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# Utility Representatives

UTILITY	COMPANY	NAME	PHONE
GAS	PACIFIC GAS & ELECTRIC	BRIAN KICHNE	959-921-7364
ELECTRICITY	PACIFIC GAS & ELECTRIC	BRIAN KICHNE	959-921-7364
TELEPHONE	AT&T	JERRY SHAMORE	959-921-6616
WATER	EL DORADO IRRIGATION DISTRICT	MIKE BINKL	959-642-4654
SEWER	EL DORADO IRRIGATION DISTRICT	ELIZABETH WELLS	959-642-4116
SEWERAGE	COUNTY OF EL DORADO	DOT	959-921-9999
FIRE PROTECTION	EL DORADO FPD	MARK JOHNSON	959-444-9838
CABLE TELEVISION	COMCASTING SQUARE	KIP MILLER	959-444-5085
OTHER	UNDERGROUND SERVICE ALERT		959-642-2444

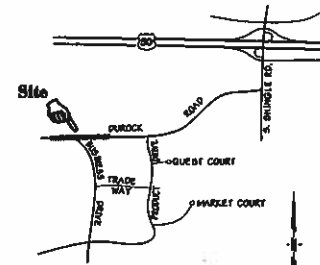
# DEPARTMENT OF TRANSPORTATION COUNTY OF EL DORADO, CA

## PROJECT PLANS FOR THE CONSTRUCTION OF DUROCK ROAD & BUSINESS DRIVE TRAFFIC SIGNAL & INTERSECTION WIDENING - CONTRACT NO. 73354

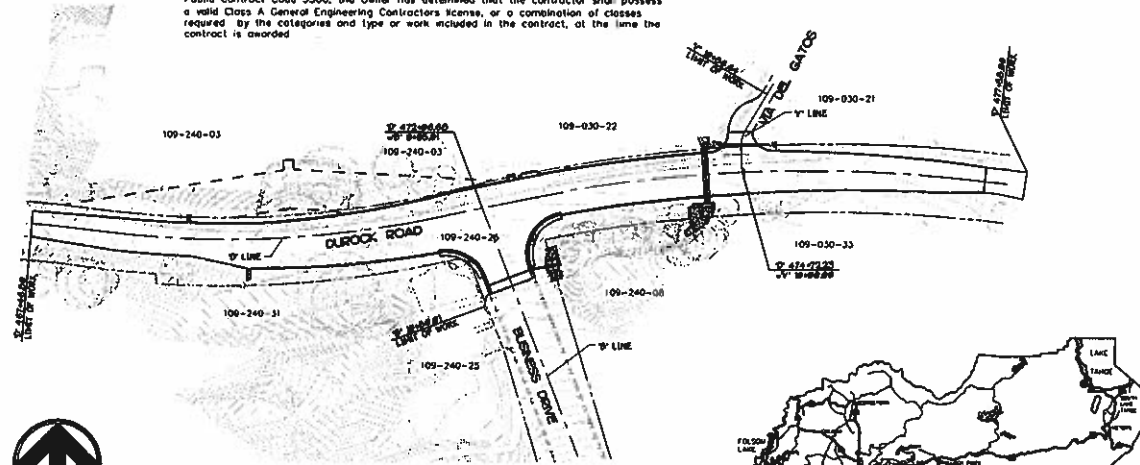
IN THE COUNTY OF EL DORADO, DISTRICT II  
SHINGLE SPRINGS, CA

To be supplemented with Standard Plans and Specifications dated May 2006,  
of the California Department of Transportation.

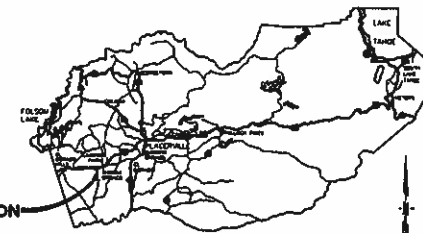
The Contractor's License Classification: In accordance with the provisions of California  
Public Contract Code 3300, the Owner has determined that the contractor shall possess  
a valid Class A General Engineering Contractors license, or a combination of classes  
required by the categories and type of work included in the contract, at the time the  
contract is awarded.



LOCATION MAP  
NOT TO SCALE



SITE PLAN  
SCALE: 1"=40'



VICINITY MAP



REVISIONS		
NO.	DATE	BY

SUBMITTED BY: CARL SLOAN  
CIVIL ENGINEER  
STATE OF CALIFORNIA NO 39243



PLANNING DATE: 7-29-09

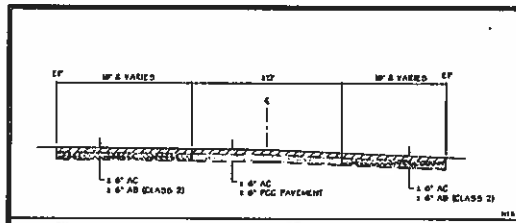
**BOARD OF SUPERVISORS**  
 JOHN KNIGHT  
 RAY NUTTING  
 JAMES SWEENEY  
 RON BRIGGS  
 NORMA SANTIAGO

**COUNTY OF EL DORADO  
DEPARTMENT OF  
TRANSPORTATION**  
 (916) 358-3550  
 4505 GOLDEN FOOTHILL PKWY  
 EL DORADO HILLS, CA 95762

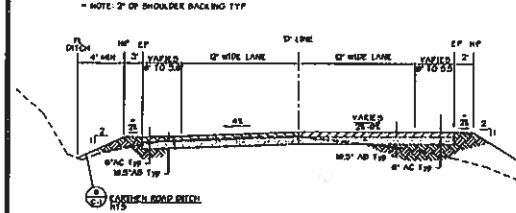
APPROVED BY: \_\_\_\_\_ DATE: \_\_\_\_\_  
 COUNTY OF EL DORADO COUNTY BOARD OF SUPERVISORS  
 APPROVED BY: \_\_\_\_\_ DATE: \_\_\_\_\_  
 CARL S. SLOAN, P.E., No. 39243  
 PROJECT ENGINEER, COUNTY DEPARTMENT OF TRANSPORTATION  
 DATE: 8/10/09

CONTRACT NO. 73354  
**DUROCK ROAD & BUSINESS DRIVE TRAFFIC SIGNAL  
& INTERSECTION WIDENING**  
**TITLE SHEET**  
 SUBMITTAL DATE: 05-14-10  
 1 of 20  
 SHEET

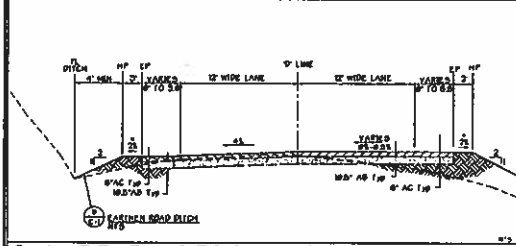




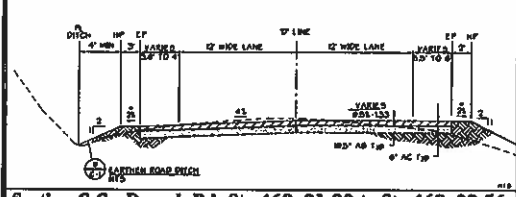
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Sta 467+45 to Sta 477+20**



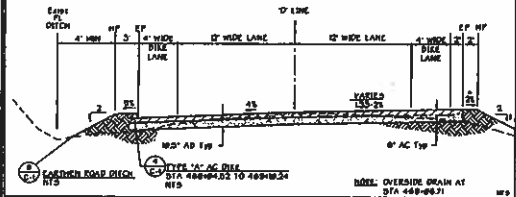
**Section A-A Durock Rd. Sta 467+46.80 to Sta 468+10.30**



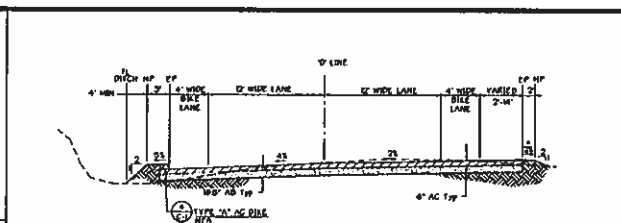
**Section B-B Durock Rd. Sta 468+10.30 to Sta 468+21.80**



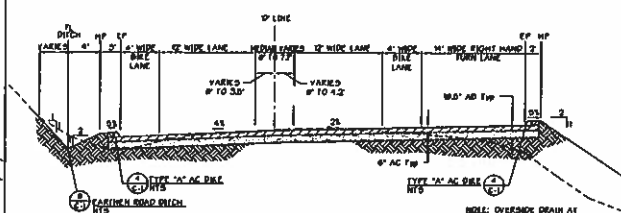
**Section C-C Durock Rd. Sta 468+21.80 to Sta 468+32.56**



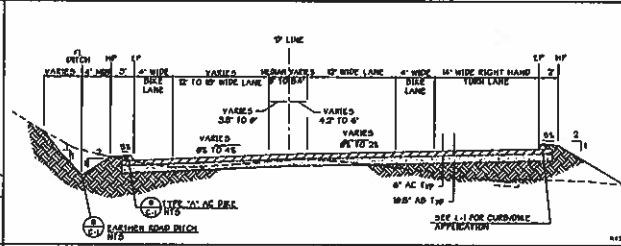
**Section D-D Durock Rd. Sta 468+32.56 to Sta 469+10.24**



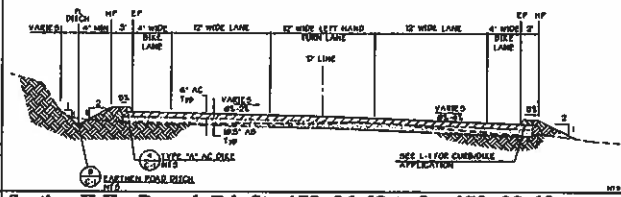
**Section E-E Durock Rd. Sta 469+10.24 to Sta 469+69.83**



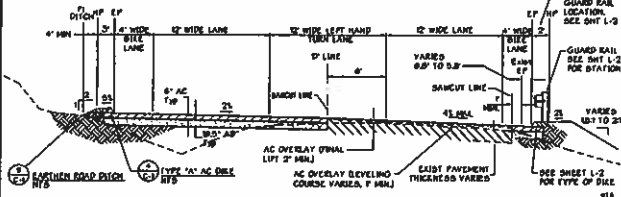
**Section F-F Durock Rd. Sta 469+69.83 to Sta 471+10.68**



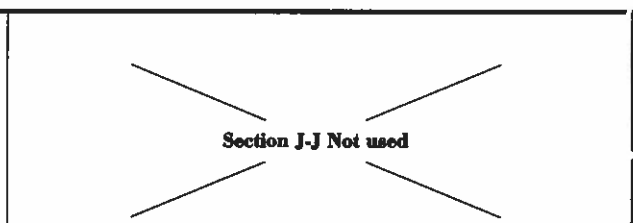
**Section G-G Durock Rd. Sta 471+10.68 to Sta 472+06.68**



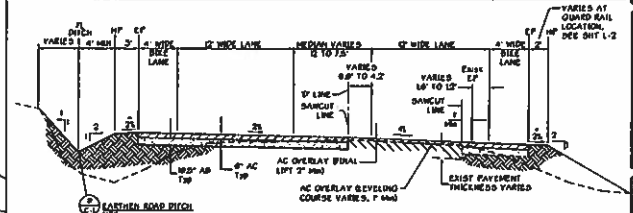
**Section H-H Durock Rd. Sta 472+06.68 to Sta 473+02.68**



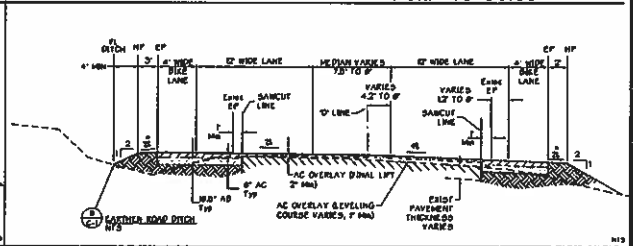
**Section I-I Durock Rd. Sta 473+02.68 to Sta 474+74.31**



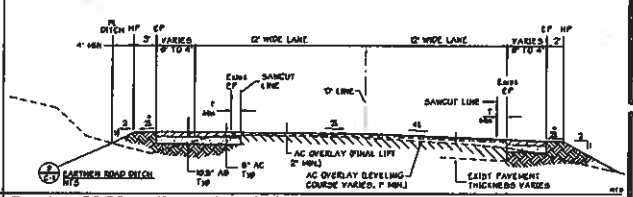
**Section J-J Not used**



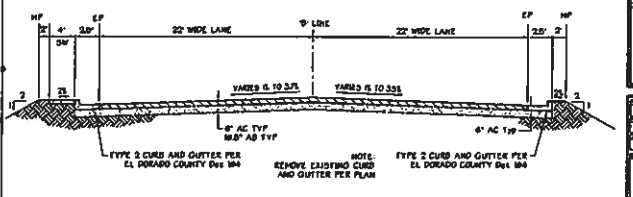
**Section K-K Durock Rd. Sta 474+74.31 to Sta 475+50.00**



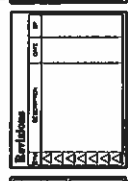
**Section L-L Durock Rd. Sta 475+50.00 to Sta 476+77.16**



**Section M-M Durock Rd. Sta 476+77.16 to Sta 477+18.15**



**Section N-N Business Drive**



**DUROCK ROAD & BUSINESS DRIVE  
TRAFFIC SIGNAL & INTERSECTION WIDENING  
TYPICAL ROADWAY SECTIONS**

COUNTY OF EL DORADO  
DEPARTMENT OF  
TRANSPORTATION  
Unusually Informative  
SUBMITTAL DATE: 05-14-10

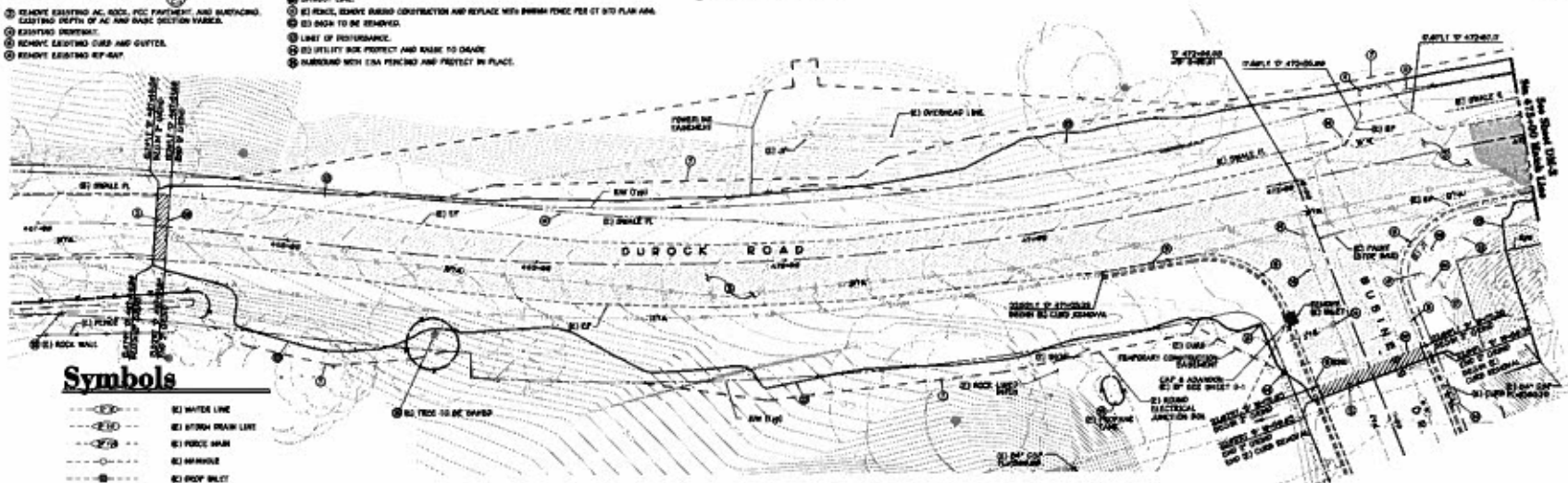


**Construction Notes**

- 1. NEW USER
- 2. PROVIDE AT LEAST MINIMUM ADEQUATE GRASS TO PROVIDE SAFETY TRANSITION TO EXISTING PAVEMENT
- 3. REMOVE EXISTING AC, BASE, PCC, FILLMENT, AND SUBGRADE. EXISTING DEPTH OF AC AND BASE SECTION VARIES.
- 4. EXISTING SIDEWALK
- 5. REMOVE EXISTING CURB AND GUTTER
- 6. REMOVE EXISTING ST-40T
- 7. SLOPE CASHEMENT
- 8. REMOVE S1 CURB. SEE SHEET C-3 FOR DETAILS.
- 9. REMOVE S2 SIDEWALK
- 10. DRAINOUT LINE
- 11. S1 PAVEMENT, REMOVE EXISTING CONSTRUCTION AND REPLACE WITH BURNED FINE PFC ST 870 PLAN AREA
- 12. S2 PAVEMENT TO BE REMOVED
- 13. LIMIT OF DISTURBANCE
- 14. S3 UTILITY BOX PROTECT AND RAISE TO GRADE
- 15. SURROUND WITH 24" FENCING AND PROTECT IN PLACE
- 16. S3 LIGHT POLE TO BE REMOVED AND DISCARDED. THE ELECTRICAL SERVICE TO LIGHT POLE HAS BEEN REMOVED BY FIELD
- 17. CUT & CAP EXISTING SEWATION

**Symbols**

- S1 WATER LINE
- S2 STORM DRAIN LINE
- S3 FORCE MAIN
- S4 MANHOLE
- S5 DROP VALVE
- S6 DITCH or FLOWLINE
- S7 STREET LIGHT
- S8 CURBWAY
- S9 POLE & ANCHOR
- S10 RIGHT OF WAY
- S11 LIMIT OF DISTURBANCE
- S12 WATER VALVE

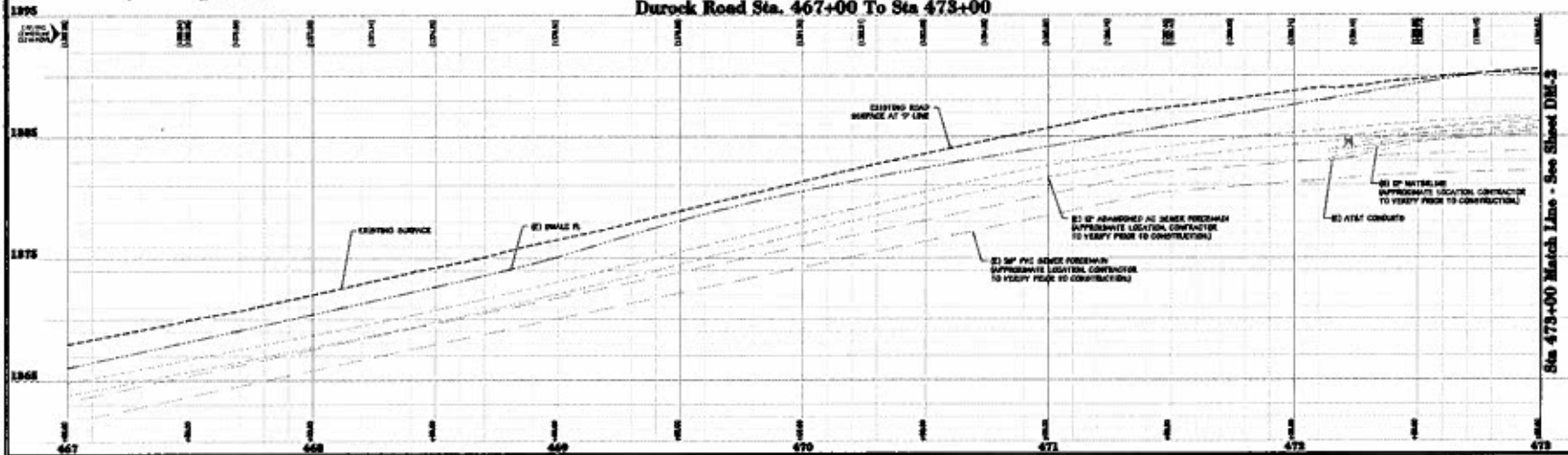


**Legend**

- INDICATED S1 AC TO BE REMOVED
- INDICATED S2 PAVEMENT TO BE REMOVED

**NOTES**  
 1. CONTRACTOR MUST POSITIVELY DETERMINE VERTICAL / HORIZONTAL LOCATION OF ALL S1 UTILITIES AND CORRECTNESS OF DRAINAGE SYSTEM PRIOR TO CONSTRUCTION OF ANY PORTION OF STREET.

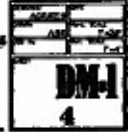
**Durock Road Sta. 467+00 To Sta 473+00**



Scale	AS SHOWN
North Arrow	AS SHOWN

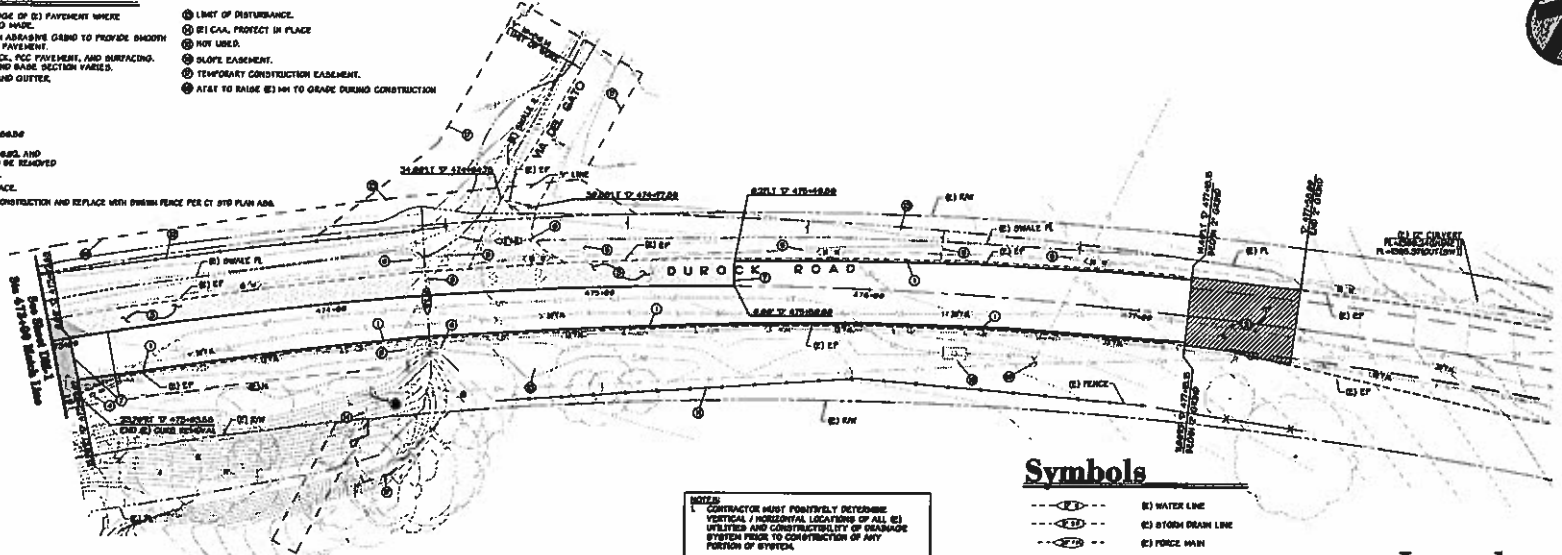
**BURROCK ROAD & BUSINESS DRIVE TRAFFIC SIGNAL & INTERSECTION WIDENING**  
**DUROCK ROAD STA 467+00 TO STA 473+00 DEMOLITION PLAN**

COUNTY OF EL DORADO DEPARTMENT OF TRANSPORTATION  
 SUBMITTAL DATE: 05-14-10



**Construction Notes**

- ① BANCUT (E) AC 7' FROM EDGE OF (E) PAVEMENT WHERE IMPROVEMENTS ARE BEING MADE.
- ② PROVIDE 2" DEEP HEAVY-DUTY ABRASIVE GRIND TO PROVIDE SMOOTH TRANSITION TO EXISTING PAVEMENT.
- ③ REMOVE EXISTING AC, ROCK, PCC PAVEMENT, AND SURFACING. EXISTING DEPTH OF AC AND BASE SECTION VARIES.
- ④ REMOVE EXISTING CURB AND GUTTER.
- ⑤ REMOVE (E) SIGNAGE.
- ⑥ REMOVE (E) HEADWALL.
- ⑦ BANCUT LINE.
- ⑧ (E) 24" CSP PL ROAD/ADJACENT TO BE REMOVED.
- ⑨ (E) 2" CP COP, PL - DISMANTLED, AND CONCRETE HEADWALLS TO BE REMOVED.
- ⑩ (E) JF, PROTECT IN PLACE.
- ⑪ (E) FENCE, PROTECT IN PLACE.
- ⑫ (E) FENCE, REMOVE DURING CONSTRUCTION AND REPLACE WITH SWISS FENCE PER CT STD PLAN A06.
- ⑬ LIMIT OF DISTURBANCE.
- ⑭ (E) CAA, PROTECT IN PLACE.
- ⑮ NOT USED.
- ⑯ SLOPE EASEMENT.
- ⑰ TEMPORARY CONSTRUCTION EASEMENT.
- ⑱ AT&T TO RAISE (E) MH TO GRADE DURING CONSTRUCTION.



**NOTES:**  
CONTRACTOR MUST POSITIVELY DETERMINE VERTICAL / HORIZONTAL LOCATIONS OF ALL (E) UTILITIES AND CONSTRUCTIBILITY OF DRAINAGE SYSTEM PRIOR TO CONSTRUCTION OF ANY PORTION OF SYSTEM.

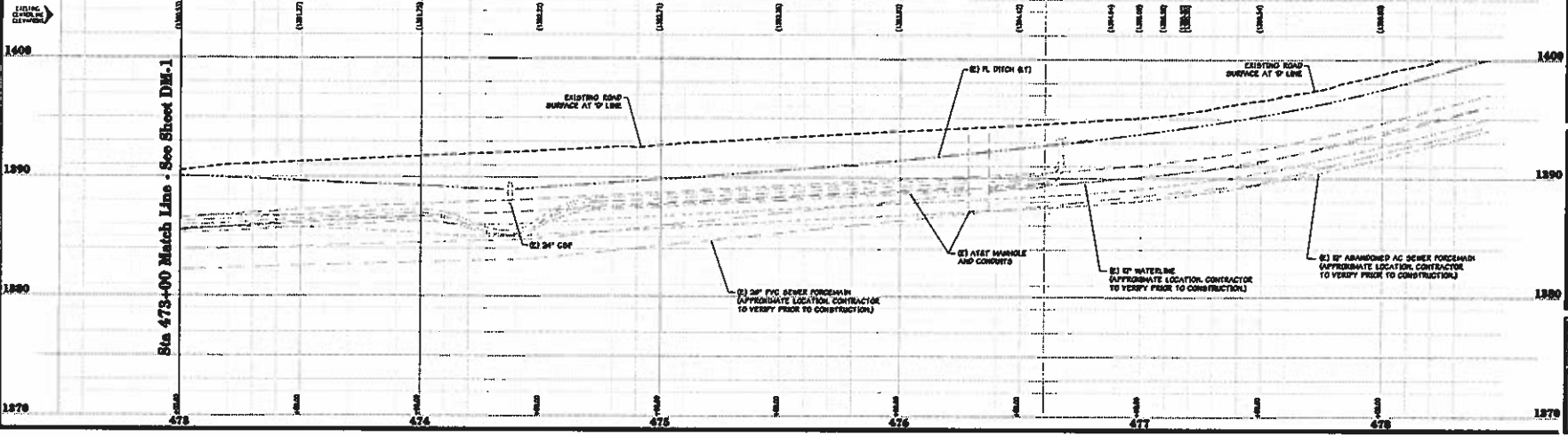
**Symbols**

- (Symbol) (E) WATER LINE
- (Symbol) (E) STORM DRAIN LINE
- (Symbol) (E) FORCE MAIN
- (Symbol) (E) MANHOLE
- (Symbol) (E) DROP PILEY
- (Symbol) (E) DITCH or FLOWLINE
- (Symbol) (E) STREET LIGHT
- (Symbol) (E) CURVEY
- (Symbol) (E) POLE & ANCHOR
- (Symbol) (E) RIGHT OF WAY
- (Symbol) (E) LIMIT OF DISTURBANCE
- (Symbol) (E) WATER VALVE

**Legend**

- (Symbol) INDICATED (E) AC TO BE REMOVED
- (Symbol) INDICATED 2" DEEP GRIND

**Durock Road Sta. 473+00 To Sta. 478+00**



Scale	AS SHOWN
Revision	

**DUROCK ROAD & BUSINESS DRIVE  
 TRAFFIC SIGNAL & INTERSECTION WIDENING  
 DUROCK ROAD STA 473+00 TO  
 STA 478+00 DEMOLITION PLAN**

COUNTY OF EL DORADO  
 DEPARTMENT OF  
 TRANSPORTATION  
 (Transparency Information)  
 SUBMITTAL DATE: 05-14-10





**Construction Notes**

- 1 PLACE AC OVERLAY, 2" THICK LIFT.
- 2 PLACE 6" AC OVER M&P CLASS 2 AB, COMPACT ENGINEERED FILL AND SUBGRADE PER CALTRANS STANDARD SPECIFICATION 9-6.02.
- 3 CONSTRUCT TYPE 'W' AC BASE, PER DETAIL.
- 4 PLACE 2" AC OVER 2" CLASS 2 AB, COMPACT ENGINEERED FILL AND SUBGRADE PER CALTRANS STANDARD SPECIFICATION 9-6.02.
- 5 CONSTRUCT ROADSIDE DITCH PER DETAIL.
- 6 CONSTRUCT 76 IN OF GRADED RAIL BTD PLAN AFTER TYPE NO LAYERS PER BTD PLAN AT THE DETAIL. WITH TERMINAL OF SYSTEM (RT) PER OF BTD PLAN APPLI A TERMINAL ANCHOR ASSEMBLY (TYPE) DITCH PER OF BTD PLAN AT THE DETAIL.
- 7 SLOPE EMBANKMENT.
- 8 TEMPORARY CONSTRUCTION EMBANKMENT.
- 9 NOT USED.
- 10 AT AT HURDLE TO BE RAISED TO GRADE BY AT&T.
- 11 EMBANKMENT SHALL BE PLACED AT THE SW AND OUTSIDE EDGE OF TIE, AND AROUND AREAS INDICATED ON THE PLANS, INCLUDING CONTRACTOR TIES TO PROTECT EXISTING TREE.
- 12 AT AT COMPUTE.
- 13 REMOVE EXISTING FENCE.

**'D' Line Tabulation**

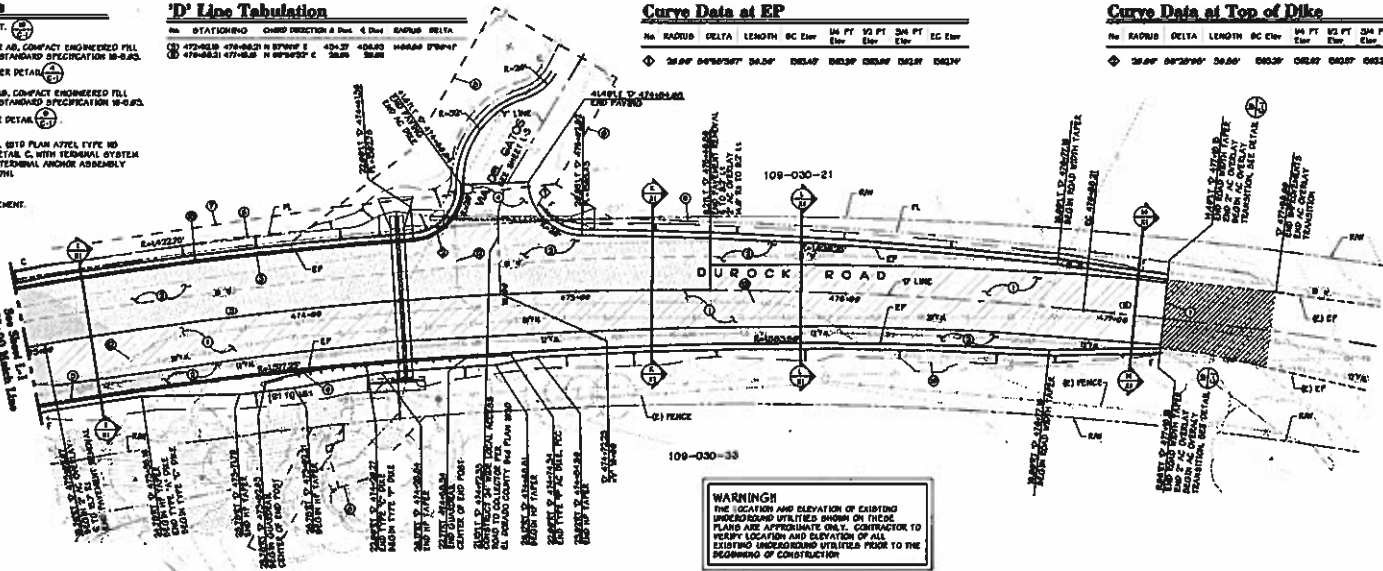
STATIONING	CHORD BEARING & Dist.	Δ Dist.	Δ BEARING	BEARING
473+00.00	474+00.00 N 89°00'00" E	434.29'	458.63'	100.00° 00' 00" E
474+00.00	475+00.00 N 89°00'00" E	328.98'	328.98'	100.00° 00' 00" E

**Curve Data at EP**

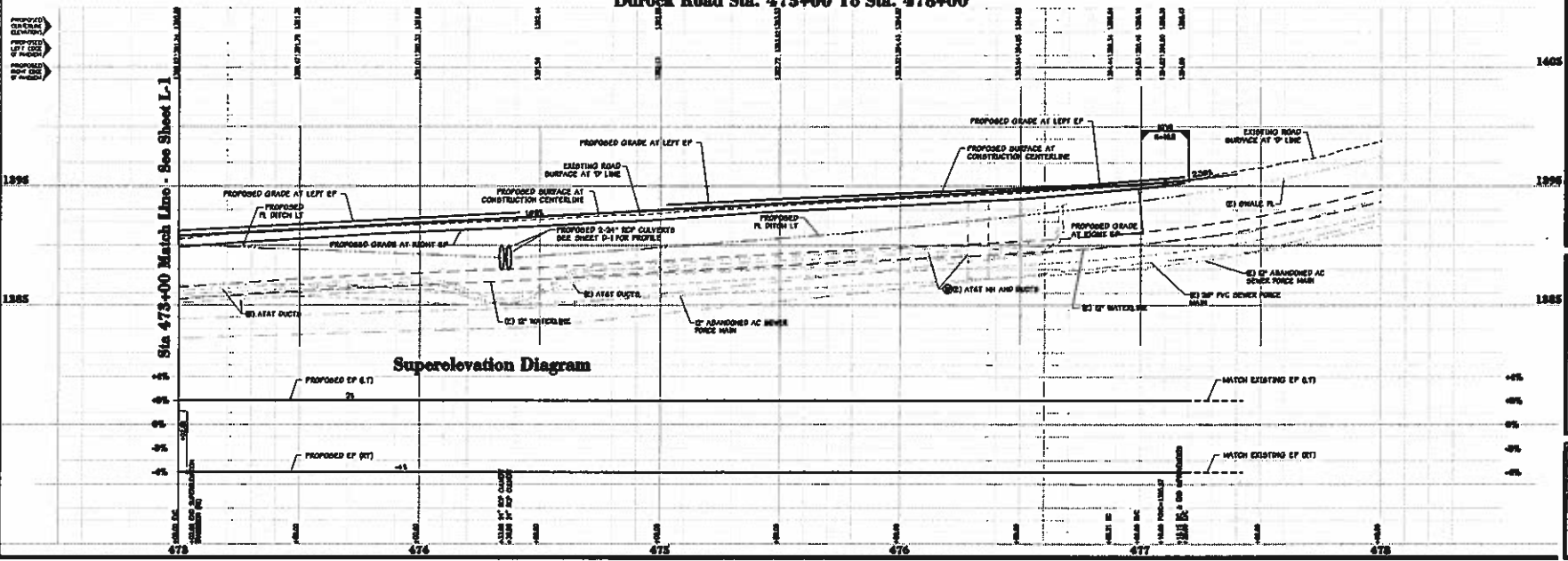
No.	RADIUS	DELTA	LENGTH	PC Elev	SA PT	PT Elev	EC Elev
1	28.89'	94°20'00"	58.00'	1882.27'	1882.27'	1882.27'	1882.27'

**Curve Data at Top of Dike**

No.	RADIUS	DELTA	LENGTH	PC Elev	SA PT	PT Elev	EC Elev
1	28.89'	94°20'00"	58.00'	1882.27'	1882.27'	1882.27'	1882.27'



**Durock Road Sta. 473+00 To Sta. 478+00**



**Superlevation Diagram**



NO.	DESCRIPTION
1	
2	
3	
4	
5	
6	
7	
8	
9	
10	

**DUROCK ROAD & BUSINESS DRIVE**  
**TRAFFIC SIGNAL & INTERSECTION WIDENING**  
**DUROCK ROAD STA 473+00 TO**  
**STA 478+00 IMPROVEMENT PLAN**

COUNTY OF EL DORADO  
 DEPARTMENT OF  
 TRANSPORTATION  
 SUBMITTAL DATE: 05-14-10





### 'B' Line Tabulation

No.	E	STATIONING	CHORD	DIRECTION	& Dist	< Dist	RADIUS	DELTA
(1)	100+00.00	100+00.00	0	97°07'47" E	231.68			

### Construction Notes

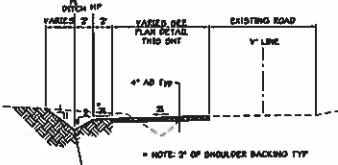
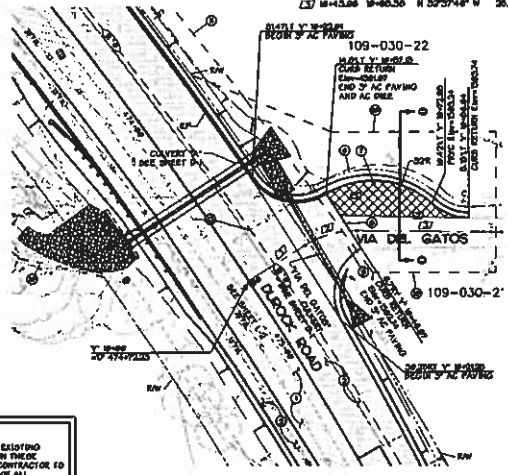
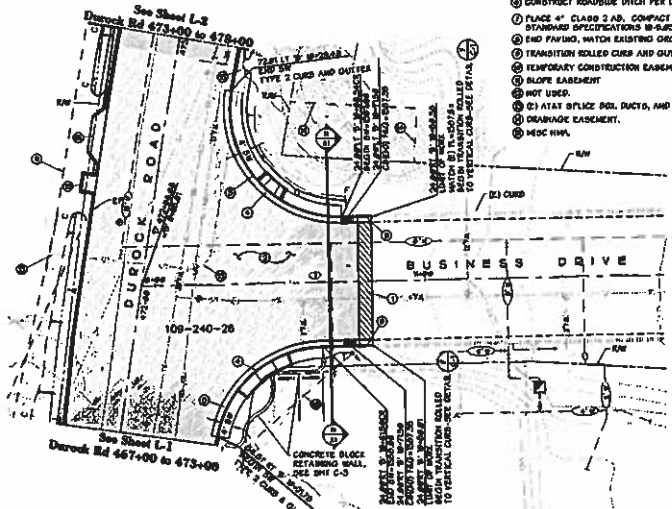
- ① PLACE AC OVERLAY, 2" FINAL LEFT AND P INK LEVELING COURSE.
- ② PLACE 8" AC OVER 80% CLASS 2 AS, COMPACT ENGINEERED FILL AND SUBGRADE PER CALTRANS STANDARD SPECIFICATION 8-4.3.
- ③ CONSTRUCT TYPE 3 VERTICAL CURB AND GUTTER PER EL DORADO COUNTY STD PLAN 804.
- ④ CONSTRUCT CURB RAMP, PER DETAIL 101.
- ⑤ PLACE 3" AC OVER 8" CLASS 2 AS, COMPACT ENGINEERED FILL AND SUBGRADE PER CALTRANS STANDARD SPECIFICATION 8-4.3.
- ⑥ CONSTRUCT ROADSIDE DITCH PER DETAIL 102.
- ⑦ PLACE 4" CLASS 2 AS, COMPACT ENGINEERED FILL PER CALTRANS STANDARD SPECIFICATION 8-4.3.
- ⑧ END PAVING, MATCH EXISTING GROUND.
- ⑨ TRANSITION ROLLED CURB AND GUTTER TO VERTICAL CURB.
- ⑩ TEMPORARY CONSTRUCTION EASEMENT.
- ⑪ SLOPE EASEMENT.
- ⑫ SUT LINES.
- ⑬ (1) ATAT SPLICE BOX, DUCTS, AND MANHOLE.
- ⑭ DRAINAGE EASEMENT.
- ⑮ MEDC HWY.

### Curve Data

No.	E	STATIONING	CHORD	DIRECTION	& Dist	< Dist	RADIUS	DELTA
(1)	9+00.00	9+23.36	18°07'13" E	36.20	42.26	32.88	70'12"00"	
(2)	9+23.36	9+47.26	11°37'39" E	14.84	14.89	20.89	42°00'48"	

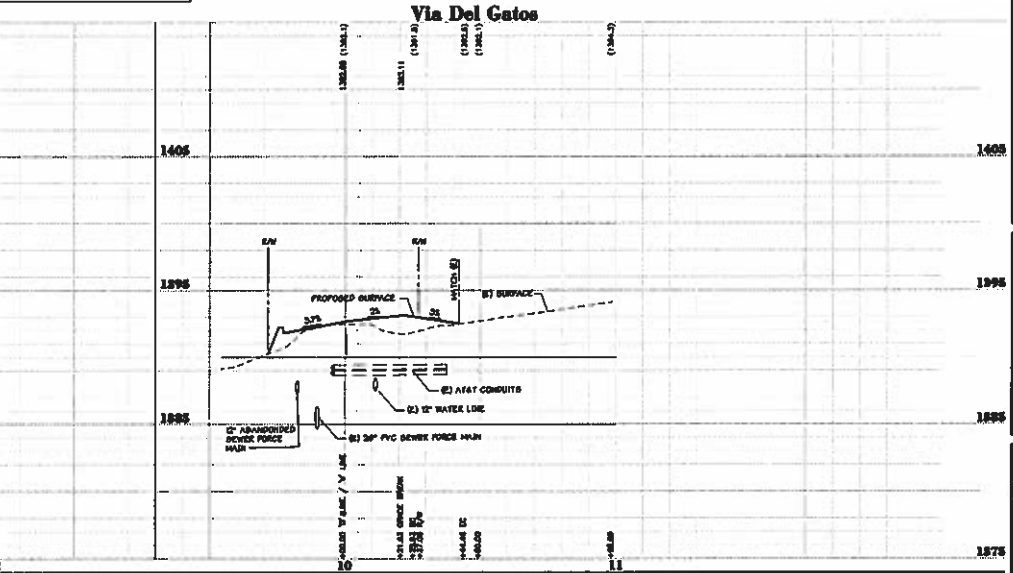
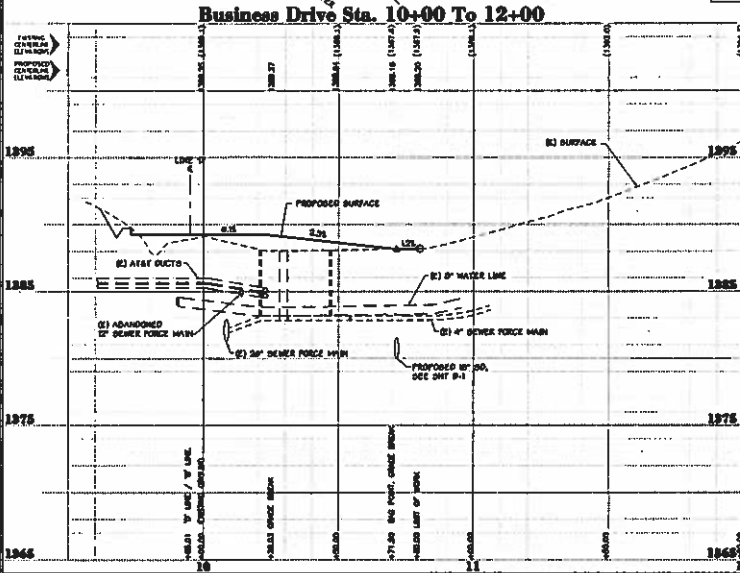
### 'V' Line Tabulation

No.	E	STATIONING	CHORD	DIRECTION	& Dist	< Dist	RADIUS	DELTA
(1)	10+00.00	10+25.42	11°03'37" E	54.47				
(2)	10+25.42	10+43.84	11°02'03" E	18.20	18.85	32.88	55°00'00"	
(3)	10+43.84	10+62.36	11°57'44" W	36.42				



Section O-O Via Del Gatos

**WARNING!!**  
THE LOCATIONS AND ELEVATION OF EXISTING UNDERGROUND UTILITIES SHOWN ON THESE PLANS ARE APPROXIMATE ONLY. CONTRACTOR TO VERIFY LOCATION AND ELEVATION OF ALL EXISTING UNDERGROUND UTILITIES PRIOR TO THE BEGINNING OF CONSTRUCTION.



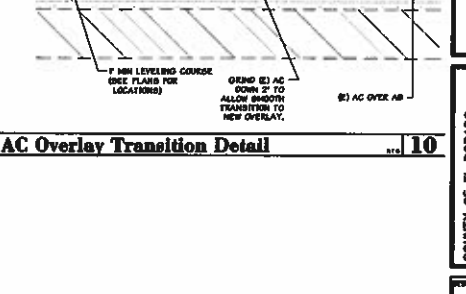
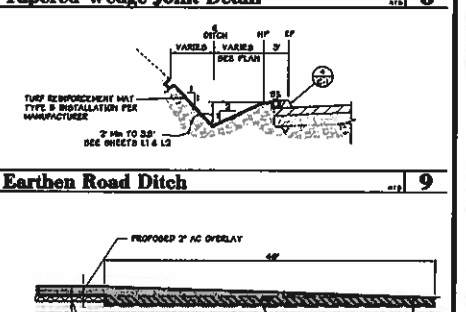
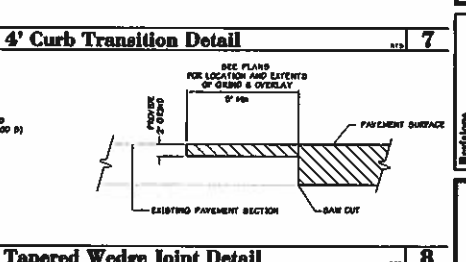
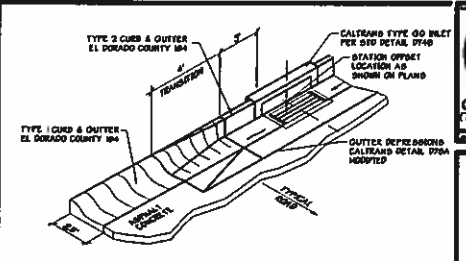
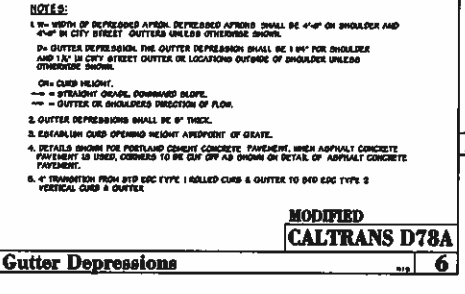
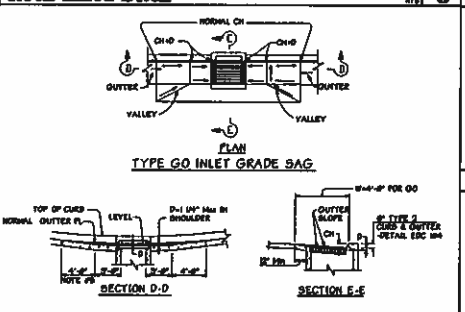
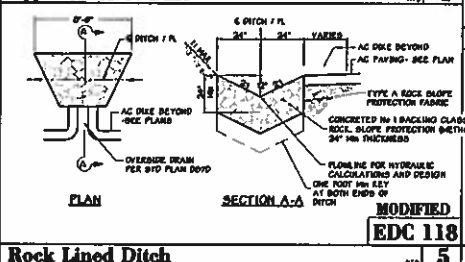
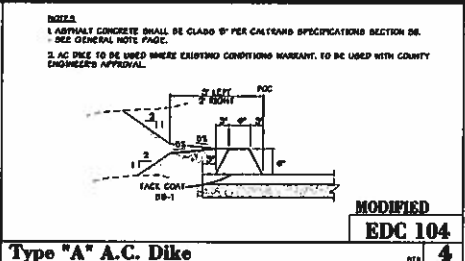
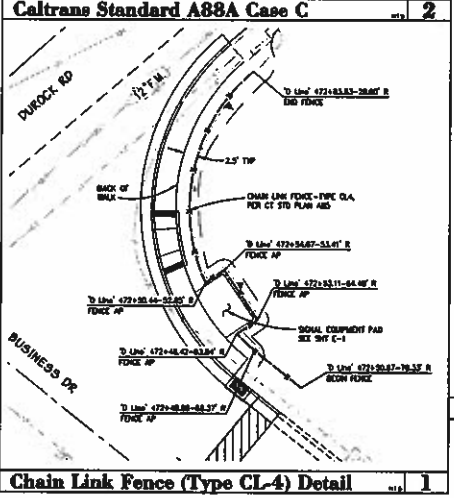
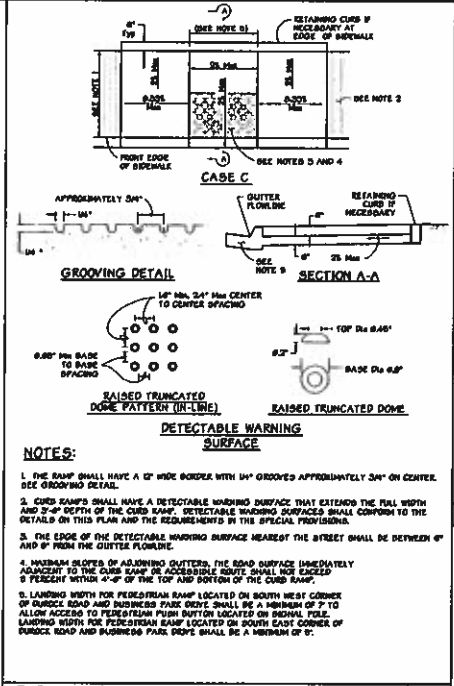
DATE	DESCRIPTION

**BURECK ROAD & BUSINESS DRIVE**  
**TRAFFIC SIGNAL & INTERSECTION WIDENING**  
**BUSINESS DRIVE STA 10+00 TO STA 12+00,**  
**VIA DEL GATOS IMPROVEMENT PLAN**

COUNTY OF EL DORADO  
 DEPARTMENT OF  
 TRANSPORTATION  
 SUBMITTAL DATE: 05-14-10







DATE	
BY	
CHECKED	
APPROVED	

**DURACK ROAD & BUSINESS DRIVE TRAFFIC SIGNAL & INTERSECTION WIDENING DETAILS**

DATE: 05-14-10

COUNTY OF EL DORADO DEPARTMENT OF TRANSPORTATION

MEMBERSHIP INFORMATION

SUBMITTAL DATE: 05-14-10

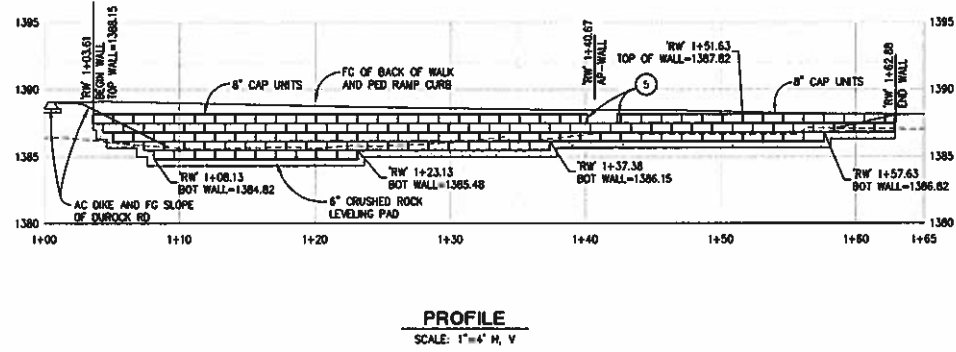
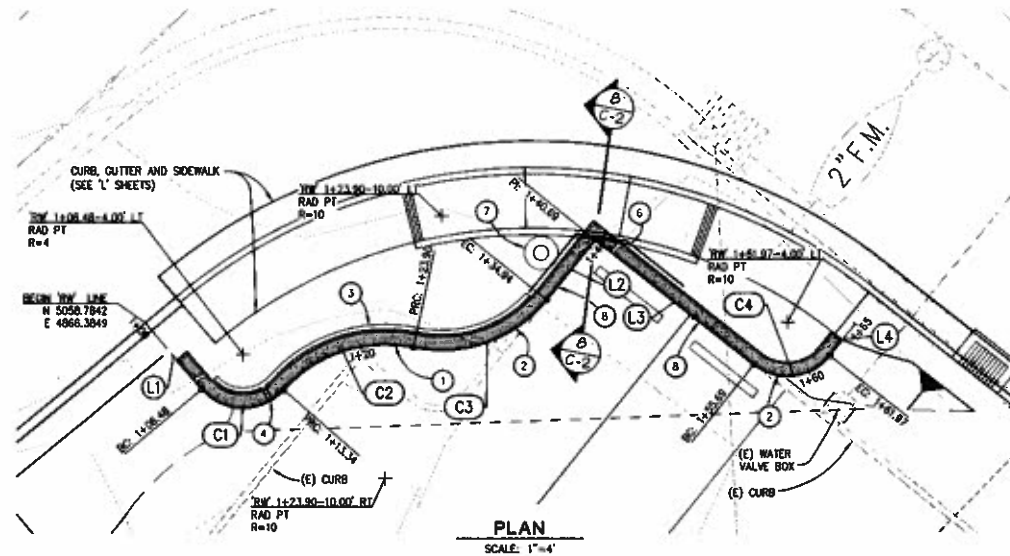




'RW' LINE				
NUMBER	LENGTH	RADIUS	LINE / CHORD DIRECTION & LENGTH	DELTA
L1	6.48		S 40° 22' 12" E	
C1	6.86	4.00	S 89° 28' 21" E - 6.05	88° 12' 17"
C2	10.56	10.00	N 71° 40' 37" E - 10.08	60° 30' 13"
C3	11.04	10.00	N 70° 17' 56" E - 10.49	63° 15' 30"
L2	5.75		N 38° 40' 13" E	
L3	15.00		S 51° 33' 55" E	
C4	6.28	4.00	N 83° 26' 05" E - 5.66	90° 00' 00"
L4	3.03		N 38° 26' 05" E	

**CONSTRUCTION NOTES:**

- ① - CONCRETE BLOCK WALL: KEYSTONE, VERSA-LOK, OR EQUIVALENT. LOL OF RETAINING WALL IS FACE OF BOTTOM COURSE.
- ② - SAWCUT AND REMOVE EXISTING CURB FROM STA 'RW' 1+31.75 TO 'RW' 1+57.75. RECONSTRUCT CURB FLUSH TO FACE OF BLOCK WALL AT EACH END.
- ③ - 4" FLEXIBLE PERF DRAIN PIPE, S=0.020. STA 'RW' 1+06.00± TO 'RW' 1+34.50±.
- ④ - PROVIDE OPENING THROUGH BLOCK WALL FOR DRAIN PIPE. PLACE RODENT SCREEN AT EACH TERMINAL END.
- ⑤ - CAP UNITS LOCATED IMMEDIATELY BEHIND SIDEWALK CURB WILL BE PLACED AFTER SIDEWALK AND CURB ARE CONSTRUCTED, AND WILL BE SAWCUT TO ABUT DIRECTLY AGAINST BACK OF SIDEWALK CURB.
- ⑥ - TUBULAR METAL RAILING. SEE DETAIL 4A, SHT C-2.
- ⑦ - SIGNAL POLE FOUNDATION. SEE SHT E-1.
- ⑧ - IF ADJACENT PARKING LOT IS DAMAGED DURING CONCRETE STONE BLOCK RETAINING WALL CONSTRUCTION, THE CONTRACTOR SHALL SAWCUT AND REPLACE EXISTING DAMAGED PARKING LOT WITH 3" MMA (A) OVER 8" AB (CLASS 2). SAWCUT SHALL RUN CONTINUOUSLY PARALLEL WITH THE FACE OF THE NEW STONE BLOCK RETAINING WALL.



1 CONCRETE STONE BLOCK RETAINING WALL



DATE	11/11/10
BY	AS
PROJECT	DUROCK ROAD & BUSINESS DRIVE
DESCRIPTION	TRAFFIC SIGNAL & INTERSECTION WIDENING

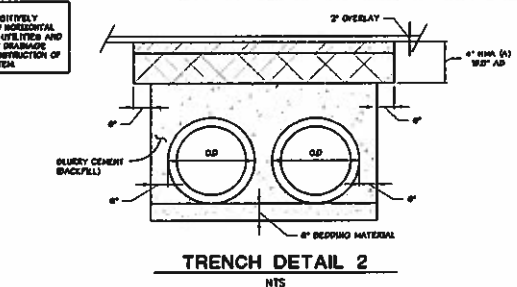
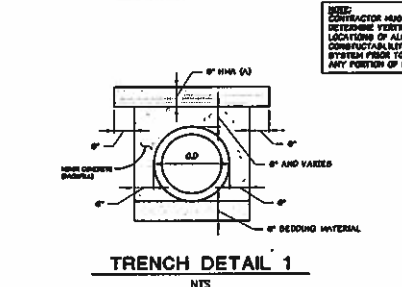
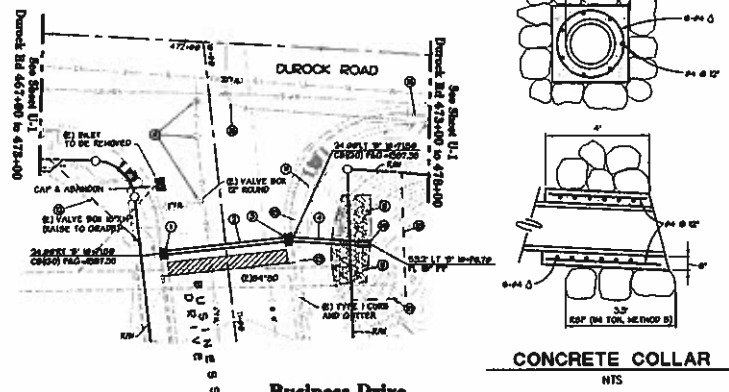
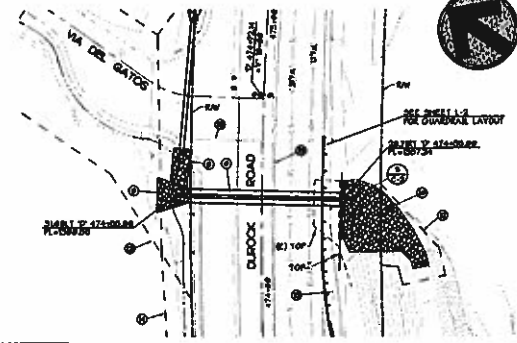
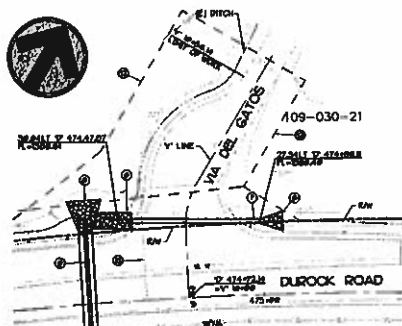
**DUROCK ROAD & BUSINESS DRIVE**  
**TRAFFIC SIGNAL & INTERSECTION WIDENING**  
**WALL DETAILS**

COUNTY OF EL DORADO  
 DEPARTMENT OF  
 TRANSPORTATION  
 SUBMITTAL DATE: 05-14-10

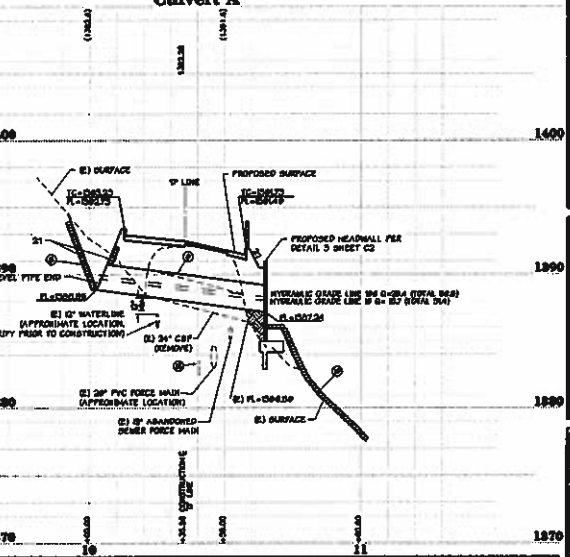
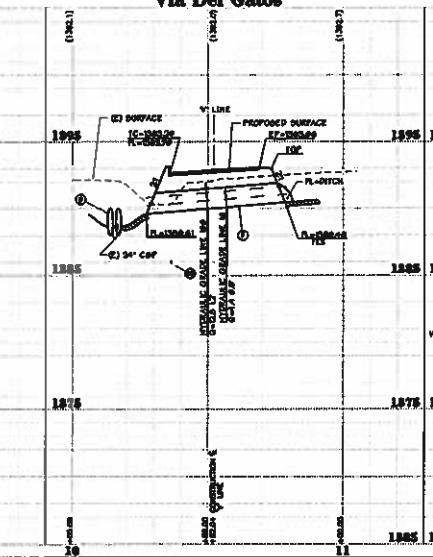
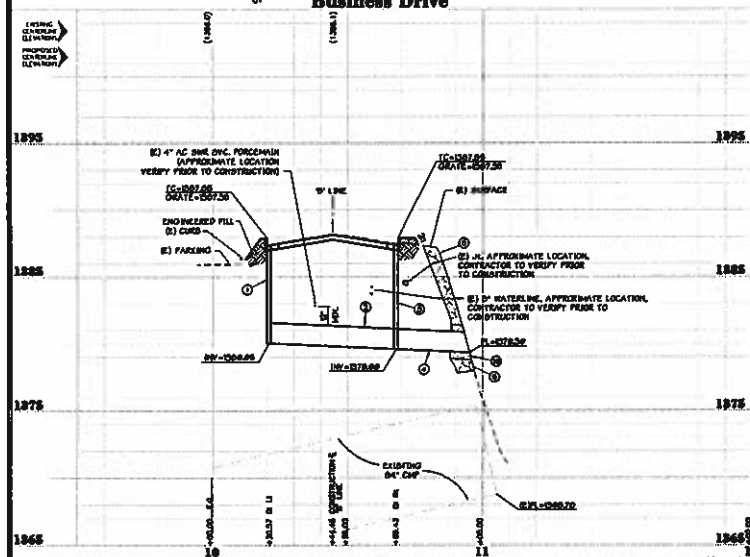
Scale: 1"=4'  
 1"=4' H, V

**Construction Notes**

1. INSTALL CALTRANS TYPE OO DRAIN BUILT PER DETAIL D749, WITH 60#-120 GRATE.
2. INSTALL 47 1/2" 1/2" RCP (SMOOTHWALL) STORM DRAIN.
3. INSTALL CALTRANS TYPE OO DRAIN BUILT PER DETAIL D749, WITH 60#-120 GRATE.
4. INSTALL 36 1/2" 1/2" RCP (SMOOTHWALL) STORM DRAIN.
5. REMOVE AND REPLACE EXISTING R/W (BY TOOL METHOD B) AS NECESSARY TO CONSTRUCT DRAINAGE SYSTEM.
6. ADJUST EXISTING UTILITIES TO FINISHED GRADE.
7. INSTALL 65 1/2" RCP, WITH 75# PER CT 010 PLAN 094A, SEE TRENCH DETAIL 1.
8. BUILT-UP SLOPE PROTECTION PER 044 DRAWING T-594 WITH CONCRETE ROCK SLOPE PROTECTION No. 1 BACKING CLASS, METHOD B PLACEMENT WITH TYPE A ROCK SLOPE PROTECTION FABRIC.
9. INSTALL 42 1/2" RCP CULVERTS, SEE TRENCH DETAIL 2.
10. CONCRETE ROCK SLOPE PROTECTION HAS BACKING CLASS, METHOD B PLACEMENT WITH TYPE B ROCK SLOPE PROTECTION FABRIC.
11. 6" W/ TO REMAIN RAISE TO FINISHED GRADE.
12. TEMPORARY CONSTRUCTION EASEMENT.
13. APPROXIMATE LOCATION (E) J, VERIFY PRIOR TO START OF CONSTRUCTION.
14. SLOPE EASEMENT.
15. (E) AT ST DUCTS, AND SPLICE BOX.
16. CONCRETE COLLAR PER DETAIL THIS SHEET.
17. NOTE: TOP OF PIPES (E) AND (E) TO BE WITHIN 2" OF FINISHED GRADE. USE CAUTION WHEN OPERATING EQUIPMENT IN VICINITY OF PIPES.
18. DRAINAGE EASEMENT.



NOTE: CONTRACTOR MUST POSITIVELY DETERMINE VERTICAL / HORIZONTAL LOCATIONS OF ALL UTILITIES AND CONFIRMABILITY OF DRAINAGE SYSTEM PRIOR TO CONSTRUCTION OF ANY PORTION OF STREET.



DATE	DESCRIPTION

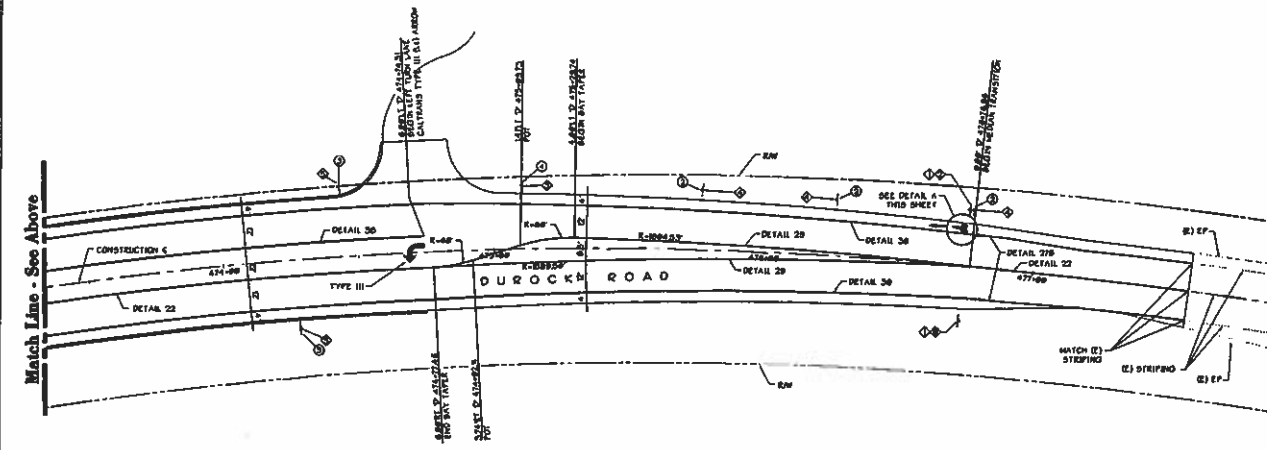
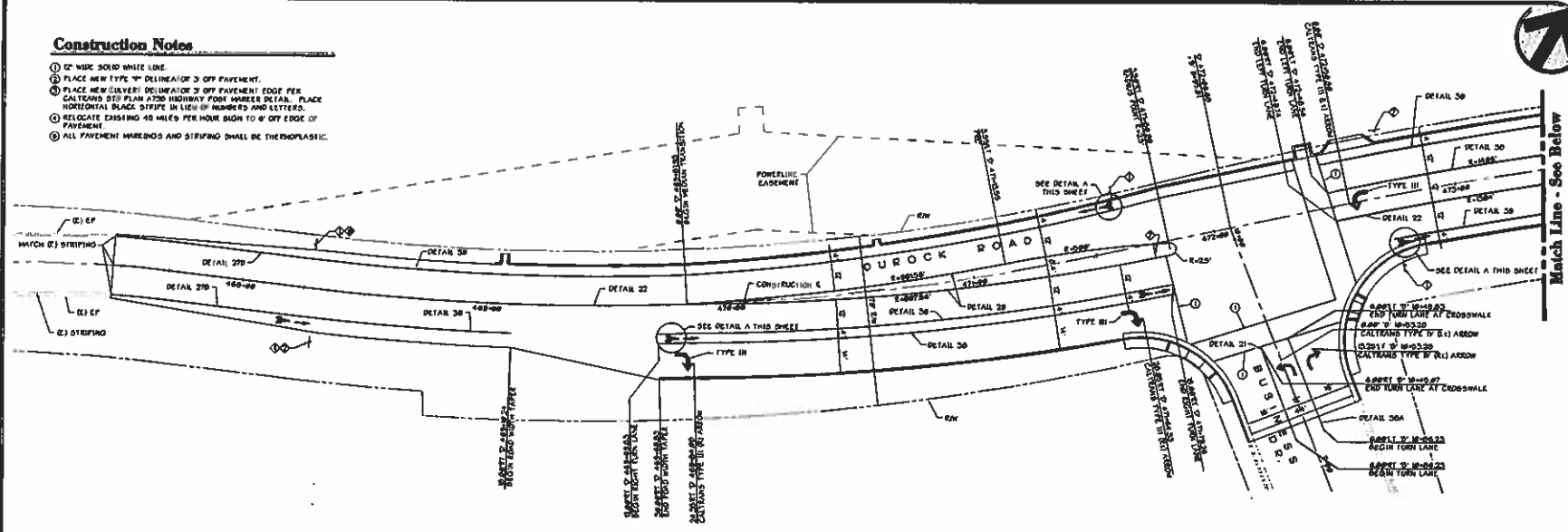
**BURCKE ROAD & BUSINESS DRIVE  
TRAFFIC SIGNAL & INTERSECTION WIDENING  
STORM DRAIN  
PLAN AND PROFILES**

COUNTY OF EL DORADO  
DEPARTMENT OF  
TRANSPORTATION  
SUBMITTAL DATE: 05-14-10



**Construction Notes**

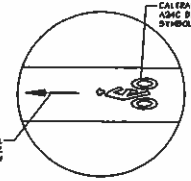
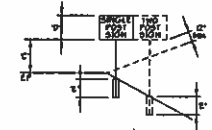
- ① 12" WIDE SOLID WHITE LINE
- ② PLACE NEW TYPE "M" DELINEATOR 3' OFF PAVEMENT.
- ③ PLACE NEW CALTRANS DELINEATOR 3' OFF PAVEMENT EDGE PER CALTRANS DETAIL PLAN 7300 HIGHWAY FORD MARKER DETAIL. PLACE HORIZONTAL BLACK STRIPE IN LIEU OF NUMBERS AND LETTERS.
- ④ RELOCATE EXISTING 48 MARKS PER HOUR SIGN TO 6' OFF EDGE OF PAVEMENT
- ⑤ ALL PAVEMENT MARKINGS AND STRIPING SHALL BE THERMOPLASTIC.



**ROADSIDE SIGN QUANTITIES**

SHEET No.	SIGN No.	CODE	ROADSIDE SIGN		REMARKS
			ONE POST	TWO POST	
31	1	RS1	1	1	
31	2	RS2	1	1	
31	3	TYPE "M" DELINEATOR	1	1	
31	4	CULVERT DELINEATOR	1	1	
31	5	RS3	1	1	
31	6	RS-2	1	1	

NOTE: EXACT LOCATION AND POSITION OF ROADSIDE SIGNS TO BE DETERMINED BY THE ENGINEER.



**Detail A**



DATE	DESCRIPTION

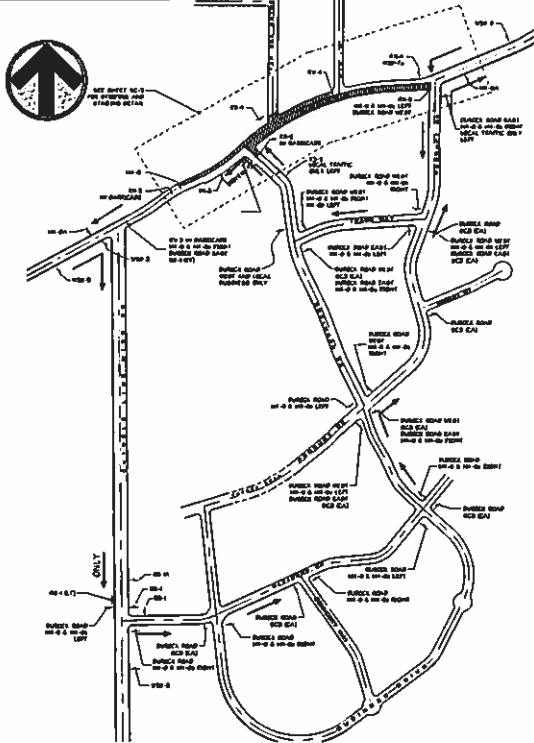
**DUROCK ROAD & BUSINESS DRIVE TRAFFIC SIGNAL & INTERSECTION WIDENING SIGNING & STRIPING PLAN**

COUNTY OF EL DORADO DEPARTMENT OF TRANSPORTATION  
 SUBMITTAL DATE: 05-14-10

DESIGNER	CHECKED
DRAWN	DATE
SCALE	BY



**Detour Plan Stage 1**



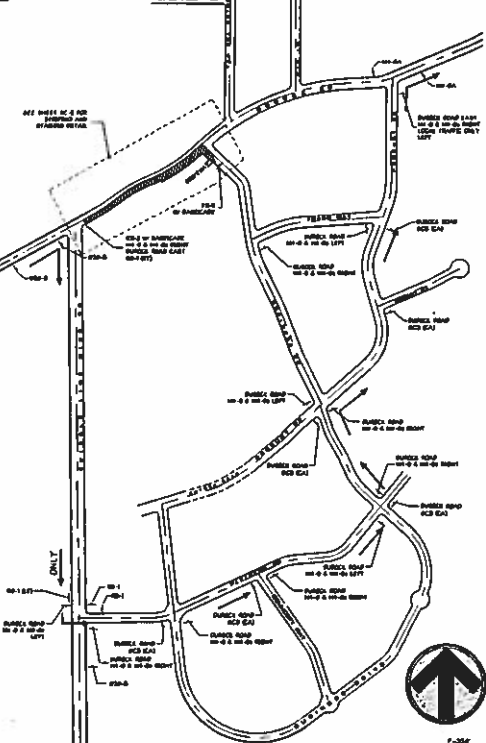
**Stage 1 Construction Notes**

1. DURING THIS STAGE, CONTRACTOR MUST MAINTAIN ACCESS TO ALL BUSSESSED AT ALL TIMES.
2. DURING THIS STAGE CONTRACTOR SHALL REPAIR 21 PAVEMENT SECTION BASE AND REGRADE, PREPARE NEW SURGRADE AND INSTALL 4" OF AC AND LEVELING COURSE, WHERE APPLICABLE.
3. REFER TO "MAINTAINING TRAFFIC" SECTION OF SPECIAL PROVISIONS FOR ALLOWABLE CONSTRUCTION WORKS AND TRAFFIC LANE RESTRICTIONS.
4. ALL SIGNS, BARRIERS, AND CHANNELLED DEVICES USED DURING NIGHTTIME SHALL BE EITHER RETRO-REFLECTIVE WITH A SMOOTH, SEALED OUTER SURFACE OR LUMINESCENT TO SHOW THE SAME SHAPE AND SIMILAR COLOR FOR BOTH DAY AND NIGHT.
5. DURING THIS STAGE CONTRACTOR SHALL PROVIDE SAME ACCESS TO RESIDENTS OF VIA DEL GATOS AND PIN LANE, A 100' BY 100' COMPACTED AS UNLESS OTHERWISE APPROVED BY THE ENGINEER.
6. DURING THIS STAGE, CONTRACTOR SHALL USE PORTABLE CHANGEABLE MESSAGE SIGNS (PCMS) TO WARN TRAILERS AND LARGE TRUCKS ABOUT THE DETOUR ON BURROCK ROAD. CONTRACTOR SHALL PLACE A PCMS ON HWY. 99 (SB) BEFORE THE CAMERON PARK RD RAMP TO DIRECT TRAILERS AND LARGE TRUCKS TO USE THE FONDEOSA RD RAMP TO ACCESS BURROCK RD. ANOTHER PCMS SHALL BE PLACED ON CAMERON PARK DRIVE @ GOSH LANE TO DIRECT TRAILERS AND LARGE TRUCKS TO USE FONDEOSA RD TO ACCESS BARNETT BUSINESS PARK. CONTRACTOR SHALL CONFORM WITH THE SPECIFICATIONS ON SECTION 0595 "PORTABLE CHANGEABLE MESSAGE SIGNS" IN THE SPEC AND THE SPECIAL PROVISIONS. SEE ENGINEER FOR COUNTY COPY OF PCMS ENCROACHMENT PERMIT FROM CALTRANS. CONTRACTOR TO ALSO OBTAIN PCMS ENCROACHMENT PERMIT FROM CALTRANS.
7. CONTRACTOR SHALL INSTALL ALL UNDERGROUND FACILITIES, INCLUDING: STORM DRAIN REPLACEMENT, SIGNAL CONDUITS, SIGNAL FOUNDATION.
8. ANY OPEN TRENCH SHALL BE SHOVED UP AND PLATED EACH WORK DAY BEFORE LEAVING JOB SITE. RECORDS 1/2" RESISTANT TRENCH PLATES SHALL BE USED.
8. STAGE 1 ALLOW BUSINESS DRIVE HW TRAFFIC TO ED BURROCK ROAD ONLY.

**Detour Plan Stage 2**

**Stage 2 Construction Notes**

1. DURING THIS STAGE, CONTRACTOR MUST MAINTAIN ACCESS TO ALL BUSSESSED AT ALL TIMES.
2. DURING THIS STAGE CONTRACTOR SHALL REPAIR 21 PAVEMENT SECTION, BASE AND REGRADE, PREPARE NEW SURGRADE AND INSTALL 4" OF AC, WHERE APPLICABLE.
3. REFER TO "MAINTAINING TRAFFIC" SECTION OF SPECIAL PROVISIONS FOR ALLOWABLE CONSTRUCTION WORKS AND TRAFFIC LANE RESTRICTIONS.
4. ALL SIGNS, BARRIERS, AND CHANNELLED DEVICES USED DURING NIGHTTIME SHALL BE EITHER RETRO-REFLECTIVE WITH A SMOOTH, SEALED OUTER SURFACE OR LUMINESCENT TO SHOW THE SAME SHAPE AND SIMILAR COLOR FOR BOTH DAY AND NIGHT.
5. DURING THIS STAGE, CONTRACTOR SHALL USE PORTABLE CHANGEABLE MESSAGE SIGNS (PCMS) TO WARN TRAILERS AND LARGE TRUCKS ABOUT THE DETOUR ON BURROCK ROAD. CONTRACTOR SHALL PLACE A PCMS ON HWY. 99 (SB) BEFORE THE CAMERON PARK RD RAMP TO DIRECT TRAILERS AND LARGE TRUCKS TO USE THE FONDEOSA RD RAMP TO ACCESS BURROCK RD. ANOTHER PCMS SHALL BE PLACED ON CAMERON PARK DRIVE @ GOSH LANE TO DIRECT TRAILERS AND LARGE TRUCKS TO USE FONDEOSA RD TO ACCESS BARNETT BUSINESS PARK. CONTRACTOR SHALL CONFORM WITH THE SPECIFICATIONS ON SECTION 0595 "PORTABLE CHANGEABLE MESSAGE SIGNS" IN THE SPEC AND THE SPECIAL PROVISIONS. SEE ENGINEER FOR COUNTY COPY OF PCMS ENCROACHMENT PERMIT FROM CALTRANS. CONTRACTOR TO OBTAIN PCMS ENCROACHMENT PERMIT FROM CALTRANS.
6. CONTRACTOR SHALL INSTALL ALL UNDERGROUND FACILITIES, INCLUDING: STORM DRAIN REPLACEMENT, SIGNAL CONDUITS, SIGNAL FOUNDATION, ETC.
7. ANY OPEN TRENCH SHALL BE SHOVED UP AND PLATED EACH WORK DAY BEFORE LEAVING JOB SITE. RECORDS 1/2" RESISTANT TRENCH PLATES SHALL BE USED.
8. STAGE 2 ALLOW BUSINESS DRIVE HW TRAFFIC TO ED BURROCK ROAD ONLY.



**Legend**

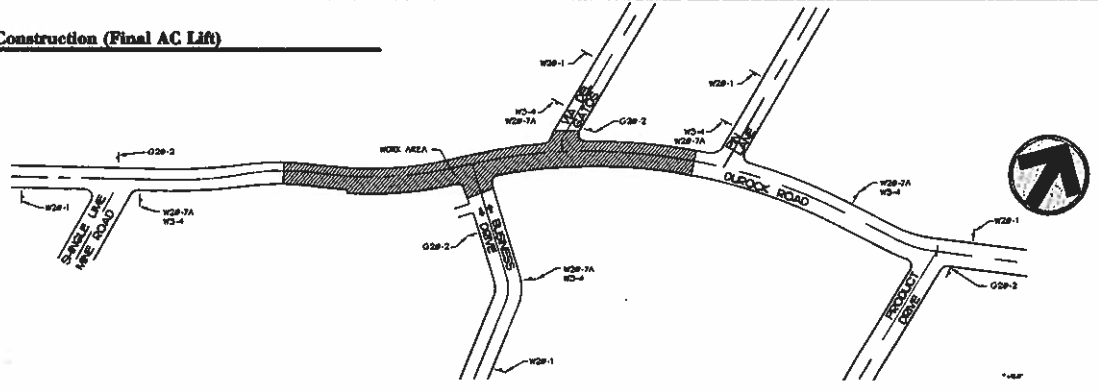
- ↑ TEMPORARY SIGN
- DIRECTION OF TRAVEL
- ▭ INDICATED WORK AREA FOR EACH CONSTRUCTION PHASE

TEMPORARY CONTROL SIGNS TABLE	
MESSAGE	SHOWN
W28-2	END ROAD WORK
W1-3	TURN AND CURVE SIGN
W2-4	PREPARE TO STOP
W28-1	ROAD WORK AHEAD
W28-2	DETOUR
W28-3	ROAD CLOSED AHEAD
W28-7A	FLAGGER
M2-0	DETOUR (BY ARROW)
M2-2A	END DETOUR
M2-0	DETOUR (BY ARROW)
M2-2B	PRELIMINARY END DETOUR (BY ARROW)
M2-2C	PRELIMINARY DETOUR (BY ARROW)
M2-2D	BIKE DETOUR (BY ARROW)
R2-2	NO LEFT TURN
R2-1	DO NOT ENTER
R2-1B	WINDY WAT
S2-2	ONE WAY (WITH ARROW)
R2-2	ROAD CLOSED
R2-4	ROAD CLOSED (LOCAL TRAFFIC ONLY)
R2-1	NO RIGHT TURN

**General Notes**

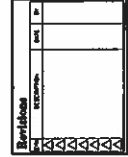
1. UNLESS OTHERWISE SPECIFIED IN THE SPECIAL PROVISIONS, ALL TEMPORARY WARNING SIGNS SHALL HAVE BLACK LETTERS ON ORANGE BACKGROUND.
2. CALIFORNIA CODES ARE DESIGNATED BY (CAL). OTHERWISE, FEDERAL MUTICOR CODES ARE SHOWN.
3. LOCATION OF CONSTRUCTION AREA SIGNS SHOWN ARE APPROXIMATE. EXACT LOCATION WILL BE DETERMINED BY THE ENGINEER.
4. THIS PLAN IS FOR BID PURPOSES ONLY AND IS A GUIDE FOR THE CONTRACTOR. CONTRACTOR SHALL SUBMIT TO THE COUNTY HIS OWN STAGING AND TRAFFIC CONTROL PLAN FOR APPROVAL. SEE SPECIAL PROVISIONS "MAINTAINING TRAFFIC".
5. CONTRACTOR SHALL FOLLOW ALL CALTRANS STD PLAN DETAILS APPLICABLE TO THIS ROADWAY.
6. CONTRACTOR MUST REFER TO CALTRANS SPECIFICATIONS FOR ALL TRAFFIC MAINTENANCE AND CONTROL.

**Stage 3 Construction (Final AC Lift)**



**Stage 3 Construction Notes**

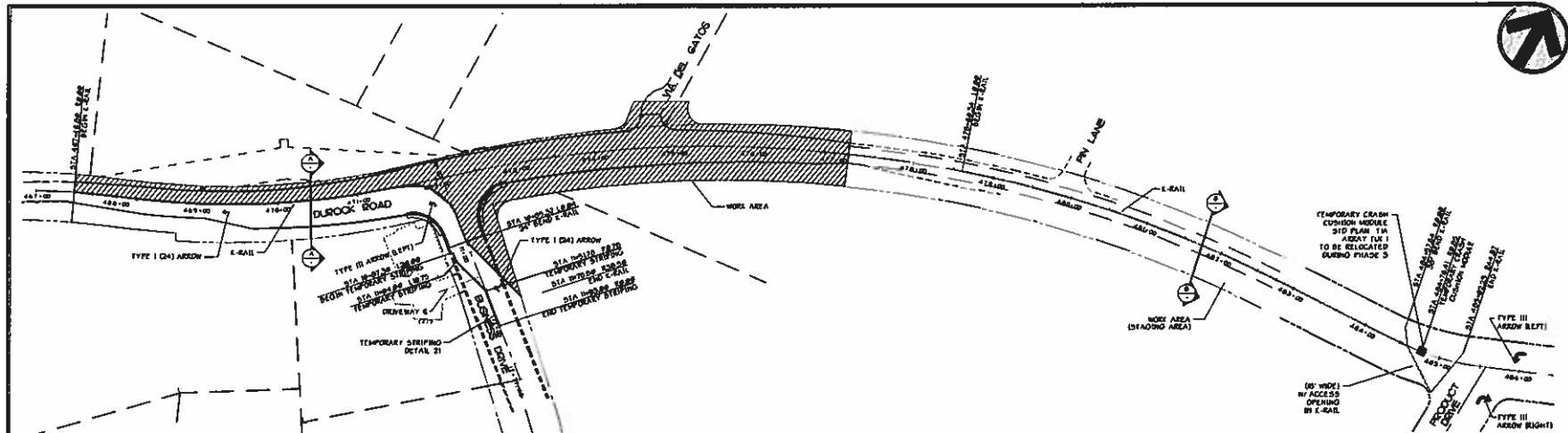
1. INSTALL FINAL LIFT OF AC.
  2. STRIPE FINAL LANES.
  3. ALL WORK SHALL BE PERFORMED DURING THE DAY UNLESS OTHERWISE APPROVED BY THE ENGINEER FOR SAFETY REASONS OR LACK OF CONSTRUCTION AND PER "MAINTAINING TRAFFIC" SECTION OF THE CONTRACT DOCUMENTS.
  4. ALL SIGNS, BARRIERS, AND CHANNELLED DEVICES USED DURING NIGHTTIME SHALL BE EITHER RETRO-REFLECTIVE WITH A SMOOTH, SEALED OUTER SURFACE, OR LUMINESCENT TO SHOW THE SAME SHAPE AND SIMILAR COLOR FOR BOTH DAY AND NIGHT.
  5. THE STAGE 1 OR STAGE 2 DETOUR CONFIGURATION MAY BE USED WITH LANE SHIFTING.
- NOTE: FINAL LIFT AND STRIPING MAY BE DONE AS NIGHT WORK TO LESSEN IMPACT ON TRAFFIC DELAYS. CONTRACTOR TO VERIFY WITH ENGINEER. CALTRANS STD PLAN TTS TRAFFIC CONTROL BY REVERSIBLE CONTROL SHALL APPLY.



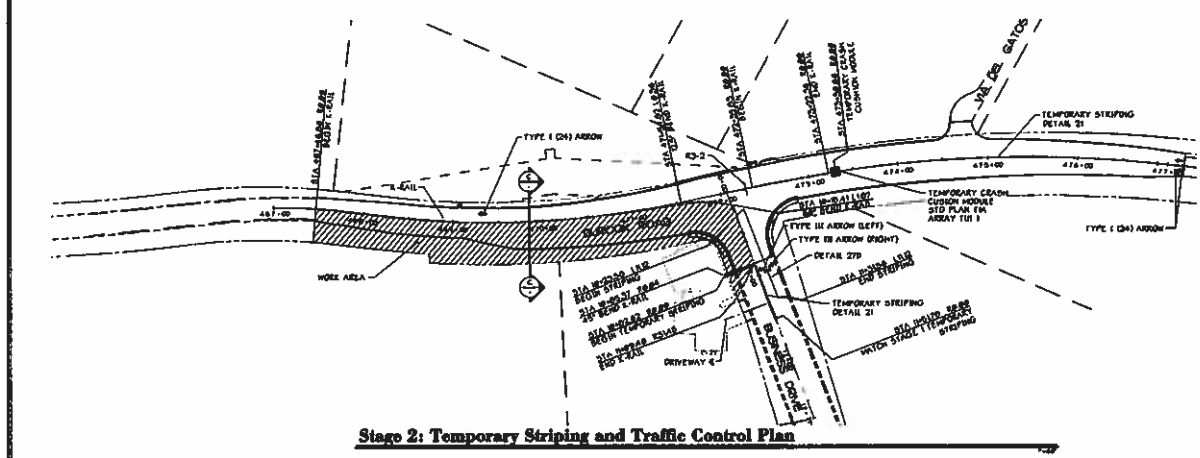
**BURROCK ROAD & BUSINESS DRIVE TRAFFIC SIGNAL & INTERSECTION WIDENING STAGE CONSTRUCTION AND TRAFFIC HANDLING PLAN**

COUNTY OF EL DORADO  
 DEPARTMENT OF TRANSPORTATION  
 Membership Information  
 SUBMITTAL DATE: 05-14-10

**SC-1**  
 14



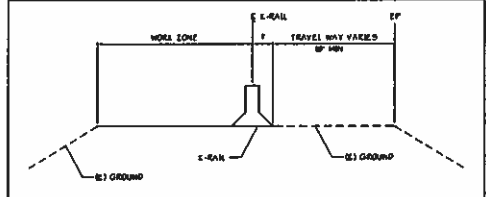
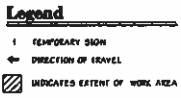
**Stage 1: Temporary Striping and Traffic Control Plan**



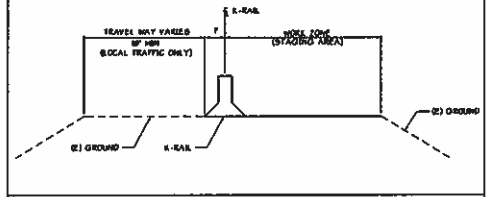
**Stage 2: Temporary Striping and Traffic Control Plan**

**General Notes:**

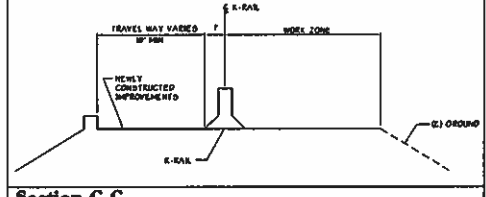
1. UNLESS OTHERWISE SPECIFIED IN THE SPECIAL PROVISIONS, ALL TEMPORARY MARKING SIGNS SHALL HAVE BLACK LEGEND ON ORANGE BACKGROUND.
2. CALIFORNIA CODE ARE DESIGNATED BY (CAL). OTHERWISE, FEDERAL (FHCO) CODES ARE SHOWN.
3. LOCATION OF CONSTRUCTION AREA SIGNS SHOWN ARE APPROXIMATE. EXACT LOCATION WILL BE DETERMINED BY THE ENGINEER.
4. THIS PLAN IS FOR DIP PURPOSES ONLY AND IS A GUIDELINE FOR THE CONTRACTOR. CONTRACTOR SHALL SUBMIT TO THE COUNTY HIS OWN STAGING AND TRAFFIC CONTROL PLAN FOR APPROVAL.
5. CONTRACTOR SHALL FOLLOW ALL CALTRANS 544 PLAN DETAILS APPLICABLE TO THIS ROADWAY.
6. CONTRACTOR MUST REFER TO CALTRANS SPECIFICATIONS FOR ALL TRAFFIC MAINTENANCE AND CONTROL.



**Section A-A**



**Section B-B**



**Section C-C**

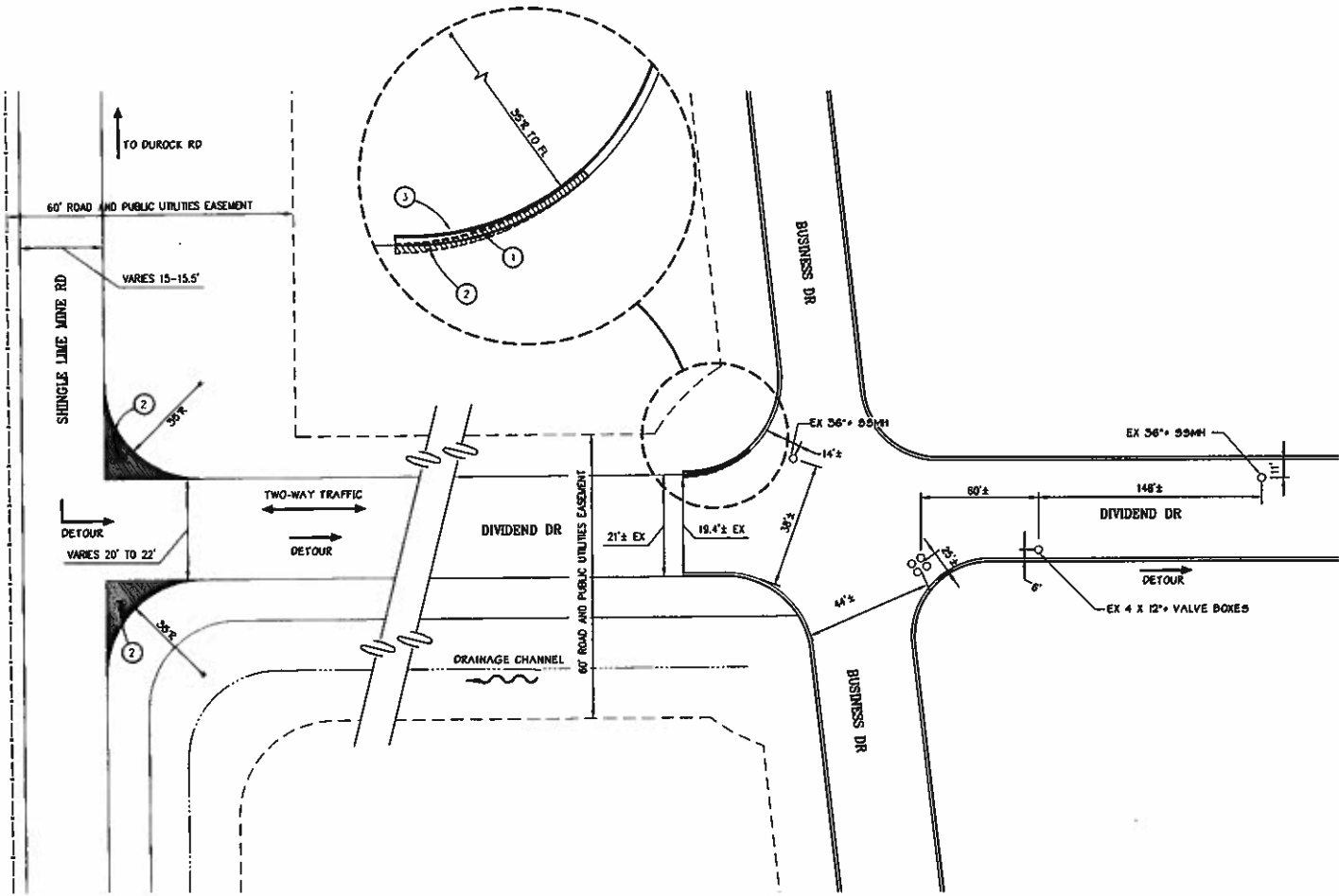


DATE	DESCRIPTION

**BURCK ROAD & BUSINESS DRIVE  
 TRAFFIC SIGNAL & INTERSECTION WIDENING  
 STAGE CONSTRUCTION AND  
 TRAFFIC HANDLING PLAN**

COUNTY OF EL DORADO  
 DEPARTMENT OF  
 TRANSPORTATION  
 Ownership Information:  
 SUBMITTAL DATE: 05-11-10

**SC-2**  
**15**



**Detour - Utility Patch Paving**  
NTS



- CONSTRUCTION NOTES:**
- ① EL DORADO COUNTY MAINTENANCE PERSONNEL TO REMOVE APPROXIMATELY 15' OF EXISTING CURB AND GUTTER, BACK TO THIRD JOINT LINE
  - ② EL DORADO COUNTY MAINTENANCE PERSONNEL TO PLACE NEW ROAD SECTION (MATCHED AREAS)
  - ③ CONTRACTOR TO PLACE APPROX 15 LF OF CURB & GUTTER (TYPE 2) AFTER DETOUR IS NO LONGER NEEDED



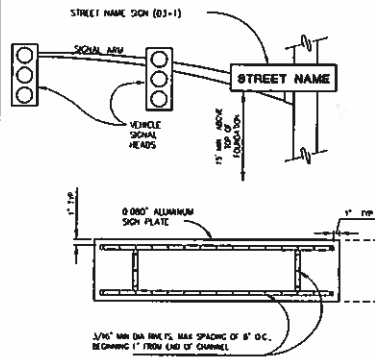
Scale	AS SHOWN
Revision	

**DUROCK ROAD & BUSINESS DRIVE  
TRAFFIC SIGNAL & INTERSECTION WIDENING  
STAGE CONSTRUCTION AND  
TRAFFIC HANDLING PLAN**

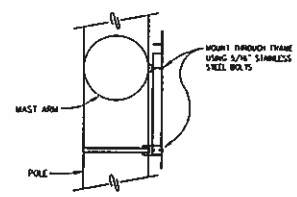
COUNTY OF EL DORADO  
DEPARTMENT OF  
TRANSPORTATION  
Submission Information  
SUBMITTAL DATE: 05-14-10

Project No.	27728
Sheet No.	16
Scale	AS SHOWN
Revision	

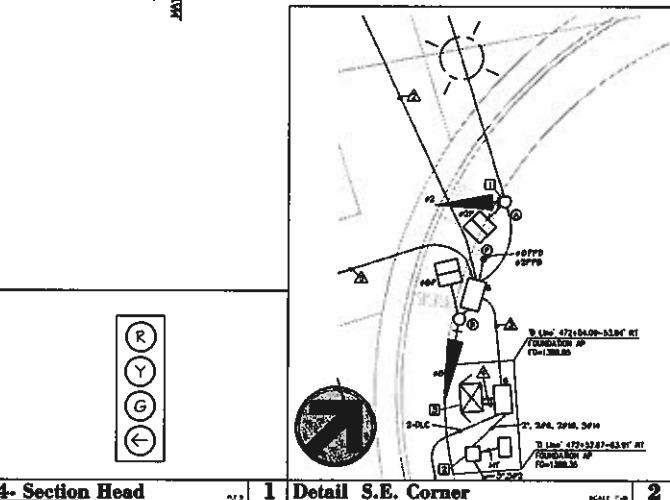
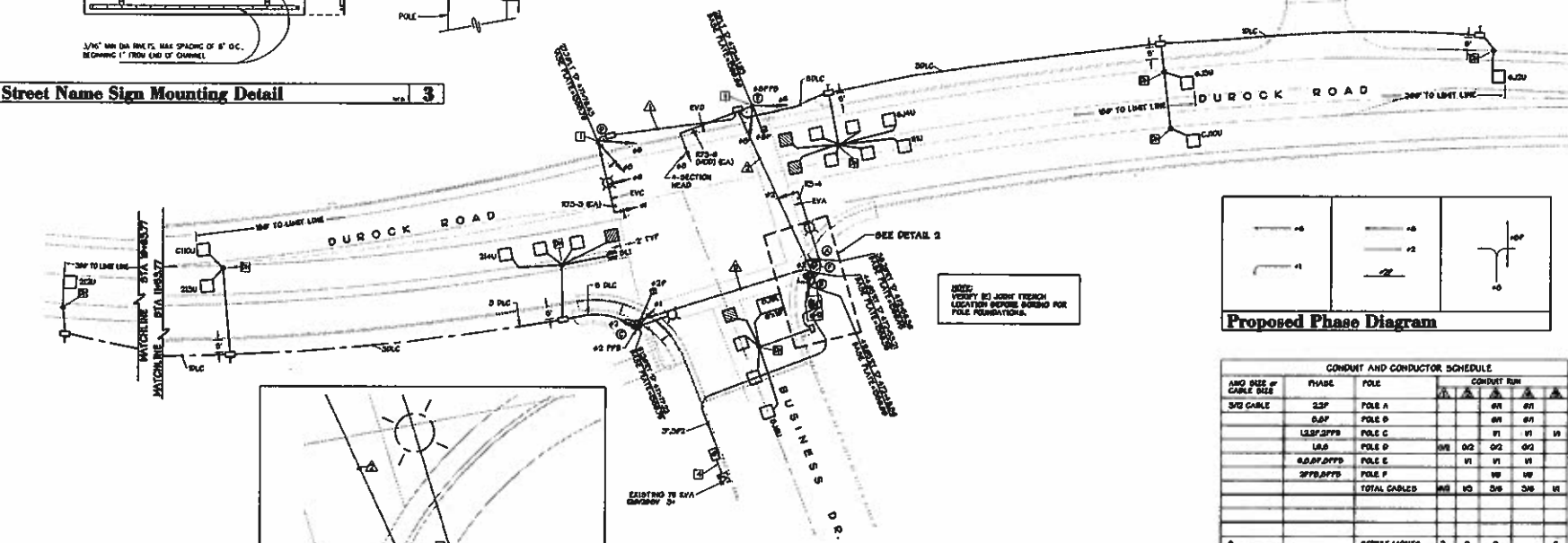




- NOTES:**
1. ALL HANGER COMPONENTS TO BE GALVANNEED (EXCEPT STAINLESS STEEL BANDS)
  2. ATTACH SIGN TO POLE AND SIGNAL BAY ARM VIA SADDLE BRACKETS
  3. SEE EQUIPMENT SCHEDULE FOR MESSAGE
  4. SEE SPECIAL PROVISIONS FOR SIGN SPECIFICATIONS
  5. FRAME MATERIAL: 1 1/2" x 1 1/2" x 3/16" ALUMINUM CHANNEL - ALLOY 6063-T3

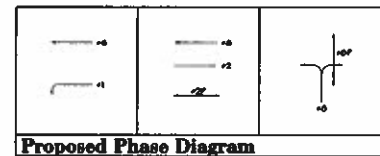


Street Name Sign Mounting Detail 3



**Sheet Notes**

1. INSTALL DS SIGN AS SHOWN ON POLE SCHEDULE, PER DETAIL 3 ON THIS SHEET.
  2. INSTALL COUNTY FURNISHED CONTROLLER CABINET ASSEMBLY WITH MODEL 900 CONTROLLER, FRONT DOOR OF CONTROLLER SHALL FACE WEST.
  3. INSTALL COUNTY FURNISHED TRACO MODEL 27-25 SERVICE EQUIPMENT ENCLOSED WITH BATTERY PACK SYSTEM (BPS) CABINET, DOOR OF ELECTRICAL SERVICE ENCLOSED SHALL FACE WEST AND THE DOOR FOR THE BPS ENCLOSED SHALL FACE EAST. SEE CONTROLLER AND SERVICE PAD DETAIL, SHEET E-2.
  4. POSE TO INSTALL CABLE FROM TRANSFORMER TO P8 FULL BOLL.
- NOTE:**
1. ALL WORK SHALL BE DONE IN ACCORDANCE WITH CALTRANS STANDARD PLANS AND SPECIFICATIONS DATED MAY 2006, AND THE CALIFORNIA MUTCD.



**CONDUIT AND CONDUCTOR SCHEDULE**

AND SIZE OF CABLE SIZE	PHASE	POLE	CONDUIT RUN			
			1	2	3	4
3/4" CABLE	2SP	POLE A			4W	4W
	5AP	POLE B			4W	4W
	1,3,5P,5PP5	POLE C			1W	1W
	1,4,5	POLE D	4W	4W	4W	4W
	4,5,7P,5PP5	POLE E	1W	1W	1W	1W
	3P5,5PP5	POLE F	1W	1W	1W	1W
TOTAL CABLES			4W	4W	2W	2W
STREET LIGHTS			2	2	2	2
CONTROLLER					2	
RLI				1	1	1
#1 DETECTOR			1	1	1	1
#2 DETECTOR			2	2	2	2
#3 DETECTOR			3	3	3	3
COUNT			1	2	2	1
TOTAL OLC = BY			1	7	7	6
TOTAL			8	24	24	9
CONDUIT SIZE			3"	3"	2-3"	2-3"

**POLE AND EQUIPMENT SCHEDULE**

POLE	STANDARD	VEHICLE SIGNAL			PRESENTATION SIGNAL			PPS	NFB LUMINAIRE	NOTES
		TYPE	Qty	MA	#	MARKING	#			
1	10-3-100	3P	2	12	1	12	1	12	SHOW	DS-BUSINESS DR (INSTALL DS-4)
2	10-3-100	5P	2	12	1	12	1	12	SHOW	DS-BUSINESS DR (INSTALL DS-4)
3	10-3-100	5P	2	12	1	12	1	12	SHOW	DS-BUSINESS DR (INSTALL DS-4)
4	10-3-100	5P	2	12	1	12	1	12	SHOW	DS-BUSINESS DR (INSTALL DS-4)
5	10-3-100	5P	2	12	1	12	1	12	SHOW	DS-BUSINESS DR (INSTALL DS-4)
6	10-3-100	5P	2	12	1	12	1	12	SHOW	DS-BUSINESS DR (INSTALL DS-4)
7	10-3-100	5P	2	12	1	12	1	12	SHOW	DS-BUSINESS DR (INSTALL DS-4)
8	10-3-100	5P	2	12	1	12	1	12	SHOW	DS-BUSINESS DR (INSTALL DS-4)
9	10-3-100	5P	2	12	1	12	1	12	SHOW	DS-BUSINESS DR (INSTALL DS-4)
10	10-3-100	5P	2	12	1	12	1	12	SHOW	DS-BUSINESS DR (INSTALL DS-4)
11	10-3-100	5P	2	12	1	12	1	12	SHOW	DS-BUSINESS DR (INSTALL DS-4)
12	10-3-100	5P	2	12	1	12	1	12	SHOW	DS-BUSINESS DR (INSTALL DS-4)
13	10-3-100	5P	2	12	1	12	1	12	SHOW	DS-BUSINESS DR (INSTALL DS-4)
14	10-3-100	5P	2	12	1	12	1	12	SHOW	DS-BUSINESS DR (INSTALL DS-4)
15	10-3-100	5P	2	12	1	12	1	12	SHOW	DS-BUSINESS DR (INSTALL DS-4)
16	10-3-100	5P	2	12	1	12	1	12	SHOW	DS-BUSINESS DR (INSTALL DS-4)
17	10-3-100	5P	2	12	1	12	1	12	SHOW	DS-BUSINESS DR (INSTALL DS-4)
18	10-3-100	5P	2	12	1	12	1	12	SHOW	DS-BUSINESS DR (INSTALL DS-4)
19	10-3-100	5P	2	12	1	12	1	12	SHOW	DS-BUSINESS DR (INSTALL DS-4)
20	10-3-100	5P	2	12	1	12	1	12	SHOW	DS-BUSINESS DR (INSTALL DS-4)
21	10-3-100	5P	2	12	1	12	1	12	SHOW	DS-BUSINESS DR (INSTALL DS-4)
22	10-3-100	5P	2	12	1	12	1	12	SHOW	DS-BUSINESS DR (INSTALL DS-4)
23	10-3-100	5P	2	12	1	12	1	12	SHOW	DS-BUSINESS DR (INSTALL DS-4)
24	10-3-100	5P	2	12	1	12	1	12	SHOW	DS-BUSINESS DR (INSTALL DS-4)
25	10-3-100	5P	2	12	1	12	1	12	SHOW	DS-BUSINESS DR (INSTALL DS-4)
26	10-3-100	5P	2	12	1	12	1	12	SHOW	DS-BUSINESS DR (INSTALL DS-4)
27	10-3-100	5P	2	12	1	12	1	12	SHOW	DS-BUSINESS DR (INSTALL DS-4)
28	10-3-100	5P	2	12	1	12	1	12	SHOW	DS-BUSINESS DR (INSTALL DS-4)
29	10-3-100	5P	2	12	1	12	1	12	SHOW	DS-BUSINESS DR (INSTALL DS-4)
30	10-3-100	5P	2	12	1	12	1	12	SHOW	DS-BUSINESS DR (INSTALL DS-4)
31	10-3-100	5P	2	12	1	12	1	12	SHOW	DS-BUSINESS DR (INSTALL DS-4)
32	10-3-100	5P	2	12	1	12	1	12	SHOW	DS-BUSINESS DR (INSTALL DS-4)
33	10-3-100	5P	2	12	1	12	1	12	SHOW	DS-BUSINESS DR (INSTALL DS-4)
34	10-3-100	5P	2	12	1	12	1	12	SHOW	DS-BUSINESS DR (INSTALL DS-4)
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38	10-3-100	5P	2	12	1	12	1	12	SHOW	DS-BUSINESS DR (INSTALL DS-4)
39	10-3-100	5P	2	12	1	12	1	12	SHOW	DS-BUSINESS DR (INSTALL DS-4)
40	10-3-100	5P	2	12	1	12	1	12	SHOW	DS-BUSINESS DR (INSTALL DS-4)
41	10-3-100	5P	2	12	1	12	1	12	SHOW	DS-BUSINESS DR (INSTALL DS-4)
42	10-3-100	5P	2	12	1	12	1	12	SHOW	DS-BUSINESS DR (INSTALL DS-4)
43	10-3-100	5P	2	12	1	12	1	12	SHOW	DS-BUSINESS DR (INSTALL DS-4)
44	10-3-100	5P	2	12	1	12	1	12	SHOW	DS-BUSINESS DR (INSTALL DS-4)
45	10-3-100	5P	2	12	1	12	1	12	SHOW	DS-BUSINESS DR (INSTALL DS-4)
46	10-3-100	5P	2	12	1	12	1	12	SHOW	DS-BUSINESS DR (INSTALL DS-4)
47	10-3-100	5P	2	12	1	12	1	12	SHOW	DS-BUSINESS DR (INSTALL DS-4)
48	10-3-100	5P	2	12	1	12	1	12	SHOW	DS-BUSINESS DR (INSTALL DS-4)
49	10-3-100	5P	2	12	1	12	1	12	SHOW	DS-BUSINESS DR (INSTALL DS-4)
50	10-3-100	5P	2	12	1	12	1	12	SHOW	DS-BUSINESS DR (INSTALL DS-4)

12 = ALL 12" LED SIGNAL SECTIONS, AA = ALL ARROW LED SIGNAL SECTIONS, EVA, EVC = BUS EMERGENCY VEHICLE PRECEDENCE SIGNAL, QA = 4 SECTION HEAD (SEE DETAIL 1 THIS SHEET)

3 CONDUCTOR CABLE TO PFB, 2 CONDUCTOR TO TRAFFIC SIGNAL

**NOTE:** THIS SHEET ACCURATE FOR ELECTRICAL WORK ONLY.



DATE	
BY	
CHECKED	
APPROVED	

**DUROCK ROAD & BUSINESS DRIVE TRAFFIC SIGNAL & INTERSECTION WIDENING TRAFFIC SIGNAL AND LIGHTING PLAN**

COUNTY OF EL DORADO  
DEPARTMENT OF TRANSPORTATION  
UNIVERSITY INFORMATION  
SUBMITTAL DATE: 05-14-10



**EL DORADO COUNTY  
SIGNAL SPECIAL PROVISIONS**

ALL SIGNAL INSTALLATIONS SHALL CONFORM TO ALL CURRENT STATE OF CALIFORNIA STANDARD SPECIFICATIONS WITH THE EXCEPTION OF THE BELOW ITEMIZED EL DORADO COUNTY SPECIAL PROVISIONS:

**GENERAL PROVISIONS**

1. USE OF PROGRAMMED VISIBILITY SIGNAL HEADS SHOULD BE MINIMIZED. FOR LEFT TURN LANES, RED, YELLOW AND GREEN ARROWS SHOULD BE USED.
2. THE RED, YELLOW AND GREEN INDICATORS FOR ALL SIGNAL HEADS SHALL, WITH THE EXCEPTION OF THE PROGRAMMED VISIBILITY HEADS, COMPLY WITH THE CALIFORNIA TYPE I LED SPECIFICATION AND, TO EVERY EXTENT POSSIBLE, EXHIBIT THE APPEARANCE OF AN INCANDESCENT FIXTURE (i.e. through Diffused or Colored).
3. ALL PROGRAMMED VISIBILITY HEADS SHALL USE CALIFORNIA APPROVED LED MODULES FOR ILLUMINATION.
4. ALL SIGNAL HEADS SHALL BE "C".
5. ALL SIGNALS SHALL BE DESIGNED WITH "NEAR RIGHT" INDICATORS FOR ALL THROUGH PHASES.
6. ALL SIGNAL HEADS SHALL BE FINISHED WITH "TUNNEL" TYPE VISORS.
7. ALL SIGNAL HEADS, BACKING PLATES AND VISORS SHALL BE PAINTED ALUMINUM.
8. PEDESTRIAN HEADS SHALL BE LED DUAL HANDWAY TYPE ONLY.
9. ALL PEDESTRIAN HEADS LOCATED WITHIN SCHOOL ZONES SHALL BE COURTDOWN TYPE LED HEADS WITH FULL HANDWAY DISPLAY.
10. PEDESTRIAN HEADS IN AREAS OF HIGH PEDESTRIAN USE, AS DETERMINED BY THE ENGINEER, SHALL BE COURTDOWN TYPE LED HEADS WITH FULL HANDWAY DISPLAY.
11. ALL PED PUSH BUTTONS SHALL BE ADA COMPLIANT AND FULLY UNIDENTIFIED REGARDLESS OF DESIGN.
12. WHENEVER POSSIBLE MULTI-CONDUCTOR SIGNAL CABLE SHOULD BE USED RATHER THAN INDIVIDUAL WIRES.
13. TYPE II LOOP CABLE SHALL BE USED FOR ALL LOOP DETECTORS.
14. TYPE B LEAD-IN CABLE (LINC) SHALL BE USED FOR LOOP LEAD IN WIRE.
15. DETECTOR HANDHOLES SHALL BE REINFORCED CONCRETE WITH CAST IRON FRAME AND COVER. THE COVER SHALL BE SECURED BY TWO (2) 3/8" IN STAINLESS STEEL SCREWS.
16. ALL DETECTOR HANDHOLES COVERS SHALL BE SET TO GRADE OR RAISED TO GRADE FOLLOWING FINAL PAVING.
17. ALL WIRE HOLDERS FOR LUMINAIRES SHALL BE LOCATED INSIDE POLE HAND HOLE.
18. LOOPS FOR THE COLLECTION OF VEHICLE COUNT DATA SHALL BE PROVIDED AS REQUESTED BY COUNTY.
19. ALL STREET NAME SIGNS SHALL BE "HIGH INTENSITY".
20. ALL STREET NAME SIGNS SHALL BE MOUNTED ACROSS POLE AND MUST BEAD NOT HUNG FROM MAST ARM.

**EMERGENCY VEHICLE PREEMPTION**

21. EMERGENCY VEHICLE PREEMPTION SYSTEM MUST BE LR CAPABLE.
22. FOR MAINTENANCE PURPOSES AND TO CONFORM WITH CURRENTLY INSTALLED COUNTY EQUIPMENT, ALL EMERGENCY VEHICLE PREEMPTION EQUIPMENT SHALL BE OPTICAL.

**SIGNAL CONTROL CABINET**

23. CABINET SHALL BE EQUIPPED WITH A FLUORESCENT LIGHT WHICH COMES ON AUTOMATICALLY WHEN EITHER DOOR IS OPENED.
24. ALL 3/32 CABINETS SHALL BE FINISHED WITH A DOORWAY DRAWER.

**DELIVERY INFORMATION**

25. CONTRACTOR SHALL NOTIFY EL DORADO COUNTY WHEN THEY WILL NEED THE COUNTY PURCHASED SIGNAL EQUIPMENT A MINIMUM OF ONE (1) WEEK PRIOR TO PICKUP. CONTRACTOR SHALL ARRANGE PICKUP WITH THE EL DORADO COUNTY INSPECTOR RESPONSIBLE FOR THE PROJECT. CONTRACTOR SHALL PICKUP THE COUNTY PURCHASED EQUIPMENT AT 3641 WASHINGTON ROAD, PLACENTIA, CALIFORNIA, AND TRANSPORT TO THE PROJECT SITE.

**COMBINATION ELECTRICAL SERVICE CABINET/BATTERY BACKUP SYSTEM**

26. THE ELECTRICAL SERVICE CABINET SHALL CONSIST OF A TESCO 27-22 COMBINED TO EL DORADO COUNTY SPECIFICATIONS.
27. BPS SHALL BE CAPABLE OF OPERATING A MAX LED EQUIPPED TYPICAL FULL BRIGHT PHASE INTERSECTION FOR 10 TO 125+ MIN MAXIMUM HOURS OF FULL RUN TIME OPERATION PLUS FOUR (4) HOURS OF ALL RED FLASH.
28. A PHOTOELECTRIC CELL SHALL BE LOCATED WITHIN THE SERVICE CABINET.

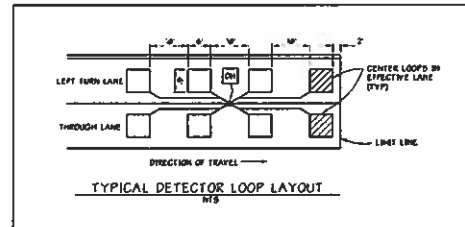
**NEW TRAFFIC TURN-ON PROCEDURES**

NOTE: SOME OF THE FOLLOWING PROCEDURES MAY BE PERFORMED PRIOR TO THE FINAL TURN-ON AS LONG AS ALL TESTS ARE COMPLETED AND/OR ACCEPTED BY THE RESPONSIBLE EL DORADO COUNTY INSPECTOR. ALL TESTING TO THE RESPONSIBILITY OF THE APPLICABLE CONTRACTOR. PLEASE BE ADVISED THAT ANY CHANGES TO OR MODIFICATION OF THIS TURN-ON PROCEDURE MUST BE APPROVED BY THE ENGINEER IN RESPONSIBLE CHARGE.

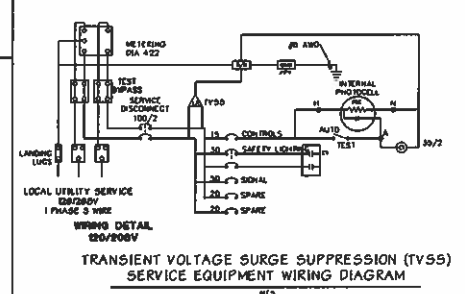
1. (UNLESS ALL SIGNAL LIGHTING (LEADS), RESPONSIBILITY OF ELECTRICAL CONTRACTOR, INSPECTOR MAY REQUEST TO BE PRESENT AT HIS DISCRETION.)
  - A. REMOVE ALL LOOP DETECTOR MODEL 27-22 AND THE PHOTOELECTRIC CELL. THIS MAY BE DONE TO ASSURE THEIR PROTECTION AND TO PREVENT FEEDBACK THROUGH THE SWITCH CAUSING A POSSIBLE MISLEADING INDICATION AT THE SIGNALS. THE CONTROLLER UNIT SHOULD BE "OFF" DURING THIS TEST PROCEDURE.
  - B. CHECK EACH INDIVIDUAL SIGNAL FIELD CIRCUIT BY APPLYING 240 VOLTS AC TO THE FIELD TERMINAL OF EACH INDICATOR. THIS PROCEDURE IS OFTEN CALLED "FLASHING" THE SIGNAL HEADS.
  - C. DURING "FLASHING" PROCEDURE, VERIFY THAT ALL INDICATORS THAT SHOULD BE "OFF" FLASH "OFF" THIS VERIFICATION MAY BE ACCOMPLISHED THROUGH THE USE OF SMALL HOLES CUT IN THE SIGNAL FACE COVERS. SIGNALS MUST BE COVERED DURING THIS OPERATION UNLESS THE CONTRACTOR PROVIDES MANUAL TRAFFIC CONTROL (PUSHING) AND THAT CONTROL HAS BEEN APPROVED BY THE INSPECTOR.
2. CHECK LUMINAIRE (EFFECT LIGHTING) RESPONSIBILITY OF ELECTRICAL CONTRACTOR, INSPECTOR MAY REQUEST TO BE PRESENT AT HIS DISCRETION.)
  - A. CHECK POWER FEEDBACK TO ASSURE THAT SWITCH FOR LUMINAIRE IS SET TO "AUTO".
  - B. COVER THE PHOTO ELECTRIC CELL AND VERIFY THAT ALL LUMINAIRES COME ON. THIS TEST WILL TAKE A FEW MINUTES.
  - C. REMOVE COVER FROM PHOTO ELECTRIC CELL VERIFYING THAT LUMINAIRES DO NOT.
  - D. SET SWITCH IN POWER FEEDBACK TO THE "TEST" POSITION AND VERIFY THAT ALL LUMINAIRE COME ON. THIS TEST WILL TAKE A FEW MINUTES.
  - E. SET SWITCH BACK TO "AUTO". SIGNALS CAN NOT BE TURNED ON UNLESS ALL LUMINAIRE ARE FUNCTIONING PROPERLY.
3. WHEN ALL TESTS ARE COMPLETE, SET SWITCH TO "TEST" THIS CONDITION SHOULD REMAIN FOR AT LEAST 10 MINUTES TO ALLOW "BURN IN" OF LUMINAIRE. THIS PERIOD MAY OCCUR AFTER THE SIGNALS HAVE BEEN TURNED ON.
4. WHEN ALL DETECTOR CIRCUITS, ALTHOUGH THESE TESTS ARE THE RESPONSIBILITY OF THE ELECTRICAL CONTRACTOR, HAVE BEEN TESTED AND WITH THE PARTICIPATION OF THE EL DORADO COUNTY INSPECTOR AND APPROPRIATE COORDINATION SHOULD BE ARRANGED.
  - A. ALL DETECTOR LOOPS AND TO BE TESTED FOR CONTINUITY AND RESISTANCE TO GROUND. RESISTANCE TO GROUND TEST RESULTS SHALL BE COVERED BY THE COUNTY INSPECTOR. AT HIS DISCRETION, SIGNALS MAY BE PRESENT DURING THESE TESTS THE SUBJECT MATTER.
  - B. THE FUNCTIONALITY OF ALL VEHICLE DETECTION SHALL BE DEMONSTRATED BY USE OF A CONTROLLER PROVIDED TEST VEHICLE SHALL BE COVERED BY THE COUNTY INSPECTOR.
  - C. THE CONTRACTOR SHALL DEMONSTRATE THE FUNCTIONALITY OF THE PED PUSH BUTTON CIRCUIT BY ACTIVATING THE PED PUSH BUTTONS WHILE CABINET INDICATORS ARE OPERATED AS OBSERVED BY THE COUNTY INSPECTOR.

**FINAL TURN-ON PROCEDURES**

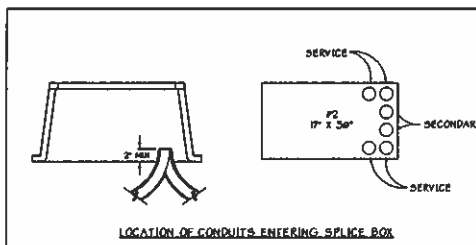
5. FINAL TURN-ON PROCEDURE, RESPONSIBILITY OF THE SIGNAL MAINTENANCE CONTRACTOR (EXCEPT AS NOTED), THE SIGNALS CAN NOT BE TURNED ON UNLESS ALL SIGNS AND MARKINGS ARE IN PLACE. FINAL SIGNAL TURN-ON SHALL NOT OCCUR DURING RAINY OR WINDY WEATHER, AND SHALL NOT OCCUR ON MONDAY, FRIDAY OR WITHIN THREE (3) DAYS PRIOR TO ANY HOLIDAY, UNLESS OTHERWISE SPECIFICALLY APPROVED BY THE EL DORADO COUNTY ENGINEER IN RESPONSIBLE CHARGE.
  - A. REMOVE THE CONTROL MONITOR AND VERIFY THAT IT HAS BEEN TESTED AND THAT THE CORRECT AND PROPERLY CONFIGURED BOARD IS INSTALLED. THIS IS ACCOMPLISHED BY PULLING THE ACCOMPANYING WEAR TEST "PULLOUT STRIP" AND VERIFYING THAT THE PROGRAM BOARD IS PROPERLY CONFIGURED FOR THE INDICATED INTERSECTION. THE TEST STRIP SHOULD BE SIGNED OR INITIALED BY THE RESPONSIBLE TECHNICIAN. THE INTERSECTION CAN NOT BE TURNED ON WITHOUT THE PRESENCE OF AN "M-100" TEST STRIP.
  - B. CHECK TO VERIFY THAT THE TUNING PLAN PROVIDED BY THE SIGNAL OPERATIONS ENGINEER HAS BEEN PROPERLY ENTERED INTO THE CONTROLLER.
  - C. REMOVE COVERS FROM SIGNAL HEADS, RESPONSIBILITY OF ELECTRICAL CONTRACTOR.
  - D. PLACE SIGNAL INTO FLASHING OPERATION.
  - E. REMOVE ALL COVERS FROM SIGNALS. ALSO REMOVE ANY INTERM SIGNALS OR SAFETY MEASURES THAT MAY HAVE BEEN PUT IN PLACE. (THIS IS THE RESPONSIBILITY OF THE PRIME CONTRACTOR.)
  - F. REMOVE ALL EXISTING STOP SIGNS. (THIS IS THE RESPONSIBILITY OF THE PRIME CONTRACTOR.)
  - G. PLACE SIGNALS INTO AUTOMATIC OPERATION.
  - H. REMOVE MANUAL TRAFFIC CONTROL.
  - I. OBSERVE OPERATIONS AND MAKE ANY ADJUSTMENTS TO OPERATIONS THAT ARE IDENTIFIED AS NECESSARY.



**TYPICAL DETECTOR LOOP LAYOUT**

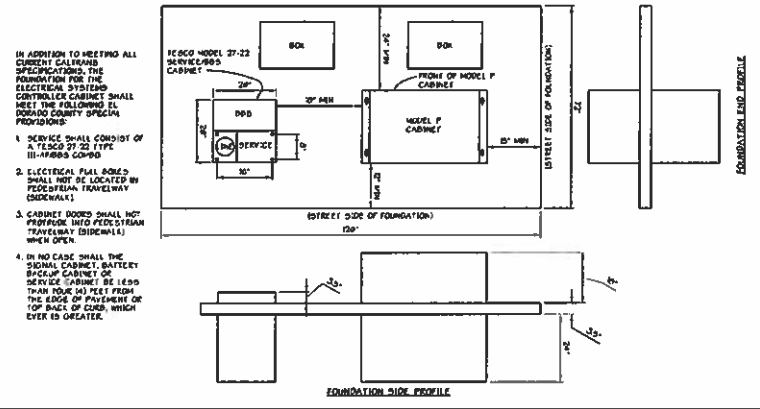


**TRANSIENT VOLTAGE SURGE SUPPRESSION (TVSS) SERVICE EQUIPMENT WIRING DIAGRAM**



**PG&E PULL BOX @ SERVICE POINT**

**TVSS DIAGRAM**



**CONTROLLER AND SERVICE PAD DETAIL**



DATE	
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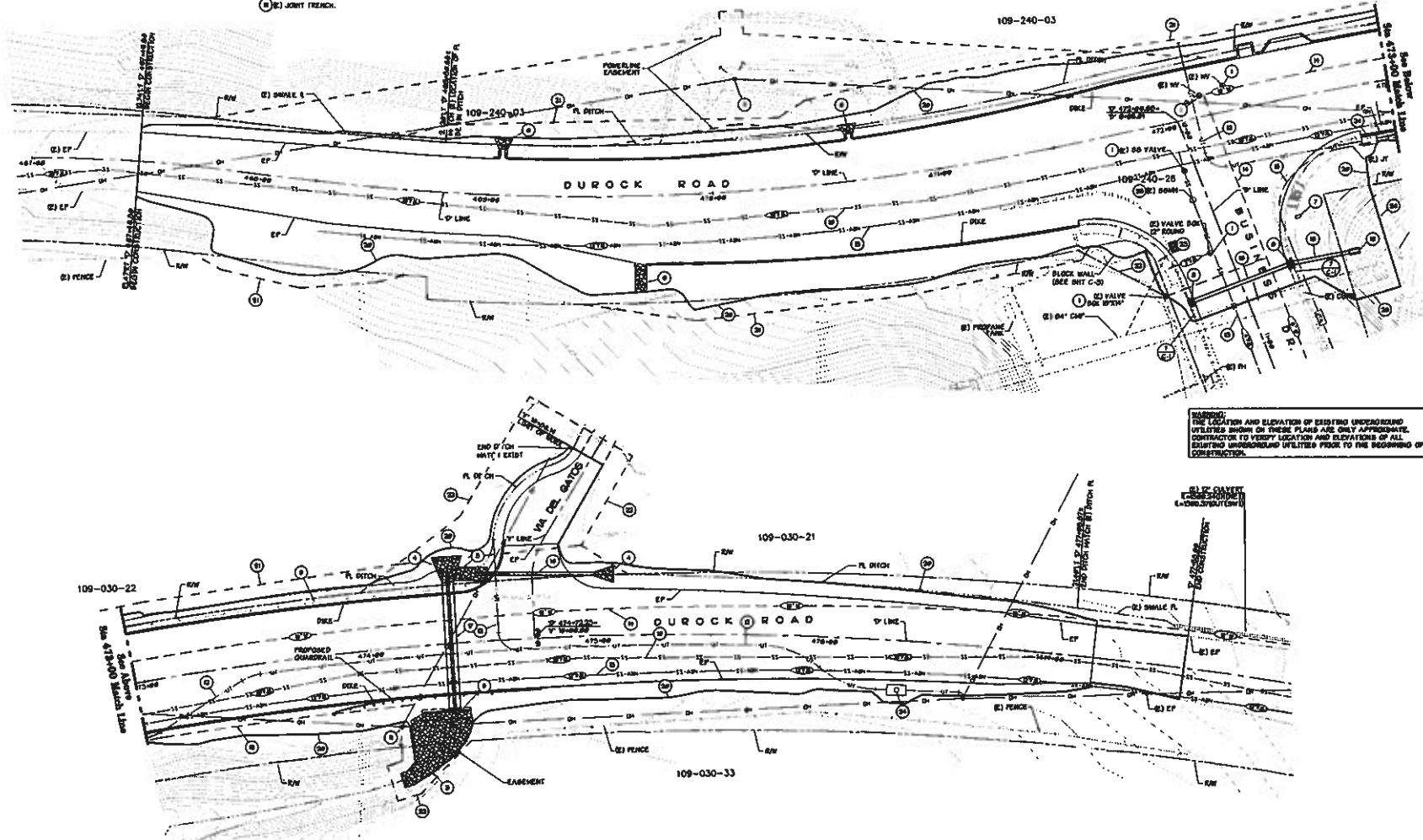
**BURCK ROAD & BUSINESS DRIVE  
TRAFFIC SIGNAL & INTERSECTION WIDENING  
TRAFFIC SIGNAL, LIGHTING  
NOTES AND DETAILS**

COUNTY OF EL DORADO  
DEPARTMENT OF  
TRANSPORTATION  
 SUBMITTAL DATE: 05-14-10



**Construction Notes**

- |   |   |  |   |
|---|---|--|---|
| <ul style="list-style-type: none"> <li>1) ADJUST EXISTING VALVE BOX AND COVER TO GRADE.</li> <li>2) NOT USED.</li> <li>3) PLACE CONCRETE ROCK OUTFALL PROTECTION, SEE SHEET D-1.</li> <li>4) PLACE CONCRETE ROCK INLET PROTECTION, SEE SHEET D-1.</li> <li>5) CONSTRUCT HEADWALL, PER DETAIL.</li> <li>6) CONSTRUCT ROCK-LINED DITCH, PER DETAIL.</li> <li>7) (E) BY TO REMAIN, RAISE TO FINISHED GRADE.</li> </ul> | <ul style="list-style-type: none"> <li>8) PLACE CALTRANS TYPE 00 DRAIN INLET PER DETAIL, SEE SHEET D-1.</li> <li>9) (E) FENCE TO BE REMOVED.</li> <li>10) (E) 2" CP FORCE MAIN, VERIFY LOCATION IN FIELD PRIOR TO CONSTRUCTION.</li> <li>11) POLE POWER POLE.</li> <li>12) (E) AT&amp;T CONDUITS.</li> <li>13) (E) ABANDONED 12" FORCE MAIN.</li> <li>14) (E) WATER MIE VERIFY.</li> <li>15) (E) JOINT TRENCH.</li> </ul> | <ul style="list-style-type: none"> <li>16) 24" RCP PER SHEET D-1.</li> <li>17) 30" RCP PER SHEET D-1.</li> <li>18) 36" RCP PER SHEET D-1.</li> <li>19) CONCRETE COLLAR PER SHEET D-1.</li> <li>20) LIMIT OF DISTURBANCE.</li> <li>21) SLOPE EASEMENT.</li> </ul> | <ul style="list-style-type: none"> <li>22) TEMPORARY CONSTRUCTION EASEMENT.</li> <li>23) INLET TO BE REMOVED.</li> <li>24) AT&amp;T SERVICE POLE TO BE RAISED TO GRADE BY AT&amp;T.</li> <li>25) ADJUST BENCH MARKS TO GRADE.</li> <li>26) MANHOLE EASEMENT.</li> </ul> |
|---|---|--|---|



**WARNING:**  
 THE LOCATION AND ELEVATION OF EXISTING UNDERGROUND UTILITIES SHOWN ON THESE PLANS ARE ONLY APPROXIMATE. CONTRACTOR TO VERIFY LOCATION AND ELEVATIONS OF ALL EXISTING UNDERGROUND UTILITIES PRIOR TO THE BEGINNING OF CONSTRUCTION.

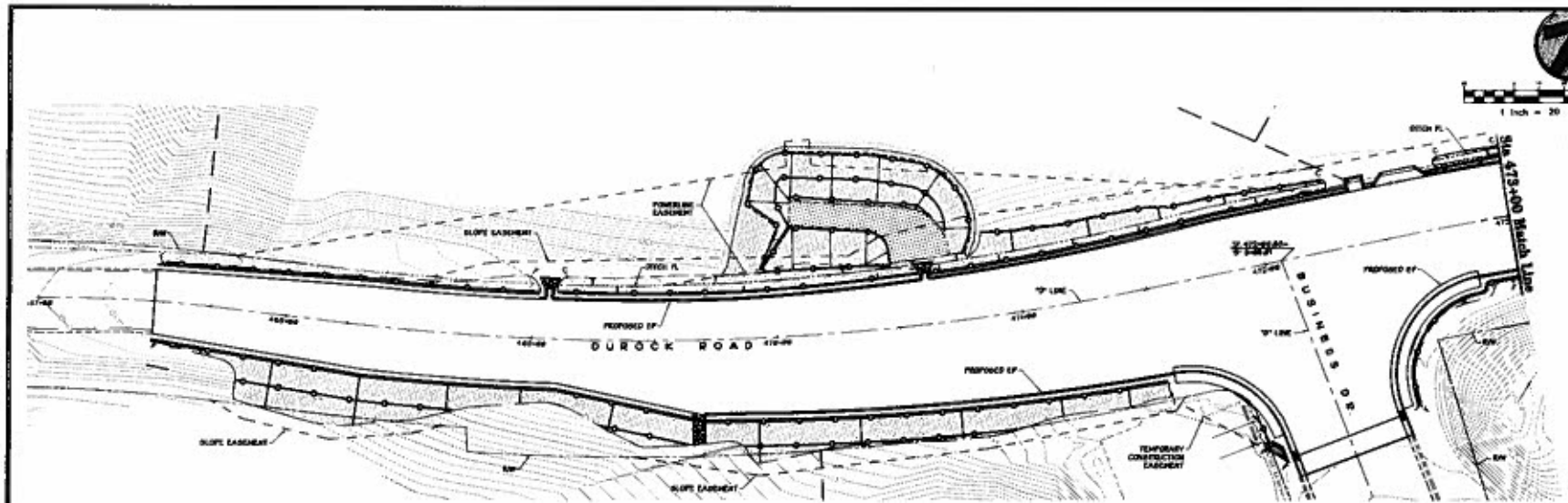





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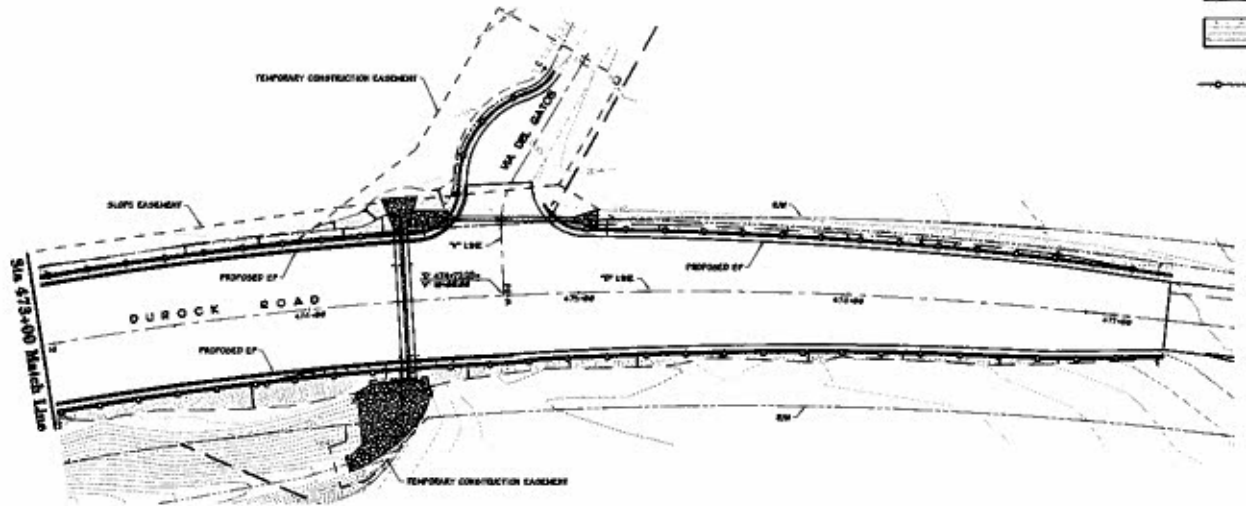
**DUROCK ROAD & BUSINESS DRIVE  
 TRAFFIC SIGNAL & INTERSECTION WIDENING  
 DUROCK ROAD STA 467+00 TO  
 STA 473+00 UTILITY PLAN**

COUNTY OF EL DORADO  
 DEPARTMENT OF  
 TRANSPORTATION  
 Ownership Information  
 SUBMITTAL DATE: 05-14-10





- Legend**
-  - SEED & STRAW ONLY
  -  - SEED & STRAW INSTALLED PER SPECIAL PROVISIONS AND FURF REINFORCEMENT MAT INSTALLED PER MANUFACTURER'S INSTRUCTIONS
  -  - FIBER SOIL (UP SPACING BETWEEN ROWS WHERE APPLICABLE)




**BURROCK ROAD & BUSINESS DRIVE  
 TRAFFIC SIGNAL & INTERSECTION WIDENING  
 PERMANENT  
 EROSION CONTROL PLAN**

COUNTY OF EL DORADO  
 DEPARTMENT OF  
 TRANSPORTATION  
 (Seal of the County of El Dorado)  
 SUBMITTAL DATE: 05-14-10

