

Oversight / NHS

FHWA REGION VIII OVERSIGHT?  NO  YES

NATIONAL HIGHWAY SYSTEM?  NO  YES

# DEPARTMENT OF TRANSPORTATION STATE OF COLORADO

**Related Projects:**  
P. E. UNDER PROJECT: FSA 0503-081  
Project Number: 19751  
Project Code:  
**R.O.W. Projects:**  
R.O.W. Project Description: FSA 0503-081  
19751

**TABULATION OF LENGTH & DESIGN DATA**

STATION	FEET	
	ROADWAY US 50	MAJOR STR.
BEGIN FSA 0503-081 ON US 50		
BEGIN APPROACH TO PROJECT ON US 50 = M.P. 307.0		
BEGIN McCULLOCH BLVD INTERSECTION IMPROVEMENTS STA. 700+37.13 = MP 307.34		
END McCULLOCH BLVD INTERSECTION IMPROVEMENTS STA. 721+41.51 = MP 307.67	1,754.0	
NO WORK ZONE MP 307.67 TO 309.78		
BEGIN US 50 WIDENING AND OVERLAY STA. 97+13.10 = MP 309.78	14,560.5	
BEGIN STRUCTURE K-18-CW STA. 242+73.64 = M.P. 312.56		233.1
END STRUCTURE K-18-CW STA. 245+06.76 = MP 312.60		
END US 50 WIDENING AND OVERLAY STA. 274+12.08 = MP 313.15	2,901.6	
BEGIN APPROACH TO PROJECT = MP 313.5		
END FSA 0503-081 ON US 50		
<b>TOTAL</b>	19,216.2	233.1
<b>SUMMARY OF PROJECT LENGTH</b>	FEET	MILES
MAJOR STRUCTURE	233.1	0.04
PROJECT GROSS LENGTH	19,449.3	3.7

## HIGHWAY CONSTRUCTION BID PLANS OF PROPOSED FEDERAL AID PROJECT NO. FSA 0503-081 UNITED STATES HIGHWAY NO. 50 PUEBLO COUNTY CONSTRUCTION PROJECT CODE NO.19751

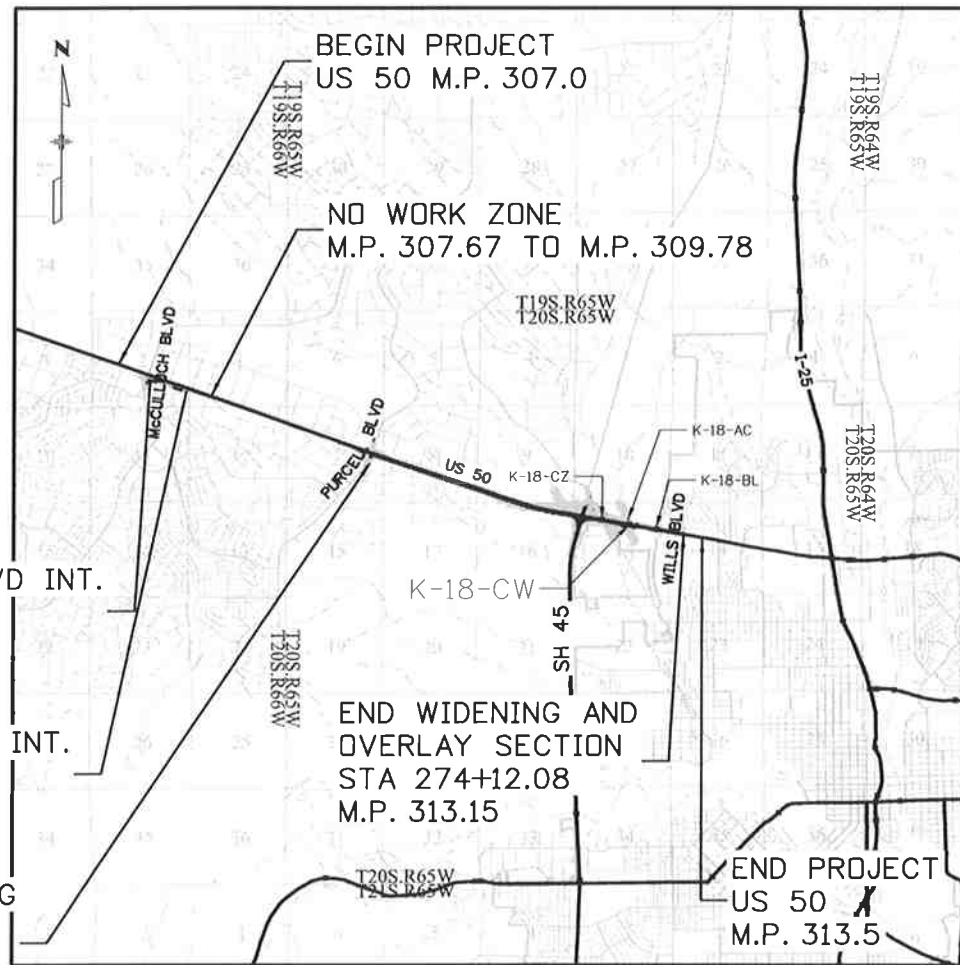
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302-303	CLASS III CROSS SECTIONS
304	ITS PLAN AND TABULATION

DESIGN DATA	US 50 (EB)
MAXIMUM RADIUS OF CURVE	6,844 FT.
MAXIMUM GRADE	5.20%
MINIMUM S.S.D. HORIZONTAL	495 FT.
MINIMUM S.S.D. VERTICAL	495 FT.
MAXIMUM DESIGN SPEED	65 MPH
2035 DESIGN TRAFFIC	DHV = 4,493 vph ADT = 43,425 vpd
DHV TRUCK %	6.40%
CLEAR ZONE DISTANCE (TANGENT)	24 FT.
CLEAR ZONE DISTANCE (XXX MIN. RADIUS)	24 FT.
CONSTRUCTION CLEAR ZONE (MIN 18')	18 FT.

BEGIN McCULLOCH BLVD INT. IMPROVEMENTS  
M.P. 307.34

END McCULLOCH BLVD INT. IMPROVEMENTS  
M.P. 307.67

BEGIN US 50 WIDENING AND OVERLAY  
STA 97+13.10  
M.P. 309.78



PROJECT LOCATION MAP



Print Date: 10/9/2014	<b>Sheet Revisions</b>	Colorado Department of Transportation	As Constructed	Contract Information	Project No./Code
File Name: 19056DES_TitleSht.dgn	Date: _____	902 Erie Avenue Pueblo, CO 81001 Phone: 719-562-5509 FAX: 719-546-5702	No Revisions:	Contractor:	FSA 0503-081
Horiz. Scale: 1:1      Vert. Scale: As Noted	Comments: _____		Revised:	Resident Engineer:	19751
Unit Information: DTD	Init.: _____		Void:	PROJECT STARTED: / /      ACCEPTED: / /	Sheet Number      1
J. F. SATO AND ASSOCIATES 5898 South Rapp Street Littleton, Colorado 80120			Region 2      DTD	Comments:	

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\nas1\09000...Jobs\0940E CDDT US150 Design\04...Design\90556\Design\Drawings\01\_06\_General\2012 M and S Standards Plans List Index.dgn

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**COLORADO**  
**DEPARTMENT OF TRANSPORTATION**  
**M&S STANDARDS PLANS LIST**  
**July 04, 2012**  
**Revised on October 27, 2014**

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

NEW OR REVISED STANDARD PLAN SHEETS APPLICABLE TO THIS PROJECT, INDICATED BY A MARKED BOX ■, WILL BE ATTACHED TO THE PLANS.

Print Date: 10/28/2014		<b>Sheet Revisions</b>			<b>Colorado Department of Transportation</b>		<b>As Constructed</b>		<b>STANDARDS PLANS LIST</b>			<b>Project No./Code</b>			
File Name: 2012 M and S Standards Plans List Index.dgn		Date:	Comments:	Init.	 902 Erie Avenue Pueblo, CO 81001 Phone: 719-562-5509 FAX: 719-546-5702 <b>Region 2</b> <span style="float: right;"><b>DTD</b></span>		No Revisions:		Designer: Detailer: Subset:			FSA 0503-081			
Horiz. Scale: 1:1 Vert. Scale: As Noted							Revised:					Structure Numbers		19751	
 J.F. SATO AND ASSOCIATES 5898 South Rapp Street Littleton, Colorado 80120							Void:					Subset Sheets: of		Sheet Number 2	

**GENERAL NOTES**

1. For final plan quantities of pavement materials, the following rates of application were used:
  - Bituminous Pavement .....@ 110 Lbs./Sq. Yd./Inch
  - Aggregate Base Course Class 6 .....@ 133 Lbs./Cu. Ft.
  - Emulsified Asphalt (Slow Setting) .....@ 0.05 Gal/Sq. Yd.

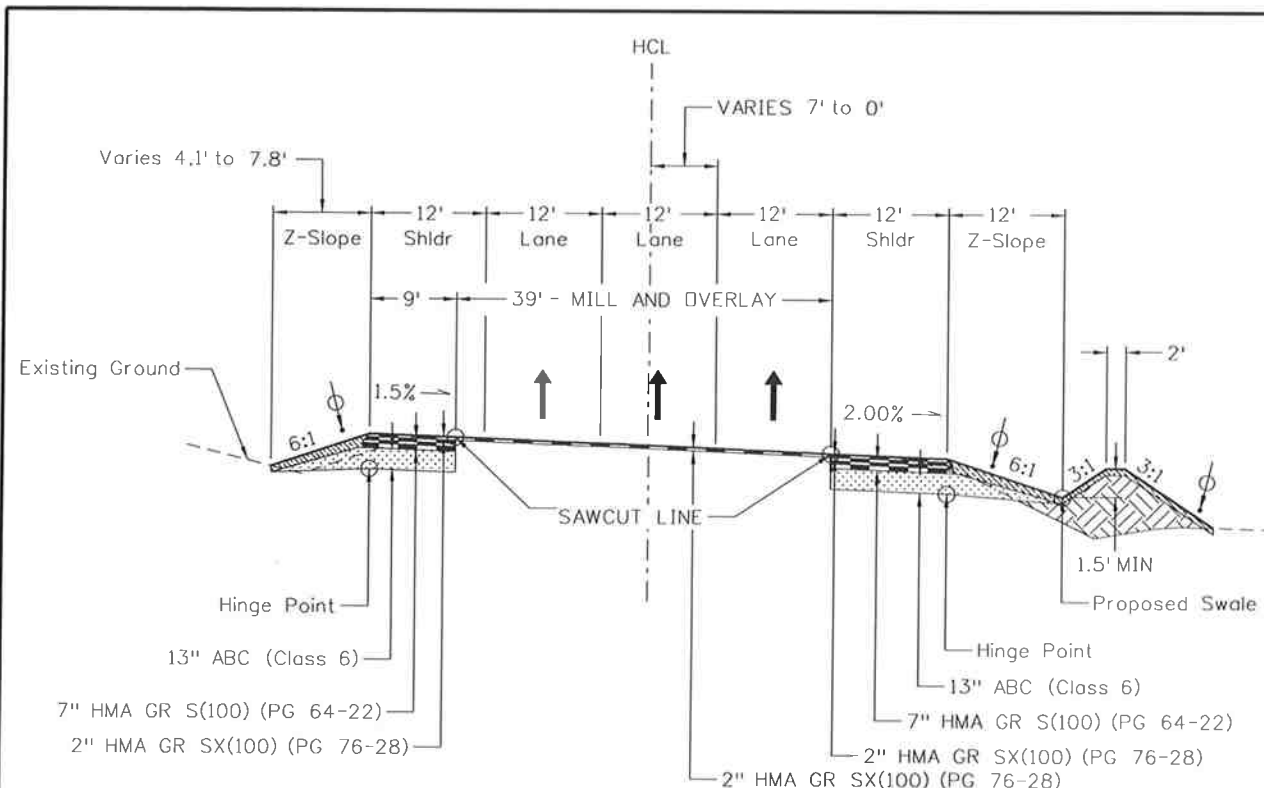
Rates of application shall be determined by the engineer at the time of application.
2. Water shall be used as a dust palliative where required. Locations shall be as directed by the Engineer. Included in cost of work.
3. It is estimated that a Field Office (Class 2) - 1 each and a Field Laboratory (Class 2) - 1 each will be required on this project.
4. It is estimated that Sanitary Facility - 1 each will be required on this project. Maintenance of sanitary facility shall include a cleaning at least twice a week. This cleaning will not be paid for separately but will be included in the cost of Sanitary Facility.
5. The following shall be furnished with each bituminous paver:
  - A ski type device at least 30 Feet in length.
  - Short ski or shoe.
  - 200 Feet of control line and stakes.

Any layer of bituminous pavement that is to have a succeeding layer placed thereon shall be completed full width before succeeding layer is placed.
6. Asphalt joints shall fall on lines, shoulders lines or median lines, except where stated in the plans.
7. Roadway smoothness for this project shall be HRI Category II.
8. The Contractor shall not park any vehicles or equipment in, or disturb any areas not approved by the Engineer.
9. Millings shall become property of the Contractor.
10. Prior to placing bituminous pavement, the paved surface shall be swept and cleaned. This will not be paid for separately, but shall be included in the cost of the Hot Mix Asphalt Pavement item.
11. The top mat shall be 2" thick and shall be completed to full width of the roadway, which will include the existing and widened highway.
12. Where cutting of asphalt is required such as where new pavement is to abut existing pavement, the cutting shall be done to a neat work line with a saw or cutting wheel as approved by the engineer. This will not be paid for separately, but shall be included in the Hot Mix Asphalt Pavement item.
13. The saw cut line shall be a minimum of 1 ft from edge of existing roadway.
14. Depth of moisture-density control for this project shall be as follows:
  - Full depth of all embankments:
  - Bases of cuts and fills 1.0 Feet.
  - Full depth of embankment sections used for ditches and channel changes.
15. Excavation required for compaction of bases of cuts and fills will be considered as subsidiary to that operation and will not be paid for separately.
16. The minimum thickness of topsoil shall be 4 Inches. It is estimated that 5,374 Cu. Yds. will be required based on the average thickness of 4 Inches.
17. Sulfate exposure on this project is Class 2.
18. It is estimated that 12,700 SF Removal of pavement markings will be required. This corresponds to left edge line, lane lines, cross walks and stop bars.
19. It is estimated that 23,561 LF of Sawing Asphalt Material (10 In) will be required for this project.

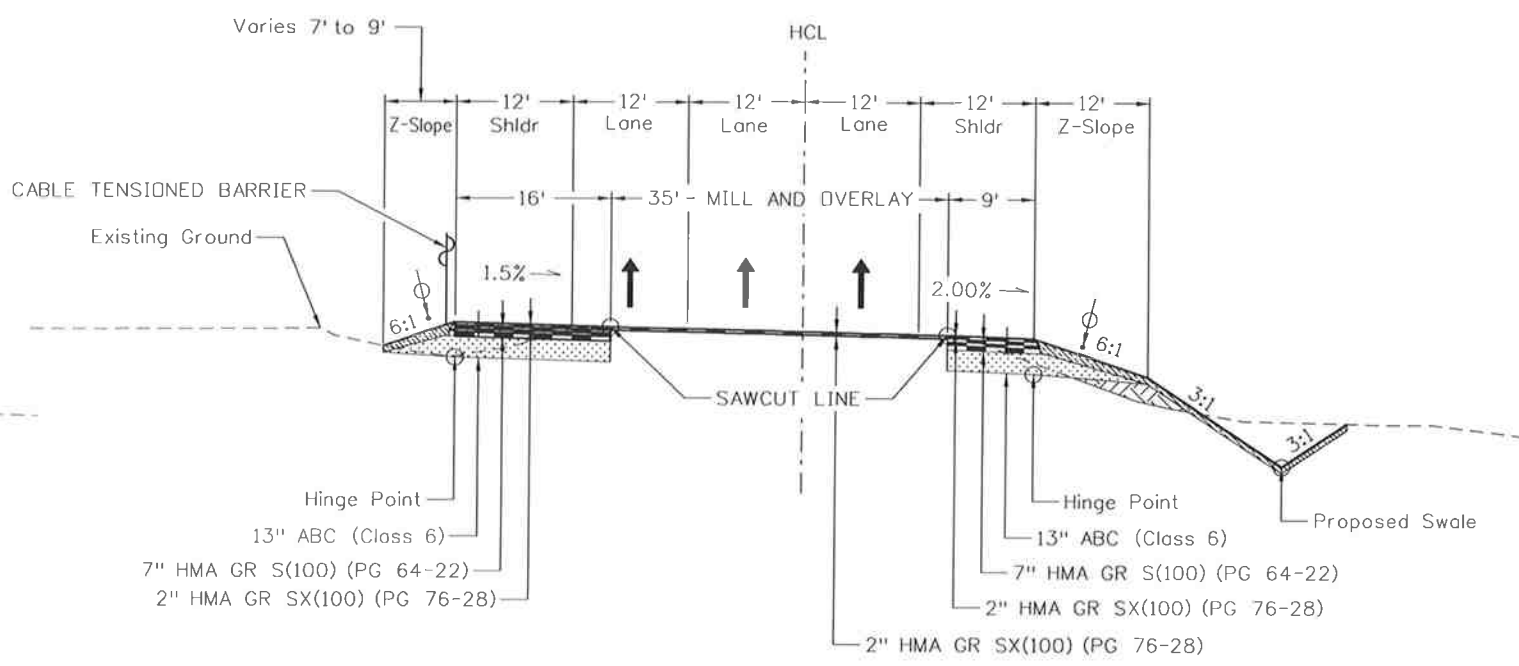
20. It is estimated that 46 EA Removal of ground signs will be required for this project.
21. It is estimated that 29,000 LF of Rumble Strip will be required for this project.
22. It is estimated that 1 LS Clearing and Grubbing will be required for this project.
23. It is estimated that 1 LS Construction Surveying will be required for this project.
24. It is estimated that 1 LS Public Information Services will be required for this project.
25. The Contractor shall be responsible to maintain drainage during work.
26. Any rework of materials shall be completed at the Contractor's expense.
27. The Contractor shall protect all existing survey monumentation, designated to remain, from damage during construction operations. Any monuments disturbed by the Contractor that are not designated for relocation, shall be reset at the Contractor's expense Each bench mark to be protected by the contractor if damaged is estimated at \$50,000 each. The Contractor shall provide a temporary fence around each bench mark. The Contractor and Engineer shall note those monuments in the field prior to construction. See Tabulation of Survey.
28. All material generated within the project limits shall be removed from the project site at no cost to the project unless specified by the plans.
29. Utility lines as shown on the plan sheets are plotted from the best available information. However, J. F. Sato and Associates makes no guarantee as to the accuracy and completeness of the utilities. It is the Contractor's responsibility to field-verify the location of all utilities prior to the start of construction. The Contractor must call the Utility Notification Center Colorado at least two (2) business days, not including the actual day of notice, before any excavation to request the exact field locations of the utilities.
30. The Contractor shall repair or replace at his expense any existing signs damaged by the Contractor.
31. The Contractor shall adhere to all load limit requirements for all roads upon which materials are delivered to the project.
32. The Contractor shall limit construction activities to those areas within the limits of disturbance and toes of slopes as shown on the plans and cross sections. The Contractor at his own expense shall restore any disturbance beyond these limits to original condition. Construction activities, in addition to normal construction procedures, shall include the parking of vehicles or equipment, disposal of litter, haul roads and any other action, which would alter existing conditions.
33. It is estimated that 1,000 hours will be required for potholing. The contractor will be responsible for contacting and coordinating with the appropriate utility representatives to be onsite during potholing, and shall likewise be responsible for determining the type and location of underground utilities as necessary to avoid damage thereto.
34. Compaction shall be AASHTO T-99 for Unclassified Excavation (CIP) and AASHTO T-180 for Aggregate Base Course (Class 6).
35. This project will be subject to the City of Pueblo Use Tax.
36. It is estimated that 6 FASTER signs will be required for this project. These signs are to be placed at all entries into the project 100 ft before the first construction sign. These signs have not been shown in the construction plans.
37. Pavement sections are based on native R-values of existing subgrade materials.

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Print Date: 10/9/2014		<b>Sheet Revisions</b>	Colorado Department of Transportation 902 Erie Avenue Pueblo, CO 81001 Phone: 719-562-5509 FAX: 719-546-5702 Region 2 <span style="float: right;">DTD</span>	<b>As Constructed</b>	US 50 WEST PURCELL BLVD. TO WILLS BLVD. GENERAL NOTES	Project No./Code		
File Name: 19056DES_GenlNotes01.dgn		Date:		Comments	Init.	No Revisions:	Designer: GV	Structure
Horiz. Scale: 1:1      Vert. Scale: As Noted						Revised:	Detailer: GV	Numbers
J. F. SATO AND ASSOCIATES 5898 South Ropp Street Littleton, Colorado 80120				Void:	Subset: GN	Subset Sheets: GN1 of 1		
						FSA 0503-081		
						19751		
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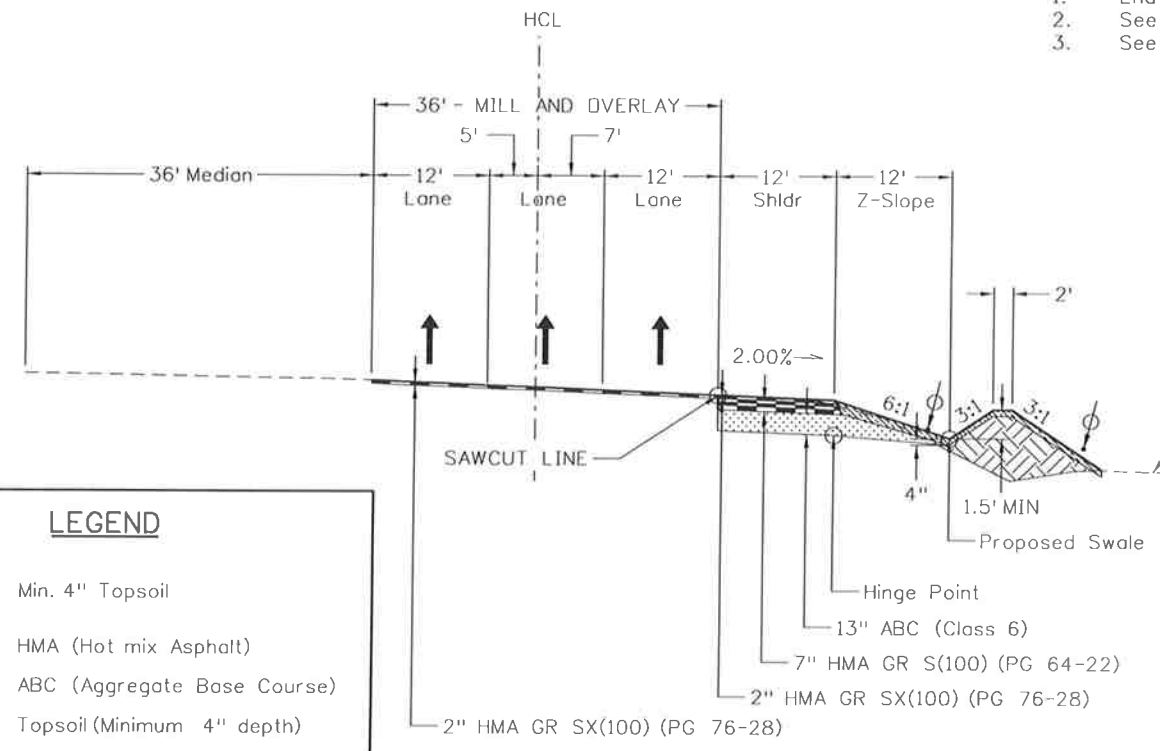


**U.S. 50 TYPICAL SECTION**  
STA 105+59.43 TO STA 113+58.81

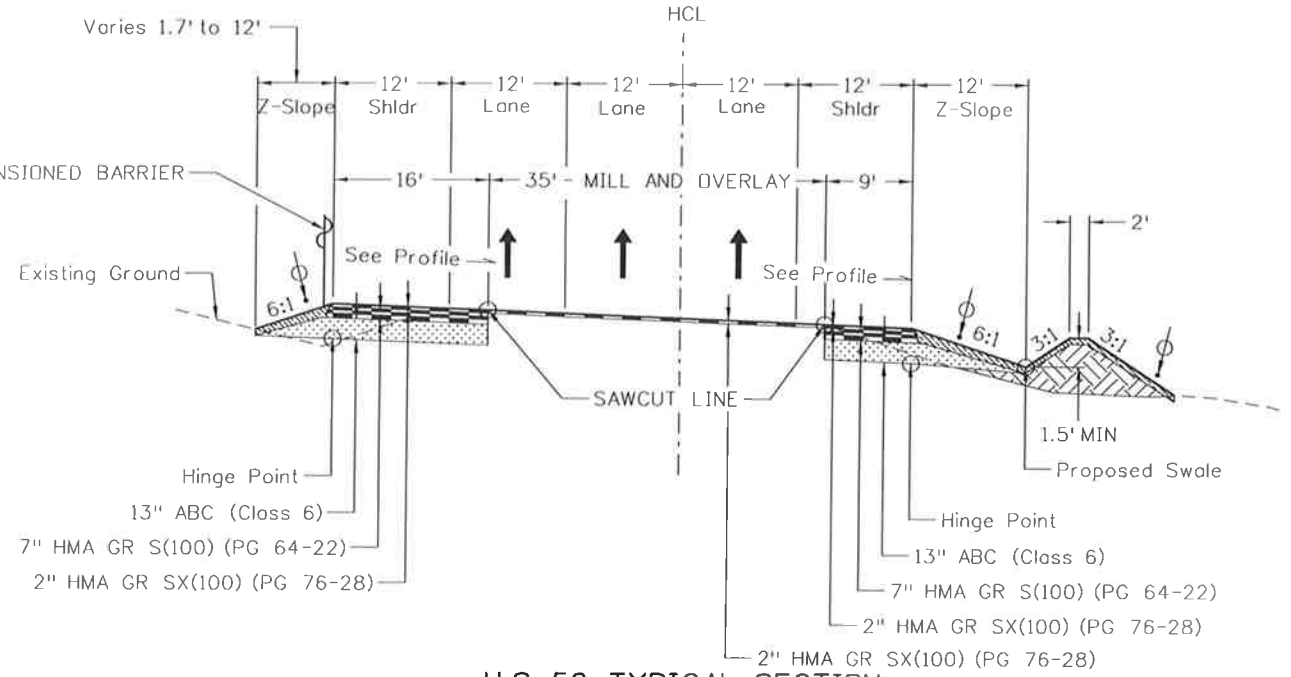


**U.S. 50 TYPICAL SECTION**  
STA 140+00 TO STA 158+00

- Note:**
1. End Cable Tension Barrier, STA 185+00.00
  2. See Roadway Plan and Profile for Super Elevation information.
  3. See TYP06 for Pavement and Safety Edge Detail.



**U.S. 50 TYPICAL SECTION**  
STA 100+17.11 TO STA 105+59.43



**U.S. 50 TYPICAL SECTION**  
STA 158+00.00 TO STA 184+28.69

**LEGEND**

	Min. 4" Topsoil
	HMA (Hot mix Asphalt)
	ABC (Aggregate Base Course)
	Topsoil (Minimum 4" depth)
	Embankment

Print Date: 10/9/2014  
 File Name: 19056DES\_Typ1Sect01.dgn  
 Horiz. Scale: 1:20 Vert. Scale: As Noted

**JFS&A**  
 J. F. SATO AND ASSOCIATES  
 5898 South Rapp Street  
 Littleton, Colorado 80120

Sheet Revisions		
Date:	Comments	Init.

**Colorado Department of Transportation**

902 Erie Avenue  
 Pueblo, CO 81001  
 Phone: 719-562-5509 FAX: 719-546-5702

**Region 2** **DTD**

**As Constructed**

No Revisions:  
 Revised:  
 Void:

**US 50 WEST**  
**PURCELL BLVD. TO WILLS BLVD.**  
**TYPICAL SECTIONS**

Designer: ACE  
 Detailer: ACE  
 Subset: TYP

Structure Numbers  
 Subset Sheets: TYP1 of 6

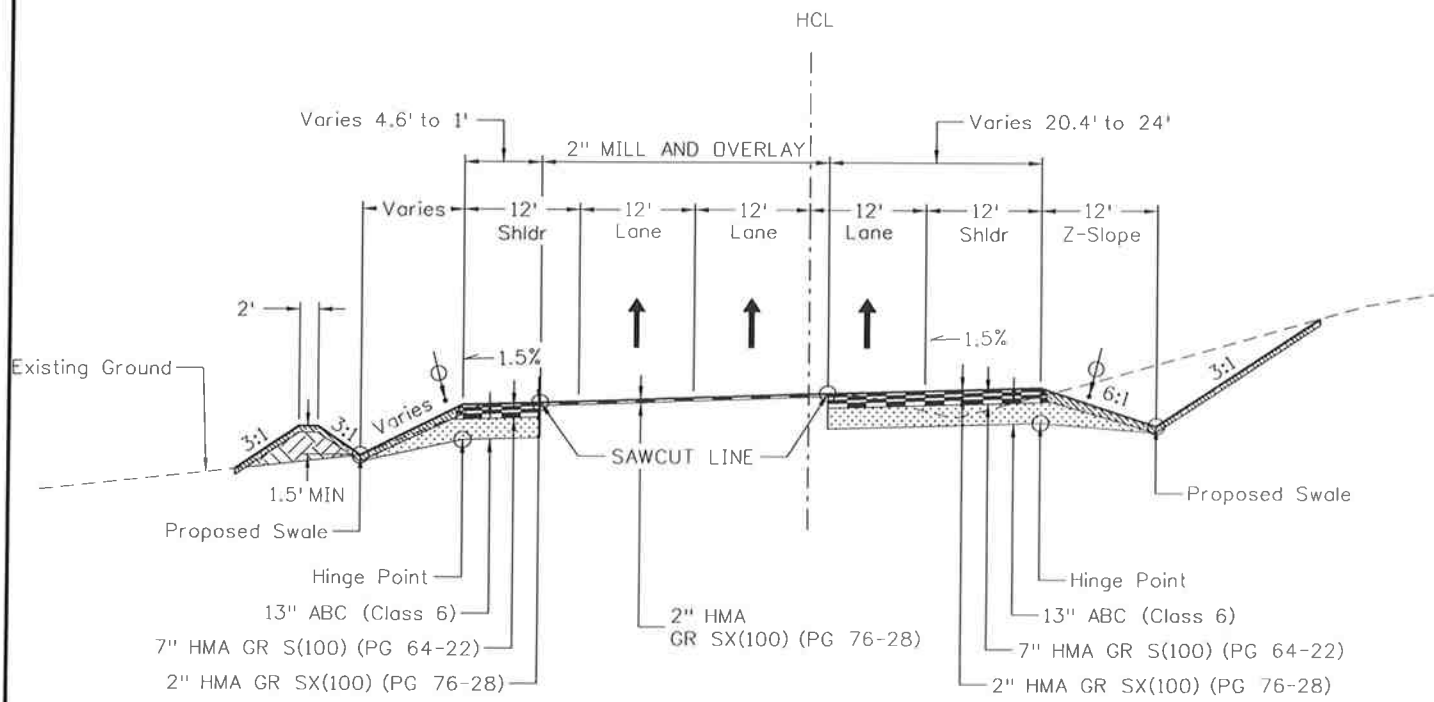
**Project No./Code**

FSA 0503-081

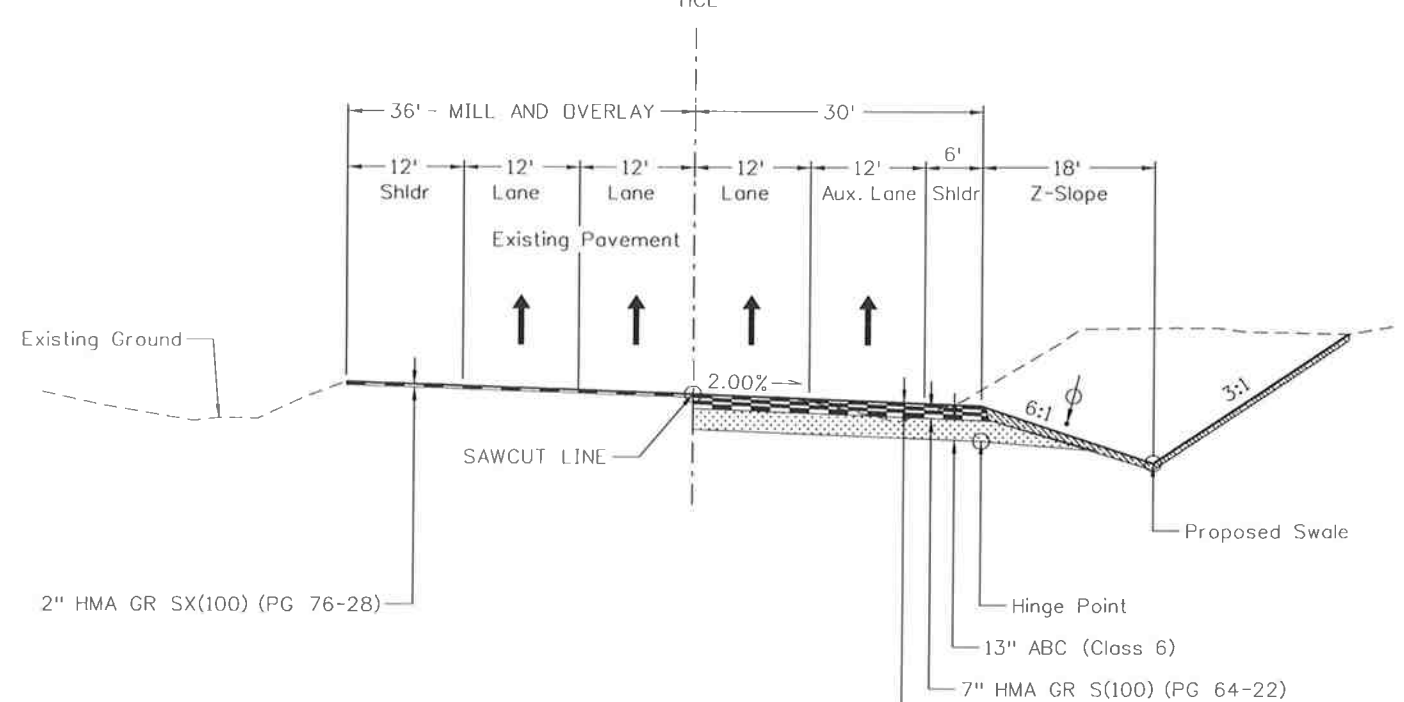
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Sheet Number **4**

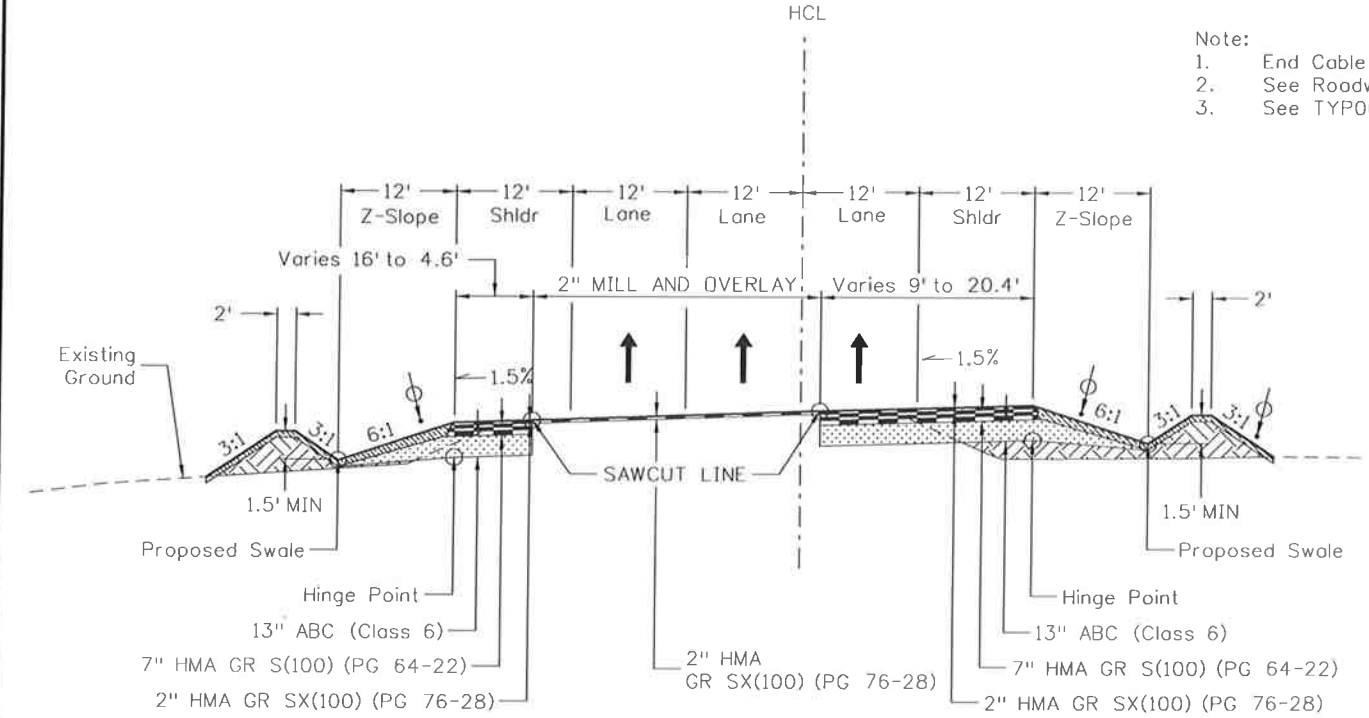
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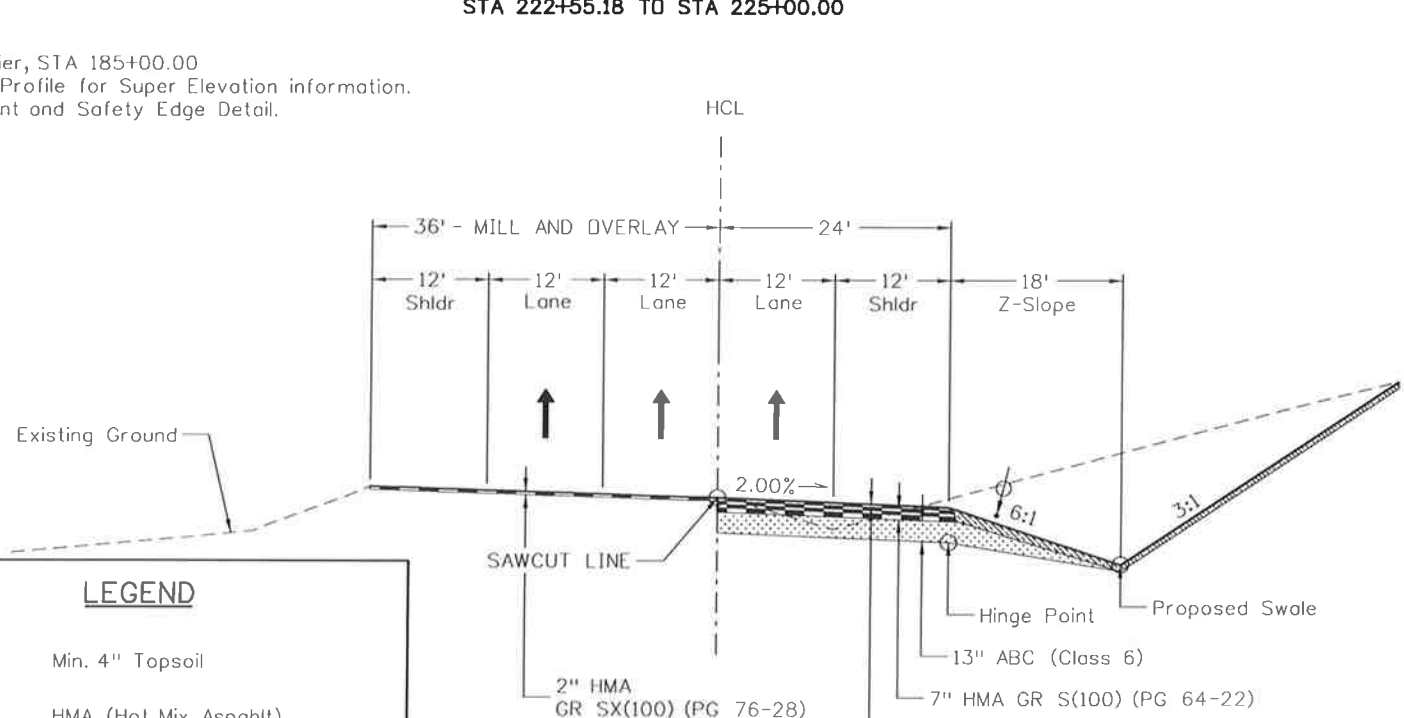
**U.S. 50 TYPICAL SECTION**  
STA 192+00 TO STA 197+50.00



**U.S. 50 TYPICAL SECTION**  
STA 206+43.45 TO STA 211+86.31  
STA 222+55.18 TO STA 225+00.00



**U.S. 50 TYPICAL SECTION**  
STA 184+28.69 TO STA 192+00.00



**U.S. 50 TYPICAL SECTION**  
STA 197+50.00 TO STA 206+43.45

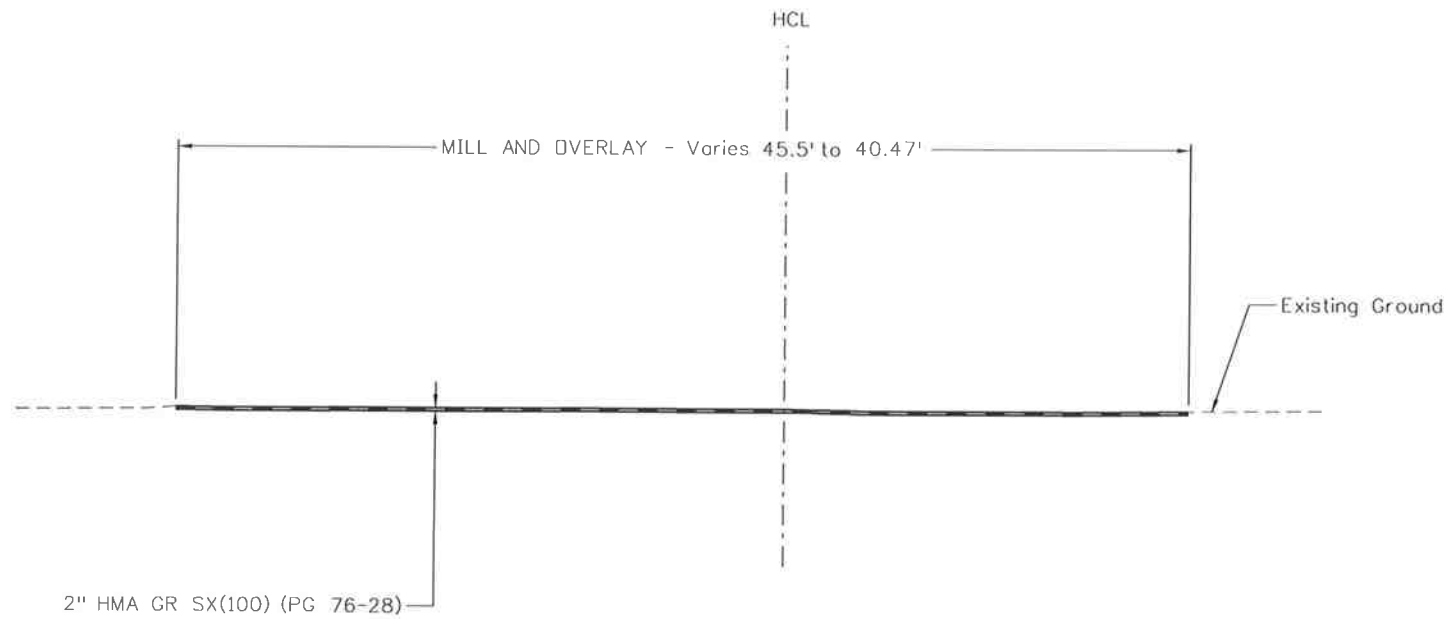
- Note:
1. End Cable Tension Barrier, STA 185+00.00
  2. See Roadway Plan and Profile for Super Elevation information.
  3. See TYP06 for Pavement and Safety Edge Detail.

**LEGEND**

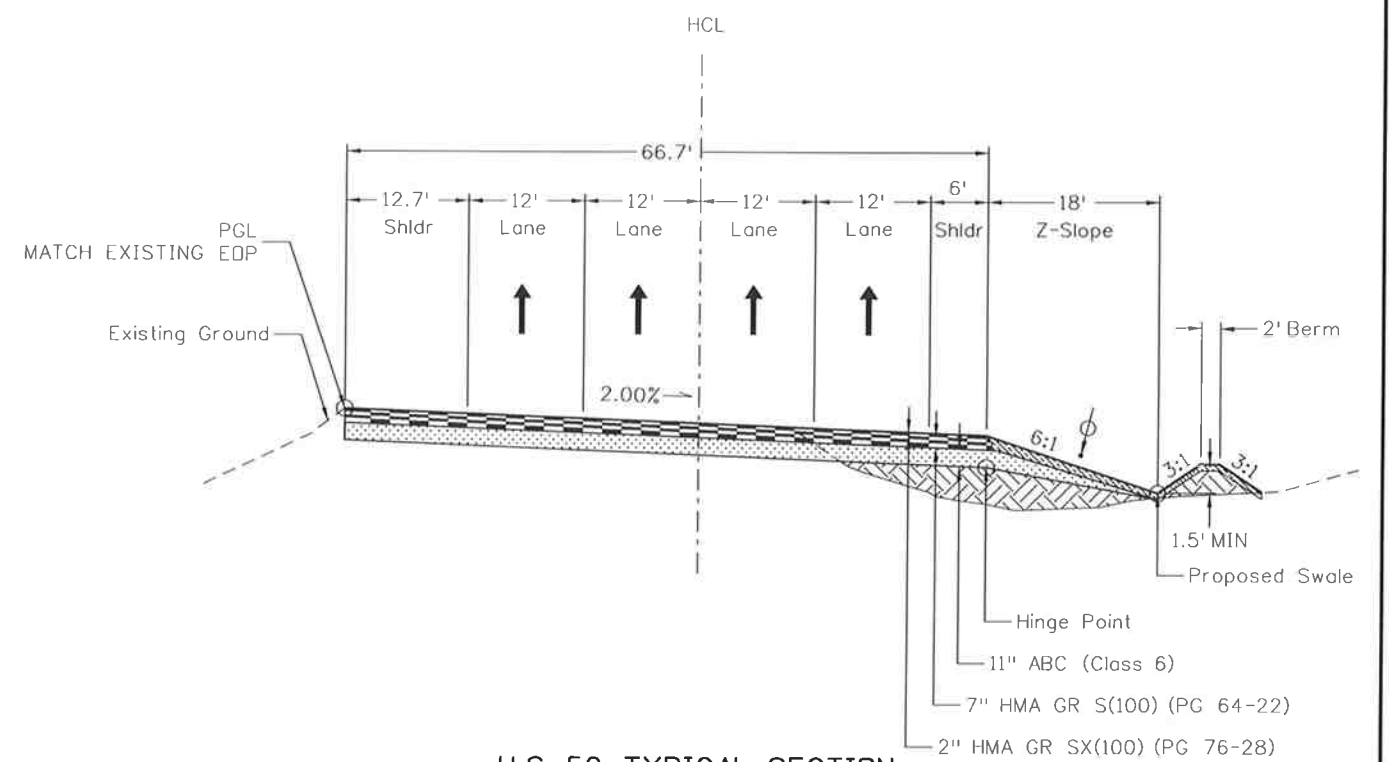
- Min. 4" Topsoil
- HMA (Hot Mix Asphalt)
- ABC (Aggregate Base Course)
- Topsoil (Minimum 4" depth)
- Embankment

Print Date: 10/9/2014		<b>Sheet Revisions</b>		Colorado Department of Transportation		As Constructed		US 50 WEST PURCELL BLVD. TO WILLS BLVD. TYPICAL SECTIONS		Project No./Code	
File Name: I9056DES_TypSect02.dgn		Date:	Comments	Init.	902 Erie Avenue Pueblo, CO 81001 Phone: 719-562-5509 FAX: 719-546-5702		No Revisions:		FSA 0503-081		
Horiz. Scale: 1:20 Vert. Scale: As Noted					Region 2 DTD		Revised:		19751		
J.F. SATO AND ASSOCIATES 5898 South Ropp Street Littleton, Colorado 80120							Void:		Sheet Number 5		
							Designer: ACE		Structure Numbers		
							Detailer: ACE		Subset Sheets: TYP2of 6		
							Subset: TYP				

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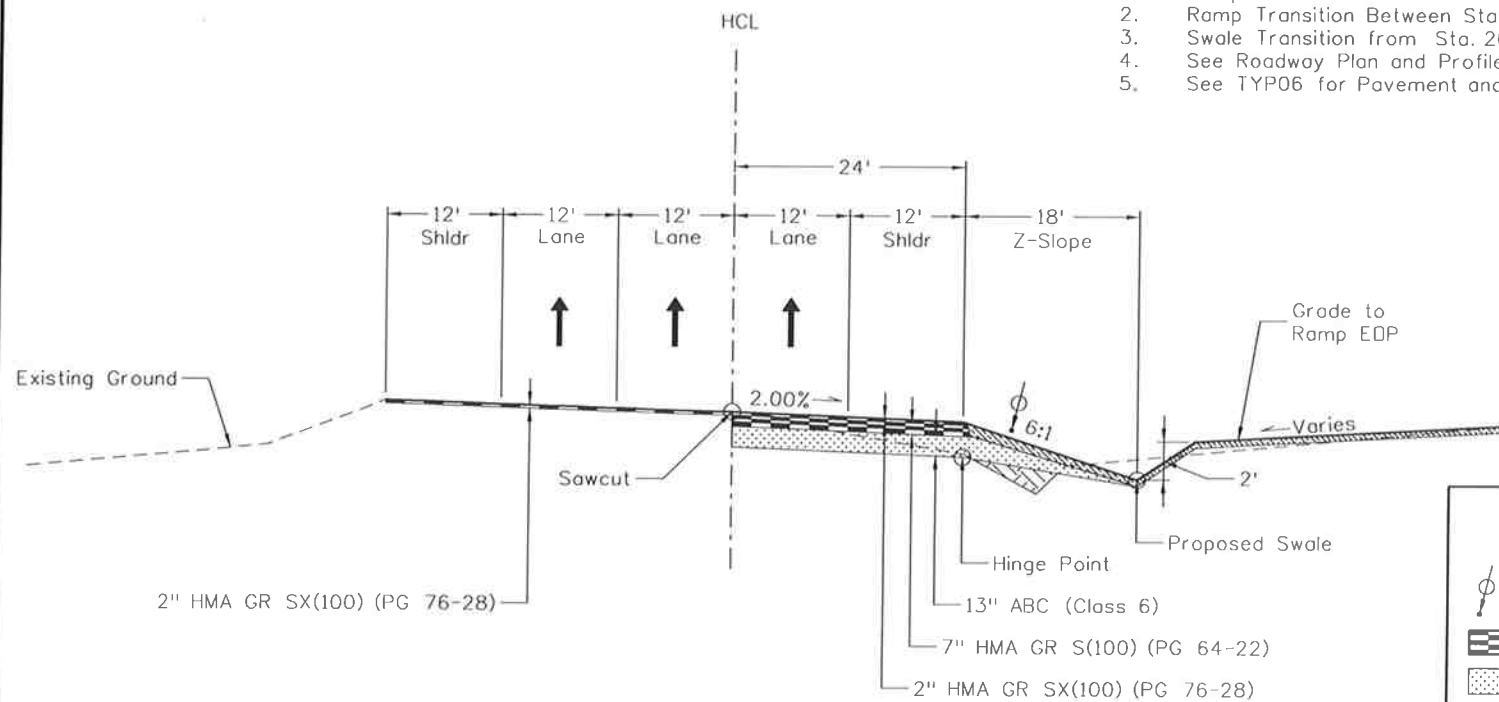


**U.S. 50 TYPICAL SECTION**  
STA 217+43.88 TO STA 218+28.88

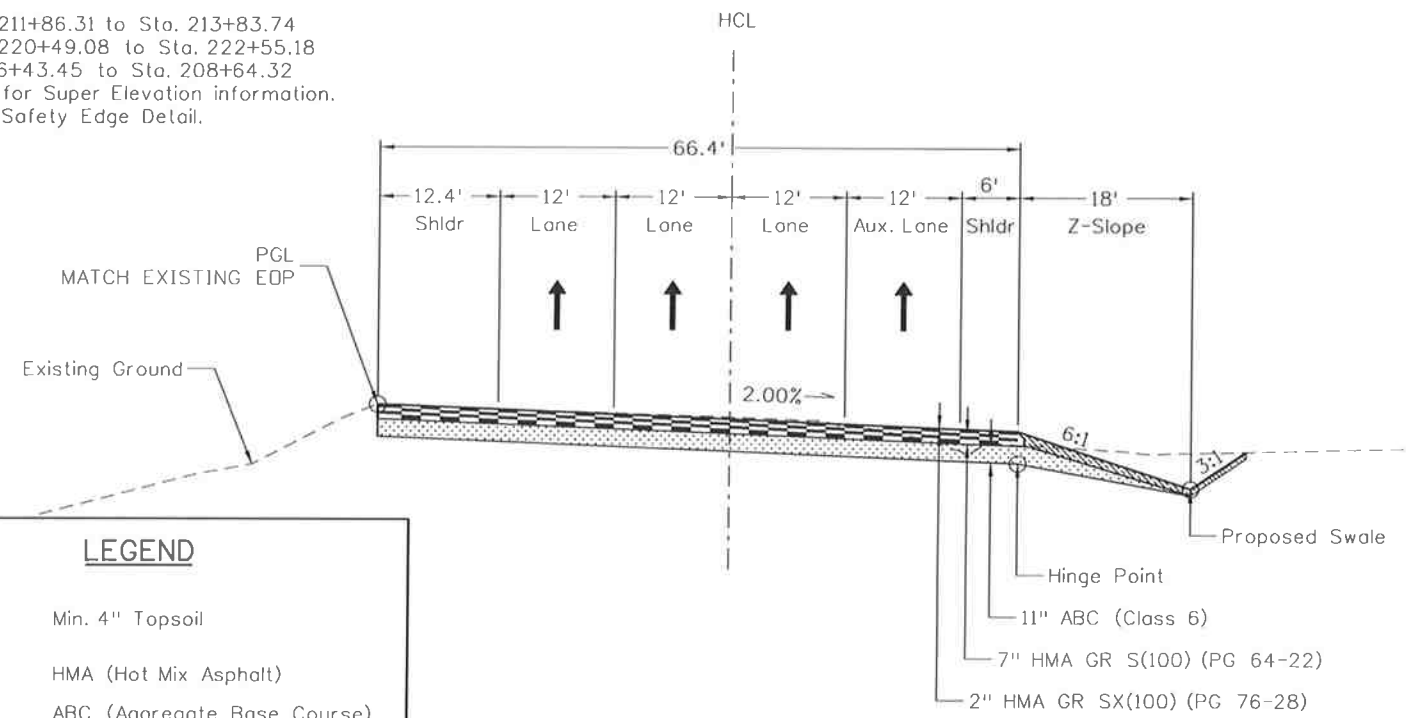


**U.S. 50 TYPICAL SECTION**  
STA 226+40.00 TO STA 230+40.00

- Note:
1. Ramp Transition Between Sta. 211+86.31 to Sta. 213+83.74
  2. Ramp Transition Between Sta. 220+49.08 to Sta. 222+55.18
  3. Swale Transition from Sta. 206+43.45 to Sta. 208+64.32
  4. See Roadway Plan and Profile for Super Elevation information.
  5. See TYP06 for Pavement and Safety Edge Detail.



**U.S. 50 TYPICAL SECTION**  
STA 211+86.31 TO STA 217+43.88  
STA 218+28.88 TO STA 222+55.18



**U.S. 50 TYPICAL SECTION**  
STA 225+00.00 TO STA 226+40.00

**LEGEND**

- Min. 4" Topsoil
- HMA (Hot Mix Asphalt)
- ABC (Aggregate Base Course)
- Topsoil (Minimum 4" depth)
- Embankment

Print Date: 10/9/2014  
 File Name: 19056DES\_Typ1Sect03.dgn  
 Horiz. Scale: 1:20 Vert. Scale: As Noted

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 J. F. SATO AND ASSOCIATES  
 5898 South Rapp Street  
 Littleton, Colorado 80120

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Region 2 DTD

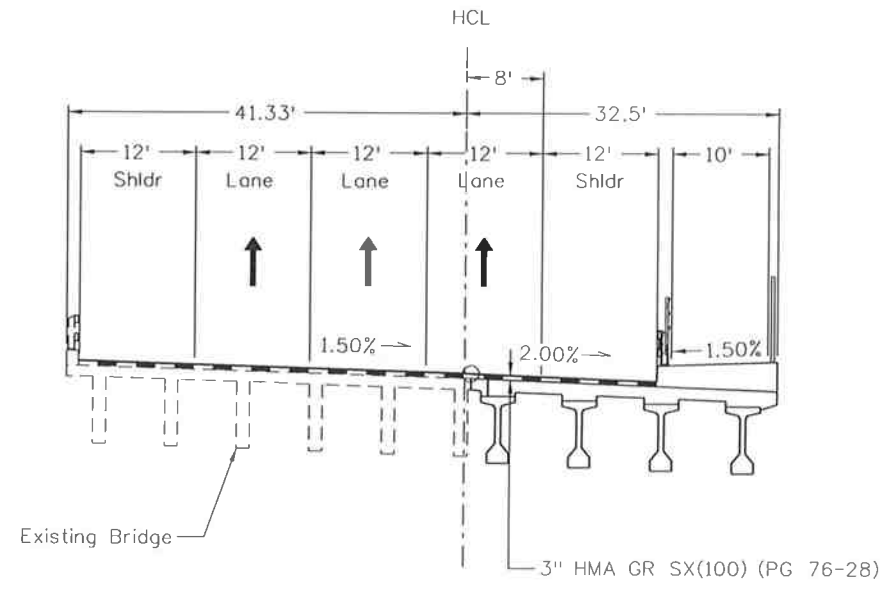
As Constructed	No Revisions:
Revised:	
Void:	

US 50 WEST PURCELL BLVD. TO WILLS BLVD. TYPICAL SECTIONS		
Designer:	ACE	Structure Numbers
Detailer:	ACE	
Subset:	TYP	Subset Sheets: TYP3of 6

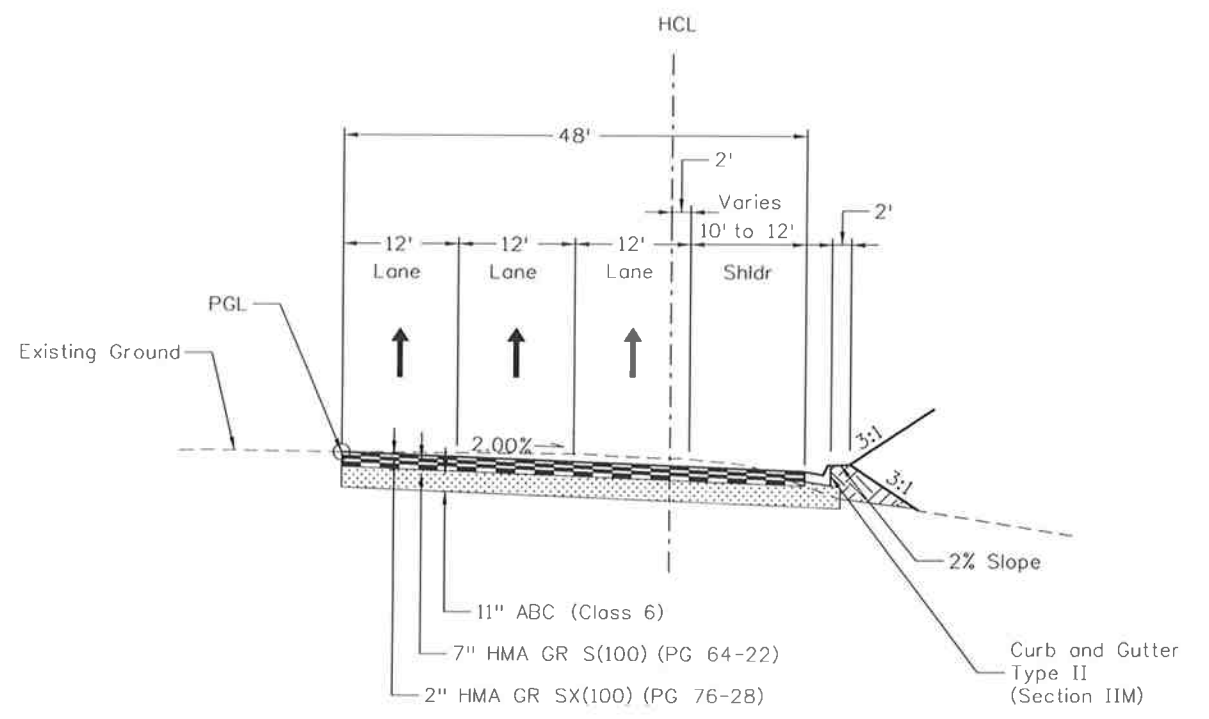
Project No./Code	FSA 0503-081
	19751
Sheet Number	6

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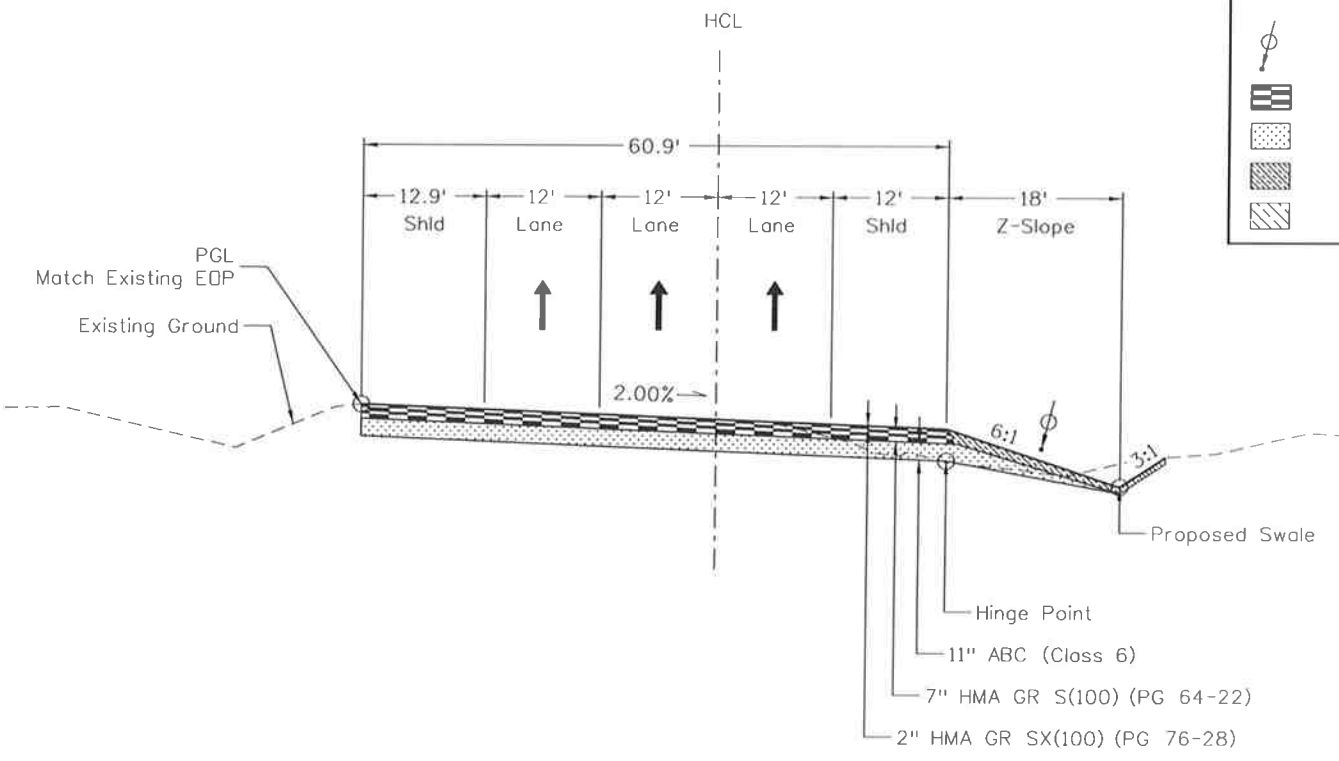


**U.S. 50 TYPICAL SECTION**  
 STA 242+48.26 TO STA 245+11.38  
 SEE BRIDGE PLANS FOR DETAILS



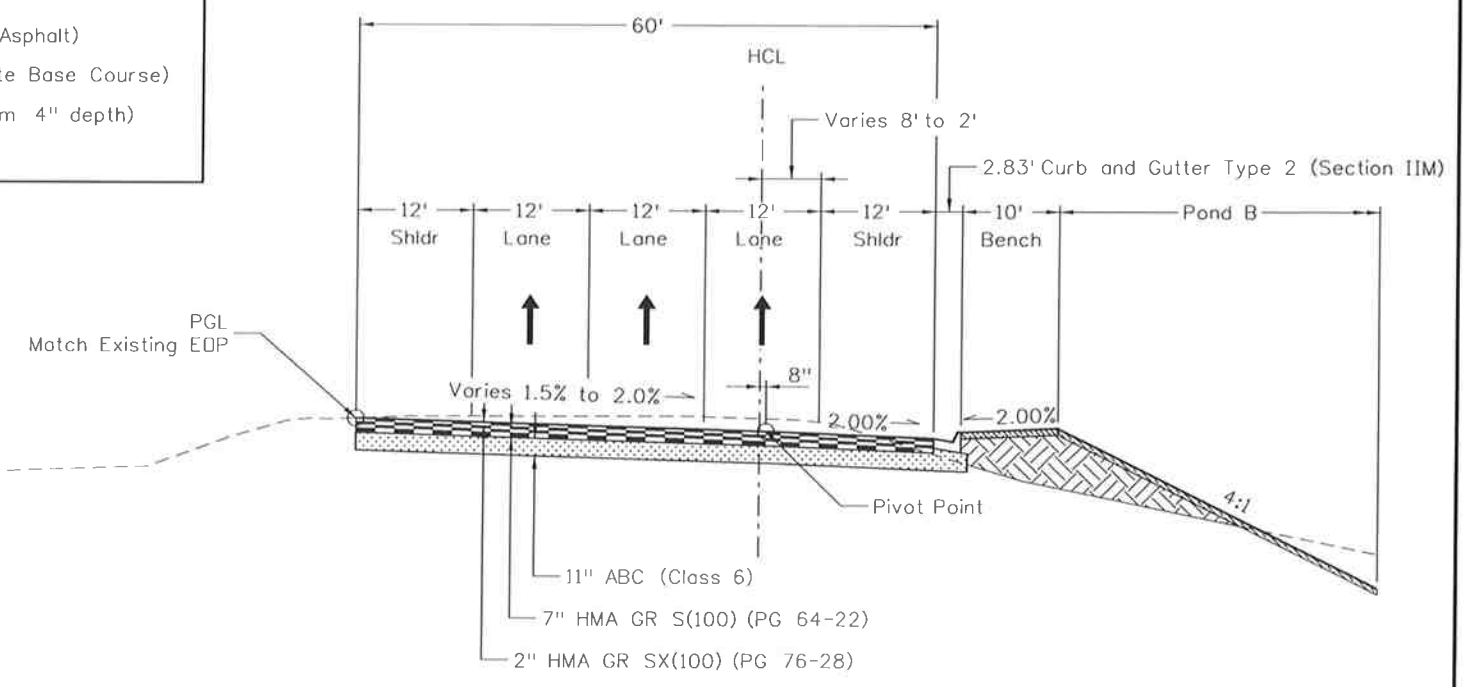
**U.S. 50 TYPICAL SECTION**  
 STA 249+30.27 TO STA 258+28.10

LEGEND	
	Min. 4" Topsoil
	HMA (Hot Mix Asphalt)
	ABC (Aggregate Base Course)
	Topsoil (Minimum 4" depth)
	Embankment



**U.S. 50 TYPICAL SECTION**  
 \* STA 230+40.00 TO STA 242+48.26

Note:  
 \* For End Anchorage (Flared), Guardrail Type 3 and Transition Type 3G station limits (Bridge Approach), see Roadway Plan and Profile.



**U.S. 50 TYPICAL SECTION**  
 STA 245+11.38 TO STA 249+30.27

Print Date: 10/9/2014  
 File Name: I9056DES\_TypIsect04.dgn  
 Horiz. Scale: 1:20 Vert. Scale: As Noted

Sheet Revisions		
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 Pueblo, CO 81001  
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**Region 2** **DTD**

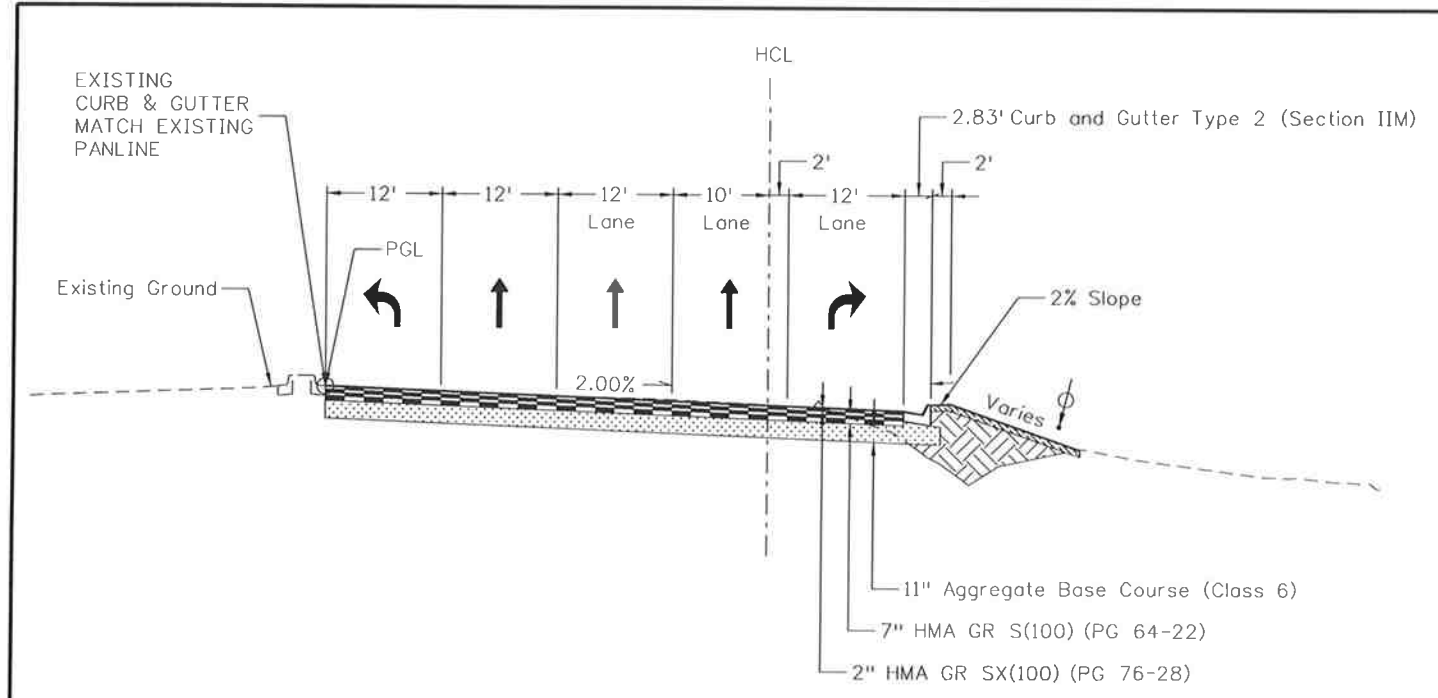
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No Revisions:
Revised:
Void:

US 50 WEST PURCELL BLVD. TO WILLS BLVD. TYPICAL SECTIONS		
Designer:	ACE	Structure Numbers
Detailer:	ACE	
Subset:	TYP	Subset Sheets: TYP4of 6

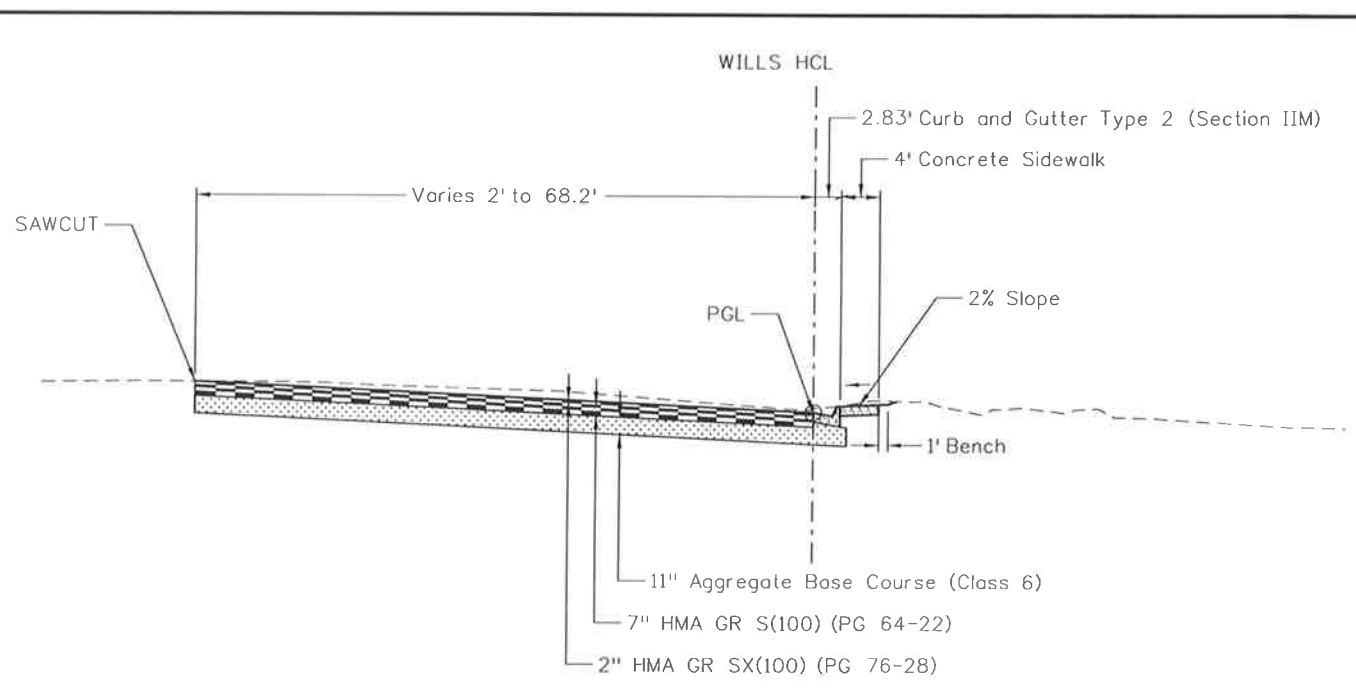
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FSA 0503-081
19751
Sheet Number 7

**JFS&A** J.F. SATO AND ASSOCIATES  
 5898 South Ropp Street  
 Littleton, Colorado 80120

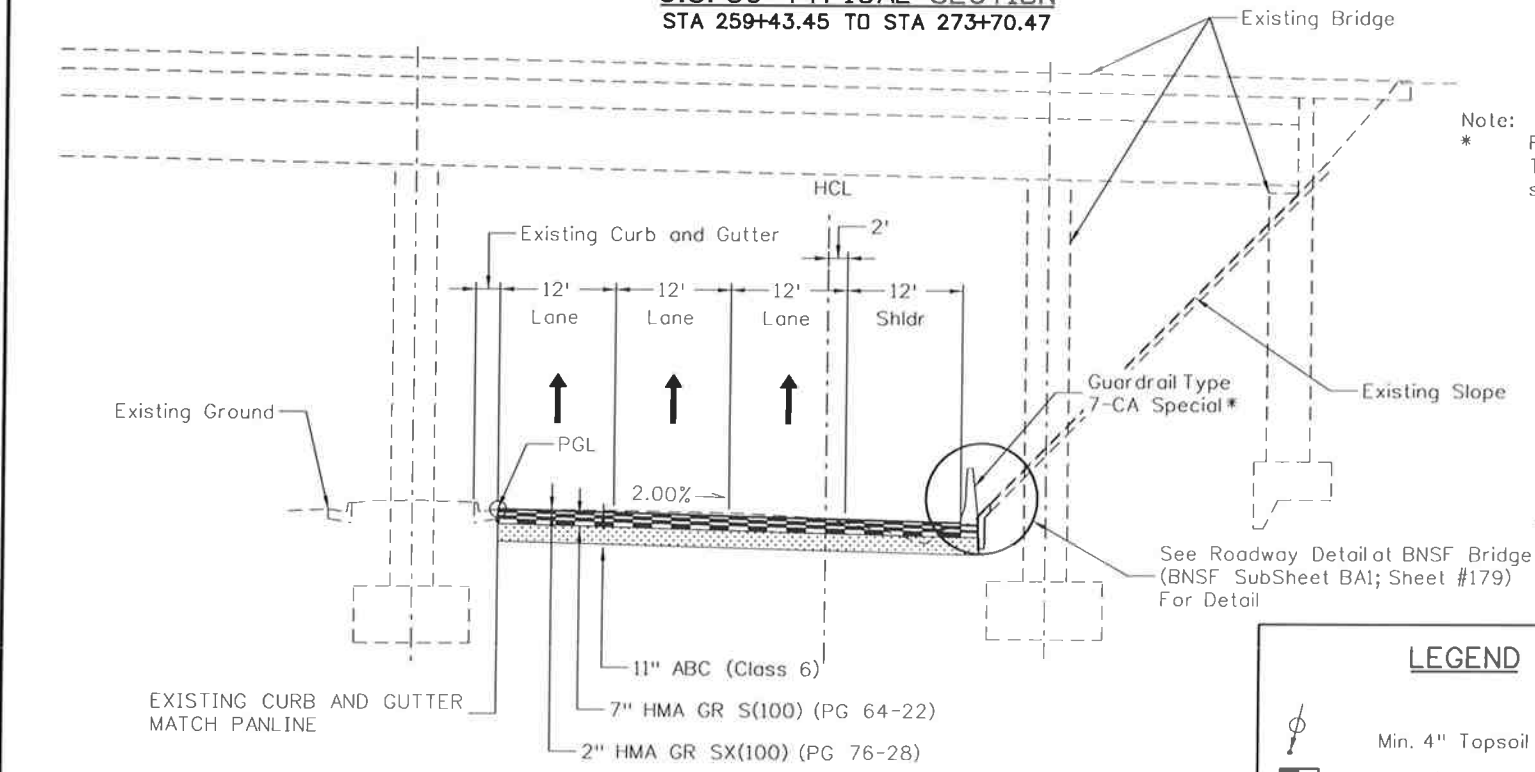
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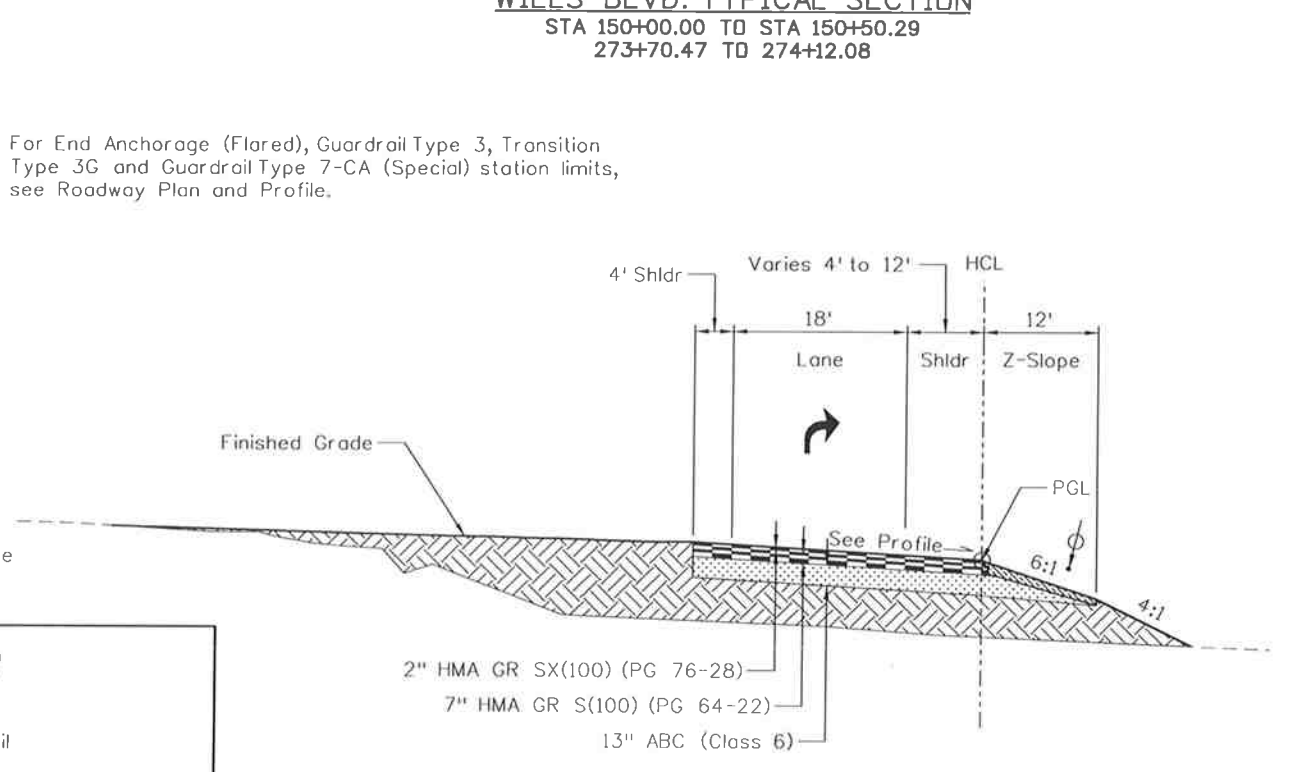
**U.S. 50 TYPICAL SECTION**  
STA 259+43.45 TO STA 273+70.47



**WILLS BLVD. TYPICAL SECTION**  
STA 150+00.00 TO STA 150+50.29  
273+70.47 TO STA 274+12.08



**U.S. 50 TYPICAL SECTION**  
RAILROAD BRIDGE  
STA 258+28.10 TO STA 259+43.45



**PURCELL BLVD TYPICAL SECTION**  
STA 1+00.00 TO STA 4+72.49  
US 50 STA 97+13.10 TO STA 100+17.11

Note:  
\* For End Anchorage (Flared), Guardrail Type 3, Transition Type 3G and Guardrail Type 7-CA (Special) station limits, see Roadway Plan and Profile.

**LEGEND**

- Min. 4" Topsoil
- HMA (Hot Mix Asphalt)
- ABC (Aggregate Base Course)
- Topsoil (Minimum 4" depth)
- Embankment

Print Date: 10/9/2014  
File Name: 19056DES\_TypSec105.dgn  
Horiz. Scale: 1:20 Vert. Scale: As Noted

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5898 South Rapp Street  
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Date:	Comments	Init.

Colorado Department of Transportation

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Pueblo, CO 81001  
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Region 2 DTD

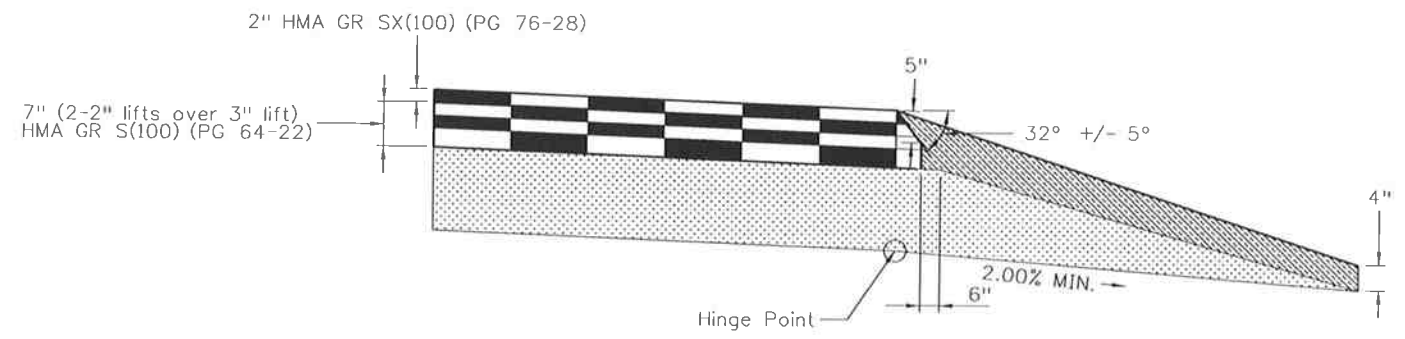
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No Revisions:
Revised:
Void:

<b>US 50 WEST MCCULLOCH &amp; PURCELL BLVD. TYPICAL SECTIONS</b>	
Designer: ACE	Structure Numbers
Detailer: ACE	
Subset: TYP	Subset Sheets: TYP5of 6

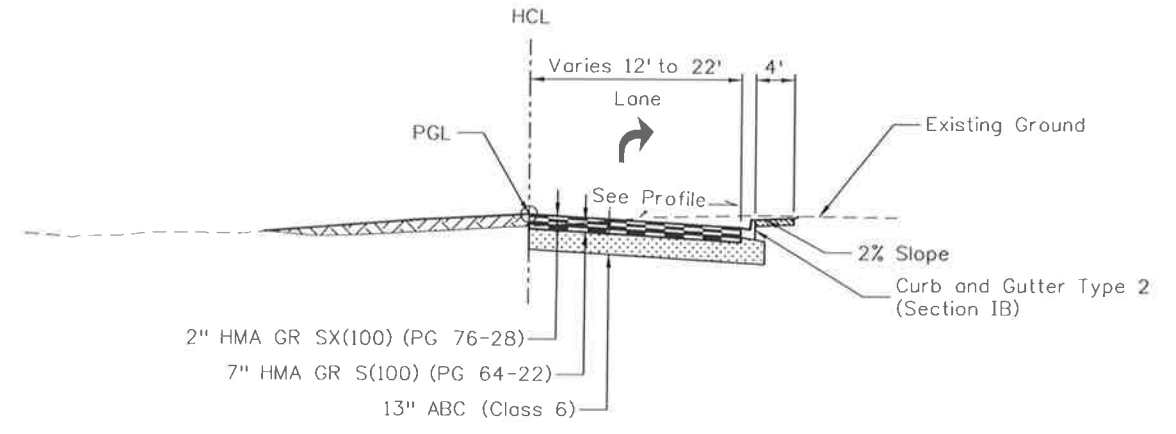
<b>Project No./Code</b>
FSA 0503-081
19751
Sheet Number 8

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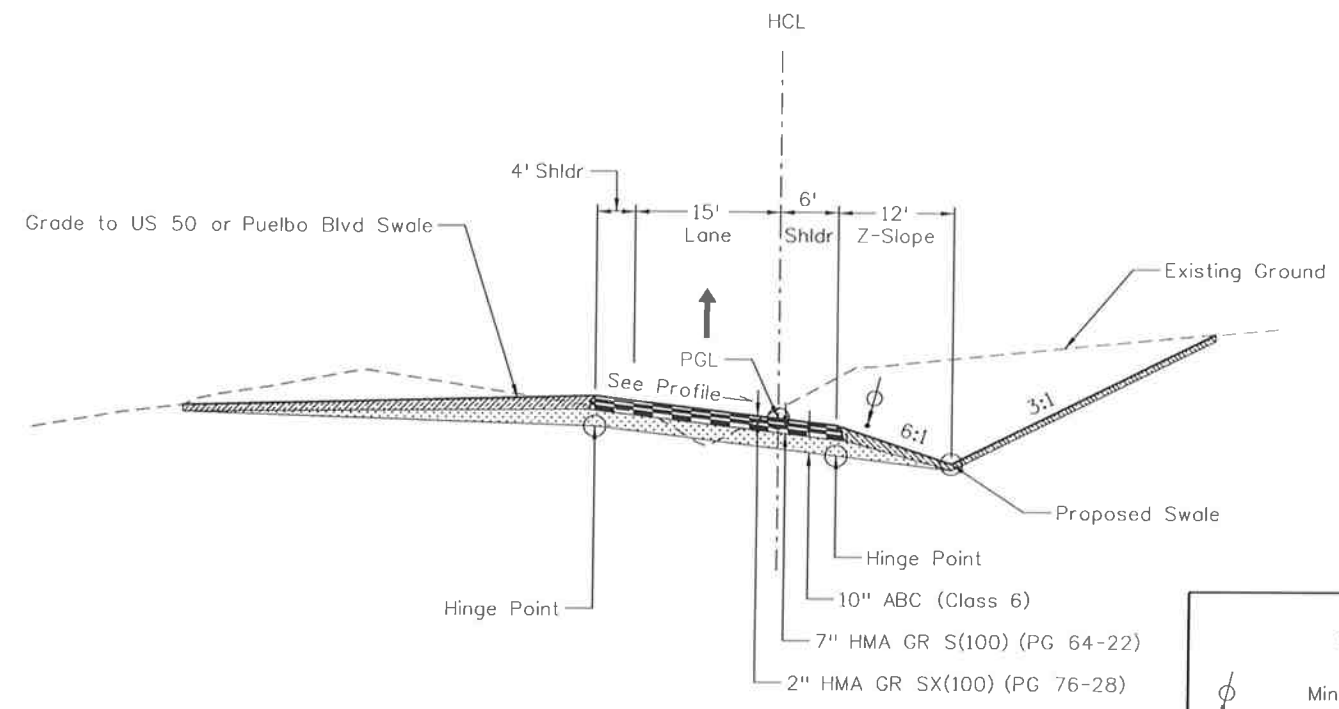




**SAFETY EDGE DETAIL (TYP.)**



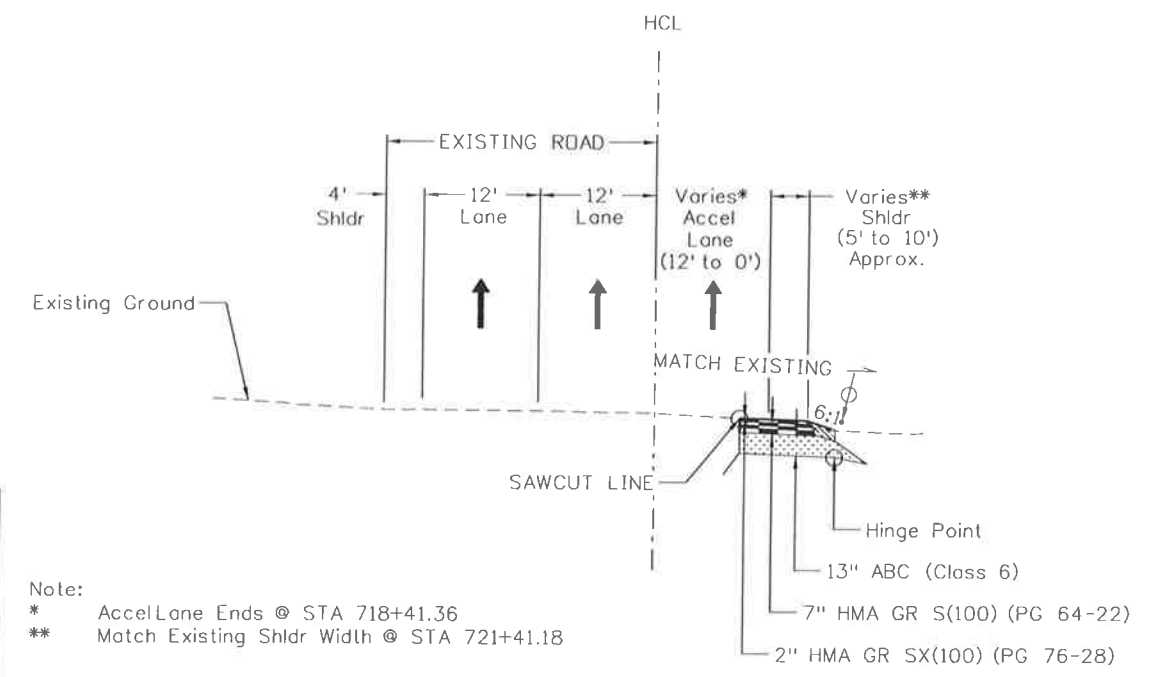
**MCCULLOCH BLVD TYPICAL SECTION**  
STA 700+37.13 TO STA 704+71.88



**RAMP TYPICAL SECTION**  
STA 402+91.78 TO STA 407+00.00  
STA 502+43.30 TO STA 506+00.00  
US 50 STA 211+86.31 TO STA 222+55.18

**LEGEND**

- Min. 4" Topsoil
- HMA (Hot Mix Asphalt)
- ABC (Aggregate Base Course)
- Topsoil (Minimum 4" depth)
- Embankment



**U.S. 50 AT MCCULLOCH BLVD**  
**ACCELERATION LANE**  
STA 716+08.90 TO STA 721+41.48

Note:  
\* Accel Lane Ends @ STA 718+41.36  
\*\* Match Existing Shldr Width @ STA 721+41.18

Print Date: 10/9/2014  
File Name: 19056DES\_TypSect06.dgn  
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Date:	Comments	Init.

Colorado Department of Transportation

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Region 2 DTD

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US 50 WEST MCCULLOCH & PURCELL BLVD. TYPICAL SECTIONS	
Designer: ACE	Structure Numbers
Detailer: ACE	
Subset: TYP	Subset Sheets: TYP6of 6


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INDEX			CONTRACT ITEM NO.	CONTRACT ITEM	UNIT	ROADWAY										STRUCTURE K-18-CW		PROJECT TOTALS				
BOOK	PAGE	SHEET				PLAN	AS CONST.											PLAN	AS CONST.	PLAN	AS CONST.	
			201-00000	Clearing and Grubbing	L S	1														1		
			202-00010	Removal of Tree	EACH	2														2		
			202-00019	Removal of Inlet	EACH	6														6		
			202-00026	Removal of Slope and Ditch Paving	SY	519														519		
			202-00027	Removal of Riprap	SY	11														11		
			202-00035	Removal of Pipe	LF	603														603		
			202-00037	Removal of End Section	EACH	27														27		
			202-00040	Removal of Electrical Conduit	LF	105														105		
			202-00090	Removal of Delineator	EACH	108														108		
			202-00200	Removal of Sidewalk	SY	576														576		
			202-00203	Removal of Curb and Gutter	LF	900														900		
			202-00206	Removal of Concrete Curb Ramp	SY	26														26		
			202-00220	Removal of Asphalt Mat	SY	31,479														31,479		
			202-00240	Removal of Asphalt Mat (Planing)	SY	51,818														51,818		
			202-00250	Removal of Pavement Marking	SF	12,700														12,700		
			202-00410	Removal of Mat From Bridge	SY											844				844		
			202-00495	Removal of Portions of Present Structure	L S											1				1		
			202-00720	Removal of Closed Circuit Camera	EACH	1														1		
			202-00750	Removal of Luminaire	EACH	4														4		
			202-00805	Removal of Overhead Sign Structure	EACH	1														1		
			202-00810	Removal of Ground Sign	EACH	46														46		
			202-00825	Removal of Flashing Beacon	EACH	2														2		
			202-00827	Removal of Pull Box	EACH	14														14		
			202-00831	Removal of Traffic Signal Head	EACH	2														2		
			202-00840	Removal of Traffic Signal Pole	EACH	3														3		
			202-00858	Removal of Pedestal Pole	EACH	1														1		
			202-00860	Removal of Pedestrian Push Button	EACH	2														2		
			202-01130	Removal of Guardrail Type 3	LF	338														338		
			202-04002	Clean Culvert	EACH	15														15		
			202-04100	Abandon Well	EACH	4														4		
			202-05030	Sawing Asphalt Material (10 Inch)	LF	23,561														23,561		
			203-00010	Unclassified Excavation (Complete In Place)	CY	70,971														70,971		
			203-00400	Rock Excavation	CY																	
																24					24	


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Sheet Revisions		
Date:	Comments	Init.

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**Region 2** **DTD**

**As Constructed**

No Revisions:  
 Revised:  
 Void:

**US 50 WEST  
 PURCELL BLVD. TO WILLS BLVD.**

Designer:  
 Detailer:  
 Subset:

Structure Numbers  
 Subset Sheets: of

**Project No./Code**

FSA 0503-081


19751

Sheet Number **10**

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BOOK	PAGE	SHEET				PLAN	AS CONST.											PLAN	AS CONST.
			203-01500	Blading	HOUR	100												100	
			203-01510	Backhoe	HOUR	100												100	
			203-01550	Dozing	HOUR	100												100	
			203-01597	Potholing	HOUR	1,000												1,000	
			203-01622	Sweeping (With Pickup Broom)	HOUR	300												300	
			206-00000	Structure Excavation	CY										1,644			1,644	
			206-00100	Structure Backfill (Class 1)	CY										1,491			1,491	
			206-00360	Mechanical Reinforcement of Soil	CY										404			404	
			206-00510	Filter Material (Class A)	CY	182												182	
			206-01781	Shoring (Area 1)	L S										1			1	
			206-01782	Shoring (Area 2)	L S										1			1	
			207-00205	Topsoil	CY	5,374												5,374	
			208-00005	Erosion Log	LF	2,500												2,500	
			208-00011	Erosion Bales (Weed Free)	EACH	300												300	
			208-00020	Silt Fence	LF	13,100												13,100	
			208-00035	Aggregate Bag	LF	700												700	
			208-00045	Concrete Washout Structure	EACH	3												3	
			208-00050	Storm Drain Inlet Protection	EACH	40												40	
			208-00070	Vehicle Tracking Pad	EACH	4												4	
			208-00103	Removal and Disposal of Sediment (Labor)	HOUR	400												400	
			208-00105	Removal and Disposal of Sediment (Equipment)	HOUR	400												400	
			208-00106	Sweeping (Sediment Removal)	HOUR	800												800	
			208-00107	Removal of Trash	HOUR	300												300	
			208-00205	Erosion Control Supervisor	HOUR	1,500												1,500	
			208-00300	Temporary Berms	LF	5,000												5,000	
			210-00476	Reset Microwave Vehicle Radar Detector (MVRD)	EACH	3												3	
			210-00750	Reset Light Standard	EACH	4												4	
			210-00815	Reset Sign Panel	EACH	1												1	
			210-00825	Reset Flashing Beacon	EACH	2												2	
			210-00858	Reset Pedestal Pole	EACH	1												1	
			210-00890	Reset Intersection Detection System (Camera)	EACH	6												6	
			210-01000	Reset Fence	LF	9,555												9,555	
			210-02900	Relay Riprap	CY										460			460	

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**As Constructed**

No Revisions:

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**US 50 WEST  
 PURCELL BLVD. TO WILLS BLVD.**

Designer: \_\_\_\_\_  
 Detailer: \_\_\_\_\_  
 Subset: \_\_\_\_\_

Structure Numbers: \_\_\_\_\_  
 Subset Sheets: \_\_\_\_\_ of \_\_\_\_\_

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BOOK	PAGE	SHEET																			
		212-00006	Seeding (Native)	ACRE	19.6															19.6	
		212-00010	Seeding (Lawn)	LB	5															5	
		212-00025	Seeding (Shrubs)	LB	5															5	
		212-00032	Soil Conditioning	ACRE	10															10	
		212-00040	Soil Preparation (Lawn)	ACRE	1															1	
		213-00002	Mulching (Weed Free Hay)	ACRE	20															20	
		213-00061	Mulch Tackifier	LB	6															6	
		213-00150	Bonded Fiber Matrix	ACRE	1															1	
		214-00205	Deciduous Tree (5 Gallon Container)	EACH	2															2	
		214-01015	Willow Cuttings	EACH	1,100															1,100	
		216-00042	Soil Retention Blanket (Biodegradable Straw/Coconut)	SY	2,420															2,420	
		216-00301	Turf Reinforcement Mat (Class 1)	SY	17															17	
		217-00020	Herbicide Treatment	HOUR	80															80	
		240-00010	Removal of Nests	HOUR	40															40	
		240-00020	Netting	SY	50															50	
		240-00100	Prairie Dog Management	L S	1															1	
		250-00010	Environmental Health and Safety Management	L S	1															1	
		250-00050	Monitoring Technician	HOUR	80															80	
		250-00110	Health and Safety Officer	HOUR	80															80	
		250-00200	Material Handling (Stockpile)	CY	100															100	
		250-00210	Solid Waste Disposal	CY	50															50	
		250-00220	Hazardous Waste Disposal	CY	50															50	
		304-06000	Aggregate Base Course (Class 6)	TON	57,645															57,645	
		306-01000	Reconditioning	SY	29,529															29,529	
		403-00720	Hot Mix Asphalt (Patching) (Asphalt)	TON	105															105	
		403-33841	Hot Mix Asphalt (Grading S) (100) (PG 64-22)	TON	20,957															20,957	
		403-34841	Hot Mix Asphalt (Grading SX) (100) (PG 64-22)	TON								243								243	
		403-34871	Hot Mix Asphalt (Grading SX) (100) (PG 76-28)	TON	15,555															15,555	
		411-10255	Emulsified Asphalt (Slow-Setting)	GAL	13,023															13,023	
		412-00600	Concrete Pavement (6 Inch)	SY	20															20	
		420-00102	Geotextile (Erosion Control) (Class 1)	SY								4,199								4,199	
		420-00112	Geotextile (Drainage) (Class 1)	SY	567															567	

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Sheet Revisions		
Date:	Comments	Init.

Colorado Department of Transportation  
 902 Erie Avenue  
 Pueblo, CO 81001  
 Phone: 719-562-5509     FAX: 719-546-5702  
**Region 2**     **DTD**

As Constructed		US 50 WEST PURCELL BLVD. TO WILLS BLVD.	
No Revisions:		Designer:	Structure
Revised:		Detailer:	Numbers
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BOOK	PAGE	SHEET				PLAN	AS CONST.											PLAN	AS CONST.
			502-00100	Drilling Hole to Facilitate Pile Driving	LF											95		95	
			502-11253	Steel Piling (HP 12x53)	LF											326		326	
			503-00012	Drilled Caisson (12 Inch)	LF	7												7	
			503-00018	Drilled Caisson (18 Inch)	LF	4												4	
			503-00036	Drilled Caisson (36 Inch)	LF	19												19	
			503-00048	Drilled Caisson (48 Inch)	LF	74												74	
			506-00209	Riprap (9 Inch)	CY	284												284	
			506-00212	Riprap (12 Inch)	CY	73												73	
			506-00218	Riprap (18 Inch)	CY										3,590			3,590	
			507-00100	Concrete Slope and Ditch Paving (Reinforced)	CY	10												10	
			513-00600	Bridge Drain	EACH										1			1	
			514-00201	Pedestrian Railing (Steel)(Special)	LF										227			227	
			515-00120	Waterproofing (Membrane)	SY										660			660	
			518-01004	Bridge Expansion Device (0-4 Inch)	LF										168			168	
			601-01000	Concrete Class B	CY	54.1												54.1	
			601-01050	Concrete Class B (Wall)	CY	2.6												2.6	
			601-03040	Concrete Class D (Bridge)	CY										756.8			756.8	
			602-00000	Reinforcing Steel	LB										18,645			18,645	
			602-00020	Reinforcing Steel (Epoxy Coated)	LB	1,660									96,385			98,045	
			603-01185	18 Inch Reinforced Concrete Pipe (Complete In Place)	LF	71												71	
			603-01245	24 Inch Reinforced Concrete Pipe (Complete In Place)	LF	1,995												1,995	
			603-01365	36 Inch Reinforced Concrete Pipe (Complete In Place)	LF	777												777	
			603-01485	48 Inch Reinforced Concrete Pipe (Complete In Place)	LF	959												959	
			603-02185	23x14 Inch Reinforced Concrete Pipe (Complete In Place)	LF	387												387	
			603-02245	30x19 Inch Reinforced Concrete Pipe Elliptical (Complete In Place)	LF	205												205	
			603-02305	38x24 Inch Reinforced Concrete Pipe Elliptical (Complete In Place)	LF	142												142	
			603-05018	18 Inch Reinforced Concrete End Section	EACH	1												1	
			603-05024	24 Inch Reinforced Concrete End Section	EACH	7												7	
			603-05036	36 Inch Reinforced Concrete End Section	EACH	2												2	

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 File Name: 19056DES\_SAO.dgn  
 Horiz. Scale: 1:200      Vert. Scale: As Noted



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 5898 South Rapp Street  
 Littleton, Colorado 80120

Sheet Revisions		
Date:	Comments	Init.

Colorado Department of Transportation



902 Erie Avenue  
 Pueblo, CO 81001  
 Phone: 719-562-5509    FAX: 719-546-5702

Region 2      DTD

As Constructed
No Revisions:
Revised:
Void:

US 50 WEST  
 PURCELL BLVD. TO WILLS BLVD.

Designer:	Structure Numbers
Detailer:	
Subset:	Subset Sheets: of

Project No./Code

FSA 0503-081


19751

Sheet Number 13

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INDEX			CONTRACT ITEM NO.	CONTRACT ITEM	UNIT	ROADWAY										STRUCTURE K-18-CW		PROJECT TOTALS	
BOOK	PAGE	SHEET				PLAN	AS CONST.											PLAN	AS CONST.
			603-05048	48 Inch Reinforced Concrete End Section	EACH	1												1	
			603-05118	23x14 Inch Reinforced Concrete End Section Elliptical	EACH	3												3	
			603-05124	30x19 Inch Reinforced Concrete End Section Elliptical	EACH	4												4	
			603-05130	38x24 Inch Reinforced Concrete End Section Elliptical	EACH	2												2	
			603-10180	18 Inch Corrugated Steel Pipe	LF	11												11	
			603-10240	24 Inch Corrugated Steel Pipe	LF	168												168	
			603-10300	30 Inch Corrugated Steel Pipe	LF	138												138	
			603-15036	36 Inch Equivalent Corrugated Steel Pipe Arch	LF	37												37	
			603-30024	24 Inch Steel End Section	EACH	6												6	
			603-30030	30 Inch Steel End Section	EACH	3												3	
			603-31336	36 Inch Equivalent Arch Steel End Section	EACH	3												3	
			603-50015	15 Inch Plastic Pipe	LF										166			166	
			604-00305	Inlet Type C (5 Foot)	EACH	7												7	
			604-00310	Inlet Type C (10 Foot)	EACH	5												5	
			604-00511	Inlet Type D (Special) (10 Foot)	EACH	2												2	
			604-19110	Inlet Type R L 5 (10 Foot)	EACH	3												3	
			604-19210	Inlet Type R L 10 (10 Foot)	EACH	3												3	
			604-19310	Inlet Type R L 15 (10 Foot)	EACH	2												2	
			604-30010	Manhole Slab Base (10 Foot)	EACH	4												4	
			604-30015	Manhole Slab Base (15 Foot)	EACH	2												2	
			604-39050	Manhole (Traffic Management System)	EACH	4												4	
			606-00301	Guardrail Type 3 (6-3 Post Spacing)	LF	325												325	
			606-00710	Guardrail Type 7 (Style CA)	LF	115												115	
			606-01370	Transition Type 3G	EACH	2												2	
			606-01460	Median Terminal	EACH	2												2	
			606-02005	End Anchorage (Flared)	EACH	2												2	
			606-11005	Bridge Rail Type 10 (Special)	LF										225			225	
			606-20010	Tensioned Cable Barrier	LF	7,142												7,142	
			607-11525	Fence (Plastic)	LF	1,575												1,575	
			608-00000	Concrete Sidewalk	SY	298												298	
			608-00010	Concrete Curb Ramp	SY	23												23	


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Region 2 DTD

As Constructed

No Revisions:

Revised:

Void:

US 50 WEST  
 PURCELL BLVD. TO WILLS BLVD.

Designer: \_\_\_\_\_  
 Detailer: \_\_\_\_\_  
 Subset: \_\_\_\_\_

Structure Numbers  
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INDEX			CONTRACT ITEM NO.	CONTRACT ITEM	UNIT	ROADWAY										STRUCTURE K-18-CW		PROJECT TOTALS		
BOOK	PAGE	SHEET				PLAN	AS CONST.											PLAN	AS CONST.	PLAN
			608-00015	Detectable Warnings	SF	58													58	
			609-21020	Curb and Gutter Type 2 (Section II-B)	LF	435													435	
			609-21021	Curb and Gutter Type 2 (Section II-M)	LF	1,653													1,653	
			612-00001	Delineator (Type I)	EACH	113													113	
			612-00002	Delineator (Type II)	EACH	38													38	
			612-00003	Delineator (Type III)	EACH	6													6	
			613-00200	2 Inch Electrical Conduit	LF	90									241				331	
			613-00206	2 Inch Electrical Conduit (Bored)	LF	659													659	
			613-00306	3 Inch Electrical Conduit (Bored)	LF	800													800	
			613-07023	Pull Box (24"x36"x24")	EACH	8													8	
			613-07039	Pull Box (30"x48"x18")	EACH	1													1	
			613-10000	Wiring	L S	1													1	
			613-13006	Luminare (LED) (8500 Lumens)	EACH	4													4	
			613-40010	Light Standard Foundation	EACH	4													4	
			614-00011	Sign Panel (Class I)	SF	131													131	
			614-00012	Sign Panel (Class II)	SF	335													335	
			614-00013	Sign Panel (Class III)	SF	385													385	
			614-00615	Steel Sign Post (W 6x15)	LF	128													128	
			614-01502	Steel Sign Support (2-Inch Round)(Post & Socket)	LF	70													70	
			614-01572	Steel Sign Support (2-1/2 Inch Round NP-40)(Post & Slipbase)	LF	290													290	
			614-03002	Concrete Footing (Type 2)	EACH	8													8	
			614-10147	Variable Message Sign LED (Overhead)	EACH	1													1	
			614-32400	Monotube Overhead Sign Cantilever (24 Inch Diameter)	EACH	1													1	
			614-70150	Pedestrian Signal Face (16) (Countdown)	EACH	8													8	
			614-70336	Traffic Signal Face (12-12-12)	EACH	11													11	
			614-70448	Traffic Signal Face (12-12-12-12)	EACH	3													3	
			614-72860	Pedestrian Push Button	EACH	7													7	
			614-72863	Pedestrian Push Button Post Assembly	EACH	1													1	
			614-80385	Rumble Strip	LF	29,000													29,000	
			614-81150	Traffic Signal-Light Pole Steel (1-50 Foot Mast Arm)	EACH	1													1	
			614-81160	Traffic Signal Light Pole Steel (1-60 Foot Mast Arm)	EACH	2													2	

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 File Name: 19056DES\_SAQ.dgn  
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Region 2      DTD


As Constructed	No Revisions:	US 50 WEST	
	Revised:	PURCELL BLVD. TO WILLS BLVD.	
	Void:	Designer:	Structure Numbers
		Detailer:	Subset Sheets: of

Project No./Code	FSA 0503-081
	19751
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INDEX			CONTRACT ITEM NO.	CONTRACT ITEM	UNIT	ROADWAY										STRUCTURE K-18-CW		PROJECT TOTALS	
BOOK	PAGE	SHEET				PLAN	AS CONST.											PLAN	AS CONST.
			614-87011	Fiber Optic Cable (Single Mode) (24 Fiber)	LF	50												50	
			614-87524	Splice Fiber Optic Cable (24 Strand)	EACH	1												1	
			618-00142	Prestressed Concrete I (BT42)	LF										730			730	
			620-00002	Field Office (Class 2)	EACH	1												1	
			620-00012	Field Laboratory (Class 2)	EACH	1												1	
			620-00020	Sanitary Facility	EACH	1												1	
			621-00450	Detour Pavement	SY	611												611	
			625-00000	Construction Surveying	L S	1												1	
			626-00000	Mobilization	L S	1												1	
			626-01000	Public Information Services	L S	1												1	
			627-00007	Epoxy Pavement Marking (Special)	GAL	179												179	
			627-00011	Pavement Marking Paint (Waterborne)	GAL	400												400	
			627-30205	Thermoplastic Pavement Marking (Word-Symbol)	SF	93												93	
			627-30210	Thermoplastic Pavement Marking (Xwalk-Stopline)	SF	903												903	
			630-00000	Flagging	HOUR	3,808												3,808	
			630-00007	Traffic Control Inspection	DAY	127												127	
			630-00012	Traffic Control Management	DAY	238												238	
			630-80001	Flashing Beacon (Portable)	EACH	10												10	
			630-80335	Barricade (Type 3 M-A) (Temporary)	EACH	3												3	
			630-80341	Construction Traffic Sign (Panel Size A)	EACH	43												43	
			630-80342	Construction Traffic Sign (Panel Size B)	EACH	91												91	
			630-80344	Construction Traffic Sign (Special)	SF	165												165	
			630-80358	Advance Warning Flashing or Sequencing Arrow Panel (C Type)	EACH	6												6	
			630-80359	Portable Message Sign Panel	DAY	4												4	
			630-80363	Drum Channelizing Device (With Light) (Flashing)	EACH	75												75	
			630-80370	Concrete Barrier (Temporary)	LF	3,000												3,000	
			630-80380	Traffic Cone	EACH	100												100	
			630-85011	Impact Attenuator (Temporary)	DAY	50												50	
			700-70010	FORCE ACCOUNT =====															
			700-70010	F/A Minor Contract Revisions	F A	1												1	
			700-70011	F/A Partnering	F A	1												1	
			700-70012	F/A Asphalt Pavement Incentive	F A	1												1	

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**Region 2** **DTD**

As Constructed
No Revisions:
Revised:
Void:

**US 50 WEST  
 PURCELL BLVD. TO WILLS BLVD.**

Designer:	Structure Numbers
Detailer:	Subset Sheets: of

**Project No./Code**

FSA 0503-081



19751

Sheet Number **16**



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SUMMARY OF EARTHWORK QUANTITIES		
<b>UNCLASSIFIED EXCAVATION (COMPLETE IN PLACE)(NET)</b>		
		<b>CUBIC YARDS</b>
FOR ROADWAY		62,240
FOR CUT SLOPE TREATMENT		3,112
UNCLASSIFIED EXCAVATION FROM STRUCTURE QUANTITIES		1,644
FOR WATER QUALITY POND		3,975
<b>TOTAL</b>		<b>70,971</b>
<b>MUCK EXCAVATION</b>		
		<b>CUBIC YARDS</b>
<b>TOTAL</b>		<b>0</b>
<b>FOR INFORMATION ONLY EARTHWORK QUANTITIES BALANCE</b>		
<b>EMBANKMENT MATERIAL (COMPLETE IN PLACE)(NET)</b>		
		<b>CUBIC YARDS</b>
FOR ROADWAY:	REGULAR EMBANKMENT	19,659
FOR DETOUR		200
FOR REPLACING MUCK EXCAVATION		0
EMBANKMENT FROM STRUCTURE QUANTITIES		1,491
<b>TOTAL</b>		<b>21,350</b>
<b>COMPACTION (AASHTO T 99)</b>		
		<b>CUBIC YARDS</b>
TOTAL EMBANKMENT (NET)		21,350
<b>TOTAL</b>		<b>21,350</b>
<b>EARTHWORK QUANTITIES BALANCE</b>		
<b>UNCLASSIFIED EXCAVATION</b>		
		<b>CUBIC YARDS</b>
<b>TOTAL</b>		<b>70,971</b>
<b>EMBANKMENT (NET)</b>		
<b>TOTAL</b>		<b>21,350</b>
<b>EMBANKMENT (NET) TIMES COMPACTION FACTOR</b>	<b>1.05</b>	
<b>TOTAL</b>		<b>22,418</b>
<b>EXCESS EXCAVATION</b>		
EXCESS EXCAVATION TO BECOME PROPERTY OF THE CONTRACTOR		48,553
<b>TOTAL</b>		<b>48,553</b>
<b>EMBANKMENT FACTORED PLUS EXCESS EXCAVATION</b>		
<b>TOTAL</b>		<b>70,971</b>

Print Date: 10/9/2014		 Colorado Department of Transportation 902 Erie Avenue Pueblo, CO 81001 Phone: 719-562-5509 FAX: 719-546-5702 Region 2	As Constructed No Revisions: Revised: Void:	US 50 WEST PURCELL BLVD. TO WILLS BLVD. EARTHWORK QUANTITIES	Project No./Code
File Name: 19056DES_EarthworkQuant01.dgn					FSA 0503-081
Horiz. Scale: 1:1	Vert. Scale: As Noted				19751
 J. F. SATO AND ASSOCIATES 5898 South Rapp Street Littleton, Colorado 80120				Designer: Detailer: Subset:	Structure Numbers Subsel Sheets: TAB1 of 10 Sheet Number 18







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606-00301                      606-00716                      606-01370                      606-01460                      606-02005                      606-20014

Tabulation of Guardrail								
Location	Side	Guardrail Type 3 (6'-3" Post Spacing)	Guardrail Type 7 (Style CA) (Special)	Transition Type 3G	Median Terminal	End Anchorage (Flared)	Tensioned Cable Barrier (TL-4)	Comment
		LF	LF	EA	Each	Each	LF	
<b>US 50</b>								
113+58.81 TO 185+00	LT				2		7,142	MEDIAN TERMINAL FOR CABLE BARRIER
241+41.94 TO 242+92.98	RT	162.50		1		1		BRIDGE APPROACH
258+28.10 TO 259+43.45	RT	162.50	115	1		1		RR BRIDGE UNDERPASS
<b>PROJECT TOTALS</b>		<b>325</b>	<b>115</b>	<b>2</b>	<b>2</b>	<b>2</b>	<b>7,142</b>	

Note: The guardrail blocks shall be synthetic and the post shall be steel.

612-00001                      612-00002                      612-00003

Tabulation of Delineators										
Location	Side	Spacing (FT)	Curve Radius (FT)	Type I		Type II		Type III		Notes
				Crystal	Yellow	Crystal	Yellow	Yellow	Blue/Yellow	
				Each	Each	Each	Each	Each	Each	
<b>US 50</b>										
100+00 TO 185+79.29		8579.29			17	17				4
185+79.29 TO 196+14.94		1035.65	6,844		7	7				
196+14.94 TO 206+43.45		1028.51			4	4				
206+43.45 TO 216+97.00		543			11	11	8	8		
217+80.11 TO 231+50.82		896			9	9	11	11		
231+50.82 TO 241+00		949.18			4	4				
241+00 TO 242+92.46		192.46			3	3			2	
256+77.58 TO 259+43.08					3					
<b>SUBTOTALS</b>					58	55	19	19	2	4
<b>PROJECT TOTALS</b>					<b>113</b>		<b>38</b>		<b>6</b>	

For Information Only: It is Estimated that 108 Each, Removal of Delineators, will be required.

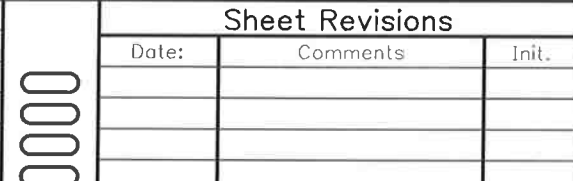

Print Date: 10/9/2014 File Name: 19056DES_Guardrail_n_Delineators.dgn Horiz. Scale: 1:1      Vert. Scale: As Noted	<b>Sheet Revisions</b> <table border="1" style="width: 100%; border-collapse: collapse;"> <thead> <tr> <th>Date:</th> <th>Comments</th> <th>Init.</th> </tr> </thead> <tbody> <tr><td> </td><td> </td><td> </td></tr> <tr><td> </td><td> </td><td> </td></tr> <tr><td> </td><td> </td><td> </td></tr> </tbody> </table>	Date:	Comments	Init.										<b>Colorado Department of Transportation</b>  902 Erie Avenue Pueblo, CO 81001 Phone: 719-562-5509    FAX: 719-546-5702 <b>Region 2</b> <b>DTD</b>	<b>As Constructed</b> No Revisions: Revised: Void:	<b>US 50 WEST</b> <b>PURCELL BLVD. TO WILLS BLVD.</b> <b>TAB OF GUARDRAIL &amp; DELINEATORS</b> Designer: GV    Structure Detailer: GV    Numbers Subset: TAB    Subset Sheets: TAB4 of 10	<b>Project No./Code</b> FSA 0503-081 19751 Sheet Number 21
Date:	Comments	Init.															

	J. F. SATO AND ASSOCIATES 5898 South Rapp Street Littleton, Colorado 80120
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304-06007      403-00720      403-33841      403-34841      411-10255      412-00600      608-00000      608-00010      608-00015      609-21020      609-21021

**Tabulation of Surfacing and Concrete**

Station		Aggregate Base Course (Class 6)	Hot Mix Asphalt (Patching) (Asphalt)	Hot Mix Asphalt (Grading S) (100) (PG 64-22)		Hot Mix Asphalt (Grading SX) (100) (PG 76-28)		Emulsified Asphalt (Slow-Setting)	Concrete Pavement (6 Inch)	Concrete Sidewalk	Concrete Curb Ramp	Detectable Warnings	Curb and Gutter Type 2 (Section II-B)	Curb and Gutter Type 2 (Section II-M)	Notes
				TON		TON									
From	To	TON	TON	Bottom	Lift 2	Top - New Pvmt.	Overlay-Ex. Pvmt.								
<b>US 50</b>															
97+13	100+17						143	65							
100+17	109+74	827		210	140	140	456	399							Widening, RT
109+74	113+59	291		74	49	49	174	147							Widening, RT
113+59	184+29	4,584		1,167	778	778	3,024	2,435							Widening, RT
105+59	109+74	269		68	46	46		62							Widening LT; Overlay already accounted for.
109+74	113+59	347		88	59	59		80							Widening LT; Overlay already accounted for.
113+59	184+29	8,149		2,074	1,383	1,383		1,885							Widening LT; Overlay already accounted for.
184+29	196+15	683		174	116	116		158							Widening LT; Overlay already accounted for.
184+29	196+15	1,496		381	254	254	507	577							Widening, RT
196+15	206+43	1,778		453	302	302	453	617							Widening, RT
206+43	208+64	477	60	121	81	81	97	155							Widening, RT
208+64	211+86	696		177	118	118	142	225							Widening, RT
211+86	217+18	920		234	156	156	293	346							Widening, RT
218+44	222+55	712		181	121	121	196	254							Widening, RT
222+55	225+00	529		135	90	90	109	172							Widening, RT
225+00	229+29	1,725		519	346	346		472							Full Depth
229+29	231+51	853		256	171	171		233							Full Depth
231+51	239+80	3,135		943	629	629		857							Full Depth
239+80	242+02	816		245	164	164		223							Full Depth
242+02	242+90	318		95	64	64		87							Full Depth
242+73	242+97							0		28					
245+23	245+55							0		30					
245+23	254+52	3,398		1,022	681	681		929	20						Full Depth
254+52	256+00	451		136	90	90		123							Full Depth
256+00	256+50	149		45	30	30		41							Full Depth
Irregularities (5%)				440	293	587	559								
SubTotals		32,603	60	8,799	5,866	5,866	5,595	10,542	20	59	0	0	0	0	
<b>SHEET 1 SUBTOTALS</b>		<b>32,603</b>	<b>60</b>	<b>9,239</b>	<b>6,159</b>	<b>6,453</b>	<b>6,154</b>	<b>10,542</b>	<b>20</b>	<b>59</b>	<b>0</b>	<b>0</b>	<b>0</b>	<b>0</b>	

Print Date: 10/9/2014		 <p>Colorado Department of Transportation 902 Erie Avenue Pueblo, CO 81001 Phone: 719-562-5509 FAX: 719-546-5702 Region 2 DTD</p>	<p><b>As Constructed</b></p> <p>No Revisions:</p> <p>Revised:</p> <p>Void:</p>	<p><b>US 50 WEST PURCELL BLVD. TO WILLS BLVD. TABULATION OF SURFACING</b></p>		<p>Project No./Code FSA 0503-081 19751 Sheet Number 22</p>
File Name: 19056DES_Surfacing.dgn				<p>Horiz. Scale: 1:1      Vert. Scale: As Noted</p>	<p>Designer: ACE Detailer: ACE Subset: TAB</p>	

**JFS&A**  
J. F. SATO AND ASSOCIATES  
5898 South Rapp Street  
Littleton, Colorado 80120

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304-06007      403-00720      403-33841      403-34841      411-10255      412-00600      608-00000      608-00010      608-00015      609-21020      609-21021

**Tabulation of Surfacing and Concrete**

Station		Aggregate Base Course (Class 6)	Hot Mix Asphalt (Patching) (Asphalt)	Hot Mix Asphalt (Grading S) (100) (PG 64-22)		Hot Mix Asphalt (Grading SX) (100) (PG 76-28)		Emulsified Asphalt (Slow-Setting)	Concrete Pavement (6 Inch)	Concrete Sidewalk	Concrete Curb Ramp	Detectable Warnings	Curb and Gutter Type 2 (Section II-B)	Curb and Gutter Type 2 (Section II-M)	Notes	
				TON		TON										TON
From	To	TON	TON	Bottom	Lift 2	Top - New Pvmnt.	Overlay-Ex. Pvmnt.	GAL	SY	SY	SY	SF	LF	LF		
256+50	258+28	521	20	157	104	104		142						178	Full Depth	
258+28	259+43	352		106	70	70		96								Full Depth
259+43	260+43	293		88	59	59		80							100	Full Depth
260+43	261+43	299		90	60	60		82							100	Full Depth
261+43	264+61	969		291	194	194		265							318	Full Depth
264+61	267+64	995		299	199	199		272							302	Full Depth
267+64	273+70	2,164		651	434	434		592							607	Full Depth
<b>US 50 EBR Ramp</b>																
401+00	409+25	1,257	5	378	252	252		344							Full Depth	
<b>Pueblo Blvd NBR Ramp</b>																
500+58	507+99	1,130	5	340	226	226		309							Full Depth	
<b>Purcell Blvd</b>																
1+00	4+72	590	5	178	118	118		161							Full Depth	
<b>McCulloch Blvd</b>																
700+37	704+72	504	5	151	101	101		138		61	14	20	435		Full Depth	
<b>Wills Blvd</b>																
		1,889	5	426	284	284				178	9	38		47	Full Depth	
<b>Safety Edge &amp; Z-Slope</b>																
		14,080			38	635									Safety Edge & Z-Slope Quantity for Entire Project	
Irregularities (5%)																
				158	105	210										
SubTotals																
		25,042	45	3,155	2,141	2,738	0	2,481	0	239	23	58	435	1,653		
<b>SHEET 2 SUBTOTALS</b>		<b>25,042</b>	<b>45</b>	<b>3,313</b>	<b>2,246</b>	<b>2,948</b>	<b>0</b>	<b>2,481</b>	<b>0</b>	<b>239</b>	<b>23</b>	<b>58</b>	<b>435</b>	<b>1,653</b>		

**Summary of Surfacing and Concrete**

	Aggregate Base Course (Class 6)	Hot Mix Asphalt (Patching) (Asphalt)	Hot Mix Asphalt (Grading S) (100) (PG 64-22)		Hot Mix Asphalt (Grading SX) (100) (PG 76-28)		Emulsified Asphalt (Slow-Setting)	Concrete Pavement (6 Inch)	Concrete Sidewalk	Concrete Curb Ramp	Detectable Warnings	Curb and Gutter Type 2 (Section II-B)	Curb and Gutter Type 2 (Section II-M)	Notes
			TON		TON									
		TON	TON	Bottom	Lift 2	Top - New Pvmnt.	Overlay - Ex. Pvmnt.	GAL	SY	SY	SY	SF	LF	
<b>SHEET 1 SUBTOTALS</b>	32,603	60	9,239	6,159	6,453	6,154	10,542	20	59	0	0	0	0	
<b>SHEET 2 SUBTOTALS</b>	25,042	45	3,313	2,246	2,948	0	2,481	0	239	23	58	435	1,653	
<b>PROJECT TOTALS</b>	<b>57,645</b>	<b>105</b>	<b>12,552</b>	<b>8,405</b>	<b>9,401</b>	<b>6,154</b>	<b>13,023</b>	<b>20</b>	<b>298</b>	<b>23</b>	<b>58</b>	<b>435</b>	<b>1,653</b>	

Print Date: 10/9/2014

File Name: 19056DES\_Surfacing.dgn

Horiz. Scale: 1:1      Vert. Scale: As Noted

**JFS&A**  
J. F. SATO AND ASSOCIATES  
5898 South Rapp Street  
Littleton, Colorado 80120

**Sheet Revisions**

Date:	Comments	Init.

Colorado Department of Transportation



902 Erie Avenue  
Pueblo, CO 81001  
Phone: 719-562-5509    FAX: 719-546-5702

Region 2

DTD

**As Constructed**

No Revisions:
Revised:
Void:

**US 50 WEST  
PURCELL BLVD. TO WILLS BLVD.  
TABULATION OF SURFACING**

Designer:	ACE	Structure	
Detailer:	ACE	Numbers	
Subset:	TAB	Subset Sheets:	TAB6 of 10

Project No./Code

FSA 0503-081

19751

Sheet Number 23

202-00010  
202-00019  
202-00026  
202-00027  
202-00035  
202-00037  
202-00040  
202-00090  
202-00200  
202-00203  
202-00206  
202-00220  
202-00240  
202-00805  
202-00827  
202-00840  
202-00858  
202-01130


**Tabulation of Removals**

Station		Side	Removal of Tree	Removal of Inlet	Removal of Slope and Ditch Paving	Removal of Riprap	Removal of Pipe	Removal of End Section	Removal of Electrical Conduit	Removal of Delineator	Removal of Sidewalk	Removal of Curb and Gutter	Removal of Concrete Curb Ramp	Removal of Asphalt Mat	Removal of Asphalt Mat (Planing)	Removal of Overhead Sign Structure	Removal of Pull Box	Removal of Traffic Signal Pole	Removal of Pedestal Pole	Removal of Guardrail Type 3	Notes		
From	To		EA	EA	SY	SY	LF	EA	LF	EA	SY	LF	SY	SY	SY	EA	EA	EA	EA	LF			
97+13.10	115+00	RT								50				608	32,318						SAWCUT		
97+67.35		RT					1																CSP
98+42.75		RT	1																				
105+59.43	115+00	LT														152							SAWCUT EXISTING PAVEMENT
108+68.33	108+68.44	RT				6		1															
115+00.00	144+00	RT														430							SAWCUT EXISTING PAVEMENT
115+00.00	144+00	LT														568							SAWCUT EXISTING PAVEMENT
122+68.81		RT						1															CSP
122+69.44		LT		1																			MEDIAN INLET
123+61.07		RT						1															CSP
123+69.69		RT						1															CSP
123+78.25		RT						1															CSP
135+20.00		LT		1																			CSP
135+21.34		RT																					MEDIAN INLET
135+28.85		RT						1															CSP
135+38.24		RT						1															CSP
144+00.00	173+00.00	RT														417							CSP
144+00.00	173+00.00	LT														486							SAWCUT EXISTING PAVEMENT
146+78.24		RT						1															SAWCUT EXISTING PAVEMENT
146+78.86		LT		1																			CSP
148+53.75		RT																					MEDIAN INLET
156+70.57		RT																	1				FIBER OPTIC
156+70.67		LT		1																			CSP
168+80.96		RT																					MEDIAN INLET
168+81.65		LT		1																			CSP
173+00.00	201+00.00	RT																					MEDIAN INLET
173+00.00	196+14.96	LT														473							SAWCUT EXISTING PAVEMENT
174+71.45	176+53.82	RT														292							SAWCUT EXISTING PAVEMENT
176+31.18		RT																				182	
<b>SHEET 1 SUBTOTALS</b>			<b>1</b>	<b>5</b>	<b>0</b>	<b>6</b>	<b>0</b>	<b>12</b>	<b>0</b>		<b>50</b>	<b>0</b>	<b>0</b>	<b>0</b>		<b>3,426</b>	<b>32,318</b>	<b>1</b>	<b>2</b>	<b>0</b>	<b>0</b>	<b>182</b>	SHOULDER MOUNTED VMS; INCLUDES VMS PANEL REMOVAL

Print Date: 10/9/2014  
File Name: 19056DES\_Removals.dgn  
Horiz. Scale: 1:1 Vert. Scale: As Noted

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Sheet Revisions		
Date:	Comments	Init.

Colorado Department of Transportation  
 902 Erie Avenue  
 Pueblo, CO 81001  
 Phone: 719-562-5509 FAX: 719-546-5702  
 Region 2 DTD

As Constructed  
 No Revisions:  
 Revised:  
 Void:

US 50 WEST  
 PURCELL BLVD. TO WILLS BLVD.  
 TABULATION OF REMOVALS

Designer: ACE Structure  
 Detailer: AB Numbers  
 Subset: TAB Subset Sheets: TAB7 of 10

Project No./Code  
 FSA 0503-081  
 19751  
 Sheet Number 24

 J. F. SATO AND ASSOCIATES  
 5898 South Rapp Street  
 Littleton, Colorado 80120

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**Tabulation of Removals**

Station		Side	Removal of Tree	Removal of Inlet	Removal of Slope and Ditch Paving	Removal of Riprap	Removal of Pipe	Removal of End Section	Removal of Electrical Conduit	Removal of Delineator	Removal of Sidewalk	Removal of Curb and Gutter	Removal of Concrete Curb Ramp	Removal of Asphalt Mat	Removal of Asphalt Mat (Planing)	Removal of Overhead Sign Structure	Removal of Pull Box	Removal of Traffic Signal Pole	Removal of Pedestal Pole	Removal of Guardrail Type 3	Notes	
From	To		EA	EA	SY	SY	LF	EA	LF	EA	SY	LF	SY	SY	SY	EA	EA	EA	EA	LF		
177+23.53		RT																				
177+71.80		RT						1									1					LIGHT STANDARD RESET AND VMS
177+71.80		LT		1																		CSP
191+76.63		LT																				MEDIAN INLET
191+77.43		RT						1														CSP
198+78.36		RT					65	1														CSP
199+07.77		LT						1														CSP
201+00.00	216+97.00	RT																				CSP
205+58.08		RT											2.948									SAWCUT EXISTING PAVEMENT
206+72.01		RT					80	1									1					FIBER OPTIC
211+14.97		RT																				CSP
403+85.31		LT					61	2									1					FLASHING BEACON
405+10.08		LT					11	2														CSP
216+03.52		RT					100								19,500							CSP
217+37.06		RT								40												CSP
217+56.90	217+34.00	RT									382							1	1			PUEBLO BLVD SIGNAL; ABANDON CONDUIT
217+56.90	225+00.00	RT											2,563									
218+47.76		RT																				
219+39.90	219+65.00	RT															1	1				PUEBLO BLVD SIGNAL; ABANDON CONDUIT
219+61.32		RT					77				164											CSP
219+63.51		LT						1														CSP
220+36.58		RT																				
225+00.00	230+00.00	RT															1					FIBER OPTIC
228+76.89		RT					60	1					2.723									FULL DEPTH RECONSTRUCTION
230+00.00	242+73.10	RT																				CSP
231+94.36		RT	1										5.507									FULL DEPTH RECONSTRUCTION
241+77.77	242+30.80	RT					55	2														
241+36.43	242+91.54	RT																				CSP UNDER FRONTAGE ROAD
242+73.70		RT					62													156		WHC BRIDGE APPROACH
244+90.00	258+00.00	RT																				CSP AT BRIDGE
<b>SHEET 2 SUBTOTALS</b>			<b>1</b>	<b>1</b>	<b>0</b>	<b>0</b>	<b>571</b>	<b>14</b>	<b>0</b>	<b>40</b>	<b>546</b>	<b>0</b>	<b>0</b>	<b>20,078</b>	<b>19,500</b>	<b>0</b>	<b>6</b>	<b>2</b>	<b>0</b>	<b>156</b>	<b>FULL DEPTH RECONSTRUCTION</b>	

Print Date: 10/9/2014

File Name: 19056DES\_Removals.dgn

Horiz. Scale: 1:1

Vert. Scale: As Noted



**Sheet Revisions**

Date:	Comments	Init.

Colorado Department of Transportation



902 Erie Avenue  
Pueblo, CO 81001  
Phone: 719-562-5509 FAX: 719-546-5702

Region 2

DTD

**As Constructed**

No Revisions:

Revised:

Void:

**US 50 WEST  
PURCELL BLVD. TO WILLS BLVD.  
TABULATION OF REMOVALS**

Designer:	ACE	Structure	
Detailer:	AB	Numbers	
Subset:	TAB	Subset Sheets:	TAB8 of 10

Project No./Code

FSA 0503-081

19751

Sheet Number 25



J. F. SATO AND ASSOCIATES  
5898 South Ropp Street  
Littleton, Colorado 80120

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202-00010 202-00019 202-00026 202-00027 202-00035 202-00037 202-00040 202-00090 202-00200 202-00203 202-00206 202-00220 202-00240 202-00805 202-00827 202-00840 202-00858 202-01130

**Tabulation of Removals**


Station		Side	Removal of Tree	Removal of Inlet	Removal of Slope and Ditch Paving	Removal of Riprap	Removal of Pipe	Removal of End Section	Removal of Electrical Conduit	Removal of Delineator	Removal of Sidewalk	Removal of Curb and Gutter	Removal of Concrete Curb Ramp	Removal of Asphalt Mat	Removal of Asphalt Mat (Planing)	Removal of Overhead Sign Structure	Removal of Pull Box	Removal of Traffic Signal Pole	Removal of Pedestal Pole	Removal of Guardrail Type 3	Notes	
From	To		EA	EA	SY	SY	LF	EA	LF	EA	SY	LF	SY	SY	SY	EA	EA	EA	EA	LF		
245+09.75		RT					32			18											CSP AT BRIDGE	
246+42.57		RT																1				FIBER OPTIC
258+00.00	274+12.08	RT												7,499								FULL DEPTH RECONSTRUCTION
258+28.10	259+43.45	RT			59																	REMOVE RR SLOPE PAVING (PARTIAL)
260+00.00		RT				5																APPROX. STA - CONFIRM IN FIELD
265+34.77		RT							25									1				
266+90.00	273+40.00	RT			460																	GROUTED RUBBLE IN DITCH
267+90.00	274+03.00	RT											635									
268+50.80		RT							25													
271+79.40		RT							25													
273+93.20		RT						1	30													
700+37.13	704+71.88	RT										30		13					2	1	1	AT WILLS BLVD
700+37.13	702+58.51	LT											265	13								McCULLOCH BLVD
716+08.90	721+41.51	RT												60								McCULLOCH BLVD
<b>SHEET 3 SUBTOTALS</b>			<b>0</b>	<b>0</b>	<b>519</b>	<b>5</b>	<b>32</b>	<b>1</b>	<b>105</b>	<b>18</b>	<b>30</b>	<b>900</b>	<b>26</b>	<b>7,975</b>	<b>0</b>	<b>0</b>	<b>6</b>	<b>1</b>	<b>1</b>	<b>0</b>		
<b>SHEET 2 SUBTOTALS</b>			<b>1</b>	<b>1</b>	<b>0</b>	<b>0</b>	<b>571</b>	<b>14</b>	<b>0</b>	<b>40</b>	<b>546</b>	<b>0</b>	<b>0</b>	<b>20,078</b>	<b>19,500</b>	<b>0</b>	<b>6</b>	<b>2</b>	<b>0</b>	<b>156</b>		
<b>SHEET 1 SUBTOTALS</b>			<b>1</b>	<b>5</b>	<b>0</b>	<b>6</b>	<b>0</b>	<b>12</b>	<b>0</b>	<b>50</b>	<b>0</b>	<b>0</b>	<b>0</b>	<b>3,426</b>	<b>32,318</b>	<b>1</b>	<b>2</b>	<b>0</b>	<b>0</b>	<b>182</b>		
<b>PROJECT TOTALS</b>			<b>2</b>	<b>6</b>	<b>519</b>	<b>11</b>	<b>603</b>	<b>27</b>	<b>105</b>	<b>108</b>	<b>576</b>	<b>900</b>	<b>26</b>	<b>31,479</b>	<b>51,818</b>	<b>1</b>	<b>14</b>	<b>3</b>	<b>1</b>	<b>338</b>		

Print Date: 10/9/2014  
 File Name: 19056DES\_Removals.dgn  
 Horz. Scale: 1:1 Vert. Scale: As Noted

**JFS&A**  
 J. F. SATO AND ASSOCIATES  
 5898 South Ropp Street  
 Littleton, Colorado 80120

Sheet Revisions		
Date:	Comments	Init.

Colorado Department of Transportation

 902 Erie Avenue  
 Pueblo, CO 81001  
 Phone: 719-562-5509 FAX: 719-546-5702

Region 2 DTD

As Constructed

No Revisions:

Revised:

Void:

US 50 WEST  
 PURCELL BLVD. TO WILLS BLVD.  
 TABULATION OF REMOVALS

Designer: ACE  
 Detailer: AB  
 Subset: TAB

Structure Numbers  
 Subset Sheets: TAB9 of 10

Project No./Code  
 FSA 0503-081  
 19751  
 Sheet Number 26

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210-00750

210-00858

210-01000

Tabulation of Resets							Notes
Station		Side	* Reset Survey Monuments	** Reset Light Standard	Reset Pedestal Pole	Reset Fence	
From	To		EA	EA	EA	LF	
702+19.9	702+25.0	LT			1		PEDESTAL POLE FOR PEDESTRIAN SIGNAL HEADS
107+93.5	115+00	RT				707	BARBED WIRE (IN PLACE)
115+00	144+00	RT				2,900	BARBED WIRE (IN PLACE)
130+98.1	131+21.37	RT	3				RESET SUBSIDENCE MONITOR SITES - BY COLORADO SPRINGS UTILITIES (FOR INFO ONLY)
144+00	173+00					2,900	BARBED WIRE (IN PLACE)
173+00	179+62.73	RT				713	BARBED WIRE (IN PLACE)
177+23.5		RT		1			NEAR VMS
205+57.54		RT					
218+68.86		RT					
219+00.00	230+00.00	RT				1,188	BARBED WIRE
220+36.58		RT					
230+00.00	241+46.49	RT				1,147	BARBED WIRE
265+34.77		RT		1			BETWEEN BNSF RR BRIDGE AND WILLS BLVD
268+50.80		RT		1			BETWEEN BNSF RR BRIDGE AND WILLS BLVD
271+79.40		RT		1			BETWEEN BNSF RR BRIDGE AND WILLS BLVD
<b>PROJECT TOTALS</b>			<b>3</b>	<b>4</b>	<b>1</b>	<b>9,555</b>	

\* For Information Only; WORK TO BE DONE BY OTHERS; COLORADO SPRINGS UTILITIES (SOUTHERN DELIVERY SYSTEM)

\*\* THIS QUANTITY REQUIRES (3 EACH) LIGHT STANDARD FOUNDATION (ITEM NO. 613-40010) CARRIED FORWARD TO THE SAQ

Print Date: 10/9/2014

File Name: 19056DES\_Resets.dgn

Horiz. Scale: 1:1 Vert. Scale: As Noted



J. F. SATO AND ASSOCIATES  
5898 South Rapp Street  
Littleton, Colorado 80120

## Sheet Revisions

Date:	Comments	Init.

Colorado Department of Transportation



Region 2

902 Erie Avenue  
Pueblo, CO 81001  
Phone: 719-562-5509 FAX: 719-546-5702

DTD

## As Constructed

No Revisions:

Revised:

Void:

US 50 WEST  
PURCELL BLVD. TO WILLS BLVD.  
TABULATION OF RESETS

Designer:

Detailer:

Subset:

Structure

Numbers

Subset Sheets: TAB10of 10

Project No./Code

FSA 0503-081

19751

Sheet Number 27