

SYSTEM 1B LOCATION

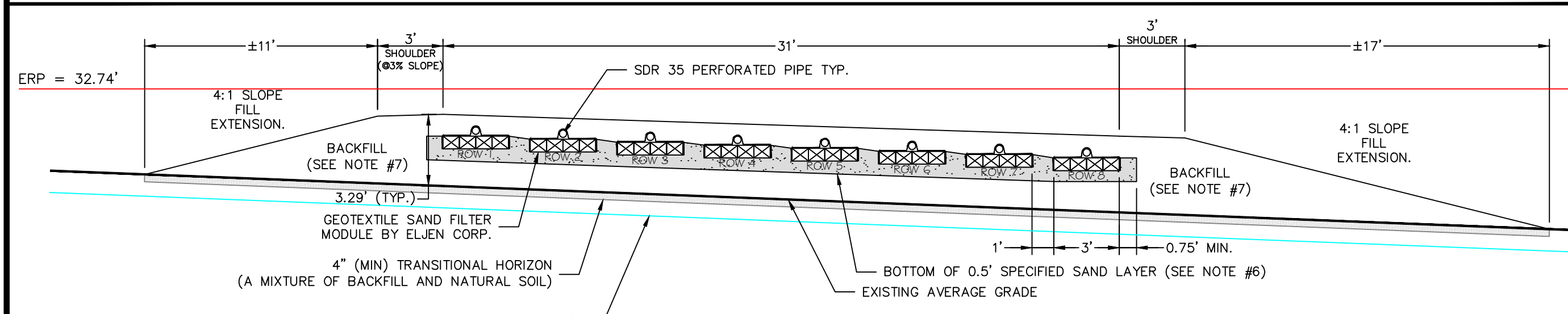
DISTANCES:	AA	BB	CC	DD
ELEVATION REFERENCE POINT (ERP)	104.1'	157.9'	117.8'	167.3'
REFERENCE POINT A	108.2'	164.0'	112.2'	166.8'
REFERENCE POINT B	107.3'	160.0'	98.7'	154.3'

SYSTEM 1A LOCATION

DISTANCES:	A	B	C	D
ELEVATION REFERENCE POINT (ERP)	41.5'	87.3'	68.9'	103.2'
REFERENCE POINT A	34.3'	90.3'	45.4'	95.1'
REFERENCE POINT B	50.9'	91.7'	27.7'	81.1'

- SEPTIC SYSTEM NOTES:**
- BOTH SYSTEMS CONSIST OF 11 ROWS GEOTEXTILE SAND FILTERS SEPARATED BY 1 FOOT.
 - THIS SYSTEM COMPLIES WITH AND MUST BE INSTALLED IN ACCORDANCE WITH THE GEOTEXTILE SAND FILTER DESIGN MANUAL (BY ELJEN CORPORATION), AND ALL MAINE SUBSURFACE RULES.
 - INSTALLATION SHALL NOT TAKE PLACE WHEN THE GROUND IS FROZEN OR SATURATED.
 - TOPSOIL OR ORGANICS MUST BE REMOVED FROM LEACH FIELD AND FILL SLOPE EXTENSIONS PRIOR TO FILL PLACEMENT.
 - THE TOP OF THE NATURAL SOIL SHALL BE SCARIFIED BY ROTOTILLER, HARROW OR BACKHOE TEETH.
 - THERE SHALL BE 4" MINIMUM TRANSITIONAL HORIZON BETWEEN BACKFILL AND THE NATURAL SOIL WHICH IS A MIXTURE OF BACKFILL AND NATURAL SOIL. THE TRANSITIONAL HORIZON SHALL BE UNDER THE DISPOSAL SYSTEM AND EXTEND FROM FILL EXTENSION TO FILL EXTENSION.
 - THE 6" SAND LAYER BELOW THE MODULES SHALL BE MEDIUM TO COARSE SAND MEETING ASTM C33 SPECIFICATIONS. FOR COMPLETE SPECIFICATIONS SEE GEOTEXTILE SAND FILTER DESIGN MANUAL.
 - BACKFILL SHALL BE GRAVELLY COARSE SAND AND SHALL MEET SPECIFICATIONS OF TABLE 11A OF THE SUBSURFACE RULES.
 - FINAL GRADES SHALL BE LOAMED (4" MIN), MULCHED AND SEEDDED.
 - ALL SEPTIC TANKS SHALL HAVE ACCESS OPENINGS, CONSISTING OF CAST IRON FRAMES AND SOLID COVERS, LOCATED AT FINISHED GRADE AND HAVE A WATERTIGHT RISER (PER SECTION 6F(2) OF THE SUBSURFACE CODE) OF THE SAME MATERIALS AS THE SEPTIC TANK. H-20 CONSTRUCTION IS REQUIRED IN TRAFFIC AREAS. SEE SECTION 6F(3) OF THE SUBSURFACE CODE.
 - THE DRILLING OF ANY WELLS WITH WATER USAGE OF 2000 OR MORE GALLONS PER DAY OR PUBLIC WATER SYSTEM WELLS SHALL BE A MINIMUM OF 150' FROM ANY WATER TIGHT SEPTIC TANK AND 300' FROM ANY LEACH FIELD.
 - THE DRILLING OF ANY WELLS WITH WATER USAGE UNDER 2000 GALLONS PER DAY OR NOT PUBLIC WATER SYSTEM WELLS SHALL BE A MINIMUM OF 100' FROM ANY WATER TIGHT SEPTIC TANK AND 300' FROM ANY LEACH FIELD.
 - THIS SYSTEM IS NOT DESIGNED FOR BACKWASH FROM ANY WATER TREATMENT SYSTEM.
 - THE SYSTEMS SHALL NOT BE DRIVEN ON.

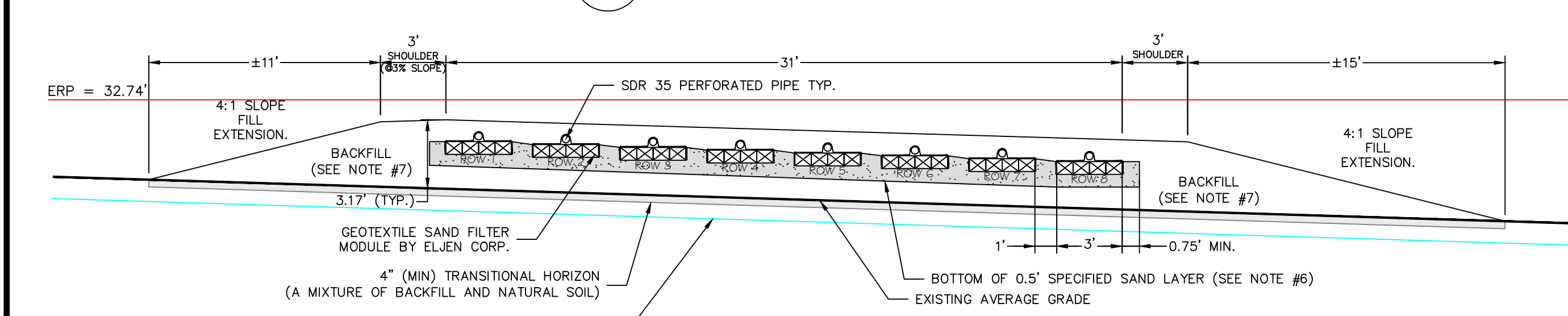
ENGINEERED SEPTIC FIELD SCHEMATIC
SCALE: 1" = 20'



SYSTEM 1A ELEVATIONS

ELEV. REF. PT. (ERP)	32.74'							
FINISHED GRADE	31.57'	31.43'	31.29'	31.15'	31.01'	30.87'	30.73'	30.57'
TOP OF IN-DRAIN UNIT	30.57'	30.43'	30.29'	30.15'	30.01'	29.87'	29.73'	29.57'
BOTTOM OF IN-DRAIN UNIT	29.97'	29.83'	29.69'	29.55'	29.41'	29.27'	29.13'	28.97'
BOTTOM OF SAND	29.49'	29.33'	29.69'	29.05'	28.91'	28.77'	28.63'	28.47'

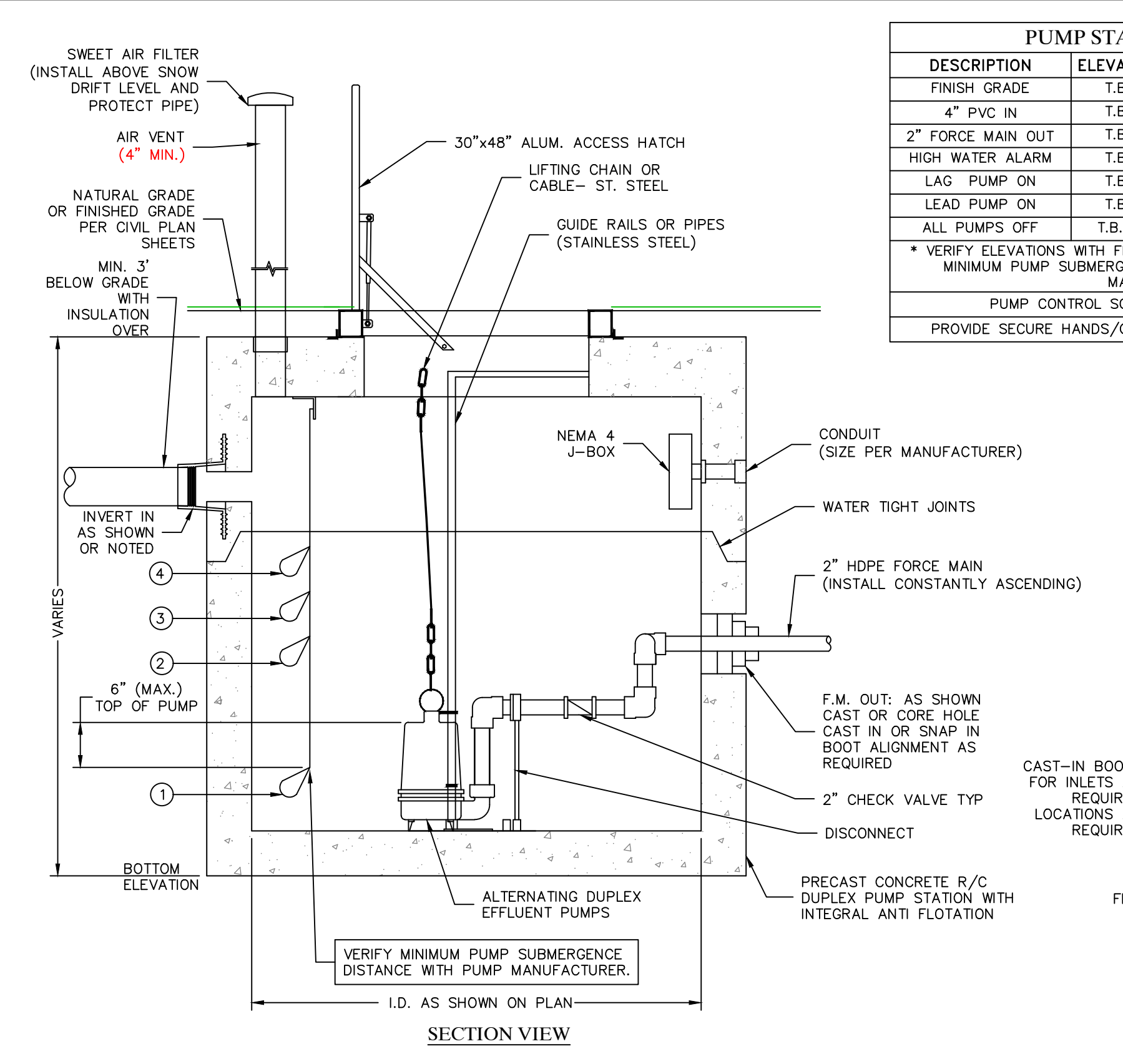
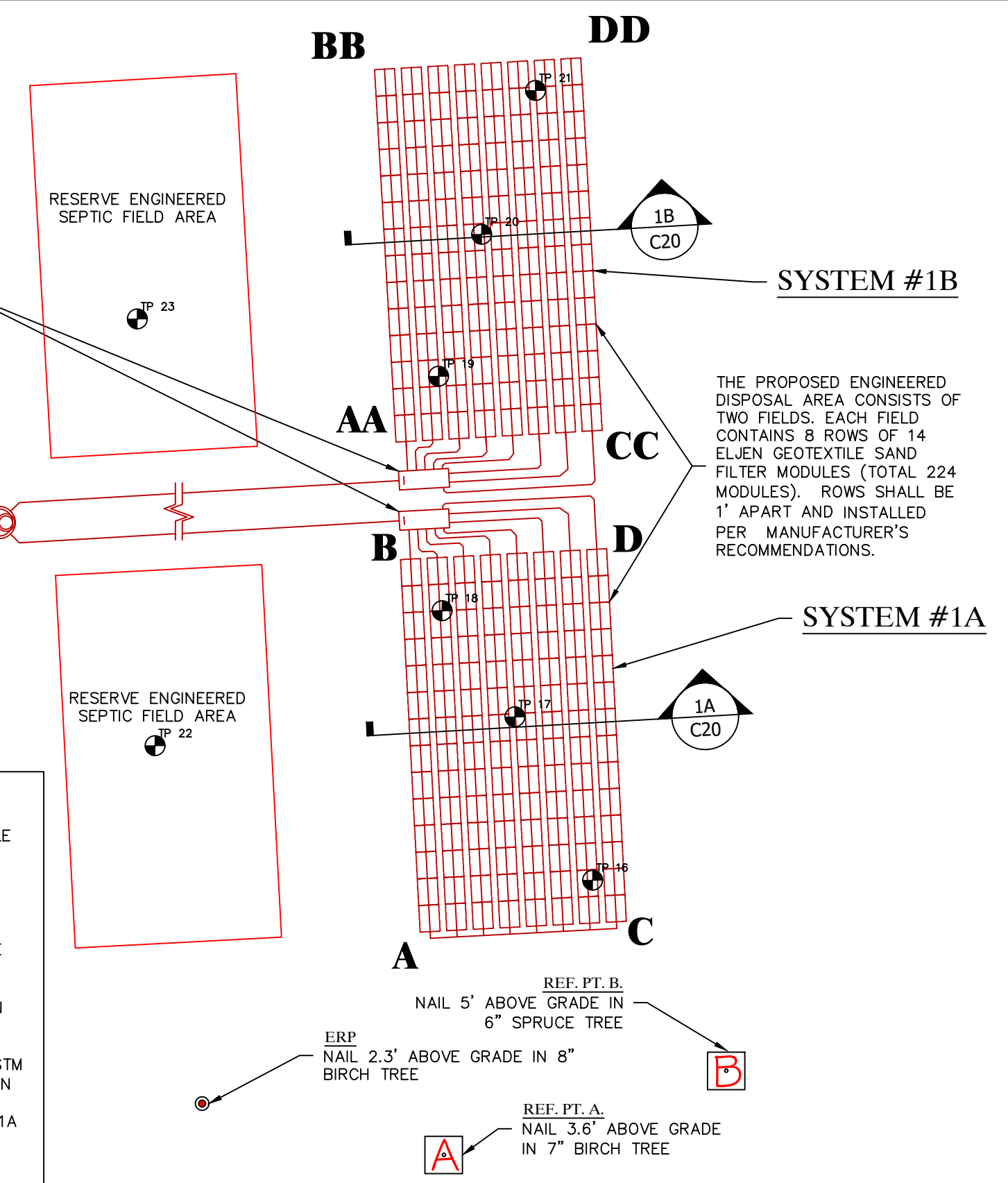
SYSTEM 1A SCHEMATIC CROSS SECTION
SCALE: 1" = 20'



SYSTEM 1B ELEVATIONS

ELEV. REF. PT. (ERP)	32.74'							
FINISHED GRADE	31.82'	31.69'	31.56'	31.43'	31.3'	31.17'	31.04'	30.91'
TOP OF IN-DRAIN UNIT	30.82'	30.69'	30.56'	30.43'	30.3'	30.17'	30.04'	29.91'
BOTTOM OF IN-DRAIN UNIT	30.22'	30.09'	29.96'	29.83'	29.7'	29.57'	29.44'	29.31'
BOTTOM OF SAND	29.72'	29.59'	29.46'	29.33'	29.2'	29.07'	28.94'	28.81'

SYSTEM 1B SCHEMATIC CROSS SECTION
SCALE: 1" = 20'



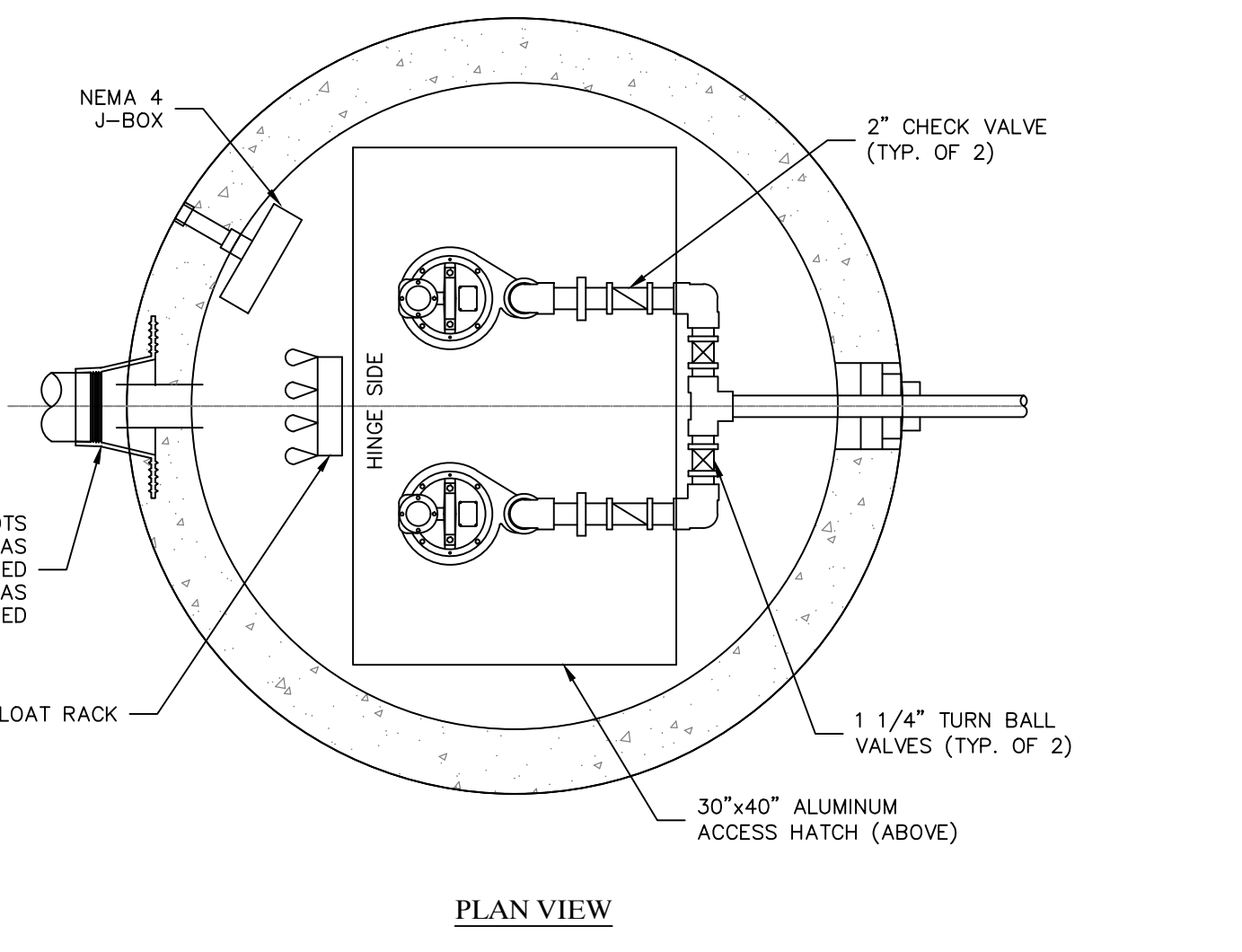
PUMP STATION SCHEDULE

DESCRIPTION	ELEVATION*	FLOAT NO.	NOTES
FINISH GRADE	T.B.D.	---	
4" PVC IN	T.B.D.	---	
2" FORCE MAIN OUT	T.B.D.	---	
HIGH WATER ALARM	T.B.D.	⊙	
LAG PUMP ON	T.B.D.	⊙	
LEAD PUMP ON	T.B.D.	⊙	
ALL PUMPS OFF	T.B.D.**		

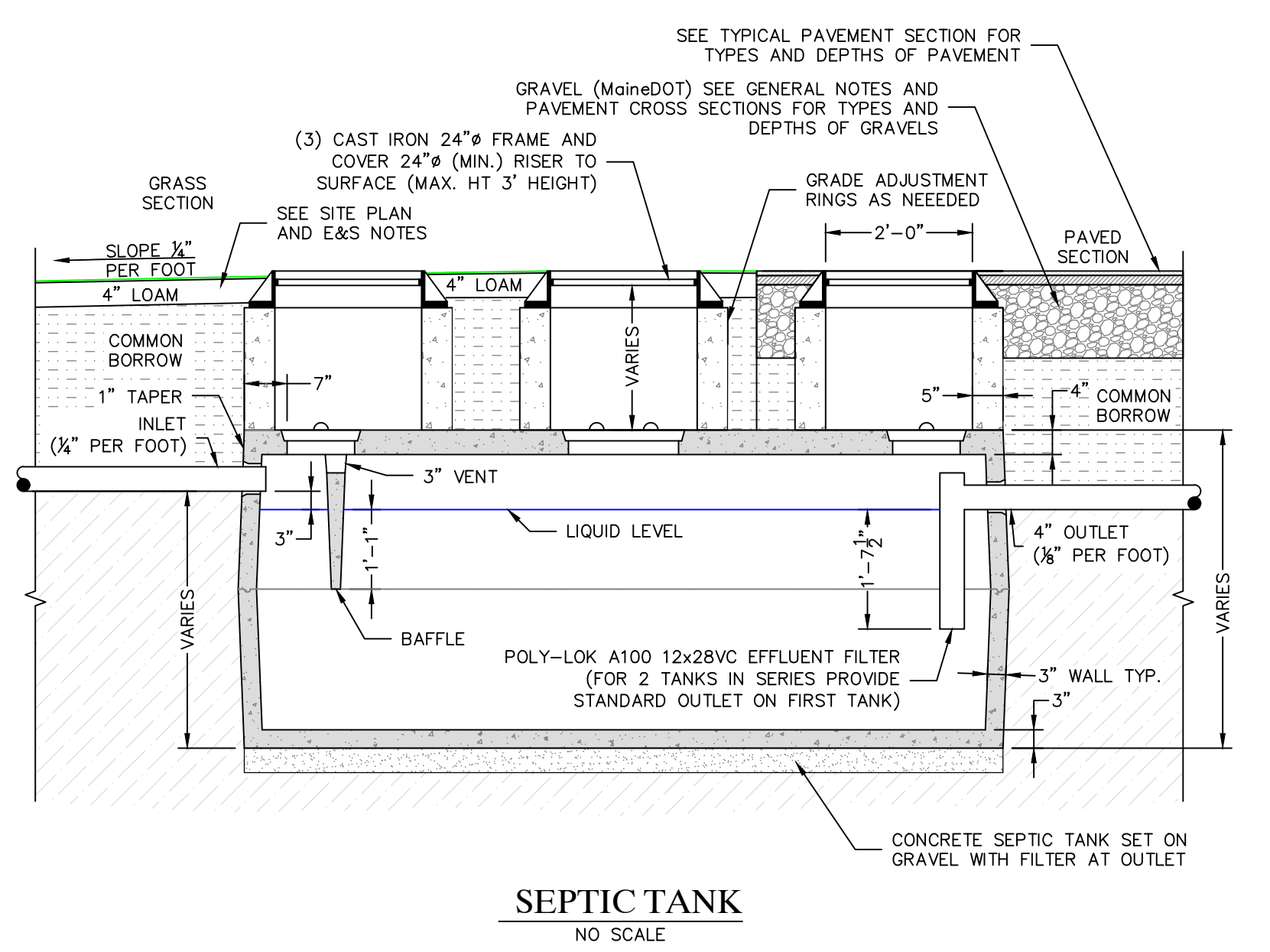
* VERIFY ELEVATIONS WITH FINAL SEPTIC SYSTEM DESIGN. ** VERIFY MINIMUM PUMP SUBMERGENCE OPERATION DEPTH WITH PUMP MANUFACTURER.

PUMP CONTROL SCHEME: LEAD/LAG/ALTERNATE
PROVIDE SECURE HANDS/OFF AUTO CONTROL FOR EACH MOTOR

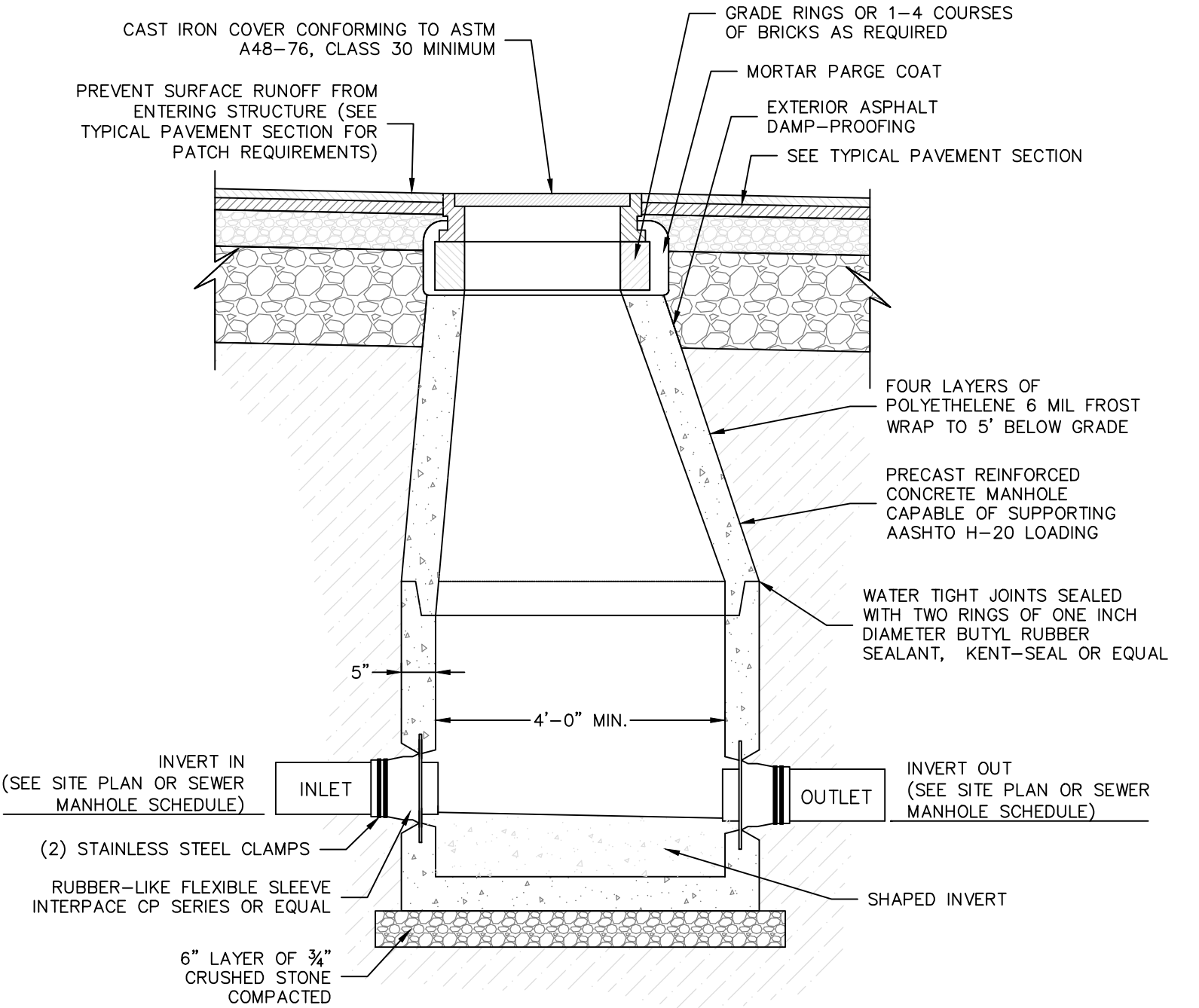
- NOTE:**
- PROVIDE REMOTELY MOUNTED NEMA IV CONTROL PANEL (COORDINATE LOCATION WITH OWNER).
 - FURNISH PUMP MOTOR BRANCH PROTECTION, MOTOR STARTER, AND MOTOR OVERLOAD PROTECTION.
 - THIS PUMP STATION LAYOUT IS SCHEMATIC. SHOP DRAWINGS AND PUMP INFORMATION, INCLUDING PUMP CURVE GRAPH, SHALL BE PROVIDED TO ENGINEER FOR REVIEW PRIOR TO ORDERING THE PUMP STATION.
 - THE PUMP STATION SHALL BE INSPECTED PRIOR TO BACKFILLING.
 - LEAK TEST OR VACUUM TEST SHALL BE CONDUCTED IN ACCORDANCE WITH TESTING STANDARDS FOR MANHOLES.
 - IF INSPECTION INDICATES WORK DOES NOT MEET REQUIREMENTS, STATION SHALL BE REMOVED AND REPAIRED.



DUPLEX PUMP STATION
NO SCALE

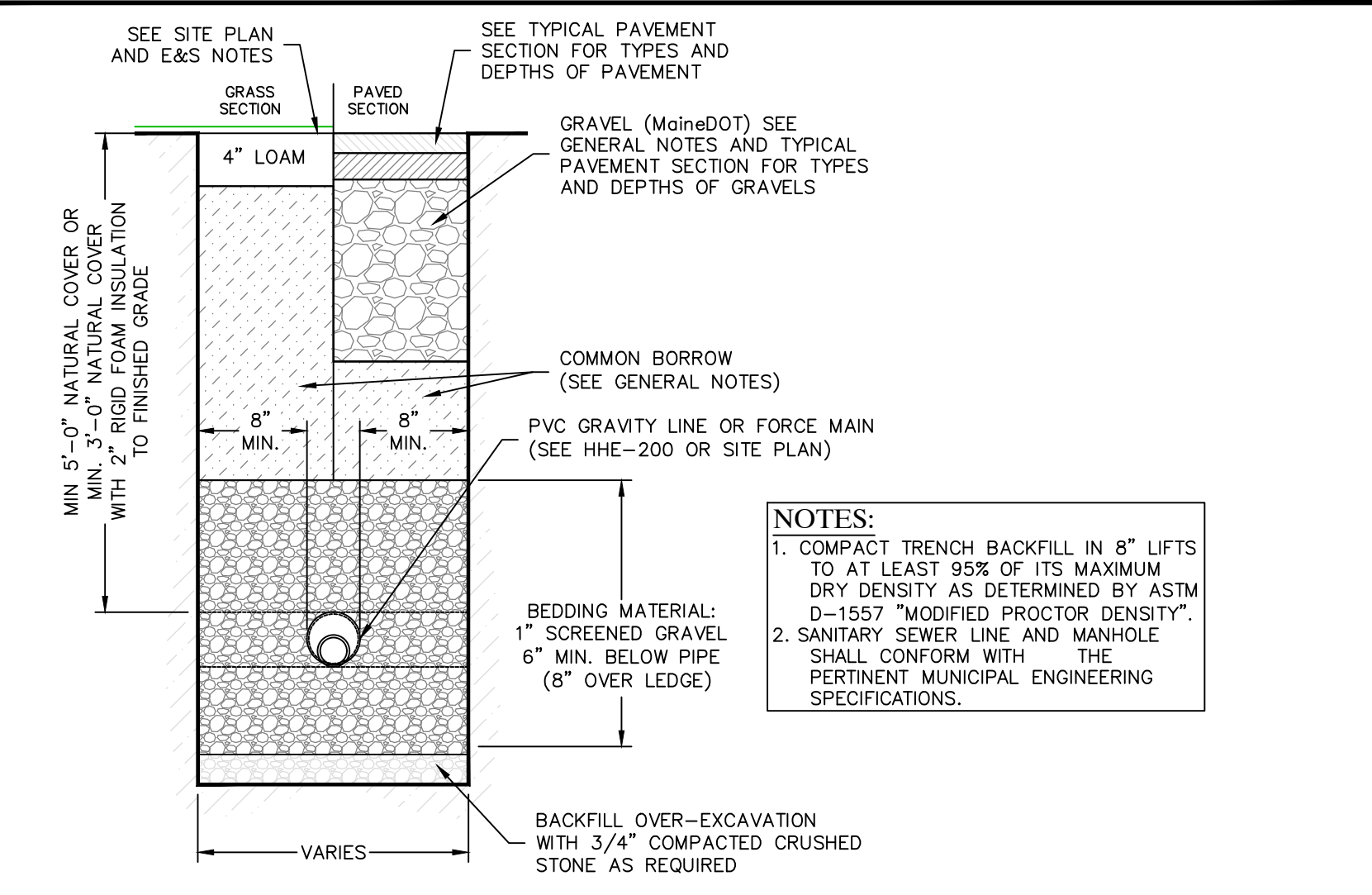


SEPTIC TANK
NO SCALE

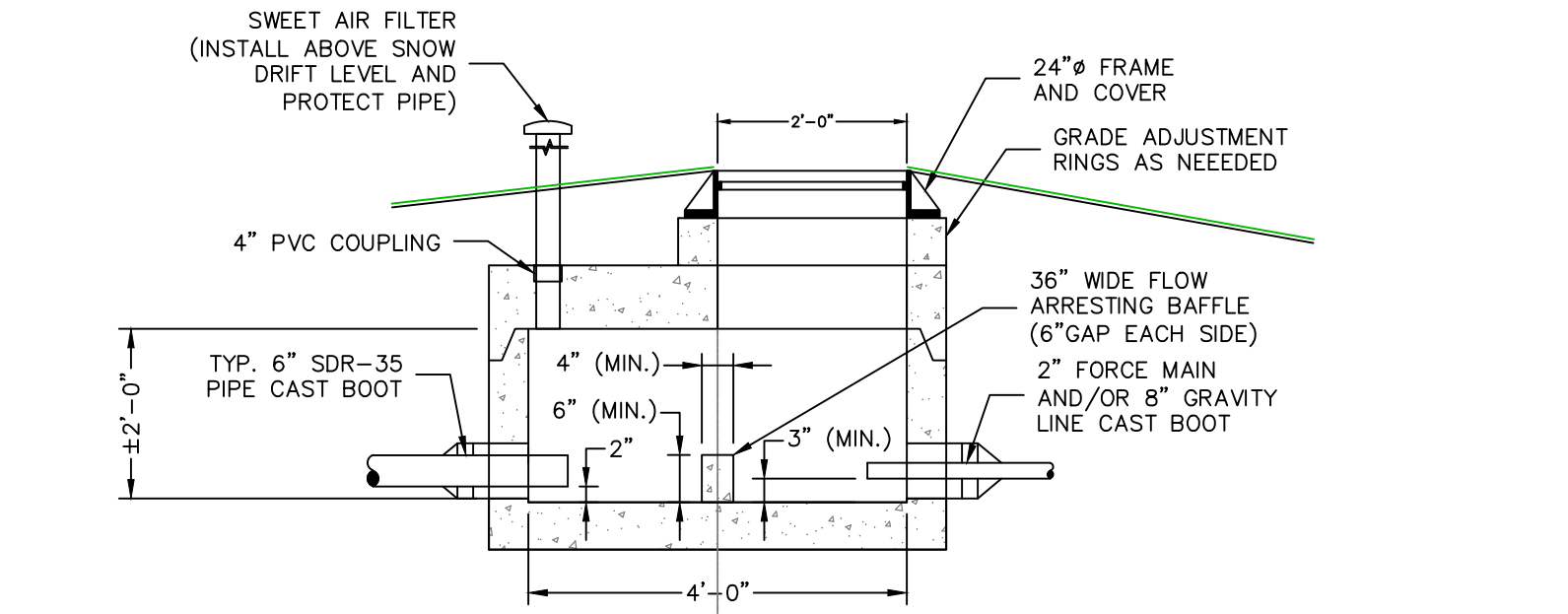


- NOTES:**
- SANITARY SEWER MANHOLE SHALL CONFORM WITH LOCAL SEWER ORDINANCE SPECIFICATIONS.
 - ALL PRECAST CONCRETE SHALL COMPLY WITH ASTM C913 "STANDARD SPECIFICATION FOR PRECAST CONCRETE WATER AND WASTEWATER STRUCTURES."
 - PRECAST MANHOLE COMPONENTS: ASTM C478

STANDARD PRECAST MANHOLE WITH SANITARY GRAVITY LINE
NO SCALE



SANITARY GRAVITY & FORCE MAIN TRENCH SECTION
NO SCALE



DISTRIBUTION STRUCTURE DETAIL
NO SCALE

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CIVIL DETAILS

KINGFISH MAINE

DUN GARVIN ROAD

JONESPORT COUNTY: WASHINGTON STATE: MAINE

DATE: MARCH 25, 2021

SCALE: AS NOTED

CHECKED BY: WTL

DRAWN BY: LP

NO.

REVISIONS

DATE

PROJ. NO. 2019-412

C20