

LEGEND

---	APPROXIMATE PROPERTY LINE
---	STONE WALL
---	OVERHEAD WIRE
---	WETLAND EDGE
△	BENCHMARK
△	WETLAND FLAG
⊙	SEWER MANHOLE
⊙	DRAIN MANHOLE/INLET
⊙	UTILITY POLE
⊙	WELL
EM	ELECTRIC METER
+95.6	SPOT ELEVATION

PLAN NOTES

- PROPERTY LINES SHOWN SCALED FROM TAX ASSESSOR'S PL T MAP AND ARE APPROXIMATE.
- SEWER MANHOLE (SEE PLAN) FILLED TO RIM WITH LIQUID ON SEPTEMBER 14, 2016.
- CLIENT/OWNER STATES THAT DRAINAGE CULVERT RUNS FROM DRAIN MANHOLE/INLET (SEE PLAN) TO SWALE; NO OUTLET FOUND.
- UNDERGROUND ELECTRIC SERVICING DWELLING LOCATED ON A.P. 17, LOT 12-1 (NEVILLE) RUNS FROM UTILITY POLE #24 TO NORTHWEST CORNER OF SAID DWELLING.
- UNDERGROUND ELECTRIC SERVICING DWELLING LOCATED ON A.P. 17, LOT 10 (493 OLD TOWN ROAD LLC) RUNS FROM OLD TOWN ROAD TO UTILITY POLE NEAR TO WETLAND FLAG 13A (END) TO SAID DWELLING.

SURVEYOR'S CERTIFICATION

THIS SURVEY HAS BEEN CONDUCTED AND THE PLAN PREPARED PURSUANT TO SECTION 9 OF THE RULES AND REGULATION ADOPTED BY THE RHODE ISLAND STATE BOARD OF REGISTRATION FOR PROFESSIONAL LAND SURVEYORS ON NOVEMBER 25, 2015, AS FOLLOWS:

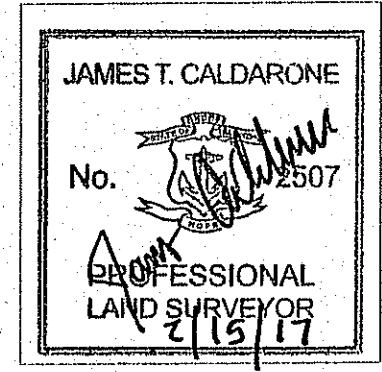
TYPE OF BOUNDARY SURVEY: NOT A BOUNDARY SURVEY
 MEASUREMENT SPECIFICATION: N/A
 DATA ACCUMULATION: CLASS III

STATEMENT OF PURPOSE

THE PURPOSE FOR THE CONDUCT OF THE SURVEY AND FOR THE PREPARATION OF THE PLAN IS AS FOLLOWS:

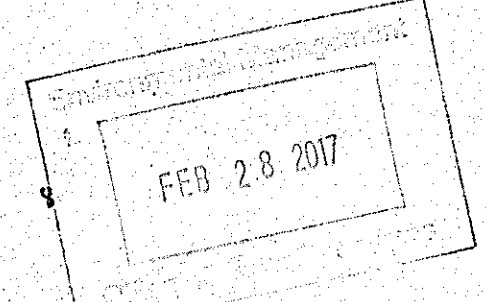
TO SHOW EXISTING CONDITIONS AND TOPOGRAPHY FOR THE DESIGN OF SEWER FORCE MAIN CONNECTIONS AT A.P. 17, LOTS 10, 11 & 12-1 TO AN EXISTING SEWER MANHOLE IN OLD TOWN ROAD IN THE TOWN OF NEW SHOREHAM, RI.

BY: *James T. Caldaroni* 2/15/17
 JAMES T. CALDARONE, PLS NO. 2507
 CDA NO. 722

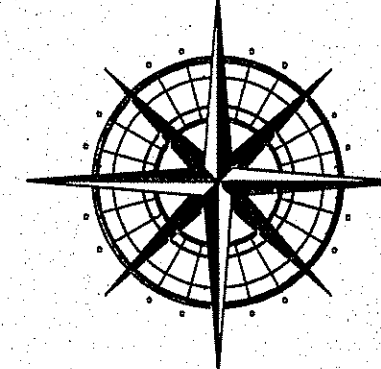


DEPARTMENT OF ENVIRONMENTAL MANAGEMENT
 OFFICE OF WATER RESOURCES
 PREPARED FOR: HAROLD HATFIELD ET. ALS.
 APPROVED WITH CONDITIONS
 AS SPECIFIED IN THE LETTER OF APPROVAL
 DATED JUN 5 2017 FILE # 17-0045
 NO CHANGES ALLOWED WITHOUT PRIOR APPROVAL
 APPROVED PLANS MUST BE AT CONSTRUCTION SITE

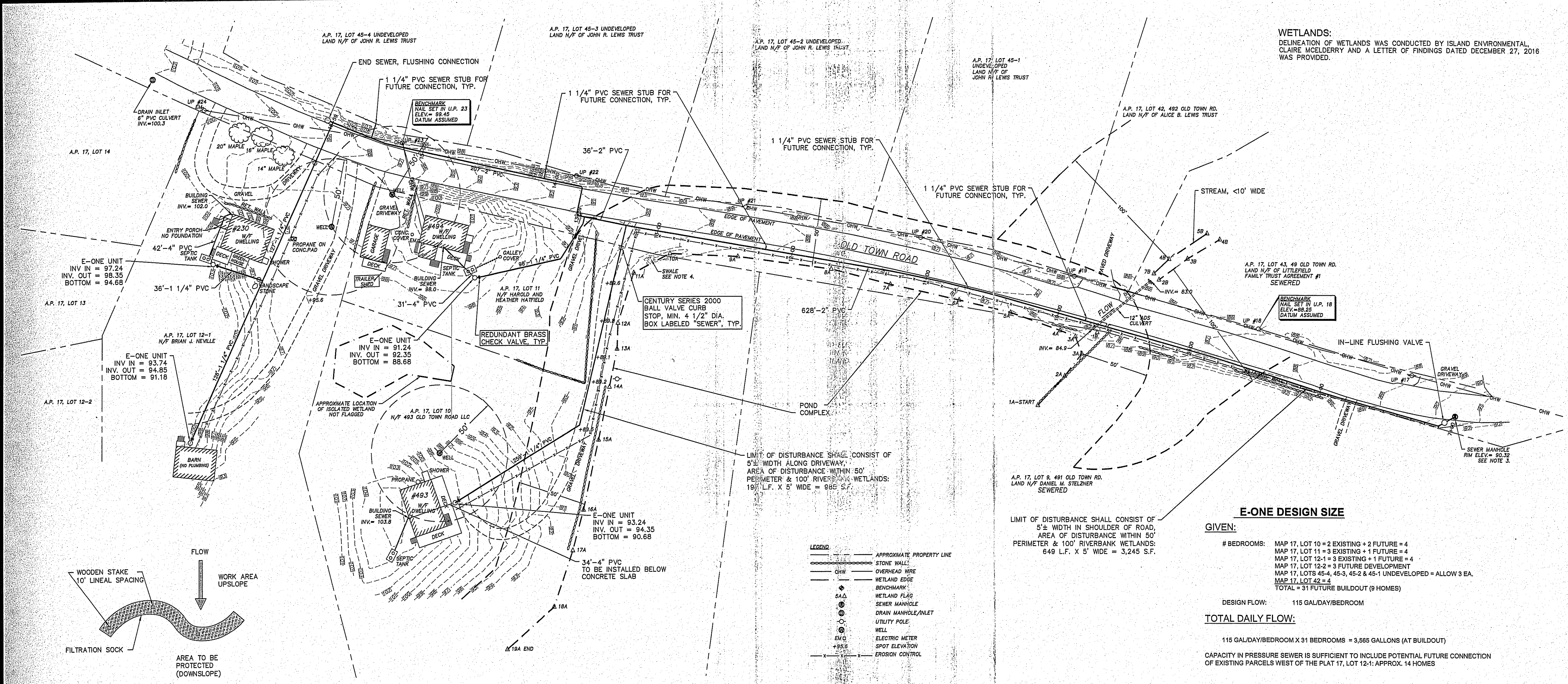
Nully L. Freeman



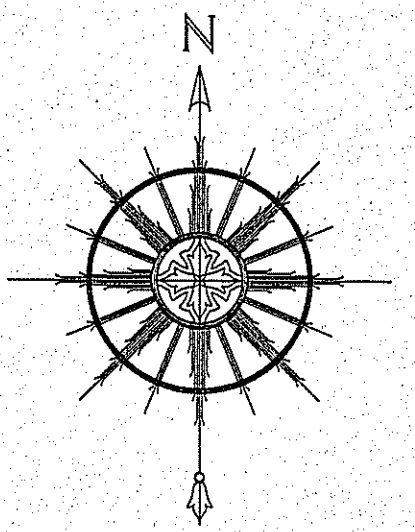
EXISTING CONDITIONS SURVEY PLAN
 IN THE TOWN OF NEW SHOREHAM, RHODE ISLAND
 A.P. 17, LOTS 10, 11 & 12-1, OLD TOWN ROAD
 PREPARED FOR: HAROLD HATFIELD ET. ALS.
 SEPTEMBER 30, 2016 SCALE: 1"=30'
 REVISED: OCTOBER 12, 2016
 REVISED: NOVEMBER 17, 2016
 REVISED: JANUARY 3, 2017



SOUTH COUNTY SURVEY Co
 PO Box 2, Charlestown, RI 02813
 (401) 364-9405
 www.SouthCountySurvey.com



WETLANDS:
 DELINEATION OF WETLANDS WAS CONDUCTED BY ISLAND ENVIRONMENTAL CLARE MCLEDDERY AND A LETTER OF FINDINGS DATED DECEMBER 27, 2016 WAS PROVIDED.



- PROPOSED CONSTRUCTION:**
1. AN E-ONE PRESSURE SEWER CONNECTION IS PROPOSED FOR THE THREE RESIDENCES SHOWN ON THIS PLAN WITH STUBS LEFT FOR FUTURE CONNECTION AS REQUIRED BY THE TOWN OF NEW SHOREHAM.
 2. EXISTING GRAVITY BUILDING SEWERS MAY BE UTILIZED TO THE EXTENT POSSIBLE WITH A WYE CONNECTION NEAR THE E-1 CHAMBER TO THE SPECIFIED INLET INV. SHOWN.
 3. EXISTING SEPTIC TANKS AND LEACHING FIELDS SHALL BE PUMPED, FILLED WITH CLEAN FILL AND ABANDONED IN PLACE.

- GENERAL:**
1. THE CONTRACTOR IS REQUIRED TO MAINTAIN THE CONSTRUCTION AREA IN A SAFE MANNER AND ALL CONSTRUCTION ACTIVITY ON THE SITE IN ACCORDANCE WITH ALL APPLICABLE LOCAL, STATE AND FEDERAL REGULATIONS.
 2. SYSTEM SHALL BE INSTALLED AS PER THE CURRENT 'NEW SHOREHAM, RHODE ISLAND UTILITIES STANDARDS (SANITARY SEWER REQUIREMENTS)'.
 3. EDGE OF CLEARING SHOWN IS FROM TOWN GIS DATE/AERIAL PHOTO.
 4. FOLLOWING CONSTRUCTION ALL DISTURBED AREAS SHALL BE RESTORED TO EXISTING GRADE AND VEGETATED PER EROSION AND SEDIMENTATION NOTES.

- MATERIALS SPECIFICATIONS:**
1. MATERIALS USED SHALL BE IN ACCORDANCE WITH THE CURRENT 'NEW SHOREHAM, RHODE ISLAND UTILITIES STANDARDS (SANITARY SEWER REQUIREMENTS)'.
 2. GRINDER PUMP SHALL BE MODEL DH152 WITH REDUNDANT CHECK VALVE AND ACCESSARY AS REQUIRED AND CONTROL PANEL MOD 150-4 OR MOD 160-Y AS MANUFACTURED BY ENVIRONMENTAL ONE CORPORATION (E-ONE). A HIGH LEVEL INDICATOR LAMP ASSEMBLY SHALL BE PROVIDED REQUIRING 120 VOLTS AND A DECORATIVE WALL PLATE MARKED "GRINDER PUMP MONITOR". HIGH LEVEL INDICATOR LAMP SHALL BE INSTALLED IN A STANDARD DEVICE BOX IN A VISIBLE LOCATION IN THE INTERIOR OF THE DWELLING OF THE DWELLING.
 3. LOW PRESSURE PIPE SHALL BE PVC PIPE CLASS 200 (SDR 21) WITH PUSHON JOINTS. BELL SHALL BE GASKETED JOINT CONFORMING TO ASTM D3139 WITH GASKETS CONFORMING TO ASTM F477. SCHEDULE 80 PVC PIPE AND FITTINGS SHALL BE RIGID UNPLASTICIZED, TYPE I, GRADE 1, PVC CONFORMING TO ASTM D1784, NSF LISTED.
 4. MANUAL TRANSFER SWITCH SHALL BE A DOUBLE THROW NON-FUSE, 3-POLE SQUARE "D" 30 AMP ENCLOSED IN A NEMA3R ENCLOSURE. THE GENERATOR HOOKUP SHALL BE A SINGLE OUTLET (2P-3 WIRE) TWIST LOCK WITH A WEATHERPROOF COVER PLATE NEMA L6-30 OR WITH A 12-2 WITH GROUND POWER SUPPLY CORD CONNECTED TO THE TRANSFER SWITCH WITH A MALE PLUG. ALL MATERIALS SHALL BE U.L. LISTED, PVC CONDUITS, CONDUIT WALL SEALS AND CONDUCTORS-COPPER AND SHALL BE ACCEPTABLE TO THE ELECTRICAL INSPECTOR.

- OPERATION AND MAINTENANCE:**
1. A TWO YEAR OPERATION AND MAINTENANCE SERVICE CONTRACT FOR THE PUMPING UNIT SHALL BE OBTAINED BY THE CONTRACTOR OR DWELLING OWNER FOR EACH UNIT AND SUBMITTED TO THE SEWER SUPERINTENDENT PRIOR TO RECEIVING A PERMIT FOR INSTALLATION.

UTILITIES:
 THE LOCATION OF EXISTING UTILITIES SHOWN ON THIS PLAN ARE APPROXIMATE ONLY AND HAVE BEEN SHOWN USING THE BEST AVAILABLE DATA.

THE CONTRACTOR SHALL CONTACT 'DIG-SAFE' AND/OR OTHER APPROPRIATE UTILITY COMPANIES TO ASCERTAIN THE EXACT LOCATION OF THE RESPECTIVE UTILITY PRIOR TO CONSTRUCTION.
 UTILITIES INCLUDE BUT ARE NOT LIMITED TO GAS, ELECTRIC, WATER, TELEPHONE CABLE TV, ETC.

E-ONE DESIGN SIZE

GIVEN:

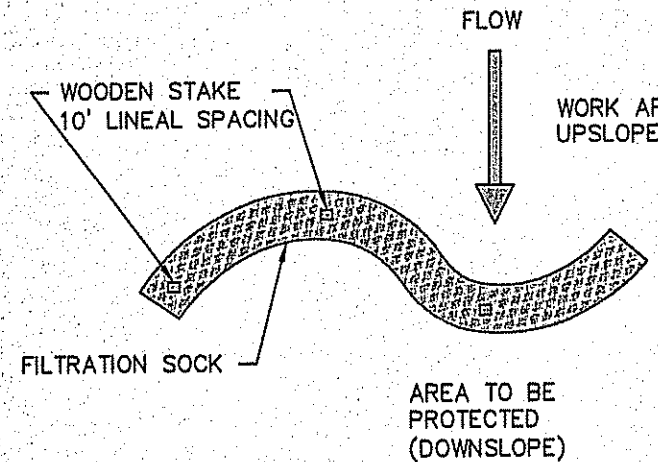
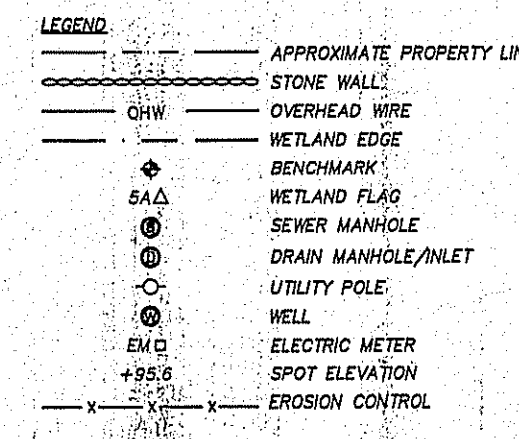
BEDROOMS: MAP 17, LOT 10 = 2 EXISTING + 2 FUTURE = 4
 MAP 17, LOT 11 = 3 EXISTING + 1 FUTURE = 4
 MAP 17, LOT 12-1 = 3 EXISTING + 1 FUTURE = 4
 MAP 17, LOT 12-2 = 3 FUTURE DEVELOPMENT
 MAP 17, LOTS 45-4, 45-3, 45-2 & 45-1 UNDEVELOPED = ALLOW 3 EA.
 MAP 17, LOT 42 = 4
 TOTAL = 51 FUTURE BUILDOUT (9 HOMES)

DESIGN FLOW: 115 GAL/DAY/BEDROOM

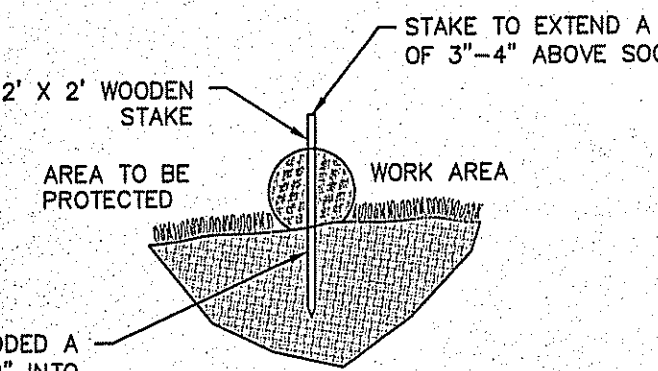
TOTAL DAILY FLOW:

115 GAL/DAY/BEDROOM X 31 BEDROOMS = 3,565 GALLONS (AT BUILDOUT)

CAPACITY IN PRESSURE SEWER IS SUFFICIENT TO INCLUDE POTENTIAL FUTURE CONNECTION OF EXISTING PARCELS WEST OF THE PLAT 17, LOT 12-1: APPROX. 14 HOMES



PLAN VIEW



CROSS-SECTION

FILTRATION SOCK DETAIL
 NOT TO SCALE

EROSION AND SEDIMENTATION CONTROL NOTES:

TEMPORARY AND/OR PERMANENT EROSION CONTROL DEVICES SUCH AS BALED HAY, SILT FENCING, FILTRATION SOCK, ETC. SHALL BE INSTALLED PRIOR TO ANY CLEARING OR EXCAVATION. HAY BALES OR SILT FENCING SHALL BE PLACED IMMEDIATELY DOWN SLOPE AND ADJOINING AREAS OF SOIL DISTURBANCE AND STOCKPILES. INSTALLATION OF ALL EROSION CONTROL DEVICES SHALL BE CONDUCTED IN ACCORDANCE TO DETAIL SPECIFICATIONS.

CLEARING OF EXISTING VEGETATION SHALL BE DONE IN A CONTROLLED MANNER SO AS TO AVOID EXTENSIVE AREAS OF DEFOLIATED TERRAIN SUBJECT TO EROSION. AREAS SO DISTURBED SHALL BE BROUGHT TO FINAL GRADES AND STABILIZED AS SOON AS POSSIBLE.

DURING CONSTRUCTION THE CONTRACTOR SHALL BE RESPONSIBLE FOR MAINTAINING DRAINAGE AND RUNOFF FLOW DURING STORMS AND PERIODS OF RAINFALL.

ALL EROSION CONTROL DEVICES SHALL BE INSPECTED AND MAINTAINED ON A REGULAR BASIS DURING CONSTRUCTION, ESPECIALLY AFTER EACH RAINFALL.

DUE TO CHANGING CHARACTERISTICS OF THE SITE CAUSED BY AND DURING CONSTRUCTION ADDITIONAL EROSION CONTROL MEASURES MAY BE REQUIRED AS SITE CONDITIONS WARRANT.

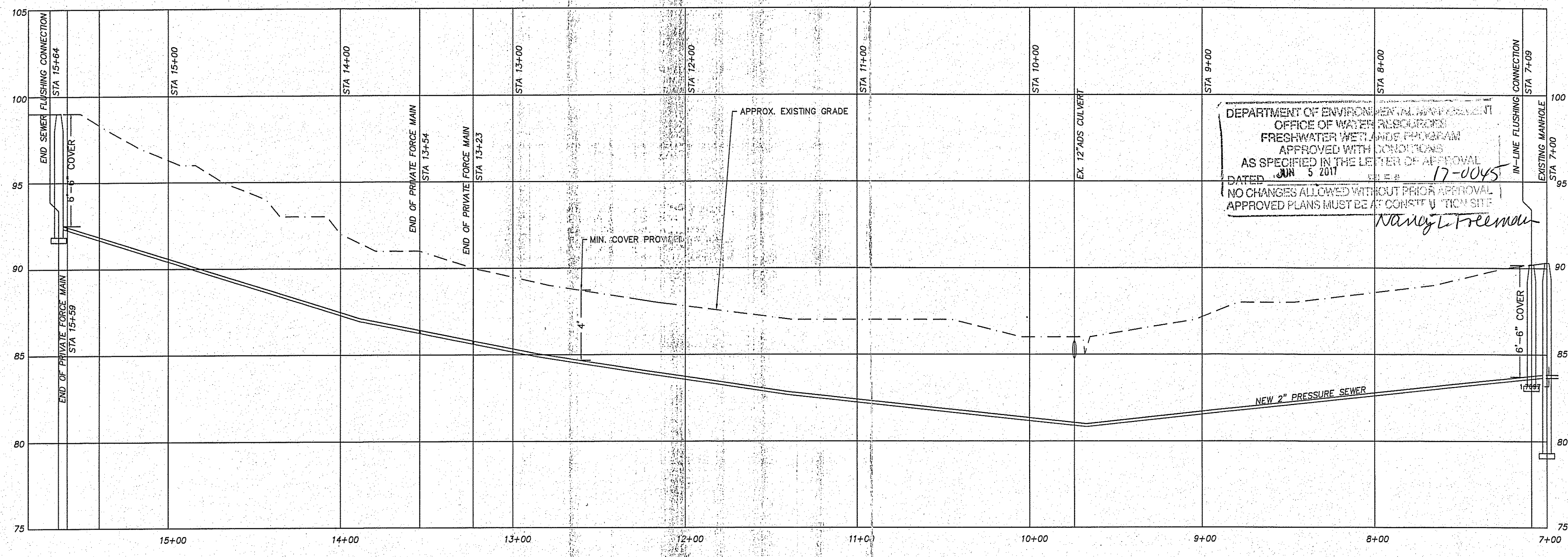
IF CONSTRUCTION IS SUSPENDED, ALL DISTURBED AREAS SHALL BE SEEDED AND ALL NECESSARY EROSION CONTROL DEVICES SHALL BE IN PLACE AND IN GOOD WORKING ORDER. IF SEEDED IS NOT POSSIBLE THEN EROSION CONTROL MATS SHALL BE PLACED OVER ALL DISTURBED SOIL.

EROSION CONTROL BLANKETS (MATS) SHALL BE INSTALLED ACCORDING TO THE MANUFACTURER'S RECOMMENDATIONS. EROSION CONTROL BLANKETS (MATS) SHALL BE MANUFACTURED BY NORTH AMERICAN GREEN) OR APPROVED EQUIVALENT AND INSTALLED ACCORDING TO THE MANUFACTURER'S RECOMMENDATIONS.

ALL EROSION CONTROL METHODS, MATERIALS AND MAINTENANCE SHALL BE DONE IN ACCORDANCE WITH THE "RHODE ISLAND SOIL EROSION AND SEDIMENT CONTROL HANDBOOK".

ALL AREAS WHICH ARE DISTURBED DURING CONSTRUCTION ARE TO BE BROUGHT TO FINISHED GRADE WITH AT LEAST 1" MINIMUM DEPTH OF GOOD QUALITY LOAM AND ALL SOIL AMENDMENTS DEEMED NECESSARY. THE AREA SHALL BE SEEDED WITH A QUICK GERMINATING GRASS SEED SUCH AS URI #2 OR APPROVED EQUIVALENT.

THE CONTRACTOR SHALL PROVIDE FOR ALL SEEDED AREAS TO BE WATERED AND IN GOOD CONDITION UNTIL A GOOD HEALTHY AND UNIFORM GROWTH IS ESTABLISHED OVER THE ENTIRE AREA.



PROFILE
 HORIZONTAL SCALE: 1" = 40'
 VERTICAL SCALE: 1" = 4'

DEPARTMENT OF ENVIRONMENTAL MANAGEMENT
 OFFICE OF WATER RESOURCES
 FRESHWATER WETLANDS PROGRAM
 APPROVED WITH CONDITIONS
 AS SPECIFIED IN THE LETTER OF APPROVAL
 DATED JUN 3 2017
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Nancy L. Freeman

CJ DOYLE, P.E.
 CIVIL ENGINEERING

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 OFFICE LOCATION: 1122 MAIN STREET, WYOMING, RI
 PHONE (401) 481-9530
 cjd@cox.net

NO.	DATE	DESCRIPTION	BY

DRAWING TITLED:
PRESSURE SEWER EXTENSION
PLAN & PROFILE STA 7+00 TO STA 15+64

LOCATED ON:
 LOTS 10, 11 & 12-1 PLAT 17

OWNED BY:
HEATHER & HAROLD HATFIELD, (LOT 11)

ADDRESS:
 230, 493 & 494 OLD TOWN ROAD
 IN THE TOWN OF NEW SHOREHAM, RI

JANUARY 31, 2017
 DESIGNED BY: CAROLYN J. DOYLE, P.E.
 SCALE: 1" = 40'

DRAWN BY: CJD CHECKED BY: CJD
 DRAWING NO. SHEET 2 OF 3

CAROLYN J. DOYLE
 No. 5078
 REGISTERED PROFESSIONAL ENGINEER

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