

PUMP STATION SHOP DRAWINGS

(All References are from PFM Volume III)

- ___ Route all drawings and descriptive literature to Public Utilities for review.
- ___ Pump station specifications provided.
- ___ Electrical and Control Components. (GT Div 43)
 - ___ All electrical contractors should submit their material concurrently. No consideration will be given to partial lists submitted at intervals.
 - ___ Drawing to show control panel layout, air schematic, elementary wiring, customer's connections, bill of materials.
 - ___ Descriptive literature/cut sheets of all materials proposed to include main and transfer switch, limit switches, over-temperature switches, generator receptacle, breakers, relays, contacts, liquid-level controls, heater, lights, FS boxes, wiring types, etc.
- ___ Fans - 2 required, both power, one for wet well and the other for pump house/dry well. (GT Div 44)
 - ___ Descriptive literature to include manufacturer, HP, volts, RPM, SP, capacity. (CFM)
 - ___ Static pressure calculated to ensure capacity.
- ___ Pumping Equipment (GT Div 44)
 - ___ Descriptive literature to include manufacturer, V-belt drive calculations (if applicable), air release valves, motor information, HP, RPM, voltage, etc.
 - ___ Features include passing 3" spherical solid.
 - ___ Test results and performance curves from manufacturer.
- ___ Structural (GT Div 36)
 - ___ Drawing required to show reinforcing bar details for entire pump station.
 - ___ Materials list.
 - ___ Structural calculations.

___ Piping Layout (GT Div 42)

___ Drawing (standard 24" x 36" sheet) to show cross sections of station with all pipes, valves, fittings labeled with a materials list included.

___ Literature required to include local manufacturer and parts list for valve specifications and backflow preventers.

___ Door, Frame and Hardware. (GT Div 38)

___ Drawing to show door dimensions, frame detail, astragal detail.

___ Materials list.

___ Descriptive literature on cylinders, hinges, bumper strip, cross-section of door.

___ Miscellaneous Metal Details. (GT Div 38)

___ Drawing required to show grab bar, pipe brackets, platform, grating, wall bolts, bar screen, ladder.

___ All miscellaneous metal in wet well to be aluminum or stainless steel.

___ Stairs and ladders must be OSHA certified.

___ Masonry. (GT Div 37)

___ Material list for brick, block, mortar, wall reinforcement.

___ Roofing. (GT Div 39)

___ As per Div. 39 of Technical Specifications or equal.

___ Concrete Mix Design. (GT Div 36)

___ Class A3, General Use Concrete that meets requirements of VDOT Road and Bridge Specifications.

___ Route actual test data to Cecil Sorey.

	7-day	28-day
bottom slab	_____	_____
walls 1st pour	_____	_____
2nd pour	_____	_____
top slab	_____	_____