

DESIGN DATA

DAILY SEWAGE FLOW
 EXISTING COMMERCIAL AREA - BUILDING 1 = 3,351 SF.
 EXISTING COMMERCIAL AREA - BUILDING 2 = 1,754 SF.
 DAILY FLOW = 50 GAL./DAY/1,000 SF. x 5,100 SF. = 256 GALLONS PER DAY
 USE 400 GALLON (200 GAL./BLDG MIN)

SEPTIC TANK REQUIREMENTS
 VOLUME = 2 x DAILY FLOW = 400 GALLONS EACH BUILDING
 MINIMUM SIZE = 1500 GALLONS EACH BUILDING

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 = [(34'x2) + (12'x2)] x 1.5 FEET = 138 SQUARE FEET
 BOTTOM AREA = 34' x 12' = 408 SQUARE FEET
 TOTAL LEACHING AREA = 546 SQUARE FEET
 TOTAL LEACHING CAPACITY
 546 S.F. x 0.14 GAL/DAY/S.F. = 404 GAL/DAY > 400 GPD

POSSIBLE LOCATION OF EXISTING BUILDING SEWER AND CESSPOOL - EXCAVATE TEST HOLES PRIOR TO CONSTRUCTION TO CONNECT TO OR REPLACE BUILDING SEWER AND ELIMINATE CESSPOOL.

I CERTIFY THAT I HAVE CONTACTED THE SEEKONK WATER DISTRICT FOR THE LOCATION OF THE EXISTING WATER SERVICE CURB STOP FOR PLAT 13, LOT 35 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.

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 IN ALL DIRECTIONS, WHERE POSSIBLE. STRIP B HORIZON SOILS AND EXCAVATE 3" MINIMUM INTO C HORIZON. REPAVCE WITH GRANULAR FILL MEETING THE LATEST SPECIFICATIONS OF 310CMR15.255(3).
- ALL PIPE TO BE 4" P. V. C. SCHEDULE 40 UNLESS OTHERWISE NOTED.
- PLACE 6" MINIMUM COMPACTED CRUSHED STONE UNDER SEPTIC TANK AND DISTRIBUTION BOX.
- SOIL TESTING PERFORMED BY RICHARD BELLAVANCE, R.S. IF CONDITIONS ENCOUNTERED DURING CONSTRUCTION VARY SUBSTANTIALLY FROM THOSE SHOWN ON THIS PLAN, NOTIFY CAPUTO AND WICK, LTD. HEALTH AGENT AND MR. BELLAVANCE BEFORE PROCEEDING WITH CONSTRUCTION.
- GARBAGE GRINDER IS NOT ALLOWED WITH THIS DESIGN.
- 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 = 45.00. NO FINISHED GRADE BELOW 45.00 FOR 15 FEET (MINIMUM) FROM THE EDGE OF THE LEACHING AREA.
- 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.
- 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.
- EXISTING CESSPOOL IS TO BE PUMPED OUT, RINSED WITH CLEAN WATER AND PUMPED OUT AGAIN. PUMPING MUST BE PERFORMED BY A STATE LICENSED SEPTIC HAULER AND THE CONTENTS OF THE TANK DISPOSED OF PROPERLY. AFTER PUMPING, REMOVE TOP TWO FEET OF THE STRUCTURE AND FILL TO GRADE WITH CLEAN, GRANULAR MATERIAL.

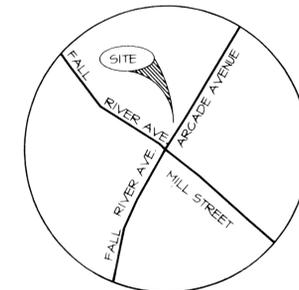
**DEEP OBSERVATION HOLE "1" LOG
 ORIGINAL GRADE - 46.66**

DEPTH	SOIL HORIZON	SOIL TEXTURE	SOIL COLOR	SOIL MOTTLING	OTHER
0 - 12"	A	SANDY LOAM	10 YR 3/3		
12" - 24"	B	LOAMY SAND	10 YR 5/6		
24" - 46"	C	MED.-GRS. SAND	2.5Y 5/6		
46"	R	REFUSAL			

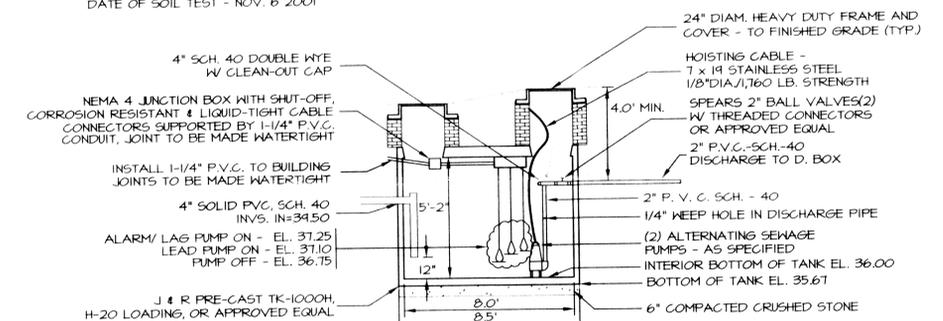
OBSERVED STANDING GROUNDWATER - NONE
 ESTIMATED HIGH GROUNDWATER - 46" (EL. = 38.66)
 REMOVE TO 3" INTO C HORIZON

OBSERVED KEEPING GROUNDWATER - NONE
 PERCOLATION TEST AT 42" = <2 MINUTES/INCH (UNABLE TO SATURATE)

WITNESS: MR. CHENEVERT, SEEKONK BOARD OF HEALTH
 TESTING PERFORMED BY: RICHARD BELLAVANCE, R.S.
 DATE OF SOIL TEST - NOV. 6 2001



LOCUS PLAN
 NOT TO SCALE



PUMP CHAMBER DETAIL
 SCALE 1" = 4"

PUMPING SYSTEM SPECIFICATIONS

PUMP MODELS - 2 REQUIRED WITH ALTERNATOR
 MYERS 585MM HORSEPOWER-4/0 SOLIDS HANDLING CAPACITY - 2 INCH
 DISCHARGE, 2" ELECTRICAL - 115 VOLTS, 12 AMPS, 1 PHASE, 60 HZ
 CONTROL PANEL MODEL
 MYERS CE-110; ENCLOSURE - NEMA 1, PHASE - 1, VOLTAGE - 115
 HIGH LEVEL ALARM - VISUAL AND AUDIO
 FLOATS MODEL
 MYERS MFS (CORD LENGTH AS REQUIRED)
 PUMP CHAMBER
 J & R PRE-CAST TK-1000H

PUMPING NOTES

- EQUIPMENT FROM OTHER MANUFACTURER'S MAY BE USED IF EQUAL. APPROVAL FOR ALTERNATE EQUIPMENT REQUIRED FROM ENGINEER PRIOR TO CONSTRUCTION. FULL SPECIFICATIONS FOR ALTERNATE EQUIPMENT MUST BE PROVIDED BY CONTRACTOR.
- CONTROL PANEL AND ALARM TO BE MOUNTED INSIDE BUILDING IN A CONSPICUOUS LOCATION
- JUNCTION BOX IN PUMP CHAMBER TO HAVE SHUT-OFF SWITCH.

DOSING CALCULATIONS

ESTIMATED DAILY VOLUME = 400 GALLONS
 NUMBER OF DOSES PER DAY = FOUR (CLASS 1 SOIL) - VOLUME PER DOSE = 400/4 = 100 GALLONS
 ACTUAL VOLUME OF DOSE = [8'x4.5'x(31.0-36.15)] = 126± C.F. = 44± GALLONS ~ 100 GALL.
 EMERGENCY STORAGE VOLUME = [8'x4.5'x(34.50-31.10)] = 86.4± C.F. = 646± GALLONS ~ 400 GALL.

LEGEND

- 100- EXISTING CONTOUR
- 1000 PROPOSED CONTOUR
- 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.G. 100x00 FINISHED SPOT GRADE
- 100x00 EXISTING SPOT GRADE
- FF. FINISHED FLOOR
- T.C. TOP OF CURB
- B.C. BOTTOM OF CURB
- P.L. PROPERTY LINE
- x-CLF-x- CHAIN LINK FENCE
- ST. SEPTIC TANK
- DB. DISTRIBUTION BOX
- DOH DEEP OBSERVATION HOLE
- STAKED HAY BALES

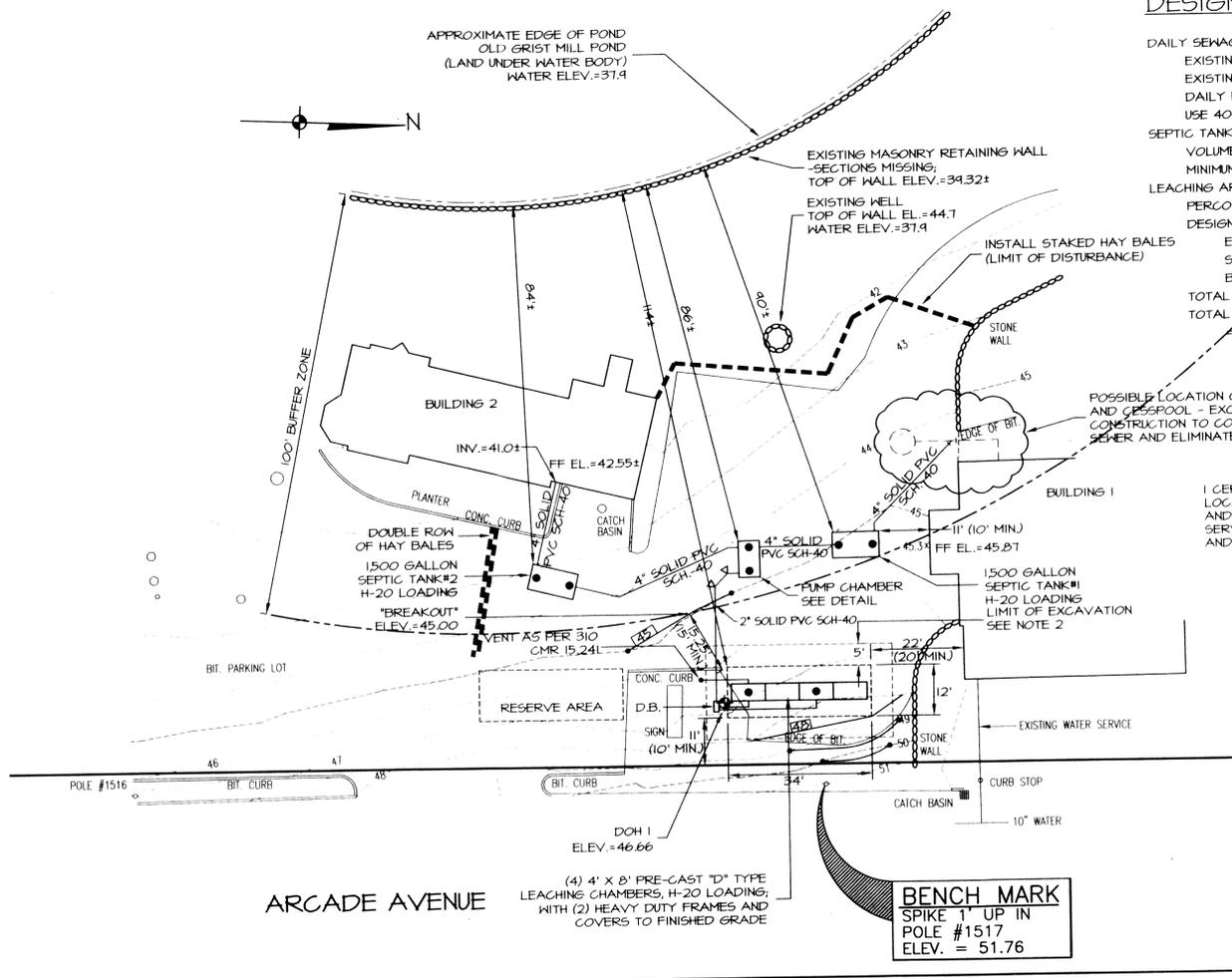
PREPARED FOR:
MONTEREY CORPORATION
 P.O. BOX 129
 SEEKONK, MA. 02711

Received
 JAN 27 2002
 Con. Comm.

REPAIR

SEWAGE DISPOSAL SYSTEM
 PLAT 13, LOT 35
 879 ARCADE AVENUE
 SEEKONK, MASSACHUSETTS

CAPUTO AND WICK LTD. DATE: JAN. 2002
 SHEET: 1 OF 1
 1150 PAWTUCKET AVE.
 RUMFORD, R.I. 02916
 401-434-8880



ARCAD AVENUE

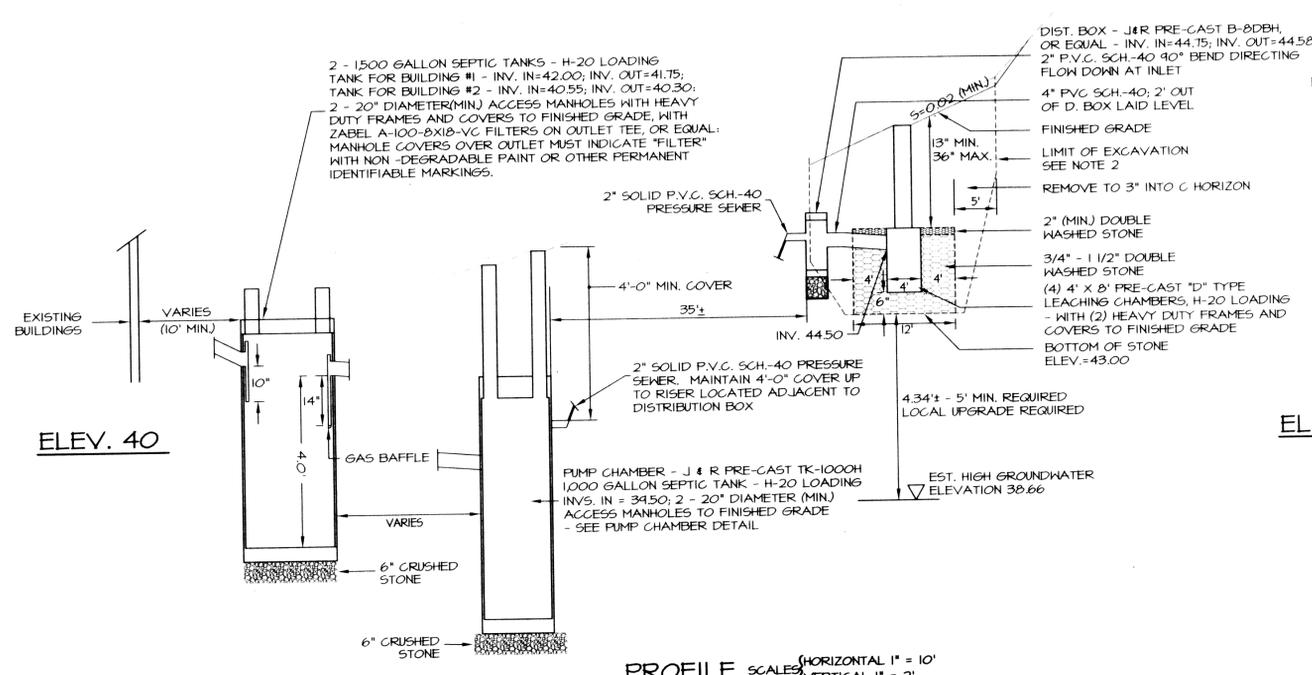
(4) 4' x 8' PRE-CAST "D" TYPE
 LEACHING CHAMBERS, H-20 LOADING,
 WITH (2) HEAVY DUTY FRAMES AND
 COVERS TO FINISHED GRADE

BENCH MARK
 SPIKE 1" UP IN
 POLE #1517
 ELEV. = 51.76

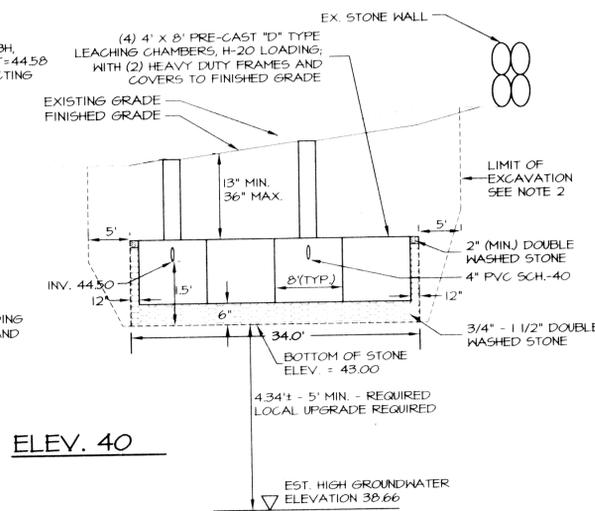
LOCAL UPGRADE REQUIRED:

310 CMR 15.212 - DEPTH TO GROUNDWATER
 5' REQUIRED FOR CLASS 1 SOILS - 4.34' PROVIDED

PLAN
 SCALE 1" = 20"



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



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