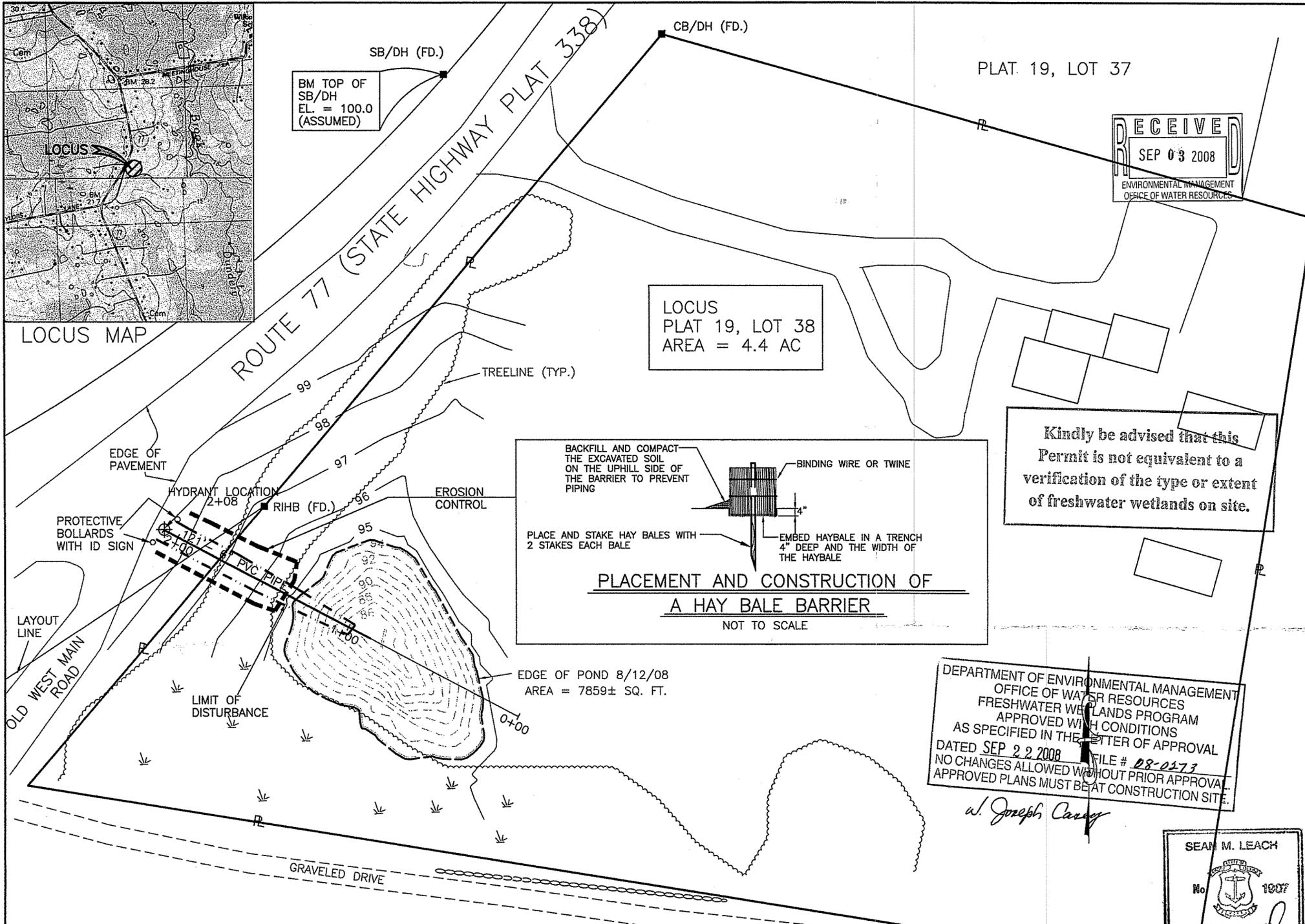


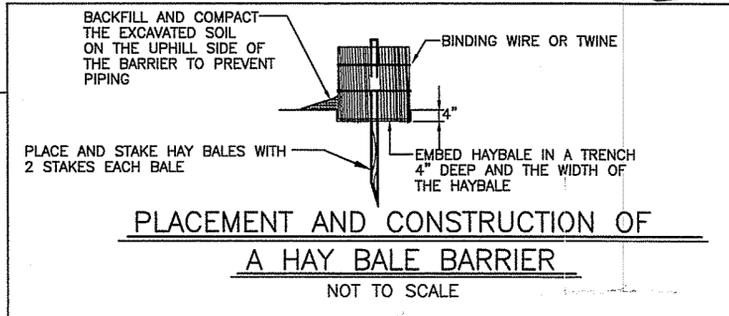
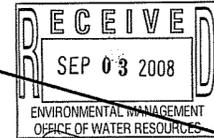
LOCUS MAP



BM TOP OF SB/DH EL. = 100.0 (ASSUMED)

PLAT 19, LOT 37

LOCUS PLAT 19, LOT 38 AREA = 4.4 AC



Kindly be advised that this Permit is not equivalent to a verification of the type or extent of freshwater wetlands on site.

DEPARTMENT OF ENVIRONMENTAL MANAGEMENT
OFFICE OF WATER RESOURCES
FRESHWATER WETLANDS PROGRAM
APPROVED WITH CONDITIONS AS SPECIFIED IN THE LETTER OF APPROVAL
DATED SEP 22 2008 FILE # 08-0473
NO CHANGES ALLOWED WITHOUT PRIOR APPROVAL.
APPROVED PLANS MUST BE AT CONSTRUCTION SITE.

W. Joseph Cassey

SEAN M. LEACH
No. 1907
PROFESSIONAL LAND SURVEYOR

STEVEN D. GIOIOSA
No. 5540
REGISTERED PROFESSIONAL ENGINEER

LEGEND			
	EXISTING POND CONTOUR		WATER SUPPLY WELL
	EXISTING CONTOUR		OVERHEAD WIRES
	PIPE INVERT ELEVATION		POWER/UTILITY POLE
	TEST HOLE		CULVERT
	TREE LINE		UNDERGROUND UTILITIES
	PROPERTY LINE		

ZONING INFORMATION	
ZONING DISTRICT:	RESIDENCE (R)
MINIMUM LOT AREA:	2 ACRES = 87,120 S.F.
MINIMUM FRONTAGE:	175 FEET
MAXIMUM LOT COVERAGE:	10%
MINIMUM SETBACK DISTANCES:	FRONT = 50 FEET REAR = 25 FEET SIDE = 25 FEET

GENERAL NOTES

OPERATIONS AND MAINTENANCE
LONG-TERM FUNCTIONING OF THE DRY HYDRANT SYSTEM MAY BE INSURED BY THE PERIODIC INSPECTION, AND REPAIR WHERE NECESSARY, OF THE COMPONENTS. THE FOLLOWING ITEMS ARE GUIDANCE FOR INSPECTION OF THE SYSTEM ON AN ANNUAL BASIS, OR AFTER EVERY USE BY FIRE PROTECTION PUMPER.

1. THE VISIBLE PIPE AND FITTINGS SHOULD BE INSPECTED FOR DAMAGE AND REPAIRED, IF NECESSARY. REMOVE AND CLEAN HYDRANT SCREEN IF NEEDED. PROTECT EXPOSED PORTIONS OF PLASTIC PIPE FROM DAMAGE DUE TO ULTRAVIOLET LIGHT BY PAINTING WITH AN EXTERIOR LATEX PAINT.
2. SOIL MATERIAL COVER OVER THE PIPELINE SHOULD BE REPLACED IF LOST DUE TO SETTLEMENT OR EROSION. THIS IS IMPORTANT FOR THE PROTECTION AND STABILITY OF THE PIPELINE AND STAND PIPE.
3. THE HYDRANT SHOULD BE TEST-PUMPED ONCE ANNUALLY TO DETERMINE IF THE CAPACITY OF THE HYDRANT IS REDUCED BELOW THE DESIGN LEVEL. IF REDUCED, THE CAUSE MUST BE DETERMINED AND CORRECTED. THIS MAY INCLUDE REPLACEMENT OF THE INTAKE SCREEN, AND/OR PORTIONS OF THE PIPELINE. BACK-FLUSHING THE SYSTEM MAY HELP REMOVE ANY BLOCKAGE. HOWEVER, CAUTION SHOULD BE EXERCISED AS HIGH PRESSURES MAY DAMAGE THE SYSTEM. USE GRAVITY FLOW OR PRESSURES LESS THAN 50 PSI (3.45 MPA) FOR BACK-FLUSHING.
4. THE INTAKE AREA SHOULD BE INSPECTED AND GRAVEL FILTER OR SUPPORT POSTS REPLACED AS NECESSARY.
5. VEGETATION AND SURFACE PROTECTION AROUND THE HYDRANT SHALL BE MAINTAINED FOR EASE OF USE DURING EMERGENCY CONDITIONS. THE ACCESS ROAD SHALL ALSO BE INSPECTED AND MAINTAINED AS NECESSARY TO KEEP THE SITE IN AN EROSION-FREE CONDITION AND PROVIDE CONTINUOUS ALL-WEATHER ACCESS.

EXCAVATION
TRENCHES FOR PLASTIC PIPELINES SHALL BE FREE OF ROCKS AND OTHER SHARP-EDGED MATERIALS. PIPE SHALL NOT BE LAID ON ROCK UNLESS SPECIAL PROTECTIVE MEASURES ARE INSTALLED, SUCH AS EXCAVATING THE TRENCH ONE (1) FOOT DEEPER THAN REQUIRED AND BACK-FILLING WITH CLAY OR OTHER SUITABLE SOIL. CONSTRUCTION OPERATIONS SHALL BE CARRIED OUT IN SUCH A MANNER AND SEQUENCE THAT SOIL EROSION WILL BE MINIMIZED. ALL DISTURBED AREAS SHALL BE GRADED SMOOTH AND FREE DRAINING AND BLENDED WITH THE SURROUNDING GROUND PRIOR TO THE SEEDING OPERATION.
AREAS DISTURBED BY CONSTRUCTION SHALL BE STABILIZED BY THE ESTABLISHMENT OF VEGETATION. LIME AND FERTILIZER SHALL BE SPREAD AT THE RATE SHOWN ON THE DRAWINGS AND SHALL BE BAKED OR TILLED INTO THE SOIL TO A DEPTH OF 2 INCHES (5 CM) TO PREPARE A SEEDBED. SEED AND MULCH SHALL BE SPREAD AT THE RATE SHOWN ON THE DRAWINGS. TEMPORARY MULCH SHALL BE USED WHEN CLIMATIC OR OTHER CONDITIONS DO NOT READILY PERMIT ESTABLISHMENT OR PERMANENT VEGETATION.

BACKFILLING
ALL BACKFILLING SHALL BE COMPLETED BEFORE THE LINE IS PLACED IN SERVICE. THE TRENCH SHALL BE KEPT FREE OF STANDING WATER TO ALLOW FOR PROPER PLACEMENT AND COMPACTION OF THE BACKFILL.
FOR PLASTIC PIPE, THE INITIAL BACKFILL SHALL BE TYPE 1 OR 2 AS FOLLOWS;
TYPE 1 - THE PIPE WILL BE EMBEDDED IN THE FINE GRAINED SOIL BACKFILL (CL, ML, OR SM SOIL) FREE FROM ROCKS OR OTHER SHARP-EDGED MATERIAL THAT WOULD DAMAGE THE PIPE AND HAND COMPACTED IN 6-INCH (15CM) LIFTS TO ONE PIPE DIAMETER ABOVE THE TOP OF THE PIPE. COMPACTION SHALL CONSIST OF FOUR PASSES OF THE COMPACTION EQUIPMENT OVER EACH LIFT.
TYPE 2 - THE PIPE SHALL BE EMBEDDED IN SOIL MATERIAL AS DESCRIBED IN TYPE 1 ABOVE EXCEPT THAT THE SOIL SHALL BE COMPACTED TO 95% OF STANDARD PROCTOR (ASTM D698 METHOD A) DENSITY WITH SOIL AT + 2% OF OPTIMUM MOISTURE CONTENT; OR THE PIPE WILL BE EMBEDDED IN A SAND/GRAVEL MATERIAL TO A DEPTH OF ONE PIPE DIAMETER ABOVE THE TOP OF THE PIPE. ACCEPTABLE SAND/GRAVEL MIXTURES ARE: ASTM C33 SAND, #6, #7, #8 OR #67 AGGREGATE AND SHALL BE HAND COMPACTED IN 6-INCH (15CM) LIFTS WITH FOUR PASSES OF VIBRATORY OR OTHER HAND OPERATED COMPACTION EQUIPMENT.

THE REMAINING TRENCH BACKFILL AND BACKFILL OF INSTALLATIONS WHERE STEEL PIPE IS USED SHALL BE SUCH THAT THE DENSITY OF THE BACKFILL SHALL BE AT LEAST EQUAL TO THE NATURAL DENSITY OF THE TRENCH SIDEWALLS. DEFORMATION OR DISPLACEMENT OF THE PIPE SHALL NOT OCCUR DURING BACKFILLING.
OVER EXCAVATION OF THE TRENCH BOTTOM SHALL BE BACKFILLED TO THE SAME REQUIREMENTS AS SPECIFIED FOR THE INITIAL BACKFILL AROUND THE PIPE.
THE SOIL MOISTURE CONTENT OF THE BACKFILL MATERIAL, FOR ALL CONDITIONS EXCEPT TYPE 2 INITIAL BACKFILL ABOVE, SHALL BE MOIST ENOUGH THAT A BALL CAN BE FORMED WHEN THE SOIL IS SQUEEZED IN THE HAND BUT NOT SO WET THAT WATER RUNS OUT OF THE BALL WHEN SQUEEZED.
BACKFILL OF PLASTIC PIPE SHALL BE INITIATED AFTER THE PIPE REACHES THE SAME TEMPERATURE AS THE WATER OR SOIL. THIS CAN BE DONE IN A NUMBER OF WAYS, SUCH AS FILLING THE PIPE WITH WATER OR BY LEAVING THE TRENCH OPEN OVERNIGHT BEFORE BACKFILLING, PROVIDING ADEQUATE TRENCH SAFETY PROTECTION IS INSTALLED.

PROPOSED DRY HYDRANT LOCATION

CLIENT: BILL MAKEPEACE
LOCATION: ASSESSORS PLAT 19 LOT 38
466 WEST MAIN ROAD
LITTLE COMPTON, RHODE ISLAND

ENGINEERING FIRM: SITEC, Inc.
Civil & Environmental Engineering
Land Use Planning
449 Faunce Corner Road
Dartmouth, MA 02745
Tel. - (508) 998-2125
Fax - (508) 998-7554

DATE: AUGUST 19, 2008 REVISED:

CONTACT PERSON: SEAN LEACH

ACAD NO. : LCRI-08-4294-HYD

