

Technical Advisory Group Recommendation

Meeting Date: 5/16/2017

RECOMMENDATION FOR ACTION:

The Technical Advisory Group have reviewed and recommends approval of the following Contract Action(s).

SUMMARY OF CONTRACTING ACTION:

Per the contract review and approval procedures, Section 5.C(2), that were adopted by the Diversion Authority on November 10, 2016, the Owner’s Program Management Consultant (PMC) or Engineer of Record (EOR) shall submit a construction Change Order request to the Technical Advisory Group. The Technical Advisory Group shall review the Change Order request during its next regular meeting after receiving the Change Order request, and make a recommendation as to approval or denial of the Change Order request.

The Owner’s Representative has reviewed and recommends the following Contract Action(s):

Description	Budget Estimate (\$)
Industrial Builders, Inc.	
<i>Change Order #6 (Asphalt Paving and Other Items)</i>	<i>\$55,605.75</i>
WP-42F.1N, 2 nd St Floodwall North of Pump Station – Asphalt Paving, BNSF Railroad Ties, Floodwall Cap, Traffic Control, Additional Differing Subsurface Conditions, and Balance Quantities	

Summary of Contracting History and Current Contract Action:

Original Agreement or Amendment	Previous Project Cost	Budget (\$) Change	Revised Project Cost	Project Start	Project Completion	Comments
Original Contract	0.00	12,969,699.05	12,969,699.05	25-Apr-16	1-Jul-17	Contract Award recommended to lowest responsive bidder, Industrial Builders, Inc.
Change Order No. 1	12,969,699.05	8,122.00	12,977,821.05	25-Apr-16	1-Jul-17	Water Main Insulation, Floodwall Caps Modification
Change Order No. 2	12,977,821.05	206,380.00	13,184,201.05	25-Apr-16	1-Jul-17	Differing Subsurface Conditions, Fire Hydrants and Vault 3A Relocation, Temporary Water for Area Businesses, Howard Johnson Foundation Removal, & BNSF Project Delay
Change Order No. 3	13,184,201.05	(22,030.50)	13,162,170.55	25-Apr-16	1-Jul-17	Plansheet Updates, Retaining Wall Column, 6" Impressioned Concrete, Additional Bridge Lighting
Change Order No. 4	13,162,170.55	8,648.00	13,170,818.55	25-Apr-16	1-Jul-17	8" Plaza Concrete, Additional Pull Boxes, Milestone Changes
Change Order No. 5	13,170,818.55	127,282.10	13,298,100.65	25-Apr-16	1-Jul-17	Temporary Striping and Quantity Balancing
Change Order No. 6	13,298,100.65	55,605.75	13,353,706.40	25-Apr-16	1-Jul-17	Asphalt Paving, BNSF Railroad Ties, Balance Quantities, and other items

DISCUSSION

Change Order No. 6 adds and modifies scope for an increase to the Contract Price of **\$55,605.75**. The Change Order consists of the following items:

1. **Work Change Directive No. 1** – This Work Change Directive was previously reviewed and approved by the Technical Advisory Group, the Co-Executive Directors, and the Finance Committee on May 11, 2017. Its total increase to the Contract Price is **\$39,360.05** and consists of the following items:
 - a. Provide new asphalt paving in the BNSF right-of-way to comply with BNSF permit requirements. Also provide new asphalt paving adjacent to the MEPS building as agreed in the final purchase agreement with that property owner. Both additions were changes after bidding and award of this project.
 - b. Furnish and install railroad ties at the edge of the new asphalt paving in the BNSF right-of-way. This is also required by BNSF as a condition of their permit.
 - c. Provide traffic control to facilitate a partial lane closure for installation of sidewalk. The sidewalk work was originally planned for fall of 2016 when 2nd St N was closed. Delay in receipt of the BNSF permit pushed this work to 2017. Since 2nd St N is now open, the traffic control is necessary for the contractor to safely install the sidewalk.
2. **Revised Tapered Floodwall Cap** – Increase of **\$2,545** to change the floodwall caps for transitioning from the style installed on the 2nd St Pump Station project to ensure aesthetic consistency of the 2nd St flood control projects. HMG has reviewed the proposed pricing and finds it reasonable. There is no schedule change associated with this item.

3. **Unit Rate Bid Item Quantity Adjustments** – This item establishes the final balancing for nine unit rate bid items associated with underground utilities by adjusting the contracted quantities to match the installed quantities as verified by HMG field staff.

This item also increases the lump sum value of the differing subsurface conditions bid item to account for the final amount of unsuitable excavation material that had to be removed from the site. Costs for this item were incurred on a Time & Materials basis. The process involved the Contractor notifying HMG or CH2M after encountering material suspected to be unsuitable. HMG and/or the Owner’s testing firm (Terracon) would then confirm that the material must be removed and the Resident Project Representative (HMG) would observe the effort. The Contractor would then submit documentation of the hours, equipment, and fees to accomplish the work, which CH2M would validate and process for payment. In this case, the final amount of effort to remove unsuitable material was \$19,351.20 more than the previous lump sum budget of \$200,000.

The net change for both unit rate quantity adjustments and the increase to the lump sum differing subsurface conditions bid item is an increase of **\$13,700.70**.

ATTACHMENT(S):

Draft Change Order No. 6
 Contractor pricing for Floodwall Cap
 Approved Work Change Directive No. 1

Submitted by:



 Tyler Smith, P.E.
 Construction Services Manager
 CH2M – Metro Flood Diversion Project

5/16/2017

 Date

 Nathan Boerboom, Diversion Authority Project
 Manager
 Concur: May 16, 2017 Non-Concur: _____

 April Walker, Fargo City Engineer
 Concur: May 17, 2017 Non-Concur: _____

 Mark Bittner, Fargo Director of Engineering
 Concur: May 16, 2017 Non-Concur: _____

 Jason Benson, Cass County Engineer
 Concur: May 16, 2017 Non-Concur: _____

 David Overbo, Clay County Engineer
 Concur: May 16, 2017 Non-Concur: _____

 Robert Zimmerman, Moorhead City Engineer
 Concur: May 16, 2017 Non-Concur: _____



Change Order No. 06

Date of Issuance:	<u>5/25/2017</u>	Effective Date:	<u>5/25/2017</u>
Owner:	<u>Metro Flood Diversion Authority</u>	Owner's Contract No.:	<u>WP-42F.1N</u>
Owner's Representative:	<u>CH2M HILL Engineers, Inc.</u>	Owner's Representative Project No.:	<u>435534</u>
Contractor:	<u>Industrial Builders, Inc.</u>	Contractor's Project No.:	
Engineer:	<u>Houston-Moore Group, LLC</u>	Work Package No.:	<u>WP-42F.1N</u>
Project:	<u>Fargo-Moorhead Area Diversion</u>	Contract Name:	<u>Flood Control, 2nd Street North, North of Pump Station</u>

The Contract is modified as follows upon execution of this Change Order:

Description:

1. INCORPORATE WORK CHANGE DIRECTIVE NO. 1

Incorporate all work specified in Work Change Directive No. 1 (asphalt paving, railroad ties, and traffic control), plus replacement plan sheets C-060-5 and C-060-6, into the Contract Documents. This increases the Contract Price by a total of \$39,360.05 as shown in the attached Change Order 6 Unit Price Schedule dated 5/25/17. There is no change to the Contract Times for the work included in this Work Change Directive.

2. REVISED TAPERED FLOODWALL CAP

Add lump sum bid item 0147, *F&I Tapered Floodwall Cap* to provide for transitioning the floodwall caps on this project to the floodwall caps installed on the WP42A2 project. This increases the Contract Price by \$2,545.00 as shown in the attached Change Order 6 Unit Price Schedule dated 5/25/2017. There is no change to the Contract Times for this item.

3. BALANCE FINAL QUANTITIES

Adjust the quantities of nine unit rate bid items to match the actual installed quantities as verified by the Engineer. Also change the lump sum amount for bid item 0138, *Differing Subsurface Conditions* to account for the final amount of unsuitable material that had to be removed from the site. The net change to the Contract Price is an increase of \$13,700.70 as shown in the attached Change Order 6 Unit Price Schedule dated 5/25/17. There is no change to the Contract Times for these adjustments.

Attachments:

Change Order 6 Unit Price Schedule dated 5/25/2017
 Replacement plan sheets C-060-5 and C-060-6 dated 4/24/2017
 Approved Work Change Directive No. 1
 Contractor Pricing for Floodwall Cap, Railroad Ties, and Traffic Control

CHANGE IN CONTRACT PRICE	CHANGE IN CONTRACT TIMES
Original Contract Price: 12,969,699.05	Original Contract Times: Milestone 1: <u>October 15, 2016</u> Milestone 2: <u>20 calendar days after road closure</u> Substantial Completion: <u>October 15, 2016</u> Ready for Final Payment: <u>July 1, 2017</u>
[Increase] [Decrease] from previously approved Change Orders Nos. 1 thru 5: 328,401.60	[Increase] [Decrease] from previously approved Change Orders Nos. 1 thru 5: Milestone 1: <u>November 23, 2016</u> Milestone 2: Substantial Completion: <u>November 23, 2016</u> Ready for Final Payment:
Contract Price prior to this Change Order: 13,298,100.65	Contract Times prior to this Change Order: Milestone 1: <u>November 23, 2016</u> Milestone 2: <u>20 calendar days after road closure</u> Substantial Completion: <u>November 23, 2016</u> Ready for Final Payment: <u>July 1, 2016</u>
[Increase] [Decrease] of this Change Order: 55,605.75	[Increase] [Decrease] of this Change Order: Milestone 1: Milestone 2: Substantial Completion: Ready for Final Payment:
Contract Price incorporating this Change Order: 13,353,706.40	Contract Times with all approved Change Orders: Milestone 1: <u>November 23, 2016</u> Milestone 2: <u>20 calendar days after road closure</u> Substantial Completion: <u>November 23, 2016</u> Ready for Final Payment: <u>July 1, 2016</u>

RECOMMENDED:	ACCEPTED:	ACCEPTED:
By: _____	By: _____	By: _____
Owner's Representative (Authorized Signature)	Owner (Authorized Signature)	Contractor (Authorized Signature)
Name: <u>Tyler Smith, P.E.</u>	Name: <u>Tim Mahoney</u>	Name: <u>Kerry Meske</u>
Title: <u>Construction Manager</u>	Title: <u>Chairman</u>	Title: <u>Project Manager</u>
Date: _____	Date: _____	Date: _____

WP-42F.1N
2nd Street/Downtown Area - In-Town Levees

Change Order 6 Unit Price Schedule
 DATE: 5/25/2017



WP-42F.1N - 2nd Street/Downtown Area - In-Town Levees											
ITEM	DESCRIPTION	UNIT	Current Budget (Through Change Order 5)			Net Change			New Budget		
			QUANTITY	UNIT PRICE	AMOUNT	QUANTITY	UNIT PRICE	AMOUNT	QUANTITY	UNIT PRICE	AMOUNT
0001	Remove Sanitary Manhole	EA	3	\$ 735.00	\$ 2,205.00			\$ -	3	735.00	\$ 2,205.00
0002	F&I Sanitary Manhole 4' Dia Reinf Conc	EA	3	\$ 7,035.00	\$ 21,105.00			\$ -	3	7,035.00	\$ 21,105.00
0003	F&I Sanitary Manhole w/Ext Drop 4' Dia Reinf Conc	EA	1	\$ 10,290.00	\$ 10,290.00			\$ -	1	10,290.00	\$ 10,290.00
0004	Connect Sewer Service Option C	EA	2	\$ 1,260.00	\$ 2,520.00			\$ -	2	1,260.00	\$ 2,520.00
0005	F&I Sanitary Pipe w/GB SDR 26 - 6" Dia PVC	LF	119	\$ 115.00	\$ 13,685.00			\$ -	119	115.00	\$ 13,685.00
0006	F&I Sanitary Pipe w/GB SDR 26 - 12" Dia PVC	LF	243	\$ 170.00	\$ 41,310.00			\$ -	243	170.00	\$ 41,310.00
0007	F&I Sanitary Pipe w/GB SDR 35 - 12" Dia PVC	LF	304	\$ 130.00	\$ 39,520.00			\$ -	304	130.00	\$ 39,520.00
0008	F&I DI Force Main - Fittings	LB	6280	\$ 6.30	\$ 39,564.00			\$ -	6280	6.30	\$ 39,564.00
0009	F&I Clean-out Manhole 5' Dia Reinf Conc	EA	1	\$ 54,000.00	\$ 54,000.00			\$ -	1	54,000.00	\$ 54,000.00
0010	F&I Manhole Type E Reinf Conc	EA	1	\$ 65,000.00	\$ 65,000.00			\$ -	1	65,000.00	\$ 65,000.00
0011	F&I Valve 30" Dia - Plug Valve	EA	1	\$ 54,000.00	\$ 54,000.00			\$ -	1	54,000.00	\$ 54,000.00
0012	F&I Pipe w/GB DR 25 - 30" Dia PVC	LF	1072	\$ 285.00	\$ 305,520.00	(5)		\$ (1,425.00)	1067	285.00	\$ 304,095.00
0013	Remove Sanitary Pipe All Sizes All Types	LF	751	\$ 11.00	\$ 8,261.00	(16)		\$ (176.00)	735	11.00	\$ 8,085.00
0014	Plug Sanitary Pipe 8" Diameter	EA	2	\$ 340.00	\$ 680.00	(2)		\$ (680.00)	0	340.00	\$ -
0015	Plug Sanitary Pipe 10" Diameter	EA	2	\$ 420.00	\$ 840.00	4		\$ 1,680.00	6	420.00	\$ 2,520.00
0016	Plug Sanitary Pipe 12" Diameter	EA	2	\$ 525.00	\$ 1,050.00			\$ -	2	525.00	\$ 1,050.00
0017	F&I 5" Hydrant	EA	3	\$ 8,505.00	\$ 25,515.00			\$ -	3	8,505.00	\$ 25,515.00
0018	Remove Hydrant	EA	2	\$ 767.00	\$ 1,534.00			\$ -	2	767.00	\$ 1,534.00
0019	F&I Watermain Pipe w/GB C900 DR 18 - 6" Dia PVC	LF	71	\$ 88.00	\$ 6,248.00	(20)		\$ (1,760.00)	51	88.00	\$ 4,488.00
0020	F&I Watermain Pipe w/GB C900 DR 18 - 8" Dia PVC	LF	40	\$ 92.00	\$ 3,680.00			\$ -	40	92.00	\$ 3,680.00
0021	F&I Watermain Pipe w/GB C900 DR 18 - 10" Dia PVC	LF	1386	\$ 103.00	\$ 142,758.00			\$ -	1386	103.00	\$ 142,758.00
0022	F&I Gate Valve 6" Dia	EA	5	\$ 2,060.00	\$ 10,300.00			\$ -	5	2,060.00	\$ 10,300.00

WP-42F.1N - 2nd Street/Downtown Area - In-Town Levees											
ITEM	DESCRIPTION	UNIT	Current Budget (Through Change Order 5)			Net Change			New Budget		
			QUANTITY	UNIT PRICE	AMOUNT	QUANTITY	UNIT PRICE	AMOUNT	QUANTITY	UNIT PRICE	AMOUNT
0023	F&I Gate Valve 10" Dia	EA	2	\$ 4,410.00	\$ 8,820.00			\$ -	2	4,410.00	\$ 8,820.00
0024	Remove Watermain Pipe All Sizes All Types	LF	247	\$ 11.00	\$ 2,717.00			\$ -	247	11.00	\$ 2,717.00
0025	Plug Watermain Pipe 6" Diameter	EA	2	\$ 1,345.00	\$ 2,690.00			\$ -	2	1,345.00	\$ 2,690.00
0026	Transfer Water Service	LS	1	\$ 1,680.00	\$ 1,680.00			\$ -	1	1,680.00	\$ 1,680.00
0027	F&I Watermain Fittings Ductile Iron	LBS	3230	\$ 2.10	\$ 6,783.00	575		\$ 1,207.50	3805	2.10	\$ 7,990.50
0028	F&I Storm Manhole 4' Dia Reinf Conc	EA	4	\$ 6,090.00	\$ 24,360.00			\$ -	4	6,090.00	\$ 24,360.00
0029	F&I Storm Manhole 5' Dia Reinf Conc	EA	5	\$ 7,665.00	\$ 38,325.00			\$ -	5	7,665.00	\$ 38,325.00
0030	F&I Storm Manhole 6' Dia Reinf Conc	EA	3	\$ 7,980.00	\$ 23,940.00			\$ -	3	7,980.00	\$ 23,940.00
0031	F&I Storm Manhole 7' Dia Reinf Conc	EA	3	\$ 14,000.00	\$ 42,000.00			\$ -	3	14,000.00	\$ 42,000.00
0032	F&I Inlet - Manhole (MHI) 4' Dia Reinf Conc	EA	1	\$ 3,885.00	\$ 3,885.00			\$ -	1	3,885.00	\$ 3,885.00
0033	F&I Inlet - Single Box (SBI) Reinf Conc	EA	10	\$ 3,255.00	\$ 32,550.00			\$ -	10	3,255.00	\$ 32,550.00
0034	F&I Inlet - Double Box (DBI) Reinf Conc	EA	3	\$ 5,460.00	\$ 16,380.00			\$ -	3	5,460.00	\$ 16,380.00
0035	F&I Inlet - Round Inlet (RDI) Reinf Conc	EA	5	\$ 1,890.00	\$ 9,450.00	(3)		\$ (5,670.00)	2	1,890.00	\$ 3,780.00
0036	Modify East Bridge Inlet	EA	1	\$ 5,670.00	\$ 5,670.00			\$ -	1	\$ 5,670.00	\$ 5,670.00
0037	Remove Storm Manhole	EA	8	\$ 756.00	\$ 6,048.00			\$ -	8	\$ 756.00	\$ 6,048.00
0038	Remove Storm Inlet	EA	18	\$ 640.00	\$ 11,520.00			\$ -	18	\$ 640.00	\$ 11,520.00
0039	Remove Storm Pipe All Sizes All Types	LF	1680	\$ 11.00	\$ 18,480.00			\$ -	1680	\$ 11.00	\$ 18,480.00
0040	F&I Storm Pipe 15" Dia Reinf Conc	LF	278	\$ 59.00	\$ 16,402.00			\$ -	278	\$ 59.00	\$ 16,402.00
0041	F&I Storm Pipe w/GB 15" Dia Reinf Conc	LF	351	\$ 93.00	\$ 32,643.00	6		\$ 558.00	357	\$ 93.00	\$ 33,201.00
0042	F&I Storm Pipe w/GB 18" Dia Reinf Conc	LF	34.000000	\$ 98.00	\$ 3,332.00			\$ -	34	\$ 98.00	\$ 3,332.00
0043	F&I Storm Pipe w/GB 24" Dia Reinf Conc	LF	83	\$ 121.00	\$ 10,043.00			\$ -	83	\$ 121.00	\$ 10,043.00
0044	F&I Storm Pipe w/GB 27" Dia Reinf Conc	LF	383	\$ 153.00	\$ 58,599.00			\$ -	383	\$ 153.00	\$ 58,599.00
0045	F&I Storm Pipe w/GB 36" Dia Reinf Conc	LF	214	\$ 283.00	\$ 60,562.00			\$ -	214	\$ 283.00	\$ 60,562.00
0046	F&I Storm Pipe w/GB 48" Dia Reinf Conc	LF	102	\$ 410.00	\$ 41,820.00	2		\$ 615.00	104	\$ 410.00	\$ 42,435.00
0047	Remove Pavement All Thicknesses All Types	SY	13647	\$ 12.00	\$ 163,764.00			\$ -	13647	\$ 12.00	\$ 163,764.00
0048	Remove Sidewalk All Thicknesses All Types	SY	3528	\$ 7.50	\$ 26,460.00			\$ -	3528	\$ 7.50	\$ 26,460.00

WP-42F.1N - 2nd Street/Downtown Area - In-Town Levees											
ITEM	DESCRIPTION	UNIT	Current Budget (Through Change Order 5)			Net Change			New Budget		
			QUANTITY	UNIT PRICE	AMOUNT	QUANTITY	UNIT PRICE	AMOUNT	QUANTITY	UNIT PRICE	AMOUNT
0049	Remove Gravel Surfacing All Thicknesses All Types	SY	133	\$ 8.00	\$ 1,064.00			\$ -	133	\$ 8.00	\$ 1,064.00
0050	Subgrade Preparation	SY	8933	\$ 5.25	\$ 46,898.25	600		\$ 3,150.00	9533	\$ 5.25	\$ 50,048.25
0051	F&I Woven Geotextile	SY	7607	\$ 3.15	\$ 23,962.05	600		\$ 1,890.00	8207	\$ 3.15	\$ 25,852.05
0052	F&I Class 5 Agg - 6" Thick	SY	958	\$ 13.65	\$ 13,076.70	600		\$ 8,190.00	1558	\$ 13.65	\$ 21,266.70
0053	F&I Class 5 Agg - 8" Thick	SY	1062	\$ 15.75	\$ 16,726.50			\$ -	1062	\$ 15.75	\$ 16,726.50
0054	F&I Class 5 Agg - 12" Thick	SY	5587	\$ 18.90	\$ 105,594.30			\$ -	5587	\$ 18.90	\$ 105,594.30
0055	F&I Edge Drain 4" Dia PVC	LF	2659	\$ 9.50	\$ 25,260.50			\$ -	2659	\$ 9.50	\$ 25,260.50
0056	F&I Curb & Gutter Standard (Type II)	LF	2659	\$ 30.00	\$ 79,770.00			\$ -	2659	\$ 30.00	\$ 79,770.00
0057	F&I Variable Height Curb	LF	36	\$ 57.00	\$ 2,052.00			\$ -	36	\$ 57.00	\$ 2,052.00
0058	Remove Curb & Gutter	LF	2797	\$ 7.35	\$ 20,557.95			\$ -	2797	\$ 7.35	\$ 20,557.95
0059	F&I Pavement 9" Thick Doweled Conc	SY	4650	\$ 88.00	\$ 409,200.00			\$ -	4650	\$ 88.00	\$ 409,200.00
0060	F&I Pavement 11" Thick Doweled Conc	SY	208	\$ 90.00	\$ 18,720.00			\$ -	208	\$ 90.00	\$ 18,720.00
0061	F&I Aggregate for Asph Pavement FAA 43	TON	748	\$ 92.00	\$ 68,816.00	174		\$ 16,008.00	922	\$ 92.00	\$ 84,824.00
0062	F&I Asphalt Cement PG 58-28	GAL	10760	\$ 2.05	\$ 22,058.00	2501		\$ 5,127.05	13261	\$ 2.05	\$ 27,185.05
0063	F&I Sidewalk 4" Thick Reinf Conc	SY	2426	\$ 55.00	\$ 133,430.00			\$ -	2426	\$ 55.00	\$ 133,430.00
0064	F&I Sidewalk 6" Thick Reinf Conc	SY	751	\$ 65.00	\$ 48,815.00			\$ -	751	\$ 65.00	\$ 48,815.00
0065	Temp Construction Entrance	EA	1	\$ 4,200.00	\$ 4,200.00			\$ -	1	\$ 4,200.00	\$ 4,200.00
0066	F&I Impressed 4" Thick Reinf Conc	SY	621	\$ 218.00	\$ 135,378.00			\$ -	621	\$ 218.00	\$ 135,378.00
0067	F&I Driveway 6" Thick Reinf Conc	SY	22	\$ 105.00	\$ 2,310.00			\$ -	22	\$ 105.00	\$ 2,310.00
0068	F&I Det Warn Panels Cast Iron	SF	123	\$ 60.00	\$ 7,380.00			\$ -	123	\$ 60.00	\$ 7,380.00
0069	Reset Sign Assembly	EA	1	\$ 260.00	\$ 260.00			\$ -	1	\$ 260.00	\$ 260.00
0070	F&I Sign Assembly	EA	19	\$ 240.00	\$ 4,560.00			\$ -	19	\$ 240.00	\$ 4,560.00
0071	F&I Engineering Grade	SF	75	\$ 25.00	\$ 1,862.50			\$ -	75	\$ 25.00	\$ 1,862.50
0072	F&I Diamond Grade Cubed	SF	29	\$ 42.00	\$ 1,201.20			\$ -	29	\$ 42.00	\$ 1,201.20
0073	F&I High Intensity Prismatic	SF	18	\$ 37.00	\$ 647.50			\$ -	18	\$ 37.00	\$ 647.50
0074	F&I Grooved Plastic Film Message	SF	224	\$ 37.00	\$ 8,269.50			\$ -	224	\$ 37.00	\$ 8,269.50

WP-42F.1N - 2nd Street/Downtown Area - In-Town Levees											
ITEM	DESCRIPTION	UNIT	Current Budget (Through Change Order 5)			Net Change			New Budget		
			QUANTITY	UNIT PRICE	AMOUNT	QUANTITY	UNIT PRICE	AMOUNT	QUANTITY	UNIT PRICE	AMOUNT
0075	F&I Grooved Plastic Film 4" Wide	LF	2998	\$ 5.70	\$ 17,088.60			\$ -	2998	\$ 5.70	\$ 17,088.60
0076	F&I Grooved Plastic Film 8" Wide	LF	391	\$ 12.00	\$ 4,692.00			\$ -	391	\$ 12.00	\$ 4,692.00
0077	F&I Grooved Contrast Film 7" Wide	LF	723	\$ 11.00	\$ 7,953.00			\$ -	723	\$ 11.00	\$ 7,953.00
0078	F&I Methacrylate 6" Wide	LF	339	\$ 27.00	\$ 9,153.00			\$ -	339	\$ 27.00	\$ 9,153.00
0079	F&I Methacrylate 16" Wide	LF	79	\$ 44.00	\$ 3,476.00			\$ -	79	\$ 44.00	\$ 3,476.00
0080	Traffic Control - Type 2	LS	1	\$ 65,000.00	\$ 65,000.00			\$ -	1	\$ 65,000.00	\$ 65,000.00
0081	4" Special Concrete 1	SY	0	\$ 160.00	\$ -			\$ -	0	\$ 160.00	\$ -
0082	4" Special Concrete 3	SY	22	\$ 400.00	\$ 8,800.00			\$ -	22	\$ 400.00	\$ 8,800.00
0083	6" Special Concrete 1	SY	155	\$ 165.00	\$ 25,575.00			\$ -	155	\$ 165.00	\$ 25,575.00
0084	6" Special Concrete 2	SY	84	\$ 265.00	\$ 22,260.00			\$ -	84	\$ 265.00	\$ 22,260.00
0085	Mobilization	LS	1	\$ 657,665.00	\$ 657,665.00			\$ -	1	\$ 657,665.00	\$ 657,665.00
0086	Temp Fence - Safety	LF	1471	\$ 14.00	\$ 20,594.00			\$ -	1471	\$ 14.00	\$ 20,594.00
0087	Remove Retaining Wall	LS	1	\$ 200,000.00	\$ 200,000.00			\$ -	1	\$ 200,000.00	\$ 200,000.00
0088	Remove Guard Rail	LF	57	\$ 10.00	\$ 570.00			\$ -	57	\$ 10.00	\$ 570.00
0089	Remove Fence All Sizes All Types	LF	579	\$ 10.00	\$ 5,790.00			\$ -	579	\$ 10.00	\$ 5,790.00
0090	F&I Chain Link Fence	LF	985	\$ 16.00	\$ 15,760.00			\$ -	985	\$ 16.00	\$ 15,760.00
0091	Temp Pumping	LS	1	\$ 63,000.00	\$ 63,000.00			\$ -	1	\$ 63,000.00	\$ 63,000.00
0092	Remove Howard Johnson Inn Pool	LS	1	\$ 15,750.00	\$ 15,750.00			\$ -	1	\$ 15,750.00	\$ 15,750.00
0093	Clear & Grub	LS	1	\$ 5,040.00	\$ 5,040.00			\$ -	1	\$ 5,040.00	\$ 5,040.00
0094	Remove Tree	EA	13	\$ 840.00	\$ 10,920.00			\$ -	13	\$ 840.00	\$ 10,920.00
0095	Remove Parking Lot Concrete Bumpers	EA	34	\$ 262.00	\$ 8,908.00			\$ -	34	\$ 262.00	\$ 8,908.00
0096	Silt Fence - Standard	LF	827	\$ 2.65	\$ 2,191.55			\$ -	827	\$ 2.65	\$ 2,191.55
0097	Sediment Control Log 10" to 15" Dia	LF	1406	\$ 3.15	\$ 4,428.90			\$ -	1406	\$ 3.15	\$ 4,428.90
0098	F&I Erosion Control Blanket	SY	301	\$ 2.10	\$ 632.10			\$ -	301	\$ 2.10	\$ 632.10
0099	Inlet Protection - New Inlet	EA	23	\$ 155.00	\$ 3,565.00			\$ -	23	\$ 155.00	\$ 3,565.00
0100	Inlet Protection - Existing Inlet	EA	22	\$ 120.00	\$ 2,640.00			\$ -	22	\$ 120.00	\$ 2,640.00

WP-42F.1N - 2nd Street/Downtown Area - In-Town Levees											
ITEM	DESCRIPTION	UNIT	Current Budget (Through Change Order 5)			Net Change			New Budget		
			QUANTITY	UNIT PRICE	AMOUNT	QUANTITY	UNIT PRICE	AMOUNT	QUANTITY	UNIT PRICE	AMOUNT
0101	Remove Traffic Lighting	LS	1	\$ 6,000.00	\$ 6,000.00			\$ -	1	\$ 6,000.00	\$ 6,000.00
0102	Street Lighting	LS	1	\$ 120,000.00	\$ 120,000.00			\$ -	1	\$ 120,000.00	\$ 120,000.00
0103	Remove Outfall Including Adjacent Concrete Structures	EA	1	\$ 15,750.00	\$ 15,750.00			\$ -	1	\$ 15,750.00	\$ 15,750.00
0104	Remove and Salvage Traffic Signal Equipment - System A (2nd St / 4th Ave N)	LS	1	\$ 6,000.00	\$ 6,000.00			\$ -	1	\$ 6,000.00	\$ 6,000.00
0105	Traffic Signal System "A" (2 St / 4th Ave N)	LS	1	\$ 195,000.00	\$ 195,000.00			\$ -	1	\$ 195,000.00	\$ 195,000.00
0106	Remove and Salvage Traffic Signal Equipment - System "B" (2nd St / 3rd Ave N)	LS	1	\$ 6,000.00	\$ 6,000.00			\$ -	1	\$ 6,000.00	\$ 6,000.00
0107	Remove and Plug BNSF Utility "Diesel Oil Line"	LS	1	\$ 3,045.00	\$ 3,045.00			\$ -	1	\$ 3,045.00	\$ 3,045.00
0108	Remove and Plug BNSF Utility "Diesel Water Line"	LS	1	\$ 3,045.00	\$ 3,045.00			\$ -	1	\$ 3,045.00	\$ 3,045.00
0109	Remove and Plug BNSF Utility "Watermain"	LS	1	\$ 3,045.00	\$ 3,045.00			\$ -	1	\$ 3,045.00	\$ 3,045.00
0110	Jersey Barrier Formed	LF	180	\$ 320.00	\$ 57,600.00			\$ -	180	\$ 320.00	\$ 57,600.00
0111	F&I Sheet Piling - Steel	SF	472	\$ 50.00	\$ 23,600.00			\$ -	472	\$ 50.00	\$ 23,600.00
0112	Topsoil - Strip	CY	365	\$ 4.20	\$ 1,533.00			\$ -	365	\$ 4.20	\$ 1,533.00
0113	Topsoil - Import	CY	1810	\$ 42.00	\$ 76,020.00			\$ -	1810	\$ 42.00	\$ 76,020.00
0114	Topsoil - Spread	CY	365	\$ 5.25	\$ 1,916.25			\$ -	365	\$ 5.25	\$ 1,916.25
0115	Embankment	CY	2871	\$ 10.00	\$ 28,710.00			\$ -	2871	\$ 10.00	\$ 28,710.00
0116	Embankment Import	CY	16475	\$ 17.85	\$ 294,078.75			\$ -	16475	\$ 17.85	\$ 294,078.75
0117	Subcut	CY	2770	\$ 15.00	\$ 41,550.00			\$ -	2770	\$ 15.00	\$ 41,550.00
0118	Excavation	CY	2871	\$ 6.30	\$ 18,087.30			\$ -	2871	\$ 6.30	\$ 18,087.30
0119	Mulching Type 1 - Hydro	SY	18687	\$ 0.37	\$ 6,914.19			\$ -	18687	\$ 0.37	\$ 6,914.19
0120	Seeding Type B	SY	18687	\$ 0.32	\$ 5,979.84			\$ -	18687	\$ 0.32	\$ 5,979.84
0121	Overseeding	SY	18687	\$ 0.09	\$ 1,681.83			\$ -	18687	\$ 0.09	\$ 1,681.83
0122	Weed Control Type B	SY	18687	\$ 0.07	\$ 1,308.09			\$ -	18687	\$ 0.07	\$ 1,308.09
0123	F&I Retaining Wall Reinf Bars - Steel	LB	100899	\$ 1.30	\$ 131,168.70			\$ -	100899	\$ 1.30	\$ 131,168.70
0124	F&I Retaining Wall Reinf Bars - Epoxy Coated Steel	LB	126896	\$ 1.50	\$ 190,344.00			\$ -	126896	\$ 1.50	\$ 190,344.00
0125	F&I Retaining Wall - Structural Conc	CY	1125	\$ 1,100.00	\$ 1,237,500.00			\$ -	1125	\$ 1,100.00	\$ 1,237,500.00
0126	F&I Handrail/Ornamental Fence	LF	425	\$ 300.00	\$ 127,500.00			\$ -	425	\$ 300.00	\$ 127,500.00

WP-42F.1N - 2nd Street/Downtown Area - In-Town Levees											
ITEM	DESCRIPTION	UNIT	Current Budget (Through Change Order 5)			Net Change			New Budget		
			QUANTITY	UNIT PRICE	AMOUNT	QUANTITY	UNIT PRICE	AMOUNT	QUANTITY	UNIT PRICE	AMOUNT
0127	Lean Mix Backfill	CY	222.0	\$ 300.00	\$ 66,600.00			\$ -	222.00	\$ 300.00	\$ 66,600.00
0128	Retaining Wall Drainage	LS	1	\$ 50,000.00	\$ 50,000.00			\$ -	1	\$ 50,000.00	\$ 50,000.00
0129	Retaining Wall Shoring	LS	1.0	\$ 350,000.00	\$ 350,000.00			\$ -	1.00	\$ 350,000.00	\$ 350,000.00
0130	Removable Floodwall	SF	369	\$ 140.00	\$ 51,660.00			\$ -	369	\$ 140.00	\$ 51,660.00
0131	F&I Floodwall Reinf Bars - Steel	LB	549137	\$ 1.30	\$ 713,878.10			\$ -	549137	\$ 1.30	\$ 713,878.10
0132	F&I Floodwall Reinf Bars - Epoxy Coated Steel	LB	211746	\$ 1.50	\$ 317,619.00			\$ -	211746	\$ 1.50	\$ 317,619.00
0133	F&I Floodwall - Structural Conc	CY	4325	\$ 1,060.00	\$ 4,584,500.00			\$ -	4325	\$ 1,060.00	\$ 4,584,500.00
0134	Concrete Surface Stain	LS	1	\$ 325,000.00	\$ 325,000.00			\$ -	1	\$ 325,000.00	\$ 325,000.00
0135	BNSF Bridge Modifications	LS	1	\$ 85,000.00	\$ 85,000.00			\$ -	1	\$ 85,000.00	\$ 85,000.00
0136	F&I 4" Watermain Insulation	SY	20	\$ 55.00	\$ 1,100.00			\$ -	20	\$ 55.00	\$ 1,100.00
0137	F&I Revised Floodwall Caps	LS	1	\$ 7,572.00	\$ 7,572.00			\$ -	1	\$ 7,572.00	\$ 7,572.00
0138	Differing Subsurface Conditions	LS	1	\$ 200,000.00	\$ 200,000.00		\$ 19,351.20	\$ 19,351.20	1	\$ 219,351.20	\$ 219,351.20
0139	Temporary Water Service	LS	1	\$ 1,980.00	\$ 1,980.00			\$ -	1	\$ 1,980.00	\$ 1,980.00
0140	Howard Johnson Foundation Removal	LS	1	\$ 4,400.00	\$ 4,400.00			\$ -	1	\$ 4,400.00	\$ 4,400.00
0141	F&I Impressed 6" Thick Reinf Conc	SY	25	\$ 269.50	\$ 6,737.50			\$ -	25	\$ 269.50	\$ 6,737.50
0142	Additional Bridge Lighting	LS	1	\$ 5,967.00	\$ 5,967.00			\$ -	1	\$ 5,967.00	\$ 5,967.00
0143	F&I Sidewalk 8" Thick Reinf Conc	SY	90	\$ 112.20	\$ 10,098.00			\$ -	90	\$ 112.20	\$ 10,098.00
0144	F&I Pull Box	EA	4	\$ 1,100.00	\$ 4,400.00			\$ -	4	\$ 1,100.00	\$ 4,400.00
0145	Winter Suspension Striping	LS	1	\$ 6,182.00	\$ 6,182.00			\$ -	1	\$ 6,182.00	\$ 6,182.00
0146	F&I Railroad Ties - 8"x12"	LS			\$ -	1	\$ 1,395.00	\$ 1,395.00	1	\$ 1,395.00	\$ 1,395.00
0147	F&I Tapered Floodwall Cap	LS			\$ -	1	\$ 2,545.00	\$ 2,545.00	1	\$ 2,545.00	\$ 2,545.00
0148	Sidewalk Traffic Control	LS			\$ -	1	\$ 3,600.00	\$ 3,600.00	1	\$ 3,600.00	\$ 3,600.00
WP-42F.1N - TOTAL AMOUNT			CURRENT BUDGET		\$ 13,298,100.65	NET CHANGE		\$ 55,605.75	NEW BUDGET		\$ 13,353,706.40



WORK CHANGE DIRECTIVE

01

TO: Industrial Builders, Inc. (Kerry Meske) PROJECT NO.: WP-42F.1N
PROJECT: Flood Control - 2nd Street North, North of Pump Station
OWNER: Metro Flood Diversion Authority
ENGINEER: Houston Moore Group
OWNER'S REPRESENTATIVE: CH2M

DESCRIPTION OF WORK:

- 1. Provide new asphalt pavement along the BNSF right-of-way to match the existing conditions prior to construction, and east of the MEPS building. Reference attached plan sheets and table showing quantity changes for the applicable unit price bid items.
2. Furnish and install railroad ties on the north edge of the new asphalt pavement along the BNSF right-of-way shown above. Reference attached plan sheets and table showing the anticipated new LS bid item for this work.
3. Provide traffic control to facilitate sidewalk installation at the base of the retaining wall that was postponed from last year.

REASON FOR CHANGE(S):

- 1. Both asphalt requirements were changes after the project was designed and bid. BNSF required the pavement along their right-of-way during the BNSF permit period. The area adjacent to MEPS was originally expected to be restored as green space; however, the final purchase agreement with the property owner resulted in a change to pavement.
2. The railroad ties are associated with the pavement required by BNSF as discussed above.
3. Delay from the BNSF permit process caused the sidewalk work to be pushed from 2016 (when 2nd St was closed) to 2017. Since 2nd St is now open to vehicular traffic, the contractor requires a partial road closure to safely install the sidewalk.

ATTACHMENTS (List Supporting Documents):

- 1. Table showing anticipated unit price schedule cost changes.
2. Replacement sheets C-060-5 and C-060-6.
3. IBI, Inc. price proposal for traffic control.

DESIGN IMPACT (List Impacts):

Is the described change outside of the design parameters? [] Yes / [x] No


If yes, DOR and USACE signoff are required and documented below:


Randy Engelstad P.E. Designer of Record Date [Name] USACE PM Date

It is understood that this Work Change Directive will not change the Contract Price or Times, but is evidence that the parties expect a Change Order to be subsequently issued reflecting the changes.

Recommended by:

Ordered by:

Owner's Representative

Tyler Smith, P.E.
Construction Services Manager
Date 5/9/17

Owner

Mike Redinger/Robert Wilson
Co-Executive Director
Date 5/10/17

Copy: Owner
Designer of Record
USACE
Owner's Representative

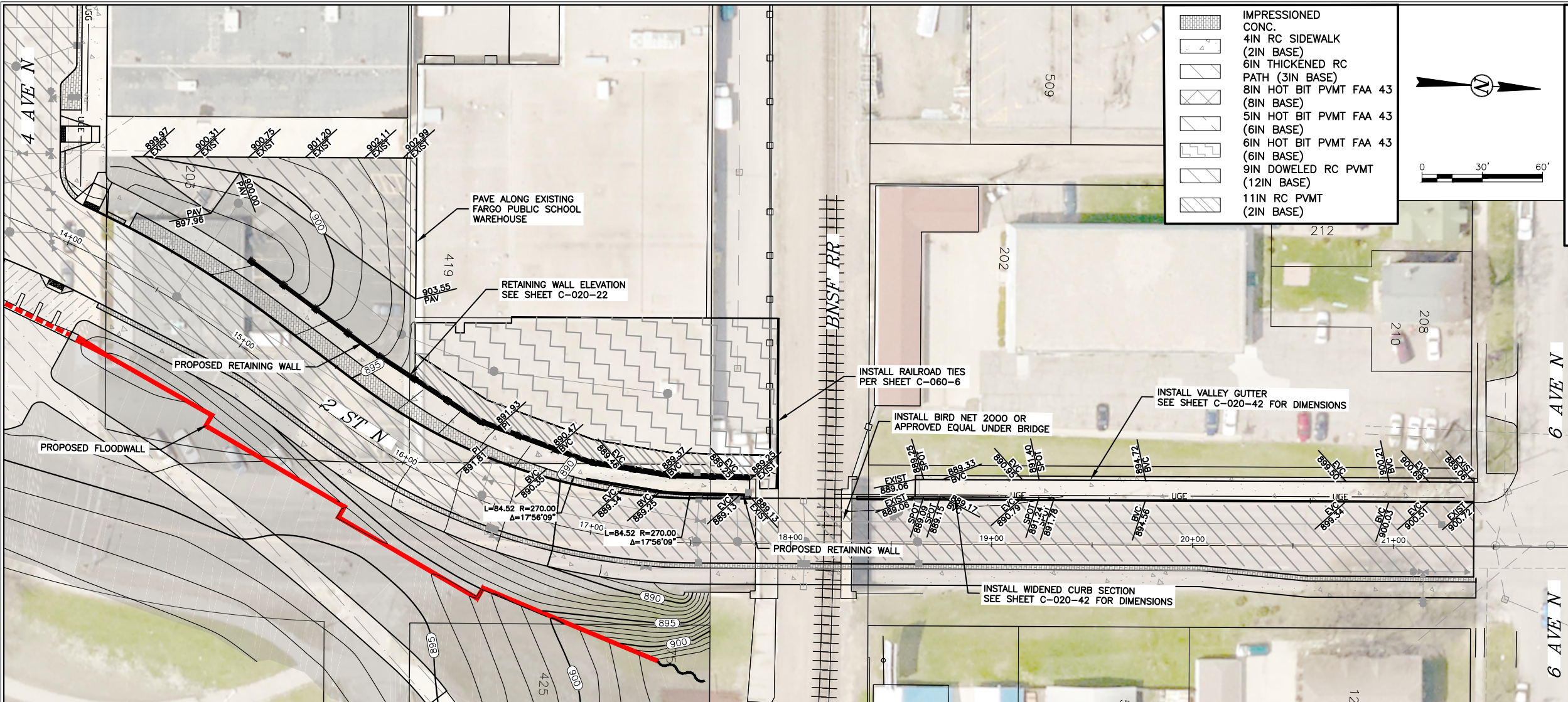
WP-42F.1N

Work Change Directive 1

The following table lists the expected quantity changes and new Lump Sum bid items associated with the work covered by WCD-01. These will be finalized and included in a future Change Order.

Item	Description	Unit	Quantity Change	Unit Rate	Increase Amount
0050	Subgrade Preparation	SY	600	\$5.25	\$3,150.00
0051	F&I Woven Geotextile	SY	600	\$3.15	\$1,890.00
0052	F&I Class 5 Agg - 6" Thick	SY	600	\$13.65	\$8,190.00
0061	F&I Aggregate for Asph Pavement FAA 43	TON	174	\$92.00	\$16,008.00
0062	F&I Asphalt Cement PG 58-28	GAL	2,501	\$2.05	\$5,127.05
0146	F&I Railroad Ties - 8"x12"	LS	1	\$1,395.00	\$1,395.00
0148	Sidewalk Traffic Control	LS	1	\$3,600.00	\$3,600.00
				Total Anticipated Increase	\$39,360.05

05/02/17 06:26:17PM H:\Fargo\JBN\7400\7438\12_7438_009\006-In-Town Levels Phase 1\CAD\2nd St N\WP42F.1.N\95% Plans\060_PAVING PLAN AND PROFILE (SIDEWALK) (CO X).dwg

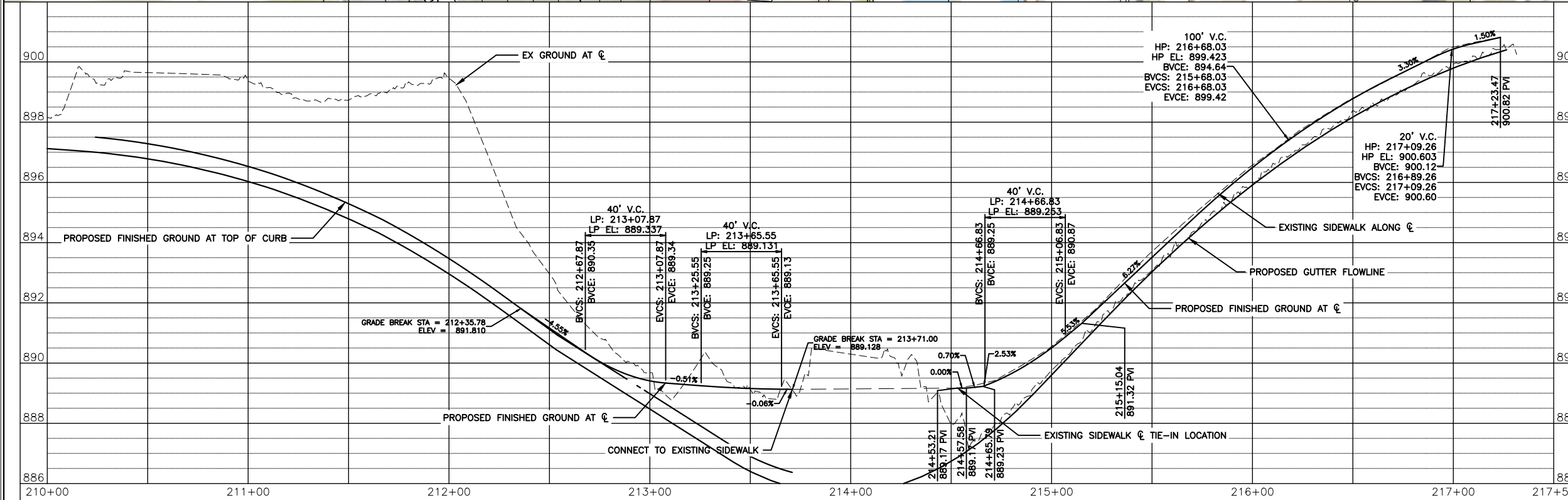


This document was originally issued and sealed by Randy G. Engelstad Registration Number PE-6676 on 4-24-17 and the original document is stored at CH2M Hill Engineering Inc., Fargo, N.D.

ELEVATION DATUM (VERTICAL CONTROL)
NAVD 88
COORDINATE SYSTEM (HORIZONTAL CONTROL)
NAD 83 (1983)
FARGO GROUND - US SURVEY FEET
GEOID03

HMG
HOUSTON - MOORE GROUP

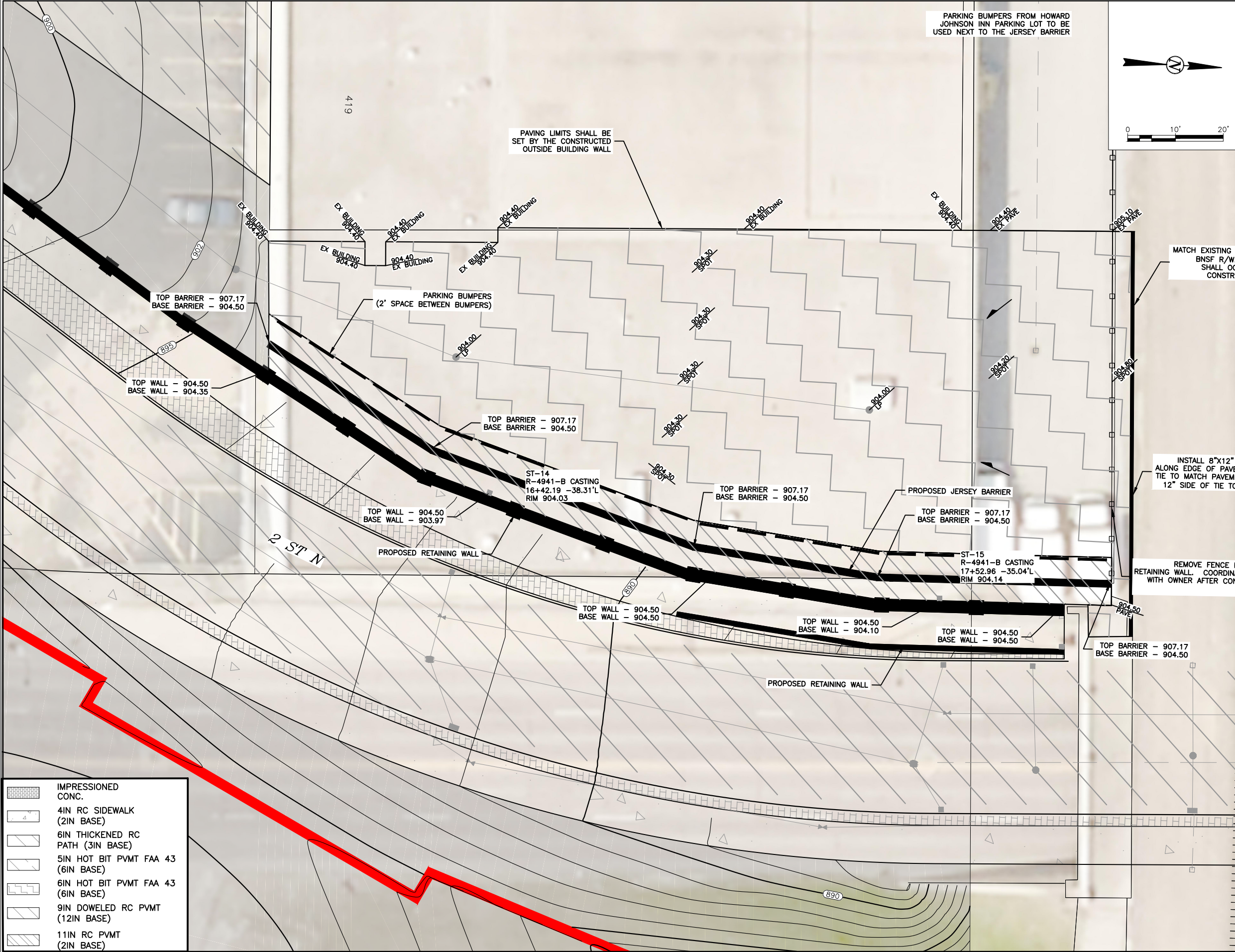
2ND STREET/DOWNTOWN - IN-TOWN LEVELS
2ND STREET N FLOODWALL
RED RIVER OF THE NORTH RIVER BASIN
FARGO-MOORHEAD FLOOD RISK MANAGEMENT
CASS COUNTY, NORTH DAKOTA
PAVING PLAN AND PROFILE - SIDEWALK



DATE:	4-15-16
REVISED:	10-13-16
REVISED:	4-24-17
REVISED:	
RECORD:	
FILE NAME:	
PROJECT No.	WP-42F.1.N
DRAWN BY:	BAB
CHECKED BY:	JTL, RGE
PROJ. MANAGER:	CGT
PROJ. ENGINEER:	

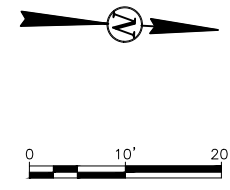
C-060-5

05/02/17 06:27:22PM H:\Fargo\JBN\7400\7438\12_7438_009\006-In-Town Levels Phase 1\CAD\2nd St N_WP42F.1.N\95% Plans\060_PAVING PLAN AND PROFILE (FARGO PUBLIC SCHOOL)-CO 4-11-17.dwg



PARKING BUMPERS FROM HOWARD JOHNSON INN PARKING LOT TO BE USED NEXT TO THE JERSEY BARRIER

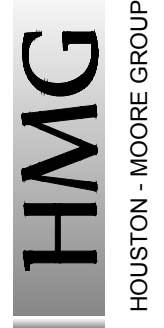
PAVING LIMITS SHALL BE SET BY THE CONSTRUCTED OUTSIDE BUILDING WALL



This document was originally issued and sealed by Randy G. Engelstad Registration Number PE-6676 on 4-24-17 and the original document is stored at CH2M Hill Engineering Inc., Fargo, N.D.

COORDINATE SYSTEM (HORIZONTAL CONTROL)
NAD 83 (1986)
FARGO GROUND - US SURVEY FEET

ELEVATION DATUM (VERTICAL CONTROL)
NAVD 83
GEOID03



2ND STREET/DOWNTOWN - IN-TOWN LEVELS
2ND STREET N FLOODWALL
RED RIVER OF THE NORTH RIVER BASIN
FARGO-MOORHEAD FLOOD RISK MANAGEMENT
CASS COUNTY, NORTH DAKOTA
PAVING PLAN - DRIVEWAY

DATE:	4-15-16
REVISED:	6-20-16
REVISED:	4-24-17
REVISED:	
RECORD:	
FILE NAME:	
PROJECT No.	WP-42F.1.N
DRAWN BY:	BAB
CHECKED BY:	JTL, RGE
PROJ. MANAGER:	CGT
PROJ. ENGINEER:	

- IMPRESSED CONC.
- 4IN RC SIDEWALK (2IN BASE)
- 6IN THICKENED RC PATH (3IN BASE)
- 5IN HOT BIT PVMT FAA 43 (6IN BASE)
- 6IN HOT BIT PVMT FAA 43 (6IN BASE)
- 9IN DOWELED RC PVMT (12IN BASE)
- 11IN RC PVMT (2IN BASE)

C-060-6

CHANGE ORDER REQUEST

Industrial Builders, Inc.
16169 - 2nd Street North Floodwall WP-42F.1N

DATE: 04/27/2017

PCO#: 9

To: Randy Engelstad
Houston Engineering, Inc.
1401 21st Ave. North
Fargo, ND 58102
Phone: 701-237-5065
Fax:
Email: rengelstad@houstoneng.com
CC:

From: Kerry M. Meske
Industrial Builders, Inc.
PO Box 406
Fargo, ND 58107-0406
Phone: 701-282-4977
Fax:
Email: kmeske@industrialbuilders.com

Below is the detail for our proposal to complete the following changes in contract work:

PCO: Transition Floodwall Cap

- Proposed Scope of Work: Remove and replace one 2'-7 1/4" long floodwall cap per HMG's Preliminary Sheet C-020-16A.

PCO: One Lane Traffic Control

- Proposed Scope of Work: Furnish and install traffic control per attached drawing to completion of all remaining work that impedes upon 2nd Street North. The closure is based on a three-week duration. Flaggers are not included.

PCO: Railroad Ties (REVISED)

Proposed Scope of Work: Furnish and install 7 each - 8" x 12" x 12' ties.

PCO Item	Status	Change (in Days)	Quantity	UM	Unit Price	Amount
1: Transition Floodwall Cap	Initiated	None	1	LS	\$2,545.00	\$2,545.00
2: One Lane Traffic Control	Initiated	None	1	LS	\$3,600.00	\$3,600.00
3: Railroad Ties (REVISED)	Initiated	None	1	LS	\$1,395.00	\$1,395.00
Total						\$7,540.00

Notes:

Submitted By:

Approved By:


Kerry M. Meske
Industrial Builders, Inc.
04/27/2017
Date

Randy Engelstad
Houston Engineering, Inc.
Date



Fargo Office
64 4th Street North
Suite 300
Fargo ND 58103
Tel 701-566-5470
Fax 701-634-9954

May 25, 2017

Metro Flood Diversion Authority
Attention: Tim Mahoney, Chairman
211 9th Street South, Box 2806
Fargo, ND 58108

Subject: Work Package 43E.2.F, Riverbend Road Removals
Recommendation of Award

Dear Board Members:

CH2M (Program Management Consultant) recommends the Metro Flood Diversion Authority award Work Package 43E.2.F, Riverbend Road Removals, to Landwehr Construction, Inc. in the amount of **\$234,593.50** as the lowest and best bid.

We conducted a public Bid Opening for this project on May 16, 2017 where four bids were received. After review, Landwehr Construction, Inc. was determined to be the lowest responsive bidder. Their price is approximately 52% lower than the Engineer's Opinion of Probable Cost and it appears to be a full and valid bid.

Contact me at 208-771-1686 or tyler.smith@ch2m.com if you have any questions regarding this recommendation.

Sincerely,

A handwritten signature in black ink that reads 'Tyler Smith'.

Tyler Smith, P.E.
Construction
Manager CH2M
HILL
Owner's Representative

c: Randy Richardson/CH2M
Heather Worden/Cass County

Nicole Schlepp/HMG
Peter Chitwood/CH2M

Work Package 43E.2.F
 Riverbend Road Removals
 BID OPENING: May 16th, 2017

BID SUMMARY

Bidder Name	Bid Price	Bid Bonds	Contractor Lic.	Addenda
Landwehr Construction, Inc.	\$234,593.50	✓	✓	✓
Schmidt & Sons Construction Inc.	\$297,991.50	✓	✓	✓
M&M Contractors	\$421,127.25	✓	✓	✓
Hough Inc.	\$526,276.58	✓	✓	✓