

DATE: August 30, 2021
TO: Minger Construction
PROJECT: West 6th Interceptor Sewer Replacement

You are hereby requested to comply with the following changes from the contract plans and specifications:

A. Description: Foundation Wall Removal

Remove a previously unknown buried foundation wall in conflict with the 36" HOBAS Jacking pipe and dispose of related debris.

Cost Impact: \$18,762.64 (cost breakdown is attached)

Schedule Impact: None

Justification: Changed condition due to discovery of pre-existing buried unknown wall found to be in conflict with the work.

B. Description: MH PP002 Inside Drop Connection

Reconnect an existing forceman connection from the lift station to replacement Manhole PP002 with ductile iron pipe and an inside drop.

Cost Impact: \$11,259.70 (cost breakdown attached)

Schedule Impact: None

Justification: Changed condition to replace an existing force main connection that was failing and not fully described on the drawings.

C. Description: Manhole C Cone Connection

Add a 48" diameter manhole cone section to the top of Manhole C.

Cost Impact: \$1,462.57 (cost breakdown attached)

Schedule Impact: None

Justification: Manhole cone was required to better transition the site grading to the new structure.

D. Description: Manhole NN022 Outside Drop Connection

Reconnect the sewer with PVC pipe and concrete encasement to replace an existing outside sewer drop to the replacement Manhole NN002.

Cost Impact: \$7,165.32 (cost breakdown attached)

Schedule Impact: None

Justification:

The requirements for the outside drop was not clearly defined.

E. Description: Remove and Replace Manhole PP003

Remove and replace existing Manhole PP003 and the first section of the existing concrete driveway slab impacted by the work.

Cost Impact: \$17,730.62 (cost breakdown attached)

Schedule Impact: None

Justification:

Existing Manhole PP003 was found in the field and was used for bypass pumping during the project. This manhole could not previously be located. The existing manhole was found to be in very poor condition and it was determined by the RWWU that replacement of the manhole should be added to the project.

F. Description: Relocation of Manhole #1

Move the planned location of Manhole #1 further to the east in order mitigate a more sever conflict with an existing fiber optic duct in Kinzie Avenue.

Cost Impact: \$13,241.79 (cost breakdown attached)

Schedule Impact: None

Justification:

A fiber optic duct was found in the field to be located too close to the proposed sanitary sewer relocation. Manhole #1 was moved further to the east to provide additional clearance for construction. The manhole downstream was also relocated.

G. Description: Temporary Storm Sewers Along 6th Avenue

Replace two storm sewer inlet leads and storm inlets impacted by the excavation that was required to replace Manhole NN002 and the adjacent sanitary sewer connection to Manhole B. After discussing the storm sewer replacement with City of Racine representatives, since these storm sewer laterals and inlets will be removed in the near future with the bridge construction, the storm facilities will be replaced with temporary PVC pipe and FRP inlets.

Cost Impact: \$5,298.35 (cost breakdown attached)

Schedule Impact: None

Justification:

The storm sewer pipe and inlets could not be protected given the proximity to the work and observed existing ground conditions.

H. Description: Additional Removal and Replacement of Sidewalk

Remove and replace concrete sidewalk impacted by the interceptor construction work as directed in the field by the Engineer.

Cost Impact: \$34,738.00 (1,579 SF)

Schedule Impact: None

Justification:

This change is required to address concrete sidewalk that could not be protected due to the proximity to the work and also because of the poor existing condition of the sidewalk and the inability to protect it resulted in additional quantity.

I. Description: Snake Fence and Associated Restoration

Address special installation requirements for the fence to protect the Queen Snake from the work area in accordance with directions from the engineer Stantec. This includes additional mobilization for tree clearing and setting the fence and installing special erosion control netting,

Cost Impact: \$ 3,980.47 (cost breakdown attached)

Schedule Impact: None

Justification:

The requirements to address the protection of the Queen Snake was revised due to additional materials requirements for the erosion control netting and mobilizations to address the required construction phasing as it impacted the Queen Snake protection.

J. Description: Retaining Wall and Railing Modifications

Remove and replace handrail to accomplish the work, including additional length due to site conditions as directed by the engineer. Modify the handrail base with a new baseplate to meet current handrail codes.

Cost Impact: \$7,420.35 (cost breakdown attached)

Schedule Impact: None

Justification:

The existing handrail on top of the retaining wall, and additional length, had to be removed to accomplish the work. The handrail base had to be modified to meet current regulations prior to reinstallation.

Summary of Change Order Items A-J

Item	Description	Labor	Equipment	Materials	Subcontractor	Total
A	Foundation Wall Removal Due to Conflict	\$ 10,618.76	\$ 6,675.75	\$ 310.50	\$ 1,157.63	\$ 18,762.64
B	MH PP002 Inside Drop Connection	\$ 4,040.74	\$ 2,125.20	\$ 4,437.51	\$ 656.25	\$ 11,259.70
C	Manhole C Additional Cone Section	\$ 968.07	\$ 379.50	\$ 115.00	\$ -	\$ 1,462.57
D	Manhole NN022 Outside Drop Connection	\$ 2,555.99	\$ 1,775.60	\$ 2,177.48	\$ 656.25	\$ 7,165.32
E	Manhole PP003 Replacement	\$ 4,424.42	\$ 3,125.70	\$ 7,030.50	\$ 3,150.00	\$ 17,730.62
F	Manhole #1 Relocation Additional Work	\$ 5,808.42	\$ 4,333.20	\$ 3,100.17	\$ -	\$ 13,241.79
G	Temporary Storm Sewers Along 6th	\$ 2,420.18	\$ 1,457.05	\$ 1,421.12	\$ -	\$ 5,298.35
H	Concrete Sidewalk					\$ 34,738.00
I	Snake Fence/Restoration Additional Work	\$ -	\$ -	\$ -	\$ 3,980.47	\$ 3,980.47
J	Retaining Wall/Railing Modifications	\$ -	\$ -	\$ -	\$ 7,420.35	\$ 7,420.35
	TOTAL					\$121,059.81

K. Description: Adjustment of Final Quantities

Adjust the following plan quantities to address field conditions to accomplish the work.

Summary of Original Bid Item Quantity Adjustment

Item	Description	Unit	Unit Price	Quantity	Cost
9A	30: Nominal Interceptor	LF	\$ 890.00	25	\$ 22,250.00
13	72" Sewer Manhole	EA	\$ 1.00	15000	\$ 15,000.00
20	Flowable Fill	CY	\$ 215.00	-21	\$ (4,515.00)
21	Allowance for Tunnel obstruction Removal	EA	\$ 2,500.00	-1	\$ (2,500.00)
26	MSE Retainage Wall Remova/replacement	sf	\$ 50.00	-70	\$ (3,500.00)
27	Pavement Removal	SY	\$ 30.00	79	\$ 2,370.00
28	In-Kind Asphalt Pavement Replacement	Ton	\$ 200.00	69.82	\$ 13,964.00
29	Subgrade Stabilization Allowance	Ton	\$ 25.00	-170	\$ (4,250.00)
30	Concrete Curb and Gutter Removal and Replcement	LF	\$ 70.00	135	\$ 9,450.00
31	Restoration with Sod	SY	\$ 28.00	-50	\$ (1,400.00)
32	Restoration with Seed	SY	\$ 6.50	130	\$ 845.00
	TOTAL				\$ 47,714.00

Current Contract Amount: \$1,175,880.00
 The amount of the Contract will be increased by this change order: \$168,773.81
 Contract Amount with Change Order #1 \$1,344,653.81

The Contract Period provided for completion of the work is unchanged

This document will become a supplement to the Contract and all provisions will apply hereto.

Minger Construction Companies

Racine Wastewater Utility

BY: _____

BY: _____

TITLE: _____

TITLE: _____

DATE: _____

DATE: _____