

ZONING DISTRICT: RA65

SETBACKS: FRONT - 40'
 SIDE - 25'
 REAR - 40'

TEST HOLE DATA

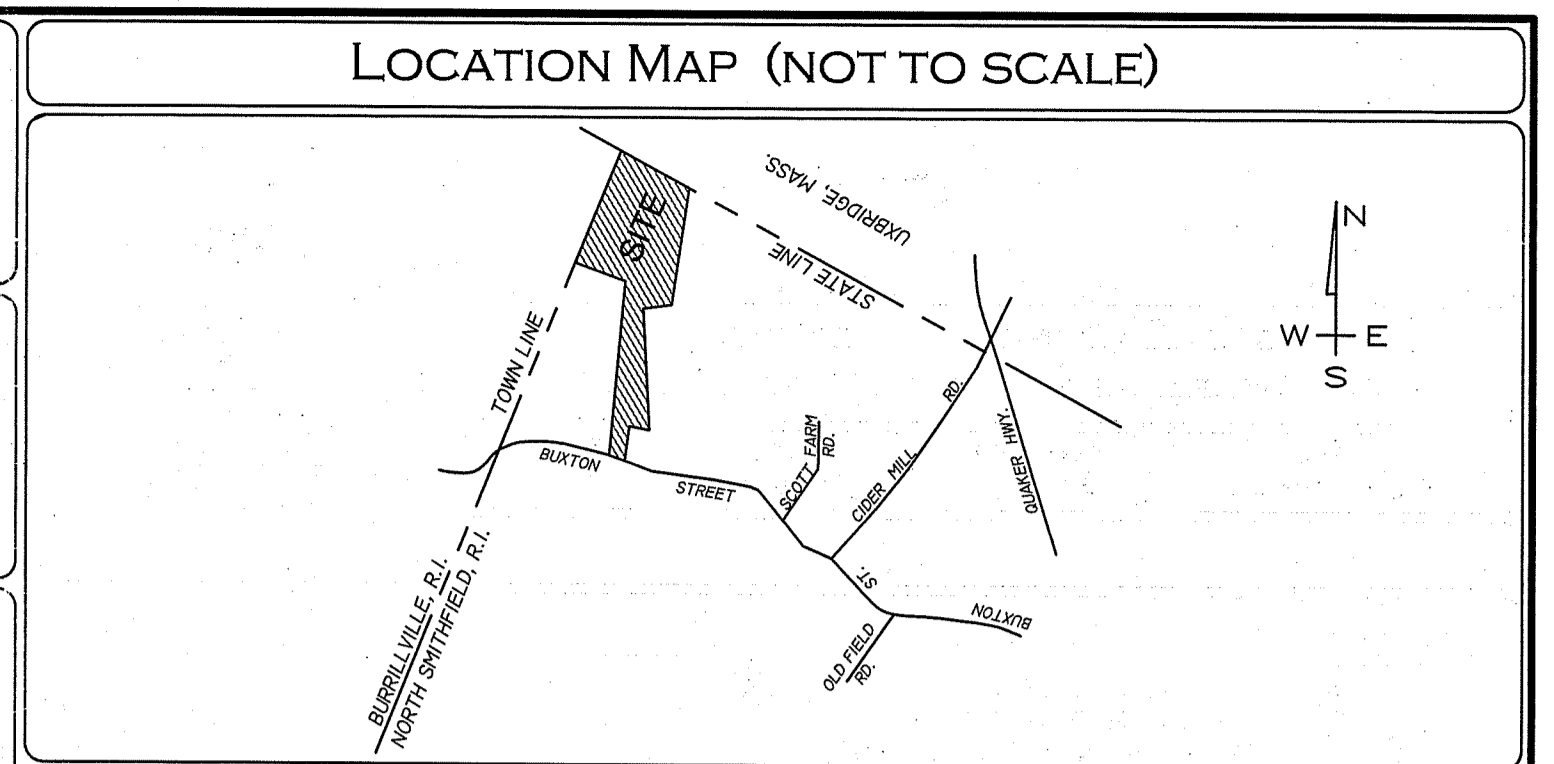
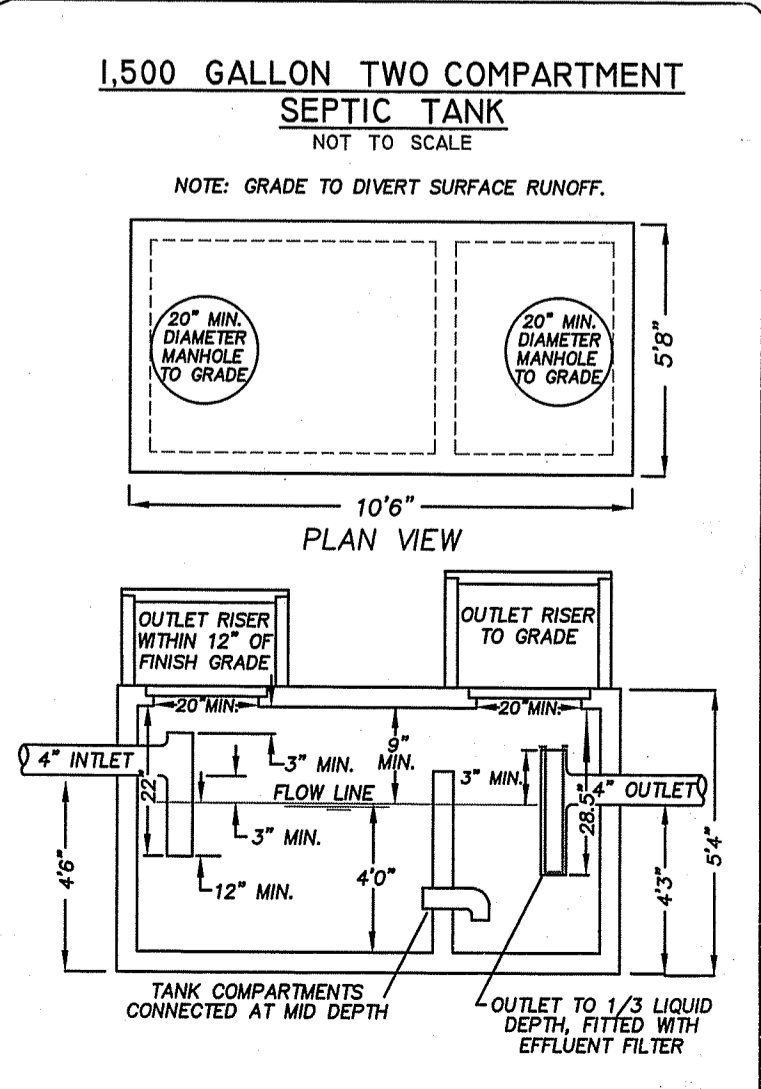
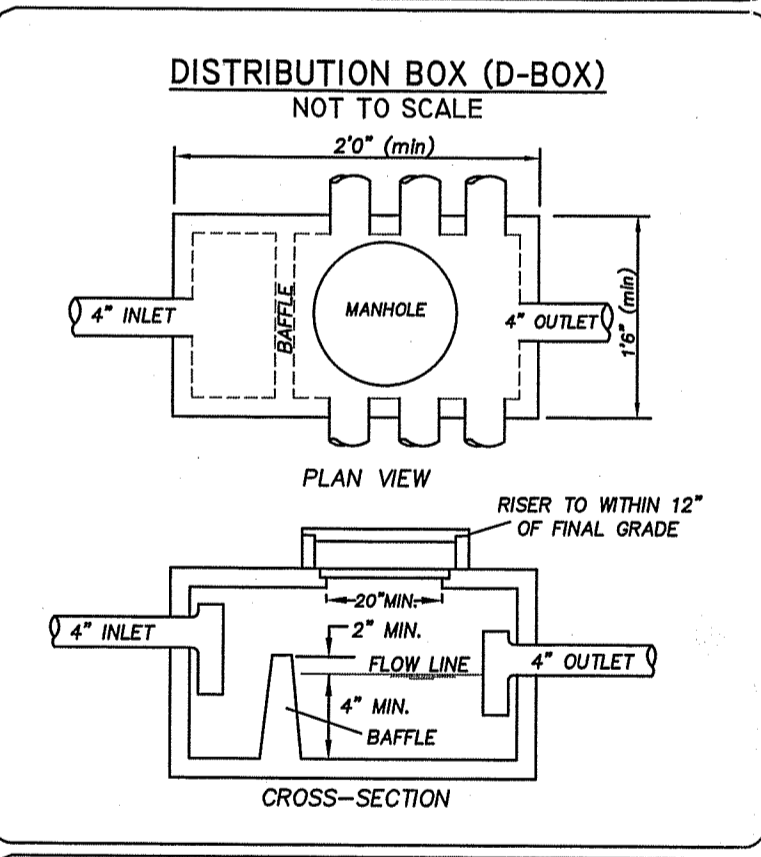
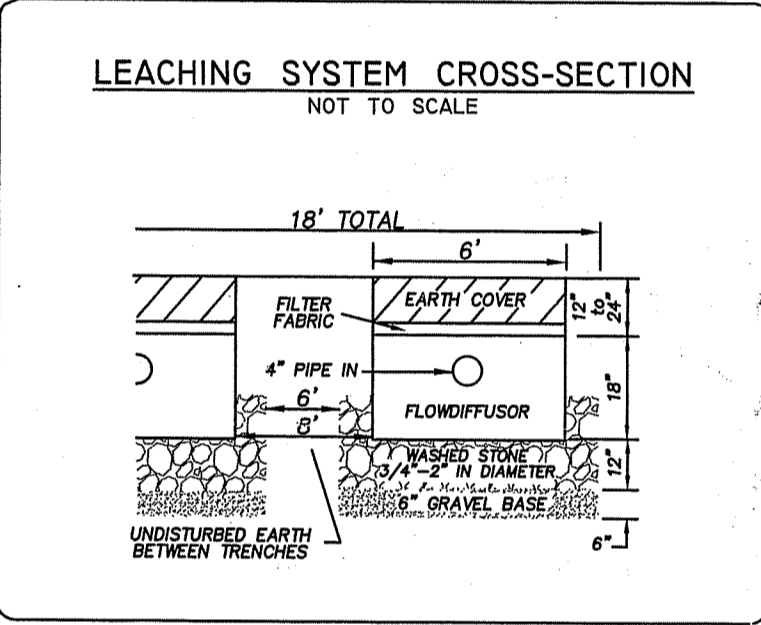
DATE: 11-26-13

TH 1
 0'-4" A, SL, 10YR 2/2
 4'-5" Bw, SL, 7.5YR 5/6
 18"-96" C, CB, G, LCOS 2.5YR 6/4
 96"-120" C2, CB, G, LCOS 5YR 5/3
 ESHWT: 96"
 NO LEDGE 120"
 SOIL CATEGORY: I

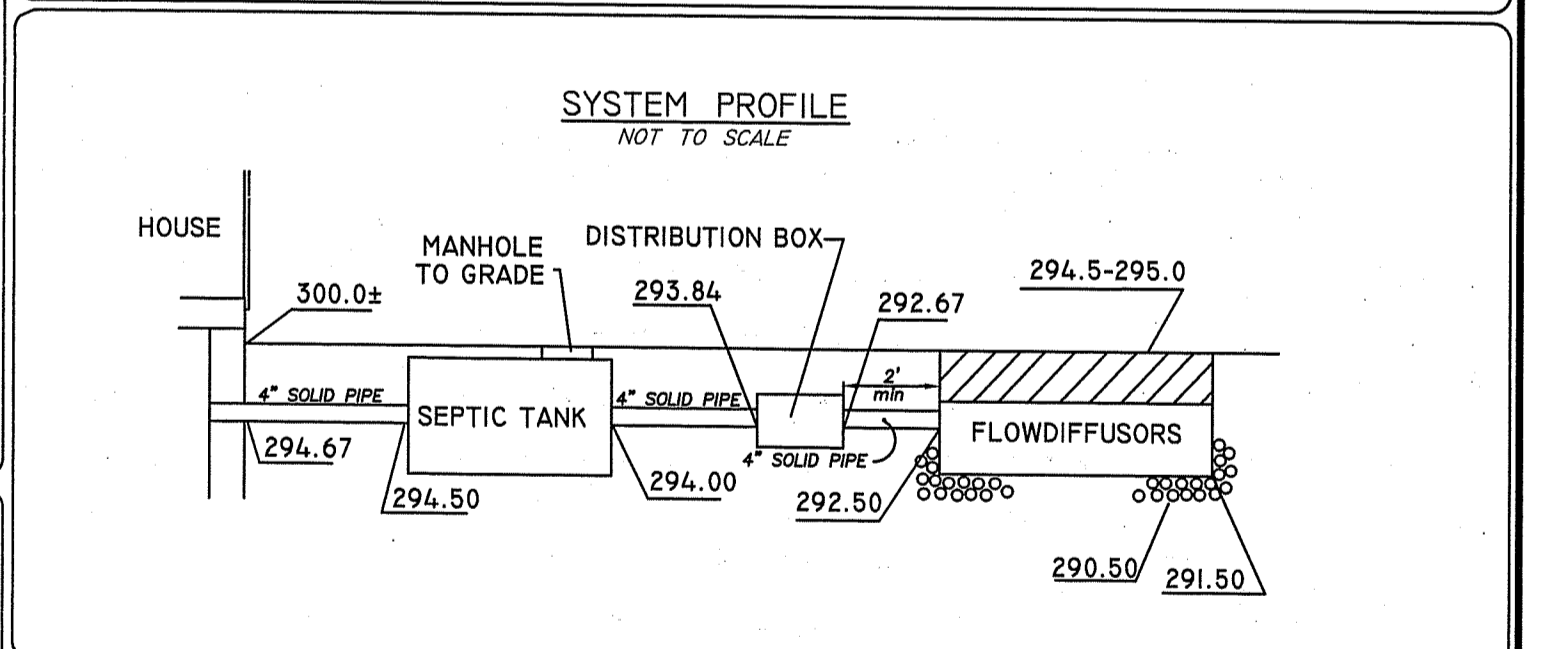
TH 2
 0'-5" A, SL, 10YR 2/2
 5'-17" Bw, SL, 7.5YR 5/6
 17"-94" C, CB, G, LCOS 2.5YR 6/4
 94"-120" C2, CB, G, LCOS 5YR 5/3
 ESHWT: 96"
 NO LEDGE 120"
 SOIL CATEGORY: I

DESIGN CALCULATIONS

5 BEDROOMS = 115 GPD PER BEDROOM = 575 GPD
 SOIL CATEGORY: I
 DESIGN LOADING RATE: 0.70
 575/0.70 = 822 SF
 FIELD SIZE - FLOWDIFFUSORS
 TWO LINES - 12 UNITS TOTAL - 824 SF



- ### NOTES & SPECIFICATIONS:
- LEACHING TRENCHES TO BE EXCAVATED IN ACCORDANCE WITH RIDEM REGULATION 6.33(J). TREES, BRUSH AND STUMPS WITHIN AND EXTENDING 10 FEET BEYOND LEACHFIELD TO BE REMOVED. 5' STRIP DOES NOT APPLY.
 - USE SDR #35 PVC PIPING OR EQUIVALENT THROUGHOUT SYSTEM.
 - NO WELL EXISTS WITHIN 100' OF THE PROPOSED LEACHING SYSTEM.
 - ZABEL EFFLUENT FILTER TO BE INSTALLED AT SEPTIC TANK OUTLET.
 - NO WELLS, EXISTING OR PROPOSED, ARE WITHIN 200' FEET OF OWTS. NO PUBLIC WELLS, EXISTING OR PROPOSED, ARE WITHIN 500' OF THE OWTS UNLESS SHOWN.
 - BRING SEPTIC TANK MANHOLE TO GRADE AND D-BOX MANHOLE TO WITHIN 12" OF GRADE.
 - SEPTIC TANK TO BE A MINIMUM OF 75' FROM ALL WELLS.
 - ENDS OF LINES IN TRENCH TO BE INTERCONNECTED.
 - D-BOX TO HAVE A MINIMUM BOTTOM AREA OF 3 SQUARE FEET AND MEET H-20 WHEEL LOADS WITH MARKER SET TO GRADE.
 - SANITARY TEES TO BE INSTALLED IN SEPTIC TANK.
 - NO DRAINS OF ANY KIND SHALL BE WITHIN 25' UP OR SIDE GRADIENT OR 50' DOWN GRADIENT OF THE LEACHING SYSTEM.
 - 10' FROM LEACHING AREA NOT TO BE LOWER THAN ELEV.: 292.50.
 - COVER OVER SEPTIC TANK TO BE GRADED TO DIVERT SURFACE RUNOFF.
 - D-BOX TO HAVE TEES OR BAFFLE.
 - SYSTEM INSTALLATION TO BE SUPERVISED BY THE DESIGNER.
- RI DEPARTMENT OF ENVIRONMENTAL MANAGEMENT**
OFFICE OF WATER RESOURCES
FRESHWATER WETLANDS PROGRAM
APPROVED WITH CONDITIONS AS SPECIFIED IN THE LETTER OF APPROVAL
 DATED: MAY 12 2023 FILE #: 23-0062
NO CHANGES ALLOWED WITHOUT PRIOR APPROVAL
APPROVED PLANS MUST BE AT CONSTRUCTION SITE



ONSITE WATERSYSTEM TREATMENT SYSTEM DESIGN & WETLANDS PLAN

PAUL D. CARLSON
 No. 7142
 REGISTERED PROFESSIONAL ENGINEER
 CIVIL

ASSESSOR'S PLAT 1 LOT 4
BUXTON STREET, NORTH SMITHFIELD, RI

PREPARED FOR: JOHN GALLAGHER
 2650 VICTORY HIGHWAY, HARRISVILLE, RI 02830

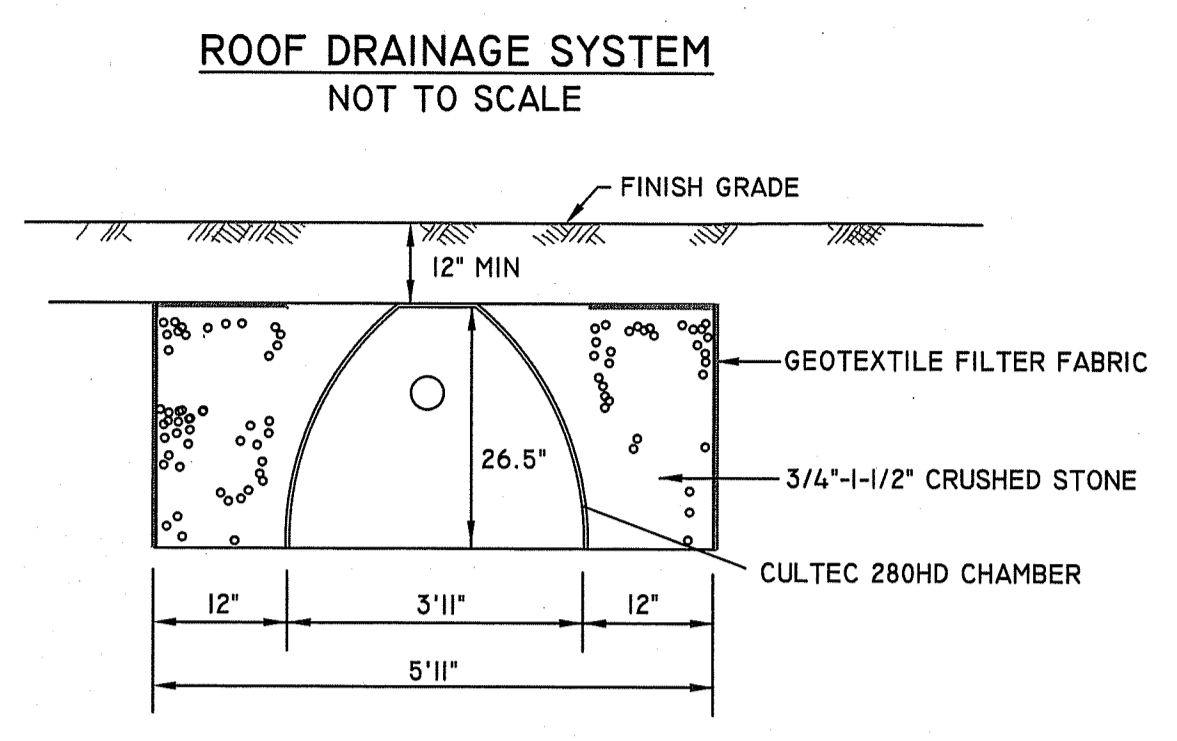
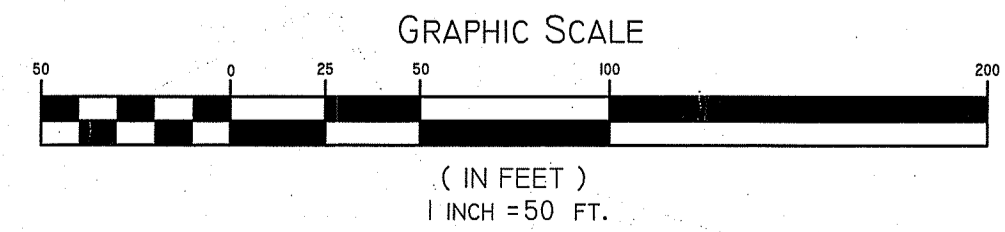
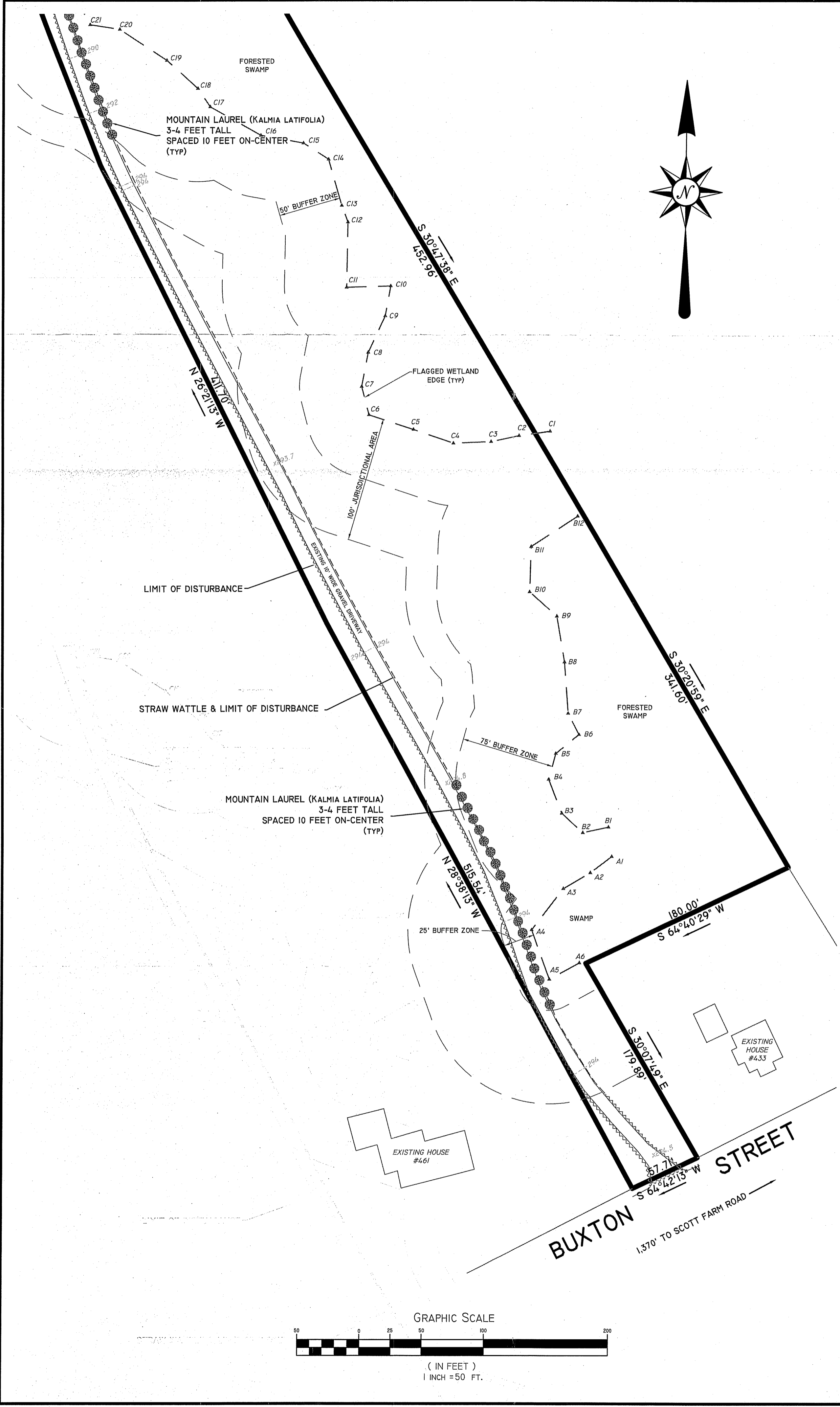
JOB # 11-052 SCALE: 1" = 20' DRAWN BY: LMB DATE: MARCH, 2023

REVISED:

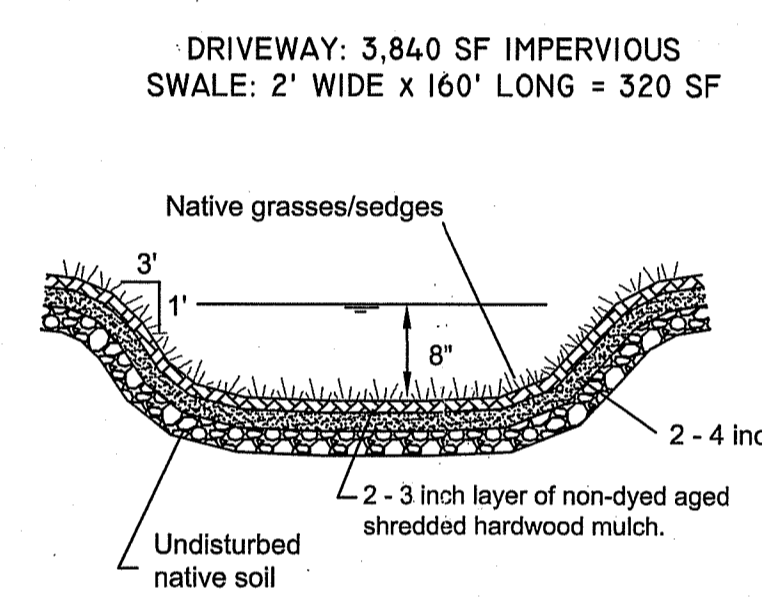
INSITE Engineering Services, LLC
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SHEET 1 OF 2

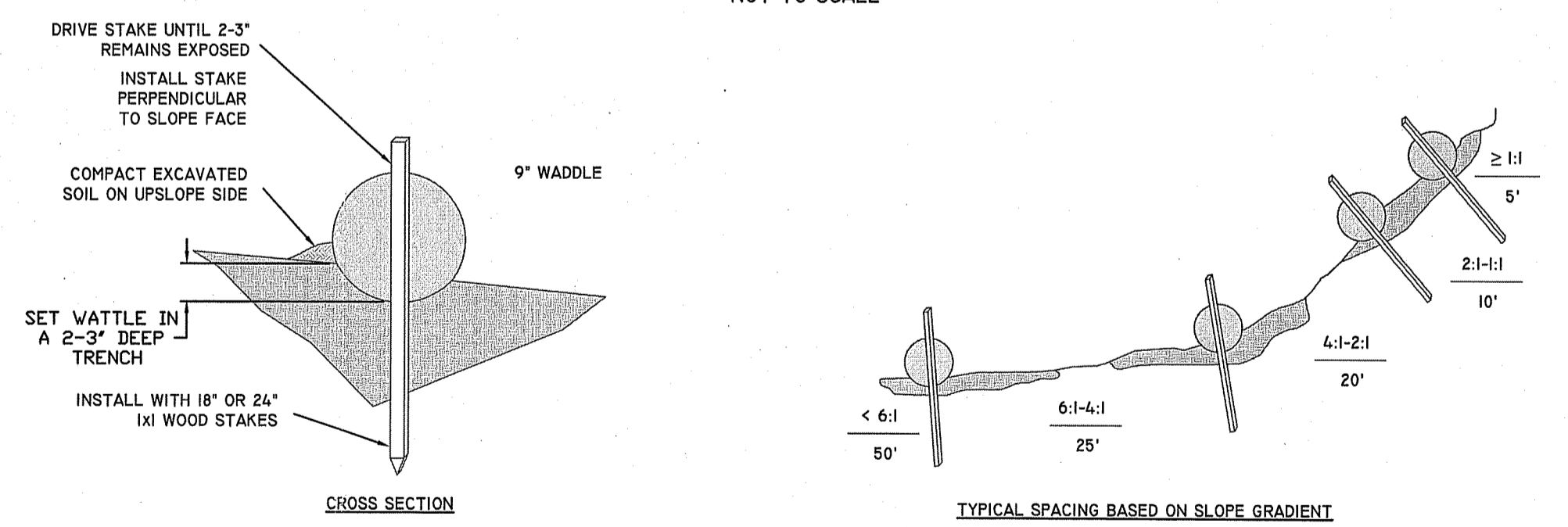


VEGETATED SWALE
NOT TO SCALE



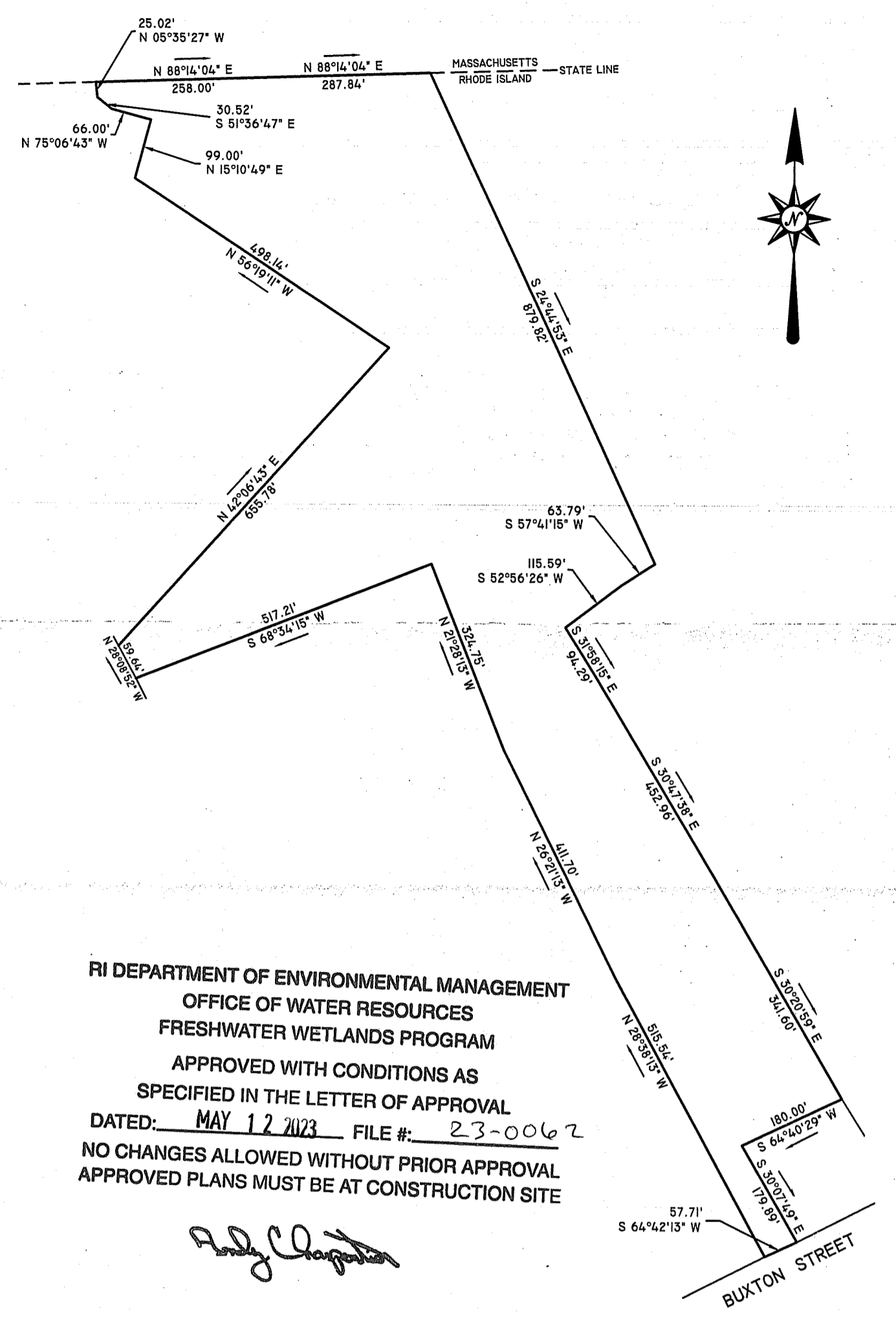
- VEGETATIVE SWALE MAINTENANCE**
1. THE VEGETATED SWALE SHALL BE INSPECTED ANNUALLY AND AFTER LARGE STORM EVENTS.
 2. ERODED SIDE SLOPES AND CHANNEL BOTTOM SHALL BE STABILIZED AS NECESSARY.
 3. IF THE SURFACE OF THE DRY SWALE BECOMES CLOGGED TO THE POINT THAT STANDING WATER IS OBSERVED ON THE SURFACE 48 HOURS AFTER PRECIPITATION EVENTS, THE BOTTOM SHALL BE ROTO-TILLED OR CULTIVATED TO BREAK UP ANY HARD-PACKED SEDIMENT, AND THEN RESEDED.
 4. VEGETATION IN DRY SWALES SHALL BE MOWED AS REQUIRED TO MAINTAIN MINIMUM GRASS HEIGHTS IN THE 4-6 INCH RANGE.
 5. EVERY FIVE YEARS, THE CHANNEL BOTTOM OF DRY SWALES SHOULD BE SCRAPED TO REMOVE SEDIMENT AND TO RESTORE ORIGINAL CROSS SECTION AND INFILTRATION RATE, AND SHOULD BE SEEDED TO RESTORE GROUND COVER, WHERE NECESSARY..

STRAW WATTLE (OR SILT SOCK) DETAIL
NOT TO SCALE

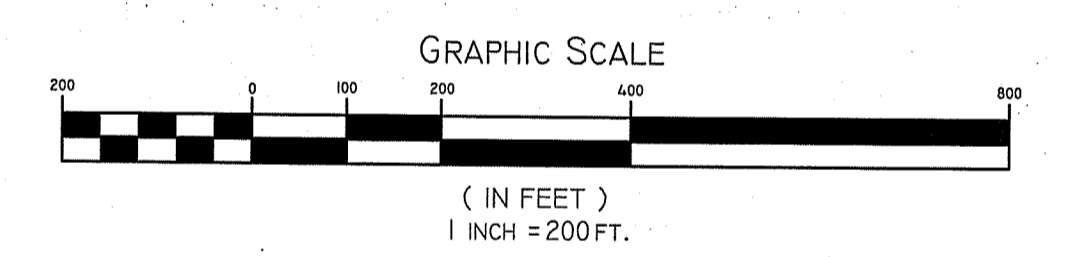


GENERAL NOTES

1. BEGIN AT THE LOCATION WHERE WATTLE IS TO BE INSTALLED BY EXCAVATING 2-3\"/>
2. PLACE THE WATTLE IN THE TRENCH SO THAT IT CONTOURS TO THE SOIL SURFACE. COMPACT SOIL FROM THE EXCAVATED TRENCH AGAINST THE WATTLE ON THE UPHILL SIDE. ADJACENT WATTLES SHOULD TIGHTLY ABUT.
3. SECURE THE WATTLE WITH 18-24\"/>
4. CONTRACTOR IS RESPONSIBLE TO MAINTAIN INTEGRITY OF STRAW WATTLE FOR DURATION OF CONSTRUCTION.
5. EROSION CONTROLS TO REMAIN UNTIL SOIL CONDITIONS STABILIZE.
6. LOOSE HAY TO BE SPREAD ON AREAS OF EXPOSED LOAM & SEED UNTIL GERMINATION AND STABILIZATION OCCURS.



LOCUS MAP



NOTES:

1. PRIOR TO START OF CONSTRUCTION STRAW WATTLE AND ALL OTHER SPECIFIED EROSION CONTROL MEASURES SHALL BE IN PLACE.
2. THE CONTRACTOR SHALL BE REQUIRED TO ESTABLISH AND FULLY MAINTAIN ALL REQUIRED EROSION AND SEDIMENTATION CONTROLS.
3. THE ACCEPTED PLANTING SEASON SHALL BE BETWEEN APRIL 1ST AND OCTOBER 15TH.

DETAIL SHEET	
ASSESSOR'S PLAT 1 LOT 4 BUXTON STREET, NORTH SMITHFIELD, RI	
PREPARED FOR: JOHN GALLAGHER 2650 VICTORY HIGHWAY, HARRISVILLE, RI 02830	
JOB # 11-052	SCALE: AS NOTED
DRAWN BY: LMB	DATE: MARCH, 2023
REVISED: MAR 21 2023	
501 Great Road, Unit 104 North Smithfield, Rhode Island Phone: (401) 762-2870 Fax: (401) 762-2871 Web Address: InsiteEngineers.com	
SHEET 2 OF 2	