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))

NOTE:
1. SEPTIC TANK & PUMP CHAMBER SHALL BE MONOLITHIC AND TESTED FOR WATER-TIGHTNESS.

EXISTING SEPTIC TANK TO PUMPED, CRUSHED AND REMOVED FOR DISPOSAL OFFSITE.

Ⓐ AT LOCATION SHOWN, INSTALL NEW 1,500-GALLON, 2-COMPARTMENT TANK (MONOLITHIC) (H-20 LOAD) W/ 6" STONE BENEATH. PROVIDE PROPOSED ACCESS MANHOLES TO FINISHED GRADE WITH WATERTIGHT JOINTS. MANHOLES BROUGHT TO FINISHED GRADE SHALL BE SECURED TO PREVENT UNAUTHORIZED ACCESS. (310 CMR 15.228(2)).

Ⓑ PROPOSED 1,000-GALLON PUMP CHAMBER (MONOLITHIC)(H-20 LOAD) TO BE PROVIDED W/6" MIN. BED OF 3/4" 1-1/2" CRUSHED STONE BENEATH. TANK SHALL HAVE A MIN. COVER OF 9", AND MAX. COVER OF 36". TANKS BURIED GREATER THAN 9" SHALL BE PROVIDED WITH RISERS ON ALL TANK TOP OPENINGS (310 CMR 15.228(1)). TO BE INSTALLED WITH WATERTIGHT JOINTS AND COVERS SECURED TO PREVENT UNAUTHORIZED ACCESS.

Ⓒ PROPOSED DISTRIBUTION BOX (6-OUTLET) TO BE PROVIDED W/6" MIN. BED OF 3/4" - 1-1/2" CRUSHED STONE BENEATH. D-BOX TO HAVE A SOIL COVER IN EXCESS OF 9", AND THEREFORE SHALL BE EQUIPPED WITH A RISER TO WITHIN 6" OF FINISHED GRADE (310 CMR 15.232(3)(f)). OUTLET LINES SHALL BE LEVEL FOR A MINIMUM OF THE FIRST TWO FEET OF THEIR LENGTH. THERE SHALL BE ONE OUTLET FOR EACH CELL OF THE PROPOSED ENVIRO-SEPTIC PIPE SYSTEM (310 CMR 15.232(3)(c). AN INLET TEE EXTENDING TO ONE INCH (1") ABOVE THE OUTLET INVERT ELEVATION SHALL BE PROVIDED TO DISSIPATE THE VELOCITY OF THE INFLUENT TO THE D-BOX. (310 CMR 15.232(3)(a)).

Ⓓ PROPOSED PRESBY ENVIRO-SEPTIC PIPES, 8 LINES, EACH 25.0' L.F. LONG X 12" DIA. (200' L.F. PIPE TOTAL PROPOSED IN TWO (2) CELLS OF 100' L.F. EACH). SPACING OF LINES TO BE 1.75' O.C. (SAND BED SIZE: 27.0' O.L. X 15.25' W. = 416 S.F.).

Ⓔ PROPOSED 4" SCH. 40 PVC PIPE (PERFORATED) INSPECTION PORTS (2) TO BOTTOM OF SYSTEM SAND WITH THREADED CAP WITHIN 3" OF FIN. GRADE, WRAP PIPE WITH PERMEABLE GEOTEXTILE FABRIC AND PROVIDE ACCESS COVER AT FIN. GRADE. (PROVIDE TWO (2) EACH INSPECTION PORTS, ONE FOR EACH CELL OF PROPOSED ENVIRO-SEPTIC PIPE SYSTEM).

Ⓕ PROPOSED SYSTEM VENTS WITH SCREENED OUTLET PIPES (4" SCH. 40 PVC). LOW VENTS - 3' MIN. ABOVE FINAL GRADE LOCATED APPROX. 2' EAST OF NORTHEAST AND SOUTHEAST CORNERS OF PROPOSED ENVIRO-SEPTIC PIPE SYSTEM. HIGH VENT - 10' MIN. ABOVE LOW VENTS, CREATED BY RETURNING A 4" PVC VENT LINE BACK FROM DISTRIBUTION BOX TO SEPTIC TANK INLET OPENING OPPOSITE INLET PIPE, ALLOWING AIR CONNECTION TO BUILDING SEWER PLUMBING VENT STACK.

THE INTENT OF THIS PLAN IS TO PROVIDE FULL COMPLIANCE WITH TITLE 5 OF THE STATE ENVIRONMENTAL CODE, AS AMENDED BY THE BOARD OF HEALTH, EXCEPT WHERE NOT POSSIBLE, AND NOTED IN THE FOLLOWING VARIANCE REQUESTS TO ACHIEVE MAXIMUM FEASIBLE COMPLIANCE.

VARIANCE REQUESTS:

1 - REDUCTION IN HORIZONTAL SEPARATION FROM ABUTTOR'S POTABLE WATER SUPPLY WELL TO S.A.S. FROM 150' REQUIRED TO 138' PROVIDED W/PRESBY AND POLY-LINER PROVIDED. (BOXFORD BOARD OF HEALTH REGULATION 2-94, SEC. 3.D.)

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:
660 GPD x 200% = 1320 GALLONS
PROPOSE 1500 GALLON SEPTIC TANK
PROPOSE 1000 GALLON PUMP CHAMBER

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 SYSTEN AND SHALL BE LAWFULLY DISPOSED OF.

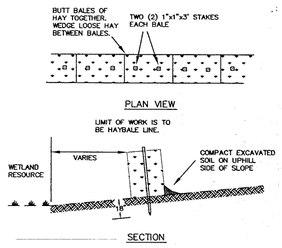
2 - THE OWNER OF THE SYSTEM SHALL AT ALL TIMES PROPERLY OPERATE AND MAINTAIN THE ON-SITE SEWAGE DISPOSAL SYSTEM.

3 - THE OWNER SHALL FURNISH THE DEPARTMENT 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.

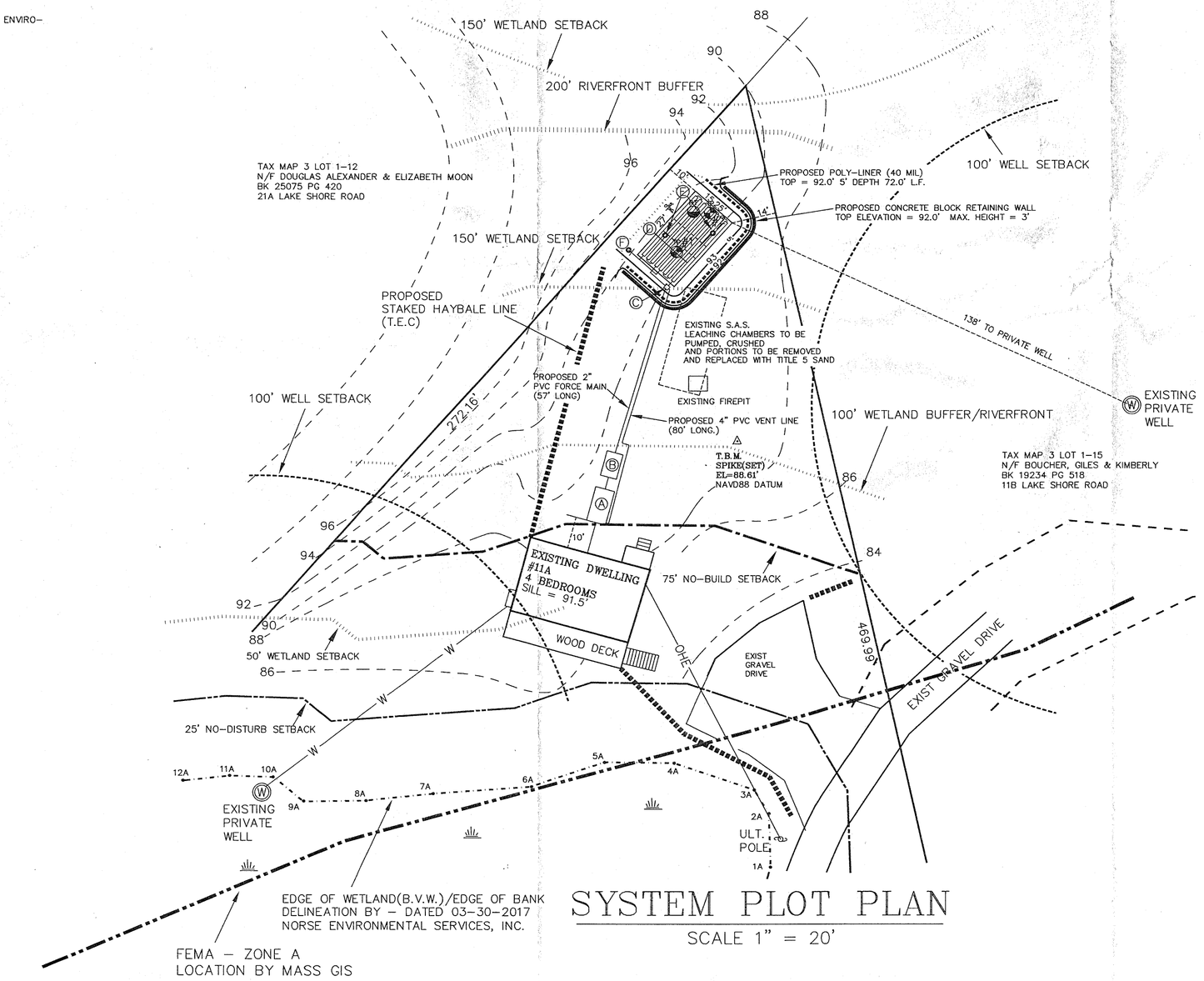
4 - NO OWNER SHALL AUTHORIZE OR ALLOW THE INSTALLATION OF THE SYSTEM OTHER THAN BY A PERSON TRAINED BY THE COMPANY TO INSTALL THE SYSTEM.

CERTIFICATIONS:

NO PART OF THIS SYSTEM IS WITHIN AN AREA NOTED BY D.E.P. AS AN ESTIMATED SETBACK AREA FOR TITLE 5.
NO PART OF THIS SYSTEM IS WITHIN 400 FEET OF PUBLIC AND SURFACE WATER SUPPLIES.
NO PART OF THIS SYSTEM IS WITHIN 200 FEET OF TRIBUTARIES TO PUBLIC AND SURFACE WATER SUPPLIES.
THIS PROPOSED SYSTEM IS NOT WITHIN 100' FEET OF A PRIVATE WATER SUPPLY (WELL).
NO PART OF THIS SYSTEM IS WITHIN A NITROGEN SENSITIVE AREA AS DELINEATED BY D.E.P..
THE S.A.S. IS NOT LOCATED WITHIN 150' FEET OF A WETLAND RESOURCE AREA AS DEFINED BY 310 CMR 10.0, THE WETLAND PROTECTION ACT.



STAKED HAYBALES T.E.C.
N.T.S.



SYSTEM PLOT PLAN
SCALE 1" = 20'

LEGEND:

100x0	SPOT ELEVATION
	EXIST. CONTOUR
	PROP. CONTOUR
TP	EXISTING SOIL TEST LOCATION
PT	EXISTING PERC. TEST LOCATION
-W-W-	WATER SERVICE
-G-G-	GAS SERVICE
-OHE-OHE-	OVERHEAD ELECTRIC SERVICE
	EXIST SHRUB
	EXIST TREE

REVISIONS:

SHEET No. 2 OF 2

DRAWN: RMG
CHECKED: SWB
SCALE: 1"=20'
DATE: 05-30-2017
DWG No:\MEAD\REP\BOX\11A LAKESHORE

COMMONWEALTH OF MASSACHUSETTS STANTON BIRNIE HEWINS NO. 52131 REGISTERED PROFESSIONAL ENGINEER 5/30/2017 DATE

COMMONWEALTH OF MASSACHUSETTS ROBERT M. GRASSO NO. 40215 REGISTERED PROFESSIONAL LAND SURVEYOR 5-30-17

OWNER: ARP INVESTMENTS, INC.
TAX MAP 3 LOT 1-13
LOCUS DEED: BK 35756 PG 324

LOCATION: 11A LAKE SHORE ROAD
BOXFORD, MA 01921

CONSERVATION SITE PLAN

Engineering Land Services, L.L.C.
P.O.BOX 41
WEST NEWBURY, MASS. 01985
TEL: 978-815-6744 & FAX: 978-462-6800
EMAIL: MASSPLSRG@AOL.COM