#### METRO FLOOD DIVERSION AUTHORITY Thursday, January 26, 2017 3:30 PM

Fargo City Commission Room Fargo City Hall 200 3<sup>rd</sup> Street North

1. Call to order

2. Approve minutes from previous meeting <a href="Item2">Item 2</a>. Action

3. Approve order of agenda Action

4. Management Information

a. PMC report

5. Administrative/Legal Information/action

a. Admissibility Agreement – MDNR Working Group

b. Executive Director Position Description Item 5b.

6. Finance Information/action

a. Committee report
b. Voucher approval
c. Recommended contracting actions
ltem 6c.

- 7. Other Business
- 8. Executive Session (if needed)

Meet in executive session pursuant to N.D.C.C. §44-04-19 through §44-04-19.2 for the purpose of attorney client consultation and update regarding matters arising out of or related to the on-going litigation matter of the Richland/Wilkin County Joint Powers Authority v. Army Corps of Engineers and the City of Oxbow as intervenors and to receive legal advice regarding the Minnesota DNR's decision to deny the Dam Safety and Public Waters Work Permit Application submitted by the Metro Flood Diversion Authority

- 9. Next Meeting February 9, 2017
- 10. Adjournment

cc: Local Media

#### METRO FLOOD DIVERSION AUTHORITY JANUARY 12, 2017—3:30 PM

#### 1. MEETING TO ORDER

A meeting of the Metro Flood Diversion Authority was held Thursday, January 12, 2017, at 3:30 PM in the Fargo City Commission Room with the following members present: Fargo City Mayor Tim Mahoney; Fargo City Commissioner Tony Grindberg; Fargo City Commissioner Dave Piepkorn; Cass County Commission representative Darrell Vanyo via conference call; Cass County Commissioner Mary Scherling; Cass County Commissioner Arland Rasmussen; Moorhead City Mayor Del Rae Williams; Moorhead City Council Member Chuck Hendrickson; Moorhead City Council Member Joel Paulsen; Clay County Commissioner Kevin Campbell; Clay County Commissioner Grant Weyland; Cass County Joint Water Resource District Manager Roger Olson; and West Fargo City Commissioner Mike Thorstad.

#### 2. NOMINATION OF VICE CHAIR

MOTION, passed

Mr. Grindberg moved and Mr. Campbell seconded to nominate Del Rae Williams, Moorhead City Mayor, as Vice Chair of the Metro Flood Diversion Authority. Motion carried.

#### 3. DESIGNATION OF SECRETARY

MOTION, passed

Mrs. Scherling moved and Mr. Olson seconded to designate Heather Worden as the Secretary of the Metro Flood Diversion Authority. Motion carried.

#### 4. MINUTES APPROVED

MOTION, passed

Mr. Weyland moved and Mr. Campbell seconded to approve the minutes from the December 15, 2016, meeting as presented. Motion carried.

#### 5. AGENDA ORDER

MOTION, passed

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

#### 6. MANAGEMENT UPDATE

Program management consultant (PMC) report

Randy Richardson from CH2M provided an update on activities over the last month including the release of the Public Private Partnership (P3) Request for Proposals (RFP) to the four short-listed proposers; approval of the FY 2017 annual budget; Phase 1 land acquisition and opportunistic land acquisitions; contract award for the Oxbow home demolition package; continued outreach and coordination with the MN DNR, North Dakota legislature and North Dakota Governor Doug Burgum.

Priority areas for the next month are one-on-one meetings with the P3 proposers; continued work to refine the P3 RFP documents; continued Phase 1 land acquisitions and opportunistic land acquisitions; and participation in the Red River Basin Commission conference.

Ty Smith from CH2M provided an update on in-town levee work and the Oxbow home demolition and relocation project.

#### 7. CORPS OF ENGINEERS UPDATE

Terry Williams, Project Manager from the Corps of Engineers, was present. She provided an update of activities by Corps of Engineers staff which includes issuance of a notice to proceed on the inlet control structure; preparation of preliminary engineering reports for the Wild Rice control structure and southern embankment design; assistance with further development of the P3 RFP; preparation to conduct rights-of-entry and surveys beginning in the spring of 2017; and letter sent to MN DNR Commissioner Tom Landwehr from Colonel Samuel Calkins to reinforce the Corps' position regarding the project.

#### 8. ADMINISTRATIVE/LEGAL UPDATE

#### Adopt Meeting Schedule for 2017

Pursuant to Section 5.11, subsection (b) of the Joint Powers Agreement, at the first meeting in January the board needs to adopt a meeting schedule for the upcoming year.

#### MOTION, passed

Mr. Piepkorn moved and Mr. Olson seconded to adopt the meeting schedule for the Metro Flood Diversion Authority for 2017. Motion carried.

#### CH2M Master Services Agreement and Task Order

Mr. Shockley discussed the Master Services Agreement (MSA) and Task Order No. 1 with CH2M, which were approved by the Finance Committee. He said the most significant difference is a change from a lump sum monthly payment to an hourly rate. The MSA is for a three-year term.

#### MOTION, passed

Mr. Grindberg moved and Mr. Weyland seconded to approve the Master Services Agreement with CH2M. On roll call vote, the motion carried unanimously.

Mr. Shockley said Task Order No. 1 is part of the MSA and is for program management and related services for the period of January 14, 2017, to April 1, 2018.

#### MOTION, passed

Mr. Grindberg moved and Mr. Hendrickson seconded to approve Task Order 1 with CH2M. On roll call vote, the motion carried unanimously.

#### Executive Director position description

Mr. Shockley discussed the draft job description for the Executive Director position along with a proposed notice and timeline for the job search. He asked the board to provide any comments or changes to him over the next two weeks. He said compensation for the position has not been determined.

Mr. Vanyo said there has been discussion about hiring a salary consultant similar to the process used by Fargo and Cass County to determine the salary classification. He also said the timeline includes publication of the job notice for up to four months, but this is flexible dependent on the applications that are received.

The consensus of the board was to set a goal to hire the position by this summer. Mr. Shockley will plan to bring this item back to the board for approval at the next meeting.

#### 9. PUBLIC OUTREACH UPDATE

#### Committee report

The Public Outreach Committee met on January 11<sup>th</sup>. Rocky Schneider from AE2S provided a handout which includes information on the e-newsletter activity and website traffic. He said the newsletter has 1,238 subscribers. Staff also uploaded videos to YouTube which have generated public interest.

#### 10. LAND MANAGEMENT

The Land Management Committee met on January 11<sup>th</sup>. Mrs. Scherling said the committee discussed the 2017 meeting date schedule, the purposes and goals of the committee, and environmental review and access to properties for survey work. She said the actual land acquisitions are handled by the Cass County Joint Water Resource District (CCJWRD).

#### 11. FINANCE UPDATE

#### Committee report

The Finance Committee met on January 11th.

#### Recommended Contracting Actions

#### **Utility Relocation**

Robert Cowen from CH2M discussed the following utility relocation, which was reviewed and approved by the Finance Committee:

• City of Fargo (Utility Relocation)—final payment to relocate fiber communication cable from underneath the 2<sup>nd</sup> Street North flood wall in the amount of \$37,526.38.

#### MOTION, passed

Mr. Grindberg moved and Mr. Weyland seconded to approve the appropriation of funds for the outlined Utility Relocation. On roll call vote, the motion carried unanimously.

#### Voucher approval

The bills for the month are with Springsted, Inc. for financial feasibility analysis services; Ohnstad Twichell, P.C. for P3 bond counsel work and 4<sup>th</sup> Street pump station litigation; and Cass County Joint Water Resource District (CCJWRD) for costs associated with the Metro Flood Diversion, in-town levees, Diversion Project Assessment District, OHB levee, and Oxbow Country Club golf course construction.

Mr. Grindberg said the Finance Committee pulled a \$16,500 line item from the CCJWRD invoice for City of Oxbow auditor services until some questions are answered regarding the cost.

#### MOTION, passed

Mr. Grindberg moved and Mr. Hendrickson seconded to approve the vouchers received through January 4, 2017, in the amount of \$3,092,473.92, which does not include the Oxbow auditor services line item. On roll call vote, the motion carried unanimously.

#### 12. OTHER BUSINESS

Mr. Mahoney said a meeting was held earlier this week with the North Dakota State Appropriations Committee regarding project funding. He said the payout of \$66.5 million in funds will be done over a four biennium period.

Ms. Williams said names for the MN DNR working group have been submitted.

#### 13. NEXT MEETING DATE

The next meeting will be held on Thursday, January 26, 2017.

#### 14. ADJOURNMENT

MOTION, passed

On motion by Mr. Vanyo, seconded by Mrs. Scherling, and all voting in favor, the meeting was adjourned at 4:20 PM.



#### **JOB DESCRIPTION**

JOB TITLE: Executive Director

APPROVED BY: Diversion Authority Board on January \_\_, 2017

#### **GENERAL DESCRIPTION**

The Executive Director is the chief executive officer of the Metro Flood Diversion Authority (MFDA), reporting directly and responsible to the Diversion Authority (DA) Board for the efficient and effective day-to-day administration and leadership of the FM Metro Area Flood Control Diversion Project (Project).

The MFDA is a political subdivision of the State of North Dakota, and it is a joint-powers entity. The MFDA consists of the following Member Entities: the City of Fargo (ND), the City of Moorhead (MN), Cass County (ND), Clay County (MN), and Cass County Joint Water Resource District (ND). The DA Board is the governing body of the MFDA; its members are appointed from the Member Entities' governing bodies, and the DA Board also includes one (1) member from the West Fargo City Commission.

#### **IOB DUTIES**

The Executive Director performs and is responsible for a wide range of duties and tasks as described in the MFDA Joint Powers Agreement. Those and others include, but are not limited to, the following:

- 1. Responsible for the overall management of all affairs and functions under the jurisdiction of the Diversion Authority Board.
- 2. Ensure compliance and enforcement of the MFDA Joint Powers Agreement and resolutions of the DA Board.
- 3. Hire qualified staff to assist the Executive Director in the performance of duties as approved by the DA Board.
- 4. Responsible for the supervision of all MFDA administration and related functions as directed by the DA Board, including:
  - a. Personnel systems
  - b. Budget systems
  - c. Purchasing systems
  - d. Management Information systems
  - e. Communications systems
  - f. Planning

<sup>&</sup>lt;sup>1</sup> The MFDA was created by the Joint Powers Agreement, which sets forth the duties and responsibilities of the Executive Director. See Article XIV of the Joint Powers Agreement, available at *fmdiversion.com*.

- 5. Responsible for all MFDA purchases including procurement of services as directed by the DA Board and pursuant to purchasing regulations established by the DA Board. Administer various agreements and contracts entered into by the DA Board.
- 6. Attend DA Board meetings, recommend to the DA Board for adoption measures necessary for the efficient administration of the MFDA's affairs, and keep the DA Board fully informed of the Project.
- 7. Identify expertise and innovative solutions necessary to administer project tasks, lead a diverse team of consultants, contractors, entity staff, and implement the project.
- 8. In cooperation with the MFDA Finance Committee, prepare and submit to the DA Board a proposed annual budget and long-range capital expenditure program for such period as the DA Board may direct, each of which shall include detailed estimates of revenue and expenditures, and enforce the provisions of the budget when adopted by the DA Board.
- 9. Examine the books and papers of officers and departments of the MFDA as directed by the DA Board and report the findings to the DA Board, keep the DA Board fully advised as to the financial condition and needs of the MFDA, and make such other reports from time to time as required by the Da Board or the Executive Director deems advisable.
- 10. Develop and implement administrative procedures for the MFDA as directed by the DA Board.
- 11. Represent the MFDA in public and stakeholder meetings and events; serve as the MFDA's ambassador.
- 12. Responsible for organizing and directing all aspects of government relations; advocate for the project with local, state, and federal staff and elected officials; serve as the MFDA's legislative liaison with local, state, and federal officials.
- 13. Serve as public information officer for the MFDA.
- 14. Perform such other management and administrative duties as directed from time to time by the DA Board.
- 15. Manage and direct the Program Management Consultant.

#### **QUALIFICATIONS AND EXPERIENCE**

- 1. Skills and experience in the development and implementation of public infrastructure projects (preferably over \$500M in total costs) in a management or administrative position.
- 2. Experience with alternative forms of project delivery, including Design, Build, Finance, Operate, and Maintain (DBFOM) and P3 delivery models.

- 3. Experience with public speaking, presentations, and media relations.
- 4. Experience with multi-jurisdictional stakeholder briefings and involvement.
- 5. Demonstrated ability to maintain focus on critical project issues and make effective decisions to move the project forward.
- 6. Experience implementing projects under the policy direction of a Board of Directors or elected officials using a mixed team of consultants and entity staff.
- 7. Experience with governance development.
- 8. 15+ years of experience required at equal or prerequisite level for the responsibilities and duties of the position.
- 9. Experience in giving public presentations to local, state, and federal elected and appointed officials.
- 10. Experience in advising large public boards, commissions, or city councils.
- 11. Minimum BS/BA or equivalent degree required.
- 12. PMP Certificate/PE preferred, but not required.

#### GENERAL SKILLS AND ABILITIES

- 1. Ability to communicate effectively.
- 2. Effective interpersonal skills.
- 3. Data analysis, project design, and project management skills.
- 4. Labor negotiation and contract administration skills.
- 5. Ability to provide leadership and motivate others.
- 6. Ability to prepare and present reports and informational material effectively.

#### SKILLS AND PERSONAL ATTRIBUTES - SPECIFIC TO MFDA

- 1. Knowledge of local JPA member agencies, staff, and business practices.
- 2. Understanding of the Project; its history, status, and long-term importance to the community.
- 3. Ability to collaborate, build credibility, and establish trust with the Project team, entity staff, the DA Board, and the USACE; foster an effective and collaborative team.

- 4. Ability to operate as the leader of a team of consultants, entity staff, and local stakeholders.
- 5. Capable of launching the JPA, and building processes and procedures to implement the Project consistent with the MFDA JPA.
- 6. Capable and experienced in crisis management, with the ability to proactively manage critical situations.
- 7. Willingness and ability to commit full-time to the Project for a minimum of 3 to 5 years.
- 8. Knowledge of USACE policies and procedures within the context of a locally-led and implemented P3.
- 9. Ability to delegate and leverage team members for effective and efficient Project delivery.
- 10. Excellent oral, written, and presentation communication skills.
- 11. Ability to effectively communicate at all levels: senior elected local, state, and federal officials, staff, public, and members of groups affected by the project.

#### PHYSICAL REQUIREMENTS

Sedentary to light work.

#### **WORKING RELATIONSHIPS**

• Ongoing working relationships with the Member Entities of the MFDA, the Diversion Authority Board and Committee Members, Member Entities' staff, MFDA consultants, USACE, and local, state, and federal officials.

#### POSITION REPORTS TO

Diversion Authority Board

#### **BUDGET**

Total MFDA Annual Budget for 2017: \_\_\_\_\_.

Item 6a.



# 26 January 2017 Finance Committee Report

Presented By:

Program Management Consultant

## Report – January 2017

- Overall Program Status
- FY 2016 Year End
- FY 2017 Cash Budget



## Overall Program Status



## FM Area Diversion Project OVERALL PROGRAM (2015\$) SUMMARY

Schedule Budget Categories	Program Budget (2015\$)	Actuals thru 31 Dec 2016	Remaining Program Budget		
PROGRAM	2,205,566,043	332,400,887	1,873,165,156		
Diversion Channel & Assoc. Infrastructure	763,768,516	3,320,123	760,448,393		
Southern Embankment & Assoc. Infrastructure	371,353,664	51,929,000	319,424,664		
Other Mitigation Projects	64,712,848	6,817,389	57,895,459		
In-Town Flood Protection	204,863,752	71,880,517	132,983,234		
Enabling Work / Other	14,113,749	-	14,113,749		
Land Acquisition & Mitigation	426,589,476	134,519,636	292,069,841		
Engineering & Design Fees	80,539,955	31,602,663	48,937,292		
Program Management	119,725,500	32,331,559	87,393,941		
Contingency	159,898,584	-	159,898,584		
Debt Service					
Maintenance					

### FY 2016 Year End

- Land Acquisition
  - ▶ Wild Rice Control Structure
  - Oxbow-Hickson-Bakke (OHB)
  - Diversion Channel
  - Upstream Staging Area
- Construction
  - ▶ OHB Pump Station, Gatewell, Road Raise, Levee
  - ► CR 16/17 Bridge
- Design / Permitting
  - Work in Kind / MN DNR
- ▶ Proj Mgmt/Legal/Financing
  - ▶ Re-allocation for local share payment to USACE
- Mitigation
- Utility Relocates
  - ► Channel / OHB / In Town
- Retention



### 2016 Diversion Authority Cash Budget

Annual Budget	Current FY16 Budget	Paid thru 31 Dec 2016 FY16	Expected Additional Payments FY 2016	Remaining FY16 Budget
PROGRAM	237,500,000	161,199,358		76,300,642
Land Acquisition	81,211,609	46,766,050		34,445,559
Construction	69,507,794	48,668,631		20,839,163
Design/Permitting	7,910,478	4,608,023.39		3,302,455
Proj Mgmt/Legal/Financing	60,179,000	61,156,653.15		(977,653)
Mitigation	800,000	-		800,000
Utility Relocates	16,491,119	-		16,491,119
Retention	1,400,000	-		1,400,000

## FY 2017 Cash Budget



## FM Area Diversion Project FY2017 CASH BUDGET

Schedule Budget Categories	FY2017 Cash Budget	Paid Thru {date}	Expected Additional Payments FY2017	Remaining FY 2017 Budget
PROGRAM	241,311,231		241,311,231	241,311,231
Diversion Channel & Assoc. Infrastructure	16,575,999		16,575,999	16,575,999
Southern Embankment & Assoc. Infrastructure	100,000		100,000	100,000
Other Mitigation Projects	24,246,248		24,246,248	24,246,248
In-Town Flood Protection	46,175,722		46,175,722	46,175,722
Enabling Work / Other	9,810,803		9,810,803	9,810,803
Land Acquisition & Mitigation	107,419,540		107,419,540	107,419,540
Engineering & Design Fees	10,693,575		10,693,575	10,693,575
Program Management	17,247,196		17,247,196	17,247,196
Contingency	804,879		804,879	804,879
D. L. C.				
Debt Service	8,137,268		8,137,268	8,137,268
Maintenance	100,000		100,000	100,000

Item 6b.

#### Finance Committee Bills through January 18, 2017

Vendor	Description	
Erik R. Johnson & Associates, Ltd.	Legal services rendered through December 31, 2016	\$ 1,453.04
Tatal Dilla Danaina dalamanah Januara 40, 2047		 4 452 04
Total Bills Received through January 18, 2017		\$ 1,453.04

#### Erik R. Johnson & Associates, Ltd.

Attorneys at Law

City of Fargo-Auditor's Office Attn: Kent Costin 200 North Third Street Fargo, ND 58102

Invoice No. 2504

RE: Metro Flood Project-General Legal Matters

#### For Legal Services Rendered Through December 31, 2016

#### INVOICE TOTAL

Total for Current Legal Fees	\$1362.80
Total for Current Disbursements and Service Charges	\$90.24
Total for Current Invoice	\$1453.04
Summary of Account	
*Prior Balance Due	\$
Total Amount Due	\$1453.04

<sup>\*</sup>If payment has been submitted for prior balance due, please disregard.

We appreciate your business.

7910-429.33-25 U0010Z

## Recommended Contracting Actions Summary Construction Change Orders

#### Pending Approval of Finance Committee

Construction Change Orders		
WP-42A.1/A.3, 4 <sup>th</sup> Street Pump Station Change Order 09	ICS, Inc.	\$12,506.80
<ul> <li>Fuel level Sensors, Floodwall coping, and Trash Rack Modifications</li> </ul>		
Total Construction Change Orders		\$12,506.80



Meeting Date: 01/17/2017



#### **Technical Advisory Group Recommendation**

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

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

Description Budget Estimate (\$)

ICS, Inc.

Change Order #09 \$12,506.80

WP-42A.1/A.3, 4<sup>th</sup> Street Pump Station and Floodwall – Fuel level Sensors, Floodwall Coping, and Trash Rack Modifications.

#### **Summary of Contracting History and Current Contract Action:**

Original Agreement or Amendment	Budget (\$) Change	Previous Project Cost	Revised Project Cost	Project Start	Project Completion	Comments
WP-42A.1/A.3 contract	17,361,616.35	0.00	17,361,616.35	11-Dec-14	11-Nov-16	Awarded 4 <sup>th</sup> Street Pump Station and 2 <sup>nd</sup> Street South Floodwall
Change Order 1	268,555.24	17,361,616.35	17,630,171.59	11-Dec-14	11-Nov-16	Fargo Highrise parking lot modifications and other costs
Change Order 2	176,462.97	17,630,171.59	17,806,634.56	11-Dec-14	11-Nov-16	Unknown underground structures and other costs
Change Order 3	(10,570.93)	17,806,634.56	17,796,063.63	11-Dec-14	11-Nov-16	Deduct exterior electrical work and install fence, bollards, and lights at Fargo Highrise
Change Order 4	15,174.67	17,796,063.63	17,811.238.30	11-Dec-14	11-Nov-16	Time extensions and multiple cost adjustments for Engineerand Owner-directed items.
Change Order 5	70,363.71	17,811,238.30	17,881,601.31	11-Dec-14	11-Nov-16	Last of suspended changes, sanitary overflow connection, T&M budget for ACM removal

Change Order 6	147,079.47	17,881,601.31	18,028,681.48	11-Dec-14	11-Nov-16	Last of suspended changes, erosion blanket, still wells, unsuitable materials and additional asbestos wrapped pipe.
Change Order 7	11,147.81	18,028,681.48	18,036,371.39	11-Dec-14	13-Sept-17	Sanitary Overflow Brackets, ST-4 Flared End with Grate, Sluice Gate Actuator Covers and 2" nuts, Updated Lot Grading Plan, Milestone and Project Completion Date Resets, and Time Additions.
Change Order 8	2,386.00	18,036,371.39	18,038,757.39	11-Dec-14	13-Sept-17	Reprogramming Display and Generator Building Fuel Storage Area Drain
Change Order 9	12,506.80	18,038,757.39	18,051,264.19	11-Dec-14	13-Sept-17	Fuel Sensors, Floodwall Coping, and Trash Rack Modifications

#### **DISCUSSION**

Change Order No. 9 increases the Contract Price by a total of \$12,506.80 as listed below:

- 1. **Fuel Level Sensors.** The generator fuel tank's fuel level sensing system is specified to alarm at three (3) levels: low level alarm at 15% capacity, a high level alarm at 95%, and a high-high level alarm at 98% capacity. This Owner requested change will add three level sensing points: 25%, 50%, and 75% capacity, to allow better monitoring of fuel levels. Four systems were proposed by Fusion, the Contractor's electrical Subcontractor and the Owner selected Option A as the preferred option. The 2<sup>nd</sup> Street pump station was outfitted with a similar sensing system that monitors these additional fuel tank levels. This change adds \$1,906.80 to the Contract Price. The Owner's Representative and Engineer have reviewed this cost and found it to be reasonable.
- 2. **Floodwall Coping.** At the Owner's request, higher pitched floodwall coping is being incorporated on the in-town floodwalls to discourage personal access to the top of the wall once complete. This change is consistent with changes made on 42F.1S and 42F.1N. This adds \$4,205.00 to the Contract Price for the Contractor to furnish and install higher pitched wall caps than were originally specified. The Owner's Representative and Engineer have reviewed this cost and found it to be reasonable.
- 3. **Trash Rack Modifications.** The installed trash racks do not operate smoothly and jam frequently during operation. The Engineer, with assistance from the Contractor, has researched and developed a solution that includes fabricating and installing additional guide rollers on each of the trash racks. This change adds \$6,393.00 to the Contract Price to fabricate, install, and test the guide rollers. The Owner's Representative and Engineer have reviewed this cost and found it to be reasonable.

#### ATTACHMENT(S):

Draft Change Order No. 9

Fuel Level Sensor Cost Letter from ICS dated 1/3/2017

Floodwall Coping Cost Letter from ICS dated 1/3/2017

Trash Rack Modifications Cost Letter from ICS dated 1/5/2017

#### Submitted by:

Concur: January 17, 2017 Non-Concur:

January 16, 2017 Tyler Smith, P.E. Date CH2M Project Manager Metro Flood Diversion Project April Walker, Fargo City Engineer Mark Bittner, Fargo Director of Engineering Concur: January 17, 2017 Non-Concur Concur: January 17, 2017 Non-Concur: Jason Benson, Cass County Engineer David Overbo, Clay County Engineer Concur: January 17, 2017 Non-Concur Concur: Non-Concur: Nathan Boerboom, Diversion Authority Project Robert Zimmerman, Moorhead City Engineer Concur: January 17, 2017 Manager Non-Concur



		Change Order No.	09						
Date of Issuance:	01/26/2017	Effective Date:	12/01/2016						
Owner: Metro	Flood Diversion Authority	Owner's Contract No.:	WP-42A.1/A.3						
Owner's Representative: CH2M HILL Engineers, Inc.		Owner's Representative Project No.:	435534						
Contractor: ICS, Inc.		Contractor's Project No.:	1114						
Engineer:	Houston-Moore Group, LLC	Work Package No.:	WP-42A.1/A.3						
Project: Fargo-Moorhead Area Diversion Contract Name: 4 <sup>th</sup> Street Pump Station and Gatewell and 2 <sup>nd</sup> Street Floodwall South									

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

#### **Description:**

#### 1. FUEL LEVEL SENSORS

Add \$1,906.80 to the Contract Price to accommodate additional fuel level sensors that will monitor the 25%, 50%, and 75% fuel levels in the generator fuel tank.

#### 2. FLOODWALL COPING

Add \$4205.00 to the Contract Price for the contractor to furnish and install higher pitched wall coping for the floodwall south of 2<sup>nd</sup> Street.

#### 3. TRASH RACK MODIFICATIONS

Add \$6,393.00 to the Contract Price to accommodate the installation of modifications to the trash racks.

#### Attachments:

Change Order 9 Unit Price Schedule dated 1/11/2017

CHANGE IN CONTRACT PRICE	CHANGE IN CONTRACT TIMES
Original Contract Price:	Original Contract Times:
	Milestone 4.02.A.02: November 1, 2015
	Milestone 4.02.A.02a: <u>NA</u>
	Milestone 4.02.A.03: <u>July 31, 2015</u>
	Milestone 4.02.A.04: August 20, 2015
	Milestone 4.02.A.05: November 13, 2015
	Milestone 4.02.A.06: <u>January 26,2016</u>
	Milestone 4.02.A.07: <u>September 5, 2016</u>
	Substantial Completion 4.02 B: September 5, 2016
17,361,616.3	Final Completion 4.02 B: November 11, 2016

[Increase] [Decrease] from previously	[Increase] [Decrease] from previously approved
approved Change Orders No. <u>01</u> thru <u>07</u> :	Change Orders No. <u>01</u> thru <u>06</u> :
	Milestone 4.02.A.02: <u>30 days</u>
	Milestone 4.02.A.02.a: <u>14 days</u>
	Milestone 4.02.A.03: 29 days
	Milestone 4.02.A.04: 29 days
	Milestone 4.02.A.05: 30 days
	Milestone 4.02.A.06: 309 days
	Milestone 4.02.A.07: 309 days
	Substantial Completion 4.02 B: 309 days
677,141.04	Final Completion 4.02 B: 306 days
Contract Price prior to this Change Order:	Contract Times prior to this Change Order:
	Milestone 4.02.A.02: <u>December 1, 2015</u>
	Milestone 4.02.A.02a: November 15, 2015
	Milestone 4.02.A.03: <u>August 29, 2015</u>
	Milestone 4.02.A.04: <u>September 18, 2015</u>
	Milestone 4.02.A.05: <u>December 13, 2015</u>
	Milestone 4.02.A.06: <u>December 3,2016</u>
	Milestone 4.02.A.07: <u>July 11, 2017</u>
	Substantial Completion 4.02 B: July 11, 2017
18,038,757.39	Final Completion 4.02 B: September 13, 2017
[Increase] [Decrease] of this Change Order:	[Increase] [Decrease] of this Change Order:
	Milestone 4.02.A.07: 2 days
12,506.80	Substantial Completion 4.02 B: 2 days
Contract Price incorporating this Change	Contract Times with all approved Change Orders:
Order:	
	Milestone 4.02.A.02: <u>December 1, 2015</u>
	Milestone 4.02.A.02a: <u>November 15, 2015</u>
	Milestone 4.02.A.03: <u>August 29, 2015</u>
	Milestone 4.02.A.04: <u>September 18, 2015</u>
	Milestone 4.02.A.05: <u>December 13, 2015</u>
	Milestone 4.02.A.06: <u>December 3,2016</u>
	Milestone 4.02.A.07: <u>July 13, 2017</u>
	Substantial Completion 4.02 B: <u>July 13, 2017</u>
18,051,264.19	Final Completion 4.02 B: <u>September 13, 2017</u>
RECOMMENDED: AC	CEPTED: ACCEPTED:
By: By:	By:
Owner's Representative	Owner Contractor
	Authorized Signature) (Authorized Signature)
Title: Construction Manager Title: Date: Date:	Title:
Date: 01/26/2017 Date:	Date:

Change Order 9 Unit Price Schedule DATE: 1/11/2016



		WP-42A.1/A.3 - 4th Street Pump Station and Gatewell - 2nd Street Floodwall South												
Manual	ITEN4	DESCRIPTION	LINUT	Cu	rrent Budget (thru	CO-06)			Net Change				New Budget	
	HEIVI	DESCRIPTION	UNII	QUANTITY	UNIT PRICE	Δ.	AMOUNT	QUANITY	UNIT PRICE	AMOUNT	QUANITY	U	INIT PRICE	AMOUNT
Part	0001	Mobilization	LS	1	\$ 350,000.00	\$	350,000.00	0	\$ -	\$ -	1	\$	350,000.00	\$ 350,000.00
Control   Process Section	0002	Remove Sanitary Sewer Manhole	EA	2	\$ 1,100.00	\$	2,200.00	0	\$ -	\$ -	2	\$	1,100.00	\$ 2,200.00
Section   Sect	0003	F&I Pipe SDR 26 - 10" Dia PVC	LF	145	\$ 70.00	\$	10,150.00	0	\$ -	\$ -	145	\$	70.00	\$ 10,150.00
Section   Sect	0004	Remove Sanitary Sewer Pipe All Sizes All Types	LF	140	\$ 11.00	\$	1,540.00	0	\$ -	\$ -	140	\$	11.00	\$ 1,540.00
No.	0005	Rem & Repl Sanitary Sewer Casting - Floating Manhole	EA	1	\$ 800.00	\$	800.00	0	\$ -	\$ -	1	\$	800.00	\$ 800.00
No.   Color	0006	Sanitary Sewer Manhole	EA	2	\$ 4,500.00	\$	9,000.00	0	\$ -	\$ -	2	\$	4,500.00	\$ 9,000.00
Section   Sect	0007	Sanitary Sewer Exterior Drop Manhole	EA	1	\$ 12,000.00	\$	12,000.00	0	\$ -	\$ -	1	\$	12,000.00	\$ 12,000.00
State   Procession   Processi	8000	F&I 5" Hydrant	EA	2	\$ 6,000.00	\$	12,000.00	0	\$ -	\$ -	2	\$	6,000.00	\$ 12,000.00
A	0009	Salvage Hydrant	EA	2	\$ 600.00	\$	1,200.00	0	\$ -	\$ -	2	\$	600.00	\$ 1,200.00
Remove Water Main Pipe All Sizes All Types  1. 1. 2. 3. 1. 1. 1. 2. 2. 2. 2. 2. 2. 2. 2. 2. 2. 2. 2. 2.	0010	F&I Pipe C900 DR 18 - 6" Dia PVC	LF	479	\$ 60.00	\$	28,740.00	0	\$ -	\$ -	479	\$	60.00	\$ 28,740.00
Fal Cate Valve 0"Dio   Fal Cate Valve 0"Dio   Fal Cate Valve 10"Dio   Fal Manhole 4"Dia Reinf Conc   Fal Cate Valve 10"Dio   Fal Manhole 4"Dia Reinf Conc   Fal Cate Valve 10"Dio   Fal Manhole 6"Dia Reinf Conc   Fal Cate Valve 10"Dio   Fal Manhole 6"Dia Reinf Conc   Fal Cate Valve 10"Dio   Fal Manhole 6"Dia Reinf Conc   Fal Cate Valve 10"Dio   Fal Manhole 6"Dia Reinf Conc   Fal Cate Valve 10"Dio   Fal Manhole 7"Dia Reinf Conc   Fal Cate Valve 10"Dio   Fal Manhole 7"Dia Reinf Conc   Fal Cate Valve 10"Dio   Fal Manhole 7"Dia Reinf Conc   Fal Cate Valve 10"Dio   Fal Manhole 7"Dia Reinf Conc   Fal Cate Valve 10"Dio   Fal Manhole 7"Dia Reinf Conc   Fal Cate Valve 10"Dio   Fal Manhole 7"Dia Reinf Conc   Fal Cate Valve 10"Dio   Fal Manhole 7"Dia Reinf Conc   Fal Cate Valve 10"Dio   Fal Manhole 7"Dia Reinf Conc   Fal Cate Valve 10"Dio   Fal Manhole 7"Dia Reinf Conc   Fal Cate Valve 10"Dio   Fal Manhole 7"Dia Reinf Conc   Fal Cate Valve 10"Dio   Fal Manhole 7"Dia Reinf Conc   Fal Cate Valve 10"Dio   Fal Manhole 7"Dia Reinf Conc   Fal Cate Valve 10"Dio   Fal Manhole 7"Dia Reinf Conc   Fal Cate Valve 10"Dio   Fal Manhole 7"Dia Reinf Conc   Fal Cate Valve 10"Dio   Fal Manhole 7"Dia Reinf Conc   Fal Cate Valve 10"Dio   Fal	0011	F&I Pipe C900 DR 18 - 10" Dia PVC	LF	416	\$ 65.00	\$	27,040.00	0	\$ -	\$ -	416	\$	65.00	\$ 27,040.00
Part	0012	Remove Water Main Pipe All Sizes All Types	LF	697	\$ 11.00	\$	7,667.00	0	\$ -	\$ -	697	\$	11.00	\$ 7,667.00
National Princips   Control Watermain Fittings   Control Watermain Fitti	0013	F&I Gate Valve 6" Dia	EA	5	\$ 2,200.00	\$	11,000.00	0	\$ -	\$ -	5	\$	2,200.00	\$ 11,000.00
016 F8I Overflow Structure  EA 1 S 18,000.00 S 18,000.	0014	F&I Gate Valve 10" Dia	EA	3	\$ 4,000.00	\$	12,000.00	0	\$ -	\$ -	3	\$	4,000.00	\$ 12,000.00
017 F8.I Manhole 4' Dia Reinf Conc  EA 3 \$ 5,000.00 \$ 15,000.00  EA 1 1 \$ 5,000.00 \$ 5 15,000.00  EA 2 5 20,000.00 \$ 5 15,000.00  EA 3 5 5,000.00  EA 2 5 20,000.00 \$ 5 10,000.00  EA 3 5 5,000.00  EA 3 5 5 5 5 5 5 5 5 5 5 5 5 5 5 5 5 5 5	0015	Watermain Fittings	LBS	4,157	\$ 12.00	\$	49,884.00	0	\$ -	\$ -	4,157	\$	12.00	\$ 49,884.00
DO18 F8! Manhole 5' Dia Reinf Conc  EA 1 5 5,000.00 5 5,000.00 0 5 - 5 - 5 - 1 5 5,000.00 5 5,000.00 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0	0016	F&I Overflow Structure	EA	1	\$ 18,000.00	\$	18,000.00	0	\$ -	\$ -	1	\$	18,000.00	\$ 18,000.00
0019 F&I Manhole 6' Dia Reinf Conc  EA 2 \$ 20,000.00 \$ 40,000.00 \$ 0 \$ \$ \$ \$	0017	F&I Manhole 4' Dia Reinf Conc	EA	3	\$ 5,000.00	\$	15,000.00	0	\$ -	\$ -	3	\$	5,000.00	\$ 15,000.00
F&I Manhole Type   Reinf Conc   EA   3   \$ 22,000.00   \$ 66,000.00   0   \$ -	0018	F&I Manhole 5' Dia Reinf Conc	EA	1	\$ 5,000.00	\$	5,000.00	0	\$ -	\$ -	1	\$	5,000.00	\$ 5,000.00
DO21 F&I Manhole Type E Reinf Conc (ST-4)  EA 1 2 5 70,000.00 \$ 140,000.00  DO22 F&I Manhole Type E Reinf Conc (ST-4)  EA 1 5 250,000.00 \$ 250,000.00  DO23 F&I Manhole Type E Reinf Conc (ST-3)  EA 1 1 5 225,000.00 \$ 225,000.00  DO24 F&I Manhole Type E Reinf Conc (ST-2)  EA 1 1 5 225,000.00 \$ 225,000.00  DO25 F&I Manhole Type E Reinf Conc (ST-1)  EA 1 1 5 225,000.00 \$ 225,000.00  DO26 Remove Storm Sewer Manhole  EA 5 5 600.00 \$ 3,000.00  DO27 F&I Inlet - Manhole (MHI) 4' Dia Reinf Conc  EA 1 1 5 15,000.00 \$ 15,000.00  EA 1 1 5 15,000.00  EA	0019	F&I Manhole 6' Dia Reinf Conc	EA	2	\$ 20,000.00	\$	40,000.00	0	\$ -	\$ -	2	\$	20,000.00	\$ 40,000.00
F&I Manhole Type E Reinf Conc (ST-4)  EA 1 \$ 250,000.00 \$ 250,000.00 \$ \$ - \$ - \$ - 1 \$ \$ 250,000.00 \$ 225,000.00 \$ 0 \$ 225,000.00 \$ 0 \$ \$ - \$ \$ - \$ 1 \$ \$ 250,000.00 \$ \$ 225,000.00 \$ 0 \$ 0 \$ \$ - \$ \$ - \$ 1 \$ \$ 250,000.00 \$ \$ 225,000.00 \$ 0 \$ \$ 225,000.00 \$ 0 \$ \$ - \$ \$ - \$ 1 \$ \$ 225,000.00 \$ \$ 225,000.00 \$ 0 \$ \$ - \$ \$ - \$ 1 \$ \$ 5,000.00 \$ \$ 225,000.00 \$ 0 \$ \$ - \$ \$ - \$ 1 \$ \$ 5,000.00 \$ \$ 225,000.00 \$ 225,000.00 \$ 225,000.00 \$ 225,000.00 \$ 225,000.00 \$ 225,000.00 \$	0020	F&I Manhole 7' Dia Reinf Conc	EA	3	\$ 22,000.00	\$	66,000.00	0	\$ -	\$ -	3	\$	22,000.00	\$ 66,000.00
F&I Manhole Type E Reinf Conc (ST-3)  EA  1 \$ 225,000.00 \$ 225,000.00  0024 F&I Manhole Type E Reinf Conc (ST-2)  EA  1 \$ 225,000.00 \$ 225,000.00  0025 F&I Manhole Type E Reinf Conc (ST-1)  EA  1 \$ 225,000.00 \$ 225,000.00  0026 Remove Storm Sewer Manhole  EA  5 \$ 600.00 \$ 3,000.00  0027 F&I Inlet - Manhole (MHI) 4' Dia Reinf Conc  EA  1 \$ 15,000.00 \$ 15,000.00  1 \$ 15,000.00  1 \$ 15,000.00  1 \$ 15,000.00  1 \$ 15,000.00  1 \$ 15,000.00  1 \$ 15,000.00  1 \$ 15,000.00  1 \$ 15,000.00  1 \$ 15,000.00  1 \$ 15,000.00	0021	F&I Manhole Type E Reinf Conc	EA	2	\$ 70,000.00	\$	140,000.00	0	\$ -	\$ -	2	\$	70,000.00	\$ 140,000.00
0024         F&I Manhole Type E Reinf Conc (ST-2)         EA         1         \$ 225,000.00         \$ 225,000.00         0         \$ -         \$ -         1         \$ 225,000.00         \$ 225,000.00           0025         F&I Manhole Type E Reinf Conc (ST-1)         EA         1         \$ 225,000.00         0         \$ -         \$ -         1         \$ 225,000.00         \$ 225,000.00           0026         Remove Storm Sewer Manhole         EA         5         \$ 600.00         \$ 3,000.00         0         \$ -         \$ -         5         \$ 600.00         \$ 3,000.00           0027         F&I Inlet - Manhole (MHI) 4' Dia Reinf Conc         EA         1         \$ 5,000.00         \$ 5,000.00         0         \$ -         \$ -         1         \$ 5,000.00         \$ 5	0022	F&I Manhole Type E Reinf Conc (ST-4)	EA	1	\$ 250,000.00	\$	250,000.00	0	\$ -	\$ -	1	\$	250,000.00	\$ 250,000.00
0025         F&I Manhole Type E Reinf Conc (ST-1)         EA         1         \$ 225,000.00         \$ 225,000.00         0         \$ -         \$ -         1         \$ 225,000.00         \$ 225,000.00           0026         Remove Storm Sewer Manhole         EA         5         \$ 600.00         \$ 3,000.00         0         \$ -         \$ -         5         \$ 600.00         \$ 3,000.00           0027         F&I Inlet - Manhole (MHI) 4' Dia Reinf Conc         EA         1         \$ 5,000.00         \$ 5,000.00         0         \$ -         \$ -         1         \$ 5,000.00         \$ 5,000.00           0028         F&I Inlet - Manhole (MHI) 6' Dia Reinf Conc         EA         1         \$ 15,000.00         \$ 15,000.00         0         \$ -         \$ -         1         \$ 15,000.00         \$ 15,000.00	0023	F&I Manhole Type E Reinf Conc (ST-3)	EA	1	\$ 225,000.00	\$	225,000.00	0	\$ -	\$ -	1	\$	225,000.00	\$ 225,000.00
0026       Remove Storm Sewer Manhole       EA       5       \$ 600.00       \$ 3,000.00       0       \$ -       \$ -       \$ -       5       \$ 600.00       \$ 3,000.00       0         0027       F&I Inlet - Manhole (MHI) 4' Dia Reinf Conc       EA       1       \$ 5,000.00       \$ 5,000.00       0       \$ -       \$ -       1       \$ 5,000.00       \$ 5,000.00       0         0028       F&I Inlet - Manhole (MHI) 6' Dia Reinf Conc       EA       1       \$ 15,000.00       \$ 15,000.00       0       \$ -       \$ -       \$ -       1       \$ 15,000.00       \$ 15,000.00	0024	F&I Manhole Type E Reinf Conc (ST-2)	EA	1	\$ 225,000.00	\$	225,000.00	0	\$ -	\$ -	1	\$	225,000.00	\$ 225,000.00
F&I Inlet - Manhole (MHI) 4' Dia Reinf Conc	0025	F&I Manhole Type E Reinf Conc (ST-1)	EA	1	\$ 225,000.00	\$	225,000.00	0	\$ -	\$ -	1	\$	225,000.00	\$ 225,000.00
Note	0026	Remove Storm Sewer Manhole	EA	5	\$ 600.00	\$	3,000.00	0	\$ -	\$ -	5	\$	600.00	\$ 3,000.00
	0027	F&I Inlet - Manhole (MHI) 4' Dia Reinf Conc	EA	1	\$ 5,000.00	\$	5,000.00	0	\$ -	\$ -	1	\$	5,000.00	\$ 5,000.00
0029 F&I Inlet - Single Box (SBI) Reinf Conc EA 1 \$ 5,000.00 \$ 5,000.00 \$ - \$ - \$ - 1 \$ 5,000.00 \$ 5,000.00	0028	F&I Inlet - Manhole (MHI) 6' Dia Reinf Conc	EA	1	\$ 15,000.00	\$	15,000.00	0	\$ -	\$ -	1	\$	15,000.00	\$ 15,000.00
	0029	F&I Inlet - Single Box (SBI) Reinf Conc	EA	1	\$ 5,000.00	\$	5,000.00	0	\$ -	\$ -	1	\$	5,000.00	\$ 5,000.00

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Change Order 9 Unit Price Schedule DATE: 1/11/2016



	WP-42A.1/A.3 - 4th Street Pump Station and Gatewell - 2nd Street Floodwall South											
ITENA	DESCRIPTION	LINIT	Cu	rrent Budget (thru	CO-06)		Net Change			New Budget		
ITEM	DESCRIPTION	UNIT	QUANTITY	UNIT PRICE	AMOUNT	QUANITY	UNIT PRICE	AMOUNT	QUANITY	UNIT PRICE	AMOUNT	
0030	F&I Inlet - Double Box (DBI) Reinf Conc	EA	1	\$ 7,000.00	\$ 7,000.00	0	\$ -	\$ -	1	\$ 7,000.00	\$ 7,000.00	
0031	F&I Inlet - Special (SPI) Reinf Conc	EA	2	\$ 2,000.00	\$ 4,000.00	0	\$ -	\$ -	2	\$ 2,000.00	\$ 4,000.00	
0032	Riprap (Outlet)	CY	410	\$ 125.00	\$ 51,250.00	0	\$ -	\$ -	410	\$ 125.00	\$ 51,250.00	
0033	Box Culvert End Section with Grate	EA	1	\$ 25,000.00	\$ 25,000.00	0	\$ -	\$ -	1	\$ 25,000.00	\$ 25,000.00	
0034	PLUG PIPE 33" DIA.	EA	1	\$ 1,500.00	\$ 1,500.00	0	\$ -	\$ -	1	\$ 1,500.00	\$ 1,500.00	
0035	PLUG PIPE 72" DIA.	EA	1	\$ 3,300.00	\$ 3,300.00	0	\$ -	\$ -	1	\$ 3,300.00	\$ 3,300.00	
0036	PLUG PIPE 78" DIA.	EA	2	\$ 4,500.00	\$ 9,000.00	0	\$ -	\$ -	2	\$ 4,500.00	\$ 9,000.00	
0037	F&I Pipe 18" Dia Reinf Conc	LF	291	\$ 95.00	\$ 27,645.00	0	\$ -	\$ -	291	\$ 95.00	\$ 27,645.00	
0038	F&I Pipe 24" Dia Reinf Conc	LF	86	\$ 120.00	\$ 10,320.00	0	\$ -	\$ -	86	\$ 120.00	\$ 10,320.00	
0039	F&I Pipe 30" Dia Reinf Conc	LF	137	\$ 220.00	\$ 30,140.00	0	\$ -	\$ -	137	\$ 220.00	\$ 30,140.00	
0040	F&I Pipe 36" Dia Reinf Conc	LF	8	\$ 250.00	\$ 2,000.00	0	\$ -	\$ -	8	\$ 250.00	\$ 2,000.00	
0041	F&I Pipe 48" Dia Reinf Conc	LF	79	\$ 300.00	\$ 23,700.00	0	\$ -	\$ -	79	\$ 300.00	\$ 23,700.00	
0042	F&I Pipe 54" Dia Reinf Conc	LF	79	\$ 800.00	\$ 63,200.00	0	\$ -	\$ -	79	\$ 800.00	\$ 63,200.00	
0043	F&I Pipe 72" Dia Reinf Conc	LF	51	\$ 900.00	\$ 45,900.00	0	\$ -	\$ -	51	\$ 900.00	\$ 45,900.00	
0044	F&I Pipe 12" Dia PVC	LF	99	\$ 120.00	\$ 11,880.00	0	\$ -	\$ -	99	\$ 120.00	\$ 11,880.00	
0045	Remove Storm Sewer Pipe All Sizes All Types	LF	2,788	\$ 85.00	\$ 236,980.00	0	\$ -	\$ -	2,788	\$ 85.00	\$ 236,980.00	
0046	30" Flapgate	EA	-	\$ 25,000.00	\$ -	0	\$ -	\$ -	-	\$ 25,000.00	\$ -	
0047	54" Flapgate	EA	1	\$ 30,000.00	\$ 30,000.00	0	\$ -	\$ -	1	\$ 30,000.00	\$ 30,000.00	
0048	F&I Pipe w/GB 30" Dia Reinf Conc	LF	240	\$ 1,100.00	\$ 264,000.00	0	\$ -	\$ -	240	\$ 1,100.00	\$ 264,000.00	
0049	F&I Pipe w/GB 36" Dia Reinf Conc	LF	88	\$ 1,200.00	\$ 105,600.00	0	\$ -	\$ -	88	\$ 1,200.00	\$ 105,600.00	
0050	F&I Pipe w/GB 54" Dia Reinf Conc	LF	19	\$ 2,000.00	\$ 38,000.00	0	\$ -	\$ -	19	\$ 2,000.00	\$ 38,000.00	
0051	F&I Box Culvert 8'x5' Wide Reinf Conc Cast in Place with depth of fill 1' to 10'	LF	495	\$ 1,500.00	\$ 742,500.00	0	\$ -	\$ -	495	\$ 1,500.00	\$ 742,500.00	
0052	F&I Box Culvert 8'x5' Wide Reinf Conc Cast in Place with depth of fill 10' to 31'	LF	128	\$ 2,800.00	\$ 358,400.00	0	\$ -	\$ -	128	\$ 2,800.00	\$ 358,400.00	
0053	F&I Box Culvert 8'x5' Wide Reinf Conc Precast	LF	186	\$ 1,300.00	\$ 241,800.00	0	\$ -	\$ -	186	\$ 1,300.00	\$ 241,800.00	
0054	Remove Pavement All Thicknesses All Types	SY	8,226	\$ 10.00	\$ 82,260.00	0	\$ -	\$ -	8,226	\$ 10.00	\$ 82,260.00	
0055	Subgrade Preparation	SY	10,496	\$ 4.50	\$ 47,232.00	0	\$ -	\$ -	10,496	\$ 4.50	\$ 47,232.00	
0056	F&I Woven Geotextile	SY	10,496	\$ 2.50	\$ 26,240.00	0	\$ -	\$ -	10,496	\$ 2.50	\$ 26,240.00	
0057	F&I Class 5 Agg - 6" Thick	SY	5,578	\$ 10.00	\$ 55,780.00	0	\$ -	\$ -	5,578	\$ 10.00	\$ 55,780.00	
0058	F&I Class 5 Agg - 7" Thick	SY	2,212	\$ 12.00	\$ 26,544.00	0	\$ -	\$ -	2,212	\$ 12.00	\$ 26,544.00	

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Change Order 9 Unit Price Schedule DATE: 1/11/2016



	WP-42A.1/A.3 - 4th Street Pump Station and Gatewell - 2nd Street Floodwall South													
ITEN A	DESCRIPTION	LIMIT	Cu	rrent Budget (thru	ı CO-	06)			Net Change			New Budg	get	
ITEM	DESCRIPTION	UNIT	QUANTITY	UNIT PRICE		AMOUNT	QUANITY		UNIT PRICE	AMOUNT	QUANITY	UNIT PRICE		AMOUNT
0059	F&I Class 5 Agg - 8" Thick	SY	733	\$ 13.00	\$	9,529.00	0	\$	-	\$ -	733	\$ 13	.00	\$ 9,529.00
0060	F&I Class 5 Agg - 12" Thick	SY	1,973	\$ 20.00	\$	39,460.00	0	\$	-	\$ -	1,973	\$ 20	.00	\$ 39,460.00
0061	F&I Crushed Conc - 6" Thick	SY	120	\$ 13.00	\$	1,560.00	0	\$	-	\$ -	120	\$ 13	.00	\$ 1,560.00
0062	F&I Curb & Gutter Standard (Type II)	LF	2,030	\$ 40.00	\$	81,200.00	0	\$	-	\$ -	2,030	\$ 40	.00	\$ 81,200.00
0063	Remove Curb & Gutter	LF	1,924	\$ 10.00	\$	19,240.00	0	\$	-	\$ -	1,924	\$ 10	.00	\$ 19,240.00
0064	F&I Pavement 6" Thick Reinf Conc	SY	3,744	\$ 66.00	\$	247,104.00	0	\$	-	\$ -	3,744	\$ 66	.00	\$ 247,104.00
0065	F&I Pavement 7" Thick Reinf Conc	SY	1,484	\$ 75.00	\$	111,300.00	0	\$	-	\$ -	1,484	\$ 75	.00	\$ 111,300.00
0066	F&I Pavement 9" Thick Doweled Conc	SY	1,519	\$ 90.00	\$	136,710.00	0	\$	-	\$ -	1,519	\$ 90	.00	\$ 136,710.00
0067	F&I Sidewalk 4" Thick Reinf Conc	SY	1,401	\$ 60.00	\$	84,060.00	0	\$	-	\$ -	1,401	\$ 60	.00	\$ 84,060.00
0068	Remove Sidewalk All Thicknesses All Types	SY	1,112	\$ 15.00	\$	16,680.00	0	\$	-	\$ -	1,112	\$ 15	.00	\$ 16,680.00
0069	Temp Construction Entrance	EA	4	\$ 1,700.00	\$	6,800.00	0	\$	-	\$ -	4	\$ 1,700	.00	\$ 6,800.00
0070	Traffic Control - Type 1	LS	1	\$ 26,000.00	\$	26,000.00	0	\$	-	\$ -	1	\$ 26,000	.00	\$ 26,000.00
0071	F&I Aggregate for Asph Pavement Class 29	TON	930	\$ 80.00	\$	74,400.00	0	\$	-	\$ -	930	\$ 80	.00	\$ 74,400.00
0072	F&I Asphalt Cement PG 58-28	GAL	13,385	\$ 4.00	\$	53,540.00	0	\$	-	\$ -	13,385	\$ 4	.00	\$ 53,540.00
0073	F&I Impressioned 4" Thick Reinf Conc	SY	72	\$ 220.00	\$	15,840.00	0	\$	-	\$ -	72	\$ 220	.00	\$ 15,840.00
0074	F&I Det Warn Panels Cast Iron	SF	109	\$ 70.00	\$	7,630.00	0	\$	-	\$ -	109	\$ 70	.00	\$ 7,630.00
0075	F&I Sign Assembly	EA	18	\$ 220.00	\$	3,960.00	0	\$	-	\$ -	18	\$ 220	.00	\$ 3,960.00
0076	Relocate Sign Assembly	EA	13	\$ 220.00	\$	2,860.00	0	\$	-	\$ -	13	\$ 220	.00	\$ 2,860.00
0077	F&I Engineering Grade	SF	23	\$ 30.00	\$	690.00	0	\$	-	\$ -	23	\$ 30	.00	\$ 690.00
0078	F&I Diamond Grade Cubed	SF	6	\$ 40.00	\$	252.00	0	\$	-	\$ -	6	\$ 40	.00	\$ 252.00
0079	F&I High Intensity Prismatic	SF	28	\$ 35.00	\$	966.00	0	\$	-	\$ -	28	\$ 35	.00	\$ 966.00
0080	F&I Flexible Delineator	EA	2	\$ 130.00	\$	260.00	0	\$	-	\$ -	2	\$ 130	.00	\$ 260.00
0081	F&I Grooved Plastic Film Message	SF	80	\$ 50.00	\$	4,000.00	0	\$	-	\$ -	80	\$ 50	.00	\$ 4,000.00
0082	F&I Grooved Plastic Film 4" Wide	LF	1,485	\$ 10.00	\$	14,850.00	0	\$	-	\$ -	1,485	\$ 10	.00	\$ 14,850.00
0083	F&I Grooved Plastic Film 24" Wide	LF	72	\$ 40.00	\$	2,880.00	0	\$	-	\$ -	72	\$ 40	.00	\$ 2,880.00
0084	Paint Epoxy Message	SF	32	\$ 20.00	\$	640.00	0	\$	-	\$ -	32	\$ 20	.00	\$ 640.00
0085	Paint Epoxy Line 4" Wide	LF	3,244	\$ 6.00	\$	19,464.00	0	\$	-	\$ -	3,244	\$ 6	.00	\$ 19,464.00
0086	Paint Epoxy Line 8" Wide	LF	234	\$ 10.00	\$	2,340.00	0	\$	-	\$ -	234	\$ 10	.00	\$ 2,340.00
0087	Paint Epoxy Line 24" Wide	LF	-	\$ 20.00	\$	-	0	\$	-	\$ -	-	\$ 20	.00	- \$ -

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Change Order 9 Unit Price Schedule DATE: 1/11/2016



	WP-42A.1/A.3 - 4th Street Pump Station and Gatewell - 2nd Street Floodwall South													
1753.4	DESCRIPTION		Cu	rrent	Budget (thru	CO-06)		Net Chang	e			ı	New Budget	
ITEM	DESCRIPTION	UNIT	QUANTITY	U	INIT PRICE	AMOUNT	QUANITY	UNIT PRICE		AMOUNT	QUANITY	U	INIT PRICE	AMOUNT
0088	Obliterate Pavement Markings	SF	182	\$	35.00	\$ 6,370.00	0	\$ -	\$	-	182	\$	35.00	\$ 6,370.00
0089	Temp Fence - Safety	LF	2,167	\$	6.00	\$ 13,002.00	0	\$ -	\$	-	2,167	\$	6.00	\$ 13,002.00
0090	Remove Fence	LF	202	\$	27.00	\$ 5,454.00	0	\$ -	\$	-	202	\$	27.00	\$ 5,454.00
0091	Temp Pumping	LS	1	\$	95,000.00	\$ 95,000.00	0	\$ -	\$	-	1	\$	95,000.00	\$ 95,000.00
0092	Clear & Grub	LS	1	\$	15,000.00	\$ 15,000.00	0	\$ -	\$	-	1	\$	15,000.00	\$ 15,000.00
0093	Remove Tree	EA	19	\$	600.00	\$ 11,400.00	0	\$ -	\$	-	19	\$	600.00	\$ 11,400.00
0094	Silt Fence - Standard	LF	784	\$	4.00	\$ 3,136.00	0	\$ -	\$	-	784	\$	4.00	\$ 3,136.00
0095	Floating Silt Fence	LF	93	\$	30.00	\$ 2,790.00	0	\$ -	\$	-	93	\$	30.00	\$ 2,790.00
0096	Sediment Control Log 6" to 8" Dia	LF	1,130	\$	3.00	\$ 3,390.00	0	\$ -	\$	-	1,130	\$	3.00	\$ 3,390.00
0097	Inlet Protection - New Inlet	EA	7	\$	300.00	\$ 2,100.00	0	\$ -	\$	-	7	\$	300.00	\$ 2,100.00
0098	Inlet Protection - Existing Inlet	EA	9	\$	200.00	\$ 1,800.00	0	\$ -	\$	-	9	\$	200.00	\$ 1,800.00
0099	Salvage Signal Standard	EA	1	\$	300.00	\$ 300.00	0	\$ -	\$	-	1	\$	300.00	\$ 300.00
0100	Lighting System	LS	1	\$	20,000.00	\$ 20,000.00	0	\$ -	\$	-	1	\$	20,000.00	\$ 20,000.00
0101	Propane Tanks Remove and Replace	LS	1	\$	20,000.00	\$ 20,000.00	0	\$ -	\$	-	1	\$	20,000.00	\$ 20,000.00
0102	Replace Unsalvagable Bollards	EA	40	\$	1,000.00	\$ 40,000.00	0	\$ -	\$	-	40	\$	1,000.00	\$ 40,000.00
0103	Revise Flashing Beacon System	LS	1	\$	15,000.00	\$ 15,000.00	0	\$ -	\$	-	1	\$	15,000.00	\$ 15,000.00
0104	Revise Traffic Control System	LS	1	\$	20,000.00	\$ 20,000.00	0	\$ -	\$	-	1	\$	20,000.00	\$ 20,000.00
0105	F&I Bus Shelter	EA	1	\$	30,000.00	\$ 30,000.00	0	\$ -	\$	-	1	\$	30,000.00	\$ 30,000.00
0106	F&I Sheet Piling - Steel	SF	168	\$	65.00	\$ 10,920.00	0	\$ -	\$	-	168	\$	65.00	\$ 10,920.00
0107	Topsoil - Strip	CY	5,870	\$	5.00	\$ 29,350.00	0	\$ -	\$	-	5,870	\$	5.00	\$ 29,350.00
0108	Topsoil - Spread	CY	2,784	\$	5.00	\$ 13,920.00	0	\$ -	\$	-	2,784	\$	5.00	\$ 13,920.00
0109	Embankment	CY	45,017	\$	13.00	\$ 585,221.00	0	\$ -	\$	-	45,017	\$	13.00	\$ 585,221.00
0110	Embankment Import	CY	8,617	\$	22.00	\$ 189,574.00	0	\$ -	\$	-	8,617	\$	22.00	\$ 189,574.00
0111	Excavation	CY	36,400	\$	9.00	\$ 327,600.00	0	\$ -	\$	-	36,400	\$	9.00	\$ 327,600.00
0112	Grading North of 2nd St S and West of 4th St S	LS	1	\$	20,000.00	\$ 20,000.00	0	\$ -	\$	-	1	\$	20,000.00	\$ 20,000.00
0113	Mulching Type 1 - Hydro	SY	16,703	\$	0.50	\$ 8,351.50	0	\$ -	\$	-	16,703	\$	0.50	\$ 8,351.50
0114	Seeding Type B	SY	16,703	\$	0.35	\$ 5,846.05	0	\$ -	\$	-	16,703	\$	0.35	\$ 5,846.05
0115	Overseeding	SY	33,405	\$	0.25	\$ 8,351.25	0	\$ -	\$	-	33,405	\$	0.25	\$ 8,351.25
0116	Weed Control Type B	SY	16,703	\$	0.15	\$ 2,505.45	0	\$ -	\$	-	16,703	\$	0.15	\$ 2,505.45

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Change Order 9 Unit Price Schedule DATE: 1/11/2016



	WP-42A.1/A.3 - 4th Street Pump Station and Gatewell - 2nd Street Floodwall South											
1750.4	DESCRIPTION		Cu	rrent Bud	dget (thru (	CO-06)		Net Change			New Budget	
ITEM	DESCRIPTION	UNIT	QUANTITY	UNIT	Γ PRICE	AMOUNT	QUANITY	UNIT PRICE	AMOUNT	QUANITY	UNIT PRICE	AMOUNT
0117	Removable Floodwall	LS	1	\$ 12	20,000.00	\$ 120,000.00	0	\$ -	\$ -	1	\$ 120,000.00	\$ 120,000.00
0118	F&I Floodwall Reinf Bars - Steel	LB	63,445	\$	1.10	\$ 69,789.50	0	\$ -	\$ -	63,445	\$ 1.10	\$ 69,789.50
0119	F&I Floodwall Reinf Bars - Epoxy Coated Steel	LB	59,852	\$	1.30	\$ 77,807.60	0	\$ -	\$ -	59,852	\$ 1.30	\$ 77,807.60
0120	F&I Floodwall - Structural Conc	CY	828	\$	1,100.00	\$ 910,800.00	0	\$ -	\$ -	828	\$ 1,100.00	\$ 910,800.00
0121	F&I Floodwall – Misc.	LS	1	\$ 22	25,000.00	\$ 225,000.00	0	\$ -	\$ -	1	\$ 225,000.00	\$ 225,000.00
0122	Demolition Pump Stations, Storm Sewers, Force Mains	LS	1	\$ 11	10,000.00	\$ 110,000.00	0	\$ -	\$ -	1	\$ 110,000.00	\$ 110,000.00
0123	Force Mains and Sump Pump Discharge	LS	1	\$ 60	00,000.00	\$ 600,000.00	0	\$ -	\$ -	1	\$ 600,000.00	\$ 600,000.00
0124	Pump Station - Structural and Architectural	LS	1	\$ 2,70	00,000.00	\$ 2,700,000.00	0	\$ -	\$ -	1	\$ 2,700,000.00	\$ 2,700,000.00
0125	Stormwater Pumps and Motors	LS	1	\$ 1,20	00,000.00	\$ 1,200,000.00	0	\$ -	\$ -	1	\$ 1,200,000.00	\$ 1,200,000.00
0126	Sump Pumps	LS	1	\$ 6	60,000.00	\$ 60,000.00	0	\$ -	\$ -	1	\$ 60,000.00	\$ 60,000.00
0127	Trash Racks and Miscellaneous Metals	LS	1	\$ 32	20,000.00	\$ 320,000.00	0	\$ -	\$ -	1	\$ 320,000.00	\$ 320,000.00
0128	Sluice Gates and Wall Thimbles	LS	1	\$ 25	50,000.00	\$ 250,000.00	0	\$ -	\$ -	1	\$ 250,000.00	\$ 250,000.00
0129	Generator Building - Structural and Architectural	LS	1	\$ 55	51,000.00	\$ 551,000.00	0	\$ -	\$ -	1	\$ 551,000.00	\$ 551,000.00
0130	Gatewell Structural	LS	1	\$ 87	70,000.00	\$ 870,000.00	0	\$ -	\$ -	1	\$ 870,000.00	\$ 870,000.00
0131	Gatewell - Miscellaneous Metals	LS	1	\$ 10	00,000.00	\$ 100,000.00	0	\$ -	\$ -	1	\$ 100,000.00	\$ 100,000.00
0132	Sheetpiling (Pump Station)	LS	1	\$ 1,20	00,000.00	\$ 1,200,000.00	0	\$ -	\$ -	1	\$ 1,200,000.00	\$ 1,200,000.00
0133	Health and Safety	LS	1	\$ 16	65,000.00	\$ 165,000.00	0	\$ -	\$ -	1	\$ 165,000.00	\$ 165,000.00
0134	Diesel Generator	LS	1	\$ 38	85,000.00	\$ 385,000.00	0	\$ -	\$ -	1	\$ 385,000.00	\$ 385,000.00
0135	Switchboard SWBDA, Motor Control Center MCLA, Automatic Transfer Switch, Panel HP1	LS	1	\$ 28	80,000.00	\$ 280,000.00	0	\$ -	\$ -	1	\$ 280,000.00	\$ 280,000.00
0136	Electrical-Interior	LS	1	\$ 10	05,000.00	\$ 105,000.00	0	\$ -	\$ -	1	\$ 105,000.00	\$ 105,000.00
0137	Electrical-Exterior	LS	1	\$ 13	38,066.65	\$ 138,066.65	0	\$ -	\$ -	1	\$ 138,066.65	\$ 138,066.65
0138	Instrumentation and Controls	LS	1	\$ 2	25,000.00	\$ 25,000.00	0	\$ -	\$ -	1	\$ 25,000.00	\$ 25,000.00
0139	Programming	LS	1	\$	4,300.00	\$ 4,300.00	0	\$ -	\$ -	1	\$ 4,300.00	\$ 4,300.00
0140	HVAC – General	LS	1	\$ 2	20,000.00	\$ 20,000.00	0	\$ -	\$ -	1	\$ 20,000.00	\$ 20,000.00
0141	Plumbing General	LS	1	\$	9,570.00	\$ 9,570.00	0	\$ -	\$ -	1	\$ 9,570.00	\$ 9,570.00
0142	Generator Accessories, Fuel Storage and Fuel System	LS	1	\$ 15	56,200.00	\$ 156,200.00	0	\$ -	\$ -	1	\$ 156,200.00	\$ 156,200.00
0143	Plug Pipe 30" Dia.	EA	1	\$	860.00	\$ 860.00	0	\$ -	\$ -	1	\$ 860.00	\$ 860.00
0144	F&I Curb & Gutter Standard (Type I)	LF	281	\$	43.00	\$ 12,083.00	0	\$ -	\$ -	281	\$ 43.00	\$ 12,083.00
0145	F&I Grooved Plastic Film 8" Wide	LF	224	\$	13.00	\$ 2,912.00	0	\$ -	\$ -	224	\$ 13.00	\$ 2,912.00

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Change Order 9 Unit Price Schedule DATE: 1/11/2016



		W	P-42A.1/A.3 - 4	th Street Pum	p Sta	ation and Gatev	vell - 2nd Stree	et F	Floodwall Sou	uth					
ITEM	DESCRIPTION	UNIT	Cui	rrent Budget (thr	u CO-0	06)			Net Change					New Budget	
112.01	D230 110.10	0	QUANTITY	UNIT PRICE		AMOUNT	QUANITY		UNIT PRICE		AMOUNT	QUANITY		UNIT PRICE	AMOUNT
0146	F&I Pipe 15" Dia Reinf Conc	LF	18	\$ 82.3	1 \$	1,481.58	0	\$	-	\$	-	18	\$	82.31	\$ 1,481.58
0147	Warming House Electrical Service	LS	1	\$ 49,834.8	9 \$	49,834.89	0	\$	; -	\$	-	1	\$	49,834.89	\$ 49,834.89
0148	Bore 36" Pipe	LS	1	\$ 80,566.2	4 \$	80,566.24	0	\$	; -	\$	-	1	\$	80,566.24	\$ 80,566.24
0149	Plug Pipe 6" Dia	EA	3	\$ 439.6	9 \$	1,319.07	0	\$	; -	\$	-	3	\$	439.69	\$ 1,319.07
0150	F&I Flared End Section 48" Dia Reinf Conc	EA	1	\$ 5,119.2	8 \$	5,119.28	0	\$	-	\$	-	1	\$	5,119.28	\$ 5,119.28
0151	Connect Water Service	EA	2	\$ 2,643.3	8 \$	5,286.76	0	\$	-	\$	-	2	\$	2,643.38	\$ 5,286.76
0152	F&I Pipe 1" Dia Copper	LF	124	\$ 49.3	5 \$	6,119.40	0	\$	-	\$	-	124	\$	49.35	\$ 6,119.40
0153	F&I Pipe w/GB C900 DR 18 - 6" Dia PVC	LF	80	\$ 193.2	0 \$	15,456.00	0	\$	-	\$	-	80	\$	193.20	\$ 15,456.00
0154	Special Order Asbestos Fittings	EA	1	\$ 5,484.5	7 \$	5,484.57	0	\$	; -	\$	-	1	\$	5,484.57	\$ 5,484.57
0155	Unknown Structures	LS	1	\$ 87,262.6	8 \$	87,262.68	0	\$	; -	\$	-	1	\$	87,262.68	\$ 87,262.68
0156	CO-01 Field Changes	LS	1	\$ 14,998.8	9 \$	14,998.89	0	\$	; -	\$	-	1	\$	14,998.89	\$ 14,998.89
0157	CO-02 Misc Requirements	LS	1	\$ 15,394.8	5 \$	15,394.85	0	\$	; -	\$	-	1	\$	15,394.85	\$ 15,394.85
0158	Fargo Highrise Work	LS	1	\$ 6,362.4	2 \$	6,362.42	0	\$	; -	\$	-	1	\$	6,362.42	\$ 6,362.42
0159	CO-04	LS	1	\$ 15,174.6	7 \$	15,174.67	0	\$	-	\$	-	1	\$	15,174.67	\$ 15,174.67
0160	Sanitary Overflow Connection	LS	1	\$ 10,363.7	1 \$	10,363.71	0	\$	-	\$	-	1	\$	10,363.71	\$ 10,363.73
0161	T&M Budget for Asbestos Pipe and Unsuitable Material Removal	LS	1	\$ 140,000.0	0 \$	140,000.00	0	\$	; -	\$	-	1	\$	140,000.00	\$ 140,000.00
0162	CO-06	LS	1	\$ 67,079.4	7 \$	67,079.47	0	\$	; -	\$	-	1	\$	67,079.47	\$ 67,079.47
0163	CO-07	LS	1	\$ 7,689.9	1 \$	7,689.91	0	\$	-	\$	-	1	\$	7,689.91	\$ 7,689.93
0164	Reprogramming Display	LS	1	\$ 1,386.0	0 \$	1,386.00	0	\$	-	\$	-	1	\$	1,386.00	\$ 1,386.00
0164	CO-09	LS	1		\$	-	0	\$	12,506.80	\$	12,506.80	1	\$	12,506.80	\$ 12,506.80
	42A.1/A.3 - TOTAL AMOUNT		CURRENT	BUDGET	\$	18,038,757.39	NET CI	HAI	NGE	\$	12,506.80	NEW B	UDG	ET	\$ 18,051,264.19

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P.O. Box 13158 • Grand Forks, ND 58208-3158 (P) 701.775.8480 (F) 701.775.8479 www.icsgf.com

01/03/17

CH2M Attn: Tyler Smith 64 4<sup>th</sup> St. N. Fargo, ND 58102

Re:

In-Town Levees 2<sup>nd</sup> Street/Downtown Area-Phase 42A.1/42A.3 Work Package 42A.1/42A.3

**Adding Fuel Tank Sensors** 

Mr. Smith,

The attached costs are to add level sensors to the fuel storage tank. The added sensors will monitor the 25%, 50% and 75% fuel levels in the fuel tank.

DESCRIPTION	U.M.	UNITS	UNIT PRICE	EXT. PRICE
Fuel Tank Sensors	LS	1.00	\$1,906.80	\$1,906.80
			TOTAL PRICE:	\$1,906.80

The level sensors will be added per the attached quote from Fusion Automation OPTION A. The proposed sensor information is also attached to this quote.

If you have any questions regarding the above, please contact me at your earliest convenience. Sincerely,

Gary Beeter ICS, Inc.

Vice President

Cc: Peter Chitwood/CH2M



#### CHANGE ORDER PROPOSAL # E20

DATE: NOVEMBER 30TH, 2016

PROJECT: FARGO 4TH STREET PUMP HOUSE FLOOD RISK MANAGEMENT

SUMMARY: ADDITIONAL TANK READING LEVELS

Additional sensor to monitor 25%, 50% and 75% fuel levels in fuel tank like 2<sup>nd</sup> street.

**OPTION A:** HTF 3 float stem sensor

- Only measures 3 set levels
- Electronic feedback
- Labor for Install

TOTAL \$1,816.00

**OPTION B:** Deep Product Level Gauge

- Direct Reading Gauge
- High Density Polyethylene Plastic Float
- Measures fuel level from 0% to 100% full
- No PLC control: No electronic feedback

TOTAL \$109.00

**OPTION C:** Clock Gauge w/Alarm

- Direct Reading Gauge
- Alarm System
- Uses floats
- No PLC control; No electronic feedback
- Labor for Install

TOTAL \$1,980.80

**OPTION D:** Continuous Level Sensor

- Uses float
- Measures fuel level from 0% to 100% full
- Electronic Feedback
- Explosion Proof Rated
- Labor for Install

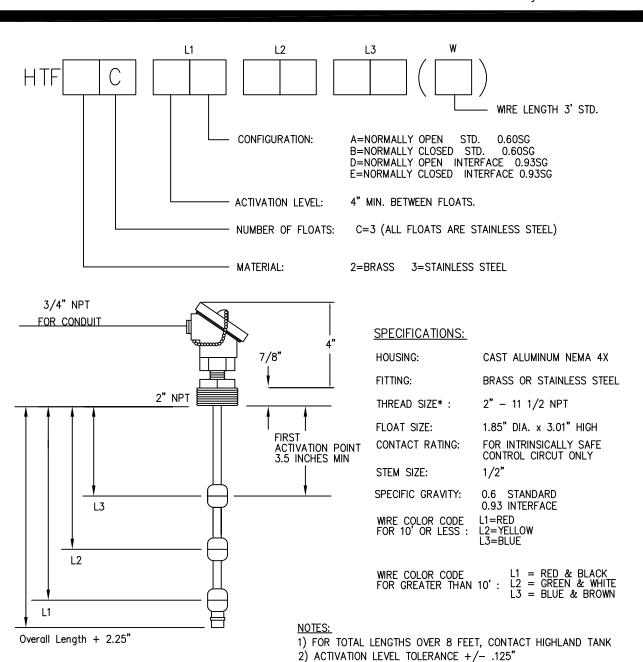
TOTAL \$2,739.22

Anne Mayer
Fusion Automation Inc
701-757-0852
Anne.Mayer@fusionautomationinc.com

## **Series HTF Standard Three Float Sensor**



One Highland Road, Stoystown Pa.15563 814—893—5701 — Fax 893—6126 www.Highlandtank.com email: staff @ highlandtank.com



3) CONSULT FACTORY FOR OPTIONAL MOUNTING OPTIONS



#### **Direct Reading Gauge—Type D**



Part Number— D-(size opening)-(tank depth)+(ext)-(list options) Sample—D-2-48+12

#### What it is:

Top mounted liquid level gauge that can measure from 6 inches to 144 inches in depth. Bushing size can be 2", 1.5", or .75". Gauges are custom made in house to fit your tank. Can also accommodate for double walls and pipe risers.

#### **Additional Options - Not included:**

Audible Alarm Accessory: This add on feature can turn your mechanical gauge into an audible Hi or Lo level alarm.

LED At-A-Glance Accessory: Another add on feature. This can give your mechanical gauge remote reading capability.

Gauge Guard: A cover that protects the exposed plastic components on top of the gauge.

#### **Replacement Parts -**

**D-Kit** - Replaces all of the gauge components from the red lock nut and up. Includes: Red HDPE Plastic Nut, Duro Nitrile Gasket, Plastic Cellulose acetate inner and outer calibration.

**DG-Kit-ALN** - Replaces all of the gauge components from the red lock nut and up with upgraded parts. Includes: Aluminum Lock Nut, Duro Nitrile Gasket, Plastic Cellulose acetate outer calibration, Glass inner calibration.

#### **Instructions for Operation:**

This gauge is a simple volume reading tool. The top of the red indicator is an indication of your approximate fuel level in your tank. Once installed, you simply view the calibration to monitor your tank level. Indicator is calibrated in eighths of a tank on one side, and quarters of a tank on the other.

Krueger Sentry Gauge 1873 Siesta Lane Green Bay, WI 54313

www.ksentry.com



Contact us for more info: Ph: 920-434-8860 Fax: 920-434-8897

Email: info@ksentry.com



#### Model 918 Clock Gauge and Alarm Series

SPECIFICATION SHEET

The Morrison "clock gauge" displays the liquid level of product stored in an aboveground storage tank. Measures the liquid level in tanks up to 12 feet high. The 918 audible alarm sounds when the liquid level in the tank reaches the user's specified level.

#### **Gauge features**

- Easy to install in a single 2" tank top opening, easy to calibrate
- Gauge face displays level reading in feet and inches. The hour hand (short hand) displays the number of feet and the minute hand (long hand) accurately displays the number of inches
- Gallon or liter reading gauge models available
- Accurate to ½ of an inch
- Easily read from 30 feet away
- Vapor tight construction and fog free design
- Gauge rotates 360° making it easy for the face to be read from the desired orientation
- Visual indicators for high level (red) and low level (green)
- Floats fit through a 2" schedule 40 pipe nipple
- Drop tube float compatible with Morrison 419 2" drop tube; reduces float entanglement when turbulent conditions are present
- 918T and 918FT series are compatible for use with Diesel Exhaust Fluid (DEF)

The 918 alarm box can be paired with a variety of Morrison 918 clock gauges or level sensors. Alarm set point calibrated at installation. The alarm box is compliant with UL 913 and CSA 157 intrinsic safety standards.

#### Alarm features

- · Audible and visual indicators
- Self-powered by long-life replaceable lithium batteries
- Monitor up to four sensor signals
- User-defined alarm labels
- · Visual alarm indicators easily identify which sensor is alarming
- Compatible with 918/918 TCP gauging equipment
- Low battery visual indicator
- Audible alarm sounds 90 dB alarm at four feet away
- Modular contacts make alarm devices easy to install
- In compliance with UL 913 and CSA 157 intrinsic safety standards
- Corrosion-resistant and water-resistant housing for long life
- Intrinsically safe for Class I, Division 1 and 2, Group D hazardous location







#### Option C

#### Alarm features (continued)

- Audible alarm auto silence mode (10 minutes)
- 918/918F clock gauge with 918S, 918D, or 918Q alarms are Florida DEP EQ527 approved



	I.D. Number	Α	В	С	D	E	F	G	Н
	9180000 AG	N	М	ST	S	8.42	3.48	6.06	6.25
EVR	9180000AGEVR	N	М	ST	S	8.42	3.48	6.06	6.25
	9182000 AG	N	М	DT	S	8.42	3.48	6.06	6.25
EVR	9182000AGEVR	N	М	DT	S	8.42	3.48	6.06	6.25
	918C0000 AG	N	М	ST	С		3.48	6.06	6.25
	918C2000 AG	N	М	DT	С		3.48	6.06	6.25
	918CF-0000 AG	N	F	ST	С		3.48	6.06	6.25
	918CF-2000 AG	N	F	DT	С		3.48	6.06	6.25
	9180100 AG	Υ	М	ST	S	8.42	3.48	6.06	7.45
	9180400 AG	Υ	М	DT	S	8.42	3.48	6.06	7.45
	918C0100 AG	Υ	М	ST	С		3.48	6.06	6.25
	918C0100 AG	Υ	М	DT	С		3.48	6.06	6.25
	918CF-0400 AG	Υ	F	ST	С		3.48	6.06	6.25
	918CF-0400 AG	Υ	F	DT	С		3.48	6.06	6.25
	918F0100 AG	Υ	F	ST	S	9.62	3.48	6.06	7.95
	918F0400 AG	Υ	F	DT	S	9.62	3.48	6.06	7.95
EVR	918F0000AGEVR	N	F	ST	S	9.62	3.48	6.06	6.25
EVR	918F2000AGEVR	N	F	DT	S	9.62	3.48	6.06	6.25
EVIX	918MEB0100 AG	Υ	МВ	ST	М	8.42	3.48	6.06	7.45
	918MEB0400 AG	Υ	МВ	DT	М	8.42	3.48	6.06	7.45
EVR	918MEF0000AGEVR	N	F	ST	М	8.42	3.48	6.06	7.95
EVR	918MEF2000AGEVR	N	F	DT	М	8.42	3.48	6.06	6.25
⊏VIK	918MEF0100 AG	Υ	F	ST	М	9.62	3.48	6.06	7.95
1.0	918MEF0400 AG	Υ	F	DT	М	9.62	3.48	6.06	7.95
EVR	918MET0000AGEVR	N	М	ST	М	8.42	3.48	6.06	6.25
EVR	918MET2000AGEVR	N	М	DT	М	8.42	3.48	6.06	6.25

I.D. Number	A	В	С	D	E	F	G	Н
918MET0100 AG	Υ	М	ST	М	8.42	3.48	6.06	7.45
918MET0400 AG	Υ	М	DT	М	8.42	3.48	6.06	7.45
918T0400 AG	Υ	М	DT	S	8.42	3.48	6.06	7.45
918T2000 AG	N	М	DT	S	8.42	3.48	6.06	7.45
918FT-0400 AG	Υ	F	DT	S	9.62	3.48	6.06	7.95
918FT-2000 AG	N	F	DT	S	9.62	3.48	6.06	7.95
918MEFT400 AG	Υ	F	DT	М	9.62	3.48	6.06	7.95
918METT400 AG	Υ	М	DT	М	8.42	3.48	6.06	7.45
918S1000 AA	Υ	Single	channel	tank ala	rm box o	only		1.80
918D1000 AA Y Dual channel tank alarm box only							1.80	
918Q1000 AA	Quad c	d channel tank alarm box only						
918MEFT400 AG 918METT400 AG 918S1000 AA 918D1000 AA	Y	F M Single	DT DT channel	M M tank ala	9.62 8.42 rm box on	3.48 3.48 only	6.06	7.9

#### **SPECIFICATION OPTIONS:**

A-Overfill Alarm Box: Included: Yes/No

B—Body Connection: Male (M), Female (F), BSP (B)

C—Float Device: Standard 2" Float (ST), Drop Tube Float (DT)

D—Face Plate: Standard (S), Metric (M), Custom (C)

E—Gauge height: (Inches)

F—Gauge width: (Inches)

**G**—Clock Diameter: (Inches)

H—Shipping Weight (lbs.)

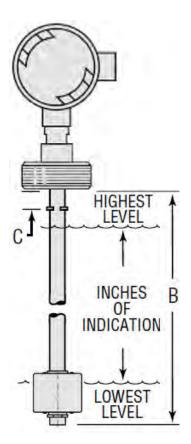


> 570 E. 7th Street, P.O. Box 238 | Dubuque, IA 52004-0238 t. 563.583.5701 | 800.553.4840 | f. 563.583.5028

#### Option D



#### CONTINUOUS LEVEL



Technical Specifications									
XT-800									
.82									
30									
Up to 72"									
Tubing (for units < 72")									
80									
316 Stainless Steel									
(3) 2" NPT									
Junction Box									
4 - 20mA									
316 Stainless Steel									
316 Stainless Steel (156490)									
Diesel									
Grip Rings									
FM Approved Explosion Proof									

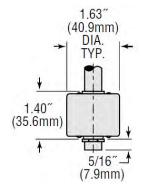
# Ordering Information Part Number: List Price: Lead Time: Min. Order Quantity: Shipping Weight: Model Description:

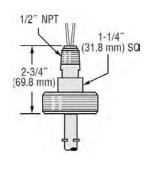
#### **Dimensional Specifications**

Indicating Length: 56.5"

C Dimension: 1.25"

Overall Length(B Dimension): 61







#### Small Size - Alloys

#### XM/XT-800 Series - Compact Analog Sensors

- Stainless or Brass Construction
- ▶ 1/4" Resolution
- Lengths to 144 inches (366 cm)
- OEM Configurations Available

These compact transmitters feature the rugged durability of stainless steel or brass construction. The XM-800 series provides analog output, and can be combined with GEMS Digital Meter Receiver Stations and compact Level Cubes described in this catalog. Our versatile XT-800 Series adds a choice of signal conditioning for use with GEMS digital bargraph receivers or other digital display and control equipment.

#### Approvals

XM-800 and XT-800 Series transmitters may carry the following commercial approvals:

FM Approved, Explosion-Proof (J-Box and Stainless Steel Float required).

**SI** UL-Recognized.

XM-800 Series transmitters only:

CSA Certified

XT-800 Series transmitters only:

FM Approved, Intrinsic Safety (J-Box and Stainless Steel Float required).

#### 1. Mounting Types

	Type 1 1/2" NPT	Type 2 1-1/4" NPT	Type 3 2" NPT	Type 4 3" 150# Flange	Type 6 2-1/2" Sanitary Flange				
	3/4" FLATS (19.0 mm)	1"SQ. (25.4 mm) 2-1/2" (63.5 mm) 1-1/4" NPT	1/2" NPT (31.8 mm) SQ (2-3/4" (69.8 mm)	1/2" NPT (57.2 mm)	2-1/2" J SANITARY FLANGE (38.1 mm)				
Stem Material	Brass or 316 Stainless Steel 316 Stainless Steel								
Mounting Material	Br	ass or 316 Stainless St	eel	Carbon Steel or 316 Stainless Steel	316 Stainless Steel				
Float Stop Material	Brass Ur	nits: Beryllium Copper G	rip Rings; Stainless Ste	el Units: S.S. ARMCO PH-15-7MO G	rip Rings				
Operating Temperature* With J. Box Mounted or XM Signal Conditioners	Oil: -40°F to +230°F (-40°C to 110°C), Water to +180°F (82.2°C)—Buna N Float -40°F to +230°F (-40°C to 110°C)—Stainless Steel Float								
With Stem Mounted Signal Conditioners	+5°F to +160°F (-15°C to +70°C)								
Operating Pressure		D	ependent on Float Type;	See Next Page					
Overall Length, Max.		72"(183 cm	) Tubing; 144" (366 cm	) Pipe (Types 3 & 4 only)					

<sup>\*</sup> Consult factory for higher temperature ranges.



ORDERITI



#### 2. Float Types

Based on the overall length required by your tank, select from two main subsets of floats below; further refine selection based on material and performance parameters.

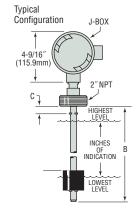
		For Overall L	engths To 72"		For Lengths Greater	Than 72" (144" Max.)
Float Material	31.8mm) DIA.  1-5/16" (33.3mm)  1-5/16" (33.3mm)		Stainle	ss Steel	Buna N	Stainless Steel
Float Dimensions	(31.8mm) DIA. TYP.	(47.6 mm) DIA. TYP.	1.63" (40.9mm) DIA. TYP. 1.40" (35.6mm) 5/16" - 3 (7.9mm)	2-1/16" (52.4 mm) DIA TYP. 2-3/4" (69.8 mm) TYP. 5/16" (8 mm)	1.86" (47.2mm) DIA. TYP. 1.81" (46mm) 1/2" 1 (12.7mm)	2.04" (51.7mm) DIA. TYP. 2.68" (68mm) 1/2"
Compatible Mountings	1, 2, 3, 4, 6	1, 3, 4	1, 3, 4, 6	1, 3, 4	3, 4	3, 4
Part Number	164255²	43359	156490	43590	69654	52084
Min. Liquid Spec. Gravity	.55	.55	.70	.75	.55	.75
Operating Pressure, Max.1	150 psi (10 bar)	150 psi (10 bar)	80 psi (6 bar)	300 psi (21 bar)	150 psi (10 bar)	300 psi (21 bar)
Operating Temp., Max.	Water: 180°F (82°C) Oil: 230°F (110°C)		230°F (	110°C) <sup>3</sup>	Water: 180°F (82°C) Oil: 230°F (110°C)	230°F (110°C)*

Option D

#### Notes:

- 1. @ Ambient Temperature
- Recommended for Type 2 mounting only.
- Consult factory for higher temperature range

#### 3. To Determine Dimensions



- B: Overall Length = Inches of Indication + C + X (See Table at Right)
- C: Distance From Bottom of Mounting to Float Stop (Customer Specified):
  - 1/4" (6.4mm) Minimum
  - 1-1/4" (31.8mm) Minimum on Type 1, XT Series only.

#### **Calculating Length**

To find Overall Length when Inches or Indication is known:

• Inches of Indication + C\* + X = Overall Length

To find Maximum Inches of Indication when Overall Length is known:

- Overall Length C\* X = Maximum Inches of Indication
- \*C dimension is determined by customer.

Float	Factor –	X
-------	----------	---

Float Part Number	х
164255	2.0" (50.8)
43359	2.5" (63.5)
156490	2.062" (52.4)
43590	3.437" (87.3)
69654	2.687" (68.3)
52084	3.625" (92.1)

Inch (mm)

#### 4. Input/Output

For XM-800 Series, no special output designation is necessary. For XT-800 Series, specify the desired signal conditioning by Part Number.

Additional information about GEMS signal conditioning modules is found on Page C-16.

Series Input Voltage	Output Signal	Part Number	Electrical Termination	Compatible Mountings			
361162	iliput voltage	Output Signal	rait Nullibei	Liebtiibai ieiiiililatioii	Type 1	Type 3	Type 4
XM-800	10 to 30 VDC	Proportional Voltage	_	Lead Wires (3), #22 AWG, 24" (60.9 cm), PTFE Jacket	•	•	•
	8 to 24 VDC*	0-5 VDC	51965	Lead Wires,	•	•	•
	14 to 30 VDC*	0-12 VDC	51970	#22 AWG, 24" (60.9 cm), PTFE Jacket	•	•	•
VT 000	8 to 24 VDC*	0-5 VDC	52536			•	•
XT-800	15 to 30 VDC*	0-12 VDC	52537	Junction Box		•	•
	10 to 40 VDC	4-20 mA	52555			•	•
	10 to 40 VDC	4-20 mA	112300	Panel Mount with Plug-in Base	•	•	•

<sup>\*</sup> Stem mounted.

#### Option D

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	Product	Chack	Lict
	TIOUUCL	CHECK	பர



#### Photocopy This Form

Use one form for each product type you are selecting.

This form may also be completed online at gemssensors.com for RFO.

This is a ☐ Request for a Quote	Name
☐ Order P.O.#	Company
Quantity Needed	Street
Date Required/	City State Zip
Shipping Method:	Phone ( )
Partials Accepted: ☐ Yes ☐ No	Fax ( )

#### Float Type Level Transmitters – XM/XT-800 Series

#### **Application Environmental Conditions**

This	inform	ation is	essent	ial to t	he ac	curate	and	proper	oper	ation o	of
vour	GEMS	configu	ırable s	sensor	s. Ple	ase co	mple	te fullv	and	accura	itelv.

- 1. Liquid Media: 2. Pressure: Minimum \_\_\_\_\_\_ psig Maximum \_\_\_\_\_ psig
- 4. Specific Gravity: Minimum \_\_\_\_\_ Maximum \_\_\_\_\_

#### 1. Series:

☐ XM/XT-800 (1/4" Resolution)

#### 3. Materials:

- a. Stem:
  - ☐ Brass<sup>1</sup> ☐ 316 Stainless Steel
- b. Mounting:
  - ☐ 316 Stainless Steel ☐ Brass<sup>1</sup>
- ☐ Carbon Steel (Type 4 flange only)
- c. Collar Float Stops2:
  - ☐ Brass □ 316 Stainless Steel

#### Notes:

- 1. Type 1, Type 2 and Type 3 only
- Standard Float Stops supplied in PH 15-7 MO on S.S. units and Beryllium Copper on Brass units. Brass and S.S. Float Stops with Brass and S.S. units only, respectively.

- 5. Viscosity: \_\_\_\_\_ SSU
- 6. Tank Material: Tank Depth:
- **7. Unit is Mounted In:** □ Tank Top □ Tank Bottom
- 8. Moisture Protection Required? ☐ Yes ☐ No
- 2. Mounting Type:
- $\square$  Type 1 (1/2" NPT)  $\square$  Type 2 (1-1/4" NPT)  $\square$  Type 3 (2" NPT)  $\square$  Type 4 (3"150# flange)  $\square$  Type 6 (2-1/2" sanitary flange)

#### 4. Float Type<sup>1</sup>:

Match to Overall Length of Transmitter Stem

To 72 Inches	Over 72 Inches
☐ 164255 – Buna N <sup>2</sup>	☐ 69654 – Buna N
☐ 43359 – Buna N	□ 52084 – Stainless Steel
□ 156490 – Stainless Steel	
☐ 43590 – Stainless Steel	
Matan	

- 1. Stainless Steel float required for FM Approved Explosion Proof units.
- 2. Recommended for Type 2 mounting.

#### 5. Dimensions:

Overall Length (complete one line only):

Float Selected	Indicating Length (Half Inches)	+	"C" Dimension ±1/16" (1.8 mm)	+	Float Factor X Inch (mm)	=	Overall Length
43359		+		+	2.5 (63.5)	=	
43590		+		+	3.44 (87.3)	=	
52084		+		+	3.63 (92.1)	=	
69654		+		+	2.69 (68.3)	=	
156490		+		+	2.06 (52.3)	=	
164255		+		+	2 (50.8)	=	

- 1. Indicating Length: 1/2" increments
- 2. Minimum C Dimension = 1/4"; or 1/2" on units greater than 72" in length.

#### 7. Options:

- ☐ Explosion Proof J-Box\* ☐ NEMA 4 J-Box
- \* Required for FM Approved Explosion Proof units

Please contact Gems for any configuration or special requirements not covered on this form. 800-378-1600

Date Quoted: / /

#### 6. Input/Output:

- a. Optional 24 VDC Power Supply:
  - □ 115 VAC input □ 230 VAC input
- b. Signal Conditioners (XT-800 Series Only) Output Shown in Parenthesis:
  - □ 51965 (0-5 VDC stem)
  - □ 51970 (0-12 VDC stem)
  - □ 52536 (0-5 VDC J-box)

  - □ 52537 (0-12 VDC J-box)
  - $\Box$  52555 (4-20 mA J-box)
  - ☐ 120650 (0-5 VDC panel mount)
  - ☐ 149600 (0-10 VDC panel mount)
  - ☐ 112300 (4-20 mA panel mount)



**Gems Sensors & Controls** 

One Cowles Road Plainville, CT 06062-1198

tel 860.747.3000 860.747.4244 fax www.gemssensors.com



P.O. Box 13158 • Grand Forks, ND 58208-3158 (P) 701.775.8480 (F) 701.775.8479 www.icsgf.com

01/03/16

CH2M Attn: Tyler Smith 64 4<sup>th</sup> St. N. Fargo, ND 58102

Re:

In-Town Levees 2<sup>nd</sup> Street/Downtown Area-Phase 42A.1/42A.3 Work Package 42A.1/42A.3 Floodwall Coping Caps

Mr. Smith,

The attached cost is for a design change to the floodwall coping for the south end of the floodwall. The request for pricing the change was from HMG.

DESCRIPTION	U.M.	UNITS	UNIT PRICE	EXT. PRICE
Material	LS	1.00	\$4,205.00	\$4,205.00
			TOTAL PRICE:	\$4,205.00

The City of Fargo has been adding a higher pitched floodwall coping to detour climbing on the floodwalls. The price is to all the taller wall caps to the wall south of the closure on 2<sup>nd</sup> street only. This project did not call for that design originally. The pricing above is to procure the new coping, offload onsite, and remove the original coping from site.

If you have any questions regarding the above, please contact me at your earliest convenience. Sincerely,

Gary Beeter ICS, Inc.

Vice President

Cc: Peter Chitwood/CH2M



P.O. Box 13158 • Grand Forks, ND 58208-3158 (P) 701.775.8480 (F) 701.775.8479 www.icsgf.com

01/05/17

CH2M Attn: Tyler Smith 64 4<sup>th</sup> St. N. Fargo, ND 58102

Re:

In-Town Levees 2<sup>nd</sup> Street/Downtown Area-Phase 42A.1/42A.3 Work Package 42A.1/42A.3

Trash Rack Mods

Mr. Smith,

The attached cost is for a design change to the Trash Rack Rake System in the pump station. Glen Krogman with HMG requested the change so that the trash racks would operate smoother.

DESCRIPTION	U.M.	UNITS	UNIT PRICE	<b>EXT. PRICE</b>
Material	LS	1.00	\$1269.00	\$1269.00
Labor	LS	1.00	\$5124.00	\$5124.00
			TOTAL PRICE:	\$6393.00

The trash rack rake modifications were requested by HMG to improve functionality. Glen Krogman with HMG provided a sketch dated 12-07-16 showing the changes and is the basis for our pricing. It is our understanding that the design was based on a prototype that operated in the field. This price includes materials, labor for installation, as well as labor to help Glen in the field with fitting his prototypes.

If you have any questions regarding the above, please contact me at your earliest convenience. Sincerely,

Eric Bye ICS, Inc.

Project Manager

Cc: Peter Chitwood/CH2M

**FD3** 

Project: 42 A 1 42 A 3

Subject: 4 th St Pump Stq Checked: Date:

Task: Trash Rack Adjustment Page: of:

No:

F20

