

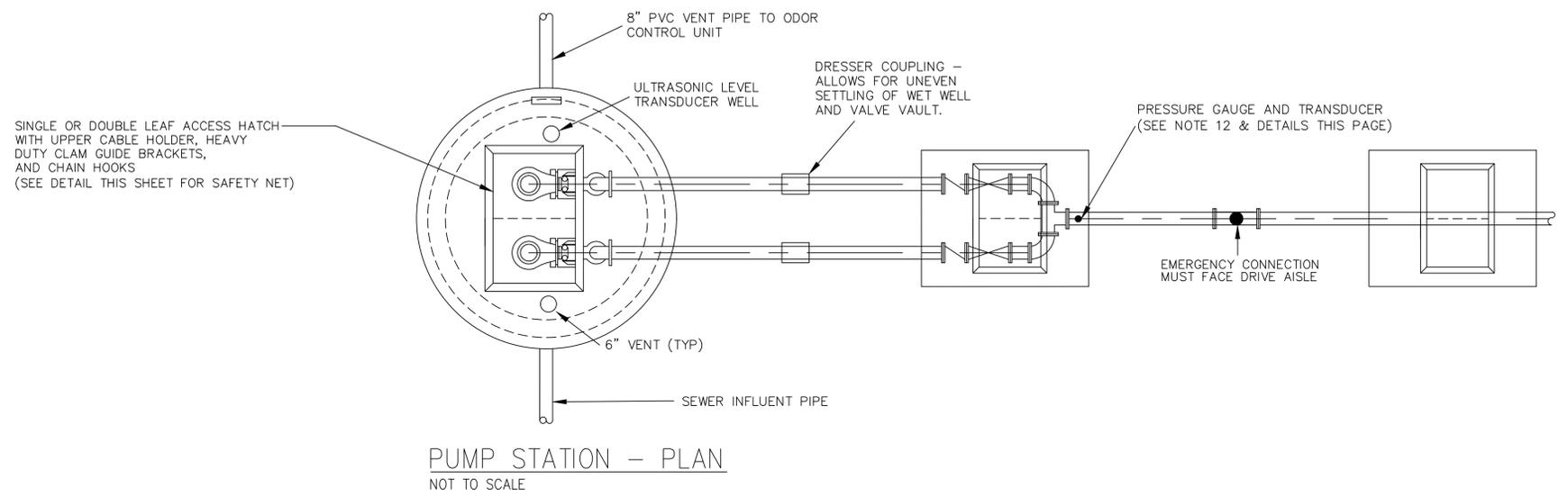
| ITEM                         | ELEVATION (NAVD 88) |
|------------------------------|---------------------|
| (A) TOP ELEVATION OF WETWELL |                     |
| (B) INFLUENT PIPE (INVERT)   |                     |
| (C) HIGH WATER ALARM         |                     |
| (D) START LEAD PUMP          |                     |
| (E) START LAG PUMP           |                     |
| (F) PUMP OFF                 |                     |
| (G) BOTTOM OF WETWELL        |                     |

| ITEM                                  | VALUE     |
|---------------------------------------|-----------|
| WETWELL DIAMETER (MIN. 8')            |           |
| ROHN 65G TOWER HEIGHT                 |           |
| PUMP MAKE                             |           |
| PUMP MODEL                            |           |
| IMPELLER SIZE                         |           |
| VOLTAGE                               |           |
| PHASE                                 |           |
| HORSEPOWER                            |           |
| RPM                                   |           |
| DISCHARGE FLOW RATE AT DISCHARGE HEAD | GPM @ TDH |

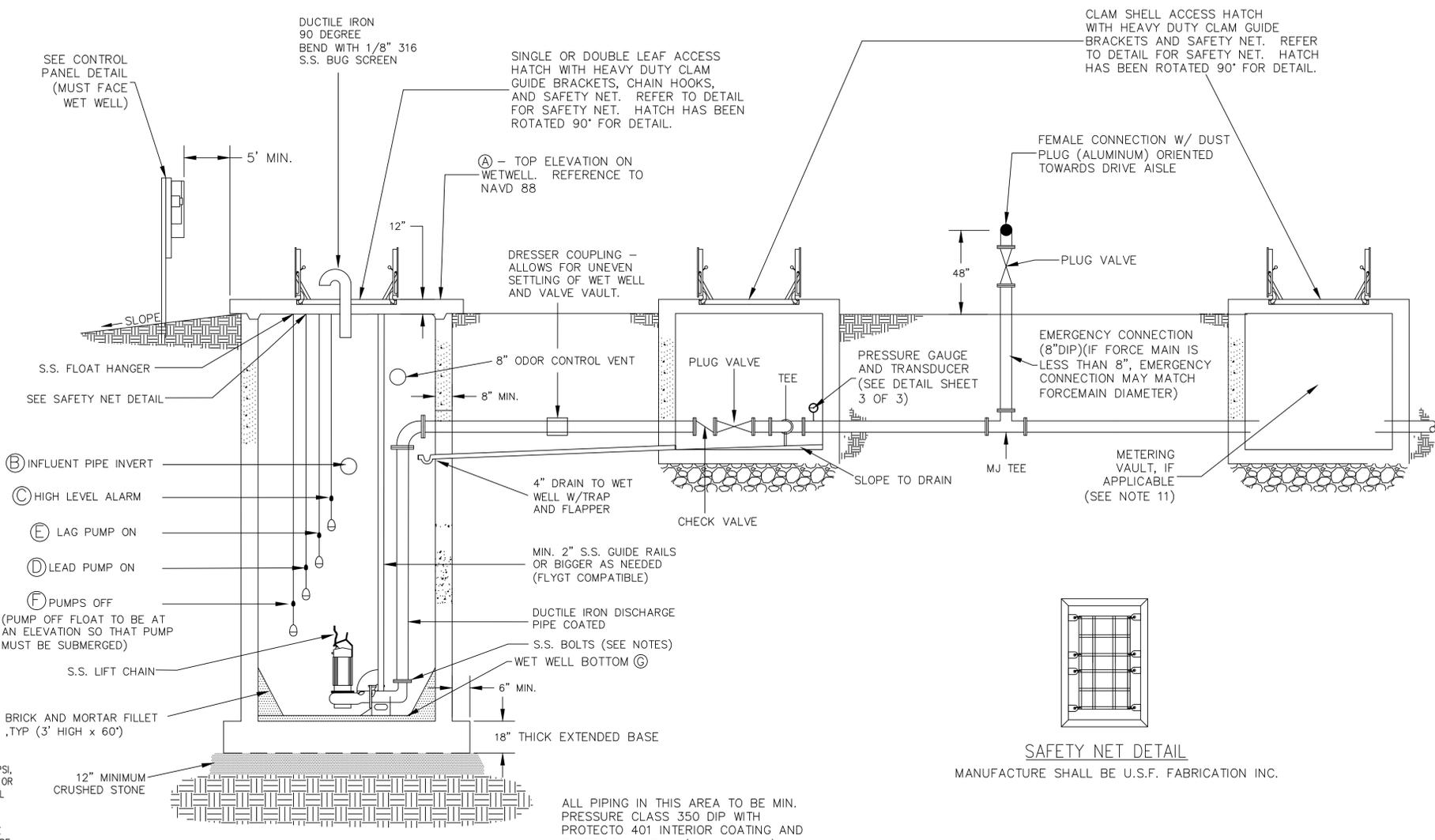
- NOTES:**
- FOR PUMP STATIONS LARGER THAN 50 HP, WET WELL LEVEL AND ALARMS SHOULD BE PRIMARILY CONTROLLED BY AN ULTRASONIC LEVEL TRANSMITTER SYSTEM PER BRUNSWICK COUNTY STANDARD SPECIFICATIONS. IN THE EVENT OF FAILURE OF THE ULTRASONIC LEVEL TRANSMITTER SYSTEM THE WET WELL FLOATS WILL CONTROL THE PUMP STATION. REFER TO BRUNSWICK COUNTY PUMP STATION TECHNICAL SPECIFICATIONS IN SCADA SPECIFICATIONS.
  - ALL POWER TO THE PUMP STATION SHALL BE 3 PHASE POWER.
  - ALL HATCHES SHALL BE PROVIDED WITH OSHA APPROVED FALL SAFETY DEVICE.
  - INSTALL ALL JUNCTION BOXES 2' ABOVE 100 YEAR WATER SURFACE ELEVATION.
  - PIPE STANCHIONS SHALL BE GALVANIZED METAL AND DESIGNED BY THE ENGINEER TO ADEQUATELY SUPPORT THE SIZE AND WEIGHT OF THE ELECTRICAL AND SCADA COMPONENTS MOUNTED TO THEM. ALL COMPONENTS SHALL BE MOUNTED USING 316 SS ANCHOR BOLTS.
  - ALL PUMP STATION CONTROL PANELS SHALL BE EQUIPPED WITH A TERMINAL BLOCK WITH DRY CONTACTS TO ALLOW CONNECTION TO SCADA CONTROL PANEL.
  - THE CONTRACTOR SHALL INSTALL A SCADA CONTROL PANEL PER BRUNSWICK COUNTY SPECIFICATIONS.
  - INSTALL OUTSIDE WATERPROOF 120VAC OUTLET.(GFCI PROTECTED)
  - PUMP LIFTING CHAINS SHALL BE STAINLESS STEEL AND ALL FLANGE BOLTS SHALL BE 316 STAINLESS STEEL.
  - ALL DIP AND FITTINGS SHALL BE COATED ON THE OUTSIDE AND INSIDE PER BRUNSWICK COUNTY SPECIFICATIONS.
  - BRUNSWICK COUNTY MAY REQUIRE A FLOW METER VAULT. MINIMUM SIZE IS 6'X6'. A 4" DRAIN LINE TO WET WELL WITH TRAP AND FLAPPER IS REQUIRED. METER VAULT MAY ALSO DRAIN TO THE VALVE VAULT.
  - MOUNT A LIQUID FILLED PRESSURE GAUGE ON THE FORCE MAIN. IT SHALL BE LOCATED IN THE VALVE VAULT ON THE COMMON FORCE MAIN DOWNSTREAM OF THE TEE AND ORIENTED FOR EASE OF VIEWING FROM ABOVE.

**Revisions**

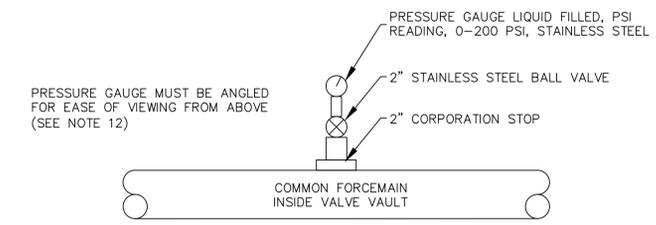
|                          |
|--------------------------|
| 1.01 - DATED 10/15/2013  |
| 1.02 - DATED 7/15/2015   |
| 1.03 - DATED 10/27/2015  |
| 1.04 - DATED 11/9/2018   |
| 1.05 - DATED 11/28/2018  |
| 1.06 - DATED 12/5/2019   |
| Pump Station Section Rev |



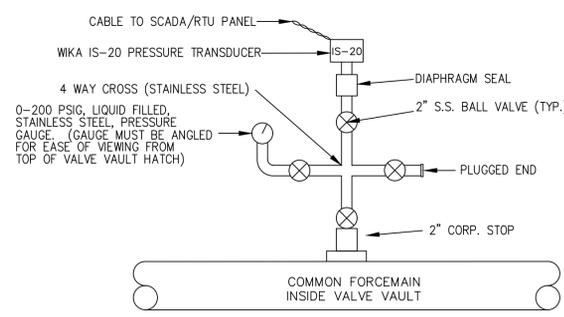
**PUMP STATION - PLAN**  
NOT TO SCALE



**PUMP STATION - SECTION**  
NOT TO SCALE



**PRESSURE GAUGE DETAIL**  
FOR PUMP STATION THAT CONNECTS DIRECTLY TO GRAVITY SEWER  
SEE TECHNICAL SPEC 023 SECTION 6



**PRESSURE GAUGE AND TRANSDUCER DETAIL**  
FOR PUMP STATION THAT CONNECTS DIRECTLY TO A FORCEMAIN  
SEE TECHNICAL SPEC 023 SECTION 6

- NOTES:**
- PRESSURE TRANSDUCER - WIKA IS-20, 0-200 PSI, OUTPUT 4-20 MA, CABLE LENGTH 100' MINIMUM OR AS REQUIRED TO CONNECT TO SCADA/RTU PANEL WITHOUT SPLICES (PART #52358038)
  - DIAPHRAGM SEAL - WIKI, TYPE L990.36, 1/2" NPT
  - PRESSURE TRANSDUCER CABLE MUST REACH THE SCADA/RTU PANEL WITHOUT SPLICING AND WILL BE INSTALLED IN A 1" DIAMETER, SCH. 80 PVC CONDUIT.
  - CONTRACTOR SHALL ASSEMBLE THE "PRESSURE GAUGE AND TRANSDUCER DETAIL AS COMPACTLY AS POSSIBLE INSIDE THE PUMP STATION VALVE VAULT.

COUNTY OF BRUNSWICK



PUMP STATION DETAILS  
PUMP STATIONS LARGER THAN 50HP  
FOR  
**BRUNSWICK COUNTY**  
NORTH CAROLINA

Date: 5-15-2012  
Scale: NTS  
Drawn By: JDM  
Checked By: WLP

SAFETY NET DETAIL  
MANUFACTURE SHALL BE U.S.F. FABRICATION INC.

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