



Wisconsin Department of Transportation

Division of Transportation Systems Development

Bureau of Project Development
4822 Madison Yards Way, 4th Floor South
Madison, WI 53705

January 11, 2019

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NOTICE TO ALL CONTRACTORS:

Proposal #22: 9266-11-01, WISC 2019 078
V Ashwaubenon, Cormier Rd
Oneida St to Ashland Ave
Local Street
Brown County

Letting of January 15, 2019

This is Addendum No. 01, which provides for the following:

Special Provisions:

Added Special Provisions	
Article No.	Description
55	Optimized Aggregate Gradation Incentive, Item 715.0710
56	Flexural Strength for Concrete Mix Design

Schedule of Items:

Revised Bid Item Quantities					
Bid Item	Item Description	Unit	Old Quantity	Revised Quantity	Proposal Total
465.0120	Asphaltic Surface Driveways and Field Entrances	Ton	365	-35	330

Added Bid Item Quantities					
Bid Item	Item Description	Unit	Old Quantity	Revised Quantity	Proposal Total
465.0125	Asphaltic Surface Temporary	Ton	0	35	35
715.0710	Optimized Aggregate Gradation Incentive	DOL	0	18,373	18,373

Plan Sheets:

Revised Plan Sheets	
Plan Sheet	Plan Sheet Title (brief description of changes to sheet)
82	Miscellaneous Quantities (Added asphaltic surface temporary)
83	Miscellaneous Quantities (Revised quantities and added pavement thickness)

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. 01

9266-11-01

January 11, 2019

Special Provisions

55. Optimized Aggregate Gradation Incentive, Item 715.0710.

Description

This special provision describes optional contractor optimized aggregate gradation, optional optimized mixture designs, and associated additional requirements for class 1 concrete used in concrete pavements. Conform to standard specification part 7 and as follows:

Optimized Aggregate Gradation

A Job Mix Formula (JMF) contains all of the following:

Proportions for each aggregate fraction conforming to table 1.

Individual gradations for each aggregate fraction.

Composite gradation of the combined aggregates including working ranges on each sieve in accordance with table 2.

Submit the target JMF and aggregate production gradation test results to the engineer for review 10 business days before initial concrete placement.

TABLE 1 TARANTULA CURVE GRADATION BAND

SIEVE SIZES	PERCENT RETAINED
2 in.	0
1 1/2 in.	≤5
1 in.	≤16
3/4 in.	≤20
1/2 in.	4-20
3/8 in.	4-20
No. 4	4-20
No. 8 ^[1]	≤12
No. 16 ^[1]	≤12
No. 30 ^{[1] [2]}	4-20
No. 50 ^[2]	4-20
No. 100 ^[2]	≤10
No. 200 ^[2]	≤2.3

^[1] Minimum of 15% retained on the sum of the #8, #16, and #30 sieves.

^[2] Conform to 24-34% retained of fine sand on the #30-200 sieves.

TABLE 2 JMF WORKING RANGE

SIEVE SIZES	WORKING RANGE ^[1] (PERCENT)
2 in.	+/- 5
1 1/2 in.	+/- 5
1 in.	+/- 5
3/4 in.	+/- 5
1/2 in.	+/- 5
3/8 in.	+/- 5
No. 4	+/- 5
No. 8	+/- 4
No. 16	+/- 4
No. 30	+/- 4
No. 50	+/- 3
No. 100	+/- 2
No. 200	≤ 2.3

^[1] Working range limits of composite gradation based on moving average of 4 tests.

Test each component aggregate once per 1,500 cubic yards during concrete production. Take samples by one of the following sampling methods:

1. At the belt leading to the weigh hopper.
2. Working face of the stock piles at the concrete plant if approved by the engineer.

The department will take independent QV samples using the same sampling method the contractor uses for QC sampling. QV samples may be taken by the contractor's QC personnel if witnessed by the department's QV personnel. The department will split each QV sample and retain half for all dispute resolutions. If QV test results conform to the specification, the department will take no further action. If QV test results are nonconforming, add the QV to the QC test results as if it were an additional QC test.

If, during concrete production, the moving average of four for any sieve fall outside the allowable JMF working range do the following:

1. Notify the engineer of the test results within 1 business day from the time of sampling.
2. Make immediate adjustments to the JMF, within the limits specified in Table 3;
3. Review JMF adjustments with the engineer. Both the contractor and engineer will sign the adjusted JMF if the adjustments comply with Table 3.
4. If the moving average of four falls outside the adjusted allowable working range, stop production and provide a new mix design including JMF to the engineer.

TABLE 3 ALLOWABLE JMF ADJUSTMENTS

SIEVE SIZES	ALLOWABLE ADJUSTMENT (PERCENT)
≥ No. 4	+/- 5
No. 8 – No. 30	+/- 4
No. 50	+/- 3
No. 100	+/- 2

Dispute Resolution

The department will resolve disputes as specified in standard spec 106.3.4.3.5 using QV split samples.

Sublot and Lot Size

A sublot consists of up to 1,500 cubic yards. A lot consists of two sublots.

Optimized Concrete Mixtures

The contractor may use a reduced cementitious content for concrete pavement placed if the contractor does the following:

1. Use an optimized aggregate gradation as defined in this special provision.
2. Conform to the additional testing requirements for flexural strength as specified in the contract special provisions.
3. Submit aggregate gradation result records no more than 2 years old when developing the mix design.
4. Determine the volume of voids in the optimized aggregates using ASTM C29.
5. Download and follow the instructions tab of the Optimized Gradation and Mix Design Spreadsheet located at: <http://wisconsindot.gov/Pages/doing-bus/eng-consultants/cnslt-rsrcs/qmp/default.aspx>
6. Design an appropriate paste content based upon the Performance-based PCC Mix Design Guide located at: <http://wisconsindot.gov/Pages/doing-bus/eng-consultants/cnslt-rsrcs/qmp/default.aspx>
7. Provide a minimum V_{paste}/V_{voids} of 1.25. (Paste/Void ratio equals the volume of paste divided by the volume of voids.)
8. Evaluate workability of trial batches by following section 6.8 of AASHTO Draft Performance Engineered Concrete Pavement Mixtures Specifications located at: <http://wisconsindot.gov/Pages/doing-bus/eng-consultants/cnslt-rsrcs/qmp/default.aspx>
9. Submit trial batch workability results when submitting the mix design.
10. Submit the CP Tech center computer spreadsheet concrete mix design to the engineer for review at least 3 business days before producing concrete.
11. Provide a minimum cement content of 520 pounds per cubic yard, except if using type I, II, or III cement in a mix where the geologic composition of the coarse aggregate is primarily igneous or metamorphic materials, provide a minimum cement content of 660 pounds per cubic yard.
12. The contractor may use class C fly ash or grade 100 or 120 slag as a partial replacement for cement. For binary mixes use up to 30% fly ash or slag. For ternary mixes use up to 30% fly ash plus slag in combination. Replacement values are in percent by weight of the total cementitious material in the mix.
13. See CMM 8-70.2.2.3 for additional guidance.

Measurement

The department will measure Optimized Aggregate Gradation Incentive by the dollar, for each combined averaged lot of QC test results meeting Table 1.

Payment

The department will pay incentive of 3 percent of the contract unit price for concrete pavement under the following bid item:

ITEM NUMBER	DESCRIPTION	UNIT
715.0710	Optimized Aggregate Gradation Incentive	DOL
stp-715-005 (20180628)		

56. Flexural Strength for Concrete Mix Design.

This special provision describes optional testing requirements for flexural strength during the mix design process. Conform to standard spec part 7 as modified in this special provision.

Add the following to standard spec table 701-2:

TEST	TEST STANDARD
Flexural Strength of Concrete	AASHTO T97

Replace 715.2.3.1(1) with the following:

- (1) Provide both compressive and flexural strength information to demonstrate the strength of the proposed mix design. Use either laboratory strength data for new mixes or field strength data for established mixes as follows:
1. Use at least 5 pairs of cylinders for compressive strength. Demonstrate that the 28-day compressive strength will equal or exceed the 85 percent within limits criterion specified in 715.5.2.
 2. Use at least 5 pairs of beams for flexural strength. Demonstrate that the 28-day flexural strength will equal or exceed 650 psi.

stp-715-010 (20170615)

Schedule of Items

Attached, dated January 11, 2019, are the revised Schedule of Items Pages 1 – 16.

Plan Sheets

The following 8½ x 11-inch sheets are attached and made part of the plans for this proposal:
Revised: 82 and 83.

END OF ADDENDUM

REMOVING MANHOLES

STATION	LOCATION	204.0210 EA
51+00	CORMIER ROAD, RT	1
80+50	CORMIER ROAD, RT	1
82+40	CORMIER ROAD, RT	1
100+43	FOX HEIGHTS LANE, RT	1
200+46	HOLMIGREN WAY, RT	1
TOTAL		5

REMOVING INLETS

STATION	LOCATION	204.0220 EA
52+79	CORMIER ROAD, LT & RT	2
54+56	CORMIER ROAD, LT	1
56+91	CORMIER ROAD, LT & RT	2
80+01	CORMIER ROAD, RT	2
80+04	CORMIER ROAD, LT	1
63+35	CORMIER ROAD, LT	1
67+68	CORMIER ROAD, LT & RT	2
70+50	CORMIER ROAD, LT & RT	2
73+86	CORMIER ROAD, LT & RT	2
78+20	CORMIER ROAD, LT & RT	2
100+46	FOX HEIGHTS LANE, RT	1
200+64	HOLMIGREN WAY, LT & RT	2
TOTAL		20

REMOVING STORM SEWER

STATION	TO	STATION	LOCATION	204.0245.01		204.0245.02		204.0245.03		204.0245.04		204.0245.05		204.0245.06	
				LF	OR LESS	LF	15-INCH	18-INCH	24-INCH	30-INCH	42-INCH	LF	LF	LF	LF
50+66	-	54+85	CORMIER ROAD	259	-	55	-	-	-	-	-	65	-	-	-
54+85	-	63+30	CORMIER ROAD	332	-	135	5	-	-	-	-	-	-	-	-
63+30	-	78+20	CORMIER ROAD	444	-	-	5	-	-	-	-	-	-	-	-
78+20	-	82+62	CORMIER ROAD	50	-	-	5	-	-	-	-	-	-	-	210
TOTALS				1,085		190	10	15	15	65	65				210

Addendum No. 01
ID 9266-11-01
Revised Sheet 82
January 11, 2019

REMOVING RETAINING WALL

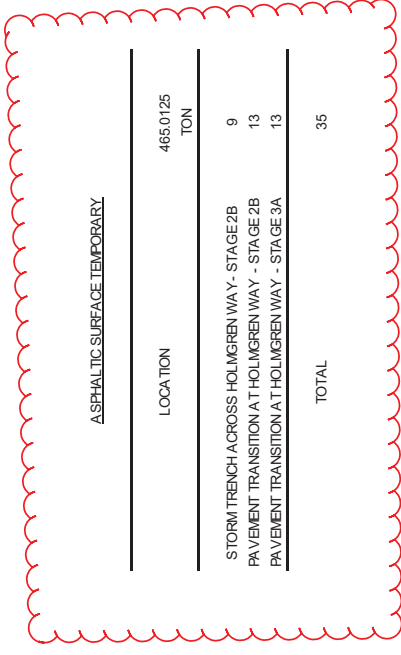
STATION	TO	STATION	LOCATION	204.9090.S.01 QUANTITY LF
67+95	-	68+55	CORMIER ROAD, LT	60
TOTAL				60

ABANDONING MANHOLES

STATION	LOCATION	204.0250 EA
51+03	CORMIER ROAD, RT	1
52+80	CORMIER ROAD, RT	1
54+86	CORMIER ROAD, RT	1
54+85	CORMIER ROAD, LT	1
56+03	CORMIER ROAD, RT	1
56+92	CORMIER ROAD, RT	1
60+01	CORMIER ROAD, RT	1
63+33	CORMIER ROAD, RT	1
64+18	CORMIER ROAD, RT	1
67+68	CORMIER ROAD, RT	1
68+34	CORMIER ROAD, RT	1
70+52	CORMIER ROAD, RT	1
72+00	CORMIER ROAD, RT	1
73+87	CORMIER ROAD, RT	1
78+20	CORMIER ROAD, RT	1
80+34	CORMIER ROAD, RT	1
TOTAL		16

ABANDONING SEWER

STATION	TO	STATION	LOCATION	204.0291.S QUANTITY CY
51+00	-	51+03	CORMIER ROAD	5
51+03	-	52+80	CORMIER ROAD	36
52+80	-	54+86	CORMIER ROAD	42
54+86	-	56+03	CORMIER ROAD	24
56+03	-	56+92	CORMIER ROAD	18
56+92	-	60+01	CORMIER ROAD	89
60+01	-	63+33	CORMIER ROAD	96
63+33	-	64+18	CORMIER ROAD	25
64+18	-	67+68	CORMIER ROAD	101
67+68	-	68+34	CORMIER ROAD	20
68+34	-	70+52	CORMIER ROAD	63
70+52	-	72+00	CORMIER ROAD	59
72+00	-	73+87	CORMIER ROAD	74
73+87	-	78+20	CORMIER ROAD	170
78+20	-	80+34	CORMIER ROAD	84
TOTALS				906.0



ALL ITEMS ARE CATEGORY 0010 UNLESS OTHERWISE STATED

Addendum No. 01
 ID 9266-11-01
 Revised Sheet 83
 January 11, 2019

EARTHWORK SUMMARY

Division	From To Station	Location	Common Excavation (1)		EBS Excavation (3)	Unexpanded Fill	Expanded EBS Backfill (11)		Expanded Fill (13) Factor 1.43	Mass Ordinate +/- (14)	Waste	Comment:
			Cut	Fill			Factor	Location				
1	50+40 - 82+50 50+40- 54+30 67+70 - 82+80	CORMIER ROAD CORMIER ROAD CORMIER ROAD UNDIS TRIBUTED	10,525		1,465 5,100 1,000	14	1,905 6,630 1,300	20	10,505	10,505 1,465 5,100 1,000		
Division 1 Total			10,525		7,565	14	9,835	20	10,505	18,070		
Total Common Exc.			18,090									

- 1) Common Excavation is the sum of the Cut and EBS Excavation columns. Item number 205.0100
 2) Concrete pavement is included in Common Excavation quantity
 3) EBS Excavation to be backfilled with Select Borrow material.
 11) Expanded EBS Backfill - This is to be filled with Select Borrow material. EBS Backfill Factor = 1.3. Item number 208-11000
 13) Expanded Fill. Factor = 1.3. Expanded Fill = Unexpanded Fill * Fill Factor
 14) The Mass Ordinate +/- or - Qty calculated for the section. Plus quantity indicates an excess of material within the section. Minus indicates a shortage of material within the section.

BASE AGGREGATE DENSE AND WATER

STATION TO	STATION	LOCATION	305.0120 1 1/4-INCH TON	624.0100 WATER MGAL
50+35 -	55+00	CORMIER ROAD	1,330	14
55+00 -	63+75	CORMIER ROAD	2,200	22
63+75 -	76+50	CORMIER ROAD	3,306	34
76+50 -	82+82	CORMIER ROAD	1,625	17
100+26 -	100+60	FOX HEIGHTS LANE	65	1
100+60 -	100+65	FOX HEIGHTS LANE	20	1
199+30 -	199+68	HOLMGREN WAY	115	2
200+32 -	200+80	HOLMGREN WAY	140	2
400+26 -	401+00	FRONTAGE ROAD	45	1
401+00 -	401+05	FRONTAGE ROAD	19	1
UNDISTRIBUTED	MAINTAINING ACCESS		1,500	-
ENTIRE PROJECT	DUST CONTROL		-	105
TOTALS			10,365	200

STATION TO	STATION	LOCATION	405.0100 COLORING CONCRETE WISDOT RED CY	415.0090 CONCRETE PAVEMENT 9-INCH SY	415.1090 CONCRETE PAVEMENT HES 9-INCH SY	415.4100 JOINT FILLING BARS EACH	416.0620 DRILLED DOWEL BARS EACH
50+35 -	55+00	CORMIER ROAD	11	2,658	2	507	3,371
55+00 -	63+75	CORMIER ROAD	13	4,367	6	1,115	5,840
63+75 -	76+50	CORMIER ROAD	13	6,100	6	1,588	8,226
76+50 -	82+82	CORMIER ROAD	-	3,240	3	546	4,042
100+26 -	100+60	FOX HEIGHTS LANE	-	144	-	159	-
199+30 -	199+68	HOLMGRENWAY	13	-	-	294	312
200+32 -	200+80	HOLMGRENWAY	13	-	-	360	380
400+26 -	401+00	FRONTAGE ROAD	-	106	-	120	-
TOTALS			63	16,615	17	4,410	22,450

ASPHALTIC PAVEMENT

STATION TO	STATION	LOCATION	PAVEMENT THICKNESS INCHES	465.0105 ASPHALTIC SURFACE TON	465.0120 ASPHALTIC SURFACE DRIVEWAYS AND FIELD ENTRANCES TON	COMMENT
100+60 -	100+65	FOX HEIGHTS LANE	3	28	-	
401+00 -	401+05	FRONTAGE ROAD	3	27	-	
50+72 -	52+43	CORMIER ROAD, RT	3	-	4	CE - WALGREENS
52+50 -	52+76	CORMIER ROAD, RT	3	-	3	CE - WALGREENS
52+76 -	53+25	CORMIER ROAD, RT	3	-	19	CE - AMERICAN FAMILY
52+94 -	53+44	CORMIER ROAD, LT	3	-	6	CE - AT&T STRIP WALL
55+00 -	55+44	CORMIER ROAD, RT	3	-	4	CE - INTEGRATED PA N SOLUTIONS
55+60 -	56+28	CORMIER ROAD, RT	3	-	2	CE - BAY PARK VILLAGE APARTMENTS
56+36 -	56+73	CORMIER ROAD, LT	3	-	2	CE - PAMFINS DECORATING
57+26 -	58+13	CORMIER ROAD, RT	3	-	8	CE - JCPENNEY
57+77 -	58+13	CORMIER ROAD, LT	3	-	10	CE - AMERICAN MORTGAGE
59+24 -	59+66	CORMIER ROAD, LT	3	-	5	CE - CREATIVE HAIR DESIGNS
59+78 -	30+09	CORMIER ROAD, LT	3	-	2	CE - CORMIER KINDERCARE
60+34 -	61+95	CORMIER ROAD, LT	3	-	12	CE - CORMIER KINDERCARE
65+41 -	65+81	CORMIER ROAD, RT	3	-	20	CE - LOCATE STAFFING
65+68 -	66+08	CORMIER ROAD, LT	3	-	4	CE
66+36 -	66+79	CORMIER ROAD, RT	3	-	11	CE - RAY ROTTER MUSEUM
67+63 -	67+89	CORMIER ROAD, RT	3	-	3	CE - HARBOR WEALTH MANAGEMENT
70+14 -	70+52	CORMIER ROAD, RT	3	-	5	CE - GORDMANS
70+53 -	70+72	CORMIER ROAD, LT	3	-	5	CE - KOEHLER FLOORING
71+80 -	79+75	CORMIER ROAD, RT	4	-	140	CE - PA PER CONVERTING
74+30 -	74+67	CORMIER ROAD, LT	3	-	7	CE - ROYAL MONTESSORI ACADEMY
76+27 -	76+86	CORMIER ROAD, LT	3	-	15	COLLAER CT
78+46 -	80+75	CORMIER ROAD, LT	4	-	38	CE - CONGER INDUSTRIES
80+53 -	80+88	CORMIER ROAD, RT	3	-	5	CE - PA PER CONVERTING
TOTALS				55	330	

ALL ITEMS ARE CATEGORY 0010 UNLESS OTHERWISE STATED



Proposal Schedule of Items

Proposal ID: 20190115022 Project(s): 9266-11-01

Federal ID(s): WISC 2019078

SECTION: 0001

Contract Items

Alt Set ID:

Alt Mbr ID:

Proposal Line Number	Item ID Description	Approximate Quantity and Units	Unit Price	Bid Amount
0064	465.0120 Asphaltic Surface Driveways and Field Entrances	330.000 TON	_____.	_____.
0066	520.8000 Concrete Collars for Pipe	9.000 EACH	_____.	_____.
0068	601.0105 Concrete Curb Type A	30.000 LF	_____.	_____.
0070	601.0407 Concrete Curb & Gutter 18-Inch Type D	20.000 LF	_____.	_____.
0072	601.0409 Concrete Curb & Gutter 30-Inch Type A	140.000 LF	_____.	_____.
0074	601.0452 Concrete Curb & Gutter Integral 30-Inch Type D	5,435.000 LF	_____.	_____.
0076	601.0555 Concrete Curb & Gutter 6-Inch Sloped 36-Inch Type A	32.000 LF	_____.	_____.
0078	601.0600 Concrete Curb Pedestrian	210.000 LF	_____.	_____.
0080	602.0405 Concrete Sidewalk 4-Inch	29,125.000 SF	_____.	_____.
0082	602.0415 Concrete Sidewalk 6-Inch	1,400.000 SF	_____.	_____.
0084	602.0505 Curb Ramp Detectable Warning Field Yellow	170.000 SF	_____.	_____.
0086	602.0605 Curb Ramp Detectable Warning Field Radial Yellow	32.000 SF	_____.	_____.
0088	608.0312 Storm Sewer Pipe Reinforced Concrete Class III 12-Inch	562.000 LF	_____.	_____.
0090	608.0315 Storm Sewer Pipe Reinforced Concrete Class III 15-Inch	206.000 LF	_____.	_____.
0092	608.0318 Storm Sewer Pipe Reinforced Concrete Class III 18-Inch	130.000 LF	_____.	_____.



Proposal Schedule of Items

Proposal ID: 20190115022 Project(s): 9266-11-01

Federal ID(s): WISC 2019078

SECTION: 0001

Contract Items

Alt Set ID:

Alt Mbr ID:

Proposal Line Number	Item ID Description	Approximate Quantity and Units	Unit Price	Bid Amount
0398	SPV.0090 Special 09. Storm Sewer Laterals PVC 10-Inch	94.000 LF	_____.	_____.
0400	SPV.0090 Special 10. Storm Sewer Laterals PVC 12-Inch	199.000 LF	_____.	_____.
0402	SPV.0090 Special 11. Reinforced Concrete Horizontal Elliptical Class HE-IV 38x60-Inch	664.000 LF	_____.	_____.
0404	SPV.0105 Special 01. Traffic Signal Cabinet & Controller, Cormier Rd & Holmgren Way	LS	LUMP SUM	_____.
0406	SPV.0105 Special 02. Remove Traffic Signals, Cormier Rd & Oneida St	LS	LUMP SUM	_____.
0408	SPV.0105 Special 03. Remove Traffic Signals, Cormier Rd & Holmgren Way	LS	LUMP SUM	_____.
0410	SPV.0105 Special 04. Remove Loop Detector Wire and Lead-In Cable, Cormier Rd & Oneida St	LS	LUMP SUM	_____.
0412	SPV.0105 Special 05. Remove, Salvage And Reinstall Traffic Signal Equipment, Cormier Rd & Oneida	LS	LUMP SUM	_____.
0414	SPV.0105 Special 06. Remove, Salvage and Reinstall Vehicular Video Detection System, Cormier Rd &	LS	LUMP SUM	_____.
0416	SPV.0105 Special 07. Install Village Furnished Monotube Arm and Pole	LS	LUMP SUM	_____.
0418	SPV.0105 Special 08. Remove Signal (STH 32 & Cormier Rd)	LS	LUMP SUM	_____.
0420	SPV.0180 Special 01. Shredded Hardwood Bark Mulch	10.000 SY	_____.	_____.



Proposal Schedule of Items

Proposal ID: 20190115022 Project(s): 9266-11-01
Federal ID(s): WISC 2019078

SECTION: 0001 Contract Items

Alt Set ID: Alt Mbr ID:

Proposal Line Number	Item ID Description	Approximate Quantity and Units	Unit Price	Bid Amount
0422	465.0125 Asphaltic Surface Temporary	35.000 TON	_____.	_____.
0424	715.0710 Optimized Aggregate Gradation Incentive	18,373.000 DOL	1.00000	18,373.00
Section: 0001			Total:	_____.
			Total Bid:	_____.

