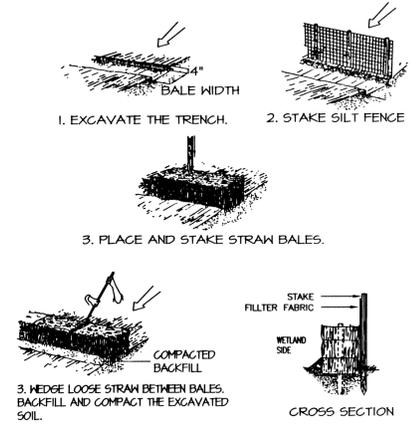
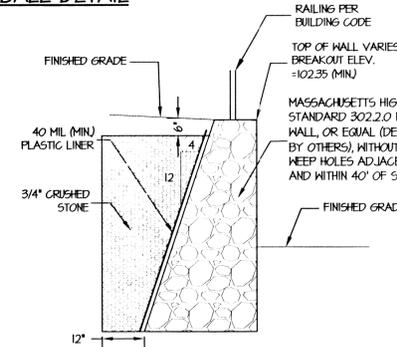


BENCH MARK
TOP OF IRON ROD
ELEV. = 100.00 (ASSUMED)

PLAN
SCALE 1" = 30'



SILT FENCE WITH HAY BALE DETAIL



IMPERVIOUS LINER DETAIL
NOT TO SCALE

EROSION & SEDIMENTATION CONTROL

1. ALL PERIMETER EROSION AND SEDIMENTATION CONTROLS MUST BE INSTALLED PRIOR TO THE COMMENCEMENT OF EARTHWORK.
2. ACCESSIBLE RESERVES OF HAY BALES AND STAKES ARE TO BE MAINTAINED ON SITE FOR ROUTINE MAINTENANCE AND IN THE EVENT OF UNANTICIPATED PROBLEMS REQUIRING EMERGENCY RESPONSE.
3. HAY BALES SHOULD BE INSTALLED IN ACCORDANCE WITH THE DETAILS PROVIDED.
4. NO WORK IS TO OCCUR ON THE WETLAND SIDE OF THE PERIMETER EROSION AND SEDIMENTATION CONTROLS. ALL PERIMETER CONTROLS SERVE AS THE PROJECT LIMIT OF DISTURBANCE.
5. NO STONES, BRUSH, CONSTRUCTION DEBRIS, LITTER, OR OTHER MATERIALS ARE TO BE DEPOSITED ON THE WETLAND SIDE OF THE EROSION AND SEDIMENTATION CONTROLS.
6. ALL DISTURBED SOILS NOT DESIGNATED FOR OTHER SURFACE TREATMENT ARE TO BE LOAMED AND SEEDED IMMEDIATELY FOLLOWING FINAL GRADING.
7. APPROPRIATE PRECAUTIONS SHOULD BE TAKEN TO PREVENT THE TRANSPORT OF SOIL OFFSITE FROM CONSTRUCTION EQUIPMENT.
8. ALL PERIMETER EROSION AND SEDIMENTATION CONTROLS MUST BE PROPERLY MAINTAINED AND MUST REMAIN IN PLACE UNTIL THE SOILS HAVE BEEN STABILIZED TO THE SATISFACTION OF THE ENGINEER AND THE SEEKONK CONSERVATION COMMISSION.
9. THE RETAINING WALL WILL SERVE AS THE LIMIT OF LAWN AND FUTURE YARD ACTIVITIES.

SEWAGE DISPOSAL SYSTEM NOTES:

1. ALL WORK SHALL CONFORM TO THE 300 CMR (500) STATE ENVIRONMENTAL CODE - TITLE 5 AND THE RULES AND REGULATIONS OF THE DEPT. OF HEALTH.
2. SURFACE EROSION, GULCHING, AND UNDESIRABLE MATERIALS MUST BE REMOVED AND ANY IMPROVED OR STABILIZED SOIL IN THE AREA OF THE SYSTEM MUST BE PLACED AND COMPACTED HORIZONTALLY IN ALL DIRECTIONS WHERE POSSIBLE. SURFACE MATERIAL VERTICALLY TO BE PLACED INTO THE GULCHES. REPAIRS TO THE GULCHES SHALL BE MADE WITH GRANULAR FILL MEETING THE LATEST SPECIFICATIONS OF 300 CMR 2.05.
3. THE CONTRACTOR IS TO REMOVE ALL UNDESIRABLE MATERIAL BELOW THE PROPOSED SOIL ABSORPTION SYSTEM PRIOR TO INSTALLATION. SEE FIELD OPERATIONAL NOTES FOR DATA FOR FURTHER INFORMATION.
4. ALL PIPE TO BE 4" P.V.C. SCHEDULE 40 UNLESS OTHERWISE NOTED.
5. PLACE OF MANHOLE CONCRETE COVERED STONE (MIN. 18" DIA.) AND DISTRIBUTION BOX.
6. IF CONDITIONS ENCOUNTERED DURING CONSTRUCTION VARY SUBSTANTIALLY FROM THOSE SHOWN ON THIS PLAN NOTIFY DESIGNER BEFORE PROCEEDING WITH CONSTRUCTION. IF IN DOUBT, ASK. GARBAGE CONTAINERS ARE NOT ALLOWED WITHIN THIS AREA.
7. INLET AND OUTLET TEES FOR SEPTIC TANK ARE TO BE LOCATED DIRECTLY BELOW ACCESS COVERS.
8. IT IS RECOMMENDED THAT THE SEPTIC TANK BE INSPECTED ONCE A YEAR AND BE CLEANED WHEN THE SOLIDS EQUAL ONE THIRD THE LIQUID DEPTH.
9. BREAKOUT ELEVATION = 96.75. NO FINISHED GRADE BELOW 96.75 FOR 10 FEET MINIMUM FROM THE EDGE OF THE LEACHING AREA EXCEPT WHERE PREPARED BY OTHERS AND NOTED.
10. CONTRACTOR SHALL CONTACT TOWN SAFETY PRIOR TO CONSTRUCTION. LOCATION OF UTILITIES ON THIS PLAN ARE FROM EXISTING INFORMATION AND ARE TO BE CONFIRMED APPROPRIATE.
11. ALL STONE USED FOR CONSTRUCTION OF THE SOIL ABSORPTION SYSTEM MUST BE AS SPECIFIED BY 300 CMR 2.02. STONE MUST BE WASHED REPEATEDLY UNTIL THIS SPECIFICATION IS MET. ACTUAL STONE MATERIAL HAS ALSO BEEN SUBMITTED TO APPROVAL BY THE DESIGN NUMBER AND/OR SEEKONK HEALTH AGENT.
12. MATERIAL AND EQUIPMENT FROM ALTERNATE MANUFACTURERS MAY BE USED IF EQUAL. APPROVAL FOR ALTERNATE MATERIAL AND/OR EQUIPMENT REQUIRED FROM THE OWNER AND THE TOWN PRIOR TO CONSTRUCTION. FULL SPECIFICATIONS FOR ALTERNATE EQUIPMENT MUST BE PROVIDED BY THE CONTRACTOR.
13. THE DESIGNER EXPRESSLY DISCLAIMS ANY RESPONSIBILITY FOR MONITORING INSTALLATION OR SUPERVISING THE ACTUAL CONSTRUCTION. AT ITS EXCLUSIVE RISK AND WITHOUT LIABILITY FOR ANY IMPORTED MATERIAL, CONTACT THE DESIGNER OR HEALTH AGENT FOR A FURTHER EXPLANATION OF THE SYSTEM. AFTER SYSTEM IS COMPLETE, THE CONTRACTOR SHALL BACKFILL CONTACT THE DESIGNER (MIN. 48 HOURS NOTICE) TO VERIFY THE LOCATION AND ELEVATION OF SYSTEM COMPONENTS AND PREPARE A RECORDED DRAWING AS REQUIRED BY THE BOARD OF HEALTH.
14. THE DESIGNER EXPRESSLY DISCLAIMS ANY RESPONSIBILITY FOR THE INSTALLATION AND MAINTENANCE OF THE SYSTEM. IT SHALL BE THE RESPONSIBILITY OF THE INSTALLER TO CONSTRUCT THE SYSTEM IN ACCORDANCE WITH 300 CMR 2.00 AND LOCAL BOARD OF HEALTH REGULATIONS AND THE RESPONSIBILITY OF THE OWNER FOR PROPER MAINTENANCE OF THE SYSTEM IN ACCORDANCE WITH 300 CMR 2.00 AND THE LOCAL BOARD OF HEALTH REGULATIONS.
15. REFER TO 300 CMR 2.00 AND THE LOCAL BOARD OF HEALTH REGULATIONS FOR ADDITIONAL INFORMATION CONCERNING THE CONSTRUCTION AND OPERATION OF THE SYSTEM. THE INSTALLER AND OWNER SHOULD REVIEW AND ACCEPT 300 CMR 2.00 AND THE LOCAL BOARD OF HEALTH REGULATIONS.
16. SYSTEM TO BE CONSTRUCTED BY AN INSTALLER LICENSED BY THE SEEKONK BOARD OF HEALTH.
17. RELATIVELY DRY NATURAL SOIL. THE CONTRACTOR SHALL PROVIDE FOR DEWATERING AS REQUIRED AND ALL WORK SHALL BE PERFORMED UNDER DRY CONDITIONS. THE SOILS TO BE DISPOSED OF MUST BE FILTERED THROUGH A STAINY EXHAUSTING BAG (OR EQUAL) PRIOR TO ENTERING A PUBLIC ROADWAY STORM DRAINAGE SYSTEM.

DESIGN DATA

DAILY SEWAGE FLOW
PROPOSED BEDROOMS = FOUR
DAILY FLOW = 110 GAL/DAY/BEDROOM x 4 BEDROOMS = 440 GALLONS PER DAY
SEPTIC TANK REQUIREMENTS
VOLUME = 2 x DAILY FLOW = 880 GALLONS
MINIMUM SIZE = 1500 GALLONS
LEACHING AREA REQUIREMENTS
PERCOLATION RATE = 2 MINUTES PER INCH
DESIGN FOR 5 MINUTES PER INCH - SOIL TEXTURE CLASS = 1
EFFLUENT LOADING RATE = 0.14 GALLONS PER SQUARE FOOT
SIDEWALL AREA = (16x2) + (12x2) x 2 FEET = 112 SQUARE FEET
BOTTOM AREA = 36' x 12' = 432 SQUARE FEET
TOTAL LEACHING AREA = 624 SQUARE FEET
TOTAL LEACHING CAPACITY
= 624 S.F. x 0.14 GAL/DAYS.F. = 462 GAL/DAYS x 440 GPD

DEEP OBSERVATION HOLE #1 LOG
ORIGINAL GRADE - 91.5

DEPTH	SOIL HORIZON	SOIL TEXTURE	SOIL COLOR	SOIL MOTTLING	OTHER
0 - 12"	A _p	SANDY LOAM	10 YR 3/3		MASSIVE, FRIABLE
12" - 24"	B ₁	SANDY LOAM	10 YR 3/6		MASSIVE, FRIABLE
24" - 52"	C ₁	SANDY LOAM	2.5 Y 4/2		MASSIVE, FRIABLE
52" - 120"	C ₂	LOAMY SAND	2.5 Y 3/3		SINGLE GRAIN, LOOSE, GRAVELLY, COBBLE

OBSERVED STANDING GROUNDWATER - NONE
MONITORING PIPE READINGS - DRY @ 101' - 42.25'
PERCOLATION TEST AT 52" x 18" = 2 MINUTES/INCH

DEEP OBSERVATION HOLE #2 LOG
ORIGINAL GRADE - 96.04

DEPTH	SOIL HORIZON	SOIL TEXTURE	SOIL COLOR	SOIL MOTTLING	OTHER
0 - 9"	A _p	SANDY LOAM	10 YR 3/3		MASSIVE, FRIABLE
9" - 34"	B ₁	LOAMY SAND	10 YR 3/6		MASSIVE, FRIABLE
34" - 108"	C ₁	LOAMY SAND	2.5 Y 3/3		SINGLE GRAIN, LOOSE, GRAVELLY, COBBLE

OBSERVED STANDING GROUNDWATER - NONE
MONITORING PIPE READINGS - DRY @ 101' - 42.25'
PERCOLATION TEST AT 43" x 18" = 2 MINUTES/INCH

WITNESS: MR. CHEENEVET, SEEKONK BOARD OF HEALTH
TESTING PERFORMED BY: CAPUTO AND WICK LTD.
DATE OF SOIL TEST - MARCH 23, 1998

OWNER:

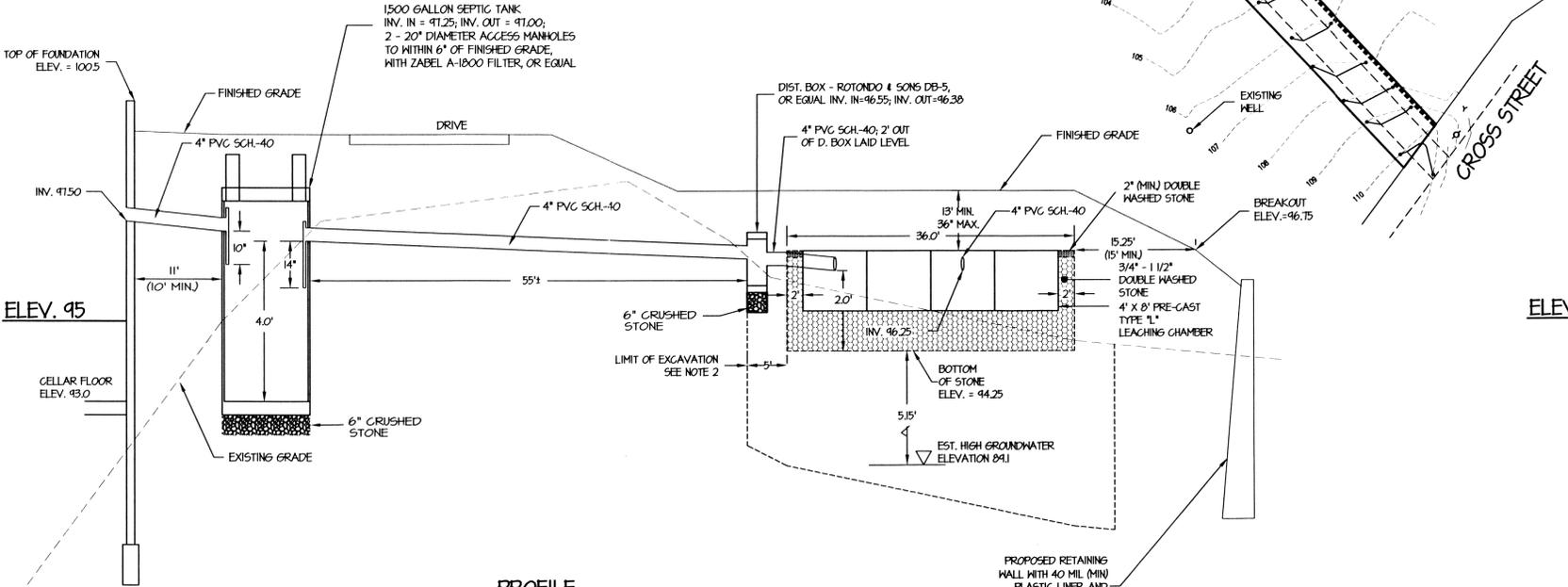
HOWITT 2002 FAMILY LIMITED PARTNERSHIP
425 PINE STREET
SEEKONK, MA 02771
ZONE: R-4

LEGEND

- 100- EXISTING CONTOUR
- 100 MA. STD. PROPOSED CONTOUR
- INVERT OF PIPE
- P.V.C. CHLORIDE PIPE
- S. D. R. STANDARD DIMENSION RATIO
- R. C. P. REINFORCED CONCRETE PIPE
- CONC. CONCRETE (BIT. OR P. C.)
- BIT. BITUMINOUS
- P. PORTLAND CEMENT
- TYP. TYPICAL
- F.G. 100x100 FINISHED SPOT GRADE
- 100x100 EXISTING SPOT GRADE
- T.G. TOP OF CURB
- B. C. BOTTOM OF CURB
- P. C. PROPERTY LINE
- x-GLF-x- CHAIN LINK FENCE
- ST SEPTIC TANK
- DB DISTRIBUTION BOX
- DB DEEP OBSERVATION HOLE

Received
AUG 2 2005
Con. Comm.

69-572



PROFILE
SCALES
HORIZONTAL 1" = 10'
VERTICAL 1" = 2'

CROSS SECTION
SCALES
HORIZONTAL 1" = 10'
VERTICAL 1" = 2'

NOTES:

1. MASSACHUSETTS NATURAL HERITAGE AND ENDANGERED SPECIES PROGRAM PRIORITY AND ESTIMATED HABITAT POLYGONS NOT PRESENT WITHIN PROJECT LIMITS, AS SHOWN IN THE MASSACHUSETTS NATURAL HERITAGE ATLAS, 11TH EDITION.
2. THIS PARCEL DOES NOT LIE WITHIN A 100 YEAR FLOOD HAZARD ZONE AS SHOWN ON THE FLOOD INSURANCE RATE MAP OF THE TOWN OF SEEKONK ON COMMUNITY PANEL NO. 2500683 0005 A DATED SEPTEMBER 5, 1994.



SEWAGE DISPOSAL SYSTEM
HOWITT 2002 FAMILY LIMITED PARTNERSHIP
CROSS ST. and WOODLAND AVE.
SEEKONK, MASSACHUSETTS

CAPUTO AND WICK LTD. DATE: MAY 27, 2005
1150 PAWTUCKET AVE. RUMFORD, RI. 02916 SHEET: 1 OF 1
401-434-8880

REV. 8/19/05