DEPARTMENT OF TRANSPORTATION

Planning & Engineering
Office of Project Development
700 E Broadway Avenue
Pierre, South Dakota 57501-2586
O: 605.773.3275 | F: 605.773.2614
dot.sd.gov

June 12, 2026

ADDENDUM NO. 1

RE: Item #1, July 29, 2026 Letting - EM-P 0044(207)290, PCN 05X0, Charles Mix, Gregory County - Structure (5770'-6" Steel Girder) & Approach Grading

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 480E0100 "Reinforcing Steel" changed from 3,611,562 Lb to 5,448,340 Lb

PLANS: Please destroy sheets A2, E2, E8, & E27 and replace with the enclosed sheets, dated 6/10/26.

Sheets A2, E2 & E8: **Quantities for Bid Items were changed:**
Bid Item 480E0100 "Reinforcing Steel" changed from 3,611,562 to 5,448,340 Lb

Sheet E27: ESTIMATED QUANTITIES and ESTIMATED QUANTITIES CONT. tables were revised. REINFORCING SCHEDULE was revised.

Sincerely,

Sam Weisgram
Engineering Supervisor

SW/gp

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

Section E – Structure
Structure No. 12-089-076

BID ITEM NUMBER	ITEM	QUANTITY	UNIT
009E3310	Bridge Elevation Survey	Lump Sum	LS
009E5000	Concrete Penetrating Sealer	23,555.3	SqYd
250E0030	Incidental Work, Structure	Lump Sum	LS
410E0020	Structural Steel	Lump Sum	LS
410E0030	Structural Steel, Miscellaneous	Lump Sum	LS
410E1150	Disc Bearing Assembly	96	Each
410E2150	Modular Expansion Joint Assembly	195.0	Ft
411E0100	Bridge Painting	Lump Sum	LS
420E0100	Structure Excavation, Bridge	427	CuYd
430E0200	Bridge End Embankment	1,666	CuYd
430E0300	Granular Bridge End Backfill	173.1	CuYd
430E0510	Approach Slab Underdrain Excavation	2.7	CuYd
430E0700	Precast Concrete Headwall for Drain	4	Each
460E0030	Class A45 Concrete, Bridge Deck	7,268.8	CuYd
460E0050	Class A45 Concrete, Bridge	10,426.2	CuYd
460E0150	Concrete Approach Slab for Bridge	163.4	SqYd
460E0160	Concrete Approach Sleeper Slab for Bridge	39.9	SqYd
460E0500	Deck Drain, Girder Bridge	104	Each
465E0100	Class A45 Concrete, Drilled Shaft	25,274.3	CuYd
465E0200	Drilled Shaft Excavation	16,887.2	CuYd
465E0400	Crosshole Sonic Log (CSL) Test	38	Each
465E0406	Thermal Integrity Profiling (TIP) Test	38	Each
465E1144	144" Permanent Casing	5,299.0	Ft
480E0100	Reinforcing Steel	5,448,340	Lb
480E0200	Epoxy Coated Reinforcing Steel	3,600	Lb
480E0300	Stainless Reinforcing Steel	1,979,024	Lb
480E0511	No. 11 Rebar Splice	1,824	Each
480E0514	No. 14 Rebar Splice	6,768	Each
510E3521	HP 14x73 Steel Test Pile, Furnish and Drive	110	Ft
510E3525	HP 14x73 Steel Bearing Pile, Furnish and Drive	1,700	Ft
635E8020	2" Rigid Galvanized Steel Conduit	5,740	Ft
680E0040	4" Underdrain Pipe	363	Ft
680E2500	Porous Backfill	30.3	Ton
734E2022	Bridge Berm Slope Protection, Quarried Aggregate	2,764.4	SqYd
831E0100	Type A Drainage Fabric	2,832	SqYd

Section F - Surfacing

BID ITEM NUMBER	ITEM	QUANTITY	UNIT
120E6200	Water for Granular Material	343.9	MGal
260E1080	Base Course, Salvaged, State Furnished	28,658.8	Ton
320E1200	Asphalt Concrete Composite	1,797.2	Ton
330E0010	MC-70 Asphalt for Prime	34.4	Ton
330E0300	SS-1h or CSS-1h Asphalt for Fog Seal	4.7	Ton
330E1000	Blotting Sand for Prime	86.7	Ton
330E3000	Sand for Fog Seal	10.0	Ton
360E0020	AE150S Asphalt for Surface Treatment	29.5	Ton
360E1050	Type 3 Cover Aggregate	395.8	Ton

Section M - Pavement Marking

BID ITEM NUMBER	ITEM	QUANTITY	UNIT
633E1200	High Build Waterborne Pavement Marking Paint, White	208	Gal
633E1205	High Build Waterborne Pavement Marking Paint, Yellow	94	Gal

Section S - Permanent Signing

BID ITEM NUMBER	ITEM	QUANTITY	UNIT
110E0130	Remove Traffic Sign	25	Each
110E0135	Remove Delineator	47	Each
632E1320	2.0"x2.0" Perforated Tube Post	223.3	Ft
632E1330	2.25"x2.25" Perforated Tube Post	64.2	Ft
632E1340	2.5"x2.5" Perforated Tube Post	59.0	Ft
632E2022	4"x4" White Delineator Back to Back with 1.12 Lb/Ft Post	23	Each
632E2028	4" Tubular White Delineator with 1.12 Lb/Ft Post	24	Each
632E3203	Flat Aluminum Sign, Nonremovable Copy High Intensity	153.0	SqFt
632E3205	Flat Aluminum Sign, Nonremovable Copy Super/Very High Intensity	108.6	SqFt

REGISTERED PROFESSIONAL ENGINEER & LAND SURVEYOR
REG. NO. 8475
BENJAMIN D. WHITE
SOUTH DAKOTA
6/10/2026

HRGreen.

STATE OF	PROJECT	SHEET NO.	TOTAL SHEETS
S.D.	P 0044(207)290	E2	E86

Rev 06/10/2026 KJB

SECTION E - ESTIMATE OF STRUCTURE QUANTITIES

BID ITEM NUMBER	ITEM	QUANTITY	UNIT
009E3310	Bridge Elevation Survey	Lump Sum	LS
009E5000	Concrete Penetrating Sealer	23,555.3	SqYd
250E0030	Incidental Work, Structure	Lump Sum	LS
410E0020	Structural Steel	Lump Sum	LS
410E0030	Structural Steel, Miscellaneous	Lump Sum	LS
410E1150	Disc Bearing Assembly	96	Each
410E2150	Modular Expansion Joint Assembly	195.0	Ft
411E0100	Bridge Painting	Lump Sum	LS
420E0100	Structure Excavation, Bridge	427	CuYd
430E0200	Bridge End Embankment	1,666	CuYd
430E0300	Granular Bridge End Backfill	173.1	CuYd
430E0510	Approach Slab Underdrain Excavation	2.7	CuYd
430E0700	Precast Concrete Headwall for Drain	4	Each
460E0030	Class A45 Concrete, Bridge Deck	7,268.8	CuYd
460E0050	Class A45 Concrete, Bridge	10,426.2	CuYd
460E0150	Concrete Approach Slab for Bridge	163.4	SqYd
460E0160	Concrete Approach Sleeper Slab for Bridge	39.9	SqYd
460E0500	Deck Drain, Girder Bridge	104	Each
465E0100	Class A45 Concrete, Drilled Shaft	25,274.3	CuYd
465E0200	Drilled Shaft Excavation	16,887.2	CuYd
465E0400	Crosshole Sonic Log (CSL) Test	38	Each
465E0406	Thermal Integrity Profiling (TIP) Test	38	Each
465E1144	144" Permanent Casing	5,299.0	Ft
480E0100	Reinforcing Steel	5,448,340	Lb
480E0200	Epoxy Coated Reinforcing Steel	3,600	Lb
480E0300	Stainless Reinforcing Steel	1,979,024	Lb
480E0511	No. 11 Rebar Splice	1,824	Each
480E0514	No. 14 Rebar Splice	6,768	Each
510E3521	HP 14x73 Steel Test Pile, Furnish and Drive	110	Ft
510E3525	HP 14x73 Steel Bearing Pile, Furnish and Drive	1,700	Ft
635E8020	2" Rigid Galvanized Steel Conduit	5,740	Ft
680E0040	4" Underdrain Pipe	363	Ft
680E2500	Porous Backfill	30.3	Ton
734E2022	Bridge Berm Slope Protection, Quarried Aggregate	2,764.4	SqYd
831E0100	Type A Drainage Fabric	2,832	SqYd

REGISTERED PROFESSIONAL ENGINEER
REG. NO.
11555
KEVIN J.
BREHM
SOUTH DAKOTA
06/10/2026

STATE OF	PROJECT	SHEET NO.	TOTAL SHEETS
S.D.	P 0044(207)290	E8	E86

Rev 06/10/2026 KJB

ESTIMATE OF STRUCTURE QUANTITIES

DESCRIPTION	QUANTITY	UNIT	REMARKS
Bridge Elevation Survey	Lump Sum	LS	
Concrete Penetrating Sealer	23,555.3	SqYd	See Special Provision
Incidental Work, Structure	Lump Sum	LS	
Structural Steel	Lump Sum	LS	
Structural Steel, Miscellaneous	Lump Sum	LS	
Disc Bearing Assembly	96	Each	See Special Provision
Modular Expansion Joint Assembly	195.0	Ft	See Special Provision
Bridge Painting	Lump Sum	LS	
Structure Excavation, Bridge	427	CuYd	
Bridge End Embankment	1,666	CuYd	
Granular Bridge End Backfill	173.1	CuYd	
Approach Slab Underdrain Excavation	2.7	CuYd	
Precast Concrete Headwall for Drain	4	Each	
Class A45 Concrete, Bridge Deck	7,268.8	CuYd	
Class A45 Concrete, Bridge	10,426.2	CuYd	
Concrete Approach Slab for Bridge	163.4	SqYd	
Concrete Approach Sleeper Slab for Bridge	39.9	SqYd	
Deck Drain, Girder Bridge	104	Each	
Class A45 Concrete, Drilled Shaft	25,274.3	CuYd	See Special Provision
Drilled Shaft Excavation	16,887.2	CuYd	See Special Provision
Crosshole Sonic Log (CSL) Test	38	Each	See Special Provision
Thermal Integrity Profiling (TIP) Test	38	Each	See Special Provision
144" Permanent Casing	5,299.0	Ft	See Special Provision
Reinforcing Steel	5,448,340	Lb	
Epoxy Coated Reinforcing Steel	3,600	Lb	
Stainless Reinforcing Steel	1,979,024	Lb	See Special Provision
No. 11 Rebar Splice	1,824	Each	
No. 14 Rebar Splice	6,768	Each	
HP 14x73 Steel Test Pile, Furnish and Drive	110	Ft	
HP 14x73 Steel Bearing Pile, Furnish and Drive	1,700	Ft	
2" Rigid Galvanized Steel Conduit	5,740	Ft	
4" Underdrain Pipe	363	Ft	
Porous Backfill	30.3	Ton	
Bridge Berm Slope Protection, Quarried Aggregate	2,764.4	SqYd	
Type A Drainage Fabric	2,832	SqYd	

BRIDGE SPECIFICATIONS

1. Design Specifications: AASHTO LRFD Bridge Design Specifications, 9th Edition.
2. Construction Specifications: South Dakota Standard Specifications for Roads and Bridges, 10-1-25 Version, Required Provisions, and Special Provisions as included in the proposal. The Standard Specifications for Roads and Bridges are available for download and viewing at: https://dot.sd.gov/doing-business/contractors/standard-specifications
3. All welding and welding inspections will be in conformance with the latest edition of AASHTO/AWS D1.5/D1.5M Bridge Welding Code unless noted otherwise in the plans.

BRIDGE DESIGN LOADING

1. AASHTO HL-93.
2. Dead Load includes 22 psf for future wearing surface on the roadway.

DESIGN MATERIAL STRENGTHS

Class A45 Concrete	f'c = 4,500 psi
Reinforcing Steel (ASTM A615, Gr. 60)	fy = 60,000 psi
Stainless Steel (ASTM A955, Gr. 60)	fy = 60,000 psi
Piling (ASTM A572 Grade 50)	fy = 50,000 psi
Structural Steel (ASTM A709 Gr. 50WT2)	fy = 50,000 psi
Structural Steel (ASTM A709 Gr. HPS 70WT2)	fy = 70,000 psi
Structural Steel for Tie Rods (ASTM A709, Gr. 36)	fy = 36,000 psi

GENERAL CONSTRUCTION

1. All lap splices shown are contact lap splices unless noted otherwise.
2. All exposed concrete corners and edges will be chamfered 3/4-inch unless noted otherwise.
3. Use 2-inch clear cover on all reinforcing steel except as shown otherwise on plans.
4. The Contractor will imprint on the structure the date of new construction as specified and detailed on Standard Plate 460.02.
5. Barrier curbs and end blocks will be built perpendicular to the roadway grade line.
6. Requests for construction joints or reinforcing steel splices at points other than those shown, must be submitted to the Engineer for prior approval. If additional splices are approved, no payment will be allowed for the added quantity of reinforcing steel.
7. Bridge berms will be constructed to the plans template prior to any pile driving or construction of abutment footings. See Standard Plate 120.11. Berm slopes will not be disturbed after construction. Any alterations to the berm or slopes after berm construction will be submitted to the Bridge Construction Engineer for approval. Allow 30 days for review of proposals.
8. Berm slope and embankments will be compacted to the Specified Density Method in accordance with Section 120.3.a of the Construction Specifications.
9. The elevation of the bridge deck is 18 inches above subgrade elevation.
10. The Contractor will submit a safety plan to help ensure the safety of workers and the public throughout construction of the new bridge and demolition of the existing bridge. At a minimum, the plan will include details of construction signage, temporary lighting of any potential hazards such as barges and partially completed bridge construction, and temporary navigational lighting, all in accordance with US Coast Guard requirements and regulations.

INCIDENTAL WORK, STRUCTURE

1. In place centerline Sta. 876+16.57, 102.7' RT to centerline Sta. 932+69.81, 262.6' RT is a 5655.5-foot, 7-unit, 28 span continuous steel girder bridge with a 28'-0" clear roadway. The superstructure consists of a reinforced concrete slab with New Jersey style concrete railings across the bridge. The deck has been overlaid with 0.125 inches of epoxy. The substructure consists of 2 column reinforced concrete bents with a pile cap supported on a 4'-0" diameter prestressed concrete piling and reinforced concrete vertical abutments supported on steel H-piling.
2. Break down and remove the existing bridge, and approach/sleeper slabs if applicable, to 1-foot below finished groundline, or as required to construct the new structure in accordance with Section 110 of the Construction Specifications. One exception is the existing concrete piles supporting the bents will be removed to 2-feet below the existing stream bed elevation. All portions of the existing bridge will be removed and disposed of by the Contractor on a site obtained by the Contractor and approved by the Engineer. This includes any sand/fill material contained within the existing concrete piles that spills into the river during the removal operation. An appropriate site will be as described in the Environmental Commitments Notes in Section A.
3. The Contractor will submit a detailed bridge removal plan at least 6 months prior to the start of bridge demolition. The plan will include a description of the removal procedures and equipment to be used, complete sequencing details, pick point locations, temporary shoring details, temporary bracing details, supporting analysis, and restoration details for existing riprap slope protection and stream bed. The bridge removal plan will be stamped by a Professional Engineer registered in the State of South Dakota. The Engineer will submit documentation to the US Corps of Engineers and US Coast Guard for approval. Demolition of the existing bridge may not begin until bridge removal plan approvals are obtained by the Engineer.
4. During demolition of the structure, efforts will be taken to prevent material from falling into the river. Under no circumstances is asphalt allowed to fall into the river.

REGISTERED PROFESSIONAL ENGINEER
11555
KEVIN J.
BREHM
SOUTH DAKOTA
06/10/2026

ESTIMATE OF STRUCTURE QUANTITIES AND NOTES
FOR
5770' - 6" CONT. COMP. GIRDER BRIDGE

STR. NO. 12-089-076
DECEMBER 2023

DESIGNED BY	CK. DES. BY	DRAFTED BY	
KJB	JL	EM	BRIDGE ENGINEER

STATE OF	PROJECT	SHEET NO.	TOTAL SHEETS
S.D.	P 0044(207)290	E27	E86

Revised 06/10/2026 AMB

ESTIMATED QUANTITIES

ITEM	UNIT	QUANTITY						
		Bent No. 2	Bent No. 3	Bent No. 4	Bent No. 5	Bent No. 6	Bent No. 7	Bent No. 8
Class A45 Concrete, Drilled Shaft	Cu. Yd.	575.2	1043.8	1107.7	1276.0	1380.4	1468.1	1532.4
Reinforcing Steel	Lb.	99747	172370	182301	208371	224510	238165	248097
Drilled Shaft Excavation	Cu. Yd.	400.3	762.0	652.4	877.9	978.5	1044.1	1090.2
Crosshole Sonic Log (CSL) Test	Each	2	2	2	2	2	2	2
Thermal Integrity Profiling (TIP) Test	Each	2	2	2	2	2	2	2
144" Permanent Casing	Ft.	103	212	226	266	292	310	326
No. 14 Rebar Splice	Each	144	288	288	288	432	432	432

ESTIMATED QUANTITIES CONT.

ITEM	UNIT	QUANTITY					
		Bent No. 9	Bent No. 10	Bent No. 11	Bent No. 12	Bent No. 13	Bent No. 14
Class A45 Concrete, Drilled Shaft	Cu. Yd.	1644.5	1652.5	1620.7	1708.4	1676.3	1636.4
Reinforcing Steel	Lb.	265477	266718	261752	275408	270442	264235
Drilled Shaft Excavation	Cu. Yd.	1118.8	1110.5	1094.4	1104.8	1155.9	1102.1
Crosshole Sonic Log (CSL) Test	Each	2	2	2	2	2	2
Thermal Integrity Profiling (TIP) Test	Each	2	2	2	2	2	2
144" Permanent Casing	Ft.	352	354	348	366	358	350
No. 14 Rebar Splice	Each	432	432	432	432	432	432

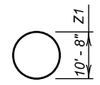
ESTIMATED QUANTITIES CONT.

ITEM	UNIT	QUANTITY					
		Bent No. 15	Bent No. 16	Bent No. 17	Bent No. 18	Bent No. 19	Bent No. 20
Class A45 Concrete, Drilled Shaft	Cu. Yd.	1524.3	1428.6	1348.0	1108.0	1116.0	427.0
Reinforcing Steel	Lb.	246855	231958	219544	182301	183543	76781
Drilled Shaft Excavation	Cu. Yd.	998.1	903.1	864.7	623.8	711.8	293.8
Crosshole Sonic Log (CSL) Test	Each	2	2	2	2	2	2
Thermal Integrity Profiling (TIP) Test	Each	2	2	2	2	2	2
144" Permanent Casing	Ft.	324	304	282	228	230	68
No. 14 Rebar Splice	Each	432	432	288	288	288	144

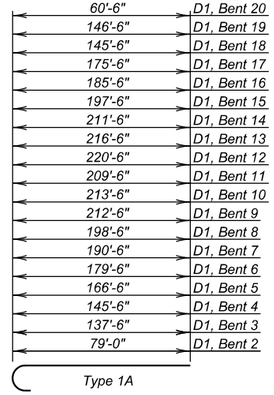
REINFORCING SCHEDULE

	Mk.	No.	Size	Length	Type
Bent 2	D1	144	14	81' - 3"	1A
	Z1	2	5	4909' - 10"	Spiral
Bent 3	D1	144	14	139' - 9"	1A
	Z1	2	5	8831' - 0"	Spiral
Bent 4	D1	144	14	147' - 9"	1A
	Z1	2	5	9367' - 3"	Spiral
Bent 5	D1	144	14	168' - 9"	1A
	Z1	2	5	10774' - 10"	Spiral
Bent 6	D1	144	14	181' - 9"	1A
	Z1	2	5	11646' - 2"	Spiral
Bent 7	D1	144	14	192' - 9"	1A
	Z1	2	5	12383' - 6"	Spiral
Bent 8	D1	144	14	200' - 9"	1A
	Z1	2	5	12919' - 9"	Spiral
Bent 9	D1	144	14	214' - 9"	1A
	Z1	2	5	13858' - 1"	Spiral
Bent 10	D1	144	14	215' - 9"	1A
	Z1	2	5	13925' - 2"	Spiral
Bent 11	D1	144	14	211' - 9"	1A
	Z1	2	5	13657' - 0"	Spiral
Bent 12	D1	144	14	222' - 9"	1A
	Z1	2	5	14394' - 4"	Spiral
Bent 13	D1	144	14	218' - 9"	1A
	Z1	2	5	14126' - 3"	Spiral
Bent 14	D1	144	14	213' - 9"	1A
	Z1	2	5	13791' - 1"	Spiral
Bent 15	D1	144	14	199' - 9"	1A
	Z1	2	5	12852' - 8"	Spiral
Bent 16	D1	144	14	187' - 9"	1A
	Z1	2	5	12048' - 4"	Spiral
Bent 17	D1	144	14	177' - 9"	1A
	Z1	2	5	11378' - 1"	Spiral
Bent 18	D1	144	14	147' - 9"	1A
	Z1	2	5	9367' - 3"	Spiral
Bent 19	D1	144	14	148' - 9"	1A
	Z1	2	5	9434' - 3"	Spiral
Bent 20	D1	144	14	62' - 9"	1A
	Z1	2	5	3669' - 10"	Spiral

Bending Details



Spiral



Type 1A

NOTES:

1. *All dimensions are out to out of bars.*
2. *Spirals - Use 6" pitch and 1½ extra turns at each end. Use 1½ turns for lap at splice as required, or weld as approved by the Engineer of Record. Use 6 vertical spacer bars per column.*
3. *Bar Length does not include Splices.*
4. *The length shown for the D1 bar is the full length required. The Contractor must submit a splice plan for approval. Mechanical splices must be staggered (a minimum of 5' - 0") and not placed side by side.*
5. *Shift D1 bar bundles as required to maintain 3" minimum clearance between bars and CSL tubes.*

DRILLED SHAFT DETAILS (B)

FOR

5770' - 6" CONT. COMP. GIRDER BRIDGE

36' - 0" ROADWAY — 0° SKEW

OVER MISSOURI RIVER (LAKE FRANCIS CASE) — SEC. 16/20/21-T99N-R70W

STA. 875 + 39.75 TO STA. 933 + 10.25 — P 0044(207)290

STR. NO. 12-089-076 — HL-93

GREGORY & CHARLES MIX COUNTIES

S. D. DEPT. OF TRANSPORTATION

DECEMBER 2023

25 OF 84

DESIGNED BY	CK. DES. BY	DRAFTED BY	
MJK	CJC	NTF	BRIDGE ENGINEER