CONTRACT DOCUMENTS
FOR MODIFICATIONS TO THE

MONTEREY WASTEWATER
TREATMENT FACILITY

PREPARED FOR
UNITED WATER FLORIDA
JACKSONVILLE, FLORIDA

RECORD DRAWINGS

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DRAWINGS

RECORD DRAWINGS

PROJECT NO. 103521.M2
NOVEMBER 1987
CENTRIFUGE PLATFORM FOUNDATION PLAN

CENTRIFUGE PLATFORM TOP PLAN

FOOTING SCHEDULE

<table>
<thead>
<tr>
<th>FOOTING</th>
<th>SIZE</th>
<th>DEPTH</th>
<th>REINFORCED</th>
<th>REMARKS</th>
</tr>
</thead>
<tbody>
<tr>
<td>FTG 1</td>
<td>6'-0&quot; x 8'-0&quot;</td>
<td>18&quot;</td>
<td>8-#8 RL</td>
<td>BEAMS</td>
</tr>
<tr>
<td>FTG 2</td>
<td>7'-0&quot; x 7'-0&quot;</td>
<td>18&quot;</td>
<td>10-#10 RL</td>
<td>TOP &amp; BUR</td>
</tr>
</tbody>
</table>

BEAM SCHEDULE

<table>
<thead>
<tr>
<th>BEAM</th>
<th>WIDTH</th>
<th>DEPTH</th>
<th>REINFORCED</th>
<th>REMARKS</th>
</tr>
</thead>
<tbody>
<tr>
<td>B 1</td>
<td>2'-0&quot;</td>
<td>2'-0&quot;</td>
<td>6-#8</td>
<td>3'-6&quot;</td>
</tr>
<tr>
<td>B 2</td>
<td>2'-0&quot;</td>
<td>2'-0&quot;</td>
<td>6-#8</td>
<td>0'-0&quot;</td>
</tr>
<tr>
<td>B 3</td>
<td>2'-0&quot;</td>
<td>2'-0&quot;</td>
<td>6-#8</td>
<td>0'-0&quot;</td>
</tr>
</tbody>
</table>

NOTES:
1. COORDINATE OPENING SIZES AND ANCHOR BOLTS WITH EQUIPMENT MANUFACTURERS.
2. CENTRIFUGE WET WT + 4500 LBS EACH (MAXIMUM)

RECORD DRAWINGS

PREPARED BY: L.E.F.  DATE: 7-28-1987

CENTRIFUGE PLATFORM FOUNDATION AND TOP PLANS

32140-REV  28-JUL-1987  1107/53
**EQUIPMENT BASE NOTES**

1. **Pad Size:** Shall be minimum indicated or as shown on the Plans or as indicated by the Engineer and Approved by the Manufacturer.

2. **Size, Shape, Type, Location, and Thread Projection:** Of the Anchor Bolts shall be determined by the Manufacturer and shall be as noted and shown in the Plans. Anchor Bolts shall be embedded in the Foundation concrete. The Anchor Bolts shall be located at the specified location on the Footing Base. See Plans.

3. **Anchor Bolt Sleeves Shall Be Used to Provide the anchor bolt sleeve shall be used to provide the minimum joint movement in all directions. The minimum sleeve length shall be 1.5 times the bolt diameter. Sleeves shall be filled with non-shrink cement.**

4. **Equipment Base Skirt:** Shall have a minimum internal diameter greater than bolt diameter and a maximum internal diameter less than bolt diameter. Sleeves shall be filled with non-shrink cement.

5. **Equipment Base Shall Be Installed Level, Unless Specified Otherwise.**

6. **Type of Detail:** Shall be used only for Slabs on Grade and at Grates. The order of Detail shall be installed prior to the exact location and size of the pad as shown.

7. **Wedges or Shims Shall Be Used to Support the Base While the Equipment Is Placed and the Temporary Leveling Base Shown in Figure 6.04.06.02 A shall be backed off. If left in place, the Wedges or Shims Shall be Exposed to View.**

8. **Height of Pad shall be Minimum Required for Anchor Bolt Clearance to Keep Anchor Bolt Out of Slab As Shown in Table B.**

**EQUIPMENT PAD**

- **AB Dia.**
- **Max Pad Kit**
- **Min Pad Kit**

**ELEVATION**

- **Plan**
- **Top**
- **Side**

**RECORD DRAWINGS**

- **Type A**
- **Type B**
- **Type C**
- **Type D**
- **Type E**

**NOTES:**

- **Type Protection for Disassembly Metals and Concrete Perimetric Cuts.**

**MACHINERY ANCHOR BOLT**

- **Top of Equipment Pad**
- **Bottom of Equipment Pad**
- **Mounting Surface to 1/8" Angle"**

**ELEVATION**

- **Plan**
- **Top**
- **Side**

**TWO-RAIL HANDRAIL**

- **Post Anchorage**

**HANDRAIL POST ANCHORAGE**

- **Type A**

**REUSE OF DOCUMENTS**

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CONTROL PANEL FP-9-1

NOTES:
1. THE PANEL DIMENSIONS AND LAYOUT FOR GUIDANCE ONLY. CONTRACTOR MAY CHANGE DIMENSIONS TO SUIT DETAIL DESIGN.
2. PANEL SHALL BE NEMA 3, PAINTED STEEL.
3. PROVIDE MEANS TO DISPERSE THE UPS REACT FROM THE PANEL.

CONTINUOUS HINGE

NAMEPLATE WITH INSTALLATION INSTRUCTIONS

FOR MOUNTING SEE FIGURE

UPS NOTE 3

CONCRETE FLOOR

CONTROL PANEL FP-10-2

NOTES:
1. THE PANEL DIMENSIONS AND LAYOUT FOR GUIDANCE ONLY. CONTRACTOR MAY CHANGE DIMENSIONS TO SUIT DETAIL DESIGN.
2. OPERATOR DATA ACCESS PANEL, 20-24

CONTINUOUS HINGE

NOTE 3

2/10 RACKS

CONCRETE FLOOR

CONTROL PANEL FP-8-1

NOTE:
1. THE PANEL DIMENSIONS AND LAYOUT FOR GUIDANCE ONLY. CONTRACTOR MAY CHANGE DIMENSIONS TO SUIT DETAIL DESIGN.
2. PANEL SHALL BE NEMA 43, 2002

CONTINUOUS HINGE

FOR MOUNTING SEE FIGURE

CONCRETE FLOOR

RECORD DRAWINGS

INSTRUMENTATION AND CONTROL

ELEVATION DIAGRAM

MONTPELY WASTEWATER TREATMENT FACILITY MODIFICATIONS
JACKSONVILLE, FLORIDA

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PRINCESS DRAWN BY: L.G. DATE: 7-26-99

MONTEPELY WASTEWATER TREATMENT FACILITY MODIFICATIONS
JACKSONVILLE, FLORIDA

ELEVATION DIAGRAM

INSTRUMENTATION AND CONTROL

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PRINCESS DRAWN BY: L.G. DATE: 7-26-99
TYPICAL CONTROL PANEL
POWER DISTRIBUTION DIAGRAM

TEMPERATURE, LEVEL INTERLOCKS
FOR FP-6-1 (EFFLUENT PUMPS)

LEVEL INTERLOCKS FOR FP-2-1
(INFLUENT PUMPS)

RECORD DRAWINGS

GENERAL NOTES:
1. CONTRACTOR SHALL USE THESE TYPICAL DIAGRAMS AS GUIDELINES FOR PREPARING DETAIL WIRING DIAGRAMS FOR ALL PLC 1/0 POINTS, NEW CONTROL PANELS, AND RELAY CONTROL, LOCKS.
2. UPS REQUIRED FOR FP-2-1 ONLY.
3. PROVIDE ONE BREAKER FOR EACH 4 WIRE TRANSFORMER.

INSTRUMENTATION AND CONTROL
TYPICAL WIRING DIAGRAM
FOR CONTROL PANELS
SH 1 OF 2
WALL MOUNTED INSTRUMENT INSTALLATION

CODE TO WALL WITH SET WEDGE ANCHORS AS NECESSARY

FLOOR SLAB

NOTES:
1. INSTALLATION FOR CONCRETE WALLS, SHOWING IN MUL WALL USE SETTLE BASES IN UNDRAFTED CELLS AND SET WEDGE ANCHORS IN GRANTED CELLS.
2. DRAINAGE REQUIRED FOR OUTDOOR INSTALLATIONS.

WIRING DIAGRAM

TYPE "A" SURGE SUPPRESSOR INSTALLATION 2-WIRE INSTRUMENT

WIRING DIAGRAM

TYPE "B" SURGE SUPPRESSOR INSTALLATION 4-WIRE INSTRUMENT

RECORD DRAWINGS

INSTRUMENTATION AND CONTROL

STANDARD DETAILS
RECORD DRAWINGS

1. AFTER THE NEW INSTALLATION IS COMPLETE AND NEW CABLE IS INSTALLED UP TO THE EXISTING MCC, DISCONNECT EXISTING CABLE AS LOCATIONS MARKED WITH AN "X" AND CONNECT NEW CABLES. POWER OFF EXISTING 300A GENERATOR AND DESIGNER'S LOW VOLTAGE TOD alk CORDS FROM MCC BEFORE MAKING CONNECTIONS. COORDINATE ALL WORK WITH THE OWNER AND L.E.A.

2. FLC CONTROL SHALL BE PROVIDED UNDER PICS CONDITION.

3. BRING GROUNDED NEUTRAL CONDUCTORS INTO SWITCHGEAR AND CONNECT TO GROUND BUS TO SATISFY SERVICE ENTRANCE REQUIREMENTS.
1. PROVIDE ALL, STAND AND STUD UP AND CAP STAND COLUMN AT FOR FUTURE PUMP, COORDINATE EXACT LOCATION IN FIELD.

2. THE PUMP STATION INTERIOR IS CLASSIFIED AS A HAZARDOUS
CLASS 1, DIVISION 2 AREA. PROVIDE SUITABLE WIRING
METHODS AND MATERIALS.

3. ANY AREA THAT IS 15 FT. FROM THE PUMP CONTAINMENT AREA AND
15 FT. ABOVE THE CONCRETE SLABS IS CLASSIFIED AS A HAZARDOUS
CLASS 1, DIVISION 2 AREA. PROVIDE SUITABLE WIRING
METHODS AND MATERIALS.

4. CONTRACTOR TO BOND ALL MOTOR FRAMES TO GROUND GRID (TYPICAL).

5. THE BOTTOM OF PP-1-1 AND PP-2-1 SHALL BE INSTALLED AT LEAST 12
ABOVE CONCRETE SLABS.

RECORD DRAWINGS

REVIEWED BY:

APPROVED BY:

MONTEREY WASTEWATER TREATMENT FACILITY MODIFICATIONS JACKSONVILLE, FLORIDA

INFLUENT SCREENING/PUMP STATION PROCESS PLAN

E-9
RISER DIAGRAM

SEE DRAWINGS F-8
FOR METER LOCATIONS
NEW MCC-3 (SLUDGE DEWATERING) ONE LINE DIAGRAM

RECORD DRAWINGS

FIRST ROW: ALL 2" CONDUITS
SECOND ROW: ALL 1" CONDUITS
THIRD ROW: FIRST 2-2"G; 1-1"G; 2-1/2"

FRONT ELEVATION

REAR ELEVATION (FUTURE)