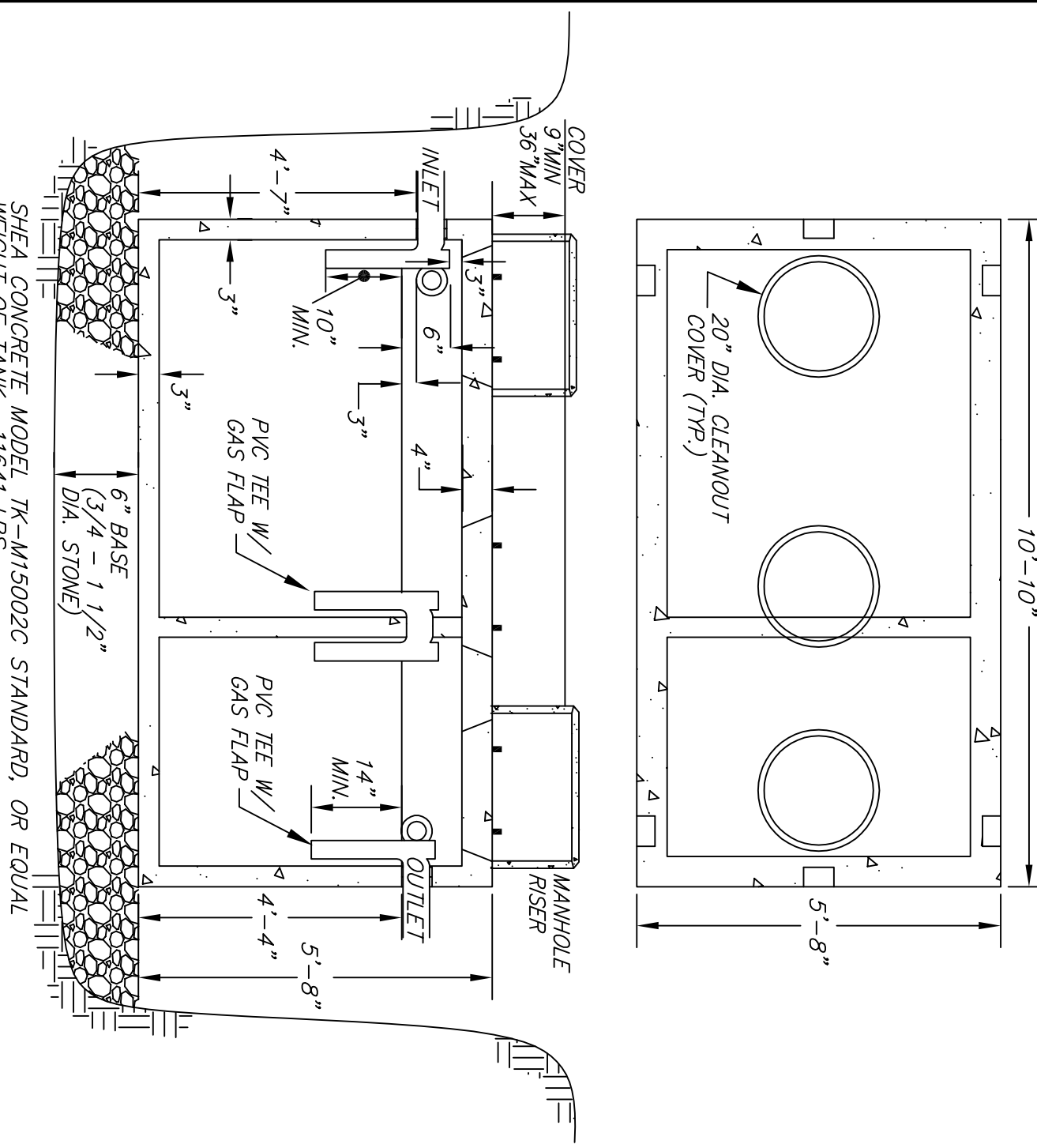
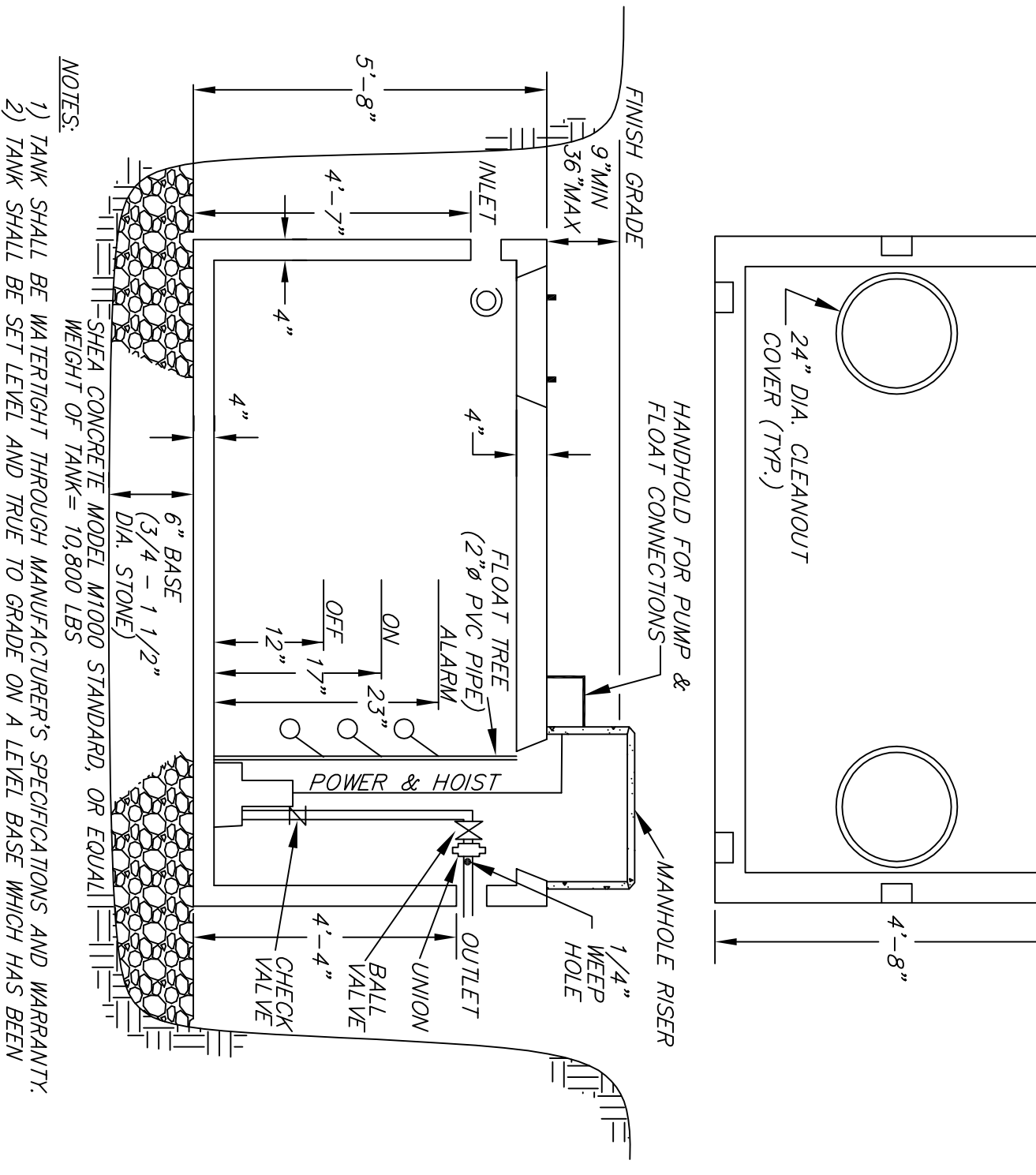


1) FIRST COMPARTMENT:
880 GALLONS
2) SECOND COMPARTMENT:
440 GALLONS
MONOLITHIC SEPTIC TANK



1500 GALLON MONOLITHIC SEPTIC TANK
310 CMR 15.223 - 15.228 (NOT TO SCALE)

9'-6"
4'-8"
24" DIA. CLEANOUT COVER (TYP.)



1000 GALLON MONOLITHIC PUMP CHAMBER
310 CMR 15.231 (NOT TO SCALE)

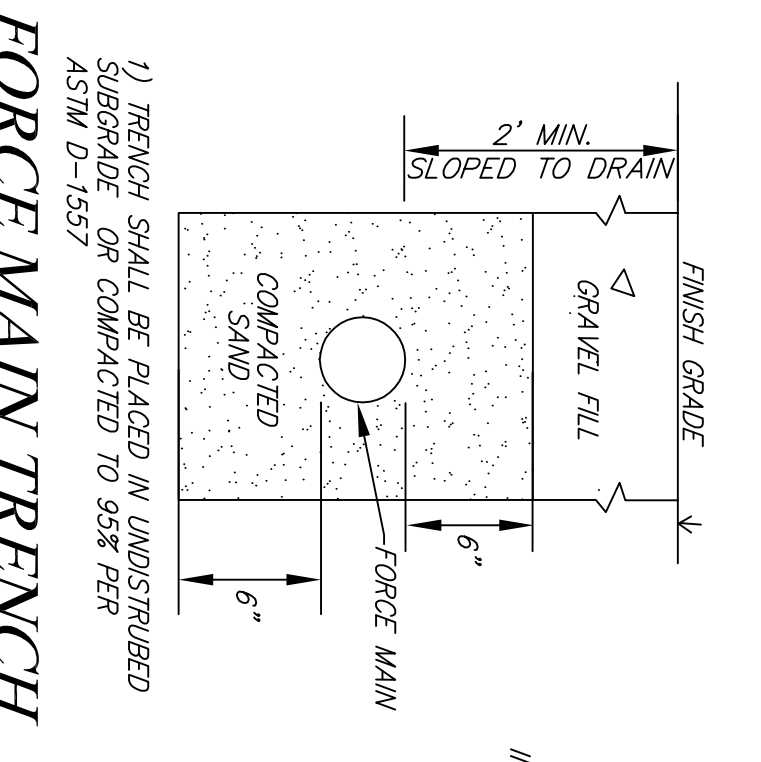
PUMP SPECIFICATIONS:
MANUFACTURER: LIBERTY PUMPS CONTROL PANEL: LIBERTY SX-240-3
MODEL #: LEHM
NO. REQUIRED: ONE (1)
HORSEPOWER: 0.4
FULL PHASE: 12
DISCHARGE: 2"

DAILY FLOW:	440	GALLONS/DAY
SOIL PER RATE	42	MININ
TOTAL VOLUME:	1100	GALLONS
DOSE	144	GALLONS/DAY
DOSE/DAY	2	DK.

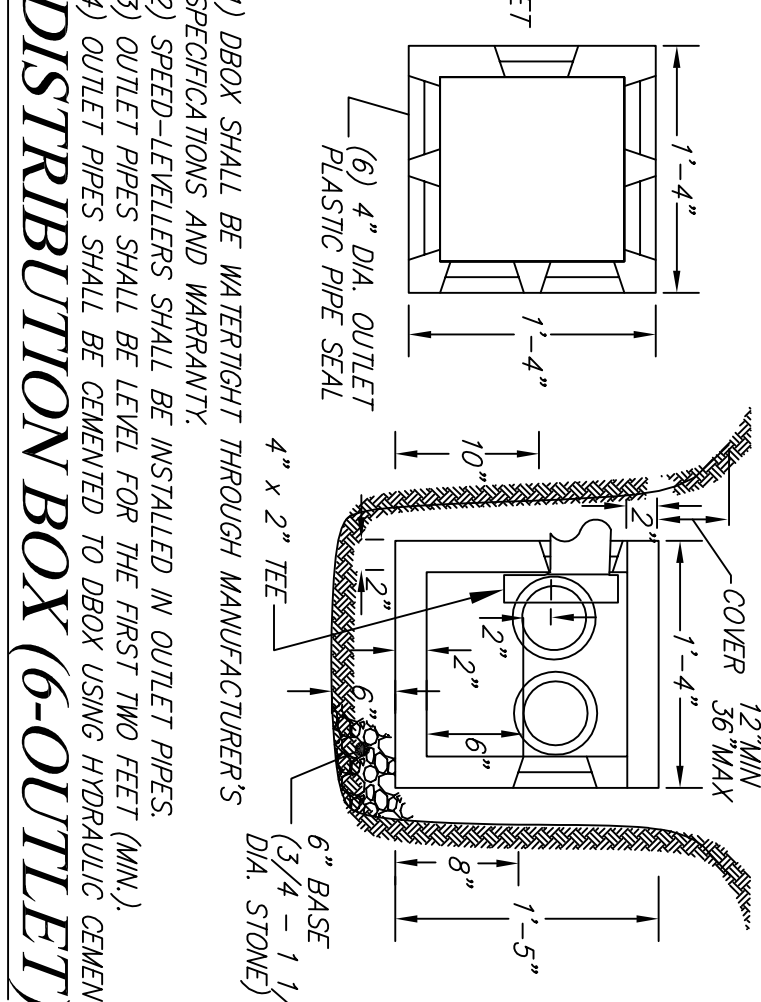
PIPE RUN	LENGTH	USE
2 90 DEGREE BENDS	10	USE: 21
2 45 DEGREE BENDS	5	
0 CHECK VALVE	0	
LENGTH OF PIPE	27	
ADDITIONAL LENGTH	3	
TOTAL	45	

OPERATING POINT:	HEAD	FLOW RATE	TIME ON
	12.5 FT	85 GPM	1.3 MINUTES

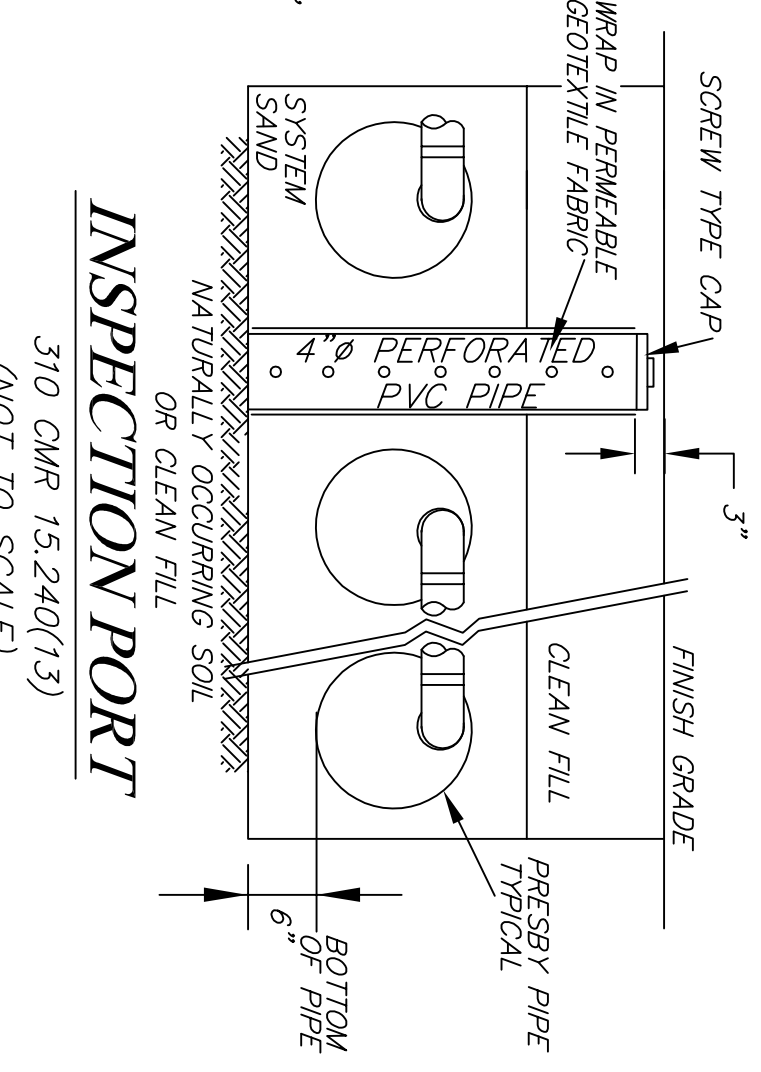
SYSTEM CURVE:	Q	V	HI100 FT	HI	HI	TDH
	65	5.86	6.24	4.25	5.50	9.75
	70	6.31	7.39	4.88	5.50	10.38
	75	6.78	8.39	5.54	5.50	11.04
	80	7.21	9.46	6.24	5.50	11.74
	85	7.66	10.58	6.98	5.50	12.48
	90	8.12	11.76	7.76	5.50	13.26
	95	8.57	13.00	8.58	5.50	14.08



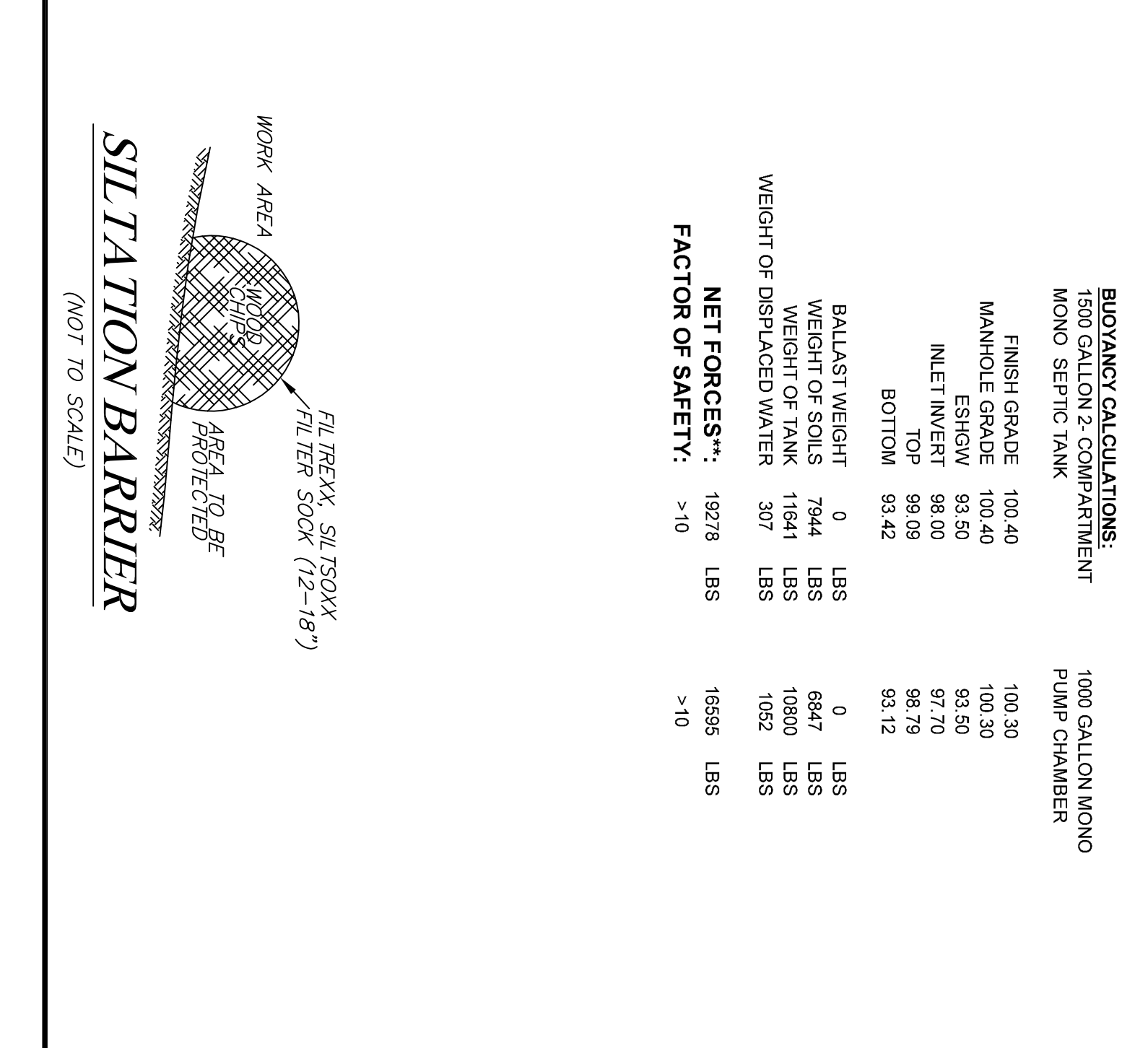
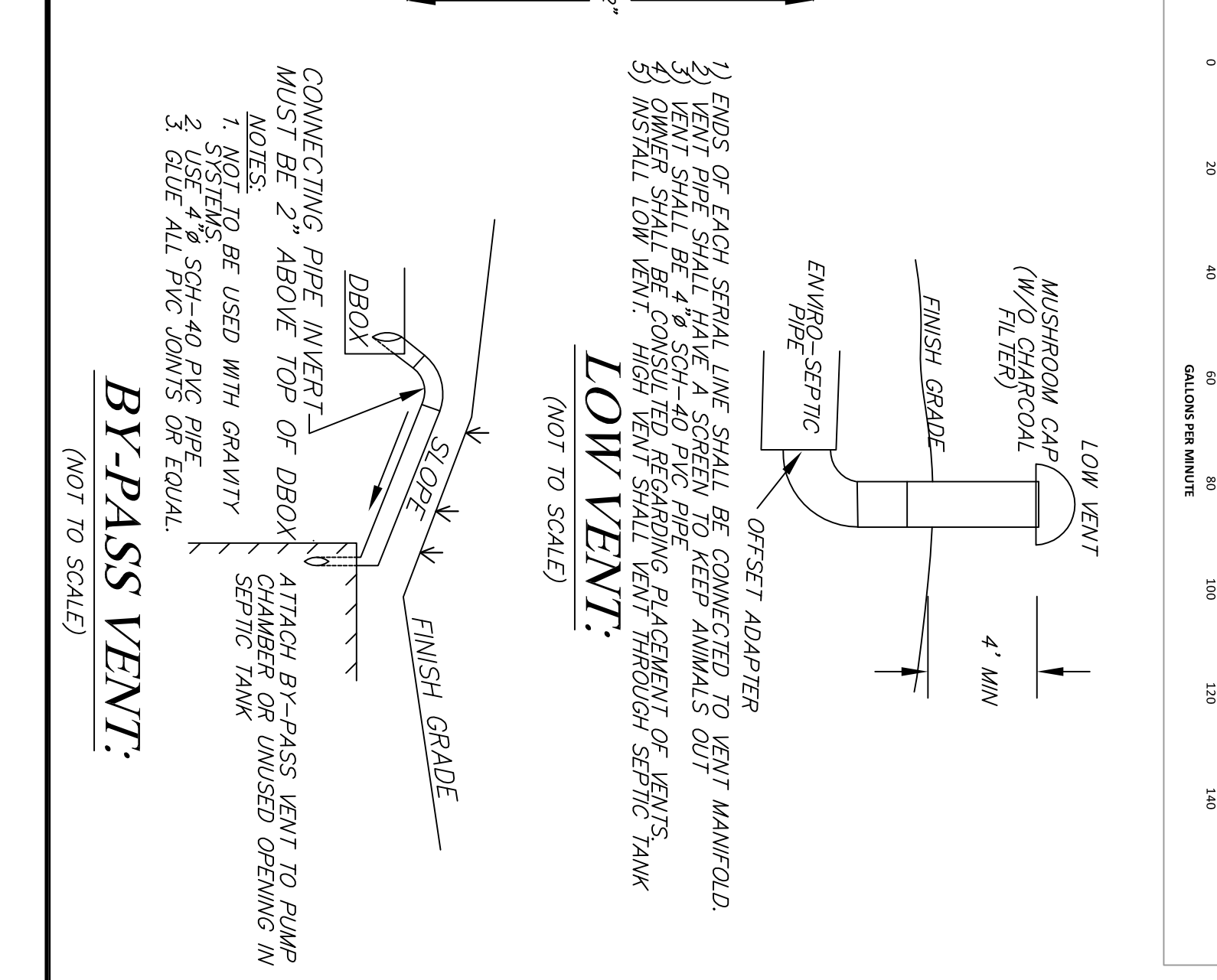
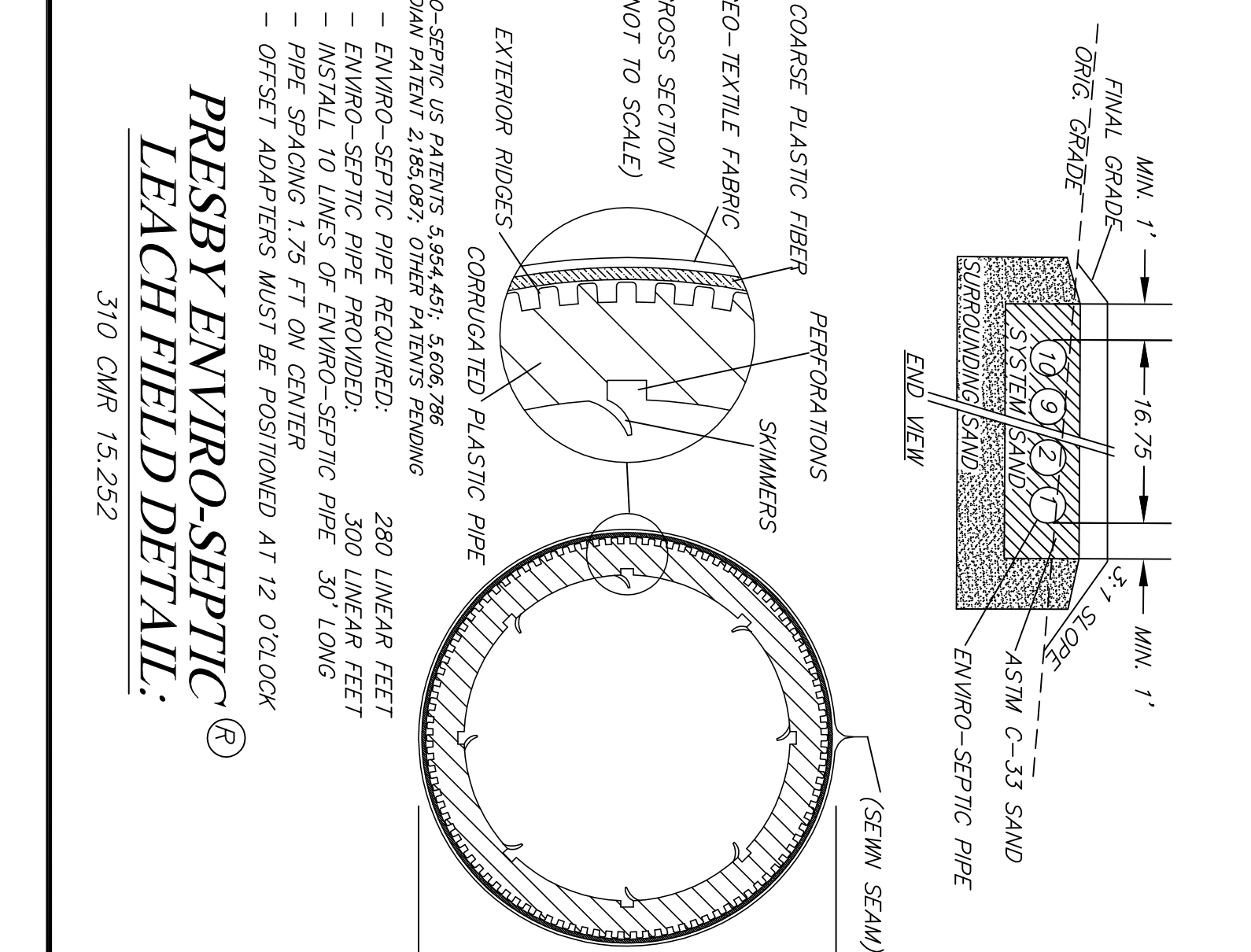
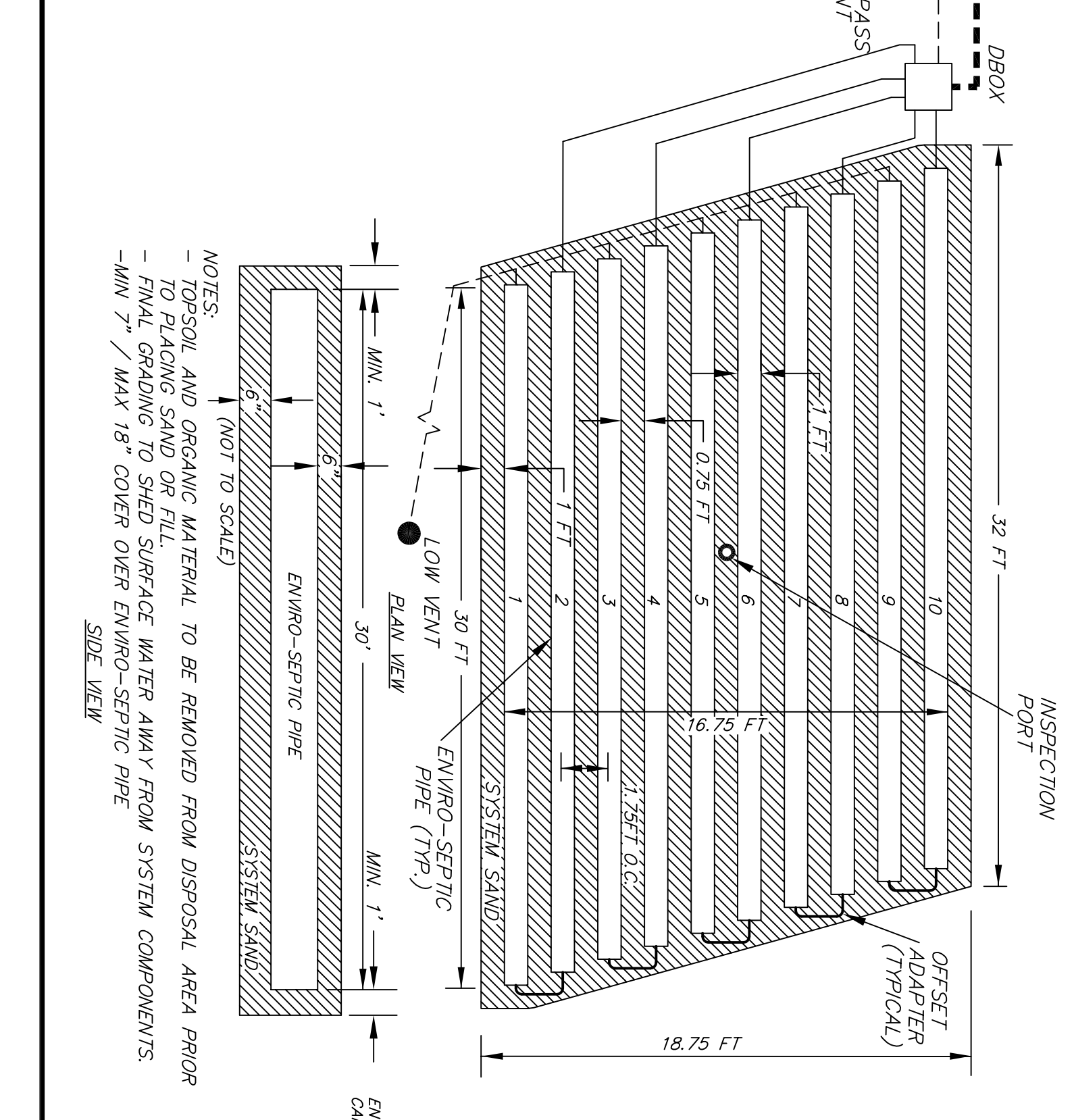
FORCE MAIN TRENCH
310 CMR 15.221(6) (NOT TO SCALE)



DISTRIBUTION BOX (6-OUTLET)
310 CMR 15.232 (NOT TO SCALE)



INSPECTION PORT
310 CMR 15.240(13) (NOT TO SCALE)



LIBERTY PUMP - LEAD SERIES

OPERATING POINT:
HEAD: 12.5 FT
FLOW RATE: 85 GPM
TIME ON: 1.3 MINUTES

SYSTEM CURVE:

Q	V	HI100 FT	HI	HI	TDH
65	5.86	6.24	4.25	5.50	9.75
70	6.31	7.39	4.88	5.50	10.38
75	6.78	8.39	5.54	5.50	11.04
80	7.21	9.46	6.24	5.50	11.74
85	7.66	10.58	6.98	5.50	12.48
90	8.12	11.76	7.76	5.50	13.26
95	8.57	13.00	8.58	5.50	14.08

NET FORCES:**

MANHOLE GRADE	100.40	100.30
ESGROW	93.50	93.50
INLET INVERT	86.00	87.70
TOP	89.42	91.70
BOTTOM	83.42	83.72

FACTOR OF SAFETY:** >10

SUBSURFACE SEWAGE DISPOSAL SYSTEM UPGRADE

316 IPSWICH ROAD
BOXFORD, MA 01921

DEED:
BOOK NO.: 37784
PAGE NO.: 287

ASSESSORS INFORMATION:
MAP: 19
BLOCK: 1
LOT: 6

PREPARED FOR:
BRIAN & LINDA SHEA
316 IPSWICH ROAD
BOXFORD, MA 01921

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WEB: www.scanlanengineering.com

#	BY	DATE	REVISIONS TO PLANS	CONSERVATION COMMENTS
1	JBS	10/11/2021		

DATE: AUGUST 11, 2021
DESIGN BY: JBS
DRAWN BY: JBS

DETAILS & NOTES

SHEET 2 OF 2
SCALE: 1" = 20'
PROJECT # 1080