



Department of Transportation

Office of Project Development

700 E Broadway Avenue

Pierre, South Dakota 57501-2586 605/773-3268

FAX: 605/773-6608

September 18, 2014

ADDENDUM NO. 1

RE: Item #4, October 1, 2014 Letting - P 0019(36)73, PCN 026D, Lake, Minnehaha County - Cold Milling Asphalt Concrete, Asphalt Concrete Surfacing & Resurfacing

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

BID ITEM FILE: *Bidders must log in to retrieve the addendum bid item file that must be loaded into the SDEBS to incorporate the revisions listed here.*

Bid Items were added:

Bid Item 330E1000 "Blotting Sand for Prime"

Quantities for Bid Items were changed:

Bid Item Bid Item 320E4000 "Hydrated Lime" changed from 757.5 to 747.5 Ton

Bid Item Bid Item 330E0010 "MC-70 Asphalt for Prime" changed from 9.4 to 564.8 Ton

PLANS: Please destroy sheets A1, F2, F5, F6, and F7 and replace with the enclosed sheets, dated 9/11/14.

Sheets A1 & F2: Quantities for Bid Item Bid Item 320E4000 "Hydrated Lime" changed from 757.5 to 747.5 Ton

Quantities for Bid Item Bid Item 330E0010 "MC-70 Asphalt for Prime" changed from 9.4 to 564.8 Ton

Bid Item 330E1000 "Blotting Sand for Prime" was added.

Sheets F5 & F6: RATES OF MATERIALS was revised.

Sheet F7: TABLE OF ADDITIONAL QUANTITIES was revised.

Sincerely,

Sam Weisgram
Engineering Supervisor

SW/cj

CC: Craig Smith, Mitchell Region Engineer
Travis Dressen, Sioux Falls Area Engineer

ESTIMATE OF QUANTITIES AND ENVIRONMENTAL COMMITMENTS

STATE OF SOUTH DAKOTA	PROJECT	SHEET NO.	TOTAL SHEETS
	P 0019(36)73	A1	A2

Revised: 11 Sept 14, LLR

SPECIFICATIONS

Standard Specifications for Roads & Bridges, 2004 Edition and Required Provisions, Supplemental Specifications, and Special Provisions as included in the Proposal.

Section C – Traffic Control

Bid Item Number	Item	Quantity	Unit
110E7152	Remove Delineator for Reset	557	Each
632E2100	Reset Delineator	557	Each
634E0010	Flagging	800	Hour
634E0020	Pilot Car	400	Hour
634E0100	Traffic Control	3,736	Unit
634E0120	Traffic Control, Miscellaneous	Lump Sum	LS
634E0630	Temporary Pavement Marking	66.3	Mile

Section F – Surfacing

Bid Item Number	Item	Quantity	Unit
009E0010	Mobilization	Lump Sum	LS
120E0100	Unclassified Excavation, Digouts	927	CuYd
120E6200	Water for Granular Material	975.9	MGal
210E1005	Surface Preparation	9.697	Mile
250E0010	Incidental Work	Lump Sum	LS
260E1050	Base Course, Salvaged Asphalt Mix	9,081.8	Ton
260E1080	Base Course, Salvaged, State Furnished	17,163.2	Ton
260E3010	Gravel Surfacing	3,719.5	Ton
320E0005	PG 58-34 Asphalt Binder	3,409.2	Ton
320E1202	Class Q2R Hot Mixed Asphalt Concrete	73,791.1	Ton
320E1800	Asphalt Concrete Blade Laid	1,623.0	Ton
320E4000	Hydrated Lime	747.5	Ton
320E7012	Grind 12" Rumble Strip or Stripe in Asphalt Concrete	45.5	Mile
330E0010	MC-70 Asphalt for Prime	564.8	Ton
330E0100	SS-1h or CSS-1h Asphalt for Tack	104.2	Ton
330E0210	SS-1h or CSS-1h Asphalt for Flush Seal	86.6	Ton
330E1000	Blotting Sand for Prime	811.5	Ton
330E2000	Sand for Flush Seal	1,278.1	Ton
332E0010	Cold Milling Asphalt Concrete	193,627	SqYd
462E0100	Class M6 Concrete	2.2	CuYd
600E0300	Type III Field Laboratory	1	Each
651E7000	Type 1 Detectable Warnings	22	SqFt
900E1980	Storage Unit	1	Each

Section M – Pavement Marking

Bid Item Number	Item	Quantity	Unit
633E0040	Cold Applied Plastic Pavement Marking, Arrow	6	Each
633E1300	Pavement Marking Paint, White	810.0	Gal
633E1305	Pavement Marking Paint, Yellow	324.0	Gal
633E5025	Grooving for Cold Applied Plastic Pavement Marking, Arrow	6	Each

INDEX OF SHEETS

A1	Estimate of Quantities for Sections C, F and M
A2	Environmental Commitments

SECTION F – ESTIMATE OF QUANTITIES

Bid Item Number	Item	Quantity	Unit
009E0010	Mobilization	Lump Sum	LS
120E0100	Unclassified Excavation, Digouts	927	CuYd
120E6200	Water for Granular Material	975.9	MGal
210E1005	Surface Preparation	9.697	Mile
250E0010	Incidental Work	Lump Sum	LS
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651E7000	Type 1 Detectable Warnings	22	SqFt
900E1980	Storage Unit	1	Each

SURFACING THICKNESS DIMENSIONS

Plans tonnage will be applied though the thickness may vary from that shown on the plans.

At those locations where material must be placed to achieve a required elevation, plans tonnage may be varied to achieve the required elevation.

TYPE III FIELD LABORATORY

The lab shall be equipped with an internet connection such as DSL, cable modem, or other approved service. The internet connection shall be provided with a multi-port wireless router. The internet connection shall be a minimum speed of 512 Kb unless limited by job location and approved by the DOT. Prior to installing the wireless router the Contractor shall 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.

The Contractor shall submit a copy of each monthly bill for calls charged to this phone at the end of each month. The Project Engineer will then audit the bills to ensure all calls are legitimate and then initiate a Construction Change Order (CCO) to reimburse the Contractor for the actual phone calls made, including local and long distance calls. Reimbursement will not be made for fees associated with the purchase, installation, disconnection, monthly line charges, and incidentals involved in the installation, maintenance, and disconnection of the phone (including attachments). These items shall be incidental to the contract unit price per each for "Type III Field Laboratory".

SAWING IN EXISTING SURFACING

Where new Portland Cement Concrete Pavement (PCCP) or new asphalt concrete is placed adjacent to existing asphalt concrete or PCCP, the existing pavement shall be sawed full depth to a true line with a vertical face. No separate payment shall be made for sawing.

TYPE 1 DETECTABLE WARNINGS

Detectable warnings shall be in compliance with the Americans with Disability Act regulations.

The detectable warnings shall be installed according to the manufacturer's installation instructions.

A concrete thickness equal to the adjacent concrete sidewalk thickness and 2 inches of granular cushion material shall be placed below the Type 1 Detectable Warnings. When concrete is placed below the detectable warnings then the concrete thickness shall be transitioned at the rate of 1" per foot to match the adjacent concrete sidewalk thickness.

The detectable warnings shall be a brick red color for application in concrete curb ramps. Cast iron plates may be a natural patina (weathered steel).

When Type 1 Detectable Warnings are specified, the Contractor shall furnish and install only one of the products listed in the Type 1 Detectable Warnings table.

Type 1 Detectable Warnings

Product	Manufacturer
Detectable Warning Plate Cast Iron Plate	Neenah Foundry Company Neenah, WI 800-558-5075 http://www.neenahfoundry.com/
Detectable Warning Plate Cast Iron Plate	Deeter Foundry Lincoln, NE 800-234-7466 http://www.deeter.com/
Detectable Warning Plate Cast Iron Plate	East Jordan Iron Works, Inc. 301 Spring Street East Jordan, MI 49727 800-626-4653 http://www.ejiw.com
CAST-DWD Cast Iron Plate	Key 3 Casting (Northern Foundry) 555 West 25 th Street Hibbing, MN 55746 218-263-8871 http://key3casting.com

TABLE OF TYPE 1 DETECTABLE WARNINGS

Station	L/R	Dimensions (L X W)	Quantity (SqFt)
1156+07.98	33.21' R	(10.7' X 2')	21.5

STATE OF SOUTH DAKOTA	PROJECT	SHEET NO.	TOTAL SHEETS
	P 0019(36)73	F2	F17

Revised: 11 Sept 14, LLR

TABLE OF CLASS M6 CONCRETE FOR LANDING AREAS

Station	L/R	Quantity (CuYd)
1156+07.98	33.21' R	2.2

BASE COURSE, SALVAGED ASPHALT MIX

The Base Course, Salvaged Asphalt Mix shall be obtained from the material produced on this project and may be used without further quality testing.

Base Course, Salvaged Asphalt Mix placed on the shoulders shall be compacted according to Section 260.3.B of the Pavement Specifications except that a pneumatic tired roller with an effective roller weight of at least 250 pounds per inch (4.5 kilograms per mm) of roller width will be required.

At the time of compaction, the material placed on the shoulders shall have approximately 4% moisture uniformly blended throughout the depth of material; the Engineer may adjust the percent moisture.

All other requirements for Base Course, Salvaged shall apply.

BASE COURSE, SALVAGED, STATE FURNISHED

Base Course, Salvaged, State Furnished estimated at 30,380 tons in Stockpile A and 14,175 tons in Stockpile B (44,555 tons total for informational purposes only) is available from the stockpiles located in the northeast corner of the Madison DOT shop site in the SE1/4 of Section 16, Township 106 North, Range 52 West of the 5th P.M, Lake County, South Dakota. This material may be used without further quality testing. The salvaged asphalt material in Stockpile A has been stockpiled since the summer of 2013 and shall be crushed so that the maximum particle size will not exceed 1-1/2 inches (37.5 mm) before the material can be used on the project. All costs for crushing the salvaged asphalt material shall be incidental to the contract unit price per ton for Base Course, Salvaged, State Furnished.

Base Course, Salvaged, State Furnished placed on the shoulders shall be compacted according to Section 260.3.B of the Specifications except that a pneumatic tired roller with an effective roller weight of at least 250 pounds per inch (4.5 kilograms per mm) of roller width will be required.

At the time of compaction, the material placed on the shoulders shall have approximately 4% moisture uniformly blended throughout the depth of material. The percent moisture may be adjusted by the Engineer.

The Base Course, Salvaged, State Furnished material is royalty free to the Contractor.

Furnish cost to the State for the Base Course, Salvaged, State Furnished material located in Stockpile A was \$10.00 per ton.

Furnish cost to the State for the Base Course, Salvaged, State Furnished material located in Stockpile B was \$7.00 per ton.

All other requirements for Base Course, Salvaged shall apply.

RATES OF MATERIALS

The Estimate of Surfacing Quantities is based on the following quantities of materials per mile.

SD 19 Mainline

Sta. 1+70 to 519+19
Sta. 523+45 to 725+00

CLASS Q2R Hot Mixed ASPHALT CONCRETE

Crushed Aggregate		1442.8 Tons
Salvaged Asphalt Concrete		360.7 Tons
PG 58-34 Asphalt Binder		<u>85.0 Tons</u>
	Total Mix	1888.5 Tons
Hydrated Lime		<u>18.9 Tons</u>
	Total:	1907.4 Tons

The exact proportions of this material will be determined on construction.

SS-1h or CSS-1h Asphalt for Tack at the rate of 3.9 tons applied 31 feet wide (Rate = 0.05 gallon per square yard).

SS-1h or CSS-1h Asphalt for Flush Seal at the rate of 3.5 tons applied 28 feet wide (Rate = 0.05 gallon per square yard).

Sand for Flush Seal at the rate of 51.6 tons applied 22 feet wide (Rate = 8.0 lbs. per square yard).

SD 19 Mainline

Sta. 725+00 to 1098+50
Sta. 1114+00 to 1195+90
Sta. 1212+00 to 1237+00

MC-70 Asphalt for Prime at the Rate of 30.6 tons applied 44 feet wide (Rate = 0.30 gallon per square yard).

Blotting Sand for Prime at the rate of 82.1 tons applied 28 feet wide (Rate = 10 lbs. per square yard).

CLASS Q2R Hot Mixed ASPHALT CONCRETE – 1st Lift

Crushed Aggregate		1803.5 Tons
Salvaged Asphalt Concrete		450.9 Tons
PG 58-34 Asphalt Binder		<u>106.2 Tons</u>
	Total Mix	2360.6 Tons
Hydrated Lime		<u>23.6 Tons</u>
	Total:	2384.2 Tons

The exact proportions of this material will be determined on construction.

CLASS Q2R Hot Mixed ASPHALT CONCRETE – 2nd Lift

Crushed Aggregate		1442.8 Tons
Salvaged Asphalt Concrete		360.7 Tons
PG 58-34 Asphalt Binder		<u>85.0 Tons</u>
	Total Mix	1888.5 Tons
Hydrated Lime		<u>18.9 Tons</u>
	Total:	1907.4 Tons

The exact proportions of this material will be determined on construction.

SS-1h or CSS-1h Asphalt for Tack at the rate of 3.9 tons applied 31 feet wide (Rate = 0.05 gallon per square yard).

SS-1h or CSS-1h Asphalt for Flush Seal at the rate of 3.5 tons applied 28 feet wide (Rate = 0.05 gallon per square yard).

Sand for Flush Seal at the rate of 51.6 tons applied 22 feet wide (Rate = 8.0 lbs. per square yard).

SD 19 Shoulders (one side only)

Sta. 1+70 to 187+00
Sta. 254+50 to 331+00
Sta. 393+50 to 518+00
Sta. 540+00 to 725+00

BASE COURSE, SALVAGED, STATE FURNISHED or BASE COURSE, SALVAGED ASPHALT MIX

Crushed Aggregate or Salvaged Material 339.6 tons.

Water for Granular Material at the rate of 4.1 M. Gallons.

MC-70 Asphalt for Prime at the Rate of 5.6 tons applied 8 feet wide (Rate = 0.30 gallon per square yard). Prime shall be applied to the top side of the finished shoulder.

SD 19 Shoulders (one side only)

Sta. 187+00 to 254+50
Sta. 331+00 to 393+50
Sta. 518+00 to 519+19
Sta. 523+45 to 540+00

BASE COURSE, SALVAGED, STATE FURNISHED or BASE COURSE, SALVAGED ASPHALT MIX

Crushed Aggregate 385.0 tons.

Water for Granular Material at the rate of 4.6 M. Gallons.

MC-70 Asphalt for Prime at the Rate of 5.6 tons applied 8 feet wide (Rate = 0.30 gallon per square yard). Prime shall be applied to the top side of the finished shoulder.

SD 19 Shoulders (one side only)

Sta. 725+00 to 1237+00

BASE COURSE, SALVAGED, STATE FURNISHED or BASE COURSE, SALVAGED ASPHALT MIX

Crushed Aggregate 766.2 tons.

Water for Granular Material at the rate of 9.2 M. Gallons.

MC-70 Asphalt for Prime at the Rate of 5.6 tons applied 8 feet wide (Rate = 0.30 gallon per square yard). Prime shall be applied to the top side of the finished shoulder.

RATES OF MATERIALS

STATE OF SOUTH DAKOTA	PROJECT	SHEET NO.	TOTAL SHEETS
	P 0019(36)73	F6	F17

Revised: 11 Sept 14, LLR

The Estimate of Surfacing Quantities is based on the following quantities of materials per **Station**.

SD 19 Mainline

Sta. 1102+74 to 1109+80
Sta. 1200+10 to 1207+80

MC-70 Asphalt for Prime at the Rate of 0.74 ton applied 56 feet wide (Rate = 0.30 gallon per square yard).

Blotting Sand for Prime at the rate of 2.22 tons applied 40 feet wide (Rate = 10 lbs. per square yard).

CLASS Q2R Hot Mixed ASPHALT CONCRETE – 1st Lift

Crushed Aggregate		48.29 Tons
Salvaged Asphalt Concrete		12.07 Tons
PG 58-34 Asphalt Binder		<u>2.84 Tons</u>
	Total Mix	63.20 Tons
Hydrated Lime		<u>0.63 Tons</u>
Total:		63.83 Tons

The exact proportions of this material will be determined on construction.

CLASS Q2R Hot Mixed ASPHALT CONCRETE – 2nd Lift

Crushed Aggregate		33.92 Tons
Salvaged Asphalt Concrete		8.48 Tons
PG 58-34 Asphalt Binder		<u>2.00 Tons</u>
	Total Mix	44.40 Tons
Hydrated Lime		<u>0.44 Tons</u>
Total:		44.84 Tons

The exact proportions of this material will be determined on construction.

SS-1h or CSS-1h Asphalt for Tack at the rate of 0.10 tons applied 43 feet wide (Rate = 0.05 gallon per square yard).

SS-1h or CSS-1h Asphalt for Flush Seal at the rate of 0.09 tons applied 40 feet wide (Rate = 0.05 gallon per square yard).

Sand for Flush Seal at the rate of 1.47 tons applied 33 feet wide (Rate = 8.0 lbs. per square yard).

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SUMMARY OF CLASS Q2R HOT MIXED ASPHALT CONCRETE COMPACTION

Location	With Specified Compaction (1 st / 2 nd Lift)	Without Specified Compaction
	Ton	Ton
SD 19		
Sta. 1+70 to 519+19	18,694.3	--
Sta. 519+19 to 523+45	183.1	--
Sta. 523+45 to 725+00	7,280.9	--
Sta. 725+00 to 1098+50	16,865.6 / 13,492.8	--
Sta. 1098+50 to 1114+00	910.5 / 684.4	--
Sta. 1114+00 to 1195+90	3,698.1 / 2,958.6	--
Sta. 1195+90 to 1212+00	949.0 / 711.2	--
Sta. 1212+00 to 1237+00	1,128.9 / 903.2	--
Recreation Trail		
Sta. 100+12 to 146+25	--	991.2
Spot leveling, strengthening, repair	-	1,082.0
Miscellaneous areas		3,257.3
TOTALS	68,460.6	5,330.5

TABLE OF ADDITIONAL QUANTITIES

Location-Description	Water for Granular Material	Gravel Surfacing	Base Course, Salvaged Asphalt Mix or Base Course, Salvaged, State Furnished	Class Q2R Hot Mixed Asphalt Concrete	PG 58-34 Asphalt Binder	Hydrated Lime	MC-70 Asphalt for Prime	Blotting Sand for Prime	SS-1h or CSS-1h Asphalt for Tack	SS-1h or CSS-1h Asphalt for Flush Seal	Sand for Flush Seal
	MGal	Ton	Ton	1 st / 2 nd Lift Ton	1 st / 2 nd Lift Ton	1 st / 2 nd Lift Ton	Mainline / Shoulders Ton	Mainline Ton	Ton	Ton	Ton
SD 19 Transitions											
Sta. 1098+50 to 1102+74			123.0	231.1 / 184.9	10.3 / 8.2	2.3 / 1.8	2.8 / 0.8	7.9	0.4	0.3	5.2
Sta. 1109+80 to 1114+00			121.8	228.8 / 183.0	10.2 / 8.2	2.3 / 1.8	2.8 / 0.8	7.9	0.4	0.3	5.1
Sta. 1195+90 to 1200+10			121.8	228.8 / 183.0	10.2 / 8.2	2.3 / 1.8	2.8 / 0.8	7.9	0.4	0.3	5.1
Sta. 1207+80 to 1212+00			121.8	228.8 / 183.0	10.2 / 8.2	2.3 / 1.8	2.8 / 0.8	7.9	0.4	0.3	5.1
Sta. 519+19 to 523+45	0.3		27.4	183.1	8.2	1.8	-- / 0.5		0.4	0.3	4.2
Crossroad 46 @ 46+24 L	1.8	157.5									
Crossroad 46 @ 46+19 R	0.8	74.2									
Field Entrances – 148	32.0	2,460.0		1,169.9	50.6	11.7			1.0	0.9	18.8
Intersecting Roads - 42	9.2	920.0		1,461.1	65.2	14.7	2.7		1.9	1.9	34.9
Mailbox Turnouts - 43				626.3	27.9	6.2			0.7	0.7	
Historical Marker Turnouts – 2	1.3	107.8									
Recreation Trail											
Sta. 100+00 to 146+25				991.2	44.1	9.8					
Totals	45.4	3,719.5	515.8	6,083.0	269.7	60.6	17.6	31.6	5.6	5.0	78.4