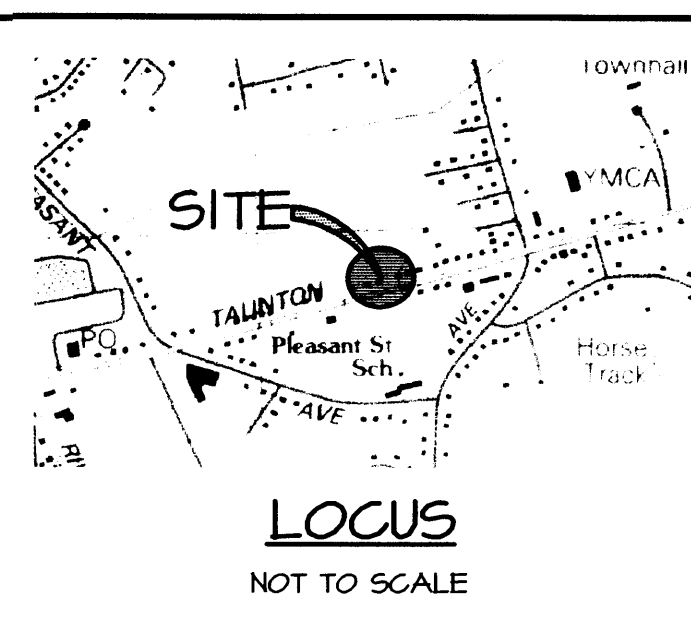


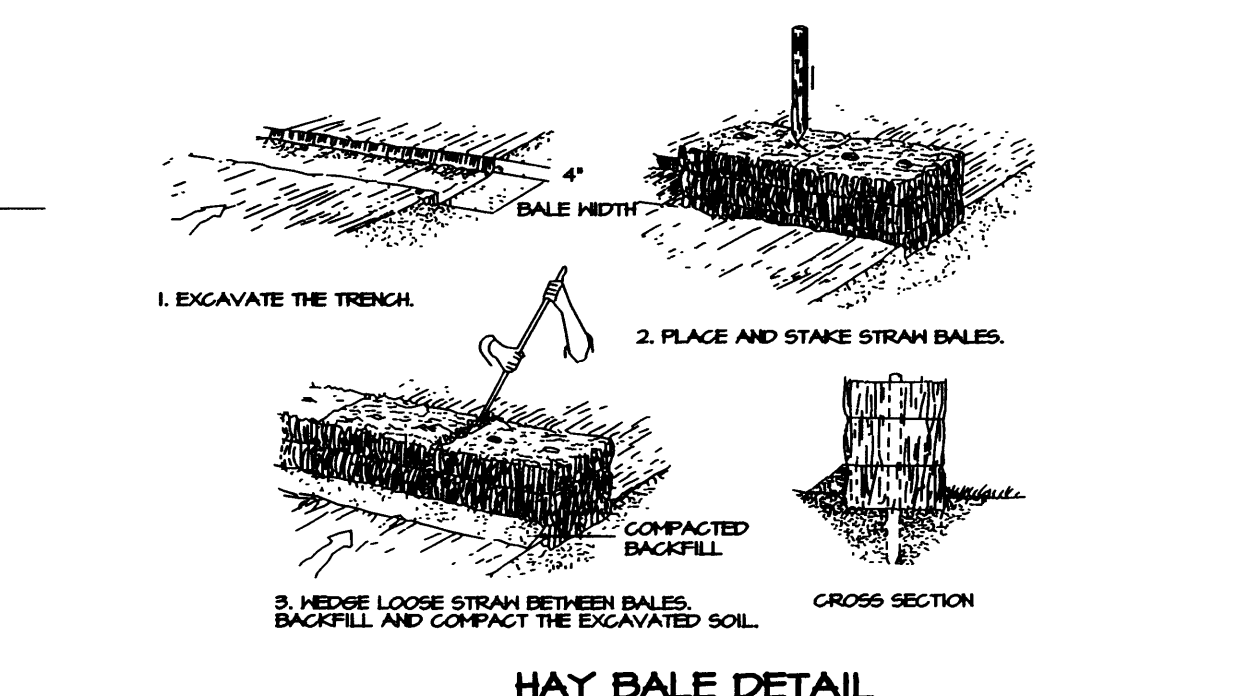
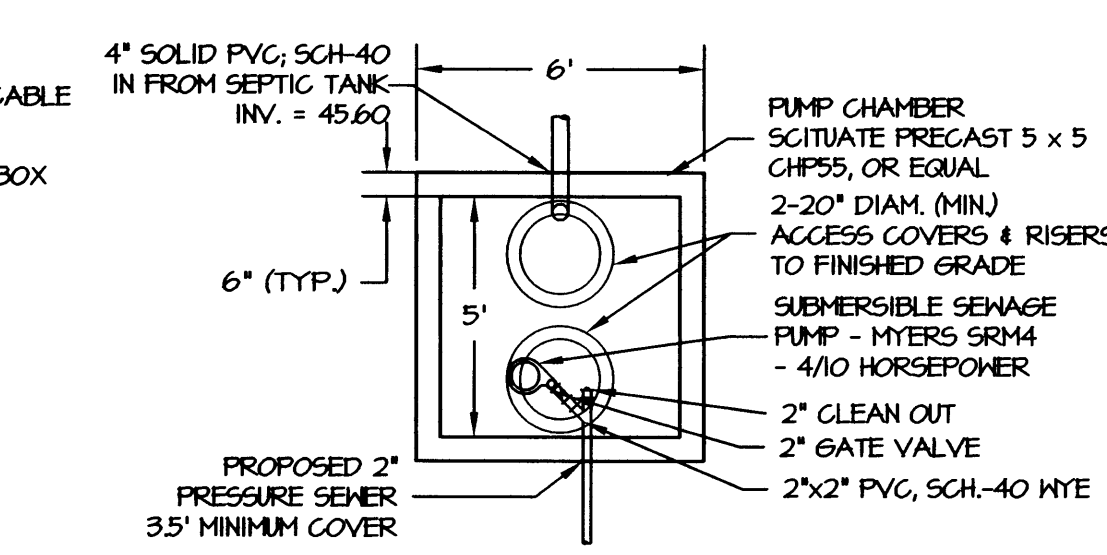
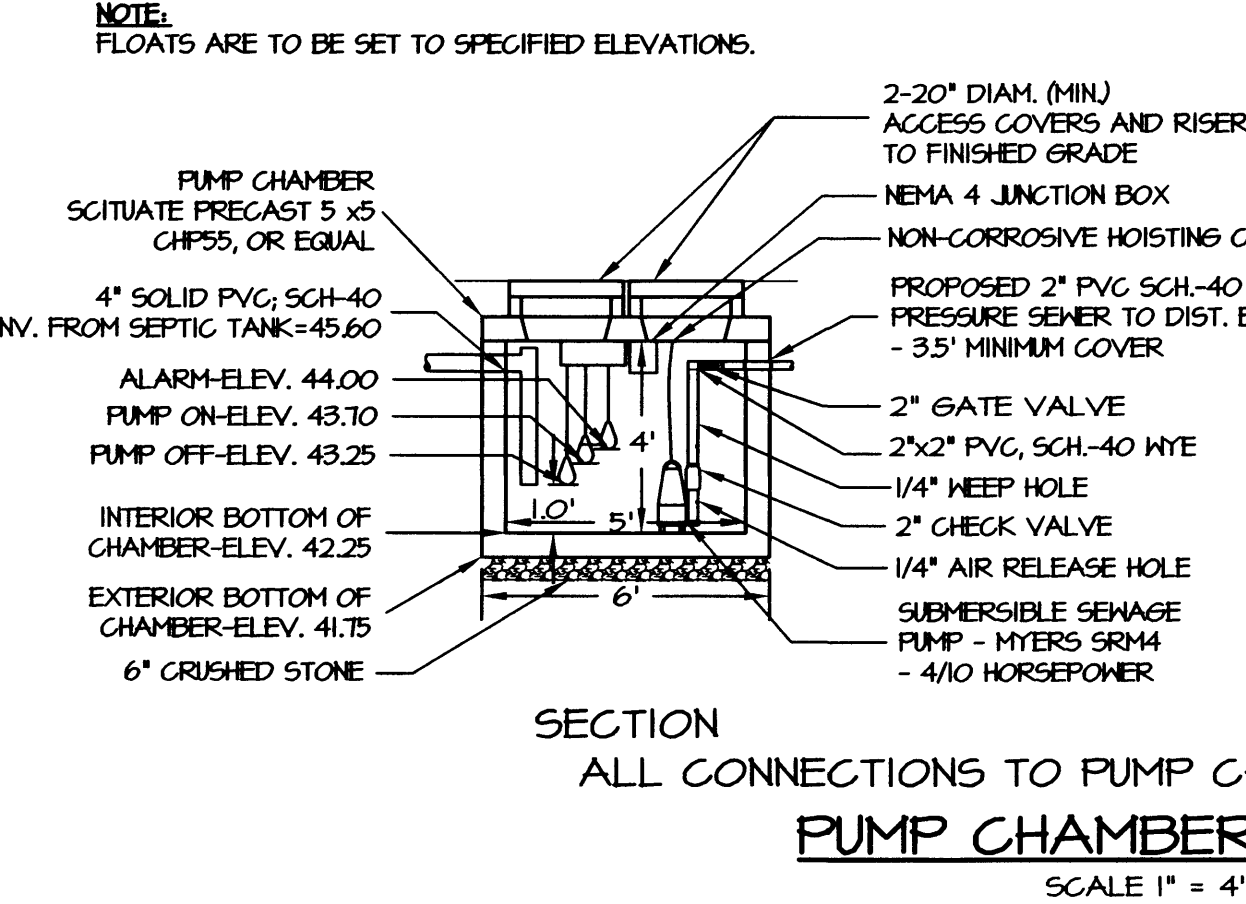
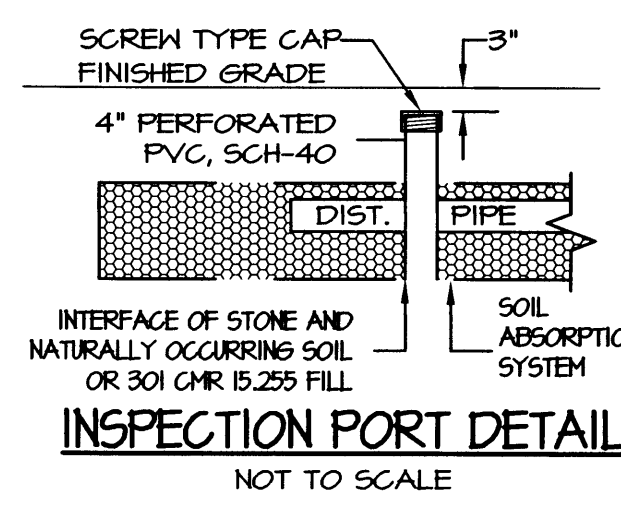
DEEP OBSERVATION HOLE "1" ORIGINAL GRADE - 44.10						DEEP OBSERVATION HOLE "3" ORIGINAL GRADE - 47.26					
DEPTH	SOIL HORIZON	SOIL TEXTURE	SOIL COLOR	SOIL MOTTLING	OTHER	DEPTH	SOIL HORIZON	SOIL TEXTURE	SOIL COLOR	SOIL MOTTLING	OTHER
0 - 40"	FILL	PREDOMINATELY SANDY LOAM	10 YR 3/2	-	-	0 - 5"	Ap	SANDY LOAM	10 YR 3/2	-	MASSIVE FRIABLE
40" - 75"	Bh	LOAMY SAND	10 YR 4/6	-	53" MANT. FROM	5" - 20"	Bh	LOAMY SAND	10 YR 4/6	-	LOOSE SINGLE GRAIN
75" - 100"	C1	MEDIUM SAND	10 YR 5/6	-	LOOSE, SINGLE GRAIN	20" - 31"	C1	MEDIUM-GRS. SAND	10 YR 5/6	-	LOOSE, SINGLE GRAIN
	C2	MEDIUM SAND	2.5Y 5/5	-		31" - 18"	C2	MEDIUM SAND	10 YR 5/6	-	LOOSE, SINGLE GRAIN
OBSERVED STANDING GROUNDWATER - 75" ESTIMATED HIGH GROUNDWATER - 55" (ELEV.=44.36) PERC. @ 4" x 20" - 2 MPH (SAMPLE TO SATURATE)						OBSERVED STANDING GROUNDWATER - 40" ESTIMATED HIGH GROUNDWATER - 25" (ELEV.=44.34) PERC. @ 2" x 18" - 1.5 MPS INCHES - USE 2 MPH					
DEEP OBSERVATION HOLE "2" ORIGINAL GRADE - 47.75						DEEP OBSERVATION HOLE "4" ORIGINAL GRADE - 46.02					
0 - 10"	Ap	SANDY LOAM	10 YR 3/2	-	MASSIVE FRIABLE	0 - 20"	FILL	PREDOMINATELY SANDY LOAM	10 YR 3/2	-	LOOSE SINGLE GRAIN
10 - 22"	Bh	LOAMY SAND	10 YR 4/6	-	LOOSE SINGLE GRAIN	20 - 31"	C1	MEDIUM-GRS. SAND	15 YR 2.5/5	-	LOOSE SINGLE GRAIN
22 - 48"	C1	MEDIUM SAND	10 YR 5/6	-	42" MANT. FROM	31" - 18"	C2	MEDIUM SAND	15 YR 5/6	-	LOOSE SINGLE GRAIN
48 - 100"	C2	MEDIUM SAND	2.5Y 5/5	-	LOOSE, SINGLE GRAIN						
OBSERVED STANDING GROUNDWATER - 51" ESTIMATED HIGH GROUNDWATER - 42" (ELEV.=44.25) REMOVE TO 3" INTO G1 HORIZON						OBSERVED STANDING GROUNDWATER - 33" ESTIMATED HIGH GROUNDWATER - 20" (ELEV.=44.35) REMOVE TO 3" INTO G1 HORIZON					



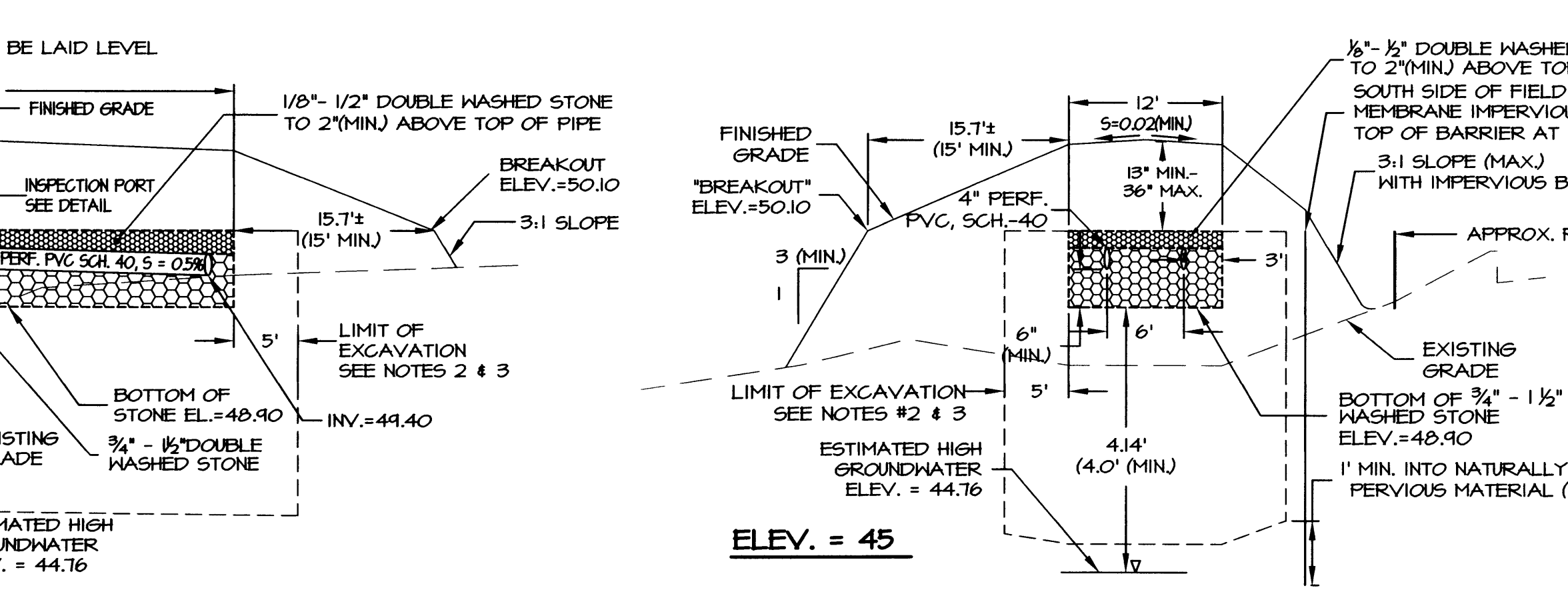
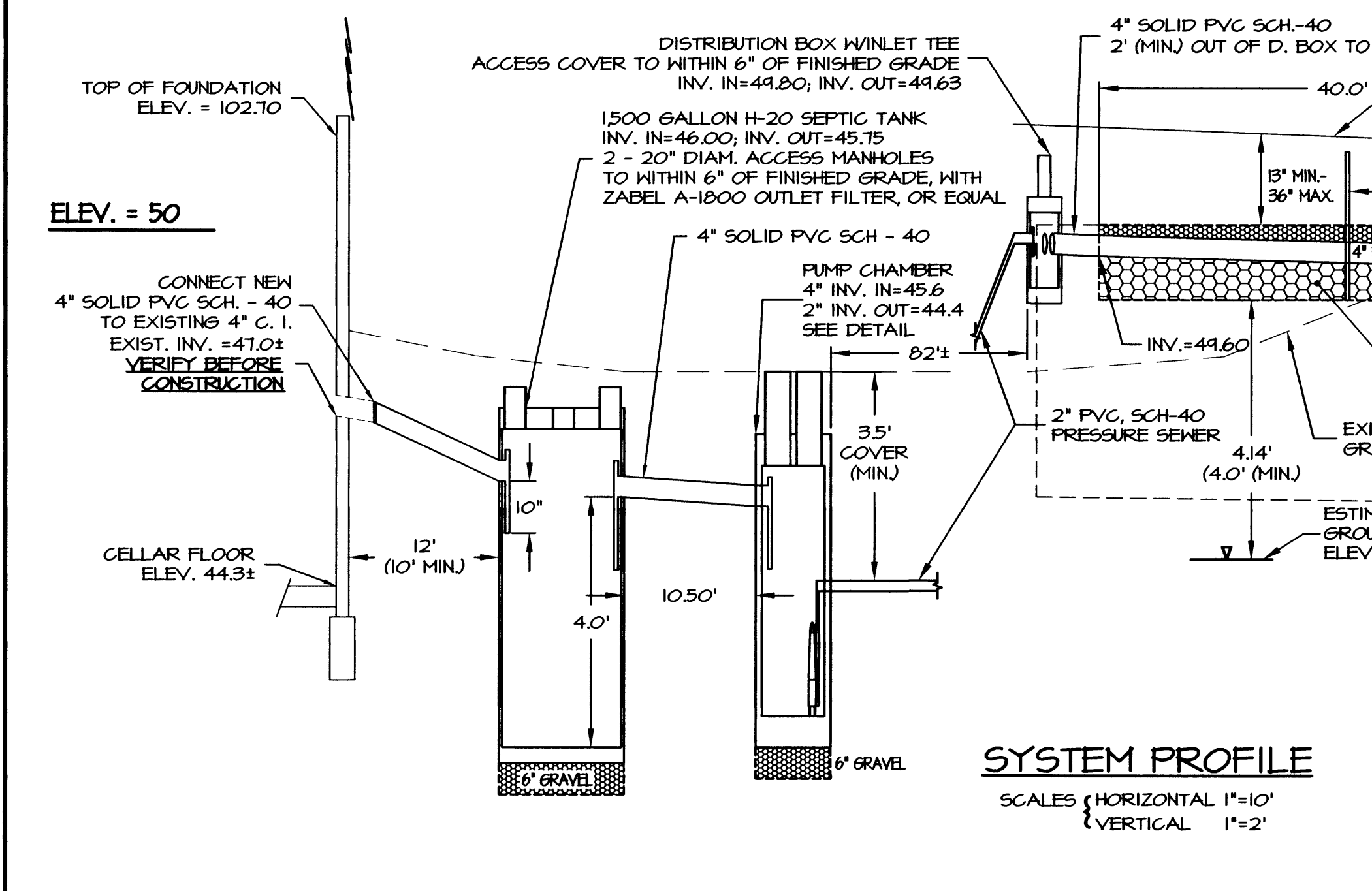
- NOTES:**
- ALL WORK SHALL CONFORM TO THE 310 CHR 15.00 STATE ENVIRONMENTAL CODE - TITLE 5, THE RULES AND REGULATIONS OF THE SEEKONK BOARD OF HEALTH AND THE LOCAL UPGRADES APPROVED FOR THIS DESIGN.
 - STRIP ALL TOPSOIL, SUBSOIL AND UNSUITABLE MATERIAL, TREE ROOTS AND STUMPS AND ANY OTHER IMPERVIOUS OR SPECIFIED SOIL IN THE AREA OF THE SYSTEM AND 5 FEET BEYOND THE EDGE OF LEACHING BED HORIZONTALLY IN ALL DIRECTIONS, WHERE POSSIBLE. AT A MINIMUM THE INSTALLER IS TO STRIP MATERIAL 3" VERTICALLY INTO THE NATURALLY OCCURRING PERVIOUS MATERIAL. REPLACE WITH GRANULAR FILL MEETING THE LATEST SPECIFICATIONS OF 310 CHR 15.255 FILL TO THE LIMITS INDICATED.
 - THE CONTRACTOR IS TO REMOVE ALL UNSUITABLE MATERIAL BELOW THE PROPOSED SOIL ABSORPTION SYSTEM PRIOR TO INSTALLATION. SEE DEEP OBSERVATION HOLES SOIL DATA FOR FURTHER INFORMATION. VERTICAL LIMITS MAY BE VARIABLE.
 - CONTRACTOR SHALL CONTACT TAUNTON WATER DISTRICT PRIOR TO CONSTRUCTION. LOCATION OF UTILITIES ON THIS PLAN ARE FROM EXISTING INFORMATION BUT ARE ONLY TO BE CONSIDERED APPROXIMATE.
 - ALL PIPE TO BE 4" P. V. C. SCHEDULE 40, UNLESS OTHERWISE NOTED. ALL CONNECTIONS SHALL BE WATERTIGHT.
 - PLACE 6" MINIMUM COMPACTED CRUSHED STONE UNDER SEPTIC TANK, PUMP CHAMBER AND DISTRIBUTION BOX.
 - SOIL TESTING FOR THIS PROJECT HAS BEEN PERFORMED BY CAPUTO AND WICK LTD. AND WITNESSED BY THE SEEKONK BOARD OF HEALTH AGENT BETH HALLALL. 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.
 - BREAKOUT ELEVATION = 50.10. NO FINISHED GRADE BELOW 50.10 FOR 15 FEET (MINIMUM) FROM THE EDGE OF THE SYSTEM. A IMPERVIOUS BARRIER IS INSTALLED 5' (MIN) FROM THE EDGE OF THE STONE. SEE SYSTEM PLAN, PROFILE AND CROSS SECTION WHICH DEPICTS THE LIMITS OF THE 40 MIL IMPERVIOUS BARRIER.
 - IT IS RECOMMENDED THAT THE SEPTIC TANK BE INSPECTED TWICE A YEAR, AND BE CLEANED WHEN THE SOLIDS EQUAL ONE THIRD THE LIQUID DEPTH.
 - 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 THE 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 CHR 15.00 AND LOCAL BOARD OF HEALTH REGULATIONS INCLUDING APPROVED LOCAL UPGRADES AND THE RESPONSIBILITY OF THE OWNER FOR PROPERLY MAINTAINING THE SYSTEM IN ACCORDANCE WITH 310 CHR 15.00 AND THE LOCAL BOARD OF HEALTH REGULATIONS. REFER TO 310 CHR 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 CHR 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 CHR 15.255(3) MUST BE PLACED ON SCARIFIED RELATIVELY DRY NATURAL POLYGENS NOT PRESENT WITHIN PROPERTY LIMITS, AS MAPPED IN THE MASSACHUSETTS NATURAL HERITAGE ATLAS, 12TH EDITION.
 - WORK SHALL BE PERFORMED UNDER DRY CONDITIONS PER 310 CHR 15.255(6). THE DISCHARGE WATER MUST BE PROPERLY DISPOSED OF AND SHALL NOT BE A SOURCE OF POLLUTION AND/OR EROSION.
 - INSTALL MAGNETIC TAPE OVER ALL PIPE AND SYSTEM COMPONENTS.
 - ALL DISTURBED AREAS NOT DEPICTED TO HAVE OTHER FINAL SURFACE TREATMENT SHALL RECEIVE 4" LOAM AND SEED.
 - EXISTING GRASS/POOL IS TO BE PUMPED OUT, POWER WASHED AND RINSED AGAIN. AFTER THOROUGH CLEANING THE TOP OF THE STRUCTURE IS TO BE REMOVED AND THEN FILLED WITH CLEAN SOIL. THE STRUCTURE MAY BE REMOVED AFTER CLEANING IF DESIRED.
 - THE CONTRACTOR SHALL VERIFY INVERT ELEVATIONS OF EXISTING BUILDING SEWER AND SHALL PROVIDE MINIMUM 2% SLOPE TO NEW SEPTIC TANK. TANK AND PUMP CHAMBER MAY BE LOWERED AS NECESSARY WITH APPROVAL OF ENGINEER AND HEALTH AGENT.
 - THE PUMP CHAMBER DOSING CONTROLS WILL BE FIELD TESTED IN THE PRESENCE OF THE DESIGN ENGINEER AND BOARD OF HEALTH AGENT. ADJUSTMENT TO CONTROLS ARE THE CONTRACTORS RESPONSIBILITY. CONTRACTOR MUST MAKE WATER AVAILABLE FOR TESTING OF THE CONTROL FLOATS.
 - ALL CONNECTIONS TO SEPTIC TANK AND PUMP CHAMBER TO BE WATERTIGHT.
 - MASSACHUSETTS NATURAL HERITAGE AND ENDANGERED SPECIES PROGRAM PRIORITY AND ESTIMATED HABITAT POLYGENS NOT PRESENT WITHIN PROPERTY LIMITS, AS MAPPED IN THE MASSACHUSETTS NATURAL HERITAGE ATLAS, 12TH EDITION.
 - THIS PROPOSED SYSTEM DOES NOT LIE WITHIN A 100 YEAR FLOOD HAZARD ZONE AS SHOWN ON THE FLOOD INSURANCE RATE MAP OF BRISTOL COUNTY, MASSACHUSETTS ON MAP NUMBER 25005C0204F, DATED JULY 7, 2004. FLOOD ELEVATION ON THIS PARCEL IS ELEVATION 46.
 - WETLANDS DELINEATED BY CAPUTO AND WICK LTD.

- PUMPING NOTES:**
- EQUIPMENT FROM OTHER MANUFACTURERS 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.
 - THE PUMP CHAMBER DOSING CONTROLS WILL BE FIELD TESTED IN THE PRESENCE OF THE DESIGN ENGINEER AND BOARD OF HEALTH AGENT. ADJUSTMENT TO CONTROLS ARE THE CONTRACTORS RESPONSIBILITY. CONTRACTOR MUST MAKE WATER AVAILABLE FOR TESTING OF THE CONTROL FLOATS.

- PUMPING SYSTEM SPECIFICATIONS:**
- PUMP MODEL**
MYERS SRM4 - HORSEPOWER - 4/10
SOLIDS HANDLING CAPACITY - 2 INCH
DISCHARGE - 2" NPT
ELECTRICAL - 115 VOLTS, 12 AMPS
- CONTROL PANEL MODEL**
MYERS CE15H - ENCLOSURE - NEMA 1
VOLTAGE - 115
HIGH LEVEL ALARM - VISUAL AND AUDIO
- FLOATS MODEL**
MYERS MODEL MFS2
- PUMP CHAMBER**
SCITUATE PRECAST 5X5 CHFS5, OR EQUAL



- EROSION & SEDIMENTATION CONTROL**
- ALL PERIMETER EROSION AND SEDIMENTATION CONTROLS MUST BE INSTALLED PRIOR TO THE COMMENCEMENT OF EARTHWORK.
 - 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.
 - HAY BALES SHOULD BE INSTALLED IN ACCORDANCE WITH THE DETAILS PROVIDED.
 - NO WORK IS TO OCCUR ON THE WETLAND SIDE OF THE PERIMETER EROSION AND SEDIMENTATION CONTROL. ALL PERIMETER CONTROLS SERVE AS THE PROJECT LIMIT OF DISTURBANCE.
 - NO STONES, BRUSH, CONSTRUCTION DEBRIS, LITTER, OR OTHER MATERIALS ARE TO BE DEPOSITED ON THE WETLAND SIDE OF THE EROSION AND SEDIMENTATION CONTROLS.
 - ALL DISTURBED SOILS NOT DESIGNATED FOR OTHER SURFACE TREATMENT ARE TO BE LOAMED AND SEEDED IMMEDIATELY FOLLOWING FINAL GRADING.
 - APPROPRIATE PRECAUTIONS SHOULD BE TAKEN TO PREVENT THE TRANSPORT OF SOIL OFFSITE FROM CONSTRUCTION EQUIPMENT.
 - ALL PERIMETER EROSION AND SEDIMENTATION CONTROLS MUST BE PROPERLY MAINTAINED AND REMAIN IN PLACE UNTIL THE SOILS HAVE BEEN STABILIZED TO THE SATISFACTION OF THE ENGINEER AND THE SEEKONK CONSERVATION COMMISSION.



DESIGN DATA:

DAILY SEWAGE FLOW
EXISTING SINGLE FAMILY DWELLING
DAILY FLOW = 330 GALLONS PER DAY (MINIMUM PER 310 CHR 15.146)

SEPTIC TANK REQUIREMENTS
VOLUME = 2 x DAILY FLOW = 660 GALLONS
MINIMUM SIZE = 1500 GALLONS

LOADING:
PERCOLATION TEST - 2 MPH
EFFLUENT LOADING RATE - CLASS I SOIL - 0.74 GAL./SF./DAY
MINIMUM LEACHING AREA REQUIRED - 330 GPD/0.74 GAL./SF./DAY = 446 SQ. FT.
SIDEWALL AREA - 0 (LEACHING FIELD)
BOTTOM AREA - 12' x 40' = 480 S. F.
TOTAL LEACHING AREA = 480 SQUARE FEET
TOTAL LEACHING CAPACITY = 480 S. F. x 0.74 GAL./DAY/SF. = 355 GAL./DAY > 330 GPD

LOT INFORMATION

OWNER EDWARD G. MEDEIROS
ASSESSOR'S PLAT 19
LOTS 500 - 503 & 513 - 516
LOT AREA 38,735± S.F.

LOCAL UPGRADE APPROVALS REQUIRED:
310 CHR 15.405(1)(b) - REDUCTION OF THE FIVE FOOT MINIMUM VERTICAL SEPARATION TO GROUNDWATER WHERE THE PERCOLATION RATE IS 2 MPH OR LESS (310 CHR 15.212)(b). MINIMUM FOUR FOOT SEPARATION PROVIDED (1' REDUCTION).

LEGEND

- 100' - EXISTING CONTOUR
- 100' - 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 F. C.)
- BIT. - BITUMINOUS
- P. C. - PORTLAND CEMENT
- TYP. - TYPICAL
- F.S. 100X100 - FINISHED SPOT GRADE
- 100X00 - EXISTING SPOT GRADE
- T. C. - TOP OF CURB
- B. G. - BOTTOM OF CURB
- P. - PROPERTY LINE
- x-CLF-x- - CHAIN LINK FENCE
- ST - SEPTIC TANK
- DB - DISTRIBUTION BOX
- DOH - DEEP OBSERVATION HOLE

SEWAGE DISPOSAL SYSTEM REPAIR

PREPARED FOR
EDWARD G. MEDEIROS
350 TAUNTON AVENUE
SEEKONK, MASSACHUSETTS

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

DATE OCTOBER 2013
SHEET
1 OF 1