

REVISIONS:

02/15/83
 ADD NOTE ON FRONT
 ABOUT TRENCH W/ LEDE DETAIL
 REVISED PUMP STATION NOTE
 SHEET 8 OF 23
 04/14/83
 REVISED BASIS OF DESIGN
 REVISED FORCE MAIN PIPING
 REVISED MOUND CONSTRUCTION NOTES

VERMONT
 AGENCY OF
 TRANS.

CLARENDON, VT

Emman
 Environmental & Civil & Sanitary
 Route 718 P.O. Box 127
 North Clarendon, Vermont 05759
 (802)773-3457

THE SIGNATURE BELOW INDICATES MY APPROVAL FOR SUBMITTAL TO THE REVIEW AGENCIES FOR THEIR REVIEW AND FINAL APPROVALS ONLY. CONSTRUCTION UNDER THIS PERMIT SHALL BE GRANTED, AND MY PROFESSIONAL ENGINEERING STAMP IS AFFIXED ON THIS DOCUMENT.

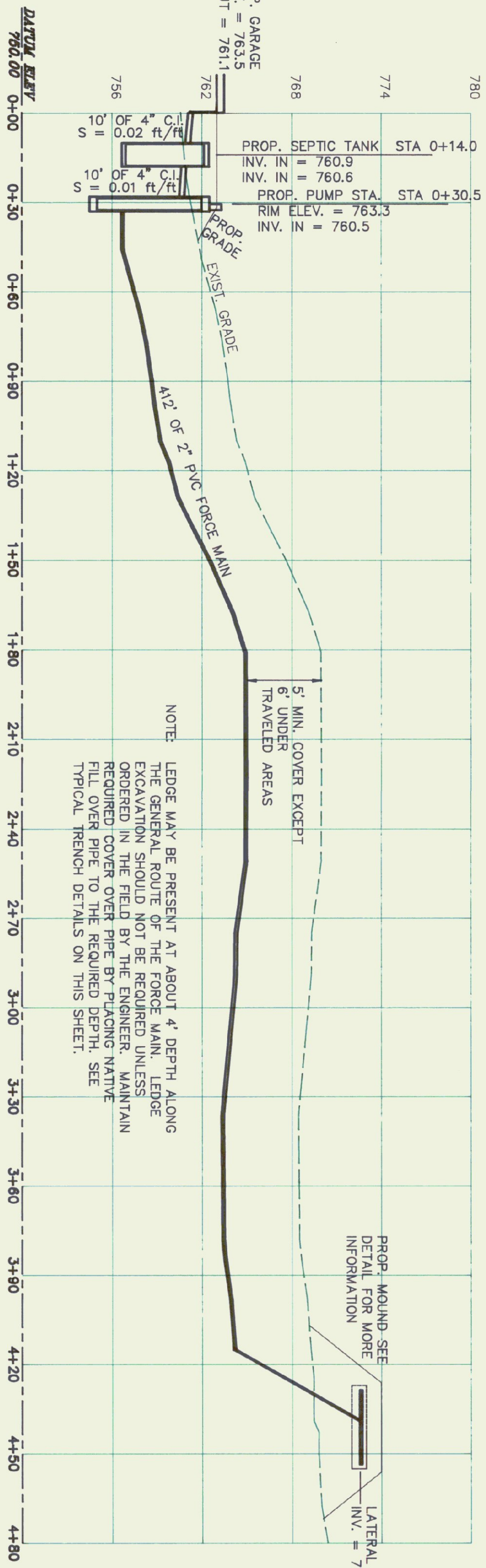
REGULATORY APPROVAL STAMP

MISC.
 DETAILS

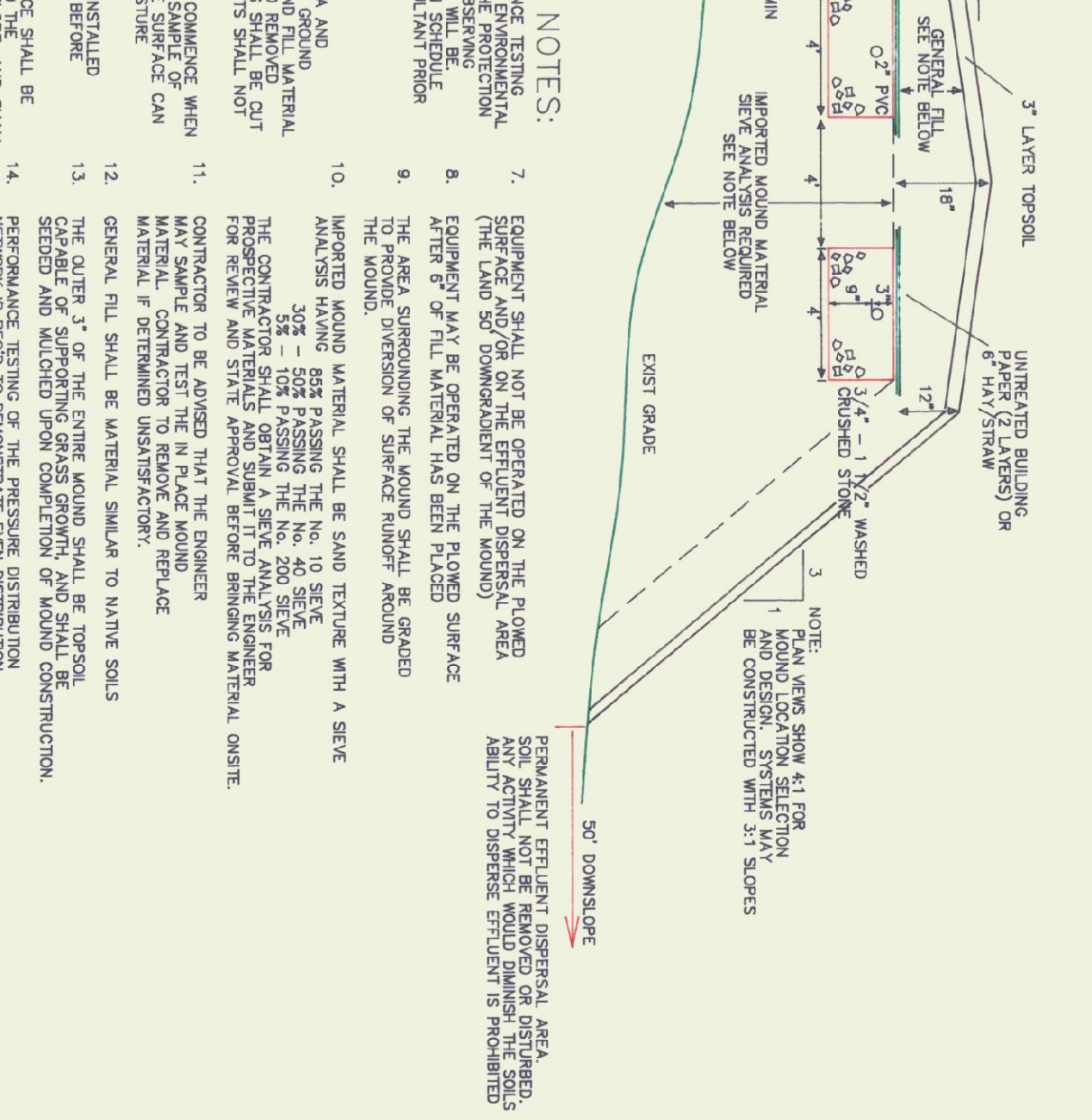
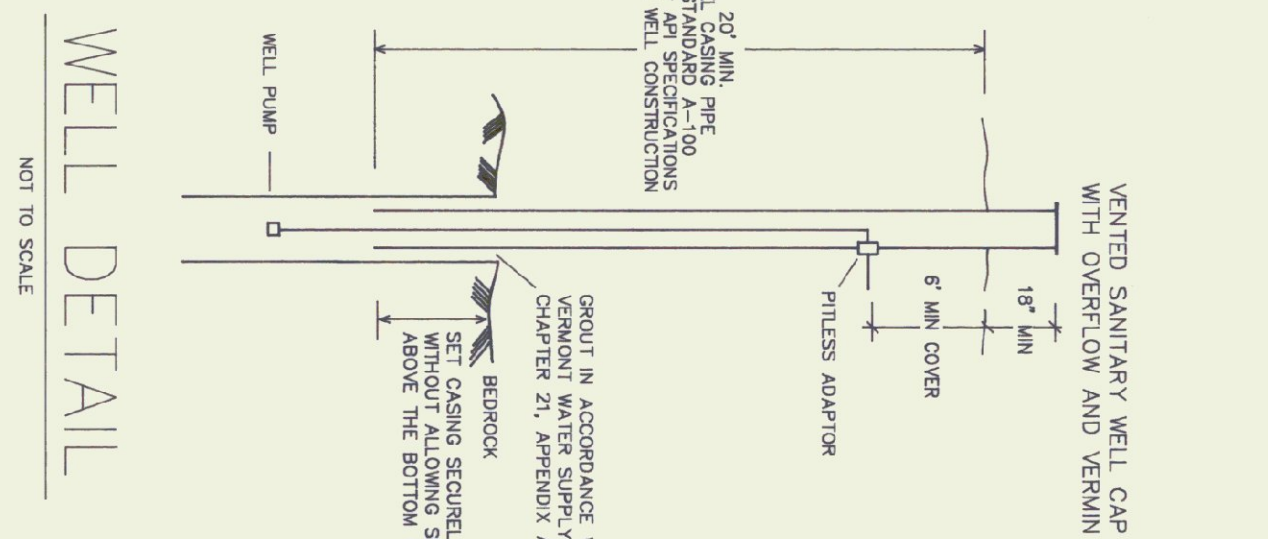
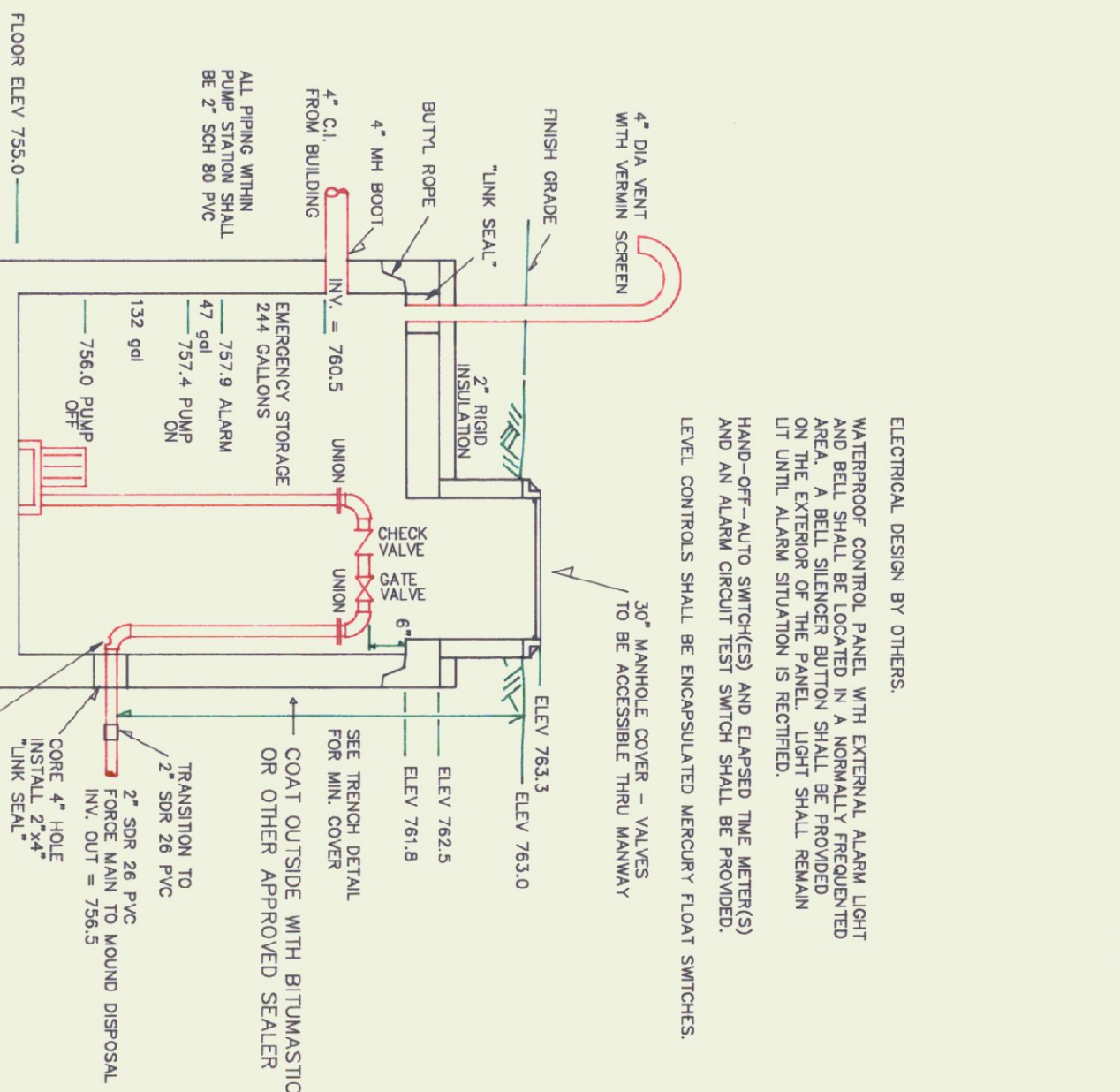
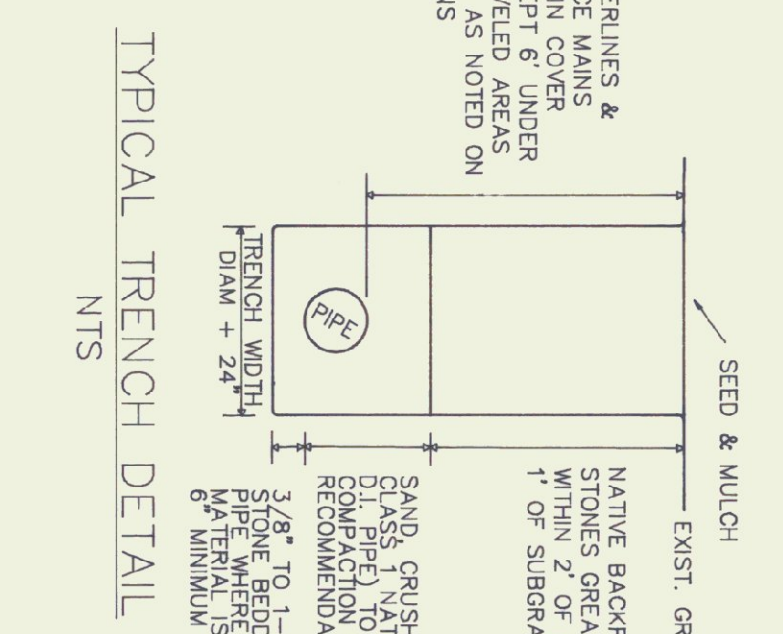
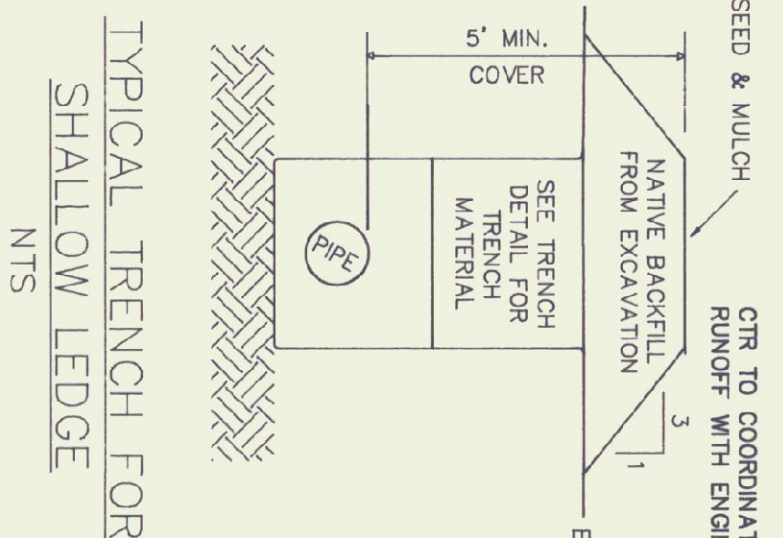
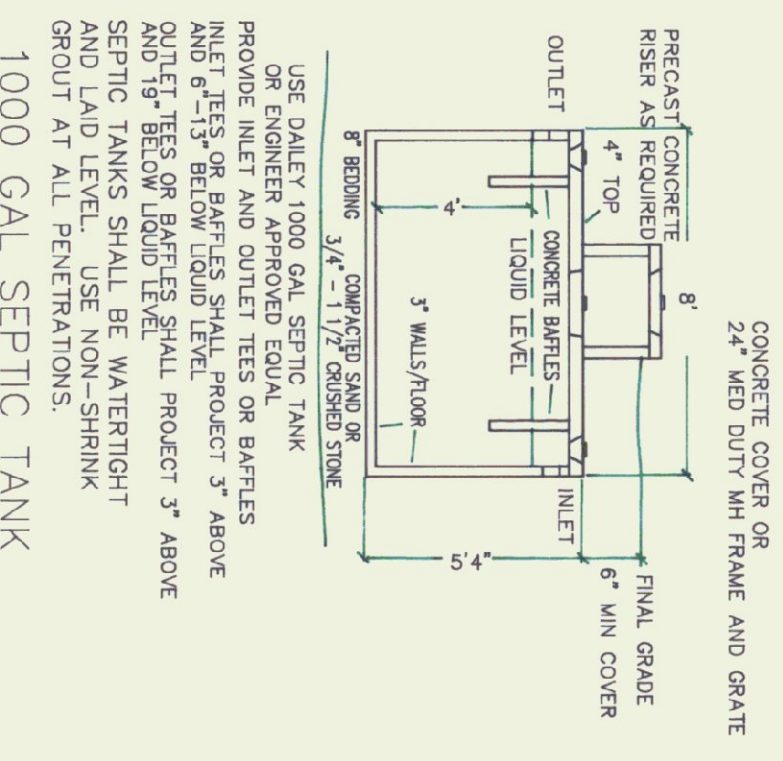
SCALE: AS NOTED
 DATE: 03/01/93
 DESIGN BY: BJE
 DRAWN BY: JBT
 SHEET NO: P-3
 PROJECT NO: 9228

BASIS OF DESIGN

AVERAGE DAILY FLOW	10 employees @ 150 gal each = 1500
FIELD SIZING	(150 gpd) / (1.2 gpd/sf) = 125 sf REQUIRED USE 2 @ 4'x24' = 192 sf AVAILABLE
BASEL AREA	(150 gpd) / (0.75 gpd/sf) = 200 sf REQUIRED 24' x 40' = 960 sf AVAILABLE
HYDRAULICS	ELEVATION HEAD 772.8 - 758.0 = 14.8 ft FRICTION HEAD 2" PVC FORCE MAIN 440' @ C=100 USE GOLIUS 3895-WEGOH 1/2 HP PUMP OPERATING POINT = 29.7 gpm @ 38.5 TDH
FIELD HYDRAULICS AT OPERATING POINT	ORANGE FLOW(gpm) HEAD(ft) A1 3.713 50.00 A2 3.713 50.00 MAX FLOW 3.713 gpm MIN FLOW 3.712 gpm % DIFFERENCE 0.05%
PUMP STATION LEVELS	ON/OFF 1.4' = 132 gallons DUMP PUMP TIME 132 gal / 29.7 gpm = 4.4 min STORAGE VOLUME 216 = 2.14 gallons
DOSING	(120 gal/dose) @ (63 gal draw back) = 89 gal/dose (150 gpd) / (69 gal/dose) = 2.2 doses/day



PROPOSED SEWER
 SCALE: HORIZ. 1" = 30'
 VERT. 1" = 8'



- MOUND CONSTRUCTION NOTES:**
- CONSTRUCTION RESERVATION AND PERFORMANCE TESTING RULES REQUIRE THE CONTRACTOR TO NOTIFY THE PROTECTION AGENCY OF ANY CHANGES TO THE MOUND CONSTRUCTION AND TESTING OF THE SYSTEM WILL BE AT THE CONTRACTOR'S RISK AND COST.
 - CONTRACTOR TO CONTACT ENGINEER 72 HRS PRIOR TO ANY CONSTRUCTION ACTIVITY.
 - ALL TRENCHES SHALL BE 12" DEEP AND 12" WIDE. VEGETATION COVERING THE AREA WHERE MOUND TRENCHES ARE TO BE LOCATED SHALL BE CUT OUT AND REMOVED FROM THE MOUND SURFACE. TREE STUMPS SHALL NOT BE LEFT IN PLACE.
 - CONSTRUCTION AND/OR PLOWING SHALL NOT COME WITHIN 10' OF THE DISPOSED WASTE. THE SOIL UNDERSTRENGTH SHALL BE TESTED WHEN THE MOUND IS TO BE CONSTRUCTED. THE SOIL SHOULD BE EASILY ROLLED OUT A WHEEL. THE SOIL UNDERSTRENGTH IS TOO HIGH.
 - PERMITS OF THE FOREMAN THAT WILL BE INSTALLED PRIOR TO PLOWING THE GROUND SURFACE SHALL BE OBTAINED.
 - CONTRACTOR SHALL BE RESPONSIBLE FOR OBTAINING ALL NECESSARY PERMITS AND APPROVALS.
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