

**PUMP MOTOR INFORMATION**

PUMP HORSEPOWER, HP	LL hp
CAPACITY GPM	LL gpm
TOTAL DEAD HEAD	LLL ft.
OPERATING RPM	LLL rpm
IMPELLER NO.	LLL mm
VOLTS	LL V
AMPS	LL A
PHASE	3
MANUFACTURER	MIR
MODEL NO.	MODEL
S/N #1	
S/N #2	

ALUMINUM PLATE WITH PUMP  
PLATE TO BE ATTACHED TO  
INSIDE OF CONTROL PANEL  
DOOR IN PLAN VIEW.

**CONTROL PANEL INFORMATION PLATES**

NOTE: THE CONTRACTOR SHALL INCLUDE A SCHEMATIC FOR THE CONTROL PANEL  
INSIDE OF THE PANEL DOOR. THE ABOVE PUMP AND MOTOR INFORMATION PLATE  
SHALL BE PERMANENTLY AFFIXED TO THE INSIDE OF THE PANEL DOOR.  
PUMP DUTY & ASSOCIATES AND MEET OR EXCEED MINIMUM NCSO SPECIFICATIONS (ATTACHED).

- NOTE: PUMP SHALL HAVE FLANGE JOINTS EXCEPT WHERE MECHANICAL JOINTS ARE NOTED.
- ALL HARDWARE IN WETWELL AND ABOVE GROUND PIPING SUCH AS SHALL BE 316 S/S.

**TYPICAL SUBMERSIBLE PUMP STATION PLAN WITHOUT SLAB (N.T.S.)**

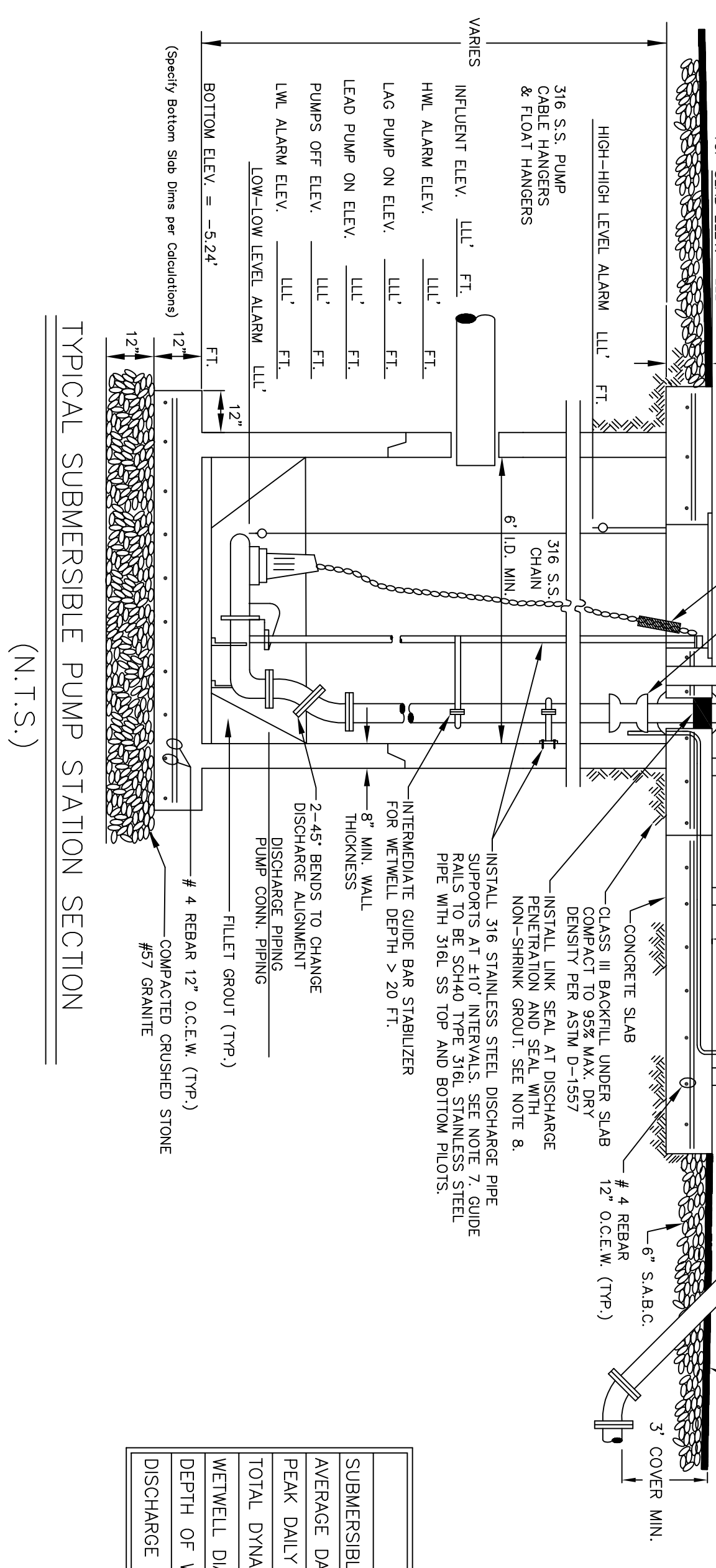
- MODEL NOTES:**
- ENGRS-HAUSER FLOW METER.
  - AGS PUMPS WITH CONTROL PANEL.
  - GA INDUSTRIES AIR RELEASE / VENT.
  - HALLWAY ACCESS HATCH WITH SAFETY GRATE.
  - MULTITRODE CONTROLLER WITH LEVEL SENSING PROBE.

ALL 3" FN VALVES ARE TO BE DEZURK OR A/K/ AS MANUFACTURED BY GA INDUSTRIES.

**KEYED NOTES**

- 1/2" INCH S/S NIPPLE, SS BALL VALVE, AND LIQUID-FILLED PRESSURE GAUGE.
- OPEN LEFT (COUNTER CLOCKWISE), PLUG BYPASS VALVE WITH RESILIENT SEAT FLANGING AND ALUMINUM EVERIGHT HOSE COUPLING WITH END CAP.
- 1/2" INCH S/S PIPING.

THE SITE IS LOCATED WITHIN FLOOD ZONE  
FLOOD MAP/FLOOD PLAN INFORMATION  
FLOOD MAP PANEL: \_\_\_\_\_



**TYPICAL SUBMERSIBLE PUMP STATION SECTION (N.T.S.)**

**PUMP STATION OPERATING PARAMETERS**

SUBMERSIBLE PUMPS	QTY=	(MODEL)
AVERAGE DAILY FLOW (GPM)	LL gpm ADF	
PEAK DAILY FLOW (GPM)	LL gpm PDF	
TOTAL DYNAMIC HEAD (TDH)	LL' TDH	
WETWELL DIAMETER	LL feet	
DEPTH OF WETWELL	LL feet (Top of slab to inside bottom)	
DISCHARGE PIPING	LL" inch Foremain (LL" $\phi$ Pump Discharge)	

**PUMP MODEL: \_\_\_\_\_**

NO. PUMPS: 2	IMPELLER DIA. LLL mm (LL")
MOTOR HP: LLL	MOTOR DIA. LLL mm (LL")
DISCHARGE $\phi$ : LL mm (LL")	RPM: LLL
MAX. DESIGN FLOW: LL gpm	VOLTAGE: LLL
MAX. DESIGN TDH: LL'	PHASE: 3

**STEEL PAINTING SCHEDULE (IMMERSION):**

**SURFACE PREPARATION:** REMOVE ALL OIL AND GREASE FROM METAL SURFACE PRIOR TO BLAST CLEANING. THE ENTIRE SURFACE SHALL BE BLAST CLEANED TO NEAR WHITE METAL CONDITION. THE CONTRACTOR SHALL BE RESPONSIBLE FOR OBTAINING AND MAINTAINING RECOMMENDED METHODS OUTLINED IN THE STEEL STRUCTURES PAINTING MANUAL SPECIFICATION SP-63.

1ST COAT: NEMEC SERIES 1 QUANTANE APPLIED AT 2.5 - 3.5 DRY MILS.

2ND COAT: NEMEC SERIES 66 HI-BUILD EPOXYOLINE APPLIED AT 4.0 - 6.0 DRY MILS.

3RD COAT: NEMEC SERIES 104 H.S. EPOXY APPLIED AT 3.0 - 5.0 DRY MILS.

PAINTING CONTRACTOR SHALL PERMIT OWNER'S REPRESENTATIVE AND/OR PAINT & COATING CONSULTANT TO INSPECT WORK FOR CONFORMANCE TO THIS SPECIFICATION. OWNER RESERVES THE RIGHT TO REJECT ALL WORK THAT DOES NOT COMPLY WITH THIS SPECIFICATION.

NEMEC CONTACT INFORMATION: NEMEC, INC.  
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**STEEL PAINTING SCHEDULE (NON-IMMERSION):**

**SURFACE PREPARATION:** REMOVE ALL OIL AND GREASE FROM METAL SURFACE PRIOR TO BLAST CLEANING. THE ENTIRE SURFACE SHALL BE BLAST CLEANED TO A COMMERCIAL GRADE. THE CONTRACTOR SHALL BE RESPONSIBLE FOR OBTAINING AND MAINTAINING RECOMMENDED METHODS OUTLINED IN THE STEEL STRUCTURES PAINTING MANUAL SPECIFICATION SP-63.

1ST COAT: NEMEC SERIES 1 QUANTANE APPLIED AT 2.5 - 3.5 DRY MILS.

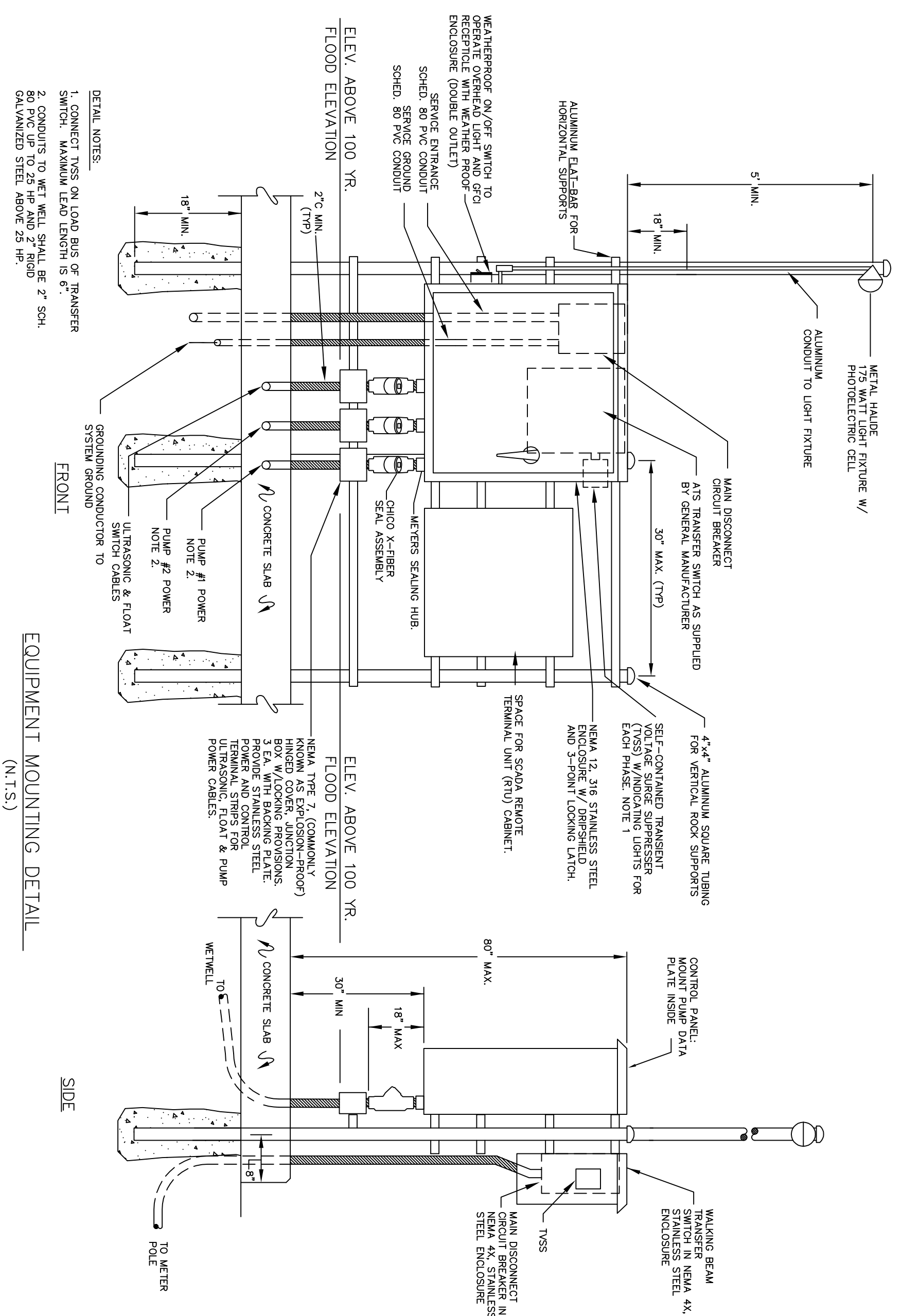
2ND COAT: NEMEC SERIES 66 HI-BUILD EPOXYOLINE APPLIED AT 4.0 - 6.0 DRY MILS.

3RD COAT: NEMEC SERIES 73 COLOR ENOURA-SHIELD APPLIED AT 3.0 - 5.0 DRY MILS.

4TH COAT: NEMEC SERIES 76 ENOURA-CLEAR APPLIED AT 1.0 - 2.0 DRY MILS.

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**EQUIPMENT MOUNTING DETAIL (N.T.S.)**

**GENERAL NOTES:**

- WETWELL LEVEL AND ALARMS TO BE CONTROLLED BY MULTITRODE CONTROLLER WITH LEVEL SENSING PROBE. THE MULTITRODE SHALL BE HOUSED IN THE CONTROL PANEL. THE UNIT SHALL BE 119VAC, 60 HZ, ISOLA TD 4-20 mA OUTPUT WITH 5 FORM 'C' RELAYS, WITH AN ON BOARD 24VDC FIELD BATTERY. PERMANENTLY MOUNTED SENSORS SHALL BE 50 FT. WELDED BY NORTH CHARLESTON SEWER DISTRICT (NCSO).
- ALL POWER TO THE PUMP STATION SHALL BE 3 PHASE POWER.
- THE SIZE OF PIPE AND THE LENGTH OF FITTINGS, COMPONENTS, VALVES, ETC., AND THE PAD ASSEMBLY, PAD SHALL BE FIELD VERIFIED WITH THE CONTRACTOR AND THE NCSO FIELD REPRESENTATIVE.
- CONTRACTOR SHALL INSTALL A HATCHWAY AND SAFETY GRATE BY HALLWAY.
- INSTALL SS JUNCTION BOXES AT 100 YEAR FLOOD LEVEL.
- PIPE STANCHIONS SHALL BE GRINNELL PIPE STANCHION S401E, FG-289 WITH STEEL YOKE AND NUTS. THE STANCHION SHALL BE SECURED USING 4 EA. 1/2" X 1/2" X 1/2" X 1/2" SS LUGS TO SUPPORT THE WEIGHT OF THE COMPONENTS WITHIN THE WETWELL AND VALVE ASSEMBLY. VERTICAL SUPPORT BASE PLATES, SADDLES, HARDWARE (ALL THREAD, STUDS, ETC.) ARE TO BE 304 SS AT A MINIMUM.
- CONTRACTOR TO INSTALL LINK SEAL AT DISCHARGE LINE PENETRATIONS OF TOP SLAB. THE LINK SEAL SHALL BE SUPPLIED WITH 316 STAINLESS STEEL HARDWARE. APPLY NON-SHRINK GROUT TO SEAL AROUND PIPE AT TOP AND BOTTOM OF SLAB PENETRATION.
- ALL PUMP STATION CONTROL PANELS SHALL BE EQUIPPED WITH A TERMINAL BLOCK WITH DRY CONTACTS TO ALLOW CONNECTION TO SCADA CONTROL PANEL. SEE ATTACHED SCHEMATIC.
- THE CONTRACTOR SHALL PROVIDE AND INSTALL SCADA ENCLOSURE (STANDARD MOTOROLA TYPE) FOR THE MOTOROLA A.C.E. UNIT PER NCSO).
- THE PUMP STATION CONTROLS SHALL BE EQUIPPED WITH MULTITRODE LEVEL SENSING PROBE.
- INSTALL OUTSIDE WEATHERPROOF GFCI, 120VAC OUTLET.
- MOUNT A LIQUID-FILLED PRESSURE GAUGE ON THE FORCE MAIN. DIVER IR EQUIVALENT 2-1/2" MINIMUM FACE DIAMETER. IT SHALL BE LOCATED AS PER MANUFACTURER'S RECOMMENDATIONS.
- PUMPS SHALL HAVE LIFTING HANDLES.
- ENGINEER SHALL VERIFY AND PROVIDE FOR 3-PHASE POWER TO PUMP STATION.