NOTICE

This Addendum is issued to modify, explain or correct the original drawings, specifications and/or previous addendums and is hereby made a part of the Contract Documents. Please note receipt of this Addendum on the Request for Bid. The bid date remains unchanged.

BID DOCUMENTS

Replace the original Exhibit A with the attached revised Exhibit A.

DRAWINGS

Revisions to the drawings have been made with and are noted with a “clouded” perimeter and triangular footnote with the number 2, representing addendum no. 2.

Additional changes to the drawings are as follows:

1. Eliminate all sidewalk on the cul-de-sac on the north end of Nick Glumac Drive
2. Provide perforated subdrains around the cul-de-sac island at the end of Nick Glumac Drive. Connect subdrains to PCB 35. The pavement in this cul-de-sac is sloped to the center and the subgrade slope shall match the slope of the pavement.
3. On plan sheet DM1-DM3, delete part of Note 2, which states “ALL AREAS DISTURBED SHALL BE RESTORED PER SWPPP.”, replace with, “ALL AREAS DISTURBED SHALL BE RESTORED WITH 4” OF TOPSOIL BORROW (MnDOT 3877), MnDOT SEED MIX 250 AT 70 LBS/AC AND MULCH TYPE 1 OR 3 AT 2 TONS PER ACRE. EROSION CONTROL BLANKET WILL BE REQUIRED IN PLACE OF MULCH ON SLOPE 1:3 (v:h) OR GREATER AND ALL DITCH BOTTOMS AND EXTENDING 12” VERTICALLY UP THE SIDES PERPENDICULAR FROM THE DITCH BOTTOM.”
SPECIFICATION: SPECIAL PROVISIONS

SP-2  (1505) COOPERATION WITH OTHERS

Add the following to this section:

CN Railroad – is the property owner along the entire southern and eastern boundary of the Atlas Industrial Park. No construction activity or disturbance is allowed on this property, including access of any kind.

SP-10 (2105) EXCAVATION AND EMBANKMENT

Add the following to this section:

Removal of the existing / original infrastructure not shown on the plans will be paid for following City Standard Construction Specification section 1904. Work shall be approved prior to removal and disposal.
LIFT STATION TECHNICAL SPECIFICATIONS

DIVISION 44

SECTION 44 42 56.40 – LIFT STATION SUBMERSIBLE PUMPS

REPLACE Part 2, Section 2.03 A with this section:

A. Each raw wastewater pump shall meet design pumping conditions as follows:

Lift Station No. 53

Number of Pumps 2
Material Being Pumped Municipal Wastewater

Normal Operating Conditions (Operational Design Point(s))
Single Pump Operation (each pump):
Rated GPM 700 gpm
Min Efficiency at Ratted GPM 45%
Rated TDH 28 ft
Shut Off Head (0 gpm) 57 ft ±

Single Pump Operation (each pump):
Rated GPM (each pump) 300 gpm
Min Efficiency at Ratted GPM 56%
Rated TDH 47 ft
Shut Off Head (0 gpm) 57 ft ±

Single Pump Operation (each pump):
Rated GPM (each pump) 450 gpm
Min Efficiency at Ratted GPM 55%
Rated TDH 40 ft
Shut Off Head (0 gpm) 57 ft ±

Pump Characteristics
Model # KRT F 80-250-265
Impeller design: Vortex, non-clogging
Speed 1150 rpm
Min Solid Size 3.0"

Motor Characteristics
Explosion Proof Yes
Max. HP 10 HP
Voltage & Phase 208 volt-3 phase
Service Factor 1.15
NEMA Code H
Housing Type Air filled
Max. Amp Draw (FLA) 23.2 amps
Each raw wastewater pump shall meet design pumping conditions as follows:

**Lift Station No. 53**

<table>
<thead>
<tr>
<th>Number of Pumps</th>
<th>2</th>
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<tbody>
<tr>
<td>Material Being Pumped</td>
<td>Municipal Wastewater</td>
</tr>
</tbody>
</table>

**Normal Operating Conditions (Operational Design Point(s))**

**Single Pump Operation (each pump):**

- Rated GPM: 700 gpm
- Min Efficiency at Rated GPM: 62%
- Rated TDH: 38 ft
- Shut Off Head (0 gpm): 71 ft ±

**Single Pump Operation (each pump):**

- Rated GPM (each pump): 300 gpm
- Min Efficiency at Rated GPM: 48%
- Rated TDH: 55 ft
- Shut Off Head (0 gpm): 71 ft ±

**Single Pump Operation (each pump):**

- Rated GPM (each pump): 450 gpm
- Min Efficiency at Rated GPM: 60%
- Rated TDH: 47.5 ft
- Shut Off Head (0 gpm): 71 ft ±

**Pump Characteristics**

<table>
<thead>
<tr>
<th>Model #</th>
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<tr>
<td>Impeller design:</td>
<td>Non-clogging</td>
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<tr>
<td>Speed</td>
<td>1750 rpm</td>
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<tr>
<td>Min Solid Size</td>
<td>3.0&quot;</td>
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**Motor Characteristics**

<table>
<thead>
<tr>
<th>Model</th>
<th>21-12-4AL</th>
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<tbody>
<tr>
<td>Explosion Proof</td>
<td>Yes</td>
</tr>
<tr>
<td>Max. HP</td>
<td>10 HP</td>
</tr>
<tr>
<td>Voltage &amp; Phase</td>
<td>208 volt-3 phase</td>
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<tr>
<td>Service Factor</td>
<td>1.15</td>
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</table>

**END OF ADDENDUM**
CITY OF DULUTH
DEPARTMENT OF PUBLIC WORKS AND UTILITIES
ENGINEERING DIVISION
ATLAS INDUSTRIAL PARK IMPROVEMENTS

CONSTRUCTION PLANS FOR: ROADWAY AND UTILITIES IMPROVEMENTS.

LOCATED ON: NICK GLUMAC DRIVE, COMMONWEALTH AVENUE.
NOTES

1. SITE CONTAINS ABANDONED IN-PLACE UTILITY, PAVEMENT, BUILDING SLABS, AND FOUNDATIONS. NO ITEMS SHOWN IN THE PLAN TO BE REMOVED TO PERFORM THE WORK SHALL BE INCLUDED IN THE BASE BID. ALL UTILITY, PAVEMENT, BUILDING SLABS, AND FOUNDATIONS NOT SHOWN AND REQUIRE REMOVAL FOR THE PROPOSED WORK SHALL FALL UNDER THE CONTRACTOR’S RESPONSIBILITY FOR REMOVAL.

2. CONSTRUCTION SHALL BE COMPLETED AS NEEDED TO COMPLETE THE WORK. ALL AREAS DISTURBED SHALL BE RESTORED FOR COMPLETION OF THE PROJECT.

3. REPLACEMENT PAVEMENT FROM EXISTING PAVEMENTS ONCE UTILITIES ARE COMPLETED, UTILITIES ALL SHOWN ON THE DRAWING SHALL BE DIRECTIONALLY DRILLED. UNEVEN PAVEMENTS ADJACENT TO ROADWAY SHALL USE A TRENCH BOX AS NEEDED TO PREVENT DISTURBANCE TO THE CONCRETE PAVEMENT AND ITS BEARING ZONE.

This erosion control plan and the BMP is a starting point for the project. Contractor shall provide all erosion and sediment control measures necessary to complete the work and the requirements of the permit. Contractor shall be proactive and innovative in addressing the erosion/sediment control needs of the project and assist/oversee the BMP’s overall design and construction on-site.

AWARNING
BEFORE BIDDING CALL 1-888-279-1981 REQUIRED BY LAW

DULUTH PROJ No. 0959 ST
SHEET No. 03