LETTING DATE 12-17-2019

MICROSURFACING

DAVIS/VAN BUREN Co. STPN-002-8(37)--2J-26

IOWADOT

Highway Division

PLANS OF PROPOSED IMPROVEMENT ON THE

PRIMARY ROAD SYSTEM

DAVIS/VAN BUREN COUNTY

MICROSURFACING

E Jct US 63 to IA 1

SCALES: As Noted

Refer to the Proposal Form for list of applicable specifications.

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

IOWA ONE CALL
1-800-292-8989
www.iowaonecall.com
811 Know what's below. Call before you dig.

For Project Location Map
Refer to Sheet A.2

REVISIONS

	TOTAL 21
PROJECT IDENTIFICATION NUMBER	
19-26-002-010	
PROJECT NUMBER	
STPN-002-8(37)--2J-26	
R.O.W. PROJECT NUMBER	

INDEX OF SHEETS

No.	DESCRIPTION
A Sheets	**Title Sheets**
A.1	Title Sheet
A.2	Location Map Sheet
B Sheets	**Typical Cross Sections and Details**
B.1 - 2	Typical Cross Sections and Details
B.3 - 4	Existing Typicals - FOR INFORMATION ONLY
C Sheets	**Quantities and General Information**
C.1	Project Description
C.1	Estimated Project Quantities
C.2	Estimate Reference Information
C.1	Standard Road Plans
C.3	Index of Tabulations
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C.1 - 14	Tabulations
J Sheets	**Traffic Control and Staging Sheets**
J.1	Traffic Control Plan
J.1	Staging Notes Stage
J.1	511 Travel Restrictions
J.1	Coordinated Operations
	* Color Plan Sheets

MP 196.44 - 199.03
DESIGN DATA RURAL

2010 AADT	2,444	V.P.D.
2030 AADT	3,443	V.P.D.
20-- DHV	--	V.P.H.
TRUCKS	16	%
Total Design ESALs	--	

MP 199.03 - 205.07
DESIGN DATA RURAL

2010 AADT	1,904	V.P.D.
2030 AADT	2,687	V.P.D.
20-- DHV	--	V.P.H.
TRUCKS	20	%
Total Design ESALs	--	

MP 205.07 - 211.70
DESIGN DATA RURAL

2010 AADT	1,851	V.P.D.
2030 AADT	2,613	V.P.D.
20-- DHV	--	V.P.H.
TRUCKS	21	%
Total Design ESALs	--	

MP 211.70 - 217.20
DESIGN DATA RURAL

2010 AADT	1,483	V.P.D.
2030 AADT	2,099	V.P.D.
20-- DHV	--	V.P.H.
TRUCKS	26	%
Total Design ESALs	--	

MP 217.20 - 225.20
DESIGN DATA RURAL

2010 AADT	1,343	V.P.D.
2029 AADT	1,902	V.P.D.
20-- DHV	--	V.P.H.
TRUCKS	--	%
Total Design ESALs	28	

INDEX OF SEALS

SHEET NO.	NAME	TYPE
A.1	James R. Phillips	Primary Signature Block

LICENSED PROFESSIONAL ENGINEER James R. Phillips 12177 IOWA

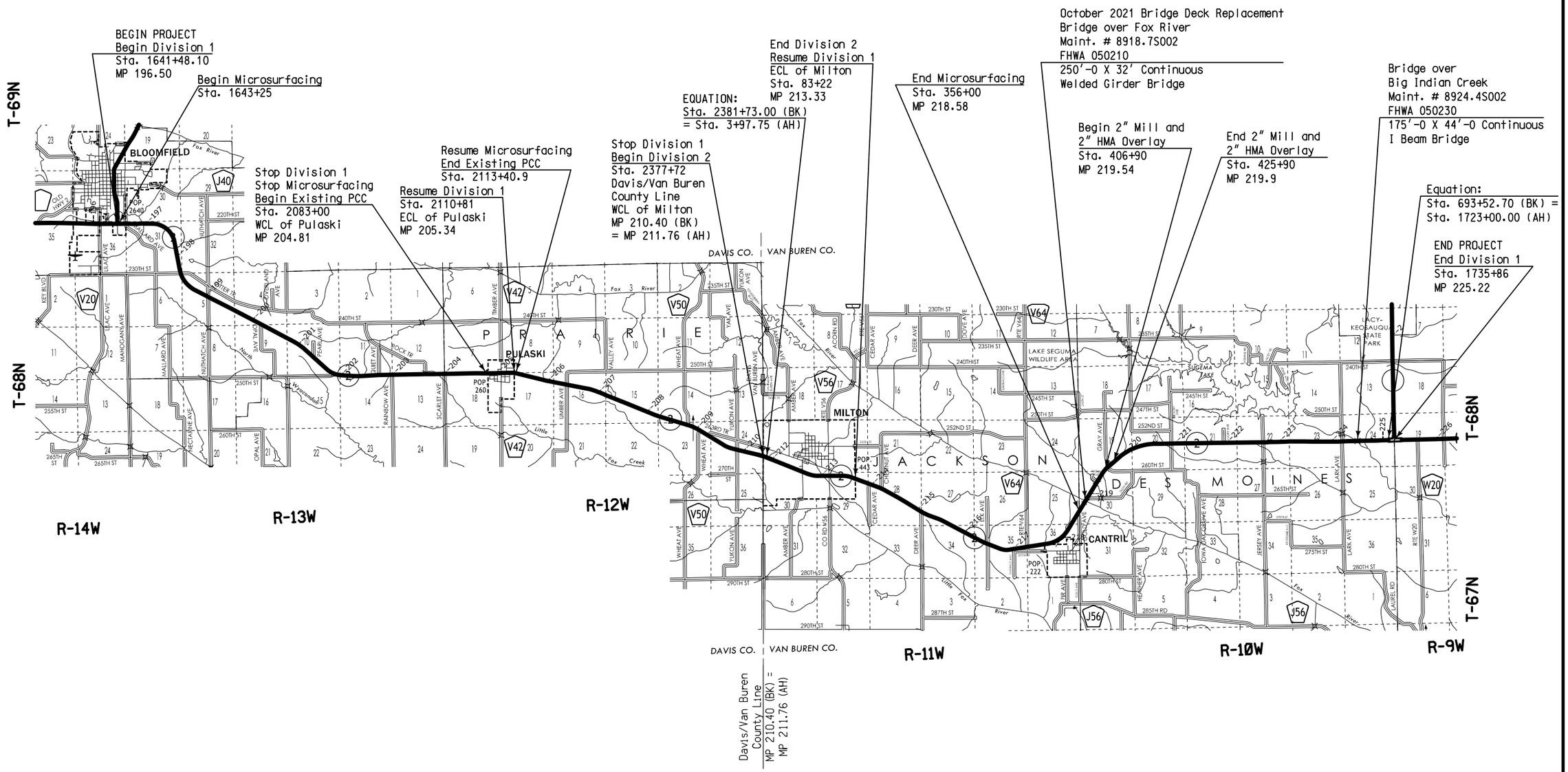
I hereby certify that this engineering document was prepared by me or under my direct personal supervision and that I am a duly licensed Professional Engineer under the laws of the State of Iowa.

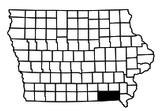
James R. Phillips 9-24-2019
Signature Date

James R. Phillips
Printed or Typed Name

My license renewal date is December 31, 20 20

Pages or sheets covered by this seal: ALL SHEETS



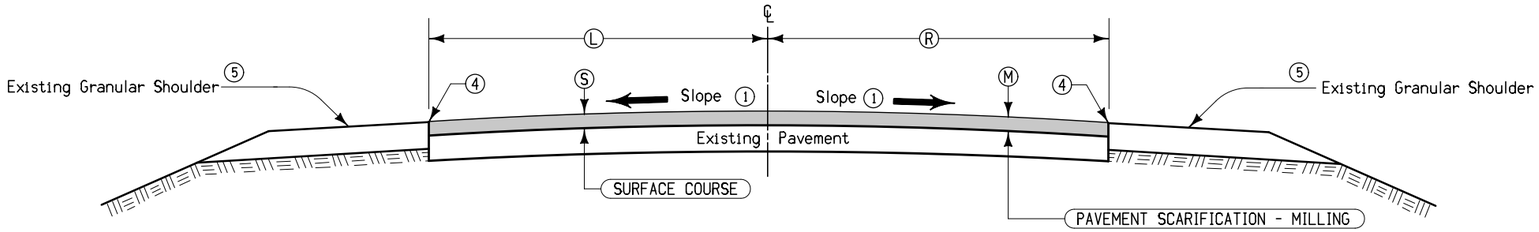


LOCATION MAP SCALE
0 0.1 0.2 0.3
Miles

FILE NO.	ENGLISH	DESIGN TEAM Van Dyke \ Phillips \ Fiedler	DAVIS/VAN BUREN COUNTY	PROJECT NUMBER STPN-002-8(37)--2J-26	SHEET NUMBER A.2

2:25:40 PM 9/24/2019 rfiedle pw:\\projectwise.dot.int.lan:PWMain\Documents\Projects\2600201019\DistrictDesign\26-0028-037_A01.dgn

2618
MODIFIED



DESIGN RATES	
ITEM	RATE
Surface Course	147 lbs./cu. ft.
Intermediate Course	145 lbs./cu. ft.
Base	145 lbs./cu. ft.
Scarification	135 lbs./cu. ft.
Tack Coat	0.05 gal./sq. yd.
Binder (PG 58-28H)	6%

TABLE OF DESIGN QUANTITIES — Actual

LOCATION			LENGTH	L	R	S	I	M	TACK COAT	ASPHALT BINDER	HMA RESURFACING (Tons)		SCARIFICATION 3
ROAD IDENTIFICATION	STATION TO STATION		Feet	Feet	Feet	Inches	Inches	Inches	Gallons 2	Tons	SURFACE	INTERMEDIATE	Square Yards
Division 1 Rural													
Per Station Quantities													
IA 2	--	--	100.00	12.0	12.0	2.0		2.0	13.33	1.764	29.400		266.67
Actual Quantities													
IA 2	406+90.00	425+90.00	1,900.00	12.0	12.0	2.0		2.0	253.33	33.516	558.600		5,066.67

Notes:

Section shown in the direction of travel

1. Match finished slope to existing pavement, except that the maximum allowable slope is 3.0 %, minimum allowable slope is 2.0 %. Section may be modified as directed by the Engineer through areas of special shaping.

   Refer to tabulation listing of superelevated curves and Standard Road Plans for additional requirements through superelevated curves.

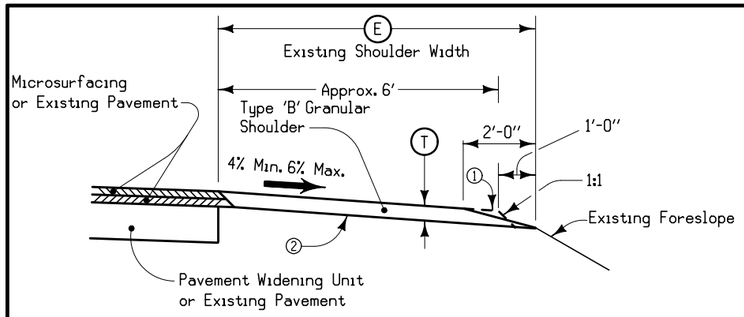
2. Estimated for 1 application.

3. Milling will be approximately a nominal 2" at centerline.

4. Edge of Traveled Way and white painted edge line to be located at 12 ft Rt and Lt of Centerline.

5. Shoulder material as specified elsewhere in these plans; refer to typical 7135 for "Type 'B' Granular Surfaced Shoulders".

TYPICAL CROSS SECTION HMA RESURFACING & PAVEMENT SCARIFICATION



DESIGN RATES	
ITEM	RATE
Type 'B' Granular	140 lbs./cu. ft.

7135
MODIFIED

(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.

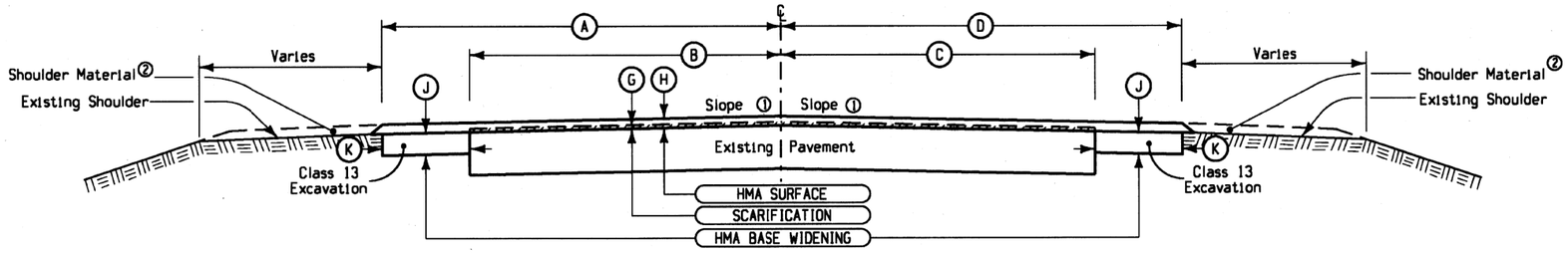
(2) Existing shoulder surface to be shaped to a uniform cross slope prior to placing granular shoulder material. Shape to ensure the thickness of the granular shoulder material is not less than the thickness of the microsurfacing or existing pavement.

ROAD IDENTIFICATION	LOCATION STATION	TO STATION	SIDE	LENGTH STA.	T Inches	E Feet	TONS/ SIDE/ STA.	TONS
Begin Division 1 Rural								
IA 2	1643+25.00	2083+00.00	BOTH	439.75	1.5	7.0	6.125	5,386.938
Gap for City of Pulaski								
IA 2	2113+40.90	2377+72.00	BOTH	264.31	1.5	7.0	6.125	3,237.810
Stop Division 1 Rural								
Begin Division 2 Urban								
IA 2	2377+72.00	2381+73.00	BOTH	4.01	1.5	7.0	6.125	49.123
Equation:	2381+73.00	(BK)						
	3+97.75	(AH)						
IA 2	397+75.00	83+22.00	BOTH	314.53	2.5	7.0	10.208	6,421.654
End Division 2 Urban								
Resume Division 1 Rural								
IA 2	83+22.00	356+00.00	BOTH	272.78	2.5	7.0	10.208	5,569.258
IA 2	356+00.00	366+95.00	BOTH	10.95	2.5	10.0	14.583	319.375
Bridge Maint. # 8918.7S002, FHWA 50210								
IA 2	370+45.00	667+28.00	BOTH	296.83	2.5	10.0	14.583	8,657.542
Bridge Maint. # 8924.4S002, FHWA 50230								
IA 2	671+56.00	693+52.70	BOTH	21.97	2.5	10.0	14.583	640.704
Equation:	693+52.70	(BK)						
	1723+00.00	(AH)						
IA 2	1723+00.00	1735+86.00	BOTH	12.86	2.5	10.0	14.583	375.083
End Division 1 Rural								
Totals Division 1 Rural				1,319.45				24,186.710
Totals Division 2 Urban				318.54				6,470.777

TYPICAL SECTION FOR TYPE 'B' GRANULAR SHOULDER

ADJACENT TO MICROSURFACING
OR EXISTING PAVEMENT

2602-A
MODIFIED



Notes:

① Finished slope shall match existing pavement except that the maximum allowable slope is 3.0 %, minimum allowable slope is 2.0 %. Section may be modified as directed by the engineer through areas of special shaping.

② Shoulder material as specified elsewhere in these plans; refer to typical 7135 for "Type 'B' Granular Surfaced Shoulders".

③ Quantity estimated for 2 courses plus vertical faces of base widening units and paved shoulder units.

DESIGN RATES	
ITEM	RATE
Surface Course	145 lbs./cu. ft.
Intermediate Course	150 lbs./cu. ft.
Base	145 lbs./cu. ft.
Scarification	145 lbs./cu. ft.
Tack Coat	0.05 gal./sq. yd.

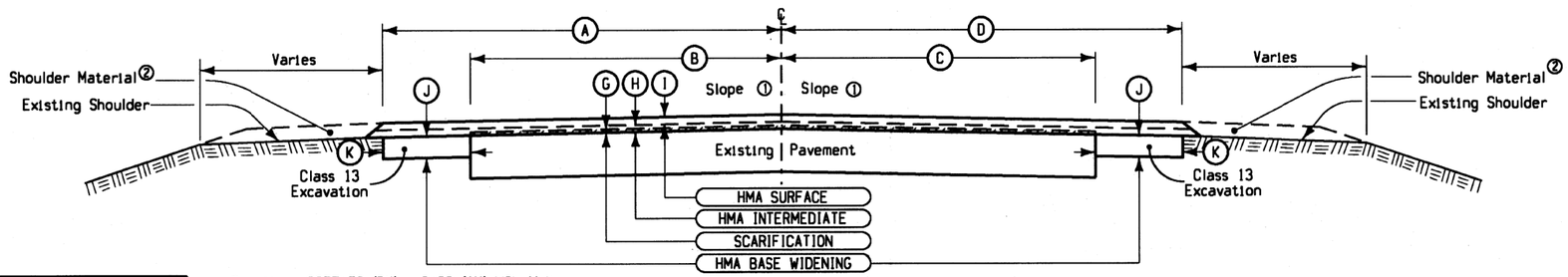
Equation: 2377+72 (BK) = 0+00 (AH) WCL Milton

TABLE OF DESIGN QUANTITIES — Per Station

LOCATION		A	B	C	D	G	H	J	K	CL. 13 EXCAVATION	TACK COAT	ASPHALT CEMENT	HMA RESURFACING (Tons)		
ROAD IDENTIFICATION	STATION TO STATION	Feet	Feet	Feet	Feet	Inches	Inches	Inches	Feet	Cu. Yds.	Gallons ③	Tons	SURFACE	BASE	SCARIFICATION
IA 2	1643+25 to 1831+75	14	12	12	14	0.5	2	3	2	3.70	15.56	2.48	34.03	7.25	7.25
IA 2	1884+55 to 2039+78	14	12	12	14	0.5	2	3	2	3.70	15.56	2.48	34.03	7.25	7.25
IA 2	2110+81 to 2377+72	14	12	12	14	0.5	2	3	2	3.70	15.56	2.48	34.03	7.25	7.25

TYPICAL CROSS SECTION HMA RESURFACING WITH MILLING (DIVISION 1 - RURAL)

2602-B
MODIFIED



Notes:

① Finished slope shall match existing pavement except that the maximum allowable slope is 3.0 %, minimum allowable slope is 2.0 %. Section may be modified as directed by the engineer through areas of special shaping.

② Shoulder material as specified elsewhere in these plans; refer to typical 7135 for "Type 'B' Granular Surfaced Shoulders".

③ Quantity estimated for 2 courses plus vertical faces of base widening units and paved shoulder units.

DESIGN RATES	
ITEM	RATE
Surface Course	145 lbs./cu. ft.
Intermediate Course	150 lbs./cu. ft.
Base	145 lbs./cu. ft.
Scarification	145 lbs./cu. ft.
Tack Coat	0.05 gal./sq. yd.

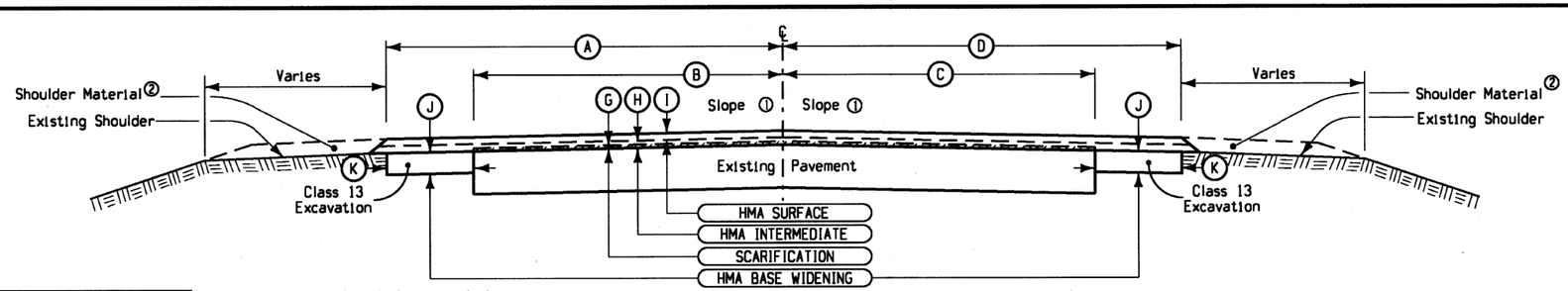
Equation: 2377+72 (BK) = 0+00 (AH) WCL Milton

TABLE OF DESIGN QUANTITIES — Per Station

LOCATION		A	B	C	D	G	H	I	J	K	CL. 13 EXCAVATION	TACK COAT	ASPHALT CEMENT	HMA RESURFACING (Tons)			
ROAD IDENTIFICATION	STATION TO STATION	Feet	Feet	Feet	Feet	Inches	Inches	Inches	Inches	Feet	Cu. Yds.	Gallons ③	Tons	SURFACE	INTERMEDIATE	BASE	SCARIFICATION
IA 2	1831+75 to 1884+55	14	12	12	14	0.5	1.5	1.5	3	2	3.70	31.11	3.43	25.49	26.48	7.25	7.25
IA 2	2039+78 to 2083+00	14	12	12	14	0.5	1.5	1.5	3	2	3.70	31.11	3.43	25.49	26.48	7.25	7.25
IA 2	83+22 to 356+00	14	12	12	14	0.5	1.5	1.5	3	2	3.70	31.11	3.43	25.49	26.48	7.25	7.25

TYPICAL CROSS SECTION HMA RESURFACING WITH MILLING (DIVISION 1 - RURAL)

2602-C
MODIFIED



Notes:

① Finished slope shall match existing pavement except that the maximum allowable slope is 3.0 %, minimum allowable slope is 2.0 %. Section may be modified as directed by the engineer through areas of special shaping.

② Shoulder material as specified elsewhere in these plans; refer to typical 7135 for "Type 'B' Granular Surfaced Shoulders".

③ Quantity estimated for 2 courses plus vertical faces of base widening units and paved shoulder units.

DESIGN RATES	
ITEM	RATE
Surface Course	145 lbs./cu. ft.
Intermediate Course	150 lbs./cu. ft.
Base	145 lbs./cu. ft.
Scarification	145 lbs./cu. ft.
Tack Coat	0.05 gal./sq. yd.

Equation: 2377+72 (BK) = 0+00 (AH) WCL Milton

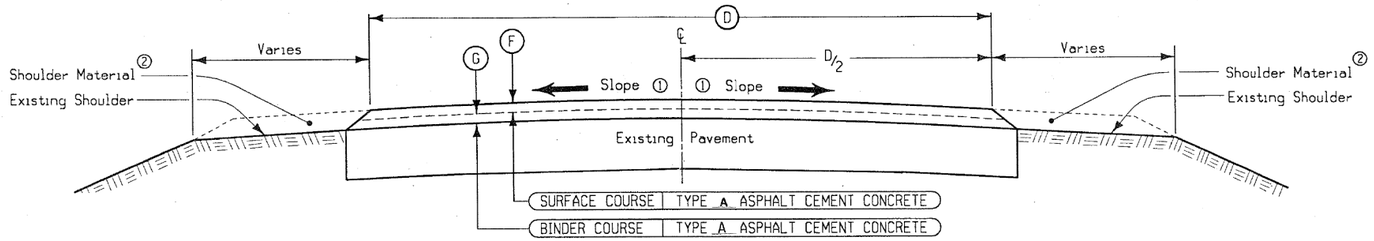
TABLE OF DESIGN QUANTITIES — Per Station

LOCATION		A	B	C	D	G	H	I	J	K	CL. 13 EXCAVATION	TACK COAT	ASPHALT CEMENT	HMA RESURFACING (Tons)			
ROAD IDENTIFICATION	STATION TO STATION	Feet	Feet	Feet	Feet	Inches	Inches	Inches	Inches	Feet	Cu. Yds.	Gallons ③	Tons	SURFACE	INTERMEDIATE	BASE	SCARIFICATION
IA 2	0+00 to 83+22	14	12	12	14	0.5	1.5	1.5	3	2	3.70	31.11	3.43	25.49	26.48	7.25	7.25

TYPICAL CROSS SECTION HMA RESURFACING WITH MILLING (DIVISION 2 - URBAN)

Existing Typicals
Project # STPN-002-8(34)--2J-26
FOR INFORMATION ONLY

2602
08-30-88



Notes:

① Finished slope shall match existing pavement except that the maximum allowable slope is 3.0 %, minimum allowable slope is 2.0 %. Section may be modified as directed by the engineer through areas of special shaping.

Refer to tabulation listing of superelevated curves and Standard Road Plans for additional requirements through superelevated curves.

② Shoulder material as specified elsewhere in these plans; refer to Typicals 7134 and 7135 for "Type 'B' Granular Surfaced Shoulders" and Typical 7136 for "Type "A" Granular Surfaced Shoulders".

③ Includes 5.04 tons/sta. for crown correction.

DESIGN RATES	
ITEM	RATE
Surface Course	140 lbs./cu.ft
Binder Course	140 lbs./cu.ft
Tack Coat	0.05 gal./sq.yd.

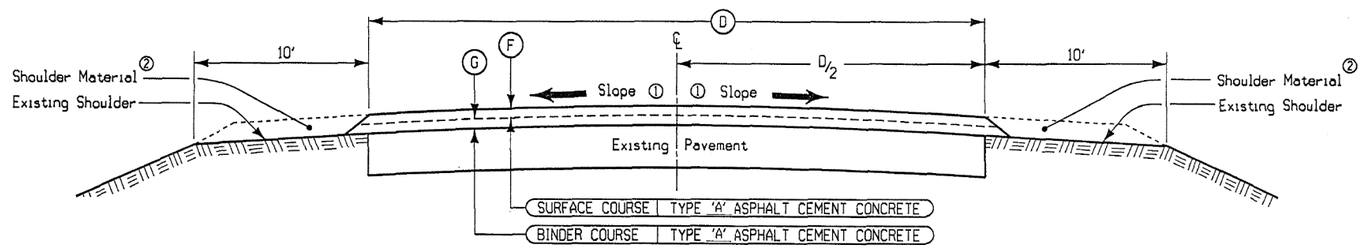
TABLE OF DESIGN QUANTITIES Per Station

LOCATION		DIMENSIONS			PRIME AND TACK COAT	ASPHALT CEMENT	ASPHALT CEMENT CONCRETE Tons	
ROAD IDENT.	STATION TO STATION	(F)	(G)	(D)	Gallons	Tons	SURFACE	BINDER
IA 2	355+50 TO 424+00	1-1/2"	1 1/2"	24'	27.22	2.68	21.11	21.37

TYPICAL CROSS SECTION
ASPHALT CEMENT CONCRETE RESURFACING

Existing Typicals
Project # FN-2-8(23)--21-26
FOR INFORMATION ONLY

2602
10-02-90



Notes:

① Finished slope shall match existing pavement except that the maximum allowable slope is 3.0 %, minimum allowable slope is 2.0 %. Section may be modified as directed by the engineer through areas of special shaping.

Refer to tabulation listing of superelevated curves and Standard Road Plans for additional requirements through superelevated curves.

② Shoulder material as specified elsewhere in these plans; refer to Typicals 7135 "Type 'B' Granular Surfaced Shoulders".

③ Tack Coat estimated for 3 applications in Davis County and 2 applications in Van Buren County.

④ Crown Correction 5.22 tons/sta.

EQUATION: STA. 2381+73.00(BACK)= STA. 3+97.75(AHEAD)
EQUATION: STA. 693+52.70(BACK)= STA. 1723+00.00(AHEAD)

DESIGN RATES	
ITEM	RATE
Surface Course	145 lbs./cu.ft
Binder Course	145 lbs./cu.ft
Tack Coat	0.05 gal./sq.yd.

TABLE OF DESIGN QUANTITIES Per Station

LOCATION			(F)	(G)	(D)	PRIME & TACK COAT	ASPHALT CEMENT	ASPHALT CEMENT CONCRETE Tons	
ROAD IDENTIFICATION	STATION TO STATION		Inches	Inches	Feet	Gallons ③	Tons	SURFACE	BINDER ④
IA 2 (DAVIS CO.)	1642+00	1828+00	1.5	3.5	24	40.88	4.45	21.86	57.11
IA 2 (DAVIS CO.)	1886+00	2036+00	1.5	3.5	24	40.88	4.45	21.86	57.11
IA 2 (DAVIS CO.)	2110+81	2248+00	1.5	3.5	24	40.88	4.45	21.86	57.11
IA 2 (DAVIS CO.)	2274+00	2326+00	1.5	3.5	24	40.88	4.45	21.86	57.11
IA 2 (DAVIS CO.)	2363+00	2377+84	1.5	3.5	24	40.88	4.45	21.86	57.11
IA 2 (VAN BUREN CO.)	2377+84	355+00	1.5	1.5	24	27.08	2.81	21.86	27.31
IA 2 (VAN BUREN CO.)	425+00	1728+60	1.5	1.5	24	27.08	2.81	21.86	27.31

TYPICAL CROSS SECTION
ASPHALT CEMENT CONCRETE RESURFACING

Existing Typicals
Project # STPN-2-8(24)--2J-26
FOR INFORMATION ONLY

100-1C
04-17-12

ESTIMATED PROJECT QUANTITIES
(UP TO A 5 DIVISION PROJECT)

Division 1: Rural
Division 2: Urban

Item No.	Item Code	Item	Unit	Quantities										
				Estimated						As Built				
				Division 1	Division 2	Division 3	Division 4	Division 5	Total	Division 1	Division 2	Division 3	Division 4	Division 5
1	2121-7425020	GRANULAR SHOULDERS, TYPE B	TON	26,605.4	7,117.9				33,723.3					
2	2212-0475095	CLEANING AND PREPARATION OF BASE	MILE	0.4					0.4					
3	2212-5070310	PATCHES, FULL-DEPTH REPAIR	SY	1,940.4	84.0				2,024.4					
4	2212-5070330	PATCHES BY COUNT (REPAIR)	EACH	243	11				254					
5	2214-5145150	PAVEMENT SCARIFICATION	SY	5,337.1	2.6				5,339.7					
6	2303-1043504	HOT MIX ASPHALT HIGH TRAFFIC, SURFACE COURSE, 1/2 IN. MIX, FRICTION L-4	TON	586.53					586.53					
7	2303-1258284	ASPHALT BINDER, PG 58-28H, HIGH TRAFFIC	TON	35.19					35.19					
8	2303-6911000	HOT MIX ASPHALT PAVEMENT SAMPLES	LS	1.00					1.00					
9	2320-0000004	AGGREGATE FOR MICROSURFACING, FRICTION L-4	TON	3,345.138	285.093				3,630.231					
10	2320-0000020	PREPARATION OF SURFACE FOR MICROSURFACING	MILE	37.0	3.2				40.2					
11	2320-0000030	EMULSIFIED ASPHALT FOR MICROSURFACING	GAL	92,599.0	7,891.8				100,490.8					
12	2526-8285000	CONSTRUCTION SURVEY	LS	0.90	0.10				1.00					
13	2527-9263109	PAINTED PAVEMENT MARKING, WATERBORNE OR SOLVENT-BASED	STA	3,252.72	228.92				3,481.64					
14	2527-9263131	WET RETROREFLECTIVE REMOVABLE TAPE MARKINGS	STA	5.76					5.76					
15	2527-9263180	PAVEMENT MARKINGS REMOVED	STA	5.76					5.76					
16	2528-8400256	TEMPORARY TRAFFIC SIGNALS	EACH	4					4					
17	2528-8445110	TRAFFIC CONTROL	LS	0.90	0.10				1.00					
18	2528-8445113	FLAGGERS	EACH						See Proposal					
19	2528-8445115	PILOT CARS	EACH						See Proposal					
20	2529-2242304	CD JOINT ASSEMBLY	EACH	3					3					
21	2529-5070110	PATCHES, FULL-DEPTH FINISH, BY AREA	SY	379.6					379.6					
22	2529-5070111	PATCHES, FULL-DEPTH FINISH, BY AREA (50 FEET OR GREATER IN LENGTH)	SY	89.6					89.6					
23	2529-5070120	PATCHES, FULL-DEPTH FINISH, BY COUNT	EACH	47					47					
24	2533-4980005	MOBILIZATION	LS	0.90	0.10				1.00					
25	2548-0000100	MILLED SHOULDER RUMBLE STRIPS, HMA SURFACE	STA	1,940.3					1,940.3					
26	2548-0000110	ASPHALT EMULSION FOR FOG SEAL (SHOULDER RUMBLE STRIPS)	GAL	2,102.4					2,102.4					
27	2548-0000310	MILLED CENTERLINE RUMBLE STRIPS, HMA SURFACE	STA	1,306.7					1,306.7					
28	2590-0000020	PROJECT MANAGEMENT	LS	0.90	0.10				1.00					

100-1D
10-18-05

PROJECT DESCRIPTION

This project is for the microsurfacing and HMA resurfacing with milling of IA 2 from the East Junction of US 63 to IA 1.
This project also includes patching and milled centerline/shoulder rumble strips.

262-6
10-18-05

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.

105-4
10-18-11

STANDARD ROAD PLANS

The following Standard Road Plans apply to construction work on this project.

Number	Date	Title
PM-110	10-16-18	Line Types
PM-210	10-15-19	Separation in Two-Lane Roadway
PM-420	10-15-19	Two-Lane Roadway with no Turn Lanes (One-Way Stop Condition)
PM-520	10-15-19	Two-Lane Roadway with no Turn Lanes (Two-Way Stop Condition)
PM-522	04-16-19	Two-Lane Roadway with Left Turn Lanes
PR-102	04-21-15	Full Depth PCC Patch without Dowels
PR-202	10-21-14	Notches for Resurfacing (with or without Runout)
PV-12	04-19-16	Milled Shoulder Rumble Strips
PV-13	10-17-17	Milled Centerline Rumble Strips
PV-101	04-16-19	Joints
PV-202	04-16-13	Hot Mix Asphalt Resurfacing
TC-1	10-15-19	Work Not Affecting Traffic (Two-Lane or Multi-Lane)
TC-202	04-21-15	Work Within 15 ft of Traveled Way
TC-212	10-15-19	Spot Location Lane Closure with Flaggers
TC-213	10-15-19	Lane Closure with Flaggers
TC-214	10-15-19	Lane Closure with Flaggers for use with Pilot Car
TC-215	10-15-19	Lane Closure with Signals (Up to Three Days)
TC-231	10-15-19	Slow Moving Vehicle Operating in the Traffic Lane
TC-232	10-21-14	Shoulder Rumble Strip Operations
TC-233	10-17-17	Pavement Marking Operations Two-Lane
TC-282	10-15-19	Uneven Lanes

ESTIMATE REFERENCE INFORMATION

Item No.	Item Code	Description
1	2121-7425020	**GRANULAR SHOULDERS, TYPE B**
		See Typical 7135 Modified for information and locations.
		Quantity increased by 10% for irregularities.
-	-	-
2	2212-0475095	**CLEANING AND PREPARATION OF BASE**
		As per current Standard Specifications and Road Plans.
-	-	-
3	2212-5070310	**PATCHES, FULL-DEPTH REPAIR**
4	2212-5070330	**PATCHES BY COUNT (REPAIR)**
		See Tab 102-6C-REPAIR for locations and information.
		Quantities increased by 5% for irregularities.
-	-	-
5	2214-5145150	**PAVEMENT SCARIFICATION**
		HMA Resurfacing & Pavement Scarification:
		See Typical 2618 Sheet B.1 and Tab 102-16 for locations and information.
		HMA transverse joint (vertical bumps) removal by milling:
		It is the intention of the HMA milling to remove bumps at the existing joints and
		restore to existing typical cross slopes.
		See Existing Typicals Sheets B.3 and B4 for existing pavement information and
		Tab PV-MILL on the C sheets for locations and information.
-	-	-
6	2303-1043504	**HOT MIX ASPHALT HIGH TRAFFIC, SURFACE COURSE, 1/2 IN. MIX, FRICTION L-4**
		See Typical 2618 for locations and information.
		See Tab 102-16 for Surface Notch - Runout.
		Quantities increased by 5% for irregularities.
-	-	-
7	2303-1258284	**ASPHALT BINDER, PG 58-28H, HIGH TRAFFIC**
		See Typical 2618 for locations and information.
		Quantities increased by 5% for irregularities.
-	-	-
8	2303-6911000	**HOT MIX ASPHALT PAVEMENT SAMPLES**
		As per current Standard Specifications and Road Plans.
-	-	-
9	2320-0000004	**AGGREGATE FOR MICROSURFACING, FRICTION L-4**
		Item shall meet General Supplemental Specifications for Polymer-Modified Microsurfacing, placed
		as a two course treatment.
		The first course shall be placed over the existing longitudinal wheel ruts
		as a scratch course with the spreader box using a metal or stiff rubber strike-off.
		Quantity for the first scratch course is estimated at 18.6 pounds per square yard.
		(Length, ft. X 14 ft wide x 2 lanes)/9 x 18.6 lbs/SY x 1 ton/2000 lbs = Aggr. 2 Lanes (4 ruts) First course
		The scratch course shall cure under traffic for at least 24 hours before the 2nd course is placed.
		The second, full lane width, course is estimated at 16.7 pounds per square yard.
		(Length, ft. X 14 ft wide x 2 lanes)/9 x 16.7 lbs/SY x 1 ton/2000 lbs = Aggr. 2 Lanes 2nd course
		See Tab "MSS-Special" for additional information.
-	-	-
10	2320-0000020	**PREPARATION OF SURFACE FOR MICROSURFACING**
		Surface shall be prepared prior to placing each course.
-	-	-
11	2320-0000030	**EMULSIFIED ASPHALT FOR MICROSURFACING**
		Quantity is estimated at 12% of the aggregate.
		Aggr. Ton x 2000 lbs/ton x 1 gal/8.67 lbs x .12 = Gal. Asphalt
		See Tab "MSS-Special" for additional information.
-	-	-
12	2526-8285000	**CONSTRUCTION SURVEY**
		The preservation and referencing of existing Control Points, as indicated by
		article 2526.03, A, 10. HMA Overlays, will not be required by the Contractor.
		The replacing of Control Points after the work is complete, as part of this article,
		also will not be required by the Contractor.
		The District Land Surveyor will reset any land corner monuments or their associated
		permanent reference markers, as a result of their discovery during the progress of
		the project work.
		All other survey necessary for construction of the project, as provided by
		"Section 2526 Construction Survey" will be required. The Contractor shall be responsible
		for maintaining the location of the roadway centerline.
-	-	-

100-4A
10-29-02

ESTIMATE REFERENCE INFORMATION

Item No.	Item Code	Description
13	2527-9263109	**PAINTED PAVEMENT MARKING, WATERBORNE OR SOLVENT-BASED**
		See Tab 108-22 for location and information.
-	-	-
14	2527-9263131	**WET RETROREFLECTIVE REMOVABLE TAPE MARKINGS**
15	2527-9263180	**PAVEMENT MARKINGS REMOVED**
		Pavement Marking Removal quantities and Wet Retrorefective Removable Tape Markings
		quantities include quantities for temporary traffic signals for PCC Patching.
		See TC-215, Tab 108-22 and Tab 108-28 for more information.
-	-	-
16	2528-8400256	**TEMPORARY TRAFFIC SIGNALS**
		This item is for the placement of temporary traffic signals for PCC Patching.
		See TC-215 and Tab 108-28 for locations and information.
-	-	-
17	2528-8445110	**TRAFFIC CONTROL**
		As per current Standard Specifications and Road Standards.
		See Tab 108-23A and 108-26A for additional information.
-	-	-
18	2528-8445113	**FLAGGERS**
19	2528-8445115	**PILOT CARS**
		As per current Standard Specifications and Road Standards.
-	-	-
20	2529-2242304	**CD JOINT ASSEMBLY**
		See Tab 102-6C for locations and information.
-	-	-
21	2529-5070110	**PATCHES, FULL-DEPTH FINISH, BY AREA**
22	2529-5070111	**PATCHES, FULL-DEPTH FINISH, BY AREA (50 FEET OR GREATER IN LENGTH)**
23	2529-5070120	**PATCHES, FULL-DEPTH FINISH, BY COUNT**
		See Tab 102-6C-FINISH for locations and information.
		Quantities increased by 5% for irregularities.
		Calcium chloride shall not be used in the patch concrete within the two-lane highway.
		From April 15th to October 15th, Class C concrete may be used if the maturity method is used.
		Otherwise, Class M concrete shall be used. For Class M concrete, cure time required prior to opening shall
		be a minimum of 24 hours and a minimum flexural strength of 500 psi determined from beam specimens made during
		the progress of the work. With prior approval, the Engineer may waive the restriction of calcium chloride use
		at identified patches located in intersections or other areas that require early opening due to anticipated
		traffic movements.
-	-	-
24	2533-4980005	**MOBILIZATION**
		As per current Standard Specifications.
-	-	-
25	2548-0000100	**MILLED SHOULDER RUMBLE STRIPS, HMA SURFACE**
26	2548-0000110	**ASPHALT EMULSION FOR FOG SEAL (SHOULDER RUMBLE STRIPS)**
		See Tab 112-10 for information and locations.
		See also current Standard Specification and Road Standards.
-	-	-
27	2548-0000310	**MILLED CENTERLINE RUMBLE STRIPS, HMA SURFACE**
		See Tab 112-10 for more information and locations.
-	-	-
28	2590-0000020	**PROJECT MANAGEMENT**
		See Supplemental Specifications.
-	-	-

111-25
10-18-11

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108-28
08-01-08

TEMPORARY TRAFFIC SIGNALS

No.	Location Station	Type: One Lane Traffic	Type: Haul Road	Type: Intersection	Remarks
Division 1 - Rural					
For PCC Patching		4			1 signal system (2 signals)
					per moveable TC-215 setups (4).
					See TC-215
					See Tab 108-22
					See Tab 108-23A

102-16
10-21-14

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.

Location Station	Type of Notch or Runout	S (IN)	I (IN)	DI (IN)	L (FT)	M (IN)	Pavement Scarification (1) (SY)	Remarks
406+90.00	Type 'N2'	2.0				2.0		
425+90.00	Type 'N2'	2.0				2.0		

EXISTING PAVEMENT

No.	Location					Year	Type	Project Number	Surface		Base		Subbase		Removal		Coarse Aggregate			Reinforcement	Remarks
	County	Route	Dir. of Travel	Begin Ref. Loc. Sign	End Ref. Loc. Sign				Type	Depth IN	Type	Depth IN	Type	Depth IN	Type	Depth IN	Source	Type	Durability Class	Type	
	26	IA 2	1	196.44	200.03	1993		STPN-002-8(34)--2J-26	HMA	2					SCR	0.5					
						1993		STPN-2-8(24)--2J-26	AAC	5							DOUDS MINE	C.LST.	2		
						1977		FN-2-8(11)--21-26	PCC	8							DOUDS MINE	C.LST.			
	26	IA 2	1	200.03	201.03	1993		STPN-002-8(34)--2J-26	HMA	1.5	HMA	1.5			SCR	0.5					
						1991		FN-2-8(23)--21-26	AAC	4.5							DOUDS MINE	C.LST.	2		
						1977		FN-2-8(11)--21-26	PCC	8							DOUDS MINE	C.LST.			
	26	IA 2	1	201.03	203.97	1993		STPN-002-8(34)--2J-26	HMA	2					SCR	0.5					
						1993		STPN-2-8(24)--2J-26	AAC	5							DOUDS MINE	C.LST.	2		
						1977		FN-2-8(11)--21-26	PCC	8							DOUDS MINE	C.LST.			
	26	IA 2	1	203.97	204.79	1993		STPN-002-8(34)--2J-26	HMA	1.5	HMA	1.5			SCR	0.5					
						1991		FN-2-8(23)--21-26	AAC	4.5							DOUDS MINE	C.LST.	2		
						1977		FN-2-8(11)--21-26	PCC	8							DOUDS MINE	C.LST.			
	26	IA 2	1	204.79	210.41	1993		STPN-002-8(34)--2J-26	HMA	2					SCR	0.5					
						1993		STPN-2-8(24)--2J-26	AAC	5							DOUDS MINE	C.LST.	2		
						1977		FN-2-8(11)--21-26	PCC	8							DOUDS MINE	C.LST.			
	89	IA 2	1	210.41	213.34	1993		STPN-002-8(34)--2J-26	HMA	1.5	HMA	1.5			SCR	0.5					
						1993		NA	AAC	3											
						1968		NA	PCC	9											
	89	IA 2	1	213.34	218.58	1993		STPN-002-8(34)--2J-26	HMA	1.5	HMA	1.5			SCR	0.5					
						1993		STPN-2-8(24)--2J-26	AAC	1.5							DOUDS MINE	C.LST.	I		
						1970		F-2-9(5)--20-89	PCC	9							FARMINGTON-COM	C.LST.			VAR LOC 91 AC
	89	IA 2	1	218.58	219.88	1991		FN-2-8(23)--21-26	AAC	3							DOUDS MINE	C.LST.			
						1970		F-2-9(5)--20-89	PCC	9							FARMINGTON-COM	C.LST.	I		
	89	IA 2	1	219.88	225.22	1993		STPN-2-8(24)--2J-26	AAC	1.5							DOUDS MINE	C.LST.			
						1970		F-2-9(5)--20-89	PCC	9							FARMINGTON-COM	C.LST.	I		VAR LOC AC

AAC	TYPE A ASPHALT CEMENT CONCRETE	FOA	FOAMED ASPHALT	RSB	ROLLED STONE BASE
ARC	ASPHALT RUBBER CEMENT CONCRETE	GSB	GRANULAR SUBBASE	SAS	SOIL AGGREGATE SUBBASE
ASC	ASPHALT-SAND SURFACE COURSE	HMA	HOT MIX ASPHALT	SCS	SOIL-CEMENT SUBBASE
ATB	ASPHALT TREATED BASE	MSB	MODIFIED SUBBASE	SLS	SOIL-LIME SUBBASE
CIP	COLD IN-PLACE ASPHALT	PC7	10-7"-10" PCC CONCRETE SLAB "	TBB	TYPE B ASPHALT CEMENT CONCRETE BASE
BAC	TYPE B ASPHALT CEMENT CONCRETE	PC8	10-8"-10" PCC CONCRETE SLAB "	MSS	MICRO SURFACING
BSC	BITUMINOUS SEAL COAT	PCB	PORTLAND CEMENT CONCRETE BASE	SS	SLURRY SEAL
BTB	BITUMINOUS TREATED AGGREGATE BASE	PCC	PORTLAND CEMENT CONCRETE	SBF	SPECIAL BACKFILL
CTB	CEMENT TREATED BASE	RAC	RECYCLED ASPHALT CEMENT CONCRETE	SCR	SCARIFICATION
ECB	ECONOCRETE BASE	RPC	RECYCLED PCC PAVEMENT	MIL	MILLED SURFACED

DEPTH/THICKNESS FOR SURFACE, BASE AND SUB-BASE ARE IN ENGLISH UNITS

DIRECTION DESCRIPTTION	TYPE COLUMN KEY
1 NB OR EB	V-VARIOUS LOCATIONS
2 SB OR WB	W-WIDENING
	L-LEFT LANE ONLY
	R-RIGHT LANE ONLY

FULL-DEPTH REPAIR PATCHES

Possible Standards: PR-101, PR-102, PR-103, PR-104, PR-105 and PR-140.

Location				Dimension			PCC Patches													
Count	Station	Reference Location Sign	Lane	Length	Width	Patch Thickness	With Dowels	Without Dowels	C R C	Ramp with Dowels	HMA Patches	Composite HMA	Subbase Patches	Subbase Patch w/ 'EF' Joint	Patch Subdrain	'CD' Joints	'CT' Joints	'EF' Joints	Anchor Lugs Removal	Remarks
							PR-103	PR-102	PR-104	PR-105			PR-140	PR-101	PR-101 or PR-140			PR-101		
			L, R, or B	FT	FT	IN	SY	SY	SY	SY	SY	TON	SY	SY	No.	No.	No.	No.	No.	
Begin Division 1 - Rural																				
1	196+99		R	6.0	12.0	14.5	8.0													
1	196+99		L	6.0	12.0	14.5	8.0													
1	197+04		R	6.0	12.0	14.5	8.0													
1	197+04		L	6.0	12.0	14.5	8.0													
1	197+10		L	6.0	12.0	14.5	8.0													
1	197+12		R	6.0	12.0	14.5	8.0													
1	197+12		L	6.0	12.0	14.5	8.0													
1	197+22		L	6.0	12.0	14.5	8.0													
1	197+30		L	6.0	12.0	14.5	8.0													
1	197+49		R	6.0	12.0	14.5	8.0													
1	197+50		L	6.0	12.0	14.5	8.0													
1	197+58		R	6.0	12.0	14.5	8.0													
1	197+58		L	6.0	12.0	14.5	8.0													
1	197+68		R	6.0	12.0	14.5	8.0													
1	197+70		R	6.0	12.0	14.5	8.0													
1	198+12		R	6.0	12.0	14.5	8.0													
1	198+12		L	6.0	12.0	14.5	8.0													
1	198+31		L	6.0	12.0	14.5	8.0													
1	198+38		R	6.0	12.0	14.5	8.0													
1	198+38		L	6.0	12.0	14.5	8.0													
1	198+49		R	6.0	12.0	14.5	8.0													
1	198+49		L	6.0	12.0	14.5	8.0													
1	198+64		R	6.0	12.0	14.5	8.0													
1	198+64		L	6.0	12.0	14.5	8.0													
1	198+97		R	6.0	12.0	14.5	8.0													
1	198+97		L	6.0	12.0	14.5	8.0													
1	199+07		L	6.0	12.0	14.5	8.0													
1	199+28		R	6.0	12.0	14.5	8.0													
1	199+28		L	6.0	12.0	14.5	8.0													
1	199+40		L	6.0	12.0	14.5	8.0													
1	199+67		R	6.0	12.0	14.5	8.0													
1	199+67		L	6.0	12.0	14.5	8.0													
1	200+33		R	6.0	12.0	15.0	8.0													
1	200+33		L	6.0	12.0	15.0	8.0													
1	200+85		R	6.0	12.0	15.0	8.0													
1	200+85		L	6.0	12.0	14.5	8.0													
1	201+04		R	6.0	12.0	14.5	8.0													
1	201+04		L	6.0	12.0	14.5	8.0													
1	201+23		L	6.0	12.0	14.5	8.0													
1	201+32		R	6.0	12.0	14.5	8.0													
1	201+32		L	6.0	12.0	14.5	8.0													
1	201+52		R	6.0	12.0	14.5	8.0													
1	201+52		L	6.0	12.0	14.5	8.0													
1	201+63		R	6.0	12.0	14.5	8.0													
1	201+63		L	6.0	12.0	14.5	8.0													
1	201+69		R	6.0	12.0	14.5	8.0													
1	201+69		L	6.0	12.0	14.5	8.0													
1	201+88		R	6.0	12.0	14.5	8.0													
1	202+03		R	6.0	12.0	14.5	8.0													
1	202+09		L	6.0	12.0	14.5	8.0													
1	202+17		R	6.0	12.0	14.5	8.0													
1	202+17		L	6.0	12.0	14.5	8.0													
1	202+51		R	6.0	12.0	14.5	8.0													
1	202+51		L	6.0	12.0	14.5	8.0													
1	202+72		R	6.0	12.0	14.5	8.0													
1	202+72		L	6.0	12.0	14.5	8.0													
1	202+80		R	6.0	12.0	14.5	8.0													
1	202+80		L	6.0	12.0	14.5	8.0													
1	202+91		R	6.0	12.0	14.5	8.0													
1	202+91		L	6.0	12.0	14.5	8.0													
1	203+28		R	6.0	12.0	14.5	8.0													
1	203+28		L	6.0	12.0	14.5	8.0													
1	203+43		L	6.0	12.0	14.5	8.0													
1	203+74		L	6.0	12.0	14.5	8.0													
1	203+99		R	6.0	12.0	15.0	8.0													
1	203+99		L	6.0	12.0	15.0	8.0													
1	204+22		R	6.0	12.0	15.0	8.0													
1	204+22		L	6.0	12.0	15.0	8.0													
1	204+28		L	6.0	12.0	15.0	8.0													
1	205+42		R	6.0	12.0	14.5	8.0													
1	205+42		L	6.0	12.0	14.5	8.0													
1	205+64		R	6.0	12.0	14.5	8.0													
1	205+64		L	6.0	12.0	14.5	8.0													
1	205+77		R	6.0	12.0	14.5	8.0													
1	205+77		L	6.0	12.0	14.5	8.0													
1	205+85		R	6.0	12.0	14.5	8.0													
1	205+85		L	6.0	12.0	14.5	8.0													
1	205+99		R	6.0	12.0	14.5	8.0													

FULL-DEPTH REPAIR PATCHES

Possible Standards: PR-101, PR-102, PR-103, PR-104, PR-105 and PR-140.

Location				Dimension			PCC Patches													
Count	Station	Reference Location Sign	Lane	Length	Width	Patch Thickness	With Dowels	Without Dowels	C R C	Ramp with Dowels	HMA Patches	Composite HMA	Subbase Patches	Subbase Patch w/ 'EF' Joint	Patch Subdrain	'CD' Joints	'CT' Joints	'EF' Joints	Anchor Lugs Removal	Remarks
							PR-103	PR-102	PR-104	PR-105			PR-140	PR-101	PR-101 or PR-140			PR-101		
			L, R, or B	FT	FT	IN	SY	SY	SY	SY	SY	TON	SY	SY	No.	No.	No.	No.	No.	
1	205+99		L	6.0	12.0	14.5	8.0													
1	206+07		L	6.0	12.0	14.5	8.0													
1	206+11		R	6.0	12.0	14.5	8.0													
1	206+17		R	6.0	12.0	14.5	8.0													
1	206+17		L	6.0	12.0	14.5	8.0													
1	206+34		R	6.0	12.0	14.5	8.0													
1	206+34		L	6.0	12.0	14.5	8.0													
1	206+43		L	6.0	12.0	14.5	8.0													
1	206+46		R	6.0	12.0	14.5	8.0													
1	206+46		L	6.0	12.0	14.5	8.0													
1	206+52		L	6.0	12.0	14.5	8.0													
1	206+84		R	6.0	12.0	14.5	8.0													
1	206+84		L	6.0	12.0	14.5	8.0													
1	206+91		R	6.0	12.0	14.5	8.0													
1	206+91		L	6.0	12.0	14.5	8.0													
1	207+01		R	6.0	12.0	14.5	8.0													
1	207+01		L	6.0	12.0	14.5	8.0													
1	207+06		R	6.0	12.0	14.5	8.0													
1	207+09		R	6.0	12.0	14.5	8.0													
1	207+09		L	6.0	12.0	14.5	8.0													
1	207+11		R	6.0	12.0	14.5	8.0													
1	207+15		R	6.0	12.0	14.5	8.0													
1	207+15		L	6.0	12.0	14.5	8.0													
1	207+17		R	6.0	12.0	14.5	8.0													
1	207+17		L	6.0	12.0	14.5	8.0													
1	207+19		R	6.0	12.0	14.5	8.0													
1	207+19		L	6.0	12.0	14.5	8.0													
1	207+24		R	6.0	12.0	14.5	8.0													
1	207+24		L	6.0	12.0	14.5	8.0													
1	207+26		R	6.0	12.0	14.5	8.0													
1	207+26		L	6.0	12.0	14.5	8.0													
1	207+33		R	6.0	12.0	14.5	8.0													
1	207+33		L	6.0	12.0	14.5	8.0													
1	207+47		L	6.0	12.0	14.5	8.0													
1	207+52		L	6.0	12.0	14.5	8.0													
1	207+52		R	6.0	12.0	14.5	8.0													
1	207+69		R	6.0	12.0	14.5	8.0													
1	207+69		L	6.0	12.0	14.5	8.0													
1	207+75		R	6.0	12.0	14.5	8.0													
1	207+75		L	6.0	12.0	14.5	8.0													
1	207+80		L	6.0	12.0	14.5	8.0													
1	207+85		R	6.0	12.0	14.5	8.0													
1	207+87		L	6.0	12.0	14.5	8.0													
1	207+90		R	6.0	12.0	14.5	8.0													
1	207+90		L	6.0	12.0	14.5	8.0													
1	207+93		R	6.0	12.0	14.5	8.0													
1	207+94		L	6.0	12.0	14.5	8.0													
1	208+12		R	6.0	12.0	14.5	8.0													
1	208+13		L	6.0	12.0	14.5	8.0													
1	208+25		L	6.0	12.0	14.5	8.0													
1	208+44		L	6.0	12.0	14.5	8.0													
1	208+48		R	6.0	12.0	14.5	8.0													
1	208+48		L	6.0	12.0	14.5	8.0													
1	208+76		R	6.0	12.0	14.5	8.0													
1	208+76		L	6.0	12.0	14.5	8.0													
1	208+89		R	6.0	12.0	14.5	8.0													
1	208+89		L	6.0	12.0	14.5	8.0													
1	208+98		R	6.0	12.0	14.5	8.0													
1	209+03		R	6.0	12.0	14.5	8.0													
1	209+03		L	6.0	12.0	14.5	8.0													
1	209+13		R	6.0	12.0	14.5	8.0													
1	209+14		L	6.0	12.0	14.5	8.0													
1	209+31		L	6.0	12.0	14.5	8.0													
1	209+43		R	6.0	12.0	14.5	8.0													
1	209+43		L	6.0	12.0	14.5	8.0													
1	209+51		R	6.0	12.0	14.5	8.0													
1	209+51		L	6.0	12.0	14.5	8.0													
1	209+71		L	6.0	12.0	14.5	8.0													
1	209+74		R	6.0	12.0	14.5	8.0													
1	209+98		R	6.0	12.0	14.5	8.0													
1	209+98		L	6.0	12.0	14.5	8.0													
1	210+13		L	6.0	12.0	14.5	8.0													
1	210+26		L	6.0	12.0	14.5	8.0													
1	210+37		L	6.0	12.0	14.5	8.0													
Stop Division 1 - Rural																				
Begin Division 2 - Urban																				
1	211+83		R	6.0	12.0	14.5	8.0													
1	211+83		L	6.0	12.0	14.5	8.0													
1	211+89		R	6.0	12.0	14.5	8.0													

FULL-DEPTH REPAIR PATCHES

Possible Standards: PR-101, PR-102, PR-103, PR-104, PR-105 and PR-140.

Location				Dimension			PCC Patches													
Count	Station	Reference Location Sign	Lane	Length	Width	Patch Thickness	With Dowels	Without Dowels	C R C	Ramp with Dowels	HMA Patches	Composite HMA	Subbase Patches	Subbase Patch w/ 'EF' Joint	Patch Subdrain	'CD' Joints	'CT' Joints	'EF' Joints	Anchor Lugs Removal	Remarks
							PR-103	PR-102	PR-104	PR-105			PR-140	PR-101	PR-101 or PR-140			PR-101		
			L, R, or B	FT	FT	IN	SY	SY	SY	SY	SY	TON	SY	SY	No.	No.	No.	No.	No.	
1	211+89		L	6.0	12.0	14.5	8.0													
1	211+90		R	6.0	12.0	14.5	8.0													
1	211+90		L	6.0	12.0	14.5	8.0													
1	212+37		R	6.0	12.0	14.5	8.0													
1	212+37		L	6.0	12.0	14.5	8.0													
1	212+45		L	6.0	12.0	14.5	8.0													
1	212+45		R	6.0	12.0	14.5	8.0													
End Division 2 - Urban																				
Resume Division 1 Rural																				
1	213+50		R	6.0	12.0	13.0	8.0													
1	213+50		L	6.0	12.0	13.0	8.0													
1	213+77		R	6.0	12.0	13.0	8.0													
1	213+80		L	6.0	12.0	13.0	8.0													
1	213+89		L	6.0	12.0	13.0	8.0													
1	213+90		R	6.0	12.0	13.0	8.0													
1	214+04		R	6.0	12.0	13.0	8.0													
1	214+04		L	6.0	12.0	13.0	8.0													
1	214+08		R	6.0	12.0	13.0	8.0													
1	214+14		R	6.0	12.0	13.0	8.0													
1	214+18		R	6.0	12.0	13.0	8.0													
1	214+24		R	6.0	12.0	13.0	8.0													
1	214+24		L	6.0	12.0	13.0	8.0													
1	214+30		R	6.0	12.0	13.0	8.0													
1	214+32		R	6.0	12.0	13.0	8.0													
1	214+32		L	6.0	12.0	13.0	8.0													
1	214+37		R	6.0	12.0	13.0	8.0													
1	214+37		L	6.0	12.0	13.0	8.0													
1	214+46		R	6.0	12.0	13.0	8.0													
1	214+48		R	6.0	12.0	13.0	8.0													
1	214+48		L	6.0	12.0	13.0	8.0													
1	214+53		R	6.0	12.0	13.0	8.0													
1	214+53		L	6.0	12.0	13.0	8.0													
1	214+54		R	6.0	12.0	13.0	8.0													
1	214+54		L	6.0	12.0	13.0	8.0													
1	214+55		R	6.0	12.0	13.0	8.0													
1	214+55		L	6.0	12.0	13.0	8.0													
1	214+56		R	6.0	12.0	13.0	8.0													
1	214+56		L	6.0	12.0	13.0	8.0													
1	214+58		R	6.0	12.0	13.0	8.0													
1	214+59		R	6.0	12.0	13.0	8.0													
1	214+60		L	6.0	12.0	13.0	8.0													
1	214+62		L	6.0	12.0	13.0	8.0													
1	214+65		R	6.0	12.0	13.0	8.0													
1	214+65		L	6.0	12.0	13.0	8.0													
1	214+71		L	6.0	12.0	13.0	8.0													
1	214+72		R	6.0	12.0	13.0	8.0													
1	214+74		R	6.0	12.0	13.0	8.0													
1	214+74		L	6.0	12.0	13.0	8.0													
1	214+76		R	6.0	12.0	13.0	8.0													
1	214+77		R	6.0	12.0	13.0	8.0													
1	214+81		L	6.0	12.0	13.0	8.0													
1	214+84		R	6.0	12.0	13.0	8.0													
1	214+84		L	6.0	12.0	13.0	8.0													
1	214+87		R	6.0	12.0	13.0	8.0													
1	214+92		L	6.0	12.0	13.0	8.0													
1	215+02		L	6.0	12.0	13.0	8.0													
1	215+05		R	6.0	12.0	13.0	8.0													
1	215+05		L	6.0	12.0	13.0	8.0													
1	215+07		R	6.0	12.0	13.0	8.0													
1	215+10		R	6.0	12.0	13.0	8.0													
1	215+10		L	6.0	12.0	13.0	8.0													
1	215+15		R	6.0	12.0	13.0	8.0													
1	215+15		L	6.0	12.0	13.0	8.0													
1	215+20		L	6.0	12.0	13.0	8.0													
1	215+27		R	6.0	12.0	13.0	8.0													
1	215+27		L	6.0	12.0	13.0	8.0													
1	215+35		R	6.0	12.0	13.0	8.0													
1	215+43		R	6.0	12.0	13.0	8.0													
1	215+43		L	6.0	12.0	13.0	8.0													
1	215+45		R	6.0	12.0	13.0	8.0													
1	215+54		R	6.0	12.0	13.0	8.0													
1	215+54		L	6.0	12.0	13.0	8.0													
1	215+59		R	6.0	12.0	13.0	8.0													
1	215+59		L	6.0	12.0	13.0	8.0													
1	215+93		R	6.0	12.0	13.0	8.0													
1	215+93		L	6.0	12.0	13.0	8.0													
1	215+08		R	6.0	12.0	13.0	8.0													
1	216+20		R	6.0	12.0	13.0	8.0													
1	216+20		L	6.0	12.0	13.0	8.0													

FULL-DEPTH REPAIR PATCHES

Possible Standards: PR-101, PR-102, PR-103, PR-104, PR-105 and PR-140.

Location				Dimension			PCC Patches													
Count	Station	Reference Location Sign	Lane	Length	Width	Patch Thickness	With Dowels	Without Dowels	C R C	Ramp with Dowels	HMA Patches	Composite HMA	Subbase Patches	Subbase Patch w/ 'EF' Joint	Patch Subdrain	'CD' Joints	'CT' Joints	'EF' Joints	Anchor Lugs Removal	Remarks
							PR-103	PR-102	PR-104	PR-105			PR-140	PR-101	PR-101 or PR-140			PR-101		
			L, R, or B	FT	FT	IN	SY	SY	SY	SY	SY	TON	SY	SY	No.	No.	No.	No.	No.	
1	216+38		R	6.0	12.0	13.0	8.0													
1	216+39		R	6.0	12.0	13.0	8.0													
1	216+57		L	6.0	12.0	13.0	8.0													
1	216+74		R	6.0	12.0	13.0	8.0													
1	216+74		L	6.0	12.0	13.0	8.0													
1	216+81		R	6.0	12.0	13.0	8.0													
1	216+81		L	6.0	12.0	13.0	8.0													
1	216+92		L	6.0	12.0	13.0	8.0													
1	216+94		R	6.0	12.0	13.0	8.0													
End Division 1 - Rural																				
241	Totals						1928.0													Calcium is allowed on these repair patches since they will be overlayed.
231	Totals Division 1 - Rural						1848.0													Standard Road Plan TC-213 or TC-214 are to be applied (no signals).
10	Totals Division 2 - Urban						80.0													

FULL-DEPTH FINISH PATCHES

Possible Standards: PR-101, PR-102, PR-103, PR-104, PR-105 and PR-140.

Location				Dimension			PCC Patches													
Count	Station	Reference Location Sign	Lane	Length	Width	Patch Thickness	With Dowels	Without Dowels	C R C	Ramp with Dowels	HMA Patches	Composite HMA	Subbase Patches	Subbase Patch w/ 'EF' Joint	Patch Subdrain	'CD' Joints	'CT' Joints	'EF' Joints	Anchor Lugs Removal	Remarks
							PR-103	PR-102	PR-104	PR-105			PR-140	PR-101	PR-101 or PR-140			PR-101		
			L, R, or B	FT	FT	IN	SY	SY	SY	SY	SY	TON	SY	SY	No.	No.	No.	No.	No.	
Begin Division 1 - Rural																				
1		218.980	R	6.0	12.0	12.0	8.0													
1		218.980	L	6.0	12.0	12.0	8.0													
1		219.030	R	6.0	12.0	12.0	8.0													
1		219.030	L	6.0	12.0	12.0	8.0													
1		219.080	R	6.0	12.0	12.0	8.0													
1		219.080	L	6.0	12.0	12.0	8.0													
1		219.090	R	6.0	12.0	12.0	8.0													
1		219.150	R	6.0	12.0	12.0	8.0													
1		219.150	L	6.0	12.0	12.0	8.0													
1		219.200	R	6.0	12.0	12.0	8.0													
1		219.200	L	6.0	12.0	12.0	8.0													
1		219.300	R	6.0	12.0	12.0	8.0													
1		219.300	L	6.0	12.0	12.0	8.0													
1		219.320	R	6.0	12.0	12.0	8.0													
1		219.320	L	6.0	12.0	12.0	8.0													
1		219.390	R	6.0	12.0	12.0	8.0													
1		219.470	R	6.0	12.0	12.0	8.0													
1		219.470	L	6.0	12.0	12.0	8.0													
1		219.500	R	6.0	12.0	12.0	8.0													
1		219.500	L	6.0	12.0	12.0	8.0													
1		219.670	R	8.0	12.0	12.0	10.7													
1		219.670	L	8.0	12.0	12.0	10.7													
1		219.690	R	8.0	12.0	12.0	10.7													
1		219.690	L	8.0	12.0	12.0	10.7													
1		219.840	L	8.0	12.0	12.0	10.7													
1		219.900	R	6.0	12.0	10.5	8.0													
1		219.900	L	6.0	12.0	10.5	8.0													
1		220.040	R	6.0	12.0	10.5	8.0													
1		220.040	L	6.0	12.0	10.5	8.0													
1		220.060	L	6.0	12.0	10.5	8.0													
1		220.200	R	6.0	12.0	10.5	8.0													
1		220.200	L	6.0	12.0	10.5	8.0													
1		220.820	L	6.0	6.0	10.5	4.0													
1		220.930	L	6.0	12.0	10.5	8.0													
1		222.446	R	6.0	12.0	10.5	8.0													
1		224.459	R	6.0	12.0	10.5	8.0													
1		224.459	L	6.0	12.0	10.5	8.0													
1		224.582	R	6.0	12.0	10.5	8.0													
1		224.582	L	6.0	12.0	10.5	8.0													
1		225.140	R	64.0	12.0	10.5	85.3									3				
1		225.174	R	6.0	12.0	10.5	8.0													
1		225.200	L	6.0	12.0	10.5	8.0													
1		225.204	L	6.0	12.0	10.5	8.0													
1		225.215	L	6.0	12.0	10.5	8.0													
1		225.219	L	6.0	12.0	10.5	8.0													
End Division 1 - Rural																				
45	Totals Division 1 - Rural						446.8									3				See No Calcium Note in Bid Item Reference Note.
44	Patches Less Than 50' in Length						361.5													Since No Calcium requirement needs more cure time, Road Standard TC-215 (signals) is to be used.
1	Patches 50' or Greater in Length						85.3													Also see Tab 108-23A.

PV-MILL

PAVEMENT SCARIFICATION

Location				Dimension Of Scarification			Estimated Quantities		Remarks
No.	Station	Reference Location Sign	Lane	Length x Width FT			SY	TON	
Begin Division 1 - Rural									Note 1: For transverse vertical bumps.
		197.059	RT	1.0	x	12.0	1.3		Do not mill proposed full depth locations.
		197.059	LT	1.0	x	12.0	1.3		
		197.099	LT	1.0	x	12.0	1.3		
		197.219	RT	1.0	x	12.0	1.3		
		197.296	RT	1.0	x	12.0	1.3		
		197.299	RT	1.0	x	12.0	1.3		
		197.394	RT	1.0	x	12.0	1.3		
		197.394	LT	1.0	x	12.0	1.3		
		197.634	RT	1.0	x	12.0	1.3		
		197.689	LT	1.0	x	12.0	1.3		
		197.776	RT	1.0	x	12.0	1.3		
		197.793	RT	1.0	x	12.0	1.3		
		197.793	LT	1.0	x	12.0	1.3		
		197.819	RT	1.0	x	12.0	1.3		
		197.878	RT	1.0	x	12.0	1.3		
		197.878	LT	1.0	x	12.0	1.3		
		197.916	RT	1.0	x	12.0	1.3		
		197.916	LT	1.0	x	12.0	1.3		
		197.967	RT	1.0	x	12.0	1.3		
		197.967	LT	1.0	x	12.0	1.3		
		198.003	RT	1.0	x	12.0	1.3		
		198.233	RT	1.0	x	12.0	1.3		
		198.233	LT	1.0	x	12.0	1.3		
		198.307	RT	1.0	x	12.0	1.3		
		198.307	LT	1.0	x	12.0	1.3		
		198.311	RT	1.0	x	12.0	1.3		
		198.752	RT	1.0	x	12.0	1.3		
		198.754	LT	1.0	x	12.0	1.3		
		198.890	RT	1.0	x	12.0	1.3		
		198.914	LT	1.0	x	12.0	1.3		
		199.137	RT	1.0	x	12.0	1.3		
		199.141	LT	1.0	x	12.0	1.3		
		199.171	RT	1.0	x	12.0	1.3		
		199.171	LT	1.0	x	12.0	1.3		
		199.497	RT	1.0	x	12.0	1.3		
		199.546	LT	1.0	x	12.0	1.3		
		199.583	LT	1.0	x	12.0	1.3		
		199.731	RT	1.0	x	12.0	1.3		
		199.731	LT	1.0	x	12.0	1.3		
		199.929	RT	1.0	x	12.0	1.3		
		199.929	LT	1.0	x	12.0	1.3		
		200.680	RT	1.0	x	12.0	1.3		
		200.680	LT	1.0	x	12.0	1.3		
		200.121	RT	1.0	x	12.0	1.3		
		200.121	LT	1.0	x	12.0	1.3		
		200.226	RT	1.0	x	12.0	1.3		
		200.278	RT	1.0	x	12.0	1.3		
		200.278	LT	1.0	x	12.0	1.3		
		200.587	RT	1.0	x	12.0	1.3		
		200.620	LT	1.0	x	12.0	1.3		
		200.662	RT	1.0	x	12.0	1.3		
		200.709	RT	1.0	x	12.0	1.3		
		200.717	LT	1.0	x	12.0	1.3		
		200.758	LT	1.0	x	12.0	1.3		
		200.761	RT	1.0	x	12.0	1.3		
		200.868	RT	1.0	x	12.0	1.3		
		200.872	LT	1.0	x	12.0	1.3		
		200.982	RT	1.0	x	12.0	1.3		
		201.008	RT	1.0	x	12.0	1.3		
		201.099	RT	1.0	x	12.0	1.3		
		201.099	LT	1.0	x	12.0	1.3		
		201.139	RT	1.0	x	12.0	1.3		
		201.295	RT	1.0	x	12.0	1.3		
		201.373	LT	1.0	x	12.0	1.3		
		201.393	RT	1.0	x	12.0	1.3		
		201.484	LT	1.0	x	12.0	1.3		
		201.562	RT	1.0	x	12.0	1.3		
		201.580	RT	1.0	x	12.0	1.3		
		201.799	LT	1.0	x	12.0	1.3		
		201.869	LT	1.0	x	12.0	1.3		
		201.933	RT	1.0	x	12.0	1.3		
		202.363	RT	1.0	x	12.0	1.3		
		202.460	LT	1.0	x	12.0	1.3		
		202.468	RT	1.0	x	12.0	1.3		
		202.583	RT	1.0	x	12.0	1.3		
		202.583	LT	1.0	x	12.0	1.3		
		202.651	RT	1.0	x	12.0	1.3		
		202.747	RT	1.0	x	12.0	1.3		
		202.747	LT	1.0	x	12.0	1.3		

PV-MILL

PAVEMENT SCARIFICATION

Location				Dimension Of Scarification			Estimated Quantities		Remarks
No.	Station	Reference Location Sign	Lane	Length x Width FT			SY	TON	
		202.805	LT	1.0	x	12.0	1.3		
		202.871	RT	1.0	x	12.0	1.3		
		203.000	RT	1.0	x	12.0	1.3		
		203.000	LT	1.0	x	12.0	1.3		
		203.167	RT	1.0	x	12.0	1.3		
		203.167	LT	1.0	x	12.0	1.3		
		203.359	RT	1.0	x	12.0	1.3		
		203.359	LT	1.0	x	12.0	1.3		
		203.411	RT	1.0	x	12.0	1.3		
		203.464	RT	1.0	x	12.0	1.3		
		203.464	LT	1.0	x	12.0	1.3		
		203.480	RT	1.0	x	12.0	1.3		
		203.581	LT	1.0	x	12.0	1.3		
		203.682	RT	1.0	x	12.0	1.3		
		203.914	RT	1.0	x	12.0	1.3		
		203.914	LT	1.0	x	12.0	1.3		
		203.937	RT	1.0	x	12.0	1.3		
		203.937	LT	1.0	x	12.0	1.3		
		204.147	LT	1.0	x	12.0	1.3		
		204.152	RT	1.0	x	12.0	1.3		
		204.291	RT	1.0	x	12.0	1.3		
		204.341	RT	1.0	x	12.0	1.3		
		204.459	LT	1.0	x	12.0	1.3		
		204.588	LT	1.0	x	12.0	1.3		
		204.716	RT	1.0	x	12.0	1.3		
		204.766	RT	1.0	x	12.0	1.3		
		205.569	RT	1.0	x	12.0	1.3		
		205.569	LT	1.0	x	12.0	1.3		
		205.658	RT	1.0	x	12.0	1.3		
		205.728	RT	1.0	x	12.0	1.3		
		205.728	LT	1.0	x	12.0	1.3		
		205.795	RT	1.0	x	12.0	1.3		
		205.795	LT	1.0	x	12.0	1.3		
		205.058	RT	1.0	x	12.0	1.3		
		206.107	LT	1.0	x	12.0	1.3		
		206.111	LT	1.0	x	12.0	1.3		
		206.229	RT	1.0	x	12.0	1.3		
		206.229	LT	1.0	x	12.0	1.3		
		206.427	RT	1.0	x	12.0	1.3		
		206.493	RT	1.0	x	12.0	1.3		
		206.516	RT	1.0	x	12.0	1.3		
		206.604	RT	1.0	x	12.0	1.3		
		260.620	RT	1.0	x	12.0	1.3		
		206.654	RT	1.0	x	12.0	1.3		
		206.674	RT	1.0	x	12.0	1.3		
		206.757	RT	1.0	x	12.0	1.3		
		206.757	LT	1.0	x	12.0	1.3		
		206.784	RT	1.0	x	12.0	1.3		
		206.816	RT	1.0	x	12.0	1.3		
		206.819	LT	1.0	x	12.0	1.3		
		207.076	RT	1.0	x	12.0	1.3		
		207.106	LT	1.0	x	12.0	1.3		
		207.175	RT	1.0	x	12.0	1.3		
		207.374	LT	1.0	x	12.0	1.3		
		207.411	RT	1.0	x	12.0	1.3		
		207.419	LT	1.0	x	12.0	1.3		
		207.441	RT	1.0	x	12.0	1.3		
		207.441	LT	1.0	x	12.0	1.3		
		207.486	LT	1.0	x	12.0	1.3		
		207.501	LT	1.0	x	12.0	1.3		
		207.531	RT	1.0	x	12.0	1.3		
		207.599	LT	1.0	x	12.0	1.3		
		207.603	LT	1.0	x	12.0	1.3		
		207.791	RT	1.0	x	12.0	1.3		
		207.926	RT	1.0	x	12.0	1.3		
		207.933	LT	1.0	x	12.0	1.3		
		207.972	LT	1.0	x	12.0	1.3		
		208.033	LT	1.0	x	12.0	1.3		
		208.199	RT	1.0	x	12.0	1.3		
		208.199	LT	1.0	x	12.0	1.3		
		208.227	RT	1.0	x	12.0	1.3		
		208.563	RT	1.0	x	12.0	1.3		
		208.563	LT	1.0	x	12.0	1.3		
		208.975	LT	1.0	x	12.0	1.3		
		209.413	LT	1.0	x	12.0	1.3		
		209.562	LT	1.0	x	12.0	1.3		
		209.567	RT	1.0	x	12.0	1.3		
		209.606	RT	1.0	x	12.0	1.3		
		210.332	RT	1.0	x	12.0	1.3		
		210.336	LT	1.0	x	12.0	1.3		

PV-MILL

PAVEMENT SCARIFICATION

Location				Dimension Of Scarification			Estimated Quantities		Remarks
No.	Station	Reference Location Sign	Lane	Length x Width FT			SY	TON	
		210.368	RT	1.0	x	12.0	1.3		
		210.372	RT	1.0	x	12.0	1.3		
		210.409	LT	1.0	x	12.0	1.3		
Stop Division 1 - Rural									
Begin Division 2 - Urban									
		211.788	RT	1.0	x	12.0	1.3		
		211.822	LT	1.0	x	12.0	1.3		
End Division 2 - Urban									
Resume Division 1 - Rural									
		214.566	LT	1.0	x	12.0	1.3		
		214.622	RT	1.0	x	12.0	1.3		
		214.660	RT	1.0	x	12.0	1.3		
		214.699	LT	1.0	x	12.0	1.3		
		214.727	RT	1.0	x	12.0	1.3		
		214.727	LT	1.0	x	12.0	1.3		
		214.799	RT	1.0	x	12.0	1.3		
		215.019	RT	1.0	x	12.0	1.3		
		215.080	RT	1.0	x	12.0	1.3		
		215.122	LT	1.0	x	12.0	1.3		
		215.175	LT	1.0	x	12.0	1.3		
		215.209	RT	1.0	x	12.0	1.3		
		215.209	LT	1.0	x	12.0	1.3		
		215.218	LT	1.0	x	12.0	1.3		
		215.410	RT	1.0	x	12.0	1.3		
		215.410	LT	1.0	x	12.0	1.3		
		215.761	RT	1.0	x	12.0	1.3		
		215.761	LT	1.0	x	12.0	1.3		
		216.088	LT	1.0	x	12.0	1.3		
		216.156	RT	1.0	x	12.0	1.3		
		216.160	LT	1.0	x	12.0	1.3		
		216.252	RT	1.0	x	12.0	1.3		
		216.385	LT	1.0	x	12.0	1.3		
		216.572	RT	1.0	x	12.0	1.3		
		216.584	RT	1.0	x	12.0	1.3		
		217.087	RT	1.0	x	12.0	1.3		
		217.117	RT	1.0	x	12.0	1.3		
		217.342	RT	1.0	x	12.0	1.3		
		217.342	LT	1.0	x	12.0	1.3		
		217.429	RT	1.0	x	12.0	1.3		
		217.436	RT	1.0	x	12.0	1.3		
		217.436	LT	1.0	x	12.0	1.3		
		217.455	RT	1.0	x	12.0	1.3		
		217.471	RT	1.0	x	12.0	1.3		
		217.825	RT	1.0	x	12.0	1.3		
		217.879	LT	1.0	x	12.0	1.3		
		218.938	LT	1.0	x	12.0	1.3		
		219.648	LT	1.0	x	12.0	1.3		
		219.709	RT	1.0	x	12.0	1.3		
		219.709	LT	1.0	x	12.0	1.3		
		219.803	RT	1.0	x	12.0	1.3		
		219.810	RT	1.0	x	12.0	1.3		
		219.825	RT	1.0	x	12.0	1.3		
		219.969	RT	1.0	x	12.0	1.3		
		220.430	RT	1.0	x	12.0	1.3		
		220.537	LT	1.0	x	12.0	1.3		
End Division 1 - Rural									
Totals Division 1 Rural							270.4		
Totals Division 2 - Urban							2.6		
Grand Totals							273.0		

TABULATION OF MICROSURFACING COURSES

Location									Course			Measurments				Pay Quantities			
	Milepost		Station		Lanes														
Road ID	From	To	From	To	EB	WB	--	--	1st	2nd	REMARKS	Length Ft.	Width Ft.	Sq. Yds.	Lanes	Miles	Tons	Gallons	REMARKS
Begin Full 28' Width, 1st Course-Scratch																			
Begin Division 1 - Rural																			
IA 2			1643+25.00	2083+00.00	X	X			X		Scratch Course	43975.0	4.0	39088.89	2	8.33	363.527	10063.03	
Gap for City of Pulaski																			
IA 2			2113+40.90	2377+72.00	X	X			X		Scratch Course	26431.1	4.0	23494.31	2	5.01	218.497	6048.36	
Stop Division 1 - Rural																			
Begin Division 2 - Urban																			
IA 2			2377+72.00	2381+73.00	X	X			X		Scratch Course	401.0	4.0	356.44	2	0.08	3.315	91.76	
Equation: 2381+73.00 (BK) = 3+97.75 (AH)																			
IA 2			3+97.75	83+22.00	X	X			X		Scratch Course	7924.3	4.0	7043.78	2	1.50	65.507	1813.34	
End Division 2 - Urban																			
Resume Division 1 - Rural																			
IA 2			83+22.00	356+00.00	X	X			X		Scratch Course	27278.0	4.0	24247.11	2	5.17	225.498	6242.16	
End Division 1 - Rural																			
End Full 28' Width, 1st Course-Scratch																			
Begin Full Width, Finish Course, 28' Top																			28' overall surface width including both lanes
Begin Division 1 - Rural																			
IA 2			1643+25.00	2083+00.00	X	X				X	Finish Course	43975.0	14.0	136811.11	2	8.33	1142.373	31622.78	
Gap for City of Pulaski																			
IA 2			2113+40.90	2377+72.00	X	X				X	Finish Course	26431.1	14.0	82230.09	2	5.01	686.621	19006.81	
Stop Division 1 - Rural																			
Begin Division 2 - Urban																			
IA 2			2377+72.00	2381+73.00	X	X				X	Finish Course	401.0	14.0	1247.56	2	0.08	10.417	288.36	
Equation: 2381+73.00 (BK) = 3+97.75 (AH)																			
IA 2			3+97.75	83+22.00	X	X				X	Finish Course	7924.3	14.0	24653.22	2	1.50	205.854	5698.38	
End Division 2 - Urban																			
Resume Division 1 - Rural																			
IA 2			83+22.00	356+00.00	X	X				X	Finish Course	27278.0	14.0	84864.89	2	5.17	708.622	19615.83	
End Division 1 - Rural																			
End Full Width, Finish Course																			
Division 1 - Rural Totals														390736.40		37.02	3345.138	92598.97	
Division 2 - Urban Totals														33301.00		3.16	285.093	7891.84	
Grand Totals														424037.40		40.18	3630.231	100490.81	

MILLED RUMBLE STRIPS

See PV-12 and PV-13.

* Calculated at 18" width for Shoulder.

Location								Effective Shoulder Width			
Road Identification	Station to Station		Shoulder Pavement Type	Rumble Strip Type (Centerline, Rt or Lt Shoulder)	Length PCC	Length HMA	Fog Seal* (Milled Rumble Strip) Shoulder	PCC Paved	HMA Paved	Granular\ Earth	Remarks
					STA	STA	GAL	FT	FT	FT	
Division 1 - Rural											
IA 2	1649+96.00	2083+00.00	HMA	Centerline		433.04					
Gap for City of Pulaski											
IA 2	2113+40.90	2377+72.00	HMA	Centerline		264.31					
Gap for City of Milton											
IA 2	83+22.00	366+85.00	HMA	Centerline		283.63					
Bridge Maint. # 8918.7S002, FHWA 50210											
IA 2	370+45.00	667+52.50	HMA	Centerline		297.08					
Bridge Maint. # 8924.4S002, FHWA 50230											
IA 2	670+47.50	693+52.70	HMA	Centerline		23.05					
Equation:	693+52.70	(BK)									
	1723+00.00	(AH)									
IA 2	1723+00.00	1728+60.00	HMA	Centerline		5.60					
IA 2	1649+96.00	2083+00.00	HMA	Left Shoulder		433.04	469.2		2.0	6.0	
Gap for City of Pulaski											
IA 2	2113+40.90	2377+72.00	HMA	Left Shoulder		264.31	286.4		2.0	6.0	
Gap for City of Milton											
IA 2	83+22.00	356+00.00	HMA	Left Shoulder		272.78	295.6		2.0	6.0	
IA 2	1649+96.00	2083+00.00	HMA	Right Shoulder		433.04	469.2		2.0	6.0	
Gap for City of Pulaski											
IA 2	2113+40.90	2377+72.00	HMA	Right Shoulder		264.31	286.4		2.0	6.0	
Gap for City of Milton											
IA 2	83+22.00	356+00.00	HMA	Right Shoulder		272.78	295.6		2.0	6.0	
				Totals		**HMA**	**Fog Seal**				
				HMA Shoulders		**1940.26**	**2102.4**				
				HMA Centerlines		**1306.71**					

PAVEMENT MARKING LINE TYPES

See PM-110

*BCY4 - Place on the same side of the roadway to match existing markings near the project.
**NPY4 - For estimating purposes only. No Passing Zone Lines will be located in the field.
***MNY4 - Factor of 1.00 as value includes number of 4-inch passes to cover median nose area.

BCY4: Broken Centerline (Yellow) @ 0.25
DCY4: Double Centerline (Yellow) @ 2.00
NPY4: No Passing Zone Line (Yellow) @ 1.25
BLW4: Broken Lane Line (White) @ 0.25
ELW4: Edge Line Right (White) @ 1.00
ELY4: Edge Line Left (Yellow) @ 1.00
CHY8: Channelizing Line (Yellow) @ 2.00
SLW2: Stop Line (White) @ 6.00

Location								Length by Line Type (Unfactored)															Remarks
Road ID	Station to Station		Dir. of Travel	Marking Type	Side			BCY4*	DCY4	NPY4**	BLW4	ELW4	ELY4	CHY8	SLW2								
					L	C	R	STA	STA	STA	STA	STA	STA	STA	STA	STA	STA	STA	STA	STA	STA	STA	
Begin Division 1 - Rural																							
Permanent Pavement Markings																							
IA 2	1641+48.10	2083+00.00	BOTH	Waterborne/Solvent Paint	X	X	X	375.89	3.06	55.29		883.04		17.80									
Gap for City of Pulaski																							
IA 2	2113+40.90	2377+72.00	BOTH	Waterborne/Solvent Paint	X	X	X	264.31				528.62											
IA 2	83+22.00	693+52.70	BOTH	Waterborne/Solvent Paint	X	X	X	454.03	24.41	131.87		1220.61											
Equation: 693+52.7 (BK) = 1723+00 (AH)																							
IA 2	1723+00.00	1728+60.00	BOTH	Waterborne/Solvent Paint	X	X	X		5.60			11.20											
Permanent Factored Subtotals								273.56	66.14	233.95		2643.47		35.60		Division 1 - Pavement Markings Factored Bid Quantity Total						3252.72	
Temporary Tape Markings				Wet Retroreflective Removable Tape											0.96								See Note 1
Temporary Tape Markings Factored Subtotals															5.76	Division 1 - Temporary Factored Bid Quantity Total						5.76	
Removal of Tape				Removal of Removable Tape											0.96								See Note 1
Removal of Tape Factored Subtotals															5.76	Division 1 - Temporary Factored Bid Quantity Total						5.76	
End Division 1 - Rural																							
Begin Division 2 - Urban																							
Permanent Pavement Markings																							
IA 2	2377+72.00	2381+73.00	BOTH	Waterborne/Solvent Paint	X	X	X	4.01				8.02											
Equation: 2381+73.00 (BK) = 3+97.75 (AH)																							
IA 2	3+97.75	83+22.00	BOTH	Waterborne/Solvent Paint	X	X	X	44.83	9.59	24.82		158.49											
Permanent Factored Subtotals								12.21	19.18	31.03		166.51				Division 2 - Pavement Markings Factored Bid Quantity Total						228.92	
End Division 2 - Urban																							
																Division 1 - Rural Pavement Markings Bid Quantity Total						3252.72	
																Division 1 - Rural Temporary Tape Bid Quantity Total						5.76	
																Division 1 - Rural Removal of Tape Bid Quantity Total						5.76	
																Division 2 - Urban Pavement Markings Bid Quantity Total						228.92	
																		Pavement Markings Bid Quantity Total				3481.64	

Note 1: For Temporary Lane Closures With Signals, See TC-215 and Tab 108-28.
Temporary Markings are estimated at 16 setups of TC-215.

108-23A
08-01-08

TRAFFIC CONTROL PLAN

1. Through traffic will be maintained at all times.

2. No Calcium allowed for Finish Patches along east end of the project (Approx. 33,700 ft. long).
   Tab 108-28 includes 4 signal systems, 1 system for each Road Standard TC-215 setup.
   TC-215 may be implemented in staggered Not Consecutive 4,300, Non Adjacent segments with up to 4 TC-215 setups at a time, in 1 lane of construction.
   See Tabs 108-28, 108-22 and 102-6C Finish.

108-26A
08-01-08

STAGING NOTES

Suggested general sequence of work:

1. Patching
2. Scarify bumps, See Tab "PV-MILL"
3. Microsurfacing and HMA resurfacing with milling
4. Granular Shoulders
5. Milled centerline/shoulder rumble strips
6. Painted Pavement Markings

108-25
10-21-14

511 TRAVEL RESTRICTIONS

Route	Direction	County	Location Description	Feature Crossed	Object Type	Maint. Bridge No., Structure ID, or FHWA No.	Type of Restriction	Existing Measurement	Construction Measurement	Construction Measurement as Signed	Projected As Built Measurement	Remarks
IA 2	EB/WB	Davis/Van Buren	Alternating lane closures within the project limits due to pavement patching, microsurfacing and HMA overlay operations.	No width restrictions expected.								

111-01
04-17-12

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
BRFN-002-9(40)--39-89	Bridge Deck Replacement
Maint. # 8918.7S002	
Bridge over Fox River	