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**City of Suffolk
Public Facilities Manual Volume II**

STANDARD DETAILS – Amendment 1

Series 400 – Pumping Stations

450: Emergency Pump Connection (**Amendment 1**)

451: Pressure Sensor Tap for Pump Station Force Main

452: Pump Station Stilling Well and Level Transducer

453: Pump Station Signs

454-1: Private Grinder Pump Station

454-2: Private Grinder Pump Station Force Main Connection to City Force Main

454-3: Private Grinder Pump Station Force Main Connection to Gravity System

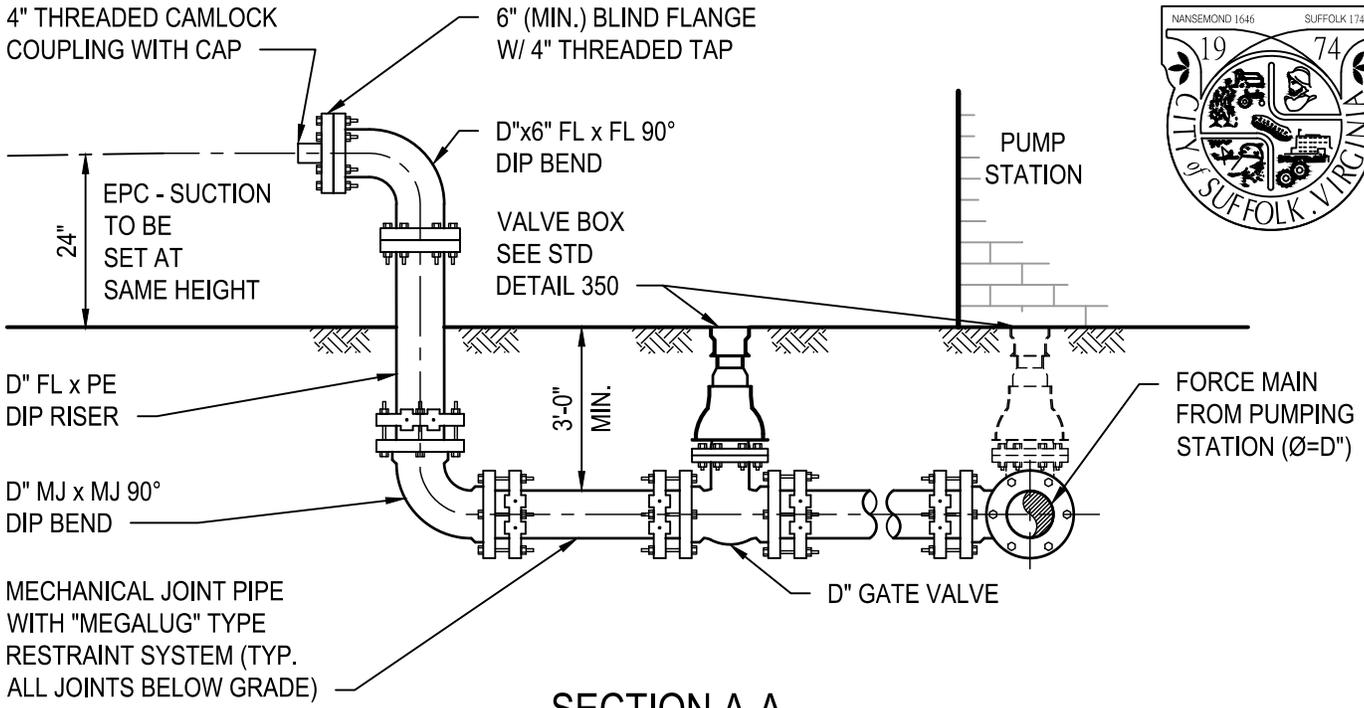
455-1: Control Room Exhaust Fan Panel Elevation (**Amendment 1**)

455-2: Control Room Exhaust Fan Elementary Diagram (**Amendment 1**)

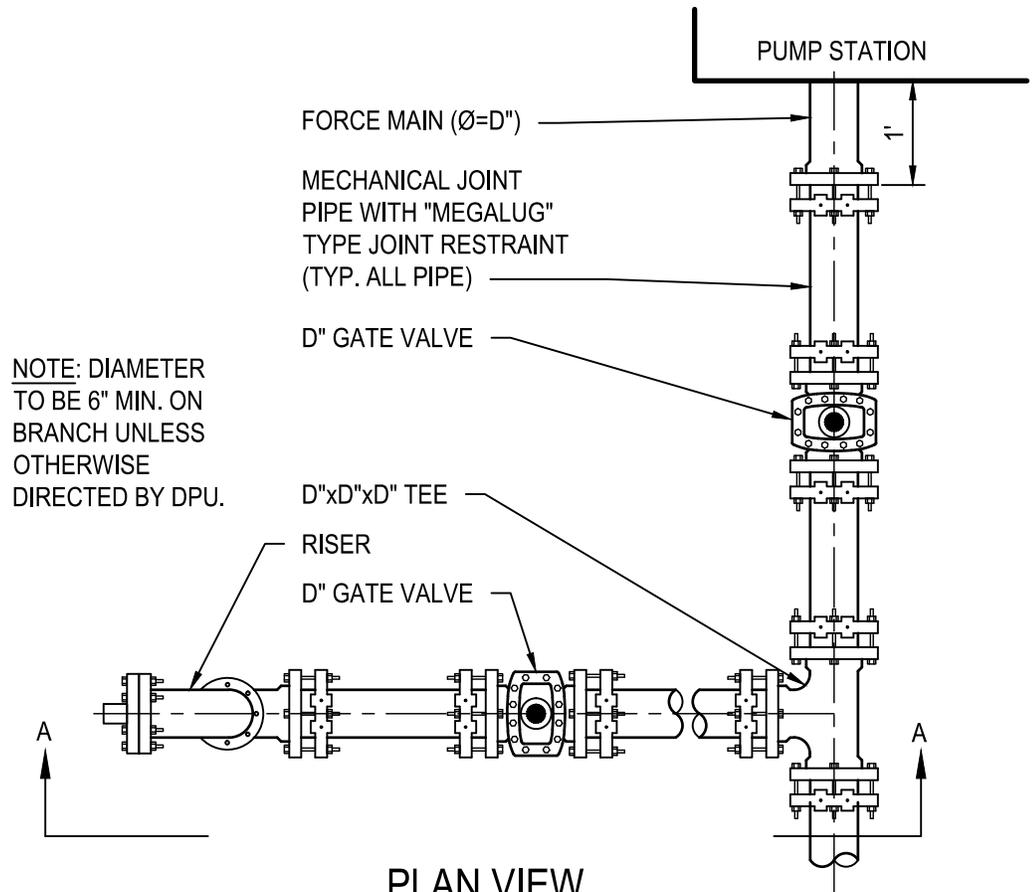
456: Generic Electrical Riser Diagram

457-1: Pump Station Entrance Panel Enclosure Elevation (**Amendment 1**)

457-2: Pump Station Entrance Panel Back Panel Elevation (**Amendment 1**)



SECTION A-A



NOTE: DIAMETER TO BE 6" MIN. ON BRANCH UNLESS OTHERWISE DIRECTED BY DPU.

PLAN VIEW

EMERGENCY PUMP CONNECTION

AMENDMENT 1

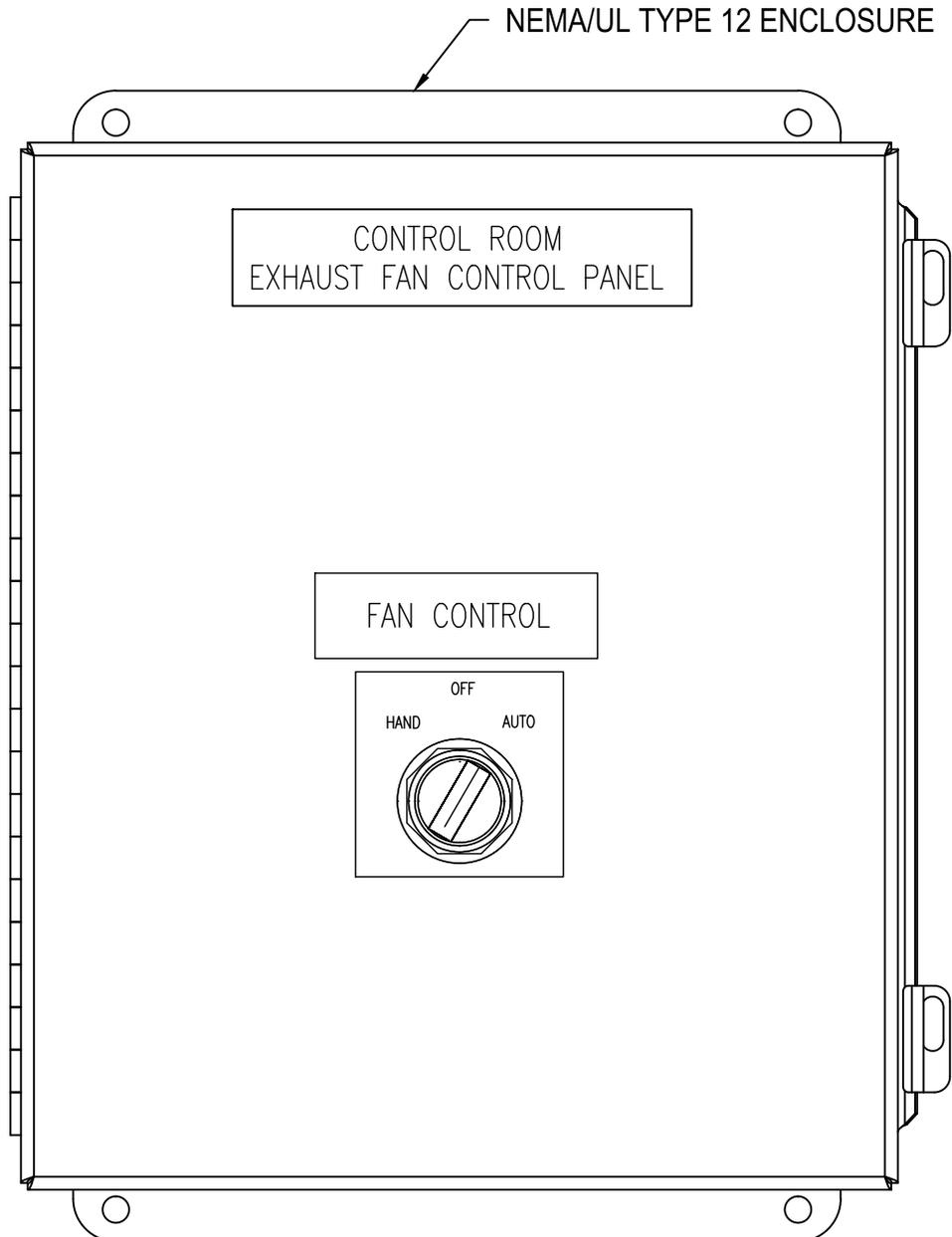
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REFERENCE PFM Vol. II	RELEASE 1 2016	CATEGORY PUMPING STATIONS	SHEET NO. 1 of 1	DPU DETAIL NO. 450
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GENERAL NOTES

1. THE CONTROL ROOM EXHAUST FAN SHALL HAVE A WALL-MOUNTED AND ACCESSIBLE THERMOSTAT FOR AUTOMATIC OPERATION.
 - a. THE THERMOSTAT RANGE SHALL HAVE A MINIMUM SPAN OF 80-130 DEGREES F.
 - b. THE THERMOSTAT SHALL BE INITIALLY SET AT 90 DEGREES.
2. MOUNT BOTTOM OF ENCLOSURE 4' ABOVE FINISHED FLOOR ON INSIDE WALL OF BUILDING.



**CONTROL ROOM EXHAUST FAN
PANEL ELEVATION**

NOT TO SCALE

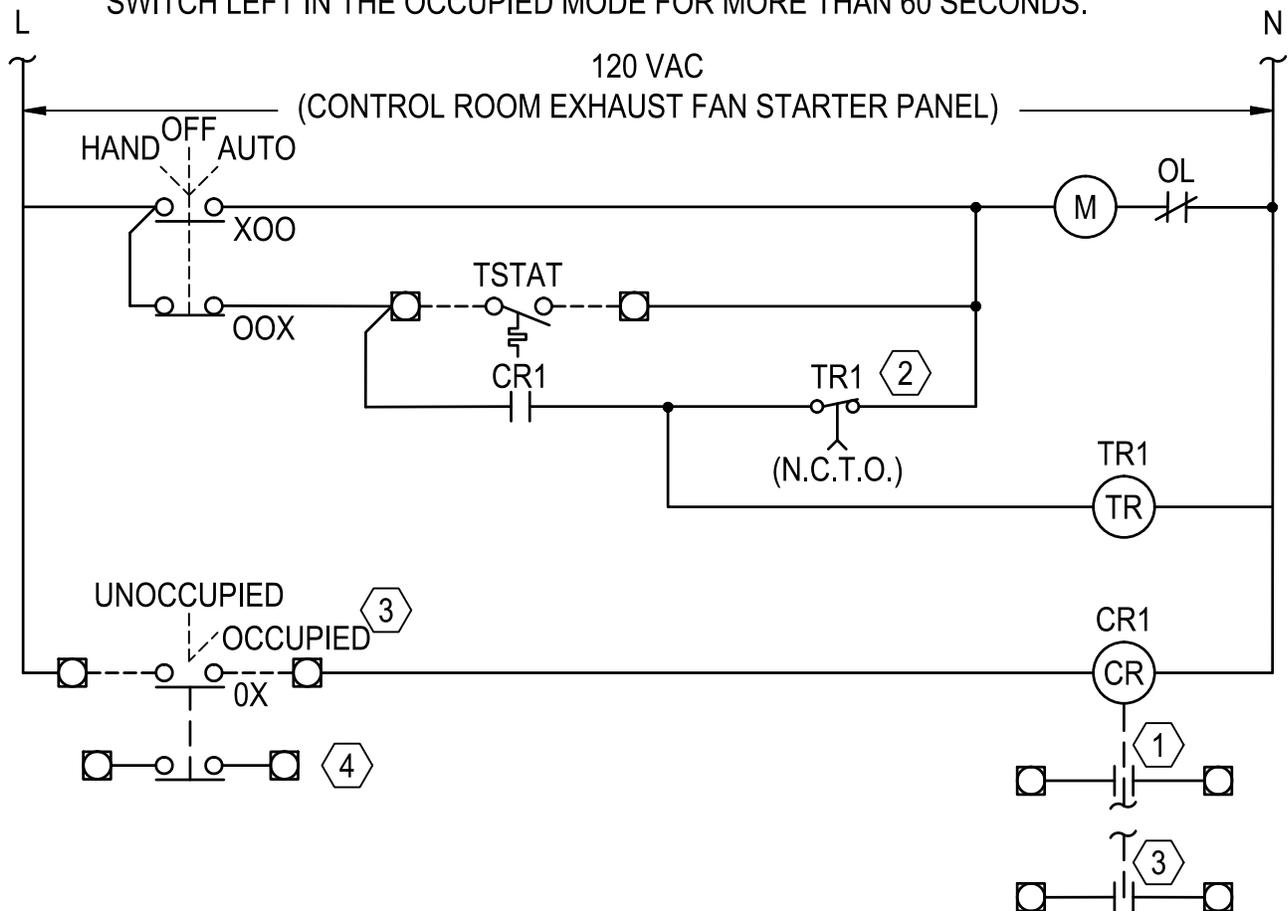
AMENDMENT 1

REFERENCE PFM Vol. II	RELEASE 1 2016	CATEGORY PUMPING STATIONS	SHEET NO. 1 of 2	DPU DETAIL NO. 455-1
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SPECIFIC NOTES

- ① RELAY CONTACT SHALL BE CONNECTED TO ALL PUMP STATION LIGHTING CIRCUITS IN PARALLEL CONNECTION TO MANUAL LIGHT SWITCHES TO OVERRIDE MANUAL OPERATION OF ON/OFF FUNCTION. PROVIDE RELAY CONTACTS AS REQUIRED FOR CIRCUITS.
- ② PROVIDE A NORMALLY CLOSED TIMED OPEN TIMING RELAY TO START EXHAUST FAN OPERATION FOR SET PERIOD OF TIME. COORDINATE TIME SETTING AT START-UP TO PROVIDE ONE COMPLETE CHANGE OF CONTROL ROOM AIR PER CYCLE.
- ③ TWO-POSITION SWITCH LOCATED IN PUMP STATION ENTRANCE PANEL. SEE DETAIL 457 FOR PUMP STATION ENTRANCE PANEL.
- ④ CONNECTION TO TELOG INPUT. TELOG TO PROVIDE MAINTENANCE ALARM IF SECURITY DONGLE IS REMOVED AND ENTRANCE CONTROL SWITCH LEFT IN THE OCCUPIED MODE FOR MORE THAN 60 SECONDS.



**CONTROL ROOM EXHAUST FAN
CONTROL PANEL SCHEMATIC**

AMENDMENT 1

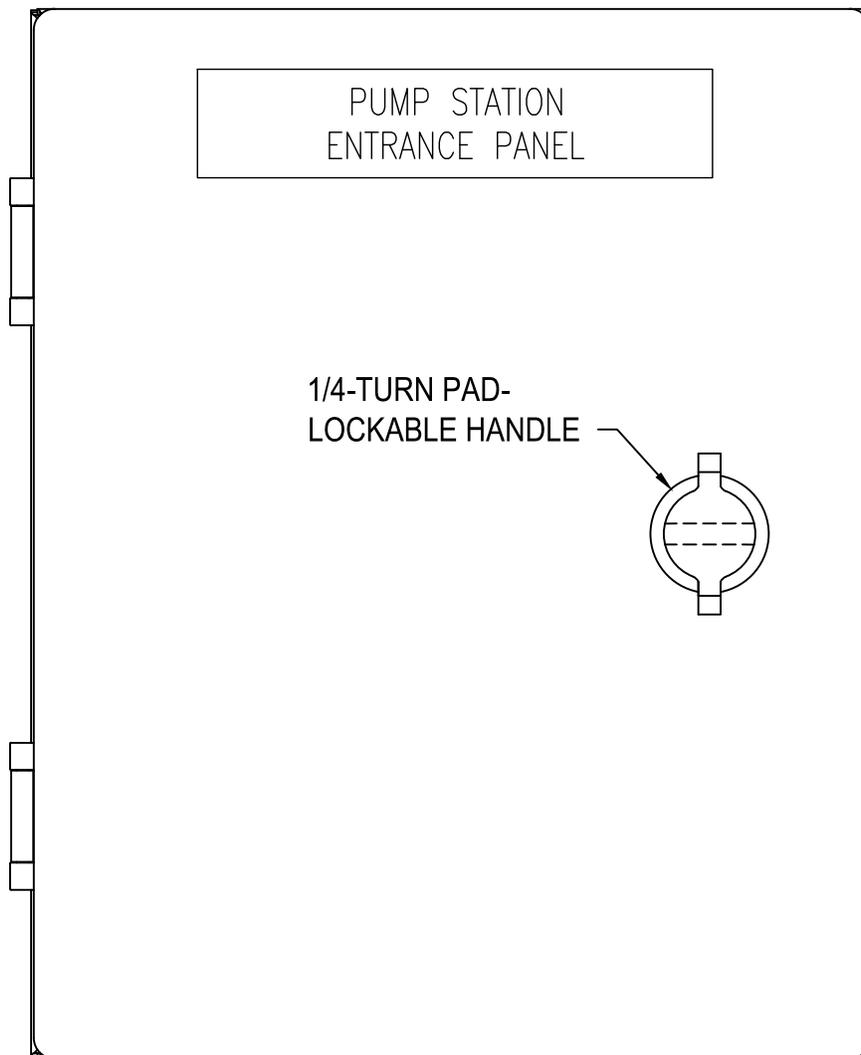
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REFERENCE PFM Vol. II	RELEASE 1 2016	CATEGORY PUMPING STATIONS	SHEET NO. 2 of 2	DPU DETAIL NO. 455-2
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GENERAL NOTES

1. THE PUMP STATION ENTRANCE PANEL SHALL BE NEMA 4X RATED, STAINLESS STEEL, WALL-MOUNTED AND LOCKABLE WITH USE OF A PADLOCK.
2. MOUNT BOTTOM OF PANEL 4' ABOVE FINISHED FLOOR ON OUTSIDE OF BUILDING NEAR (BUT NOT IN CONFLICT WITH) ENTRANCE DOOR. FINAL LOCATION TO BE COORDINATED WITH THE DEPARTMENT.
3. ENCLOSURE SHALL BE A RITTAL PANEL (PN: JB100806H4) WITH A PADLOCKABLE 1/4 TURN THUMB HANDLE ACCESSORY (PN: 8018577).
4. ALL CONDUIT PENETRATIONS SHALL BE THROUGH BOTTOM OF ENCLOSURE ONLY.



**PUMP STATION ENTRANCE PANEL
ENCLOSURE ELEVATION**

AMENDMENT 1

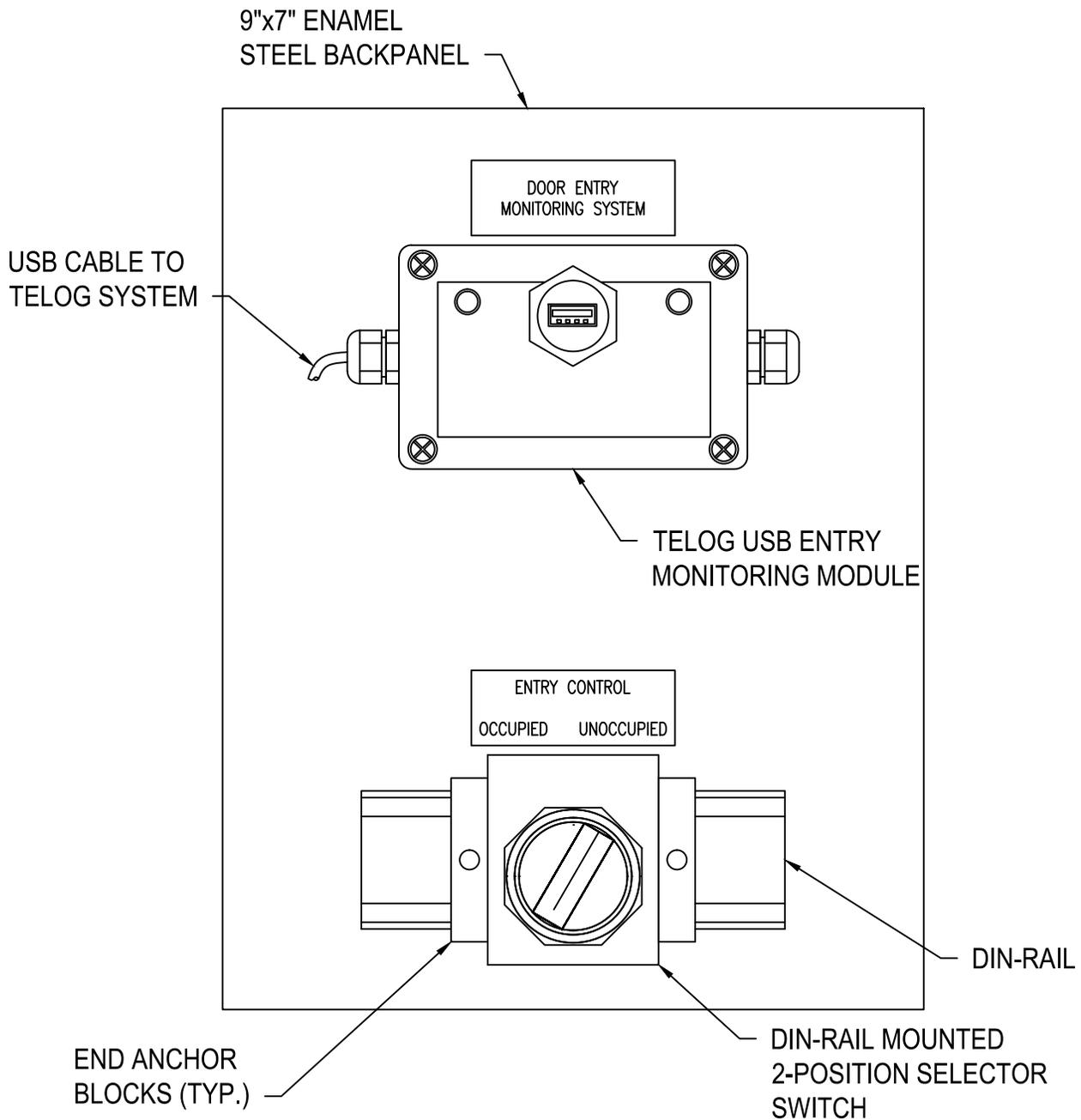
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GENERAL NOTES

1. THE PUMP STATION ENTRANCE PANEL SHALL HAVE THE TELOG DOOR ENTRY MONITORING SYSTEM MODULE MOUNTED INSIDE ALONG WITH A DIN-RAIL MOUNTED TWO POSITION SWITCH.
2. SWITCH CONTROL FUNCTIONS SHALL BE AS SHOWN ON DRAWING 455-2.



PUMP STATION ENTRANCE PANEL BACK PANEL ELEVATION

NOT TO SCALE

AMENDMENT 1

REFERENCE PFM Vol. II	RELEASE 1 2016	CATEGORY PUMPING STATIONS	SHEET NO. 2 of 2	DPU DETAIL NO. 457-2
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