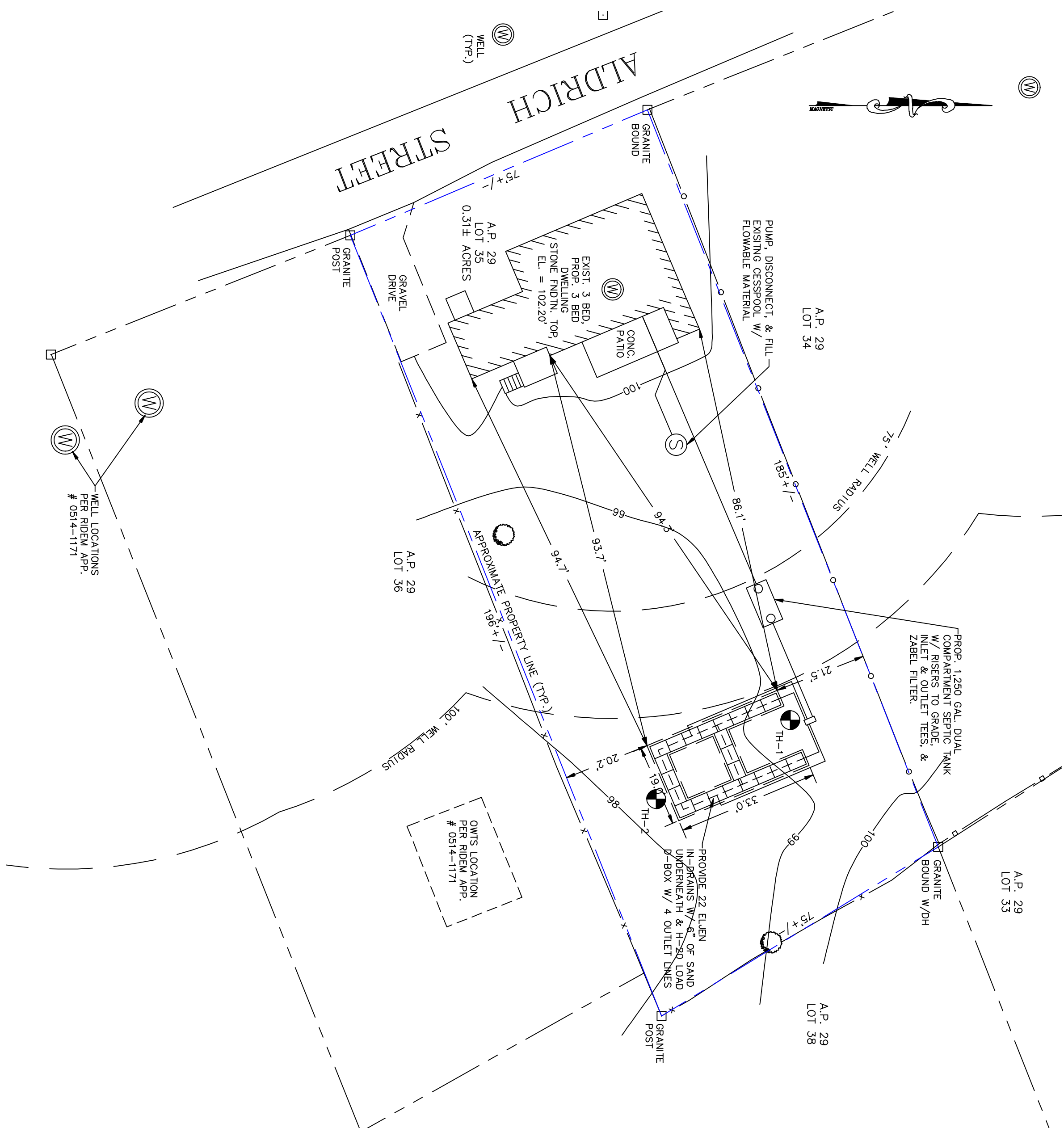


ATLAS LAND SURVEYING LLC

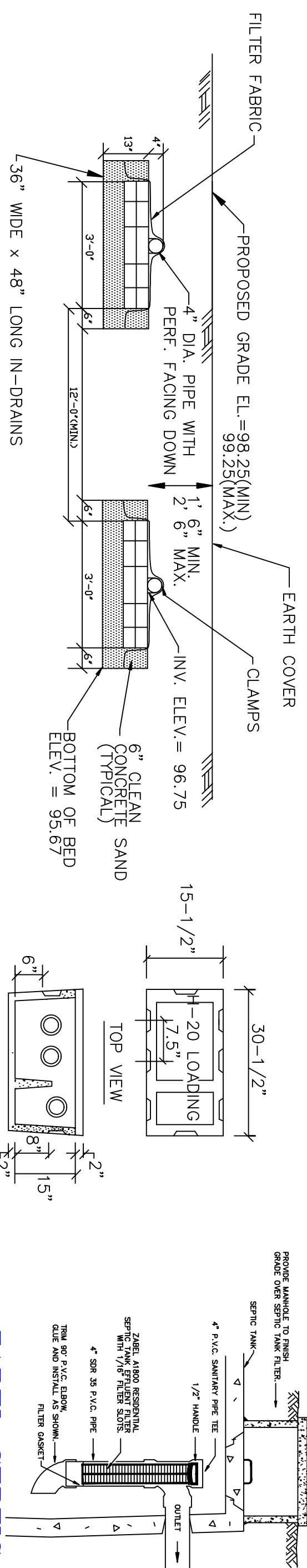


CLASS II DESIGNER REQUIREMENTS NOTES

1. SITE LAYOUT AND REQUIRED INSPECTIONS TO BE MADE BY ATLAS LAND SURVEYING AND THE FOLLOWING ITEMS:
 - a) AS-BUILT CONDITION
 - b) INSPECTION AND AS-BUILT OF COMPONENTS AND PERIMETER GRADING
 - c) FINAL COVER INSPECTION
 - d) THE APPLICANT IS REQUIRED TO NOTIFY ATLAS LAND SURVEYING OF INTENTION TO CONDUCT INSPECTIONS
 - e) THE APPLICANT SHALL BE RESPONSIBLE FOR ANY CHANGES IN THE SHOWN DESIGN TO INCLUDE ANY OF THE FOLLOWING:
 - a) NEW APPLICATIONS AS REQUIRED BY ROMA GUIDELINES
 - b) COMMUNICATIONS OR COORDINATION WITH AFFECTED STAKEHOLDERS
 - c) AS-BUILT LOCATIONS AND PLANS REQUIRED BY ROMA DUE TO TIE IN "C"
 - d) APPLICANT SHALL PROVIDE TO ATLAS LAND SURVEYING COPIES OF ALL MATERIALS RECEIVED FOR ALL CONSTRUCTION MATERIALS PRIOR TO DESIGNER ISSUING A PERMIT
2. THE ABOVE INFORMATION ARE MINIMUM REQUIREMENTS AND SHALL BE REVISED AS NECESSARY TO REFLECT THE PROJECT REQUIREMENTS
3. SHOW OWNERS DESIGN.

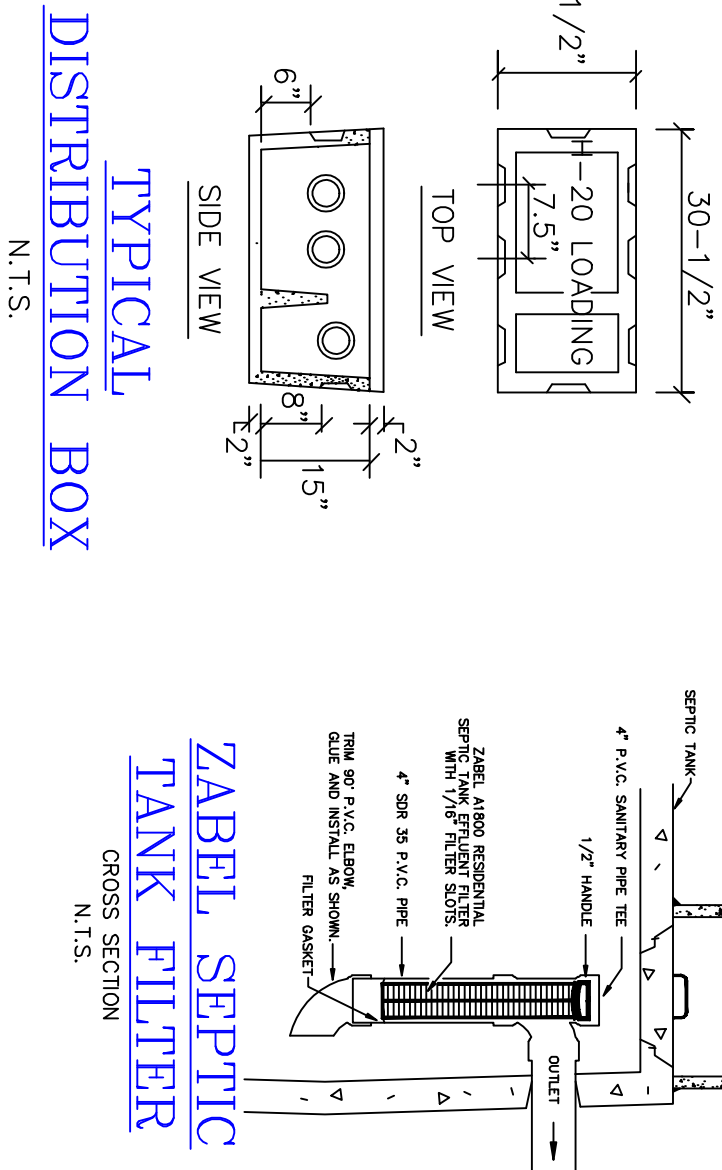
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SOIL EVALUATION



TYPICAL CROSS-SECTION THRU ELJEN IN-DRAINS

NOT TO SCALE

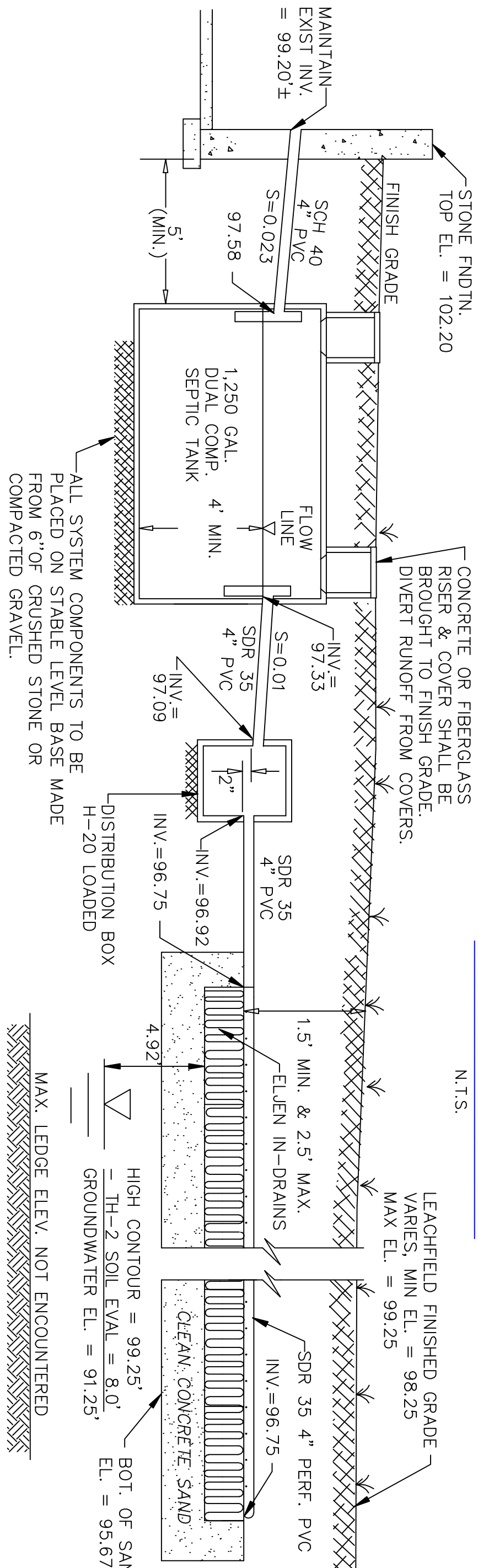


TYPICAL

N.T.S.

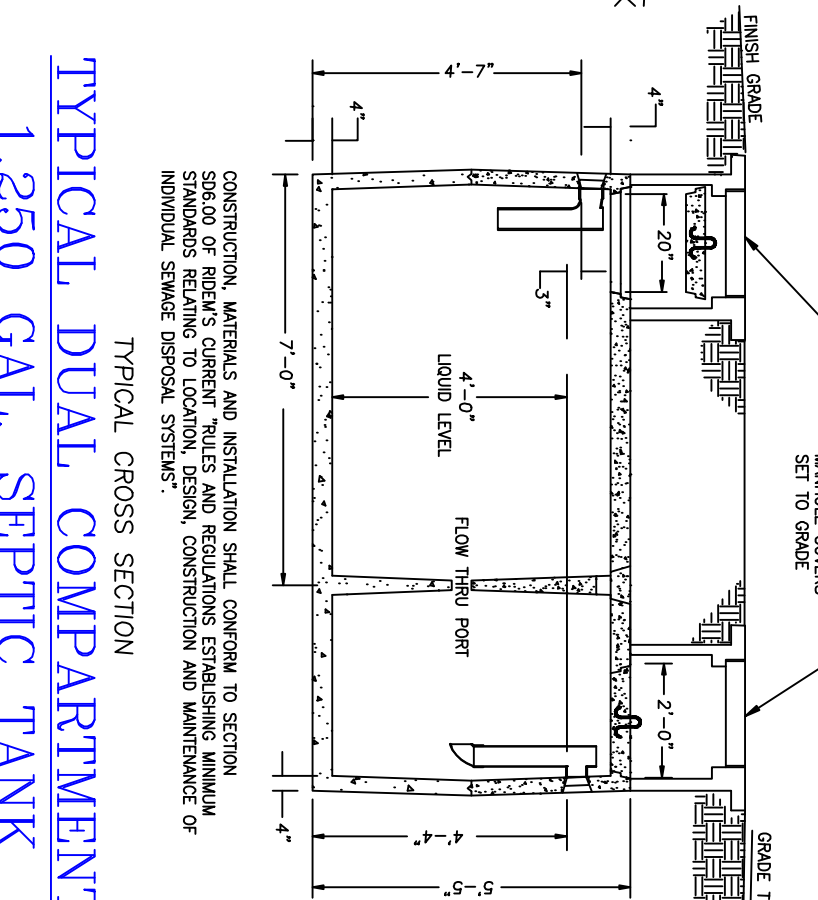
ZABEL SEPTIC
TANK FILTER

CROSS SECTION
N.T.S.



TYPICAL PROFILE THRU FLOW ELJEN IN-DRAIN SYSTEM

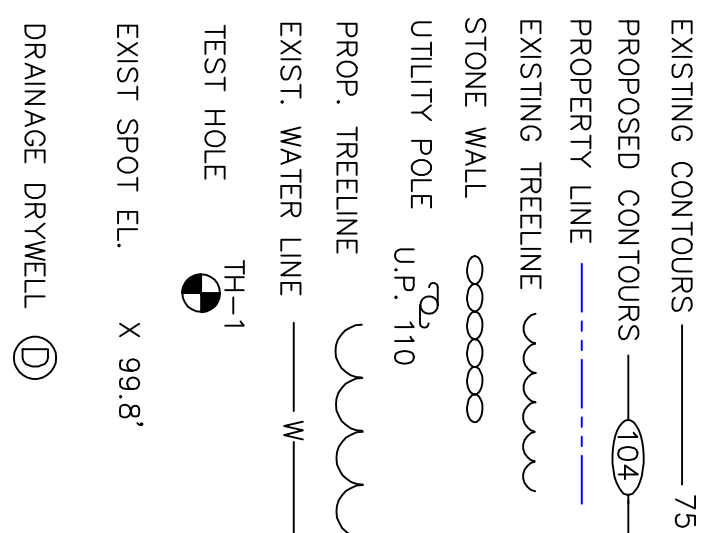
NOT TO SCALE



TYPICAL DUAL COMPARTMENT
1,250 GAL. SEPTIC TANK

NOT TO SCALE

LEGEND



LOCUS MAP

N.T.S.

SURVEY CLASSIFICATION:

THIS SURVEY AND PLAN CONFORM TO THE FOLLOWING STANDARDS
AS ADOPTED BY THE BOARD OF REGISTRATION
FOR PROFESSIONAL LAND SURVEYORS.
PROPERTY LINE CLASS "III"
TOPOGRAPHY - CLASS "III"

BY: _____ DATE _____

MARCUS CHANNELL, P.L.S. #1971

OWTS GENERAL NOTES:

1. THE SUBJECT PROPERTY "IS NOT" LOCATED WITHIN THE RHODE ISLAND COASTAL RESOURCES (CRMC) JURISDICTIONAL LIMITS.
2. ALL PRIVATE AND PUBLIC DRINKING WATER LINES WITHIN 500 FEET OF THE PROPOSED ONSITE WASTEWATER TREATMENT SYSTEM (OWTS) ARE SHOWN, UNLESS OTHERWISE NOTED ON SITE PLAN.
3. THERE ARE NO PUBLIC SEWERS AVAILABLE TO THE PROPERTY WITHIN 200 FEET UNLESS NOTED ON SITE PLAN.
4. ALL EXISTING AND PROPOSED PRIVATE DRINKING WATER WELLS WITHIN THE REQUIRED SETBACKS OF THE PROPOSED OWTS LEACHFIELD ARE SHOWN AS REQUIRED BY REGULATION TABLE 22.5 INCLUDING THE ADDITIONAL 100' LIMIT, UNLESS OTHERWISE NOTED ON THE SITE PLAN.
5. ALL KNOWN EXISTING AND PROPOSED WELLS SERVING NON-POTABLE USES WITHIN 100 FEET OF THE OWTS ARE SHOWN, UNLESS OTHERWISE NOTED ON THE SITE PLAN.
6. ALL EXISTING AND PROPOSED PUBLIC DRINKING WATER WELLS WITHIN 500 FEET OF THE PROPOSED OWTS ARE SHOWN, UNLESS OTHERWISE NOTED ON THE SITE PLAN. THE CONSTRUCTION DETERMINATION OF SAID WELLS IS IDENTIFIED ON THE SITE PLAN, UNLESS OTHERWISE NOTED.
7. ALL WATERCOURSES, WETLANDS, AND DRAINS WITHIN 200 FEET OF THE PROPOSED OWTS ARE SHOWN, UNLESS OTHERWISE NOTED ON SITE PLAN.
8. ALL STORM AND SUBSURFACE DRAINS WITHIN 200 FEET OF THE PROPOSED OWTS ARE SHOWN, UNLESS OTHERWISE NOTED ON SITE PLAN. THE ULTIMATE DISCHARGE OF SAID DRAINS ARE IDENTIFIED ON THE SITE PLANS.
9. THE OWTS "IS NOT" LOCATED WITHIN THE WATERSHED OF A PUBLIC WATER SUPPLY OR OTHER CRITICAL RESOURCE AREA AS IDENTIFIED IN REGULATION RULE NO. 38.
10. ALL EXISTING OWTS, ON RAISING PROPERTIES WITHIN 200 FEET OF A PROPOSED WELL TO SERVICE THE SUBJECT PROPERTY ARE IDENTIFIED ON THE SITE PLAN, UNLESS OTHERWISE NOTED.
11. THE SUBJECT PROPERTY IS NOT LOCATED WITHIN AN IDENTIFIED FLOOD ZONE. THE SUBJECT OWTS IS LOCATED OUTSIDE OF THE 100 YEAR FLOOD PLAN.
12. IF A PROPOSED WELL IS REQUIRED TO SERVICE THE WATER REQUIREMENTS FOR THE SUBJECT PROPERTY, SAID WELL "DOES NOT" REQUIRE A VARIANCE FROM RIDEMS "RULES AND REGULATIONS GOVERNING THE ENFORCEMENT OF CHAPTER 46-13.2 RELATING TO THE DRILLING OF DRINKING WATER WELLS".
13. OWTS DESIGN DATA:
 - NUMBER OF PROPOSED ROOMS IN DWELLING NOT TO EXCEED 7 PER TABLE 21.2 - 3 BED DESIGN
 - BEDROOM X 11.5 BATHS, PER BEDROOM TOTAL DESIGN FLOW = 445 GPD
 - BASED ON THE SITE SOL EVALUATION, THE MOST RESTRICTIVE SOIL DESIGN CATEGORY IS 1m.
 - THE SOIL APPLICATION RATE = 0.61 GAL/SQ FT/DAY
 - TOTAL PROVIDED LEACHING AREA = 966.58 SQUARE FEET
 - TOTAL PROVIDED LEACHING AREA = 616.00 SQUARE FEET
 - LEACHFIELD: 19'W X 33'L, 22 ELJEN IN-DRAINS W/ 6" OF SAND UNDERNEATH PROVIDED
14. OWTS GENERAL CONSTRUCTION NOTES:
 - ALL PIPING SHALL BE 4" PVC SDR 35 OR EQUIVALENT, UNLESS OTHERWISE NOTED
 - ALL PIPE SLOPES SHALL BE A MINIMUM OF 1% AND A MAXIMUM OF 5%. REFER TO THE PROFILE
 - THE SEPTIC TANK SHALL BE A TWO-COMPARTMENT TANK WITH THE CAPACITY AS STATED ON THE SITE PLAN
 - THE SEPTIC TANK SHALL EXTEND 1' BELOW THE FLOW LINE AND THE OUTLET TEU SHALL EXTEND 1/3 THE DEPTH BELOW THE FLOW LINE
 - THE OUTLET TEU SHALL BE FITTED WITH A ZABEL EFFLUENT FILTER OR EQUIVALENT, REFER TO PLAN DETAIL FOR DESIGNED MARK AND MODEL, UNLESS OTHERWISE NOTED.
 - THE SEPTIC TANK SHALL BE FITTED WITH TWO ACCESS MANHOLE RISERS NOT LESS THAN 20"
 - THE D-BOX SHALL HAVE A MINIMUM OF 3 SQUARE FEET OF BOTTOM AREA AND BE CAPABLE OF CARRYING A MINIMUM 300 PSF LOAD WITH MINIMAL SIDEWALL DEFLECTION.
 - LEACHFIELD STONE, IF USED, SHALL BE 3/4" TO 2" DOUBLE WASHED STONE, FREE OF ALL DEBRIS.
 - SURFACE GRADES WITHIN 10 FEET OF THE LEACHFIELD SHALL NOT BE LOWER THAN ELEVATION 96.92'. AT THE 10 FEET DISTANCE FROM THE LEACHFIELD, THE SLOPE SHALL BE A MINIMUM OF 3H:1V TO MATCH INTO EXISTING GRADES.
 - THE LEACHFIELD AND THE AREA WITHIN 10 FEET FOR THE LEACHFIELD SHALL BE STRIPPED OF ALL TREES, BRUSH, SANDWICHES, AND BOLLERS. THE SIDES AND BOTTOM OF THE EXCAVATION SHALL NOT BE COMPACTED OR SWEARED, UNLESS OTHERWISE NOTED ON THE SITE PLAN.
 - REFER TO THE SITE PLAN FOR LEACHFIELD STRIP REQUIREMENTS.
 - THE FINISH GRADE OVER THE SEPTIC TANK SHALL BE GRADED TO DIVERT SURFACE WATER RUNOFF AWAY FROM THE TANK.
 - IF A DRIVEWAY OR PAVEMENT IS TO BE LOCATED NEAR THE PROPOSED OWTS, A FENCE OR CURBING SHALL BE INSTALLED AROUND THE SYSTEM IN THE AREA OF THE PAVEMENT TO PREVENT VEHICULAR TRAFFIC FROM DRIVING ONTO THE SYSTEM.
15. THIS PLAN IS NOT A PROPERTY SURVEY & IS ONLY INTENDED TO REPRESENT APPROXIMATE PROPERTY BOUNDS. THESE PLANS ARE SOLELY INTENDED FOR THE PURPOSE OF DESIGN, APPROVAL, & INSTALLATION OF THE OWTS SYSTEM.
16. GENERAL OWNER NOTES:
 - FOOD/GARAGE GRINDERS INSIDE DWELLING AND DISPOSAL OF GREASES, OILS, AND OR FATS ARE PROHIBITED.
 - VEHICLE PARKING OR TRAFFIC OVER THE OWTS COMPONENTS IS PROHIBITED.
 - BACKWASH WATER FROM A WATER TREATMENT SYSTEM WAS NOT TAKEN INTO CONSIDERATION WITH THE DESIGN OF THIS OWTS. WATER TREATMENT SYSTEM DISCHARGE TO THIS OWTS IS PROHIBITED.
 - THE SEPTIC TANK SHALL BE PUMPED AT NO LESS THAN 2 YEAR INTERVALS. THE EFFLUENT ZABEL FILTER SHALL BE CLEANSED NO LESS THAN ONCE ANNUALLY.

ONSITE WASTEWATER TREATMENT
SYSTEM ALTERATION DESIGN

**A.P. 29 , LOT 35
14 ALDRICH STREET
HOPKINTON, RHODE ISLAND**

**Prepared For:
KURT BONN**

REVISION:	
DATE:	APRIL 2010
DRAWN BY:	KRC
SCALE:	1" = 20'
SHEET	
OF 1 SHEETS	1
JOB NO.	
DWG. NO.	