

November 30, 2023

ADDENDUM 2 – JOB 23419

TO: All prospective bidders on Projects IM-2-094(194)260 and SS-2-999(064), Job No. 23419 scheduled for the December 8, 2023 bid opening.

The following revision(s) shall be made:

Plan Revisions:

See attached summary from Kirk J. Hoff, P.E. dated November 29, 2023 for an explanation.

Request for Proposal Revisions:

- Remove and replace pages 5 thru 12 of 14 of the Proposal pages located at the beginning of the Request for Proposal with pages revised November 29, 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.



PHILLIP MURDOFF, P.E. – CONSTRUCTION SERVICES ENGINEER

80: jwj

Enclosure

PLAN ADDENDUM SUMMARY AND APPROVAL

PROJECT INFORMATION		
Project:	IM-2-094(194)260 & SS-2-999(064)	PCN: 23577 23419
Location:	SE JAMESTOWN INTERCHANGE	
Date:	November 27, 2023	Lead Designer: Jeff Rensch
Bid Opening Date:	12/8/2023	JOB#: 23419 Addendum#: 2

PLAN SHEET CHANGES		
Section	Sheet	Description
8	1-3	Revised bid items as shown in the table below. Revised quantity of bid item 430-0500 Commercial Grade Asphalt from 988 to 999 TONS. Added 2 EA of bid item Vehicle Speed Feedback Sign 704-8015. Deleted bid item Vehicle Speed Feedback Sign 754-8015. Revised quantity of bid item 754-0110 Flat Sheet for Signs-Type XI Refl Sheeting from 137 to 74 SF. Added 71 SF Panel for Signs-Type XI Reflective Sheeting 754-0530.
100	1	Revised bid item Vehicle Speed Feedback Sign from 754-8015 to 704-8015
110	2	Revised SN 1 from Flat Sheet for Signs-Type XI to Panel for Signs-Type XI.

CHANGES MADE TO BID ITEMS FOR JOB					
Spec	Code	Description	Unit	Previous Quantity	Revised Quantity
Main Bid					
430	0500	COMMERICAL GRADE ASPAHLT	TON	988	999
704	8015	VEHICLE SPEED FEEDBACK SIGN	EA	0	2
754	0110	FLAT SHEET FOR SIGNS-TYPE XI REFL SHEETING	SF	137	74
754	0530	PANEL FOR SIGNS-TYPE XI REFLECTIVE SHEETING	SF	0	71
754	8015	VEHICLE SPEED FEEDBACK SIGN	EA	2	0

APPROVAL

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

X Yes _____ No

Kirk J Hoff
Kirk J. Hoff, P.E. – Design Engineer

11/29/2023
Date

BID ITEMS

Projects: SS-2-999(064) (PCN-23419) and IM-2-094(194)260 (PCN-23577)

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.

Item No.	Spec No.	Code No.	Description	Unit	Approx. Quantity	Unit Price		Amount	
						\$\$\$\$	000	\$\$\$\$	00
001	103	0100	CONTRACT BOND	L SUM	1.				
002	107	0121	RAILWAY PROTECTION INSURANCE - COMPANY A	L SUM	1.				
003	107	0122	RAILWAY PROTECTION INSURANCE - COMPANY B	L SUM	1.				
004	107	0141	RAILROAD COORDINATION - COMPANY A	L SUM	1.				
005	107	0142	RAILROAD COORDINATION - COMPANY B	L SUM	1.				
006	107	0153	RAILROAD FLAGGING - COMPANY B	L SUM	1.				
007	107	0162	RAILROAD FLAGGING - COMPANY A	DAY	2,000.				
008	201	0330	CLEARING & GRUBBING	L SUM	1.				
009	202	0105	REMOVAL OF STRUCTURE	L SUM	1.				
010	202	0136	REMOVAL OF PAVEMENT	TON	11,244.				
011	202	0174	REMOVAL OF PIPE ALL TYPES AND SIZES	LF	288.				
012	202	0310	REMOVAL OF CHAIN LINK FENCE	LF	438.				
013	203	0101	COMMON EXCAVATION-TYPE A	CY	1,045.				
014	203	0109	TOPSOIL	CY	2,859.				
015	203	0140	BORROW-EXCAVATION	CY	6,446.				
016	203	0195	EMBANKMENT SPECIAL	L SUM	1.				

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Item No.	Spec No.	Code No.	Description	Unit	Approx. Quantity	Unit Price		Amount	
						\$\$\$\$	000	\$\$\$\$	00
017	210	0099	CLASS 1 EXCAVATION	L SUM	1.				
018	210	0201	FOUNDATION PREPARATION	EA	1.				
019	216	0100	WATER	M GAL	215.				
020	251	0200	SEEDING CLASS II	ACRE	3.800				
021	251	2000	TEMPORARY COVER CROP	ACRE	2.800				
022	253	0101	STRAW MULCH	ACRE	6.100				
023	255	0201	TRM TYPE 1	SY	100.				
024	261	0112	FIBER ROLLS 12IN	LF	7,457.				
025	261	0113	REMOVE FIBER ROLLS 12IN	LF	4,101.				
026	302	0120	AGGREGATE BASE COURSE CL 5	TON	9,119.				
027	401	0060	PRIME COAT	GAL	4,968.				
028	430	0500	COMMERCIAL GRADE HOT MIX ASPHALT	TON	999.				
029	550	0310	10IN NON REINF CONCRETE PVMT CL AE-DOWELED	SY	10,428.				
030	602	0130	CLASS AAE-3 CONCRETE	CY	469.600				
031	602	1130	CLASS AE-3 CONCRETE	CY	359.400				
032	602	1133	CONCRETE BRIDGE APPROACH SLAB	SY	226.				

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Item No.	Spec No.	Code No.	Description	Unit	Approx. Quantity	Unit Price		Amount	
						\$\$\$\$	000	\$\$\$\$	00
033	602	1135	BRIDGE APPROACH SLAB-REMOVE & REPLACE	SY	320.100				
034	602	1250	PENETRATING WATER REPELLENT TREATMENT	SY	4,199.				
035	602	1260	BRIDGE DECK CRACK SEALING	LF	2,400.				
036	602	2000	REMOVE AND RESET ANCHOR BOLTS	EA	2.				
037	602	7000	SPECIAL SURFACE FINISH	SF	6,251.				
038	604	9610	PRESTRESSED BOX BEAM-27IN	LF	1,701.				
039	612	0115	REINFORCING STEEL-GRADE 60	LBS	31,551.				
040	612	0116	REINFORCING STEEL-GRADE 60-EPOXY COATED	LBS	85,035.				
041	616	7500	BEARING MODIFICATION	EA	6.				
042	622	0040	STEEL PILING HP 12 X 53	LF	870.				
043	622	0060	STEEL PILING HP 14 X 73	LF	1,560.				
044	624	3005	CONNECTION PLATE MODIFICATION	EA	2.				
045	630	0110	SAND BLASTING & SPOT PAINTING	SF	114.				
046	650	0805	DECK SPALL REPAIR	SF	116.				
047	702	0100	MOBILIZATION	L SUM	1.				
048	704	0100	FLAGGING	MHR	1,050.				

BID ITEMS

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Item No.	Spec No.	Code No.	Description	Unit	Approx. Quantity	Unit Price		Amount	
						\$\$\$\$	000	\$\$\$\$	00
049	704	1000	TRAFFIC CONTROL SIGNS	UNIT	2,602.				
050	704	1045	ATTENUATION DEVICE-TYPE B-75	EA	3.				
051	704	1052	TYPE III BARRICADE	EA	31.				
052	704	1060	DELINEATOR DRUMS	EA	189.				
053	704	1067	TUBULAR MARKERS	EA	258.				
054	704	1072	FLEXIBLE DELINEATORS	EA	199.				
055	704	1081	VERTICAL PANELS-BACK TO BACK	EA	18.				
056	704	1087	SEQUENCING ARROW PANEL-TYPE C	EA	2.				
057	704	1090	FLASHING BEACON	EA	2.				
058	704	1500	OBLITERATION OF PAVEMENT MARKING	SF	2,132.				
059	704	3511	STATE FURNISHED MEDIAN BARRIER	LF	1,290.				
060	704	8015	VEHICLE SPEED FEEDBACK SIGN	EA	2.				
061	706	0400	FIELD OFFICE	EA	1.				
062	706	0500	AGGREGATE LABORATORY	EA	1.				
063	706	0600	CONTRACTOR'S LABORATORY	EA	1.				
064	709	0100	GEOSYNTHETIC MATERIAL TYPE G	SY	11,870.				

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Item No.	Spec No.	Code No.	Description	Unit	Approx. Quantity	Unit Price		Amount	
						\$\$\$\$\$	000	\$\$\$\$\$	00
065	710	0410	REMOVAL OF TEMP CONNECTION	EA	2.				
066	714	4090	PIPE CONDUIT 12IN	LF	68.				
067	714	4100	PIPE CONDUIT 18IN	LF	148.				
068	714	4105	PIPE CONDUIT 24IN	LF	72.				
069	748	0141	CURB & GUTTER-TYPE 1 SPECIAL	LF	81.				
070	752	0600	FENCE CHAIN LINK	LF	100.				
071	752	0993	FENCE TERMINAL	EA	4.				
072	752	3100	CORNER ASSEMBLY CHAIN LINK	EA	4.				
073	754	0110	FLAT SHEET FOR SIGNS-TYPE XI REFL SHEETING	SF	74.				
074	754	0112	FLAT SHEET FOR SIGNS-TYPE IV REFL SHEETING	SF	23.				
075	754	0149	RESET DELINEATOR	EA	5.				
076	754	0206	STEEL GALV POSTS-TELESCOPING PERFORATED TUBE	LF	70.				
077	754	0210	GALV STEEL POST-STANDARD PIPE	LF	109.				
078	754	0214	GALV STEEL POSTS-W-SHAPE POSTS(TWO OR MORE)	LF	66.				
079	754	0530	PANEL FOR SIGNS-TYPE XI REFLECTIVE SHEETING	SF	71.				
080	754	0534	PANEL FOR SIGNS-TYPE IV REFLECTIVE SHEETING	SF	15.				

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Item No.	Spec No.	Code No.	Description	Unit	Approx. Quantity	Unit Price		Amount	
						\$\$\$\$	000	\$\$\$\$	00
081	754	0557	INTERSTATE MILE POSTS-TYPE C	EA	1.				
082	754	0592	RESET SIGN PANEL	EA	1.				
083	754	0801	OBJECT MARKERS - TYPE I	EA	2.				
084	754	0803	OBJECT MARKERS - TYPE III	EA	1.				
085	754	1100	CLASS AE CONCRETE-SIGN FOUNDATIONS	CY	3.				
086	754	1104	REMOVE SIGN FOUNDATION	EA	5.				
087	762	0200	RAISED PAVEMENT MARKERS	EA	6,313.				
088	762	0430	SHORT TERM 4IN LINE-TYPE NR	LF	20,729.				
089	762	0432	SHORT TERM 6IN LINE-TYPE NR	LF	14,470.				
090	762	1104	PVMT MK PAINTED 4IN LINE	LF	25,276.				
091	762	1108	PVMT MK PAINTED 8IN LINE	LF	647.				
092	762	1305	PREFORMED PATTERNED PVMT MK 4IN LINE-GROOVED	LF	19,292.				
093	764	0107	REMOVE HIGH TENSION GUARDRAIL	LF	1,510.				
094	764	0109	RESET HIGH TENSION GUARDRAIL	LF	1,510.				
095	764	0131	W-BEAM GUARDRAIL	LF	1,576.				
096	764	0145	W-BEAM GUARDRAIL END TERMINAL	EA	9.				

BID ITEMS

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Item No.	Spec No.	Code No.	Description	Unit	Approx. Quantity	Unit Price		Amount	
						\$\$\$\$	000	\$\$\$\$	00
097	764	0151	REMOVE W-BEAM GUARDRAIL & POSTS	LF	2,195.				
098	764	1050	RESET W-BEAM GUARDRAIL	LF	325.				
099	764	1059	RESET W-BEAM GUARDRAIL END TERMINAL	EA	1.				
100	764	2081	REMOVE END TREATMENT & TRANSITION	EA	5.				
101	772	2110	FLASHING BEACON-POST MOUNTED	EA	2.				
102	900	0700	FLEXIBLE GROWTH MEDIUM	SY	1,696.				
103	910	0565	CONTROLLED DENSITY BACKFILL	CY	2.500				
104	930	3000	BRIDGE BENCH MARKS	SET	1.				
105	930	7012	ROADWAY CANOPY	L SUM	1.				
106	930	8671	CONCRETE SLEEPER SLAB	SY	156.				
107	930	8700	3 IN EXPANSION JOINT	LF	233.				
108	930	9505	BRIDGE REPAIR-BEARING	L SUM	1.				
109	930	9537	ABUTMENT UNDERDRAIN SYSTEM	EA	3.				
110	930	9612	SPALL REPAIR	SF	80.				
111	930	9660	ABUTMENT REPAIR	L SUM	1.				
112	950	8673	EXPANSION JOINT MODIFICATION	LF	61.700				

BID ITEMS

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Item No.	Spec No.	Code No.	Description	Unit	Approx. Quantity	Unit Price		Amount	
						\$\$\$\$\$	000	\$\$\$\$\$	00
113	980	0811	VERTICAL ROAD CLOSURE GATE-28FT	EA	2.				
			TOTAL SUM BID						

ESTIMATE OF QUANTITIES

STATE	PROJECT NO.	SECTION NO.	SHEET NO.
ND	IM-2-094(194)260	8	1

REVISED 11/29/2023

SPEC CODE	ITEM DESCRIPTION	UNIT	MAINLINE	TOTAL
-----	-----	-----	-----	-----
103	0100 CONTRACT BOND	L SUM	0.86	0.86
107	0121 RAILWAY PROTECTION INSURANCE - COMPANY A	L SUM	1	1
107	0141 RAILROAD COORDINATION - COMPANY A	L SUM	1	1
107	0162 RAILROAD FLAGGING - COMPANY A	DAY	2,000	2,000
201	0330 CLEARING & GRUBBING	L SUM	1	1
202	0105 REMOVAL OF STRUCTURE	L SUM	1	1
202	0136 REMOVAL OF PAVEMENT	TON	10,876	10,876
202	0174 REMOVAL OF PIPE ALL TYPES AND SIZES	LF	288	288
203	0101 COMMON EXCAVATION-TYPE A	CY	1,045	1,045
203	0109 TOPSOIL	CY	2,859	2,859
203	0140 BORROW-EXCAVATION	CY	6,446	6,446
210	0099 CLASS 1 EXCAVATION	L SUM	1	1
210	0201 FOUNDATION PREPARATION	EA	1	1
216	0100 WATER	M GAL	215	215
251	0200 SEEDING CLASS II	ACRE	3.8	3.8
251	2000 TEMPORARY COVER CROP	ACRE	2.8	2.8
253	0101 STRAW MULCH	ACRE	6.1	6.1
261	0112 FIBER ROLLS 12IN	LF	7,457	7,457
261	0113 REMOVE FIBER ROLLS 12IN	LF	4,101	4,101
302	0120 AGGREGATE BASE COURSE CL 5	TON	9,040	9,040
401	0060 PRIME COAT	GAL	4,914	4,914
430	0500 COMMERCIAL GRADE HOT MIX ASPHALT	TON	999	999
550	0310 10IN NON REINF CONCRETE PVMT CL AE-DOWELED	SY	10,275	10,275
602	0130 CLASS AAE-3 CONCRETE	CY	450.1	450.1
602	1130 CLASS AE-3 CONCRETE	CY	359.4	359.4
602	1133 CONCRETE BRIDGE APPROACH SLAB	SY	226	226
602	1250 PENETRATING WATER REPELLENT TREATMENT	SY	1,541	1,541
604	9610 PRESTRESSED BOX BEAM-27IN	LF	1,701	1,701
612	0115 REINFORCING STEEL-GRADE 60	LBS	31,551	31,551
612	0116 REINFORCING STEEL-GRADE 60-EPOXY COATED	LBS	81,281	81,281
622	0040 STEEL PILING HP 12 X 53	LF	870	870
622	0060 STEEL PILING HP 14 X 73	LF	1,560	1,560
624	3005 CONNECTION PLATE MODIFICATION	EA	2	2

ESTIMATE OF QUANTITIES

STATE	PROJECT NO.	SECTION NO.	SHEET NO.
ND	IM-2-094(194)260	8	2

REVISED 11/29/2023

SPEC CODE	ITEM DESCRIPTION	UNIT	MAINLINE	TOTAL
-----	-----	-----	-----	-----
702 0100	MOBILIZATION	L SUM	0.86	0.86
704 0100	FLAGGING	MHR	1,050	1,050
704 1000	TRAFFIC CONTROL SIGNS	UNIT	2,602	2,602
704 1045	ATTENUATION DEVICE-TYPE B-75	EA	3	3
704 1052	TYPE III BARRICADE	EA	31	31
704 1060	DELINEATOR DRUMS	EA	189	189
704 1067	TUBULAR MARKERS	EA	258	258
704 1072	FLEXIBLE DELINEATORS	EA	199	199
704 1081	VERTICAL PANELS-BACK TO BACK	EA	18	18
704 1087	SEQUENCING ARROW PANEL-TYPE C	EA	2	2
704 1090	FLASHING BEACON	EA	2	2
704 1500	OBLITERATION OF PAVEMENT MARKING	SF	2,132	2,132
704 3511	STATE FURNISHED MEDIAN BARRIER	LF	1,290	1,290
704 8015	VEHICLE SPEED FEEDBACK SIGN	EA	2	2
706 0400	FIELD OFFICE	EA	1	1
706 0500	AGGREGATE LABORATORY	EA	1	1
706 0600	CONTRACTOR'S LABORATORY	EA	1	1
709 0100	GEOSYNTHETIC MATERIAL TYPE G	SY	11,870	11,870
710 0410	REMOVAL OF TEMP CONNECTION	EA	2	2
714 4090	PIPE CONDUIT 12IN	LF	68	68
714 4100	PIPE CONDUIT 18IN	LF	148	148
714 4105	PIPE CONDUIT 24IN	LF	72	72
748 0141	CURB & GUTTER-TYPE 1 SPECIAL	LF	62	62
754 0110	FLAT SHEET FOR SIGNS-TYPE XI REFL SHEETING	SF	74	74
754 0112	FLAT SHEET FOR SIGNS-TYPE IV REFL SHEETING	SF	23	23
754 0149	RESET DELINEATOR	EA	5	5
754 0206	STEEL GALV POSTS-TELESCOPING PERFORATED TUBE	LF	70	70
754 0210	GALV STEEL POST-STANDARD PIPE	LF	109	109
754 0214	GALV STEEL POSTS-W-SHAPE POSTS(TWO OR MORE)	LF	66	66
754 0530	PANEL FOR SIGNS-TYPE XI REFLECTIVE SHEETING	SF	71	71
754 0534	PANEL FOR SIGNS-TYPE IV REFLECTIVE SHEETING	SF	15	15
754 0557	INTERSTATE MILE POSTS-TYPE C	EA	1	1
754 0592	RESET SIGN PANEL	EA	1	1

ESTIMATE OF QUANTITIES

STATE	PROJECT NO.	SECTION NO.	SHEET NO.
ND	IM-2-094(194)260	8	3

REVISED 11/29/2023

SPEC CODE	ITEM DESCRIPTION	UNIT	MAINLINE	TOTAL
-----	-----	-----	-----	-----
754	0801 OBJECT MARKERS - TYPE I	EA	2	2
754	0803 OBJECT MARKERS - TYPE III	EA	1	1
754	1100 CLASS AE CONCRETE-SIGN FOUNDATIONS	CY	3	3
754	1104 REMOVE SIGN FOUNDATION	EA	5	5
762	0200 RAISED PAVEMENT MARKERS	EA	6,313	6,313
762	0430 SHORT TERM 4IN LINE-TYPE NR	LF	20,729	20,729
762	0432 SHORT TERM 6IN LINE-TYPE NR	LF	14,470	14,470
762	1104 PVMT MK PAINTED 4IN LINE	LF	25,276	25,276
762	1108 PVMT MK PAINTED 8IN LINE	LF	647	647
762	1305 PREFORMED PATTERNED PVMT MK 4IN LINE-GROOVED	LF	19,292	19,292
764	0107 REMOVE HIGH TENSION GUARDRAIL	LF	1,510	1,510
764	0109 RESET HIGH TENSION GUARDRAIL	LF	1,510	1,510
764	0131 W-BEAM GUARDRAIL	LF	1,472	1,472
764	0145 W-BEAM GUARDRAIL END TERMINAL	EA	9	9
764	0151 REMOVE W-BEAM GUARDRAIL & POSTS	LF	2,091	2,091
764	1050 RESET W-BEAM GUARDRAIL	LF	325	325
764	1059 RESET W-BEAM GUARDRAIL END TERMINAL	EA	1	1
764	2081 REMOVE END TREATMENT & TRANSITION	EA	5	5
772	2110 FLASHING BEACON-POST MOUNTED	EA	2	2
900	0700 FLEXIBLE GROWTH MEDIUM	SY	1,696	1,696
930	3000 BRIDGE BENCH MARKS	SET	1	1
930	7012 ROADWAY CANOPY	L SUM	1	1
930	8671 CONCRETE SLEEPER SLAB	SY	125	125
930	8700 3 IN EXPANSION JOINT	LF	187	187
930	9537 ABUTMENT UNDERDRAIN SYSTEM	EA	2	2
980	0811 VERTICAL ROAD CLOSURE GATE-28FT	EA	2	2

SIGN NUMBER	SIGN SIZE	DESCRIPTION	AMOUNT REQUIRED			TOTAL AMOUNT REQUIRED	UNITS PER AMOUNT	UNITS SUB TOTAL
			1	2	3			
E5-1-48	48"x48"	EXIT GORE					35	
G20-1-60	60"x24"	ROAD WORK NEXT MILES					28	
G20-1b-60	60"x24"	NO WORK IN PROGRESS (Sign and installation only)					18	
G20-2-48	48"x24"	END ROAD WORK	3	3	3	3	26	78
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	72"x36"	ROAD WORK NEXT MILES RT & LT ARROWS					43	
G20-52a-72	72"x24"	ROAD WORK NEXT MILES RT or LT ARROW					36	
G20-55-96	96"x48"	SPEED LIMIT ENFORCED - MINIMUM FEE \$80 WHEN WORKERS PRESENT	6	7	7	7	59	413
M1-1-36	36"x36"	INTERSTATE ROUTE MARKER (Post and installation only)					11	
M1-4-24	24"x24"	U.S. ROUTE MARKER (Post and installation only)					10	
M1-5-24	24"x24"	STATE ROUTE MARKER (Post and installation only)					10	
M3-1-24	24"x12"	NORTH (Mounted on route marker post)					7	
M3-2-24	24"x12"	EAST (Mounted on route marker post)					7	
M3-3-24	24"x12"	SOUTH (Mounted on route marker post)					7	
M3-4-24	24"x12"	WEST (Mounted on route marker post)					7	
M4-8-24	24"x12"	DETOUR (Mounted on route marker post)					7	
M4-9-30	30"x24"	DETOUR ARROW RIGHT or LEFT/AHD AND RT or LT					15	
M4-10-48	48"x18"	DETOUR (INSIDE ARROW) RIGHT or LEFT (Mounted on barricade)					7	
M5-1-21	21"x15"	ADVANCE TURN ARROW RT or LT (Mounted on route marker post)					7	
M5-1-30	30"x21"	ADVANCE TURN ARROW RT or LT (Mounted on route marker post)					9	
M6-1-21	21"x15"	DIRECTIONAL ARROW RT or LT (Mounted on route marker post)					7	
M6-1-30	30"x21"	DIRECTIONAL ARROW RT or LT (Mounted on route marker post)					9	
M6-3-21	21"x15"	DIRECTIONAL ARROW UP (Mounted on route marker post)					7	
R1-1-48	48"x48"	STOP					32	
R1-2-60	60"x60"	YIELD		1	1	1	29	29
R2-1-36	36"x48"	SPEED LIMIT (Portable only)	3	4	4	4	30	120
R2-1-48	48"x60"	SPEED LIMIT	8	10	10	10	39	390
R2-1aP-24	24"x18"	MINIMUM FEE \$80 (Mounted on Speed Limit post)	9	10	10	10	10	100
R3-2-48	48"x48"	NO LEFT TURN					35	
R4-1-48	48"x60"	DO NOT PASS	2	2	2	2	39	78
R4-7-48	48"x60"	KEEP RIGHT	2	2	2	2	39	78
R5-1-48	48"x48"	DO NOT ENTER					35	
R6-1-54	54"x18"	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					16	
R11-2-48	48"x30"	ROAD CLOSED (Mounted on barricade)	4	5	5	5	12	60
R11-2a-48	48"x30"	STREET CLOSED (Mounted on barricade)					12	
R11-3a-60	60"x30"	ROAD CLOSED MILES AHEAD LOCAL TRAFFIC ONLY (Mtd on barricade)					15	
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	
W1-1-48	48"x48"	RIGHT TURN	1	1	1	1	35	35
W1-3-48	48"x48"	REVERSE TURN RIGHT or LEFT					35	
W1-4-48	48"x48"	REVERSE CURVE RIGHT or LEFT	2	2	2	2	35	70
W1-4b-48	48"x48"	TWO LANE REVERSE CURVE RIGHT or LEFT					35	
W1-6-48	48"x24"	ONE DIRECTION LARGE ARROW	4	5	5	5	26	130
W3-1-48	48"x48"	STOP AHEAD					35	
W3-3-48	48"x48"	SIGNAL AHEAD					35	
W3-4-48	48"x48"	BE PREPARED TO STOP	2	2	2	2	35	70
W3-5-48	48"x48"	SPEED REDUCTION AHEAD	2	3	3	3	35	105
W4-2-48	48"x48"	LANE ENDS RIGHT or LEFT	2	2	2	2	35	70
W5-1-48	48"x48"	ROAD NARROWS					35	
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	48"x48"	TWO WAY TRAFFIC	2	2	2	2	35	70
W8-1-48	48"x48"	BUMP					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	48"x48"	NO CENTER LINE					35	
W8-17-48	48"x48"	SHOULDER DROP-OFF SYMBOL					35	
W8-53-48	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	48"x48"	CENTER LANE CLOSED SYMBOL					35	
W13-1P-30	30"x30"	MPH ADVISORY SPEED PLAQUE (Mounted on warning sign post)	1	1	1	1	14	14
W13-4R-48	48"x60"	RAMP WITH ARROW	1	1	1	1	39	39
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	2	2	2	2	35	70
W20-2-48	48"x48"	DETOUR AHEAD or FT or MILE					35	
W20-3-48	48"x48"	ROAD or STREET CLOSED AHEAD or FT or MILE					35	
W20-4-48	48"x48"	ONE LANE ROAD AHEAD or FT or MILE					35	
W20-5-48	48"x48"	RIGHT or CENTER or LEFT LANE CLOSED AHEAD or FT or MILE	4	4	4	4	35	140
W20-7-48	48"x48"	FLAGGER	4	2	2	4	35	140
W20-8-18	18"x18"	STOP - SLOW PADDLE Back to Back					5	
W20-52P-54	54"x12"	NEXT MILES (Mounted on warning sign post)	2	2	2	2	12	24
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	

SIGN NUMBER	SIGN SIZE	DESCRIPTION	AMOUNT REQUIRED			TOTAL AMOUNT REQUIRED	UNITS PER AMOUNT	UNITS SUB TOTAL
			1	2	3			
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	
W-4-5-48	48"x48"	ENTERING ROADWAY MERGE	1	1	1	1	35	35

SPECIAL SIGNS

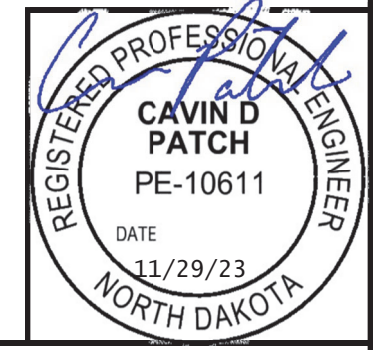
CONSIGN	SIZE	DESCRIPTION	1	2	3	TOTAL AMOUNT	UNITS PER AMOUNT	UNITS SUB TOTAL
CONSIGN 1	78"x48"	EXIT 260 WITH ARROW	1	1		1	52	52
CONSIGN 2	84"x24"	EXIT 260	2	2		2	39	78
CONSIGN 3	90"x54"	JAMESTOWN WITH ARROW	1	1		1	61	61
CONSIGN 4	90"x42"	JAMESTOWN 1 MILE	1	1		1	53	53

SPEC & CODE

SPEC & CODE	DESCRIPTION	TOTAL UNITS
704-1000	TRAFFIC CONTROL SIGNS	2602

SPEC & CODE	DESCRIPTION	UNIT	QUANTITY			TOTAL QUANTITY
			1	2	3	
704-0100	FLAGGING	MHR	1000	50		1050
704-1045	ATTENUATION DEVICE-TYPE B-75	EA		3	3	3
704-1048	PORTABLE RUMBLE STRIPS	EACH				
704-1050	TYPE I BARRICADES	EACH				
704-1052	TYPE III BARRICADES	EACH	11	29	31	31
704-1060	DELINEATOR DRUMS	EACH	59	186	189	189
704-1065	TRAFFIC CONES	EACH				
704-1067	TUBULAR MARKERS	EACH	258	104	104	258
704-1070	DELINEATOR	EACH				
704-1072	FLEXIBLE DELINEATORS	EACH		199	199	199
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	2	2	2	2
704-1090	FLASHING BEACON	EA		2	2	2
704-1500	OBLITERATION OF PVMT MK	SF		2132		2132
704-3501	PORTABLE PRECAST CONCRETE MED BARRIER	LF				
704-3510	PRECAST CONCRETE MED BARRIER - STATE FURNISHED	EACH				
704-3511	STATE FURNISHED MEDIAN BARRIER	LF		1290	1290	1290
704-8015	VEHICLE SPEED FEEDBACK SIGN	EACH		2	2	2
762-0200	RAISED PAVEMENT MARKERS	EACH		6313		6313
762-0420	SHORT TERM 4IN LINE - TYPE R	LF				
762-0430	SHORT TERM 4IN LINE - TYPE NR	LF		20729		20729
762-0432	SHORT TERM 6IN LINE-TYPE NR	LF		13110	1360	14470

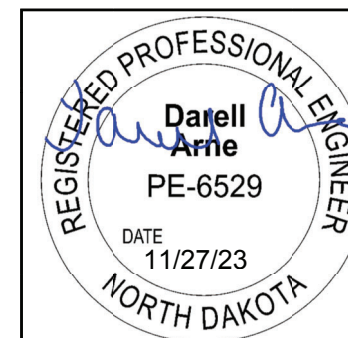
NOTE:
If additional signs are required, units will be calculated using the formula from Section III-18.06 of the Design Manual.
<http://www.dot.nd.gov/>



Traffic Control Devices List

Revised 11/27/23	STATE	PROJECT NO.	SECTION NO.	SHEET NO.
	N.D.	IM-2-094(194)260	110	2

Station / RP	Sign / Assembly No.	Flat Sheet For Signs		Panel For Signs		Overlay Panel		Vert Clearance FT	Galv Steel Sheet Standard Pipe			Galv Steel Post W-Shape Posts			Max Post Len LF	Post Space FT	Revise Fuse Joint EA	Std Pipe Fdn			W-Shape Pile LF	Remove Sign Fdns		Reset Sign Panel EA	Reset Sign Support EA	Stub Post EA	Multi Dir Base EA	Comments
		IV SF	XI SF	IV SF	XI SF	IV SF	XI SF		1st LF	2nd LF	Size	1st LF	2nd LF	3rd LF				Dia FT	Dep FT	Vol CY		Conc Fdn EA	W-Shape Pile EA					
I-94																												
13690+36 Rt	SN 1				71.0			7.0			W5x16	18.7	19.5	20.2	5.3						28							
13716+65 Rt	S.A.A		12.0					7.0	14.0	3.5				17.5				1.3	5.5	0.3								
13718+65 Rt	SN 3			15.0				7.0	13.1	3.5				16.0				1.3	5.5	0.3		1						
13720+27 Rt	S.A.C		22.3					7.0	18.3	3.5				18.5				1.3	6.0	0.3								
13724+24 Rt								7.0	16.1	16.1	5.0			17.7	4.5			1.8	8.0	1.4		2	1					
13738+83 Rt	S.A.B	22.5						7.0	17.5	4.0				17.5				1.3	7.5	0.4		1						
Sub Total		22.5	34.3	15.0	71.0			Total	95.1		Total	38.2								2.7	28	4	0	1	0	0	0	
Exit 260 off ramp																												
13+77 Rt	S.A.A		12.0					7.0	14.0	3.5				17.5				1.3	5.5	0.3								
15+10 Rt																					1							
Sub Total			12.0					Total	14.0		Total	0.0								0.3	0	1	0	0	0	0	0	
Grand Total		22.5	46.3	15.0	71.0			Total	109.1		Total	38.2								3.0	28	5	0	1	0	0	0	



Sign Summary
 Round Steel Pipe & W-Shape
 SE Jamestown Interchange
 I-94