METRO FLOOD DIVERSION AUTHORITY
Thursday, September 28, 2017
3:30 PM
Fargo City Commission Room
Fargo City Hall
200 3rd Street North

1. Call to order

2. Approve minutes from previous meetings — Item 2. — Action

3. Approve order of agenda — Action

4. Presentation from Jason Ehlert, President, North Dakota Building Trades — Information

5. Management — Information
   a. PMC report
   b. Corps of Engineers update

6. Administrative/Legal — Information

7. Public Outreach — Information
   a. Committee report
   b. Business Leaders Task Force update

8. Land Management — Information
   a. Committee report
   b. Land Acquisition Status Report — Item 8b.

9. Finance — Information/action
   a. Committee report — Item 9a.
   b. Voucher approval — Item 9b.
   c. Recommended contracting actions — Item 9c.

10. Other Business

11. Next Meeting – October 12, 2017

12. Executive session pursuant to N.D.C.C. § 44-04-19.1, subsections 2 and 9, to consult with its Attorneys regarding the ongoing litigation in the matters of Richland/Wilkin JPA and MNDNR v. the United States Army Corps of Engineers and Fargo Moorhead Flood Diversion Authority as Intervenor, Civil File No. 0:13-cv-02262-JRT-LIB and the contested case hearing before the Minnesota Office of Administrative Hearings regarding the MNDNR permit for Metro Flood Diversion Authority and to provide an update to the Board regarding the negotiations for an employment contract with the finalist (Jay Neider) selected for the position of Executive Director

13. Adjournment

cc: Local Media

METRO FLOOD DIVERSION AUTHORITY
AUGUST 24, 2017—3:30 PM

1. MEETING TO ORDER

A meeting of the Metro Flood Diversion Authority was held Thursday, August 24, 2017, at 3:30 PM in the Fargo City Commission Room with the following members present: Fargo City Mayor Tim Mahoney via conference call; Fargo City Commissioner Tony Grindberg; Cass County Commissioner Mary Scherling via conference call; Cass County Commissioner Chad M. Peterson; Cass County Commission representative Darrell Vanyo; Moorhead City Mayor Del Rae Williams; Moorhead City Council Member Chuck Hendrickson; Clay County Commissioner Kevin Campbell; Clay County Commissioner Grant Weyland; Cass County Joint Water Resource District Manager Rodger Olson; and West Fargo City Commissioner Mike Thorstad. Fargo City Commissioner Dave Piepkorn and Moorhead City Council Member Joel Paulsen were absent.

2. AGENDA ORDER

MOTION, passed

Mr. Weyland moved and Mr. Peterson seconded to approve the order of the agenda. Motion carried.

3. MINUTES APPROVED

MOTION, passed

Mr. Weyland moved and Mr. Hendrickson seconded to approve the minutes from the July 27, 2017, meeting as presented. Motion carried.

4. MANAGEMENT UPDATE

Program management consultant (PMC) report

Randy Richardson from CH2M provided an update on activities over the last month, which include beginning construction on the OHB levee and County Road 16/County Road 17 realignment projects; continued Phase 1 and Phase 2 land acquisitions; release of the P3 RFP documents to proposers on July 28th; and first appearance before the new State Water Commission board members. Priority areas for the next month include the Conditional Letter of Map Revision (CLOMR) notification letters to individual property owners after approval by FEMA; response to comments on the updated P3 RFP draft; continued land acquisition activities including the Wild Rice Control Structure site; initiation of a flowage easement valuation study; review and update the program financial plan; and determine what impacts there may be as a result of the upcoming federal court ruling.

Robert Cowen from CH2M provided a brief financial update on the overall program status and said $372 million has been expended to date. He said $40 million has been expended out of the $240 million FY2017 budget.

Greg Baisch from CH2M provided a construction update on continued work on in-town levees, landscaping and plantings, and Oxbow home demolition and relocation projects. He said construction began on the OHB levee with a portion of Highway 81 already removed and closed, Oxbow Drive milled up, and dust control provided on Main Street in Bakke Subdivision. Construction crews will begin mobilizing next week on the County Road 16 and 17 realignment project with the expectation that most of the work will be completed by the end of this year.

5. CORPS OF ENGINEERS UPDATE

Terry Williams, Corps of Engineers Project Manager, provided an update of activities, which include completion of soil preloading, channel excavation, and placement in dam embankments

for the Diversion inlet control structure; Wild Rice control structure final technical plans and specs for sponsor review by December 1st; final preliminary engineering report and real estate drawings on southern embankment design due November 30th; plans and specs finalized in June 2017 for the Wild Rice Dam removal mitigation project with a contract award in FY2018 if the Wild Rice control structure is funded; and cultural mitigation investigation of sites along the Diversion channel in October.

6. ADMINISTRATIVE/LEGAL UPDATE

Michael Redlinger, Assistant Fargo City Administrator, provided an update on the second interview for the Executive Director position, which is scheduled with Jay Neider on Monday, August 28, 2017, beginning with a box lunch at 11:30 AM followed by the interview from noon to 2:00 PM. He said depending on the direction of the board, a special meeting may be needed to consider an employment agreement.

7. PUBLIC OUTREACH UPDATE

Committee report

The Public Outreach Committee met on August 23rd. Mr. Olson said the committee discussed how to respond to misinformation regarding the project. The Business Leaders Task Force was asked to explore different options to help with this issue. Mr. Olson also asked board members to consider submitting editorial pieces to educate and provide correct information to the public regarding the project. He envisions when an Executive Director is hired, the person will take the lead to build trust and respect from the community and provide information to the public with assistance from staff.

8. LAND MANAGEMENT UPDATE

The Land Management Committee met on August 23rd. Mrs. Scherling said the committee reviewed flowage easement RFQs; Corps of Engineers right-of-entry request for southern embankment features located in Minnesota; Corps of Engineers right-of-way request for the Wild Rice control structure; mitigation projects; and cultural mitigation efforts.

Land Acquisition Status Report

Eric Dodds from AE2S referred to the map showing the status of property acquisitions. Mr. Campbell discussed the need for soil borings on the Minnesota side for the southern embankment. He said the Cass County Joint Water Resource District handled right-of-entry and associated tasks on the North Dakota side; but it has not been formally established how this will be completed in Minnesota. He and Mayor Williams will work with attorneys to determine how this task will be handled to ensure work moves forward on the southern embankment.

Mr. Olson asked about the timeline to complete the flowage easement valuation study. Mr. Dodds said RFQs are due from firms by September 7th, and he estimates the study will take about a year to complete.

9. FINANCE UPDATE

Committee report

The Finance Committee met on August 23rd. Mr. Grindberg reviewed the financial report and said the Diversion Authority has $78 million in cash on hand.

MOTION, passed

Mr. Grindberg moved and Mr. Campbell seconded to receive and file the monthly financial report. Motion carried.

Voucher approval

The bills for the month are with the Cass County Joint Water Resource District (CCJWRD) for costs associated with the Metro Flood Diversion, Diversion Project Assessment District, OHB levee, Oxbow Golf and Country Club and in-town levees; Dorsey & Whitney LLP for legal services; Ohnstad Twichell, P.C. for legal services; Erik R. Johnson & Associates, Ltd. for legal services; Cass County Government for dust control on county roads, temporary seeding and mowing, road repair and grade, and traffic control associated with the inlet control structure project; Gerson Lehman Group for litigation consulting services; and HKA Global, Inc. for litigation consulting services.

MOTION, passed

Mr. Olson moved and Mr. Grindberg seconded to approve the vouchers received through August 17, 2017, in the amount of $9,590,260.62. On roll call vote, the motion carried unanimously.

Recommended Contracting Actions

Robert Cowen from CH2M discussed the following contracting actions, which were approved by the Finance Committee and Technical Team:

- Sprint Communications Company, L.P. (OHB ring levee fiber optic relocation)—reimbursement agreement in the amount of $276,363.92 for coast-to-coast fiber optic relocation required for the OHB ring levee.

  MOTION, passed

  Mr. Grindberg moved and Mr. Vanyo seconded to approve the appropriation of funds for the reimbursement agreement with Spring Communications Company, L.P. On roll call vote, the motion carried unanimously.

- CenturyLink Communications (OHB ring levee communications cable relocation)—reimbursement agreement in the amount of $28,577.62 for proposed copper communication cable levee crossing required for the OHB ring levee.

  MOTION, passed

  Mr. Grindberg moved and Mr. Hendrickson seconded to approve the appropriation of funds for the reimbursement agreement with CenturyLink Communications. On roll call vote, the motion carried unanimously.

- Reiner Contracting, Inc. (Change Order 06 El Zagal Area Flood Risk Management Phase 2)—change order to balance final quantities of unit rate items for a deduction in the amount of $1,720.78.

  MOTION, passed

  Mr. Grindberg moved and Mr. Olson seconded to approve the appropriation of funds for the change order with Reiner Contracting, Inc. On roll call vote, the motion carried unanimously.

10. NEXT MEETING

The next meeting will be held on Thursday, September 28, 2017.

11. ADJOURNMENT

There being no further business, the Vice Chairwoman declared the meeting adjourned at 4:20 PM.

Minutes prepared by Heather Worden, Cass County Administrative Assistant

METRO FLOOD DIVERSION AUTHORITY
AUGUST 31, 2017—10:32 AM

1. MEETING TO ORDER

A special meeting of the Metro Flood Diversion Authority was held Thursday, August 31, 2017, at 10:32 AM in the Fargo City Commission Room with the following members present: Fargo City Commissioner Dave Piepkorn; Fargo City Mayor Tim Mahoney; Cass County Commissioner Mary Scherling; Cass County Commissioner Chad M. Peterson; Cass County Commission representative Darrell Vanyo; Moorhead City Council Member Joel Paulsen via conference call; Clay County Commissioner Kevin Campbell; Clay County Commissioner Grant Weyland via conference call; Cass County Joint Water Resource District Manager Rodger Olson via conference call; and West Fargo City Commissioner Mike Thorstad. Moorhead City Council Member Chuck Hendrickson was absent.

2. EXECUTIVE DIRECTOR, Second interview discussion; Jay Neider to be offered position

Board members participated in a second interview with finalist Jay Neider on Monday, August 28th and provided their comments. The consensus is that Mr. Neider is the candidate that stood out from the three finalists, and the board supports hiring him as Executive Director.

MOTION, passed

Mr. Weyland moved and Mr. Vanyo seconded to hire Jay Neider for the position of Executive Director for the Metro Flood Diversion Authority. On roll call vote, the motion carried unanimously.

3. EXECUTIVE SESSION

North Dakota state law allows the board to meet in private session to consult with legal counsel to discuss contract negotiations.

MOTION, passed

Mr. Olson moved and Mr. Vanyo seconded that the Metro Flood Diversion Authority meet in executive session pursuant to N.D.C.C. §44-04-19.1 to discuss negotiating instructions to Co-Executive Directors, Executive Director search firm representative, and general counsel regarding the negotiating parameters for an offer of employment and employment contract with the finalist selected for the position of Executive Director. On roll call vote, the motion carried unanimously.

Diversion Authority board members, key administrative staff, and Attorney Katie Bertsch moved to the River Room at 10:40 AM.

Moorhead City Mayor Del Rae Williams and Fargo City Commissioner Tony Grindberg arrived after members moved to the River Room and also participated in the executive session.

The executive session ended at 11:10 AM, and the meeting was re-opened to the public.

4. NEXT MEETING

The next meeting will be held on Thursday, September 28, 2017.

5. ADJOURNMENT

MOTION, passed

On motion by Mr. Peterson, seconded by Mr. Vanyo, and all voting in favor, the meeting was adjourned at 11:12 AM.

Minutes prepared by Heather Worden, Cass County Administrative Assistant

METRO FLOOD DIVERSION AUTHORITY
SEPTEMBER 14, 2017—3:30 PM

1. MEETING TO ORDER

A special meeting of the Metro Flood Diversion Authority was held Thursday, September 14, 2017, at 3:30 PM in the Fargo City Commission Room with the following members present: Fargo City Mayor Tim Mahoney; Fargo City Commissioner Dave Piepkorn; Fargo City Commissioner Tony Grindberg; Cass County Commissioner Mary Scherling; Cass County Commissioner Chad M. Peterson via conference call; Cass County Commission representative Darrell Vanyo; Moorhead City Mayor Del Rae Williams; Moorhead City Council Member Chuck Hendrickson; Cass County Joint Water Resource District Manager Rodger Olson via conference call; and West Fargo City Commissioner Mike Thorstad. Clay County Commissioner Kevin Campbell and Clay County Commissioner Grant Weyland were absent.

Mr. Mahoney said Mr. Campbell and Mr. Weyland told him they were not able to attend today's meeting due to another meeting commitment.

2. EXECUTIVE SESSION

Attorney John Shockley said North Dakota state law allows the board to meet in private session to consult with legal counsel to discuss ongoing litigation and contract negotiations.

MOTION, passed

Mr. Vanyo moved and Ms. Williams seconded that the Metro Flood Diversion Authority meet in executive session pursuant to N.D.C.C. § 44-04-19.1, subsections 2 and 9, to consult with its Attorneys regarding the ongoing litigation in the matters of Richland/Wilkin JPA and MNDNR v. the United States Army Corps of Engineers and Fargo Moorhead Flood Diversion Authority as Intervenor, Civil File No. 0:13-cv-02262-JRT-LIB and the contested case hearing before the Minnesota Office of Administrative Hearings regarding the MNDNR permit for Metro Flood Diversion Authority and to provide an update to the Board regarding the negotiations for an employment contract with the finalist (Jay Neider) selected for the position of Executive Director. On roll call vote, the motion carried unanimously.

Diversion Authority board members, key administrative staff, and Attorney John Shockley moved to the River Room at 3:31 PM.

Moorhead City Council Member Joel Paulsen arrived at 3:35 PM and joined the executive session.

The executive session ended at 5:09 PM, and the meeting was re-opened to the public.

3. PMC CONTRACT/STAFF/PROJECT WORKFLOWS FOLLOWING INJUNCTION ISSUANCE

Michael Redlinger, Co-Executive Director, said the Diversion Authority intends to fully comply with the recent injunction order issued last week. He said a meeting will be held with Program Management Consultants CH2M to determine what activities will be suspended. He anticipates there will be a reduction in duties as well as construction services. The goal is to maintain good public relations during this time as part of the process to be compliant with the injunction order. He said more information will be provided at the board meeting in two weeks.

Mr. Redlinger discussed a change to the organizational model which would create a policy leadership team made up of an elected representative from each of the entities. Mr. Grindberg and Mr. Paulsen both expressed concerns about the full board not being involved in decisions.

Mr. Piepkorn believes it is important for the board to meet more often to discuss the path moving forward. Mrs. Scherling said things may also change if an Executive Director is hired.

There was a consensus by the board to meet every two weeks until the end of the year. If there is no business to handle, the meeting would be cancelled.

4. NEXT MEETING

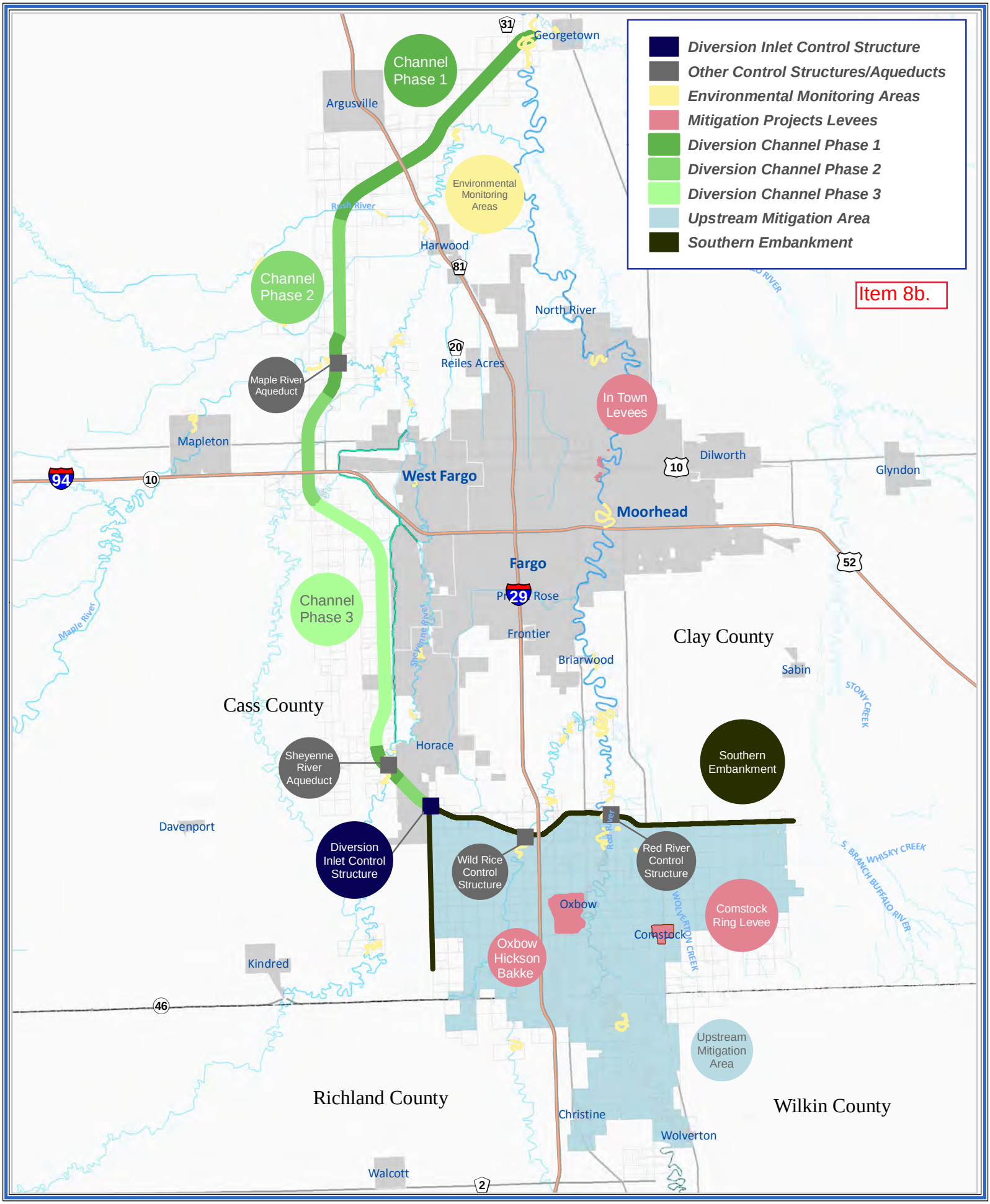
The next meeting will be held on Thursday, September 28, 2017.

5. ADJOURNMENT

MOTION, passed

On motion by Mr. Piepkorn, seconded by Mr. Vanyo, and all voting in favor, the meeting was adjourned at 5:25 PM.

Minutes prepared by Heather Worden, Cass County Administrative Assistant



Maps are for graphical purposes only. They do not represent a legal survey. While every effort has been made to ensure that these data are accurate and reliable, The Diversion Authority does not guarantee the accuracy of the information, and waives any warranty or guarantee of any kind, express or implied. The data involved in the project is continuously refined and revised; you should not rely on this information for technical purposes or accuracy.

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FM Area Diversion Key Acquisition Areas

9/20/2017

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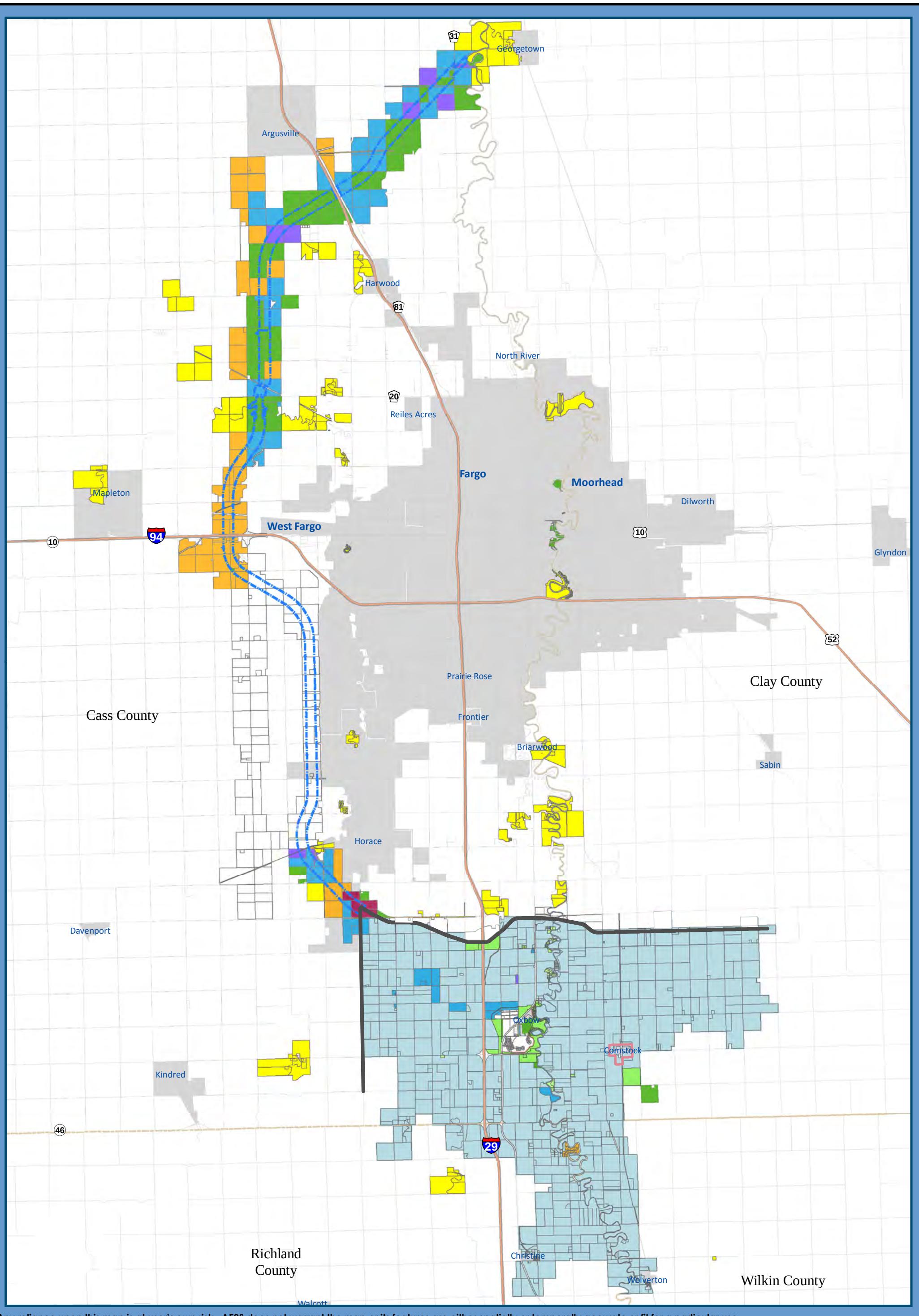

Any reliance upon this map is at user's own risk. AE2S does not warrant the map or its features are either spatially or temporally accurate or fit for a particular use.
Date: 9/20/2017 | Coordinate System: NAD 1983 StatePlane North Dakota South FIPS 3302 Feet

STATUS

- Appraisal Pending **ON HOLD** (105)
- In Negotiation **ON HOLD** (108)
- Purchase Agreement Signed (16)
- Acquired; Easement Secured (183)
- Condemnation for Acquisition (6)
- Future Acquisitions (352)
- Flowage Easement Secured (127)
- Future Flowage Easement (781)
- Bio/Geo Monitoring Only (358)

Total Parcels (1,814)*

0 1.75 3.5 Miles

Property Acquisition Status Report

09/20/2017

*Flowage Easement Parcels include some parcels that will be acquired for other project work packages.Total Parcels does not count these twice.

FM AREA DIVERSION PROJECT

AE2S
Advanced Engineering and Environmental Services, Inc.

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FM Metropolitan Area Flood Risk Management Project
Fiscal Accountability Report Design Phase (Fund 790)
As of 08/31/2017

		2011	2012	2013	2014	2015	2016	2017	Cumulative Totals
Revenues									
City of Fargo		443,138	7,652,681	7,072,961	19,373,131	28,310,373	35,212,877	21,664,800	119,729,961
Cass County		443,138	7,652,681	7,072,961	19,373,131	28,310,373	111,715,540	9,236,075	183,803,898
State Water Commission				3,782,215	602,918	31,056,740	101,436,302	12,169,133	149,047,308
Other Agencies		98,475	1,700,595	1,571,769	4,305,140	6,291,194	(13,260,368)	-	706,805
Reimbursements							33,880	4,971	38,851
Lease/Rental Payments				17,358	154,180	180,341	260,806	311,927	924,612
Asset Sales					616,774	315,892	175,190	116,979	1,224,835
Miscellaneous				226	626	427		355,891	357,170
Total Revenues		984,751	17,005,957	19,517,490	44,425,900	94,465,340	235,574,227	43,859,776	455,833,441
Expenditures									
	7905 Army Corp Payments	-	-	875,000	1,050,000	2,725,000	47,279,000	1,230,000	53,159,000
	7910 WIK - Administration	107,301	331,321	77,614	169,019	282,227	545,555	313,844	1,826,881
	7915 WIK - Project Design	149,632	5,366,147	3,220,859	9,118,723	4,660,226	2,719,505	1,545,347	26,780,439
	7920 WIK - Project Management	679,037	7,223,650	4,695,477	3,579,339	4,500,955	8,464,392	7,101,030	36,243,880
	7925 WIK - Recreation		163,223						163,223
	7930 LERRDS - North Dakota	48,664	3,843,620	2,763,404	17,013,358	55,948,209	46,717,049	32,266,680	158,600,984
	7931 LERRDS - Minnesota		27,996	287,907	13,068	32,452	1,815,566	33,841	2,210,830
	7940 WIK Mitigation - North Dakota				587,180			30,595	617,775
	7941 WIK Mitigation - Minnesota								-
	7950 Construction - North Dakota				1,738,638	19,269,055	42,263,916	4,093,497	67,365,106
	7951 Construction - Minnesota								-
	7952 Construction - O/H/B				11,282,504	5,044,001	776,720	102,325	17,197,485
	7955 Construction Management				556,209	2,867,422	5,182,366	1,107,528	9,713,525
	7980 Operations & Maintenance							6,403	6,403
	7990 Project Financing		50,000	70,000	216,376	566,600	5,435,289	6,582,528	12,920,793
	7995 Project Eligible - Off Formula Costs						-		-
	7999 Non Federal Participating Costs	116					-		116
Total Expenditures		984,750	17,005,957	11,990,261	45,324,414	95,896,147	161,199,358	54,413,618	386,806,440

FM Metropolitan Area Flood Risk Management Project
Statement of Net Position
August 31, 2017

		Amount
Assets		
Cash	$	69,639,043
Receivables		
State Water Commission *		-
Proceeds from Oxbow Lot Sales		1,125,235
Total assets		**70,764,278**
Liabilities		
Vouchers payable		-
Retainage payable		1,737,277
Total liabilities		**1,737,277**
NET POSITION	**$**	**69,027,001**

***** Receivable balance is as of 7.31.2017

FM Metropolitan Area Flood Risk Management Project
FY 2017 Summary Budget Report (In Thousands)
As of 31 August 2017

	FY 2017 Approved Budget	Current Month	Fiscal Year To Date	% Expended	Outstanding Encumbrances	Remaining Budget Balance
Revenue Sources						
City of Fargo	-	2,977	21,665			
Cass County	-	1,125	9,236			
State of ND - 50 % Match	-	777	5,957			
State of ND - 100% Match	-	-	6,212			
State of Minnesota	-		-			
Other Agencies	-		-			
Financing Proceeds	-		-			
Reimbursements	-	-	5			
Sales of Assets	-	117	117			
Property Income	-	48	312			
Miscellaneous	-	58	356			
Total Revenue Sources	**241,311**	**5,102**	**43,860**	**-**	**-**	**197,451**
Funds Appropriated (Rev1 - 27Apr2017)						
Diversion Channel & Assoc. Infrastructure	8,801	1,286	7,528.79	86%	4,206	(2,933)
Southern Embankment & Assoc. Infrastructure	1,230	10	1,254.04	102%	-	(24)
Other Mitigation Projects	24,246	201	474.19	2%	11,382	12,390
In-Town Flood Protection	46,176	643	5,959.79	13%	1,722	38,493
Enabling Work / Other	9,811	13	13.23	0%	3,177	6,621
Land Acquisition & Mitigation	107,420	9,326	26,570.64	25%	32,449	48,399
Engineering & Design Fees	10,694	11	1,707.29	16%	7,504	1,482
Program Management	17,247	2,379	9,602.33	56%	15,243	(7,598)
Contingency	7,449	-	-	0%		7,449
Debt Service	8,137	174	1,296.91	16%	-	6,840
Maintenance	100	-	6.40	6%	-	94
Total Appropriations	**241,311**	**14,043**	**54,414**	**23%**	**75,684**	**111,213**

Summary Of Expenses
EXP-2017-08

Account Number	Check Date	Check Number	Vendor Name	Transaction Amount	Description	Project Number	Project Description
790-0000-206.10-00	8/9/2017	280173	INDUSTRIAL BUILDERS INC	$205,243.45		V02812	2ND ST NORTH FLOODWALL
	8/31/2017	280696	INDUSTRIAL BUILDERS INC	$564,905.03		V02819	2ND ST N FLOODWALL
			Retainage	**$770,148.48**			
790-7910-429.33-20	8/23/2017	JB081700	City of Fargo	$4,723.26		V00102	General & Admin. WIK
			Other Services / Accounting Services	**$4,723.26**			
790-7910-429.33-25	8/9/2017	280222	OHNSTAD TWICHELL PC	$420.00		V02407	OXBOW MOU-LEGAL SERVICES
	8/31/2017	280672	ERIK R JOHNSON & ASSOCI	$3,978.50		V00102	General & Admin. WIK
			Other Services / Legal Services	**$4,398.50**			
790-7910-429.33-98	8/3/2017	279928	CPS HR Consulting	$3,500.00		V03601	
			Other Services / Personnel Recruitment	**$3,500.00**			
790-7910-429.34-35	8/31/2017	280658	Alerus Financial	$22.00		V01203	Cass Joint Water OHB
			Technical Services / Banking Services	**$22.00**			
790-7910-429.38-68	9/5/2017	629	FREDRIKSON & BYRON, PA	$7,000.00		V00102	General & Admin. WIK
			Other Services / Lobbyist	**$7,000.00**			
790-7915-429.33-05	8/9/2017	280222	MOORE ENGINEERING INC	$300.00		V02402	OXBOW MOU-PRELIM ENGINRN
	8/31/2017	280658	MOORE ENGINEERING INC	$2,980.00		V01201	Cass Joint Water ROE
	8/31/2017	280777	URS CORPORATION	$11,315.00		V01003	CULTURAL RESOURCES INVEST
			Other Services / Engineering Services	**$14,595.00**			
790-7920-429.33-79	8/9/2017	280121	CH2M Hill Engineers Inc	$944,622.24		V00207	
	8/9/2017	280222	MOORE ENGINEERING INC	$4,942.10		V02421	OXBOW MOU-MOORE PROJ MG
	8/31/2017	280663	CH2M Hill Engineers Inc	$657,553.28		V00207	
			Other Services / Construction Management	**$1,607,117.62**			
790-7930-429.33-05	8/31/2017	280658	ADVANCED ENGINEERING I	$22,004.35		V01202	Cass Joint Water DPAC
	8/31/2017	280658	HOUSTON-MOORE GROUP L	$133,231.14		V01201	Cass Joint Water ROE
	8/31/2017	280658	MOORE ENGINEERING INC	$2,704.40		V01201	Cass Joint Water ROE
	8/31/2017	280658	ULTEIG ENGINEERS INC	$42,500.23		V01201	Cass Joint Water ROE
			Other Services / Engineering Services	**$200,440.12**			

Account Number	Check Date	Check Number	Vendor Name	Transaction Amount	Description	Project Number	Project Description
790-7930-429.33-06	8/31/2017	280658	BRAUN INTERTEC CORP	$1,886.00		V01203	Cass Joint Water OHB
			Other Services / Quality Testing	**$1,886.00**			
790-7930-429.33-25	8/31/2017	280658	Larkin Hoffman Attorneys	$10,332.78		V01201	Cass Joint Water ROE
	8/31/2017	280658	OHNSTAD TWICHELL PC	$121,125.19		V01201	Cass Joint Water ROE
	8/31/2017	280658	OHNSTAD TWICHELL PC	$53,748.21		V01203	Cass Joint Water OHB
	8/31/2017	280658	OHNSTAD TWICHELL PC	$3,380.50		V01202	Cass Joint Water DPAC
	8/31/2017	280682	GERSON LEHRMAN GROUP,	$60,819.00		V04501	
	8/31/2017	280691	HKA GLOBAL, INC	$74,353.00		V04601	
	9/5/2017	629	DORSEY & WHITNEY LLP	$420,140.06		V00101	Dorsey Whitney Legal
	9/3/2017	633	DORSEY & WHITNEY LLP	$168,321.00		V00101	Dorsey Whitney Legal
			Other Services / Legal Services	**$912,219.74**			
790-7930-429.33-32	8/31/2017	280658	Steve Herzog - CCJWRD	$9,637.97	Original Entry of $11,400.64 was chan	V01201	Cass Joint Water ROE
			Other Services / Appraisal Services	**$9,637.97**			
790-7930-429.33-79	8/9/2017	280121	CH2M Hill Engineers Inc	$628,916.47		V00207	
	8/31/2017	280663	CH2M Hill Engineers Inc	$506,190.52		V00207	
			Other Services / Construction Management	**$1,135,106.99**			
790-7930-429.38-61	8/31/2017	280658	Sentry Security, Inc.	$4,054.44		V01203	Cass Joint Water OHB
			Security Services	**$4,054.44**			
790-7930-429.38-95	8/31/2017	280658	Valley Green & Associates	$2,620.00		V01701	ND LAND PURCH-OUT OF TOWN
			Other Services / Mowing Services	**$2,620.00**			
790-7930-429.38-99	8/17/2017	280294	Cass County Weed Control	$621.66		V04202	
	8/31/2017	280658	Doug Ketcham & Associates, Inc	$685.95		V01202	Cass Joint Water DPAC
			Other Services / Other Services	**$1,307.61**			
790-7930-429.41-05	8/31/2017	280658	Cass Rural Water	$85.80		V01701	ND LAND PURCH-OUT OF TOWN
			Utility Services / Water and Sewer	**$85.80**			
790-7930-429.52-30	8/31/2017	280658	DAWSON INSURANCE AGEN	$11.33		V01701	ND LAND PURCH-OUT OF TOWN
	8/31/2017	280658	DAWSON INSURANCE AGEN	$5.67		V01703	ND LAND PURCH - IN TOWN
				$17.00			

Account Number	Check Date	Check Number	Vendor Name	Transaction Amount	Description	Project Number	Project Description
790-7930-429.62-51	8/31/2017	280658	Cass County Electric Cooperativ	$2,023.37		V01701	ND LAND PURCH-OUT OF TOWN
			Energy / Electricity	**$2,023.37**			
790-7930-429.67-11	8/31/2017	280658	9505 - CHAMP	$1,299,442.00		V01701	ND LAND PURCH-OUT OF TOWN
	8/31/2017	280658	9507 - JOHNSON 13	$9,753.50		V01701	ND LAND PURCH-OUT OF TOWN
	8/31/2017	280658	9644 - HAKANSON	$3,322.62		V01701	ND LAND PURCH-OUT OF TOWN
			Relocation / Residential Buildings	**$1,312,518.12**			
790-7930-429.67-12	8/31/2017	280658	Oxbow Country Club	$44,118.72		V01204	Cass Joint Water OCC
			Relocation / Commercial Buildings	**$44,118.72**			
790-7930-429.71-30	8/31/2017	280658	0544 - CHOSE	$60,128.07		V01701	ND LAND PURCH-OUT OF TOWN
	8/31/2017	280658	0546 - LARSON 2	$701,423.99		V01701	ND LAND PURCH-OUT OF TOWN
	8/31/2017	280658	0571 - SCHOENBERG 1	$867,541.78		V01701	ND LAND PURCH-OUT OF TOWN
	8/31/2017	280658	0572 - SCHOENBERG 1	$867,541.78		V01701	ND LAND PURCH-OUT OF TOWN
	8/31/2017	280658	0573 - SCHOENBERG 1	$867,541.78		V01701	ND LAND PURCH-OUT OF TOWN
	8/31/2017	280658	0574 - SCHOENBERG 1	$867,541.78		V01701	ND LAND PURCH-OUT OF TOWN
	8/31/2017	280658	1889 - LEHER	$301,635.00		V01702	ND LAND PURCHASE-HARDSHIP
	8/31/2017	280658	1990 - LEHER	$301,635.00		V01702	ND LAND PURCHASE-HARDSHIP
	8/31/2017	280658	2182 - LEHER	$301,635.00		V01702	ND LAND PURCHASE-HARDSHIP
	8/31/2017	280658	2367 - FARGOCITY	$0.00		V01701	ND LAND PURCH-OUT OF TOWN
	8/31/2017	280658	2368 - LARSON 2	$701,424.00		V01701	ND LAND PURCH-OUT OF TOWN
	8/31/2017	280658	9505 - CHAMP	$412,438.13		V01701	ND LAND PURCH-OUT OF TOWN
	8/31/2017	280658	9602 - DEBATES	$475,361.81		V01701	ND LAND PURCH-OUT OF TOWN
	8/31/2017	280658	9748 - BIEGLER	$245,185.00		V01701	ND LAND PURCH-OUT OF TOWN
	8/15/2017	30217	9507 - JOHNSON 13	($2,571.95)		V01701	ND LAND PURCH-OUT OF TOWN
			Land / Land Purchases	**$6,968,461.17**			
790-7930-429.71-31	8/31/2017	280658	0224 - SAUVAGEAU 1	$373,437.00		V01701	ND LAND PURCH-OUT OF TOWN
	8/31/2017	280658	1198 - BUSTERS	$1,755.00		V01701	ND LAND PURCH-OUT OF TOWN
	8/31/2017	280658	2367 - FARGOCITY	$32,340.00		V01701	ND LAND PURCH-OUT OF TOWN
			Land / Easements	**$407,532.00**			

Account Number	Check Date	Check Number	Vendor Name	Transaction Amount	Description	Project Number	Project Description
790-7930-429.73-20	8/31/2017	280658	Schmidt and Sons Inc.	$29,307.60		V01701	ND LAND PURCH-OUT OF TOWN
	8/31/2017	280762	Schmidt and Sons Inc.	$74,764.00		V03801	
			Infrastructure / Site Improvements	**$104,071.60**			
790-7931-429.62-51	8/31/2017	280658	RED RIVER VALLEY COOPE	$56.78		V02302	MN LAND PURCHASE-HARDSHIP
			Energy / Electricity	**$56.78**			
790-7950-429.38-99	8/31/2017	280659	Glacier Dust Control	$1,334.58		V04201	
	8/31/2017	280659	HCI	$5,474.10		V04201	
	8/31/2017	280659	Northstar Safety Inc.	$2,500.00		V04201	
	8/31/2017	280659	Warren Township	$1,065.00		V04201	
			Other Services / Other Services	**$10,373.68**			
790-7950-429.73-52	8/3/2017	279952	INDUSTRIAL BUILDERS INC	$416,399.19		V02819	2ND ST N FLOODWALL
	8/3/2017	279953	INDUSTRIAL CONTRACT SE	$80,435.50		V02805	PUMP STATION & FLOODWALL
	8/31/2017	280696	INDUSTRIAL BUILDERS INC	$9,048.50		V02819	2ND ST N FLOODWALL
			Infrastructure / Flood Control	**$505,883.19**			
790-7950-429.73-70	8/9/2017	280263	XCEL ENERGY-FARGO	$34,545.76		V02811	XCEL WP42 UTILITY RELOCTE
			Infrastructure / Utilities	**$34,545.76**			
790-7952-429.33-05	8/31/2017	280658	Oxbow Country Club	$1,613.65		V01204	Cass Joint Water OCC
			Other Services / Engineering Services	**$1,613.65**			
790-7952-429.33-79	8/31/2017	280658	Oxbow Country Club	$13,000.00		V01204	Cass Joint Water OCC
			Other Services / Construction Management	**$13,000.00**			
790-7952-429.57-60	8/31/2017	280658	Oxbow Country Club	$1,427.90		V01204	Cass Joint Water OCC
			Out of State Travel / Out of State Travel Exp	**$1,427.90**			
790-7952-429.73-70	8/31/2017	280651	Cass County Electric Cooperativ	$27,700.00		V04701	
			Infrastructure / Utilities	**$27,700.00**			
790-7955-429.33-05	8/31/2017	280658	HOUSTON-MOORE GROUP L	$12,971.25		V01203	Cass Joint Water OHB
			Other Services / Engineering Services	**$12,971.25**			

Summary Of Expenses
EXP-2017-08

Account Number	Check Date	Check Number	Vendor Name	Transaction Amount	Description	Project Number	Project Description
790-7955-429.33-06	8/9/2017	280244	TERRACON CONSULTING E	$1,841.00		V02802	WP-42 MATERIALS TESTING
			Other Services / Quality Testing	**$1,841.00**			
790-7990-429.33-25	8/9/2017	280096	ASHURST LLP	$122,457.56		V03001	P3 Legal Console - Ashford
	8/17/2017	280294	CHAPMAN AND CUTLER	$25,000.00		V00102	General & Admin. WIK
	9/5/2017	629	OHNSTAD TWICHELL PC	$111,465.96		V00102	General & Admin. WIK
	9/3/2017	633	OHNSTAD TWICHELL PC	$101,367.65		V00102	General & Admin. WIK
			Other Services / Legal Services	**$360,291.17**			
790-7990-429.34-55	8/9/2017	280093	AON RISK SERVICES CENTR	$43,017.68		V03201	Pre-Award P3 Risk Advisor
	8/31/2017	280712	Ernst & Young	$108,969.50		V03301	PPP FINANCL ADVISORY SVCS
			Technical Services / Financial Advisor	**$151,987.18**			
790-7990-520.80-20	8/9/2017	280116	Wells Fargo	$109,593.56		V02904	$100M CASS WELLS FAR ADVNC
	8/8/2017	JB081700	Wells Fargo	$53,136.04	Combined SunGard invoice line items f	V02903	$100M COF WELLS FAR ADVNC
			Debt Service / Interest On Bonds	**$162,729.60**			
790-7990-520.80-30	8/8/2017	JB081700	Wells Fargo	$11,608.33	Combined SunGard invoice line items f	V02903	$100M COF WELLS FAR ADVNC
			Debt Service / Fiscal Agent Fees	**$11,608.33**			

Total Amount Invoiced this period:	**$14,813,635.00**	
	$770,148.48	**Less Paid Retainage**
	$14,043,486.52	**Total Less Paid Retainage**

FM Metropolitan Area Flood Risk Management Project

Cumulative Vendor Payments Since Inception

As of August 31, 2017

Row Labels	Approved Contract/Invoice Amount	Liquidated	Outstanding Encumbrance	Purpose
CASS COUNTY JOINT WATER RESOUR	$ 184,231,070.77	$ 152,356,798.29	$ 31,874,272.48	Land Purchases, O/H/B Ring Levee, DPAC, & ROE
ARMY CORP OF ENGINEERS	$ 53,159,000.00	$ 53,159,000.00	$ -	Local Share
CH2M HILL ENGINEERS INC	$ 50,450,594.31	$ 36,372,245.19	$ 14,078,349.12	Program, Project, Construction and Land Management
HOUSTON-MOORE GROUP LLC	$ 40,234,114.89	$ 33,478,049.55	$ 6,756,065.34	Engineering Services
INDUSTRIAL BUILDERS INC	$ 39,622,253.35	$ 38,663,656.45	$ 958,596.90	Const - 2nd St North Pump Station Project and 2nd Street Floodwall
INDUSTRIAL CONTRACT SERVICES I	$ 17,576,871.19	$ 17,490,271.96	$ 86,599.23	Const - 4th St Pump Station and 2nd Street Floodwall
OXBOW, CITY OF	$ 15,492,267.51	$ 14,783,027.02	$ 709,240.49	MOU Agreement
MEYER CONTRACTING INC	$ 10,399,476.21	$ -	$ 10,399,476.21	Construction/Demolition Services
ASHURST LLP	$ 6,715,133.70	$ 3,589,524.36	$ 3,125,609.34	PPP (P3) Legal Counsel
DORSEY & WHITNEY LLP	$ 5,024,532.75	$ 5,024,532.75	$ -	Legal Services
JP MORGAN CHASE-LOCKBOX PROCES	$ 3,377,000.00	$ 2,374,279.07	$ 1,002,720.93	Financial Advisor
RILEY BROTHERS CONSTRUCTION	$ 3,176,953.92	$ -	$ 3,176,953.92	Construction - County Roads 16 & 17 Realignment
CENTURYLINK	$ 2,586,742.00	$ 2,586,742.00	$ -	Utility Relocation
MINNESOTA DNR	$ 2,325,472.35	$ 2,325,472.35	$ -	EIS Scoping
LANDWEHR CONSTRUCTION INC	$ 2,312,244.32	$ 2,077,650.82	$ 234,593.50	Const - In-Town Demolition Contracts
URS CORPORATION	$ 1,922,118.42	$ 1,768,557.17	$ 153,561.25	Engineering Services
OHNSTAD TWICHELL PC	$ 1,875,400.15	$ 1,875,400.15	$ -	ROE and Bonding Legal Fees
CITY OF FARGO	$ 1,822,991.10	$ 1,822,991.10	$ -	Digital Imagery Project, Utility Relocation, Accounting Svcs, and Bank Loan Advance DS Payments
CASS COUNTY TREASURER	$ 1,799,935.21	$ 1,683,293.54	$ 116,641.67	Property Taxes and Bank Loan Advance DS Payments
KENNELLY & OKEEFFE	$ 1,729,110.56	$ 1,729,110.56	$ -	Home Buyouts
HOUGH INCORPORATED	$ 1,726,847.35	$ 1,625,463.33	$ 101,384.02	Const - 2nd Street South Flood Control
REINER CONTRACTING INC	$ 1,599,646.21	$ 1,598,471.70	$ 1,174.51	Const - El Zagal Flood Risk Management
ACONEX (NORTH AMERICA) INC	$ 1,322,146.00	$ 306,856.00	$ 1,015,290.00	Electronic Data Mgmt and Record Storage System
CONSOLIDATED COMMUNICATIONS	$ 1,063,096.11	$ 1,063,096.11	$ -	Utility Relocation
TERRACON CONSULTING ENGINEERS	$ 828,792.49	$ 828,718.42	$ 74.07	Materials Testing
XCEL ENERGY	$ 753,515.88	$ 753,515.88	$ -	Utility Relocation
MOORE ENGINEERING INC	$ 662,468.17	$ 662,468.17	$ -	Engineering Services
US BANK	$ 626,849.03	$ 626,849.03	$ -	Loan Advance DS Payments
DUCKS UNLIMITED	$ 587,180.00	$ 587,180.00	$ -	Wetland Mitigation Credits
HOUSTON ENGINEERING INC	$ 576,669.57	$ 576,669.57	$ -	Engineering Services
ERIK R JOHNSON & ASSOCIATES	$ 528,855.53	$ 528,528.53	$ 327.00	Legal Services
HOFFMAN & MCNAMARA NURSERY&LAN	$ 519,954.74	$ -	$ 519,954.74	Construction - Landscape
RED RIVER BASIN COMMISSION	$ 500,000.00	$ 500,000.00	$ -	Retention Projects - Engineering Services
NORTHERN TITLE CO	$ 484,016.00	$ 484,016.00	$ -	Land Purchases
AT & T	$ 461,031.30	$ 461,031.30	$ -	Utility Relocation
SCHMIDT AND SONS CONSTRUCTION	$ 344,978.00	$ 116,564.00	$ 228,414.00	Oxbow Housing Relocation
BEAVER CREEK ARCHAEOLOGY	$ 276,990.00	$ 146,109.77	$ 130,880.23	Engineering Services
SPRINT	$ 276,363.62	$ -	$ 276,363.62	Utility Relocation
702 COMMUNICATIONS	$ 266,892.07	$ 266,892.07	$ -	Utility Relocation
FARGO MOORHEAD METROPOLITAN	$ 253,858.35	$ 253,858.35	$ -	Lidar Imaging
AON RISK SERVICES CENTRAL, INC	$ 240,000.00	$ 162,526.00	$ 77,474.00	P3 Risk Advisory Services
NDSU BUSINESS OFFICE-BOX 6050	$ 231,650.00	$ 159,287.75	$ 72,362.25	Ag Risk Study Services
BRAUN INTERTEC CORP	$ 224,849.00	$ 77,629.00	$ 147,220.00	Quality Testing
BUFFALO-RED RIVER WATERSHED DI	$ 221,568.00	$ -	$ 221,568.00	Retention Projects - Engineering Services
ROBERT TRENT JONES	$ 200,000.00	$ 200,000.00	$ -	Oxbow MOU - Golf Course Consulting Agreement
SPRINGSTED INCORPORATED	$ 165,057.22	$ 136,903.21	$ 28,154.01	Financial Advisor
FREDRIKSON & BYRON, PA	$ 150,796.12	$ 112,796.12	$ 38,000.00	Lobbying Services

FM Metropolitan Area Flood Risk Management Project

Cumulative Vendor Payments Since Inception

As of August 31, 2017

Row Labels	Approved Contract/Invoice Amount	Liquidated	Outstanding Encumbrance	Purpose
PFM PUBLIC FINANCIAL MANAGEMEN	$ 146,460.00	$ 146,460.00	$ -	Financial Advisor
AT&T NETWORK OPERATIONS	$ 125,238.30	$ 125,238.30	$ -	Utility Relocation
ENVENTIS	$ 115,685.62	$ 115,685.62	$ -	Utility Relocation
UNITED STATES GEOLOGICAL SURVE	$ 104,600.00	$ 104,600.00	$ -	Stage Gage Installation
CENTURYLINK ASSET ACCOUNTING-B	$ 102,773.54	$ 74,195.92	$ 28,577.62	Utility Relocation
CASS COUNTY ELECTRIC-DIVERSION	$ 93,915.00	$ 27,700.00	$ 66,215.00	Utility Services / Relocation
EL ZAGAL TEMPLE HOLDING CO	$ 76,000.00	$ 76,000.00	$ -	Easement Purchase for El Zagal Levee
HKA GLOBAL, INC	$ 74,353.00	$ 74,353.00	$ -	Professional Services
GRAY PANNELL & WOODWARD LLP	$ 66,300.68	$ 66,300.68	$ -	Legal Services
HOUSTON ENGINEERING INC	$ 60,819.00	$ 60,819.00	$ -	Engineering Services
NIXON PEABODY LLC	$ 60,000.00	$ 60,000.00	$ -	Legal Services
MIDCONTINENT COMMUNICATIONS	$ 54,738.44	$ -	$ 54,738.44	Utility Relocation
ADVANCED ENGINEERING INC	$ 50,000.00	$ 50,000.00	$ -	Public Outreach
IN SITU ENGINEERING	$ 47,973.00	$ 47,973.00	$ -	Quality Testing
US GEOLOGICAL SURVEY	$ 46,920.00	$ 46,920.00	$ -	Stage Gage Installation
CLAY COUNTY AUDITOR	$ 34,538.71	$ 34,538.71	$ -	Property Tax, Home Buyout Demo
GEOKON INC	$ 33,815.36	$ 33,815.36	$ -	Vibrating Wire Piezometer Equipment
COLDWELL BANKER	$ 33,066.02	$ 33,066.02	$ -	Property Management Services
WARNER & CO	$ 30,049.00	$ 30,049.00	$ -	General Liability Insurance
WESTERN AREA POWER ADMINISTRAT	$ 30,000.00	$ 30,000.00	$ -	P3 Support Services
AMERICAN ENTERPRISES INC	$ 29,000.00	$ 29,000.00	$ -	Test Pits
CPS HR CONSULTING	$ 26,500.00	$ 23,050.66	$ 3,449.34	HR Consulting
XCEL ENERGY-FARGO	$ 16,275.85	$ 16,275.85	$ -	Utility Relocation
PRIMORIS AEVENIA INC	$ 16,230.00	$ 16,230.00	$ -	Utility Relocation
MOORHEAD, CITY OF	$ 15,062.90	$ 15,062.90	$ -	ROE Legal Fees
ND WATER USERS ASSOCIATN	$ 15,000.00	$ 15,000.00	$ -	Membership Dues
BRIGGS & MORGAN PA	$ 12,727.56	$ 12,727.56	$ -	Legal Services
PROSOURCE TECHNOLOGIES, INC	$ 8,324.94	$ 8,324.94	$ -	Vibrating Wire Piezometer Equipment
MAP SERVICE CENTER	$ 7,250.00	$ 7,250.00	$ -	Permit fee
NEWMAN SIGNS INC	$ 5,816.00	$ 5,816.00	$ -	Sinage
ONE	$ 3,575.00	$ 3,575.00	$ -	Legal Services
MCKINZIE METRO APPRAISAL	$ 3,200.00	$ 3,200.00	$ -	Appraisal Services
BNSF RAILWAY CO	$ 2,325.00	$ 2,325.00	$ -	Permits for In-Town Levee Projects
FORUM COMMUNICATIONS (LEGALS)	$ 2,224.20	$ 2,224.20	$ -	Advertising Services
FORUM COMMUNICATIONS (ADVERT)	$ 1,743.77	$ 1,743.77	$ -	Advertising Services
NORTH DAKOTA TELEPHONE CO	$ 1,697.00	$ 1,697.00	$ -	Communication
SEIGEL COMMUNICATIONS SERVICE	$ 1,490.00	$ 1,490.00	$ -	Public Outreach
HUBER, STEVE	$ 1,056.43	$ 1,056.43	$ -	Home Buyouts
DEPT OF NATURAL RESOUR	$ 1,000.00	$ 1,000.00	$ -	DNR Dam Safety Permit Application Fee
TRIO ENVIRONMENTAL CONSULTING	$ 747.60	$ 747.60	$ -	Asbestos and LBP Testing - Home Buyouts
RED RIVER TITLE SERVICES INC	$ 675.00	$ 675.00	$ -	Abstract Updates
BNSF RAILWAY COMPANY	$ 600.00	$ 600.00	$ -	MOU Agreement
CIVIL DESIGN INC	$ 595.00	$ 595.00	$ -	MOU Agreement
RED RIVER VALLEY COOPERATIVE A	$ 536.96	$ 536.96	$ -	Electricity - Home Buyouts
FERRELLGAS	$ 496.00	$ 496.00	$ -	Propane - Home Buyouts
BROKERAGE PRINTING	$ 473.33	$ 473.33	$ -	Custom Printed Forms
DAWSON INSURANCE AGENCY	$ 388.52	$ 388.52	$ -	Property Insurance - Home Buyouts
KOCHMANN, CARTER	$ 315.00	$ 315.00	$ -	Lawn Mowing Services

FM Metropolitan Area Flood Risk Management Project

Cumulative Vendor Payments Since Inception

As of August 31, 2017

Row Labels	Approved Contract/Invoice Amount	Liquidated	Outstanding Encumbrance	Purpose
GALLAGHER BENEFIT SERVICES INC	$ 250.00	$ 250.00	$ -	Job Description Review
DONS PLUMBING	$ 240.00	$ 240.00	$ -	Winterize - Home Buyouts
CURTS LOCK & KEY SERVICE INC	$ 138.10	$ 138.10	$ -	Service Call - Home Buyouts
GOOGLE LOVEINTHEOVEN	$ 116.00	$ 116.00	$ -	Meeting Incidentals
FEDERAL EXPRESS CORPORATION	$ 71.89	$ 71.89	$ -	Postage
Grand Total	**$ 462,490,741.19**	**$ 386,806,439.96**	**$ 75,684,301.23**	

FM Metropolitan Area Flood Risk Management Project
Lands Expense - Life To Date
As of August 25, 2017

Property Address	Purchase Date	Purchase Price	Earnest Deposit	Relocation Assistance	Sale Proceeds	Total
Commercial Relocations - Fargo						
Park East Apartments - 1 2nd St S	6/23/2015	9,002,442.20	-	945,930.84	-	9,948,373.04
Howard Johnson - 301 3rd Ave N	11/2/2015	3,266,079.60	-	3,752,607.61	(1,100.00)	7,017,587.21
Fargo Public School District - 419 3rd St N	3/16/2016	1,903,475.78	-	7,550,036.23	-	9,453,512.01
Oak Terrace Condos - 2 N Terrace N	3/30/2016	5,588.00	-	-	-	5,588.00
Mid America Steel - NP Ave, North	6/21/2016	437,371.41	-	5,370,000.00	-	5,807,371.41
Case Plaza - 117 NP Ave N	1/12/2017	250,449.12	-	-	-	250,449.12
Shakey's Pizza - DFI AP LLC - 203 4th Ave N	3/21/2017	1,002,367.69	-	-	-	1,002,367.69
Home Buyouts - Fargo						
1322 Elm St N	11/19/2014	347,270.27	-	47,168.14	-	394,438.41
1326 Elm St N	12/23/2014	230,196.41	-	8,001.02	-	238,197.43
1341 N Oak St	1/29/2015	309,888.24	-	78,889.24	-	388,777.48
1330 Elm St N	2/12/2015	229,982.44	-	62,362.63	-	292,345.07
18 North Terrace N	4/2/2015	129,698.25	-	44,688.72	-	174,386.97
1318 Elm St N	5/29/2015	229,012.67	-	55,452.01	-	284,464.68
724 North River Road	6/8/2015	204,457.83	-	35,615.30	(10,000.00)	230,073.13
1333 Oak Street N	6/24/2015	238,513.23	-	5,249.00	-	243,762.23
26 North Terrace N	9/11/2015	138,619.58	-	12,620.00	-	151,239.58
16 North Terrace N	9/24/2015	227,987.50	-	96,717.14	-	324,704.64
24 North Terrace N	11/25/2015	182,437.38	-	29,269.60	-	211,706.98
1314 Elm Street N	12/18/2015	225,800.09	-	42,025.00	-	267,825.09
12 North Terrace N	2/9/2016	10,191.00	-	-	-	10,191.00
1313 Elm Street N		350,000.00	-	3,360.00	-	353,360.00
Home Buyouts - Moorhead						
387 170th Ave SW	11/1/2013	281,809.91	-	-	(8,440.00)	273,369.91
16678 3rd St S		214,000.00	-	84,060.80	-	298,060.80
Home Buyouts - Oxbow						
105 Oxbow Drive	11/28/2012	216,651.85	-	-	(181,249.54)	35,402.31
744 Riverbend Rd	12/3/2012	343,828.30	-	2,435.00	-	346,263.30
121 Oxbow Drive	7/31/2013	375,581.20	-	-	(186,918.33)	188,662.87
333 Schnell Drive	9/20/2013	104,087.79	-	-	-	104,087.79
346 Schnell Drive	2/13/2014	512,970.73	-	7,200.00	-	520,170.73
345 Schnell Drive	10/24/2014	478,702.98	-	6,869.44	-	485,572.42
336 Schnell Drive	1/29/2015	310,888.51	-	185,620.00	-	496,508.51
5059 Makenzie Circle	5/21/2015	2,698,226.97	-	10,549.70	-	2,708,776.67
357 Schnell Dr / 760 River Bend Rd	6/18/2015	466,720.80	-	176,524.79	-	643,245.59
349 Schnell Dr / 761 River Bend Rd	6/26/2015	306,725.20	-	309,992.53	-	616,717.73
748 Riverbend Rd / 755 River Bend Rd	9/1/2015	480,784.30	-	205,699.82	-	686,484.12
361 Schnell Dr / 764 River Bend Rd	9/2/2015	490,091.32	-	267,757.65	-	757,848.97
752 Riverbend Rd / 768 River Bend Rd	9/4/2015	469,078.13	-	507,103.56	-	976,181.69
353 Schnell Dr / 772 River Bend Rd	9/11/2015	494,342.87	-	312,212.95	-	806,555.82
SE 1/4-23-137-49 & NW 1/4 SW 1/4 24-137-49 - Heitman	9/30/2015	1,328,151.00	-	-	-	1,328,151.00
350 Schnell Dr / 769 River Bend Rd	12/15/2015	491,024.01	-	279,237.35	-	770,261.36
365 Schnell Drive	1/7/2016	125,077.88	-			125,077.88
852 Riverbend Rd	1/11/2016	1,222,608.19	-	10,891.60		1,233,499.79
334 Schnell Dr / 751 River Bend Rd	1/15/2016	321,089.77	-	284,349.88	-	605,439.65
749 Riverbend Rd / 433 Trent Jones Dr	2/1/2016	598,885.43	-	469,875.64	-	1,068,761.07
326 Schnell Drive	2/19/2016	326,842.17	-	225,073.09	-	551,915.26
309 Schnell Dr / 325 Trent Jones Dr	5/12/2016	539,895.97	-	574,412.28	-	1,114,308.25
810 Riverbend Rd / 787 River Bend Rd	6/6/2016	672,125.84	-	640,625.43	-	1,312,751.27
833 Riverbend Rd / 446 Trent Jones Dr	7/14/2016	801,671.69	-	590,292.66	-	1,391,964.35
328 Schnell Dr / 347 Trent Jones Dr	7/14/2016	320,803.64	-	329,117.70	-	649,921.34
839 Riverbend Road	7/20/2016	1,775,311.60	-	10,631.50	-	1,785,943.10
332 Schnell Dr / 335 Trent Jones Dr	8/2/2016	328,639.47	-	356,643.81	-	685,283.28
317 Schnell Dr / 409 Trent Jones Dr	9/7/2016	548,393.52	-	558,413.52	-	1,106,807.04
330 Schnell Drive	10/4/2016	328,134.82	-	125,072.50	-	453,207.32
329 Schnell Dr / 417 Trent Jones Dr	10/4/2016	549,277.00	-	499,811.00	-	1,049,088.00
321 Schnell Dr / 410 Trent Jones Dr	10/7/2016	471,534.69	-	514,952.53	-	986,487.22
813 Riverbend Rd / 449 Trent Jones Dr	10/14/2016	660,997.62	-	797,937.65	-	1,458,935.27
325 Schnell Drive / 426 Trent Jones Dr	11/3/2016	403,498.66	-	402,935.97	-	806,434.63
844 Riverbend Road	11/11/2016	716,599.40	-	15,118.84	-	731,718.24
828 Riverbend Rd	11/30/2016	955,928.53	-	-	-	955,928.53
341 Schnell Dr / 343 Trent Jones Dr	12/8/2016	480,921.52	-	673,954.16	-	1,154,875.68
840 Riverbend Rd / 442 Trent Jones Dr	12/21/2016	547,075.19	-	423,662.02	-	970,737.21
816 Riverbend Rd / 441 Trent Jones Dr	12/27/2016	567,413.07	-	338,694.70	-	906,107.77
821 Riverbend Rd / 438 Trent Jones Dr	1/13/2017	580,617.35	-	331,100.87	-	911,718.22
805 Riverbend Rd / 776 River Bend Rd	2/10/2017	508,203.01	-	395,757.84	-	903,960.85
808 Riverbend Road / 254 South Schnell Dr	2/24/2017	713,814.95	-	533,475.96	-	1,247,290.91
338 Schnell Dr / 775 River Bend Rd	2/28/2017	560,402.15	-	407,961.34	-	968,363.49
313 Schnell Drive/ 413 Trent Jones Dr	4/7/2017	389,370.50	-	351,029.59	-	740,400.09
337 Schnell Dr / 353 Trent Jones Dr	5/17/2017	456,146.62	-	516,366.89	-	972,513.51
817 Riverbend Road / 421 Trent Jones Dr	In Escrow	(2,571.95)	448,300.00	462,965.50	-	908,693.55
848 Riverbend Rd / 783 River Bend Rd	7/27/2017	475,361.81	306,000.00	1,340,781.00	-	2,122,142.81
843 Riverbend Rd / 445 Trent Jones Dr	In Escrow	-	700,000.00	1,163,752.00	-	1,863,752.00
829 Riverbend Rd / 788 River Bend Rd	7/7/2017	412,438.13	636,000.00	1,307,442.00	-	2,355,880.13
809 Riverbend Rd		112,304.99	-	-	-	112,304.99

FM Metropolitan Area Flood Risk Management Project
Lands Expense - Life To Date
As of August 25, 2017

Property Address	Purchase Date	Purchase Price	Earnest Deposit	Relocation Assistance	Sale Proceeds	Total
Home Buyouts - Hickson						
17495 52nd St SE	4/28/2015	785,747.66	-	27,604.74	-	813,352.40
4989 Klitzke Drive, Pleasant Twp	7/20/2016	245,926.71	-	92,817.44	-	338,744.15
Home Buyouts - Horace						
17471 49th St SE - Campbell - OIN 9403	2/16/2017	883,581.00	-	149,000.00	-	1,032,581.00
17465 49th St SE - Campbell - OIN 9411	2/21/2017	828,561.00	-	158,000.00	-	986,561.00
2914 124th Ave S	12/29/2016	50,981.00	-	-	-	50,981.00
17474 52nd St SE - Leher - OIN 1889/1990/2182	7/11/2017	904,905.00	-	-	-	904,905.00
Home Buyouts - Argusville						
2351 173rd Ave SE - Johnson - OIN 1222	2/6/2017	215,030.91	-	6,912.57	-	221,943.48
Easements - Fargo						
Part of Lot 5 El Zagal Park	10/9/2014	76,000.00	-	-	-	76,000.00
72 2nd St N - Bortnem	4/13/2016	37,020.00	-	-	-	37,020.00
Easements - Oxbow						
Oxbow Parcel 57-0000-10356-070 - Pearson	10/13/2014	55,500.00	-	-	-	55,500.00
Easements - Diversion Inlet Control Structure						
15-0000-02690-020 - Cossette	6/1/2016	476,040.00	-	-	-	476,040.00
64-0000-02730-000 - Sauvageau	6/1/2016	268,020.00	-	-	-	268,020.00
64-0000-02720-000 - Ulstad (Condemnation)		469,874.00	-	-	-	469,874.00
64-0000-027400-000 - Duboard	9/15/2016	177,399.29	-	-	-	177,399.29
64-0000-02700-010 - Rheault	1/31/2017	2,243.06	-	-	-	2,243.06
15-141-49 NW1/4 160.00 AC **12-31-98 COMB FRM 44-0000-00580-000 & 44-0000-00570-000 - Larson Trust (Nygren)	6/20/2017	32,340.00	-	-	-	32,340.00
Southwest corner of County Road 17 S and 112th Avenue S (comdemnation) - SAUVAGEAU LIFE EST.		373,437.00	-	-	-	373,437.00
16835 47 ST SE - Buster Farms LLLP		1,755.00	-	-	-	1,755.00
Easements - Piezometer						
67-0000-12719-010 - Adams - OIN-1201	3/13/2017	1,500.00	-	-	-	1,500.00
Easements - Minesota						
Askegaard Hope Partnership	10/14/2016	1,542,370.79	-	-	-	1,542,370.79
Farmland Purchases						
SE 1/4 11-140-50 (Raymond Twp, ND) - Ueland	1/20/2014	959,840.00	-	-	-	959,840.00
2 Tracts in the E 1/2-2-137-49 - Sorby/Maier	1/24/2014	1,636,230.00	-	-	-	1,636,230.00
3 Tracts NW1/4 1-140-50, NW1/4 11-140-50, & S1/2 25-141-50 - Rust	2/18/2014	3,458,980.70	-	-	-	3,458,980.70
11-140-50 NE1/4 (Raymond Twp) - Diekrager	4/15/2014	991,128.19	-	-	-	991,128.19
NW 1/4 36-141-50 - Monson	5/7/2014	943,560.05	-	-	-	943,560.05
W 1/2 SE 1/4 SW 1/4 & SW 1/4 SW 1/4 2-137-49 - Gorder	5/13/2014	321,386.00	-	-	-	321,386.00
SW 1/4-11-140-50 - Hoglund	7/21/2014	989,706.03	-	-	-	989,706.03
NW 1/4 14-140-50 - Hoglund	10/23/2014	948,782.22	-	-	-	948,782.22
SW 1/4 2-140-50 -Rust	10/29/2014	955,901.00	-	-	-	955,901.00
2-140-50 S 1/2 of NW 1/4 & Lot 4A - Pile	3/4/2015	594,108.00	-	-	-	594,108.00
Fercho Family Farms,	3/25/2015	464,600.00	-	-	-	464,600.00
W 1/2 NW 1/4 2-141-49 - Heiden	4/24/2015	433,409.00	-	-	-	433,409.00
(Raymond Twp) - Henke	6/17/2015	1,196,215.00	-	-	-	1,196,215.00
S1/2 W1/2 NW1/4 - Conyers	8/3/2017	33,150.00	-	-	-	33,150.00
27th St SE, between 169th Ave SE and I-29 - Nelson	8/3/2017	1,024,189.50	-	-	-	1,024,189.50
Peter Biegler, Jr - OIN 9748	7/17/2017	245,185.00	5,000.00	-	-	250,185.00
10-141-49 E1/2 OF E1/2 A 140.20 LESS THAT PT LYING S OF CENLN OF SHEY RIV - Chose	7/28/2017	60,128.07	-	-	-	60,128.07
W 1/2d 1/2 10-141-49 & NW 1/4 10-141-49 - Larson Family Farm Trust	1-Aug-17	1,402,847.99	-	-	-	1,402,847.99
19-141-49 NE 1/4 A 160.00 - Schoenberg Farms	18-Jul-17	3,470,167.12	-	-	-	3,470,167.12
Land Purchases						
Hayden Heights Land, West Fargo ND	10/12/2012	484,016.00	-	-	(730,148.14)	(246,132.14)
Lot 4, Block 4, ND R-2 Urban Renewal Addition, Fargo ND - Professional Associates	5/14/2015	39,900.00	-	-	-	39,900.00
BNSF Railway Company		-	27,000.00	-	-	27,000.00
City of Fargo - OIN 2366 & OIN 2367	3/9/2017	1,314,373.30	-	-	-	1,314,373.30
Edwin and Margaret Ployhart OIN 8852	4/5/2017	5,121.18	-	-	-	5,121.18
Arthur Mathison RT OIN 1994	5/19/2017	750.00	-	-	-	750.00
Ideal Ag Corp OIN 9789 / 9790	5/25/2017	30,120.68	-	-	-	30,120.68
		75,886,335.24	2,122,300.00	35,582,690.29	(1,117,856.01)	112,473,469.52
			-		-	
					Property Management Expense	1,330,060.12
					Grand Total	**$ 113,803,529.64**

FM Metropolitan Area Flood Risk Management Project
In-Town Levee Work
as of August 31, 2017

Vcode #	Descriptions	Contract Amount	Amount Paid
V02801	WP42.A2 - 2nd Street North Pump Station	$ 8,683,649.98	$ 8,683,649.98
V02802	WP-42 (In Town Levees) Materials Testing	$ 828,792.49	$ 828,718.42
V02803	2nd Street Utility Relocation	$ 1,178,781.73	$ 1,178,781.73
V02804	2nd Street Utility Relocation	$ 266,892.07	$ 266,892.07
V02805	WP-42A.1/A.3 - 4th St Pump Station & Gatewell and 2nd St Floodwall S	$ 17,583,287.19	$ 17,496,687.96
V02806	WP42 - Services During Construction	$ 4,932,000.00	$ 4,589,484.04
V02807	In-Town Levee Work	$ 6,637,954.01	$ 5,695,620.54
V02808	Relocation of fiber optic along 2nd Street North	$ 397,906.52	$ 397,906.52
V02809	2nd Street Utility Relocation	$ 586,269.60	$ 586,269.60
V02811	2nd Street & 4th Street Utility Relocations	$ 769,791.73	$ 769,791.73
V02812	WP-42F.1S - 2nd Street North Floodwall, South of Pump Station	$ 16,846,016.47	$ 15,934,350.16
V02813	Park East Apartments Demolition	$ 1,169,651.74	$ 1,169,651.74
V02814	2nd Street Utility Relocation	$ 16,230.00	$ 16,230.00
V02815	2nd Street Utility Relocation	$ 2,660,937.92	$ 2,660,937.92
V02816	WP-42C.1 - In-Town Levees 2nd Street/Downtown Area Demo	$ 907,999.08	$ 907,999.08
V02817	WP-42H.2 - El Zagal Area Flood Risk Management	$ 1,599,646.21	$ 1,598,471.70
V02818	WP-42I.1 - Mickelson Levee Extension	$ 738,880.50	$ 738,880.50
V02819	WP42F.1N - 2nd Street North	$ 13,356,031.40	$ 13,309,100.81
V02820	WP42 - Construction Management Services	$ 851,775.30	$ 851,775.30
V02821	WP42F.2 - 2nd Street South	$ 1,726,847.35	$ 1,625,463.33
V02822	COF - 2016 O&M on Lifts	$ 6,402.85	$ 6,402.85
V02823	WP-42G General Landscaping and Planting	$ 519,954.74	$ -
V01703	In-Town Property Purchases	$ 38,995,736.06	$ 37,544,250.04
		$ 121,261,434.94	$ 116,857,316.02

Fargo-Moorhead Metropolitan Area Flood Risk Management Project
State Water Commission Funds Reimbursement Worksheet
Fargo Flood Control Project Costs - HB1020 & SB2020

Time Period for This Request: July 1, 2017 - July 31, 2017 - OHB Levee Related Costs

Drawdown Request No: 49		
Requested Amount:	**$**	**25,546**
Total Funds Expended This Period:	$	51,093
SB 2020 Matching Requirements		50%
Total Funds Requested at 50% Match		25,546
Total Funds Requested:	**$**	**25,546**

STATE AID SUMMARY:		
Summary of State Funds Appropriated		
Appropriations from 2009 Legislative Session		$ 45,000,000
Appropriations from 2011 Legislative Session		30,000,000
Appropriations from 2013 Legislative Session		100,000,000
Appropriations from 2015 Legislative Session		69,000,000
Appropriations from 2015 Legislative Session - Interior Flood Control		60,000,000
Appropriations from 2017 Legislative Session		66,500,000
Appropriations to be funded in 2019 Legislative Session - Available 7/1/2019	66,500,000	
Appropriations to be funded in 2021 Legislative Session - Available 7/1/2021	66,500,000	
Appropriations to be funded in 2023 Legislative Session - Available 7/1/2023	66,500,000	
Total State Funds	199,500,000	370,500,000
Less: Payment #1 through #35 - City of Fargo		(55,510,209)
Less: Payment #1 - Cass County		(136,039)
Less: Payment #1 through #7 - Interior Flood Control		(60,000,000)
Less: Payment #1 through #28 - FM Diversion Authority		(38,049,107)
Less: Payment #29 - FM Metro Area Flood Risk Management Project		(2,900,000)
Less: Payment #30 - FM Metro Area Flood Risk Management Project		(3,681,747)
Less: Payment #31 - FM Metro Area Flood Risk Management Project		(6,900,000)
Less: Payment #32 - FM Metro Area Flood Risk Management Project		(3,725,044)
Less: Payment #33 - FM Metro Area Flood Risk Management Project		(4,655,547)
Less: Payment #34 - FM Metro Area Flood Risk Management Project		(22,500,000)
Less: Payment #35 - FM Metro Area Flood Risk Management Project		(6,062,680)
Less: Payment #36 - FM Metro Area Flood Risk Management Project		(3,506,589)
Less: Payment #37 - FM Metro Area Flood Risk Management Project		(4,676,079)
Less: Payment #38 - FM Metro Area Flood Risk Management Project		(4,401,701)
Less: Payment #39 - FM Metro Area Flood Risk Management Project		(1,535,060)
Less: Payment #40 - FM Metro Area Flood Risk Management Project		(465,203)
Less: Payment #41 - FM Metro Area Flood Risk Management Project		(3,666,207)
Less: Payment #42 - FM Metro Area Flood Risk Management Project		(1,527,676)
Less: Payment #43 - FM Metro Area Flood Risk Management Project		(31,468)
Less: Payment #44 - FM Metro Area Flood Risk Management Project		(301,262)
Less: Payment #45 - FM Metro Area Flood Risk Management Project		(396,025)
Less: Payment #46 - FM Metro Area Flood Risk Management Project		(457,440)
Less: Payment #47 - FM Metro Area Flood Risk Management Project		(538,830)
Less: Payment #48 - FM Metro Area Flood Risk Management Project		(751,091)
Less: Payment #49 - FM Metro Area Flood Risk Management Project		(25,546)
Total Funds Reimbursed		(226,400,551)
Total State Fund Balances Remaining		**$ 144,099,449**

Fargo-Moorhead Metropolitan Area Flood Risk Management Project
State Water Commission Funds Reimbursement Worksheet
Fargo Flood Control Project Costs - HB1020 & SB2020

LOCAL MATCHING FUNDS SUMMARY:		
Matching Funds Expended To Date - FM Metro Area Flood Risk Management Project	$	75,229,082
Less: Match Used on Payment #1 through #35 - City of Fargo		(41,506,620)
Less: Match used on Payment #1 - Cass County		(136,039)
Less: Match Used on Payment #1-28 - FM Diversion Authority		(11,052,710)
Less: Match Used on Payment #30 - FM Metro Area Flood Risk Management Project		(1,581,147)
Less: Match Used on Payment #32 - FM Metro Area Flood Risk Management Project		(1,215,895)
Less: Match Used on Payment #33 - FM Metro Area Flood Risk Management Project		(2,785,070)
Less: Match Used on Payment #35 - FM Metro Area Flood Risk Management Project		(1,292,963)
Less: Match Used on Payment #36 - FM Metro Area Flood Risk Management Project		(509,507)
Less: Match Used on Payment #37 - FM Metro Area Flood Risk Management Project		(2,741,983)
Less: Match Used on Payment #38 - FM Metro Area Flood Risk Management Project		(3,580,994)
Less: Match Used on Payment #39 - FM Metro Area Flood Risk Management Project		(830,718)
Less: Match Used on Payment #41 - FM Metro Area Flood Risk Management Project		(3,094,610)
Less: Match Used on Payment #45 - FM Metro Area Flood Risk Management Project		(268,071)
Less: Match Used on Payment #47 - FM Metro Area Flood Risk Management Project		(334,847)
Balance of Local Matching Funds Available	**$**	**4,297,907**

Finance Committee Bills through September 21, 2017

Vendor	Description		
Cass County Joint Water Resource District	Diversion bills	$	3,195,089.63
Springsted	Services preliminary to issuance of Cass/Fargo loan agreements	$	28,154.01
Ohnstad Twichell, P.C.	Professional services rendered	$	127,933.73
Total Bills Received through September 21, 2017		$	3,351,177.37

CASS COUNTY GOVERNMENT

Cass County
Joint Water
Resource
District

Mark Brodshaug
Chairman
West Fargo, North Dakota

Rodger Olson
Manager
Leonard, North Dakota

Dan Jacobson
Manager
West Fargo, North Dakota

Ken Lougheed
Manager
Gardner, North Dakota

Jacob Gust
Manager
Fargo, North Dakota

September 1, 2017

Diversion Authority
P.O. Box 2806
Fargo, ND 58108-2806

Greetings:

RE: Metro Flood Diversion Project
DPAC
Oxbow-Hickson-Bakke Ring Levee Project
Oxbow Golf and Country Club

Enclosed please find copies of bills totaling $3,195,089.63 regarding the above referenced projects. The breakdown is as follows:

Metro Flood Diversion	$2,428,869.60
DPAC	1,646.50
Oxbow-Hickson-Bakke Ring Levee	73,418.81
Oxbow Golf and Country Club	691,154.72

At this time, we respectfully request 100% reimbursement as per the Joint Powers Agreement between the City of Fargo, Cass County and Cass County Joint Water Resource District dated June 1, 2015.

According to our records, the previous request dated August 2, 2017, for $9,206,618.47 remains outstanding.

If you have any questions, please feel free to contact us. Thank you.

Sincerely,

CASS COUNTY JOINT WATER RESOURCE DISTRICT

Carol Harbeke Lewis
Secretary-Treasurer

Enclosures

Carol Harbeke Lewis
Secretary-Treasurer

1201 Main Avenue West
West Fargo, ND 58078-1301

701-298-2381
FAX 701-298-2397
wrd@casscountynd.gov
casscountygov.com

METRO FLOOD DIVERSION RIGHT OF ENTRY/LAND ACQUISITION COST SHARE INVOICES Updated 9/1/17

Invoice Paid	Invoice Date	Invoice No.	Project No.	Amount	Vendor	Description
8/10/2017	7/24/2017	151191	100007	431.50	Ohnstad Twichell, P.C.	Legal-FM Diversion - Right of Entry
8/10/2017	7/24/2017	151183	130007	7,717.50	Ohnstad Twichell, P.C.	Legal-Diversion ROW Acquisition
8/10/2017	7/24/2017	151187	160007	14,577.50	Ohnstad Twichell, P.C.	Legal-Channel Phase I
8/10/2017	7/24/2017	151188	160007	7,253.00	Ohnstad Twichell, P.C.	Legal-Channel Phase II
8/10/2017	7/24/2017	151189	160007	1,881.00	Ohnstad Twichell, P.C.	Legal-Channel Phase III
8/10/2017	7/24/2017	151180	90007	2,582.52	Ohnstad Twichell, P.C.	Legal-Basin Project 2009
8/10/2017	7/24/2017	151185	160007	1,948.50	Ohnstad Twichell, P.C.	Legal-Basin Project 2009 - Inlet Structure
8/10/2017	7/18/2017	151526	170007	1,466.00	Ohnstad Twichell, P.C.	Legal-Upstream Mitigation Area
8/10/2017	8/2/2017	716643	38810.00001	1,360.00	Larkin Hoffman	Legal-Sauvageau property acquisition
8/10/2017	8/2/2017	716644	38810.00002	6,868.00	Larkin Hoffman	Legal-Richland County ROE agreements
8/24/2017	8/21/2017	151632	100007	343.50	Ohnstad Twichell, P.C.	Legal-Right of Entry 2017
8/24/2017	8/21/2017	151634	130007	8,112.50	Ohnstad Twichell, P.C.	Legal-Diversion ROW Acquisition
8/24/2017	8/21/2017	151638	160007	17,374.67	Ohnstad Twichell, P.C.	Legal-Channel Phase I
8/24/2017	8/21/2017	151639	160007	210.00	Ohnstad Twichell, P.C.	Legal-Channel Phase II
8/24/2017	8/21/2017	151640	160007	393.50	Ohnstad Twichell, P.C.	Legal-Channel Phase III
8/24/2017	8/21/2017	151631	90007	222.00	Ohnstad Twichell, P.C.	Legal-Basin Project 2009
8/24/2017	8/21/2017	151636	160007	1,443.50	Ohnstad Twichell, P.C.	Legal - Basin Project 2009 - Inlet Structure
8/24/2017	8/21/2017	151642	170007	4,806.50	Ohnstad Twichell, P.C.	Legal-Upstream Mitigation Area
8/24/2017	8/16/2017	16375	18244	262.50	Moore Engineering, Inc.	Engineering - Diversion Authority Utility Easement team
8/4/2017	8/4/2017			1,326,882.11	The Title Company	Property purchase - Heiden Family LLLP
8/4/2017	8/4/2017			614,439.02	The Title Company	Property purchase - Kevin and Pamela Heiden
8/9/2017	8/9/2017			123,563.38	The Title Company	Property purchase - Lloyd Amundson and Lynette Flick
8/18/2017	8/18/2017			254,354.28	The Title Company	Property purchase - Nicole and Christopher Hahn
8/10/2017	8/4/2017	850.04		56.71	Red River Valley Coop Power Assoc	Service to 16678 3rd St S
8/10/2017	8/3/2017	1134578		25.60	Cass County Electric Cooperative	Service to 2351 173 Ave SE
8/10/2017	8/1/2017	66604	R12.00049	30,294.31	Ulteig Engineering	Task Order 2 - project mgmt, ROW, appraisal and on-call services
			Total	**2,428,869.60**		

DIVERSION PROJECT ASSESSMENT DISTRICT (DPAC) INVOICES

Invoice Paid	Invoice Date	Invoice No.	Project No.	Amount	Vendor	Description
8/10/2017	7/24/2017	151182	120007	999.00	Ohnstad Twichell, P.C.	Legal-Diversion Project, Assessment District
8/24/2017	8/21/2017	151633	120007	647.50	Ohnstad Twichell, P.C.	Legal-Diversion Project, Assessment District
			Total	**1,646.50**		

OXBOW-HICKSON-BAKKE RING LEVEE INVOICES

Invoice Paid	Invoice Date	Invoice No.	Purchase Order No.	Project No.	Amount	Vendor	Description
8/10/2017	7/24/2017	151184		140007	7,836.50	Ohnstad Twichell, P.C.	Legal-property acquisition
8/24/2017	8/21/2017	151635		140007	2,509.00	Ohnstad Twichell, P.C.	Legal-property acquisition
8/10/2017	8/1/2017				7,123.00	Jeff and Cathy Anderson	additional closing costs
8/24/2017	8/16/2017				2,299.00	Casey Johnson and Heather Westlund	closing costs
8/10/2017	8/3/2017	1108711			1,519.42	Cass County Electric Cooperative	Service to various addresses
8/10/2017	8/3/2017	1133018			34.92	Cass County Electric Cooperative	Service to 805 Riverbend Rd
8/10/2017	8/3/2017	1125415			148.49	Cass County Electric Cooperative	Service to 808 Riverbend Rd
8/10/2017	8/3/2017	1122560			28.85	Cass County Electric Cooperative	Service to 817 Riverbend Rd
8/24/2017	8/14/2017	1139671			47.51	Cass County Electric Cooperative	Service to 748 Riverbend Rd
08/24/17	08/14/17	1136126			104.94	Cass County Electric Cooperative	Service to 828 Riverbend Rd
8/24/2017	8/14/2017	1140519			130.05	Cass County Electric Cooperative	Service to 829 Riverbend Rd
8/24/2017	8/14/2017	1121701			52.01	Cass County Electric Cooperative	Service to 840 Riverbend Rd
08/10/17	06/30/17	18155		2830-00	26,242.73	ProSource Technologies LLC	Acquisition, relocation, condemnation and const draw for OHB
08/24/17	07/31/17	18232		2830-00	25,271.38	ProSource Technologies LLC	Acquisition, relocation, condemnation and const draw for OHB
08/24/17	08/19/17	5970			71.01	Sentry Security & Investigations	removing signs from property and Security patrol services
				Total	**73,418.81**		

OXBOW GOLF AND COUNTRY CLUB INVOICES

Invoice Paid	Invoice Date	Invoice No.	Project No.	Amount	Vendor	Description
8/10/2017	6/28/2017	15967	18229	1,620.85	Oxbow Golf & Country Club	Engineering - construction staking
8/10/2017	7/26/2017			1,385.60	Oxbow Golf & Country Club	architect expenses
8/10/2017	7/26/2017	17		13,000.00	Oxbow Golf & Country Club	Gary Killebrew - consultant fees
8/10/2017	6/25/2017	21		321,423.89	Oxbow Golf & Country Club	Landscapes Unlimited LLC - construction costs
8/24/2017	8/7/2017			469.76	Oxbow Golf & Country Club	architect expenses
8/24/2017	8/3/2017	18		13,000.00	Oxbow Golf & Country Club	Gary Killebrew - consultant fees
8/24/2017	7/31/2017	22		340,254.62	Oxbow Golf & Country Club	Landscapes Unlimited LLC - construction costs
			Total	**691,154.72**		

IN-TOWN LEVEES INVOICES

Invoice Paid	Invoice Date	Invoice No.	Project No.	Amount	Vendor	Description
			Total	**0.00**		
			Grand Total	**3,195,089.63**		

Springsted Incorporated
380 Jackson Street, Suite 300
Saint Paul, MN 55101-4705

Tel: 651-223-3000
Fax: 651-223-3002
www.springsted.com

August 17, 2017
Project No: 012265.103
Invoice No: 1

Fargo Moorhead Metro Flood Diversion Authority, ND
Box 2806
211 Ninth Street South
Fargo, ND 58108

For Services Preliminary to the Issuance of Cass County and City of Fargo, North Dakota - Loan Agreement of 2017

Professional Personnel

	Hours	Rate	Amount	
Principal, Senior Officer	77.00	260.00	20,020.00	
Officer, Project Manager	34.25	215.00	7,363.75	
Support Staff	5.75	75.00	431.25	
Totals	117.00		27,815.00	
Total Labor				27,815.00
Travel			278.62	
Telephone-Audio/Video Conferencing			60.39	
Total Miscellaneous			339.01	339.01
		Total this Invoice		$28,154.01

I declare under penalty of law that this account is just and correct and that no part of it has been paid.

SPRINGSTED Incorporated

BY: _____

BONNIE C. MATSON

This statement is due on the date that payment is received for the bonds relative to which this billing is made. Commencing 30 days thereafter, interest will be charged at a rate of 1% per month

OHNSTAD TWICHELL, P.C.
Attorneys at Law

901 13th Avenue East, P.O Box 458
West Fargo, ND 58078-0458
701-282-3249

15-15395 JTS Invoice # 151939
Flood Diversion Board
Bond Counsel Work - PPP

Date: 12-Sep-17

To: Flood Diversion Board
P.O Box 2806
Fargo, ND 58108-2806

PROFESSIONAL SERVICES RENDERED

15-1395 JTS Invoice # 151939	Flood Diversion Board	Bond Counsel Work - PPP Research 1	
JTS	110.85	$300.00	$33,255.00
CMM	0.2	$300.00	$60.00
LDA	2.2	$300.00	$660.00
KJB	103.8	$265.00	$27,507.00
TJL	91.5	$250.00	$22,875.00
LWC	9.6	$200.00	$1,920.00
CBC	41.3	$200.00	$8,260.00
MPS	62.5	$175.00	$10,937.50
AJM	85.7	$150.00	$12,855.00
JDR	1.5	$155.00	$232.50
HCG	54.7	$130.00	$7,111.00
LRK	2.2	$150.00	$330.00
LTS	8	$105.00	$840.00
Total	**574.05**		**$126,843.00**
Expenses:			
Mileage - Delivery of Papers to Title Co.			$7.49
Westlaw Maximum Charge			$500.00
USPS Charges			$9.24
Cass County Recorder			$16.00
Photo Copies - 2790 Copies - Local Counsel			$558.00
Total			**$1,090.73**
Grand Total			**$127,933.73**

* Drafting of documents and work streams related to financing, P3, and joint powers agreements.

	2017 Hourly Rates
JTS - John T. Shockley, Partner, Supervising Attorney	$300.00
CMM - Christopher M. McShane, Partner	$300.00
LDA - Lukas D. Andrud, Partner	$300.00
KJB - Katie J. Bertsch, Associate	$265.00
TJL – Tyler J. Leverington, Associate	$250.00
LWC – Luke W. Croaker, Associate	$200.00
CBC – Calley B. Campbell, Associate	$200.00
MPS - Michael P. Sly, Associate	$175.00
AJM - Andrea J. Murphy, Paralegal	$150.00
JDR - Josh D. Roaldson, Paralegal	$155.00
LRK - Lisa R. Kilde - Paralegal	$150.00
HCG - Hannah C. Gilbert, Paralegal	$130.00
LTS - Lynae T. Sims, Legal Administrative Assistant	$105.00

PROFESSIONAL SERVICES RENDERED

15-1395 JTS Invoice # 151939	Flood Diversion Board	Bond Counsel Work - PPP Research 1

FILE NUMBER	MATTER DESCRIPTION	INVOICE TOTAL
151395-0	Bond Counsel Work – PPP - Expenses	$509.24
151395-1	General Topics (Includes General Governance Questions, Notices, ETC.)	$7,370.99
151395-2	Executive Director	$2,130.00
151395-3	P3 Procurement	$28,042.00
151395-4	Public Finance Issues	$22,936.00
151395-5	Consultant Contract Review/Development	$1,125.00
151395-6	Support of External Litigation Counsel	$1,505.00
151395-7	Coordination W/Member Entities	$90.00
151395-8	MNDNR Permit Issues	$300.00
151395-9	Environmental Permitting Issues/NEPA	$90.00
151395-10	Insurance Issues	$315.00
151395-11	Legislative Interface/Lobbying Support	$90.00
151395-12	USACE Interface/Questions	$2,858.50
151395-13	Third Party Utility MOUS	$60,572.00
TOTAL		$127,933.73

Recommended Contracting Actions

Date: September 28, 2017

Description	Company	Budget Estimate ($)
Construction Work Change Directive – Diversion Authority		
WP 43CD-WCD01 – OHB Ring Levee Phases C & D • Removal of unsuitable soil material due to remants of utilities and under footprint of the levee • Additional traffic control measures • Additional excavation near Oxbow Drive and levee crossing • Installation of 16” pipe casing and 8” fusible pipe for the Cass Rural Water utility relocation under the levee	Meyer Contracting	**$285,000.00**
Construction Change Orders – Diversion Authority		
WP 43CD – OHB Ring Levee Phases C & D **Change Order 01** • Add 42-inch pipe heat shrink sleeves • Add additional 42-inch pipe bedding and backfill • Add one (1) day of contract time	Meyer Contracting	**$7,383.47**
WP 28A – County Road 16/17 Road Re-alignment **Change Order 01** • Incorporate WCD 01, topsoil stockpile relocation • Add culvert	Meyer Contracting	**$31,155.84**
Total		**$323,539.31**

Recommended Contracting Actions

Date: September 28, 2017

Description	Company	Budget Estimate ($)
Construction Work Change Directive – Diversion Authority		
WP 43CD-WCD01 – OHB Ring Levee Phases C & D • Removal of unsuitable soil material due to remants of utilities and under footprint of the levee • Additional traffic control measures • Additional excavation near Oxbow Drive and levee crossing • Installation of 16” pipe casing and 8” fusible pipe for the Cass Rural Water utility relocation under the levee	Meyer Contracting	**$285,000.00**

Technical Advisory Group Recommendation

Meeting Date: 09/19/2017

RECOMMENDATION FOR ACTION:

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

SUMMARY OF CONTRACTING ACTION:

Per the contract review and approval procedures that were adapted by the DA on Nov 10, 2016, the PMC or EOR is directed to prepare Work Change Directives (WCDs) and submit them to TAG for review. If the WCD changes the contract price, TAG shall submit it to the Co-Executive Directors for review, and then to Finance Committee and the DA board for approval. But, if swift action is needed due to public safety concerns or to mitigate costs to the public and/or the Diversion Authority (Section 5.A), the Co-Executive Directors can act pursuant to the authority set forth in the approved procedures and make a good faith effort to contact the Diversion Authority Board Chair and the Finance Committee Chair prior to authorizing a contractor to proceed. The PMC and EOR feel approval is needed by the Co-Executive Directors for this WCD to mitigate cost and schedule impacts to the project.

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

Description	Budget Estimate ($)
WP-28A: Meyer Contracting, Inc.	
Work Change Directive No. 01	***$285,000***

- Add removal of unsuitable material (utility trenches, sand and organic matter)
- Add additional traffic control,
- Add additional excavation, and
- Add installation of the Cass Rural Water casing and carrier pipe

Summary of Contracting History and Current Contract Action:

The MFDA awarded the WP-43CD (OHB Ring Levee – Phases C and D) construction contract to Meyer Contracting, Inc. on July 13, 2017.

Since the start of construction, several contract change items have been identified. Due to schedule considerations, an approval of WCD-01 is requested prior to the next MFDA board meeting.

Estimated quantities, agreed to unit prices, and cost proposals have been obtained, but final quantities and costs won't be known until the work is completed. The total cost of the work in WCD-01 is estimated to be approximately $270,000 to $285,000. Once the final costs are established, this WCD will be incorporated into a future change order.

Below is a summary of contracting history to date along with the current contracting action.

Original Agreement or Amendment	Budget ($) Change	Original Project Cost	Revised Project Cost	Project Start	Project Completion	Comments
Original Contract	$0.00	$10,339,476.21		09-Aug-17	31-Oct-18	Contract Award to Meyer Consulting, Inc.

Original Agreement or Amendment	Budget ($) Change	Original Project Cost	Revised Project Cost	Project Start	Project Completion	Comments
Work Change Directive No. 1	$285,000		$10,624476.21	09-Aug-17	31-Oct-18	Add: removal of unsuitable material, additional traffic control, additional excavation, and water line casing and carrier pipe. Final amount to be incorporated into a future change order.

Financial Considerations:

Attached for your review and action is WCD-01. This WCD includes:

1. Remove unsuitable material (utility trenches, sand and organic matter)
    a. Removal of unsuitable soil material under the footprint of the levee due to remnant electrical, communication, sanitary/storm sewer, or water service lines from demolition contracts. Excavated material will be placed in Zone B backfill areas of the 43E.2.E demolition contract.
        i. Work will be done on a time and material basis with an estimated time frame of 3-4 days with 2 scrapers and other misc. equipment. Meyer's 2017 equipment rates are attached.
        ii. The estimated cost of this work is approximately $17,000.00.
        iii. Suitable material will be imported to replace the unsuitable material that was removed.
        iv. Removal of unsuitable material is required to meet levee construction design requirements.
    b. Removal of unsuitable soil material under the footprint of the levee such as sand lenses, excessive organic material, etc. as determined by the geotechnical engineer during inspection trench construction. Unsuitable material will be placed in the spoil area of the golf course rough grade.
        i. The estimated quantity to be removed is 3,000 CY at an agreed to rate of $4.00/CY.
        ii. The estimated cost of this work is approximately $12,000.00.
        iii. Suitable material will be imported to replace the unsuitable material that was removed.
        iv. Removal of unsuitable material is required to meet levee construction design requirements.
2. Additional traffic control
    a. Additional traffic control measures not included in the original Contract Bid Documents. This includes coverings of "Oxbow" wording on Exit 54 signs, adding post mounted signs along Main Avenue, adding skid mounts to existing signs along Main Avenue, add "slow down" signs just north of Bakke Subdivision as agreed to by Cass County Highway Engineers and Pleasant Township.
        i. The estimated cost of additional traffic control measures is approximately $4,000.00.
        ii. Additional traffic control signs and sign covers were added along Interstate 29 to better direct traffic around project area.
3. Additional pond excavation
    a. In order to better accommodate construction schedules of both Meyer Contracting and Landscapes Unlimited (the Oxbow Country Club (OCC) golf course contractor), it was negotiated that Meyer Contracting will excavate the remaining portion of the golf course pond near Oxbow

Drive. The excavated material will be placed in the spoil area of the golf course rough grade for Landscapes Unlimited to fine grade.

i. The estimated quantity to be removed is 2,000 CY at an agreed to rate of $4.00/CY.

ii. The estimated cost of this work is approximately $8,000.00.

iii. This work has been removed from the OCC golf course contract.

4. Installation of the Cass Rural Water Users District (CRWD) casing and carrier pipe

   a. In order to minimize delay on the construction of the levee on the west side of County Road 81, the following portion of the CRWD utility relocation, under the footprint of the levee, will be furnished and installed by Meyer Contracting, Inc: 16-inch steel casing pipe and 8-inch fusible PVC pipe for the CRWD utility relocation under the levee near Station B125+25 on the west side of County Road 81. Work will also include installation of the cathodic protection and temporary connection to the existing 6-inch waterline.

      i. Due to CRWD's scheduling, CRWD requested Meyer Contracting, Inc. to install the 16-inch casing pipe and 8-inch fusible PVC in order to minimize delay on the construction of the levee on the west side of County Road 81.

      ii. This work has been removed from the CRWD utility relocation package (a separate contracting action request).

      iii. The estimated cost of this work is approximately $243,000.00.

The PMC and the EOR have reviewed WCD-01 and feel the proposed costs and level of effort are reasonable. This change amount of approximately $285,000 is included within the FY-2017 MFDA budget.

ATTACHMENT(S):

1. Draft WCD-01

Submitted by:

John W. Glatzmaier

John Glatzmaier
CH2M
Metro Flood Diversion Project

September 19, 2017
Date

Nathan Boerboom, Diversion Authority Project Manager
Concur: *September 19, 2017* *Non-Concur:* _____

Robert Zimmerman, Moorhead City Engineer
Concur: *September 19, 2017* *Non-Concur* _____

Mark Bittner, Fargo Director of Engineering
Concur: *September 19, 2017* *Non-Concur:* _____

Jason Benson, Cass County Engineer
Concur: *September 19, 2017* *Non-Concur* _____

David Overbo, Clay County Engineer
Concur: *September 18, 2017* *Non-Concur:* _____

Jeff Ebsch, Assistant Cass County Engineer, Diversion Authority Project Manager
Concur: *September 19, 2017* *Non-Concur* _____

Submitted by: Co-Executive Directors

Date

Michael J. Redlinger Fargo Assistant City Administrator	Robert W. Wilson Cass County Administrator
Concur: *Non-Concur:*	*Concur:* *Non-Concur*

METRO FLOOD DIVERSION PROJECT

WORK CHANGE DIRECTIVE 01

TO: Meyer Contracting PROJECT NO.: WP-43CD

PROJECT: OHB Ring Levee – Phases C and D (Levee, Pump Station, Road and Utility Improvements)

OWNER: Metro Flood Diversion Authority

ENGINEER: Houston-Moore Group

OWNER'S REPRESENTATIVE: CH2M

DESCRIPTION OF WORK:

The work includes:

1 – Removal of unsuitable soil material under the footprint of the levee due to remant electrical, communication, sanitary/storm sewer, or water service lines from demolition contracts. Excavated material will be placed in Zone B backfill areas of the 43E.2.E demolition contract. Work will be done on a T & M basis with an estimated time frame of 3-4 days with 2 scrapers and other misc. equipment. 2017 equipment rates are attached to this WCD.
2 – Removal of unsuitable soil material under the footprint of the levee such as sand lenses, excessive organic material, etc. as determined by the geotechnical engineer during inspection trench construction. Unsuitable material will be placed in the spoil area of the golf course rough grade. Estimated quantity to be removed is 3,000 CY at a rate of $4.00/CY.
3 – Additional traffic control measures not included in the original Contract Bid Documents. This included coverings of "Oxbow" wording on Exit 54 signs, adding post mounted signs along Main Avenue, adding skid mounts to existing signs along Main Avenue, add "slow down" signs just north of Bakke Subdivision as agreed to by Cass County Highway Engineers and Pleasant Township. Estimated cost of additional traffic control measures is $3,885.00.
4 – OCC golf course excavation near Oxbow Drive and levee crossing. Excavated material will be placed in the spoil area of the golf course rough grade for LU to fine grade. Estimated quantity to be removed is 2,000 CY at a rate of $4.00/CY.
5 – Installation of 16" steel casing pipe and 8" fusible PVC pipe for the Cass Rural Water utility relocation under the levee near Station B125+25 on the west side of County Road 81. Work will also include installation of the cathodic protection and temporary connection to the existing 6" waterline. Estimated cost to be $242,908.08 as indicated in the September 14, 2017 Bid Proposal received from Meyer Contracting, Inc. (see attached).

REASON FOR CHANGE(S):

1. Due to remant electrical, communication, sanitary/storm sewer, or water service lines from the demolition contracts, Meyer needed to remove these utilities prior to constructing the levee.
2. Due to unsuitable material found during construction of the inspection trench, material was removed and suitable levee embankment material was installed.
3. Additional traffic control signs and sign covers were added along Interstate 29 to better direct traffic around project area.
4. In order to better accommodate construction schedules of both Meyer Contracting and Landscapes Unlimited, Meyer Contracting will excavate the remaining portion of the golf course pond near Oxbow Drive.

5. Due to Cass Rural Water's scheduling, Cass Rural Water requested Meyer Contracting, Inc. to install the 16" casing pipe and 8" fusible PVC in order to minimize delay on the construction of the levee on the west side of County Road 81.

ATTACHMENTS (List Supporting Documents):

1. Meyer Contracting 2017 Equipment Rates (4 pages)
2. Traffic Control Drawing updates (5 pages)
3. Meyer Contracting September 14, 2017 Bid Proposal for CRW work (2 pages)

DESIGN IMPACT (List Impacts):

Is the described change outside of the design parameters? ☐ Yes / ☒ No

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

Christopher Gross 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		*Owner*	
Nathan Boerboom *Engineer, City of Fargo*	*Date* 9/20/2017	*Michael J. Redlinger/Robert W. Wilson* *Co-Executive Director*	*Date* 9/20/17

Copy: Owner
Designer of Record
USACE
Owner's Representative

Meyer Contracting Equipment Rates

January 1, 2017 - December 31, 2017

Skid loaders/Multi-terrain loaders	T&M rate (w/op)
259 multi-terrain loader	$123.00
259 multi-terrain loader w/jackhammer	$142.00
259 multi-terrain loader w/auger	$142.00
259 multi-terrain loader w/sweeper	$142.00
259 multi-terrain loader w/silt fence plow	$142.00
259 multi-terrain loader w/soil conditioner	$142.00
259 multi-terrain loader w/angle blade	$142.00
259 multi-terrain loader w/cold planer	$142.00
259 multi-terrain loader w/tiller	$142.00
259 multi-terrain loader w/brush mower	$142.00
259 multi-terrain loader w/smooth drum compactor	$142.00
279 multi-terrain loader	$137.00
279 multi-terrain loader w/listed attachments above	$156.00
262 skid loader	$133.00
262 skid loader w/listed attachments above	$152.00
Excavators	**T&M rate (w/op)**
PC35MR Komatsu excavator	$127.00
KX161 Kubota excavator	$127.00
KX161 Kubota excavator w/jackhammer	$148.00
PC78MR Komatsu excavator	$139.00
308E Caterpillar excavator	$139.00
308E Caterpillar excavator w/jackhammer	$195.00
308E Caterpillar excavator w/hydraulic compactor	$193.00
EX160LC Hitachi excavator	$144.00
PC200LC or PC228LC Komatsu excavator	$192.00
PC200LC or PC228LC Komatsu excavator w/jackhammer	$223.00
PC200LC or PC228LC Komatsu excavator w/hydraulic compactor	$223.00
PC200LC or PC228LC Komatsu excavator w/compaction wheel	$213.00
PC200LC Komatsu excavator w/helical anchor drill	$215.00
PC228LC Komatsu excavator w/ripper tooth	$204.00
790D John Deere excavator	$191.00
336EL Caterpillar excavator	$221.00
336EL Caterpillar excavator w/ripper tooth	$232.00
336EL Caterpillar excavator w/compaction wheel	$232.00
PC360LC-10 Komatsu excavator	$221.00
PC360LC-10 Komatsu excavator w/ripper tooth	$232.00
EC460CL or EC480CL Volvo excavator	$251.00
EC460CL or EC480CL Volvo excavator w/compaction wheel	$262.00
PC400 Komatsu excavator	$251.00
PC400 Komatsu excavator w/concrete pulverizer	$288.00

PC400 Komatsu excavator w/ripper tooth	$262.00
PC400 Komatsu excavator w/compaction wheel	$262.00
349EL Caterpillar excavator - variable gauge	$261.00
Dozers	**T&M rate (w/op)**
D5KLGP Caterpillar dozer	$155.00
D5KLGP Caterpillar dozer w/GPS system	$173.00
700JLGP John Deere dozer	$155.00
700JLGP John Deere dozer w/GPS system	$173.00
D51 Komatsu dozer	$155.00
D51 Komatsu dozer w/GPS system	$173.00
850K John Deere dozer	$155.00
850C John Deere dozer	$180.00
D61PX Komatsu dozer	$175.00
D65 Komatsu dozer	$180.00
D65 Komatsu dozer w/GPS system	$198.00
D6TXW or D6TLGP Caterpillar dozer	$180.00
D6TXW or D6TLGP Caterpillar dozer w/GPS system	$198.00
D6NLGP Caterpillar dozer	$175.00
D6NLGP Caterpillar dozer w/GPS system	$193.00
Loaders	**T&M rate (w/op)**
L70F Volvo wheel loader	$147.00
950G, H or K Caterpillar wheel loader	$166.00
L120E Volvo wheel loader	$166.00
L110E or F Volvo wheel loader	$166.00
953C Caterpillar track loader	$152.00
Scrapers	**T&M rate (w/op)**
621B Caterpillar scraper	$198.00
621B Caterpillar scraper w/GPS	$216.00
Motor Graders	**T&M rate (w/op)**
140H, 143H or 140M Caterpillar motor grader	$167.00
140H, 143H or 140M Caterpillar motor grader w/GPS	$185.00
Compactors	**T&M rate (w/op)**
54" smooth drum or sheepsfoot compactor	$127.00
66" smooth drum or sheepsfoot compactor	$130.00
84" smooth drum or sheepsfoot compactor	$145.00
RT-820 Wacker vibratory walk behind compactor - no operator	$36.00
Wacker plate compactor - no operator	$17.00
Offroad trucks	**T&M rate (w/op)**
A30 Volvo articulated truck	$211.00
HM400 Komatsu articulated truck	$237.00
A40F Volvo articulated truck	$237.00
A30 Volvo articulated water tanker truck	$210.00

Pumps	T&M rate (w/op)
8" MWI dewatering pump - no operator	$45.00
4" Hydra-Tech hydraulic pump - no operator	$45.00
Farm equipment	**T&M rate (w/op)**
JX80U Case farm tractor	$140.00
JX80U Case farm tractor w/box blade	$148.00
JX80U Case farm tractor w/Landpride brilliant seeder	$147.00
JX80U Case farm tractor w/3-point spreader	$138.00
JX80U Case farm tractor w/silt fence plow	$155.00
JX80U Case farm tractor w/strawpress	$148.00
Large farm tractor	$179.00
Large farm tractor w/box blade	$186.00
Large farm tractor w/construction disk	$189.00
Large farm tractor w/water tanker trailer	$188.00
Forklifts/Telehandlers	**T&M rate (w/op)**
Shop style forklift	$118.00
TH63 Caterpillar telehandler	$163.00
DL12 Gehl telehandler	$163.00
TH360B Caterpillar telehandler	$163.00
Telehandler w/work platform	$170.00
Mobilization	**T&M rate (w/op)**
Lowboy tractor & trailer	$213.00
Boom truck	$158.00
Escort vehicle	$118.00
On road trucks & trailers	**T&M rate (w/op)**
Single-axle dump truck	$130.00
Equipment service truck	$149.00
Tractor (no trailer)	$150.00
Skid loader trailer - no operator	$13.00
Vac trailer (pull behind) - no operator	$33.00
Truck mounted drill rig	$124.00
Concrete mixer truck	$125.00
Water truck	$135.00
1 ton flatbed or 1 ton pickup truck - no operator	$29.00
Pickup truck - no operator	$25.00
Fuel truck	$133.00
Sport utility vehicle or car	$30.00
Accessories/Miscellaneous equipment	**T&M rate (w/op)**
Topcon GPS rover setup - no operator	$28.00
Pro Tough 400 screener - no operator	$79.00
Grizzly screen - no operator	$27.00
Kymco/Bobcat offroad vehicle - no operator	$20.00

Concrete mixer - no operator	$15.00
Concrete bucket - no operator	$13.00
Portable concrete saw (walk behind) - no operator (blades additional charge)	$24.00
Cellular concrete foam generator - no operator	$20.00
185CFM-250CFM air compressor - no operator	$33.00
375CFM air compressor - no operator	$37.00
20KW-59KW generator - no operator	$45.00
Trench box - no operator	$8.00
G1 trench shoring system - no operator	$25.00
Rock box - no operator	$4.00
Cable roller - no operator	$14.00
Ground-thaw unit - no operator	$45.00
Fuel trailer/skid - no operator	$6.00
Jobsite tool trailer/container - no operator	$12.00
Portable welder - no operator, materials not included	$15.00
Broce RJ300 street sweeper (throw broom)	$130.00
Light plant - no operator	$26.00
75P boring machine - no operator	$15.00
Office trailer/warming shack - no operator	$12.00
Employee travel charge	$75.00 daily
Employee travel charge - North Dakota	$120.00 daily

Personnel Description	**T&M rate**
General Superintendent/Superintendent	**$101.00**
Overtime	$135.00
Double time	$159.00
Carpenter/Cement Mason	**$91.00**
Overtime	$125.00
Double time	$149.00
Laborer	**$77.00**
Overtime	$109.00
Double time	$130.00
Driver/Mechanic	**$76.00**
Overtime	$102.00
Double time	$125.00
Operator	**$86.00**
Overtime	$125.00
Double time	$147.00
Surveyor w/equipment	**$130.00**
Overtime	$165.00
Double time	$186.00
Piledriver	**$91.00**
Overtime	$125.00
Double time	$149.00

Summary of Revisions to Traffic Control Plans
Rev. 8/23/2017
OHB Levee
WP-43CD

Section 100 Sheet 1

1. Revised R11-2-48 from 476 Units to 504 Units.
2. Revised R11-4a-60 from 93 Units to 155 Units.
3. Added SS1 for 40 Units.
4. Revised 704-1000 from 3923 Total Units to 4053 Total Units.
5. Revised 704-1052 from 23 EA to 27 EA.

Section 100 Sheet 3

1. Added Type III Barricades and Sign #62 on Paul Bunyan Drive.
2. Added a call showing the Type III Barricades and Sign #62 to be moved from the grade raise to South of Oxbow Drive work limits as contractor operations dictate.

Section 100 Sheet 4

1. Added SS1 as Sign #63.
2. Added requirements to cover a portion of the Existing Exit 54 Guide Signs (3 total signs).
3. Added requirements to cover the existing guide sign at CR 16 and CR 81 intersection.

Section 100 Sheet 5

1. Added Construction Sign Detail Sheet for SS1.

Revised (2)

STATE	PROJECT NO.	SECTION NO.	SHEET NO.
ND	WP-43CD	100	1

SIGN NUMBER	SIGN SIZE	DESCRIPTION	AMOUNT REQUIRED BY PHASE NO. NR	L	MA		T	TOTAL AMOUNT REQUIRED	UNITS PER AMOUNT	UNITS SUB TOTAL
D3-36	**36"x6"**	**STREET NAME SIGN (Sign and installation only)**		**4**			**4**	**4**	**6**	**24**
G20-1-60	60"x24"	ROAD WORK NEXT __ MILES							34	
G20-1b-60	60"x24"	WORK IN PROGRESS/ NO WORK IN PROGRESS (Sign and installation only)							26	
G20-2-48	**48"x24"**	**END ROAD WORK**	**2**				**2**	**2**	**19**	**38**
G20-4-36	36"x18"	PILOT CAR FOLLOW ME (Mounted to back of pilot car)							18	
G20-10-108	108"x48"	CONTRACTOR SIGN							64	
G20-50a-72	72"x36"	ROAD WORK NEXT __ MILES RT & LT ARROWS							37	
G20-52a-72	72"x24"	ROAD WORK NEXT __ MILES RT or LT ARROW							30	
G20-55-96	96"x48"	SPEED LIMIT ENFORCED - MINIMUM FEE $80 WHEN WORKERS PRESENT							59	
G20-36	**36"x24"**	**WORK ZONE BUSINESS SIGN DETAILS (Standard Drawing D-704-4)**		**31**			**31**	**31**	**16**	**496**
M1-1-36	36"x36"	INTERSTATE ROUTE MARKER (Post and installation only)							10	
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	
M1-6-24	**24"x24"**	**COUNTY 81 ROUTE MARKER (Post and Installation Only)**	**43**	**10**			**53**	**53**	**10**	**530**
M1-6-24	24"x24"	COUNTY 18 ROUTE MARKER (Post and Installation Only)							10	
M3-1-24	**24"x12"**	**NORTH (Mounted on route marker post)**	**25**	**9**			**34**	**34**	**7**	**238**
M3-2-24	24"x12"	EAST (Mounted on route marker post)							7	
M3-3-24	**24"x12"**	**SOUTH (Mounted on route marker post)**	**18**	**3**			**21**	**21**	**7**	**147**
M3-4-24	24"x12"	WEST (Mounted on route marker post)							7	
M4-5-24	24"x12"	TO (Mounted on route marker post)							7	
M4-8-24	**24"x12"**	**DETOUR (Mounted on route marker post)**	**41**	**6**			**47**	**47**	**7**	**329**
M4-8a-24	**24"x36"**	**END DETOUR (Mounted on route marker post)**		**1**			**1**	**1**	**11**	**11**
M4-9-30	30"x24"	DETOUR ARROW RIGHT or LEFT/AHD AND RT or LT							15	
M4-10-48	**48"x18"**	**DETOUR ARROW RIGHT or LEFT**	**2**				**2**	**2**	**23**	**46**
M5-1-21	**21"x15"**	**ARROW AHD AND RT or LT(Mounted on route marker post)**	**15**				**15**	**15**	**7**	**105**
M5-2-21	**21"x15"**	**ARROW AHD UP & RT or LT (Mounted on route marker post)**	**2**				**2**	**2**	**7**	**14**
M6-1-21	**21"x15"**	**ARROW RT or LT (Mounted on route marker post)**	**15**	**33**			**48**	**48**	**7**	**336**
M6-2-21	**21"x15"**	**ARROW UP & RT or LT (Mounted on route marker post)**	**2**				**2**	**2**	**7**	**14**
M6-3-21	**21"x15"**	**ARROW AHD (Mounted on route marker post)**	**1**	**18**			**19**	**19**	**7**	**133**
R1-1-30	**30"x30"**	**STOP**		**2**			**2**	**2**	**17**	**34**
R1-1-48	48"x48"	STOP							32	
R1-1a-18	18"x18"	STOP and SLOW PADDLE Back to Back							5	
R1-2-60	60"x60"	YIELD							29	
R2-1-24	24"x30"	SPEED LIMIT							15	
R2-1-48	**48"x60"**	**SPEED LIMIT __**	**2**				**2**	**2**	**39**	**78**
R2-1a-24	24"x18"	MINIMUM FEE $80 (Mounted on Speed Limit post)							10	
R3-7-48	48"x48"	LEFT or RIGHT LANE MUST TURN LEFT or RIGHT							35	
R4-1-48	48"x60"	DO NOT PASS							39	
R4-7-48	48"x60"	KEEP RIGHT SYMBOL							39	
R5-1-48	48"x48"	DO NOT ENTER							35	
R5-2-24	**24"x24"**	**NO TRUCKS**		**1**			**1**	**1**	**14**	**14**
R6-1-36	36"x12"	ONE WAY RIGHT or LEFT							13	
R7-1-12	12"x18"	NO PARKING							11	
R10-6-24	24"x36"	STOP HERE ON RED							16	
R11-2-48	**48"x30"**	**ROAD CLOSED**	**3**	**15**			**18**	**18**	**28**	**504**
R11-2a-48	48"x30"	STREET CLOSED							28	
R11-3a-60	**60"x30"**	**ROAD CLOSED __ MILES AHEAD LOCAL TRAFFIC ONLY**	**4**				**4**	**4**	**31**	**124**
R11-3c-60	60"x30"	STREET CLOSED __ MILES AHEAD LOCAL TRAFFIC ONLY							31	
R11-4a-60	**60"x30"**	**STREET CLOSED TO THRU TRAFFIC**		**3**	**2**		**5**	**5**	**31**	**155**
R14-1-24	**24"x18"**	**TRUCK ROUTE**		**2**			**2**	**2**	**13**	**26**
W1-3-48	48"x48"	RIGHT or LEFT SHARP REVERSE CURVE ARROW							35	
W1-4-48	48"x48"	RIGHT or LEFT REVERSE CURVE ARROW							35	
W1-4b-48	48"x48"	DOUBLE RIGHT or LEFT REVERSE CURVE ARROW							35	
W1-6-48	48"x24"	LARGE ARROW							26	
W3-1-48	48"x48"	STOP AHEAD SYMBOL							35	
W3-3-48	48"x48"	SIGNAL AHEAD SYMBOL							35	
W3-4-48	48"x48"	BE PREPARED TO STOP							35	
W3-5-48	**48"x48"**	**SPEED REDUCTION AHEAD**	**1**				**1**	**1**	**35**	**35**
W4-2-48	48"x48"	RIGHT or LEFT LANE TRANSITION SYMBOL							35	
W5-1-48	**48"x48"**	**ROAD NARROWS**	**1**				**1**	**1**	**35**	**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 SYMBOL							35	
W8-1-48	48"x48"	BUMP							35	
W8-3-48	48"x48"	PAVEMENT ENDS							35	
W8-7-48	48"x48"	LOOSE GRAVEL							35	
W8-9a-48	48"x48"	SHOULDER DROP-OFF							35	
W8-11-48	48"x48"	UNEVEN LANES							35	
W8-12-48	48"x48"	NO CENTER STRIPE							35	
W8-53-48	48"x48"	TRUCKS ENTERING HIGHWAY							35	
W8-54-48	48"x48"	TRUCKS ENTERING AHEAD or __ FT.							35	
W8-55-48	48"x48"	TRUCKS CROSSING AHEAD or __ FT.							35	
W8-56-48	48"x48"	TRUCKS EXITING HIGHWAY							35	
W9-3a-48	48"x48"	CENTER LANE CLOSED SYMBOL							35	
W12-2-48	48"x48"	LOW CLEARANCE SYMBOL							35	
W13-1-24	24"x24"	__ MPH ADVISORY SPEED PLATE (Mounted on warning sign post)							11	
W13-4-48	48"x60"	RAMP ARROW							39	
W14-3-48	48"x36"	NO PASSING ZONE							23	
W20-1-48	**48"x48"**	**ROAD WORK AHEAD or _FT or _ MILE**	**2**				**2**	**2**	**35**	**70**
W20-2-48	**48"x48"**	**DETOUR AHEAD or __ FT**	**6**	**4**			**10**	**10**	**35**	**350**
W20-3-48	**48"x48"**	**ROAD or STREET CLOSED AHEAD or __ FT.**	**3**				**3**	**3**	**35**	**105**
W20-4-48	48"x48"	ONE LANE ROAD AHEAD or __ FT.							35	

SIGN NUMBER	SIGN SIZE	DESCRIPTION	AMOUNT REQUIRED BY PHASE NO. NR	L	MA		T	TOTAL AMOUNT REQUIRED	UNITS PER AMOUNT	UNITS SUB TOTAL
W20-5-48	48"x48"	RIGHT or LEFT LANE CLOSED AHEAD or __ FT.							35	
W20-7a-48	48"x48"	FLAGGING SYMBOL							35	
W20-7k-24	24"x18"	__ FEET (Mounted on warning sign post)							10	
W20-8-48	48"x48"	STREET CLOSED							35	
W20-51-48	48"x48"	EQUIPMENT WORKING							35	
W20-52-54	54"x12"	NEXT __ MILES (Mounted on warning sign post)							12	
W21-1a-48	48"x48"	WORKERS SYMBOL							35	
W21-2-48	48"x48"	FRESH OIL							35	
W21-3-48	48"x48"	ROAD MACHINERY AHEAD or __ FT							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.							35	
W21-6a-48	48"x48"	SURVEY CREW AHEAD							35	
W21-50-48	48"x48"	BRIDGE PAINTING AHEAD or __ FT.							35	
W21-51-48	48"x48"	MATERIAL ON ROADWAY							35	
W22-8-48	48"x48"	FRESH OIL LOOSE ROCK							35	
	24"x24"	**TAKE TURNS (6" D letters) (Mounted on stop sign post)**		**2**			**2**	**2**	**11**	**22**

SPECIAL SIGNS

SS1	**42"x72"**	**OXBOW EXIT 50**	**1**				**1**	**1**	**40**	**40**

SPEC & CODE

704-1000	**TRAFFIC CONTROL SIGNS**	**TOTAL UNITS 4053**

SPEC & CODE	DESCRIPTION	UNIT	QUANTITY BY PHASE NO. NR	L	MA		T	TOTAL QUANTITY
704-0100	FLAGGING	MHR						
704-1041	ATTENUATION DEVICE-TYPE B-55	EACH						
704-1043	ATTENUATION DEVICE-TYPE B-65	EACH						
704-1044	ATTENUATION DEVICE-TYPE B-70	EACH						
704-1050	TYPE I BARRICADES	EACH						
704-1051	TYPE II BARRICADES	EACH						
704-1052	**TYPE III BARRICADES**	EACH	**10**	**15**	**2**		**27**	**27**
704-1060	**DELINEATOR DRUMS**	EACH	**25**				**25**	**25**
704-1065	TRAFFIC CONES	EACH						
704-1067	**TUBULAR MARKERS**	EACH	**31**	**50**			**81**	**81**
704-1070	DELINEATOR	EACH						
704-1072	FLEXIBLE DELINEATORS	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						
704-1088	SEQUENCING ARROW PANEL - TYPE C - CROSSOVER	EACH						
704-1095	TYPE B FLASHERS	EACH						
704-1500	OBLITERATION OF PVMT MK	SF						
704-3501	PORTABLE PRECAST CONCRETE MED BARRIER	LF						
704-3510	PRECAST CONCRETE MED BARRIER - STATE FURNISHED	EACH						
704-4011	**PORTABLE CHANGEABLE MESSAGE SIGN**	EACH	**2**					**2**
762-0200	RAISED PAVEMENT MARKERS	EACH						
762-0420	SHORT TERM 4IN LINE - TYPE R	LF						
762-0430	SHORT TERM 4IN LINE - TYPE NR	LF						
772-2110	FLASHING BEACON - POST MOUNTED	EACH						

NOTE:
If additional signs are required, units will be calculated using the formula from Section III-19.06 of the Design Manual.
http://www.dot.nd.gov/

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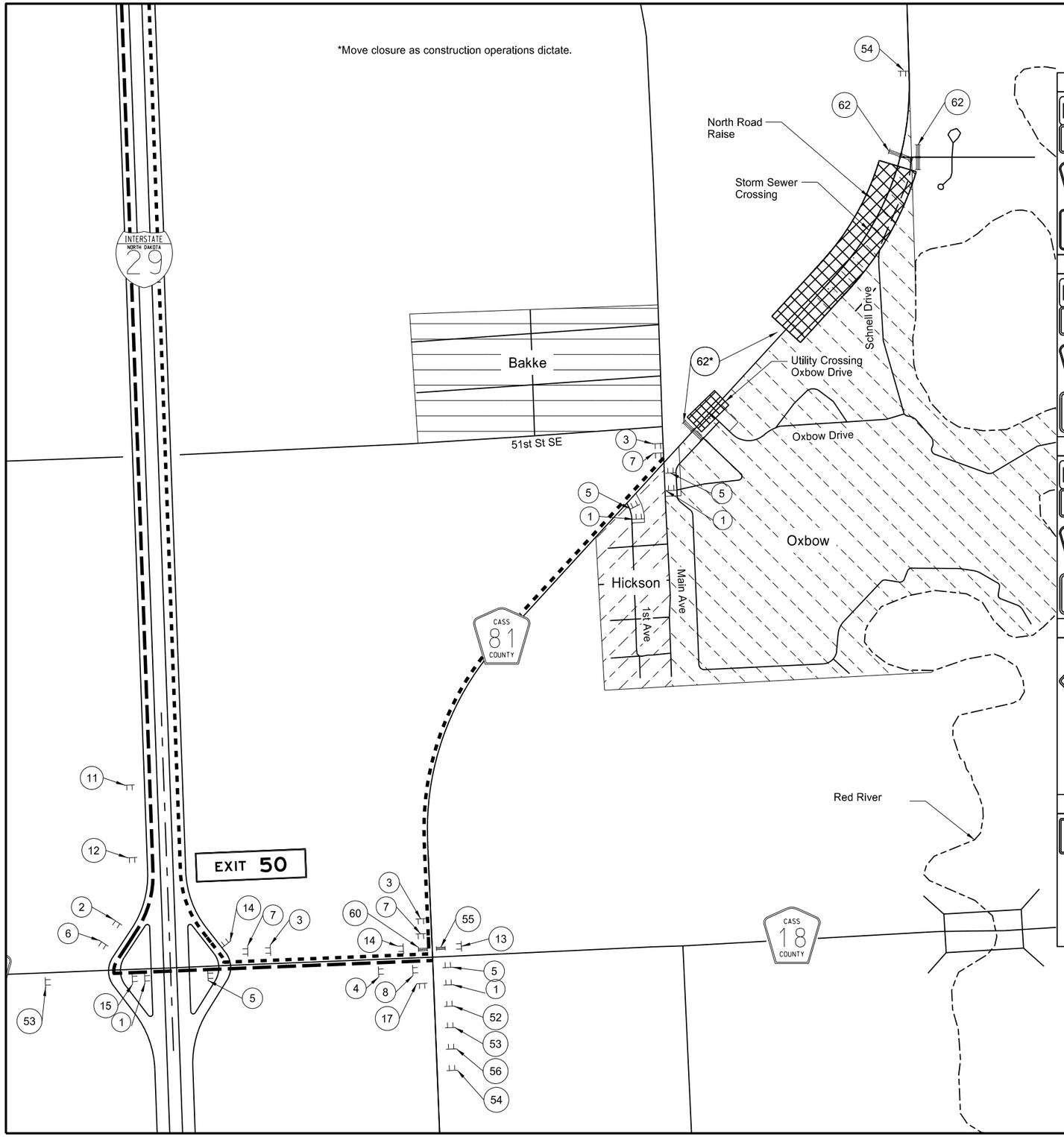
Traffic Control Devices List

Revised 8/22/17	STATE	PROJECT NO.	SECTION NO.	SHEET NO.
	ND	WP-43CD	100	3

*Move closure as construction operations dictate.



1	2	3	4	5
DETOUR M4-8-24 NORTH M3-1-24 CASS 81 COUNTY M1-6-24 M5-1L-21	DETOUR M4-8-24 SOUTH M3-3-24 CASS 81 COUNTY M1-6-24 M5-1L-21	DETOUR M4-8-24 NORTH M3-1-24 CASS 81 COUNTY M1-6-24 M5-1R-21	DETOUR M4-8-24 SOUTH M3-3-24 CASS 81 COUNTY M1-6-24 M5-1R-21	DETOUR M4-8-24 NORTH M3-1-24 CASS 81 COUNTY M1-6-24 M6-1L-21
6	**7**	**8**	**11**	**12**
DETOUR M4-8-24 SOUTH M3-3-24 CASS 81 COUNTY M1-6-24 M6-1L-21	DETOUR M4-8-24 NORTH M3-1-24 CASS 81 COUNTY M1-6-24 M6-1R-21	DETOUR M4-8-24 SOUTH M3-3-24 CASS 81 COUNTY M1-6-24 M6-1R-21	DETOUR M4-8-24 SOUTH M3-3-24 CASS 81 COUNTY M1-6-24 M5-2R-21	DETOUR M4-8-24 SOUTH M3-3-24 CASS 81 COUNTY M1-6-24 M6-2R-21
13	**14**	**15**	**17**	**52**
DETOUR M4-8-24 NORTH M3-1-24 CASS 81 COUNTY M1-6-24 M6-3-21	DETOUR M4-8-24 NORTH M3-1-24 CASS 81 COUNTY M1-6-24	DETOUR M4-8-24 SOUTH M3-3-24 CASS 81 COUNTY M1-6-24	SOUTH M3-3-24 CASS 81 COUNTY M1-6-24	DETOUR 500 FT W20-2-48
53	**54**	**55**	**56**	**60**
DETOUR 1500 FT W20-2-48	ROAD CLOSED AHEAD W20-3-48	ROAD CLOSED 1.5 MILE AHEAD LOCAL TRAFFIC ONLY R11-3A-60 Barricade Mounted	ROAD CLOSED 1.5 MILE AHEAD LOCAL TRAFFIC ONLY R11-3A-60	DETOUR M4-10-48 Barricade Mounted
62				
ROAD CLOSED R11-2-48 Barricade Mounted				

Work Area

Northbound Detour Route

Southbound Detour Route

River Crossing

All signs shall be post mounted unless stated otherwise.

N

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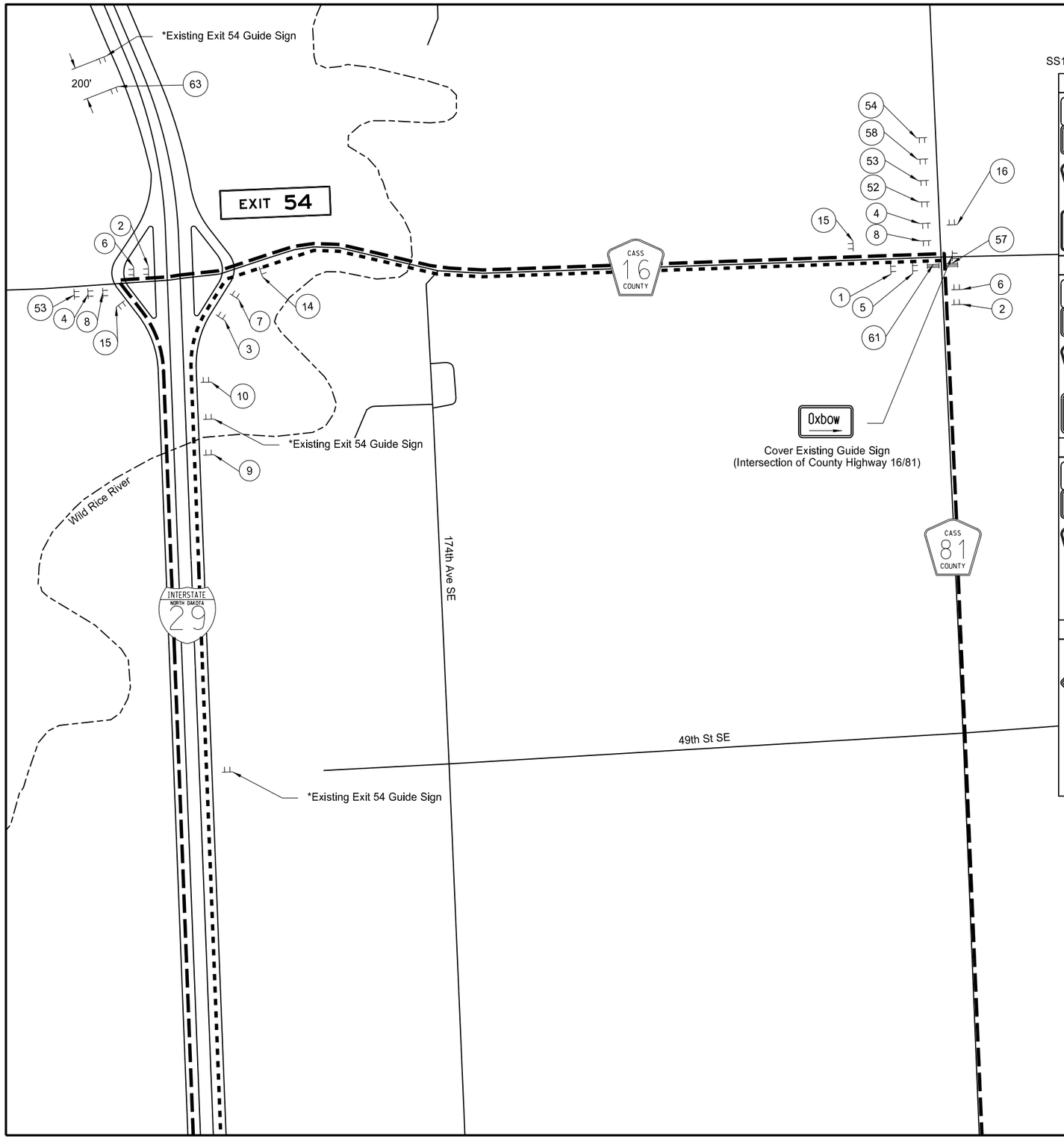
OHB Levee

County Road 81

Utility Crossing/North Road Raise Detour

Revised 8/22/17	STATE	PROJECT NO.	SECTION NO.	SHEET NO.
	ND	WP-43CD	100	4



SS1

1	2	3	4	5
DETOUR M4-8-24 NORTH M3-1-24 CASS 81 COUNTY M1-6-24 M5-1L-21	DETOUR M4-8-24 SOUTH M3-3-24 CASS 81 COUNTY M1-6-24 M5-1L-21	DETOUR M4-8-24 NORTH M3-1-24 CASS 81 COUNTY M1-6-24 M5-1R-21	DETOUR M4-8-24 SOUTH M3-3-24 CASS 81 COUNTY M1-6-24 M5-1R-21	DETOUR M4-8-24 NORTH M3-1-24 CASS 81 COUNTY M1-6-24 M6-1L-21
6	**7**	**8**	**9**	**10**
DETOUR M4-8-24 SOUTH M3-3-24 CASS 81 COUNTY M1-6-24 M6-1L-21	DETOUR M4-8-24 NORTH M3-1-24 CASS 81 COUNTY M1-6-24 M6-1R-21	DETOUR M4-8-24 SOUTH M3-3-24 CASS 81 COUNTY M1-6-24 M6-1R-21	DETOUR M4-8-24 NORTH M3-1-24 CASS 81 COUNTY M1-6-24 M5-2R-21	DETOUR M4-8-24 NORTH M3-3-24 CASS 81 COUNTY M1-6-24 M6-2R-21
14	**15**	**16**	**52**	**53**
DETOUR M4-8-24 NORTH M3-1-24 CASS 81 COUNTY M1-6-24	DETOUR M4-8-24 SOUTH M3-3-24 CASS 81 COUNTY M1-6-24	NORTH M3-1-24 CASS 81 COUNTY M1-6-24	DETOUR 500 FT W20-2-48	DETOUR 1500 FT W20-2-48
54	**57**	**58**	**61**	**63**
ROAD CLOSED AHEAD W20-3-48	ROAD CLOSED 2.5 MILE AHEAD LOCAL TRAFFIC ONLY R11-3A-60 Barricade Mounted	ROAD CLOSED 2.5 MILE AHEAD LOCAL TRAFFIC ONLY R11-3A-60	DETOUR M4-10-48 Barricade Mounted	Oxbow EXIT 50 SS1

*Cover "Oxbow" on existing Exit 54 Signs. Submit method for covering for approval prior to covering.

N

Northbound Detour Route

Southbound Detour Route

River Crossing

All signs shall be post mounted unless stated otherwise.

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OHB Levee

County Road 81

Utility Crossing/North Road Raise Detour

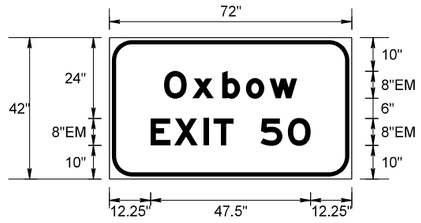
Added 8/22/17	STATE	PROJECT NO.	SECTION NO.	SHEET NO.
	ND	WP-43CD	100	5

SIGN NUMBER	SS1
WIDTH x HEIGHT	6'-0" x 3'-6"
BORDER WIDTH	1.25" (inset 0.75")
CORNER RADIUS	6"
MOUNTING	Ground
BACKGROUND	TYPE: IV Reflective
	COLOR: Orange
LEGEND/BORDER	TYPE: Non-Reflective
	COLOR: Black

SYMBOL	X	Y	WID	HT	ANGLE

STATION(S):
none

AREA: 21.0 Sq.Ft.



Dimensions are in inches.tenths

Letter locations are panel edge to lower left corner

PANEL STYLE: ND_Const_Special.ssl

LETTER POSITION (X)																			LENGTH	SIZE	SERIES
O	x	b	o	w															39.5	8/6	EM 2000
16.2	24.6	33.5	40.6	47.6																	
E	X	I	T	5	0														47.5	8	EM 2000
12.2	19.3	27.9	31	44.9	53																

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Oxbow Levee

County Road 81

Construction Sign Detail

Bid Proposal

Meyer Contracting, Inc

11000 93rd Ave North

Minneapolis, MN 55369

Contact: Verlyn Schoep

Phone: 612.735.5855

Fax: 763.391.5960

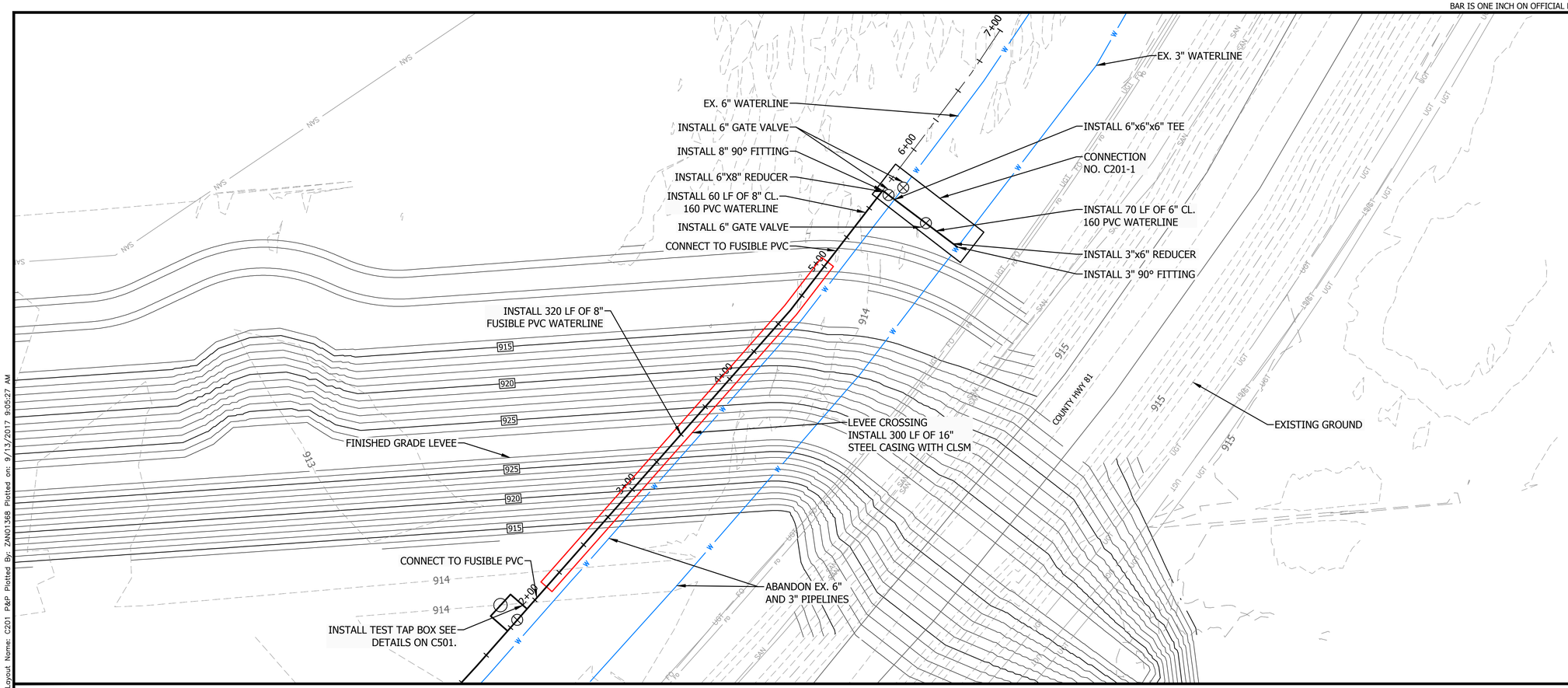
Quote To: Christopher M Gross, PE, CFM
Project Manager
moore engineering, inc.
Phone: 701.499.5857

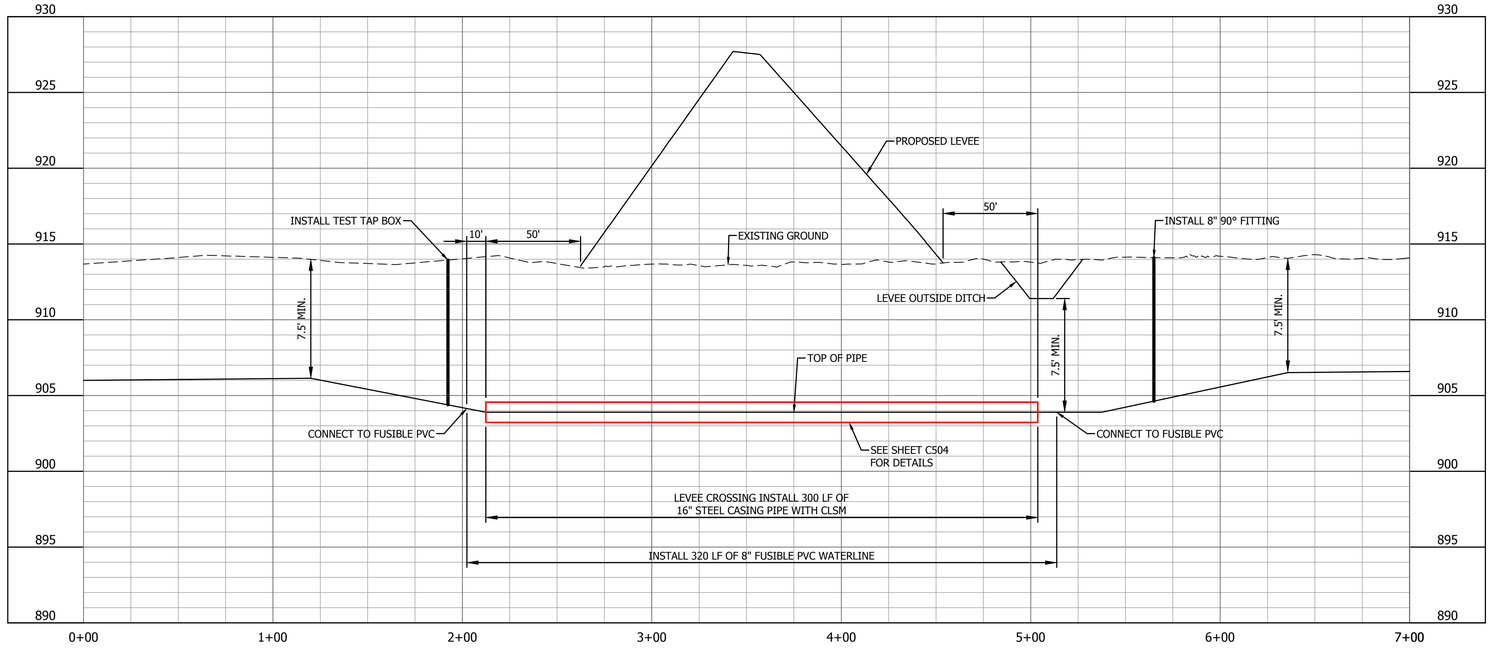
Job Name: Water Main Relocation
OHB Levee at Oxbow

ITEM	DESCRIPTION	QUANTITY	UNIT	UNIT PRICE	AMOUNT
10	16" STEEL CASING PIPE W/CLSM	300.00	LF	579.69	173,907.00
20	CATHODIC PROTECTION	1.00	LS	30,693.89	30,693.89
25	FURNISH 8" FUSIBLE PIPE, UNLOADING, & FUSION	1.00	LS	13,796.77	13,796.77
30	INSTALL 8" FUSIBLE PVC WATERLINE	400.00	LF	28.05	11,220.00
40	TEMP. CONNECT TO EXISTING 6" WATERLINE	2.00	EA	4,355.21	8,710.42
50	WELDING MOBILIZATION	1.00	LS	4,580.00	4,580.00
GRAND TOTAL					**$242,908.08**

BAR IS ONE INCH ON OFFICIAL DRAWINGS. 0 1" IF NOT ONE INCH, ADJUST SCALE ACCORDINGLY.

0 40' 80'
SCALE: 1" = 40'





NORTH CONNECTION PLAN AND PROFILE

CASS RURAL WATER DISTRICT
PIPELINE RELOCATION FOR OHB RING LEVEE PROJECT
OXBOW, NORTH DAKOTA

Bartlett&West
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REVIEW SET

DESIGNED BY:	BJZ
DRAWN BY:	ZAN
APPROVED BY:	BJZ
DESIGN PROJ:	3057.064
CONST PROJ:	3057.064
SCALE:	AS NOTED
DATE:	09/2017
DRAWING NO:	C201
SHEET NO:	6 of 10

#	DATE	DESCRIPTION	BY

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Last edit on: 00/00/00 Drawing Name: F:\Proj\3000\3057\3057.064\AutoCad\Plan Set\OHB Pipeline Replacement\3057.064C_Layout.dwg Layout Name: C201 P&P Plotted By: ZAN01368 Plotted on: 9/13/2017 9:05:27 AM

Recommended Contracting Actions

Date: September 28, 2017

Description	Company	Budget Estimate ($)
Construction Change Orders – Diversion Authority		
WP 43CD – OHB Ring Levee Phases C & D **Change Order 01** • Add 42-inch pipe heat shrink sleeves • Add additional 42-inch pipe bedding and backfill • Add one (1) day of contract time	Meyer Contracting	**$7,383.47**

METRO FLOOD DIVERSION PROJECT

Technical Advisory Group Recommendation

Meeting Date: 9/19/2017

RECOMMENDATION FOR ACTION:

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

SUMMARY OF CONTRACTING ACTION:

Per the contract review and approval procedures 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 ($)
WP-43CD: Meyer Contracting, Inc.	
Change Order #01	***$7,383.47***

- **Add 42-inch pipe heat shrink sleeves**
- **Add additional 42-inch pipe bedding and backfill**
- **Add one (1) day of contract time**

Summary of Contracting History and Current Contract Action:

The MFDA awarded the WP-43CD (OHB Ring Levee – Phases C and D) construction contract to Meyer Contracting, Inc. on July 13, 2017.

Since the start of construction, several contract change items have been identified. Change Order No. 1 adds additional heat-shrink sleeves, 42-inch steel pipe excavation, bedding, and backfill, and one (1) day to the contract time.

Below is a summary of contracting history to date along with the current contracting action.

Original Agreement or Amendment	Budget ($) Change	Original Project Cost	Revised Project Cost	Project Start	Project Completion	Comments
Original Contract	$0.00	$10,339,476.21		09-Aug-17	31-Oct-18	Contract Award to Meyer Consulting, Inc.
Work Change Directive No. 1	$285,000		$10,624476.21	09-Aug-17	31-Oct-18	Add: removal of unsuitable material, additional traffic control, additional excavation, and water line casing and carrier pipe. Final amount to be incorporated into a future change order.

Original Agreement or Amendment	Budget ($) Change	Original Project Cost	Revised Project Cost	Project Start	Project Completion	Comments
Change Order No. 1	$7,383.47		$10,631,859.68	09-Aug-17	31-Oct-18	Add heat-shrink sleeves, additional steel pipe bedding, backfill, and time.

Financial Considerations:

Attached for your review and action is draft CO-01. This change order increases the total Contract Price $7,383.47 and adds one (1) day to the Contract times. The Change Order consists of the following items:

1. Aquashield Heat-shrink Sleeves – This project includes Owner-Furnished materials (42-inch steel pipe with associated materials and 60-inch duckbill check valve) which were purchased in 2015 based on the original design. Design changes since then require additional heat-shrink sleeves for the 42-inch steel pipe. This change includes the Contractor's purchase and installation of an additional eleven (11) heat-shrink sleeves necessary to cover the exterior welds on the 42-inch steel outfall pipes under Highway 81.
    a. The Contractor selected the straight heat-shrink sleeve option which is the Engineer's preference.
    b. CH2M and HMG have reviewed this cost and find it acceptable. The total cost for this change item is $2,055.35.

2. Increase 42-inch Steel Pipe Bedding, Backfill, and Time – The Contractor's bid for 42-inch pipe excavation, bedding, and backfill was based on drawing CJ301/Detail 4, which showed the spacing between the pipes as 4'-0". Drawing CJ502 shows the spacing between the pipes as 6'-10". The Engineer of Record clarified in RFI FMDA-RST-000311 that the correct distance between the 42-inch pipes is 6'-10". The additional 2'-10" width of excavation adds 275 tons of bedding material and 675 cubic yards of excavation and backfill. The time required to excavate and place the additional fill material is one (1) day.
    a. CH2M and HMG have reviewed this cost and find it acceptable. The total cost for this change item is $5,328.12.
    b. CH2M and HMG have reviewed the additional time requested and find it acceptable.

The PMC and the EOR have reviewed CO-01 and feel the proposed costs and level of effort are reasonable. This change amount of $7,383.47 is included within the FY-2017 MFDA budget.

ATTACHMENT(S):

1. Draft Change Order No. 01 with back-up documentation

Submitted by:

John W. Glatzmaier

John Glatzmaier
CH2M
Metro Flood Diversion Project

September 20, 2017
Date

Nathan Boerboom, Diversion Authority Project Manager
Concur: *September 20, 2017* *Non-Concur:* _____

Robert Zimmerman, Moorhead City Engineer
Concur: *September 20, 2017* *Non-Concur* _____

Mark Bittner, Fargo Director of Engineering
Concur: *September 20, 2017* *Non-Concur:* _____

Jason Benson, Cass County Engineer
Concur: *September 20, 2017* *Non-Concur* _____

David Overbo, Clay County Engineer
Concur: *September 20, 2017* *Non-Concur:* _____

Jeff Ebsch, Assistant Cass County Engineer, Diversion Authority Project Manager
Concur: *September 20, 2017* *Non-Concur* _____

Change Order No. 01

Date of Issuance:	9/28/2017	Effective Date:	9/19/2017
Owner:	FM-Flood Diversion Authority	Owner's Contract No.:	WP-43CD
Owner's Representative:	CH2M HILL Engineers, Inc.	Owner's Representative Project No.:	435534
Contractor:	Meyer Contracting, Inc	Contractor's Project No.:	
Engineer:	Houston-Moore Group, LLC	Work Package No.:	WP-43CD
Project:	OHB-Ring Levee-Phases C and D	Contract Name:	Oxbow-Hickson-Bakke Ring Levee

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

Description:

This change order increases the contract price by $7,383.47 by adding new line item "0148, Change Order #1", as shown in the attached Change Order No. 1 Unit Price Schedule, and adds 1 day to the contract time. The new line item includes the following items:

1. **Aquashield Heat-shrink Sleeves**

   This project includes Owner-Furnished materials which were purchased in 2015 based on the original design. Design changes since then resulted in there not being enough heat-shrink sleeves for the current project. This change includes the Contractor purchase and installation of an additional eleven (11) heat-shrink sleeves necessary to cover the exterior welds on the 42-inch steel outfall pipes under Highway 81. The total cost of this item is $2,055.35.

2. **Increase Steel Pipe Bedding and Time**

   The engineer changed the spacing between the pipe from 4'-0" to 6' 10". As a result of this change it requires the placement of an additional 2' 10" width of bedding in between the 42" steel pipes. Additionally, this change increases the excavation and backfill required for the pipes by 657 cubic yards. The time required to excavate and place the additional fill material is 1 day

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Attachments:

1. Change Order No. 1 Unit Price Schedule dated 9/19/2017
2. Contractor's letter dated September 6, 2017
3. Contractor's letter dated September 8, 2017

CHANGE IN CONTRACT PRICE	**CHANGE IN CONTRACT TIMES** *[note changes in Milestones if applicable]*
Original Contract Price: **10,339,476.21**	Original Contract Times: Substantial Completion: July 31, 2018 Ready for Final Payment: October 31, 2018
Contract Price prior to this Change Order: **10,339,476.21**	Contract Times prior to this Change Order: Substantial Completion: July 31, 2018 Ready for Final Payment: October 31, 2018
[Increase] [~~Decrease~~] of this Change Order: **7,383.47**	[Increase] [~~Decrease~~] of this Change Order: **Substantial completion increase 1 day**
Contract Price incorporating this Change Order: **10,346,859.68**	Contract Times with all approved Change Orders: Substantial Completion: August 01, 2018 Ready for Final Payment: October 31, 2018

RECOMMENDED:	ACCEPTED:	ACCEPTED:
By: _____	By: _____	By: _____
Owner's Representative (Authorized Signature)	Owner (Authorized Signature)	Contractor (Authorized Signature)
Name: Nathan Boerboom	Name: Robert W. Wilson	Name: Verlyn Schoep
Title: Project Manager	Title: Co-Executive Director	Title: President
Date:	Date:	Date:

DRAFT

WP-43CD
Oxbow-Hickson-Bakke Ring Levvee-Phases C and D

Change Order 1 Unit Price Schedule
DATE: 9/19/2017

WP-43CD - Oxbow-Hickson-Bakke Ring Levee-Phases C and D												
ITEM	DESCRIPTION	UNIT	Current Budget			Net Change			New Budget			
			QUANTITY	UNIT PRICE	AMOUNT	QUANITY	UNIT PRICE	AMOUNT	QUANITY	UNIT PRICE	AMOUNT	
0001	Mobilization	LS	1	$544,802.00	$ 544,802.00				1	$544,802.00	$	544,802.00
0002	Demolition	LS	1	$324,840.00	$ 324,840.00				1	$324,840.00	$	324,840.00
0003	Clearing and Grubbing	LS	1	$29,057.00	$ 29,057.00				1	$29,057.00	$	29,057.00
0004	Temporary Erosion Protection	LS	1	$66,363.00	$ 66,363.00				1	$66,363.00	$	66,363.00
0005	Traffic Control	LS	1	$8,422.00	$ 8,422.00				1	$8,422.00	$	8,422.00
0006	Care of Water	LS	1	$44,037.00	$ 44,037.00				1	$44,037.00	$	44,037.00
0007	Health and Safety	LS	1	$228,608.00	$ 228,608.00				1	$228,608.00	$	228,608.00
0008	Work Limit Fencing	LF	33,682	$1.50	$ 50,523.00				33682	$1.50	$	50,523.00
0009	Turf Establishment - Zone 1	AC	26	$304.50	$ 7,977.90				26	$304.50	$	7,977.90
0010	Turf Establishment - Zone 3	AC	33	$1,254.00	$ 41,758.20				33	$1,254.00	$	41,758.20
0011	Turf Establishment - Zone 4	AC	10	$1,452.00	$ 14,520.00				10	$1,452.00	$	14,520.00
0012	Topsoil Stripping	SY	143,910	$1.20	$ 172,692.00				143910	$1.20	$	172,692.00
0013	Excavation – Common (North Pond)	CY	158,915	$5.50	$ 874,032.50				158915	$5.50	$	874,032.50
0014	Inspection Trench	LF	5,274	$11.00	$ 58,014.00				5274	$11.00	$	58,014.00
0015	Topsoil	SY	116,850	$1.00	$ 116,850.00				116850	$1.00	$	116,850.00
0016	Aggregate Base - Levee top	LF	5,306	$13.25	$ 70,304.50				5306	$13.25	$	70,304.50
0017	Aggregate Base - Pump Station Access Road	LF	1,450	$24.00	$ 34,800.00				1450	$24.00	$	34,800.00
0018	Low Flow Channel And Pond Access	LF	1,742	$160.00	$ 278,720.00				1742	$160.00	$	278,720.00
0019	Levee Access Gate	EA	2	$12,216.00	$ 24,432.00				2	$12,216.00	$	24,432.00
0020	Installation of Electrical Conduit furnished by others	LF	855	$2.90	$ 2,479.50				855	$2.90	$	2,479.50
0021	Imported fill for backfilling 829 Riverbend Rd	CY	1,500	$7.30	$ 10,950.00				1500	$7.30	$	10,950.00
0022	Remove and Replace Unstable Subgrade Material	CY	500	$74.00	$ 37,000.00				500	$74.00	$	37,000.00
0023	Gravity Drain Inlet Structure	LS	1	$59,057.00	$ 59,057.00				1	$59,057.00	$	59,057.00

WP-43CD - Oxbow-Hickson-Bakke Ring Levee-Phases C and D												
ITEM	DESCRIPTION	UNIT	Current Budget			Net Change			New Budget			
			QUANTITY	UNIT PRICE	AMOUNT	QUANITY	UNIT PRICE	AMOUNT	QUANITY	UNIT PRICE	AMOUNT	
0024	Pump Station Structure	LS	1	$1,392,662.00	$ 1,392,662.00				1	$1,392,662.00	$	1,392,662.00
0025	Pump Station Process Equipment	LS	1	$60,000.00	$ 60,000.00				1	$60,000.00	$	60,000.00
0026	Forcemain Piping	LF	575	$262.50	$ 150,937.50				575	$262.50	$	150,937.50
0027	Gatewell	LS	1	$561,313.00	$ 561,313.00				1	$561,313.00	$	561,313.00
0028	Storm Sewer RCP w/ Catch Basins, Manholes and Connections	LS	1	$852,711.00	$ 852,711.00				1	$852,711.00	$	852,711.00
0029	Transition Structure 1 and Appurtenances	LS	1	$25,898.00	$ 25,898.00				1	$25,898.00	$	25,898.00
0030	Pre-Construction Pipe Repair	SF	1,000	$4.40	$ 4,400.00				1000	$4.40	$	4,400.00
0031	Install Storm Sewer 42-inch Steel Pipe Sections Furnished by Others	LS	1	$97,059.00	$ 97,059.00				1	$97,059.00	$	97,059.00
0032	Cathodic Protection System for Steel Pipe	LS	1	$31,173.00	$ 31,173.00				1	$31,173.00	$	31,173.00
0033	Transition Structure 2 and Appurtenances	LS	1	$26,265.00	$ 26,265.00				1	$26,265.00	$	26,265.00
0034	Gravity Drain Outlet Structure with Duckbill Check Valve	LS	1	$129,038.00	$ 129,038.00				1	$129,038.00	$	129,038.00
0035	Excavation – Common (Gravity Outfall)	CY	44,500	$6.90	$ 307,050.00				44500	$6.90	$	307,050.00
0036	Riprap with Filter	TN	1,500	$114.00	$ 171,000.00				1500	$114.00	$	171,000.00
0037	Pump Station Electrical System	LS	1	$488,000.00	$ 488,000.00				1	$488,000.00	$	488,000.00
0038	Pump Station Communications System	LS	1	$1,600.00	$ 1,600.00				1	$1,600.00	$	1,600.00
0039	Gatewell Electrical System	LS	1	$12,000.00	$ 12,000.00				1	$12,000.00	$	12,000.00
0040	Pump Station HVAC Mechanical System	LS	1	$30,303.00	$ 30,303.00				1	$30,303.00	$	30,303.00
0041	Topsoil Stripping	SY	5,950	$1.90	$ 11,305.00				5950	$1.90	$	11,305.00
0042	Sign - Remove & Reinstall	EA	8	$100.00	$ 800.00				8	$100.00	$	800.00
0043	Mailbox - Remove & Reinstall	EA	5	$315.00	$ 1,575.00				5	$315.00	$	1,575.00
0044	Temporary Mailbox	LS	1	$1,575.00	$ 1,575.00				1	$1,575.00	$	1,575.00
0045	Curb & Gutter - Remove	LF	3,550	$0.95	$ 3,372.50				3550	$0.95	$	3,372.50
0046	Asphalt - Remove	SY	4,800	$4.50	$ 21,600.00				4800	$4.50	$	21,600.00
0047	Concrete Driveway - Remove	SY	205	$6.00	$ 1,230.00				205	$6.00	$	1,230.00
0048	Asphalt Driveway - Remove	SY	45	$8.80	$ 396.00				45	$8.80	$	396.00
0049	Sanitary Sewer - Remove	LF	1,380	$12.00	$ 16,560.00				1380	$12.00	$	16,560.00

WP-43CD - Oxbow-Hickson-Bakke Ring Levee-Phases C and D												
ITEM	DESCRIPTION	UNIT	Current Budget			Net Change			New Budget			
			QUANTITY	UNIT PRICE	AMOUNT	QUANITY	UNIT PRICE	AMOUNT	QUANITY	UNIT PRICE	AMOUNT	
0050	Sanitary Sewer Manhole - Remove	EA	2	$515.50	$ 1,031.00				2	$515.50	$	1,031.00
0051	Sanitary Sewer - 8" PVC SDR 35	LF	2,175	$58.50	$ 127,237.50				2175	$58.50	$	127,237.50
0052	Sanitary Sewer Main - Televise	LF	2,175	$1.50	$ 3,262.50				2175	$1.50	$	3,262.50
0053	Steel Casing - 10"	LF	32	$123.00	$ 3,936.00				32	$123.00	$	3,936.00
0054	Sanitary Sewer Service Connection	EA	7	$2,770.00	$ 19,390.00				7	$2,770.00	$	19,390.00
0055	Sanitary Sewer – Connect to Existing	EA	2	$1,905.00	$ 3,810.00				2	$1,905.00	$	3,810.00
0056	Sanitary Sewer Manhole	EA	12	$6,602.00	$ 79,224.00				12	$6,602.00	$	79,224.00
0057	Water Main – Remove	LF	460	$8.90	$ 4,094.00				460	$8.90	$	4,094.00
0058	Water Main – Connect to Existing	EA	1	$2,730.00	$ 2,730.00				1	$2,730.00	$	2,730.00
0059	Water Main – 6”	LF	10	$103.00	$ 1,030.00				10	$103.00	$	1,030.00
0060	Hydrant – Remove & Replace	EA	1	$6,561.00	$ 6,561.00				1	$6,561.00	$	6,561.00
0061	Gate Valve & Box – 6”	EA	1	$1,698.00	$ 1,698.00				1	$1,698.00	$	1,698.00
0062	Temporary Bypass Pumping	LS	1	$3,781.00	$ 3,781.00				1	$3,781.00	$	3,781.00
0063	Subgrade Preparation	SY	4,970	$6.80	$ 33,796.00				4970	$6.80	$	33,796.00
0064	Reinforcement Fabric	SY	4,970	$1.30	$ 6,461.00				4970	$1.30	$	6,461.00
0065	Aggregate Base Course - 7"	SY	4,970	$3.00	$ 14,910.00				4970	$3.00	$	14,910.00
0066	Perforated PVC Drain Tile - 4"	LF	2,980	$5.30	$ 15,794.00				2980	$5.30	$	15,794.00
0067	Sump Pump - Connect to Drain Tile	EA	6	$365.50	$ 2,193.00				6	$365.50	$	2,193.00
0068	Curb & Gutter - 24" Highback	LF	2,820	$16.50	$ 46,530.00				2820	$16.50	$	46,530.00
0069	Curb & Gutter - 24" Mountable	LF	160	$24.50	$ 3,920.00				160	$24.50	$	3,920.00
0070	Asphalt Base Course - 5"	SY	3,920	$19.75	$ 77,420.00				3920	$19.75	$	77,420.00
0071	Asphalt Wear Course - 2"	SY	3,920	$8.50	$ 33,320.00				3920	$8.50	$	33,320.00
0072	Concrete Driveway - 6"	SY	250	$64.75	$ 16,187.50				250	$64.75	$	16,187.50
0073	Topsoil Replacement	SY	7,310	$2.30	$ 16,813.00				7310	$2.30	$	16,813.00
0074	Turf Establishment - Zone 2	AC	1.5	$3,026.00	$ 4,539.00				2	$3,026.00	$	4,539.00
0075	Temporary Access	LS	1	$12,106.00	$ 12,106.00				1	$12,106.00	$	12,106.00

WP-43CD - Oxbow-Hickson-Bakke Ring Levee-Phases C and D												
ITEM	DESCRIPTION	UNIT	Current Budget			Net Change			New Budget			
			QUANTITY	UNIT PRICE	AMOUNT	QUANITY	UNIT PRICE	AMOUNT	QUANITY	UNIT PRICE	AMOUNT	
0076	Portable Traffic Signals	EA	2	$6,000.00	$ 12,000.00				2	$6,000.00	$	12,000.00
0077	Storm Sewer 15-inch RCP	LF	211	$49.25	$ 10,391.75				211	$49.25	$	10,391.75
0078	Storm Sewer 18-inch RCP	LF	13	$65.75	$ 854.75				13	$65.75	$	854.75
0079	Storm Sewer 24-inch RCP	LF	209	$86.50	$ 18,078.50				209	$86.50	$	18,078.50
0080	Storm Sewer 27-inch RCP	LF	617	$103.50	$ 63,859.50				617	$103.50	$	63,859.50
0081	Storm Sewer 30-inch RCP	LF	291	$113.50	$ 33,028.50				291	$113.50	$	33,028.50
0082	Storm Sewer 36-inch RCP	LF	454	$155.50	$ 70,597.00				454	$155.50	$	70,597.00
0083	Storm Sewer 42-inch RCP	LF	34	$210.50	$ 7,157.00				34	$210.50	$	7,157.00
0084	Storm Sewer 54-inch RCP	LF	935	$307.00	$ 287,045.00				935	$307.00	$	287,045.00
0085	Storm Sewer 66-inch RCP	LF	352	$417.50	$ 146,960.00				352	$417.50	$	146,960.00
0086	Storm Sewer 72-inch RCP	LF	97	$482.50	$ 46,802.50				97	$482.50	$	46,802.50
0087	Flared End Section – 72” RCP	EA	1	$3,726.00	$ 3,726.00				1	$3,726.00	$	3,726.00
0088	Trash Rack – 72”	EA	1	$3,952.00	$ 3,952.00				1	$3,952.00	$	3,952.00
0089	Storm Sewer Control Structure – 60-inch Precast	EA	1	$21,712.00	$ 21,712.00				1	$21,712.00	$	21,712.00
0090	Storm Sewer Manhole – 60-inch Precast	EA	6	$7,364.00	$ 44,184.00				6	$7,364.00	$	44,184.00
0091	Storm Sewer Manhole – 72-inch Precast	EA	3	$9,922.00	$ 29,766.00				3	$9,922.00	$	29,766.00
0092	Storm Sewer Manhole – 96-inch Precast	EA	1	$15,564.00	$ 15,564.00				1	$15,564.00	$	15,564.00
0093	Junction Storm Sewer Manhole – 144-inch Precast	EA	2	$31,801.00	$ 63,602.00				2	$31,801.00	$	63,602.00
0094	Storm Sewer Curb Inlets – 2' x 3'	EA	8	$3,084.00	$ 24,672.00				8	$3,084.00	$	24,672.00
0095	Storm Sewer - Remove	LF	2,280	$18.50	$ 42,180.00				2280	$18.50	$	42,180.00
0096	Storm Sewer Manhole - Remove	EA	2	$564.00	$ 1,128.00				2	$564.00	$	1,128.00
0097	Storm Sewer Catch Basin - Remove	EA	8	$564.00	$ 4,512.00				8	$564.00	$	4,512.00
0098	Storm Sewer – Connect to Existing	EA	1	$1,808.00	$ 1,808.00				1	$1,808.00	$	1,808.00
0099	Removal Of Pavement	TON	11,410	$6.80	$ 77,588.00				11410	$6.80	$	77,588.00
0100	Removal Of Culverts-All Types & Sizes	LF	136	$13.75	$ 1,870.00				136	$13.75	$	1,870.00
0101	Common Excavation-Type A	CY	8,411	$3.20	$ 26,915.20				8411	$3.20	$	26,915.20

WP-43CD - Oxbow-Hickson-Bakke Ring Levee-Phases C and D												
ITEM	DESCRIPTION	UNIT	Current Budget			Net Change			New Budget			
			QUANTITY	UNIT PRICE	AMOUNT	QUANITY	UNIT PRICE	AMOUNT	QUANITY	UNIT PRICE	AMOUNT	
0102	Topsoil	CY	6,812	$5.80	$ 39,509.60				6812	$5.80	$	39,509.60
0103	Borrow-Excavation	CY	59,746	$3.90	$ 233,009.40				59746	$3.90	$	233,009.40
0104	Water	M GAL	883	$15.00	$ 13,245.00				883	$15.00	$	13,245.00
0105	Subgrade Preparation- Type A	STA	4	$882.00	$ 3,528.00				4	$882.00	$	3,528.00
0106	Seeding Class II	ACRE	10	$472.00	$ 4,918.24				10	$472.00	$	4,918.24
0107	Temporary Cover Crop	ACRE	10	$127.00	$ 1,323.34				10	$127.00	$	1,323.34
0108	Straw Mulch	ACRE	21	$304.50	$ 6,345.78				21	$304.50	$	6,345.78
0109	Fiber Rolls 12in	LF	1,160	$2.30	$ 2,668.00				1160	$2.30	$	2,668.00
0110	Remove Fiber Rolls 12in	LF	385	$0.35	$ 134.75				385	$0.35	$	134.75
0111	Salvaged Base Course	TON	9,439	$18.50	$ 174,621.50				9439	$18.50	$	174,621.50
0112	Tack Coat	GAL	1,366	$4.90	$ 6,693.40				1366	$4.90	$	6,693.40
0113	Superpave FAA 42	TON	5,028	$41.00	$ 206,148.00				5028	$41.00	$	206,148.00
0114	Cored Sample	EA	21	$85.00	$ 1,785.00				21	$85.00	$	1,785.00
0115	Pg. 58-28 Asphalt Cement	TON	302	$450.00	$ 135,900.00				302	$450.00	$	135,900.00
0116	Traffic Control Signs	UNIT	3,923	$2.00	$ 7,846.00				3923	$2.00	$	7,846.00
0117	Type III Barricade	EA	23	$115.00	$ 2,645.00				23	$115.00	$	2,645.00
0118	Delineator Drums	EA	25	$10.00	$ 250.00				25	$10.00	$	250.00
0119	Tubular Markers	EA	81	$3.00	$ 243.00				81	$3.00	$	243.00
0120	Traffic Control	L SUM	1	$3,496.00	$ 3,496.00				1	$3,496.00	$	3,496.00
0121	Portable Changeable Message Sign	EA	2	$3,000.00	$ 6,000.00				2	$3,000.00	$	6,000.00
0122	Geosynthetic Material Type R1	SY	16,100	$1.40	$ 22,540.00				16100	$1.40	$	22,540.00
0123	Pipe Conc Reinf 241n CL III	LF	110	$88.75	$ 9,762.50				110	$88.75	$	9,762.50
0124	End Sect-Conc Reinf 24in	EA	2	$1,017.00	$ 2,034.00				2	$1,017.00	$	2,034.00
0125	Pipe Corr Steel .0641n 24in	LF	102	$73.00	$ 7,446.00				102	$73.00	$	7,446.00
0126	End Sect Corr Steel .0641n 24in	EA	4	$372.00	$ 1,488.00				4	$372.00	$	1,488.00
0127	Flat Sheet For Signs-Type XI Refl Sheeting	SF	6	$22.00	$ 138.60				6	$22.00	$	138.60

WP-43CD - Oxbow-Hickson-Bakke Ring Levee-Phases C and D												
ITEM	DESCRIPTION	UNIT	Current Budget			Net Change			New Budget			
			QUANTITY	UNIT PRICE	AMOUNT	QUANITY	UNIT PRICE	AMOUNT	QUANITY	UNIT PRICE	AMOUNT	
0128	Steel Galv Posts-Telescoping Perforated Tube	LF	17	$16.00	$ 270.40				17	$16.00	$ 270.40	
0129	Pvmt Mk Painted 4in Line	LF	11,012	$0.35	$ 3,854.20				11012	$0.35	$ 3,854.20	
0130	Pvmt Mk Painted 8in Line	LF	260	$0.35	$ 91.00				260	$0.35	$ 91.00	
0131	Dust Palliative Material	GAL	5,452	$3.30	$ 17,991.60				5452	$3.30	$ 17,991.60	
0132	Force Main - 6" PVC	LF	2,700	$20.00	$ 54,000.00				2700	$20.00	$ 54,000.00	
0133	Force Main - 8" PVC	LF	2,700	$24.25	$ 65,475.00				2700	$24.25	$ 65,475.00	
0134	Sanitary Manhole - Type "E"	EA	2	$21,368.00	$ 42,736.00				2	$21,368.00	$ 42,736.00	
0135	Remove SS Force Main	EA	2	$1,804.00	$ 3,608.00				2	$1,804.00	$ 3,608.00	
0136	Force Main - Connect to Existing	EA	4	$2,154.00	$ 8,616.00				4	$2,154.00	$ 8,616.00	
0137	Plug Valve - 6"	EA	2	$1,659.00	$ 3,318.00				2	$1,659.00	$ 3,318.00	
0138	Plug Valve - 8"	EA	2	$2,011.00	$ 4,022.00				2	$2,011.00	$ 4,022.00	
0139	Sanitary Sewer Force Main Fittings	LBS	326	$40.00	$ 13,040.00				326	$40.00	$ 13,040.00	
0140	15" RCP ST	LF	40	$121.00	$ 4,840.00				40	$121.00	$ 4,840.00	
0141	Gravel - Class 5	CY	25	$81.25	$ 2,031.25				25	$81.25	$ 2,031.25	
0142	4" Insulation	SY	45	$87.25	$ 3,926.25				45	$87.25	$ 3,926.25	
0143	18" Steel Casing Pipe w/ CLSM	LF	460	$229.50	$ 105,570.00				460	$229.50	$ 105,570.00	
0144	Cathodic Protection System	LS	1	$40,036.00	$ 40,036.00				1	$40,036.00	$ 40,036.00	
0145	Topsoil Stripping	SY	19000	$0.40	$ 7,600.00				19000	$0.40	$ 7,600.00	
0146	Topsoil Spread	SY	19000	$0.95	$ 18,050.00				19000	$0.95	$ 18,050.00	
0147	Turf Establishment - Zone 3	AC	3.9	$1,254.00	$ 4,890.60				4	$1,254.00	$ 4,890.60	
0148	Chang Order #1	EA				1	$ 7,383.47	$ 7,383.47	1.0	$ 7,383.47	$ 7,383.47	
WP-43CD - TOTAL AMOUNT			CURRENT BUDGET		$ 10,399,476.21	NET CHANGE		$ 7,383.47	NEW BUDGET		$ 10,406,859.68	

MEYER CONTRACTING

September 6, 2017

Mr. Mitchell Haskins, Project Construction Manager
CH2M HILL Engineers, Inc.
64 4th Street North, Suite 300
Fargo, ND 58103

Subject: Oxbow-Hickson-Bakke Ring Levee-Phases C and D; Work Package 43CD
Change Order Request – Steel Pipe Bedding Detail Change

Dear Mr. Haskins,

The response to RFI FMDA-RSR-000311 modifies the Contract in that on Detail 4 on Sheet CJ301 the spacing is to be changed to 6' 10" between the dual steel pipes. As a result of this change, we will now be required to place an additional 2' 10" width of bedding in between the 42" steel pipes. Additionally, this change also increases the amount of excavation and backfill required for these pipes.

Based on our calculations, we will be required to place an additional 275.4 tons of bedding and be required to excavate and backfill an additional 657.48 cubic yards of trench material to accommodate the dimensional change.

We hereby request $5,328.12 be added to our contract to compensate us for this change. Attached is a breakdown of the calculation for this amount. In addition to this cost adjustment, we request that an additional 0.5 days be added to the contract time for the associated milestone(s).

Thank you.

Respectfully,

Jeremy Gibbs
Meyer Contracting, Inc.

11000 93rd Avenue North – Maple Grove MN 55369-4100
office. 763-391-5959 fax. 763.391.5960

09/06/2017 11:28
171297EXTRA3 42" Steep Pipe Spacing Change
*** Jeremy Gibbs

BID TOTALS

Biditem	Description	Status - Rnd	Quantity	Units	Unit Price	Bid Total
10	ADDITIONAL EXCAVATION		657.480	CYEV	3.89	2,557.60
20	ADDITIONAL PIPE BEDDING		275.400	TN	10.06	2,770.52
			Bid Total	========>		$5,328.12

Direct Cost Report

Activity / Resource	Description	Pcs	Quantity	Unit	Unit Cost	Labor	Perm Material	Constr Matl/Exp	Equipment Ownership	Equipment Operation	Sub-Contract	Total
BID ITEM = 10												
Description =	ADDITIONAL EXCAVATION			Unit =	CYEV	Takeoff Quan:	657.480	Engr Quan:	657.480			
200000	**INSTALL 42" STEEL PIPE (ADDITIONAL EXC.)**		**Quan: -9,861.34 CYEV**		**Hrs/Shft: 12.00**	**Cal: 72**	**WC: NONE**					
ADDITIONAL EXCAVATION & BACKFILL, ORIGINAL BID WAS BASED ON APPROXIMATELY 9,861.34 CY OF EXCAVATION, REVISED ESTIMATED EXCAVATION EQUALS 10,518.82, THIS INCREASED BY 657.48 CY												
UTST	Utility - Deep Storm Sewer		-41.33	CH	**Prod: 238.5810 UH**	Lab Pcs: 6.00			Eqp Pcs: 4.50			
4WELD	WELDING SUB	1.00	-48.00	HR	125.000						-6,001	-6,001
8B349	349F Cat excavator	1.00	-41.33	HR	105.000				-2,477	-1,865		-4,341
8C51	54" sheepsfoot compact	0.20	-8.27	HR	37.000				-146	-162		-307
8D6T	D6TXW Cat dozer	1.00	-41.33	HR	83.000				-2,014	-1,419		-3,431
8L950	950M Cat wheel loader	0.30	-12.40	HR	57.000				-433	-276		-708
8TPUF	Pickup truck w/foreman	1.00	-41.33	HR	15.000				-621			-621
8UTB24	Trench box - 24'	1.00	-41.33	HR	5.000				-208			-208
FORE	Supervisory - Foreman	1.00	-41.33	MH	47.000	-3,696						-3,696
LB	Laborer - Bottom Man	2.00	-82.67	MH	33.700	-5,676						-5,676
LPL	Laborer - Pipe Layer	1.00	-41.33	MH	35.500	-2,950						-2,950
OB	Operator - Backhoe	1.00	-41.33	MH	36.390	-3,088						-3,088
OD	Operator - Dozer	0.50	-20.67	MH	36.390	-1,545						-1,545
OLC	Operator - Loader	0.30	-12.40	MH	34.840	-898						-898
OR	Operator - Compactor	0.20	-8.27	MH	30.290	-542						-542
$-33,996.30	0.0251		-248.0000		[ ]	-18,388			-5,892	-3,719	-6,001	-33,997
	2,863.2006	Un/Shift	39.7635	Unit/MH		1.86			0.60	0.38	0.61	3.45
200000A	**INSTALL 42" STEEL PIPE (ADDITIONAL EXC.)**		**Quan: 10,518.82 CYEV**		**Hrs/Shft: 12.00**	**Cal: 72**	**WC: NONE**					
ADDITIONAL EXCAVATION & BACKFILL, ORIGINAL BID WAS BASED ON APPROXIMATELY 9,861.34 CY OF EXCAVATION, REVISED ESTIMATED EXCAVATION EQUALS 10,518.82, THIS INCREASED BY 657.48 CY												
UTST	Utility - Deep Storm Sewer		44.08	CH	**Prod: 238.5810 UH**	Lab Pcs: 6.00			Eqp Pcs: 4.50			
4WELD	WELDING SUB	1.00	51.20	HR	125.000						6,400	6,400
8B349	349F Cat excavator	1.00	44.09	HR	105.000				2,641	1,988		4,629
8C51	54" sheepsfoot compact	0.20	8.82	HR	37.000				154	172		326
8D6T	D6TXW Cat dozer	1.00	44.09	HR	83.000				2,147	1,512		3,659
8L950	950M Cat wheel loader	0.30	13.23	HR	57.000				460	294		754
8TPUF	Pickup truck w/foreman	1.00	44.09	HR	15.000				661			661
8UTB24	Trench box - 24'	1.00	44.09	HR	5.000				220			220
FORE	Supervisory - Foreman	1.00	44.09	MH	47.000	3,941						3,941
LB	Laborer - Bottom Man	2.00	88.18	MH	33.700	6,053						6,053
LPL	Laborer - Pipe Layer	1.00	44.09	MH	35.500	3,145						3,145
OB	Operator - Backhoe	1.00	44.09	MH	36.390	3,293						3,293

Direct Cost Report

Activity / Resource	Description	Pcs	Quantity / Unit	Unit Cost	Labor	Perm Material	Constr Matl/Exp	Equipment Ownership	Equipment Operation	Sub-Contract	Total
BID ITEM = 10											
Description =	ADDITIONAL EXCAVATION			Unit = CYEV	Takeoff Quan:	657.480		Engr Quan:	657.480		
OD	Operator - Dozer	0.50	22.04 MH	36.390	1,646						1,646
OLC	Operator - Loader	0.30	13.23 MH	34.840	957						957
OR	Operator - Compactor	0.20	8.82 MH	30.290	577						577
$36,264.40	0.0251 MH/CYEV		264.5400MH	[1.132]	19,613			6,285	3,966	6,400	36,264
	2,863.5626 Un/Shift		39.7627 Unit/MH		1.86			0.60	0.38	0.61	3.45
=====> Item Totals:	**10 - ADDITIONAL EXCAVATION**										
$2,268.10	0.0251 MH/CYEV		16.54MH	[18.113]	1,226			393	248	400	**2,268**
3.450	657.48 CYEV				1.87			0.60	0.38	0.61	3.45

Activity / Resource	Description	Pcs	Quantity / Unit	Unit Cost	Labor	Perm Material	Constr Matl/Exp	Equipment Ownership	Equipment Operation	Sub-Contract	Total
BID ITEM = 20											
Description = ADDITIONAL PIPE BEDDING				Unit = TN	Takeoff Quan: 275.400		Engr Quan: 275.400				
900000	**PIPE BEDDING STEEL PIPE**			**Quan: 275.40 TN**	**Hrs/Shft: 12.00**		**Cal: 72**	**WC: NONE**			
ADDITIONAL BEDDING NEEDED FOR WIDENED BEDDING DETAIL 4 ON SHEET CJ301											
2AGSA12	CLASS 3 AGGREGA@106	1.00	275.40 TN	8.177		2,398					2,398
$2,398.38				[ ]		2,398					2,398
						8.71					8.71
=====> Item Totals:	**20 - ADDITIONAL PIPE BEDDING**										
$2,398.38				[ ]		2,398					**2,398**
8.709			275.4 TN			8.71					8.71

Activity / Resource	Description	Quantity Pcs	Unit	Unit Cost	Labor	Perm Material	Constr Matl/Exp	Equipment Ownership	Equipment Operation	Sub-Contract	Total
$4,666.48	*** **Report Totals** ***	16.54	MH		1,226	2,398		393	248	400	**4,666**

>>> indicates Non Additive Activity

------Report Notes:------

The estimate was prepared with TAKEOFF Quantities.

This report shows TAKEOFF Quantities with the resources.

Bid Date: Owner: Engineering Firm:

Estimator-In-Charge:

* on units of MH indicate average labor unit cost was used rather than base rate.

[ ] in the Unit Cost Column = Labor Unit Cost Without Labor Burdens

In equipment resources, rent % and EOE % not = 100% are represented as XXX%YYY where XXX=Rent% and YYY=EOE%

------Calendar Codes------

50	50 Hour Work Week
508	Five eight hour days
60	60 hours per week
72	**72 Hours per week (Default Calendar)**
82	6 -12 hr days & 10 hr on Sun

8	Bedding Below Pipe (Inches)
82.25	Bedding on Each Side of Pipe (Inches)
12	Bedding Above Pipe (Inches)
100.00%	Bedding Height in Pipe Area (%)
1.00	Backslope Run (LF) per LF of Rise
18	Depth of Bedding Section with no Backslope) (Inches)
1.875	Bedding Conversion Rate to Tons
1,573.87	Total Bedding Needed (Tons):
898.63	Total Pipe & Bedding Displacement (CYEV):

ONLY MAKE ENTRIES/MODIFICATIONS IN YELLOW CELLS

Pipe Size / Type	Total Length of Pipe (LF)	Total Bedding Area (SI)	Bedding (CY)	Bedding (Tons)	Total Displacement (CY)
Steel Pipe - 4' Spacing					
42	248	14087	799.43	1,573.87	898.63

8	Bedding Below Pipe (Inches)
99.25	Bedding on Each Side of Pipe (Inches)
12	Bedding Above Pipe (Inches)
100.00%	Bedding Height in Pipe Area (%)
1.00	Backslope Run (LF) per LF of Rise
18	Depth of Bedding Section with no Backslope) (Inches)
1.875	Bedding Conversion Rate to Tons
1,849.27	Total Bedding Needed (Tons):
1,038.52	Total Pipe & Bedding Displacement (CYEV):

ONLY MAKE ENTRIES/MODIFICATIONS IN YELLOW CELLS

Pipe Size / Type	Total Length of Pipe (LF)	Total Bedding Area (SI)	Bedding (CY)	Bedding (Tons)	Total Displacement (CY)
Steel Pipe - 4' Spacing					
42	248	16280	939.31	1,849.27	1,038.52

	Bottom Length			Bottom Width			Over-Excavate	Length + Over-Excavate	Width + Over-Excavate	Depth	Slope	Top Length	Top Width	Volume
Structure	Feet	Inches	Feet	Feet	Inches	Feet	Feet	Feet	Feet	Feet	X:X	Feet	Feet	CYEV
														20,380.16
			0.00			0.00		0	0			0	0	0.00
42" Steel Pipe @ 4' Spacing	248	0	248.00	17	5	17.42	0	248	17.41667	23.11	1.00	294.22	63.63667	9,861.34
Original			0.00			0.00		0	0			0	0	0.00
			0.00			0.00		0	0			0	0	0.00
			0.00			0.00		0	0			0	0	0.00
			0.00			0.00		0	0			0	0	0.00
			0.00			0.00		0	0			0	0	0.00
42" Steel Pipe @ 6' 10" Spacing	248	0	248.00	20	3	20.25	0	248	20.25	23.11	1.00	294.22	66.47	10,518.82
Revised			0.00			0.00		0	0			0	0	0.00
			0.00			0.00		0	0			0	0	0.00
			0.00			0.00		0	0			0	0	0.00
			0.00			0.00		0	0			0	0	0.00
			0.00			0.00		0	0			0	0	0.00
			0.00			0.00		0	0			0	0	0.00
			0.00			0.00		0	0			0	0	0.00
			0.00			0.00		0	0			0	0	0.00
			0.00			0.00		0	0			0	0	0.00
			0.00			0.00		0	0			0	0	0.00
			0.00			0.00		0	0			0	0	0.00
			0.00			0.00		0	0			0	0	0.00
			0.00			0.00		0	0			0	0	0.00
			0.00			0.00		0	0			0	0	0.00
			0.00			0.00		0	0			0	0	0.00
			0.00			0.00		0	0			0	0	0.00
			0.00			0.00		0	0			0	0	0.00
			0.00			0.00		0	0			0	0	0.00
			0.00			0.00		0	0			0	0	0.00
			0.00			0.00		0	0			0	0	0.00
			0.00			0.00		0	0			0	0	0.00
			0.00			0.00		0	0			0	0	0.00
			0.00			0.00		0	0			0	0	0.00
			0.00			0.00		0	0			0	0	0.00
			0.00			0.00		0	0			0	0	0.00
			0.00			0.00		0	0			0	0	0.00
			0.00			0.00		0	0			0	0	0.00
			0.00			0.00		0	0			0	0	0.00
			0.00			0.00		0	0			0	0	0.00
			0.00			0.00		0	0			0	0	0.00
			0.00			0.00		0	0			0	0	0.00
			0.00			0.00		0	0			0	0	0.00
			0.00			0.00		0	0			0	0	0.00
			0.00			0.00		0	0			0	0	0.00
			0.00			0.00		0	0			0	0	0.00
			0.00			0.00		0	0			0	0	0.00
			0.00			0.00		0	0			0	0	0.00
			0.00			0.00		0	0			0	0	0.00

Patrick Baldy

From: Aconex Notification (F-M Area Diversion) <noreply@aconex.com>
Sent: Tuesday, August 29, 2017 6:38 PM
To: Patrick Baldy
Subject: FMDA-RSR-000311: Re: 43CD Dual 42" Steel Pipe Spacing Response

Dear **Patrick**,

You have received a new **Response to RFI: FMDA-RSR-000311**

Project:	F-M Area Diversion
Type:	Response to RFI
Mail Number:	FMDA-RSR-000311
To:	Todd Frerk, Meyer Contracting, Inc.
Cc:	Mr Greg Baisch, Diversion Authority
	Paul Barthel, Diversion Authority
	Nathan Boerboom, Diversion Authority
	Mitchell Haskins, Diversion Authority
	Patrick Baldy, Meyer Contracting, Inc.
	Brenden Davis, Meyer Contracting, Inc.
	MistyLee Quast, Meyer Contracting, Inc.
	Verlyn Schoep, Meyer Contracting, Inc.
From:	C Submittal Coordinator, Diversion Authority
Sent:	8/29/17 4:37:45 PM PDT (GMT -07:00)
Status:	N/A
Subject:	**Re: 43CD Dual 42" Steel Pipe Spacing Response**
Sub-Program:	System Wide
Project Name:	WP43CD - OHB Ring Levee Phases C and D
Functional Area/Discipline:	Design Management
Reference No:	
Reference Documents Attached:	Yes
Cost Impact:	Yes
Schedule Impact:	Yes
Work Impact:	Impeded
Description/Information Requested:	Detail 4 on CJ301 shows 4'0" spacing between dual 42" steel pipe (dual gravity drain). Details 1&3 on CJ502 show 6'10" spacing between dual 42" steel pipe (dual gravity drain).
Proposed Solution:	Clarify if spacing between dual 42" steel pipes is to be 4'0" or 6'10".
Response:	Spacing between dual 42” steel pipes is 6’-10” For Detail 4 on CJ301, the 4’-0” spacing shall be revised to 6’-10”

Aconex
Project success. Easy as Aconex.

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: 1 888 5 ACONEX

Int: 1 888 5 ACONEX

Regards,

The Aconex Team

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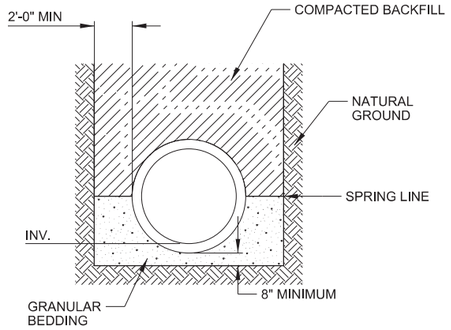


1 CJ102 CJ103 SECTION: PIPE BEDDING - RCP

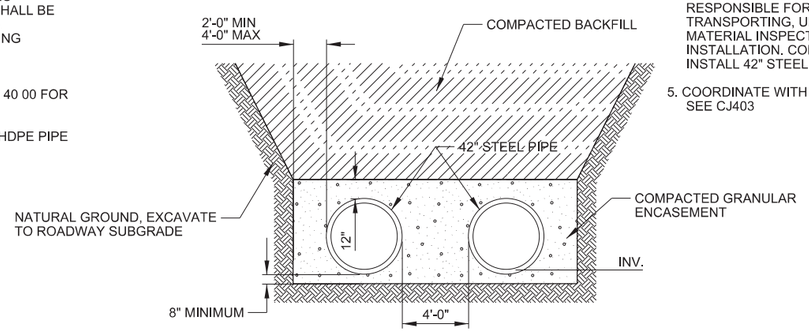
NOT TO SCALE
STA 0+95 TO 3+40
STA 5+00 TO 11+43
STA 14+07 TO 16+81
STA 0+00A TO 0+69A

NOTES FOR SECTIONS 1-4:

1. FURNISH ALL EXCAVATIONS IN CONFORMANCE WITH APPLICABLE OSHA LAWS AND REGULATIONS INCLUDING PROPER EGRESS, SLOPING AND BENCHING, EVALUATION BY A COMPETENT PERSON, HAZARDOUS ATMOSPHERES, AND TRAINING. TRENCH EXCAVATIONS EXCEEDING 20-FEET IN DEPTH SHALL BE DESIGNED BY A NORTH DAKOTA REGISTERED ENGINEER ASSUMING DRAINED AND UNDRAINED SOIL CONDITIONS.
2. SEE SPECIFICATION SECTION 33 40 00 FOR COMPACTION REQUIREMENTS.
3. INSTALL MARKING TAPE ABOVE HDPE PIPE PER SPECIFICATIONS.

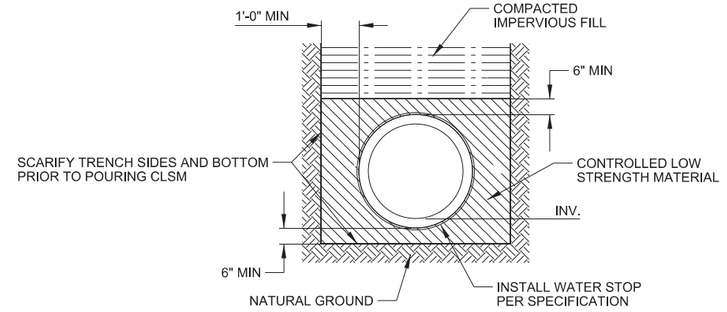
NOTE FOR SECTION 4 ONLY:

4. OWNER HAS PURCHASED 42" STEEL PIPE AND "LIFELAST DURASHIELD 210" COATING PATCH KIT. THESE ITEMS ARE STORED AT CASS COUNTY HIGHWAY DEPARTMENT, WHERE THEY ARE TO BE FURNISHED TO CONTRACTOR. CONTRACTOR SHALL COORDINATE WITH OWNER'S REPRESENTATIVE FOR OWNER-FURNISHED PRODUCTS. CONTRACTOR SHALL BE RESPONSIBLE FOR LOADING, TRANSPORTING, UNLOADING, AND MATERIAL INSPECTIONS PRIOR TO INSTALLATION. CONTRACTOR SHALL INSTALL 42" STEEL PIPE.
5. COORDINATE WITH CATHODIC PROTECTION, SEE CJ403



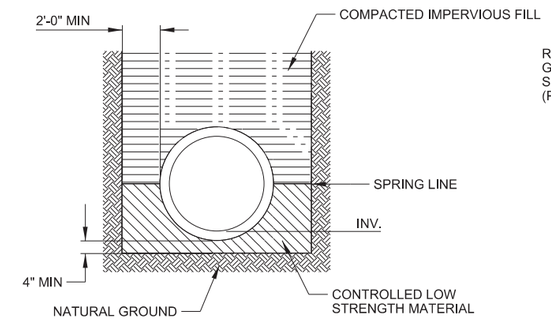
4 CJ403 SECTION: PIPE BEDDING - STEEL PIPE (DUAL GRAVITY DRAIN)

NOT TO SCALE
STA 11+50 TO 14+00



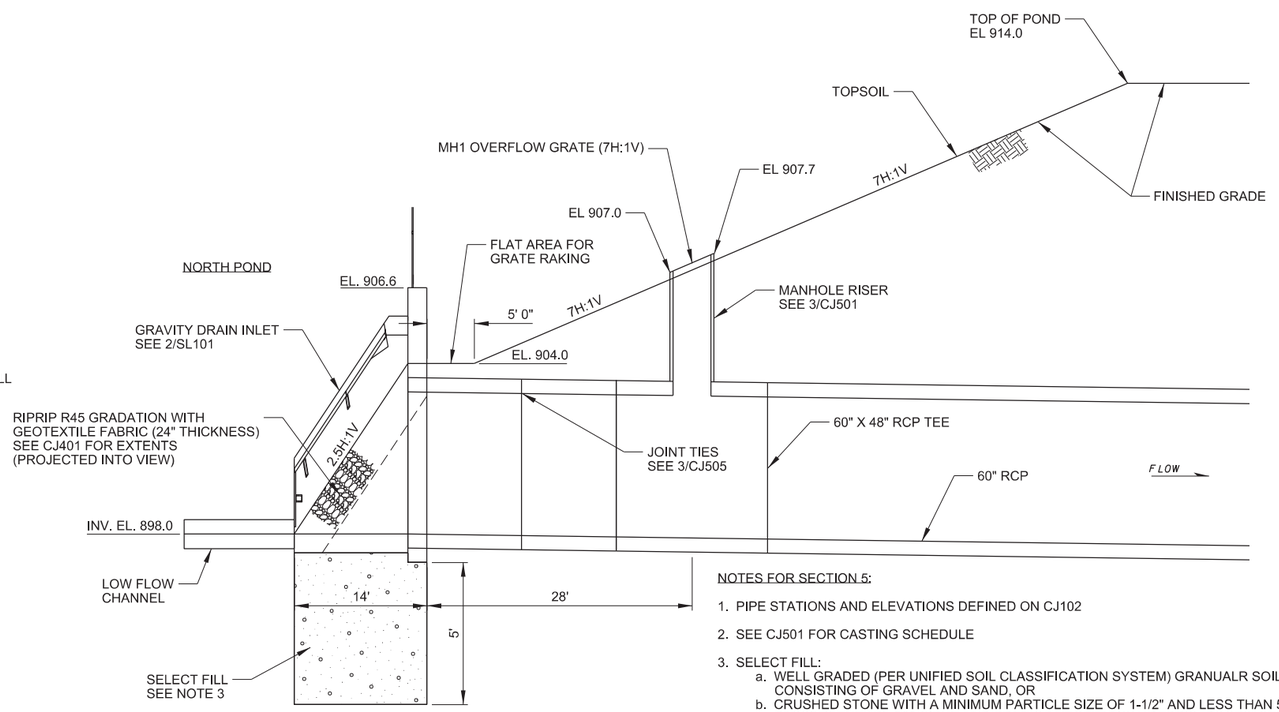
2 CJ102 SECTION: PIPE BEDDING - HDPE (LEVEE)

NOT TO SCALE
STA 0+98A TO 2+21A



3 CJ102 SECTION: PIPE BEDDING - RCP (LEVEE)

NOT TO SCALE
STA 3+40 TO 4+04
STA 4+31 TO 5+00



NOTES FOR SECTION 5:

1. PIPE STATIONS AND ELEVATIONS DEFINED ON CJ102
2. SEE CJ501 FOR CASTING SCHEDULE
3. SELECT FILL:
   a. WELL GRADED (PER UNIFIED SOIL CLASSIFICATION SYSTEM) GRANUALR SOIL CONSISTING OF GRAVEL AND SAND, OR
   b. CRUSHED STONE WITH A MINIMUM PARTICLE SIZE OF 1-1/2" AND LESS THAN 5% PASSING THE NO. 200 SIEVE AND FREE OF VEGETATION, DEBRIS, ROOTS, STICKS, BRUSH, AND NON-SOIL MATERIALS.

5 CJ102 SECTION: GRAVITY DRAIN INLET PIPE AND POND SLOPE

NOT TO SCALE

This document was originally issued and sealed by Matthew R. Metzger, Registration No. PE-9064, on 06/02/17 and the original document is stored at CH2M Hill Engineering, Inc., Fargo, N.D.

HMG HOUSTON - MOORE GROUP

OXBOW - HICKSON - BAKKE RING LEVEE - PHASE CD
WORK PACKAGE 43CD
CASS COUNTY, NORTH DAKOTA
CIVIL SECTIONS - PIPE BEDDING AND INLET

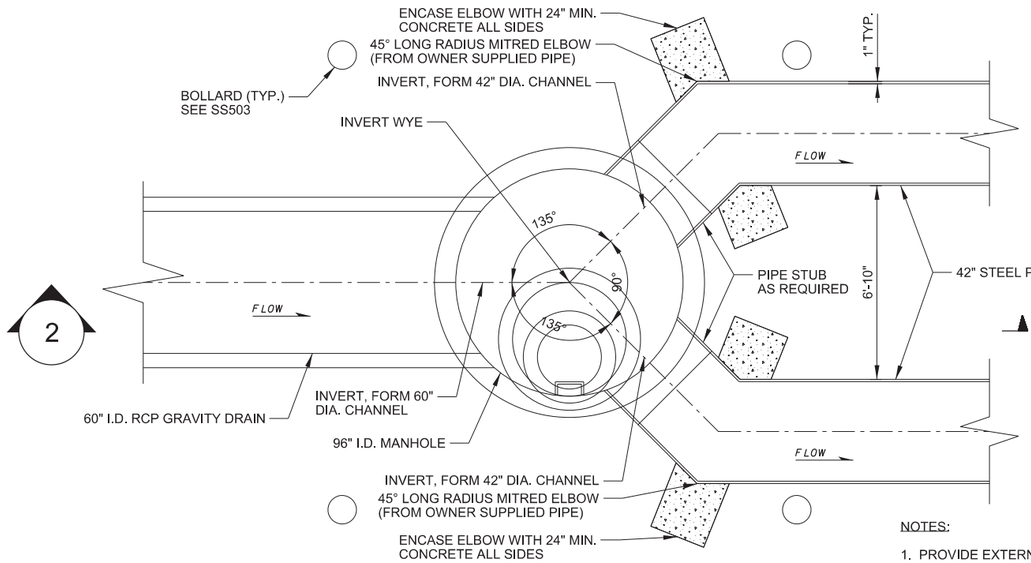
COORDINATE SYSTEM (HORIZONTAL CONTROL)
NAD 83 (2007)
ND SPCS, SOUTH ZONE - US SURVEY FEET
COMBINED SCALE FACTOR (CSF): 0.999900290

ELEVATION DATUM (VERTICAL CONTROL)
NAVD 88
GEOID09

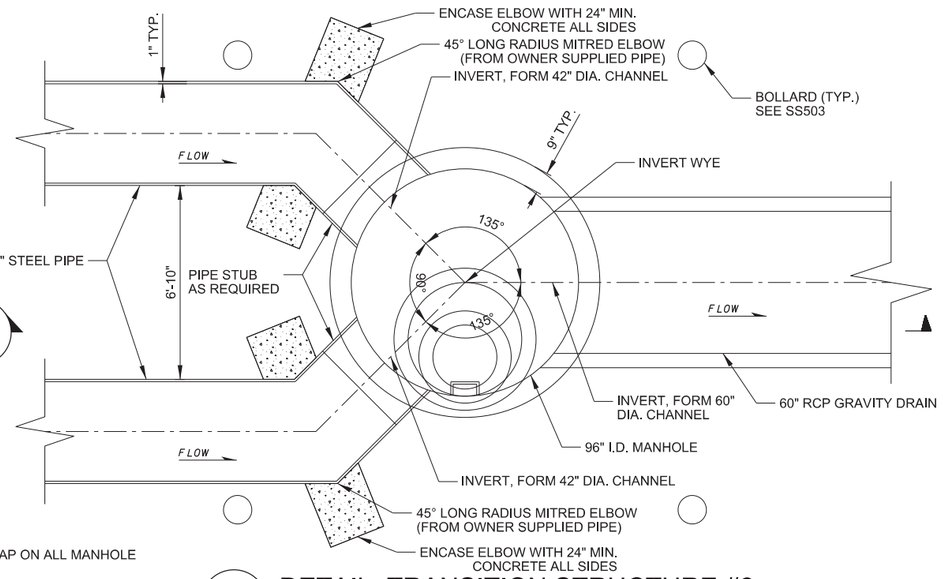
DATE:	6/02/2017(REV0)
REVISED:	
REVISED:	
REVISED:	
RECORD:	
FILE NAME:	FMM43D_CJ301—.dgn
PROJECT No.	1014-230
DRAWN BY:	NDR/BJH
CHECKED BY:	MRM/AMP
PROJ. MANAGER:	MRM
PROJ. DESIGNER:	MAK2

CJ301

M:\Design\34091004,10\L04_Levee_Ring_Phase_WP-43D\30000 - Planning & Engineering & Design\30AA0 - Engineering & Design\CAD_BIM_Sheets\FMM43D_CJ301—.dgn
PLAN
6/2/2017 9:54:12 AM



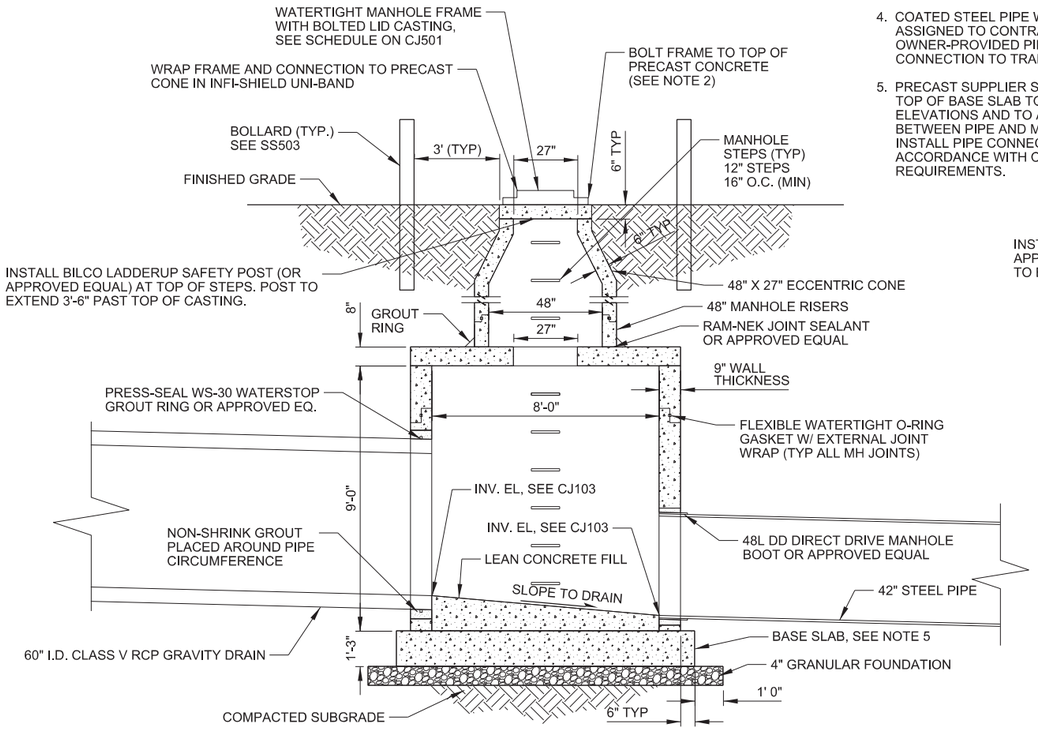
1 CJ103 DETAIL: TRANSITION STRUCTURE #1
NOT TO SCALE



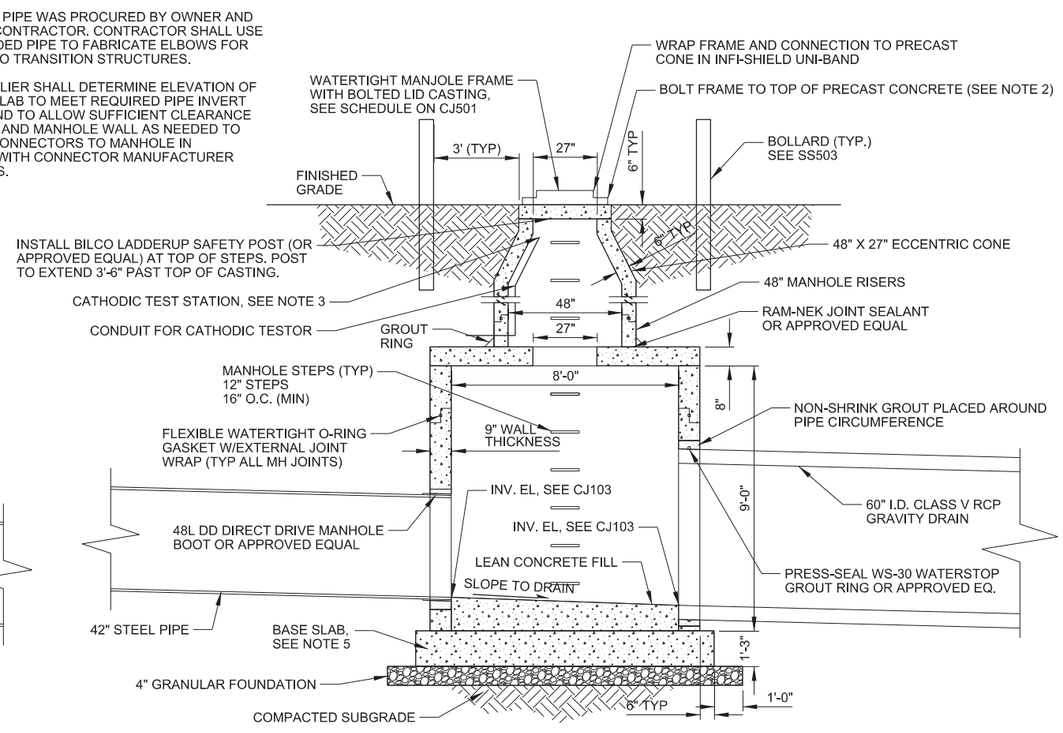
3 CJ103 DETAIL: TRANSITION STRUCTURE #2
NOT TO SCALE

NOTES:

1. PROVIDE EXTERNAL JOINT WRAP ON ALL MANHOLE JOINTS.
2. MOUNT CASTING USING 3/4" X 3-3/4" STAINLESS STEEL WEDGE ANCHORS.
3. MOUNT CATHODIC PROTECTION TEST STATION IN TRANSITION STRUCTURE #2 WITHIN 12" OF TOP CASTING, BESIDE LADDER. SEE 1/CJ403.
4. COATED STEEL PIPE WAS PROCURED BY OWNER AND ASSIGNED TO CONTRACTOR. CONTRACTOR SHALL USE OWNER-PROVIDED PIPE TO FABRICATE ELBOWS FOR CONNECTION TO TRANSITION STRUCTURES.
5. PRECAST SUPPLIER SHALL DETERMINE ELEVATION OF TOP OF BASE SLAB TO MEET REQUIRED PIPE INVERT ELEVATIONS AND TO ALLOW SUFFICIENT CLEARANCE BETWEEN PIPE AND MANHOLE WALL AS NEEDED TO INSTALL PIPE CONNECTORS TO MANHOLE IN ACCORDANCE WITH CONNECTOR MANUFACTURER REQUIREMENTS.



2 SECTION: TRANSITION STRUCTURE #1
NOT TO SCALE



4 CJ403 SECTION: TRANSITION STRUCTURE #2
NOT TO SCALE

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HMG HOUSTON - MOORE GROUP

OXBOW - HICKSON - BAKKE RING LEVEE - PHASE CD
WORK PACKAGE 43CD
CASS COUNTY, NORTH DAKOTA
CIVIL DETAILS - TRANSITION STRUCTURES

COORDINATE SYSTEM (HORIZONTAL CONTROL)
NAD 83 (2007)
ND SPCS, SOUTH ZONE - US SURVEY FEET
COMBINED SCALE FACTOR (CSF): 0.999900290

ELEVATION DATUM (VERTICAL CONTROL)
NAVD 88
GEOID09

DATE:	6/02/2017(REV0)
REVISED:	6/16/2017(REV1)
REVISED:	
REVISED:	
RECORD:	
FILE NAME:	FMM43D_CJ502--.dgn
PROJECT No.	1014-230
DRAWN BY:	NDR/BJH
CHECKED BY:	MRM/AMP
PROJ. MANAGER:	MRM
PROJ. DESIGNER:	MAK2

CJ502

M:\Design\34091004.10\L04_Levee_Ring_Phase_WP-43D\330000 - Planning & Engineering & Design\30AA0 - Engineering & Design\CAD_BIM_Sheets\FMM43D_CJ502--.dgn
PLAN
6/16/2017 11:08:12 AM

MEYER CONTRACTING

September 8, 2017

Mr. Mitchell Haskins, Project Construction Manager
CH2M HILL Engineers, Inc.
64 4th Street North, Suite 300
Fargo, ND 58103

Subject: Oxbow-Hickson-Bakke Ring Levee-Phases C and D; Work Package 43CD
Change Order Request – Contractor Furnished Aquashield Heat-Shrink Sleeves

Dear Mr. Haskins,

We have been required to purchase Aquashield heat-shrink sleeves to supplement the shortage of Owner-Furnished Products. The cost to Meyer for these Aquashield heat-shrink sleeves was $1,787.26.

Based on the aforementioned information and calculation of cost impact we hereby request additional compensation in the amount of $2,055.35.

Thank you.

Respectfully,

Jeremy Gibbs
Meyer Contracting, Inc.

11000 93rd Avenue North – Maple Grove MN 55369-4100
office. 763-391-5959 fax. 763.391.5960

DUPLICATE

INVOICE

1830 Craig Park Court
St. Louis, MO 63146

Invoice #	H746416
Invoice Date	9/07/17
Account #	125425
Sales Rep	SCOTT SMITH
Phone #	952-937-9666
Branch #230	Eden Prairie, MN
Total Amount Due	$1,787.25

Remit To:
CORE & MAIN LP
PO BOX 28330
ST LOUIS, MO 63146

MEYER CONTRACTING INC
11010 93RD AVE N STE A
MAPLE GROVE MN 55369-4125

Shipped To:
INT:US HWY 81 & OXBOW DRIVE
SITE CONTACT:
BRIAN-763 203 4485
OXBOW, ND

CUSTOMER JOB- OXBOW OXBOW,ND-LEVEE

Thank you for the opportunity to serve you! We appreciate your prompt payment.

Date Ordered	Date Shipped	Customer PO #	Job Name	Job #	Bill of Lading	Shipped Via	Invoice#
8/31/17	9/05/17	SEE BELOW	OXBOW,ND-LEVEE	OXBOW		BEST WAY	H746416

Product Code	Description	Quantity Ordered	Shipped	B/O	Price	UM	Extended Price
	CUSTOMER PO#- OHB RING LEVEE						
	CORE & MAIN PO#- 8327990						
/20015027981	AQW-HS-1060 - 24" TO FIT 43" OD PIPE	5	5		199.87000	EA	999.35
/20015027982	AQW-HS-1060 - 12" TO FIT 43" OD PIPE	6	6		103.05000	EA	618.30

Freight	Delivery	Handling	Restock	Misc
$60.52				

Terms: NET 30
Ordered By: KEVIN

Subtotal:	1,617.65
Other:	60.52
Tax:	109.08
Invoice Total:	$1,787.25

This transaction is governed by and subject to Core & Main's standard terms and conditions, which are incorporated by reference and accepted.
To review these terms and conditions, please visit: http://waterworks.hdsupply.com/TandC

Recommended Contracting Actions

Date: September 28, 2017

Description	Company	Budget Estimate ($)
Construction Change Orders – Diversion Authority		
WP 28A – County Road 16/17 Road Re-alignment **Change Order 01** • Incorporate WCD 01, topsoil stockpile relocation • Add culvert	Meyer Contracting	**$31,155.84**

Technical Advisory Group Recommendation

Meeting Date: 09/19/2017

RECOMMENDATION FOR ACTION:

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

SUMMARY OF CONTRACTING ACTION:

Per the contract review and approval procedures 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 ($)
WP-28A: Riley Brothers, Inc.	
Change Order #1	***31,155.84***

- Incorporate WCD-01, topsoil stockpile relocation
- Add culvert

Summary of Contracting History and Current Contract Action:

The MFDA awarded the WP-28A construction contract to Riley Brothers, Inc. on July 14, 2017 and construction work has begun.

The WP-28A project site is adjacent to the USACE Diversion Inlet Control Structure construction project (WP26). Temporary construction limits are overlapping between the projects and the USACE contractor's stockpiled topsoil needed to be relocated to construct the roadway. Direction was giving to Riley Brothers, Inc. via Work Change Directive (WCD) 01 to relocate the topsoil stockpile. This change order incorporates relocation of the topsoil stockpile into the Contract and adds a 54-inch culvert to address drainage concerns.

Below is a summary of contracting history to date along with the current contracting action, Change Order 1.

Original Agreement or Amendment	Previous Project Cost	Budget ($) Change	Revised Project Cost	Project Start	Project Completion	Comments
Original Contract	0.00	0.00	3,176,953.92	7-Aug-17	27-Jul-18	Contract Award to Riley Brothers.
Change Order No. 1	3,176,953.92	31,155.84	3,208,109.76	7-Aug-17	27-Jul-18	Incorporate WCD-01, add culvert, adjust unit price quantities

Change Order No. 1 Discussion:

The PMC reviewed the proposed change order and a summary of that review is listed below. Change Order No. 1 adds the following changes for an increase of $31,155.84 to the Contract Price and 0 days to the Contract Time. The Change Order consists of the following items:

1. Moving of topsoil material:
   WCD-01 authorized the Contractor to relocate the topsoil stockpile that was place on adjoining construction limits and was not shown on the Plans. The USACE and their contractor, Ames Construction, concur with the proposed work. See attached WCD-01 and draft Change Order 1 for a detailed description of the work. The attached draft Change Order 1 Unit Price Schedule shows the price increase of $9,500.

   a. This change item incorporates WCD-01, relocate the topsoil stockpile.
   b. The schedule change associated with this change item is 0 days.
   c. The PMC has reviewed this change requests and recommends approval.

2. Drainage Modifications:
   Adjacent landowners have expressed concern over the local drainage prior to the construction of the diversion channel. The drainage plan was reviewed and it meets current NDDOT Stream Water Crossing design standards. However, to match the end area of the upstream drainage structures and ease landowner concern, a second 54" culvert will be installed at Sta 401+19. In addition, the existing culverts north and south of County Road 16, crossing 57th St S will be left in place. These changes will be paid for at the unit prices bid for "202-0174, Removal of Pipe All Types and Sizes" (decrease) and "Pipe Conduit 54IN" (increase). The total cost for drainage modifications is $21,655.84.

   a. This change item incorporates the cost to add a second 54" culvert.
   b. The schedule change associated with this change item is 0 days.
   c. The PMC has reviewed this change requests and recommends approval.

This change amount of $31,155.84 is included in the FY-2017 MFDA budget. The PMC reviewed this task order and found it to be acceptable.

ATTACHMENT(S):

1. Draft Change Order 1 with Unit Price Schedule
2. Revised Plans
3. Work Change Directive 01

Submitted by:

John W. Glatzmaier

John Glatzmaier
CH2M
Metro Flood Diversion Project

September 14, 2017
Date

Nathan Boerboom, Diversion Authority Project Manager
Concur: *September 15, 2017* *Non-Concur:* _____

Robert Zimmerman, Moorhead City Engineer
Concur: *September 15, 2017* *Non-Concur* _____

Mark Bittner, Fargo Director of Engineering
Concur: *September 19, 2017* *Non-Concur:* _____

Jason Benson, Cass County Engineer
Concur: *September 15, 2017* *Non-Concur* _____

David Overbo, Clay County Engineer
Concur: *September 14, 2017* *Non-Concur:* _____

Jeff Ebsch, Assistant Cass County Engineer, Diversion Authority Project Manager
Concur: *September 14, 2017* *Non-Concur* _____

Change Order No. 01

Date of Issuance:	9/28/17	Effective Date:	9/28/17
Owner:	Metro Flood Diversion Authority	Owner's Contract No.:	WP-28A
Owner's Representative:	CH2M HILL Engineers, Inc.	Owner's Representative Project No.:	
Contractor:	Riley Brothers, Inc.	Contractor's Project No.:	
Engineer:	Houston-Moore Group, LLC	Work Package No.:	WP-28A
Project:	Fargo-Moorhead Area Diversion	Contract Name:	Cass County Road 16 & 17 Realignment

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

Description:

1. Relocation of Topsoil Berm

   An existing topsoil berm was placed in the WP-28A construction limits of the proposed roadway alignment by the adjoining USACE Diversion Inlet Structure Project Contractor, Ames Construction, and needed to be relocated. The USACE and their contractor, Ames Construction, concur with the proposed work. The work includes: remove, salvage and reconstruct existing topsoil berm located along the south property line from Sta 371+95 to Sta 389+30 to match existing windrow. Windrow to be relocated approximately 30-feet southeast of the existing location. Construct the relocated berm at the location depicted in the provided sheet. The estimated volume of existing topsoil is 2,000 CY. The berm will be shaped similarly to existing dimensions and slope, and seeded with a temporary cover crop for erosion control compliance. The negotiated lump sum price for said work is $9,500.00. The attached Change Order 1 Unit Price Schedule, item "203-0100, Topsoil" shows the price increase. There is no schedule change associated with this change item. This work was authorized in Work Change Directive 01, attached.

2. Drainage Modifications

   Adjacent landowners have expressed concern over the local drainage prior to the construction of the diversion channel. The drainage plan was reviewed and it meets current NDDOT Stream Water Crossing design standards. However, to match the end area of the upstream drainage structures and ease landowner concern, a second 54" culvert will be installed at Sta 401+19. In addition, the existing culverts north and south of County Road 16, crossing 57th St S will be left in place. These changes will be paid for at the unit prices bid for "202-0174, Removal of Pipe All Types and Sizes" and "714-4130 Pipe Conduit 54IN". The total cost for the drainage modifications is $21,655.84. There is no schedule change associated with this change item.

DRAFT

Attachments:

Change Order 1 Unit Price Schedule
Plan Sheets
Work Change Directive 01

CHANGE IN CONTRACT PRICE	CHANGE IN CONTRACT TIMES *[note changes in Milestones if applicable]*
Original Contract Price: **$3,176,953.92**	Original Contract Times: Interim Completion: November 1, 2017 Substantial Completion: July 13, 2018 Final Completion: July 27, 2018
[Increase] [~~Decrease~~] from previously approved Change Orders No.: N/A **$0**	[~~Increase~~] [~~Decrease~~] from previously approved Change Orders No. : Interim Completion: November 1, 2017 Substantial Completion: July 13, 2018 Final Completion: July 27, 2018
Contract Price prior to this Change Order: **$3,176,953.92**	Contract Times prior to this Change Order: Interim Completion: November 1, 2017 Substantial Completion: July 13, 2018 Final Completion: July 27, 2018
[Increase] [~~Decrease~~] of this Change Order: **$31,155.84**	[~~Increase~~] [~~Decrease~~] of this Change Order: Interim Completion: November 1, 2017 Substantial Completion: July 13, 2018 Final Completion: July 27, 2018
Contract Price incorporating this Change Order: **$3,208,109.76**	Contract Times with all approved Change Orders: Interim Completion: November 1, 2017 Substantial Completion: July 13, 2018 Final Completion: July 27, 2018

RECOMMENDED:	ACCEPTED:	ACCEPTED:
By: _____	By: _____	By: _____
Owner's Project Manager (Authorized Signature)	Owner (Authorized Signature)	Contractor (Authorized Signature)
Name: Jeffrey Ebsch	Name: Robert W. Wilson	Name: Larry Swan
Title: Assist. Cass County Eng.	Title: Co-Executive Director	Title: Project Manager
Date: _____	Date: _____	Date: _____

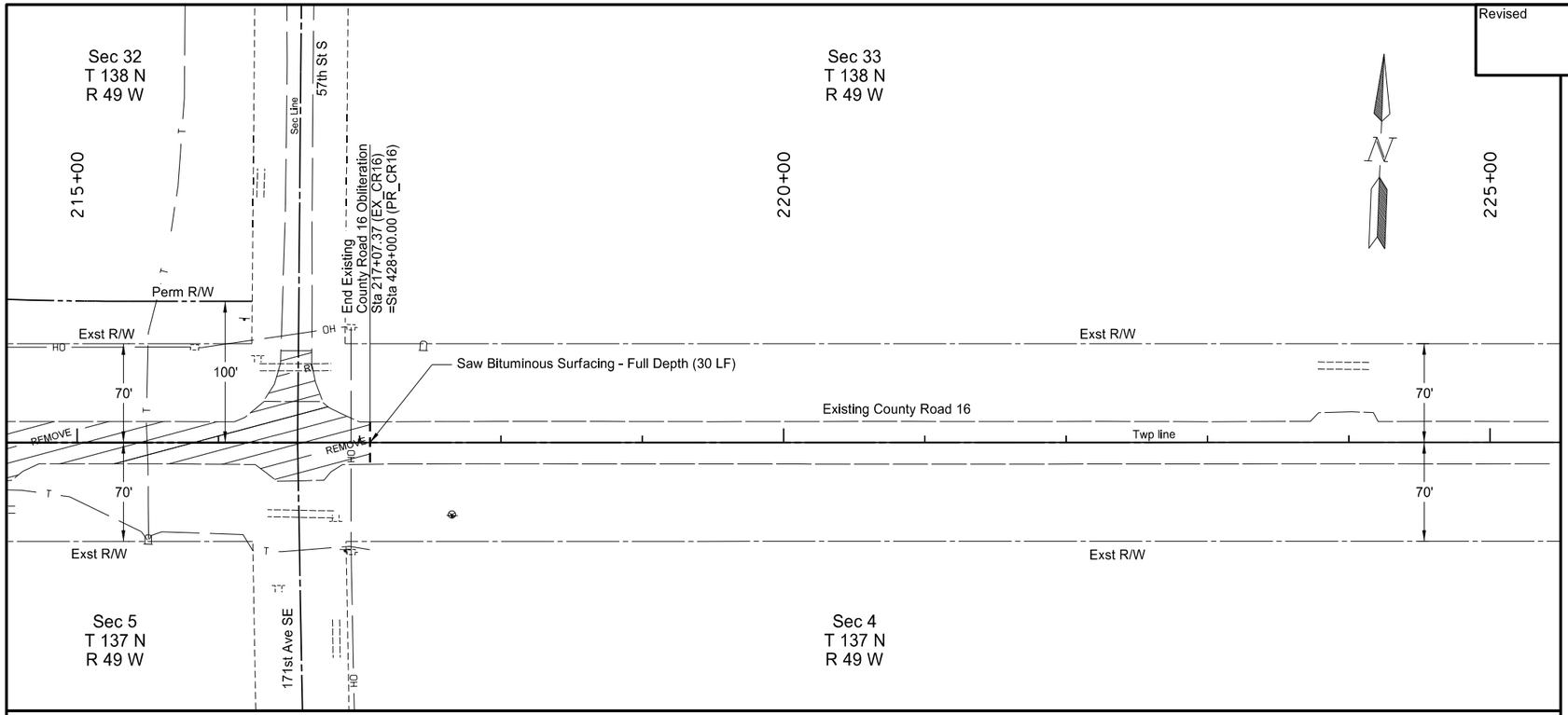
DRAFT

WP-28A
FMM DIVERSION
CASS COUNTY ROAD 16 & 17 REALIGNMENT
12-Sep-17

SPEC	CODE	ITEM DESCRIPTION	UNIT	CURRENT BUDGET			NET CHANGE			UPDATED BUDGET		
				UNIT COST	QUANTITY	TOTAL	UNIT COST	QUANTITY	TOTAL	UNIT COST	QUANTITY	TOTAL
103	0100	CONTRACT BOND	L SUM	$ 22,550.00	1	$ 22,550.00			$ -	$ 22,550.00	1	$ 22,550.00
201	0330	CLEARING & GRUBBING	L SUM	$ 1.00	1	$ 1.00			$ -	$ 1.00	1	$ 1.00
202	0174	REMOVAL OF PIPE ALL TYPES AND SIZES	LF	$ 10.00	261	$ 2,610.00	$ 10.00	-98	$ (980.00)	$ 10.00	163	$ 1,630.00
202	0350	REMOVAL OF TEMPORARY BYPASS	EA	$ 29,974.00	1	$ 29,974.00			$ -	$ 29,974.00	1	$ 29,974.00
203	0101	COMMON EXCAVATION-TYPE A	CY	$ 2.50	23,535	$ 58,837.50			$ -	$ 2.50	23,535	$ 58,837.50
203	0100	TOPSOIL	L SUM				$ 9,500.00	1	$ 9,500.00	$ 9,500.00	1	$ 9,500.00
203	0109	TOPSOIL	CY	$ 2.10	51,659	$ 108,483.90			$ -	$ 2.10	51,659	$ 108,483.90
203	0140	BORROW-EXCAVATION	CY	$ 2.60	93,484	$ 243,058.40			$ -	$ 2.60	93,484	$ 243,058.40
203	0180	ROADWAY OBLITERATION	LF	$ 13.00	4,528	$ 58,864.00			$ -	$ 13.00	4,528	$ 58,864.00
216	0100	WATER	M GAL	$ 13.00	2,042	$ 26,546.00			$ -	$ 13.00	2,042	$ 26,546.00
230	0165	SUBGRADE PREPARATION-TYPE A-12IN	STA	$ 301.00	26	$ 7,826.00			$ -	$ 301.00	26	$ 7,826.00
251	0200	SEEDING CLASS II	ACRE	$ 1,709.00	64.04	$ 109,444.36			$ -	$ 1,709.00	64	$ 109,444.36
251	2000	TEMPORARY COVER CROP	ACRE	$ 25.00	64.04	$ 1,601.00			$ -	$ 25.00	64	$ 1,601.00
253	0101	STRAW MULCH	ACRE	$ 100.00	128.08	$ 12,808.00			$ -	$ 100.00	128	$ 12,808.00
255	0101	ECB TYPE 1	SY	$ 4.00	488	$ 1,952.00			$ -	$ 4.00	488	$ 1,952.00
255	0201	TRM TYPE 1	SY	$ 5.00	219	$ 1,095.00			$ -	$ 5.00	219	$ 1,095.00
261	0112	FIBER ROLLS 12IN	LF	$ 0.64	30,166	$ 19,306.24			$ -	$ 0.64	30,166	$ 19,306.24
261	0113	REMOVE FIBER ROLLS 12IN	LF	$ 0.01	15,083	$ 150.83			$ -	$ 0.01	15,083	$ 150.83
261	0120	FIBER ROLLS 20IN	LF	$ 4.00	80	$ 320.00			$ -	$ 4.00	80	$ 320.00
261	0121	REMOVE FIBER ROLLS 20IN	LF	$ 0.01	40	$ 0.40			$ -	$ 0.01	40	$ 0.40
302	0100	SALVAGED BASE COURSE	TON	$ 12.70	30,807	$ 391,248.90			$ -	$ 12.70	30,807	$ 391,248.90
401	0050	TACK COAT	GAL	$ 2.50	4,756	$ 11,890.00			$ -	$ 2.50	4,756	$ 11,890.00
411	0105	MILLING PAVEMENT SURFACE	SY	$ 3.05	23,548	$ 71,821.40			$ -	$ 3.05	23,548	$ 71,821.40
430	0042	SUPERPAVE FAA 42	TON	$ 39.75	16,621	$ 660,684.75			$ -	$ 39.75	16,621	$ 660,684.75
430	1000	CORED SAMPLE	EA	$ 85.00	96	$ 8,160.00			$ -	$ 85.00	96	$ 8,160.00
430	5828	PG 58-28 ASPHALT CEMENT	TON	$ 375.00	1,003	$ 376,125.00			$ -	$ 375.00	1,003	$ 376,125.00
550	0305	9IN NON-REINF CONCRETE PVMT CL AE-DOWELED	SY	$ 61.50	5,983	$ 367,954.50			$ -	$ 61.50	5,983	$ 367,954.50
702	0100	MOBILIZATION	L SUM	$ 147,635.00	1	$ 147,635.00			$ -	$ 147,635.00	1	$ 147,635.00
704	1000	TRAFFIC CONTROL SIGNS	UNIT	$ 1.50	2,574	$ 3,861.00			$ -	$ 1.50	2,574	$ 3,861.00
704	1052	TYPE III BARRICADE	EA	$ 80.00	18	$ 1,440.00			$ -	$ 80.00	18	$ 1,440.00
704	1500	OBLITERATION OF PAVEMENT MARKINGS	SF	$ 5.00	29	$ 145.00			$ -	$ 5.00	29	$ 145.00
706	0500	AGGREGATE LABORATORY	EA	$ 17,500.00	1	$ 17,500.00			$ -	$ 17,500.00	1	$ 17,500.00
706	0550	BITUMINOUS LABORATORY	EA	$ 7,000.00	1	$ 7,000.00			$ -	$ 7,000.00	1	$ 7,000.00
706	0600	CONTRACTOR'S LABORATORY	EA	$ 11,000.00	1	$ 11,000.00			$ -	$ 11,000.00	1	$ 11,000.00
708	1200	SMALL ROCK COVER	TON	$ 31.50	292	$ 9,198.00			$ -	$ 31.50	292	$ 9,198.00
708	1540	INLET PROTECTION-SPECIAL	EA	$ 250.00	1	$ 250.00			$ -	$ 250.00	1	$ 250.00
708	1541	REMOVE INLET PROTECTION-SPECIAL	EA	$ 250.00	1	$ 250.00			$ -	$ 250.00	1	$ 250.00
709	0161	GEOSYNTHETIC MATERIAL TYPE S1	SY	$ 1.83	1,544	$ 2,825.52			$ -	$ 1.83	1,544	$ 2,825.52
714	4105	PIPE CONDUIT 24IN	LF	$ 63.89	100	$ 6,389.00			$ -	$ 63.89	100	$ 6,389.00
714	4106	PIPE CONDUIT 24IN-APPROACH	LF	$ 43.07	282	$ 12,145.74			$ -	$ 43.07	282	$ 12,145.74
714	4113	PIPE CONDUIT 30IN-APPROACH	LF	$ 62.64	106	$ 6,639.84			$ -	$ 62.64	106	$ 6,639.84
714	4130	PIPE CONDUIT 54IN	LF	$ 198.56	102	$ 20,253.12	$ 198.56	114	$ 22,635.84	$ 198.56	216	$ 42,888.96
722	4060	INLET MOUNTABLE CURB-TYPE B	EA	$ 2,500.00	1	$ 2,500.00			$ -	$ 2,500.00	1	$ 2,500.00
748	0120	CURB & GUTTER MOUNTABLE-TYPE I	LF	$ 16.35	3,534	$ 57,780.90			$ -	$ 16.35	3,534	$ 57,780.90
748	0140	CURB & GUTTER-TYPE I	LF	$ 22.00	440	$ 9,680.00			$ -	$ 22.00	440	$ 9,680.00
750	0200	CONCRETE MEDIAN PAVING	SY	$ 75.00	1,188	$ 89,100.00			$ -	$ 75.00	1,188	$ 89,100.00
750	0210	CONCRETE MEDIAN NOSE PAVING	SY	$ 98.00	39	$ 3,822.00			$ -	$ 98.00	39	$ 3,822.00
754	0110	FLAT SHEET FOR SIGNS-TYPE XI REFL SHEETING	SF	$ 18.00	225.2	$ 4,053.60			$ -	$ 18.00	225	$ 4,053.60
754	0112	FLAT SHEET FOR SIGNS-TYPE IV REFL SHEETING	SF	$ 18.00	274	$ 4,932.00			$ -	$ 18.00	274	$ 4,932.00
754	0141	BARRICADE ASSEMBLY A	EA	$ 350.00	2	$ 700.00			$ -	$ 350.00	2	$ 700.00
754	0193	FLEXIBLE DELINEATORS-TYPE D	EA	$ 28.50	9	$ 256.50			$ -	$ 28.50	9	$ 256.50
754	0206	STEEL GALV POSTS-TELESCOPING PERFORATED TUBE	LF	$ 12.00	1,002	$ 12,024.00			$ -	$ 12.00	1,002	$ 12,024.00
754	0805	OBJECT MARKERS - CULVERTS	EA	$ 50.00	19	$ 950.00			$ -	$ 50.00	19	$ 950.00
760	0005	RUMBLE STRIPS - ASPHALT SHOULDER	MILE	$ 3,965.00	2.704	$ 10,721.36			$ -	$ 3,965.00	3	$ 10,721.36
760	0010	RUMBLE STRIPS - INTERSECTION	SET	$ 3,000.00	2	$ 6,000.00			$ -	$ 3,000.00	2	$ 6,000.00
762	0111	EPOXY PVMT MK 12IN LINE	LF	$ 10.00	136	$ 1,360.00			$ -	$ 10.00	136	$ 1,360.00
762	0113	EPOXY PVMT MK 4IN LINE	LF	$ 0.60	21,137	$ 12,682.20			$ -	$ 0.60	21,137	$ 12,682.20
762	0117	EPOXY PVMT MK 24IN LINE	LF	$ 10.00	34	$ 340.00			$ -	$ 10.00	34	$ 340.00
762	0122	PREFORMED PATTERNED PVMT MK-MESSAGE (GROOVED)	SF	$ 20.00	36	$ 720.00			$ -	$ 20.00	36	$ 720.00
762	1104	PVMT MK PAINTED 4IN LINE	LF	$ 0.30	7,260	$ 2,178.00			$ -	$ 0.30	7,260	$ 2,178.00
762	1305	PREFORMED PATTERNED PVMT MK 4IN LINE-GROOVED	LF	$ 5.00	2,419	$ 12,095.00			$ -	$ 5.00	2,419	$ 12,095.00
762	1309	PREFORMED PATTERNED PVMT MK 8IN LINE-GROOVED	LF	$ 10.00	914	$ 9,140.00			$ -	$ 10.00	914	$ 9,140.00
762	1315	PREFORMED PATTERNED PVMT MK 12IN LINE-GROOVED	LF	$ 20.00	31	$ 620.00			$ -	$ 20.00	31	$ 620.00
766	0100	MAILBOXES-ALL TYPES	EA	$ 100.00	1	$ 100.00			$ -	$ 100.00	1	$ 100.00
770	0001	LIGHTING SYSTEM	EA	$ 80,400.00	1	$ 80,400.00			$ -	$ 80,400.00	1	$ 80,400.00
920	1500	DUST PALLIATIVE MATERIAL	GAL	$ 1.18	12,672	$ 14,952.96			$ -	$ 1.18	12,672	$ 14,952.96
				CURRENT BUDGET		**$ 3,176,953.92**	**NET CHANGE**		**$ 31,155.84**	**UPDATED BUDGET**		**$ 3,208,109.76**

DRAFT

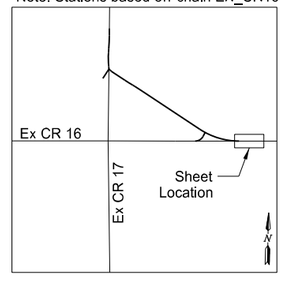
Revised	9/14/17	STATE	PROJECT NO.	SECTION NO.	SHEET NO.
		ND	WP-28A	40	4



Item	Description	Quantity	Unit
203-0180	ROADWAY OBLITERATION Sta 215+00 to Sta 217+07.37	207	LF

REMOVE ROADWAY OBLITERATION

*Note: Stations based off chain EX_CR16



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FMM Diversion

Existing County Road 16

Removals
Sta 215+00 to Sta 217+07.37

Houston Engineering Inc.

STATE	PROJECT NO.	SECTION NO.	SHEET NO.
ND	WP-28A	51	1

Begin Station / Location	Begin Offset	End Station / Location	End Offset	Pipe Installation (Pay Item)			Allowable Material	Required Diameter	Steel Pipe Coatings	Steel Pipe Corrugations or Spiral Ribs	Steel Pipe Minimum Thickness	(*) End Sections	
												Begin	End
				In	Bid Item	LF		In	Type		In	EA	EA
396+68 (Pr_CR16)	57' Lt	397+32 (Pr_CR16)	57' Lt	24"	Pipe Conduit - Approach	64'	Corrugated Steel Pipe	24"	Z, A, P	2, 3/4, 1	0.079	FES	FES
396+71 (Pr_CR16)	56' Rt	397+29 (Pr_CR16)	56' Rt	30"	Pipe Conduit - Approach	58'	Corrugated Steel Pipe	30"	Z, A, P	2, 3/4, 1	0.079	FES	FES
400+80 (Pr_CR16)	43' Lt	401+39 (Pr_CR16)	48' Rt	54"	Pipe Conduit	108'	Reinforced Concrete Pipe	54"				FES	FES
400+87 (Pr_CR16)	48' Lt	401+47 (Pr_CR16)	43' Rt	54"	Pipe Conduit	108'	Reinforced Concrete Pipe	54"				FES	FES
411+91 (Pr_CR16)	57' Rt	412+71 (Pr_CR16)	57' Rt	24"	Pipe Conduit	80'	Reinforced Concrete Pipe	24"				FES	FES
412+02 (Pr_CR16)	50' Lt	412+62 (Pr_CR16)	50' Lt	24"	Pipe Conduit - Approach	60'	Corrugated Steel Pipe	24"	Z, A, P	2, 3/4, 1	0.079	FES	FES
425+04 (Pr_CR16)	47' Rt	425+58 (Pr_CR16)	47' Rt	24"	Pipe Conduit - Approach	54'	Corrugated Steel Pipe	24"	Z, A, P	2, 3/4, 1	0.079	FES	FES
87+48 (Pr_CR17N)	48' Rt	88+07 (Pr_CR17N)	46' Rt	24"	Pipe Conduit - Approach	58'	Corrugated Steel Pipe	24"	Z, A, P	2, 3/4, 1	0.079	FES	FES
91+86 (Pr_CR17N)	50' Lt	92+34 (Pr_CR17N)	50' Lt	30"	Pipe Conduit - Approach	48'	Corrugated Steel Pipe	30"	Z, A, P	2, 3/4, 1	0.079	FES	FES
92+61 (Pr_CR17N)	50' Rt	93+09 (Pr_CR17N)	50' Rt	24"	Pipe Conduit - Approach	46'	Corrugated Steel Pipe	24"	Z, A, P	2, 3/4, 1	0.079	FES	FES
1204+30 (CR16Inc)	19' Rt	1204+30 (CR16Inc)	40' Rt	24"	Pipe Conduit	20'	Reinforced Concrete Pipe	24"				Inlet Mountable Curb-Type B	FES

Coatings: **Z** = Zinc
A = Aluminum
P = Polymeric (over Zinc or Aluminum)

Corrugations: **2** = 2-2/3"x1/2"
3 = 3"x1"
5 = 5"x1"

Spiral Ribs: **3/4** = 3/4"x3/4"@7-1/2"
1 = 3/4"x1"@11-1/2"

(*) The price bid for "Pipe Conduit" bid items includes end sections. Pipe Extensions shall pay for end sections seperately.
FES = Flared End Section
TES = Traversable End Section

Inlet No. 1	
Inlet Mountable Curb-Type B	
Grate Syle	
CR16Inc - Sta 1204+30 - 19' Rt	
Grate Elev	920.92
Base Elev	916.42
Invert Elev	916.45
"H" Dist.	4.50'
24IN RCP NE	916.45

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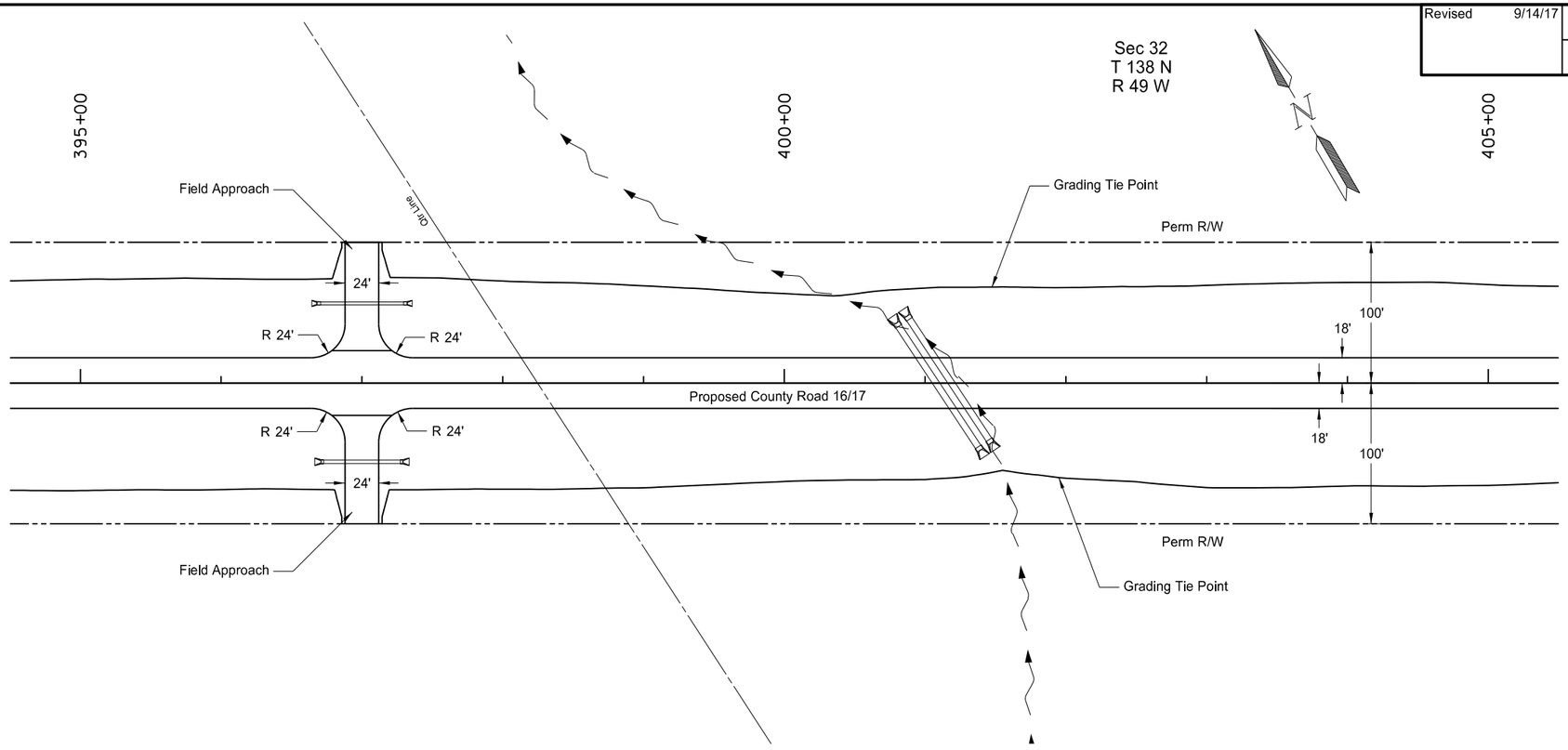
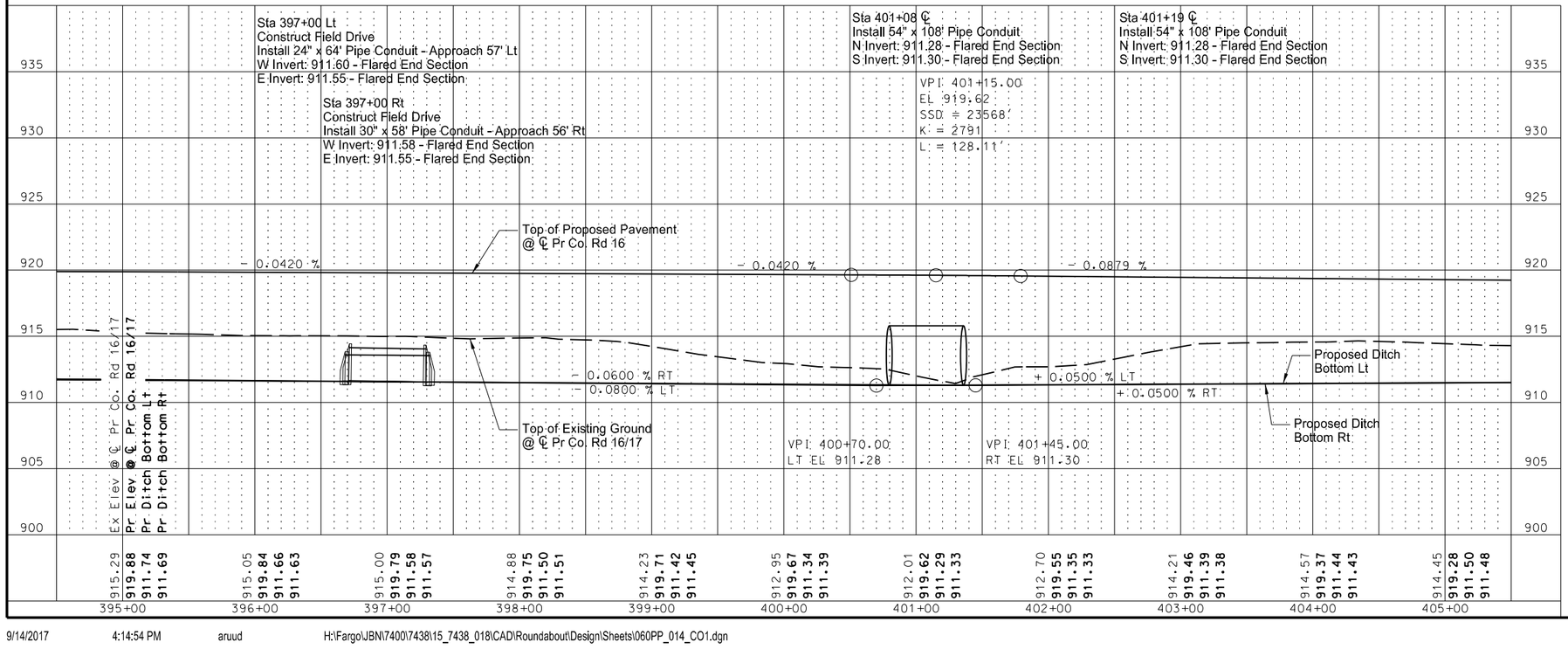
Allowable Pipe List

County Road 16/17 Roundabout

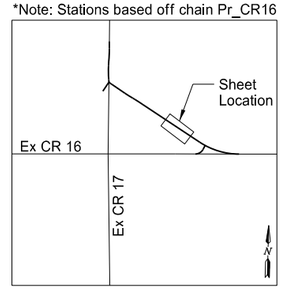
Revised	9/14/17	STATE	PROJECT NO.	SECTION NO.	SHEET NO.
		ND	WP-28A	60	14



Item	Description	Quantity	Unit
302-0100	SALVAGED BASE COURSE Sta 395+00.00 to Sta 405+00.00	2,741	TON
401-0050	TACK COAT Sta 395+00.00 to Sta 405+00.00	502	GAL
430-0042	SUPERPAVE FAA 42 Sta 395+00.00 to Sta 405+00.00	1,760	TON
430-5828	PG 58-28 ASPHALT CEMENT Sta 395+00.00 to Sta 405+00.00	106	TON
714-4106	PIPE CONDUIT 24IN-APPROACH Sta 397+00.00 Lt	64	LF
714-4113	PIPE CONDUIT 30IN-APPROACH Sta 397+00.00 Rt	58	LF
714-4130	PIPE CONDUIT 54IN Sta 401+08.00 ℄ Sta 401+19.00 ℄ Total	108 108 216	LF LF LF



*Note: Stations based off chain Pr_CR16



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FMM Diversion

Proposed County Road 16

Plan & Profile
Sta. 395+00 to Sta. 405+00

Houston Engineering Inc.

FLOOD DIVERSION AUTHORITY

METRO FLOOD DIVERSION PROJECT

WORK CHANGE DIRECTIVE 01

TO: Riley Bros, Inc. PROJECT NO.: WP-28A

PROJECT: Cass County Road 16 & 17 Realignment

OWNER: Metro Flood Diversion Authority

ENGINEER: Houston Moore Group

OWNER'S REPRESENTATIVE: CH2M

DESCRIPTION OF WORK:

The work includes: remove, salvage and reconstruct existing topsoil berm located along the south property line from Sta 371+95 to Sta 389+30 to match existing windrow. Windrow to be relocated approximately 30-feet southeast of the existing location. Construct the relocated berm at the location depicted in the provided sheet. The estimated volume of existing topsoil is 2,000 CY. The berm will be shaped similarly to existing dimensions and slope, and seeded with a temporary cover crop for erosion control compliance. The negotiated lump sum price for said work is $9,500.00.

REASON FOR CHANGE(S):

1. An existing topsoil berm was placed in the WP-28A construction limits of proposed roadway alignment by adjoining USACE Diversion Inlet Structure Project Contractor, Ames Construction, and will need to be relocated.
    a. USACE and their Contractor, Ames Construction, concur with the proposed work.

ATTACHMENTS (List Supporting Documents):

1. Sheet 1 - Ames Topsoil Berm Limits

DESIGN IMPACT (List Impacts):

Is the described change outside of the design parameters? ☐ Yes / ☒ No

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

Adam Ruud 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:

Jeffrey L. Ebsch
Owner's Representative

Jeffrey Ebsen
Assistant Cass County Engineer

8/31/2017
Date

Ordered by:

Robert W. Wilson - Co-Executive Director
Owner

Robert W. Wilson
Co-Executive Director

9/1/17
Date

Copy: Owner
Designer of Record
USACE
Owner's Representative