



NOTES:

- ALL WORK SHALL CONFORM TO THE 310 CMR 15.00 STATE ENVIRONMENTAL CODE - TITLE 5 AND THE RULES AND REGULATIONS OF THE SEEKONK BOARD OF HEALTH.
- STRIP ALL TOPSOIL, SUBSOIL AND UNSUITABLE MATERIAL, TREE ROOTS AND STUMPS AND ANY OTHER IMPERVIOUS OR SPECIFIED SOIL IN THE AREA OF THE SYSTEM AND 5 FEET BEYOND HORIZONTALLY IN ALL DIRECTIONS, WHERE POSSIBLE. STRIP MATERIAL VERTICALLY 3" MINIMUM INTO THE C HORIZON. REPALECE WITH GRANULAR FILL MEETING THE LATEST SPECIFICATIONS OF 310CMR15.255.
- ALL PIPE TO BE 4" P.V.C. SCHEDULE 40 UNLESS OTHERWISE NOTED.
- PLACE 6" MINIMUM COMPACTED CRUSHED STONE UNDER SEPTIC TANK, PUMP CHAMBER AND DISTRIBUTION BOX.
- IF CONDITIONS ENCOUNTERED DURING CONSTRUCTION VARY SUBSTANTIALLY FROM THOSE SHOWN ON THIS PLAN, NOTIFY CAPUTO AND WICK, LTD. BEFORE PROCEEDING WITH CONSTRUCTION. IF IN DOUBT, ASK.
- GARBAGE GRINDER IS NOT ALLOWED WITH THIS DESIGN.
- INLET AND OUTLET TEES FOR SEPTIC TANK ARE TO BE LOCATED DIRECTLY BELOW ACCESS COVERS.
- SEPTIC TANK SHALL BE DESIGNED FOR 15-20-44 LOADING.
- IT IS RECOMMENDED THAT THE SEPTIC TANK BE INSPECTED TWICE A YEAR, AND BE CLEANED WHEN THE SOLIDS EQUAL ONE THIRD THE LIQUID DEPTH.
- BREAKOUT ELEVATION = 74.50. NO FINISHED GRADE BELOW 74.50 FOR 15 FEET (MINIMUM) FROM THE EDGE OF THE LEACHING AREA. NO FINISHED GRADE BELOW 74.50 FOR 10 FEET (MINIMUM) FROM THE EDGE OF THE LEACHING AREA WHERE IMPERVIOUS BARRIER IS UTILIZED.
- CONTRACTOR SHALL CONTACT "DIG-SAFE" PRIOR TO CONSTRUCTION. LOCATION OF UTILITIES ON THIS PLAN ARE FROM EXISTING INFORMATION, BUT ARE ONLY TO BE CONSIDERED APPROXIMATE.
- ALL STONE USED FOR CONSTRUCTION OF THE SOIL ABSORPTION SYSTEM MUST BE DOUBLE WASHED AS SPECIFIED BY 310 CMR 15.247. ACTUAL STONE MATERIAL MAY ALSO BE SUBJECT TO APPROVAL BY THE DESIGN ENGINEER AND/OR SEEKONK HEALTH AGENT.
- ALL EXISTING AND PROPOSED WATER WELLS FOUND WITHIN 200' OF PROPOSED SEWAGE DISPOSAL SYSTEM ARE SHOWN.
- MATERIAL AND EQUIPMENT FROM ALTERNATE MANUFACTURERS MAY BE USED IF EQUAL. APPROVAL FOR ALTERNATE MATERIAL AND/OR EQUIPMENT REQUIRED FROM ENGINEER AND THE TOWN PRIOR TO CONSTRUCTION. FULL SPECIFICATIONS FOR ALTERNATE EQUIPMENT MUST BE PROVIDED BY CONTRACTOR.
- THE DESIGNER EXPRESSLY DISCLAIMS ANY RESPONSIBILITY FOR MONITORING, INSPECTING OR SUPERVISING THE ACTUAL CONSTRUCTION WORK. AFTER EXCAVATING AND PRIOR TO INSTALLING ANY IMPORTED MATERIAL, CONTACT THE BOARD OF HEALTH AGENT FOR A BOTTOM OF EXCAVATION INSPECTION. AFTER SYSTEM COMPONENTS ARE IN PLACE AND PRIOR TO BACKFILLING, CONTACT THE DESIGNER TO VERIFY THE LOCATION AND ELEVATION OF SYSTEM COMPONENTS AND PREPARE A RECORD DRAWING AS REQUIRED BY THE BOARD OF HEALTH.
- 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 310 CMR 15.00 AND LOCAL BOARD OF HEALTH REGULATIONS AND THE RESPONSIBILITY OF THE OWNER FOR PROPERLY MAINTAINING THE SYSTEM IN ACCORDANCE WITH 310 CMR 15.00 AND THE LOCAL BOARD OF HEALTH REGULATIONS.
- REFER TO 310 CMR 15.00 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 APPLY 310 CMR 15.00 AND THE LOCAL BOARD OF HEALTH REGULATIONS SYSTEM TO BE CONSTRUCTED BY A INSTALLER LICENSED BY THE SEEKONK BOARD OF HEALTH.
- FILL MEETING THE REQUIREMENTS OF 310 CMR 15.255(3) MUST BE PLACED ON SCARIFIED, RELATIVELY DRY NATURAL SOIL. THE CONTRACTOR SHALL PROVIDE FOR DENATURING AS REQUIRED AND ALL WORK SHALL BE PERFORMED UNDER DRY CONDITIONS PER 310 CMR 15.255(6). THE DISCHARGE WATER MUST BE FILTERED THROUGH A "DANDY" DENATURING BAG, OR EQUAL, PRIOR TO ENTERING THE PUBLIC ROADWAY STORM DRAINAGE SYSTEM.

DESIGN DATA

DAILY SEWAGE FLOW
 PROPOSED WAREHOUSE - 5 EMPLOYEES
 DAILY FLOW = 15 GAL./EMPLOYEE = 75 GALLONS PER DAY
 PROPOSED OFFICE SPACE - 400 S.F.
 DAILY FLOW = 75 GAL./1000 S.F. = 30 GALLONS PER DAY - 200 GPD MIN.
TOTAL DAILY FLOW = 275 GALLONS PER DAY

SEPTIC TANK REQUIREMENTS
 VOLUME = 2 x DAILY FLOW = 550 GALLONS
 MINIMUM SIZE = 1500 GALLONS - 2 COMPARTMENT TANK

LEACHING AREA REQUIREMENTS
 PERCOLATION RATE = 18 MINUTES PER INCH
 DESIGN FOR 20 MINUTES PER INCH - SOIL TEXTURE CLASS - II
 EFFLUENT LOADING RATE = 0.53 GALLONS PER SQUARE FOOT
 SIDEWALL AREA = 0 SQUARE FEET
 BOTTOM AREA = 46' x 12' = 552 SQUARE FEET
TOTAL LEACHING AREA = 552 SQUARE FEET
TOTAL LEACHING CAPACITY
 = 552 S. F. x 0.53 GAL./DAY/S. F. = 293 GAL./DAY > 275 GPD

LEGEND

- 100- EXISTING CONTOUR
- 10000 EXISTING SPOT GRADE
- MA. STD. MASSACHUSETTS STANDARD
- INV. INVERT OF PIPE
- P.V.C. POLYVINYL CHLORIDE PIPE
- S.D.R. STANDARD DIMENSION RATIO
- R.C.P. REINFORCED CONCRETE PIPE
- CONC. CONCRETE (BIT. OR P.C.)
- BIT. BITUMINOUS
- P.C. PORTLAND CEMENT
- TYP. TYPICAL
- F.S. 100x100 FINISHED SPOT GRADE
- 100x100 EXISTING SPOT GRADE
- T.C. TOP OF CURB
- B.C. BOTTOM OF CURB
- E PROPERTY LINE
- X-CLF-X- CHAIN LINK FENCE
- ST SEPTIC TANK
- DB DISTRIBUTION BOX
- DO DEEP OBSERVATION HOLE
- DS PERCOLATION TEST HOLE
- CO ROOF GUTTER DOWNSPOUT
- CLEAN OUT
- STAKED HAY BALES

DEEP OBSERVATION HOLE "1" LOG
ORIGINAL GRADE - 76.7±

DEPTH	SOIL HORIZON	SOIL TEXTURE	SOIL COLOR	SOIL MOTTLING	OTHER
0 - 8"	FILL	GRAVEL			
8" - 20"	B4	SANDY LOAM	10 YR 5/6		MASSIVE, FRIABLE, GRAVELLY
20" - 38"	Cd1	FINE S. LOAM	2.5Y 5/4	●33" - MANT, FROM.	MASSIVE, FRIABLE, GRAVELLY
38" - 82"	Cd2	MED. S. LOAM	2.5Y 4/2		MASSIVE, FRIABLE, GRAVELLY
82"	R	BOULDERS TOO BIG FOR MACHINE			

OBSERVED STANDING GROUNDWATER - NONE
 ESTIMATED HIGH GROUNDWATER - 33" (EL. 73.45)
 PERCOLATION TEST AT 33" + 1" = 18 MINUTES/INCH
 OBSERVED WEEPING GROUNDWATER - NONE
 REMOVE TO 3" MIN. INTO C HORIZON

DEEP OBSERVATION HOLE "3" LOG
ORIGINAL GRADE - 77.8±

DEPTH	SOIL HORIZON	SOIL TEXTURE	SOIL COLOR	SOIL MOTTLING	OTHER
0 - 33"	FILL				
33" - 34"	B4	SANDY LOAM	10 YR 4/6		MASSIVE, FRIABLE, GRAVELLY
34" - 50"	Cd1	FINE S. LOAM	2.5Y 5/4	●40" - COMM. DIST.	MASSIVE, FRIABLE, GRAVELLY
50" - 43"	Cd2	MED. S. LOAM	2.5Y 4/2		MASSIVE, FRIABLE
43" - 82"	R	BOULDERS TOO BIG FOR MACHINE			GRAVELLY, COBBLE

OBSERVED STANDING GROUNDWATER - NONE
 ESTIMATED HIGH GROUNDWATER - 40" (EL. 74.5)
 OBSERVED WEEPING GROUNDWATER - NONE
 REMOVE TO 3" MIN. INTO C HORIZON

DEEP OBSERVATION HOLE "2" LOG
ORIGINAL GRADE - 77.5±

DEPTH	SOIL HORIZON	SOIL TEXTURE	SOIL COLOR	SOIL MOTTLING	OTHER
0 - 16"	FILL				
16" - 80"	C1	CRS. L. SAND	2.5Y 4/3	●48" - COMM. DIST.	MASSIVE, WEAK FRIABLE, GRAVELLY
80" - 100"	C2	COARSE SAND	2.5Y 4/1		VERY COBBLE, VERY STONY LOOSE, SINGLE GRAIN

OBSERVED STANDING GROUNDWATER - NONE
 ESTIMATED HIGH GROUNDWATER - 48" (EL. 73.5)
 OBSERVED WEEPING GROUNDWATER - NONE
 REMOVE TO 3" MIN. INTO C HORIZON

DEEP OBSERVATION HOLE "4" LOG
ORIGINAL GRADE - 77.45±

DEPTH	SOIL HORIZON	SOIL TEXTURE	SOIL COLOR	SOIL MOTTLING	OTHER
0 - 30"	FILL				
30" - 42"	B4	SANDY LOAM	10 YR 4/6		MASSIVE, FRIABLE, GRAVELLY
42" - 46"	Cd1	FINE S. LOAM	2.5Y 5/4	●48" - COMM. DIST.	MASSIVE, FRIABLE, GRAVELLY

OBSERVED STANDING GROUNDWATER - NONE
 ESTIMATED HIGH GROUNDWATER - 48" (EL. 73.45)
 PERCOLATION TEST AT 68" = 4 MINUTES/INCH
 OBSERVED WEEPING GROUNDWATER - NONE
 REMOVE TO 3" MIN. INTO C HORIZON

WITNESS: MR. CHENEVERT, SEEKONK BOARD OF HEALTH
 TESTING PERFORMED BY: CAPUTO AND WICK LTD. - SEPT. 25, 2007

I CERTIFY THAT I HAVE CONTACTED THE SEEKONK WATER DISTRICT FOR THE LOCATION OF THE EXISTING WATER SERVICE CURB STOP FOR PLAT 27, LOT 141 AND THAT IT IS SHOWN CORRECTLY. THE DIMENSION BETWEEN THE WATER SERVICE AND THE SEWAGE SYSTEM COMPONENTS COMPLIES WITH THE RULES AND REGULATIONS OF THE SEEKONK WATER DISTRICT.

SITE & SEWAGE DISPOSAL SYSTEM PLAN
 PREPARED FOR:
SHARUM ASSOCIATES, LLC
 25 TOWER ROAD
 SEEKONK, MASSACHUSETTS

CAPUTO AND WICK LTD.
 1150 PAWTUCKET AVE.
 RUMFORD, R.I. 02916
 401-434-8880

DATE: FEB. 2008
 SHEET: 2 OF 4