

# CONTRACT

FA96 (Form 650019)  
05-13

Letting Date: March 17, 2015 Contract ID: 93-0141-011 Bid Order No.: 165  
County: WAYNE Project Engineer: CHARITON RCE  
Cost Center: 611000 Object Code: 890 DBE Commitment: \$0.00  
Contract Work Type: HMA RESURFC/COLD IN-PLC RECYCL

145 002 4000000

This agreement made and entered by and between the IOWA DEPARTMENT OF TRANSPORTATION,  
CONTRACTING AUTHORITY, AND  
NORRIS ASPHALT PAVING CO., LC OF OTTUMWA, IA, (NO081), CONTRACTOR

It is agreed that the notice and instructions to bidders, the proposal filed by the Contractor, the specifications, the plan, if any, for project(s) listed below, together with Contractor's performance bond, are made a part hereof and together with this instrument constitute the contract. This contract contains all of the terms and conditions agreed upon by the parties hereto. A true copy of said plan is now on file in the office of the Contracting Authority under date of 03/12/2015.

-----

PROJECT: STPN-014-1(11)--2J-93	COUNTY: WAYNE
WORK TYPE: HMA RESURFC/COLD IN-PLC RECYCL	ACCOUNTING ID: 32437
ROUTE: IOWA 14	LENGTH (MILES): 17.11
LOCATION: FROM 0.42 MILES N. OF NCL OF CORYDON N. TO US 34	
NON-FEDERAL AID - PREDETERMINED WAGES ARE NOT IN EFFECT	

-----

The specifications consist of the Standard Specifications for Highway and Bridge Construction, Series 2012 of the Iowa Department of Transportation plus the following Supplemental Specifications, Special Provisions, and addendums: GS-12005, SS-12010, SS-12011, ADDENDUMS: 17MAR165.A01, 17MAR165.A02

Contractor, for and in considerations of \$8,492,477.59 payable as set forth in the specifications constituting a part of this contract, agrees to construct various items of work and/or provide various materials or supplies in accordance with the plans and specifications therefore, and in the locations designated in the Notice to Bidders.

Contractor certifies by signature on this contract, under pain of penalties for false certification, that the Contractor has complied with Iowa Code Section 452A.17(8) as amended, if applicable, and Iowa Code Section 91C.5 (Public Registration Number), if applicable.

In consideration of the foregoing, Contracting authority hereby agrees to pay the Contractor promptly and according to the requirements of the specifications the amounts set forth, subject to the conditions as set forth in the specifications.

It is further understood and agreed that the above work shall also be commenced or completed in accordance with Page 1B of this Contract and assigned Proposal Notes.

To accomplish the purpose herein expressed, the Contracting authority and Contractor have signed this and one other identical instrument.

For Federal-Aid contracts the Contractor certifies that each subcontract is evidenced in writing and that it contains all pertinent provisions and requirements of the contract.

By Stacy J. Bernard  
Contractor

Contractor (if joint venture)

By Wayne W. Hussey  
Contracting Authority

**APR 06 2015**

Contract Award Date

Iowa DOT Concurrence \_\_\_\_\_

Letting Date: March 17, 2015 Contract ID: 93-0141-011

Bid Order No. : 165

It is further understood and agreed that the above work shall be commenced or completed in accordance with the following schedule:

SITE NUMBER	CONTRACT PERIOD /SITE DESCRIPTION	LIQUIDATED DAMAGES
	CONTRACT LATE START DATE 05/04/2015 105 WORKING DAYS	\$2,000.00

CONTRACT NOTES

---

CONTRACT SCHEDULE OF PRICES

\*\*\*\*\*

Vendor No.: NO081 Bid Order No.: 165  
 Contract ID No.: 93-0141-011 Letting Date: March 17, 2015  
 Primary Work Type: HMA RESURFACING/COLD IN-PLACE RECYCLING 10:00 A.M.  
 Primary County: WAYNE

Line No	Item Number Item Description	Item Quantity and Unit	Unit Price Dollars   Cts	Bid Amount Dollars  Cts
SECTION 0001 ROADWAY ITEMS				
0010	2101-0850002 CLEARING AND GRUBBING	511.000 UNIT	25.00000	12,775.00
0020	2102-2625000 EMBANKMENT-IN-PLACE	512.000 CY	20.00000	10,240.00
0030	2102-2713090 EXCAVATION, CLASS 13, WASTE	816.000 CY	43.41000	35,422.56
0040	2105-8425005 TOPSOIL, FURNISH AND SPREAD	80.000 CY	50.00000	4,000.00
0050	2121-7425020 GRANULAR SHOULDERS, TYPE B	46,313.800 TON	19.50000	903,119.10
0060	2122-5500060 PAVED SHOULDER, HOT MIX ASPHALT MIXTURE, 6 IN.	2,254.600 SY	39.42000	88,876.33
0070	2122-5500080 PAVED SHOULDER, HOT MIX ASPHALT MIXTURE, 8 IN.	2,500.800 SY	47.22000	118,087.78
0080	2212-0475095 CLEANING AND PREPARATION OF BASE	17.200 MILE	500.00000	8,600.00
0090	2212-5070310 PATCHES, FULL-DEPTH REPAIR	554.600 SY	145.00000	80,417.00
0100	2212-5070330 PATCHES BY COUNT (REPAIR)	75.000 EACH	70.00000	5,250.00

CONTRACT SCHEDULE OF PRICES

\*\*\*\*\*

Vendor No.: NO081 Bid Order No.: 165  
 Contract ID No.: 93-0141-011 Letting Date: March 17, 2015  
 Primary Work Type: HMA RESURFACING/COLD IN-PLACE RECYCLING 10:00 A.M.  
 Primary County: WAYNE

Line No	Item Number Item Description	Item Quantity and Unit	Unit Price		Bid Amount	
			Dollars	Cts	Dollars	Cts
0110	2212-5075001 HOT MIX ASPHALT SURFACE PATCHES	75.000 TON	100.00000		7,500.00	
0120	2213-2713300 EXCAVATION, CLASS 13, FOR WIDENING	8,685.800 CY	5.70000		49,509.06	
0130	2213-6745500 REMOVAL OF CURB	0.840 STA	550.00000		462.00	
0140	2213-8200000 BASE WIDENING, HOT MIX ASPHALT MIXTURE	17,890.100 TON	38.42000		687,337.64	
0150	2214-5145150 PAVEMENT SCARIFICATION	10,142.300 SY	1.64000		16,633.37	
0160	2303-0001000 HOT MIX ASPHALT MIXTURE, WEDGE, LEVELING OR STRENGTHENING COURSE	45.000 TON	58.26000		2,621.70	
0170	2303-0032500 HOT MIX ASPHALT MIXTURE (1,000,000 ESAL), INTERMEDIATE COURSE, 1/2 IN. MIX	34,761.900 TON	35.52000		1,234,742.69	
0180	2303-0033504 HOT MIX ASPHALT MIXTURE (1,000,000 ESAL), SURFACE COURSE, 1/2 IN. MIX, FRICTION L-4	27,953.100 TON	36.05000		1,007,709.26	
0190	2303-0246422 ASPHALT BINDER, PG 64-22	4,869.100 TON	491.00000		2,390,728.10	
0200	2303-0247028 ASPHALT BINDER, PG 70-28	73.500 TON	657.00000		48,289.50	

CONTRACT SCHEDULE OF PRICES

\*\*\*\*\*

Vendor No.: NO081 Bid Order No.: 165  
 Contract ID No.: 93-0141-011 Letting Date: March 17, 2015  
 Primary Work Type: HMA RESURFACING/COLD IN-PLACE RECYCLING 10:00 A.M.  
 Primary County: WAYNE

Line No	Item Number Item Description	Item Quantity and Unit	Unit Price		Bid Amount	
			Dollars	Cts	Dollars	Cts
0210	2303-6911000 HOT MIX ASPHALT PAVEMENT SAMPLES	LUMP	LUMP			6,125.00
0220	2315-8275025 SURFACING, DRIVEWAY, CLASS A CRUSHED STONE	5.000 TON	50.00000			250.00
0230	2318-1001100 COLD IN-PLACE RECYCLED ASPHALT PAVEMENT	220,734.900 SY	1.51000			333,309.70
0240	2318-1001220 ASPHALT STABILIZING AGENT (FOAMED ASPHALT)	693.700 TON	528.60000			366,689.82
0250	2402-2720100 EXCAVATION, CLASS 20, FOR ROADWAY PIPE CULVERT	124.000 CY	20.00000			2,480.00
0260	2416-0100030 APRONS, CONCRETE, 30 IN. DIA.	1.000 EACH	2,950.00000			2,950.00
0270	2416-0101036 REMOVE AND REINSTALL CONCRETE PIPE APRONS LESS THAN OR EQUAL TO 36 IN.	3.000 EACH	800.00000			2,400.00
0280	2417-1461036 REMOVE AND REINSTALL CORRUGATED PIPE CULVERT LESS THAN OR EQUAL TO 36 IN.	48.000 LF	15.00000			720.00
0290	2422-0360024 APRONS, UNCLASSIFIED, 24 IN. DIA.	4.000 EACH	330.00000			1,320.00
0300	2422-1722024 CULVERT, UNCLASSIFIED ENTRANCE PIPE, 24 IN. DIA.	170.000 LF	35.00000			5,950.00
0310	2435-0600010 MANHOLE ADJUSTMENT, MINOR	4.000 EACH	1,185.00000			4,740.00

CONTRACT SCHEDULE OF PRICES

\*\*\*\*\*

Vendor No.: NO081 Bid Order No.: 165  
 Contract ID No.: 93-0141-011 Letting Date: March 17, 2015  
 Primary Work Type: HMA RESURFACING/COLD IN-PLACE RECYCLING 10:00 A.M.  
 Primary County: WAYNE

Line No	Item Number Item Description	Item Quantity and Unit	Unit Price		Bid Amount	
			Dollars	Cts	Dollars	Cts
0320	2502-8212034 SUBDRAIN, LONGITUDINAL, (SHOULDER) 4 IN. DIA.	57,160.000 LF	6.85000		391,546.00	
0330	2502-8220196 SUBDRAIN OUTLET, RF-19E	260.000 EACH	175.00000		45,500.00	
0340	2505-4008120 REMOVAL OF STEEL BEAM GUARDRAIL	1,019.000 LF	8.00000		8,152.00	
0350	2505-4008300 STEEL BEAM GUARDRAIL	412.500 LF	18.00000		7,425.00	
0360	2505-4008400 STEEL BEAM GUARDRAIL BARRIER TRANSITION SECTION	12.000 EACH	1,500.00000		18,000.00	
0370	2505-4021010 STEEL BEAM GUARDRAIL END ANCHOR, BOLTED	12.000 EACH	200.00000		2,400.00	
0380	2505-4021700 STEEL BEAM GUARDRAIL END TERMINAL	12.000 EACH	1,900.00000		22,800.00	
0390	2511-6745900 REMOVAL OF SIDEWALK	71.900 SY	13.00000		934.70	
0400	2511-7526004 SIDEWALK, P. C. CONCRETE, 4 IN.	66.100 SY	107.00000		7,072.70	
0410	2511-7526006 SIDEWALK, P. C. CONCRETE, 6 IN.	20.000 SY	112.00000		2,240.00	
0420	2511-7528101 DETECTABLE WARNINGS	60.000 SF	40.00000		2,400.00	

CONTRACT SCHEDULE OF PRICES

\*\*\*\*\*

Vendor No.: NO081 Bid Order No.: 165  
 Contract ID No.: 93-0141-011 Letting Date: March 17, 2015  
 Primary Work Type: HMA RESURFACING/COLD IN-PLACE RECYCLING 10:00 A.M.  
 Primary County: WAYNE

Line No	Item Number Item Description	Item Quantity and Unit	Unit Price		Bid Amount	
			Dollars	Cts	Dollars	Cts
0430	2512-1725206 CURB AND GUTTER, P.C. CONCRETE, 2. 10 FT.	84.400 LF	57.00000		4,810.80	
0440	2527-9263109 PAINTED PAVEMENT MARKING, WATERBORNE OR SOLVENT-BASED	7,903.900 STA	7.15000		56,512.89	
0450	2528-8445110 TRAFFIC CONTROL	LUMP	LUMP		8,800.00	
0460	2528-8445113 FLAGGERS	150.000 EACH	345.00000		51,750.00	
0470	2528-8445115 PILOT CARS	45.000 EACH	515.00000		23,175.00	
0480	2533-4980005 MOBILIZATION	LUMP	LUMP		155,645.00	
0490	2548-0000100 MILLED SHOULDER RUMBLE STRIPS, HMA SURFACE	1,697.000 STA	6.25000		10,606.25	
0500	2548-0000110 ASPHALT EMULSION FOR FOG SEAL (SHOULDER RUMBLE STRIPS)	1,838.400 GAL	4.60000		8,456.64	
0510	2548-0000200 MILLED SHOULDER RUMBLE STRIPS, PCC SURFACE	5.800 STA	30.00000		174.00	
0520	2548-0000310 MILLED CENTERLINE RUMBLE STRIPS, HMA SURFACE	853.000 STA	12.00000		10,236.00	
0530	2548-0000320 MILLED CENTERLINE RUMBLE STRIPS, PCC SURFACE	14.700 STA	30.00000		441.00	

CONTRACT SCHEDULE OF PRICES

\*\*\*\*\*

Vendor No.: NO081 Bid Order No.: 165  
 Contract ID No.: 93-0141-011 Letting Date: March 17, 2015  
 Primary Work Type: HMA RESURFACING/COLD IN-PLACE RECYCLING 10:00 A.M.  
 Primary County: WAYNE

Line No	Item Number Item Description	Item Quantity and Unit	Unit Price		Bid Amount	
			Dollars	Cts	Dollars	Cts
0540	2555-0000010 DELIVER AND STOCKPILE SALVAGED MATERIALS	LUMP	LUMP			62,575.00
0550	2601-2639010 SODDING	12.400   SQ	160.00000			1,984.00
0560	2601-2643300 MOBILIZATION FOR WATERING	1.000   EACH	350.00000			350.00
0570	2601-3000201 HERBICIDE APPLICATION, CUT STUMP	63.000   EACH	30.00000			1,890.00
0580	2602-0000020 SILT FENCE	2,350.000   LF	2.20000			5,170.00
0590	2602-0000050 SILT BASINS	10.000   EACH	150.00000			1,500.00
0600	2602-0000101 MAINTENANCE OF SILT FENCE OR SILT FENCE FOR DITCH CHECK	235.000   LF	5.00000			1,175.00
0610	2602-0010010 MOBILIZATIONS, EROSION CONTROL	1.000   EACH	500.00000			500.00
0620	2602-0010020 MOBILIZATIONS, EMERGENCY EROSION CONTROL	1.000   EACH	1,000.00000			1,000.00
SECTION 0002 PAYMENT ADJUSTMENT INCENTIVE ITEMS						
0630	2303-7000610 PAYMENT ADJUSTMENT INCENTIVE/DISINCENTIVE FOR HMA MIXTURE LABORATORY VOIDS (FORMULA - BY PAY FACTOR)	31,000.000   EACH	1.00000			31,000.00

CONTRACT SCHEDULE OF PRICES

\*\*\*\*\*

Vendor No.: NO081 Bid Order No.: 165  
 Contract ID No.: 93-0141-011 Letting Date: March 17, 2015  
 Primary Work Type: HMA RESURFACING/COLD IN-PLACE RECYCLING 10:00 A.M.  
 Primary County: WAYNE

Line No	Item Number Item Description	Item Quantity and Unit	Unit Price		Bid Amount	
			Dollars	Cts	Dollars	Cts
0640	2303-7000620 PAYMENT ADJUSTMENT INCENTIVE/DISINCENTIVE FOR HMA MIXTURE FIELD VOIDS (FORMULA - BY PAY FACTOR)	 31,000.000  EACH	 1.00000		 31,000.00	
0650	2317-7000120 PAYMENT ADJUSTMENT INCENTIVE/DISINCENTIVE FOR HMA PAVEMENT SMOOTHNESS (BY SCHEDULE)	 76,000.000  EACH	 1.00000		 76,000.00	
TOTAL BID					8,492,477.59	

=====

# A d d e n d u m

Iowa Department of Transportation  
Office of Contracts

Date of Letting: March 17, 2015  
Date of Addendum: February 26, 2015

B.O.	Proposal ID	Proposal Work Type	County	Project Number	Addendum
165	93-0141-011	HMA RESURFACING/COLD IN-PLACE RECYCLING	WAYNE	STPN-014-1(11)--2J-93	17MAR165.A01

Make the following changes to the PROPOSAL SCHEDULE OF PRICES:

Change Proposal Line No.0230 2318-1001100 COLD IN-PLACE RECYCLED ASPHALT  
PAVEMENT:

From: 630,671.300 SY

To: 220,734.900 SY

Change Proposal Line No.0240 2318-1001220 ASPHALT STABILIZING AGENT (FOAMED  
ASPHALT):

From: 277.500 TON

To: 693.700 TON

If the above changes are not made, they will be made as shown here.

Add the following to SHEET C.2 ESTIMATE REFERENCE INFORMATION:

Item 12, 2213-2713300, EXCAVATION, CLASS 13, FOR WIDENING, CY Div. 2: ADD

NOTE:

The quantity includes 60 CY for the removal of existing HMA edge rut material at the following  
4 locations:

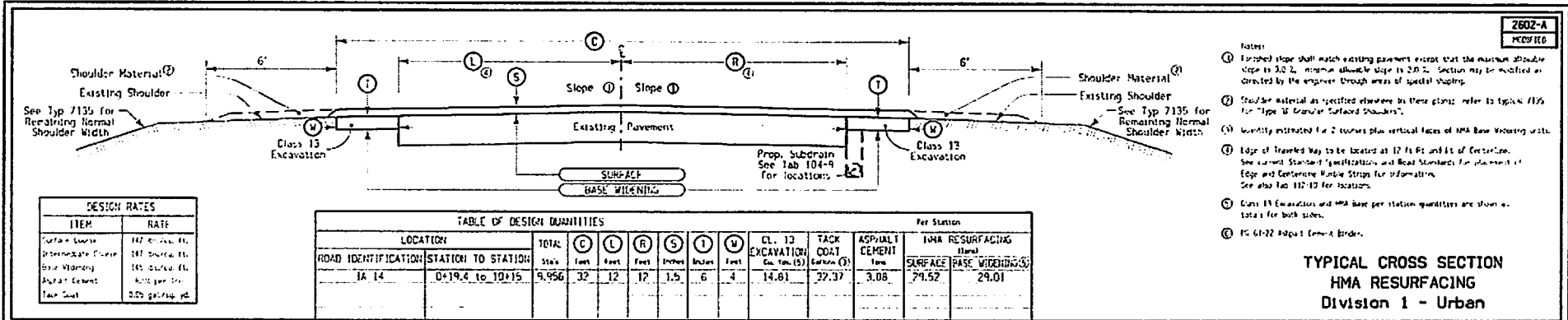
MP 5.38 to 5.95 Rt. 1 ft. wide

MP 5.32 to 5.95 Lt. 1.5 ft. wide

MP 9.72 to 9.95 Rt., 1.5 ft. wide

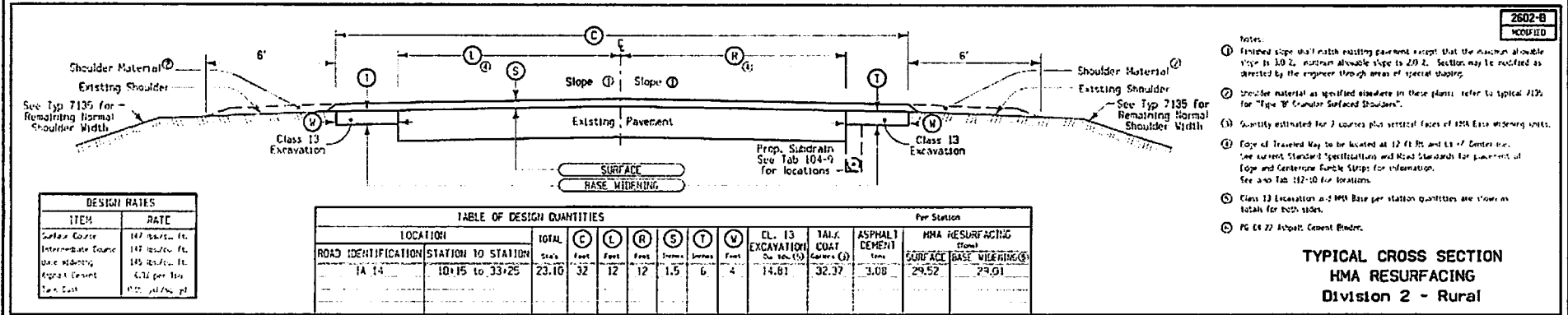
MP 11.01 to 11.18 Rt., 2 ft. wide

Replace SHEETS B.1 and B.2 with the attached SHEETS B.1 and B.2



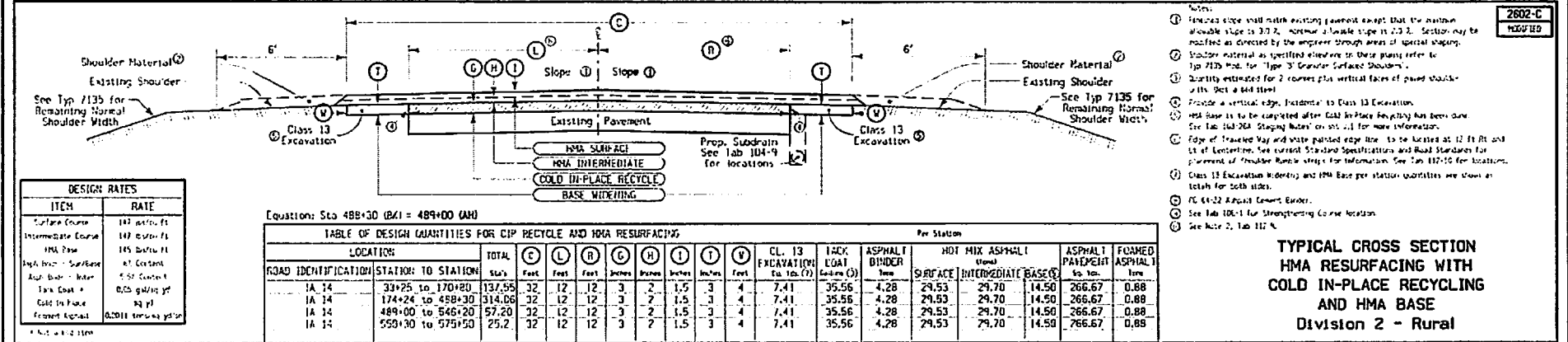
- Notes:
- Finished slope shall match existing pavement except that the maximum allowable slope is 3:1, minimum allowable slope is 2:1. Section may be modified as directed by the engineer through areas of special shaping.
  - Shoulder material as specified elsewhere in these plans refer to typical 7135 for "Type B" Granular Surfaced Shoulders.
  - Quantity estimated for 2 courses plus vertical faces of HMA Base widening with 1/2" x 1/2" x 1/2" steel.
  - Edge of Traveled Way to be located at 12 ft. RT and 12 ft. of Centerline. See current Standard Specifications and Road Standards for placement of Edge and Centerline Marking Strips for information. See also Tab 112-10 for locations.
  - Class 13 Excavation and HMA Base per station quantities are shown as totals for both sides.
  - PG 61-22 Asphalt Cement Binder.

**TYPICAL CROSS SECTION HMA RESURFACING Division 1 - Urban**



- Notes:
- Finished slope shall match existing pavement except that the maximum allowable slope is 3:1, minimum allowable slope is 2:1. Section may be modified as directed by the engineer through areas of special shaping.
  - Shoulder material as specified elsewhere in these plans refer to typical 7135 for "Type B" Granular Surfaced Shoulders.
  - Quantity estimated for 2 courses plus vertical faces of HMA Base widening with 1/2" x 1/2" x 1/2" steel.
  - Edge of Traveled Way to be located at 12 ft. RT and 12 ft. of Centerline. See current Standard Specifications and Road Standards for placement of Edge and Centerline Marking Strips for information. See also Tab 112-10 for locations.
  - Class 13 Excavation and HMA Base per station quantities are shown as totals for both sides.
  - PG 61-22 Asphalt Cement Binder.

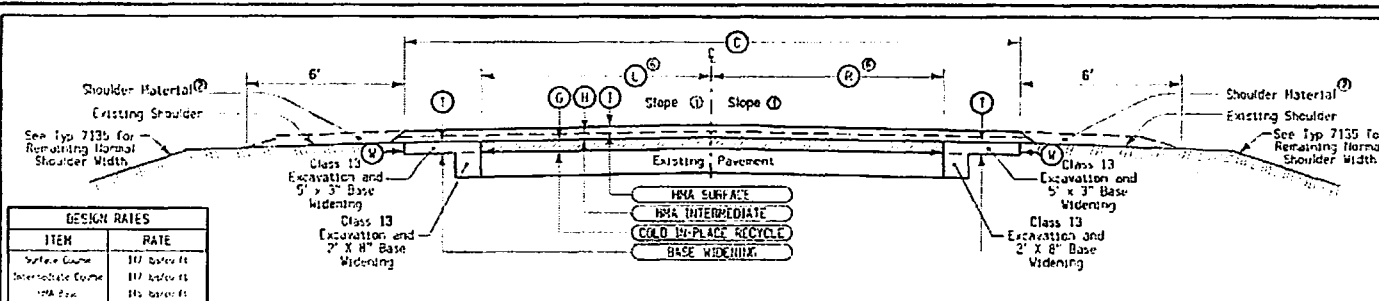
**TYPICAL CROSS SECTION HMA RESURFACING Division 2 - Rural**



- Notes:
- Finished slope shall match existing pavement except that the maximum allowable slope is 3:1, minimum allowable slope is 2:1. Section may be modified as directed by the engineer through areas of special shaping.
  - Shoulder material as specified elsewhere in these plans refer to typical 7135 for "Type B" Granular Surfaced Shoulders.
  - Quantity estimated for 2 courses plus vertical faces of paved shoulder with 1/2" x 1/2" x 1/2" steel.
  - Provide a vertical edge, incidental to Class 13 Excavation.
  - HMA Base is to be completed after Cold In-Place Recycling has been done. See Tab 104-264 "Staging Notes" on site plan for more information.
  - Edge of Traveled Way and white painted edge line to be located at 12 ft. RT and 12 ft. of Centerline. See current Standard Specifications and Road Standards for placement of Regular Marking Strips for information. See Tab 112-10 for locations.
  - Class 13 Excavation Widening and HMA Base per station quantities are shown as totals for both sides.
  - PG 61-22 Asphalt Cement Binder.
  - See Tab 106-1 for Strengthening Course location.
  - See Note 2, Tab 112-10.

**TYPICAL CROSS SECTION HMA RESURFACING WITH COLD IN-PLACE RECYCLING AND HMA BASE Division 2 - Rural**

2602-D  
MODIFIED



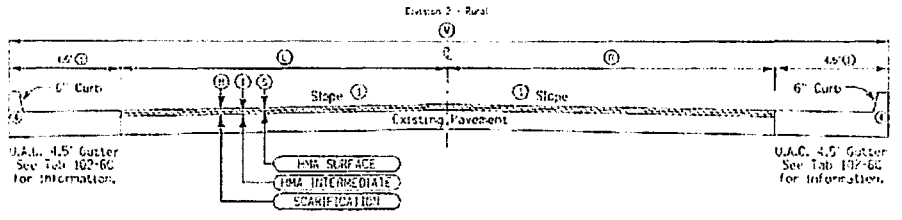
DESIGN RATES	
ITEM	RATE
Surface Course	117 sq/ft/ft
Intermediate Course	117 sq/ft/ft
HMA Base	116 sq/ft/ft
High Speed Surface	47 Cent/ft
Asph Binder	5.52 Cent/ft
Base Coat	0.55 gal/ft/ft
Cold In Place Recycle	14 ft
Foamed Asphalt	0.2011 gal/ft/ft

TABLE OF DESIGN QUANTITIES FOR CIP RECYCLE AND HMA RESURFACING																		
LOCATION		TOTAL	C	L	R	G	H	I	S	V	CL. 13 EXCAVATION (Sq. Yds. (5))	TACK COAT (Gals. (2))	ASPHALT BINDER (Tons)	HOT MIX ASPHALT (Surf. Interm. Base) (Tons)	ASPHALT PAYMENT (Sq. Yds.)	FOAMED ASPHALT (Tons)		
ROAD IDENTIFICATION	STATION TO STATION	Sq. Yds.	Feet	Feet	Feet	Inches	Inches	Inches	Inches	Feet								
IA 14	575+90 to 831+45	255.95	32	11	11	3	2	1.5	3	5	15.44	52.94	5.97	29.52	39.72	30.23	244.44	0.81
IA 14	846+10 to 867+60	21.5	32	11	11	3	2	1.5	3	5	15.44	52.94	5.97	29.52	39.72	30.23	244.44	0.81

- Notes:
- Finished slope shall match existing pavement, except that the maximum allowable slope is 3:1, minimum allowable slope is 2:1. Section may be modified as directed by the engineer through areas of special mapping.
  - Shoulder material as specified elsewhere in these plans refer to Typ 1125 Mat for "Type B" Granular Surface Shoulder.
  - Quantity estimated for 2 courses plus vertical faces of lower shoulder width. Not a bid item.
  - Provide a vertical edge, incidental to Class 13 Excavation.
  - Hot base is to be completed after cold surface finishing has been done.
  - See Tab 102-29 "Staging Mats" on 01-21 for more information.
  - Edge of finished mix and white painted edge line to be located at 12 ft 41 and 11 ft 01 centerline. See current Standard Specifications and Road Standards for placement of Shoulder Kurie strip for information. See Tab 102-19 for location.
  - Class 13 Excavation Widening and HMA Base per station quantities are shown as totals for both sides.
  - Calculation for HMA Base includes 2' x 8' Base Widening that and 5' x 3' Base Widening. Damage calculated for both sides.
  - To 61 22 Asphalt Cement Binder.
  - See Note 2, Tab 112-4.

**TYPICAL CROSS SECTION  
HMA RESURFACING WITH  
COLD IN-PLACE RECYCLING AND HMA BASE  
Division 2 - Rural**

2209-A  
MODIFIED



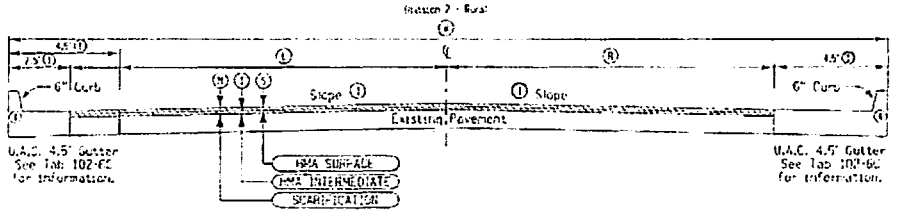
DESIGN RATES	
ITEM	RATE
Surface Course	117 sq/ft/ft
Intermediate Course	117 sq/ft/ft
Tack Coat	0.55 gal/ft/ft
Asph	0.1

TABLE OF DESIGN QUANTITIES													
LOCATION		TOTAL	V	L	R	H	I	S	TACK COAT (Gals. (2))	ASPHALT CEMENT (Tons)	HMA RESURFACING (Surface Interm. Scarification) (Tons)		
ROAD IDENTIFICATION	STATION TO STATION	Sq. Yds.	Feet	Feet	Feet	Inches	Inches	Inches					
IA 14	867+60 to 877+60	10.30	35	13	13	3	1.5	1.5	37.35	0.67	23.69	23.69	288.69

- Notes:
- Finished slope shall match existing pavement, except that the maximum allowable slope is 3:1, minimum allowable slope is 2:1. Section may be modified as directed by the engineer through areas of special mapping.
  - Estimated for 2 courses. Not a bid item.
  - Scarification will be approximately a minimum of 1" and the gutter line the intent of the scarification operation is to remove 2" of the existing 1" HMA pavement while preserving the underlying 1" HMA pavement surface.
  - Scarification will be approximately a minimum of 1" and the gutter line the intent of the scarification operation is to remove the existing HMA and approximately 1" HMA gutter line pavement section. This operation will create a vertical face adjacent to the curb along the gutter line for a HMA surface finish. Special staining as follows included.
  - To 61 22 Asphalt Cement Binder.

**TYPICAL CROSS SECTION  
HMA RESURFACING WITH MILLING  
Division 2 - Rural**

2209-B  
MODIFIED



DESIGN RATES	
ITEM	RATE
Surface Course	117 sq/ft/ft
Intermediate Course	117 sq/ft/ft
Tack Coat	0.55 gal/ft/ft
Asph	0

TABLE OF DESIGN QUANTITIES													
LOCATION		TOTAL	V	L	R	H	I	S	TACK COAT (Gals. (2))	ASPHALT CEMENT (Tons)	HMA RESURFACING (Surface Interm. Scarification) (Tons)		
ROAD IDENTIFICATION	STATION TO STATION	Sq. Yds.	Feet	Feet	Feet	Inches	Inches	Inches					
IA 14	877+60 to 876+00	0.20	35	13-15	13	3	1.5	1.5	12	0.67	5.56	5.56	60.00

- Notes:
- Finished slope shall match existing pavement, except that the maximum allowable slope is 3:1, minimum allowable slope is 2:1. Section may be modified as directed by the engineer through areas of special mapping.
  - Estimated for 2 courses. Not a bid item.
  - Scarification will be approximately a minimum of 1" and the gutter line the intent of the scarification operation is to remove 2" of the existing 1" HMA pavement HMA while preserving the underlying 1" HMA pavement surface.
  - Scarification will be approximately a minimum of 1" and the gutter line the intent of the scarification operation is to remove the existing HMA and approximately 1" HMA gutter line pavement section. This operation will create a vertical face adjacent to the curb along the gutter line for a HMA surface finish. Special staining as follows included.
  - To 61 22 Asphalt Cement Binder.

**TYPICAL CROSS SECTION  
HMA RESURFACING WITH MILLING  
Division 3 - Urban**

Page 3 of 3

# A d d e n d u m

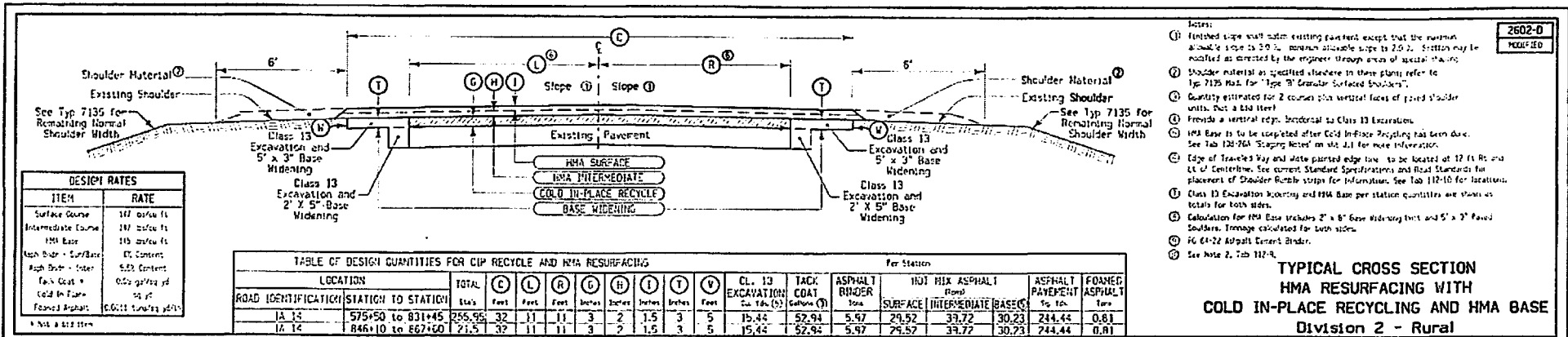
Iowa Department of Transportation  
Office of Contracts

Date of Letting: March 17, 2015  
Date of Addendum: March 10, 2015

<b>B.O.</b>	<b>Proposal ID</b>	<b>Proposal Work Type</b>	<b>County</b>	<b>Project Number</b>	<b>Addendum</b>
165	93-0141-011	HMA RESURFACING/COLD IN-PLACE RECYCLING	WAYNE	STPN-014-1(11)--2J-93	17MAR165.A02

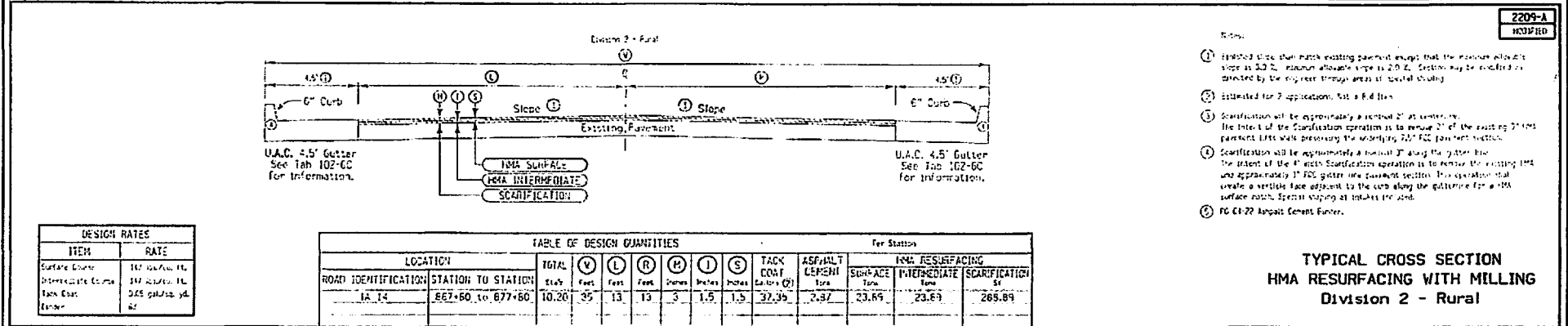
Replace SHEET B.2 with the attached SHEET B.2:

NOTE: The plan quantities remain the same.



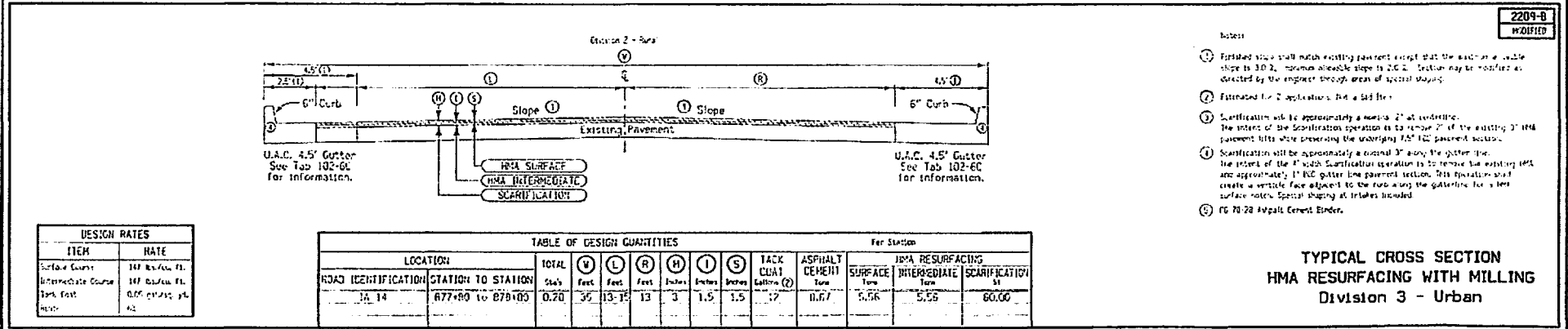
- Notes:
- Finished slope shall match existing pavement except that the maximum allowable slope is 3.0%. Minimum allowable slope is 2.0%. Section may be modified as directed by the engineer through areas of special staining.
  - Shoulder material as specified elsewhere in these plans refer to Typ. 7135 Mat. for "Type B" Granular Surfaced Shoulders".
  - Quantity estimated for 2 courses plus vertical faces of paved shoulder units. See Tab 114 for details.
  - Provide a vertical edge, incidental to Class 13 Excavation.
  - HMA Base is to be completed after Cold In-Place Recycling has been done. See Tab 120-26A "Staging Notes" on 114-J1 for more information.
  - Edge of Travelway and white painted edge line to be located at 12 ft. R and 14 ft. L of Centerline. See current Standard Specifications and Road Standards for placement of Shoulder Bump Stops for Information. See Tab 112-16 for locations.
  - Class 13 Excavation quantity and HMA Base per station quantities are shown as totals for both sides.
  - Calculation for HMA Base includes 2" x 5" Base Widening and 5' x 3" Paved Shoulders. Trimmage calculated for both sides.
  - PG 64-22 Asphalt Cement Binder.
  - See Note 2, Tab 112-4.

**TYPICAL CROSS SECTION HMA RESURFACING WITH COLD IN-PLACE RECYCLING AND HMA BASE**  
Division 2 - Rural



- Notes:
- 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 staining.
  - Estimated for 2 applications. Not a bid item.
  - Scarification will be approximately a normal 2" at centerline. The intent of the Scarification operation is to remove 2" of the existing 11.5" HMA pavement lifts while preserving the underlying 7.5" HMA pavement section.
  - Scarification will be approximately a normal 3" along the gutter line. The intent of the 3" depth Scarification operation is to remove the existing HMA and approximately 1" HMA gutter line pavement section. This operation shall create a vertical face adjacent to the curb along the gutterline for a HMA surface patch. Special staging at includes the curb.
  - PG 64-22 Asphalt Cement Binder.

**TYPICAL CROSS SECTION HMA RESURFACING WITH MILLING**  
Division 2 - Rural



- Notes:
- 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 staining.
  - Estimated for 2 applications. Not a bid item.
  - Scarification will be approximately a normal 2" at centerline. The intent of the Scarification operation is to remove 2" of the existing 11.5" HMA pavement lifts while preserving the underlying 7.5" HMA pavement section.
  - Scarification will be approximately a normal 3" along the gutter line. The intent of the 3" depth Scarification operation is to remove the existing HMA and approximately 1" HMA gutter line pavement section. This operation shall create a vertical face adjacent to the curb along the gutterline for a HMA surface patch. Special staging at includes the curb.
  - PG 70-22 Asphalt Cement Binder.

**TYPICAL CROSS SECTION HMA RESURFACING WITH MILLING**  
Division 3 - Urban