Addendum #4  
File # 16-0274  
Project: Lakewood Water Treatment Plant HVAC System Improvements  

This addendum serves to notify all bidders of the following changes to the solicitation documents:

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.

PROJECT MANUAL  

SPECIAL PROVISIONS  

SP-10 METHOD ON PAYMENT  

REPLACE SP-10, 1. d. i., ii., & iii. with the following:

“SP-10, 1. d. i. Provide and deliver (1) 200 BTU NG Unit Heater to the city of Duluth at the Lakewood Water Treatment Plant (No Installation shall be included). The Gas-fired power-vented propeller unit heater shall be (1) Modine Model PDP-200HE130 Power-Vented Heater, or equal. Natural gas fired unit heater shall be designed for overhead suspended mounting, heater shall only requires venting, gas, and electric service connections prior to operation. Propeller fan units are classified as zero-static-pressure type, and should not be used with velocity-generating discharge nozzles or ductwork connections. Product shall have CSA Certification for use in the US and Canada 100% shut-off, intermittent pilot-ignition system with continuous retry, at no extra charge. This ignition system shall allow the unit to be field-converted to liquid propane. The unit shall be 80% thermally efficient. The unit shall have a power exhaust that can be rotated 180-degrees. The unit shall be capable of being vented vertically or horizontally. The unit shall be constructed with a blocked vent safety switch, 20 gauge aluminized steel cabinet, 115V control step down transformer with 24V gas controls, Aluminized steel heat exchanger, Aluminized steel burner with stainless steel separator strip Certified to 0.5" W.C., external static pressure single stage standing pilot control system for operation on natural gas, high limit safety control, control terminator board, adjustable motor sheaves on blower models, and Totally enclosed fan/blower motor.”
DIVISION 09 96 00 – Finishes

Section 09 96 00 - High Performance Coatings:

**CLARIFICATION** It is not the intent of this project to repaint all areas of the Lakewood WTP. It is the intent to paint the new materials and areas of the WTP that the majority work is occurring. It is not the intent of the work included in the project to paint new materials that are minor renovations. Refer to direction provided on the drawings, specification, and Finish Schedule Provided on E-23R.

DIVISION – 23 HEATING, VENTILATING, AND AIR CONDITIONING (HVAC)

Section 23 98 50 – HVAC Sequence of Operation: Sub-paragraph 3.02.G.

**ADD** clarification as follows: “System switches for EF-2 and EF-3 in Chlorine Feed and Chlorine Storage Rooms to be housed in NEMA 4X enclosures.”

Section 23 21 30 – Hydronic Heat Transfer Equipment: Paragraph 2.01.A and 2.02.A

**ADD** SIGMA, Airtherm and Vulcan as an approved manufacturer.

Section 23 73 30 – Air-To-Air Energy Recovery Ventilators, Paragraph 2.01.A

**ADD** Greenheck as an approved manufacturer.

DIVISION 26 – ELECTRICAL

All Sections

**CLARIFICATION** the CONTRACTOR may ignore references to specification and details that are not included in the Contract Documents. For example 26 90 00 is not included in this project. For clarification refer to Drawing Table of Contents and Project Manual Table of Content(s).

Section 26 23 29.16 Adjustable Frequency Drive – HVAC

**CLARIFICATION** it is the intent that the integrated and controlled equipment motor control including but not limited to Adjustable/Variable Frequency Drives shall be coordinate and provide with the equipment. All VFD’s on the project shall be coordinated to be by the same manufacture. Refer to drawings and schedules for additional information. The project shall furnish and install
all equipment for a complete and operable system as described by the Contract Documents.

Section 26 28 19 – Enclosed Switches

DELETE paragraph 26 28 19, 2.03.

DRAWINGS

Drawing G-2 REPLACE with the attached G-2R

Drawing PM-1 Mechanical Floor Plan

CLARIFICAITON the work included under this contract shall furnish and install (2) new sample pumps, rather than relocated the existing. The contractor shall still remove the existing sample pumps. The contractor shall adjust project scope and notes accordingly. Coordinate with all disciplines.

REPLACE Key Note 1 with the following: “Furnish and install new sample pumps SP-1 and SP-2. Sample pumps shall be Goulds MCC Series General Purpose Centrifugal Pump, or equal. The pump shall be 1-1/4” x 1” cast-iron pump with a continuous duty premium Efficient TEFC ¾ horsepower 1-phase motor. Pump shall develop approximately ~82’ TDH at deadhead condition and ~46’ TDH at 40 gpm.”

REPLACE Key Note 3 with the following: “Remove existing SP-1, turn-over to the OWNER. Furnish and install new sample pump SP-1 (Complete). Relocate/Replace the electrical connection and control.”

REPLACE Key Note 4 with the following: “Remove existing SP-2, turn-over to the OWNER. Furnish and install new sample pump SP-2 (Complete). Relocate/Replace the electrical connection and control.”

Drawing E-3 REPLACE with the attached E-3R
Drawing E-6 REPLACE with the attached E-6R
Drawing E-7 REPLACE with the attached E-7R
Drawing E-8 REPLACE with the attached E-8R
Drawing E-10 REPLACE with the attached E-10R
Drawing E-14 REPLACE with the attached E-14R
Drawing E-15 REPLACE with the attached E-15R
LAKEWOOD WTP HVAC SYSTEM IMPROVMENTS
CITY OF DULUTH
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Drawing E-16 REPLACE with the attached E-16R
Drawing E-17 REPLACE with the attached E-17R
Drawing E-18 REPLACE with the attached E-18R
Drawing E-19 REPLACE with the attached E-19R
Drawing E-22 REPLACE with the attached E-22R
Drawing E-23 REPLACE with the attached E-23R
Drawing E-24 REPLACE with the attached E-24R
Drawing E-25 REPLACE with the attached E-25R
Drawing E-26 REPLACE with the attached E-26R

Please acknowledge receipt of the Addendum by initially and dating Addendum #4 below the bid form on the invitation for bids.

Posted March 25, 2016

END OF ADDENDUM
GENERAL NOTES:
1. REFER TO AND COORDINATE WITH M-DRAWINGS.
2. DEMO ALL INSTRUMENTATION, CONNECTIONS, AND EQUIPMENT AS REQUIRED FOR PROJECT COMPLETION.
3. INTENT OF DEMOLITION: IT IS THE INTENT OF THE EC TO DEMOLISH, DISCONNECT, AND DISCONNECT ALL EQUIPMENT SHOWN AND REQUIRED TO COMPLETE PROJECT.
4. INSTRUMENTATION, CONNECTIONS, AND EQUIPMENT SHOWN AND REQUIRED TO COMPLETE PROJECT.

KEY NOTES:
1. EXISTING U - 4% REFER TO E - H
2. EXISTING WATER HEATER
3. EXISTING STORAGE CABINET TO BE DEMOLISHED
4. EXISTING AIR-HANDLER TO BE DEMOLISHED
5. DISCONNECT ALL DEVICES
6. DEMO EXISTING CONDENSATION PUMP AND DEVICES
7. EXISTING PUNCH-DOWN PANEL TO REMAIN

DRY/ CORROSIVE AREA
DRY/ NON-HAZARDOUS AREA
WET/ NON-HAZARDOUS AREA

FIRST FLOOR SOUTH ELECTRICAL PLAN-REMOVALS

SCALE: 1/8" = 1'-0" (22x34)
SCALE: 1/16" = 1'-0" (11x17)

GENERAL NOTES:
1. REFER TO AND COORDINATE WITH M-DRAWINGS.
2. DEMO ALL INSTRUMENTATION, CONNECTIONS, AND EQUIPMENT AS REQUIRED FOR PROJECT COMPLETION.
3. INTENT OF DEMOLITION: IT IS THE INTENT OF THE ELECTRIC CARPENTER TO DEMOLISH, DISCONNECT, AND DISCONNECT ALL EQUIPMENT SHOWN.
4. INSTRUMENTATION, CONNECTIONS, AND EQUIPMENT SHOWN AND REQUIRED TO COMPLETE PROJECT.

KEY NOTES:
1. EXISTING U - 4% REFER TO E - H
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4. EC SHALL DEMOLISH, DISCONNECT, AND REMOVAL OF ALL EQUIPMENT SHOWN AND REQUIRED TO COMPLETE PROJECT.

KEY NOTES:

1. DECOMMISSION, DISCONNECT, AND DEMOLISH EQUIPMENT COMPLETE (ALL CONNECTIONS), REMOVE CONTROL AND POWER CIRCUITS
2. DEMO / REPLACE EXISTING EF
3. DEMO / REPLACE MD-13
4. DEMO / REPLACE MD-14
5. DEMO / REPLACE MD-12
6. DEMO / REPLACE MD-11
7. DEMO / REPLACE MD-11

KEY PLAN - SECOND FLOOR

SECOND FLOOR NORTH ELECTRICAL PLAN - REMOVALS

SCALE: 1/8" = 1'-0" (22x34)
SCALE: 1/16" = 1'-0" (11x17)

WOMEN DF

KEY NOTES:

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2. DEMO / REPLACE EXISTING EF
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4. DEMO SHALL BE COMPLETED TO REMOVE ALL EQUIPMENT SHOWN AND REQUIRED TO COMPLETE PROJECT.

KEY NOTES:
1. DECOMMISSION, DISCONNECT, AND DEMO EQUIPMENT COMPLETE (ALL CONNECTIONS), REMOVE CONTROL AND POWER CIRCUITS.
2. DEMO EF
3. DEMO/REPLACE EF
4. DEMO DEHUMIDIFIER AND AIR HANDLING UNIT SYSTEM
5. EXISTING RTU TO REMAIN
6. DEMO / REPLACE MD-15
7. DEMO / REPLACE MD-16

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4. DEMO SHALL BE COMPLETED TO REMOVE ALL EQUIPMENT SHOWN AND REQUIRED TO COMPLETE PROJECT.
KEY NOTES:

1. **EXISTING XFMR-LP-1A&1B DISCONNECT TO BE DEMOLISHED**
2. **EXISTING XFMR-LP-L DISCONNECT**
3. **EXISTING XFMR-LP-1A&1B TO BE DEMOLISHED**
4. **EXISTING XFMR-LP-L4 DISCONNECT**
5. **EXISTING XFMR-LP-1B DISCONNECT**
6. **EXISTING XFMR-LP-1A DISCONNECT**
7. **EXISTING XFMR-LP-1A DISCONNECT**
8. **EXISTING XFMR-LP-1B DISCONNECT**
9. **EXISTING XFMR-LP-1B DISCONNECT**
10. **EXISTING XFMR-LP-1B DISCONNECT**
11. **EXISTING XFMR-LP-1A DISCONNECT**
12. **EXISTING XFMR-LP-1B DISCONNECT**
13. **EXISTING XFMR-LP-1A DISCONNECT**
14. **EXISTING XFMR-LP-1B DISCONNECT**
15. **EXISTING XFMR-LP-1A DISCONNECT**
16. **EXISTING XFMR-LP-1B DISCONNECT**
17. **EXISTING XFMR-LP-1A DISCONNECT**
18. **EXISTING XFMR-LP-1B DISCONNECT**
19. **EXISTING XFMR-LP-1A DISCONNECT**
20. **EXISTING XFMR-LP-1B DISCONNECT**
21. **EXISTING XFMR-LP-1A DISCONNECT**
22. **EXISTING XFMR-LP-1B DISCONNECT**
23. **EXISTING XFMR-LP-1A DISCONNECT**
24. **EXISTING XFMR-LP-1B DISCONNECT**

GENERAL NOTES:

1. REFER TO AND COORDINATE WITH M-DRAWINGS.
2. DEMO ALL INSTRUMENTATION, CONNECTIONS, AND EQUIPMENT AS REQUIRED FOR PROJECT COMPLETION.
3. NO WORK AREA DURING DEMO PERMITS, MATERIALS, ETC. RELATED TO ALL POWER AND HVAC ADDRESS WILL BE RECALLED FOR DEMOLITION AS MANDATED BY MSA.
4. ELECTRICAL CONTRACTOR SHALL DEMOLISH ALL EQUIPMENT DEVICES, MATERIAL, ETC. RELATED TO ALL POWER AND HVAC ADDRESS.

PROJECT NO.: 00616097
PROJECT DATE: MARCH 25, 2016
DRAWN BY: SCOTT R. CHILSON
SCALE: 1/8" = 1'-0" (22x34)
SCALE: 1/16" = 1'-0" (11x17)

SHEET FILE NO.: P:\610s\616\00616097\CADD\Construction Documents\ADDENDUM #1\616097 E-8R.dwg

CHECKED BY: MARCH 25, 2016
INIT SRC

WEB ADDRESS: www.msa-ps.com
818-722-3915  1-800-777-7380  FAX: 218-722-4548
332 W. Superior Street  Duluth, MN 55802
KEY PLAN - SECOND FLOOR

KEY NOTES:

1. CONNECT POWER EF-4 & MD-13, FURNISH WITH DISCONNECT RATED PLUG/REC SETS (TYP)
2. CONNECT POWER EF-5 & MD-14, FURNISH WITH DISCONNECT RATED PLUG/REC SETS (TYP)
3. CONNECT POWER EF-3 & MD-12, FURNISH WITH DISCONNECT RATED PLUG/REC SETS (TYP)
4. CONNECT POWER EF-2 & MD-11, FURNISH WITH DISCONNECT RATED PLUG/REC SETS (TYP)

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4. EC SHALL SUPPORT DISCONNECTING ALL EQUIPMENT SHOWN AND REQUIRED TO COMPLETE PROJECT

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SECOND FLOOR SOUTH DUCTWORK ELECTRICAL PLAN - PROPOSED

SECOND FLOOR NORTH DUCTWORK ELECTRICAL PLAN - PROPOSED

3/25  ADDENDUM #1
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4. EC SHALL SUPPORT DISCONNECTING ALL EQUIPMENT SHOWN AND REQUIRED TO COMPLETE PROJECT.

KEY NOTES:

1. CONNECT POWER EF-1, FURNISH WITH DISCONNECT RATED PLUG REC SET (TYP)
2. CONNECT POWER EF-6 & MD-15, FURNISH WITH DISCONNECT RATED PLUG REC SET (TYP)
3. CONNECT POWER EF-7 & MD-16, FURNISH WITH DISCONNECT RATED PLUG REC SET (TYP)
4. CONNECT POWER EF-8, FURNISH WITH DISCONNECT RATED PLUG REC SET (TYP)
5. CONNECT POWER EF-9, FURNISH WITH DISCONNECT RATED PLUG REC SET (TYP)
6. EXISTING ROOFTOP UNIT TO REMAIN. INTEGRATE PROPOSED TEMPERATURE CONTROL.
7. REFER TO AND COORDINATE WITH M-DRAWINGS.
8. DEMO ALL INSTRUMENTATION, CONNECTIONS, AND EQUIPMENT AS REQUIRED FOR PROJECT COMPLETION.
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4. REFER TO SCHEDULES FOR WORK.

KEY NOTES:
XXX

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3. INTENT OF DEMOLITION: IT IS THE INTENT OF THE EC TO DEMOLISH ALL EQUIPMENT, DEVICES, MATERIALS, ETC. RELATED TO ALL POWER CONNECTIONS. THE CONTRACTOR SHALL BE RESPONSIBLE FOR DEMO OF EQUIPMENT, DEVICES, CONTROL, ETC.
4. EC SHALL SUPPORT DISCONNECTING ALL EQUIPMENT SHOWN AND REQUIRED TO COMPLETE PROJECT.

KEY NOTES:
1. EXISTING EQUIPMENT, DEVICES, AND MATERIALS TO REMAIN.
2. DECOMMISSION, DISCONNECT, AND DEMOLISH EXISTING EQUIPMENT, DEVICES, AND CONNECTION MATERIALS COMPLETE. REUSE OF EXISTING CIRCUITS WILL BE ALLOWED WHEN THE EXISTING CIRCUITS DERIVE FROM AND TERMINATE IN CORRECT LOCATIONS.
3. REFER TO AND FURNISH NEW INTERLOCK CONTROL FOR EXISTING LIGHTING.
4. USE EXISTING MOTOR CONTROL AND FEEDER.
5. CONTROL BY MC.
6. REFER TO E-19.
7. FURNISH AND INSTALL NEW FEEDER, MOTOR CONTROL, AND CONNECTIONS AS SCHEDULED.
8. REPLACE AND UPGRADE MCC BUCKET TO PROVIDE NEW 300/3P CB DISCONNECT BUCKET.
9. FURNISH AND INSTALL NEW EQUIPMENT, MATERIALS, DEVICES, WIRING, ETC. (COMPLETE).
10. DECOMMISSION FEEDER BUCKET.
11. REFER TO E-19.

EXISTING ONE-LINE DIAGRAM NO. 1
LAKEWOOD, MN
CITY OF DULUTH
LAKEWOOD WTP HVAC SYSTEM IMPROVEMENTS

PLANNED CONSTRUCTION
- M-00616097 PLOT DATE: NO. 3/25/16
- P:
  - 510s
  - 616
  - 616097
  - CADD
  - Construction Documents
  - ADDENDUM #1
  - 616097 E-17R.dwg
- BY LICENSE NO.
  - SCOTT R. CHILSON
  - 44287
  - MARCH 25, 2016
- SCALE: AS SHOWN
- 218-722-3915  1-800-777-7380  Fax: 218-722-4548
- 332 W. Superior Street  Duluth, MN 55802
- Web Address: www.msa-ps.com

- M-00616097 CHECKED BY:
- MARCH 2016
- 00616097

- M-00616097 PROJECT NO.:
- PROJECT DATE:
- SCALE:
- DRAWN BY:
- AS SHOWN
- SRC GENERAL NOTES:
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- DEMO ALL INSTRUMENTATION, CONNECTIONS, AND EQUIPMENT AS REQUIRED FOR PROJECT COMPLETION.
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- FURNISH AND INSTALL NEW EQUIPMENT, MATERIALS, DEVICES, WIRING, ETC. (COMPLETE).
- DECOMMISSION FEEDER BUCKET.
- REFER TO E-19.
1. Existing equipment, devices, and materials to remain.
2. Decommission, disconnect, and demolish existing equipment, devices, and connection materials as complete. Reuse of existing circuits shall be allowed when: the existing equipment, devices, and connection materials are to be installed at the correct locations. Otherwise, the existing control, feeders, circuits, etc. shall be removed and replaced.
3. Reuse and furnish new interlock control for existing lighting.
4. Reuse existing motor control and feeder.
5. Control by MCA.
6. Refer to and coordinate with MCA for all interlocks.
7. Furnish and install new feeder, motor control, and connections as scheduled.
8. Replace or upgrade existing MCCB to prevent new MCCB from burning.
9. Refer to E-19.
10. Furnish and install new equipment, materials, devices, wiring, etc. (complete).
11. Decommission feeder bucket.
12. Change existing interlocked and feed new MCCB.

Key Notes:

1. Remove existing starter and feed new AHU-3.
2. Decommission feeder bucket.
3. Reuse existing motor control and feeder.
4. Furnish and install new equipment, materials, devices, wiring, etc. (complete).
5. Decommission feeder bucket.
6. Refer to and coordinate with MCA for all interlocks.
7. Control by MCA.
8. Change existing interlocked and feed new MCCB.
9. Furnish and install new feeder, motor control, and connections as scheduled.
10. Replace or upgrade existing MCCB to prevent new MCCB from burning.

General Notes:

1. Refer to and coordinate with MCA for all interlocks.
2. Demol all instrumentation, connections, and equipment as required for project completion.
3. Contractor shall be responsible for decommissioning, disconnecting, and demolishing all equipment, devices, materials, etc. related to all power connections. HVAC contractor shall be responsible for decommissioning, disconnecting, and demolishing all equipment, devices, materials, etc. related to all power connections.
4. EC shall support disconnecting all equipment shown and required to complete project.
5. Intention: Division of demolition. It is the intention of the EC to demolish all equipment devices, materials, etc. related to all power connections. HVAC equipment, devices, and materials to remain.
6. Refer to and coordinate with MCA for all interlocks.
7. Control by MCA.
8. Furnish and install new feeder, motor control, and connections as scheduled.
9. Replace or upgrade existing MCCB to prevent new MCCB from burning.
10. Refer to E-19.
11. Furnish and install new equipment, materials, devices, wiring, etc. (complete).
12. Decommission feeder bucket.
**General Note:**

1. Refer to Schedules and Specification for additional information.
## LUMINAIRE SCHEDULE

### GENERAL LUMINAIRE SCHEDULE NOTES:

- See specific section for additional information regarding luminaire and installation requirements. Provide options and accessories referenced by the column titled "options/accessories." Manufacturers listed as acceptable shall meet all requirements and features indicated. Acceptable manufacturers must meet the photometric performance of the listed unit.
- Manufacturer names and catalog numbers are used for quality and performance only. Luminaires and other electrical devices manufactured by others shall be equally acceptable provided they meet or exceed in performance and quality as specified.
- All fluorescent lamp/ballast lamp/ballasts wired to the dimming system shall be burned-in for a minimum of 100 hours prior to dimming system set-up/programming.
- Each fluorescent luminaire shall be supplied with quick disconnecting means for all ballasts as required by NEC 410.73. Provide THOM and BETTS L02 or L03 or equivalent.
- All selection are best attempt to identify the correct item. The supplier shall coordinate and confirm all selection and applications based on the intent of the contract.

## BALLAST CODE LISTING:

See specific section for additional information regarding luminaire and installation requirements. Provide options and accessories referenced by the column titled "options/accessories." Manufacturers listed as acceptable shall meet all requirements and features indicated. Acceptable manufacturers must meet the photometric performance of the listed unit.

### OPTIONS/ACCESSORIES CODE LISTING:

- **SEMI-REFLECTOR**
- **LOW INDOOR REFLECTOR**
- **FLAT PARALUMINA DOOR FRAME**
- **REGRESSED ALUMINUM DOOR FRAME**
- **SINGLE GASKET DOOR FRAME**
- **DOUBLER GASKET DOOR FRAME**
- **TRIPLE GASKET DOOR FRAME BACK**
- **ANTIMICROBIAL PROTECTION PAINTED FINISH**
- **DAMP LOCATION CONSTRUCTION**

### OPTIONS/ACCESSORIES CODE LISTING:

- **FURNISH WITH PHOTO CELL**
- **FURNISH INFRARED 10W LED**
- **CUSTOM PAINTED FINISH - COLOR AS SELECTED BY ARCHITECT**
- **FURNISH WITH BRACKETS**
- **FURNISH WIRE GUARD**
- **FURNISH CHAIN MOUNTING ACCESSORIES**
- **FURNISH WITH RECESSED LIGHTING**

---

<table>
<thead>
<tr>
<th>DES.</th>
<th>LAMP DATA</th>
<th>DESCRIPTION</th>
<th>MANUFACTURE</th>
<th>LUMINAIRE VOLT</th>
<th>BALLAST DRIVER CODE</th>
<th>MOUNT</th>
<th>CATALOG SERIAL</th>
<th>CEILING TYPE</th>
<th>LUMINAIRE DEPTH</th>
<th>OPTIONS/ACCESSORIES CODE #</th>
<th>ACCEPTABLE MANUFACTURERS</th>
<th>SEE NOTE #</th>
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<td>V1</td>
<td>1 LED</td>
<td>ROUGH SERVICE FIXTURE</td>
<td>PHILIPS</td>
<td>LED MSL ST V</td>
<td>020 20 V</td>
<td>FLUXSTREAM 2 3800LM 4000K (F-EZ.38-40-U3LAD.PH900-UM)</td>
<td>V 5&quot;</td>
<td>PDD2.0N</td>
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<td>10.1 A</td>
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<tr>
<td>V2</td>
<td>2 LED</td>
<td>ROUGH SERVICE FIXTURE</td>
<td>LITHONIA</td>
<td>WP LED MSL ST V</td>
<td>020 20 V</td>
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<td>WPP2.0N</td>
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The image contains a table listing luminaire descriptions, manufacturers, voltages, and other details related to a specific electrical schedule. The table includes columns for description, luminaire type, voltage, ballast driver code, mount, catalog serial number, ceiling type, luminaire depth, options/accessories code number, acceptable manufacturers, and see note number.
### Electrical Schedules No. 4

#### Lakeview WTP HVAC System Improvements

**Plot Date:** March 25, 2016

**Filed No.:** 00616097

**By:** Scott R. Chilson

**License No.:** 44287

**Date:** March 25, 2016

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<tr>
<th>Equipment/Description</th>
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<th>AMPs</th>
<th>Volts</th>
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### Notes:

1. Information provided is the best information available. The contractor shall provide pre-construction inspection to verify all connections.
2. The contractor shall note all discrepancies and feed-back. Support requests are handled locally.
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<table>
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<th>SHEET NO.</th>
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<th>PROJECT DATE</th>
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<th>AS SHOWN</th>
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**LAKEWOOD, MN**

**CITY OF DULUTH**

**LAKEWOOD WTP HVAC SYSTEM IMPROVEMENTS**

**PLOT DATE:**

**NO.**

**DATE**

**REVISION**

**SHEET**

**FILE NO.**

**ELECTRICAL SCHEDULES NO. 5**

**00616097**