



# Wisconsin Department of Transportation

## Division of Transportation Systems Development

Bureau of Project Development  
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December 7, 2017

### NOTICE TO ALL CONTRACTORS:

**Proposal #14: 1130-32-71, WISC 2018 011**  
**Green Bay - Oconto**  
**Lineville Road – Norfield Road**  
**USH 41**  
**Brown County**

**1150-54-71, WISC 2018 012**  
**Green Bay - Oconto**  
**CTH B Interchange**  
**USH 41**  
**Brown County**

**1150-68-71, WISC 2018 013**  
**Green Bay – Oconto**  
**Brown Road - Structure B-42-**  
**0110**  
**USH 41/USH 141**  
**Brown County**

### Letting of December 12, 2017

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

#### Special Provisions:

Revised Special Provisions	
Article No.	Description
9	Utilities
59	Cable Barrier Type 1, Item 613.1100.S; Cable Barrier End Terminal Type 1 Item 613.1200.S.

Added Special Provisions	
Article No.	Description
84	HMA Pavement 4 SMA 58-28 H; HMA Pavement Test Strip, Item 460.0100.S.
85	Material Transfer Vehicle, SPV.0105.003

Deleted Special Provisions	
Article No.	Description
44	Application of QMP for HMA Pavements
45	HMA Pavement Percent Within Limits QMP
46	Appendix A
67	HMA Percent Within Limits (PWL) Test Strip Volumetrics, Item SPV.0060.004; HMA Percent Within Limits (PWL) Test Strip Density Item SPV.0060.005.

**Schedule of Items:**

<b>Revised Bid Item Quantities</b>					
Bid Item	Item Description	Unit	Old Quantity	Revised Quantity	Proposal Total
460.2000	Incentive Density HMA Pavement	DOL	10,265	16,575	26,840
460.4110.S	Reheating HMA Pavement Longitudinal Joints	LF	154,000	-69,000	85,000
460.5223	HMA Pavement 3 LT 58-28-S	TON	1,380	5,350	6,730
460.5224	HMA Pavement 4 LT 58-28-S	TON	14,620	-5,360	9,260
505.0600	Bar Steel Reinforcement HS Coated Structures	LB	524,670	-460	524,210

<b>1130-32-71 Deleted Bid Item Quantities</b>					
Bid Item	Item Description	Unit	Old Quantity	Revised Quantity	Proposal Total
460.2005	Incentive Density PWL HMA Pavement	DOL	22,247	-22,247	0
460.2010	Incentive Air Voids HMA Pavement	DOL	26,015	-26,015	0
460.7424	HMA Pavement 4 HT 58-28 H	TON	11,500	-11,500	0
SPV.0060.04	HMA Percent Within Limits (PWL) Test Strip Volumetrics	EACH	2	-2	0
SPV.0060.05	HMA Percent Within Limits (PWL) Test Strip Density	EACH	2	-2	0

<b>1130-32-71 Added Bid Item Quantities</b>					
Bid Item	Item Description	Unit	Old Quantity	Revised Quantity	Proposal Total
460.0100.S	HMA Pavement Test Strip	EACH	-	1	1
460.8424	HMA Pavement 4 SMA 58-28 H	TON	-	11,500	11,500
SPV.0105.003	Material Transfer Vehicle	LS	-	1	1

**Plan Sheets:**

<b>1130-32-71 &amp; 1150-54-71 Plan sheets Revised Plan Sheets</b>	
Sheet #	Plan Sheet Title (brief description of changes to sheet)
12	(Finished Typical Sections) Changed mix types on mainline surface and shoulder bottom layer
245	(Miscellaneous Quantities) Revised 3LT 58-28S, 4LT 58- 28S, and Reheating Long joints quantity, Replaced HMA pavement 4 HT 58-28H with 4 SMA 58-28H, removed incentive tonnage columns
507	(Cross Section, Quantities, and Notes) Changed superstructure quantity for bid item 505.0600.
516	(Superstructure Reinforcing Plan) Changed spacing of S920 bars. Added S580 and S581 bars.
517	(Superstructure Section) Changed spacing of longitudinal bars.
519	(Superstructure Details-2) Changed quantity of S515 and S516 bars. Added S580 and S581 bars.
523	(Cross Section, Quantities, and Notes) Changed superstructure quantity for bid item 505.0600.
532	(Superstructure Reinforcing Plan) Changed spacing of S920 bars. Added S580 and S581 bars.
533	(Superstructure Section) Changed spacing of longitudinal bars.
535	(Superstructure Details-2) Changed quantity of S515 and S516 bars. Added S580 and S581 bars.

**Other**

- *Under the Schedule of Items, the item description for Proposal Line Number 0010 should read Removing Old Structure (station) 002. STA 624+04 **NB***
- *Under the Schedule of Items, the item description for Proposal Line Number 0016 should read Removing Old Structure (station) 005. STA 642+08 **SB***

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**  
**1130-32-71, 1150-54-71, & 1150-68-71**  
**December 7, 2017**

**Special Provisions**

**9. Utilities**

*Replace paragraphs five and six under section titled **ATC Management** with the following:*

A short term outage may be obtained from ATC for one set of transmission lines. A Transmission Line Outage Agreement will be required to reserve the line outage timeframe. The live-line hold and line outages will need to be coordinated/scheduled with ATC at least 4 months prior. Outage availability will be determined by ATC and is dictated by predicted power transmission needs. The best time for an outage is in the month of May is between the hours of 10:00 AM to 4:00 PM.

The contractor is responsible to obtain the necessary permits and pay the associated costs to initiate a line outage if desired. Preliminary costs are estimated to be \$8,000/day, final costs will be included in the Outage Agreement. Development of this agreement will also include the development of a work plan to coordinate the work requirements of the contractor with the available line clearance and equipment setup needs of the ATC line-hold contractor. Contact Mike Olsen at (920) 338-6582 to obtain the permits necessary to de-energize the lines.

**44. DELETED.**

**45. DELETED.**

**46. DELETED.**

**59. Cable Barrier Type 1, Item 613.1100.S; Cable Barrier End Terminal Type 1 Item 613.1200.S.**

*Replace paragraph one under section titled **B Materials** with the following:*

Provide either the CASS TL-3 system manufactured by Trinity Highway Products or the Safence TL-3 system manufactured by Safence that is on the approved product list for the cable barrier system.

**67. DELETED.**

**84. HMA Pavement 4 SMA 58-28 H; HMA Pavement Test Strip, Item 460.0100.S.**

**A Description**

Conform to standard spec 450 and 460 as modified in this special provision.

*Replace standard spec 460.1 with the following to describe SMA:*

- (1) Only the term SMA will be used in the following to describe SMA and other gap-graded mixtures, but is intended for use with any gap-graded mixture. This special provision describes SMA mixture design, providing and maintaining a quality management program for SMA mixtures, and constructing SMA pavement.

**B Materials**

*Replace standard spec 460.2.1 with the following to remove conditional SMA statements and warm mix additive along with clarify mineral filler definition and use:*

- (1) Furnish a homogeneous mixture of coarse aggregate, fine aggregate, mineral filler,

stabilizer, recycled material if used, and asphaltic material.

- (2) Mineral filler (AASHTO M17) shall consist of finely divided mineral matter such as crushed fines, lime or fly ash. At the time of use, it should be sufficiently dry to flow freely and essentially free from agglomerations. Filler shall be free from organic impurities and have a plastic index not greater than 4 when AASHTO T89/90 is performed.

*Replace standard spec table 460-1 with the following to specify gradation master range and additional sieves for SMA.*

**TABLE 460-1 AGGREGATE GRADATION MASTER RANGE AND VMA REQUIREMENTS**

Sieve	% PASSING DESIGNATED SIEVES	
	NOMINAL SIZE	
	SMA No. 4 (12.5 mm)	SMA No. 5 (9.5 mm)
50.0-mm		
37.5-mm		
25.0-mm		
19.0-mm	100	
12.5-mm	90 - 97	100
9.5-mm	58 - 80	90 - 100
4.75-mm	25 - 35	35 - 45
2.36-mm	15 - 25	18 - 28
0.60-mm	18 max	18 max
75- $\mu$ m	8.0 - 11.0	8.0-12.0
% MINIMUM VMA	16.0	17.0

*Replace standard spec 460.2.4.3 with the following to remove specific approval schedule and allow for more than a single additive system to be used:*

- (1) Add an organic fiber, an inorganic fiber, additional polymer-plastic, additional polymer-elastomer, or approved alternate stabilizer to all SMA mixtures. If proposing an alternate, submit the proposed additive system, asphaltic binder, and stabilizer additive, along with samples of the other mixture materials to the department during the mix design approval.

*Replace standard spec 460.2.5 with the following to describe Recycled Asphaltic Material use in SMA:*

- (1) The contractor may use recycled asphaltic materials from FRAP, RAP, and RAS in SMA mixtures. Stockpile recycled materials separately from virgin materials and list each as individual JMF components.
- (2) Control recycled materials used in SMA by evaluating the percent binder replacement, the ratio of recovered binder to the total binder. The maximum allowable percent binder replacement shall not exceed 15.0 percent.

*Replace standard spec 460.2.7 with the following to detail SMA mix design requirements:*

- (1) For each SMA mixture type used under the contract, develop and submit an asphaltic mixture design according to CMM 8-66 and conforming to the requirements of table 460-1 and table 460-2. The values listed are design limits; production values may exceed those limits. The department will review mixture designs and report the results of that review to

the designer according to CMM 8-66.

**TABLE 460-2 MIXTURE REQUIREMENTS**

Mixture type	SMA
ESALs x 10 <sup>6</sup> (20 yr design life)	—
LA Wear (AASHTO T96) 500 revolutions(max % loss)	35
Soundness (AASHTO T104) (sodium sulfate, max % loss)	12
Freeze/Thaw (AASHTO T103) (specified counties, max % loss)	18
Fractured Faces (ASTM 5821) (one face/2 face, % by count)	100/90
Flat & Elongated (ASTM D4791) (max %, by weight)	20 (3:1 ratio)
Fine Aggregate Angularity (AASHTO T304, method A, min)	45
Sand Equivalency (AASHTO T176, min)	50
Gyratory Compaction	
Gyrations for N <sub>ini</sub>	7
Gyrations for N <sub>des</sub>	65
Gyrations for N <sub>max</sub>	100
Air Voids, %V <sub>a</sub> <sup>[1]</sup> (%G <sub>mm</sub> N <sub>des</sub> )	4.5 (95.5)
% G <sub>mm</sub> N <sub>ini</sub>	—
% G <sub>mm</sub> N <sub>max</sub>	— ≤ 98.0
Dust to Binder Ratio (% passing 0.075mm/P <sub>be</sub> )	1.2 - 2.0
Voids filled with Binder (VFB or VFA, %)	70 - 80
Tensile Strength Ratio <sup>[2]</sup> (TSR) (AASHTO T283)	0.80
Draindown at Production Temperature (%)	≤0.30
Effective Asphalt Content, P <sub>be</sub> min	5.5%

<sup>[1]</sup> Use AASHTO T 331 (Vacuum Sealing) to determine mixture bulk specific gravity.

<sup>[2]</sup> TSR shall be run at 7.0 ± 1.0% V<sub>a</sub> and compacted to 95 +/-5 mm for a 150 mm diameter specimen.

*Replace standard spec 460.2.8.2.1.5 with the following to update JMF and warning limits for SMA:*

- (1) Conform to the following control limits for the JMF and warning limits based on a running average of the last 4 data points:

ITEM	JMF LIMITS	WARNING LIMITS
Percent passing given sieve:		
37.5-mm	+/- 6.0	+/- 4.5
25.0-mm	+/- 6.0	+/- 4.5
19.0-mm	+/- 5.5	+/- 4.0
12.5-mm	+/- 5.5	+/- 4.0
9.5-mm	+/- 5.5	+/- 4.0

2.36-mm	+/- 5.0	+/- 4.0
75-µm	+/- 2.0	+/- 1.5
Asphaltic content in percent	- 0.3	- 0.2
Air voids in percent	+ 1.3/-1.0	+ 1.0/-0.7
Air voids in percent (SMA)	+/- 1.3	+/- 1.0
VMA in percent <sup>[1]</sup>	- 0.5	- 0.2

<sup>[1]</sup> VMA limits based on minimum requirement for mix design nominal maximum aggregate size in table 460-1.

(2) Warning bands are defined as the area between the JMF limits and the warning limits.

*Add the following to standard spec 460.2.8.2.1.7 to further define conforming material and pay reduction based on individual test results:*

(9) In order to be considered a conforming material during production, the four point running average for air voids must show consistent production results. In order to achieve this, the four point running average must not contain more than one QC test that is beyond the JMF limits of the target air void (i.e., material produced at or below 3.1% Va or at or above 5.9% Va).

*Replace standard spec 460.2.8.3.1.6 (1) with the following to define acceptable verification parameters for SMA:*

(1) The engineer will provide test results to the contractor within 2 mixture-production days after obtaining the sample. The quality of the product is acceptably verified if it meets the following limits:

- Va is within a range of 3.2 to 5.8 percent
- VMA is within minus 0.5 of the minimum requirement for the mix design nominal maximum aggregate size.

*Add the following to standard spec 460.2.8.3.1.8 to further identify material to be removed and replaced:*

(3) Remove and replace SMA where excessive bleeding problems, fat spots, or segregation occur. These are unacceptable and shall be corrected or removed, per engineer review, at no additional expense to the department. If such areas are identified prior to or during inspection of the completed pavement, the root cause and amount of material affected must be determined. If there is not consensus between the contractor and engineer as to material qualifying for removal, the department's Bureau of Technical Services shall be consulted. The engineer will thoroughly document the areas of affected pavement immediately (within 24 hours of identification). This documentation must include, but is not limited to: pictures of the material in question, station locations, lane(s) affected, length and width of the affected area, and any other pertinent information. The engineer will provide documentation to BTS as soon as available.

## **C Construction**

*Replace standard spec 460.3.1 with the following to insert SMA as traffic volume in bid item encoding:*

(1) Construct SMA pavement of the type the bid item indicates encoded as follows:

		4	SMA	58-34	V
		↙	↑	↑	↙
		<b>Gradation</b>	<b>Traffic</b>	<b>Binder</b>	<b>Designation</b>
<b>GRADATIONS (NMAS)</b>		<b>TRAFFIC VOLUME</b>		<b>BINDER DESIGNATION LEVEL</b>	
4	12.5 mm	SMA		H	Heavy
5	9.5 mm			V	Very Heavy
				E	Extremely Heavy

(2) Construct HMA pavement conforming to the general provisions of 450.3.

*Add the following to standard spec 450.3.1.3 to require transfer vehicle for SMA:*

(2) Use a Material Transfer Vehicle when constructing SMA pavement.

*Add the following to standard spec 450.3.1.5 to prohibit rubber-tire roller on SMA:*

(3) Rubber tired roller shall not be used for compaction of SMA pavement.

*Replace standard spec 460.3.3.1 with the following to specify density requirements for SMA:*

- (1) Compact SMA pavement to 93% of Gmm.
- (2) This value is for average subplot density. Individual density results more than 3.0 percent below the minimum required target density are unacceptable and must be addressed as specified by the engineer.

*Add the following to standard spec 460.3.3.2 to require test strip for SMA:*

- (5) Construct a test strip according to CMM 8-15 to correlate nuclear gauges to pavement cores. Construct the test strip at the beginning of work for each SMA mixture, for each layer and for each thickness. The test strip shall remain in place and become part of the completed pavement when acceptably produced, acceptably compacted and meets finish and smoothness requirements. CMM 8-15 describes the SMA density and volumetric testing tolerances required for the test strip.

#### **D Measurement**

*Add the following to standard spec 460.4:*

- (2) The department will measure HMA Pavement Test Strip as each unit of work, acceptably completed as described in CMM 8-15. Material quantities will be determined according to standard spec 450.4.

#### **E Payment**

*Replace standard spec 460.5.1 with the following:*

The department will pay for measured quantities at the contract unit price under the following bid items:

ITEM NUMBER	DESCRIPTION	UNIT
460.8424	HMA Pavement 4 SMA 58-28 H	TON
460.0100.S	HMA Pavement Test Strip	EACH

Payment for SMA is full compensation for providing SMA mixture designs; for preparing foundation; for volumetric and density testing and aggregate source testing; for asphalt binder from recycled sources, for asphalt binder modification or processes, and addition of



fibers, fines, or filler. Acceptable SMA mixture placed on the project as part of the test strip will be compensated by the appropriate HMA Pavement bid item.

Payment for HMA Pavement Test Strip is full compensation for volumetric and density testing, collection and measurement of pavement cores, provision of nuclear gauges and operator(s), and all other work associated with completion of a core-to-gauge correlation, as directed by the engineer. Acceptable HMA mixture placed on the project as part of the test strip will be compensated by the appropriate HMA Pavement bid item.

Material Transfer Vehicle will be paid for separately.

*Replace standard spec 460.5.2.1 with the following to modify incentive for density for SMA pavements:*

- (1) The department will pay for the SMA Pavement bid items at the contract unit price subject to one or more of the following adjustments:
  1. Disincentive for density of HMA pavement as specified in 460.5.2.2.
    2. Incentive for density of HMA pavement as specified in 460.5.2.3 with the exception that any lot containing an individual density test result > 97.0% Gmm will not be eligible for incentive pay adjustment.
    3. Reduced payment for nonconforming smoothness as specified in 450.3.2.9.
    4. Reduced payment for nonconforming QMP HMA mixtures as specified in 460.2.8.2.1.7.
- (2) Payment for the HMA Pavement bid items is full compensation for providing SMA pavement including binder; for mixture design; for preparing the foundation; and for QMP and aggregate source testing.
- (3) If provided for in the plan quantities, the department will pay for a leveling layer, placed to correct irregularities in an existing paved surface before overlaying, under the pertinent paving bid item.
- (4) The department will administer pay reduction for nonconforming QMP mixture under the Nonconforming QMP HMA Mixture administrative item. The department will reduce pay based on the contract unit price for the HMA Pavement bid item.
- (5) If material is unacceptable as defined in standard spec 460.2.8.2.1.7 as modified here within, the department will pay 80% of the contract unit price for the material from the point where a test is outside the JMF limit until another individual QMP test is within the JMF limits. This pay reduction is not applicable if a pay reduction is applied for nonconforming air voids as detailed in the following paragraph.
- (6) The department will reduce pay for nonconforming QMP HMA mixtures as specified in 460.2.8.2.1.7, starting from the stop point to the point when the running average of 4 is back inside the warning limits. The engineer will determine the quantity of material subject to pay reduction based on the testing data and an inspection of the completed pavement. The department will reduce pay as follows:

ITEM	PAYMENT FOR MIXTURE <sup>[1] [2] [3]</sup>	
	PRODUCED WITHIN WARNING BANDS	PRODUCED OUTSIDE JMF LIMITS
Gradation	90%	75%
Asphalt Content	85%	75%
Air Voids	70%	50%
VMA	90%	75%

<sup>[1]</sup> For projects or plants where the total production of each mixture design requires less than 4 QC tests refer to CMM 8-36.

<sup>[2]</sup> Payment is in percent of the contract unit price for the HMA Pavement bid item. The department will reduce pay based on the nonconforming property with lowest percent pay.

[3] In addition to any pay adjustment listed in the table above and in 460.5.2.1(5), the department will adjust pay for nonconforming binder under the Nonconforming QMP Asphaltic Material administrative item. The department will deduct 25 percent of the contract unit price of the HMA Pavement bid item per ton of pavement placed with nonconforming PG binder the engineer allows to remain in place.

- (7) If the department discovers nonconforming mixture during a QV dispute resolution investigation, and the engineer allows that mixture to remain in place, the department will pay for the quantity of affected material as specified in 460.2.8.3.1.8 at 50 percent of the contract price.
- (8) If the department waives density testing under 460.3.3.3, the department will not adjust pay under either 460.5.2.2 or 460.5.2.3.
- (9) Restore the surface after cutting density samples as specified in 460.3.3.2(1) at no additional cost to the department.

stp-460-030 (20170915)

**85. Material Transfer Vehicle, Item SPV.0105.003.**

**A Description**

This special provision describes furnishing Material Transfer Vehicle (MTV) and an operator for use on this project during HMA upper layer paving operations, as shown in the plans or as directed by the engineer, and as hereinafter provided.

**B Materials**

The MTV shall be self-propelled, remix and maintain constant temperature, and continually feed the paver hopper. The storage capacity shall be adequate to provide continuous forward movement of the paver. The paver speed shall be coordinated to match the delivery of material and capacity of the MTV to limit stopping of the paver.

**C Construction**

An operator shall remain with the vehicle at all times during moving operations and the paver's hopper shall remain full at all times to avoid segregation of coarse aggregates. No placement of HMA upper layer pavement shall be allowed without the use of the MTV.

**D Measurement**

The department will measure Material Transfer Vehicle by the lump sum for each material transfer vehicle.

**E Payment**

The department will pay for measured quantities at the contract unit price under the following bid item:

ITEM NUMBER	DESCRIPTION	UNIT
SPV.0105.003	Material Transfer Vehicle	LS

Payment is full compensation for deploying the equipment and its operator.

**Schedule of Items**

Attached, dated December 7, 2017, are the revised Schedule of Items Pages 1 – 25.

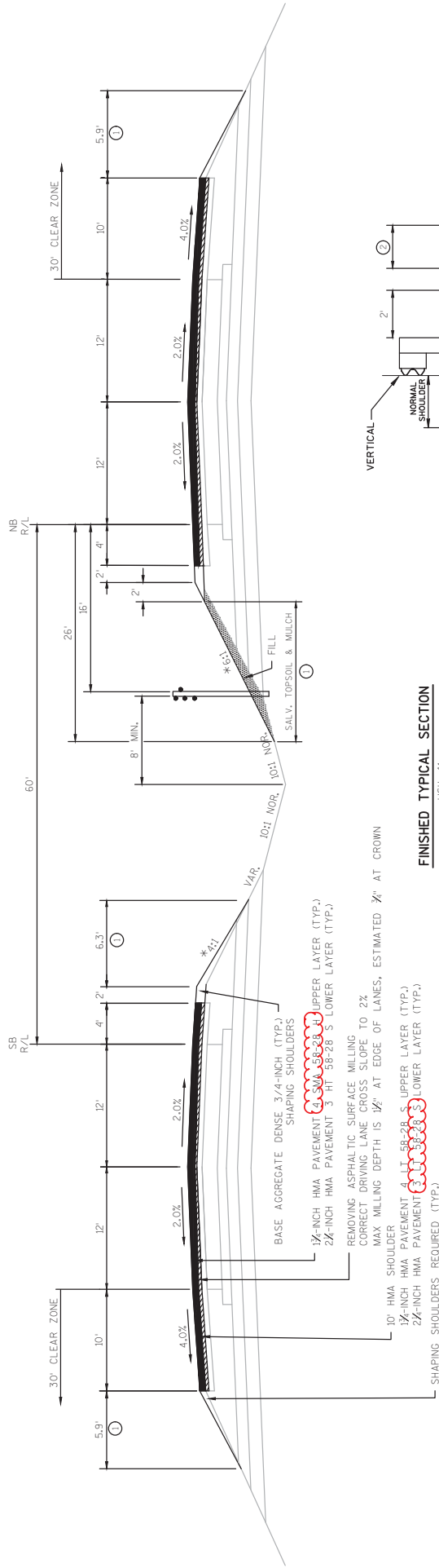
**Plan Sheets**

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

1130-32-71 & 1150-54-71:

Revised: 12, 245, 507, 516, 517, 519, 523, 532, 533, and 535.

END OF ADDENDUM



**FINISHED TYPICAL SECTION**

USH 41  
 STA. B345+00NB - STA. B527+39NB  
 STA. B345+00SB - STA. B546+37SB

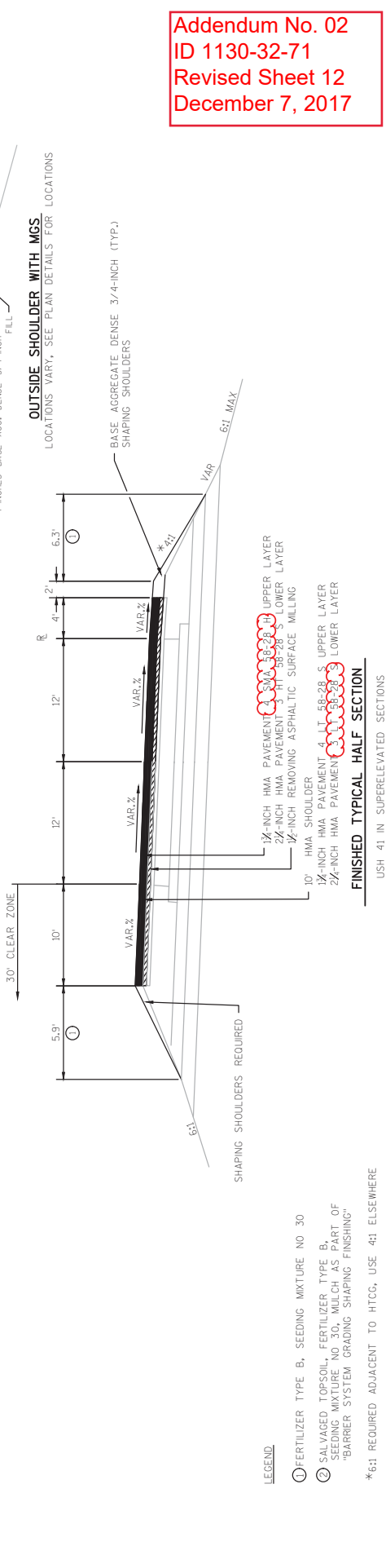
REMOVING ASPHALTIC SURFACE MILLING  
 CORRECT DRIVING LANE CROSS SLOPE TO 2%  
 MAX MILLING DEPTH IS 1 1/2" AT EDGE OF LANES, ESTIMATED 3/4" AT CROWN

10" HMA SHOULDER  
 4 LT. 5B-2B S. UPPER LAYER (TYP.)  
 2 1/2-INCH HMA PAVEMENT 3 LT. 5B-2B S. LOWER LAYER (TYP.)

BASE AGGREGATE DENSE 3/4-INCH (TYP.)  
 SHAPING SHOULDERS

1 1/2-INCH HMA PAVEMENT 3 LT. 5B-2B S. UPPER LAYER (TYP.)  
 2 1/2-INCH HMA PAVEMENT 3 LT. 5B-2B S. LOWER LAYER (TYP.)

SHAPING SHOULDERS REQUIRED (TYP.)



**OUTSIDE SHOULDER WITH MGS**

LOCATIONS VARY, SEE PLAN DETAILS FOR LOCATIONS

BASE AGGREGATE DENSE 3/4-INCH (TYP.)  
 SHAPING SHOULDERS

10" HMA SHOULDER  
 4 LT. 5B-2B S. UPPER LAYER  
 2 1/2-INCH HMA PAVEMENT 3 LT. 5B-2B S. LOWER LAYER

1 1/2-INCH HMA PAVEMENT 3 LT. 5B-2B S. UPPER LAYER  
 2 1/2-INCH HMA PAVEMENT 3 LT. 5B-2B S. LOWER LAYER

REMOVING ASPHALTIC SURFACE MILLING

SHAPING SHOULDERS REQUIRED

**FINISHED TYPICAL HALF SECTION**

USH 41 IN SUPERELEVATED SECTIONS

SOUTHBOUND ROADWAY IS SHOWN, MIRROR SECTION FOR NORTHBOUND  
 MATCH EXISTING SUPERELEVATION CROSS SLOPE AND TRANSITION DISTANCES

LEGEND

- 1 FERTILIZER TYPE B, SEEDING MIXTURE NO 30
- 2 SALVAGED TOPSOIL, FERTILIZER TYPE B, SEEDING MIXTURE NO 30, MULCH AS PART OF "BARRIER" SYSTEM GRADING SHAPING FINISHING

\*6:1 REQUIRED ADJACENT TO HTCC, USE 4:1 ELSEWHERE

**Addendum No. 02**  
**ID 1130-32-71**  
**Revised Sheet 12**  
**December 7, 2017**

**HOT MIX ASPHALT (HMA)**

STA	STA	LOCATION	REHEATING LONGITUDINAL JOINTS LF	HMA PAVEMENT 3LT 58-28S TON	HMA PAVEMENT 4LT 58-28S TON	HMA PAVEMENT 3HT 58-28S TON	HMA PAVEMENT 4 SMA 58-28H TON	TACK COAT GAL	REMARKS
30+46	32+71	HARBOR LIGHTS	--	75	75	--	--	53	
34+99	37+23	HARBOR LIGHTS	--	75	75	--	--	53	
		<b>SUBTOTAL</b>	--	150	150	--	--	106	
1345+00	1458+19	NB USH 41	22,638	1,590	1,230	4,440	3,455	6,692	
1460+13	1472+31	NB USH 41	2,436	175	135	480	375	720	
1474+09	1491+37	NB USH 41	3,456	245	190	680	530	1,022	
1493+34	1527+39	NB USH 41	6,810	480	375	1,335	1,040	2,014	
1460+10NB	612+50SE	SE RAMP	600	160	206	--	--	201	
616+8BNE	1497+00NB	NE RAMP	940	220	407	--	--	380	
		<b>NB SUBTOTAL</b>	36,880	2,870	2,545	6,935	5,400	11,029	
1345+00	1458+56	SB USH 41	22,712	1,592	1,238	4,460	3,470	6,714	
1460+50	1472+17	SB USH 41	2,334	166	129	460	360	690	
1473+91	1490+50	SB USH 41	3,336	236	184	655	505	982	
1492+45	1546+37	SB USH 41	10,784	760	590	2,120	1,650	3,188	
1460+75SB	606+00SW	SW RAMP	2,520	270	210	--	--	170	
609+60NW	1488+50SB	NW RAMP	1,500	270	340	--	--	358	
		<b>SB SUBTOTAL</b>	43,168	3,294	2,691	7,695	5,985	12,102	
		<b>NORFIELD UNDISTRIBUTED</b>	--	30	84	--	--	763	2-IN MILL & FILL
		<b>PROJECT TOTALS</b>	85,000	6,450	5,500	14,675	11,500	24,000	

Addendum No. 02  
ID 1130-32-71  
Revised Sheet 245  
December 7, 2017

HMA  
PAVEMENT  
TEST STRIP  
460.0100.S

DESCRIPTION  
PROJECT ID 1130-32-71

EACH  
1

**GENERAL NOTES**

DRAWINGS SHALL NOT BE SCALED.

DIMENSIONS SHOWN ARE BASED ON THE ORIGINAL STRUCTURE PLANS. ALIGNMENT AND ELEVATION DATA SHOWN IS BASED ON THE ORIGINAL STRUCTURE PLANS. STRUCTURE ALIGNMENT DATA IS DIFFERENT FROM ROADWAY ALIGNMENT DATA SHOWN ON ROADWAY PLANS.

ALL DIMENSIONS ARE IN FEET AND INCHES.

ALL STATIONS AND ELEVATIONS ARE IN FEET.

THE FIRST OR FIRST TWO DIGITS OF A BAR MARK SIGNIFIES THE BAR SIZE. DIMENSIONS FOR BENDING ARE OUT TO OUT OF BAR.

BAR STEEL REINFORCEMENT SHALL BE EMBEDDED 2' CLEAR UNLESS OTHERWISE SHOWN OR NOTED.

BEVEL EXPOSED EDGES OF CONCRETE 3/4" UNLESS OTHERWISE NOTED.

AT THE BACKFACE OF ABUTMENTS, ALL EXCAVATED VOLUME NOT OCCUPIED BY THE NEW STRUCTURE SHALL BE BACKFILLED WITH BACKFILL STRUCTURE.

ALL CONCRETE REMOVAL SHALL BE DEFINED BY A 1-INCH DEEP SAW CUT.

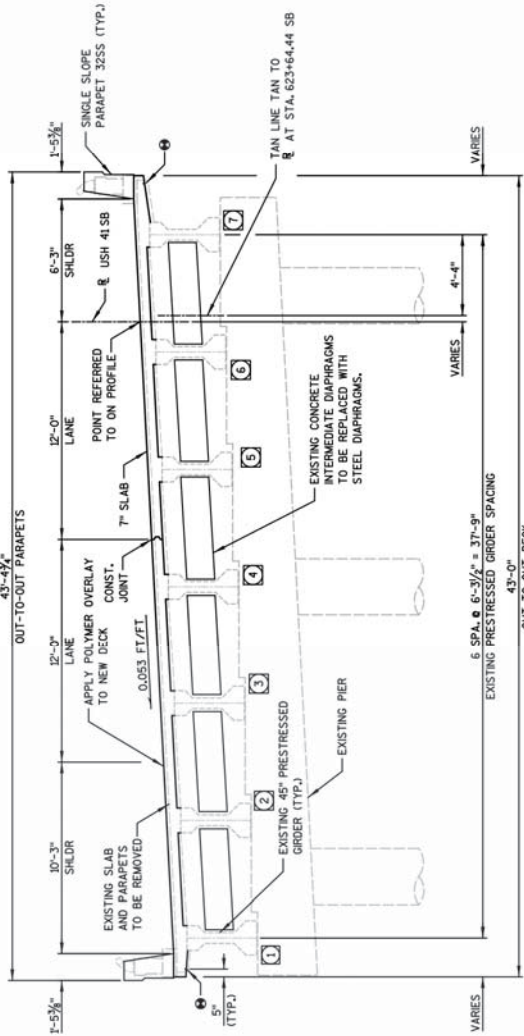
UTILIZE EXISTING BAR STEEL REINFORCEMENT WHERE SHOWN AND EXTEND 24 BAR DIAMETERS INTO NEW WORK, UNLESS SPECIFIED OTHERWISE.

VARIATIONS TO THE NEW GRADE LINE OVER 1/4" MUST BE SUBMITTED BY THE FIELD ENGINEER TO THE STRUCTURES DESIGN SECTION FOR REVIEW.

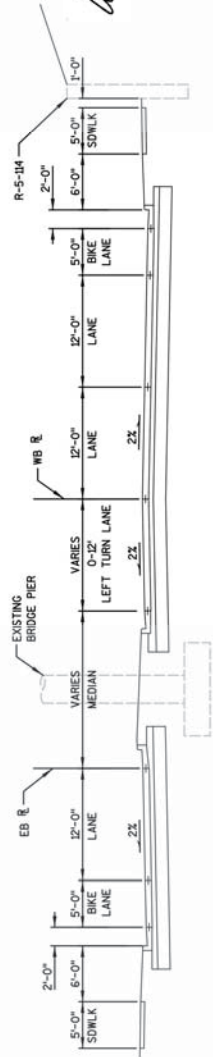
THE EXISTING CONCRETE DECK, PARAPETS, AND ABUTMENT AND PIER DIAPHRAGMS SHALL BE REMOVED IN STAGES IN ACCORDANCE WITH THE STAGING PLANS SHOWN.

THE HAUNCH CONCRETE QUANTITY IS BASED ON AN AVERAGE HAUNCH OF 2 3/4".

THE CONTRACTOR SHALL SUPPLY A NEW NAME PLATE IN ACCORDANCE WITH SECTION 502.3.11 OF THE STANDARD SPECIFICATIONS AND THE STANDARD DETAIL DRAWINGS. NAME PLATE TO SHOW ORIGINAL CONSTRUCTION YEAR.



TYPICAL SECTION  
LOOKING NORTH



PROPOSED TYPICAL SECTION CTH B  
LOOKING WEST

**TOTAL ESTIMATED QUANTITIES**

NO.	DESCRIPTION	UNIT	SOUTH ABUT.	PIER	NORTH ABUT.	SUPERS.	TOTAL
203.0000	REMOVING OLD STRUCTURE STA. 622+00 TO 623+00	LS	-	-	-	-	-
203.0000	ABATEMENT OF ASPHALTS CONTAINING MATERIAL STRUCTURE B-09-0076	LS	-	-	-	-	-
203.0225-S	DEBRIS CONTAINMENT B-09-0076	LS	-	-	-	-	-
206.1000	EXCAVATION FOR STRUCTURES BRIDGES B-05-0076	TON	86	-	88	-	174
502.0000	BACKFILL STRUCTURE TYPE A	CY	8	-	9	-	17
502.0000	CONCRETE MASONRY BRIDGES	CU	-	-	-	-	-
502.1000	CONCRETE MASONRY ELEMENT	CU	-	-	-	-	-
502.1000	PROMOTED SURFACE SEALER	SY	11	-	11	-	22
502.4005	ADHESIVE ANCHORS 5/8-INCH	EACH	72	-	74	-	146
502.4205	ADHESIVE ANCHORS NO. 5 BAR	EACH	920	-	950	-	1870
505.0600	BAR STEEL REINFORCEMENT HIS COATED STRUCTURES	LB	-	-	-	-	-
505.0904	BAR COUPLERS NO. 4	EACH	-	-	-	-	-
505.0906	BAR COUPLERS NO. 6	EACH	-	-	-	-	-
506.4000	STEEL DIAPHRAGMS B-05-0076	EACH	-	-	-	-	-
509.1500	CONCRETE SURFACE REPAIR	SF	30	7	30	-	67
509.1500-S	POLYMER OVERLAY	SF	-	-	-	-	-
510.2000	TEMPORARY SHORING B-05-0076	SF	74	-	78	-	152
510.2000	TEMPORARY SHORING	SF	2	-	2	-	4
514.0350	ANCHOR ASSEMBLIES FOR STEEL PLATE BEAM GUARD	EACH	2	-	2	-	4
5PV.0035-01	CONCRETE SURFACE REPAIR CORROSION INHIBITING ADMIXTURE NON-BID ITEMS	CY	0.1	-	0.1	-	0.2
	FILLER	SIZE					1 1/2" & 3/4"

\* COORDINATE CONCRETE SURFACE REPAIR AREAS WITH FIELD ENGINEER.



**LEGEND**

Y-GROOVE. EXTEND Y-GROOVE TO THE FILLET ADJACENT TO THE ABUTMENTS.

INDICATES ORDER NUMBER

ELEVATIONS SHOWN = ORIGINAL STRUCTURE PLAN ELEVATION - 1/2" MILL + 4" OVERLAY (= NET 2 1/2" INCREASE)



PROFILE GRADE USH 41 SB

Addendum No. 02  
ID 1130-32-71  
Revised Sheet 507  
December 7, 2017

**LEGEND**

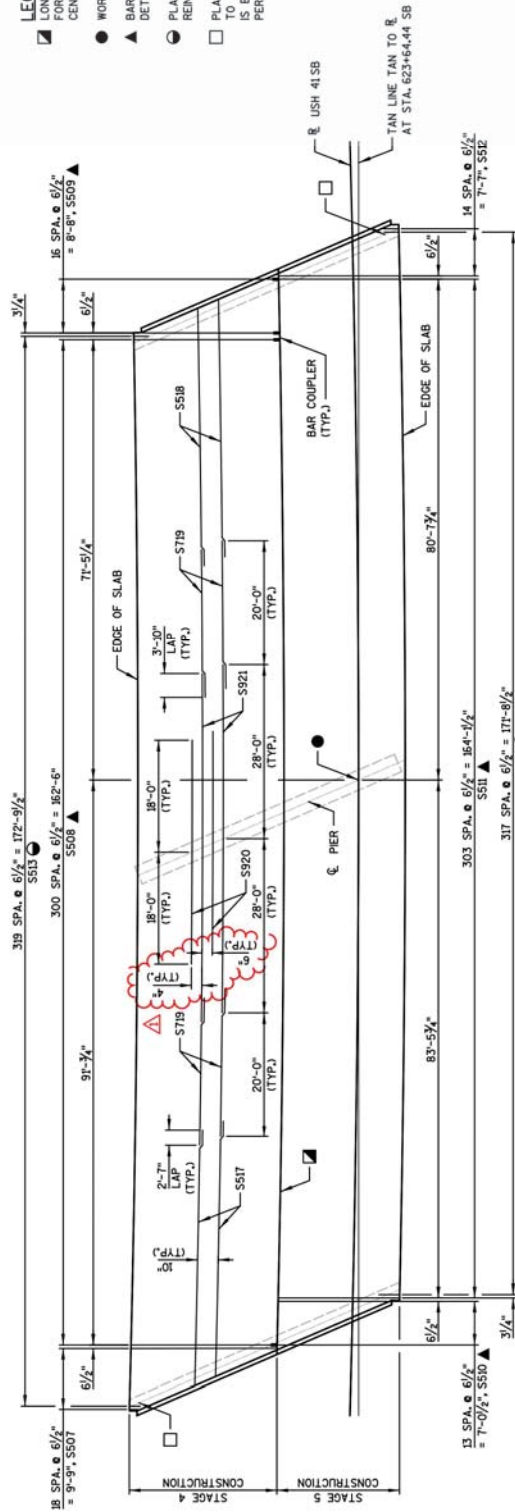
- ▣ LONGITUDINAL CONSTRUCTION JOINT KEYWAY FORMED BY A SURFACE BEVELED 2"x2", CENTER KEYWAY BETWEEN MATS.
- WORKING POINT STA. 623+64.44 SB.
- ▲ BAR WITH COUPLER, SEE SHEET 14 FOR DETAIL, TYPICAL ALONG CONSTRUCTION JOINT.
- PLACE BARS BETWEEN TOP MAT TRANSVERSE REINFORCEMENT BARS.
- PLACE HOOKED BARS (SS13, SS14) PARALLEL TO  $\bar{\epsilon}$  OF BRIDGE ABUTMENT UNTIL THERE IS SUFFICIENT CLEAR EDGE DISTANCE TO PLACE PERPENDICULAR TO GRABER  $\bar{\epsilon}$ .

Addendum No. 02  
ID 1130-32-71  
Revised Sheet 516  
December 7, 2017

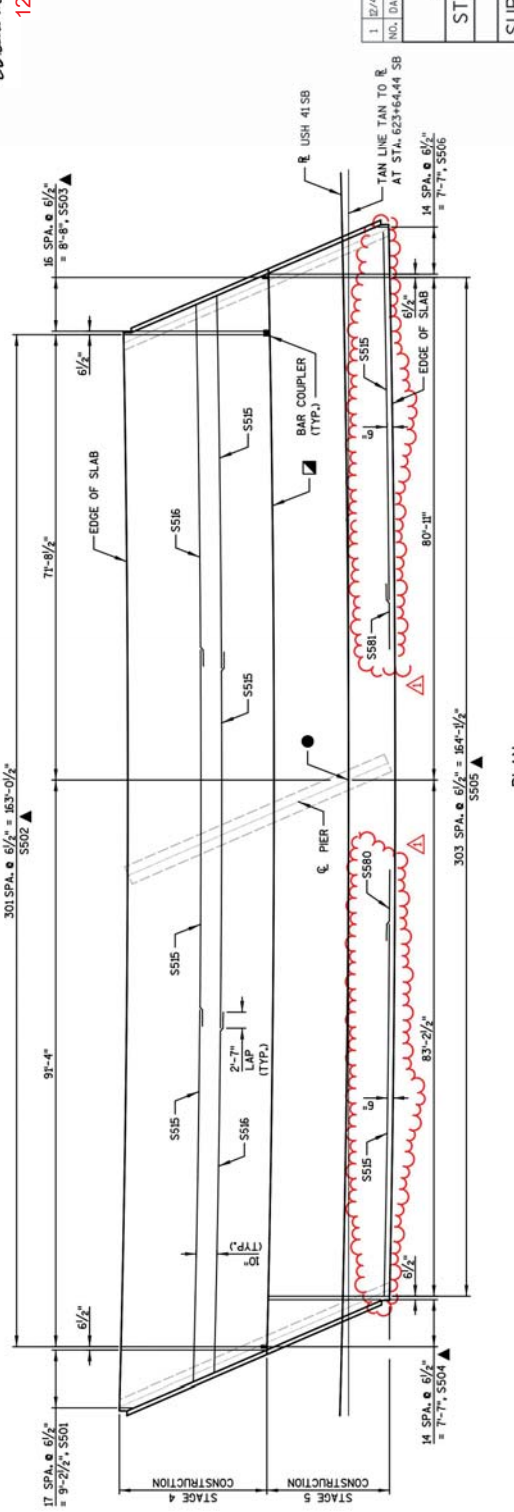
*William C. Decker*  
12/05/17



1	12/14/17	REVISION	KRB
NO. DATE		BY	
STATE OF WISCONSIN DEPARTMENT OF TRANSPORTATION STRUCTURES DESIGN SECTION			
STRUCTURE B-05-76			
DESIGN	DTH	SLABS	ADW
SUPERSTRUCTURE REINFORCING			SHEET 11 OF 16
REINFORCING PLAN			516

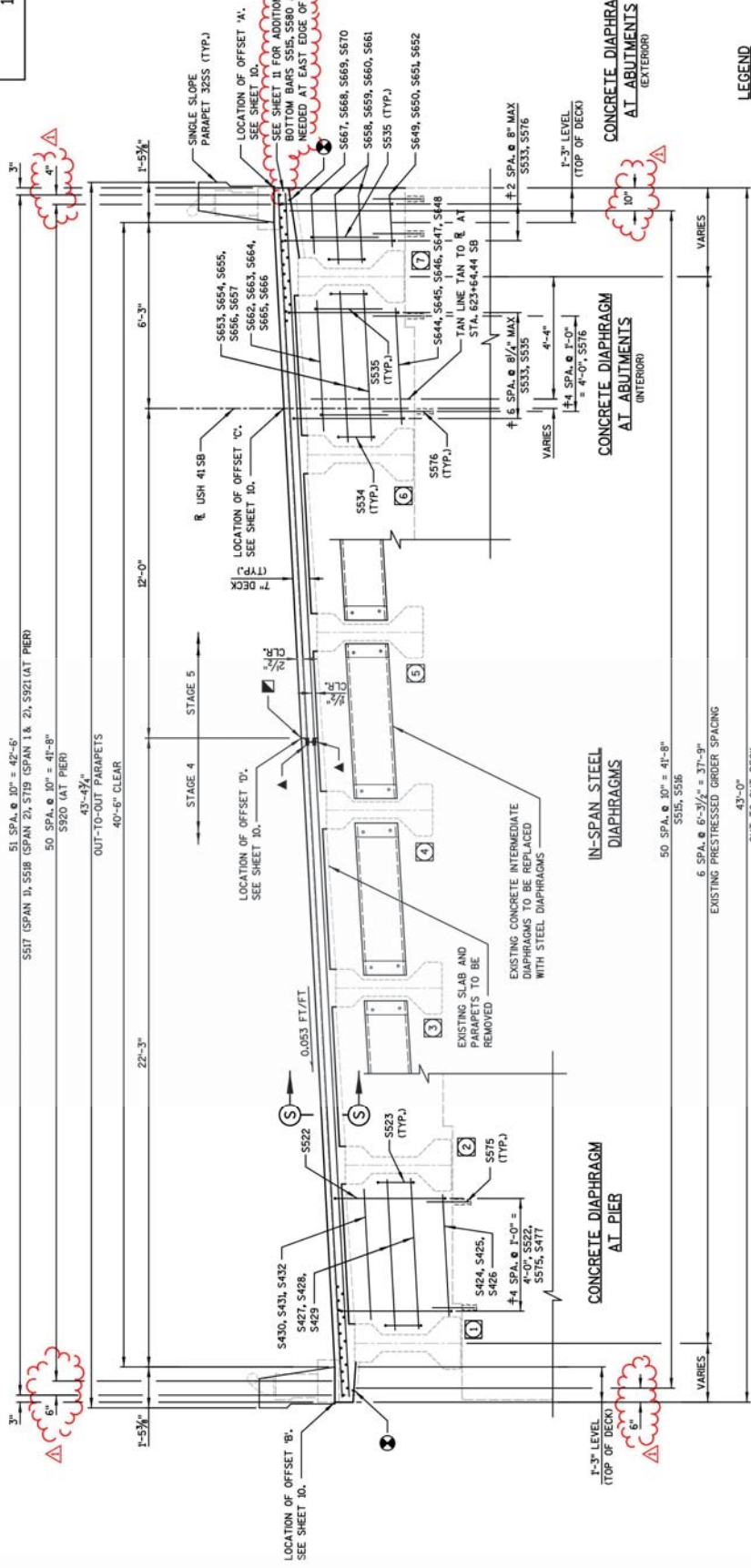


**PLAN**  
(SHOWING TOP MAT SLAB REINFORCING)



**PLAN**  
(SHOWING BOTTOM MAT SLAB REINFORCING)

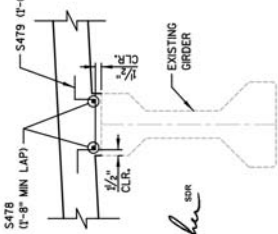
Addendum No. 02  
ID 1130-32-71  
Revised Sheet 517  
December 7, 2017



INDICATES ORDER NUMBER.

- LONGITUDINAL CONSTRUCTION JOINT KEYWAY FINISHED BY A BAR SPACING OF 2' X 2'.
- LONGITUDINAL CONSTRUCTION JOINT KEYWAY CENTER KEYWAY BETWEEN MATS.
- V-GROOVE, EXTEND V-GROOVE TO THE FILLET ADJACENT TO THE ABUTMENTS. LOCATE 5" FROM EDGE OF DECK.
- BAR COUPLER, SEE SHEET 14 FOR DETAIL.
- BAR PLACED PARALLEL TO ORDERS. SPACING PERPENDICULAR TO ORDERS.

CROSS SECTION THRU DECK (LOOKING NORTH)

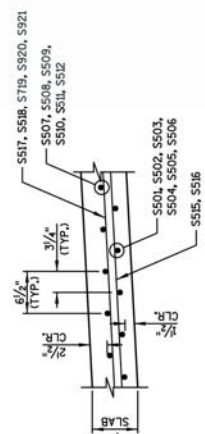


DETAIL A



*William C. Decker*  
12/05/17

WHERE THE SPACING OF EXISTING SHEAR CONNECTORS IS EQUAL TO OR LESS THAN 1'-0", SPACING OF THE #4 HAT BARS TO MATCH WHERE THE SPACING OF THE EXISTING SHEAR CONNECTORS IS MORE THAN 1'-0". SPACING OF #4 HAT BARS TO BE 1'-0".



SECTION S-S

NO.	DATE	REVISION	KRB	BY
1	12/4/17	SUPERSTRUCTURE REINF.		

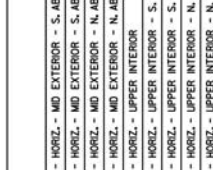
  

STATE OF WISCONSIN	
DEPARTMENT OF TRANSPORTATION	
STRUCTURES DESIGN SECTION	
STRUCTURE B-05-76	DOWN DTH
SUPERSTRUCTURE SECTION	
SHEET 12 OF 16	
517	

**BAR COUPLER NOTES**  
STEEL COUPLER ASSEMBLY SHALL BE AN APPROVED TYPE AND SHALL DEVELOP IN TENSION AT LEAST 125% OF THE YIELD STRENGTH OF THE SPLICED REINFORCEMENT BARS.  
DOWEL BAR SPLICERS (COUPLERS) SHALL MEET THE DEFORMING REQUIREMENTS FOR STANDARD ASTM DEFORMED REINFORCING BARS.  
SPLICER (COUPLER) ASSEMBLIES SHALL BE EPOXY COATED IN ACCORDANCE WITH THE REQUIREMENTS FOR REINFORCEMENT BARS.  
OTHER SYSTEMS OF SIMILAR DESIGN MAY BE SUBMITTED TO THE ENGINEER FOR APPROVAL. ALL DETAILS SHALL BE BASED ON THE TEST RESULTS FROM AN APPROVED LABORATORY AND SHALL MEET THE DEFORMING REQUIREMENTS FOR THE SPLICER.  
COUPLER ASSEMBLY SATISFIES THE FOLLOWING REQUIREMENTS:  
① MINIMUM CAPACITY =  $1.25 \times f_y \times \text{AREA OF SPLICED REINFORCEMENT BAR}$ .  
WHERE  $f_y$  = YIELD STRENGTH OF SPLICED REINFORCEMENT BARS.



**BAR COUPLER DETAIL**  
BAR LENGTHS HAVE BEEN COMPUTED TO BE OF CONSTRUCTION JOINT AND SHALL BE ADAPTED TO BAR COUPLER MANUFACTURER RECOMMENDATIONS.



**INSTALLATION AND SETTING METHODS**  
"A" SET SPLICER BY MEANS OF A TEMPLATE BOLT  
CEMENTING TO STEEL FORMS.

BAR COUPLER DETAIL  
S502, S503, S508, S509, S425, S428, S431, S636, S638, S640, S642, S645, S647, S654, S656, S653, S665

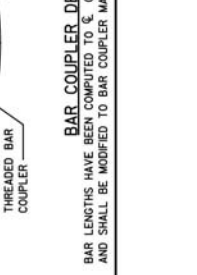
KEY:  $\triangle$  BAR SERIES; SEE TABLE THIS SHEET.  
 $\blacktriangledown$  BAR WITH COUPLER. SEE THIS SHEET FOR DETAILS.

STATE OF WISCONSIN  
DEPARTMENT OF TRANSPORTATION  
STRUCTURES DESIGN SECTION  
STRUCTURE B-05-76  
SUPERSTRUCTURE  
DETAILS - 2  
SHEET 14 OF 16  
519

**COATED: 84,100 LBS**

**SUPERSTRUCTURE BILL OF BARS**

MARK	NO. REOD	LENGTH	COAT	LOCATION
S501	18	23'-4"	X	SLAB - TRANSVERSE - BOTTOM - STAGE 4
S502	302	12'-4"	X	SLAB - TRANSVERSE - BOTTOM - STAGE 4
S503	17	12'-4"	X	SLAB - TRANSVERSE - BOTTOM - STAGE 4
S504	15	9'-5"	X	SLAB - TRANSVERSE - BOTTOM - STAGE 5
S505	304	19'-4"	X	SLAB - TRANSVERSE - BOTTOM - STAGE 5
S506	15	10'-6"	X	SLAB - TRANSVERSE - BOTTOM - STAGE 5
S507	19	12'-4"	X	SLAB - TRANSVERSE - TOP - STAGE 4
S508	301	23'-4"	X	SLAB - TRANSVERSE - TOP - STAGE 4
S509	17	12'-4"	X	SLAB - TRANSVERSE - TOP - STAGE 4
S510	14	9'-5"	X	SLAB - TRANSVERSE - TOP - STAGE 5
S511	304	19'-4"	X	SLAB - TRANSVERSE - TOP - STAGE 5
S512	15	10'-10"	X	SLAB - TRANSVERSE - TOP - STAGE 5
S513	320	9'-5"	X	SLAB - TRANSVERSE HOOK - TOP - STAGE 4
S514	318	5'-7"	X	SLAB - TRANSVERSE HOOK - TOP - STAGE 5
S515	56	48	X	SLAB - LONGITUDINAL - BOTTOM
S516	28	21	X	SLAB - LONGITUDINAL - BOTTOM
S517	28	24	X	SLAB - LONGITUDINAL - TOP - SPAN 1
S518	28	24	X	SLAB - LONGITUDINAL - TOP - SPAN 2
S519	56	48	X	SLAB - LONGITUDINAL - TOP - SPANS 1 & 2
S520	28	23	X	SLAB - LONGITUDINAL - TOP - AT PIER
S521	28	24	X	SLAB - LONGITUDINAL - TOP - AT PIER
S522	17	13	X	PIER DIAPHRAGM - VERT.
S523	7	11'-3"	X	PIER DIAPHRAGM - VERT.
S524	6	4'-6"	X	PIER DIAPHRAGM - HORIZ. - LOWER
S525	2	1'-11"	X	PIER DIAPHRAGM - HORIZ. - LOWER - STAGE 4
S526	2	2'-7"	X	PIER DIAPHRAGM - HORIZ. - LOWER - STAGE 5
S527	12	5'-10"	X	PIER DIAPHRAGM - HORIZ. - MID
S528	4	3'-2"	X	PIER DIAPHRAGM - HORIZ. - MID - STAGE 4
S529	16	5'-0"	X	PIER DIAPHRAGM - HORIZ. - UPPER
S530	8	2'-2"	X	PIER DIAPHRAGM - HORIZ. - UPPER - STAGE 4
S531	8	2'-10"	X	PIER DIAPHRAGM - HORIZ. - UPPER - STAGE 5
S532	52	44	X	ABUT. DIAPHRAGM - VERT.
S533	16	12'-10"	X	ABUT. DIAPHRAGM - VERT.
S534	12	7'-10"	X	ABUT. DIAPHRAGM - VERT. - ADJACENT TO ORDERS
S535	48	40	X	ABUT. DIAPHRAGM - VERT. - PAVING NOTCH
S536	2	24'-4"	X	ABUT. DIAPHRAGM - HORIZ. - PAVING NOTCH - S. ABUT - STAGE 4
S537	2	19'-11"	X	ABUT. DIAPHRAGM - HORIZ. - PAVING NOTCH - S. ABUT - STAGE 5
S538	2	23'-10"	X	ABUT. DIAPHRAGM - HORIZ. - PAVING NOTCH - N. ABUT - STAGE 4
S539	2	19'-6"	X	ABUT. DIAPHRAGM - HORIZ. - PAVING NOTCH - N. ABUT - STAGE 5
S540	6	24'-9"	X	ABUT. DIAPHRAGM - HORIZ. - LONGITUDINAL - S. ABUT - STAGE 4
S541	6	21'-3"	X	ABUT. DIAPHRAGM - HORIZ. - LONGITUDINAL - S. ABUT - STAGE 5
S542	6	25'-2"	X	ABUT. DIAPHRAGM - HORIZ. - LONGITUDINAL - N. ABUT - STAGE 4
S543	6	20'-0"	X	ABUT. DIAPHRAGM - HORIZ. - LONGITUDINAL - N. ABUT - STAGE 5
S544	6	4'-6"	X	ABUT. DIAPHRAGM - HORIZ. - LOWER INTERIOR
S545	1	10'-2"	X	ABUT. DIAPHRAGM - HORIZ. - LOWER INTERIOR - S. ABUT - STAGE 4
S546	1	3'-8"	X	ABUT. DIAPHRAGM - HORIZ. - LOWER INTERIOR - S. ABUT - STAGE 5
S547	1	1'-1"	X	ABUT. DIAPHRAGM - HORIZ. - LOWER INTERIOR - N. ABUT - STAGE 4
S548	1	3'-5"	X	ABUT. DIAPHRAGM - HORIZ. - LOWER INTERIOR - N. ABUT - STAGE 5
S549	1	2'-0"	X	ABUT. DIAPHRAGM - HORIZ. - LOWER EXTERIOR - S. ABUT - STAGE 4
S550	1	1'-6"	X	ABUT. DIAPHRAGM - HORIZ. - LOWER EXTERIOR - S. ABUT - STAGE 5
S551	1	1'-3"	X	ABUT. DIAPHRAGM - HORIZ. - LOWER EXTERIOR - N. ABUT - STAGE 4
S552	1	1'-4"	X	ABUT. DIAPHRAGM - HORIZ. - LOWER EXTERIOR - N. ABUT - STAGE 5
S553	12	6	X	ABUT. DIAPHRAGM - HORIZ. - MID INTERIOR - S. ABUT - STAGE 4
S554	2	4'-4"	X	ABUT. DIAPHRAGM - HORIZ. - MID INTERIOR - S. ABUT - STAGE 5
S555	2	1'-9"	X	ABUT. DIAPHRAGM - HORIZ. - MID INTERIOR - N. ABUT - STAGE 4
S556	2	4'-1"	X	ABUT. DIAPHRAGM - HORIZ. - MID INTERIOR - N. ABUT - STAGE 5



**INSTALLATION AND SETTING METHODS**  
"A" SET SPLICER BY MEANS OF A TEMPLATE BOLT  
CEMENTING TO STEEL FORMS.

BAR COUPLER DETAIL  
S502, S503, S508, S509, S425, S428, S431, S636, S638, S640, S642, S645, S647, S654, S656, S53, S665

KEY:  $\triangle$  BAR SERIES; SEE TABLE THIS SHEET.  
 $\blacktriangledown$  BAR WITH COUPLER. SEE THIS SHEET FOR DETAILS.

STATE OF WISCONSIN  
DEPARTMENT OF TRANSPORTATION  
STRUCTURES DESIGN SECTION  
STRUCTURE B-05-76  
SUPERSTRUCTURE  
DETAILS - 2  
SHEET 14 OF 16  
519

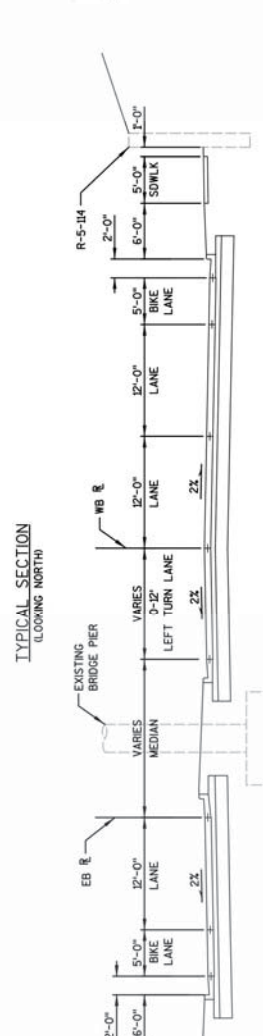
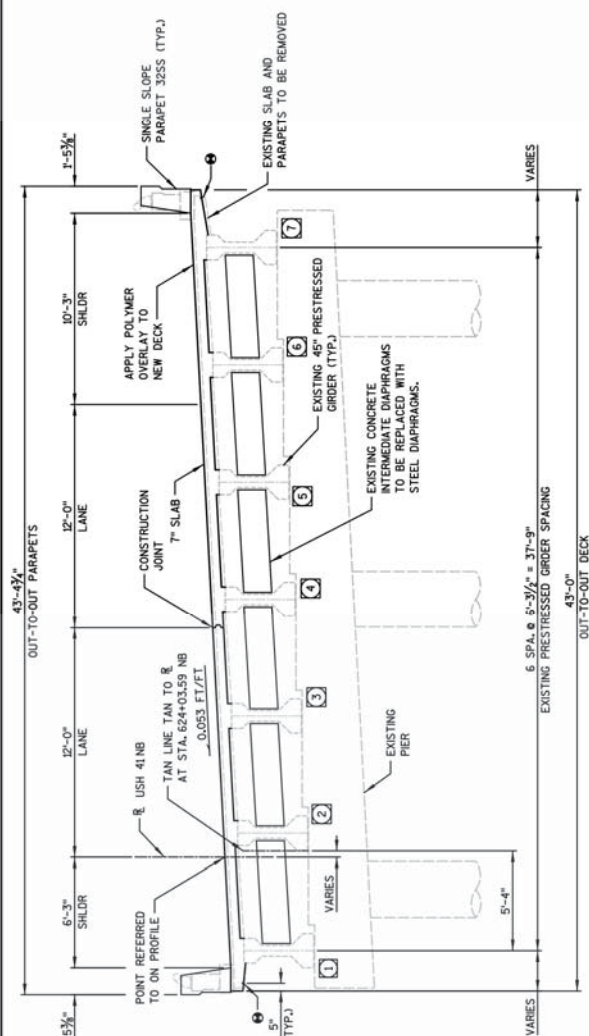
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12/05/17  
Addendum No. 02  
ID 1130-32-71  
Revised Sheet 519  
December 7, 2017

Keith R. Behrend  
PROFESSIONAL ENGINEER  
E-42073  
MADISON WI  
12/14/2017



**GENERAL NOTES**

- DRAWINGS SHALL NOT BE SCALED.
- DIMENSIONS SHOWN ARE BASED ON THE ORIGINAL STRUCTURE PLANS.
- ALIGNMENT AND ELEVATION DATA SHOWN IS BASED ON THE ORIGINAL STRUCTURE PLANS. STRUCTURE ALIGNMENT DATA IS DIFFERENT FROM ROADWAY ALIGNMENT DATA SHOWN ON ROADWAY PLANS.
- ALL DIMENSIONS ARE IN FEET AND INCHES.
- ALL STATIONS AND ELEVATIONS ARE IN FEET.
- EXISTING SLAB AND PARAPETS TO BE REMOVED
- BAR STEEL REINFORCEMENT SHALL BE EMBEDDED 2" CLEAR UNLESS OTHERWISE SHOWN OR NOTED.
- BEVEL EXPOSED EDGES OF CONCRETE 3/4" UNLESS OTHERWISE NOTED.
- AT THE BACKFACE OF ABUTMENTS, ALL EXCAVATED VOLUME NOT OCCUPIED BY THE NEW STRUCTURE SHALL BE BACKFILLED WITH BACKFILL STRUCTURE.
- ALL CONCRETE REMOVAL SHALL BE DEFINED BY A 1-INCH DEEP SAW CUT.
- UTILIZE EXISTING BAR STEEL REINFORCEMENT WHERE SHOWN AND EXTEND 24 BAR DIAMETERS INTO NEW WORK, UNLESS SPECIFIED OTHERWISE.
- VARIATIONS TO THE NEW GRADE LINE OVER 1/4" MUST BE SUBMITTED BY THE FIELD ENGINEER TO THE STRUCTURES DESIGN SECTION FOR REVIEW.
- THE EXISTING CONCRETE DECK, PARAPETS, AND ABUTMENT AND PIER DIAPHRAGMS SHALL BE REMOVED IN STAGES IN ACCORDANCE WITH THE STAGING PLANS SHOWN.
- THE HAUNCH CONCRETE QUANTITY IS BASED ON AN AVERAGE HAUNCH OF 2%.
- THE CONTRACTOR SHALL SUPPLY A NEW NAME PLATE IN ACCORDANCE WITH SECTION 502.31 OF THE STANDARD SPECIFICATIONS AND THE STANDARD DETAIL DRAWINGS. NAME PLATE TO SHOW ORIGINAL CONSTRUCTION YEAR.



PROPOSED TYPICAL SECTION CTH B  
(LOOKING WEST)

**TOTAL ESTIMATED QUANTITIES**

NO.	DESCRIPTION	UNIT	SOUTH ABUT.	PIER	NORTH ABUT.	SUPERS.	TOTAL
203.0200	REMOVING OLD STRUCTURE STA 622+50.00 NB	LS	-	-	-	-	1
203.0205	ABATEMENT OF ASBESTOS CONTAINING MATERIAL STRUCTURE B-05-0077	LS	-	-	-	-	1
203.0225.S	DEBRIS CONTAINMENT B-05-0077	LS	-	-	-	-	1
206.0000	EXCAVATION FOR STRUCTURES BRIDGES B-05-0077	TON	86	-	84	-	170
210.0500	BACKFILL STRUCTURE TYPE A	CY	8	-	9	-	262
502.0000	CONCRETE MASONRY BRIDGES	CY	8	-	9	-	803
502.3200	PROTECTIVE SURFACE TREATMENT	SY	11	-	11	-	168
502.3300	POLYURETHANE SURFACE SEALER	SY	11	-	11	-	170
502.4205	ADHESIVE ANCHORS NO. 5 BAR	EACH	72	-	74	-	146
505.0600	BAR STEEL REINFORCEMENT HS COATED STRUCTURES	LB	910	-	950	-	8,742.0
505.0904	BAR COUPLERS NO. 4	EACH	-	-	-	-	8,820
505.0905	BAR COUPLERS NO. 5	EACH	-	-	-	-	655
505.0906	BAR COUPLERS NO. 6	EACH	-	-	-	-	24
506.4000	STEEL DIAPHRAGMS B-05-0077	EACH	-	-	-	-	24
509.0500	CONCRETE SURFACE REPAIR	SF	4	13	30	-	47
511.0205	TEMPORARY CURBING	SF	72	-	74	-	803
516.0500	RUBBERIZED MEMBRANE WATERPROOFING	SY	14	-	14	-	146
516.0500	ANCHOR ASSEMBLIES FOR STEEL PLATE BEAM GUARD	EACH	2	-	2	-	4
SPV.0035.01	CONCRETE SURFACE REPAIR CORROSION INHIBITING ADMIXTURE	CY	0.1	0.1	0.2	-	0.4
	FILLER	NON-BID ITEMS					1/2" x 3/4"
	CONCRETE SURFACE REPAIR AREAS WITH FIELD ENGINEER.						

*William C. Dehn*  
12/05/17



ELEVATIONS SHOWN = ORIGINAL STRUCTURE ELEVATION  
(= NET 2/2" INCREASE)



PROFILE GRADE USH 41NB

Addendum No. 02  
ID 1130-32-71  
Revised Sheet 523  
December 7, 2017

1	12/4/17	REVISION	NO.	DATE	BY
SUPERSTRUCTURE REINFORCEMENT					
STATE OF WISCONSIN DEPARTMENT OF TRANSPORTATION STRUCTURES DESIGN SECTION					
STRUCTURE B-05-77					
DRAWN BY: DTH					
CHECKED BY: ADW					
SHEET 2 OF 16					
NOTES					
523					

Addendum No. 02  
 ID 1130-32-71  
 Revised Sheet 532  
 December 7, 2017

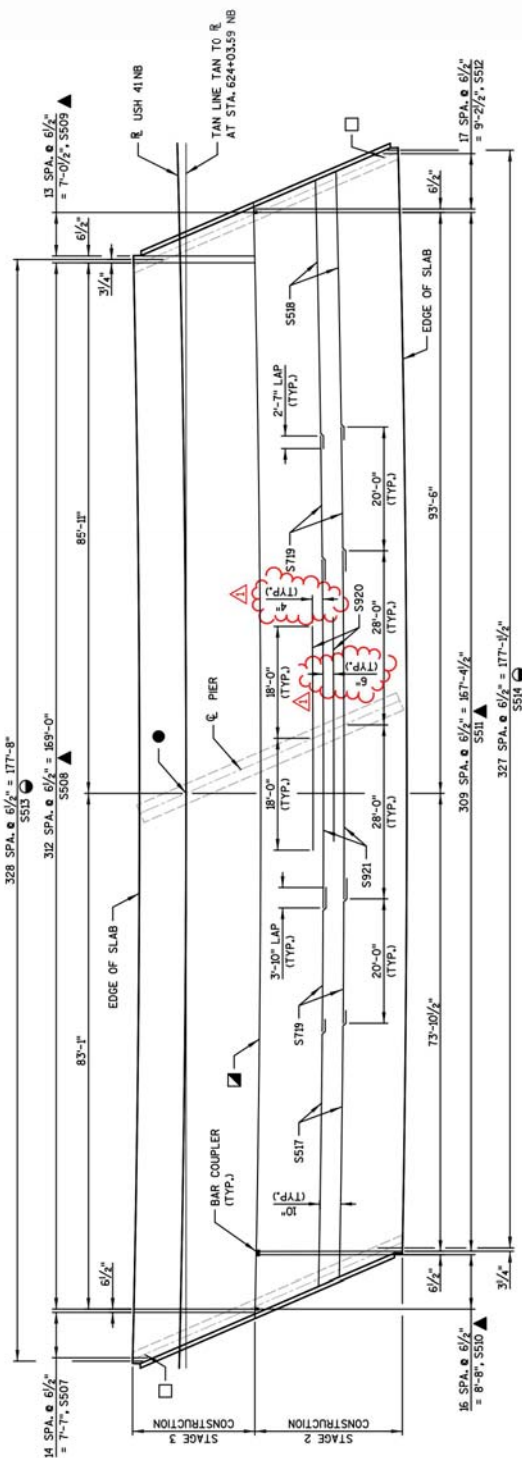
*William C. DeLuca*  
 12/05/17



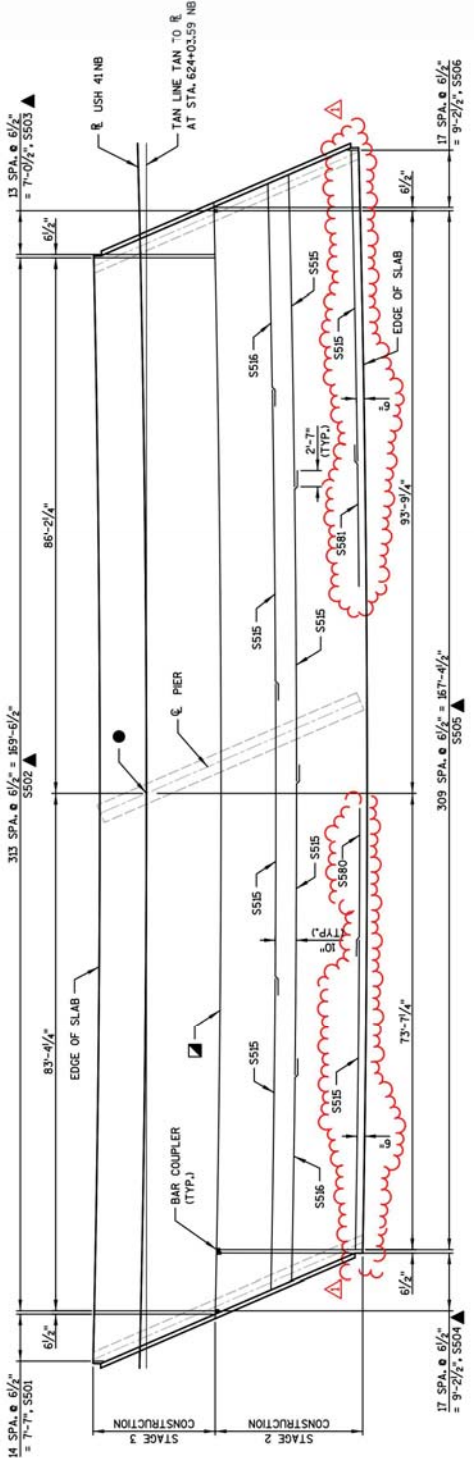
**LEGEND**

- ☑ LONGITUDINAL CONSTRUCTION JOINT KEYWAY FORMED BE A SURFACE BEVELED 2"x2", CENTER KEYWAY BETWEEN MATS.
- WORKING POINT STA. 624+03.59 NB.
- ▲ BAR WITH COUPLER, SEE SHEET 14 FOR DETAIL, TYPICAL ALONG CONSTRUCTION JOINT.
- PLACE BARS BETWEEN TOP MAT TRANSVERSE REINFORCEMENT BARS.
- PLACE HOOKED BARS (S503, S504) PARALLEL TO EDGE JOINTS UNTIL THERE IS ENOUGH CLEARANCE TO PLACE PERPENDICULAR TO GRIDER ☒.

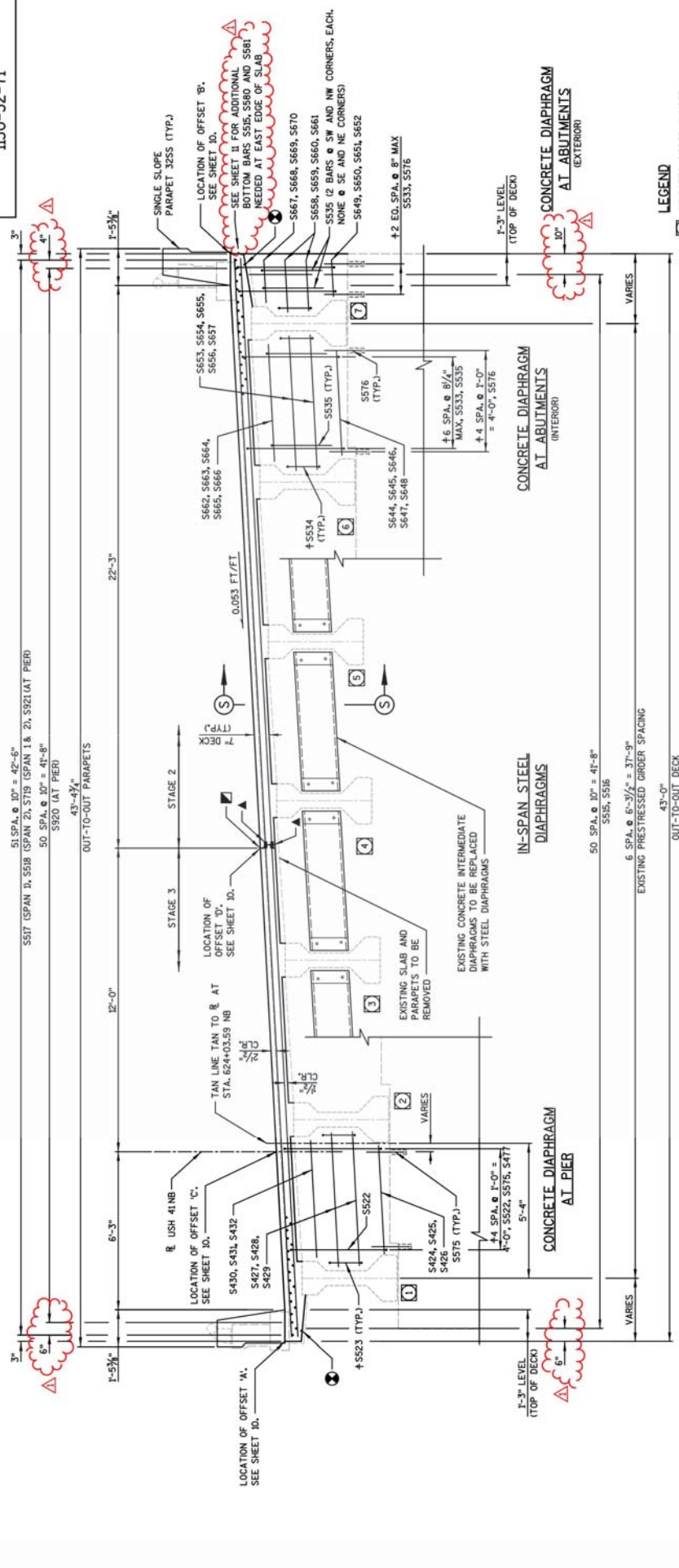
1	12/4/17	SUPERSTRUCTURE REINF.	KRB	BY
STATE OF WISCONSIN DEPARTMENT OF TRANSPORTATION STRUCTURES DESIGN SECTION				
STRUCTURE B-05-77				
SUPERSTRUCTURE REINFORCING PLAN				
SHEET 11 OF 16				532



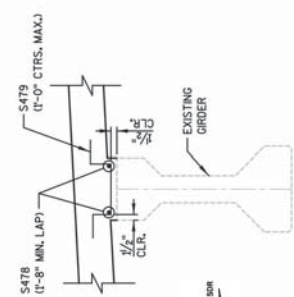
**PLAN**  
 (ISHOWING TOP MAT SLAB REINFORCING)



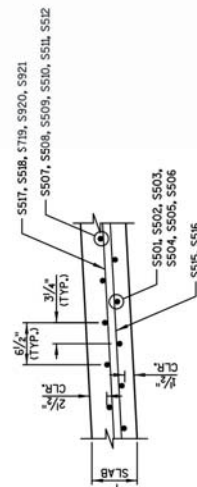
**PLAN**  
 (ISHOWING BOTTOM MAT SLAB REINFORCING)



Addendum No. 02  
ID 1130-32-71  
Revised Sheet 533  
December 7, 2017



SECTION S-S



**LEGEND**

- INDICATES GIRDER NUMBER.
- LONGITUDINAL CONSTRUCTION JOINT KEYWAY FORMED BY A SURFACE BEVELED 2"x2". CENTER KEYWAY BETWEEN MATS.
- 1/2" V-GROOVE EXTEND 1/4" GROOVE TO THE FILLET ADJACENT TO THE ABUTMENTS. LOCATE 5" FROM EDGE OF DECK.
- BAR COUPLER. SEE SHEET 14 FOR DETAIL.
- BARS PLACED PARALLEL TO GIRDERS, SPACING PERPENDICULAR TO GIRDERS.

NO.	DATE	REVISION	BY
1	12/05/17	SUPERSTRUCTURE REIN.	KRB

STATE OF WISCONSIN  
DEPARTMENT OF TRANSPORTATION  
STRUCTURES DESIGN SECTION

STRUCTURE B-05-77

DESIGN BY: \_\_\_\_\_ DATE: \_\_\_\_\_

CLASSIFIED BY: \_\_\_\_\_ DATE: \_\_\_\_\_

SHEET 12 OF 16

**SUPERSTRUCTURE SECTION**

533

WISCONSIN PROFESSIONAL ENGINEER

KEITH R. BEHREND  
E-42073  
MADISON WI

12/14/2017

WHERE THE SPACING OF EXISTING SHEAR CONNECTORS IS EQUAL TO OR LESS THAN 1'-0", SPACING OF THE #4 HAT BARS TO MATCH WHERE THE SPACING OF THE EXISTING SHEAR CONNECTORS IS MORE THAN 1'-0", SPACING OF #4 HAT BARS TO BE 1'-0".

William C. Decker, P.E.  
12/05/17

SECTION S-S

COATED: 85,830 LBS

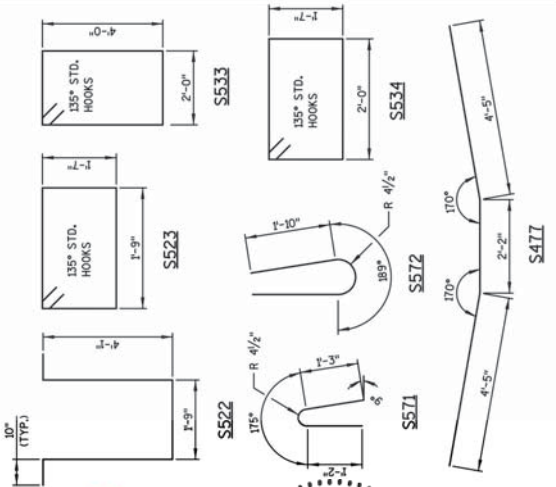
**SUPERSTRUCTURE BILL OF MATERIALS**

MARK	NO. REOD	LENGTH	BENT	COAT	LOCATION
STAGE 2	STAGE 2				
5501	15	10'-3"	X	X	SLAB - TRANSVERSE - BOTTOM - STAGE 3
5502	314	19'-4"	X	X	SLAB - TRANSVERSE - BOTTOM - STAGE 3
5503	14	9'-3"	X	X	SLAB - TRANSVERSE - BOTTOM - STAGE 3
5504	18	11'-3"	X	X	SLAB - TRANSVERSE - BOTTOM - STAGE 2
5505	310	23'-4"	X	X	SLAB - TRANSVERSE - BOTTOM - STAGE 2
5506	18	12'-5"	X	X	SLAB - TRANSVERSE - BOTTOM - STAGE 2
5507	315	19'-4"	X	X	SLAB - TRANSVERSE - TOP - STAGE 3
5508	313	19'-4"	X	X	SLAB - TRANSVERSE - TOP - STAGE 3
5509	14	9'-11"	X	X	SLAB - TRANSVERSE - TOP - STAGE 3
5510	17	11'-4"	X	X	SLAB - TRANSVERSE - TOP - STAGE 2
5511	310	23'-4"	X	X	SLAB - TRANSVERSE - TOP - STAGE 2
5512	18	12'-5"	X	X	SLAB - TRANSVERSE - TOP - STAGE 2
5513	329	5'-2"	X	X	SLAB - TRANSVERSE HOOK - TOP - STAGE 3
5514	328	5'-2"	X	X	SLAB - TRANSVERSE HOOK - TOP - STAGE 2
5515	86	69	50'-0"	X	SLAB - LONGITUDINAL - BOTTOM
5516	28	23	35'-0"	X	SLAB - LONGITUDINAL - BOTTOM
5517	28	24	43'-1"	X	SLAB - LONGITUDINAL - TOP - SPAN 1
5518	28	24	44'-1"	X	SLAB - LONGITUDINAL - TOP - SPAN 1 & 2
5519	56	48	23'-0"	X	SLAB - LONGITUDINAL - TOP - SPAN 1 & 2
5520	28	23	36'-0"	X	SLAB - LONGITUDINAL - TOP - AT PIER
5521	28	24	56'-0"	X	SLAB - LONGITUDINAL - TOP - AT PIER
5522	16	11'-1"	X	X	PIER DIAPHRAGM - VERT.
5523	7	7'-4"	X	X	PIER DIAPHRAGM - VERT. - ADJACENT TO GIRDERS
5524	6	4	4'-6"	X	PIER DIAPHRAGM - HORIZ. - LOWER
5525	2	0'-6"	X	X	PIER DIAPHRAGM - HORIZ. - LOWER - STAGE 2
5526	2	0'-6"	X	X	PIER DIAPHRAGM - HORIZ. - LOWER - STAGE 3
5527	12	8	5'-10"	X	PIER DIAPHRAGM - HORIZ. - MID
5528	4	4	5'-10"	X	PIER DIAPHRAGM - HORIZ. - MID - STAGE 2
5529	4	4	4'-8"	X	PIER DIAPHRAGM - HORIZ. - MID - STAGE 3
5530	24	16	5'-0"	X	PIER DIAPHRAGM - HORIZ. - UPPER
5531	8	4	4'-3"	X	PIER DIAPHRAGM - HORIZ. - UPPER - STAGE 2
5532	8	4	4'-3"	X	PIER DIAPHRAGM - HORIZ. - UPPER - STAGE 3
5533	52	44	12'-8"	X	ABUT. DIAPHRAGM - VERT.
5534	16	12	7'-10"	X	ABUT. DIAPHRAGM - VERT. - ADJACENT TO GIRDERS
5535	50	38	6'-8"	X	ABUT. DIAPHRAGM - VERT. - PAVING NOTCH
5536	2	24'-3"	X	X	ABUT. DIAPHRAGM - HORIZ. - PAVING NOTCH - S. ABUT. - STAGE 2
5537	2	19'-11"	X	X	ABUT. DIAPHRAGM - HORIZ. - PAVING NOTCH - S. ABUT. - STAGE 3
5538	2	23'-0"	X	X	ABUT. DIAPHRAGM - HORIZ. - PAVING NOTCH - N. ABUT. - STAGE 2
5539	2	19'-6"	X	X	ABUT. DIAPHRAGM - HORIZ. - PAVING NOTCH - N. ABUT. - STAGE 3
5540	6	25'-8"	X	X	ABUT. DIAPHRAGM - HORIZ. - LONGITUDINAL - S. ABUT. - STAGE 2
5541	6	20'-4"	X	X	ABUT. DIAPHRAGM - HORIZ. - LONGITUDINAL - S. ABUT. - STAGE 3
5542	6	24'-3"	X	X	ABUT. DIAPHRAGM - HORIZ. - LONGITUDINAL - N. ABUT. - STAGE 2
5543	6	20'-0"	X	X	ABUT. DIAPHRAGM - HORIZ. - LONGITUDINAL - N. ABUT. - STAGE 3
5544	4	4	4'-6"	X	ABUT. DIAPHRAGM - HORIZ. - LOWER INTERIOR
5545	1	1'-5"	X	X	ABUT. DIAPHRAGM - HORIZ. - LOWER INTERIOR - S. ABUT. - STAGE 2
5546	1	1'-5"	X	X	ABUT. DIAPHRAGM - HORIZ. - LOWER INTERIOR - S. ABUT. - STAGE 3
5547	1	1'-9"	X	X	ABUT. DIAPHRAGM - HORIZ. - LOWER INTERIOR - N. ABUT. - STAGE 2
5548	1	1'-9"	X	X	ABUT. DIAPHRAGM - HORIZ. - LOWER INTERIOR - N. ABUT. - STAGE 3
5549	1	1'-3"	X	X	ABUT. DIAPHRAGM - HORIZ. - LOWER EXTERIOR - S. ABUT. - STAGE 2
5550	1	2'-2"	X	X	ABUT. DIAPHRAGM - HORIZ. - LOWER EXTERIOR - S. ABUT. - STAGE 3
5551	1	0'-6"	X	X	ABUT. DIAPHRAGM - HORIZ. - LOWER EXTERIOR - N. ABUT. - STAGE 2
5552	1	2'-0"	X	X	ABUT. DIAPHRAGM - HORIZ. - LOWER EXTERIOR - N. ABUT. - STAGE 3
5553	12	8	5'-10"	X	ABUT. DIAPHRAGM - HORIZ. - MID INTERIOR
5554	2	2'-2"	X	X	ABUT. DIAPHRAGM - HORIZ. - MID INTERIOR - S. ABUT. - STAGE 2
5555	2	3'-8"	X	X	ABUT. DIAPHRAGM - HORIZ. - MID INTERIOR - S. ABUT. - STAGE 3
5556	2	2'-5"	X	X	ABUT. DIAPHRAGM - HORIZ. - MID INTERIOR - N. ABUT. - STAGE 2
5557	2	3'-5"	X	X	ABUT. DIAPHRAGM - HORIZ. - MID INTERIOR - N. ABUT. - STAGE 3
5558	2	2'-0"	X	X	ABUT. DIAPHRAGM - HORIZ. - MID EXTERIOR - S. ABUT. - STAGE 2
5559	2	2'-10"	X	X	ABUT. DIAPHRAGM - HORIZ. - MID EXTERIOR - S. ABUT. - STAGE 3

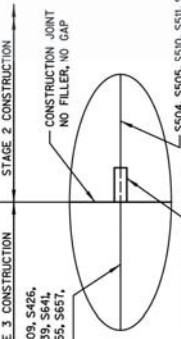
MARK	NO. REOD	LENGTH	BENT	COAT	LOCATION
STAGE 2	STAGE 2				
5560	2	1'-3"	X	X	ABUT. DIAPHRAGM - HORIZ. - MID EXTERIOR - N. ABUT. - STAGE 2
5561	2	2'-8"	X	X	ABUT. DIAPHRAGM - HORIZ. - MID EXTERIOR - N. ABUT. - STAGE 3
5562	6	4	5'-0"	X	ABUT. DIAPHRAGM - HORIZ. - UPPER INTERIOR
5563	1	1	1'-9"	X	ABUT. DIAPHRAGM - HORIZ. - UPPER INTERIOR - S. ABUT. - STAGE 2
5564	1	1	3'-3"	X	ABUT. DIAPHRAGM - HORIZ. - UPPER INTERIOR - S. ABUT. - STAGE 3
5565	1	1	3'-0"	X	ABUT. DIAPHRAGM - HORIZ. - UPPER INTERIOR - N. ABUT. - STAGE 2
5566	1	1	3'-0"	X	ABUT. DIAPHRAGM - HORIZ. - UPPER INTERIOR - N. ABUT. - STAGE 3
5567	1	1	1'-7"	X	ABUT. DIAPHRAGM - HORIZ. - UPPER EXTERIOR - S. ABUT. - STAGE 2
5568	1	1	2'-5"	X	ABUT. DIAPHRAGM - HORIZ. - UPPER EXTERIOR - S. ABUT. - STAGE 3
5569	1	1	0'-10"	X	ABUT. DIAPHRAGM - HORIZ. - UPPER EXTERIOR - N. ABUT. - STAGE 2
5570	1	1	2'-3"	X	ABUT. DIAPHRAGM - HORIZ. - UPPER EXTERIOR - N. ABUT. - STAGE 3
5571	268	268	4'-5"	X	PARAPETS - HORIZ.
5572	268	268	5'-0"	X	PARAPETS - VERT.
5573	18	18	50'-0"	X	PARAPETS - HORIZ.
5574	6	6	33'-3"	X	PARAPETS - HORIZ.
5575	16	14	2'-0"	X	ABUT. DIAPHRAGM - HORIZ. - LAUNCH - VERT. - TYPE S ADHESIVE ANCHOR INTO EXISTING ABUTMENT
5576	38	34	2'-0"	X	ABUT. DIAPHRAGM - HORIZ. - LAUNCH - VERT. - TYPE S ADHESIVE ANCHOR INTO EXISTING ABUTMENT
5577	16	14	11'-0"	X	ORDER HAUNCH - HORIZ. - AT PIERS
5578	40	30	36'-8"	X	ORDER HAUNCH - HORIZ. - SHEAR CONNECTORS
5479	856	642	2'-11"	X	GRIER HAUNCH - VERT. - SHEAR CONNECTORS
5580	1	1	23'-2"	X	SLAB - LONG. - BOTTOM - E. EDGE - SPAN 1
5581	1	1	22'-10"	X	SLAB - LONG. - BOTTOM - E. EDGE - SPAN 2

\* MASONRY ANCHORS, TYPE S, 3/8" INCH EMBED 6"

*William C. Decker, Inc.*  
12/05/17



LEGEND  
 △ BAR SERIES: SEE TABLE THIS SHEET.  
 ▣ BAR WITH COUPLER: SEE THIS SHEET FOR DETAILS.



**BAR COUPLER**  
 INSTALLATION AND SETTING METHODS  
 "A" SET SPLICER BY MEANS OF A TEMPLATE BOLT.  
 "B" SET SPLICER BY NAILING TO WOOD FORMS OR CEMENTING TO STEEL FORMS.

BAR LENGTHS HAVE BEEN COMPUTED TO ± OF CONSTRUCTION JOINT AND SHALL BE MODIFIED TO BAR COUPLER MANUFACTURER RECOMMENDATIONS.

NO.	DATE	REVISION	BY
1	12/4/17	SUPERSTRUCTURE REIN.	KRB

STATE OF WISCONSIN  
 DEPARTMENT OF TRANSPORTATION  
 STRUCTURES DESIGN SECTION  
 STRUCTURE B-05-77

DESIGN BY: [ ]  
 DTH: [ ]  
 PLANS CVD: [ ]  
 A/DW: [ ]

SUPERSTRUCTURE DETAILS - 2  
 SHEET 14 OF 16  
 535

Addendum No. 02  
 ID 1130-32-71  
 Revised Sheet 535  
 December 7, 2017



Proposal Schedule of Items

Proposal ID: 20171212014 Project(s): 1130-32-71, 1150-54-71, 1150-68-71

Federal ID(s): WISC 2018011, WISC 2018012, WISC 2018013

SECTION: 0001

Contract Items

Alt Set ID:

Alt Mbr ID:

Proposal Line Number	Item ID Description	Approximate Quantity and Units	Unit Price	Bid Amount
0002	201.0105 Clearing	11.000 STA	_____.	_____.
0004	201.0205 Grubbing	9.000 STA	_____.	_____.
0006	203.0100 Removing Small Pipe Culverts	31.000 EACH	_____.	_____.
0008	203.0200 Removing Old Structure (station) 001. STA 33+88	LS	LUMP SUM	_____.
0010	203.0200 Removing Old Structure (station) 002. STA 624+04NB	LS	LUMP SUM	_____.
0012	203.0200 Removing Old Structure (station) 003. STA 623+64SB	LS	LUMP SUM	_____.
0014	203.0200 Removing Old Structure (station) 004. STA 643+19NB	LS	LUMP SUM	_____.
0016	203.0200 Removing Old Structure (station) 005. STA 642+08SB	LS	LUMP SUM	_____.
0018	203.0210.S Abatement of Asbestos Containing Material (structure) 001. B-05-0131	LS	LUMP SUM	_____.
0020	203.0210.S Abatement of Asbestos Containing Material (structure) 002. B-05-0077	LS	LUMP SUM	_____.
0022	203.0210.S Abatement of Asbestos Containing Material (structure) 003. B-05-0076	LS	LUMP SUM	_____.
0024	203.0210.S Abatement of Asbestos Containing Material (structure) 004. B-05-0079	LS	LUMP SUM	_____.
0026	203.0210.S Abatement of Asbestos Containing Material (structure) 005. B-05-0078	LS	LUMP SUM	_____.
0028	203.0225.S Debris Containment (structure) 001. B- 05-0131	LS	LUMP SUM	_____.



Proposal Schedule of Items

Proposal ID: 20171212014 Project(s): 1130-32-71, 1150-54-71, 1150-68-71

Federal ID(s): WISC 2018011, WISC 2018012, WISC 2018013

SECTION: 0001

Contract Items

Alt Set ID:

Alt Mbr ID:

Proposal Line Number	Item ID Description	Approximate Quantity and Units	Unit Price	Bid Amount
0030	203.0225.S Debris Containment (structure) 002. B-05-0077	LS	LUMP SUM	_____.
0032	203.0225.S Debris Containment (structure) 003. B-05-0076	LS	LUMP SUM	_____.
0034	203.0225.S Debris Containment (structure) 004. B-05-0079	LS	LUMP SUM	_____.
0036	203.0225.S Debris Containment (structure) 005. B-05-0078	LS	LUMP SUM	_____.
0038	204.0100 Removing Pavement	3,450.000 SY	_____.	_____.
0040	204.0110 Removing Asphaltic Surface	57,540.000 SY	_____.	_____.
0042	204.0115 Removing Asphaltic Surface Butt Joints	1,738.000 SY	_____.	_____.
0044	204.0120 Removing Asphaltic Surface Milling	164,000.000 SY	_____.	_____.
0046	204.0150 Removing Curb & Gutter	2,575.000 LF	_____.	_____.
0048	204.0155 Removing Concrete Sidewalk	920.000 SY	_____.	_____.
0050	204.0165 Removing Guardrail	7,273.000 LF	_____.	_____.
0052	204.0170 Removing Fence	350.000 LF	_____.	_____.
0054	204.0175 Removing Concrete Slope Paving	290.000 SY	_____.	_____.
0056	204.0180 Removing Delineators and Markers	155.000 EACH	_____.	_____.
0058	204.0190 Removing Surface Drains	9.000 EACH	_____.	_____.
0060	204.0195 Removing Concrete Bases	20.000 EACH	_____.	_____.



Proposal Schedule of Items

Proposal ID: 20171212014 Project(s): 1130-32-71, 1150-54-71, 1150-68-71

Federal ID(s): WISC 2018011, WISC 2018012, WISC 2018013

SECTION: 0001

Contract Items

Alt Set ID:

Alt Mbr ID:

Proposal Line Number	Item ID Description	Approximate Quantity and Units	Unit Price	Bid Amount
0062	204.0220 Removing Inlets	12.000 EACH	_____.	_____.
0064	204.9090.S Removing (item description) 001. Removing Underdrain	696.000 LF	_____.	_____.
0066	205.0100 Excavation Common	37,702.000 CY	_____.	_____.
0068	206.1000 Excavation for Structures Bridges (structure) 001. B-05-0131	LS	LUMP SUM	_____.
0070	206.1000 Excavation for Structures Bridges (structure) 002. B-05-0077	LS	LUMP SUM	_____.
0072	206.1000 Excavation for Structures Bridges (structure) 003. B-05-0076	LS	LUMP SUM	_____.
0074	206.1000 Excavation for Structures Bridges (structure) 004. B-05-0079	LS	LUMP SUM	_____.
0076	206.1000 Excavation for Structures Bridges (structure) 005. B-05-0078	LS	LUMP SUM	_____.
0078	206.3000 Excavation for Structures Retaining Walls (structure) 001. R-05-0114	LS	LUMP SUM	_____.
0080	208.0100 Borrow	18,989.000 CY	_____.	_____.
0082	210.1500 Backfill Structure Type A	2,302.000 TON	_____.	_____.
0084	211.0100 Prepare Foundation for Asphaltic Paving (project) 001. 1130-32-71	LS	LUMP SUM	_____.
0086	211.0400 Prepare Foundation for Asphaltic Shoulders	792.200 STA	_____.	_____.
0088	213.0100 Finishing Roadway (project) 001. 1130- 32-71	1.000 EACH	_____.	_____.



## Proposal Schedule of Items

Proposal ID: 20171212014 Project(s): 1130-32-71, 1150-54-71, 1150-68-71

Federal ID(s): WISC 2018011, WISC 2018012, WISC 2018013

SECTION: 0001

Contract Items

Alt Set ID:

Alt Mbr ID:

Proposal Line Number	Item ID Description	Approximate Quantity and Units	Unit Price	Bid Amount
0090	213.0100 Finishing Roadway (project) 002. 1150-54-71	1.000 EACH	_____.	_____.
0092	213.0100 Finishing Roadway (project) 003. 1150-68-71	1.000 EACH	_____.	_____.
0094	214.0100 Obliterating Old Road	1.000 STA	_____.	_____.
0096	305.0110 Base Aggregate Dense 3/4-Inch	15,120.000 TON	_____.	_____.
0098	305.0120 Base Aggregate Dense 1 1/4-Inch	21,695.000 TON	_____.	_____.
0100	305.0500 Shaping Shoulders	1,516.000 STA	_____.	_____.
0102	310.0115 Base Aggregate Open-Graded	14.000 CY	_____.	_____.
0104	311.0110 Breaker Run	33,210.000 TON	_____.	_____.
0106	415.0080 Concrete Pavement 8-Inch	16,314.000 SY	_____.	_____.
0108	415.0410 Concrete Pavement Approach Slab	665.000 SY	_____.	_____.
0110	415.5110.S Concrete Pavement Joint Layout	1.000 LS	_____.	_____.
0112	416.0160 Concrete Driveway 6-Inch	90.000 SY	_____.	_____.
0114	416.0610 Drilled Tie Bars	198.000 EACH	_____.	_____.
0116	416.0620 Drilled Dowel Bars	200.000 EACH	_____.	_____.
0118	416.1010 Concrete Surface Drains	39.700 CY	_____.	_____.
0120	416.1110 Concrete Shoulder Rumble Strips	15,390.000 LF	_____.	_____.





## Proposal Schedule of Items

Proposal ID: 20171212014 Project(s): 1130-32-71, 1150-54-71, 1150-68-71

Federal ID(s): WISC 2018011, WISC 2018012, WISC 2018013

SECTION: 0001

Contract Items

Alt Set ID:

Alt Mbr ID:

Proposal Line Number	Item ID Description	Approximate Quantity and Units	Unit Price	Bid Amount
0122	440.4410 Incentive IRI Ride	28,550.000 DOL	1.00000	28,550.00
0124	455.0605 Tack Coat	24,080.000 GAL	_____	_____
0126	460.2000 Incentive Density HMA Pavement	26,840.000 DOL	1.00000	26,840.00
0132	460.4110.S Reheating HMA Pavement Longitudinal Joints	85,000.000 LF	_____	_____
0134	460.5223 HMA Pavement 3 LT 58-28 S	6,730.000 TON	_____	_____
0136	460.5224 HMA Pavement 4 LT 58-28 S	9,260.000 TON	_____	_____
0138	460.7223 HMA Pavement 3 HT 58-28 S	14,675.000 TON	_____	_____
0142	465.0105 Asphaltic Surface	54.000 TON	_____	_____
0144	465.0120 Asphaltic Surface Driveways and Field Entrances	60.000 TON	_____	_____
0146	465.0125 Asphaltic Surface Temporary	13,585.000 TON	_____	_____
0148	465.0315 Asphaltic Flumes	38.000 SY	_____	_____
0150	465.0400 Asphaltic Shoulder Rumble Strips	94,830.000 LF	_____	_____
0152	502.0100 Concrete Masonry Bridges	2,028.000 CY	_____	_____
0154	502.3100 Expansion Device (structure) 001. B-05-0131	LS	LUMP SUM	_____
0156	502.3100 Expansion Device (structure) 002.B-05-0079	LS	LUMP SUM	_____



Proposal Schedule of Items

Proposal ID: 20171212014 Project(s): 1130-32-71, 1150-54-71, 1150-68-71

Federal ID(s): WISC 2018011, WISC 2018012, WISC 2018013

SECTION: 0001

Contract Items

Alt Set ID:

Alt Mbr ID:

Proposal Line Number	Item ID Description	Approximate Quantity and Units	Unit Price	Bid Amount
0158	502.3100 Expansion Device (structure) 003. B-05-0078	LS	LUMP SUM	_____.
0160	502.3200 Protective Surface Treatment	4,662.000 SY	_____.	_____.
0162	502.3210 Pigmented Surface Sealer	960.000 SY	_____.	_____.
0164	502.4105 Adhesive Anchors 5/8-inch	350.000 EACH	_____.	_____.
0166	502.4106 Adhesive Anchors 3/4-inch	5.000 EACH	_____.	_____.
0168	502.4205 Adhesive Anchors No. 5 Bar	1,674.000 EACH	_____.	_____.
0170	502.4206 Adhesive Anchors No. 6 Bar	204.000 EACH	_____.	_____.
0172	502.4208 Adhesive Anchors No. 8 Bar	14.000 EACH	_____.	_____.
0174	503.0145 Prestressed Girder Type I 45-Inch	64.000 LF	_____.	_____.
0176	504.0500 Concrete Masonry Retaining Walls	106.000 CY	_____.	_____.
0178	505.0400 Bar Steel Reinforcement HS Structures	9,100.000 LB	_____.	_____.
0180	505.0600 Bar Steel Reinforcement HS Coated Structures	524,210.000 LB	_____.	_____.
0182	505.0904 Bar Couplers No. 4	28.000 EACH	_____.	_____.
0184	505.0905 Bar Couplers No. 5	1,292.000 EACH	_____.	_____.
0186	505.0906 Bar Couplers No. 6	48.000 EACH	_____.	_____.
0188	505.0908 Bar Couplers No. 8	12.000 EACH	_____.	_____.



## Proposal Schedule of Items

Proposal ID: 20171212014 Project(s): 1130-32-71, 1150-54-71, 1150-68-71

Federal ID(s): WISC 2018011, WISC 2018012, WISC 2018013

SECTION: 0001

Contract Items

Alt Set ID:

Alt Mbr ID:

Proposal Line Number	Item ID Description	Approximate Quantity and Units	Unit Price	Bid Amount
0190	506.0605 Structural Steel HS	51,050.000 LB	_____.	_____.
0192	506.2605 Bearing Pads Elastomeric Non-Laminated	1.000 EACH	_____.	_____.
0194	506.3020 Welded Stud Shear Connectors 7/8x7-Inch	2,060.000 EACH	_____.	_____.
0196	506.4000 Steel Diaphragms (structure) 001. B-05-0131	2.000 EACH	_____.	_____.
0198	506.4000 Steel Diaphragms (structure) 002. B-05-0077	24.000 EACH	_____.	_____.
0200	506.4000 Steel Diaphragms (structure) 003. B-05-0076	24.000 EACH	_____.	_____.
0202	506.4000 Steel Diaphragms (structure) 004. B-05-0079	12.000 EACH	_____.	_____.
0204	506.4000 Steel Diaphragms (structure) 005. B-05-0078	9.000 EACH	_____.	_____.
0206	506.5000 Bearing Assemblies Fixed (structure) 001. B-05-0131	1.000 EACH	_____.	_____.
0208	506.6000 Bearing Assemblies Expansion (structure) 001. B-05-0131	2.000 EACH	_____.	_____.
0210	506.6000 Bearing Assemblies Expansion (structure) 002. B-05-0078	1.000 EACH	_____.	_____.
0212	509.1500 Concrete Surface Repair	458.000 SF	_____.	_____.
0214	509.5100.S Polymer Overlay	19,753.000 SY	_____.	_____.
0216	511.1200 Temporary Shoring (structure) 001. B-05-0077	146.000 SF	_____.	_____.



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0218	511.1200 Temporary Shoring (structure) 002. B-05-0076	152.000 SF	_____.	_____.
0220	511.1200 Temporary Shoring (structure) 003. B-05-0079	212.000 SF	_____.	_____.
0222	511.1200 Temporary Shoring (structure) 004. B-05-0078	192.000 SF	_____.	_____.
0224	512.0500 Piling Steel Sheet Permanent Delivered	3,745.000 SF	_____.	_____.
0226	512.0600 Piling Steel Sheet Permanent Driven	3,745.000 SF	_____.	_____.
0228	513.2001 Railing Pipe (structure) 001. R-05-0114	287.000 LF	_____.	_____.
0230	516.0500 Rubberized Membrane Waterproofing	162.000 SY	_____.	_____.
0232	517.0600 Painting Epoxy System (structure) 001. B-05-0131	LS	LUMP SUM	_____.
0234	517.0900.S Preparation and Coating of Top Flanges (structure) 001. B-05-0131	LS	LUMP SUM	_____.
0236	517.1010.S Concrete Staining (structure) 001. R-05-0114	50.000 SF	_____.	_____.
0238	517.1050.S Architectural Surface Treatment (structure) 001. R-05-0114	50.000 SF	_____.	_____.
0240	517.1800.S Structure Repainting Recycled Abrasive (structure) 001. B-05-0131	LS	LUMP SUM	_____.
0242	517.4000.S Containment and Collection of Waste Materials (structure) 001. B-05-0131	LS	LUMP SUM	_____.
0244	517.4500.S Negative Pressure Containment and Collection of Waste Materials (structure) 001. B-05-0131	LS	LUMP SUM	_____.



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Proposal Line Number	Item ID Description	Approximate Quantity and Units	Unit Price	Bid Amount
0246	517.6001.S Portable Decontamination Facility	1.000 EACH	_____.	_____.
0248	520.8000 Concrete Collars for Pipe	5.000 EACH	_____.	_____.
0250	520.9700.S Culvert Pipe Liners (size) 001. 18-INCH	85.000 LF	_____.	_____.
0252	520.9700.S Culvert Pipe Liners (size) 002. 30-INCH	80.000 LF	_____.	_____.
0254	520.9750.S Cleaning Culvert Pipes for Liner Verification	2.000 EACH	_____.	_____.
0256	521.1012 Apron Endwalls for Culvert Pipe Steel 12-Inch	12.000 EACH	_____.	_____.
0258	521.1018 Apron Endwalls for Culvert Pipe Steel 18-Inch	5.000 EACH	_____.	_____.
0260	521.3118 Culvert Pipe Corrugated Steel 18-Inch	122.000 LF	_____.	_____.
0262	522.0118 Culvert Pipe Reinforced Concrete Class III 18-Inch	4.000 LF	_____.	_____.
0264	522.0130 Culvert Pipe Reinforced Concrete Class III 30-Inch	56.000 LF	_____.	_____.
0266	522.1012 Apron Endwalls for Culvert Pipe Reinforced Concrete 12-Inch	2.000 EACH	_____.	_____.
0268	522.1018 Apron Endwalls for Culvert Pipe Reinforced Concrete 18-Inch	7.000 EACH	_____.	_____.
0270	522.1024 Apron Endwalls for Culvert Pipe Reinforced Concrete 24-Inch	4.000 EACH	_____.	_____.
0272	522.1030 Apron Endwalls for Culvert Pipe Reinforced Concrete 30-Inch	6.000 EACH	_____.	_____.



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0274	522.1042 Apron Endwalls for Culvert Pipe Reinforced Concrete 42-Inch	2.000 EACH	_____.	_____.
0276	522.2619 Apron Endwalls for Culvert Pipe Reinforced Concrete Horizontal Elliptical 19x30-Inch	2.000 EACH	_____.	_____.
0278	524.0118 Culvert Pipe Salvaged 18-Inch	40.000 LF	_____.	_____.
0280	524.0142 Culvert Pipe Salvaged 42-Inch	24.000 LF	_____.	_____.
0282	550.2104 Piling CIP Concrete 10 3/4 X 0.25-Inch	900.000 LF	_____.	_____.
0284	601.0409 Concrete Curb & Gutter 30-Inch Type A	5,281.000 LF	_____.	_____.
0286	601.0411 Concrete Curb & Gutter 30-Inch Type D	646.000 LF	_____.	_____.
0288	601.0555 Concrete Curb & Gutter 6-Inch Sloped 36-Inch Type A	423.000 LF	_____.	_____.
0290	601.0600 Concrete Curb Pedestrian	362.000 LF	_____.	_____.
0292	602.0405 Concrete Sidewalk 4-Inch	23,178.000 SF	_____.	_____.
0294	602.0410 Concrete Sidewalk 5-Inch	14,100.000 SF	_____.	_____.
0296	602.0505 Curb Ramp Detectable Warning Field Yellow	370.000 SF	_____.	_____.
0298	603.8000 Concrete Barrier Temporary Precast Delivered	23,685.000 LF	_____.	_____.
0300	603.8125 Concrete Barrier Temporary Precast Installed	28,820.000 LF	_____.	_____.
0302	604.0400 Slope Paving Concrete	174.000 SY	_____.	_____.



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Proposal Line Number	Item ID Description	Approximate Quantity and Units	Unit Price	Bid Amount
0304	604.0500 Slope Paving Crushed Aggregate	152.000 SY	_____	_____
0306	604.9010.S Slope Paving Repair Crushed Aggregate	6.000 CY	_____	_____
0308	606.0200 Riprap Medium	95.000 CY	_____	_____
0310	608.0412 Storm Sewer Pipe Reinforced Concrete Class IV 12-Inch	291.000 LF	_____	_____
0312	608.0415 Storm Sewer Pipe Reinforced Concrete Class IV 15-Inch	136.000 LF	_____	_____
0314	608.0418 Storm Sewer Pipe Reinforced Concrete Class IV 18-Inch	159.000 LF	_____	_____
0316	608.0424 Storm Sewer Pipe Reinforced Concrete Class IV 24-Inch	402.000 LF	_____	_____
0318	608.0430 Storm Sewer Pipe Reinforced Concrete Class IV 30-Inch	170.000 LF	_____	_____
0320	608.2419 Storm Sewer Pipe Reinforced Concrete Horizontal Elliptical Class HE-IV 19x30-Inch	202.000 LF	_____	_____
0322	611.0430 Reconstructing Inlets	8.000 EACH	_____	_____
0324	611.0530 Manhole Covers Type J	1.000 EACH	_____	_____
0326	611.0600 Inlet Covers Type A	2.000 EACH	_____	_____
0328	611.0624 Inlet Covers Type H	12.000 EACH	_____	_____
0330	611.0639 Inlet Covers Type H-S	4.000 EACH	_____	_____
0332	611.0642 Inlet Covers Type MS	6.000 EACH	_____	_____



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0334	611.0654 Inlet Covers Type V	13.000 EACH	_____.	_____.
0336	611.2005 Manholes 5-FT Diameter	7.000 EACH	_____.	_____.
0338	611.3004 Inlets 4-FT Diameter	5.000 EACH	_____.	_____.
0340	611.3220 Inlets 2x2-FT	15.000 EACH	_____.	_____.
0342	611.3230 Inlets 2x3-FT	6.000 EACH	_____.	_____.
0344	611.3902 Inlets Median 2 Grate	3.000 EACH	_____.	_____.
0346	611.8110 Adjusting Manhole Covers	2.000 EACH	_____.	_____.
0348	611.8115 Adjusting Inlet Covers	11.000 EACH	_____.	_____.
0350	612.0106 Pipe Underdrain 6-Inch	14.000 LF	_____.	_____.
0352	612.0206 Pipe Underdrain Unperforated 6-Inch	20.000 LF	_____.	_____.
0354	612.0212 Pipe Underdrain Unperforated 12-Inch	782.000 LF	_____.	_____.
0356	612.0406 Pipe Underdrain Wrapped 6-Inch	485.000 LF	_____.	_____.
0358	613.1100.S Cable Barrier Type 1	47,700.000 LF	_____.	_____.
0360	613.1200.S Cable Barrier End Terminal Type 1	44.000 EACH	_____.	_____.
0362	614.0010 Barrier System Grading Shaping Finishing	11.000 EACH	_____.	_____.
0364	614.0150 Anchor Assemblies for Steel Plate Beam Guard	18.000 EACH	_____.	_____.





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Proposal Line Number	Item ID Description	Approximate Quantity and Units	Unit Price	Bid Amount
0366	614.0905 Crash Cushions Temporary	4.000 EACH	_____.	_____.
0368	614.2300 MGS Guardrail 3	8,307.500 LF	_____.	_____.
0370	614.2330 MGS Guardrail 3 K	650.000 LF	_____.	_____.
0372	614.2500 MGS Thrie Beam Transition	936.000 LF	_____.	_____.
0374	614.2610 MGS Guardrail Terminal EAT	21.000 EACH	_____.	_____.
0376	614.2620 MGS Guardrail Terminal Type 2	5.000 EACH	_____.	_____.
0378	616.0100 Fence Woven Wire (height) 001. 4-FT	350.000 LF	_____.	_____.
0380	616.0700.S Fence Safety	300.000 LF	_____.	_____.
0382	618.0100 Maintenance And Repair of Haul Roads (project) 001. 1130-32-71	1.000 EACH	_____.	_____.
0384	618.0100 Maintenance And Repair of Haul Roads (project) 002. 1150-54-71	1.000 EACH	_____.	_____.
0386	618.0100 Maintenance And Repair of Haul Roads (project) 003. 1150-68-71	1.000 EACH	_____.	_____.
0388	619.1000 Mobilization	1.000 EACH	_____.	_____.
0390	620.0200 Concrete Median Blunt Nose	100.000 SF	_____.	_____.
0392	620.0300 Concrete Median Sloped Nose	655.000 SF	_____.	_____.
0394	624.0100 Water	513.000 MGAL	_____.	_____.
0396	625.0100 Topsoil	2,165.000 SY	_____.	_____.



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0398	625.0500 Salvaged Topsoil	215,665.000 SY	_____.	_____.
0400	627.0200 Mulching	75,000.000 SY	_____.	_____.
0402	628.1104 Erosion Bales	20.000 EACH	_____.	_____.
0404	628.1504 Silt Fence	4,800.000 LF	_____.	_____.
0406	628.1520 Silt Fence Maintenance	4,800.000 LF	_____.	_____.
0408	628.1905 Mobilizations Erosion Control	12.000 EACH	_____.	_____.
0410	628.1910 Mobilizations Emergency Erosion Control	14.000 EACH	_____.	_____.
0412	628.2002 Erosion Mat Class I Type A	10,000.000 SY	_____.	_____.
0414	628.2004 Erosion Mat Class I Type B	171,980.000 SY	_____.	_____.
0416	628.2006 Erosion Mat Urban Class I Type A	2,800.000 SY	_____.	_____.
0418	628.7005 Inlet Protection Type A	63.000 EACH	_____.	_____.
0420	628.7010 Inlet Protection Type B	35.000 EACH	_____.	_____.
0422	628.7015 Inlet Protection Type C	19.000 EACH	_____.	_____.
0424	628.7020 Inlet Protection Type D	32.000 EACH	_____.	_____.
0426	628.7504 Temporary Ditch Checks	2,213.000 LF	_____.	_____.
0428	628.7555 Culvert Pipe Checks	158.000 EACH	_____.	_____.
0430	628.7560 Tracking Pads	3.000 EACH	_____.	_____.



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0432	629.0210 Fertilizer Type B	175.000 CWT	_____.	_____.
0434	630.0120 Seeding Mixture No. 20	445.000 LB	_____.	_____.
0436	630.0130 Seeding Mixture No. 30	2,990.000 LB	_____.	_____.
0438	630.0140 Seeding Mixture No. 40	95.000 LB	_____.	_____.
0440	630.0200 Seeding Temporary	125.000 LB	_____.	_____.
0442	633.0100 Delineator Posts Steel	155.000 EACH	_____.	_____.
0444	633.0500 Delineator Reflectors	181.000 EACH	_____.	_____.
0446	633.1100 Delineators Temporary	130.000 EACH	_____.	_____.
0448	633.5200 Markers Culvert End	40.000 EACH	_____.	_____.
0450	634.0612 Posts Wood 4x6-Inch X 12-FT	11.000 EACH	_____.	_____.
0452	634.0614 Posts Wood 4x6-Inch X 14-FT	58.000 EACH	_____.	_____.
0454	634.0616 Posts Wood 4x6-Inch X 16-FT	34.000 EACH	_____.	_____.
0456	634.0618 Posts Wood 4x6-Inch X 18-FT	29.000 EACH	_____.	_____.
0458	635.0200 Sign Supports Structural Steel HS	8,154.000 LB	_____.	_____.
0460	636.0100 Sign Supports Concrete Masonry	14.400 CY	_____.	_____.
0462	636.0500 Sign Supports Steel Reinforcement	882.000 LB	_____.	_____.
0464	637.1220 Signs Type I Reflective SH	1,685.000 SF	_____.	_____.



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0466	637.2210 Signs Type II Reflective H	1,215.370 SF	_____.	_____.
0468	637.2215 Signs Type II Reflective H Folding	31.080 SF	_____.	_____.
0470	637.2230 Signs Type II Reflective F	65.070 SF	_____.	_____.
0472	638.2101 Moving Signs Type I	1.000 EACH	_____.	_____.
0474	638.2102 Moving Signs Type II	13.000 EACH	_____.	_____.
0476	638.2601 Removing Signs Type I	13.000 EACH	_____.	_____.
0478	638.2602 Removing Signs Type II	103.000 EACH	_____.	_____.
0480	638.3000 Removing Small Sign Supports	133.000 EACH	_____.	_____.
0482	638.3100 Removing Structural Steel Sign Supports	17.000 EACH	_____.	_____.
0484	638.3210 Revising Signs Type I Demountable	1.000 EACH	_____.	_____.
0486	638.4100 Moving Structural Steel Sign Supports	2.000 EACH	_____.	_____.
0488	642.5001 Field Office Type B	1.000 EACH	_____.	_____.
0490	643.0300 Traffic Control Drums	213,438.000 DAY	_____.	_____.
0492	643.0420 Traffic Control Barricades Type III	17,784.000 DAY	_____.	_____.
0494	643.0705 Traffic Control Warning Lights Type A	25,660.000 DAY	_____.	_____.
0496	643.0715 Traffic Control Warning Lights Type C	18,108.000 DAY	_____.	_____.
0498	643.0800 Traffic Control Arrow Boards	1,139.000 DAY	_____.	_____.



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0500	643.0900 Traffic Control Signs	76,338.000 DAY	_____.	_____.
0502	643.0910 Traffic Control Covering Signs Type I	6.000 EACH	_____.	_____.
0504	643.0920 Traffic Control Covering Signs Type II	15.000 EACH	_____.	_____.
0506	643.1000 Traffic Control Signs Fixed Message	1,792.500 SF	_____.	_____.
0508	643.1050 Traffic Control Signs PCMS	387.000 DAY	_____.	_____.
0510	643.1070 Traffic Control Cones 42-Inch	240.000 DAY	_____.	_____.
0512	643.5000 Traffic Control	1.000 EACH	_____.	_____.
0514	645.0112 Geotextile Type DF Schedule B	117.000 SY	_____.	_____.
0516	645.0120 Geotextile Type HR	313.000 SY	_____.	_____.
0518	645.0140 Geotextile Type SAS	22,000.000 SY	_____.	_____.
0520	646.1020 Marking Line Epoxy 4-Inch	21,638.000 LF	_____.	_____.
0522	646.1040 Marking Line Grooved Wet Ref Epoxy 4-Inch	291,090.000 LF	_____.	_____.
0524	646.1555 Marking Line Grooved Contrast Permanent Tape 4-Inch	10,870.000 LF	_____.	_____.
0526	646.3020 Marking Line Epoxy 8-Inch	2,215.000 LF	_____.	_____.
0528	646.3555 Marking Line Grooved Contrast Permanent Tape 8-Inch	21,402.000 LF	_____.	_____.
0530	646.5020 Marking Arrow Epoxy	10.000 EACH	_____.	_____.



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0532	646.5120 Marking Word Epoxy	4.000 EACH	_____.	_____.
0534	646.5320 Marking Railroad Crossings Epoxy	2.000 EACH	_____.	_____.
0536	646.7120 Marking Diagonal Epoxy 12-Inch	30.000 LF	_____.	_____.
0538	646.7220 Marking Chevron Epoxy 24-Inch	439.000 LF	_____.	_____.
0540	646.8120 Marking Curb Epoxy	155.000 LF	_____.	_____.
0542	646.8220 Marking Island Nose Epoxy	9.000 EACH	_____.	_____.
0544	646.9000 Marking Removal Line 4-Inch	48,871.000 LF	_____.	_____.
0546	646.9100 Marking Removal Line 8-Inch	2,040.000 LF	_____.	_____.
0548	646.9200 Marking Removal Line Wide	175.000 LF	_____.	_____.
0550	649.0105 Temporary Marking Line Paint 4-Inch	190,960.000 LF	_____.	_____.
0552	649.0150 Temporary Marking Line Removable Tape 4-Inch	4,700.000 LF	_____.	_____.
0554	649.0205 Temporary Marking Line Paint 8-Inch	1,900.000 LF	_____.	_____.
0556	650.4000 Construction Staking Storm Sewer	63.000 EACH	_____.	_____.
0558	650.4500 Construction Staking Subgrade	9,051.000 LF	_____.	_____.
0560	650.5000 Construction Staking Base	4,229.000 LF	_____.	_____.
0562	650.5500 Construction Staking Curb Gutter and Curb & Gutter	997.000 LF	_____.	_____.



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0564	650.6000 Construction Staking Pipe Culverts	11.000 EACH	_____.	_____.
0566	650.6500 Construction Staking Structure Layout (structure) 001. B-05-0131	LS	LUMP SUM	_____.
0568	650.6500 Construction Staking Structure Layout (structure) 002. B-05-0077	LS	LUMP SUM	_____.
0570	650.6500 Construction Staking Structure Layout (structure) 003. B-05-0076	LS	LUMP SUM	_____.
0572	650.6500 Construction Staking Structure Layout (structure) 004. B-05-0079	LS	LUMP SUM	_____.
0574	650.6500 Construction Staking Structure Layout (structure) 005. B-05-0078	LS	LUMP SUM	_____.
0576	650.6500 Construction Staking Structure Layout (structure) 006. R-05-0114	LS	LUMP SUM	_____.
0578	650.7000 Construction Staking Concrete Pavement	5,278.000 LF	_____.	_____.
0580	650.8000 Construction Staking Resurfacing Reference	133,959.000 LF	_____.	_____.
0582	650.8500 Construction Staking Electrical Installations (project) 001. 1150-54-71	LS	LUMP SUM	_____.
0584	650.9000 Construction Staking Curb Ramps	23.000 EACH	_____.	_____.
0586	650.9910 Construction Staking Supplemental Control (project) 001. 1130-32-71	LS	LUMP SUM	_____.
0588	650.9910 Construction Staking Supplemental Control (project) 002. 1150-54-71	LS	LUMP SUM	_____.



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0590	650.9910 Construction Staking Supplemental Control (project) 003. 1150-68-71	LS	LUMP SUM	_____.
0592	650.9920 Construction Staking Slope Stakes	110,900.000 LF	_____.	_____.
0594	652.0210 Conduit Rigid Nonmetallic Schedule 40 1-Inch	740.000 LF	_____.	_____.
0596	652.0225 Conduit Rigid Nonmetallic Schedule 40 2-Inch	570.000 LF	_____.	_____.
0598	652.0235 Conduit Rigid Nonmetallic Schedule 40 3-Inch	2,010.000 LF	_____.	_____.
0600	652.0605 Conduit Special 2-Inch	60.000 LF	_____.	_____.
0602	652.0800 Conduit Loop Detector	710.000 LF	_____.	_____.
0604	653.0105 Pull Boxes Steel 12x24-Inch	10.000 EACH	_____.	_____.
0606	653.0164 Pull Boxes Non-Conductive 24x42-Inch	24.000 EACH	_____.	_____.
0608	653.0905 Removing Pull Boxes	18.000 EACH	_____.	_____.
0610	654.0101 Concrete Bases Type 1	9.000 EACH	_____.	_____.
0612	654.0102 Concrete Bases Type 2	2.000 EACH	_____.	_____.
0614	654.0105 Concrete Bases Type 5	3.000 EACH	_____.	_____.
0616	654.0110 Concrete Bases Type 10	5.000 EACH	_____.	_____.
0618	654.0113 Concrete Bases Type 13	1.000 EACH	_____.	_____.





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0620	654.0217 Concrete Control Cabinet Bases Type 9 Special	2.000 EACH	_____.	_____.
0622	655.0230 Cable Traffic Signal 5-14 AWG	4,620.000 LF	_____.	_____.
0624	655.0240 Cable Traffic Signal 7-14 AWG	350.000 LF	_____.	_____.
0626	655.0260 Cable Traffic Signal 12-14 AWG	800.000 LF	_____.	_____.
0628	655.0305 Cable Type UF 2-12 AWG Grounded	1,440.000 LF	_____.	_____.
0630	655.0515 Electrical Wire Traffic Signals 10 AWG	2,280.000 LF	_____.	_____.
0632	655.0610 Electrical Wire Lighting 12 AWG	2,034.000 LF	_____.	_____.
0634	655.0625 Electrical Wire Lighting 6 AWG	4,287.000 LF	_____.	_____.
0636	655.0700 Loop Detector Lead In Cable	1,510.000 LF	_____.	_____.
0638	655.0800 Loop Detector Wire	1,760.000 LF	_____.	_____.
0640	656.0200 Electrical Service Meter Breaker Pedestal (location) 001. USH 41 NB & CTH B	LS	LUMP SUM	_____.
0642	656.0200 Electrical Service Meter Breaker Pedestal (location) 002. USH 41 SB & CTH B	LS	LUMP SUM	_____.
0644	657.0100 Pedestal Bases	9.000 EACH	_____.	_____.
0646	657.0255 Transformer Bases Breakaway 11 1/2-Inch Bolt Circle	3.000 EACH	_____.	_____.
0648	657.0315 Poles Type 4	2.000 EACH	_____.	_____.



Proposal Schedule of Items

Proposal ID: 20171212014 Project(s): 1130-32-71, 1150-54-71, 1150-68-71

Federal ID(s): WISC 2018011, WISC 2018012, WISC 2018013

SECTION: 0001

Contract Items

Alt Set ID:

Alt Mbr ID:

Proposal Line Number	Item ID Description	Approximate Quantity and Units	Unit Price	Bid Amount
0650	657.0322 Poles Type 5-Aluminum	3.000 EACH	_____.	_____.
0652	657.0420 Traffic Signal Standards Aluminum 13-FT	4.000 EACH	_____.	_____.
0654	657.0425 Traffic Signal Standards Aluminum 15-FT	2.000 EACH	_____.	_____.
0656	657.0430 Traffic Signal Standards Aluminum 10-FT	3.000 EACH	_____.	_____.
0658	657.0709 Luminaire Arms Truss Type 4-Inch Clamp 12-FT	2.000 EACH	_____.	_____.
0660	657.0710 Luminaire Arms Truss Type 4 1/2-Inch Clamp 12-FT	6.000 EACH	_____.	_____.
0662	657.1350 Install Poles Type 10	5.000 EACH	_____.	_____.
0664	657.1360 Install Poles Type 13	1.000 EACH	_____.	_____.
0666	657.1520 Install Monotube Arms 20-FT	2.000 EACH	_____.	_____.
0668	657.1525 Install Monotube Arms 25-FT	1.000 EACH	_____.	_____.
0670	657.1530 Install Monotube Arms 30-FT	2.000 EACH	_____.	_____.
0672	657.1535 Install Monotube Arms 35-FT	1.000 EACH	_____.	_____.
0674	657.1812 Install Luminaire Arms Steel 12-FT	7.000 EACH	_____.	_____.
0676	658.0173 Traffic Signal Face 3S 12-Inch	18.000 EACH	_____.	_____.
0678	658.0174 Traffic Signal Face 4S 12-Inch	4.000 EACH	_____.	_____.
0680	658.0215 Backplates Signal Face 3 Section 12-Inch	18.000 EACH	_____.	_____.



## Proposal Schedule of Items

Proposal ID: 20171212014 Project(s): 1130-32-71, 1150-54-71, 1150-68-71

Federal ID(s): WISC 2018011, WISC 2018012, WISC 2018013

SECTION: 0001

Contract Items

Alt Set ID:

Alt Mbr ID:

Proposal Line Number	Item ID Description	Approximate Quantity and Units	Unit Price	Bid Amount
0682	658.0220 Backplates Signal Face 4 Section 12-Inch	4.000 EACH	_____.	_____.
0684	658.0416 Pedestrian Signal Face 16-Inch	10.000 EACH	_____.	_____.
0686	658.0500 Pedestrian Push Buttons	3.000 EACH	_____.	_____.
0688	658.5069 Signal Mounting Hardware (location) 001. USH 41 NB & CTH B	LS	LUMP SUM	_____.
0690	658.5069 Signal Mounting Hardware (location) 002. USH 41 SB & CTH B	LS	LUMP SUM	_____.
0692	659.1115 Luminaires Utility LED A	9.000 EACH	_____.	_____.
0694	659.1120 Luminaires Utility LED B	6.000 EACH	_____.	_____.
0696	690.0150 Sawing Asphalt	76,911.000 LF	_____.	_____.
0698	690.0250 Sawing Concrete	418.000 LF	_____.	_____.
0700	715.0415 Incentive Strength Concrete Pavement	5,135.000 DOL	1.00000	5,135.00
0702	715.0502 Incentive Strength Concrete Structures	12,798.000 DOL	1.00000	12,798.00
0704	801.0117 Railroad Flagging Reimbursement	57,200.000 DOL	1.00000	57,200.00
0706	ASP.1T0A On-the-Job Training Apprentice at \$5.00/HR	6,000.000 HRS	5.00000	30,000.00
0708	ASP.1T0G On-the-Job Training Graduate at \$5.00/HR	3,960.000 HRS	5.00000	19,800.00
0710	SPV.0035 Special 001. Concrete Surface Repair Corrosion Inhibiting Admixture	1.700 CY	_____.	_____.



Proposal Schedule of Items

Proposal ID: 20171212014 Project(s): 1130-32-71, 1150-54-71, 1150-68-71

Federal ID(s): WISC 2018011, WISC 2018012, WISC 2018013

SECTION: 0001

Contract Items

Alt Set ID:

Alt Mbr ID:

Proposal Line Number	Item ID Description	Approximate Quantity and Units	Unit Price	Bid Amount
0712	SPV.0060 Special 002. Adjusting Water Valve Box	4.000 EACH	_____.	_____.
0714	SPV.0060 Special 003. Cable Barrier End Terminal Nucor	14.000 EACH	_____.	_____.
0720	SPV.0060 Special 100. Soil Nail Verification Tests R-05-0114	3.000 EACH	_____.	_____.
0722	SPV.0060 Special 101. Soil Nail Proof Test R-05-0114	4.000 EACH	_____.	_____.
0724	SPV.0090 Special 001. Fence Decorative Bridge	265.000 LF	_____.	_____.
0726	SPV.0090 Special 002. Concrete Curb and Gutter 24-Inch	330.000 LF	_____.	_____.
0728	SPV.0090 Special 003. Salvage and Reinstall HT Cable Barrier	7,115.000 LF	_____.	_____.
0730	SPV.0090 Special 004. Marking Crosswalk Epoxy 8-Inch	738.000 LF	_____.	_____.
0732	SPV.0090 Special 005. Temporary Drain Slotted Vane Longitudinal	805.000 LF	_____.	_____.
0734	SPV.0090 Special 006. Remove and Reinstall Guardrail	4,795.000 LF	_____.	_____.
0736	SPV.0090 Special 007. Glare Screen Temporary	1,000.000 LF	_____.	_____.
0738	SPV.0090 Special 008. Cable Barrier Nucor	13,125.000 LF	_____.	_____.
0740	SPV.0090 Special 008. Marking Stop Line Epoxy 24-Inch	210.000 LF	_____.	_____.
0742	SPV.0090 Special 009. Concrete Barrier Temporary Precast Anchoring	3,885.000 LF	_____.	_____.



Proposal Schedule of Items

Proposal ID: 20171212014 Project(s): 1130-32-71, 1150-54-71, 1150-68-71

Federal ID(s): WISC 2018011, WISC 2018012, WISC 2018013

SECTION: 0001

Contract Items

Alt Set ID:

Alt Mbr ID:

Proposal Line Number	Item ID Description	Approximate Quantity and Units	Unit Price	Bid Amount
0744	SPV.0105 Special 001. Remove Traffic Signal (USH 41 NB & CTH B)	LS	LUMP SUM	_____.
0746	SPV.0105 Special 002. Remove Traffic Signal (USH 41 SB & CTH B)	LS	LUMP SUM	_____.
0748	SPV.0105 Special 004. Electrical Service Meter Breaker Pedestal Special	LS	LUMP SUM	_____.
0750	SPV.0165 Special 001. Fiber Wrap Reinforcing Structural	1,071.000 SF	_____.	_____.
0752	SPV.0165 Special 002. Insulation Board (2-Inch)	224.000 SF	_____.	_____.
0754	SPV.0165 Special 100. Soil Nail Retaining Walls R-05-0114	1,817.000 SF	_____.	_____.
0756	204.0270 Abandoning Culvert Pipes	1.000 EACH	_____.	_____.
0758	450.4000 HMA Cold Weather Paving	13,420.000 TON	_____.	_____.
0760	460.0100.S HMA Pavement Test Strip	1.000 EACH	_____.	_____.
0762	460.8424 HMA Pavement 4 SMA 58-28 H	11,500.000 TON	_____.	_____.
0764	SPV.0105 Special 003. Material Transfer Vehicle	LS	LUMP SUM	_____.
Section: 0001			Total:	_____.
			Total Bid:	_____.

