

January 21, 2025

ADDENDUM NO. 1

**RE: Item #6, January 22, 2025 Letting - NH-CR 0081(122)3, P 0046(87)334, PCN 07V2, 09P4,
Yankton County - Asphalt Concrete Surfacing/Resurfacing, PCC 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.*

Quantities for Bid Items were changed:

Bid Item 110E1010 "Remove Asphalt Concrete Pavement" changed from 11,862.4 to 198.8 SqYd

Bid Item 260E6000 "Granular Material, Furnish" changed from 9,230.2 to 9,198.9 SqYd

Bid Item 270E0020 "Salvage and Stockpile Asphalt Mix Material" changed from 2,747.3 to 2,716.0 Ton

Bid Item 270E0220 "Blend and Stockpile Granular Material" changed from 18,460.4 to 18,397.8 Ton

Bid Item 270E0230 "Haul and Stockpile Asphalt Mix Material" changed from 3,892.7 to 3,861.4 Ton

Bid Item 320E5010 "Saw and Seal Shoulder Joint" changed from 114,890 to 120,965 Ft

PLANS: Please destroy sheets A1, A2, F2, F4, F5 and F10 and replace with the enclosed sheets, dated 1/21/25.

Sheets A1& F2: Section F Estimate of Quantities – PCN 07V2

Quantities for Bid Items were changed:

Bid Item 110E1010 "Remove Asphalt Concrete Pavement" changed from 11,854.6 to 191.0 SqYd

*Bid Item 260E6000 "Granular Material, Furnish" changed from 9,001.1 to 8,971.0 Ton

Bid Item 270E0020 "Salvage and Stockpile Asphalt Mix Material" changed from 2,746.1 to 2,716.0 Ton

Bid Item 270E0220 "Blend and Stockpile Granular Material" changed from 18,002.2 to 17,942.0 Ton

Bid Item 270E0230 "Haul and Stockpile Asphalt Mix Material" changed from 3,891.5 to 3,861.4 Ton

Bid Item 320E5010 "Saw and Seal Shoulder Joint" changed from 114,890 to 119,344 Ft

Sheets A2& F2: Section F Estimate of Quantities – PCN 09P4

Bid Items were Added:

Bid Item 320E5010 “Saw and Seal Shoulder Joint”

Quantities for Bid Items were changed:

* Bid Item 260E6000 “Granular Material, Furnish” changed from 229.1 to 227.9 Ton
Bid Item 270E0220 “Blend and Stockpile Granular Material” changed from 458.2 to 455.8 Ton

Bid Items were Removed:

Bid Item 270E0020 “Salvage and Stockpile Asphalt Mix Material”
Bid Item 270E0230 “Haul and Stockpile Asphalt Mix Material”

Sheet F4: TABLE OF SALVAGE AND STOCKPILE ASPHALT MIX MATERIAL was revised.

Sheet F5: HAUL AND STOCKPILE ASPHALT MIX MATERIAL, BLEND AND STOCKPILE GRANULAR MATERIAL notes were revised.

Sheet F10: TABLE OF SAW AND SEAL SHOULDER JOINT was added.

Sincerely,

Sam Weisgram
Engineering Supervisor

SW/cj

CC: Travis Dressen, Mitchell Region Engineer
Greg Rothschadl, Yankton Area Engineer

ESTIMATE OF QUANTITIES AND ENVIRONMENTAL COMMITMENTS

STATE OF SOUTH DAKOTA	PROJECT	SHEET	TOTAL SHEETS
	NH-CR 0081(122)3 & P 0046(87)334	A1	A3

REVISED 21 January, 2025 - BAH

Section C - Traffic Control

Section F - Surfacing

BID ITEM NUMBER	ITEM	QUANTITY	UNIT
110E5020	Salvage Traffic Sign	8	Each
110E7150	Remove Sign for Reset	25	Each
110E7152	Remove Delineator for Reset	80	Each
260E1010	Base Course	500.0	Ton
632E2100	Reset Delineator	80	Each
632E3500	Reset Sign	25	Each
634E0010	Flagging	350.0	Hour
634E0020	Pilot Car	150.0	Hour
634E0110	Traffic Control Signs	982.0	SqFt
634E0120	Traffic Control, Miscellaneous	Lump Sum	LS
634E0135	Traffic Control Supervisor	Lump Sum	LS
634E0275	Type 3 Barricade	30	Each
634E0340	Temporary Raised Pavement Markers	31.5	Mile
634E0380	Tubular Marker	300	Each
634E0420	Type C Advance Warning Arrow Board	2	Each
634E0640	Temporary Pavement Marking	6,500	Ft
634E1002	Detour and Restriction Signing	947.0	SqFt

BID ITEM NUMBER	ITEM	QUANTITY	UNIT
004E0050	Remove Traffic Diversion(s)	Lump Sum	LS
009E0010	Mobilization	Lump Sum	LS
009E1350	Restoration of Stockpile Site	Lump Sum	LS
009E3210	Construction Staking	7.004	Mile
009E3301	Engineer Directed Surveying/Staking	40.0	Hour
009E3320	Checker	Lump Sum	LS
009E4200	Construction Schedule, Category II	Lump Sum	LS
110E0655	Remove Interim Crossover Closure	160	Ft
110E0730	Remove Beam Guardrail	350.0	Ft
110E0800	Remove W Beam Guardrail End Terminal	4	Each
110E1010	Remove Asphalt Concrete Pavement	191.0	SqYd
110E6410	Remove Type 1 MGS for Reset	600.0	Ft
110E6500	Remove Type 1 Guardrail Transition for Reset	4	Each
110E6619	Remove MGS MASH Tangent End Terminal for Reset	4	Each
120E0010	Unclassified Excavation	181	CuYd
120E0100	Unclassified Excavation, Digouts	128	CuYd
120E0600	Contractor Furnished Borrow	1,029	CuYd
120E6200	Water for Granular Material	579.1	MGal
210E0100	Shoulder Clearing	10.2	Mile
210E1000	Shoulder Preparation	1.000	Mile
210E1005	Surface Preparation	7.500	Mile
210E2000	Shoulder Shaping	7.500	Mile
260E1010	Base Course	4,799.2	Ton
260E1030	Base Course, Salvaged	14,140.3	Ton
260E2010	Gravel Cushion	7,500.0	Ton
* 260E6000	Granular Material, Furnish	8,971.0	Ton
270E0020	Salvage and Stockpile Asphalt Mix Material	2,716.0	Ton
270E0110	Salvage and Stockpile Granular Material	14,140.3	Ton
* 270E0220	Blend and Stockpile Granular Material	17,942.0	Ton
* 270E0230	Haul and Stockpile Asphalt Mix Material	3,861.4	Ton
320E0005	PG 58-34 Asphalt Binder	642.1	Ton
320E1070	Class HR Asphalt Concrete	18,317.1	Ton
320E1200	Asphalt Concrete Composite	370.0	Ton
320E3000	Compaction Sample	6	Each
320E5010	Saw and Seal Shoulder Joint	119,344	Ft
320E7012	Grind 12" Rumble Strip or Stripe in Asphalt Concrete	6.9	Mile
320E7028	Grind Centerline Rumble Stripe in Asphalt Concrete	0.2	Mile
330E0010	MC-70 Asphalt for Prime	96.9	Ton
330E0100	SS-1h or CSS-1h Asphalt for Tack	39.9	Ton
330E0210	SS-1h or CSS-1h Asphalt for Flush Seal	23.9	Ton
330E1000	Blotting Sand for Prime	81.6	Ton
330E2000	Sand for Flush Seal	57.3	Ton
332E0010	Cold Milling Asphalt Concrete	44,039	SqYd

INDEX OF SHEETS

A1 Estimate of Quantities for PCN 07V2 Sections C, D, F, & M
 A2 Estimate of Quantities for PCN 09P4 Sections C, F & M
 A2 to A3 Environmental Commitments

BID ITEM NUMBER	ITEM	QUANTITY	UNIT
380E0050	8" Nonreinforced PCC Pavement	112,186.2	SqYd
380E5010	Fast Track Concrete	1,500.0	SqYd
380E6000	Dowel Bar	73,036	Each
380E6110	Insert Steel Bar in PCC Pavement	34	Each
410E2600	Membrane Sealant Expansion Joint	104.0	Ft
600E0300	Type III Field Laboratory	1	Each
630E0500	Type 1 MGS	387.5	Ft
630E1501	Type 1 Retrofit Guardrail Transition	2	Each
630E1510	Type 3 Guardrail Transition	2	Each
630E2018	MGS MASH Tangent End Terminal	4	Each
630E5010	Reset Type 1 MGS	600.0	Ft
630E5204	Reset MGS MASH Tangent End Terminal	4	Each
630E5300	Reset Type 1 Guardrail Transition	4	Each
632E2220	Guardrail Delineator	38	Each
650E1080	Type F68 Concrete Curb and Gutter	450	Ft
670E1200	Type B Frame and Grate	2	Each
670E5400	Precast Drop Inlet Collar	2	Each
900E0010	Refurbish Single Mailbox	6	Each
900E0012	Refurbish Double Mailbox	5	Each
900E0022	Remove and Reset Mailbox	16	Each

* - Denotes Non-Participating

Section M - Pavement Marking

BID ITEM NUMBER	ITEM	QUANTITY	UNIT
633E1200	High Build Waterborne Pavement Marking Paint, White	281	Gal
633E1205	High Build Waterborne Pavement Marking Paint, Yellow	180	Gal
633E3000	Durable Pavement Marking, 4" White	50,525	Ft
633E3005	Durable Pavement Marking, 4" Yellow	43,600	Ft
633E3010	Durable Pavement Marking, 8" White	1,600	Ft
633E3030	Durable Pavement Marking, 24" White	784	Ft
633E3035	Durable Pavement Marking, 24" Yellow	420	Ft
633E3045	Durable Pavement Marking, Arrow	20	Each
633E3060	Durable Pavement Marking, Message	6	Word
633E5050	Surface Preparation for Pavement Marking	4,000	Ft
633E5052	Surface Preparation for Pavement Marking	10	Each
633E5100	Grooving for Durable Pavement Marking, 4"	91,700	Ft
633E5105	Grooving for Durable Pavement Marking, 8"	1,600	Ft
633E5115	Grooving for Durable Pavement Marking, 24"	540	Ft
633E5125	Grooving for Durable Pavement Marking, Arrow	14	Each

PCN 09P4 - Section C – Traffic Control

Section D - Erosion and Sediment Control

BID ITEM NUMBER	ITEM	QUANTITY	UNIT
110E1690	Remove Sediment	6.5	CuYd
110E1693	Remove Erosion Control Wattle	700	Ft
110E1700	Remove Silt Fence	950	Ft
230E0100	Remove and Replace Topsoil	Lump Sum	LS
730E0100	Cover Crop Seeding	2.0	Bu
730E0212	Type G Permanent Seed Mixture	59	Lb
731E0200	Fertilizing	1.10	Ton
732E0100	Mulching	3.6	Ton
734E0044	Soil Stabilizer	0.5	Acre
734E0103	Type 3 Erosion Control Blanket	2,429	SqYd
734E0154	12" Diameter Erosion Control Wattle	2,800	Ft
734E0165	Remove and Reset Erosion Control Wattle	700	Ft
734E0602	Low Flow Silt Fence	2,800	Ft
734E0604	High Flow Silt Fence	1,000	Ft
734E0610	Mucking Silt Fence	264	CuYd
734E0620	Repair Silt Fence	950	Ft
900E1320	Construction Entrance	2	Each

BID ITEM NUMBER	ITEM	QUANTITY	UNIT
634E0010	Flagging	80.0	Hour
634E0020	Pilot Car	20.0	Hour
634E0110	Traffic Control Signs	293.0	SqFt
634E0120	Traffic Control, Miscellaneous	Lump Sum	LS

PCN 09P4 - Section F – Surfacing

BID ITEM NUMBER	ITEM	QUANTITY	UNIT
009E0010	Mobilization	Lump Sum	LS
110E1010	Remove Asphalt Concrete Pavement	7.8	SqYd
120E0100	Unclassified Excavation, Digsouts	5	CuYd
120E6200	Water for Granular Material	0.6	MGal
210E0100	Shoulder Clearing	0.4	Mile
260E1010	Base Course	55.3	Ton
* 260E6000	Granular Material, Furnish	227.9	Ton
* 270E0220	Blend and Stockpile Granular Material	455.8	Ton
320E0005	PG 58-34 Asphalt Binder	7.7	Ton
320E1070	Class HR Asphalt Concrete	218.9	Ton
320E3000	Compaction Sample	3	Each
320E5010	Saw and Seal Shoulder Joint	1,621	Ft
330E0100	SS-1h or CSS-1h Asphalt for Tack	0.6	Ton
330E0210	SS-1h or CSS-1h Asphalt for Flush Seal	0.4	Ton
332E0010	Cold Milling Asphalt Concrete	1,946	SqYd

PCN 09P4 - Section M – Pavement Marking

BID ITEM NUMBER	ITEM	QUANTITY	UNIT
633E3000	Durable Pavement Marking, 4" White	2,423	Ft
633E3005	Durable Pavement Marking, 4" Yellow	2,842	Ft
633E3030	Durable Pavement Marking, 24" White	96	Ft
633E3035	Durable Pavement Marking, 24" Yellow	400	Ft
633E3045	Durable Pavement Marking, Arrow	3	Each
633E3060	Durable Pavement Marking, Message	6	Word
633E5050	Surface Preparation for Pavement Marking	5,761	Ft
633E5052	Surface Preparation for Pavement Marking	7	Each

SPECIFICATIONS

Standard Specifications for Roads and Bridges, 2015 Edition and Required Provisions, Supplemental Specifications, and Special Provisions as included in the Proposal.

ENVIRONMENTAL COMMITMENTS

The SDDOT is committed to protecting the environment and uses Environmental Commitments as a communication tool for the Engineer and Contractor to ensure that attention is given to avoid, minimize, and/or mitigate an environmental impact. Environmental commitments to various agencies and the public have been made to secure approval of this project. An agency with permitting authority can delay a project if identified environmental impacts have not been adequately addressed. Unless otherwise designated, the Contractor's primary contact regarding matters associated with these commitments will be the Project Engineer. During construction, the Project Engineer will verify that the Contractor has met Environmental Commitment requirements. These environmental commitments are not subject to change without prior written approval from the SDDOT Environmental Office.

Additional guidance on SDDOT's Environmental Commitments can be accessed through the Environmental Procedures Manual found at: <https://dot.sd.gov/media/documents/EnvironmentalProceduresManual.pdf>

For questions regarding change orders in the field that may have an effect on an Environmental Commitment, the Project Engineer will contact the Environmental Engineer at 605-773-3180 or 605-773-4336 to determine whether an environmental analysis and/or resource agency coordination is necessary.

Once construction is complete, the Project Engineer will review all environmental commitments for the project and document their completion.

COMMITMENT C: WATER SOURCE

The Contractor will not withdraw water with equipment previously used outside the State of South Dakota or previously used in aquatic invasive species (AIS) positive waters within South Dakota without prior approval from the SDDOT Environmental Office. To prevent and control the introduction and spread of invasive species into the project vicinity, all equipment will be power washed with hot water (≥140 °F) and completely dried for a minimum of 7 days prior to subsequent use. South Dakota administrative rule 41:10:04:02 forbids the possession and transport of AIS; therefore, all attached dirt, mud, debris and vegetation must be removed and all compartments and tanks capable of holding standing water must be drained. This includes, but is not limited to, all equipment, pumps, lines, hoses and holding tanks.

The Contractor will not withdraw water directly from streams of the James, Big Sioux, and Vermillion watersheds without prior approval from the SDDOT Environmental Office.

Action Taken/Required:

The Contractor will obtain the necessary permits from the regulatory agencies such as the South Dakota Department of Agriculture and Natural Resources (DANR) and the United States Army Corps of Engineers (USACE) prior to water extraction activities.

Additional information and mapping of water sources impacted by Aquatic Invasive Species in South Dakota can be accessed at:

< <https://sdleastwanted.sd.gov/maps/default.aspx> >

< [South Dakota Administrative Rule 41:10:04 Aquatic Invasive Species: https://sdlegislature.gov/rules/DisplayRule.aspx?Rule=41:10:04](https://sdlegislature.gov/rules/DisplayRule.aspx?Rule=41:10:04) >

SECTION F – ESTIMATE OF QUANTITIES
PCN 07V2

BID ITEM NUMBER	ITEM	QUANTITY	UNIT
004E0050	Remove Traffic Diversion(s)	Lump Sum	LS
009E0010	Mobilization	Lump Sum	LS
009E1350	Restoration of Stockpile Site	Lump Sum	LS
009E3210	Construction Staking	7.004	Mile
009E3301	Engineer Directed Surveying/Staking	40.0	Hour
009E3320	Checker	Lump Sum	LS
009E4200	Construction Schedule, Category II	Lump Sum	LS
110E0655	Remove Interim Crossover Closure	160	Ft
110E0730	Remove Beam Guardrail	350.0	Ft
110E0800	Remove W Beam Guardrail End Terminal	4	Each
110E1010	Remove Asphalt Concrete Pavement	191.0	SqYd
110E6410	Remove Type 1 MGS for Reset	600.0	Ft
110E6500	Remove Type 1 Guardrail Transition for Reset	4	Each
110E6619	Remove MGS MASH Tangent End Terminal for Reset	4	Each
120E0010	Unclassified Excavation	181	CuYd
120E0100	Unclassified Excavation, Digouts	128	CuYd
120E0600	Contractor Furnished Borrow	1,029	CuYd
120E6200	Water for Granular Material	579.1	MGal
210E0100	Shoulder Clearing	10.2	Mile
210E1000	Shoulder Preparation	1.000	Mile
210E1005	Surface Preparation	7.500	Mile
210E2000	Shoulder Shaping	7.500	Mile
260E1010	Base Course	4,799.2	Ton
260E1030	Base Course, Salvaged	14,140.3	Ton
260E2010	Gravel Cushion	7,500.0	Ton
* 260E6000	Granular Material, Furnish	8,971.0	Ton
270E0020	Salvage and Stockpile Asphalt Mix Material	2,716.0	Ton
270E0110	Salvage and Stockpile Granular Material	14,140.3	Ton
* 270E0220	Blend and Stockpile Granular Material	17,942.0	Ton
* 270E0230	Haul and Stockpile Asphalt Mix Material	3,861.4	Ton
320E0005	PG 58-34 Asphalt Binder	642.1	Ton
320E1070	Class HR Asphalt Concrete	18,317.1	Ton
320E1200	Asphalt Concrete Composite	370.0	Ton
320E3000	Compaction Sample	6	Each
320E5010	Saw and Seal Shoulder Joint	119,344	Ft
320E7012	Grind 12" Rumble Strip or Stripe in Asphalt Concrete	6.9	Mile
320E7028	Grind Centerline Rumble Stripe in Asphalt Concrete	0.2	Mile
330E0010	MC-70 Asphalt for Prime	96.9	Ton
330E0100	SS-1h or CSS-1h Asphalt for Tack	39.9	Ton
330E0210	SS-1h or CSS-1h Asphalt for Flush Seal	23.9	Ton
330E1000	Blotting Sand for Prime	81.6	Ton
330E2000	Sand for Flush Seal	57.3	Ton
332E0010	Cold Milling Asphalt Concrete	44,039	SqYd

SECTION F – ESTIMATE OF QUANTITIES
PCN 07V2

BID ITEM NUMBER	ITEM	QUANTITY	UNIT
380E0050	8" Nonreinforced PCC Pavement	112,186.2	SqYd
380E5010	Fast Track Concrete	1,500.0	SqYd
380E6000	Dowel Bar	73,036	Each
380E6110	Insert Steel Bar in PCC Pavement	34	Each
410E2600	Membrane Sealant Expansion Joint	104.0	Ft
600E0300	Type III Field Laboratory	1	Each
630E0500	Type 1 MGS	387.5	Ft
630E1501	Type 1 Retrofit Guardrail Transition	2	Each
630E1510	Type 3 Guardrail Transition	2	Each
630E2018	MGS MASH Tangent End Terminal	4	Each
630E5010	Reset Type 1 MGS	600.0	Ft
630E5204	Reset MGS MASH Tangent End Terminal	4	Each
630E5300	Reset Type 1 Guardrail Transition	4	Each
632E2220	Guardrail Delineator	38	Each
650E1080	Type F68 Concrete Curb and Gutter	450	Ft
670E1200	Type B Frame and Grate	2	Each
670E5400	Precast Drop Inlet Collar	2	Each
900E0010	Refurbish Single Mailbox	6	Each
900E0012	Refurbish Double Mailbox	5	Each
900E0022	Remove and Reset Mailbox	16	Each

* - Denotes Non-Participating

PCN 09P4

BID ITEM NUMBER	ITEM	QUANTITY	UNIT
009E0010	Mobilization	Lump Sum	LS
110E1010	Remove Asphalt Concrete Pavement	7.8	SqYd
120E0100	Unclassified Excavation, Digouts	5	CuYd
120E6200	Water for Granular Material	0.6	MGal
210E0100	Shoulder Clearing	0.4	Mile
260E1010	Base Course	55.3	Ton
* 260E6000	Granular Material, Furnish	227.9	Ton
* 270E0220	Blend and Stockpile Granular Material	455.8	Ton
320E0005	PG 58-34 Asphalt Binder	7.7	Ton
320E1070	Class HR Asphalt Concrete	218.9	Ton
320E3000	Compaction Sample	3	Each
320E5010	Saw and Seal Shoulder Joint	1,621	Ft
330E0100	SS-1h or CSS-1h Asphalt for Tack	0.6	Ton
330E0210	SS-1h or CSS-1h Asphalt for Flush Seal	0.4	Ton
332E0010	Cold Milling Asphalt Concrete	1,946	SqYd

UTILITIES

The Contractor will contact the involved utility companies through South Dakota One Call (1-800-781-7474) prior to starting work. It will be the responsibility of the Contractor to coordinate work with the utility owners to avoid damage to existing facilities.

If utilities are identified near the improvement area through the SD One Call Process as required by South Dakota Codified Law 49-7A and Administrative Rule Article 20:25, the Contractor will contact the Engineer to determine modifications that will be necessary to avoid utility impacts.

The Contractor will be aware that the existing utilities shown in the plans were surveyed prior to the design of this project and might have been relocated or replaced by a new utility facility prior to construction of this project, might be relocated or replaced by a new utility facility during the construction of this project, or might not require adjustment and may remain in its current location. The Contractor will contact each utility owner and confirm the status of all existing and new utility facilities. The utility contact information is provided elsewhere in the plans or bidding documents.

TYPE III FIELD LABORATORY

The lab will be equipped with an internet connection such as DSL, cable modem, or other approved service. The internet connection will be provided with a multi-port wireless router. The internet connection will be a minimum speed of 5 Mbps unless limited by job location and approved by the DOT. Prior to installing the wireless router, the Contractor will submit the wireless router's technical data to the Area Office to check for compatibility with the state's computer equipment. The internet connection is intended for state personnel usage only. The Contractor's personnel are prohibited from using the internet connection unless pre-approved by the Project Engineer. These items will be incidental to the contract unit price per each for "Type III Field Laboratory".

PROTECTION OF BRIDGE JOINTS

It may be necessary to use special methods and equipment to remove/place material as close as practical to structure appurtenances. Also, the Contractor will mask all expansion joints prior to any removal/placement of material near the joints. The joints will be protected throughout completion of the work. Once the masking has been removed any loose material contained within the joint will be cleaned from the joint. Any damage to the expansion joints along with any existing structure appurtenances will be repaired by the Contractor to the satisfaction of the Engineer at no cost to the Department. All costs related to this work will be incidental to various contract items.

SHOULDER CLEARING

Vegetation and accumulated material on or adjacent to the existing roadway edge will be removed by the Contractor, to the satisfaction of the Engineer, prior to cold milling. Any remaining windrow of accumulated material will be spread evenly on the inslope adjacent to the asphalt shoulder, to the satisfaction of the Engineer, following application of the flush seal.

The Contractor will notify the Yankton Area Office at (605) 668-2929 at least two weeks prior to beginning cold milling work on this project so SDDOT personnel can mow and/or spray along the shoulder and inslopes. The Department will not be responsible for the effectiveness of the mowing or spraying.

Each shoulder will be measured for payment. Costs associated with this work will be included in the contract unit price per mile for Shoulder Clearing.

SURFACE PREPARATION

Prior to trimming and placement of the Nonreinforced PCC Pavement, the Contractor will be required to prepare the upper 3" of the existing granular and Asphalt Surface Treatment, In Place surfacing according to the Surface Preparation specifications provided in Section 210. Care will be taken to avoid disturbing the underlying subgrade during the Surface Preparation operation.

The locations provided on the typical sections for Asphalt Surface Treatment, In Place, represent the locations where an asphalt surface treatment is anticipated to be in place at the time of construction. The Contractor is advised that locations and dimensions of actual Asphalt Surface Treatment, In Place, may vary from that given on the typical sections. There will be no increase in the payment for Surface Preparation based on the actual surface treatment in place at the time of construction.

Quantities for Surface Preparation have been provided for the entire length of the Nonreinforced PCC Pavement. In no case will Surface Preparation operations ahead of Nonreinforced PCC Pavement placement operations exceed fourteen calendar days.

SHOULDER PREPARATION

Included in the Estimate of Quantities is 0.5 miles of Shoulder Preparation for shoulder resurfacing areas for each shoulder for a total of 1 mile of Shoulder Preparation to be used at locations determined by the Engineer.

Where indicated by the Engineer the existing shoulder material will be scarified, reprocessed if required, reshaped, reworked and compacted in accordance with Section 260.3.C to the shape and elevations shown on the typical sections prior to asphalt concrete placement on the shoulder. Cost for this work will be incidental to the contract unit price per mile for "Shoulder Preparation". Compaction will be to the satisfaction of the Engineer.

Included in the Estimate of Quantities is 150 tons of Base Course and 5 tons of MC-70 Asphalt for Prime to be used during Shoulder Preparation prior to the placement of the Class HR Asphalt Concrete placement.

Shoulder Preparation will be paid for at the contract unit price per mile. Payment will be full compensation for scarifying, reprocessing, reworking,

reshaping and compacting, equipment, labor, and incidentals necessary to satisfactorily complete the work.

Water needed for compaction will be incidental to the contract unit price per mile for "Shoulder Preparation".

SHOULDER SHAPING

The Contractor will remove all granular material generated from the Construction Haul Road to a separate stockpile site as directed by the Engineer. This material may be reused as Base Course, Salvaged at the discretion of the Engineer.

After removal of the Haul Road material and prior to paving the shoulders, the existing Base Course or Base Course, Salvaged on the shoulders will be reshaped and compacted with adequate moisture as determined by the Engineer until a uniform, stable surface is obtained.

After Shoulder Shaping is completed, the shoulder granular material will be placed as specified, according to the Base Course or Base Course, Salvaged requirements.

Included in the Estimate of Quantities are 7.5 miles of Shoulder Shaping for both shoulders.

Included in the Estimate of Quantities is 10 MGal of Water for Granular Material per mile for compaction of granular material associated with Shoulder Shaping.

All costs associated with removing, hauling, stockpiling, and shaping the granular material will be incidental to the contract unit price per mile bid for Shoulder Shaping.

RESTORATION OF STOCKPILE SITE

A stockpile of salvaged asphalt mix material produced from project PCN 04G5 is located within 1 mile of the project. Removal of any remaining stockpiled material will be paid for under the contract unit price for Haul and Stockpile Asphalt Mix Material.

The Contractor will remove the entrance (including pipe) used for access and clean up the stockpile site. The Contractor will scarify, replace and blade smooth the upper six inches of topsoil in the stockpile site upon completion of the project.

All costs associated with this work will be incidental to the lump sum unit price bid for "Restoration of Stockpile Site".

CONSTRUCTION HAUL ROAD

Included in the Estimate of Quantities are 1,000 tons of Gravel Cushion per mile, and 12 MGal of Water for Granular Material per mile for haul road construction. The use of this material will be at the discretion of the Contractor. Any additional construction and removal for the construction haul road will be the Contractor's responsibility. The Contractor will receive no additional compensation for this work.

The Gravel Cushion used to construct the haul road will be compacted in the same manner and to the same specifications as the adjacent material below mainline.

All costs associated with construction of the haul road will be incidental to the "Gravel Cushion" quantities provided.

TABLE OF SALVAGE AND STOCKPILE ASPHALT MIX MATERIAL

Location of Salvage Areas	Salvage and Stockpile Asphalt Mix Material
	Tons
07V2:	
Sta.10+05 to Sta. 12+45 NB & SB	364.8
Sta. 78+56.49 to Sta. 82+98.57 NB	457.7
Sta. 79+80 to Sta. 83+22.15 SB	457.7
Sta. 84+52.26 to Sta. 87+94.33 NB	334.7
Sta. 84+75.84 to Sta. 89+17.84 SB	334.7
Sta. 205+70 to Sta. 208+10	192.0
Intersecting Roads and Entrances	204.4
AC Composite for Temporary Traffic Control	370.0
Total	2,716.0

SALVAGE ASPHALT MIX MATERIAL

The Los Angeles Abrasion Loss value on the aggregate used for the in-place asphalt concrete was unknown.

The table above includes quantities of asphalt mix material that will be salvaged from the existing highways and hauled and stockpiled according to the Haul and Stockpile Asphalt Mix Material plan note.

The quantity of salvaged asphalt mix material may vary from the plans.

SALVAGE AND STOCKPILE GRANULAR MATERIAL

The in-place asphalt concrete surfacing will be salvaged and stockpiled for use as base course, salvaged. Care will be taken not to waste the in-place base course. Excess in-place base course will be salvaged and stockpiled. Salvaged material will be processed to meet the requirements of Section 884.2 D.2 prior to stockpiling. The Contractor will ensure that no vegetation, topsoil, subgrade, or other foreign material is incorporated into the salvaged granular base material.

The salvaged granular material, estimated at approximately 7,482 cubic yards, will be used as Base Course, Salvaged and any excess will remain the property of the State.

HAUL AND STOCKPILE ASPHALT MIX MATERIAL

Salvaged asphalt concrete material produced from salvaging on PCN 07V2 estimated at 2,716.0 tons and excess stockpiled salvaged asphalt concrete produced from PCN 04G5 not used as RAP in the Class HR Asphalt Concrete estimated at up to 1,145.4 tons (for informational purposes only) and asphalt concrete material produced from cold milling will be hauled and stockpiled in the SW ¼ of Section 36, Township 94 North, Range 56 West of the 5th P.M, Yankton County, South Dakota at the Yankton SDDOT Maintenance Shop. The Contractor will have approval from the Engineer of the stockpile location prior to stockpiling the material within the aforementioned site.

A computerized scale, portable platform scale, stationary commercial scale, stationary commercial plant, portable plant scale, or a belt scale along with a scale operator will be provided by the Contractor at the stockpile site to weigh the salvaged material prior to stockpiling.

The salvaged asphalt concrete material will be crushed to meet the requirements of Section 884.2 D.3 prior to stockpiling.

No further gradation testing of the material will be required.

All other costs for crushing, hauling, and stockpiling the salvaged asphalt concrete material will be incidental to the contract unit price per ton for "Haul and Stockpile Granular Material".

BLEND AND STOCKPILE GRANULAR MATERIAL

Salvaged asphalt concrete material produced from cold milling and salvaging on PCN 07V2 estimated at 7,825.6 tons (for informational purposes only) and excess stockpiled salvaged asphalt concrete produced from PCN 04G5 not used as RAP in the Class HR Asphalt Concrete estimated at up to 1,145.4 tons (for informational purposes only) will be blended with 8,971.0 tons of Granular Material, Furnish and salvaged asphalt concrete material produced from cold milling on PCN 09P4 estimated at 227.9 tons (for informational purposes only) will be blended with 227.9 tons of Granular Material, Furnish and stockpiled in the SW ¼ of Section 36, Township 94 North, Range 56 West of the 5th P.M, Yankton County, South Dakota at the Yankton SDDOT Maintenance Shop. The Contractor will have approval from the Engineer of the stockpile location prior to stockpiling the material within the aforementioned site.

The Contractor will use a portable platform scale, stationary commercial scale, stationary commercial plant, portable plant scale, or a belt scale to control the blending and weighing of the salvage material with Contractor furnished granular material.

The salvaged asphalt mix material will be crushed to meet the requirements of Section 884.2 D.2 prior to blending into the stockpile.

Salvaged asphalt mix material will be blended with Granular Material, Furnish at a rate of 50% salvaged asphalt mix material and 50% Granular Material, Furnish to obtain stockpile material. Material will be uniformly blended to the satisfaction of the Engineer.

No further gradation testing of the blended material will be required.

All costs for stockpiling and blending the materials will be incidental to the contract unit price per ton for "Blend and Stockpile Granular Material".

WATER FOR GRANULAR MATERIAL

Included in the Estimate of Quantities are 25 MGal of Water for Granular Material per mile for compaction.

WATER FOR COMPACTION

Water for compaction of earth embankments will be applied at the rate of 10 gallons per cubic yard of Unclassified Excavation. The cost of the water will be incidental to the contract unit price per cubic yard for "Unclassified Excavation".

GRANULAR MATERIAL, FURNISH

Granular material will be furnished by the Contractor for use in blending with the salvaged asphalt mix material.

The granular material will be Base Course meeting the requirements of Section 882.

BASE COURSE, SALVAGED

Base Course, Salvaged will be obtained from the material produced on this project and may be used without further gradation testing.

All other requirements for Base Course, Salvaged will apply.

COLD MILLING ASPHALT CONCRETE

The Los Angeles Abrasion Loss value on the aggregate used for the in-place asphalt concrete was 25. This value was obtained from testing during construction of the in-place asphalt concrete.

Cold milling asphalt concrete will be done according to the typical section(s). The milling depth on the shoulders will be measured from the top of the concrete. In areas where maintenance patches have raised and/or widened the shoulder, additional asphalt concrete will be milled to provide a uniform typical section from edge of concrete to the edge of the finished shoulder. Any additional costs associated with this additional cold milling will be incidental to the contract unit price per square yard for Cold Milling Asphalt Concrete.

Cold milling asphalt is estimated to produce 5,337.5 tons of cold milled asphalt concrete material. An estimated 5,337.5 tons of cold milled asphalt concrete material will be hauled and stockpiled according to the Haul and Stockpile Asphalt Mix Material plan note.

TABLE OF COLD MILLING

Location	Plan Area	Cold Milled Asphalt Concrete Material
	SqYd	Ton
US81		
Sta. a114+02 to Sta. a115+20	212.8	24.9
Sta. a115+20 to Sta. a219+14.50	17,324.2	2,010.0
Sta. 348+95.12 to Sta. 509+23.96	26,714.7	3,099.6
Totals 07V2:	44,038.9	5,109.6
SD46		
Sta. 6+16.50 to sta. 9+77.11	601.0	69.7
Sta. 9+77.11 to Sta. 15+10.90	1,008.3	118.9
Sta. 15+10.90 to Sta. 17+00.00	336.2	39.3
Totals 09P4:	1,945.5	227.9

CLASS HR ASPHALT CONCRETE

An estimated 7,154.6 tons of RAP is needed for the Class HR mixture. The Class HR Asphalt Concrete will include 40 percent RAP in the mixture.

RAP will be obtained from the stockpiled salvaged asphalt mix material produced from project PCN 04G5, estimated at 8,300 tons, located within 1 mile of the project. The RAP produced from PCN 04G5 was planned to be removed and stockpiled the year prior to this project. The RAP was processed to meet the requirements of Section 884.2 D.6 prior to stockpiling. There is potential that some of the RAP has clumped or gummed together since the time it was processed and stockpiled. The Contractor may be required to re-process the material to meet the requirements of Section 884.2 C.1, prior to incorporating into the mixture. This determination will be made by the Engineer during construction. All costs to process the material will be incidental to "Class HR Hot Mixed Asphalt Concrete".

When directed by the Engineer, the Contractor will saw and remove a total of three undamaged compaction cores per asphalt concrete lift from designated area(s) and repair the hole(s) to the satisfaction of the Engineer. All costs associated with the compaction cores will be incidental to the contract unit price per each for "Compaction Sample".

All other requirements for Class HR Asphalt Concrete will apply.

ASPHALT CONCRETE COMPOSITE

Asphalt Concrete Composite shall be furnished by the Contractor.

The Asphalt Concrete Composite will extend over and fill the existing shoulder rumble strip where temporary widening is needed.

Mineral aggregate for the Asphalt Concrete Composite shall conform to the requirements of the Standard Specifications for Class E or G, Type 1 or 2.

The Contractor shall provide a Job-Mix Formula to the Bituminous Engineer with supporting mix design date prior to production.

GRIND RUMBLE STRIPS IN ASPHALT CONCRETE

Asphalt concrete rumble strips will be constructed on the median shoulders. Rumble strips will be paid for at the contract unit price per mile for Grind 12" Rumble Strip or Stripe in Asphalt Concrete. It is estimated that 6.9 miles of asphalt concrete rumble strips will be required.

Rumble strip installation will be completed prior to application of the flush seal and permanent pavement markings. A flush seal will be applied to the newly installed 12" rumble strips at a width of 18" and a rate of 0.10 gal./SqYd. All costs associated with placing the flush seal will be incidental to the contract unit price per ton for "SS-1h or CSS-1h Asphalt for Flush Seal".

GRIND CENTERLINE RUMBLE STRIPE IN ASPHALT CONCRETE

Rumble stripes will be constructed on the centerline from Sta. 199+88 to Sta. 208+10. Rumble stripes will be paid for at the contract unit price per mile for Grind Centerline Rumble Stripe in Asphalt Concrete. It is estimated that 0.2 miles of rumble stripes will be required.

Rumble stripe installation will be completed prior to application of the flush seal and permanent pavement markings. A flush seal will be applied to the newly installed rumble stripes at a width of 24" and a rate of 0.10 gal./SqYd. All costs associated with placing the flush seal will be incidental to the contract unit price per ton for "SS-1h or CSS-1h Asphalt for Flush Seal".

REMOVE TRAFFIC DIVERSION

Upon completion of the project the Median Crossover at MRM 5.00+0.808 will be removed. The asphalt concrete, granular material and pit run material will be disposed of by the Contractor as approved by the Engineer. All culverts and pipe end sections will become the property of the Contractor.

Cost for removing the asphalt concrete and granular material and removal of culverts and pipe end sections will be incidental to the contract lump sum price for "Remove Traffic Diversion(s)".

DROP INLETS

Drop Inlets were installed with temporary covers under a previous contract. Contractor will remove and dispose of the temporary covers installed on the drop inlets. All costs for removal and disposal of the covers will be incidental to the contract unit prices for the Type B Frames and Grates.

Under the previous contract, weep holes were drilled in the drop inlets for drainage during the period between grading and final surfacing. After the permanent surfacing has been placed, the Contractor will seal the weep holes with grout and remove all debris from the drop inlet. All costs involved with sealing the weep holes and removing debris from the drop inlets will be incidental to the contract unit prices for the Type B Frames and Grates.

TABLE OF DROP INLETS AND QUANTITIES

Station	L / R	Drop Inlet Size	Drop Inlet Type	Precast Drop Inlet Collar (Each)	Frame and Grate/Lid Type
64+75	L	2'x3'	B	1	B
64+90	L	2'x3'	B	1	B
Totals:				2	

Total Type B Frame and Grate 2

TABLE OF TYPE F68 CONCRETE CURB AND GUTTER

Station	to	Station	L/R	Quantity (Ft)
60+47.54		65+00.00	L	449.7
Total:				449.7

CONSTRUCTION STAKING DATA

Construction staking data from the grading and in-place interim surfacing project, NH-B 0081(103)06, PCN 04G5, can be obtained from the Yankton Area office.

The Contractor must request this information from the Yankton Area Engineer at least two weeks prior to beginning staking work.

TABLE OF DOWEL BARS

Location	12 Bar Assembly
	Dowel Bar (Size 1 1/4")
	Each
Sta. 10+05 to Sta. 82+98.57 NB	14,417
Sta. 10+05 to Sta. 83+22.15 SB	14,793
Sta. 84+52.26 to Sta. 192+53.80 NB	21,906
Sta. 84+75.84 to Sta. 192+53.80 SB	21,920
Total:	73,036

TABLE OF SAW AND SEAL SHOULDER JOINT

Location	Begin Station	to	End Station	Feet
Mainline - NB Lanes				
Outside Shoulder	a 114+02.00	to	a 219+14.50	10,512.5
Median Shoulder	10+05.00	to	16+50.00	645.0
	31+50.00	to	82+98.56	5,148.6
	84+52.26	to	124+63.76	4,011.5
	132+03.57	to	181+34.93	4,931.4
	186+54.84	to	192+79.80	625.0
Outside Shoulder	10+05.00	to	82+98.56	7,293.6
	84+52.26	to	192+79.80	10,827.5
Mainline - SB Lanes				
Outside Shoulder	a 114+02.00	to	a 219+14.50	10,512.5
Median Shoulder	10+05.00	to	16+50.00	645.0
	31+50.00	to	83+22.14	5,172.1
	84+75.84	to	129+82.57	4,506.7
	134+89.57	to	184+07.93	4,918.4
	191+61.84	to	192+79.80	118.0
Outside Shoulder	10+05.00	to	83+22.14	7,317.1
	84+75.84	to	192+79.80	10,804.0
Mainline - NB & SB Lanes				
Lt. Shoulder	348+95.12	to	408+18.84	5,923.7
	411+70.18	to	509+23.96	9,753.8
	Total 07V2:			119,343.9
PCN 09P4				
Lt. Shoulder	6+13.60	to	15+08.91	895.3
Rt. Shoulder	6+13.60	to	9+32.68	319.1
	11+02.51	to	15+08.91	406.4
	Total 09P4:			1,620.8