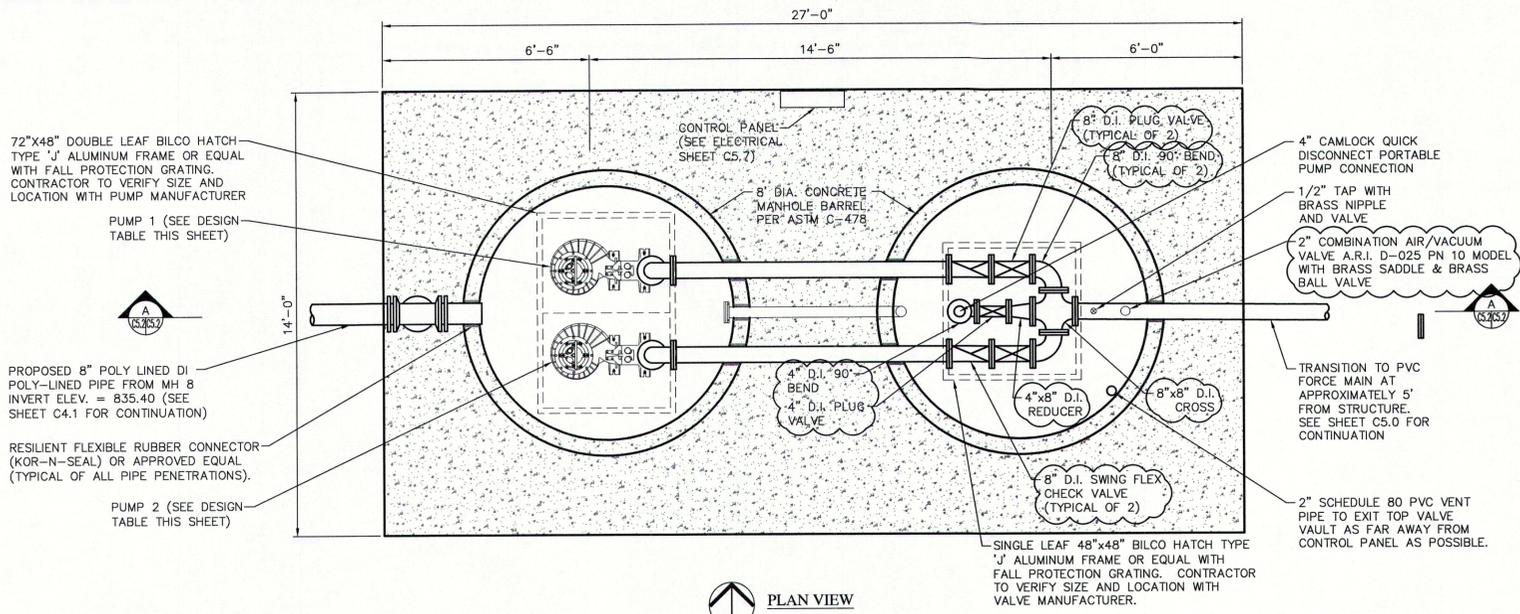
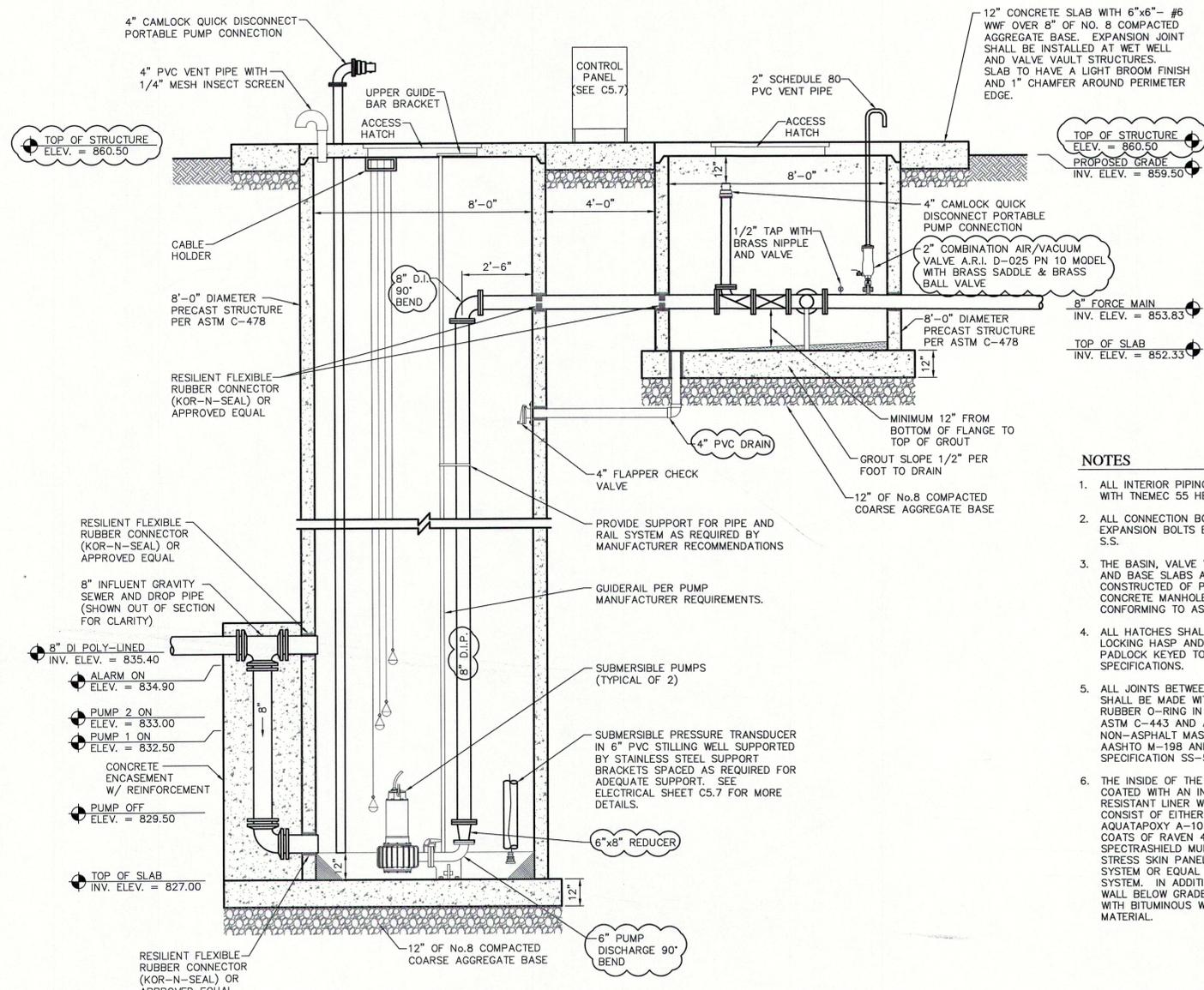


Plot Date: Feb 06, 2019 Plot Time: 6:31am File Name: W:\CalAtlantic Homes\2017-271-S CalAtlantic-Madison Co SR13\Design\CAD\17271\_Forcemain\_Plan.dwg Layout: C5.4 By: sdwney

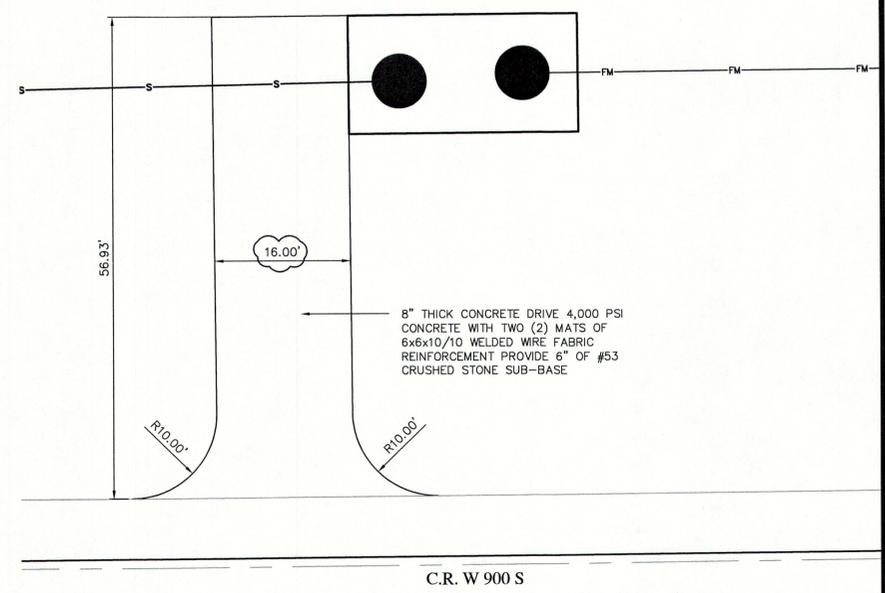


PLAN VIEW



SECTION A-A

PROPOSED LIFT STATION  
SCALE: 3/8" = 1'-0"



PROPOSED LIFT STATION SITE PLAN  
SCALE: 1" = 10'

NOTES

- ALL INTERIOR PIPING SHALL BE COATED WITH TMEC 55 HB EPOXY OR EQUAL.
- ALL CONNECTION BOLTS, ANCHOR BOLTS, EXPANSION BOLTS ETC. SHALL BE 304 S.S.
- THE BASIN, VALVE VAULT, FLAT TOPS AND BASE SLABS ARE TO BE CONSTRUCTED OF PRECAST REINFORCED CONCRETE MANHOLE SECTIONS CONFORMING TO ASTM C-478.
- ALL HATCHES SHALL BE PROVIDED WITH LOCKING HASP AND PADLOCK WITH PADLOCK KEYS TO FCRWD SPECIFICATIONS.
- ALL JOINTS BETWEEN PRECAST SECTIONS SHALL BE MADE WITH AN APPROVED RUBBER O-RING IN ACCORDANCE WITH ASTM C-443 AND A 1/2 INCH DIAMETER NON-ASPHALT MASTIC CONFORMING TO AASHTO M-198 AND FEDERAL SPECIFICATION SS-521-A.
- THE INSIDE OF THE WETWELL IS TO BE COATED WITH AN INTERNAL CORROSION RESISTANT LINER WHICH SHOULD CONSIST OF EITHER A PRIMER COAT OF AQUATAPOXY A-10 FOLLOWED WITH TWO COATS OF RAVEN 405 LINER, SPECTRASIELD MULTI-COMPONENT STRESS SKIN PANEL WETWELL LINER SYSTEM OR EQUAL EPOXY COATING SYSTEM. IN ADDITION, THE OUTSIDE WALL BELOW GRADE IS TO BE COATED WITH BITUMINOUS WATERPROOFING MATERIAL.

SPRINGBROOK LIFT STATION DESIGN INFORMATION

ITEM	PUMP SCHEDULE
MANUFACTURER	HYDROMATIC
PUMP MODEL	H4QXP
QUANTITY	TWO (2)
IMPELLER SIZE	11.88 INCHES
MOTOR HP	30 HP
RPM	1,750
ELECTRIC SERVICE	3 PHASE, 480V, 4 WIRE
ANTICIPATED OPERATING POINT*	420 GPM AT 137 FT TDH
PUMP EFFICIENCY	48.28%
DISCHARGE CONNECTION	4-INCH
SHUT-OFF HEAD	178 FEET

(\* ) THE ACTUAL DESIGN CONDITIONS FOR SPRINGBROOK IS 300 GPM AT 144 FEET TDH. HOWEVER, THIS LIFT STATION IS PROPOSED TO CONNECT TO A COMMON FORCE MAIN WHICH COMBINES FLOWS FROM OTHER LIFT STATIONS AND INDIVIDUAL GRINDER PUMPS. THEREFORE, THE PUMP MODEL LISTED ABOVE WAS SELECTED IN ORDER TO CONTINUE TO PUMP ADEQUATELY AND OVERCOME HIGHER PRESSURES IF THE OTHER LIFT STATIONS AND/OR INDIVIDUAL GRINDER PUMPS ARE OPERATING SIMULTANEOUSLY.

REVISIONS		
DATE	DESCRIPTION	BY
1/10/19	REV. PER FCRWD & IDEM COMMENTS	DMW



SPRINGBROOK SECTION 1A  
 PROPOSED LIFT STATION PLAN AND SECTION



DRAWN BY TO  
CHECKED BY SD  
DATE NOVEMBER 8, 2018  
SCALE AS SHOWN  
JOB NUMBER 2017-271-A

C5.4  
PROPOSED LIFT STATION PLAN AND SECTION