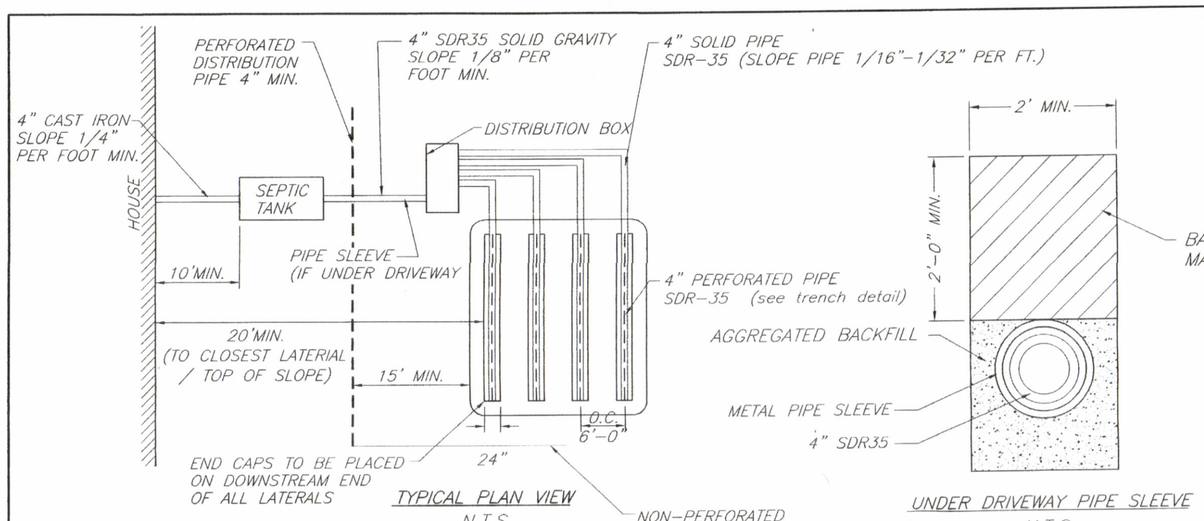
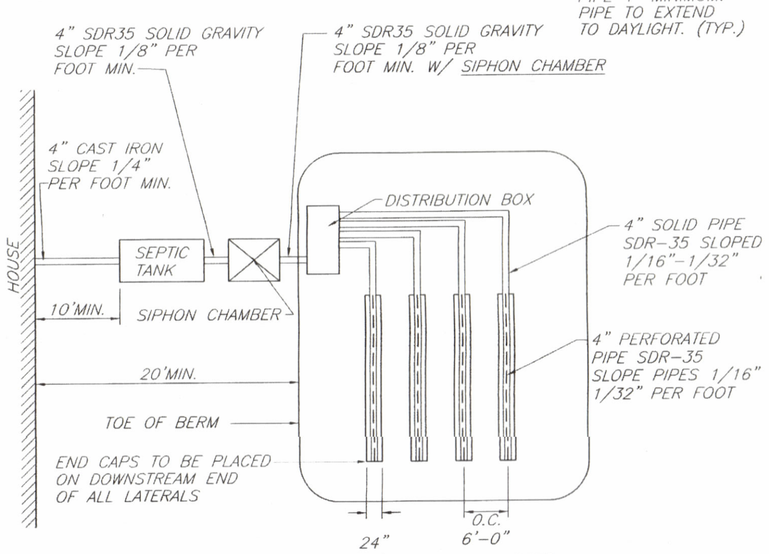
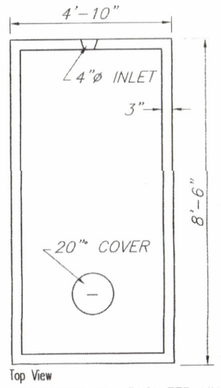


TYPICAL PLAN VIEW
N.T.S

UNDER DRIVEWAY PIPE SLEEVE
N.T.S.

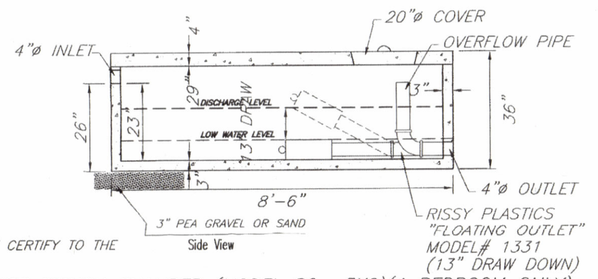


TYPICAL PLAN VIEW (SIPHON CHAMBER)
N.T.S



Top View

A N.Y.S. PROFESSIONAL ENGINEER MUST CERTIFY TO THE INSTALLATION OF THE SIPHON CHAMBER.



Side View

LOT #13 WOODARD'S PRECAST SIPHON CHAMBER (MODEL SC- 5X9)(4 BEDROOM ONLY)
N.T.S.

DOSING CALCULATION
75% x 520lf. x 0.653gal./lf.=254.67gal.
4'-4"x8'-0"x7.48gal./cf X 1'/12"=21.60 gal/in
254.67gal. / 21.6gal/in= 11.79" (USE 12")

STANDARD NOTES:

THE DESIGN, CONSTRUCTION AND INSTALLATION SHALL BE IN ACCORDANCE WITH THIS PLAN AND GENERALLY ACCEPTED STANDARDS IN EFFECT AT THE TIME OF CONSTRUCTION WHICH INCLUDE:

"APPENDIX 75-A, WASTE TREATMENT - INDIVIDUAL HOUSEHOLD SYSTEMS, NEW YORK STATE SANITARY CODE."
"WASTE TREATMENT HANDBOOK, INDIVIDUAL HOUSEHOLD SYSTEMS, NEW YORK STATE DEPARTMENT OF HEALTH."
"RURAL WATER SUPPLY, NEW YORK STATE DEPARTMENT OF HEALTH."
"PLANNING THE SUBDIVISION AS PART OF THE TOTAL ENVIRONMENT, NEW YORK STATE DEPARTMENT OF HEALTH."
"NEW YORK STATE DEPARTMENT OF HEALTH AND DUTCHESS COUNTY DEPARTMENT OF HEALTH POLICIES, PROCEDURES AND STANDARDS."
"DUTCHESS COUNTY DEPARTMENT OF HEALTH SANITARY CODE, ARTICLE XI AND ARTICLE XIX."
"DUTCHESS COUNTY DEPARTMENT OF HEALTH CERTIFICATE OF APPROVAL LETTER."

"THIS PLAN IS APPROVED AS MEETING THE APPROPRIATE AND APPLIED TECHNICAL STANDARDS, GUIDELINES, POLICIES AND PROCEDURES FOR ARRANGEMENT OF SEWAGE DISPOSAL AND TREATMENT AND WATER SUPPLY FACILITIES; AND, AS A CONDITION OF THIS APPROVAL, A CONSTRUCTION INSPECTION BY A REPRESENTATIVE OF THE DUTCHESS COUNTY HEALTH DEPARTMENT SHALL BE DONE TO DETERMINE THAT CONSTRUCTION AT THE TIME OF INSPECTION WAS COMPLETED IN GENERAL CONFORMANCE WITH THE APPROVED PLANS AND ANY AMENDMENT THEREOF."

"APPROVAL OF ANY PLAN'S) OR AMENDMENT THERETO SHALL BE VALID FOR A PERIOD OF FIVE YEARS FROM THE DATE OF APPROVAL. FOLLOWING THE EXPIRATION OF SAID APPROVAL, THE PLAN'S) SHALL BE RESUBMITTED TO THE COMMISSIONER OF HEALTH FOR CONSIDERATION FOR RE-APPROVAL. RE-SUBMISSION OR REVISED SUBMISSION OF PLANS AND/OR ASSOCIATED DOCUMENTS SHALL BE SUBJECT TO COMPLIANCE WITH THE TECHNICAL STANDARDS, GUIDELINES, POLICIES AND PROCEDURES IN EFFECT AT THE TIME OF THE RE-SUBMISSION."

THE DUTCHESS COUNTY DEPARTMENT OF HEALTH SHALL BE CONTACTED PRIOR TO THE COMMENCEMENT OF THE HOME CONSTRUCTION AND/OR ISSUANCE OF A BUILDING PERMIT FOR A PRE-CONSTRUCTION INSPECTION TO ENSURE THAT THE ARRANGEMENTS FOR WATER SUPPLY AND SEWAGE DISPOSAL ARE COMMENCED IN ACCORDANCE WITH THE APPROVED PLANS AND AMENDMENTS THERETO AND GENERALLY ACCEPTED STANDARDS.

ALL WELLS AND S.D.S. EXISTING OR APPROVED WITHIN 200' OF THE PROPOSED WELLS AND S.D.S. ARE SHOWN ON THIS PLAN ALONG WITH ANY OTHER ENVIRONMENTAL HAZARDS IN THE AREA THAT MAY AFFECT THE DESIGN AND FUNCTIONAL ABILITY OF THE S.D.S. AND WELL.

ALL PROPOSED WELLS AND SERVICE LINE ON THIS PLAN ARE ACCESSIBLE FOR INSTALLATION AND PLACEMENT.

SEWAGE DISPOSAL SYSTEMS SHALL NOT BE INSTALLED IN WET OR FROZEN SOIL.

THE UNDERSIGNED OWNERS OF THE PROPERTY HEREON STATE THAT THEY ARE FAMILIAR WITH THIS MAP, ITS CONTENTS AND ITS LEGENDS AND HERBY CONSENT TO ALL SAID TERMS AND CONDITIONS AS STATED HEREON.

SEPTIC SYSTEM GENERAL NOTES:

1. ALL PORTIONS OF THE SEPTIC FIELD WILL BE A MINIMUM DISTANCE OF 200' UP SLOPE IF WITHIN DIRECT LINE OF DRAINAGE AND A MINIMUM OF 100' DOWN SLOPE FROM ANY WELL.
2. SEPTIC TANK TO BE LOCATED A MINIMUM DISTANCE OF 10 FEET FROM ANY BUILDING OR PROPERTY LINE.
3. CELLAR DRAINS, ROOF DRAINS OR FOOTING DRAINS SHALL NOT BE DISCHARGED IN THE VICINITY OF ABSORPTION FIELD.
4. SWIMMING POOLS, DRIVEWAYS, OR STRUCTURES THAT MAY COMPACT THE SOIL SHALL NOT BE CONSTRUCTED OVER ANY PORTION OF THE ABSORPTION FIELD.
5. TRENCHES SHALL NOT BE INSTALLED IN WET OR FROZEN SOIL.
6. RAKE SIDES AND BOTTOM OF TRENCH PRIOR TO PLACING GRAVEL IN ABSORPTION TRENCH.
7. GROUT ALL PIPE PENETRATIONS TO CONC. SEPTIC TANK & DISTRIBUTION BOX.
8. DISTRIBUTION LINE ARE TO BE CAPPED.
9. THE PERIMETER OF THE ABSORPTION FIELD SHOULD BE GRADED TO DIVERT SURFACE WATER.
10. ALL NEWLY DISTURBED AREAS SHALL BE IMMEDIATELY STABILIZED UPON CONSTRUCTION COMPLETION USING GRASS SEED & MULCH.
11. NO SEWAGE SYSTEM SHALL BE PLACED WITH IN 25' OF ANY WATER COURSE DRAINAGE DITCH, OR STORM DRAIN PIPE.
12. ALL LAUNDRY AND KITCHEN WASTES SHALL BE DISCHARGED INTO SEWAGE SYSTEM.
13. BENDS SHALL BE USED WHEN ENTRANCE OR EXIT FROM SEPTIC TANK IS NOT APPROXIMATELY STRAIGHT. IF BENDS ARE USED AT POINTS OTHER THAN ENTRANCE OR EXIT POINTS, THEN A CLEAN OUT IS REQUIRED.
14. THE DESIGN AND LOCATION OF THE SANITARY FACILITIES SHALL NOT BE CHANGED WITHOUT RESUBMISSION FOR APPROVAL.
15. HEAVY EQUIPMENT SHALL BE KEPT OFF THE AREA OF THE ABSORPTION FIELDS EXCEPT DURING THE ACTUAL CONSTRUCTION. THERE SHALL BE NO UNNECESSARY MOVEMENT OF CONSTRUCTION EQUIPMENT IN THE ABSORPTION FIELD AREA BEFORE, DURING, OR AFTER CONSTRUCTION.
16. THIS SYSTEM WAS NOT DESIGNED TO ACCOMMODATE GARBAGE GRINDERS, JACUZZI TYPE SPA TUBS OVER 100 GALLONS, OR WATER CONDITIONERS. AS SUCH, THESE ITEMS SHALL NOT BE INSTALLED UNLESS THE SYSTEM IS REDESIGNED TO ACCOUNT FOR THESE, AND REAPPROVED BY THE DUTCHESS COUNTY DEPARTMENT OF HEALTH.
17. THERE MUST BE AN UNINTERRUPTED POSITIVE SLOPE FROM THE SEPTIC TANK (OR ANY PUMPING OR DOSING CHAMBER) TO THE HOUSE, ALLOWING SEPTIC GASES TO DISCHARGE THROUGH THE STACK VENT.
18. ALL WELLS, SEWAGE DISPOSAL SYSTEMS, AND CURTAIN DRAINS SHALL BE STAKED OUT BY A NEW YORK STATE LISCENSED LAND SURVEYOR PRIOR TO CONSTRUCTION.

EXISTING HOUSE'S AND SEPTIC SYSTEMS(LOT #20)

THAT THE EXISTING SEWERAGE DISPOSAL SYSTEM AND/OR WATER SUPPLY WAS INSTALLED PRIOR TO THE DATE OF THIS APPROVAL AND THEREFORE THIS APPROVAL SHALL NOT BE CONSTRUED TO MEAN THAT THE FUNCTIONAL ABILITY OR ADEQUACY OF THE SEWERAGE DISPOSAL SYSTEM AND/OR WATER SUPPLY ON LOT #20 HAS BEEN APPROVED OR ACCEPTED.
THAT ANY CONSTRUCTION OF A SEWERAGE DISPOSAL SYSTEM AND/OR WATER SUPPLY ON AN AREA OF AN EXISTING LOT(S) WHICH IS NOT EXISTING AT THE TIME OF THIS APPROVAL BUT WAS APPROVED AS PART OF THIS APPROVAL SHALL BE INSPECTED AND APPROVED BY THE DUTCHESS COUNTY DEPARTMENT OF HEALTH PRIOR TO USE.

FILL SYSTEM NOTES

ALL LOTS SHOWN WITH FILL SYSTEMS ARE REQUIRED TO INSTALL FILL IN BOTH MAIN & RESERVE AREA AT TIME OF SEPTIC INSTALLATION, NO DEVIATION WILL BE ACCEPTED BY THE D.C.H.D.!

1. THE FILL MATERIAL SHALL BE PLACED ABOVE THE NATURAL SOIL ON THE EXISTING LOT.
2. THE FINAL SLOPE NOT TO EXCEED 15%.
3. PERCOLATION TESTS SHALL BE CONDUCTED IN THE FILL MATERIAL AT THE BORROW PIT AND AFTER PLACEMENT AND SETTLING AT THE CONSTRUCTION SITE.
4. A SYSTEM SHALL NOT BE BUILT IN UNSTABILIZED FILL MATERIAL. THE FILL MATERIAL SHALL BE ALLOWED TO SETTLE NATURALLY FOR A PERIOD OF AT LEAST SIX MONTHS TO INCLUDE ONE FREEZE-THAW CYCLE OR MECHANICALLY COMPETED IN 6" LIFTS.
5. THE ENTIRE SURFACE OF THE SYSTEM INCLUDING THE TAPERS SHALL BE COVERED WITH A MINIMUM OF SIX INCHES OF TOPSOIL, MOUNDED TO ENHANCE THE RUNOFF OF RAINWATER FROM THE SYSTEM AND SEEDED TO GRASS.

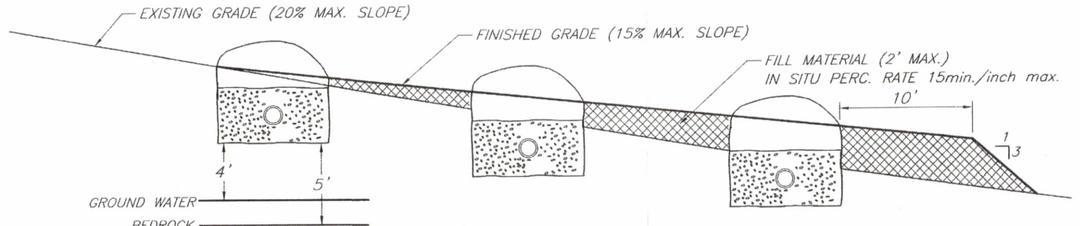
SEPTIC FILL SPECIFICATION

SAND AND GRAVEL FILL, WITH A STABILIZED PERCOLATION RATE WHICH IS LESS THAN OR EQUIVALENT TO THE PERCOLATION RATE OF VIRGIN SOIL, AND NO MORE THAN 15 MINUTES PER INCH.

THE DESIGN ENGINEER SHALL CERTIFY IN WRITING THAT THE FILL MATERIAL IS IN PROPER PLACE, IS OF THE PROPER QUANTITY AND DIMENSIONS, AND IS OF PROPER QUALITY. PROPER QUALITY MUST BE DEMONSTRATED BY STABILIZED TEST, THE RESULT OF WHICH SHALL BE SUBMITTED WITH THE ENGINEER'S CERTIFICATION.

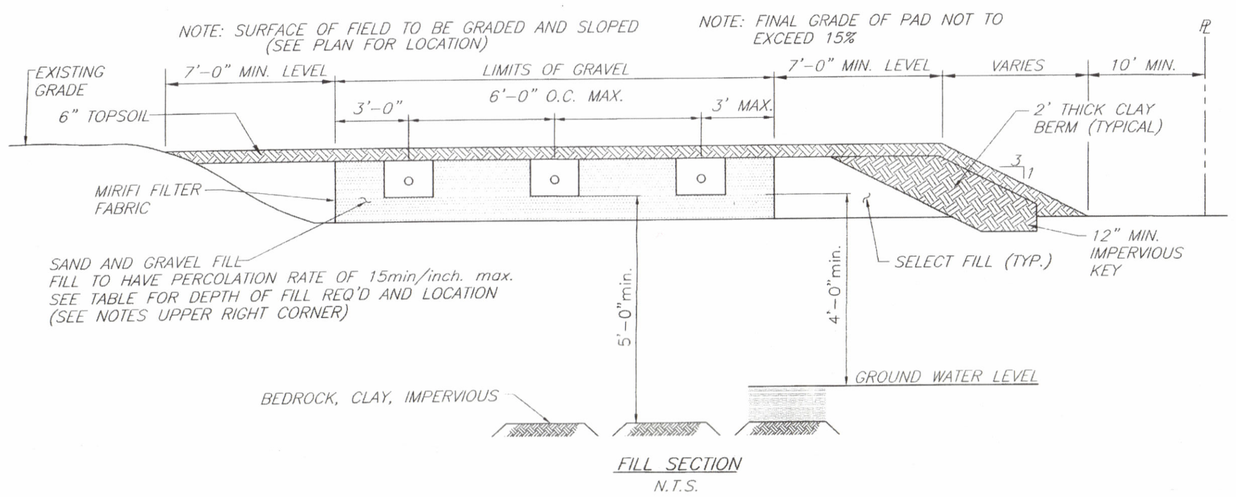
CURTAIN DRAIN NOTE

INSTALLATION OF THE CURTAIN DRAINS FOR SEWAGE DISPOSAL SYSTEMS SHALL BE CERTIFIED TO DCDH BY A NEW YORK STATE LISCENSED PROFESSIONAL ENGINEER.

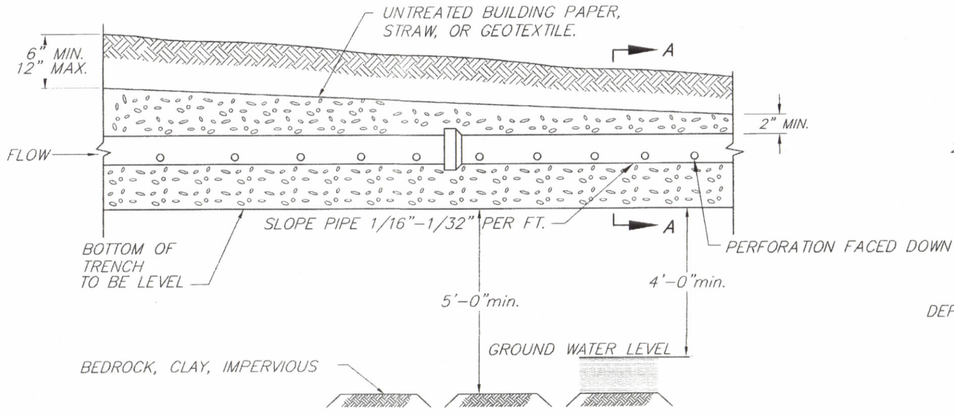


ABSORPTION TRENCH DETAIL (OVER 15% GRADE)
N.T.S.

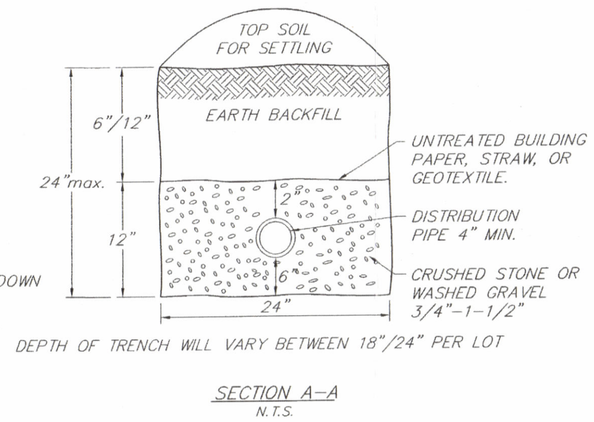
NOTE:
1. FILL MATERIAL CANNOT EXCEED 15min/inch DESIGN RATE.
2. FILL MUST EXTEND AT LEAST 10' IF TRENCH (STONE AND PIPE) IS INSTALLED IN NATIVE SOIL.
3. TRENCH (STONE AND PIPE) ELEVATION INTO FILL WILL REQUIRE A FILL EXTENSION OF 25' OR THE USE OF OUR TYPICAL FILL SYSTEM.
4. THE ENTIRE SURFACE OF THE SYSTEM INCLUDING THE TAPERS SHALL BE COVERED WITH A MINIMUM OF SIX INCHES OF TOPSOIL, MOUNDED TO ENHANCE THE RUNOFF OF RAINWATER FROM THE SYSTEM AND SEEDED TO GRASS.
5. SEE "ABSORPTION TRENCH DETAIL(profile)" BELOW FOR MORE DETAIL.



FILL SECTION
N.T.S.

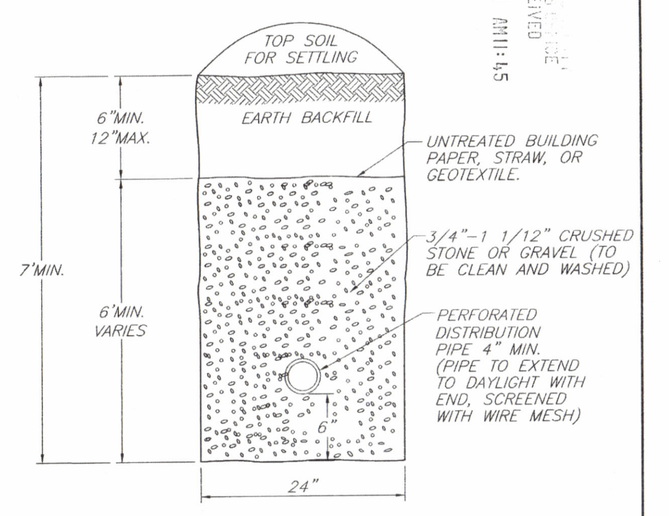


ABSORPTION TRENCH DETAIL(profile)
N.T.S.



DEPTH OF TRENCH WILL VARY BETWEEN 18"/24" PER LOT

SECTION A-A
N.T.S.



CURTAIN DRAIN SECTION
N.T.S.

NOTE: TO BE INSTALLED ON ALL LOT'S 15'min UP GRADE FROM CLOSEST LATERAL / TOP OF SLOPE OF SDS.

JUTCHESS COUNTY DEPARTMENT OF HEALTH
POUGHKEEPSIE, NEW YORK
6.30.2007
These plans are approved
see first sheet for date and signatures

2007 AUG 21 AM 11:45
RECEIVED
DUTCHESS COUNTY DEPT. OF HEALTH

TOWN OF BEEKMAN PLANNING B(

APPROVED BY RESOLUTION OF THE PLANNING BOARD OF THE TOWN OF BEEKMAN, NEW YORK ON THE 3rd DAY OF June 2007 SUBJECT TO ALL REQUIREMENTS AND CONDITIONS OF SAID RESOLUTION ANY CHANGE, ERASURE, MODIFICATION OR REVISION OF THIS PLAN, AS APPROVED SHALL VOID THIS APPROVAL.

TOWN OF BEEKMAN PLANNING BOARD
SIGNED THIS 3rd DAY OF June 2007
PLANNING BOARD CHAIRMAN

TEST WELL NOTES:

1. TEST WELLS ON LOT #'S 3,10,13,14 AND 20 WERE TESTED FOR NYS HEALTH DEPARTMENT PART 5, INORGANIC, PRINCIPLE ORGANIC CONTAMINANTS, AND TOTAL COLIFORM BACTERIA. ALL RESULTS IN REPORT WERE BELOW MAXIMUM CONTAMINANT LEVELS. EXCEPT FOR MANGANESE IN LOT 13 TEST WELL SAMPLING SEE NOTE BELOW
2. ALTHOUGH INFORMATION HAS BEEN SUBMITTED AND/OR TEST WELLS HAVE BEEN DRILLED TO AID IN DEMONSTRATING THE ADEQUACY (QUALITY AND QUANTY) OF THE WATER SUPPLY, THAT DOES NOT CONSTITUTE A GUARANTEE THAT AN ADEQUATE WATER SUPPLY IS AVAILABLE FOR EACH AND EVERY LOT.
3. TEST WELL ON LOT 13 HAVE RECORDED MANGANESE ABOVE THE NYSDOH MCL. LEVELS; COUNTS OF MANGANESE RECORDED ON 06/13/05 RESULTED IN A COUNT OF 0.32mg/l WHICH IS JUST ABOVE THE MCL OF 0.30mg/l. ITS IS RECOMMENDED THAT ALL WELLS IN THIS SUBDIVISION SHALL BE TESTED FOR THIS ELEMENT AND THE ADDITION OF WATER TREATMENT (WATER SOFTENING) BE USED IF NECESSARY.

TEST WELL RESULTS:

LOT #03: 30gpm.@225' DEPTH
LOT #10: 50gpm@260' DEPTH
LOT #13: 50gpm@130' DEPTH
LOT #14: 15gpm@300' DEPTH
LOT #20: 100gpm@440' DEPTH

SPECIAL FILL SYSTEM NOTES:

1. THE FILL MATERIAL SHALL BE PLACED ABOVE THE NATURAL SOIL ON THE EXISTING LOT.
2. THE EXISTING SLOPE NOT TO EXCEED 15%.
3. PERCOLATION TESTS SHALL BE CONDUCTED IN THE FILL MATERIAL AT THE BORROW PIT AND AFTER PLACEMENT AND SETTLING AT THE CONSTRUCTION SITE.
4. THE FILL MATERIAL SHALL HAVE A PERCOLATION RATE BETWEEN 5-10 MIN./INCH AND SHALL MAINTAIN AT LEAST FIVE FEET SEPARATION BETWEEN THE PROPOSED BOTTOM OF THE TRENCHES AND ANY BOUNDARY CONDITION SUCH AS GROUND-WATER, BEDROCK, CLAY OR OTHER RELATIVELY IMPERMEABLE SOIL OR FORMATION.
5. THE EDGE OF THE FILL MATERIAL SHALL BE TAPERED AT A SLOPE OF NO GREATER THAN ONE VERTICAL TO THREE HORIZONTAL WITH A MINIMUM 20 FOOT TAPER.
6. A SYSTEM SHALL NOT BE BUILT IN UNSTABILIZED FILL MATERIAL. THE FILL MATERIAL SHALL BE ALLOWED TO SETTLE NATURALLY FOR A PERIOD OF AT LEAST SIX MONTHS TO INCLUDE ONE FREEZE-THAW CYCLE. OR MECHANICALLY COMPACTED.
7. THE ENTIRE SURFACE OF THE SYSTEM INCLUDING THE TAPERS SHALL BE COVERED WITH A MINIMUM OF SIX INCHES OF TOPSOIL, MOUNDED TO ENHANCE THE RUNOFF OF RAINWATER FROM THE SYSTEM AND SEEDED TO GRASS.

REV.	DATE	BY	DESCRIPTION
24	06/20/07	J.J.C.	ADDED NOTE PER D.C.H.D.
23	06/11/07	J.J.C.	PRINTED MYLARS
22	03/28/07	T.D.C.	PER TOWN AND DCDPW COMMENTS
21	02/08/07	T.D.C.	PER COUNTY DPW COMMENTS
20	12/21/06	T.D.C.	PER DCDPW COMMENTS
19	08/24/06	T.D.C.	PER AGENCY COMMENTS
18	08/17/06	T.D.C.	PER AGENCY COMMENTS
17	04/28/06	T.D.C.	PER AGENCY COMMENTS
16	02/15/06	T.D.C.	PER DCHD AND TOWN COMMENTS
15	01/26/06	T.D.C.	PER TECHNICAL COMMENTS
14	09/30/05	T.D.C.	GENERAL REVISIONS
13	08/07/05	T.D.C.	GENERAL REVISIONS
12	04/28/05	T.D.C.	GENERAL REVISIONS
11	02/07/05	T.D.M.	PER P.B. 03/25/04 COMMENTS
10	06/21/04	R.B.M.	PER D.C.H.D. 12/09/03 COMMENTS
9	05/21/04	R.B.M.	REVISED
8	3/06/04	R.B.M.	PER D.C.H.D./TOWN P.B. COMMENTS
7	3/9/03	R.B.M.	PER TOWN 2/20/03 COMMENTS
6	02/07/03	R.B.M.	PER TOWN 11/21/02 COMMENTS
5	11/12/03	R.B.M.	AS PER TOWN COMMENTS
4	10/5/02	R.B.M.	AS PER TOWN COMMENTS
3	9/9/02	R.B.M.	AS PER 2/21/02 COMMENTS
2	4/24/04	R.B.M.	REVISED SEPTIC DETAILS
1	6/8/01	R.B.M.	AS PER 11/14/00 COMMENTS

THIS SHEET IS INVALID AND VOID UNLESS ACCOMPANIED BY REMAINING SHEETS IN SET.

TACONIC DESIGN
ENGINEERING, PLLC
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3125 ROUTE 9W
NEW WINDSOR, N.Y. 12553
(845)-569-8400
(FAX)(845)-569-4583

ENGINEER

CHARLES T. BROWN, P.E.
WILLIAM J. MOREAU, P.E.
P.O BOX 4470
NEW WINDSOR, N.Y. 12553
(845)-561-2582

STATE OF NEW YORK — CHARLES T. BROWN — No. 059364 — LICENSED PROFESSIONAL ENGINEER

SEPTIC DETAILS

GRID# 02-6658-00-183936, 217916, 259902

PROPOSED 20 LOT SUBDIVISION
LAKE SIDE ESTATES
TOWN OF BEEKMAN, DUTCHESS COUNTY, NY

DATE	SCALE	JOB NUMBER	SHEET NUMBER
4/26/01	AS NOTED	99128-QUA	16 OF 25

17926