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PLANS OF PROPOSED IMPROVEMENT ON THE
PRIMARY ROAD SYSTEM
SAC COUNTY
HMA Resurfacing with Milling
IA 471 to W Jct. US 71

SCALES: As Noted

Refer to the Proposal Form for list of applicable specifications.

Value Engineering Saves. Refer to Article 1105.14 of the Specifications.



DESIGN DATA RURAL			
2024	AADT	2070	V.P.D.
2044	AADT	2484	V.P.D.
20	- DHV	-	V.P.H.
TRUCKS		27.7	%
Total			
Design ESALs		-	

ROADWAY DESIGN	
	<p>I hereby certify that this engineering document was prepared by me or under my direct personal supervision and that I am a duly licensed Professional Engineer under the laws of the State of Iowa.</p> <p><i>Justin M. Pottorff</i> 04/07/2026</p> <p>Signature JUSTIN M. POTTORFF Date</p> <p>Printed or Typed Name</p> <p>My license renewal date is December 31, 2026</p>
Pages or sheets covered by this seal: <u>ALL</u>	

BRIDGE

MP 70.33

FHWA# 46660

BOX CULVERT

MP 72.0

FHWA# 46650

BRIDGE

MP 74.35

FHWA# 46630

STA 43+55.00

BEGIN PROJECT

BEGIN DIV. 2

MP 70.07

STOP DIV. 2.

BEGIN DIV. 1

MP 73.85

STA 243+36.9

STOP DIV. 1

RESUME DIV. 2

MP 75.35

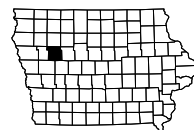
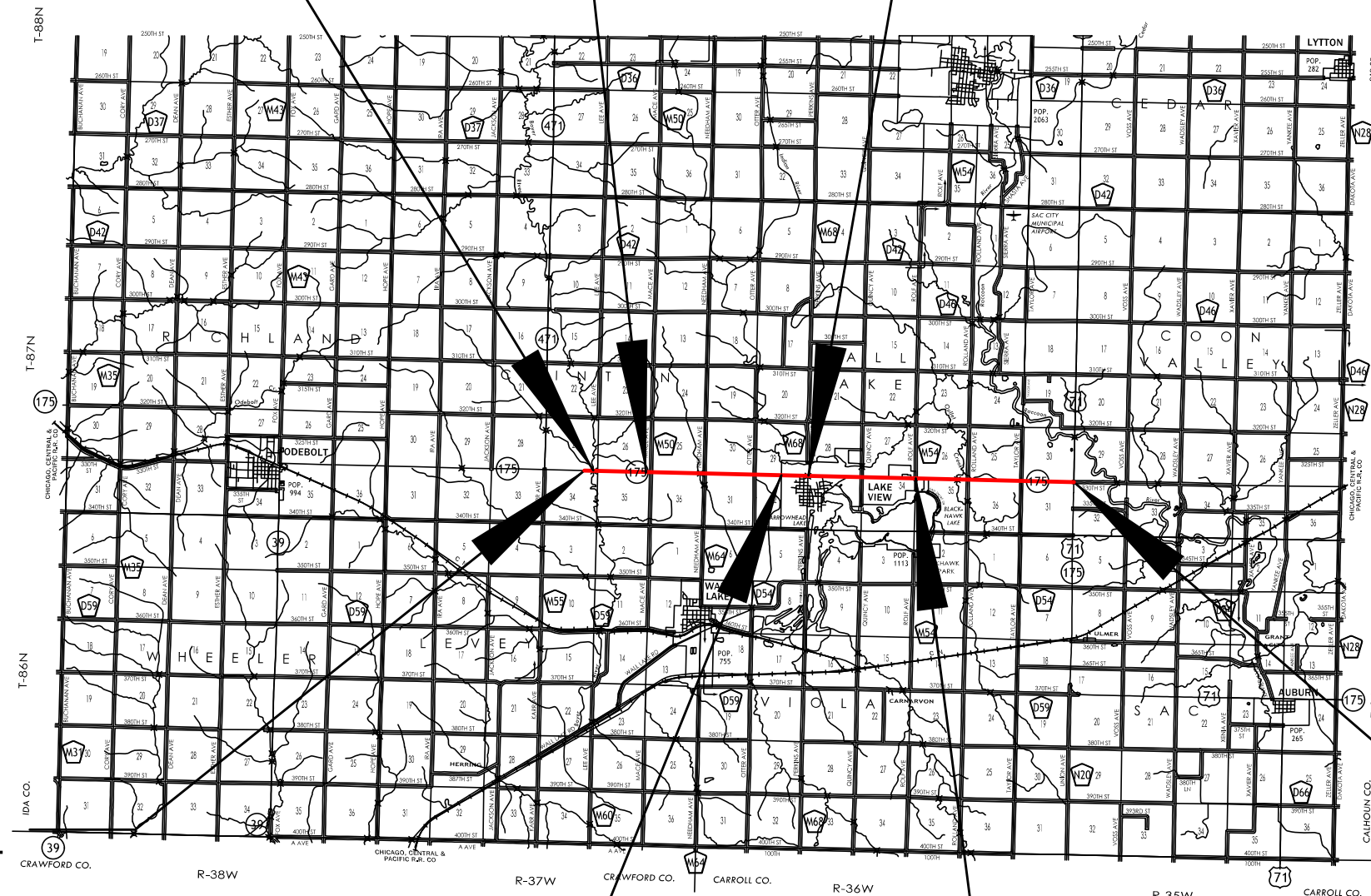
STA 322+83.5

END PROJECT

END DIV. 2

MP 79.31

STA 532+05



STA 162+87.2
STOP HMA OVERLAY
AT BOX CULVERT

STA 163+07.2
BEGIN HMA OVERLAY
AT BOX CULVERT

STA 265+88
STOP HMA OVERLAY
AT W. END OF HIGH
STREET BRIDGE

STA 60+99.0
BEGIN HMA OVERLAY AT
BRIDGE APPROACH
10' OUTSIDE OF EF JOINT

STA 283+81
BEGIN HMA OVERLAY
AT E. END OF HIGH
STREET BRIDGE

STA 55+57.0
STOP HMA OVERLAY AT
BRIDGE APPROACH
10' OUTSIDE OF EF JOINT

STA 416+35
STOP HMA OVERLAY
BEGIN PCC SECTION

STA 418+90
BEGIN HMA OVERLAY
END PCC SECTION

BEGIN PROJECT
STA 43+55.00
MP 70.07
BEGIN HMA OVERLAY

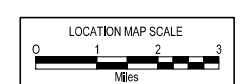
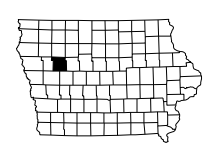
STA 518+40
END HMA OVERLAY
BEGIN PCC SECTION

END PROJECT
STA 532+05
MP 79.31

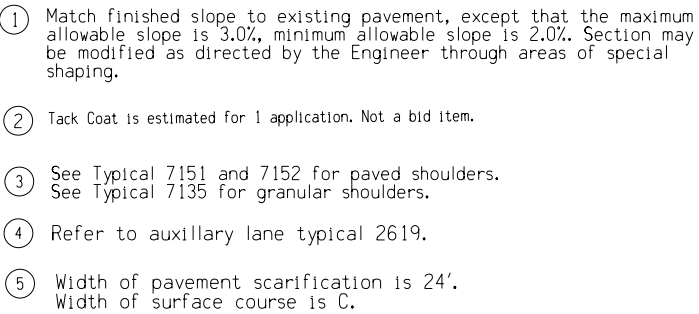
BRIDGE
MP 70.33
FHWA# 46660

BRIDGE
MP 74.35
FHWA# 46630

HMA OVERLAY LIMITS

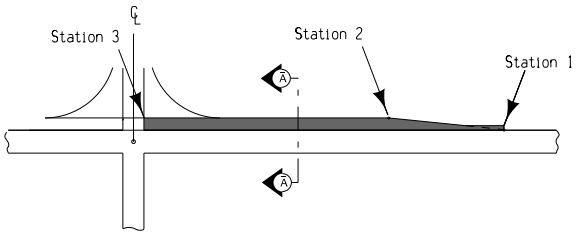


2617A
Modified



TYPICAL CROSS SECTION HMA RESURFACING WITH MILLING

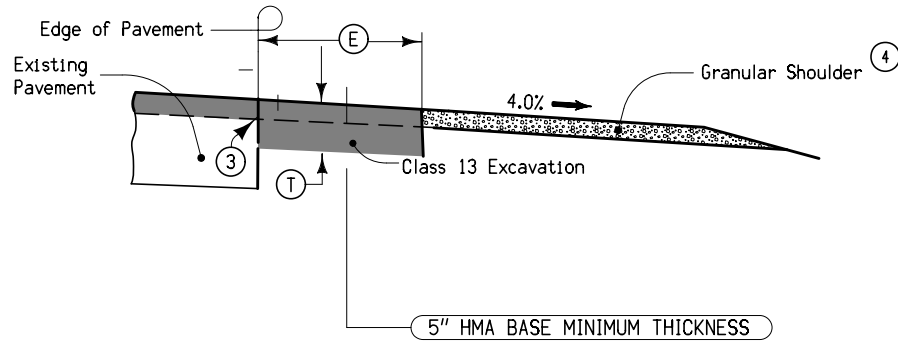
2619R
Modified



- Notes:
- ① Details shall be similar for construction on either side (by stationing) of roadway.
Pavement for auxiliary lane shall be constructed according to requirements specified for through roadway pavement.
 - ② Refer to other drawings for details of shoulder design and construction.
 - ③ Tack Coat is estimated for 1 application. Not a bid item.

TYPICAL HALF SECTION
HMA RESURFACING
EXISTING AUXILIARY LANE

DESIGN RATES		
ITEM	RATE	QUANTITY
Surface Course	147lbs./cu.ft	Tons
Inter. Course	147lbs./cu.ft	Tons
Tack Coat	0.05 gal./sq.yd.	Gal.



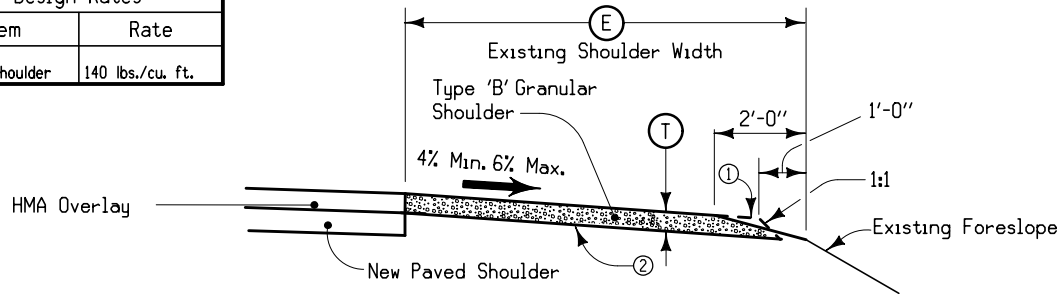
- ① Per side per station.
- ② Bid Items.
- ③ Provide a vertical edge. Incidental to Class 13 Excavation.
- ④ Refer to Typical 7135 for Granular Shoulder details.
- ⑤ The top 4" of the material from the Class 13 excavation is to be placed and shaped on the remaining shoulder outside the Class 13 trench.
- ⑥ At 114+90 turn lane and radius of sideroad we will be removing and replacing radius with 4' paved shoulders.
- ⑦ Tack Coat is estimated for 1 application. Not a bid item.

TYPICAL SECTION
RETROFIT PAVED SHOULDER

7151
Modified

Quantities ① ②												
Location				①	②	Class 13 Excavation, Widening Cu. Yds.	Hot Mix HMA Base Widening Tons	Base Binder 58-28S Tons	HMA Surface Hi Pro Tons	Surface Binder 64-34E+ Tons	Tack Coat Gals. ⑦	Blade & Shape STA
Road Identification	Station To Station		Side	Feet	Inches							
IA 175	43+55	55+07.5	RT	4	6.5	8.02	12.08	0.73	3.68	0.29	2.22	1
IA 175	61+22.5	261+38	RT	4	6.5	8.02	12.08	0.73	3.68	0.29	2.22	1
IA 175	238+81	301+77	RT	4	8.0	9.88	15.71	0.94	3.68	0.29	2.22	1
IA 175	302+68	303+00	RT	4	8.0	9.88	15.71	0.94	3.68	0.29	2.22	1
IA 175	304+00	306+80	RT	4	8.0	9.88	15.71	0.94	3.68	0.29	2.22	1
IA 175	308+28	322+83.5	RT	4	8.0	9.88	15.71	0.94	3.68	0.29	2.22	1
IA 175	322+83.5	518+40	RT	4	6.5	8.02	12.08	0.73	3.68	0.29	2.22	1
IA 175	43+55	55+32.4	LT	4	6.5	8.02	12.08	0.73	3.68	0.29	2.22	1
IA 175	60+97.6	258+07	LT	4	6.5	8.02	12.08	0.73	3.68	0.29	2.22	1
IA 175	283+81	289+70	LT	4	8.0	9.88	15.71	0.94	3.68	0.29	2.22	1
IA 175	290+67	302+95	LT	4	8.0	9.88	15.71	0.94	3.68	0.29	2.22	1
IA 175	309+00	322+83.5	LT	4	8.0	9.88	15.71	0.94	3.68	0.29	2.22	1
IA 175	322+83.5	518+40	LT	4	6.5	8.02	12.08	0.73	3.68	0.29	2.22	1
					TOTAL	7625.9	11577.2	694.6	3396.9	271.8	2054.0	924.3

Design Rates	
Item	Rate
Granular Shoulder	140 lbs./cu. ft.

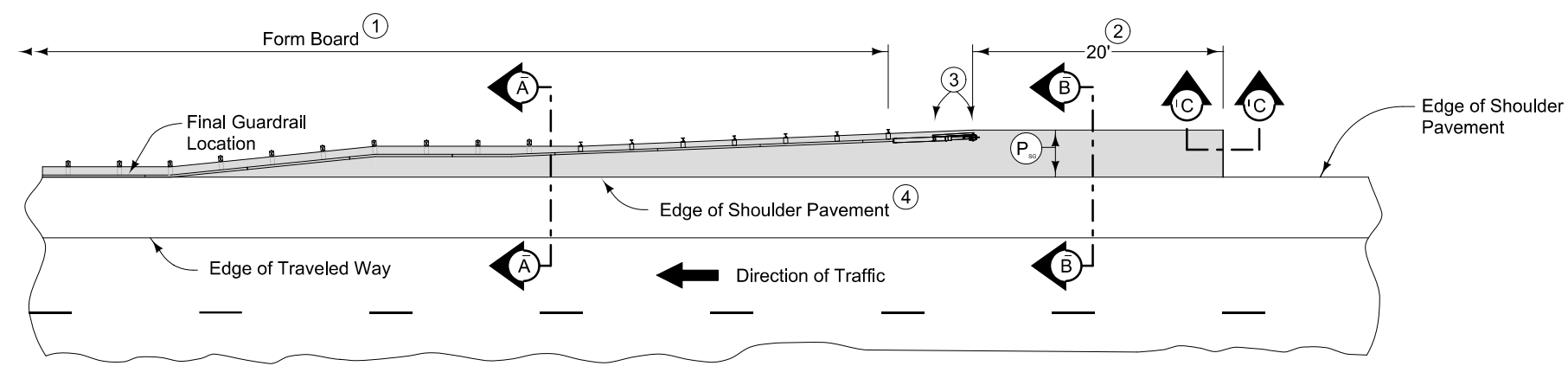


- ① Place and compact material to the dashed lines; then blade and shape to foreslope that portion above the solid line in the outer 2' and roll with loaded truck tire.
- ② Existing shoulder surface to be shaped to a uniform cross slope prior to placing granular shoulder material. Shape to ensure the thickness of the granular shoulder material is not less than the thickness of the resurfacing.
- ③ Per side per station.
- ④ Material to dress existing granular shoulder.

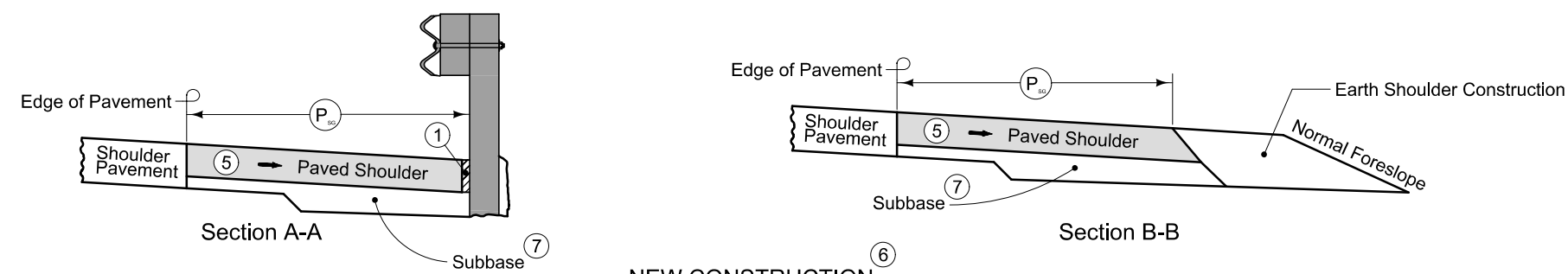
7135
Modified

LOCATION				①	②	CLASS B MATERIAL TONS ③
ROAD IDENTIFICATION	STA to STA		SIDE	Inches	Feet	
IA 175	43+55	261+38	RT	3	6	10.5
IA 175	284+95	301+77	RT	3	6	10.5
IA 175	302+68	303+00	RT	3	6	10.5
IA 175	304+00	306+80	RT	3	6	10.5
IA 175	308+28	518+40	RT	3	6	10.5
IA 175	518+40	532+00	RT	3	6	10.5
IA 175						
IA 175	43+55	258+07	LT	3	6	10.5
IA 175	283+81	289+70	LT	3	6	10.5
IA 175	290+67	302+95	LT	3	6	10.5
IA 175	309+00	518+40	LT	3	6	10.5
IA 175	518+40	532+00	LT	3	6	10.5
					TOTAL	9587.8

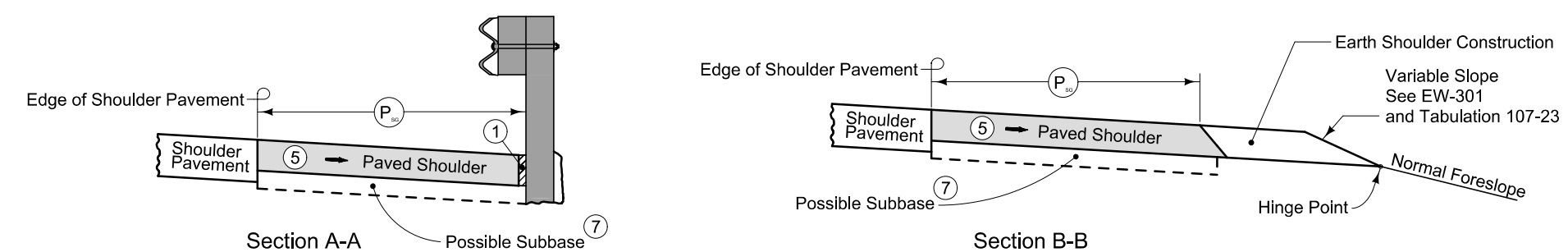
TYPICAL SECTION
FOR TYPE 'B'
GRANULAR SHOULDER
ADJACENT TO HMA
OVERLAY



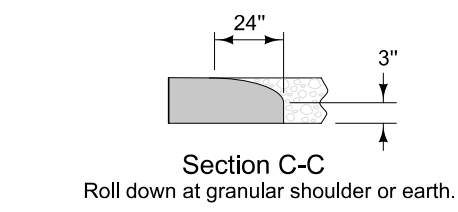
PLAN VIEW



NEW CONSTRUCTION



EXISTING SHOULDER



PAVED SHOULDER AT GUARDRAIL
(ADJACENT TO FULL WIDTH PAVED SHOULDER)

DESIGNER
INFO

7158
04-19-22

9" HMA Paved Shoulder at guardrail. 8" PCC may be substituted with the following jointing layout:

Match mainline pavement joint spacing. When mainline pavement is 8" or greater in thickness, place additional transverse 'C' joints in shoulder at mid-panel of the mainline pavement. Place longitudinal 'C' joint at P/2 from edge of mainline pavement when P is greater than 10' wide. Terminate longitudinal joint at transverse joint less than 10' in length.

Compaction of HMA is required to face of guardrail post. Hand compaction will be allowed under guardrail. Removal and reinstallation of guardrail will be allowed with no additional payment.

Refer to Tabulation 112-9 for shoulder quantities.

- ① PCC option only: When guardrail posts are installed prior to construction of PCC paved shoulder, fasten form board to the face of guardrail posts for the length shown.
- ② Continue paved shoulder 20 feet beyond the center of the first post.
- ③ Shoulder may be notched for first 2 posts or post sleeves may be installed through pavement. Do not drive posts through pavement.
- ④ 'KT' (per PV-101) joint for PCC shoulder.
'B' (per PV-101) joint for HMA shoulder.
- ⑤ Match shoulder slope.
- ⑥ The Contractor has the option to pave the paved shoulder at guardrail and the full width paved shoulder as one operation.
- ⑦ Refer to other details in the plan.

ESTIMATED PROJECT QUANTITIES AND REFERENCE NOTES

Division 2 : Rural
Division 1 : Urban

Item no.	Item Code	Item	Unit	Quantities			Estimate Reference Notes
				Estimated			
				Division 2	Division 1	Total	
1	2102-2625000	EMBANKMENT-IN-PLACE	CY	254		254	Provide borrow material according to Section 2102 of the Standard Specifications. 254.1 CY for the use of grading at guardrail. Refer to Tabulation 107-23. Material shall be provided by the Contractor
2	2102-2713090	EXCAVATION, CLASS 13, WASTE	CY	6,988.9	919.3	7,908.2	Dispose of excess material according to Article 1106.07 of the current specifications. 6706.6 and 109.1 CY's respectively for paved shoulder installation. Refer to Typical 7151, and 7152. 173.2 CY's to be used for grading for guardrail. Refer to Tabulation 107-23. <hr/> Dispose of excess material according to Article 1106.07 of the current specifications. 919.3 CY's for paved shoulder installation. Refer to Typical 7151.
3	2121-7425020	GRANULAR SHOULDERS, TYPE B	TON	8,546.1	1,041.7	9,587.8	Refer to Typical 7135. To be provided by the Contractor, which shall be considered incidental to this bid item.
4	2123-7450020	SHOULDER FINISHING, EARTH	STA	6.95		6.95	A. Includes 6.95 stations of nominal 16.6 ft. wide shoulder when complete. B. Material for the earth shoulders is included in the template quantities. Refer to U.1
5	2212-0475095	CLEANING AND PREPARATION OF BASE	MILE	7.74	1.51	9.25	This bid item includes: 1.51 miles of two-lane roadway. <hr/> This bid item includes: 7.74 miles of two-lane roadway.

Item no.	Item Code	Item	Unit	Quantities			Estimate Reference Notes
				Estimated			
				Division 2	Division 1	Total	
6	2212-5070310	PATCHES, FULL-DEPTH REPAIR	SY	656.1	24	680.1	Refer to Tab. 102-06C
7	2212-5070330	PATCHES BY COUNT (REPAIR)	EACH	78	3	81	Refer to Tab. 102-06C
8	2212-5075001	HOT MIX ASPHALT SURFACE PATCHES	TON	38.7	7.55	46.25	Assumed 5 tons per mile. To be used at the engineers discretion.
9	2214-5145150	PAVEMENT SCARIFICATION, NOMINAL THICKNESS	SY	104,744.8	16,766.5	121,511.3	Refer to typical 2617A and 2619R
10	2214-7450050	BLADING AND SHAPING SHOULDER MATERIAL	STA	817.97	99.21	917.18	
11	2301-0690203	BRIDGE APPROACH, BR-203	SY	333.4		333.4	Refer to Tab. 112-06.
12	2303-0003380	HOT MIX ASPHALT MIXTURE THIN LIFT SURFACE COURSE, 3/8 IN. MIX	TON	11,569	1,751	13,320	Refer to typical 2617A for mainline surfacing. Refer to typicals 7151 and 7152 for shoulder surfacing.
13	2303-1031750	HOT MIX ASPHALT STANDARD TRAFFIC, BASE COURSE, 3/4 IN. MIX	TON	10,048.11	1,439.87	11,487.98	Refer to typicals 7151 and 7152 for base shoulder mix.
14	2303-1043500	HOT MIX ASPHALT HIGH TRAFFIC, SURFACE COURSE, 1/2 IN. MIX, NO SPECIAL FRICTION REQUIREMENT	TON	117.23	30.89	148.12	Refer to typical 2619R for auxiliary lane surfacing.
15	2303-1258283	ASPHALT BINDER, PG 58-28S, STANDARD TRAFFIC	TON	602.89	86.39	689.28	Refer to typicals 7151 and 7152 for base shoulder mix.
16	2303-1258284	ASPHALT BINDER, PG 58-28H, HIGH TRAFFIC	TON	7.03	1.85	8.88	Refer to typical 2619R for auxiliary lane surfacing.
17	2303-1264347	ASPHALT BINDER, PG 64-34E+, EXTREMELY HIGH TRAFFIC, 90% ELASTIC RECOVERY	TON	926.11	139.49	1,065.6	Refer to typical 2617A for mainline surfacing. Refer to typicals 7151 and 7152 for shoulder surfacing.
18	2303-6911000	HOT MIX ASPHALT PAVEMENT SAMPLES	LS	0.9	0.1	1	
19	2317-7000120	PAYMENT ADJUSTMENT INCENTIVE/DISINCENTIVE FOR HMA PAVEMENT SMOOTHNESS (BY SCHEDULE)	EACH	25,139	4,024	29,163	
20	2505-4008120	REMOVAL OF STEEL BEAM GUARDRAIL	LF	510		510	Refer to Tab. 110-07A.
21	2505-4008300	STEEL BEAM GUARDRAIL	LF	350		350	Refer to Tab. 108-08A. Refer to U.1 for supplemental guardrail information.
22	2505-4008410	STEEL BEAM GUARDRAIL BARRIER TRANSITION SECTION, BA-201	EACH	4		4	
23	2505-4021720	STEEL BEAM GUARDRAIL TANGENT END TERMINAL, BA-205	EACH	4		4	
24	2510-6745850	REMOVAL OF PAVEMENT	SY	435.6		435.6	Refer to Tabs.110-1 and 102-5.

Item no.	Item Code	Item	Unit	Quantities			Estimate Reference Notes
				Estimated			
				Division 2	Division 1	Total	
25	2524-6765010	REMOVE AND REINSTALL SIGN AS PER PLAN	EACH	2		2	<p>Refer to Tabulations 190-61.</p> <p>The Contractor shall remove each sign and the hardware used to secure the sign to another sign, posts, or sign support structure. For signs mounted directly to posts, removal of the sign shall include removal of the posts. New posts shall be steel breakaway sign posts.</p> <p>Wood posts removed shall become the property of the contractor.</p> <p>**The existing sign shall be removed and stored. The Contractor shall remove the sign and transport it to a DOT storage area within 50 miles, as designated by the Engineer. The Contractor shall transport the sign back to the job site when ready for reinstallation.</p> <p>The Contractor shall furnish all necessary hardware to install the signs. When the new installation is similar to the original installation, unless otherwise noted, the existing hardware may be used to reinstall the sign.</p> <p>Signs damaged by the Contractor's activities shall be replaced at the Contractor's expense. Replacement materials shall be new. The DOT will furnish all details necessary for fabrication of the replacement materials.</p> <p>METHOD OF MEASUREMENT: The Engineer will count each sign removed and reinstalled.</p> <p>BASIS OF PAYMENT: For each sign removed and reinstalled, the Contractor shall be paid the contract unit price.</p>
26	2524-9265010	POSTS, STEEL, AS PER PLAN	EACH	1		1	<p>The post shall have the following requirements:</p> <p>The bottom of the bottom sign shall be 5-ft from top of concrete.</p> <p>Top of the post shall accommodate existing STOP SIGN (R1-1) and cross traffic does not stop (W-4-4P) signs.</p>
27	2524-9276024	PERFORATED SQUARE STEEL TUBE POST ANCHOR, BREAK-AWAY CONCRETE INSTALLATION	EACH	1		1	Refer to Tabulation 190-61 for location and detail.
28	2526-8285040	CONSTRUCTION SURVEY, LOCATION SURVEY	LS	0.9	0.1	1	<p>Survey required to be furnished for the construction of the project includes, but is not limited to, guardrail, bridge approaches, and sidewalk.</p> <p>Survey required to be furnished for the construction of the project includes, but is not limited to, guardrail, bridge approaches, and sidewalk.</p>
29	2527-9263155	PRE-CUT SYMBOLS AND LEGENDS, PREFORMED THERMOPLASTIC MARKING MATERIAL	EACH	12	5	17	Refer to Tab. 108-29.
30	2527-9263181	PAVEMENT MARKINGS REMOVED	STA	33.75		33.75	Refer to Tab 108-22.
31	2527-9263209	PAINTED PAVEMENT MARKINGS, WATERBORNE OR SOLVENT-BASED	STA	2,695.27	769.83	3,465.1	Refer to Tab. 108-22.
32	2527-9263225	PERMANENT TAPE MARKINGS, PREFORMED THERMOPLASTIC MARKING MATERIAL	STA	2.16		2.16	Refer to Tab 108-22.

Item no.	Item Code	Item	Unit	Quantities			Estimate Reference Notes
				Estimated			
				Division 2	Division 1	Total	
33	2527-9263231	REMOVABLE TAPE MARKINGS, WET RETROREFLECTIVE	STA	122.88		122.88	Refer to Tab 108-22. Payment includes removing wet retroreflective removeable tape markings.
34	2527-9270112	GROOVES CUT FOR PAVEMENT MARKINGS	STA	791.22	256.61	1,047.83	Refer to Tab. 108-22.
35	2527-9270120	GROOVES CUT FOR SYMBOLS AND LEGENDS	EACH	12	5	17	Refer to Tab. 108-29.
36	2528-8400048	TEMPORARY BARRIER RAIL, CONCRETE	LF	712		712	Refer to Sheet J.2 and Tab. 108-33. All temporary barrier rail shall be nominal 12'-6 long concrete units. Temporary barrier rail shall be a combination of 57 nominal 12'-6 long concrete unit.
37	2528-8400256	TEMPORARY TRAFFIC SIGNALS	EACH	1		1	Refer to Tab. 108-28.
38	2528-8445110	TRAFFIC CONTROL	LS	0.9	0.1	1	Refer to Traffic Control Plan on Sheet J.1
39	2528-8445113	FLAGGERS	EACH	0		0	See Proposal.
40	2528-8445115	PILOT CARS	EACH	0		0	
41	2529-5070110	PATCHES, FULL-DEPTH FINISH, BY AREA	SY	37.5		37.5	Refer to Tab. 102-06C. Removal of raised stop island.
42	2529-5070120	PATCHES, FULL-DEPTH FINISH, BY COUNT	EACH	1		1	Refer to Tab. 102-06C.
43	2533-4980005	MOBILIZATION	LS	0.9	0.1	1	- -
44	2548-0000100	MILLED SHOULDER RUMBLE STRIPS, HMA SURFACE	STA	660.5	159	819.5	Refer to Tab. 112-10.
45	2548-0000110	ASPHALT EMULSION FOR FOG SEAL (SHOULDER RUMBLE STRIPS)	GAL	715.57	172.23	887.8	
46	2548-0000310	MILLED CENTERLINE RUMBLE STRIPS, HMA SURFACE	STA	330.25	79.5	409.75	
47	2548-0000317	ENGINEERED EMULSION FOR FOG SEAL (CENTERLINE RUMBLE STRIPS)	SY	5,507.25	1,321.95	6,829.2	
48	2551-0000110	TEMP CRASH CUSHION	EACH	2		2	Winterize sand filled or water filled crash cushions according to the manufacturer's recommendations if they are to remain in place during winter months.

PROJECT DESCRIPTION		100_01D 8/15/22
This is a HMA Resurfacing with Milling project on IA 175 from IA 471 to W Jct. US 71. Other work includes shoulders, patching, shoulder and centerline rumble strips, bridge approach repair, paint marking and grooving.		

EXISTING PAVEMENT																				102_05 9/29/23
County	Route	Direction of Travel	Begin Ref. Location Sign	End Ref. Location Sign	Year	Type	Project Number	Surface Type	Surface Depth (IN)	Base Type	Base Depth (IN)	Subbase Type	Subbase Depth (IN)	Removal Type	Removal Depth (IN)	Coarse Aggregate Source	Coarse Aggregate Type	Course Aggregate Durability Class	Reinforcement Type	Remarks
Sac	IA-175		69.57	78.81	2023	M	MP-175-3(707)87--76-81													HMA crack filling
	IA-175		69.57	78.81	2021	M	MP-175-3(705)69--76-81													HMA crack filling
	IA-175		69.57	78.81	2014		NHSN-071-6(48)--2R-81	MSS												
	IA-175		69.57	78.81	1985		FN-71-6(16)--21-81	AAC	1.5	TBB	1.5			MIL	3.0	ULMER PIT	GRAVEL			
	IA-175		69.57	78.81	1971		FN-71-6(8)--21-81	AAC	1.0	AAC	2.0					FT. DODGE MINE	C.LST.			
	IA-175		69.57	78.81	1938		FA-743A(1)	PC7	7.5							SACTON	GRAVEL	3		

<div>105_04 4/21/26</div> <div>STANDARDS</div> <div>The following Standards apply to construction work on this project.</div>		
Number	Date	Title
BR-203	10/21/2025	Double Reinforced 12in Approach
BR-211	10/21/2025	Bridge Approach (Abutting PCC or Composite Pavement)
DR-306	10/17/2023	Precast Concrete Headwall for Subdrain Outlets
PM-110	10/15/2024	Line Types
PM-111	4/21/2020	Symbols and Legends
PM-120	10/15/2024	Stop Lines and Islands
PM-116	4/16/2024	Grooving for Symbols and Legends
PM-521	10/15/2024	Two-Lane Roadway with Right Turn Lanes
PR-103	10/21/2025	Full Depth PCC Patch with Dowels
PR-202	10/21/2014	Notches for Resurfacing (with or without Runout)
PV-12	4/16/2024	Milled Shoulder Rumble Strips
PV-13	4/16/2024	Milled Centerline Rumble Strips
PV-101	10/21/2025	Joints
PV-202	4/21/2020	Hot Mix Asphalt Resurfacing
SI-101	4/19/2016	Locations - Type 'A' Signs
SI-113	10/15/2019	Support Structures - Steel Breakaway Posts
SI-211	10/18/2022	Object Marker and Delineator Placement with Guardrail
SI-881	4/16/2019	Special Signs for Workzones
TC-1	10/15/2019	Work Not Affecting Traffic (Two-Lane or Multi-Lane)
TC-81	4/18/2023	Restricted Width Signing (Less Than 15.5 Feet)
TC-202	4/18/2023	Work Within 15 ft of Traveled Way
TC-212	4/18/2023	Spot Location Lane Closure with Flaggers
TC-213	4/18/2023	Lane Closure with Flaggers
TC-214	4/18/2023	Lane Closure with Flaggers for use with Pilot Car
TC-217	10/21/2025	Lane Closure with Signals and TBR
TC-231	4/18/2023	Slow Moving Vehicle Operating in the Traffic Lane
TC-232	10/21/2014	Shoulder Rumble Strip Operations
TC-233	10/17/2017	Pavement Marking Operations Two-Lane
TC-282	10/15/2019	Uneven Lanes

<div>112_10 4/15/25</div> <div>MILLED RUMBLE STRIPS</div> <div>* Calculated at 18" width for Shoulder. ** For use with penetrating Engineered Fog Seal. Calculated at 2" wider than rumble strips.</div>												
Line No.	Road Identification	Station From	Station To	Shoulder Pavement Type	Rumble Strip Lane	Rumble Strip Type	Fog Seal Type	L (IN)	HMA Length (STA)	Fog Seal* Shoulder (GAL)	Fog Seal (SY)**	Remarks
1.0	IA 175	43+55.00	248+90.00	HMA	Right Shoulder	Milled	Asphalt Emulsion	12"	205.35	222.5		
2.0	IA 175	43+55.00	248+90.00	HMA	Centerline	Milled	Penetrating Engineered	12"	205.35		3422.5	
3.0	IA 175	43+55.00	248+90.00	HMA	Left Shoulder	Milled	Asphalt Emulsion	12"	205.35	222.5		
4.0	IA 175	327+90.00	532+30.00	HMA	Right Shoulder	Milled	Asphalt Emulsion	12"	204.40	221.4		
5.0	IA 175	327+90.00	532+30.00	HMA	Centerline	Milled	Penetrating Engineered	12"	204.40		3406.7	
6.0	IA 175	327+90.00	532+30.00	HMA	Left Shoulder	Milled	Asphalt Emulsion	12"	204.40	221.4		

PROPOSED POSTED SPEED LIMIT		
Roadway Identification	Proposed Posted Speed	Remarks
IA 175	over 45	MP 69.68 to MP 73.6
IA 175	40-45	MP 73.6 to MP 74.0
IA 175	over 45	MP 74.0 to MP 78.67

100_27
8/15/22

107_23
8/15/22

GRADING FOR GUARDRAIL INSTALLATIONS																
Refer to EW-301.																
(1) Lane(s) to which the installation is adjacent.																
Line No.	Direction of Traffic (1)	Station	Side	Foreslope at Guardrail	X1 (FT)	Y1 (FT)	X2 (FT)	Y2 (FT)	X3 (FT)	Y3 (FT)	X4 (FT)	Y4 (FT)	Z (FT)	Excavation Class 10 (CY)	Embankment-in-Place (CY)	Remarks
1.0	EB	57+13.50	Right	4	53.1	8.0	117.4	14.4	117.4	14.4	173.5	16.7	82.1	43.3	63.5	Refer to U.1
2.0	WB	57+13.50	Left	4	53.1	8.0	117.4	14.4	117.4	14.4	173.5	16.7	82.1	43.3	63.5	Refer to U.1
3.0	EB	59+16.50	Right	4	53.1	8.0	117.4	14.4	117.4	14.4	173.5	16.7	82.1	43.3	63.5	Refer to U.1
4.0	WB	59+16.50	Left	4	53.1	8.0	117.4	14.4	117.4	14.4	173.5	16.7	82.1	43.3	63.5	Refer to U.1

Line No.	Direction of Travel (1)	Side	Station	Offset (FT)	Barrier Transition Section	Barrier Transition Section (EA)	End Terminal	End Terminal Count (EA)	VT1 (LF)	VF (LF)	VT2 (LF)	ET (LF)	BA-211 Station	BA-211 (Type)	SI-211 (Type) (2)	Delineator SI-172 Type 1 (EA) (2)	Object Marker Type 2 (EA) (2)	Object Marker Type 3 Lt (EA)(2)	Object Marker Type 3 Rt (EA)(2)	Bolted End Anchor BA-202 (Type)	Bolted End Anchor BA-202 (EA)	Post Adapter BA-210 (EA)	Steel Beam Guardrail BA-200 (LF)	Remarks
1.0	EB	Right	57+13.50	15.0	BA-201	1	BA-205	1	53.125	75.00		47.70			2	6	3		1				87.5	Refer to U.1
2.0	WB	Left	57+13.50	15.0	BA-201	1	BA-205	1	53.125	75.00		47.70			2	6	3	1					87.5	Refer to U.1
3.0	EB	Right	59+16.50	15.0	BA-201	1	BA-205	1	53.125	75.00		47.70			2	6	3		1				87.5	Refer to U.1
4.0	WB	Left	59+16.50	15.0	BA-201	1	BA-205	1	53.125	75.00		47.70			2	6	3	1					87.5	Refer to U.1

102_16
11/1/24

NOTCHES AND RUNOUTS FOR RESURFACING									
Refer to PR-201 and PR-202.									
(1) Bid item. Applies only to Types 'N1' and 'N3' on PR-202. Refer to 100-25 for remaining values.									
Line No.	Station	Type of Notch or Runout	S (IN)	I (IN)	DI (IN)	L (FT)	M (IN)	Pavement Scarification (SY) (1)	Remarks
1.0	43+55.00	Type N2		1.5			1.5		
2.0	57+38.70	Type N2		1.5			1.5		
3.0	57+77.99	Type N2		1.5			1.5		
4.0	162+87.20	Type N3		1.5			1.5		
5.0	163+07.20	Type N4		1.5			1.5		
6.0	265+88.00	Type N2		1.5			1.5		
7.0	283+81.00	Type N2		1.5			1.5		
8.0	416+35.00	Type N2		1.5			1.5		
9.0	418+90.00	Type N2		1.5			1.5		
10.0	518+40.00	Type N2		1.5			1.5		

108_22

11/25/25

PAVEMENT MARKING LINE TYPES

Line factors based on 6-inch wide continuous line.

*BCY4 - Place on the same side of the roadway to match existing markings near the project.

**NPY4 - Estimating purposes only. No Passing Zone Lines will be located in the field.

***MNY6 - Factor of 1.00 includes number of 6-inch passes to cover median nose area.

BCY4: Broken Centerline (Yellow) @ 0.17

CBW6: Crosswalk Bar (White) @ 10.00

CLW6: Crosswalk Line (White) @ 2.00

DLW4: Dotted Line (White) @ 0.22

ELW6: Edge Line Right (White) @ 1.00

MNY6: Median Nose (Yellow) @ 1.00

RLY4: Ramp Edge Line Left (Yellow) @ 0.67

SPW4: Sloped Curb 4" (White) @ 2.16

STY6: Standard Curb 6" (Yellow) @ 2.03

BCY6: Broken Centerline (Yellow) @ 0.25

CHW8: Channelizing Line (White) @ 1.33

DCY4: Double Centerline (Yellow) @ 1.34

DLW6: Dotted Line (White) @ 0.33

ELY4: Edge Line Left (Yellow) @ 0.67

NPY4: No Passing Zone Line (Yellow) @ 0.84

RLY6: Ramp Edge Line Left (Yellow) @ 1.00

SPW6: Sloped Curb 6" (White) @ 2.28

YLW2: Yield Line (White) @ 1.15

BLC6: Broken Line Contrast (White/Black) @ 0.50

CHW10: Channelizing Line (White) @ 1.67

DCY6: Double Centerline (Yellow) @ 2.00

DLY4: Dotted Line (Yellow) @ 0.22

ELY6: Edge Line Left (Yellow) @ 1.00

NPY6: No Passing Zone Line (Yellow) @ 1.25

SLW2: Stop Line (White) @ 4.00

SPY4: Sloped Curb 4" (Yellow) @ 2.16

BLW4: Broken Lane Line (White) @ 0.17

CHY8: Channelizing Line (Yellow) @ 1.33

DDY4: Double Dotted Line (Yellow) @ 0.44

DLY6: Dotted Line (Yellow) @ 0.33

LDW8: Lane Drop (White) @ 0.33

RLW4: Ramp Edge Line Right (White) @ 0.67

SLW4: Solid Lane Line (White) @ 0.67

SPY6: Sloped Curb 6" (Yellow) @ 2.28

BLW6: Broken Lane Line (White) @ 0.25

CHY10: Channelizing Line (Yellow) @ 1.67

DDY6: Double Dotted Line (Yellow) @ 0.67

ELW4: Edge Line Right (White) @ 0.67

LDW10: Lane Drop (White) @ 0.42

RLW6: Ramp Edge Line Right (White) @ 1.00

SLW6: Solid Lane Line (White) @ 1.00

STW6: Standard Curb 6" (Yellow) @ 2.03

Line No.	Road ID	Begin Ref. Location Sign	End Ref. Location Sign	Line Length (STA)	Lane	Marking Type	Left	Center	Right	Groove Marking Needed?	Groove Qty. (STA)	BCY6 (STA)	BCY6 Factored (STA)	DCY6 (STA)	DCY6 Factored (STA)	ELW4 (STA)	ELW4 Factored (STA)	ELW6 (STA)	ELW6 Factored (STA)	ELY4 Factored (STA)	NPY6** (STA)	NPY6** Factored (STA)	SLW2 (STA)	SLW2 Factored (STA)	Remarks				
116.0	IA 175	67.82	67.85	1.58	EB	Waterborne/Solvent Paint			x	Yes	1.58							1.58	1.58						PERMANENT				
117.0	IA 175	68.71	68.73	1.06	EB	Waterborne/Solvent Paint	x			Yes	1.06							1.06	1.06						PERMANENT				
												1047.83	181.41	285.18											2875.51	693.36			
Marking Type Waterborne/Solvent Paint:																													
Number of records:116																													
119.0	US 71	70.74	70.74		Both	Wet Retroreflective Removable Tape	x		x														0.24	1.44	TC-217				
120.0	US 71	70.18	70.47		Both	Wet Retroreflective Removable Tape	x		x							120.00	120.00								TC-217 8 TAPE				
122.0	US 71	70.18	70.18		Both	Wet Retroreflective Removable Tape	x		x														0.24	1.44	TC-217				
												120										2.88							
Marking Type Wet Retroreflective Removable Tape:																													
Number of records: 3																													
Total:												1048.37	185.16	285.18	120	2905.51	693.36				5.04								

<div>101_10 1/17/24</div> <div>PAINTED ISLANDS</div> <div>Refer to PM-110, 560-5, and 108-22.</div> <div>Offsets are located from mainline.</div>								
Line No.	Road Identification	Point A Station	Point A Offset (FT)	Point B Station	Point B Offset (FT)	Point C Station	Point C Offset (FT)	Remarks
	IA 175	167+93.00	14.0	167+93.00	14.0	167+93.00	39.0	

PAVEMENT MARKING SYMBOLS AND LEGENDS							108_29 4/15/25
Refer to PM-111							
Line No.	Roadway Identification	Station	Side	Pavement Symbol	Quantity (EA)	Groove Marking Needed?	Remarks
1.0	IA 175	112+20.00	Right	RTAW	1	Yes	Mace Ave
2.0	IA 175	113+20.00	Right	RTAW	1	Yes	Mace Ave
3.0	IA 175	116+70.00	Left	RTAW	1	Yes	Mace Ave
4.0	IA 175	117+70.00	Left	RTAW	1	Yes	Mace Ave
5.0	IA 175	165+00.00	Left	RTAW	1	Yes	Needham Ave
6.0	IA 175	166+00.00	Left	RTAW	1	Yes	Needham Ave
7.0	IA 175	306+07.00	Left	RTAW	1	Yes	Caseys Entrance
8.0	IA 175	307+01.00	Left	RTAW	1	Yes	Caseys Entrance
9.0	IA 175	308+41.00	Left	RTAW	1	Yes	Caseys Entrance
10.0	IA 175	320+90.00	Right	RTAW	1	Yes	Quincy Ave
11.0	IA 175	321+90.00	Right	RTAW	1	Yes	Quincy Ave
12.0	IA 175	373+70.00	Right	RTAW	1	Yes	Rolf Ave
13.0	IA 175	374+70.00	Right	RTAW	1	Yes	Rolf Ave
14.0	IA 175	378+05.00	Right	RTAW	1	Yes	Rolf Ave
15.0	IA 175	379+05.00	Right	RTAW	1	Yes	Rolf Ave
16.0	IA 175	382+12.00	Left	RTAW	1	Yes	Boulder Dr
17.0	IA 175	383+12.00	Left	RTAW	1	Yes	Boulder Dr
Total:					17		

<div>REMOVAL OF PAVEMENT</div> <div>Refer to Tabulation 102-5.</div>							110_01 4/5/24
* Not a bid item.							
Line No.	Station From	Station To	Side	Pavement Type	Area (SY)	Saw Cut* (LF)	Remarks
1.0	56+88.70	57+38.70	Both	PCC/HMA	166.7	60.0	West Approach Paving
2.0	57+27.99	57+77.99	Both	PCC/HMA	166.7	60.0	East Approach Paving
3.0	114+70.00	117+00.00	Aux.	PCC/HMA	102.2	230.0	EB Turn Lane Outside Radius to Mace Ave

110 07A
8/15/22

REMOVAL OF STEEL BEAM GUARDRAIL						
(1) Lane(s) to which the installation is adjacent.						
(2) Includes length of End Terminals and End Anchors.						
Line No.	No.	Direction of Traffic (1)	Station From	Station To	Side	Removal of Guardrail (2) (LF)
1.0	1	EB	55+86.49	57+31.49	Right	145.0
2.0	2	WB	56+21.49	57+31.49	Left	110.0
3.0	3	EB	59+16.49	60+26.49	Right	110.0
4.0	4	WB	59+16.49	60+61.49	Left	145.0

112_06
2/22/24

BRIDGE APPROACH SECTION																					
Refer to the BR Series.																					
* Not a bid item																					
Line No.	Bridge Station	End	Skew Ahead Left (Degrees)	Skew Ahead Right (Degrees)	(T) Thickness (IN)	Pay Length (FT)	Non-Reinf. Area (SY)	Single-Reinf. Area (SY)	Double-Reinf. Area (SY)	SRP Approach	SRP Abutment Type	SRP Abutting Pavement	Perforated * 4" Subdrain (LF)	Subdrain * Outlet (STA)	Subdrain * Outlet Side	Porous * Backfill (CY)	Class 'A' * Crushed Stone Backfill (CY)	Modified * Subbase (TON)	Polymer * Grid (SY)	Special * Backfill (TON)	Remarks
1.0	58+23.99	W			12.0	50.0	100.0	66.7		BR-203	Movable	BR-211	54.0	56+79.99	Right			115.000	182.5		
2.0	58+23.99	E			12.0	50.0	100.0	66.7		BR-203	Movable	BR-211	54.0	59+67.99	Right			115.000	182.5		

112.09
4/21/26

SHOULDERS

(1) Lane(s) to which the shoulder is adjacent.
(2) See Typ. 7156, 7157, or 7158.
(3) Bid Item.
(4) Applies only for Paved Shoulders constructed on project with existing granular shoulders.
(5) Bid Item. Typ. 7156, 7157, or 7158.
(6) Does not include shrink.
(7) Paved shoulder thickness specified in Remarks.
(8) Subbase type specified in Remarks.

Roadway Identification	Direction of Travel (1)	Station From	Station To	Side	P_SG Start Width (FT)	P_SG End Width (FT)	P SG Width (2) (FT)	G Width (FT)	L Length (FT)	Class 13 Excavation (CY)(3)(4)	HMA Cross Section Area (SF)	HMA Unit Weight (lbs-cf)	HMA (TON)	HMA (TON/ STA)	Binder (TONS)	Paved Shoulder (3) (SY)	Shoulder at Grd rail (5)(7)	Granular Shoulder (3) (TON)	Granular Shoulder (TON/STA)	Shoulder Const. Alt (3) (STA)	Remarks
IA 175	EB	114+70.00	117+00.00	Right	0.0	0.0			230.00	22.7	920.00	147	36.630	15.930	2.370	102.2				2.30	RADIUS AT MACE AVE.
					0.0	0.0															
IA 175	EB	55+17.96	55+37.96		11.7	11.7	11.7		20.00	4.3		147	9.320	15.930	0.560	26.0	26.0			0.20	GUARDRAIL SHOULDER
IA 175	EB	55+37.96	55+94.13		11.7	9.4	10.55		56.17	11.0		147	23.590	15.930	1.420	65.8	65.8			0.56	GUARDRAIL SHOULDER
IA 175	EB	55+94.13	56+60.38		9.4	3.0	6.2		66.25	7.6		147	16.350	15.930	0.980	45.6	45.6			0.66	GUARDRAIL SHOULDER
IA 175	EB	56+60.38	57+11.50		3.0	3.0	3		51.12	2.8		147	6.110	15.930	0.370	17.0	17.0			0.51	GUARDRAIL SHOULDER
					0.0	0.0															
IA 175	EB	59+18.50	59+69.63		3.0	3.0	3		51.13	2.8		147	6.110	15.930	0.370	17.0	17.0			0.51	GUARDRAIL SHOULDER
IA 175	EB	59+69.63	60+35.88		3.0	9.4	6.2		66.25	7.6		147	16.350	15.930	0.980	45.6	45.6			0.66	GUARDRAIL SHOULDER
IA 175	EB	60+35.88	60+92.04		9.4	11.7	10.55		56.16	11.0		147	23.590	15.930	1.420	65.8	65.8			0.56	GUARDRAIL SHOULDER
IA 175	EB	60+92.04	61+12.04		11.7	11.7	11.7		20.00	4.3		147	9.320	15.930	0.560	26.0	26.0			0.20	GUARDRAIL SHOULDER
					0.0	0.0															
IA 175	WB	55+17.96	55+37.96		11.7	11.7	11.7		20.00	4.3		147	9.320	15.930	0.560	26.0	26.0			0.20	GUARDRAIL SHOULDER
IA 175	WB	55+37.96	55+94.13		11.7	9.4	10.55		56.17	11.0		147	23.590	15.930	1.420	65.8	65.8			0.56	GUARDRAIL SHOULDER
IA 175	WB	55+94.13	56+60.38		9.4	3.0	6.2		66.25	7.6		147	16.350	15.930	0.980	45.6	45.6			0.66	GUARDRAIL SHOULDER
IA 175	WB	56+60.38	57+11.50		3.0	3.0	3		51.12	2.8		147	6.110	15.930	0.370	17.0	17.0			0.51	GUARDRAIL SHOULDER
					0.0	0.0															
IA 175	WB	59+18.50	59+69.63		3.0	3.0	3		51.13	2.8		147	6.110	15.930	0.370	17.0	17.0			0.51	GUARDRAIL SHOULDER
IA 175	WB	59+69.63	60+35.88		3.0	9.4	6.2		66.25	7.6		147	16.350	15.930	0.980	45.6	45.6			0.66	GUARDRAIL SHOULDER
IA 175	WB	60+35.88	60+92.04		9.4	11.7	10.55		56.16	11.0		147	23.590	15.930	1.420	65.8	65.8			0.56	GUARDRAIL SHOULDER
IA 175	WB	60+92.04	61+12.04		11.7	11.7	11.7		20.00	4.3		147	9.320	15.930	0.560	26.0	26.0			0.20	GUARDRAIL SHOULDER
Total:										125.5			258.11		15.69	719.8				10.02	

108_33
8/15/22

TEMPORARY BARRIER RAIL

Possible Standard: BA-401 Possible Detail: 560-7

* Not a bid item. Anchorage requirements are based on TBR locations shown in the plans. TBR alignments that vary from what is shown in the plans may result in additional TBR sections requiring anchorage.

Line No.	No.	Station From	Station To	Length (FT)	Barrier Rail Type	Anchored*	Modular Glare Screen System	Remarks
1.0	57	54+72.00	61+84.00	712.0	Concrete BA-401	No	No	

FULL-DEPTH PATCHES											102_06C 4/21/26
Count	Station	Direction of Travel	Side	Length (FT)	Width (FT)	Total Patch Area (SY)	Patch Repair or Finish	PCC Patch Type	PCC Patch Quantity (SY)	'EF' Joints PR-101 (No.)	Remarks
1	438+50.00	EB	Right	6.0	12.0	8.0	Repair	PCC With Dowels (PR-103)	8.0		
2	448+92.00	EB	Both	6.0	12.0	16.0	Repair	PCC With Dowels (PR-103)	16.0		
1	512+43.00	EB	Right	6.0	12.0	8.0	Repair	PCC With Dowels (PR-103)	8.0		
81						680.1			680.1		
Patch Repair or Finish Repair:											
Total:	82					717.6			680.1		

TEMPORARY TRAFFIC SIGNALS				
Line No.	Item No.	Station	Signal Type	Remarks
1.0	2	58+28.00	One Lane Traffic	Bridge FHWA #46660 MP 70.33

Totals: 1 Set

EXISTING SIGNS TO BE REINSTALLED								
Line No.	Sign Description	Direction of Travel	Location Station	Number of Posts	Square Tube Steel Posts	Installation Type	Installation Dim 'X'	See Signing Notes
1.0	R1-1, W4-4P	EB	167+54.00	1	1	A		New PSST Post, Reuse R1-1, W4-4P Signs

190.61
2/10/23

262_06
9/28/22

UTILITIES (NOT A POINT 25 PROJECT)

This is NOT a POINT 25 project and is not subject to the provisions of IAC 761-115.25.

TRAFFIC CONTROL PLAN		108_23A 8/15/22
<p>1. Through traffic will be maintained on the project at all times.</p> <p>2. Traffic control on this project shall be found in accordance with the TC series of Standard Road Plans found in Tab. 105-4 on Sheet C.5 and/or appropriate Detail Sheets included in the plans. For additional complementary information, refer to part VI of the Manual on Uniform Traffic Control Devices and the current Standard Specifications.</p> <p>3. The contractor shall coordinate traffic control with other projects in the area.</p>		

STAGING NOTES

It is not the intent to confine the Contractor's activities to the areas of suggested stages alone. It is understood that some of the various steps may occur simultaneously. The contractor may conduct several operations concurrently, provided that traffic is maintained and that these operations do not conflict with the staging indicated herein.

STAGE 1
Install temporary barrier rail (TBR) and temporary traffic signals and shift traffic to one-lane operation on north half of bridge.

Restricted width signing shall be in place according to Standard Road Plan TC-81.
Remove guardrail at the SE and SW bridge approaches.
Construct approaches and install new guardrail at the SE and SW bridge approaches.
Construct permanent shoulder for EB IA-175 at locations shown on Tab 112-09 on C.18 Sheet.

STAGE 2
Move TBR and shift traffic to one-lane operation on south half of bridge.
Restricted width signing shall be in place according to Standard Road Plan TC-81.
Remove guardrail at the NW and NE bridge approaches.
Construct approaches and install new guardrail at the NW and NE bridge approaches.
Construct permanent shoulder for WB IA-175 at locations shown on Tab 112-09 on C.18 Sheet.

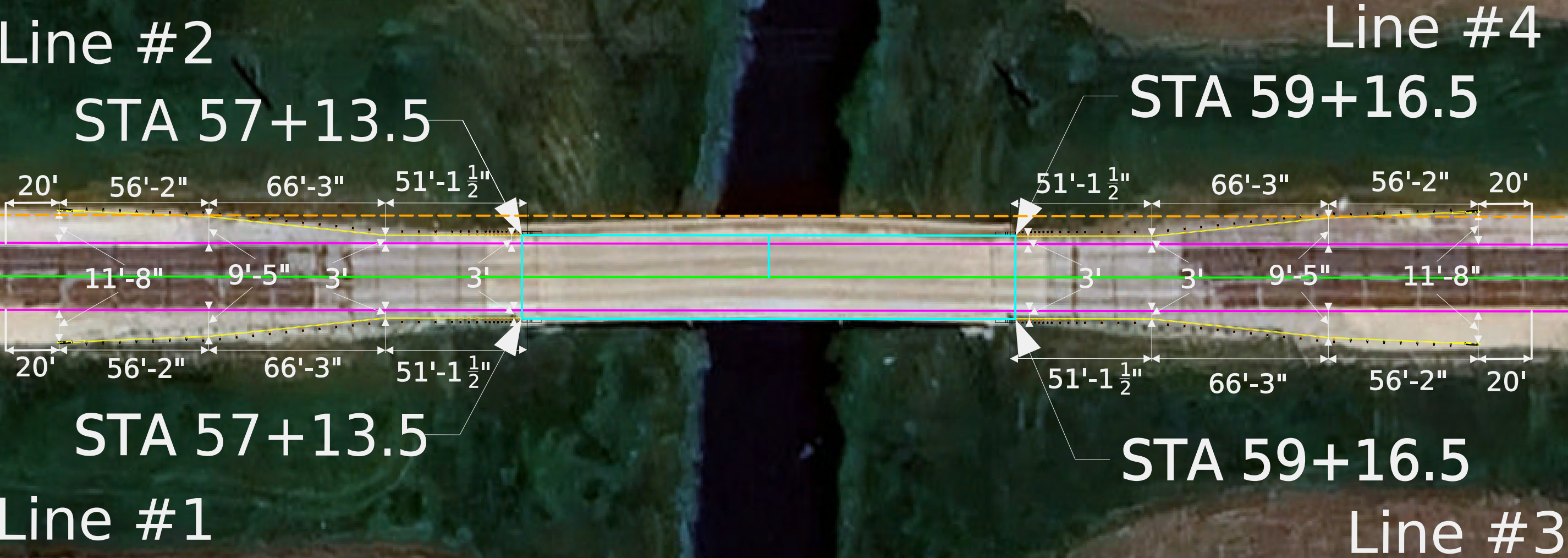
STAGE 3
Remove TBR and temporary signals.
Install permanent pavement markings as shown on Tab 108-22 in C Sheets.
Open IA-175 to two-lane traffic.

108_25
3/28/24

511 TRAVEL RESTRICTIONS													
Line No.	Route	Direction	County	Location Description	Feature Crossed	Object Type	Maint. Bridge No. or Structure ID or FHWA No.	Type of Restriction	Existing Measurement	Construction Measurement	Construction Measurement as Signed	Projected As Built Measurement	Remarks
1.0	IA 175	WB	Sac	0.7 miles east of the west jct. of IA 175	Boyer River	Barrier	FHWA No. 46660	Horizontal	N/A	11'-6"	10'-6"	N/A	
2.0	IA 175	WB	Sac	0.7 miles east of the west jct. of IA 175	Boyer River	Temporary Signal	FHWA No. 46660	Vertical	N/A	15'-0"	15'-0"	N/A	
3.0	IA 175	EB	Sac	0.7 miles east of the west jct. of IA 175	Boyer River	Barrier	FHWA No. 46660	Horizontal	N/A	11'-6"	10'-6"	N/A	
4.0	IA 175	EB	Sac	0.7 miles east of the west jct. of IA 175	Boyer River	Temporary Signal	FHWA No. 46660	Horizontal	N/A	15'-0"	15'-0"	N/A	

<div>111_01 10/14/22</div> <div>COORDINATED OPERATIONS</div> <div>Other work in progress during the same period of time will include the construction of the projects listed. Coordinate operations with those of other contractors working within the same area.</div>	
Project	Type of Work
NHSX-071-6(056)--3H-81	HMA resurfacing with milling
FM-C081(85)--55-81	HMA resurfacing with milling

FOR INFORMATION ONLY
N.T.S.



Legend

Edge of Shoulder -----

Centerline -----

Bridge Limits -----

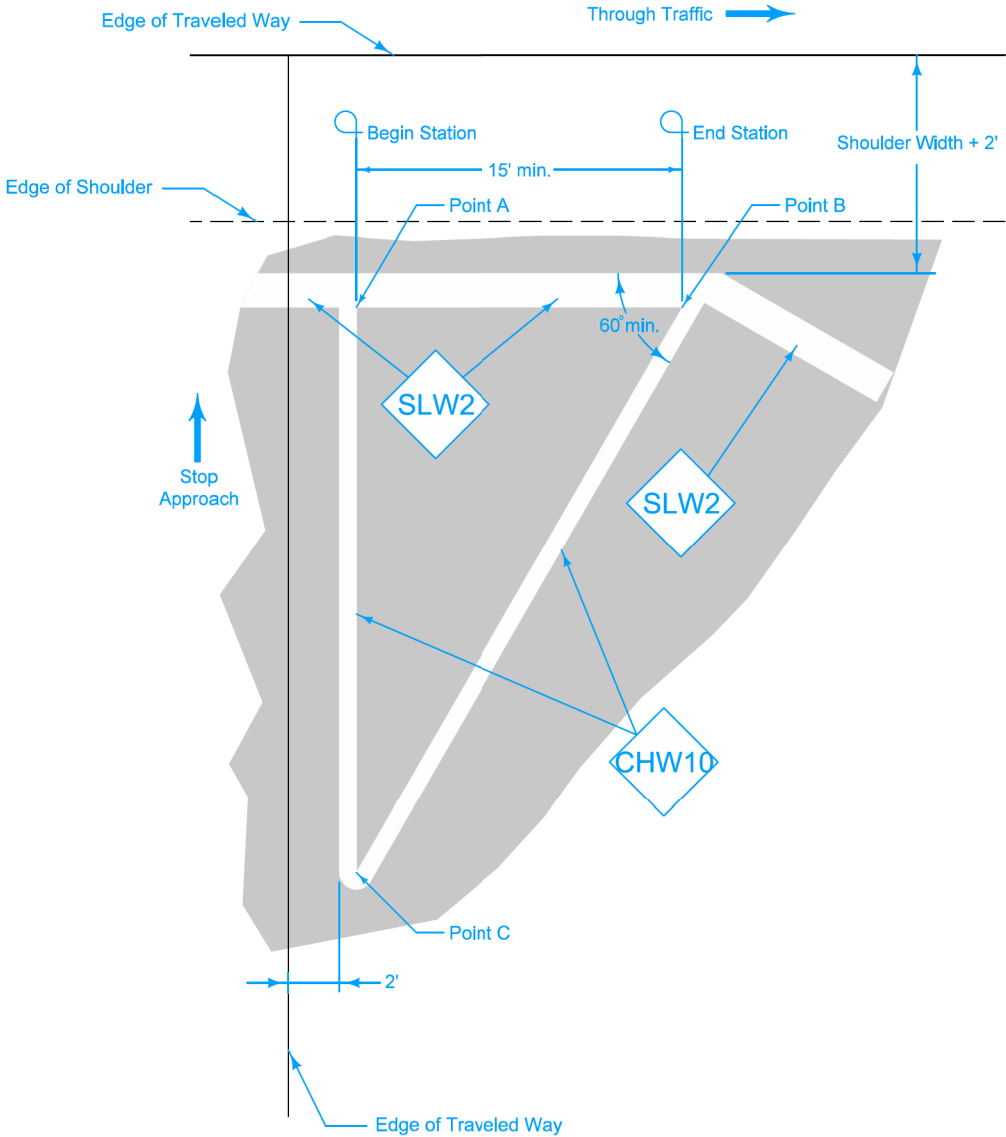
Edge of Traveled Way -----

Station Location is based on end of concrete barrier rail.

X and Y are for grading purposes, not for guardrail placement


Grading at Guardrail												
Line No.	Direction Of Travel	Station	Side	X1 FT	Y1 FT	X2 FT	Y2 FT	X3 FT	Y3 FT	X4 FT	Y4 FT	Z FT
1	EB	57+13.5	Right	53.125	8.0	117.375	14.4	117.375	14.4	173.542	16.7	82.1
2	WB	57+13.5	Left	53.125	8.0	117.375	14.4	117.375	14.4	173.542	16.7	82.1
3	EB	59+16.5	Right	53.125	8.0	117.375	14.4	117.375	14.4	173.542	16.7	82.1
4	WB	59+16.5	Left	53.125	8.0	117.375	14.4	117.375	14.4	173.542	16.7	82.1

For pavement marking line types, see PM-110.
For stop line information, see PM-120.



Possible Contract Item:
Pavement Marking Line Items

Possible Tabulations:
101-10
108-22

 IOWA DOT		REVISION	
		2	10-21-25
		560-5	
ROAD DESIGN DETAIL		SHEET 1 of 1	
REVISIONS: Changed CHW8 to CHW10			
PAINTED ISLANDS			