

LOCUS
NOT TO SCALE

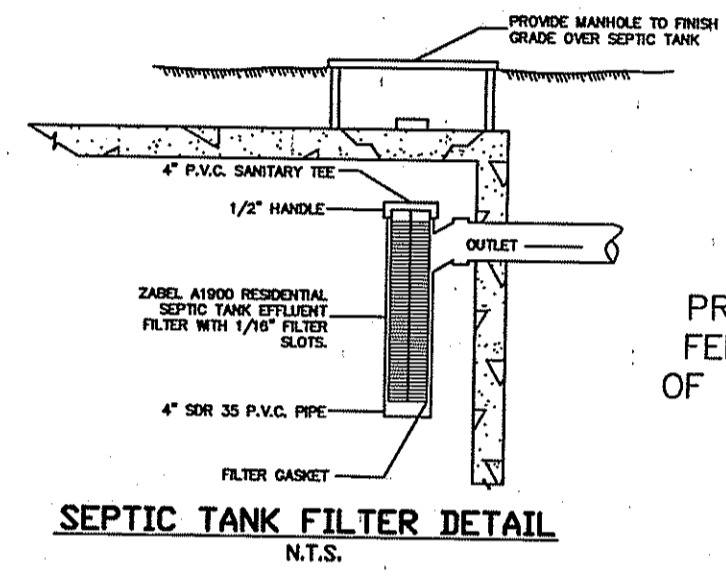
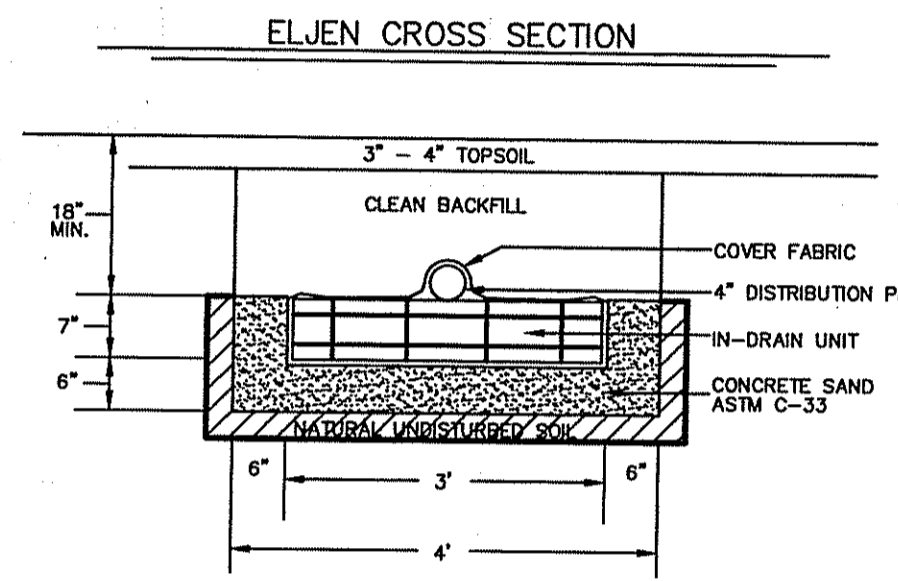
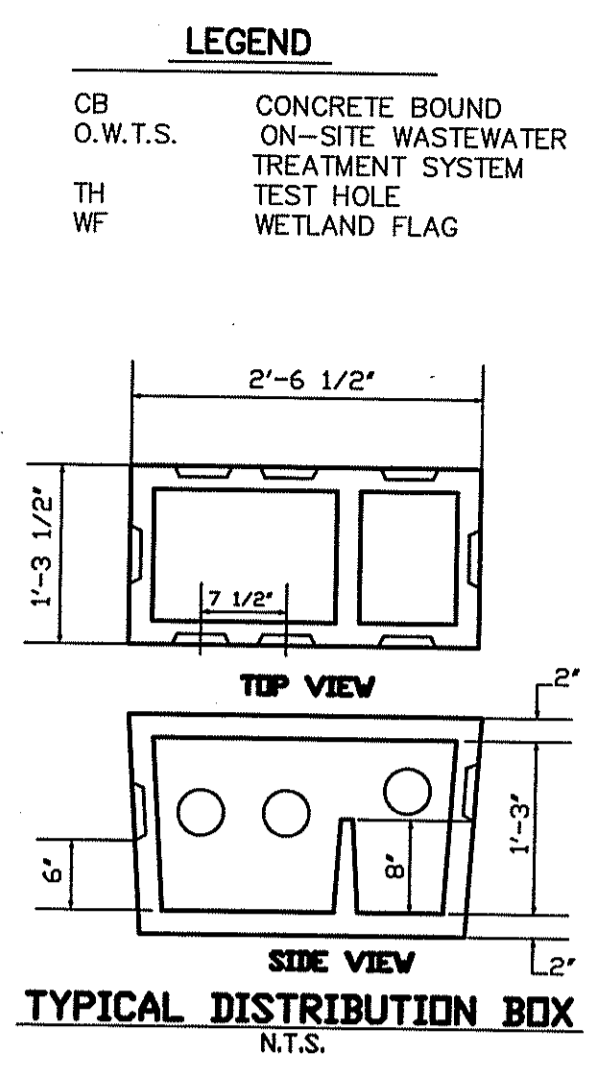
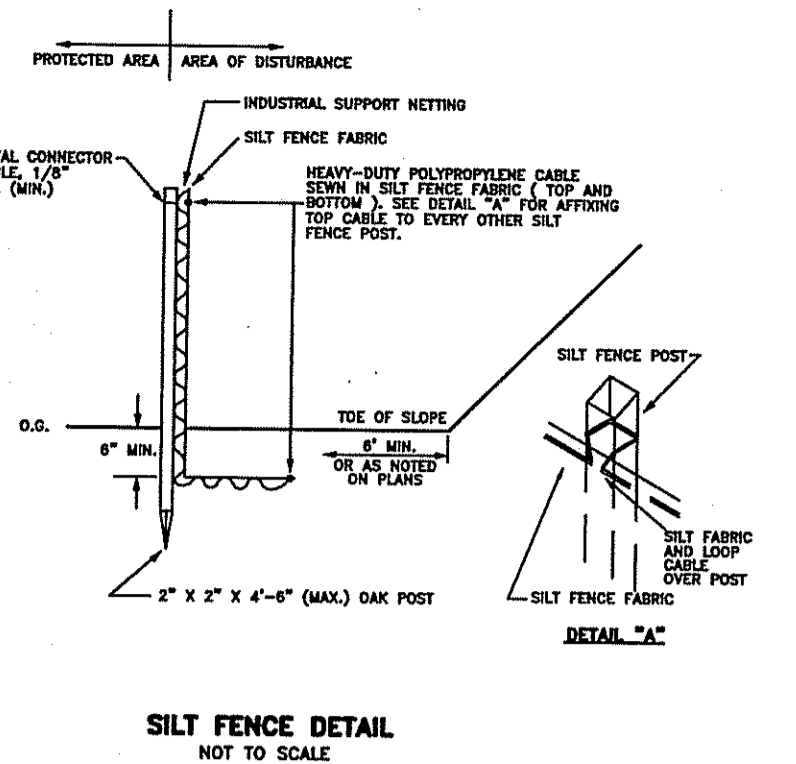
TEST HOLE DATA:
 DATE DUG - JULY 14, 2010
 TEST HOLE TH1 WATER TABLE DEPTH = 24' WATER TABLE ELEV. = 294.81
 TEST HOLE TH2 WATER TABLE DEPTH = 30' WATER TABLE ELEV. = 294.51
 TEST HOLE TH3 WATER TABLE DEPTH = 28' WATER TABLE ELEV. = 296.73

GROUND WATER TABLE DATA: #1008-0680
 WATER TABLE DETERMINED BY SOIL EVALUATION
 WATER TABLE ELEV. = 294.81
 WATER TABLE ELEV. = 294.51
 WATER TABLE ELEV. = 296.73

LEACHING SYSTEM DESIGN BASED ON CATEGORY 9 SOIL

LEACHING SYSTEM DESIGN REQUIREMENTS:
 5 BEDROOMS X 115 GAL/DAY/BEDROOM = 575 GAL/DAY
 575 GAL/DAY + 0.40 GAL/SF/DAY = 1,438 S.F. NEEDED
 1,438 S.F. + 28 S.F./ELJEN UNIT = 52 ELJEN UNITS NEEDED

LEACHING SYSTEM PROPOSED:
 3 LINES OF ELJEN UNITS - 48' LONG = 54 TOTAL UNITS
 TOTAL LEACHING AREA PROVIDED = 1,512 S.F.
 OVERALL DIMENSIONS: 33' WIDE BY 48' LONG

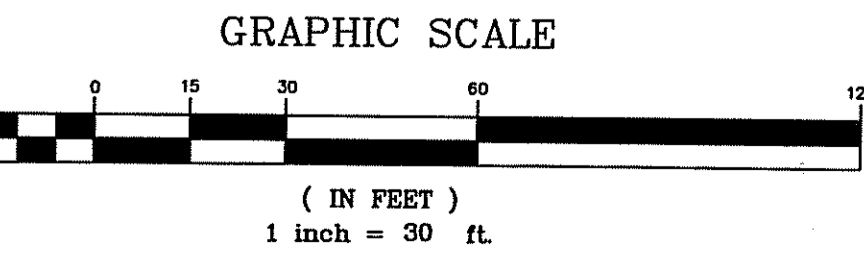
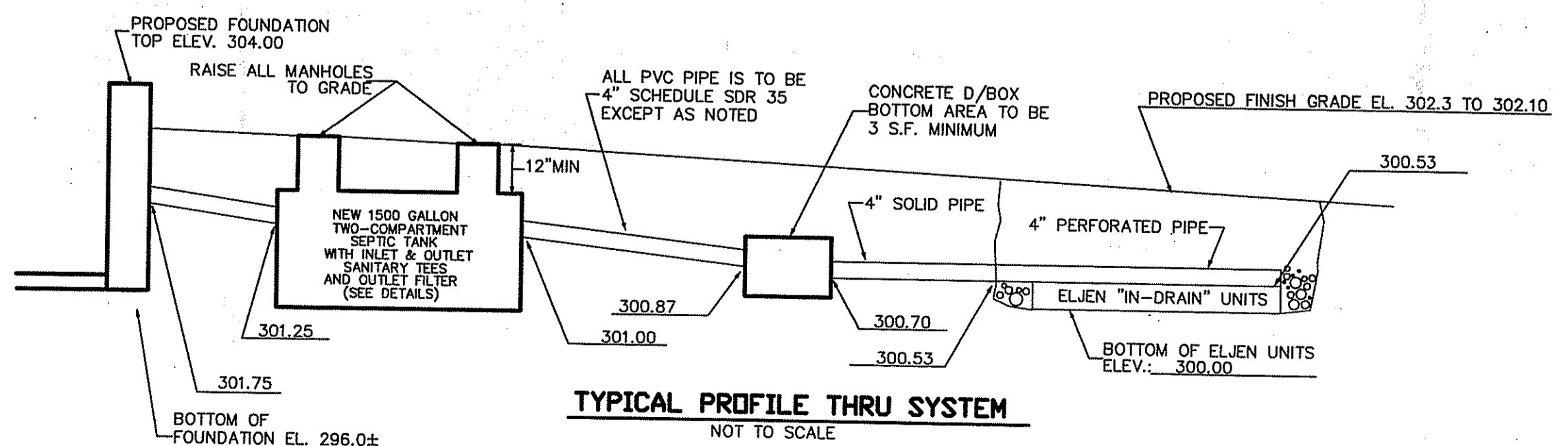
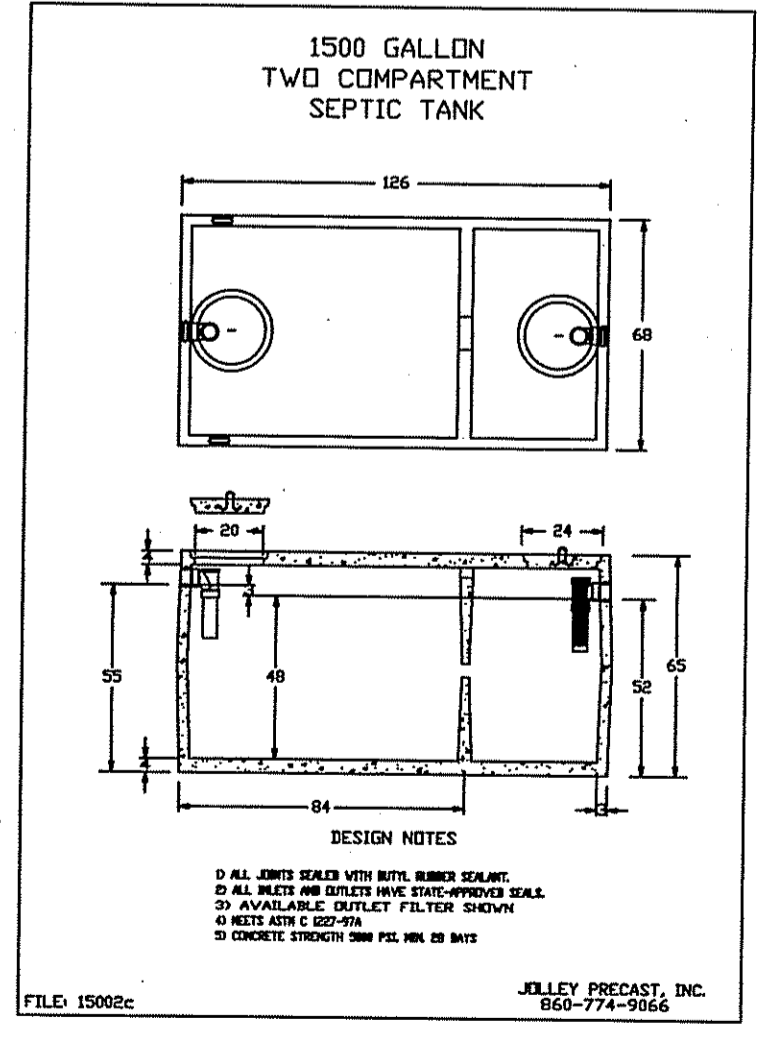


GENERAL NOTES:

- THE SLOPE OF BUILDING SEWER FROM DWELLING TO SEPTIC TANK SHALL NOT BE LESS THAN 1% AND NOT GREATER THAN 5%.
- WHEN A TIPPING DISTRIBUTION BOX IS USED, THE DISTRIBUTION BOX SHALL HAVE A MINIMUM 10" DIAMETER ACCESS OPENING BROUGHT TO FINISH GRADE. O.W.T.S. SYSTEMS WITH A FLOW OVER 2000 GALLONS PER DAY SHALL HAVE A MINIMUM 18" MANHOLE OVER EACH DISTRIBUTION BOX WITH AN EXTRA HEAVY DUTY FRAME AND COVER TO FINISHED GRADE.
- LEACHING CONSTRUCTION WHERE THE INVERT OF DISTRIBUTION LINES IS BELOW GRADE, THE SOIL BETWEEN DISPERSAL TRENCHES SHALL REMAIN UNDISTURBED.
- THE MINIMUM DISTANCE BETWEEN WALLS OF ADJACENT DISPERSAL TRENCHES SHALL BE 5' WHERE THE INVERT OF DISTRIBUTION LINES IS BELOW GRADE.
- LEACHING CONSTRUCTION WHERE THE INVERT OF DISTRIBUTION LINES IS ABOVE THE ORIGINAL GRADE, THE LEACHING FIELD AREA AND 5' BEYOND SHALL BE STRIPPED OF ALL TOPSOIL.
- A MINIMUM 10" HORIZONTAL SEPARATION DISTANCE SHALL BE PROVIDED BETWEEN THE OUTER EDGE OF THE ELJEN UNITS IN THE TRENCHES AND ANY GROUND SURFACE ELEVATION LESS THAN THE INVERT OF THE DISTRIBUTION LINES. THE ADJACENT SIDE SLOPE SHALL NOT BE STEEPER THAN 3:1 FOR A 25' MINIMUM DISTANCE FROM THE EDGE OF THE ELJEN IN THE DISPERSAL TRENCH OR UNTIL THE TOE OF THE SLOPE RETURNS TO THE ELEVATION OF THE ORIGINAL GRADE. THE TOE OF THE 3:1 SLOPE SHALL BE A MINIMUM OF 5' FROM ANY PROPERTY LINE.
- USE SCHED 35 PVC PIPING OR EQUIVALENT THROUGHOUT SEWAGE SYSTEM, EXCEPT AS NOTED.
- NO WELL EXISTS WITHIN 200' OF THE PROPOSED SEWAGE SYSTEM EXCEPT AS SHOWN.
- IF A WELL IS PROPOSED, NO SEWAGE SYSTEM EXISTS WITHIN 200' OF THE PROPOSED WELL EXCEPT AS SHOWN.
- ALL WELLS, EXISTING AND PROPOSED, WITHIN 200' OF THE SEWAGE SYSTEM ARE SHOWN. ALL PUBLIC WELLS, EXISTING AND PROPOSED, WITHIN 500' OF THE SEWAGE SYSTEM AREA ARE SHOWN.
- IF A DRIVEWAY OR PAVEMENT IS TO BE NEAR THE SEWAGE SYSTEM, PROTECTIVE BERM IS TO BE PLACED AROUND THE SEWAGE SYSTEM IN THE AREA OF THE DRIVEWAY OR PAVEMENT TO PREVENT VEHICULAR TRAFFIC TRAVELING OVER THE SEWAGE SYSTEM.
- INSTALLER TO MEET ALL O.W.T.S. SPECIFICATIONS AND REQUIREMENTS.
- NO DRAINS OF ANY KIND SHALL BE LOCATED WITHIN 25' OF THE PROPOSED SEWAGE SYSTEM.
- THE FINISH GRADE AT 10' FROM ALL SIDES OF LEACHING FIELD SHALL NOT BE LOWER THAN ELEVATION OF 301.00 WITH 3:1 SLOPE.
- REMOVE ALL TREES, BRUSH AND BOULDERS WITHIN 10-FEET OF ALL SIDES OF THE LEACHING FIELD.
- OWNER AND/OR BUILDER IS RESPONSIBLE FOR BUILDING AND LEACHING FIELD MEETING LOCAL ZONING SETBACK REQUIREMENTS.
- ALL UNDERGROUND UTILITIES AND STRUCTURES ARE APPROXIMATE AND MUST BE FIELD VERIFIED BEFORE THE START OF ANY CONSTRUCTION OR EXCAVATION.
- THE PROPOSED SILT FENCE IS TO BE INSTALLED BEFORE THE START OF ANY CONSTRUCTION AND REMAIN IN PLACE UNTIL ALL DISTURBED AREAS ARE REVEGETATED.
- THE SILT FENCE IS TO BE INSPECTED ONCE A MONTH OR AFTER ALL STORM EVENTS AND REPAIRED AS NEEDED.

SEPTIC TANK NOTES:

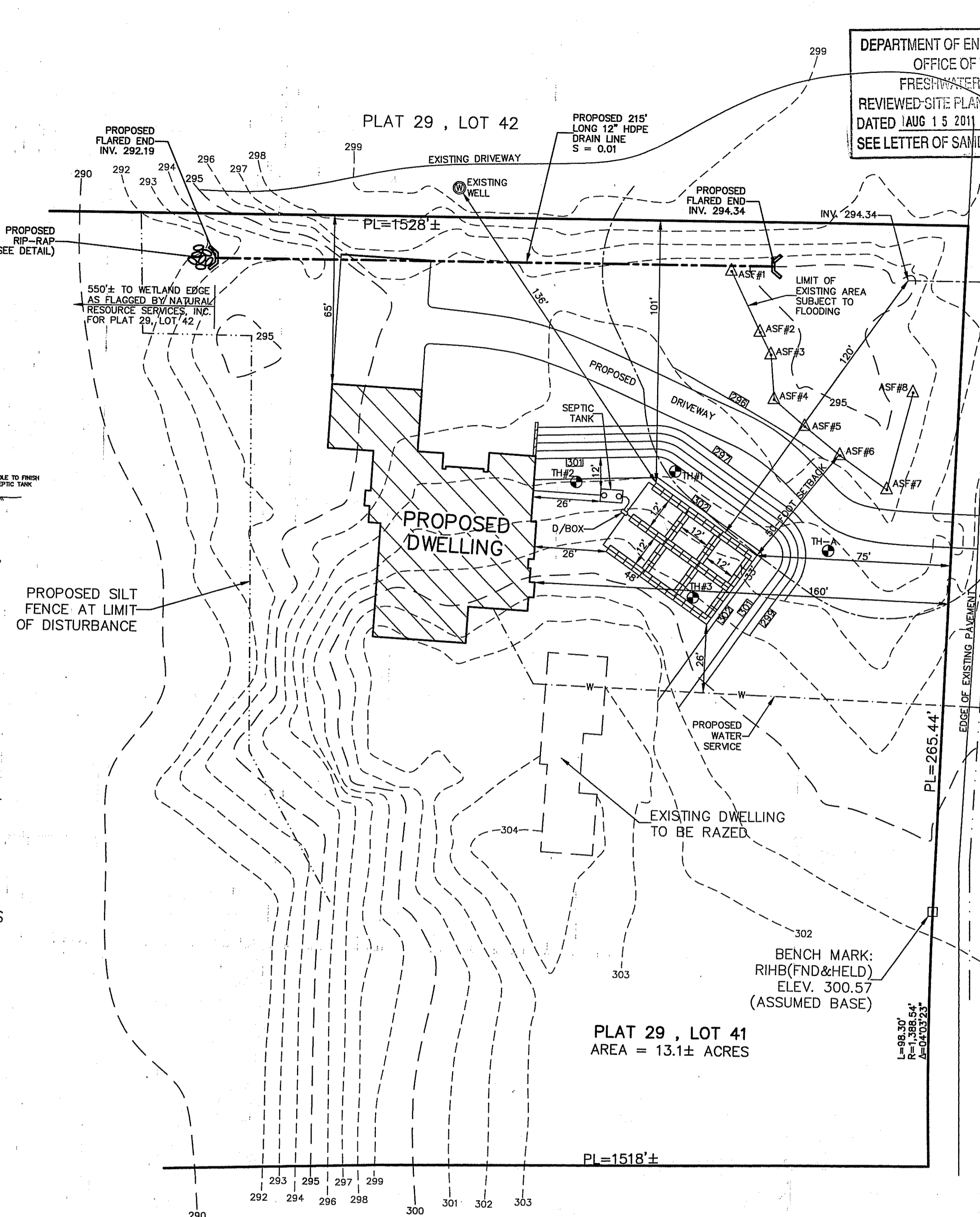
- ONE INLET AND ONE OUTLET SHALL BE PROVIDED THROUGH THE APPROPRIATE END OR SIDE WALL OF EACH TANK. WHERE MORE THAN ONE INLET IS REQUIRED FOR MULTIPLE BUILDING SEWERS, THE TANK SHALL BE MANUFACTURED WITH THE APPROPRIATE NUMBER OF INLETS.
- THE INVERT ELEVATION OF THE OUTLET SHALL BE AT LEAST 3" BELOW THE INVERT ELEVATION OF THE INLET, AND ABOVE THE SEASONAL HIGH GROUNDWATER TABLE.
- THE OUTLET AND INLET PIPES SHALL BE CONNECTED TO THE SEPTIC TANK WITH A WATERTIGHT SEALED FLEXIBLE JOINT. THE PIPE GASKET SHALL BE AN INTEGRAL PART OF ALL TANKS AND THE PIPE GASKET SHALL BE FASTENED TO THE PIPE WITH A STAINLESS STEEL RETRACTABLE CLAMP. A FRICTION FIT CONNECTION IS ONLY ALLOWED IF THE TANK IS PERFORMANCE TESTED.
- SEPTIC TANKS SHALL BE PROVIDED WITH AN INLET SANITARY TEE AND OUTLET TEES OR OTHER NON-CORRODING EQUIVALENT DEVICE APPROVED BY THE DIRECTOR. THE INLET AND OUTLET TEES SHALL BE MINIMUM SDR 35 PVC SOLVENT WELDED. THE TOPS OF THE TEES SHALL EXTEND A MINIMUM OF 6" ABOVE THE FLOW LINE, AND SHALL BE LEFT OPEN TO PROVIDE VENTILATION. THERE SHALL BE AN AIR SPACE OF AT LEAST 3" BETWEEN THE TOP OF THE TEES AND TOP INTERIOR OF THE TANK.
- THE INLET SANITARY TEE SHALL EXTEND DOWNWARD AT LEAST 12" BELOW THE FLOW LINE.
- THE OUTLET TEE SHALL EXTEND DOWNWARD 1/3 OF THE DEPTH BELOW THE FLOW LINE. ALL OUTLET TEES OR OTHER APPROVED OUTLET DEVICES SHALL BE EQUIPPED WITH AN EFFLUENT SCREEN.
- SPECIFICATIONS FOR INLET TEES AND OUTLET TEES ARE FOR NORMAL, LOW-FLOW CONDITIONS. HIGH-FLOW CONDITIONS, CREATED WITH LIQUID IS PUMPED FROM ANOTHER TANK, MAY REQUIRE OTHER DIMENSIONS AND CONSIDERATIONS.
- A MINIMUM 20" INSIDE DIAMETER ACCESS OPENING SHALL BE LOCATED OVER BOTH THE INLET TEE AND OUTLET TEE. ALL SEPTIC TANK OPENINGS SHALL MEET THE FOLLOWING REQUIREMENTS:
- THE ACCESS OPENING OVER THE OUTLET TEE SHALL BE BROUGHT TO FINISHED GRADE. OTHER ACCESS OPENINGS SHALL EITHER BE BROUGHT TO FINISHED GRADE OR WITHIN 12" OF FINISHED GRADE. WHERE A RISER IS REQUIRED, IT SHALL BE WATERTIGHT.
- LIDS ON TOP OF THE SEPTIC TANK SHOULD REMAIN IN PLACE WHERE PRACTICAL. LIDS FOR THE OPENING AT FINISHED GRADE SHALL PREVENT UNAUTHORIZED ENTRY BY MEETING EITHER OF THE FOLLOWING: (A) LID SHALL WEIGH A MINIMUM OF 50 POUNDS AND FIT TIGHTLY ONTO THE RISER OR (B) LID SHALL BE TAMPER RESISTANT AND MECHANICALLY FASTENED.
- THE SEPTIC TANK MANUFACTURERS SHALL PROVIDE AND LICENSED O.W.T.S. INSTALLERS SHALL ATTACH A LABEL OF NON-CORROSIVE MATERIAL IN A PROMINENT LOCATION AT EACH ACCESS OPENING TO WARN THAT "ENTRANCE INTO THE TANK COULD BE FATAL."
- SURFACE WATER SHALL BE DIVERTED AWAY FROM THE SEPTIC TANK OPENING.
- ACCESSIBILITY TO SEPTIC TANKS SHALL BE LOCATED ON THE LOT AS TO BE ACCESSIBLE FOR SERVICING AND CLEANING.
- INSTALLATION OF ALL SEPTIC TANKS SHALL BE INSTALLED IN ACCORDANCE WITH THE MANUFACTURER'S MINIMUM REQUIREMENTS. IN ADDITION, ALL SEPTIC TANKS MUST MEET THE INSTALLATION REQUIREMENTS SPECIFIED.
- THE SEPTIC TANK SHALL BE INSTALLED ON A LEVEL, STABLE BASE THAT WILL NOT SETTLE.
- BACK FILL SHALL BE PLACED AROUND THE SEPTIC TANK IN SUCH A MANNER AS TO AVOID DAMAGE TO IT. ALL BACK FILL PLACED AROUND THE SEPTIC TANK SHALL BE FREE OF LARGE STONES, STUMPS, WASTE, CONSTRUCTION MATERIAL AND RUBBISH.
- WHERE ANY PORTION OF A SEPTIC TANK IS INSTALLED BELOW THE SEASONAL HIGH GROUNDWATER TABLE, THE TANK'S SUSCEPTIBILITY TO FLOATION SHALL BE DETERMINED, AND PROVISIONS SHALL BE MADE TO PREVENT FLOATION, WHERE NECESSARY AS DETERMINED BY THE FLOATION CALCULATIONS.
- WHENEVER MORE THAN 25% OF THE DAILY DESIGN FLOW IS PUMPED INTO A SEPTIC TANK, THE TANK CAPACITY SHALL BE INCREASED BY 50% BEYOND THE MINIMUM CAPACITY.
- THE MINIMUM COVER OVER THE INVERT OF THE OUTLET SHALL BE 18". IF THE DEPTH OF COVER EXCEEDS 42", THE O.W.T.S. APPLICATION SHALL INCLUDE DOCUMENTATION OF THE TANK'S ABILITY TO STRUCTURALLY WITHSTAND THE LOADING, AND THE TANK'S DESIGN SHALL ALLOW FOR PROPER MAINTENANCE AND ACCESS.
- THE SEPTIC TANK SHALL BE A MINIMUM OF 75' FROM ALL WELLS.
- THE SEPTIC TANK CAPACITY IS TO BE INCREASED BY 250 GALLONS IF A GARBAGE GRINDER OR 100 GALLON TUB IS INSTALLED IN THE DWELLING.



GRAPHIC SCALE
(IN FEET)
1 inch = 30 ft.

TYPICAL PROFILE THRU SYSTEM
NOT TO SCALE

LEGEND
 CB O.W.T.S. CONCRETE BOUND ON-SITE WASTEWATER TREATMENT SYSTEM
 TH TEST HOLE
 WF WETLAND FLAG



DEPARTMENT OF ENVIRONMENTAL MANAGEMENT
 OFFICE OF WATER RESOURCES
 FRESHWATER WETLANDS PROGRAM
 REVIEWED-SITE PLAN APPLICATION NO.: 11-0147
 DATED AUG 15 2011
 SEE LETTER OF SAME DATE.

DIAMOND HILL ROAD

Environmental Management
 JUL 26 2011
 Office of Water Resources

MICHAEL P. DEFRANCESCO
 No. 9632
 REGISTERED PROFESSIONAL ENGINEER

MICHAEL DARVEAU
 No. 1978
 REGISTERED LAND SURVEYOR

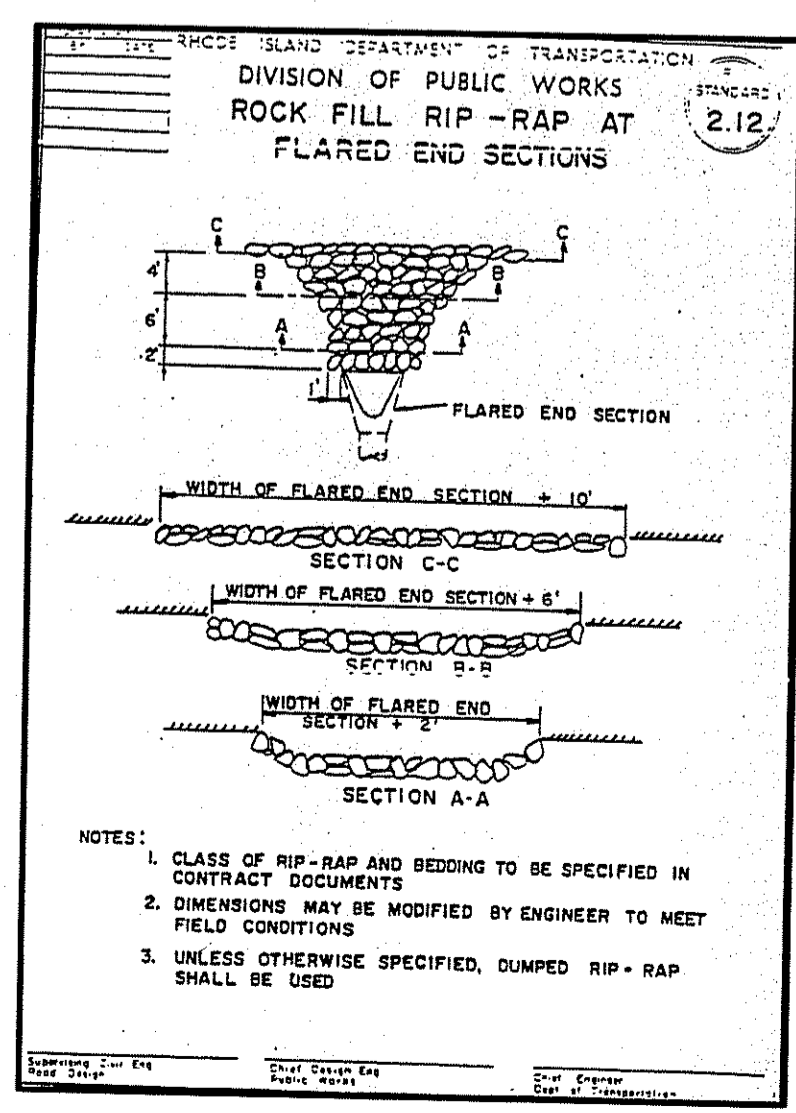
EXISTING DWELLING NOTE:

- * THE O.W.T.S. FOR THE EXISTING DWELLING WAS NOT FOUND.
- * THE EXISTING DWELLING O.W.T.S. IS TO BE ABANDONED AND/OR FILLED OR REMOVED IF FOUND DURING EXISTING DWELLING DEMOLITION AND/OR NEW DWELLING CONSTRUCTION.
- * THE WATER SERVICE FOR THE EXISTING DWELLING IS TO BE REMOVED FROM THE CURB STOP TO THE EXISTING DWELLING.
- * THE EXISTING WATER CURB STOP IS TO BE USED ONLY IF GREATER THAN 25- FEET FROM ANY COMPONENT OF THE SEPTIC SYSTEM AND ALLOWED BY THE TOWN OF CUMBERLAND WATER DEPARTMENT.
- * NO WELLS WERE FOUND ON THE PROPERTY OR WITHIN 200- FEET OF THE PROPOSED O.W.T.S., EXCEPT AS SHOWN.

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PROPOSED SITE PLAN FOR
BRIAN MACARI
 PLAT 29, LOT 41
 3070 DIAMOND HILL ROAD
 CUMBERLAND, RHODE ISLAND

DRAWING NO: 2010_043
 SHEET NO: 1 OF 1
 SCALE: 1" = 30'
 DRAWN BY: M.R.D.
 DATE: JUNE 7, 2011



NOTES:

- CLASS OF RIP-RAP AND BEDDING TO BE SPECIFIED IN CONTRACT DOCUMENTS.
- DIMENSIONS MAY BE MODIFIED BY ENGINEER TO MEET FIELD CONDITIONS.
- UNLESS OTHERWISE SPECIFIED, DUMPED RIP-RAP SHALL BE USED.