

As Constructed

Oversight / NHS

FHWA REGION VIII OVERSIGHT?  R-1  ND  YES

NATIONAL HIGHWAY SYSTEM?  ND  YES



# DEPARTMENT OF TRANSPORTATION

## STATE OF COLORADO

### HIGHWAY CONSTRUCTION BID PLANS OF PROPOSED EDWARDS INTERCHANGE UPGRADE

#### EAGLE COUNTY

#### INTERSTATE 70 FEDERAL AID PROJECT NO. ES3 0702-297 CONSTRUCTION PROJECT CODE NO. 17303

THIS PROJECT IS LOCATED ON INTERSTATE 70G SPUR ROAD AND EAGLE COUNTY ROADS: BEARD CREEK ROAD AND BERRY CREEK ROAD. IT BEGINS AT MILE POST 0.00 AND CONTINUES SOUTH TO MILE POST 0.170 ON 70G SPUR ROAD AND INCLUDES THE REALIGNMENTS OF BERRY CREEK ROAD AND BEARD CREEK ROAD. THE WORK INCLUDES FOUR NEW ROUNDABOUTS, CONCRETE PAVEMENT, HMA PAVEMENT, RETAINING WALLS, EMBANKMENT, GUARDRAIL, CULVERT AND TRAFFIC CONTROL MANAGEMENT.

T4S  
T5S



PROJECT LOCATION MAP

NOT TO SCALE



#### VOLUME 1

SHEET NO.	SUBSET
1	T-01
2	SP-01
3-4	GN-01- GN-02
5-11	SAQ-01 - SAQ-07
12-14	PT-01 - PT-03
15	SU-01
16-20	EG-01 - EG-05
21-42	TY-01 - TY-22
43-49	GE-01 - GE-07
50	TCD-1
51-61	PH-01 - PH-11
62-63	TR-01 - TR-02
64-68	R-01 - R-05
69-80	UT-01 - UT-12
81-105	W-01 - W-25
106-108	DT-01 - DT-03
109	DM-01
110-121	DR-01 - DR-12
122-130	DP-01 - DP-09
131-138	DD-01 - DD-08
139-141	C-01 - C-03
142-145	CT-01 - CT-04
146	CG-01
147-148	CK-01 - CK-02
149	CP-01
150-157	CD-01 - CD-08
158-161	SW-01 - SW-04
162-173	EC-01 - EC-12
174-176	WM-01 - WM-03
177-188	PL-01 - PL-12
189-211	PR-01 - PR-23
212	DT-01
213-227	RL-01 - RL-15
228	PV-01
229-236	CJ-01 - CJ-08
237-240	TS-01 - TS-04
241	TP-01
242-247	SS-01 - SS-06
248-268	SD-01 - SD-21
269	DE-01
270-287	LT-01 - LT-18
288-292	IR-01 - IR-05
293-384	CS-01 - CS-92

Related Projects:  
P. E. UNDER PROJECT:  
Project Number:  
Project Code:

R.D.W. Projects:  
R.D.W. Project Description:

#### TABULATION OF LENGTH & DESIGN DATA

STATION	FEET	
	ROADWAY	MAJOR STR.
EDWARDS ACCESS RD. STA. 1+40.00 TO STA. 16+93.41	1,553.41	
NORTHSTAR CENTER ACCESS STA. 101+07.00 TO STA. 102+51.39	144.39	
MILLER RANCH RD STA. 200+00.00 TO STA. 202+53.43	253.44	
EB OFF RAMP STA. 300+33.00 TO STA. 304+16.73	383.73	
EB DN RAMP STA. 399+50.00 TO STA. 404+04.00	454.00	
WB DN RAMP STA. 500+50.00 TO STA. 506+92.80	642.80	
WB OFF RAMP STA. 599+50.00 TO STA. 608+00.00	850.00	
BEARD CREEK RD/BERRY CREEK RD STA. 708+43.25 TO STA. 716+76.59	833.34	
<b>TOTAL</b>	<b>5,115.11</b>	
<b>SUMMARY OF PROJECT LENGTH</b>		
	FEET	MILES
ROADWAY (NET LENGTH)	5,115.11	0.97
PROJECT GROSS LENGTH	5,115.11	0.97
<b>DESIGN DATA</b>		
	EDWARDS ACCESS RD	
MAXIMUM RADIUS OF CURVE	420 ft	
MAXIMUM GRADE	8%	
MINIMUM S.S.D. HORIZONTAL	250	
MINIMUM S.S.D. VERTICAL	250	
MAXIMUM DESIGN SPEED	35 MPH	
2008 DESIGN TRAFFIC	ADT = 17,250	
2030 DESIGN TRAFFIC	ADT = 31,200	
DHV TRUCKS %	2.8%	
CLEAR ZONE DISTANCE (TANGENT)	12 ft	
CONSTRUCTION CLEAR ZONE (MIN 18')	2 ft	

FOR INFORMATION ONLY

**FINAL 11-05-09**



Print Date: 11/5/2009	<table border="1"> <thead> <tr> <th colspan="3">Sheet Revisions</th> </tr> <tr> <th>Date:</th> <th>Comments</th> <th>Init.</th> </tr> </thead> <tbody> <tr> <td>01/08/10</td> <td>REVISED INDEX &amp; FHWA OVERSIGHT STATUS</td> <td>JMK</td> </tr> </tbody> </table>	Sheet Revisions			Date:	Comments	Init.	01/08/10	REVISED INDEX & FHWA OVERSIGHT STATUS	JMK	Colorado Department of Transportation	As Constructed	Contract Information	Project No./Code
Sheet Revisions														
Date:		Comments	Init.											
01/08/10	REVISED INDEX & FHWA OVERSIGHT STATUS	JMK												
Drawing File Name: 061931TITLE.dgn		714 Grand Avenue Eagle, CO 81631 Phone: 970-328-6385 FAX: 970-328-2368	No Revisions:	Contractor: American Civil Const	ES3 0702-297									
Unit Information		Region 3	Revised: 6-6-2011	Resident Engineer: Martha Miller	17303									
			Void:	Project Engineer: Craig G. Lazier	Sheet Number 1									
				PROJECT STARTED: 3/15/10 ACCEPTED: 6/16/11										
				Comments:										

PLAN NUMBER	NEW OR REVISED	M STANDARD TITLE	PAGE NUMBER	PLAN NUMBER	NEW OR REVISED	M STANDARD TITLE	PAGE NUMBER	PLAN NUMBER	NEW OR REVISED	S STANDARD TITLE	PAGE NUMBER
<input checked="" type="checkbox"/> M-100-1	<input type="checkbox"/>	STANDARD SYMBOLS (3 SHEETS)	1-3	<input checked="" type="checkbox"/> M-607-1	<input type="checkbox"/>	WIRE FENCES AND GATES (3 SHEETS)	84-86	<input checked="" type="checkbox"/> S-612-1	<input type="checkbox"/>	DELINEATOR INSTALLATIONS (5 SHEETS)	131-135
<input checked="" type="checkbox"/> M-203-1	<input type="checkbox"/>	APPROACH ROADS	4	<input type="checkbox"/> M-607-2	<input type="checkbox"/>	CHAIN LINK FENCE (3 SHEETS)	87-89	<input checked="" type="checkbox"/> S-614-1	<input type="checkbox"/>	GROUND SIGN PLACEMENT (2 SHEETS)	136-137
<input checked="" type="checkbox"/> M-203-2	<input type="checkbox"/>	DITCH TYPES	5	<input type="checkbox"/> M-607-3	<input type="checkbox"/>	BARRIER FENCE	90	<input checked="" type="checkbox"/> S-614-2	<input type="checkbox"/>	CLASS I SIGNS	138
<input checked="" type="checkbox"/> M-203-11	<input type="checkbox"/>	SUPERELEVATION CROWNED AND DIVIDED HIGHWAYS (3 SHEETS)	6-8	<input checked="" type="checkbox"/> M-607-4	<input type="checkbox"/>	DEER FENCE AND GATES (2 SHEETS)	91-92	<input checked="" type="checkbox"/> S-614-3	<input type="checkbox"/>	CLASS II SIGNS	139
<input checked="" type="checkbox"/> M-203-12	<input type="checkbox"/>	SUPERELEVATION STREETS (2 SHEETS)	9-10	<input type="checkbox"/> M-607-10	<input type="checkbox"/>	PICKET SNOW FENCE	93	<input checked="" type="checkbox"/> S-614-4	<input checked="" type="checkbox"/>	CLASS III SIGNS (3 SHEETS) (REVISED, DECEMBER 29, 2009)	140-142
<input checked="" type="checkbox"/> M-206-1	<input type="checkbox"/>	EXCAVATION AND BACKFILL FOR STRUCTURES (2 SHEETS)	11-12	<input type="checkbox"/> M-607-15	<input type="checkbox"/>	ROAD CLOSURE GATE (9 SHEETS)	94-102	<input checked="" type="checkbox"/> S-614-5	<input type="checkbox"/>	BREAK-AWAY SIGN SUPPORT DETAILS FOR GROUND SIGNS (2 SHEETS)	143-144
<input type="checkbox"/> M-206-2	<input type="checkbox"/>	EXCAVATION AND BACKFILL FOR BRIDGES (2 SHEETS)	13-14	<input checked="" type="checkbox"/> M-608-1	<input type="checkbox"/>	CURB RAMPS (4 SHEETS)	103-106	<input checked="" type="checkbox"/> S-614-6	<input type="checkbox"/>	CONCRETE FOOTINGS AND SIGN ISLANDS FOR CLASS III SIGNS (2 SHEETS)	145-146
<input type="checkbox"/> M-208-1	<input checked="" type="checkbox"/>	TEMPORARY EROSION CONTROL (7 SHEETS) (REVISED ON JULY 09, 2009)	<del>15-21</del>	<input type="checkbox"/> M-609-1	<input checked="" type="checkbox"/>	CURBS, GUTTERS, AND SIDEWALKS (4 SHEETS) (REVISED ON JULY 09, 2009)	<del>107-109</del>	<input type="checkbox"/> S-614-8	<input checked="" type="checkbox"/>	TUBULAR STEEL SIGN SUPPORT DETAILS (5 SHEETS) (REVISED ON DEC. 07, 2009)	<del>147-151</del>
<input type="checkbox"/> M-210-1	<input type="checkbox"/>	MAILBOX SUPPORTS (2 SHEETS)	22-23	<input type="checkbox"/> M-611-1	<input type="checkbox"/>	CATTLE GUARD (2 SHEETS)	110-111	<input checked="" type="checkbox"/> S-614-10	<input type="checkbox"/>	MARKER ASSEMBLY INSTALLATIONS	152
<input checked="" type="checkbox"/> M-214-1	<input type="checkbox"/>	PLANTING DETAILS	24	<input checked="" type="checkbox"/> M-613-1	<input type="checkbox"/>	ROADWAY LIGHTING (4 SHEETS)	112-115	<input type="checkbox"/> S-614-11	<input type="checkbox"/>	MILEPOST SIGN DETAIL FOR HIGH SNOW AREAS (NEW ON JUNE 22, 2009)	
<input type="checkbox"/> M-412-1	<input checked="" type="checkbox"/>	CONCRETE PAVEMENT JOINTS (5 SHEETS) (REVISED ON JULY 09, 2009)	<del>25-29</del>	<input type="checkbox"/> M-614-1	<input type="checkbox"/>	RUMBLE STRIPS (3 SHEETS)	116-118	<input checked="" type="checkbox"/> S-614-12	<input type="checkbox"/>	STRUCTURE NUMBER INSTALLATION	153
<input type="checkbox"/> M-510-1	<input type="checkbox"/>	STRUCTURAL PLATE PIPE H-20 LOADING	30	<input checked="" type="checkbox"/> M-614-2	<input type="checkbox"/>	SAND BARREL ARRAYS (2 SHEETS)	119-120	<input type="checkbox"/> S-614-14	<input type="checkbox"/>	FLASHING BEACON AND SIGN INSTALLATIONS (3 SHEETS)	154-156
<input checked="" type="checkbox"/> M-601-1	<input type="checkbox"/>	SINGLE CONCRETE BOX CULVERT (2 SHEETS)	31-32	<input type="checkbox"/> M-615-1	<input type="checkbox"/>	EMBANKMENT PROTECTOR TYPE 3	121	<input type="checkbox"/> S-614-20	<input type="checkbox"/>	TYPICAL POLE MOUNT SIGN INSTALLATIONS	157
<input type="checkbox"/> M-601-2	<input type="checkbox"/>	DOUBLE CONCRETE BOX CULVERT (2 SHEETS)	33-34	<input type="checkbox"/> M-615-2	<input type="checkbox"/>	EMBANKMENT PROTECTOR TYPE 5	122	<input type="checkbox"/> S-614-21	<input type="checkbox"/>	CONCRETE BARRIER SIGN POST INSTALLATIONS	158
<input type="checkbox"/> M-601-3	<input type="checkbox"/>	TRIPLE CONCRETE BOX CULVERT (2 SHEETS)	35-36	<input type="checkbox"/> M-616-1	<input type="checkbox"/>	INVERTED SIPHON	123	<input type="checkbox"/> S-614-22	<input type="checkbox"/>	TYPICAL MULTI-SIGN INSTALLATIONS	159
<input checked="" type="checkbox"/> M-601-10	<input type="checkbox"/>	HEADWALL FOR PIPES	37	<input type="checkbox"/> M-620-1	<input type="checkbox"/>	FIELD LABORATORY CLASS 1	124	<input type="checkbox"/> S-614-40	<input type="checkbox"/>	TYPICAL TRAFFIC SIGNAL INSTALLATION DETAILS (7 SHEETS)	160-166
<input type="checkbox"/> M-601-11	<input type="checkbox"/>	TYPE "S" SADDLE HEADWALLS FOR PIPE	38	<input checked="" type="checkbox"/> M-620-2	<input type="checkbox"/>	FIELD LABORATORY CLASS 2	125	<input type="checkbox"/> S-614-40A	<input type="checkbox"/>	ALTERNATIVE TRAFFIC SIGNAL INSTALLATION DETAILS (5 SHEETS)	167-171
<input type="checkbox"/> M-601-12	<input type="checkbox"/>	HEADWALLS AND PIPE OUTLET PAVING	39	<input type="checkbox"/> M-620-11	<input type="checkbox"/>	FIELD OFFICE CLASS 1	126	<input type="checkbox"/> S-614-50	<input type="checkbox"/>	MONOTUBE OVERHEAD SIGNS (14 SHEETS)	172-185
<input checked="" type="checkbox"/> M-601-20	<input type="checkbox"/>	WINGWALLS FOR PIPE OR BOX CULVERTS	40	<input checked="" type="checkbox"/> M-620-12	<input type="checkbox"/>	FIELD OFFICE CLASS 2	127	<input type="checkbox"/> S-627-1	<input checked="" type="checkbox"/>	PAVEMENT MARKINGS (5 SHEETS) (REVISED ON SEPTEMBER 24, 2009)	<del>186-190</del>
<input type="checkbox"/> M-603-1	<input checked="" type="checkbox"/>	METAL AND PLASTIC PIPE (2 SHEETS) (REVISED ON JULY 09, 2009)	<del>41-42</del>	<input checked="" type="checkbox"/> M-629-1	<input type="checkbox"/>	SURVEY MONUMENTS (2 SHEETS)	128-129	<input type="checkbox"/> S-630-1	<input checked="" type="checkbox"/>	TRAFFIC CONTROLS FOR HIGHWAY CONSTRUCTION (19 SHEETS) (REVISED ON DEC. 07, 2009)	<del>191-202</del>
<input checked="" type="checkbox"/> M-603-2	<input type="checkbox"/>	REINFORCED CONCRETE PIPE	43					<input checked="" type="checkbox"/> S-630-2	<input type="checkbox"/>	BARRICADES, DRUMS, CONCRETE BARRIERS (TEMP) AND VERTICAL PANELS	203
<input type="checkbox"/> M-603-3	<input checked="" type="checkbox"/>	PRECAST CONCRETE BOX CULVERT (REVISED ON JULY 09, 2009)	<del>44</del>					<input checked="" type="checkbox"/> S-630-3	<input type="checkbox"/>	FLASHING BEACON (PORTABLE) DETAILS	204
<input type="checkbox"/> M-603-4	<input type="checkbox"/>	CORRUGATED POLYETHYLENE PIPE (AASHTO M293) (NEW, JULY 09, 2009)									
<input checked="" type="checkbox"/> M-603-10	<input type="checkbox"/>	CONCRETE AND METAL END SECTIONS (2 SHEETS)	45-46								
<input checked="" type="checkbox"/> M-604-10	<input type="checkbox"/>	INLET, TYPE C	47								
<input checked="" type="checkbox"/> M-604-11	<input type="checkbox"/>	INLET, TYPE D	48								
<input checked="" type="checkbox"/> M-604-12	<input type="checkbox"/>	CURB INLET TYPE R (2 SHEETS)	49-50								
<input type="checkbox"/> M-604-13	<input type="checkbox"/>	CONCRETE INLET TYPE 13	51								
<input checked="" type="checkbox"/> M-604-20	<input type="checkbox"/>	MANHOLES (3 SHEETS)	52-54								
<input type="checkbox"/> M-604-25	<input type="checkbox"/>	VANE GRATE INLET (5 SHEETS)	55-59								
<input type="checkbox"/> M-605-1	<input type="checkbox"/>	SUBSURFACE DRAINS (REVISED ON JULY 09, 2009)	<del>60</del>								
<input checked="" type="checkbox"/> M-606-1	<input type="checkbox"/>	GUARDRAIL TYPE 3 W-BEAM (16 SHEETS)	61-76								
<input type="checkbox"/> M-606-13	<input type="checkbox"/>	GUARDRAIL TYPE 7 F-SHAPE BARRIER (4 SHEETS)	77-80								
<input checked="" type="checkbox"/> M-606-14	<input type="checkbox"/>	PRECAST TYPE 7 CONCRETE BARRIER (3 SHEETS)	81-83								

THE STANDARD PLAN SHEETS INDICATED HEREON BY A MARKED BOX ARE TO BE USED TO CONSTRUCT THIS PROJECT.

ALL OF THE M&S STANDARD PLANS, AS SUPPLEMENTED AND REVISED, APPLY TO THIS PROJECT WHEN USED BY DESIGNATED PAY ITEM OR SUBSIDIARY ITEM.

**COLORADO**  
 DEPARTMENT OF TRANSPORTATION  
**STANDARD PLANS LIST**  
**M&S STANDARDS**  
 July 04, 2006  
 REVISED ON DEC. 29, 2009



**FELSBURG  
HOLT &  
ULLEVIG**

Print Date: 1/6/2010	<b>Sheet Revisions</b>			Colorado Department of Transportation		As Constructed		EDWARDS INTERCHANGE UPGRADE STANDARD PLANS LIST		Project No./Code	
Drawing File Name: 17303STDPLANS01.dgn	Date:	Comments	Init.	714 Grand Avenue, P.O. Box 298 Eagle, CO 81631 Phone: 970-328-6385 FAX: 970-328-2368 Region 3 MLM		No Revisions:  Revised: <b>6-6-2011</b>  Void:		Designer: KMH Detailer: TBS Sheet Subset: SPL		Structure Numbers Subset Sheets: SP-01 of 1 ES3 0702-297 17303 Sheet Number 2	
Horiz. Scale: 1:1	01/08/10	S614-4, S-614-8 & S-630-1 revised	JMK								
Unit Information											



**GENERAL NOTES:**

1. ALL CONSTRUCTION SHALL BE COMPLETED PER THE COLORADO DEPARTMENT OF TRANSPORTATION (CDOT) STANDARD PLANS AND SPECIFICATIONS, LATEST EDITION.
2. UTILITY LOCATIONS SHOWN ON THE PLANS ARE FROM THE BEST AVAILABLE INFORMATION (ASCE STANDARD QUALITY LEVEL C). THE CONTRACTOR'S ATTENTION IS DIRECTED TO SUBSECTION 105.10 OF THE STANDARD SPECIFICATIONS.
3. THE CONTRACTOR SHALL COMPLY WITH ARTICLE 1.5 OF TITLE 9, CRS ("EXCAVATION REQUIREMENTS") WHEN EXCAVATING OR GRADING IS PLANNED IN THE AREA OF UNDERGROUND UTILITY FACILITIES. THE CONTRACTOR SHALL NOTIFY ALL AFFECTED UTILITIES AT LEAST TWO (2) BUSINESS DAYS, NOT INCLUDING THE ACTUAL DAY OF NOTICE PRIOR TO COMMENCING SUCH OPERATIONS. THE CONTRACTOR SHALL CONTACT THE UTILITY NOTIFICATION CENTER OF COLORADO (UNCC) AT 811 OR 1-800-922-1987, TO HAVE LOCATIONS OF UNCC REGISTERED LINES MARKED BY MEMBER COMPANIES. ALL OTHER UNDERGROUND FACILITIES SHALL BE LOCATED BY CONTACTING THE RESPECTIVE OWNER. UTILITY SERVICE LATERALS SHALL BE ALSO BE LOCATED PRIOR TO BEGINNING EXCAVATION OR GRADING. LOCATION AND NOTIFICATION OF BOTH UNCC AND NON-MEMBER UTILITIES IN THE CONTRACTOR'S RESPONSIBILITY.
4. IT IS REQUIRED THAT THE CONTRACTOR INITIATE A REQUEST TO HOLY CROSS ENERGY FOR ANY CONSTRUCTION RELATED TEMPORARY ELECTRICAL POWER SOURCES AS SOON AS POSSIBLE. THE REQUEST SHOULD BE MADE THROUGH HOLY CROSS ENERGY, (970) 949-5892.
- (R-1) 5. IT IS ESTIMATED THAT 100 HOURS OF POTHOLING FOR UTILITY WORK, INCLUDING AREA FOR NEW ELECTRICAL CONDUIT ON BERRY CREEK ROAD, WILL BE USED ON THE PROJECT REQUIRED AND AS DIRECTED BY ENGINEER.
6. UTILITY CONTACTS FOR THE PROJECT ARE SHOWN ON SHEET UT-01.
7. ALL AREAS WITHIN THE CONSTRUCTION LIMITS SHALL BE CLEARED AND GRUBBED. CLEARING AND GRUBBING SHALL INCLUDE REMOVAL AND DISPOSAL OF TRASH, DEBRIS, LARGE ROCKS, TREES, TREE STUMPS, BUSHES, LANDSCAPING, ETC. UNLESS SPECIFICALLY DESIGNATED TO REMAIN.
8. ALL REMOVED MATERIAL, INCLUDING BUT NOT LIMITED TO ASPHALT PAVEMENT, CONCRETE PAVEMENT, CONCRETE CURB, GUTTER AND SIDEWALK SHALL BECOME THE PROPERTY OF THE CONTRACTOR AND SHALL BE HAULED OFF SITE, AND NOT BE BURIED ONSITE, UNLESS OTHERWISE NOTED IN THE PLANS.
9. AT LEAST SEVEN DAYS PRIOR TO REMOVAL OF ANY TREE, THE CONTRACTOR SHALL MARK EACH TREE TO BE REMOVED WITH SURVEY RIBBON AND NOTIFY THE ENGINEER IN WRITING. THE TREE SHALL NOT BE REMOVED UNTIL THE CONTRACTOR HAS RECEIVED WRITTEN CONFIRMATION FROM THE ENGINEER. THE CONTRACTOR WILL BE HELD RESPONSIBLE IF THE CONTRACTOR DOES NOT FOLLOW THIS PROCEDURE AND/OR THE CONTRACTOR REMOVES A TREE THAT IS TO REMAIN OR BE TRANSPLANTED. THE CONTRACTOR SHALL PLANT AN APPROVED REPLACEMENT TREE SPECIES AT A 5:1 RATIO BASED ON THE CALIPER OF THE REMOVED TREE.
- (R-1) 10. DEPTH OF MOISTURE DENSITY CONTROL FOR THIS PROJECT SHALL MEET THE EXPECTATIONS DEFINED IN THE PROJECT SPECIAL SPECIFICATIONS UNDER:  
 REVISION OF SECTION 203 - EXCAVATION AND EMBANKMENT  
 EXCAVATION REQUIRED FOR COMPACTION OF BASES OF CUTS AND FILLS SHALL BE CONSIDERED AS SUBSIDIARY TO THE EARTHWORK, AND WILL NOT BE PAID FOR SEPARATELY.
11. FOR PRELIMINARY PLAN QUANTITIES OF PAVEMENT STRUCTURE MATERIALS, THE FOLLOWING RATES OF APPLICATION WERE USED:  
 TACK COAT DILUTED EMULSIFIED ASPHALT (SLOW SETTING)(DILUTED):.....0.10 GAL/SQ. YD  
 BITUMINOUS PAVEMENT:.....110 LB./SQ. YD/INCH  
 AGGREGATE BASE COURSE:.....133.0 LB./CU FT.  
 DILUTED EMULSIFIED ASPHALT FOR TACK COAT SHALL CONSIST OF 1 PART EMULSIFIED ASPHALT AND 1 PART WATER. A TACK COAT WILL BE REQUIRED BETWEEN LAYERS OF BITUMINOUS PAVEMENT. RATES OF APPLICATION SHALL BE AS DETERMINED BY THE ENGINEERS AT THE TIME OF APPLICATION.
12. WATER USED AS A DUST PALLIATIVE WILL NOT BE PAID OR SEPARATELY, BUT SHALL BE INCLUDED IN THE WORK AND MEET THE PROVISIONS OF SECTION 209 OF THE STANDARD SPECIFICATIONS.
13. WHERE IT IS REQUIRED TO CUT ANY EXISTING ASPHALT PAVEMENT, CONCRETE PAVEMENT, SIDEWALK, CURB AND GUTTER, OR ANY OTHER SURFACING, ALL CUTTING SHALL BE SAW CUT ONLY. SAW CUTTING WILL NOT BE PAID FOR SEPARATELY, BUT SHALL BE INCLUDED IN THE WORK.
14. A HEAVY UNDILUTED TACK COAT IS REQUIRED FOR ENTIRE WIDTH OF PAVEMENT BETWEEN LIFTS AND BETWEEN NEW PAVEMENT AND ANY ABUTTING SURFACE, SUCH AS CURBING, EXISTING PAVEMENT, ETC.
15. THE CONTRACTOR SHALL SUBMIT A PAVING SEQUENCE SCHEDULE TO THE ENGINEER AT LEAST 10 WORKING DAYS PRIOR TO BEGINNING THE PAVING OPERATION. PAVING SHALL NOT BEGIN UNTIL THE SCHEDULE HAS BEEN ACCEPTED IN WRITING BY THE ENGINEER.

16. ALL COMPACTION SHALL BE 95% AASHTO T 180 METHOD A FOR A-6 AND A-7 SOILS AND 95% AASHTO T 180 FOR A-1 THRU A-5 SOILS AND SHALL BE REQUIRED TO ROADWAY PRISM. DURING FILL PLACEMENT, THE FILL SHOULD BE ADJUSTED TO A MOISTURE CONTENT WITHIN 2 PERCENTAGE POINTS OF OPTIMUM AND COMPACTED TO AT LEAST 95% OF THE MAXIMUM MODIFIED PROCTOR DENSITY (AASHTO T 180 METHOD A) FOR ALL SOILS.
17. PAVING SHALL NOT BEGIN UNTIL THE ENGINEER HAS APPROVED THE SUBGRADE. THE PAVEMENT SUBGRADE SHALL BE PROOF ROLLED AND APPROVED BY THE ENGINEER PRIOR TO THE PLACEMENT OF ANY PAVEMENT. AREAS WHICH DEFORM UNDER HEAVY WHEEL LOADS AS DETERMINED BY THE ENGINEER ARE NOT STABLE AND SHALL BE REMOVED AND REPLACED TO ACHIEVE A STABLE SUBGRADE PRIOR TO PAVING. THE ENGINEER TO APPROVE THE TYPE AND WEIGHT OF THE VEHICLE TO BE USED FOR THE PROOF ROLL. THE CONTRACTOR SHALL PROVIDE ALL EQUIPMENT AND LABOR NECESSARY FOR THE PROOF ROLL. PROOF ROLLING WILL NOT BE PAID FOR SEPARATELY, BUT SHALL BE INCLUDED IN THE WORK.
18. ANY LAYER OF BITUMINOUS PAVEMENT THAT IS TO HAVE A SUCCEEDING LAYER PLACED THEREON SHALL BE COMPLETED THE FULL WIDTH BEFORE THE SUCCEEDING LAYER IS PLACED.
19. WHERE THE NEW CURB AND GUTTER MATCHES THE EXISTING CURB AND GUTTER, FIELD ADJUST THE CURB AND GUTTER GRADES AS NECESSARY TO PROVIDE POSITIVE DRAINAGE AND TO PROHIBIT PONDING IN THE GUTTER.
20. THE CONTRACTOR SHALL PROTECT ALL EXISTING SURVEY MONUMENTATION, DESIGNATED TO REMAIN, FROM DAMAGE DURING CONSTRUCTION. ANY MONUMENTS DISTURBED BY THE CONTRACTOR SHALL BE RESET AT HIS OWN EXPENSE AND DOCUMENTED BY A LICENSED LAND SURVEYOR. THE CONTRACTOR AND THE ENGINEER SHALL NOTE THOSE MONUMENTS IN THE FIELD PRIOR TO CONSTRUCTION.
21. THE CONTRACTOR SHALL BE REQUIRED TO BROOM OR OTHERWISE CLEAN THE TRAVELED ROADWAY AND PARKING AREAS WHEN OPERATIONS ARE USING OR CROSSING THE AFFECTED FACILITIES. THE BROOMING MAY BE REQUIRED ON A DAILY BASIS OR AS DIRECTED BY THE ENGINEER.
22. THE CONTRACTOR SHALL PROTECT ALL WORK AREAS AND FACILITIES FROM WATER AT ALL TIMES. AREAS AND FACILITIES SUBJECTED TO FLOODING, REGARDLESS OF THE SOURCE OF WATER SHALL BE PROMPTLY DEWATERED AND RESTORED AT NO COST TO THE OWNER.
23. CONTRACTOR WILL NOT BE ALLOWED TO WORK ON WEEKENDS UNLESS AUTHORIZED BY THE ENGINEER.
24. THE CONTRACTOR SHALL LIMIT CONSTRUCTION ACTIVITIES TO THOSE AREAS WITHIN THE LIMITS OF DISTURBANCE AND/OR TOES OF SLOPE AS SHOWN ON THE PLANS AND CROSS SECTION. ANY DISTURBANCES BEYOND THESE LIMITS SHALL BE RESTORED TO ORIGINAL CONDITION BY THE CONTRACTOR AT THE CONTRACTOR'S EXPENSE. CONSTRUCTION ACTIVITIES IN ADDITION TO NORMAL CONSTRUCTION PROCEDURE SHALL INCLUDE THE PARKING OF VEHICLES OR EQUIPMENT, DISPOSAL OF LITTER, AND ANY OTHER ACTION WHICH WOULD ALTER EXISTING CONDITIONS.
25. EROSION CONTROL MEASURES MUST BE IMPLEMENTED BEFORE CONSTRUCTION AND GRADING OPERATIONS BEGIN.
26. THE CONTRACTOR SHALL BE AWARE OF RESIDENCES WITHIN THE AREA. THE CONTRACTOR WILL BE LIMITED TO CONSTRUCTION ACTIVITIES WITHIN THE RESIDENTIAL AREAS BETWEEN 7:00 AM TO 7:00 PM. THERE WILL BE NO CONSTRUCTION RELATED TRUCK TRAFFIC THROUGH RESIDENTIAL NEIGHBORHOODS. ALL CONSTRUCTION EQUIPMENT IS TO BE WELL-MAINTAINED AND INCLUDE APPROPRIATE SOUND CONTROL MEASURES, SUCH AS MUFFLERS AND SOUND ENCLOSURES. IF THE ENGINEER OR THE COUNTY RECEIVE COMPLAINTS ABOUT CONSTRUCTION NOISE, THE CONTRACTOR WILL ASSIST TO LIMIT THE NOISE OUTPUT FROM CONSTRUCTION. THESE MEASURES MAY INCLUDE NOISE BLANKETS ON ENGINES AND QUIET USE GENERATORS. SEE SPECIAL PROVISIONS SECTIONS 104 AND 630 FOR ADDITIONAL INFORMATION.
27. IN THE EVENT THAT PROJECT PERSONNEL ENCOUNTER UNKNOWN SOIL AND/OR GROUNDWATER CONTAMINATION, CONSTRUCTION ACTIVITIES SHOULD CEASE IMMEDIATELY AND THE PROCEDURES OUTLINED IN THE CDOT STANDARD SPECIFICATION FOR ROAD AND BRIDGE CONSTRUCTION 250.03 SHALL BE FOLLOWED.
28. THE APPROPRIATE POLICE AND FIRE DEPARTMENT WILL BE CONTACTED PRIOR TO CONSTRUCTIONS TO ENSURE EMERGENCY ACCESS DURING CONSTRUCTION.
29. A GEOTECHNICAL REPORT ENTITLED "FINAL GEOTECHNICAL INVESTIGATION AND PAVEMENT DESIGN EDWARDS ACCESS ROAD (I-70C) EAGLE COUNTY" DATED MARCH 9, 2007 HAS BEEN PREPARED FOR THIS PROJECT BY YEH AND ASSOCIATES, INC.
30. THE SULFATE SEVERITY OF POTENTIAL EXPOSURE SHALL BE CLASS 1 FOR THIS PROJECT.
31. THE FIELD LAB (CLASS 2), FIELD OFFICE (CLASS 2), AND SANITARY FACILITY SHALL BE LOCATED AT THE EDWARDS REST AREA AT 220 EDWARDS ACCESS ROAD, 0.5 MILE SOUTH OF THE PROJECT. THE FIELD LAB, OFFICE, AND SANITARY FACILITY SHALL BE FULLY OPERATIONAL BEFORE CONSTRUCTION CAN BEGIN.
32. IF BRIDGE DISTURBANCE OR CONSTRUCTION ACTIVITIES ARE TO OCCUR ADJACENT TO THE EXISTING BRIDGE BETWEEN APRIL 1ST AND AUGUST 31ST, THE CONTRACTOR SHALL REMOVE EXISTING MIGRATORY BIRD NESTS ON THE BRIDGE STRUCTURE PRIOR TO APRIL 1ST. THIS PROCEDURE SHALL BE INCLUDED IN THE COST OF THE WORK AND SHALL NOT BE PAID FOR SEPARATELY. BRIDGE DISTURBANCE OR CONSTRUCTION ACTIVITIES INCLUDE, BUT ARE NOT LIMITED TO, MILLING, PAVING, MODIFICATIONS TO THE EXISTING BRIDGE RAIL, REMOVAL OF EXISTING BRIDGE RAIL AND DECK, OR OTHER MODIFICATIONS TO THE EXISTING STRUCTURE.
33. RECLAIMED ASPHALT PAVEMENT (RAP) IS ALLOWED FOR THIS PROJECT PER REVISION OF SECTION 401 RECLAIMED ASPHALT PAVEMENT. RAP IS ALSO ALLOWED FOR ABC IF THE RAP MEETS THE GRADATIONS FOR ABC SPECIFIED. FOR THE RAMP SHOULDERS, 100% RAP IS ACCEPTABLE.
34. STOCKPILING TOPSOIL SHALL BE INCLUDED IN THE COST OF TOPSOIL AND WILL NOT BE PAID FOR SEPARATELY.



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Drawing File Name: 06193GNR01.dgn	Date:	Comments	Init.	714 Grand Avenue, P.O. Box 298 Eagle, CO 81631 Phone: 970-328-6385 FAX: 970-328-2368 Region 3 MLM		No Revisions:		Designer: MKS Detailer: TS Sheet Subset: NOTES		ES3 0702-297			
Horiz. Scale: N/A      Vert. Scale: As Noted	(R-1) 01/08/10	Notes 5 & 10 revised.	JMK			Revised: 6-6-2011				Structure Numbers		17303	
Unit Information      Unit Leader Initials						Void:				Subset Sheets: GN-01 of 2		Sheet Number 3	



**GENERAL NOTES (CONTINUED):**

- 35. AS DIRECTED BY THE PROJECT ENGINEER, THE FOLLOWING LENGTH OF DEER FENCE, INCLUDING BRACE POSTS AND OTHER ANCILLARY ITEMS, WILL BE INSTALLED ADJACENT TO THE I-70 RAMPS AS IDENTIFIED.  
 EB ON RAMP: 630 LF  
 EB OFF RAMP: 750 LF  
 WB OFF RAMP: 50 LF  
 FOR WB ON RAMP SEE INFORMATION ON THE ROADWAY REMOVAL AND PLAN SHEETS.
- 36. IT IS ESTIMATED THAT 68 HOURS OF FRONT END LOADER (SPECIAL) WILL BE USED ON THE PROJECT FOR RIPRAP AND BOULDER WORK, AND AS DIRECTED BY THE ENGINEER.
- 37. IT IS ESTIMATED THAT 1 (ONE) LUMP SUM OF CONSTRUCTION SURVEYING AND 1 (ONE) LUMP SUM OF SETTLEMENT INSTRUMENTATION WILL BE REQUIRED FOR THIS PROJECT.
- 38. IT IS ESTIMATED THAT 1 (ONE) LUMP SUM OF PUBLIC INFORMATION SERVICES WILL BE REQUIRED FOR THIS PROJECT.
- 39. IT IS ESTIMATED THAT 200 LF OF FENCE (PLASTIC) AND ORANGE PAINT WILL BE REQUIRED TO OUTLINE THE UNDERGROUND TANKS IDENTIFIED ON SHEET PL-01 AND THE WELL IDENTIFIED ON SHEET PL-05. THE ORANGE PAINT WILL NOT BE PAID FOR SEPARATELY BUT WILL BE INCLUDED IN THE WORK.
- 40. PLEASE NOTE THAT THE REFERENCES IN THE PLANS AND SPECIFICATIONS TO MEDIAN COVER MATERIAL(RIVER ROCK) (STONE) (SPECIAL) WILL BE PAID FOR AS MEDIAN COVER MATERIAL (STONE) (SPECIAL).
- (R-1) 41. THE CONTRACTOR SHALL SUBMIT MATERIAL SAMPLES REPRESENTING ACTUAL PRODUCT, SIZE, COLOR, AND TEXTURE TO THE PROJECT ENGINEER FOR APPROVAL. CONTRACTOR SHALL NOT BEGIN CONSTRUCTION OF PATTERNED CONCRETE PAVEMENT, MEDIANS, AND ISLANDS UNTIL CONTRACTOR HAS RECEIVED APPROVAL FROM THE PROJECT ENGINEER. COLORED CONCRETE IS ACCEPTABLE. SPECS ARE AS FOLLOWS:

INDIVIDUAL STONE SIZES: 5 5/8" x 6" - 8" (RANDOM PATTERN)  
 TEXTURE: SLATE  
 JOINT WIDTH: 1/4"  
 JOINT DEPTH: 1/4"  
 COLOR: AS SHOWN IN PLANS IN SPECIFIC AREAS.

ONCE THE PROJECT ENGINEER HAS APPROVED THE MATERIALS, THE CONTRACTOR SHALL PROVIDE A MOCK-UP FOR EVALUATION OF SURFACE PREPARATION TECHNIQUES AND APPLICATION WORKMANSHIP. MOCK-UP AREA SHALL BE FIVE FEET BY FIVE FEET SQUARE OR OTHER SHAPE AS APPROVED BY THE PROJECT ENGINEER AS LONG AS THE OVERALL SQUARE FOOTAGE IS EQUAL TO 25. MOCK-UP AREA SHALL INCLUDE CONCRETE PAVEMENT, MEDIANS, AND ISLANDS. THE CONTRACTOR SHALL FINISH AREAS DESIGNATED BY THE PROJECT ENGINEER. THE CONTRACTOR SHALL NOT PROCEED WITH THE REMAINING WORK UNTIL THE WORKMANSHIP, COLOR, AND SHEEN ARE APPROVED BY THE PROJECT ENGINEER. THE CONTRACTOR SHALL REFINISH MOCK-UP AREA AS REQUIRED TO PRODUCE ACCEPTABLE WORK.



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Print Date: 1/8/2010	<b>Sheet Revisions</b>			Colorado Department of Transportation	<b>As Constructed</b>	<b>EDWARDS INTERCHANGE UPGRADE GENERAL NOTES</b>		Project No./Code	
Drawing File Name: 17303GNR02.dgn	Date:	Comments	Init.					ES3 0702-297	
Horiz. Scale: N/A	Vert. Scale: As Noted	(R-1) 01/08/10	Note #41 modified.	JMK	No Revisions:	Designer: MKS		Structure	
Unit Information	Unit Leader Initials				Revised: 6-6-2011	Detailer: TS		Numbers	
					Void:	Sheet Subset: NOTES		Subset Sheets: GN-02 of 2	
				Region 3	MLM			Sheet Number 4	



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Ref. No.			CONTRACT ITEM NO.	CONTRACT ITEM	UNIT	ROADWAY												PROJECT TOTALS	
BOOK	PAGE	SHEET				PLAN	AS CONST.												PLAN
00	05		201-00001	Clearing and Grubbing	ACRE	11.1	11.1										11.1	11.1	
00	10		202-00001	Removal of Structure	EACH	6	7										6	7	
00	15		202-00001	Removal of Structure (Irrigation)	EACH	1	1										1	1	
00	20		202-00019	Removal of Inlet	EACH	4	6										4	6	
00	25		202-00026	Removal of Slope and Ditch Paving	SY	646	464.25										646	464	
00	30		202-00033	Removal of Pipe	EACH	12	9										12	9	
00	35		202-00035	Removal of Pipe	LF	1,197	1,197										1,197	1,197	
00	40		202-00090	Removal of Delineator	EACH	21	21										21	21	
00	45		202-00155	Removal of Wall	LF	240	240										240	240	
00	50		202-00190	Removal of Concrete Median Cover Material	SY	263	263										263	263	
00	55		202-00203	Removal of Curb and Gutter	LF	2,457	2,457										2,457	2,480	
00	60		202-00210	Removal of Concrete Pavement	SY	387	896.6										387	897	
00	65		202-00220	Removal of Asphalt Mat	SY	23,079	23,151.3										23,079	23,151	
00	70		202-00250	Removal of Pavement Marking	SF	633	8646.3										633	8646	
00	75		202-00700	Removal of Light Standard	EACH	4	4										4	4	
00	80		202-00810	Removal of Ground Sign	EACH	21	24										21	24	
00	85		202-00821	Removal of Sign Panel	EACH	10	10										10	10	
00	90		202-00828	Removal of Traffic Signal Equipment	L S	1	1										1	1	
00	95		202-01000	Removal of Fence	LF	682	509										682	509	
01	00		202-01000	Removal of Fence (Special)	LF	182	182										182	182	
01	05		202-01130	Removal of Guardrail Type 3	LF	863	3245.5										863	3,246	
01	10		202-01140	Removal of Guardrail Type 4	LF	484	484										484	484	
01	15		202-04001	Plug Culvert	EACH	10	7										10	7	
01	20		202-04002	Clean Culvert	EACH	5	1										5	1	
01	25		203-00060	Embankment Material (Complete In Place)	CY	36,661	37,320.1										36,661	37,320	
01	30		203-01500	Blading	HOUR	65	0										65	0	
01	35		203-01510	Backhoe	HOUR	65	147.5										65	148	
01	40		203-01550	Dozing	HOUR	65	65										65	65	
01	45		203-01592	Front End Loader (Special)	HOUR	68	30										68	30	
01	50		203-01594	Combination Loader	HOUR	65	35.75										65	36	
01	55		203-01597	Potholing (R-1)	HOUR	100	60.5										100	61	
01	60		206-00000	Structure Excavation	CY	6,642	4018										6,642	4018	
01	65		206-00100	Structure Backfill (Class 1)	CY	7,269	6032.9										7,269	6,033	



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Print Date: 1/8/2010  
Drawing File Name: 17303\_SAQ1\_11-11-2009.dgn  
Horiz. Scale: 1:1 Vert. Scale: As Noted  
Unit Information Unit Leader Initials

Sheet Revisions		
Date:	Comments	Init.
01/08/10	Revised Potholing hours	JMK

Colorado Department of Transportation  
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As Constructed  
No Revisions:  
Revised: 6-6-2011  
Void:

SUMMARY OF APPROXIMATE QUANTITIES		
Designer: FHU Engineering	Structure Numbers	
Detailer: JMK		
Sheet Subset: SAQ	Subset Sheets: SQ-1 of SQ-7	

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INDEX			CONTRACT ITEM NO.	CONTRACT ITEM	UNIT	ROADWAY												PROJECT TOTALS		
BOOK	PAGE	SHEET				PLAN	AS CONST.													PLAN
01	70		206-00360	Mechanical Reinforcement of Soil	CY	2,861	2,861												2,861	2,861
01	75		206-01781	Shoring (Area 1)	L S	1	0												1	0
01	80		206-01782	Shoring (Area 2)	L S	1	0												1	0
01	85		207-00205	Topsoil	CY	3,945	4,002.4												3,945	4,002.4
01	90		207-00305	Wetland Topsoil	CY	57.4	0												57.4	0
01	95		208-00002	Erosion Log (12 Inch)	LF	4,120	1634												4,120	1634
02	00		208-00020	Silt Fence	LF	1,833	834												1,833	834
02	05		208-00040	Check Dam	EACH	18	4												18	4
02	10		208-00045	Concrete Washout Structure	EACH	3	4												3	4
02	15		208-00050	Storm Drain Inlet Protection	EACH	101	82.5												101	82.5
02	20		208-00070	Stabilized Construction Entrance	EACH	6	8												6	8
02	25		208-00103	Removal and Disposal of Sediment (Labor)	HOUR	60	11												60	11
02	30		208-00206	Erosion Control Supervisor	DAY	146	233												146	233
02	35		208-00300	Temporary Berms	LF	1,500	864												1,500	864
02	40		210-00065	Reset Monument (Type 3A)	EACH	1	1												1	1
02	45		210-00090	Reset Delineator	EACH	5	0												5	0
02	50		210-00750	Reset Light Standard	EACH	1	1												1	1
02	55		210-00810	Reset Ground Sign	EACH	27	23												27	23
02	60		210-00810	Reset Ground Sign (Special - Berry Creek Sign)	EACH	1	0.5												1	0.5
02	65		210-00815	Reset Sign Panel	EACH	17	17												17	17
02	70		210-01000	Reset Fence	LF	22	0												22	0
02	75		210-01130	Reset Guardrail Type 3	LF	26	50												26	50
02	80		210-04010	Adjust Manhole	EACH	8	10												8	10
02	85		210-04016	Modify Manhole (Special)	EACH	1	1												1	1
02	90		210-04020	Modify Inlet (Special)	EACH	1	0												1	0
02	95		212-00006	Seeding (Native)	ACRE	17	7.71												17	7.71
03	00		212-00028	Seeding (Wetlands)	ACRE	0.15	0												0.15	0
03	05		213-00004	Mulching (Weed Free Straw)	ACRE	17	4.5												17	4.5
03	10		214-00310	Deciduous Shrub (1 Gallon Container)	EACH	136	136												136	136
03	15		214-00350	Deciduous Shrub (5 Gallon Container)	EACH	50	50												50	50
03	20		214-00901	Perennials (Tubeling)	EACH	1,000	1,000												1,000	1,000
03	25		214-01010	Brush Layer Cutting	EACH	600	600												600	600
03	30		215-00000	Transplant Shrub	EACH	30	0												30	0



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Print Date: 11/12/2009  
Drawing File Name: 17303\_SAQ2\_11-11-2009.dgn  
Horiz. Scale: 1"=1' Vert. Scale: As Noted  
Unit Information Unit Leader Initials

Sheet Revisions		
Date:	Comments	Init.

Colorado Department of Transportation  

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No Revisions:  
Revised: 6-6-2011  
Void:

SUMMARY OF APPROXIMATE QUANTITIES		
Designer: FHU Engineering	Structure Numbers	
Detailer: JMK	Subset Sheets: SQ-2 of SQ-7	
Sheet Subset: SAQ		

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INDEX			CONTRACT ITEM NO.	CONTRACT ITEM	UNIT	ROADWAY												PROJECT TOTALS	
BOOK	PAGE	SHEET				PLAN	AS CONST.	PLAN	AS CONST.	PLAN	AS CONST.	PLAN	AS CONST.	PLAN	AS CONST.	PLAN	AS CONST.		
03	35		215-00060	Transplant Tree (3 to 6 Inch)	EACH	34	31											34	31
03	40		215-00100	Transplant Tree (Over 6 Inch)	EACH	5	5											5	5
03	45		216-00030	Soil Retention Blanket (Special)	SY	5,729	5137.9											5,729	5138
03	50		216-00041	Soil Retention Blanket (Straw/Coconut)	SY	5,727	9494.3											5,727	9494
03	55		304-06000	Aggregate Base Course (Class 6)	TON	9,607												9,607	10,738.84
03	60		403-34801	Hot Mix Asphalt (Grading SX) (100)	TON	2,861	4,365.41											2,861	4,365.41
03	65		411-03345	Asphalt Cement Performance Grade (PG 76-28)	TON	185	261.82											185	261.82
03	70		411-10255	Emulsified Asphalt (Slow-Setting)	GAL	2,609	1500											2,609	1500
03	75		412-00950	Concrete Pavement (9-1/2 Inch)	SY	10,420	10232.19											10,420	10,232
03	80		412-00951	Concrete Pavement (9-1/2 Inch) (Special)	SY	1,069	1001.5											1,069	1,002
03	85		412-00952	Concrete Pavement (9 1/2 Inch) (Fast Track)	SY	1,258	2129.9											1,258	2,130
03	90		420-00102	Getextile (Erosion Control) (Class 1)	SY	131	1855.1											131	1,855
03	95		504-04410	Block Facing	SF	6,368	6368											6,368	6,368
04	00		506-00010	Riprap (Special)	CY	447	403.8											447	404
04	05		506-00212	Riprap (12 Inch)	CY	56	97											56	97
04	10		506-00218	Riprap (18 Inch)	CY	525	11.6											525	12
04	15		506-00243	Riprap (42 Inch) (Special)	CY	97	97											97	97
04	20		507-00100	Concrete Slope and Ditch Paving (Reinforced)	CY	63	0											63	0
04	25		514-00000	Pipe Railing	LF	91	91											91	91
04	30		514-00200	Pedestrian Railing (Steel)	LF	779	747											779	747
04	35		601-01000	Concrete Class B	CY	35	60.53											35	60.5
04	40		601-03000	Concrete Class D	CY	37	38.5											37	38.5
04	45		601-03030	Concrete Class D (Box Culvert)	CY	53	60											53	60
04	50		601-03050	Concrete Class D (Wall)	CY	816	636.95											816	636.9
04	55		601-40300	Structural Concrete Coating	SY	1,135	1392.7											1,135	1,393
04	60		602-00000	Reinforcing Steel	LB	44,000	20986.7											44,000	20,986
04	65		602-00020	Reinforcing Steel (Epoxy Coated)	LB	48,915	49024											48,915	54,590
04	70		603-01180	18 Inch Reinforced Concrete Pipe	LF	1,491	1343											1,491	1343
04	75		603-01240	24 Inch Reinforced Concrete Pipe	LF	511	637											511	637
04	80		603-01300	30 Inch Reinforced Concrete Pipe	LF	109	101											109	101
04	85		603-01840	84 Inch Reinforced Concrete Pipe	LF	54	54											54	54
04	90		603-02180	23x14 Inch Reinforced Concrete Pipe Elliptical	LF	60	60											60	60
04	95		603-05018	18 Inch Reinforced Concrete End Section	EACH	3	3											3	3



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Print Date: 11/12/2009  
Drawing File Name: 17303\_SAO3\_11-11-2009.dgn  
Horiz. Scale: 1:1      Vert. Scale: As Noted  
Unit Information      Unit Leader Initials

Sheet Revisions		
Date:	Comments	Init.

Colorado Department of Transportation  
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Region 3      MLM

As Constructed  
No Revisions:  
Revised: 6-6-2011  
Void:

SUMMARY OF APPROXIMATE QUANTITIES  
Designer: FHU Engineering  
Detailer: JMK  
Sheet Subset: SAQ      Subset Sheets: SQ-3 of SQ-7

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ES3 0702-297  
17303  
Sheet Number 7

INDEX			CONTRACT ITEM NO.	CONTRACT ITEM	UNIT	ROADWAY														PROJECT TOTALS	
BOOK	PAGE	SHEET				PLAN	AS CONST.	PLAN	AS CONST.	PLAN	AS CONST.	PLAN	AS CONST.	PLAN	AS CONST.	PLAN	AS CONST.	PLAN	AS CONST.		
05	00		603-05024	24 Inch Reinforced Concrete End Section	EACH	4	4											4	4		
05	05		603-05030	30 Inch Reinforced Concrete End Section	EACH	1	0											1	0		
05	10		603-10120	12 Inch Corrugated Steel Pipe	LF	5	5											5	5		
05	15		603-50008	8 Inch Plastic Pipe	LF	100	41											100	41		
05	20		603-50008	8 Inch Plastic Pipe Sewer (PVC)	LF	129	89.4											129	89		
05	25		603-50010	10 Inch Plastic Pipe Sewer (PVC)	LF	238	242											238	242		
05	30		603-50012	12 Inch Plastic Pipe Sewer (PVC)	LF	824	934											824	934		
05	35		603-80790	12X8 Foot Concrete Arch Culvert (Precast)	LF	83	83											83	83		
05	40		604-00305	Inlet Type C (5 Foot)	EACH	4	6											4	6		
05	45		604-00505	Inlet Type D (5 Foot)	EACH	1	1											1	1		
05	50		604-16005	Inlet Type 16 (5 Foot)	EACH	2	2											2	2		
05	55		604-16505	Inlet Type 16 (Double) (5 Foot)	EACH	2	2											2	2		
05	60		604-19000	Inlet Special	EACH	1	1											1	1		
05	65		604-19105	Inlet Type R L 5 (5 Foot)	EACH	15	13											15	13		
05	70		604-19110	Inlet Type R L 5 (10 Foot)	EACH	8	7											8	7		
05	75		604-19205	Inlet Type R L 10 (5 Foot)	EACH	2	2											2	2		
05	80		604-30005	Manhole Slab Base (5 Foot)	EACH	1	3											1	3		
05	85		604-30010	Manhole Slab Base (10 Foot)	EACH	3	3											3	3		
05	90		604-30015	Manhole Slab Base (15 Foot)	EACH	1	1											1	1		
05	95		604-31020	Manhole Box Base (20 Foot)	EACH	1	1											1	1		
06	00		604-31025	Manhole Box Base (25 Foot)	EACH	1	1											1	1		
06	05		604-39010	Manhole Special (10 Foot)	EACH	2	3											2	3		
06	10		604-39011	Manhole Special (10 Foot) (Install Only)	EACH	3	3											3	3		
06	15		604-39015	Manhole Special (15 Foot)	EACH	2	3											2	3		
06	20		604-39020	Manhole Special (20 Foot)	EACH	1	0											1	0		
06	25		606-00301	Guardrail Type 3 (6-3 Post Spacing)	LF	181	1999											181	1999		
06	30		606-01340	End Anchorage Type 3D	EACH	2	1											2	1		
06	35		606-02003	End Anchorage (Nonflared)	EACH	1	7											1	7		
06	40		606-02005	End Anchorage (Flared)	EACH	1	1											1	1		
06	45		606-10700	Bridge Rail Type 7	LF	681	654											681	654		
06	50		607-00005	End Post	EACH	8	6											8	6		
06	55		607-00010	Corner and Line Broce Post	EACH	3	4											3	4		
06	60		607-11350	Fence Deer	LF	1,750	1647											1,750	1647		



Print Date: 11/12/2009  
Drawing File Name: 17303\_SQ4\_11-11-2009.dgn  
Horiz. Scale: 1:1  
Unit Information

Sheet Revisions		
Date:	Comments	Init.

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As Constructed  
No Revisions:  
Revised: 6-6-2011  
Void:

SUMMARY OF APPROXIMATE QUANTITIES		
Designer: FHU Engineering	Structure	
Detailer: JMK	Numbers	
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INDEX			CONTRACT ITEM NO.	CONTRACT ITEM	UNIT	ROADWAY												PROJECT TOTALS	
BOOK	PAGE	SHEET				PLAN	AS CONST.												
06	65		607-11525	Fence (Plastic)	LF	200	3099											200	3099
06	70		608-00006	Concrete Sidewalk (6 Inch)	SY	3,053	3177.1											3,053	3,177
06	75		608-00010	Concrete Curb Ramp	SY	254	262.85											254	263
06	80		608-00012	Curb Ramp (Special)	SY	116	149.6											116	150
06	85		609-20010	Curb Type 2 (Section B)	LF	894	892.5											894	893
06	90		609-21010	Curb and Gutter Type 2 (Section I-B)	LF	2,663	1979.5											2,663	1,980
06	95		609-21020	Curb and Gutter Type 2 (Section II-B)	LF	5,681	5793.8											5,681	5,794
07	00		609-21021	Curb and Gutter Type 2 (Section II-M) (Special)	LF	1,165	1165											1,165	1165
07	05		609-24000	Gutter Type 2 (Special)	LF	295	642											295	642
07	10		610-00020	Median Cover Material (Patterned Concrete) (4 Inch)	SF	7,904	7904											7,904	7904
07	15		610-00051	Median Cover Material (Stone) (Special)	TON	22	0											22	0
07	20		612-00001	Delineator (Type I)	EACH	40	36											40	36
07	25		612-00021	Delineator (Type I) (Barrier)	EACH	3	3											3	3
07	30		613-00100	1 Inch Electrical Conduit	LF	587	3657											587	3657
07	35		613-00200	2 Inch Electrical Conduit	LF	7,388	7405											7,388	7405
07	40		613-00402	4 Inch Electrical Conduit (Install Only)	LF	570	504											570	504
07	45		613-00602	6 Inch Electrical Conduit (Install Only)	LF	500	1296											500	1296
07	50		613-01400	4 Inch Electrical Conduit (Plastic)	LF	1,520	1239											1,520	1239
07	55		613-01600	6 Inch Electrical Conduit (Plastic)	LF	1,520	1198											1,520	1198
07	60		613-10000	Wiring	L S	1	1											1	1
07	65		613-16025	Luminaire (Special) (LED) (Step Light)	EACH	23	23											23	23
07	70		613-34180	Light Standard Metal (18 Foot)	EACH	19	19											19	19
07	75		613-34400	Light Standard Metal (40 Foot)	EACH	13	13											13	13
07	80		613-40000	Concrete Foundation Pad	EACH	32	33											32	33
07	85		613-50100	Lighting Control Center Cabinet	EACH	1	1											1	1
07	90		613-50100	Lighting Control Center Pedestal	EACH	1	1											1	1
07	95		613-70150	Luminaire High Pressure Sodium (150 Watt)	EACH	19	19											19	19
08	00		613-70250	Luminaire High Pressure Sodium (250 Watt) Type A	EACH	11	11											11	11
08	05		613-70250	Luminaire High Pressure Sodium (250 Watt) Type AA	EACH	4	4											4	4
08	10		614-00011	Sign Panel (Class I)	SF	38	34.63											38	35
08	15		614-00012	Sign Panel (Class II)	SF	862	888.5											862	889
08	20		614-00013	Sign Panel (Class III)	SF	565	553.2											565	553



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Drawing File Name: 17303\_SAQ5\_11-11-2009.dgn  
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Unit Information Unit Leader Initials

Sheet Revisions		
Date:	Comments	Init.

Colorado Department of Transportation  
 714 Grand Avenue, P.O. Box 298  
Eagle, CO 81631  
Phone: 970-328-6385 FAX: 970-328-2368  
Region 3 MLM

As Constructed  
No Revisions:  
Revised: 6-6-2011  
Void:

SUMMARY OF APPROXIMATE QUANTITIES		
Designer: FHU Engineering	Structure	
Detailer: JMK	Numbers	
Sheet Subset: SAQ	Subset Sheets: SQ-5 of SQ-7	

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ES3 0702-297  
17303  
Sheet Number 9

INDEX			CONTRACT ITEM NO.	CONTRACT ITEM	UNIT	ROADWAY												PROJECT TOTALS	
BOOK	PAGE	SHEET				PLAN	AS CONST.	PLAN	AS CONST.										
08	25		614-00040	Sign Post (Special)	LF	44	44											44	44
08	30		614-00612	Steel Sign Post (W 6x12)	LF	111	60.6											111	61
08	35		614-00615	Steel Sign Post (W 6x15)	LF	69	69											69	69
08	40		614-00818	Steel Sign Post (W 8x18)	LF	87	86.5											87	87
08	45		614-01026	Steel Sign Post (W 10x26)	LF	59	59											59	59
08	50		614-01583	Stl Sign Supp(2-1/2 In Rd Sch 80)(Po&Slip)	EACH	85	92											85	92
08	55		614-03001	Concrete Footing (Type 1)	EACH	8	4											8	4
08	60		614-03002	Concrete Footing (Type 2)	EACH	4	4											4	4
08	65		614-03003	Concrete Footing (Type 3)	EACH	4	4											4	4
08	70		614-03005	Concrete Footing (Type 5)	EACH	2	2											2	2
08	75		619-06120	12 Inch Ductile Iron Pipe	LF	550	727											550	727
08	80		619-75096	12 Inch Gate Valve	EACH	3	3											3	3
			<del>619-75096</del>	<del>12 Inch Gate Valve</del>	<del>EACH</del>	<del>3</del>	<del>3</del>											<del>3</del>	<del>3</del>
			<del>619-75096</del>	<del>12 Inch Gate Valve</del>	<del>EACH</del>	<del>3</del>	<del>3</del>											<del>3</del>	<del>3</del>
			<del>619-75096</del>	<del>12 Inch Gate Valve</del>	<del>EACH</del>	<del>3</del>	<del>3</del>											<del>3</del>	<del>3</del>
08	85		621-00425	Detour	L S	1	1											1	1
08	90		625-00000	Construction Surveying	L S	1	1											1	1
08	95		625-00015	Settlement Instrumentation	L S	1	1											1	1
09	00		626-00000	Mobilization	L S	1	1											1	1
09	05		626-01000	Public Information Services	L S	1	1											1	1
09	10		627-00001	Pavement Marking Point	GAL	95	181.31											95	181
09	15		627-00005	Epoxy Pavement Marking	GAL	18	43.5											18	44 R-6
09	20		627-01001	Preformed Plastic Pavement Marking (Type I)	SF	2492 -1,072	2495.1 -2499											2492	2495
09	25		627-02001	Preformed Plastic Pavement Marking (Type II)	SF	0	0											0	0
09	30		627-03001	Preformed Plastic Pavement Marking (Type III)	SF	1,880	2305.9											1,880	2,306
09	35		627-30327	Preformed Plastic Pavement Marking (Word-Symbol) (Type III)	SF	136	80.5											136	81
09	40		627-30332	Preformed Plastic Pavement Marking (Xwalk-Stop Line) (Type III)	SF	350	386.5											350	387
09	45		630-00000	Flogging	HOUR	7,200	16183.25											7,200	16183
09	50		630-00007	Traffic Control Inspection	DAY	76	98											76	98
09	55		630-00012	Traffic Control Management	DAY	146	247											146	247
09	60		630-80002	Flashing Beacon (Solar)	EACH	10	0											10	0
09	65		630-80338	Barricade (Type 3 M-D) (Temporary)	EACH	10	8											10	8



Print Date: 11/5/2009  
Drawing File Name: 17303\_SAQ6\_11-05-2009.dgn  
Horiz. Scale: 1:1  
Unit Information

Sheet Revisions			
R-6	Date:	Comments	Init.
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<input type="checkbox"/>			
<input type="checkbox"/>			

Colorado Department of Transportation  
714 Grand Avenue, P.O. Box 298  
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Region 3 MLM

As Constructed  
No Revisions:  
Revised: 6-6-2011  
Void:

SUMMARY OF APPROXIMATE QUANTITIES			
Designer: FHU Engineering	Structure Numbers		
Detailer: JMK	Subset Sheets: SQ-6 of SQ-7		
Sheet Subset: SAQ			

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ES3 0702-297  
17303  
Sheet Number 10X

INDEX			CONTRACT ITEM NO.	CONTRACT ITEM	UNIT	ROADWAY												PROJECT TOTALS	
BOOK	PAGE	SHEET				PLAN	AS CONST.												PLAN
09	70		630-80341	Construction Traffic Sign (Panel Size A)	EACH	78	55.5										78	55	
09	75		630-80342	Construction Traffic Sign (Panel Size B)	EACH	73	74.5										73	75	
09	80		630-80343	Construction Traffic Sign (Panel Size C)	EACH	8	4										8	4	
09	85		630-80344	Construction Traffic Sign (Special)	SF	759.25	646.25										759.25	646	
09	90		630-80350	Vertical Panel	EACH	100	115										100	115	
09	95		630-80355	Portable Message Sign Panel	EACH	8	6										8	6	
10	00		630-80358	Advance Warning Flashing or Sequencing Arrow Panel (C Type)	EACH	3	0										3	0	
10	05		630-80360	Drum Channelizing Device	EACH	116	291.5										116	292	
10	10		630-80363	Drum Channelizing Device (With Light) (Flashing)	EACH	50	50										50	50	
10	15		630-80364	Drum Channelizing Device (With Light) (Steady Burn)	EACH	175	0										175	0	
10	20		630-80370	Concrete Barrier (Temporary)	LF	2,500	3000										2,500	3000	
10	25		630-80380	Traffic Cone	EACH	500	562										500	562	
10	30		630-85006	Impact Attenuator (Sand Filled Plastic Barrel) (Temporary)	EACH	5	5										5	5	
10	35		630-85041	Impact Attenuator (Truck Mounted Attenuator)	DAY	15	0										15	0	
10	40		630-86810	Traffic Signal (Temporary)	EACH	3	3										3	3	
				FORCE ACCOUNT =====															
10	45		700-70010	F/A Minor Contract Revisions	F A	<del>5</del>											+	0	
10	50		700-70011	F/A Partnering	F A	<del>x</del>	6250										+	6250	
10	55		700-70012	F/A Asphalt Pavement Incentive	F A	<del>x</del>	-7576.56										+	-7576.56	
10	60		700-70013	F/A Concrete Pavement Incentive	F A	<del>x</del>	28681.09										+	28681.09	
10	65		700-70014	F/A Incentive	F A	<del>x</del>	0										+	0	
10	70		700-70016	F/A Fuel Cost Adjustment	F A	<del>x</del>	0										+	0	
10	75		700-70019	F/A Asphalt Cement Cost Adjustment	F A	<del>x</del>	-3341.33										+	-3341.33	
10	80		700-70022	F/A OJT Colorado Training Program	F A	<del>x</del>	2000										+	2000	
10	85		700-70028	F/A ESB Program	F A	<del>x</del>	0										+	0	
10	90		700-70034	F/A Pavement Heaters	F A	<del>x</del>	29527.60										+	29527.60	
10	95		700-70082	F/A Furnish & Install Electrical Service	F A	<del>x</del>	0										+	0	



Print Date: 11/12/2009  
Drawing File Name: 17303\_SAO7\_11-11-2009.dgn  
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Unit Information      Unit Leader Initials

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Date:	Comments	Init.

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No Revisions:  
Revised: 6-6-2011  
Void:

SUMMARY OF APPROXIMATE QUANTITIES		
Designer: FHU Engineering	Structure	
Detailer: JMK	Numbers	
Sheet Subset: SAQ	Subset Sheets: SQ-7 of SQ-7	

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Sheet Number

INDEX			CONTRACT ITEM NO.	CONTRACT ITEM	UNIT	ROADWAY										PROJECT TOTALS		
BOOK	PAGE	SHEET				PLAN	AS CONST.											PLAN
11	05		620-00002	Field Office (Class 2)	EACH	1	1										1	1
11	10		620-00012	Field Laboratory (Class 2)	EACH	1	1										1	1
11	15		620-00020	Sanitary Facility	EACH	1	1										1	1
11	20		506-01020	Geogrid Reinforcement	SY	0	8611.968										0	8,612
11	25		206-01010	Bed Course Material / 3" - 6" Rock used to stabilize CONSPAN Culvert	TON	0	228.68										0	228.68
11	30		304-09020	Permeable Aggregate Base Course / 3/4" Screened Rock	TON	0	293.02										0	293.02
11	35		504-06100	*Ground Nailed Wall	SF	0	3762.51										0	3,763
11	40		900-00006	Added Item (Dollar) / Value Engineering Incentive	DOL	0	<del>13600</del> 44210.63										0	<del>13600</del> 44210.63
11	45		900-00006	Added Item (Dollar) / American Civil Constructor's Engineering Fees	DOL	0	13600										0	13600
11	50		605-00060	6 Inch Perforated Pipe Underdrain	LF	0	180										0	180
11	55		304-02000	Aggregate Base Course (Class 2)	TON	0	4468.24										0	4468.24
11	60		202-00240	*Removal of Asphalt Mat (Planing)	SY	0	12254.40										0	12,254
11	65		604-19115	Inlet Type R L 5 (15 Foot)	EACH	0	1										0	1
11	70		603-02240	30x19 Inch Reinforced Concrete Pipe Elliptical	LF	0	89										0	89
11	75		609-21011	Curb and Gutter Type 2 (Section I-M)	LF	0	497										0	497
11	80		900-00006	Added Item (Dollar) / Meter Pit Materials Only	DOL	0	1										0	1
11	85		606-01395	*Transition Type 3L	EACH	0	8										0	8
11	90		604-39025	Manhole Special (25 Foot)	EACH	0	1										0	1
11	95		900-00006	Added Item (Dollar) / Additional Cost of Class DT Concrete	DOL	0	9840.94										0	9840.94
12	00		900-00012	Added Item (Foot) / 24 Inch RCP Furnish Only	LF	0	75										0	75
12	05		900-00007	Added Item (Each) / Inlet Type R L 5 (5 Foot) (Furnish Only)	EACH	0	2										0	2
12	10		900-00007	Added Item (Each) / Inlet Type R L 5 (10 Foot) (Furnish Only)	EACH	0	1										0	1
12	15		900-00007	Added Item (Each) / Manhole Slab Base (10 Foot) (Furnish Only)	EACH	0	1										0	1
12	20		900-00006	Added Item (Dollar) / Third Party Schedule Analyst	DOL	0	9692.35										0	9692.35
12	25		900-00006	Added Item (Dollar) / Kemp & Company/T.I.G. Lien; Date: January 6, 2011	DOL	0	0										0	0
12	30		900-00006	Added Item (Dollar) / <del>Contractor's Cont. Supp. Lien</del> Date: January 31, 2011 J+S Cont. Supp. Lien	DOL	0	0										0	0
12	35		900-00006	Added Item (Dollar) / Project Delays; Additional Overhead Costs	DOL	0	247048										0	247048
12	40		606-01380	*Transition Type 3H	EACH	0	1										0	1
12	45		606-01385	*Transition Type 3J	EACH	0	1										0	1
12	50		606-01390	*End Anchorage Type 3K	EACH	0	1										0	1

Print Date: 7/12/2011  
File Name: 17303\_SAQ\_0LD.dgn  
Horiz. Scale: 1:0.304801 Vert. Scale: As Noted  
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Sheet Revisions		
Date:	Comments	Init.


Colorado Department of Transportation  
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As Constructed	(NEW) SUMMARY OF APPROXIMATE QUANTITIES			Project No./Code
No Revisions:				IM 0702-265
Revised: 6-6-2011	Designer: FHU	Structure		17303
Void:	Detailer: JMK	Numbers		Sheet Number XXX
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INDEX			CONTRACT ITEM NO.	CONTRACT ITEM	UNIT	ROADWAY																PROJECT TOTALS	
BOOK	PAGE	SHEET				PLAN	AS CONST.	PLAN	AS CONST.	PLAN	AS CONST.	PLAN	AS CONST.	PLAN	AS CONST.	PLAN	AS CONST.	PLAN	AS CONST.	PLAN	AS CONST.		
12	55		616-30030	30 Inch Trash Guard	EACH	0	1													0	1		
12	60		616-30499	Trash Guard Special	EACH	0	1													0	1		
12	65		615-00030	Embankment Protector Type 3	EACH	0	2													0	2		
12	70		900-00006	Added Item (Dollar) / Violation of Working Time (Price Reductions)	DOL	0	-2250													0	-2250		
12	75		900-00006	Added Item (Dollar) / Out of Specification Materials (Price Reductions)	DOL	0	-404.88													0	-404.88		
12	80		900-00006	Added Item (Dollar) / Dalco Industries, Inc.; Lien	DOL	0	-3227.62													0	0		
12	85		625-00001	CONSTRUCTION SURVEYING (HOURLY)	HR																76		
12	90		629-01001	SURVEY MONUMENT (TYPE I)	EA.																13		
12	95		900-00014	ADDED ITEM (LUMP SUM) / ADDITIONAL WIRING	LS																1		
13	00		900-00006	ADDED ITEM (DOLLAR) / SUPPLIER LIEN	DOL																0		
13	05		900-00006	ADDED ITEM (DOLLAR) / ALERT	DOL																0		
13	10		900-00005	ADDED ITEM (DAY) / CPSS LIEN	DAY																0		
13	15		900-00006	ADDED ITEM (DOLLAR) / CORRECTED CPSS	DOL																0		

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Print Date: 7/12/2011	<input type="checkbox"/> (R-X) <input type="checkbox"/> <input type="checkbox"/> <input type="checkbox"/>	Sheet Revisions			Colorado Department of Transportation  714 Grand Avenue, P.O. Box 298 Eagle, CO 81631 Phone: 970-328-6385 FAX: 970-328-2368 Region 3 MLM	As Constructed	(NEW) SUMMARY OF APPROXIMATE QUANTITIES			Project No./Code	
File Name: 17303_SAQ_DLD.dgn		Date:	Comments	Init.		No Revisions:				IM 0702-265	
Horiz. Scale: 1:0.304801	Vert. Scale: As Noted				Revised: 6-6-2011	Designer: FHU	Structure	17303			
Unit Information	Unit Leader Initials				Void:	Detailer: JMK	Numbers	Sheet Number XXX			
						Sheet Subset: NEWSAQ	Subset Sheets: 2 of 2				

\* See Summary of Approximate Quantity Sheets on Plan sheets 5+6

REMOVALS AND RELOCATIONS

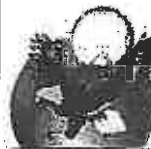
DRAINAGE AND UTILITIES NOT INCLUDED

LOCATION	CLEARING & GRUBBING	REMOVAL OF CONCRETE MEDIAN COVER MATERIAL	REMOVAL OF ASPHALT MAT	REMOVAL OF CURB AND GUTTER	REMOVAL OF CONCRETE PAVEMENT	REMOVAL OF GUARDRAIL TYPE 3	REMOVAL OF GUARDRAIL TYPE 4	REMOVAL OF FENCE	REMOVAL OF FENCE (SPECIAL)	REMOVAL OF DELINEATORS	REMOVAL OF TRAFFIC SIGNAL EQUIPMENT	REMOVAL OF WALL	REMOVAL OF LIGHT STANDARD	REMOVAL OF STRUCTURE	RESET DELINEATORS	RESET GROUND SIGN (SPECIAL - BERRY CREEK SIGN)	RESET FENCE	RESET LIGHT STANDARD
	AC	SY	SY	LF	SY	LF	LF	LF	LF	EACH	LS	LF	EACH	EACH	EACH	EA	LF	EACH
SHEET R-1	3.8	220	10722	1351	387	329	261			6	X		2	2	4	1	22	
SHEET R-2	4.5	43	6763	856		318	223	391	182		X	240	2					
SHEET R-3	0.9		2540	250				253		5								
SHEET R-4	1.3		1944					216		4					1			
SHEET R-5	0.6		1110					38		4								1
PROJECT TOTALS:	11.1	263	23079	2457	387	863	484	682	182	21	1	240	4	2	5	1	22	1

TREES


LOCATION	RESET GUARDRAIL TYPE 3	RESET MONUMENT (TYPE 3A)
	LF	EACH
SHEET R-1		1
SHEET R-2		
SHEET R-3		
SHEET R-4	26	
SHEET R-5		
PROJECT TOTALS:	26	1

LOCATION	TRANSPLANT TREE (2 TO 6 INCH)	TRANSPLANT TREE (OVER 6 INCH)
	EACH	EACH
SHEET TR-2	34	5
PROJECT TOTALS:	34	5



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REMOVALS FOR DRAINAGE, UTILITIES, SIGNS AND PAVEMENT MARKINGS ARE ON SUBSEQUENT SHEETS

Print Date: 11/5/2009	<p><b>Sheet Revisions</b></p> <table border="1"> <tr> <th>Date:</th> <th>Comments</th> <th>Init.</th> </tr> <tr> <td> </td> <td> </td> <td> </td> </tr> <tr> <td> </td> <td> </td> <td> </td> </tr> <tr> <td> </td> <td> </td> <td> </td> </tr> </table>	Date:	Comments	Init.										<p>Colorado Department of Transportation</p>  <p>714 Grand Avenue, P.O. Box 298 Eagle, CO 81631 Phone: 970-328-6385 FAX: 970-328-2368</p> <p>Region 3 MLM</p>	As Constructed	<p>EDWARDS INTERCHANGE UPGRADE TABULATION OF REMOVALS, ADJUSTMENTS AND RESETS</p>	Project No./Code
Date:		Comments	Init.														
Drawing File Name: 06193TAB01.dgn			No Revisions: <del> </del>	ES3 0702-297													
Horiz. Scale: N/A			Revised: 6-2011	Designer: KMH	Structure Numbers												
Unit Information			Void:	Detailer: TBS													
					Sheet Subset: TAB	Subset Sheets: PT-01 of 3	Sheet Number 12										

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Know what's below. Call before you dig.

ROADWAY

STATION / LOCATION	TOPSOIL	CONCRETE SIDEWALK (6 INCH)	CONCRETE CURB RAMP	CONCRETE CURB RAMP (SPECIAL)	CURB AND GUTTER TYPE 2 (SECTION I-B)	CURB AND GUTTER TYPE 2 (SECTION II-B)	CURB AND GUTTER TYPE 2 (SECTION II-M) (SPECIAL)	CURB TYPE 2 (SECTION B)	MEDIAN COVER MATERIAL (RIVER ROCK) STONE (SPECIAL)	AGGREGATE BASE COURSE (CLASS 6)	HOT MIX ASPHALT PAVEMENT (GRADING SX) (100) (PG 76-28)	ASPHALT CEMENT PERFORMANCE GRADE (PG 76-28)	EMULSIFIED ASPHALT (SLOW-SETTING)	CONCRETE PAVEMENT (9.5 INCH)	CONCRETE PAVEMENT (9.5 INCH) (FAST TRACK)	CONCRETE PAVEMENT (9.5 INCH) (SPECIAL)	GUARDRAIL TYPE 3 (6'3" POST SPACING)
	CY	SY	SY	SY	LF	LF	LF	LF	TON	TON	TON	TON	GAL	SY	SY	SY	LF
SHEET PL-01	345	421	86	108	825	1,187	317	262	12.5	1,533				3,653	541	255	
SHEET PL-02	380	627	47	8	648	1,038	317	250		1,225				2,626	550	312	
SHEET PL-03	694	701	47		476	1,005	330	274		1,162	75	5	82	2,646		266	
SHEET PL-04	664	672	34		499	847	201	108		1,011	466	32	508			236	
SHEET PL-05	106	112			215	208			9.6	238		0		689			
SHEET PL-06	68					208				422	145	10	132	299			
SHEET PL-07	96					50				741	339	23	308	212			32
SHEET PL-08	306					62				869	477	33	434	97			
SHEET PL-09	505					228				910	395	27	359	198	167		
SHEET PL-10	117									632	301	21	274				
SHEET PL-11	307	346				476				708	322	22	351				149
SHEET PL-12	127	174	40			372				157	156	11	161				
SPECIAL ASPHALT CONTINGENCY											185						
PROJECT TOTALS:	3,715	3,053	254	116	2,663	5,681	1,169	894	22	9,607	2,861	185	2,609	10,420	1,258	1,069	181

STATION / LOCATION	END ANCHORAGE TYPE 3D	END ANCHORAGE (NONFLARED)	END ANCHORAGE (FLARED)	MEDIAN COVER MATERIAL (4 INCH PATTERNED CONCRETE)	DEER FENCE	END POSTS	CORNER BRACE AND LINE POST
	EA	EA	EA	SF	LF	EA	EA
SHEET PL-01	1		1	2,101			
SHEET PL-02				2,118			
SHEET PL-03				2,237			
SHEET PL-04				1,448			
SHEET PL-05							
SHEET PL-06					750	2	2
SHEET PL-07					630	2	1
SHEET PL-08					320	2	
SHEET PL-09					50	2	
SHEET PL-10							
SHEET PL-11	1	1					
SHEET PL-12							
SPECIAL ASPHALT CONTINGENCY							
PROJECT TOTALS:	2	1	1	7,904	1,750	8	3

\* See Summary of Approximate Quantities Sheets



Print Date: 11/5/2009  
 Drawing File Name: 06193TA802.dgn  
 Horiz. Scale: N/A Vert. Scale: As Noted  
 Unit Information Unit Leader Initials

Sheet Revisions		
Date:	Comments	Init.

Colorado Department of Transportation  
 714 Grand Avenue, P.O. Box 298  
 Eagle, CO 81631  
 Phone: 970-328-6385 FAX: 970-328-2368  
 Region 3 MLM

As Constructed  
 No Revisions:   
 Revised: 6-6-2011  
 Void:  

EDWARDS INTERCHANGE UPGRADE  
 TABULATION OF  
 ROADWAY QUANTITIES  
 Designer: KMH Structure Numbers  
 Detailer: KMH  
 Sheet Subset: TAB Subset Sheets: PT-02 of 3

Project No./Code  
 ES3 0702-297  
 17303  
 Sheet Number 13



**SUMMARY OF EARTHWORK**

INDEX			ITEM	PROJECT TOTALS	
BOOK	PAGE	SHEET		CU. YDS.	
			<b>EMBANKMENT MATERIAL (CIP) ROADWAY (FROM CROSS-SECTIONS)</b>		
			EDWARDS ACCESS ROAD	4,278	
			WB ON RAMP	5,846	
			WB OFF RAMP	11	
			EB ON RAMP	646	
			EB OFF RAMP	252	
			MILLER RANCH ROAD ROUNDABOUT	709	
			EB RAMP ROUNDABOUT	1,822	
			WB RAMP ROUNDABOUT	2,257	
			BEARD/BERRY CREEK ROAD ROUNDABOUT	8,663	
			MILLER RANCH ROAD	625	
			BEARD CREEK ROAD	7,663	
			BERRY CREEK ROAD	1,241	
			BERRY CREEK ROAD DRIVEWAY	17	
			BERRY CREEK CHANNEL	2,631	
			SUBTOTAL	36,661	
			<b>TOTAL FOR PAY QUANTITY</b>	<b>36,661</b>	
			<b>UNCLASSIFIED EXCAVATION (CIP) ROADWAY (FROM CROSS-SECTIONS)</b>		
			EDWARDS ACCESS ROAD	4,883	
			WB ON RAMP	322	
			WB OFF RAMP	6,499	
			EB ON RAMP	136	
			EB OFF RAMP	124	
			MILLER RANCH ROAD ROUNDABOUT	4,428	
			EB RAMP ROUNDABOUT	780	
			WB RAMP ROUNDABOUT	5,130	
			BEARD/BERRY CREEK ROAD ROUNDABOUT	1	
			MILLER RANCH ROAD	688	
			BEARD CREEK ROAD	32	
			BERRY CREEK ROAD	66	
			BERRY CREEK ROAD DRIVEWAY	7	
			BERRY CREEK CHANNEL	1,428	
			SUBTOTAL	24,524	
			<b>TOTAL</b>	<b>24,524</b>	

**SUMMARY OF EARTHWORK (FOR INFORMATION ONLY)**

			<b>COMPACTION (MOISTURE &amp; DENSITY CONTROL) EMBANKMENT (NET) BASES OF CUTS &amp; FILLS</b>		
				36,661	
				15,066	
			TOTAL	51,727	
			<b>WETTING QUANTITIES COMPACTION (51727 x 0.040 M GAL/yd)</b>		
				M GAL	
				2,069	
			TOTAL	2,069	
			<b>ROADWAY QUANTITIES BALANCE</b>		
			EMBANKMENT (NET)	<del>36,661</del>	37320.1
			EMBANKMENT X FACTOR (1.15)	42,160	
			EMBANKMENT REQUIRED FOR SHRINKAGE BASES OF CUTS & FILLS	2,260	
			BALANCE TOTAL	44,420	
			UNCLASSIFIED EXCAVATION	24,524	
			TO BE IMPORTED BY CONTRACTOR	19,896	
			BALANCE TOTAL	44,420	

**EARTHWORK NOTES:**

- (R-1) 1. REQUIRED FILL TO ESTABLISH DESIGN SUBGRADE LEVEL SHOULD CONSIST OF SUITABLE IMPORTED SOIL MATERIAL THAT HAS A HVEEM 'R' VALUE OF AT LEAST 40.
- 2. PRIOR TO FILL PLACEMENT, TOPSOIL AND ANY DEBRIS SHOULD BE REMOVED AND THE SUBGRADE SHOULD BE SCARIFIED TO A DEPTH OF 12 INCHES, ADJUSTED TO NEAR OPTIMUM MOISTURE CONTENT AND COMPACTED TO AT LEAST 95% OF STANDARD PROCTOR DENSITY.
- 3. PRIOR TO CONSTRUCTION, THE CONTRACTOR SHALL SUBMIT SOIL TESTS, FROM THEIR DESIGNATED SOURCE, THAT MEET OR EXCEED ALL DESIGN SPECIFICATIONS AS WELL AS ALL CDDT SPECIFICATIONS.



Print Date: 1/6/2010	<b>Sheet Revisions</b>			Colorado Department of Transportation	<b>As Constructed</b>	<b>EDWARDS INTERCHANGE UPGRADE SUMMARY OF EARTHWORK</b>		Project No./Code
Drawing File Name: 06193TAB03.dgn	Date:	Comments	Init.	714 Grand Avenue, P.O. Box 298 Eagle, CO 81631 Phone: 970-328-6385 FAX: 970-328-2368 Region 3	No Revisions:	Designer: DCS	Structure Numbers	ES3 0702-297
Horiz. Scale: N/A	01/08/10	Revised Note # 1.	JMK		Revised: 6-6-2011	Detailer: DCS		17303
Unit Information					Void:	Sheet Subset: TAB	Subset Sheets: PT-03 of 3	Sheet Number 14 X
Vert. Scale: As Noted								
Unit Leader Initials								



**TO ESTABLISH GEOMETRIC CONTROL FOR THE CONSTRUCTION OF THIS PROJECT, THE DEPARTMENT HAS PROVIDED THE FOLLOWING INFORMATION:**

- Horizontal Control Control Diagram
- Vertical Control Control Diagram
- Roadway Alignment Plan Sheets
- Original Terrain Data Plan Sheets/Cross Sections
- Other: \_\_\_\_\_

\* Specify the information format, i.e., plan sheet, computer disk, computer printout, or other. The information marked is either contained on the plans or is available from the Engineer.

**TYPE OF PROJECT**

- Landscaping
- Signalization
- Safety Improvement
- Asphalt Overlay
- Concrete Overlay
- Minor Widening
- Major Reconstruction
- New Roadway Construction
- Bridge Replacement
- Bridge Widening
- New Bridge
- Other: \_\_\_\_\_

SURVEY WORK TO BE PERFORMED BY OTHERS: \_\_\_\_\_

**WORK PERFORMED BY THE CONTRACTOR'S SURVEYOR UNDER SECTION 625:**

- Establish and Maintain Project Centerline or Engineer Approved Offset Line(s)
- Verification and Maintenance of Horizontal and Vertical Control
- Verify or Determine existing grades and alignments
- Verify or Determine existing topography
- Clearing and Grubbing Limits (Section 201)
- Removal Limits (Section 202)
- Reset Items (Section 210)
- Excavation and Embankment (Section 203)

- Excavation
  - Unclassified
  - Stripping
  - Muck
  - Rock
  - Borrow
  - Other: \_\_\_\_\_
  - Patholing
- Embankment
- Site Grading
- Erosion Control (Perm)
- Other: Creek Realignment
- As Staked Earthwork Quantities (See General Notes)

	Slope Staking (Y/N)	Grid (Y/N)	Grade Stakes	Special Interval
Excavation	-	-	-	-
	-	-	-	-
	-	-	-	-
	-	-	-	-
	-	-	-	-
Embankment	25'	-	-	-
	25'	-	25'	-
	25'	-	-	-

- Landscaping
  - Top Soil (Section 207)
  - Seeding (Section 212)
  - Mulching (Section 213)
  - Planting (Section 214)
  - Herbicide (Section 217)
  - Other: Tree Transplant
- Erosion Control (Section 208)
  - Seeding (Temp)
  - Silt Fence
  - Erosion Boles
  - Erosion Logs
  - Riprap (Temp)
  - Other: \_\_\_\_\_
- Roadway Bases
  - Untreated Subgrade
  - Treated Subgrade
  - Aggregate Base Course (Section 304)
  - Reconditioning
  - PMBB - Plant Mix Bituminous Base
  - Other: \_\_\_\_\_

	Grid (Y/N)	Grade (Y/N)	Special Interval	Special Offset
Roadway Bases	-	-	-	-
	-	-	-	-
	-	-	-	-
	-	-	-	-
	-	-	-	-

- Pavements
  - HMA - Hot Mix Asphalt (Section 403)
  - Concrete (Section 412)
  - Heating & Scarifying Treatment
  - Prime Coat, Tack Coat & Rejuvenating Agent (Section 407)
  - Seal Coat or Chip Seal (Section 409)
  - Other: \_\_\_\_\_

	Grid (Y/N)	Special Interval	Special Offset
Pavements	-	-	-
	-	-	-
	-	-	-
	-	-	-
	-	-	-

- Roadway Elements
  - Curb and Gutter (Section 609)
  - Drop inlets - alignment and grades (Section 604)
  - Retaining Walls
  - Guard Rail (Section 606)
  - Sidewalk (Section 608)
  - Overlay Stationing
  - Other: \_\_\_\_\_

	Tangent Interval	Curve Interval	Special Offset
Curb & Gutter	-	-	-
	-	-	-
	-	-	-
	-	-	-
	-	-	-

- Riprap (Perm) (Section 506)
- Slope and Ditch Paving (Section 507)

	Left Interval	Center Interval	Right Interval
Stationing	-	-	-
	-	-	-
	-	-	-
	-	-	-
	-	-	-

- Minor Structures
  - Structure Excavation limits (Section 206)
  - Culverts (Section 603)
  - Culverts w/ Headwalls and Wingwalls (Section 601)
  - Concrete Box Culverts w/ Headwalls and Wingwalls
  - Pipes (Section 603)
    - Sanitary Sewer
    - Storm Sewer
    - Water
    - Irrigation
    - Miscellaneous
  - Manholes (Section 604)
  - Inlets (Section 604)
  - Other: \_\_\_\_\_

- Major Structures - Overhead Signs (Section 614), Concrete Box Culverts, Bridges - and all other structures assigned a structure number
  - Structure Excavation limits (Section 206)
  - Concrete Box Culverts (Section 603) w/ Headwalls and Wingwalls (Section 601)
  - Piling locations and cut off elevations (Section 502)
  - Caisson locations and elevations (Section 503)
  - Footing locations, alignment, and elevations
  - Abutment/Pier locations, alignment, and elevations
  - Wingwall skew angles/offsets
  - Structural concrete form locations
  - Substructure As-constructed survey required for Bridges (Subsection 601 .12) and Overhead signs (S-614-50)
  - Bridge expansion joint(s) alignment and grade (longitudinal and transverse)
  - Deck grades at Girder 10th or "n" th point locations and elevations
  - Slope and Ditch Paving (Section 507)
  - Other: \_\_\_\_\_

- Fencing (Section 607)
  - Temporary
  - Permanent
  - Sound Barrier
  - Other: \_\_\_\_\_

- Delineators (Section 612)
  - Temporary
  - Permanent

- Lighting (Section 613) and Traffic Control Devices (Permanent) (Section 614)
  - Signal pole locations and elevations
  - Light pole locations and elevations
  - Sign locations
  - Field verify sign post locations, elevations, and lengths before fabrication.
  - Other: \_\_\_\_\_

- Pavement Marking (Section 627)
  - Striping (Temp)
  - Striping (Perm)
  - Symbols
  - Other: \_\_\_\_\_
- Temporary Lighting and Construction Traffic Control Devices (Section 630)
  - Signal pole locations and elevations (Temp)
  - Light pole locations and elevations (Temp)
  - Sign Locations (Temp)
  - Other: \_\_\_\_\_
- Easements (Temp Staking by P.L.S. Only)
- Right of Way (Temp Staking by P.L.S. Only)

**WORK PERFORMED BY THE CONTRACTOR'S SURVEYOR UNDER SECTION 629:**

- Monumentation (Section 629)
  - Control
  - Right of Way
  - Land corners, Aliquot corners
  - Easements
  - Reference the specified existing monuments: \*\* \_\_\_\_\_
  - Replace the specified existing monuments: \*\* \_\_\_\_\_
  - Locate monuments. It is estimated \_\_\_\_\_ hours are required.

NOTE: All 629 items shall include adequate research, calculations, and evaluations of evidence for monuments to be set.

\*\* A Tabulation of Survey Monuments may be provided on the plans.

**GENERAL NOTES:**

- Unless indicated otherwise on this Survey Tabulation Sheet, all survey work and staking intervals shall be done in accordance with the latest edition of the CDOT Survey Manual.
- Adequate information for establishing lines, grades, and locations for all work items have been specified on the plans. Any additional information required to stake the item or element shall be generated by the Contractor's surveyor.
- The Contractor's surveyor shall provide an estimate of the man-hours necessary to complete the work items indicated on this sheet. A copy of this sheet, with the estimated man-hours written on the blank line to the left of the specified items, shall be submitted with the Survey Schedule to the Engineer 10 days prior to the Presurvey Conference - Construction Survey.
- Stakes and Monuments which are damaged or destroyed by the progress of construction shall be replaced by the Contractor at no additional cost to the Department.
- The Contractor shall furnish an As Staked earthwork quantity to the Engineer prior to completion of twenty percent (20%) of the planned earthwork in any phase as per the CDOT Survey Manual. A printed copy of the As Staked earthwork data and a computer disk in the specified format shall be submitted to the Engineer. The Contractor shall field verify original ground cross sections at a maximum 500 feet intervals.
- Prior to beginning work on any subsequent operation, such as placing base course or paving, the Contractor shall certify in writing to the Engineer that the final grade is within specified tolerance.
- The Contractor's surveyor shall perform all field surveying and calculations necessary to tie plan grades into field grades.
- The Contractor shall coordinate construction staking on the project with any utility work.
- Fieldbooks shall contain daily records of points set and or measurements observed. The information recorded shall contain: date, crew members' names, point no., description, staking information, and sketches. If the survey information is collected electronically, information recorded shall be provided to the Project Engineer in a hard copy format that is intuitive, clear and related to the supplemental information recorded in the field books. All linear surveys, such as slope stakes and blue tops, shall have the station and offset information related to the measured information. Non-linear surveys such as structures staking shall have sketches relating electronic information, such as point numbers, to the sketch.
- The Contractor's surveyor shall submit the following fieldbooks to the Engineer:
  - Horizontal Control (Primary & Secondary)
  - Vertical Control (i.e. Benchmarks)
  - Property Pin Ties
  - Horizontal Alignment
  - Grading
  - Slope Staking
  - Minor Structures
  - Major Structures
  - One fieldbook for each work category shown on this sheet
  - Other Fieldbook(s): Any Notebook Generated



Print Date: 11/23/2009	<b>Sheet Revisions</b>			<b>Colorado Department of Transportation</b>		<b>As Constructed</b>		<b>EDWARDS INTERCHANGE UPGRADE SURVEY TABULATION SHEET</b>		<b>Project No./Code</b>			
Drawing File Name: 06193SURVEY01.dgn	Date:	Comments:	Init.	714 Grand Avenue, P.O. Box 298 Eagle, CO 81631 Phone: 970-328-6385 FAX: 970-328-2368 <b>Region 3</b>		No Revisions: <u>6-6-2011</u> Revised: Void:		Designer: <u>MKS</u> Detailer: <u>TBS</u> Sheet Subset: <u>SURVEY</u>		Structure Numbers Subst Sheets: <u>SU-01 of 1</u>		ES3 0702-297 17303 Sheet Number	
Horiz. Scale: N/A													
Unit Information	Unit Leader Initials												
				<b>MLM</b>									



## Legend for Symbols Used on Borehole Logs

### Sample Types

Modified California Sampler. The symbol 16/12 indicates that 16 blows from a 140 pound hammer falling 30 inches was used to drive 2-inch I.D. sampler 12 inches.

Bulk sample was obtained from auger cuttings at the depths indicated.

### Other Symbols

Indicates practical drill rig refusal.

### Soil Lithology

Asphalt.

Fill with Silt as major soil, sandy, clayey, slightly moist to moist, medium stiff to very stiff, brown, dark brown, red-brown (ML).

Fill with Clay as major soil, silty to sandy, gravelly, slightly moist to moist, stiff to very stiff, green, brown, dark brown, gray, red (CL).

Fill with Sand as major soil, silty, gravelly, slightly moist, loose to medium dense, gray, red-brown (SM, SC, SC-SM).

Fill with Gravel as major soil, sandy, cobbles, small boulders, slightly moist, very dense, brown, gray (GM).

CLAY, silty to gravelly, slightly moist to moist, medium stiff to very stiff, brown, dark brown, red-brown (CL).

SILT, sandy, gravelly, slightly clayey, occasional cobbles, slightly moist to moist, medium stiff to very stiff, brown, dark brown, red-brown, gray (ML).

SAND, silty to gravelly, occasional cobbles and boulders, slightly moist to wet, loose to very dense, brown, dark brown, red-brown, yellow-brown (SM).

GRAVEL, silty to sandy, cobbles and boulders, slightly moist to moist, medium dense to very dense, brown, dark brown, red-brown, gray (GM).

GRAVEL, slightly silty to sandy, cobbles and boulders, slightly moist to wet, medium dense to very dense, brown, red-brown, red, brown-gray (GP, GW, GP-GM, GW-GM).

### Lab Test Abbreviations

MC-Moisture Content  
 DD-Dry Density  
 #200-Percent Passing #200 Sieve  
 LL-Liquid Limit  
 PL-Plastic Limit  
 PI-Plastic Index  
 S-Sulfate Content  
 S/C-Swell/Consolidation  
 UCCS-Unconfined Compressive Strength

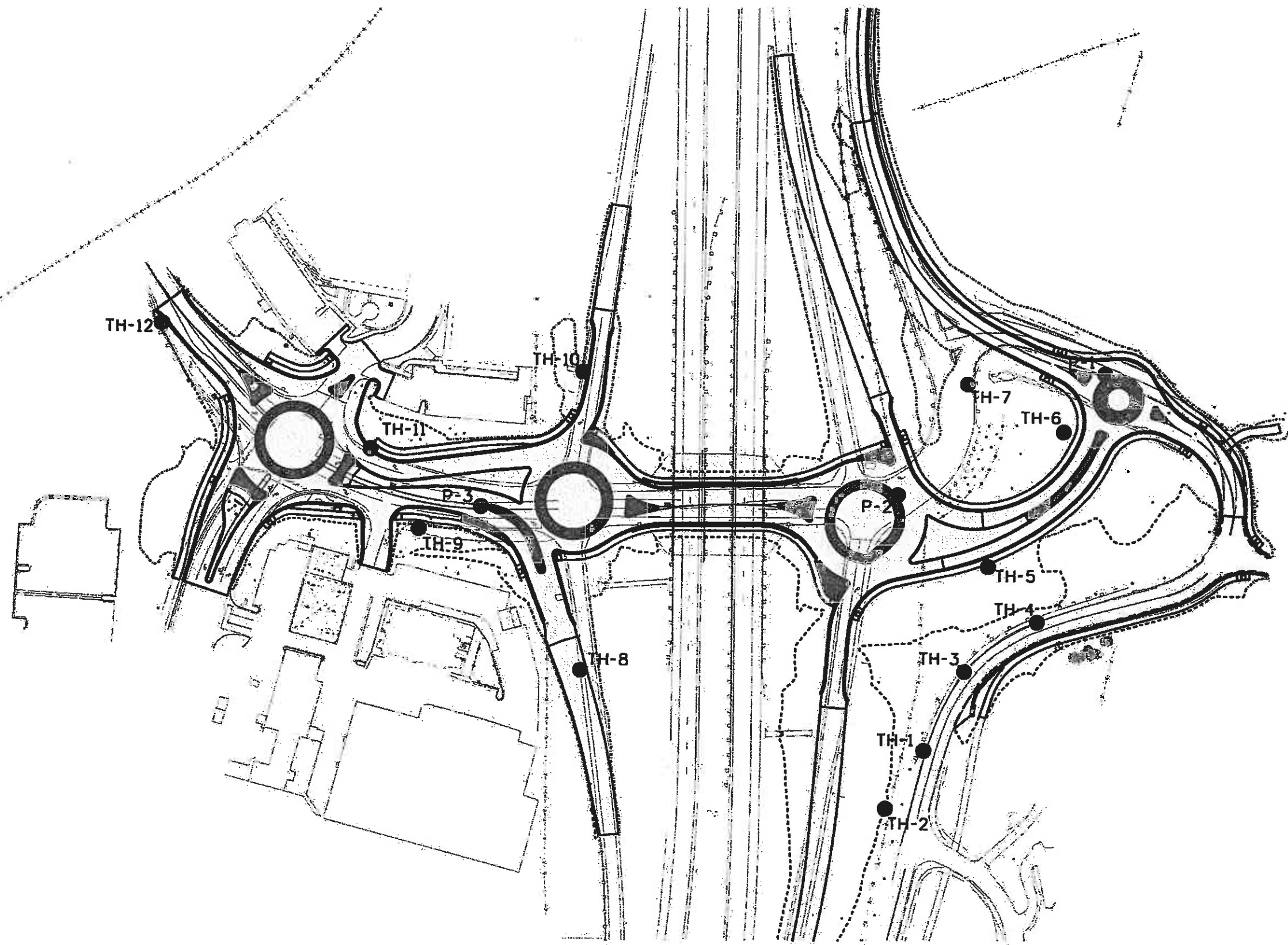
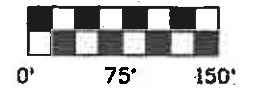
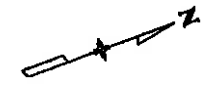
Figure A-1



Print Date: 11/5/2009	<b>Sheet Revisions</b>			Colorado Department of Transportation  714 Grand Avenue, P.O. Box 298 Eagle, CO 81631 Phone: 970-328-6385 FAX: 970-328-2368 <b>Region 3</b>	<b>As Constructed</b>	<b>EDWARDS INTERCHANGE UPGRADE ENGINEERING GEOLOGY</b>		<b>Project No./Code</b>
Drawing File Name: 06193GEDL01.dgn	Date:	Comments:	Init.		No Revisions: 0-6-2011			ES3 0702-297
Horiz. Scale: 1:40	Vert. Scale: As Noted	(R-X)		Revised:	Designer: YEH	Structure Numbers:		17303
Unit Information	Unit Leader Initials			Void:	Detailer: KMH	Sheet Subset: GEOLOGY	Subset Sheets: EG-01 of 5	Sheet Number 16

811

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EAGLE COUNTY

Print Date: 11/5/2009	
Drawing File Name: 06193GEO.L02.dgn	
Horiz. Scale: 1"=50'      Vert. Scale: As Noted	
Unit Information      Unit Leader Initials	

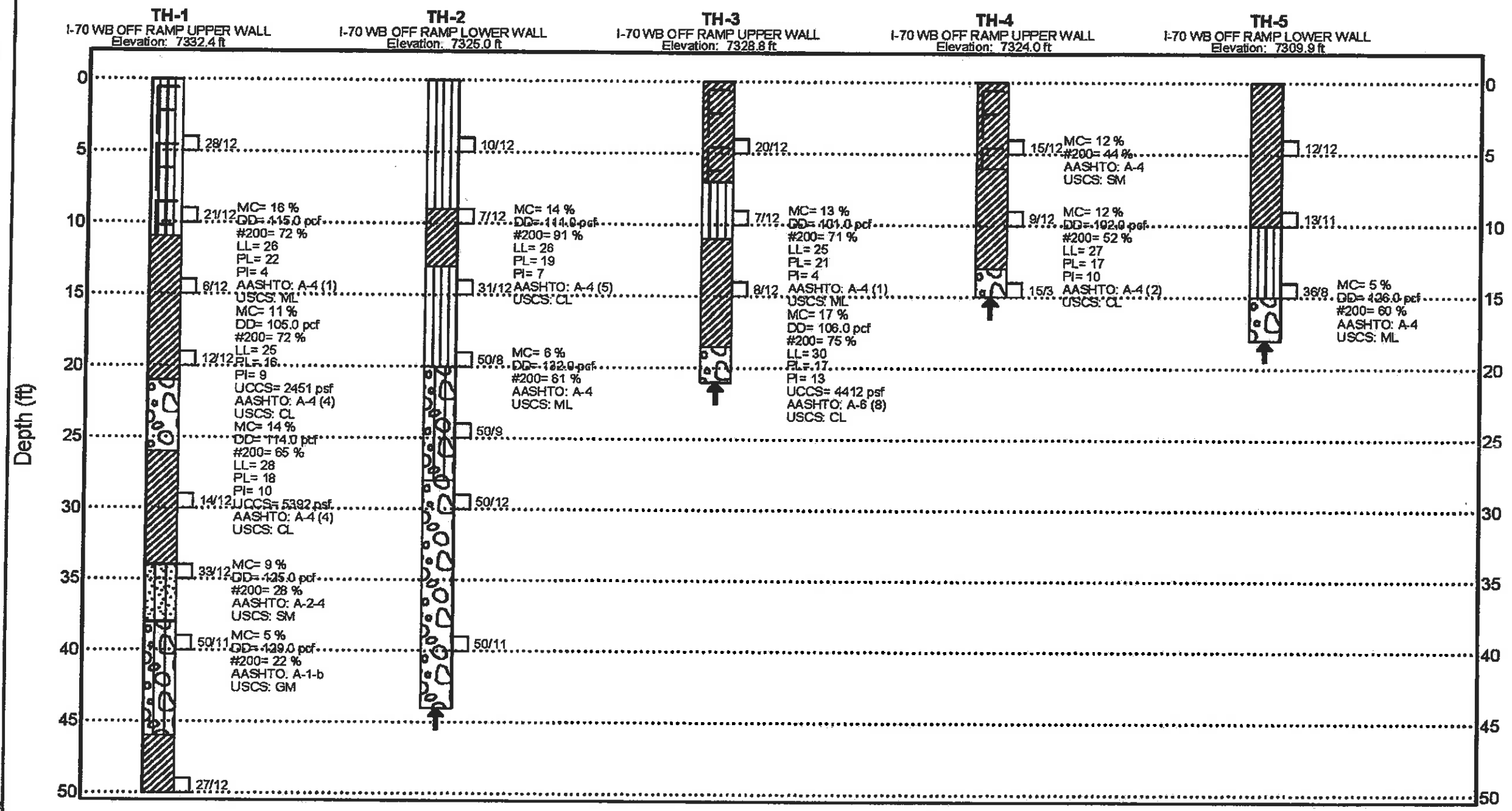
Sheet Revisions		
Date:	Comments	Init.

Colorado Department of Transportation  
 714 Grand Avenue, P.O. Box 298  
 Eagle, CO 81631  
 Phone: 970-328-6385 FAX: 970-328-2368  
 Region 3      MLM

As Constructed
No Revisions: 6-10-2011
Revised:
Void:

EDWARDS INTERCHANGE UPGRADE ENGINEERING GEOLOGY			
Designer:	YEH	Structure	X-XX-XX
Detailer:	KMH	Numbers	X-XX-XX
Sheet Subset:	GEOLOGY	Subset Sheets:	EG-02 of 5

Project No./Code
ES3 0702-297
17303
Sheet Number 17



**YEH AND ASSOCIATES, INC.**  
GEOTECHNICAL ENGINEERING CONSULTANTS

I-70G Edwards Entrance

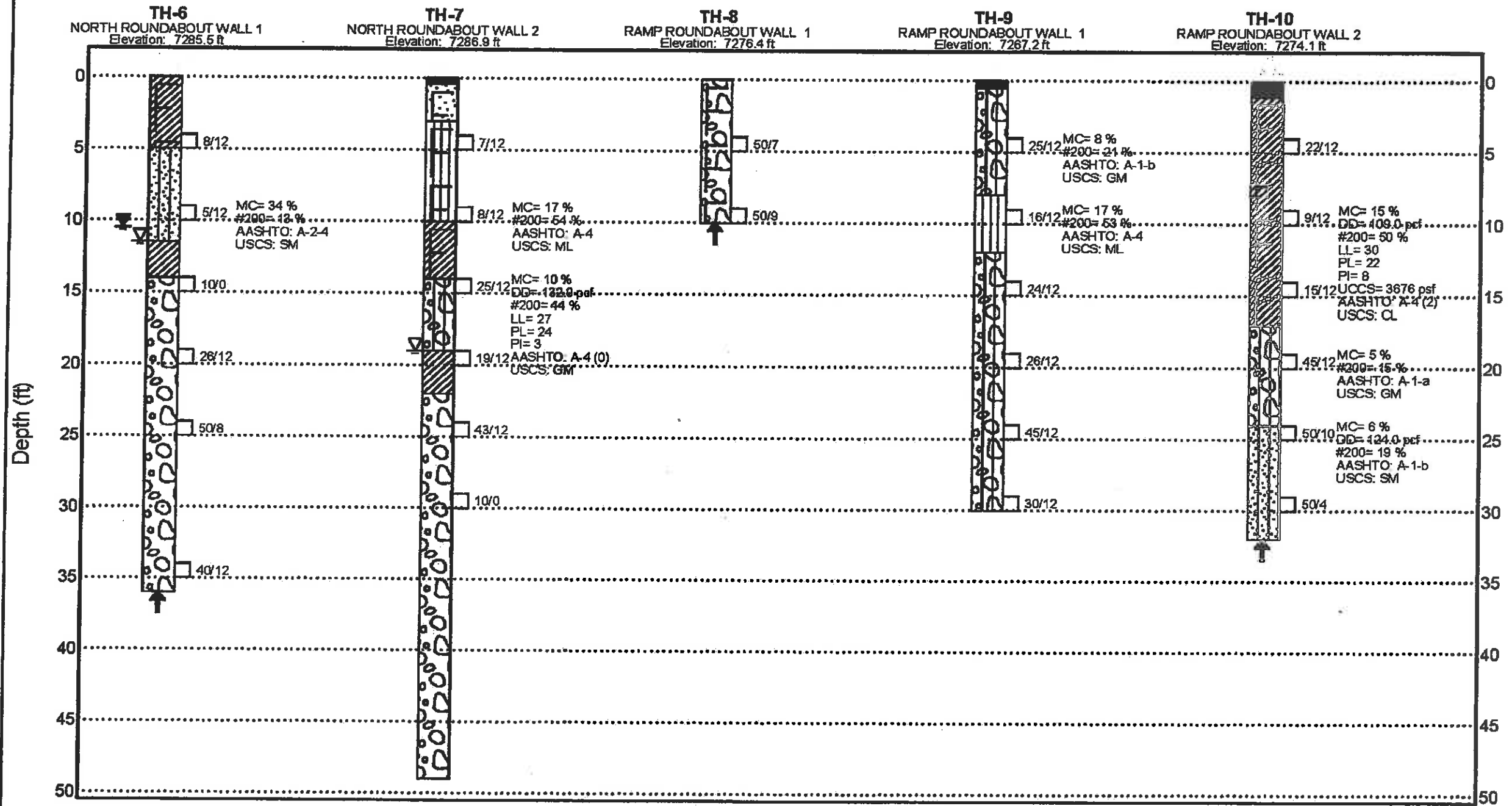
Project Number: 26-201

Figure A-2

Print Date: 11/5/2009	<b>Sheet Revisions</b>			Colorado Department of Transportation 714 Grand Avenue, P.O. Box 298 Eagle, CO 81631 Phone: 970-328-6385 FAX: 970-328-2368 Region 3	As Constructed	EDWARDS INTERCHANGE UPGRADE ENGINEERING GEOLOGY		Project No./Code
Drawing File Name: 06193GEOLO3.dgn	Date:	Comments:	Init.		No Revisions: 6-6-2011			ES3 0702-297
Horiz. Scale: 1:40				MLM	Revised:	Designer: YEH	Structure Numbers	17303
Unit Information					Void:	Detailer: KMH	Subset Sheets: EG-03 of 5	Sheet Number 18

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**YEH AND ASSOCIATES, INC.**  
GEOTECHNICAL ENGINEERING CONSULTANTS

I-70G Edwards Entrance

Project Number: 26-201

Figure A-3

Print Date: 11/5/2009  
Drawing File Name: 06193GEOLO4.dgn  
Horiz. Scale: 1:40  
Unit Information

Sheet Revisions		
Date:	Comments	Init.

Colorado Department of Transportation  
714 Grand Avenue, P.O. Box 298  
Eagle, CO 81631  
Phone: 970-328-6385 FAX: 970-328-2368  
Region 3 MLM

As Constructed  
No Revisions: 6-6-2011  
Revised:  
Void:

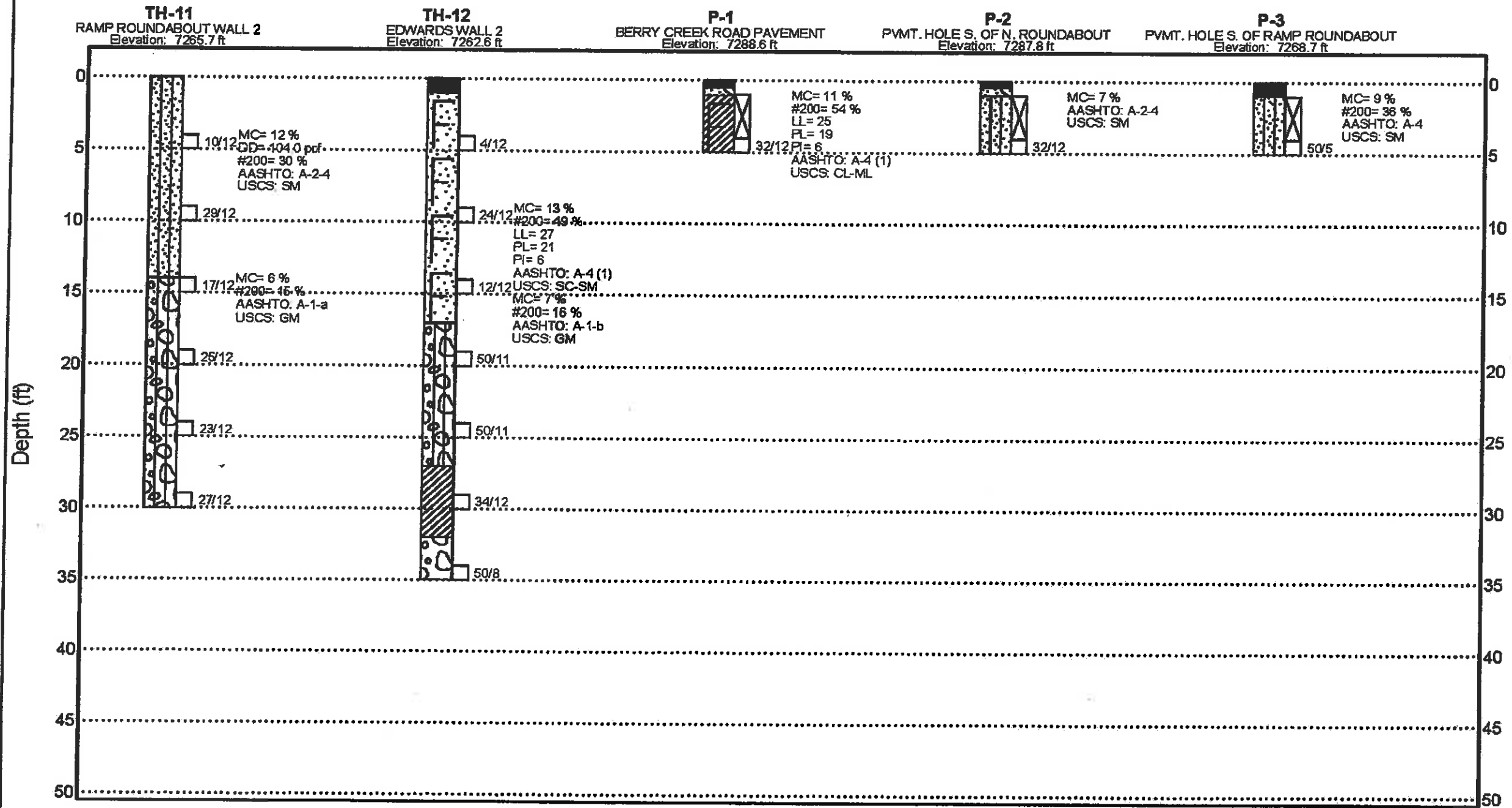
**EDWARDS INTERCHANGE UPGRADE  
ENGINEERING GEOLOGY**  
Designer: YEH  
Detailer: KMH  
Sheet Subset: GEOLOGY

Project No./Code  
ES3 0702-297  
17303  
Sheet Number 19



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EAGLE COUNTY



**YEH AND ASSOCIATES, INC.**  
GEOTECHNICAL ENGINEERING CONSULTANTS

I-70G Edwards Entrance

Project Number: 26-201

Figure A-4

Print Date: 11/5/2009

Drawing File Name: 06193GEDL05.dgn

Horiz. Scale: 1:40

Vert. Scale: As Noted

Unit Information

Unit Leader Initials

(R-X)  
000

**Sheet Revisions**

Date:	Comments	Init.

Colorado Department of Transportation



714 Grand Avenue, P.O. Box 298  
Eagle, CO 81631  
Phone: 970-328-6385 FAX: 970-328-2368

Region 3

MLM

As Constructed

No Revisions: 6-6-2011

Revised:

Void:

**EDWARDS INTERCHANGE UPGRADE  
ENGINEERING GEOLOGY**

Designer: YEH  
Detailer: KMH

Sheet Subset: GEOLOGY

Structure Numbers

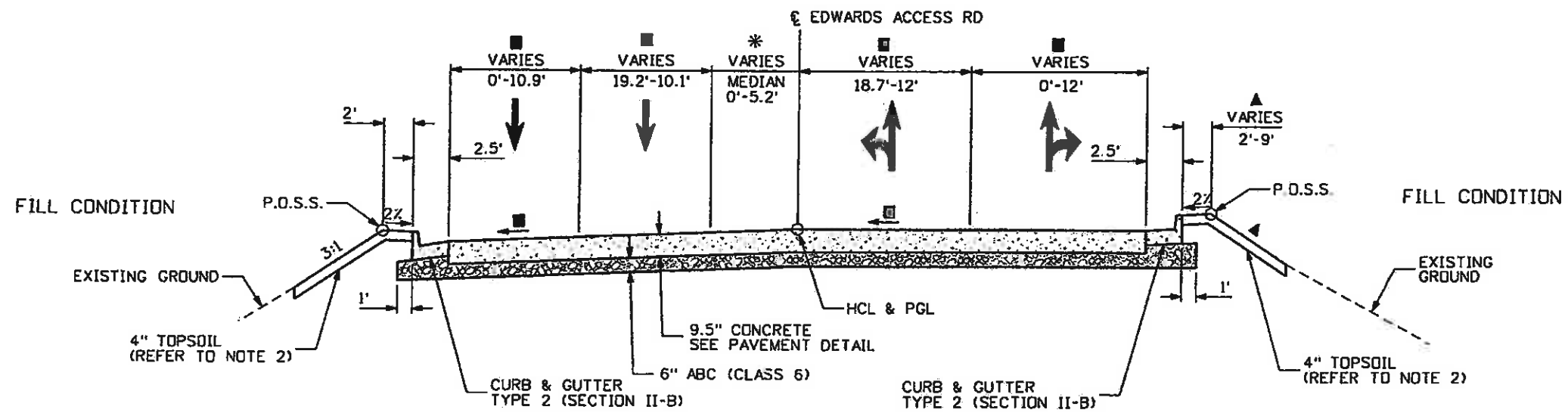
Subset Sheets: EG-05 of 5

Project No./Code

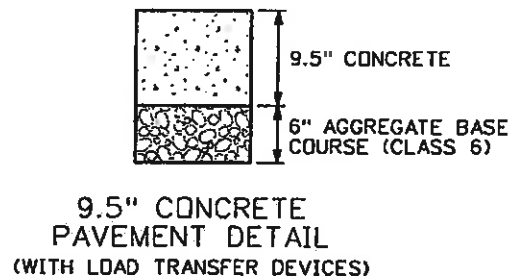
ES3 0702-297

17303

Sheet Number 20



EDWARDS ACCESS RD  
TYPICAL SECTION  
STA. 1+40.00 TO STA. 2+76.39



**NOTES:**

- 1.) BREAK POINTS ON SLOPES AND IN BOTTOMS OF DITCHES SHALL BE ROUNDED DURING CONSTRUCTION FOR A PLEASING APPEARANCE.
- 2.) THE TOPSOIL SHALL BE PLACED AT A MINIMUM DEPTH OF 4 INCHES.
- 3.) CURB AND GUTTER SECTIONS SHALL BE CONSTRUCTED IN NORMAL CROWN AND SUPERELEVATED SECTIONS PER CDOT DETAILS FOR SPILL AND CATCH CURB.

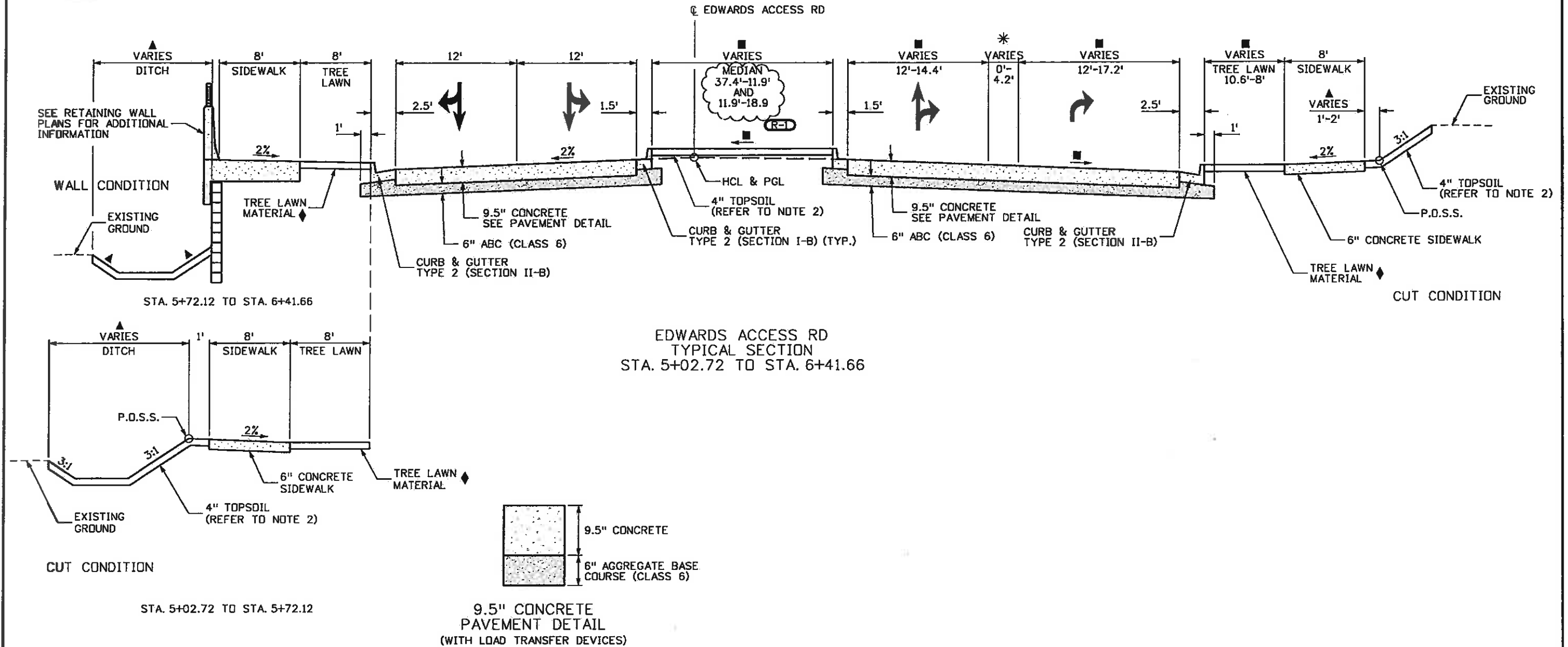
- ▲ REFER TO GRADING AND CROSS SECTION PLANS FOR ADDITIONAL INFORMATION
- 2.0% MINIMUM - REFER TO GRADING AND CROSS SECTION PLANS FOR ADDITIONAL INFORMATION
- REFER TO ROUNDABOUT LAYOUT PLANS, STRIPING PLANS, AND ROADWAY PROFILES FOR ADDITIONAL INFORMATION
- \* PAINTED MEDIAN
- ◆ REFER TO ROADWAY PLANS FOR ADDITIONAL INFORMATION



Print Date: 11/4/2009	<b>Sheet Revisions</b>			Colorado Department of Transportation 714 Grand Avenue, P.O. Box 298 Eagle, CO 81631 Phone: 970-328-6385 FAX: 970-328-2368 Region 3 MLM	As Constructed	EDWARDS INTERCHANGE UPGRADE TYPICAL SECTIONS EDWARDS ACCESS RD		Project No./Code
Drawing File Name: 06193TYP01.dgn	Date:	Comments:	Init.:		No Revisions: 6-8-2011	Designer: DCS	Structure Numbers:	ES 3307027027-29303
Horiz. Scale: 1"=10'	Vert. Scale: As Noted				Revised:	Detailer: TBS		CD 6-2863-50
Unit Information	Unit Leader Initials				Void:	Sheet Subset: TYPICALS	Subset Sheets: TY-01 of 22	Sheet Number 21



Know what's below. Call before you dig.



EDWARDS ACCESS RD  
TYPICAL SECTION  
STA. 5+02.72 TO STA. 6+41.66

9.5" CONCRETE  
PAVEMENT DETAIL  
(WITH LOAD TRANSFER DEVICES)

NOTES:

- 1.) BREAK POINTS ON SLOPES AND IN BOTTOMS OF DITCHES SHALL BE ROUNDED DURING CONSTRUCTION FOR A PLEASING APPEARANCE.
- 2.) THE TOPSOIL SHALL BE PLACED AT A MINIMUM DEPTH OF 4 INCHES.
- 3.) CURB AND GUTTER SECTIONS SHALL BE CONSTRUCTED IN NORMAL CROWN AND SUPERELEVATED SECTIONS PER CDDT DETAILS FOR SPILL AND CATCH CURB.

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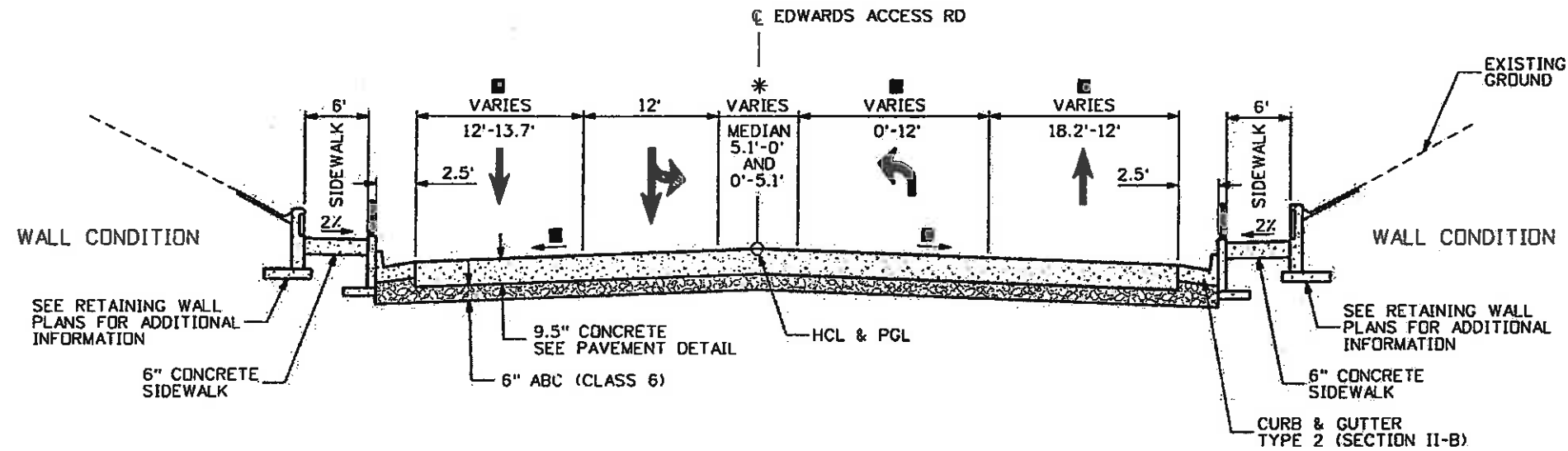


Print Date: 5/11/2010	<b>Sheet Revisions</b>			Colorado Department of Transportation 714 Grand Avenue, P.O. Box 298 Eagle, CO 81631 Phone: 970-328-6385 FAX: 970-328-2368 Region 3 MLM	As Constructed No Revisions: Revised: 6-6-2011 Void:	EDWARDS INTERCHANGE UPGRADE TYPICAL SECTIONS EDWARDS ACCESS RD		Project No./Code ES3 0702-297/17303
Drawing File Name: 06193TYP01.dgn	Date: 5/10/10	Comments: REVISED SB ENTRANCE TO MRR ROUNDABOUT	Init.: DKH			Designer: DCS	Structure:	C06-256-50
Horiz. Scale: 1:10	Vert. Scale: As Noted				Detailer: TBS	Numbers:	Sheet Number 22X	
Unit Information	Unit Leader Initials				Sheet Subset: TYPICALS	Subset Sheets: TY-02 of 22		

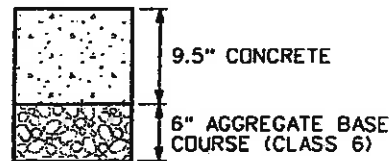




Know what's below.  
Call before you dig.



EDWARDS ACCESS RD  
TYPICAL SECTION  
STA. 9+06.19 TO STA. 10+67.85



9.5" CONCRETE  
PAVEMENT DETAIL  
(WITH LOAD TRANSFER DEVICES)

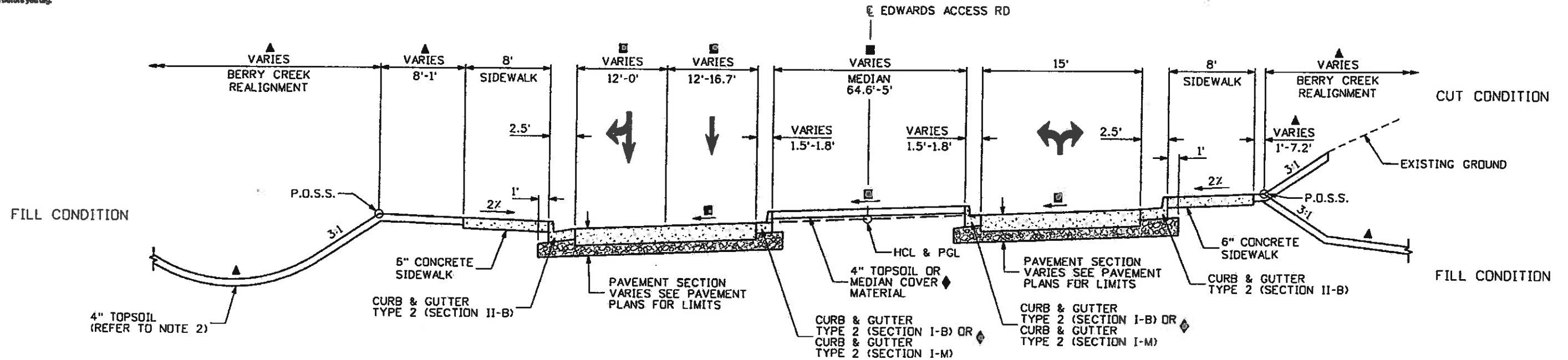
NOTES:

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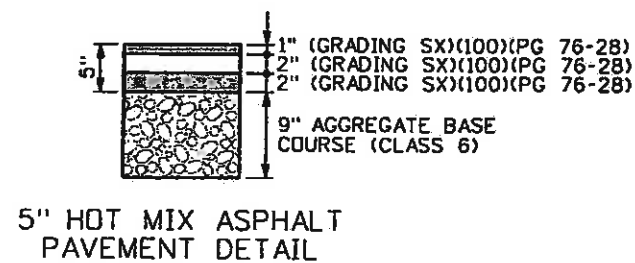
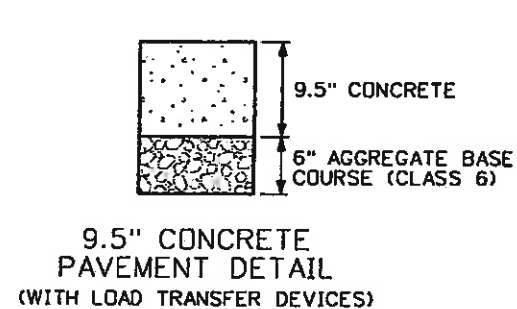
- ▲ REFER TO GRADING AND CROSS SECTION PLANS FOR ADDITIONAL INFORMATION
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Print Date: 11/4/2009	Sheet Revisions			Colorado Department of Transportation 714 Grand Avenue, P.O. Box 298 Eagle, CO 81631 Phone: 970-328-6385 FAX: 970-328-2368 Region 3 MLM	As Constructed	EDWARDS INTERCHANGE UPGRADE TYPICAL SECTIONS EDWARDS ACCESS RD		Project No./Code
Drawing File Name: 06193TYPOL.dgn	Date:	Comments:	Init.		No Revisions: 6-6-2011			ES890702-007297303
Horiz. Scale: 1:10	Vert. Scale: As Noted				Revised:	Designer: DCS	Structure Numbers	CD67256-50
Unit Information	Unit Leader Initials				Void:	Detailer: TBS	Subset Sheets: TY-03 of 22	Sheet Number 23



EDWARDS ACCESS RD  
TYPICAL SECTION  
STA. 12+72.34 TO STA. 15+77.08



NOTES:

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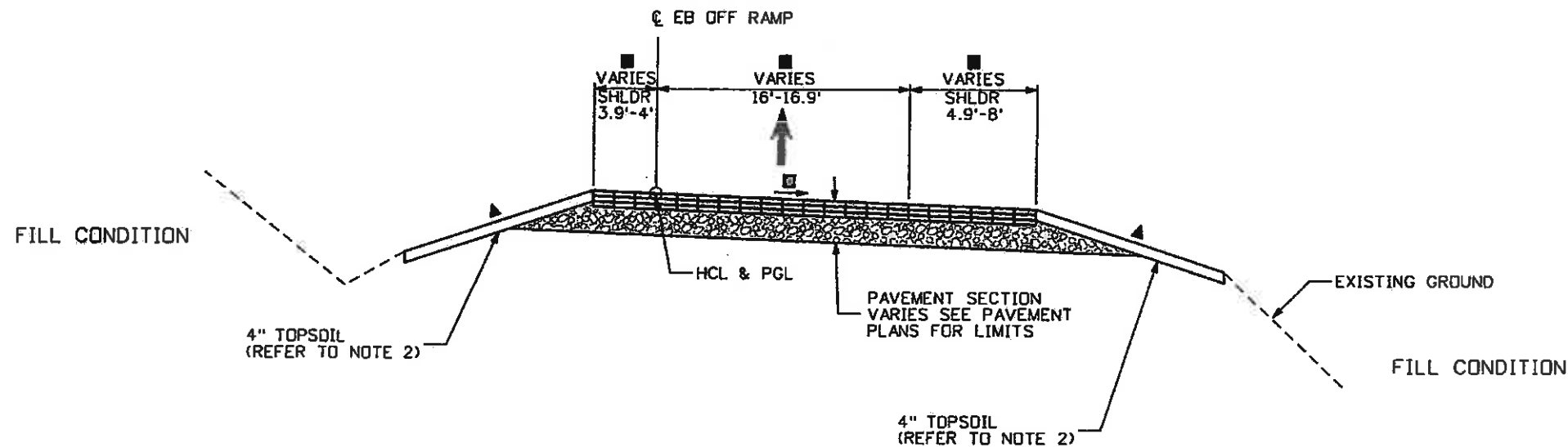
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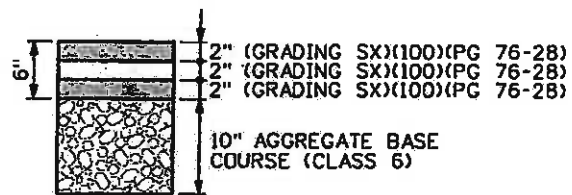
Print Date: 11/4/2009	Sheet Revisions			Colorado Department of Transportation 714 Grand Avenue, P.O. Box 298 Eagle, CO 81631 Phone: 970-328-6385 FAX: 970-328-2368 Region 3	As Constructed No Revisions: 6-6-2011	EDWARDS INTERCHANGE UPGRADE TYPICAL SECTIONS EDWARDS ACCESS RD		Project No./Code
Drawing File Name: 06193TYP01.dgn	Date:	Comments	Init.			Revised:	Designer: DCS	Structure Numbers
Horiz. Scale: 1:10	Vert. Scale: As Noted	Unit Information			Void:	Detailer: TBS	Sheet Subset: TYPICALS	Subst Sheets: TY-04 of 22
							Eagle County	
							Sheet Number 24	



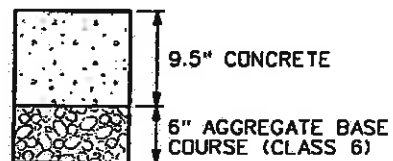
Know what's below.  
Call before you dig.



EB OFF RAMP  
TYPICAL SECTION  
STA. 300+33.00 TO STA. 301+90.56



6" HOT MIX ASPHALT  
PAVEMENT DETAIL



9.5" CONCRETE  
PAVEMENT DETAIL  
(WITH LOAD TRANSFER DEVICES)

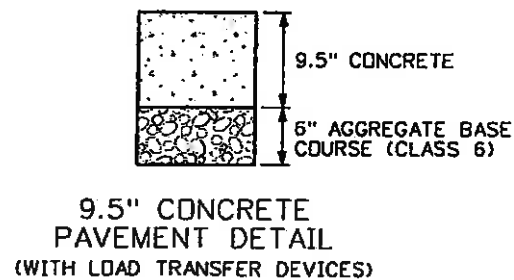
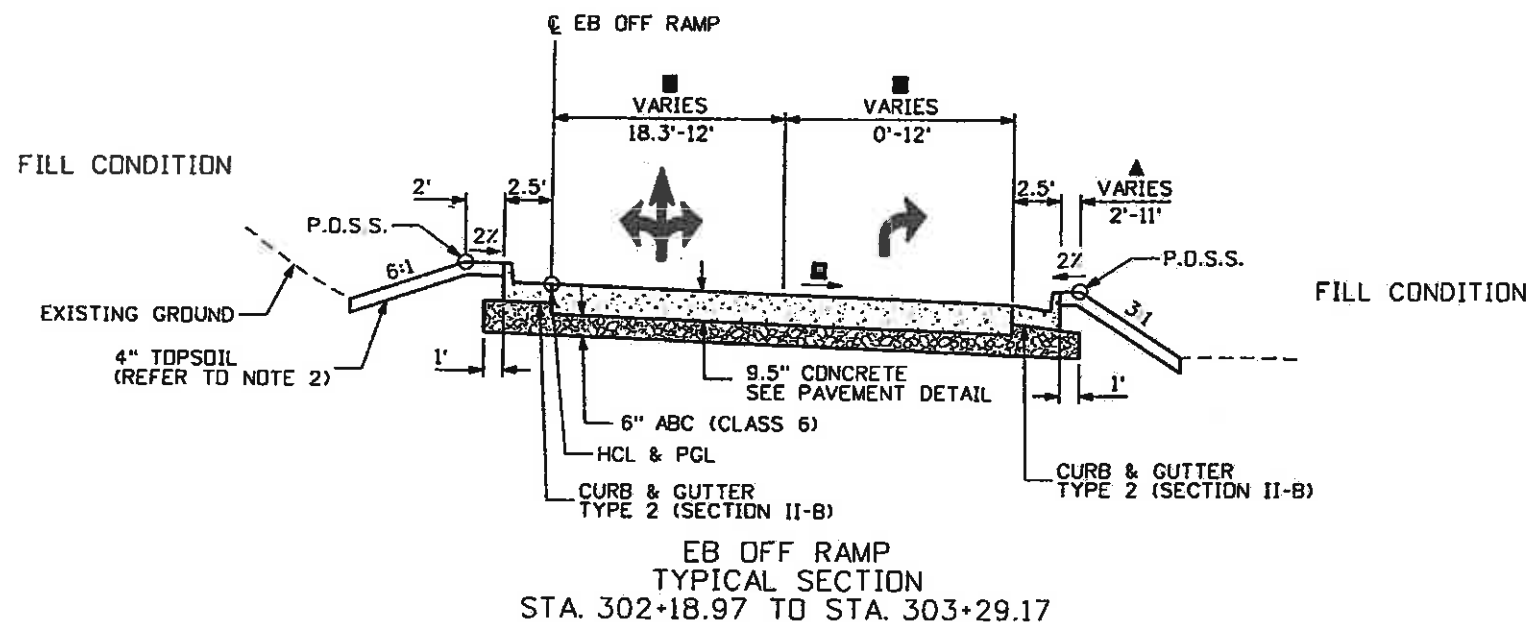
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Print Date: 11/4/2009	Sheet Revisions			Colorado Department of Transportation	As Constructed	EDWARDS INTERCHANGE UPGRADE		Project No./Code
Drawing File Name: 06193TYP01.dgn	Date:	Comments	Init.	 714 Grand Avenue, P.O. Box 298 Eagle, CO 81631 Phone: 970-328-6385 FAX: 970-328-2368 Region 3 MLM	No Revisions: 6-6-2011	TYPICAL SECTIONS		ES3E8702-292/27803
Horiz. Scale: 1:10	Vert. Scale: As Noted				Revised:	Designer: DCS	Structure Numbers	C067286-50
Unit Information	Unit Leader Initials				Void:	Detailer: TBS	Subset Sheets: TY-05 of 22	Sheet Number 25



**NOTES:**

- 1.) BREAK POINTS ON SLOPES AND IN BOTTOMS OF DITCHES SHALL BE ROUNDED DURING CONSTRUCTION FOR A PLEASING APPEARANCE.
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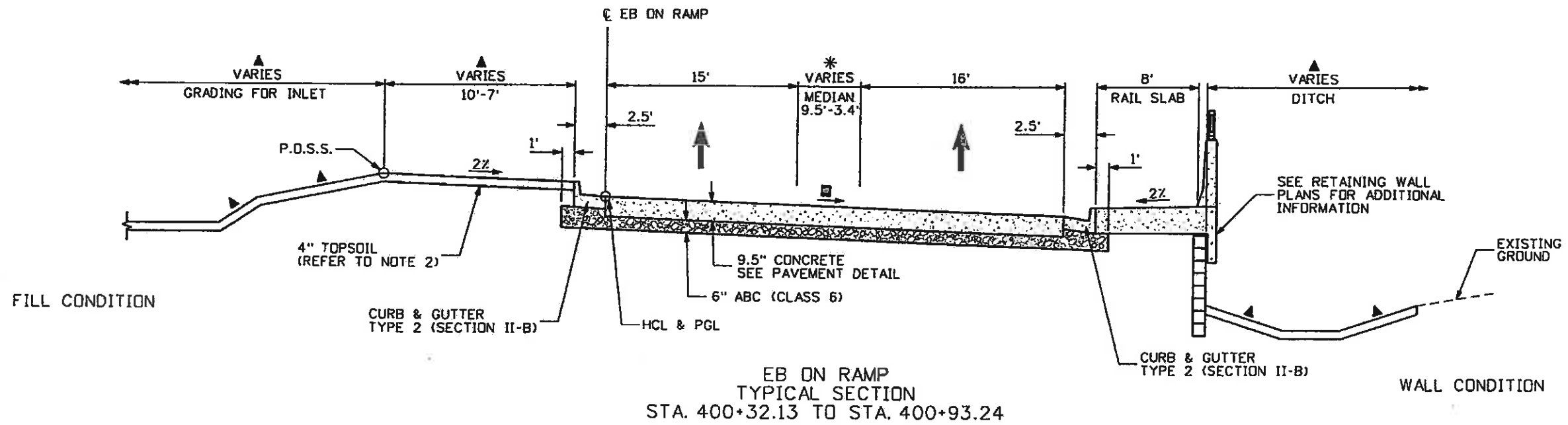
- ▲ REFER TO GRADING AND CROSS SECTION PLANS FOR ADDITIONAL INFORMATION
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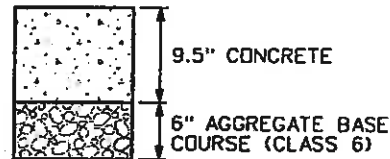
Print Date: 11/4/2009	<b>Sheet Revisions</b>			Colorado Department of Transportation	As Constructed	EDWARDS INTERCHANGE UPGRADE TYPICAL SECTIONS EB OFF RAMP		Project No./Code
Drawing File Name: 061931TYP01.dgn	Date:	Comments:	Init.		No Revisions: 6-6-2011			ES:07027027/29303
Horiz. Scale: 1:10	Vert. Scale: As Noted				Revised:	Designer: DCS	Structure Numbers	CD57296-50
Unit Information	Unit Leader Initials				Void:	Detailer: TBS		Sheet Number 26
				Region 3	MLM	Sheet Subset: TYPICALS	Subset Sheets: TY-06 of 22	



714 Grand Avenue, P.O. Box 298  
Eagle, CO 81631  
Phone: 970-328-6385 FAX: 970-328-2368



9.5" CONCRETE PAVEMENT DETAIL (WITH LOAD TRANSFER DEVICES)



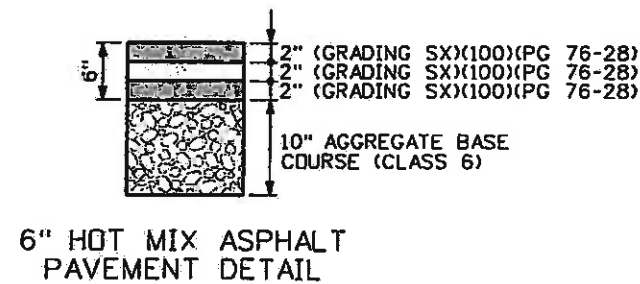
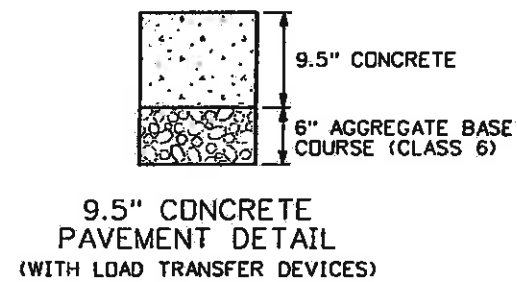
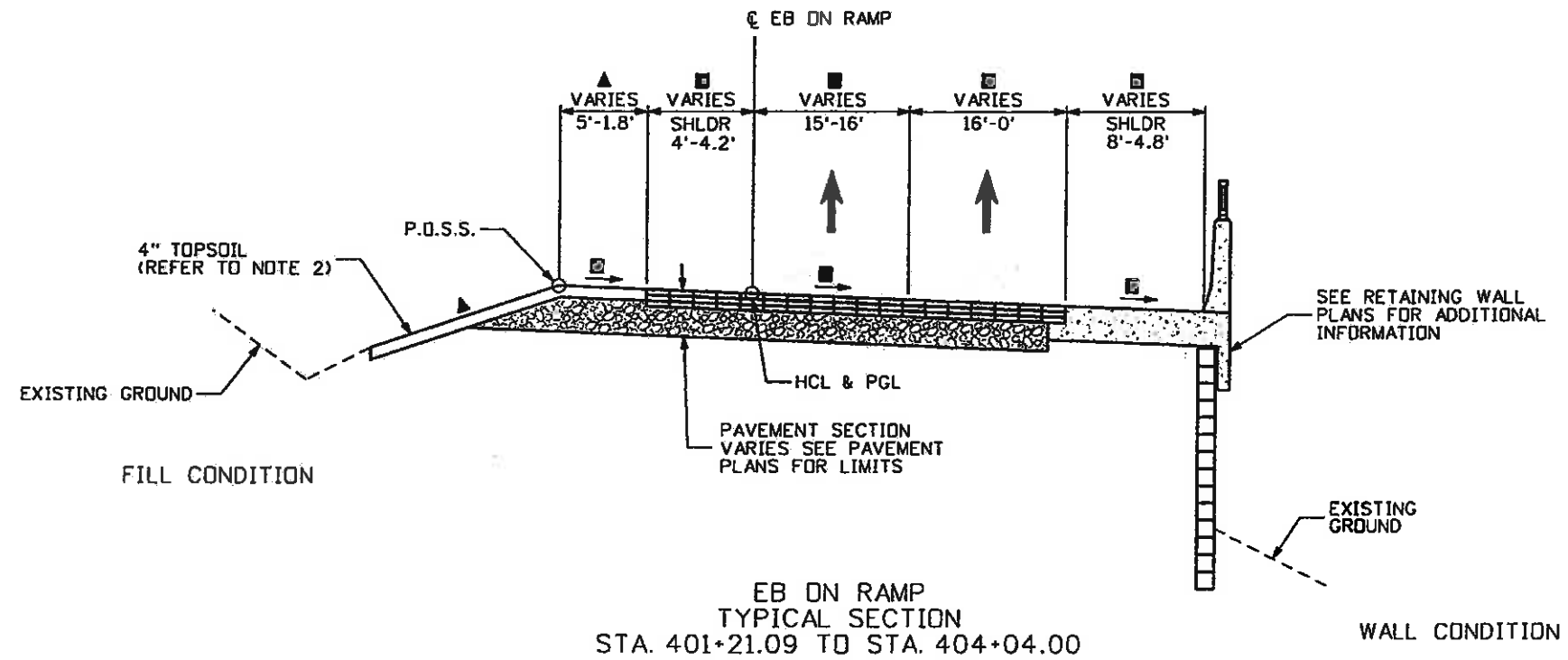
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Print Date: 11/4/2009	<b>Sheet Revisions</b>			Colorado Department of Transportation 714 Grand Avenue, P.O. Box 298 Eagle, CO 81631 Phone: 970-328-6385 FAX: 970-328-2368 Region 3 MLM	As Constructed	EDWARDS INTERCHANGE UPGRADE TYPICAL SECTIONS EB ON RAMP		Project No./Code
Drawing File Name: 06193TYP01.dgn	Date:	Comments:	Init.:		No Revisions: 6-6-2011	Designer: DCS	Structure Numbers:	ES3E6302-2207-22503
Horiz. Scale: 1:10	Vert. Scale: As Noted			Revised:	Detailer: TBS		CD67258-50	
Unit Information	Unit Leader Initials			Void:	Sheet Subset: TYPICALS	Subset Sheets: TY-07 of 22	Sheet Number 27	



**NOTES:**

- 1.) BREAK POINTS ON SLOPES AND IN BOTTOMS OF DITCHES SHALL BE ROUNDED DURING CONSTRUCTION FOR A PLEASING APPEARANCE.
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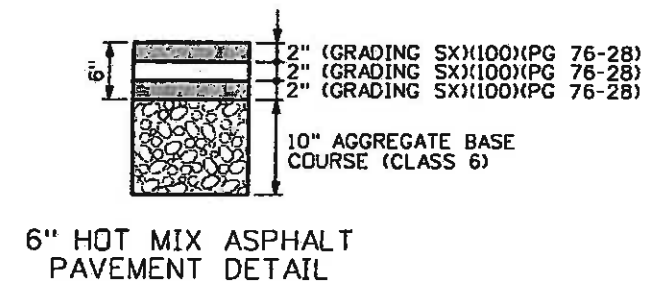
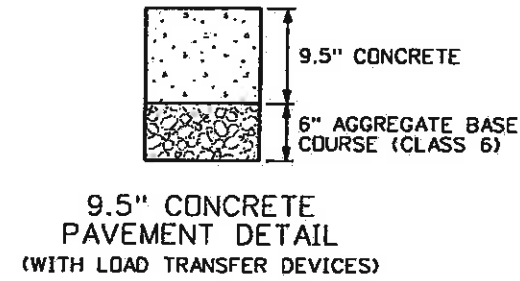
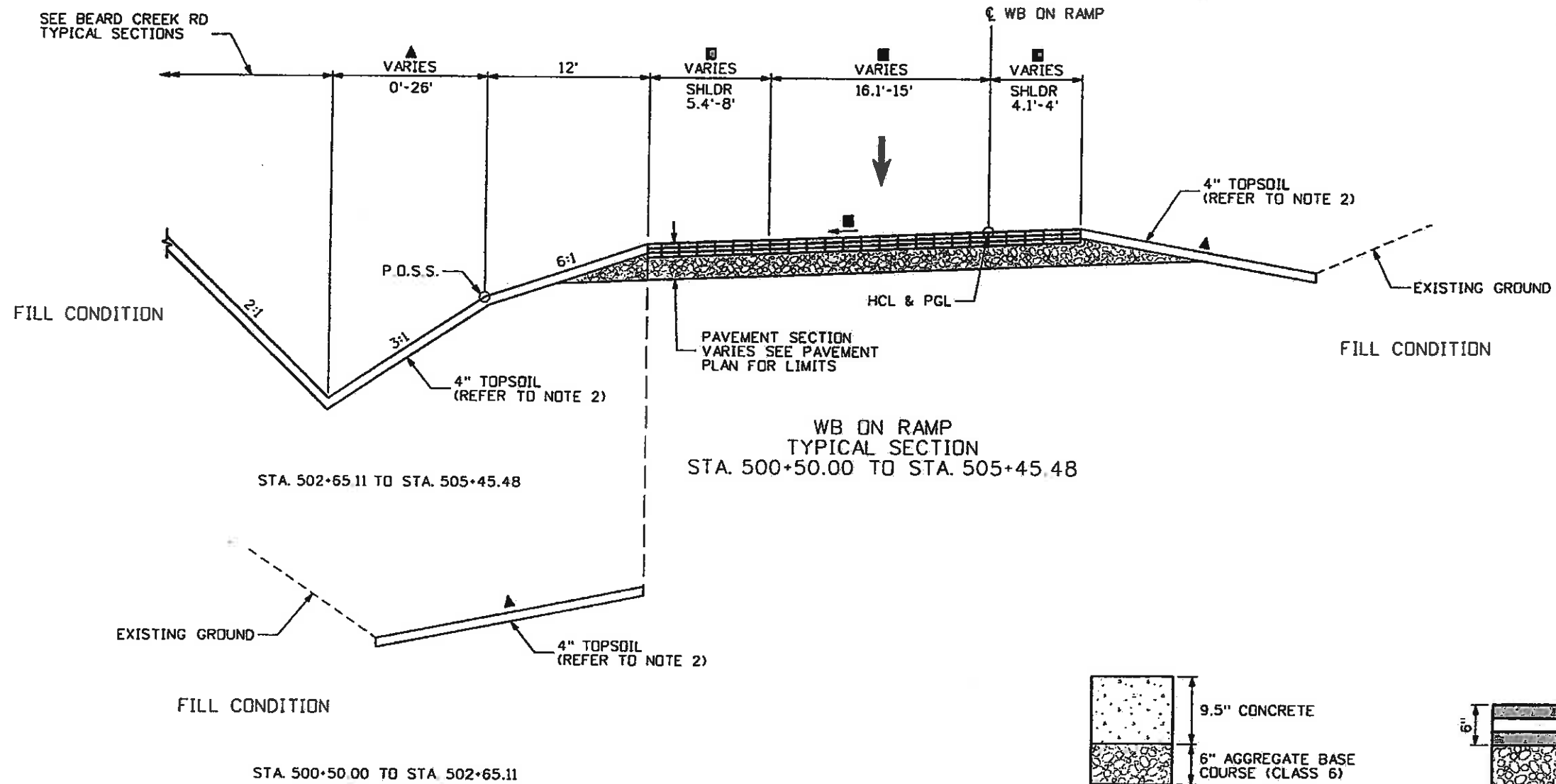
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Print Date: 11/4/2009	<b>Sheet Revisions</b>			Colorado Department of Transportation 714 Grand Avenue, P.D. Box 298 Eagle, CO 81631 Phone: 970-328-6385 FAX: 970-328-2368 Region 3 MLM	As Constructed	EDWARDS INTERCHANGE UPGRADE TYPICAL SECTIONS EB ON RAMP		Project No./Code
Drawing File Name: 06193TYP01.dgn	Date:	Comments:	Init.:		No Revisions: 6-6-2011	Designer: DCS	Structure Numbers	ES3 0302-0207-12303
Horiz. Scale: 1:10	Vert. Scale: As Noted				Revised:	Detailer: TBS		CO# 72813-50
Unit Information	Unit Leader Initials				Void:	Sheet Subset: TYPICALS	Subset Sheets: TY-08 of 22	Sheet Number 28



Know what's below.  
Call before you dig.



**NOTES:**

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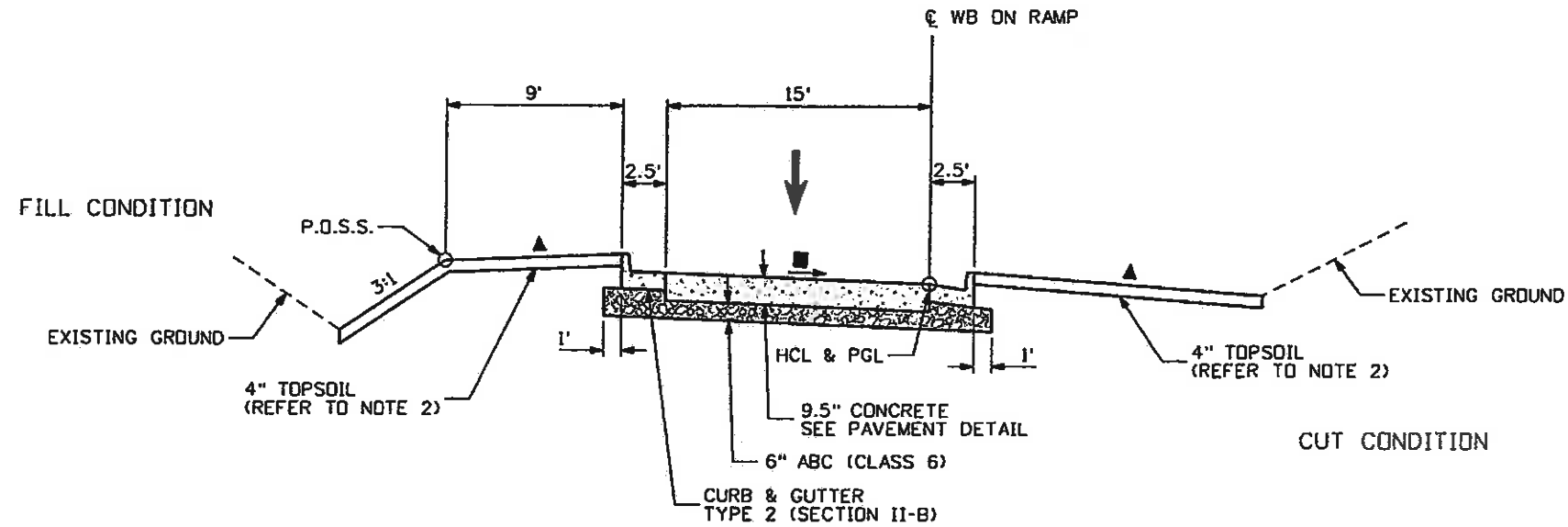
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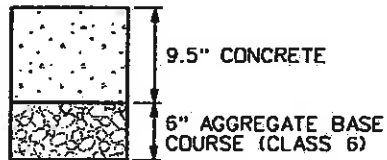
Print Date: 11/4/2009		Sheet Revisions		Colorado Department of Transportation		As Constructed		EDWARDS INTERCHANGE UPGRADE TYPICAL SECTIONS WB ON RAMP		Project No./Code	
Drawing File Name: 06193TYP01.dgn		Date:	Comments	Init.	714 Grand Avenue, P.O. Box 298 Eagle, CO 81631 Phone: 970-328-6385 FAX: 970-328-2368		No Revisions: 6-6-2011		Designer: DCS		ES3 133020202/17303
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Vert. Scale: As Noted		Unit Leader Initials		MLM		Void:		Detailer: TBS		Sheet Number 29	
								Sheet Subset: TYPICALS		Subset Sheets: TY-09 of 22	



Know what's below.  
Call before you dig.



WB ON RAMP  
TYPICAL SECTION  
STA. 505+72.61 TO STA. 505+94.14



9.5" CONCRETE  
PAVEMENT DETAIL  
(WITH LOAD TRANSFER DEVICES)

NOTES:

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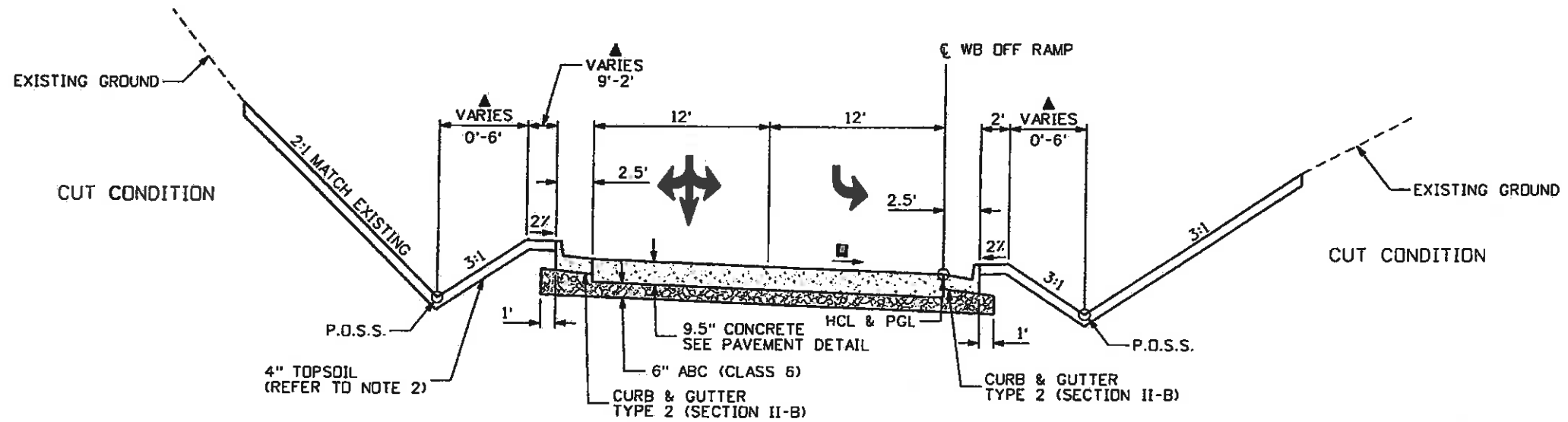


Print Date: 11/4/2009	Sheet Revisions			Colorado Department of Transportation	As Constructed	EDWARDS INTERCHANGE UPGRADE TYPICAL SECTIONS WB ON RAMP		Project No./Code
Drawing File Name: 06193TYP01.dgn	Date:	Comments	Init.	714 Grand Avenue, P.O. Box 298 Eagle, CO 81631 Phone: 970-328-6385 FAX: 970-328-2368 Region 3 MLM	No Revisions: 6-6-2011	Designer: DCS	Structure	ES3 103020792/12903
Horiz. Scale: 1:10	Vert. Scale: As Noted				Revised:	Detailer: TBS	Numbers	CD67-288-50
Unit Information	Unit Leader Initials				Void:	Sheet Subset: TYPICALS	Subset Sheets: TY-10 of 22	Sheet Number: 30

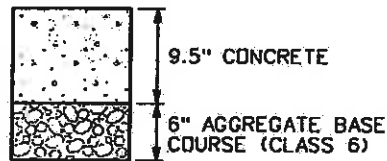




Know what's below.  
Call before you dig.



WB OFF RAMP  
TYPICAL SECTION  
STA. 600+49.74 TO STA. 601+43.37



9.5" CONCRETE  
PAVEMENT DETAIL  
(WITH LOAD TRANSFER DEVICES)

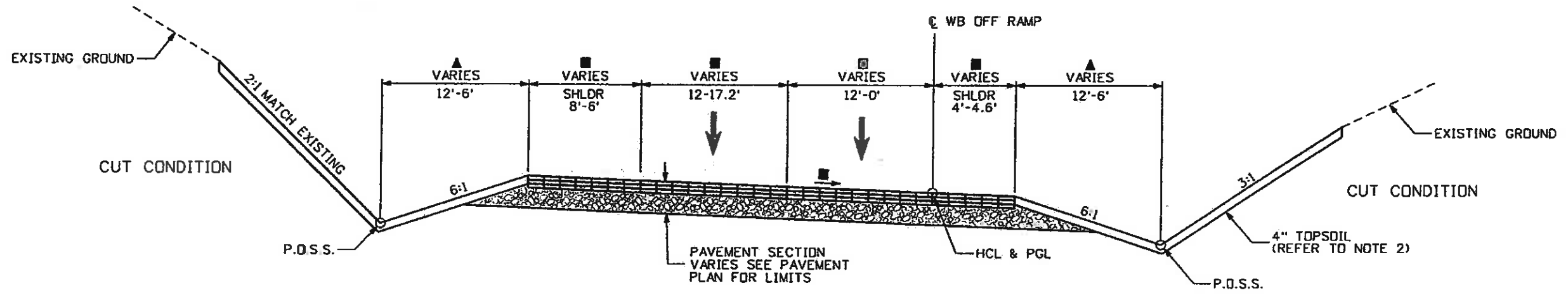
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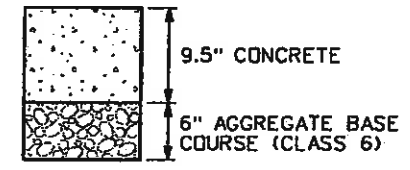
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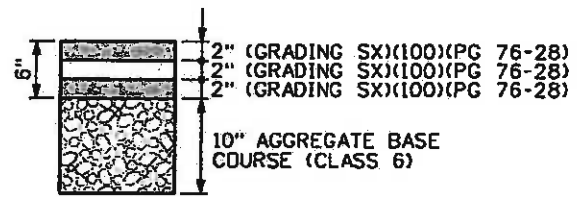
Print Date: 11/4/2009	<b>Sheet Revisions</b>			Colorado Department of Transportation	As Constructed	EDWARDS INTERCHANGE UPGRADE		Project No./Code
Drawing File Name: 06193TYP01.dgn	Date:	Comments	Init.			TYPICAL SECTIONS		
Horiz. Scale: 1:10				714 Grand Avenue, P.O. Box 298 Eagle, CO 81631 Phone: 970-328-6385 FAX: 970-328-2368	No Revisions: 6-6-2011	WB OFF RAMP		CD6-230250
Unit Information					Region 3	Revised:	Designer: DCS	
				MLM	Void:	Detailer: TBS	Subset Sheets: TY-11 of 22	Sheet Number 31



WB OFF RAMP  
TYPICAL SECTION  
STA. 601+70.50 TO STA. 608+00.00



9.5" CONCRETE  
PAVEMENT DETAIL  
(WITH LOAD TRANSFER DEVICES)



6" HOT MIX ASPHALT  
PAVEMENT DETAIL

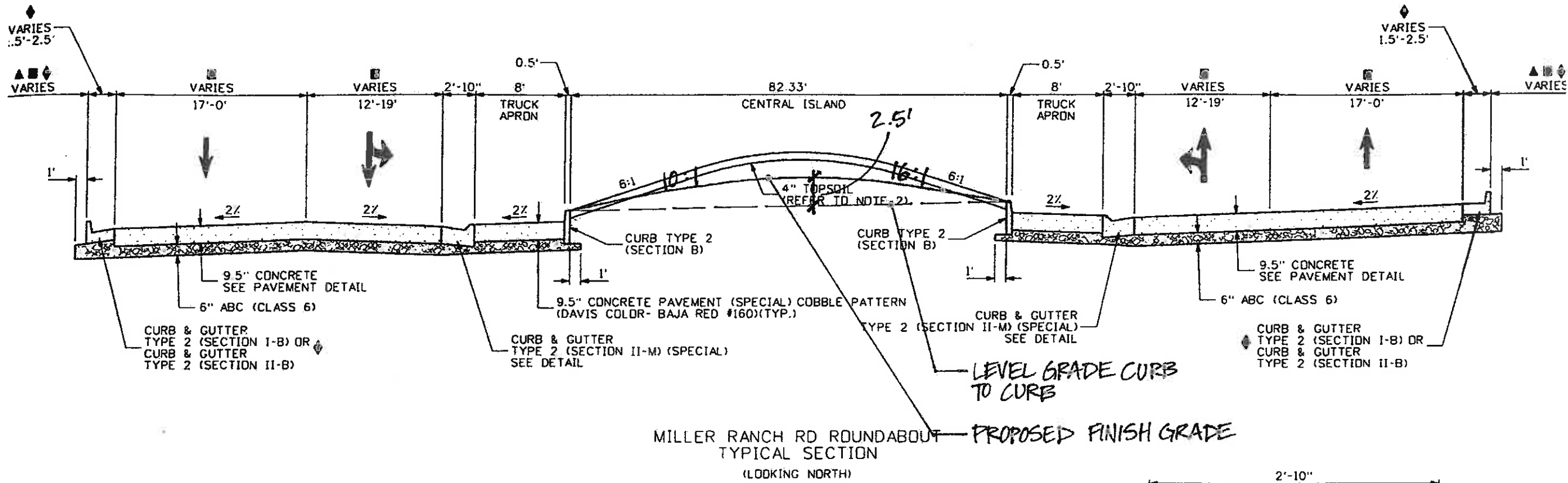
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- \* PAINTED MEDIAN
- ◆ REFER TO ROADWAY PLANS FOR ADDITIONAL INFORMATION



Print Date: 11/4/2009	Sheet Revisions			Colorado Department of Transportation 714 Grand Avenue, P.O. Box 298 Eagle, CO 81631 Phone: 970-328-6385 FAX: 970-328-2368 Region 3	As Constructed No Revisions: 6-6-2011	EDWARDS INTERCHANGE UPGRADE TYPICAL SECTIONS WB OFF RAMP		Project No./Code
Drawing File Name: 06193TYP01.dgn	Date:	Comments	Init.			Revised:	Designer: DCS	Structure Numbers
Unit Information	Unit Leader Initials				Void:	Detailer: TBS	Sheet Subset: TYPICALS	Subset Sheets: TY-12 of 22
				MLM				Sheet Number 32

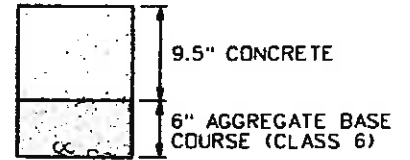


MILLER RANCH RD ROUNDABOUT  
TYPICAL SECTION  
(LOOKING NORTH)

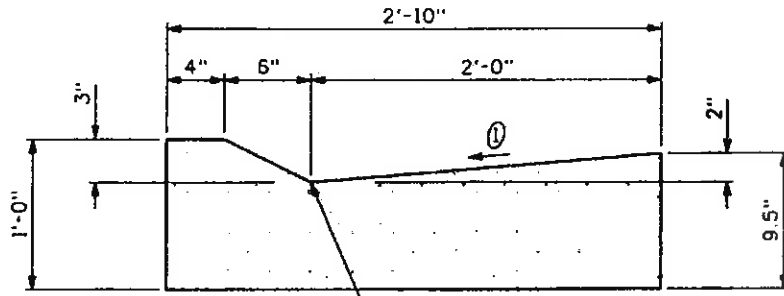
LEVEL GRADE CURB  
TO CURB

PROPOSED FINISH GRADE

Refer to notes on sheet 33

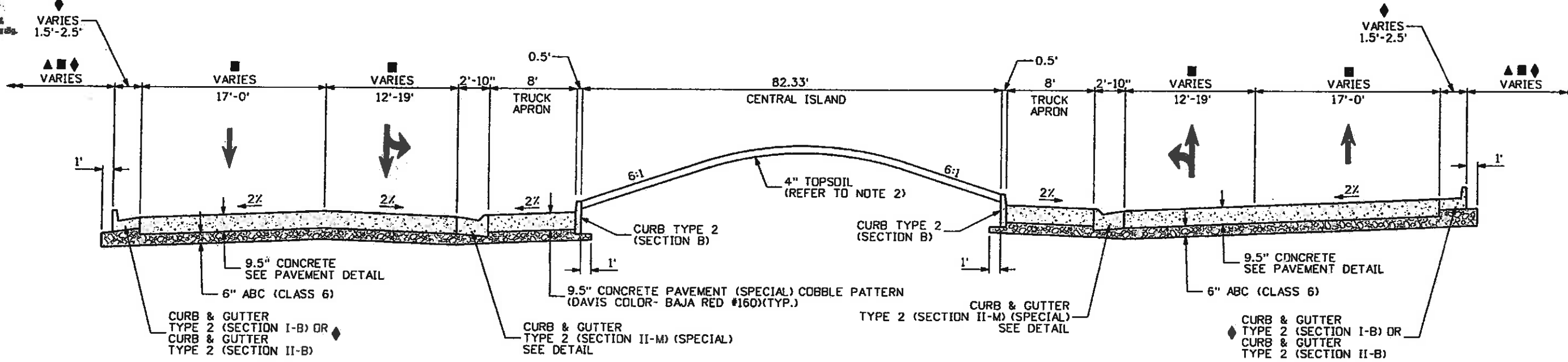


9.5" CONCRETE  
PAVEMENT DETAIL  
(WITH LOAD TRANSFER DEVICES)

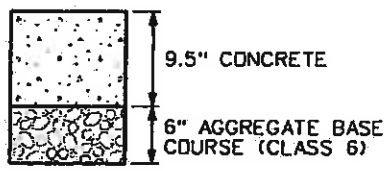


VERTICAL TRANSITION POINT  
AT INLET LOCATIONS  
SEE DRAINAGE DETAILS FOR  
ADDITIONAL INFORMATION

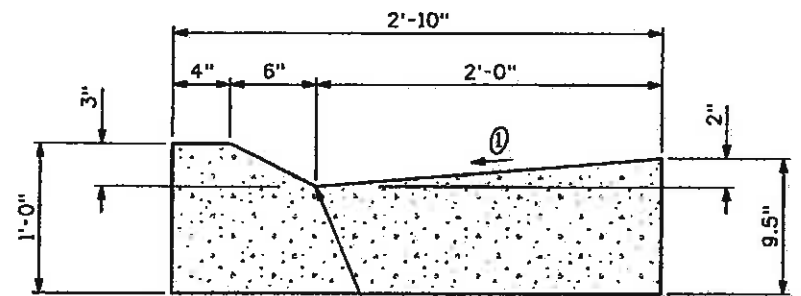
① GUTTER CROSS SLOPES SHALL BE 1/2 IN./FT. WHEN DRAINING AWAY FROM CURB AND 1 IN./FT. WHEN DRAINING TOWARD CURB.



MILLER RANCH RD ROUNDABOUT  
TYPICAL SECTION  
(LOOKING NORTH)



9.5" CONCRETE  
PAVEMENT DETAIL  
(WITH LOAD TRANSFER DEVICES)



VERTICAL TRANSITION POINT  
AT INLET LOCATIONS  
SEE DRAINAGE DETAILS FOR  
ADDITIONAL INFORMATION

① GUTTER CROSS SLOPES SHALL BE 1/2 IN./FT. WHEN DRAINING AWAY FROM CURB AND 1 IN./FT. WHEN DRAINING TOWARD CURB.

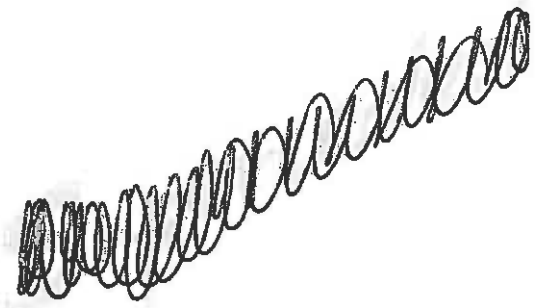
CURB AND GUTTER TYPE 2  
(SECTION II-M)(SPECIAL)  
DETAIL

NOTES:

- 1.) BREAK POINTS ON SLOPES AND IN BOTTOMS OF DITCHES SHALL BE ROUNDED DURING CONSTRUCTION FOR A PLEASING APPEARANCE.
- 2.) THE TOPSOIL SHALL BE PLACED AT A MINIMUM DEPTH OF 4 INCHES.
- 3.) CURB AND GUTTER SECTIONS SHALL BE CONSTRUCTED IN NORMAL CROWN AND SUPERELEVATED SECTIONS PER CDOT DETAILS FOR SPILL AND CATCH CURB.

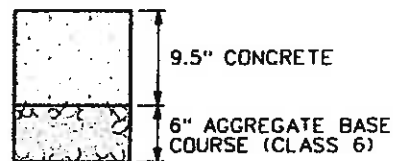
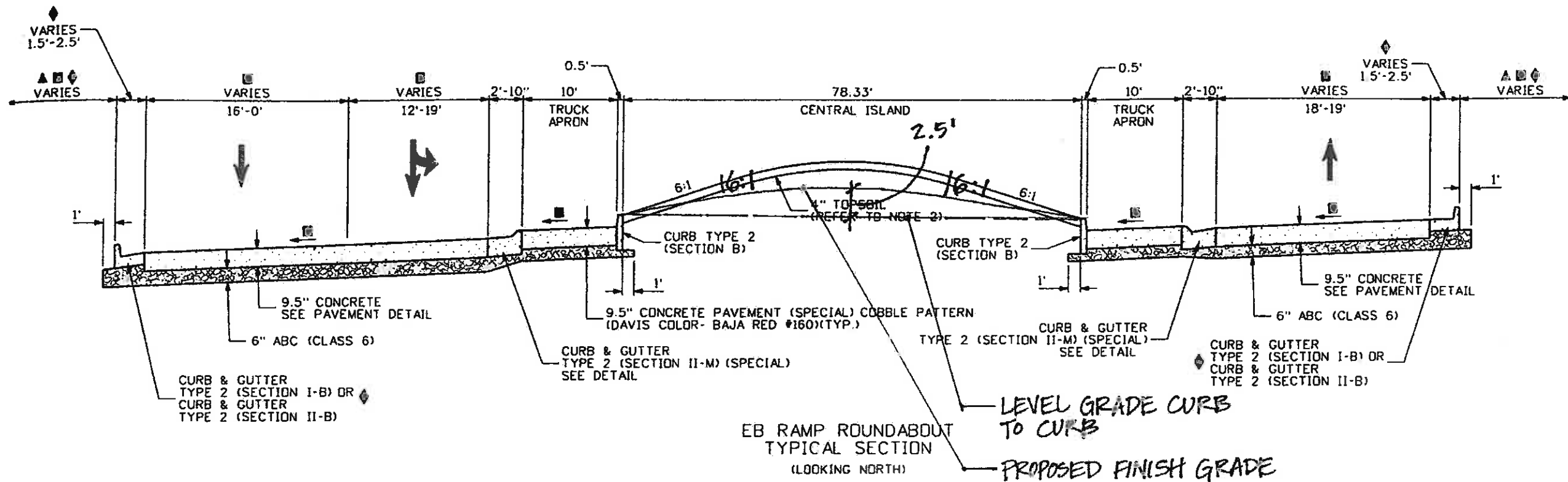
- ▲ REFER TO GRADING AND CROSS SECTION PLANS FOR ADDITIONAL INFORMATION
- 2.0% MINIMUM - REFER TO GRADING AND CROSS SECTION PLANS FOR ADDITIONAL INFORMATION
- REFER TO ROUNDABOUT LAYOUT PLANS, STRIPING PLANS, AND ROADWAY PROFILES FOR ADDITIONAL INFORMATION
- \* PAINTED MEDIAN
- ◆ REFER TO ROADWAY PLANS FOR ADDITIONAL INFORMATION

*Notes still apply!*



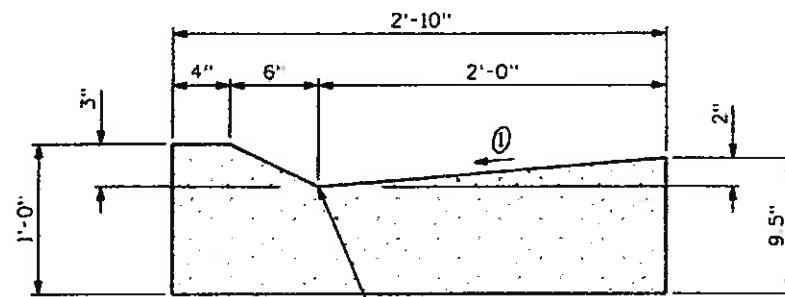
Print Date: 11/4/2009		Sheet Revisions		Colorado Department of Transportation		As Constructed		EDWARDS INTERCHANGE UPGRADE TYPICAL SECTIONS MILLER RANCH RD ROUNDABOUT		Project No./Code		
Drawing File Name: 06193TYP01.dgn		Date:	Comments	Init.	714 Grand Avenue, P.O. Box 298 Eagle, CO 81631 Phone: 970-328-6385 FAX: 970-328-2368		No Revisions:		Designer: DCS		ES388702-2007-22303	
Horiz. Scale: 1:10					Region 3		Revised: 6-6-2011		Structure Numbers		CD6-256350	
Unit Information					MLM		Void:		Detailer: TBS		Sheet Number 33	
Vert. Scale: As Noted									Sheet Subset: TYPICALS		Subset Sheets: TY-13 of 22	
Unit Leader Initials												





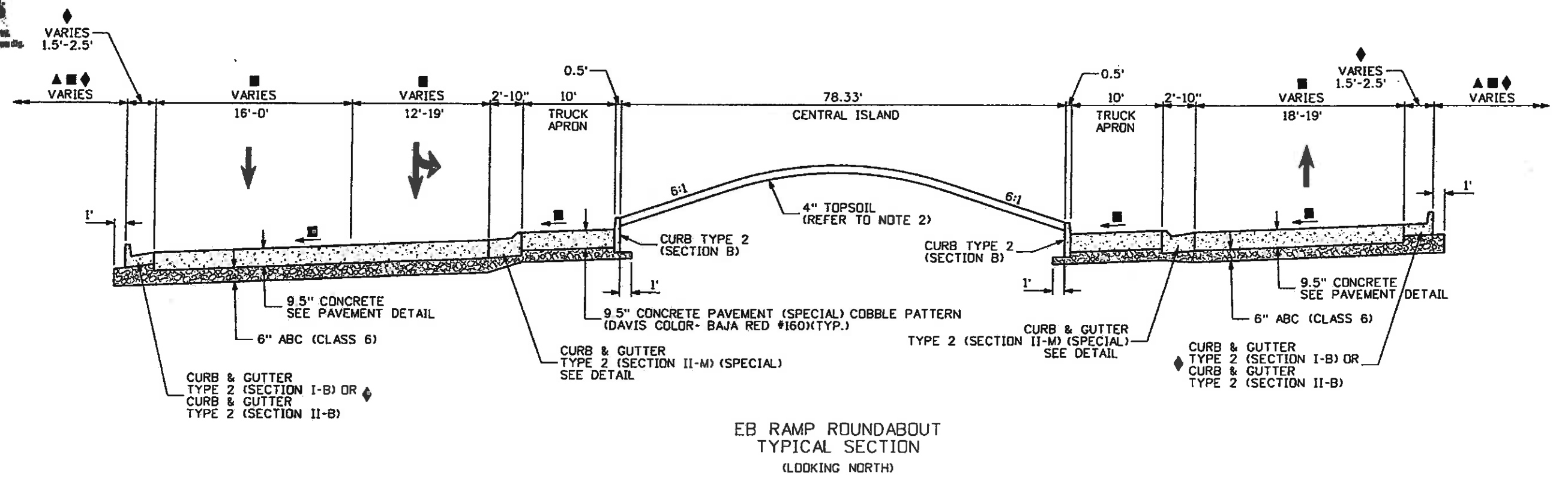
9.5" CONCRETE PAVEMENT DETAIL (WITH LOAD TRANSFER DEVICES)

See notes on Sheet 34

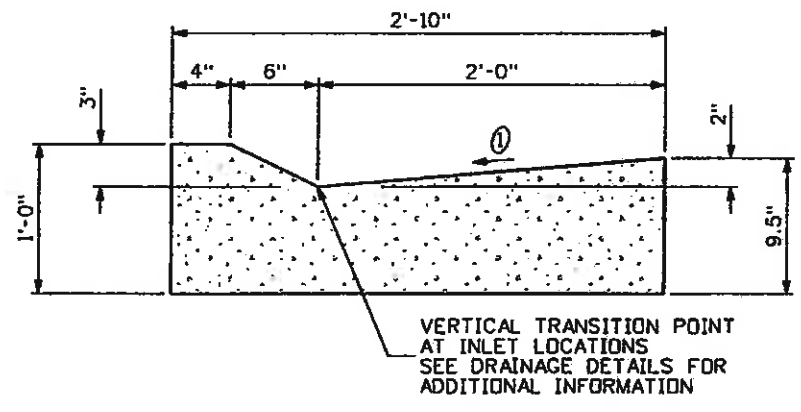
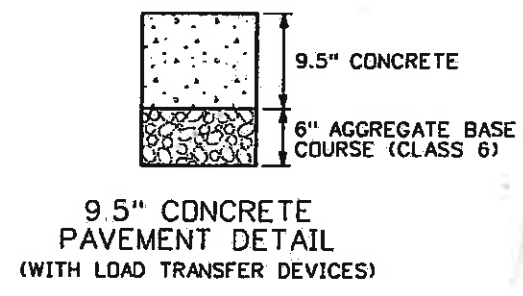


VERTICAL TRANSITION POINT AT INLET LOCATIONS SEE DRAINAGE DETAILS FOR ADDITIONAL INFORMATION  
 ① GUTTER CROSS SLOPES SHALL BE 1/2 IN./FT. WHEN DRAINING AWAY FROM CURB AND 1 IN./FT. WHEN DRAINING TOWARD CURB.

Revised: 6-6-2011



EB RAMP ROUNDABOUT  
TYPICAL SECTION  
(LOOKING NORTH)



① GUTTER CROSS SLOPES SHALL BE 1/2 IN./FT. WHEN DRAINING AWAY FROM CURB AND 1 IN./FT. WHEN DRAINING TOWARD CURB.

CURB AND GUTTER TYPE 2  
(SECTION II-M)(SPECIAL)  
DETAIL

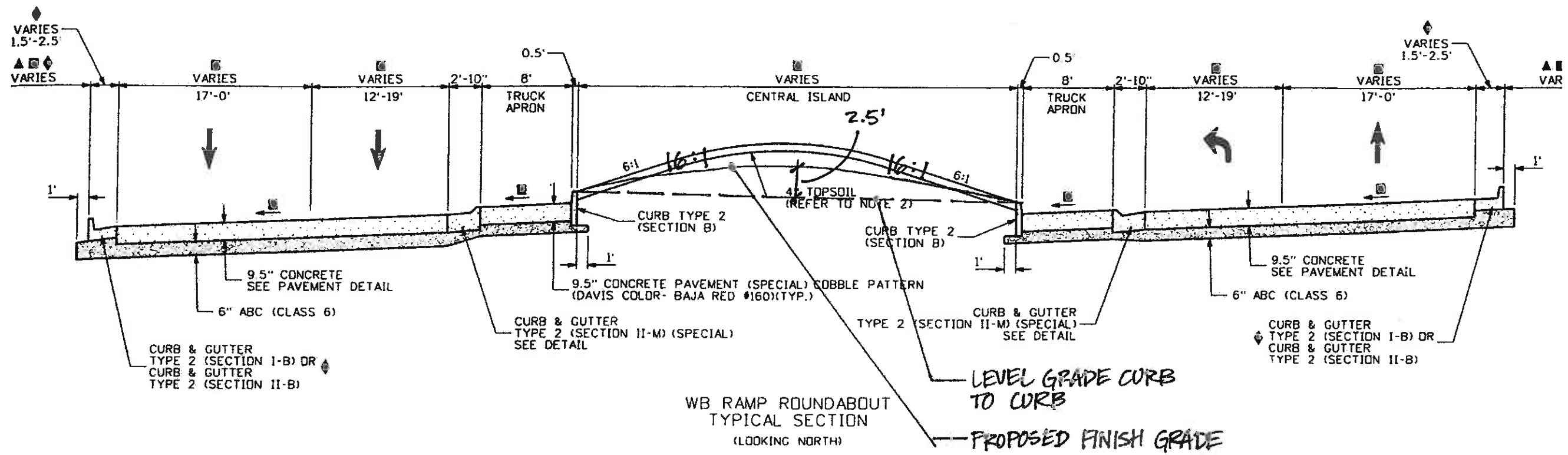
**NOTES:**

- 1.) BREAK POINTS ON SLOPES AND IN BOTTOMS OF DITCHES SHALL BE ROUNDED DURING CONSTRUCTION FOR A PLEASING APPEARANCE.
- 2.) THE TOPSOIL SHALL BE PLACED AT A MINIMUM DEPTH OF 4 INCHES.
- 3.) CURB AND GUTTER SECTIONS SHALL BE CONSTRUCTED IN NORMAL CROWN AND SUPERELEVATED SECTIONS PER CDOT DETAILS FOR SPILL AND CATCH CURB.

- ▲ REFER TO GRADING AND CROSS SECTION PLANS FOR ADDITIONAL INFORMATION
- 2.0% MINIMUM - REFER TO GRADING AND CROSS SECTION PLANS FOR ADDITIONAL INFORMATION
- REFER TO ROUNDABOUT LAYOUT PLANS, STRIPING PLANS, AND ROADWAY PROFILES FOR ADDITIONAL INFORMATION
- \* PAINTED MEDIAN
- ◆ REFER TO ROADWAY PLANS FOR ADDITIONAL INFORMATION



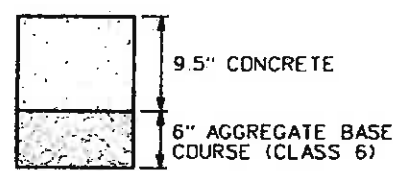
Print Date: 11/4/2009	<b>Sheet Revisions</b>			Colorado Department of Transportation 714 Grand Avenue, P.O. Box 298 Eagle, CO 81631 Phone: 970-328-6385 FAX: 970-328-2368 Region 3 MLM	As Constructed	EDWARDS INTERCHANGE UPGRADE TYPICAL SECTIONS EB RAMP ROUNDABOUT	Project No./Code
Drawing File Name: 06193TYP01.dgn	Date:	Comments:	Init.		No Revisions:		ES388702-202-12503
Horiz. Scale: 1"=10'	Vert. Scale: As Noted				Revised: 6-6-2011	Designer: DCS	Structure Numbers
Unit Information	Unit Leader Initials				Void:	Detailer: TBS	Sheet Subset: TYPICALS
					Subset Sheets: TY-14 of 22		Sheet Number 34



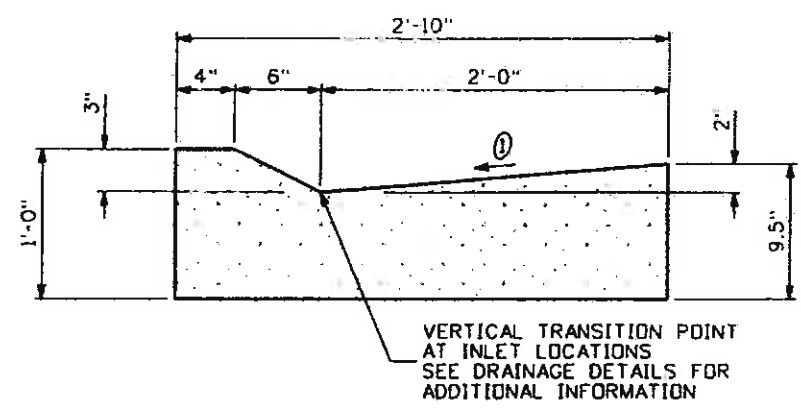
WB RAMP ROUNDABOUT  
TYPICAL SECTION  
(LOOKING NORTH)

LEVEL GRADE CURB  
TO CURB  
PROPOSED FINISH GRADE

See Notes on Sheet 35



9.5" CONCRETE  
PAVEMENT DETAIL  
(WITH LOAD TRANSFER DEVICES)

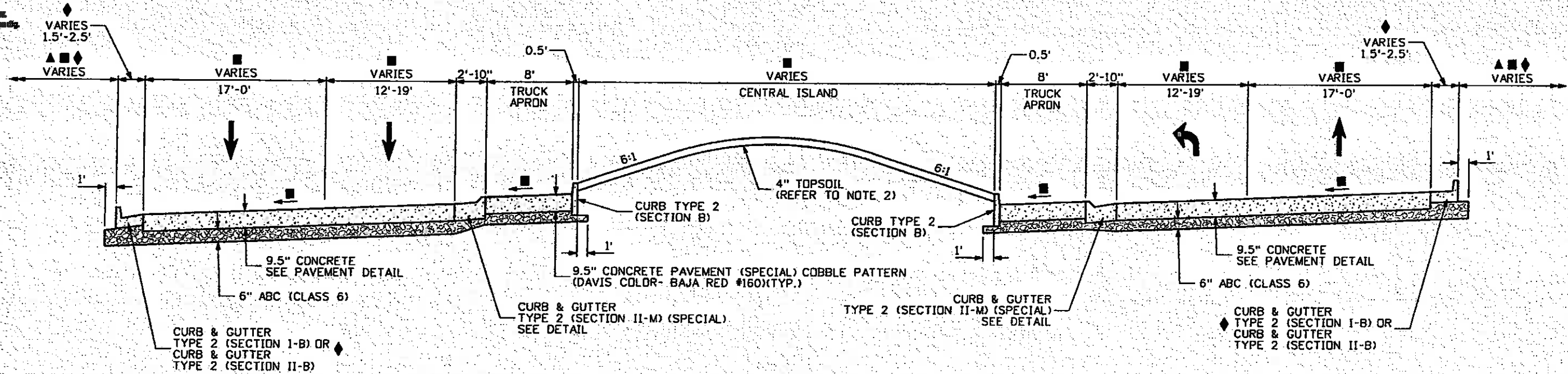


① GUTTER CROSS SLOPES SHALL BE 1/2 IN./FT. WHEN DRAINING AWAY FROM CURB AND 1 IN./FT. WHEN DRAINING TOWARD CURB.

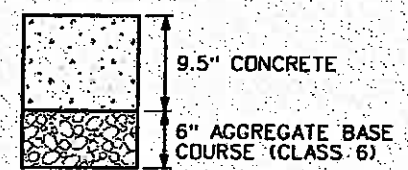
Revised: 6-6-2011



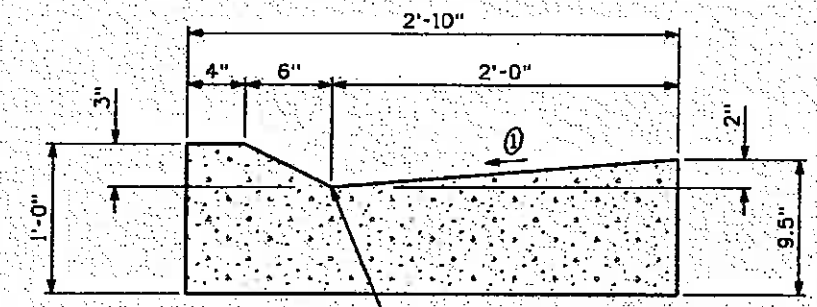
Know what's below.  
Call before you dig.



WB RAMP ROUNDABOUT  
TYPICAL SECTION  
(LOOKING NORTH)



9.5" CONCRETE  
PAVEMENT DETAIL  
(WITH LOAD TRANSFER DEVICES)



CURB AND GUTTER TYPE 2  
(SECTION II-M)(SPECIAL)  
DETAIL

① GUTTER CROSS SLOPES SHALL BE 1/2 IN./FT. WHEN DRAINING AWAY FROM CURB AND 1 IN./FT. WHEN DRAINING TOWARD CURB.

NOTES:

- 1.) BREAK POINTS ON SLOPES AND IN BOTTOMS OF DITCHES SHALL BE ROUNDED DURING CONSTRUCTION FOR A PLEASING APPEARANCE.
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- ▲ REFER TO GRADING AND CROSS SECTION PLANS FOR ADDITIONAL INFORMATION
- ⊙ 2.0% MINIMUM - REFER TO GRADING AND CROSS SECTION PLANS FOR ADDITIONAL INFORMATION
- ▣ REFER TO ROUNDABOUT LAYOUT PLANS, STRIPING PLANS, AND ROADWAY PROFILES FOR ADDITIONAL INFORMATION
- \* PAINTED MEDIAN
- ◆ REFER TO ROADWAY PLANS FOR ADDITIONAL INFORMATION



Print Date: 11/4/2009	
Drawing File Name: 06193TYP01.dgn	
Horiz. Scale: 1:10	Vert. Scale: As Noted
Unit Information	Unit Leader Initials

Sheet Revisions		
Date:	Comments	Init.

Colorado Department of Transportation

714 Grand Avenue, P.O. Box 298  
Eagle, CO 81631  
Phone: 970-328-6385 FAX: 970-328-2368

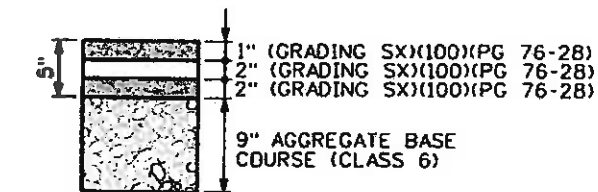
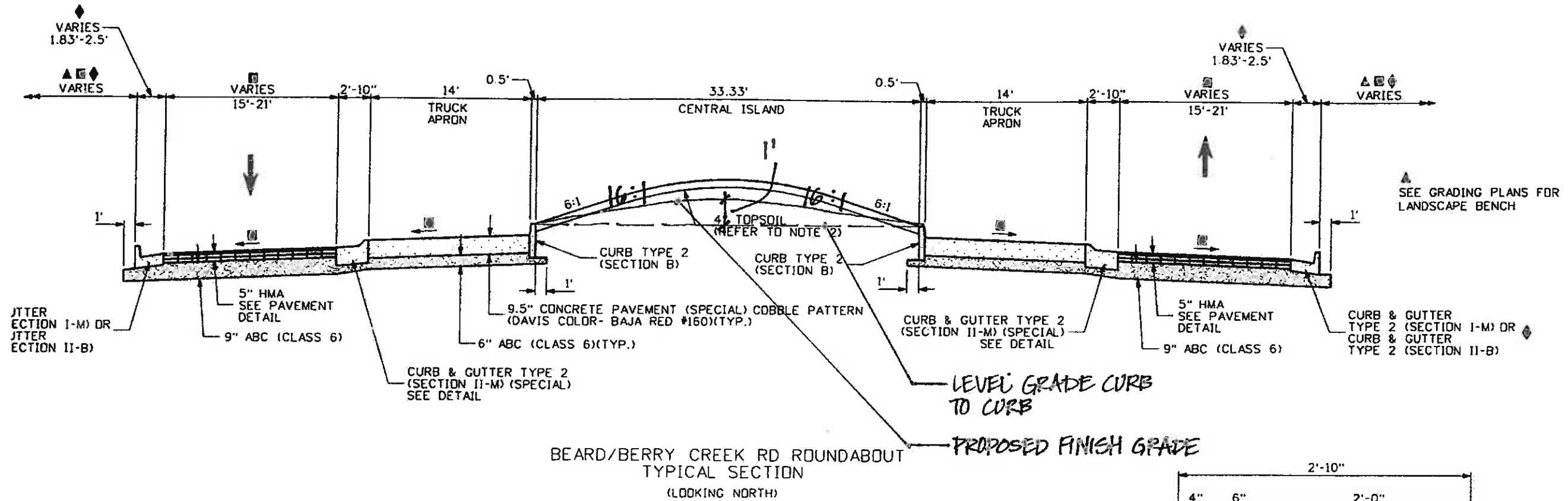
Region 3 MLM

As Constructed
No Revisions:
Revised: 6-6-2011
Void:

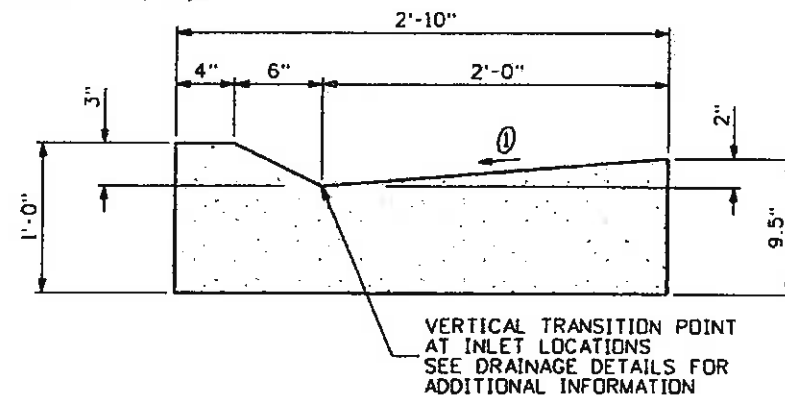
EDWARDS INTERCHANGE UPGRADE TYPICAL SECTIONS WB RAMP ROUNDABOUT	
Designer: DCS	Structure Numbers
Detailer: TBS	
Sheet Subset: TYPICALS	Subset Sheets: TY-15 of 22

Project No./Code
ES337027227-29303
Sheet Number 35



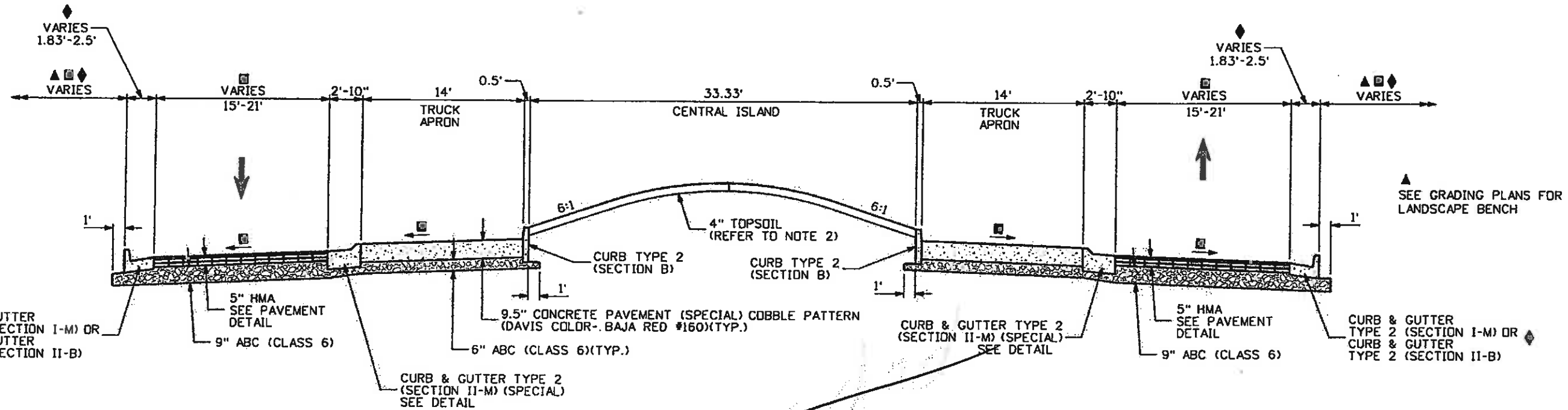


See notes on Sheet 36

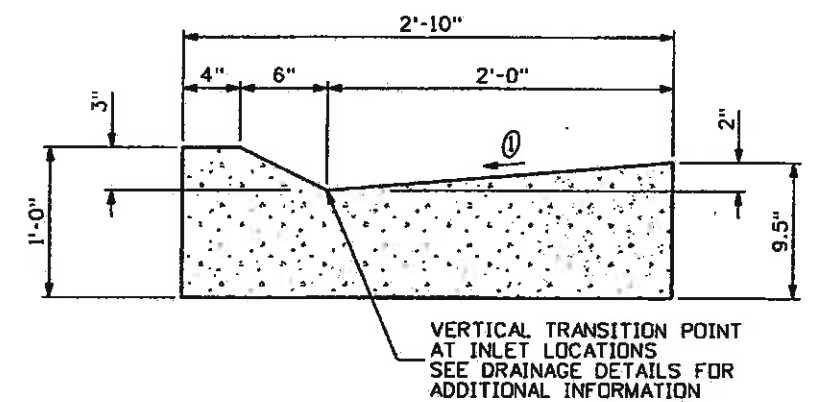


① GUTTER CROSS SLOPES SHALL BE 1/2 IN./FT. WHEN DRAINING AWAY FROM CURB AND 1 IN./FT. WHEN DRAINING TOWARD CURB.

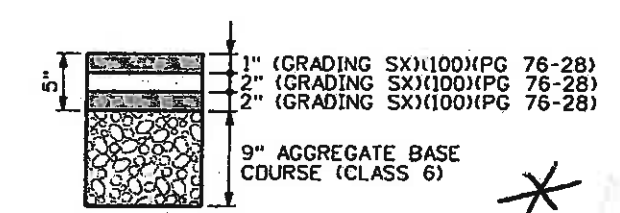
Revised: 6-6-11



BEARD/BERRY CREEK RD ROUNDABOUT  
TYPICAL SECTION  
(LOOKING NORTH)



① GUTTER CROSS SLOPES SHALL BE 1/2 IN./FT. WHEN DRAINING AWAY FROM CURB AND 1 IN./FT. WHEN DRAINING TOWARD CURB.



5" HOT MIX ASPHALT  
PAVEMENT DETAIL

CURB AND GUTTER TYPE 2  
(SECTION II-M)(SPECIAL)  
DETAIL

NOTES:

- 1.) BREAK POINTS ON SLOPES AND IN BOTTOMS OF DITCHES SHALL BE ROUNDED DURING CONSTRUCTION FOR A PLEASING APPEARANCE.
- 2.) THE TOPSOIL SHALL BE PLACED AT A MINIMUM DEPTH OF 4 INCHES.
- 3.) CURB AND GUTTER SECTIONS SHALL BE CONSTRUCTED IN NORMAL CROWN AND SUPERELEVATED SECTIONS PER CDDT DETAILS FOR SPILL AND CATCH CURB.

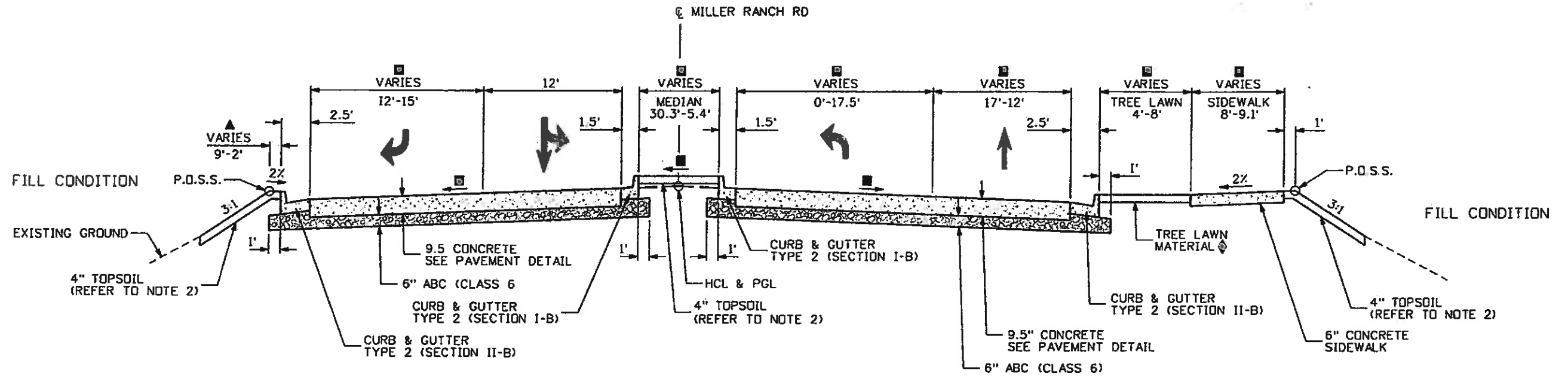
- ▲ REFER TO GRADING AND CROSS SECTION PLANS FOR ADDITIONAL INFORMATION
- 2.0% MINIMUM - REFER TO GRADING AND CROSS SECTION PLANS FOR ADDITIONAL INFORMATION
- REFER TO ROUNDABOUT LAYOUT PLANS, STRIPING PLANS, AND ROADWAY PROFILES FOR ADDITIONAL INFORMATION
- \* PAINTED MEDIAN
- ◆ REFER TO ROADWAY PLANS FOR ADDITIONAL INFORMATION



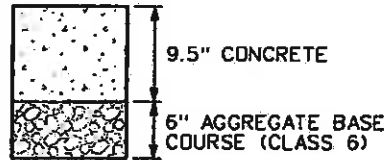
Print Date: 11/4/2009		Sheet Revisions		Colorado Department of Transportation		As Constructed		EDWARDS INTERCHANGE UPGRADE		Project No./Code	
Drawing File Name: 06193TYP01.dgn		Date:	Comments	Init.	714 Grand Avenue, P.O. Box 298 Eagle, CO 81631 Phone: 970-328-6385 FAX: 970-328-2368		No Revisions:	BEARD/BERRY CREEK RD ROUNDABOUT		ES 3:07027097/09303	
Horiz. Scale 1:10					Region 3		Revised: 6-6-2011	Designer: DCS		CD 7298-50	
Unit Information					MLM		Void:	Detailer: TBS		Sheet Number 36	
Vert. Scale: As Noted								Structure Numbers		Subst. Sheets: TY-16 of 22	
Unit Leader Initials								Sheet Subset: TYPICALS			



Know what's below. Call before you dig.



MILLER RANCH RD  
TYPICAL SECTION  
STA. 201+41.58 TO STA. 202+34.15



9.5" CONCRETE PAVEMENT DETAIL  
(WITH LOAD TRANSFER DEVICES)

NOTES:

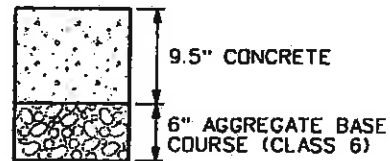
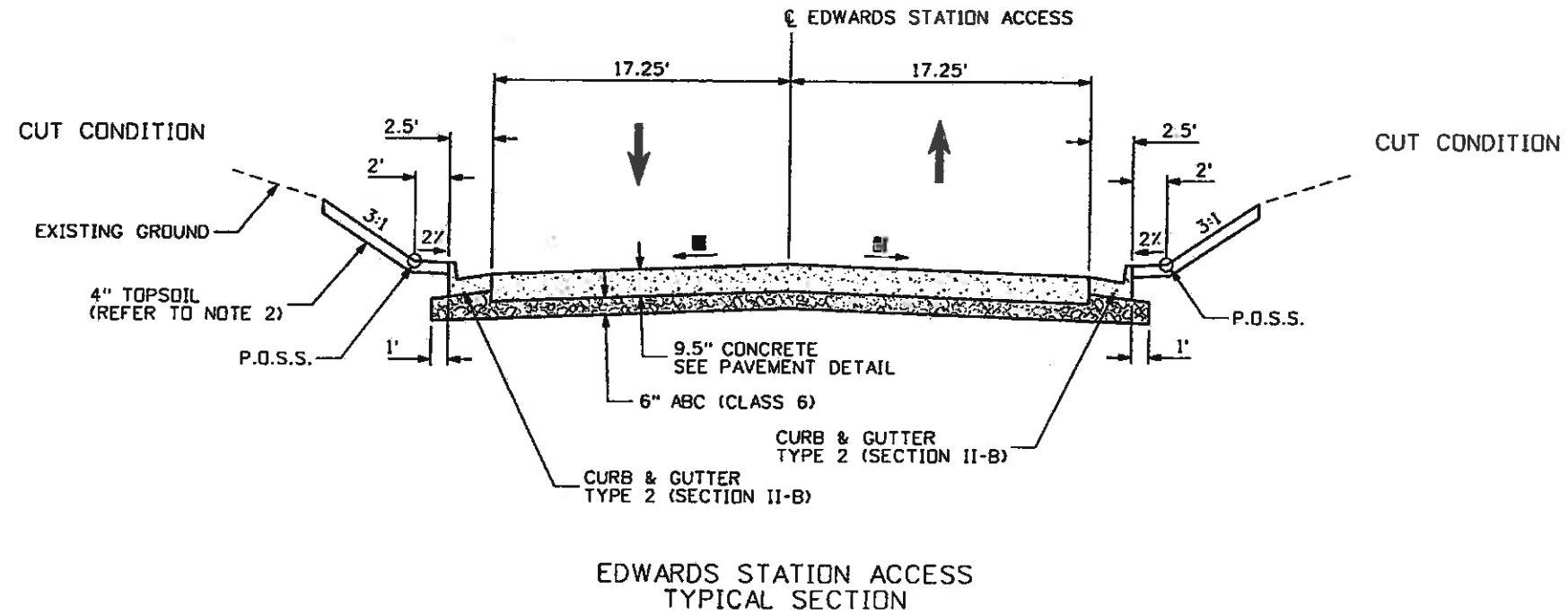
- 1.) BREAK POINTS ON SLOPES AND IN BOTTOMS OF DITCHES SHALL BE ROUNDED DURING CONSTRUCTION FOR A PLEASING APPEARANCE.
- 2.) THE TOPSOIL SHALL BE PLACED AT A MINIMUM DEPTH OF 4 INCHES.
- 3.) CURB AND GUTTER SECTIONS SHALL BE CONSTRUCTED IN NORMAL CROWN AND SUPERELEVATED SECTIONS PER CDDT DETAILS FOR SPILL AND CATCH CURB.
- ▲ REFER TO GRADING AND CROSS SECTION PLANS FOR ADDITIONAL INFORMATION
- 2.0% MINIMUM - REFER TO GRADING AND CROSS SECTION PLANS FOR ADDITIONAL INFORMATION
- REFER TO ROUNDABOUT LAYOUT PLANS, STRIPING PLANS, AND ROADWAY PROFILES FOR ADDITIONAL INFORMATION
- \* PAINTED MEDIAN
- ◆ REFER TO ROADWAY PLANS FOR ADDITIONAL INFORMATION



Print Date: 11/4/2009	Sheet Revisions			Colorado Department of Transportation	As Constructed	EDWARDS INTERCHANGE UPGRADE		Project No./Code
Drawing File Name: 061931TYP01.dgn	Date:	Comments	Init.		No Revisions: 6-6-2011	TYPICAL SECTIONS		ES3 20020202-12503
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Unit Information	Unit Leader Initials				Void:	Designer: DCS	Structure Numbers	Sheet Number 37
				Region 3	MLM	Detailer: TBS	Subset Sheets: TY-17 of 22	
				714 Grand Avenue, P.O. Box 298 Eagle, CO 81631 Phone: 970-328-6385 FAX: 970-328-2368		Sheet Subset: TYPICALS		



Know what's below. Call before you dig.



9.5" CONCRETE PAVEMENT DETAIL (WITH LOAD TRANSFER DEVICES)

NOTES:

- 1.) BREAK POINTS ON SLOPES AND IN BOTTOMS OF DITCHES SHALL BE ROUNDED DURING CONSTRUCTION FOR A PLEASING APPEARANCE.
- 2.) THE TOPSOIL SHALL BE PLACED AT A MINIMUM DEPTH OF 4 INCHES.
- 3.) CURB AND GUTTER SECTIONS SHALL BE CONSTRUCTED IN NORMAL CROWN AND SUPERELEVATED SECTIONS PER CDDT DETAILS FOR SPILL AND CATCH CURB.

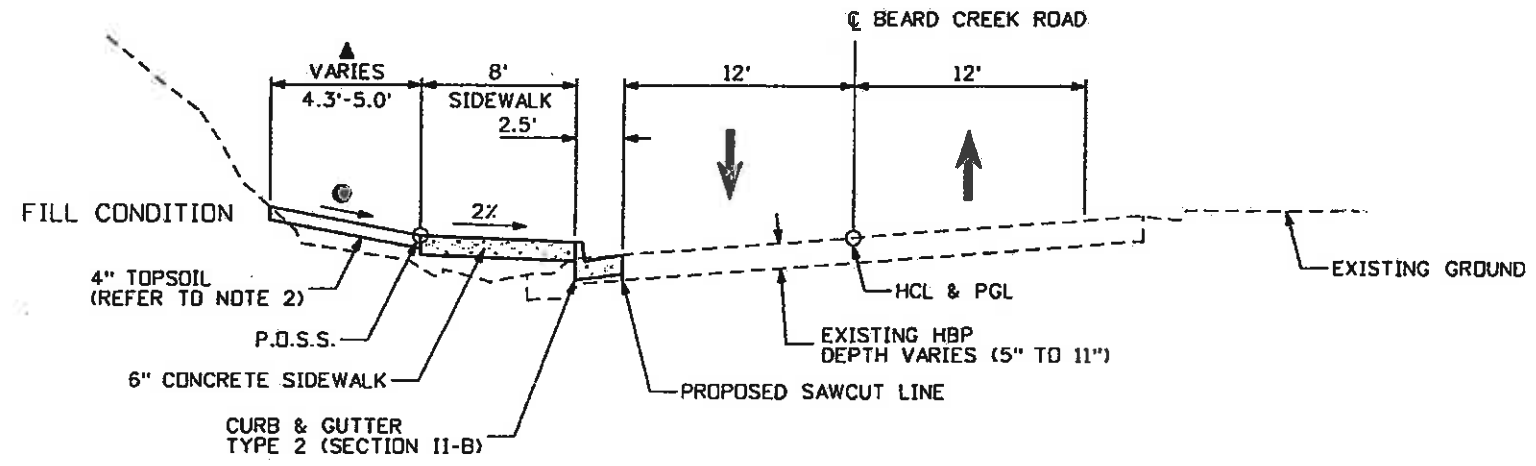
- ▲ REFER TO GRADING AND CROSS SECTION PLANS FOR ADDITIONAL INFORMATION
- 2.0% MINIMUM - REFER TO GRADING AND CROSS SECTION PLANS FOR ADDITIONAL INFORMATION
- REFER TO ROUNDABOUT LAYOUT PLANS, STRIPING PLANS, AND ROADWAY PROFILES FOR ADDITIONAL INFORMATION
- \* PAINTED MEDIAN
- ◆ REFER TO ROADWAY PLANS FOR ADDITIONAL INFORMATION



Print Date: 11/4/2009	Sheet Revisions			Colorado Department of Transportation		As Constructed		EDWARDS INTERCHANGE UPGRADE TYPICAL SECTIONS EDWARDS STATION ACCESS		Project No./Code	
Drawing File Name: 06193TYP01.dgn	Date:	Comments	Init.	714 Grand Avenue, P.O. Box 298 Eagle, CO 81631 Phone: 970-328-6385 FAX: 970-328-2368 Region 3 <span style="float: right;">MLM</span>		No Revisions: 6-6-2011	Designer: DCS Detailer: TBS Sheet Subset: TYPICALS		Structure Numbers Subset Sheets: TY-18 of 22		ES3-0702-20747503
Horiz. Scale: 1:10	Vert. Scale: As Noted	(R-X)				Revised:					CS67255-50
Unit Information	Unit Leader Initials					Void:					Sheet Number 38



Know what's Below.  
Call before you dig.



BEARD CREEK RD  
TYPICAL SECTION  
STA. 708+43.25 TO STA. 708+51.30

**NOTES:**

- 1.) BREAK POINTS ON SLOPES AND IN BOTTOMS OF DITCHES SHALL BE ROUNDED DURING CONSTRUCTION FOR A PLEASING APPEARANCE.
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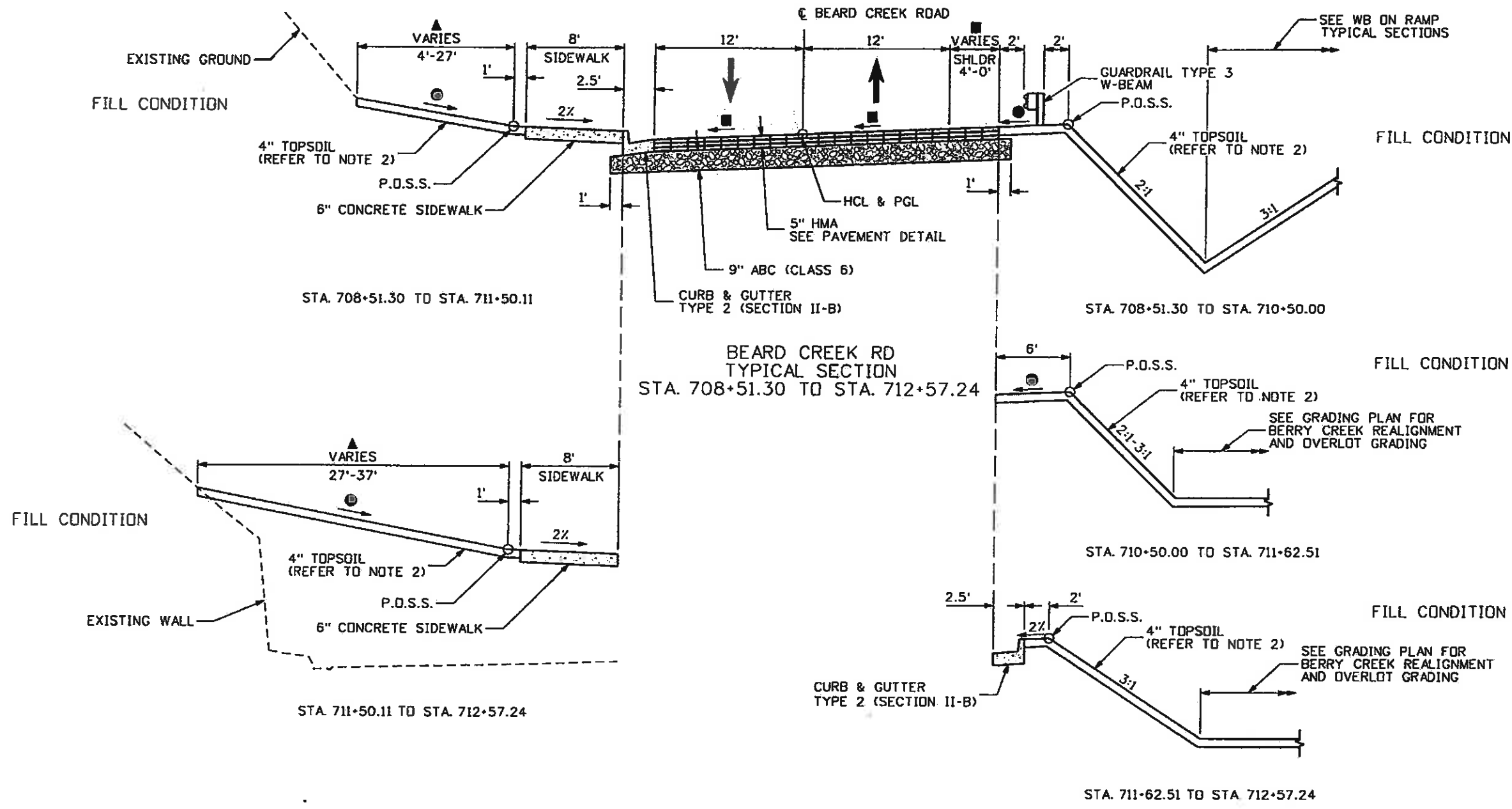
- ▲ REFER TO GRADING AND CROSS SECTION PLANS FOR ADDITIONAL INFORMATION
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Print Date: 11/4/2009	<b>Sheet Revisions</b>			Colorado Department of Transportation  714 Grand Avenue, P.O. Box 298 Eagle, CO 81631 Phone: 970-328-6385 FAX: 970-328-2368 Region 3	As Constructed	EDWARDS INTERCHANGE UPGRADE TYPICAL SECTIONS BEARD CREEK RD		Project No./Code
Drawing File Name: 06193TYP01.dgn	Date:	Comments:	Init.		No Revisions: 6-6-2011	Designer: DCS	Structure Numbers	ES:507027027/19303
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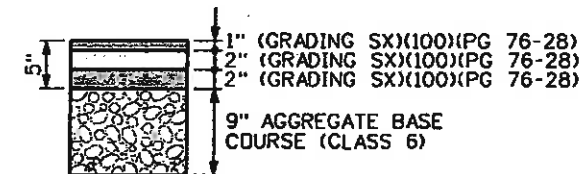
Know what's below. Call before you dig.



NOTES:

- 1.) BREAK POINTS ON SLOPES AND IN BOTTOMS OF DITCHES SHALL BE ROUNDED DURING CONSTRUCTION FOR A PLEASING APPEARANCE.
- 2.) THE TOPSOIL SHALL BE PLACED AT A MINIMUM DEPTH OF 4 INCHES.
- 3.) CURB AND GUTTER SECTIONS SHALL BE CONSTRUCTED IN NORMAL CROWN AND SUPERELEVATED SECTIONS PER CDOT DETAILS FOR SPILL AND CATCH CURB.

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- \* PAINTED MEDIAN
- ◆ REFER TO ROADWAY PLANS FOR ADDITIONAL INFORMATION



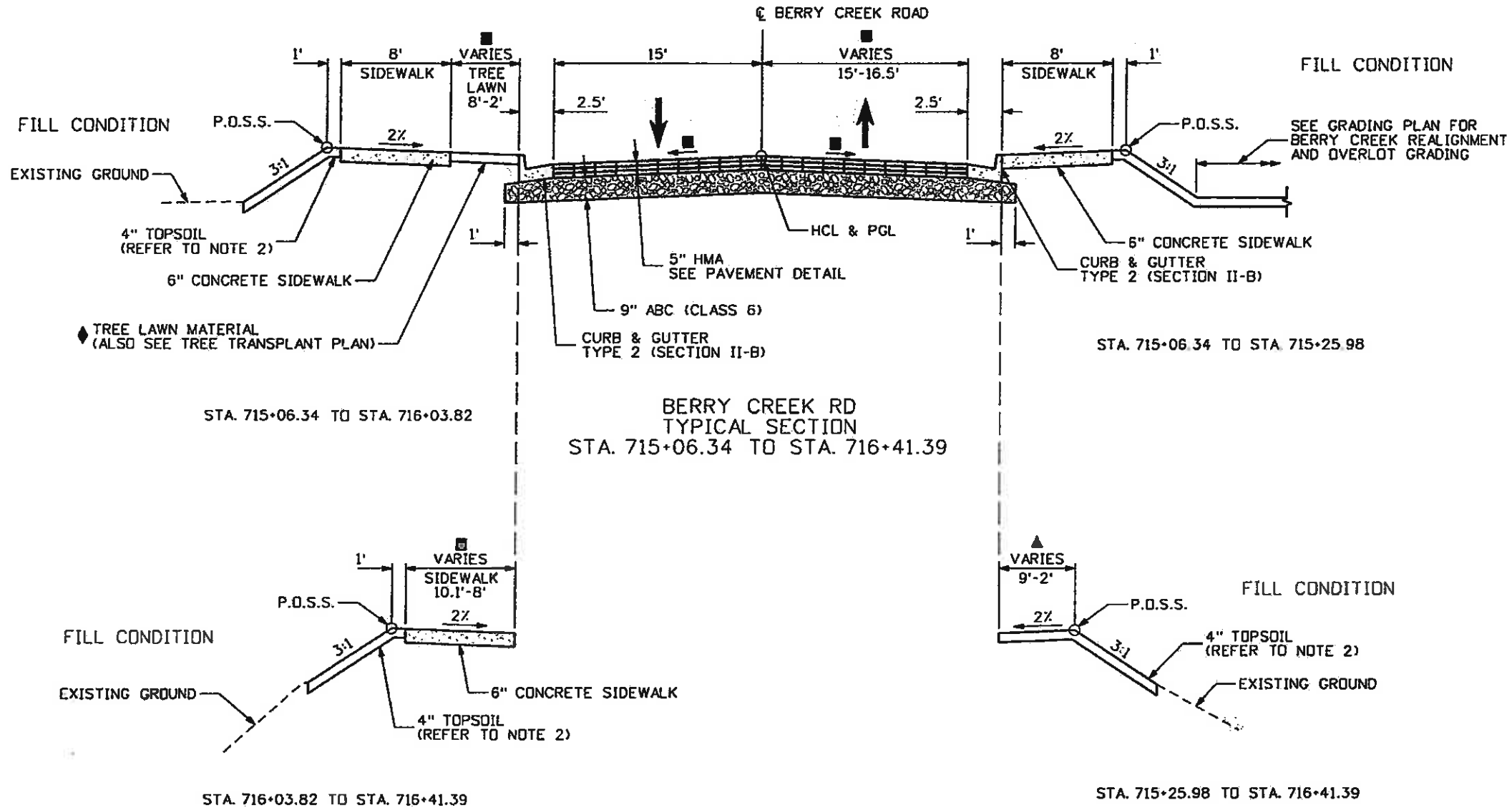
5" HOT MIX ASPHALT PAVEMENT DETAIL



Print Date: 11/4/2009	Sheet Revisions			Colorado Department of Transportation	As Constructed	EDWARDS INTERCHANGE UPGRADE TYPICAL SECTIONS BEARD CREEK RD		Project No./Code
Drawing File Name: 06193TYPO1.dgn	Date:	Comments	Init.	714 Grand Avenue, P.O. Box 298 Eagle, CO 81631 Phone: 970-328-6385 FAX: 970-328-2368 Region 3 MLM	No Revisions: 6-6-2011	Designer: DCS	Structure Numbers	ES 3007027297A9303
Horiz. Scale: 1:10	Vert. Scale: As Noted				Revised:	Detailer: TBS		067298-50
Unit Information	Unit Leader Initials				Void:	Sheet Subset: TYPICALS	Subset Sheets: TY-20 of 22	Sheet Number 40



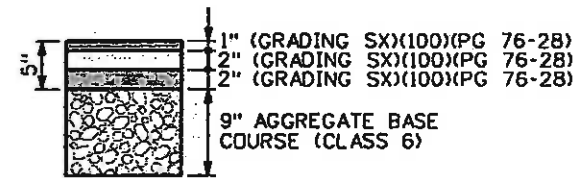
Know what's below.  
Call before you dig.



**NOTES:**

- 1.) BREAK POINTS ON SLOPES AND IN BOTTOMS OF DITCHES SHALL BE ROUNDED DURING CONSTRUCTION FOR A PLEASING APPEARANCE.
- 2.) THE TOPSOIL SHALL BE PLACED AT A MINIMUM DEPTH OF 4 INCHES.
- 3.) CURB AND GUTTER SECTIONS SHALL BE CONSTRUCTED IN NORMAL CROWN AND SUPERELEVATED SECTIONS PER CDOT DETAILS FOR SPILL AND CATCH CURB.

- ▲ REFER TO GRADING AND CROSS SECTION PLANS FOR ADDITIONAL INFORMATION
- 2.0% MINIMUM - REFER TO GRADING AND CROSS SECTION PLANS FOR ADDITIONAL INFORMATION
- REFER TO ROUNDABOUT LAYOUT PLANS, STRIPING PLANS, AND ROADWAY PROFILES FOR ADDITIONAL INFORMATION
- \* PAINTED MEDIAN
- ◆ REFER TO ROADWAY PLANS FOR ADDITIONAL INFORMATION



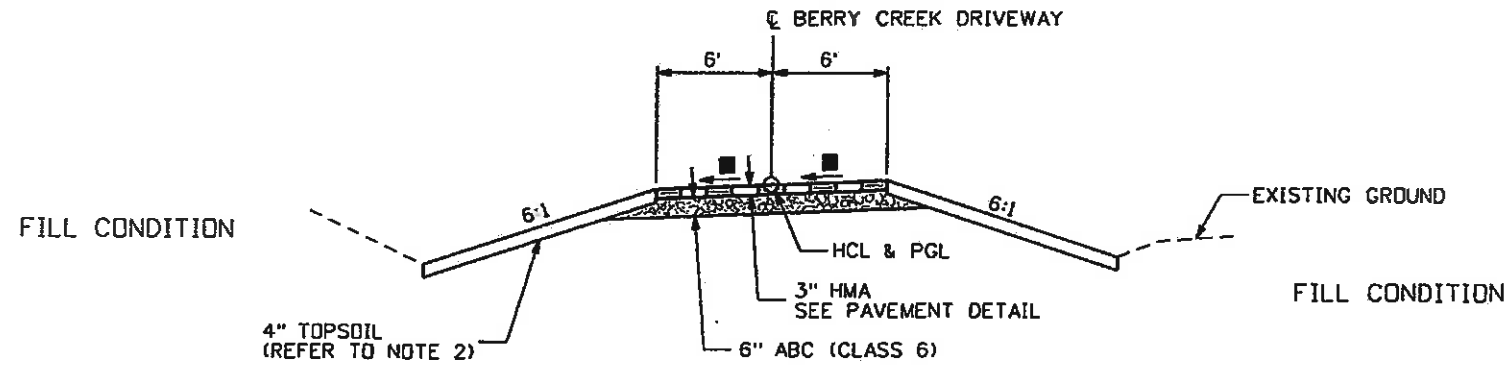
5" HOT MIX ASPHALT PAVEMENT DETAIL



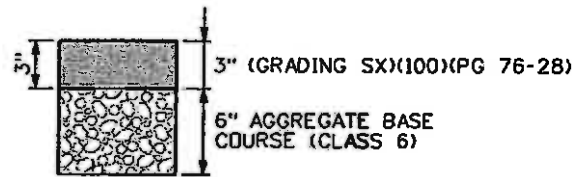
Print Date: 11/4/2009	<b>Sheet Revisions</b>			Colorado Department of Transportation 714 Grand Avenue, P.D. Box 298 Eagle, CO 81631 Phone: 970-328-6385 FAX: 970-328-2368 Region 3 MLM	As Constructed	EDWARDS INTERCHANGE UPGRADE TYPICAL SECTIONS BERRY CREEK RD		Project No./Code
Drawing File Name: 06193TYP01.dgn	Date:	Comments:	Init.		No Revisions: 6-6-2011	Designer: DCS	Structure Numbers:	ES193702709729703
Horiz. Scale: 1:10	Vert. Scale: As Noted				Revised:	Detailer: TBS		CO6-786350
Unit Information	Unit Leader Initials				Void:	Sheet Subset: TYPICALS	Subset Sheets: TY-21 of 22	Sheet Number 41



Know what's below.  
Call before you dig.



BERRY CREEK RD DRIVEWAY  
TYPICAL SECTION  
STA. 70+33.50 TO STA. 71+00.00



3" HOT MIX ASPHALT  
PAVEMENT DETAIL

**NOTES:**

- 1.) BREAK POINTS ON SLOPES AND IN BOTTOMS OF DITCHES SHALL BE ROUNDED DURING CONSTRUCTION FOR A PLEASING APPEARANCE.
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Drawing File Name: 06193TYP01.dgn		Date:      Comments      Init.	714 Grand Avenue, P.O. Box 298 Eagle, CO 81631 Phone: 970-328-6385 FAX: 970-328-2368	No Revisions: 6-6-2011	Designer: DCS Detailer: TBS	ES3E8302-2327-23303
Horiz. Scale: 1:10      Vert. Scale: As Noted	Unit Information      Unit Leader Initials		<b>Region 3</b>	Revised:	Structure Numbers	CD67236-50
			MLM	Void:	Sheet Subset: TYPICALS      Subset Sheets: TY-22 of 22	Sheet Number <b>42</b>