



# North Dakota Department of Transportation

Thomas K. Sorel  
*Director*

Doug Burgum  
*Governor*

November 9, 2017

## ADDENDUM 1 – JOB 48

TO: All prospective bidders on project IM-8-094(090)351 and NHU-8-081(039)924, Job No. 48 scheduled for the November 17, 2017 bid opening.

The following plan and request for proposal revisions shall be made:

Plan Revisions:

**See attached summary from Adam M. Ruud, Houston Engineering, Inc. dated October 24, 2017 for an explanation.**

Request for Proposal Revisions:

**Add Special Provision SP 580(14) COMMERCIAL GRADE HOT MIX ASPHALT.**

This addendum is to be incorporated into the bidder's proposal for this project. AASHTOWare Project Bids files should be updated by downloading the addendum file from the Bid Express on-line bidding exchange at <http://www.bidx.com/> and load it into the AASHTOWare Project Bids program.

A handwritten signature in black ink, appearing to read "Phillip Murdoff".

PHILLIP MURDOFF – CONSTRUCTION SERVICES ENGINEER

80:jwj

Enclosure

October 24, 2017

To: **All prospective bidders on Project IM-8-094(090)351, PCN 21169, NHU-8-081(039)924, PCN 21400, scheduled for the November 17, 2017 bid opening.**

The following plan revisions shall be made:

**Remove and replace all sheets listed below, with the enclosed sheets revised on 10/24/17.**

Section 2 Sheet 1	Add SP 580(14)
Section 8 Sheet 1	Revised 430-0500 "Commercial Grade Hot Mix Asphalt" from 473 Ton to 417 Ton under IM-8-094(090)351 Revised 430-0500 "Commercial Grade Hot Mix Asphalt" from 468 Ton to 524 Ton under NHU-8-081(039)924.
Section 10 Sheet 1	Revise pavement summary table to include pavement thicknesses

This addendum is to be incorporated into the bidder's proposal for this project.

Sincerely,

HOUSTON ENGINEERING, INC.



Adam M. Ruud

AMR:sh

Enclosure

H:\Fargo\JBN\3900\3950\16\_3950\_210 I94 and University Drive\Deliverables\Plans\Final Plans 10-24-17\Addendum Memo.docx

**NORTH DAKOTA DEPARTMENT OF TRANSPORTATION**

**SPECIAL PROVISION**

**COMMERCIAL GRADE HOT MIX ASPHALT**

**PROJECT 8-094(090)351 – PCN 21169 &  
8-081(039)924 – PCN 21400**

**DESCRIPTION**

This work consists of supplying a Commercial Grade Hot Mix Asphalt that meets the requirements of Section 430, "Hot Mix Asphalt (HMA)", with the following revisions.

**MATERIALS**

Add the following to the end of Section 430.03 "Materials".

**F. Commercial Grade Hot Mix Asphalt.**

Provide commercial grade asphalt that meets the requirements of any of the FAA designations in Section 430.03 C, "Superpave Mix Properties".

The requirements of the following sections will not be applied to commercial grade asphalt:

- Section 430.04 B, "Engineer's Quality Assurance Plan";
- Section 430.04 C.2, "Determination of Specific Gravity"; and
- Section 430.04 E, "QC Testing".

Section 430.04 D "Mix Design" is replaced with the following requirements:

Submit a mix design that was previously approved under another Department contract. Include the project number and PCN of the previous project.

If using a stationary plant, use a mix design previously approved by the Department within the last year. Include the date that the mix design was approved.

If a previously approved mix design is not available, submit a new mix design to the Engineer at least 10 calendar days before placement of material. The Engineer will request materials to use in mix design verification before approving the mix design.

**CONSTRUCTION REQUIREMENTS**

**A. Contractor Personnel.**

Replace Section 430.04 A "Contractor Quality Control (QC) with the following:

Provide personnel meeting the requirements of NDDOT Technical Certification Program for the following tests:

- ND T 2 – Sampling of Aggregates; and
- NDDOT 5 Sampling and Splitting Field Verification of Hot Mix Asphalt (HMA) Samples.

**B. Engineer's Acceptance Testing:**

Replace Section 430.04 M "Acceptance" with the following:

The Engineer will perform acceptance tests at the frequency shown in Table 1. At times directed by the Engineer, obtain aggregate samples from the cold feed belt according to ND T 1.

<b>Table 1</b>	
<b>Testing Frequencies</b>	
<b>Test/Assessment</b>	<b>Minimum Testing Requirements</b>
ND T 11 Materials Finer than No. 200 Sieve	1 per project.
ND T 27 Sieve Analysis of Fine and Coarse Aggregate	1 per project
ND T 304 Fine Aggregate Angularity	1 per project

**METHOD OF MEASUREMENT AND BASIS OF PAYMENT**

<b>Pay Item</b>	<b>Pay Unit</b>
Commercial Grade Asphalt	Ton

Include the cost of aggregate, asphalt cement, prime coat, and tack coat in the contract unit price for "Commercial Grade Asphalt."

Such payment is full compensation for furnishing all materials, equipment, labor, and incidentals to complete the work as specified.

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Revised	10/24/2017	STATE	PROJECT NO.	SECTION NO.	SHEET NO.
		ND	IM-8-094(090)351	2	1

NHU-8-081(039)924

## PLAN SECTIONS

Section	Page(s)	Description
1	1	Title Sheet
2	1 - 2	Table of Contents
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51	1 - 3	Allowable Pipe List
55	1 - 9	Drainage Layouts
60	1 - 22	Plan & Profile
75	1 - 5	Wetland Impacts
76	1 - 12	Temporary Erosion Control
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81	1 - 5	Survey Coordinate and Curve Data
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90	1 - 23	Paving Layouts
100	1 - 145	Work Zone Traffic Control
110	1 - 21	Signing
115	1 - 9	Sign Structures
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140	1 - 6	Lighting
150	1 - 30	Signals
160	1 - 2	ITS
170	1 - 9	Bridges and Box Culverts
200	1 - 38	Cross Sections

## SPECIAL PROVISIONS

Number	Description
SP 003(14)	Temporary Erosion and Sediment Best Management Practices
SP 497(14)	Lift Station and Pumping Equipment
SP 502(14)	Incentive/Disincentive
SP 540(14)	Traffic Signal System
SP 541(14)	Conditions of Contract Award
SP 580(14)	Commercial Grade Asphalt

STATE	PROJECT NO.	SECTION NO.	SHEET NO.
ND	IM-8-094(090)351 NHU-8-081(039)924	8	1

SPEC	CODE	ITEM DESCRIPTION	UNIT	NHU-8-081(039)924		TOTAL
				IM-8-094(090)351	ELIGIBLE NONELIGIBLE	
103	0100	CONTRACT BOND	L SUM	0.5	0.5	1
201	0330	CLEARING & GRUBBING	L SUM	0.5	0.5	1
202	0114	REMOVAL OF CONCRETE PAVEMENT	SY	207	1,332	1,539
202	0130	REMOVAL OF CURB & GUTTER	LF	998	6,171	7,169
202	0136	REMOVAL OF PAVEMENT	TON	4,552	19,416	23,968
202	0174	REMOVAL OF PIPE ALL TYPES AND SIZES	LF	155	1,927	2,082
202	0210	REMOVAL OF MANHOLES	EA		6	6
202	0235	REMOVAL OF CATCH BASINS	EA	3	10	13
202	0290	REMOVAL OF SLOPE PROTECTION	SY		597	597
202	0293	REMOVE RETAINING WALL	LF		62	62
202	0312	REMOVE EXISTING FENCE	LF		270	270
203	0101	COMMON EXCAVATION-TYPE A	CY	2,048	951	2,999
203	0109	TOPSOIL	CY	1,912	1,291	3,203
203	0113	COMMON EXCAVATION-WASTE	CY	2,705		2,705
210	0050	BOX CULVERT EXCAVATION	EA	1		1
210	0210	FOUNDATION FILL	CY	1,415		1,415
210	0405	FOUNDATION PREPARATION-BOX CULVERT	EA	1		1
216	0100	WATER	M GAL	101	233	334
251	0300	SEEDING CLASS III	ACRE	2.38	1.60	3.98
251	2000	TEMPORARY COVER CROP	ACRE	2.38	1.60	3.98
253	0201	HYDRAULIC MULCH	ACRE	2.38	1.60	3.98
253	0301	BONDED FIBER MATRIX	ACRE	2.38	1.60	3.98
258	0100	CONCRETE SLOPE PROTECTION	SY		210	210
261	0112	FIBER ROLLS 12IN	LF	5,980	2,480	8,460
261	0113	REMOVE FIBER ROLLS 12IN	LF	2,990	1,240	4,230
302	0100	SALVAGED BASE COURSE	TON	4,078	11,015	15,093
430	0500	COMMERCIAL GRADE HOT MIX ASPHALT	TON	417	524	941
550	0315	11IN NON-REINF CONCRETE PVMT CL AE-DOWELED	SY	3,205	11,581	14,786
602	1131	CLASS AE-3 CONCRETE-BOX CULVERT	CY	114.3		114.3
612	0114	REINFORCING STEEL-GRADE 60-BOX CULVERT	LBS	21,129		21,129
624	0123	PEDESTRIAN RAILING	LF		270	270
702	0100	MOBILIZATION	L SUM	1	1	1
704	0100	FLAGGING	MHR	400	400	800
704	1000	TRAFFIC CONTROL SIGNS	UNIT		4,487	4,487
704	1037	ATTENUATION DEVICE-TYPE B-35	EA	1	2	3
704	1052	TYPE III BARRICADE	EA		36	36
704	1060	DELINEATOR DRUMS	EA		162	162
704	1067	TUBULAR MARKERS	EA		198	198
704	1070	DELINEATOR	EA		40	40
704	1072	FLEXIBLE DELINEATORS	EA		88	88
704	1080	STACKABLE VERTICAL PANELS	EA		30	30
704	1087	SEQUENCING ARROW PANEL-TYPE C	EA		2	2
704	1500	OBLITERATION OF PVMT MK	SF		1,364	1,364
704	3510	PRECAST CONCRETE MED BARRIER-STATE FURNISHED	EA	20		20
704	4011	PORTABLE CHANGEABLE MESSAGE SIGN	EA	2	2	4
706	0500	AGGREGATE LABORATORY	EA	0.5	0.5	1
706	0600	CONTRACTOR'S LABORATORY	EA	0.5	0.5	1

## BASIS OF ESTIMATE

STATE	PROJECT NO.	SECTION NO.	SHEET NO.
ND	IM-8-094(090)351 NHU-8-081(039)924	10	1

Material	Unit	Temporary Pavement						Permanent Pavement	Subtotal	Subtotal
		Phase 1A	Phase 1B	Phase 2	Phase 4A	Phase 4B	Phase 6A	Phase 4B		
Salvaged Base Course @ 1.875 Ton/CY (12IN Depth)	Ton	IM-8-094(090)351	IM-8-094(090)351	NHU-8-081(039)924	IM-8-094(090)351	NHU-8-081(039)924	NHU-8-081(039)924	NHU-8-081(039)924	NHU-8-081(039)924	IM-8-094(090)351
Commercial Grade Hot Mix Asphalt @ 2 Ton/CY (4IN Depth)	SY									
		74	104	933	1,254	139	283		1,355	1,432
		26	37	332	354	72	81	39	524	417

Phase	202-0114		202-0136						302-0100			
	Removal of Concrete Pavement		Removal of Pavement						Salvaged Base Course			
	Pay Item		Pay Item						Pay Item			
	Removal of Concrete		Removal of Aggregate		Removal of Asphalt		Removal of Concrete		Removal Total			
	(SY)	(Ton)	(CY)	(Ton)	(CY)	(Ton)	(CY)	(Ton)	(CY)	(Ton)	(CY)	(Ton)
	A	A	B	B	C	C	D	D	E = A+B+C+D	F	F	F
Phase 1A			66	124			8	15	74	139	39	74
Phase 1B			106	199			14	28	120	227	55	104
Phase 2			871	1,633			111	223	982	1,856	497	933
Phase 3A	51	32	1,545	2,897	4	8	1,160	2,321	2,761	5,258	1,806	3,386
Phase 3B			314	589			243	486	557	1,075	357	670
Phase 3C			524	982	13	26	359	719	896	1,727	479	897
Phase 3D			56	105	13	25	40	79	108	209	70	131
Phase 4A			320	601	6	11	226	453	552	1,065	318	1,850
Phase 4B	464	290	1,304	2,445	45	91	1,014	2,027	2,827	4,853	1,285	2,630
Phase 4C	683	427	574	1,076	50	101	428	856	1,735	2,460	798	1,496
Phase 4D	207	129	278	522	40	79	168	336	693	1,066	131	245
Phase 5			690	1,294	88	176	523	1,046	1,301	2,516	684	1,283
Phase 6A			15	28					15	28	151	283
Phase 6B	134	84	689	1,292			435	870	1,258	2,246	537	1,007
Phase 6C									0	0	15	28
Phase 6D			98	183			11	22	108	205	41	78
<b>Total</b>		<b>962</b>		<b>13,970</b>		<b>517</b>		<b>9,481</b>		<b>24,930</b>		<b>15,093</b>

**Notes:**

1. This is not a balance sheet, calculate own balance of materials.
2. It is assumed 95% of removed materials may be reclaimed after the crushing process.

**Removal of Pavement**

Concrete Pavements @ 2.0 Ton/CY  
 Bituminous Pavements @ 2.0 Ton/CY  
 Aggregate Base @ 1.875 Ton/CY

**Retaining Wall**

62 LF x 1.5 Ft high = 93 SF

**Water**

25 MGal/Mile for Dust Palliative  
 15 Gal/SY for Blended Base  
 20 Gal/Ton for Aggregates  
 10 Gal/CY for Embankment

This document was originally issued and sealed by Adam M. Ruud, Registration Number PE- 10407, on 10/24/17 and the original document is stored at the North Dakota Department of Transportation