Know what's below. Call before you dig.

WRRF - PUBLIC SERVICES - CITY OF ANN ARBOR
CITY OF ANN ARBOR
PUBLIC SERVICES
301 EAST HURON STREET
P.O. BOX 8647
ANN ARBOR, MI 48107-8647
734-794-6410
www.a2gov.org

MOTOR CONTROL CENTERS E & F
REPLACEMENT PROJECT

REMOVE EXISTING MOTOR CONTROL CENTER (MCC-E), REUSE EXISTING WIRE AND CONDUIT AS REQUIRED.

REMOVE EXISTING MOTOR CONTROL CENTER (MCC-F), REUSE EXISTING WIRE AND CONDUIT AS REQUIRED.

ELECTRICAL ROOM DEMOLITION PLAN - EL. 758
Screw electrical equipment on West side of rack.

Installation of the new distribution panels to the equipment and motor starters.

Distribution panel, circulate air. Crescent HMK1S required for all required run and cond.

Move/Relocate new (2) sets 3-#350kcmil DP-F, fed from distribution panel.

New 600A 2B. Reconnect terminal boxes of the MCC's and wiring as required.

Note that there are extensions from MCC-E, but are approx. 260.

New 600A distribution panel, refer to one-line diagrams on DWG. E-4.

New (2) motor starters, refer to wiring diagram on DWG. E-4.

New 600A distribution panel, refer to wiring diagram on DWG. E-4.

New MP pew pump No. 1 motor starter.

New HP pew pump No. 1 motor starter.

New RB drain pump No. 3 motor starter.

New RB drain pump No. 2 motor starter.

New RB drain pump No. 4 motor starter.

New RB drain pump No. 8 soft starter.

New RB drain pump No. 6 soft starter.

Clearance from equip. 301 East Huron Street.

5'-6" A.F.F.

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### NEW DISTRIBUTION PANEL "DP-E" SCHEDULE

<table>
<thead>
<tr>
<th>NO.</th>
<th>DESCRIPTION</th>
<th>LOAD</th>
<th>WIRE</th>
<th>CIRCUIT</th>
</tr>
</thead>
<tbody>
<tr>
<td>1</td>
<td>FRESHWATER IN</td>
<td>100A</td>
<td>3-#10 + #10 GRD., 3/4&quot;C.</td>
<td>NO REQUIRED OR A.B.</td>
</tr>
<tr>
<td>2</td>
<td>FRESHWATER OUT</td>
<td>100A</td>
<td>3-#2 + #6 GRD., 1 1/2&quot;C.</td>
<td>NO REQUIRED OR A.B.</td>
</tr>
<tr>
<td>3</td>
<td>GAS PUMP</td>
<td>NOA</td>
<td>3-#2/0 + #6 GRD., 2&quot;C.</td>
<td>NO REQUIRED OR A.B.</td>
</tr>
<tr>
<td>4</td>
<td>GAS CONTROL</td>
<td>NOA</td>
<td>3-#2 + #6 GRD., 1 1/2&quot;C.</td>
<td>NO REQUIRED OR A.B.</td>
</tr>
<tr>
<td>5</td>
<td>GAS PUMP OUT</td>
<td>NOA</td>
<td>3-#2/0 + #6 GRD., 2&quot;C.</td>
<td>NO REQUIRED OR A.B.</td>
</tr>
<tr>
<td>6</td>
<td>GAS CONTROL OUT</td>
<td>NOA</td>
<td>3-#2 + #6 GRD., 1 1/2&quot;C.</td>
<td>NO REQUIRED OR A.B.</td>
</tr>
<tr>
<td>7</td>
<td>SEC PUMP OUT</td>
<td>NOA</td>
<td>3-#10 + #10 GRD., 3/4&quot;C.</td>
<td>NO REQUIRED OR A.B.</td>
</tr>
<tr>
<td>8</td>
<td>SECURITY GATE</td>
<td>NOA</td>
<td>3-#10 + #10 GRD., 3/4&quot;C.</td>
<td>NO REQUIRED OR A.B.</td>
</tr>
<tr>
<td>9</td>
<td>SCREW PUMP</td>
<td>NOA</td>
<td>3-#10 + #10 GRD., 3/4&quot;C.</td>
<td>NO REQUIRED OR A.B.</td>
</tr>
</tbody>
</table>

### NEW DISTRIBUTION PANEL "DP-F" SCHEDULE

<table>
<thead>
<tr>
<th>NO.</th>
<th>DESCRIPTION</th>
<th>LOAD</th>
<th>WIRE</th>
<th>CIRCUIT</th>
</tr>
</thead>
<tbody>
<tr>
<td>1</td>
<td>FRESHWATER IN</td>
<td>100A</td>
<td>3-#10 + #10 GRD., 3/4&quot;C.</td>
<td>NO REQUIRED OR A.B.</td>
</tr>
<tr>
<td>2</td>
<td>FRESHWATER OUT</td>
<td>100A</td>
<td>3-#2 + #6 GRD., 1 1/2&quot;C.</td>
<td>NO REQUIRED OR A.B.</td>
</tr>
<tr>
<td>3</td>
<td>GAS PUMP</td>
<td>NOA</td>
<td>3-#2/0 + #6 GRD., 2&quot;C.</td>
<td>NO REQUIRED OR A.B.</td>
</tr>
<tr>
<td>4</td>
<td>GAS CONTROL</td>
<td>NOA</td>
<td>3-#2 + #6 GRD., 1 1/2&quot;C.</td>
<td>NO REQUIRED OR A.B.</td>
</tr>
<tr>
<td>5</td>
<td>GAS PUMP OUT</td>
<td>NOA</td>
<td>3-#2/0 + #6 GRD., 2&quot;C.</td>
<td>NO REQUIRED OR A.B.</td>
</tr>
<tr>
<td>6</td>
<td>GAS CONTROL OUT</td>
<td>NOA</td>
<td>3-#2 + #6 GRD., 1 1/2&quot;C.</td>
<td>NO REQUIRED OR A.B.</td>
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<td>7</td>
<td>SEC PUMP OUT</td>
<td>NOA</td>
<td>3-#10 + #10 GRD., 3/4&quot;C.</td>
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<td>SECURITY GATE</td>
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<td>SCREW PUMP</td>
<td>NOA</td>
<td>3-#10 + #10 GRD., 3/4&quot;C.</td>
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</table>
PUMP STARTER MCP
OFF AUTO
HAND

SUMP PUMP NO. 1 WIRING DIAGRAM
WIRING DIAGRAM BASED ON REFERENCE DRAWINGS, VERIFY IN FIELD
■ DEVICE LOCATED REMOTELY

F-28
F-29
F-30
E-05

RUNNING
480-120 V., 1 PH.

CONTROL TRANSFORMER SPARE

L
1
2
3
4

GRD.
480V., 3PH., 60 HZ
FROM NEW DP-E/F ENCLOSED COMBINATION
MOTOR STARTER

ETM
RECONNECT START CONTACT OR PROVIDE JUMPER, AS REQUIRED

MOTOR SIZE 1

E-31
F-24
F-25

= DEVICE LOCATED REMOTELY

ROOF FAN RF-5 WIRING DIAGRAM
WIRING DIAGRAM BASED ON REFERENCE DRAWINGS, VERIFY IN FIELD
■ DEVICE LOCATED REMOTELY

F-26
E-06

RUNNING
480-120 V., 1 PH.

CONTROL TRANSFORMER SPARE

L
1
2
3
4

GRD.
480V., 3PH., 60 HZ
FROM NEW DP-E/F ENCLOSED COMBINATION
MOTOR STARTER

ETM
RECONNECT START CONTACT OR PROVIDE JUMPER, AS REQUIRED

MOTOR SIZE 1

E-31
F-24
F-25

= DEVICE LOCATED REMOTELY

FROM NEW DP-E/F ENCLOSED COMBINATION
MOTOR STARTER

ETM

RECONNECT START CONTACT OR PROVIDE JUMPER, AS REQUIRED

MOTOR SIZE 1

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MOTOR STARTER

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RECONNECT START CONTACT OR PROVIDE JUMPER, AS REQUIRED

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E-31
F-24
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= DEVICE LOCATED REMOTELY
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MOTOR CONTROL CENTERS E & F
REPLACEMENT PROJECT
REF-7

LEGEND

- Power source in field: S, D (2) 50 Hz (2)
- Power source in field: V, L (2) 480 V (2)
- Supply of power: C (2)
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