

HMA JOINT & CRACK SEALING
MP-136-6(706)65--76-53

JONES COUNTY

LETTING DATE
11-17-26

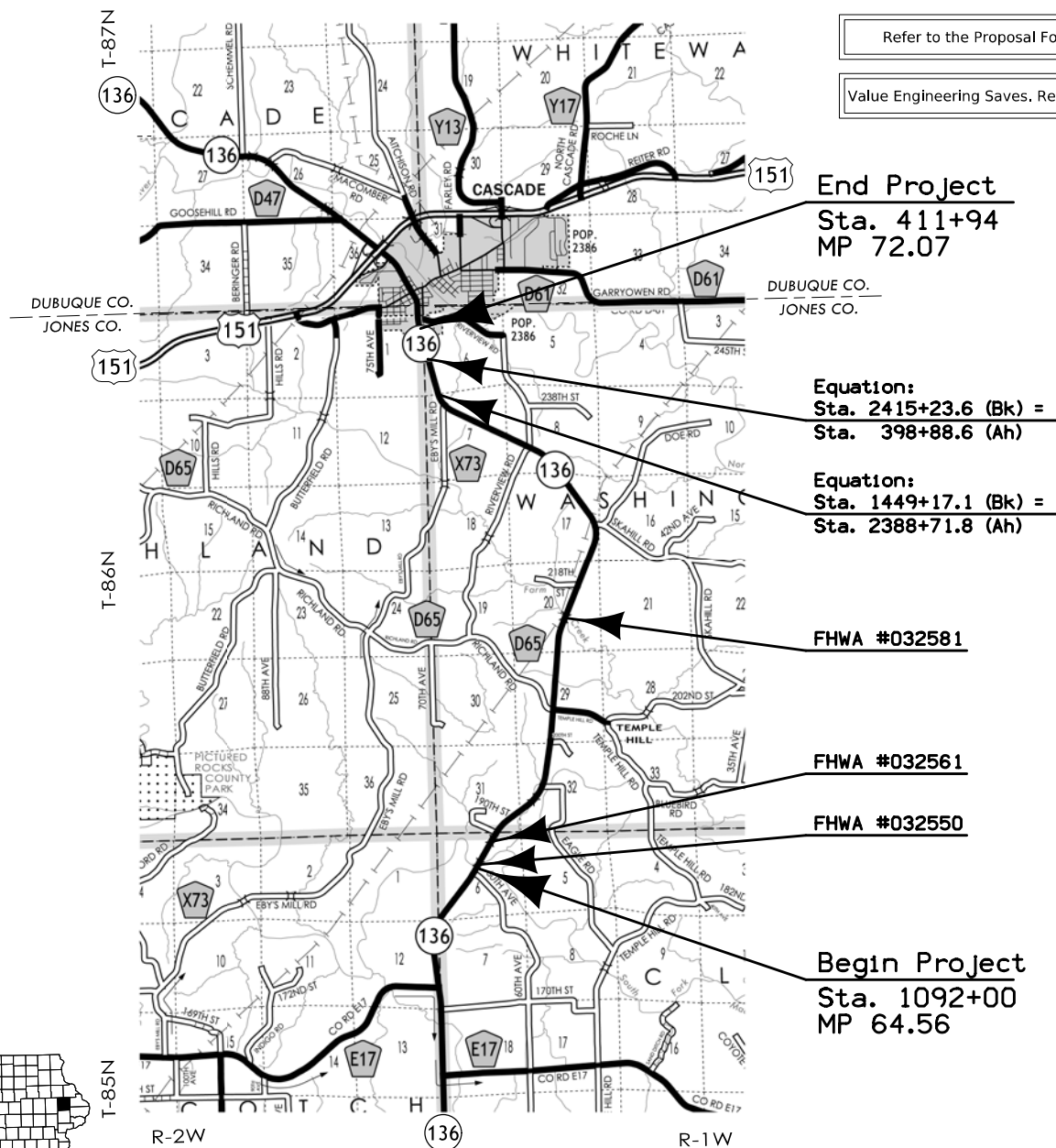


PLANS OF PROPOSED IMPROVEMENT ON THE
PRIMARY ROAD SYSTEM
JONES COUNTY
HMA JOINT & CRACK SEALING
From Maquoketa River to Cascade

SCALES: As Noted

Refer to the Proposal Form for list of applicable specifications.

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



End Project
Sta. 411+94
MP 72.07

Equation:
Sta. 2415+23.6 (Bk) =
Sta. 398+88.6 (Ah)

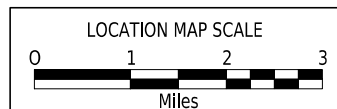
Equation:
Sta. 1449+17.1 (Bk) =
Sta. 2388+71.8 (Ah)

FHWA #032581

FHWA #032561

FHWA #032550

Begin Project
Sta. 1092+00
MP 64.56



REVISIONS

TOTAL

9

PROJECT IDENTIFICATION NUMBER

27-53-136-010

PROJECT NUMBER

MP-136-6(706)65--76-53

R.O.W. PROJECT NUMBER

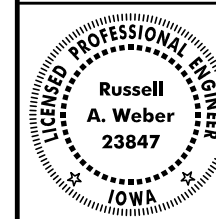
INDEX OF SHEETS

No.	DESCRIPTION
A Sheet	Title Sheet
A.1	Title Sheet
C Sheets	Quantities and General Information
C.1 - 3	Quantities and General Information
J Sheets	Traffic Control
J.1 - 3	Traffic Control Plan
U Sheets	Detail Sheets
U.1 - 2	Detail Sheets

DESIGN DATA RURAL

2024	AADT	990	V.P.D.
20 --	AADT	--	V.P.D.
20 --	DHV	--	V.P.H.
TRUCKS		18	%
Total			
Design ESALS		--	

ROADWAY DESIGN



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.

Signature: *Russell A. Weber* Date: 8-27-2026

Printed or Typed Name: Russell A. Weber

My license renewal date is December 31, 2026

Pages or sheets covered by this seal: ALL

FILE NO.

ENGLISH

DESIGN TEAM Weber/Holub

JONES COUNTY

PROJECT NUMBER MP-136-6(706)65--76-53

SHEET NUMBER A.1

ESTIMATED PROJECT QUANTITIES AND REFERENCE NOTES

Roadway Items : MP-136-6(706)65--76-53

Item no.	Item Code	Item	Unit	Quantities	Estimate Reference Notes
				Estimated	
				Roadway Items	
1	2528-8445110	TRAFFIC CONTROL	LS	1	Refer to Tab. 108-23A.
2	2528-8445113	FLAGGERS	EACH	0	See Proposal.
3	2528-8445115	PILOT CARS	EACH	0	
4	2528-8445116	FLAGGER WITH AFAD	EACH	0	See Proposal.
5	2533-4980005	MOBILIZATION	LS	1	
6	2541-1004011	CRACK AND JOINT CLEANING AND SEALING (HMA SURFACES)	MILE	7.5	Refer to the location map for project limits. Refer to the U sheets for typical cross sections. The quantity includes 7.5 miles of 2 lane pavement. Paved shoulders shall be included, but the length of paved shoulder, regardless of width, will not be measured separately.
7	2541-1005001	SEALER MATERIAL (HMA SURFACES)	LB	18,000	

105_04 10/20/26 STANDARDS The following Standards apply to construction work on this project.		
Number	Date	Title
SI-881	10-20-26	Special Signs for Workzones
TC-1	10-15-19	Work Not Affecting Traffic (Two-Lane or Multi-Lane)
TC-202	04-18-23	Work Within 15 ft of Traveled Way
TC-213	04-18-23	Lane Closure with Flaggers
TC-214	04-18-23	Lane Closure with Flaggers for use with Pilot Car

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.

108_23A
8/15/22

TRAFFIC CONTROL PLAN

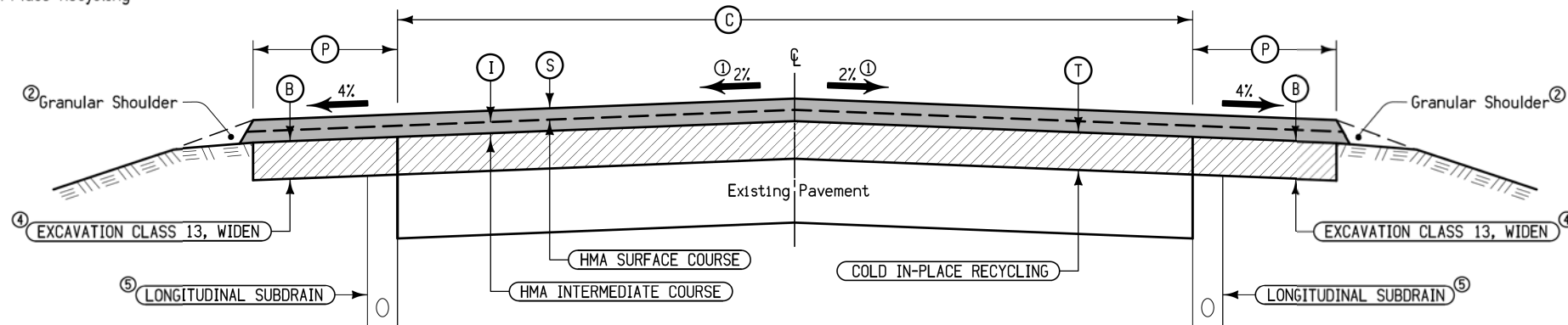
1. Through traffic will be maintained on the project at all times.

111_01 10/14/22 COORDINATED OPERATIONS 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.	
Project	Type of Work
BRF-136-2(43)--38-53	Bridge Replacement - CCS
NHSN-151-3(184)--2R-57	PCC Patching

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
Iowa 136	Both	Jones	2.5 miles north of the junction with County Road E17	Maquoketa River	Traffic Control Device	5364.6S136	Horizontal	32'	13'	N/A		FHWA #32550
Iowa 136	Both	Jones	8.1 miles south of the junction with US 151	Overflow South Fork Maquoketa River	Traffic Control Device	5364.9S136	Horizontal	40'	13'	N/A		FHWA #32561
Iowa 136	Both	Jones	5.4 miles south of the junction with US 151	Farm Creek	Traffic Control Device	5367.8S136	Horizontal	40'	13'	N/A		FHWA #32581

2602-A
MODIFIED

- = HMA Resurfacing
▨ = Cold In-Place Recycling



Notes:

- Section may be modified as directed by the Engineer through areas of special shaping. Refer to Standard Road Plans for additional requirements through superelevated curves.
- Refer to Typ. 7135 and Typ. 7145.
- Tack Coat estimated for 2 applications.
- Cut widening trench to dimensions shown. Fill trench with cold-in-place recycled material. Substitute HMA base mix or intermediate mix for CIPR material at extended paved fillets and locations identified in Tab. 106-5.
- Refer to Tab. 104-9.
- Area based on existing pavement width.

Dimension C is in STP-136-2(40)--2C-53.
Dimension P is in HSIPX-136-2(41)--3L-53.

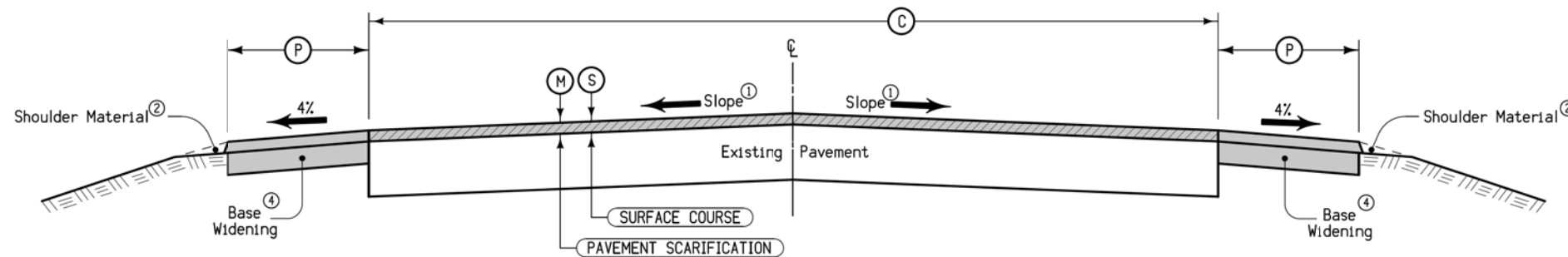
TYPICAL CROSS SECTION HMA RESURFACING WITH COLD-IN-PLACE RECYCLING

DESIGN RATES	
ITEM	RATE
Surface Course	155 lbs./cu. ft.
Intermediate Course	150 lbs./cu. ft.
Tack Coat	0.05 gal./sq. yds.

Location			S	I	T	B	C	P	Resurfacing Quantities Per Station						Remarks
Road Id	Station to Station		Inches	Inches	Inches	Inches	Feet	Feet	Tack ^③ Gallons	Asphalt Binder Tons	Hot Mix Asphalt (Tons) Surface	Intermediate	Cold In-Place Recycling ^⑥ SY	Excavation Cl. 13 Widen CY	
Iowa 136	1112+75	1259+58	1.5	1.5	5.0	5.0	22.0	4.0	24.4	3.43	29.1	28.1	244	12.3	
Iowa 136	1260+82	1449+17.1 (Bk)	1.5	1.5	5.0	5.0	22.0	4.0	24.4	3.43	29.1	28.1	244	12.3	Bridge to Equation
Iowa 136	2388+71.8 (Ah)	2415+23.6 (Bk)	1.5	1.5	5.0	5.0	22.0	4.0	24.4	3.43	29.1	28.1	244	12.3	Equation to Equation
Iowa 136	398+88.6 (Ah)	411+94	1.5	1.5	5.0	5.0	22.0	4.0	24.4	3.43	29.1	28.1	244	12.3	Equation to EOP

2617-A
MODIFIED

- = HMA Resurfacing and Paved Shoulder
▨ = Pavement Scarification



Notes:

- Finished slope shall match existing pavement.
- Refer to Typ. 7135 or Typ. 7145.
- Tack Coat estimated for 1 application. Not a bid item.
- Base widening quantities are not included with resurfacing quantities. Refer to Typ. 7151.
- Paved shoulder width may vary. Refer to Tab. 106-5.

Dimension C is in STP-136-2(40)--2C-53.
Dimension P is in HSIPX-136-2(41)--3L-53.

FOR REFERENCE ONLY
NOT FOR CONSTRUCTION

TYPICAL CROSS SECTION HMA RESURFACING WITH MILLING

Design Rates	
Item	Rate
Surface Course	155 lbs./cu. ft.
Tack Coat	0.05 gal./sq. yd.

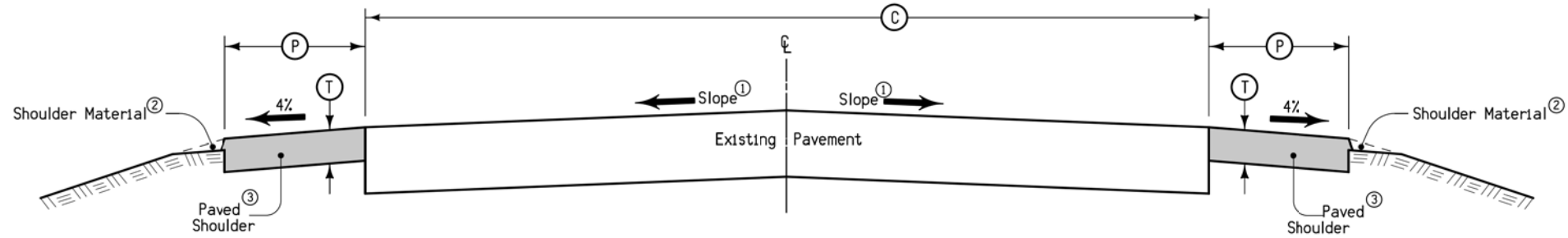
Location			S	M	C	P	Resurfacing Quantities ^④ Per Station					Remarks
Road Id	Station To Station		Inches	Inches	Feet	Feet	Tack ^③ Gallons	Asphalt Binder Tons	Hot Mix Asphalt (Tons) Surface	Intermediate	Pavement Scarification Tons	
Iowa 136	1092+00	1094+00	2.0	2.0	24.0	4.0	17.8	2.48	41.3	---	29.0	
Iowa 136	1098+55	1102+62	2.0	2.0	22.0	4.0	16.7	2.33	38.8	---	26.6	Bridge to Typ. 2617-B
Iowa 136	1107+90	1111+50	2.0	2.0	22.0	4.0	16.7	2.33	38.8	---	26.6	Typ. 2617-B to Bridge

FILE NO.	ENGLISH	DESIGN TEAM	Walton/Storey/Holub	JONES COUNTY	PROJECT NUMBER	STP-136-2(40)--2C-53/HSIPX-136-2(41)--3L-53	SHEET NUMBER	B.1
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FILE NO.	ENGLISH	DESIGN TEAM	Weber/Holub	JONES COUNTY	PROJECT NUMBER	MP-136-6(706)65--76-53	SHEET NUMBER	U.1
9:25:57 AM	7/24/2026	rhoulub	pw:\NTPwint1.dot.int.lan:PWMain\Documents\Projects\5313601027\DistrictDesign\53136706u01.dgn					

■ = HMA Paved Shoulder

2617-B
MODIFIED



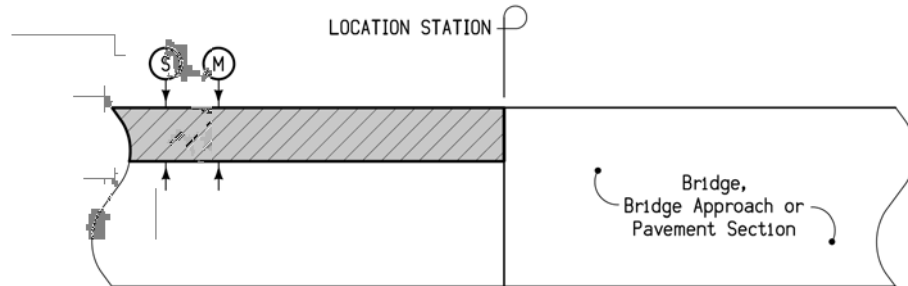
Notes:

- ① Use as constructed.
② Refer to Typ. 7135 or Typ. 7145.
③ Paved shoulder quantities are not included with resurfacing quantities. Refer to Typ. 7152 and Tab. 112-9.

Dimension C is in STP-136-2(40)--2C-53.
Dimension P is in HSIPX-136-2(41)--3L-53.

TYPICAL CROSS SECTION HMA PAVED SHOULDERS

Location			Ⓢ	Ⓜ	Ⓒ	Ⓟ	Ⓣ	Quantities ③ Per Station				Remarks
								Tack Coat	Asphalt Binder	Hot Mix Asphalt (Tons)		
Road Id	Station To Station		Inches	Inches	Feet	Feet	Inches	Gallons	Tons	Surface	Intermediate	
Iowa 136	1102+62	1107+90	---	---	24.0	4.0	6.0	---	---	---	---	Typ. 2617-A to Typ. 2617-A



7305
10-15-13

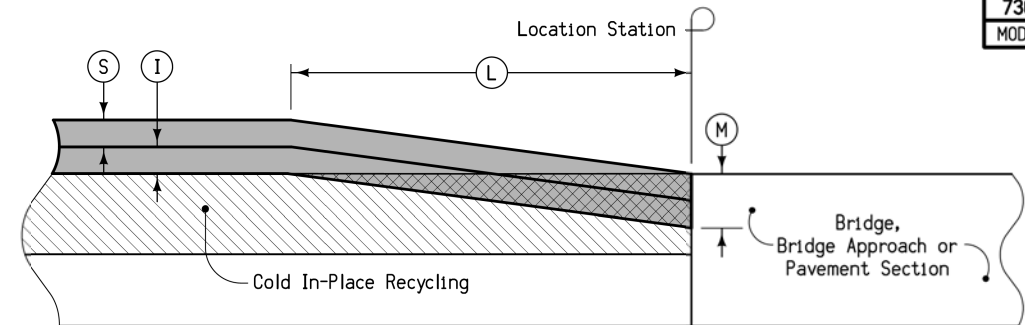
LOCATION STATION	S Inches	M Inches	Remarks
1092+00	2.0	2.0	BOP
1094+00	2.0	2.0	Bridge
1098+55	2.0	2.0	Bridge
1102+62	2.0	2.0	At Typ. 2617-B
1107+90	2.0	2.0	At Typ. 2617-B
1111+50	2.0	2.0	Bridge Approach

- ⑤ Surface Course
⑥ Milling (Avg. Depth)

NOTCH FOR SINGLE COURSE RESURFACING OF MILLED AREAS

Posted Speed Limit (mph)	Runout Ratio (ft per inch)
45 or More	50
20 to 45	25
Under 20	10 *

* Based on turning maneuvers at side roads and intersections.



7308-A
MODIFIED

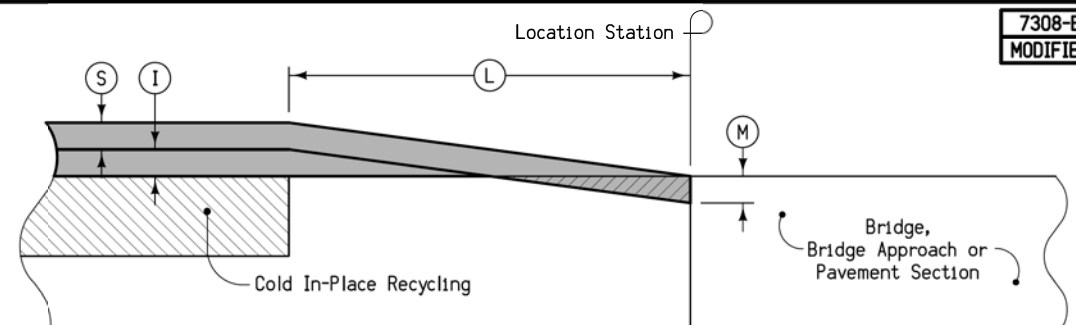
- ⑤ Surface Course
⑥ Intermediate Course
⑦ Milling

SURFACE NOTCH FOR DOUBLE COURSE RESURFACING

Location Station	L Feet	S Inches	I Inches	M Inches	Remarks
411+94	150	1.5	1.5	3.0	EOP

Posted Speed Limit (mph)	Runout Ratio (ft per inch)
45 or More	50
20 to 45	25
Under 20	10 *

* Based on turning maneuvers at side roads and intersections.



7308-B
MODIFIED

- ⑤ Surface Course
⑥ Intermediate Course
⑦ Milling

FOR REFERENCE ONLY
NOT FOR CONSTRUCTION

SURFACE NOTCH INTERMEDIATE RUNOUT FOR DOUBLE COURSE RESURFACING

Location	L Feet	S Inches	I Inches	M Inches	Remarks
1112+75	150	1.5	1.5	1.5	Bridge Approach
1259+58	150	1.5	1.5	1.5	Bridge
1260+82	150	1.5	1.5	1.5	Bridge
1204+15, Rt.	30	1.5	1.5	1.5	Temple Hill Road

FILE NO. ENGLISH DESIGN TEAM Walton/Storey/Holub
7:49:02 AM 11/24/2021 rholub pw:\\NTPwint1.dot.int.lan:P\\Main\\Documents\\Projects\\5313601021\\DistrictDesign\\53136040b01.dgn

JONES COUNTY PROJECT NUMBER STP-136-2(40)--2C-53/HSIPX-136-2(41)--3L-53

SHEET NUMBER B.2

FILE NO. ENGLISH DESIGN TEAM Weber/Holub
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JONES COUNTY PROJECT NUMBER MP-136-6(706)65--76-53

SHEET NUMBER U.2