

**FLOOD DIVERSION BOARD OF AUTHORITY  
MARCH 31, 2016—3:30 PM**

**1. MEETING TO ORDER**

A meeting of the Flood Diversion Board of Authority was held Thursday, March 31, 2016, at 3:30 PM in the Fargo City Commission Room with the following members present: Cass County Commission representative Darrell Vanyo via conference call; Cass County Commissioner Mary Scherling; West Fargo City Commissioner Mike Thorstad; Fargo City Mayor Tim Mahoney; Fargo City Commissioner Mike Williams; Fargo City Commissioner Melissa Sobolik; Cass County Joint Water Resource District Manager Rodger Olson; Clay County Commissioner Kevin Campbell; and Moorhead City Council Member Nancy Otto. Also present was ex-officio member Breanna Paradeis-Kobiela, Buffalo-Red River Watershed District.

Staff members and others present: Cass County Administrator Keith Berndt; Fargo City Administrator Bruce Grubb; Moorhead City Manager Mike Redlinger; Clay County Administrator Brian Berg; Cass County Engineer Jason Benson; Fargo City Director of Engineering Mark Bittner; Fargo City Engineer April Walker; Moorhead City Engineer Bob Zimmerman; Mark Nisbet, Chamber of Commerce Business Leaders Task Force; Martin Nicholson, CH2M; Bruce Spiller, CH2M; Terry Williams, Project Manager, Corps of Engineers.

**2. MINUTES APPROVED**

*MOTION, passed*

**Mrs. Scherling moved and Mr. Campbell seconded to approve the minutes from the March 10, 2016, meeting as presented. Motion carried.**

**3. AGENDA ORDER**

*MOTION, passed*

**Mrs. Scherling moved and Mr. Olson seconded to approve the order of the agenda. Motion carried.**

**4. 2016 PROJECT COST ESTIMATE**

Mr. Nicholson said from 2012 to 2016 the project cost estimate increased by \$350 million. The increase is attributed to cost escalation, and changes in construction scope, land costs and soft costs.

Mr. Vanyo said the presentation provides answers regarding the total project cost estimate compared to four years ago, and the reasons for the increase. The information provided today serves as a new starting point for a financial analysis to begin.

Ms. Sobolik asked about the next step with Ernst & Young Infrastructure Advisors. Mr. Nicholson said they will provide a financial plan using the estimate along with revenue sources to determine long-term affordability for the project. He anticipates the analysis will be completed within the next month.

Mr. Williams said the updated cost estimate is in line with the 3% cost of living adjustment experienced over the last four years. He emphasized the need for permanent flood protection provided by the project and said this information provides a baseline to use.

Ms. Otto said property values have increased in the metro area over the last four years and suggested those figures also be updated to determine the total property value that will be protected by the project.

*MOTION, passed*

**Ms. Sobolik moved and Ms. Otto seconded to receive and file the 2016 cost estimate update. On roll call vote, the motion carried unanimously.**

**5. NEXT MEETING DATE**

The next meeting will be held on Thursday, April 14, 2016, at 3:30 PM.

**6. ADJOURNMENT**

***MOTION, passed***

**On motion by Mr. Williams, seconded by Ms. Sobolik, and all voting in favor,  
the meeting was adjourned at 3:50 PM.**

Minutes prepared by Heather Worden, Cass County Administrative Assistant



# Recommended Contracting Actions Summary

Date: April 14, 2016

Description	Company	Budget Estimate (\$)
<b>Task Order Amendments</b>		
<b>Task Order No. 1, Amendment 3</b> Material Testing And Abatement Monitoring <ul style="list-style-type: none"> <li>Adds asbestos abatement monitoring for WP-42A1.A3 and WP-43E.2C. Adds asbestos survey and sampling services for WP-42C.1, WP-42C.2, WP-42H.2, WP-42I.1, WP-42A1.A3, and WP-43E.2C.</li> <li>Adds requirements for monthly invoicing and status reporting.</li> </ul>	Terracon	82,500.00
<b>Change Orders</b>		
<b>WP-42A.2 Change Order 6</b> 2nd Street North Pump Station <ul style="list-style-type: none"> <li>Completion Milestone Changes, Extended Warranty Duration, Modifications to Trash Rack and Rake, and Check Valve Replacement.</li> </ul>	IBI	43,488.99
<b>WP-42C.2 Change Order 1</b> 2nd Street/Downtown – In-Town Levees, Demolition <ul style="list-style-type: none"> <li>Administrative schedule delays, removal and cleanup of unknown asbestos containing fire doors, Xcel transformer blow out, spring pavement removal, Xcel Energy and City of Fargo utility expenses, unknown water service disconnect, and unknown asbestos abatement.</li> </ul>	Landwehr Construction	87,263.59
<b>WP-42F.1S Change Order 5</b> 2nd Street North (South of Pump Station) <ul style="list-style-type: none"> <li>Concrete grading within pump station, unit price change, additional H Pile, bridge abutment seal, traffic signals, and bridge abutment concrete disposal, floodwall connections.</li> </ul>	IBI	68,743.01
<b>Construction Contract Awards</b>		
<b>Recommendation to Award - WP-42F.1N</b> Flood Control, 2nd St N, (North of Pump Station)	TBD	TBD

**Technical Staff Recommendation**

Meeting Date: 4/6/2016

**RECOMMENDATION FOR ACTION:**

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

**SUMMARY OF CONTRACTING ACTION:**

The Owner’s Representative prepared the following Contract Action(s) for the Technical Staff team:

List description of Contract Action(s):

**Terracon Consultants, Inc.**

*Task Order 1, Amendment 3*

**\$82,500**

- Adds asbestos abatement monitoring for WP-42A1.A3 and WP-43E.2C. Adds asbestos survey and sampling services for WP-42C.1, WP-42C.2, WP-42H.2, WP-42I.1, WP-42A1.A3, and WP-43E.2C.
- Adds requirements for monthly invoicing and status reporting.

**BACKGROUND:**

Terracon Consultants, Inc. (Terracon) has provided On-Call materials testing services to the Metro Flood Diversion Authority under Task Order 1 from September 12, 2014, to the present time. All services to date have been performed within the WP-42 group of projects. See the table below for a summary of the amendments to the Task Order.

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

Original Agreement or Amendment	Budget (\$) Change	Original Project Cost	Revised Project Cost	Project Start	Project Completion	Comments
Task Order 1 Amendment 0	\$ -	\$50,000	\$ -	12-Sep-14	31-Dec-16	Initial authorization of subtask A., for materials testing services for WP-42 (excluding WP-42H).
Task Order 1 Amendment 1	\$400,000	\$ -	\$450,000	12-Sep-14	31-Dec-16	Added material testing services specifically for WP-42A.2; WP-42A2.A3, WP-42F.1S, WP-42F.1N, WP-42H.2, WP-42I.1, WP-42C.1, and WP-42C.2. Services specified as density testing, concrete testing, compression tests, moisture-density testing, pre-placement inspections, and reinforcement inspections.
Task Order 1 Amendment 2	\$75,000	\$ -	\$ 525,000	12-Sep-14	31-Dec-16	Added asbestos abatement monitoring services for WP-42C.1, WP-42C.2, WP-42H.2, and WP-42I.1.
Task Order 1 Amendment 3	\$82,500	-	\$607,500	12-Sep-14	31-Dec-16	Adds asbestos abatement monitoring for WP-42A1.A3 and WP-43E.2C. Adds asbestos survey and sampling services for WP-42C.1, WP-42C.2, WP-42H.2, WP-42I.1, WP-42A1.A3, and WP-43E.2C. Adds requirements for monthly invoicing and status reporting.



**DISCUSSION:**

Amendment 3 to Task Order 1 provides for the following scope and budget revisions:

WP-42C.1

Adds asbestos survey and sampling services. Work duration increased from 2 weeks to 6 weeks; includes previous work already completed and additional work to include non-destructive sampling. Additional budget estimate: \$33,600.

WP-42C.2

Adds asbestos survey and sampling services. Work duration increased from 9 weeks to 10 weeks, and involved additional foundation waterproofing removal work. Additional budget estimate: \$17,500.

WP-42H.2

Adds asbestos survey and sampling services. Additional budget estimate: \$10,500.

WP-42I.1

Adds asbestos survey and sampling services. Additional budget estimate: \$6,300.

WP-42A1.A3

Adds asbestos abatement monitoring services for demolition of existing pump stations, and asbestos survey and sampling services. Additional budget estimate: \$4,100.

WP-43E.2C

Adds asbestos abatement monitoring services, and asbestos survey and sampling services. Additional budget needed: \$3,000.

The budget estimate to fund additional known work is \$75,000; an additional 10% (\$7,500) has been added to the budget estimate as an allowance for miscellaneous incidental work that may arise. Additional work requires written authorization.

Amendment 3 also adds requirements for monthly invoicing and status reporting, to improve the tracking and documentation of work progress.

**TO1 Budgets by Subtask:**

Subtask	Activity ID	Current Budget (\$)	Amendment 3 (\$)	Total (\$)
A. On-Call Services	CN-XXXX-WP-42SDC	525,000	82,500	607,500
<b>TOTAL</b>		<b>525,000</b>	<b>82,500</b>	<b>607,500</b>

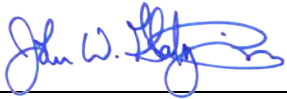
The PMC reviewed HMG’s revised cost proposals and found it to be acceptable.

This change amount of \$82,500 is included in the FY-2016 FMDA budget.

**ATTACHMENT(S):**

1. Draft Task Order 1, Amendment 3

**Presented by:**



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John Glatzmaier, P.E.  
CH2M HILL  
Project Manager  
Metro Flood Diversion Project

April 6, 2016

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Date

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Keith Berndt, Cass County Administrator

Concur: April 7, 2016 Non-Concur: \_\_\_\_\_

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April Walker, Fargo City Engineer

Concur: April 7, 2016 Non-Concur \_\_\_\_\_

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Mark Bittner, Fargo Director of Engineering

Concur: April 6, 2016 Non-Concur: \_\_\_\_\_

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Jason Benson, Cass County Engineer

Concur: April 6, 2016 Non-Concur \_\_\_\_\_

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David Overbo, Clay County Engineer

Concur: April 6, 2016 Non-Concur: \_\_\_\_\_

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Robert Zimmerman, Moorhead City Engineer

Concur: April 6, 2016 Non-Concur \_\_\_\_\_

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Nathan Boerboom, Diversion Authority Project  
Manager

Concur: April 6, 2016 Non-Concur: \_\_\_\_\_

Terracon Consultants, Inc.

# Task Order No. 1, Amendment ~~2~~3

## MFDA Purchase Order No. 173390

### **Materials Testing Services for Work Package 42 (WP-42)**

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In accordance with Paragraph 1.01 of the Agreement between **Metro Flood Diversion Authority** ("Owner") and **Terracon Consultants, Inc.** ("Testing Firm") for Professional Services – Task Order Edition, dated June 26, 2014 ("Agreement"), Owner and Testing Firm agree as follows:

The parties agree that in the event of a conflict between prior versions of this Task Order No. 1 and this Amendment, the terms and conditions in this Amendment shall prevail, provided however, nothing herein shall preclude Testing Firm from invoicing for work authorized under prior versions of this Task Order and performed prior to effective date of this Amendment, even to the extent such prior work was revised by this Amendment. All other terms and conditions shall remain the same and are hereby ratified and affirmed by the parties.

#### 1. Specific Project Data

##### A. Title: **Materials Testing Services for Work Package 42 (WP-42)**

Description: Provide materials testing services per Owner's Quality Assurance testing requirements for Owner awarded construction contracts associated with the In Town Levees – Work Package 42 (excluding WP-42H: El Zagal Phase I Area Flood Risk Management Project).

##### B. Projects Included in Task Order No. 1:

1. WP-42A.2 – 2<sup>nd</sup> Street Pump Station
2. WP-42A2.A3 – 4<sup>th</sup> Street Pump Station and Gatewell
3. WP-42F.1S – 2<sup>nd</sup> Street Floodwall (South)
4. WP-42F.1N – 2<sup>nd</sup> Street Floodwall (North)
5. WP-42.H.2 – El Zagal Phase 2 Levee
6. WP-42I.1 – Mickelson Field Levee Extension
7. WP-42C.1 – Demolition - HoJo, Shakey's, Fargo PS
- ~~8.~~ 9. WP-42A1.A3 – Pump Station Demolition
- ~~8-10.~~ 9-10. WP-43E.2C – Home Demolition (17495 52 ST SE, Hickson, ND)

#### 2. Services of Testing Firm

##### A. On Call Services

- i. The initial subtask for this Task Order will be On Call Services, as requested in by the Owner's Construction Manager, to provide initial testing services for the In Town Levees, Work Package 42 (excluding WP-42H: El Zagal Phase I Area Flood Risk Management Project).
- ii. Testing Firm shall compile test results for each active project daily and provide electronic test and inspection logs to Owner's Construction Manager weekly (refer to attachment).
- iii. Testing services shall include, but not limited to, the following:
  1. Density testing
  2. Concrete testing
  3. Compression tests

- 4. Moisture-Density testing
  - 5. Pre-placement inspections
  - 6. Reinforcement inspections
- iv. As Owner's Certified Asbestos Consultant, provide asbestos abatement monitoring, survey and sampling (where required) services for WP-42C.1, WP-42C.2, WP-42H.2, ~~and WP-42I.1, WP-42A1.A3, and WP-43E.2C~~; and report directly to the Owner's Representative. Testing Firm shall also perform minor incidental work as deemed necessary by Owner's Representative. Provide qualified personnel meeting North Dakota Department of Health requirements for asbestos abatement. Be responsible for monitoring all asbestos abatement work to ensure contractor complies with local, state, and federal regulations. Immediately report all violations to the Owner's Representative. Work includes ambient air monitoring and analysis as needed, and review of submittals, certifications and licenses. In addition, Testing Firm shall prepare and submit daily reports and weekly summaries with estimated amount of material removed, along with a final closeout report for ~~WP-42C.1, WP-42C.2, WP-42H.2, and WP-42I.1.~~ the forementioned work packages.

3. Owner's Responsibilities

Owner shall have those responsibilities set forth in Article 2 and in EXHIBIT B of the Agreement.

4. Times for Rendering Services

<u>Subtask</u>	<u>Start Time</u>	<u>Completion Time</u>
All Work	September 12, 2014	December 31, 2016

5. Payments to Testing Firm

- A. Owner shall pay Testing Firm for services rendered as follows:
  - I. Compensation for services identified under Subtask A shall be on a Time and Materials basis in accordance with the Standard Hourly and Testing Rates shown in Exhibit C of the Agreement.
  - II. The total compensation for services identified under the Task Order is defined in the table below.
- B. Testing Firm will notify Owner when 80 percent of the budget is expended.
- C. Testing Firm will submit an amendment for additional compensation when 90 percent of the budget is expended, or confirm to Owner that this Task Order can be completed for the remaining budget.
- D. Testing Firm will not perform work beyond 100 percent of the budget for Task Order No. 1 without Owner's authorization by an amendment to this Task Order or Authorized Work Directive.

<b>Subtask</b>	<b><u>Activity ID</u></b>	<b>Current Budget (\$)</b>	<b>Change (\$)</b>	<b>Revised Budget (\$)</b>
A. On Call Services	<u>CN-XXXX-WP-42SDC</u>	<u>450,000525,000</u>	<u>75,00082,500</u>	<u>525,000607,500</u>
<b>TOTAL</b>		<b><u>450,000525,000</u></b>	<b><u>75,00082,500</u></b>	<b><u>525,000607,500</u></b>

E. The terms of payment are set forth in Article 4 and EXHIBIT C of the Agreement.

F. When invoicing work, Engineer shall note the Activity ID (shown in the table above) associated

with each invoiced activity.

G. Provide monthly invoice and status report

- i. Status report will accompany invoice, and detail work completed during the invoice period.
- ii. Status report will be organized by subtask, and provide narrative of work completed on each subtask.
- iii. Status of work completed will include:
  1. Outstanding issues to resolve, expected steps to progress work, outstanding items required from Owner, Owner's Representative, or others to progress work, anticipated completion date of subtasks.
  2. Dates of on-call services provided, and description of the activities performed by Engineer, including any deliverables produced.
  3. Dates of deliverables otherwise required under the Project Management task.

6. Subconsultants: None

7. Other Modifications to Agreement: None

8. Attachments: None

9. Documents Incorporated By Reference:

- A. Agreement Between Owner and Testing Firm for Professional Services, dated August 14, 2014.
- B. AWD-00048 REV-0, Materials Testing Services for Work Package 42 (WP-42), dated May 28, 2015.
- C. AWD-00053, Asbestos Abatement Monitoring Services, dated December 7, 2015.
- D. Terracon Proposal – Asbestos Consulting Services dated December 23, 2015 (submitted in support of Amendment 2)
- E. Terracon Proposal – Asbestos Consulting Services dated March 29, 2016 (submitted in support of Amendment 3)

~~11-10.~~ Terms and Conditions: Execution of this Task Order by Owner and Engineer shall make it subject to the terms and conditions of the Agreement (as modified above), which Agreement is incorporated by this reference. Testing Firm is authorized to begin performance upon its receipt of a copy of this Task Order signed by Owner.

The Effective Date of this Task Order is September 12, 2014.

TESTING FIRM:

**Terracon Consultants, Inc.**

Signature

Date

Jonathan Ellingson

Name

Principal in Charge

Title

DESIGNATED REPRESENTATIVE FOR TASK ORDER:

Jeffrey J. Mathson

Name

Project Manager

Title

4102 7<sup>th</sup> Avenue North  
Fargo, ND 58102-2923

Address

[jmathson@terracon.com](mailto:jmathson@terracon.com)

E-Mail Address

(701) 282-9633

Phone

OWNER:

**Fargo-Moorhead Metro Diversion Authority**

Signature

Date

Darrell Vanyo

Name

Chairman, Flood Diversion Board of Authority

Title

DESIGNATED REPRESENTATIVE FOR TASK ORDER:

Keith Berndt

Name

Cass County Administrator

Title

211 9th Street South  
PO Box 2806  
Fargo, ND 58108-2806

Address

[berndtk@casscountynd.gov](mailto:berndtk@casscountynd.gov)

E-Mail Address

(701) 241-5720

Phone

**Summary of Terracon Amendment 3 budget changes (See attached Mar 29, 2016 Terracon Proposal for details):**

Work Package	Amendment 2	Amendment 2 &3 (total Terracon budget)	Amendment 3 (rounded estimates)	Comment
WP-42.C.2	\$ 48,415.00	\$ 65,802.50	\$ 17,500	Work duration increased from 9 weeks to 10 weeks; Added cost for the additional Foundation Waterproofing Removal work;
WP-42.C.1	\$ 15,025.00	\$ 48,578.75	\$ 33,600	Increased from 2 weeks to 6-weeks; includes previous work already completed and additional work to include non-destructive sampling
WP42.H.2	7000	\$ 17,460.00	\$ 10,500	Estimated 2 weeks to perform; includes previous work already performed.
WP-42.I.1	4560	\$ 10,823.75	\$ 6,300	Estimated 1 week to perform; includes previous work already performed.
WP-42A1.A3		\$ 4,090.00	\$ 4,100	This is for the lift station demolition
WP-43E.2C		\$ 2,908.40	\$ 3,000	Includes asbestos and hazardous building materials survey, Hickson ND demo property
	\$ 75,000.00	\$ 149,663.40	\$ 75,000	
Allowance for Future Incidental Work			\$ 7,500	This value was not provided by Terracon. The incidental work may include the cost of the LBP monitoring that was not included in the Terracon proposal due to lack of information to develop estimate. Estimated amount is 10% of the TO1-A3 change amount.
<b>TO1-A3 Amount</b>			<b>\$ 82,500</b>	Proposed TO1-A3 budget increase (with allowance for incidental work)

March 29, 2016



Fargo-Moorhead Metro Diversion Authority  
211 9<sup>th</sup> Street South  
PO Box 2806  
Fargo, North Dakota 58108-2806

Attn: Mr. Keith Berndt  
P: (701) 241-5720  
E: berndtk@casscounttynd.gov

**Re: Asbestos Consulting Services**  
In-Town Levees  
Fargo, Cass County, North Dakota 58102  
Terracon Proposal No. PM1167033

Dear Mr. Berndt:

Terracon Consultants, Inc. (Terracon) is pleased to submit this proposal to the Fargo-Moorhead Metro Diversion Authority (F-M Diversion Authority) to provide asbestos consulting services during demolition and construction projects associated with the In-Town Levees.

Terracon's general scope of services, budget, and proposed schedule for this project will follow the requested scope of services submitted by Mr. Francis Dayao of CH2M Hill on November 13, 2015. Additional scope includes asbestos bulk sampling and additional oversight of projects including the El Zagal and Michelson phases. If we have misinterpreted any portion of the project, please let us know.

## **A. SCOPE OF SERVICES**

Based on our understanding of project requirements, the following scope of services is proposed. Terracon will work directly with the F-M Diversion Authority's representatives at CH2M Hill. CH2M Hill will serve as the project management team throughout the project.

### **Task 1 – Project Consulting:**

Terracon has been requested to serve as the Owner's Consultant (NC) for the asbestos abatement projects associated with the demolition of structures along the proposed In-Town Levee system. While several aspects of the project and future projects are currently unknown, it is anticipated the abatement phase of the Park East Apartment Demolition project located at One South Second Street, Fargo, North Dakota will take approximately nine weeks to complete. The abatement phase

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of the Howard Johnson Hotel Demolition located at 301 Third Avenue North, Fargo, North Dakota is anticipated to take approximately six weeks to complete. Further suspect material sampling and analysis will be conducted with potential increases in asbestos-containing materials (ACM). If additional ACM is found, Terracon anticipates an increase the abatement phase timeline. Terracon will review copies of notices and submittals from the abatement contractor as forwarded from CH2M Hill via the submittal process established for this project.

Abatement monitoring is required by the specification supplied by CH2M Hill. The specification considered for review is Section 02 82 16.00 20 Engineering Control of Asbestos Containing Materials for WP-42.C.1, WP-42.C.2, WP-42.H.2, WP-42.I.1, and WP-42.A.1. Additional specifications were not available at the time of this proposal supplement.

Terracon will provide a State of North Dakota accredited asbestos professional who will be on-site for the duration of the abatement phase of the project. Terracon will be on-site to conduct pre-abatement inspections of the work areas, containments, and waste storage locations prior to abatement. Services provided by Terracon will follow the attached Scope of Services for WP-42.C.2 – Park East Demolition Project (Scope) and WP-42.C.1 – Howard Johnson Hotel, Old Shakey’s Pizza and Fargo Public Schools. El Zagal and Michelson projects, WP-42.H.2 and WP-42.I.1 and the Lift Station WP-42.A.1 are also included.

At the completion of abatement activities, Terracon will inspect the workspaces to confirm that ACMs have been removed. Terracon will inspect work to ensure compliance with project specifications as provided in the Scope.

### **Task 2 – Reporting:**

Terracon will provide daily reports as requested including documentation of abatement activities by the contractor and weekly summaries with estimated amounts of material removed.

### **Task 3 – Onsite Air Monitoring:**

During the course of abatement, Terracon may randomly conduct ambient air monitoring for asbestos outside the work areas. When requested or as scheduled, Terracon will collect no more than five ambient air samples outside the work area during each day of abatement, per 10-hour shift. Blanks will also be submitted to the laboratory for analysis. Terracon will also perform periodic visual observations of the regulated work area for compliance with project specifications. Ambient air samples collected during the project will be analyzed by phase contrast microscopy (PCM) in accordance with the National Institute for Occupational Safety and Health (NIOSH) Method 7400 *Asbestos Fibers by PCM*. Terracon will discuss issues that may arise with the abatement contractor and coordinate with CH2M Hill as necessary to seek resolution.

When requested or as scheduled, Terracon will inspect the workspace to confirm that ACMs have been removed as part of a companion walk through with the private qualified person (PQP).

## **Task 4 – Asbestos and Hazardous Building Materials Survey**

### **Project Information:**

Terracon understands the site is the former residential structure located at 17495 52<sup>nd</sup> Street SE, Hickson, North Dakota (Site). Terracon understands the structure has been scheduled for demolition and is currently vacant.

The purpose of our services is to conduct a National Emission Standards for Hazardous Air Pollutants (NESHAP) asbestos pre-demolition survey to identify and quantify asbestos materials that would need to be abated prior to demolition (i.e., disposal) of the structure. In addition, Terracon will assess the building for mercury (Hg)-containing devices and lamps, polychlorinated biphenyl (PCB)-containing equipment, and other hazardous building materials that might be present, which would need to be remediated prior to proposed demolition of the structure. If this is not accurate, or if you have additional useful information, please inform us as soon as possible so we can revise our proposal.

This proposal anticipates access during normal business hours (7 am – 5 pm), allowing Terracon to have unrestricted access to the building on the Site during the survey services. If additional mobilizations are required to complete the services, additional fees will be invoiced on a time and materials basis with your approval.

The survey will be conducted to comply with the Environmental Protection Agency (EPA) NESHAP regarding demolition activities, barring sampling limitations.

### **Scope of Services:**

Terracon will provide trained, experienced, and licensed personnel to conduct the following services:

### **Asbestos Assessment and Sampling:**

We propose to conduct a survey using applicable portions of the currently recognized standard protocol developed for buildings under NESHAP 40 Code of Federal Regulations (CFR) 61 Part M and North Dakota Administrative Code 33-15-13, Emission Standards for Hazardous Air Pollutants.

Terracon will mobilize a licensed asbestos inspector to conduct an asbestos survey as required by the State of North Dakota. Terracon will conduct a visual assessment of the building to identify materials suspected of containing asbestos (suspect ACM) such as thermal system insulation, surfacing materials, and miscellaneous materials (e.g., floor tiles).

Suspect materials will be physically assessed for friability and evidence of damage or degradation. Samples of suspect ACM will be collected for laboratory analysis. Bulk sample collection will be conducted in general accordance with the sampling protocols established in EPA regulations under 40 CFR 763-Asbestos.

Although a destructive sampling approach will be used, Terracon may not be able to view every area within the building. Terracon will not be responsible for repair or touch-up of sample locations. Reasonable efforts to access suspect materials within known areas of restricted access (e.g., crawl spaces) will be made provided these areas are not determined to be permit-required confined spaces or pose a potential health or safety risk to Terracon personnel. Samples of suspect materials that cannot be safely reached with available ladders/man-lifts will not be collected. Areas deemed unsafe for entry by the asbestos inspector will not be sampled. Materials not sampled due to an extenuating circumstance will be noted in the report.

Since the roof will be sampled, F-M Diversion Authority must agree to defend and hold Terracon harmless from subsequent liability and damages that may result by signing the attached Roof Sampling Release. Due to the planned demolition and existing roof damage, Terracon will not apply patching to roof sample locations.

A laboratory accredited by the National Voluntary Laboratory Accreditation Program (NVLAP) will analyze bulk material samples by visual estimation using polarized light microscopy (PLM). When PLM sample results are greater than zero but less than 10% asbestos, the samples will be reanalyzed using the more quantitative point counting technique, or the material may be considered ACM and subject to NESHAP regulations. If PLM results merit reanalysis by the more quantitative point counting technique, this analysis will be conducted at no additional cost to F-M Diversion Authority. Normal turnaround time (TAT) for sample analysis is five working days from time of arrival at the laboratory; analytical time may be reduced for an increased sample analysis cost. If vermiculite is present, additional costs will be incurred for analysis; samples may be analyzed by EPA Method 600/R-4/004 utilizing a tiered PLM and transmission electron microscopy (TEM) gravimetric analysis method with a <0.25% LOQ<sup>1</sup> on a one-week TAT. If vermiculite is present, Terracon will contact F-M Diversion Authority prior to ordering this more expensive analysis.

### **PCB Assessment and Sampling:**

The EPA has recently reinterpreted previous guidance documents with respect to the sampling, management, removal, and disposal of PCB-containing caulk. Terracon recommends evaluating and sampling PCB caulking in response to current guidance provided by the EPA when caulking is rendered remediation waste. Samples collected for characterizing the presence of PCB will utilize composite sampling techniques. Terracon will collect up to two separate composite

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<sup>1</sup> LOQ = limit of quantitation

samples of caulk/sealants during the Survey. The collected samples will be submitted to Pace Analytical, Inc. (Pace) for laboratory analysis of PCB with a request for a standard turnaround time of 5 days.

### **Regulated Materials Visual Assessment:**

Terracon will conduct a visual assessment for building materials that may be classified as hazardous waste and/or special waste collectively referred to as Regulated Materials. Items physically adhered to the structure and/or chemicals for maintaining stationary equipment on the site will be inventoried. The assessment will include items such as fluorescent and high intensity discharge lamps, ballasts, oil-filled items, ozone depleting chemicals, paints, solvents, and other miscellaneous items within the building. Destructive testing and analysis of these materials will not be conducted. If observed, these materials will be noted in our report.

### **Survey Report:**

Terracon will prepare a written report describing the sampling methods and the results of the surveys. The report will include the following elements.

- The number, description, type, and location of samples collected, and concerning ACM, the friability, the type of ACM, and the degree of damaged ACM;
- Analytical results of collected samples;
- An approximate quantification of the amount of each type of ACM;
- A drawing of the structure indicating sample locations;
- Estimated quantities of PCB-containing electrical equipment, mercury-containing devices, and other materials requiring proper disposal methods.

One electronic copy (PDF) of the survey report will be submitted that presents the results of this assessment, based upon the scope of services and limitations described herein. The survey report will be provided to F-M Diversion Authority within approximately 10 days of receiving final laboratory results.

### **Task 5 – Final Closeout Report:**

At the conclusion of the work and upon receipt of abatement documentation, Terracon will prepare the final closeout report. A separate closeout report will be created for each work package. At this time, WP.C.1, WP.C.2, WP-42.H.2, and WP-42.I.1 will be provided with separate reports upon amendment. The closeout reports will include a description of the work, results of the air sampling programs, and documentation of final clearances and waste disposal. Terracon will also review the abatement contractor's post job submittals, which will include waste manifests, personal air monitoring results, documentation/work logs, and applicable accreditations or licenses.

## **Key Understandings/Limitations**

- The demolition contractor, as awarded by the F-M Diversion Authority, must provide timely right of entry to conduct the described services, as well as access to project areas;
- Terracon will comply with the Health and Safety Protocols as defined by the abatement contractor and/or demolition contractor. Restrictions or special requirements regarding the site must be made known to Terracon prior to commencing the site work;
- CH2M Hill will provide insurance liability requirements to be met by the abatement contractor;
- All services and work performed by Terracon for CH2M Hill and all documents relating in any way to the work shall be confidential. Any inquiries from anyone, including but not limited to tenants, governmental agencies, media, and the public, shall be directed to CH2M Hill;
- Terracon will not direct the activities of the Contractor. Terracon will notify CH2M Hill of concerns and CH2M Hill will direct the Contractor as deemed necessary;
- Terracon will not be responsible for and will not have control or charge of additional construction means, design changes, methods, techniques, sequences, or procedures, or for safety precautions and programs established by a General Contractor or abatement contractor;
- Terracon will not be responsible for the abatement contractor's failure to carry out the work in accordance with the abatement contract documents and Specification;
- Terracon will not be responsible, have control, or charge over the acts or omissions of the abatement contractor, any of its subcontractors, any of their agents or employees, or any other persons performing any of the work;
- Terracon will not be responsible for the abatement contractor's activities related to site safety during the project. If Terracon identifies imminent hazards at the site, Terracon has stop work authority if work is in violation of regulations. CH2M Hill will be notified of the concern and it will be the abatement contractor's sole responsibility to correct the deficiency at their expense;

## **Schedule**

Terracon has begun the above Scope of Services for WP-42.C.2 (Park East Demolition) and will provide services for WP-42.C.1, WP-42.H.2, and WP-42.I.1 immediately following acceptance of this revised proposal via email and our receipt of a new F-M Diversion Authority Task Order or authorization to proceed.

## C. COMPENSATION

On a time and materials basis, our estimated fees for the scope of services outlined above are:

### WP-42.C.2 (Park East Demolition)

<b>Revised WP-42.C.2 Daily Tasks (estimated 10-weeks)</b>	<b>Estimated Daily Fee</b>	<b>Estimated Total Fee</b>
Pre-Abatement work (includes submittal review, client meetings, site visits, Certified Industrial Hygienist review, email and phone conversations, administrative support) Per Fee Schedule	N/A	\$3,000.00
A – Asbestos Consulting (8 hours a day @ \$105.00/hour) & Monitoring incidental materials (\$25/day)	\$865.00	\$43,250.00
B – Reporting (Weekly report – two hours@ \$105.00/hour)	\$210.00	\$1,890.00
C – Project Management and site visits (per fee schedule) anticipated 10% of Asbestos Consulting plus CH2M requested services)	\$86.50	\$3,892.50
<b>Estimated Daily Fees:</b>		<b>\$47,707.50</b>
Miscellaneous expenses at cost plus 15% (per fee schedule)		<b>\$500.00</b>
<ul style="list-style-type: none"> <li>Asbestos sampling (bulk samples) per fee schedule and client requested time schedule)</li> </ul>		
<ul style="list-style-type: none"> <li>Shipping</li> </ul>		

Park East had nine additional bulk samples @ \$11.25 each plus additional time on-site for meetings regarding the foundation wall water-proofing. Terracon estimated additional amount is listed above and included in the estimated project total below.

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<b>WP-42.C.2 Variable Fee – Air Monitoring Tasks</b>	<b>Estimated Daily Fee</b>	<b>Estimated Total Fee</b>
D – Onsite Air Monitoring per event		
<ul style="list-style-type: none"> <li>• Sample collection (includes air pumps and daily supplies) (\$65.00/each day) (estimated 24 days)</li> </ul>	\$65.00	\$1,560.00
<ul style="list-style-type: none"> <li>• Daily adjacent sampling (estimated six cassettes) (24 events)                             <ul style="list-style-type: none"> <li>○ Sample analysis (shipping &amp; analysis for independent laboratory and assumes a 3-hour TAT) (\$150.00/each)</li> </ul> </li> </ul>	\$150.00	\$3,600.00
OR		
<ul style="list-style-type: none"> <li>○ Sample analysis (equipment and onsite analysis) (\$250.00/each)</li> </ul>	\$250.00	\$6,000.00
<ul style="list-style-type: none"> <li>• Clearance sampling (estimated seven cassettes per event) (6 events)                             <ul style="list-style-type: none"> <li>○ Sample analysis (shipping &amp; analysis for independent laboratory) (\$175.00/each)</li> </ul> </li> </ul>	\$175.00	\$1,050.00
OR		
<ul style="list-style-type: none"> <li>○ Sample analysis (equipment and onsite analysis) (\$275.00/each)</li> </ul>	\$275.00	\$1,650.00
<b>Estimated Variable Fees</b>	<b>\$390.00 to \$590.00</b>	<b>\$6,210.00 to \$9,210.00</b>
E – Foundation waterproofing removal observations (estimated 4 to 8 days)		
<ul style="list-style-type: none"> <li>• Asbestos consulting (up to 4 hours a day @ \$105.00/hour) includes daily observations and visual clearance of material removal.</li> </ul>	\$420.00	\$1,680.00 to \$3,360.00
<b>Estimated Observation Fees</b>	<b>\$420.00</b>	<b>\$1,680.00 to \$3,360.00</b>
F – Final Closeout Report		\$1,200.00
<b>Estimated Project Total:</b>		<b>\$61,622.50 to \$65,802.50</b>

**WP-42.C.1 (Shakey’s Pizza and Howard Johnson Demolition)**

<b>WP-42.C.1 Daily Tasks (estimated 6-weeks)<sup>2</sup></b>	<b>Estimated Daily Fee</b>	<b>Estimated Total Fee</b>
Pre-Abatement work (includes submittal review, client meetings, site visits, Certified Industrial Hygienist review, email and phone conversations, administrative support) Per Fee Schedule	N/A	\$3,000.00
A – Asbestos Consulting (8 hours a day @ \$105.00/hour) & Monitoring incidental materials (\$25/day)	\$865.00	\$25,950.00
B – Reporting (Weekly report – two hours@ \$105.00/hour)	\$210.00	\$1,260.00
C – Project Management and site visits (per fee schedule) anticipated 10% of Asbestos Consulting plus CH2M requested services)	\$86.50	\$2,595.00
<b>Estimated Daily Fees:</b>		<b>\$32,805.00</b>
Miscellaneous expenses at cost plus 15% (per fee schedule)		
<ul style="list-style-type: none"> <li>Asbestos sampling (bulk samples) per fee schedule and client requested analysis schedule (TAT)</li> </ul>	167	\$1,878.75
<ul style="list-style-type: none"> <li>Additional sampling hours (approximate)</li> </ul>	12 hours	\$1,000
<ul style="list-style-type: none"> <li>Shipping (estimated)</li> </ul>		\$45.00
<b>Estimated Additional Fees:</b>		<b>\$2,923.75</b>

Howard Johnson had 167 additional bulk samples @ \$11.25 each plus additional time on-site for sampling. Terracon estimated additional amount is listed above and included in the estimated project total below.

<sup>2</sup> Terracon will revise the estimated timeline based on abatement contractor’s submitted schedule



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<b>WP-42.C.1 Variable Fee – Air Monitoring Tasks</b>	<b>Estimated Daily Fee</b>	<b>Estimated Total Fee</b>
D – Onsite Air Monitoring per event		
<ul style="list-style-type: none"> <li>• Sample collection (includes air pumps and daily supplies) (\$65.00/each day) (estimated 30 days)</li> </ul>	\$65.00	\$1,950.00
<ul style="list-style-type: none"> <li>• Daily adjacent sampling (estimated six cassettes) (30 events)</li> </ul>		
<ul style="list-style-type: none"> <li>○ Sample analysis (shipping &amp; analysis for independent laboratory and assumes a 3-hour TAT) (\$150.00/each)</li> </ul>	\$150.00	\$4,500.00
OR		
<ul style="list-style-type: none"> <li>○ Sample analysis (equipment and onsite analysis) (\$250.00/each)</li> </ul>	\$250.00	\$7,500.00
<ul style="list-style-type: none"> <li>• Clearance sampling (estimated seven cassettes per event) (8 events)</li> </ul>		
<ul style="list-style-type: none"> <li>○ Sample analysis (shipping &amp; analysis for independent laboratory) (\$175.00/each)</li> </ul>	\$175.00	\$1,400.00
OR		
<ul style="list-style-type: none"> <li>○ Sample analysis (equipment and onsite analysis) (\$275.00/each)</li> </ul>	\$275.00	\$2,200.00
<b>Estimated Variable Fees</b>	<b>\$390.00 to \$590.00</b>	<b>\$7,850.00 to \$11,650.00</b>
E – Final Closeout Report		\$1,200.00
<b>Estimated Project Total:</b>		<b>\$44,778.75 to \$48,578.75</b>

**WP-42.H.2 (El Zagal Demolition)**

<b>WP-42.H.2 Daily Tasks (estimated 2-weeks)<sup>3</sup></b>	<b>Estimated Daily Fee</b>	<b>Estimated Total Fee</b>
Pre-Abatement work (includes submittal review, client meetings, site visits, Certified Industrial Hygienist review, email and phone conversations, administrative support) Per Fee Schedule	N/A	\$1,500.00
A – Asbestos consulting (up to 4 hours a day @ \$105.00/hour) includes daily observations and visual clearance of material removal.	\$420.00	\$4,200.00
B – Reporting (Weekly report – two hours@ \$105.00/hour)	\$210.00	\$420.00
C – Project Management and site visits (per fee schedule) anticipated 10% of Asbestos Consulting plus CH2M requested services)	\$42.00	\$420.00
<b>Estimated Daily Fees:</b>		<b>\$6,540.00</b>
Miscellaneous expenses at cost plus 15% (per fee schedule)		
<ul style="list-style-type: none"> <li>Asbestos sampling (bulk samples) per fee schedule and client requested time schedule)</li> </ul>	312 samples	\$3,510
<ul style="list-style-type: none"> <li>Shipping (estimated)</li> </ul>	3	\$60.00
<ul style="list-style-type: none"> <li>Additional sampling hours (approximate)</li> </ul>	40 hours	\$3,200
<b>Estimated Additional Fees:</b>		<b>\$6,770.00</b>

El Zagal had an average of 39 additional bulk samples per house @ \$11.25 each plus additional time on-site for meetings and sampling time. Terracon estimated additional amount is listed above and included in the estimated project total below. Original verbal estimate was approximately \$1,500 per house.

<sup>3</sup> Terracon will revise the estimated timeline based on abatement contractor’s submitted schedule

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<b>WP-42.H.2 Variable Fee – Air Monitoring Tasks</b>	<b>Estimated Daily Fee</b>	<b>Estimated Total Fee</b>
D – Onsite Air Monitoring per event		
<ul style="list-style-type: none"> <li>• Sample collection (includes air pumps and daily supplies) (\$65.00/each day) (estimated 5 days)</li> </ul>	\$65.00	\$325.00
<ul style="list-style-type: none"> <li>• Daily adjacent sampling (estimated six cassettes) (5 events)               <ul style="list-style-type: none"> <li>○ Sample analysis (equipment and onsite analysis) (\$250.00/each)</li> </ul> </li> </ul>	\$250.00	\$1,250.00
<ul style="list-style-type: none"> <li>• Clearance sampling (estimated seven cassettes per event) (5 events)               <ul style="list-style-type: none"> <li>○ Sample analysis (equipment and onsite analysis) (\$275.00/each)</li> </ul> </li> </ul>	\$275.00	\$1,375.00
<b>Estimated Variable Fees</b>	<b>\$590.00</b>	<b>\$2,950.00</b>
E – Final Closeout Report		\$1,200.00
<b>Estimated Project Total:</b>		<b>\$17,460.00</b>

**WP-42.I.1 (Michelson Demolition)**

<b>WP-42.I.1 Daily Tasks (estimated 1-week)<sup>4</sup></b>	<b>Estimated Daily Fee</b>	<b>Estimated Total Fee</b>
Pre-Abatement work (includes submittal review, client meetings, site visits, Certified Industrial Hygienist review, email and phone conversations, administrative support) Per Fee Schedule	N/A	\$1,500.00
A – Asbestos consulting (up to 4 hours a day @ \$105.00/hour) includes daily observations and visual clearance of material removal.	\$420.00	\$2,100.00
B – Reporting (Weekly report – two hours @ \$105.00/hour)	\$210.00	\$210.00
C – Project Management and site visits (per fee schedule) anticipated 10% of Asbestos Consulting plus CH2M requested services)	\$42.00	\$210.00
<b>Estimated Daily Fees:</b>		<b>\$4,020.00</b>

<sup>4</sup> Terracon will revise the estimated timeline based on abatement contractor's submitted schedule

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Miscellaneous expenses at cost plus 15% (per fee schedule)		
<ul style="list-style-type: none"> <li>Asbestos sampling (bulk samples) per fee schedule and client requested time schedule)</li> </ul>	195 samples	\$2,193.75
<ul style="list-style-type: none"> <li>Shipping (estimated)</li> </ul>	2	\$40.00
<ul style="list-style-type: none"> <li>Additional sampling hours (approximate)</li> </ul>	20 hours	1,600.00
<ul style="list-style-type: none"> <li><b>Estimated Additional Fees:</b></li> </ul>		<b>\$3,833.75</b>

El Zagal had an average of 39 additional bulk samples per house @ \$11.25 each plus additional time on-site for meetings and sampling time. Terracon estimates the additional amount listed above for the five Michelson structures and included in the estimated project total below. Original verbal estimate was approximately \$1,500 per house.

<b>WP-42.I.1</b>	<b>Estimated Daily Fee</b>	<b>Estimated Total Fee</b>
<b>Variable Fee – Air Monitoring Tasks</b>		
D – Onsite Air Monitoring per event		
<ul style="list-style-type: none"> <li>Sample collection (includes air pumps and daily supplies) (\$65.00/each day) (estimated 3 days)</li> </ul>	\$65.00	\$195.00
<ul style="list-style-type: none"> <li>Daily adjacent sampling (estimated six cassettes) (3 events)                             <ul style="list-style-type: none"> <li>Sample analysis (shipping &amp; analysis for independent laboratory and assumes a 3-hour TAT) (\$150.00/each)</li> </ul> </li> </ul>	\$150.00	\$450.00
OR		
<ul style="list-style-type: none"> <li>Sample analysis (equipment and onsite analysis) (\$250.00/each)</li> </ul>	\$250.00	\$750.00
<ul style="list-style-type: none"> <li>Clearance sampling (estimated seven cassettes per event) (5 events)                             <ul style="list-style-type: none"> <li>Sample analysis (shipping &amp; analysis for independent laboratory) (\$175.00/each)</li> </ul> </li> </ul>	\$175.00	\$525.00
OR		
<ul style="list-style-type: none"> <li>Sample analysis (equipment and onsite analysis) (\$275.00/each)</li> </ul>	\$275.00	\$825.00
<b>Estimated Variable Fees</b>	<b>\$390.00 to \$590.00</b>	<b>\$1,170.00 to \$1,770.00</b>
E – Final Closeout Report		\$1,200.00
<b>Estimated Project Total:</b>		<b>\$10,223.75 to \$10,823.75</b>

**WP-42.A.1 (Lift Station Demolition)**

<b>WP-42.A.1 Daily Tasks (estimated 1-week)<sup>5</sup></b>	<b>Estimated Daily Fee</b>	<b>Estimated Total Fee</b>
Pre-Abatement work (includes submittal review, client meetings, site visits, Certified Industrial Hygienist review, email and phone conversations, administrative support) Per Fee Schedule	N/A	\$1,500.00
A– Asbestos consulting (up to 4 hours a day @ \$105.00/hour) includes daily observations and visual clearance of material removal.	\$420.00	\$2,100.00
B – Reporting (Weekly report – two hours@ \$105.00/hour)	\$210.00	\$210.00
C – Project Management and site visits (per fee schedule) anticipated 10% of Asbestos Consulting plus CH2M requested services)	\$42.00	\$210.00
<b>Estimated Daily Fees:</b>		<b>\$2,520.00</b>
Miscellaneous expenses at cost plus 15% (per fee schedule)		
<ul style="list-style-type: none"> <li>• Asbestos sampling (bulk samples) per fee schedule and client requested time schedule)</li> <li>• Shipping</li> </ul>		
D – Onsite Air Monitoring per event		
<ul style="list-style-type: none"> <li>• Sample collection (includes air pumps and daily supplies) (\$65.00/each day) (estimated 3 days)</li> <li>• Daily adjacent sampling (estimated six cassettes) (2 events)               <ul style="list-style-type: none"> <li>○ Sample analysis (shipping &amp; analysis for independent laboratory and assumes a 3-hour TAT) (\$150.00/each)</li> </ul> </li> </ul>	\$65.00	\$195.00
OR		
<ul style="list-style-type: none"> <li>○ Sample analysis (equipment and onsite analysis) (\$250.00/each)</li> <li>• Clearance sampling (estimated seven cassettes per event) (1 event)               <ul style="list-style-type: none"> <li>○ Sample analysis (shipping &amp; analysis for independent laboratory) (\$175.00/each)</li> </ul> </li> </ul>	\$250.00	\$500.00
OR		
<ul style="list-style-type: none"> <li>○ Sample analysis (equipment and onsite analysis) (\$275.00/each)</li> </ul>	\$275.00	\$275.00
<b>Estimated Variable Fees</b>	<b>\$390.00 to \$590.00</b>	<b>\$670.00 to \$970.00</b>

<sup>5</sup> Terracon will revise the estimated timeline based on abatement contractor’s submitted schedule

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E – Final Closeout Report		\$600.00
<b>Estimated Project Total:</b>		<b>\$3,790.00</b> to <b>\$4,090.00</b>

**WP- (Home at 17495 52<sup>nd</sup> Street SE, Hickson, North Dakota)**

WP-unknown Tasks	Estimated Total Fee
A– Asbestos Survey (up to 8 hours @ \$85.00/hour)	\$680.00
B – Hazardous Building Materials Survey (up to 4 hours @ \$85.00/hour)	\$340.00
C – Asbestos Laboratory Analysis (5-day turn around) estimated 65 samples @ \$7.00/each	\$455.00
D – PCBs Laboratory Analysis (5-day turn around) estimated 2 samples @ \$75.00/each	\$150.00
D – Reporting (report – 5 hours @ \$85.00/hour)	\$425.00
E – CADD drawings (4 hours @ \$63.00/hour)	\$252.00
F – Project Management, report review, and site visits (two hours@ \$105.00/hour)	\$210.00
G – Certified Industrial Hygienist review (two hours@ \$160.00/hour)	\$320.00
<b>Estimated Daily Fees:</b>	<b>\$2,832.00</b>
Miscellaneous expenses	
• Field Supplies (\$25/per day)	\$25.00
• Shipping (cost + 15%)	\$25.00
• Mileage (actual @ 0.66 / mile) estimated 40 miles	\$26.40
<b>Estimated Project Total:</b>	<b>\$2,908.40</b>

If additional suspect ACMs are identified during demolition, Terracon will conduct bulk sample tests on a time and materials basis with the cost for each sample billed at \$11.25 per sample, hourly technician time, and shipping costs +15%. Please see the attached Asbestos Schedule of Services and Fees.

Terracon will provide a Certified Industrial Hygienist (CIH) for review of submittal documents and reports periodically throughout the project. This fee and any additional field service and/or project management time required or services requested by CH2M Hill will be billed in accordance with the attached fee schedule.

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Terracon's invoice will be submitted to the appropriate invoice submittal email on approximately 30-day billing cycles. If conditions are encountered at the property that require significant changes in the Scope of Services or a significant increase in the anticipated number of consulting hours which will increase the cost, you will be contacted for discussion and approval of such changes before we proceed.

If this revised Scope of Services meets with your approval for work associated with WP-42.C.1, WP-42.C.2, WP-42.H.2, WP-42.I.1, and WP-42.A.1; work may be initiated by acceptance of this proposal via email and our receipt of a new F-M Diversion Authority Task Order or authorization to proceed. Please email your authorization to [rodger.schmidt@terracon.com](mailto:rodger.schmidt@terracon.com) or fax to (701) 282-9635. This Agreement, and the sections of this proposal incorporated therein, shall constitute the exclusive terms and conditions and services to be performed for this project. This proposal is valid only if authorized within 60 days from the proposal date.

We appreciate the opportunity to provide this proposal and look forward to working with you on this project. In addition to asbestos services, our professionals provide geotechnical, environmental, construction materials, and facilities services on a wide variety of projects locally, regionally, and nationally. For more detailed information on all of Terracon's services please visit our web site at [www.terracon.com](http://www.terracon.com). If you have any questions or comments regarding this proposal or require additional services, please give me a call.

Sincerely,

**Terracon Consultants, Inc.**

Rodger A. Schmidt, MM  
Environmental Project Manager

 (for)  
Cindy A. Baldwin, CIH, FAIHA  
Senior Industrial Hygienist

Attachments: Scope of Services  
Fee Schedule  
Asbestos Fee Schedule

**RELEASE FOR TERRACON TO SAMPLE ROOFING MATERIALS**

Project:           **Pre-Demolition Asbestos and Hazardous Building Materials Survey**  
                      **Hickson Home Demolition**  
                      **17495 52<sup>nd</sup> Street SE**  
                      **Hickson, North Dakota**

Terracon Proposal No PM1167033

Owner: \_\_\_\_\_

Signed By: \_\_\_\_\_

Printed Name: \_\_\_\_\_

Title: \_\_\_\_\_

Date: \_\_\_\_\_



The following is a Scope of Services requested for WP-42C.2 - Park East Demolition Project:

1. Terracon shall be designated as the Owner's Certified Asbestos Consultant for this project reporting directly to the Owner's Representative. Terracon's designation as Owner's Certified Asbestos Consultant does not give Terracon any responsibility for or liability from any Work described in the demolition contractors contract for asbestos abatement. Terracon shall have the authority to stop contractor work if any work is observed that is out of compliance with regulations. The Certified Asbestos Consultant shall have the responsibility to observe and report to Owner on contractor's work and shall:
  - Ensure Contractor complies with the requirements of the project specifications, local, state and federal regulations as it relates to asbestos abatement.
  - Provide certified personnel at the project site to monitor all asbestos abatement related work by Contractor at all times.
  - Monitor all asbestos abatement related work (i.e., removal procedures, air monitoring, etc.) by Contractor.
  - Monitor Contractor's compliance with the required air sampling per 29 CFR 1926.1101.
  - Monitor Contractor's compliance with Department of Transportation requirements for transporting asbestos.
  - Monitor Contractor's asbestos negative pressure enclosure.
  - Monitor Contractor's Respiratory Protection Program.
  - Monitor Contractor's Air Sampling of airborne concentrations of asbestos fibers (ensure compliance with 29 CFR 1926.1101) and the project specifications.
  - Report any discrepancy or violations to the Owner's Representative.
2. Terracon shall review the following:
  - Review Contractor's Asbestos Hazard Abatement Plan and ensure Contractor complies with the approved Asbestos Hazard Abatement Plan. Terracon shall inform Owner's Representative if there are any violations to the Asbestos Hazard Abatement Plan, local, state and federal regulations.
  - Review all asbestos related submittals (i.e., shop drawings, product data, respiratory plan, test reports, etc.) as specified in Specification Package 02 82 16.00 20, Engineering Control of Asbestos Containing Materials. Currently, there are 38 submittals listed.
  - Review required sampling and testing results.
  - Review Contractor's final closure acceptance of asbestos abatement.
  - Review Contractor's Certifications and Personnel Credentials to ensure it meets project specifications, local, state and federal requirements.
  - Review Contractor's testing laboratory certifications (for sampling, analysis and reporting of airborne contaminants) to ensure compliance with project specifications, local, state and federal requirements.
  - Review Contractor's medical monitoring and medical certification program.
  - Review landfill certifications to ensure landfill is authorized (EPA or State approved) to accept asbestos materials.
3. Attend weekly Contractor and Owner's Representative coordination meetings. Terracon is also expected to attend incidental meetings not otherwise scheduled.

4. Prepare and compile daily reports documenting all abatement activities performed by Contractor; provide a weekly summary report to Owner's Representative. The weekly report shall include the amount of asbestos containing material removed and released for disposal on a daily basis.
5. Inspect completed work to ensure compliance with project specifications, local, state and federal regulations. Inform Owner's Representative of any delinquent work by Contractor.
6. Contractor may request Terracon to perform any required testing associated with the performance of this contract. However, Terracon's time and material required in performing such tests shall be charged to the Contractor, not the Owner.

Attachments:

- (1) TECHTRON's Pre-Demolition Regulated Materials Survey Final Report – Phase I
- (2) WP-42C.2 Park East Demolition Specification Section 02 82 16.00 20

8. Sediment Sampler .....	\$32.00 / day
9. Electric Water Level Indicator .....	\$42.00 / day
10. Data Acquisition Station w/ Transducer .....	\$140.00 / day
11. Global Positioning Device (GPS) .....	\$25.00 / day
12. Additional Transducers .....	\$75.00 / day
13. Recorder, Multi-Channel Portable Sequential Water Sampler .....	\$68.00 / day
or Flow meter/chart recorder	
14. Portable Sequential Water Sampler with Flow meter/chart recorder .....	\$125.00 / day
15. 2" Redi-Flow Pump .....	\$110.00 / day

Monitoring Equipment

1. Toxic Gas Detector (Single Gas) .....	\$48.00 / day
2. Hydrocarbon/Water Interface Probe .....	\$75.00 / day
3. Photoionization Detector .....	\$95.00 / day
4. Ion Selective Meter .....	\$68.00 / day
5. Metal/Cable Detector .....	\$58.00 / day
6. Air Velocity Indicator (Anemometer) .....	\$53.00 / day
7. Air Sampling Pump, Personal .....	\$42.00 / day
8. Air Sample Pump, Detector Tube .....	\$32.00 / day
9. Sound Level Meter .....	\$68.00 / day
10. Noise Dosimeter .....	\$63.00/ day
11. Viable Microorganism Sampler/Pump .....	\$95.00 / day
12. Carbon Monoxide Monitor (Single Gas) .....	\$53.00 / day
13. Indoor Air Quality Monitor (TSI) .....	\$95.00 / day
14. Oxygen/Combustible Gas/H2S Monitor .....	\$40.00 / day
15. Carbon Dioxide Monitor (Single Gas) .....	\$40.00 / day
16. Dissolved Oxygen Meter .....	\$63.00 / day
17. Turbidity Meter .....	\$53.00 / day
18. Landfill Gas Monitor (CH4/CO2/O2, Infrared) .....	\$140.00 /day
19. Mercury Vapor Analyzer .....	\$165.00 / day
20. Rescue/Retrieval Tripod and Winch.....	\$110.00 / day
21. Manhole Ventilator .....	\$85.00 / day

\*Increase hourly rate by 1.5 for Saturday, Sunday, and Holiday Work at client requires.

**Asbestos  
Schedule of Services and Fees  
Consulting Services  
PERSONNEL**

Labor Rates: ..... See attached Terracon Fee Schedule

**EXPENSES AND SUPPLIES**

**Airborne Analysis (includes cost of canister) (shipped to an independent laboratory):**

Phase Contrast Microscopy (PCM) analysis by NIOSH 7400 A rules (3-hour TAT) \$20.75/sample  
PCM analysis by NIOSH 7400 A rules (6-hour TAT) ..... \$14.00/sample  
PCM analysis by NIOSH 7400 A rules (24-hour TAT) ..... \$8.25/sample  
PCM analysis by NIOSH 7400 A rules (48-hour TAT) ..... \$7.00/sample  
PCM analysis by NIOSH 7400 A rules (5-day TAT) ..... \$5.75/sample  
Asbestos Hazard Emergency Response Act (AHERA) Transmission Electron Microscopy (TEM)  
analysis (40 CFR Part 763 Appendix A subpart E) (6-hour TAT) ..... \$165.50/sample  
AHERA TEM analysis (3-hour TAT) ..... \$345.00/sample  
AHERA TEM analysis (24-hour TAT) ..... \$45.00/sample  
AHERA TEM analysis (48-hour TAT) ..... \$40.25/sample  
AHERA TEM analysis (5-day TAT) ..... \$34.50/sample  
Shipping: ..... Cost + 15%

**Airborne Analysis (onsite or Terracon office):**

Phase contrast microscope ..... \$30.00/day  
Daily supplies to conduct air monitoring (includes air sampling canisters, mounting supplies and  
perishables) ..... \$25.00/day  
Per sample fee (includes monitoring samples, clearance samples, and blanks per NIOSH 582  
standards) ..... \$35.00/each

**Onsite Air Monitoring:**

High volume sampling pumps (includes pumps, stands, tubing, and GFCI protected extension  
cords) ..... \$40.00/day

**Bulk Analysis (shipped to an independent laboratory):**

Polarized Light Microscopy (PLM) analysis by EPA 600 R-93/116 (24-hour TAT) ... \$11.25/sample  
PLM by EPA 600 R-93/116 (1-week TAT) ..... \$7.00/sample  
Vermiculite analysis by EPA 600 R04-004 at a 25% LOQ<sup>1</sup> with a 5-step tiered analysis (3 samples  
required) – maximum cost to confirm negative confirmation (3-5 day TAT) ..... \$1700.00/sample  
Miscellaneous charges, including: ..... Cost + 15%

postage and handling of documents, data processing and photographic production or reproduction  
techniques, retaining additional consultants necessary to provide Services under the agreement,  
upon the Company's advance written approval, rental equipment, outside labor, public,  
transportation, materials, or other contracted services.

<sup>1</sup> Limit of Quantitation



**Technical Advisory Group Recommendation**

Meeting Date: 4/6/2016

**RECOMMENDATION FOR ACTION:**

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

**SUMMARY OF CONTRACTING ACTION:**

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

List description of Contract Action(s):

Description	Budget Estimate (\$)
<b>Industrial Builders, Inc.</b>	
<i>Change Order #6</i>	<b>\$43,488.99</b>
<ul style="list-style-type: none"> <li>WP-42A.2, 2<sup>nd</sup> Street North Pump Station – Completion Milestone Changes, Extended Warranty Duration, Modifications to Trash Rack and Rake, and Check Valve Replacement.</li> </ul>	

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

Original Agreement or Amendment	Budget (\$) Change	Original Project Cost	Revised Project Cost	Project Start	Project Completion	Comments
Original Contract	\$8,069,000.00	\$0.00	\$8,069,000.00	9-Oct-14	31-Jan-16	Contract Award recommended to lowest responsive bidder, Industrial Builders, Inc.
Change Order No. 1	\$66,920.00	\$8,069,000.00	\$8,135,920.00	9-Oct-14	31-Jan-16	Revisions to traffic control
Change Order No. 2	\$67,397.00	\$8,135,920.00	\$8,203,317.00	9-Oct-14	31-Jan-16	Accommodate unforeseen subsurface conditions (remove concrete structure and dispose of contaminated soil)
Change Order No. 3	\$225,056.00	\$8,203,317.00	\$8,428,373.00	9-Oct-14	16-Feb-16	Change in design requirements for backfill of structure
Change Order No. 4	\$238,871.75	\$8,428,373.00	\$8,667,244.75	9-Oct-14	25-Apr-16	Baffle wall, sheeting, and 2 <sup>nd</sup> Street road closure
Change Order No. 5	\$7,614.93	\$8,667,244.75	\$8,674,859.68	9-Oct-14	25-Apr-16	Physical model tests, vacuum line, pump station veneer, and cold weather construction costs.
<b>Change Order No. 6</b>	<b>\$43,488.99</b>	<b>\$8,674,859.68</b>	<b>\$8,718,348.67</b>	<b>9-Oct-14</b>	<b>7-Dec-16</b>	<b>Completion Milestone Changes, Extended Warranty Duration, Modifications to Trash Rack and Rake, and Check Valve Replacement.</b>

## DISCUSSION

1. Change Order No. 6 modifies multiple scope and schedule elements to total an increase of \$43,488.99 to the Contract Price. The Change Order consists of the following items:
  - a. **Completion Milestone Changes** – This change was previously approved under Work Change Directive 005. February 25, 2016 was previously established as the Substantial Completion date. This date will be revised to Interim Milestone A for the Project which includes brick veneer, pump station concrete, electrical cabinets and PLCs, south floodwall and screenwall, pump installation and roofing. This change item has no cost impact.
    - i. Establish August 15, 2016 as a new milestone for Pump Station Operation.
    - ii. Establish October 7, 2016 as the new Substantial Completion date on the Project.
    - iii. Establish December 7, 2016 as the new Final Completion date on the Project.
  - b. **Warranty Duration Changes** – As a result of the completion milestone changes, the warranties on various pieces of equipment including the switchgear, PLC, vertical pumps, vertical motors, will be extended. In addition IBI's builder's risk insurance will also be extended. CH2M and HMG have reviewed these costs and find them acceptable. CH2M recommends increasing the Contract Price by \$34,055.34 to accommodate these additions. This item was previously approved under Work Change Directive 005.
  - c. **Trash Rack and Rake Modifications** – The Contractor and Engineer determined that the trash rack needed to be modified from the original design to allow removal for cleaning purposes. Modifications to the trash rack and rake addressed in RFIs 053A and 069 include lifting lugs, and cables with clevises on the rake to eliminate chances of hook disengagement and cable twisting. An additional day of labor to manually attach the rack to the beam will be required due to the design changes. CH2M recommends increasing the Contract Price by \$7,489.51 to complete the changes.
  - d. **Check Valve Replacement** – Due to clearance issues, the check valve addressed in RFI 065 will need to be replaced with a Surge Buster check valve. CH2M recommends increasing the Contract Price by \$1,944.14 to account for the cost difference and restocking fee.

## ATTACHMENT(S):

1. Change Order No. 6

Submitted by:

John Glatzmaier  
CH2M HILL  
Project Manager  
Metro Flood Diversion Project

April 6, 2016

Date

Keith Berndt, Cass County Administrator  
Concur: April 7, 2016 Non-Concur: \_\_\_\_\_

April Walker, Fargo City Engineer  
Concur: \_\_\_\_\_ Non-Concur \_\_\_\_\_

Mark Bittner, Fargo Director of Engineering  
Concur: April 7, 2016 Non-Concur: \_\_\_\_\_

Jason Benson, Cass County Engineer  
Concur: April 6, 2016 Non-Concur \_\_\_\_\_

David Overbo, Clay County Engineer  
Concur: April 6, 2016 Non-Concur: \_\_\_\_\_

Robert Zimmerman, Moorhead City Engineer  
Concur: April 6, 2016 Non-Concur \_\_\_\_\_

Nathan Boerboom, Diversion Authority Project  
Manager  
Concur: April 7, 2016 Non-Concur: \_\_\_\_\_



Change Order No. 06

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Date of Issuance:	<u>4/14/2016</u>	Effective Date:	<u>4/14/2016</u>
Owner:	<u>Metro Flood Diversion Authority</u>	Owner's Contract No.:	<u>WP-42A.2</u>
Owner's Representative:	<u>CH2M HILL Engineers, Inc.</u>	Owner's Representative Project No.:	<u>435534</u>
Contractor:	<u>Industrial Builders, Inc.</u>	Contractor's Project No.:	<u></u>
Engineer:	<u>Houston-Moore Group, LLC</u>	Work Package No.:	<u>WP-42A.2</u>
Project:	<u>Fargo-Moorhead Area Diversion</u>	Contract Name:	<u>2<sup>nd</sup> Street/Downtown – In-Town Levees, 2<sup>nd</sup> Street N Pump Station, Fargo ND</u>

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

**Description:**

1. COMPLETION MILESTONE CHANGES

- a. February 25, 2016 previously established as the Substantial Completion date has been revised to Interim Milestone A for the Project which includes brick veneer, pump station concrete, electrical cabinets and PLCs, south floodwall and screenwall, pump installation and roofing. This change item has no cost impact.
- b. August 15, 2016 established as a new milestone for Pump Station Operation. This change item has no cost impact.
- c. October 7, 2016 established as the new Substantial Completion date on the Project. This change item has no cost impact.
- d. December 7, 2016 established as the new Final Completion date on the Project. This change item has no cost impact.

2. WARRANTY DURATION CHANGES

- a. As a result of the completion milestone changes, the warranties on various pieces of equipment including the switchgear, PLC, vertical pumps, vertical motors, will be extended. In addition IBI's builder's risk insurance will also be extended. The proposed cost impact of this is \$34,055.34.

3. TRASH RACK AND RAKE MODIFICATIONS

- a. Modifications to the trash rack and rake addressed in RFIs 053A and 069 include lifting lugs, and cables with clevises on the rake and an additional day of labor to manually attach the rack. The proposed cost impact is \$7,489.51.

4. CHECK VALVE REPLACEMENT

- a. Due to clearance issues, the check valve addressed in RFI 065 will be replaced with a Surge Buster check valve. The proposed cost impact is \$1,944.14.

**Attachments:**

- Change Order 6 Unit Price Schedule dated 4/14/16
- Plan Drawings P-108 (Trash Rack and Rake)
- Contractor Change Proposal Dated 3/17/2016 (Warranty, Trash Rack and Rake, Check Valve)
- Work Change Directive 005



<b>CHANGE IN CONTRACT PRICE</b>	<b>CHANGE IN CONTRACT TIMES</b> <i>[note changes in Milestones if applicable]</i>
Original Contract Price: <b>8,069,000.00</b>	Original Contract Times: Substantial Completion: <u>November 30, 2015</u> Ready for Final Payment: <u>January 31, 2016</u> days or dates
[Increase] [ <del>Decrease</del> ] from previously approved Change Orders No. <u>01</u> thru <u>05</u> :  <b>605,859.68</b>	[Increase] [ <del>Decrease</del> ] from previously approved Change Orders No. <u>01</u> thru <u>05</u> : Substantial Completion: <u>February 25, 2016</u> Ready for Final Payment: <u>April 25, 2016</u> days or dates
Contract Price prior to this Change Order:  <b>8,674,859.68</b>	Contract Times prior to this Change Order: Substantial Completion: <u>February 25, 2016</u> Ready for Final Payment: <u>April 25, 2016</u> days or dates
[Increase] [ <del>Decrease</del> ] of this Change Order:  <b>43,488.99</b>	[Increase] [ <del>Decrease</del> ] of this Change Order: Substantial Completion: <u>October 7, 2016</u> Ready for Final Payment: <u>December 7, 2016</u> days or dates
Contract Price incorporating this Change Order:  <b>8,718,348.67</b>	Contract Times with all approved Change Orders: Substantial Completion: <u>October 7, 2016</u> Ready for Final Payment: <u>December 7, 2016</u> days or dates

<p style="text-align: center;"><b>RECOMMENDED:</b></p> <p>By: _____  Owner's Representative  (Authorized Signature)</p> <p>Name: <u>Tyler Smith, P.E.</u>  Title: <u>Construction Manager</u>  Date: _____</p>	<p style="text-align: center;"><b>ACCEPTED:</b></p> <p>By: _____  Owner  (Authorized Signature)</p> <p>Name: <u>Darrell Vanyo</u>  Title: <u>Chairman</u>  Date: _____</p>	<p style="text-align: center;"><b>ACCEPTED:</b></p> <p>By: _____  Contractor  (Authorized Signature)</p> <p>Name: <u>David Goulet</u>  Title: <u>Project Manager</u>  Date: _____</p>
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**WP-42A.2**  
**2nd Street N Pump Station**

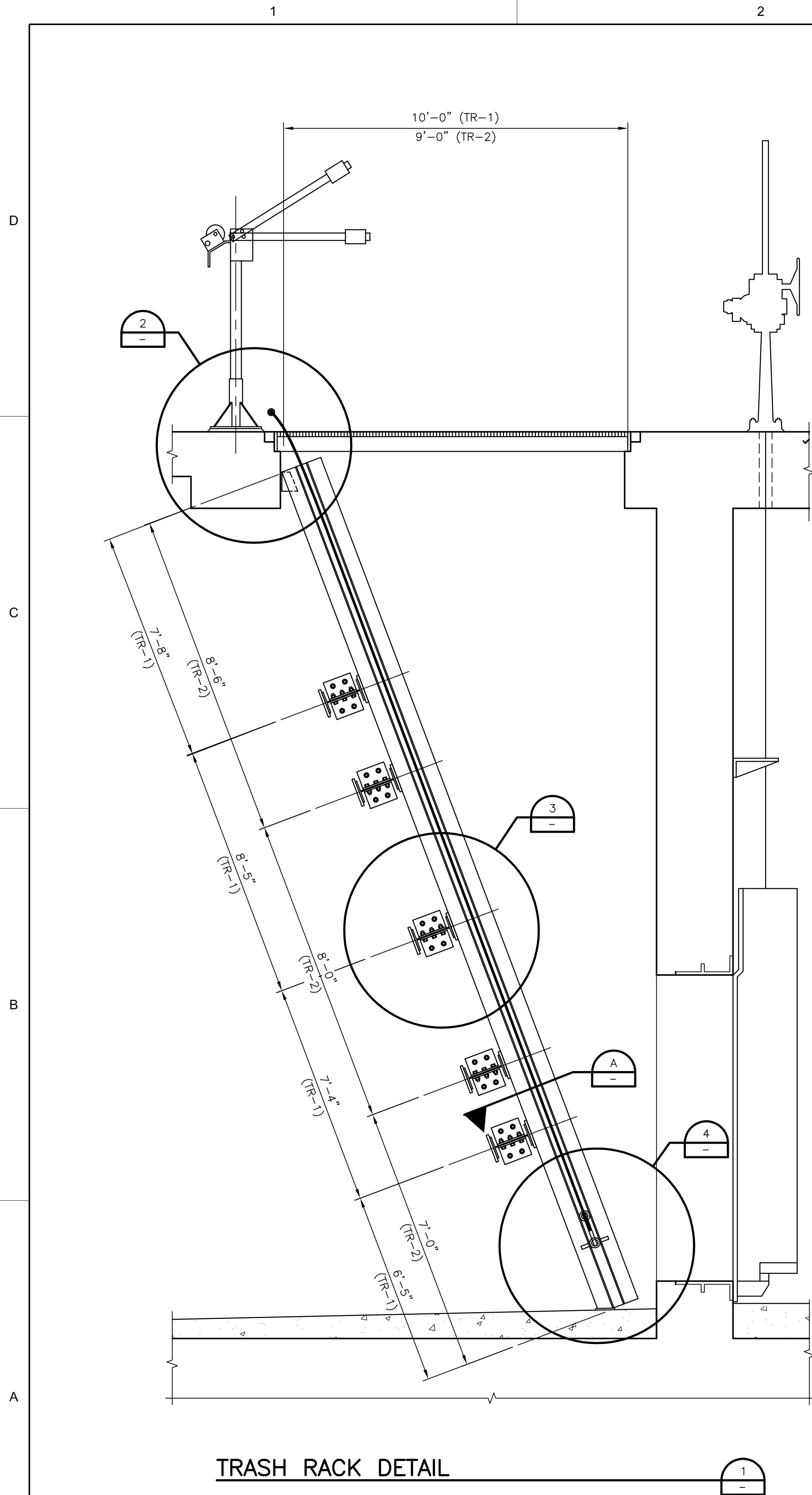
Change Order 5 Unit Price Schedule - Draft  
 DATE: 1/14/2016

**DRAFT**

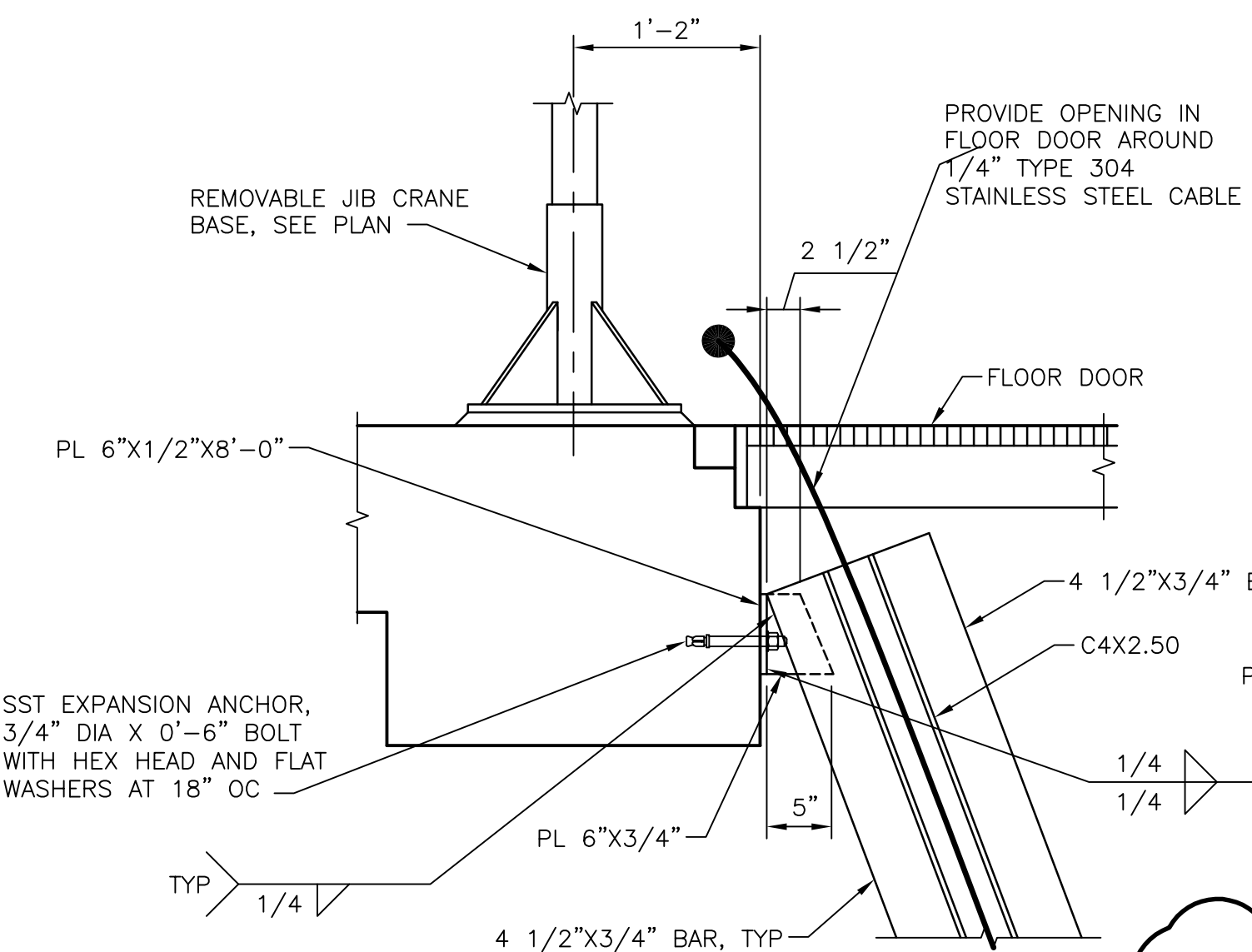


WP-42A.2 - 2nd Street N Pump Station											
ITEM	DESCRIPTION	UNIT	Current Budget (thru CO-05)			Net Change			New Budget		
			QUANTITY	UNIT PRICE	AMOUNT	QUANTITY	UNIT PRICE	AMOUNT	QUANTITY	UNIT PRICE	AMOUNT
0001	Mobilization	LS	1	400,200.00	\$ 400,200.00				1	400,200.00	\$ 400,200.00
0002	Demolition – Pavement Removal, Miscellaneous	LS	1	20,000.00	\$ 20,000.00				1	20,000.00	\$ 20,000.00
0003	Site Civil	LS	1	500.00	\$ 500.00				1	500.00	\$ 500.00
0004	Erosion and Sediment Control	LS	1	8,000.00	\$ 8,000.00				1	8,000.00	\$ 8,000.00
0005	Traffic Control	LS	1	116,920.00	\$ 116,920.00				1	116,920.00	\$ 116,920.00
0006	Fencing	LF	800	25.00	\$ 20,000.00				800	25.00	\$ 20,000.00
0007	Pump Station – Structural and Architectural	LS	1	3,645,000.00	\$ 3,645,000.00				1	3,645,000.00	\$ 3,645,000.00
0008	Stormwater Pumps and Motors	LS	1	1,300,000.00	\$ 1,300,000.00	0	\$ 1,944.14	\$ 1,944.14	1	1,301,944.14	\$ 1,301,944.14
0009	Sump Pumps	LS	1	90,000.00	\$ 90,000.00				1	90,000.00	\$ 90,000.00
0010	Trash Racks and Miscellaneous Metals	LS	1	350,000.00	\$ 350,000.00	0	\$ 7,489.51	\$ 7,489.51	1	357,489.51	\$ 357,489.51
0011	Sluice Gates and Wall Thimbles	LS	1	200,000.00	\$ 200,000.00				1	200,000.00	\$ 200,000.00
0012	F&I Floodwall Reinforced Bars - Steel	LB	13,000	2.30	\$ 29,900.00				13,000	2.30	\$ 29,900.00
0013	F&I Floodwall Reinforced Bars - Epoxy Coated Steel	LB	12,000	1.80	\$ 21,600.00				12,000	1.80	\$ 21,600.00
0014	F&I Floodwall - Structural Concrete	CY	165	1,200.00	\$ 198,000.00				165	1,200.00	\$ 198,000.00
0015	F&I Floodwall – Misc.	LS	1	50,000.00	\$ 50,000.00				1	50,000.00	\$ 50,000.00
0016	Sheetpiling	LS	1	1,125,000.00	\$ 1,125,000.00				1	1,125,000.00	\$ 1,125,000.00
0017	Switchboard SWBDA, Motor Control Center MCCA, Automatic Transfer Switch, Panel LP1	LS	1	128,000.00	\$ 128,000.00				1	128,000.00	\$ 128,000.00
0018	Electrical-Interior	LS	1	156,000.00	\$ 156,000.00				1	156,000.00	\$ 156,000.00
0019	Electrical-Exterior	LS	1	27,000.00	\$ 27,000.00				1	27,000.00	\$ 27,000.00
0020	Instrumentation and Controls	LS	1	99,000.00	\$ 99,000.00				1	99,000.00	\$ 99,000.00
0021	Programming	LS	1	5,500.00	\$ 5,500.00				1	5,500.00	\$ 5,500.00
0022	HVAC – General	LS	1	90,000.00	\$ 90,000.00				1	90,000.00	\$ 90,000.00

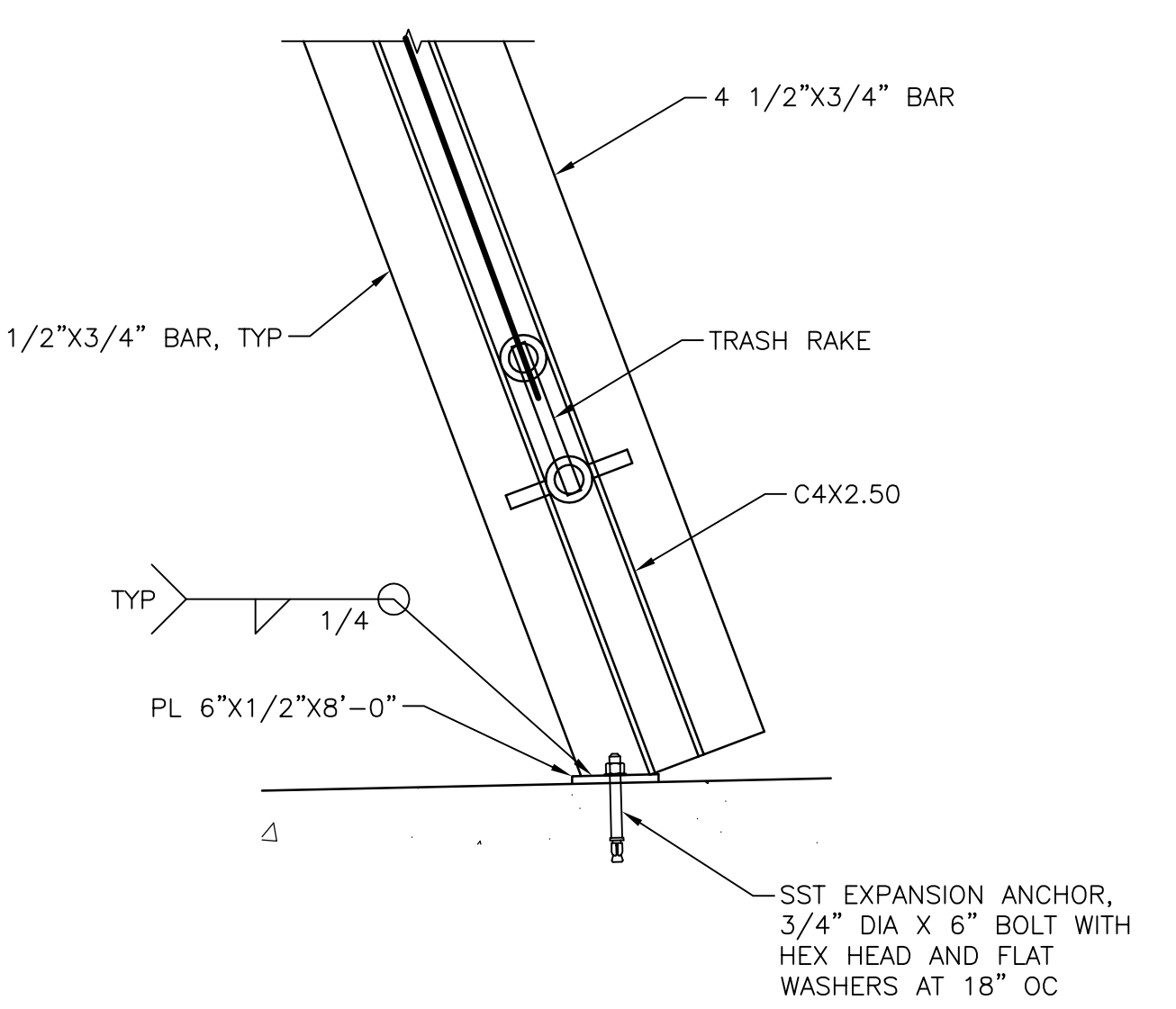
WP-42A.2 - 2nd Street N Pump Station											
ITEM	DESCRIPTION	UNIT	Current Budget (thru CO-05)			Net Change			New Budget		
			QUANTITY	UNIT PRICE	AMOUNT	QUANTITY	UNIT PRICE	AMOUNT	QUANTITY	UNIT PRICE	AMOUNT
0023	Plumbing General	LS	1	5,300.00	\$ 5,300.00				1	5,300.00	\$ 5,300.00
0024	Health and Safety	LS	1	50,000.00	\$ 50,000.00				1	50,000.00	\$ 50,000.00
0025	Remove Subsurface Concrete Structure	LS	1	7,397.00	\$ 7,397.00				1	7,397.00	\$ 7,397.00
0026	Hazardous Fill Removal and Disposal - T&M, Not to Exceed	LS	1	60,000.00	\$ 60,000.00				1	60,000.00	\$ 60,000.00
0027	Backfill Below 882'	LS	1	158,293.32	\$ 158,293.32				1	158,293.32	\$ 158,293.32
0028	Backfill Above 882'	LS	1	61,324.68	\$ 61,324.68				1	61,324.68	\$ 61,324.68
0029	Electric Unit Heater (RFI-029A)	LS	1	1,472.00	\$ 1,472.00				1	1,472.00	\$ 1,472.00
0030	Louvers (RFI-043)	LS	1	3,966.00	\$ 3,966.00				1	3,966.00	\$ 3,966.00
0031	Install Baffle Wall	LS	1	\$ 176,792.50	\$ 176,792.50				1	176,792.50	\$ 176,792.50
0032	Leave Sheeting in Place	LS	1	\$ 64,179.25	\$ 64,179.25				1	64,179.25	\$ 64,179.25
0033	Close 2nd Street North	LS	1	\$ 3,950.00	\$ 3,950.00				1	3,950.00	\$ 3,950.00
0034	Reduced Vacuum Line Size	LS	1	\$ (516.99)	\$ (516.99)				1	(516.99)	\$ (516.99)
0036	Substitute Utility Brick Veneer for Stone Veneer	LS	1	\$ (12,750.00)	\$ (12,750.00)				1	(12,750.00)	\$ (12,750.00)
0037	Cold Weather Construction	LS	1	\$ 14,831.92	\$ 14,831.92				1	14,831.92	\$ 14,831.92
0038	Warranty Extended Duration	LS	1	\$ -	\$ -	0	\$ 34,055.34	\$ 34,055.34	1	34,055.34	\$ 34,055.34
<b>WP-42A.2 - TOTAL AMOUNT</b>			<b>CURRENT BUDGET</b>		<b>\$ 8,674,859.68</b>	<b>NET CHANGE</b>		<b>\$ 43,488.99</b>	<b>NEW BUDGET</b>		<b>\$ 8,718,348.67</b>



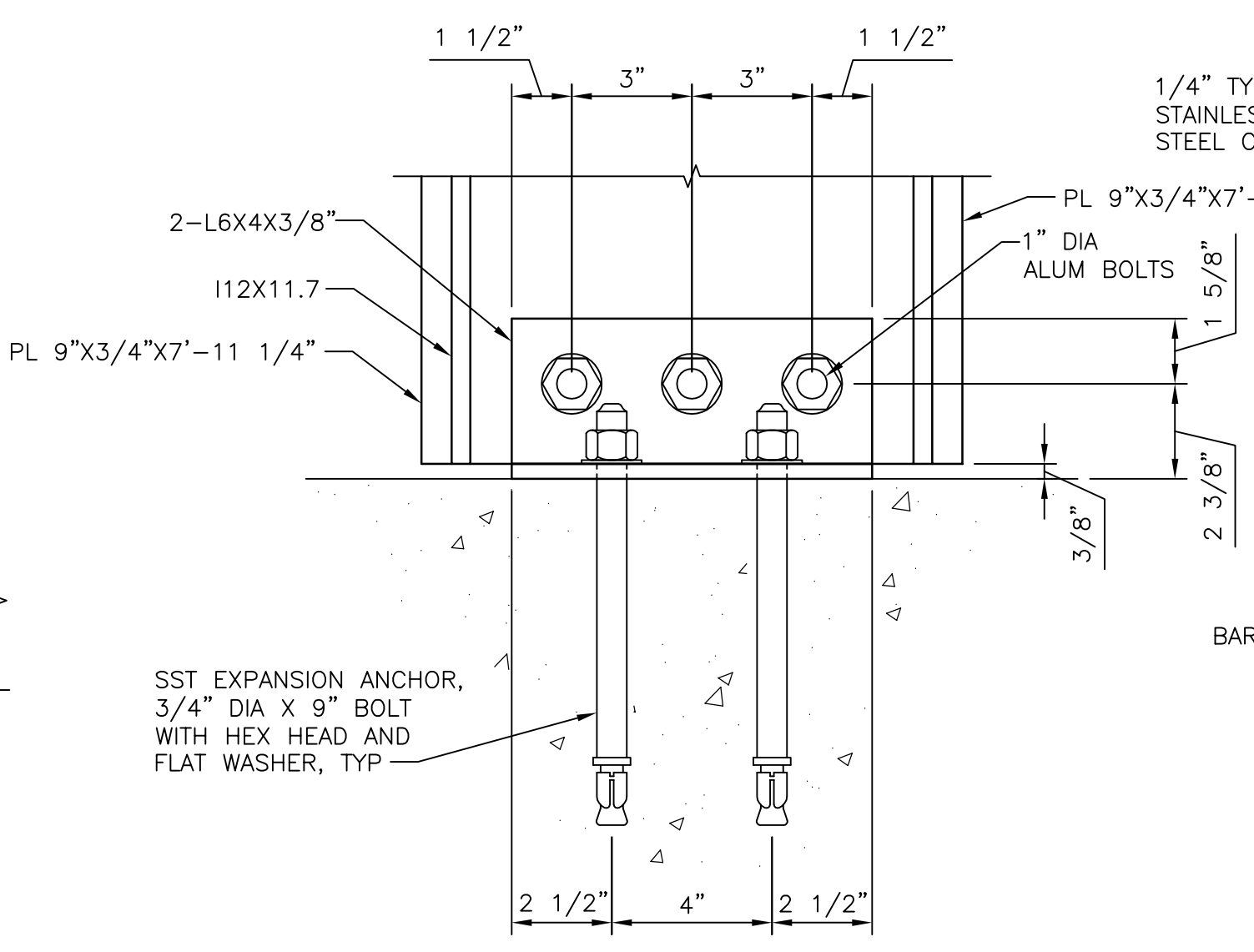
**TRASH RACK DETAIL**



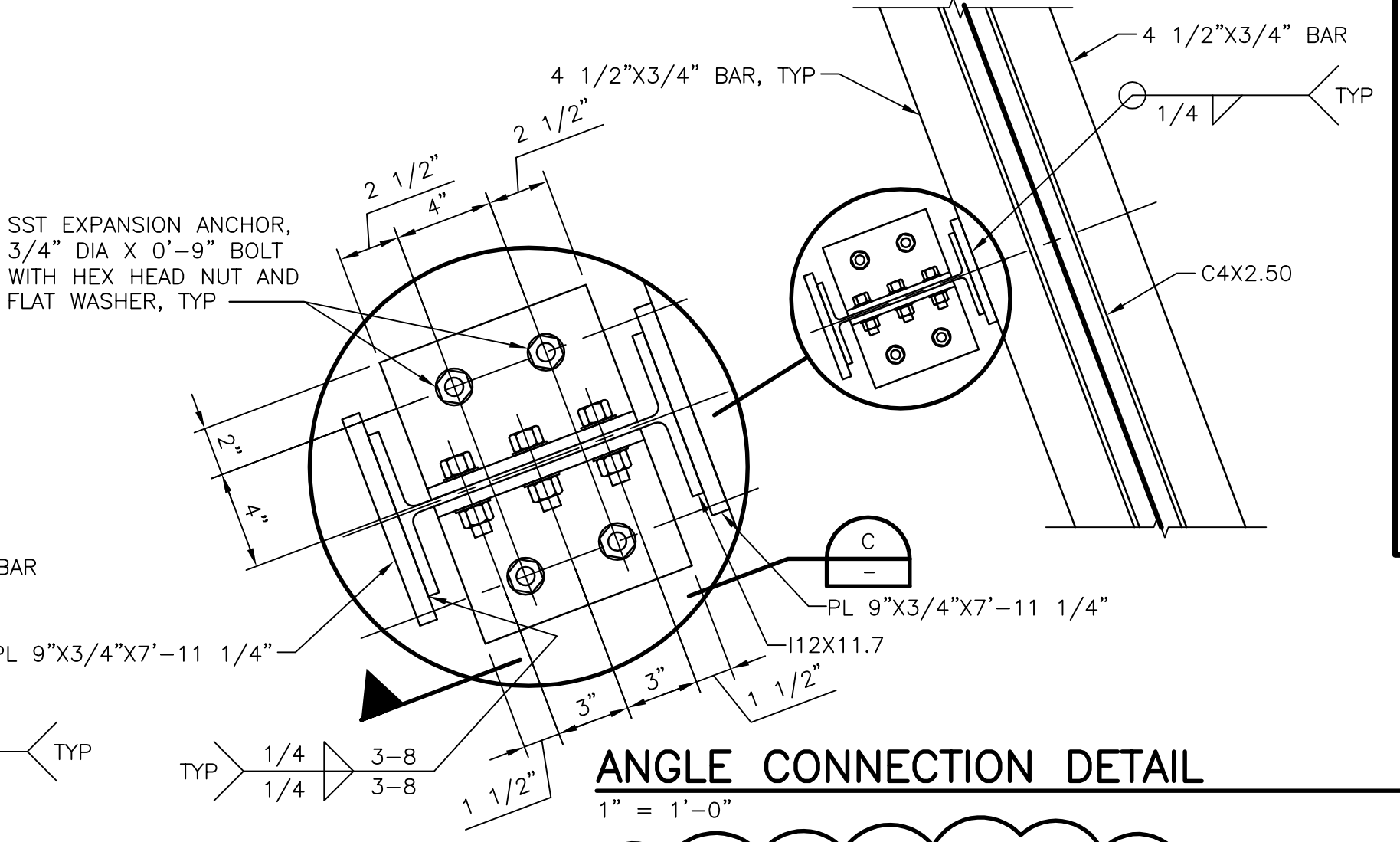
**EXPANSION ANCHOR AT BEAM DETAIL**



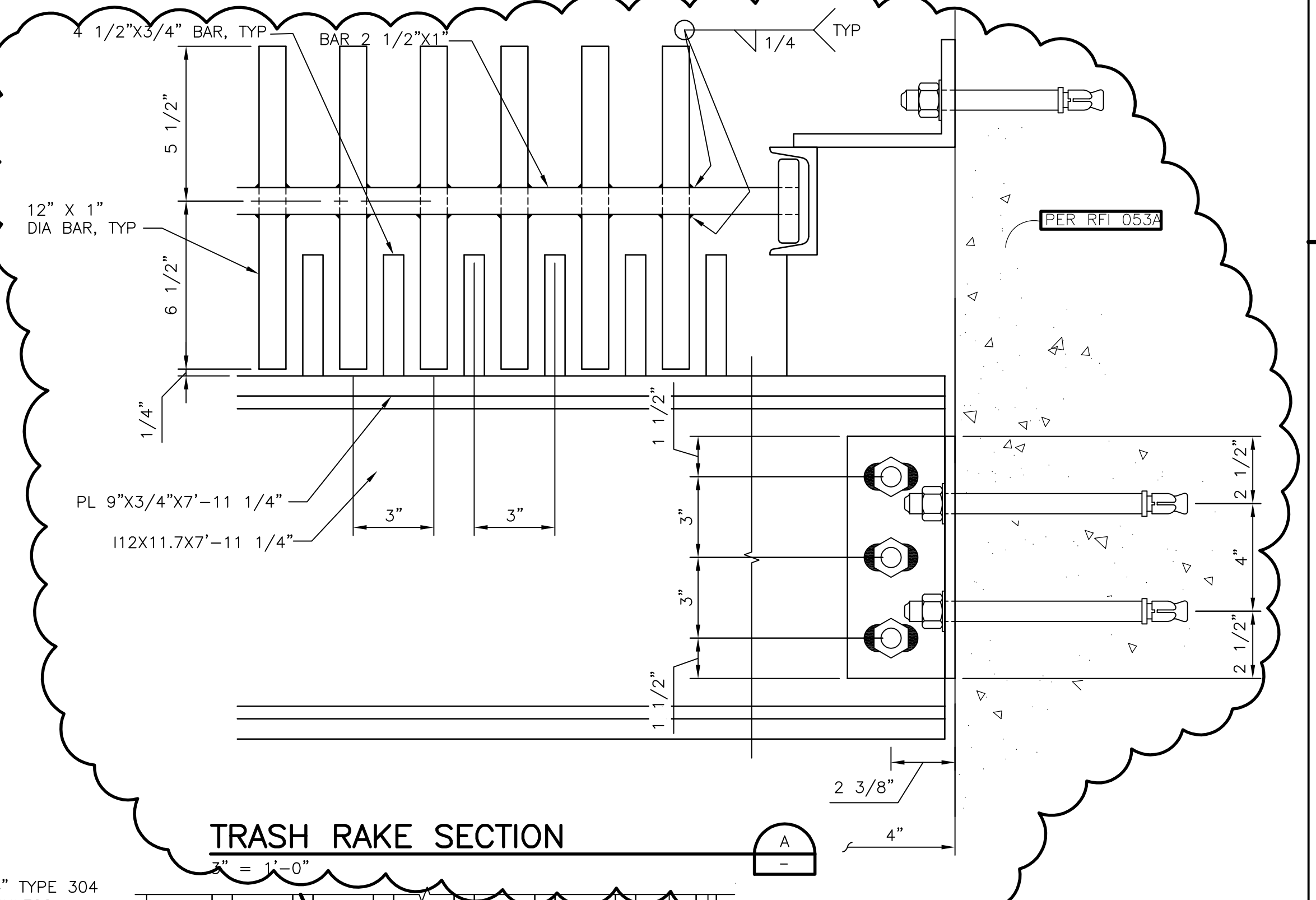
**EXPANSION ANCHOR AT FLOOR DETAIL**



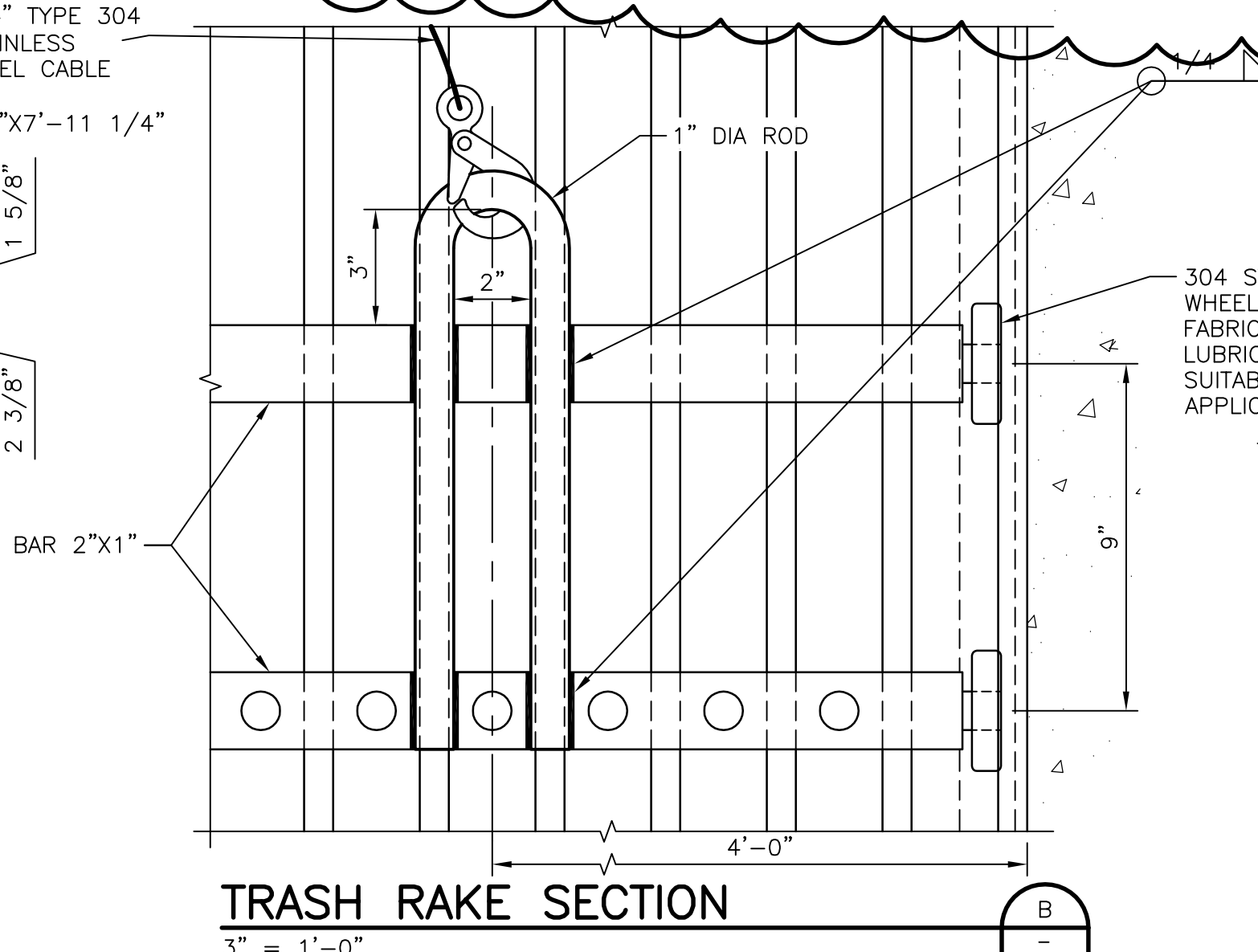
**TRASH RACK SECTION**



**ANGLE CONNECTION DETAIL**

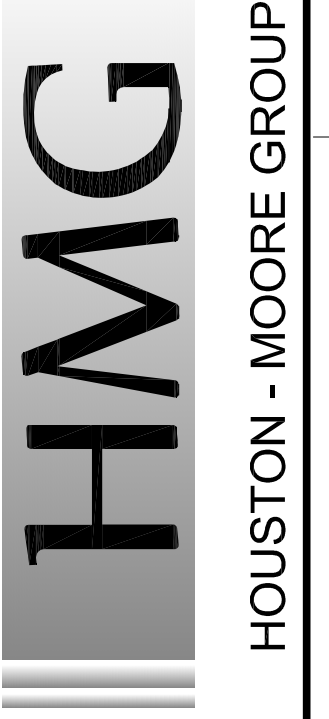


**TRASH RAKE SECTION**



**TRASH RAKE SECTION**

This document was originally issued and sealed by Kenneth T. Demmons II, Registration No. PE-8979, on 08/25/14 and the original document is stored at CH2M Hill Engineering, Inc., Fargo, N.D.

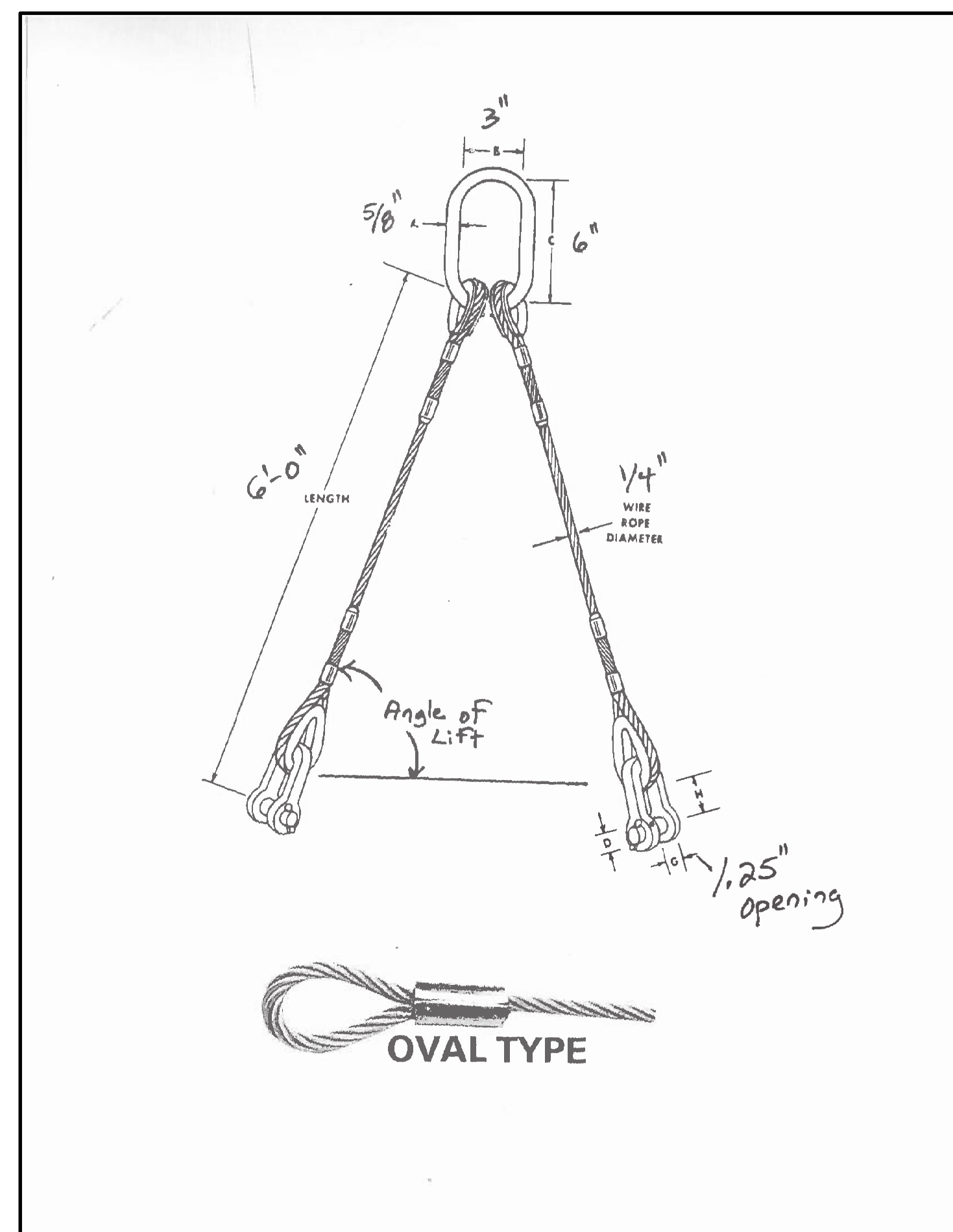


2ND STREET/DOWNTOWN - IN-TOWN LEVELS  
2ND STREET N PUMP STATION  
FARGO, NORTH DAKOTA  
WORK PACKAGE 42A.2  
PROCESS DETAILS

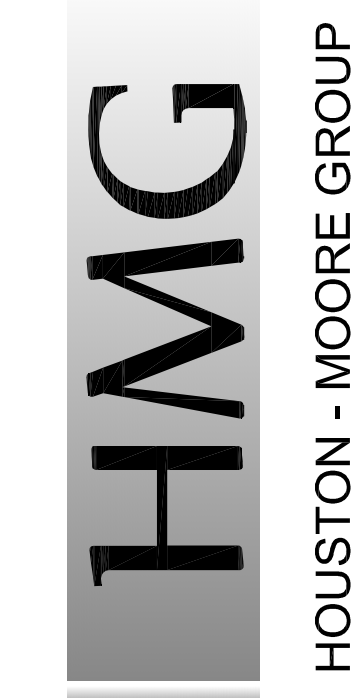
DATE:	10/9/2014
REVISED:	
REVISED:	
REVISED:	
RECORD:	
FILE NAME:	P-108.DWG
PROJECT No.	228474-164
DRAWN BY:	GAB
CHECKED BY:	EWC
PROJ. MANAGER:	KTD
PROJ. ENGINEER:	BAP

P-108

This document was originally issued and sealed by Kenneth T. Demmons II, Registration No. PE-8979, on 08/25/14 and the original document is stored at CH2M Hill Engineering, Inc., Fargo, N.D.



PER RM 069



2ND STREET/DOWNTOWN - IN-TOWN LEVELS  
 2ND STREET N PUMP STATION  
 FARGO, NORTH DAKOTA  
 WORK PACKAGE 42A.2  
 PROCESS DETAILS

DATE:	10/9/2014
REVISED:	
REVISED:	
REVISED:	
RECORD:	
FILE NAME:	P-108A.DWG
PROJECT No.	228474-164
DRAWN BY:	GAB
CHECKED BY:	EWG
PROJ. MANAGER:	KTD
PROJ. ENGINEER:	BAP

P-108A

GENERAL NOTES:

- UNLESS NOTED OTHERWISE, ALL METAL COMPONENTS FOR THE TRASH RACK, RAKE AND GUIDE RAIL SHALL BE ALUMINUM ALLOY 6061-T6 UNLESS NOTED OTHERWISE.
- ALL JIB CRANES SHALL BE 2000 POUND CAPACITY. PROVIDE THERN 5124 OR APPROVED EQUAL.
- 30 FT OF 1/4" TYPE 304 STAINLESS STEEL CABLE WITH STAINLESS STEEL EYE HOOK AND SWAGED BALL FITTING.
- FOR ALUMINUM AT CONCRETE SURFACES PROVIDE DISSIMILAR MATERIAL PROTECTION.

Your Logo Here

# CHANGE ORDER REQUEST

Page 1

Industrial Builders, Inc.  
14321- - WP42A.2 - Metro Flood/2nd St. Pump Station

DATE: 3/17/2016

PCO#: 18

**To:** Tyler Smith  
CH2M Hill Engineer's Inc  
657 2nd Ave N  
Fargo, ND 58105-5405  
**Phone:** 701-566-5470  
**Fax:**  
**Email:** tyler.smith@ch2m.com  
**CC:**

**From:** David Goulet  
Industrial Builders, Inc.  
PO Box 406  
Fargo, ND 58107-0406  
**Phone:** 701-356-9827  
**Fax:**  
**Email:** dgoulet@industrialbuilders.com

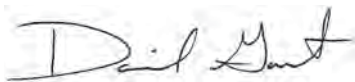
Below is the detail for our proposal to complete the following changes in contract work:

- **Warranty / Trash Rake / Valve**
  - Proposed Scope of Work: This change order request is for the extended warranty, trash rack changes, and the check valve replacement.

PCO Item	Status	Change (in Days)	Quantity	UM	Unit Price	Amount
1 : Warranty	Initiated		1.000	L S	34,055.34	34,055.34
Extends the warranty for major equipment due to the extended contract completion date.						
2 : Trash Rake / Rack	Initiated		1.000	L S	7,489.51	7,489.51
Please see attached breakdown and RFI's 053A & 069.						
3 : Check Valve Replacement	Initiated		1.000	L S	19,44.14	19,44.14
Due to clearance issues per RFI 065 IBI replaced the check valve with a new Surge Buster. This price is the difference between the two along with the restocking fee.						

Submitted By:

Approved By:



3/17/2016

David Goulet

Date

Tyler Smith  
CH2M Hill Engineer's Inc

Date

**42A2 2nd St. Pump Station**  
**Warranty Information**

Equipment	Supplier	Original Start Date	Original Warranty Length	Original Warranty End Date	Extended Warranty Duration	Extra Cost / WO markup	Final Warranty Extension Date	
Square D Material- Switch Gears	DSG	9/25/2015	12 month	9/25/2016	20 Months	\$ 4,082.40	5/3/2018	
PLC	Sweeny Controls	From Start up 06/01/2016	12 month	6/1/2017	8 Month	\$ 4,725.00	2/1/2018	
Vertical Pumps	Cascade	Delivery Date: 1/19/16	18 mths Delivered or (12 months running)	7/19/2017	30 (12)	\$ 7,500.00	7/19/18 or (12 months running)	
Vertical Motors	Tero	Delivery Date: 1/19/16	18 mths Delivered or (12 months running)	7/19/2017	30 (12)	\$ 1,625.00	7/19/18 or (12 months running)	
Vertical Motor Inspection		<i>Per warranty page a inspection shall be performed prior to start-up</i>				\$ 1,650.00		
Submersible Pumps	Electric Pump	Start Up Date: 8/10/2016	18 months	2/10/2018		\$ -	2/10/2018	
Flap & Lift Gates/Stoplog	Kudro	Delivery Date: 7/21/15	12 months	7/21/2016	<i>Willing to extend warranty at no cost pending an inspection.</i>		8/21/2017	
IBI Builder Risk Insurance	IBI			1/31/2016	12 Months	\$ 8,402.00	1/31/2017	
Unit Heater (UH-01,UH-02,UH-03)	Robert Gibb	9/15	18 mo. From ship date	4/17	6 Months	\$ 2,975.00	10/17	
Split System (Fan Coil)-FC-01	Robert Gibb	9/15	18 mo. From ship date	4/17	6 Months	\$ 2,975.00	10/17	
		<i>Note: There is a 10 yr warranty on the compressor for the Daikin Fan Coil Unit. This includes material only, not labor if needed.</i>						

Total Cost \$ 30,959.40

10% Mark up \$ 3,095.94

**Total Warranty Change Order: \$ 34,055.34**

## Trash Rack and Rake Change Order Detail

### Additional Labor

	50hr/Rate	Hrs		Total
1 Operators	\$85.23	8	\$	681.84
2 Carpenters	\$73.00	8	\$	1,168.00
2 Labors	\$58.87	8	\$	941.92
			<b>Total Labor:</b>	<b>\$ 2,791.76</b>

### Material

	Qty	Units	Price		Total
Cable & Clevis		2 EA	\$ 1,900.00	\$	3,800.00
					\$ 3,800.00
					Plus Sales Tax \$ 4,085.00
					Plus 15% Mark Up \$ <b>4,697.75</b>

**Grand Total: \$ 7,489.51**

### NOTES

- 1) Trash rake was redesigned to have two lifing lugs which added the cost of new cables and clevis
  
- 2) Trash rack was redesigned to fit inbetween the doors per RFI 053A. This will cause IBI to spend an extra day manually fastening the rack to the beam. Original design would have came complete and ready to set.



HIGH IMPORTANCE

**CONTRACTOR REQUEST FOR INFORMATION**

CONTRACTOR'S RFI NO: 053A

PROJECT: 2nd Street N. Pump Station; Fargo, North Dakota PROJECT NO: WP-42A.2

CONTRACTOR: Industrial Builders, Inc.

Clarification Requested By: Industrial Builders

Reference Drawing: Specification Section:

**Description:**

Trash Rack and Rake:  
Please see the two options for the trash rack without removing the doors and voiding the door warranties.

Prepared by David Goulet  
Date 11/20/2015

**Engineer's Response:**

Please provide Option 1 with the side closure pieces.

Engineer Owner's Representative:

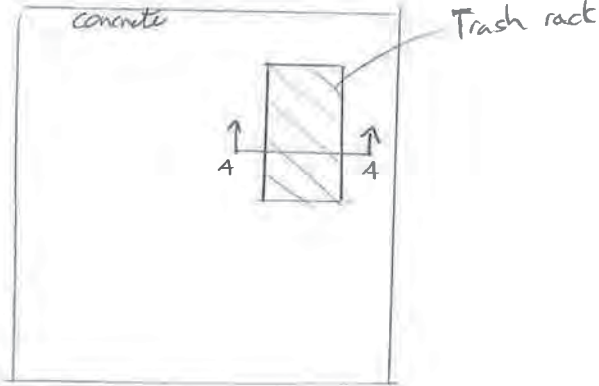
Date Date

Attachments \_\_\_\_\_

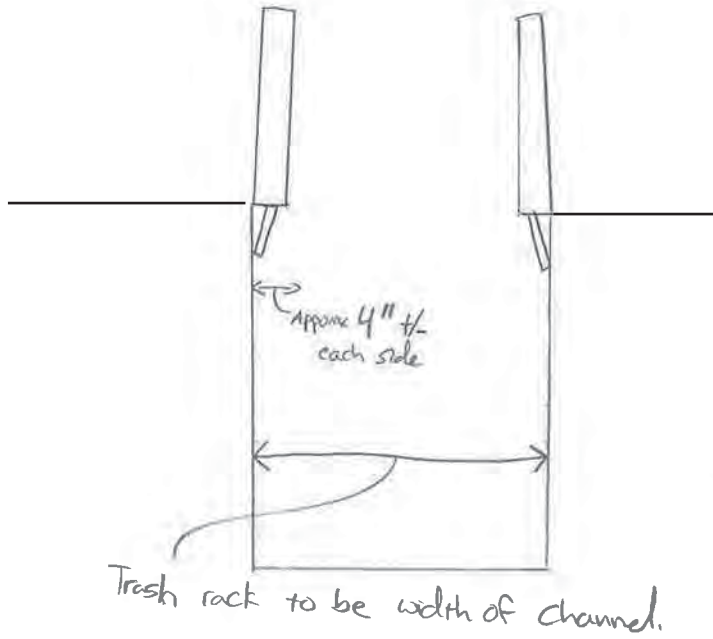


Project: RFI 053

Plan

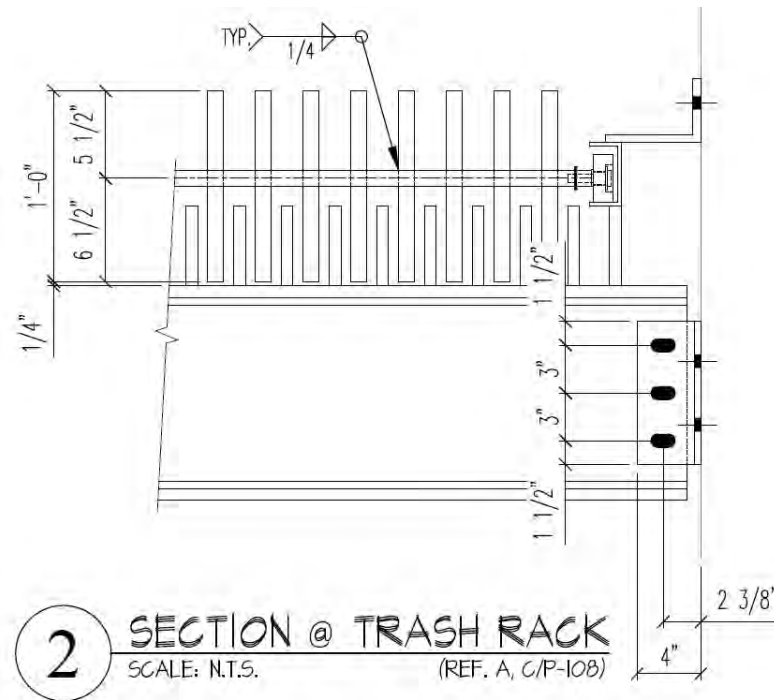


Section A-A



The **first option** is to make the trash rack as designed but shorten it to slide in between the doors. The beams would still be full length and the shortened rack would be attached with the counter sink bolts. Aluminum 6"x4"x1/2" angles would be attached to the wall to close the gap. This would allow the owner to completely pull out the trash rake for cleaning or maintenance.

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**CONTRACTOR REQUEST FOR INFORMATION**

CONTRACTOR'S RFI NO: 069

PROJECT: 2nd Street N. Pump Station; Fargo, North Dakota

PROJECT NO: WP-42A.2

CONTRACTOR: Industrial Builders, Inc.

Clarification Requested By: Industrial Builders

Reference Drawing:

Specification Section: 46 20 20

**Description:**

**Trash Rake Lifting Cables:**

Past submittals showed the cable for the davit crane and rake to be one piece connected by wire rope clips. Here is the manufactures recommendation:

Attached is a preliminary design for two (2) each trash rake lifting cables. This design eliminates the potential for kinks in the cable (caused by the lifting ring, and increases the lift angle to reduce strain at the rake lug-to-clevis connections - we elected to replace the lift hooks with clevises as the safety latches on hooks are prone to breaking which might allow the hook to become disengaged from the rake.

Please review this design and let me know how you would like us to proceed.

Regards,

George  
Superior Crane Corp.



Prepared by

David Goulet

Date 1/12/2016

**Engineer's Response:**

This appears to be acceptable however length of lifting cables needs to be coordinated with the davit crane height in position B-1/B-2 and actual installed location to allow the rake to be brought to the top of the screen.

Also a tagline with a hook and crane rope connection needs to be provided to allow lifting cables to be accessible from the surface with the rake in the lower position and the screen access hatches to be closed.

As noted in the approved Davit Crane submittal, please provide assembly drawing that shows how the complete system will function together.

Eric Cox

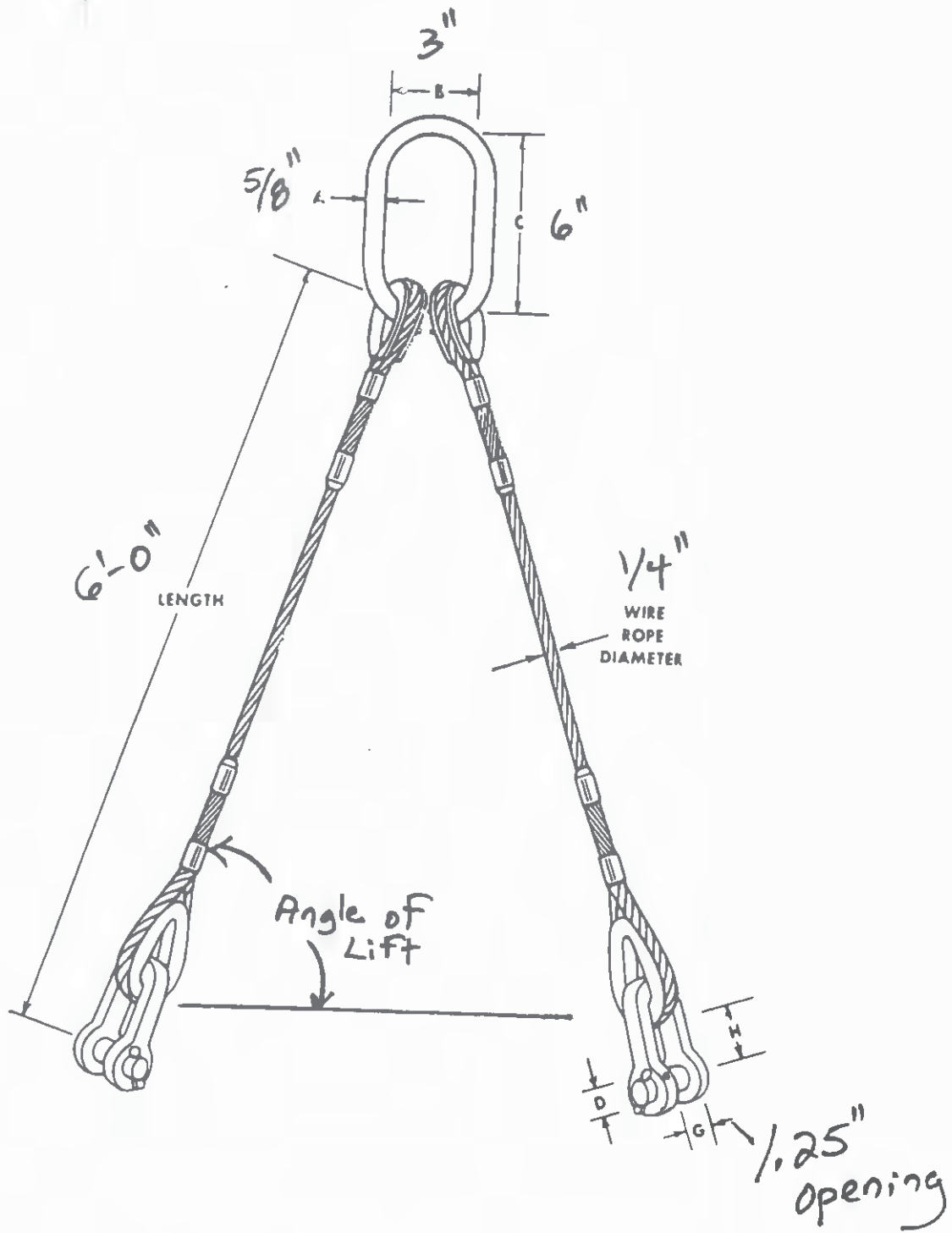
David Buck

Engineer  
1/19/2016

Owner's Representative:  
2/1/2016

Date

Date



**CONTRACTOR REQUEST FOR INFORMATION**

CONTRACTOR'S RFI NO: 065

PROJECT: 2nd Street N. Pump Station; Fargo, North Dakota

PROJECT NO: WP-42A.2

CONTRACTOR: Industrial Builders, Inc.

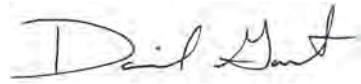
Clarification Requested By: Industrial Builders

Reference Drawing: P-104 Specification Section:

**Description:**

**Check Valve Clearance:**

The check valve on pump 7 is having clearance issues between the beam, the wall and the guide rail. With limited options IBI can push the guide rail out 4+” on the top but the rail would not be plumb and we would need to build a spacer at the top. IBI is checking with the pump supplier to see what the tolerance is in 29’. The other option is to replace the check valve with a Surge Buster, see attached specs. (Measurements still need to be verified to see if the surge buster will work).



Prepared by

David Goulet

Date 12/22/2015

**Engineer's Response:**

If guide rails can not be adjusted for the specified valve, the use of a surge buster check valve would be acceptable. Please coordinate with Owner's Representative in the field as needed prior to implementation of a surge buster.

Eric Cox

Engineer  
12/28/2015

Owner's Representative:

Date

Date

Attachments \_\_\_\_\_

WORK CHANGE DIRECTIVE

005

TO: IBI (Dave Goulet, Project Manager) PROJECT NO.: WP-42A.2  
PROJECT: 2<sup>nd</sup> Street Pump Station  
OWNER: Metro Flood Diversion Authority  
ENGINEER: Houston Moore Group  
OWNER'S REPRESENTATIVE: CH2M

**DESCRIPTION OF WORK:**

1. COMPLETION MILESTONE CHANGES

- a. February 25, 2016 previously established as the Substantial Completion date has been revised to Interim Milestone A for the Project which includes brick veneer, pump station concrete, electrical cabinets and PLCs, south floodwall and screenwall, pump installation and roofing. This change item has no cost impact.
- b. August 15, 2016 established as a new milestone for Pump Station Operation. This change item has no cost impact.
- c. October 7, 2016 established as the new Substantial Completion date on the Project. This change item has no cost impact.
- d. December 7, 2016 established as the new Final Completion date on the Project. This change item has no cost impact.

2. WARRANTY DURATION CHANGES

- a. As a result of the completion milestone changes the warranties on various pieces of equipment including the switchgear, PLC, vertical pumps, vertical motors, will be extended. In addition IBI's builder's risk insurance will also be extended. The proposed cost impact of this work is \$35,000. This number will be finalized with IBI prior to issuing a change order.

3. These change will be incorporated into future Change Order #6.

**REASON FOR CHANGE(S):**

1. HMG and CH2M determined that the transformer and permanent power lines associated with the transformer could not be installed until the floodwall excavation/installation and utilities installation occur on the 42F.1S contract. Additionally, the north floodwall, screen wall, and bollards cannot be installed under the 42A.2 contract until storm sewer structure ST-18 on the F.1S contract is completed. Due to a lack of sufficient power, the pump station will not be ready for testing until August of 2016.
2. Due to the extended contract milestones, HMG and CH2M determined that the various piece of equipment will require extended warranty to ensure warranties are still valid during the initial months of pump station operation. This equipment includes the switchgear, PLC, vertical pumps, vertical motors. Additionally IBI's Builder Risk insurance will be extended.

**ATTACHMENTS (List Supporting Documents):**

1. Warranty Information

**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:

_____	_____	_____	_____
<i>[Name], P.E.</i>	<i>Date</i>	<i>[Name]</i>	<i>Date</i>
<i>Designer of Record</i>		<i>USACE PM</i>	

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:

**CH2M**

**Metro Flood Diversion Authority**

*Owner's Representative*

*Owner*

\_\_\_\_\_  
  
 \_\_\_\_\_  
*Tyler Smith, P.E.*  
*Construction Services Manager*

\_\_\_\_\_  
 2/24/16  
 \_\_\_\_\_  
*Date*

\_\_\_\_\_  
  
 \_\_\_\_\_  
*Darrell Vanyo*  
*Board Chair*

\_\_\_\_\_  
 2-24-16  
 \_\_\_\_\_  
*Date*

- Copy: Owner  
 Designer of Record  
 USACE  
 Owner's Representative





**Technical Advisory Group Recommendation**

Meeting Date: 4/6/2016

**RECOMMENDATION FOR ACTION:**

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

**SUMMARY OF CONTRACTING ACTION:**

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

List description of Contract Action(s):

Description	Budget Estimate (\$)
<b>Landwehr Construction Inc.</b>	
<i>Change Order #1</i>	<b>87,263.59</b>
<ul style="list-style-type: none"> <li>WP-42C.2, 2nd Street/Downtown – In-Town Levees, Demolition – Administrative schedule delays, removal and cleanup of unknown asbestos containing fire doors, Xcel transformer blow out, spring pavement removal, Xcel Energy and City of Fargo utility expenses, unknown water service disconnect, and unknown asbestos abatement.</li> </ul>	

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

Original Agreement or Amendment	Budget (\$) Change	Original Project Cost	Revised Project Cost	Project Start	Project Completion	Comments
Original Contract	\$0.00	\$1,038,000.00	N/A	16-Nov-15	15-Jan-16	Contract Award recommended to lowest responsive bidder, Industrial Builders, Inc.
Change Order No. 1	\$87,263.59	\$1,038,000.00	\$1,177,151.59	17-Nov-15	19-Feb-16	Multiple scope and expense modifications

**DISCUSSION**

1. Change Order No. 1 modifies multiple scope elements to total an increase of \$87,263.59 to the Contract Price. The Change Order consists of the following items:
  - a. **Administrative Schedule Delays** – CH2M recommends adding a total of 17 working days to the Substantial Completion milestone to accommodate minor administrative delays during the award phase of the project, primarily a misunderstanding between the Owner’s Rep and Contractor over transmittal of the signed Agreement. This extension would have no negative impact to the Owner’s schedule, and the Contractor made considerable effort to meet the milestone anyway, so CH2M considers this appropriate. This is a no cost change.
  - b. **Removal and Cleanup of Unknown Asbestos Containing Fire Doors** – The contractor encountered 98 asbestos containing fire doors that had not been identified in the pre-bid asbestos survey. In addition to removal, a significant number of the doors had been damaged by firefighting personnel when they used the facility for training prior to demolition. This resulted in a need to treat the debris as asbestos containing material, which increased the abatement labor over that

of typical door removal. The total additional cost is \$37,092.06. CH2M and HMG reviewed the backup for this cost and found it appropriate considering the additional debris removal. This change also results in a 5 working day extension which was verified as appropriate based on Owner's Rep field inspection.

- c. **Xcel Transformer Blowout** – During construction, the electric utility's transformer failed and the Contractor was without power for four days until Xcel Energy installed a new one. The Contractor was paying for the power and had reasonably assumed stable availability, and therefore did not have a backup generator readily available. CH2M recommends adding 2 working days to the Substantial Completion milestone. This is a no cost change.
- d. **Spring Pavement Removal** – During the preconstruction phase, the Contractor requested leaving the pavements in place until spring to facilitate work during bad weather. The DA representative indicated this would be acceptable so CH2M approved the request. This Change Order simply formalizes this by changing the date for Final Completion to May 15, 2016 and clarifying that pavement removal is required by Final Completion instead of Substantial Completion. This is a no cost change.
- e. **Xcel Energy and City of Fargo Utility Expenses** – Additional utility expenses were incurred associated with the added scope of the asbestos containing fire doors noted above and schedule delays resulting in work being performed during colder conditions. Utility costs were calculated based on utility bills. The contractor calculated an average per diem cost associated with the utility work and applied it to 7 days. Additionally, the contractor calculated the cost during the initially anticipated construction period (October/November/December) and calculated the cost for the actual construction period (November/December/January). The difference between these two values is the added cost associated with the schedule shift. CH2M has reviewed this cost and finds it acceptable. CH2M recommends adding \$4,461.00 to the contract price for unanticipated utility expenses.
- f. **Unknown Water Service Disconnect** – A water supply line that was indicated on the plans was not indicated for removal. CH2M/HMG/City personnel requested that the contractor remove and cap this water line. The cost includes 4 hours each for two pieces of equipment and labor for a foreman, operator, and a laborer. CH2M recommends adding \$2,128.05 to the contract price as an adjustment for the additional time and materials expense.
- g. **Unknown Asbestos Abatement** – Asbestos containing material was encountered below grade in a waterproofing layer on the outside of a building foundation on February 18, 2016 leading to schedule delays and additional expenses. A proposal was prepared for both the removal and disposal of all foundation material without abatement, and abatement of asbestos prior to disposal. Disposal without abatement will cost approximately \$51,057.56 and with abatement, \$43,528.48. CH2M and HMG have reviewed both alternatives and find them both acceptable. CH2M recommends allowing the less expensive abatement and removal procedures to be completed by the final completion milestone and \$43,528.48 be added to the contract price to cover the unanticipated expenses. This change item was previously approved in WP 42C.2 Work Change Directive 001.

#### ATTACHMENT(S):

1. Work Change Directive 001

Submitted by:

John Glatzmaier, P.E.  
CH2M  
Project Manager  
Metro Flood Diversion Project

April 6, 2016

Date

Keith Berndt, Cass County Administrator  
Concur: April 6, 2016 Non-Concur: \_\_\_\_\_

April Walker, Fargo City Engineer  
Concur: April 7, 2016 Non-Concur \_\_\_\_\_

Mark Bittner, Fargo Director of Engineering  
Concur: April 7, 2016 Non-Concur: \_\_\_\_\_

Jason Benson, Cass County Engineer  
Concur: April 7, 2016 Non-Concur \_\_\_\_\_

David Overbo, Clay County Engineer  
Concur: \_\_\_\_\_ Non-Concur: \_\_\_\_\_

Robert Zimmerman, Moorhead City Engineer  
Concur: April 7, 2016 Non-Concur \_\_\_\_\_

Nathan Boerboom, DA Project Mgr.  
Concur: April 7, 2016 Non-Concur: \_\_\_\_\_



Change Order No. 01

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Date of Issuance:	<u>4/14/2016</u>	Effective Date:	<u>4/14/2016</u>
Owner:	<u>Metro Flood Diversion Authority</u>	Owner's Contract No.:	<u>WP-42C.2</u>
Owner's Representative:	<u>CH2M HILL Engineers, Inc.</u>	Owner's Representative Project No.:	<u>479407</u>
Contractor:	<u>Landwehr Construction</u>	Contractor's Project No.:	<u></u>
Engineer:	<u>Houston-Moore Group, LLC</u>	Work Package No.:	<u>WP-42C.2</u>
Project:	<u>Fargo-Moorhead Area Diversion</u>	Contract Name:	<u>2<sup>nd</sup> Street/Downtown – In-Town Levees, Demolition</u>

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

**Description:**

1. PROJECT START-UP CONTRACT TRANSMITTAL DELAY
  - a. Adjust the substantial completion milestone to accommodate delay between contract award and transmittal of final contract documents. Add 17 working days to substantial completion and final completion contract milestones.
2. ASBESTOS CONTAINING FIRE DOORS REMOVAL
  - a. Increase contract price to accommodate added scope to abate ninety eight (98) asbestos containing fire doors by adjusting line item 001 Building Demolition as shown in the attached Change Order 1 Unit Price Schedule dated 4/14/16.
  - b. Increase the contract substantial completion by five (5) working days to accommodate work by adjusting substantial and final completion.
3. XCEL TRANSFORMER BLOW-OUT
  - a. Accommodate an additional two (2) working days to the substantial completion milestone for Xcel Energy to repair a broken transformer used on-site for electricity. This is a no-cost change item.
4. SPRING PAVEMENT REMOVAL
  - a. Adjust the substantial completion milestone to exclude pavement removal by adjusting Agreement paragraph 4.02.A.1 to read as follows, "Substantial Completion shall consist of the complete building and foundation demolition and placement of associated fill material required to maintain open excavations at 1:1 slope." This is a no cost change item.
  - b. Extend the final completion milestone to May 15, 2016. This is a no cost change item.
5. XCEL ENERGY AND CITY OF FARGO UTILITY EXPENSES
  - a. Increase the Contract Price to accommodate additional utility expenses incurred during added scope work and work performed in an unanticipated season by adjusting line

item 001 Building Demolition as shown in the attached Change Order 1 Unit Price Schedule dated 4/14/16.

6. UNKNOWN WATER SERVICE DISCONNECT

- a. Increase Contract Price to accommodate added scope to cap unknown water service by adjusting line item 001 Building Demolition as shown in the attached Change Order 1 Unit Price Schedule dated 4/14/16.

7. UNKNOWN ASBESTOS ABATEMENT

- a. Increase Contract Price to accommodate abatement of unknown asbestos containing material from foundation by adjusting line item 001 Building Demolition as shown in the attached Change Order 1 Unit Price Schedule dated 4/14/16.
- b. Allow unknown asbestos abatement to be completed by the final completion milestone, May, 15, 2016.

**Attachments:**

- Change Order 1 Unit Price Schedule dated 4/14/16
- Work Change Directive 001
- Initial Landwehr Email dated 1/21/2016
- Reasonable Schedule Expectations (Attachment to 1/21/2016 Landwehr Email)
- Schedule Noting Delays (Attachment to 1/21/2016 Landwehr Email)
- CH2M Letter dated 2/17/2016 responding to Landwehr's email dated 1/21/2016
- Landwehr letter dated 3/2/2016 responding to CH2M's letter dated 2/17/2016.
- Change Proposal Dated 1/4/2016 – PR1 Unknown Asbestos Fire Doors detailing expenses of 98 asbestos containing fire doors.
- Change Proposal Dated 3/3/2016 – PR2 Unknown Asbestos Waterproofing Landfill
- Change Proposal Dated 3/3/2016 – PR2B Unknown Asbestos Waterproofing Abatement, proposal to abate foundation and dispose of materials separately.
- Change Proposal Dated 3/3/2016 – PR3 Electrical Costs
- Change Proposal Dated 3/3/2016 – PR4 Disconnect Water Service

<b>CHANGE IN CONTRACT PRICE</b>	<b>CHANGE IN CONTRACT TIMES</b> <i>[note changes in Milestones if applicable]</i>
Original Contract Price: <b>1,089,888.00</b>	Original Contract Times: Substantial Completion: <u>January 15, 2016</u> Ready for Final Payment: <u>February 15, 2016</u> days or dates
[ <del>Increase</del> ] [ <del>Decrease</del> ] from previously approved Change Orders <b>0.00</b>	[ <del>Increase</del> ] [ <del>Decrease</del> ] from previously approved Change Orders Substantial Completion: <u>January 15, 2016</u> Ready for Final Payment: <u>February 15, 2016</u> days or dates
Contract Price prior to this Change Order: <b>1,089,888.00</b>	Contract Times prior to this Change Order: Substantial Completion: <u>January 15, 2016</u> Ready for Final Payment: <u>February 15, 2016</u> days or dates
[Increase] [ <del>Decrease</del> ] of this Change Order: <b>87,263.59</b>	[Increase] [ <del>Decrease</del> ] of this Change Order: Substantial Completion: <u>35 Days</u> Ready for Final Payment: <u>May 15, 2016</u> days or dates
Contract Price incorporating this Change Order: <b>1,177,151.59</b>	Contract Times with all approved Change Orders: Substantial Completion: <u>February 18, 2016</u> Ready for Final Payment: <u>May 15, 2016</u> days or dates

<p style="text-align: center;"><b>RECOMMENDED:</b></p> <p>By: _____  Owner's Representative  (Authorized Signature)</p> <p>Name: <u>Tyler Smith, P.E.</u>  Title: <u>Construction Manager</u>  Date: _____</p>	<p style="text-align: center;"><b>ACCEPTED:</b></p> <p>By: _____  Owner  (Authorized Signature)</p> <p>Name: <u>Darrell Vanyo</u>  Title: <u>Chairman</u>  Date: _____</p>	<p style="text-align: center;"><b>ACCEPTED:</b></p> <p>By: _____  Contractor  (Authorized Signature)</p> <p>Name: <u>Nick Linnemann</u>  Title: <u>Project Manager</u>  Date: _____</p>
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**WP-42C.2  
Park East Demolition**

Change Order 1 Unit Price Schedule - Draft  
DATE: 4/14/2016

**DRAFT**



WP-42C.2 - Park East Demolition											
ITEM	DESCRIPTION	UNIT	Current Budget			Net Change			New Budget		
			QUANTITY	UNIT PRICE	AMOUNT	QUANTITY	UNIT PRICE	AMOUNT	QUANTITY	UNIT PRICE	AMOUNT
0001	Building Demolition	LS	1	1,038,000.00	\$ 1,038,000.00	0	\$ 87,263.59	\$ 87,263.59	1	1,125,263.59	\$ 1,125,263.59
0002	Removal Pavement All Thickness All Types	SY	3134	4.00	\$ 12,536.00				3134	4.00	\$ 12,536.00
0003	Remove Curb and Gutter	LF	476	2.00	\$ 952.00				476	2.00	\$ 952.00
0004	Temporary Erosion Control	LS	1	9,500.00	\$ 9,500.00				1	9,500.00	\$ 9,500.00
0005	Traffic Control	LF	1	1,200.00	\$ 1,200.00				1	1,200.00	\$ 1,200.00
0006	Temporary Fence - Safety	LS	1	20,200.00	\$ 20,200.00				1	20,200.00	\$ 20,200.00
0007	Over Excavation as Directed By Owner's Representative	CY	500	15.00	\$ 7,500.00				500	15.00	\$ 7,500.00
<b>WP-42A.2 - TOTAL AMOUNT</b>			<b>CURRENT BUDGET</b>		<b>\$ 1,089,888.00</b>	<b>NET CHANGE</b>		<b>\$ 87,263.59</b>	<b>NEW BUDGET</b>		<b>\$ 1,177,151.59</b>





WORK CHANGE DIRECTIVE

001

TO: Landwehr Construction, Inc. PROJECT NO.: WP-42C.2  
 PROJECT: Park East Demolition  
 OWNER: Metro Flood Diversion Authority  
 ENGINEER: Houston Moore Group  
 OWNER'S REPRESENTATIVE: CH2M

**DESCRIPTION OF WORK:**

The following change items are authorized and will be included in an upcoming change order. The updated Unit Price Schedule will be included with the Change Order.

1. UNKNOWN ASBESTOS ABATEMENT - \$43,582.48
  - a. Increase Contract Price to accommodate abatement of unknown asbestos containing material from foundation by adjusting line item 001 Building Demolition.
  - b. Allow unknown asbestos abatement to be completed by the final completion milestone, May, 15, 2016.

**REASON FOR CHANGE(S):**

1. UNKNOWN ASBESTOS ABATEMENT – additional scope to abate previously unidentified asbestos materials

**ATTACHMENTS (List Supporting Documents):**

1. PR2B Unknown Asbestos Waterproofing Abatement, proposal to abate foundation and dispose of materials separately.

**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:

_____ [Name], 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

  
Ty Smith, P.E.  
Senior Construction Manager

3/31/16  
Date

Owner

  
Darrell Vanya  
Board Chair

3/31/16  
Date

Copy: Owner  
Designer of Record  
USACE  
Owner's Representative



**LANDWEHR CONSTRUCTION INC.**

PO Box 1086 St. Cloud, MN 56302  
 Phone(320) 252-1494 Fax (320) 252-2380

Date: March 1, 2016

Proposal Request # 2 B

To: Ty Smith - CH2M

Project: WP-42C.2 Park East Demolition

Description of work performed:

Excavate and expose basement walls to allow asbestos abatement contractor to remove ACM waterproofing

Item	Hrs/Unit	Rate	Total
<b>Equipment</b>			
360 Volvo Exc - Demo Package	3.0	185.00	\$ 555.00
		-	\$ -
LCI Markup on Equipment	15%	555.00	\$ 83.25
Total Equipment			\$ 638.25
<b>Labor</b>			
Foreman-Operator	3.0	87.00	\$ 261.00
		-	\$ -
LCI Markup on Labor	15%	261.00	\$ 39.15
Total Labor			\$ 300.15
<b>Subcontractors/Materials</b>			
Dennis Environmental Operations See attached	1.0	40,000.00	\$ 40,000.00
		-	\$ -
		-	\$ -
		-	\$ -
LCI Markup on Subs/Mat'ls	5%	40,000.00	\$ 2,000.00
Total Subs/Mat'ls			\$ 42,000.00
<b>Misc lump sum pricing</b>			
		-	\$ -
		-	\$ -
		-	\$ -
Total Misc lump sum			\$ -
<b>Bond</b>	1.5%	42,938.40	\$ 644.08
Total Bond			\$ 644.08
<b>TOTAL LUMP SUM PRICE</b>			<b>\$ 43,582.48</b>

Notes: The suspect asbestos containing material was discovered at 7am Thursday February 18, 2016.  
 The contract time adjustment will run from discovery until PR2 work is completed  
 Equipment and labor hours listed above represent time in excess of anticipated excavation required in contract work.

Contract time adjustment: See note above.

**DENNIS ENVIRONMENTAL OPERATIONS**

**551 Topping Street  
St. Paul, MN 55103  
(651) 488-4835 Phone  
(651) 488-4624 Fax**

**PROPOSAL**

March 1, 2116

Mr. Nick Linnemann  
Landwehr Construction, Inc.  
836 South 33<sup>rd</sup> Street,  
St. Cloud MN 56302

Project: Asbestos Abatement  
Park East

Dennis Environmental Operations will provide the following abatement services:

Labor per hour (8 hour minimum) based on 3 man crew	\$ 330.00 per hr.
Material cost per load	\$ 85.00 per load
Drive Time	\$ 80.00 per hr.

Cost to abate in place \$36,000.00

Price based on wall surfaces being free of clay/soil work to be performed in accordance to ND rules and NESAP

Prices are valid for 30 days.

*plus \$4,000 for  
removing clay/soil*

Price includes disposal, OSHA sampling, labor and materials. All work will be performed in accordance with OSHA, state and federal regulations. We carry industry standard insurance; any additional insurance requests may result in additional charges.

Submitted,  
Rich Dennis, VP

\_\_\_\_\_  
Accepted

**From:** Nick Linnemann [<mailto:Nick@LANDWEHRCONSTRUCTION.COM>]  
**Sent:** Thursday, January 21, 2016 4:20 PM  
**To:** Smith, Tyler/FMH <[Tyler.Smith@CH2M.com](mailto:Tyler.Smith@CH2M.com)>; Buck, David/FMH <[David.Buck@ch2m.com](mailto:David.Buck@ch2m.com)>  
**Cc:** Mike Elbert <[melbert@LANDWEHRCONSTRUCTION.COM](mailto:melbert@LANDWEHRCONSTRUCTION.COM)>; Dennis Environmental <[info@dennisenvironmental.com](mailto:info@dennisenvironmental.com)>; Mike Lohrman <[Mike@LANDWEHRCONSTRUCTION.COM](mailto:Mike@LANDWEHRCONSTRUCTION.COM)>  
**Subject:** Project Delay

Ty and David,

For our discussion regarding delays, I have attached two schedules.

The first attachment is a schedule that could have reasonably been anticipated at bid time. Items to note:

- To achieve a tight timeline for completion, both Owner and Contractor need to turn contract documents quickly. A reasonable expectation is that contracts would be sent 10/15/15.
- The attached reasonable timeline schedule allows:
  - Two weeks to turn around submittals
  - The actual eight weeks it will take to abate the asbestos
  - Project completion per contract timelines

The second attachment is a schedule reflective of actual circumstances. Items to note:

- This schedule reflects the contract documents being turned over on 11/16/15 (33 calendar days later than reasonably anticipated).
- The actual eight weeks it will take to abate the asbestos
- Time delays associated with asbestos work (12 working days)

The last item to note that cannot yet be quantified is electrical/heating costs.

Under a reasonably anticipated schedule, Landwehr would have incurred electrical/heating expensed from 10/15/15 until 12/10/15 (57 days).

Under the delayed contract timeline, Landwehr is incurring electrical/heating costs from 11/16/15 until 1/29/16 (75 days). The shifted timeline caused additional power usage not only due to timeline increases, but colder winter weather.

Again, these electrical/heating costs cannot be determined until final electrical bills are received.

Thank you for reviewing the information that impacted project completion dates.

Nick

ID	Task Mode	Task Name	Duration	Start	Finish	Timeline																
						October	10/4	10/11	10/18	10/25	November	11/1	11/8	11/15	11/22	December	11/29	12/6	12/13	12/20	12/27	January
1		<b>Project Preparation</b>	<b>41 days</b>	<b>Thu 10/15/15</b>	<b>Thu 12/10/15</b>	[Gantt bar from 10/15 to 12/10]																
2		Signed Contracts	1 day	Thu 10/15/15	Thu 10/15/15	[Gantt bar at 10/15]																
3		NDDH Notification	1 day	Thu 10/15/15	Thu 10/15/15	[Gantt bar at 10/15]																
4		Permits	1 day	Mon 10/19/15	Mon 10/19/15	[Gantt bar at 10/19]																
5		Fencing	2 days	Wed 10/21/15	Thu 10/22/15	[Gantt bar from 10/21 to 10/22]																
6		Submittals	7 days	Thu 10/15/15	Fri 10/23/15	[Gantt bar from 10/15 to 10/23]																
7		Cut Building 3 Power	1 day	Fri 11/20/15	Fri 11/20/15	[Gantt bar at 11/20]																
8		Cut Buildings 1/5 Power	1 day	Thu 12/10/15	Thu 12/10/15	[Gantt bar at 12/10]																
9		<b>Disconnect Water &amp; Sewer Service</b>	<b>43 days</b>	<b>Mon 10/26/15</b>	<b>Wed 12/23/15</b>	[Gantt bar from 10/26 to 12/23]																
10		Garage 3	1 day	Mon 10/26/15	Mon 10/26/15	[Gantt bar at 10/26]																
11		Garage 5	2 days	Mon 10/26/15	Tue 10/27/15	[Gantt bar from 10/26 to 10/27]																
12		Garage 1	1 day	Wed 12/23/15	Wed 12/23/15	[Gantt bar at 12/23]																
13		Apt Building	1 day	Fri 12/11/15	Fri 12/11/15	[Gantt bar at 12/11]																
14		Apartment Sewers	1 day	Sat 12/12/15	Sat 12/12/15	[Gantt bar at 12/12]																
15		<b>Demolition</b>	<b>56 days</b>	<b>Wed 10/28/15</b>	<b>Wed 1/13/16</b>	[Gantt bar from 10/28 to 1/13]																
16		Demo Garage 3	5 days	Wed 10/28/15	Tue 11/3/15	[Gantt bar from 10/28 to 11/3]																
17		Demo Garage 5	5 days	Wed 10/28/15	Tue 11/3/15	[Gantt bar from 10/28 to 11/3]																
18		Building 3	15 days	Mon 11/23/15	Fri 12/11/15	[Gantt bar from 11/23 to 12/11]																
19		Building 1	23 days	Mon 12/14/15	Wed 1/13/16	[Gantt bar from 12/14 to 1/13]																
20		Building 5	23 days	Mon 12/14/15	Wed 1/13/16	[Gantt bar from 12/14 to 1/13]																
21		Garage 1	4 days	Mon 12/28/15	Thu 12/31/15	[Gantt bar from 12/28 to 12/31]																
22		Remove Pavement		Spring 2016		[Gantt bar from Spring 2016 to Spring 2016]																
23		<b>Abestos Abatement</b>	<b>42 days?</b>	<b>Mon 10/26/15</b>	<b>Tue 12/22/15</b>	[Gantt bar from 10/26 to 12/22]																
24		<b>Building 3</b>	7 days?	Mon 12/14/15	Tue 12/22/15	[Gantt bar from 12/14 to 12/22]																
25		SetUp	4 days	Mon 10/26/15	Thu 10/29/15	[Gantt bar from 10/26 to 10/29]																
26		4th Floor	4 days	Mon 11/2/15	Thu 11/5/15	[Gantt bar from 11/2 to 11/5]																
27		3rd Floor	4 days	Mon 11/9/15	Thu 11/12/15	[Gantt bar from 11/9 to 11/12]																
28		2nd Floor	4 days	Mon 11/9/15	Thu 11/12/15	[Gantt bar from 11/9 to 11/12]																
29		1st Floor	4 days	Mon 11/16/15	Thu 11/19/15	[Gantt bar from 11/16 to 11/19]																
30		<b>Building 1 &amp; 5</b>	<b>14 days</b>	<b>Mon 11/23/15</b>	<b>Thu 12/10/15</b>	[Gantt bar from 11/23 to 12/10]																
31		4th Floor	6 days	Mon 11/23/15	Mon 11/30/15	[Gantt bar from 11/23 to 11/30]																
32		3rd Floor	4 days	Tue 12/1/15	Fri 12/4/15	[Gantt bar from 12/1 to 12/4]																
33		2nd Floor	4 days	Tue 12/1/15	Fri 12/4/15	[Gantt bar from 12/1 to 12/4]																
34		1st Floor	4 days	Mon 12/7/15	Thu 12/10/15	[Gantt bar from 12/7 to 12/10]																

Project: In Town Levees, 2nd St  
Date: Thu 1/21/16

	Task		Project Summary		Manual Task		Start-only		Deadline	
	Split		Inactive Task		Duration-only		Finish-only		Progress	
	Milestone		Inactive Milestone		Manual Summary Rollup		External Tasks		Manual Progress	
	Summary		Inactive Summary		Manual Summary		External Milestone			

ID	Task Mode	Task Name	Duration	Start	Finish	November			December			January			February			March	
						B	M	E	B	M	E	B	M	E	B	M	E	B	M
1		<b>Project Preparation</b>	<b>55 days</b>	<b>Mon 11/16/15</b>	<b>Fri 1/29/16</b>														
2		Signed Contracts	1 day	Mon 11/16/15	Mon 11/16/15														
3		NDDH Notification	1 day	Mon 11/16/15	Mon 11/16/15														
4		Permits	1 day	Wed 11/18/15	Wed 11/18/15														
5		Fencing	2 days	Mon 11/23/15	Tue 11/24/15														
6		Submittals	10 days	Mon 11/16/15	Fri 11/27/15														
7		Cut Building 3 Power	1 day	Thu 12/24/15	Thu 12/24/15														
8		Cut Buildings 1/5 Power	1 day	Fri 1/29/16	Fri 1/29/16														
9		<b>Disconnect Water &amp; Sewer Service</b>	<b>35 days</b>	<b>Wed 12/16/15</b>	<b>Tue 2/2/16</b>														
10		Garage 3	2 days	Wed 12/16/15	Thu 12/17/15														
11		Garage 5	2 days	Wed 12/16/15	Thu 12/17/15														
12		Garage 1	2 days	Wed 12/16/15	Thu 12/17/15														
13		Apt Building	1 day	Mon 2/1/16	Mon 2/1/16														
14		Apartment Sewers	1 day	Tue 2/2/16	Tue 2/2/16														
15		<b>Demolition</b>	<b>52 days</b>	<b>Mon 12/21/15</b>	<b>Tue 3/1/16</b>														
16		Demo Garage 3	4 days	Mon 12/21/15	Thu 12/24/15														
17		Demo Garage 5	4 days	Mon 12/28/15	Thu 12/31/15														
18		Building 3	8 days	Mon 1/4/16	Wed 1/13/16														
19		Building 1	22 days	Mon 2/1/16	Tue 3/1/16														
20		Building 5	22 days	Mon 2/1/16	Tue 3/1/16														
21		Garage 1	5 days	Mon 2/15/16	Fri 2/19/16														
22		Remove Pavement		Spring 2016															
23		<b>Abestos Abatement</b>	<b>39 days</b>	<b>Mon 11/30/15</b>	<b>Thu 1/21/16</b>														
24		<b>Building 3</b>	<b>19 days</b>	<b>Mon 11/30/15</b>	<b>Thu 12/24/15</b>														
25		SetUp	4 days	Mon 11/30/15	Thu 12/3/15														
26		4th Floor	4 days	Mon 12/7/15	Thu 12/10/15														
27		3rd Floor	4 days	Mon 12/14/15	Thu 12/17/15														
28		2nd Floor	4 days	Mon 12/14/15	Thu 12/17/15														
29		1st Floor	4 days	Mon 12/21/15	Thu 12/24/15														
30		<b>Building 1 &amp; 5</b>	<b>19 days</b>	<b>Mon 12/28/15</b>	<b>Thu 1/21/16</b>														
31		4th Floor	4 days	Mon 12/28/15	Thu 12/31/15														
32		3rd Floor	4 days	Mon 1/4/16	Thu 1/7/16														
33		2nd Floor	4 days	Mon 1/11/16	Thu 1/14/16														
34		1st Floor	4 days	Mon 1/18/16	Thu 1/21/16														
35		<b>Extra Asbestos Time Delay</b>	<b>27 days</b>	<b>Mon 12/7/15</b>	<b>Tue 1/12/16</b>														
36		Fire Doors	4 days	Mon 12/7/15	Thu 12/10/15														
37		TerraCon Incorrect Finals #1	3 days	Tue 12/15/15	Thu 12/17/15														
38		TerraCon Incorrect Finals #2	1 day	Mon 12/21/15	Mon 12/21/15														

Project: In Town Levees, 2nd St  
Date: Thu 1/21/16

Task		Project Summary		Manual Task		Start-only		Deadline	
Split		Inactive Task		Duration-only		Finish-only		Progress	
Milestone		Inactive Milestone		Manual Summary Rollup		External Tasks		Manual Progress	
Summary		Inactive Summary		Manual Summary		External Milestone			

ID	Task Mode	Task Name	Duration	Start	Finish	November			December			January			February			March	
						B	M	E	B	M	E	B	M	E	B	M	E	B	M
39		TerraCon Shipping Issue #1	1 day	Mon 12/28/15	Mon 12/28/15														
40		TerraCon Shipping Issue #2	1 day	Sat 1/9/16	Sat 1/9/16														
41		Xcel Transformer Issue	2 days	Mon 1/11/16	Tue 1/12/16														

Project: In Town Levees, 2nd St Date: Thu 1/21/16	Task		Project Summary		Manual Task		Start-only		Deadline	
	Split		Inactive Task		Duration-only		Finish-only		Progress	
	Milestone		Inactive Milestone		Manual Summary Rollup		External Tasks		Manual Progress	
	Summary		Inactive Summary		Manual Summary		External Milestone			





**Fargo Office**  
 520 Main Avenue  
 Suite 601  
 Fargo ND 58103  
 Tel 701-566-5470

February 17, 2016

Landwehr Construction  
 Attention: Nick Linnemann, Estimator/Project Manager  
 P.O. Box 1086  
 St. Cloud, MN 56302

Subject: WP42C.2 Park East Demolition – Delay Claim Response

Dear Mr. Linnemann:

We received your email and the associated schedule figures on January 21, 2016 outlining Landwehr’s schedule delay and cost claims on the Park East Demolition Project located at 1 2<sup>nd</sup> St South in Fargo. Based on the information you provided the Owner’s Representative (CH2M) has the following comments and proposed resolutions as discussed below.

**COST AND DELAY CLAIM COMMENTS AND PROPOSED RESOLUTIONS**

Delays Due to Contract Transmittal at Project Start-Up

Landwehr claimed 33 days of Owner Caused delay due to the timing of contract document transmittal. The following are dates when various relevant activities occurred:

<i>Notice of Award:</i>	October 16, 2015
<i>CH2M Received Bonds and Insurance from Landwehr:</i>	October 23, 2015
<i>CH2M notified Landwehr Bonds and Insurance did not meet specification:</i>	October 26, 2015
<i>Landwehr sent updated bonds and insurance:</i>	October 28, 2016
<i>CH2M sent final contract documents:</i>	November 16, 2015

Delays through October 28, 2016 are not owner incurred delays, but the responsibility of Landwehr. CH2M could not transmit final contract documents until the proper bonds and insurance were received. CH2M acknowledges that there were Owner incurred delay between October 28 and November 16. The contract timeline for that period is two days. As such CH2M agrees to 17 days of delay for this claim.

**Proposed Resolution:** 17 calendar day extension of substantial completion and final completion milestones

### Asbestos Doors Cost Impact and Schedule Delay

On January 4<sup>th</sup> Landwehr submitted a cost change proposal for the removal of 98 asbestos containing fire doors of \$37,092.06 (Approximately \$355.15 per door with a Landwehr Mark-Up of 15%) and 9 calendar days of work. CH2M and HMG personnel have compared this to RSMeans cost data and expect the cost to be approximately \$225 per door. Potential sources of cost inflation include cost to dispose of the door waste and double accounting for profit and overhead (materials/labor costs and labor/profit percent of lump sum). Also, per General Conditions Article 11, the contractor is entitled to a 5% mark-up on all sub-contractor costs rather than 15%. Additionally, the cost back-up from Dennis Environmental Operations indicates that 40 hours of work were required to complete this task. Given the above information, CH2M proposes a revised cost of \$23,152.50 (\$225 per door, 98 doors and 5% mark-up) and 5 calendar days.

**Proposed Resolution:** \$23,125.50 cost increase and 5 day extension to the substantial and final completion dates

### Xcel Transformer Blow-Out

The Xcel Energy transformer that Dennis Environmental Operations (DEO) used for power on-site blew out on January 9, 2016. As such, DEO did not have power on Monday to conduct abatement activities. Xcel Energy installed a new transformer on January 12 at 1:00 PM. It is the opinion of CH2M that this event constitutes an unforeseeable delay in progress and such delay will be granted.

**Proposed Resolution:** 2 calendar day extension of substantial and final completion dates

### Differing Asbestos Abatement Clearance Sampling Air Levels

In Landwehr's January 21<sup>st</sup> cost claims email, Landwehr requested 4 days of calendar delay due to differing air levels between the Contractor's Private Qualified Professional (PQP) Trio Environmental, and the Owner's Representative abatement monitoring firm, Terracon consultants. Per contract specification 02 82 16.00 paragraph 3.2.4 if there is a difference between the PQP and Owner's Representative air monitoring results, the Owner's Representative will decide which air levels will predominate. The Owner's Representative and Terracon decided to utilize the more conservative results, as such no schedule delay will be granted for this claim.

**Proposed Resolution:** No delay granted

### Air Monitoring Laboratory Results Schedule Delays

Landwehr requested 2 days due to Terracon receiving air monitoring results one day late each on Monday December 28<sup>th</sup> and Saturday January 9, 2016. Based on construction field notes Dennis Environmental was the only organization affected by this change and had other work to complete and therefore did not affect project progress.

**Proposed Resolution:** No delay granted

### Xcel Energy and City of Fargo Utility Expenses

Landwehr requested that cost for a portion of the utilities be paid for by the owner due to delays in the contract timeline. Additional utility costs may be paid by the Owner for delays which caused an increase

in the scope of work; however, additional costs will not be granted for delays that simply shifted the timeline. If additional utility costs caused by colder winter weather is claimed by Landwehr due to delays resulting in a timeline shift, further substantiation is required. Utility costs will not be granted for the two days of delay caused by the transformer blow-out because the electricity was not functioning. As such the Owner and CH2M will accommodate 5 days worth of utility cost due to the added scope of work related to the asbestos containing fire doors removal. CH2M requests that Landwehr provide a cost change proposal for this claim.

**Proposed Resolution:** 5 days worth of utility cost (Landwehr to provide a cost proposal)

#### **TOTAL PROPOSED CLAIM RESOLUTION**

Please see the attached cost and schedule break-down for additional details. If Landwehr agrees to the above proposed resolutions please notify CH2M in writing and the proposed resolutions will be incorporated into the contract via a change order per General Conditions Article 11. Please note this letter does not constitute a change to the contract documents. If Landwehr does not agree with the abovementioned resolutions further substantiation is required. If Landwehr does not provide substantiation within a reasonable timeframe after transmittal of this letter, the issues will be closed per General Condition Article 17. Please feel free to contact me at (208) 771-1686 or [tyler.smith@ch2m.com](mailto:tyler.smith@ch2m.com) for questions regarding this letter.

Sincerely,

A handwritten signature in black ink, appearing to read "Tyler Smith", with a long horizontal flourish extending to the right.

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

Attachment: Cost/Schedule Claims Back-Up

cc: Martin Nicholson/CH2M  
Nathan Boerboom/City of Fargo  
Cassie McNames/HMG

**Cost/Schedule Claims Back-Up  
Park East Demolition - WP 42C2**

<b>SCHEDULE</b>			
<b>Description</b>	<b>Schedule Claim</b>	<b>Proposed Schedule Claim Resolution</b>	<b>Comment</b>
Contract Transmittal at Project Start-Up	33	17	See Below for Date Details
Asbestos Containing Fire Doors	9	5	
Transformer Blow-Out	2	2	
	Total	24	

<b>Milestone</b>	<b>Date</b>	<b>Comment</b>
Actual Abatement Start	11/16/2015	
Actual Abatement Completion	1/29/2016	(75 calendar days after start)
Contract Substantial Completion	1/15/2016	
Contract Final Completion	2/15/2016	
Anticipated Substantial Completion	3/1/2016	From Landwehr Schedule 1/28/16
Anticipated Final Completion	4/1/2016	Assumed from Landwehr Schedule 1/28/16
Proposed Substantial Completion	2/8/2016	January 15 plus 24 days
Proposed Final Completion	3/10/2016	February 15 plus 24 days

<b>COST</b>			
<b>Description</b>	<b>Cost Claim</b>	<b>Proposed Cost Claim Resolution</b>	<b>Comment</b>
Asbestos Doors	37092.06	\$ 23,152.50	98 Doors x \$225/door + 5% Mark-Up
Xcel Energy and City of Fargo Utilities	5 Days worth of utility cost		Landwehr to submit change request
	Net	\$ 1,152.50	
	Initial Contract Cost	\$ 1,089,888.00	
	Proposed Contract Cost	\$ 1,091,040.50	



March 2, 2016

Ch2M

Attention: Ty Smith, Construction Manager  
520 Main Avenue  
Suite 601  
Fargo, ND 58103

Subject: WP42C.2 Park East Demolition – Delay Claim Response

Dear Mr. Smith:

Landwehr Construction, Inc. (LCI) received your letter dated February 17, 2016 outlining Ch2M's position regarding delays on the Park East Demolition Project. Landwehr Construction, Inc.'s (LCI) responses are as follows:

Delays Due to Contract Execution

The Owner, as the writer of the contract, needs to clearly outline project timeline expectations. By choosing only to list a completion date, the Owner created an atmosphere in which the Contractor had to interpret timelines required to achieve the Owners extremely aggressive completion date. LCI anticipated the Owner to initiate contract documents by October 5<sup>th</sup>. Adding 10 days to execute contracts, a start date of October 15<sup>th</sup> was anticipated.

Due to LCI's bidding plan, LCI stands by its request for a 33 calendar day extension of substantial and final completion milestones due to contract execution delays.

Asbestos Doors Cost Impact and Schedule Delay

Mark Up Issues- The cost change proposal submitted by LCI on January 4, 2016, for the unknown asbestos containing fire doors was marked up for our subcontractors work by 5%. Your notation of a fifteen percent markup is incorrect.

Asbestos Fire Door Cost Issues – From our research, RS Means does not list a cost for abatement of asbestos containing fire doors. If this information is available, please forward the data.

The cost change amount submitted by LCI's asbestos abatement subcontractor included cleanup of asbestos released when the ACM fire doors were damaged.



DEO stands by their original cost change request.

LCI is in agreement with Ch2M that 5 working days were required to complete abatement of the unknown asbestos containing fire doors. However, since we are working on calendar days, a full seven days should be added to the contract timeline.

LCI proposes a 7 calendar day extension of substantial and final completion dates due to the unknown ACM fire doors.

#### Xcel Transformer Blow-Out

The transformer blowout occurred on January 9<sup>th</sup> and was restored on January 12<sup>th</sup>. Since we are working on calendar days, all four days should be added to the contract timeline.

LCI proposes a 4 calendar day extension of substantial and final completion dates due to the Xcel transformer failure.

#### Xcel Energy and City of Fargo Utility Expenses

LCI will submit a substantiated cost change request for seven days of utility usage costs associated with the delays caused by the ACM fire doors.

#### Additional Project Cost Issues

##### Asbestos Waterproofing –

On February 18<sup>th</sup>, 2016 LCI informed Ch2M of suspect asbestos containing waterproofing on concrete foundation walls. On February 19<sup>th</sup> the suspect material was confirmed to be asbestos containing.

LCI submitted pricing options on March 1, 2016 for review and approval.

##### Disconnection of unknown water service-

An unknown water service was discovered and disconnected. This unknown water service provided water for the fire suppression system in Garage 3. This service had to be disconnected per the City of Fargo's request before demolition could begin.

A cost change proposal will be submitted for this service disconnection.

Substantial Completion

LCI crews achieved substantial completion on February 19<sup>th</sup>. The exception to this is the asbestos containing concrete for which delay time has not yet been determined.

Given that the Owner accepted concrete pavement removal to be completed after frost is out of the ground in the spring, are there really any damages due to the contract timelines? The work was performed consistently and efficiently. At the end of the day, how has the Owner been damaged by the actual project timeline?

Sincerely,

A handwritten signature in black ink, appearing to read "Nick Linnemann". The signature is fluid and cursive, with a large initial "N" and "L".

Nick Linnemann  
Landwehr Construction, Inc.



**LANDWEHR CONSTRUCTION INC.**

**PO Box 1086 St. Cloud, MN 56302  
Phone(320) 252-1494 Fax (320) 252-2380**

**Date: January 4, 2015**

**Proposal Request # 1**

**To: Ty Smith - CH2M**

**Project: WP-42C.2 Park East Demolition**

**Description of work performed:**

**Asbestos abatement of 98 unknown asbestos containing fire doors discovered in the Park East apartment complex**

<b>Item</b>	<b>Hrs/Unit</b>	<b>Rate</b>	<b>Total</b>
<b>Equipment</b>			
LCI Markup on Equipment	15%	-	\$ -
		-	\$ -
		Total Equipment	\$ -
<b>Labor</b>			
LCI Markup on Labor	15%	-	\$ -
		-	\$ -
		Total Labor	\$ -
<b>Subcontractors/Materials</b>			
Dennis Environmental Operations	98.0	355.14	\$ 34,803.72
See attached		-	\$ -
Electric Costs for heat per week If electric cost is passed onto LCI	1.3		
LCI Markup on Subs/Mat'ls	5%	34,803.72	\$ 1,740.19
		Total Subs/Mat'ls	\$ 36,543.91
<b>Misc lump sum pricing</b>			
		-	\$ -
		-	\$ -
		-	\$ -
		Total Misc lump sum	\$ -
<b>Bond</b>			
	1.5%	36,543.91	\$ 548.16
		Total Bond	\$ 548.16
<b>Grand Total</b>			<b><u>\$ 37,092.06</u></b>

**Notes:** The asbestos abatement subcontractors attached pricing is based upon the 88 unknown asbestos containing fire doors they r  
The unit price of \$355.14 is derived from the cost of the 88 unknown asbestos containing fire doors handled. As of today, tl  
expects to handle a total of 98 unknown asbestos containing fire doors in the complex. If more or less asbestos containing  
the total price will have to be adjusted.

The electrical costs, if incurred by Landwehr will have to be added onto this change order request. The amount is unknown to  
until the electrical bill is received.

**Contract time adjustment:** Nine (9) days





**LANDWEHR CONSTRUCTION INC.**

PO Box 1086 St. Cloud, MN 56302  
 Phone(320) 252-1494 Fax (320) 252-2380

Date: March 2, 2016

Proposal Request # 3

To: Ty Smith - CH2M

Project: WP-42C.2 Park East Demolition

Description of work performed:

Electrical Costs incurred due to:  
 contract delays and unknown asbestos  
 containing fire doors

Item	Hrs/Unit	Rate	Total
Equipment	-	-	\$ -
	-	-	\$ -
	-	-	\$ -
	-	-	\$ -
	-	-	\$ -
LCI Markup on Equipment	15%	-	\$ -
Total Equipment			\$ -
Labor	-	-	\$ -
	-	-	\$ -
LCI Markup on Labor	15%	-	\$ -
Total Labor			\$ -
<b>Subcontractors/Materials</b>			
Xcel Energy - See attached			
Fire Doors - Days	7.0	333.92	\$ 2,337.44
Contract timeline shift	1.0	1,848.49	\$ 1,848.49
	-	-	\$ -
LCI Markup on Subs/Mat'ls	5%	4,185.93	\$ 209.30
Total Subs/Mat'ls			\$ 4,395.23
<b>Misc lump sum pricing</b>			
			\$ -
			\$ -
			\$ -
Total Misc lump sum			\$ -
Bond	1.5%	4,395.23	\$ 65.93
Total Bond			\$ 65.93
<b>TOTAL LUMP SUM PRICE</b>			<b>\$ 4,461.15</b>

Notes:

Contract time adjustment:

Fire Door utility costs			
		days	cost per day
November Xcel Bill	10937	33	\$ 331.42
December Xcel Bill	11438	34	\$ 336.41
Fire Door abatement period			
30-Nov 17-Jan			
Xcel bill during abatement		days	daily cost
	30-Nov 14-Dec	14	\$ 4,639.94
	14-Dec 17-Jan	34	\$ 11,438.00
		48	\$ 16,077.94
<b>\$ 334.96 Avg cost per day during abatement of fire doors</b>			

Actual Electrical Costs						
			days in cycle	Cost per day	Cost per building	Cost per building per day
9-Oct	11-Nov	10973	33	\$ 332.52	3 \$ 3,657.67	\$ 110.84
11-Nov	14-Dec	10937	33	\$ 331.42	3 \$ 3,645.67	\$ 110.47
14-Dec	17-Jan	11438	34	\$ 336.41	2 \$ 5,719.00	\$ 168.21
17-Jan	27-Jan	2859	10	\$ 285.90	2 \$ 1,429.50	\$ 142.95
As is						
Abate #3	16-Nov	30-Dec	44		# of bldgs \$/day per bldg	
					28 3 \$ 110.84	\$ 9,310.42
					16 2 \$ 110.47	\$ 3,535.19
Abate 1/5	30-Dec	27-Jan	28			
					18 2 \$ 168.21	\$ 6,055.41
					10 2 \$ 142.95	\$ 2,859.00
			72		72	\$21,760.03
<b>\$ 1,848.49 Additional Cost Incurred</b>						

Electrical costs if contracts executed per LCI Anticipated Bid Schedule						
				Cost per day	Cost per building	Cost per building per day
9-Oct	11-Nov	10973	33	\$ 332.52	3 \$ 3,657.67	\$ 110.84
11-Nov	14-Dec	10937	33	\$ 331.42	3 \$ 3,645.67	\$ 110.47
14-Dec	17-Jan	11438	34	\$ 336.41	2 \$ 5,719.00	\$ 168.21
17-Jan	27-Jan	2859	10	\$ 285.90	2 \$ 1,429.50	\$ 142.95
Time to cut to 2 buildings						
	16-Nov	14-Dec		28 days		
	15-Oct	12-Nov		28 days		
Should Be						
Abate #3	15-Oct	28-Nov	44		# of bldgs \$/day per bldg	
					27 3 \$ 110.84	\$ 8,977.91
					1 3 \$ 110.47	\$ 331.42
					16 2 \$ 110.47	\$ 3,535.19
Abate 1/5	28-Nov	26-Dec	28			
					16 2 \$ 110.47	\$ 3,535.19
					2 2 \$ 168.21	\$ 672.82
					10 2 \$ 142.95	\$ 2,859.00
					72	\$19,911.54



MAILING ADDRESS	ACCOUNT NUMBER	DUE DATE
CASS COUNTY JOINT WATER RESOUR 1201 MAIN AVE W WEST FARGO ND 58078-1301	51-0011081425-7	12/31/2015
	STATEMENT NUMBER	STATEMENT DATE
	482977486	12/15/2015
		AMOUNT DUE
		\$21,908.90

**QUESTIONS ABOUT YOUR BILL?**

See our website: [xcelenergy.com](http://xcelenergy.com)  
 Email us at: [Customerservice@xcelenergy.com](mailto:Customerservice@xcelenergy.com)  
 Please Call: 1-800-481-4700  
 Hearing Impaired: 1-800-895-4949  
 Fax: 1-800-311-0050  
 Or write us at: XCEL ENERGY  
 PO BOX 8  
 EAU CLAIRE WI 54702-0008

**ACCOUNT BALANCE**

Previous Balance	As of 11/11 - Oct Bill	\$10,972.75
No Payments Received		\$0.00
Balance Forward		<b>\$10,972.75</b>
Current Charges	Nov	\$10,936.15
<b>Amount Due</b>		<b>\$21,908.90</b>

**PREMISES SUMMARY**

PREMISES NUMBER	PREMISES IDENTIFIER	PREMISES DESCRIPTOR	CURRENT BILL
302408166	1 2ND ST S UNIT GAS	GAS	\$31.08
302548813	1 2ND ST S	ELECTRIC	\$10,905.07
<b>Total</b>			<b>\$10,936.15</b>

006056 1/2



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ACCOUNT NUMBER	DUE DATE	AMOUNT DUE	AMOUNT ENCLOSED
51-0011081425-7	12/31/2015	\$21,908.90	

To avoid a late pay charge of 1% of the unpaid balance, payment of total amount must be received by due date.  
 Make your check payable to XCEL ENERGY

DECEMBER						
S	M	T	W	T	F	S
		1	2	3	4	5
6	7	8	9	10	11	12
13	14	15	16	17	18	19
20	21	22	23	24	25	26
27	28	29	30	31		

MB 01 006056 22999 B 27 C



CASS COUNTY JOINT WATER RESOUR  
 1201 MAIN AVE W  
 WEST FARGO ND 58078-1301



XCEL ENERGY  
 P.O. BOX 9477  
 MPLS MN 55484-9477





SERVICE ADDRESS	ACCOUNT NUMBER	DUE DATE	
LANDWEHER CONSTRUCTION ELECTRIC 1 2ND ST S FARGO, ND 58103	51-0011143996-9	02/02/2016	
	STATEMENT NUMBER	STATEMENT DATE	AMOUNT DUE
	486739605	01/18/2016	\$11,437.95

DAILY AVERAGES	Last Year	This Year
Temperature	15° F	12° F
Electricity kWh	0.0	3894.1
Electricity Cost	\$0.00	\$335.96

**SUMMARY OF CURRENT CHARGES** (detailed charges begin on page 2)

Electricity Service	12/14/15 - 01/17/16	132400 kWh	\$11,407.35
Non-Recurring Charges / Credits			\$15.30
<b>Current Charges</b>			<b>\$11,422.65</b>

**QUESTIONS ABOUT YOUR BILL?**

See our website: [xcelenergy.com](http://xcelenergy.com)  
 Email us at: [Customerservice@xcelenergy.com](mailto:Customerservice@xcelenergy.com)  
 Please Call: 1-800-481-4700  
 Hearing Impaired: 1-800-895-4949  
 Fax: 1-800-311-0050  
 Or write us at: XCEL ENERGY  
 PO BOX 8  
 EAU CLAIRE WI 54702-0008

**ACCOUNT BALANCE**

Previous Balance	As of 12/14	\$15.30
No Payments Received		\$0.00
Balance Forward		\$15.30
Current Charges		\$11,422.65
<b>Amount Due</b>	<b>DEC</b>	<b>\$11,437.95</b>

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ACCOUNT NUMBER	DUE DATE	AMOUNT DUE	AMOUNT ENCLOSED
51-0011143996-9	02/02/2016	\$11,437.95	

To avoid a late pay charge of 1% of the unpaid balance, payment of total amount must be received by due date.  
 Make your check payable to XCEL ENERGY

FEBRUARY						
S	M	T	W	T	F	S
	1	2	3	4	5	6
7	8	9	10	11	12	13
14	15	16	17	18	19	20
21	22	23	24	25	26	27
28	29					

AB 01 002382 59520 B 13 A



LANDWEHER CONSTRUCTION  
 846 33RD ST S  
 SAINT CLOUD MN 56301-9610



XCEL ENERGY  
 P.O. BOX 9477  
 MPLS MN 55484-9477



NICK  
NORTH HORN STATES POWER COMPANY

SERVICE ADDRESS	ACCOUNT NUMBER	DUE DATE	
LANDWEHER CONSTRUCTION ELECTRIC 1 2ND ST S FARGO, ND 58103	51-0011143996-9	02/11/2016	
	STATEMENT NUMBER	STATEMENT DATE	AMOUNT DUE
	487917640	01/27/2016	\$14,296.56

DAILY AVERAGES	Last Year	This Year
Temperature	30° F	15° F
Electricity kWh	0.0	4040.0
Electricity Cost	\$0.00	\$285.86

**SUMMARY OF CURRENT CHARGES** (detailed charges begin on page 2)

Electricity Service	01/17/16 - 01/27/16	40400 kWh	\$2,858.61
<b>Current Charges</b>			<b>\$2,858.61</b>

**QUESTIONS ABOUT YOUR BILL?**

See our website: [xcelenergy.com](http://xcelenergy.com)  
 Email us at: [Customerservice@xcelenergy.com](mailto:Customerservice@xcelenergy.com)  
 Please Call: 1-800-481-4700  
 Hearing Impaired: 1-800-895-4949  
 Fax: 1-800-311-0050  
 Or write us at: XCEL ENERGY  
 PO BOX 8  
 EAU CLAIRE WI 54702-0008

**ACCOUNT BALANCE**

Previous Balance	As of 01/17	\$11,437.95
No Payments Received		\$0.00
Balance Forward		<b>\$11,437.95</b>
Current Charges	<i>JANUARY</i>	\$2,858.61
<b>Amount Due</b>		<b>\$14,296.56</b>

Convenience at your service - Pay your bills electronically-fast and easy with Electronic Funds Transfer. Call us at 1-800-481-4700 or visit us at [www.xcelenergy.com](http://www.xcelenergy.com).

FEB 2 2016

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ACCOUNT NUMBER	DUE DATE	AMOUNT DUE	AMOUNT ENCLOSED
51-0011143996-9	02/11/2016	\$14,296.56	

To avoid a late pay charge of 1% of the unpaid balance, payment of total amount must be received by due date.  
 Make your check payable to XCEL ENERGY

FEBRUARY						
S	M	T	W	T	F	S
	1	2	3	4	5	6
7	8	9	10	11	12	13
14	15	16	17	18	19	20
21	22	23	24	25	26	27
28	29					

AV 01 035227 69550B144 A\*\*5DGT



LANDWEHER CONSTRUCTION  
 846 33RD ST S  
 SAINT CLOUD MN 56301-9610



XCEL ENERGY  
 P.O. BOX 9477  
 MPLS MN 55484-9477



**LANDWEHR CONSTRUCTION INC.**

PO Box 1086 St. Cloud, MN 56302  
 Phone(320) 252-1494 Fax (320) 252-2380

Date: March 2, 2016

Proposal Request # 4

To: Ty Smith - CH2M

Project: WP-42C.2 Park East Demolition

Description of work performed:

**Disconnection of unknown water service  
 near garage 3**

Item	Hrs/Unit	Rate	Total
<b>Equipment</b>			
300 Komatsu Exc-Demo Package	4.0	185.00	\$ 740.00
Bobcat Skidsteer	4.0	53.00	\$ 212.00
-	-	-	\$ -
-	-	-	\$ -
LCI Markup on Equipment	15%	952.00	\$ 142.80
Total Equipment			\$ 1,094.80
<b>Labor</b>			
Foreman	4.0	83.00	\$ 332.00
Operator	4.0	80.00	\$ 320.00
Laborers	4.0	63.00	\$ 252.00
LCI Markup on Labor	15%	652.00	\$ 97.80
Total Labor			\$ 1,001.80
<b>Subcontractors/Materials</b>			
-	-	\$ -	\$ -
-	-	\$ -	\$ -
-	-	\$ -	\$ -
-	-	\$ -	\$ -
LCI Markup on Subs/Mat'ls	5%	-	\$ -
Total Subs/Mat'ls			\$ -
<b>Misc lump sum pricing</b>			
-	-	\$ -	\$ -
-	-	\$ -	\$ -
-	-	\$ -	\$ -
Total Misc lump sum			\$ -
<b>Bond</b>			
Bond	1.5%	2,096.60	\$ 31.45
Total Bond			\$ 31.45
<b>TOTAL LUMP SUM PRICE</b>			<b>\$ 2,128.05</b>

Notes:

Contract time adjustment:





**LANDWEHR CONSTRUCTION INC.**  
**PO Box 1086 St. Cloud, MN 56302**  
**Phone(320) 252-1494 Fax (320) 252-2380**

Date: March 1, 2016 Proposal Request # 2:00 AM

To: Ty Smith - CH2M

Project: WP-42C.2 Park East Demolition

Description of work performed:

Removal of basement walls/footings coated with asbestos containing waterproofing.

Item	Hrs/Unit	Rate	Total
<b>Equipment</b>			
300 Komatsu Exc-Demo Package	15.0	185.00	\$ 2,775.00
NPK GH15 Hydraulic Hammer	15.0	135.00	\$ 2,025.00
360 Volvo Exc - Demo Package	12.0	185.00	\$ 2,220.00
End Dumps	48.0	62.00	\$ 2,976.00
		-	\$ -
LCI Markup on Equipment	15%	9,996.00	\$ 1,499.40
			\$ 11,495.40
<b>Labor</b>			
Foreman-Operator	15.0	83.00	\$ 1,245.00
Operator	12.0	80.00	\$ 960.00
Laborers - Drivers	48.0	51.00	\$ 2,448.00
LCI Markup on Labor	15%	2,205.00	\$ 330.75
			\$ 4,983.75
<b>Subcontractors/Materials</b>			
Dennis Environmental Operations			
Mob 3 man crew	20.0	80.00	\$ 1,600.00
Crew onsite for removals	25.0	330.00	\$ 8,250.00
Crew onsite for Loading	10.0	330.00	\$ 3,300.00
Materials for Lining trucks	24.0	85.00	\$ 2,040.00
Crew clean up of slab	6.0	190.00	\$ 1,140.00
Landfill tip fees			
City of Fargo	180.0	38.00	\$ 6,840.00
Gwinner	180.0	50.24	\$ 9,043.20
LCI Markup on Subs/Mat'ls	5%	32,213.20	\$ 1,610.66
			\$ 33,823.86
<b>Misc lump sum pricing</b>			
		-	\$ -
		-	\$ -
		-	\$ -
			\$ -
<b>Bond</b>			
	1.5%	50,303.01	\$ 754.55
			\$ 754.55
			\$ 51,057.56
		<b>Price Per Load</b>	<b>\$ 2,127.40</b>

**Notes:** The suspect asbestos containing material was discovered at 7am Thursday February 18, 2016. The contract time adjustment will run from discovery until PR2 work is completed. Equipment, labor and hauling hours listed above represent time in excess of anticipated removal, loading and hauling hours of non-asbestos containing concrete.

**Contract time adjustment:** See note above.



**LANDWEHR CONSTRUCTION INC.**

PO Box 1086 St. Cloud, MN 56302  
 Phone(320) 252-1494 Fax (320) 252-2380

Date: March 1, 2016

Proposal Request # 2 B

To: Ty Smith - CH2M

Project: WP-42C.2 Park East Demolition

Description of work performed:

Excavate and expose basement walls to allow asbestos abatement contractor to remove ACM waterproofing

Item	Hrs/Unit	Rate	Total
<b>Equipment</b>			
360 Volvo Exc - Demo Package	3.0	185.00	\$ 555.00
		-	\$ -
LCI Markup on Equipment	15%	555.00	\$ 83.25
Total Equipment			\$ 638.25
<b>Labor</b>			
Foreman-Operator	3.0	87.00	\$ 261.00
		-	\$ -
LCI Markup on Labor	15%	261.00	\$ 39.15
Total Labor			\$ 300.15
<b>Subcontractors/Materials</b>			
Dennis Environmental Operations See attached	1.0	40,000.00	\$ 40,000.00
		-	\$ -
		-	\$ -
LCI Markup on Subs/Mat'l's	5%	40,000.00	\$ 2,000.00
Total Subs/Mat'l's			\$ 42,000.00
<b>Misc lump sum pricing</b>			
		-	\$ -
		-	\$ -
		-	\$ -
Total Misc lump sum			\$ -
<b>Bond</b>	1.5%	42,938.40	\$ 644.08
Total Bond			\$ 644.08
<b>TOTAL LUMP SUM PRICE</b>			<b>\$ 43,582.48</b>

**Notes:** The suspect asbestos containing material was discovered at 7am Thursday February 18, 2016.  
 The contract time adjustment will run from discovery until PR2 work is completed.  
 Equipment and labor hours listed above represent time in excess of anticipated excavation required in contract work.

Contract time adjustment: See note above.



**DENNIS ENVIRONMENTAL OPERATIONS**

**551 Topping Street  
St. Paul, MN 55103  
(651) 488-4835 Phone  
(651) 488-4624 Fax**

**PROPOSAL**

March 1, 2116

Mr. Nick Linnemann  
Landwehr Construction, Inc.  
836 South 33<sup>rd</sup> Street  
St. Cloud MN 56302

Project: Asbestos Abatement  
Park East

Dennis Environmental Operations will provide the following abatement services:

Labor per hour (8 hour minimum) based on 3 man crew	\$ 330.00 per hr.
Material cost per load	\$ 85.00 per load
Drive Time	\$ 80.00 per hr.

Cost to abate in place \$36,000.00

**Price based on wall surfaces being free of clay/soil work to be performed in accordance to ND rules and NESAP**

Prices are valid for 30 days.

*plus \$4,000 for removing clay/soil*

Price includes disposal, OSHA sampling, labor and materials. All work will be performed in accordance with OSHA, state and federal regulations. We carry industry standard insurance; any additional insurance requests may result in additional charges.

Submitted,  
Rich Dennis, VP

\_\_\_\_\_  
Accepted

**Technical Advisory Group Recommendation**

Meeting Date: 4/6/2016

**RECOMMENDATION FOR ACTION:**

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

**SUMMARY OF CONTRACTING ACTION:**

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

List description of Contract Action(s):

Description	Budget Estimate (\$)
<b>Industrial Builders Inc.</b>	
<i>Change Order #5</i>	<b>68,743.01</b>
<ul style="list-style-type: none"> <li>WP-42F.1S, 2nd Street North (South of Pump Station) - Concrete grading within pump station, unit price change, additional H Pile, bridge abutment seal, traffic signals, and bridge abutment concrete disposal, floodwall connections.</li> </ul>	

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

Original Agreement or Amendment	Budget (\$) Change	Original Project Cost	Revised Project Cost	Project Start	Project Completion	Comments
Original Contract	\$16,184,905.85	\$0.00	\$16,184,905.85	08-Oct-15	15-Jun-17	Contract Award recommended to lowest responsive bidder, Industrial Builders, Inc.
Change Order No. 1	\$0.00	\$16,184,905.85	\$16,184,905.85	08-Oct-15	15-Jul-17	Adds 30 days to the Contract Time, revises Interim Milestone A work items, and adds an option for descoping a portion of the Work
Change Order No. 2	\$169,490.20	\$16,184,905.85	\$16,354,396.05	08-Oct-15	15-Jul-17	Incorporates Work revisions to allow work around utility lines
Change Order No. 3	\$96,806.17	\$16,354,396.05	\$16,451,202.22	08-Oct-15	15-Jul-17	Water main, traffic poles, traffic control plan, Milestone A scope
Change Order No. 4	\$6,985.96	\$16,451,202.22	\$16,458,188.18	08-Oct-15	15-Jul-17	Bridge Lighting, concrete disposal, winter traffic control, extend 4 <sup>th</sup> St signal mods requirement
<b>Change Order No. 5</b>	<b>\$68,743.01</b>	<b>\$16,458,188.18</b>	<b>\$16,526,931.19</b>	<b>08-Oct-15</b>	<b>15-Jul-17</b>	<b>Concrete grading within pump station, Unit price change, additional H Pile, bridge abutment seal, traffic signals, bridge abutment concrete disposal and floodwall connections.</b>

## DISCUSSION

1. Change Order No. 5 modifies multiple scope elements to total an increase of \$68,743.01 to the Contract Price. The Change Order consists of the following items:
  - a. **Concrete Grading Within Pump Station** – The contractor notified CH2M that concrete paving required for final grade within the pump station was not included in either the 42A.2 or 42F.1S contract. HMG and CH2M reviewed the Contractor’s initial change proposal and deemed that it was too high based on expected labor amounts and existing unit rates. HMG and CH2M reviewed the Contractor’s revised proposal and find it acceptable. CH2M recommends increasing the contract price by \$20,068.90 to account for additional concrete work within the pump station.
  - b. **Unit Price Administrative Change** – CH2M recommends matching the contractor’s unit price layout for 8 line items to match accounting systems. This is a no impact administrative change.
  - c. **Additional H Piling** – The contractor installed H-Pile as part of the pedestrian abutment bridge under a lump sum bid item. The Engineer determined the exact quantity on-site based on site conditions, which is typical of this type of installation. This change item includes the cost of materials and labor for the added H-Pile. CH2M recommends increasing the contract price by \$6,587.50 to include the additional material.
  - d. **Bridge Abutment Seal** – The contractor noted during construction that two additional joints need to be added to the 1<sup>st</sup> Avenue bridge. These were not included in the original drawings and were addressed with RFI 023A. HMG and CH2M have reviewed the cost and recommend increasing the contract price by \$8,108.33 to include the additional labor and materials.
  - e. **Traffic Signal Crosswalk Buttons and Mast Arm Extensions** – The City of Fargo requested adding audible crosswalk push buttons and signal mast arm extensions at the intersections of 1<sup>st</sup> Ave N and 2<sup>nd</sup> St N, and 1<sup>st</sup> Ave N and 3<sup>rd</sup> St N. CH2M and HMG reviewed this proposal and find it acceptable therefore CH2M recommends increasing the contract price by \$29,722 to include these changes.
  - f. **Bridge Abutment Concrete Disposal** – An unanticipated concrete slab was encountered when excavating for the bridge abutment which required removal. CH2M and HMG have reviewed the cost proposal provided by the contractor and find it valid. CH2M recommends increasing the contract price by \$4,256.28 to include the disposal of the additional concrete.

## ATTACHMENT(S):

1. Draft Change Order No. 5

Submitted by:

John Glatzmaier, P.E.  
CH2M  
Project Manager  
Metro Flood Diversion Project

April 6, 2016

Date

Keith Berndt, Cass County Administrator  
Concur: April 6, 2016 Non-Concur: \_\_\_\_\_

April Walker, Fargo City Engineer  
Concur: April 7 2016 Non-Concur \_\_\_\_\_

Mark Bittner, Fargo Director of Engineering  
Concur: April 7, 2016 Non-Concur: \_\_\_\_\_

Jason Benson, Cass County Engineer  
Concur: April 6, 2016 Non-Concur \_\_\_\_\_

David Overbo, Clay County Engineer  
Concur: April 6, 2016 Non-Concur: \_\_\_\_\_

Robert Zimmerman, Moorhead City Engineer  
Concur: April 7, 2016 Non-Concur \_\_\_\_\_

Nathan Boerboom, Diversion Authority Project  
Manager  
Concur: April 7, 2016 Non-Concur: \_\_\_\_\_



Change Order No. 05

---

Date of Issuance:	<u>4/14/2016</u>	Effective Date:	<u>4/14/2016</u>
Owner:	<u>Metro Flood Diversion Authority</u>	Owner's Contract No.:	<u>WP-42F.1S</u>
Owner's Representative:	<u>CH2M HILL Engineers, Inc.</u>	Owner's Representative Project No.:	<u>435534</u>
Contractor:	<u>Industrial Builders, Inc.</u>	Contractor's Project No.:	<u></u>
Engineer:	<u>Houston-Moore Group, LLC</u>	Work Package No.:	<u>WP-42F.1S</u>

---

Project: Fargo-Moorhead Area Diversion Contract Name: Flood Control, 2<sup>nd</sup> Street North, South of Pump Station

---

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

**Description:**

1. PLACE CONCRETE GRADING WITHIN PUMP STATION
  - a. Replace sheet C-090-6 in its entirety with the attached sheet. Increase Contract Price for placing concrete in the pump station by adding line item 224, *Pump Station Concrete Grading* as shown in attached Change Order 5 Unit Price Schedule dated 4/14/2016.
2. UNIT PRICE ADMINISTRATIVE CHANGE
  - a. Re-label items 0216 through 0223 to match contractor's unit price schedule as shown in attached Change Order 5 Unit Price Schedule dated 4/14/2016. This change is an administrative change only and does not have a cost or schedule impact.
3. ADDITIONAL H PILING
  - a. Additional H Pile was required to achieve the design load specifications. Increase contract price as shown in attached Change Order 5 Unit Price Schedule dated 4/14/2016 to include line item 227 *Additional H-Piling* for additional labor and materials.
4. BRIDGE ABUTMENT SEAL
  - a. Two additional joints associated with "Brg. Abut. 1" on sheet C-023A and addressed in RFI 023A are required on the bridge abutment. Replace plan sheets C-020-25, C-020-28, and C-020-30 in their entirety with the attached plan sheets. Increase Contract Price as shown in attached Change Order 5 Unit Price Schedule dated 4/14/2016 to include line item 225 *Bridge Abutment Seal* for additional labor and materials.
5. TRAFFIC SIGNAL CROSSWALK BUTTONS AND MAST ARMS
  - a. The City of Fargo requested adding audible crosswalk push buttons and signal mast arm extensions at the intersections of 1<sup>st</sup> Ave N and 2<sup>nd</sup> St N, and 1<sup>st</sup> Ave N and 3<sup>rd</sup> St N. Increase Contract Price as shown in attached Change Order 5 Unit Price Schedule dated 4/14/2016 to include line item 228 *Traffic Signal Modifications* these changes.

6. BRIDGE ABUTMENT CONCRETE DISPOSAL

- a. An unanticipated concrete slab was encountered when excavating for the bridge abutment. Increase Contract Price as shown in attached Change Order 5 Unit Price Schedule dated 4/14/2016 to include line item 226 *Bridge Abutment Concrete Disposal* to account for concrete disposal.

**Attachments:**

- Change Order 5 Unit Price Schedule dated 4/14/2016
- Plan Drawing C-090-6 (Concrete Grading within Pump Station)
- Plan Drawing C-020-25, C-020-28, C-020-30 (Bridge Abutment Seal)
- Plan Drawings C-150-1 through C-150-12 (Traffic Signal Crosswalk Buttons and Mast Arms)
- Contractor Change Proposal Dated 3/16/16 (Concrete Grading, Bridge Seal, H-Pile)
- Contractor Change Proposal Dates 1/13/2016 (Traffic Signals)
- Contractor Change Proposal Dated 1/22/16 (Bridge Abutment Concrete Disposal)

CHANGE IN CONTRACT PRICE	CHANGE IN CONTRACT TIMES <i>[note changes in Milestones if applicable]</i>
Original Contract Price:  <b>16,184,905.85</b>	Original Contract Times: Interim Milestone A: <u>November 30, 2015</u> Substantial Completion: <u>October 1, 2016</u> Ready for Final Payment: <u>June 15, 2017</u>
[Increase] [Decrease] from previously approved Change Orders No. <u>01</u> thru <u>04</u> :  <b>273,282.33</b>	[Increase] [Decrease] from previously approved Change Orders No. <u>01</u> : Interim Milestone A: <u>30 days</u> Substantial Completion: <u>30 days</u> Ready for Final Payment: <u>30 days</u>
Contract Price prior to this Change Order:  <b>16,458,188.18</b>	Contract Times prior to this Change Order: Interim Milestone A: <u>December 30, 2015</u> Substantial Completion: <u>October 31, 2016</u> Ready for Final Payment: <u>July 15, 2017</u>
[Increase] [Decrease] of this Change Order:  <b>68,743.01</b>	[Increase] [Decrease] of this Change Order:  <p style="text-align: right;">N/A</p>
Contract Price incorporating this Change Order:  <b>16,484,289.58</b>	Contract Times with all approved Change Orders: Interim Milestone A: <u>December 30, 2015</u> Substantial Completion: <u>October 31, 2016</u> Ready for Final Payment: <u>July 15, 2017</u>

RECOMMENDED:		ACCEPTED:		ACCEPTED:	
By: _____ Owner's Representative (Authorized Signature)	By: _____ Owner (Authorized Signature)	By: _____ Contractor (Authorized Signature)			
Name: <u>Tyler Smith, P.E.</u>	Name: <u>Darrell Vanyo</u>	Name: <u>David Goulet</u>			
Title: <u>Construction Manager</u>	Title: <u>Chairman</u>	Title: <u>Project Manager</u>			
Date: _____	Date: _____	Date: _____			

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

Change Order 5 Unit Price Schedule - DRAFT  
 DATE: 4/14/2016

**DRAFT**



WP-42F.1S - 2nd Street/Downtown Area - In-Town Levees											
ITEM	DESCRIPTION	UNIT	Current Budget (Through Change Order 04)			Net Change			New Budget		
			QUANTITY	UNIT PRICE	AMOUNT	QUANTITY	UNIT PRICE	AMOUNT	QUANTITY	UNIT PRICE	AMOUNT
0001	Remove Sanitary Manhole	EA	15	2,000.00	\$ 30,000.00			\$ -	15	2,000.00	\$ 30,000.00
0002	Remove Sanitary Lift Station	LS	1	23,000.00	\$ 23,000.00			\$ -	1	23,000.00	\$ 23,000.00
0003	Remove 10x10 Clay Filled Regulator Pit	EA	1	16,000.00	\$ 16,000.00			\$ -	1	16,000.00	\$ 16,000.00
0004	Remove 12x10 Sanitary Junction Vault	EA	1	14,000.00	\$ 14,000.00			\$ -	1	14,000.00	\$ 14,000.00
0005	F&I Sanitary Manhole 4' Dia Reinf Conc	EA	12	5,800.00	\$ 69,600.00			\$ -	12	5,800.00	\$ 69,600.00
0006	F&I Sanitary Manhole w/Ext Drop 4' Dia Reinf Conc	EA	3	7,100.00	\$ 21,300.00			\$ -	3	7,100.00	\$ 21,300.00
0007	F&I Sanitary Manhole SS-1	EA	1	27,000.00	\$ 27,000.00			\$ -	1	27,000.00	\$ 27,000.00
0008	F&I Sanitary Manhole SS-8	EA	1	18,000.00	\$ 18,000.00			\$ -	1	18,000.00	\$ 18,000.00
0009	F&I Sanitary Manhole Type E Reinf Conc	EA	3	25,500.00	\$ 76,500.00			\$ -	3	25,500.00	\$ 76,500.00
0010	F&I 2-Way Cleanout	EA	1	3,000.00	\$ 3,000.00			\$ -	1	3,000.00	\$ 3,000.00
0011	F&I Casting - Floating Manhole	EA	1	1,800.00	\$ 1,800.00			\$ -	1	1,800.00	\$ 1,800.00
0012	Connect Sanitary Pipe to Exist Pipe	EA	1	2,500.00	\$ 2,500.00			\$ -	1	2,500.00	\$ 2,500.00
0013	F&I Insulation 2" Thick	SY	425	20.00	\$ 8,500.00			\$ -	425	20.00	\$ 8,500.00
0014	F&I Sanitary Pipe Sch 40 - 4" Dia PVC	LF	21	200.00	\$ 4,200.00			\$ -	21	200.00	\$ 4,200.00
0015	F&I Sanitary Pipe SDR 26 - 6" Dia PVC	LF	42	120.00	\$ 5,040.00			\$ -	42	120.00	\$ 5,040.00
0016	F&I Sanitary Pipe SDR 26 - 12" Dia PVC	LF	185	206.00	\$ 38,110.00			\$ -	185	206.00	\$ 38,110.00
0017	F&I Sanitary Pipe SDR 26 - 18" Dia PVC	LF	157	180.00	\$ 28,260.00			\$ -	157	180.00	\$ 28,260.00
0018	F&I Sanitary Pipe SDR 26 - 36" Dia PVC	LF	38	350.00	\$ 13,300.00			\$ -	38	350.00	\$ 13,300.00
0019	F&I Sanitary Pipe w/GB Sch 40 - 4" Dia PVC	LF	38	275.00	\$ 10,450.00			\$ -	38	275.00	\$ 10,450.00
0020	F&I Sanitary Pipe w/GB SDR 26 - 6" Dia PVC	LF	82	261.00	\$ 21,402.00			\$ -	82	261.00	\$ 21,402.00
0021	F&I Sanitary Pipe w/GB SDR 26 - 12" Dia PVC	LF	865	470.00	\$ 406,550.00			\$ -	865	470.00	\$ 406,550.00
0022	F&I Sanitary Pipe w/GB SDR 35 - 12" Dia PVC	LF	49	300.00	\$ 14,700.00			\$ -	49	300.00	\$ 14,700.00



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

ITEM	DESCRIPTION	UNIT	Current Budget (Through Change Order 04)			Net Change			New Budget		
			QUANTITY	UNIT PRICE	AMOUNT	QUANTITY	UNIT PRICE	AMOUNT	QUANTITY	UNIT PRICE	AMOUNT
0023	F&I Sanitary Pipe w/GB SDR 26 - 15" Dia PVC	LF	95	290.00	\$ 27,550.00			\$ -	95	290.00	\$ 27,550.00
0024	F&I Sanitary Pipe w/GB SDR 35 - 15" Dia PVC	LF	6	415.00	\$ 2,490.00			\$ -	6	415.00	\$ 2,490.00
0025	F&I Sanitary Pipe w/GB SDR 26 - 18" Dia PVC	LF	529	420.00	\$ 222,180.00			\$ -	529	420.00	\$ 222,180.00
0026	F&I Sanitary Pipe w/GB SDR 26 - 36" Dia PVC	LF	30	810.00	\$ 24,300.00			\$ -	30	810.00	\$ 24,300.00
0027	F&I DI Fittings-Sanitary Force Main	LB	11965	7.00	\$ 83,755.00			\$ -	11965	7.00	\$ 83,755.00
0028	F&I Sanitary Valve 8" Dia-Plug Valve	EA	1	4,300.00	\$ 4,300.00			\$ -	1	4,300.00	\$ 4,300.00
0029	F&I Sanitary Valve 16" Dia-Plug Valve	EA	1	9,000.00	\$ 9,000.00			\$ -	1	9,000.00	\$ 9,000.00
0030	F&I Sanitary Valve 24" Dia-Plug Valve	EA	1	27,000.00	\$ 27,000.00			\$ -	1	27,000.00	\$ 27,000.00
0031	F&I Sanitary Valve 30" Dia-Plug Valve	EA	1	41,000.00	\$ 41,000.00			\$ -	1	41,000.00	\$ 41,000.00
0032	F&I Pipe w/GB Class 53-8" Dia DIP (Protecto 401)	LF	10	355.00	\$ 3,550.00			\$ -	10	355.00	\$ 3,550.00
0033	F&I Sanitary Pipe w/GB DR 25 - 16" Dia PVC	LF	310	330.00	\$ 102,300.00			\$ -	310	330.00	\$ 102,300.00
0034	F&I Sanitary Pipe w/GB DR 25 - 24" Dia PVC	LF	125	500.00	\$ 62,500.00			\$ -	125	500.00	\$ 62,500.00
0035	F&I Sanitary Pipe w/GB DR 25 - 30" Dia PVC	LF	795	400.00	\$ 318,000.00			\$ -	795	400.00	\$ 318,000.00
0036	Remove Sanitary Pipe All Sizes All Types	LF	2249	\$ 15.00	\$ 33,735.00			\$ -	2249	\$ 15.00	\$ 33,735.00
0037	Plug Sanitary Pipe 10" Diameter	EA	3	\$ 1,150.00	\$ 3,450.00			\$ -	3	\$ 1,150.00	\$ 3,450.00
0038	Plug Sanitary Pipe 12" Diameter	EA	6	\$ 1,270.00	\$ 7,620.00			\$ -	6	\$ 1,270.00	\$ 7,620.00
0039	Plug Sanitary Pipe 16" Diameter	EA	1	\$ 1,465.00	\$ 1,465.00			\$ -	1	\$ 1,465.00	\$ 1,465.00
0040	Plug Sanitary Pipe 18" Diameter	EA	3	\$ 1,660.00	\$ 4,980.00			\$ -	3	\$ 1,660.00	\$ 4,980.00
0041	Abandon Sanitary Manhole	EA	1	\$ 2,000.00	\$ 2,000.00			\$ -	1	\$ 2,000.00	\$ 2,000.00
0042	F&I Emergency Overflow Manhole Equipment	LS	1	\$ 15,200.00	\$ 15,200.00			\$ -	1	\$ 15,200.00	\$ 15,200.00
0043	F&I 5" Hydrant	EA	5	\$ 4,600.00	\$ 23,000.00			\$ -	5	\$ 4,600.00	\$ 23,000.00
0044	Remove Hydrant	EA	4	\$ 1,000.00	\$ 4,000.00			\$ -	4	\$ 1,000.00	\$ 4,000.00
0045	F&I Insulation 4" Thick	SY	10	\$ 72.00	\$ 720.00			\$ -	10	\$ 72.00	\$ 720.00
0046	Connect Water Service	EA	2	\$ 900.00	\$ 1,800.00			\$ -	2	\$ 900.00	\$ 1,800.00
0047	F&I Watermain Pipe C900 DR 18 - 4" Dia PVC	LF	21	\$ 70.00	\$ 1,470.00			\$ -	21	\$ 70.00	\$ 1,470.00
0048	F&I Watermain Pipe C900 DR 18 - 6" Dia PVC	LF	95	\$ 55.00	\$ 5,225.00			\$ -	95	\$ 55.00	\$ 5,225.00

WP-42F.1S - 2nd Street/Downtown Area - In-Town Levees											
ITEM	DESCRIPTION	UNIT	Current Budget (Through Change Order 04)			Net Change			New Budget		
			QUANTITY	UNIT PRICE	AMOUNT	QUANTITY	UNIT PRICE	AMOUNT	QUANTITY	UNIT PRICE	AMOUNT
0049	F&I Watermain Pipe C900 DR 18 - 8" Dia PVC	LF	193	\$ 44.00	\$ 8,492.00			\$ -	193	\$ 44.00	\$ 8,492.00
0050	F&I Watermain Pipe w/GB C900 DR 18 - 6" Dia PVC	LF	22	\$ 183.00	\$ 4,026.00			\$ -	22	\$ 183.00	\$ 4,026.00
0051	F&I Watermain Pipe w/GB C900 DR 18 - 8" Dia PVC	LF	333	\$ 185.00	\$ 61,605.00			\$ -	333	\$ 185.00	\$ 61,605.00
0052	F&I Gate Valve 4" Dia	EA	1	\$ 1,350.00	\$ 1,350.00			\$ -	1	\$ 1,350.00	\$ 1,350.00
0053	F&I Gate Valve 6" Dia	EA	10	\$ 1,750.00	\$ 17,500.00			\$ -	10	\$ 1,750.00	\$ 17,500.00
0054	F&I Gate Valve 8" Dia	EA	1	\$ 2,370.00	\$ 2,370.00			\$ -	1	\$ 2,370.00	\$ 2,370.00
0055	F&I Watermain Pipe 1" Dia Copper	LF	39	\$ 75.00	\$ 2,925.00			\$ -	39	\$ 75.00	\$ 2,925.00
0056	F&I Watermain Pipe w/GB 1" Dia Copper	LF	84	\$ 180.00	\$ 15,120.00			\$ -	84	\$ 180.00	\$ 15,120.00
0057	Remove Watermain Pipe All Sizes All Types	LF	1765	\$ 17.00	\$ 30,005.00			\$ -	1765	\$ 17.00	\$ 30,005.00
0058	Temporary Water Service (Howard Johnson Hotel)	LS	1	\$ 28,000.00	\$ 28,000.00			\$ -	1	\$ 28,000.00	\$ 28,000.00
0059	Plug Watermain Pipe 6" Dia	EA	4	\$ 900.00	\$ 3,600.00			\$ -	4	\$ 900.00	\$ 3,600.00
0060	F&I Watermain Fittings Ductile Iron	LBS	6550	\$ 8.51	\$ 55,740.50			\$ -	6550	\$ 8.51	\$ 55,740.50
0061	F&I Storm Manhole 4' Dia Reinf Conc	EA	5	\$ 2,675.00	\$ 13,375.00			\$ -	5	\$ 2,675.00	\$ 13,375.00
0062	F&I Storm Manhole 7' Dia Reinf Conc	EA	3	\$ 15,300.00	\$ 45,900.00			\$ -	3	\$ 15,300.00	\$ 45,900.00
0063	F&I Storm Manhole 8.1	EA	1	\$ 22,000.00	\$ 22,000.00			\$ -	1	\$ 22,000.00	\$ 22,000.00
0064	F&I Storm Manhole 8' Dia Reinf Conc	EA	3	\$ 16,700.00	\$ 50,100.00			\$ -	3	\$ 16,700.00	\$ 50,100.00
0065	F&I Storm Manhole Type E Reinf Conc	EA	8	\$ 54,000.00	\$ 432,000.00			\$ -	8	\$ 54,000.00	\$ 432,000.00
0066	F&I Storm Manhole ST-2 Special Manhole	EA	1	\$ 2,465.00	\$ 2,465.00			\$ -	1	\$ 2,465.00	\$ 2,465.00
0067	F&I Inlet - Manhole (MHI) 4' Dia Reinf Conc	EA	4	\$ 2,365.00	\$ 9,460.00			\$ -	4	\$ 2,365.00	\$ 9,460.00
0068	F&I Inlet - Manhole (MHI) 6' Dia Reinf Conc	EA	1	\$ 4,000.00	\$ 4,000.00			\$ -	1	\$ 4,000.00	\$ 4,000.00
0069	Raise Storm Sewer Structure	EA	2	\$ 3,530.00	\$ 7,060.00			\$ -	2	\$ 3,530.00	\$ 7,060.00
0070	F&I Inlet - Single Box (SBI) Reinf Conc	EA	9	\$ 2,000.00	\$ 18,000.00			\$ -	9	\$ 2,000.00	\$ 18,000.00
0071	F&I Inlet - Triple Box Reinf Conc	EA	2	\$ 5,900.00	\$ 11,800.00			\$ -	2	\$ 5,900.00	\$ 11,800.00
0072	F&I Inlet - Bridge Drain	EA	1	\$ 5,500.00	\$ 5,500.00			\$ -	1	\$ 5,500.00	\$ 5,500.00
0073	F&I Storm Manhole Type E Crossing Chamber	EA	1	\$ 11,000.00	\$ 11,000.00			\$ -	1	\$ 11,000.00	\$ 11,000.00
0074	Connect Storm Pipe to Exist Structure	EA	2	\$ 17,000.00	\$ 34,000.00			\$ -	2	\$ 17,000.00	\$ 34,000.00

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

ITEM	DESCRIPTION	UNIT	Current Budget (Through Change Order 04)			Net Change			New Budget		
			QUANTITY	UNIT PRICE	AMOUNT	QUANTITY	UNIT PRICE	AMOUNT	QUANTITY	UNIT PRICE	AMOUNT
0075	Connect Storm Pipe to Exist Pipe	EA	1	\$ 4,000.00	\$ 4,000.00			\$ -	1	\$ 4,000.00	\$ 4,000.00
0076	Remove Storm Manhole	EA	8	\$ 900.00	\$ 7,200.00			\$ -	8	\$ 900.00	\$ 7,200.00
0077	Remove Storm Inlet	EA	22	\$ 1,200.00	\$ 26,400.00			\$ -	22	\$ 1,200.00	\$ 26,400.00
0078	Remove Existing Storm Lift Station	LS	1	\$ 48,000.00	\$ 48,000.00			\$ -	1	\$ 48,000.00	\$ 48,000.00
0079	Riprap (Outlet)	CY	695	\$ 180.00	\$ 125,100.00			\$ -	695	\$ 180.00	\$ 125,100.00
0080	Remove Storm Pipe All Sizes All Types	LF	2283	\$ 17.00	\$ 38,811.00			\$ -	2283	\$ 17.00	\$ 38,811.00
0081	F&I Flared End Section 12" Dia Corr Steel	EA	1	\$ 272.00	\$ 272.00			\$ -	1	\$ 272.00	\$ 272.00
0082	Box Culvert End Section with Grate	EA	1	\$ 160,000.00	\$ 160,000.00			\$ -	1	\$ 160,000.00	\$ 160,000.00
0083	Plug Storm Pipe 4" thru 12" Dia	EA	2	\$ 1,600.00	\$ 3,200.00			\$ -	2	\$ 1,600.00	\$ 3,200.00
0084	Plug Storm Pipe 14" thru 24" Dia	EA	1	\$ 1,980.00	\$ 1,980.00			\$ -	1	\$ 1,980.00	\$ 1,980.00
0085	Plug Storm Pipe 42" thru 54" Dia	EA	2	\$ 3,000.00	\$ 6,000.00			\$ -	2	\$ 3,000.00	\$ 6,000.00
0086	F&I Storm Pipe 12" Dia Reinf Conc	LF	25	\$ 64.00	\$ 1,600.00			\$ -	25	\$ 64.00	\$ 1,600.00
0087	F&I Storm Pipe 15" Dia Reinf Conc	LF	49	\$ 64.00	\$ 3,136.00			\$ -	49	\$ 64.00	\$ 3,136.00
0088	F&I Storm Pipe 18" Dia Reinf Conc	LF	182	\$ 66.00	\$ 12,012.00			\$ -	182	\$ 66.00	\$ 12,012.00
0089	F&I Storm Pipe 24" Dia Reinf Conc	LF	70	\$ 77.00	\$ 5,390.00			\$ -	70	\$ 77.00	\$ 5,390.00
0090	F&I Storm Pipe 48" Dia Reinf Conc	LF	47	\$ 177.00	\$ 8,319.00			\$ -	47	\$ 177.00	\$ 8,319.00
0091	F&I Storm Pipe 54" Dia Reinf Conc	LF	22	\$ 222.00	\$ 4,884.00			\$ -	22	\$ 222.00	\$ 4,884.00
0092	F&I Storm Box Culvert 6'x6' Wide Reinf Conc Cast In Place	LF	100	\$ 2,400.00	\$ 240,000.00			\$ -	100	\$ 2,400.00	\$ 240,000.00
0093	F&I Storm Pipe 12" Dia PVC	LF	223	\$ 60.00	\$ 13,380.00			\$ -	223	\$ 60.00	\$ 13,380.00
0094	F&I Storm Pipe w/GB 12" Dia Reinf Conc	LF	42	\$ 190.00	\$ 7,980.00			\$ -	42	\$ 190.00	\$ 7,980.00
0095	F&I Storm Pipe w/GB 15" Dia Reinf Conc	LF	123	\$ 190.00	\$ 23,370.00			\$ -	123	\$ 190.00	\$ 23,370.00
0096	F&I Storm Pipe w/GB 18" Dia Reinf Conc	LF	167	\$ 192.00	\$ 32,064.00			\$ -	167	\$ 192.00	\$ 32,064.00
0097	F&I Storm Pipe w/GB 24" Dia Reinf Conc	LF	424	\$ 204.00	\$ 86,496.00			\$ -	424	\$ 204.00	\$ 86,496.00
0098	F&I Storm Pipe w/GB 48" Dia Reinf Conc	LF	155	\$ 575.00	\$ 89,125.00			\$ -	155	\$ 575.00	\$ 89,125.00
0099	F&I Storm Pipe w/GB 54" Dia Reinf Conc	LF	598	\$ 710.00	\$ 424,580.00			\$ -	598	\$ 710.00	\$ 424,580.00
0100	F&I Storm Pipe w/GB 60" Dia Reinf Conc	LF	10	\$ 785.00	\$ 7,850.00			\$ -	10	\$ 785.00	\$ 7,850.00

WP-42F.1S - 2nd Street/Downtown Area - In-Town Levees											
ITEM	DESCRIPTION	UNIT	Current Budget (Through Change Order 04)			Net Change			New Budget		
			QUANTITY	UNIT PRICE	AMOUNT	QUANTITY	UNIT PRICE	AMOUNT	QUANTITY	UNIT PRICE	AMOUNT
0101	F&I Storm Box Culvert w/GB 6'x6' Wide Reinf Conc Precast	LF	658	\$ 1,440.00	\$ 947,520.00			\$ -	658	\$ 1,440.00	\$ 947,520.00
0102	Remove Pavement All Thicknesses All Types	SY	24159	\$ 5.00	\$ 120,795.00			\$ -	24159	\$ 5.00	\$ 120,795.00
0103	Remove Sidewalk All Thicknesses All Types	SY	5375	\$ 4.00	\$ 21,500.00			\$ -	5375	\$ 4.00	\$ 21,500.00
0104	Excavation (Roadway)	CY	906	\$ 4.00	\$ 3,624.00			\$ -	906	\$ 4.00	\$ 3,624.00
0105	Fill - Import (Roadway)	CY	3910	\$ 15.00	\$ 58,650.00			\$ -	3910	\$ 15.00	\$ 58,650.00
0106	Subgrade Preparation	SY	12740	\$ 0.70	\$ 8,918.00			\$ -	12740	\$ 0.70	\$ 8,918.00
0107	F&I Woven Geotextile	SY	12740	\$ 2.00	\$ 25,480.00			\$ -	12740	\$ 2.00	\$ 25,480.00
0108	F&I Class 5 Agg - 6" Thick	SY	2521	\$ 10.00	\$ 25,210.00			\$ -	2521	\$ 10.00	\$ 25,210.00
0109	F&I Class 5 Agg - 8" Thick	SY	1593	\$ 11.00	\$ 17,523.00			\$ -	1593	\$ 11.00	\$ 17,523.00
0110	F&I Class 5 Agg - 12" Thick	SY	8626	\$ 14.00	\$ 120,764.00			\$ -	8626	\$ 14.00	\$ 120,764.00
0111	F&I Edge Drain 4" Dia PVC	LF	3571	\$ 11.00	\$ 39,281.00			\$ -	3571	\$ 11.00	\$ 39,281.00
0112	F&I Curb & Gutter Standard (Type II)	LF	3888	\$ 36.00	\$ 139,968.00			\$ -	3888	\$ 36.00	\$ 139,968.00
0113	Remove Curb & Gutter	LF	4528	\$ 5.00	\$ 22,640.00			\$ -	4528	\$ 5.00	\$ 22,640.00
0114	F&I Pavement 9" Thick Doweled Conc	SY	7490	\$ 98.00	\$ 734,020.00			\$ -	7490	\$ 98.00	\$ 734,020.00
0115	F&I Crushed Conc - 6" Thick	SY	1063	\$ 12.00	\$ 12,756.00			\$ -	1063	\$ 12.00	\$ 12,756.00
0116	F&I Aggregate for Asph Pavement FAA 43	TON	1386	\$ 83.00	\$ 115,038.00			\$ -	1386	\$ 83.00	\$ 115,038.00
0117	F&I Asphalt Cement PG 58-28	GAL	11644	\$ 2.50	\$ 29,110.00			\$ -	11644	\$ 2.50	\$ 29,110.00
0118	F&I Asphalt Cement PG 58-34	GAL	8296	\$ 3.00	\$ 24,888.00			\$ -	8296	\$ 3.00	\$ 24,888.00
0119	F&I Median Nose - Conc	SY	23	\$ 112.00	\$ 2,576.00			\$ -	23	\$ 112.00	\$ 2,576.00
0120	F&I Sidewalk 4" Thick Reinf Conc	SY	3260	\$ 73.00	\$ 237,980.00			\$ -	3260	\$ 73.00	\$ 237,980.00
0121	F&I Sidewalk 6" Thick Reinf Conc	SY	2765	\$ 85.00	\$ 235,025.00			\$ -	2765	\$ 85.00	\$ 235,025.00
0122	Temp Construction Entrance	EA	4	\$ 3,500.00	\$ 14,000.00			\$ -	4	\$ 3,500.00	\$ 14,000.00
0123	F&I Impressioned 4" Thick Reinf Conc	SY	659	\$ 230.00	\$ 151,570.00			\$ -	659	\$ 230.00	\$ 151,570.00
0124	F&I Driveway 6" Thick Reinf Conc	SY	197	\$ 85.00	\$ 16,745.00			\$ -	197	\$ 85.00	\$ 16,745.00
0125	F&I Det Warn Panels Cast Iron	SF	316	\$ 62.00	\$ 19,592.00			\$ -	316	\$ 62.00	\$ 19,592.00
0126	F&I Sign Assembly	EA	26	\$ 260.00	\$ 6,760.00			\$ -	26	\$ 260.00	\$ 6,760.00

WP-42F.1S - 2nd Street/Downtown Area - In-Town Levees											
ITEM	DESCRIPTION	UNIT	Current Budget (Through Change Order 04)			Net Change			New Budget		
			QUANTITY	UNIT PRICE	AMOUNT	QUANTITY	UNIT PRICE	AMOUNT	QUANTITY	UNIT PRICE	AMOUNT
0127	F&I Engineering Grade	SF	47	\$ 32.00	\$ 1,491.20			\$ -	47	\$ 32.00	\$ 1,491.20
0128	F&I Diamond Grade Cubed	SF	39	\$ 80.00	\$ 3,136.00			\$ -	39	\$ 80.00	\$ 3,136.00
0129	F&I High Intensity Prismatic	SF	49	\$ 74.00	\$ 3,648.20			\$ -	49	\$ 74.00	\$ 3,648.20
0130	F&I Flexible Delineator	EA	24	\$ 80.00	\$ 1,920.00			\$ -	24	\$ 80.00	\$ 1,920.00
0131	F&I Grooved Plastic Film Message	SF	352	\$ 31.50	\$ 11,088.00			\$ -	352	\$ 31.50	\$ 11,088.00
0132	F&I Grooved Plastic Film 4" Wide	LF	5737	\$ 5.20	\$ 29,832.40			\$ -	5737	\$ 5.20	\$ 29,832.40
0133	F&I Grooved Plastic Film 8" Wide	LF	1219	\$ 10.40	\$ 12,677.60			\$ -	1219	\$ 10.40	\$ 12,677.60
0134	F&I Grooved Contrast Film 7" Wide	LF	744	\$ 9.40	\$ 6,993.60			\$ -	744	\$ 9.40	\$ 6,993.60
0135	Paint Epoxy Line 4" Wide	LF	786	\$ 8.40	\$ 6,602.40			\$ -	786	\$ 8.40	\$ 6,602.40
0136	F&I Methacrylate 6" Wide	LF	1040	\$ 21.00	\$ 21,840.00			\$ -	1040	\$ 21.00	\$ 21,840.00
0137	F&I Methacrylate 16" Wide	LF	264	\$ 36.00	\$ 9,504.00			\$ -	264	\$ 36.00	\$ 9,504.00
0138	F&I Methacrylate 24" Wide	LF	56	\$ 53.00	\$ 2,968.00			\$ -	56	\$ 53.00	\$ 2,968.00
0139	Traffic Control - Type 2	LS	1	\$ 175,000.00	\$ 175,000.00			\$ -	1	\$ 175,000.00	\$ 175,000.00
0140	Obliterate Pavement Markings	SF	18	\$ 8.40	\$ 151.20			\$ -	18	\$ 8.40	\$ 151.20
0141	4" Special Concrete 1	SY	318	\$ 152.00	\$ 48,336.00			\$ -	318	\$ 152.00	\$ 48,336.00
0142	4" Special Concrete 3	SY	48	\$ 265.00	\$ 12,720.00			\$ -	48	\$ 265.00	\$ 12,720.00
0143	6" Special Concrete 1	SY	536	\$ 165.00	\$ 88,440.00			\$ -	536	\$ 165.00	\$ 88,440.00
0144	6" Special Concrete 2	SY	172	\$ 265.00	\$ 45,580.00			\$ -	172	\$ 265.00	\$ 45,580.00
0145	Sloped Planter Edge	LF	309	\$ 132.00	\$ 40,788.00			\$ -	309	\$ 132.00	\$ 40,788.00
0146	Rolled Planter Edge	LF	198	\$ 130.00	\$ 25,740.00			\$ -	198	\$ 130.00	\$ 25,740.00
0147	Mobilization	LS	1	\$ 744,700.00	\$ 744,700.00			\$ -	1	\$ 744,700.00	\$ 744,700.00
0148	Temp Fence - Safety	LF	1929	\$ 6.00	\$ 11,574.00			\$ -	1929	\$ 6.00	\$ 11,574.00
0149	F&I Chain Link Fence	LF	1124	\$ 16.00	\$ 17,984.00			\$ -	1124	\$ 16.00	\$ 17,984.00
0150	F&I Construction Entrance Gate	EA	4	\$ 600.00	\$ 2,400.00			\$ -	4	\$ 600.00	\$ 2,400.00
0151	Temp Pumping	LS	1	\$ 90,000.00	\$ 90,000.00			\$ -	1	\$ 90,000.00	\$ 90,000.00
0152	Clear & Grub	LS	1	\$ 5,000.00	\$ 5,000.00			\$ -	1	\$ 5,000.00	\$ 5,000.00

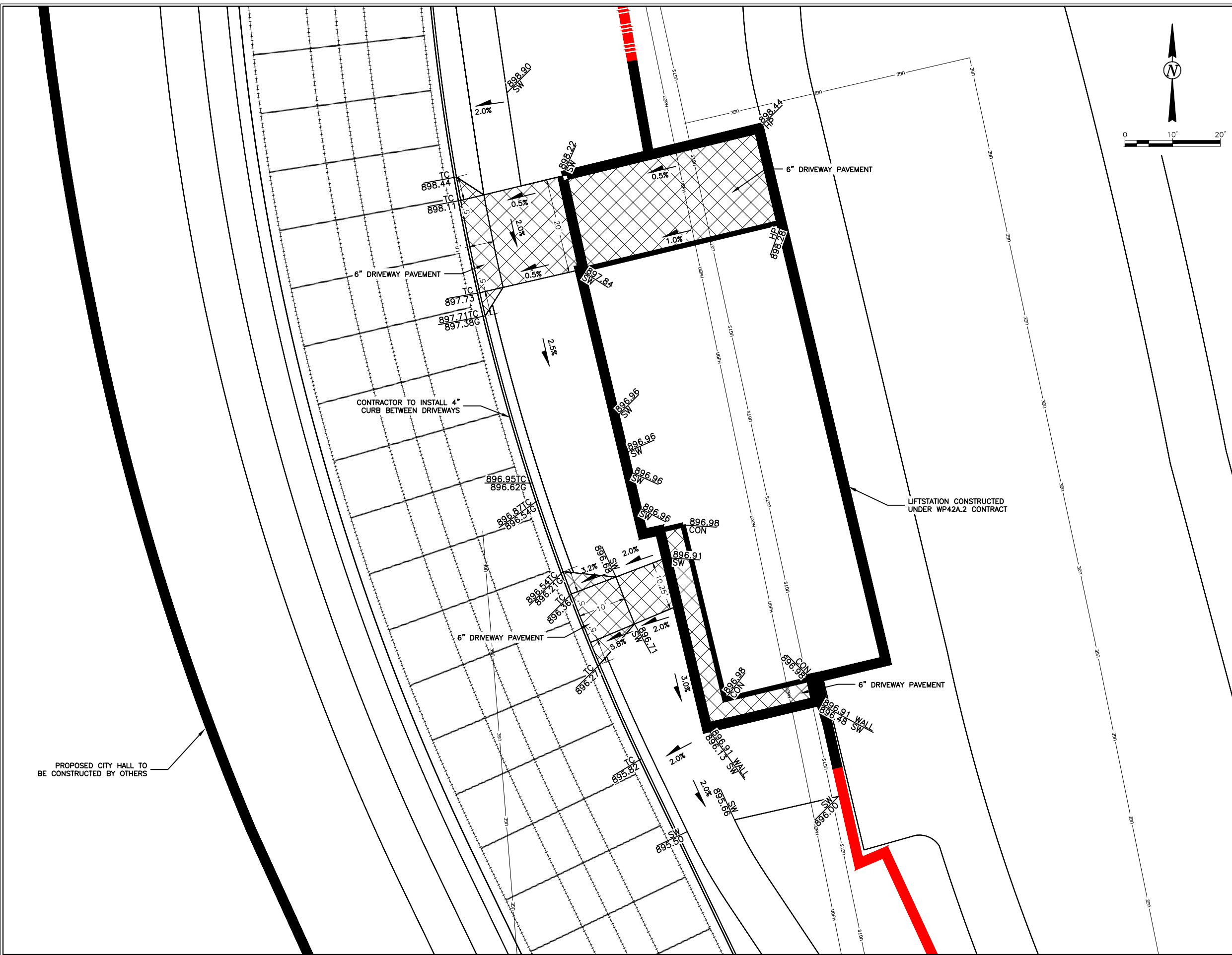
WP-42F.1S - 2nd Street/Downtown Area - In-Town Levees											
ITEM	DESCRIPTION	UNIT	Current Budget (Through Change Order 04)			Net Change			New Budget		
			QUANTITY	UNIT PRICE	AMOUNT	QUANTITY	UNIT PRICE	AMOUNT	QUANTITY	UNIT PRICE	AMOUNT
0153	Remove Tree	EA	113	\$ 360.00	\$ 40,680.00			\$ -	113	\$ 360.00	\$ 40,680.00
0154	Silt Fence - Standard	LF	1368	\$ 2.70	\$ 3,693.60			\$ -	1368	\$ 2.70	\$ 3,693.60
0155	Floating Silt Fence	LF	149	\$ 27.00	\$ 4,023.00			\$ -	149	\$ 27.00	\$ 4,023.00
0156	Sediment Control Log 10" to 15" Dia	LF	1748	\$ 3.50	\$ 6,118.00			\$ -	1748	\$ 3.50	\$ 6,118.00
0157	Inlet Protection - New Inlet	EA	17	\$ 270.00	\$ 4,590.00			\$ -	17	\$ 270.00	\$ 4,590.00
0158	Inlet Protection - Existing Inlet	EA	16	\$ 160.00	\$ 2,560.00			\$ -	16	\$ 160.00	\$ 2,560.00
0159	Install Tree Grate	EA	4	\$ 2,625.00	\$ 10,500.00			\$ -	4	\$ 2,625.00	\$ 10,500.00
0160	Structural Soil Including Drain Tile	LS	1	\$ 25,000.00	\$ 25,000.00			\$ -	1	\$ 25,000.00	\$ 25,000.00
0161	Topsoil Import - Special Including Drain Tile	LS	1	\$ 22,000.00	\$ 22,000.00			\$ -	1	\$ 22,000.00	\$ 22,000.00
0162	Gateway Monument	EA	2	\$ 28,000.00	\$ 56,000.00			\$ -	2	\$ 28,000.00	\$ 56,000.00
0163	15' Cast Stone Bench	EA	3	\$ 9,000.00	\$ 27,000.00			\$ -	3	\$ 9,000.00	\$ 27,000.00
0164	30' Cast Stone Bench	EA	2	\$ 15,000.00	\$ 30,000.00			\$ -	2	\$ 15,000.00	\$ 30,000.00
0165	Street Lighting	LS	1	\$ 150,000.00	\$ 150,000.00			\$ -	1	\$ 150,000.00	\$ 150,000.00
0166	Plaza Lighting	LS	1	\$ 9,000.00	\$ 9,000.00			\$ -	1	\$ 9,000.00	\$ 9,000.00
0167	Remove Fence with Brick Columns (Includes Case Plaza Sign)	LS	1	\$ 5,000.00	\$ 5,000.00			\$ -	1	\$ 5,000.00	\$ 5,000.00
0168	Remove and Salvage City of Fargo Sign/Remove Landscaping	LS	1	\$ 2,000.00	\$ 2,000.00			\$ -	1	\$ 2,000.00	\$ 2,000.00
0169	Remove Outfall Including Adjacent Concrete Structures	EA	2	\$ 21,000.00	\$ 42,000.00			\$ -	2	\$ 21,000.00	\$ 42,000.00
0170	Remove Crosswalk Pavement Markings and Signal from NP Avenue	LS	1	\$ 2,000.00	\$ 2,000.00			\$ -	1	\$ 2,000.00	\$ 2,000.00
0171	Remove and Salvage Parking Lot Concrete Stops	EA	120	\$ 60.00	\$ 7,200.00			\$ -	120	\$ 60.00	\$ 7,200.00
0172	Remove Landscaped Area (Howard Johnson Hotel)	LS	1	\$ 6,500.00	\$ 6,500.00			\$ -	1	\$ 6,500.00	\$ 6,500.00
0173	Remove Concrete Planter	EA	8	\$ 80.00	\$ 640.00			\$ -	8	\$ 80.00	\$ 640.00
0174	Remove Sidestreet Grill Sign	LS	1	\$ 4,000.00	\$ 4,000.00			\$ -	1	\$ 4,000.00	\$ 4,000.00
0175	Remove Building (Parking Lot Attendant Building)	LS	1	\$ 5,000.00	\$ 5,000.00			\$ -	1	\$ 5,000.00	\$ 5,000.00
0176	Remove and Salvage Traffic Signal Equipment - System "A" (2ND ST/4TH AVE N)	LS	1	\$ 6,000.00	\$ 6,000.00			\$ -	1	\$ 6,000.00	\$ 6,000.00
0177	Traffic Signal System "A" (2 ST / 1 AVE N)	LS	1	\$ 260,000.00	\$ 260,000.00			\$ -	1	\$ 260,000.00	\$ 260,000.00
0178	Traffic Signal System "B" (3 ST / 1 AVE N)	LS	1	\$ 235,000.00	\$ 235,000.00			\$ -	1	\$ 235,000.00	\$ 235,000.00

WP-42F.1S - 2nd Street/Downtown Area - In-Town Levees											
ITEM	DESCRIPTION	UNIT	Current Budget (Through Change Order 04)			Net Change			New Budget		
			QUANTITY	UNIT PRICE	AMOUNT	QUANTITY	UNIT PRICE	AMOUNT	QUANTITY	UNIT PRICE	AMOUNT
0179	Modify Traffic Signal System "C" (2 ST / NP AVE)	LS	1	\$ 105,000.00	\$ 105,000.00			\$ -	1	\$ 105,000.00	\$ 105,000.00
0180	Modify Traffic Signal System "D" (4 ST / 2 AVE N)	LS	1	\$ 36,000.00	\$ 36,000.00			\$ -	1	\$ 36,000.00	\$ 36,000.00
0181	Modify Traffic Signal System "E" (4 ST / 3 AVE N)	LS	1	\$ 26,000.00	\$ 26,000.00			\$ -	1	\$ 26,000.00	\$ 26,000.00
0182	Modify Traffic Signal System "F" (4 ST / 4 AVE N)	LS	1	\$ 38,000.00	\$ 38,000.00			\$ -	1	\$ 38,000.00	\$ 38,000.00
0183	Class 1 Overlay	SY	25	\$ 600.00	\$ 15,000.00			\$ -	25	\$ 600.00	\$ 15,000.00
0184	Bridge Concrete Removal	LS	1	\$ 45,000.00	\$ 45,000.00			\$ -	1	\$ 45,000.00	\$ 45,000.00
0185	Jersey Barrier Formed or Slipformed	LF	42	\$ 230.00	\$ 9,660.00			\$ -	42	\$ 230.00	\$ 9,660.00
0186	Bridge Curb	LF	20	\$ 65.00	\$ 1,300.00			\$ -	20	\$ 65.00	\$ 1,300.00
0187	Class AAE-3 Concrete	CY	54	\$ 1,500.00	\$ 81,000.00			\$ -	54	\$ 1,500.00	\$ 81,000.00
0188	Compression Seal	LF	180	\$ 65.00	\$ 11,700.00			\$ -	180	\$ 65.00	\$ 11,700.00
0189	Structural Steel	LS	1	\$ 75,000.00	\$ 75,000.00			\$ -	1	\$ 81,587.50	\$ 81,587.50
0190	Remove Foundation (Case Plaza and Mid America Steel, Inc.)	LS	1	\$ 40,000.00	\$ 40,000.00			\$ -	1	\$ 40,000.00	\$ 40,000.00
0191	F&I Sheet Piling - Steel	SF	470	\$ 60.00	\$ 28,200.00			\$ -	470	\$ 60.00	\$ 28,200.00
0192	Topsoil - Strip	CY	4085	\$ 2.00	\$ 8,170.00			\$ -	4085	\$ 2.00	\$ 8,170.00
0193	Topsoil - Spread	CY	2690	\$ 2.00	\$ 5,380.00			\$ -	2690	\$ 2.00	\$ 5,380.00
0194	Embankment	CY	3210	\$ 4.00	\$ 12,840.00			\$ -	3210	\$ 4.00	\$ 12,840.00
0195	Fill - Haul	CY	8370	\$ 8.00	\$ 66,960.00			\$ -	8370	\$ 8.00	\$ 66,960.00
0196	Inspection Trench	CY	175	\$ 12.00	\$ 2,100.00			\$ -	175	\$ 12.00	\$ 2,100.00
0197	Subcut	CY	500	\$ 15.00	\$ 7,500.00			\$ -	500	\$ 15.00	\$ 7,500.00
0198	Excavation	CY	1815	\$ 9.00	\$ 16,335.00			\$ -	1815	\$ 9.00	\$ 16,335.00
0199	Removal of Contaminated Soil	CY	4220	\$ 155.00	\$ 654,100.00			\$ -	4220	\$ 155.00	\$ 654,100.00
0200	Removal of Highly Contaminated Soil	CY	200	\$ 160.00	\$ 32,000.00			\$ -	200	\$ 160.00	\$ 32,000.00
0201	Mulching Type 1 - Hydro	SY	19700	\$ 0.42	\$ 8,274.00			\$ -	19700	\$ 0.42	\$ 8,274.00
0202	Seeding Type B	SY	19700	\$ 0.42	\$ 8,274.00			\$ -	19700	\$ 0.42	\$ 8,274.00
0203	Overseeding	SY	19700	\$ 0.11	\$ 2,167.00			\$ -	19700	\$ 0.11	\$ 2,167.00
0204	Weed Control Type B	SY	19700	\$ 0.07	\$ 1,379.00			\$ -	19700	\$ 0.07	\$ 1,379.00

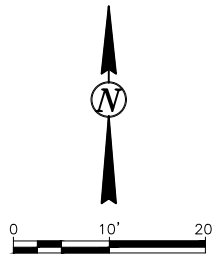
WP-42F.1S - 2nd Street/Downtown Area - In-Town Levees											
ITEM	DESCRIPTION	UNIT	Current Budget (Through Change Order 04)			Net Change			New Budget		
			QUANTITY	UNIT PRICE	AMOUNT	QUANTITY	UNIT PRICE	AMOUNT	QUANTITY	UNIT PRICE	AMOUNT
0205	Removable Floodwall	SF	1475	\$ 110.00	\$ 162,250.00			\$ -	1475	\$ 110.00	\$ 162,250.00
0206	F&I Floodwall Reinf Bars - Steel	LB	484642	\$ 1.15	\$ 557,338.30			\$ -	484642	\$ 1.15	\$ 557,338.30
0207	F&I Floodwall Reinf Bars - Epoxy Coated Steel	LB	209152	\$ 1.30	\$ 271,897.60			\$ -	209152	\$ 1.30	\$ 271,897.60
0208	F&I Floodwall - Structural Conc	CY	3780	\$ 888.00	\$ 3,356,640.00			\$ -	3780	\$ 888.00	\$ 3,356,640.00
0209	Not Used				\$ -			\$ -			\$ -
0210	Diesel Generator	LS	1	\$ 410,000.00	\$ 410,000.00			\$ -	1	\$ 410,000.00	\$ 410,000.00
0211	Generator Foundation Pad	LS	1	\$ 40,000.00	\$ 40,000.00			\$ -	1	\$ 40,000.00	\$ 40,000.00
0212	Misc. (fence, etc.)	LS	1	\$ 25,000.00	\$ 25,000.00			\$ -	1	\$ 25,000.00	\$ 25,000.00
0213	Health and Safety	LS	1	\$ 20,000.00	\$ 20,000.00			\$ -	1	\$ 20,000.00	\$ 20,000.00
0214	Incentive	LS	1	\$ 150,000.00	\$ 150,000.00			\$ -	1	\$ 150,000.00	\$ 150,000.00
0215	Small Utility Work-Around	LS	1	\$ 169,490.20	\$ 169,490.20			\$ -	1	\$ 169,490.20	\$ 169,490.20
0216	Traffic Control Revisions and Concrete Barriers for Xcel Lines	LS	1	\$ 13,225.02	\$ 13,225.02			\$ -	1	\$ 13,225.02	\$ 13,225.02
0217	F&I Watermain Pipe C900 DR 18 - 10" Dia PVC	LF	792	\$ 52.50	\$ 41,580.00			\$ -	792	\$ 52.50	\$ 41,580.00
0218	F&I Watermain Pipe w/GB C900 DR 18 - 10" Dia PVC	LF	682	\$ 204.20	\$ 139,264.40			\$ -	682	\$ 204.20	\$ 139,264.40
0219	F&I Gate Valve 10" Dia.	EA	4	\$ 4,041.50	\$ 16,166.00			\$ -	4	\$ 4,041.50	\$ 16,166.00
0220	Paint Traffic Signal Poles	EA	9	\$ 4,235.00	\$ 38,115.00			\$ -	9	\$ 4,235.00	\$ 38,115.00
0221	Bridge Lighting	LS	1	\$ 1,815.00	\$ 1,815.00			\$ -	1	\$ 1,815.00	\$ 1,815.00
0222	Excavated Concrete Disposal	LS	1	\$ 1,443.46	\$ 1,443.46			\$ -	1	\$ 1,443.46	\$ 1,443.46
0223	Winter Traffic Control	LS	1	\$ 3,727.50	\$ 3,727.50			\$ -	1	\$ 3,727.50	\$ 3,727.50
0224	Pump Station Concrete Grading	LS	0	\$ -	\$ -	1	\$ 20,068.90	\$ 20,068.90	1	\$ 20,068.90	\$ 20,068.90
0225	Bridge Abutment Seal	LS	0	\$ -	\$ -	1	\$ 8,108.33	\$ 8,108.33	1	\$ 8,108.33	\$ 8,108.33
0226	Bridge Abutment Concrete Disposal	LS	0	\$ -	\$ -	1	\$ 4,256.28	\$ 4,256.28	1	\$ 4,256.28	\$ 4,256.28
0227	Additional H-Piling	LS	0	\$ -	\$ -	1	\$ 6,587.50	\$ 6,587.50	1	\$ 6,587.50	\$ 6,587.50
0228	Traffic Signal modifications	LS	0	\$ -	\$ -	1	\$ 29,722.00	\$ 29,722.00	1	\$ 29,722.00	\$ 29,722.00
<b>WP-42F.1S - TOTAL AMOUNT</b>			<b>CURRENT BUDGET</b>		<b>\$ 16,458,188.18</b>	<b>NET CHANGE</b>		<b>\$ 68,743.01</b>	<b>NEW BUDGET</b>		<b>\$ 16,533,518.69</b>



12/29/15 03:51:09PM H:\Fargo\JBN\7400\7438\12\_7438\_009\006-In-Town Levels Phase 1\CAD\2nd St. N\WP42F.1.S\95% Plans\090\_IntersectionPavingLayout\_CO3.dwg



This document was originally issued and sealed by Jeffrey T. Lansink Registration Number PE-5244 on 6/12/2015 and the original document is stored at CH2M Hill Engineering Inc., Fargo, N.D.



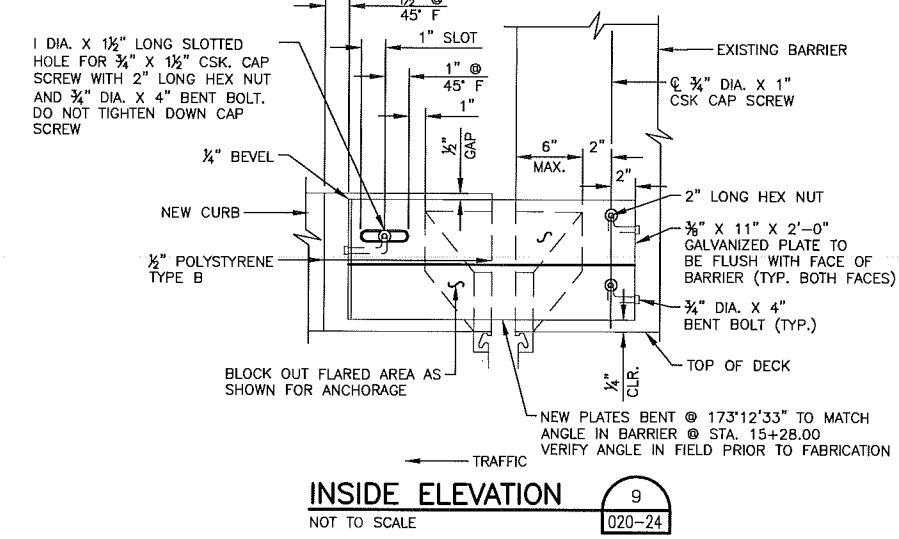
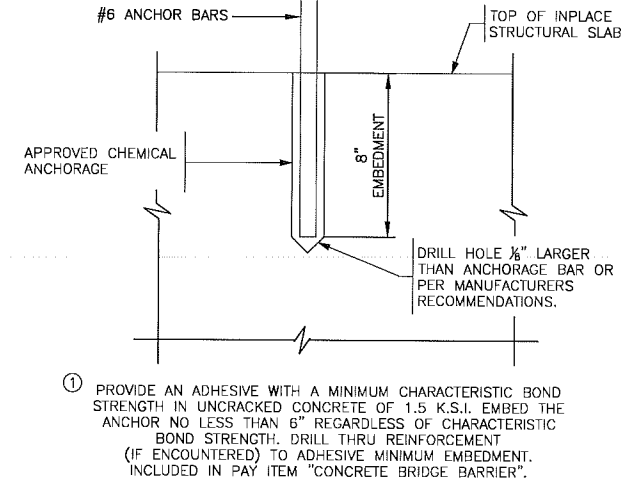
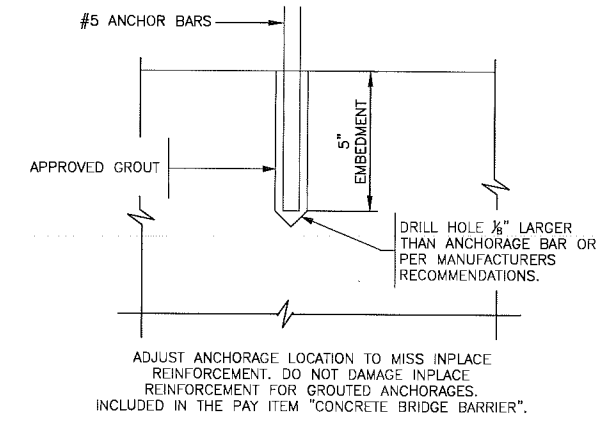
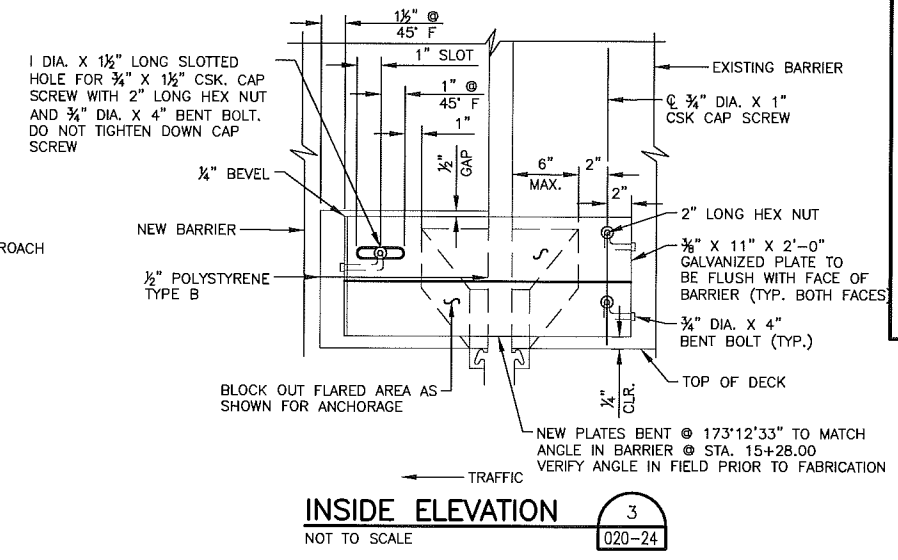
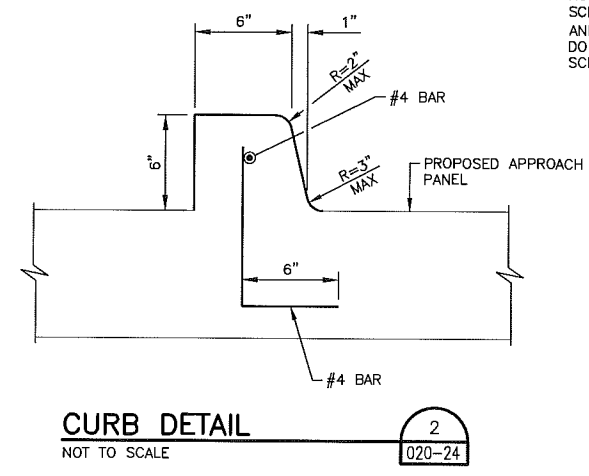
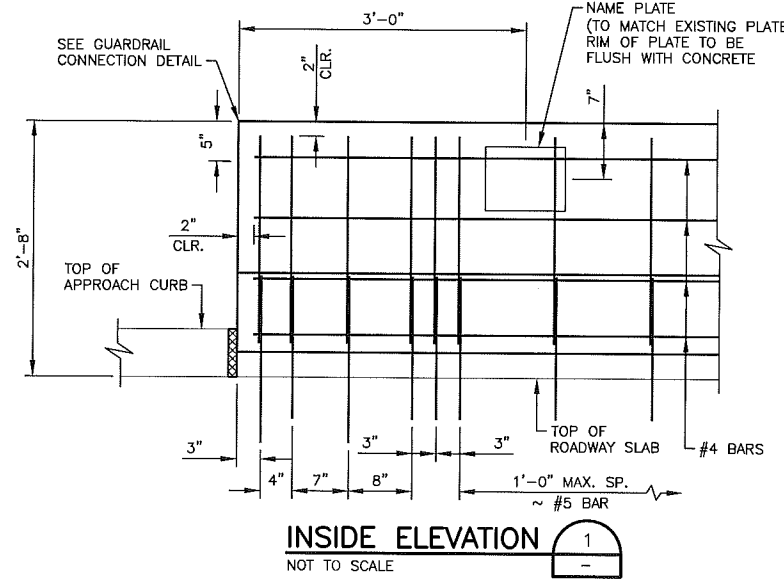
2ND STREET/DOWNTOWN - IN-TOWN LEVELS  
 2ND STREET N FLOODWALL  
 RED RIVER OF THE NORTH RIVER BASIN  
 FARGO-MOORHEAD FLOOD RISK MANAGEMENT  
 CASS COUNTY, NORTH DAKOTA  
 LIFT STATION GRADING DETAIL

ELEVATION DATUM (VERTICAL CONTROL) GEODIUS  
 COORDINATE SYSTEM (HORIZONTAL CONTROL) NAD 83 (1986) FARGO GROUND - US SURVEY FEET

DATE:	6-12-15
REVISED:	12-29-15
REVISED:	
REVISED:	
RECORD:	
FILE NAME:	
PROJECT No.	WP-42F.1.S
DRAWN BY:	AMR
CHECKED BY:	JTL, RGE
PROJ. MANAGER:	CGT
PROJ. ENGINEER:	

C-090-6

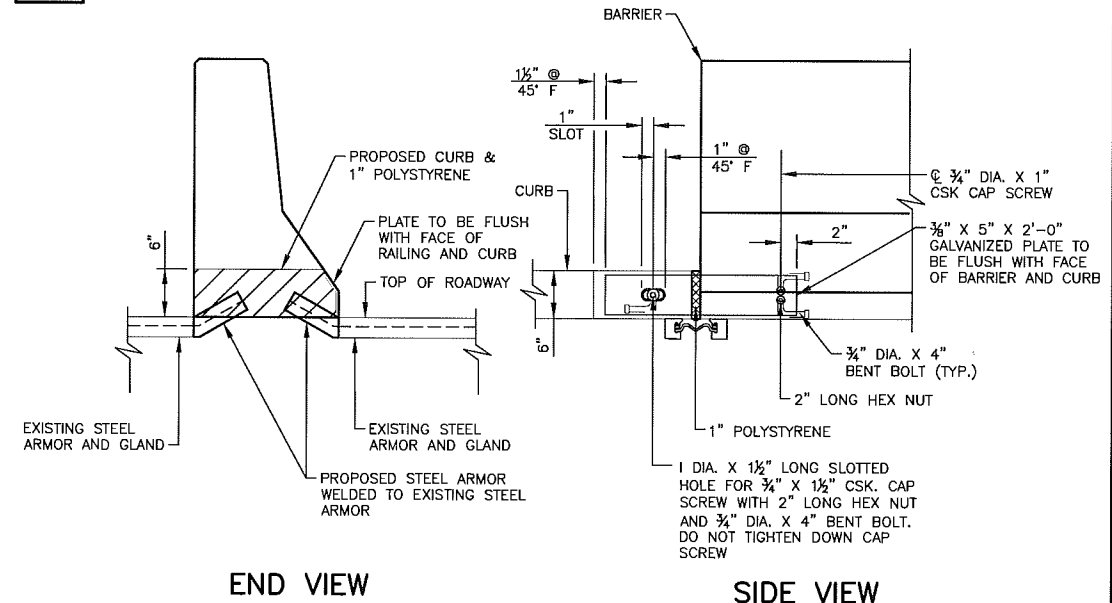
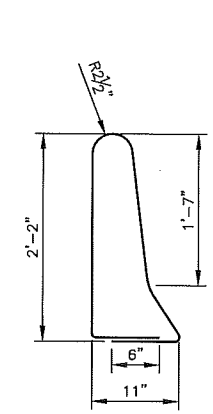
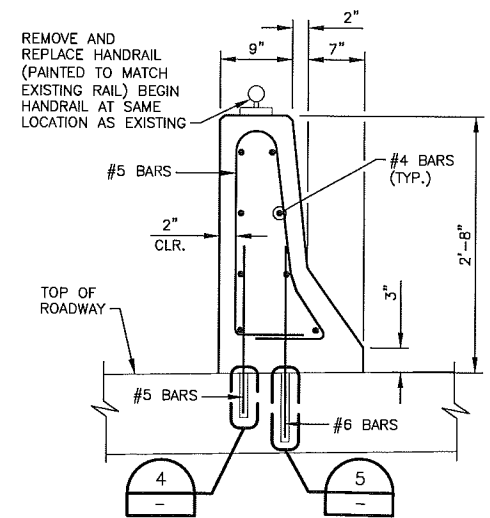
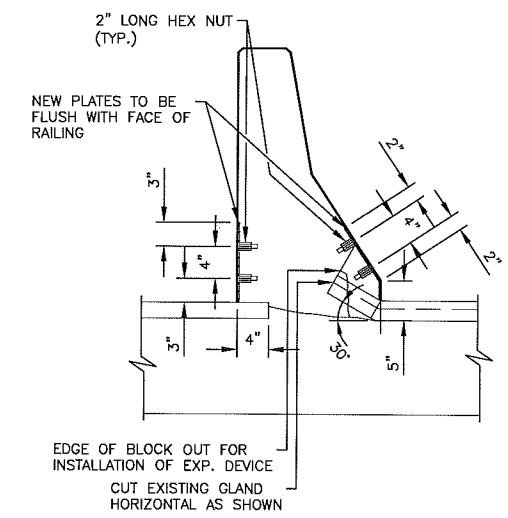
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**ADHESIVE ANCHORAGE DETAIL 4**  
NOT TO SCALE

**ADHESIVE ANCHORAGE DETAIL 5**  
NOT TO SCALE

**INSIDE ELEVATION 9**  
NOT TO SCALE



**TYPE J WAILING 6**  
NOT TO SCALE

**ANCHOR DETAIL 7**  
NOT TO SCALE

**#5 BENT BAR 8**  
NOT TO SCALE

**CURB TRANSITION 10**  
NOT TO SCALE

**PRELIMINARY**

**HMG**  
HOUSTON - MOORE GROUP

2ND STREET/DOWNTOWN - IN-TOWN LEVEES  
2ND STREET N FLOODWALL  
RED RIVER OF THE NORTH RIVER BASIN  
FARGO-MOORHEAD FLOOD RISK MANAGEMENT  
CASS COUNTY, NORTH DAKOTA  
1ST AVE N BRIDGE REMOVAL DETAILS

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

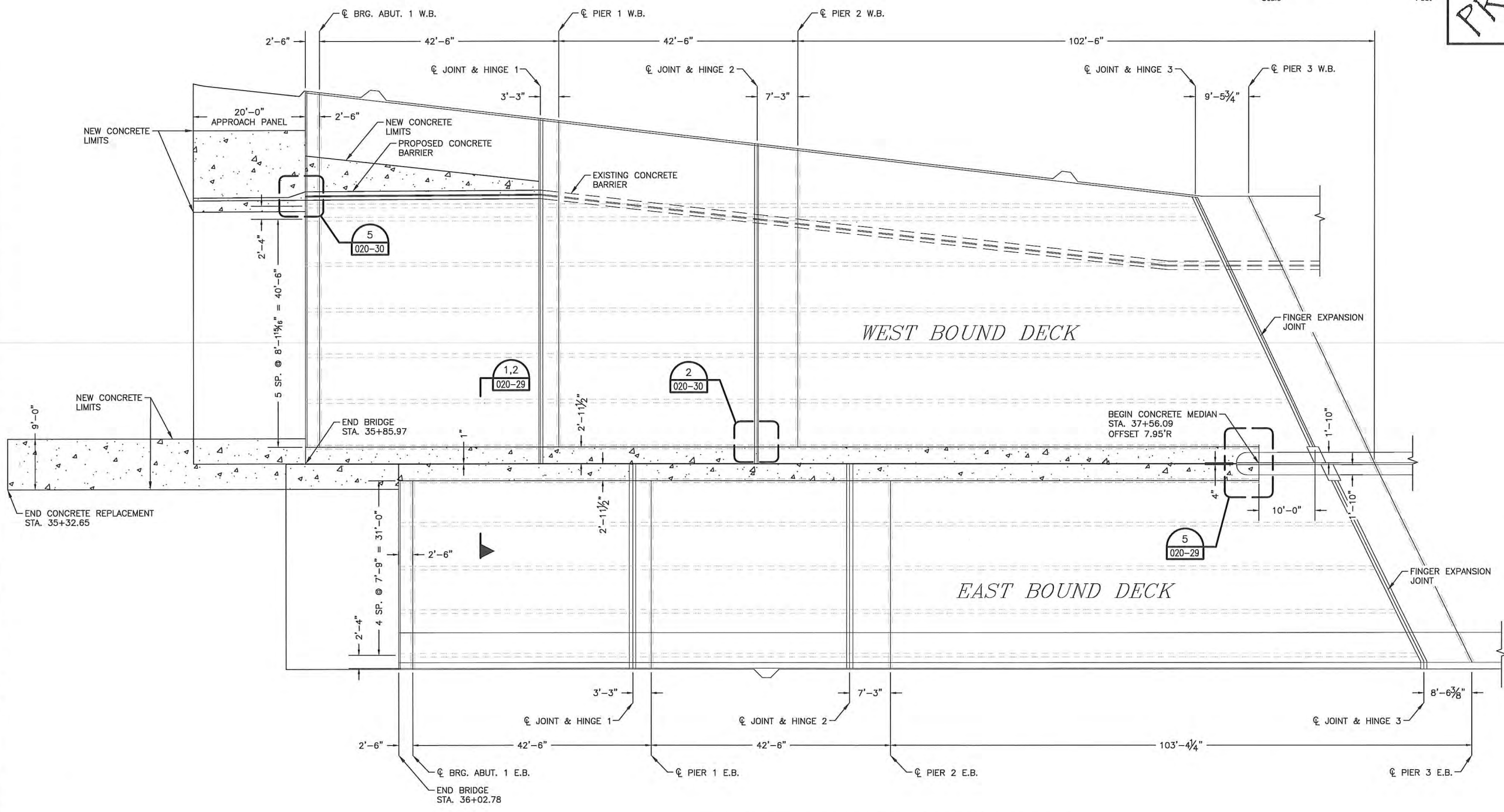
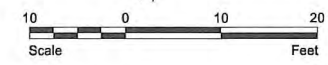
COORDINATE SYSTEM (VERTICAL CONTROL)  
NAVD 88  
GEOID03

DATE:	6-12-15
REVISED:	7-2-15
REVISED:	1-XX-16
REVISED:	
RECORD:	
FILE NAME:	
PROJECT No.	WP-42F.1.S
DRAWN BY:	JER
CHECKED BY:	JLM
PROJ. MANAGER:	CGT
PROJ. ENGINEER:	

**C-020-25**

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PRELIMINARY



1ST AVE BRIDGE PROPOSED LAYOUT 1  
NOT TO SCALE

**HMG**  
HOUSTON - MOORE GROUP

2ND STREET/DOWNTOWN - IN-TOWN LEVEES  
2ND STREET N FLOODWALL  
RED RIVER OF THE NORTH RIVER BASIN  
FARGO-MOORHEAD FLOOD RISK MANAGEMENT  
CASS COUNTY, NORTH DAKOTA  
1ST AVE N BRIDGE REMOVAL DETAILS

ELEVATION DATUM (VERTICAL CONTROL) COORDINATE SYSTEM (HORIZONTAL CONTROL)  
NAVD 88 GEOID03 NAD 83 (1986) FARGO GROUND - US SURVEY FEET

DATE:	6-12-15
REVISED:	7-2-15
REVISED:	
RECORD:	
FILE NAME:	
PROJECT No.	WP-42F.1.S
DRAWN BY:	JER
CHECKED BY:	JLM
PROJ. MANAGER:	CGT
PROJ. ENGINEER:	

C-020-28



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PRELIMINARY

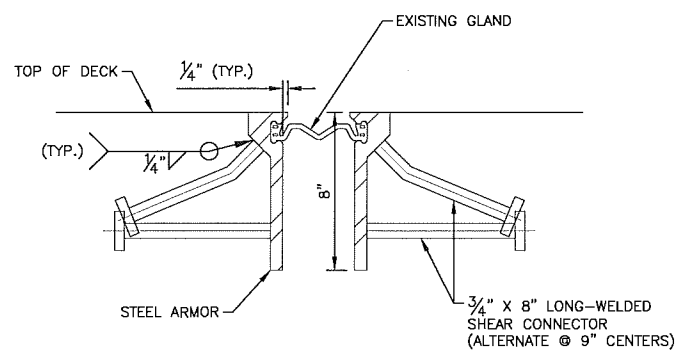
**HMG**  
HOUSTON - MOORE GROUP

2ND STREET/DOWNTOWN - IN-TOWN LEVEES  
2ND STREET N FLOODWALL  
RED RIVER OF THE NORTH RIVER BASIN  
FARGO-MOORHEAD FLOOD RISK MANAGEMENT  
CASS COUNTY, NORTH DAKOTA  
1ST AVE N BRIDGE REMOVAL DETAILS

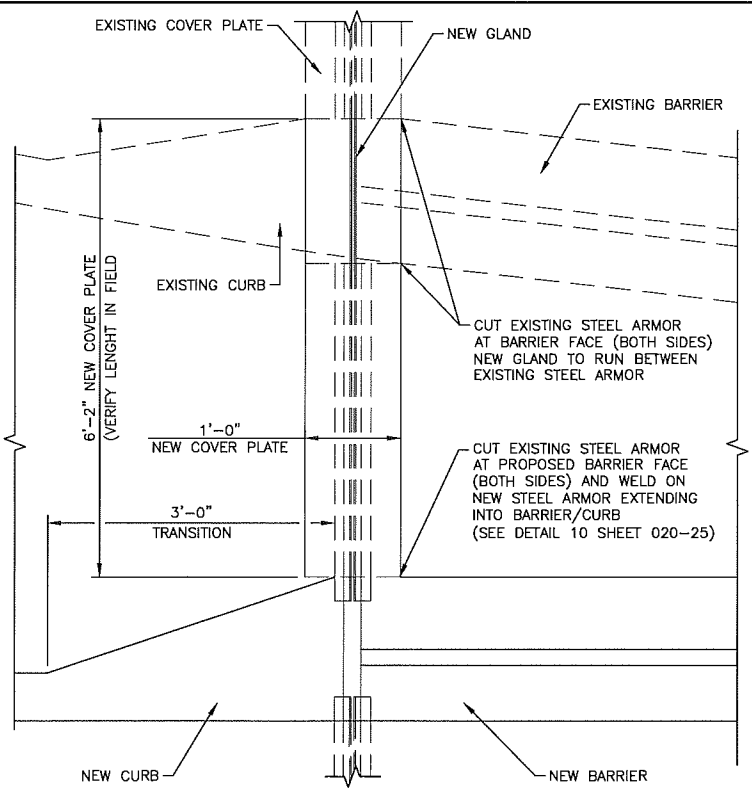
ELEVATION DATUM (VERTICAL CONTROL) COORDINATE SYSTEM (HORIZONTAL CONTROL)  
NAVD 88 (1988) NAD 83 (1983) FARGO GROUND - US SURVEY FEET  
GEODI03

DATE:	6-12-15
REVISED:	7-2-15
REVISED:	
REVISED:	
RECORD:	
FILE NAME:	
PROJECT No.	WP-42F.1.S
DRAWN BY:	JER
CHECKED BY:	JLM
PROJ. MANAGER:	CGT
PROJ. ENGINEER:	

C-020-30

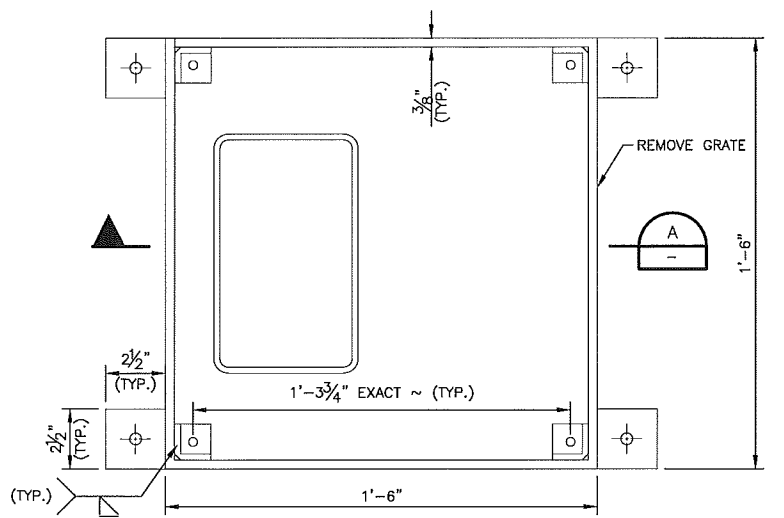


**STEEL ARMOR DETAIL** 1  
NOT TO SCALE

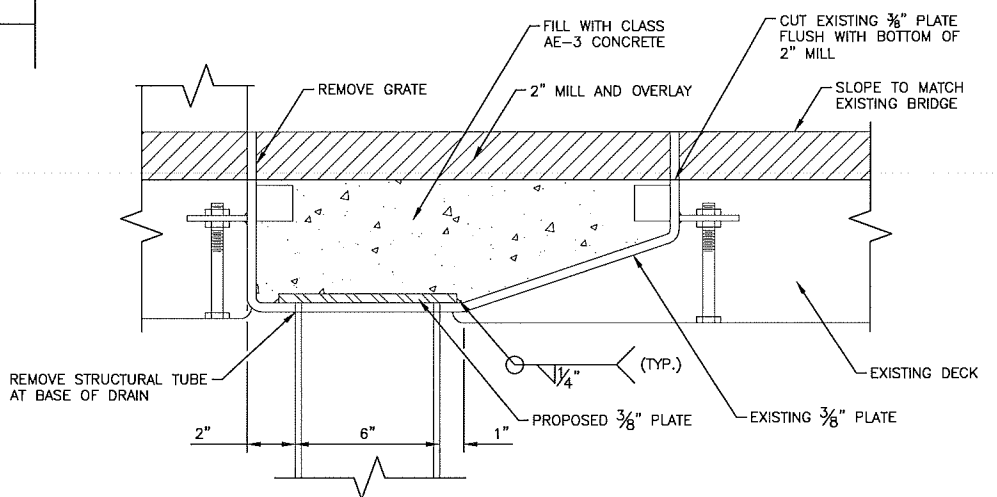


**CURB TRANSITION DETAIL** 5  
NOT TO SCALE

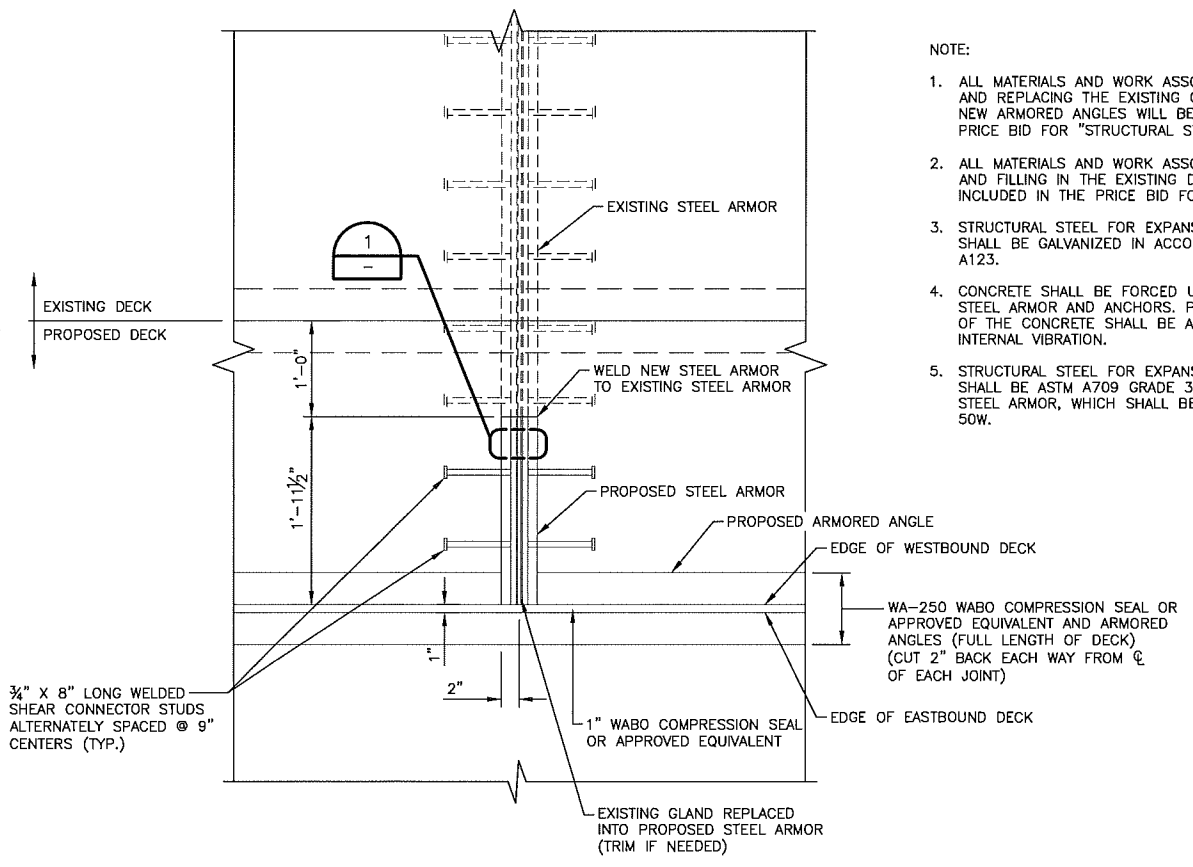
- NOTE:
1. ALL MATERIALS AND WORK ASSOCIATED WITH REMOVING AND REPLACING THE EXISTING GLAND AND PLACING THE NEW ARMORED ANGLES WILL BE INCLUDED IN THE PRICE BID FOR "STRUCTURAL STEEL".
  2. ALL MATERIALS AND WORK ASSOCIATED WITH REMOVING AND FILLING IN THE EXISTING DRAIN GRATE TO BE INCLUDED IN THE PRICE BID FOR OTHER ITEMS.
  3. STRUCTURAL STEEL FOR EXPANSION JOINT SYSTEM SHALL BE GALVANIZED IN ACCORDANCE WITH ASTM A123.
  4. CONCRETE SHALL BE FORCED UNDER AND AROUND STEEL ARMOR AND ANCHORS. PROPER CONSOLIDATION OF THE CONCRETE SHALL BE ACHIEVED BY LOCALIZED INTERNAL VIBRATION.
  5. STRUCTURAL STEEL FOR EXPANSION JOINT SYSTEM SHALL BE ASTM A709 GRADE 36, EXCEPT FOR THE STEEL ARMOR, WHICH SHALL BE ASTM A709 GRADE 50W.



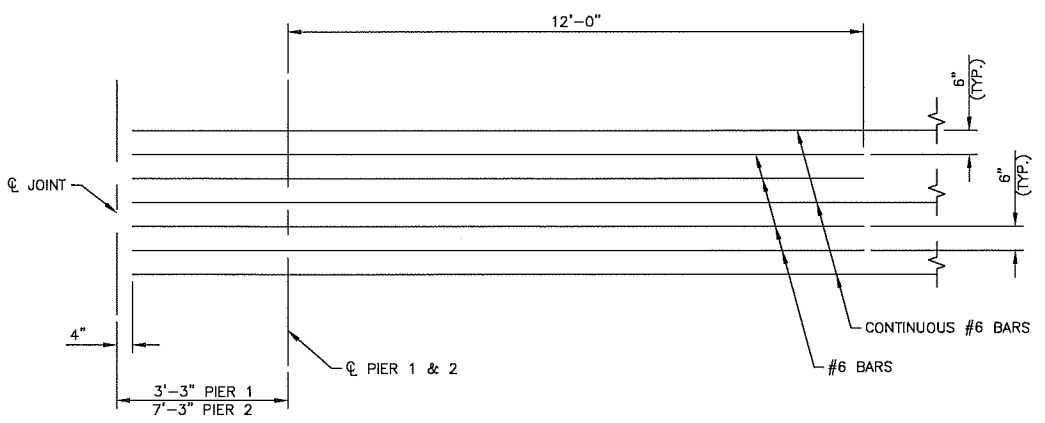
**DRAIN DETAIL** 4  
NOT TO SCALE



**DETAIL "A"** A  
NOT TO SCALE



**PART PLAN** 2  
TYP. AT ALL EXPANSION DEVICES



**ADDITIONAL TOP REINF. OVER PIERS** 3  
NOT TO SCALE

**DRAFT**



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

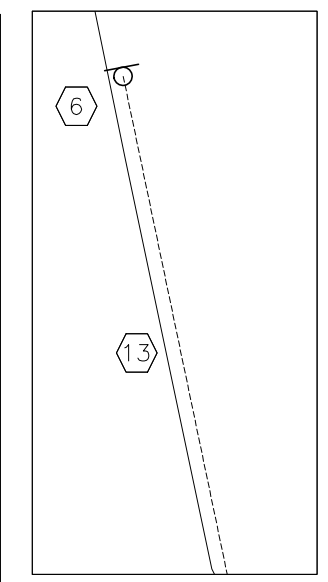
COORDINATE SYSTEM (HORIZONTAL CONTROL)  
 NAD 83 (1986)  
 FARGO GROUND - US SURVEY FEET

ELEVATION DATUM (VERTICAL CONTROL)  
 NAVD 88  
 GEOID03

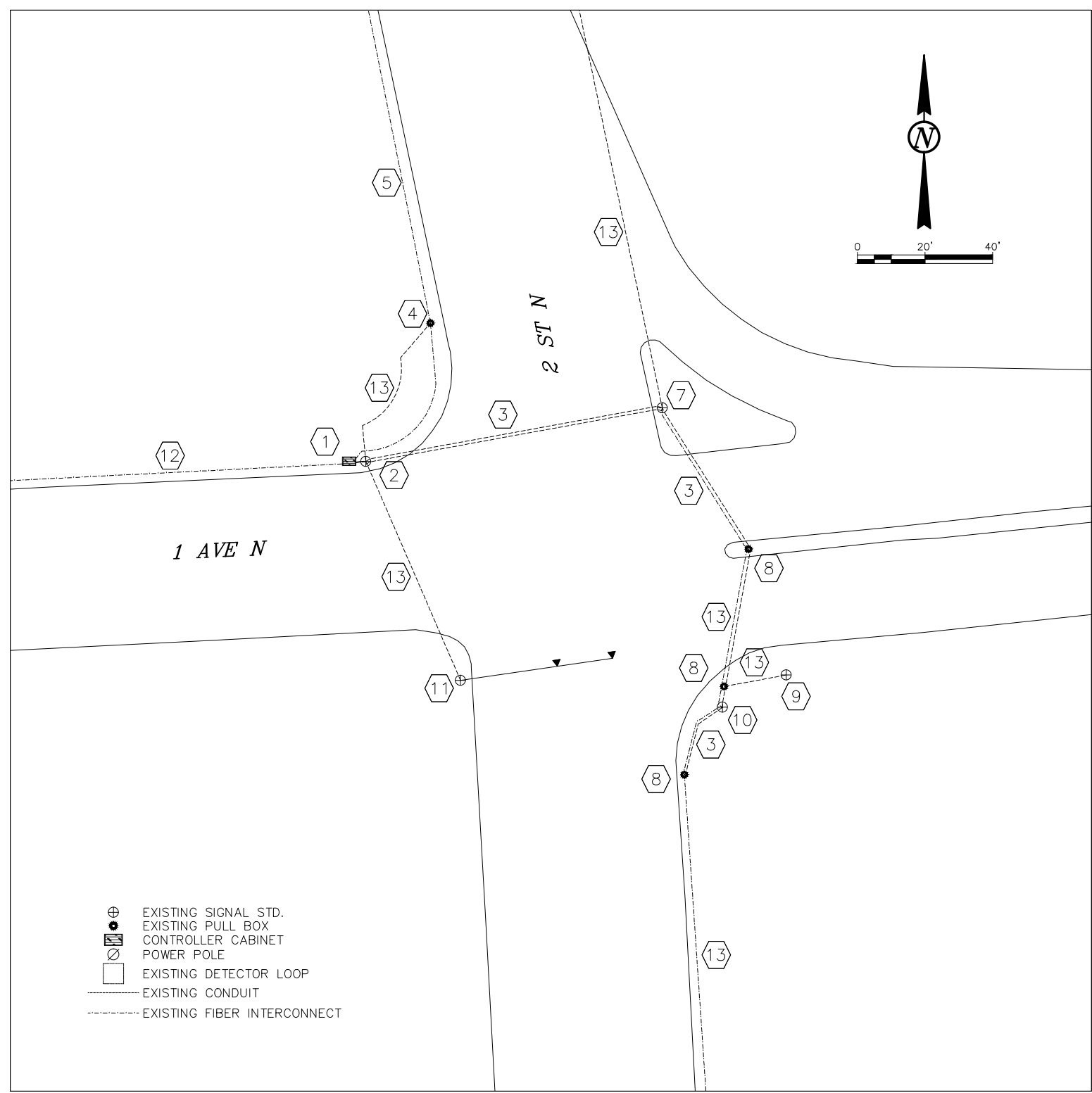
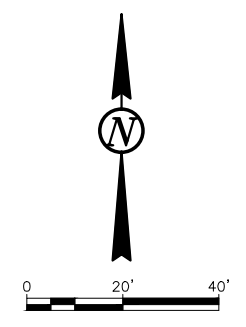
DATE:	6-12-15
REVISED:	XXX
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RECORD:	
FILE NAME:	
PROJECT No.	---
DRAWN BY:	MAB,CWB
CHECKED BY:	NJE
PROJ. MANAGER:	CGT
PROJ. ENGINEER:	

**C-150-1**

**TRAFFIC SIGNAL PLANS  
 SIGNAL REMOVALS  
 SYSTEM "A"  
 1 AVE N & 2 ST N**



- 1 REMOVE AND SALVAGE EXISTING TRAFFIC SIGNAL CONTROLLER CABINET. REMOVE CABINET FOUNDATION. REMOVE AND SALVAGE EXISTING SIGNAL WIRE AND RETURN TO THE CITY OF FARGO.
- 2 REMOVE AND SALVAGE EXISTING TRAFFIC SIGNAL STANDARD, MAST ARM, LUMINAIRE AND LUMINAIRE EXTENSION, ALL SIGNAL AND PEDESTRIAN HEADS, PTZ CAMERA, SIGNS AND EVP EQUIPMENT. RETURN TO THE CITY OF FARGO. REMOVE FOUNDATION.
- 3 REMOVE TWO CONDUITS AND WIRE. (SEE CIVIL REMOVALS PLAN). RETURN TO THE CITY OF FARGO.
- 4 REMOVE FIBER OPTIC HH AND FIBER OPTIC INTERCONNECT. RETURN TO THE CITY OF FARGO.
- 5 REMOVE CONDUIT AND FIBER OPTIC INTERCONNECT. (SEE CIVIL REMOVALS PLAN). RETURN TO THE CITY OF FARGO.
- 6 COORDINATE WITH POWER COMPANY TO REMOVE POWER. REMOVE POLE MOUNTED FEED POINT.
- 7 REMOVE AND SALVAGE EXISTING TRAFFIC SIGNAL STANDARD, MAST ARM, LUMINAIRE AND LUMINAIRE EXTENSION, ALL SIGNAL AND PEDESTRIAN HEADS, SIGNS. RETURN TO THE CITY OF FARGO. REMOVE FOUNDATION.
- 8 REMOVE PULLBOX AND WIRE AND RETURN TO THE CITY OF FARGO.
- 9 REMOVE AND SALVAGE EXISTING TRAFFIC SIGNAL STANDARD, MAST ARM, ALL SIGNAL HEADS, VIDEO DETECTION CAMERA, SIGNS, AND EVP EQUIPMENT. RETURN TO THE CITY OF FARGO. REMOVE FOUNDATION.
- 10 REMOVE AND SALVAGE EXISTING TRAFFIC SIGNAL PEDESTAL, ALL PEDESTRIAN HEADS AND RETURN TO THE CITY OF FARGO. REMOVE FOUNDATION.
- 11 REMOVE AND SALVAGE TRAFFIC SIGNAL STANDARD, MAST ARM, LUMINAIRE AND LUMINAIRE EXTENSION, ALL SIGNAL HEADS, ALL PEDESTRIAN HEADS, AND SIGNS. RETURN TO THE CITY OF FARGO. REMOVE FOUNDATION.
- 12 REMOVE BACK TO 4TH STREET AND RETURN TO THE CITY OF FARGO.
- 13 REMOVE CONDUIT AND WIRE. (SEE CIVIL REMOVALS PLAN). RETURN TO THE CITY OF FARGO.



- ⊕ EXISTING SIGNAL STD.
- EXISTING PULL BOX
- ⊠ EXISTING CONTROLLER CABINET
- ⊙ EXISTING POWER POLE
- EXISTING DETECTOR LOOP
- EXISTING CONDUIT
- - - EXISTING FIBER INTERCONNECT

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REVISED: XX-XX-XXXX

DRAFT

HMG HOUSTON - MOORE GROUP

2ND STREET/DOWNTOWN - IN-TOWN LEVEES  
2ND STREET N FLOODWALL  
RED RIVER OF THE NORTH RIVER BASIN  
FARGO-MOORHEAD FLOOD RISK MANAGEMENT  
CASS COUNTY, NORTH DAKOTA  
TRAFFIC SIGNALS

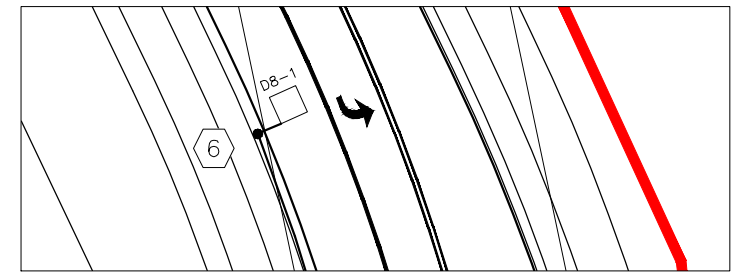
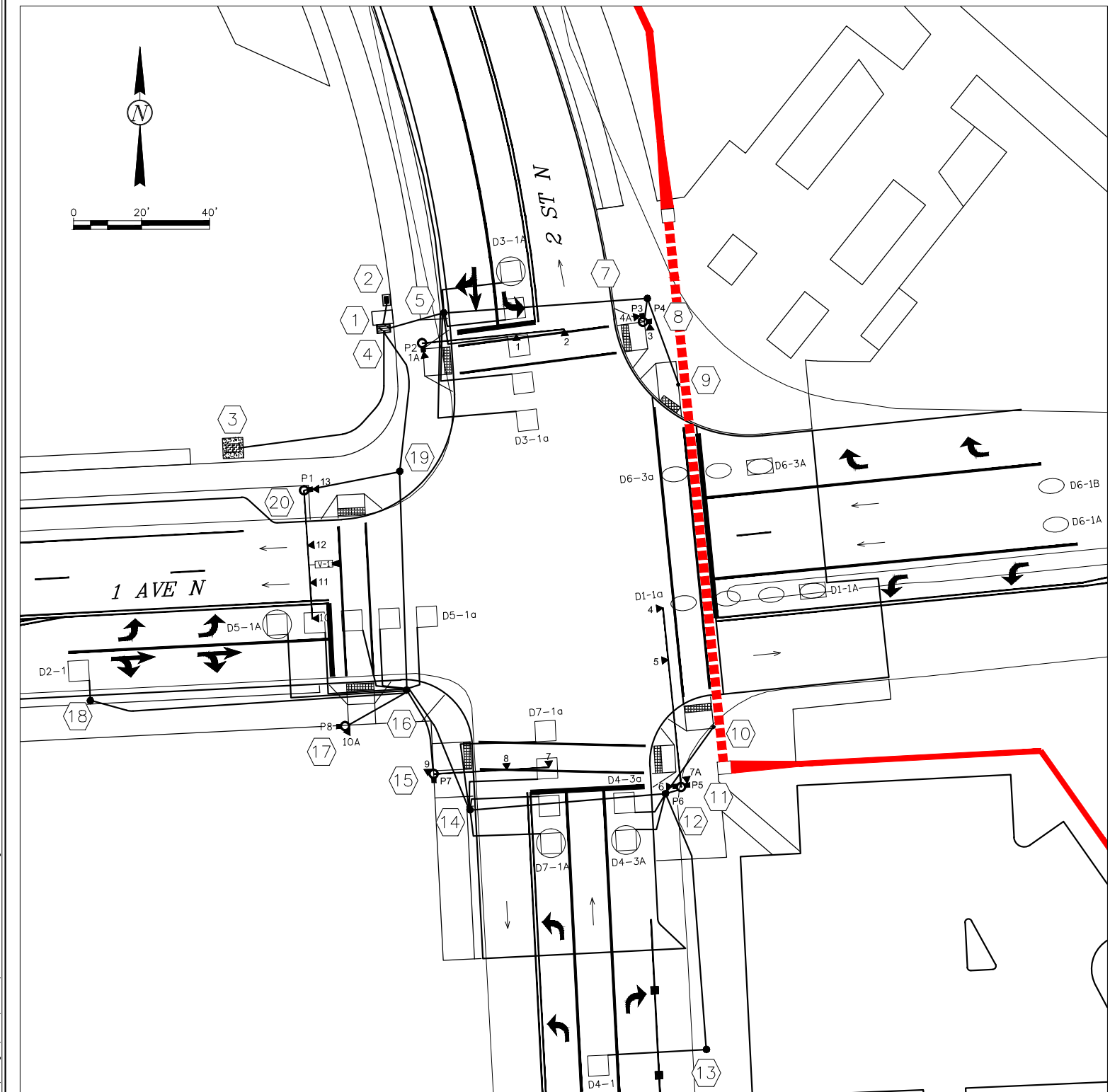
COORDINATE SYSTEM (HORIZONTAL CONTROL)  
NAD 83 (1986)  
FARGO GROUND - US SURVEY FEET

ELEVATION DATUM (VERTICAL CONTROL)  
NAVD 88  
GEOID03

DATE:	6-12-15
REVISED:	XXX
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RECORD:	
FILE NAME:	
PROJECT No.	---
DRAWN BY:	MAB,CWB
CHECKED BY:	NJE
PROJ. MANAGER:	CGT
PROJ. ENGINEER:	

C-150-2

TRAFFIC SIGNAL PLANS  
NEW SIGNAL LAYOUT  
SYSTEM "A"  
1 AVE N & 2 ST N



LEGEND:

Quartzite Pull Box	New Signal Std.
Detector Loops	Flasher
Feed Point	EVP Detector
Controller Cabinet	Confirmation Light
Existing Signal Std.	Ped. Head
Existing Pull Box	Vehicle Head
New Pull Box	Conduit
Ped. Post	Existing Conduit
Utility Pole	Signal Fiber Line

- 1 FURNISH AND INSTALL TRAFFIC SIGNAL CABINET FOUNDATION AND WORKING SLAB. FURNISH AND INSTALL FARGO TYPE B CABINET WITH BATTERY BACK UP. THE CABINET DOOR SHALL FACE NORTH, AND BE RIGHT HINGED.
- 2 FURNISH AND INSTALL FEED POINT CABINET FOUNDATION. FURNISH AND INSTALL FEED POINT CABINET. PROVIDE 2 SPARE 2" CONDUITS IN THE FOUNDATION GOING OUT TO THE NORTH AND WEST. THE CABINET DOOR SHALL FACE EAST.
- 3 FURNISH AND INSTALL 2" CONDUIT TO EXISTING POLYMER CONCRETE FIBER OPTIC PULL BOX. CONNECT TO EXISTING CONDUIT STUBOUT.
- 4 FURNISH AND INSTALL CONCRETE TRAFFIC SIGNAL FOUNDATION. FURNISH AND INSTALL TYPE IV SIGNAL STANDARD WITH 42' MAST ARM. FURNISH AND INSTALL 2-CIRCUIT EVP DETECTOR AND CONFIRMATION LIGHT. FURNISH AND INSTALL APS PEDESTRIAN PUSH BUTTON FACING SOUTH WITH A RIGHT ARROW.
- 5 FURNISH AND INSTALL PVC PULL BOX. FURNISH AND INSTALL 5-6' x 6' LOOPS(D3-1A/D3-1a).
- 6 FURNISH AND INSTALL PVC PULL BOX. FURNISH AND INSTALL 1-6' x 6" LOOP(D8-1).
- 7 FURNISH AND INSTALL PVC PULL BOX.
- 8 FURNISH AND INSTALL CONCRETE TRAFFIC SIGNAL FOUNDATION. FURNISH AND INSTALL TYPE V/COMBO SIGNAL STANDARD. FURNISH AND INSTALL APS PEDESTRIAN PUSH BUTTON FACING SOUTH WITH A LEFT ARROW.
- 9 FURNISH AND INSTALL PUSH BUTTON POST WITH APS PEDESTRIAN PUSH BUTTON FACING WEST WITH A RIGHT ARROW.
- 10 FURNISH AND INSTALL PUSH BUTTON POST WITH APS PEDESTRIAN PUSH BUTTON FACING WEST WITH A LEFT ARROW.
- 11 FURNISH AND INSTALL CONCRETE TRAFFIC SIGNAL FOUNDATION. FURNISH AND INSTALL TYPE IV/COMBO SIGNAL STANDARD WITH 53' MAST ARM. FURNISH AND INSTALL CONFIRMATION LIGHT. FURNISH AND INSTALL APS PEDESTRIAN PUSH BUTTON FACING NORTH WITH A RIGHT ARROW.
- 12 FURNISH AND INSTALL PVC PULL BOX. FURNISH AND INSTALL 2-6' x 6' LOOPS(D4-3A/D4-3a).
- 13 FURNISH AND INSTALL PVC PULL BOX. FURNISH AND INSTALL 1-6' x 6' LOOP(D4-1).
- 14 FURNISH AND INSTALL PVC PULL BOX. FURNISH AND INSTALL 4-6' x 6' LOOPS(D7-1A/D7-1a).
- 15 FURNISH AND INSTALL CONCRETE TRAFFIC SIGNAL FOUNDATION. FURNISH AND INSTALL TYPE IV/COMBO SIGNAL STANDARD WITH 34' MAST ARM. FURNISH AND INSTALL 721 EVP DETECTOR AND CONFIRMATION LIGHT. FURNISH AND INSTALL APS PEDESTRIAN PUSH BUTTON FACING NORTH WITH A LEFT ARROW.
- 16 FURNISH AND INSTALL PVC PULL BOX. FURNISH AND INSTALL 5-6' x 6' LOOPS(D5-1A/D5-1a).
- 17 FURNISH AND INSTALL CONCRETE TRAFFIC SIGNAL FOUNDATION. FURNISH AND INSTALL TYPE V/COMBO SIGNAL STANDARD. FURNISH AND INSTALL APS PEDESTRIAN PUSH BUTTON FACING EAST WITH A RIGHT ARROW.
- 18 FURNISH AND INSTALL PVC PULL BOX. FURNISH AND INSTALL 1-6' x 6' LOOP(D2-1).
- 19 FURNISH AND INSTALL PVC PULL BOX.
- 20 FURNISH AND INSTALL CONCRETE TRAFFIC SIGNAL FOUNDATION. FURNISH AND INSTALL TYPE IV/COMBO SIGNAL STANDARD WITH 38' MAST ARM. FURNISH AND INSTALL 2-CIRCUIT EVP DETECTOR AND CONFIRMATION LIGHT. FURNISH AND INSTALL VIDEO DETECTOR CAMERA, AND SETUP DETECTION ZONES. FURNISH AND INSTALL APS PEDESTRIAN PUSH BUTTON FACING EAST WITH A LEFT ARROW.

NOTE: CONTRACTOR SHALL ADJUST PULL BOXES TO ALIGN WITHIN CONTROL JOINT PATTERN IN SIDEWALK AND INTEGRAL COLORED CONCRETE AREA. CONTRACTOR SHALL AVOID PLACING PULL BOXES AT OR ON CONTROL JOINTS.

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REVISED: XX-XX-XXXX

DRAFT

HMG

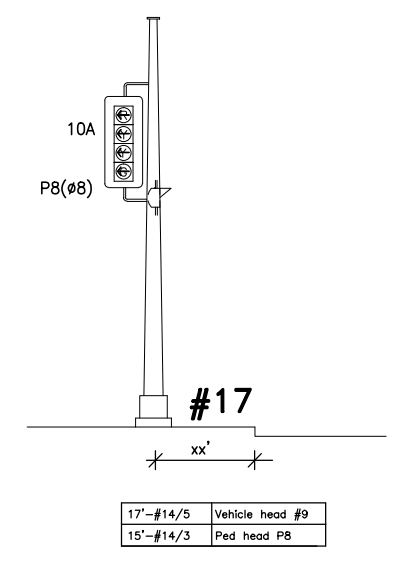
HOUSTON - MOORE GROUP

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

DATE:	6-12-15
REVISED:	XXX
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RECORD:	
FILE NAME:	
PROJECT No.	---
DRAWN BY:	MAB,CWB
CHECKED BY:	NJE
PROJ. MANAGER:	CGT
PROJ. ENGINEER:	

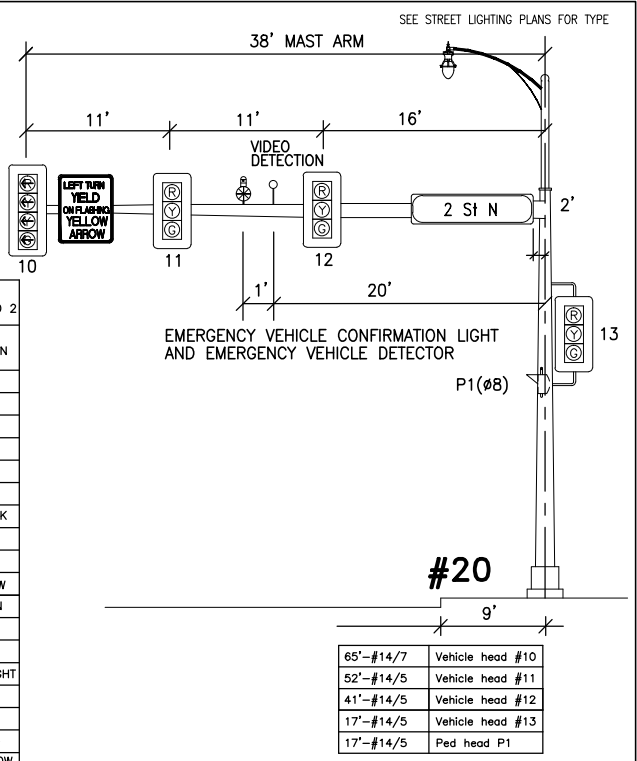
C-150-3

**Ø1 & Ø6 WEST-BOUND APPROACH**



CONDUCTORS		CABLE 5 (14-20)	#15 WB STD 1
BASE	TRACER	HEAD	INDICATION
1	BLACK	P8	Ø8 WALK
2	WHITE		NEUTRAL
3	RED		SPARE
4	GREEN		GROUND
5	ORANGE		SPARE
6	BLUE		SPARE
7	WHITE	BLACK	P8 Ø8 DT. WALK
8	RED	BLACK	SPARE
9	GREEN	BLACK	SPARE
10	ORANGE	BLACK	SPARE
11	BLUE	BLACK	SPARE
12	BLACK	WHITE	SPARE
13	RED	WHITE	SPARE
14	GREEN	WHITE	EVP
15	BLUE	WHITE	SPARE
16	BLACK	RED	SPARE
17	WHITE	RED	10 OLA FYA
18	ORANGE	RED	10 OLA YELLOW
19	BLUE	RED	10 Ø1 GREEN
20	RED	GREEN	10 OLA RED

CONDUCTORS		CABLE 1 (14-20)	#18 WB STD 2
BASE	TRACER	HEAD	INDICATION
1	BLACK	P1	Ø8 WALK
2	WHITE		NEUTRAL
3	RED		SPARE
4	GREEN		GROUND
5	ORANGE		SPARE
6	BLUE		SPARE
7	WHITE	BLACK	P1 Ø8 DT. WALK
8	RED	BLACK	11-13 Ø6 RED
9	GREEN	BLACK	SPARE
10	ORANGE	BLACK	11-13 Ø6 YELLOW
11	BLUE	BLACK	11-13 Ø6 GREEN
12	BLACK	WHITE	SPARE
13	RED	WHITE	SPARE
14	GREEN	WHITE	EVP PE1 IND LIGHT
15	BLUE	WHITE	SPARE
16	BLACK	RED	SPARE
17	WHITE	RED	10 OLA FYA
18	ORANGE	RED	10 OLA YELLOW
19	BLUE	RED	10 Ø1 GREEN
20	RED	GREEN	10 OLA RED



65'-#14/7	Vehicle head #10
52'-#14/5	Vehicle head #11
41'-#14/5	Vehicle head #12
17'-#14/5	Vehicle head #13
17'-#14/5	Ped head P1

**MASTARMS AND STANDARDS:**  
 All mastarms and standards shall be designed for a windload factor that accounts for the replacing of the end mastarm vehicle head with a 5-section cluster head and the addition of 10 square feet of sign area to the mastarm, with all other existing heads and signs shown on the 'Mastarm Detail Sheet'.

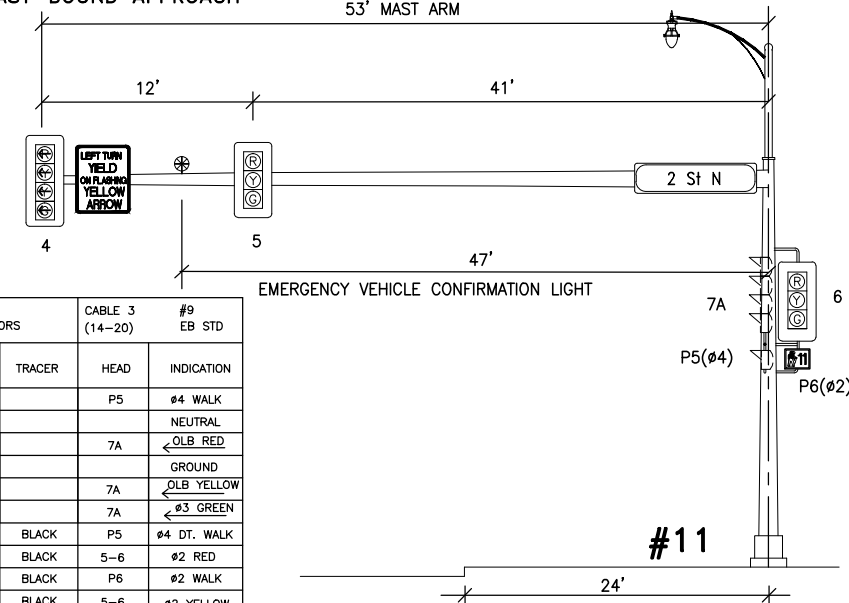
EACH VEHICLE/PEDESTRIAN HEAD CABLE SHALL BE LABELED WITH THE HEAD #.  
 EACH CABLE SHALL HAVE A SEPERATE TERMINAL BLOCK INSIDE THE T-BASE FOR TERMINATIONS.

**HEAD CONDUCTOR ASSIGNMENT**

CONDUCTORS	No.14 Awg 3 Ped. Heads		No.14 Awg 5 Veh. Heads	No.14 Awg 7 5-Section Veh. Heads	No.14 Awg 7 4-Section Veh. Heads
	BASE	TRACER	INDICATION	INDICATION	INDICATION
1	BLACK		WALK	GREEN	GREEN BALL
2	WHITE		NEUTRAL	NEUTRAL	NEUTRAL
3	RED		DT.WALK	RED	RED ARROW
4	GREEN			GROUND	GROUND
5	ORANGE			YELLOW	FLASHING YELLOW ARROW
6	BLUE			GREEN	GREEN ARROW
7	WHITE	BLACK		YELLOW	YELLOW ARROW

NOTE: All signal heads shall be SIG Polycarbonate. All back plates shall be louvered .063" thick aluminum.

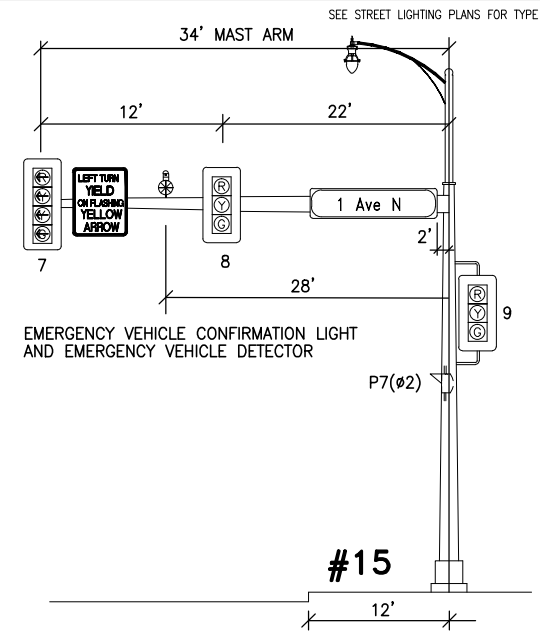
**Ø2 & Ø5 EAST-BOUND APPROACH**



CONDUCTORS		CABLE 3 (14-20)	#9 EB STD
BASE	TRACER	HEAD	INDICATION
1	BLACK	P5	Ø4 WALK
2	WHITE		NEUTRAL
3	RED	7A	ØLB RED
4	GREEN		GROUND
5	ORANGE	7A	ØLB YELLOW
6	BLUE	7A	Ø3 GREEN
7	WHITE	BLACK	P5 Ø4 DT. WALK
8	RED	BLACK	5-6 Ø2 RED
9	GREEN	BLACK	P6 Ø2 WALK
10	ORANGE	BLACK	5-6 Ø2 YELLOW
11	BLUE	BLACK	5-6 Ø2 GREEN
12	BLACK	WHITE	P6 Ø2 DT. WALK
13	RED	WHITE	SPARE
14	GREEN	WHITE	EVP PE2 IND LIGHT
15	BLUE	WHITE	7A ØLB FYA
16	BLACK	RED	SPARE
17	WHITE	RED	4 ØLC FYA
18	ORANGE	RED	4 ØLC YELLOW
19	BLUE	RED	4 Ø5 GREEN
20	RED	GREEN	4 ØLC RED

83'-#14/7	Vehicle head #4
71'-#14/5	Vehicle head #5
17'-#14/5	Vehicle head #6
17'-#14/7	Vehicle head #7A
15'-#14/3	Ped head P5
15'-#14/3	Ped head P6

**Ø3 & Ø8 SOUTH-BOUND APPROACH**

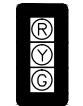


CONDUCTORS		CABLE 4 (14-20)	#13 SB STD
BASE	TRACER	HEAD	INDICATION
1	BLACK		SPARE
2	WHITE		NEUTRAL
3	RED	8-9	Ø8 RED
4	GREEN		GROUND
5	ORANGE	8-9	Ø8 YELLOW
6	BLUE	8-9	Ø8 GREEN
7	WHITE	BLACK	SPARE
8	RED	BLACK	SPARE
9	GREEN	BLACK	P7 Ø2 WALK
10	ORANGE	BLACK	SPARE
11	BLUE	BLACK	SPARE
12	BLACK	WHITE	P7 Ø2 DT. WALK
13	RED	WHITE	SPARE
14	GREEN	WHITE	EVP PE3 IND LIGHT
15	BLUE	WHITE	SPARE
16	BLACK	RED	SPARE
17	WHITE	RED	7 ØLB FYA
18	ORANGE	RED	7 ØLB YELLOW
19	BLUE	RED	7 Ø3 GREEN
20	RED	GREEN	7 ØLB RED

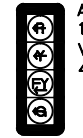
60'-#14/7	Vehicle head #7
48'-#14/5	Vehicle head #8
17'-#14/7	Vehicle head #10A
15'-#14/3	Ped head P7



ALL PEDESTRIAN HEADS  
 16" x 18" Filled Overlay  
 L.E.D. PEDESTRIAN HEAD  
 WITH PEDESTRIAN COUNT  
 DOWN TIMER



ALL L.E.D. SIGNAL HEADS  
 12" Lenses  
 VEHICLE HEADS  
 5,6,8,9,11,12,13



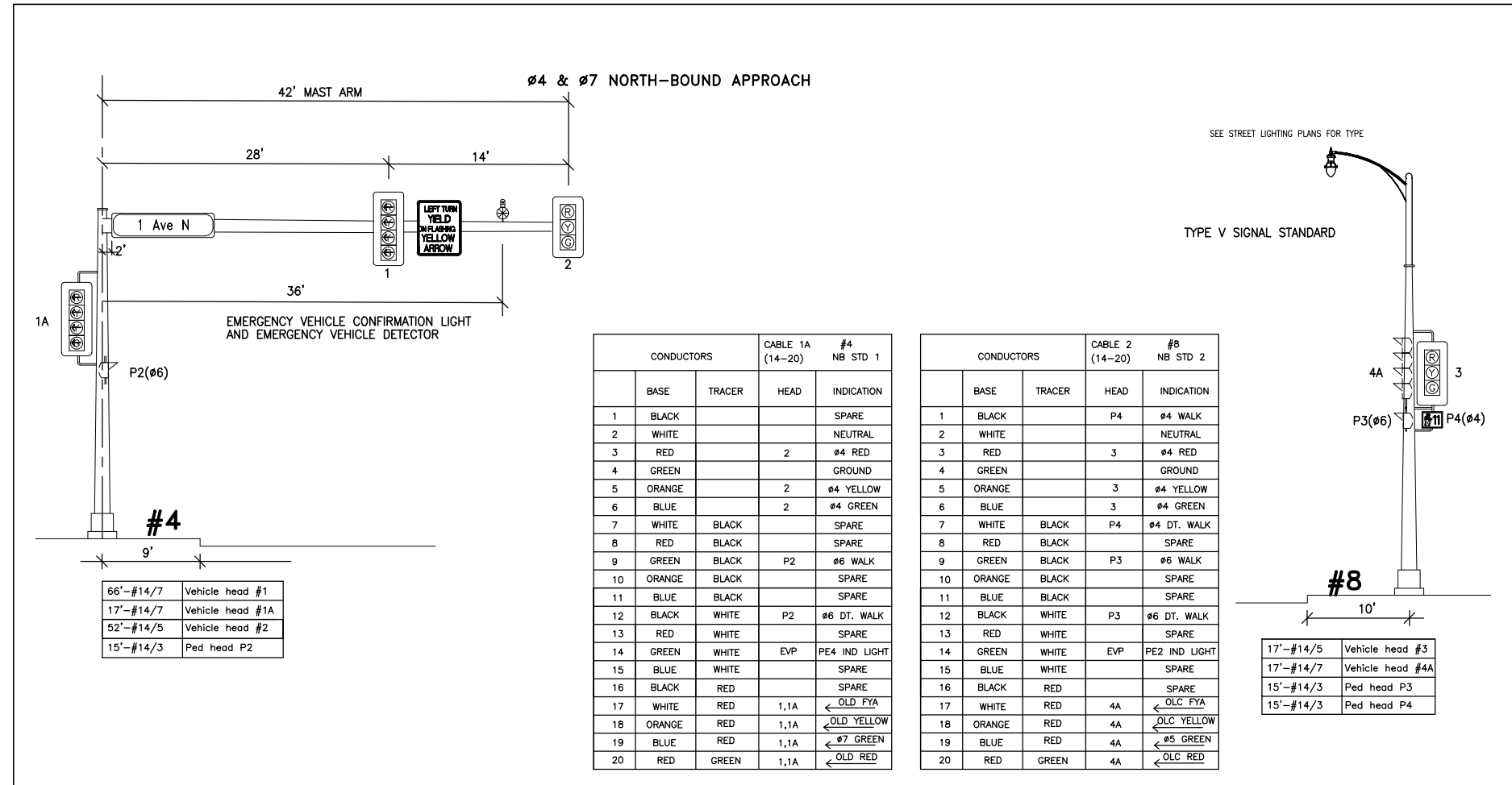
ALL L.E.D. SIGNAL HEADS  
 12" Lenses  
 VEHICLE HEADS  
 4,7,7A,10,10A

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TRAFFIC SIGNAL PLANS  
 TS STANDARDS - SHEET 1  
 SYSTEM "A"  
 1 AVE N & 2 ST N

COORDINATE SYSTEM (HORIZONTAL CONTROL)  
 NAD 83 (1986)  
 FARGO GROUND - US SURVEY FEET  
 ELEVATION DATUM (VERTICAL CONTROL)  
 NAVD 88  
 GEOID03

DRAFT



**MASTARMS AND STANDARDS:**  
 All mastarms and standards shall be designed for a windload factor that accounts for the replacing of the end mastarm vehicle head with a 5-section cluster head and the addition of 10 square feet of sign area to the mastarm, with all other existing heads and signs shown on the 'Mastarm Detail Sheet'.

EACH VEHICLE/PEDESTRIAN HEAD CABLE SHALL BE LABELED WITH THE HEAD #.  
 EACH CABLE SHALL HAVE A SEPERATE TERMINAL BLOCK INSIDE THE T-BASE FOR TERMINATIONS.

**HEAD CONDUCTOR ASSIGNMENT**

CONDUCTORS		No.14 Awg 3 Ped. Heads	No.14 Awg 5 Veh. Heads	No.14 Awg 7 5-Section Veh. Heads	No.14 Awg 7 4-Section Veh. Heads
BASE	TRACER	INDICATION	INDICATION	INDICATION	INDICATION
1	BLACK	WALK	GREEN	GREEN BALL	SPARE
2	WHITE	NEUTRAL	NEUTRAL	NEUTRAL	NEUTRAL
3	RED	DT.WALK	RED	RED	RED ARROW
4	GREEN		GROUND	GROUND	GROUND
5	ORANGE		YELLOW	YELLOW BALL	FLASHING YELLOW ARROW
6	BLUE			GREEN ARROW	GREEN ARROW
7	WHITE	BLACK		YELLOW ARROW	YELLOW ARROW

**NOTE:** All signal heads shall be SIG Polycarbonate, All back plates shall be louvered .063" thick aluminum.



ALL PEDESTRIAN HEADS  
 16" x 18" Filled Overlay  
 L.E.D. PEDESTRIAN HEAD  
 WITH PEDESTRIAN COUNT  
 DOWN TIMER



ALL L.E.D. SIGNAL HEADS  
 12" Lenses  
 VEHICLE HEADS  
 2,3



ALL L.E.D. SIGNAL HEADS  
 12" Lenses  
 VEHICLE HEADS  
 1,1A,4A

**HMG**  
 HOUSTON - MOORE GROUP

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

ELEVATION DATUM (VERTICAL CONTROL) COORDINATE SYSTEM (HORIZONTAL CONTROL)  
 NAVD 88 NAD 83 (1986)  
 FARGO GROUND - US SURVEY FEET  
 GEOID03

DATE:	6-12-15
REVISED:	XXX
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REVISED:	
RECORD:	
FILE NAME:	
PROJECT No.	---
DRAWN BY:	MAB,CWB
CHECKED BY:	NJE
PROJ. MANAGER:	CGT
PROJ. ENGINEER:	

TRAFFIC SIGNAL PLANS  
 TS STANDARDS - SHEET 2  
 SYSTEM "A"  
 1 AVE N & 2 ST N

C-150-4



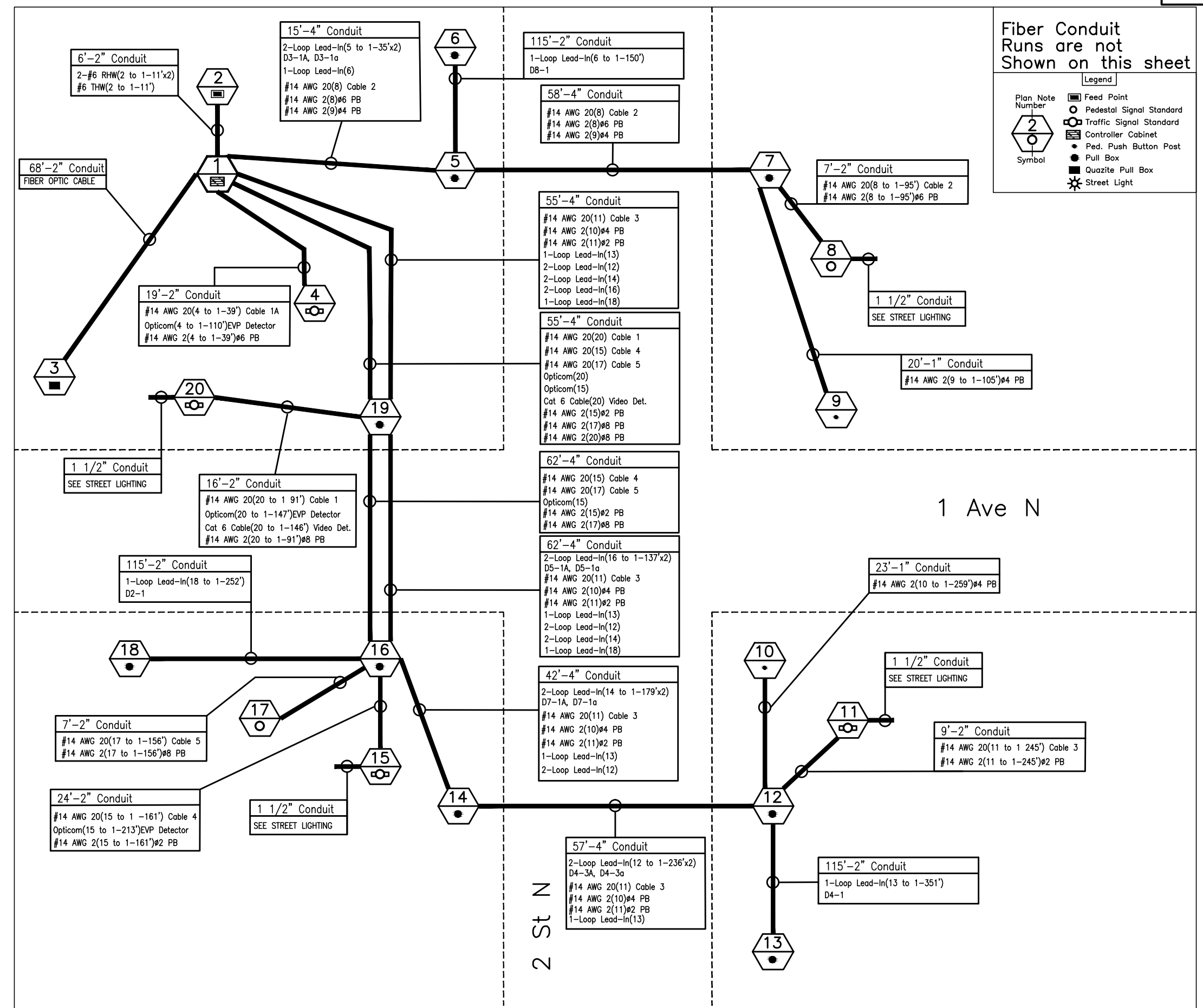
DRAFT

Fiber Conduit Runs are not Shown on this sheet

Legend

- Feed Point
- Pedestal Signal Standard
- Traffic Signal Standard
- Controller Cabinet
- Ped. Push Button Post
- Pull Box
- Quazite Pull Box
- Street Light

Plan Note Number Symbol



HMG HOUSTON - MOORE GROUP

2ND STREET/DOWNTOWN - IN-TOWN LEEVES  
2ND STREET N FLOODWALL  
RED RIVER OF THE NORTH RIVER BASIN  
FARGO-MOORHEAD FLOOD RISK MANAGEMENT  
CASS COUNTY, NORTH DAKOTA  
TRAFFIC SIGNALS

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

ELEVATION DATUM (VERTICAL CONTROL)  
NAVD 88  
GEOID03

DATE:	6-12-15
REVISED:	XXX
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RECORD:	
FILE NAME:	
PROJECT No.	---
DRAWN BY:	MAB,CWB
CHECKED BY:	NJE
PROJ. MANAGER:	CGT
PROJ. ENGINEER:	

C-150-5

TRAFFIC SIGNAL PLANS  
WIRING DIAGRAM  
SYSTEM "A"  
1 AVE N & 2 ST N

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HOUSTON - MOORE GROUP

2ND STREET/DOWNTOWN - IN-TOWN LEVEES  
 2ND STREET N FLOODWALL  
 RED RIVER OF THE NORTH RIVER BASIN  
 FARGO-MOORHEAD FLOOD RISK MANAGEMENT  
 CASS COUNTY, NORTH DAKOTA  
 TRAFFIC SIGNALS

DATE:	6-12-15
REVISED:	XXX
REVISED:	
RECORD:	
FILE NAME:	
PROJECT No.:	---
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PROJ. MANAGER:	CGT
PROJ. ENGINEER:	

C-150-6

COORDINATE SYSTEM (HORIZONTAL CONTROL)  
 NAD 83 (1986)  
 FARGO GROUND - US SURVEY FEET  
 ELEVATION DATUM (VERTICAL CONTROL)  
 NAVD 88  
 GEOID03

HEAD NUMBER	Phase 1				Phase 2				Phase 3				Phase 4				Phase 5				Phase 6				Phase 7				Phase 8				OLA				OLB				OLC				OLD											
	R	L	W	A	R	L	W	A	R	L	W	A	R	L	W	A	R	L	W	A	R	L	W	A	R	L	W	A	R	L	W	A	R	L	W	A	R	L	W	A	R	L	W	A	R	L	W	A								
1,1A																																																								
2,3																																																								
4,4A																																																								
5,6																																																								
7,7A																																																								
8,9																																																								
10,10A																																																								
11,12,13																																																								

**CHART "A"**  
 Non-Conflicting Phase Allowed to Time Concurrently

1	5,6,OLC
2	5,6,OLA,OLC
3	7,8,OLD
4	7,8,OLB,OLD
5	1,2,OLA
6	1,2,OLA,OLC
7	3,4,OLB
8	3,4,OLB,OLD
OLA	2,5,6,OLC
OLB	4,7,8,OLD
OLC	1,2,6,OLA
OLD	3,4,8,OLB

Blank Squares Denote a Red Indication.

(A) Only upon pedestrian actuation.

(B) When one phase is on alone, any nonconflicting phase may start timing concurrently without a clearance interval. (See Chart "A")

(C) Flashing yellow left turn arrow (protected/permissive mode and permissive only mode) or red turn arrow (protected only mode)

(D) Solid yellow left turn arrow (protected/permissive mode and permissive only mode) or red turn arrow (protected only mode)

THE CITY WILL PROGRAM THE SIGNAL TIMING INTO THE CONTROLLER PRIOR TO START UP.

TRAFFIC CONTROL SYSTEM  
 Controller Phasing

CH.	POWER SUPPLY	PHASE-LOOP		DIRECTION		CONTROLLER INPUT LOCATION		LOOP TYPE		WHITE BACKGROUND BLACK LEGEND & LINES							
		DT1	DT2	DT3	DT4	DT5	DT6	DT7	DT8	OD1	OD2						
CH.1	VD1	VD2	P	3-1A	SBLT	4-1	NB	5-1A	EBLT	7-1A	NBLT	8-1	SB	PE1	WB	PE3	SB
CH.2	SD1	SD2		3-1a	SBLT			5-1a	EBLT	7-1a	NBLT			PE2	EB	PE4	NB
REF	DT1	DT2	DT3	DT4	DT5	DT6	DT7	DT8	OD1	OD2							

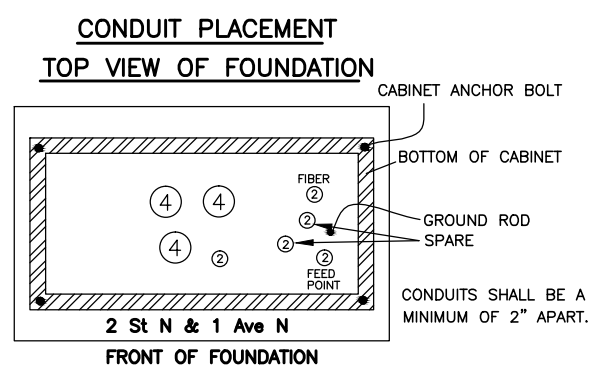
  

CH.	POWER SUPPLY	4CH VIDEOCARD		2CH VIDEOCARD		EdgeConnect							
		DT1	DT2	DT3	DT4	DT5	DT6	DT7	DT8				
CH.1	VD9	VD10	VD11	4-3A	NBRT	D1-1A	WBLT	D6-1A	WB	D6-3A	WB	X	X
CH.2	VD17	VD18	VD19	4-3a	NBRT	D1-1a	WBLT	D6-1E	WB	D6-3a	WB	X	X
REF	DT1	DT2	DT3	DT4	DT5	DT6	DT7	DT8					

TYPICAL 8 PHASE DETECTOR LABEL

<p><b>SAME PHASE MULTIPLE LEAD-INS</b>                  LETTERS A-D                  LANE LOCATION START                  "A" ON THE CENTER LINE                  TO CURB.</p>	<p>(N)-1 = (2,4,6,8)-PASSAGE                  (N)-1 = (2,4,6,8)-PRESENCE                  (N)-2 = (2,4,6,8)-CALLING                  (N)-1 = (1,3,5,7)-LEFT TURN                  (N)-3 = (2,4,6,8)-RIGHT TURN                  (N)-5 = (1,2,3,4,5,6,7,8)- COUNT LOOP</p>	<p><b>LOOP TYPE</b>                  P = PASSAGE                  PR = PRESENCE                  C = CALLING                  LT = LEFT TURN                  RT = RIGHT TURN                  T = COUNT LOOP</p>
		<p><b>CONTROLLER INPUT LOCATION</b>                  VD(#)= VEHICLE DETECTOR (1-8)                  SD(#)= SPECIAL DETECTOR (1-8)                  PD(#)= PEDESTRIAN DETECTOR (1-8)</p>



TRAFFIC SIGNAL PLANS  
 MISCELLANEOUS - SHEET 1  
 SYSTEM "A"  
 1 AVE N & 2 ST N

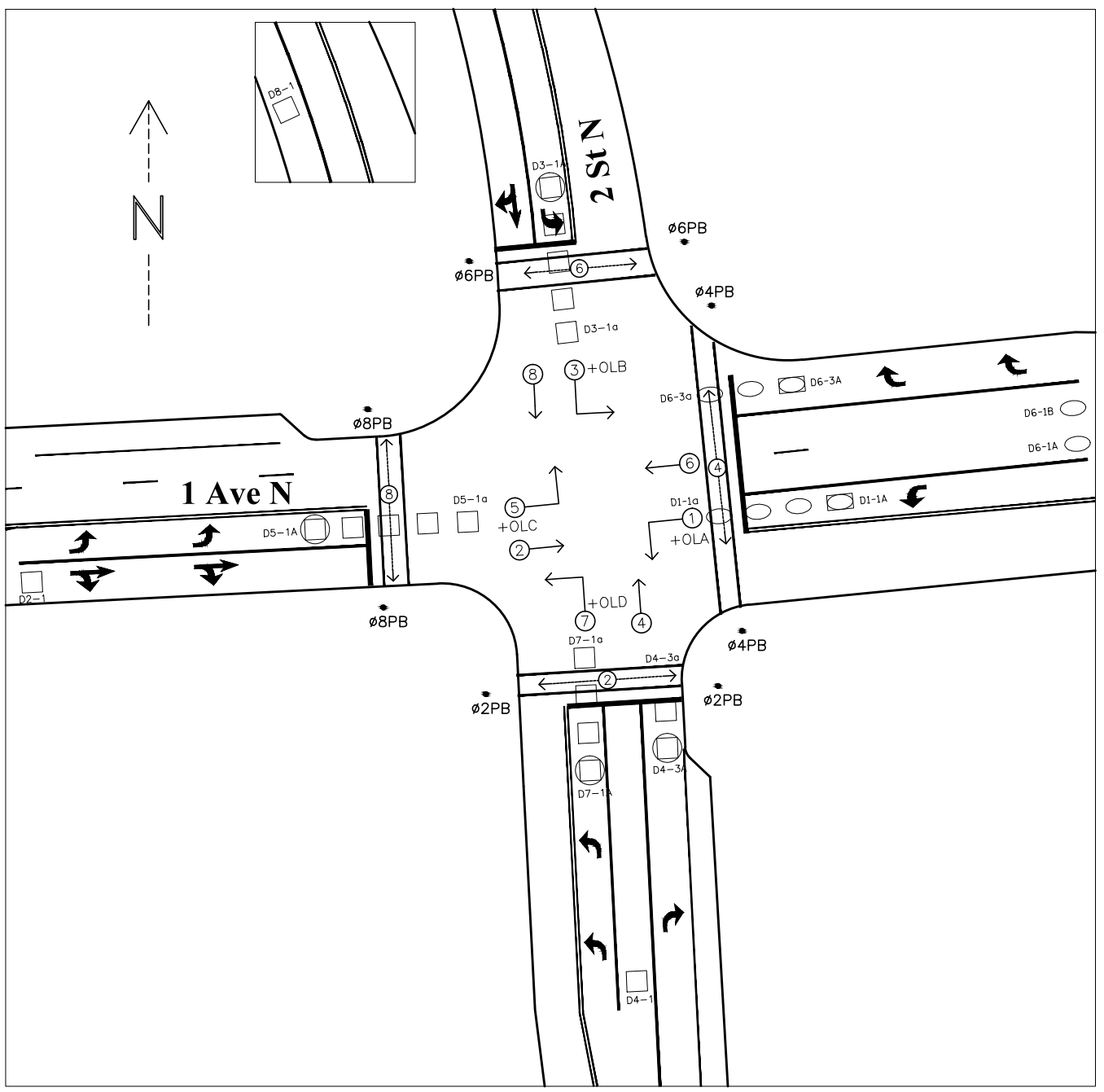
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### PHASE DESIGNATION DIAGRAM

#### DETECTOR LOOP SCHEDULE - 2 ST N @ 1 AVE N

DETECTION ZONE	DETECTION TYPE	NUMBER OF LOOPS	PHASE	SIZE (FEET)	TYPE OF LOOP	NUMBER OF TURNS	CONDUCTOR (L.F.)	SAW SLOT (L.F.)
D1-1A D1-1a	VIDEO	4 VIDEO	ø1	6 x 6	PRESENCE	-		-
D2-1	LOOP	1	ø2	6 x 6	PASSAGE	3		-
D3-1A D3-1a	LOOP	5	ø3	6 x 6	PRESENCE	3		-
D4-1	LOOP	1	ø4	6 x 6	PASSAGE	3		-
D4-3A D4-3a	LOOP	2	ø4	6 x 6	PRESENCE	3		-
D5-1A D5-1a	LOOP	5	ø5	6 x 6	PRESENCE	3		-
D6-1A D6-1B	VIDEO	2 VIDEO	ø6	6 x 6	PASSAGE	-		-
D6-3A D6-3a	VIDEO	3 VIDEO	ø6	6 x 6	PRESENCE	-		-
D7-1A D7-1a	LOOP	4	ø7	6 x 6	PRESENCE	3		-
D8-1	LOOP	1	ø8	6 x 6	PASSAGE	3		-
TOTAL		19 + 9 VIDEO						-



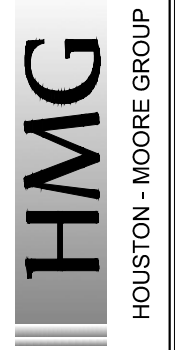
#### EMERGENCY VEHICLE PRE-EMPTION PHASING

Direction	WEST BOUND	EAST BOUND	SOUTH BOUND	NORTH BOUND
Dwell Phase(s)	Phase 1,6	Phase 2,5	Phase 3,8	Phases 4,7
Dwell Overlap(s)	OLA-Flashing Green	OLC-Flashing Green	OLB-Flashing Green	OLD-Flashing Green
Preempt Number	PREEMPT 1	PREEMPT 2	PREEMPT 3	PREEMPT 4
Preempt Wiring	TOP TUBE/BLUE WIRE	BOTTOM TUBE/YELLOW WIRE	TOP TUBE/BLUE WIRE	BOTTOM TUBE/YELLOW WIRE

NOTES:  
1) Flashing green overlap outputs needed for TS/1 cabinet compatibility

### 2 St N & 1 Ave N

TRAFFIC SIGNAL PLANS  
MISCELLANEOUS - SHEET 2  
SYSTEM "A"  
1 AVE N & 2 ST N



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

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

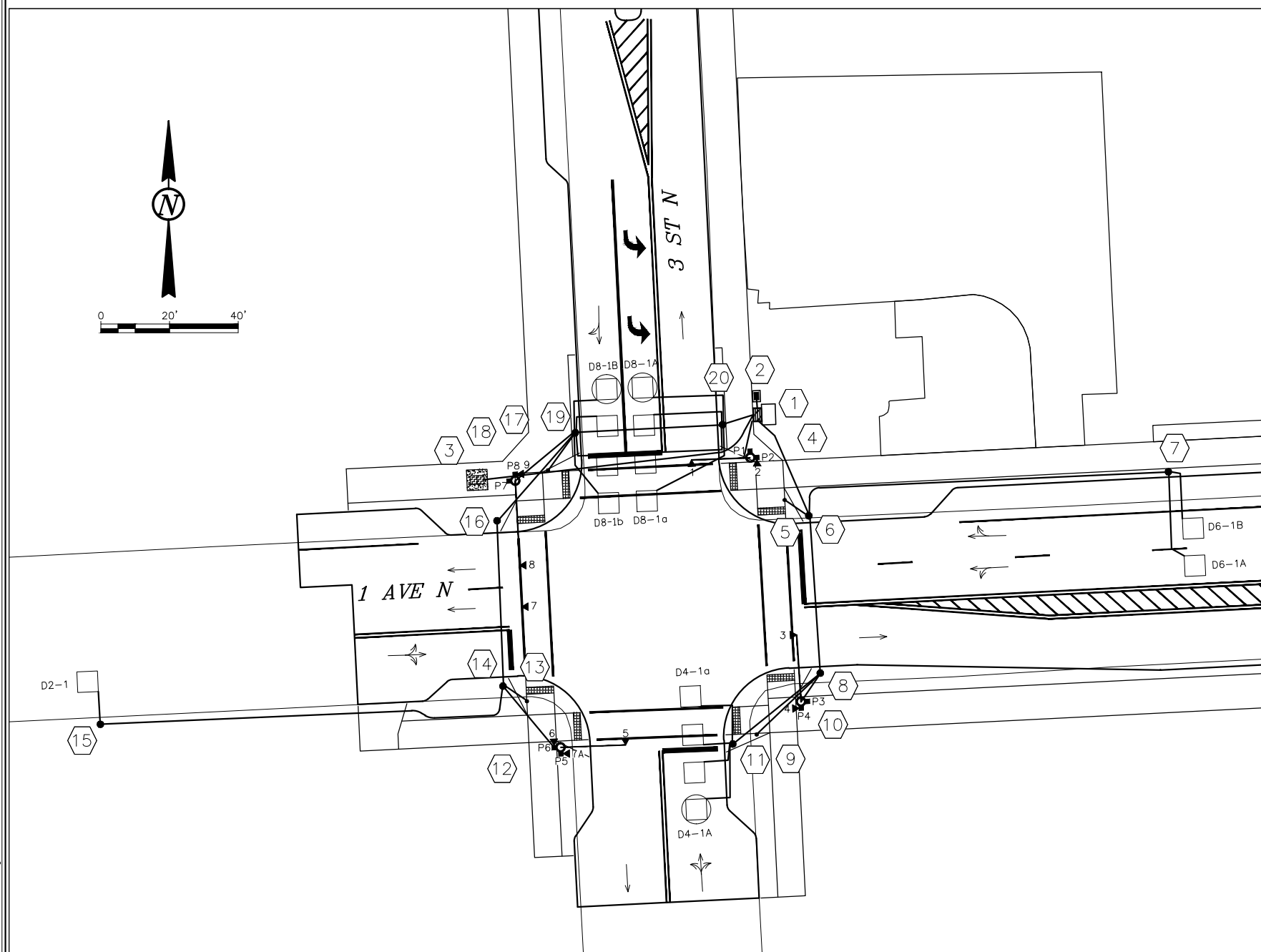
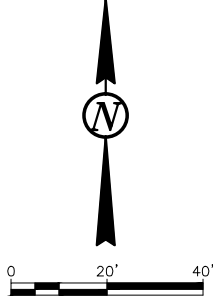
ELEVATION DATUM (VERTICAL CONTROL)  
NAVD 88  
GEOID03

DATE:	6-12-15
REVISED:	XXX
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PROJ. ENGINEER:	

**C-150-7**

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**LEGEND:**

- Quartzite Pull Box
- Detector Loops
- Feed Point
- Controller Cabinet
- Existing Signal Std.
- Existing Pull Box
- New Pull Box
- Ped. Post
- Utility Pole
- New Signal Std.
- Flasher
- EVP Detector
- Confirmation Light
- Ped. Head
- Vehicle Head
- Conduit
- Existing Conduit
- Signal Fiber Line

REVISED: XX-XX-XXXX

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- 1 FURNISH AND INSTALL TRAFFIC SIGNAL CABINET FOUNDATION AND WORKING SLAB. FURNISH AND INSTALL FARGO TYPE B CABINET. THE CABINET DOOR SHALL FACE EAST, AND BE RIGHT HINGED.
- 2 FURNISH AND INSTALL FEED POINT CABINET FOUNDATION. FURNISH AND INSTALL COMBO SIGNAL/STREET LIGHT FEED POINT CABINET. PROVIDE 2 SPARE 2" CONDUITS IN THE FOUNDATION WITH BOTH GOING OUT TO THE NORTH. THE CABINET DOOR SHALL FACE EAST.
- 3 FURNISH AND INSTALL 2" CONDUIT TO EXISTING POLYMER CONCRETE FIBER OPTIC PULL BOX. CONNECT TO EXISTING CONDUIT STUBOUT.
- 4 FURNISH AND INSTALL CONCRETE TRAFFIC SIGNAL FOUNDATION. FURNISH AND INSTALL TYPE IV/COMBO SIGNAL STANDARD WITH 30' MAST ARM. FURNISH AND INSTALL 2-CIRCUIT EVP DETECTOR AND CONFIRMATION LIGHT. FURNISH AND INSTALL APS PEDESTRIAN PUSH BUTTON FACING SOUTH WITH A LEFT ARROW.
- 5 FURNISH AND INSTALL PUSH BUTTON POST WITH APS PEDESTRIAN PUSH BUTTON FACING WEST WITH A RIGHT ARROW.
- 6 FURNISH AND INSTALL PVC PULL BOX.
- 7 FURNISH AND INSTALL PVC PULL BOX. FURNISH AND INSTALL 2-6' x 6' LOOPS(D6-1A/D6-1B).
- 8 FURNISH AND INSTALL PVC PULL BOX.
- 9 FURNISH AND INSTALL PUSH BUTTON POST WITH APS PEDESTRIAN PUSH BUTTON FACING NORTH WITH A RIGHT ARROW.
- 10 FURNISH AND INSTALL CONCRETE TRAFFIC SIGNAL FOUNDATION. FURNISH AND INSTALL TYPE IV/COMBO SIGNAL STANDARD WITH 26' MAST ARM. FURNISH AND INSTALL CONFIRMATION LIGHT. FURNISH AND INSTALL APS PEDESTRIAN PUSH BUTTON FACING WEST WITH A LEFT ARROW.
- 11 FURNISH AND INSTALL PVC PULL BOX. FURNISH AND INSTALL 4-6' x 6' LOOPS(D4-1A/D4-1a).
- 12 FURNISH AND INSTALL CONCRETE TRAFFIC SIGNAL FOUNDATION. FURNISH AND INSTALL TYPE IV/COMBO SIGNAL STANDARD WITH 30' MAST ARM. FURNISH AND INSTALL CONFIRMATION LIGHT. FURNISH AND INSTALL APS PEDESTRIAN PUSH BUTTON FACING NORTH WITH A LEFT ARROW.
- 13 FURNISH AND INSTALL PUSH BUTTON POST WITH APS PEDESTRIAN PUSH BUTTON FACING EAST WITH A RIGHT ARROW.
- 14 FURNISH AND INSTALL PVC PULL BOX.
- 15 FURNISH AND INSTALL PVC PULL BOX. FURNISH AND INSTALL 1-6' x 6' LOOP(D2-1).
- 16 FURNISH AND INSTALL PVC PULL BOX.
- 17 FURNISH AND INSTALL PUSH BUTTON POST WITH APS PEDESTRIAN PUSH BUTTON FACING SOUTH WITH A RIGHT ARROW.
- 18 FURNISH AND INSTALL CONCRETE TRAFFIC SIGNAL FOUNDATION. FURNISH AND INSTALL TYPE IV/COMBO SIGNAL STANDARD WITH 41' MAST ARM. FURNISH AND INSTALL 2-CIRCUIT EVP DETECTOR AND CONFIRMATION LIGHT. FURNISH AND INSTALL APS PEDESTRIAN PUSH BUTTON FACING EAST WITH A LEFT ARROW.
- 19 FURNISH AND INSTALL PVC PULL BOX. FURNISH AND INSTALL 4-6' x 6' LOOPS(D8-1B,D8-1b).
- 20 FURNISH AND INSTALL PVC PULL BOX. FURNISH AND INSTALL 4-6' x 6' LOOPS(D8-1A/D8-1a).

NOTE: CONTRACTOR SHALL ADJUST PULL BOXES TO ALIGN WITHIN CONTROL JOINT PATTERN IN SIDEWALK AND INTEGRAL COLORED CONCRETE AREA. CONTRACTOR SHALL AVOID PLACING PULL BOXES AT OR ON CONTROL JOINTS.

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HOUSTON - MOORE GROUP

2ND STREET/DOWNTOWN - IN-TOWN LEVES  
 2ND STREET N FLOODWALL  
 RED RIVER OF THE NORTH RIVER BASIN  
 FARGO-MOORHEAD FLOOD RISK MANAGEMENT  
 CASS COUNTY, NORTH DAKOTA  
 TRAFFIC SIGNALS

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

ELEVATION DATUM (VERTICAL CONTROL)  
 NAVD 88  
 GEOID03

DATE:	6-12-15
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PROJ. MANAGER:	CGT
PROJ. ENGINEER:	

**TRAFFIC SIGNAL PLANS**  
**NEW SIGNAL LAYOUT**  
**SYSTEM "B"**  
**1 AVE N & 3 ST N**

**C-150-8**

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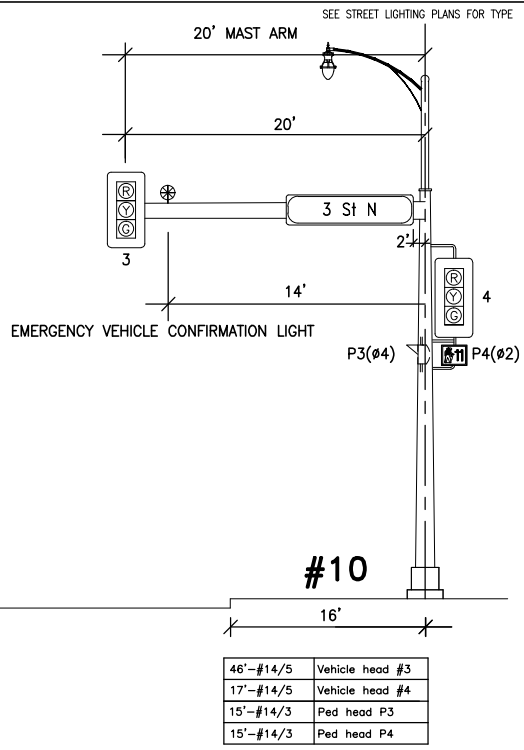
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HOUSTON - MOORE GROUP

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

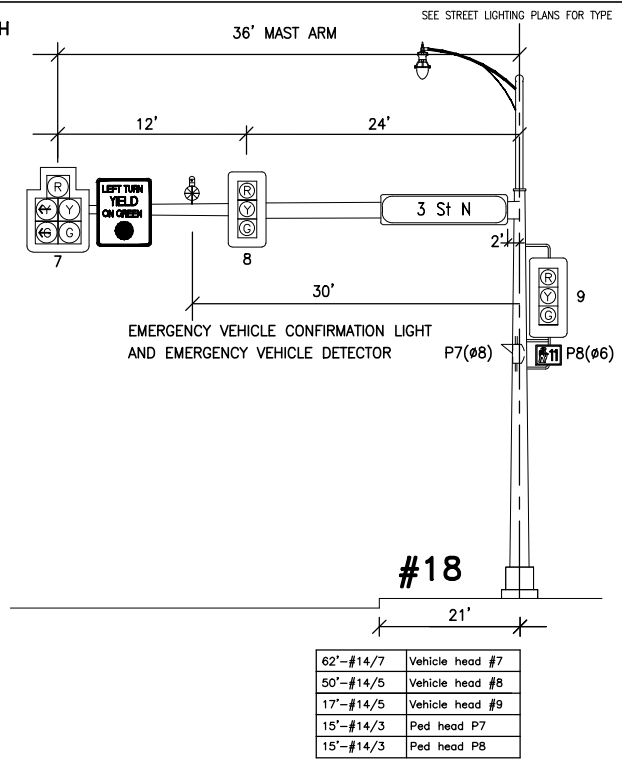
**Ø2 EAST-BOUND APPROACH**

CONDUCTORS		CABLE 2 (14-20)	#10 EB STD
BASE	TRACER	HEAD	INDICATION
1	BLACK		P3
2	WHITE		Ø4 WALK
3	RED		Ø2 RED
4	GREEN		Ø2 WALK
5	ORANGE		SPARE
6	BLUE		SPARE
7	WHITE	BLACK	P3
8	RED	BLACK	1-2
9	GREEN	BLACK	1-2
10	ORANGE	BLACK	1-2
11	BLUE	BLACK	1-2
12	BLACK	WHITE	P4
13	RED	WHITE	Ø2 DT. WALK
14	GREEN	WHITE	EVP
15	BLUE	WHITE	PE2 IND LIGHT
16	BLACK	RED	SPARE
17	WHITE	RED	SPARE
18	ORANGE	RED	SPARE
19	BLUE	RED	SPARE
20	RED	GREEN	SPARE



**Ø1 & Ø6 WEST-BOUND APPROACH**

CONDUCTORS		CABLE 4 (14-20)	#18 WB STD
BASE	TRACER	HEAD	INDICATION
1	BLACK		P7
2	WHITE		Ø8 WALK
3	RED		Ø8 NEUTRAL
4	GREEN		Ø8 SPARE
5	ORANGE		Ø8 GROUND
6	BLUE		Ø8 SPARE
7	WHITE	BLACK	P7
8	RED	BLACK	7-9
9	GREEN	BLACK	7-9
10	ORANGE	BLACK	7-9
11	BLUE	BLACK	7-9
12	BLACK	WHITE	P8
13	RED	WHITE	Ø6 DT. WALK
14	GREEN	WHITE	EVP
15	BLUE	WHITE	PE1 IND LIGHT
16	BLACK	RED	SPARE
17	WHITE	RED	SPARE
18	ORANGE	RED	SPARE
19	BLUE	RED	SPARE
20	RED	GREEN	SPARE



**MASTARMS AND STANDARDS:**  
All mastarms and standards shall be designed for a windload factor that accounts for the replacing of the end mastarm vehicle head with a 5-section cluster head and the addition of 10 square feet of sign area to the mastarm, with all other existing heads and signs shown on the 'Mastarm Detail Sheet'.

EACH VEHICLE/PEDESTRIAN HEAD CABLE SHALL BE LABELED WITH THE HEAD #.  
EACH CABLE SHALL HAVE A SEPERATE TERMINAL BLOCK INSIDE THE T-BASE FOR TERMINATIONS.

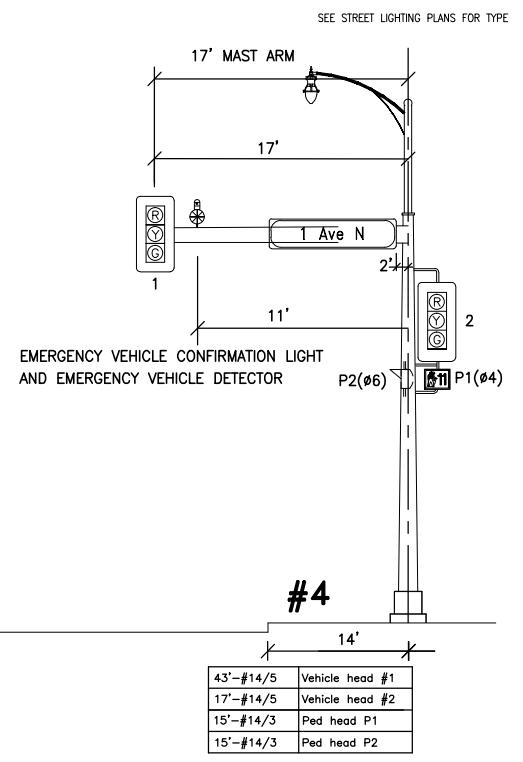
**HEAD CONDUCTOR ASSIGNMENT**

CONDUCTORS		No.14 Awg 3 Ped. Heads	No.14 Awg 5 Veh. Heads	No.14 Awg 7 5-Section Veh. Heads
BASE	TRACER	INDICATION	INDICATION	INDICATION
1	BLACK		WALK	GREEN
2	WHITE		NEUTRAL	NEUTRAL
3	RED		DT.WALK	RED
4	GREEN			GROUND
5	ORANGE			YELLOW
6	BLUE			GREEN
7	WHITE	BLACK		YELLOW

**NOTE:** All signal heads shall be SIG Polycarbonate. All back plates shall be louvered .063" thick aluminum.

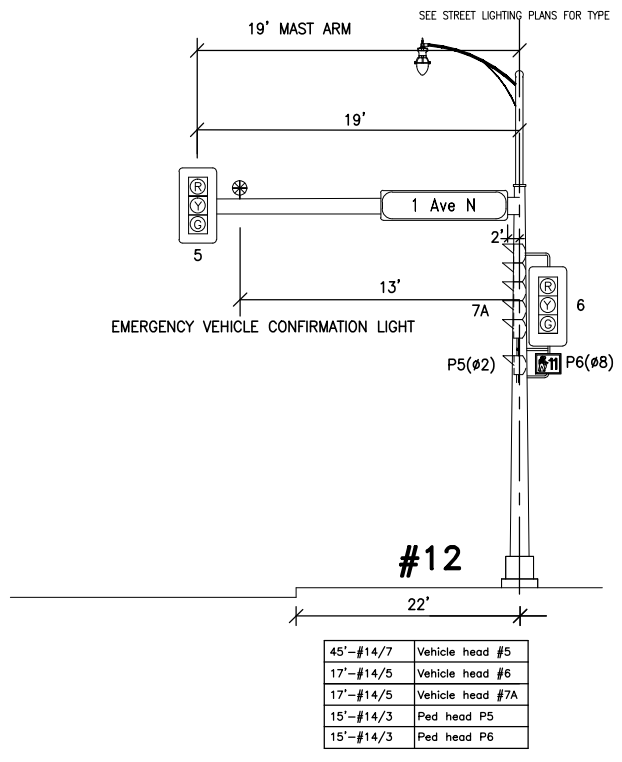
**Ø4 NORTH-BOUND APPROACH**

CONDUCTORS		CABLE 1 (14-20)	#4 NB STD
BASE	TRACER	HEAD	INDICATION
1	BLACK		P1
2	WHITE		Ø4 WALK
3	RED		1-2
4	GREEN		Ø4 RED
5	ORANGE		GROUND
6	BLUE		Ø4 YELLOW
7	WHITE	BLACK	P1
8	RED	BLACK	1-2
9	GREEN	BLACK	1-2
10	ORANGE	BLACK	1-2
11	BLUE	BLACK	1-2
12	BLACK	WHITE	P2
13	RED	WHITE	Ø6 DT. WALK
14	GREEN	WHITE	EVP
15	BLUE	WHITE	PE4 IND LIGHT
16	BLACK	RED	SPARE
17	WHITE	RED	SPARE
18	ORANGE	RED	SPARE
19	BLUE	RED	SPARE
20	RED	GREEN	SPARE



**Ø8 SOUTH-BOUND APPROACH**

CONDUCTORS		CABLE 3 (14-20)	#12 SB STD
BASE	TRACER	HEAD	INDICATION
1	BLACK		P6
2	WHITE		Ø8 WALK
3	RED		5-6
4	GREEN		Ø8 NEUTRAL
5	ORANGE		Ø8 SPARE
6	BLUE		Ø8 GROUND
7	WHITE	BLACK	P6
8	RED	BLACK	5-6
9	GREEN	BLACK	5-6
10	ORANGE	BLACK	5-6
11	BLUE	BLACK	5-6
12	BLACK	WHITE	P5
13	RED	WHITE	Ø2 WALK
14	GREEN	WHITE	EVP
15	BLUE	WHITE	PE3 IND LIGHT
16	BLACK	RED	SPARE
17	WHITE	RED	SPARE
18	ORANGE	RED	SPARE
19	BLUE	RED	SPARE
20	RED	GREEN	SPARE



ALL PEDESTRIAN HEADS  
16" x 18" Filled Overlay  
L.E.D. PEDESTRIAN HEAD  
WITH PEDESTRIAN COUNT  
DOWN TIMER

ALL L.E.D. SIGNAL HEADS  
12" Lenses  
VEHICLE HEADS  
1-6,8-9

ALL L.E.D. SIGNAL HEADS  
12" Lenses  
VEHICLE HEADS  
7

ALL NEW L.E.D. SIGNAL HEADS  
12" Lenses  
VEHICLE HEADS  
7A

TRAFFIC SIGNAL PLANS  
TS STANDARDS  
SYSTEM "B"  
1 AVE N & 3 ST N

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

ELEVATION DATUM (VERTICAL CONTROL)  
NAVD 88  
GEOID03

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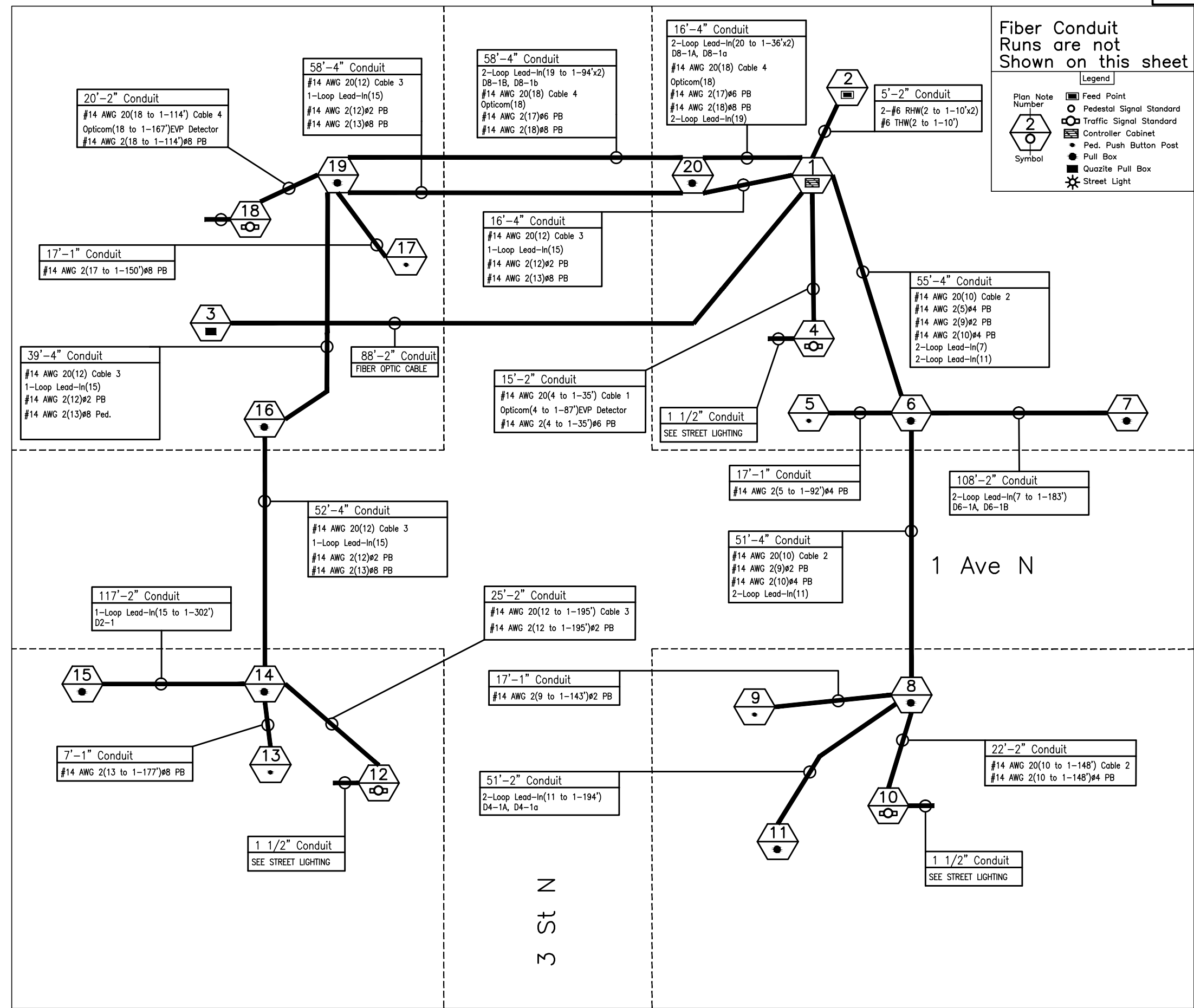
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HMG HOUSTON - MOORE GROUP

2ND STREET/DOWNTOWN - IN-TOWN LEVEES  
2ND STREET N FLOODWALL  
RED RIVER OF THE NORTH RIVER BASIN  
FARGO-MOORHEAD FLOOD RISK MANAGEMENT  
CASS COUNTY, NORTH DAKOTA  
TRAFFIC SIGNALS

COORDINATE SYSTEM (HORIZONTAL CONTROL)  
NAD 83 (1986)  
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PROJ. ENGINEER:	

TRAFFIC SIGNAL PLANS  
WIRING DIAGRAM  
SYSTEM "B"  
1 AVE N & 3 ST N

C-150-10

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↑ N ↓	↙		→ PEDS (A) ←		NOT USED		↑ PEDS(A) ↓		NOT USED		← PEDS (A) →		NOT USED		↑ PEDS(A) ↓				
	Phase 1		Phase 2		Phase 3		Phase 4		Phase 5		Phase 6		Phase 7		Phase 8				
HEAD NUMBER	Clear to #		Clear to #		Clear to #		Clear to #		Clear to #		Clear to #		Clear to #		Clear to #				
	R	W	R	W	R	W	R	W	R	W	R	W	R	W	R	W			
1,2																			
3,4			G	Y	(B)	Y	(C)												
5,6															G	Y	Y	(B)	Y
7,7A	G	Y	(B)	Y	(C)														
8,9															G	Y	(B)	(B)	Y

CHART "A"	
Phase	Non-Conflicting Phase Allowed to Time Concurrently
1	6
2	6
3	
4	8
5	
6	1,2
7	
8	4

Blank Squares Denote a Red Indication.  
 (A) Only upon pedestrian actuation.  
 (B) When one phase is on alone, any nonconflicting phase may start timing concurrently without a clearance interval. (See Chart "A")  
 (C) Phase 2 shall not clear to Phase 1. Controller shall be programmed with "Backup Prevent" for these phases to prevent yellow ball trap.

TRAFFIC CONTROL SYSTEM  
Controller Phasing

THE CITY WILL PROGRAM THE SIGNAL TIMING INTO THE CONTROLLER PRIOR TO START UP.

CH.1	VD1	VD2	P	VD3	PR	VD4	PR	VD5	VD6	P	VD7	PR	VD8	PR	PE1	WB	PE3	SB

CH.1	VD9	VD10	VD11	VD12	VD13	VD14	VD15	VD16	
CH.2	VD17	VD18	VD19	VD20	VD21	VD22	VD23	VD24	
REF	POWER SUPPLY	DT1	DT2	DT3	DT4	DT5	DT6	DT7	DT8

1 1/8" MIN

**TYPICAL 8 PHASE DETECTOR LABEL**

**PHASE-LOOP**

(N)-1 = (2,4,6,8)-PASSAGE  
 (N)-1 = (2,4,6,8)-PRESENCE  
 (N)-2 = (2,4,6,8)-CALLING  
 (N)-1 = (1,3,5,7)-LEFT TURN  
 (N)-3 = (2,4,6,8)-RIGHT TURN  
 (N)-5 = (1,2,3,4,5,6,7,8)- COUNT LOOP

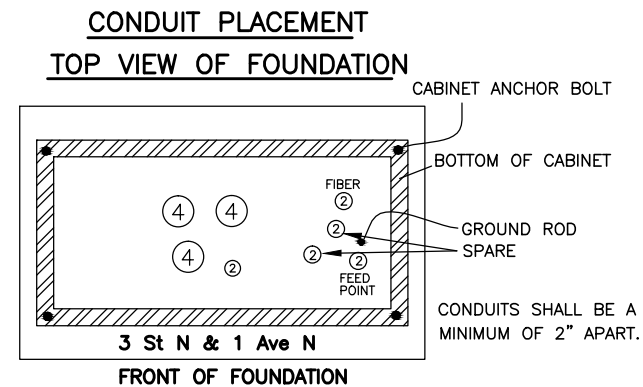
**LOOP TYPE**

P = PASSAGE  
 PR = PRESENCE  
 C = CALLING  
 LT = LEFT TURN  
 RT = RIGHT TURN  
 T = COUNT LOOP

**CONTROLLER INPUT LOCATION**

VD(#) = VEHICLE DETECTOR (1-8)  
 SD(#) = SPECIAL DETECTOR (1-8)  
 PD(#) = PEDESTRIAN DETECTOR (1-8)

SAME PHASE MULTIPLE LEAD-INS LETTERS A-D LANE LOCATION START "A" ON THE CENTER LINE TO CURB.



NOTE:  
CONTROLLER SHALL BE PROGRAMMED WITH "BACKUP PREVENT" ON FOR PHASE 2 TO PHASE 1 TO PREVENT YELLOW BALL TRAP.



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

COORDINATE SYSTEM (HORIZONTAL CONTROL)  
 NAD 83 (1986)  
 FARGO GROUND - US SURVEY FEET  
 ELEVATION DATUM (VERTICAL CONTROL)  
 NAVD 88  
 GEOID03

DATE:	6-12-15
REVISED:	XXX
REVISED:	
REVISED:	
RECORD:	
FILE NAME:	
PROJECT No.	---
DRAWN BY:	MAB,CWB
CHECKED BY:	NJE
PROJ. MANAGER:	CGT
PROJ. ENGINEER:	

**TRAFFIC SIGNAL PLANS  
 MISCELLANEOUS - SHEET 1  
 SYSTEM "B"  
 1 AVE N & 3 ST N**

C-150-11

10/09/15 02:46:05PM H:\Proj\FRG00\7715.11\SD\Design\Plan\South\7715\_Sys\_B\_South.dwg

**DRAFT**

## PHASE DESIGNATION DIAGRAM

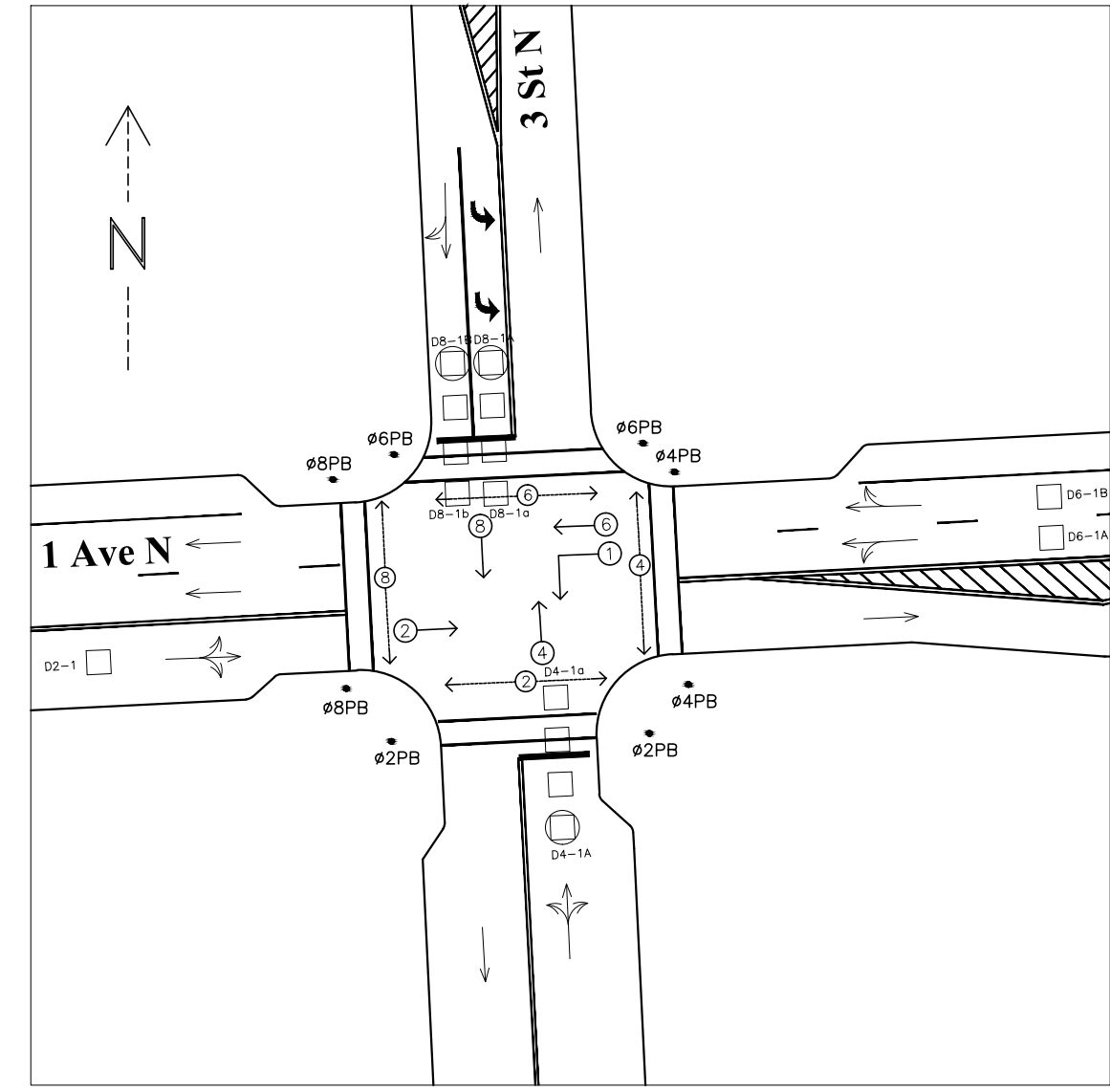
**DETECTOR LOOP SCHEDULE - 3 ST N & 1 AVE N**

DETECTION ZONE	DETECTION TYPE	NUMBER OF LOOPS	PHASE	SIZE (FEET)	TYPE OF LOOP	NUMBER OF TURNS	CONDUCTOR (L.F.)	SAW SLOT (L.F.)
D2-1	LOOP	1	ø2	6 x 6	PASSAGE	3		-
D4-1A D4-1a	LOOP	4	ø4	6 x 6	PRESENCE	3		-
D6-1A D6-1B	LOOP	2	ø6	6 x 6	PASSAGE	3		-
D8-1A D8-1a	LOOP	4	ø8	6 x 6	PRESENCE	3		-
D8-1B D8-1b	LOOP	4	ø8	6 x 6	PRESENCE	3		-
TOTAL		15						-

**EMERGENCY VEHICLE PRE-EMPTION PHASING**

Direction	WEST BOUND	EAST BOUND	SOUTH BOUND	NORTH BOUND
Dwell Phase(s)	Phase 1,6	Phase 2	Phase 8	Phases 4
Dwell Overlap(s)	-	-	-	-
Preempt Number	PREEMPT 1	PREEMPT 2	PREEMPT 3	PREEMPT 4
Preempt Wiring	TOP TUBE/BLUE WIRE	BOTTOM TUBE/YELLOW WIRE	TOP TUBE/BLUE WIRE	BOTTOM TUBE/YELLOW WIRE

NOTES:  
 1) Controller shall be programmed with "Backup Prevent" on for Phase 2 to Phase 1 to prevent yellow ball trap.



**3 St N & 1 Ave N**

**HMG**  
HOUSTON - MOORE GROUP

2ND STREET/DOWNTOWN - IN-TOWN LEVEES  
 2ND STREET N FLOODWALL  
 RED RIVER OF THE NORTH RIVER BASIN  
 FARGO-MOORHEAD FLOOD RISK MANAGEMENT  
 CASS COUNTY, NORTH DAKOTA  
 TRAFFIC SIGNALS

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

ELEVATION DATUM (VERTICAL CONTROL)  
 NAVD 88  
 GEOID03

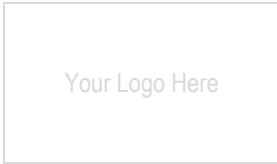
DATE:	6-12-15
REVISED:	XXX
REVISED:	
REVISED:	
RECORD:	
FILE NAME:	
PROJECT No.	---
DRAWN BY:	MAB,CWB
CHECKED BY:	NJE
PROJ. MANAGER:	CGT
PROJ. ENGINEER:	

TRAFFIC SIGNAL PLANS  
 MISCELLANEOUS - SHEET 2  
 SYSTEM "B"  
 1 AVE N & 3 ST N

**C-150-12**

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# CHANGE ORDER REQUEST

Industrial Builders, Inc.  
15274- - 2nd Street Floodwall and Road Relocation

DATE: 3/16/2016

PCO#: 5

**To:** Tyler Smith  
CH2M Hill Engineer's Inc  
657 2nd Ave N  
Fargo, ND 58105-5405  
**Phone:** 701-566-5470  
**Fax:**  
**Email:** tyler.smith@ch2m.com  
**CC:**

**From:** David Goulet  
Industrial Builders, Inc.  
PO Box 406  
Fargo, ND 58107-0406  
**Phone:** 701-356-9827  
**Fax:**  
**Email:** dgoulet@industrialbuilders.com

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

- **Pump Station Concrete / Extra Piling / Bridge Seal**
  - Proposed Scope of Work: This request for change order includes concrete and fill inside of the pump station, the piling overrun for the bridge abutment, and the additional work for the bridge seal. Concrete includes the backfill with aggregate material and using item 121 for the concrete.

PCO Item	Status	Change (in Days)	Quantity	UM	Unit Price	Amount
1 : Pump Station Concrete	Initiated		1.00	L S	20,068.90	20,068.90
This price does not include any dowels into the screen wall or pump station.						
2 : Extra Piling	Initiated		106.25	LF	62.00	6,587.50
See attached documents						
3 : Bridge Seal	Initiated		1	L S	8,108.33	8,108.33
See attached documents						

Submitted By:

Approved By:

3/16/2016

David Goulet

Date

Tyler Smith  
CH2M Hill Engineer's Inc

Date

## Interior Pump Station Concrete Change Order Detail

### Additional Labor during Backfilling

	50hr/Rate	Hrs			Total
2 Operators	85.22	8		\$	1,363.52
2 Labors	58.87	8		\$	941.92
<b>Total Labor:</b>				<b>\$</b>	<b>2,305.44</b>

### IBI Equipment Rates

	Qty	Weekly Rate				Total
1 Excavator		\$ 4,092.00	0.2		\$	818.40
1 Loader		\$ 2,376.00	0.2		\$	475.20
2 Plate/Wacker Packer		\$ 440.00	0.2		\$	176.00
<b>Total Equipment:</b>				<b>\$</b>	<b>1,469.60</b>	

### Material

	Qty	Units	Price			Total
Aggregate Backfill		370 TON	\$ 11.65		\$	4,310.50
						<u>4,310.50</u>
Plus Sales Tax					\$	4,633.79
Plus 15% Mark Up					<b>\$</b>	<b>5,328.86</b>

### BID ITEMS

	Qty	Units	Price			Total
121) F&I 6" Sidewalk		129 SY	\$ 85.00		<b>\$</b>	<b>10,965.00</b>

**Grand Total: \$ 20,068.90**

### NOTES:

Previously bid concrete was based on performing the work in the winter and prior to the start of 42F1S project.

The subcontractor agreed to pay for the concrete under bid item 121, increasing the qty by 129 SY.

The current backfill price does not include paying for materials, and dozers would be used with large open areas. Backfilling will need to be completed mostly by hand with the area being between the pump station and the screen walls.



# LETTER OF TRANSMITTAL

Industrial Builders Inc.  
15274- -  
2nd Street Floodwall and Road Relocation

Date: 1/5/2016  
Transmittal #: 004

**To:** Tyler Smith  
CH2M Hill Engineer's Inc  
657 2nd Ave N  
Fargo, ND 58105-5405  
**Phone:** 701-566-5470  
**Fax:**  
**Email:** tyler.smith@ch2m.com

**From:** David Goulet  
Industrial Builders Inc.  
PO Box 406  
Fargo, ND 58107-0406  
**Phone:** 701-356-9827  
**Fax:** 701-281-1409  
**Email:** dgoulet@industrialbuilders.com

**CC:**

**SUBJECT:** *H-Pile – Over Plan Quantity*

DOC TYPE	DOCUMENT #	COPIES	STATUS	REMARKS
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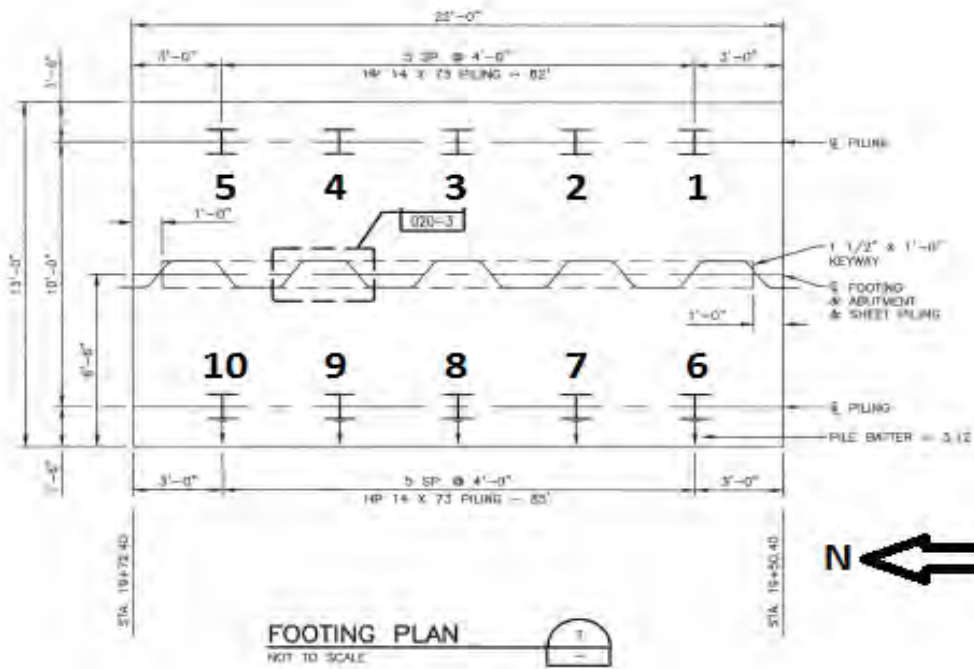
Additional Notes:

Without a separate bid item for HP 14X73 the planned quantity calls for 82' on the East side and 85' on the battered West side piling. To reach a bearing of 180 tons this quantity may overrun. If each piling does not go over 100 LF IBI is willing to charge the NDDOT average unit price of \$62.00 / LF. If the piling goes over 100 LF a separate price will need to be negotiated due to shipment.

---

David Goulet

HP Pile for Pedestrian Bridge Abutment			
Pile No.	Plan Length	Actual Length	Overrun
1	82' - 0"	94' - 8"	12' - 8"
2	82' - 0"	94' - 1 1/2"	12' - 1 1/2"
3	82' - 0"	96' - 1 1/2"	14' - 1 1/2"
4	82' - 0"	83' - 3"	1' - 3"
5	82' - 0"	94' - 8"	12' - 8"
6	85' - 0"	95' - 5"	10' - 5"
7	85' - 0"	95' - 11"	10' - 11"
8	85' - 0"	92' - 8"	7' - 8"
9	85' - 0"	93' - 6"	8' - 6"
10	85' - 0"	100' - 11"	15' - 11"
<b>Total</b>	<b>835' - 0"</b>	<b>941' - 3"</b>	<b>106' - 3"</b>



## David Goulet

---

**Subject:** FW: 42F1S - Piling  
**Attachments:** 42F1S - Transmittal 004 -H Piling Potential Overrun-2016-1-5.pdf

---

**From:** Randy Engelstad [<mailto:rengelstad@houstoneng.com>]  
**Sent:** Tuesday, January 05, 2016 10:49 AM  
**To:** David Goulet; David Buck ([David.Buck@ch2m.com](mailto:David.Buck@ch2m.com))  
**Cc:** Jeremy McLaughlin; Gary Doroff; Luke Beckermann; Neal Isaak  
**Subject:** RE: 42F1S - Piling

Thanks David

David Buck, this is in case the H piling is driven further than estimated on the plans so we have a cost ready to go that would be added to the contract should the need arise. Let me know if you have any questions.

Thanks,

**Randy Engelstad**  
Civil Engineer  
Houston Engineering, Inc.  
O 701.237.5065 | D 701.499.2087 | F 701.237.5101

---

**From:** David Goulet [<mailto:david@industrialbuilders.com>]  
**Sent:** Tuesday, January 05, 2016 10:31 AM  
**To:** Randy Engelstad <[rengelstad@houstoneng.com](mailto:rengelstad@houstoneng.com)>; David Buck ([David.Buck@ch2m.com](mailto:David.Buck@ch2m.com)) <[David.Buck@ch2m.com](mailto:David.Buck@ch2m.com)>  
**Cc:** Gary Doroff <[gary@industrialbuilders.com](mailto:gary@industrialbuilders.com)>  
**Subject:** 42F1S - Piling

Per our conversation with HMG, attached is a transmittal showing the cost if we run over the planned quantity of HP on the abutment.

Thank you,

**David Goulet**  
**Project Manager**  
Industrial Builders, Inc.  
Office: 701-282-4977  
Direct: 701-356-9827  
Fax: 701-281-1409

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## Bridge Seal Change Order Detail

### Additional Labor during Backfilling

	50hr/Rate	Hrs		Total
1 Operators	85.22	7.75	\$	660.46
2 Carpenters	73.02	7.75	\$	1,131.81
1 Labors	58.87	7.75	\$	456.24
<b>Total Labor:</b>			<b>\$</b>	<b>2,248.51</b>

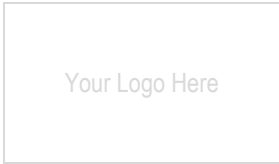
### Material

	Qty	Units	Price	Total
DS Brown Material		1 LS	\$ 4,740.00	\$ 4,740.00
				<b>Sub total</b>
				<b>\$ 4,740.00</b>
				<b>Plus Sales Tax</b>
				<b>\$ 5,095.50</b>
Plus 15% Mark Up				<b>\$ 5,859.83</b>

**Grand Total: \$ 8,108.33**

### NOTES:

Change order is based on adding the joints associated with "Brg. Abut. 1" on sheet C-020-28. This joint along with the modifications at the new barrier have been added with RFI 023A. The labor cost is based on the original bid labor productions to remove, replace and weld SSA2 sections, set new top plates, place new seal, and chip out additional concrete.



# CHANGE ORDER REQUEST

Industrial Builders Inc.  
15274- - 2nd Street Floodwall and Road Relocation

DATE: 1/13/2016

PCO#: 7

**To:** Tyler Smith  
CH2M Hill Engineer's Inc  
657 2nd Ave N  
Fargo, ND 58105-5405  
**Phone:** 701-566-5470  
**Fax:**  
**Email:** tyler.smith@ch2m.com  
**CC:**

**From:** David Goulet  
Industrial Builders Inc.  
PO Box 406  
Fargo, ND 58107-0406  
**Phone:** 701-356-9827  
**Fax:**  
**Email:** dgoulet@industrialbuilders.com

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

- Traffic Signal
  - Proposed Scope of Work: Attached is the change order for the changes to street signals and lighting during the submittal process.

PCO Item	Status	Change (in Days)	Quantity	UM	Unit Price	Amount
1 : Traffic Signal	Initiated		1.000	L S	29,722.00	\$29,722.00

Submitted By:

Approved By:

1/13/2016

David Goulet

Date

Tyler Smith  
CH2M Hill Engineer's Inc

Date



PO Box 13500  
 Grand Forks, ND 58208-3500  
 701.746.7491

## Proposal

Proposal Submitted to Address:	Phone:	Date:
<b>David Goulet</b>		1/7/2016
Industrial Builders		Addendum

Strata Corporation is pleased to submit the following proposal based upon the info. we've received.

**2nd street Fargo flood job**

Change Order 2					
Item	Description	Qty	Unit	Price	Total
1	Install Type V pole on NP & 2nd as per email 12/11	1	LS	\$ 765.00	\$ 765.00
2	Furnish and install lighting extensions	7	EA	\$ 1,400.00	\$ 9,800.00
3	Furnish and install 8 push button at 1 & 2 & 4 at 1 & 3	1	LS	\$ 16,455.00	\$ 16,455.00
					\$ -
<b>Sum</b>					<b>\$ 27,020.00</b>

Notes: item 3 is to add 4 push buttons at 1st ave and 3rd st(project had 4 original) and install push buttons at 1st ave and 2nd street.

General Notes:

Testing, Erosion Control, Permits and traffic control are not included in items. All Items Tied.  
 Surveying for the project is not included. Bond not included.  
 No power company fees  
 No: Cost Sharing, TERO fees or Tribal Training Fees.  
 This Proposal shall be included in our contract or agreement.  
 Proposal valid for 30 days and on approved credit. All permits are by others. Work associated with pavement marking is by others.  
 Final payment due upon completion of project. All past due accounts assessed a service fee of 18% annually, or 1.5% monthly.

All material is guaranteed to be specified. All work to be completed in workmanlike manner according to standard practices. All agreements contingent upon strikes, accidents or delays beyond our control. Owner to carry fire, tornado, and other necessary insurance. Our workers are fully covered by Workers Compensation Insurance.

Proposal By: **Keith Wolter**  
 Cell No. 701-741-0901  
 Office No. 701-775-4205  
 \_\_\_\_\_  
 Authorized Signature

**Acceptance of Proposal-**

The above prices, specifications, and conditions are satisfactory and are hereby accepted. you are authorized to do the work as specified. Payment will be made as outlined above.

Date of Acceptance:

X

Signature

X



Your Logo Here

# CHANGE ORDER REQUEST

Page 1

Industrial Builders Inc.  
15274- - 2nd Street Floodwall and Road Relocation

DATE: 1/22/2016

PCO#: 8

**To:** Tyler Smith  
CH2M Hill Engineer's Inc  
657 2nd Ave N  
Fargo, ND 58105-5405  
**Phone:** 701-566-5470  
**Fax:**  
**Email:** tyler.smith@ch2m.com  
**CC:**

**From:** David Goulet  
Industrial Builders Inc.  
PO Box 406  
Fargo, ND 58107-0406  
**Phone:** 701-356-9827  
**Fax:**  
**Email:** dgoulet@industrialbuilders.com

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

- **IBI Abutment Disposal**
  - Proposed Scope of Work: This change order was to remove unsuitable backfill material from the bridge abutment excavation. This material was full of debris and could not be reused as backfill and hauled away per owners request.

PCO Item	Status	Change (in Days)	Quantity	UM	Unit Price	Amount
1 : IBI Abutment Disposal	Initiated		1.000	L S	4256.28	\$4,256.28

Submitted By:

Approved By:

David Goulet  
1/22/2016  
Date

Tyler Smith  
CH2M Hill Engineer's Inc  
Date

## Disposal Change Order Detail

<b><u>Remove unsuitable soil from bridge abutment excavation</u></b>					
	50hr/Rate	Hrs.		Total	
1 Superintendent / Operator	123.4	6		\$	740.40
				Total:	<b>\$ 1,631.28</b>
<b><u>IBI Equipment Rates</u></b>					
<i>Qty</i>		<i>Hourly Rate</i>			<i>Total</i>
1 Semi and Operator		\$ 115.00	15	\$	1,725.00
				<b>Total IBI Equipment:</b>	<b>\$ 1,725.00</b>
<b><u>Material Disposal</u></b>					
	<i>Qty</i>	<i>Units</i>	<i>Price</i>		<i>Total</i>
Disposal- Open lot offsite		9 EA	\$ 100.00	\$	<b>900.00</b>

<b>Total Change Order: \$</b>	<b>4,256.28</b>
-------------------------------	-----------------

CONSTRUCTION WORK ORDER

# Industrial Builders, Inc.

JOB NO. 15274 CONTRACT NO. \_\_\_\_\_ DATE 1/6-7

DESCRIPTION OF WORK Haul out debris / concrete

LABOR	CLASSIFICATION	HOURS WORKED		BILLING HOURS	RATE	AMOUNT
		S.T.	1½ OT			
<i>Glenn Nelson</i>	<i>Truck</i>	<i>15</i>				
<i>Sud Nelson</i>	<i>Exp</i>	<i>6</i>				
MATERIAL CHARGES		TOTAL INV COST		15% MARKUP		AMOUNT
EQUIPMENT, RENTAL & MISCELLANEOUS		HOURS WORKED		RATE		AMOUNT
		REG.	STD BY	REG	STD BY	
<i>Truck</i>		<i>15</i>				
<i>L-70 loader</i>		<i>6</i>				
APPROVED					TOTAL	

Authorized Representative \_\_\_\_\_ Superintendent *GD*

# Industrial Builders, Inc.

PAUL W. DIEDERICH, PRESIDENT  
 DONN O. DIEDERICH, EXECUTIVE VICE PRESIDENT  
 Visit us at <http://www.industrialbuilders.com>



General Contractors



Phone 701-282-4977

FAX 701-281-1409

PO Box 406 - Fargo, ND 58107

1307 County Rd 17 North - West Fargo, ND 58078

IBI Job # 15214 Date: 1-6-16

Truck # 2-116

Customer 2<sup>ND</sup> St - Fargo

Trailer # \_\_\_\_\_

#	Clay	Sand	Rock	Muck	Concrete	Debris	Pit Site	Time Loaded	Delivered To Site	Time Unloaded
1	X						2 <sup>ND</sup> St.	7:55	N. YARD	8:20
2	X							8:35		9:00
3	X							9:20		9:40
4	X							10:40		11:00
5	X							11:25		11:45
6	X							12:05		12:30
7	X							1:05		1:25
8	X							1:45		2:05
9	X							2:50	↓	3:10
10					X			3:35	YARD	3:55
11					X			4:25	↓	4:45
12										
13										
14										
15										
16										
17										
18										
19										
20										
21										
22										
23										
24										
25										

Glen Clemenson  
 Driver Signature

Billable Hrs 

From	To	Total

Worked Hrs 

6:45AM	5:00PM	10 1/4
--------	--------	--------

Customer Signature \_\_\_\_\_

Total Loads 

11
----

# Industrial Builders, Inc.

PAUL W. DIEDERICH, PRESIDENT  
 DONN O. DIEDERICH, EXECUTIVE VICE PRESIDENT  
 Visit us at <http://www.industrialbuilders.com>



General Contractors



Phone 701-282-4977  
 FAX 701-281-1409  
 PO Box 406 - Fargo, ND 58107  
 1307 County Rd 17 North - West Fargo, ND 58078

IBI Job # 15274 Date: 1-7-16  
 Truck # 2-116  
 Trailer # \_\_\_\_\_

Customer ZND Co.

#	Clay	Sand	Rock	Muck	Concrete	Debris	Pit Site	Time Loaded	Delivered To Site	Time Unloaded
1					X		ZND Co.	7:55	YARD	8:20
2					X		↓	8:55	↓	9:20
3					X		↓	9:50	↓	10:15
4					X		↓	10:40	↓	11:15
5										
6										
7										
8										
9										
10										
11										
12										
13										
14										
15										
16										
17										
18										
19										
20										
21										
22										
23										
24										
25										

Driver Signature [Signature]

Billable Hrs 

From	To	Total

Worked Hrs 

6:45 AM	11:30 AM	4 3/4
---------	----------	-------

Customer Signature \_\_\_\_\_

Total Loads 

4
---

## Finance Committee Bills for April 2016

Vendor	Description	Amount
Cass County Joint Water Resource District	Reimburse Diversion bills	\$ 9,538,720.87
Fredrickson & Byron, P.A.	Government relations flat fee - March	\$ 3,500.00
Fredrickson & Byron, P.A.	Government relations flat fee - April	\$ 3,500.00
Erik R. Johnson & Associates, Ltd.	LEERDS Matters through February 29, 2016	\$ 430.10
Erik R. Johnson & Associates, Ltd.	General Legal Matters through February 29, 2016	\$ 8,486.39
BNSF	Roadway Resurfacing Permit processing fee	\$ 775.00
Dorsey & Whitney LLP	Legal Services Rendered through February 29, 2016	\$ 54,505.25
Erik R. Johnson & Associates, Ltd.	LEERDS Matters through March 25, 2016	\$ 1,158.00
Erik R. Johnson & Associates, Ltd.	General Legal Matters through March 25, 2016	\$ 4,395.80
Springsted	Professional Services through March 31, 2016	\$ 16,184.00
Ohnstad Twichell, P.C.	Professional Services rendered	\$ 50,732.04
Clay County	Property Taxes	\$ 12.00
Clay County	Property Taxes	\$ 42.00
Clay County	Property Taxes	\$ 272.00
Clay County	Property Taxes	\$ 58.00
Total Bills Received in March		<u>\$ 9,682,771.45</u>



Cass County  
Joint Water  
Resource  
District

March 28, 2016

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

Mark Brodshaug  
Chairman  
Fargo, North Dakota

Greetings:

Rodger Olson  
Manager  
Leonard, North Dakota

RE: Metro Flood Diversion Project  
In-Town Levees Project  
Diversion Project Assessment Committee (DPAC)  
Oxbow-Hickson-Bakke Ring Levee Project

Dan Jacobson  
Manager  
West Fargo, North Dakota

Enclosed please find copies of bills totaling \$9,538,720.87 regarding the above referenced projects. The breakdown is as follows:

Ken Lougheed  
Manager  
Gardner, North Dakota

Metro Flood Diversion	\$ 35,460.24
In-Town Levees	9,476,822.99
DPAC	954.00
Oxbow-Hickson-Bakke Ring Levee	25,483.64

Jacob Gust  
Manager  
Fargo, North Dakota

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.

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

Carol Harbeke Lewis  
Secretary-Treasurer  
1201 Main Avenue West  
West Fargo, ND 58078-1301

Enclosures

701-298-2381  
FAX 701-298-2397  
[wrld@casscountynnd.gov](mailto:wrld@casscountynnd.gov)  
[casscountygov.com](http://casscountygov.com)



METRO FLOOD DIVERSION RIGHT OF ENTRY/LAND ACQUISITION COST SHARE INVOICES

Updated 3/28/16

Invoice Paid	Invoice Date	Invoice No.	Project No.	Amount	Vendor	Description
3/10/2016	2/21/2016	140726	100007	785.50	Ohnstad Twichell, P.C.	Legal-Diversion Right of Entry
3/10/2016	2/21/2016	140722	130007	27,642.74	Ohnstad Twichell, P.C.	Legal-Diversion ROW Acquisition
3/10/2016	2/21/2016	140725	90007	5,418.00	Ohnstad Twichell, P.C.	Legal-DA Cost share agreement and P3, open records
3/10/2016	2/21/2016	140766	160007	1,053.00	Ohnstad Twichell, P.C.	Legal-Inlet Right of Entry
3/10/2016	3/3/2016	685627	38810	561.00	Larkin Hoffman Attorneys	Legal-Access

**Total 35,460.24**

IN-TOWN LEVEES INVOICES

Invoice Paid	Invoice Date	Invoice No.	Project No.	Amount	Vendor	Description
03/10/16	02/21/16	140767	160007	3,986.50	Ohnstad Twichell, P.C.	Mondragon Eminent domain action
03/10/16	02/21/16	140768	160007	144.00	Ohnstad Twichell, P.C.	Eminent domain-Oak Terrace Condo
3/15/2016	3/15/2016			1,360,036.23	The Title Company	Acquisition action - Board of Education-FSOC Addition
3/15/2016	3/15/2016			8,093,475.78	The Title Company	Acquisition action - Board of Education-Keeney & Devitt's 2nd /
3/24/2016	2/8/2016	SRF 7715.08		16,500.00	Jordan and Diana Heller	Partial residential price differential
3/24/2016	2/29/2016	2150548		673.51	Fritz Electric	repair service mast on Elm Street
3/24/2016	3/7/2016	492703165		2,006.97	Xcel Energy	Service to 1330, 1326 and 1322 Elm St & 18 N Terrace

**Total 9,476,822.99**

DIVERSION PROJECT ASSESSMENT DISTRICT (DPAC) INVOICES

Invoice Paid	Invoice Date	Invoice No.	Project No.	Amount	Vendor	Description
3/10/2016	2/21/2016	140729	120007	954.00	Ohnstad Twichell, P.C.	Legal-DPAC

**Total 954.00**

OXBOW-HICKSON-BAKKE RING LEVEE INVOICES

Invoice Paid	Invoice Date	Invoice No.	Purchase Order No.	Project No.	Amount	Vendor	Description
3/10/2016	2/21/2016	140731		140007	8,677.69	Ohnstad Twichell, P.C.	Legal-ROW
3/10/2016					3,312.00	Joseph and Jolene Sauvageau	Closing costs
3/10/2016					2,065.00	Joseph and Jolene Sauvageau	Moving costs
3/10/2016	3/3/2016				5,270.00	Dale Mathiason	Moving costs
3/10/2016	3/3/2016			11 invoices	2,881.43	Cass County Electric Cooperative	Service to various addresses
3/24/2016	3/14/2016	1121701			316.97	Cass County Electric Cooperative	Service to 17495 52 St SE
3/10/2016	3/5/2016	5125			1,475.28	Sentry Security Inc	Security patrol services
3/24/2016	3/19/2016	5145			1,485.27	Sentry Security Inc	Security patrol services

**Total 25,483.64**

OXBOW COUNTRY CLUB INVOICES

Invoice Paid	Invoice Date	Invoice No.	Project No.	Amount	Vendor	Description

**Total 0.00**

**Grand Total 9,538,720.87**



**REMITTANCE PAGE**

Diversion Board of Authority  
211 9th Street South  
P.O. Box 2806  
Fargo, ND 58108-2806

**Please remit this page with your payment. Thank you. We appreciate your business.**

Invoice: 1356912  
Client Account: 072720.0001  
Regarding: Government Relations LOB 30321  
Invoice Date: March 7, 2016

---

Total Fees:	\$ 3,500.00
Total This Invoice	\$ 3,500.00

***Payment is due within 30 days from receipt of invoice***

If you have any questions please email [accounting@fredlaw.com](mailto:accounting@fredlaw.com) or contact a client representative at 612.492.7574.

Communications concerning disputed debts, including an instrument tendered as full satisfaction of a debt, are to be sent to Fredrikson & Byron, PA, Attn: Credit Department, 200 South Sixth Street, Suite 4000, Minneapolis, MN 55402

main 612.492.7000 / Fredrikson & Byron, P.A.  
fax 612.492.7077 / Attorneys & Advisors  
www.fredlaw.com / P.O. Box 1484  
Tax ID No. 41-0971937 / Minneapolis, Minnesota  
55480-1484

**INVOICE DETAIL**

Diversion Board of Authority  
211 9th Street South  
P.O. Box 2806  
Fargo, ND 58108-2806

**Invoice:** 1356912  
**Client Account:** 072720.0001  
**Regarding:** Government Relations LOB 30321  
**Invoice Date:** March 7, 2016

Government Relations flat fee payment 9 of 12.

<b>Total For Fees</b>	<b>\$ 3,500.00</b>
-----------------------	--------------------

<b>Total This Invoice</b>	<b>\$ 3,500.00</b>
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**REMITTANCE PAGE**

Diversion Board of Authority  
211 9th Street South  
P.O. Box 2806  
Fargo, ND 58108-2806

**Please remit this page with your payment. Thank you. We appreciate your business.**

Invoice: 1361525  
Client Account: 072720.0001  
Regarding: Government Relations LOB 30321  
Invoice Date: April 6, 2016

---

Total Fees:	\$ 3,500.00
Total This Invoice	\$ 3,500.00

***Payment is due within 30 days from receipt of invoice***

If you have any questions please email [accounting@fredlaw.com](mailto:accounting@fredlaw.com) or contact a client representative at 612.492.7574.

**INVOICE DETAIL**

Diversion Board of Authority  
211 9th Street South  
P.O. Box 2806  
Fargo, ND 58108-2806

**Invoice:** 1361525  
**Client Account:** 072720.0001  
**Regarding:** Government Relations LOB 30321  
**Invoice Date:** April 6, 2016

Government Relations flat fee payment 10 of 12.

<b>Total For Fees</b>	<b>\$ 3,500.00</b>
<b>Total This Invoice</b>	<b>\$ 3,500.00</b>

***Payment is due within 30 days from receipt of invoice***

If you have any questions please email [accounting@fredlaw.com](mailto:accounting@fredlaw.com) or contact a client representative at 612.492.7574.

Erik R. Johnson & Associates, Ltd.  
*Attorneys at Law*

STATEMENT OF ACCOUNT FOR PROFESSIONAL SERVICES

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

February 29, 2016  
Invoice No. 2399

RE: Metro Flood Project-LEERDS Matters

---

For Legal Services Rendered Through February 29, 2016

INVOICE TOTAL

Total for Current Legal Fees	\$430.10
Total for Current Disbursements and Service Charges	\$0
<b>Total for Current Invoice</b>	<b>\$430.10</b>

Summary of Account

*Prior Balance Due	\$0
Total Amount Due	\$430.10

\*If payment has been submitted for prior balance due, please disregard.

790-7930-429.33-25 000103

We appreciate your business.

*Erik R. Johnson & Associates, Ltd*

*Attorneys at Law*

*Erik R. Johnson - Nancy J. Morris*

*505 Broadway - Suite 206*

*Fargo, ND 58102*

*(701) 280-1901*

City of Fargo -- Auditor's Office  
Attn: Kent Costin  
200 North 3rd Street  
Fargo, ND 58102

Date	2/25/2016
Invoice #	2399-

Description	Qty	Rate	Amount
Metro Flood Project -- LERRDS: Nancy J Morris: Jan 26 thru Feb 25, 2016--itemization enclosed	2.3	187.00	430.10

*We appreciate your business.*

**TOTAL: \$430.10**

Erik R. Johnson & Associates, Ltd.  
*Attorneys at Law*

STATEMENT OF ACCOUNT FOR PROFESSIONAL SERVICES

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

February 29, 2016  
Invoice No. 2398

RE: Metro Flood Project-General Legal Matters

---

**For Legal Services Rendered Through February 29, 2016**

**INVOICE TOTAL**

Total for Current Legal Fees	\$7290.20
Total for Current Disbursements and Service Charges	\$
<b>Total for Current Invoice</b>	<b>\$1196.19</b>

**Summary of Account**

*Prior Balance Due	\$0
Total Amount Due	\$8486.39

\*If payment has been submitted for prior balance due, please disregard.

790-7910-429.33-25 00002

We appreciate your business.

*Erik R. Johnson & Associates, Ltd*  
*Attorneys at Law*  
*Erik R. Johnson - Nancy J. Morris*  
*505 Broadway - Suite 206*  
*Fargo, ND 58102*  
*(701) 280-1901*

City of Fargo -- Auditor's Office  
 Attn: Kent Costin  
 200 North 3rd Street  
 Fargo, ND 58102

Date	2/25/2016
Invoice #	2398-

Description	Qty	Rate	Amount
Metro Flood Project--general legal matters:			
Erik Johnson: Jan 26 thru Feb 25, 2016--itemization enclosed	21.7	211.00	4,578.70
Nancy J Morris: Jan 26 thru Feb 25, 2016--itemization enclosed	14.5	187.00	2,711.50
ND Telephone Company - Conference Calls - Invoice 01.27.2016		94.43	94.43
ND Telephone Company - Conference Calls - Invoice 02.20.2016		1101.76	1,101.76

*We appreciate your business.*

**TOTAL: \$8,486.39**





## ROADWAY SURFACING/RESURFACING PROCESS INSTRUCTIONS

### Licensing Process:

1. Once application package is received by Jones Lang LaSalle Brokerage, Inc. (JLL), the application and drawing will be forwarded to the engineering firm to prepare the Exhibit "A" drawings for the contract. **This process takes approximately 10 to 15 working days.**
2. When the Exhibit "A" is completed, information will be forwarded to the local BNSF Roadmaster for approval. Once approved, a contract will be prepared and two (2) copies will be forwarded to you for an original signature. A letter will be sent to you that will provide directions regarding insurance and any additional fees.
3. Return the signed contracts (2 contracts with original signatures), along with the appropriate **payment and Certificates of Insurance** to JLL's Permit Department.
4. The final contracts, with original signatures, are presented for execution provided payment has been received and insurance has been approved.
5. Once the contract is executed, one original will be returned to you for your files.
6. Prior to commencing any work on the Premises, Licensee shall complete and shall require its contractor (all parties who will be working on the site) to complete the safety training program at Internet Website <http://www.contractororientation.com>. This training must be completed no more than one year in advance of Licensee's entry on the Premises.
7. The cover letter and the executed contract will list the Roadmaster's name and phone number. **You will need to contact the Roadmaster thirty (30) days prior to beginning work.**

### Process Time:

Please be advised that the average time period for completion of this process is 4 weeks from the time that the application is received. Every effort will be made to complete this process in a timely manner

### Insurance Requirements for the following Agreement:

	<b>Temporary Occupancy</b>
<b>Commercial General Liability Insurance</b>	Contractual Liability with a combined single limit of a minimum of \$2,000,000 each occurrence and an aggregate limit of at least \$4,000,000.
<b>Business Automobile Insurance</b>	Combined single limit of at least \$1,000,000 per occurrence.
<b>Workers Compensation and Employers Liability Insurance</b>	Employers' Liability with limits of at least \$500,000 each accident, \$500,000 by disease policy limit, \$500,000 by disease each employee.
<b>Railroad Protective Liability Insurance</b>	Coverage of at least \$2,000,000 per occurrence and \$6,000,000 in the aggregate, with the exception of New Mexico in which coverage is \$5,000,000 per occurrence and \$10,000,000 in the aggregate
<b>Note:</b> These limits are subject to change without notice. An Agreement will be provided to you, which contains details	

concerning insurance requirements.

**Please send the following so we may process your License request:**

1. If License is for a Seismic Survey send a copy of your **Lease Agreement**.
2. **Completed Application**.
3. **\$775 non-refundable processing fee**. Check should be made payable to BNSF Railway Company.
4. **One set of drawings** (no larger than 11 x 17) for the area to be occupied. (Include: streets, distance from tracks and streets, mileposts if available and any distinguishing land marks.) Please ensure all information is accurate, as each change will add an additional \$775 to the processing fee.

Forward application and payments to:  
Jones Lang LaSalle Brokerage, Inc.  
Attn: Permit Services  
4300 Amon Carter Blvd.  
Suite 100  
Ft. Worth, TX 76155





APPLICATION FOR ROADWAY SURFACING/RESURFACING

Jones Lang LaSalle Brokerage, Inc.
Attn: Permit Services
4300 Amon Carter Blvd.
Suite 100
Fort Worth, TX 76131-2800

Applicants Tax ID #
or SS #

We submit for your approval the following application for temporary occupancy on BNSF Railway Company's right of way as shown on the enclosed sketch.

Legal Name of Contractor performing work:
Project is yet to be awarded
If a corporation State in which incorporated
Contact Name: Phone # FAX
Mailing Address:
Email Address:

Legal Name of Roadway Authority that will occupy the property: City of Fargo
If a corporation State in which incorporated ND
Contact Name: Nathan Boerboom Phone # 701-241-1545 FAX
Mailing Address: 200 3rd St N Fargo, ND 58102
Email Address: nboerboom@cityoffargo.com

Is this project ARRA funded? Yes No
Is this a condemning authority? Yes No
Is Applicant a Railroad Shipper? Yes No
If yes, BNSF Marketing Rep Name Phone #
Was this service requested by BNSF? Yes No
If yes, BNSF person requesting service Phone #
Is this in conjunction with a track or track expansion project? Yes No
If yes, BNSF contact name Phone #

Scope of Services to be performed? Existing roadway has 4 lanes of traffic, the proposed plan is to slim the roadway down to 2 lanes of traffic. There will be a sidewalk for pedestrian access added to the east side of the roadway.

Name of nearest town on RR Fargo County Cass State ND
Name of nearest roadway crossing 2nd St N
RR
Location of proposed occupancy SE 1/4 Section 6 Township 139 Range 48
Railroad Milepost 23.1 Latitude 46 deg 52'52" N Longitude 96 deg 46'54" W

Is the work to be performed within 50 ft. of the track? Yes No
Area to be occupied 20 ft. (x) 40 ft.
Length of time for Project: Date from: July 1, 2016 Date to: August 1, 2017
Will a crossing under the railroad tracks be required? Yes No

If yes, location of railroad mileposts Underpass Bridge 23.1
Percentage of project to be conducted on RR property: 5 % Total Cost of Project: \$ Engineers Estimate \$75,000.00

Attached to this sheet is a location plan and a detailed sketch. Shown on the sketch are exact dimensions of the project area and distances to the centerline of nearest railroad track and road crossing, bridge or other railroad structure.

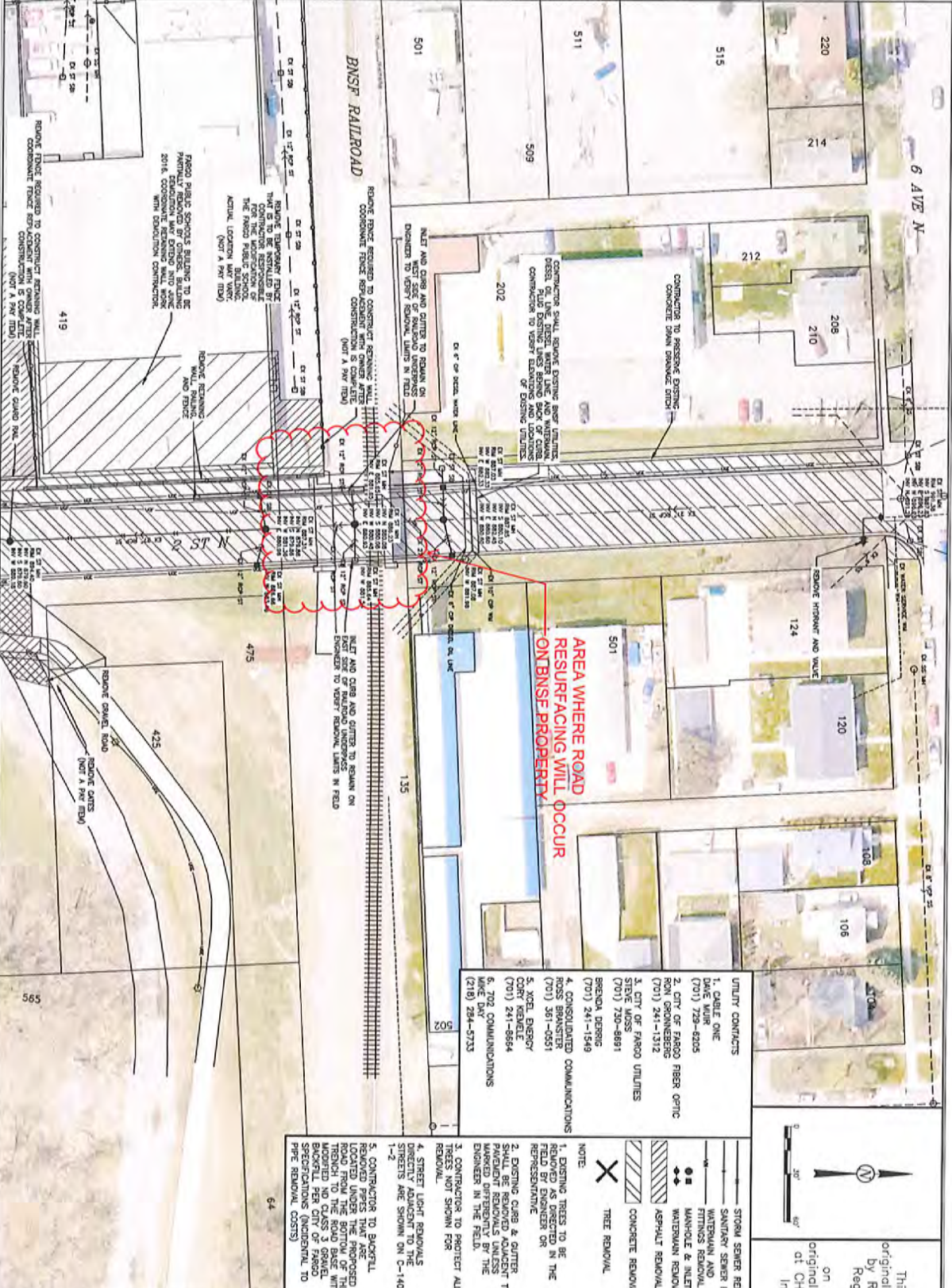
I understand that submission of this application *does not* authorize occupancy of the property. Exact fees and insurance requirements will be forwarded after the application has been reviewed and approved by the BNSF.

Date: 3/18/16

Signed: \_\_\_\_\_  
Print Name: Keith Berndt  
Title: Cass County Administrator  
Phone #: 701-241-5770      FAX 701-237-5101

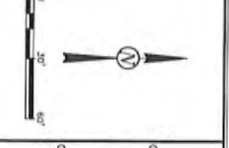
If you require additional assistance, please contact your [Jones Lang LaSalle Brokerage, Inc.](#) representative.





**AREA WHERE ROAD RESURFACING WILL OCCUR ON BNSF PROPERTY**

- UTILITY CONTRACTS**
- 1. CABLE ONE (701) 729-6205
  - 2. CITY OF FARGO FIBER OPTIC (701) 241-1312
  - 3. CITY OF FARGO UTILITIES (701) 730-8891
  - 3. STEVE MOSS (701) 730-8891
  - BERGDA SERVICES (701) 241-1949
  - 4. CONSULTANT COMMUNICATIONS (701) 581-0551
  - 5. XCEL ENERGY (701) 241-8884
  - 6. 702 COMMUNICATIONS MAKE DAY (218) 284-5733



- NOTE**
- 1. EXISTING TREES TO BE REMOVED AS DIRECTED IN THE FIELD BY ENGINEER OR REPRESENTATIVE
  - 2. EXISTING CURB & GUTTER SHALL BE REMOVED UNLESS OTHERWISE SPECIFIED BY THE ENGINEER IN THE FIELD
  - 3. CONTRACTORS TO PROTECT ALL REMOVAL
  - 4. STREET LIGHT REMOVALS TO BE SHOWN ON C-140 1-2
  - 5. CONTRACTORS TO SCHEDULE REMOVED TREES THAT ARE LOCATED UNDER THE PROPOSED ROAD FROM THE BOTTOM OF THE EXISTING CURB TO THE TOP OF THE ADJACENT NO CLASS 3 GRAVEL BACKFILL PER CITY OF FARGO SPECIFICATIONS (INCIDENTAL TO TREE REMOVAL COSTS)

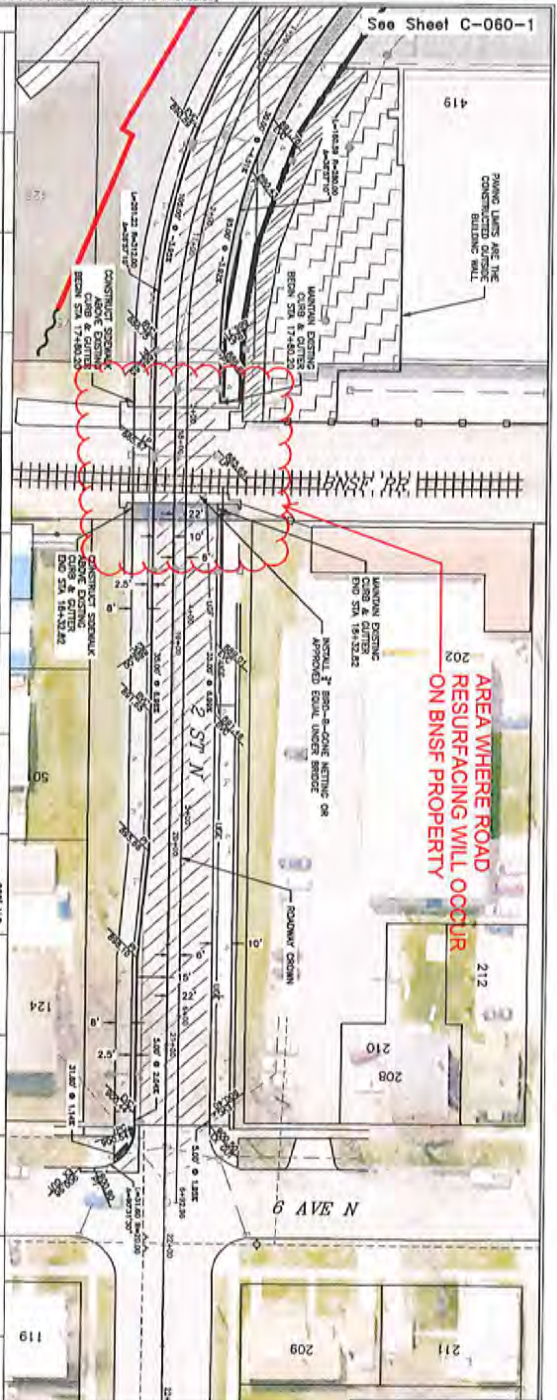
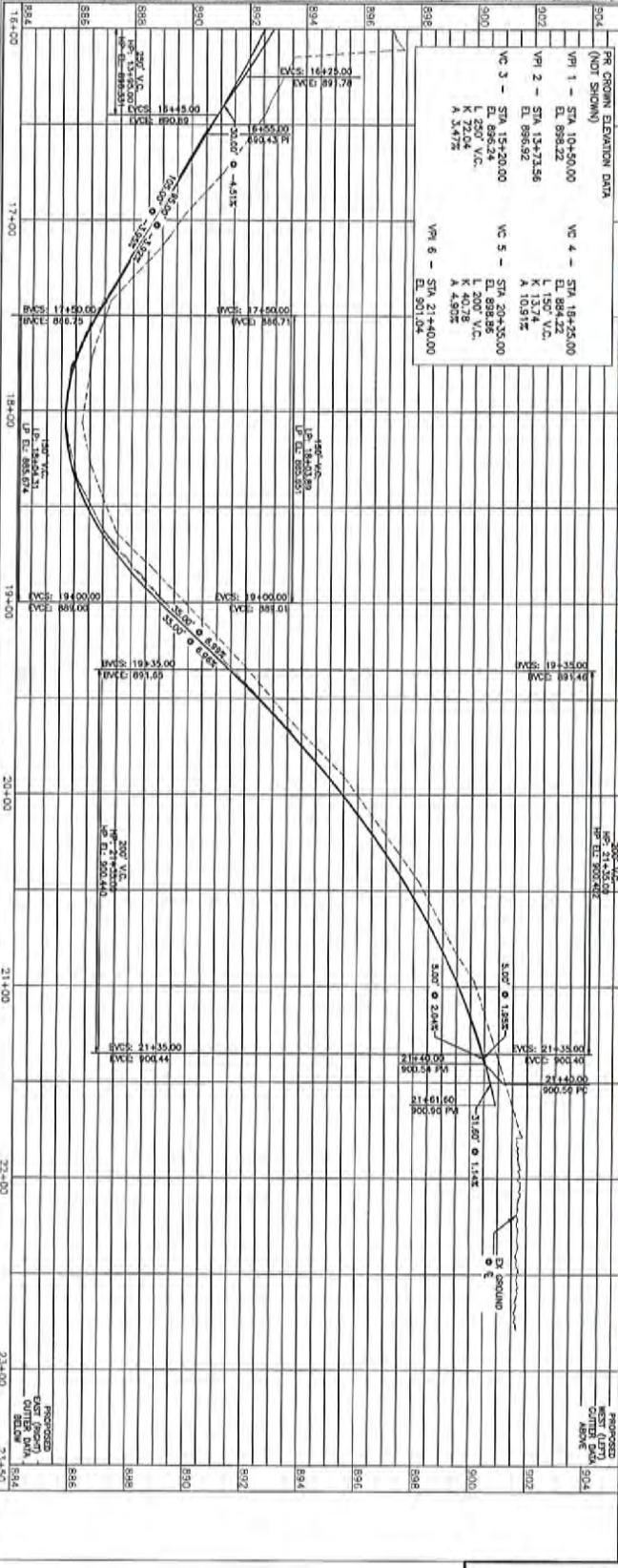
This document was originally issued and sealed by Randy G. Engelstad  
 Registration Number PE-6676  
 on 3/4/16 and the original document is stored at CH2M Hill Engineering Inc., Fargo, N.D.

ELEVATION DATUM (VERTICAL CONTROL)	COORDINATE SYSTEM (HORIZONTAL CONTROL)
NAVD 88	NAD 83 (1983)
GEOD03	FARGO GROUND - US SURVEY FEET
DATE	2ND STREET/DOWNTOWN - IN-TOWN LEVEES
REVISION	2ND STREET N FLOODWALL
REVISION	RED RIVER OF THE NORTH RIVER BASIN
REVISION	FARGO-MOORHEAD FLOOD RISK MANAGEMENT
REVISION	CASS COUNTY, NORTH DAKOTA
REVISION	REMOVALS
FILE NAME	
PROJECT NO. WPA0718	
DRAWN BY JAMBUS	
CHECKED BY ROE	
PROJECT MANAGER: COT	
PROJECT ENGINEER:	

**HMG**  
 HOUSTON - MOORE GROUP

**C-040-2**





AREA WHERE ROAD RESURFACING WILL OCCUR ON BNSF PROPERTY

IMPRESSIONED	DESCRIPTION
[Symbol]	CONC. SIDEWALK (2IN BASE)
[Symbol]	6IN THICKENED RC PAVT (2IN BASE)
[Symbol]	6IN HOT BIT PAVT FMA 43 (2IN BASE)
[Symbol]	6IN HOT BIT PAVT FMA 43 (2IN RC PAVT)
[Symbol]	6IN DOWNED RC PAVT (2IN RC PAVT)

NOTES:  
 1. ALL GRADES ARE FLOWLINE GRADES UNLESS NOTED.  
 2. ALL CURB IS STANDARD TYPE II UNLESS OTHERWISE NOTED.  
 3. RC = REINFORCED CONCRETE.

This document was originally issued and sealed by Adam M. Ruid Registration Number PE-10407 on 3/4/16 and the original document is stored at CH2M Hill Engineering Inc., Fargo, N.D.

PROJECT NO.	7400-13
DRAWN BY	AMM
CHECKED BY	JTL, GCE
PROJECT MANAGER	GM
PROJECT ENGINEER	
DATE	3-16-16
SCALE	AS SHOWN
REVISED	
REVISION	
RECORD	
FILE NAME	

ELEVATION DATUM (VERTICAL CONTROL) **NAVD 83**  
 COORDINATE SYSTEM (HORIZONTAL CONTROL) **NAD 83 / FARGO GROUND - US SURVEY FEET**

**HMG**  
 HOUSTON - MOORE GROUP

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



MINNEAPOLIS OFFICE  
612-340-2600

(Tax Identification No. 41-0223337)

STATEMENT OF ACCOUNT FOR PROFESSIONAL SERVICES

Fargo-Moorhead Flood Diversion Bd of Authority  
c/o Erik R. Johnson & Associates, Ltd.  
Attn: Erik Johnson  
505 Broadway, Suite 206  
Fargo, ND 58102

March 18, 2016  
Invoice No. 3266149

RECEIVED  
DATE 3-21-16

Client-Matter No.: 491379-00001  
Red River Diversion Project

For Legal Services Rendered Through February 29, 2016

INVOICE TOTAL

Total For Current Legal Fees	\$54,505.25
<b>Total For Current Invoice</b>	<b>\$54,505.25</b>
<b>Summary of Account</b>	
*Prior Balance Due	\$73,223.58 - PD 4/3/16
Total Amount Due	\$127,728.83
*If payment has been submitted for prior balance due, please disregard.	

790-7930-429-33.25 V00101

For your convenience, please remit payment to the address below or we offer the option of remitting payment electronically by wire transfer. If you have any questions regarding this information, please contact the lawyer you are working with on this project or Dorsey's Accounts Receivable Department at 1-800-861-0760. Thank you.

Mailing Instructions:  
Dorsey & Whitney LLP  
P.O. Box 1680  
Minneapolis, MN 55480-1680

Wire Instructions:  
U.S. Bank National Association  
800 Nicollet Mall  
Minneapolis, MN 55402

ABA Routing Number: 091000022  
Account Number: 1602-3010-8500  
Swift Code: USBKUS44IMT

Please make reference to the invoice number

Service charges are based on rates established by Dorsey & Whitney. A schedule of those rates has been provided and is available upon request. Disbursements and service charges, which either have not been received or processed, will appear on a later statement.

ALL INVOICES ARE DUE 30 DAYS FROM DATE OF INVOICE UNLESS OTHERWISE EXPRESSLY AGREED BY DORSEY & WHITNEY



Office of the City Attorney

City Attorney  
Erik R. Johnson

Assistant City Attorney  
Nancy J. Morris

March 30, 2016

Kent Costin  
Finance Director  
City of Fargo  
200 North Third Street  
Fargo, ND 58102

**Re: Red River Diversion Project**

Dear Kent:

I am enclosing a Summary Invoice dated March 18, 2016 from the Dorsey & Whitney Firm in Minneapolis for their professional services rendered through February 29, 2016 on the Red River Diversion Project. If you have any questions, please feel free to contact me. Please remit payment directly to Dorsey Whitney.

Sincerely,

A handwritten signature in black ink, appearing to be "ERJ", written over a horizontal line.

Erik R. Johnson

ERJ/lmw  
Enclosure  
cc: Bruce Grubb

790-7430 - 421.33-25

V00101





Erik R. Johnson & Associates, Ltd.  
*Attorneys at Law*

STATEMENT OF ACCOUNT FOR PROFESSIONAL SERVICES

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

March 25, 2016  
Invoice No. 2415

RE: Metro Flood Project-LERRDS

---

For Legal Services Rendered Through March 25, 2016

**INVOICE TOTAL**

Total for Current Legal Fees	\$1158.00
Total for Current Disbursements and Service Charges	\$
<b>Total for Current Invoice</b>	<b>\$1158.00</b>

**Summary of Account**

*Prior Balance Due	\$0
Total Amount Due	\$1158.00

\*If payment has been submitted for prior balance due, please disregard.

We appreciate your business.

505 Broadway Street North • Suite 206 • Fargo, ND 58102  
Phone: (701) 280-1901 • • • Fax: (701) 280-1902

*Erik R. Johnson & Associates, Ltd*

*Attorneys at Law*

*Erik R. Johnson - Nancy J. Morris*

*505 Broadway - Suite 206*

*Fargo, ND 58102*

*(701) 280-1901*

City of Fargo -- Auditor's Office  
Attn: Kent Costin  
200 North 3rd Street  
Fargo, ND 58102

Date	3/25/2016
Invoice #	2415-

Description	Qty	Rate	Amount
Metro Flood Project -- LERRDS matters:			
Erik Johnson: Feb 26 thru Mar 25, 2016-itemization enclosed	1.5	211.00	316.50
Nancy J. Morris: Feb 26 thru Mar 25, 2016-itemization enclosed	4.5	187.00	841.50
<i>We appreciate your business.</i>			<b>TOTAL: \$1,158.00</b>

Erik R. Johnson & Associates, Ltd.  
*Attorneys at Law*

STATEMENT OF ACCOUNT FOR PROFESSIONAL SERVICES

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

March 25, 2016  
Invoice No. 2414

RE: Metro Flood Project-General Legal Matters

---

**For Legal Services Rendered Through March 25, 2016**

**INVOICE TOTAL**

Total for Current Legal Fees	\$4395.80
Total for Current Disbursements and Service Charges	\$
<b>Total for Current Invoice</b>	<b>\$4395.80</b>

**Summary of Account**

*Prior Balance Due	\$0
Total Amount Due	\$4395.80

\*If payment has been submitted for prior balance due, please disregard.

We appreciate your business.

*Erik R. Johnson & Associates, Ltd*  
*Attorneys at Law*

*Erik R. Johnson - Nancy J. Morris*

*505 Broadway - Suite 206*

*Fargo, ND 58102*

*(701) 280-1901*

City of Fargo -- Auditor's Office  
Attn: Kent Costin  
200 North 3rd Street  
Fargo, ND 58102

Date	3/25/2016
Invoice #	2414-

Description	Qty	Rate	Amount
Metro Flood Project -- General legal matters:			
Erik Johnson: Feb 26 thru Mar 25, 2016-itemization enclosed	13.3	211.00	2,806.30
Nancy J. Morris: Feb 26 thru Mar 25, 2016-itemization enclosed	8.5	187.00	1,589.50

*We appreciate your business.*

**TOTAL: \$4,395.80**



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

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

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

April 07, 2016  
Project No: 012265.100  
Invoice No: 1

For Professional Services through March 31, 2016  
Re: Financial Feasibility Analysis (Progress Billing)

Professional Personnel

	Hours	Rate	Amount	
Principal, Senior Officer	54.00	260.00	14,040.00	
Officer, Project Manager	9.10	215.00	1,956.50	
Support Staff	2.50	75.00	187.50	
Totals	65.60		16,184.00	
Total Labor				16,184.00
		Total this Invoice		\$16,184.00

---

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

Payment is due on receipt of this billing. After 30 days, interest will be charged on any balance 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

15-1395 JTS Invoice # 141672  
Flood Diversion Board  
Bond Counsel Work – PPP

DATE: April 8, 2016

To: Flood Diversion Board  
PO Box 2806  
Fargo, ND 58108-2806

AMOUNT REMITTED \$ \_\_\_\_\_

Please detach. Return upper portion with your payment.  
Payments received after the statement date will be reflected on next month's statement. Thank you.

---

---

**PROFESSIONAL SERVICES RENDERED**

Attorney	Hours	Rate	Fees
JTS	68.8	\$290.00	\$19,952.00
CMM	0.7	\$290.00	\$203.00
RGH	2.9	\$290.00	\$841.00
KJB	79.6	\$225.00	\$17,910.00
LWC	5.5	\$150.00	\$825.00
AJM	63.9	\$125.00	\$7,987.50
CAS	0.1	\$150.00	\$15.00
NO CHARGE	9.7		\$0.00
<b>Total</b>	<b>231.2</b>		<b>\$47,733.50</b>

Expenses:	
Westlaw Research	\$ 500.00
UPS Package	\$11.32
Travel Expense	\$2,487.22
<b>Total</b>	<b>\$50,732.04</b>

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

	Hourly Rate
JTS - John T. Shockley, Partner	\$290.00
CMM - Christopher M. McShane, Partner	\$290.00
RGH, Robert G. Hoy, Partner	\$290.00
KJB - Katie J. Bertsch, Associate	\$225.00
LWC - Lucas W. Croaker, Law Clerk	\$150.00
AJM - Andrea J. Murphy, Paralegal	\$125.00
CAS - Carol A. Stillwell, Paralegal	\$150.00

**15-1395 JTS - Flood Diversion Board - Bond Counsel Work – PPP Research 1**

OHNSTAD TWICHELL, P.C.  
WEST FARGO, NORTH DAKOTA 58078

COST ADVANCES BY US FOR YOUR ACCOUNT, FOR WHICH WE HAVE NOT  
BEEN BILLED, WILL APPEAR ON YOUR NEXT STATEMENT.

Bill#: 908891  
 Owner Name: METRO FLOOD DIVERSION AUTHORITY

Property ID Number: 15.031.1201



Taxpayer: METRO FLOOD DIVERSION AUTHORITY  
 211 9TH ST S  
 FARGO ND 58103-1833



**\$\$\$**  
**REFUNDS?**

*You may be eligible for one or even two refunds to reduce your property tax. Read the back of this statement to find out how to apply.*

Property Description:  
 Acres: 2.19  
 .19 AC OF LOT 1 BEG 2788.68'W OF NE COR  
 TRACT B) 31-137-48  
 Section 31 Township 137 Range 04E

**2016 Property Tax Statement**

		VALUES AND CLASSIFICATION	
		Taxes Payable Year:	
		2015	2016
Step 1	Estimated Market Value:	2,200.00	2,200.00
	Improvements Excluded:		
	Homeslead Exclusion:	0.00	0.00
	Taxable Market Value:	2,200.00	2,200.00
	New Improvements/ Expired Exclusions:		
Property Classification:		NH Rur Vac Land	NH Rur Vac Land
Step 2	PROPOSED TAX		
		\$12.00	
Step 3	PROPERTY TAX STATEMENT		
First half taxes due:		5/16/2016	12.00
Second half taxes due:			0.00
Total Taxes Due in 2016:			12.00

Tax Detail for Your Property:		2015	2016	
Taxes Payable Year:				
1. Use this amount on Form M1PR to see if you are eligible for a property tax refund. File by August 15. If this box is checked, you owe delinquent taxes and are not eligible.		<input type="checkbox"/>	0.00	
2. Use these amounts on Form M1PR to see if you are eligible for a special refund.		0.00		
Tax and Credits	3. Property taxes before credits	12.00	12.00	
	4. Credits that reduce property taxes			
	A. Agricultural market value credits B. Other Credits	0.00 0.00	0.00 0.00	
5. Property taxes after credits		12.00	12.00	
Property Tax by Jurisdiction	6. County Clay	9.76	9.47	
	7. City or Town TOWN OF HOLY CROSS			
	8. State General Tax	0.76	0.85	
	9. School District SCHOOL DISTRICT 146	0.00	0.00	
	10. Special Taxing Districts	A. School District Other	1.10	1.30
		B. School District Voter Approved	0.00	0.00
		A. Special Taxing Districts	0.38	0.38
		B. TIF	0.00	0.00
	C.			
	D.			
	11. Non-school voter approved referenda levies	0.00	0.00	
12. Total property tax before special assessments	12.00	12.00		
13. Special assessments	Principal: 0.00 Interest: 0.00	0.00	0.00	
14. YOUR TOTAL PROPERTY TAX AND SPECIAL ASSESSMENTS		12.00	12.00	

**PAYABLE 2016 2<sup>nd</sup> HALF PAYMENT STUB**

TO AVOID PENALTY PAY ON OR BEFORE:

**2**

Property ID#:

SECOND 1/2 TAX AMOUNT DUE: 0.00

Bill #:  
Taxpayer:

PENALTY: MAKE CHECKS PAYABLE & MAIL TO:  
 Clay County Auditor-Treasurer  
 807 11th Street North • P.O. Box 280  
 Moorhead, Minnesota 56561-0280



Your cancelled check is proof of payment. Please write your Property ID # on your check. Postdated checks are not held. Only official U.S. Postmark determines payment mail date. No receipt sent unless requested and is void until check is honored.

**PAYABLE 2016 1<sup>st</sup> HALF PAYMENT STUB**

TO AVOID PENALTY PAY ON OR BEFORE: 5/16/2016

**1**

Property ID#: 15.031.1201

FULL TAX AMOUNT: 12.00  
 FIRST 1/2 TAX AMOUNT DUE: 12.00

Bill #: 908891

Taxpayer: METRO FLOOD DIVERSION AUTHORITY  
 211 9TH ST S  
 FARGO ND 58103-1833

PENALTY: MAKE CHECKS PAYABLE & MAIL TO:

Clay County Auditor-Treasurer  
 807 11th Street North • P.O. Box 280  
 Moorhead, Minnesota 56561-0280



Your cancelled check is proof of payment. Please write your Property ID # on your check. Postdated checks are not held. Only official U.S. Postmark determines payment mail date. No receipt sent unless requested and is void until check is honored.



CLAY COUNTY ASSESSOR  
 807 11TH ST NORTH  
 MOORHEAD, MN 56580  
 218-299-5017  
 www.claycountymn.gov

# VALUATION NOTICE

2016 Values for Taxes Payable in **2017**

Property tax notices are delivered on the following schedule:  
 Valuation and Classification Notice

**Step 1** Class: NH Rur Vac Land *See Details Below*  
 Estimated Market Value: 2,200  
 Homestead Exclusion:  
 Taxable Market Value: 2,200

**Step 2** Proposed Taxes Notice  
 Notice of Proposed Taxes Coming November 2016

**Step 3** Property Tax Statement  
 Property Tax Statement for taxes payable in 2017 Coming March 2017

The time to appeal or question your  
**CLASSIFICATION or VALUATION**  
 is **NOW!**  
 It will be too late when proposed taxes are sent

**Taxpayer:** METRO FLOOD DIVERSION AUTHORITY  
 211 9TH ST S  
 FARGO ND 58103-1833



Property ID#: 15.031.1201

You must have appealed to the Local Board of Appeal meeting first in order to appear before the County Board of Appeal. To appear at the County Board of Appeal you must call the Assessor to get on the agenda.	<b>Property Information</b> (legal description and/or property address)
	2.19 AC OF LOT 1 BEG 2758.69'W OF NE COR (TRACT B) 31-137-48 Section 31 Township 137 Range 048  Property Address:

Your Property's Classification(s) and Values	Taxes Payable in 2016 (2015 Assessment)	Taxes Payable in 2017 (2016 Assessment)	
<i>The assessor has determined your property's classification(s) to be:</i>	NH Rur Vac Land	NH Rur Vac Land	<input type="checkbox"/> If this box is checked, your classification has changed from last year's assessment.
<i>The assessor has estimated your property's market value to be:</i>			The classification(s) of your property affect the rate at which your value is taxed.
<b>Estimated Market Value:</b>	2,200	2,200	<i>New Improvements Included in 2016 Estimated Market Value: \$</i>
<i>Several factors can reduce the amount that is subject to tax:</i>			
Green Acres Value Deferral			
Rural Preserve Value Deferral			
Platted Vacant Land Exclusion			
JOBZ Amount Exempted			
This Old House Exclusion			
Disabled Veterans Exclusion			
Mold Damage Exclusion			
Homestead Market Value Exclusion			
<b>Taxable Market Value (TMV)</b>	2,200	2,200	

**HOW TO RESPOND:** If you believe your valuation and property class are correct, it is not necessary to contact your assessor or attend any listed meeting. If the property information is not correct, you disagree with the values or you have other questions about this notice, please contact your assessor first to discuss any questions or concerns. Often your issues can be resolved at this level. If your questions or concerns are not resolved, more formal appeal options are available. Please read the back of this notice for important information about the formal appeal process.

Local Board of Appeal and Equalization/Open Book Meeting	County Board of Appeal and Equalization
8:00 AM - 4:30 PM THURSDAY, APRIL 21, 2016 COURTHOUSE - 807 11TH ST N, MHD TO SCHEDULE AN APPT CALL 218-299-5017	6:30PM TUESDAY, JUNE 14, 2016 COURTHOUSE - 807 11TH ST N, MHD TO SCHEDULE AN APPT CALL 218-299-5017

Please read the back of this notice for important appeal information



Bill#: 909103  
 Owner Name: METRO FLOOD DIVERSION AUTHORITY

Property ID Number: 15.030.4701



Taxpayer: METRO FLOOD DIVERSION AUTHORITY  
 211 9TH ST S  
 FARGO ND 58103-1833



**\$\$\$**  
**REFUNDS?**

You may be eligible for one or even two refunds to reduce your property tax. Read the back of this statement to find out how to apply.

Property Description:

Acres: 14.11  
 14.11 AC OF GOVT LOT 4 BEG 2595.65' W OF  
 SE COR (TRACT A & A-1) 30-137-48  
 Section 30 Township 137 Range 048

Line 13 Special Assessment Detail:  
 JW-2016 42.00

Principal: 42.00  
 Interest: 0.00

**2016 Property Tax Statement**

		VALUES AND CLASSIFICATION	
Taxes Payable Year:		2015	2016
Step 1	Estimated Market Value:	178,700.00	47,600.00
	Improvements Excluded:		
	Homestead Exclusion:	0.00	0.00
	Taxable Market Value:	0.00	0.00
	New Improvements/Expired Exclusions:		
Property Classification:		Exempt	Exempt
Step 2	PROPOSED TAX		
		\$270.00	
Step 3	PROPERTY TAX STATEMENT		
First half taxes due:		5/16/2016	42.00
Second half taxes due:			0.00
Total Taxes Due in 2016:			42.00

Tax Detail for Your Property:

Taxes Payable Year:		2015	2016	
1. Use this amount on Form M1PR to see if you are eligible for a property tax refund. File by August 15. If this box is checked, you owe delinquent taxes and are not eligible.		<input type="checkbox"/>	0.00	
2. Use these amounts on Form M1PR to see if you are eligible for a special refund.		0.00		
Tax and Credits	3. Property taxes before credits	0.00	0.00	
	4. Credits that reduce property taxes			
A. Agricultural market value credits		0.00	0.00	
B. Other Credits		0.00	0.00	
5. Property taxes after credits		0.00	0.00	
Property Tax by Jurisdiction	6. County Clay	0.00	0.00	
	7. City or Town TOWN OF HOLY CROSS	0.00	0.00	
	8. State General Tax	0.00	0.00	
	9. School District SCHOOL DISTRICT 146			
	A. School District Other		0.00	0.00
	B. School District Voter Approved		0.00	0.00
	10. Special Taxing Districts			
	A. Special Taxing Districts		0.00	0.00
	B. TIF		0.00	0.00
	C.			
D.				
11. Non-school voter approved referenda levies		0.00	0.00	
12. Total property tax before special assessments		0.00	0.00	
13. Special assessments		Principal: 42.00	Interest: 0.00	
		42.00	42.00	
14. YOUR TOTAL PROPERTY TAX AND SPECIAL ASSESSMENTS		42.00	42.00	

**PAYABLE 2016 2<sup>nd</sup> HALF PAYMENT STUB**

TO AVOID PENALTY PAY ON OR BEFORE:

**2**

Property ID#:

SECOND 1/2 TAX AMOUNT DUE:

0.00

Bill #:

PENALTY:

MAKE CHECKS PAYABLE & MAIL TO:

Taxpayer:

Clay County Auditor-Treasurer  
 807 11th Street North • P.O. Box 280  
 Moorhead, Minnesota 56561-0280



Your cancelled check is proof of payment. Please write your Property ID # on your check. Postdated checks are not held. Only official U.S. Postmark determines payment mail date. No receipt sent unless requested and is void until check is honored.

**PAYABLE 2016 1<sup>st</sup> HALF PAYMENT STUB**

TO AVOID PENALTY PAY ON OR BEFORE: 5/16/2016

**1**

Property ID#: 15.030.4701

FULL TAX AMOUNT:

42.00

FIRST 1/2 TAX AMOUNT DUE:

42.00

Bill #: 909103

PENALTY:

MAKE CHECKS PAYABLE & MAIL TO:

Taxpayer: METRO FLOOD DIVERSION AUTHORITY  
 211 9TH ST S  
 FARGO ND 58103-1833

Clay County Auditor-Treasurer  
 807 11th Street North • P.O. Box 280  
 Moorhead, Minnesota 56561-0280



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## 2016 Property Tax Statement

Bill#: 928785  
 Owner Name: METRO FLOOD DIVERSION AUTHORITY

Property ID Number: 15.030.4702

		VALUES AND CLASSIFICATION	
		Taxes Payable Year:	
		2015	2016
Step 1	Estimated Market Value:	53,800.00	48,000.00
	Improvements Excluded:		
	Homestead Exclusion:	0.00	0.00
	Taxable Market Value:	53,800.00	48,000.00
	New Improvements/ Expired Exclusions:		
Property Classification:		Ag Non-Hold	Ag Non-Hold
Step 2	PROPOSED TAX		
		\$272.00	
Step 3	PROPERTY TAX STATEMENT		
First half taxes due:		5/16/2016	136.00
Second half taxes due:		11/15/2016	136.00
Total Taxes Due in 2016:			272.00

Taxpayer: METRO FLOOD DIVERSION AUTHORITY  
 211 9TH ST S  
 FARGO ND 58103-1833

**\$\$\$**  
**REFUNDS?**

*You may be eligible for one or even two refunds to reduce your property tax. Read the back of this statement to find out how to apply.*

Property Description:  
 Acres: 9.52  
 1.62 A IN GOVT LT 4 BEG 2595.65' W OF SE  
 COR OF SEC 30 N 162.84'; NW 222.07'; W  
 189.46' ETC (TRACT C)

Tax Detail for Your Property:		2015	2016
Taxes Payable Year:			
1. Use this amount on Form M1PR to see if you are eligible for a property tax refund. File by August 15. If this box is checked, you owe delinquent taxes and are not eligible.		<input type="checkbox"/>	0.00
2. Use these amounts on Form M1PR to see if you are eligible for a special refund.		0.00	
Tax and Credits	3. Property taxes before credits	302.00	272.00
	4. Credits that reduce property taxes		
	A. Agricultural market value credits	0.00	0.00
B. Other Credits	0.00	0.00	
5. Property taxes after credits		302.00	272.00
Property Tax by Jurisdiction	6. County Clay	247.11	216.76
	7. City or Town TOWN OF HOLY CROSS		
	8. State General Tax	18.64	18.57
	9. School District SCHOOL DISTRICT 146	0.00	0.00
	A. School District Other	26.93	26.39
	B. School District Voter Approved	0.00	0.00
	10. Special Taxing Districts		
	A. Special Taxing Districts	9.32	8.28
	B. TIF	0.00	0.00
	C.		
D.			
11. Non-school voter approved referenda levies	0.00	0.00	
12. Total property tax before special assessments	302.00	272.00	
13. Special assessments	Principal: 0.00      Interest: 0.00	0.00	0.00
14. YOUR TOTAL PROPERTY TAX AND SPECIAL ASSESSMENTS		302.00	272.00

### PAYABLE 2016 2<sup>nd</sup> HALF PAYMENT STUB

TO AVOID PENALTY PAY ON OR BEFORE: 11/15/2016

Property ID#: 15.030.4702

**2**

SECOND 1/2 TAX AMOUNT DUE:

136.00

Bill #: 928785

PENALTY:

MAKE CHECKS PAYABLE & MAIL TO:

Taxpayer: METRO FLOOD DIVERSION AUTHORITY  
 211 9TH ST S  
 FARGO ND 58103-1833

Clay County Auditor-Treasurer  
 807 11th Street North • P.O. Box 280  
 Moorhead, Minnesota 56561-0280



Your cancelled check is proof of payment. Please write your Property ID # on your check.  
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### PAYABLE 2016 1<sup>st</sup> HALF PAYMENT STUB

TO AVOID PENALTY PAY ON OR BEFORE: 5/16/2016

Property ID#: 15.030.4702

**1**

FULL TAX AMOUNT:

272.00

FIRST 1/2 TAX AMOUNT DUE:

136.00

Bill #: 928785

PENALTY:

MAKE CHECKS PAYABLE & MAIL TO:

Taxpayer: METRO FLOOD DIVERSION AUTHORITY  
 211 9TH ST S  
 FARGO ND 58103-1833

Clay County Auditor-Treasurer  
 807 11th Street North • P.O. Box 280  
 Moorhead, Minnesota 56561-0280



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CLAY COUNTY ASSESSOR  
 807 11TH ST NORTH  
 MOORHEAD, MN 56560  
 218-299-5017  
 www.claycountymn.gov

# VALUATION NOTICE

2016 Values for Taxes Payable in **2017**

Property tax notices are delivered on the following schedule:  
 Valuation and Classification Notice

**Taxpayer:** METRO FLOOD DIVERSION AUTHORITY  
 211 9TH ST S  
 FARGO ND 58103-1833



**Step 1** Class: Ag Non-Hstd **See Details Below**  
 Estimated Market Value: 43,500  
 Homestead Exclusion:  
 Taxable Market Value: 43,500

**Step 2** **Proposed Taxes Notice**  
*Notice of Proposed Taxes Coming November 2016*

**Step 3** **Property Tax Statement**  
*Property Tax Statement for taxes payable in 2017 Coming March 2017*

The time to appeal or question your  
**CLASSIFICATION or VALUATION**  
 is **NOW!**

*It will be too late when proposed taxes are sent*

**Property ID#: 15.030.4702**

You must have appealed to the Local Board of Appeal meeting first in order to appear before the County Board of Appeal. To appear at the County Board of Appeal you must call the Assessor to get on the agenda.	<b>Property Information</b> (legal description and/or property address)	
	9.52 A IN GOVT LT 4 BEG 2595.65' W OF SE COR OF SEC 30 N 162.84'; NW 222.07'; W 189.48' ETC (TRACT C)	
Property Address:		
<b>Your Property's Classification(s) and Values</b>	<b>Taxes Payable in 2016 (2015 Assessment)</b>	<b>Taxes Payable in 2017 (2016 Assessment)</b>
<i>The assessor has determined your property's classification(s) to be:</i>	Ag Non-Hstd	Ag Non-Hstd
<i>The assessor has estimated your property's market value to be:</i> <b>Estimated Market Value:</b>	<b>48,000</b>	<b>43,500</b>
<i>Several factors can reduce the amount that is subject to tax:</i>		
Green Acres Value Deferral Rural Preserve Value Deferral Platted Vacant Land Exclusion JOBZ Amount Exempted This Old House Exclusion Disabled Veterans Exclusion Mold Damage Exclusion Homestead Market Value Exclusion		
<b>Taxable Market Value (TMV)</b>	<b>48,000</b>	<b>43,500</b>
<p><b>HOW TO RESPOND:</b> If you believe your valuation and property class are correct, it is not necessary to contact your assessor or attend any listed meeting. If the property information is not correct, you disagree with the values or you have other questions about this notice, please contact your assessor first to discuss any questions or concerns. Often your issues can be resolved at this level. If your questions or concerns are not resolved, more formal appeal options are available. Please read the back of this notice for important information about the formal appeal process.</p>		
<b>Local Board of Appeal and Equalization/Open Book Meeting</b>		<b>County Board of Appeal and Equalization</b>
8:00 AM - 4:30 PM THURSDAY, APRIL 21, 2016 COURTHOUSE - 807 11TH ST N, MHD TO SCHEDULE AN APPT CALL 218-299-5017		6:30PM TUESDAY, JUNE 14, 2016 COURTHOUSE - 807 11TH ST N, MHD TO SCHEDULE AN APPT CALL 218-299-5017

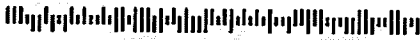
Please read the back of this notice for important appeal information

Bill#: 928893  
 Owner Name: METRO FLOOD DIVERSION AUTHORITY

Property ID Number: 15.031.1202



Taxpayer: METRO FLOOD DIVERSION AUTHORITY  
 211 9TH ST S  
 FARGO ND 58103-1833



**\$\$\$**  
**REFUNDS?**

You may be eligible for one or even two refunds to reduce your property tax. Read the back of this statement to find out how to apply.

Property Description:  
 Acres: 2.02  
 .02 AC IN GOVT LT 1 BEG 2517.15' W OF NE  
 COR OF; S 633.82', NWLY 110.48',  
 VLY 101.84' ETC (TRACT D) 31-137-4B  
 Section 31 Township 137 Range 04B

**2016 Property Tax Statement**

VALUES AND CLASSIFICATION			
Taxes Payable Year:		2015	2016
Step 1	Estimated Market Value:	11,300.00	10,100.00
	Improvements Excluded:		
	Homestead Exclusion:	0.00	0.00
	Taxable Market Value:	11,300.00	10,100.00
	New Improvements/ Expired Exclusions:		
Property Classification:		Ag Non-Held	Ag Non-Held
Step 2	PROPOSED TAX		
		\$58.00	
Step 3	PROPERTY TAX STATEMENT		
First half taxes due:		5/16/2016	58.00
Second half taxes due:			0.00
Total Taxes Due in 2016:			58.00

Tax Detail for Your Property:			
Taxes Payable Year:		2015	2016
1. Use this amount on Form M1PR to see if you are eligible for a property tax refund. File by August 15. If this box is checked, you owe delinquent taxes and are not eligible.		<input type="checkbox"/>	0.00
2. Use these amounts on Form M1PR to see if you are eligible for a special refund.		0.00	
Tax and Credits	3. Property taxes before credits	64.00	58.00
	4. Credits that reduce property taxes		
	A. Agricultural market value credits	0.00	0.00
	B. Other Credits	0.00	0.00
	5. Property taxes after credits	64.00	58.00
Property Tax by Jurisdiction	6. County Clay	52.47	46.38
	7. City or Town TOWN OF HOLY CROSS	3.82	3.91
	8. State General Tax	0.00	0.00
	9. School District SCHOOL DISTRICT 146		
	A. School District Other	5.65	5.97
	B. School District Voter Approved	0.00	0.00
	10. Special Taxing Districts		
	A. Special Taxing Districts	1.96	1.74
	B. TIF	0.00	0.00
	C.		
	D.		
11. Non-school voter approved referenda levies	0.00	0.00	
12. Total property tax before special assessments	64.00	58.00	
13. Special assessments	Principal: 0.00 Interest: 0.00	0.00	0.00
14. YOUR TOTAL PROPERTY TAX AND SPECIAL ASSESSMENTS		64.00	58.00

**PAYABLE 2016 2<sup>nd</sup> HALF PAYMENT STUB**

TO AVOID PENALTY PAY ON OR BEFORE:

Property ID#: \_\_\_\_\_



SECOND 1/2 TAX AMOUNT DUE:

0.00

Bill #:

PENALTY:

MAKE CHECKS PAYABLE & MAIL TO:

Taxpayer:

Clay County Auditor-Treasurer  
 807 11th Street North • P.O. Box 280  
 Moorhead Minnesota 56561-0280



Your cancelled check is proof of payment. Please write your Property ID # on your check. Postdated checks are not held. Only official U.S. Postmark determines payment mail date. No receipt sent unless requested and is void until check is honored.

**PAYABLE 2016 1<sup>st</sup> HALF PAYMENT STUB**

TO AVOID PENALTY PAY ON OR BEFORE: 5/16/2016

Property ID#: 15.031.1202



FULL TAX AMOUNT:

58.00

FIRST 1/2 TAX AMOUNT DUE:

58.00

Bill #: 928893

PENALTY:

MAKE CHECKS PAYABLE & MAIL TO:

Taxpayer: METRO FLOOD DIVERSION AUTHORITY  
 211 9TH ST S  
 FARGO ND 58103-1833

Clay County Auditor-Treasurer  
 807 11th Street North • P.O. Box 280  
 Moorhead, Minnesota 56561-0280



Your cancelled check is proof of payment. Please write your Property ID # on your check. Postdated checks are not held. Only official U.S. Postmark determines payment mail date. No receipt sent unless requested and is void until check is honored.



CLAY COUNTY ASSESSOR  
 807 11TH ST NORTH  
 MOORHEAD, MN 56560  
 218-299-5017  
 www.claycountymn.gov

# VALUATION NOTICE

## 2017

2016 Values for Taxes Payable In  
 Property tax notices are delivered on the following schedule:  
 Valuation and Classification Notice

**Taxpayer: METRO FLOOD DIVERSION AUTHORITY**  
 211 9TH ST S  
 FARGO ND 58103-1833



**Step 1** Class: Ag Non-Hstd *See Details Below*  
 Estimated Market Value: 9,100  
 Homestead Exclusion:  
 Taxable Market Value: 9,100

**Step 2** Proposed Taxes Notice  
 Notice of Proposed Taxes Coming November 2016

**Step 3** Property Tax Statement  
 Property Tax Statement for taxes payable in 2017 Coming March 2017

The time to appeal or question your  
**CLASSIFICATION or VALUATION**  
 is NOW!  
*It will be too late when proposed taxes are sent*

**Property ID#: 15.031.1202**

<p>You must have appealed to the Local Board of Appeal meeting first in order to appear before the County Board of Appeal. To appear at the County Board of Appeal you must call the Assessor to get on the agenda.</p>	<p><b>Property Information</b> (legal description and/or property address)</p> <p>2.02 AC IN GOVT LT 1 BEG 2517.15' W OF NE COR OF; S 533.82', NWLY 110.48', WLY101.94' ETC (TRACT D) 31-137-48          Section 31 Township 137 Range 048</p> <p>Property Address:</p>									
<p><b>Your Property's Classification(s) and Values</b></p> <p><i>The assessor has determined your property's classification(s) to be:</i></p> <p><i>The assessor has estimated your property's market value to be:</i>  <b>Estimated Market Value: 10,100</b></p> <p><i>Several factors can reduce the amount that is subject to tax:</i></p> <ul style="list-style-type: none"> <li>Green Acres Value Deferral</li> <li>Rural Preserve Value Deferral</li> <li>Platted Vacant Land Exclusion</li> <li>JOBZ Amount Exempted</li> <li>This Old House Exclusion</li> <li>Disabled Veterans Exclusion</li> <li>Mold Damage Exclusion</li> <li>Homestead Market Value Exclusion</li> </ul> <p><b>Taxable Market Value (TMV) 10,100</b></p>	<table style="width: 100%; border-collapse: collapse;"> <thead> <tr> <th style="width: 30%; text-align: left;">Taxes Payable in 2016 (2015 Assessment)</th> <th style="width: 30%; text-align: left;">Taxes Payable in 2017 (2016 Assessment)</th> <th style="width: 40%;"></th> </tr> </thead> <tbody> <tr> <td style="text-align: left;">Ag Non-Hstd</td> <td style="text-align: left;">Ag Non-Hstd</td> <td style="vertical-align: top;"> <input type="checkbox"/> If this box is checked, your classification has changed from last year's assessment.             The classification(s) of your property affect the rate at which your value is taxed.             New Improvements Included in 2016 Estimated Market Value: \$         </td> </tr> <tr> <td style="text-align: left;">9,100</td> <td style="text-align: left;">9,100</td> <td></td> </tr> </tbody> </table>	Taxes Payable in 2016 (2015 Assessment)	Taxes Payable in 2017 (2016 Assessment)		Ag Non-Hstd	Ag Non-Hstd	<input type="checkbox"/> If this box is checked, your classification has changed from last year's assessment.  The classification(s) of your property affect the rate at which your value is taxed.  New Improvements Included in 2016 Estimated Market Value: \$	9,100	9,100	
Taxes Payable in 2016 (2015 Assessment)	Taxes Payable in 2017 (2016 Assessment)									
Ag Non-Hstd	Ag Non-Hstd	<input type="checkbox"/> If this box is checked, your classification has changed from last year's assessment.  The classification(s) of your property affect the rate at which your value is taxed.  New Improvements Included in 2016 Estimated Market Value: \$								
9,100	9,100									
<p><b>HOW TO RESPOND:</b> If you believe your valuation and property class are correct, it is not necessary to contact your assessor or attend any listed meeting. If the property information is not correct, you disagree with the values or you have other questions about this notice, please contact your assessor first to discuss any questions or concerns. Often your issues can be resolved at this level. If your questions or concerns are not resolved, more formal appeal options are available. Please read the back of this notice for important information about the formal appeal process.</p>										
<p style="text-align: center;"><b>Local Board of Appeal and Equalization/Open Book Meeting</b></p> <p>8:00 AM - 4:30 PM          THURSDAY, APRIL 21, 2016          COURTHOUSE - 807 11TH ST N, MHD          TO SCHEDULE AN APPT          CALL 218-299-5017</p>	<p style="text-align: center;"><b>County Board of Appeal and Equalization</b></p> <p>6:30PM          TUESDAY, JUNE 14, 2016          COURTHOUSE - 807 11TH ST N, MHD          TO SCHEDULE AN APPT          CALL 218-299-5017</p>									

Please read the back of this notice for important appeal information

**FM Diversion Authority**  
**Fiscal Accountability Report Design Phase (Fund 790)**  
**As of 3/31/2016**

	2011	2012	2013	2014	2015	2016	Cumulative Totals
<b>Revenues</b>							
City of Fargo	443,138	7,652,681	7,072,961	19,373,131	28,310,373	5,298,776	68,151,059
Cass County	443,138	7,652,681	7,072,961	19,373,131	28,310,373	5,102,726	67,955,010
State Water Commission	-	-	3,782,215	602,918	31,056,740	5,758,980	41,200,853
Other Agencies	98,475	1,700,595	1,571,769	4,305,140	6,291,194	1,117,482	15,084,655
Reimbursements	-	-	-	-	-	16,604	16,604
Lease/Rental Payments	-	-	17,358	154,180	180,341	31,044	382,923
Asset Sales	-	-	-	616,774	315,892	175,190	1,107,856
Miscellaneous	-	-	1,705	626	427	-	2,758
<b>Total Revenues</b>	<b>984,750</b>	<b>17,005,957</b>	<b>19,518,970</b>	<b>44,425,900</b>	<b>94,465,339</b>	<b>17,500,802</b>	<b>193,901,718</b>
<b>Expenditures</b>							
7905 Army Corp Payments	-	-	875,000	1,050,000	2,725,000	2,279,000	6,929,000
7910 WIK - Administration	107,301	331,321	77,614	169,019	282,227	83,170	1,050,651
7915 WIK - Project Design	149,632	5,366,147	3,220,859	9,118,723	4,660,226	671,384	23,186,971
7920 WIK - Project Management	679,037	7,223,650	4,695,477	3,579,339	4,500,955	570,879	21,249,338
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	6,442,945	86,060,199
7931 LERRDS - Minnesota	-	27,996	289,387	13,068	32,452	272,054	634,956
7940 WIK Mitigation - North Dakota	-	-	-	587,180	-	-	587,180
7941 WIK Mitigation - Minnesota	-	-	-	-	-	-	-
7950 Construction - North Dakota	-	-	-	1,738,638	19,269,055	6,078,969	27,086,661
7951 Construction - Minnesota	-	-	-	-	-	-	-
7952 Construction - O/H/B	-	-	-	11,282,504	5,044,001	492,884	16,819,390
7955 Construction Management	-	-	-	556,209	2,867,422	291,323	3,714,954
7990 Project Financing	-	50,000	70,000	216,376	566,600	538,159	1,441,135
7995 Project Eligible - Off Formula Costs	-	-	-	-	-	-	-
7999 Non Federal Participating Costs	116	-	-	-	-	-	116
0000 Advance to City of Oxbow	-	-	7,527,231	630	-	-	7,527,861
<b>Total Expenditures</b>	<b>984,750</b>	<b>17,005,957</b>	<b>19,518,970</b>	<b>45,325,044</b>	<b>95,896,147</b>	<b>17,720,766</b>	<b>196,451,635</b>

FM Diversion Authority  
 FY 2016 Summary Budget Report ( In Thousands)  
 As of March 31, 2016

	FY 2016 Approved Budget	Current Month	Fiscal Year To Date	% Expended	Outstanding Encumbrances	Remaining Budget Balance
<b>Revenue Sources</b>						
City of Fargo	39,375	1,712	5,299			34,076
Cass County	39,375	1,516	5,103			34,272
State of ND - 50% Match	40,100	576	3,138			36,962
State of ND - 100% Match	109,900	446	2,621			107,279
State of Minnesota	-	-	-			-
Other Agencies	8,750	333	1,117			7,633
Financing Proceeds	-	-	-			-
Reimbursements	-	17	17			(17)
Sale of Assets	-	3	175			(175)
Property Income	-	-	31			(31)
Miscellaneous	-	-	-			-
<b>Total Revenue Sources</b>	<b>237,500</b>	<b>4,602</b>	<b>17,501</b>			<b>219,999</b>
<b>Funds Appropriated</b>						
Army Corp Local Share	-	879	2,279		-	(2,279)
Management Oversight	11,340	61	945	8%	11,149	(754)
Technical Activities	7,500	467	672	9%	3,654	3,174
Land Acquisitions	109,900	1,594	6,715	6%	45,862	57,323
Construction	105,000	1,526	6,571	6%	31,882	66,547
Mitigation	2,200	-	-		366	1,834
Other Costs	1,560	164	538	34%	3,327	(2,305)
<b>Total Appropriations</b>	<b>237,500</b>	<b>4,692</b>	<b>17,720</b>	<b>7%</b>	<b>96,240</b>	<b>123,540</b>



**FM Diversion Authority  
Summary of Cash Disbursements  
March 2016**

Account Number	Check Date	Check Number	Vendor Name	Transaction Amount	Description 1	Project Number	Project Description
790-7905-429.33-42	3/16/2016	JB03160008	ARMY CORP	879,000.00	ARMY CORP LOCAL SHARE	V01101	ARMY CORP LOCAL SHARE PMT
<b>Total WIK - General &amp; Admin. - Army Corp Local Share</b>				<b>879,000.00</b>			
790-7910-429.33-20	4/6/2016	JB03160025	CITY OF FARGO	830.00	CHARGE COF TIME - 3/16	V00102	General & Admin. WIK
<b>Total WIK - General &amp; Admin. - Accounting Services</b>				<b>830.00</b>			
790-7910-429.33-25	3/30/2016	266812	OXBOW, CITY OF	1,550.00	OHNSTAD TWICHELL	V02407	OXBOW MOU-LEGAL SERVICES
	3/30/2016	266812	OXBOW, CITY OF	336.00	OHNSTAD TWICHELL	V02407	OXBOW MOU-LEGAL SERVICES
	3/30/2016	266812	OXBOW, CITY OF	2,352.00	OHNSTAD TWICHELL	V02407	OXBOW MOU-LEGAL SERVICES
	3/30/2016	266812	OXBOW, CITY OF	147.00	OHNSTAD TWICHELL	V02407	OXBOW MOU-LEGAL SERVICES
	3/30/2016	266812	OXBOW, CITY OF	600.00	OHNSTAD TWICHELL	V02407	OXBOW MOU-LEGAL SERVICES
	3/30/2016	266812	OXBOW, CITY OF	1,475.00	OHNSTAD TWICHELL	V02407	OXBOW MOU-LEGAL SERVICES
	3/30/2016	266812	OXBOW, CITY OF	3,762.68	TURMAN & LANG	V02407	OXBOW MOU-LEGAL SERVICES
<b>Total WIK - General &amp; Admin. - Legal Services</b>				<b>10,222.68</b>			
790-7910-429.38-68	4/3/2016	548	P CARD BMO	3,500.00	FREDRIKSON AND BYRON P	V00102	General & Admin. WIK
	3/5/2016	542	P CARD BMO	3,500.00	FREDRIKSON AND BYRON P	V00102	General & Admin. WIK
<b>Total WIK - General &amp; Admin. - Lobbyist</b>				<b>7,000.00</b>			
790-7910-429.52-30	3/16/2016	266533	WARNER & CO	4,975.00	LIABILITY INS	V00102	General & Admin. WIK
<b>Total WIK - General &amp; Admin. - General Liability</b>				<b>4,975.00</b>			
790-7910-429.59-10	3/23/2016	266672	ND WATER USERS ASSOCIATN	5,000.00	DUES-FM AREA DIVERSION	V00102	General & Admin. WIK
<b>Total WIK - General &amp; Admin. - Due &amp; Membership Instate</b>				<b>5,000.00</b>			
790-7915-429.33-05	3/30/2016	266812	OXBOW, CITY OF	5,934.70	MOORE ENGINEERING, INC	V02402	OXBOW MOU-PRELIM ENGINRNG
	3/30/2016	266812	OXBOW, CITY OF	342.50	MOORE ENGINEERING, INC	V02420	OXBOW MOU-MOORE ENG TO #6
	3/9/2016	266308	MINNESOTA DNR	137,464.92	MINNESOTA EIS STUDY	V00701	MN DNR EIS
	3/16/2016	266446	HOUSTON-MOORE GROUP LLC	3,592.00	HYDROLOGY/HYDRALIC REMODE	V01609	HYDROLOGY/HYDRAULIC MODEL
	3/30/2016	266761	HOUSTON-MOORE GROUP LLC	3,611.69	RECREATION & USE PLAN/DES	V01607	RECREATION/USE MASTER PLN
	3/30/2016	266761	HOUSTON-MOORE GROUP LLC	14,229.60	TASK 8 WORK IN KIND ITEMS	V01608	WORK-IN-KIND (WIK)
	3/30/2016	266761	HOUSTON-MOORE GROUP LLC	120.75	TASK 8 WORK IN KIND	V01608	WORK-IN-KIND (WIK)
	3/30/2016	266761	HOUSTON-MOORE GROUP LLC	22,452.50	HYDROLOGICAL MODELING	V01609	HYDROLOGY/HYDRAULIC MODEL
	3/30/2016	266761	HOUSTON-MOORE GROUP LLC	197,665.72	LEVEE DESIGN & SUPPORT	V01613	LEVEE DESIGN & SUPPORT
	3/30/2016	266761	HOUSTON-MOORE GROUP LLC	64,919.80	LEVEE DESIGN & SUPPORT	V01613	LEVEE DESIGN & SUPPORT
	3/30/2016	266761	HOUSTON-MOORE GROUP LLC	7,303.00	DRAFT OPERATIONS PLAN	V01615	DRAFT OPERATIONS PLAN
	3/30/2016	266761	HOUSTON-MOORE GROUP LLC	3,155.00	DRAFT OPERATIONS PLAN	V01615	DRAFT OPERATIONS PLAN

**FM Diversion Authority  
Summary of Cash Disbursements  
March 2016**

Account Number	Check Date	Check Number	Vendor Name	Transaction Amount	Description 1	Project Number	Project Description
	3/30/2016	266761	HOUSTON-MOORE GROUP LLC	5,951.00	PERMIT SUBMITTAL	V01616	PERMIT SUBMITTAL PREP
<b>Total WIK - Project Design - Engineering Services</b>				<b>466,743.18</b>			
790-7920-429.33-05	3/30/2016	266761	HOUSTON-MOORE GROUP LLC	25,740.98	PROJECT MANAGEMENT	V01601	HMG - PROJECT MANAGEMENT
<b>Total WIK Construction Mgmt. - Engineering Services</b>				<b>25,740.98</b>			
790-7920-429.33-79	3/30/2016	266812	OXBOW, CITY OF	7,605.60	MOORE ENGINEERING, INC	V02421	OXBOW MOU-MOORE PROJ MGMT
<b>Total WIK Construction Mgmt. - Construction Management</b>				<b>7,605.60</b>			
790-7930-429.33-05	3/23/2016	266600	CASS COUNTY JOINT WATER RESOURCE DI	1,192.50	ULTEIG ENGINEERING INC	V01203	Cass Joint Water OHB
	3/30/2016	266761	HOUSTON-MOORE GROUP LLC	235.50	LAND MANAGEMENT SERVICES	V01606	LAND MANAGEMENT SERVICES
	3/30/2016	266761	HOUSTON-MOORE GROUP LLC	6,132.50	REACH 6 & CR-20 BRIDGE	V01611	REACH 6 & CR20 BRIDGE
	3/30/2016	266761	HOUSTON-MOORE GROUP LLC	127,145.20	DESIGN OF WORK PKG 28	V01618	WP28 - CR-16/CR-17 BRIDGE
	3/30/2016	266761	HOUSTON-MOORE GROUP LLC	44,818.00	UTILITY DESIGN	V01610	UTILITIES DESIGN
	3/30/2016	266761	HOUSTON-MOORE GROUP LLC	8,159.95	UTILITY DESIGN	V01610	UTILITIES DESIGN
		0	HOUSTON-MOORE GROUP LLC	88,777.75	CR 16/17 BRIDGE CHANNEL	V01618	WP28 - CR-16/CR-17 BRIDGE
<b>Total LERRDS - North Dakota - Engineering Services</b>				<b>276,461.40</b>			
790-7930-429.33-25	4/4/2016	545	P CARD BMO	77,210.46	DORSEY WHITNEY LLP	V00101	Dorsey Whitney Legal
	4/3/2016	548	P CARD BMO	73,223.58	DORSEY WHITNEY LLP	V00101	Dorsey Whitney Legal
	3/23/2016	266600	CASS COUNTY JOINT WATER RESOURCE DI	2,356.00	OHNSTAD TWICHELL, P.C.	V01201	Cass Joint Water ROE
	3/23/2016	266600	CASS COUNTY JOINT WATER RESOURCE DI	1,558.32	OHNSTAD TWICHELL, P.C.	V01201	Cass Joint Water ROE
	3/23/2016	266600	CASS COUNTY JOINT WATER RESOURCE DI	270.00	OHNSTAD TWICHELL, P.C.	V01202	Cass Joint Water DPAC
	3/23/2016	266600	CASS COUNTY JOINT WATER RESOURCE DI	25,698.85	OHNSTAD TWICHELL, P.C.	V01201	Cass Joint Water ROE
	3/23/2016	266600	CASS COUNTY JOINT WATER RESOURCE DI	20,290.92	OHNSTAD TWICHELL, P.C.	V01203	Cass Joint Water OHB
	3/23/2016	266600	CASS COUNTY JOINT WATER RESOURCE DI	34.00	OHNSTAD TWICHELL, P.C.	V01202	Cass Joint Water DPAC
	3/23/2016	266600	CASS COUNTY JOINT WATER RESOURCE DI	5,619.00	OHNSTAD TWICHELL, P.C.	V01201	Cass Joint Water ROE
	3/23/2016	266600	CASS COUNTY JOINT WATER RESOURCE DI	231.00	LARKIN HOFFMAN ATTORNEYS	V01201	Cass Joint Water ROE
<b>Total LERRDS - North Dakota - Legal Services</b>				<b>206,492.13</b>			
790-7930-429.38-61	3/23/2016	266600	CASS COUNTY JOINT WATER RESOURCE DI	3,808.75	SENTRY SECURITY INC	V01703	ND LAND PURCH - IN TOWN
	3/23/2016	266600	CASS COUNTY JOINT WATER RESOURCE DI	1,341.36	SENTRY SECURITY INC	V01203	Cass Joint Water OHB
	3/23/2016	266600	CASS COUNTY JOINT WATER RESOURCE DI	3,161.25	SENTRY SECURITY INC	V01703	ND LAND PURCH - IN TOWN

**FM Diversion Authority  
Summary of Cash Disbursements  
March 2016**

Account Number	Check Date	Check Number	Vendor Name	Transaction Amount	Description 1	Project Number	Project Description
	3/23/2016	266600	CASS COUNTY JOINT WATER RESOURCE DI	1,399.68	SENTRY SECURITY INC	V01203	Cass Joint Water OHB
<b>Total LERRDS - North Dakota - Security Services</b>				<b>9,711.04</b>			
790-7930-429.54-10	3/30/2016	266812	OXBOW, CITY OF	969.66	FORUM COMMUNICATIONS	V02418	OXBOW MOU - MISC SERVICES
<b>Total LERRDS - North Dakota - Legal Publications</b>				<b>969.66</b>			
790-7930-429.62-51	3/23/2016	266600	CASS COUNTY JOINT WATER RESOURCE DI	95.28	CASS COUNTY ELECTRIC COOP	V01701	ND LAND PURCH-OUT OF TOWN
	3/23/2016	266600	CASS COUNTY JOINT WATER RESOURCE DI	412.70	CASS COUNTY ELECTRIC COOP	V01701	ND LAND PURCH-OUT OF TOWN
	3/23/2016	266600	CASS COUNTY JOINT WATER RESOURCE DI	168.74	CASS COUNTY ELECTRIC COOP	V01701	ND LAND PURCH-OUT OF TOWN
	3/23/2016	266600	CASS COUNTY JOINT WATER RESOURCE DI	1,410.89	CASS COUNTY ELECTRIC COOP	V01701	ND LAND PURCH-OUT OF TOWN
	3/23/2016	266600	CASS COUNTY JOINT WATER RESOURCE DI	260.82	CASS COUNTY ELECTRIC COOP	V01701	ND LAND PURCH-OUT OF TOWN
	3/23/2016	266600	CASS COUNTY JOINT WATER RESOURCE DI	363.68	CASS COUNTY ELECTRIC COOP	V01701	ND LAND PURCH-OUT OF TOWN
	3/23/2016	266600	CASS COUNTY JOINT WATER RESOURCE DI	56.07	CASS COUNTY ELECTRIC COOP	V01701	ND LAND PURCH-OUT OF TOWN
	3/23/2016	266600	CASS COUNTY JOINT WATER RESOURCE DI	449.86	CASS COUNTY ELECTRIC COOP	V01701	ND LAND PURCH-OUT OF TOWN
	3/23/2016	266600	CASS COUNTY JOINT WATER RESOURCE DI	487.19	CASS COUNTY ELECTRIC COOP	V01701	ND LAND PURCH-OUT OF TOWN
	3/23/2016	266600	CASS COUNTY JOINT WATER RESOURCE DI	295.89	CASS COUNTY ELECTRIC COOP	V01701	ND LAND PURCH-OUT OF TOWN
	3/23/2016	266600	CASS COUNTY JOINT WATER RESOURCE DI	196.38	CASS COUNTY ELECTRIC COOP	V01701	ND LAND PURCH-OUT OF TOWN
	3/23/2016	266600	CASS COUNTY JOINT WATER RESOURCE DI	1,295.79	XCEL ENERGY	V01703	ND LAND PURCH - IN TOWN
<b>Total LERRDS - North Dakota - Electricity</b>				<b>5,493.29</b>			
790-7930-429.67-11	3/23/2016	266600	CASS COUNTY JOINT WATER RESOURCE DI	2,394.00	C CWIAK & N ALENJERY	V01703	ND LAND PURCH - IN TOWN
	3/23/2016	266600	CASS COUNTY JOINT WATER RESOURCE DI	11,311.86	CURT CHRISTENSEN	V01703	ND LAND PURCH - IN TOWN
	3/23/2016	266600	CASS COUNTY JOINT WATER RESOURCE DI	2,512.50	JORDAN & DANA HELLER	V01703	ND LAND PURCH - IN TOWN
	3/23/2016	266600	CASS COUNTY JOINT WATER RESOURCE DI	303.00	BRYAN & THERESA HEST	V01703	ND LAND PURCH - IN TOWN
	3/23/2016	266600	CASS COUNTY JOINT WATER RESOURCE DI	8,456.41	REBECCA MURPHY	V02411	OXBOW MOU-RESIDENT RLCTN
	3/23/2016	266600	CASS COUNTY JOINT WATER RESOURCE DI	151,392.20	JOSEPH & JOLENE SAUVAGEAU	V02411	OXBOW MOU-RESIDENT RLCTN
	3/23/2016	266600	CASS COUNTY JOINT WATER RESOURCE DI	391.00	RANDAL & DEBRA SCHNEIBEL	V02411	OXBOW MOU-RESIDENT RLCTN
	3/23/2016	266600	CASS COUNTY JOINT WATER RESOURCE DI	2,620.00	RANDAL & DEBRA SCHNEIBEL	V02411	OXBOW MOU-RESIDENT RLCTN
<b>Total LERRDS - North Dakota - Residential Buildings</b>				<b>179,380.97</b>			
790-7930-429.67-12	3/23/2016	266600	CASS COUNTY JOINT WATER RESOURCE DI	46,437.03	OXBOW GULF & COUNTRY CLUB	V01204	Cass Joint Water OCC
<b>Total LERRDS - North Dakota - Commercial Buildings</b>				<b>46,437.03</b>			
790-7930-429.71-30	3/23/2016	266600	CASS COUNTY JOINT WATER RESOURCE DI	346,500.00	JUAN & ANNELE MONDRAGON	V01703	ND LAND PURCH - IN TOWN
	3/23/2016	266600	CASS COUNTY JOINT WATER RESOURCE DI	3,500.00	JUAN & ANNELE MONDRAGON	V01703	ND LAND PURCH - IN TOWN
	3/23/2016	266600	CASS COUNTY JOINT WATER RESOURCE DI	10,216.00	BEVERLY PEARSON	V01703	ND LAND PURCH - IN TOWN

**FM Diversion Authority  
Summary of Cash Disbursements  
March 2016**

Account Number	Check Date	Check Number	Vendor Name	Transaction Amount	Description 1	Project Number	Project Description
	3/23/2016	266600	CASS COUNTY JOINT WATER RESOURCE DI	196,842.17	JOSEPH & JOLENE SAUVAGEAU	V01701	ND LAND PURCH-OUT OF TOWN
	3/23/2016	266600	CASS COUNTY JOINT WATER RESOURCE DI	111,000.00	JOEL & CHERYL WOLD	V01701	ND LAND PURCH-OUT OF TOWN
	3/23/2016	266600	CASS COUNTY JOINT WATER RESOURCE DI	76,426.00	JOEL & CHERYL WOLD	V01701	ND LAND PURCH-OUT OF TOWN
	3/15/2016	0009764	CASS COUNTY JOINT WATER RESOURCE DI	(25.00)	TITLE COMPANY REFUND	V01703	ND LAND PURCH - IN TOWN
<b>Total LERRDS - North Dakota - Land Purchases</b>				<b>744,459.17</b>			
790-7930-429.73-20	3/23/2016	266600	CASS COUNTY JOINT WATER RESOURCE DI	45,360.00	AMERICAN ENTERPRISES INC	V01701	ND LAND PURCH-OUT OF TOWN
<b>Total LERRDS - North Dakota - Site Improvements</b>				<b>45,360.00</b>			
790-7931-429.67-11	3/23/2016	266600	CASS COUNTY JOINT WATER RESOURCE DI	73,679.00	ROBERT & JUDITH ANDERSON	V02302	MN LAND PURCHASE-HARDSHIP
	3/23/2016	266600	CASS COUNTY JOINT WATER RESOURCE DI	5,775.00	ROBERT & JUDITH ANDERSON	V02302	MN LAND PURCHASE-HARDSHIP
<b>Total LERRDS - Minnesota - Residential Buildings</b>				<b>79,454.00</b>			
790-7950-429.38-99	3/9/2016	266200	BNSF RAILWAY CO	775.00	WP42F.1N WATERMAIN CROSSI	V02819	WP42F.1N
	3/9/2016	266200	BNSF RAILWAY CO	775.00	WP42F.1N TEMPORARY OCCUPA	V02819	WP42F.1N
	3/9/2016	266200	BNSF RAILWAY CO	775.00	WP42F.1N STORM SEWER CROS	V02819	WP42F.1N
	3/23/2016	266593	BNSF RAILWAY CO	775.00	WP42F.1N ROADWAY RESURFAC	V02819	WP42F.1N
<b>Total ND Construction - Other Services</b>				<b>3,100.00</b>			
790-7950-429.73-20	3/30/2016	266786	LANDWEHR CONSTRUCTION INC	446,500.00	PARK EAST APT DEMO	V02813	PARK EAST DEMOLITION
<b>Total ND Construction - Site Improvements</b>				<b>446,500.00</b>			
790-7950-429.73-52	3/30/2016	266762	INDUSTRIAL BUILDERS INC	648,076.17	2 ST N PUMP STATION	V02801	2ND ST NORTH PUMP STATION
	3/30/2016	266762	INDUSTRIAL BUILDERS INC	48,206.80	2 ST N FLOODWALL	V02812	2ND ST NORTH FLOODWALL
	3/30/2016	266763	INDUSTRIAL CONTRACT SERVICES INC	321,383.70	PUMP STATION & FLOODWALL	V02805	PUMP STATION & FLOODWALL
<b>Total ND Construction - Flood Control</b>				<b>1,017,666.67</b>			
790-7950-429.73-70	3/30/2016	266738	CONSOLIDATED COMMUNICATIONS	20,808.20	WP-42 UTILITY RELOCATION	V02803	EVENTIS WP42 UTILITY RLCT
	3/30/2016	266738	CONSOLIDATED COMMUNICATIONS	16,488.38	WP-42A.1/A.3 SOUTH ROUTE	V02803	EVENTIS WP42 UTILITY RLCT
<b>Total ND Construction - Utilities</b>				<b>37,296.58</b>			
790-7952-429.33-05	3/23/2016	266600	CASS COUNTY JOINT WATER RESOURCE DI	21,866.27	OXBOW GOLF & COUNTRY CLUB	V01204	Cass Joint Water OCC
<b>Total O/H/B Construction - Engineering Services</b>				<b>21,866.27</b>			

**FM Diversion Authority  
Summary of Cash Disbursements  
March 2016**

Account Number	Check Date	Check Number	Vendor Name	Transaction Amount	Description 1	Project Number	Project Description
790-7990-429.33-05	3/30/2016	266761	HOUSTON-MOORE GROUP LLC	21,058.50	DOCUMENT PREPERATION SUPP	V01619	PPP DOCUMENT PREP SUPPRT
		0	HOUSTON-MOORE GROUP LLC	9,262.75	DOCUMENT PREPERATION SUPP	V01619	PPP DOCUMENT PREP SUPPRT
<b>Total Project Financing - Engineering Services</b>				<b>30,321.25</b>			
790-7990-429.33-25	3/23/2016	266575	ASHURST LLP	61,290.20	DIVERSION LEGAL SERVICES	V03001	P3 LEGAL COUNSEL-ASHURST
	3/5/2016	542	P CARD BMO	38,274.32	OHNSTAD TWICHELL PC	V00102	General & Admin. WIK
<b>Total Project Financing - Legal Services</b>				<b>99,564.52</b>			
790-7990-520.80-20	3/2/2016	JB03160001	US BANK	34,505.21	US BANK INTEREST PAYMENT	V02902	\$50M FARGO USBANK ADVANCE
<b>Total Project Financing - Interest</b>				<b>34,505.21</b>			
<b>Total Disbursed for Period</b>				<b>4,692,156.63</b>			

**FM Diversion Authority  
Cumulative Vendor Payments Since Inception  
As of March 31, 2016**

Vendor Name	Approved Contract/Invoice Amount	Liquidated	Outstanding Encumbrance	Purpose
CASS COUNTY JOINT WATER RESOUR	\$ 133,702,953.28	\$ 83,877,720.45	\$ 49,825,232.83	Land Purchases, O/H/B Ring Levee, DPAC, & ROE
HOUSTON-MOORE GROUP LLC	31,947,294.10	23,939,845.27	8,007,448.83	Engineering Services
INDUSTRIAL BUILDERS INC	25,792,957.86	10,419,381.95	15,373,575.91	2nd St North Pump Station Project and 2nd Street Floodwall, South of Pump Station
CH2M HILL ENGINEERS INC	24,965,819.01	17,815,819.01	7,150,000.00	Project Management
INDUSTRIAL CONTRACT SERVICES I	17,364,063.63	13,922,332.19	3,441,731.44	4th St Pump Station and 2nd Street Floodwall
OXBOW, CITY OF	15,580,206.40	14,316,243.93	1,263,962.47	City of Oxbow - MOU
ARMY CORP OF ENGINEERS	6,929,000.00	6,929,000.00	-	Local Share
COMMERCIAL TITLE LLC	3,869,541.00	3,869,541.00	-	Oxbow MOU - Advance for Land Purchase
TITLE COMPANY	3,641,500.00	3,641,500.00	-	Oxbow MOU - Advance for Land Purchase
DORSEY & WHITNEY LLP	2,874,223.82	2,874,223.82	-	Legal Services
CENTURYLINK COMMUNICATIONS	2,586,742.00	-	2,586,742.00	Utility Relocation
MINNESOTA DNR	2,325,472.35	2,325,472.35	-	EIS Scoping
ASHURST LLP	1,979,133.70	156,746.35	1,822,387.35	PPP Legal Counsel
URS CORPORATION	1,922,118.42	1,572,958.18	349,160.24	Engineering Services
LANDWEHR CONSTRUCTION INC	1,758,758.00	1,057,500.00	701,258.00	In-Town Demolition Contracts
KENNELLY & OKEEFFE	1,729,310.56	1,729,310.56	-	Home Buyouts
CONSOLIDATED COMMUNICATIONS	1,706,312.00	777,442.16	928,869.84	Utility Relocation
JP MORGAN CHASE-LOCKBOX PROCES	1,527,000.00	241,521.09	1,285,478.91	Financial Advisor
REINER CONTRACTING INC	1,515,798.64	-	1,515,798.64	EI Zagal Flood Risk Management
XCEL ENERGY	874,255.08	174,255.08	700,000.00	Utility Relocation
MOORE ENGINEERING INC	662,468.17	662,468.17	-	Engineering Services
US BANK	626,849.03	626,849.03	-	Loan Advance Debt Service Payments
DUCKS UNLIMITED	587,180.00	587,180.00	-	Wetland Mitigation Credits
HOUSTON ENGINEERING INC	576,669.57	576,669.57	-	Engineering Services
TERRACON CONSULTING ENGINEERS	525,000.00	263,738.61	261,261.39	Materials Testing
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
ERIK R JOHNSON & ASSOCIATES	448,699.61	439,783.12	8,916.49	Legal Services
AT & T	441,330.44	278,964.28	162,366.16	Utility Relocation
CITY OF FARGO	334,288.71	334,288.71	-	Digital Imagery Project, Utility Relocation & Accounting Svcs
702 COMMUNICATIONS	275,862.91	266,892.07	8,970.84	Utility Relocation
CASS COUNTY TREASURER	249,171.51	249,171.51	-	Property Tax
BUFFALO-RED RIVER WATERSHED DI	220,768.00	-	220,768.00	Retention Projects - Engineering Services
ROBERT TRENT JONES	200,000.00	200,000.00	-	Oxbow MOU - Golf Course Consulting Agreement
CABLE ONE (FARGO)	148,511.37	-	148,511.37	Utility Relocation
PFM PUBLIC FINANCIAL MANAGEMEN	146,460.00	146,460.00	-	Financial Advisor
BOIS DE SIOUX WATERSHED DISTRI	145,380.00	-	145,380.00	Retention Projects - Engineering Services
NDSU BUSINESS OFFICE-BOX 6050	135,167.00	135,167.00	-	Ag Risk Study Services
OHNSTAD TWICHELL PC	124,117.43	124,117.43	-	ROE and Bonding Legal Fees
ENVENTIS	115,685.62	115,685.62	-	Utility Relocation

**FM Diversion Authority  
Cumulative Vendor Payments Since Inception  
As of March 31, 2016**

Vendor Name	Approved Contract/Invoice Amount	Liquidated	Outstanding Encumbrance	Purpose
BEAVER CREEK ARCHAEOLOGY	111,000.00	-	111,000.00	Engineering Services
UNITED STATES GEOLOGICAL SURVEY	104,600.00	104,600.00	-	Water Level Discharge Collection
PROSOURCE TECHNOLOGIES, INC	100,000.00	8,324.94	91,675.06	Engineering Services
ULTEIG ENGINEERS INC	100,000.00	-	100,000.00	Engineering Services
BRAUN INTERTEC CORP	90,210.00	77,629.00	12,581.00	Quality Testing
EL ZAGAL TEMPLE HOLDING CO	68,040.72	68,040.72	-	Easement Purchase for El Zagal Levee
GRAY PANNELL & WOODWARD LLP	66,300.68	66,300.68	-	Legal Services
FREDRIKSON & BYRON, PA	63,000.00	52,500.00	10,500.00	Lobbying Services
NIXON PEABODY LLC	60,000.00	60,000.00	-	Legal Services
IN SITU ENGINEERING	54,800.00	47,973.00	6,827.00	Quality Testing
ADVANCED ENGINEERING INC	50,000.00	50,000.00	-	Public Outreach
US GEOLOGICAL SURVEY	46,920.00	46,920.00	-	Stage Gage Installation
GEEKON INC	33,815.36	33,815.36	-	Vibrating Wire Piezometer Equipment
CLAY COUNTY AUDITOR	33,796.71	33,796.71	-	Property Tax, Home Buyout Demo
COLDWELL BANKER	33,066.02	33,066.02	-	Property Management Services
WARNER & CO	24,875.00	24,875.00	-	General Liability Insurance
XCEL ENERGY-FARGO	16,275.85	16,275.85	-	Utility Relocation
PRIMORIS AEVENIA INC	16,230.00	16,230.00	-	Utility Relocation
INNOVATIVE ABSTRACT & TITLE CO	15,921.53	15,921.53	-	Oxbow MOU - Advance for Land Purchase
MOORHEAD, CITY OF	15,062.90	15,062.90	-	ROE Legal Fees
BRIGGS & MORGAN PA	12,727.56	12,727.56	-	Legal Services
ND WATER USERS ASSOCIATN	10,000.00	10,000.00	-	Membership Dues
BNSF RAILWAY CO	3,700.00	3,700.00	-	Permits for In-Town Levee Projects
ONE	3,575.00	3,575.00	-	Utility Relocation
MCKINZIE METRO APPRAISAL	3,200.00	3,200.00	-	Appraisal Services
FORUM COMMUNICATIONS (LEGALS)	2,224.20	2,224.20	-	Advertising Services
DAWSON INSURANCE AGENCY	1,867.81	1,867.81	-	Property Insurance - Home Buyouts
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
RED RIVER TITLE SERVICES INC	1,305.00	1,305.00	-	Abstract Updates
HUBER, STEVE	1,056.43	1,056.43	-	Home Buyouts
TRIO ENVIRONMENTAL CONSULTING	747.60	747.60	-	Asbestos and LBP Testing - Home Buyouts
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
KOCHMANN, CARTER	315.00	315.00	-	Lawn Mowing Services
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



**FM Diversion Authority  
 Cumulative Vendor Payments Since Inception  
 As of March 31, 2016**

Vendor Name	Approved Contract/Invoice Amount	Liquidated	Outstanding Encumbrance	Purpose
GOOGLE LOVEINTHEOVEN	116.00	116.00	-	Meeting Incidentals
FEDERAL EXPRESS CORPORATION	71.89	71.89	-	Postage
CASS COUNTY RECORDER	68.00	68.00	-	Oxbow MOU - Advance for Land Purchase
<b>Grand Total</b>	<b>\$ 292,692,039.64</b>	<b>\$ 196,451,635.87</b>	<b>\$ 96,240,403.77</b>	

**FM Diversion Authority  
In-Town Levee Work  
as of March 31, 2016**

<b>Vcode #</b>	<b>Vendor Name</b>	<b>Descriptions</b>	<b>Contract Amount</b>	<b>Amount Paid</b>
V02801	Industrial Builders	2nd Street North Pump Station - Work Package 42.A2	\$ 8,674,859.68	\$ 7,986,892.32
V02802	Terracon Consulting	WP-42 (In Town Levees) Materials Testing	525,000.00	263,738.61
V02803	Consolidated Communications	2nd Street Utility Relocation	1,821,997.62	893,127.78
V02804	702 Communications	2nd Street Utility Relocation	275,862.91	266,892.07
V02805	ICS	4th St Pump Station & Gatewell and 2nd St Floodwall S - WP-42A.1/A.3	17,364,663.63	13,922,932.19
V02806	HMG	Services During Construction - Work Package 42	3,848,000.00	1,193,509.42
V02807	CCJWRD	In-Town Levee Work	2,508,691.64	2,508,691.64
V02808	City of Fargo	Relocation of fiber optic along 2nd Street North	38,002.05	38,002.05
V02809	AT & T	2nd Street Utility Relocation	603,696.60	278,964.28
V02810	Cable One	2nd Street Utility Relocation	148,511.37	-
V02811	Xcel Energy	2nd Street & 4th Street Utility Relocations	890,530.93	190,530.93
V02812	Industrial Builders	2nd Street North Floodwall, South of Pump Station - WP-42F.1S	16,458,188.18	2,432,489.63
V02813	Landwehr Construction	Park East Apartments Demolition	1,089,888.00	1,057,500.00
V02814	Primoris Aevenia	2nd Street Utility Relocation	16,230.00	16,230.00
V02815	Centurylink Communications	2nd Street Utility Relocation	2,586,742.00	-
V02816	Landwehr Construction	WP-42C.1 In-Town Levees 2nd Street/Downtown Area Demo	668,870.00	-
V02817	Reiner Contracting, Inc	WP-42H.2 El Zagal Area Flood Risk Management	1,515,798.64	-
V02818	Industrial Builders	WP-42I.1 Mickelson Levee Extension	659,910.00	-
V02819	TBD	WP42F.1N	3,100.00	3,100.00
V01703	Various	In-Town Property Purchases	33,068,956.15	20,742,828.70
			<b>\$ 92,767,499.40</b>	<b>\$ 51,795,429.62</b>

**FM Diversion Authority  
Lands Expense - Life To Date  
As of March 31, 2016**

Property Address	Purchase Date	Purchase Price	Replacement Lot	Down Payment	Earnest Deposit	Tax Payment	Relocation Assistance	Property Management Expense	Property Management Income	Sale Proceeds	Total
<b>Home Buyouts - Fargo</b>											
1322 Elm St N, Fargo ND	11/19/2014	347,270.27	-	-	-	2,981.20	47,168.14	2,557.54	-	-	399,977.15
1341 N Oak St, Fargo ND	1/29/2015	309,888.24	-	-	-	3,153.40	78,889.24	64.79	-	-	391,995.67
1326 Elm St N, Fargo ND	12/23/2014	230,196.41	-	-	-	-	8,001.02	227.01	-	-	238,424.44
1330 Elm St N, Fargo ND	2/12/2015	229,982.44	-	-	-	651.52	62,362.63	530.81	-	-	293,527.40
18 North Terrace N, Fargo ND	4/2/2015	129,698.25	-	-	-	829.15	44,688.72	273.83	-	-	175,489.95
Park East Apartments - 1 2nd St S Fargo, ND	6/23/2015	9,002,442.20	-	-	-	94,832.78	1,365,886.39	74,283.50	(2,166.32)	-	10,535,278.55
1318 Elm St N, Fargo ND	5/29/2015	229,012.67	-	-	-	1,289.52	55,452.01	50.00	-	-	285,804.20
724 North River Road, Fargo, ND	6/8/2015	204,457.83	-	-	-	1,547.60	35,615.30	109.76	-	(10,000.00)	231,730.49
1333 Oak Street N, Fargo, ND	6/24/2015	238,513.23	-	-	-	1,627.75	2,700.85	50.00	-	-	242,891.83
26 North Terrace N, Fargo ND	9/11/2015	138,619.58	-	-	-	1,737.30	12,620.00	118.50	-	-	153,095.38
16 North Terrace N, Fargo ND	9/24/2015	227,987.50	-	-	-	2,072.31	96,717.14	93.33	-	-	326,870.28
301 3rd Ave N, Fargo ND	11/2/2015	3,266,079.60	-	-	-	-	3,200,206.04	31,450.55	-	(1,100.00)	6,496,636.19
1314 Elm Street N, Fargo ND	12/18/2015	225,800.09	-	-	-	-	5,025.00	60.48	-	-	230,885.57
24 North Terrace N, Fargo ND	11/25/2015	182,437.38	-	-	-	1,606.21	29,269.60	67.19	-	-	213,380.38
1313 Elm Street N, Fargo ND		350,000.00	-	-	-	-	3,360.00	-	-	-	353,360.00
12 North Terrace N, Fargo ND	2/9/2016	10,191.00	-	-	-	-	-	-	-	-	10,191.00
<b>Home Buyouts - Moorhead</b>											
387 170th Ave SW, Moorhead MN	11/1/2013	281,809.91	-	-	-	1,970.00	-	34,073.72	-	(8,440.00)	309,413.63
16678 3rd St S, Moorhead MN		-	-	-	192,600.00	-	79,454.00	-	-	-	272,054.00
<b>Home Buyouts - Oxbow</b>											
105 Oxbow Drive, Oxbow ND	11/28/2012	216,651.85	-	-	-	4,993.72	-	13,695.77	(18,680.72)	(181,249.54)	35,411.08
744 Riverbend, Oxbow ND	12/3/2012	343,828.30	-	-	-	14,276.50	2,435.00	38,416.48	(37,617.16)	-	361,339.12
121 Oxbow Drive, Oxbow ND	7/31/2013	378,781.20	-	-	-	1,581.52	-	19,519.02	-	(186,918.33)	212,963.41
333 Schnell Drive, Oxbow ND	9/20/2013	104,087.79	-	-	-	4,302.38	-	30,137.65	-	-	138,527.82
346 Schnell Dr, Oxbow ND	2/13/2014	512,970.73	-	-	-	6,638.91	7,200.00	13,712.71	(18,000.00)	-	522,522.35
345 Schnell Dr, Oxbow ND	10/24/2014	478,702.98	-	-	-	6,453.35	6,869.44	28,749.98	-	-	520,775.75
336 Schnell Dr, Oxbow ND	1/29/2015	310,888.51	-	-	-	2,376.26	-	228.39	(2,759.00)	-	310,734.16
5059 Makenzie Circle	5/21/2015	2,698,226.97	-	-	-	5,095.25	10,549.70	5,380.30	-	-	2,719,252.22
748 Riverbend Rd / 755 River Bend Rd	9/1/2015	480,784.30	-	-	-	4,002.89	205,699.82	181.53	-	-	690,668.54
752 Riverbend Rd / 768 River Bend Rd	9/4/2015	469,078.13	-	-	-	3,503.65	507,103.56	810.88	-	-	980,496.22
349 Schnell Dr / 761 River Bend Rd	6/26/2015	306,725.20	-	-	-	2,234.53	309,992.53	729.41	-	-	619,681.67
353 Schnell Dr / 772 River Bend Rd	9/11/2015	494,342.87	-	-	-	2,818.16	312,212.95	1,353.32	-	-	810,727.30
357 Schnell Dr / 760 River Bend Rd	6/18/2015	466,720.80	-	-	-	6,643.74	176,524.79	882.86	-	-	650,772.19
361 Schnell Dr / 764 River Bend Rd	9/2/2015	490,091.32	-	-	-	3,554.24	267,757.65	1,107.18	-	-	762,510.39
SE 1/4-23-137-49 & NW 1/4 SW 1/4 24-137-49 - Heitman	9/30/2015	1,328,151.00	-	-	-	1,710.55	-	36.67	-	-	1,329,898.22
326 Schnell Drive, Oxbow, ND	2/19/2016	326,842.17	-	-	-	-	213,898.09	-	-	-	540,740.26
828 Riverbend Rd, Oxbow ND		-	-	25,000.00	25,000.00	-	-	-	-	-	25,000.00
330 Schnell Dr, Oxbow ND		-	-	150,000.00	150,000.00	-	-	-	-	-	150,000.00
749 Riverbend Rd / 433 Trent Jones Dr	2/1/2016	598,885.43	-	-	-	-	469,875.64	-	-	-	1,068,761.07
334 Schnell Dr / 751 River Bend Rd	1/15/2016	318,879.77	-	-	-	-	286,559.88	95.28	-	-	605,534.93
350 Schnell Dr / 769 River Bend Rd	12/15/2015	491,024.01	-	-	-	-	273,967.35	-	-	-	764,991.36
829 Riverbend Rd / 788 River Bend Rd		-	-	-	-	-	8,000.00	-	-	-	8,000.00
328 Schnell Dr / 347 Trent Jones Dr		-	150,000.00	50,000.00	200,000.00	-	-	-	-	-	200,000.00
338 Schnell Dr / 775 River Bend Rd		-	115,000.00	107,500.00	222,500.00	-	-	-	-	-	222,500.00
813 Riverbend Rd / 449 Trent Jones Dr		-	163,000.00	65,000.00	228,000.00	-	-	-	-	-	228,000.00
341 Schnell Dr / 351 Trent Jones Dr		-	143,000.00	95,500.00	238,500.00	-	-	-	-	-	238,500.00
329 Schnell Dr / 417 Trent Jones Dr		-	130,000.00	50,000.00	180,000.00	-	-	-	-	-	180,000.00
805 Riverbend Rd / 776 River Bend Rd		-	131,000.00	89,855.00	220,855.00	-	-	-	-	-	220,855.00
317 Schnell Dr / 409 Trent Jones Dr		-	136,000.00	86,000.00	222,000.00	-	-	-	-	-	222,000.00
309 Schnell Dr / 261 S Schnell Dr		-	160,000.00	50,000.00	210,000.00	-	-	-	-	-	210,000.00
810 Riverbend Rd / 787 River Bend Rd		-	174,000.00	115,500.00	289,500.00	-	-	-	-	-	289,500.00

**FM Diversion Authority  
Lands Expense - Life To Date  
As of March 31, 2016**

Property Address	Purchase Date	Purchase Price	Replacement Lot	Down Payment	Earnest Deposit	Tax Payment	Relocation Assistance	Property Management Expense	Property Management Income	Sale Proceeds	Total
332 Schnell Dr / 421 Trent Jones Dr		-	133,000.00	25,000.00	158,000.00	-	-	-	-	-	158,000.00
833 Riverbend Rd / 446 Trent Jones Dr		-	149,000.00	120,000.00	269,000.00	-	-	-	-	-	269,000.00
821 Riverbend Rd / 434 Trent Jones Dr		-	108,000.00	77,000.00	185,000.00	-	-	-	-	-	185,000.00
321 Schnell Dr / 410 Trent Jones Dr		-	148,000.00	90,566.00	238,566.00	-	-	-	-	-	238,566.00
337 Schnell Dr / 355 Trent Jones Dr		-	124,000.00	82,021.00	206,021.00	-	-	-	-	-	206,021.00
840 Riverbend Rd / 442 Trent Jones Dr		-	139,000.00	50,000.00	189,000.00	-	-	-	-	-	189,000.00
325 Schnell Dr		-	141,000.00	69,590.00	210,590.00	-	-	-	-	-	210,590.00
816 Riverbend Rd / 429 Trent Jones Dr		-	111,000.00	76,426.00	187,426.00	-	-	-	-	-	187,426.00
852 Riverbend Rd	1/11/2016	1,222,608.19	-	-	-	-	10,891.60	363.68	-	-	1,233,863.47
365 Schnell Dr	1/7/2016	125,077.88	-	-	-	-	-	-	-	-	125,077.88
<b>Home Buyouts - Hickson</b>											
17495 52nd St SE, Hickson, ND	4/28/2015	785,747.66	-	-	-	4,390.23	27,604.74	1,245.35	-	-	818,987.98
<b>Easements - Fargo</b>											
Part of Lot 5 El Zagal Park, Fargo ND	10/9/2014	68,040.72	-	-	-	-	-	-	-	-	68,040.72
<b>Easements - Oxbow</b>											
Oxbow Parcel 57-0000-10356-070 - Pearson	10/13/2014	55,500.00	-	-	-	-	-	-	-	-	55,500.00
<b>Farmland Purchases</b>											
SE 1/4 11-140-50 (Raymond Twp) - Ueland	1/20/2014	959,840.00	-	-	-	-	-	-	(27,892.63)	-	931,947.37
2 Tracts in the E 1/2-2-137-49 - Sorby/Maier	1/24/2014	1,636,230.00	-	-	-	-	-	-	(56,114.10)	-	1,580,115.90
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	-	-	-	-	-	-	(121,611.02)	-	3,337,369.68
11-140-50 NE1/4 (Raymond Twp) - Diekrager	4/15/2014	991,128.19	-	-	-	-	-	-	(32,244.98)	-	958,883.21
NW 1/4 36-141-50 - Monson	5/7/2014	943,560.05	-	-	-	-	-	-	(29,681.57)	-	913,878.48
SW 1/4-11-140-50 - Hoglund	7/21/2014	989,706.03	-	-	-	2,566.59	-	-	(3,725.49)	-	988,547.13
NW 1/4 14-140-50 - Hoglund	10/23/2014	948,782.22	-	-	-	5,327.10	-	-	(22,249.56)	-	931,859.76
SW 1/4 2-140-50 -Rust	10/29/2014	955,901.00	-	-	-	-	-	-	(11,053.17)	-	944,847.83
Fercho Family Farms, Oxbow ND	3/25/2015	464,600.00	-	-	-	-	-	-	-	-	464,600.00
W 1/2 SE 1/4 SW 1/4 & SW 1/4 SW 1/4 2-137-49 - Gordner	5/13/2014	321,386.00	-	-	-	-	-	-	(5,602.20)	-	315,783.80
2-140-50 S 1/2 of NW 1/4 & Lot 4A - Pile	3/4/2015	594,108.00	-	-	-	-	-	-	-	-	594,108.00
W 1/2 NW 1/4 2-141-49 - Heiden	4/24/2015	433,409.00	-	-	-	-	-	-	(6,510.69)	-	426,898.31
(Raymond Twp) - Henke	6/17/2015	1,196,215.00	-	-	-	-	-	-	(12,452.23)	-	1,183,762.77
<b>Land Purchases</b>											
Hayden Heights Land, West Fargo ND	10/12/2012	484,016.00	-	-	-	223,505.56	-	-	-	(730,148.14)	(22,626.58)
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
<b>Total</b>		<b>43,094,786.57</b>	<b>2,355,000.00</b>	<b>1,474,958.00</b>	<b>4,049,558.00</b>	<b>420,273.87</b>	<b>8,224,558.82</b>	<b>300,657.47</b>	<b>(408,360.84)</b>	<b>(1,117,856.01)</b>	<b>54,563,617.88</b>

FM Diversion Authority  
 State Water Commission Funds Reimbursement Worksheet  
 Fargo Flood Control Project Costs

Time Period for This Request: March 1, 2016 - March 31, 2016

Drawdown Request No: 26	
Requested Amount:	<b>\$ 1,021,657</b>
Total Funds Expended This Period:	\$ 1,597,673
Total Funds Requested at 100% Match	445,642
Remaining Funds Requested at 50% Match	1,152,031
SB 2020 Matching Requirements	50%
Total Funds Requested at 50% Match	576,015
<b>Total Funds Requested:</b>	<b>\$ 1,021,657</b>

<b>STATE AID SUMMARY:</b>		
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 to be funded in 2017 Legislative Session	69,000,000	
Appropriations to be funded in 2019 Legislative Session	69,000,000	
Appropriations to be funded in 2021 Legislative Session	68,000,000	
<b>Total State Funds</b>	<b>206,000,000</b>	<b>244,000,000</b>
Less: Payment #1 through #35 - City of Fargo		(55,510,209)
Less: Payment #1 - Cass County		(136,039)
Less: Payment #1 through #10 - FM Diversion Authority		(8,524,053)
Less: Payment #11 - FM Diversion Authority		(470,398)
Less: Payment #12 - FM Diversion Authority		(1,231,810)
Less: Payment #13 - FM Diversion Authority		(612,361)
Less: Payment #14 - FM Diversion Authority		(1,182,540)
Less: Payment #15 - FM Diversion Authority		(4,501,221)
Less: Payment #16 - FM Diversion Authority		(3,325,169)
Less: Payment #17 - FM Diversion Authority		(2,833,772)
Less: Payment #18 - FM Diversion Authority		(1,528,056)
Less: Payment #19 - FM Diversion Authority		(885,633)
Less: Payment #20 - FM Diversion Authority		(3,767,195)
Less: Payment #21 - FM Diversion Authority		(2,580,786)
Less: Payment #22 - FM Diversion Authority		(3,998,879)
Less: Payment #23 - FM Diversion Authority		(1,985,040)
Less: Payment #24 - FM Diversion Authority		(2,752,283)
Less: Payment #25 - FM Diversion Authority		(10,000,000)
Less: Payment #26 - FM Diversion Authority		(1,021,657)
<b>Total Funds Reimbursed</b>		<b>(106,847,102)</b>
<b>Total State Fund Balances Remaining</b>	<b>\$</b>	<b>137,152,898</b>

FM Diversion Authority  
 State Water Commission Funds Reimbursement Worksheet  
 Fargo Flood Control Project Costs

LOCAL MATCHING FUNDS SUMMARY:		
Matching Funds Expended To Date - City of Fargo	\$	47,629,069
Matching Funds Expended To Date - Cass County		291,500
Matching Funds Expended To Date - FM Diversion Authority		9,936,700
<b>Total Matching Funds Expended To Date</b>		<b>57,857,269</b>
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 - FM Diversion Authority		(18,600)
Less: Match Used on Payment #2 - FM Diversion Authority		(66,888)
Less: Match Used on Payment #6 - FM Diversion Authority		(238,241)
Less: Match Used on Payment #8 - FM Diversion Authority		(346,664)
Less: Match Used on Payment #11 - FM Diversion Authority		(470,398)
Less: Match Used on Payment #12 - FM Diversion Authority		(237,286)
Less: Match Used on Payment #16 - FM Diversion Authority		(3,018,978)
Less: Match Used on Payment #17 - FM Diversion Authority		(1,374,624)
Less: Match Used on Payment #20 - FM Diversion Authority		(1,427,344)
Less: Match Used on Payment #22 - FM Diversion Authority		(116,437)
Less: Match Used on Payment #23 - FM Diversion Authority		(487,124)
Less: Match Used on Payment #24 - FM Diversion Authority		(1,688,474)
Less: Match Used on Payment #26 - FM Diversion Authority		(445,642)
<b>Balance of Local Matching Funds Available</b>	<b>\$</b>	<b>6,277,910</b>