A d d e n d u m

Iowa Department of Transportation
Office of Contracts

Date of Letting: May 19, 2015
Date of Addendum: May 8, 2015

B.O.	Proposal ID	Proposal Work Type	County	Project Number	Addendum
103	28-0209-203	PCC PAVEMENT - GRADE AND NEW	Delaware	NHSN-020-8(52)--2R-28 NHSX-020-9(203)--3H-28 NHSX-020-9(204)--3H-28 HNSX-020-9(205)--3H-28	19MAY103.A02

Make the following changes to the PROPOSAL SCHEDULE OF PRICES:

Change Proposal Line No. 0020 2102-0425071 SPECIAL BACKFILL:
From: 25,782.000 CY
To: 25,795.000 CY

Change Proposal Line No. 0130 2115-0100000 MODIFIED SUBBASE:
From: 7,214.500 CY
To: 7,222.800 CY

Change Proposal Line No. 0140 2121-7425010 GRANULAR SHOULDERS, TYPE A:
From: 14,685.500 TON
To: 14,657.200 TON

Change Proposal Line No. 0160 2122-5500060 PAVED SHOULDER, HOT MIX ASPHALT MIXTURE, 6 IN.:
From: 7,485.300 SY
To: 7,609.700 SY

Change Proposal Line No. 0410 2422-1722018 CULVERT, UNCLASSIFIED ENTRANCE PIPE, 18 IN. DIA.:
From: 357.000 LF
To: 369.000 LF

Change Proposal Line No. 1010 2554-0202200 FITTINGS BY COUNT, DUCTILE IRON, TEE, 12 IN. X 6 IN:
From: 2.000 EACH
To: 3.000 EACH

Change Proposal Line No. 1030 2599-9999005 (‘EACH’ ITEM) REMOVE AND REINSTALL EXISTING FIRE HYDRANT ASSEMBLY:
From: 3.000 EACH
To: 4.000 EACH

Add Proposal Line No. 0265 2402-0425040 FLOODED BACKFILL: 4,846.800 CY

Add Proposal Line No. 0645 2506-4984000 FLOWABLE MORTAR: 41.800 CY

If the above changes are not made, they will be made as shown here.

NHSX-020-9(203)--3H-28

Sheet B.10

Add Road Design Detail 7156 to the plan.

Sheet C.12

Replace TAB 102-3 with the attached TAB 102-3

Sheet C.9

Replace TAB 104-3 with the attached TAB 104.3

Sheet C.12

Replace TAB 112-9 with the attached TAB 112-9

Sheet C.3

Add the following ESTIMATE REFERENCE NOTE:

Bid Item No. 16, Item Code 2122-5500060, Item “PAVED SHOULDER, HOT MIX ASPHALT MIXTURE, 6 IN.”

- *“B. 7" PCC may be substituted with the following jointing layout: Match mainline pavement joint spacing. Place additional transverse 'C' joints in shoulder at mid-panel of the mainline pavement. Place longitudinal 'C' joint at W/2 from edge of mainline* pavement when W is greater than 10' wide. Terminate longitudinal joint at transverse joint less than 10' in length.”

Sheet C.4

Bid Item No. 103, Item Code 2599-9999005, Item “REMOVE AND REINSTALL EXISTING FIRE HYDRANT ASSEMBLY “ replaced bullet point “B.” of Estimate Reference Note with the following:

- *“B. Method of Measurement: Each existing fire hydrant assembly removed and relocated to the new or existing water main will be counted.”*

Sheet E.10.

Delete entrance at Sta. 31072+00 and added entrance at Sta. 31062+00.

Sheet U.3

Added the following notes:

- *"Relocate Existing Fire Hydrant Assembly at Sta. 51086+12.00, LT and Install on Existing 12" Water Main at Sta. 51086+95.00, LT"*
- *Install 12"x6" Tee at Sta. 51086+95.00, 23.50' LT"*

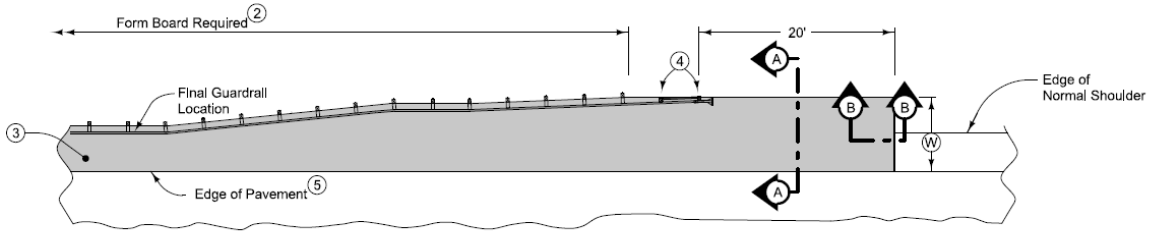
Sheet X.59

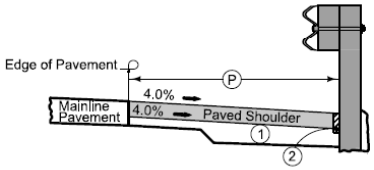
Replace the cross section at Sta. 31062+00 on Sheet X.59 with attached revised cross section

Sheet X.67

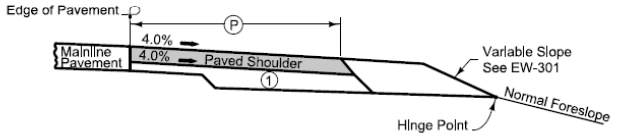
Replace the cross section at Sta. 31072+00 on Sheet X.67 with attached revised cross section

7156
04-16-13

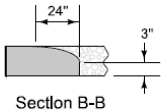




Typical Section with Form Board



Section A-A



Section B-B
Roll down at granular shoulder or earth.

6" HMA Paved Shoulder at guardrail. 7" PCC may be substituted with the following jointing layout:

Match mainline pavement joint spacing. When mainline pavement is 8" or greater in thickness, place additional transverse 'C' joints in shoulder at mid-panel of the mainline pavement. Place longitudinal 'C' joint at W/2 from edge of mainline pavement when W is greater than 10' wide. Terminate longitudinal joint at transverse joint less than 10' in length.

Compaction of HMA is required to face of guardrail post. Hand compaction will be allowed under guardrail. Removal & reinstallation of guardrail will be allowed with no additional payment.

Refer to Shoulder tabulation (112-9) for quantities.

(1) 6" subgrade treatment.

(2) When guardrail posts are installed prior to construction of paved shoulder, nail 1" x 6" untreated form boards along the face of guardrail posts for the length shown. This board is to prevent shoulder material from contacting the sides of the posts and altering the function of the guardrail. Form board not required for final 2 posts.

(3) Continue paved shoulder to existing paved shoulder or 20' beyond the end of guardrail.

(4) Shoulder may be notched for final 2 posts or post sleeves may be installed through pavement.

(5) 'KT-1' joint for PCC shoulder.
'B' joint for HMA shoulder.

PAVED SHOULDER AT GUARDRAIL

ACCESS POINTS AND SAFETY RAMPS

Refer to Cross-Sections

Length of unclassified pipe calculated is based on using Reinforced Concrete Pipe.
(1) Refer to MI-210
(2) Refer to EW-501.
(3) Refer to EW-501 or EW-502.
*Predetermined for access point not constructed with this project.

Location		Type	Length of Opening (1)			W	(1) (2) PR	(2) SR	Pipe Culvert (3)					Aprons	Driveway Surface Area		Driveway Surfacing Material	Remarks
Station	Side	A, B, C, Safety Ramp, or Predetermined*	Case	1½" Dropped Curb	3" Dropped Curb				H	Size	Pipe Length	Lt.	Rt.		HMA	PCC		
			1 or 2	LF	LF	FT	FT	FT	FT	IN	LF	LF	LF	No.	SY	SY	TON	
11037+42.00	LT	C				20.0		20.0									13.000	
11037+42.00	RT	C				16.0		20.0									12.000	
11042+20.00	LT	B				45.0	50.0									798.9		
11078+88.00	LT	C				30.0		15.0									40.000	
11080+15.00	LT	C				20.0	10.0									75.9		
11080+86.00	LT	C				20.0		10.0									17.000	
31062+00.00	RT	C				20.0		15.0	3.0	18.0	68.0	42.0	32.0	2			35.000	
31089+60.00	RT	C				20.0		15.0	3.0	18.0	64.0	30.0	40.0	2			20.000	
41060+50.00	LT	C				20.0		15.0									16.000	
51086+50.00	LT	B				2-7	25.0									40.0		
60001+92.00	Rt	C				16.0		10.0	1.0	18.0	128.0	82.3	45.7	2			9.000	
60002+02.00	LT	C				16.0		10.0	1.0	18.0	109.0	42.3	66.7	2			7.000	

DRAINAGE STRUCTURE BY ROAD CONTRACTOR

Length of unclassified pipe calculated is based on using Reinforced Concrete Pipe.

* Not a bid item
(1) Diameter or equivalent diameter
(2) UNCL = Unclassified Pipe CMP = Corrugated Metal Pipe RCP = Reinforced Concrete Pipe LCP = Arch or Elliptical Low Clearance Pipe SARC = Steel Arch Pipe

Drainage Area	Location	Type	Size (1)	Kind Of Pipe (2)	Length New Const.	Bedding Class	Design Cover (H)	Camber* (DR-102)	Apron No.		Apron Guard* (DR-213)	Elbow* (DR-141)	Diaphragm* (DR-501)	Tee Section* (DR-142)	"D" Section* (DR-141)	Reducer*	Type 'C' Connections* (DR-122)		Connected Pipe Joint* (DR-121)	4" Perforated Subdrain*	Flow Line Elevations				Dimensions Lin. Ft. Total		Dimensions Lin. Ft. Extensions		Skew Ahead Degrees		Dike Rt. / Lt.	Dike Location Station	Dike Top Elevation	Dike Type	Class 20	Flowable Mortar	Floodable* Backfill (A)	Porous* Backfill (B)	Flooded Backfill (A+B)	Remarks
ACRE			IN		LF		FT	FT	IN	OUT	No.	No.	No.	No.	No.	No.	Type	No.	Type	FT	Lt.	Rt.	Other	Other	Lt.	Rt.	Lt.	Rt.	Lt.	Rt.	Lt.				CY	CY	CY	CY	CY	
8.0	1042+26.94	1301	30	RCP	2	B	6.4		1		1						C-1	1	Type 3		998.75	994.84	998.62					2.0							-		-	-	-	
8.5	1053+05.00	1101	30	RCP	306	B	9.9		1	1	2								Type 3		999.00	996.00			138.0	168.0									1353.0		1272.2	25.2	1297.4	
2.8	1059+80.00	1201	24	RCP	76	B	6.6		1	1	2				1				Type 3		998.20	995.10	995.70		28.8	46.9									235.0		216.3	4.9	221.2	F=70°
6.7	1059+91.00	1101	24	RCP	164	B	4.3		1	1	2								Type 3		996.20	995.20			80.5	83.5									457.0		425.5	12.4	437.9	
1.5	1076+00.00	1201	24	RCP	90	B	3.0		1	1	2				1				Type 3		993.90	989.50	992.00		24.1	65.8									195.0		177.3	7.2	184.5	F=90°
0.1	1076+80.00	1101	24	RCP	54	B	7.0			1	1								Type 3		983.60	985.35			129.7	69.7									100.0	18.3	54.4	4.1	58.5	[1]
30.0	1082+05.00	1301	42	RCP	36	B	6.1										C-1	2	Type 3		978.20	983.17	980.02	983.40			28.0	8.0							25.0			0.0	0.0	[2]
4.5	2070+40.00	1101	24	RCP	126	B	11.2		1	1	2								Type 3		994.75	995.50			69.5	56.5									427.0		375.0	7.1	382.1	
12.5	3057+90.00	1101	30	RCP	164	B	16.1		1	1	2								Type 3		994.00	993.00			88.0	76.0									419.0		390.4	9.5	399.9	3000D Pipe
6.6	5071+86.00	1101	24	RCP	64	B	3.7		1	1	2								Type 3		996.50	995.50			38.3	25.7									985.0	14.0	954.9	4.5	959.4	
37.8	11052+95.00	1101	42	RCP	106	B	9.0		1	1									Type 3		986.40	987.25			54.0	52.0					5				164.0		143.8	7.9	151.7	
9.1	11078+46.00	1101	30	RCP	96	B	9.8		1	1	2								Type 3		973.50	970.50			44.5	51.5					20				159.0		116.9	7.9	124.8	
29.4	21047+76.00	1101	42	RCP	88	B	4.2		1	1									Type 3		984.30	983.70	983.87		42.8	45.2									403.0		380.0	7.0	387.0	
6.6	31054+67.00	1101	24	RCP	116	B	10.4		1	1									Type 3		988.00	987.25			56.5	60.0			5						197.0		148.7	6.8	155.5	
12.1	31078+85.00	1101	30	RCP	54	B	2.6		1	1	2								Type 3		984.50	985.00			28.0	26.0									54.0	9.5	34.7	3.5	38.2	
4.7	41056+30.00	1602	24	UNCL	76	B	7.3		1	1			2								1004.00	999.00	999.94		29.1	47.0									356.0				0.0	F=55.5'
2.4	41065+21.00	1601	24	UNCL	80	B	8.2		1	1											998.00	999.00			42.7	37.3					10				160.0				0.0	
6.6	41072+93.00	1601	24	UNCL	138	B	13.0		1	1											981.00	982.00			72.3	65.7			15						281.0				0.0	
12.7	51075+07.00	1101	30	RCP	176	B	14.3		1	1	2								Type 3		978.90	980.90			95.0	81.0									69.0		35.3	13.2	48.5	3000D Pipe

[1] Install SW-512 (See D.3)
[2] Re-use 2 Flared End Sections

SHOULDERS

(1) Lane(s) to which the shoulder is adjacent.
(2) Bid Item
(3) Applies only for Paved Shoulders constructed on project with existing granular shoulders.
(4) Does not include shrink.

Calculations assume a HMA unit weight (lbs/cf) of 145, a Special Backfill unit weight (lbs/cf) of 140, and a Granular Shoulder unit weight (lbs/cf) of 140.

Location					Quantities																
Road Identification	(1) Direction Of Traffic	Station to Station		Side	(P) Width	(G) Width	(L) Length	Class 13 (3) Excavation	Hot Mix Asphalt		Binder	Paved Shoulder	Reinforced Paved Shoulder	Special Backfill				Modified Subbase	Granular Shoulder		Earth Shoulder Construction Alternates			Remarks
														HMA Alternate		PCC Alternate					(2) STA	HMA	PCC	
					FT	FT	FT	CY (2)	TON	TON/STA	TONS	SY (2)	SY (2)	CY (2)	CY/STA	CY (2)	CY/STA	CY (2)	TON (2)	TON/STA		CY (4)	CY (4)	
US 20	EB	1039+98.04	1077+25.00	L	4.0	2.0	3727.0		574.2	15.4	34.5	1656.4		1463.2	39.3				555.7	14.9	37.3	2559.2		
US 20	EB	1039+98.04	1045+79.51	R	4.0	4.0	581.5		89.6	15.4	5.4	1656.4		281.7	48.4				205.5	35.4	37.3	398.4		
US 20	EB	1045+79.51	1050+50.00	R		6.0	470.5							182.6	38.8				138.3	29.4	4.7	289.4		
US 20	EB	1050+50.00	1062+73.29	R	4.0	4.0	1223.3		188.5	15.4	11.3	543.7		592.6	48.4				432.4	35.4	12.2	838.2		
US 20	EB	1062+73.29	1064+51.57	R	15.0		178.3					297.1		87.6	49.1						1.8			10.5" PCC Paved Shld
US 20	EB	1064+51.57	1075+39.92	R	4.0	4.0	1088.3		167.7	15.4	10.1	483.7		527.2	48.4				384.7	35.4	10.9	745.7		
US 20	EB	1077+69.92	1085+69.94	R		6.0	800.0							310.5	38.8				235.2	29.4	8.0	492.2		
US 20	EB	1085+69.94	1087+69.92	R	4 to 2	2 to 6	200.0		30.8	15.4	1.8	66.7		96.9	48.4				70.7	35.4	2.0	137.0		
US 20	WB	1039+98.04	1077+25.00	L	4.0	2.0	3727.0		574.2	15.4	34.5	1656.4		1463.2	39.3				555.7	14.9	37.3	2559.2		
US 20	WB	1039+98.04	1041+97.94	R	2 to 4	6 to 2	199.9		30.8	15.4	1.8	66.6		96.8	48.4				70.7	35.4	2.0	137.0		
US 20	WB	1041+97.94	1049+98.04	R		6.0	800.1							310.6	38.8				235.2	29.4	8.0	492.2		
US 20	WB	1052+28.04	1063+27.86	R	4.0	4.0	1099.8		169.4	15.4	10.2	488.8		532.8	48.4				388.8	35.4	11.0	753.6		
US 20	WB	1063+27.86	1065+06.14	R	15.0		178.3					297.1		107.4	60.2						1.8			10.5" PCC Paved Shld
US 20	WB	1065+06.14	1077+25.00	R	4.0	4.0	1218.9		187.8	15.4	11.3	541.7		590.5	48.4				430.9	35.4	12.2	835.1		
US 20	WB	1077+25.00	1081+95.22	R		6.0	470.2							182.5	38.8				138.2	29.4	4.7	289.3		
US 20	WB	1081+95.22	1083+25.00	R	4 to 2	2 to 6	129.8		20.0	15.4	1.2	43.3		62.9	48.4				45.9	35.4	1.3	88.9		
Ramp A	WB	2065+44.21	2077+25.00	R		6.0	1180.8											153.1	686.0	58.1	11.8		474.5	
Ramp A	WB	2065+44.21	2077+25.00	L		4.0	1180.8											153.1	413.3	35.0	11.8		494.2	
Ramp B	EB	3050+50.00	3062+35.22	R		6.0	1185.2											153.6	688.6	58.1	11.9		476.3	
Ramp B	EB	3050+50.00	3061+95.21	L		4.0	1145.2											148.5	400.8	35.0	11.5		479.3	
Ramp C	WB	4049+98.04	4065+85.11	R		6.0	1587.1											205.7	922.1	58.1	15.9		637.8	
Ramp C	WB	4052+26.70	4064+18.66	L		4.0	1192.0											154.5	417.2	35.0	11.9		498.9	
Ramp C	WB	4064+18.66	4065+85.11	L	2.0	2.0	166.5		13.6	8.2	0.8	37.0						21.6	36.8	22.1	1.7	69.7		
Ramp D	EB	5061+94.60	5077+69.92	R		6.0	1575.3											204.2	915.3	58.1	15.8		633.0	
Ramp D	EB	5061+94.60	5063+61.06	L	2.0	2.0	166.5		13.6	8.2	0.8	37.0						21.6	36.8	22.1	1.7	69.7		
Ramp D	EB	5063+61.06	5075+41.26	L		4.0	1180.2											153.0	413.1	35.0	11.8		493.9	
330th Avenue	NB	11037+07.02	11059+90.41	R		8.0	2283.4									775.5	34.0		943.0	41.3	22.8		699.4	
330th Avenue	NB	11059+90.41	11061+65.84	R	2.0	6.0	175.4		14.3	8.2	0.9	39.0		48.1	27.4			22.7	36.8	21.0	1.8	53.7		
330th Avenue	SB	11037+07.02	11059+90.41	L		8.0	2283.4									775.5	34.0		943.0	41.3	22.8		699.4	
330th Avenue	SB	11059+90.41	11062+13.26	L	2.0	6.0	222.9		18.2	8.2	1.1	49.5		61.2	27.4			28.9	46.8	21.0	2.2	68.3		
330th Avenue	NB	11061+65.84	11062+33.26	R	11 to 9.6	0.0	67.4					77.2						12.9			0.7			
332nd Avenue	SB	11065+46.17	11066+13.59	R	9.6 to 11	0.0	67.4					77.2						12.9			0.7			
332nd Avenue	NB	11065+66.17	11067+90.41	R	2.0	6.0	224.2		18.3	8.2	1.1	49.8		61.5	27.4			29.1	47.1	21.0	2.2	68.7		
332nd Avenue	NB	11067+90.41	11080+50.00	R		8.0	1259.6									427.8	34.0		520.2	41.3	12.6		385.8	
332nd Avenue	NB	11080+50.00	11081+38.31	R		8 to 2	88.3									30.0	34.0		36.5	41.3	0.9		27.0	
332nd Avenue	SB	11066+13.59	11067+90.41	L	2.0	6.0	176.8		14.4	8.2	0.9	39.3		48.5	27.4			22.9	37.1	21.0	1.8	54.2		
332nd Avenue	SB	11067+90.41	11081+95.52	L		8.0	1405.1									477.2	34.0		580.3	41.3	14.1		430.4	
332nd Avenue	SB	11081+95.52	11082+51.85	L		8 to 2	56.3									19.1	34.0		23.3	41.3	0.6		17.3	
Industrial Pkwy	WB	21049+14.47	21053+69.86	L		8.0	455.4									154.7	34.0		188.1	41.3	4.6		139.5	
221st Street	EB	31053+93.86	31094+91.50	R		4.0	4097.6									796.8	19.4		937.9	22.9	41.0		1350.7	
221st Street	WB	31053+93.86	31094+91.50	L		4.0	4097.6									796.8	19.4		937.9	22.9	41.0		1350.7	
Field of Dreams	EB	51086+40.40	51087+03.52	R		0 to 5	63.1									10.8	17.0		11.0	17.5	0.6		19.3	