



Planning & Engineering
Office of Project Development
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November 5, 2024

ADDENDUM NO. 3

**RE: Item #7, November 6, 2024 Letting - PT 0908(105)349, PCN 07W6, Hanson, McCook County
- Spot Grading, PCC Surfacing, Crossover, Structures (8x8 CIP or Precast RCBC, 2-9x4
Precast RCBC, 11x5 Precast RCBC)**

TO WHOM IT MAY CONCERN:

The following addenda to the plans shall be inserted and made a part of your proposal for the referenced project.

SPECIAL PROVISIONS: NO CHANGE

SDEBS BID PROPOSAL: *The electronic bid proposal for this contract has been revised to include the changes associated with this addendum. Bidders must log in to the SDEBS to retrieve and incorporate these changes into their bid.*

Quantities for Bid Items were changed:

Bid Item 120E6200 "Water for Granular" changed from 338.7 to 348.4 MGal

Bid Item 260E1010 "Base Course" changed from 3,456.0 to 4,253.6 Ton

Bid Item 320E1200 "Asphalt Concrete Composite" changed from 1,508.4 to 2,093.8 Ton

PLANS: Please destroy sheets A2, F2, F6, & F8 and replace with the enclosed sheets, dated 11/5/24.

Sheets A2 & F2:

Quantities for Bid Items were changed:

Bid Item 120E6200 "Water for Granular" changed from 338.7 to 348.4 MGal

Bid Item 260E1010 "Base Course" changed from 3,456.0 to 4,253.6 Ton

Bid Item 320E1200 "Asphalt Concrete Composite" changed from 1,508.4 to 2,093.8 Ton

Sheet F6:

TABLE OF MATERIAL QUANTITIES was revised.

Sheet F8:

TABLE OF ADDITIONAL QUANTITIES was revised.

Sincerely,

Sam Weisgram
Engineering Supervisor

SW/cj

CC: Travis Dressen, Mitchell Region Engineer
Jay Peppel, Mitchell Area Engineer

ESTIMATE OF QUANTITIES AND ENVIRONMENTAL COMMITMENTS

STATE OF SOUTH DAKOTA	PROJECT	SHEET	TOTAL SHEETS
	PT 0908(105)349	A2	A5
Plotting Date: 11/05/2024		Rev 11-05-2024 JRF	

Section E – Structure

Structure Numbers 44-052-140 & 44-065-126

BID ITEM NUMBER	ITEM	QUANTITY	UNIT
420E0200	Structure Excavation, Box Culvert	112	CuYd
421E0200	Box Culvert Undercut	437	CuYd
560E0156	11'x5' Precast Concrete Box Culvert, Furnish	44.0	Ft
560E0157	11'x5' Precast Concrete Box Culvert, Install	44.0	Ft
560E1156	11'x5' Precast Concrete Box Culvert End Section, Furnish	2	Each
560E1157	11'x5' Precast Concrete Box Culvert End Section, Install	2	Each
560E2090	2-9'x4' Precast Concrete Box Culvert, Furnish	170.0	Ft
560E2091	2-9'x4' Precast Concrete Box Culvert, Install	170.0	Ft
560E3090	2-9'x4' Precast Concrete Box Culvert End Section, Furnish	2	Each
560E3091	2-9'x4' Precast Concrete Box Culvert End Section, Install	2	Each
700E0210	Class B Riprap	95.8	Ton
831E0110	Type B Drainage Fabric	122	SqYd
831E0300	Reinforcement Fabric (MSE)	496	SqYd

Structure Number 44-054-126 Alternate A

BID ITEM NUMBER	ITEM	QUANTITY	UNIT
420E0200	Structure Excavation, Box Culvert	76	CuYd
421E0200	Box Culvert Undercut	312	CuYd
460E0120	Class A45 Concrete, Box Culvert	214.1	CuYd
460E0380	Install Dowel in Concrete	22	Each
480E0100	Reinforcing Steel	35,234	Lb
700E0210	Class B Riprap	24.0	Ton
831E0110	Type B Drainage Fabric	35	SqYd
831E0300	Reinforcement Fabric (MSE)	437	SqYd

Structure Number 44-054-126 Alternate B

BID ITEM NUMBER	ITEM	QUANTITY	UNIT
420E0200	Structure Excavation, Box Culvert	64	CuYd
421E0200	Box Culvert Undercut	291	CuYd
560E0116	9'x8' Precast Concrete Box Culvert, Furnish	216.0	Ft
560E0117	9'x8' Precast Concrete Box Culvert, Install	216.0	Ft
560E1116	9'x8' Precast Concrete Box Culvert End Section, Furnish	2	Each
560E1117	9'x8' Precast Concrete Box Culvert End Section, Install	2	Each
700E0210	Class B Riprap	25.7	Ton
831E0110	Type B Drainage Fabric	37	SqYd
831E0300	Reinforcement Fabric (MSE)	406	SqYd

Section F - Surfacing

BID ITEM NUMBER	ITEM	QUANTITY	UNIT
009E3320	Checker	Lump Sum	LS
110E7020	Remove Interim Crossover Closure for Reset	224	Ft
120E6200	Water for Granular Material	348.4	MGal
120E9000	Pit Run	4,685.7	Ton
260E1010	Base Course	4,253.6	Ton
260E2010	Gravel Cushion	20,027.5	Ton
320E1200	Asphalt Concrete Composite	2,093.8	Ton
380E0050	8" Nonreinforced PCC Pavement	4,476.1	SqYd
380E0100	10.5" Nonreinforced PCC Pavement	4,559.8	SqYd
380E0550	10.5" Continuously Reinforced PCC Pavement	28,484.0	SqYd
380E0800	PCC Shoulder Pavement	12,430.9	SqYd
380E6000	Dowel Bar	4,683	Each
380E6110	Insert Steel Bar in PCC Pavement	192	Each
450E4749	15" CMP 16 Gauge, Furnish	204	Ft
450E4750	15" CMP, Install	204	Ft
450E5005	15" CMP Elbow, Furnish	2	Each
450E5006	15" CMP Elbow, Install	2	Each
450E5402	15" CMP Safety End, Furnish	1	Each
450E5403	15" CMP Safety End, Install	1	Each
450E6119	15" Slotted CMP 16 Gauge, Furnish	260	Ft
450E6120	15" Slotted CMP, Install	260	Ft
451E3115	15" Pipe Cap	1	Each
462E0100	Class M6 Concrete	25.7	CuYd
464E0100	Controlled Density Fill	9.6	CuYd
629E9010	Interim Crossover Closure	368	Ft
629E9060	Reset Interim Crossover Closure	224	Ft
831E0210	Non-woven Separator Fabric	5,010	SqYd

Section M – Pavement Markings

BID ITEM NUMBER	ITEM	QUANTITY	UNIT
633E3000	Durable Pavement Marking, 4" White	14,571	Ft
633E3005	Durable Pavement Marking, 4" Yellow	11,256	Ft
633E3020	Durable Pavement Marking, 12" White	600	Ft
633E5100	Grooving for Durable Pavement Marking, 4"	25,827	Ft
633E5110	Grooving for Durable Pavement Marking, 12"	600	Ft

Section S - Permanent Signing

BID ITEM NUMBER	ITEM	QUANTITY	UNIT
110E0100	Remove Concrete Footing(s)	Lump Sum	LS
110E0130	Remove Traffic Sign	1	Each
110E0135	Remove Delineator	83	Each
110E7150	Remove Sign for Reset	2	Each
632E1340	2.5"x2.5" Perforated Tube Post	61.0	Ft
632E2000	4"x4" Amber Delineator with 1.12 Lb/Ft Post	20	Each
632E2004	4"x8" Amber Delineator with 1.12 Lb/Ft Post	5	Each
632E2020	4"x4" White Delineator with 1.12 Lb/Ft Post	20	Each
632E2024	4"x8" White Delineator with 1.12 Lb/Ft Post	28	Each
632E2220	Guardrail Delineator	24	Each
632E2510	Type 2 Object Marker Back to Back	14	Each
632E2520	Type 2 Object Marker	8	Each
632E3203	Flat Aluminum Sign, Nonremovable Copy High Intensity	23.5	SqFt
632E3500	Reset Sign	2	Each

ESTIMATE OF QUANTITIES

BID ITEM NUMBER	ITEM	QUANTITY	UNIT
009E3320	Checker	Lump Sum	LS
110E7020	Remove Interim Crossover Closure for Reset	224	Ft
120E6200	Water for Granular Material	348.4	MGal
120E9000	Pit Run	4,685.7	Ton
260E1010	Base Course	4,253.6	Ton
260E2010	Gravel Cushion	20,027.5	Ton
320E1200	Asphalt Concrete Composite	2,093.8	Ton
380E0050	8" Nonreinforced PCC Pavement	4,476.1	SqYd
380E0100	10.5" Nonreinforced PCC Pavement	4,559.8	SqYd
380E0550	10.5" Continuously Reinforced PCC Pavement	28,484.0	SqYd
380E0800	PCC Shoulder Pavement	12,430.9	SqYd
380E6000	Dowel Bar	4,683	Each
380E6110	Insert Steel Bar in PCC Pavement	192	Each
450E4749	15" CMP 16 Gauge, Furnish	204	Ft
450E4750	15" CMP, Install	204	Ft
450E5005	15" CMP Elbow, Furnish	2	Each
450E5006	15" CMP Elbow, Install	2	Each
450E5402	15" CMP Safety End, Furnish	1	Each
450E5403	15" CMP Safety End, Install	1	Each
450E6119	15" Slotted CMP 16 Gauge, Furnish	260	Ft
450E6120	15" Slotted CMP, Install	260	Ft
451E3115	15" Pipe Cap	1	Each
462E0100	Class M6 Concrete	25.7	CuYd
464E0100	Controlled Density Fill	9.6	CuYd
629E9010	Interim Crossover Closure	368	Ft
629E9060	Reset Interim Crossover Closure	224	Ft
831E0210	Non-woven Separator Fabric	5,010	SqYd

EXISTING PCC PAVEMENT

EASTBOUND LANES: The existing mainline PCC Pavement is 10" Continuously Reinforced PCC Pavement (26' wide). Reinforced with No. 4 Transverse Deformed Steel Bars spaced at 42" c-to-c and No. 6 Longitudinal Deformed Steel Bars spaced at 6 1/4" c-to-c.

The existing acceleration/deceleration lanes is 10" Nonreinforced PCC Pavement (transverse joint spacing = 20'). Transverse joints have 1 1/4" Plain Round dowel Bars spaced at 18" c-to-c and longitudinal joints have No. 5 Epoxy Coated Deformed Tie Bars spaced at 30" c-to-c.

The aggregate in the existing PCC Pavement is quartzite.

WESTBOUND LANES: The existing mainline PCC Pavement is 10" Continuously Reinforced PCC Pavement (26' wide). Reinforced with No. 4 Transverse Deformed Steel Bars spaced at 48" c-to-c and No. 6 Longitudinal Deformed Steel Bars spaced at 6 1/2" c-to-c.

The existing acceleration/deceleration lanes is 10" Nonreinforced PCC Pavement (transverse joint spacing = 20'). Transverse joints have 1 1/4" Plain Round dowel Bars spaced at 12" c-to-c and longitudinal joints have No. 5 Epoxy Coated Deformed Tie Bars spaced at 30" c-to-c.

The aggregate in the existing PCC Pavement is quartzite.

SURFACING THICKNESS DIMENSIONS

The plans shown spread rates will be applied even though the thickness may vary from that shown in the plans.

At those locations where material must be placed to achieve a required elevation, the depth/quantity may be varied to achieve the required elevation.

NON-WOVEN SEPARATOR FABRIC

Non-woven Separator Fabric has been included in the Estimate of Quantities for the median crossover. This fabric is to be used as a separator between the Pit Run material and the Base Course to prevent migration of fines from the Base Course into the Pit Run material. If the Pit Run material contains enough fines as placed to prevent the loss of material from the Base Course, the separator fabric may be eliminated by CCO. Non-woven Separator Fabric will conform to Section 831 of the Specifications.

TABLE OF NON-WOVEN SEPARATOR FABRIC

Location	Non-woven Separator Fabric (Sq.Yds.)
Median Crossover	
Sta. 424+55	5009.9

CONTROLLED DENSITY FILL FOR MEDIAN CROSSOVERS

Controlled Density Fill for median crossovers will be placed at the locations shown in the design layouts and the Table of Controlled Density Fill for Median Crossovers in accordance with Section 464.

Plans quantity will be the basis of measurement and payment unless changes are ordered by the Engineer.

TABLE OF CONTROLLED DENSITY FILL FOR MEDIAN CROSSOVERS

Location	Controlled Density Fill (Cu.Yds.)
Median Crossover	
Sta. 424+55	9.6

CLASS M6 CONCRETE

Class M6 Concrete will be placed at the locations shown in the design layouts and the Table of Class M6 Concrete in accordance with Section 462 for Class M Concrete.

Plans quantity will be the basis of measurement and payment unless changes are ordered by the Engineer.

TABLE OF CLASS M6 CONCRETE

Location	Class M6 Concrete (Cu.Yds.)
Median Crossover	
Sta. 424+55	25.7

STATE OF SOUTH DAKOTA	PROJECT	SHEET	TOTAL SHEETS
	PT 0908(105)349	F2	F38

Revised: 5Nov24, RML

INTERIM CROSSOVER CLOSURE

See Median Crossover Layouts and Standard Plate for placement and construction of the interim crossover closure.

TABLE OF INTERIM CROSSOVER CLOSURE

Location	Interim Crossover Closure (Ft)
Median Crossover	
Sta. 434+55	368

See Standard Plate 629.42

REMOVE AND RESET INTERIM CROSSOVER CLOSURE

The median crossover closure will be removed for reset and then reset when traffic is no longer being carried on the crossover.

TABLE OF REMOVE & RESET INTERIM CROSSOVER CLOSURE

Location	Interim Crossover Closure (Ft)
Median Crossover	
MRM 362.04	224

See Standard Plate 629.42

ASPHALT CONCRETE COMPOSITE

Asphalt Concrete Composite will include MC-70 Asphalt for Prime placed at the rate of 0.30 gallons per square yard. The Asphalt for Prime will be applied to the Base Course for the full width of the bottom layer of Asphalt Concrete Composite plus one foot additional on the outside shoulder.

Asphalt for Tack SS-1h or CSS-1h will be applied prior to each lift of Asphalt Concrete Composite. Asphalt for tack will be applied at a rate of 0.06 gallons per square yard on primed base course or new asphalt concrete pavement. The Asphalt for tack will be applied for the full width of the bottom layer of Asphalt Concrete Composite plus one-half foot additional on the outside shoulder.

The asphalt binder used in the mixture will be PG 58-34 or PG 64-34.

All other requirements in the Standard Specifications for Asphalt Concrete Composite will apply.

Revised: 5Nov24, RML

TABLE OF PCC PAVEMENT

LOCATION			1½" Dowel Bars	1¼" Dowel Bars	10.5" Continuously Reinforced PCC Pavement	10.5" Nonreinforced PCC Pavement	PCC Shoulder Pavement			8" Nonreinforced PCC Pavement
Station	to	Station	each	each	sq. yds.	sq. yds.	4' Median Shoulder	8' Outside Shoulder	6' Outside Shoulder	sq. yds.
							sq. yds.	Sq. yds.	sq. yds.	sq. yds.
I-90 EBL										
479+55.0	to	488+97.7			2,723.4		419.0	838.0		
488+97.9	to	507+30.0	# 1,505		5,292.7	# 2,374.2	814.3		1,221.4	
548+45.0	to	570+00.0			6,225.6		957.8	1,915.6		
I-90 WBL										
479+55.0	to	488+44.4			2,569.4		395.3	790.6		
488+44.4	to	502+33.5	# 1,348		4,013.0	# 2,185.6	617.4		926.1	
502+33.5	to	507+30.0			1,434.3		220.7	441.3		
548+45.0	to	570+00.0			6,225.6		957.8	1,915.6		
Exit 357 Ramp A										
704+60.0	to	714+66.2		1,140						2,795.0
Exit 357 Ramp B										
809+01.5	to	815+06.7		690						1,681.1
SUBTOTAL			2,853	1,830			4,382.3	5,901.1	2,147.5	
TOTAL			4,683		28,484.0	4,559.8		12,430.9		4,476.1

Quantities for acceleration/deceleration lanes

TABLE OF MATERIAL QUANTITIES

LOCATION	WATER FOR GRANULAR MATERIAL	GRAVEL CUSHION	BASE COURSE	PIT RUN MATERIAL	ASPHALT CONCRETE COMPOSITE
	MGal	Ton	Ton	Ton	Ton
Rate A1	122.2	10,166.0			
Rate A2	14.6	1,234.2			
Rate A3	5.3	464.7			
Rate B1	15.8	1,330.1			
Rate B2	10.8	906.1			
Rate C1	5.1	417.8			
Rate C2	2.4	202.0			
Rate D1	21.4	1,785.9			
Rate D2	4.5	376.1			
Construction Haul Road Note	22.4	1867.0			
Table of Additional Quantities	123.9	1,371.3	4,253.6	4,685.7	2,093.8
Total	348.4	20,027.5	4,253.6	4,685.7	2,093.8

Revised: 5Nov24, RML

TABLE OF ADDITIONAL QUANTITIES

LOCATION Station to Station	WATER FOR GRANULAR MATERIAL MGal	GRAVEL CUSHION Ton	BASE COURSE Ton (Depth)	PIT RUN MATERIAL Ton	ASPHALT CONCRETE COMPOSITE		
					1st Lift	2nd Lift	Top Lift
					Ton (Depth)	Ton	Ton
I-90 Gore Area							
488 + 97.9 to 491 + 49.5 EBL	6.3	527.4					
488 + 44.4 to 491 + 49.8 WBL	7.7	639.7					
I-90 Gore Area Outside Shoulder Wedge							
488 + 97.9 to 491 + 49.5 EBL	0.5	42.3					
488 + 44.4 to 491 + 49.8 WBL	0.6	51.4					
257th Street							
1 + 40 to 2 + 14	1.3	110.5					
Median Crossover @ Sta. 434+55	97.5		3,424.0	4,685.7	814.2	775.7	4951
Guardrail Surfacing (See Section B for layout details)							
Str. # 31-150-125							
WBL Outside Shoulder	0.3		25.4 (11.3")		4.8 (2")		
EBL Outside Shoulder	0.3		21.5 (11.3")		4.0 (2")		
Str. # 44-050-127							
WBL Outside Shoulder	0.5		43.1 (18')				
WBL Median Shoulder	1.8		149.5 (12.6" ave.)				
EBL Outside Shoulder	0.5		44.5 (18")				
EBL Median Shoulder	1.8		146.0 (12.6" ave.)				
Str. # 44-080-125							
WBL Outside Shoulder	0.7		55.2 (15")				
WBL Median Shoulder	1.7		142.9 (11.1" ave.)				
EBL Outside Shoulder	0.6		52.1 (15")				
EBL Median Shoulder	1.8		149.4 (11.1" ave.)				
Totals =	123.9	1,371.3	4,253.6	4,685.7	2,093.8		

Application Rates: MC-70 Asphalt for Prime rate = 0.30 gallon per square yard
SS-1h or CSS-1h Asphalt for Tack rate = 0.06 gallon per square yard
SS-1h or CSS-1h Asphalt for Flush Seal rate = 0.05 gallon per square yard
Sand for Flush Seal rate = 8.00 lbs. per square yard