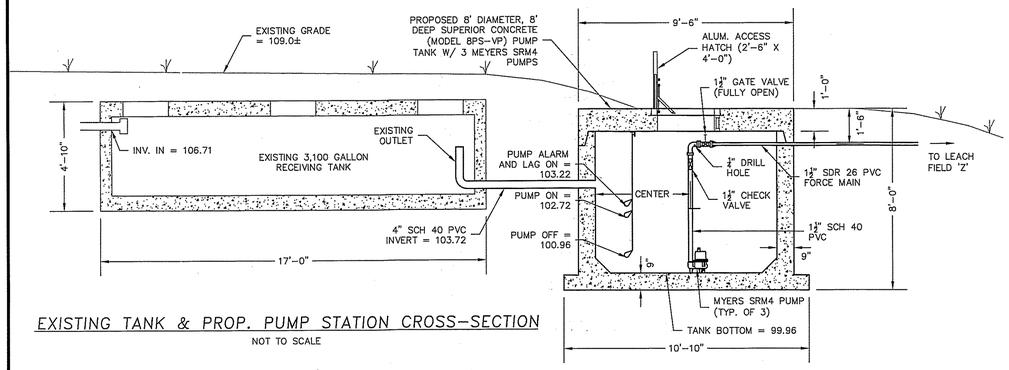
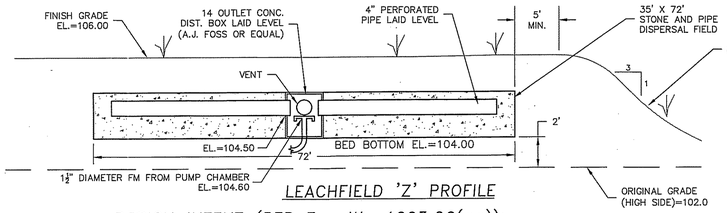


EXISTING TANK & PROP. PUMP STATION CROSS-SECTION

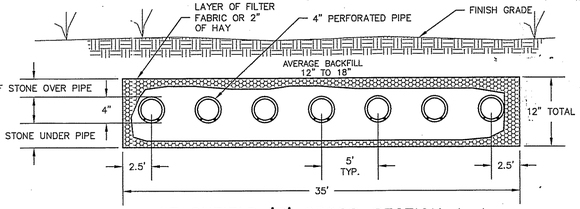
NOT TO SCALE



LEACHFIELD 'Z' PROFILE

DESIGN INTENT (PER Env-Wq 1003.06(aq)):

THE BOTTOM OF THE EFFLUENT DISPOSAL SYSTEM (EDS) SHALL BE CONSTRUCTED AT ELEVATION = 104.0 BED BOTTOM IS APPROXIMATELY 2 FEET ABOVE ORIGINAL GROUND ON THE HIGH CONTOUR OF THE DESIGNED EFFLUENT DISPOSAL AREA.



LEACHFIELD 'Z' CROSS-SECTION A-A

NOT TO SCALE

PHASE 1 OPERATION SEQUENCE:

1. LEACH FIELD 'Z' SHALL BE CONSTRUCTED FIRST UNDER PHASE 1.
2. LEACH FIELDS 'X' & 'Y' SHALL REMAIN IN USE DURING CONSTRUCTION OF LEACH FIELD 'Z'.
3. THE NEW PUMP STATION SHALL BE INSTALLED DURING PHASE 1 BUT SHALL NOT BE TIED IN TO LEACH FIELDS 'X' & 'Y' UNTIL PHASE 2.
4. THE PUMP STATION SHALL BE SETUP AS A TRIPLEX STATION. THE PUMPS SHALL BE PLUMBED W/ A MANIFOLD TO CONNECT ALL OF THEM TO LEACH FIELD 'Z'. THEN LATER, UNDER PHASE 2, TWO OF THEM SHALL BE SWITCHED TO LEACH FIELDS 'X' & 'Y'.
5. ONCE LEACH FIELD 'Z' HAS BEEN INSPECTED AND APPROVED FOR BACKFILL, THE PUMP STATION SHALL BE CONNECTED TO THE RECEIVING TANK.
6. ONCE THE RECEIVING TANK HAS BEEN CONNECTED TO THE PUMP STATION AND THE GRAVITY FEED TO LEACH FIELDS 'X' & 'Y' HAS BEEN DISCONNECTED, THE RECONSTRUCTION OF LEACH FIELDS 'X' & 'Y' MUST BEGIN IMMEDIATELY. THE RECONSTRUCTION OF AT LEAST 1 LEACH FIELD MUST BE ONLINE WITHIN 1 WEEK OF THE BEGINNING OF CONSTRUCTION. THIS IS A MINIMAL REQUIREMENT. THE GOAL IS TO GET BOTH LEACH FIELDS 'X' & 'Y' BACK ONLINE AT THE SAME TIME.

BOUNDARY NOTE:

THIS IS NOT A BOUNDARY SURVEY. THIS PLAN IS PREPARED FOR SEPTIC SYSTEM APPROVAL AND INSTALLATION PURPOSES ONLY. LIABILITY FOR ACTIONS UNDERTAKEN IN RELIANCE UPON THIS PLAN, AS THEY RELATE TO THE SETBACKS FROM BOUNDARY LINES, RESTS SPECIFICALLY WITH THE INSTALLER AND/OR OWNER.

GRAPHIC SCALE

20 0 10 20 40 80

(IN FEET)

1 inch = 20 ft.

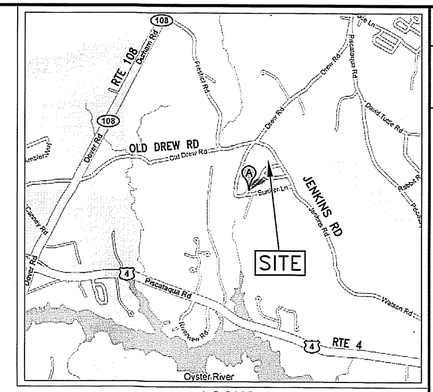
PHASE 1 INSPECTION SCHEDULE:

IN ACCORDANCE WITH Env-Wq 1004.06(c), THIS SYSTEM CONSTRUCTION SHALL BE INSPECTED BY THE DESIGNER/ENGINEER OR APPROVED EQUAL:

1. THE BED AND FILL EXTENSION AREA SHALL BE ISPECTED PRIOR TO PLACING FILL.
2. THE FILL SURFACE SHALL BE INSPECTED BETWEEN SUCCESSIVE LAYERS OF FILL.
3. TOP OF FILL SHALL BE INSPECTED PRIOR TO PLACING SEPTIC STONE.
4. SYSTEM SHALL BE INSPECTED PRIOR TO COVERING.
5. PUMP STATION SHALL BE INPECTED PRIOR TO STARTUP.
6. ENGINEER SHALL PROVIDE WRITTEN CERTIFICATION TO DOCUMENT THAT THE ABOVE INSPECTION SCHEDULE HAS BEEN MET AND THE CONSTRUCTION MEETS THE PLANS AND REQUIREMENTS.

NHDES SEPTIC APPROVAL No.:

PREVIOUS NHDES SEPTIC APPROVAL No.: CA2006081146 & CA2004061755-A



LOCUS

N.T.S.

GENERAL NOTES:

1. THE GENERAL CONTRACTOR IS RESPONSIBLE FOR LOCATING THE PROPOSED LEACH FIELD.
2. THIS PLAN IS TO SHOW THE DESIGN OF THE SUBSURFACE SEWAGE DISPOSAL SYSTEM ONLY. THE SYSTEM IS DESIGNED FOR FLOWS ESTIMATED UNDER THE DESIGN CRITERIA.
3. THE SYSTEM IS DESIGNED ONLY TO ACCOMMODATE SANITARY SEWAGE ASSOCIATED WITH NORMAL DOMESTIC USAGE AND CONSISTING OF WATER-CARRIED PUTRESCIBLE WASTE.
4. THE SYSTEM IS NOT DESIGNED FOR GARBAGE GRINDERS.
5. THE SYSTEM SHALL BE VENTED THROUGH BUILDING PLUMBING AS REQUIRED BY BUILDING CODE.
6. APPLICABLE ZONING REGULATIONS SHALL BE CONFIRMED BY THE OWNER PRIOR TO CONSTRUCTION.
7. THE PLAN SHOWS ONLY THOSE FEATURES THAT WERE VISUALLY APPARENT ON THE DATE OF INSPECTION. THE ABSENCE OF SUBSURFACE STRUCTURES, UTILITIES, ETC. IS NOT INTENDED OR IMPLIED.
8. THE INSTALLER OF THE SYSTEM MUST BE LICENSED BY THE STATE OF NEW HAMPSHIRE.
9. THE DISPOSAL SYSTEM AREAS ARE TO BE RAKED (SCARIFIED) BEFORE INSTALLATION OF STONE. ALL STONES EXCEEDING 6" IN DIAMETER, ALL LOAM OR FOREIGN MATERIAL ENCOUNTERED DURING EXCAVATION ARE TO BE REMOVED FROM THE LEACHING AREA BED SURFACE.
10. THE FINISHED SURFACE OF THE LEACHING AREA SHALL BE GRADED TO ASSURE WATER RUNOFF.
11. ALL DISTURBED AREAS SHALL BE LOAMED, SEEDED AND MAINTAINED TO PREVENT EROSION.
12. THE SEPTIC TANK SHOULD BE PERIODICALLY INSPECTED AND MAINTAINED, AND SHOULD BE PUMPED WHEN SLUDGE IN THE BOTTOM EXCEEDS 1/4 THE DEPTH.
13. ALTERNATE MANUFACTURERS FOR CONCRETE STRUCTURES AND EQUIPMENT SHOWN ON THESE PLANS MAY BE USED UPON THE WRITTEN APPROVAL OF THE DESIGN ENGINEER. ALTERNATE MANUFACTURERS SHALL NOT BE USED IF THEIR EQUIPMENT REQUIRES DESIGN CHANGES.
14. IF ANY PART OF THE DESIGN IS TO BE ALTERED IN ANY WAY, THE DESIGN ENGINEER, AS WELL AS THE APPROVING AUTHORITIES, SHALL BE NOTIFIED IN WRITING BEFORE CONSTRUCTION.
15. ALL WORK IS TO COMPLY WITH THE STATE OF NEW HAMPSHIRE SANITARY CODE FOR SUBSURFACE SEWAGE DISPOSAL SYSTEMS AND ANY LOCAL BOARD OF HEALTH SUPPLEMENTARY REGULATIONS.
16. THE LOCAL BOARD OF HEALTH AGENT OR STATE INSPECTOR MAY CONDUCT PERIODIC INSPECTIONS IF NEEDED.
17. THESE PLANS AND SPECIFICATIONS ARE INTENDED TO BE EXPLANATORY OF THE WORK TO BE DONE AND OF EACH OTHER, BUT SHOULD ANY OMISSION, ERRORS OR DISCREPANCIES APPEAR, THEY SHALL BE SUBJECT TO CORRECTION AND INTERPRETATION BY THE DESIGN ENGINEER.
18. USE NEOPRENE SEALS OR AT ALL SEPTIC TANK, PUMP CHAMBER, AND D-BOX INLETS AND OUTLETS. PIPE JOINTS SHALL BE SLIP-ON OR SOLVENT WELDED.
19. 4" SCH 40 PVC PIPE SHALL BE USED THROUGH FOUNDATION TO SEPTIC TANK.
20. ANY REPLACEMENT SYSTEM WILL BE AT THE SAME LOCATION AFTER RE-DESIGN.
21. THE SEPTIC TANK AND LEACH FIELD SHALL BE A MINIMUM OF 175' FROM ANY WELL.
22. THIS ENTIRE DEVELOPMENT IS SERVICED BY MUNICIPAL WATER.
23. THESE LEACHFIELDS/DISPERSAL FIELDS ARE DESIGNED TO RECEIVE ONLY TREATED EFFLUENT FROM THE EXISTING CLEAN SOLUTIONS TREATMENT SYSTEMS. NO UNTREATED WASTEWATER SHALL BE DISCHARGED DIRECTLY TO THE FIELDS.
24. NHDES SUBDIVISION APPROVAL #: 37221
25. NO WELLS ON ADJACENT LOTS WITHIN 175' OF ISDS.
26. THERE ARE NO FOUNDATION DRAINS.

PHASE 1 CONSTRUCTION SEQUENCE:

1. REMOVE ALL TOPSOIL FROM BED AND FILL EXTENTION AREA. PROTECT OPEN EXCAVATION FROM STORMWATER RUNOFF. SILT OR OTHER DEBRIS. SCARCIFY OR RAKE ANY SMEARED OR COMPACTED AREAS TO 3" DEPTH PRIOR TO PLACING FILL OR STONE.
2. PLACE FILL IN 12" LAYERS TO PROPOSED GRADE. FILL SHALL NOT BE COMPACTED. FILL MATERIAL SHALL BE CLEAN BANKRUN SAND FREE OF TOPSOIL OR HUMUS, DREDGINGS, OR STONES MORE THAN 6 INCHES IN ANY DIMENSION. THE FIRST 6 INCHES DIRECTLY BENEATH THE BED AND EXTENDING LATERALLY ACROSS THE FILL EXTENSION SHALL CONSIST OF:
   (A) MEDIUM TO COARSE TEXTURED SAND, WITH AN EFFECTIVE SIZE OF 0.25 TO 2.0MM, NO MORE THAN 5% PASSING THE NO. 200 SIEVE, AND NO PARTICLE SIZE LARGER THAN ¾ INCHES, OR
   (B) MATERIALS MEETING THE ASTM C-33 SPECIFICATION.
3. SCARIFY BED AREA PRIOR TO PLACING EACH SUCCESSIVE LAYER.
4. PLACE A MINIMUM 6" THICK LAYER OF STONE MEEETING THE FOLLOWING SPECIFICATIONS (Env-Wq - TABLE 1014-2):

EFFECTIVE SIZE OF 0.25-2.0 mm	
SIEVE SIZE:	% PASSING BY WEIGHT:
2"	100
1"	90-100
¾"	0-20
#4	0-5
#200	0-1.5

5. SET LEACHING LINES AND DISTRIBUTION BOX LEVEL.
6. PLACE SEPTIC STONE AROUND PIPES AND 2" ABOVE PIPES. COVER STONE WITH FITER FABRIC OR 2" OF HAY PRIOR TO BACKFILLING.
7. GRADE TOP OF BED TO MATCH PROPOSED FINISHED GRADE. SIDE GRADE SHALL BE CROWNED TO DRAIN.
8. SEPTIC TANK AND DISTRIBUTION BOX SHALL HAVE RISERS AS REQUIRED.
9. PROVIDE ACCESS AT GRADE TO SEPTIC TANK.
10. MJS ENGINEERING RECOMMENDS INSTALLING PVC INSPECTION PIPES AT D-BOXES AND AT LEAST 2 LOCATIONS WITHIN STONE BEDS.

NO.	REVISIONS	DATE	INT.
3.	AMENDED INLET PIPE AT D-BOX	4/29/09	MS
2.	REV. BASED ON ADDITIONAL SOILS INVESTIGATION	12/22/08	JLG
1.	REVISIONS PER NHDES LETTER DATED 11/4/08	11/7/08	MS

AMENDED SEPTIC PLAN FOR LEACH FIELD 'Z'
prepared for
BUNKER LANE CONDOMINIUM ASSOC. OF UNIT OWNERS, INC.
(TAX MAP 13, LOT 52)
BUNKER LANE MADBURY, NH

SEAL: Designer of Subsurface Disposal Systems * * * Michael J. Sievert No. 773 Water Supply & Pollution Control

DATE: 10/22/08
SCALE: 1"=20'
DESIGNED BY: MJS
DRAWN BY: DPB
APPROVED BY: MJS
DWG FILE: 08-028 SEPTIC D.dwg

MJS ENGINEERING, PC
CIVIL ENVIRONMENTAL CONSULTING ENGINEERING
5 RAILROAD ST., P.O. BOX 359 NEWMARKET, NH 03857
PHONE (603) 659-6560 (603) 659-4627
E-MAIL: MJS@MJS-ENGINEERING.COM

JOB: 08-028

AMENDED
ACCEPTED WITH THE
REQUIREMENTS STATED IN N.H. DEPT. OF ENVIRONMENTAL SERVICES
WATER DIVISION
Signed _____
Date 5/19/09

APR 30 2009

as built