1236 BAY RD.
7 bedrooms –

9/23 pere's
10/18 plan REVIEW
10/19 plan approval

Plan: 11-02 Designed by: Alan Weiss

CHECK LIST FOR SEPTIC PLANS

- [x] Application page attached to plan
- [x] PE or RS stamp, date, signature
- [x] Variances to property line setback distances must have Surveyor Stamp 15.20 (3)
- [x] Legal boundaries noted
- [ ] Easements noted (NA)
- [x] Dwellings and buildings existing or proposed noted
- [x] Location of driveway or parking areas, other impervious areas
- [x] Location and dimensions of reserve area (new) CMR 15.248(1), 15.104(4)
- [x] System design calculations
- [ ] Garbage grinder Y or N
- [x] Benchmark not disturbed during construction, within 75 feet of facility CMR15.220 (4)(q)
- [x] North arrow CMR 15.200 (4) (g)
- [x] Contours
- [x] Deep hole location and data
- [x] Perc hole location and data
- [x] Elevations
- [x] Names of approving authority and soil evaluator CMR 15.211 p. 49
- [x] Location of every water supply, public and private CMR 15.220(k):
  - Within 400 feet of system in case of surface water and gravel packed public water supply
  - Within 250 feet of system in case of tubular public water supply
  - Within 150 feet of private supply wells 100' septic sys. ; 50' tank
- [ ] **Well statement if applicable** (NA
- [x] Location of any surface waters, rivers, vegetated wetlands
- [x] Location of water lines and other subsurface utilities
- [x] Observed and adjusted ground water elevation in the vicinity of system 15.220 (4)(n) 120"
- [x] Profile of system
- [x] Locus plan to show location of facility, including nearest street
- [x] Materials of construction and specs for system
- [x] Gas Baffle 15.227.4
- [x] Pipe in center line of tank 310 CMR 15.227, 15.06(8)
- [x] Double washed stone
- [x] Schedule 40 PVC for trafficked areas, house to tank
- [x] Distances noted from house to tank, etc. 25'
- [ ] If dosing is proposed, design and specs of dosing system (NA)
- [ ] When alternative technology is required, complete plan and specs, including hydraulic profile (NA)
- [x] Trenches preferred over beds CMR 15.240 (6)
- [ ] Buoyancy calculations for tanks or components partly below H20 table 15.221(8) p. 56 (NA)
- [x] 3 to 1 slope outside of mound, toe ending 5 feet from property line
- [ ] Local upgrade requests on the plan (NA)
- [ ] Local upgrade forms attached to application (NA)
- [ ] Note on plan listing all variances sought in conjunction with the plan (NA)

NOTES: System is approved for 7 bedrooms, owner wishes to open 13 & 15.

No. _____ FEE _____

COMMONWEALTH OF MASSACHUSETTS

Board of Health, Amherst, *MA.*

APPLICATION FOR DISPOSAL SYSTEM CONSTRUCTION PERMIT

COMMONWEALTH OF MASSACHUSETTS ALAN E. WEISS REG #933 REGISTERED SANITARIAN

Application for a Permit to Construct( ) Repair( ) Upgrade(X) Abandon( ) - ❑ **Complete System** ❑ **Individual Components**

Location	1236 Bay Rd.	Owner's Name	Garry Beard
Map/Parcel#	30B-18	Address	1236 Bay Rd.
Lot#	18	Telephone#	256-6007
Installer's Name	Adair's Septic	Designer's Name	Alan Weiss
Address	Amherst MA	Address	Belchertown MA.
Telephone#	253-1519	Telephone#	323-5957

Type of Building Residence / B+B Lot Size 1.33 Ac+ 3.0 Ac. TOTAL sq. ft.

Dwelling - No. of Bedrooms 7. Garbage grinder (N)o

Other - Type of Building _____ No. of persons _____ Showers ( ), Cafeteria ( )

Other Fixtures _____

Design Flow (min. required) 110 gpd Calculated design flow 770 Design flow provided 784 gpd

Plan: Date 10/14/2010 Number of sheets _____ Revision Date _____

Title Septic System Design.

Description of Soil(s) _____

Soil Evaluator Form No. _____ Name of Soil Evaluator A. Weiss Date of Evaluation 9/23/2010

DESCRIPTION OF REPAIRS OR ALTERATIONS New Septic System for Upgrade.

The undersigned agrees to install the above described Individual Sewage Disposal System in accordance with the provisions of TITLE 5 and further agrees to not to place the system in operation until a Certificate of Compliance has been issued by the Board of Health.

Signed Garry Beard Date 10/18/2010

SIGN & DATE

Inspections _____

No. 1102 FEE 150.00

COMMONWEALTH OF MASSACHUSETTS

Board of Health, Amherst, *MA.*

CERTIFICATE OF COMPLIANCE

Description of Work: ❑ **Individual Component(s)** ❑ **Complete System**

The undersigned hereby certify that the Sewage Disposal System; Constructed (✓), Repaired ( ), Upgraded ( ), Abandoned ( )

by: Adairs Septic

at 1236 Bay Rd

has been installed in accordance with the provisions of 310 CMR 15.00 (Title 5) and the approved design plans/as-built plans relating to application No. 1102, dated 10/14. Approved Design Flow 784 (gpd)

Installer Adair

Designer: Alan Weiss Inspector: Lloyd Castelmancha Date: _____

The issuance of this permit shall not be construed as a guarantee that the system will function as designed.

No. 11-02 FEE 150.00

COMMONWEALTH OF MASSACHUSETTS

Board of Health, Amherst, *MA.*

DISPOSAL SYSTEM CONSTRUCTION PERMIT

Permission is hereby granted to; Construct(✓) Repair( ) Upgrade( ) Abandon( ) an individual sewage disposal system at 1236 BAY RD as described in the application for Disposal System Construction Permit No. 11-02, dated 10/18/2010

Provided: Construction shall be completed within three years of the date of this permit. All local conditions must be met.

Form 1255 Rev. 5/96 A.M. Sulkin Co. Charlestown, MA

Date 10/18/2010 Board of Health Lloyd Castelmancha

S.E. # 13267

COLD SPRING ENVIRONMENTAL CONSULTANTS, INC.

ALAN E. WEISS, M.S., R.S., L.S.P.
Licensed Site Professional
Registered Sanitarian
Hydrogeologist
President

•Wetland Consults
•Soil and Water Testing
•21E Site Investigations
•Percolation Tests and
•Septic Designs
•Title 5 Inspections

50 Old Enfield Rd.
Belchertown, MA 01007
(413) 323-5957 & 323-4916 (FAX)
aeweiss@charter.net

Date: 9/23/10

Commonwealth of Massachusetts
Amherst, Massachusetts

Soil Suitability Assessment for On-site Sewage Disposal

Performed By: A. Weiss
Witnessed By: G. Courtmanche

Date: 9/23/2010

Location Address or Lot # 1236 Bay Rd. MAP. 30B / LOT 18. Adding Bedrooms New Construction ☒ Repair ☒	Owner's Name, Address, and Telephone # Garry & Drew Beard 1236 Bay Rd. Amherst, MA 01002 256-6002

Office Review

Published Soil Survey Available: No ☐ Yes ☒

Year Published Publication Scale Soil Map Unit

Drainage Class Soil Limitations

Surficial Geologic Report Available: No ☒ Yes ☐

Year Published Publication Scale

Geologic Material (Map Unit)

Landform

Flood Insurance Rate Map:

Above 500 year flood boundary No ☐ Yes ☒

Within 500 year flood boundary No ☒ Yes ☐

Within 100 year flood boundary No ☒ Yes ☐

Wetland Area:

National Wetland Inventory Map (map unit)

Wetlands Conservancy Program Map (map unit)

Current Water Resource Conditions (USGS): Month

Range: Above Normal ☐ Normal ☒ Below Normal ☒

Other References Reviewed: _____

FORM 12 - PERCOLATION TEST

Location Address or Lot No. 1236 Bay Rd.

COMMONWEALTH OF MASSACHUSETTS

Amherst, Massachusetts

Percolation Test*

Date: 9/23/2010 Time: 9 AM

Observation Hole #	P1	P2
Depth of Perc	46"	44"
Start Pre-soak	9:08	9:08
End Pre-soak	9:11	9:26
Time at 12"	9:13	9:26
Time at 9"	9:14 COULD	9:31
Time at 6"	9:19 NOT	9:39
Time (9"-6")	<2 HOLD	8
Rate Min./Inch	<2	3 MIN/IN

* Minimum of 1 percolation test must be performed in both the primary area AND reserve area.

Site Passed ☒ Site Failed ☐

Performed By: A. Weiss

Witnessed By: G. Courtmanche

Comments:

DEP APPROVED FORM - 12/07/95

Location Address or Lot No. 1236 Bay Rd

On-site Review

Deep Hole Number 1+2 → 3+4 Date: 9/23/2010 Time: _____ Weather Sun 60°

Location (identify on site plan) _____

Land Use Resid. / Slope (%) 2 Surface Stones few

Vegetation mixed deciid.

Landform terraced.

Position on landscape (sketch on the back)

Distances from:

Open Water Body 100'+ feet Drainage way 50'+ feet

Possible Wet Area 100'+ feet Property Line see plan. feet

Drinking Water Well Tow 100'+ feet Other _____

DEEP OBSERVATION HOLE LOG*

	Depth from Surface (Inches)	Soil Horizon	Soil Texture (USDA)	Soil Color (Munsell)	Soil Mottling	Other (Structure, Stones, Boulders, Consistency, % Gravel)
1	0-6"	A	FSL	10YR 3/3		- Friable.
	6-38"	Bw	LS	10YR 5/6	NOT	- Friable
	38"-120"	C.	LS/S	10YR 5/4	Obs	C. SAND + F SAND inter-layered.
2	0 4"	A	FSL	↓	↓	
	4"-46"	B	LS			
	46"-120"	C,	LS/S			F. Sand well Sorted
3	0-14"	A	FSL			
+	14"-46"	Bc	LS			
4	46"-120"	C	S	↓	↓	F. Sand, well Sorted

* MINIMUM OF 2 HOLES REQUIRED AT EVERY PROPOSED DISPOSAL AREA

Parent Material (geologic) Lacustrine beach Depth to Bedrock: 120"+

Depth to Groundwater: Standing Water in the Hole: NOT Weeping from Pit Face: Not.

Estimated Seasonal High Ground Water: 120" + (eff.)

Location Address or Lot No. 1736 BAY RD. / Amherst.

Determination for Seasonal High Water Table

Method Used:

- ☐ Depth observed standing in observation hole ..... inches
- ☐ Depth weeping from side of observation hole ..... inches
- ☒ Depth to soil mottles 120" inches effective
- ☐ Ground water adjustment ..... feet

Index Well Number ..... Reading Date ..... Index well level .....

Adjustment factor ..... Adjusted ground water level .....

Depth of Naturally Occurring Pervious Material

Does at least four feet of naturally occurring pervious material exist in all areas observed throughout the area proposed for the soil absorption system? yes

If not, what is the depth of naturally occurring pervious material? _____

Certification

I certify that on 6/95 (date) I have passed the soil evaluator examination approved by the Department of Environmental Protection and that the above analysis was performed by me consistent with the required training, expertise and experience described in 310 CMR 15.017.

Signature _____ Date 9/23/2010

COMMONWEALTH OF MASSACHUSETTS
ALAN E. WEISS
REG. #933
REGISTERED SANITARIAN

Amherst, Massachusetts Founded 1759 — Amherst Public GIS Viewer

Property Map
- Property Lines
  - Property Line
  - Hydrographic Propert
  - Right of Way Line
  - Town Boundary
- Other Property Lines
  - Former Property Line
  - Subdivision Lot Line
- Easements

Basemap
- Trails
- Rail Lines
- Structures
  - Building
  - Foundation or in const
  - Outbuilding or Miscell
  - Deck, Porch, Stairs or
  - Mobile home, Trailer
  - Swimming Pool
  - Building Ruins
  - Water storage tank
- Rivers and Streams
  - Streams
  - Major Culverts
  - Hydro Connector
  - Headwalls, Floodwalls
- Landcover
  - Brush and scrub vege
  - Tree and forest veget
  - Cultivated field
  - Gravel pile
  - Quarry
  - Misc Impervious Surfs
- Parking
  - Parking Paved
  - Parking Unpaved
- Driveways
  - Driveway Paved
  - Driveway Unpaved
- Sidewalks
- Transportation
  - Paved street polygons
  - Unpaved street polyg
- Bridges
  - Bridge decking and str
  - Foot Bridge
  - Rail Bridge

Horizontal Datum: MA Stateplane Coordinate System, Zone 4151, Datum NAD83, Feet
Vertical Datum: NAVD88, Feet

Planimetric & topographic basemap features compiled at 1"=40' scale from April, 2009 Aerial Photography. Parcels compiled to match the basemap; revisions are ongoing.

The information depicted on this map is for planning purposes only. It may not be adequate for legal boundary definition, regulatory interpretation, or property conveyance purposes. Utility structures and underground utility locations are approximate and require field verification.

1" = 50 ft

Amherst GIS Viewer October 15, 2010

CONSTRUCTION DETAIL

Element	Cd.	Ch.	Description
Style	10		Family Duplex
Model	01		Residential
Grade	26		Grade = 130%
Stories	2		2 Stories
Occupancy	2		
Exterior Wall 1	20		Brick/Masonry
Exterior Wall 2	25		Vinyl Siding
Roof Structure	03		Gable/Hip
Roof Cover	03		Asph/F Gls/Cmp
Interior Wall 1	03		Plaster/SkimC
Interior Wall 2	05		Drywall/Sheet
Interior Flr 1	12		Hardwood
Interior Flr 2			
Heat Fuel	02		Oil
Heat Type	06		Steam
AC Type	01		None
Total Bedrooms	06		6 Bedrooms
Total Bthrms	2		
Total Half Baths	0		
Total Xtra Fixtrs			
Total Rooms	10		10 Rooms
Bath Style	02		Average
Kitchen Style	02		Modern

CONSTRUCTION DETAIL (CONTINUED)

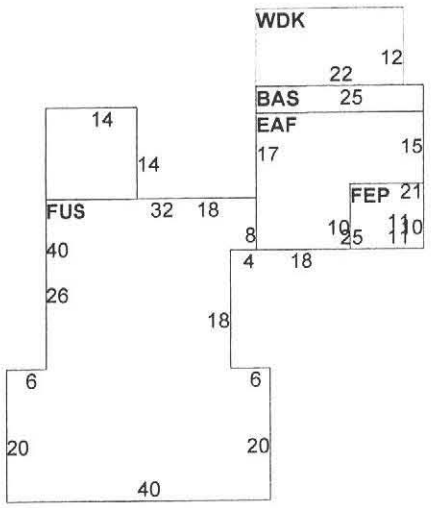
Element	Cd.	Ch.	Description
Foundation			

MIXED USE

Code	Description	Percentage
1040	TWO FAMILY MDL-01	100

COST/MARKET VALUATION

Adj. Base Rate:	116.30
Section. RCN:	493,801
Net Other Adj:	0.00
Replace Cost	493,801
AYB	1770
EYB	1983
Dep Code	GD
Remodel Rating	
Year Remodeled	
Dep %	25
Functional Obslnc	0
External Obslnc	0
Cost Trend Factor	1
Condition	
% Complete	
Overall % Cond	75
Apprais Val	370,400
Dep % Ovr	0
Dep Ovr Comment	
Misc Imp Ovr	0
Misc Imp Ovr Comment	
Cost to Cure Ovr	0
Cost to Cure Ovr Comment	



OB-OUTBUILDING & YARD ITEMS(L) / XF-BUILDING EXTRA FEATURES(B)

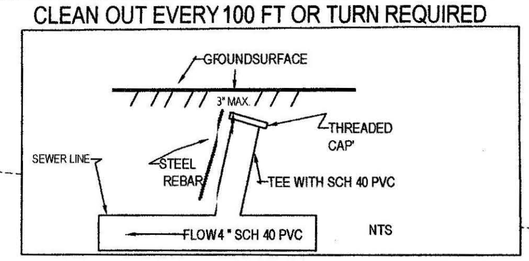
Code	Description	Sub	Sub Descript	L/B	Units	Unit Price	Yr	Gde	Dp Rt	Cnd	%Cnd	Apr Value
FGR1	GARAGE-AVE			L	320	20.00	1951		0		50	3,200
SHD1	SHED FRAME			L	100	8.00	1916		0		10	100
FGR5	W/LOFT GOOI			L	952	35.00	1951		0		50	16,700
FPL3	FIREPLACE 2 :			B	2	4,000.00	1983		1		100	6,000

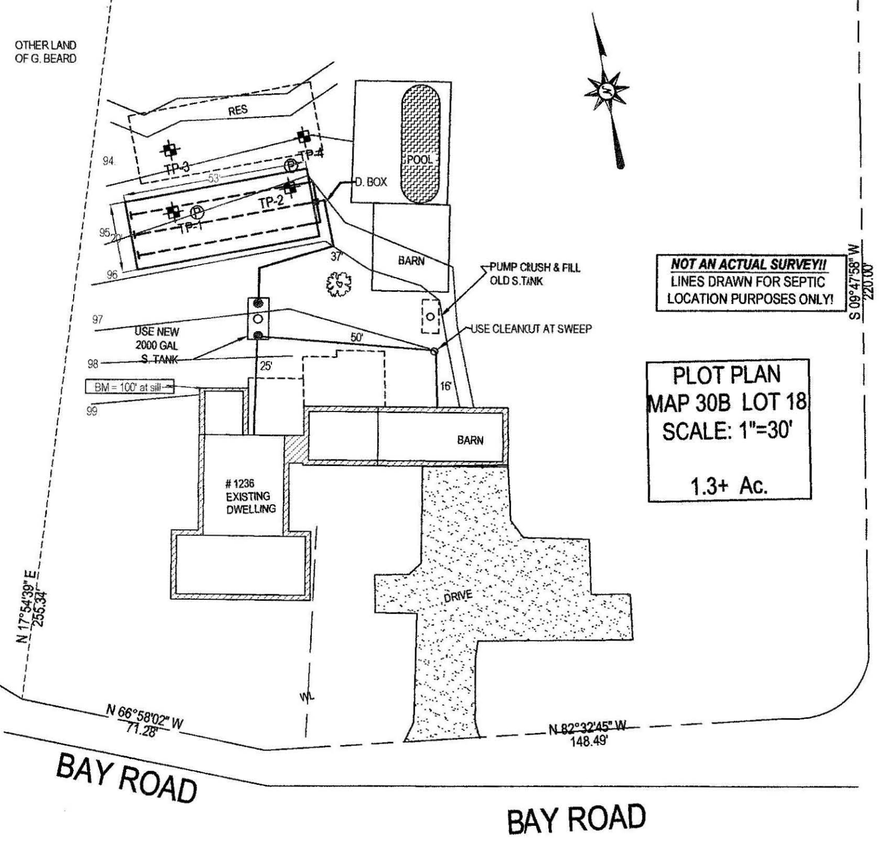
BUILDING SUB-AREA SUMMARY SECTION

Code	Description	Living Area	Gross Area	Eff. Area	Unit Cost	Undeprec. Value
BAS	First Floor	2,271	2,271	2,271	116.30	264,113
EAF	Attic, Expansion, Finished	184	525	184	40.76	21,399
FEP	Porch, Enclosed, Finished	0	110	77	81.41	8,955
FUS	Upper Story, Finished	1,404	1,560	1,404	104.67	163,282
UBM	Basement, Unfinished	0	1,420	284	23.26	33,029
WDK	Deck, Wood	0	264	26	11.45	3,024
	Ttl. Gross Liv/Lease Area:	3,859	6,150	4,246		493,801


1" = 60'
Bertha A. Markert
I.P.(to be set)
S 73°-01'-33"E
209.75'
Bertha A. Markert
N 17°-54'-39"E
255.34'
Lot No. 401
1.33 Acres
Gar.
House
S 9°-47'-38"W
220.00'
Edward R. & Clara D. Markert
(Right of Way)
50'
To Hadley
I.P.(To be set)
8.21'
N 66°-38'-02"W
148.49'
N 82°-32'-45"W
BAY
ROAD
To Belchertown
1966 Survey by Russell Snow, PLS. PBK. 68 P. 59

CLEAN OUT EVERY 100 FT OR TURN REQUIRED



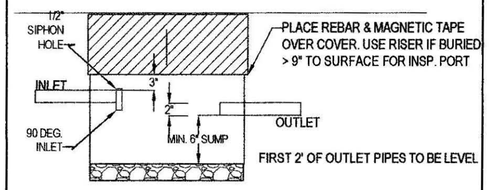


NOT AN ACTUAL SURVEY!!
LINES DRAWN FOR SEPTIC LOCATION PURPOSES ONLY!

S 09°47'58" W 220.00'

PLOT PLAN
MAP 30B LOT 18
SCALE: 1"=30'
1.3+ Ac.

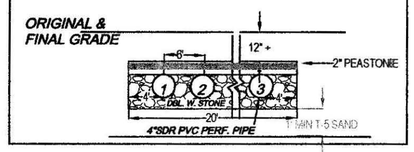
TYPICAL D.BOX (WATERTIGHT)



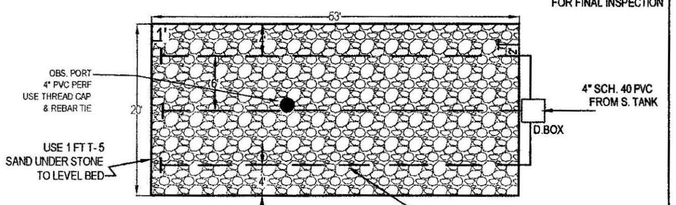
- PLACE ON STABLE 6" BASE OF 3/4" TO 1-1/2" D.W. STONE
- USE CONCRETE BOX WITH 2" MINIMUM WALL THICKNESS.
- FILL WITH WATER FOR FINAL INSPECTION.
- USE LARGE STYLE D.BOX 6 outlet (Underground Supply)

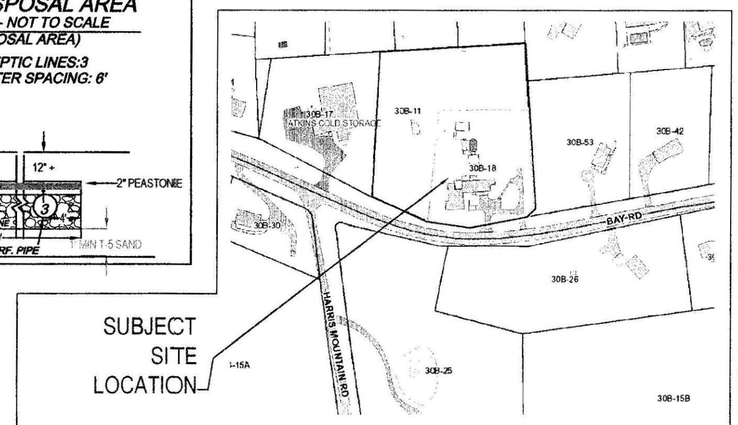
EFFLUENT DISPOSAL AREA

CROSS SECTION - NOT TO SCALE
(LEVEL DISPOSAL AREA)
NUMBER OF SEPTIC LINES:3
CENTER TO CENTER SPACING: 6'



LEACH FIELD DETAIL (NTS)





DESIGN NOTES AND CALCULATIONS:

1.) 7 BEDROOM HOME X 110 GPD /BR = 770 GPD. REQUIRED,

-Use ONE FIELD: 20'' WIDE X 53' LONG WITH 6" OF ¾" TO 1½" DBL WASHED STONE BELOW INVERT

- BOTTOM AREA: 20' W)X53' L =1060SF.
- SIDE AREA: 0 SF.
- TOTAL AREA:1060 SF)X 0.74 GAL/SF = 784 GPD

3. GARBAGE DISPOSAL NOT ALLOWED, ...
4. NO OTHER PRIVATE WELLS WITHIN 150 FEET OF SAS.
5. NO WETLANDS WITHIN 100 FEET OF SAS
6. USE S. TANK AS NOTED & MAINTAIN 0.02 PITCH FROM SILL TO S. TANK
   - INSTALL & INSPECT SCH. 40 TEES / BAFFLES (10" INLET, 14" OUTLET),
   NOTE:
   - ALL COMPONENTS OF NEW SYSTEM MUST BE MARKED WITH MAGNETIC TAPE. BE SURE TO MAINTAIN 3" CLEARANCE FROM TOP OF TEES TO BOTTOM OF TANK COVERS & BOXES.
7. USE LARGE STYLE (6 OUTLIET) D.BOX ONLY.

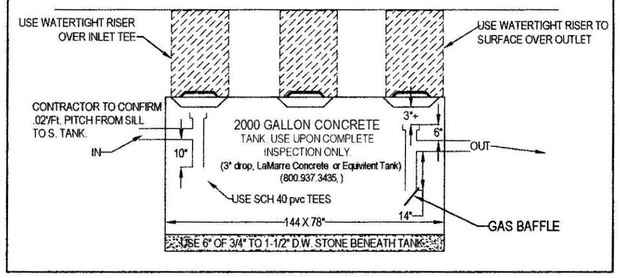
7A ALL D. BOX OUTLET PIPES LEVEL FOR FIRST 2'. BOXES MUST HAVE 2"+ CONC. WALLS
   NOTE:
   - D. BOXES WITH MORE THAN 9" OF COVER SOIL MUST HAVE RISERS TO 6" OF SURFACE.

8. USE (.75"-1 1/2") STONE UNDER TANK & D. BOX FOR 6" FOR STABLE BASE.
   -USE ONLY DBL. WASHED /APPROVED(.75"-1.5") FOR PLACEMENT IN LEACH AREA.
9. USE PROPER SCH. 40 PVC TEES AS SHOWN.
10. PRE & POST CONTOURS NOTED AS NECESSARY, RESERVE AS NOTED
11. SLOPE CALCS (SEE CONTOURS). SUBGRADE INSP. REQ'D.
13. USE FIELD DUE TO TOPOGRAPHY AND SPACE OF LOT WITH RESPECT TO LOCATION AND ELEVATION OF RESIDENCE (310 CMR 15.240)
14. USE 2% MIN. SLOPE OVER SAS
   - CLEAR TOP AND SUB TO 46" MIN. AS NEEDED (INSPECTION REQUIRED).
   - CLEAR PAST BASE OF B ((MIN. 46") & SCARIFY UNDER BED PRIOR TO TITLE V SAND/STONE PLACEMENT.
   - EXCAVATE EXISTING LOAM, SUB AND ANY EXISTING DEBRIS, DIRTY FILL OR PRIOR SYSTEM IF PRESENT.
15. SOIL EVALUATION BY A. WEISS, RS. ON 09.23.2010 (G. COURTMANCHE, BOH AGENT).
   - DEPTH OF PERC. 46 & 44"
   - PERC RATE = 3 & <2 MINI / IN,
   - CLASS 1 SOIL RATING
16. NO TREES WITHIN 10 FT. OF NEW LEACH FIELD.
17. ENGINEER & TOWN (IF REQUIRED) TO INSPECT SUBGRADE, TOWN AND ENGINEER INSPECT AT FINAL.
18. BM=100.00 @ (SILL as noted), CONFIRM PROPER PIPE SLOPES
   - USE/INSPECT SCH. 40 PIPE FOR PIPE FROM HOUSE TO NEW OR EXISTING TANK
19. GRADE MULCH AND SEED OVER SAS AS NOTED.
20. INSTALLATION IN LOW GROUNDWATER SEASON RECOMMENDED.
21. USE OBSERVATION PORT NEAR CENTER OF STONE BED HAVE 4" PERFORATED, PVC INSPECTION PORTALS TO BOTTOM OF STONE BED, WITH RISER TO 3" OF SURFACE & THREADED CAP & MARK WITH RE-BAR

GRAVITY SLOPE SEPTIC SYSTEM OPERATION AND MAINTENANCE NOTES FOR HOMEOWNER.

1.) HAVE TANK PUMPED EVERY 2 YEARS.
2.) MAINTAIN AREA OVER SEPTIC SYSTEM AS GRASSY OR SIMILAR GROUND COVER.
3.) DO NOT PLANT ANY TREES OR DEEP ROOTING SHRUBS WITHIN 10 FEET OF SYSTEM.
4.) USE ONLY LIQUID DETERGENTS & LOW FLOW WASHERS.
5.) WIPE ALL OIL AND GREASE FROM COOKWARE AND DISPOSE IN TRASH NOT SEPTIC.
6) All Toilets and Faucets must be confirmed to not be leaking, because one leaking fixture can fail a septic system in ONE DAY

TYPICAL 2000 GAL SEPTIC TANK (WATERTIGHT) OR EQUIVELANT.



TEST PIT LOG:

SOIL EVALUATOR: A. WEISS, RS
DATE OF EVALUATION: 09.23.2010

TP-1 EFF. ELEV: 95.

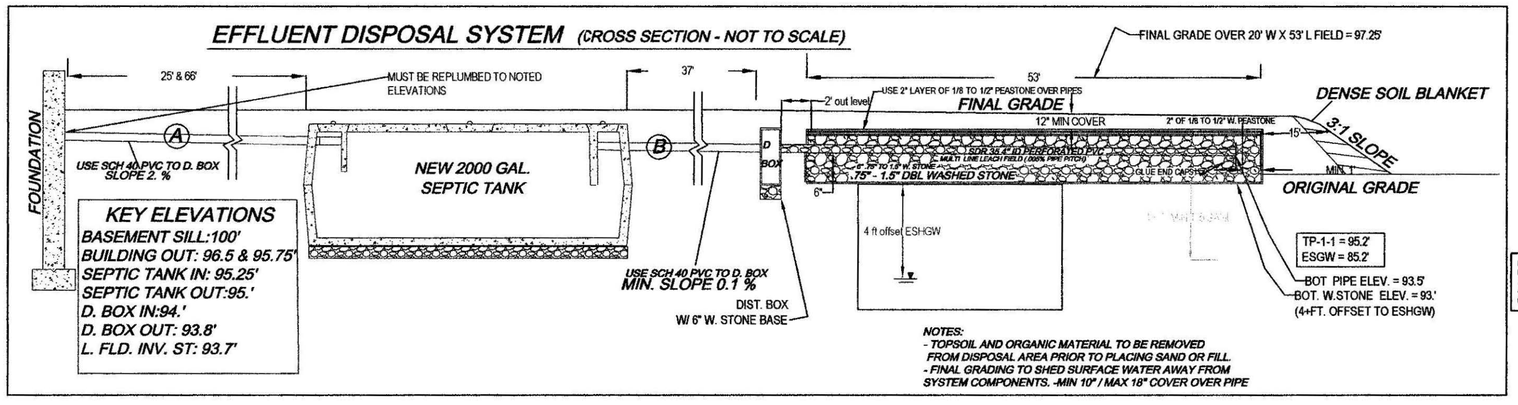
DEPTH:	HORIZ:	TEXTURE:	COLOR (MUNSELL):	MATERIAL:
0-6"	A	FSL	10 YR 3.3	FRIABLE
6-38"	Bw	LS	10YR5.6	FRIABLE
38-120"	C1	LS/S	10 YR 5.4	C- SAND TO F. SAND INTERLAYERED
OXIDES:			NOT	OBSERVED
EHWT.			1:20" = EFF. 85.'	
STANDING H2O:			NIOT OBSERVED	
WEEPING:			NIOT OBSERVED	
BEDROCK:			1:20" -126+	

TP-2 EFF. ELEV: 95.2

DEPTH:	HORIZ:	TEXTURE:	COLOR (MUNSELL):	MATERIAL:
0-4"	A	FSL	10 YR 3.3	FRIABLE
4-46"	Bw	LS	10YR5.6	FRIABLE
46-120"	C1	LS/S	10 YR 5.4	F. SAND 15% GRAV. & BOULDERS.
OXIDES:			NOT	OBSERVED
EHWT:			120" EFF.	
STANDING H2O:			NOT OBSERVED	
WEEPING:			NOT OBSERVED	
BEDROCK:			120" -126+	

(RESERVE DEEP HOLES 3 & 4 ATTACHED)

EFFLUENT DISPOSAL SYSTEM (CROSS SECTION - NOT TO SCALE)



KEY ELEVATIONS
BASEMENT SILL:100'
BUILDING OUT: 96.5 & 95.75'
SEPTIC TANK IN: 95.25'
SEPTIC TANK OUT:95.'
D. BOX IN:94.'
D. BOX OUT: 93.8'
L. FLD. INV. ST: 93.7'

NOTES:
- TOPSOIL AND ORGANIC MATERIAL TO BE REMOVED FROM DISPOSAL AREA PRIOR TO PLACING SAND OR FILL.
- FINAL GRADING TO SHED SURFACE WATER AWAY FROM SYSTEM COMPONENTS. -MIN 10" / MAX 18" COVER OVER PIPE

NOTE TO INSTALLER: A PLUMBER MUST INSPECT INSIDE PLUMBING AND FIX ANY LEAKING FAUCETS OR TOILETS IF FOUND TO BE LEAKING, OR FLOWING IMPROPERLY INTO SEPTIC SYSTEM PRIOR TO FINAL INSPECTION

COMMONWEALTH OF MASSACHUSETTS — ALAN E. WEISS — 4003 — REGISTERED SANITARIAN

ATTENTION INSTALLER!!
CALL DIG SAFE BEFORE YOU DIG!! MASSACHUSETTS STATE LAW CHAPTER 82 SECTIONS 40 - 40E REQURE THAT PREMARKING OF GAS, ELECTRIC, WATER, TELEPHONE AND CABLE T.V. UTILITY LINES BE MADE A *MINIMUM* OF 72 HOURS PRIOR TO GROUND BREAK FOR ANY EXCAVATION.

NOTE: *INSTALLER MUST CONTACT ENGINEER/BD OF HEALTH 48 HOURS PRIOR TO SUBGRADE INSPECTION. INSTALLER MUST HAVE ALL BREAK OUT FILL ON SITE AND IN PLACE PRIOR TO SIGN OFF BY ENGINEER AT TIME OF FINAL INSPECTION OR APPROVAL WILL NOT BE GIVEN TO BACKFILL.*

0' 30' 60' 90'

SEPTIC SYSTEM PLAN FOR GARRY BEARD
1236 BAY ROAD
AMHERST, MA

Cold Spring Environmental Consultants Inc.
350 Old Enfield Road
Belchertown, MA. 01007
PHONE: (413) 323-5957
FAX: (413) 323-4916
e-Mail: AEWEISS@charter.net

DATE:	DRAWN BY:	REVISED:
10.14.2010	AEW	
SCALE: 1"=30'	CHECKED BY: AEW	DRAWING NUMBER: 110-3468-0923

PERMITS/INSP PAYMENT RECPT#: 11057627
TOWN OF AMHERST
TOWN HALL
4 BOLTWOOD AVENUE
AMHERST MA 01002

DATE: 01/10/11 TIME: 12:39
CLERK: courteman DEPT:

PAID BY:
PAYMENT METH: CHECK 3270

REFERENCE:

AMT TENDERED: 150.00
AMT APPLIED: 150.00
CHANGE: .00

SITE ADDRESS: BEARD

FEES:
HEA017 SEPTIC TANK PER 150.00

TOTAL PAID: 150.00

No. _____ FEE _____

COMMONWEALTH OF MASSACHUSETTS

Board of Health, Amherst, *MA.*

APPLICATION FOR DISPOSAL SYSTEM CONSTRUCTION PERMIT

COMMONWEALTH OF MASSACHUSETTS ALAN E. WEISS REG #033 REGISTERED SANITARIAN

Application for a Permit to Construct( ) Repair( ) Upgrade(X) Abandon( ) - ❑ **Complete System** ❑ **Individual Components**

Location	1236 Bay Rd.	Owner's Name	Garry Beard
Map/Parcel#	30B-16	Address	1236 Bay Rd.
Lot#	18	Telephone#	256-6002
Installer's Name	Adair's Septic	Designer's Name	Alan Weiss
Address	Amherst MA	Address	Belchertown MA.
Telephone#	253-1519	Telephone#	323-5957

Type of Building Residence / B+B Lot Size 1.33 Ac+ 3.10 Ac. TOTAL sq. ft.

Dwelling - No. of Bedrooms 7. Garbage grinder W/O

Other - Type of Building _____ No. of persons _____ Showers ( ), Cafeteria ( )

Other Fixtures _____

Design Flow (min. required) 110 gpd Calculated design flow 770 Design flow provided 784 gpd

Plan: Date 10/14/2010 Number of sheets _____ Revision Date _____

Title Septic System Design.

Description of Soil(s) _____

Soil Evaluator Form No. _____ Name of Soil Evaluator A. Weiss Date of Evaluation 9/23/2010

DESCRIPTION OF REPAIRS OR ALTERATIONS New Septic System for Upgrade.

The undersigned agrees to install the above described Individual Sewage Disposal System in accordance with the provisions of TITLE 5 and further agrees to not to place the system in operation until a Certificate of Compliance has been issued by the Board of Health.

Signed Garry Beard Date 10/18/2010

SIGN & DATE

Inspections _____

No. _____ FEE _____

COMMONWEALTH OF MASSACHUSETTS

Board of Health, _____, *MA.*

CERTIFICATE OF COMPLIANCE

Description of Work: ❑ **Individual Component(s)** ❑ **Complete System**

The undersigned hereby certify that the Sewage Disposal System; Constructed ( ), Repaired ( ), Upgraded ( ), Abandoned ( )

by: _____

at _____

has been installed in accordance with the provisions of 310 CMR 15.00 (Title 5) and the approved design plans/as-built plans relating to application No. _____, dated _____. Approved Design Flow _____(gpd)

Installer _____

Designer: _____ Inspector: _____ Date: _____

The issuance of this permit shall not be construed as a guarantee that the system will function as designed.

No. _____ FEE _____

COMMONWEALTH OF MASSACHUSETTS

Board of Health, _____, *MA.*

DISPOSAL SYSTEM CONSTRUCTION PERMIT

Permission is hereby granted to; Construct( ) Repair( ) Upgrade( ) Abandon( ) an individual sewage disposal system at _____ as described in the application for Disposal System Construction Permit No. _____, dated _____.

Provided: Construction shall be completed within three years of the date of this permit. All local conditions must be met.

Form 1255 Rev. 5/96 A.M. Sutkin Co. Charlestown, MA

Date _____ Board of Health _____

COLD SPRING ENVIRONMENTAL CONSULTANTS, INC.

ALAN E. WEISS, M.S., R.S., L.S.P.
Licensed Site Professional
Registered Sanitarian
Hydrogeologist
President

•Wetland Consults
•Soil and Water Testing
•21E Site Investigations
•Percolation Tests and
•Septic Designs
•Title 5 Inspections

50 Old Enfield Rd.
Belchertown, MA 01007
(413) 323-5957 & 323-4916 (FAX)
aeweiss@charter.net

Date: 9/23/10

Commonwealth of Massachusetts
Amherst, Massachusetts

Soil Suitability Assessment for On-site Sewage Disposal

Performed By: A. Weiss
Witnessed By: G. Courtmanche
Date: 9/23/2010

Location Address or Lot # 1236 Bay Rd. MAP. 30B / LOT 18. Adding Bedrooms New Construction ☒ Repair ☒	Owner's Name, Address, and Telephone # Gary & Drew Beard 1236 Bay Rd. Amherst, MA 01002 256-6002

Office Review

Published Soil Survey Available: No ☐ Yes ☒

Year Published Publication Scale Soil Map Unit

Drainage Class Soil Limitations

Surficial Geologic Report Available: No ☒ Yes ☐

Year Published Publication Scale

Geologic Material (Map Unit)

Landform

Flood Insurance Rate Map:

Above 500 year flood boundary No ☐ Yes ☒

Within 500 year flood boundary No ☒ Yes ☐

Within 100 year flood boundary No ☒ Yes ☐

Wetland Area:

National Wetland Inventory Map (map unit)

Wetlands Conservancy Program Map (map unit)

Current Water Resource Conditions (USGS): Month

Range: Above Normal ☐ Normal ☒ Below Normal ☒

Other References Reviewed: _____

Location Address or Lot No. 1236 Bay Rd.

COMMONWEALTH OF MASSACHUSETTS

Amherst, Massachusetts

Percolation Test*

Date: 9/23/2010 Time: 9 AM

Observation Hole #	P1	P2
Depth of Perc	46"	44"
Start Pre-soak	9:08	9:08
End Pre-soak	9:11	9:26
Time at 12"	9:13	9:26
Time at 9"	9:14	9:31
Time at 6"	9:19	9:39
Time (9"-6")	<2	8
Rate Min./Inch	<2	3 MIN/IN

* Minimum of 1 percolation test must be performed in both the primary area AND reserve area.

Site Passed ☑ Site Failed ☐

Performed By: A. Weiss

Witnessed By: L. Courtmanche

Comments:

DEP APPROVED FORM - 12/07/95

Location Address or Lot No. 1236 Bay Rd

On-site Review

Deep Hole Number 1+2 → 3+4 Date: 9/23/2010 Time: _____ Weather Sun 60°

Location (identify on site plan) _____

Land Use Res:d. / Slope (%) 2 Surface Stones few

Vegetation Mixed decid.

Landform Terraced.

Position on landscape (sketch on the back)

Distances from:

Open Water Body 100'+ feet Drainage way 50'+ feet

Possible Wet Area 100'+ feet Property Line Sac. plow. feet

Drinking Water Well Taw 100'+ feet Other _____

DEEP OBSERVATION HOLE LOG*

	Depth from Surface (inches)	Soil Horizon	Soil Texture (USDA)	Soil Color (Munsell)	Soil Mottling	Other (Structure, Stones, Boulders, Consistency, % Gravel)
1	0-6"	A	FSL	10YR 3/3		- friable.
	6-38"	Bw	LS	10YR 5/6	NOT	- friable
	38"-120"	C.	LS/S	10YR 5/4	OBS	C. SAND + F SAND inter-layered
2	0 4"	A	FSL	↓	↓	
	4"-46"	B	LS			↓
	46"-120"	C,	LS/S			F. Sand well Sorted
3	0-14"	A	FSL			
+	14"-46"	Bc	LS			
4	46"-120"	C	S	↓	↓	F. Sand, well Sorted

* MINIMUM OF 2 HOLES REQUIRED AT EVERY PROPOSED DISPOSAL AREA

Parent Material (geologic) Lacustine beach Depth to Bedrock: 120"+

Depth to Groundwater: Standing Water in the Hole: NOT Weeping from Pit Face: Not.

Estimated Seasonal High Ground Water: 120" + (est.)

Location Address or Lot No. 1236 BAY RD. / Amherst.

Determination for Seasonal High Water Table

Method Used:

- ☐ Depth observed standing in observation hole ..... inches
- ☐ Depth weeping from side of observation hole ..... inches
- ☒ Depth to soil mottles 120" inches effective
- ☐ Ground water adjustment ..... feet

Index Well Number ..... Reading Date ..... Index well level

Adjustment factor ..... Adjusted ground water level .....

Depth of Naturally Occurring Pervious Material

Does at least four feet of naturally occurring pervious material exist in all areas observed throughout the area proposed for the soil absorption system? yes

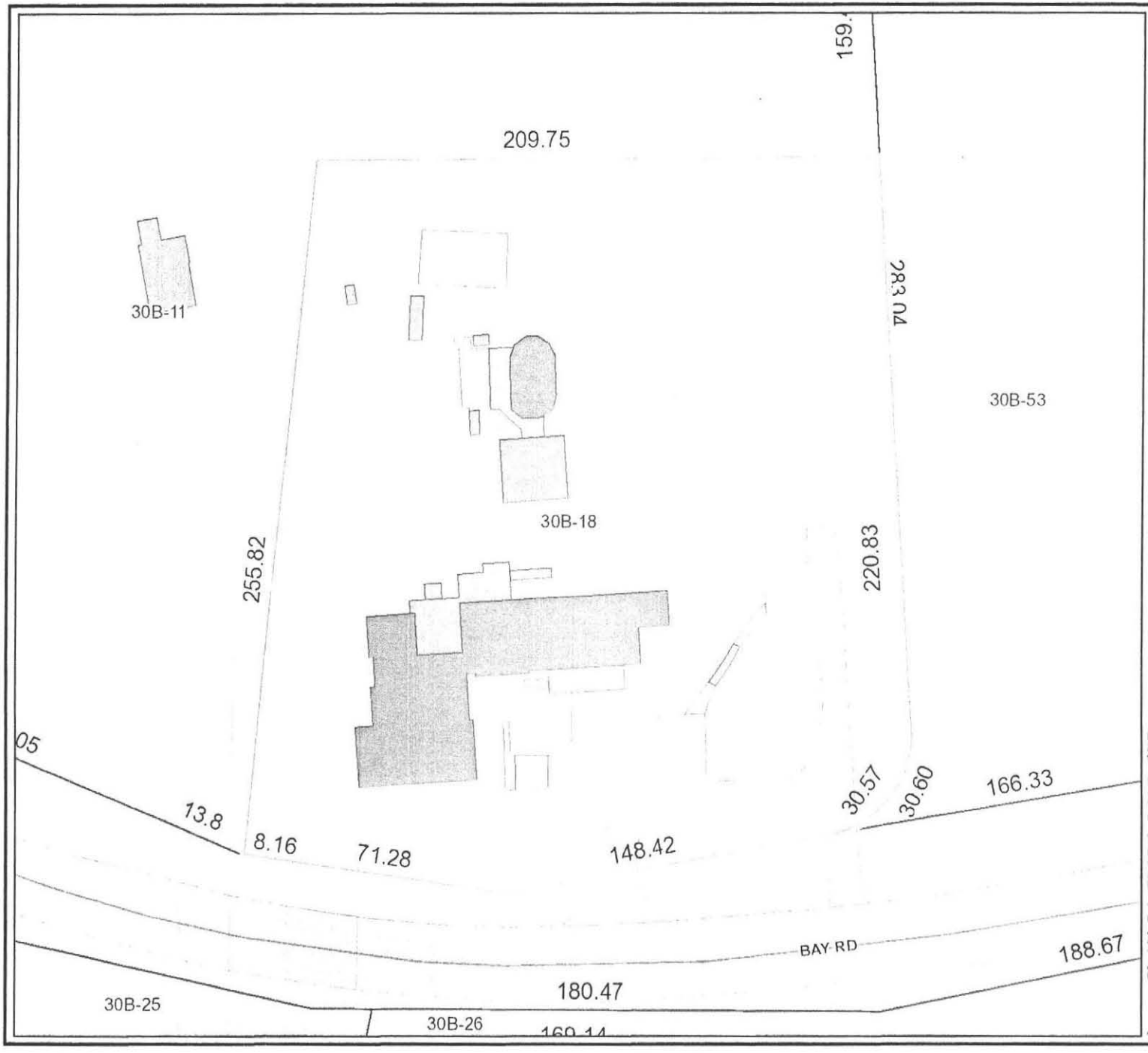
If not, what is the depth of naturally occurring pervious material? _____

Certification

I certify that on 6/95 (date) I have passed the soil evaluator examination approved by the Department of Environmental Protection and that the above analysis was performed by me consistent with the required training, expertise and experience described in 310 CMR 15.017.

Signature _____ Date 9/23/2010

COMMONWEALTH OF MASSACHUSETTS
ALAN C. WEISS
REG. #933
REGISTERED SANITARIAN



Amherst, Massachusetts
Amherst Public GIS Viewer
Founded 1759

Property Map
- Property Lines
  - Property Line
  - Hydrographic Propert
  - Right of Way Line
  - Town Boundary
- Other Property Lines
  - Former Property Line
  - Subdivision Lot Line
- Easements

Basemap
- Trails
- Rail Lines
- Structures
  - Building
  - Foundation or in const
  - Outbuilding or Miscell
  - Deck, Porch, Stairs or
  - Mobile home, Trailer
  - Swimming Pool
  - Building Ruins
  - Water storage tank
- Rivers and Streams
  - Streams
  - Major Culverts
  - Hydro Connector
  - Headwalls, Floodwalls
- Landcover
  - Brush and scrub vege
  - Tree and forest veget
  - Cultivated field
  - Gravel pile
  - Quarry
  - Misc Impervious Surfa
- Parking
  - Parking Paved
  - Parking Unpaved
- Driveways
  - Driveway Paved
  - Driveway Unpaved
- Sidewalks
- Transportation
  - Paved street polygons
  - Unpaved street polyg
- Bridges
  - Bridge decking and str
  - Foot Bridge
  - Rail Bridge

Horizontal Datum: MA Stateplane Coordinate System, Zone 4151, Datum NAD83, Feet
Vertical Datum: NAVD88, Feet

Planimetric & topographic basemap features compiled at 1"=40' scale from April, 2009 Aerial Photography. Parcels compiled to match the basemap; revisions are ongoing.

The information depicted on this map is for planning purposes only. It may not be adequate for legal boundary definition, regulatory interpretation, or property conveyance purposes. Utility structures and underground utility locations are approximate and require field verification.

1" = 50 ft

Amherst GIS Viewer October 15, 2010

CONSTRUCTION DETAIL

Element	Cd.	Ch.	Description
Style	10		Family Duplex
Model	01		Residential
Grade	26		Grade = 130%
Stories	2		2 Stories
Occupancy	2		
Exterior Wall 1	20		Brick/Masonry
Exterior Wall 2	25		Vinyl Siding
Roof Structure	03		Gable/Hip
Roof Cover	03		Asph/F Gls/Cmp
Interior Wall 1	03		Plaster/SkimC
Interior Wall 2	05		Drywall/Sheet
Interior Flr 1	12		Hardwood
Interior Flr 2			
Heat Fuel	02		Oil
Heat Type	06		Steam
AC Type	01		None
Total Bedrooms	06		6 Bedrooms
Total Bthrms	2		
Total Half Baths	0		
Total Xtra Fixtrs			
Total Rooms	10		10 Rooms
Bath Style	02		Average
Kitchen Style	02		Modern

CONSTRUCTION DETAIL (CONTINUED)

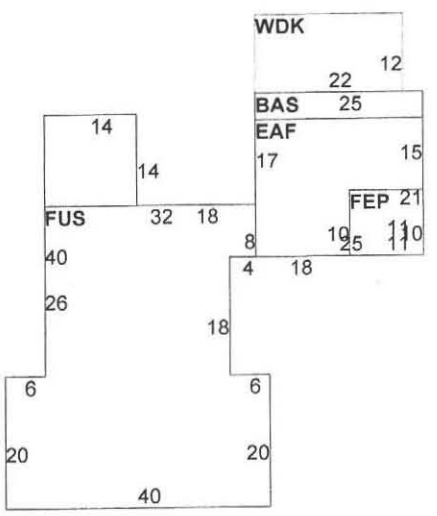
Element	Cd.	Ch.	Description
Foundation			

MIXED USE

Code	Description	Percentage
1040	TWO FAMILY MDL-01	100

COST/MARKET VALUATION

Adj. Base Rate:	116.30
Section. RCN:	493,801
Net Other Adj:	0.00
Replace Cost	493,801
AYB	1770
EYB	1983
Dep Code	GD
Remodel Rating	
Year Remodeled	
Dep %	25
Functional Obslnc	0
External Obslnc	0
Cost Trend Factor	1
Condition	
% Complete	
Overall % Cond	75
Apprais Val	370,400
Dep % Ovr	0
Dep Ovr Comment	
Misc Imp Ovr	0
Misc Imp Ovr Comment	
Cost to Cure Ovr	0
Cost to Cure Ovr Comment	

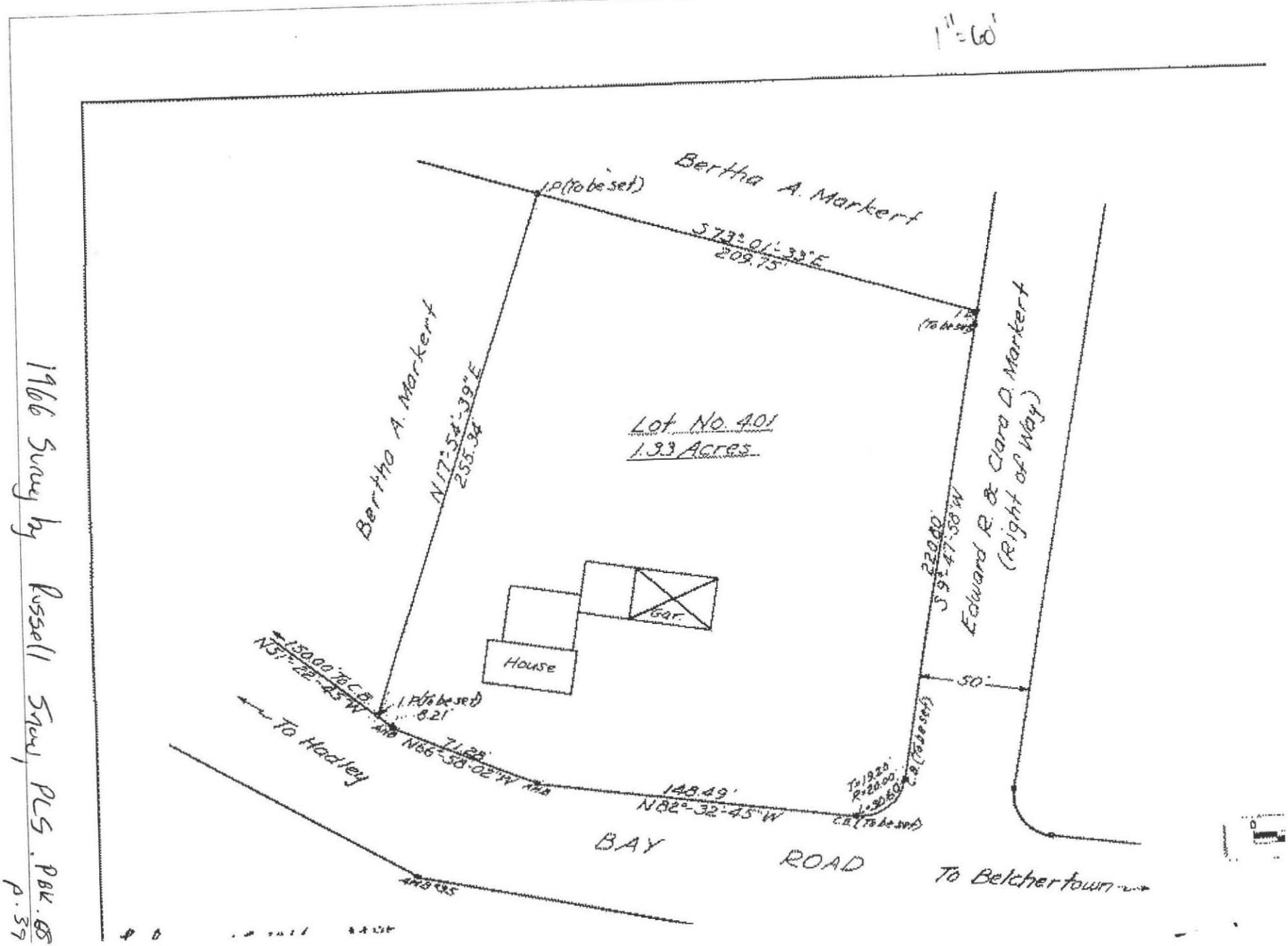


OB-OUTBUILDING & YARD ITEMS(L) / XF-BUILDING EXTRA FEATURES(B)

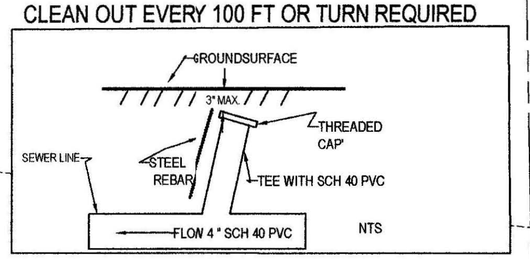
Code	Description	Sub	Sub Descript	L/B	Units	Unit Price	Yr	Gde	Dp Rt	Cnd	%Cnd	Apr Value
FGR1	GARAGE-AVE			L	320	20.00	1951		0		50	3,200
SHD1	SHED FRAME			L	100	8.00	1916		0		10	100
FGR5	W/LOFT GOOI			L	952	35.00	1951		0		50	16,700
FPL3	FIREPLACE 2 :			B	2	4,000.00	1983		1		100	6,000

BUILDING SUB-AREA SUMMARY SECTION

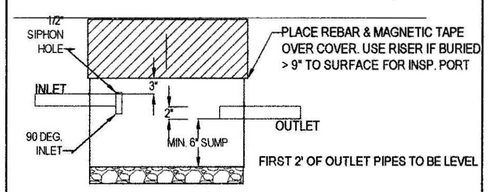
Code	Description	Living Area	Gross Area	Eff. Area	Unit Cost	Undeprec. Value
BAS	First Floor	2,271	2,271	2,271	116.30	264,113
EAF	Attic, Expansion, Finished	184	525	184	40.76	21,399
FEP	Porch, Enclosed, Finished	0	110	77	81.41	8,955
FUS	Upper Story, Finished	1,404	1,560	1,404	104.67	163,282
UBM	Basement, Unfinished	0	1,420	284	23.26	33,029
WDK	Deck, Wood	0	264	26	11.45	3,024
	Ttl. Gross Liv/Lease Area:	3,859	6,150	4,246		493,801


1" = 60'
Bertha A. Markert
1.0 (To be set)
S 73°-01'-33" E
209.75'
Bertha A. Markert
N 17°-54'-39" E
255.34'
Lot No. 401
1.33 Acres
GAR.
House
S 9°-47'-58" W
220.00'
Edward R. & Clara D. Markert
(Right of Way)
50'
150.00' To C.B.
N 31°-22'-45" W
1.0 (To be set)
8.21'
To Hadley
71.28'
N 66°-58'-02" W
148.49'
N 82°-32'-45" W
T=19.20
R=20.00
L=36.50
C.B. (To be set)
BAY
ROAD
To Belchertown
1966 Survey by Russell Snow, PLS. PBK. 66 P. 37

CLEAN OUT EVERY 100 FT OR TURN REQUIRED



TYPICAL D.BOX (WATERTIGHT)



- PLACE ON STABLE 6" BASE OF 3/4" TO 1-1/2" D.W. STONE
- USE CONCRETE BOX WITH 2" MINIMUM WALL THICKNESS.
- FILL WITH WATER FOR FINAL INSPECTION.
- USE LARGE STYLE D.BOX 6 outlet (Underground Supply)

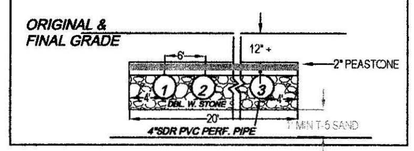
EFFLUENT DISPOSAL AREA

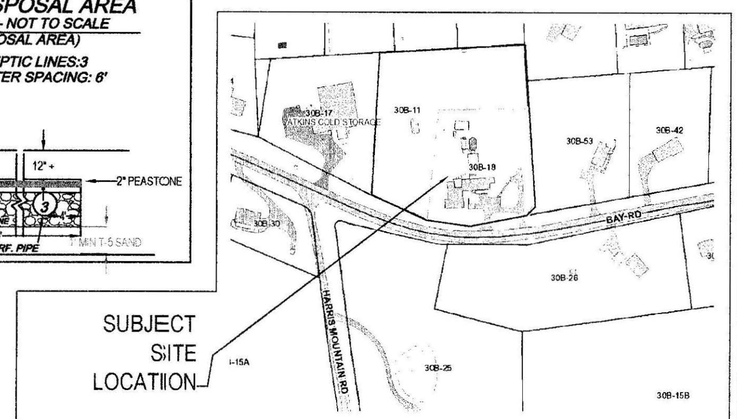
CROSS SECTION - NOT TO SCALE

(LEVEL DISPOSAL AREA)

NUMBER OF SEPTIC LINES:3

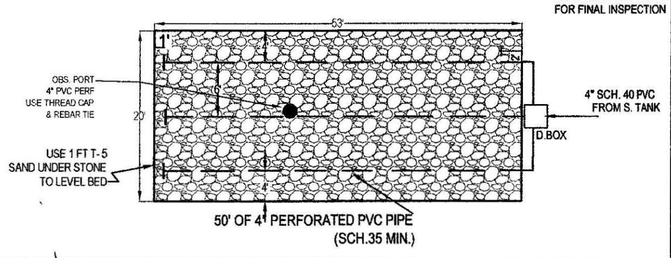
CENTER TO CENTER SPACING: 6'

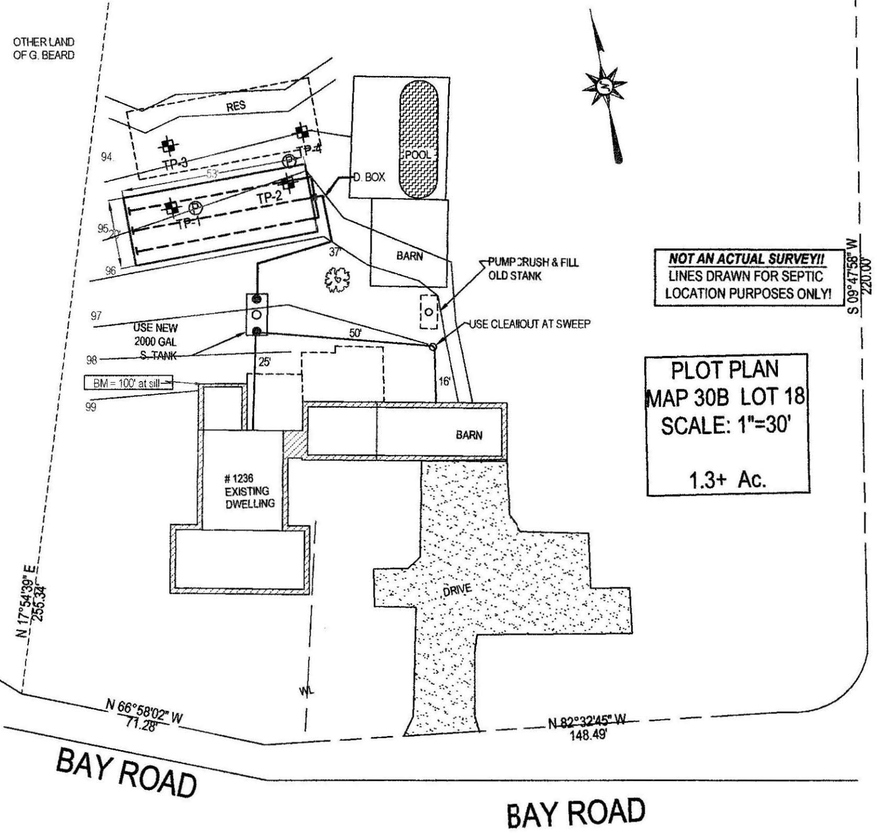




LEACH FIELD DETAIL (NTS)

-USE TEE ON INLET
-RUN SOLID PIPES LEVEL 2' OUT
-PLACE WATER IN D.BOX FOR FINAL INSPECTION





NOT AN ACTUAL SURVEY!!
LINES DRAWN FOR SEPTIC LOCATION PURPOSES ONLY!

S 09°47'58" W 220.00'

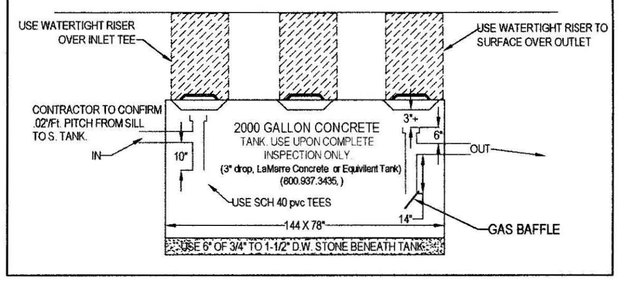
PLOT PLAN
MAP 30B LOT 18
SCALE: 1"=30'

1.3+ Ac.

GRAVITY SLOPE SEPTIC SYSTEM OPERATION AND MAINTENANCE NOTES FOR HOMEOWNER.

1.) HAVE TANK PUMPED EVERY 2 YEARS.
2.) MAINTAIN AREA OVER SEPTIC SYSTEM AS GRASSY OR SIMILAR GROUND COVER.
3.) DO NOT PLANT ANY TREES OR DEEP ROOTING SHRUBS WITHIN 10 FEET OF SYSTEM.
4.) USE ONLY LIQUID DETERGENTS & LOW FLOW WASHERS.
5.) WIPE ALL OIL AND GREASE FROM COOKWARE AND DISPOSE IN TRASH NOT SEPTIC.
6) All Toilets and Faucets must be confirmed to not be leaking, because one leaking fixture can fail a septic system In ONE DAY

TYPICAL 2000 GAL SEPTIC TANK (WATERTIGHT) OR EQUIVELANT.



DESIGN NOTES AND CALCULATIONS:

1.) 7 BEDROOM HOME X 110 GPD /BR = 770 GPD. REQUIRED,

-Use ONE FIELD: 20' WIDE X 53' LONG WITH 6" OF ¾" TO 1½" DBL WASHED STONE BELOW INVERT

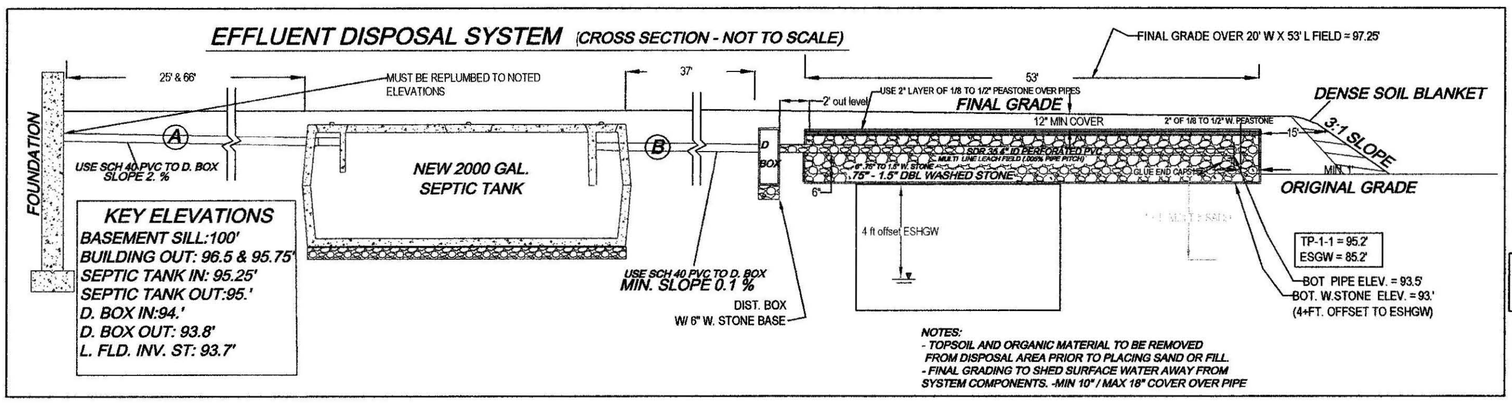
- BOTTOM AREA: 20' W X 53' L =1060SF.
- SIDE AREA: 0 SF.
- TOTAL AREA:1060 SIF X 0.74 GAL/SF = 784 GPD

3. GARBAGE DISPOSAL NOTT ALLOWED, ...
4. NO OTHER PRIVATE WELLS WITHIN 150 FEET OF SAS.
5. NO WETLANDS WITHIN 1010 FEET OF SAS
6. USE S. TANK AS NOTED &i MAINTAIN 0.02 PITCH FROM SILL TO S. TANK
   - INSTALL & INSPECT SCH.. 40 TEES / BAFFLES (10" INLET, 14" OUTLET),
   NOTE:
   - ALL COMPONENTS OF NIEW SYSTEM MUST BE MARKED WITH MAGNETIC TAPE. BE SURE TO MAINTAIN 3" CILEARANCE FROM TOP OF TEES TO BOTTOM OF TANK COVERS & BOXES.
7. USE LARGE STYLE (6 OUTLET) D.BOX ONLY.

7A ALL D. BOX OUTLET PIPES LEVEL FOR FIRST 2'. BOXES MUST HAVE 2"+ CONC. WALLS
   NOTE:
   - D. BOXES WITH MORE THAN 9" OF COVER SOIL MUST HAVE RISERS TO 6" OF SURFACE.

8. USE (.75"-1 1/2") STONE UJNDER TANK & D. BOX FOR 6" FOR STABLE BASE.
   -USE ONLY DBL. WASHED APPROVED(.75"-1.5") FOR PLACEMENT IN LEACH AREA.
9. USE PROPER SCH. 40 PVC: TEES AS SHOWN.
10. PRE & POST CONTOURS INOTED AS NECESSARY, RESERVE AS NOTED .
11. SLOPE CALCS (SEE CONTOURS). SUBGRADE INSP. REQ'D.
13. USE FIELD DUE TO TOPOGRAPHY AND SPACE OF LOT WITH RESPECT TO LOCATION AND ELEVATION OF RESIDENCE (310 CMR 15.240)
14. USE 2% MIN. SLOPE OVEIR SAS
   - CLEAR TOP AND SUB TO 46" MIN. AS NEEDED (INSPECTION REQUIRED).
   - CLEAR PAST BASE OF EI (MIN. 46") & SCARIFY UNDER BED PRIOR TO TITLE V SAND/STONE PLACEMENT.
   - EXCAVATE EXISTING LOAM, SUB AND ANY EXISTING DEBRIS, DIRTY FILL OR PRIOR SYSTEM IF PRESENT.
15. SOIL EVALUATION BY A. WEISS, RS. ON 09.23.2010 (G. COURTMANCHE, BOH AGENT).
   - DEPTH OF PERC. 46 & 44"
   - PERC RATE = 3 & <2 MIIN / IN,
   - CLASS 1 SOIL RATING
16. NO TREES WITHIN 10 FT.. OF NEW LEACH FIELD.
17. ENGINEER & TOWN (IF REQUIRED) TO INSPECT SUBGRADE, TOWN AND ENGINEER INSPECT AT FINAL.
18. BM=100.00 @ (SILL as noted), CONFIRM PROPER PIPE SLOPES
   - USE/INSPECT SCH. 40 PIPE FOR PIPE FROM HOUSE TO NEW OR EXISTING TANK
19. GRADE MULCH AND SEEID OVER SAS AS NOTED.
20. INSTALLATION IN LOW GROUNDWATER SEASON RECOMMENDED.
21. USE OBSERVATION PORTI NEAR CENTER OF STONE BED HAVE 4" PERFORATED, PVC INSPECTION PORTALS TO BOTTOM OF STONE BED, WITH RISER TO 3" OF SURFACE & THREADED CAP & MARK WITH RE-BAR

EFFLUENT DISPOSAL SYSTEM (CROSS SECTION - NOT TO SCALE)



KEY ELEVATIONS
BASEMENT SILL:100'
BUILDING OUT: 96.5 & 95.75'
SEPTIC TANK IN: 95.25'
SEPTIC TANK OUT:95.'
D. BOX IN:94.'
D. BOX OUT: 93.8'
L. FLD. INV. ST: 93.7'

NOTES:
- TOPSOIL AND ORGANIC MATERIAL TO BE REMOVED FROM DISPOSAL AREA PRIOR TO PLACING SAND OR FILL.
- FINAL GRADING TO SHED SURFACE WATER AWAY FROM SYSTEM COMPONENTS. -MIN 10" / MAX 18" COVER OVER PIPE

NOTE TO INSTALLER: A PLUMBER MUST INSPECT INSIDE PLUMBING AND FIX ANY LEAKING FAUCETS OR TOILETS IF FOUND TO BE LEAKING OR FLOWING IMPROPERLY INTO SEPTIC SYSTEM PRIOR TO FINAL INSPECTION

TEST PIT LOG:

SOIL EVALUATOR: A. WEISS, RS

DATE OF EVALUATION: 09.23.2010

TP-1 EFF. ELEV: 95.

DEPTH:	HORIZ:	TEXTURE:	COLOR (MUNSELL):	MATERIAL:
0-6"	A	FSL	10 YR 3.3	FRIABLE
6-38"	Bw	LS	10YR5.6	FRIABLE
38-120"	C1	LS/S	10 YR 5.4	C- SAND TO F. SAND
				INTERLAYERED
OXIDES:			NOT	OBSERVED
EHWT:			120" = EFF. 85.'	
STANDING H2O:			INOT OBSERVED	
WEEPING:			INOT OBSERVED	
BEDROCK:			120" -126+	

TP-2 EFF. ELEV: 95.2

DEPTH:	HORIZ:	TEXTURE:	COLOR (MUNSELL):	MATERIAL:
0-4"	A	FSL	10 YR 3.3	FRIABLE
4-46"	Bw	LS	10YR5.6	FRIABLE
46-120"	C1	LS/S	10 YR 5.4	F. SAND
				15% GRAV. & BOULDERS
OXIDES:			NOT	OBSERVED
EHWT:			120" EFF.	
STANDING H2O:			NOT OBSERVED	
WEEPING:			NOT OBSERVED	
BEDROCK:			120" -126+	

(RESERVE DEEP HOLES 3 & 4 ATTACHED)

SEPTIC SYSTEM PLAN FOR GARRY BEARD
1236 BAY ROAD
AMHERST, MA

Cold Spring Environmental Consultants Inc.
350 Old Enfield Road
Belchertown, MA. 01007
PHONE: (413) 323-5957
FAX: (413) 323-4916
e-Mail: AEWEISS@charter.net

DATE:	DRAWN BY:	REVISED:
10.14.2010	AEW	
SCALE: 1"=30'	CHECKED BY: AEW	DRAWING NUMBER: 110-3468-0923

COMMONWEALTH OF MASSACHUSETTS ALAN E. WEISS REGISTERED SANITARIAN

ATTENTION INSTALLER!!

CALL DIG SAFE BEFORE YOU DIG!! MASSACHUSETTS STATE LAW CHAPTER 82 SECTIONS 40 - 40E REQUIRE THAT PREMARKING OF GAS, ELECTRIC, WATER, TELEPHONE AND CABLE T.V. UTILITY LINES BE MADE A *MINIMUM* OF 72 HOURS PRIOR TO GROUND BREAK FOR ANY EXCAVATION.

NOTE: *INSTALLER MUST CONTACT ENGINEER/BD OF HEALTH 48 HOURS PRIOR TO SUBGRADE INSPECTION. INSTALLER MUST HAVE ALL BREAK OUT FILL ON SITE AND IN PLACE PRIOR TO SIGN OFF BY ENGINEER AT TIME OF FINAL INSPECTION OR APPROVAL WILL NOT BE GIVEN TO BACKFILL.*

0' 30' 60' 90'