

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

August 27, 2024

ADDENDUM NO. 1

RE: Item #3, September 4, 2024 Letting - IM 0902(18)101, PCN 035F, Pennington County - Replace Structure ((2) 394.5' Prestressed Girder Bridges), Approach Grading, Asphalt Surfacing

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.

Bid Items were added:

Bid Item 480E0511 "No. 11 Rebar Splice"

PLANS: Please destroy sheets A2, E2, E3, E4, E14, E33, E34, and E44 and replace with the enclosed

sheets, dated 8/14/24, 8/22/24, and 8/26/24.

Sheets A2, E2, E4 & E34: Bid Item 480E0511 "No. 11 Rebar Splice" was added.

Sheets E3 & E33: LAYOUT was revised to show the Temporary Retaining Structures.

Sheets E14 & E44: ESTIMATED QUANTITIES was revised. Bid Item "No. 11 Rebar Splice" was

added.

Sincerely,

Sam Weisgram
Engineering Supervisor

SW/cj

CC: Todd Seaman, Rapid City Region Engineer

Mike Carlson, Rapid City Area Engineer

ESTIMATE OF QUANTITIES AND ENVIRONMENTAL COMMITMENTS

STATE OF SOUTH DAKOTA IM 0902(18)101 A2

Plotting Date:

08/26/2024

Section D - Erosion and Sediment Control

BID ITEM NUMBER	ITEM	QUANTITY	UNIT
110E1690	Remove Sediment	4.1	CuYd
110E1695	Remove Sediment Filter Bag	128	Ft
110E1700	Remove Silt Fence	477	Ft
230E0010	Placing Topsoil	2,143	CuYd
730E0100	Cover Crop Seeding	3.0	Bu
730E0210	Type F Permanent Seed Mixture	104	Lb
731E0200	Fertilizing	3.00	Ton
732E0100	Mulching	12.0	Ton
734E0044	Soil Stabilizer	2.3	Acre
734E0103	Type 3 Erosion Control Blanket	11,922	SqYd
734E0154	12" Diameter Erosion Control Wattle	1,225	Ft
734E0165	Remove and Reset Erosion Control Wattle	307	Ft
734E0180	Sediment Filter Bag	128	Ft
734E0602	Low Flow Silt Fence	1,600	Ft
734E0604	High Flow Silt Fence	306	Ft
734E0610	Mucking Silt Fence	132	CuYd
734E0620	Repair Silt Fence	477	Ft
734E0845	Sediment Control at Inlet with Frame and Grate	5	Each
900E1310	Concrete Washout Facility	2	Each
900E1320	Construction Entrance	2	Each

Section E – Structure

Str. No. 52-831-309

BID ITEM NUMBER	ITEM	QUANTITY	UNIT
009E3310	Bridge Elevation Survey	Lump Sum	LS
009E5000	Concrete Penetrating Sealer	1,754.0	SqYd
120E7000	Select Granular Backfill	19.6	Ton
250E0030	Incidental Work, Structure	Lump Sum	LS
410E0030	Structural Steel, Miscellaneous	Lump Sum	LS
410E2600	Membrane Sealant Expansion Joint	83.8	Ft
420E0100	Structure Excavation, Bridge	29	CuYd
430E0200	Bridge End Embankment	536	CuYd
430E0300	Granular Bridge End Backfill	119.4	CuYd
430E0510	Approach Slab Underdrain Excavation	9.5	CuYd
430E0700	Precast Concrete Headwall for Drain	2	Each
460E0030	Class A45 Concrete, Bridge Deck	605.2	CuYd
460E0050	Class A45 Concrete, Bridge	254.6	CuYd
460E0150	Concrete Approach Slab for Bridge	190.6	SqYd
460E0160	Concrete Approach Sleeper Slab for Bridge	41.9	SqYd
460E0500	Deck Drain, Girder Bridge	3	Each
465E0100	Class A45 Concrete, Drilled Shaft	263.8	CuYd
465E0200	Drilled Shaft Excavation	259.4	CuYd
465E1056	56" Permanent Casing	151.1	Ft
480E0100	Reinforcing Steel	82,392	Lb
480E0200	Epoxy Coated Reinforcing Steel	2,883	Lb
480E0300	Stainless Reinforcing Steel	125,037	Lb
480E0511	No. 11 Rebar Splice	108	Each
510E0100	Extract Pile	5	Each
510E0300	Preboring Pile	180	Ft
510E3421	HP 12x74 Steel Test Pile, Furnish and Drive	140	Ft
510E3425	HP 12x74 Steel Bearing Pile, Furnish and Drive	1,040	Ft
560E8081	81" Minnesota Shape Prestressed Concrete Beam	2,345	Ft
680E0040	4" Underdrain Pipe	131	Ft
680E2500	Porous Backfill	18.0	Ton
700E0210	Class B Riprap	1,611.0	Ton
700E1100	Overburden Excavation for Riprap	950	CuYd
831E0110	Type B Drainage Fabric	1,922	SqYd
831E1030	Perforated Geocell	560	SqFt

Str. No. 52-831-310

BID ITEM NUMBER	ITEM	QUANTITY	UNIT
009E3310	Bridge Elevation Survey	Lump Sum	LS
009E5000	Concrete Penetrating Sealer	1,754.0	SqYd
120E7000	Select Granular Backfill	19.6	Ton
250E0030	Incidental Work, Structure	Lump Sum	LS
410E0030	Structural Steel, Miscellaneous	Lump Sum	LS
410E2600	Membrane Sealant Expansion Joint	83.8	Ft
420E0100	Structure Excavation, Bridge	29	CuYd
430E0200	Bridge End Embankment	537	CuYd
430E0300	Granular Bridge End Backfill	119.4	CuYd
430E0510	Approach Slab Underdrain Excavation	9.5	CuYd
430E0700	Precast Concrete Headwall for Drain	2	Each
460E0030	Class A45 Concrete, Bridge Deck	605.2	CuYd
460E0050	Class A45 Concrete, Bridge	255.1	CuYd
460E0150	Concrete Approach Slab for Bridge	190.6	SqYd
460E0160	Concrete Approach Sleeper Slab for Bridge	41.9	SqYd
460E0500	Deck Drain, Girder Bridge	3	Each
465E0100	Class A45 Concrete, Drilled Shaft	263.5	CuYd
465E0200	Drilled Shaft Excavation	259.1	CuYd
465E1056	56" Permanent Casing	151.1	Ft
480E0100	Reinforcing Steel	82,430	Lb
480E0200	Epoxy Coated Reinforcing Steel	2,883	Lb
480E0300	Stainless Reinforcing Steel	125,037	Lb
480E0511	No. 11 Rebar Splice	108	Each
510E0100	Extract Pile	5	Each
510E0300	Preboring Pile	180	Ft
510E3421	HP 12x74 Steel Test Pile, Furnish and Drive	140	Ft
510E3425	HP 12x74 Steel Bearing Pile, Furnish and Drive	1,040	Ft
560E8081	81" Minnesota Shape Prestressed Concrete Beam	2,345	Ft
680E0040	4" Underdrain Pipe	131	Ft
680E2500	Porous Backfill	18.0	Ton
700E0210	Class B Riprap	1,699.0	Ton
700E1100	Overburden Excavation for Riprap	1,028	CuYd
831E0110	Type B Drainage Fabric	2,020	SqYd
831E1030	Perforated Geocell	560	SqFt

SECTION E – ESTIMATE OF STRUCTURE QUANTITES

Str. No. 52-831-309

BID ITEM NUMBER	ITEM	QUANTITY	UNIT
009E3310	Bridge Elevation Survey	Lump Sum	LS
009E5000	Concrete Penetrating Sealer	1,754.0	SqYd
120E7000	Select Granular Backfill	19.6	Ton
250E0030	Incidental Work, Structure	Lump Sum	LS
410E0030	Structural Steel, Miscellaneous	Lump Sum	LS
410E2600	Membrane Sealant Expansion Joint	83.8	Ft
420E0100	Structure Excavation, Bridge	29	CuYd
430E0200	Bridge End Embankment	536	CuYd
430E0300	Granular Bridge End Backfill	119.4	CuYd
430E0510	Approach Slab Underdrain Excavation	9.5	CuYd
430E0700	Precast Concrete Headwall for Drain	2	Each
460E0030	Class A45 Concrete, Bridge Deck	605.2	CuYd
460E0050	Class A45 Concrete, Bridge	254.6	CuYd
460E0150	Concrete Approach Slab for Bridge	190.6	SqYd
460E0160	Concrete Approach Sleeper Slab for Bridge	41.9	SqYd
460E0500	Deck Drain, Girder Bridge	3	Each
465E0100	Class A45 Concrete, Drilled Shaft	263.8	CuYd
465E0200	Drilled Shaft Excavation	259.4	CuYd
465E1056	56" Permanent Casing	151.1	Ft
480E0100	Reinforcing Steel	82,392	Lb
480E0200	Epoxy Coated Reinforcing Steel	2,883	Lb
480E0300	Stainless Reinforcing Steel	125,037	Lb
480E0511	No. 11 Rebar Splice	108	Each
510E0100	Extract Pile	5	Each
510E0300	Preboring Pile	180	Ft
510E3421	HP 12x74 Steel Test Pile, Furnish and Drive	140	Ft
510E3425	HP 12x74 Steel Bearing Pile, Furnish and Drive	1,040	Ft
560E8081	81" Minnesota Shape Prestressed Concrete Beam	2,345	Ft
680E0040	4" Underdrain Pipe	131	Ft
680E2500	Porous Backfill	18.0	Ton
700E0210	Class B Riprap	1,611.0	Ton
700E1100	Overburden Excavation for Riprap	950	CuYd
831E0110	Type B Drainage Fabric	1,922	SqYd
831E1030	Perforated Geocell	560	SqFt

Str. No. 52-831-310

BID ITEM NUMBER	ITEM	QUANTITY	UNIT
009E3310	Bridge Elevation Survey	Lump Sum	LS
009E5000	Concrete Penetrating Sealer	1,754.0	SqYd
120E7000	Select Granular Backfill	19.6	Ton
250E0030	Incidental Work, Structure	Lump Sum	LS
410E0030	Structural Steel, Miscellaneous	Lump Sum	LS
410E2600	Membrane Sealant Expansion Joint	83.8	Ft
420E0100	Structure Excavation, Bridge	29	CuYd
430E0200	Bridge End Embankment	537	CuYd
430E0300	Granular Bridge End Backfill	119.4	CuYd
430E0510	Approach Slab Underdrain Excavation	9.5	CuYd
430E0700	Precast Concrete Headwall for Drain	2	Each
460E0030	Class A45 Concrete, Bridge Deck	605.2	CuYd
460E0050	Class A45 Concrete, Bridge	255.1	CuYd
460E0150	Concrete Approach Slab for Bridge	190.6	SqYd
460E0160	Concrete Approach Sleeper Slab for Bridge	41.9	SqYd
460E0500	Deck Drain, Girder Bridge	3	Each
465E0100	Class A45 Concrete, Drilled Shaft	263.5	CuYd
465E0200	Drilled Shaft Excavation	259.1	CuYd
465E1056	56" Permanent Casing	151.1	Ft
480E0100	Reinforcing Steel	82,430	Lb
480E0200	Epoxy Coated Reinforcing Steel	2,883	Lb
480E0300	Stainless Reinforcing Steel	125,037	Lb
480E0511	No. 11 Rebar Splice	108	Each
510E0100	Extract Pile	5	Each
510E0300	Preboring Pile	180	Ft
510E3421	HP 12x74 Steel Test Pile, Furnish and Drive	140	Ft
510E3425	HP 12x74 Steel Bearing Pile, Furnish and Drive	1,040	Ft
560E8081	81" Minnesota Shape Prestressed Concrete Beam	2,345	Ft
680E0040	4" Underdrain Pipe	131	Ft
680E2500	Porous Backfill	18.0	Ton
700E0210	Class B Riprap	1,699.0	Ton
700E1100	Overburden Excavation for Riprap	1,028	CuYd
831E0110	Type B Drainage Fabric	2,020	SqYd
831E1030	Perforated Geocell	560	SqFt

	STATE	PROJECT	SHEET	TOTAL
	OF		NO.	SHEETS
evised July 2, 2024 SK/CL evised August 22, 2024 SK/CL	S.D.	IM 0902(18)101	E2	E62

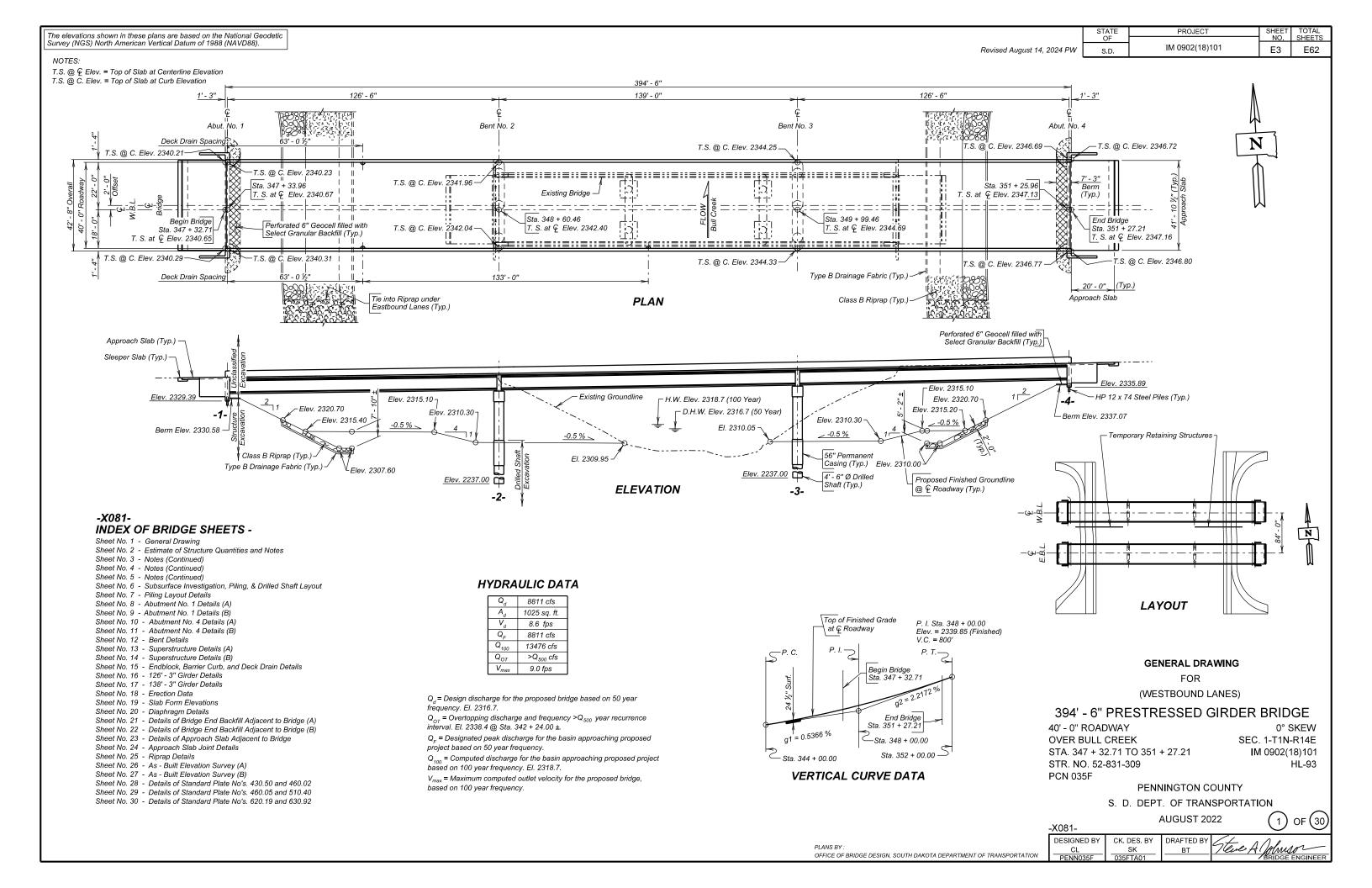
Temporary Retaining Structures

Temporary retaining structures will be necessary to maintain traffic on the existing alignment adjacent to the new abutments and berms during excavation, drilled shaft construction, and placement of riprap. The following soil parameters for the existing embankment and underlying soils will be used in the design of temporary retaining structures. See the Site Plan and Subsurface Profile in Section E for boring and testing information.

Soil Parameters for Temporary Retaining Structures

	Friction	Cohesion,	Wet Unit
	Angle,	С	Weight,
_	φ		Ϋ́w
Brown Silt Clay (Existing Embankment)	18 degrees	100 psf	121 pcf
Black Clay	12 degrees	50 psf	106 pcf
Brown Clay with Gravel	24 degrees	50 psf	122 pcf
Dark Gray Silt Clay (Pierre Shale)	18 degrees	1,900 psf	125 pcf

The design of the temporary retaining structure is the responsibility of the Contractor. The Contractor will submit plans and calculations sealed by a Professional Engineer registered in South Dakota. Do not begin construction of the temporary retaining structure until the plans and calculations have been accepted by the SDDOT Bridge Construction Engineer. Allow a minimum of 15 days for review. The cost for the temporary retaining structure is incidental to the contract unit bid price for Structure Excavation, Bridge.



ESTIMATE OF STRUCTURE QUANTITIES

Description	Quantity	Unit	Remarks
Bridge Elevation Survey	Lump Sum	LS	
Concrete Penetrating Sealer	1754	Sq. Yd.	See Special Provision
Select Granular Backfill	19.6	Ton	
Incidental Work, Structure	Lump Sum	LS	
Structural Steel, Miscellaneous	Lump Sum	LS	
Membrane Sealant Expansion Joint	83.8	Ft.	
Structural Excavation, Bridge	29	Cu.Yd.	
Bridge End Embankment	536	Cu.Yd.	
Granular Bridge End Backfill	119.4	Cu.Yd.	
Approach Slab Underdrain Excavation	9.5	Cu.Yd.	
Precast Concrete Headwall for Drain	2	Each	
Class A45 Concrete, Bridge Deck	605.2	Cu.Yd.	
Class A45 Concrete, Bridge	254.6	Cu.Yd.	
Concrete Approach Slab for Bridge	190.6	Sq.Yd.	
Concrete Approach Sleeper Slab for Bridge	41.9	Sq.Yd.	
Deck Drain, Girder Bridge	3	Each	
Class A45 Concrete, Drilled Shaft	263.8	Cu.Yd.	See Special Provision
Drilled Shaft Excavation	259.4	Cu.Yd.	
56" Permanent Casing	151.1	L.F.	
Reinforcing Steel	82392	Lb.	
Epoxy Coated Reinforcing Steel	2883	Lb.	
Stainless Reinforcing Steel	125037	Lb.	See Special Provision
No. 11 Rebar Splice	108	Each	
Extract Pile	5	Each	
Preboring Pile	180	Ft.	
HP 12x74 Steel Test Pile, Furnish and Drive	140	Ft.	
HP 12x74 Steel Bearing Pile, Furnish and Drive	1040	Ft.	
81" Minnesota Shape Prestressed Concrete Beam	2345	Ft.	
4" Underdrain Pipe	131	Ft.	
Porous Backfill	18	Ton	
Class B Riprap	1611.0	Ton	
Overburden Excavation for Riprap	950	Cu.Yd.	
Type B Drainage Fabric	1922	Sq.Yd.	
Perforated Geocell	560	Sq.Ft.	

BRIDGE SPECIFICATIONS

- Design Specifications: AASHTO LRFD Bridge Design Specifications, 9th Edition.
- Construction Specifications: South Dakota Standard Specifications for Roads and Bridges, 2015 Edition and required provisions, supplemental specifications and special provisions as included in the proposal.

BRIDGE DESIGN LOADING

- 1. Girders are designed continuous for AASHTO HL-93 Live Load.
- 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)	f _v	= 50,000 psi

^{*}For prestressed beams, see notes regarding Prestressed Girders.

GENERAL CONSTRUCTION

- 1. All lap splices shown are contact lap splices unless noted otherwise.
- 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 120.10. 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. The elevation of the bridge deck is 24.5 inches above subgrade elevation.

DESIGN MIX OF CONCRETE

- 1. All structural concrete will be Class A45 Concrete unless otherwise indicated.
- 2. Type II cement conforming to Section 750 is required except Type III cement may be used for prestressed beams.
- 3. Grout design mix will be as specified in Section 460.2 K of the Construction Specifications. A compressive strength of 2000 psi will be attained by the grout prior to erection of any beams. Chamfer edges of grout pads 3/4-inch. The quantity of grout is included in and will be paid for at the contract unit price per cubic yard for Class A45 Concrete, Bridge.

E4

INCIDENTAL WORK, STRUCTURE

- In place centerline Sta. 348+57.38 to centerline Sta. 350+46.88 is a 189.5-foot, 3 span prestressed concrete girder bridge with a 30'-0" clear roadway. The superstructure consists of a reinforced concrete slab with concrete barrier continuous across the bridge. The substructure consists of 2 column reinforced concrete bents and reinforced concrete vertical abutments. The bents are supported on spread footings on rock, and the abutments are supported on 10BP42 Steel Bearing Piles.
- 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. 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 in accordance with the Environmental Commitments found in Section A.
- 3. During demolition of the structure, efforts will be taken to prevent material from falling into the creek. Under no circumstances is asphalt allowed to fall into the creek.
- 4. The foregoing is a general description of the in-place bridge and should not be construed to be complete in all details. Before preparing the bid, it is the responsibility of the Contractor to make a visual inspection of the structure to verify the extent of the work and materials involved. If desired by the Contractor, a copy of the original construction plans may be obtained through the Office of Bridge Design.

ESTIMATE OF STRUCTURE QUANTITIES AND NOTES

FOR

(WESTBOUND LANES)

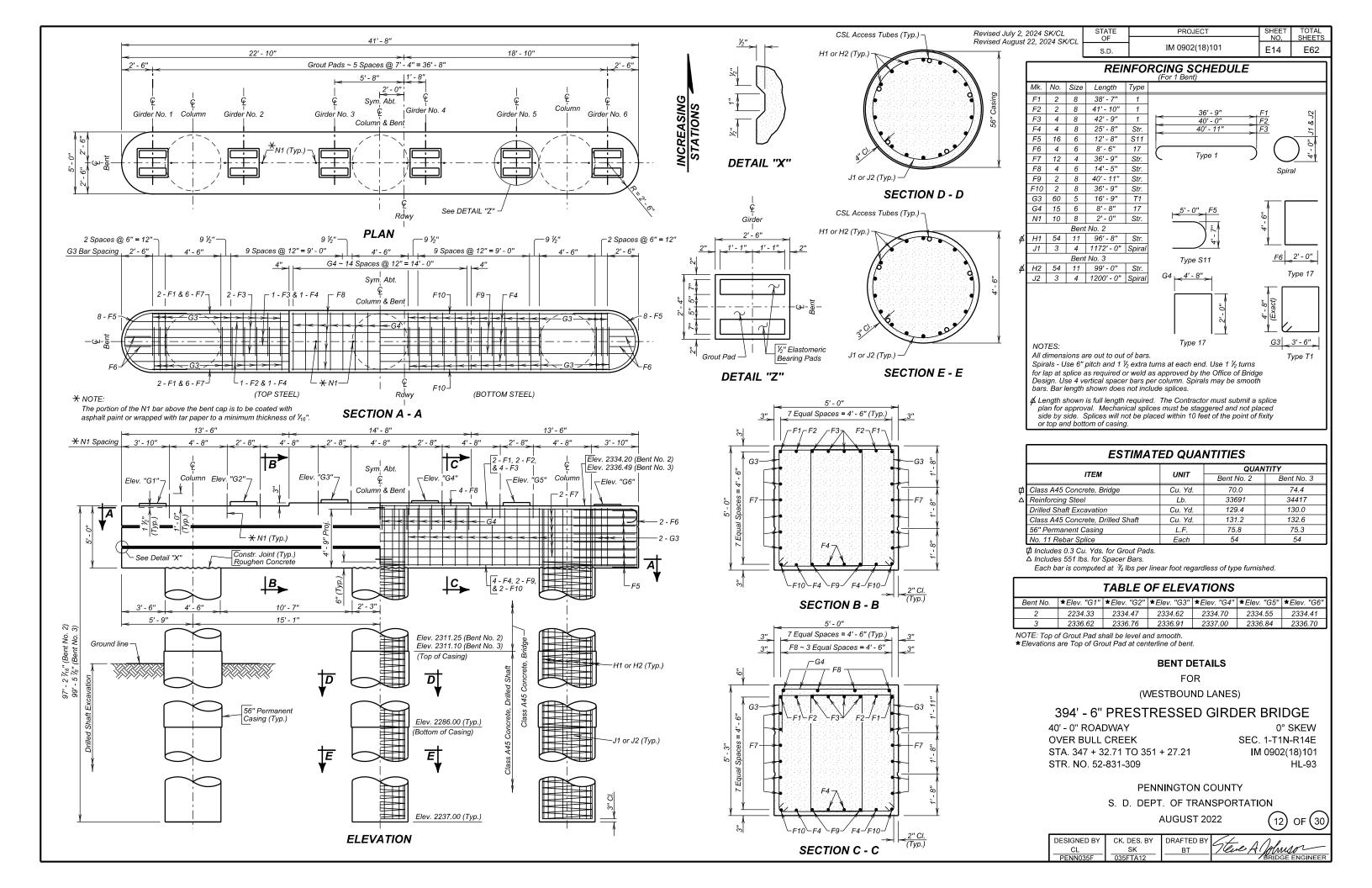
394' - 6" PRESTRESSED GIRDER BRIDGE

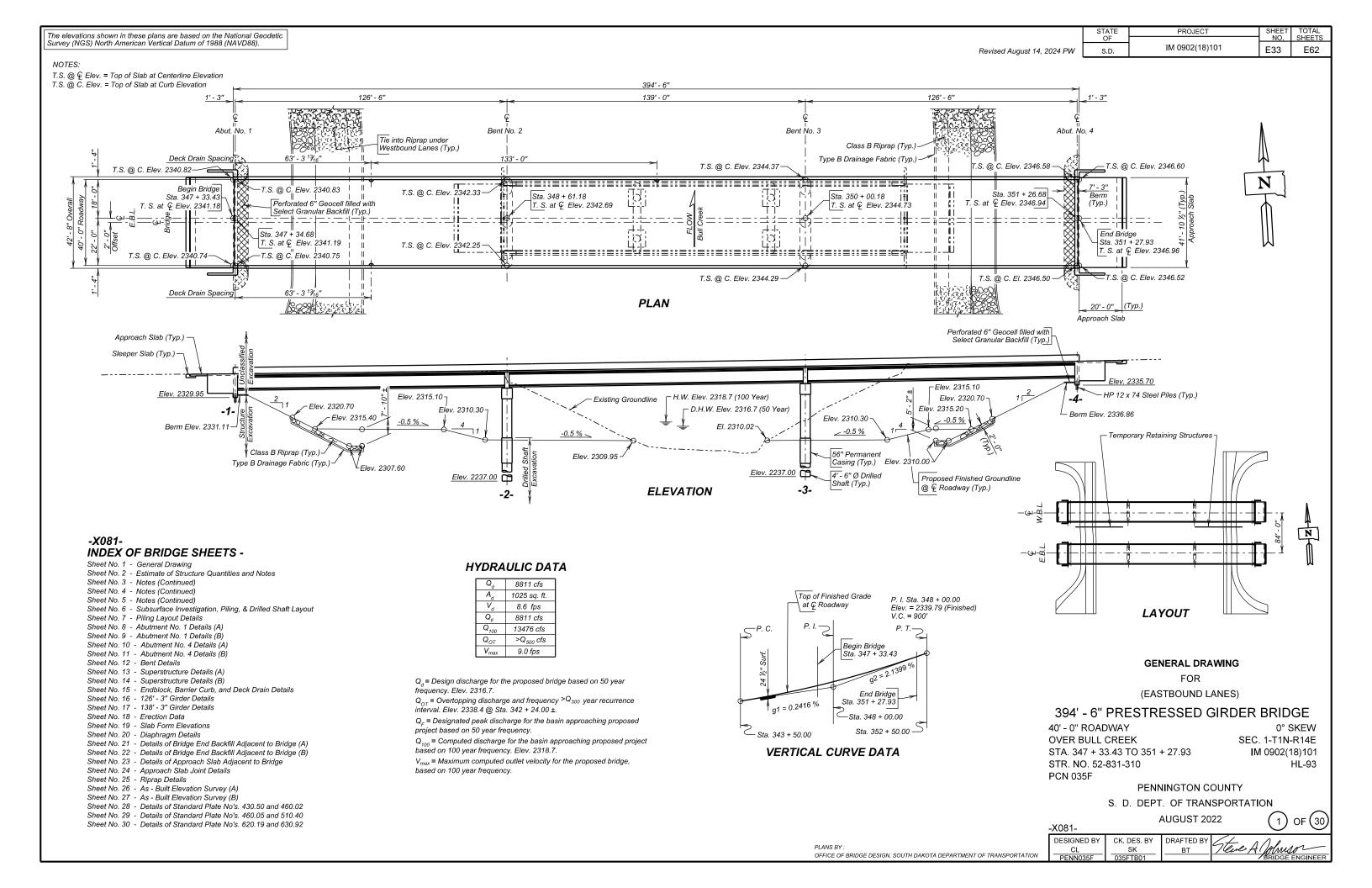
STR. NO. 52-831-309

AUGUST 2022



DESIGNED BY CK. DES. BY DRAFTED BY CL SK BT SRIDGE ENGINEER





ESTIMATE OF STRUCTURE QUANTITIES

Description	Quantity	Unit	Remarks
Bridge Elevation Survey	Lump Sum	LS	
Concrete Penetrating Sealer	1754	Sq. Yd.	See Special Provision
Select Granular Backfill	19.6	Ton	
Incidental Work, Structure	Lump Sum	LS	
Structural Steel, Miscellaneous	Lump Sum	LS	
Membrane Sealant Expansion Joint	83.8	Ft.	
Structural Excavation, Bridge	29	Cu.Yd.	
Bridge End Embankment	537	Cu.Yd.	
Granular Bridge End Backfill	119.4	Cu.Yd.	
Approach Slab Underdrain Excavation	9.5	Cu.Yd.	
Precast Concrete Headwall for Drain	2	Each	
Class A45 Concrete, Bridge Deck	605.2	Cu.Yd.	
Class A45 Concrete, Bridge	255.1	Cu.Yd.	
Concrete Approach Slab for Bridge	190.6	Sq.Yd.	
Concrete Approach Sleeper Slab for Bridge	41.9	Sq.Yd.	
Deck Drain, Girder Bridge	3	Each	
Class A45 Concrete, Drilled Shaft	263.5	Cu.Yd.	See Special Provision
Drilled Shaft Excavation	259.1	Cu.Yd.	
56" Permanent Casing	151.1	L.F.	
Reinforcing Steel	82430	Lb.	
Epoxy Coated Reinforcing Steel	2883	Lb.	
Stainless Reinforcing Steel	125037	Lb.	See Special Provision
No. 11 Rebar Splice	108	Each	
Extract Pile	5	Each	
Preboring Pile	180	Ft.	
HP 12x74 Steel Test Pile, Furnish and Drive	140	Ft.	
HP 12x74 Steel Bearing Pile, Furnish and Drive	1040	Ft.	
81" Minnesota Shape Prestressed Concrete Beam	2345		
4" Underdrain Pipe	131	Ft.	
Porous Backfill	18	Ton	
Class B Riprap	1699.0	Ton	
Overburden Excavation for Riprap	1028	Cu.Yd.	
Type B Drainage Fabric	2020	Sq.Yd.	
Perforated Geocell	560	Sq.Ft.	

BRIDGE SPECIFICATIONS

- Design Specifications: AASHTO LRFD Bridge Design Specifications, 9th Edition.
- Construction Specifications: South Dakota Standard Specifications for Roads and Bridges, 2015 Edition and required provisions, supplemental specifications and special provisions as included in the proposal.

BRIDGE DESIGN LOADING

- 1. Girders are designed continuous / simple for AASHTO HL-93 Live Load.
- 2. Dead Load includes 22 psf for future wearing surface on the roadway.

DESIGN MATERIAL STRENGTHS*

Class A45 Concrete $f'_{c} = 4,500 \text{ psi}$ Reinforcing Steel (ASTM A615, Gr. 60) $f_{y} = 60,000 \text{ psi}$ Stainless Steel (ASTM A955, Gr. 60) $f_{y} = 60,000 \text{ psi}$ Piling (ASTM A572 Grade 50) $f_{y} = 50,000 \text{ psi}$

GENERAL CONSTRUCTION

- 1. All lap splices shown are contact lap splices unless noted otherwise.
- 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 120.10. 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. The elevation of the bridge deck is 24.5 inches above subgrade elevation.

DESIGN MIX OF CONCRETE

- All structural concrete will be Class A45 Concrete unless otherwise indicated.
- 2. Type II cement conforming to Section 750 is required except Type III cement may be used for prestressed beams.
- 3. Grout design mix will be as specified in Section 460.2 K of the Construction Specifications. A compressive strength of 2000 psi will be attained by the grout prior to erection of any beams. Chamfer edges of grout pads 3/4-inch. The quantity of grout is included in and will be paid for at the contract unit price per cubic yard for Class A45 Concrete, Bridge.

INCIDENTAL WORK, STRUCTURE

- In place centerline Sta. 348+57.38 to centerline Sta. 350+46.88 is a 189.5-foot, 3 span prestressed concrete girder bridge with a 30'-0" clear roadway. The superstructure consists of a reinforced concrete slab with concrete barrier continuous across the bridge. The substructure consists of 2 column reinforced concrete bents and reinforced concrete vertical abutments. The bents are supported on spread footings on rock, and the abutments are supported on 10BP42 Steel Bearing Piles.
- 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. 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 in accordance with the Environmental Commitments found in Section A.
- 3. During demolition of the structure, efforts will be taken to prevent material from falling into the creek. Under no circumstances is asphalt allowed to fall into the creek.
- 4. The foregoing is a general description of the in-place bridge and should not be construed to be complete in all details. Before preparing the bid, it is the responsibility of the Contractor to make a visual inspection of the structure to verify the extent of the work and materials involved. If desired by the Contractor, a copy of the original construction plans may be obtained through the Office of Bridge Design.

ESTIMATE OF STRUCTURE QUANTITIES AND NOTES

FOR

(EASTBOUND LANES)

394' - 0" PRESTRESSED GIRDER BRIDGE

STR. NO. 52-831-310 AUGUST 2022



DESIGNED BY CK. DES. BY DRAFTED BY STEW A JOHNSON BRIDGE ENGINEER

^{*}For prestressed beams, see notes regarding Prestressed Girders.

