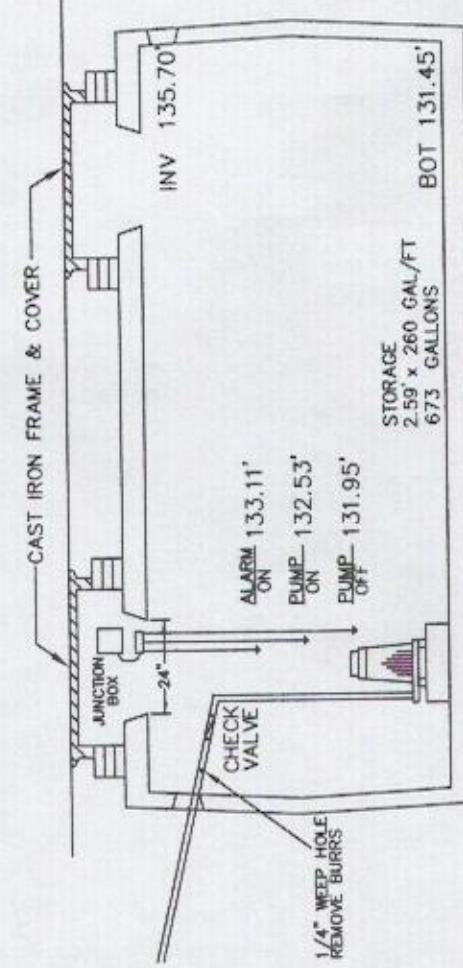


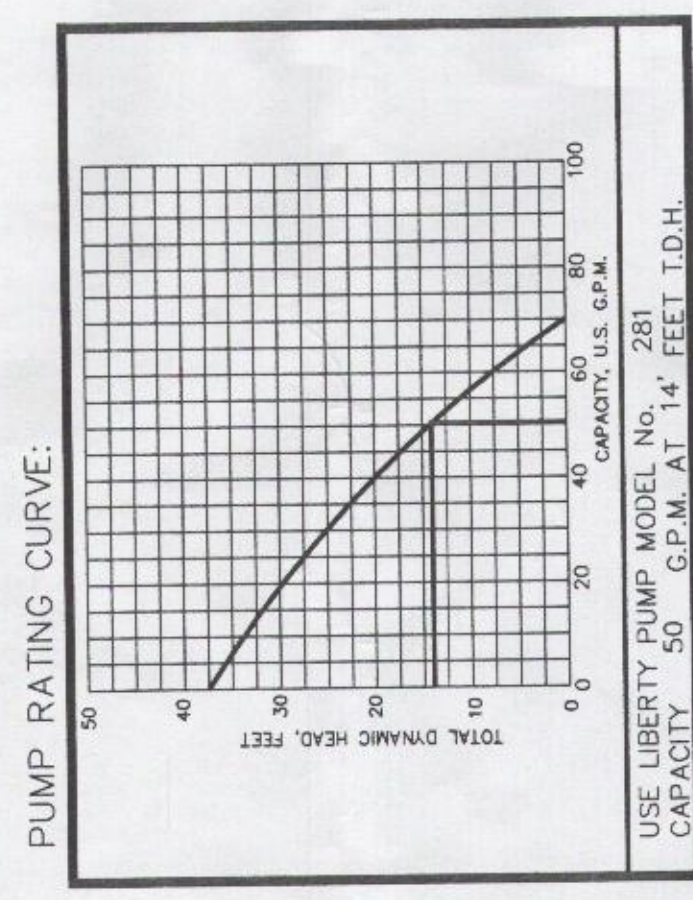
PUMP CRITERIA:

No. OF DOSES/DAY 495 GPD/4 = 124 GAL + BACKFLOW
 BACKFLOW: 38' x (3.14159 x (1/12) x 2) x 7.48 = 7 GAL
 TOTAL DOSE = 124 + 7 = 131 GAL
 VOLUME OF DOSE = 131 GAL / 7.48 GAL/CU FT = 18 FT³
 DEPTH OF DOSE = 18 FT³ / 2.9 FT³/INCH DEPTH IN 7" PER CYCLE.
 1000 GAL PUMP CHAMBER = 6.20 INCHES USE 7" PER CYCLE.
 HEAD CALCULATIONS:
 STATIC HEAD = RISE PUMP OFF TO D-BOX INV IN
 DYNAMIC HEAD = (FRIC. LOSS)
 FRICTION LOSS = 1.90' @ 31' CHECK VALVE 1.7'
 GATE VALVE = 2.6' 2'-45" = 6' TOTAL = 13.4'
 TOTAL D.H. = (38' + 13.4' x 5.4)/100 @ 50 GPM = 3'
 TOTAL HEAD = 11' + 3' = 14' FT

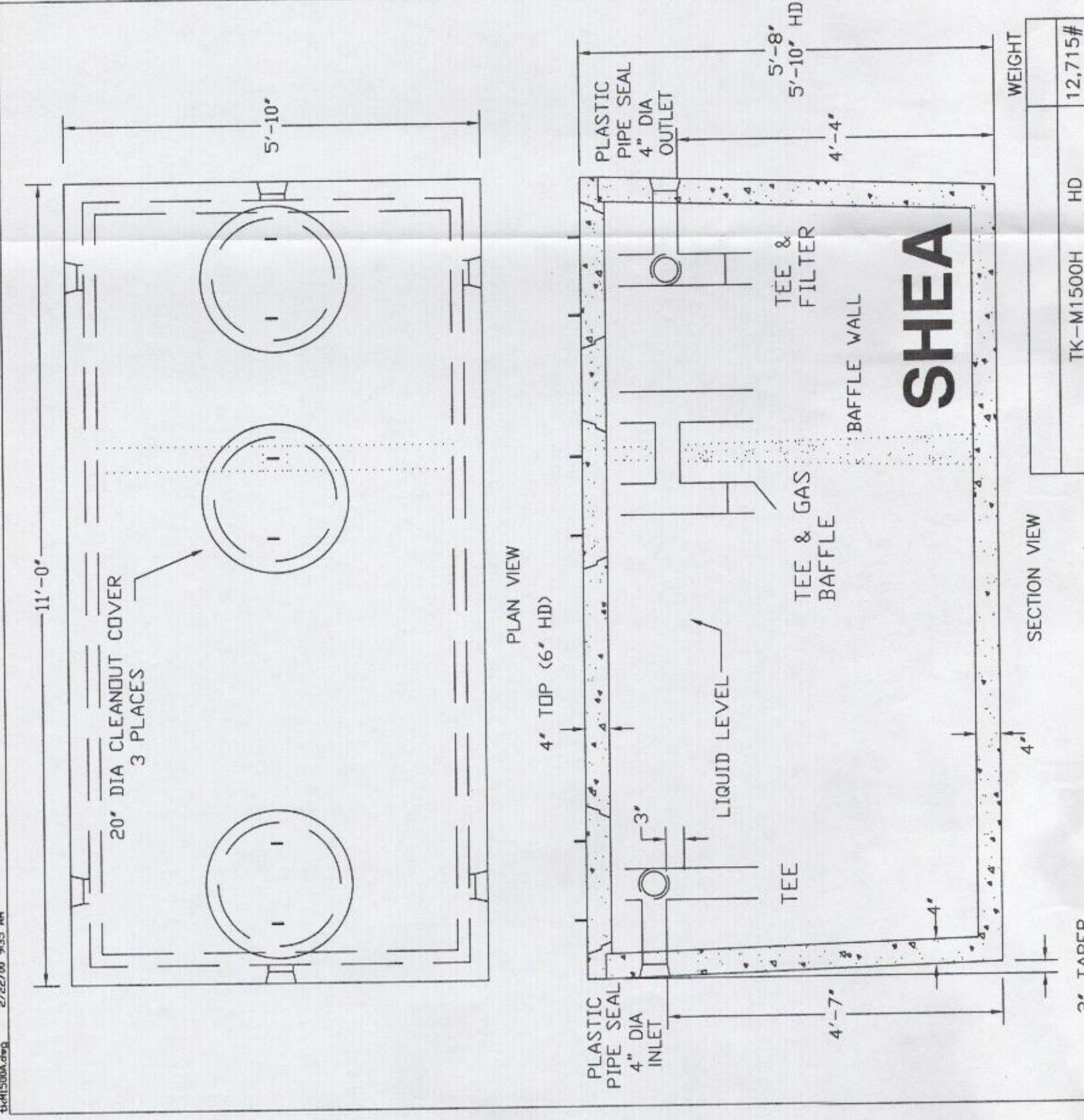


1000 GALLON PUMP CHAMBER (MONOLITHIC - H-20 LOAD)

USE STANDARD SEPTIC TANKS OF PUMP CHAMBERS
 PUMP, PLUMBING & ELECTRICAL BY OTHERS
PUMP CONTROLS:
 PUMP CONTROLS SHALL BE MOISTURE PROOF AND OPERATE IN THE SEQUENCE SHOWN. THE CONTROLS SHALL HAVE AN AUDIO/VISUAL ALARMS, ALARM SILENCING SWITCH, MAIN POWER HAND SHUTOFF. ALARM SYSTEM SHALL BE POWERED BY A CIRCUIT SEPARATE FROM PUMP POWER.
 CONTROL BOX AND ELECTRICAL WIRING SHALL BE INSTALLED IN ACCORDANCE WITH MANUFACTURER'S SPECIFICATIONS AND IN FULL COMPLIANCE WITH ALL STATE AND LOCAL REGULATIONS.
 UPON COMPLETION, THE INSTALLATION SHALL BE TESTED TO INSURE PROPER OPERATION.



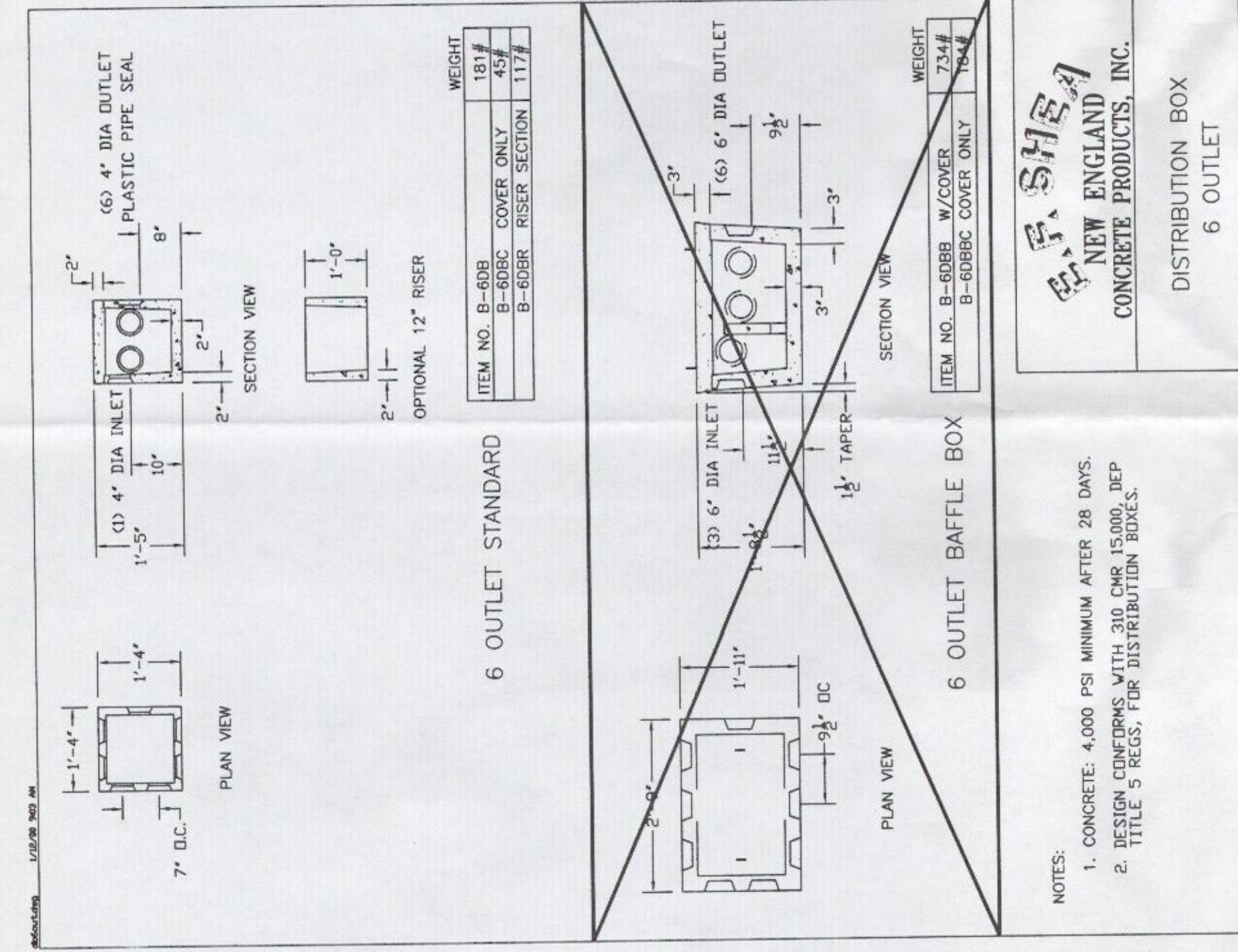
USE LIBERTY PUMP MODEL No. 281
 CAPACITY: 50 G.P.M. AT 14' FEET T.D.H.



ITEM NO.	DESCRIPTION	WEIGHT
TK-M1500H	HD	12,715#
TK-M15002CH	HD	13,320#

NOTES:
 1. CONCRETE: 4,000 PSI MINIMUM AFTER 28 DAYS.
 2. DESIGN CONFORMS WITH 310 CMR 15.00, DEP TITLE 5 RECS. FOR SEPTIC TANKS.
 3. ALL REINFORCEMENT PER ASTM C1227-93.
 4. BAFFLE WALL OPTIONAL FOR TWO COMPARTMENT TANKS.
 5. TEES AND GAS BAFFLE SOLD SEPARATELY.
 6. TONGUE & GROOVE JOINT SEALED WITH BUTYLE RESIN.
 7. ALSO AVAILABLE IN H-20 LOADING.

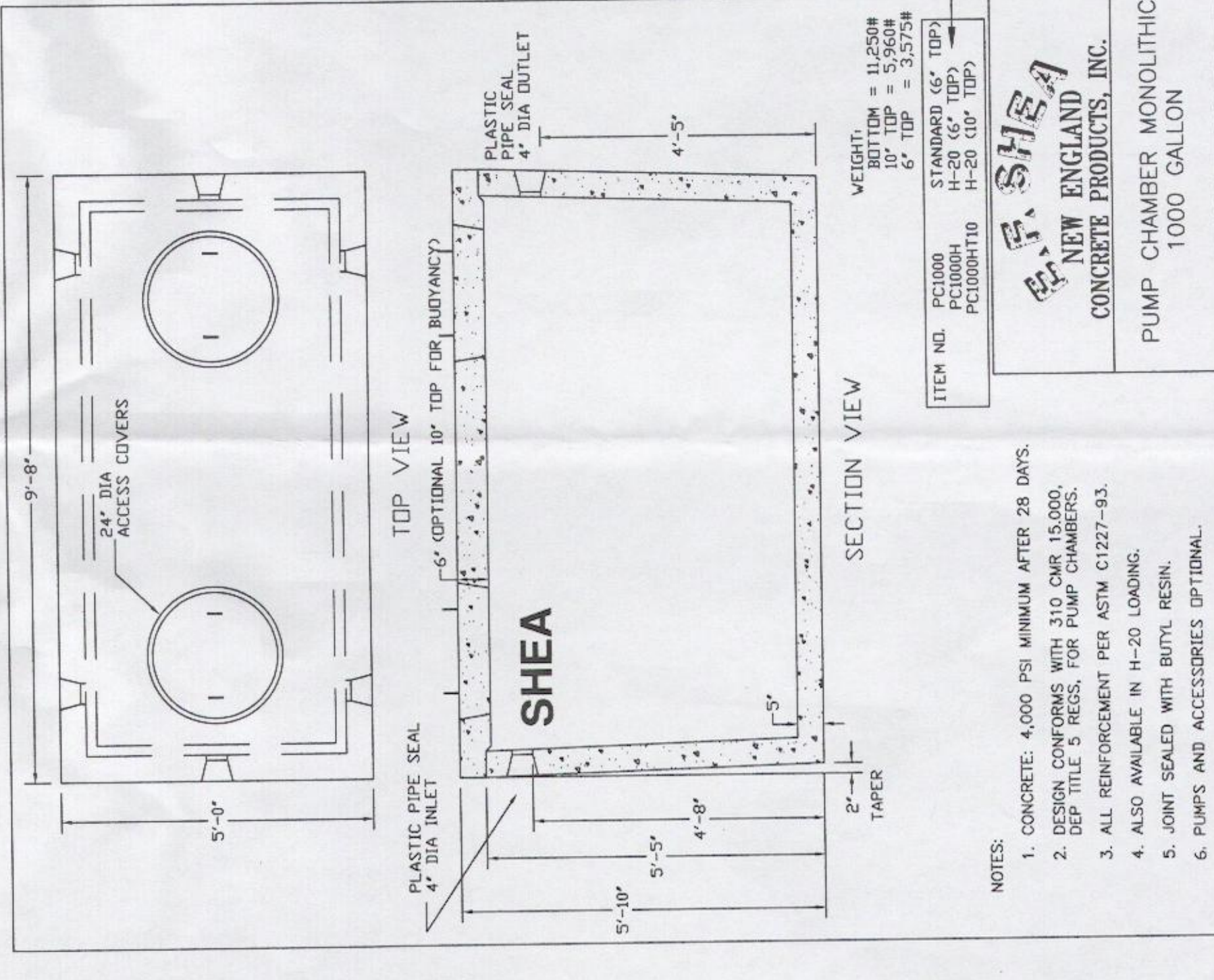
WILMINGTON, MA (978) 658-2645 --- AMESBURY, MA (978) 388-1509
 NOTTINGHAM, NH (603) 942-5668



ITEM NO.	DESCRIPTION	WEIGHT
B-608B	W/COVER	734#
B-608C	COVER ONLY	78#

NOTES:
 1. CONCRETE: 4,000 PSI MINIMUM AFTER 28 DAYS.
 2. DESIGN CONFORMS WITH 310 CMR 15.00, DEP TITLE 5 RECS. FOR DISTRIBUTION BOXES.

WILMINGTON, MA (978) 658-2645 --- AMESBURY, MA (978) 388-1509
 NOTTINGHAM, NH (603) 942-5668



ITEM NO.	DESCRIPTION	WEIGHT
PC1000	STANDARD (6' TDP)	11,250#
PC1000H	H-20 (6' TDP)	5,900#
PC1000HD	H-20 (10' TDP)	3,575#

NOTES:
 1. CONCRETE: 4,000 PSI MINIMUM AFTER 28 DAYS.
 2. DESIGN CONFORMS WITH 310 CMR 15.00, DEP TITLE 5 RECS. FOR PUMP CHAMBERS.
 3. ALL REINFORCEMENT PER ASTM C1227-93.
 4. ALSO AVAILABLE IN H-20 LOADING.
 5. JOINT SEALED WITH BUTYL RESIN.
 6. PUMPS AND ACCESSORIES OPTIONAL.

WILMINGTON, MA (978) 658-2645 --- AMESBURY, MA (978) 388-1509
 NOTTINGHAM, NH (603) 942-5668

Professional Engineer seals for Robert M. Gleason and Stephen J. Sheehan, State of Massachusetts.

OWNER: JAMES & EILEEN LYDON
 TAX MAP 09 BLK 02 LOT 25
 LOCUS DEED: BK 24037 PG 393
 LOCATION: 610 MAIN STREET
 BOXFORD, MA 01921

Engineering Land Services, LLC
 P.O. BOX 41
 WEST NEWBURY, MA 01985
 TEL: 978-815-6744 & FAX: 978-462-6800
 EMAIL: MASSFLSRC@OL.COM
SANITARY DISPOSAL SYSTEM UPGRADE PLAN (REPAIR)