



# Wisconsin Department of Transportation

## Division of Transportation Systems Development

Bureau of Project Development  
4822 Madison Yards Way, 4<sup>th</sup> Floor South  
Madison, WI 53705

August 4, 2022

Telephone: (608) 266-1631  
Facsimile (FAX): (608) 266-8459

### NOTICE TO ALL CONTRACTORS:

**Proposal #14: 1020-01-80, WISC 2022372**  
**Hudson – Baldwin**  
**IH 94 SWEF 61 Hudson**  
**IH 94**  
**St. Croix County**

### Letting of August 9, 2022

This is Addendum No. 02, which provides for the following:

#### Special Provisions:

Revised Special Provisions	
Article No.	Description
3	Prosecution and Progress
5	Traffic
55	SWEF Building, Heating and Ventilation, Item SPV.0060.102

#### Schedule of Items:

Revised Bid Item Quantities					
Bid Item	Item Description	Unit	Old Quantity	Revised Quantity	Proposal Total
460.2000	Incentive Density HMA Pavement	DOL	4,610	-680	3,930
460.6244	HMA Pavement 4 MT 58-34 S	Ton	3,510	-1,050	2,460

Added Bid Item Quantities					
Bid Item	Item Description	Unit	Old Quantity	Revised Quantity	Proposal Total
465.0105	Asphaltic Surface	Ton	0	1,050	1,050

#### Plan Sheets:

Revised Plan Sheets	
Plan Sheet	Plan Sheet Title (brief description of changes to sheet)
380	Traffic Control Stage 1
490	Miscellaneous Quantities

**Other**

**ASP-5** has been revised and is added to this addendum.

The responsibility for notifying potential subcontractors and suppliers of these changes remains with the prime contractor.

Sincerely,

*Mike Coleman*

Proposal Development Specialist  
Proposal Management Section

**ADDENDUM NO. 02**  
**PROJECT ID 1020-01-80**  
**August 4, 2022**

**Special Provisions**

**3. Prosecution and Progress.**

*Replace section titled **Exit Ramp to Hudson SWEF** with the following:*

**Exit Ramp to Hudson SWEF**

Construction traffic must utilize either the existing exit ramp taper or the proposed exit ramp taper from November 18, 2022 – March 17, 2023 to access the site from IH 94. The taper being utilized shall consist of pavement and shoulders through the gore area.

*Replace section titled **Entrance Ramp to Hudson SWEF** with the following:*

**Entrance Ramp from Hudson SWEF**

Construction traffic must utilize either the existing entrance ramp taper or the proposed entrance ramp taper from November 18, 2022 – March 17, 2023 to access IH 94 from the site. The taper being utilized shall consist of pavement and shoulders through the gore area.

**5. Traffic.**

*Replace section titled Hudson SWEF site construction with the following:*

Hudson SWEF site construction

Construction of the exit and entrance ramp tapers can be completed during off-peak traffic periods or when EB IH 94 traffic is shifted onto temporary pavement in the median.

**55. SWEF Building, Heating and Ventilation, Item SPV.0060.102**

*Replace subsection titled **Installer**: under section titled **Section 23 09 23 – Direct Digital Control System for HVAC** with the following:*

**INSTALLER:**

A firm specializing and experienced in DDC control system installation for no less than 3 years. All engineering and commissioning work shall be done by qualified employees of this manufacturer, or qualified employees of an Authorized Representative of that manufacturer that provides engineering and commissioning of the manufacturer's control equipment. Where installing contractor is an authorized representative of the control equipment manufacturer, submit written confirmation of such authorization. Indicate in letter of authorization that the installing contractor has successfully completed all necessary training required for the engineering, installation, and commissioning of equipment and systems to be provided for the project and that such authorization has been in effect for a period of not less than three years. The letter of authorization should also indicate that the installing contractor is authorized to install the manufacturer's DDC equipment at the project location at the time the project is bid. Installation of the equipment shall be done by qualified mechanics and/or electricians in the direct employ or be directly subcontracted and under the supervision of the manufacturer or Authorized Representative.

Delete the paragraph under SYSEM SOFTWARE FEATURES under subsection titled **SUPERVISORY CONTROLLERS** under **Section 23 09 23 – Direct Digital Control System for HVAC** that reads as follows:

Supervisory controllers shall automatically accumulate and store runtime hours for binary input and output points specified in Section 23 09 14 of this specification.

Replace subsection titled **PROGRAMMABLE CONTROLLERS** under section titled **Section 23 09 23 – Direct Digital Control System for HVAC** with the following:

### **PROGRAMMABLE CONTROLLERS**

Programmable controllers shall be provided with a software program that shall allow the user to design flexible software algorithms for the control sequences as described in Section 23 09 93 portions of this specification.

Programmable controllers shall support all necessary point inputs and outputs to perform the specified control sequence in a totally stand-alone fashion.

Each programmable controller shall perform its own limit and status monitoring and analysis to maximize network performance by reducing unnecessary communications.

Each programmable controller shall support the use of a locally mounted status and adjust panel interface to allow for the local adjustment of all setpoints, temporary override of any input or output points and status of all points directly at the controller. The capabilities of the locally mounted status and adjust panel shall include, but not be limited to, the following information for the programmable controllers to which:

- Display temperatures
- Display status
- Display setpoints
- Display control parameters
- Override binary output control
- Override analog output control
- Override analog setpoints
- Modification of gain and offset constants

All system setpoints, proportional bands, control algorithms, and any other programmable parameters shall be stored such that a power failure of any duration does not necessitate reprogramming the programmable controller.

Programmable controllers shall support, but not be limited to, the following configurations of systems to address current requirements as described in Sections 23 09 93 portions of this specification, and for future expansion of air handling units:

- Mixed air handling units
- 100 percent outside air handling units
- Boiler or chiller plants with pump logic
- Hot water heat exchangers
- Cooling towers
- Zone pressurization of labs
- Smoke control systems
- Generic system interlocking through hardware

Replace subsection titled **APPLICATION SPECIFIC CONTROLLER – HVAC APPLICATIONS** under section titled **Section 23 09 23 – Direct Digital Control System for HVAC** with the following:

#### **APPLICATION SPECIFIC CONTROLLERS - HVAC APPLICATIONS**

Each supervisory controller shall be able to extend its monitoring and control through the use of stand-alone application specific controllers (ASC's).

Each ASC shall operate as a stand-alone controller capable of performing its specified control responsibilities independently of other controllers in the network. Each ASC shall be a microprocessor based, multi-tasking, real-time digital control processor.

Each ASC shall have sufficient memory to support its own operating system and databases including:

- Control Processes
- Energy Management Applications
- Operator I/O (Portable Service Terminal)

The operator interface to any ASC point or program shall be through the supervisory controller connection to any ASC on the network.

ASC's shall directly support the temporary use of a portable service terminal that can be connected to the ASC via zone temperature or directly at the controller. The capabilities of the portable service terminal shall include, but not be limited to, the following information for the:

- Display temperatures
- Display status
- Display setpoints
- Display control parameters
- Override binary output control
- Override analog output control
- Override analog setpoints
- Modification of gain and offset constants

All system setpoints, proportional bands, control algorithms, and any other programmable parameters shall be stored such that a power failure of any duration does not necessitate reprogramming the ASC.

ASC's shall support, but not be limited to, the following configurations of systems to address current requirements as described in Section 23 09 93 portions of this specification, and for future expansion of air handling units:

- Variable Air Volume Terminals
- Reheat Terminals
- Fan Coils
- Unit Ventilators
- Packaged Air Handling Units

All application specific controllers shall be fully programmable. Question and answer or template programming are not acceptable. Control sequences for terminal unit control that utilize devices wired directly to the terminal unit application controller shall be programmed in the application specific controller and shall be stand-alone in function, i.e., occupancy sensing, temperature setpoint setback, etc. Supervisory controllers shall not be involved in the control sequence logic unless it involves sharing data between or from individual terminal unit controllers to be utilized in a global sequence, i.e., trim and respond strategies, terminal unit grouping, etc.

Replace paragraph one under section titled **PART 3 – EXECUTION, GENERAL** under section titled **Section 23 09 23 – Direct Digital Control System for HVAC** with the following:

All electronic work required as an integral part of the Direct Digital Control system work is the responsibility of this section unless specifically indicated otherwise in this section or in Division 26.

Replace paragraph one under section titled **PART 3 – EXECUTION, INSTALLATION** under section titled **Section 23 09 23 – Direct Digital Control System for HVAC** with the following:

All work and materials are to conform in every detail to the rules and requirements of the National Electrical Code and present manufacturing standards. All material shall be UL approved.

Replace paragraph nine under section titled **PART 3 – EXECUTION, INSTALLATION** under section titled **Section 23 09 23 – Direct Digital Control System for HVAC** with the following:

Where a new system is required to be extended to an existing agency Building Automation Network (BAN) (typically connected via the agency Local Area Network (LAN) or Wide Area Network (WAN)), extension of the data-net between DDC Controllers and to the BAN to be by this contractor unless specified to be provided by the division 27 contractor.

Replace the last paragraph under section titled **SMOKE DAMPERS AND COMBINATION FIRE/SMOKE DAMPERS, INSTALLATION** under section titled **Section 23 33 00 – Air Duct Accessories** with the following:

Use airfoil shaped damper blades on the following system:

- Control dampers as specified as part of Specification Section 23 09 93.
- Smoke detectors **Smoke detectors** are furnished and installed by the Electrical Contractor.

#### **Schedule of Items**

Attached, dated August 4, 2022, are the revised Schedule of Items Pages 3 and 19.

#### **Plan Sheets**

The following 8½ x 11-inch sheets are attached and made part of the plans for this proposal:  
Revised: 356, 490

END OF ADDENDUM

## ADDITIONAL SPECIAL PROVISIONS 5 FUEL COST ADJUSTMENT

### A Description

Fuel Cost Adjustments will be applied to partial and final payments for work items categorized in Section B as a payment to the contractor or a credit to the department. ASP-5 shall not apply to any force account work.

### B Categories of Work Items

The following items and Fuel Usage Factors shall be used to determine Fuel Cost Adjustments:

(1) Earthwork.		Unit	Gal. Fuel Per Unit
205.0100	Excavation Common	CY	0.23
205.0200	Excavation Rock	CY	0.39
205.0400	Excavation Marsh	CY	0.29
208.0100	Borrow	CY	0.23
208.1100	Select Borrow	CY	0.23
209.1100	Backfill Granular Grade 1	CY	0.23
209.1500	Backfill Granular Grade 1	Ton	0.115
209.2100	Backfill Granular Grade 2	CY	0.23
209.2500	Backfill Granular Grade 2	Ton	0.115
350.0102	Subbase	CY	0.28
350.0104	Subbase	Ton	0.14
350.0115	Subbase 6-Inch	SY	0.05
350.0120	Subbase 7-Inch	SY	0.05
350.0125	Subbase 8-Inch	SY	0.06
350.0130	Subbase 9-Inch	SY	0.07
350.0135	Subbase 10-Inch	SY	0.08
350.0140	Subbase 11-Inch	SY	0.09
350.0145	Subbase 12-Inch	SY	0.09

### C Fuel Index

A Current Fuel Index (CFI) in dollars per gallon will be established by the Department of Transportation for each month. The CFI will be the price of No. 2 fuel oil, as reported in U.S. Oil Week, using the first issue dated that month. The CFI will be the average of prices quoted for Green Bay, Madison, Milwaukee and Minneapolis.

The base Fuel Index (BFI) for this contract is \$3.90 per gallon.

### D Computing the Fuel Cost Adjustment

The engineer will compute the ratio CFI/BFI each month. If the ratio falls between 0.85 and 1.15, inclusive, no fuel adjustment will be made for that month. If the ratio is less than 0.85 a credit to the department will be computed. If the ratio is greater than 1.15 additional payment to the contractor will be computed. Credit or additional payment will be computed as follows:

- (1) The engineer will estimate the quantity of work done in that month under each of the contract items categorized in Section B.
- (2) The engineer will compute the gallons of fuel used in that month for each of the contract items categorized in Section B by applying the unit fuel usage factors shown in Section B.
- (3) The engineer will summarize the total gallons (Q) of fuel used in that month for the items categorized in Section B.
- (4) The engineer will determine the Fuel Cost Adjustment credit or payment from the following formula:

$$FA = \left( \frac{CFI}{BFI} - 1 \right) \times Q \times BFI$$

(plus is payment to contractor; minus is credit to the department)

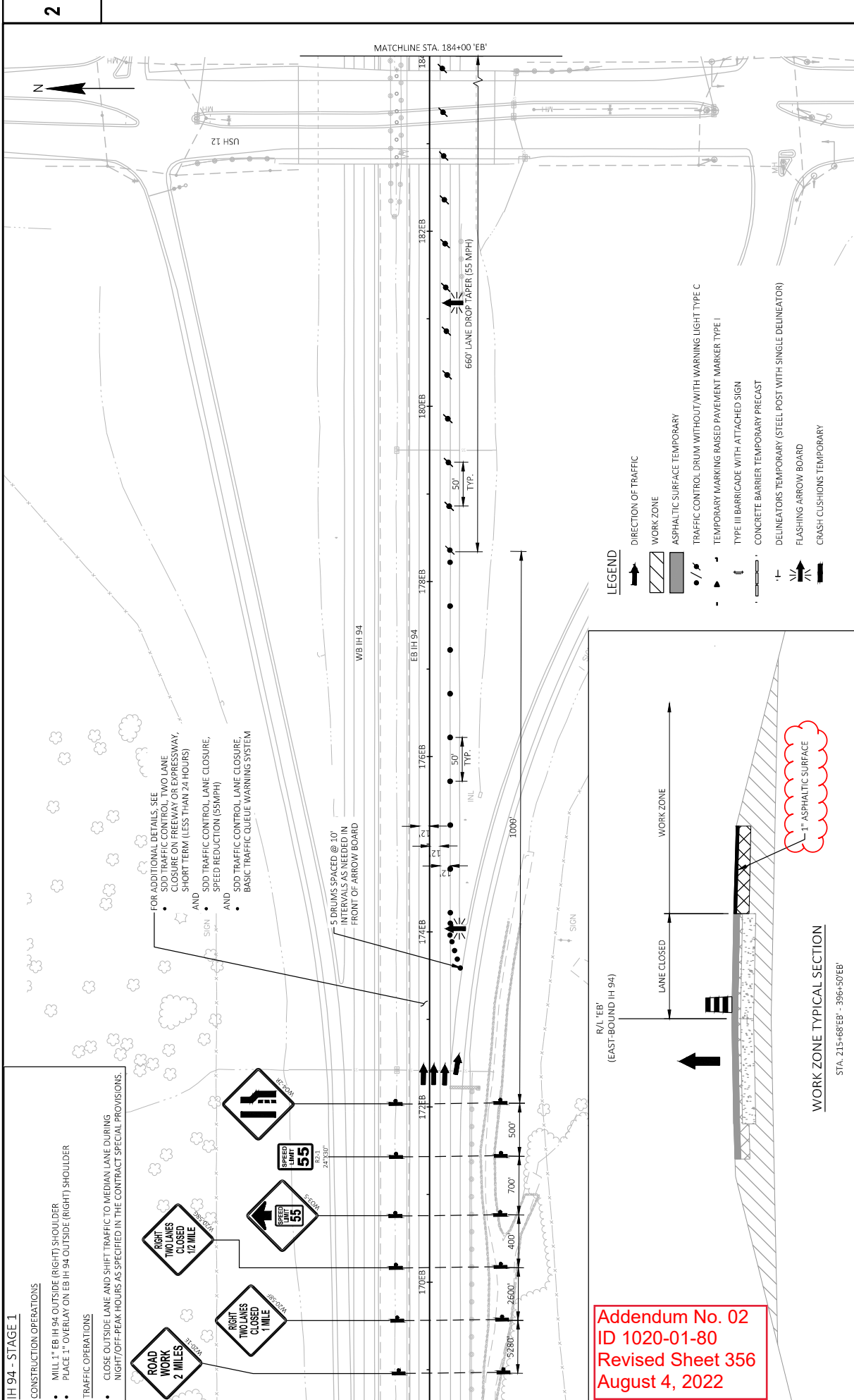
Where	FA	=	Fuel Cost Adjustment (plus or minus)
	CFI	=	Current Fuel Index
	BFI	=	Base Fuel Index
	Q	=	Monthly total gallons of fuel

### E Payment

A Fuel Cost Adjustment credit to the department will be deducted as a dollar amount each month from any sums due to the contractor. A Fuel Cost Adjustment payment to the contractor will be made as a dollar amount each month.

Upon completion of the work under the contract, any difference between the estimated quantities and the final quantities will be determined. An average CFI, calculated by averaging the CFI for all months that fuel cost adjustment was applied, will be applied to the quantity differences. The average CFI shall be applied in accordance with the procedure set forth in Section D.





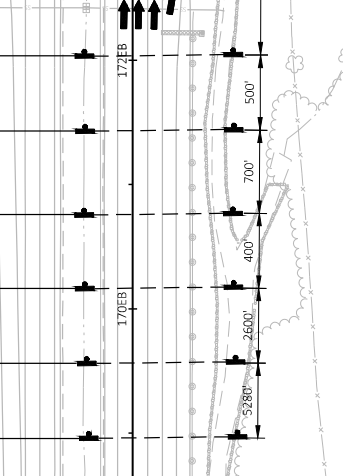
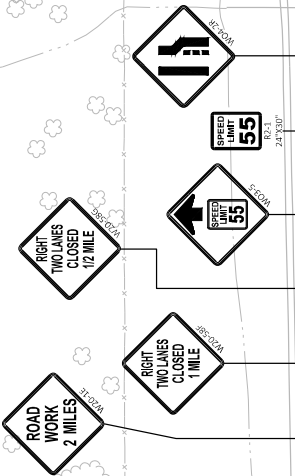
**IH 94 - STAGE 1**

**CONSTRUCTION OPERATIONS**

- MILL 1" EB IH 94 OUTSIDE (RIGHT) SHOULDER
- PLACE 1" OVERLAY ON EB IH 94 OUTSIDE (RIGHT) SHOULDER

**TRAFFIC OPERATIONS**

- CLOSE OUTSIDE LANE AND SHIFT TRAFFIC TO MEDIAN LANE DURING NIGHT/OFF-PEAK HOURS AS SPECIFIED IN THE CONTRACT SPECIAL PROVISIONS.



**Addendum No. 02**  
**ID 1020-01-80**  
**Revised Sheet 356**  
**August 4, 2022**

ROUT AND SEAL

415,600.00 S

PROJECT CATEGORY	LOCATION	STATION - STATION	(LF)
0010	RAMP	325+96 R - 361+50 R	5,553
	RAMP	361+50 R - 373+05 R	1,157
	RAMP	373+05 R - 395+69 R	3,380
<b>PROJECT 1020-01-80 TOTAL</b>			<b>10,090</b>

HMA ITEMS

PROJECT CATEGORY	LOCATION	STATION - STATION	WEATHER PAVING (TON)	TACK COAT (GAL)	HMA PAVEMENT (TON)	HMA 3 MT 56-34S-4 (TON)	ASPHALTIC SURFACE (TON)	ASPHALTIC FLUMES (SY)	ASPHALTIC SHOULDER RUMBLE STRIPS (LF)
0010	RAMP	325+96 R - 361+50 R	-	764	909	606	-	-	-
	RAMP	361+50 R - 373+05 R	-	68	81	55	-	-	-
	RAMP	373+05 R - 395+69 R	-	270	322	215	-	-	-
	PARKING LOT	2361+68 P - 2378+59 P	-	19	23	16	-	24	-
	LOOP	3362+50 L - 3380+45 L	-	454	541	381	-	58	-
	EMPLOYEE PARKING LOT	5373+10 E - 5374+89 E	-	184	190	128	-	-	-
	I-84 EB	246+53 EB - 282+75 EB	100	936	506	338	401	-	7,325
	I-84 EB	282+75 EB - 395+65 EB	160	1,755	1,109	740	648	-	9,680
<b>PROJECT 1020-01-80 TOTAL</b>			<b>260</b>	<b>4,430</b>	<b>3,660</b>	<b>2,460</b>	<b>1,050</b>	<b>82</b>	<b>17,005</b>

\*\*\* ADDITIONAL QUANTITY FOUND IN TRAFFIC CONTROL \*\*\*

CONCRETE ITEMS

PROJECT CATEGORY	LOCATION	STATION - STATION	CONCRETE PAVEMENT 10-INCH (CY)	CONCRETE PAVEMENT 11-INCH (SY)	CONCRETE PAVEMENT 12 1/2-INCH REINFORCEMENT (SY)	SCALE APPROACH PAVEMENT (SY)
0010	RAMP	325+96 R - 361+50 R	63	-	6,982	-
	RAMP	361+50 R - 373+05 R	244	-	4,354	-
	RAMP	373+05 R - 395+69 R	22	-	4,765	-
	SCALE	1354+25 S - 1380+44 S	-	-	269	270
	PARKING LOT	2361+68 P - 2378+59 P	-	13,370	-	-
	LOOP	3362+50 L - 3380+45 L	355	-	-	-
	I-84 EB	246+53 EB - 297+84 EB	-	-	1,550	-
<b>PROJECT 1020-01-80 TOTAL</b>			<b>685</b>	<b>17,680</b>	<b>16,370</b>	<b>270</b>

Addendum No. 02  
 ID 1020-01-80  
 Revised Sheet 490  
 August 4, 2022



Proposal Schedule of Items

Proposal ID: 20220809014 Project(s): 1020-01-80

Federal ID(s): WISC 2022372

SECTION: 0001 Contract Items

Alt Set ID: Alt Mbr ID:

Proposal Line Number	Item ID Description	Approximate Quantity and Units	Unit Price	Bid Amount
0060	205.0100 Excavation Common	302,466.000 CY	_____.	_____.
0062	208.0100 Borrow	33,355.000 CY	_____.	_____.
0064	213.0100 Finishing Roadway (project) 001. 1020-01-80	1.000 EACH	_____.	_____.
0066	305.0110 Base Aggregate Dense 3/4-Inch	2,680.000 TON	_____.	_____.
0068	305.0120 Base Aggregate Dense 1 1/4-Inch	58,480.000 TON	_____.	_____.
0070	312.0110 Select Crushed Material	515.000 TON	_____.	_____.
0072	405.0100 Coloring Concrete WisDOT Red	685.000 CY	_____.	_____.
0074	415.0100 Concrete Pavement 10-Inch	17,680.000 SY	_____.	_____.
0076	415.0110 Concrete Pavement 11-Inch	16,370.000 SY	_____.	_____.
0078	415.0125 Concrete Pavement 12 1/2-Inch	1,550.000 SY	_____.	_____.
0080	415.6000.S Rout and Seal	10,090.000 LF	_____.	_____.
0082	450.4000 HMA Cold Weather Paving	3,060.000 TON	_____.	_____.
0084	455.0605 Tack Coat	4,430.000 GAL	_____.	_____.
0086	460.2000 Incentive Density HMA Pavement	3,930.000 DOL	1.00000	3,930.00
0088	460.6243 HMA Pavement 3 MT 58-34 S	3,680.000 TON	_____.	_____.
0090	460.6244 HMA Pavement 4 MT 58-34 S	2,460.000 TON	_____.	_____.



Proposal Schedule of Items

Proposal ID: 20220809014 Project(s): 1020-01-80

Federal ID(s): WISC 2022372

SECTION: 0001 Contract Items

Alt Set ID: Alt Mbr ID:

Proposal Line Number	Item ID Description	Approximate Quantity and Units	Unit Price	Bid Amount
0538	SPV.0090 Special 005. Aluminum Landscaping Edging Material	190.000 LF	_____.	_____.
0540	SPV.0180 Special 001. Scale Approach Pavement Reinforcement	270.000 SY	_____.	_____.
0542	SPV.0180 Special 002. Weed Barrier Fabric	390.000 SY	_____.	_____.
0544	SPV.0195 Special 001. Base Aggregate Dense 3/4-Inch Washed	240.000 TON	_____.	_____.
0546	465.0105 Asphaltic Surface	1,050.000 TON	_____.	_____.
<b>Section: 0001</b>			<b>Total:</b>	_____.
			<b>Total Bid:</b>	_____.