

December 1, 2023

ADDENDUM 3 – JOB 23636

TO: All prospective bidders on Projects IM-6-029(164)163, Job No. 23636 scheduled for the December 8, 2023 bid opening.

The following revision(s) shall be made:

Plan Revisions:

See attached summary from Jason Thorenson, P.E. dated December 1, 2023 for an explanation.

Request for Proposal Revisions:

- Remove and replace pages 5 thru 8 of 10 of the Proposal pages located at the beginning of the Request for Proposal with pages revised December 1, 2023.
- Bid Item Changes are summarized in the Plan Addendum Summary and Approval.

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.

Jeff Jirava

PHILLIP MURDOFF, P.E. – CONSTRUCTION SERVICES ENGINEER

80: jwj Enclosure

for



PLAN ADDENDUM SUMMARY AND APPROVAL

PROJECT INFORMATION							
Project:	IM-6-029(164)163			PCN:	23636		
Location:	Various Structures – Grand Forks District						
Date:	12/01/2023	Lead Designer:	Jacob Gathman				
Bid Opening	g Date: 12/8/2023	JOB#: 23636	Addendum#:	3			

	PLAN SHEET CHANGES						
Section	Sheet	Description					
2	1	Added SP for Commercial Grade HMA.					
6	1	Added Note 704-P03 for ramp detour of ML traffic and Note 430-P03 for patching ramps. Also added a line to Note 704-P01 for added sheet 100-12A.					
8	1-2	Updated quantity sheets to changes listed below.					
100	1	Added quantities from new sheet 100-12A for ramp detour of ML traffic.					
100	12A	Added sheet showing traffic control for ramp detour of ML traffic.					
170	3,12	Modified roadway canopy notes.					

	CHANGES MADE TO BID ITEMS FOR JOB							
Spec	Code	Description	Unit	Previous Quantity	Revised Quantity			
430	500	Commercial Grade Hot Mix Asphalt	Ton	0	200			
704	1000	Traffic Control Signs	Unit	3,908	4848			
704	1052	Type III Barricade	Ea	14	26			
704	1060	Delineator Drums	Ea	140	220			
704	1095	Type B Flasher	Ea	0	6			
704	1500	Obliteration of Pavement Marking	SF	400	1,260			
762	0420	Short Term 4In Line-Type R	LF	16,800	17,660			
762	0426	Short Term 24In Line-Type R	LF	24	72			

APPROVAL

Jason Thorenson	12/1/23
Jason Thorenson, P.E. – Bridge Engineer	Date

Should the revisions described above be processed as a plan addendum?

016 401 0050 TACK COAT

North Dakota Department of Transportation

Project: IM-6-029(164)163 (PCN-23636)

BID OPENING: December 08, 2023

Job 23636

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	BID	ITEMS
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tem	em Spec Code		Code		Approx.	Unit Price)	Amount	
10.	No.		Description	Unit	Quantity	\$\$\$\$\$	000	\$\$\$\$\$	00
001	103	0100	CONTRACT BOND	L SUM	1.				
02	202	0111	REMOVAL OF CONCRETE	L SUM	1.				
03	202	0132	REMOVAL OF BITUMINOUS SURFACING	sy	497.				
004	202	0169	REMOVAL OF END SECTION-ALL TYPES & SIZES	EA	6.				
005	202	0174	REMOVAL OF PIPE ALL TYPES AND SIZES	LF	539.				
006	203	0113	COMMON EXCAVATION-WASTE	СҮ	78.				
007	210	0102	CLASS 1 EXCAVATION-SITE 1	L SUM	1.				
800	210	0103	CLASS 1 EXCAVATION-SITE 2	L SUM	1.				
009	251	0200	SEEDING CLASS II	ACRE	.370				
)10	251	2000	TEMPORARY COVER CROP	ACRE	.370				
)11	253	0101	STRAW MULCH	ACRE	.740				
)12	255	0102	ECB TYPE 2	SY	124.				
)13	261	0112	FIBER ROLLS 12IN	LF	1,174.				
14	302	0050	TRAFFIC SERVICE AGGREGATE	TON	240.				
15	302	0120	AGGREGATE BASE COURSE CL 5	TON	280.				

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North Dakota Department of Transportation

BID OPENING: December 08, 2023

Job 23636

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Project: IM-6-029(164)163 (PCN-23636)

Bidder must type or neatly print unit prices in numerals, make extensions for each ite	m, and
total. Do not carry unit prices further than three (3) decimal places.	

	total. Do not carry unit prices further than three (3) decimal places.								
	Spec	Code			Approx.	Unit Price		Amount	
No.	No.	No.	Description	Unit	Quantity	\$\$\$\$\$	000	\$\$\$\$\$	00
017	401	0070	FOG SEAL	GAL	1,234.500				
018	411	0100	MILLING PAVEMENT SURFACE	TON	2,682.				
019	430	0043	SUPERPAVE FAA 43	TON	2,894.				
020	430	0500	COMMERCIAL GRADE HOT MIX ASPHALT	TON	200.				
021	430	1000	CORED SAMPLE	EA	35.				
022	430	5815	PG 58S-34 ASPHALT CEMENT	TON	173.500				
023	602	0130	CLASS AAE-3 CONCRETE	CY	542.400				
024	602	1250	PENETRATING WATER REPELLENT TREATMENT	SY	1,700.				
025	612	0115	REINFORCING STEEL-GRADE 60	LBS	1,776.				
026	612	0116	REINFORCING STEEL-GRADE 60-EPOXY COATED	LBS	140,024.				
027	702	0100	MOBILIZATION	L SUM	1.				
028	704	0100	FLAGGING	MHR	100.				
029	704	1000	TRAFFIC CONTROL SIGNS	UNIT	4,848.				
030	704	1018	LANE CLOSURE-SIGNAL CONTROL/FLAGGING CONTROL	EA	1.				
031	704	1041	ATTENUATION DEVICE-TYPE B-55	EA	2.				
032	704	1045	ATTENUATION DEVICE-TYPE B-75	EA	2.				

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Project: IM-6-029(164)163 (PCN-23636)

Bidder must type or neatly print unit prices in numerals, make extensions for each item, and total. Do not carry unit prices further than three (3) decimal places.

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	Spec	Code			Approx.	Unit Price		Amount	
No.	No.	No.	Description	Unit	Quantity	\$\$\$\$\$	000	\$\$\$\$\$	00
033	704	1052	TYPE III BARRICADE	EA	26.				
034	704	1060	DELINEATOR DRUMS	EA	220.				
035	704	1067	TUBULAR MARKERS	EA	119.				
036	704	1087	SEQUENCING ARROW PANEL-TYPE C	EA	2.				
037	704	1095	TYPE B FLASHERS	EA	6.				
038	704	1500	OBLITERATION OF PAVEMENT MARKING	SF	1,260.				
039	704	3511	STATE FURNISHED MEDIAN BARRIER	LF	1,160.				
040	706	0550	BITUMINOUS LABORATORY	EA	1.				
041	706	0600	CONTRACTOR'S LABORATORY	EA	1.				
042	709	0100	GEOSYNTHETIC MATERIAL TYPE G	SY	530.				
043	714	1310	PIPE CONC REINF 60IN CL III	LF	320.				
044	714	3055	END SECT-CONC REINF 60IN	EA	4.				
045	748	0141	CURB & GUTTER-TYPE 1 SPECIAL	LF	120.				
046	754	0110	FLAT SHEET FOR SIGNS-TYPE XI REFL SHEETING	SF	21.				
047	754	0112	FLAT SHEET FOR SIGNS-TYPE IV REFL SHEETING	SF	17.				
048	754	0168	DELINEATORS-TYPE D	EA	2.				

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		BID ITEMS

Project: IM-6-029(164)163 (PCN-23636)

Bidder must type or neatly print unit prices in numerals, make extensions for each item, and total. Do not carry unit prices further than three (3) decimal places.

	Code No.							
			Unit Price		Amount			
		Description	Unit	Approx. Quantity	\$\$\$\$\$ 000		\$\$\$\$\$	00
754	0206	STEEL GALV POSTS-TELESCOPING PERFORATED TUBE	LF	46.				
762	0420	SHORT TERM 4IN LINE-TYPE R	LF	17,660.				
762	0426	SHORT TERM 24IN LINE-TYPE R	LF	72.				
762	0430	SHORT TERM 4IN LINE-TYPE NR	LF	23,660.				
762	0436	SHORT TERM 24IN LINE-TYPE NR	LF	390.				
762	1104	PVMT MK PAINTED 4IN LINE	LF	32,212.				
762	1124	PVMT MK PAINTED 24IN LINE	LF	195.				
764	0131	W-BEAM GUARDRAIL	LF	466.				
764	0145	W-BEAM GUARDRAIL END TERMINAL	EA	8.				
764	0151	REMOVE W-BEAM GUARDRAIL & POSTS	LF	691.				
764	2081	REMOVE END TREATMENT & TRANSITION	EA	8.				
930	3000	BRIDGE BENCH MARKS	SET	2.				
930	7012	ROADWAY CANOPY	LSUM	1.				
930	8686	AGGREGATE SLOPE PROTECTION	SY	792.				
930	9223	CRACK SEALING	LF	6.				
		TOTAL SUM BID						
	762 762 762 764 764 764 930	762 0436 762 0436 762 1104 762 1124 764 0131 764 0151 764 2081 930 3000 930 7012	762 0426 SHORT TERM 24IN LINE-TYPE R 762 0430 SHORT TERM 4IN LINE-TYPE NR 762 0436 SHORT TERM 24IN LINE-TYPE NR 762 1104 PVMT MK PAINTED 4IN LINE 762 1124 PVMT MK PAINTED 24IN LINE 764 0131 W-BEAM GUARDRAIL 764 0145 W-BEAM GUARDRAIL END TERMINAL 764 0151 REMOVE W-BEAM GUARDRAIL & POSTS 764 2081 REMOVE END TREATMENT & TRANSITION 930 3000 BRIDGE BENCH MARKS 930 7012 ROADWAY CANOPY 930 8686 AGGREGATE SLOPE PROTECTION 930 9223 CRACK SEALING	762 0426 SHORT TERM 24IN LINE-TYPE R LF 762 0430 SHORT TERM 4IN LINE-TYPE NR LF 762 0436 SHORT TERM 24IN LINE-TYPE NR LF 762 1104 PVMT MK PAINTED 4IN LINE LF 762 1124 PVMT MK PAINTED 24IN LINE LF 764 0131 W-BEAM GUARDRAIL LF 764 0145 W-BEAM GUARDRAIL END TERMINAL EA 764 0151 REMOVE W-BEAM GUARDRAIL & POSTS LF 764 2081 REMOVE END TREATMENT & TRANSITION EA 930 3000 BRIDGE BENCH MARKS SET 930 7012 ROADWAY CANOPY L SUM 930 9223 CRACK SEALING LF	762 0426 SHORT TERM 24IN LINE-TYPE R LF 72. 762 0430 SHORT TERM 4IN LINE-TYPE NR LF 23,660. 762 0436 SHORT TERM 24IN LINE-TYPE NR LF 390. 762 1104 PVMT MK PAINTED 4IN LINE LF 32,212. 762 1124 PVMT MK PAINTED 24IN LINE LF 195. 764 0131 W-BEAM GUARDRAIL LF 466. 764 0145 W-BEAM GUARDRAIL END TERMINAL EA 8. 764 0151 REMOVE W-BEAM GUARDRAIL & POSTS LF 691. 764 2081 REMOVE END TREATMENT & TRANSITION EA 8. 930 3000 BRIDGE BENCH MARKS SET 2. 930 7012 ROADWAY CANOPY L SUM 1. 930 9223 CRACK SEALING LF 6.	762 0426 SHORT TERM 24IN LINE-TYPE R LF 72. 762 0430 SHORT TERM 4IN LINE-TYPE NR LF 23,660. 762 0436 SHORT TERM 24IN LINE-TYPE NR LF 390. 762 1104 PVMT MK PAINTED 4IN LINE LF 32,212. 762 1124 PVMT MK PAINTED 24IN LINE LF 195. 764 0131 W-BEAM GUARDRAIL LF 466. 764 0145 W-BEAM GUARDRAIL END TERMINAL EA 8. 764 0151 REMOVE W-BEAM GUARDRAIL & POSTS LF 691. 764 2081 REMOVE END TREATMENT & TRANSITION EA 8. 330 3000 BRIDGE BENCH MARKS SET 2. 330 7012 ROADWAY CANOPY L SUM 1. 330 9223 CRACK SEALING LF 6.	762 0426 SHORT TERM 24IN LINE-TYPE R LF 72. 762 0430 SHORT TERM 4IN LINE-TYPE NR LF 23,660. 762 0436 SHORT TERM 24IN LINE-TYPE NR LF 390. 762 1104 PVMT MK PAINTED 4IN LINE LF 32,212. 762 1124 PVMT MK PAINTED 24IN LINE LF 195. 764 0131 W-BEAM GUARDRAIL LF 466. 764 0145 W-BEAM GUARDRAIL END TERMINAL EA 8. 764 0151 REMOVE W-BEAM GUARDRAIL & POSTS LF 691. 764 2081 REMOVE END TREATMENT & TRANSITION EA 8. 930 3000 BRIDGE BENCH MARKS SET 2. 930 7012 ROADWAY CANOPY L SUM 1. 930 9223 CRACK SEALING LF 6.	162 0426 SHORT TERM 24IN LINE-TYPE R

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		ND	IM-6-029(164)163	2	1

		PLAN SECTIONS		LIST OF STANDARD DRAWINGS
Section	Page(s)	Description	Number	Description
1	1	Title Sheet	D-101-1, 2, 3, 4	NDDOT Abbreviations
2	1	Table of Contents	D-101-10	NDDOT Utility Company and Organization Abbreviations
4	1	Scope of Work	D-101-20, 21	Line Styles
6	1 - 2	Notes	D-101-30, 31, 32, 33	Symbols
6	3	Environmental Notes	D-704-1	Attenuation Device
8	1 - 2	Quantities	D-704-2	Traffic Control For Coring Of Hot Bituminous Pavement
10	1	Basis of Estimate	D-704-7	Breakaway Systems For Construction Zone Signs - Perforated Tube
20	1 - 2	General Details	D-704-8	Breakaway Systems For Construction Zone Signs - U-Channel Post
30	1	Typical Sections	D-704-9	Construction Sign Details - Terminal And Guide Signs
40	1	Removals	D-704-10	Construction Sign Details - Regulatory Signs
50	1	Hydraulic Data	D-704-11, 11A	Construction Sign Details - Warning Signs
51	1	Allowable Pipe List	D-704-13	Barricade And Channelizing Device Details
60	1	Plan & Profile	D-704-14	Construction Sign Punching And Mounting Details
75	1 - 2	Wetland Impacts	D-704-16	Lane Closure On A Two Lane Road Using Traffic Control Signals
76	1	Temporary Erosion Control	D-704-17	Sign Layout For One Lane Closure Two Lane Roadway
77	1	Permanent Erosion Control	D-704-18	Sign Layout For Interstate System One Lane Closure
81	1	Survey Coordinate and Curve Data	D-704-22	Construction Truck And Temporary Detour Layouts
100	1 - 17	Work Zone Traffic Control	D-704-27	Mobile Operation (Pavement Marking)
110	1 - 3	Signing	D-704-35	Sign Layout For One Lane Closure - Interstate System
130	1 - 4	Guardrail	D-704-50	Portable Sign Support Assembly
170	1 - 18	Bridges and Box Culverts	D-704-51	Portable Precast Concrete Median Barrier (Temporary Usage)
200	1	Cross Sections	D-706-1	Bituminous Laboratory
			D-714-1	Reinforced Concrete Pipe Culverts And End Sections (Round Pipe)
			D-714-25M	Transverse Mainline Pipe Installation Detail - Multiple Pipes More Than 4 Feet Below Top of Subgrade
			D-748-1	Curb & Gutter And Valley Gutter
			D-754-22A	Typical Interchange Delineation
			D-754-23	Perforated Tube Assembly Details
			D-754-24, 25	Mounting Details Perforated Tube
			D-754-24A	Breakaway Coupler System For Perforated Tubes
			D-754-28, 32	Sign Punching, Stringer and Support Location Details Regulatory, Warning and Guide Signs
			D-754-55	Sign Punching, Stringer and Support Location Details - Route Marker Signs
			D-762-2	Interstate Pavement Marking 4 Lane Divided Highway
		SPECIAL PROVISIONS	D-762-4	Pavement Marking
Number	Descrip	tion	D-762-11	Short-Term Pavement Marking
SSP 2		Migratory Bird Treaty Act	D-764-20	Short Term End Treatment For Bridges (Attenuation Device Method)
SP 100(23	,	tural Surface Finish	D-764-21	Short Term End Treatment For Bridges (Guardrail Method)
PSP 54(23	,	and Environmental Considerations	D-764-38	MGS Flared Energy Absorbing Terminal - Wood Post
SP 350(23	B) Comerci	ial Grade Asphalt	D-764-40	MGS W-Beam Guardrail General Details
			D-764-48	Typical Grading at Bridge Ends with MGS W-Beam Guardrail
			D-764-50	MASH SoftStop End Terminal - Steel Post
			D-764-51	MASH Sequential Kinking Terminal - Wood Post
			D-764-60	MGS W-Beam Transition with Approach Curb to Concrete Single Slope or Jersey Barrier
			D-764-61	Single Slope to Thrie Beam Connector Plate Details
			D-900-1	Bridge Bench Marks

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			Revised 11/30/23	STATE	PROJECT NO.		SECTION NO.	SHEET NO.
	<u>NOTES</u>			ND	IM-6-029(164))163	6	1
108-P01	WORK RESTRICTIONS: Complete all work on the pipe replacement during the crossroad closure for work on Bridge 29-167.722.	704-450	LANE CLOSURE - SIGNAL CONTROL/signal controlled lane closure on Starlane closure on Standard D-704-17.					d
202-P01	REMOVAL OF BITUMINIOUS SURFACING: Include all costs to remove the existing bituminous surfacing and base in the price bid for "Removal of Bituminous Surfacing."		Obtain an electrical source for traffic used. Place generators a minimum of the generator and signal are part of a	f 60 fee	et from the roadwa			less
203-P01	EXCAVATION: Include all costs for excavation required to maintain traffic during pipe replacement and embankment to restore the roadway profile in the price bid for "PIPE CONC REINF 60IN CL III."		Place utility poles and equipment a modern centerline and place power conductor surface. Remove poles after they are	rs a mi	nimum of 6 inches			nd
216-P01	WATER: Include all costs for water in the price bid for "AGGREGATE BASE COURSE CL 5."		The Engineer will measure individual system and flaggers, shown on the strespective contract unit price.				_	gnal
430-P01	FAA SUPERPAVE 43: Include all cost to place prime coat and blotter material CL 44 in the contract unit price for "FAA SUPERPAVE 43".		Include the cost of either a traffic sig price for "Lane Closure – Signal Cont			1 the contra	act un	ıit
430-P02	PAVEMENT PATCHING AT ABUTMENTS: Place the aggregate base and 5½" HMA at the abutments (detailed on the Patching, Milling, and Paving at Bridge Ends	704-511	OBLITERATION OF PAVEMENT MARKS for obliteration as specified in Section		•	_	esigna	ted
	sheet) prior to milling and overlaying the crossroad at each interchange.	704-P01	TRAFFIC CONTROL: Traffic control que closures on I-29 mainline and one lar 1. Standard D-704-18 – used for inte	ne clos erstate	ure on the crossro lane closure;	oad.		
430-P03	PAVEMENT PATCHING ON RAMPS: A quantity of 200 tons of Commercial Grade Hot Mix Asphalt has been provided for patching ramps before using ramp detours at locations determined by the Engineer.		2. Standard D-704-35 – used for ram 3. Sheet 100-2 and 100-3 – used for 4. Sheets 100-4 through 100-12 – used 5. Sheet 100-12A – used for ramp de	pipe insed	nstallation; crossroad detours		sure;	
704-200	STATE FURNISHED MEDIAN BARRIER: Obtain (93) 22.5" x 12.5' concrete barriers. They can be picked up and returned to the Grand Forks District yard at 1951 N Washington in Grand Forks ND 58201. Contact the Grand Forks District office at 701-787-6500 to facilitate the exchanges.	704-P02	BRIDGE DETOUR RESTRICTIONS: Co detour traffic control on the first brid bridge.	•	_			
	Section 704.04 J "Precast Concrete Median Barrier (State Furnished)" applies to the contract item "State Furnished Median Barrier".	704-P03	barrier removal, and canopy placeme restricted to 10 calendar days for the	ent and e mainli	l removal over a m ine roadway	_		
	Payment for the State Furnished Median Barrier will follow Section 704.06 D "Precast Concrete Median Barrier (State Furnished)". Include all costs		closure in that direction of travel at e	ach str	ructure.	NJ.	RO	
	associated with median barriers in the contract unit price for "State Furnished Median Barrier".		Liquidated damages for failure to me of this note will be in accordance with			PROFESS PE 29	ER SIONAL	200
			Work will be stopped if the detour rancalendar days without written approved Engineer.			ZORTH [JEER X	4

12/01/23

ESTIMATE OF QUANTITIES

STATE	PROJECT NO.	SECTION NO.	SHEET NO.
ND	IM-6-029(164)163	8	1

REVISED 12/01/2023

		REVISED 12/01/2023
SPEC CODE ITEM DESCRIPTION	UNIT MAINLINE	TOTAL
103 0100 CONTRACT BOND	L SUM 1	1
202 0111 REMOVAL OF CONCRETE	L SUM 1	1
202 0132 REMOVAL OF BITUMINOUS SURFACING	SY 497	497
202 0169 REMOVAL OF END SECTION-ALL TYPES & SIZES	EA 6	6
202 0174 REMOVAL OF PIPE ALL TYPES AND SIZES	LF 539	539
203 0113 COMMON EXCAVATION-WASTE	CY 78	78
210 0102 CLASS 1 EXCAVATION-SITE 1	L SUM 1	1
210 0103 CLASS 1 EXCAVATION-SITE 2	L SUM 1	1
251 0200 SEEDING CLASS II	ACRE 0.37	0.37
251 2000 TEMPORARY COVER CROP	ACRE 0.37	0.37
253 0101 STRAW MULCH	ACRE 0.74	0.74
255 0102 ECB TYPE 2	SY 124	124
261 0112 FIBER ROLLS 12IN	LF 1,174	1,174
302 0050 TRAFFIC SERVICE AGGREGATE	TON 240	240
302 0120 AGGREGATE BASE COURSE CL 5	TON 280	280
401 0050 TACK COAT	GAL 1,294.2	1,294.2
401 0070 FOG SEAL	GAL 1,234.5	1,234.5
411 0100 MILLING PAVEMENT SURFACE	TON 2,682	2,682
430 0043 SUPERPAVE FAA 43	TON 2,894	2,894
430 0500 COMMERCIAL GRADE HOT MIX ASPHALT	TON 200	200
430 1000 CORED SAMPLE	EA 35	35
430 5815 PG 58S-34 ASPHALT CEMENT	TON 173.5	173.5
602 0130 CLASS AAE-3 CONCRETE	CY 542.4	542.4
602 1250 PENETRATING WATER REPELLENT TREATMENT	SY 1,700	1,700
612 0115 REINFORCING STEEL-GRADE 60	LBS 1,776	1,776
612 0116 REINFORCING STEEL-GRADE 60-EPOXY COATED	LBS 140,024	140,024
702 0100 MOBILIZATION	L SUM 1	1
704 0100 FLAGGING	MHR 100	100
704 1000 TRAFFIC CONTROL SIGNS	UNIT 4,848	4,848
704 1018 LANE CLOSURE-SIGNAL CONTROL/FLAGGING CONTROL	EA 1	1
704 1041 ATTENUATION DEVICE-TYPE B-55	EA 2	2
704 1045 ATTENUATION DEVICE-TYPE B-75	EA 2	2
704 1052 TYPE III BARRICADE	EA 26	26

ESTIMATE OF QUANTITIES

STATE	PROJECT NO.	SECTION NO.	SHEET NO.
ND	IM-6-029(164)163	8	2

REVISED 12/01/2023

SPEC	CODE ITEM DESCRIPTION	UNIT	MAINLINE	TOTAL
704	1060 DELINEATOR DRUMS	EA	220	220
704	1067 TUBULAR MARKERS	EA	119	119
704	1087 SEQUENCING ARROW PANEL-TYPE C	EA	2	2
704	1095 TYPE B FLASHERS	EA	6	6
704	1500 OBLITERATION OF PAVEMENT MARKING	SF	1,260	1,260
704	3511 STATE FURNISHED MEDIAN BARRIER	LF	1,160	1,160
706	0550 BITUMINOUS LABORATORY	EA	1	1
706	0600 CONTRACTOR'S LABORATORY	EA	1	1
709	0100 GEOSYNTHETIC MATERIAL TYPE G	SY	530	530
714	1310 PIPE CONC REINF 60IN CL III	LF	320	320
714	3055 END SECT-CONC REINF 60IN	EA	4	4
748	0141 CURB & GUTTER-TYPE 1 SPECIAL	LF	120	120
754	0110 FLAT SHEET FOR SIGNS-TYPE XI REFL SHEETING	SF	21	21
754	0112 FLAT SHEET FOR SIGNS-TYPE IV REFL SHEETING	SF	17	17
754	0168 DELINEATORS-TYPE D	EA	2	2
754	0206 STEEL GALV POSTS-TELESCOPING PERFORATED TUBE	LF	46	46
762	0420 SHORT TERM 4IN LINE-TYPE R	LF	17,660	17,660
762	0426 SHORT TERM 24IN LINE-TYPE R	LF	72	72
762	0430 SHORT TERM 4IN LINE-TYPE NR	LF	23,660	23,660
762	0436 SHORT TERM 24IN LINE-TYPE NR	LF	390	390
762	1104 PVMT MK PAINTED 4IN LINE	LF	32,212	32,212
762	1124 PVMT MK PAINTED 24IN LINE	LF	195	195
764	0131 W-BEAM GUARDRAIL	LF	466	466
764	0145 W-BEAM GUARDRAIL END TERMINAL	EA	8	8
764	0151 REMOVE W-BEAM GUARDRAIL & POSTS	LF	691	691
764	2081 REMOVE END TREATMENT & TRANSITION	EA	8	8
930	3000 BRIDGE BENCH MARKS	SET	2	2
930	7012 ROADWAY CANOPY	L SUM	1	1
930	8686 AGGREGATE SLOPE PROTECTION	SY	792	792
930	9223 CRACK SEALING	LF	6	6

Revised 11/30/2023

SHEET PROJECT NO. STATE NO. NO. ND IM-6-029(164)163 100 1

SIGN NUMBER	SIGN SIZE	DESCRIPTION	AMOUNT REQUIRED	UNITS PER AMOUNT	UNITS SUB TOTAL
5-1-48	48"x48"	EXIT GORE		35	
320-1-60 320-1b-60	60"x24"	ROAD WORK NEXTMILES NO WORK IN PROGRESS (Sign and installation only)		28 18	
G20-10-00	48"x24"	END ROAD WORK	7	26	18
G20-4-36	36"x18"	PILOT CAR FOLLOW ME (Mounted to back of pilot car)		18	
G20-4b-36	36"x30"	WAIT FOR PILOT CAR		18	
G20-50a-72 G20-52a-72	72"x36" 72"x24"	ROAD WORK NEXT MILES RT & LT ARROWS ROAD WORK NEXT MILES RT or LT ARROW		43 36	
G20-52a-72	96"x48"	SPEED LIMIT ENFORCED - MINIMUM FEE \$80 WHEN WORKERS PRESENT	7	59	41
M1-1-24	24"x24"	INTERSTATE ROUTE MARKER (Post and installation only)	8	10	8
M1-1-36	36"x36"	INTERSTATE ROUTE MARKER (Post and installation only)	15	11	16
M1-4-24 M1-5-24	24"x24" 24"x24"	U.S. ROUTE MARKER (Post and installation only) STATE ROUTE MARKER (Post and installation only)		10 10	
M3-1-24	24"x12"	NORTH (Mounted on route marker post)	4	7	2
M3-1-36	36"x18"	NORTH (Mounted on route marker post)	3	10	3
M3-2-24	24"x12"	EAST (Mounted on route marker post)		7	
M3-3-24 M3-3-36	24"x12" 36"x18"	SOUTH (Mounted on route marker post)	5	7 10	3
M3-4-24	24"x12"	SOUTH (Mounted on route marker post) WEST (Mounted on route marker post)	3	7	
M4-8-24	24"x12"	DETOUR (Mounted on route marker post)	8	7	5
M4-8-30	30"x15"	DETOUR (Mounted on route marker post)	6	4	2
M4-9-30	30"x24"	DETOUR ARROW RIGHT or LEFT/AHD AND RT or LT	4	15	
M4-10-48 M5-1-21	48"x18" 21"x15"	DETOUR (INSIDE ARROW) RIGHT or LEFT (Mounted on barricade) ADVANCE TURN ARROW RT or LT(Mounted on route marker post)	2	7	1
M5-1-21	30"x21"	ADVANCE TURN ARROW RT or LT(Mounted on route marker post)		9	
M5-2(I)-30	30"x21"	DIRECTIONAL ARROW UP AND DIAGONAL RT or LT (Mtd on rte mrkr post)	2	9	1
M6-1-21	21"x15"	DIRECTIONAL ARROW RT or LT (Mounted on route marker post)	6	7	4
M6-1-30 M6-2(I)-30	30"x21" 30"x21"	DIRECTIONAL ARROW RT or LT (Mounted on route marker post) DIRECTIONAL ARROW DIAGONAL RT or LT (Mounted on route marker post)	3	9	2
M6-3-21	21"x15"	DIRECTIONAL ARROW DIAGONAL RT or LT (Mounted on route marker post)	3	7	2
M6-3(I)-30	30"x21"	DIRECTIONAL ARROW UP (Mounted on route marker post)	4	9	3
R1-1-48	48"x48"	STOP	4	32	12
R1-2-60	60"x60"	YIELD		29	
R2-1-36 R2-1-48	36"x48" 48"x60"	SPEED LIMIT (Portable only) SPEED LIMIT (Portable only)	18	30 39	70
R2-1aP-24	24"x18"	MINIMUM FEE \$80 (Mounted on Speed Limit post)	13	10	13
R3-2-48	48"x48"	NO LEFT TURN	1	35	3
R4-1-48	48"x60"	DO NOT PASS		39	
R4-7-48 R5-1-48	48"x60" 48"x48"	KEEP RIGHT		39 35	
R6-1-54	54"x18"	DO NOT ENTER ONE WAY RIGHT or LEFT (Mounted on STOP or DO NOT ENTER post)		14	
R7-1-12	12"x18"	NO PARKING ANY TIME		11	
R10-6-24	24"x36"	STOP HERE ON RED	3	16	4
R11-2-48	48"x30"	ROAD CLOSED (Mounted on barricade)	6	12	7
R11-2a-48 R11-3a-60	48"x30" 60"x30"	STREET CLOSED (Mounted on barricade) ROAD CLOSED MILES AHEAD LOCAL TRAFFIC ONLY (Mtd on barricade)	2	12 15	2
R11-3c-60	60"x30"	STREET CLOSED MILES AHEAD LOCAL TRAFFIC ONLY (Mtd on barricade)		15	
R11-4a-60	60"x30"	STREET CLOSED TO THRU TRAFFIC (Mounted on barricade)		15	
W1-3-48	48"x48"	REVERSE TURN RIGHT or LEFT		35	
W1-4-48 W1-4b-48	48"x48" 48"x48"	REVERSE CURVE RIGHT or LEFT TWO LANE REVERSE CURVE RIGHT or LEFT	1	35 35	3
W1-6-48	48"x24"	ONE DIRECTION LARGE ARROW		26	
W3-1-48	48"x48"	STOP AHEAD	2	35	7
W3-3-48	48"x48"	SIGNAL AHEAD	3	35	10
W3-4-48 W3-5-48	48"x48" 48"x48"	BE PREPARED TO STOP SPEED REDUCTION AHEAD	9	35 35	31
W4-2-48	48"x48"	LANE ENDS RIGHT or LEFT	6	35	21
W5-1-48	48"x48"	ROAD NARROWS	1	35	3
W5-8-48	48"x48"	THRU TRAFFIC RIGHT LANE		35	
W5-9-48	48"x48"	ROAD WORK TRAFFIC ONLY DOWN & LT or RT ARROW		35	
W6-3-48 W8-1-48	48"x48" 48"x48"	TWO WAY TRAFFIC BUMP		35 35	
W8-3-48	48"x48"	PAVEMENT ENDS		35	
W8-7-48	48"x48"	LOOSE GRAVEL		35	
W8-11-48	48"x48"	UNEVEN LANES		35	
W8-12-48 W8-17-48	48"x48" 48"x48"	NO CENTER LINE SHOULDER DROP-OFF SYMBOL		35 35	
W8-17-48 W8-53-48	48 x48 48"x48"	TRUCKS ENTERING HIGHWAY		35	
W8-54-48	48"x48"	TRUCKS ENTERING AHEAD or FT or _ MILE		35	
W8-55-48	48"x48"	TRUCKS CROSSING AHEAD or FT or _ MILE		35	
W8-56-48	48"x48"	TRUCKS EXITING HIGHWAY		35	
W9-3a-48 W13-1P-30	48"x48" 30"x30"	CENTER LANE CLOSED SYMBOL MPH ADVISORY SPEED PLAQUE (Mounted on warning sign post)		35 14	
W13-1P-30 W14-3-64	64"x48"	NO PASSING ZONE		28	
W16-2P-30	30"x24"	FEET PLAQUE (Mounted on warning sign post)		10	
W20-1-48	48"x48"	ROAD WORK AHEAD or _FT or _ MILE	9	35	3′
W20-2-48	48"x48"	DETOUR AHEAD or FT or _ MILE	4	35	14
W20-3-48 W20-4-48	48"x48" 48"x48"	ROAD or STREET CLOSED AHEAD or FT or _ MILE ONE LANE ROAD AHEAD or FT or _ MILE	3	35 35	10
W20-4-48 W20-5-48	48"x48"	RIGHT OF CENTER OF LEFT LANE CLOSED AHEAD OFFT OF _ MILE	6	35	21
W20-7-48	48"x48"	FLAGGER	2	35	7
W20-8-18	18"x18"	STOP - SLOW PADDLE Back to Back	2	5	

SIGN NUMBER	SIGN SIZE	DESCRIPTION	AMOUNT REQUIRED	UNITS PER AMOUNT	UNITS SUB TOTAL
W20-52P-54	54"x12"	NEXT MILES (Mounted on warning sign post)		12	
W21-1-48	48"x48"	WORKERS		35	
W21-2-48	48"x48"	FRESH OIL		35	
W21-3-48	48"x48"	ROAD MACHINERY AHEAD or FT or MILE		35	
W21-5-48	48"x48"	SHOULDER WORK		35	
W21-5a-48	48"x48"	RIGHT or LEFT SHOULDER CLOSED		35	-
W21-5b-48	48"x48"	RIGHT or LEFT SHOULDER CLOSED AHEAD or FT or MILE		35	
W21-6-48	48"x48"	SURVEY CREW		35	
W21-50-48	48"x48"	BRIDGE PAINTING AHEAD or FT		35	
W21-51-48	48"x48"	MATERIAL ON ROADWAY		35	-
W21-52-48	48"x48"	PAVEMENT BREAKS		35	
W21-53-48	48"x48"	RUMBLE STRIPS AHEAD		35	
W22-8-48	48"x48"	FRESH OIL LOOSE ROCK		35	
W24-1-48	48"x48"	DOUBLE REVERSE CURVE		35	
SPECIAL SIG Consign1 Consign2 Consign3 Consign4	11'x6' 12'-6"x6' 11'x6'	DETOUR I-29 NORTHBOUND CLOSED USE EXIT 164 DETOUR EXIT 168 EASTBOUND CLOSED USE EXIT 164 DETOUR I-29 SOUTHBOUND CLOSED USE EXIT 172 DETOUR EXIT 168 WESTBOUND CLOSED USE EXIT 172	1 1 1 1	92 102 92 102	92 102 92 102
Consign5	11'x6'	DETOUR I-29 NORTHBOUND CLOSED USE EXIT 161	1	92	92
20.1019110		DEFORM TO HOLD TO BE AND THE TOTAL TO THE TOTAL TO THE TOTAL TO THE TOTAL TOTA	+ :	122	- 32

SPEC & CODE

Consign6 12'-6"x6' DETOUR EXIT 164 EASTBOUND CLOSED USE EXIT 161

Consign7 11'x6' DETOUR I-29 SOUTHBOUND CLOSED USE EXIT 168 Consign8 12'-6"x6' DETOUR EXIT 164 WESTBOUND CLOSED USE EXIT 168

704-1000 TRAFFIC CONTROL SIGNS TOTAL UNITS

SPEC & UNIT QUANTITY DESCRIPTION CODE 704-0100 FLAGGING 704-1018 LANE CLOSURE-SIGNAL CONTROL/FLAGGING CONTROL EACH 704-1041 ATTENUATION DEVICE-TYPE B-55 EACH 704-1045 ATTENUATION DEVICE-TYPE B-75 EACH 704-1048 PORTABLE RUMBLE STRIPS 704-1050 TYPE I BARRICADES 704-1052 TYPE III BARRICADES EACH FACH EACH 704-1060 DELINEATOR DRUMS EACH 220 704-1065 TRAFFIC CONES 704-1067 TUBULAR MARKERS EACH EACH 119 704-1070 DELINEATOR FACH 704-1072 FLEXIBLE DELINEATORS EACH 704-1080 STACKABLE VERTICAL PANELS EACH 704-1081 VERTICAL PANELS - BACK TO BACK EACH 704-1085 SEQUENCING ARROW PANEL - TYPE A EACH 704-1086 SEQUENCING ARROW PANEL - TYPE B EACH 704-1087 SEQUENCING ARROW PANEL - TYPE C EACH 704-1095 TYPE B FLASHER EACH 704-1500 OBLITERATION OF PVMT MK 1260 704-3501 PORTABLE PRECAST CONCRETE MED BARRIER 704-3510 PRECAST CONCRETE MED BARRIER - STATE FURNISHED EACH 704-3511 STATE FURNISHED MEDIAN BARRIER LF 762-0200 RAISED PAVEMENT MARKERS EACH 17660 762-0420 SHORT TERM 4IN LINE - TYPE R LF 762-0426 SHORT TERM 24IN LINE-TYPE R LF 762-0430 SHORT TERM 4IN LINE - TYPE NR 762-0436 SHORT TERM 24IN LINE-TYPE NR 23660 390

NOTE: If additional signs are required, units will be calculated using the formula from Section III-18.06 of the Design Manual.

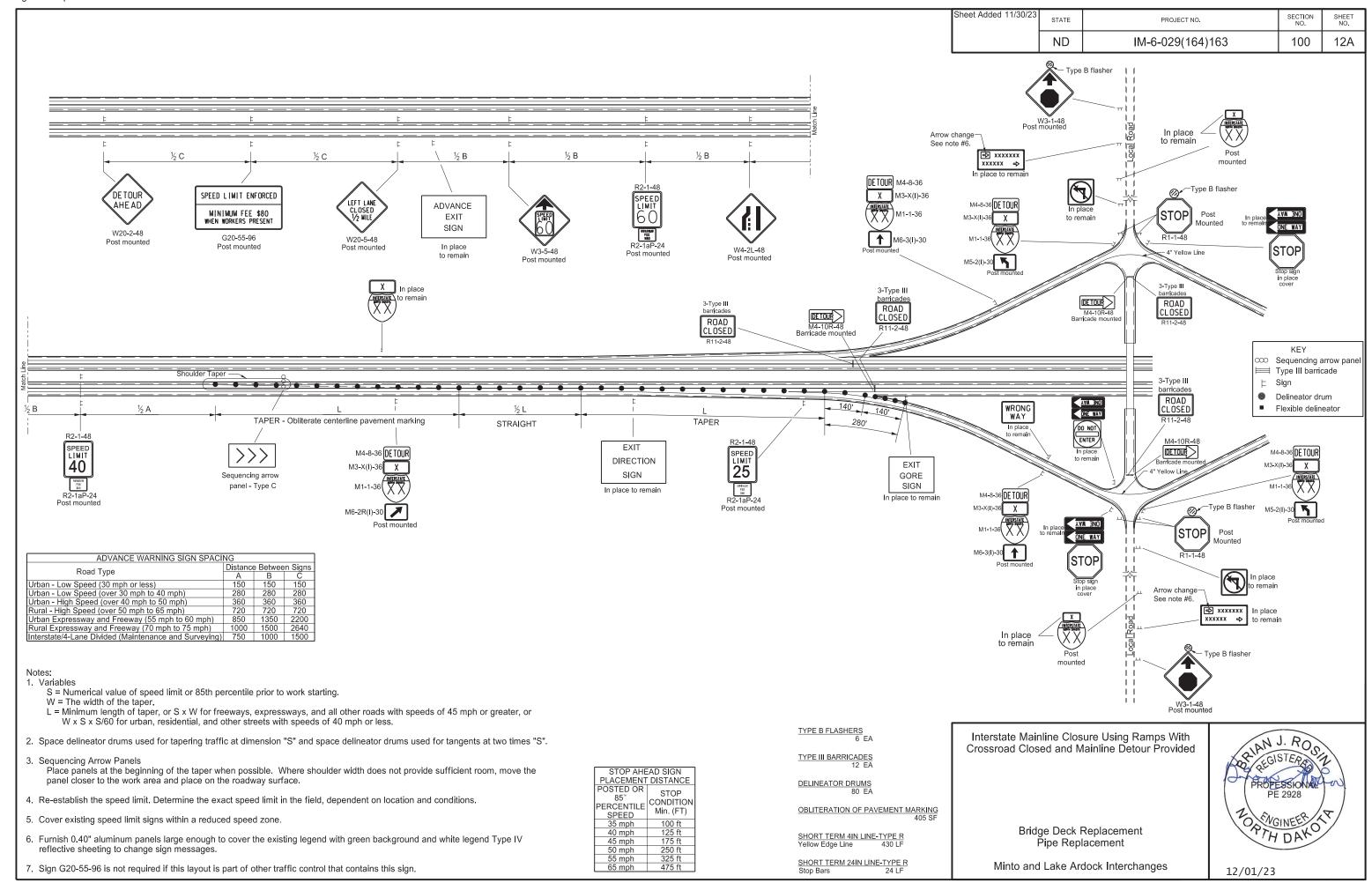
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Traffic Control Devices List



900 ELEVATION CHECK POINTS: Place six bolts on the top of the barriers, in accordance with Std D-900-1, to serve as elevation check points. Include the cost for this item in the unit price bid for Class AAE-3 concrete.

930 ROADWAY CANOPY: A roadway canopy is required to be constructed above the traveled roadway prior to conducting any construction activities over traffic. The canopy is an added safeguard and does not relieve the Contractor from any responsibility for the safety of the public.

Submit the canopy details, including materials that will be used, to the Engineer for review. The canopy will provide a minimum vertical clearance of 15'-6" above the traveled roadway. The canopy will be extended a minimum distance of 5'-0" beyond the outside edge of deck of the structure and a minimum distance of 5'-0" beyond the edge of the driving lanes beneath the structure.

The canopy will remain in place until the new deck is complete. The canopy may be supported from the ground or suspended from the beams. Complete the installation of the canopy in a minimum amount of time and with the least inconvenience to the public.

Once the bridge barrier is completed, remove the canopy. A quantity of 0.5 L SUM will be paid at this location. Payment for "Roadway Canopy" includes the construction, maintenance, and removal of canopy system.

930 AGGREGATE SLOPE PROTECTION: Remove the existing concrete slope protection and place foundation fill and aggregate slope protection on the embankment slopes as shown. Place the foundation fill in accordance with Section 210.04 B.3.

Clear the subgrade of rubbish and vegetation before placing the aggregate slope protection. Thoroughly compact all loose material. Excavate or backfill as required to obtain the plan cross-section or lines and grades established in the field.

The gradation of the material used to form the slope protection is given in the following chart;

Sieve Size	% Passing
2"	100%
3/4"	5-35%
#4	0-5%

23 U.S.C. § 407 Documents NDDOT Reserves All Objections

	REVISED 12-	1-2023	STATE	PROJECT NO.	SECTION NO.	SHEET NO.
s			ND	IM-6-029(164)163	170	3

The minimum fractured face requirement of the aggregate is 50% by weight on the portion of the aggregate retained on the No. 4 sieve. To be considered fractured, the rock must have at least one fractured face.

Deposit, spread, consolidate, and shape the aggregate by mechanical or hand methods to provide a uniform depth and density and produce a uniform surface appearance. Apply MC-250 that meets the requirements of Section 818.02 C, "Medium-Curing Cutback Asphalt" at an approximate rate of 1.8 gallons per square yard. The bituminous materials are to penetrate to a depth of not less than one-half the required thickness of the aggregate. Protect adjacent structure surfaces against bituminous splatter.

Include all costs for labor, materials, and equipment to complete this work, including the removals of the existing concrete slope protection and the foundation fill, in the unit price bid for "Aggregate Slope Protection."

930 CRACK SEALING: After the penetrating water repellent has been applied and is dry, the Engineer will perform a visual inspection of the concrete pier cap to determine the need for crack sealing. Mark and repair all cracks appearing on the outer surfaces 0.007" or greater in width or as designated by the Engineer.

Immediately before applying the sealer, clean the cracks by removing all dust and debris with compressed air. Seal the cracks with a two-part epoxy in accordance with the manufacturer's recommendations. Chase crack with the sealant application to limits of the crack, including those portions that are narrower than 0.007" wide. Use Paulco TE-2501 (Viking Paints, Inc.), Dural 50 LM (Euclid Chemical Co.), TK-9000 or TK-2110 (TK Products), or an approved equal epoxy sealer.

Include all work and materials associated with crack sealing of the concrete pier cap in the price bid for "Crack Sealing."



LAKE ARDOCH INTERCHANGE

NOTES

DRAWING NO. 29-163.699-3

JPG

900 ELEVATION CHECK POINTS: Place six bolts on the top of the barriers, in accordance with Std D-900-1, to serve as elevation check points. Include the cost for this item in the unit price bid for Class AAE-3 concrete.

930 ROADWAY CANOPY: A roadway canopy is required to be constructed above the traveled roadway prior to conducting any construction activities over traffic. The canopy is an added safeguard and does not relieve the Contractor from any responsibility for the safety of the public.

Submit the canopy details, including materials that will be used, to the Engineer for review. The canopy will provide a minimum vertical clearance of 15'-6" above the traveled roadway. The canopy will be extended a minimum distance of 5'-0" beyond the outside edge of deck of the structure and a minimum distance of 5'-0" beyond the edge of the driving lanes beneath the structure.

The canopy will remain in place until the new deck is complete. The canopy may be supported from the ground or suspended from the beams. Complete the installation of the canopy in a minimum amount of time and with the least inconvenience to the public.

Once the bridge barrier is completed, remove the canopy. A quantity of 0.5 L SUM will be paid at this location. Payment for "Roadway Canopy" includes the construction, maintenance, and removal of canopy system.

930 AGGREGATE SLOPE PROTECTION: Remove the existing concrete slope protection and place foundation fill and aggregate slope protection on the embankment slopes as shown. Place the foundation fill in accordance with Section 210.04 B.3.

Clear the subgrade of rubbish and vegetation before placing the aggregate slope protection. Thoroughly compact all loose material. Excavate or backfill as required to obtain the plan cross-section or lines and grades established in the field.

The gradation of the material used to form the slope protection is given in the following chart;

Sieve Size	% Passing
2"	100%
3/4"	5-35%
#4	0-5%

23 U.S.C. § 407 Documents NDDOT Reserves All Objections

REVISED 12-1/2023	STATE	PROJECT NO.	SECTION NO.	SHEET NO.
	ND	IM-6-029(164)163	170	12

The minimum fractured face requirement of the aggregate is 50% by weight on the portion of the aggregate retained on the No. 4 sieve. To be considered fractured, the rock must have at least one fractured face.

Deposit, spread, consolidate, and shape the aggregate by mechanical or hand methods to provide a uniform depth and density and produce a uniform surface appearance. Apply MC-250 that meets the requirements of Section 818.02 C, "Medium-Curing Cutback Asphalt" at an approximate rate of 1.8 gallons per square yard. The bituminous materials are to penetrate to a depth of not less than one-half the required thickness of the aggregate. Protect adjacent structure surfaces against bituminous splatter.

Include all costs for labor, materials, and equipment to complete this work, including the removals of the existing concrete slope protection and the foundation fill, in the unit price bid for "Aggregate Slope Protection."

CRACK SEALING: The Engineer will perform a visual inspection of the concrete pier cap to determine the need for crack sealing. Mark and repair all cracks appearing on the outer surfaces 0.007" or greater in width or as designated by the Engineer.

Immediately before applying the sealer, clean the cracks by removing all dust and debris with compressed air. Seal the cracks with a two-part epoxy in accordance with the manufacturer's recommendations. Chase crack with the sealant application to limits of the crack, including those portions that are narrower than 0.007" wide. Use Paulco TE-2501 (Viking Paints, Inc.), Dural 50 LM (Euclid Chemical Co.), TK-9000 or TK-2110 (TK Products), or an approved equal epoxy sealer.

Include all work and materials associated with crack sealing of the concrete pier cap in the price bid for "Crack Sealing."



MINTO INTERCHANGE

NOTES

DRAWING NO. 29-167.722-3

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NORTH DAKOTA DEPARTMENT OF TRANSPORTATION

Job 23636, IM-6-029(164)163

Deck Replacement & Joint Seal, Pipe Replacement & Slope Protection

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SP Certified Payrolls, dated 9-6-17

SP Project Payment Reporting

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NORTH DAKOTA DEPARTMENT OF TRANSPORTATION SPECIAL PROVISION

COMMERCIAL GRADE HOT MIX ASPHALT

PROJECT 6-029(164)163 - PCN 23636

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 FAA 43 or better 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 2.

Table 1			
Testing Frequencies			
Test/Assessment	Minimum Testing Requirements		
ND T 11 Materials Finer than No. 200 Sieve	1 per production day.		
ND T 27 Sieve Analysis of Fine and Coarse	1 per production day		
Aggregate			
ND T 304 Fine Aggregate Angularity	1 per production day		
ND T 166 Bulk Specific Gravity of			
Compacted Asphalt Mixtures Using	1 per project		
Saturated Surface-Dry Specimens			
ND T 209 Theoretical Maximum Specific	1 per project		
Gravity and Density of Hot Mix Asphalt			

The Engineer will determine the percentage of air voids when determining the maximum theoretical density. Provide mix with between 2 and 6 percent air voids, when calculated on the Maximum Density Worksheet (SFN 50289).

METHOD OF MEASUREMENT AND BASIS OF PAYMENT

Pay ItemPay UnitCommercial Grade Asphalt Hot Mix AsphaltTon

Include the cost of aggregate, asphalt cement, prime coat, class 44 blotter sand, tack coat and fog 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.