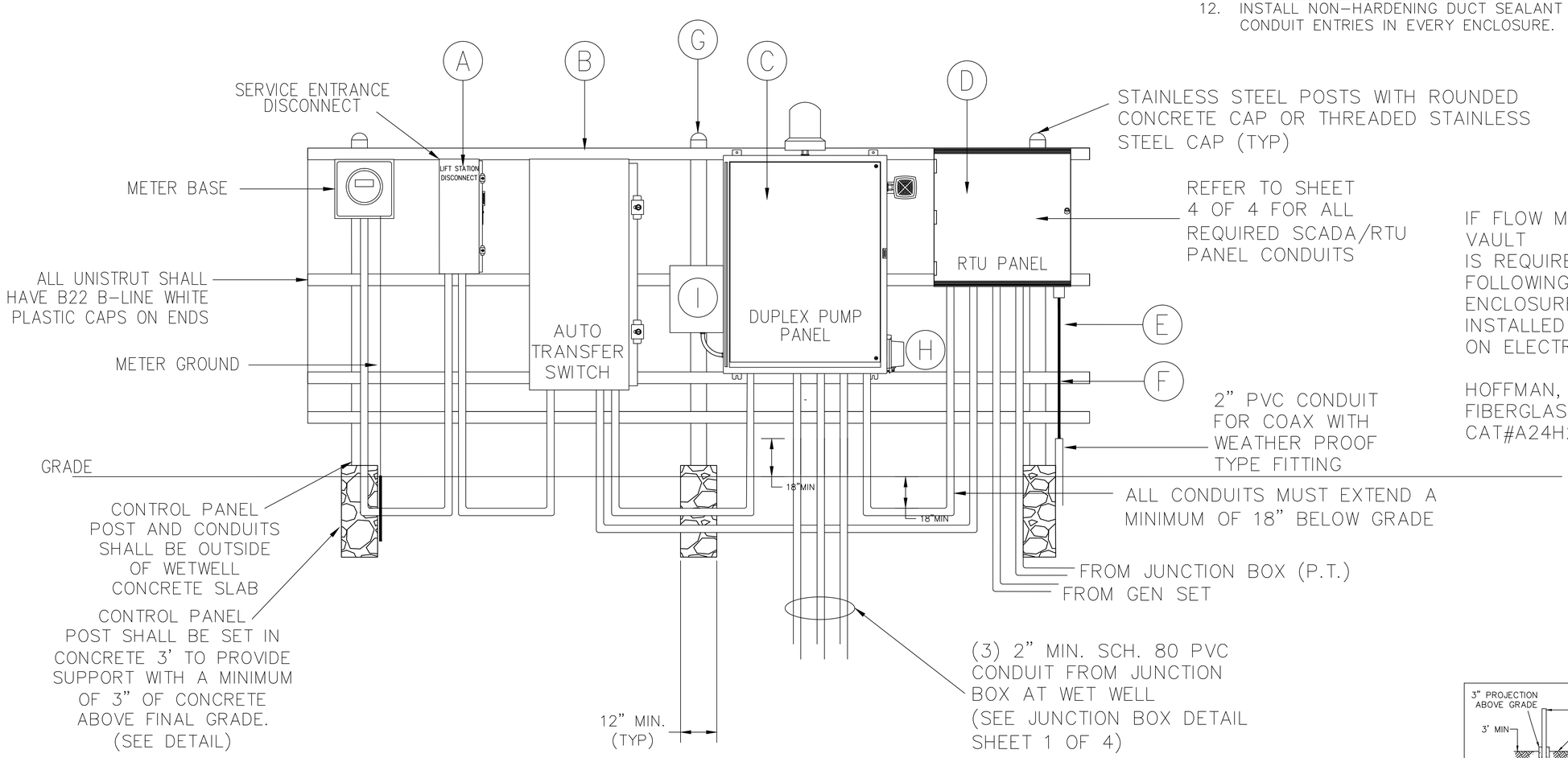
ITEM

A	SERVICE DISCONNECT (SEE NOTE 2)
B	AUTOMATIC TRANSFER SWITCH (SEE NOTE 2)
C	DUPLEX PUMP CONTROL PANEL (SEE NOTE 2 & 3)
D	RTU PANEL – FIBERGLAS
E	POLYPHASE COAXIAL CABLE SURGE ARRESTOR
F	COAX CABLE
G	MINIMUM 3" STAINLESS STEEL POSTS
H	GFCI PROTECTED OUTLET
I	DRY TRANSFORMER–10kVA (SEE NOTE 4)

NOTES:

1. ALL POWER TO THE PUMP STATION SHALL BE THREE PHASE POWER. PUMP STATIONS 10 HP AND SMALLER MAY HAVE SINGLE PHASE POWER.
2. TRANSFER SWITCH, DUPLEX PUMP PANEL, AND SERVICE DISCONNECT SHALL BE STAINLESS STEEL.
3. THE DUPLEX PUMP PANEL SHALL HAVE A FACTORY APPLIED WHITE PAINT FINISH AND 3–POINT LOCKABLE HATCH.
4. 10KVA DRY TRANSFORMER REQUIRED FOR 480 VAC PRIMARY.
5. PROVIDE A MINIMUM OF THREE 10' LONG $\frac{3}{4}$" DIAMETER COPPER CLAD GROUND RODS SPACED A MINIMUM OF 10' APART, EXOTHERMICALLY WELDED AND BONDED TOGETHER WITH INSPECTION WELLS AT EACH CONNECTION. ONE GROUND ROD LOCATED AT TOWER, ELECTRIC METER, AND GENERATOR.
6. METER BASE, SCADA/RTU PANEL, AND FLOW METER ENCLOSURE (IF APPLICABLE) MAY BE MOUNTED ON THE BACK IF THERE IS NO ROOM ON THE FRONT. SERVICE DISCONNECT, ATS, AND PUMP CONTROL PANEL MUST BE MOUNTED TOGETHER ON THE FRONT AND FACE WET WELL.
7. USE ADEQUATE AMOUNT OF 1 $\frac{5}{8}$" SLOTTED STAINLESS STEEL UNISTRUT TO SUPPORT ALL ENCLOSURES. EACH ENCLOSURE SHALL BE SUPPORTED BY A MINIMUM OF TWO HORIZONTAL PIECES OF UNISTRUT.
8. ALL CONDUIT ENTRIES MUST PENETRATE THE BOTTOM OF ALL ENCLOSURES WITH MYERS HUB TYPE FITTINGS, NO EXCEPTIONS. NO CONDULET FITTINGS (LL, LB, OR LR) ALLOWED.
9. ALL CONDUIT SHALL BE SCHEDULE 80 PVC.
10. ALL ENCLOSURE LABELS SHALL BE OUTDOOR VINYL LABELS AND SHALL BE MOUNTED TO THE ENCLOSURE WITHOUT ANY DRILLING OF THE ENCLOSURE.
11. ALL POWER WIRES AND CONTROL WIRES MUST BE PROPERLY AND PERMANENTLY LABELED ON BOTH ENDS OF WIRES, NO EXCEPTIONS.
12. INSTALL NON–HARDENING DUCT SEALANT ON ALL CONDUIT ENTRIES IN EVERY ENCLOSURE.

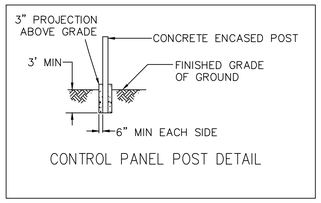


IF FLOW METERING VAULT IS REQUIRED, THE FOLLOWING ENCLOSURE SHALL BE INSTALLED ON ELECTRICAL RACK:

HOFFMAN, TYPE 4X, FIBERGLASS CAT#A24H2412GQRLP

CONTROL PANEL ELEVATION

NOT TO SCALE



CONTROL PANEL POST DETAIL

Revisions

1.1 - DATED 10/15/2013
Added Note for Flow Meter Enclosure

COUNTY OF BRUNSWICK

PUMP STATION DETAILS
50HP OR SMALLER PUMP STATION
FOR
BRUNSWICK COUNTY
NORTH CAROLINA

Date: 04-24-12
Scale: NTS
Drawn By: JDM
Checked By: WLP