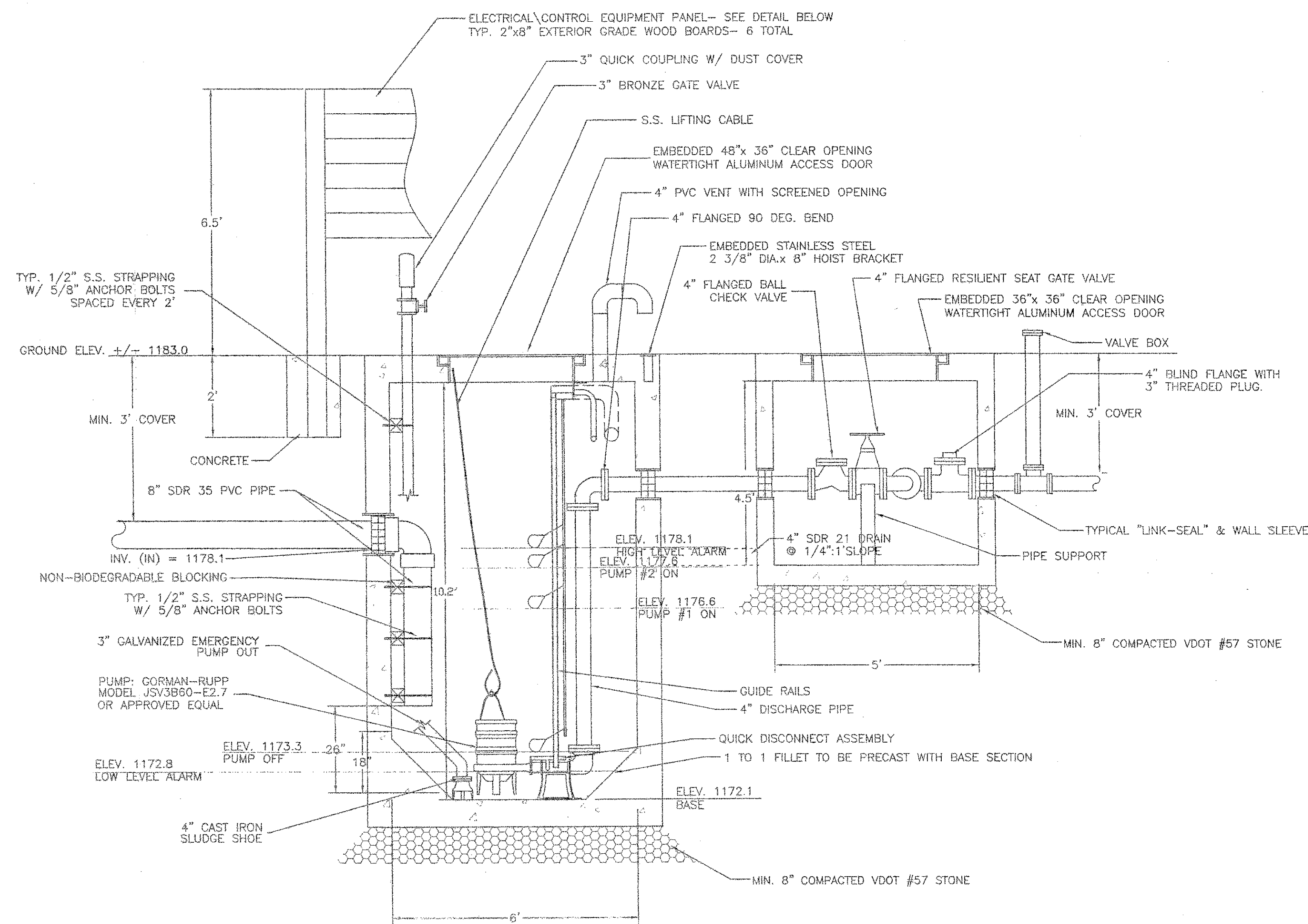
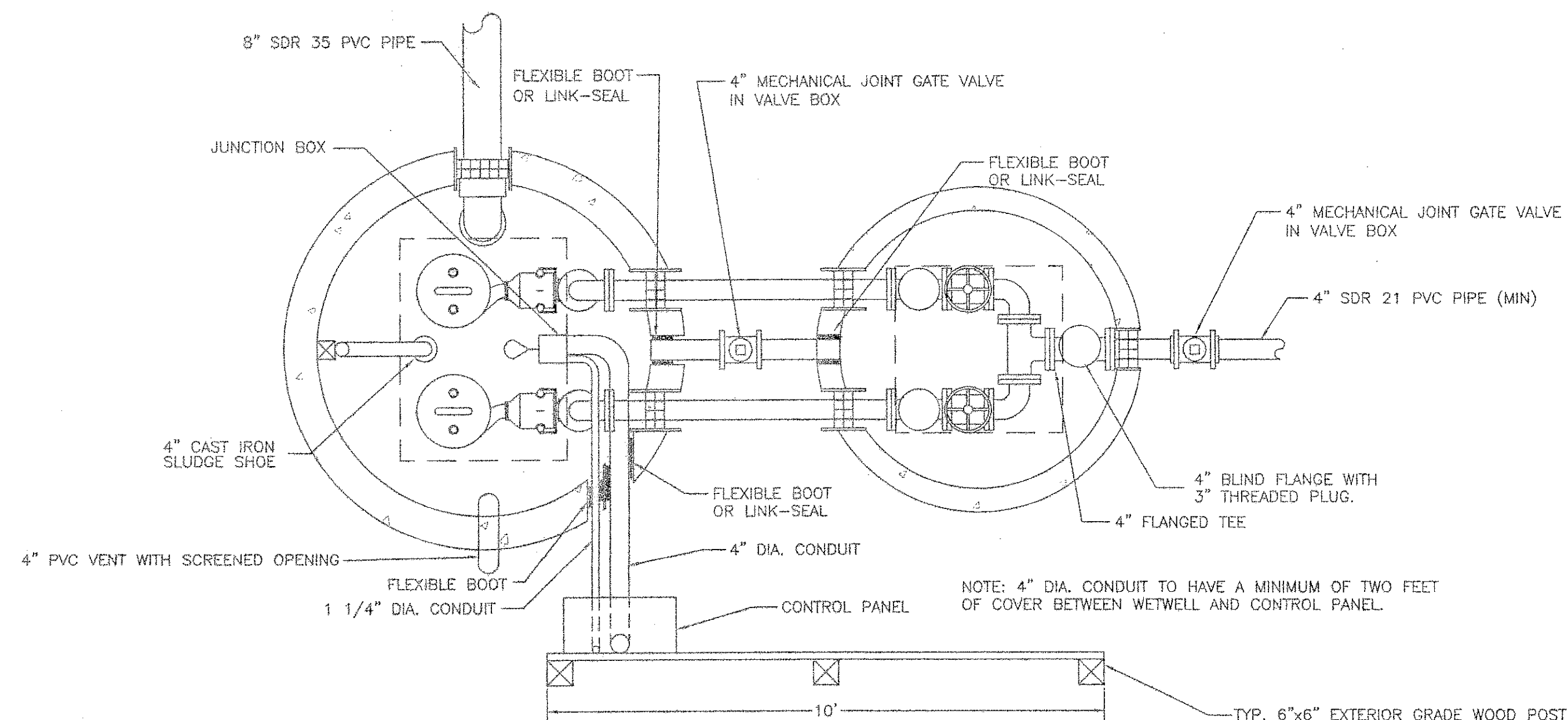
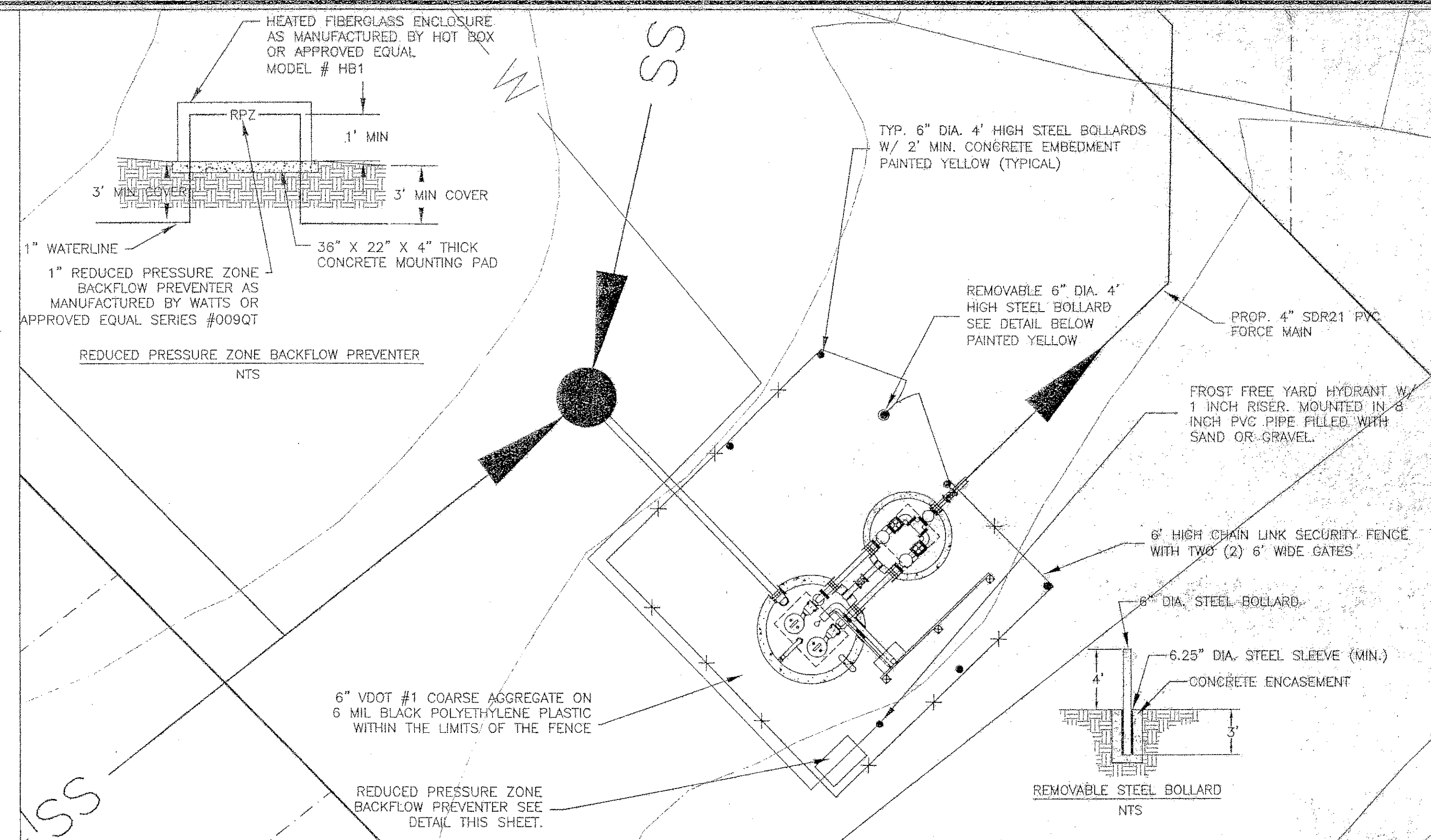




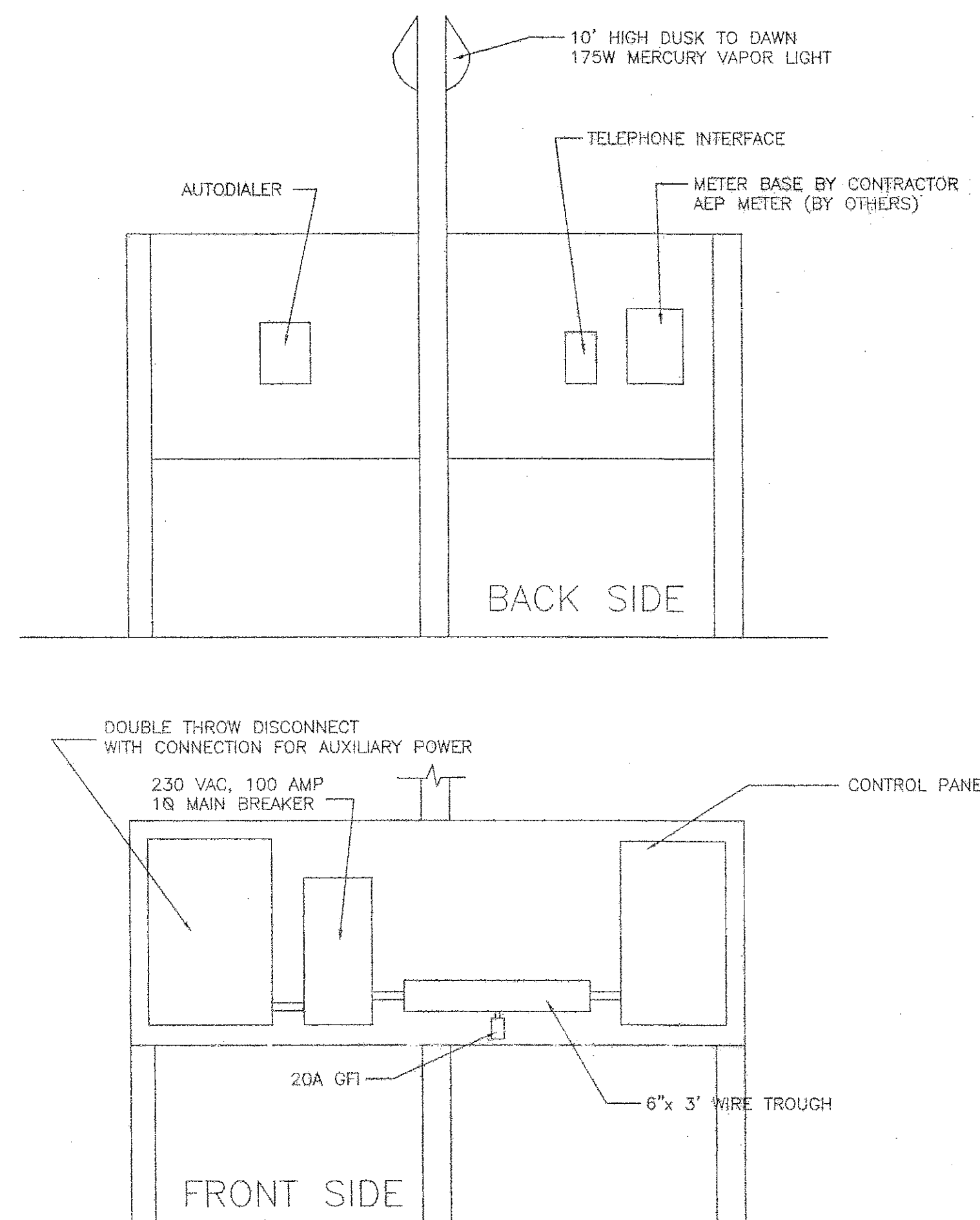
SEWER PUMP STATION

SCALE: 1" = 2'



SEWER PUMP STATION SITE PLAN

SCALE: 1" = 6'



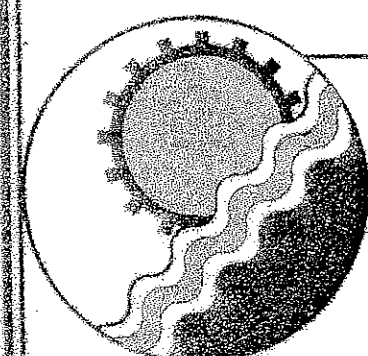
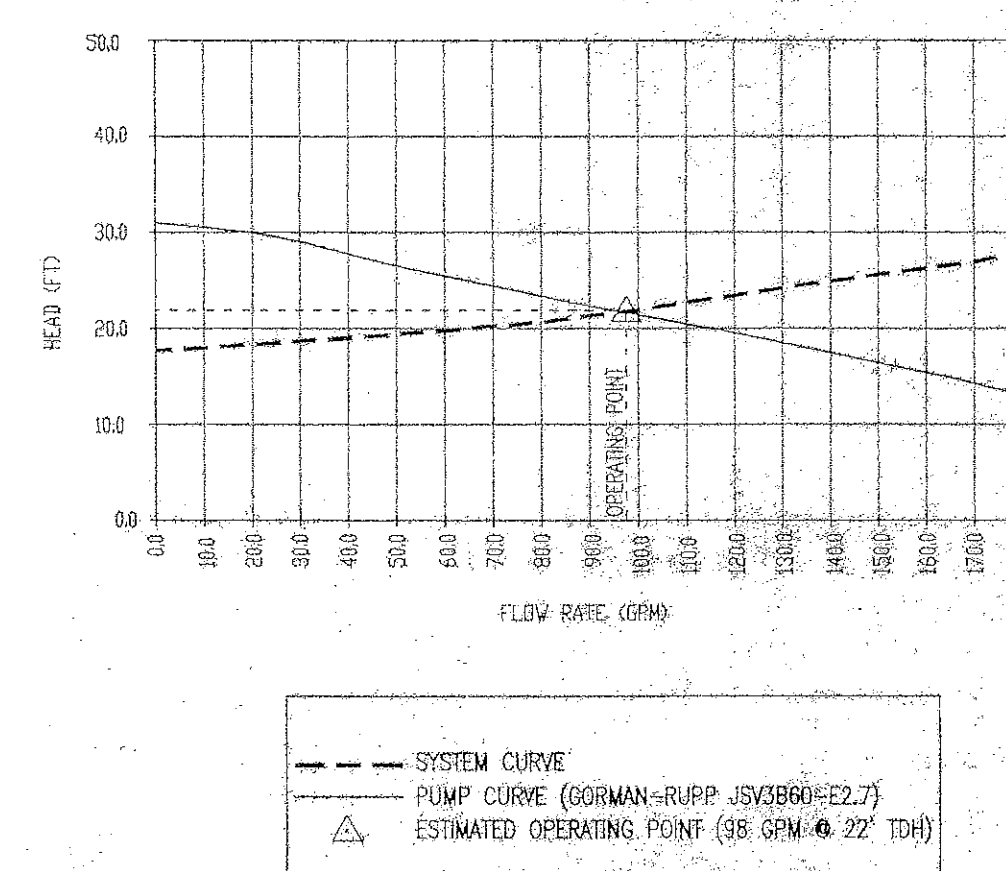
ELECTRICAL PANEL LAYOUT

SCALE: 1" = 2'

NOTES:

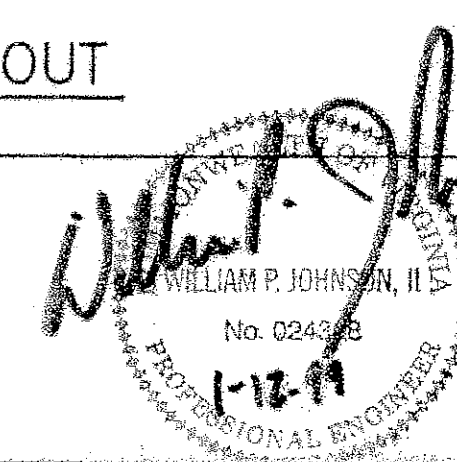
1. ALL PIPING TO BE CLASS 52 DUCTILE IRON UNLESS OTHERWISE NOTED.
2. THE CONCRETE WET WELL AND VALVE VAULT TO BE PRECAST CONCRETE SECTIONS WITH WALL SLEEVES FOR ALL PRESSURE PIPING AND FLEXIBLE BOOT FOR ALL OTHER PIPING.
3. EACH PUMP SHALL BE CAPABLE OF DELIVERING 95 GPM AGAINST 21.5' TDH (MINIMUM).
4. THE CONTRACTOR WILL BE RESPONSIBLE FOR COORDINATION WITH AEP TO PROVIDE PERMANENT POWER TO THE PUMP STATION.
5. THE CONTRACTOR WILL BE RESPONSIBLE FOR ANY TEMPORARY POWER TO THE PUMP STATION SITE.
6. ALL ELECTRICAL AND CONTROL EQUIPMENT SHALL BE INSTALLED ACCORDING TO NEC AND ALL OTHER APPLICABLE CODES OR STANDARDS.
7. THE CONTRACTOR SHALL SUPPLY TO THE OWNER A FULLY FUNCTIONING DUPLEX PUMP STATION MEETING THE REQUIREMENTS OF ROANOKE COUNTY AND THE INTENT OF THE CONTRACT DOCUMENTS INCLUDING ALL ELECTRICAL EQUIPMENT FROM POINT OF CONNECTION TO AEP METER, CONTROLS, MECHANICAL, AND ALL ASSOCIATED APPURTENANCES.
8. TESTING OF WET WELL TO BE DONE BY EXFILTRATION METHOD. A MAXIMUM 12 HOUR SOAK SHALL BE ALLOWED. ALLOWABLE LEAKAGE IS 6 GALLON PER 24 HOURS.
9. ALARM CONDITIONS SHALL PRODUCE AN AUDIBLE AND VISUAL NOTIFICATION AS WELL AS ACTIVATING THE AUTODIALER, WHICH SHALL HAVE BATTERY BACKUP. THE FOLLOWING CONDITIONS SHALL CAUSE THE AUTODIALER TO NOTIFY THE AUTHORITIES: 1) POWER FAILURE (DIALER SHALL BE PROVIDED WITH BATTERY BACKUP) 2) VOLTAGE LOSS 3) PUMP FAILED TO START 4) HIGH WATER ALARM 5) PUMP HIGH TEMPERATURE (TEMPERATURE SENSOR) 6) PUMP SEAL FAILURE (MOISTURE SENSOR).
10. DEVELOPER SHALL INSTALL PUMP STATION IN ACCORDANCE WITH ROANOKE COUNTY STANDARDS.

PUMP AND SYSTEM CURVES



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Drawn PSN
Designed PSN
Checked WPU
Approved WPU

BUCKLAND MILLS
ROANOKE COUNTY, VIRGINIA
SEWAGE PUMP STATION
PLAN AND DETAILS

AS SHOWN
JANUARY 1999
PROJECT: 98099
5 of 11

RC-7750