

NOTE:
ALL SYSTEM COMPONENTS SHALL BE MARKED WITH MAGNETIC MARKING TAPE OR A COMPARABLE MEANS IN ORDER TO LOCATE THEM ONCE BURIED.
(310 CMR 15.221(12))

EXISTING SEPTIC TANK SHALL BE PUMPED, CRUSHED & REMOVED, REPLACE WITH NEW 1500 GAL SEPTIC TANK (MONOLITHIC)(H-20 LOAD)(2 COMPARTMENT)
W/ 6" STONE BENEATH 3/4"-1-1/2" CRUSHED STONE
9" MIN. COVER 36" MAX. COVER TANKS SHALL HAVE A MIN. COVER OF 9". TANKS BURIED GREATER THAN 9" SHALL BE EQUIPPED WITH RISERS ON ALL TANK TOP OPENINGS (310 CMR 15.228(1))
PROP. ACCESS MANHOLE TO FINISHED GRADE WITH WATERIGHT JOINTS. MANHOLES BROUGHT TO FINAL GRADE SHALL BE SECURED TO PREVENT UNAUTHORIZED ACCESS. (310 CMR 15.228(2))

PROP 1000 GALLON PUMP CHAMBER (MONOLITHIC) (H-20 LOAD)
W/ 6" STONE BENEATH 3/4"-1-1/2" CRUSHED STONE
9" MIN. COVER 36" MAX. COVER TANKS SHALL HAVE A MIN. COVER OF 9". TANKS BURIED GREATER THAN 9" SHALL BE EQUIPPED WITH RISERS ON ALL TANK TOP OPENINGS (310 CMR 15.228(1))
PROP. ACCESS MANHOLE TO FINISHED GRADE WITH WATERIGHT JOINTS. MANHOLES BROUGHT TO FINAL GRADE SHALL BE SECURED TO PREVENT UNAUTHORIZED ACCESS. (310 CMR 15.228(2))

PROPOSED
D-BOX/INLET TEE (6 OUTLET)
W/ 6" STONE BENEATH OUTLET LINES SHALL BE LEVEL FOR A MINIMUM OF THE FIRST TWO FEET OF THEIR LENGTH
3/4"-1-1/2" CRUSHED STONE
PROVIDE 9" OF COVER OVER D-BOX COVER IF EXCESS OF 9" THEN PROP A RISER TO WITHIN 6" OF FINISHED GRADE (310CMR SEC 15.233(3)(F))

PROP. PRESBY ENVIRO-SEPTIC PIPES
6 LINES - 40L - 12Ø (240" L.F. PIPE PROPOSED) (1.50' O.C. SPACING) (SAND BED SIZE: 10.5" W X 42.0")
PROP SYSTEM VENT/SCREENED (4"PVC SCH40)
LOW VENT - 3' MIN ABOVE FINAL GRADE. (SEE REMOTE VENT PIPING DETAIL)

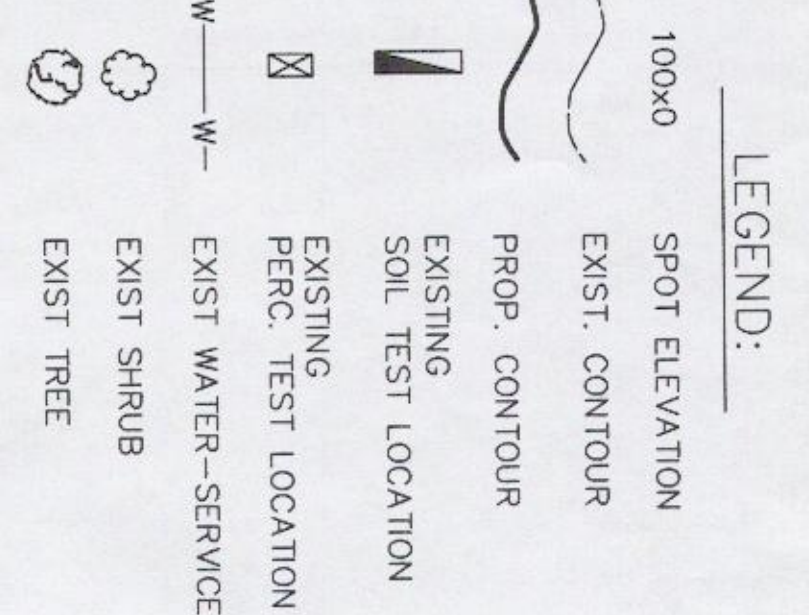
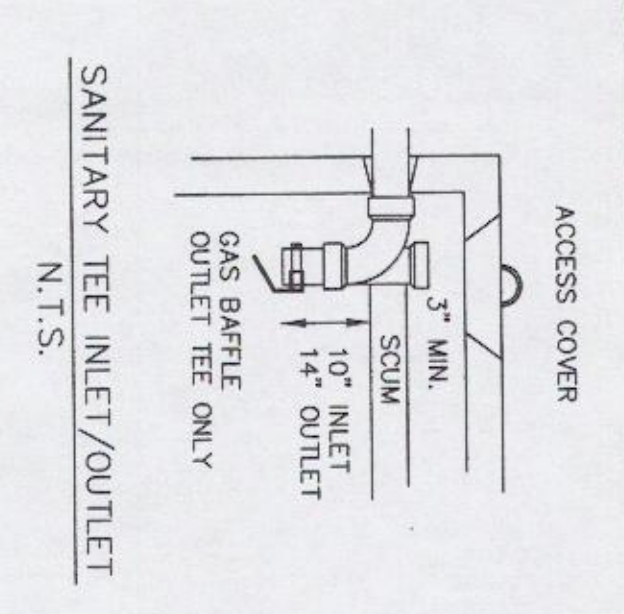
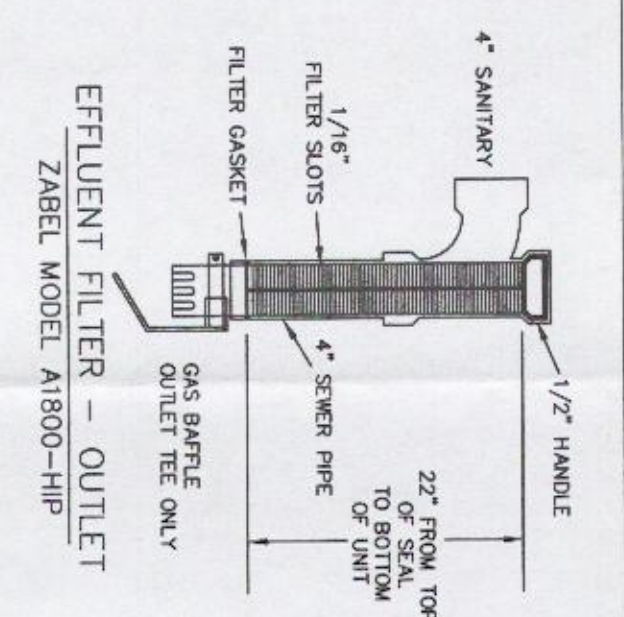
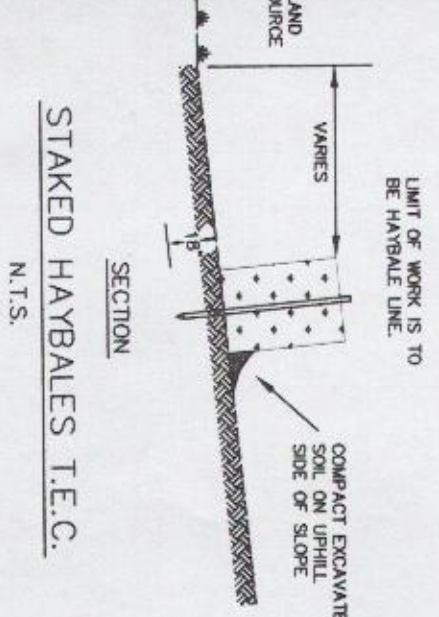
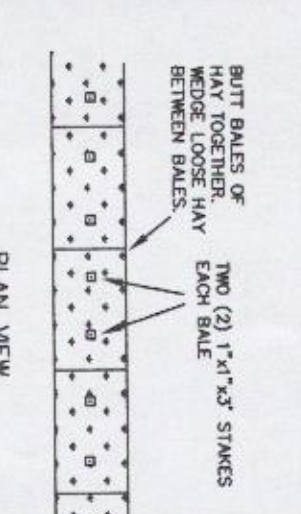
PROP. 4"PVC PERE SCH40 INSPECTION PORT TO BOTTOM OF SYS. SAND AND THREADED CAP WITHIN 3' OF FIN. GRADE. WRAP PIPE WITH PERMEABLE GEOTEXTILE FABRIC.
PROP SYSTEM VENT/SCREENED (4"PVC SCH40)
LOW VENT - 3' MIN ABOVE FINAL GRADE. (SEE REMOTE VENT PIPING DETAIL)

CERTIFICATIONS:
NO PART OF THIS SYSTEM IS WITHIN AN AREA NOTED BY D.E.P. AS AN ESTIMATED SETBACK AREA FOR THE PUBLIC AND SURFACE WATER SUPPLIES.
NO PART OF THIS SYSTEM IS WITHIN 200 FEET OF TRIBUTARIES TO PUBLIC AND SURFACE WATER SUPPLIES.
NO PART OF THIS SYSTEM IS WITHIN 100 FEET TO A PRIVATE WATER SUPPLY (WELL).
NO PART OF THIS SYSTEM IS WITHIN A NITROGEN SENSITIVE AREA AS Delineated BY LETTERS WITHIN 150' FEET OF A WETLAND RESOURCE AREA AS DENIED BY 310 CMR 10.0, THE WETLAND PROTECTION ACT, AND CONFORM TO THE REQUIREMENTS OF TITLE 5.
NOTE:
1. SEPTIC TANK AND PUMP CHAMBER SHALL BE MONOLITHIC AND TESTED FOR WATER-TIGHTNESS.

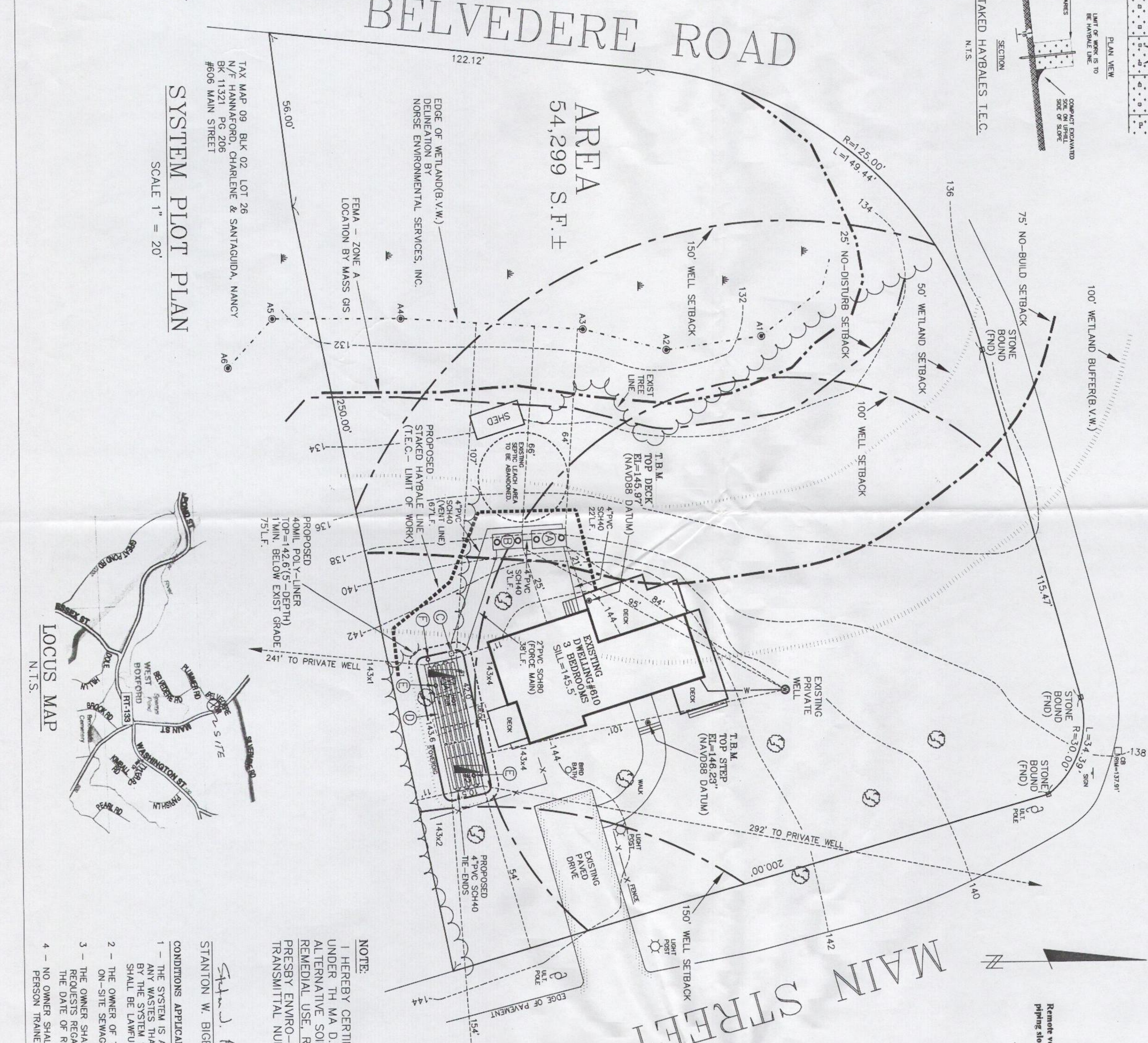
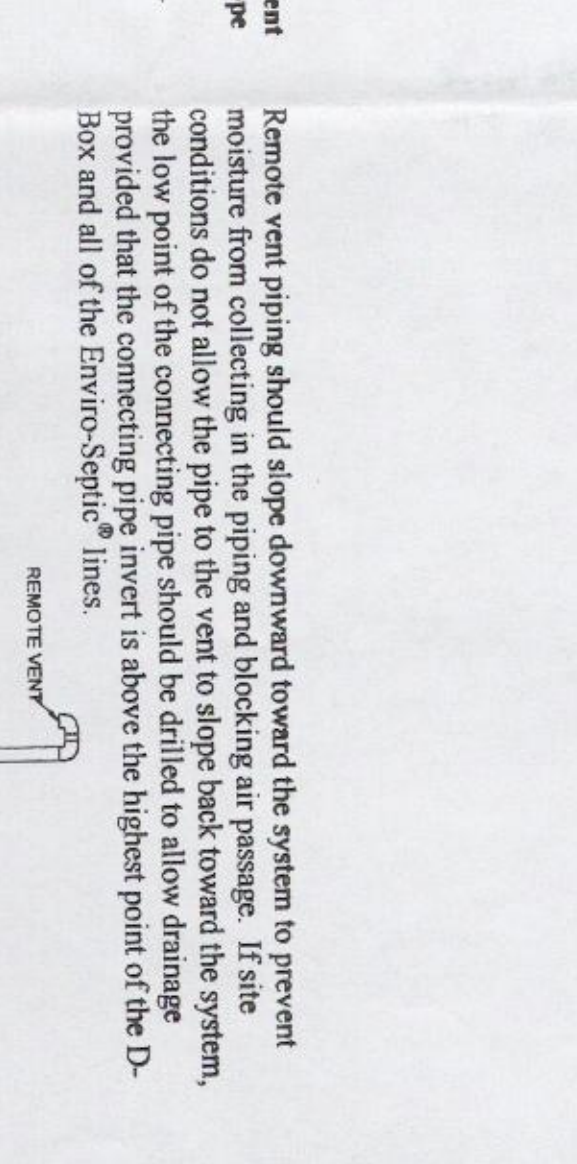
GENERAL NOTES
1. THE GENERAL CONTRACTOR IS RESPONSIBLE FOR HORIZONTAL AND VERTICAL LOCATION OF ALL SYSTEM COMPONENTS.
2. THIS PLAN IS TO SHOW THE DESIGN OF THE SURFACE SETBACK DISTANCE SYSTEM ONLY. THE SYSTEM IS DESIGNED FOR TYPICAL UNDER REGIONAL WATER SUPPLY.
3. SYSTEM IS DESIGNED TO ACCOMMODATE ONLY SANITARY SEWAGE ASSOCIATED WITH THE PROPOSED DWELLING.
4. THE SYSTEM SHALL BE SITED THROUGH BRACKISH FILLING AS REQUIRED BY THE LOCAL BOARD OF HEALTH.
5. BUILDING CODE AND BUILDING LOCATION ARE GRAPHIC ONLY. PROPERTY LINES NOT SHOWN. NO REPRESENTATION OR CERTIFICATION AS TO THE ACCURACY OF ANY INFORMATION IS MADE BY THE DESIGNER.
6. THE DESIGNER HAS CONDUCTED VISUAL INSPECTIONS OF THE PROPOSED SYSTEM AND HAS FOUND NO CONFLICTS WITH ANY EXISTING UTILITIES OR STRUCTURES.
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SEPTIC TANK NOTE:
A GAS Baffle SHALL BE INSTALLED AT THE FIRST TANK COMPARTMENT OUTLET TEE AND A FILTER SHALL BE INSTALLED AT THE LAST TANK COMPARTMENT OUTLET TEE.
ALL INLETS AND OUTLETS OF THE PROPOSED TANKS SHALL BE RUBBER BOOTED.

MIN. SEPTIC TANK CAPACITY REQUIRED:
495 x 200% = 990 GALLONS
PROPOSE 1500 GALLON SEPTIC TANK
PROPOSE 1000 GALLON PUMP CHAMBER



THE INTENT OF THIS PLAN IS TO PROVIDE FULL COMPLIANCE WITH TITLE 5 OF THE STATE ENVIRONMENTAL HEALTH CODE WHERE NOT POSSIBLE, AND NOTED IN THE FOLLOWING VARIANCE REQUESTS TO ACHIEVE MAXIMUM FEASIBLE COMPLIANCE.
VARIANCE REQUESTS:
1 - S.A.S. SETBACK FROM WETLAND RESOURCE AREA FROM 150' REQUIRED WITH A < 5 MPH PERCOLATION RATE TO 107' PROVIDED WITH 40ML POLY-LINER AND PRESBY ENVIRO TREATMENT SYSTEM. (LOCAL 201-9(E))
2 - S.A.S. SETBACK FROM PRIVATE WELL FROM 150' REQUIRED WITH A < 5 MPH PERCOLATION RATE TO 107' PROVIDED WITH 40ML POLY-LINER AND PRESBY ENVIRO TREATMENT SYSTEM. (LOCAL 201-9(G))
3 - S.A.S. SETBACK TO CELLAR WALL FROM 20' REQUIRED TO 11' PROVIDED WITH 40ML POLY-LINER. (310 CMR 15.211)



NOTE:
I HEREBY CERTIFY THAT THIS SYSTEM IS DESIGNED UNDER THE MA.D.E.P. STANDARD CONDITIONS FOR ALTERNATIVE SOIL ABSORPTION SYSTEMS FOR APPROVED REMEDIAL USE, REVISED MARCH 20, 2015.
PRESBY ENVIRO-SEPTIC WATER TREATMENT SYSTEM, TRANSMITTAL NUMBER: X233395 - REVISED SEPTEMBER 26, 2014.
CONDITIONS APPLICABLE TO THE SYSTEM OWNER:
1 - THE SYSTEM IS APPROVED FOR THE TREATMENT AND DISPOSAL OF SANITARY SEWAGE ONLY. ANY WASTES THAT ARE NON-SANITARY SEWAGE GENERATED OR USED AT THE FACILITY SERVED BY THE SYSTEM SHALL NOT BE INTRODUCED INTO THE ON-SITE SEWAGE DISPOSAL SYSTEM AND SHALL BE LAWFULLY DISPOSED OF.
2 - THE OWNER OF THE SYSTEM SHALL AT ALL TIMES PROPERLY OPERATE AND MAINTAIN THE ON-SITE SEWAGE DISPOSAL SYSTEM.
3 - THE OWNER SHALL FURNISH ANY INFORMATION THAT THE DEPARTMENT REQUESTS REGARDING THE OPERATION AND PERFORMANCE OF THE SYSTEM, WITHIN 21 DAYS OF THE DATE OF RECEIPT OF THAT REQUEST.
4 - NO OWNER SHALL AUTHORIZE OR ALLOW THE INSTALLATION OF THE SYSTEM OTHER THAN BY A PERSON TRAINED BY THE COMPANY TO INSTALL THE SYSTEM.

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SANITARY DISPOSAL SYSTEM UPGRADE PLAN (REPAIR)

OWNER: JAMES & EILEEN LYDON
TAX MAP 09 BLK 02 LOT 25
LOCUS DEED: BK 24037 PG 393

LOCATION: 610 MAIN STREET
BOXFORD, MA 01921

Professional Engineer Seal: ROBERT M. BRASSO, No. 42615, State of Massachusetts, License No. 11-21-10

Professional Engineer Seal: STANTON W. BIGELOW, No. 28881, State of Massachusetts, License No. 10-21-10

DATE: 10-21-2016

REVISIONS:

DRAWN: RMG
CHECKED: SWB
SCALE: 1"=20'
DATE: 10-21-2016
DWG No. 1000/REP/BOX/STANTON

SHEET No. 1 of 3