

PUMP NOTES:
3,000-GAL. DOSING CHAMBER

1. GENERAL- INSTALL A COMPLETE PUMPING SYSTEM CONSISTING OF 3" (NO.) SUBMERSIBLE SEWAGE PUMPS AND MOTORS, SLIDE RAIL SYSTEM DISCHARGE PIPING AND VALVES, FLOAT SWITCH LEVEL CONTROLS, PRECAST CONCRETE PUMP CHAMBER AND ELECTRICAL, INSTRUMENTATION & CONTROLS AS SHOWN ON ELECTRICAL DRAWINGS. ALL EQUIPMENT SHALL BE INSTALLED IN ACCORDANCE WITH THE MANUFACTURER'S RECOMMENDATIONS AND THE CONTRACTOR SHALL PROVIDE A SUFFICIENT QUANTITY OF CLEAN WATER TO CONDUCT TWO PUMP OPERATION TESTS, AND 24 HOUR EXFILTRATION TEST FOR THE 3,000 GALLON PUMP CHAMBER.

2. PUMP CHAMBER- THE PUMP CHAMBER SHALL BE A REINFORCED PRECAST CONCRETE STRUCTURE. CONSTRUCTION JOINTS AND BRACKETS SHALL BE SEALED WITH LINK SEALS AT ALL PIPE OPENINGS. EQUIPMENT WITHIN PUMP CHAMBER IS NOT REQUIRED TO BE EXPLOSION PROOF.

3. PUMP AND MOTOR- BOTH PUMPS AND MOTORS SHALL BE METERS SUBMERSIBLE SEWAGE PUMP CAPABLE OF PASSING 2-INCH SOLIDS. PUMP AND MOTOR SHALL BE FULLY SUBMERSIBLE AND SHALL OPERATE AT 870 OPERATING RPM. PUMPS SHALL BE RATED AS FOLLOWS:

H.P. 5

RATE 628 GPM

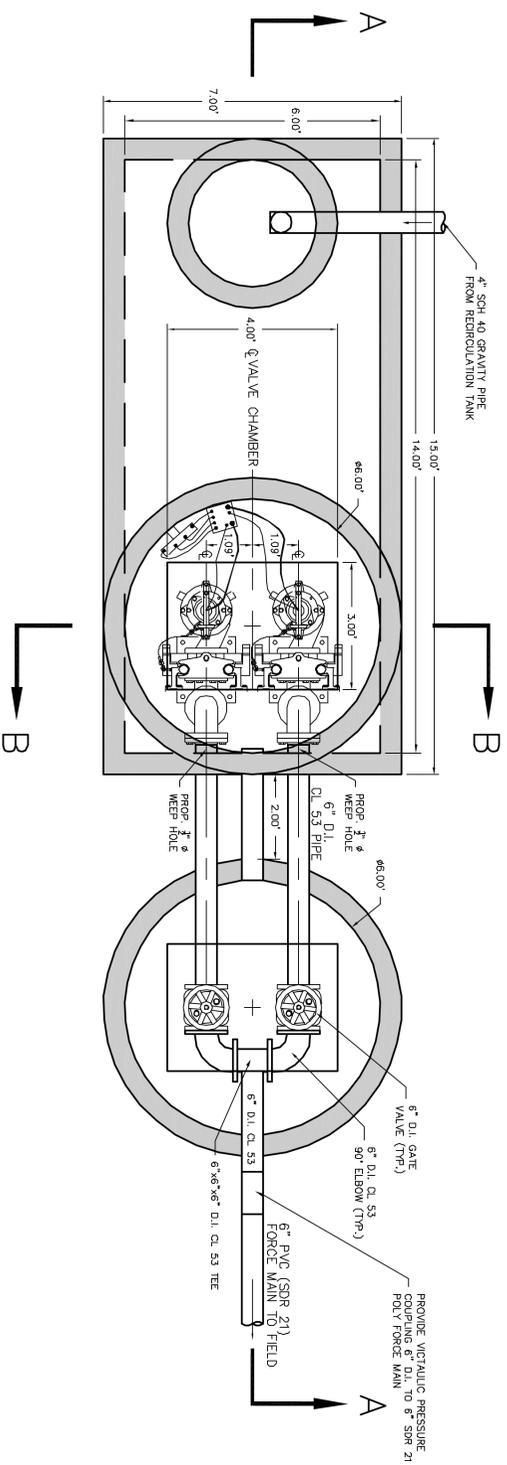
TH 20 FT

MODEL METERS AUCSSM-43 (SPN EQUIPMENT, INC. (908) 224-9020)

PUMPS SHALL BE FACTORY TESTED PRIOR TO SHIPMENT AND A CERTIFIED FACTORY TEST REPORT SHALL BE PROVIDED TO THE ENGINEER.

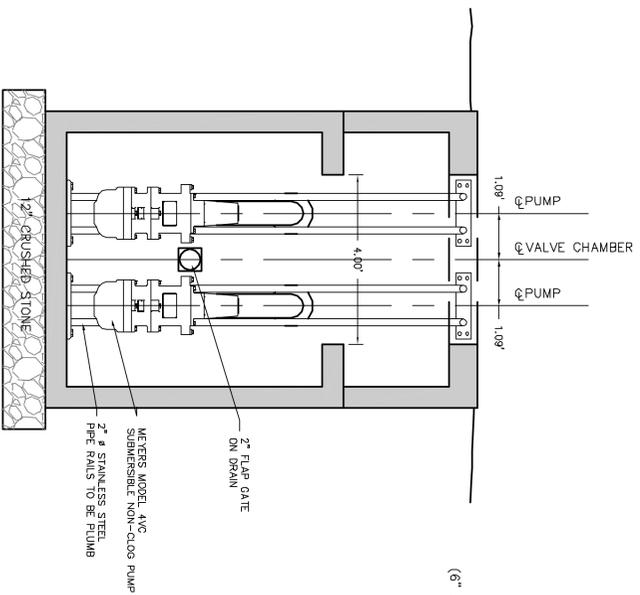
4. PIPING- 6-INCH DUCTILE IRON PIPE AND FITTING SHALL BE USED FOR INTERIOR PUMP CHAMBER AND VALVE PIT DISCHARGE PIPING AND FITTINGS. THE SEWAGE FORCE MAIN SHALL BE 6-INCH DIAMETER SDR 35 DISCHARGE PIPING WITHIN THE PUMP CHAMBER AND VALVE PIT SHALL INCLUDE THE FOLLOWING:

- 1) IN THE VERTICAL POSITION, A 6-INCH CHECK VALVE
 - 2) IN THE HORIZONTAL POSITION, A 6-INCH GATE VALVE
- ALL PIPING OUTSIDE THE PUMP CHAMBER AND VALVE PIT SHALL BE INSULATED (SEE NOTE 8)
- PROPOSED FINAL GRADE SHALL BE INSULATED (SEE NOTE 8)
5. PIPE INSULATION- WHERE FORCE MAIN IS LESS THAN 4-FEET BELOW THE PROPOSED GRADE, IT SHALL BE COVERED WITH 4-INCH THICK POLYSTYRENE WAKFAPED INSULATION.



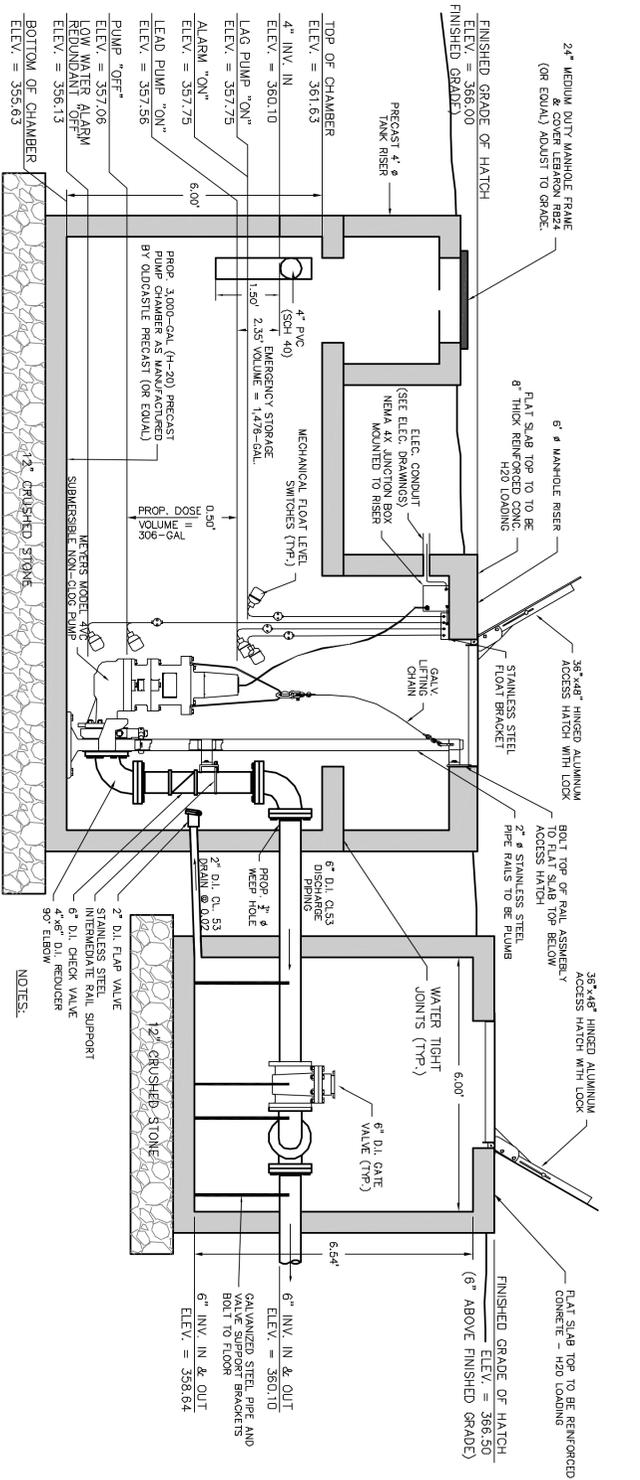
3,000-GAL. DOSING CHAMBER PLAN VIEW

SCALE: 1" = 2'



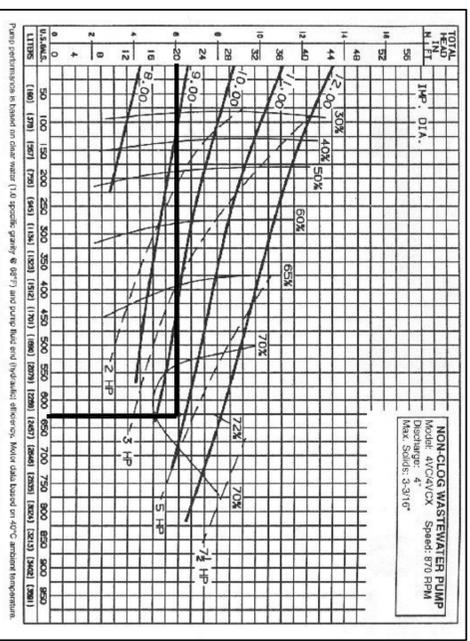
SECTION B-B

SCALE: 1" = 2'



SECTION A-A

SCALE: 1" = 2'



EMERSON SCHOOL - PROPOSED 3,000-GAL DOSING CHAMBER
 50 MECHANIC STREET
 BOLTON, MASSACHUSETTS

PREPARED FOR:	TOWN OF BOLTON P.O. BOX 228 BOLTON, MA 01740	TEL: (978) 779-2297	DATE: MARCH 31, 2004
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1	7/16/04	DEP COMMENTS	GSR
2	1/13/05	DEP COMMENTS	LRB
3	7/16/04	DEP COMMENTS	GSR
4			
5			



1092 MAIN STREET, P.O. BOX 428, BOLTON, MA, 01740
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