



Wisconsin Department of Transportation

September 7, 2017

Division of Transportation Systems Development

Bureau of Project Development
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NOTICE TO ALL CONTRACTORS:

**Proposal #11: 1030-20-85, WISC 2017 485
N-S Freeway - Ryan Road
Interchange
Ryan Rd, Bridge & Ramps
IH 94
Milwaukee County**

**1030-26-72
North-South Freeway
Ryan Road to Rawson Avenue
(Box Culvert Extensions)
IH 94
Milwaukee County**

Letting of September 12, 2017

This is Addendum No. 03, which provides for the following:

Special Provisions:

Revised Special Provisions	
Article No.	Description
46	Concrete Masonry Structures

Deleted Special Provisions	
Article No.	Description
39	Disposing of Surplus Material

Schedule of Items:

Revised Bid Item Quantities					
Bid Item	Item Description	Unit	Old Quantity	Revised Quantity	Proposal Total
SPV.0900.4310	Fence Decorative Wing	LF	197	67	264

Plan Sheets:

Revised Plan Sheets	
Plan Sheet	Plan Sheet Title (brief description of changes to sheet)
456	Removed incorrect note from Earthwork Notes
482	Displayed hidden columns on Pavement Marking Items table in Miscellaneous Quantities
869	Revised Fence Decorative Wing quantity in the Total Estimated Quantities Table

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. 03
1030-20-85/1030-26-72
September 7, 2017

Special Provisions

39. DELETED.

46. Concrete Masonry Structures.

*Replace paragraph four under section titled **C Construction** with the following:*

Any additive or action taken to control the temperature of the Concrete Masonry to within the limits of this special provision, excluding the addition of ice to the concrete mix, is considered incidental to the work and will not be measured or paid for separately.

Schedule of Items

Attached, dated September 7, 2017, are the revised Schedule of Items Page 33.

Plan Sheets

The following 8½ x 11-inch sheets are attached and made part of the plans for this proposal:
Revised: 456, 482, and 869

END OF ADDENDUM

Division	From/To Station	Location	Excavation Common (1)	Excavation item 205.0100 (3)	Salvaged/Unusable Pavement Material (4)	Available Material (5)	Reduced EBS in Fill (6)	Expanded EBS Backfill (7)	Estimated Disposal Area Outside 1:1 Slope (8)	Unexpanded Fill	Expanded Fill (9)	Mass Ordinate +/- (10)	Waste	Comment:
1	38RY+48 TO 60RY+42	RYAN RD	7,710	0	2,835	4,875	0	0	0	14,752	17,703	-12,828	-12,828	
	249RYA+00 TO 255RYA+50	RAMP RYA	2,205	0	1,739	465	0	0	0	1,770	2,124	-1,659	-1,659	
	248RYD+04 TO 254RYD+00	RAMP RYD	8,241	0	0	8,241	0	0	0	6,799	8,158	83	83	
	253+91.05 TO 260+15.31	RAMP RYATA	2,684	0	0	2,684	0	0	0	2,121	2,545	139	139	
	254+00.00 TO 258+97.51	RAMP RADTA	694	0	0	694	0	0	0	2,373	2,848	-2,154	-2,154	
	261RYATB+00 TO 287RYATB+00	RAMP RYATB	17,817	0	646	17,172	0	0	0	599	719	16,453	16,453	
	259RYDTB+00 TO 285RYDTB+59	RAMP RYDTB	16,200	0	772	15,428	0	0	0	589	707	14,721	14,721	
Division 1 Subtotal			55,551	0	5,992	49,559	0	0	0	29,003	34,804	14,755	14,755	
2	24RY+39 TO 79RY+53	RYAN RD	8,707	0	2,849	5,858	0	0	0	13,296	15,956	-10,098	-10,098	
	255RYA+50 TO 261RYA+00	RAMP RYA	8,501	0	2,505	5,995	0	0	0	2,310	2,771	3,224	3,224	
	237RYB+50 TO 248RYB+60	RAMP RYB	15,097	0	292	14,805	0	0	0	1,986	2,383	12,422	12,422	
	237RYC+50 TO 248RYC+57	RAMP RYC	5,240	0	0	5,240	0	0	0	1,647	1,976	3,263	3,263	
	254RYD+00 TO 256RYD+83	RAMP RYD	5,279	0	0	5,279	0	0	0	3,446	4,135	1,143	1,143	
	257RYDTB+00 TO 285RYDTB+59	RAMP RYDTB	1,121	0	0	1,121	0	0	0	388	465	656	656	
	247+42 TO 265+80	MAINLINE	5,270	0	816	4,453	0	0	0	7	8	4,445	4,445	
	10NWDP+65 TO 16NWDP+25	NWDP	20,203	0	0	20,203	0	0	0	130	156	20,048	20,048	
	51SEDP+50 TO 55EDP+50	SEDP	77	0	0	77	0	0	0	11	13	64	64	
	11NEPR+50 TO 17NEPR+80	NEPR	4,042	0	4,730	-688	0	0	0	22,879	27,454	-28,142	-28,142	
	3SWS+00 TO 12SWS+07	SWS	7,780	0	0	7,780	0	0	0	0	0	7,780	7,780	
Division 2 Subtotal		UNDISTRIBUTED	81,316	0	11,192	70,124	0	0	0	46,098	55,318	14,806	14,806	
Grand Total		Total Excavation Common	136,868	2,000	17,185	119,683	0	0	0	75,101	90,122	29,561	29,561	

EARTHWORK SUMMARY NOTES:

- Common Excavation is the sum of the Cut and EBS Excavation columns. Item number 205.0100
- Salvaged/Unusable Pavement Material is included in Cut.
- EBS Excavation to be backfilled with Borrow or Cut.
- ~~Salvaged/Unusable Pavement Material - Not shown in Earthwork-Detail-Sheets~~
- Available Material = Cut - Salvaged/Unusable Pavement Material
- Reduced EBS in Fill - Excavated EBS material is usable in Fills outside the 1:1 slope. EBS in Fill Reduction factor = 0.8
- Expanded EBS Backfill - This is to be filled with Borrow or Cut material. EBS Backfill Factor = 1.3.
- The estimated area outside the 1:1 fill slopes where excavated EBS or excess topsoil material is placed.
Expanded Fill = (Unexpanded Fill - Reduced EBS) * Fill Factor
If Reduced EBS > than volume available outside of the 1:1 slope
Subtract only available volume. Remaining volume or reduced EBS is considered waste.
- Expanded Fill. Factor = 1.20

10) The Mass Ordinate + or - Qty calculated for the Division. Plus quantity indicates an excess of material within the Division. Minus indicates a shortage of material within the Division. (Incl. Salv/Unusable Pavement Quantities shown in this table)
The Mass Ordinate number will vary between the summary and individual detail sheets due to the Salvaged/Unusable Pavement Material being shown in the summary sheet only.

11) The structural backfill needed to construct the retaining walls has been estimated. The structural backfill quantity has been subtracted from the fill volume in all end area calculations.
The width of the structural backfill off of the back of the wall has been estimated as 0.8 times the height of the retaining walls.

12) Structure Excavation, due to retaining wall construction, (estimated 6900 cy) is not included in this table and should be considered additional waste.

Addendum No. 03
ID 1030-20-85
Revised Sheet 456
September 7, 2017

PAVEMENT MARKING ITEMS

CATEGORY	STAGE	LOCATION	STATION	STATION	STATION	646.0841.S PAVEMENT MARKING GROOVED WET REFLECTIVE CONTRAST TAPE 4-INCH		646.0843.S PAVEMENT MARKING GROOVED WET REFLECTIVE CONTRAST TAPE 8-INCH		646.0842.S PAVEMENT MARKING GROOVED CONTRAST WET REFLECTIVE EPOXY 4-INCH		646.0844.S PAVEMENT MARKING GROOVED CONTRAST WET REFLECTIVE EPOXY 8-INCH	
						WHITE LF	WHITE LF	WHITE LF	WHITE LF	WHITE LF	WHITE LF	WHITE LF	WHITE LF
1000	2	RYAN ROAD	18RY+25	-	86RY+15								
		IH 94	228+05	-	306+04								
		RAMP RYA	248RYA+00	-	260RYA+90								
		RAMP RYB	234RYB+00	-	248RYB+00								
		RAMP RYC	237RYC+00	-	248RYC+00								
		RAMP RYD	248RYD+79	-	257RYD+00								
		PARK & RDE	10NERR+00	-	18NERR+00								
TOTALS						37	37	560	8,880	13,693	28,196	30,759	8,870

Addendum No. 03
 ID 1030-20-85
 Revised Sheet 482
 September 7, 2017

PAVEMENT MARKING ITEMS

CATEGORY	STAGE	LOCATION	STATION	STATION	STATION	647.0176 PAVEMENT MARKING ARROWS EPOXY TYPE3		647.0166 PAVEMENT MARKING ARROWS EPOXY TYPE2		647.0256 PAVEMENT MARKING SYMBOLS EPOXY		647.0356 PAVEMENT MARKING WORDS EPOXY		647.0456 PAVEMENT MARKING CURB EPOXY		647.0556 PAVEMENT MARKING STORLINE 18-INCH WHITE		647.0606 PAVEMENT MARKING ISLAND NOSE EPOXY		647.0656 PAVEMENT MARKING PARKING STALL EPOXY		647.0746 PAVEMENT MARKING DIAGONAL EPOXY		647.0766 PAVEMENT MARKING CROSSWALK EPOXY			
						WHITE LF	WHITE LF	WHITE LF	WHITE LF	WHITE LF	WHITE LF	WHITE LF	WHITE LF	WHITE LF	WHITE LF	WHITE LF	WHITE LF	WHITE LF	WHITE LF	WHITE LF	WHITE LF	WHITE LF	WHITE LF	WHITE LF	WHITE LF	WHITE LF	WHITE LF
1000	2	RYAN ROAD	18RY+25	-	86RY+15																						
		IH 94	228+05	-	306+04																						
		RAMP RYA	248RYA+00	-	260RYA+90																						
		RAMP RYB	234RYB+00	-	248RYB+00																						
		RAMP RYC	237RYC+00	-	248RYC+00																						
		RAMP RYD	248RYD+79	-	257RYD+00																						
		PARK & RDE	10NERR+00	-	18NERR+00																						
TOTALS						380	67	8	3	8	433	845	19	10,433	133	2,256											

TOTAL ESTIMATED QUANTITIES

ITEM NO.	BID ITEMS	UNIT	PHASE 1	PHASE 2	TOTAL
209.2100	BACKFILL GRANULAR GRADE 2	CY	10	10	20
516.0500	RUBBERIZED MEMBRANE WATERPROOFING	SY	4	4	8
517.1010.5.0002	STANNING CONCRETE R-40-388	SF	2,270	2,340	4,610
612.0206	PIPE UNDERDRAIN UNPERFORATED 6-INCH	LF	15	---	15
612.0406	PIPE UNDERDRAIN WRAPPED 6-INCH	LF	145	145	290
612.0806	APRON ENDWALLS FOR UNDERDRAIN REINFORCED CONCRETE 6-INCH	EACH	---	1	1
SPV.0060.4120	CONCRETE BASE SLEEVES	EACH	2	65	67
SPV.0090.4310	FENCE DECORATIVE WING	LF	2,270	2,430	4,700
SPV.0065.4610	WALL CONCRETE PANEL MECHANICALLY STABILIZED EARTH LRFD/OMP	SF	2,370	2,430	4,800
SPV.0065.4620	TEMPORARY WALL WIRE FACED MECHANICALLY STABILIZED EARTH LRFD/OMP	SF	40	---	40
NON-BID ITEMS					
	PREFORMED JOINT FILLER	SIZE			3/4", 1"
	NON-BITUMINOUS JOINT SEALER	SIZE			3/4", 1"
	NAME PLATE	EACH			1
	EXPANDED POLYSTYRENE	SIZE			1"

ALL ITEMS ARE CATEGORY 3000

William C. Decker
 09/06/17

WALL EXTERNAL STABILITY EVALUATION

	DIMENSIONS		
WALL HEIGHT (FEET)	25.30	17.30	26.20
EXPOSED WALL HEIGHT (FEET)	22.30	15.80	23.20
MINIMUM LENGTH OF REINFORCEMENT (FEET) *	17.7	13.8	21.0
WALL STATION (R/L RETAINING WALL R-40-388)	0+59	1+44	2+29
CAPACITY TO DEMAND RATIO (CDR)			
SLIDING	1.28	1.04	1.41
ECCENTRICITY	1.44	1.34	1.90
BEARING	1.63	1.07	1.05
GLOBAL STABILITY	1.21	1.10	1.23

* THE LENGTHS PROVIDED IN THE TABLE ARE THE MINIMUM REQUIRED REINFORCEMENT LENGTHS BASED ON THE MINIMUM DESIGN CONDITIONS. THE DESIGN CONDITIONS ORIGINALLY INTENDED FOR THIS WALL WERE UNDESIGNATED LOCATIONS. DESIGN LOCATIONS REPRESENTING TYPICAL AND CRITICAL WALL LOCATIONS, BUT SHALL NOT BE CONSIDERED ALL INCLUDING THE CONTRACTOR DESIGNED LENGTHS SHALL MEET OR EXCEED THE MINIMUM VALUES REPRESENTED IN THE TABLE AT THESE DESIGNATED LOCATIONS.

SOIL PARAMETERS

SOIL DESCRIPTION	UNIT WEIGHT (PCF)	SHORT-TERM (UNDRAINED) FRICTION ANGLE (DEGREES)	COHESION (PSF)	LONG-TERM (DRAINED) FRICTION ANGLE (DEGREES)	COHESION (PSF)
RETAINED FILL	130	0	2000	30	50
LEAN CLAY	130-140	0	1750-3000	30-32	50-100
SILT	130	30	0	30	0
SAND/GRAVEL/SILT	128-133	32	0	32	0
GRAVELLY CLAY	135	0	2000	32	100

THE SOIL PARAMETERS PRESENTED ARE AN ABBREVIATED VERSION OF THE INFORMATION PRESENTED IN THE SOIL TEST REPORT AND RETAINING WALL EVALUATION REPORT. SEE THE ABOVE REPORT FOR ADDITIONAL INFORMATION.

TEMPORARY WALL NOTES

TEMPORARY WALL TO REMAIN FOR DURATION OF STAGE 1 CONSTRUCTION AND TO BE BORED IN STAGE 2 CONSTRUCTION.

NOTE A: LENGTH OF MSE WALL REINFORCING STRIPS MUST BE TOE THE TOP 1/4 WALL HEIGHT OR 6'-0" FEET, WHICHEVER IS GREATER. SOIL REINFORCEMENT MUST EXTEND A MINIMUM OF 3'-0 FEET BEYOND THE FAILURE PLANE FOR INTERNAL STABILITY AS DEFINED BY AASHTO SPECIFICATIONS.

STATE PROJECT NUMBER
 1030-20-85

GENERAL NOTES

DRAWINGS SHALL NOT BE SCALED.
 BEVEL EXPOSED EDGES OF CONCRETE 1/4", UNLESS NOTED OTHERWISE.
 ALL STATIONS AND ELEVATIONS ARE IN FEET, ELEVATIONS ARE REFERENCED TO THE NAVD 88 DATUM.
 ALL DIMENSIONS ARE ALONG THE FRONT FACE OF WALL, UNLESS OTHERWISE SHOWN.

USE 2" CLEAR CONCRETE COVER FOR ALL REINFORCEMENT UNLESS NOTED OTHERWISE.
 EXISTING STRUCTURES ARE NOT SHOWN IN THESE PLANS. THE REMOVAL OF THESE STRUCTURES IS INCLUDED IN A LUMP SUM PAY ITEM AS PART OF THE B-40-809 BRIDGE QUANTITIES.
 THE COST OF FURNISHING AND PLACING MSE BACKFILL WITHIN THE REINFORCED SOIL ZONE IS TO BE INCLUDED IN THE BID ITEM "WALL CONCRETE PANEL MECHANICALLY STABILIZED EARTH".

THESE PLANS ARE FOR A PRECAST CONCRETE PANEL MECHANICALLY STABILIZED EARTH (MSE) RETAINING WALL.
 THE QUANTITIES AND REINFORCEMENT DETAILS ARE BASED ON AN ASSUMED CONCRETE WALL PANEL THICKNESS OF 18 INCHES. FOR PANEL THICKNESSES DIFFERENT FROM 18 INCHES, THE QUANTITIES AND REINFORCEMENT BAR DETAILS AND QUANTITIES WILL BE RESPONSIBLE FOR ANY QUANTITY VARIATIONS.

THE CONTRACTOR MUST COORDINATE THE CONSTRUCTION OF WALL R-40-388 WITH EAST ABUTMENT OF BRIDGE B-40-809.
 THE CONTRACTOR MUST COORDINATE THE CONSTRUCTION OF WALL R-40-388 WITH INSTALLATION OF THE LIGHT POLE BASES. SEE LIGHTING PLANS FOR DETAILS.

THE CONTRACTOR SHALL PROVIDE COMPLETE DESIGN PLANS, DETAILS, SPECIFICATIONS, AND SHOP DRAWINGS FOR THE RETAINING WALL IN ACCORDANCE WITH THE REQUIREMENTS OF THE DESIGN AND CONSTRUCTION MANUAL. THE CONTRACTOR SHALL PROVIDE TECHNICAL ASSISTANCE TO THE MANUFACTURER DURING CONSTRUCTION. THE COST OF FURNISHING MECHANICALLY STABILIZED EARTH LRFD/OMP.

THE COST OF FURNISHING AND PLACING THE UNREINFORCED CONCRETE FOR THE BID ITEM "WALL CONCRETE PANEL MECHANICALLY STABILIZED EARTH LRFD/OMP".

ALL BAR STEEL REINFORCEMENT IN CAST-IN-PLACE CONCRETE IS TO BE EPOXY COATED.

THE PLAN QUANTITY FOR THE ITEM "WALL CONCRETE PANEL MECHANICALLY STABILIZED EARTH" IS BASED ON A WALL HEIGHT MEASURED FROM THE TOP OF THE LEVELING PAD TO THE TOP OF THE WALL. AS SHOWN IN THE PLANS, THE WALL SEGMENTS A, D AND 1'-6" BELOW FINISHED GRADE AT WALL SECTIONS B & C.

THE QUANTITIES OF CONCRETE MASONRY AND BAR STEEL REINFORCEMENT FOR THE CAST-IN-PLACE COPING ARE INCIDENTAL TO THE BID ITEM "WALL CONCRETE PANEL MECHANICALLY STABILIZED EARTH, LRFD/OMP".

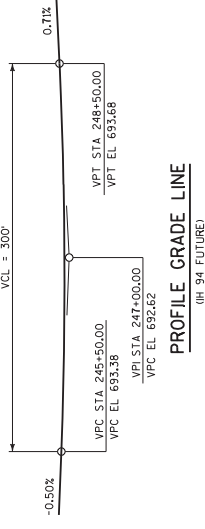
PLANS, ELEVATIONS, AND DETAILS SHOWN ON THESE DRAWINGS ARE INTENDED TO INDICATE WALL LOCATIONS, LENGTHS, HEIGHTS, AND DETAILS COMMON TO ALL WALL SYSTEMS SELECTED WILL CONFORM TO THE REQUIRED ALIGNMENTS AND DETAILS.

THE MAXIMUM VALUE OF THE ANGLE OF INTERNAL FRICTION OF THE WALL BACKFILL MATERIAL IN THE REINFORCED ZONE SHALL BE ASSUMED TO BE 30° WITHOUT CERTIFIED TEST VALUES.

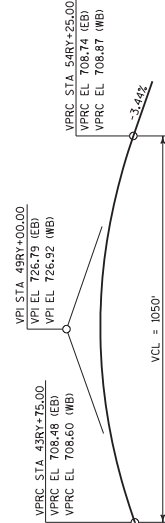
UNSATURABLE MATERIAL UNDER THE REINFORCED SOIL ZONE SHALL BE REMOVED AS DIRECTED BY THE ENGINEER AND REPLACED WITH GRANULAR MATERIAL. THE BID ITEM "BACKFILL GRANULAR GRADE 2".

SEE B-40-809 PLANS FOR BORING LOGS AND SUBSURFACE INFORMATION.

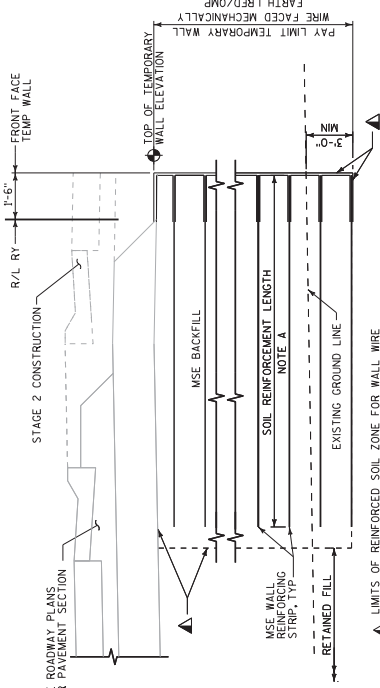
VCL = 300'



PROFILE GRADE LINE
 (IN 94 FUTURE)

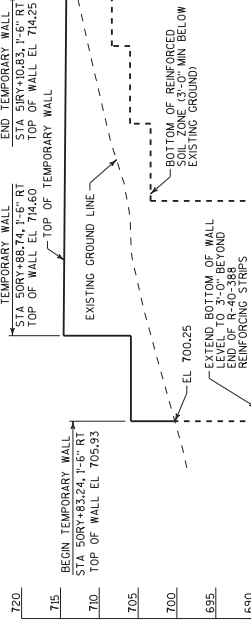


PROFILE GRADE LINE
 (BRYAN ROAD)



TYPICAL SECTION AT TEMPORARY WALL
 (LOOKING EAST)

▲ LIMITS OF REINFORCED SOIL ZONE FOR WALL WIRE FACED MECHANICALLY STABILIZED SOIL REINFORCEMENT.



ELEVATION AT TEMPORARY WALL
 (LOOKING NORTH)

▲ TEMPORARY WALL WIRE FACED MECHANICALLY STABILIZED EARTH LRFD/OMP

Addendum No. 03
 ID 1030-20-85
 Revised Sheet 869
 September 7, 2017



REVISED	9/5/17	REVISED QUANTITY	EXAM
BY		REVISION	
STATE OF WISCONSIN DEPARTMENT OF TRANSPORTATION			
STRUCTURE R-40-388			
PLANS	TEK	EXAM	
QUANTITIES, GENERAL NOTES, AND PROFILE GRADE LINES			869



Proposal Schedule of Items

Proposal ID: 20170912011 Project(s): 1030-20-85, 1030-26-72

Federal ID(s): N/A, WISC 2017485

SECTION: 0001 Roadway Items

Alt Set ID: Alt Mbr ID:

Proposal Line Number	Item ID Description	Approximate Quantity and Units	Unit Price	Bid Amount
0946	SPV.0090 Special 1003. Temporary Overhead Cable Triplex 4 AWG	5,840.000 LF	_____.	_____.
0948	SPV.0090 Special 1004. Removing Overhead Lighting Cable	225.000 LF	_____.	_____.
0950	SPV.0090 Special 4300. FENCE DECORATIVE BRIDGE	350.000 LF	_____.	_____.
0952	SPV.0090 Special 4310. FENCE DECORATIVE WING	264.000 LF	_____.	_____.
0954	SPV.0090 Special 4320. PILING SLEEVES	1,068.000 LF	_____.	_____.
0956	SPV.0105 Special 0001. SURVEY PROJECT ID 1030-20-85	LS	LUMP SUM	_____.
0958	SPV.0105 Special 0002. Rootstock Protection Project 1030-26-72	LS	LUMP SUM	_____.
0960	SPV.0105 Special 0003. Concrete Pavement Joint Layout	LS	LUMP SUM	_____.
0962	SPV.0105 Special 0004. Rootstock Protection Project 1030-20-85	LS	LUMP SUM	_____.
0964	SPV.0105 Special 0005. Survey Project ID 1030-26-72	LS	LUMP SUM	_____.
0966	SPV.0105 Special 1000. Lighting System Integrator	LS	LUMP SUM	_____.
0968	SPV.0105 Special 1002. Maintenance of Lighting Systems	LS	LUMP SUM	_____.
0970	SPV.0105 Special 3001. Remove Traffic Signals IH 94 EB Ramps & STH 100	LS	LUMP SUM	_____.

