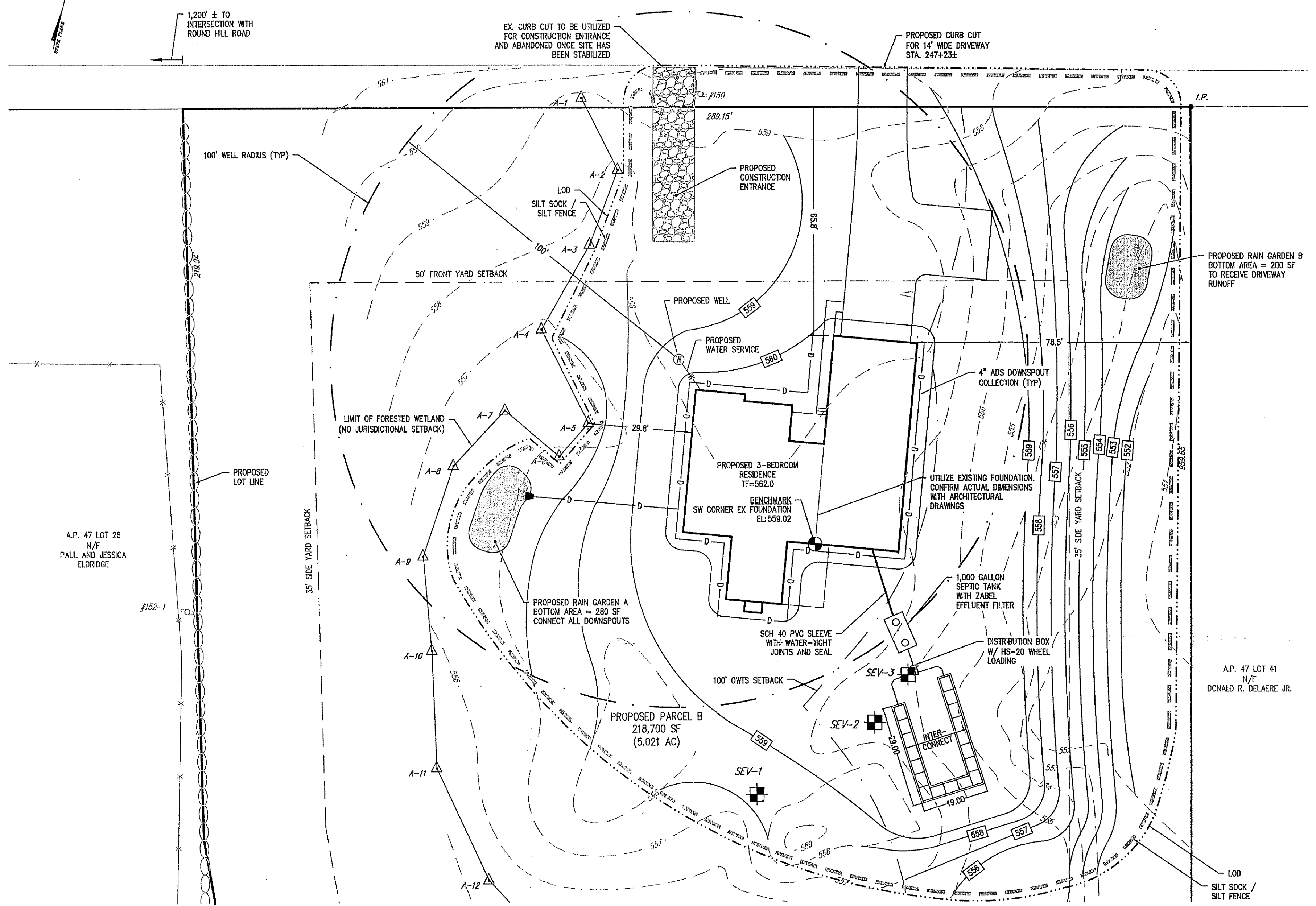


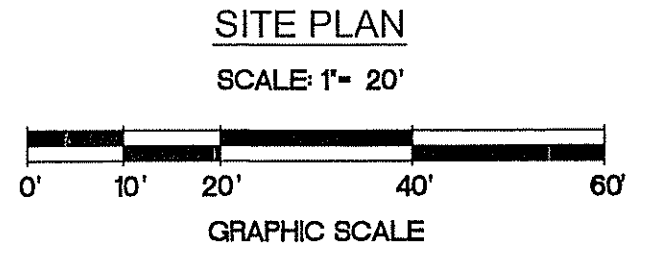
CENTRAL PIKE
(STATE HIGHWAY PLAT #906)



- LEGEND:**
- SUBJECT LOT LINE
 - - - PROPOSED LOT LINE
 - - - BUILDING SETBACK LINE
 - - - ASSESSOR'S LOT LINE
 - A.P. 47 LOT 41 ASSESSOR'S PLAT AND LOT
 - BENCHMARK
 - EXISTING FENCE
 - - - EXISTING CONTOUR
 - EXISTING STONE WALL
 - EXISTING EDGE OF PAVEMENT
 - EXISTING UTILITY POLE
 - △ A-3 WETLAND FLAG
 - OWTS SETBACK
 - ⊕ TEST HOLE LOCATION
 - PROPOSED PAVEMENT
 - PROPOSED CONTOUR
 - PROPOSED WELL
 - PROPOSED WATER SERVICE
 - - - LIMIT OF DISTURBANCE
 - - - PROPOSED SILT SOCK / SILT FENCE

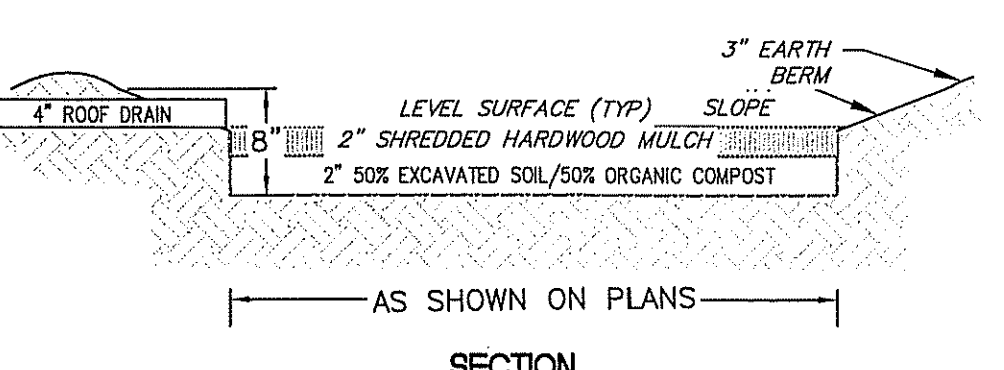
DEPARTMENT OF ENVIRONMENTAL MANAGEMENT
OFFICE OF WATER RESOURCES
OWTS & FRESHWATER WETLANDS
JOINT PERMIT APPROVAL

OWTS# 1730-1865 FWW# 18-016
APPROVED: [Signature] DATE 8/2/18
No Changes Allowed Without RIDEM Approval
Approved Drawings/Permit Must Be Kept at Construction Site



- NOTES:**
- PROPERTY LINES SHOWN ARE APPROXIMATE. THIS PLAN SHALL NOT BE CONSIDERED A BOUNDARY SURVEY.
 - FRESHWATER WETLANDS FLAGGING PERFORMED BY NATURAL RESOURCE SERVICES INC. ON JANUARY 29, 2018 AND LOCATED BY MILLSTONE ENGINEERING, P.C. ON FEBRUARY 13, 2018.
 - EXISTING CONDITIONS SURVEY PERFORMED BY MILLSTONE ENGINEERING, P.C. ON JANUARY 8 AND FEBRUARY 13, 2018.
 - THE ENTIRE SITE IS LOCATED IN ZONE X (AREA OF MINIMAL FLOOD HAZARD) AS SHOWN ON FEMA MAP 44070D270G, EFFECTIVE DATE: 3/2/2009.
 - VERTICAL DATUM: NAVD 1988.
 - SEE SHEET 2 FOR DETAIL OF ENTIRE PROPERTY.

- NOTES:**
- RAIN GARDEN AMENDED SOIL SHALL CONTAIN 50% EXCAVATED SOIL AND 50% ORGANIC COMPOST.
 - EACH RAIN GARDEN SHALL HAVE A BOTTOM AREA AS SHOWN ON THE PLAN.
 - RAIN GARDEN ACCEPTABLE PLANT LIST:



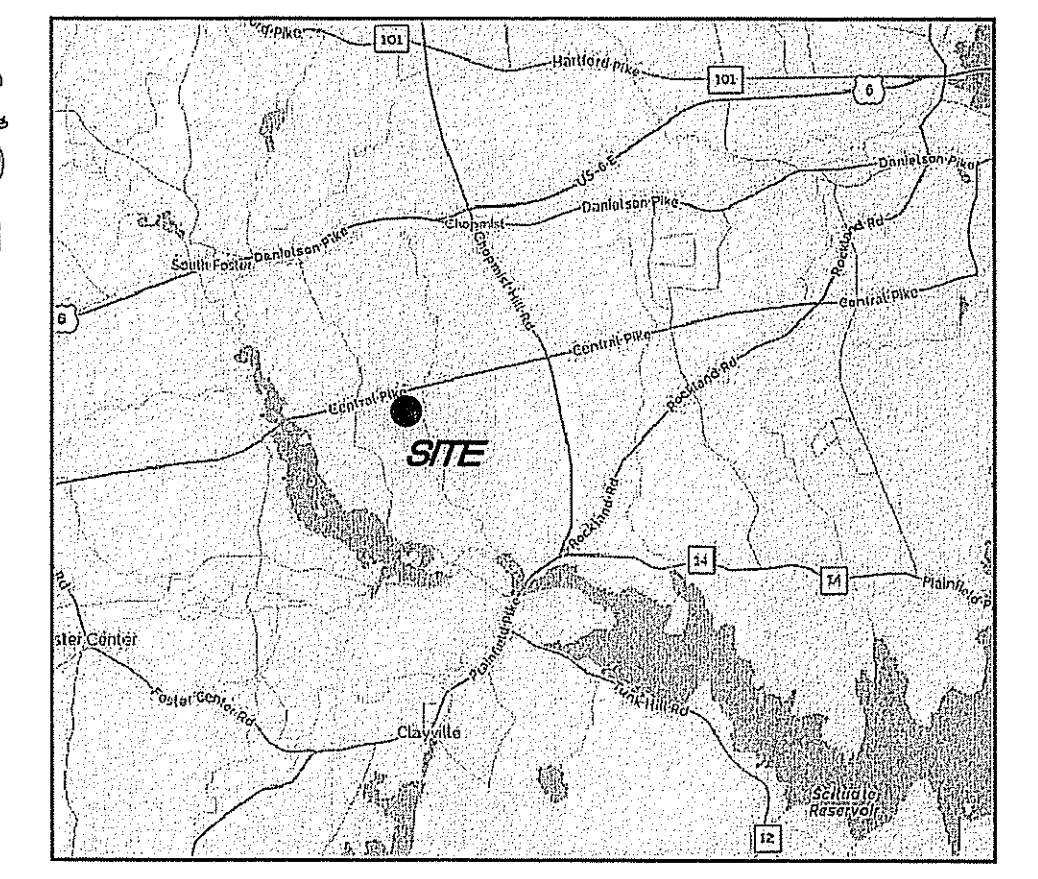
RAIN GARDEN SIZING

BASED UPON THE RIDEM/OWTC DOCUMENT ENTITLED "STATE OF RI STORMWATER MANAGEMENT GUIDANCE FOR INDIVIDUAL SINGLE-FAMILY RESIDENTIAL DEVELOPMENT". FOR EACH 100 SQUARE FEET (SF) OF IMPERVIOUS SURFACE DRAINING TO A RAIN GARDEN (RG), A MINIMUM SURFACE AREA (SA) IS REQUIRED DEPENDING UPON THE DEPTH OF THE RAIN GARDEN AND THE SOIL TYPE - SANDY vs SILTY.

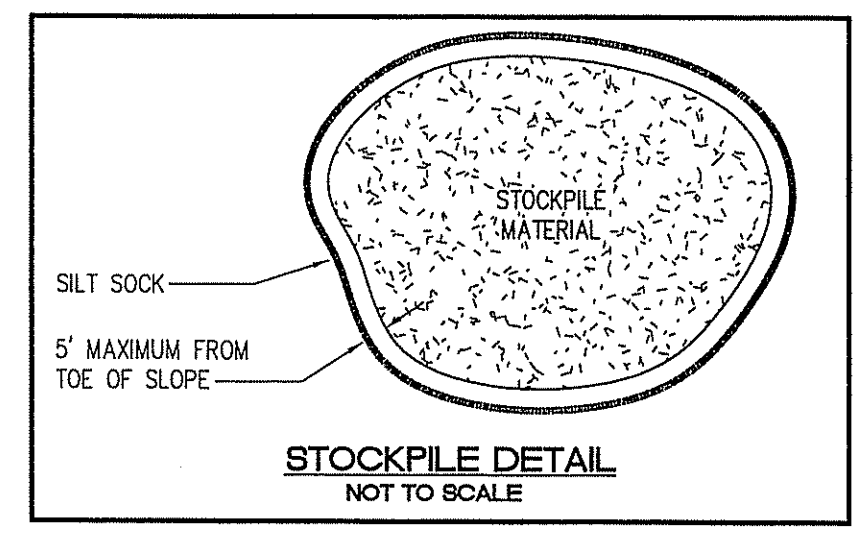
FOR SANDY SOILS AS RECORDED ON-SITE DEPTH OF RG SA / 100 SF @ AN 8" DEEP DESIGN DEPTH

IMPERVIOUS AREA	SA REQ'D	SA PROVIDED
A ROOFTOP 3,135	80+80+80+24 = 256 SF	280 SF
B DRIVEWAY 1,951	80+80 = 160 SF	200 SF

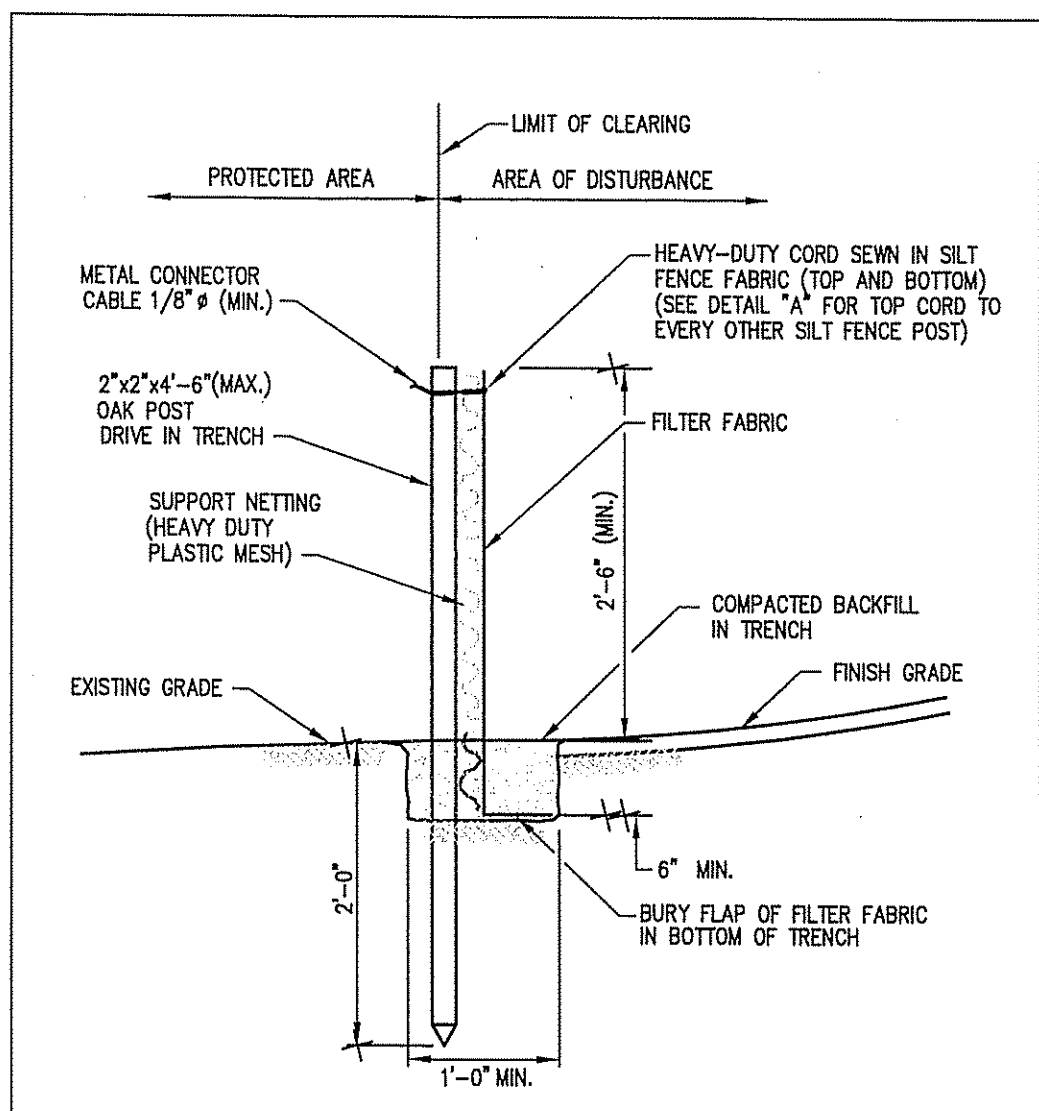
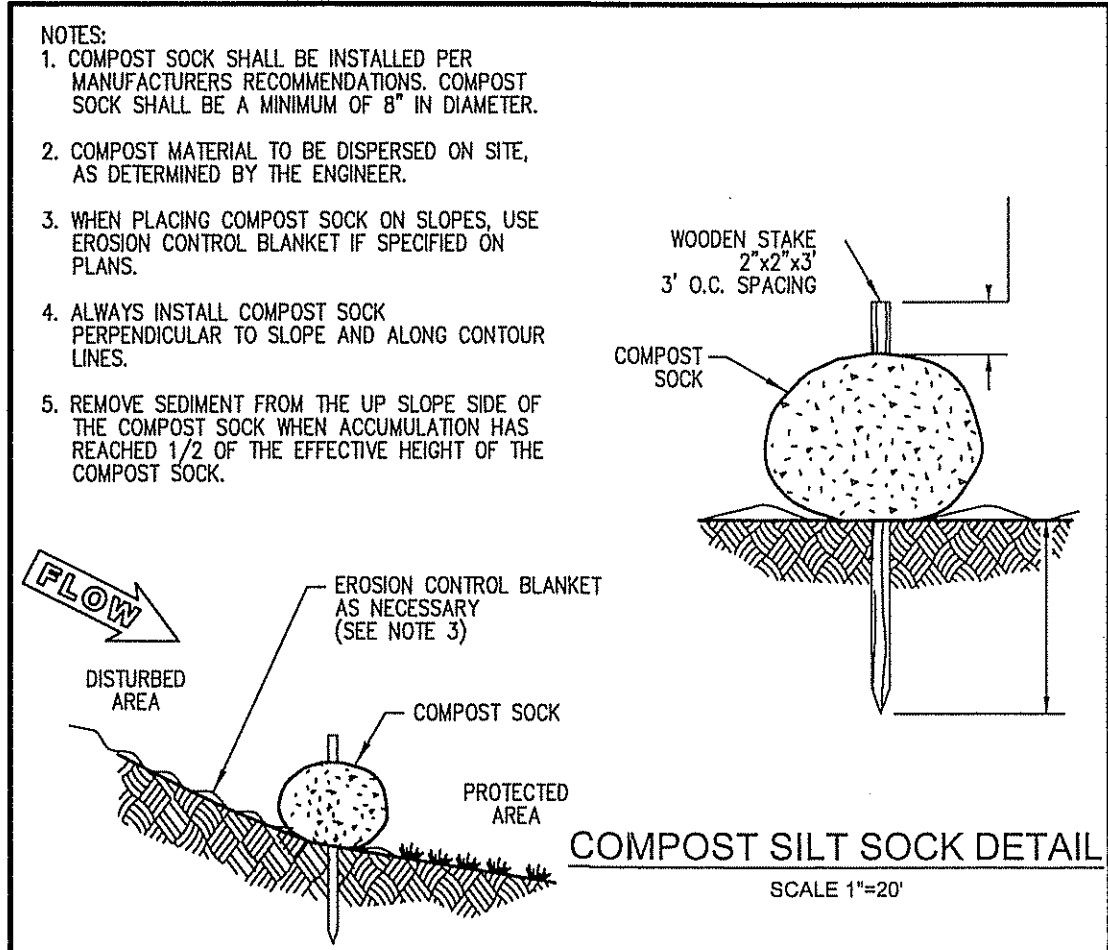
RAIN GARDEN DETAILS
NTS



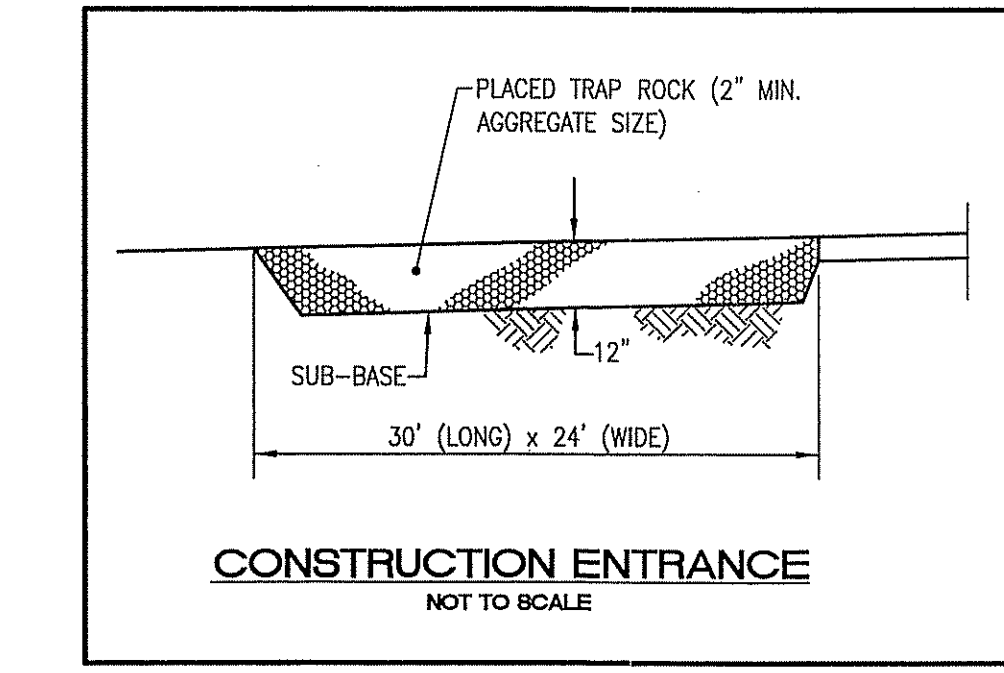
LOCATION MAP
NOT TO SCALE



STOCKPILE DETAIL
NOT TO SCALE



SILT FENCE DETAIL
NOT TO SCALE



REVISION

NO.	DATE	DESCRIPTION
1	7/23/18	PREP COMMENTS

JEFFREY C. HANSON
No. 5238
7/23/18
REGISTERED PROFESSIONAL ENGINEER

MILLSTONE ENGINEERING, P.C.
CIVIL ENGINEERING & LAND PLANNING
250 Catawbe Road, Building E-12 790 Ashland Avenue, Building B
Warwick, Rhode Island 02886 Middletown, Rhode Island 02842
P: (401) 921-5334 www.MillstoneEng.com

SITE PLAN
PROPOSED RESIDENCE
A.P. 47 LOT 26
824-826 CENTRAL PIKE
SCITUATE, RHODE ISLAND

Prepared for:
PAUL & JESSICA ELDRIDGE

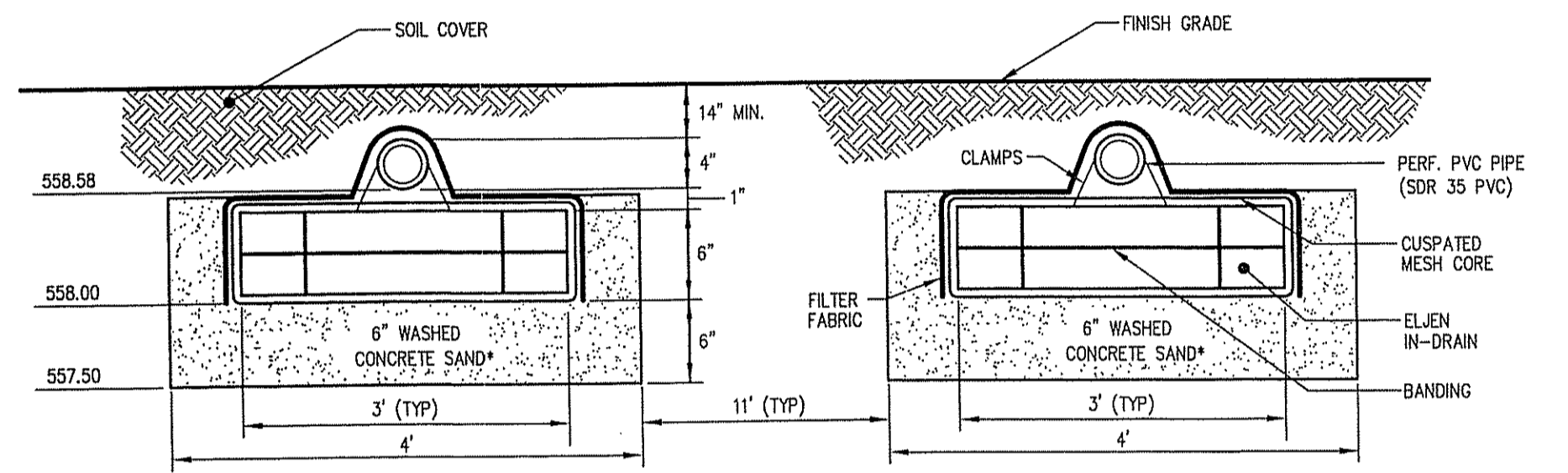
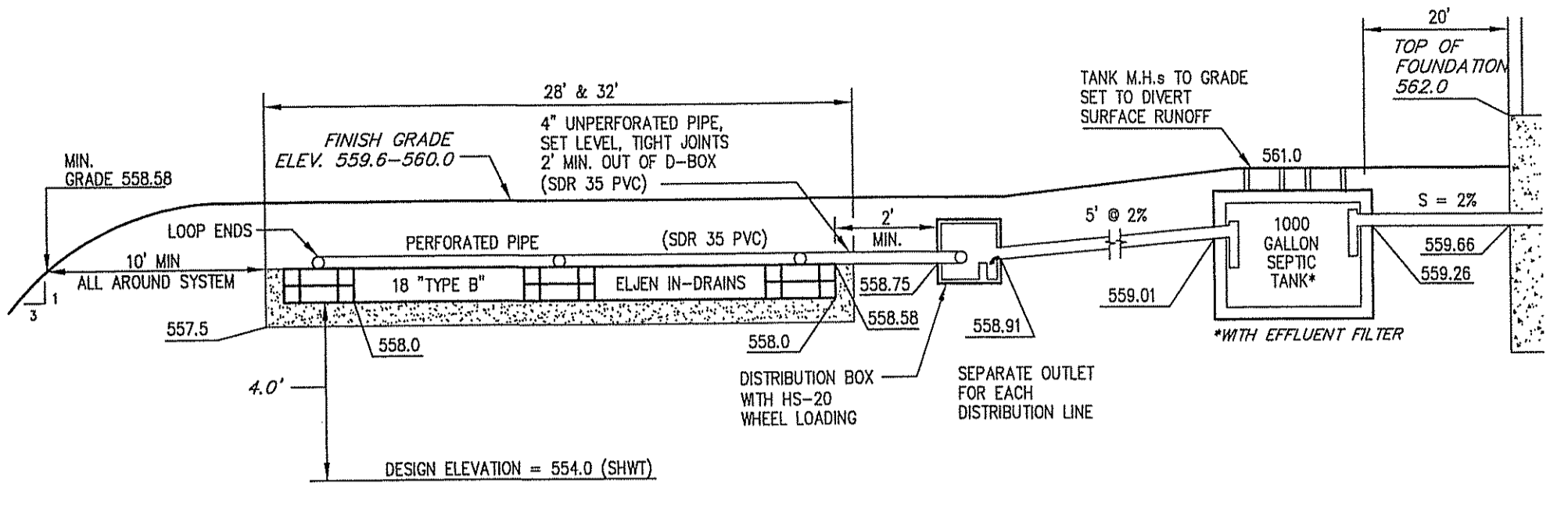
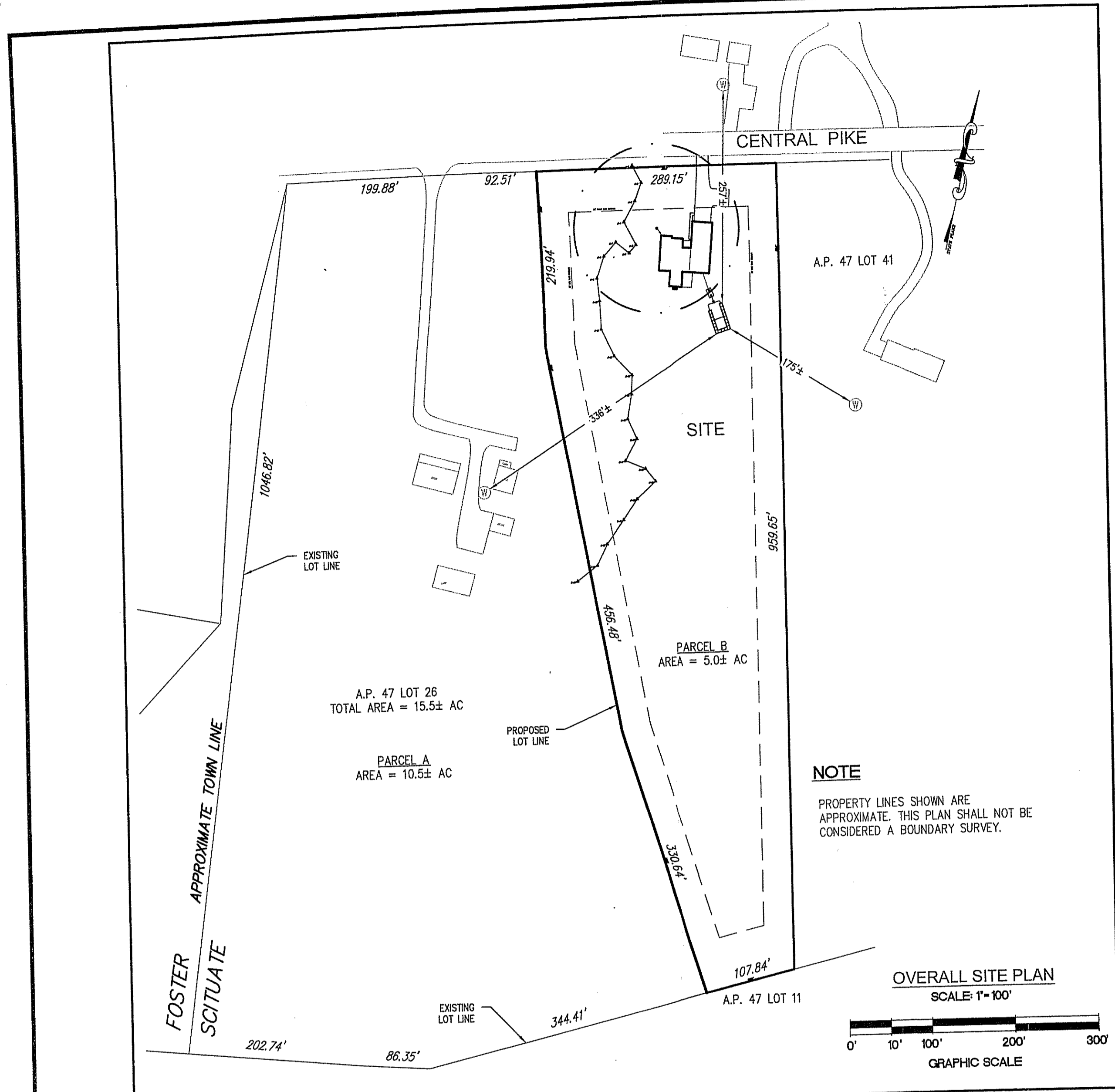
SCALE: AS NOTED

JUNE 2018

Drawn By: BJC
Checked By: JCH

Sheet **1** of 2

FILE NO.: 17.308.451



GROUND WATER VERIFICATION NO. 1730-1805 SUBDIVISION IDENTIFICATION NO. N/A

ON-SITE WASTEWATER TREATMENT SYSTEM NOTES:

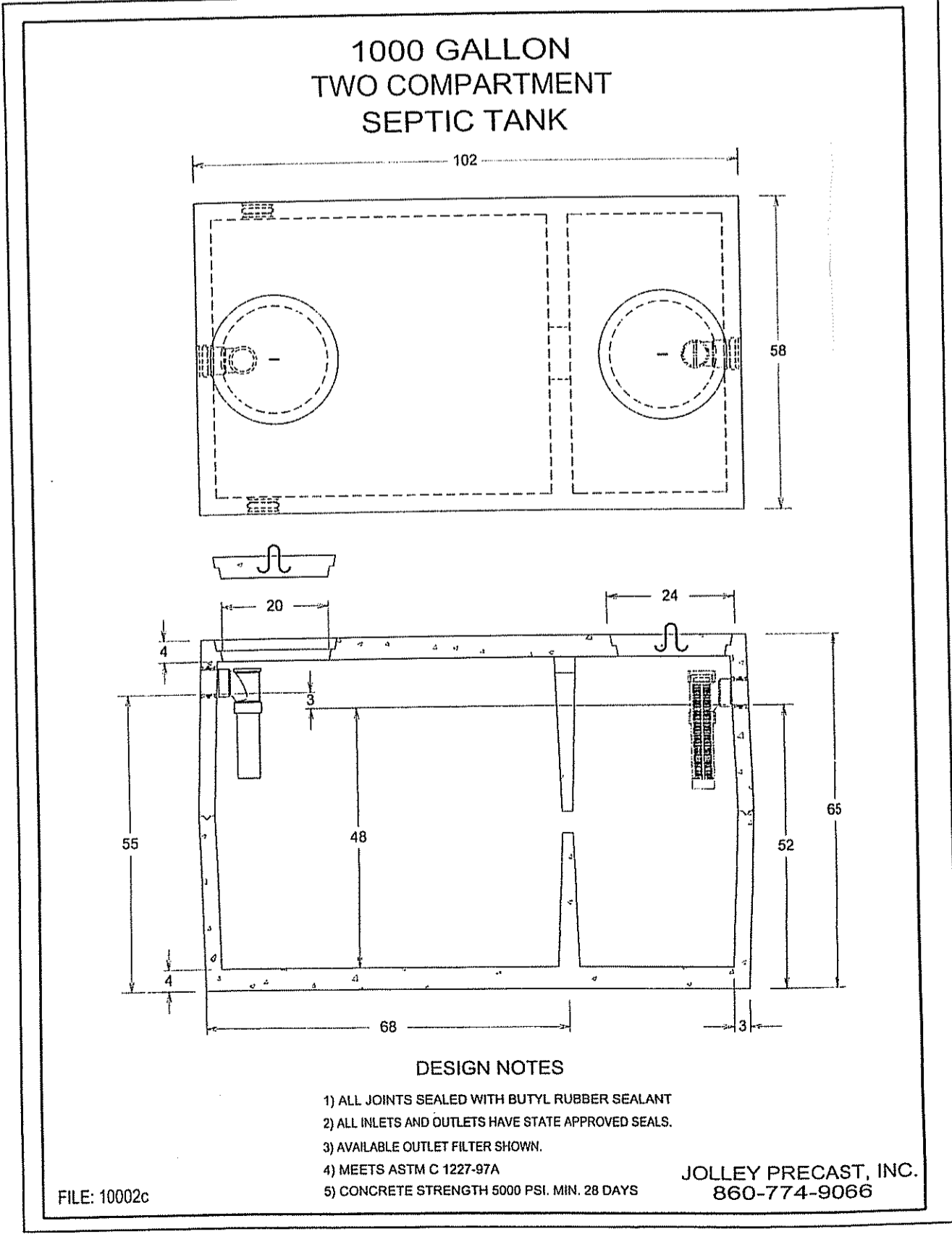
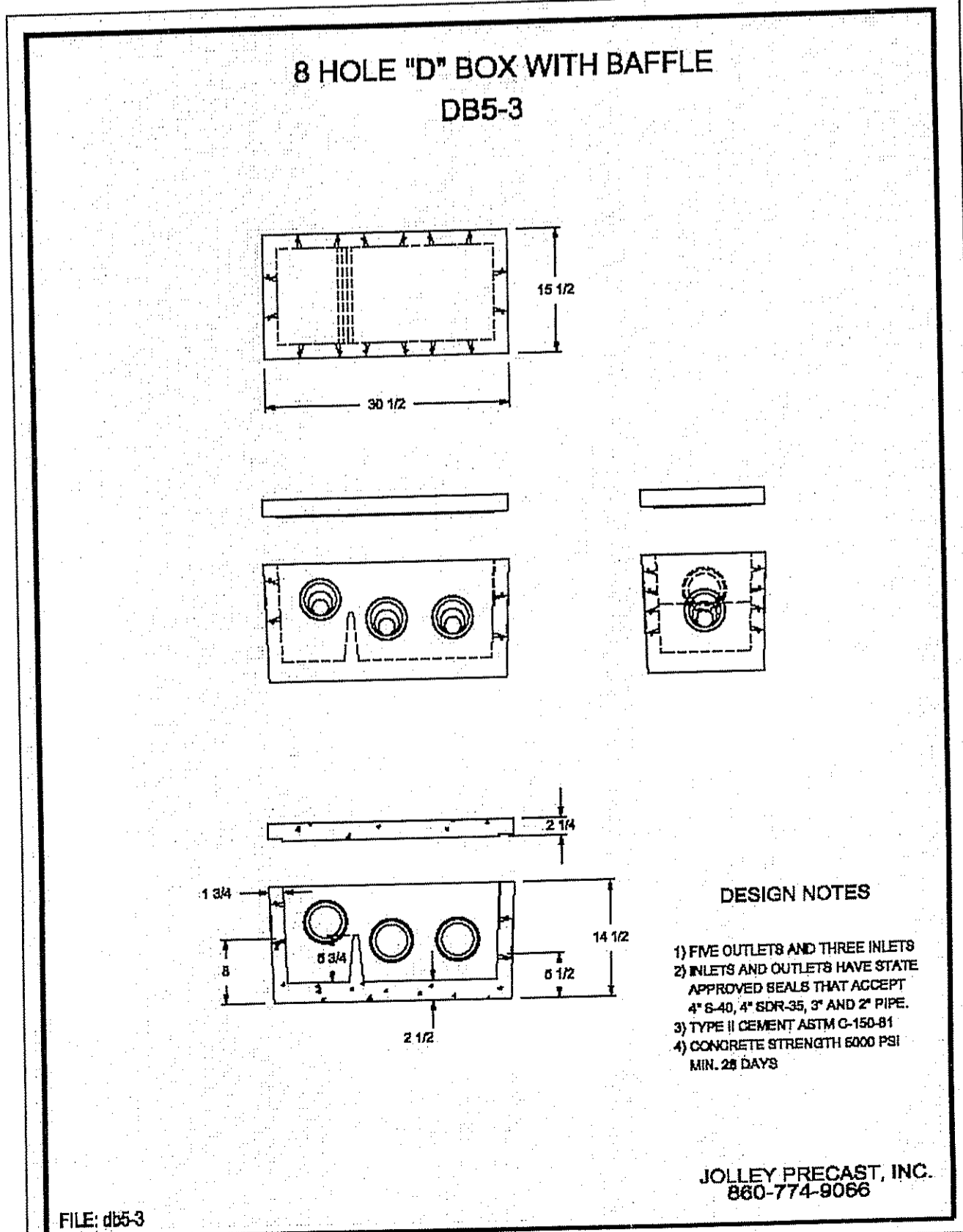
- ALL OTHER DESIGN, CONSTRUCTION AND MAINTENANCE REQUIREMENTS, WHETHER NOTED HEREON, OR NOT, SHALL BE IN CONFORMANCE WITH RULES ESTABLISHING MINIMUM STANDARDS RELATING TO LOCATION, DESIGN, CONSTRUCTION AND MAINTENANCE OF ON-SITE WASTEWATER TREATMENT SYSTEMS, JULY 9, 2012, BY THE R.I. DEPARTMENT OF ENVIRONMENTAL MANAGEMENT, AUTHORITY: CHAPTER 42-35 PURSUANT TO CHAPTERS 42-17.1, 5-56, 5-56.1, 23-19.5 AND 23-24.3 OF THE RHODE ISLAND GENERAL LAWS OF 1956 AS AMENDED. (OWTS REGULATIONS)
- COMPLY WITH ANY ADDITIONAL TERMS OF APPROVAL AS MAY BE REQUIRED BY R.I.D.E.M.
- MAINTAIN INVERT ELEVATION 558.58 FOR 10 FEET AROUND THE SYSTEM.
- CLEAR ALL TREES, STUMPS, AND BRUSH WITHIN 10 FEET OF THE SYSTEM.
- THERE SHALL BE NO SUBSURFACE FOUNDATION, OR STORM DRAINS WITHIN 25 FEET OF THE PROPOSED SYSTEM.
- ALL PIPE SHALL BE SCHEDULE SDR 35 OR EQUIVALENT, 4 INCH DIAMETER UNLESS OTHERWISE NOTED.
- ALL NON-PRESSURIZED PIPE SHALL BE SDR 35 OR EQUAL 4 INCH DIAMETER PVC UNLESS OTHERWISE NOTED AND ALL PRESSURIZED PIPE SHALL BE 1.25" DIAMETER SCHEDULE 40 PVC UNLESS OTHERWISE NOTED.
- THE SOIL BETWEEN THE DISPERSAL TRENCHES SHALL REMAIN UNDISTURBED. THE TRENCH SHALL BE EXCAVATED TO ELEVATION 557.50
- THERE ARE NO OTHER KNOWN PUBLIC WELLS, EXISTING OR PROPOSED, WITHIN 500 FEET OF THE PROPOSED SYSTEM, OTHER THAN THOSE SHOWN.
- THERE ARE NO OTHER KNOWN WELLS, EXISTING OR PROPOSED, WITHIN 200 FEET OF THE PROPOSED O.W.T.S. NOR ARE THERE ANY OTHER O.W.T.S.'S, EXISTING OR PROPOSED, WITHIN 100 FEET OF THE PROPOSED WELL, EXCEPT AS NOTED.
- THE SEPTIC TANK SHALL HAVE AN INLET TEE OR BAFFLE AND AN OUTLET TEE.
- THE DISTRIBUTION BOX SHALL HAVE A MINIMUM BOTTOM AREA OF 3 SQUARE FEET.
- THE SURFACE AREA OVER THE O.W.T.S. SHALL BE GRASSED; NO VEHICULAR PARKING OR TRAFFIC SHALL BE ALLOWED OVER THE SYSTEM.

O.W.T.S. DESIGN DATA

3 BEDROOM NEW CONSTRUCTION	
115 GALLONS/BEDROOM	= 345 GALLONS/DAY
SOIL CATEGORY	= 6m
APPLICATION RATE	= 0.70 GAL/S.F./DAY
AREA REQUIRED	= 345 GPD / .70 G/SF/DAY = 493 S.F.
BOTTOM AREA PROVIDED PER IN-DRAIN UNIT	= 28 S.F. / INDRAIN
UNITS REQUIRED	= 493 S.F./28 S.F./UNIT= 18 UNITS
UNITS PROVIDED	= 18 UNITS
TOTAL AREA PROVIDED	= 504 S.F.

INVERT SCHEDULE

DESIGN POINT	EL. 557.5
DESIGN ELEVATION (SHWT)	EL. 554.0
TOP OF FOUNDATION	EL. 562.00
BLD INV. OUT	EL. 559.66
TOP OF TANK	EL. 559.84
SEPTIC TANK IN	EL. 559.26
SEPTIC TANK OUT	EL. 559.01
D-BOX IN	EL. 558.91
D-BOX OUT	EL. 558.75
ELJEN INVERT	EL. 558.58
ELJEN BOTTOM	EL. 558.00
BOTTOM OF SAND	EL. 557.50



BY	
REVISION	
DATE	7/23/18
NO.	1
COMMENTS	

JEFFREY C. HANSON
No. 5238
REGISTERED PROFESSIONAL ENGINEER

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P: (401) 921-3344 F: (401) 921-3303
www.illstoneeng.com

OWTS DETAILS
PROPOSED RESIDENCE
A.P. 47, LOT 26
824-826 CENTRAL PIKE
SCITUATE, RHODE ISLAND
Prepared for:
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SCALE: AS NOTED
JUNE 2018

Drawn By: BJC
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Sheet
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of 2
FILE NO.: 17.308.451

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