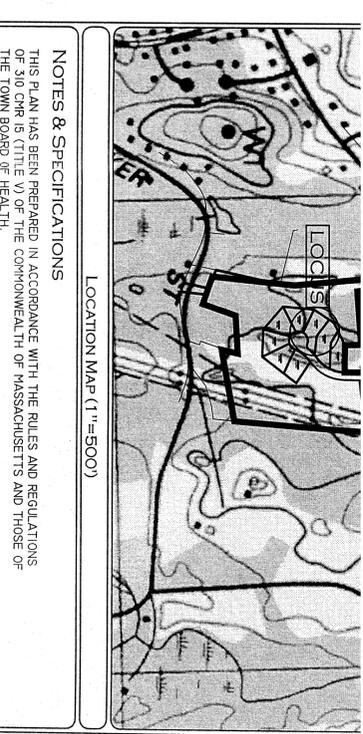


NOTE: SEPTIC TANK AND D-BOX TO BE INSTALLED ON MINIMUM 6" COMPACTED CRUSHED STONE BASE.

SCARIFIED EXISTING MATERIAL OR SAND/GRAVEL BACK FILL PLACED IN ACCORDANCE WITH CONSTRUCTION IN FILL NOTE BOTTOM OF EXCAVATION MINIMUM 60" TO BASE ELEV = 98.53

TP-OSD-5-1 EXISTING GRADE = 104.5 (63" GWL = 99.25)
 TP-OSD-5-2 EXISTING GRADE = 103.3 (57" GWL = 98.6)
 TP-OSD-5-3 EXISTING GRADE = 100.3 (84" GWL = 93.5)
 TP-OSD-5-4 EXISTING GRADE = 100.3 (66" GWL = 101.0) *DESIGN GWL*



NOTES & SPECIFICATIONS

THIS PLAN HAS BEEN PREPARED IN ACCORDANCE WITH THE RULES AND REGULATIONS OF 310 CMR 15.00 (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.

THE SEPTIC TANK AND DISTRIBUTION BOX SHALL BE STANDARD DUTY (H-10) OR HEAVY DUTY (H-20) IF LOCATED UNDER A DRIVEWAY.

ALL PIPING SHALL BE 4" DIA. SCH. 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 GARAGE 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. CONTRACTOR TO VERIFY PRIOR TO CONSTRUCTION.

EXCAVATE ALL TOP SOIL AND ANY OTHER SOILS ENCOUNTERED DOWN TO THE BOTTOM OF THE PROPOSED SYSTEM. BACK FILL TO TOP OF STONE LEACHING FIELD WITH SEELED ON SITE OR IMPORTED SOIL MATERIAL CONSISTING OF CLEAN GRANULAR SAND. SEE ORGANIC MATTER OR OTHER DETERIOROUS SUBSTANCES AND MEETING THE SIZE REQUIREMENTS OF 310 CMR 15.25(1) & (5) [CONSTRUCTION IN FILL].

ELEVATIONS SHOWN ON THIS PLAN ARE BASED ON AN ASSUMED DATUM.

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

WATER TABLE FLUCTUATES ANNUALLY, NO WARRANTY OF A DRY BASEMENT IS EXPRESSED OR IMPLIED. FOUNDATION DRAIN TO DAY LIGHT IS SUGGESTED FOR THIS SITE.

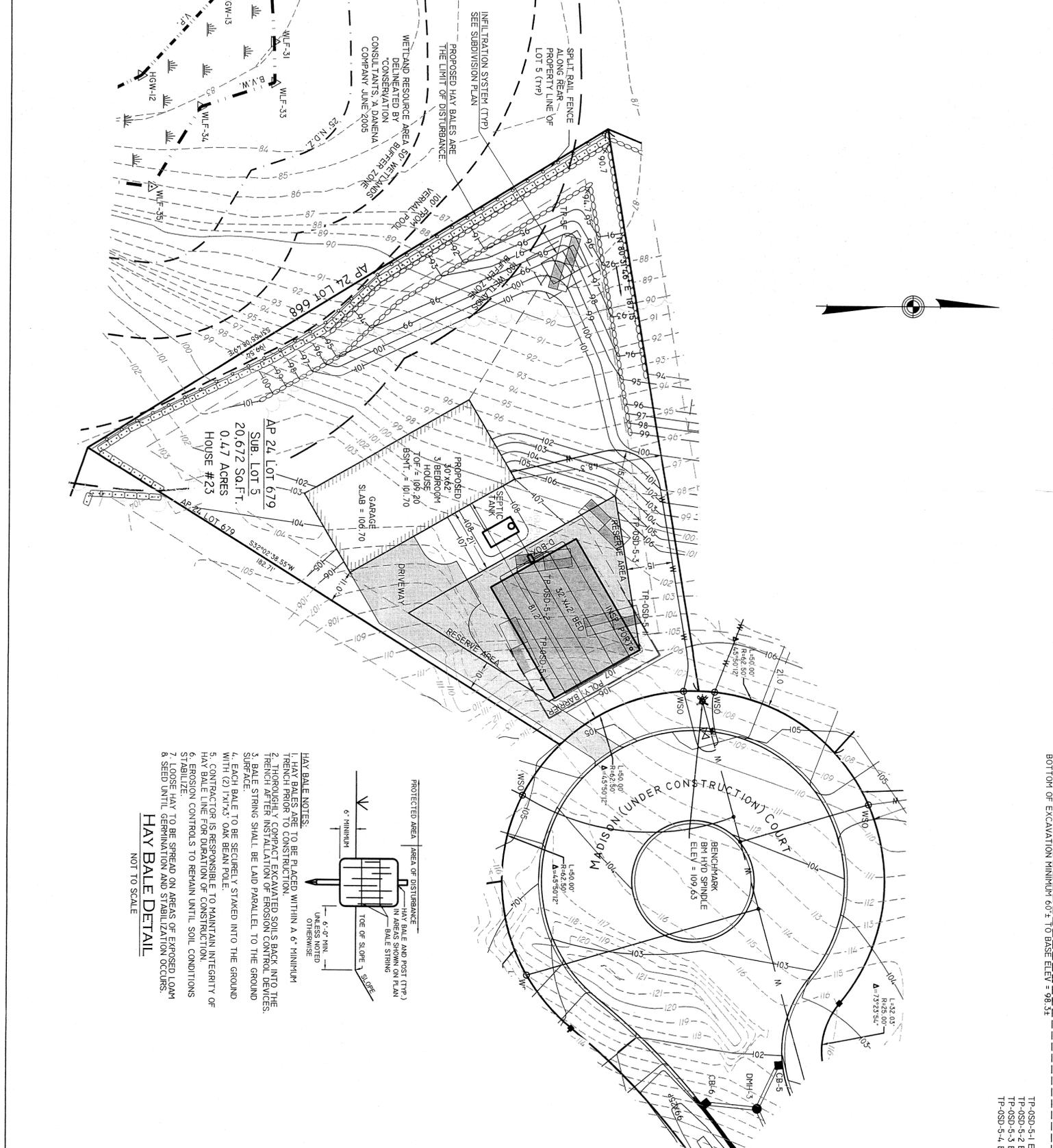
THE PROPOSED WORK DOES NOT LIE IN A CRITICAL FLOOD HAZARD ZONE.

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.

CONSERVATION SUBDIVISION ZONING/DIMENSIONAL REQUIREMENTS (PER 25.61)

FRONT YARD SETBACK: 20'
 SIDE YARD SETBACK: 10'
 REAR YARD SETBACK: 10'

I CERTIFY THAT THE PROPOSED WATER SERVICE SHOWN ON THIS PLAN IS IN ACCORDANCE WITH THE RULES AND REGULATIONS OF THE SEKONK 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. REFERENCE DEFINITIVE SUBDIVISION PLAN "MADISON ESTATES", DATE: JUNE 21, 2010, REVISED: DECEMBER 17, 2010 (FINAL APPROVAL), BY INSITE.



TP-OSD-5-1
 DEPTH HORIZON TEXTURE COLOR
 0-12" AO SL 10 YR S/L
 12-24" B SL 10 YR S/B
 24-36" C SL 10 YR S/B
 36-48" C SL 2.5 Y 6/2
 DID NOT OBSERVE GROUND WATER
 ESTIMATED HIGH GROUND WATER - 57"
 PERC. RATE @ 60" = 36 MPl
 WITNESS: BETH HALLAL

TP-OSD-5-2
 DEPTH HORIZON TEXTURE COLOR
 0-9" AO SL 10 YR S/L
 9-36" B SL 10 YR S/B
 36-100" C SL 2.5 Y 6/2
 DID NOT OBSERVE GROUND WATER
 ESTIMATED HIGH GROUND WATER - 63"
 PERC. RATE @ 60" = 36 MPl
 WITNESS: BETH HALLAL

TP-OSD-5-3
 DEPTH HORIZON TEXTURE COLOR
 0-9" AO SL 10 YR S/L
 9-36" B SL 10 YR S/B
 36-100" C SL 2.5 Y 6/2
 DID NOT OBSERVE GROUND WATER
 ESTIMATED HIGH GROUND WATER - 84"
 PERC. RATE @ 53" = 33 MPl
 WITNESS: BETH HALLAL

TP-OSD-5-4
 DEPTH HORIZON TEXTURE COLOR
 0-6" AO SL 10 YR S/L
 6-22" B SL 10 YR S/B
 22-84" C SL 2.5 Y 6/2
 DID NOT OBSERVE GROUND WATER
 ESTIMATED HIGH GROUND WATER - 66"
 PERC. RATE @ 53" = 33 MPl
 WITNESS: BETH HALLAL

TP - SF
 DEPTH HORIZON TEXTURE COLOR
 0-6" A SL 10 YR S/L
 6-20" B SL 10 YR S/B
 20-120" C SL 2.5 Y 4/3
 DID NOT OBSERVE GROUND WATER
 ESTIMATED HIGH GROUND WATER - 60"
 DATE: SEPTEMBER 16, 2013
 BY: PAUL D. CARLSON PE

LEGEND

TP-OSD-5-4

GRAPHIC SCALE
 1 INCH = 20 FEET

DESIGN CALCULATIONS

AVERAGE DAILY SEWAGE FLOW (GALLONS PER DAY)
 3 BEDROOM DWELLING @ 100 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 (MINIMUM)
 PERC. RATE IN TP-OSD-5-4 WAS 36 MPl & TP-OSD-5-3 WAS 33 MPl
 DESIGN FOR 40 MPl PER TITLE V

REQUIRED MINIMUM LEACHING AREA:
 REQUIRED AREA = 330 GPD / 0.25 GPD / SF = 1,320 SF MINIMUM
 LEACHING FIELD BER: 32' x 42' = 1,344 SF
 RESERVE AREA: 1,339 SF

"SEPTIC SYSTEM DESIGN AND RDA PLAN"
 "MADISON ESTATES"
 #23 MADISON COURT SEKONK, MASSACHUSETTS 02771
 ASSESSORS MAP 24, LOT 679, RECORD LOT 5
 APPLICANT: COSTA DEVELOPMENT, LLC
 65 EMLY WAY, SEKONK, MASSACHUSETTS 02771

PROFESSIONAL SEAL
 JOB # 09-0795
 SCALE 1" = 20'
 DESIGN BY MSF
 DATE: OCTOBER 17, 2013
 REVISED:

INSITE
 PROFESSIONAL ENGINEERS | LAND SURVEYORS
 1539 Fall River Avenue Seekonk, MA 02771
 Phone: (508) 336-4500 Fax: (508) 336-4558
 Web Address: IntelEngineers.com

SHEET 1 OF 1

1539 Fall River Avenue Seekonk, MA 02771
 Phone: (508) 336-4500 Fax: (508) 336-4558
 Web Address: IntelEngineers.com