EAST BAY REGIONAL PARK DISTRICT

COYOTE HILLS REGIONAL PARK

COYOTE HILLS WELL REPLACEMENT PROJECT

8000 PATTERSON RANCH ROAD, CITY OF FREMONT, ALAMEDA COUNTY, CA

FOR THE CITY OF FREMONT - BUILDING PERMIT FOR ELECTRICAL WORK

EAST BAY REGIONAL PARK DISTRICT

COYOTE HILLS REGIONAL PARK

COYOTE HILLS WELL REPLACEMENT PROJECT

8000 PATTERSON RANCH ROAD, CITY OF FREMONT, ALAMEDA COUNTY, CA

FOR THE CITY OF FREMONT - BUILDING PERMIT FOR ELECTRICAL WORK

EAST BAY REGIONAL PARK DISTRICT

COYOTE HILLS REGIONAL PARK

COYOTE HILLS WELL REPLACEMENT PROJECT

8000 PATTERSON RANCH ROAD, CITY OF FREMONT, ALAMEDA COUNTY, CA

FOR THE CITY OF FREMONT - BUILDING PERMIT FOR ELECTRICAL WORK
PROJECT ENGINEER

APPROVED: 13

SCALE: 1” = 20’

DATE: JUL 27, 2020

LEGEND, SYMBOLS AND ABBREVIATIONS

COYOTE HILLS WELL REPLACEMENT PROJECT

2352-0020  |   PERMIT SET SUBMITTAL JAN. 27, 2020

Sheet 1 of 2

EAST BAY REGIONAL PARK DISTRICT

www.eastbayparks.org  510-881-6700
1. THE CONTRACTOR SHALL NOT CLOSE ANY ROAD, STREET, OR HIGHWAY TO THE PUBLIC PRIOR TO THE MOBILIZATION OF EQUIPMENT AND MATERIALS.

2. THE CONTRACTOR SHALL NOTIFY THE DISTRICT REPRESENTATIVE A MINIMUM OF 48 HOURS IN ADVANCE OF ANY WORK.

3. THE CONTRACTOR SHALL BE RESPONSIBLE FOR ANY FIELD CHANGES MADE WITHOUT THE EXPRESS WRITTEN AUTHORIZATION OF THE DISTRICT.

4. THE CONTRACTOR SHALL BE RESPONSIBLE FOR ALL WORK COMPLETED IN THE PROJECT SITE.

5. THE CONTRACTOR SHALL NOTIFY THE DISTRICT REPRESENTATIVE OF ALL CHANGES MADE IN THE PROJECT SITE.

6. NEITHER THE DISTRICT NOR THE ENGINEER MAKE ANY WARRANTY OR GUARANTEE AS TO THE QUALITY, WORKMANSHIP, OR COMPLETION OF THE CONTRACTUAL WORK.

7. CONTRACTOR SHALL POTHOLE TO VERIFY THE EXACT LOCATION AND DEPTHS OF EXISTING UTILITY LINES, TO PROVIDE A STYROFOAM PAD (12"X12"X3") BETWEEN PIPES FOR ANY CLEARANCE LESS THAN 12".

8. THE CONTRACTOR SHALL BE RESTRICTED TO THE USE OF HIGHWAY LEGAL SIZE TRUCKS AND TRAILERS AND OTHER EQUIPMENT OPERATING ON THE ACCESS ROADS, UNLESS OTHERWISE APPROVED BY THE ENGINEER.

9. THE CONTRACTOR SHALL BE RESTRICTED TO THE USE OF HIGHWAY LEGAL SIZE TRUCKS AND TRAILERS AND OTHER EQUIPMENT OPERATING ON THE ACCESS ROADS, UNLESS OTHERWISE APPROVED BY THE ENGINEER.

10. ALL TEES, CROSSES AND BENDS SHALL INCLUDE THRUST BLOCKS WHERE NOT OTHERWISE MENTIONED.

11. PRIOR TO THE COMMENCEMENT OF CONSTRUCTION, THE CONTRACTOR SHALL NOTIFY THE DISTRICT REPRESENTATIVE OF ALL ENTRANCES AND EXITS TO THE PROJECT SITE.

12. THE CONTRACTOR SHALL BE RESTRICTED TO THE USE OF HIGHWAY LEGAL SIZE TRUCKS AND TRAILERS AND OTHER EQUIPMENT OPERATING ON THE ACCESS ROADS, UNLESS OTHERWISE APPROVED BY THE ENGINEER.

13. THE CONTRACTOR SHALL BE RESTRICTED TO THE USE OF HIGHWAY LEGAL SIZE TRUCKS AND TRAILERS AND OTHER EQUIPMENT OPERATING ON THE ACCESS ROADS, UNLESS OTHERWISE APPROVED BY THE ENGINEER.

14. THE CONTRACTOR SHALL BE RESTRICTED TO THE USE OF HIGHWAY LEGAL SIZE TRUCKS AND TRAILERS AND OTHER EQUIPMENT OPERATING ON THE ACCESS ROADS, UNLESS OTHERWISE APPROVED BY THE ENGINEER.

15. THE CONTRACTOR SHALL BE RESTRICTED TO THE USE OF HIGHWAY LEGAL SIZE TRUCKS AND TRAILERS AND OTHER EQUIPMENT OPERATING ON THE ACCESS ROADS, UNLESS OTHERWISE APPROVED BY THE ENGINEER.

16. THE CONTRACTOR SHALL BE RESTRICTED TO THE USE OF HIGHWAY LEGAL SIZE TRUCKS AND TRAILERS AND OTHER EQUIPMENT OPERATING ON THE ACCESS ROADS, UNLESS OTHERWISE APPROVED BY THE ENGINEER.

17. THE CONTRACTOR SHALL BE RESTRICTED TO THE USE OF HIGHWAY LEGAL SIZE TRUCKS AND TRAILERS AND OTHER EQUIPMENT OPERATING ON THE ACCESS ROADS, UNLESS OTHERWISE APPROVED BY THE ENGINEER.

18. THE CONTRACTOR SHALL BE RESTRICTED TO THE USE OF HIGHWAY LEGAL SIZE TRUCKS AND TRAILERS AND OTHER EQUIPMENT OPERATING ON THE ACCESS ROADS, UNLESS OTHERWISE APPROVED BY THE ENGINEER.

19. THE CONTRACTOR SHALL BE RESTRICTED TO THE USE OF HIGHWAY LEGAL SIZE TRUCKS AND TRAILERS AND OTHER EQUIPMENT OPERATING ON THE ACCESS ROADS, UNLESS OTHERWISE APPROVED BY THE ENGINEER.

20. THE CONTRACTOR SHALL BE RESTRICTED TO THE USE OF HIGHWAY LEGAL SIZE TRUCKS AND TRAILERS AND OTHER EQUIPMENT OPERATING ON THE ACCESS ROADS, UNLESS OTHERWISE APPROVED BY THE ENGINEER.

21. THE CONTRACTOR SHALL BE RESTRICTED TO THE USE OF HIGHWAY LEGAL SIZE TRUCKS AND TRAILERS AND OTHER EQUIPMENT OPERATING ON THE ACCESS ROADS, UNLESS OTHERWISE APPROVED BY THE ENGINEER.

22. THE CONTRACTOR SHALL BE RESTRICTED TO THE USE OF HIGHWAY LEGAL SIZE TRUCKS AND TRAILERS AND OTHER EQUIPMENT OPERATING ON THE ACCESS ROADS, UNLESS OTHERWISE APPROVED BY THE ENGINEER.
NOTE 1: INSTALL NEW ELECTRICAL CONDUIT PER UTILITY COMPANY STANDARDS.
NOTE 2: SEE TABLE 1 ON SHEET E601 FOR DIVISION OF RESPONSIBILITY BETWEEN CONTRACTOR AND UTILITY COMPANY (PG&E).
NOTE 3: CONTRACTOR TO COORDINATE SERVICE DISCONNECT WITH UTILITY COMPANY.
NOTE 4: EXISTING PATTERSON WELL TO BE DESTROYED PER ACWD PERMIT REQUIREMENTS.
NOTE 5: ALL DIMENSIONS SHOWN ARE APPROXIMATE.
NOTE 6: CONTRACTOR TO FOLLOW CITY OF FREMONT WASTE HANDLING GUIDELINES.

REMOVE AND SALVAGE 3X VALVES
CONTRACTOR TO DELIVER TO DISTRICT

REMOVE AND SALVAGE (E) JUNCTION BOX AND SMALL CONDUIT

REMOVE AND SALVAGE (E) STEEL PIPING AND FITTINGS

REMOVE AND SALVAGE (E) ELECTRICAL PEDESTAL, SEE NOTE 6

REMOVE AND SALVAGE (E) WELL PEDESTAL

CUT (E) PIPE AND INSTALL REMOVABLE COVER

REMOVE AND SALVAGE ABOVE GROUND PIPING

REMOVE AND WASTE (E) PAD, SEE NOTE 6

REMOVE AND WASTE (E) STEEL PIPING

REMOVE AND WASTE (E) JUNCTION BOX AND SMALL CONDUIT

REMOVE AND WASTE (E) ELECTRICAL PEDESTAL, SEE NOTE 6

REMOVE AND WASTE (E) WELL PEDESTAL

ABOVE GROUND PIPING DEMOLITION

SITE IMPROVEMENTS AND DEMOLITION PLAN
COYOTE HILLS WELL REPLACEMENT PROJECT
COYOTE HILLS REGIONAL PARK
ALAMEDA COUNTY, CA

ORIGINAL SCALE IN INCHES FOR REDUCED PLANS

1"=15'

KELEDFEN SINNECK NEUDECK

EAST BAY REGIONAL PARK DISTRICT
2250 PINEHURST OAKS COURT, OAKLAND, CA 94609 www.ebrpd.org 510.238.2757

NOTE 1: INSTALL NEW ELECTRICAL CONDUIT PER UTILITY COMPANY STANDARDS.
NOTE 2: SEE TABLE 1 ON SHEET E601 FOR DIVISION OF RESPONSIBILITY BETWEEN CONTRACTOR AND UTILITY COMPANY (PG&E).
NOTE 3: CONTRACTOR TO COORDINATE SERVICE DISCONNECT WITH UTILITY COMPANY.
NOTE 4: EXISTING PATTERSON WELL TO BE DESTROYED PER ACWD PERMIT REQUIREMENTS.
NOTE 5: ALL DIMENSIONS SHOWN ARE APPROXIMATE.
NOTE 6: CONTRACTOR TO FOLLOW CITY OF FREMONT WASTE HANDLING GUIDELINES.
1. ACTUAL DEPTH AND LOCATION OF SCREEN INTERVAL AND TOTAL WELL DEPTH TO BE CONFIRMED BY LITHOLOGY AND GEOPHYSICAL LOGGING.
2. SEE DETAIL 1, SHEET C-202 FOR CENTRALIZING FIN DETAIL.
3. SEE DETAIL 3, SHEET C-202 FOR CASING GUIDE DETAIL.

NEW WATER SUPPLY WELL VERTICAL TURBINE PUMP SUCTION SETTING

NEW WATER SUPPLY WELL DESIGN ELEVATION

EAST BAY REGIONAL PARK DISTRICT

EAST BAY REGIONAL PARK DISTRICT

WATER SUPPLY WELL DESIGN AND EXISTING WELL DESTRUCTION

COYOTE HILLS WELL REPLACEMENT PROJECT

ALAMEDA COUNTY, CA

2352-0020  |   PERMIT SET SUBMITTAL JAN. 27, 2020

COYOTE HILLS REGIONAL PARK

WATER SUPPLY WELL DESIGN AND EXISTING WELL DESTRUCTION

COYOTE HILLS REGIONAL PARK

ALAMEDA COUNTY, CA

2352-0020  |   PERMIT SET SUBMITTAL JAN. 27, 2020

COYOTE HILLS REGIONAL PARK

ALAMEDA COUNTY, CA

2352-0020  |   PERMIT SET SUBMITTAL JAN. 27, 2020
1. TERMINATE 14" O.D. MILD STEEL CASING TO APPROXIMATELY 1/2" ABOVE TOP OF CONCRETE PEDESTAL.
2. CONTRACTOR SHALL COORDINATE LOCATION OF GRAVEL FILL PIPE AND 3" VENT/SOUNDING TUBE WITH WELL DISCHARGE AND ELECTRICAL AND PROVIDE 24" CLEARANCE ABOVE GROUND. CONTRACTOR MAY RELOCATE GRAVEL FILL PIPE IF NECESSARY.
3. WELD 3" CASING VENT TO CASING WITH FULL PENETRATION WATER TIGHT WELDS.

**NOTES:**

1. TERMINATE 14" O.D. MILD STEEL CASING TO APPROXIMATELY 1/2" ABOVE TOP OF CONCRETE PEDESTAL.
2. CONTRACTOR SHALL COORDINATE LOCATION OF GRAVEL FILL PIPE AND 3" VENT/SOUNDING TUBE WITH WELL DISCHARGE AND ELECTRICAL AND PROVIDE 24" CLEARANCE ABOVE GROUND. CONTRACTOR MAY RELOCATE GRAVEL FILL PIPE IF NECESSARY.
3. WELD 3" CASING VENT TO CASING WITH FULL PENETRATION WATER TIGHT WELDS.

**FIELD WELD (TYP):**

- **TYPE 316 SS**
- **BULL NOSE**
- **MIN 0.375"**
- **±24°**
- **45° TYP**

**FIELD WELD AS FOLLOWS:**

- A. **TYPE 316 SS TO TYPE 316 SS** USE E316 L ELECTRODE
- B. **TYPE 316 SS TO MILD STEEL** USE E 312 OR E 309 ELECTRODES

**DIMENSIONS:**

- **14" Ø X 0.3125"**
- **MILD STEEL WELL CASING**
- **MIN 5" X 0.375"**
- **STEEL WELDING COLLAR**
- **14" Ø X 0.4375"**
- **MILD STEEL WELL CASING**
- **MIN 5" X 0.375"**
- **TYPE 316 SS WELDING COLLAR**
- **14" Ø X 0.3125"**
- **TYPE 316 SS WELL CASING**

**CHAMFER (TYP):**

- **BLANK CASING CENTRALIZER**
- **WELL SCREEN CENTRALIZERS**
- **BOTTOM (BULL NOSE) CENTRALIZER**
- **2" X 3/8" CENTRALIZER**
- **(4 SPACED EVENLY AROUND THE CIRCUMFERENCE, TYP)**
- **MATERIAL TO MATCH CASING MATERIAL**
- **FIELD WELD AS FOLLOWS:**
  - A. **TYPE 316 SS TO TYPE 316 SS** USE E316 L ELECTRODE
  - B. **TYPE 316 SS TO MILD STEEL** USE E 312 OR E 309 ELECTRODES

**SCREEN WELD RING:**

- **WELDING COLLAR**
- **SCREEN WELD RING**
- **4" TYP**
- **FIELD WELD (TYP):**
  - **TYPE 316 SS**
  - **BULL NOSE**
  - **MIN 0.375"**
  - **±24°**
  - **45° TYP**

**CONCRETE MONOLITHIC POUR:**

- **EDGE OF 36" BOREHOLE**
- **(TYP BOTH SIDES)**
- **3" Ø GRAVEL FILL TUBE**
- **68° FROM NORTH**
- **0.5' EXISTING GRADE**

**WELL PEDESTAL- PLAN VIEW:**

- **30" Ø CONDUCTOR CASING**
- **14" Ø MILD STEEL WELL CASING**
- **248° FROM NORTH**
- **STEEL PLATE**
- **0.375" X 6" LONG**
- **TYP OF 4**

**WELL PEDESTAL- SECTION VIEW:**

- **3" Ø GRAVEL FILL PIPE**
- **248° FROM NORTH**
- **0.5' EXISTING GRADE**

**SS ANCHOR BOLT PER PUMP MANUFACTURER**

- **CONCRETE MONOLITHIC POUR**
- **GROUT STEEL SOLE PLATE WITH NON-SHRINK GROUT**
- **PER SPECIFICATIONS AND PUMP MANUFACTURER**

**WELL PEDESTAL DETAIL:**

- **EDGE OF 36" BOREHOLE**
- **(TYP BOTH SIDES)**
- **3" Ø GRAVEL FILL TUBE**
- **24"**
- **21"**
- **GROUT STEEL SOLE PLATE**
- **2'**
- **1'-9"**
- **#4 @ 6" HOOPS PROVIDE MIN 2" COVER (TYP)**
- **#4 @ 12" VERT**

**NOTES:**

1. TERMINATE 14" O.D. MILD STEEL CASING TO APPROXIMATELY 1/2" ABOVE TOP OF CONCRETE PEDESTAL.
2. CONTRACTOR SHALL COORDINATE LOCATION OF GRAVEL FILL PIPE AND 3" VENT/SOUNDING TUBE WITH WELL DISCHARGE AND ELECTRICAL AND PROVIDE 24" CLEARANCE ABOVE GROUND. CONTRACTOR MAY RELOCATE GRAVEL FILL PIPE IF NECESSARY.
3. WELD 3" CASING VENT TO CASING WITH FULL PENETRATION WATER TIGHT WELDS.

**WELL SCREEN- PLAN VIEW:**

- **3" Ø SOUNDING TUBE**
- **3" Ø CASING VENT**
- **24" FROM NORTH**
- **0.375" X 6" LONG**
- **TYP OF 4**
- **3" GRAVEL FILL PIPE**
- **68° FROM NORTH**
- **0.5' EXISTING GRADE**

**WELL SCREEN- SECTION VIEW:**

- **3" Ø SOUNDING TUBE**
- **3" Ø CASING VENT**
- **24" FROM NORTH**
- **0.375" X 6" LONG**
- **TYP OF 4**
- **3" GRAVEL FILL PIPE**
- **68° FROM NORTH**
- **0.5' EXISTING GRADE**

**WELL PEDESTAL- PLAN VIEW:**

- **30" Ø CONDUCTOR CASING**
- **14" Ø MILD STEEL WELL CASING**
- **4.3' PEDESTAL WIDTH (TYP ALL SIDES)**
- **3' MIN.**
- **SS ANCHOR BOLT PER PUMP MANUFACTURER**

**WELL PEDESTAL- SECTION VIEW:**

- **EDGE OF 36" BOREHOLE**
- **(TYP BOTH SIDES)**
- **3" Ø GRAVEL FILL TUBE**
- **24"**
- **21"**
- **GROUT STEEL SOLE PLATE**
- **2'**
- **1'-9"**
- **#4 @ 6" HOOPS PROVIDE MIN 2" COVER (TYP)**
- **#4 @ 12" VERT**

**NOTE:**

1. CONCRETE PEDESTAL REBAR NOT SHOWN IN THIS VIEW
NOTES:

1. NATIVE SUBGRADE SOIL COMPACTION: SCARIFY TO DEPTH OF 8"; RE-COMPACT TO 95% MIN RELATIVE COMPACTION

2. AB ACCESS ROAD DETAIL N.T.S.

2% VARIES

SEE NOTE 1, THIS DETAIL

NOTES:

1. GALVANIZE IN ACCORDANCE WITH THE SPECIFICATIONS.

2. WHERE SS IS INDICATED ON THE DRAWINGS, FABRICATE SUPPORT FROM TYPE 304 OR 316 STAINLESS STEEL.

3. ANCHORING SHALL BE CONSTRUCTED USING 5/8" SS ALL THREAD WITH MINIMUM EMBEDMENT OF 4" SET IN SIMPSON STRONG TIE SET-XP EPOXY.

ADJUSTABLE PIPE SADDLE SUPPORT SCHEDULE DIMENSIONS IN INCHES

<table>
<thead>
<tr>
<th>SIDE OF SUPPORTED PIPE</th>
<th>PIPE SIZE &quot;A&quot;</th>
<th>PIPE SIZE &quot;B&quot;</th>
<th>&quot;C&quot;</th>
<th>&quot;D&quot; MINIMUM</th>
<th>&quot;D&quot; MAXIMUM</th>
</tr>
</thead>
<tbody>
<tr>
<td>2&quot;</td>
<td>2-1/4</td>
<td>2-1/2</td>
<td>1&quot;</td>
<td>2-3/4</td>
<td>3-1/2</td>
</tr>
<tr>
<td>1-1/2</td>
<td>2-1/4</td>
<td>2-1/2</td>
<td>1&quot;</td>
<td>2-3/4</td>
<td>3-1/2</td>
</tr>
<tr>
<td>1-1/4</td>
<td>2-1/4</td>
<td>2-1/2</td>
<td>1&quot;</td>
<td>2-3/4</td>
<td>3-1/2</td>
</tr>
<tr>
<td>4&quot;</td>
<td>2-1/4</td>
<td>2-1/2</td>
<td>1&quot;</td>
<td>2-3/4</td>
<td>3-1/2</td>
</tr>
<tr>
<td>6&quot;</td>
<td>2-1/4</td>
<td>2-1/2</td>
<td>1&quot;</td>
<td>2-3/4</td>
<td>3-1/2</td>
</tr>
<tr>
<td>8&quot;</td>
<td>2-1/4</td>
<td>2-1/2</td>
<td>1&quot;</td>
<td>2-3/4</td>
<td>3-1/2</td>
</tr>
</tbody>
</table>

NOTE: USE 2 1/2" SUPPORTS FOR PIPES LESS THAN 2 1/2"Ø
**CONTINUOUS GROUNDING ELECTRODE MUST EQUAL 20'-0"**

**ANCHOR DETAIL**

- **1/2" SS ANCHOR (TYP)**
- **CLASS A CONCRETE**
- **#2/0 BARE STANDARD ELECTRODE GROUND SURROUNDED BY CONCRETE (3"-MIN)**

**ENCLOSURE, CONTROL PANEL OR PEDESTAL**

- **1/2" Pvc Coated Cast Conduit Body To Be Used As Junction Box**
- **Liquid Tight Flexible conduit and Connectors**

**PEDESTAL MOUNTING DETAIL**

- **1" PVC Conduit**
- **CONNECT TO JUNCTION BOX**

**PEDESTAL SWITCHBOARD CONCRETE PAD FINISHED GRADE**

- **1" PVC CONDUIT**
- **#2/0 BARE CU GROUND ELECTRODE**

**TRENCH FILL TABLE**

<table>
<thead>
<tr>
<th>CRITERIA</th>
<th>A</th>
<th>B</th>
</tr>
</thead>
<tbody>
<tr>
<td>ROAD CONDUIT</td>
<td>7-2/8</td>
<td>7-3/4</td>
</tr>
<tr>
<td>EQUIPMENT CONDUIT</td>
<td>5-1/2</td>
<td>5-7/8</td>
</tr>
</tbody>
</table>

**NOTES:**

1. THIS DETAIL IS APPLICABLE TO STABLE SOIL CONDITIONS ONLY.
2. RELATIVE COMPACTION OF MATERIALS SHALL BE TESTED IN ACCORDANCE WITH THE SPECIFICATIONS.
3. INSTALL TRACER WIRE - TRACER WIRE SHALL BE MINIMUM #10 AWG SOLID COPPER WIRE WITH 45 MILS OF HIGH MOLECULAR WEIGHT POLYETHYLENE (HMWPE) INSULATION, UL LISTED, RATED FOR DIRECT BURIAL, COLOR PER AWPA UNIFORM COLOR CODE FOR MARKING UNDERGROUND UTILITIES AND INSTALLED WITH ALL PIPE INCLUDING PVC, HDPE, AND DUCTILE IRON PIPE. (SEE TRACER WIRE SPLICE DETAIL)
4. COMPACTION BY MECHANICAL MEANS ONLY, SEE TRENCH FILL TABLE FOR DEPTH OF FILL.
PROJECT ENGINEER

PROVIDE SECONDARY CONDUIT PER PG&E (3"C W/ PULL ROPE)

1. ALL WORK PERFORMED BY CONTRACTOR UNDER THIS SECTION MUST CONFORM TO THE UTILITY COMPANY’S STANDARDS. IF A CONFLICT BETWEEN THE UTILITY STANDARDS AND DETAILS UTILITY NOTES EXIST, THE UTILITY STANDARDS REQUIREMENTS SHALL TAKE PRECEDENCE.

2. CONTRACTOR SHALL REVIEW UTILITY ENGINEERED DRAWINGS PRIOR TO COMMENCING WORK.

TABLE 1 - TYP. UTILITY DIVISION OF RESPONSIBILITY

<table>
<thead>
<tr>
<th>RESPONSIBILITY</th>
<th>CONTRACTOR</th>
<th>UTILITY CO.</th>
</tr>
</thead>
<tbody>
<tr>
<td>SECONDARY CONDUCTORS</td>
<td>X</td>
<td></td>
</tr>
<tr>
<td>TRANSFORMER CONNECTION</td>
<td></td>
<td>X</td>
</tr>
<tr>
<td>UTILITY METER</td>
<td></td>
<td>X</td>
</tr>
<tr>
<td>UTILITY METER ENCLOSURE</td>
<td>X</td>
<td></td>
</tr>
<tr>
<td>CURRENT AND VOLTAGE kV</td>
<td></td>
<td>X</td>
</tr>
</tbody>
</table>

X - INDICATES RESPONSIBILITY

NOTES

1. ALL WORK PERFORMED BY CONTRACTOR UNDER THIS SECTION MUST CONFORM TO THE UTILITY COMPANY’S STANDARDS. IF A CONFLICT BETWEEN THE UTILITY STANDARDS AND DETAILS SHOWN ON THESE DRAWINGS EXIST, THE UTILITY STANDARDS REQUIREMENTS SHALL TAKE PRECEDENCE.

2. CONTRACTOR SHALL REVIEW UTILITY ENGINEERED DRAWINGS PRIOR TO COMMENCING WORK FOR THE UTILITY SERVICE.

TABLE 2 - PANELBOARD

<table>
<thead>
<tr>
<th>PANELBOARD</th>
<th>VOLTAGE</th>
<th>CURRENT (A)</th>
</tr>
</thead>
<tbody>
<tr>
<td>PANEL BOARD</td>
<td>277/480V</td>
<td>30 KAIC</td>
</tr>
</tbody>
</table>

TABLE 3 - LOAD CALCULATION

<table>
<thead>
<tr>
<th>LOAD</th>
<th>KVA</th>
<th>CB</th>
</tr>
</thead>
<tbody>
<tr>
<td>PUMP STATION PEDESTAL</td>
<td>60</td>
<td></td>
</tr>
<tr>
<td>PANEL BOARD</td>
<td>7</td>
<td></td>
</tr>
<tr>
<td>TOTAL LOAD</td>
<td>200</td>
<td>60</td>
</tr>
</tbody>
</table>

TABLE 4 - NAMEPLATE SCHEDULE

<table>
<thead>
<tr>
<th>ID</th>
<th>MEASURE</th>
<th>BRANCHED</th>
<th>NHI</th>
<th>NTS</th>
</tr>
</thead>
<tbody>
<tr>
<td>0 1 2 3</td>
<td></td>
<td></td>
<td></td>
<td></td>
</tr>
</tbody>
</table>

CONTROL NOTES

1. IN AUTO, PROVIDE TIMER CONTROL. TIMER SHALL BE A SPRING TYPE, 0-10 HRS WITH KNOB AND PLACARD ON THE DEADFRONT DOOR OF THE MOTOR CONTROLLER ENCLOSURE.

2. VFD SPEED SHALL BE SET BY A POTENTIOMETER. IN MANUAL, WHEN VALVES ARE OPEN, THE MOTOR WILL RAMP UP TO THE SPEED LIMIT. THE POTENTIOMETER SHALL INCLUDE A RANGE BAND AND A RANGE LIMIT ON THE DEADFRONT DOOR OF THE MOTOR CONTROLLER ENCLOSURE.

3. IN THE AUTO MODE, THE CONTROLS SHALL INCLUDE A HIGH-HIGH PRESSURE CUTOUT WITH AN ADJUSTABLE DEADBAND. THE PRESSURE SWITCH SHALL BE A HIGH-HIGH PRESSURE CUTOUT WITH AN ADJUSTABLE DEADBAND.

4. FLOWMETER PER CONTRACT SPECIFICATIONS.