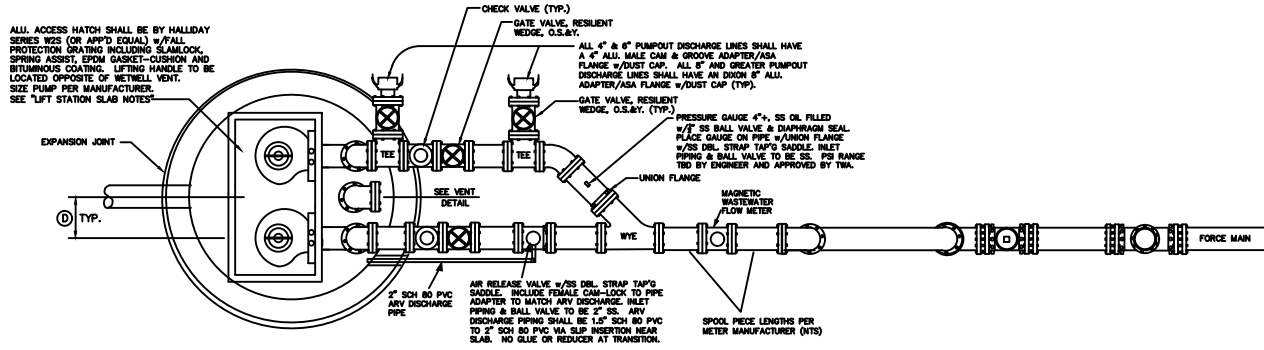
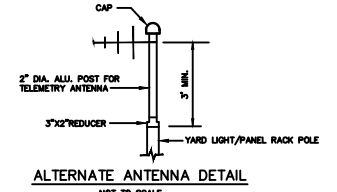


NOTES:

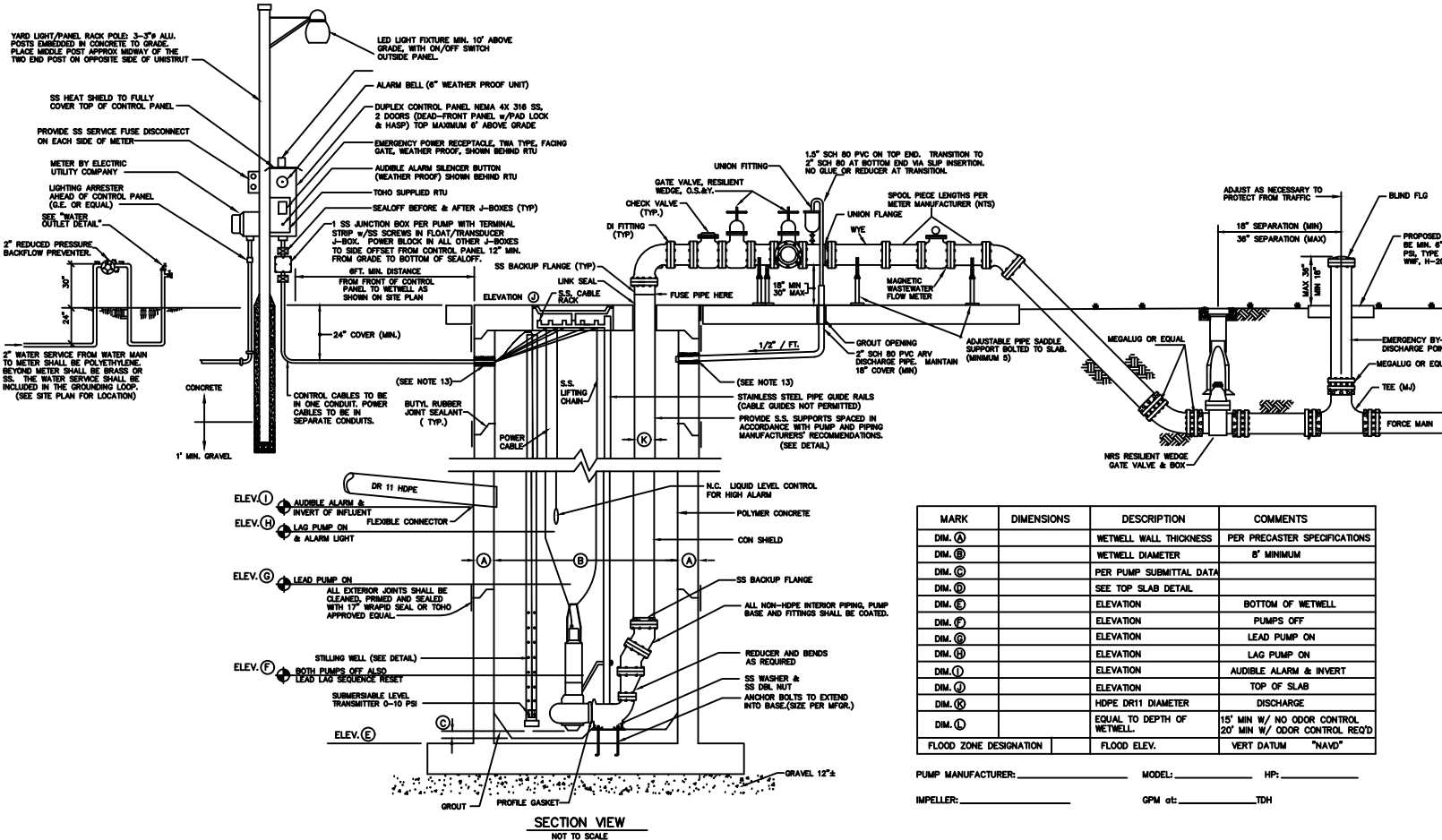
1. ALL ITEMS NOT SPECIFIED ON THESE DETAIL SHEETS SHALL MEET TOHO STANDARDS AND SPECIFICATIONS.
2. ALL LIFT STATION NET WALLS SHALL BE PRECAST POLYMER CONCRETE.
3. NO LIFTING HOLES ARE PERMITTED THRU WALLS OR TOP SLAB.
4. ALL ABOVE GROUND FORCE MAIN PIPING SHALL BE FLANGED DUCTILE IRON.
5. ALL TAPS SHALL BE STAINLESS STEEL TAPPING SADDLES. ALL CONDUIT SHALL BE RIGID ALUMINUM EXCEPT FOR THE CONDUIT FROM THE TRANSFORMER TO THE 2ND DISCONNECT AFTER THE METER.
6. FINISHED GRADE INSIDE THE FENCED AREA SHALL BE A MINIMUM OF 12" ABOVE THE 100 YEAR FLOOD AND 6" ABOVE THE GROUND ELEVATION AT ANY FENCE POST.
7. ALL PENETRATIONS, INTERIOR OPENINGS, CHIPS, LIFT HOLES, ETC. SHALL BE SEALED WITH POLYMER GROUT AS SPECIFIED BY THE MANUFACTURER.
8. SEE PANEL DRAWINGS(S) FOR TELEMETRY SYSTEM DETAILS.
9. TELEMETRY SHALL BE PAID FOR BY THE DEVELOPER AND FURNISHED, INSTALLED, AND PROGRAMMED BY TOHO.
10. ALL ENCLOSURE PENETRATIONS SHALL BE MADE ON THE BOTTOM OF THE ENCLOSURE. TOP AND SIDE PENETRATIONS ARE NOT PERMITTED EXCEPT ON TYS. USE MYERS HUBS EXCEPT BETWEEN METER AND DISCONNECT AND TYS.
11. ALL BOXES AND ENCLOSURES SHALL BE NEMA 4X 318 SS.
12. RACK TO UTILIZE SS STRUT CHANNEL, SS HARDWARE, AND VINYL EDCAPS.



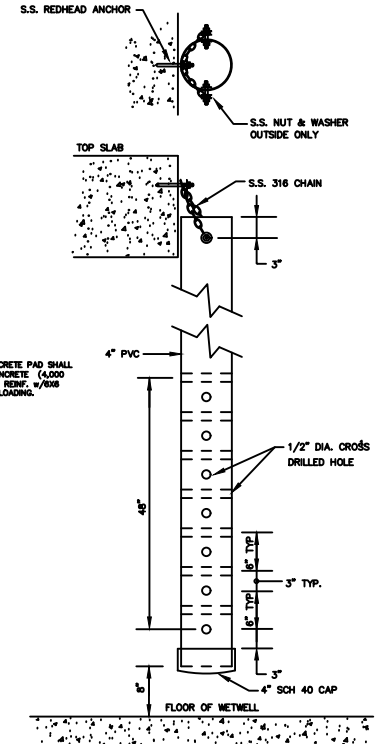
PLAN VIEW
NOT TO SCALE



ALTERNATE ANTENNA DETAIL
NOT TO SCALE



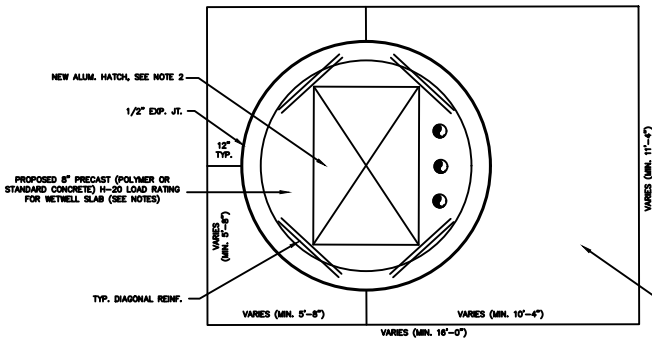
SECTION VIEW
NOT TO SCALE



STILLING WELL
NOT TO SCALE

MARK	DIMENSIONS	DESCRIPTION	COMMENTS
DIM. (A)		WETWELL WALL THICKNESS	PER PRECASTER SPECIFICATIONS
DIM. (B)		WETWELL DIAMETER	8" MINIMUM
DIM. (C)		PER PUMP SUBMITTAL DATA	
DIM. (D)		SEE TOP SLAB DETAIL	
DIM. (E)		ELEVATION	BOTTOM OF WETWELL
DIM. (F)		ELEVATION	PUMPS OFF
DIM. (G)		ELEVATION	LEAD PUMP ON
DIM. (H)		ELEVATION	LAG PUMP ON
DIM. (I)		ELEVATION	AUDIBLE ALARM & INVERT
DIM. (J)		ELEVATION	TOP OF SLAB
DIM. (K)		HOPE DR11 DIAMETER	DISCHARGE
DIM. (L)		EQUAL TO DEPTH OF WETWELL	15' MIN W/ NO ODOR CONTROL 20' MIN W/ ODOR CONTROL REQ'D
FLOOD ZONE DESIGNATION		FLOOD ELEV.	VERT DATUM "NAVD"

PUMP MANUFACTURER: _____ MODEL: _____ HP: _____
IMPELLER: _____ GPM at: _____ TDH



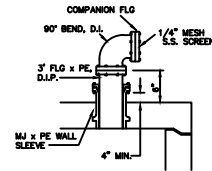
TYPICAL LIFT STATION SLAB DETAIL

NOT TO SCALE

LIFT STATION SLAB NOTES:

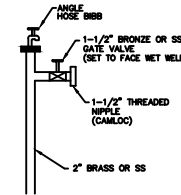
- 1) SAWCUT 2" DEEP JOINT AS SHOWN, SAW CUTTING TO BE PERFORMED IMMEDIATELY AFTER PLACEMENT, AS SOON AS THE CONCRETE IS FIRM ENOUGH TO SUPPORT THE SAW AND TO NOT BE TORN OR DAMAGED BY THE BLADE.
- 2) ALUMINUM ACCESS HATCH SHALL BE BY HALLIDAY MODEL SERIES WGS WITH FALL PROTECTION GRATING OR TWA APPROVED EQUAL, APPLY A BITUMINOUS COATING INSIDE. ALUMINUM IS IN CONTACT WITH CONCRETE, AND LIFT STATION SLAB AND AS SHOWN.
- 3) PROVIDE SARCUTS EVERY 12" IN LENGTH AND WIDTH OF ACCESS DRIVEWAY AND LIFT STATION SLAB AND AS SHOWN.
- 4) SEE CIVIL DRAWINGS FOR SLAB LOCATION AND DIMENSIONS.
- 5) TOP SLAB SHALL BE POLYMER OR STANDARD CONCRETE, ALL OTHER NET WELL CONCRETE SECTIONS SHALL BE POLYMER ONLY.

PROPOSED LIFT STATION SLAB SHALL BE MIN. 6" THICK CONCRETE (4,000 PSI, TYPE 2 CEMENT) REIN. #6/8 W/8" H-20 TRAFFIC LOADING. STABILIZE SUBGRADE TO MIN. 12"

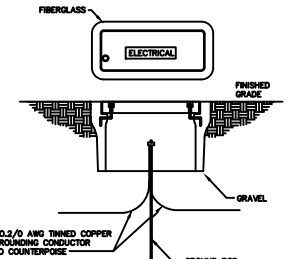


NOTE: SIZE VENT DIAMETER SAME AS DISCHARGE PIPING. LENGTH = SLAB THICKNESS PLUS 4" MIN.

VENT DETAIL
NOT TO SCALE



WATER OUTLET DETAIL
NOT TO SCALE

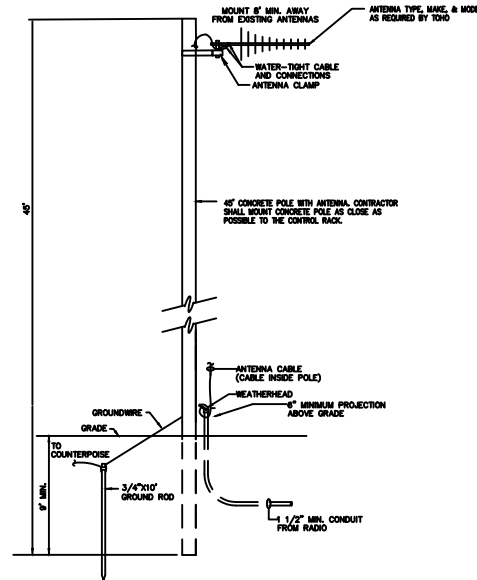
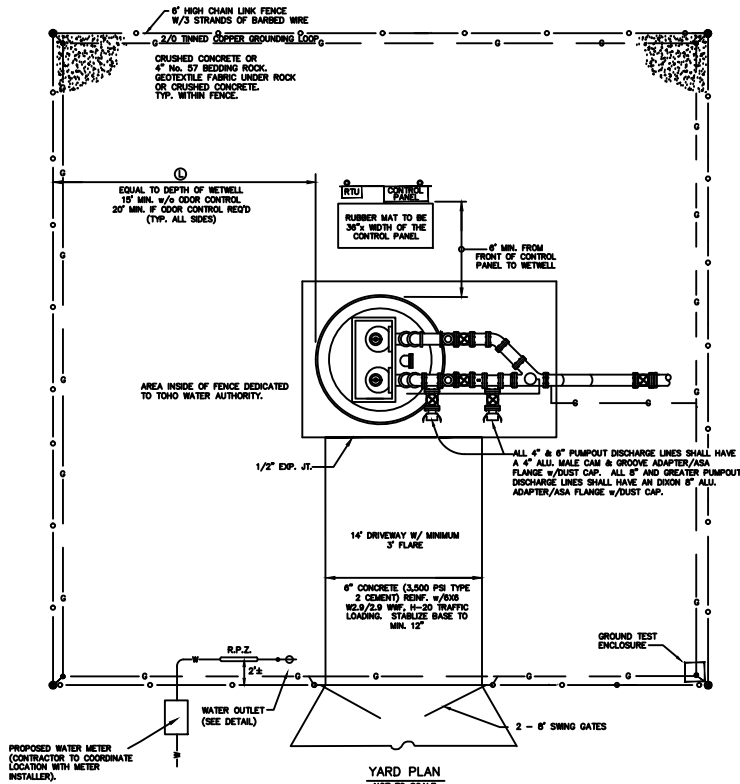


GROUND TEST ENCLOSURE

THE GROUNDING COUNTERPOISE LOOP SHALL BE BONDED BY CABLEWELL TO GROUND RODS AND GROUND WIRE PITIALS.

THE FOLLOWING SHALL BE MECHANICALLY BONDED TO THE COUNTERPOISE LOOP:

1. CORNER POSTS
2. GATE POSTS, GATE AND FENCE
3. WATER SERVICE
4. CONTROL PANEL
5. NET WELL HATCH AND HANDRAIL
6. DISCHARGE PIPING
7. ALL CONDUIT ENTRIES (METAL) INTO CONTROL PANEL BY MEANS OF GROUNDING BUSHINGS.
8. MAIN DISCONNECT SWITCH
9. UTILITY COMPANY TRANSFORMER
10. GENERATOR
11. DOOR CONTROL
12. SERVICE DISCONNECT SWITCH
13. TELEMETRY PANEL
14. TELEMETRY MAST

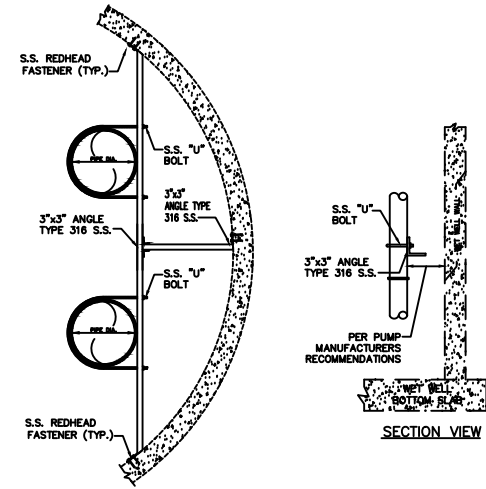


POLE MOUNTED ANTENNA DETAIL

NO SCALE

NOTES:

1. YARD PIPING PLAN IS A GENERIC PLAN SHOWING REQUIRED PIPING AND MINIMUM CLEARANCES, SEPARATIONS, AND SITE SIZING REQUIREMENTS
2. A SITE SPECIFIC YARD PLAN IS REQUIRED
3. A SITE SPECIFIC PLAN IS REQUIRED THAT IDENTIFIES THE LOCATION OF THE DRIVEWAY, ACCESS ROADS, AND ALL OTHER RELEVANT SITE FEATURES. LAYOUT MUST INCLUDE SITE GRADING TO SHOW DRAINAGE AWAY FROM THE NET WELL AND SLAB AND THE SITE IN GENERAL.
4. A LAYOUT DEVIATING FROM THIS DETAIL SHALL BE DRAWN TO SCALE AND SHOW NETWELL PUMPS AND INFLUENT AND EFFLUENT PIPING TO ENSURE SUFFICIENT SPACE WITHIN THE NETWELL TO ACCOMMODATE ALL MECHANICAL EQUIPMENT AND PIPING
5. ELECTRICAL TRANSFORMERS MUST BE LOCATED OUTSIDE OF THE FENCED AREA
6. PROPOSED 14" DRIVEWAY W/ MINIMUM 3" FLARE MUST EXTEND TO A PAVED PUBLIC OR PRIVATE ROADWAY
7. LIFT STATION SITES LOCATED ON ROADS WITH POSTED SPEED LIMITS OF 25MPH OR GREATER REQUIRE DRIVE-THRU OR TURNAROUND ACCESS
8. ENGINEER SHALL PROVIDE A TRANSPORT AUTO-TURN OR AUTODESK VEHICLE TRACKING ANALYSIS FOR A COMBINATION SENSER CLEANING VEHICLE TRUCK



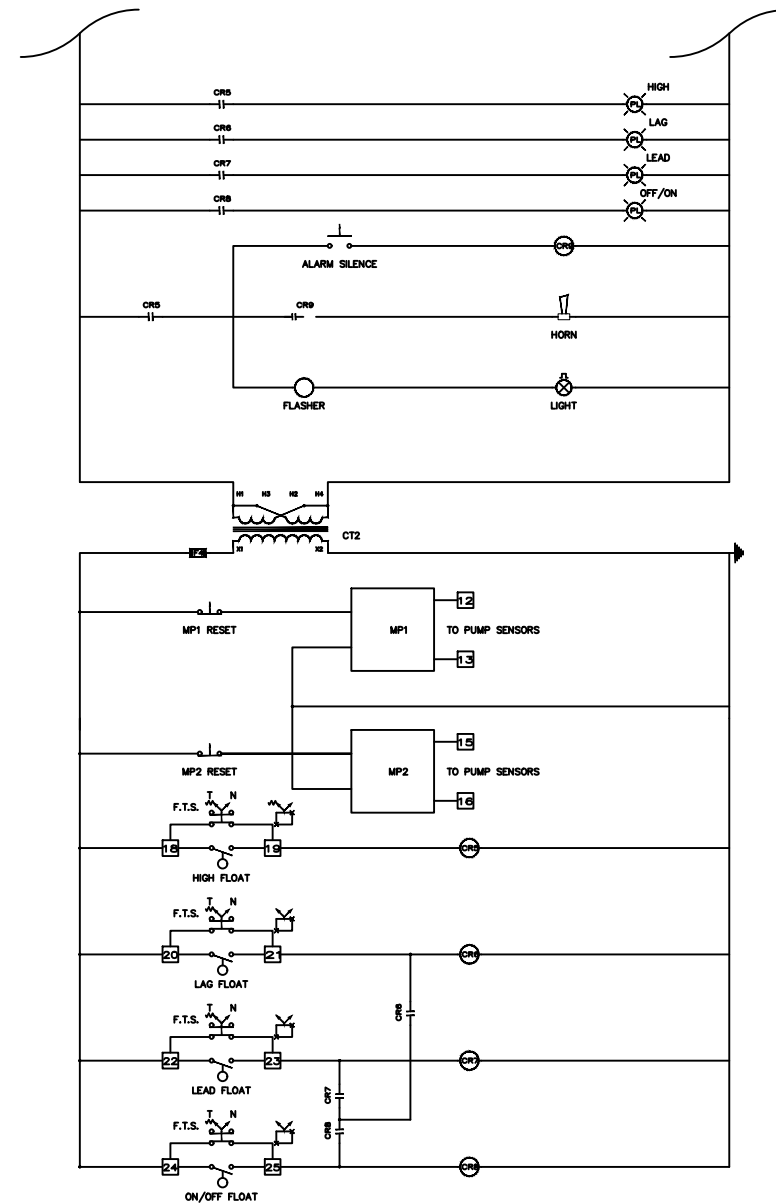
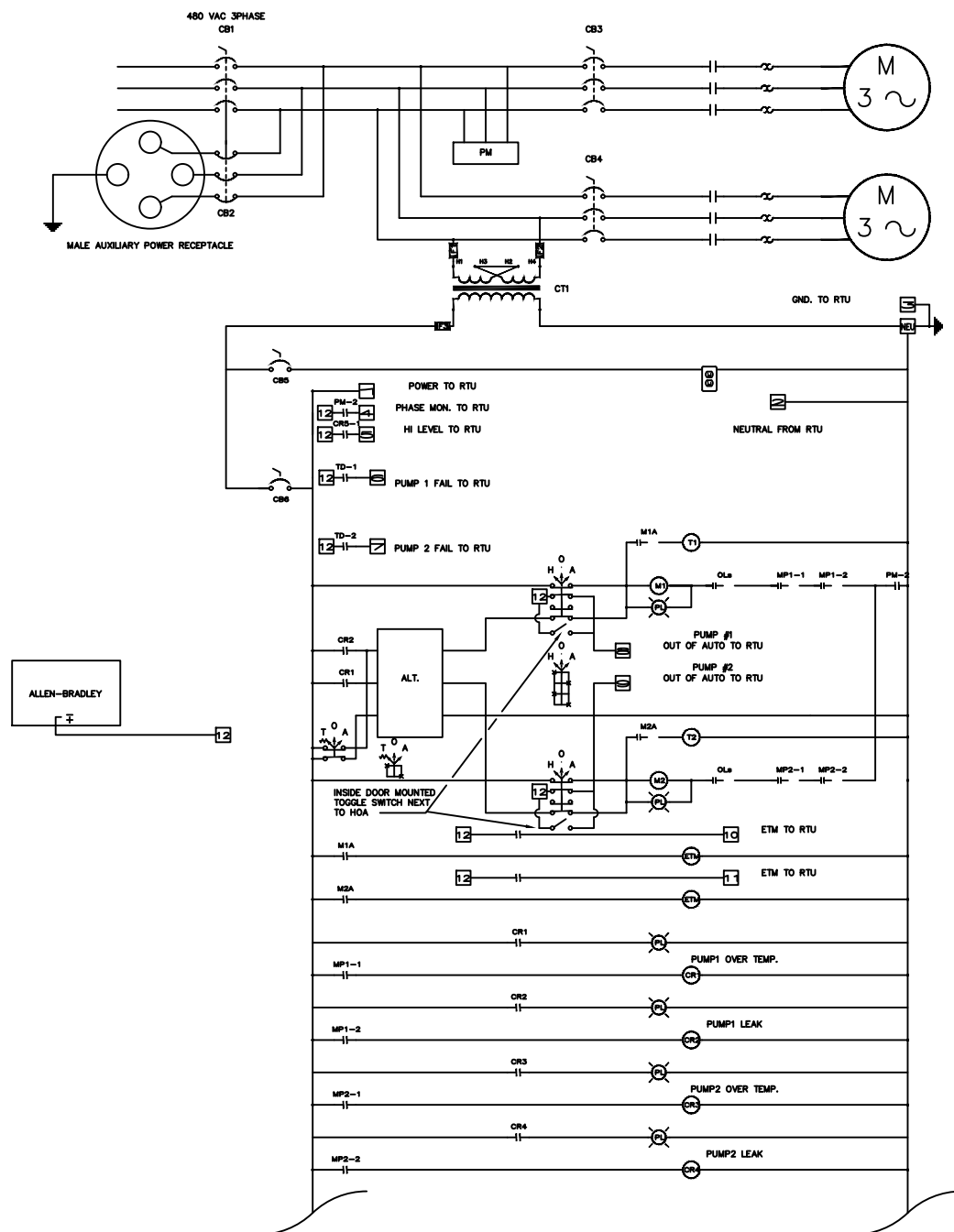
TOP VIEW

NOTES:

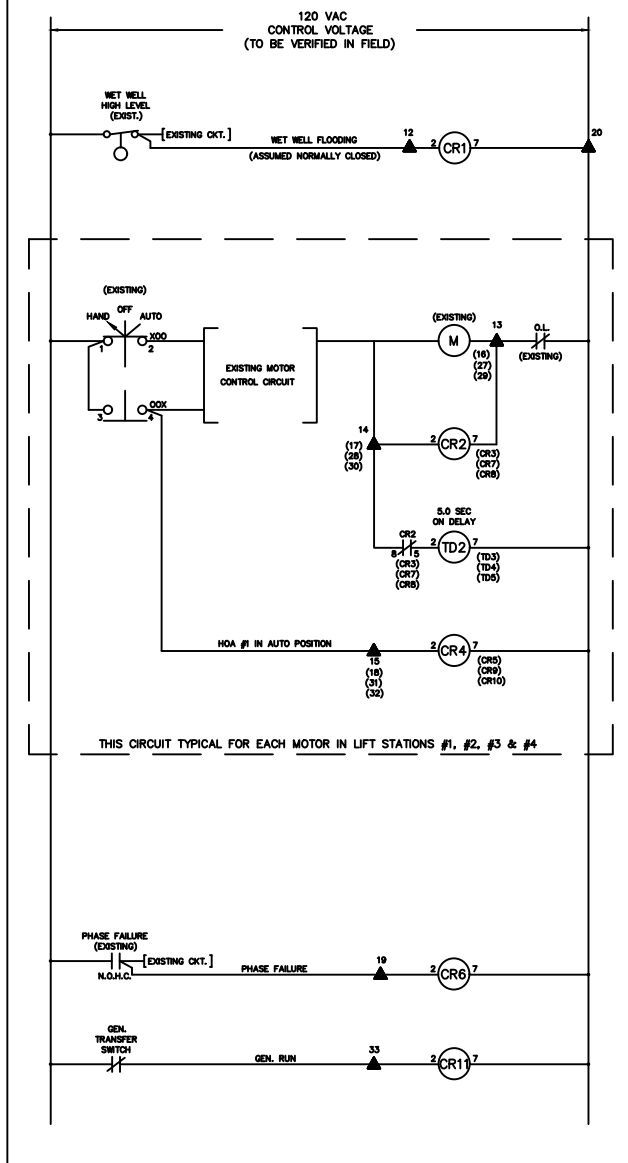
1. ALL COMPONENTS AND BRACKET ASSEMBLY SHALL BE GRADE 316 STAINLESS STEEL.
2. BRACKETS SHALL BE SPACED AS INDICATED IN THE CONSTRUCTION DRAWING OR AT THE DIRECTION OF TWA.
3. PIPE SIZES AND MATERIALS SHALL BE AS INDICATED IN THE CONSTRUCTION DRAWINGS.
4. A MINIMUM OF 2 BRACKETS REQUIRED. MAX 10' SPACING.
5. WELD ALL CONNECTIONS EXCEPT U-BOLTS.

PIPE FASTENING BRACKET

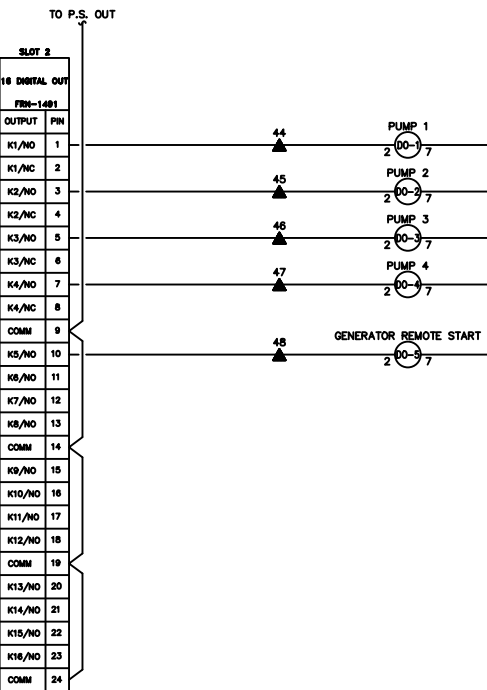
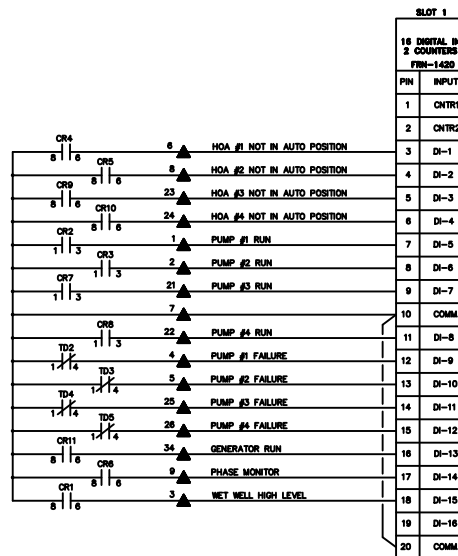
NOT TO SCALE



FIELD SCHEMATIC

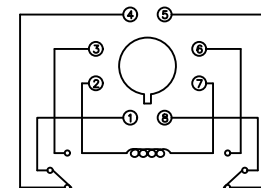


RTU SCHEMATIC (All points connect to TB-3)



INSTALLATION NOTES:

1. INSTALLER TO VERIFY CONTROL VOLTAGE IN ORDER TO DETERMINE RELAY COIL VOLTAGES.
2. INSTALLER TO VERIFY DATA SHEETS AS TO WHAT OPTIONS ARE TO BE INSTALLED AT EACH LIFT STATION
3. INSTALLER TO VERIFY THAT ALL SIGNALS ARE NORMALLY CLOSED, CONTACT OPENS ON SIGNAL.
(i.e. SOME SIGNALS MAY BE GENERATED AS NORMALLY OPEN FROM FIELD LIMIT SWITCH.)
4. TYPICAL RELAY PIN OUT IS AS FOLLOWS:



5. ALL CONTROL RELAYS TO BE P & B #KRP11AN OR EQUAL.
6. ALL TIME DELAY RELAYS TO BE DIGI SWITCH TYPE TDM OR EQUAL.
7. ▲ - TB2 LOCATED IN JUNCTION BOX. TO BE PRE-WIRED IN SHOP.

