GRISWOLD WPF RAW WATER STRUCTURE - PHASE 2
CITY OF AURORA, COLORADO

14211 EAST HAMPDEN AVE
AURORA, CO 80014

BID SET
VOLUME 3 OF 3

390 INTERLOCKEN CRESCENT, SUITE 800
BROOMFIELD, COLORADO 80021

Approved One Year From This Date

City Engineer Date
Water Department Date
Fire Department Date
TEST STATIONS:

1. **Electrical Continuity:**
   - All burial or vault joints shall be bonded for electrical continuity.
   - Provide two screws on each joint to isolate otherwise.
   - Flexible coupling flanged coupling adapters or 
     flanged coupling adapters shall be bonded similar to flanges.
   - Use test flare pipe, green - non-potentiometric, or 
     blue - corrosion coupons.
   - Use test flare pipe, green - non-potentiometric, or 
     blue - corrosion coupons.
   - Use test flare pipe, green - non-potentiometric, or 
     blue - corrosion coupons.

2. **Electrical Isolation:**
   - Provide insulating joints in pipelines where indicated on the drawings.
   - Test all insulating joints for electrical isolation as indicated.
   - Provide DC blocking devices and insulating unions in electrical connections on all motor operated valves per 
     detail 6, sheet 100.
   - Insulating unions shall be electrically isolated from cathodically protected 
     metal.

**Diagram:**

- Test station locations shown on site.
- Anode header wire is used for test station.
- Pipeline, coated steel or GI, shall be 3.5' in length.
- Tape wrap connection, see note 1.
- Compression connector, see.

**Notes:**

1. For type A test station locations see test station schedule.
2. For type B test station locations see general notes and test station schedule.
3. Anode header wire is 2.2' deep minimum.

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**Typical Galvanic Anode Groundbed Plan**

**Galvanic Anode Wire Splices**
## CODE COMPLIANCE SUMMARY

**2015 INTERNATIONAL BUILDING CODE & ARTICLE IV & AMENDMENTS**

| AREA NAME          | DWG NO | CONVEY TYPE | COVER/FLOOR ELEVATION | WALL MATERIALS IN STORAGE AREA (WASH. LOAD) | WALL MATERIALS IN STORAGE AREA (OCCUPANCY CLASSIFICATION) | OCCUPANCY CLASSIFICATION | ALLOWABLE STOREROOM HEIGHT | ACTUAL STOREROOM HEIGHT | MAXIMUM ALLOWABLE CLEARANCE (IN. FLOOR) | ALLOWABLE CLEARANCE (IN. CEILING) | ACTUAL CLEARANCE (IN. FLOOR) | MAXIMUM CLEARANCE (IN. CEILING) | ACTUAL CLEARANCE (IN. CEILING) | OCCUPANCY SPACE (IN. CEILING) | FIREPROOF WALL/FLOOR | FIRE ACCESS |
|--------------------|--------|-------------|------------------------|---------------------------------------------|-------------------------------------------------------------|--------------------------|----------------------------|---------------------------|------------------------------------------|---------------------------------|-----------------------------|-------------------------------|-------------------------------|---------------------------------|-----------------------------|------------------|-----------------|
| RAW WATER STRUCTURE|        |             |                        |                                             |                                                             |                          |                            |                           |                                          |                                 |                            |                                |                                |                                 |                                |                   |                 |
| BUSINESS VAULT 1   | A111   | A111        | 57402                  | NA                                          | NA                                                          | NA                       | 6                          | 21'10"                    | 21'10"                                                                  | 15,508 SY                        | 8,608 SY                     | 356 SY                        | 356 SY                        | 356 SY                                | NA                          | NA              | NA              |
| ELECTRICAL ROOM    | A111   | A111        | 57402                  | NA                                          | NA                                                          | NA                       | 6                          | 21'10"                    | 21'10"                                                                  | 16,506 SY                        | 8,608 SY                     | 356 SY                        | 356 SY                        | 356 SY                                | NA                          | NA              | NA              |
| SAMPLING ROOM      | A111   | A111        | 57402                  | NA                                          | NA                                                          | NA                       | 6                          | 21'10"                    | 21'10"                                                                  | 14,608 SY                        | 8,608 SY                     | 356 SY                        | 356 SY                        | 356 SY                                | NA                          | NA              | NA              |
| STORAGE ROOM       | A111   | A111        | 57402                  | NA                                          | NA                                                          | NA                       | 6                          | 21'10"                    | 21'10"                                                                  | 17,008 SY                        | 11,608 SY                    | 356 SY                        | 356 SY                        | 356 SY                                | NA                          | NA              | NA              |
| TOTAL STORE        |        |             |                        |                                             |                                                             |                          |                            |                           |                                          |                                 |                            |                                |                                |                                 |                                |                   |                 |

### GENERAL NOTES
1. **BUILDING CODES:**
   - **FIRE PROOF WALLS AND FLOOR:**
   - **ACCESS:**

### 2015 INTERNATIONAL ENERGY CODE

### SCHEDULES

#### ROOM FINISH SCHEDULE

<table>
<thead>
<tr>
<th>ROOM NAME</th>
<th>DWG NO</th>
<th>ROOM NO.</th>
<th>WALL FINISH</th>
<th>CEILING FINISH</th>
<th>FLOOR FINISH</th>
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#### DOOR AND HARDWARE SCHEDULE

| DOOR NO. | DWG NO. | SHELF | LOCATION | DEC LAPS | TOLERANCE | THICKNESS | MATERIAL | FINISH | FORMULAR | HEAD | TOP |HEIGHT | TAIL | HEIGHT | MICRO | ANT | ANTI | ANALOG | ANT | ANALOG | MICRO | ANT | ANALOG | MICRO | ANT | ANALOG |
|----------|---------|-------|----------|----------|-----------|-----------|----------|--------|----------|------|-----|-------|------|-------|-------|-----|-----|-------|-------|-----|-------|-------|-----|-----|-------|-------|-----|-------|
| 1        | A111    | 52902 | OCTOBER  | 1 1/2"   | 1 1/2"    | 7 1/4"   | STAIN    | NA     | NA       | 11"  | 11" | 88"   | 5"   | 88"   | NA    | NA  | NA  | NA    | NA   | NA  | NA    | NA   | NA  | NA    | NA   | NA  | NA    |
| 2        | A111    | 52904 | OCTOBER  | 1 1/2"   | 1 1/2"    | 7 1/4"   | STAIN    | NA     | NA       | 11"  | 11" | 88"   | 5"   | 88"   | NA    | NA  | NA  | NA    | NA   | NA  | NA    | NA   | NA  | NA    | NA   | NA  | NA    |
| 3        | A111    | 52903 | OCTOBER  | 1 1/2"   | 1 1/2"    | 7 1/4"   | STAIN    | NA     | NA       | 11"  | 11" | 88"   | 5"   | 88"   | NA    | NA  | NA  | NA    | NA   | NA  | NA    | NA   | NA  | NA    | NA   | NA  | NA    |
| 4        | A111    | 52905 | OCTOBER  | 1 1/2"   | 1 1/2"    | 7 1/4"   | STAIN    | NA     | NA       | 11"  | 11" | 88"   | 5"   | 88"   | NA    | NA  | NA  | NA    | NA   | NA  | NA    | NA   | NA  | NA    | NA   | NA  | NA    |
| 5        | A111    | 52906 | OCTOBER  | 1 1/2"   | 1 1/2"    | 7 1/4"   | STAIN    | NA     | NA       | 11"  | 11" | 88"   | 5"   | 88"   | NA    | NA  | NA  | NA    | NA   | NA  | NA    | NA   | NA  | NA    | NA   | NA  | NA    |
| 6        | A111    | 52907 | OCTOBER  | 1 1/2"   | 1 1/2"    | 7 1/4"   | STAIN    | NA     | NA       | 11"  | 11" | 88"   | 5"   | 88"   | NA    | NA  | NA  | NA    | NA   | NA  | NA    | NA   | NA  | NA    | NA   | NA  | NA    |
| 7        | A111    | 52908 | OCTOBER  | 1 1/2"   | 1 1/2"    | 7 1/4"   | STAIN    | NA     | NA       | 11"  | 11" | 88"   | 5"   | 88"   | NA    | NA  | NA  | NA    | NA   | NA  | NA    | NA   | NA  | NA    | NA   | NA  | NA    |
| 8        | A111    | 52909 | OCTOBER  | 1 1/2"   | 1 1/2"    | 7 1/4"   | STAIN    | NA     | NA       | 11"  | 11" | 88"   | 5"   | 88"   | NA    | NA  | NA  | NA    | NA   | NA  | NA    | NA   | NA  | NA    | NA   | NA  | NA    |
| 9        | A111    | 52910 | OCTOBER  | 1 1/2"   | 1 1/2"    | 7 1/4"   | STAIN    | NA     | NA       | 11"  | 11" | 88"   | 5"   | 88"   | NA    | NA  | NA  | NA    | NA   | NA  | NA    | NA   | NA  | NA    | NA   | NA  | NA    |

### CITY OF AURORA

**GRISWOLD W/P RAW WATER STRUCTURE - PHASE 2**

**BUILDING CODE ANALYSIS, DOOR AND FINISH SCHEDULES**

**PROJECT NO.: 2010-0022**

**FILE NAME: OMAH0022.pdf**

**DATE: OCTOBER 2014**

**CODE: 2010 IECC**

**STANDARDS CODE: 2010 IBC**

**BUILDING CODE: 2010 IBC**

**LOCATION: AURORA**

**DATE OF SUBMISSION: OCTOBER 2014**

**DATE OF ISSUE: OCTOBER 2014**
Digitally signed by Jeffrey C. Alband
Contact Info: Carollo Engineers Inc
Date: 2019.10.29 14:30:27-07'00'
GENERAL NOTES:
1. Roof drain outlets shall be at a minimum of 24" F.P.O. in the direction of flow.
2. Fittings shall be field-installed to avoid condensation and moisture damage.
3. Support framing along walls per details.
4. Fireproofing and fireproofing in all fire penetrations per F.D.A. requirements.
5. Coordinate roof drain locations with architectural drawings.

KEY NOTATION:
1. Red for roof drain pipes shall, determined by a material section through the horizontal wall. Provide downslopes at fire penetrations.
2. Red, over the roof drain pipes, determined by a material section through the horizontal wall. Provide downslopes at fire penetrations.
### Panel Schedule

**Existing LP-303**

- **Location**: [Details]
- **Date**: 2019.10.29
- **Contact Info**: Carollo Engineers, Inc.

**LP-303**

- **Location**: [Details]
- **Date**: 2019.10.29
- **Contact Info**: Carollo Engineers, Inc.

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<th>Capacity</th>
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<td>Type 3</td>
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**City of Aurora**

GRISWOLD WTP RAW WATER STRUCTURE - PHASE 2

**Panelboard Schedules**

**Details**

- [Additional details]

---

**Drawing Information**

- **Scale**: [Details]
- **Date**: 2019.10.29
- **Contact Info**: Carollo Engineers, Inc.

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**Carollo Water**

[Logo]

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**Aurora Water**

[Logo]
## DISCONNECT SCHEDULE

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**ACCESSORY OSC-1**
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<td>EVOLUX</td>
<td>FVLEDW3/M</td>
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<td>LED</td>
<td>EVOLUX</td>
<td>FVLEDW3/M</td>
<td>S1/8/31</td>
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GENERAL NOTES:
1. PROVIDE INSTRUMENTS AND VENTS AS INDICATED ON PANEL.
2. SAMPLE PANEL IS ONLY A DEMO PANEL. REFER TO THE PIPING FOR MORE ACCESSORY DEFINITION OF THE SAMPLE PANEL.

KEY NOTES:
1. DRAIN PIPS (IF ANY)
2. INDICATE PIPING CONDUIT THROUGH PANELS UP TO DEEPEST POSITION OF PANEL.
3. 1/8" COP BOARDS.
4. SINGLE-GANG CAST BOX WITH POLYCARBONATE HOUSING.
5. COVERING Certification shall be weatherproof and in lieu of Form.
6. BOXES FOR ALL INSTRUMENTS TO BE PROVIDED.
7. USE APPROVED STRUCTURAL, MOUNTING, MOUNTING (HOLDING) AND ACCESSORIES.
8. ALUMINUM CUDDLE STEEL DRAIN TERRY.
9. USE MATERIALS DESCRIBED CONFORM TO DESIGN DESIGNATION TO ALL INSTRUMENTS.
10. CONSTRUCTION SHALL BE CONSENT TO ALL VERTICAL CONSTRUCTION IN THE FRAME AS PER THE INSTRUMENT LOCATION.
11. Volt INSTRUMENT DISPLAY AT TOP ABOVE FINISHED FLOOR.

ELEVATION
SCALE: 1/8" = 1'-0"

A TYPICAL SAMPLE PANEL SECTION
SCALE: 1/8" = 1'-0"