

NOTES & SPECIFICATIONS

THIS PLAN HAS BEEN PREPARED IN ACCORDANCE WITH THE RULES AND REGULATIONS OF 310 CMR 15 (TITLE V) OF THE COMMONWEALTH OF MASSACHUSETTS AND THOSE OF THE TOWN BOARD OF HEALTH.

THE REQUIRED INSPECTION SCHEDULE DURING THE PROCESS OF CONSTRUCTION SHALL BE ARRANGED BY THE CONTRACTOR WITH THE BOARD OF HEALTH & DESIGN ENGINEER PRIOR TO THE COMMENCEMENT OF CONSTRUCTION.

1500 GALLON SEPTIC TANK AND DISTRIBUTION BOX SHALL BE STANDARD DUTY DESIGN AS MANUFACTURED BY ROTONDO & SONS, INC. OR APPROVED EQUAL.

ALL PIPING SHALL BE 4" DIA. SCHD. 40 NSF PVC, WITH ALL JOINTS SEALED WATERTIGHT.

ALL STONE SHALL BE DOUBLE WASHED AND FREE OF IRONS, CLAY OR FINES AND SHALL BE SATISFACTORY TO THE TOWN BOARD OF HEALTH.

THIS SYSTEM IS NOT DESIGNED TO ACCOMMODATE A GARBAGE DISPOSAL OR OTHER HIGH WATER USE UNITS.

THE PROPOSED SEPTIC SYSTEM IS NOT LOCATED WITHIN THE CONE OF INFLUENCE OF ANY MUNICIPAL WELL NOR ARE THERE ANY PRIVATE WELLS LOCATED WITHIN 100 FEET (RADIAL) OF THE PROPOSED SYSTEM.

EXCAVATE ALL TOP, SUB AND ANY OTHER SOILS ENCOUNTERED DOWN TO THE BOTTOM OF EXCAVATION (SEE CROSS SECTION) FOR A HORIZONTAL DISTANCE OF 5' ON ALL SIDES OF THE PROPOSED SYSTEM. BACK FILL TO TOP OF STONE ELEVATION WITH SELECT ON SITE OR IMPORTED SOIL MATERIAL CONSISTING OF CLEAN GRANULAR SAND, FREE OF ORGANIC MATTER OR OTHER DELETERIOUS SUBSTANCES AND MEETING THE SIEVE SIZE REQUIREMENTS OF 310 CMR 15.255(3) & (5) [CONSTRUCTION IN FILL].

ELEVATIONS SHOWN ON THIS PLAN ARE BASED ON NGVD 29.

CONTRACTOR SHALL VERIFY EXISTING CONDITIONS AND NOTIFY THE ENGINEER OF ANY DISCREPANCIES PRIOR TO THE CONTINUATION OF CONSTRUCTION.

WATER TABLE FLUCTUATES ANNUALLY, NO WARRANTY OF A DRY BASEMENT IS EXPRESSED OR IMPLIED.

THE PROPOSED WORK DOES NOT LIE IN A CRITICAL FLOOD HAZARD ZONE.

THE LOT DOES NOT LIE IN AN OVERLAY DISTRICT FOR GROUNDWATER AQUIFER PROTECTION.

THE CONTRACTOR IS TO VERIFY THE BENCHMARK WITH THE SURVEYOR PRIOR TO CONSTRUCTION.

MAINTAIN 15' MINIMUM SEPARATION FROM WATER SERVICE TO PROPOSED SEPTIC COMPONENTS.

HOUSE DIMENSIONS, ELEVATION AND LOCATION ARE APPROXIMATE AND SUBJECT TO CHANGE, CONTRACTOR TO VERIFY PRIOR TO CONSTRUCTION.

THE LOT LIES IN A R-1 ZONING DISTRICT.
 FRONT YARD SETBACK: 35'
 SIDE YARD SETBACK: 15' + 5' STORY
 REAR YARD SETBACK: 25'

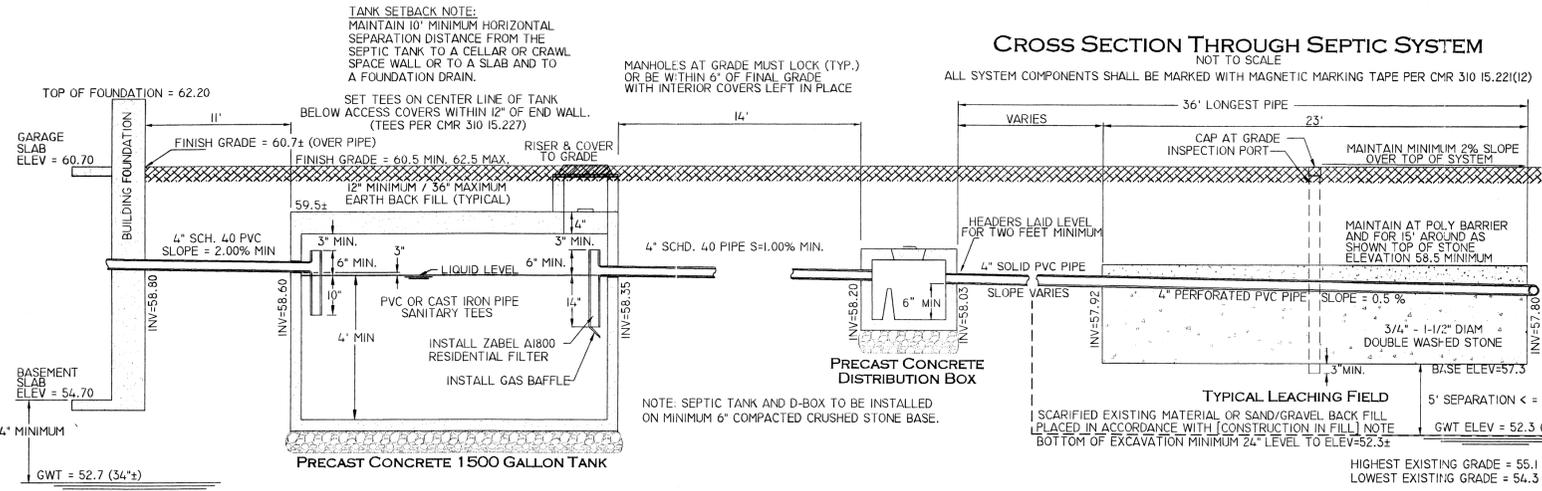
REFERENCE: DEFINITIVE SUBDIVISION PLAN FOR FALL RIVER AVENUE DEVELOPMENT PARTNERS, LLC, "BANNA ESTATES" TAUNTON AVENUE/PLEASANT STREET, SEEKONK, MA. DATED; AUGUST 2, 2007; REVISED; MAY 27, 2008. BY INSITE ENGINEERING SERVICES, LLC.

TIE INTO PROPOSED CONTOURS AND ELEVATIONS AS SHOWN IN THE ABOVE REFERENCE.

I CERTIFY THAT THE PROPOSED WATER SERVICE SHOWN ON THIS PLAN IS IN ACCORDANCE WITH THE RULES AND REGULATIONS OF THE SEEKONK WATER DISTRICT. THE CONTRACTOR IS TO COORDINATE THE WATER SERVICE TIE IN WITH THE WATER AUTHORITY AND INSTALL THE WATER SERVICE WITH MAGNETIC MARKING TAPE ABOVE THE ENTIRE LENGTH OF THE WATER SERVICE.

WETLAND LINES ESTABLISHED AND APPROVED UNDER THE ORDER OF RESOURCE AREA DELINEATION SE 09-615 FILLED AS DEED BOOK 1700 PAGE 87.

THE 25-FOOT BUFFER ZONE DELINEATES THE LIMITS OF DISTURBANCE AND ALL FUTURE ACTIVITIES THE 50-FOOT WETLAND BUFFER DELINEATES THE LIMITS OF ALL STRUCTURES AS STATED WITHIN THE TOWN OF SEEKONK CONSERVATION COMMISSION REGULATIONS AMENDED MARCH, 2003



DEEP OBSERVATION HOLE 13A

DEPTH	HORIZON	TEXTURE	COLOR	MOTTLING	OTHER
0-12"	A	SL	10 YR 3/2	-	-
12-18"	B	LS	10 YR 5/4	-	-
18-120"	C	S	2.5 Y 6/4	34" 7.5 YR 5/8	-

OBSERVED GROUND WATER: NO STANDING, NO WEEPING DATE: 1-04-07
 ESTIMATED HIGH GROUND WATER: 34" BY: M. FARIA
 PERC. RATE @ 30" <= 2 MPI WITNESS: H. CHENEVERT

DEEP OBSERVATION HOLE 13B

DEPTH	HORIZON	TEXTURE	COLOR	MOTTLING	OTHER
0-12"	A	SL	10 YR 3/2	-	-
12-18"	B	LS	10 YR 5/4	-	-
18-120"	C	S	2.5 Y 6/4	34" 7.5 YR 5/8	-

OBSERVED GROUND WATER: NO STANDING, NO WEEPING DATE: 1-04-07
 ESTIMATED HIGH GROUND WATER: 34" BY: M. FARIA
 NO PERC. TEST PERFORMED WITNESS: H. CHENEVERT

DEEP OBSERVATION HOLE 13C

DEPTH	HORIZON	TEXTURE	COLOR	MOTTLING	OTHER
0-8"	A	SL	10 YR 3/2	-	-
8-14"	B	LS	10 YR 5/4	-	-
14-120"	C	S	2.5 Y 6/4	38" 7.5 YR 5/8	-

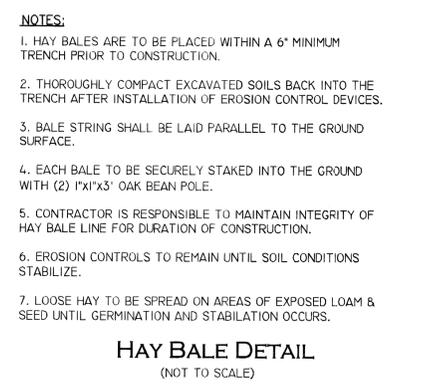
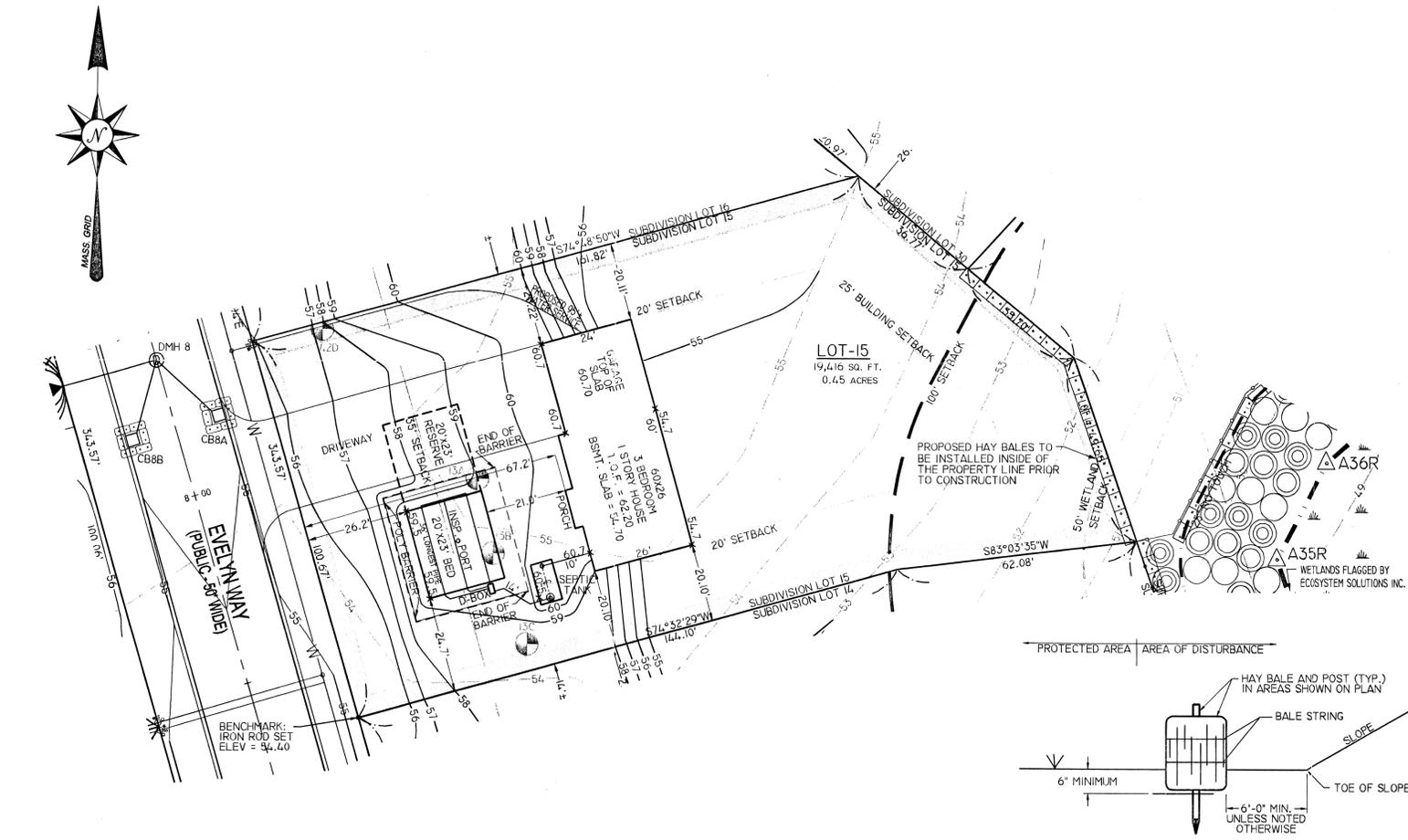
OBSERVED GROUND WATER: NO STANDING, NO WEEPING DATE: 1-04-07
 ESTIMATED HIGH GROUND WATER: 38" BY: M. FARIA
 PERC. RATE @ 28" <= 2 MPI WITNESS: H. CHENEVERT

DEEP OBSERVATION HOLE 42D

DEPTH	HORIZON	TEXTURE	COLOR	MOTTLING	OTHER
0-12"	A	SL	10 YR 3/2	-	-
12-14"	B	LS	10 YR 5/4	-	-
14-120"	C	S	2.5 Y 6/4	40" 7.5 YR 5/8	-

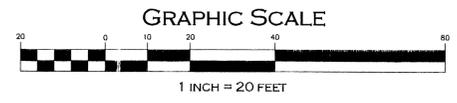
OBSERVED GROUND WATER: NO STANDING, NO WEEPING DATE: 1-4-07
 ESTIMATED HIGH GROUND WATER: 40" BY: M. FARIA
 NO PERC. TEST PERFORMED WITNESS: H. CHENEVERT

SOIL EVALUATION & PERC RESULTS



- NOTES:**
- HAY BALES ARE TO BE PLACED WITHIN A 6" MINIMUM TRENCH PRIOR TO CONSTRUCTION.
 - THOROUGHLY COMPACT EXCAVATED SOILS BACK INTO THE TRENCH AFTER INSTALLATION OF EROSION CONTROL DEVICES.
 - BALE STRING SHALL BE LAID PARALLEL TO THE GROUND SURFACE.
 - EACH BALE TO BE SECURELY STAKED INTO THE GROUND WITH (2) 1"x1"x5" OAK BEAN POLE.
 - CONTRACTOR IS RESPONSIBLE TO MAINTAIN INTEGRITY OF HAY BALE LINE FOR DURATION OF CONSTRUCTION.
 - EROSION CONTROLS TO REMAIN UNTIL SOIL CONDITIONS STABILIZE.
 - LOOSE HAY TO BE SPREAD ON AREAS OF EXPOSED LOAM & SEED UNTIL GERMINATION AND STABILIZATION OCCURS.

- LEGEND**
- SOIL TEST PIT
- EXISTING CONTOUR
- PROPOSED CONTOUR
- PROPOSED SPOT ELEVATION
- COLOR LEGEND**
- WETLANDS LINE
- 25' WETLAND BUFFER ZONE
- 50' WETLAND BUFFER ZONE
- 100' WETLAND BUFFER ZONE



DESIGN CALCULATIONS

AVERAGE DAILY SEWAGE FLOW (GALLONS PER DAY)
 3 BEDROOM DWELLING @ 110 GPD PER BEDROOM = 330 GPD

SEPTIC TANK SIZING (GALLONS)
 200% AVERAGE DAILY FLOW = 2 (330) = 660 GALLONS
 3 BEDROOM HOME REQUIRES 1500 GALLON TANK (MINIMUM).

DESIGN SOIL TYPE AND PERCOLATION RATE:
 SOIL CLASS: 1 (SAND)
 PERC RATE IN 13A & 13C WAS < 2 MPI
 DESIGN FOR 5 MPI PER TITLE V

REQUIRED MINIMUM LEACHING AREA:
 REQUIRED AREA = 330 GPD / 0.74 GPD / SF = 446 SF MINIMUM
 LEACHING FIELD BED: 20' x 23' = 460 SF
 RESERVE AREA: 20' x 23' = 460 SF

PAID
 JUN 29 2010
 SEEKONK CONSERVATION

5864-690

SEPTIC SYSTEM DESIGN & NOI PLAN

"BANNA ESTATES" (RECORD LOT 15)
 #15 EVELYN WAY, SEEKONK, MA 02771
 AP 20 LOT 624

Applicant: ALMEIDA CONTRACTING CORP.
 #6 BRAYTON WOODS DRIVE, REHOBOTH, MA 02769

JOB # 06-050-15 SCALE: 1"=20' DESIGNED BY: MSF DATE: APRIL 22, 2010

REVISD:

PROFESSIONAL ENGINEERS AND LAND SURVEYORS
 INSITE PROFESSIONAL, SUITE 1
 1539 FALL RIVER AVENUE
 SEEKONK, MA 02771
 PHONE: (508) 336-4500
 FAX: (508) 336-4588

INSITE Engineering Services, LLC

SHEET 1 OF 1