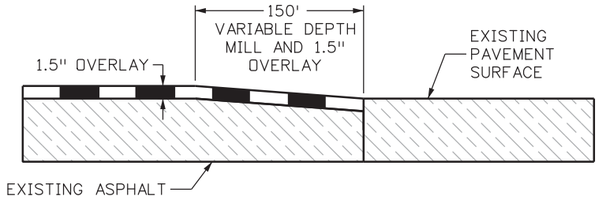
LEGEND:

- ⬢ MATCH EXISTING CROSS SLOPE
- ϕ GRADING LOCATIONS SHALL BE DETERMINED BY THE ENGINEER. PAID AS ABC (SHOULDER MATERIAL)
- ✳ WHERE POSSIBLE GRADE THIS AREA FLAT AS DETERMINED BY THE ENGINEER
- RS RUMBLE STRIP: OMIT AT APPROACHES, CONTINUE THROUGH PASSING ZONES. USE INTERMITTENT RUMBLE STRIP ON SHOULDERS PER M-614-1

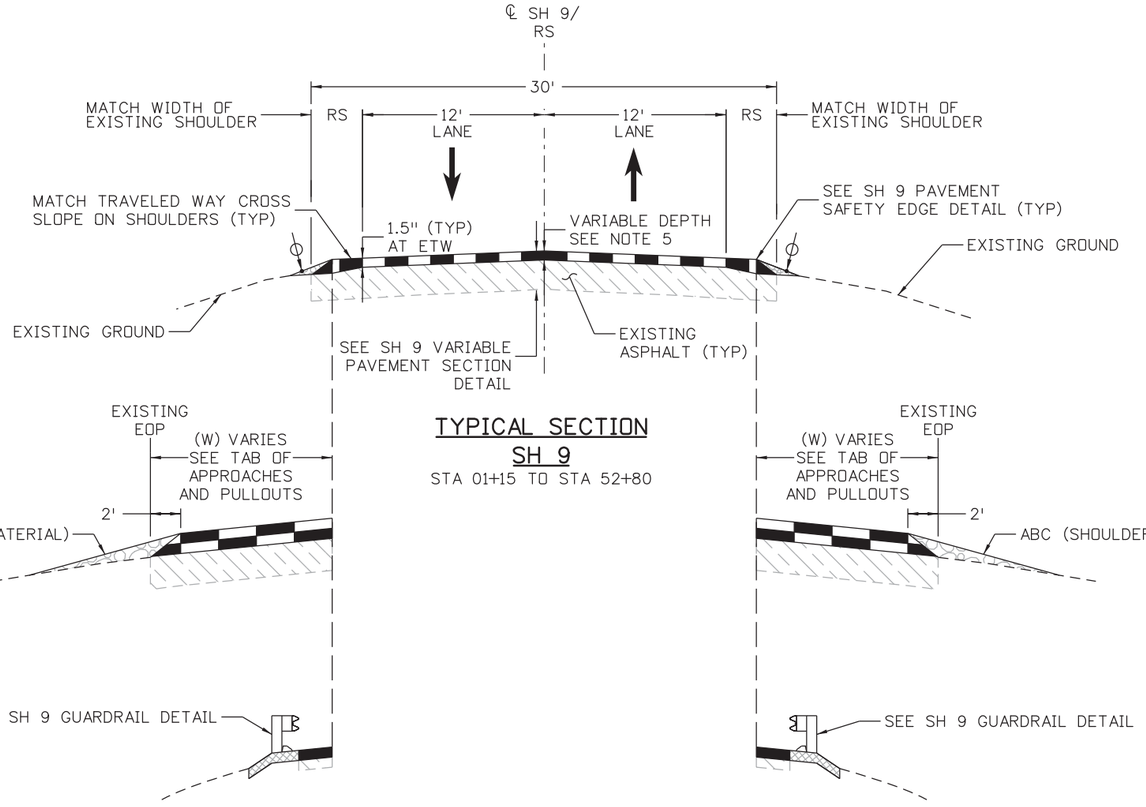
NOTES:

1) CURB TYPE 6, WHERE SPECIFIED IN THE TABULATION OF GUARDRAIL, SHALL BE PLACED DIRECTLY IN FRONT OF GUARDRAIL POSTS.
2) TYPICAL SECTION DATA IS BASED ON THE BEST AVAILABLE INFORMATION. PRIOR TO CONSTRUCTION THE CONTRACTOR SHALL VERIFY EACH SECTION.
3) SAFETY EDGE SHALL BE CONSTRUCTED IN ALL AREAS WITHOUT GUARDRAIL. (SEE DETAIL)
4) STA 0+00 TO STA 1+15: SH9/US50 JUNCTION. SEE TABULATION OF SURFACING MATERIALS.
5) CORRECT PROFILE DEFICIENCIES. SEE ROADWAY DETAIL SH9 MP 0.0 TO MP 1.0 FOR EXISTING PROFILE.
6) SEE NEXT SHEET FOR SH9 PAVEMENT STABILIZATION DATA.

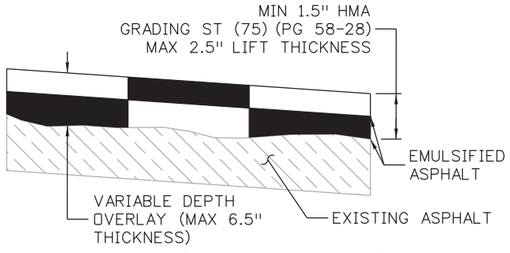


ASPHALT MILL TRANSITION DETAIL

SEE TABULATION OF SURFACING MATERIALS FOR LOCATIONS

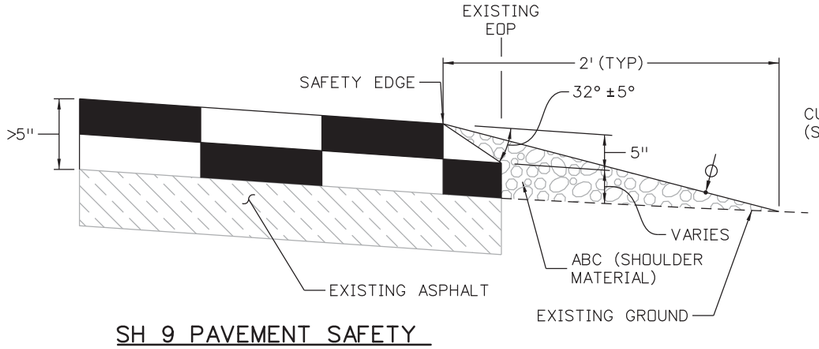


TYPICAL SECTION
SH 9
STA 01+15 TO STA 52+80

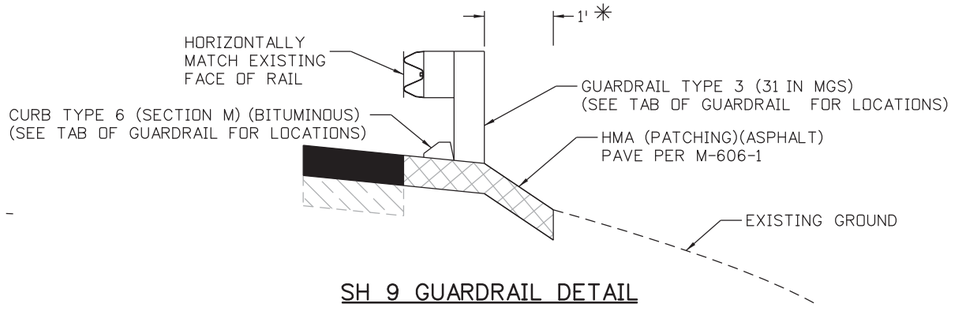


SH 9 VARIABLE PAVEMENT SECTION DETAIL

STA 01+15 TO STA 52+80



SH 9 PAVEMENT SAFETY EDGE DETAIL



SH 9 GUARDRAIL DETAIL

Print Date: 1/24/2017	Sheet Revisions	Colorado Department of Transportation	As Constructed
File Name: 21255DES_TyplSect01.dgn	Date: Comments: Init.	1480 Quail Lake, Suite A Colorado Springs, CO 80906 Phone: 719-634-2323 FAX: 719-227-3298	No Revisions:
Horiz. Scale: 1:10 Vert. Scale: N/A		Region 2 DW	Revised:
TRANSPORTATION AECOM Technical Services, Inc. 2315 Briargate Parkway, Suite 150 Colorado Springs, CO 80920 T 719.531.0001 www.aecom.com			Void:

SH 9 TYPICAL SECTION			Project No./Code
Designer: JAB	Structure Numbers		STA 0503-089
Detailer: LMB			21255
Subset: TYPICAL	Subset Sheets: 1 of 3		Sheet Number 3

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LEGEND:

- ⬢ MATCH EXISTING CROSS SLOPE
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- ✳ WHERE POSSIBLE GRADE THIS AREA FLAT AS DETERMINED BY THE ENGINEER
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NOTES:

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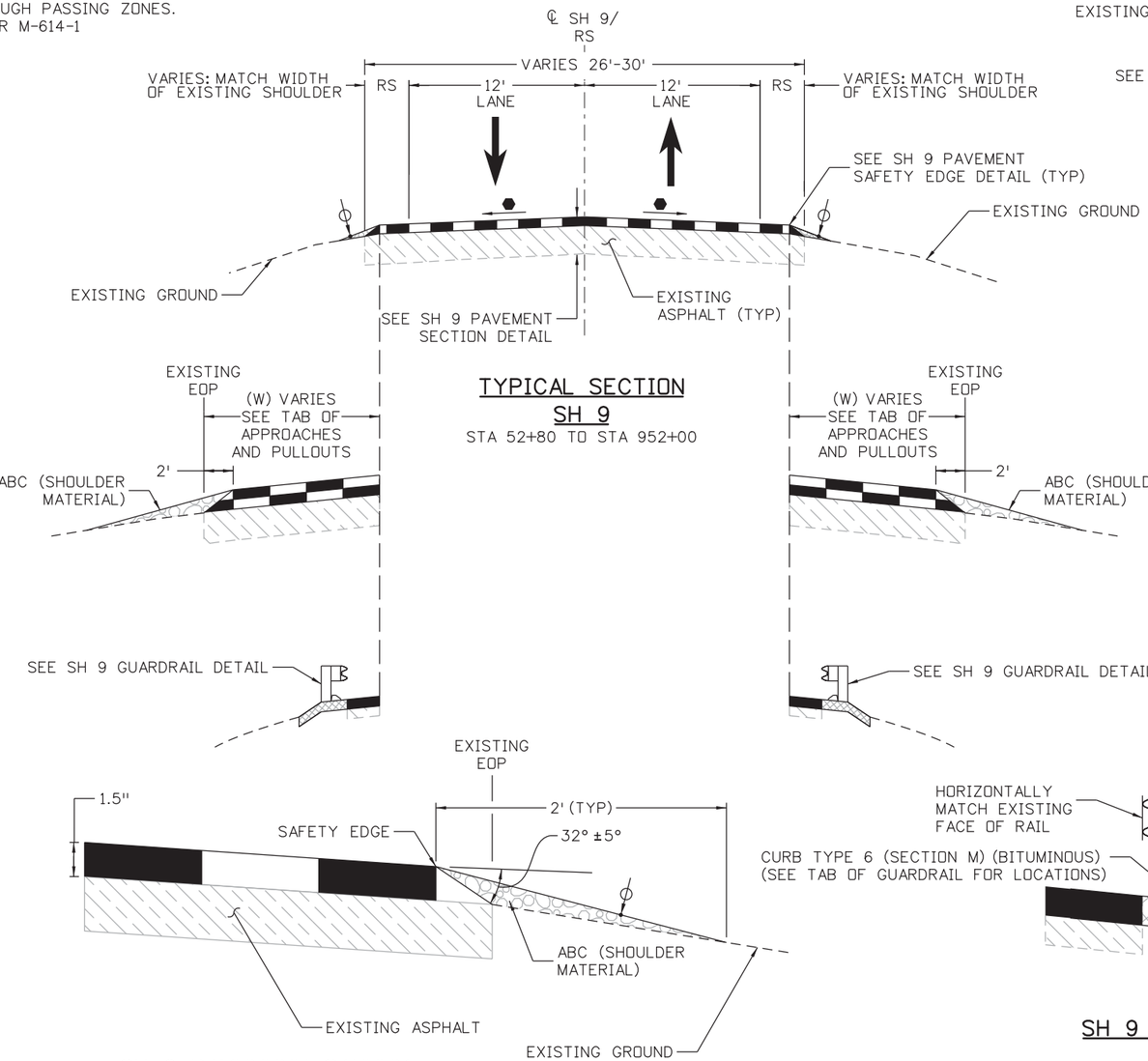
3) SAFETY EDGE SHALL BE CONSTRUCTED IN ALL AREAS WITHOUT GUARDRAIL. (SEE DETAIL)
4) STA 952+00 TO STA 970+00: NO RESURFACING WORK IN THIS AREA. SEE TABULATIONS FOR ANY ADDITIONAL WORK.

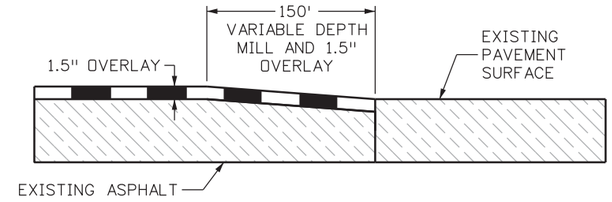
NH 0503-089 (21255)		
Design Parameters		
	1 1/2" Overlay	Widening Section
Design Life (Years)	10	20
18-Kip ESALS:	266,153	1,925,000
Heavy Trucks (Cumulative):	351,723	2,708,780
Operational Speed (MPH):	55	55
Effective Binder Content (%):	11.2	11.3
Voids (%):	5.1	6.7
Widening Pavement Thickness (in):	----	6
ABC Class 6 Thickness (in):	----	12
Milling Thickness (in):	0	----
Overlay Thickness (in):	1.5	----
HMA Grading:	ST	SX
HMA Design Gyrations:	75	100
HMA Grading (top lift)	PG 58-28	PG 58-28
HMA Grading (bottom lifts)	----	PG 58-28

Distress Prediction Summary				
	Target	Predicted	Target	Predicted
Terminal IRI (in/mile):	200	92.66	200	130.2
Reliability (%):	90	100	90	99.99
Permanent Deformation (in):	0.65	0.08	0.65	0.18
Reliability (%):	90	100	90	100
AC Total Fatigue Cracking(%)	35	7.9	----	----
Reliability (%):	90	100	----	----
AC Total Transverse Cracking (ft/mile):	2500	82.93	----	----
Reliability (%):	90	100	----	----
Permanent Deformation - AC Only (in):	0.5	0.08	0.5	0.08
Reliability (%):	90	100	90	100
AC Bottom-Up Fatigue Cracking (%)	25	0	25	7.39
Reliability (%):	90	100	90	100
AC Thermal Cracking (ft/mile)	1500	0.09	1500	145.96
Reliability (%):	90	100	90	100
AC Top-Down Fatigue Cracking (ft/mile):	2500	296.38	2500	624.97
Reliability (%):	90	100	90	100



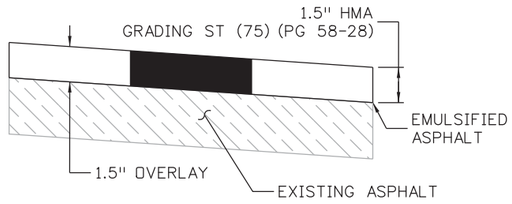
TYPICAL SECTION SH 9

STA 52+80 TO STA 952+00



ASPHALT MILL TRANSITION DETAIL

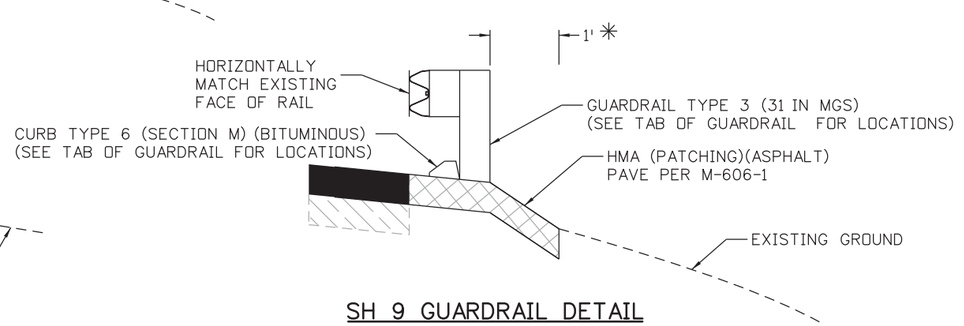
SEE TABULATION OF SURFACING MATERIALS FOR LOCATIONS



SH 9 PAVEMENT SECTION DETAIL

STA 52+80 TO STA 952+00

SH 9 PAVEMENT SAFETY EDGE DETAIL



SH 9 GUARDRAIL DETAIL

Print Date: 1/24/2017		Sheet Revisions			Colorado Department of Transportation
File Name: 21255DES_TyplSect02.dgn		Date:	Comments	Init.	1480 Quail Lake, Suite A Colorado Springs, CO 80906 Phone: 719-634-2323 FAX: 719-227-3298
Horiz. Scale: 1:10 Vert. Scale: N/A					Region 2 DW
TRANSPORTATION AECOM Technical Services, Inc. 2315 Briargate Parkway, Suite 150 Colorado Springs, CO 80920 T 719.531.0001 AECOM www.aecom.com					

As Constructed	SH 9 TYPICAL SECTION			Project No./Code
No Revisions:				STA 0503-089
Revised:	Designer: JAB	Structure Numbers		21255
Void:	Detailer: LMB			
	Subset: TYPICAL	Subset Sheets: 2 of 3		Sheet Number 4

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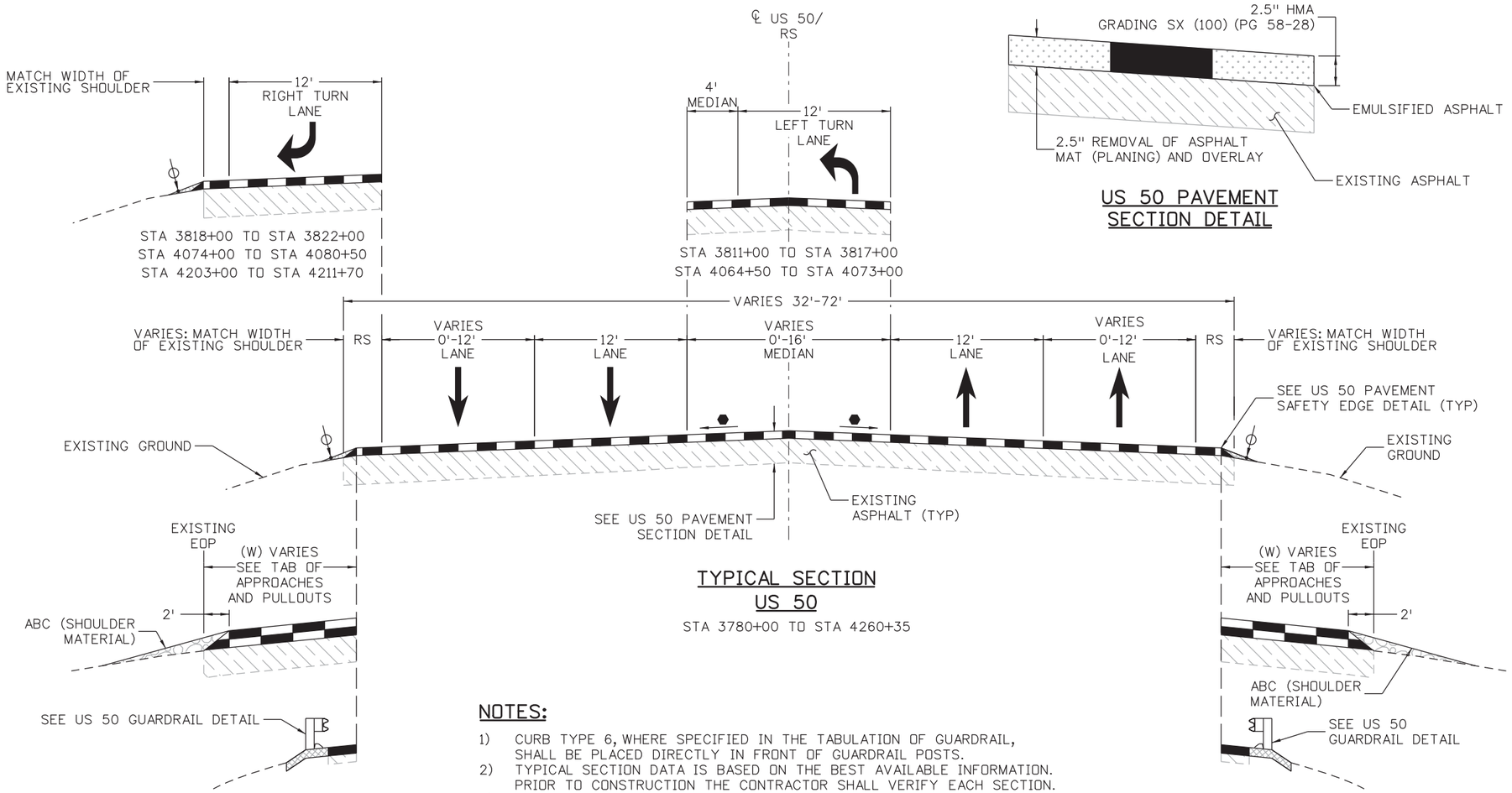

TYPICAL SECTION
US 50
STA 3780+00 TO STA 4260+35

US 50 PAVEMENT SECTION DETAIL

NH 0503-089 (21255)

Design Parameters

	2 1/2" Mill/Fill	Widening Section
Design Life (Years)	10	20
18-Kip ESALS:	880,000	1,925,000
Heavy Trucks (Cumulative):	1,155,660	2,708,780
Operational Speed (MPH):	55	55
Effective Binder Content (%):	11.2	11.3
Voids (%):	5.1	6.7
Widening Pavement Thickness (in):	----	6
ABC Class 6 Thickness (in):	----	12
Milling Thickness (in):	2.5	----
Overlay Thickness (in):	2.5	----
HMA Grading:	SX	SX
HMA Design Gyrations:	100	100
HMA Grading (top lift)	PG 58-28	PG 58-28
HMA Grading (bottom lifts)	----	PG 58-28

Distress Prediction Summary

	Target	Predicted	Target	Predicted
Terminal IRI (in/mile):	200	93.39	200	130.2
Reliability (%):	90	100	90	99.99
Permanent Deformation (in):	0.65	0.11	0.65	0.18
Reliability (%):	90	100	90	100
AC Total Fatigue Cracking(%)	35	7.45	----	----
Reliability (%):	90	100	----	----
AC Total Transverse Cracking (ft/mile):	2500	70.47	----	----
Reliability (%):	90	100	----	----
Permanent Deformation - AC Only (in):	0.5	0.11	0.5	0.08
Reliability (%):	90	100	90	100
AC Bottom-Up Fatigue Cracking (%)	25	0	25	7.39
Reliability (%):	90	100	90	100
AC Thermal Cracking (ft/mile)	1500	0.03	1500	145.96
Reliability (%):	90	100	90	100
AC Top-Down Fatigue Cracking (ft/mile):	2500	261.1	2500	624.97
Reliability (%):	90	100	90	100

NOTES:

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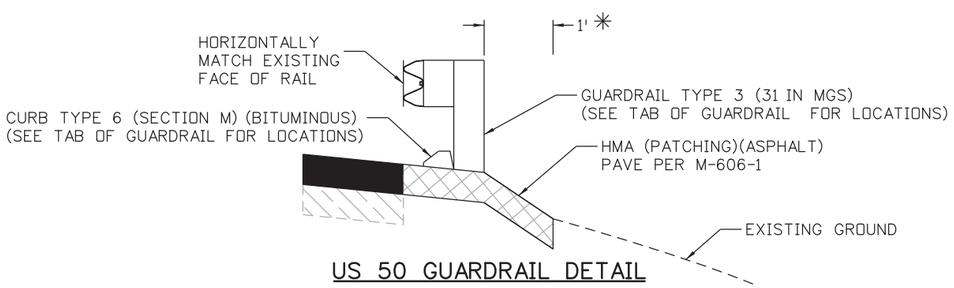

US 50 GUARDRAIL DETAIL

LEGEND:

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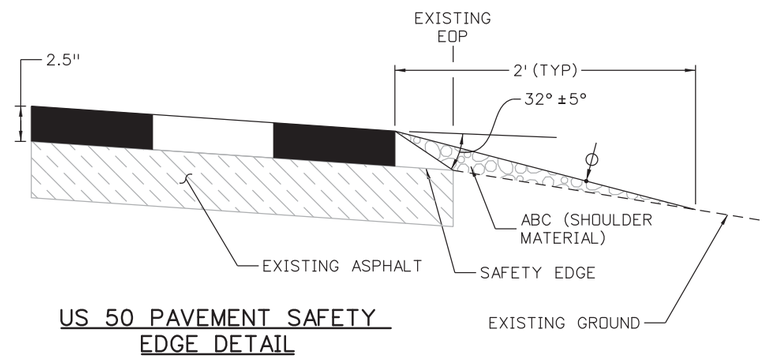

US 50 PAVEMENT SAFETY EDGE DETAIL

Print Date: 1/24/2017	Sheet Revisions			Colorado Department of Transportation	As Constructed
File Name: 21255DES_TyplSect03.dgn	Date:	Comments	Init.	1480 Quail Lake, Suite A Colorado Springs, CO 80906 Phone: 719-634-2323 FAX: 719-227-3298	No Revisions:
Horiz. Scale: 1:10 Vert. Scale: N/A				Region 2 DW	Revised:
TRANSPORTATION AECOM Technical Services, Inc. 2315 Briargate Parkway, Suite 150 Colorado Springs, CO 80920 T 719.531.0001 www.aecom.com					Void:

US 50 TYPICAL SECTION				Project No./Code
				STA 0503-089
Designer: JAB	Structure Numbers			21255
Detailer: LMB				
Subset: TYPICAL	Subset Sheets: 3 of 3			Sheet Number 5

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