGES MADE TO DATE. UPON COMPLETION OF THE PROJECT, THE CONTRACTOR SHALL SUPPLY TO THE COUNTY A SET OF PLANS, MARKED UP TO THE SATISFACTION OF THE COUNTY, REFLECTING THE AS-CONSTRUCTED MODIFICATIONS.

9. ALL CONTROL STATIONING AND DATA DIMENSIONING ARE REFERENCED TO THE CENTERLINE OF THE FACILITY SHOWN UNLESS OTHERWISE NOTED.

10. AT NO TIME SHALL THE CONTRACTOR UNDERTAKE TO CLOSE OFF ANY EXISTING UTILITY LINES OR OPEN VALVES OR TAKE ANY OTHER ACTION WHICH WOULD AFFECT THE OPERATION OF EXISTING WATER OR SEWER SYSTEMS WITHOUT PRIOR APPPROVAL FROM THE TAHOE CITY PUBLIC UTILITY DISTRICT (TCPUD). APPROVAL SHALL BE REQUESTED AT LEAST 48 HOURS IN ADVANCE OF THE TIME THAT THE INTERRUPTION OF THE EXISTING SYSTEM IS REQUIRED. ANY INTERRUPTION OF SERVICE 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, THE CONTRACTOR MUST ADVISE TCPUD.

11. THE CONTRACTOR SHALL BE REQUIRED TO PERFORM PREVENTIVE DUST CONTROL MEASURES TO ENSURE THAT DUST RESULTING FROM THE CONTRACTOR'S PERFORMANCE OF THE WORK IS CONTROLLED IN CONFORMANCE WITH THE PROVISIONS OF SECTION 7, "LEGAL RELATIONS AND RESPONSIBILITY," OF THE STANDARD SPECIFICATIONS, COUNTY, AND LOCAL ORDINANCES. SEE SPECIAL PROVISIONS REGARDING SWEEPING REQUIREMENTS.

12. THE CONTRACTOR SHALL BE RESPONSIBLE FOR IMPLEMENTING ALL TEMPORARY EROSION CONTROL MEASURES. THE EROSION CONTROL MEASURES SHALL BE IN ACCORDANCE WITH THE TRPA "HANDBOOK OF BEST MANAGEMENT PRACTICES" AND THE STORM WATER POLLUTION PREVENTION PLAN (SWPPP). THE DOT SHALL CONTACT TRPA PRIOR TO THE COMMENCEMENT OF WORK FOR A PRE-GRADING INSPECTION OF THE INSTALLED TEMPORARY EROSION CONTROL FACILITIES. THE CONTRACTOR SHALL BE RESPONSIBLE FOR THE MAINTENANCE AND PERFORMANCE OF THE TEMPORARY EROSION CONTROL MEASURES THROUGHOUT THE DURATION OF THE PROJECT. SEE SPECIAL PROVISIONS REGARDING TEMPORARY EROSION CONTROL FACILITY REMOVAL.

13. CONSTRUCTION LIMITS SHOWN ON THE PLANS DELINEATE BOUNDARIES FOR THE CONTRACTOR'S OPERATIONS OUTSIDE THE COUNTY STREET RIGHT-OF-WAY. CONSTRUCTION LIMIT FENCING SHALL BE ERECTED ALONG THESE BOUNDARIES PRIOR TO COMMENCEMENT OF CONSTRUCTION. WITHIN THE CONSTRUCTION LIMITS, EXISTING VEGETATION SHALL BE PROTECTED TO THE EXTENT FEASIBLE. ALL EXISTING TREES SHALL BE PROTECTED UNLESS SHOWN ON THE PLANS TO BE REMOVED. SEE SPECIAL PROVISIONS REGARDING PAYMENT FOR TREE REMOVAL.

14. ALL REVEGETATION SHOWN ON THE PLANS IS TO BE COMPLETED BY OTHERS, UNLESS NOTED OTHERWISE.

15. THE CONTRACTOR SHALL USE ONLY DESIGNATED SPECIFIC SITES FOR STORAGE OF EQUIPMENT AND MATERIALS AS SHOWN ON THESE PLANS. THE CONTRACTOR SHALL BE RESPONSIBLE FOR THE SECURITY OF ALL EQUIPMENT AND MATERIALS.

16. IT IS THE RESPONSIBILITY OF THE CONTRACTOR AND HIS SUBCONTRACTOR(S) TO EXAMINE THE PROJECT SITE PRIOR TO THE OPENING OF BID PROPOSALS. THE CONTRACTOR SHALL BECOME FAMILIAR WITH THE CONDITIONS UNDER WHICH THE WORK IS TO BE PERFORMED, SUCH AS 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 PRIMARILY FOR AND DURING THE PERFORMANCE OF THE WORK, AND THE COSTS THEREOF. ANY FAILURE BY THE CONTRACTOR AND SUBCONTRACTOR(S) TO ACQUAINT HIMSELF WITH ALL THE AVAILABLE INFORMATION WILL NOT RELIEVE HIM FROM RESPONSIBILITY FOR PROPERLY ESTIMATING THE DIFFICULTY AND COST OF SUCCESSFULLY PERFORMING THE WORK.

17. ELEVATIONS SHOWN ON THE PLANS FOR PIPE INVERTS, TOPS OF GRATES, RIMS, CURBS, ETC., ARE BASED UPON THE TOPOGRAPHIC INFORMATION SHOWN ON THE PLANS. THE CONTRACTOR SHALL VERIFY ALL NECESSARY SURFACE ELEVATIONS IN THE FIELD AND NOTIFY THE DOT OF ANY DISCREPANCIES, WHICH MIGHT AFFECT PROPER OPERATION OF THE NEW FACILITIES BEFORE BREAKING GROUND AND PRIOR TO FACILITY INSTALLATION. THE DOT SHALL BE CONTACTED IN THE EVENT ELEVATIONS ARE INCORRECT SO THAT THE PROPER ADJUSTMENTS CAN BE MADE PRIOR TO THE INSTALLATION OF THE FACILITIES.

18. THE CONTRACTOR SHALL OBTAIN AT HIS OWN EXPENSE ALL PERMITS, LICENSES, INSURANCE POLICIES, ETC., NOT ALREADY OBTAINED BY DOT, AS MAY BE NECESSARY TO COMPLY WITH STATE AND LOCAL LAWS ASSOCIATED WITH THE PERFORMANCE OF THE WORK. SEE SPECIAL PROVISIONS.

19. THE CONTRACTOR IS RESPONSIBLE TO REVIEW THE CONTRACT DOCUMENTS FOR ALL SUBMITTALS REQUIRED FOR COUNTY REVIEW AND ACCEPTANCE.

20. THE COUNTY WILL FURNISH THE CONSTRUCTION STAKING TO THE CONTRACTOR AS SET FORTH IN THE SPECIAL PROVISIONS.

21. CONTRACTOR SHALL NOTE THAT THE PLANS SHOW SLOPE (ACTUAL) LENGTHS FOR PIPES 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 SPECIAL PROVISIONS FOR THE MAXIMUM ALLOWABLE DEFLECTION ANGLE AT EACH PIPE JOINT.

22. THE LIMITS OF GRADING BEHIND THE PROPOSED STRUCTURES ARE NOT SHOWN ON THE PLANS. THE CONTRACTOR IS RESPONSIBLE TO PLACE FILL AROUND THE STRUCTURES AS SHOWN ON THE DETAILS, CROSS SECTIONS, AND AS DIRECTED BY THE ENGINEER. SEE SPECIAL PROVISIONS FOR THE RAW EARTHWORK QUANTITIES ASSOCIATED WITH GRADING.

23. SEE SPECIAL PROVISIONS AND SHEETS G-1 ANG G-2 (BORING LOGS) FOR EXISTING SUBSURFACE INFORMATION.

ABBREVIATIONS

NOTE: LOWER CASE TEXT WITHIN PLAN SET INDICATES EXISTING

△	DELTA = DEFLECTION ANGLE	LP	LOW POINT
A	ASPEN	LT	LEFT
AB	AGGREGATE BASE	LTD	LAKE TAHOE DATUM
ABAND	ABANDONED	MISC	MISCELLANEOUS
AC	ASPHALT CONCRETE	MOC	MID POINT ON CURVE
ACS	ASPHALT CONCRETE SWALE	N	NORTH
ACP	ASBESTOS CEMENT PIPE	NIC	NOT IN CONTRACT
AP	ANGLE POINT	NTS	NOT TO SCALE
APN	ASSESSOR'S PARCEL NUMBER	OAE	OR APPROVED EQUAL
AV/AR	AIR VACUUM/AIR RELEASE VALVE	OC	ON CENTER
BC	BEGIN CURVE	OD	OUTSIDE DIAMETER
BCR	BEGIN CURB RETURN	OH	OVERHEAD
BGN	BEGIN	O/S	OVERSIDE
BLVD	BOULEVARD	P	PINE
BO	BLOW OFF	PC	POINT OF BEGINNING OF CURVE
BR	BOTTOM OF ROCK	PCC	PORTLAND CEMENT CONCRETE
BVCE	BEGIN VERTICAL CURVE ELEVATION	PERF	PERFORATED
BVCS	BEGIN VERTICAL CURVE STATION	PHDPE	PERFORATED HIGH DENSITY POLYETHYLENE
C	CEDAR	PL	PROPERTY LINE
C STA	CUL-DE-SAC STATIONING	POCC	POINT OF COMPOUND CURVE
CALC'S	CALCULATIONS	POCVCE	POINT OF COMPOUND VERTICAL CURVE ELEVATION
CC	CENTER TO CENTER	POCVCS	POINT OF COMPOUND VERTICAL CURVE STATION
CF	CUBIC FEET OR CURB FACE	POR	PORTION
CHD	CHORD DIRECTION	PORVCE	POINT OF REVERSE VERTICAL CURVE ELEVATION
CIR	CIRCLE	PORVCS	POINT OF REVERSE VERTICAL CURVE STATION
℄	CENTERLINE	PP	POWER/UTILITY POLE
CL	CLASS OR CENTERLINE	PRC	POINT OF REVERSE CURVE
CLF	CONSTRUCTION LIMIT FENCE	PROP	PROPOSED
CLR	CLEAR	PT	POINT OR POINT OF TANGENCY
CO	CURB OPENING	PUE	PUBLIC UTILITY EASEMENT
CO.	COUNTY	PVC	POLYVINYL CHLORIDE
CONC	CONCRETE	PVIE	POINT OF VERTICAL INTERSECTION ELEVATION
CONST	CONSTRUCT	PVIS	POINT OF VERTICAL INTERSECTION STATION
CMP	CORRUGATED METAL PIPE	R	RADIUS
CT	CALTRANS OR COURT	R&R	REMOVE & REPLACE
CTC	CALIFORNIA TAHOE CONSERVANCY	RC	RELATIVE COMPACTION
CY	CUBIC YARD	RCP	REINFORCED CONCRETE PIPE
C&G	CURB AND GUTTER	RD	ROAD
D	DEPTH	REF	REFERENCE
DB	DRAIN BASIN	REQ'D	REQUIRED
DBL	DOUBLE	RLC	ROCK-LINED CHANNEL
DET	DETAIL	ROW	RIGHT-OF-WAY
DI	DRAINAGE INLET OR DUCTILE IRON	RR	RAILROAD
DIA OR ⌀	DIAMETER	RSP	ROCK SLOPE PROTECTION
DISS	DISSIPATOR	RT	RIGHT
DOT	DEPARTMENT OF TRANSPORTATION	S	SOUTH OR SANITARY SEWER
DR	DRIVE	SCO	SEWER CLEAN OUT
D/W	DRIVEWAY	SD	STORM DRAIN
E	EAST	SDMH	STORM DRAIN MANHOLE
EA	EACH	SF	SQUARE FEET
EC	END OF CURVE	SHT	SHEET
ECR	END OF CURB RETURN	SL	SLOPE LENGTH
EG	EXISTING GRADE	SLI	SLOPE LENGTH IN PAVEMENT
ELEV	ELEVATION	SLO	SLOPE LENGTH OUT OF PAVEMENT
ELEC	ELECTRIC	SMH	SEWER MANHOLE
EP	EDGE OF PAVEMENT	SP	SPECIAL PROVISIONS
ESMT	EASEMENT	ST	SEDIMENT TRAP OR STREET
EVCE	END VERTICAL CURVE ELEVATION	STA	STATION
EVCS	END VERTICAL CURVE STATION	STD	STANDARD
EX	EXISTING	STL	STEEL
F	FIR	SWPPP	STORM WATER POLLUTION PREVENTION PLAN
FES	FLARED END SECTION	STPUD	SOUTH TAHOE PUBLIC UTILITY DISTRICT
FF	FILTER FENCE	T	TELEPHONE
FG	FINISHED GRADE	TBC	TOP BACK OF CURB
FH	FIRE HYDRANT	TBD	TOP BACK OF DIKE
FL	FLOWLINE	TD	TOP OF DIKE
FM	FORCE MAIN	TBM	TEMPORARY BENCHMARK
FMMH	FORCE MAIN MANHOLE	TBR	TO BE REMOVED
FS	FINISH SURFACE	TG	TOP OF GRATE
G	GAS	TR	TOP OF ROCK
GA	GAUGE	TRANS	TRANSITION
GB	GRADE BREAK	TRPA	TAHOE REGIONAL PLANNING AGENCY
GLS	GRASS-LINED SWALE	TTL	TOTAL
GV	GAS VALVE	TW	TOP OF WALL
H	HORIZONTAL	TYP	TYPICAL
HDPE	HIGH DENSITY POLYETHYLENE	UG	UNDERGROUND
HP	HIGH POINT	UKN	UNKNOWN
ID	INSIDE DIAMETER	USFS	UNITED STATES FOREST SERVICE
IE	INVERT ELEVATION	V	VERTICAL
INST	INSTALL	W	WEST OR WATER
INTRXN	INTERSECTION	W/	WITH
L	LENGTH	W/O	WITHOUT
LC	LENGTH OF CHORD	WC	WILLOW CLUSTER
LF	LINEAR FEET	WV	WATER VALVE

LEGEND

EXISTING	PROPOSED
(SCREENED AND/OR DASHED) EXISTING (AS NOTED)	CENTERLINE
RIGHT-OF-WAY LINE	SAWCUT (AS NOTED)
PROPERTY LINE	MISC PAVING (ROADWAY)
LIMITS OF TEMPORARY CONSTRUCTION EASEMENT	TIE-IN PAVEMENT (ROADWAY)
LAND CAPABILITY BOUNDARY	AC REMOVE (ROADWAY)
SEZ SETBACK	AC REMOVE & RESTORE
ROCK	AC D/W REMOVE & REPLACE
XXXX.X ELEVATION	MISCELLANEOUS GRADING
smh SEWER MANHOLE	XXXX.XX ELEVATION
sco SEWER CLEAN OUT	XXXX.XX / XXXX.X / XXXX.XX ELEVATION, LT, EG CL, RT (PROFILE ONLY)
DRAINAGE INLET	ROLLED C&G
gm GAS METER	SEDIMENT TRAP OR DRAIN BASIN
wv WATER VALVE	DRAINAGE INLET
WATER METER	CUT OR FILL SLOPE
MONITORING WELL	DETAIL REF NUMBER SHEET NUMBER
—w— WATER LINE	ROCK
—s— SEWER LINE	△/4 ONE-QUARTER DELTA
—g— GAS LINE	SD PIPE, (MATERIAL AS NOTED)
—fm— SEWER FORCE MAIN	— FF — CLF — FILTER FENCE OR CONSTRUCTION LIMIT FENCE
—sd— STORM DRAIN	SD MANHOLE
—oh— OVERHEAD ELECTRIC	FLARED END SECTION
POWER/UTILITY POLE	#:# SLOPE RATIO, H:V
UTILITY POLE & GUY ANCHOR	ROCK LINED CHANNEL
FIRE HYDRANT	GRASS LINED SWALE
AC DIKE	GRASS LINED SWALE (PROFILE)
RETAINING WALL	TREE REMOVAL
OVERSLOPE DRAIN	FLOWLINE
PINE 28 TREE, TYPE AND DIAMETER	
stump 28 STUMP, DIAMETER	
WILLOW CLUSTER	

UTILITIES

CABLE TELEVISION	CHARTER COMMUNICATIONS, (775) 588-1077
NATURAL GAS	SOUTHWEST GAS, (530) 543-3225
ELECTRIC	SIERRA PACIFIC POWER COMPANY, (530) 541-6400
SEWER & WATER	TAHOE CITY PUD, (530) 583-3796
TELEPHONE	ATT, (530) 888-2031
STORM DRAIN	EL DORADO COUNTY DOT, (530) 573-3180

REVISION

NUMBER	DATE	DESCRIPTION	BY

REGISTERED PROFESSIONAL ENGINEER STEVE PETER KOOYMAN No. 55757 Exp. 12-31-10 CIVIL STATE OF CALIFORNIA

PREPARED UNDER THE SUPERVISION OF :

REGISTERED CIVIL ENGINEER DATE:

DESIGNED: RW	DRAWN: JTC
CHECKED: DWK	DATE: 04/2010
ROAD NUMBER: ####	

EL DORADO COUNTY
DEPARTMENT OF TRANSPORTATION

RUBICON 5 EROSION CONTROL PROJECT
GENERAL NOTES, ABBREVIATIONS, AND LEGEND

SHEET ii
2 OF 26
CONTRACT NO. **PW 09-30490**
CIP No. **95178**

FOR REDUCED PLANS 0 1 2 ORIGINAL SCALE IS IN INCHES Drawing name: S:\CIVIL 3D PROJECTS\95178\Engineering\MPLAN\PL_Index.dwg

REVISION			
NUMBER	DATE	DESCRIPTION	BY

REGISTERED PROFESSIONAL ENGINEER PETER KOCHAN No. 55757 Exp. 12-31-10 CIVIL STATE OF CALIFORNIA

PREPARED UNDER THE SUPERVISION OF :

REGISTERED CIVIL ENGINEER

DATE:

DESIGNED:	DRAWN:
RW	JTC
CHECKED:	DATE:
DWK	04/2010
ROAD NUMBER:	
####	

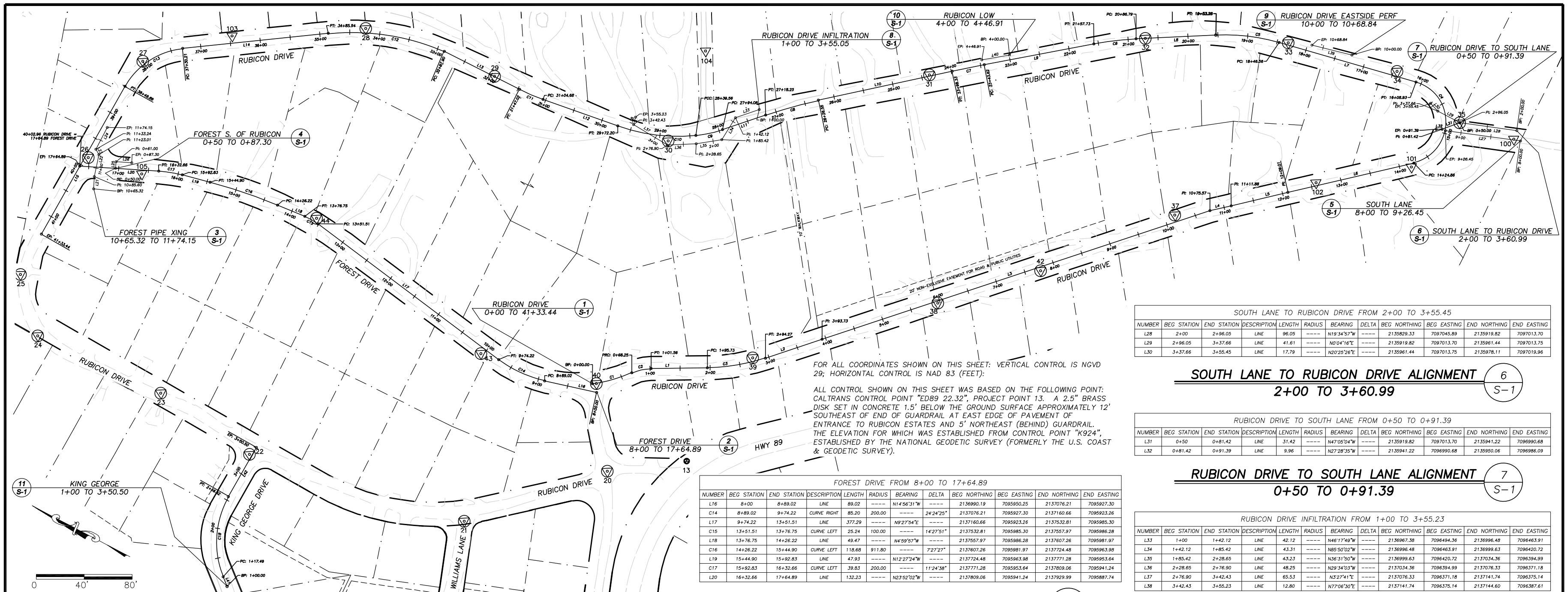
EL DORADO COUNTY
DEPARTMENT OF TRANSPORTATION

RUBICON 5 EROSION CONTROL PROJECT
SHEET INDEX

SHEET iii
3 OF 26
CONTRACT NO. PW 09-30490
CIP No. 95178

10-0160.C.3

FOR REDUCED PLANS 0 1 2 ORIGINAL SCALE IS IN INCHES
Drawing name: S:\CIVIL 3D PROJECTS\95178\Engineering\MPLAN\S-1 SURVEY AND CONTROL.dwg



FOR ALL COORDINATES SHOWN ON THIS SHEET: VERTICAL CONTROL IS NGVD 29; HORIZONTAL CONTROL IS NAD 83 (FEET):

ALL CONTROL SHOWN ON THIS SHEET WAS BASED ON THE FOLLOWING POINT: CALTRANS CONTROL POINT "ED89 22.32", PROJECT POINT 13. A 2.5" BRASS DISK SET IN CONCRETE 1.5' BELOW THE GROUND SURFACE APPROXIMATELY 12' SOUTHEAST OF END OF GUARDRAIL AT EAST EDGE OF PAVEMENT OF ENTRANCE TO RUBICON ESTATES AND 5' NORTHEAST (BEHIND) GUARDRAIL. THE ELEVATION FOR WHICH WAS ESTABLISHED FROM CONTROL POINT "K924", ESTABLISHED BY THE NATIONAL GEODETIC SURVEY (FORMERLY THE U.S. COAST & GEODETIC SURVEY).

CONTROL POINT LIST

NUMBER	NORTHING	EASTING	ELEVATION	DESCRIPTION
[illegible]	[illegible]	[illegible]	[illegible]	[illegible]

RUBICON DRIVE FROM 0+00 TO 41+33.44

NUMBER	BEG STATION	END STATION	DESCRIPTION	LENGTH	RADIUS	BEARING	DELTA	BEG NORTHING	BEG EASTING	END NORTHING	END EASTING
C1	0+00	0+68.25	CURVE LEFT	68.25	219.92	----	17°46'49"	2137003.19	7095959.63	2136953.59	7096006.11
C2	0+68.25	1+01.56	CURVE RIGHT	33.31	79.96	----	23°52'00"	2136953.59	7096006.11	2136928.29	7096027.41
L1	1+01.56	1+95.73	LINE	94.17	----	S28°09'57"E	----	2136928.29	7096027.41	2136845.27	7096071.87
C3	1+95.73	2+94.27	CURVE LEFT	98.54	319.89	----	17°39'00"	2136845.27	7096071.87	2136766.87	7096130.92
L2	2+94.27	3+93.73	LINE	99.46	----	S45°48'57"E	----	2136766.87	7096130.92	2136697.56	7096202.24
L3	3+93.73	10+75.57	LINE	681.84	----	S45°49'01"E	----	2136697.56	7096202.24	2136222.35	7096691.20
L4	10+75.57	11+11.88	LINE	36.31	----	S40°35'57"E	----	2136222.35	7096691.20	2136194.78	7096714.83
L5	11+11.88	12+09.01	LINE	97.13	----	S40°35'57"E	----	2136194.78	7096714.83	2136121.02	7096778.04
L6	12+09.01	14+24.86	LINE	215.84	----	S40°35'57"E	----	2136121.02	7096778.04	2135957.14	7096918.51
C4	14+24.86	16+08.93	CURVE LEFT	184.07	69.98	----	150°42'18"	2135957.14	7096918.51	2136016.40	7097040.26
L7	16+08.93	18+46.56	LINE	237.63	----	N11°18'15"W	----	2136016.40	7097040.26	2136249.42	7096993.68
C5	18+46.56	19+53.26	CURVE LEFT	106.71	322.92	----	18°56'00"	2136249.42	7096993.68	2136348.74	7096956.01
L8	19+53.26	20+86.79	LINE	133.52	----	N30°14'15"W	----	2136348.74	7096956.01	2136464.09	7096888.78
C6	20+86.79	21+57.73	CURVE LEFT	70.95	506.54	----	8°01'31"	2136464.09	7096888.78	2136522.69	7096848.88
L9	21+57.73	23+43.62	LINE	185.89	----	N38°15'46"W	----	2136522.69	7096848.88	2136668.64	7096733.76
C7	23+43.62	23+98.33	CURVE LEFT	54.71	2178.01	----	1°26'21"	2136668.64	7096733.76	2136711.17	7096699.35
L10	23+98.33	26+26.55	LINE	228.22	----	N39°42'07"W	----	2136711.17	7096699.35	2136886.76	7096553.56
C8	26+26.55	27+18.25	CURVE LEFT	91.70	796.66	----	6°35'42"	2136886.76	7096553.56	2136953.79	7096491.06
L11	27+18.25	27+94.08	LINE	75.83	----	N46°17'49"W	----	2136953.79	7096491.06	2137006.18	7096436.24
C9	27+94.08	28+39.56	CURVE RIGHT	45.47	200.00	----	13°01'38"	2137006.18	7096436.24	2137041.05	7096407.20
C10	28+39.56	29+72.20	CURVE RIGHT	132.65	296.44	----	25°38'15"	2137041.05	7096407.20	2137164.30	7096361.24
L12	29+72.20	31+04.68	LINE	132.47	----	N8°04'05"W	----	2137164.30	7096361.24	2137295.46	7096342.65
C11	31+04.68	31+47.02	CURVE RIGHT	42.35	321.83	----	7°32'21"	2137295.46	7096342.65	2137337.66	7096339.48
L13	31+47.02	32+87.90	LINE	140.87	----	N0°31'44"W	----	2137337.66	7096339.48	2137478.53	7096338.18
C12	32+87.90	34+85.94	CURVE LEFT	198.04	387.69	----	29°16'05"	2137478.53	7096338.18	2137664.09	7096275.37
L14	34+85.94	37+30.21	LINE	244.27	----	N33°20'05"W	----	2137664.09	7096275.37	2137868.16	7096141.13
C13	37+30.21	38+49.86	CURVE LEFT	119.65	125.45	----	54°38'51"	2137868.16	7096141.13	2137924.60	7096040.75
L15	38+49.86	41+33.44	LINE	283.59	----	N87°58'57"W	----	2137924.60	7096040.75	2137934.58	7095757.33

RUBICON DRIVE ALIGNMENT
0+00 TO 41+33.44
1 S-1

FOREST DRIVE FROM 8+00 TO 17+64.89

NUMBER	BEG STATION	END STATION	DESCRIPTION	LENGTH	RADIUS	BEARING	DELTA	BEG NORTHING	BEG EASTING	END NORTHING	END EASTING
L16	8+00	8+89.02	LINE	89.02	----	N14°56'31"W	----	2136990.19	7095950.25	2137076.21	7095927.30
C14	8+89.02	9+74.22	CURVE RIGHT	85.20	200.00	----	24°24'25"	2137076.21	7095927.30	2137160.66	7095923.26
L17	9+74.22	13+51.51	LINE	377.29	----	N9°27'54"E	----	2137160.66	7095923.26	2137532.81	7095985.30
C15	13+51.51	13+76.75	CURVE LEFT	25.24	100.00	----	14°27'51"	2137532.81	7095985.30	2137557.97	7095986.28
L18	13+76.75	14+26.22	LINE	49.47	----	N4°59'57"W	----	2137557.97	7095986.28	2137607.26	7095981.97
C16	14+26.22	15+44.90	CURVE LEFT	118.68	911.80	----	7°27'27"	2137607.26	7095981.97	2137724.48	7095963.98
L19	15+44.90	15+92.83	LINE	47.93	----	N12°27'24"W	----	2137724.48	7095963.98	2137771.28	7095953.64
C17	15+92.83	16+32.66	CURVE LEFT	39.83	200.00	----	11°24'38"	2137771.28	7095953.64	2137809.06	7095941.24
L20	16+32.66	17+64.89	LINE	132.23	----	N23°52'02"W	----	2137809.06	7095941.24	2137929.99	7095887.74

FOREST DRIVE ALIGNMENT
8+00 TO 17+64.89
2 S-1

FOREST PIPE XING FROM 10+65.32 TO 11+74.15

NUMBER	BEG STATION	END STATION	DESCRIPTION	LENGTH	RADIUS	BEARING	DELTA	BEG NORTHING	BEG EASTING	END NORTHING	END EASTING
L21	10+65.32	10+85.60	LINE	20.28	----	N65°49'22"E	----	2137891.98	7095864.80	2137900.29	7095883.30
L22	10+85.60	11+23.01	LINE	37.41	----	N73°57'33"E	----	2137900.29	7095883.30	2137910.63	7095919.26
L23	11+23.01	11+33.24	LINE	10.22	----	N35°03'10"E	----	2137910.63	7095919.26	2137919.00	7095925.13
L24	11+33.24	11+74.15	LINE	40.91	----	N89°44'38"E	----	2137919.00	7095925.13	2137919.18	7095966.04

FOREST PIPE XING ALIGNMENT
10+65.32 TO 11+74.15
3 S-1

FOREST SOUTH OF RUBICON FROM 0+50 TO 0+87.30

NUMBER	BEG STATION	END STATION	DESCRIPTION	LENGTH	RADIUS	BEARING	DELTA	BEG NORTHING	BEG EASTING	END NORTHING	END EASTING
L25	0+56.50	0+61	LINE	11.00	----	N66°07'58"E	----	2137877.78	7095917.94	2137879.60	7095922.06
L26	0+61	0+87.30	LINE	26.30	----	S23°52'02"E	----	2137879.60	7095922.06	2137855.56	7095932.70

FOREST SOUTH OF RUBICON ALIGNMENT
0+50 TO 0+87.30
4 S-1

SOUTH LANE FROM 8+00 TO 9+26.45

NUMBER	BEG STATION	END STATION	DESCRIPTION	LENGTH	RADIUS	BEARING	DELTA	BEG NORTHING	BEG EASTING	END NORTHING	END EASTING
L27	8+00	9+26.45	LINE	126.45	----	N19°34'57"W	----	2135816.23	7097033.30	2135935.36	7096990.92

SOUTH LANE ALIGNMENT
8+00 TO 9+26.45
5 S-1

SOUTH LANE TO RUBICON DRIVE FROM 2+00 TO 3+55.45

NUMBER	BEG STATION	END STATION	DESCRIPTION	LENGTH	RADIUS	BEARING	DELTA	BEG NORTHING	BEG EASTING	END NORTHING	END EASTING
L28	2+00	2+96.05	LINE	96.05	----	N19°34'57"W	----	2135829.33	7097045.89	2135919.82	7097013.70
L29	2+96.05	3+37.66	LINE	41.61	----	N0°04'16"E	----	2135919.82	7097013.70	2135961.44	7097013.75
L30	3+37.66	3+55.45	LINE	17.79	----	N20°25'26"E	----	2135961.44	7097013.75	2135978.11	7097019.96

SOUTH LANE TO RUBICON DRIVE ALIGNMENT
2+00 TO 3+60.99
6 S-1

RUBICON DRIVE TO SOUTH LANE FROM 0+50 TO 0+91.39

NUMBER	BEG STATION	END STATION	DESCRIPTION	LENGTH	RADIUS	BEARING	DELTA	BEG NORTHING	BEG EASTING	END NORTHING	END EASTING
L31	0+50	0+81.42	LINE	31.42	----	N47°05'04"W	----	2135919.82	7097013.70	2135941.22	7096990.68
L32	0+81.42	0+91.39	LINE	9.96	----	N27°28'35"W	----	2135941.22	7096990.68	2135950.06	7096986.09

RUBICON DRIVE TO SOUTH LANE ALIGNMENT
0+50 TO 0+91.39
7 S-1

RUBICON DRIVE INFILTRATION FROM 1+00 TO 3+55.23

NUMBER	BEG STATION	END STATION	DESCRIPTION	LENGTH	RADIUS	BEARING	DELTA	BEG NORTHING	BEG EASTING	END NORTHING	END EASTING
L33	1+00	1+42.12	LINE	42.12	----	N46°17'49"W	----	2136967.38	7096494.36	2136996.48	7096463.91
L34	1+42.12	1+85.42	LINE	43.31	----	N85°50'02"W	----	2136996.48	7096463.91	2136999.63	7096420.72
L35	1+85.42	2+28.65	LINE	43.23	----	N36°31'50"W	----	2136999.63	7096420.72	2137034.36	7096394.99
L36	2+28.65	2+76.90	LINE	48.25	----	N29°34'03"W	----	2137034.36	7096394.99	2137076.33	7096371.18
L37	2+76.90	3+42.43	LINE	65.53	----	N3°27'41"E	----	2137076.33	7096371.18	2137141.74	7096375.14
L38	3+42.43	3+55.23	LINE	12.80	----	N77°06'30"E	----	2137141.74	7096375.14	2137144.60	7096387.61

RUBICON DRIVE INFILTRATION ALIGNMENT
1+00 TO 3+55.05
8 S-1

RUBICON DRIVE – EASTSIDE_PERF FROM 10+00 TO 10+68.84

NUMBER	BEG STATION	END STATION	DESCRIPTION	LENGTH	RADIUS	BEARING	DELTA	BEG NORTHING	BEG EASTING	END NORTHING	END EASTING
L39	10+00	10+68.84	LINE	68.84	----	N13°18'45"W	----	2136131.64	7097031.02	2136198.63	7097015.17

RUBICON DRIVE EASTSIDE PERF ALIGNMENT
10+00 TO 10+68.84
9 S-1

RUBICON LOW FROM 4+00 TO 4+46.91

NUMBER	BEG STATION	END STATION	DESCRIPTION	LENGTH	RADIUS	BEARING	DELTA	BEG NORTHING	BEG EASTING	END NORTHING	END EASTING
L40	4+00	4+46.91	LINE	46.91	----	N37°33'52"W	----	2136638.89	7096767.41	2136676.07	7096738.82

RUBICON LOW ALIGNMENT
4+00 TO 4+46.91
10 S-1

KING GEORGE FROM 1+00 TO 3+50.50

NUMBER	BEG STATION	END STATION	DESCRIPTION	LENGTH	RADIUS	BEARING	DELTA	BEG NORTHING	BEG EASTING	END NORTHING	END EASTING
L41	1+00	1+17.49	LINE	17.49	----	N40°17'04"E	----	2137388.03	7095378.32	2137401.38	7095389.63
C18	1+17.49	2+56.52	CURVE RIGHT	139.03	153.39	----	51°55'52"	2137401.38	7095389.63	2137455.48	7095512.57
L42	2+56.52	3+50.50	LINE	93.98	----	S87°47'04"E	----	2137455.48	7095512.57	2137451.84	7095606.49

KING GEORGE ALIGNMENT
1+00 TO 3+50.50
11 S-1

REVISION — NUMBER | DATE | DESCRIPTION | BY

REGISTERED PROFESSIONAL ENGINEER — STEVE PETER KOOYMAN — No. 55757 — Exp. 12-31-10 — CIVIL — STATE OF CALIFORNIA

PREPARED UNDER THE SUPERVISION OF :
REGISTERED CIVIL ENGINEER
DATE:

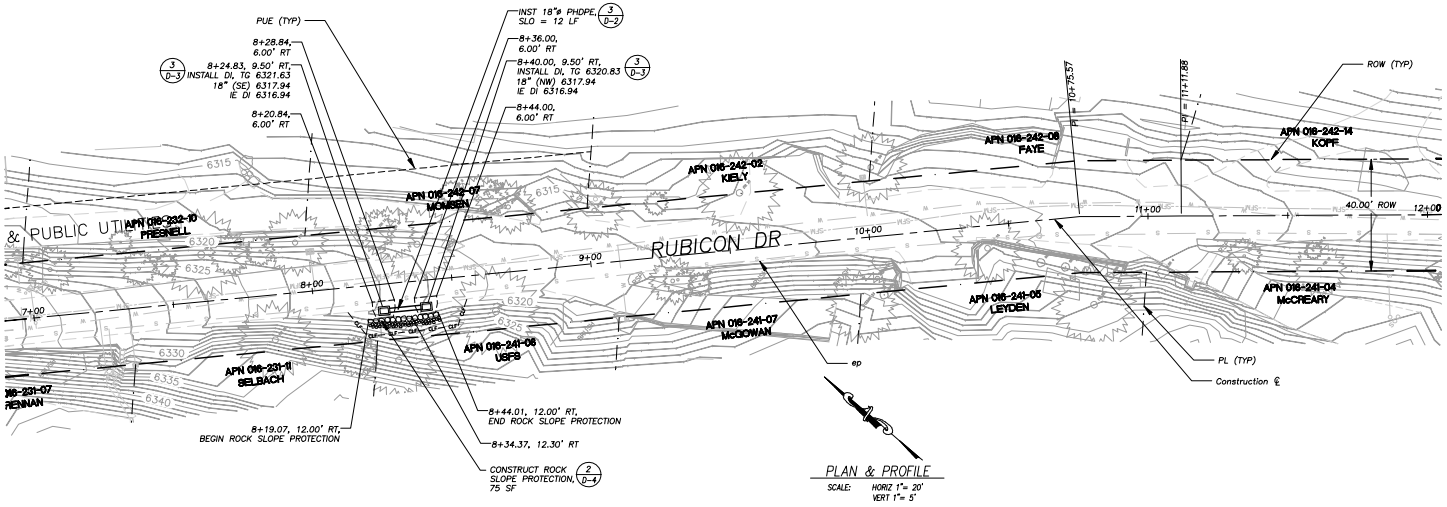
DESIGNED: RW — DRAWN: JTC
CHECKED: DWK — DATE: 04/2010
ROAD NUMBER: ####

EL DORADO COUNTY
DEPARTMENT OF TRANSPORTATION

RUBICON 5 EROSION CONTROL PROJECT
SURVEY ALIGNMENTS AND CONTROL POINT LISTING

SHEET S-1
4 of 26
CONTRACT NO. PW 09-30490
CIP No. 95178

10-0160.C.4

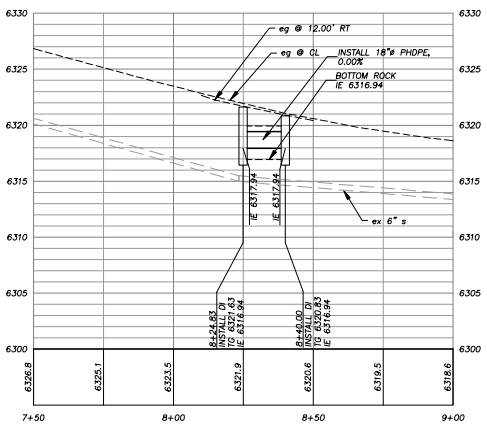


PLAN & PROFILE

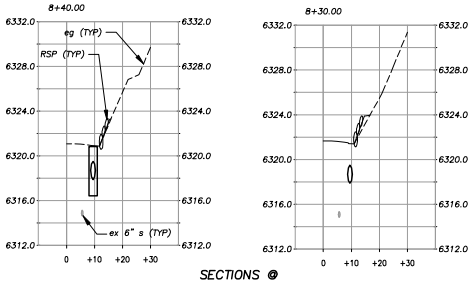
SCALE: HORIZ 1"= 20' VERT 1"= 5'

!! 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.



SD PROFILE @ 8+21 RUBICON DRIVE



SECTIONS @ RUBICON DRIVE

FOR REDUCED PLANS 0 1 2 ORIGINAL SCALE IS IN INCHES

Drawing name: S:\CIVIL 3D PROJECTS\95178\Engineering\MP\MP\RB5_P1.dwg

REVISION			
NUMBER	DATE	DESCRIPTION	BY

REGISTERED PROFESSIONAL ENGINEER STEVE PETER KOMPERS No. 55757 Exp. 12-31-10 CIVIL STATE OF CALIFORNIA

PREPARED UNDER THE SUPERVISION OF :

REGISTERED CIVIL ENGINEER

DATE:

DESIGNED:	DRAWN:
RW	JTC
CHECKED:	DATE:
DWK	04/2010
ROAD NUMBER:	
####	

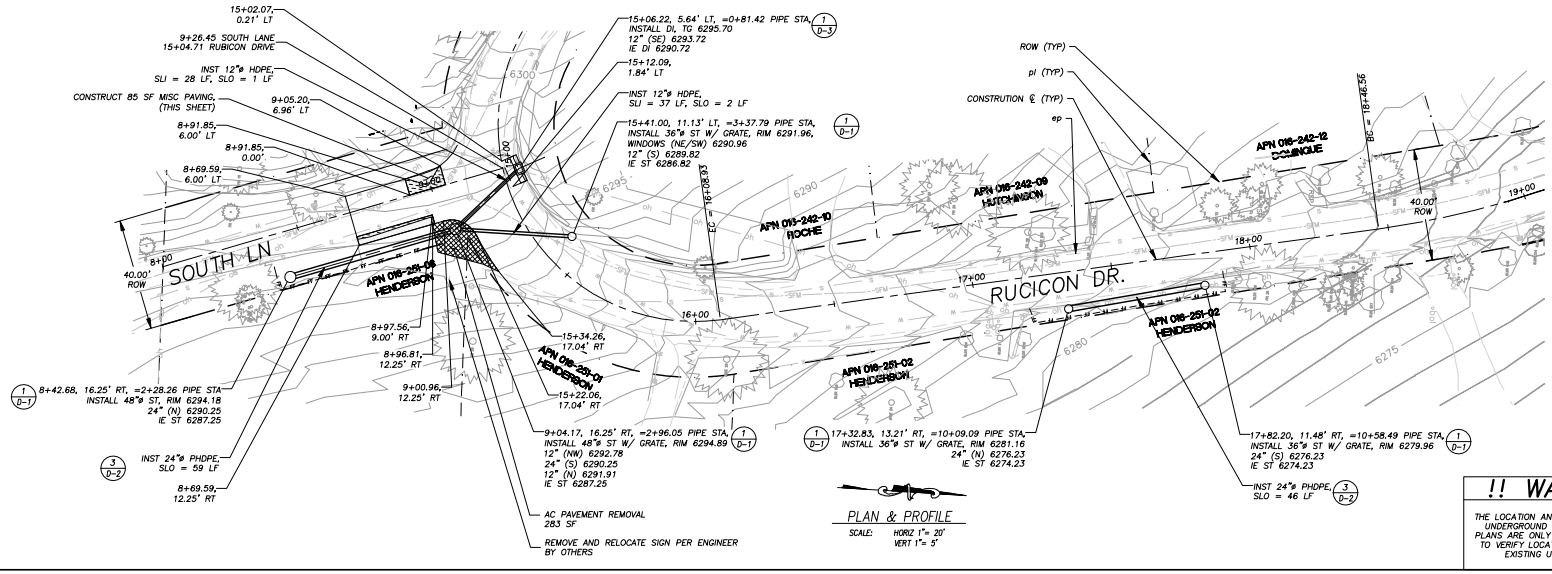
EL DORADO COUNTY
DEPARTMENT OF TRANSPORTATION

RUBICON 5 EROSION CONTROL PROJECT
RUBICON DRIVE PLAN & PROFILE
STA 7+00.00 TO STA 12+00.00

SHEET P-1
5 OF 26

CONTRACT NO. PW 09-30490
OP No. 95178

10-0160.C.5



PLAN & PROFILE

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

!! WARNING !!

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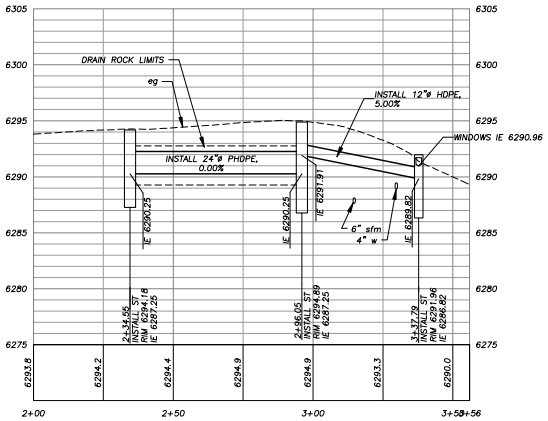
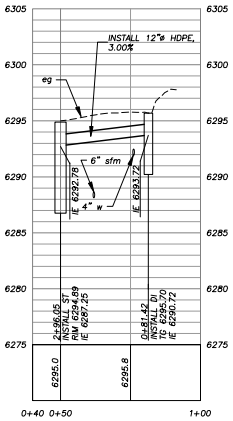
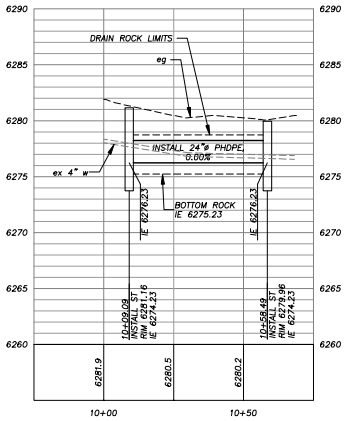


SD PROFILE @
8+36 SOUTH LANE



SD PROFILE @
15+06 RUBICON DRIVE



SD PROFILE @
17+32 RUBICON DRIVE

REVISION			
NUMBER	DATE	DESCRIPTION	BY

PREPARED UNDER THE SUPERVISION OF :

REGISTERED CIVIL ENGINEER

DATE:

DESIGNED: RW	DRAWN: JTC
CHECKED: DWK	DATE: 04/2010
ROAD NUMBER: ####	

EL DORADO COUNTY
DEPARTMENT OF TRANSPORTATION

RUBICON 5 EROSION CONTROL PROJECT
RUBICON DR/SOUTH LANE PLAN & PROFILE
STA 15+00.00 TO STA 19+00.00

SHEET P-2
6 OF 26
CONTRACT NO. PW 09-30490
CIP No. 95178

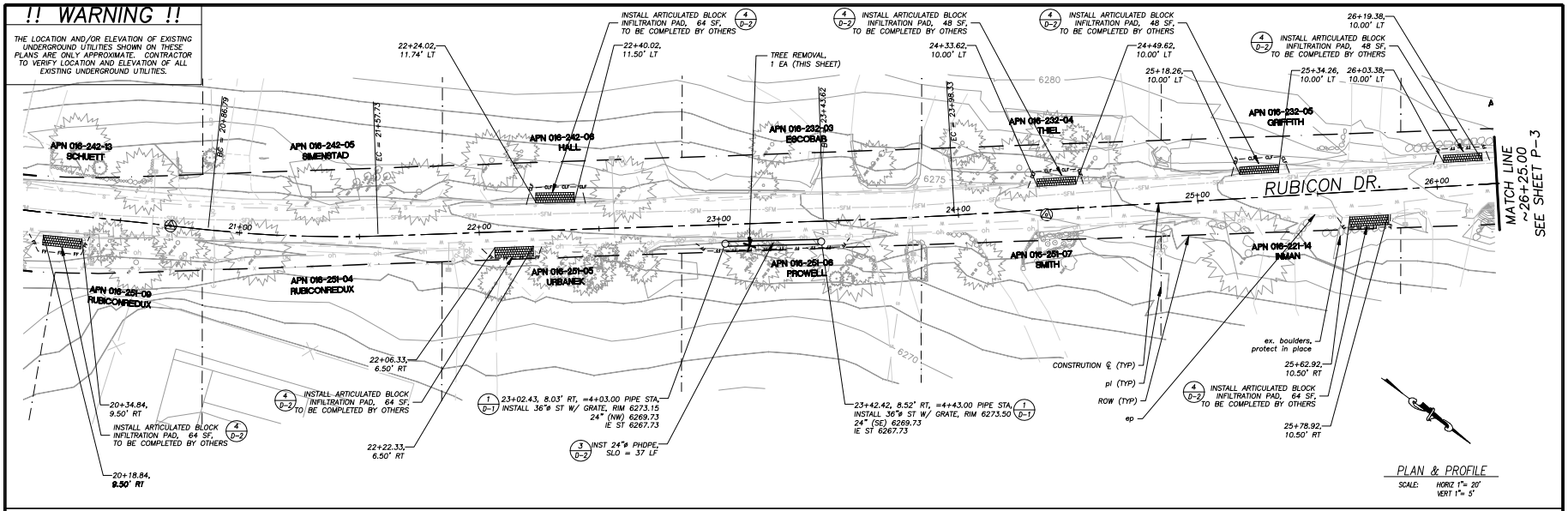
FOR REDUCED PLANS 0 1 2 ORIGINAL SCALE IS IN INCHES

Drawing name: S:\CIVIL 3D PROJECTS\RUBICON\Engineering\MAPS\RUBIC_P2.dwg

10-0160.C.6

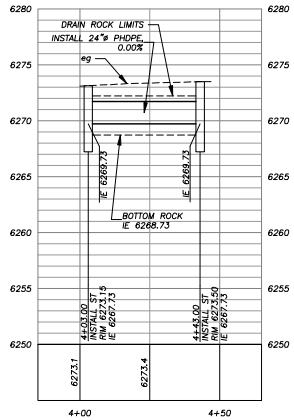
!! WARNING !!

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.



PLAN & PROFILE

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



SD PROFILE @ 23+02 RUBICON DRIVE

FOR REDUCED PLANS 0 1 2 ORIGINAL SCALE IS IN INCHES

Drawing name: S:\CIVIL 3D PROJECTS\95178\Engineering\MP-MN\95178_P3.dwg

REVISION			
NUMBER	DATE	DESCRIPTION	BY

REGISTERED PROFESSIONAL ENGINEER STEVEN PETER ROMANO No. 56757 Exp. 12-31-10 CIVIL STATE OF CALIFORNIA

PREPARED UNDER THE SUPERVISION OF :

REGISTERED CIVIL ENGINEER

DATE:

DESIGNED:	DRAWN:
RW	JTC
CHECKED:	DATE:
DWK	04/2010
ROAD NUMBER:	
####	

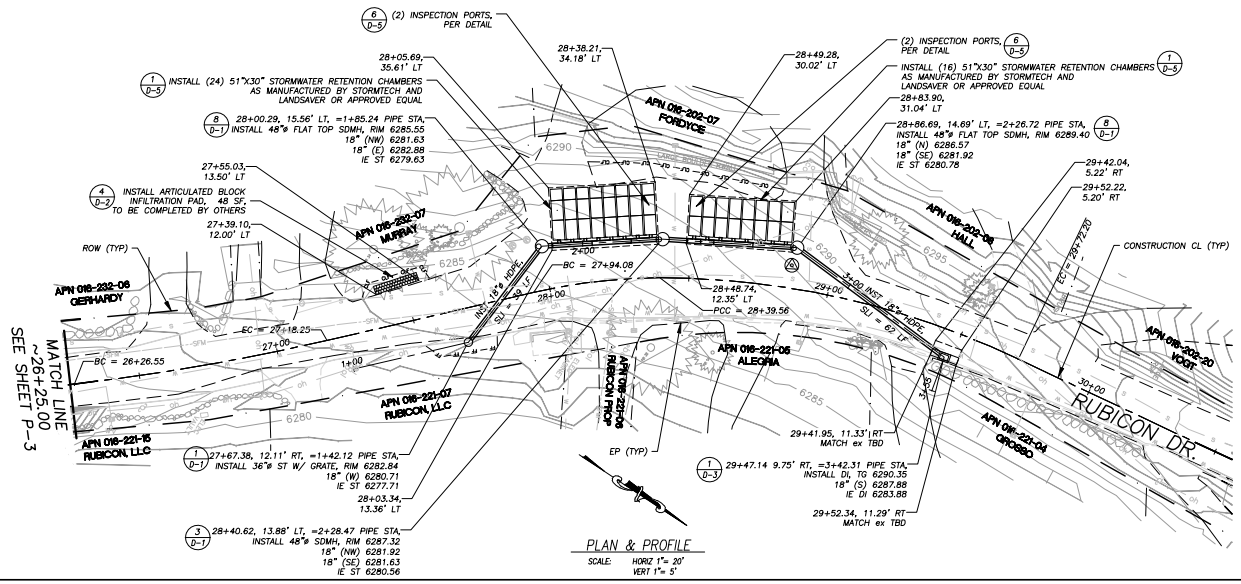
EL DORADO COUNTY
DEPARTMENT OF TRANSPORTATION

RUBICON 5 EROSION CONTROL PROJECT
RUBICON DRIVE PLAN & PROFILE
STA 20+00.00 TO STA 26+25.00

SHEET P-3 7 OF 26

CONTRACT NO. PW 09-30490
CIP No. 95178

10-0160.C.7

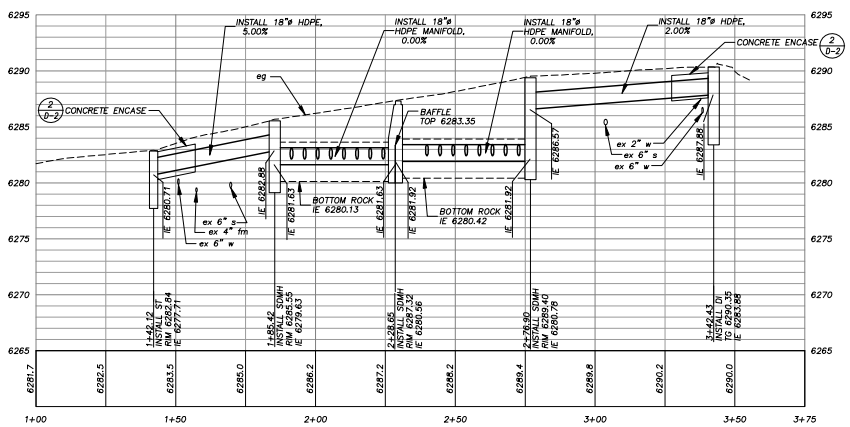


PLAN & PROFILE

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

!! 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.



SD PROFILE @ 27+67.98 RUBICON DRIVE

FOR REDUCED PLANS 0 1 2 ORIGINAL SCALE IS IN INCHES

Drawing name: S:\CIVIL 3D PROJECTS\DESIGN\Engineering\DWK\RUBICON_P4.dwg

REVISION			
NUMBER	DATE	DESCRIPTION	BY

REGISTERED PROFESSIONAL ENGINEER STEVE PETER KOCHAN No. 55757 Exp. 12-31-10 CIVIL STATE OF CALIFORNIA

PREPARED UNDER THE SUPERVISION OF :

REGISTERED CIVIL ENGINEER

DATE:

DESIGNED:	DRAWN:
RW	JTC
CHECKED:	DATE:
DWK	04/2010
ROAD NUMBER:	
####	

EL DORADO COUNTY
DEPARTMENT OF TRANSPORTATION

RUBICON 5 EROSION CONTROL PROJECT
RUBICON DRIVE PLAN AND PROFILE
STA 26+25.00 TO STA 30+25.00

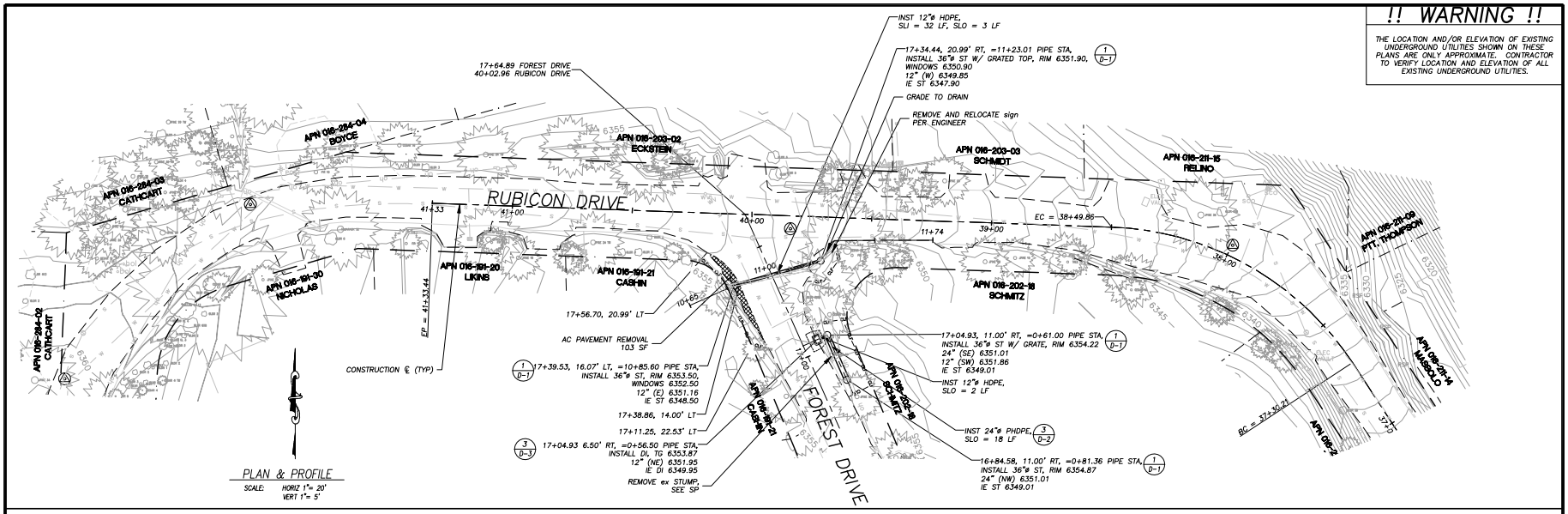
SHEET P-4 8 OF 26

CONTRACT NO. PW 09-30490
CIP No. 95178

10-0160.C.8

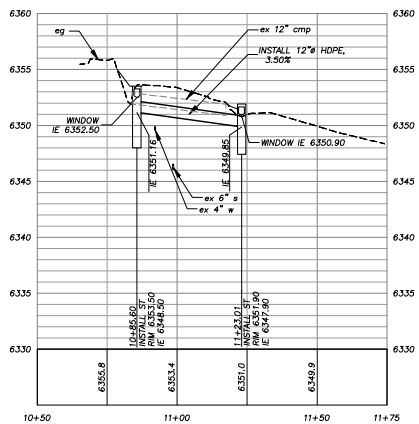
!! WARNING !!

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.

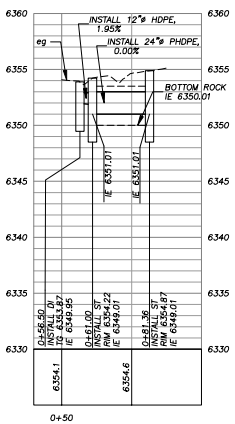


PLAN & PROFILE

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



SD PROFILE @
17+39.53 FOREST DRIVE



SD PROFILE @
16+84.58 FOREST DRIVE

FOR REDUCED PLANS 0 1 2 ORIGINAL SCALE IS IN INCHES

Drawing name: S:\CIVIL 3D PROJECTS\RUW\Engineering\RUW-MAIN\RUBICON_P5.dwg

REVISION			
NUMBER	DATE	DESCRIPTION	BY

REGISTERED PROFESSIONAL ENGINEER — STEVE PETER ROGNER — R.E. No. 55757 — Exp. 12-31-10 — CIVIL — STATE OF CALIFORNIA

PREPARED UNDER THE SUPERVISION OF :

REGISTERED CIVIL ENGINEER

DATE:

DESIGNED: RW	DRAWN: JTC
CHECKED: DWK	DATE: 04/2010
ROAD NUMBER: ####	

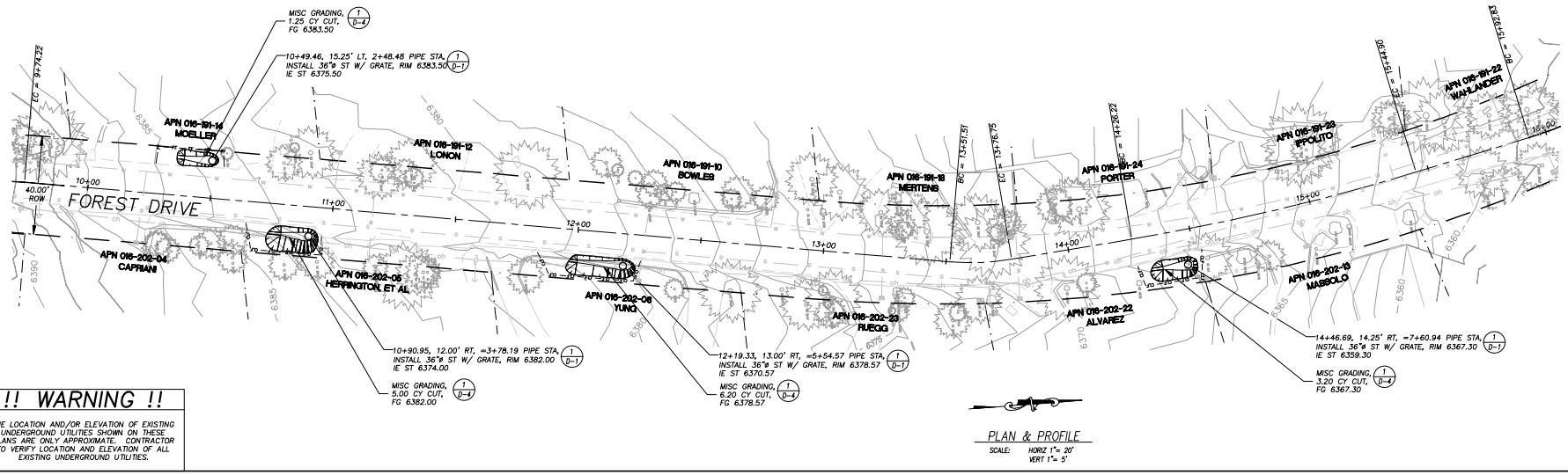
EL DORADO COUNTY
DEPARTMENT OF TRANSPORTATION

RUBICON 5 EROSION CONTROL PROJECT
FOREST DRIVE PLAN AND PROFILE
STA 16+75.00 TO STA 17+64.89

SHEET P-5 9 OF 26

CONTRACT NO. PW 09-30490
CP No. 95178

10-0160.C.9

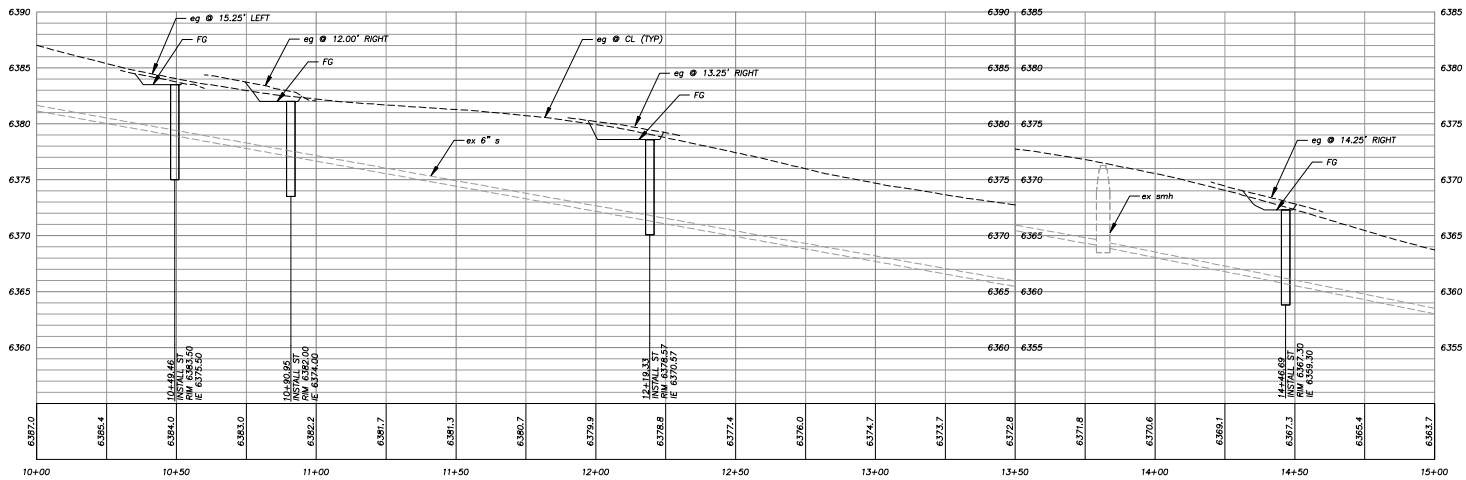


!! WARNING !!

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.

PLAN & PROFILE

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



SD CL PROFILE
@ FOREST DRIVE

REVISION			
NUMBER	DATE	DESCRIPTION	BY

REGISTERED PROFESSIONAL ENGINEER DAVID WESTER DOCKS No. 56757 Exp. 12-31-10 CIVIL STATE OF CALIFORNIA

PREPARED UNDER THE SUPERVISION OF :

REGISTERED CIVIL ENGINEER

DATE:

DESIGNED: RW	DRAWN: JTC
CHECKED: DWK	DATE: 04/2010
ROAD NUMBER: ####	

EL DORADO COUNTY
DEPARTMENT OF TRANSPORTATION

RUBICON 5 EROSION CONTROL PROJECT
FOREST DRIVE PLAN & PROFILE
STA 9+75.00 TO STA 16+00.00

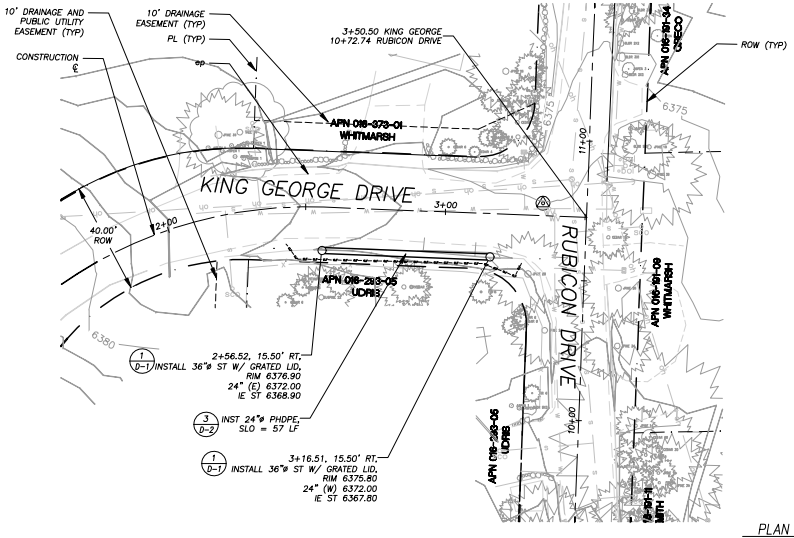
SHEET P-6
10 of 26

CONTRACT NO. PW 09-30490
CIP No. 95178

FOR REDUCED PLANS 0 1 2 ORIGINAL SCALE IS IN INCHES

Drawing name: S:\CIVIL 3D PROJECTS\95178\Engineering\MAP\MAP\95178_P6.dwg

10-0160.C.10

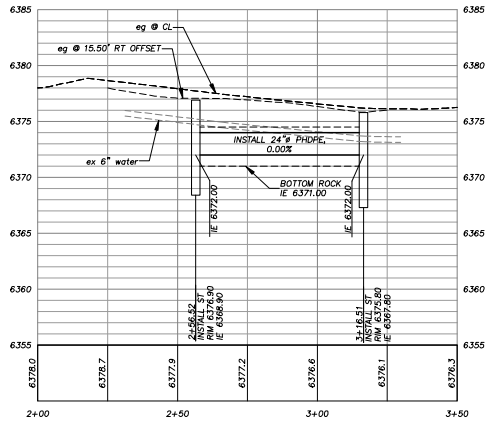


PLAN & PROFILE

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

!! 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.



SD PROFILE @
2+56 KING GEORGE DRIVE

ORIGINAL SCALE IS IN INCHES

FOR REDUCED PLANS 0 1 2

Drawing name: S:\CIVIL 3D PROJECTS\RIVER\Engineering\WP-MV\RUBS_P7.dwg

REVISION			
NUMBER	DATE	DESCRIPTION	BY

REGISTERED PROFESSIONAL ENGINEER PETER ROMANO No. 56757 Exp. 12-31-10 CIVIL STATE OF CALIFORNIA

PREPARED UNDER THE SUPERVISION OF :

REGISTERED CIVIL ENGINEER

DATE:

DESIGNED: RW	DRAWN: JTC
CHECKED: DWK	DATE: 04/2010
ROAD NUMBER: ####	

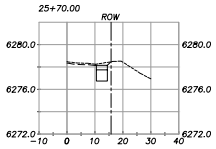
EL DORADO COUNTY
DEPARTMENT OF TRANSPORTATION

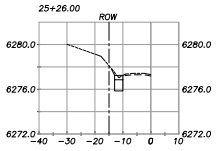
RUBICON 5 EROSION CONTROL PROJECT
KING GEORGE DRIVE PLAN & PROFILE
STA 1+75.00 TO STA 3+50.50

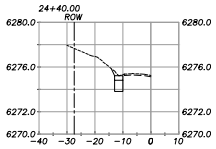
SHEET P-7
11 OF 26

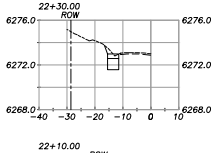
CONTRACT NO. PW 09-30490
CIP No. 95178

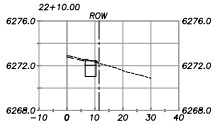
10-0160.C.11

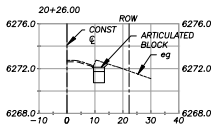




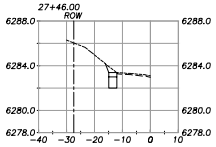


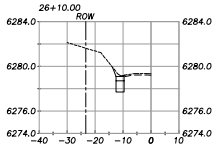


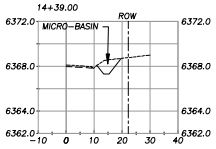


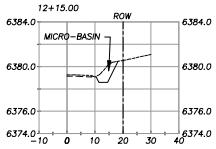


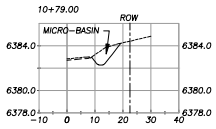
RUBICON DRIVE
INFILTRATION PAD SECTIONS

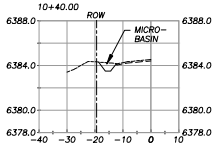




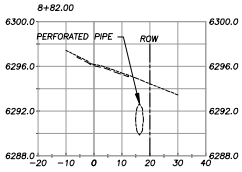








FOREST DRIVE
MICRO BASIN SECTIONS



SOUTH LANE
SECTIONS

FOR REDUCED PLANS 0 1 2 ORIGINAL SCALE IS IN INCHES

Drawing name: S:\CIVIL 3D PROJECTS\RIW\Engineering\RW-MVX-1 X-SECTIONS.dwg

REVISION			
NUMBER	DATE	DESCRIPTION	BY

REGISTERED PROFESSIONAL ENGINEER — STEVE PETER TOCHER — No. 55757 — Exp. 12-31-10 — CIVIL — STATE OF CALIFORNIA

PREPARED UNDER THE SUPERVISION OF :

REGISTERED CIVIL ENGINEER

DATE:

DESIGNED:	DRAWN:
RW	JTC
CHECKED:	DATE:
DWK	04/2010
ROAD NUMBER:	
####	

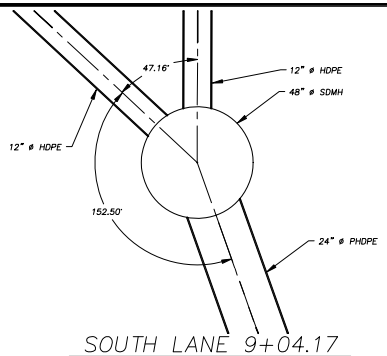
EL DORADO COUNTY
DEPARTMENT OF TRANSPORTATION

RUBICON 5 EROSION CONTROL PROJECT
X – SECTIONS

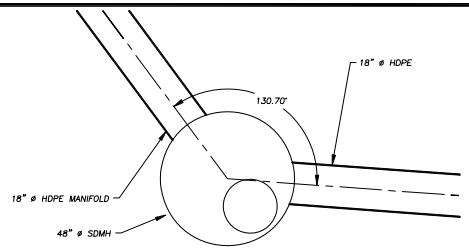
SHEET X-1 12 OF 26

CONTRACT NO. PW 09-30490
CIP No. 95178

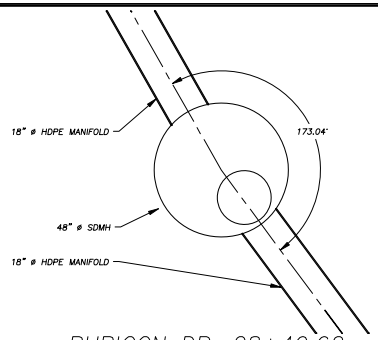
10-0160.C.12



SOUTH LANE 9+04.17
NTS



RUBICON DR. 28+00.29
NTS



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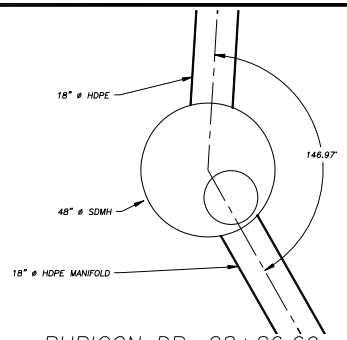
NTS



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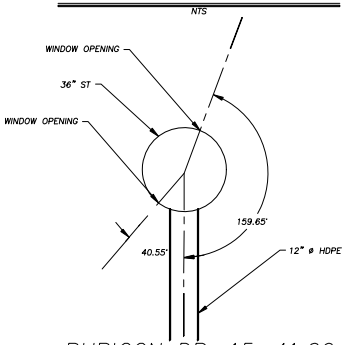
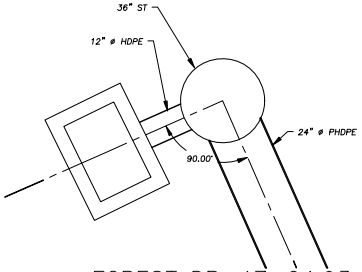
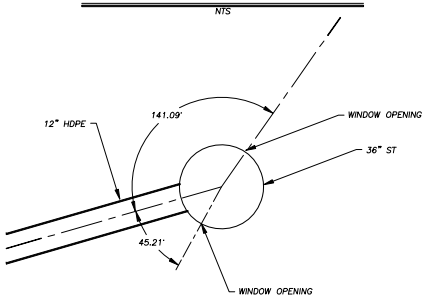
NTS



RUBICON DR. 15+41.00
NTS



FOREST DR. 17+04.93
NTS



FOREST DR. 17+34.44
NTS

FOR REDUCED PLANS 0 1 2 ORIGINAL SCALE IS IN INCHES

Drawing name: S:\CIVIL 3D PROJECTS\95178\Engineering\MPLAN\HORIZONTAL CONTROL H1-2.dwg

REVISION			
NUMBER	DATE	DESCRIPTION	BY

REGISTERED PROFESSIONAL ENGINEER PETER HOWARD No. 55757 Exp. 12-31-10 CIVIL STATE OF CALIFORNIA

PREPARED UNDER THE SUPERVISION OF :

REGISTERED CIVIL ENGINEER

DATE:

DESIGNED:	DRAWN:
RW	JTC
CHECKED:	DATE:
DWK	04/2010
ROAD NUMBER:	
####	

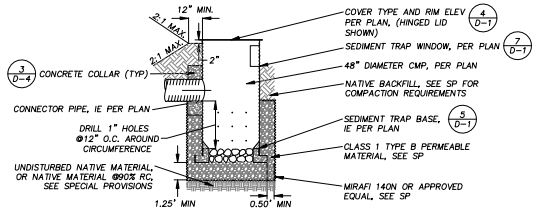
EL DORADO COUNTY
DEPARTMENT OF TRANSPORTATION

RUBICON 5 EROSION CONTROL PROJECT
SEDIMENT TRAP & SDMH HORIZONTAL CONTROL

SHEET H-1 13 OF 26

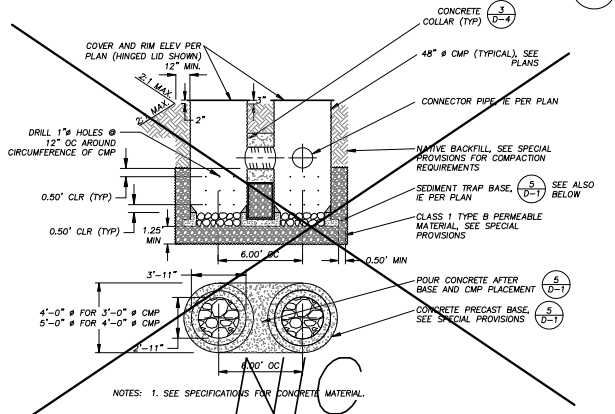
CONTRACT NO. PW 09-30490
CIP No. 95178

10-0160.C.13



SEDIMENT TRAP

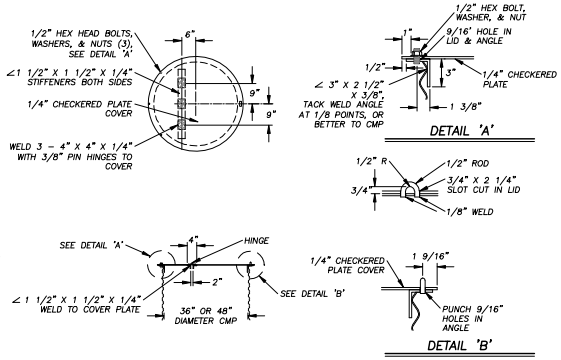
NTS — 1 / D-1



NOTES: 1. SEE SPECIFICATIONS FOR CONCRETE MATERIAL.

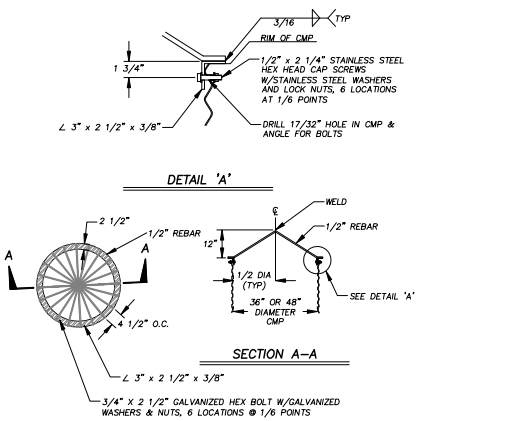
DOUBLE SEDIMENT TRAP

NTS — 2 / D-1



HINGED LID

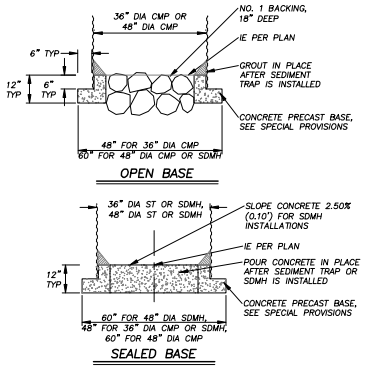
NTS — 4 / D-1



NOTE: GALVANIZE AFTER FABRICATION

ATRIUM LID

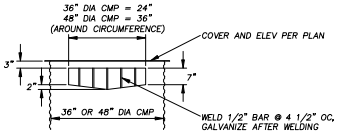
NTS — 6 / D-1



NOTES: 1. SEE SPECIAL PROVISIONS FOR CONCRETE SPECIFICATIONS.

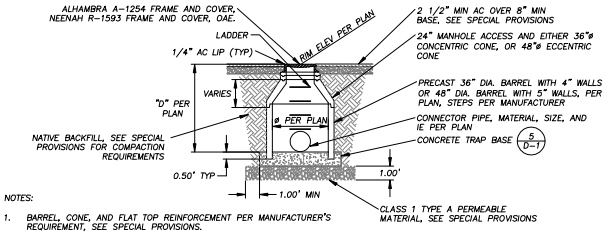
ST & STORM DRAIN MANHOLE BASES

NTS — 5 / D-1



SEDIMENT TRAP WINDOW

NTS — 7 / D-1

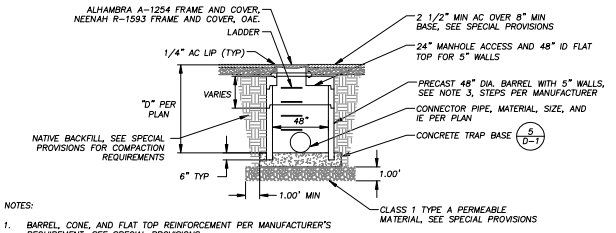


NOTES:

1. BARREL, CONE, AND FLAT TOP REINFORCEMENT PER MANUFACTURER'S REQUIREMENT, SEE SPECIAL PROVISIONS.
2. SEE SPECIAL PROVISIONS FOR SUBGRADE COMPACTION REQUIREMENTS.
3. LADDER INSTALLED PER MANUFACTURER SPECIFICATIONS.

STORM DRAIN MANHOLE

NTS — 3 / D-1



NOTES:

1. BARREL, CONE, AND FLAT TOP REINFORCEMENT PER MANUFACTURER'S REQUIREMENT, SEE SPECIAL PROVISIONS.
2. SEE SPECIAL PROVISIONS FOR SUBGRADE COMPACTION REQUIREMENTS.
3. LADDER INSTALLED PER MANUFACTURER SPECIFICATIONS.

FLAT TOP STORM DRAIN MANHOLE

NTS — 8 / D-1

FOR REDUCED PLANS 0 1 2 ORIGINAL SCALE IS IN INCHES

Drawing name: S:\CIVIL 3D PROJECTS\09190\Engineering\PLAN\RUBI_DETAILS_01-DK.dwg

REVISION			
NUMBER	DATE	DESCRIPTION	BY

REGISTERED PROFESSIONAL ENGINEER — STEVE PETER KOMAR — No. 56757 — Exp. 12-31-09 — CIVIL — STATE OF CALIFORNIA

PREPARED UNDER THE SUPERVISION OF :

REGISTERED CIVIL ENGINEER

DATE:

DESIGNED:	DRAWN:
RW	JTC
CHECKED:	DATE:
DWK	04/2010
ROAD NUMBER:	
####	

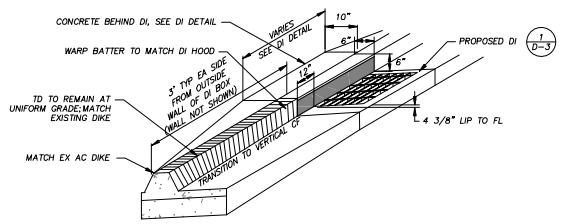
EL DORADO COUNTY
DEPARTMENT OF TRANSPORTATION

RUBICON 5 EROSION CONTROL PROJECT
DETAILS

SHEET D–1 14 OF 26

CONTRACT NO. PW 09–30490
CP No. 95178

10-0160.C.14

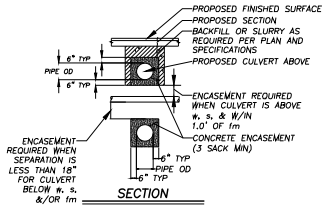


AC DIKE TO DI

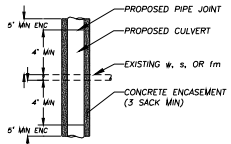
TRANSITION TO DRAINAGE INLET

NTS

1 D-2



SECTION



PLAN

CONCRETE ENCASEMENT

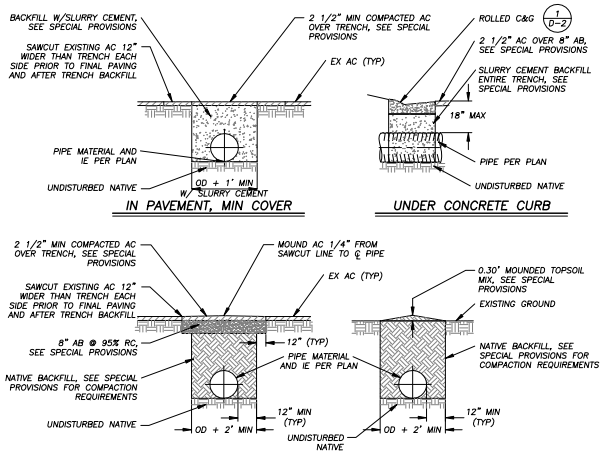
NTS

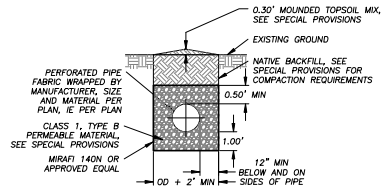
2 D-2

CONCRETE NOTES: THIS SHEET

1. CONCRETE FOR DETAIL 1/D-2 SHOWN ON THIS SHEET SHALL BE FINISHED BY BRUSHING WITH A SOFT BROOM AND SPRAYED UNIFORMLY WITH A CLEAR PIGMENTED CURING COMPOUND CONFORMING TO SECTION 90.7 OF THE AMENDMENTS TO JULY 2002 STANDARD SPECIFICATIONS.

2. SEE SPECIAL PROVISIONS FOR SUBGRADE PREPARATION REQUIREMENTS.





PERFORATED PIPE

NOTES:

1. FOR COMPACTION REQUIREMENTS SEE SPECIAL PROVISIONS.

2. SEE SPECIAL PROVISIONS FOR LOCATIONS WHERE PIPE TRENCH BACKFILL SHALL BE SLURRY CEMENT.

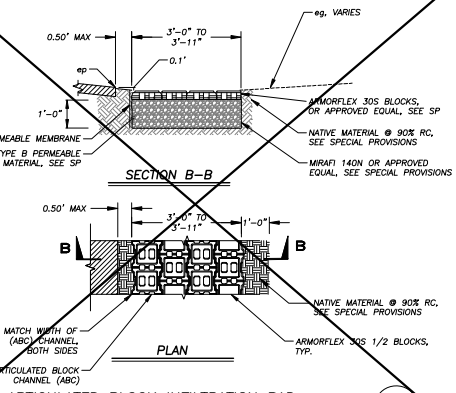
3. ASTM D 2321

4. IN CASES WHERE CRUSHED AGGREGATE IS USED TO BACKFILL A PIPE TRENCH, CONTRACTOR IS TO PLACE A LAYER OF MIRAFI 140N OR APPROVED EQUAL COVERING THE ENTIRE BOUNDRY INTERFACE BEFORE PLACING NATIVE FILL.

PIPE TRENCH

NTS

3 D-2



ARTICULATED BLOCK INFILTRATION PAD

NTS

4 D-2

NIC

FOR REDUCED PLANS 0 1 2 ORIGINAL SCALE IS IN INCHES

Drawing name: S:\CIVIL 3D PROJECTS\95178\Engineering\PLAN\RUBI_DETAILS_D-2R.dwg

REVISION			
NUMBER	DATE	DESCRIPTION	BY

REGISTERED PROFESSIONAL ENGINEER — PETER KOZAK — No. 56757 — Exp. 12-31-08 — CIVIL — STATE OF CALIFORNIA

PREPARED UNDER THE SUPERVISION OF :

REGISTERED CIVIL ENGINEER

DATE:

DESIGNED:	DRAWN:
RW	JTC
CHECKED:	DATE:
DWK	04/2010
ROAD NUMBER:	
####	

EL DORADO COUNTY DOT — DEPARTMENT OF TRANSPORTATION

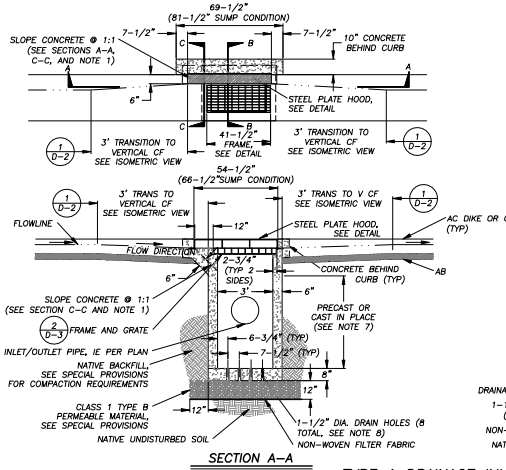
RUBICON 5 EROSION CONTROL PROJECT DETAILS

SHEET D-2 15 OF 26

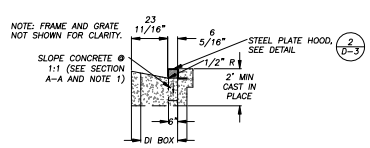
CONTRACT NO. PW 09-30490

CIP No. 95178

10-0160.C.15



SECTION A-A



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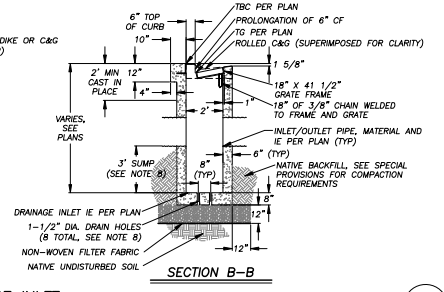
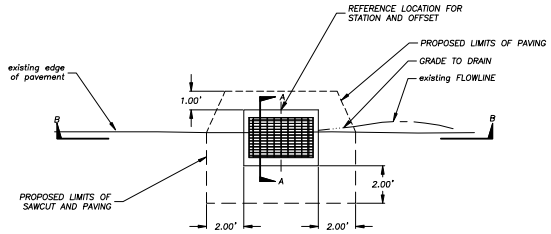


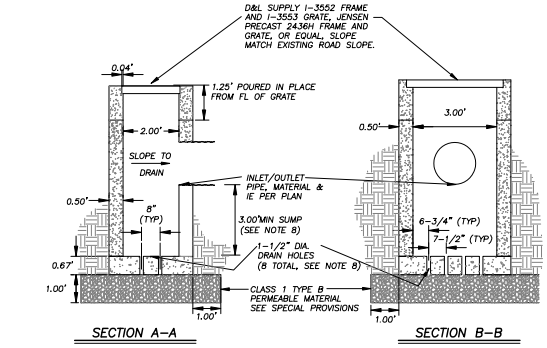
SECTION B-B

TYPE 1 DRAINAGE INLET

NTS

1 D-3





SECTION A-A

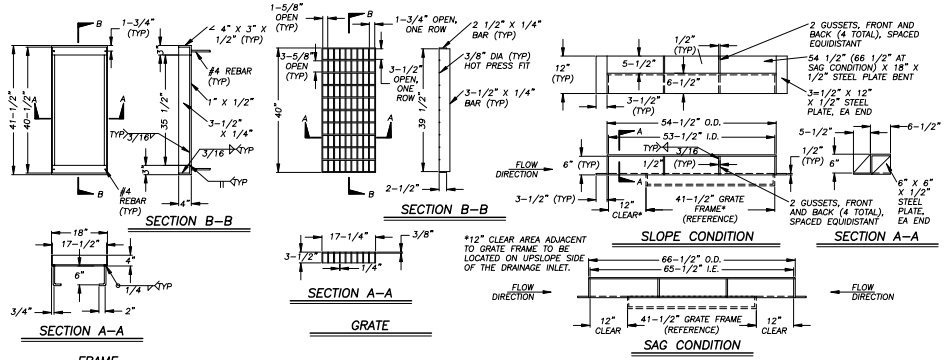
SECTION B-B

NOTE: SEE NOTES 6 FOR REINFORCEMENT REQUIREMENTS

TYPE 3 DRAINAGE INLET

NTS

3 D-3



DRAINAGE INLET FRAME, GRATE & HOOD

NTS

2 D-3

DRAINAGE INLET NOTES:

1. WITH HOOD APPLICATIONS, THE 1:1 SLOPED CONCRETE SECTION IS TO BE POSITIONED ON THE UP SLOPE SIDE OF THE DRAINAGE INLET. AT SAG LOCATIONS THE 1:1 SLOPED CONCRETE SECTION IS TO BE ON BOTH SIDES OF THE DRAINAGE INLET.
2. WHERE CONCRETE CURB OR AC DIKE, DEPRESS GUTTER FLOWLINE FROM 3 5/8" TO 6", AS MEASURED FROM TBC, PER 6' CURB TRANSITION DETAIL.
3. FLOOR OF THE DRAINAGE INLET SHALL BE PLACED PRIOR TO OR AT THE SAME TIME AS THE SIDE WALLS, OR TIED WITH REBAR.
4. FRAME AND GRATE SHALL CONFORM TO THE FRAME AND GRATE DETAIL ON THE PLANS, D&L I-3542, OR EQUAL.
5. DRAINAGE INLET HOOD SHALL BE 1/2" MINIMUM THICKNESS STEEL PLATE.
6. WALL REINFORCING (NOT SHOWN) SHALL 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.
7. A PRECAST UNIT WITH CAST-IN-PLACE TOP SECTION TO RECEIVE GRATE, FRAME AND HOOD WILL BE AN ACCEPTABLE ALTERNATIVE TO CAST-IN-PLACE UNITS. DRAINAGE INLETS THAT ARE ENTIRELY PRECAST ARE NOT ACCEPTABLE. CAST-IN-PLACE TOP SECTIONS SHALL BE DOWLED INTO THE CURB AND GUTTER WITH 3-#4 BARS, 18" LONG, ON EACH SIDE OF DRAINAGE INLET.
8. WHEN DIRECTED BY ENGINEER, DRAINAGE INLET IE SHALL EQUAL IE OF OUTLET PIPE. CONTRACTOR TO SLOPE DRAINAGE INLET FLOOR TO DRAIN AND OMIT HOLES.

FOR REDUCED PLANS 0 1 2 ORIGINAL SCALE IS IN INCHES

Drawing name: S:\CIVIL 3D PROJECTS\95178\Engineering\PLAN\RUB_DETAILS_D1-D6.dwg

REVISION			
NUMBER	DATE	DESCRIPTION	BY

REGISTERED PROFESSIONAL ENGINEER — STEVEN ALTER KOHAN — No. 55757 — Exp. 12-31-10 — CIVIL — STATE OF CALIFORNIA

PREPARED UNDER THE SUPERVISION OF :

REGISTERED CIVIL ENGINEER

DATE:

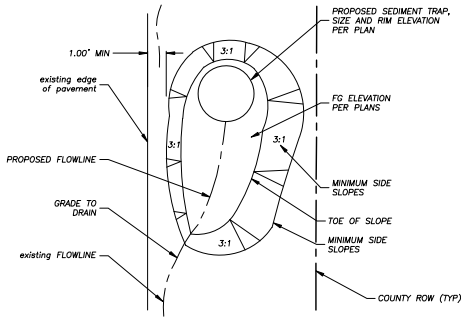
DESIGNED: RW	DRAWN: JTC
CHECKED: DWK	DATE: 04/2010
ROAD NUMBER: ####	

EL DORADO COUNTY
DEPARTMENT OF TRANSPORTATION

RUBICON 5 EROSION CONTROL PROJECT
DETAILS

SHEET D-3
16 OF 26
CONTRACT NO. PW 09-30490
CP No. 95178

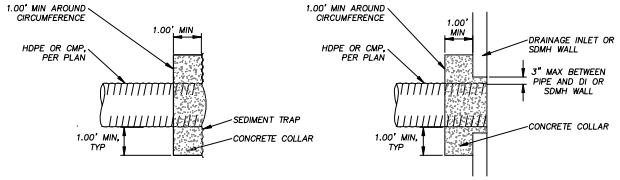
10-0160.C.16



MISC GRADING – MICRO BASIN

NTS

1 / D-4

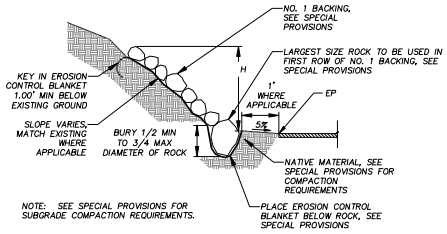


NOTE: SEE SPECIAL PROVISIONS FOR CONCRETE SPECIFICATIONS.

CONCRETE COLLAR

NTS

3 / D-4



NOTE: SEE SPECIAL PROVISIONS FOR SUBGRADE COMPACTION REQUIREMENTS.

PLAN SHEET	STREET & STATION	SF	AVERAGE HEIGHT, H	MAXIMUM HEIGHT, H	SLOPE RATIO
P-1	RUBICON DRIVE 8+19.07 TO 8+41.01	75	3.0'	3.0'	1.75:1

ROCK SLOPE PROTECTION

NTS

2 / D-4

FOR REDUCED PLANS 0 1 2 ORIGINAL SCALE IS IN INCHES Drawing name: S:\CIVIL 3D PROJECTS\95178\Engineering\MPLAN\RUB5_DETAILS_D-D4.dwg

REVISION			
NUMBER	DATE	DESCRIPTION	BY

REGISTERED PROFESSIONAL ENGINEER PETER ROCKWELL No. 55757 Exp. 12-31-08 CIVIL STATE OF CALIFORNIA

PREPARED UNDER THE SUPERVISION OF :

REGISTERED CIVIL ENGINEER

DATE:

DESIGNED:	DRAWN:
RW	JTC
CHECKED:	DATE:
DWK	04/2010
ROAD NUMBER:	
####	

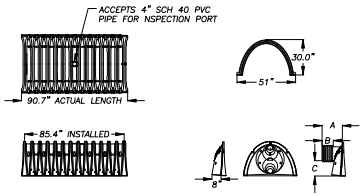
EL DORADO COUNTY
DEPARTMENT OF TRANSPORTATION

RUBICON 5 EROSION CONTROL PROJECT DETAILS

SHEET D-4 17 OF 26

CONTRACT NO. PW 09-30490

CIP No. 95178



CHAMBER	PIPE SIZE	A	B	C
51.0" X 30.0" X 85.4"	12 in	14.70 in	7.70 in	12.50 in

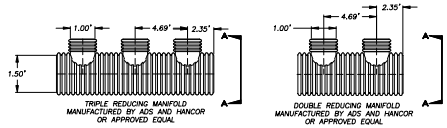
NOMINAL CHAMBER SPECIFICATIONS

SIZE (W x H x INSTALLED LENGTH) – 51.0" x 30.0" x 85.4"
CHAMBER STORAGE – 45.9 CUBIC FEET
MINIMUM INSTALLED STORAGE – 74.9 CUBIC FEET
WEIGHT – 75 LBS.

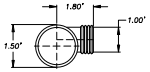
STORMWATER CHAMBER TECHNICAL DETAILS

NTS

1 / D–5



MANIFOLDS ARE DESIGNED TO BE COUPLED TO STORMTECH AND LANDSAVER OR APPROVED EQUAL PREFABRICATED END CAPS.

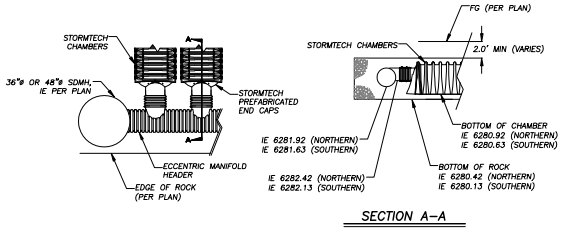


SECTION A–A

ECCENTRIC HEADER DETAILS

NTS

4 / D–5

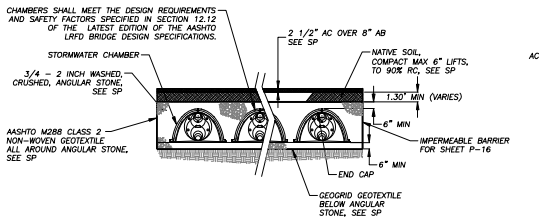


SECTION A–A

MANIFOLD CONNECTIONS

NTS

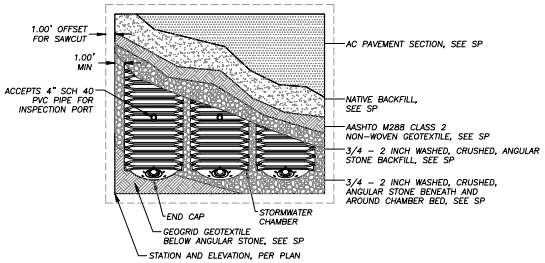
7 / D–5



TYPICAL CROSS SECTION

NTS

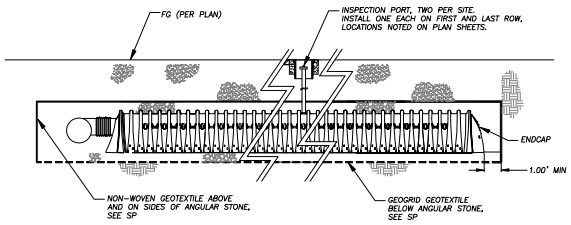
2 / D–5



TYPICAL PLAN VIEW

NTS

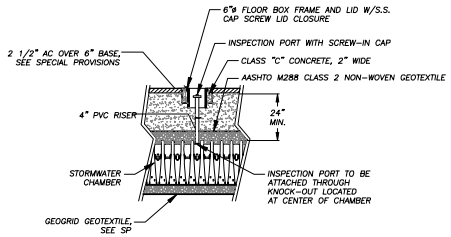
5 / D–5



INSPECTION PORT

NTS

3 / D–5



INSPECTION PORT

NTS

6 / D–5

FOR REDUCED PLANS 0 1 2 ORIGINAL SCALE IS IN INCHES

Drawing name: S:\CIVIL 3D PROJECTS\95178\Engineering\PLAN\RUB_DETAILS_D-05.dwg

REVISION NUMBER	DATE	DESCRIPTION	BY

REGISTERED PROFESSIONAL ENGINEER STEVE PETER RODAN No. 58757 Exp. 12-31-10 CIVIL STATE OF CALIFORNIA

PREPARED UNDER THE SUPERVISION OF :

REGISTERED CIVIL ENGINEER

DATE:

DESIGNED:	DRAWN:
RW	JTC
CHECKED:	DATE:
DWK	04/2010
ROAD NUMBER:	
####	

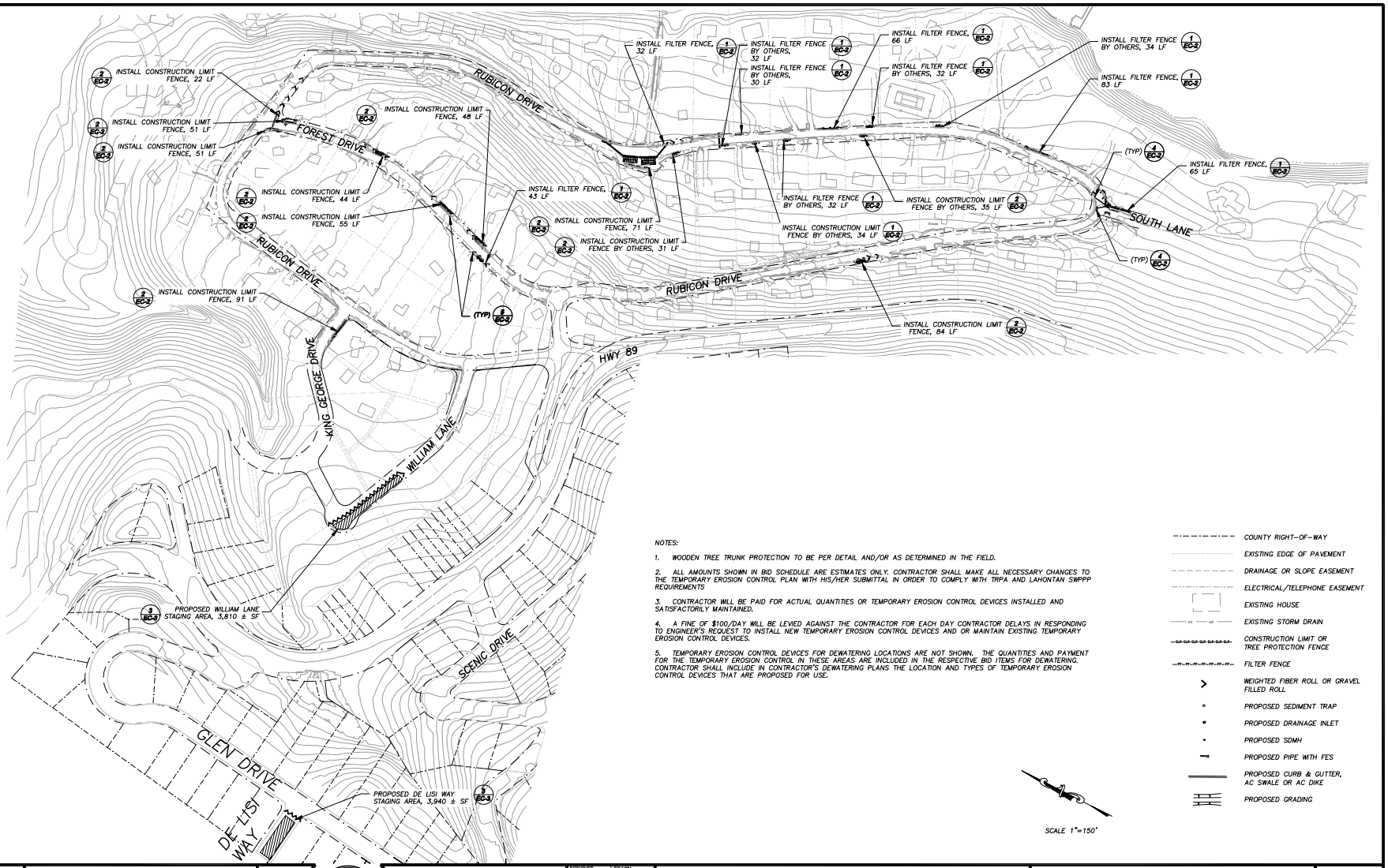
EL DORADO COUNTY
DEPARTMENT OF TRANSPORTATION

RUBICON 5 EROSION CONTROL PROJECT
DETAILS

SHEET D–5
18 OF 26

CONTRACT NO. PW 09–30490
CIP No. 95178

10-0160.C.18



NOTES:

1. WOODEN TREE TRUNK PROTECTION TO BE PER DETAIL AND/OR AS DETERMINED IN THE FIELD.

2. ALL AMOUNTS SHOWN IN BID SCHEDULE ARE ESTIMATES ONLY. CONTRACTOR SHALL MAKE ALL NECESSARY CHANGES TO THE TEMPORARY EROSION CONTROL PLAN WITH HIS/HER SUBMITTAL IN ORDER TO COMPLY WITH TRPA AND LAHONTAN SWPPP REQUIREMENTS

3. CONTRACTOR WILL BE PAID FOR ACTUAL QUANTITIES OR TEMPORARY EROSION CONTROL DEVICES INSTALLED AND SATISFACTORILY MAINTAINED.

4. A FINE OF $100/DAY WILL BE LEVIED AGAINST THE CONTRACTOR FOR EACH DAY CONTRACTOR DELAYS IN RESPONDING TO ENGINEER'S REQUEST TO INSTALL NEW TEMPORARY EROSION CONTROL DEVICES AND OR MAINTAIN EXISTING TEMPORARY EROSION CONTROL DEVICES.

5. TEMPORARY EROSION CONTROL DEVICES FOR DEWATERING LOCATIONS ARE NOT SHOWN. THE QUANTITIES AND PAYMENT FOR THE TEMPORARY EROSION CONTROL IN THESE AREAS ARE INCLUDED IN THE RESPECTIVE BID ITEMS FOR DEWATERING. CONTRACTOR SHALL INCLUDE IN CONTRACTOR'S DEWATERING PLANS THE LOCATION AND TYPES OF TEMPORARY EROSION CONTROL DEVICES THAT ARE PROPOSED FOR USE.

- COUNTY RIGHT-OF-WAY
- EXISTING EDGE OF PAVEMENT
- DRAINAGE OR SLOPE EASEMENT
- ELECTRICAL/TELEPHONE EASEMENT
- EXISTING HOUSE
- EXISTING STORM DRAIN
- CONSTRUCTION LIMIT OR TREE PROTECTION FENCE
- FILTER FENCE
- WEIGHTED FIBER ROLL OR GRAVEL FILLED ROLL
- PROPOSED SEDIMENT TRAP
- PROPOSED DRAINAGE INLET
- PROPOSED SDMH
- PROPOSED PIPE WITH FES
- PROPOSED CURB & GUTTER, AC SWALE OR AC DIKE
- PROPOSED GRADING

SCALE 1"=150'

FOR REDUCED PLANS 0 1 2 ORIGINAL SCALE IS IN INCHES

Drawing name: S:\CIVIL 3D PROJECTS\95178\Engineering\MPLAN\EC_1.dwg

REVISION			
NUMBER	DATE	DESCRIPTION	BY

REGISTERED PROFESSIONAL ENGINEER No. 55757 Exp. 12-31-10 CIVIL STATE OF CALIFORNIA

PREPARED UNDER THE SUPERVISION OF :

REGISTERED CIVIL ENGINEER

DATE:

DESIGNED: RW	DRAWN: JTC
CHECKED: DWK	DATE: 04/2010
ROAD NUMBER: ####	

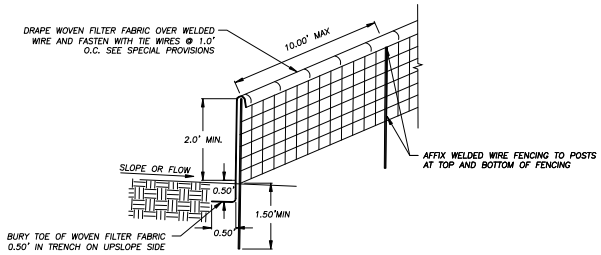
EL DORADO COUNTY
DEPARTMENT OF TRANSPORTATION

RUBICON 5 EROSION CONTROL PROJECT
TEMPORARY EROSION CONTROL PLAN

SHEET EC-1 19 OF 26

CONTRACT NO. PW 09-30490
CIP No. 95178

10-0160.C.19



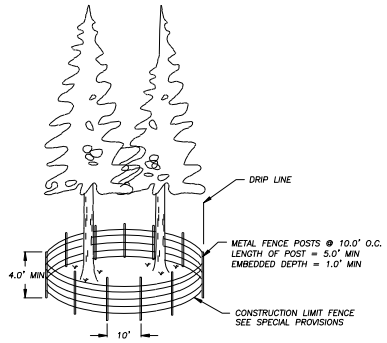
NOTES: 1. CONTRACTOR MAY USE PRE MANUFACTURED SEDIMENT CONTROL FENCE AS APPROVED BY THE ENGINEER, SEE SPECIAL PROVISIONS.

2. PLACE FENCING SUCH THAT STORM RUNOFF CANNOT PASS AROUND OR UNDER FENCE.

FILTER FENCE (FF)

NTS

1 / EC-2



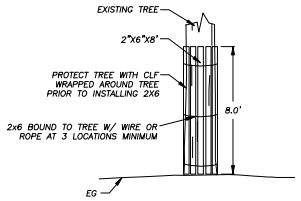
AT DRIPLINE

NOTE:
DETAIL ABOVE IS TYPICAL FOR SOME DRIPLINE LOCATIONS. CONSTRUCTION LIMIT FENCE SHALL BE STAKED IN THE FIELD BY ENGINEER.

CONSTRUCTION LIMIT FENCE (CLF)

NTS

2 / EC-2

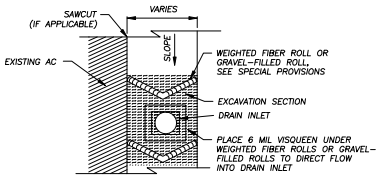


NOTE:
DETAIL ABOVE SHALL BE INSTALLED FOR TREE PROTECTION AT LOCATIONS WHERE CONSTRUCTION LIMIT FENCE INTERFERES WITH CONSTRUCTION ACTIVITIES.

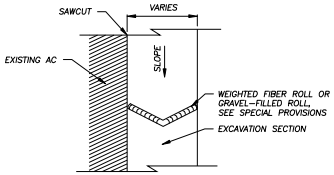
WOODEN TREE TRUNK PROTECTION

NTS

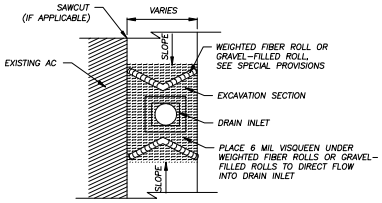
3 / EC-2



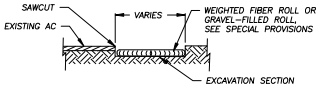
DRAIN INLET ON GRADE



ON GRADE



DRAIN INLET @SAG



SECTION

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

NTS

5 / EC-2

DRAIN INLET PROTECTION

NTS

4 / EC-2

REVISION			
NUMBER	DATE	DESCRIPTION	BY

REGISTERED PROFESSIONAL ENGINEER — STEVE PETER KOHAN — No. 56757 — Exp. 12-31-10 — CIVIL — STATE OF CALIFORNIA

PREPARED UNDER THE SUPERVISION OF :

REGISTERED CIVIL ENGINEER

DATE:

DESIGNED:	DRAWN:
RW	JTC
CHECKED:	DATE:
DWK	04/2010
ROAD NUMBER:	
####	

EL DORADO COUNTY
DEPARTMENT OF TRANSPORTATION

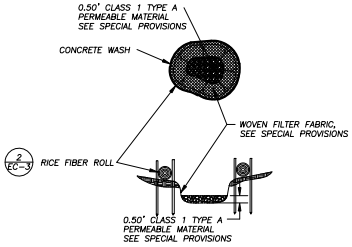
RUBICON 5 EROSION CONTROL PROJECT
TEMPORARY EROSION CONTROL DETAILS

SHEET EC-2 20 OF 26

CONTRACT NO. PW 09-30490
CIP No. 95178

FOR REDUCED PLANS 0 1 2 ORIGINAL SCALE IS IN INCHES Drawing name: S:\CIVIL 3D PROJECTS\95178\Engineering\MPLAN\EC_2-3.dwg

10-0160.C.20

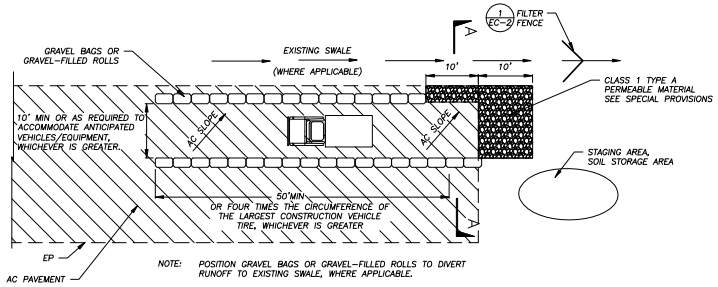


NOTE: CONCRETE WASH SHALL BE SIZED FOR WASHING ALL CONCRETE EQUIPMENT W/O OVER TOPPING BASIN.

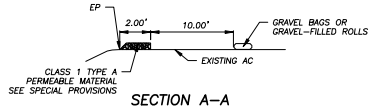
CONCRETE WASH AREA

NTS

1 EC-3



NOTE: POSITION GRAVEL BAGS OR GRAVEL-FILLED ROLLS TO DIVERT RUNOFF TO EXISTING SWALE, WHERE APPLICABLE.

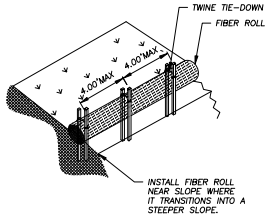


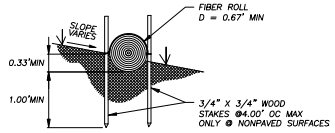
SECTION A–A

TIRE WASH AREA (ON PAVEMENT)

NTS

3 EC-3





NOTE: INSTALL FIBER ROLL ALONG LEVEL CONTOUR.

RICE STRAW FIBER ROLLS

NTS

2 EC-3

FOR REDUCED PLANS 0 1 2 ORIGINAL SCALE IS IN INCHES

Drawing name: S:\CIVIL 3D PROJECTS\95178\Engineering\MPLAN\EC_2-3.dwg

REVISION			
NUMBER	DATE	DESCRIPTION	BY

REGISTERED PROFESSIONAL ENGINEER — STEVE PETER KOCHAN — No. 56757 — Exp. 12-31-10 — CIVIL — STATE OF CALIFORNIA

PREPARED UNDER THE SUPERVISION OF :

REGISTERED CIVIL ENGINEER

DATE:

DESIGNED:	DRAWN:
RW	JTC
CHECKED:	DATE:
DWK	04/2010
ROAD NUMBER:	
####	

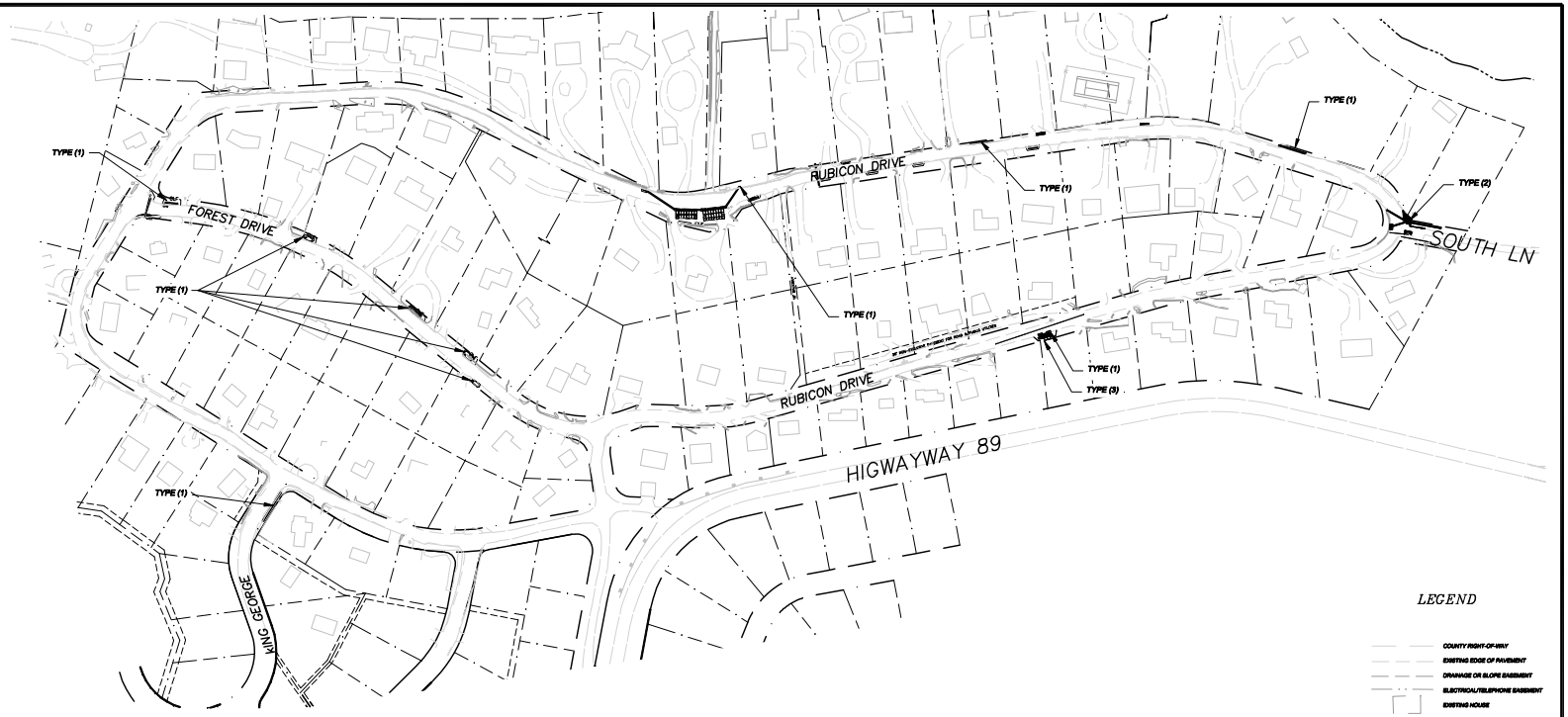
EL DORADO COUNTY
DEPARTMENT OF TRANSPORTATION

RUBICON 5 EROSION CONTROL PROJECT
TEMPORARY EROSION CONTROL DETAILS

SHEET EC-3
21 OF 26

CONTRACT NO. PW 09-30490
CIP No. 95178

10-0160.C.21



LEGEND

- COUNTY RIGHT-OF-WAY
- EXISTING EDGE OF PAVEMENT
- DRAINAGE OR SLOPE EASEMENT
- ELECTRICAL/TELEPHONE EASEMENT
- EXISTING HOUSE
- PROPOSED SEDIMENT TRAP
- PROPOSED DRAINAGE INLET
- PROPOSED SOIAH
- PROPOSED PIPE WITH FES
- PROPOSED CURB & GUTTER, AC BERMS OR AC DIKE
- PROPOSED ROCK DISSIPATOR
- PROPOSED GRADING

0 100' 200'

REVEGETATION WORK LEGEND

TYPE (1) – CONTRACTOR TO PLACE SALVAGED TOPSOIL; (CCC) TO PLACE SEED AND PINE NEEDLE MULCH

TYPE (2) – CONTRACTOR TO PLACE SALVAGED TOPSOIL NOT TO EXCEED 85% COMPACTION; (CCC) TO PLACE SEED AND PINE NEEDLE MULCH

TYPE (3) – CCC TO SCARIFY, SEED AND PLACE PINE NEEDLE MULCH

NOTES: ALL REVEGETATION WORK TO BE COMPLETED BY OTHERS

REVEGETATION DEFINITIONS

SALVAGED TOPSOIL: TOP 12" OF EXCAVATED SOIL FROM IMPROVEMENT INSTALLATION AREAS

REVISION			
NUMBER	DATE	DESCRIPTION	BY

REGISTERED PROFESSIONAL ENGINEER STEVE PETER ROMANO No. 55757 Exp. 12-31-10 CIVIL STATE OF VIRGINIA

PREPARED UNDER THE SUPERVISION OF :

REGISTERED CIVIL ENGINEER

DATE:

DESIGNED:	DRAWN:
RW	JTC
CHECKED:	DATE:
DWK	04/2010
ROAD NUMBER:	
####	

EL DORADO COUNTY
DEPARTMENT OF TRANSPORTATION

RUBICON 5 EROSION CONTROL PROJECT
REVEGETATION PLAN

SHEET R-1
22 OF 26

CONTRACT NO. PW 09-30490
CIP No. 95178

FOR REDUCED PLANS ORIGINAL SCALE IS IN INCHES 0 1 2

Drawing name: S:\CIVIL 3D PROJECTS\95178\Engineering\PLAN\REVEG_R-1.dwg

10-0160.C.22

NOTES:

1. THIS PLAN HAS BEEN PREPARED AS A GUIDE TO THE CONTRACTOR IN PREPARATION OF A COMPLETE TRAFFIC CONTROL PLAN AND TO AID IN THE CONTRACTOR'S PLANNING FOR STAGING/STORAGE OF MATERIALS AND EQUIPMENT. THE SIGNING FOR THE DETOURS SHOWN ARE EXAMPLES AND ARE TYPICAL FOR ALL DETOURS THE CONTRACTOR PROPOSES TO IMPLEMENT. THE CONTRACTOR'S TRAFFIC CONTROL PLAN SHALL INCLUDE DETAILED CONTROLS FOR ALL DETOURS PROPOSED, INCLUDING FLAGGERS, LANE CLOSURES AND SIGNS, DETOURS AND SIGNS, AS APPLICABLE, ROAD CLOSURES AND SIGNS, AS APPLICABLE, FOR ALL ITEMS OF ROAD WORK WHICH WILL REQUIRE ALTERATION OF EXISTING TRAFFIC PATTERNS.

2. THE CONTRACTOR'S TRAFFIC CONTROL PLAN SHALL ADDRESS EACH PHASE OF CONSTRUCTION (e.g. PIPE INSTALLATION, CURB AND GUTTER, ROCK PLACEMENT, STRUCTURES ADJACENT TO AND/OR AFFECTING THE ROADWAY, ETC.) AND SHALL CONFORM TO THE CALIFORNIA MUTCD (FHWA MUTCD 2003 REVISION 1, AS AMENDED FOR USE IN CALIFORNIA). THE CONTRACTOR'S TRAFFIC CONTROL PLAN SHALL ALSO INCLUDE ALL SIGNING REQUIRED AT INTERSECTING STREETS WITHIN THE AREA THAT WILL REQUIRE TRAFFIC CONTROL.

3. DETOURS WILL BE ALLOWED FOR THE INSTALLATION OF ALL CULVERTS AND CURB AND GUTTER. AT ALL OTHER TIMES, TWO LANES OF TRAFFIC SHALL BE MAINTAINED.

4. CLOSURE FOR DETOURS WILL BE ALLOWED ONLY DURING WORKING HOURS AND ONLY WHEN WORK IN THE AREA REQUIRING A DETOUR IS IN PROGRESS. AT THE END OF EACH WORK DAY A MINIMUM OF TWO 10 FOOT LANES SHALL BE OPENED TO PUBLIC TRAFFIC. NO DETOUR SHALL PREVENT RESIDENTS FROM ACCESS TO THEIR PROPERTY.

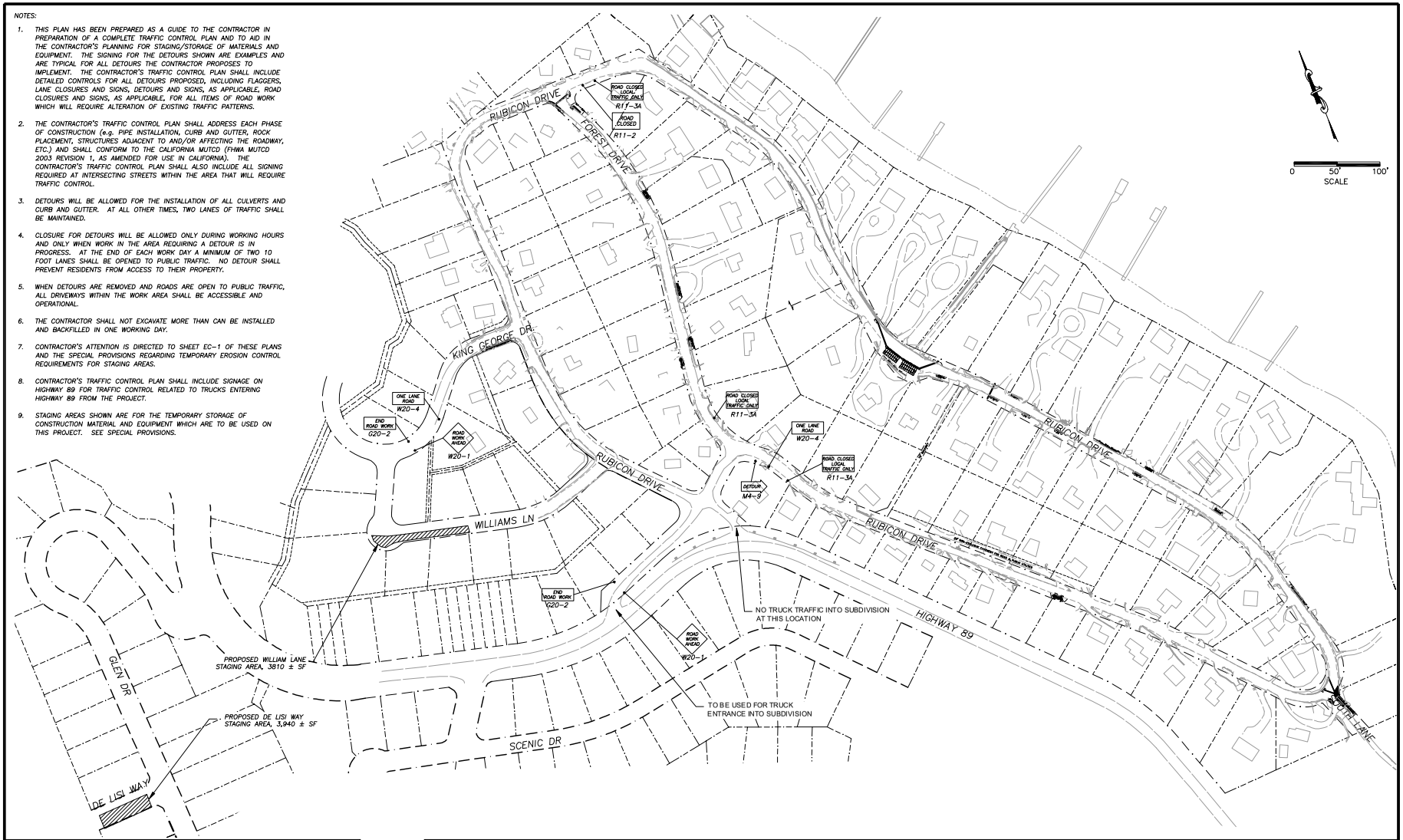
5. WHEN DETOURS ARE REMOVED AND ROADS ARE OPEN TO PUBLIC TRAFFIC, ALL DRIVEWAYS WITHIN THE WORK AREA SHALL BE ACCESSIBLE AND OPERATIONAL.

6. THE CONTRACTOR SHALL NOT EXCAVATE MORE THAN CAN BE INSTALLED AND BACKFILLED IN ONE WORKING DAY.

7. CONTRACTOR'S ATTENTION IS DIRECTED TO SHEET EC-1 OF THESE PLANS AND THE SPECIAL PROVISIONS REGARDING TEMPORARY EROSION CONTROL REQUIREMENTS FOR STAGING AREAS.

8. CONTRACTOR'S TRAFFIC CONTROL PLAN SHALL INCLUDE SIGNAGE ON HIGHWAY 89 FOR TRAFFIC CONTROL RELATED TO TRUCKS ENTERING HIGHWAY 89 FROM THE PROJECT.

9. STAGING AREAS SHOWN ARE FOR THE TEMPORARY STORAGE OF CONSTRUCTION MATERIAL AND EQUIPMENT WHICH ARE TO BE USED ON THIS PROJECT. SEE SPECIAL PROVISIONS.



FOR REDUCED PLANS 0 1 2 ORIGINAL SCALE IS IN INCHES

Drawing name: S:\CIVIL 3D PROJECTS\95178\Engineering\MP-AN\T-1 TRAFFIC.dwg

REVISION			
NUMBER	DATE	DESCRIPTION	BY

REGISTERED PROFESSIONAL ENGINEER PETER ROSS No. 58757 Exp. 12-31-10 CIVIL STATE OF CALIFORNIA

PREPARED UNDER THE SUPERVISION OF :

REGISTERED CIVIL ENGINEER

DATE:

DESIGNED:	DRAWN:
RW	JTC
CHECKED:	DATE:
DWK	04/2010
ROAD NUMBER:	
####	

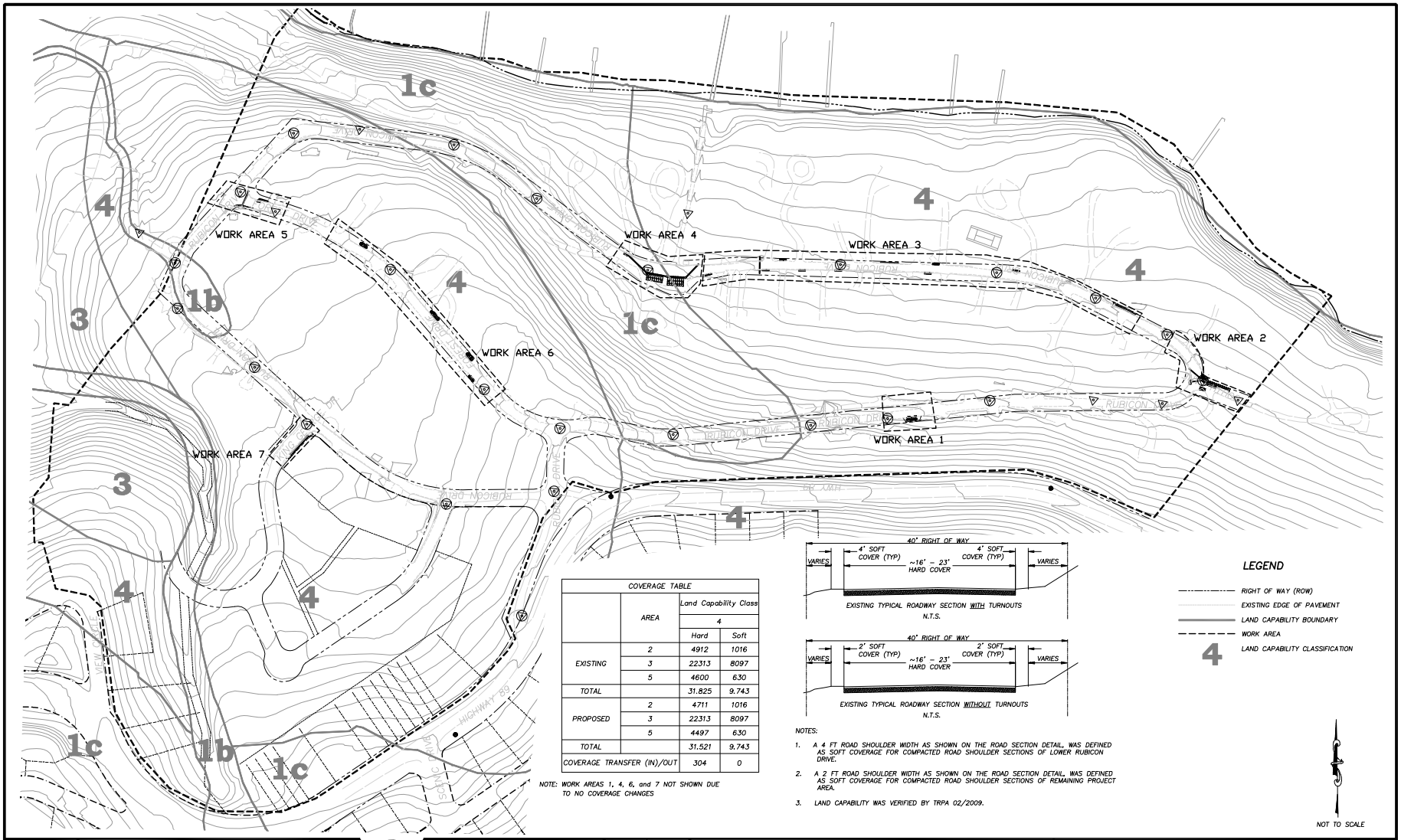
EL DORADO COUNTY
DEPARTMENT OF TRANSPORTATION

RUBICON 5 EROSION CONTROL PROJECT
TRAFFIC CONTROL AND STAGING PLAN

SHEET T-1
23 OF 26

CONTRACT NO. PW 09-30490
CP No. 95178

10-0160.C.23



COVERAGE TABLE			
AREA		Land Capability Class 4	
		Hard	Soft
EXISTING	2	4912	1016
	3	22313	8097
	5	4600	630
TOTAL		31.825	9.743
PROPOSED	2	4711	1016
	3	22313	8097
	5	4497	630
TOTAL		31.521	9.743
COVERAGE TRANSFER (IN)/OUT		304	0

NOTE: WORK AREAS 1, 4, 6, and 7 NOT SHOWN DUE TO NO COVERAGE CHANGES

EXISTING TYPICAL ROADWAY SECTION WITH TURNOUTS
N.T.S.

EXISTING TYPICAL ROADWAY SECTION WITHOUT TURNOUTS
N.T.S.

NOTES:

1. A 4 FT ROAD SHOULDER WIDTH AS SHOWN ON THE ROAD SECTION DETAIL, WAS DEFINED AS SOFT COVERAGE FOR COMPACTED ROAD SHOULDER SECTIONS OF LOWER RUBICON DRIVE.
2. A 2 FT ROAD SHOULDER WIDTH AS SHOWN ON THE ROAD SECTION DETAIL, WAS DEFINED AS SOFT COVERAGE FOR COMPACTED ROAD SHOULDER SECTIONS OF REMAINING PROJECT AREA.
3. LAND CAPABILITY WAS VERIFIED BY TRPA 02/2009.

LEGEND

- RIGHT OF WAY (ROW)
- EXISTING EDGE OF PAVEMENT
- LAND CAPABILITY BOUNDARY
- WORK AREA
- 4 — LAND CAPABILITY CLASSIFICATION

NOT TO SCALE

FOR REDUCED PLANS ORIGINAL SCALE IS IN INCHES 0 1 2

Drawing name: S:\CIVIL 3D PROJECTS\95178\Engineering\MPLAN\RUBL1-1.dwg

REVISION			
NUMBER	DATE	DESCRIPTION	BY

REGISTERED PROFESSIONAL ENGINEER — STEVE PETER KOMAR — No. 55757 — Exp. 12-31-10 — CIVIL — STATE OF CALIFORNIA

PREPARED UNDER THE SUPERVISION OF :

REGISTERED CIVIL ENGINEER

DATE:

DESIGNED:	DRAWN:
RW	JTC
CHECKED:	DATE:
DWK	04/2010
ROAD NUMBER:	
####	

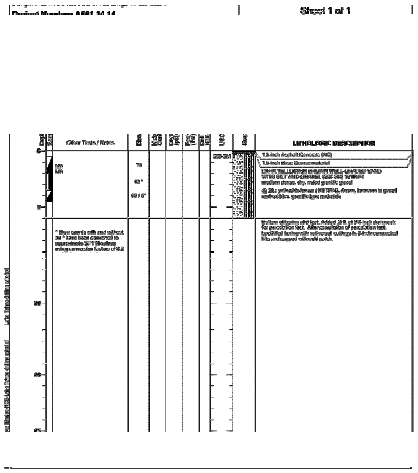
EL DORADO COUNTY
DEPARTMENT OF TRANSPORTATION

RUBICON 5 EROSION CONTROL PROJECT
EXISTING AND PROPOSED COVERAGE

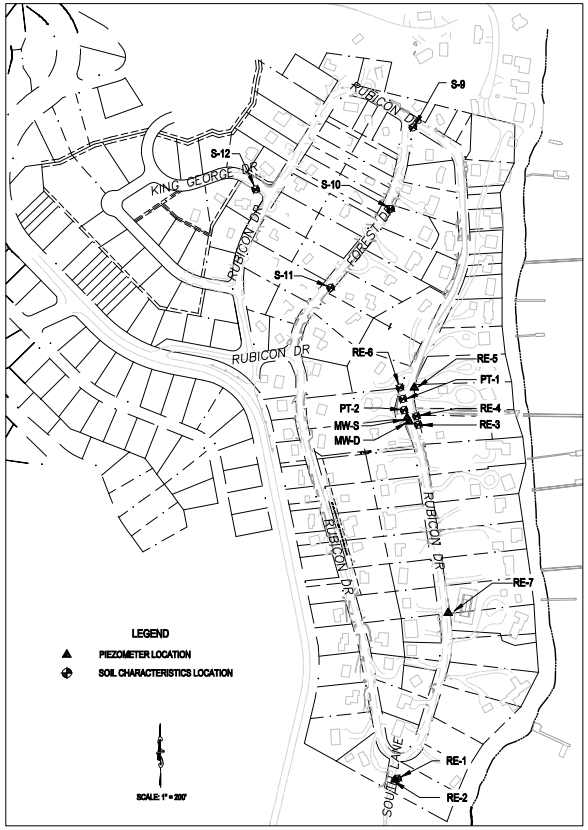
SHEET L-1 24 OF 26

CONTRACT NO. PW 09-30490
CIP No. 95178

10-0160.C.24



BORING SUMMARY TABLE		
WELL ID	DEPTH (FT)	MEASURED HIGH GROUND WATER (2009-2010)
RE-1	5.5'	NOT DETECTED
RE-2	5.5'	NOT DETECTED
RE-3	4.2'	NOT DETECTED
RE-4	4.3'	NOT DETECTED
RE-5	4.8'	NOT DETECTED
RE-6	3.5'	NOT DETECTED
RE-7	4.5'	NOT DETECTED
PT-1	6.0'	NOT DETECTED
PT-2	6.0'	NOT DETECTED
MW-S	13.0'	NOT DETECTED
MW-D	70.4'	Y (62.2' BGS)
S-9	8.5'	NOT DETECTED
S-10	1.5'	NOT DETECTED
S-11	5.0'	NOT DETECTED
S-12	3.0'	NOT DETECTED



FOR REDUCED PLANS 0 1 2 ORIGINAL SCALE IS IN INCHES

Drawing name: S:\CIVIL 3D PROJECTS\95178\Engineering\MPLAN\RUHB5_21-22.dwg

REVISION			
NUMBER	DATE	DESCRIPTION	BY

PREPARED UNDER THE SUPERVISION OF :

REGISTERED CIVIL ENGINEER

DATE:

DESIGNED: RW	DRAWN: JTC
CHECKED: DWK	DATE: 04/2010
ROAD NUMBER: ####	

EL DORADO COUNTY
DEPARTMENT OF TRANSPORTATION

RUBICON 5 EROSION CONTROL PROJECT
GEOTECHNICAL SURVEY RESULTS

SHEET G-1 25 OF 26

CONTRACT NO. PW 09-30490
CIP No. 95178