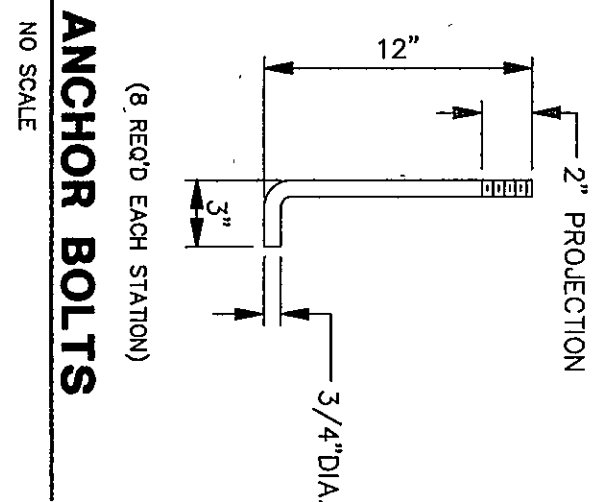
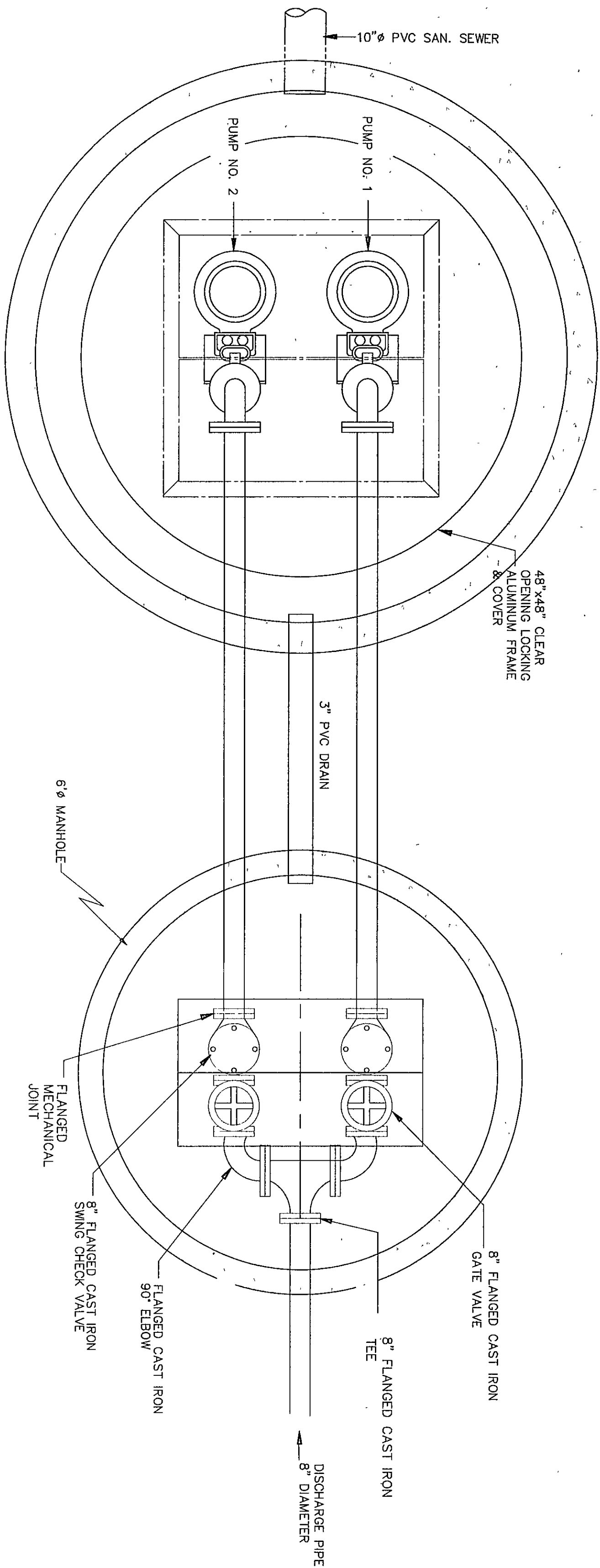


FRONT VIEW CONTROL CENTER



ANCHOR BOLTS  
NO SCALE



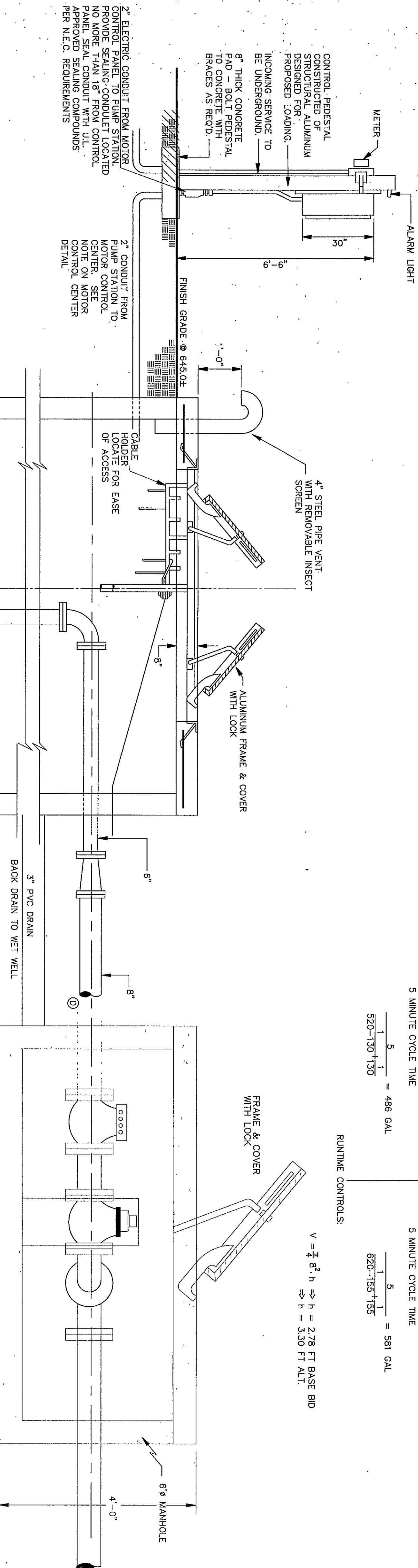
LEFT STATION PLAN  
NO SCALE

LOADING	ALTERNATE BID
SCHOOL 2200 STUDENTS = 130 GPM (25 GPD/STUDENT) PEAK FACTOR: 4 = 520 GPM h = 30.6 FT hazen-williams DESIGN LOAD = 520 GPM STATIC HEAD: 640.0-518.5 = 21.5 FT. TDH = 61 FT. 2 MINUTE RUN TIME @ PEAK 2 (320 GPM) = 1040 GAL = 140 FT <sup>3</sup> 5 MINUTE CYCLE TIME	DUNE AND ESTATES 17 LOTS FUTURE DEVELOPMENT 100 LOTS = 310 GPD/LOT = 2150 GPM SCHOOL PEAK FACTOR: 4 = 621 GPM = 1.39 CFS h = 54.5 FT hazen-williams DESIGN LOAD = 620 GPM STATIC HEAD: 640.0-518.00 = 24.0 FT. TDH = 78.5 FT. 2 MINUTE RUN TIME @ PEAK 2 (620 GPM) = 1240 GAL = 166 FT <sup>3</sup> 5 MINUTE CYCLE TIME
BASE BID 1 5 = 486 GAL 520-130-130	ALTERNATE BID 1 5 = 581 GAL 620-135-135

RUNTIME CONTROLS.

$$V = \frac{2}{3} h \Rightarrow h = 2.28 \text{ FT BASE BID}$$

$$\Rightarrow h = 3.30 \text{ FT ALT.}$$



ALTERNATE BID

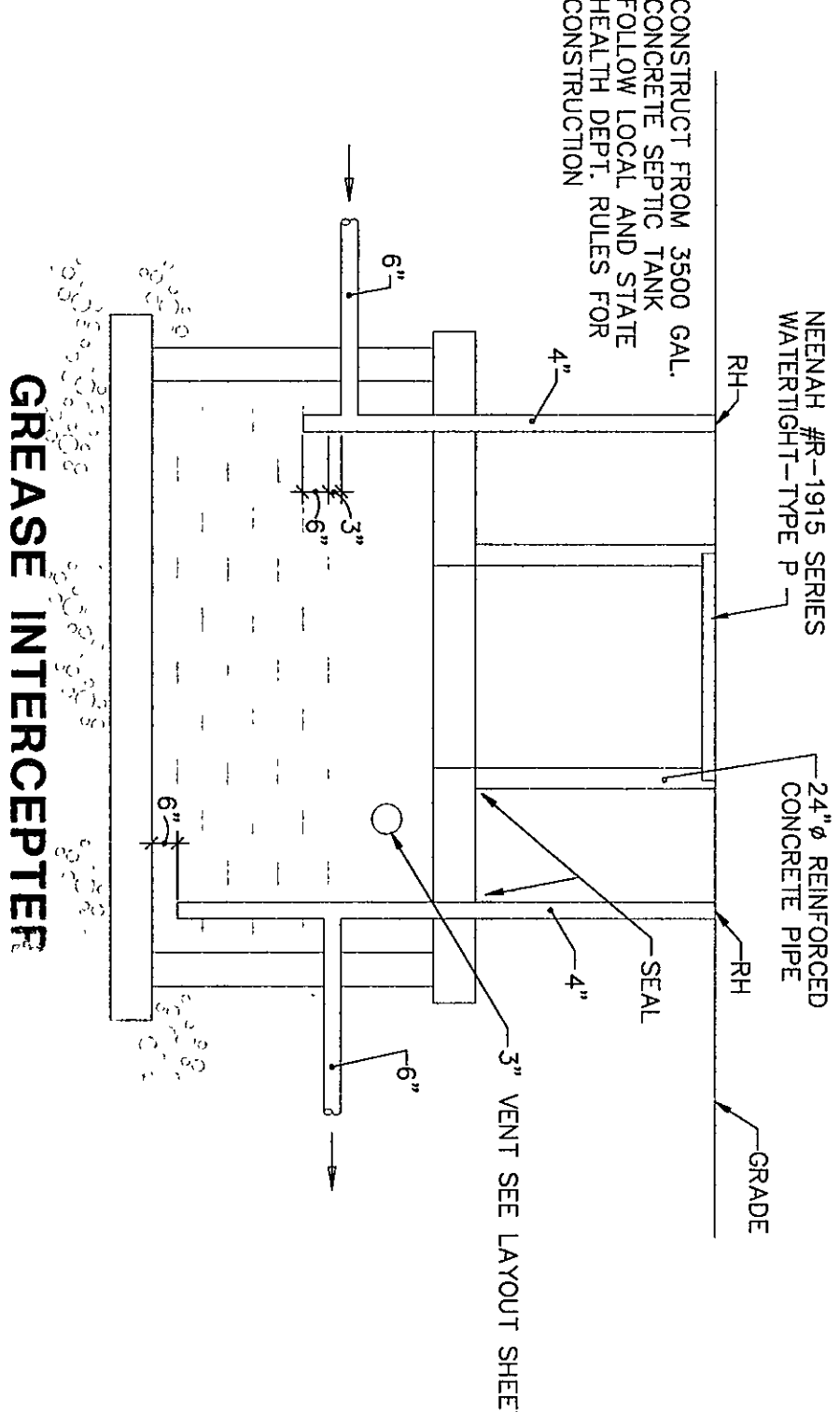
BASE BID

INVERT TO INFLUENT	INVERT TO INFLUENT
HIGH WATER ALARM/621.53	HIGH WATER ALARM/621.53
PUMPS ON/621.00	PUMPS ON/621.00
PUMPS OFF/617.70	PUMPS OFF/619.53
LOW WATER ALARM/617.00	LOW WATER ALARM/619.00

SECTION

VALVE PIT

GREASE TRAP SHALL HAVE 3500 GAL. CAPACITY. DIMENSIONS SHALL BE 6'-0" X 6'-0" X 6'-0". THE TRAP SHALL BE INSTALLED IN THE VALVE PIT. REFER TO S12 SERIES SHEETS FOR DETAILS.



GREASE INTERCEPTER

FORCE MAIN CONSTRUCTION NOTES.

1. THE FORCE MAIN SHALL BE CONSTRUCTED OF 8" DUCTILE IRON. THE LINE SHALL BE INSTALLED AT THE APPROXIMATE LOCATIONS AS SHOWN ON THE DRAWINGS. THE EXACT LOCATION FOR THE PLACEMENT OF THE RELIEF VALVES SHALL BE FIELD DETERMINED. A HIGH POINT AND APPROVED BY AN AUTHORIZED REPRESENTATIVE OF FANNING/HOWEY ASSOCIATES.
2. THE FORCE MAIN SHALL ENTER THE NEW MANHOLE AT A POINT NOT MORE THAN 2 FEET ABOVE THE INVERT OF THE RECEIVING MANHOLE.
3. THE FORCE MAIN SHALL BE HYDROSTATICALLY TESTED FOR LEAKS AT 150 PSF FOR 2 HOURS. THE FORCE MAIN SHALL BE REPAIRED AND THE TEST REDONE IF LEAKS ARE DETECTED. THE LINE SHALL NOT BE BURIED UNTIL THE PRESSURE TESTING IS APPROVED.

LIFT STATION CONSTRUCTION NOTES:

1. THE CONTRACTOR SHALL FURNISH AND INSTALL ONE AUTOMATIC DUPLEX SUBMERSIBLE PUMP. THE PUMP SHALL BE INSTALLED IN THE LIFT STATION. THE PUMP SHALL BE INSTALLED IN THE LIFT STATION. THE PUMP SHALL BE INSTALLED IN THE LIFT STATION. THE PUMP SHALL BE INSTALLED IN THE LIFT STATION.
2. THE PUMP SHALL BE MANUFACTURED BY BARNES AND IN ACCORDANCE WITH THE FOLLOWING DESIGN CRITERIA:  
BASE BID  
MODEL: 65E18034L  
MOTOR: 1/2 HP  
230 VOLTAGE  
1750 RPM  
1 1/2" DISCHARGE  
1 1/2" INLET  
1 1/2" INLET  
1 1/2" INLET

3. THE PUMP SHALL BE MANUFACTURED BY BARNES AND IN ACCORDANCE WITH THE FOLLOWING DESIGN CRITERIA:  
BASE BID  
MODEL: 65E18034L  
MOTOR: 1/2 HP  
230 VOLTAGE  
1750 RPM  
1 1/2" DISCHARGE  
1 1/2" INLET  
1 1/2" INLET  
1 1/2" INLET
4. EACH PUMP SHALL BE BARNES SUBMERSIBLE WASTEWATER PUMPS CAPABLE OF PUMPING RAW AND PASS SPHERICAL SOLIDS UP TO 2" IN DIAMETER. GRINDER PUMPS WILL NOT BE ACCEPTED. TYPE: SUITABLE FOR 3 PHASE, 60-CYCLE, 230 VOLT, 4 WIRE ELECTRICAL SERVICE.
5. THE PUMP MOTORS SHALL BE VERTICAL, SOLID SHAFT, VEMA B BASED EQUIPMENT. COGE INDUCTION TYPE. SUITABLE FOR 3 PHASE, 60-CYCLE, 230 VOLT, 4 WIRE ELECTRICAL SERVICE.

6. THE MOTORS SHALL BE SECURED IN PLACE BY STANDARD THREADED FASTENERS AND SHALL BE REMOVED BY THE CONTRACTOR. THE MOTORS SHALL BE REMOVED BY THE CONTRACTOR. THE MOTORS SHALL BE REMOVED BY THE CONTRACTOR. THE MOTORS SHALL BE REMOVED BY THE CONTRACTOR.
7. EACH PUMP SHALL BE EQUIPPED WITH AN ADDITIONAL 40 FEET OF SUBMERSIBLE DUCTILE IRON. THE PUMP SHALL HAVE MOISTURE AND TEMPERATURE SENSORS.
8. THE PUMP SHALL BE EQUIPPED WITH AN ADDITIONAL 40 FEET OF SUBMERSIBLE DUCTILE IRON. THE PUMP SHALL HAVE MOISTURE AND TEMPERATURE SENSORS.

9. A SLIDE AWAY COUPLING SHALL BE PROVIDED FOR EACH PUMP TO ALLOW THE PUMP TO BE INSTALLED OR REMOVED WITHOUT REQUIRING PERSONNEL TO ENTER THE WET WELL. THE COUPLING SHALL BE INSTALLED IN THE WET WELL. THE COUPLING SHALL BE INSTALLED IN THE WET WELL. THE COUPLING SHALL BE INSTALLED IN THE WET WELL.
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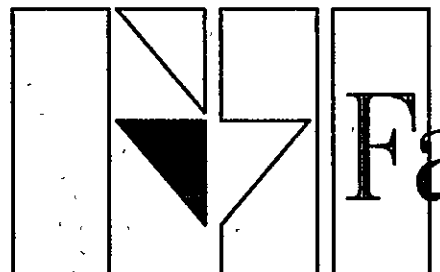
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# LIFT STATION DETAILS

DRAWN BY: JDW COMM. NO: 95067.00  
CHECKED BY: JDW DATE: APRIL 21, 1997

SU2.11

REVISIONS NO. DATE



Fanning/Howey  
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THE NEW  
CHESTERTON HIGH SCHOOL  
FOR THE  
DUNELAND SCHOOL CORPORATION  
CHESTERTON, INDIANA

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