

PLAN REFERENCE

UNION PLAT BURRILLVILLE, R.I. BELONGING TO ADELARD H. PAYETTE
BY FRANK E. WATERMAN CO. MAY, 1924.
RECORDED IN BURRILLVILLE IN PLAT BOOK AT PAGE 18.

GROUND WATER & LEDGE DEPTH TABLE

TEST PIT	EXISTING GROUND	ATM DEPTH	ORIGINAL GROUND	GROUNDWATER DEPTH	GROUNDWATER ELEVATION	LEDGE DEPTH	LEDGE ELEVATION
19-01	374.4'	0.8'	373.6'	3.8'	369.8'	8.0'	365.6'
19-02	375.5'	1.3'	374.2'	3.0'	371.2'	8.0'	366.2'
D1	375.0'	4.0'	371.0'	5.0' FROM EXISTING GROUND	370.0'	10.0'	365.0'
D2	375.0'	8.0'	367.0'	5.0' FROM EXISTING GROUND	370.0'	10.0'	365.0'

LOCATION PLAN

SCALE: 1"=1000'

GENERAL NOTES

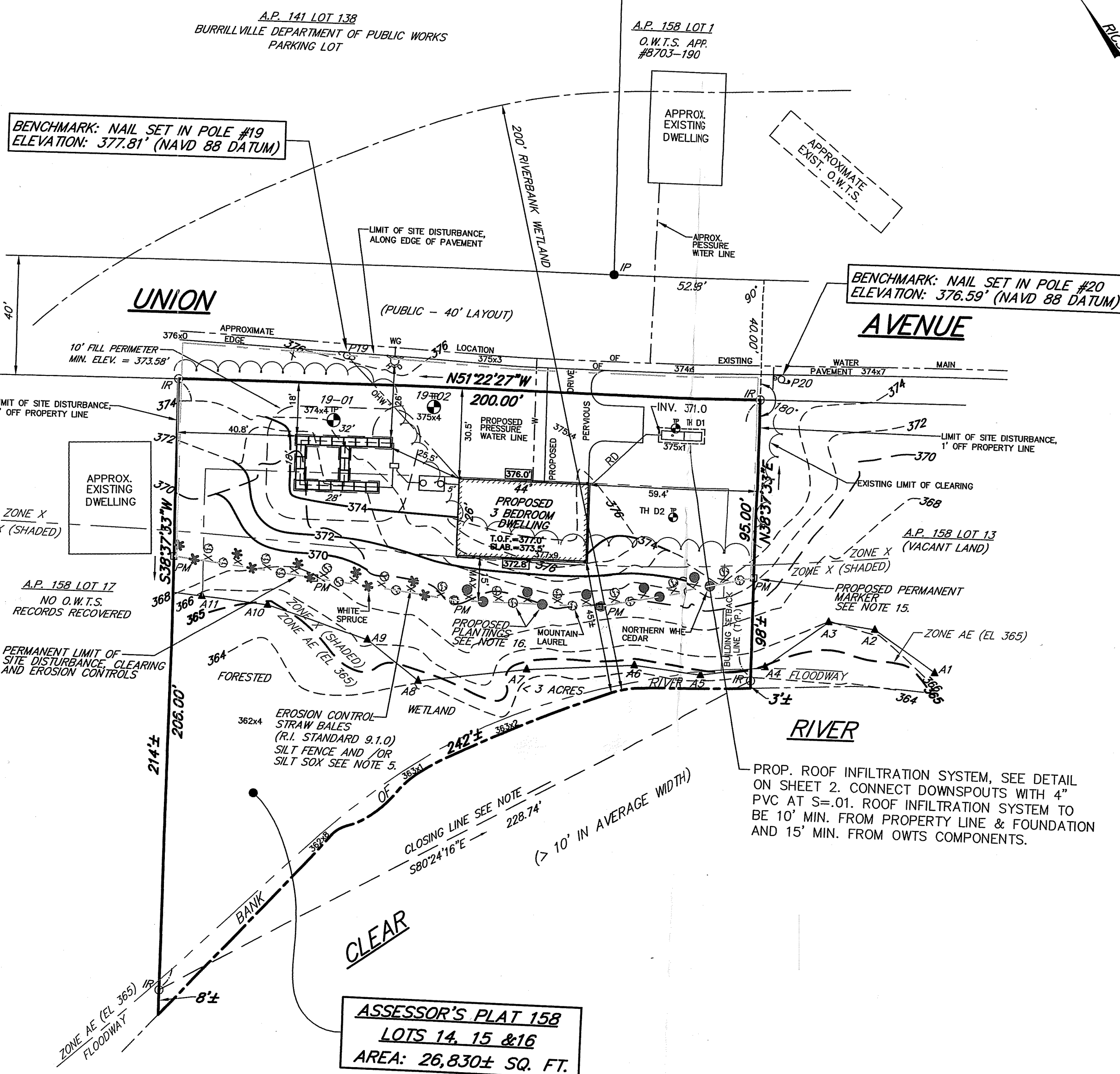
- TOPOGRAPHY AND ELEVATIONS SHOWN ARE FROM AN ON-SITE SURVEY PERFORMED IN FEBRUARY AND MARCH 2020. THE VERTICAL DATUM IS NAVD 88. THE HORIZONTAL DATUM IS NAD 83. BOTH WERE ESTABLISHED THROUGH THE USE OF SURVEY GRADE GLOBAL POSITIONING TECHNOLOGY.
- THE DEVELOPMENT AREA ON THE SITE LIES WITHIN FLOOD HAZARD ZONE X (AREAS DETERMINED TO BE OUTSIDE THE 0.2% ANNUAL CHANCE FLOOD PLAN). OTHER FLOOD HAZARD ZONES ON THE SITE INCLUDE ZONE X (SHADED) (AREAS OF 0.2% ANNUAL CHANCE FLOOD); ZONE AE (ELEVATION 365') (AREAS OF BASE FLOOD ELEVATION DETERMINED); AND A FLOODWAY IN ZONE AE. REFERENCE F.I.R.M. MAP NUMBER 4400701306 DATED MARCH 2, 2009.
- REFER TO SOIL EVALUATION APPLICATION #1903-1628 DATED JANUARY 22, 2020 FOR WATER TABLE DATA.
- THE SITE IS AN UNDEVELOPED RESIDENTIAL LOT.
- STRAW BALE EROSION CHECK (R.I. STANDARD 9.1.0), SILT FENCE AND/OR SILT SOX SHALL BE INSTALLED PRIOR TO EARTH DISTURBING ACTIVITIES AND SHALL BE MAINTAINED UNTIL ALL DISTURBED AREAS ARE PERMANENTLY STABILIZED. THE CONTRACTOR SHALL BE RESPONSIBLE FOR ESTABLISHING AND MAINTAINING ALL TEMPORARY SEDIMENTATION AND EROSION CONTROLS.
- ALL IMPROVEMENTS SHALL BE ACCURATELY LOCATED AND STAKED PRIOR TO THE COMMENCEMENT OF CONSTRUCTION.
- ALL DISTURBED AREAS SHALL BE STABILIZED WITH 4" LOAM AND SEED OR SO2. PROPOSED SLOPES SHALL BE 3:1 (TYPICAL).
- EXISTING UTILITY LOCATIONS ARE APPROXIMATE ONLY. DIG SAFE AND APPROPRIATE UTILITY AUTHORITIES SHALL BE NOTIFIED PRIOR TO ANY CONSTRUCTION FOR ACCURATE UTILITY LOCATIONS.
- ALL WORK SHALL BE PERFORMED IN STRICT CONFORMANCE WITH THE REQUIREMENTS OF THE R.I.D.E.M. WETLANDS PERMIT, O.W.T.S. PERMIT, AND IN COMPLIANCE WITH ALL TOWN REGULATIONS.
- ALL STAGES OF O.W.T.S. CONSTRUCTION MUST BE SUPERVISED BY THE SYSTEM DESIGNER.
- THERE ARE NO EXISTING OR PROPOSED PUBLIC WATER SUPPLY SOURCES WITHIN 500' OF PROPOSED LOT OTHER THAN THOSE SHOWN ON PLAN.
- THERE ARE NO EXISTING OR PROPOSED SEWAGE DISPOSAL SYSTEMS WITHIN 25' OF THE PROPOSED WATER SUPPLY LINE OTHER THAN THOSE SHOWN ON PLAN.
- THERE ARE NO EXISTING OR PROPOSED INDIVIDUAL WATER SUPPLIES WITHIN 200' OF THE PROPOSED ON-SITE WASTEWATER TREATMENT SYSTEM OTHER THAN THOSE SHOWN ON PLAN.
- THE WETLANDS DELINEATION WAS CONDUCTED BY NATURAL RESOURCE SERVICES, INC. IN MARCH, 2020 AND LOCATED IN THE FIELD BY SCITUATE SURVEYS, INC. A COPY OF THE LETTER OF FINDINGS IS ATTACHED AS PART OF THIS APPLICATION.
- PRIOR TO COMMENCEMENT OF ANY SITE ALTERATIONS, PERMANENT BUFFER ZONE MARKERS MUST BE INSTALLED ALONG THE LIMIT OF DISTURBANCE AT THE LOCATIONS INDICATED AS "PM" ON THE APPROVED SITE PLANS, IN ORDER TO PROVIDE PERMANENT REFERENCE POINTS ON THE SITE THAT ARE CLEAR TO PRESENT AND FUTURE PROPERTY OWNERS. A PERMANENT-TYPE TAG OR SIGN LABELED "RIDEEM BUFFER ZONE" MUST BE PLACED ON EACH MARKER. NO ALTERATIONS OF ANY KIND ARE PERMITTED BEYOND THESE MARKERS WITHOUT FIRST OBTAINING THE NECESSARY PERMIT FROM RIDEM.
- INSTALL A DOUBLE ROW OF EVERGREEN SAPLINGS AND SHRUBS ALONG THE LIMITS OF DISTURBANCE. PLANTINGS SHALL CONSIST OF 10 NORTHERN WHITE CEDAR (THUJA OCCIDENTALIS) TO BE PLANTED BEHIND THE PROPOSED DWELLING AND 10 WHITE SPRUCE (PICEA GLAUCA) TO BE PLANTED BEHIND THE PROPOSED DWELLING. 3" TALL SAPLINGS TO BE 4' TALL. IN ADDITION, 20 MOUNTAIN LAUREL (KALUMA LATIFOLIA) SAPLINGS TO BE PLANTED BETWEEN THE SAPLINGS. ALL PLANTINGS SHALL BE BALLED AND BURLAPPED OR IN 2 GALLON CONTAINERS. ONE ROW OF PLANTINGS TO BE ALONG THE LIMIT OF DISTURBANCE. THE SECOND ROW TO BE "STAGGERED" WITH THE FIRST AND OFFSET 4' FROM THE LIMIT OF DISTURBANCE. PLANTS WITHIN EACH ROW SHALL BE SPACED 10' ON CENTER. TOTAL PLANTINGS NUMBER 40. SEE PLAN FOR LOCATIONS.

LEGEND

- A.P. ASSESSOR'S PLAT
- SQ. FT. SQUARE FEET
- EXISTING CONTOUR ELEVATION
- - - PROPOSED CONTOUR ELEVATION
- PROPOSED EROSION CONTROL
- EXISTING SPOT ELEVATION
- PROPOSED SPOT ELEVATION
- EXISTING WATER GATE VALVE
- EXISTING HYDRANT
- EXISTING IRON PIPE FOUND
- IRON ROD SET WITH SURVEY CAP
- WETLANDS DELINEATION FLAG
- SOIL EVALUATION TEST PIPE
- UTILITY POLE
- PROPOSED OVERHEAD WIRES
- NORTHERN WHITE CEDAR
- WHITE SPRUCE
- MOUNTAIN LAUREL
- PROPOSED 4"x4" PRESSURE TREATED POST, 24" (MIN.) ABOVE GROUND

DESIGN CRITERIA

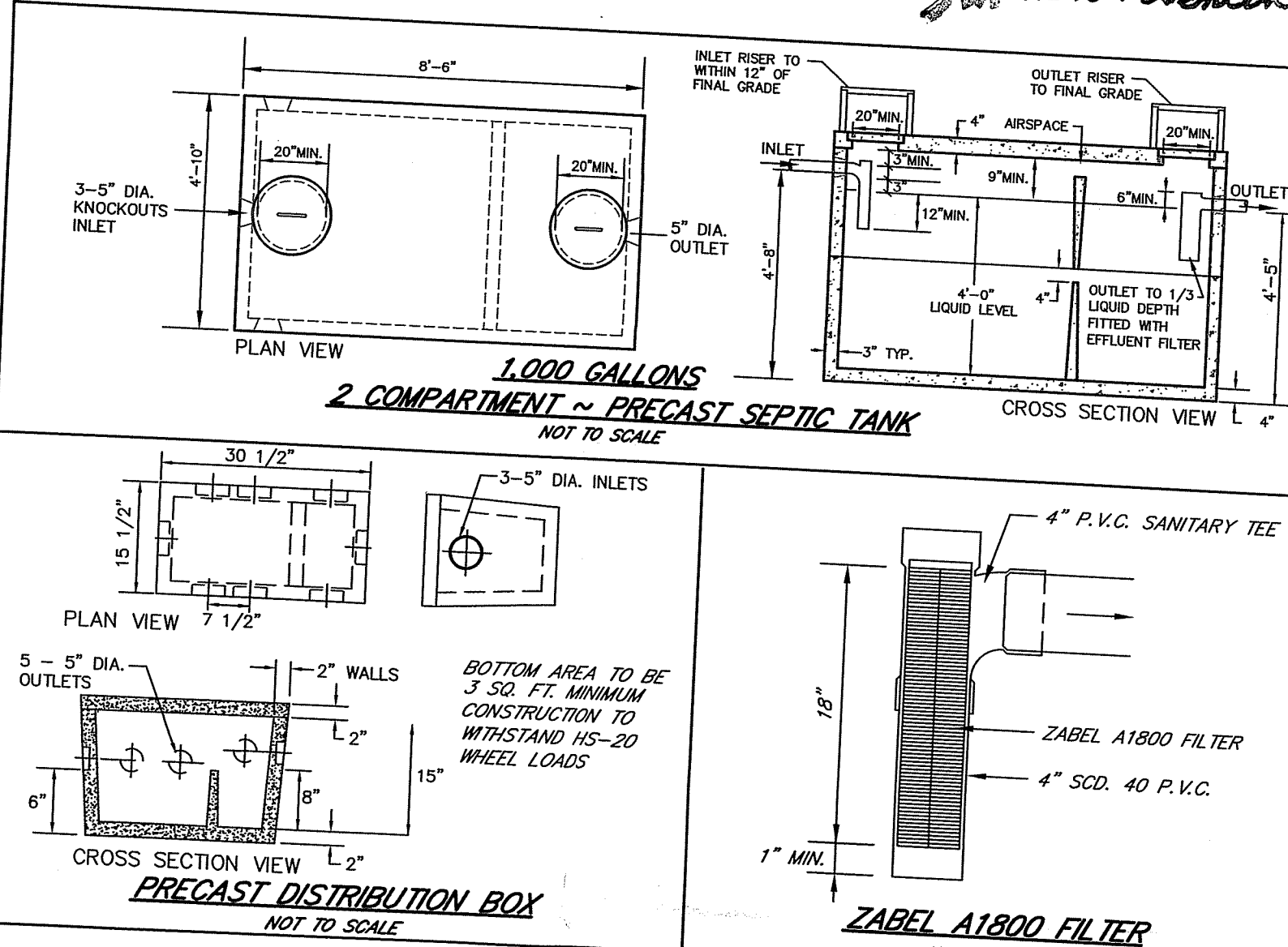
SEWAGE FLOW - 3 BEDROOMS - 115 GALLONS PER BEDROOM UNIT
PERCOLATION RATE - SOIL CATEGORY 1m - .61 GALLONS/SQ. FT./DAY
TOTAL DAILY FLOW:
115 GALLONS/DAY/BEDROOM - 115 X 3 = 345 GALLONS PER DAY
MINIMUM REQUIRED LEACH FIELD AREA:
345 GALLONS PER DAY (MAX.) ÷ .61 GALS./SQ. FT./DAY = 565.6 SQ. FT.
LEACH FIELD AREA PROVIDED: 21 ELEM UNITS X 4 X 7 = 588 SQ. FT.
LEACH FIELD DESIGN POINT: ELEVATION 374.2' ORIGINAL GROUND



ZONE DATA

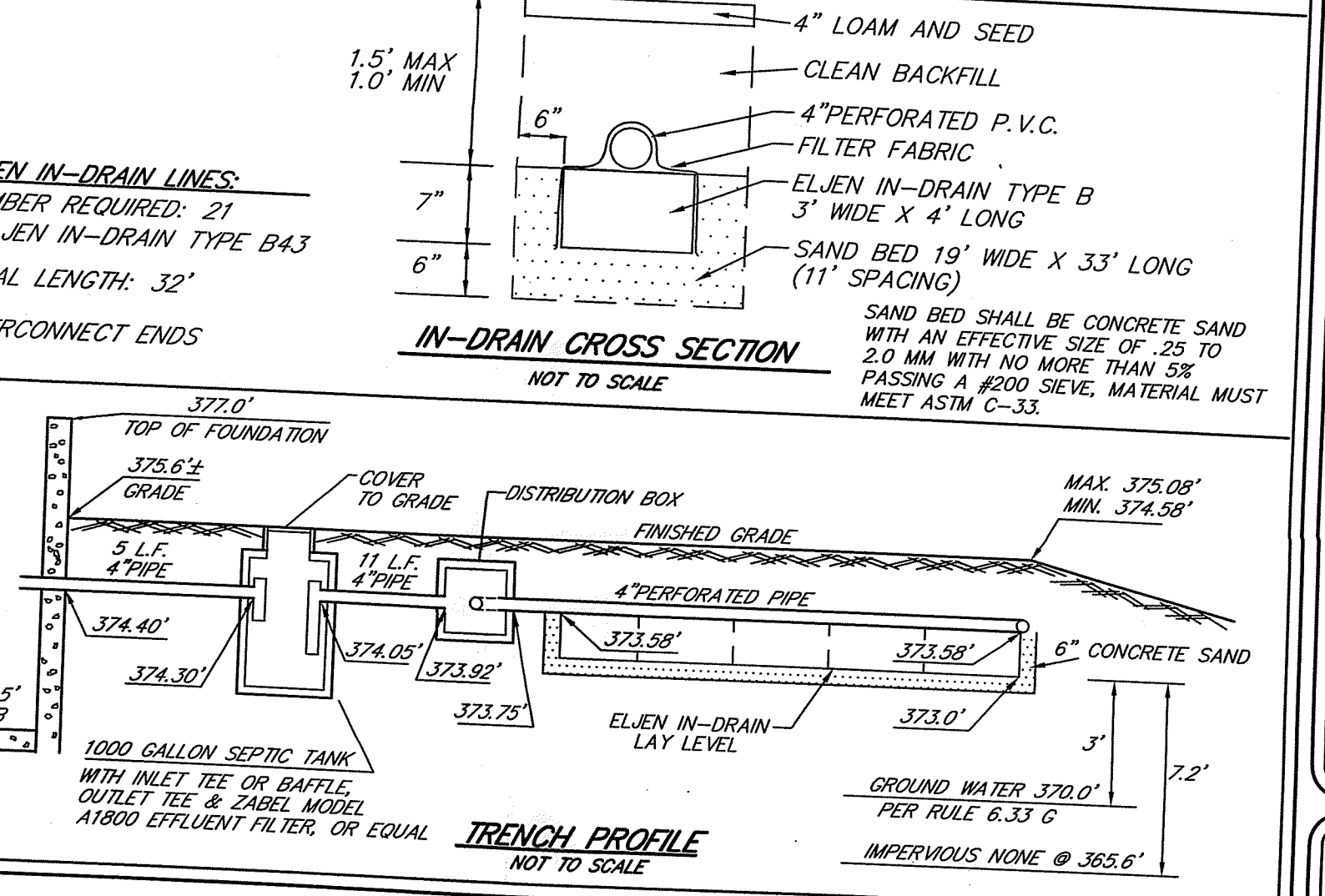
LOTS 14, 15 AND 16 ZONE: R-12 VILLAGE RESIDENTIAL
DIMENSIONAL REGULATIONS FOR SINGLE FAMILY DWELLING
MINIMUM LOT SIZE: 12,000 SQ. FT.
MINIMUM LOT FRONTAGE: 100'
MINIMUM YARD SETBACK:
FRONT 30'
REAR 30'
SIDE 10'
MAXIMUM BUILDING COVERAGE: 25%
MAXIMUM HEIGHT OF STRUCTURE:
MAIN 35'
ACCESSORY 15'

THE ISSUE OF ZONING STATUS OR COMPLIANCE IS A LEGAL OR ADMINISTRATIVE MATTER, NOT A SURVEY MATTER. THE SURVEYOR CANNOT MAKE AN AUTHORITY CONCLUSION REGARDING ZONING STATUS OR COMPLIANCE. INTERPRETATION OF THE ZONING ORDINANCE AND THE AREA CAN BE OBTAINED FROM THE ZONING ENFORCEMENT OFFICIALS. THE POSSIBILITY OF EXISTING VIOLATIONS, NON-COMPLYING USES, DISTRICT OVERLAYS, SUBSTANDARD, ETC. DUE TO CONFLICTING DIMENSIONS OR AREAS, ETC. ANY CONCLUSIONS REGARDING ZONING STATUS OR COMPLIANCE DRAWN FROM THIS SURVEY PLAN MUST BE AT CONSTRUCTION SITE.
OFFICE OF WATER RESOURCES
FRESHWATER WETLANDS PROGRAM
APPROVED WITH CONDITIONS
AS SPECIFIED IN THE LETTER OF APPROVAL
DATED DEC 21 2021 FILE # 21-0171
NO CHANGES ALLOWED WITHOUT PRIOR APPROVAL
APPROVED PLANS MUST BE AT CONSTRUCTION SITE
Martin D. Wenczek



DESIGN AND CONSTRUCTION NOTES:

- ALL WORK SHALL CONFORM TO THE RHODE ISLAND DEPARTMENT OF ENVIRONMENTAL MANAGEMENT RULES AND REGULATIONS, AS AMENDED.
- THE TOP OF FOUNDATION ELEVATION SHOWN HAS BEEN DESIGNED FOR O.W.T.S. PURPOSES ONLY. THE OWNER AND/OR CONTRACTOR IS ADVISED TO DETERMINE WHETHER THE BASEMENT FLOOR OF THE PROPOSED DWELLING IS AT OR BELOW THE GROUND WATER TABLE AND, IF SO, RAISE THE FOUNDATION ACCORDINGLY.
- THE CONTRACTOR SHALL NOTIFY THE DESIGNER OF ANY PROPOSED DEVIATIONS FROM THIS SITE PLAN. THE DESIGNER MUST PERFORM ALL NECESSARY INSPECTIONS, BOTH DURING AND AFTER INSTALLATION, BEFORE ANY COMPONENT OF THE SYSTEM IS COVERED.
- THE PROPERTY BOUNDARIES SHOWN HEREON HAVE BEEN COMPILED FROM MAPS, DEEDS, AND OTHER SOURCES OF INFORMATION, AND ARE SUBJECT TO SUCH MODIFICATIONS AS AN ACTUAL BOUNDARY SURVEY MAY DISCLOSE. TO THE EXTENT THAT SUCH BOUNDARIES ARE CRITICAL TO THE O.W.T.S. LOCATION, THEY MUST BE ESTABLISHED PRIOR TO CONSTRUCTION.
- ALL TREES, STUMPS, AND BRUSH WITHIN A 10' PERIMETER AROUND THE SYSTEM MUST BE CLEARED.
- THE EXCAVATION SHALL BE LEVEL AND SCARIFIED.
- ALL TOPSOIL AND SUBSOIL WITHIN A 5' PERIMETER OF THE SYSTEM SHALL BE STRIPPED AND BACKFILLED WITH CLEAN, COARSE GRAVEL. EXCAVATION INTO IMPERVIOUS MATERIAL IS PROHIBITED UNLESS OTHERWISE APPROVED BY THE DIRECTOR.
- MAINTAIN TRENCH INVERT ELEVATION FOR 10' BEYOND THE PERIMETER OF THE LEACHING FIELD. THE ADJACENT SIDE SLOPE SHALL NOT BE STEEPER THAN 3:1 FOR A 25' MIN. DISTANCE FROM THE EDGE OF LEACH FIELD. MAINTAIN 5" TO PROPERTY LINE OR EQUIVALENT.
- INSTALL CAST IRON PIPE OR EQUIVALENT FROM THE FOUNDATION TO THE SEPTIC TANK. ALL OTHER PIPES MUST BE SDR 35 P.V.C.
- SUBSURFACE DRAINS AND WATER SUPPLY LINE TO BE INSTALLED IN CONFORMANCE WITH DISTANCES SPECIFIED IN TABLE 6.23 B.
- EXISTING AND PROPOSED PRIVATE WELLS WITHIN 500' OF THE SYSTEM ARE SHOWN. ALL KNOWN EXISTING AND PROPOSED SEPTIC SYSTEMS WITHIN 100' OF THE WELL ARE SHOWN.
- ALL WORK MUST CONFORM TO THE REQUIREMENTS OF OTHER EXISTING PERMITS, IF ANY.
- WITH RESPECT TO MUNICIPAL ZONING REQUIREMENTS, THE DESIGNER HAS MADE A REASONABLE EFFORT TO ASCERTAIN THE APPLICABLE DIMENSIONAL SETBACKS AND OTHER CONSTRAINTS TO DEVELOPMENT. DUE, HOWEVER, TO THE POSSIBILITY OF UNRECORDED VARIANCES, NON-COMPLYING USES, AND OTHER RELEVANT DOCUMENTS, IT REMAINS THE RESPONSIBILITY OF THE OWNER TO VERIFY THAT THIS DESIGN SATISFIES LOCAL CODES.
- ALL STAGES OF CONSTRUCTION MUST BE SUPERVISED BY THE DESIGNER OF RECORD. UNLESS WAIVED BY THE DESIGNER, ALL IMPROVEMENTS MUST BE STAKED BY THE DESIGNER OR HIS AGENTS PRIOR TO CONSTRUCTION. THESE INCLUDE THE O.W.T.S., FOUNDATION, WELL, EROSION CONTROLS, CLEARING LIMITS AND ANY OTHER FEATURES DEEMED CRITICAL TO THE DESIGN.



SCOTT F. MOOREHEAD
REGISTERED PROFESSIONAL ENGINEER
No. 4298

DRAINAGE DESIGNER/ENGINEER
S.F.M. ENGINEERING ASSOCIATES
410 TIOGUE AVENUE
COVENTRY, R.I. 02816
(401)826-3736
SCOTT.SFM@ATLANTICBB.NET

DATE	REVISION
3-29-21	DRAINAGE DESIGN

CHK. BY: SFM JOB. NO. SFM887

OWNER/APPLICANT
RICHARD L. JOHNSTON
AND JOAN JOHNSTON
C/O JOHNSTON CORP.
2363 POST ROAD
WARWICK, R.I. 02886

SCITUATE SURVEYS, INC.
410 TIOGUE AVENUE
COVENTRY, R.I. 02816
LAND SURVEYING / MAPPING / SITE PLANNING

THIS SURVEY HAS BEEN CONDUCTED AND THE PLAN HAS BEEN PREPARED IN ACCORDANCE WITH SECTION 5 OF THE RULES AND REGULATIONS OF THE BOARD OF PROFESSIONAL LAND SURVEYORS ON NOVEMBER 25, 2016. THE FOLLOWING INFORMATION IS FOR YOUR INFORMATION:
TYPE OF SURVEY: COMPREHENSIVE BOUNDARY SURVEY
TYPE OF INSTRUMENTS USED: TOTAL STATION
DATA ACQUISITION SURVEY
STANDARD OF CARE: STANDARD OF CARE
PHYSICAL: NONE
ELECTRONIC: NONE
THIS MAP DOES NOT BEAR AN ORIGINAL SIGNATURE AND NOT STAMP.

ANGELLO M. RAJMONDI
1742
PROFESSIONAL LAND SURVEYOR

PLAN OF PROPOSED IMPROVEMENTS TO
ASSESSOR'S PLAT 158
LOTS 14, 15 & 16
UNION AVENUE
BURRILLVILLE, RHODE ISLAND
PREPARED FOR: RICHARD L. JOHNSTON AND JOAN JOHNSTON
DATE: APRIL 8, 2021. REVISION: AUGUST 19, 2021
SCALE: 1"=30'
Office of Water Resources
SEP 03 2021

PROJECT NO.: SS2934 SHEET 1 OF 2
DRAWING NO.: SS4733

PLAN FOR NOTICE

