"SOIL LOGS"

EL. 99.50'	D.T.H #1	EL.	D.T.H #2
EL. 98.50'	12"-0 FILL		
EL. 97.83'	0-8" A 10YR 3/2 SL	EL.	
EL. 97.0'	8"-18" Bw 10 yr 4/4 SL		
	18"-84" C1 10 YR 4/4" COURSE SAND &	EL.	
EL. 91.5'	GRAVEL		
	84" TO 120" C2 10 YR 4/2	EL.	
EL. 88.5'	COURSE SAND		

DRY - NO MOTTLES
ESTIMATED G.W.> 108" FROM FILL

SOIL EVALUATOR: MICHAEL YERKA (YERKA ENGINEERING)

"I CERTIFY THAT ON JULY 1995 I HAVE PASSED THE EXAMINATION APPROVED BY THE DEPARTMENT OF ENVIRONMENTAL PROTECTION AND THAT THE ABOVE ANALYSIS HAS BEEN PERFORMED BY ME CONSISTENT WITH THE REQUIRED TRAINING, EXPERTISE, AND EXPERIENCE DESCRIBED IN 310 CMR 15.018 (2)"

OTHER PERSONS ON SITE AT TESTING: HARRY STEWART (backhoe)

PERCOLATION RATE	3 MPI
DATE SOIL EVALUATION	APRIL 18, 2012
DATE PERCOLATION TEST	APRIL 18, 2012
INSPECTOR	JAMES MALLEY
TESTING APPLICANT:	PAUL LORANGE

"CONSTRUCTION NOTES"

1. EXCAVATE ALL IMPERVIOUS MATERIAL INCLUDING TOP & SUB SOIL; SILT; CLAY; ETC. TO PERVIOUS MATERIAL IN TRENCH AREA AND IN FIVE FOOT (5') GRAVEL AREA.
2. THE GRAVEL SHALL BE PLACED ACCORDING TO SEC. 15.255 SUB-SECTION 3 TO 6.
3. ELEVATION OF GRAVEL 97.00'
4. TRENCHES TO BE 8.5' O.C.
5. BOTTOM OF TRENCHES TO BE LEVEL FOR ENTIRE LENGTH OF SYSTEM 95.67'
6. ALL OUTLET PIPES FROM THE DISTRIBUTION BOX TO BE LEVEL FOR A MINIMUM OF ONE PIPE LENGTH OR 2 FEET.
7. NO SURFACE, SUBSURFACE OR OPEN DRAINS THAT INTERCEPT GROUNDWATER WITHIN 25 FEET OF THE SEPTIC TANK OR 50 FEET FROM THE LEACHING SYSTEM.
8. ENGINEER TO INSPECT BOTTOM EXCAVATION OF LEACHING AREA PRIOR TO GRAVEL PLACEMENT
9. HYDRAULIC CEMENT TO BE USED TO SEAL CONNECTIONS AT THE FOUNDATION, SEPTIC TANK, DIST. BOX. & ALL UNUSED OUTLETS.
11. LOAM & SEED ALL DISTURBED AREAS. (ENVIRONMENTAL MATTING ON SLOPES > 50%)
12. CONSTRUCTION OF SEPTIC TANK, DOSING CHAMBER & DISTRIBUTION BOX SHALL CONFORM WITH 310 CMR 15.221 THROUGH 15.226

LEGEND

APPROX. GAS LINE	—G—·—·—G—
DEEP TEST HOLE	
PERCOLATION TEST HOLE	
EXISTING CONTOURS	100
PROPOSED CONTOURS	100
APPROX. TOWN WATER LINE	—W—·—·—W—
BENCH MARK	
SPOT ELEVATIONS (exist.)	100x0
SPOT ELEVATIONS (proposed)	100x0

ADDITIONAL NOTES

1. TOWN PERMIT *
2. SEPTIC TANK TO BE PUMPED ANNUALLY
3. WELL TO BE TESTED EVERY TWO YEARS
4. PLAN ☐ IS, ☑ IS NOT LOCATED WITHIN A FLOOD HAZARD ZONE. PANEL #25027C1026E
5. KNOWN EASEMENTS ON LOT. YES ☑ : NO ☐
6. SYSTEM LOCATED IN NITROGEN SENSITIVE AREA AS DEFINED BY THE MA DEP OR TITLE V. YES ☐ : NO ☑

DESIGN INFORMATION

1. DESIGN RATE 3 MPI
2. SIDEWALL AREA 60 GPD/SF BOTTOM AREA 60 GPD/SF
3. 92.44' LINEAL FEET OF CHAMBER REQUIRED
4. USE 127.2' LINEAL FEET 7.33.33sf/17.93 SF/LF X 4.0') +23.2 CHAMBERS REQUIRED. (USE 30 CHAMBERS • 312.4 ft) END CAPS • 60.5.2 GPD)
5. NO GARBAGE DISPOSAL UNIT
6. 4 BEDROOM HOUSE ; DAILY FLOW Minimum of 440 gallons
7. NO OTHER WELL WITHIN 200 FEET OF THE PROPOSED SYSTEM OTHER THAN SHOWN ON PLAN, NO OTHER SYSTEM WITHIN 200 FEET OF THE PROPOSED WELL OTHER THAN SHOWN ON PLAN.
8. WATER SOFTENERS SHALL NOT CONNECT TO SEPTIC TANK.
9. STORMWATER DRAINAGE ON SITE. YES ☑ : NO ☐
10. POTABLE WATER SUPPLY (PUBLIC) ON SITE. YES ☐ : NO ☑
11. LOT AREA ☐ IS, ☑ IS NOT TRIBUTARY TO A PUBLIC SURFACE WATER SUPPLY AND IS NOT LOCATED IN A ZONE 2 OF PUBLIC WELLS.
12. ALL KNOWN UTILITY LOCATIONS (APPROX.) ON SITE ARE SHOWN.
13. CONTRACTOR SHALL NOTIFY DIG-SAFE AT 1-888-344-7233 PRIOR TO CONSTRUCTION.
14. NO FOUNDATION DRAINS TO BE INSTALLED.

NOTE: ALL SEWER STRUCTURES ARE ABOVE MAXIMUM GROUND WATER. YES ☑ : NO ☐

LOADING CALCULATIONS

INFILTRATOR SYSTEMS
HIGH CAPACITY CHAMBER

CHAMBER DIM. 34"w x 53"l x 16"h
E.L.A - EFFECTIVE LEACHING AREA PER CHAMBER 17.93 SF/LF)
E.T.L: EFFECTIVE TRENCH CAPACITY 7.93 SF/LF X 60 GPD/SF = 475 GPD/LF

PER TITLE V USE MIN. OF 400 SF FOR CHAMBER BOTTOM AND SIDEWALL AREA

E.T.L: 7.93 SF/LF X 60 GPD/SF = 475.8 GPD/LF

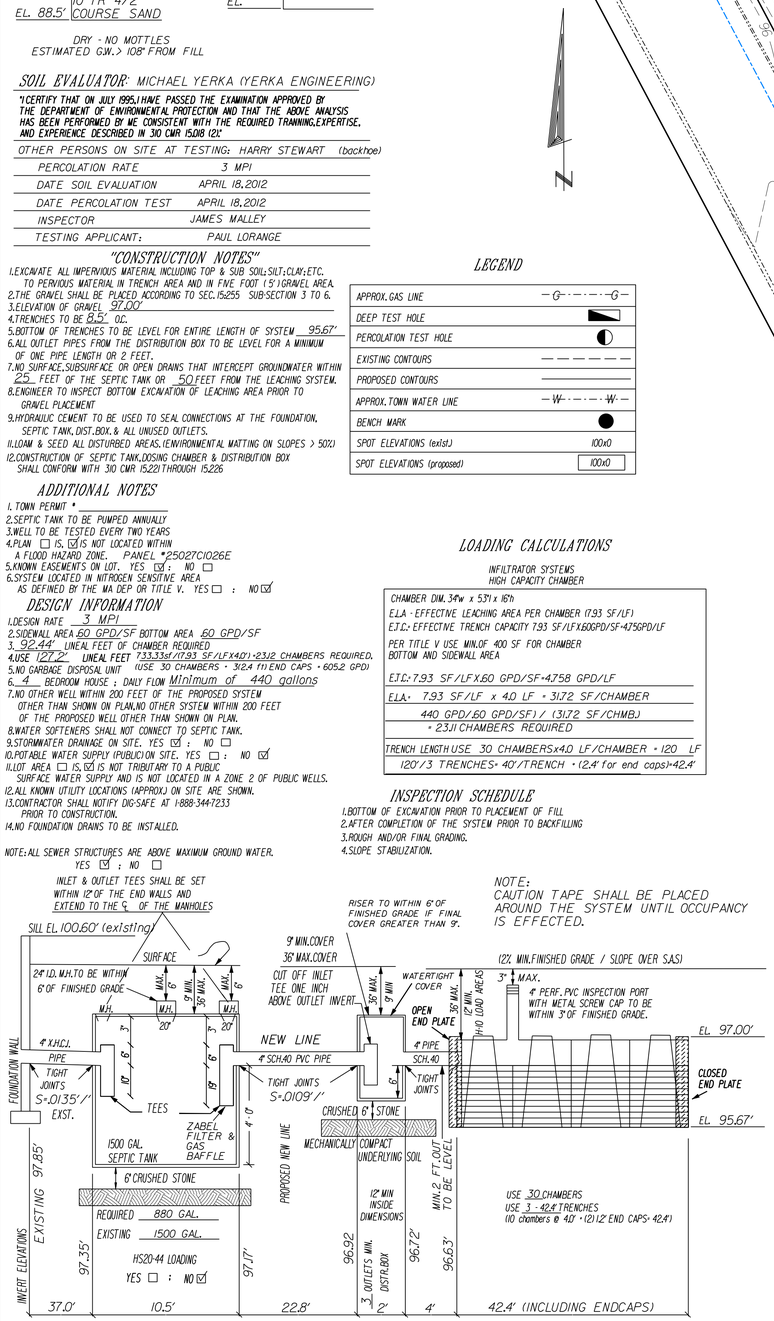
E.L.A. = 7.93 SF/LF x 4.0 LF = 31.72 SF/CHAMBER

440 GPD/60 GPD/SF) / (31.72 SF/CHMB) = 23.1 CHAMBERS REQUIRED

TRENCH LENGTH USE 30 CHAMBERS x 4.0 LF/CHAMBER = 120 LF
120'/3 TRENCHES = 40'/TRENCH + (2.4' for end caps) = 42.4'

INSPECTION SCHEDULE

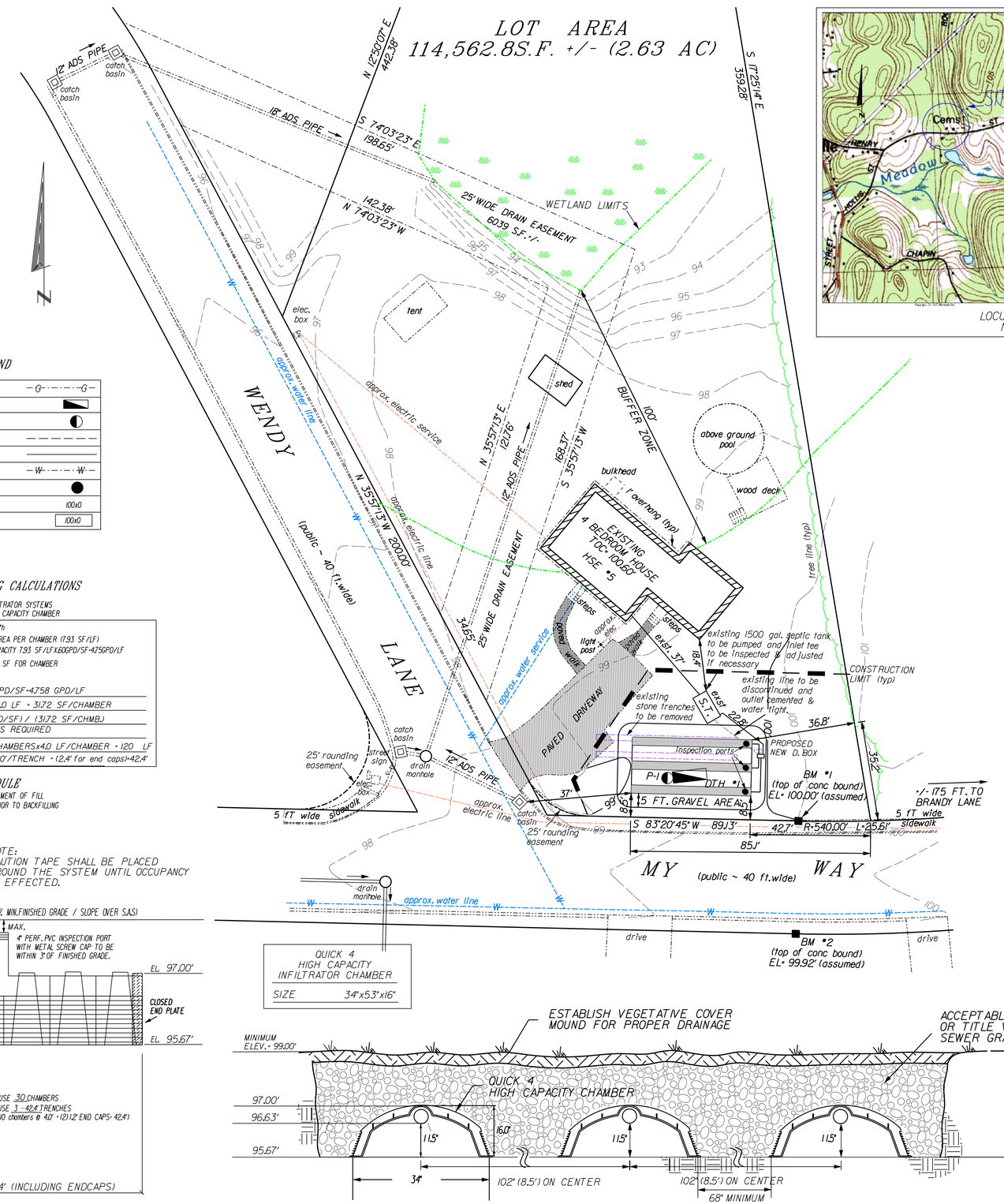
1. BOTTOM OF EXCAVATION PRIOR TO PLACEMENT OF FILL
2. AFTER COMPLETION OF THE SYSTEM PRIOR TO BACKFILLING
3. ROUGH AND/OR FINAL GRADING.
4. SLOPE STABILIZATION.



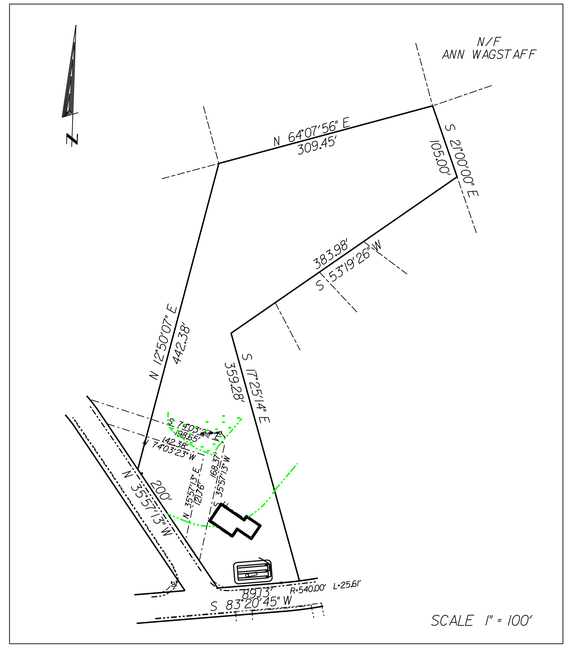
PARTIAL LONGITUDINAL CROSS SECTION - NO SCALE

NOTE:
CAUTION TAPE SHALL BE PLACED AROUND THE SYSTEM UNTIL OCCUPANCY IS EFFECTED.

NOTE:
INSPECTIONS TO BE CONDUCTED ACCORDING TO THE REGULATIONS OF THE UXBRIDGE BOARD OF HEALTH



LOCUS MAP
NTS



SCALE 1" = 100'

NOTES:

WETLANDS WERE REVIEWED BY MARGARET BACON PWS ON APRIL 12, 2012

ONLY INSTALLERS CERTIFIED IN THE INSTALLATION PROCEDURES OF THE INFILTRATOR SYSTEMS WILL BE ALLOWED TO CONSTRUCT AND INSTALL THIS SYSTEM.

INSTALLER SHALL INSTALL THE SYSTEM IN ACCORDANCE WITH INFILTRATOR SYSTEM INC.'S "DESIGN AND INSTALLATION MANUAL FOR INFILTRATOR CHAMBERS IN MASSACHUSETTS", AND THE CONDITIONS AS SET FORTH IN DEPARTMENT OF ENVIRONMENTAL PROTECTION'S CERTIFICATION FOR THE QUICK 4 SYSTEM ISSUED ON SEPTEMBER 18, 2009.

REVISION	DESCRIPTION	DATE

QUICK 4
HIGH CAPACITY
INFILTRATOR CHAMBER
SIZE 34"x53"x16"

INFILTRATOR QUICK 4
HIGH CAPACITY CHAMBER (TYP.)

NOT TO SCALE
TRENCH DETAIL

1 inch = 20 feet
20' 0' 20' 40'

REPAIR

SEWAGE DISPOSAL SYSTEM
FOR
JOHN DOE
37 ENSIGN ST
NORTHBRIDGE MA
DATE : APRIL 22, 2012 SCALE : 1" = 20'

CIVIL SITE ENGINEERING
128 WEST HARTFORD AVE.
UXBRIDGE MA 01569
508-278-5091
SITE PLANNING SEPTIC DESIGN WETLANDS

PROJ.# S12106.DGN