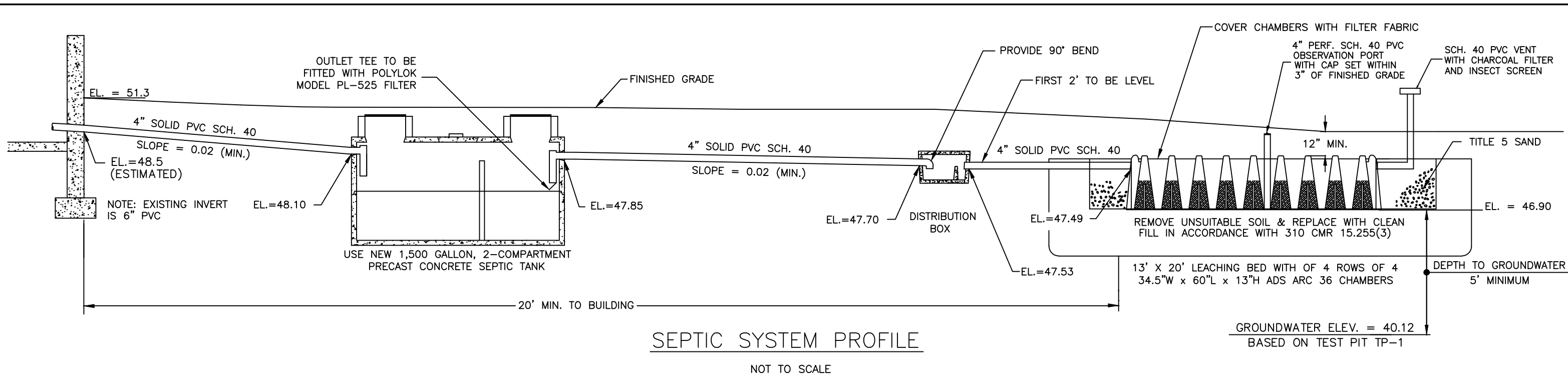
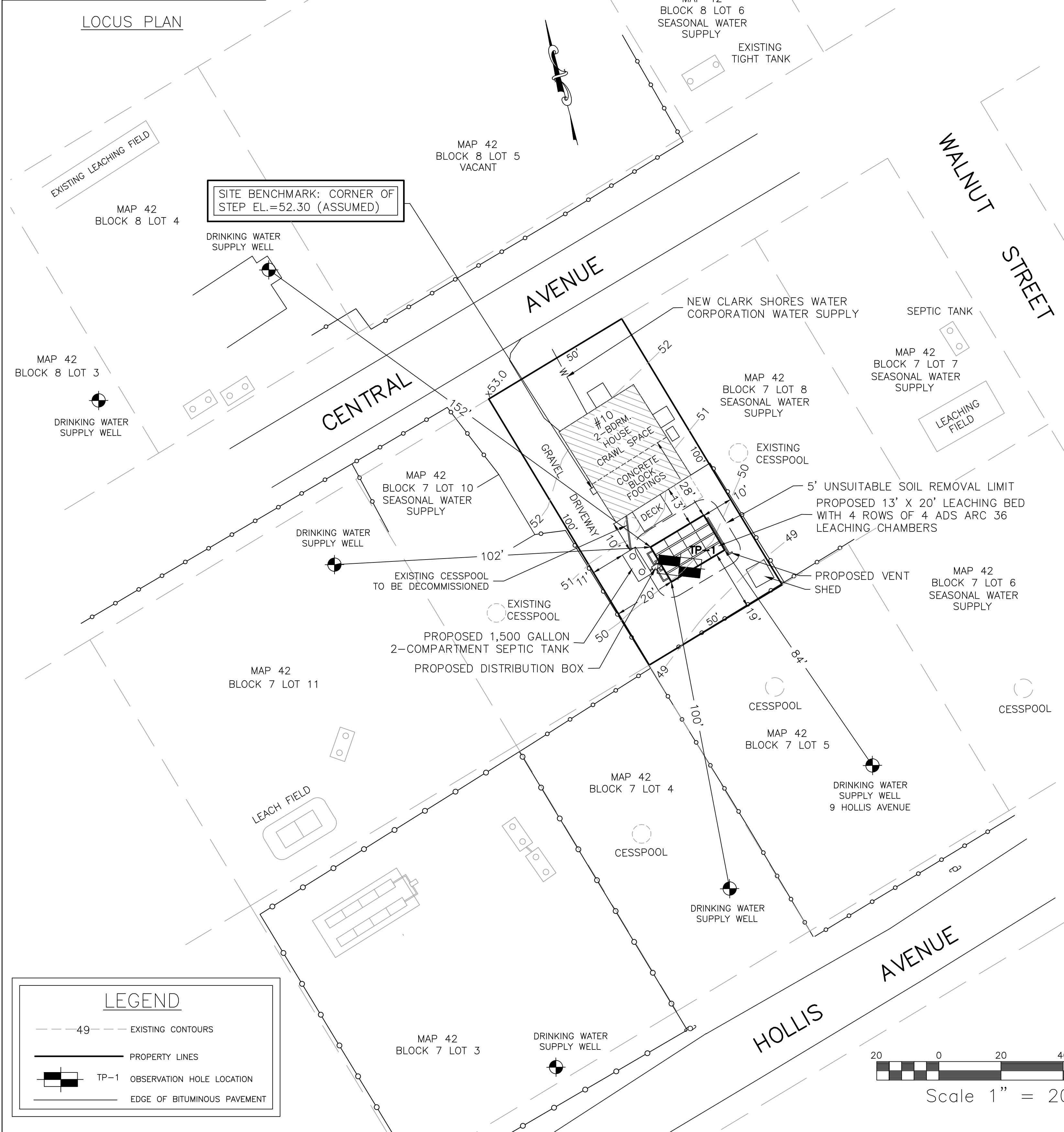




LOCUS PLAN

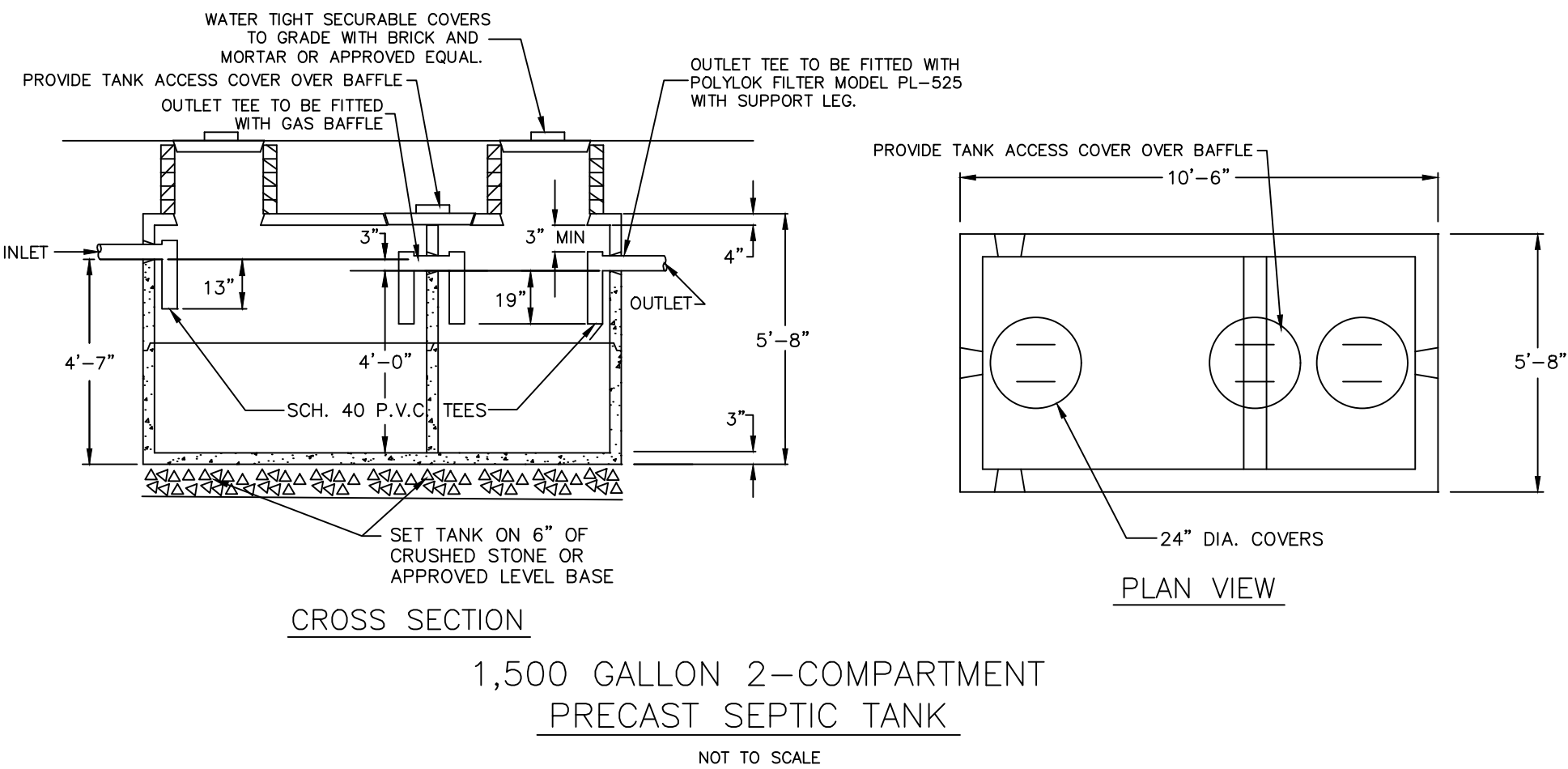
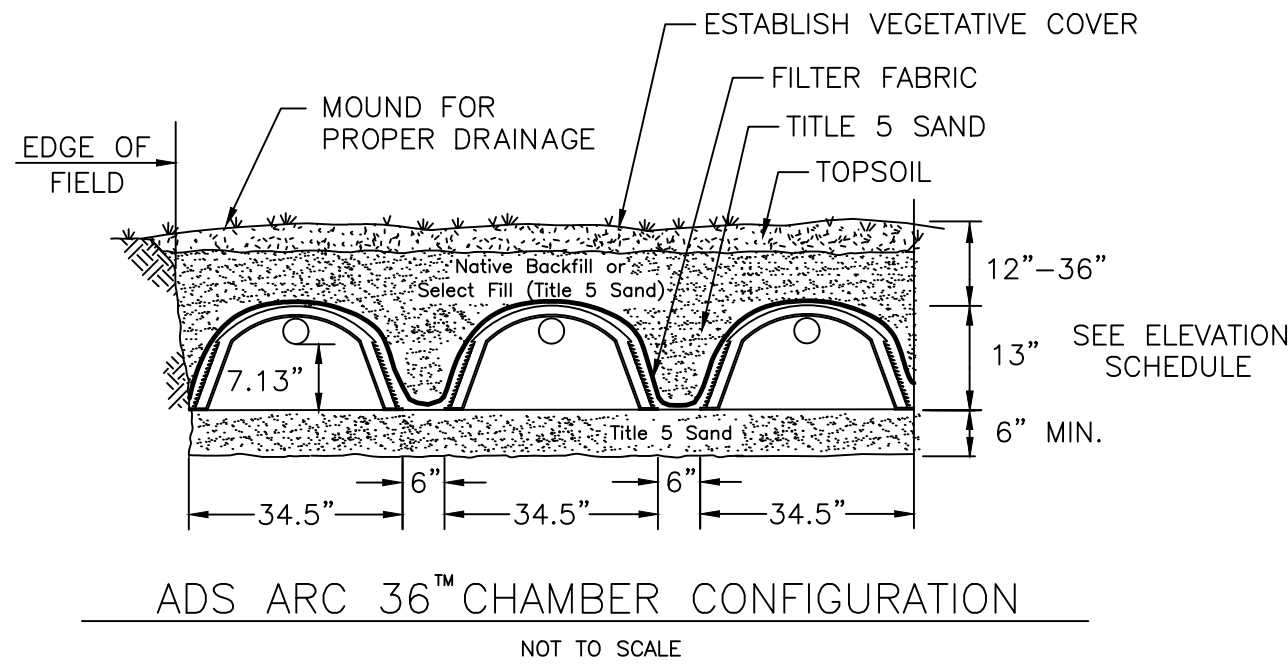


SEPTIC SYSTEM PROFILE

NOT TO SCALE

ELEVATION SCHEDULE:

DESCRIPTION	ELEVATION
4" INV. AT HOUSE (ESTIMATED)	48.5
4" INV. AT SEPTIC TANK (IN)	48.10
4" INV. AT SEPTIC TANK (OUT)	47.85
4" INV. AT DIST. BOX (IN)	47.70
4" INV. AT DIST. BOX (OUT)	47.53
4" INV. INTO SAS	47.49
ELEVATION AT BOTTOM OF SAS	46.90
GROUNDWATER ELEVATION	40.12



DESIGN DATA:

DESIGN FLOW:
2 BEDROOMS x 110 GPD/BEDROOM = 220 GPD

SEPTIC TANK:
220 GPD x 2.0 = 440 GALLONS
USE NEW 2-COMPARTMENT, 1,500 GALLON SEPTIC TANK WITH 1,000 GALLON PRIMARY COMPARTMENT AND 500 GALLON SECONDARY COMPARTMENT.

SOIL ABSORPTION SYSTEM:
PERCOLATION RATE = 10 MIN./INCH (CLASS II SOIL)
DESIGN LOADING RATE = 0.60 GPD/SF
LEACHING AREA REQ'D = $\frac{(220 \text{ GPD})}{0.60 \text{ GPD/SF}} = 367 \text{ SF}$

USE: 13' X 20' LEACHING BED WITH 4 ROWS OF 4 ADS ARC 36 LEACHING CHAMBERS (80 L.F.)
ADS CHAMBER LEACHING AREA = 4.8 S.F./L.F.
LEACHING AREA PROVIDED: 80 L.F. X 4.8 S.F./L.F. = 384 SF > 367 REQUIRED
DAILY FLOW CAPACITY: 384 SF X 0.60 GPD/SF = 230 GPD > 220 GPD REQ'D

SOIL DATA:

DATE: SEPTEMBER 25, 2002			
PERFORMED BY: GEORGE R. COLLINS, P.E.			
WITNESSED BY: MANNY MELLO, LAKEVILLE BOH			
SOIL HORIZ.	SOIL COLOR	TP-1	DEPTH
FILL		FILL	ELEV. 50.12
A	10YR 5/2	SANDY LOAM	8"
B _w	10YR 5/4	SANDY LOAM	12"
C ₁	2.5Y 6/2	SILT LOAM	40"
		PERC HOLE	60"
C ₂	2.5Y 4/2	SANDY LOAM	72" BOTTOM OF PERC HOLE
			120" 40.12

ESTIMATED SEASONAL HIGH GROUNDWATER ELEV. = 40.12
DESIGN PERC RATE = 1" IN 10 MIN.

NOTE: LAYERS FILL, A, B, C1 AND C2 TO BE REMOVED TO A DEPTH OF 66" BELOW GRADE AND REPLACED WITH CLEAN FILL IN ACCORDANCE WITH 310 CMR 15.255(3). UNSUITABLE SOIL TO BE REMOVED TO A DISTANCE OF 5'-0" BEYOND THE LIMITS OF THE SOIL ABSORPTION SYSTEM.

LOCAL UPGRADE APPROVAL REQUEST

- VARIANCE FROM SECTION 310 CMR 15.211 OF THE STATE SANITARY CODE WHICH REQUIRES A MINIMUM 100' SETBACK FROM PRIVATE DRINKING WATER SUPPLIES TO THE SAS. A VARIANCE ALLOWING A REDUCTION FROM 100' TO 84' IS REQUESTED.
- VARIANCE FROM SECTION 310 CMR 15.102 OF THE STATE SANITARY CODE WHICH REQUIRES A MINIMUM OF TWO (2) DEEP OBSERVATION HOLES PER DISPOSAL AREA. A VARIANCE ALLOWING ONE DEEP OBSERVATION HOLE IS REQUESTED.

VARIANCE AND LOCAL UPGRADE APPROVAL NOTES:

- APPLICABLE ABUTTERS TO BE NOTIFIED VIA CERTIFIED MAIL AS TO TIME, LOCATION AND PURPOSE OF BOARD OF HEALTH HEARING.



						DRAWING TITLE	PLAN AND DETAILS		SCALE:		
							SUBSURFACE SEWAGE DISPOSAL SYSTEM UPGRADE	AS SHOWN			
						PROJECT	10 CENTRAL AVENUE, LAKEVILLE ASSESSOR MAP 42, BLOCK 7, LOT 9	DATE:	11-30-11		
						CLIENT	JOHN FERRELL	DRAWN BY:	SWR		
							1248 FISH ROAD, TIVERTON, RI 02878	DESIGNED BY:	SWR		
						COLLINS CIVIL ENGINEERING GROUP, INC.		CHECKED BY:	GRC		DRAWING NO.
						BRAINTREE - FALMOUTH - WEST BRIDGEWATER, MA		APPROVED BY:	GRC		PROJECT NO.
						CIVIL ENGINEERING - LAND SURVEY - L.S.P. SERVICES					11-129-650
						225 SOUTH MAIN STREET, WEST BRIDGEWATER, MA 02379					
						TEL:508-580-2332 MOBILE: 617-347-1363 E-MAIL:GRCPE@AOL.COM					
1	5-22-20	PERMIT RENEWAL - NEW WATER SERVICE	GRC	GRC							
REV.	DATE	DESCRIPTION	BY	APP.							