

NEW ENGLAND AUTO CHATEAU PROPOSED SITE PLAN AND DRAINAGE DESIGN

NOOSENECK HILL ROAD EXETER, RHODE ISLAND ASSESSOR'S PLAT 20 BLOCK 4 LOT 17

APPLICANT/OWNER

Leroy & Landon Kendricks
Address: 53 Rhododendron drive
Tiverton
Rhode Island, 02878

PROJECT SURVEYOR

Samuel R. Suorsa, PLS
Company: Coventry Survey Co.
Address: 46 South Main Street
Coventry
Rhode Island, 02816
Phone: (401) 823-5028

PROJECT ENGINEER

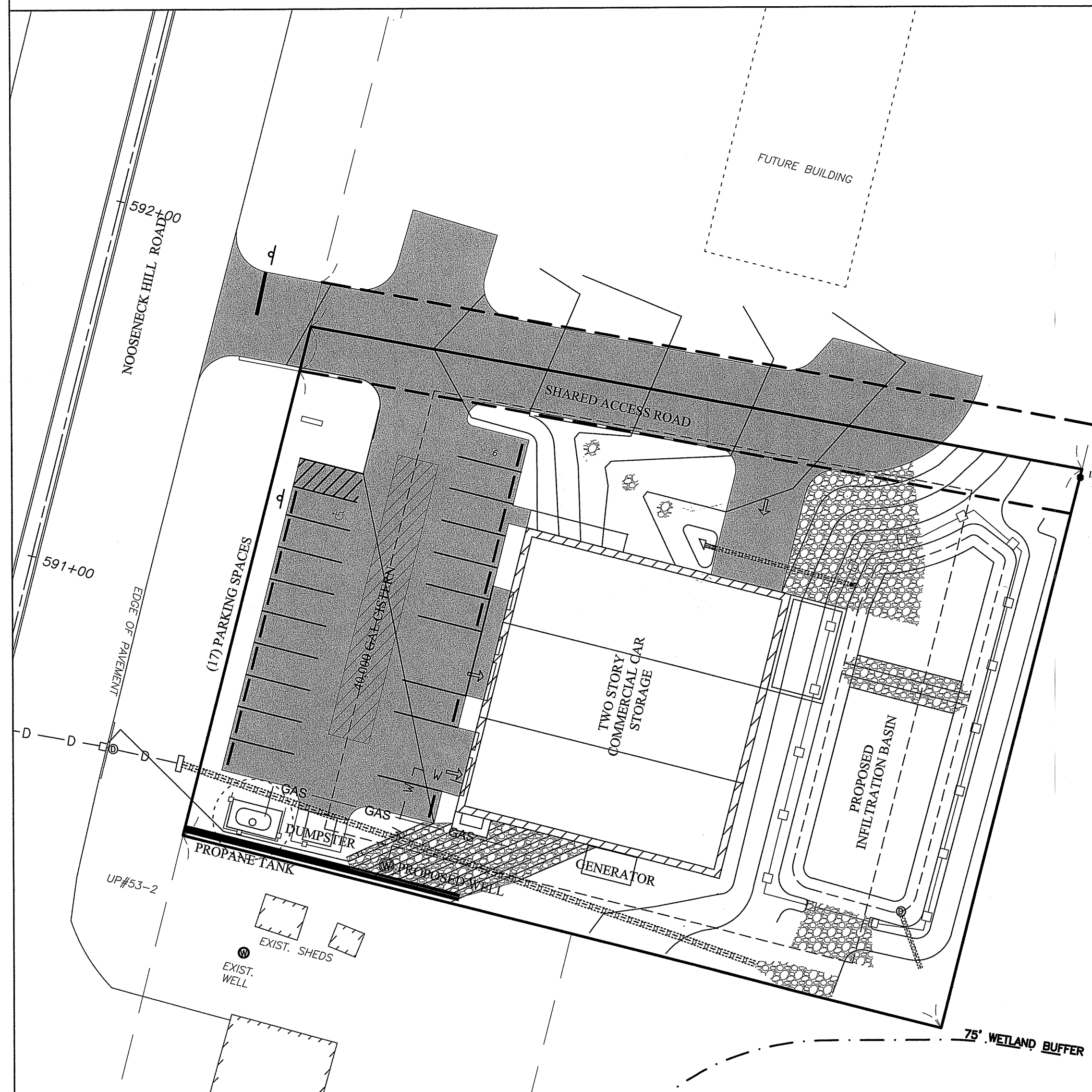
John W. Hampton, P.E.
Company: Coventry Survey Co.
Address: 46 South Main Street
Coventry
Rhode Island, 02816
Phone: (401) 823-5028

Sheet List:

- 1 - COVER SHEET
- 2 - EXISTING CONDITIONS PLAN
- 3 - OVERALL SITE PLAN
- 4 - OWTS PLAN
- 5 - OWTS DETAILS
- 6 - DRAINAGE PLAN
- 7 - PAVEMENT ALTERATION PLAN
- 8 - EROSION CONTROL PLAN
- 9 - DRAINAGE DETAILS
- 10 - DRAINAGE DETAILS 2
- 11 - EROSION DETAIL
- 12 - PAP DETAILS

PROJECT LEGEND

- WF-100 ▲ WETLAND FLAG
- WETLAND AREA
- WETLAND EDGE
- PERIMETER WETLAND BUFFER
- SE 1-1 ■ SOIL EVALUATION TEST HOLE
- UTILITY POLE
- ⊙ ELECTRIC HANDHOLE
- ⊙ ELECTRIC METER
- ELECTRIC OVERHEAD WIRES
- EXISTING TREE LINE
- PROPOSED PAVEMENT AREA
- IRF ○ EXISTING IRON ROD
- IPF ● EXISTING IRON PIPE
- DHF ● EXISTING DRILL HOLE
- GBF □ EXISTING GRANITE BOUND
- CBF □ EXISTING CONCRETE BOUND
- SBF □ EXISTING STONE BOUND
- HTF □ EXISTING HUB AND TACK
- MNF ● MAG NAIL FOUND
- DRAIN LINE
- WELL
- FES 2 FLARED END SECTION
- DMH 1 DRAIN MANHOLE
- CB 1 CATCH BASIN
- BUILDING
- PROPOSED RIPRAP SECTION
- SEPTIC TANK
- PROPOSED CONTOUR
- 100- EXISTING CONTOUR
- EXISTING LIMIT OF DISTURBANCE
- PROPOSED EROSION CONTROL
- PROPOSED WELL LINE
- EXISTING SEPTIC LINE
- CHAIN LINK FENCE



Scope of Work:

The purpose of this plan set is to show the proposed work associated with luxury car center.

Project Notes:

1. Wetlands were delineated by ecosystem solutions located at 100 jefferson blvd. ste. 225 warwick, ri 02888
2. Soil evaluations were completed on December 2023 by Sam Suorsa.
3. Drainage design follows the Rhode Island Stormwater Design Manual
4. Soil Map data obtained from RIGIS and US Web Soil Survey.
5. Contour lines outside the scope of work are obtained from RIGIS Lidar contour data.

RI DEPARTMENT OF ENVIRONMENTAL MANAGEMENT
OFFICE OF WATER RESOURCES
FRESHWATER WETLANDS PROGRAM
APPROVED WITH CONDITIONS AS
SPECIFIED IN THE LETTER OF APPROVAL
DATED: FEB 10 2025 FILE # 24-0316
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APPROVED PLANS MUST BE AT CONSTRUCTION SITE

Revisions:	

<p style="text-align: center; margin: 0;">PROJECT LAND SURVEYOR</p> <p style="font-size: small; margin: 0;">Samuel R. Suorsa, PLS Coventry Survey Co., Inc. 46 S Main Street Coventry, RI 02816</p>	
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DEC 2 7 2024
DEC 2 7 2025

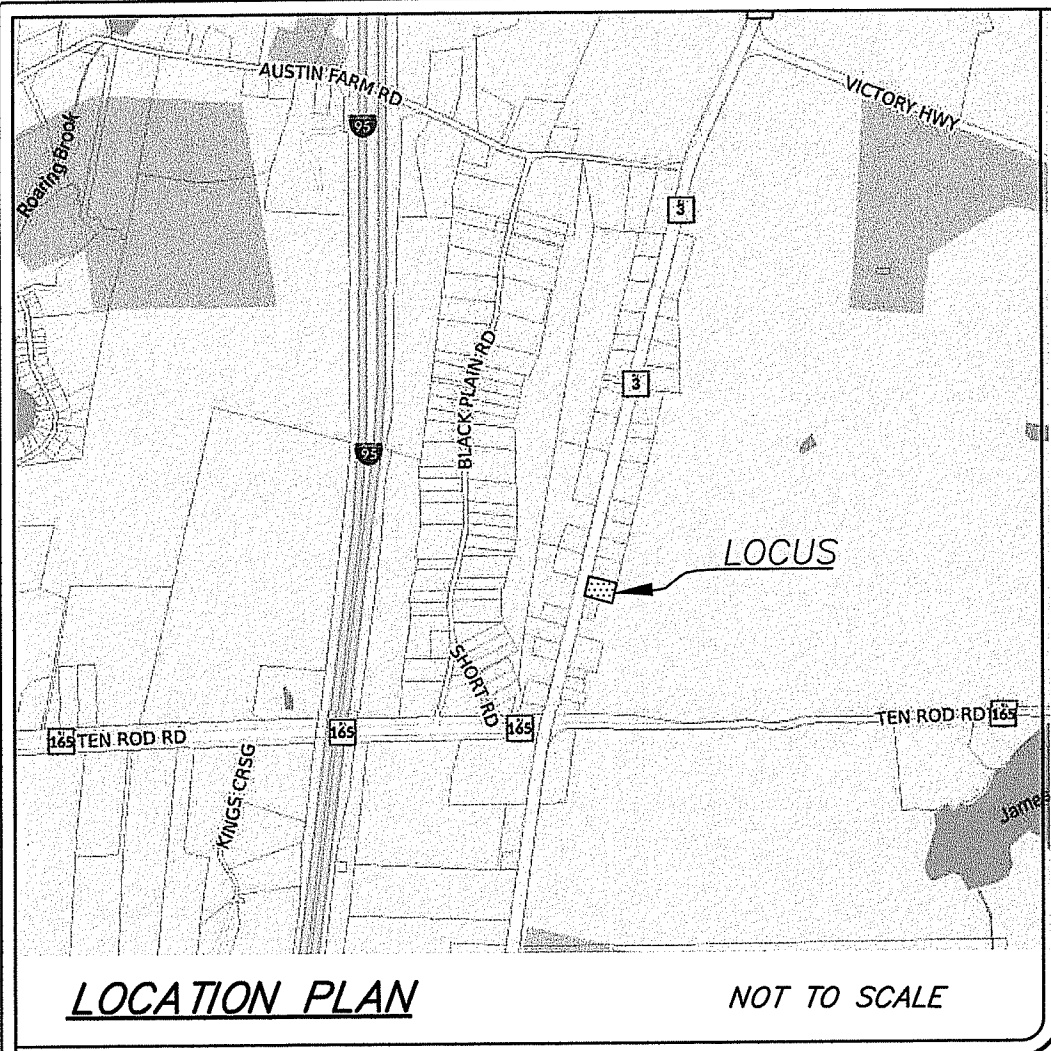
<p style="text-align: center; margin: 0;">PROJECT ENGINEER</p> <p style="font-size: small; margin: 0;">John W Hampton, P.E. Coventry Survey Co., Inc. 46 S Main Street Coventry, RI 02816</p>	
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RI DEPARTMENT OF ENVIRONMENTAL MANAGEMENT
OFFICE OF WATER RESOURCES
FRESHWATER WETLANDS PROGRAM

NOTE PER DEM:

Kindly be advised that this Permit is not equivalent to a verification of the type or extent of freshwater wetlands on site

Date:
NOV 26TH, 2024



LOCATION PLAN

NOT TO SCALE

LEGEND:

Plan Notes:

1. VERTICAL DATUM IS NAVD 88. HORIZONTAL DATUM IS RHODE ISLAND STATE PLANE (NAD 83).
2. THIS SITE DOES NOT LIE WITHIN A SPECIAL FLOOD HAZARD AREA AS INDICATED ON FEMA FLOOD MAP COMMUNITY-PANEL #440032-0060 J DATED 14/3/20.
3. THIS SITE LIES WITHIN A RIDEM NATURAL HERITAGE AREA.
4. THIS SITE DOES NOT LIE WITHIN A TOWN OF EXETER GROUNDWATER PROTECTION OVERLAY DISTRICT.
5. THIS SITE DOES NOT LIE WITHIN A COMMUNITY WELLHEAD PROTECTION AREA. THERE ARE NO COMMUNITY WELLHEAD PROTECTION AREAS WITHIN 500' OF THIS SITE.
6. THIS SITE LIES WITHIN A "NON-COMMUNITY WELLHEAD PROTECTION AREA".
7. WETLAND LINES SHOWN WERE DELINEATED BY ECOSYSTEM SOLUTIONS LOCATED AT 100 JEFFERSON BLVD. STE. 225 WARWICK, RI 02888.
8. FRONT AND REAR PROPERTY LINE LENGTHS SHOWN WERE APPORTIONED FROM FIVE SIMULTANEOUS DEEDS RECORDED IN DEED BOOK 57, PAGES 699 THROUGH 708.

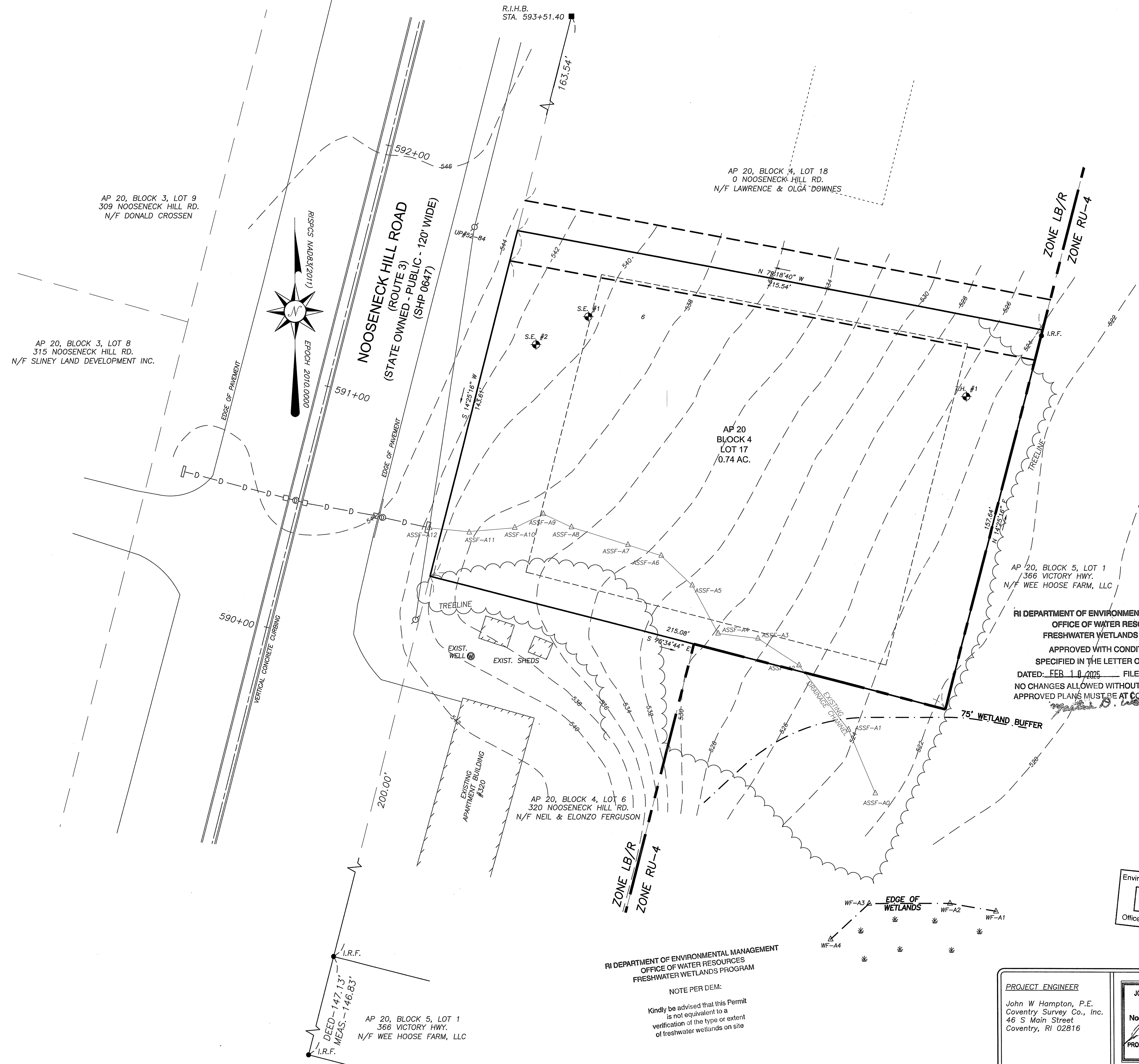
References:

1. DEEDS FOR ASSESSOR'S PLAT 20, BLOCK 4, LOT 17 & ABUTTERS.
2. STATE HIGHWAY PLAT No. 647, PARTICULARLY SHEET No. 7.
3. PLAN ENTITLED "SURVEY PLAN, PREPARED FOR NOOSENECK REALTY TRUST" STAMPED BY WESLEY GRANT, III DATED 12/3/2008 RECORDED IN THE TOWN OF EXETER, RI LAND EVIDENCE RECORDS AS MAP #458.

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

- | | |
|----------------------------------------------------------------------------------------------------------------------------------------------------------|---------------------------|
| (A) TYPE OF BOUNDARY SURVEY: | MEASUREMENT SPECIFICATION |
| COMPREHENSIVE BOUNDARY SURVEY | I |
| (B) OTHER TYPE OF SURVEY: | |
| DATA ACCUMULATION SURVEY - LOCATION OF SITE FEATURES | III |
| (C) STATEMENT OF PURPOSE: | |
| THE PURPOSE OF THIS SURVEY IS TO ESTABLISH RECORD BOUNDARY LINES AND TO SHOW EXISTING SITE FEATURES AND THEIR RELATIONSHIP TO THE RECORD BOUNDARY LINES. | |

BY: Samuel R. Suorsa 11/4/2024
REGISTERED PROFESSIONAL LAND SURVEYOR SIGNATURE
Samuel R. Suorsa, PLS
REGISTERED PROFESSIONAL LAND SURVEYOR PRINTED NAME
A-68
CERTIFICATE OF AUTHORIZATION NO.



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Environmental Management
DEC 27 2024
Office of Water Resources

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John W Hampton, P.E.
Coventry Survey Co., Inc.
46 S Main Street
Coventry, RI 02816

JOHN W. HAMPTON
No. 12485
REGISTERED PROFESSIONAL ENGINEER
CIVIL

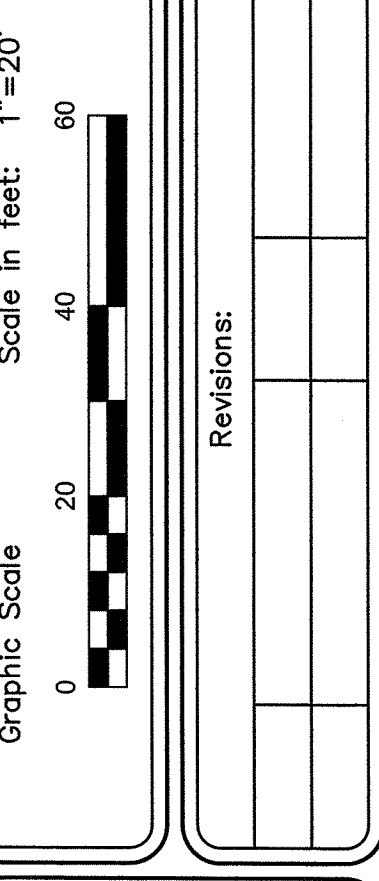
"New England Auto Chateau"
Existing Conditions Plan
Assessor's Plat 20, Block 4, Lot 17
Nooseneck Hill Road
in the Town of Exeter, Rhode Island
Prepared for: London Kendrick
121 Howard Avenue, Coventry, RI 02816

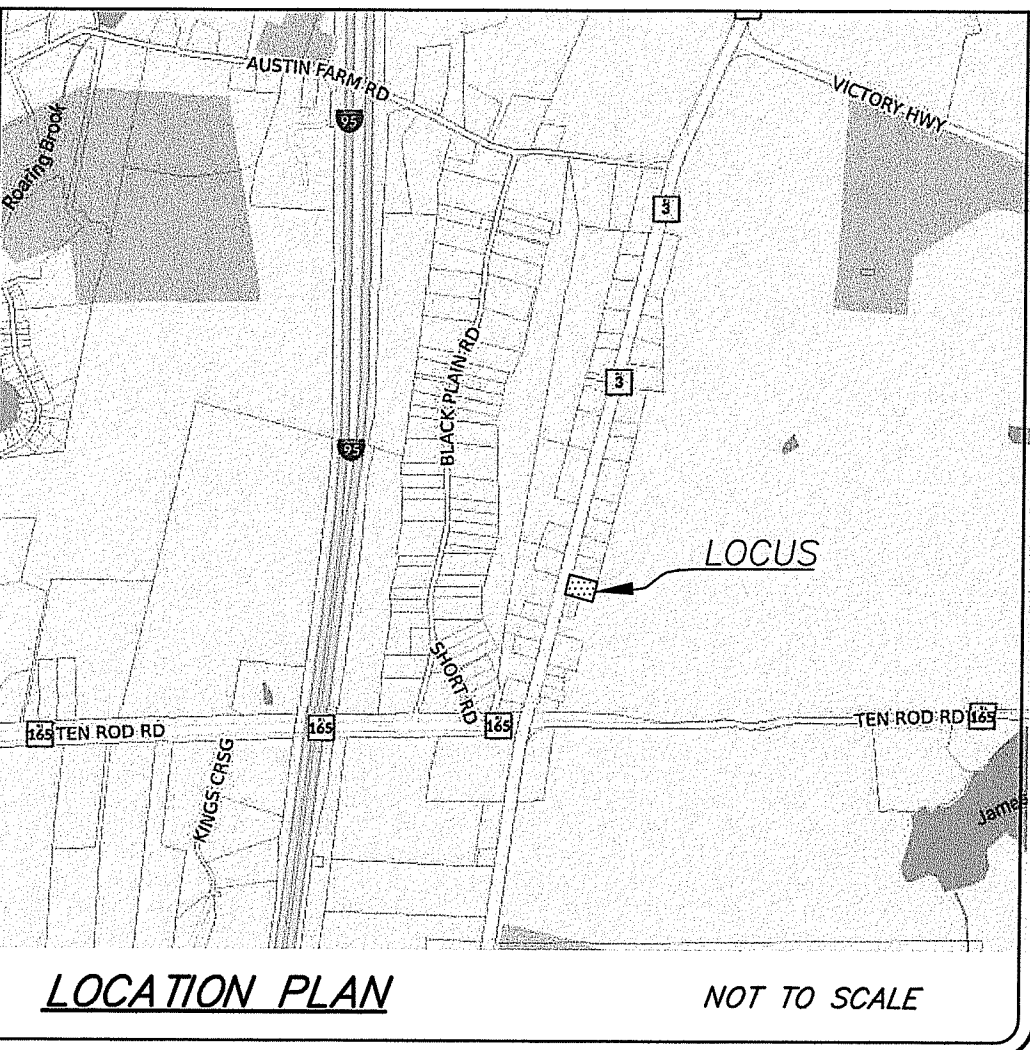
Date:
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Sheet 2 of 12

CSDG
Coventry Survey Design Group
46 South Main Street
Coventry, RI 02816
401-823-5028
coventrysurvey.com

SAMUEL R. SUORSA
No. 2508
PROFESSIONAL LAND SURVEYOR





PROJECT LEGEND

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- ▭ WETLAND AREA
- WETLAND EDGE
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R.I. Gen. Laws §45-24-38
 General provisions — Substandard lots of record.
 [Effective January 1, 2024.]

(b) Notwithstanding the failure of that lot or those lots to meet the dimensional and/or quantitative requirements, and/or road frontage or other access requirements, applicable in the district as stated in the ordinance, a substandard lot of record shall not be required to seek any zoning relief based solely on the failure to meet minimum lot size requirements of the district in which such lot is located. The setback, frontage, and/or lot width requirements for a structure under this section shall be reduced and the maximum building coverage requirements shall be increased by the same proportion as the lot area of the substandard lot is to the minimum lot area requirement of the zoning district in which the lot is located. All proposals exceeding such reduced requirement shall proceed with a modification request under § 45-24-46 or a dimensional variance request under § 45-24-41, whichever is applicable.

PARKING REQUIREMENTS:
 ARE PROVIDING 1 SPOT PER CUSTOMER AND 1 SPOT PER EMPLOYEE
 REQUIRED 10 SPACES
 SPACES PROVIDED 15 +1 HANDICAP

Recomondations from the Planning Board:

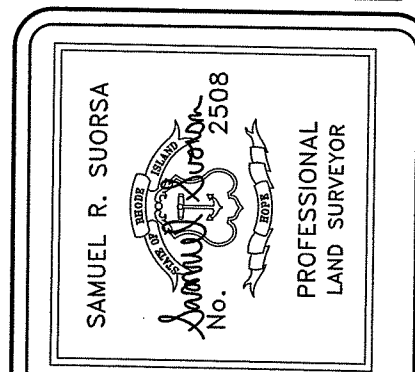
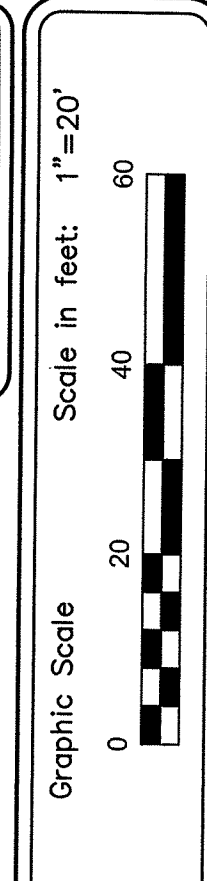
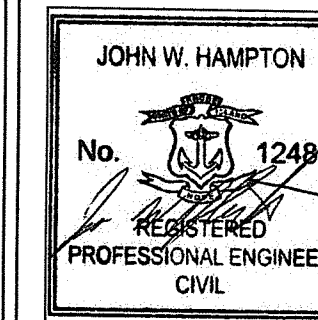
- Outside storage of vehicles shall not be permitted.
- Outdoor repair, car washing, detailing or auto body of any kind shall not be permitted.
- Detailing and washing of vehicles shall be limited to WITHIN THE BUILDING with the fluids captured in a sealed tank and hauled offsite.
- No open drains or grates inside the building unless connected to a sealed storage tank.
- No outdoor storage of trucks, parts, tires etc.
- Permanent and/or temporary storage within fenced and or in tractor trailers, shipping containers or similar shall not be permitted on site.
- Portable storage units shall not be permitted.
- Outdoor storage of materials, cleaning agents or similar ancillary items shall not be permitted.
- Accumulation and/or storage of junk vehicles, disabled or inoperative machinery and equipment, dismantled parts of vehicles, open drums that contain liquid, empty drums, discarded car parts, tires and/or other junk and debris, shall be prohibited.
- The dumpsters shall be screened from view on at least three (3) sides by a solid wall, opaque fence and surrounded by a compact planting screen of at least five (5) feet in height.

Requested Variances

- Sec 5.1.B.4 parking in front of the building.
- Sec 5.1.B.6 entrance is 20' from other entrance shared entrance
- And special use permit for mixed use commercial development

DIMENSIONAL REQUIREMENTS TABLE			
PROPOSED PARCEL	REQUIRED	REQUIRED BY SETBACK REDUCTION	PROPOSED
FRONTAGE	150'	55.8'	143.61'
FRONT SETBACK	100'	37.2"	71'
SIDE SETBACK	30'	11.2'	19.7'
REAR SETBACK	75'	27.9'	69.1'
MAX. LOT COVERAGE	25%	72.1%	38.7%

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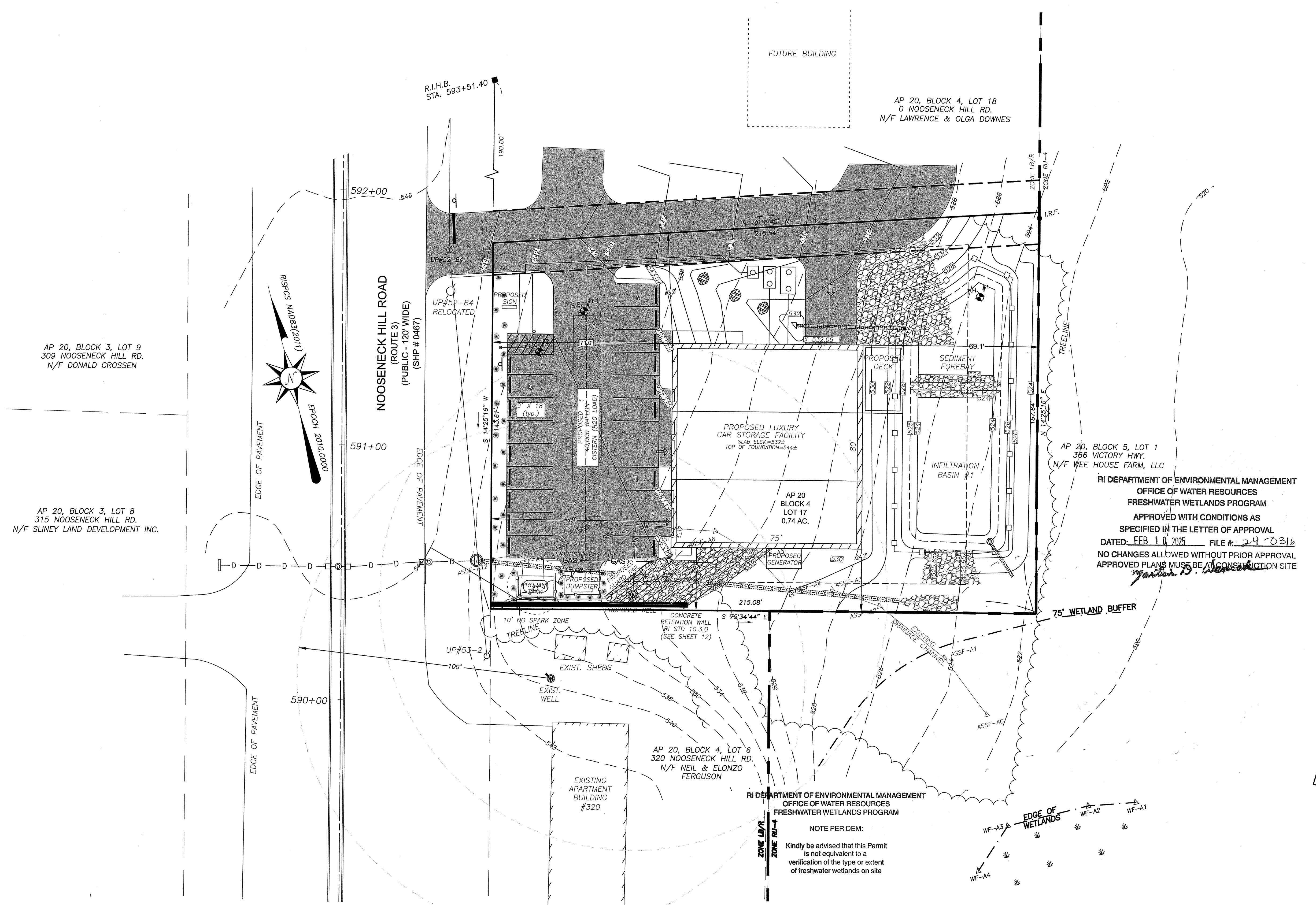
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OVERALL SITE PLAN
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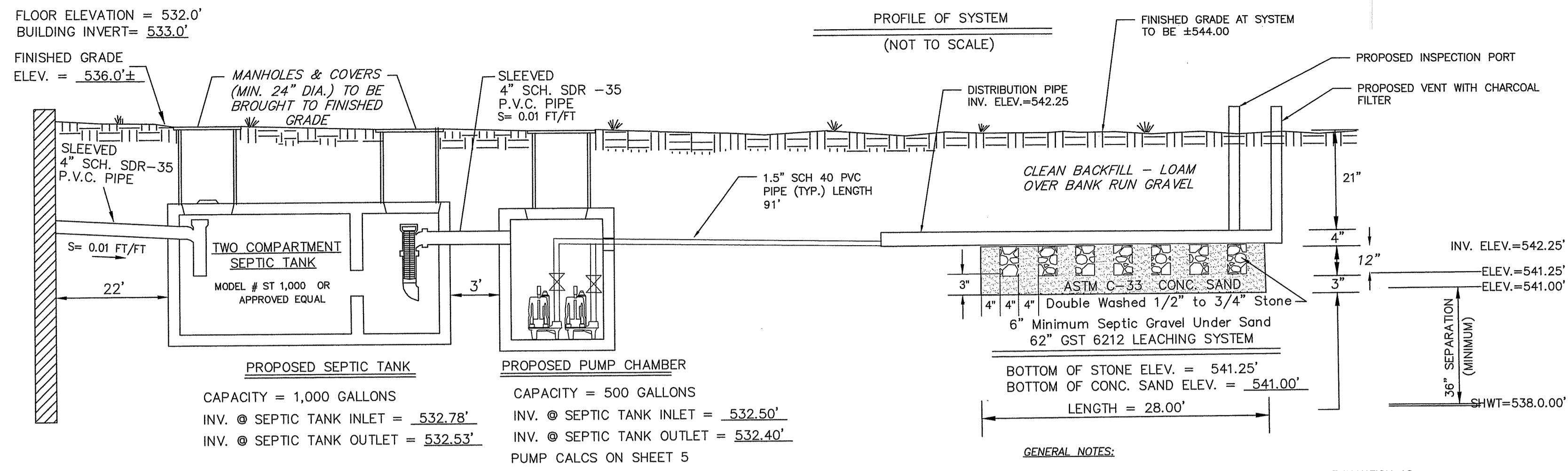
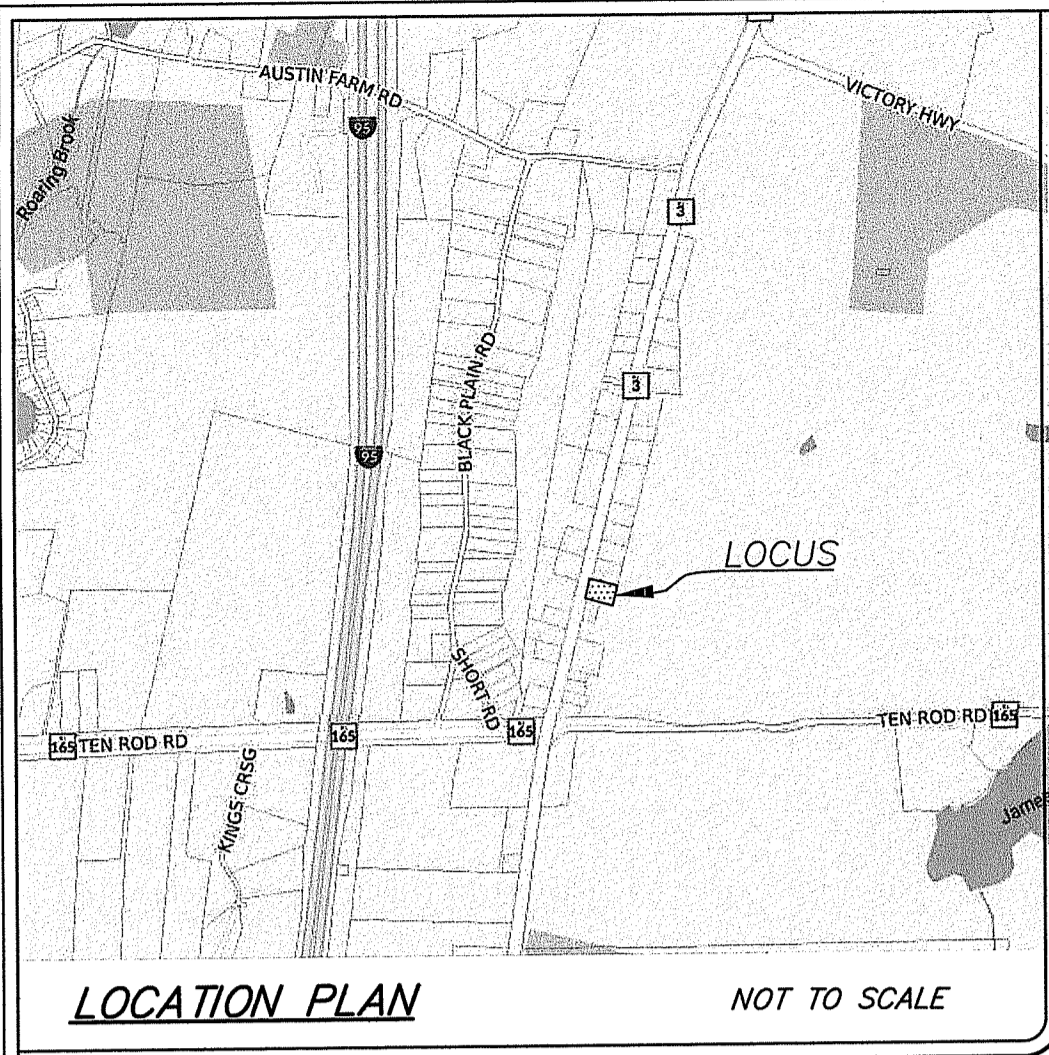
Date:
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Sheet 3 of 12



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▭	WETLAND AREA
---	WETLAND EDGE
- - - -	PERIMETER WETLAND BUFFER
SE 1-1	SOIL EVALUATION TEST HOLE
○	UTILITY POLE
—	ELECTRIC OVERHEAD WIRES
—	EXISTING TREE LINE
▭	PROPOSED PAVEMENT AREA
○	EXISTING IRON ROD
—	DRAIN LINE
○	WELL
FES 2	FLARED END SECTION
DMH 1	DRAIN MANHOLE
CB 1	CATCH BASIN
—	BUILDING
100	PROPOSED CONTOUR
-100	EXISTING CONTOUR
---	EXISTING LIMIT OF DISTURBANCE
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Revisions:

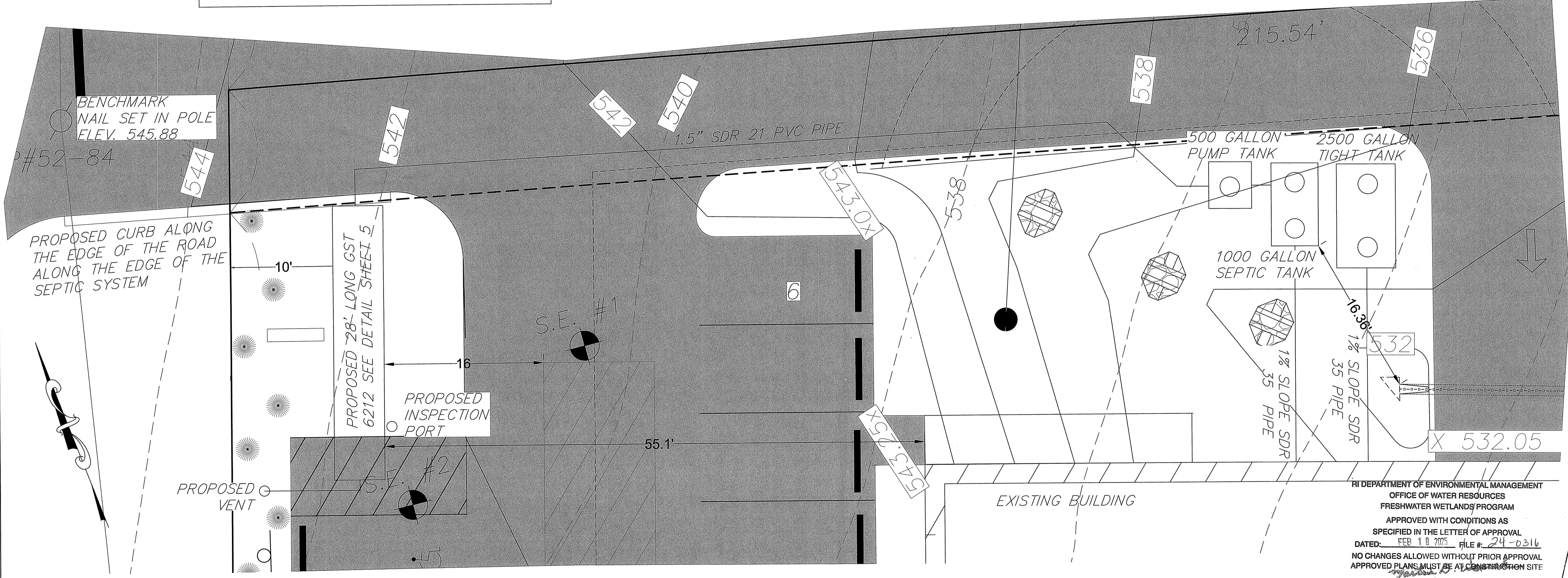
SAMUEL R. SUORSA
 PROFESSIONAL
 LAND SURVEYOR

BUOYANCY CALCULATION:
 VOLUME OF 1000 GALLON CONCRETE TANK:
 8,500 WEIGHT OF TANK
 WEIGHT OF DIRT ON TOP OF TANK
 8.5'x4.83'x1.36'x100LB/FT³ = 5,583 LBS
 8.5'x4.83'x2.75'x62.4 LB/FT³ = 7,045 LBS OF
 TANK+ BUOYANT FORCE OF WATER
 8,500LBS > 7,045 LBS

DESIGN DATA

EXISTING GRADE IN AREA OF LEACH FIELD = 542.00
 MAXIMUM GROUNDWATER IN AREA OF LEACH FIELD = 538.0'
 LOADING RATE = 0.46 GAL/SF/DAY (Category B Soils)
 PROPOSED NUMBER OF EMPLOYEES = 5
 PROPOSED NUMBER OF VISITORS = 5
 REQUIRED LEACHING AREA = 15 GAL/DAY/EMPLOYEES+VISITORS = 150 GAL/DAY 150 GAL/DAY / 0.46
 GAL/SF/DAY = 468.75 SF. REQUIRED GST 6212 REQUIRES 17.5 SF PER FOOT = 468.75/17.5 SF/FT =
 26.8 LINEAR FEET OF TRENCH REQUIRED
 AREA PROVIDED = (1) 28 LINEAR FOOT TRENCH X 17.5/FOOT = 490 SQUARE FEET PROVIDED

- OWTS NOTES:**
- 1) EXCAVATE THE OWTS AREA AND 5 FEET ALL AROUND TO ELEV.=541.00'± OR TO REMOVE SUBSOIL, FINES, AND PART OF ANY ABANDONED LEACHFIELD (AS NECESSARY).
 - 2) INSTALL SEPTIC GRAVEL TO ELEV.=541.25'
 - 3) INSTALL 3" OF CONCRETE SAND, THEN INSTALL THE GST 6212 TEMPLATES. FOLLOW THE RHODE ISLAND GST INSTALLATION MANUAL.
 - 4) LOCATION OF UNDERGROUND UTILITIES IS APPROXIMATE AND SHOULD BE VERIFIED BY THE CONTRACTOR PRIOR TO ANY CONSTRUCTION ACTIVITIES.
 - 5) THE INSTALLER SHALL CONTACT THE DESIGNER PRIOR TO THE START OF CONSTRUCTION.
 - 6) THE INSTALLER SHALL PROVIDE COPIES OF ANY STATE INSPECTION REPORTS AND RECEIPTS FOR MATERIALS AND COMPONENTS.
- GENERAL NOTES:**
- 1) SOIL AND WATER TABLE DATA OBTAINED FROM SOIL EVALUATION AS NOTED ON THE PLAN.
 - 2) EXTEND SEPTIC TANK MANHOLES TO GRADE AS SHOWN IN PROFILE. GRADE TO DIVERT RUNOFF AWAY.
 - 3) REMOVE ALL VEGETATION AND TREES WITHIN 10' OF THE PROPOSED OWTS.
 - 4) NO WELLS EXIST OR ARE PROPOSED WITHIN 200' OF THE PROPOSED OWTS, EXCEPT AS SHOWN.
 - 5) NO PUBLIC WELLS EXIST OR ARE PROPOSED WITHIN 500' OF THE PROPOSED OWTS.
 - 6) LOT LINES SHOWN ARE APPROXIMATE AND SHOULD BE VERIFIED PRIOR TO CONSTRUCTION ACTIVITY.
 - 7) USE 4" DIAMETER SEWER PIPE (SDR-35) WITH WATERTIGHT JOINTS.
 - 8) DESIGNER MUST SUPERVISE ALL PHASES OF THE OWTS INSTALLATION.
 - 9) THE DATUMS ARE RISPCS & NAVD88



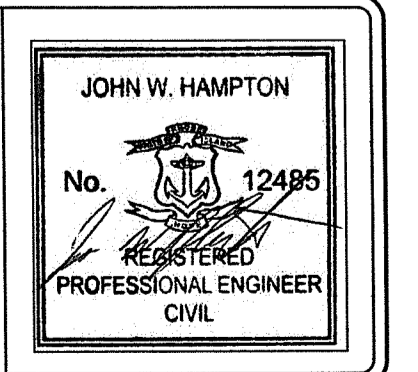
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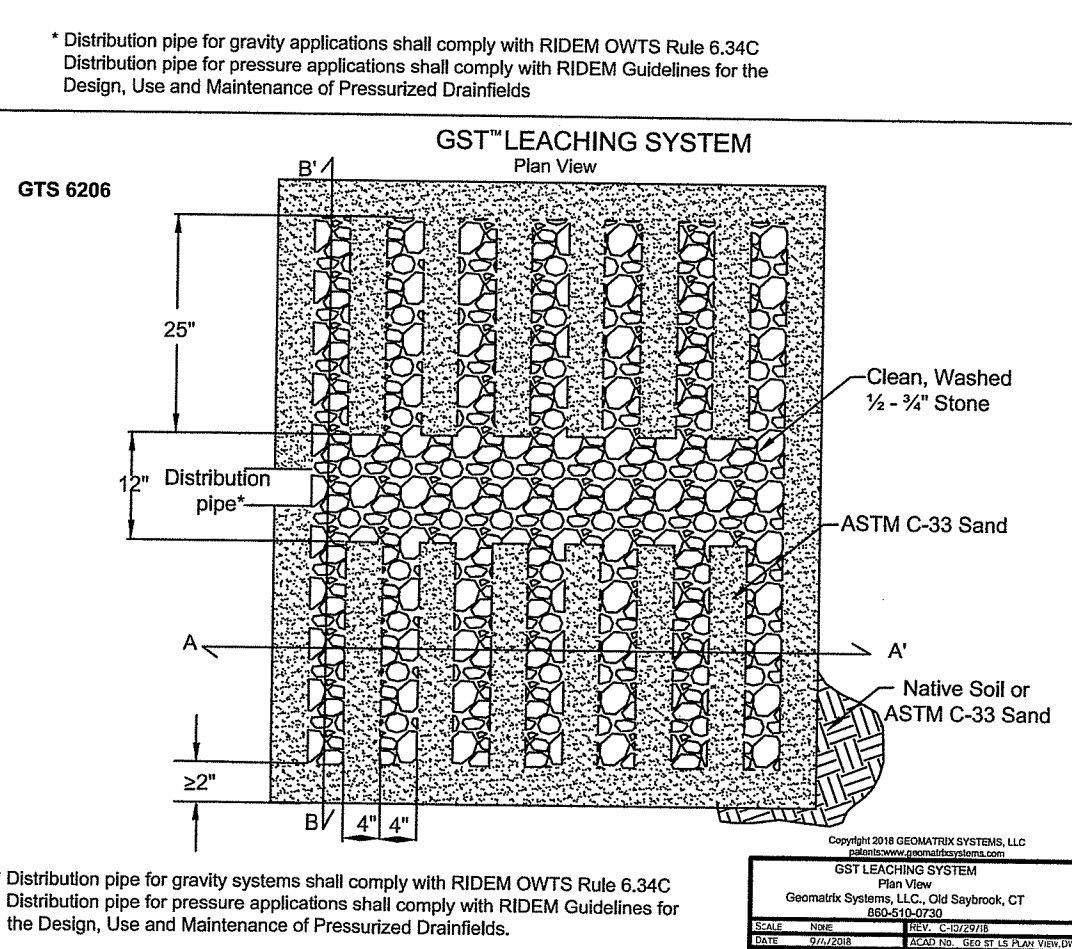
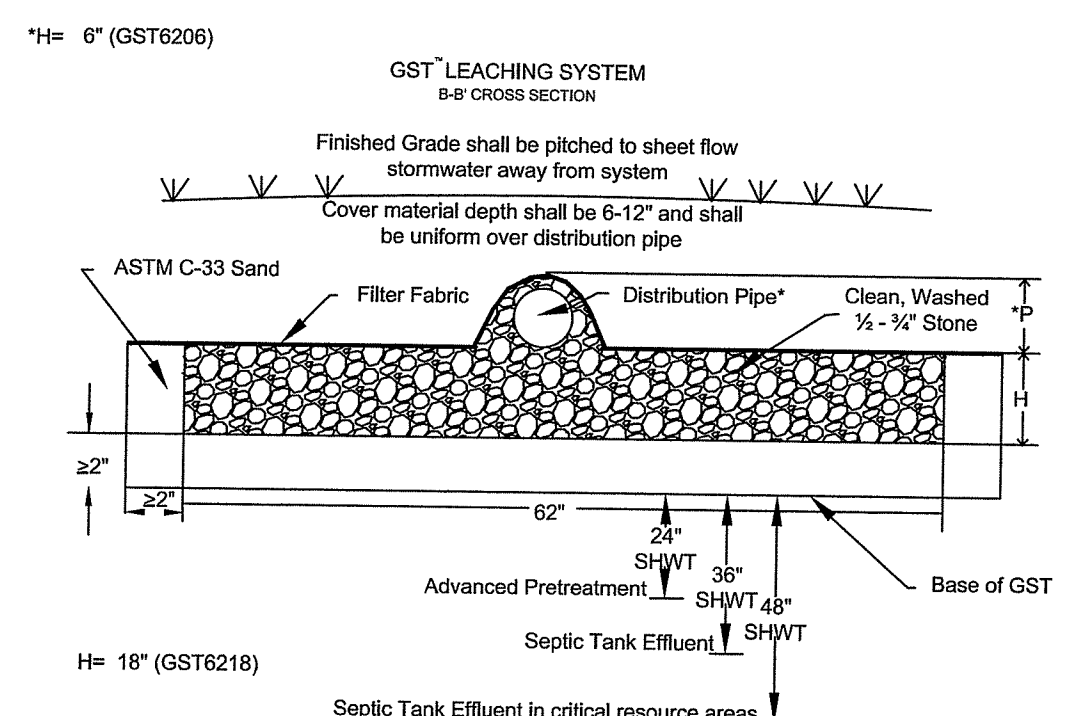
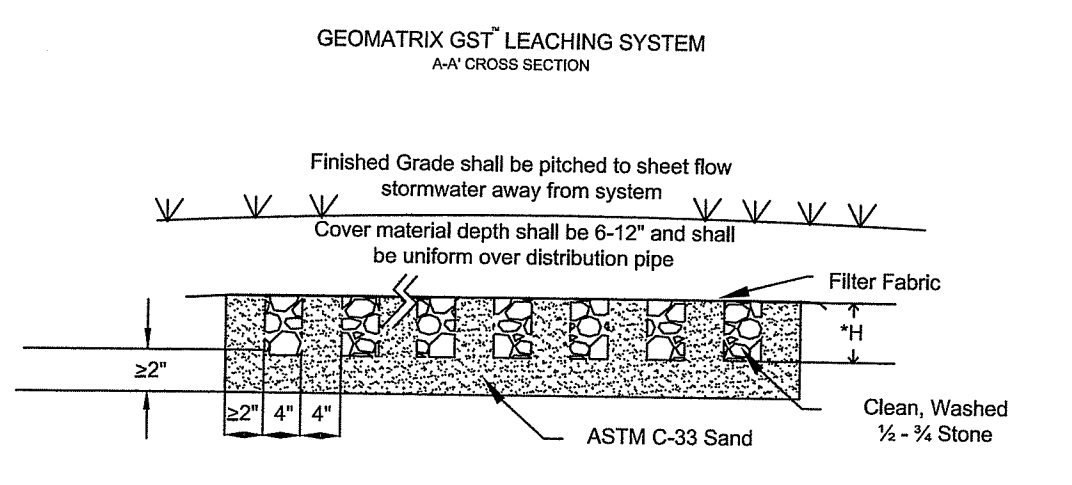
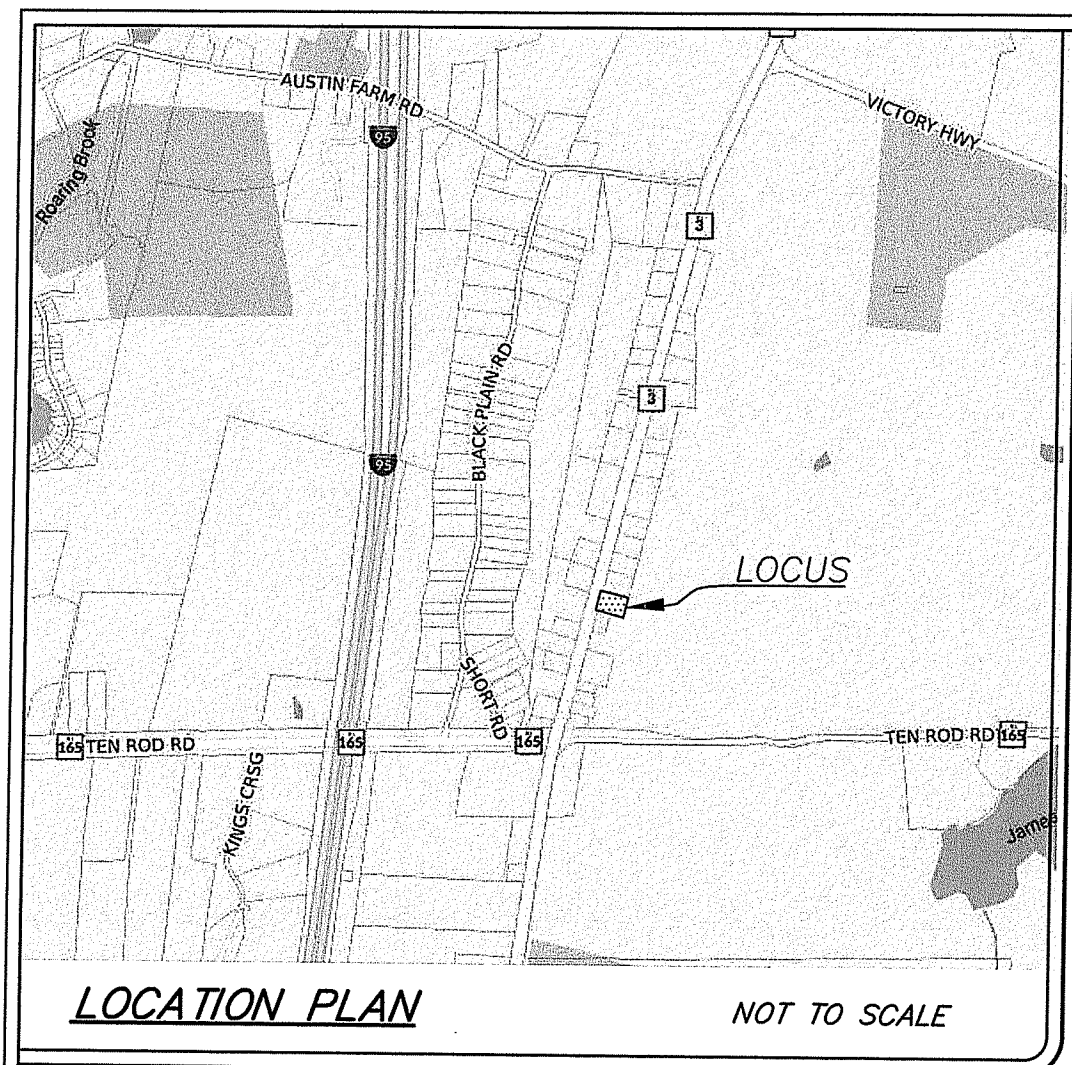
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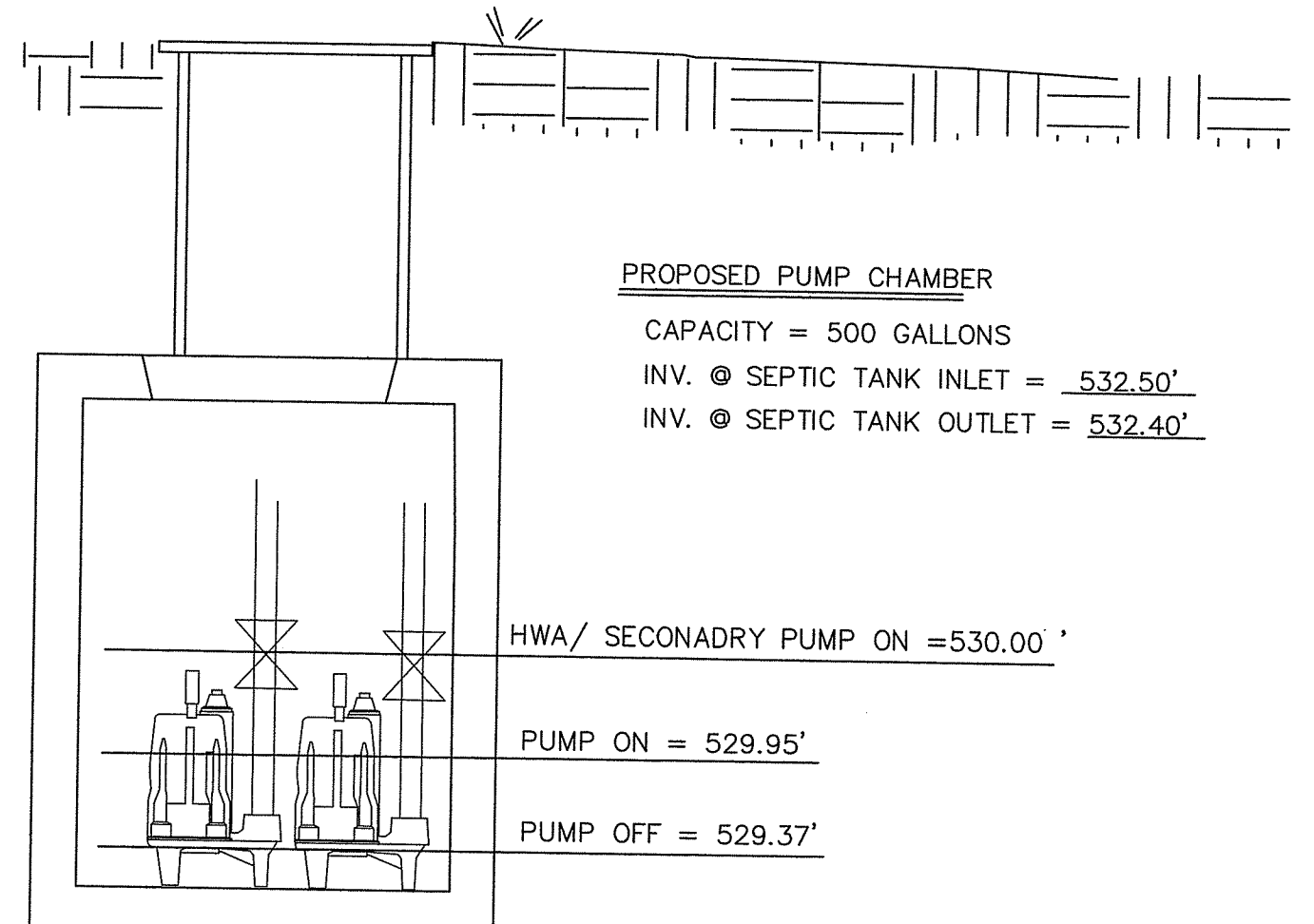
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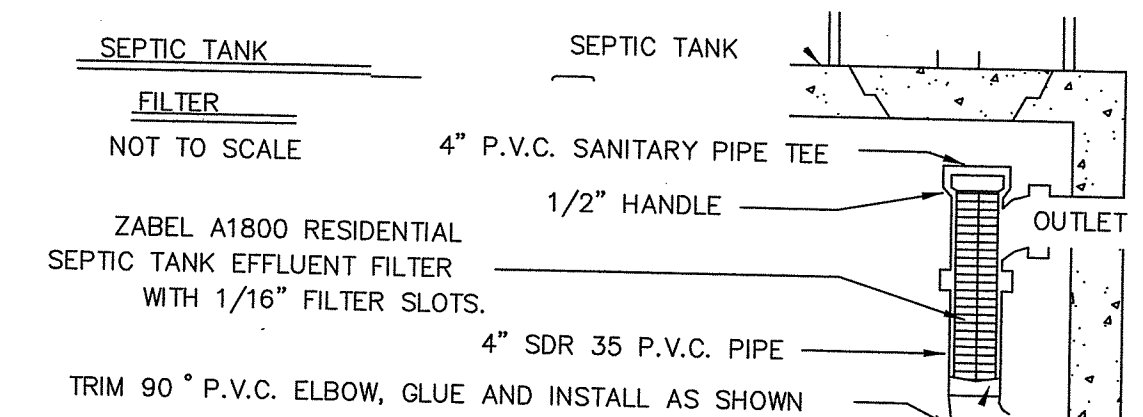
NOTES:
GENERATOR BACK UP IS REQUIRED FOR DESIGN
CONCRETE COVER AND STEEL PLATE WILL CONFIRM H-20 LOADING STANDARDS
PAVEMENT STRUCTURE TO MATCH EXISTING STRUCTURE



PROPOSED PUMP CHAMBER
CAPACITY = 500 GALLONS
INV. @ SEPTIC TANK INLET = 532.50'
INV. @ SEPTIC TANK OUTLET = 532.40'

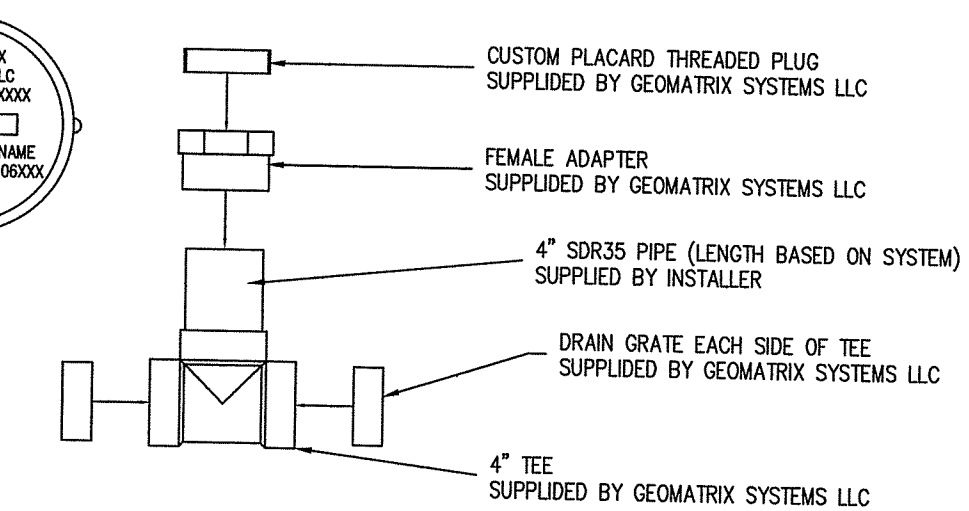
HWA/ SECONADRY PUMP ON = 530.00'
PUMP ON = 529.95'
PUMP OFF = 529.37'

BUOYANCY CALCULATION:
VOLUME OF 500 GALLON CONCRETE TANK:
4,500 WEIGHT OF TANK
WEIGHT OF DIRT ON TOP OF TANK
4.00'x4.00'x2.14'x100LB/FT³ = 5,583 LBS
4.0'x4.0'x2.75'x62.4 LB/FT³ = 7,045 LBS OF
TANK+ BUOYANT FORCE OF WATER
8,500LBS > 7,045 LBS



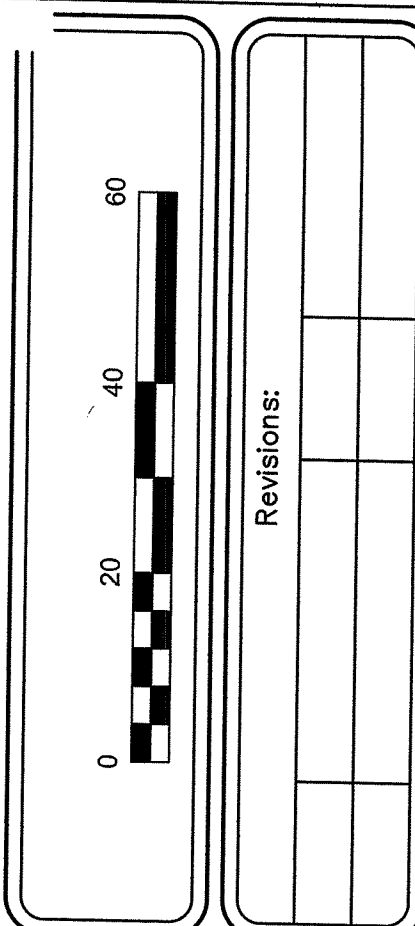
INTERIOR DIMENSIONS FOR A 1,000 GALLON TWO COMPARTMENT TANK
WIDTH = 58-6" LENGTH = 102-6"
52" X 96" = 5,916 in² = 34,667 ft²
34.67 ft² X 7.5 GALLONS PER FT³ = 260 GAL/FOOT OF TANK

GEMATRIX GST LEACHING SYSTEM INSPECTION PORT DETAIL



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CUSTOM AQUATIC FRICTION LOSS CHART

FRICTION LOSS PER 100 FEET OF PIPE OF PLASTIC PIPE

PIPE DIAMETER	PIPE DIAMETER									
	1/2"	3/4"	1"	1 1/4"	1 1/2"	2"	2 1/2"	3"	4"	6"
FRICION LOSS PER 100 FEET OF PIPE	1.5	2.0	2.7	3.5	4.3	5.5	6.5	8.0	10.0	14.0

DISCHARGE PUMP FLOAT SETTING CALCULATIONS
TOTAL DAILY FLOW = 150 GALLON/DAY
PUMP CHAMBER ELEVATIONS 500 GALLON TANK):
RIM = 536.05'
HWA/ SECONADRY PUMP ON = 530.00'
PUMP ON = 529.95'
PUMP OFF = 529.37' (5" MINIMUM LIQUID LEVEL FOR LIBERTY FL-30 EFFLUENT PUMP)
BOTTOM CHAMBER (Interior) = 528.95'
PROVIDED EMERGENCY STORAGE = 530.00 - 532.40 = 2.4(30) = 75 GALLONS

PIPE LENGTH EQUIVALENT PIPE LENGTH

PIPE LENGTH	93'
1 CHECK VALVES	20'
1 GATE VALVE	1.7'
1 STRAIGHT FLOW TEES	5'
1 90 DEGREE BENDS	8.0'
EQUIVALENT PIPE LENGTH	127.7'

Friction Loss

Pipe friction is the resistance to flow created by the interior surface of the pipe through which a liquid is moving. The smaller the diameter of the pipe, or the greater the rate of flow, the greater the amount of friction (friction loss).

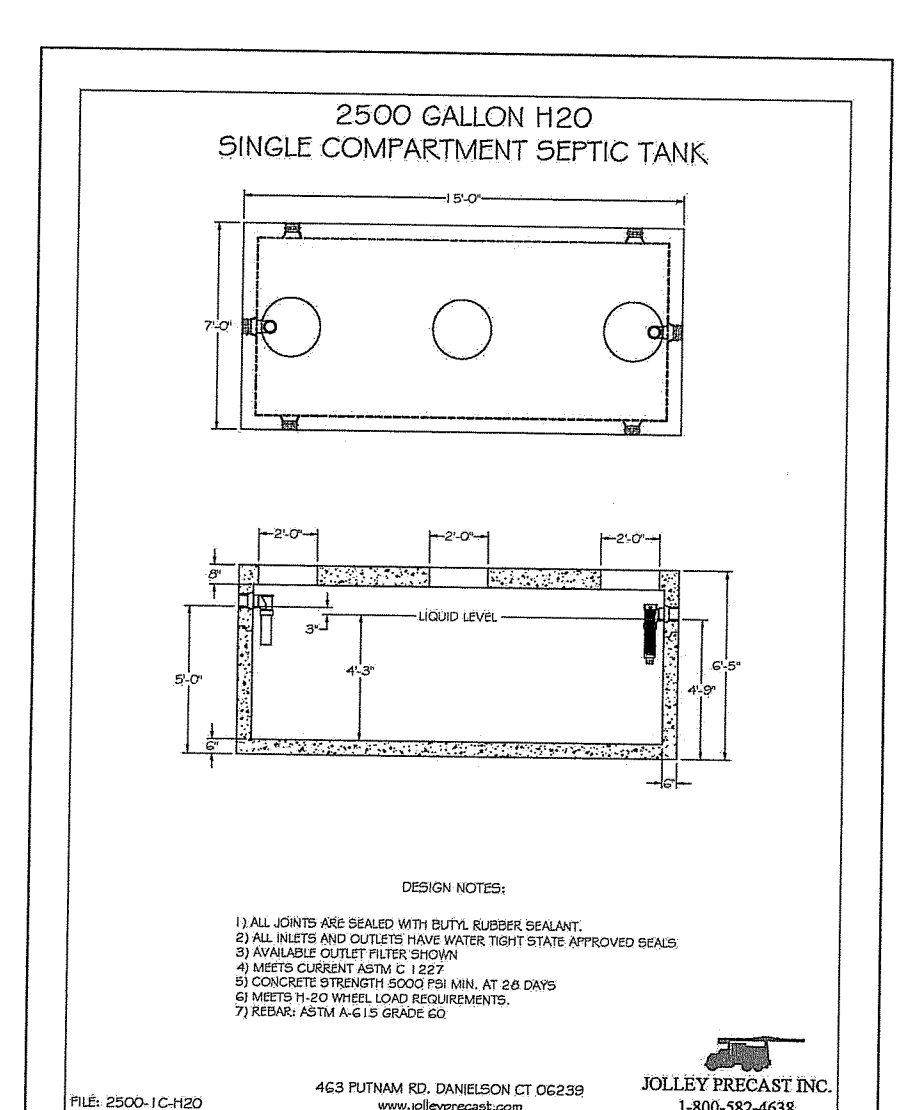
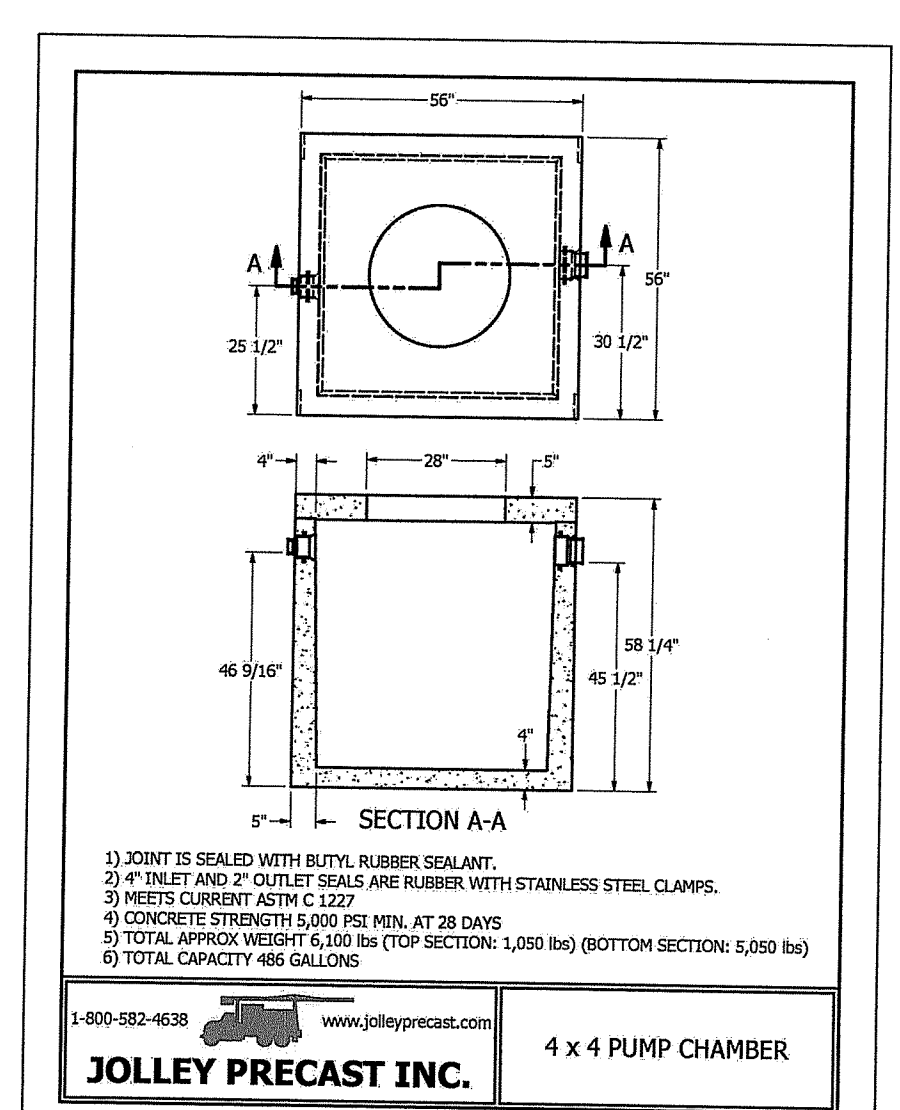
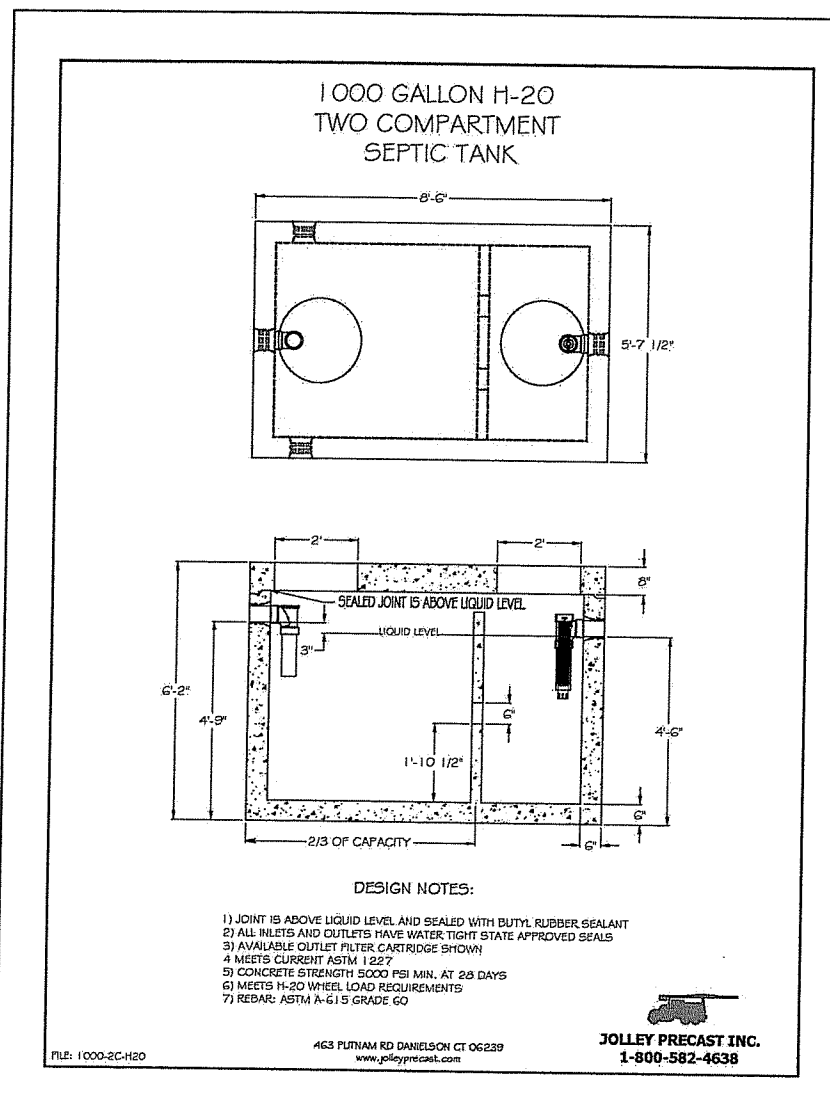
Friction loss is expressed as feet of head in 100 feet of pipe and will vary depending upon the material of which the pipe is made. The following charts show friction losses in steel, copper, and plastic pipe. Pipe size should be sufficiently large so that not more than 10% of the total dynamic head is in friction loss.

EQUIVALENT NUMBER OF FEET STRAIGHT PIPE FOR DIFFERENT FITTINGS

Size of Fittings, Inches	1/2"	3/4"	1"	1 1/4"	1 1/2"	2"	2 1/2"	3"	4"	5"	6"
90° El	1.5	2.0	2.7	3.5	4.3	5.5	6.5	8.0	10.0	14.0	18.0

EXAMPLE:
(A) 100 ft. of 2" plastic pipe with one (1) 90° elbow and one (1) swing check valve.
90° elbow - Equivalent to 5.5 ft. of straight pipe
Swing Check - Equivalent to 13.0 ft. of straight pipe
100 ft. of pipe - Equivalent to 100.0 ft. of straight pipe
118.5 ft. = Total equivalent pipe
Figure friction loss for 118.5 ft. of pipe

(B) Assume flow to be 80 GPM through 2" plastic pipe.
1. Friction loss table shows 10.9 ft. loss per 100 ft. of pipe.
2. In step (A) we have determined total feet of pipe to be 118.5 ft.
3. Convert 118.5 ft. to percentage: 118.5 ÷ 100 = 1.185.
4. Multiply 10.9 x 1.185 = 12.9165 or 12.92 ft. = Total friction loss in this system



Liberty Pumps
Pump Specification
FL30-Series
1/3 hp Submersible Effluent Pumps

DESIGN NOTES:
1) JOINT IS SEALED WITH BUTYL RUBBER SEALANT.
2) 4" INLET AND 2" OUTLET SEALS ARE RUBBER WITH STAINLESS STEEL CLAMPS.
3) MEETS CURRENT ASTM C 1227
4) CONCRETE STRENGTH 4866 PSI MIN. AT 28 DAYS
5) TOTAL APPROX WEIGHT 6,100 lbs (TOP SECTION: 1,050 lbs) (BOTTOM SECTION: 5,050 lbs)
6) TOTAL CAPACITY 486 GALLONS.
7) MEETS ALL A.S.I. GRADE 60
8) ALL JOINTS ARE SEALED WITH BUTYL RUBBER SEALANT.
9) ALL WEIR AND OUTLET CURBS HAVE WATER TIGHT STATE APPROVED BEADS.
10) ALL WEIR AND OUTLET CURBS HAVE WATER TIGHT STATE APPROVED BEADS.
11) ALL WEIR AND OUTLET CURBS HAVE WATER TIGHT STATE APPROVED BEADS.
12) ALL WEIR AND OUTLET CURBS HAVE WATER TIGHT STATE APPROVED BEADS.
13) ALL WEIR AND OUTLET CURBS HAVE WATER TIGHT STATE APPROVED BEADS.
14) ALL WEIR AND OUTLET CURBS HAVE WATER TIGHT STATE APPROVED BEADS.
15) ALL WEIR AND OUTLET CURBS HAVE WATER TIGHT STATE APPROVED BEADS.
16) ALL WEIR AND OUTLET CURBS HAVE WATER TIGHT STATE APPROVED BEADS.
17) ALL WEIR AND OUTLET CURBS HAVE WATER TIGHT STATE APPROVED BEADS.
18) ALL WEIR AND OUTLET CURBS HAVE WATER TIGHT STATE APPROVED BEADS.
19) ALL WEIR AND OUTLET CURBS HAVE WATER TIGHT STATE APPROVED BEADS.
20) ALL WEIR AND OUTLET CURBS HAVE WATER TIGHT STATE APPROVED BEADS.

FL30-Series Dimensional Data

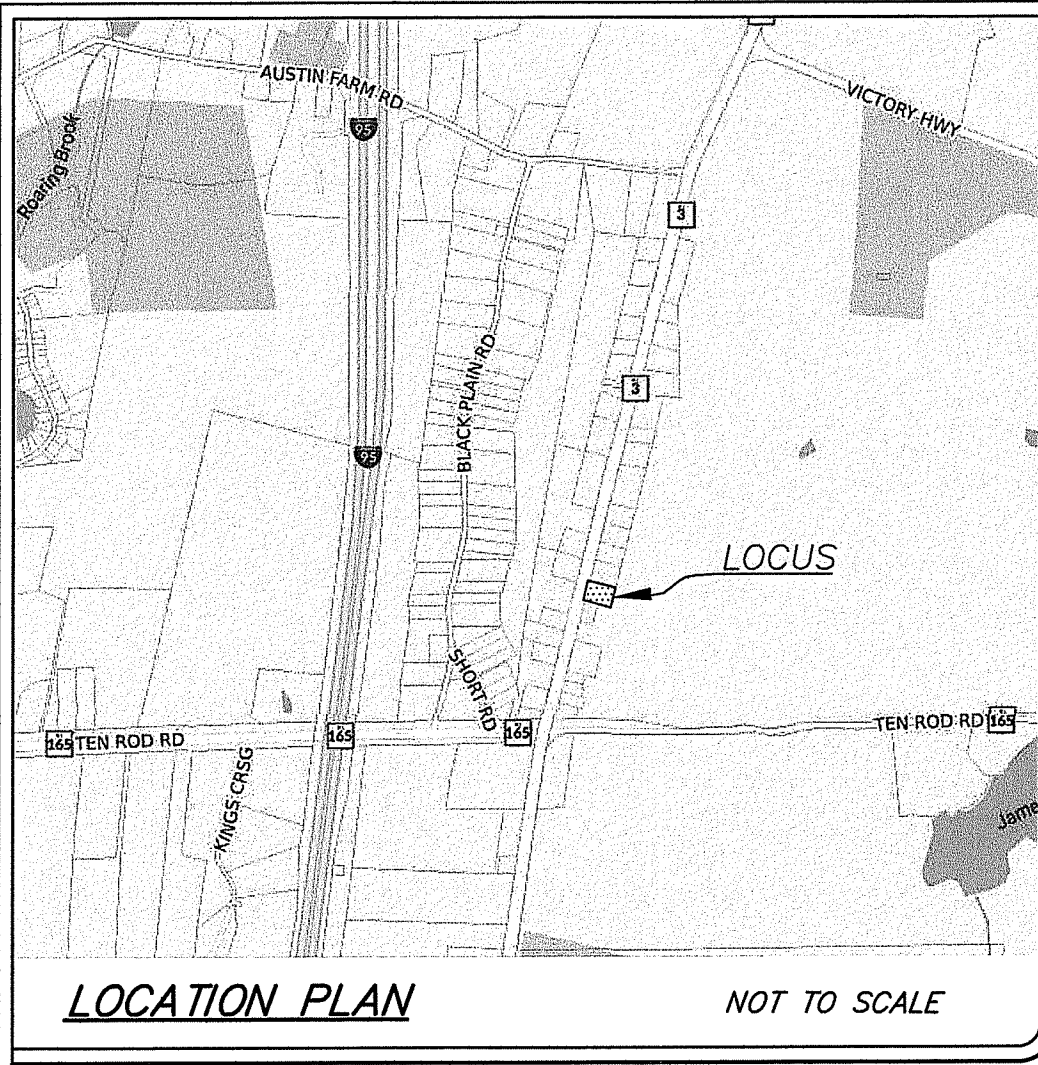
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OFFICE OF WATER RESOURCES
FRESHWATER WETLANDS PROGRAM
APPROVED WITH CONDITIONS AS SPECIFIED IN THE LETTER OF APPROVAL
DATED: FEB 10 2025 FILE #: 24-0316
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"New England Auto Chateau"
OWTS DETAILS
Assessor's Plat 20, Block 4, Lot 17
Nonesuch Hill Road
in the Town of Exeter, Rhode Island
Prepared for: London Kendrick
121 Howard Avenue, Coventry, RI 02816

Environmental Management
DEC 27 2024
Office of Water Resources

Date:
NOV 26TH, 2024

Sheet 5 of 12



FES1		
INVIN	P1	531.00
FES2		
INVOUT	P3	526.00
FES3		
INVOUT	P4	526.00

BMP NAME	TH NUMBER	EXISTING GRADE AT BASIN	SHGT LEVEL	SHGT ELEV.	BOTTOM OF SYSTEM	SEPERATION DISTANCE
INFILTRATION BASIN #1	TH#1		525.48'	521	524.3'	

PROJECT ENGINEER
 John W Hampton, P.E.
 Coventry Survey Co., Inc.
 46 S Main Street
 Coventry, RI 02816

Scale in feet: 1"=20'

Revisions:

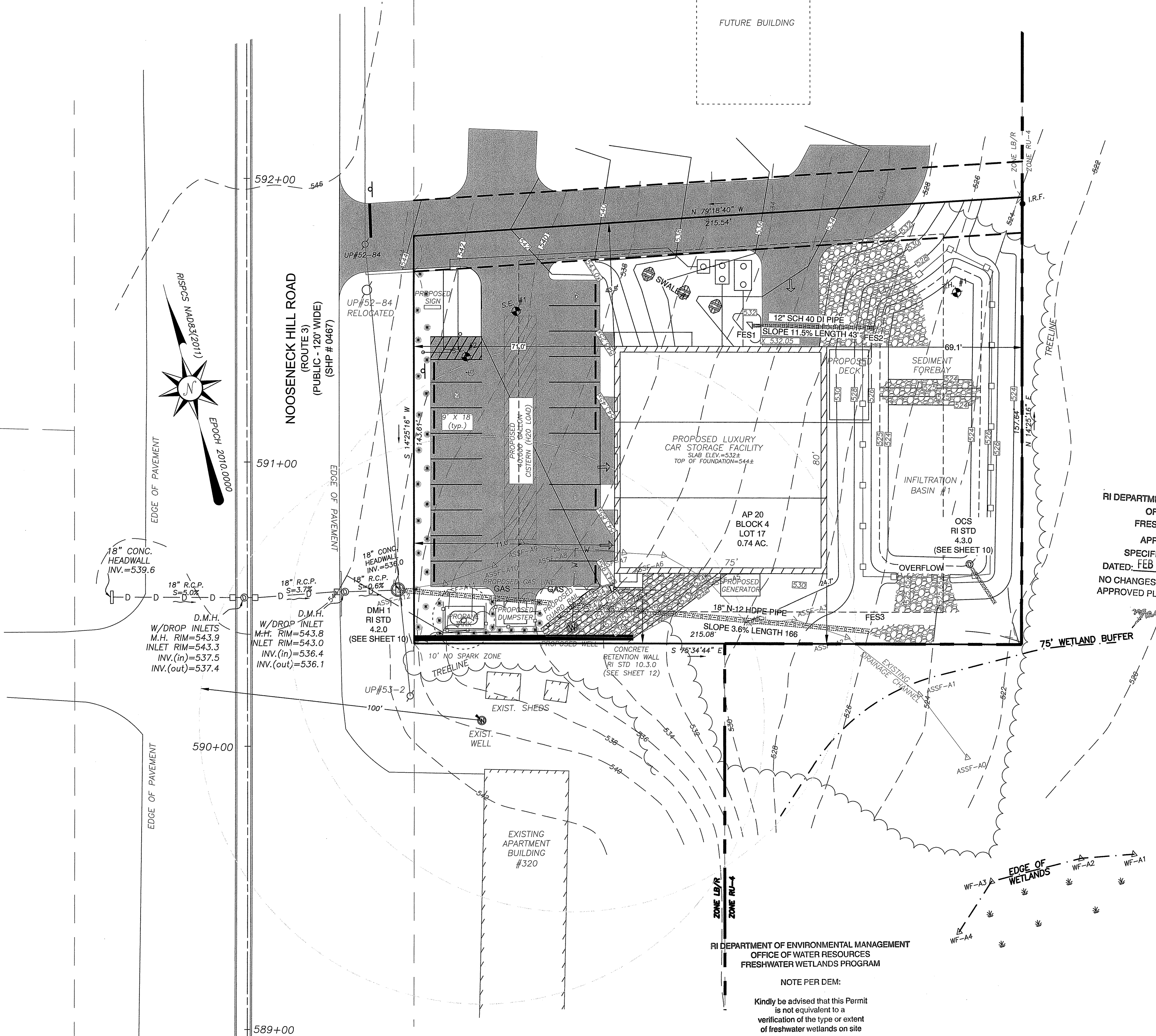
SAMUEL R. SUORSA
 No. 2308
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 401-823-5028
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- LEGEND:**
- WF-100 ▲ WETLAND FLAG
 - WETLAND AREA
 - WETLAND EDGE
 - PERIMETER WETLAND BUFFER
 - SE 1-1 SOIL EVALUATION TEST HOLE
 - UTILITY POLE
 - ELECTRIC OVERHEAD WIRES
 - EXISTING TREE LINE
 - PROPOSED PAVEMENT AREA
 - IRF ○ EXISTING IRON ROD
 - DRIAN LINE
 - WELL
 - FES 2 FLARED END SECTION
 - DMH 1 DRAIN MANHOLE
 - CB 1 CATCH BASIN
 - BUILDING
 - PROPOSED CONTOUR
 - EXISTING CONTOUR
 - EXISTING LIMIT OF DITRUBANCE
 - PROPOSED EROSION CONTROL
 - PROPOSED WELL LINE
 - EXISTING SEPTIC LINE
 - CHAIN LINK FENCE



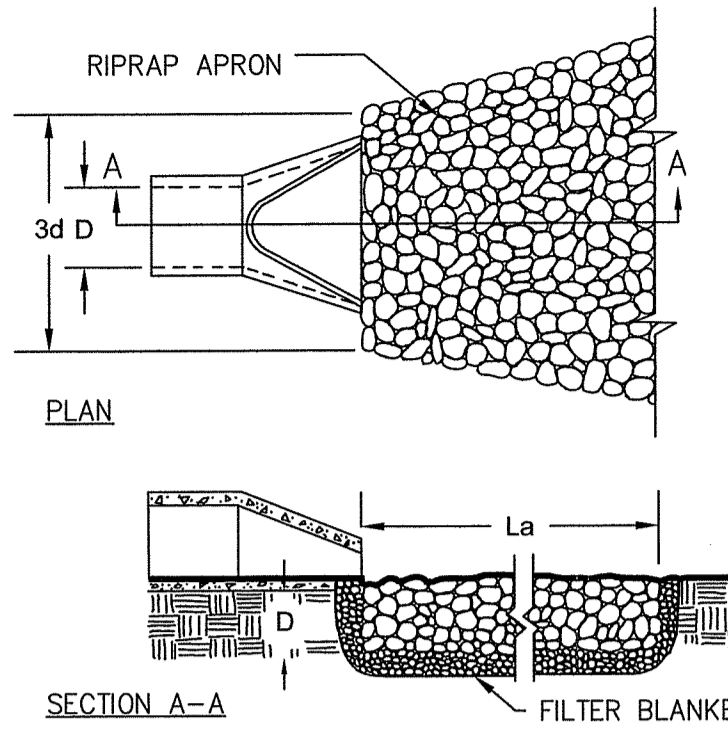
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NOTE PER DEM:
 Kindly be advised that this Permit is not equivalent to a verification of the type or extent of freshwater wetlands on site

Environmental Management
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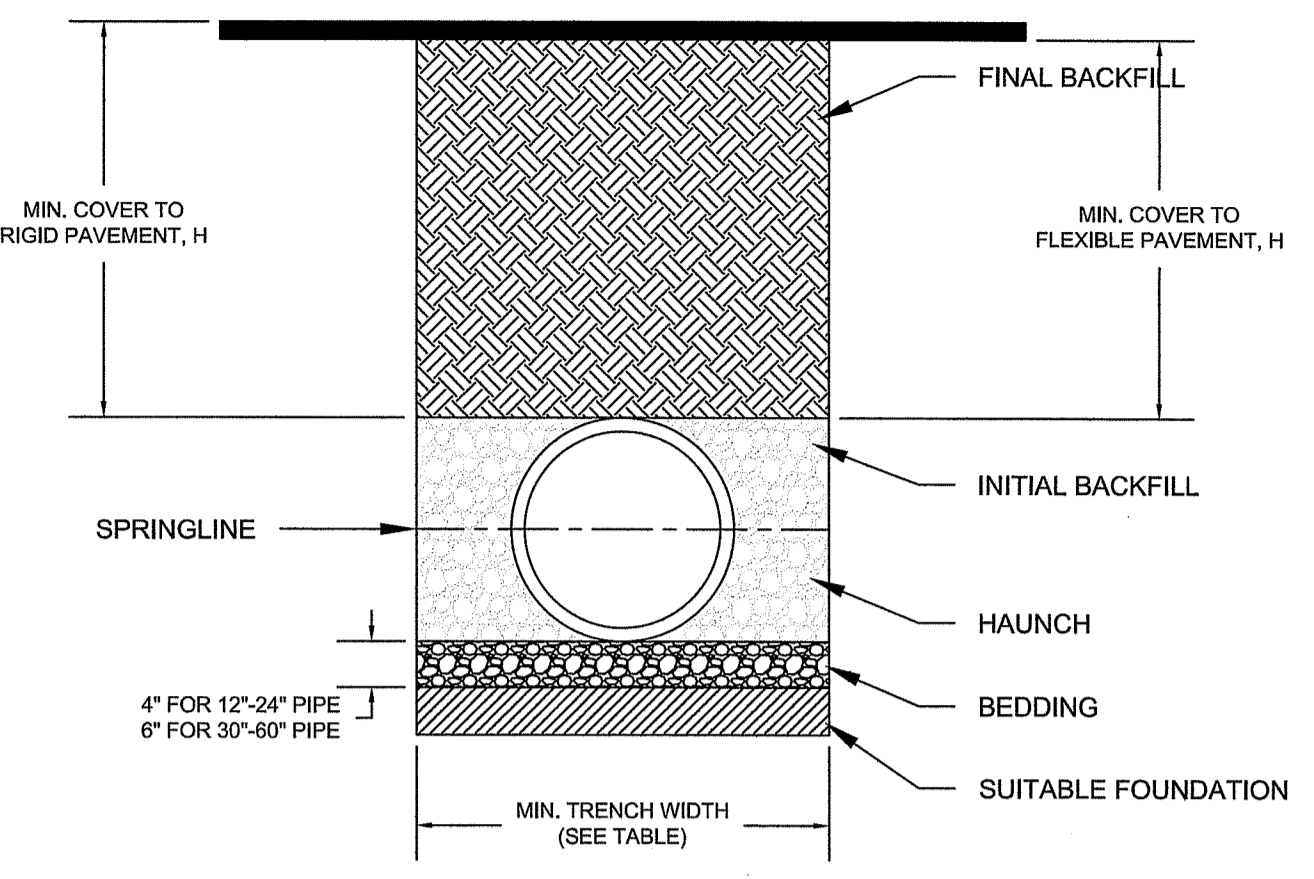
NOTES:
 1. L_a IS THE LENGTH OF THE RIPRAP APRON.
 2. $D = 1.5$ TIMES THE MAXIMUM STONE DIAMETER BUT NOT LESS THAN 6".
 3. IN A WELL-DEFINED CHANNEL, EXTEND THE APRON UP THE CHANNEL BANKS TO AN ELEVATION OF 6" ABOVE THE MAXIMUM TAILWATER DEPTH OR TO THE TOP OF THE BANK (WHICHEVER IS LESS).
 4. A FILTER BLANKET OR FILTER FABRIC SHOULD BE INSTALLED BETWEEN THE RIPRAP AND THE SOIL FOUNDATION.

PROJECT ENGINEER
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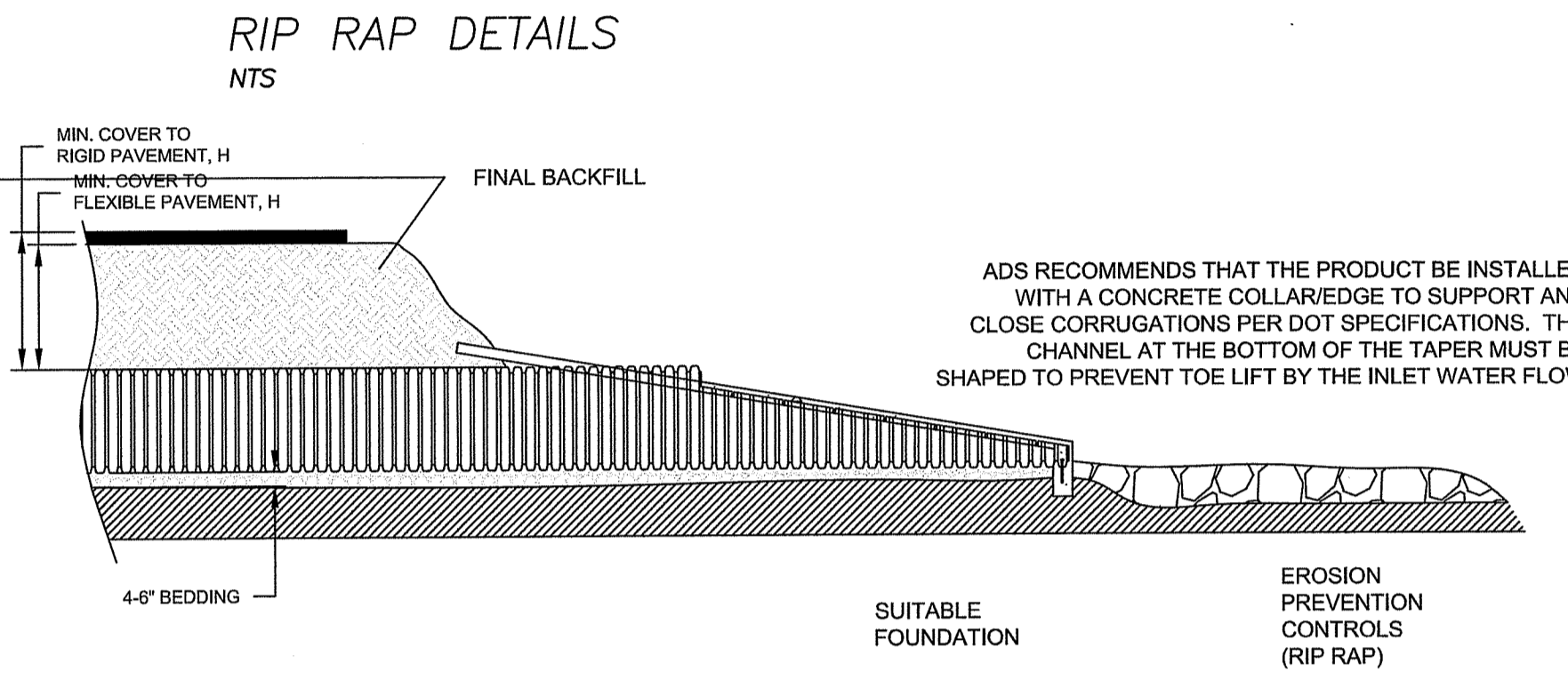
JOHN W. HAMPTON
 No. 12485
 REGISTERED PROFESSIONAL ENGINEER
 CIVIL

- LEGEND:**
- WF-100 ▲ WETLAND FLAG
 - WETLAND AREA
 - WETLAND EDGE
 - SE 1-1 ■ SOIL EVALUATION TEST HOLE
 - UTILITY POLE
 - ELECTRIC OVERHEAD WIRES
 - EXISTING TREE LINE
 - PROPOSED PAVEMENT AREA
 - IRF EXISTING IRON ROD
 - DRAIN LINE
 - WELL
 - FES 2 FLARED END SECTION
 - DMH 1 DRAIN MANHOLE
 - CB 1 CATCH BASIN BUILDING
 - 100 PROPOSED CONTOUR
 - 100 EXISTING CONTOUR
 - EXISTING LIMIT OF DISTURBANCE
 - PROPOSED EROSION CONTROL
 - - - - - PROPOSED WELL LINE
 - - - - - EXISTING SEPTIC LINE
 - CHAIN LINK FENCE

Elevation (feet)	Surface (sq-ft)	Storage (cubic-feet)
524.00	1,581	0
524.05	1,856	80
524.10	1,751	166
524.15	1,845	255
524.20	1,940	350
524.25	2,035	449
524.30	2,129	554
524.35	2,224	662
524.40	2,319	776
524.45	2,414	894
524.50	2,509	1,017
524.55	2,603	1,145
524.60	2,698	1,278
524.65	2,793	1,415
524.70	2,888	1,557
524.75	2,982	1,704
524.80	3,077	1,855
524.85	3,172	2,011
524.90	3,266	2,172
524.95	3,361	2,338
525.00	3,456	2,509
525.05	3,498	2,682
525.10	3,539	2,858
525.15	3,581	3,036
525.20	3,623	3,216
525.25	3,665	3,399
525.30	3,706	3,583
525.35	3,748	3,769
525.40	3,790	3,958
525.45	3,831	4,148
525.50	3,873	4,341
525.55	3,915	4,535
525.60	3,956	4,732
525.65	3,998	4,931
525.70	4,040	5,132
525.75	4,082	5,335
525.80	4,123	5,540
525.85	4,165	5,747
525.90	4,207	5,957
525.95	4,248	6,168
526.00	4,290	6,382

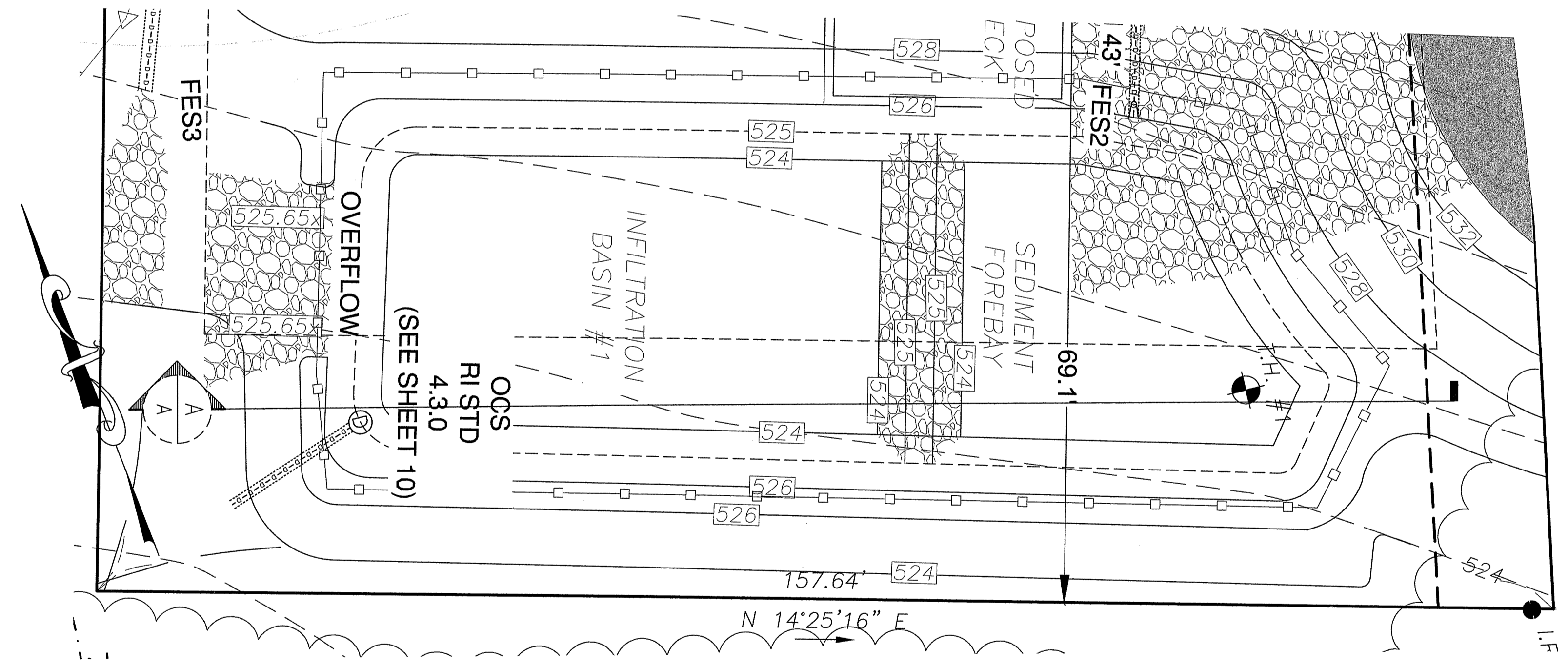


- NOTES:**
- ALL PIPE SYSTEMS SHALL BE INSTALLED IN ACCORDANCE WITH ASTM D2321, "STANDARD PRACTICE FOR UNDERGROUND INSTALLATION OF THERMOPLASTIC PIPE FOR SEWERS AND OTHER GRAVITY FLOW APPLICATIONS", LATEST EDITION.
 - MEASURES SHOULD BE TAKEN TO PREVENT MIGRATION OF NATIVE FINES INTO BACKFILL MATERIAL, WHEN REQUIRED.
 - FOUNDATION: WHERE THE TRENCH BOTTOM IS UNSTABLE, THE CONTRACTOR SHALL EXCAVATE TO A DEPTH REQUIRED BY THE ENGINEER AND REPLACE WITH SUITABLE MATERIAL AS SPECIFIED BY THE ENGINEER. AS AN ALTERNATIVE AND AT THE DISCRETION OF THE DESIGN ENGINEER, THE TRENCH BOTTOM MAY BE STABILIZED USING A GEOTEXTILE MATERIAL.
 - BEDDING: SUITABLE MATERIAL SHALL BE CLASS I, II OR III. THE CONTRACTOR SHALL PROVIDE DOCUMENTATION FOR MATERIAL SPECIFICATION TO ENGINEER. UNLESS OTHERWISE NOTED BY THE ENGINEER, MINIMUM BEDDING THICKNESS SHALL BE 4" FOR 4"-24" DIAMETER PIPES; AND 6" FOR 30"-60" DIAMETER PIPES.
 - INITIAL BACKFILL: SUITABLE MATERIAL SHALL BE CLASS I, II OR III IN THE PIPE ZONE EXTENDING TO THE CROWN OF PIPE. THE CONTRACTOR SHALL PROVIDE DOCUMENTATION FOR MATERIAL SPECIFICATION TO ENGINEER. MATERIAL SHALL BE INSTALLED AS REQUIRED IN ASTM D2321, LATEST EDITION.
 - MINIMUM COVER: MINIMUM COVER, H, IN NON-TRAFFIC APPLICATIONS (GRASS OR LANDSCAPE AREAS) IS 12" FROM THE TOP OF PIPE TO GROUND SURFACE. ADDITIONAL COVER MAY BE REQUIRED TO PREVENT FLOTATION. FOR TRAFFIC APPLICATIONS, MINIMUM COVER, H, IS 12" UP TO 48" DIAMETER PIPE PIPE, MEASURED FROM TOP OF PIPE TO BOTTOM OF FLEXIBLE PAVEMENT OR TO TOP OF RIGID PAVEMENT. FOR TRAFFIC APPLICATIONS WITH LESS THAN FOUR FEET OF COVER, EMBEDMENT OF THE PIPE SHALL BE USING ONLY A CLASS I OR CLASS II BACKFILL.



ADS RECOMMENDS THAT THE PRODUCT BE INSTALLED WITH A CONCRETE COLLAREGE TO SUPPORT AND CLOSE CORRUGATIONS PER DOT SPECIFICATIONS. THE CHANNEL AT THE BOTTOM OF THE TAPER MUST BE SHAPED TO PREVENT TOE LIFT BY THE INLET WATER FLOW

FLARED END SECTION DETAILS NTS



BIORETENTION BASIN #1 ELEVATION

WQV = 524.23
 1-YEAR = 524.65
 10-YEAR = 525.15
 100-YEAR = 525.62

EMBANKMENT MATERIAL
 PROPOSED SILT CLAY WITH AT LEAST 30% PASSING THE 200 SIEVE AREA TO BE COMPACTED TO 95% OF STANDARD PROCTOR TEST ON ALL EMBANKMENT THAT ARE HIGHER THAN SURROUNDING GRADES. MATERIAL SHALL BE FREE OF ROOTS, STUMPS, WOOD RUBBISH, STONES GREATER THAN 6" OR ANY MAN MADE MATERIAL.

SEDIMENT FOREBAY INSPECTION NOTES:

- THE SEDIMENT FOREBAY SHALL BE INSPECTED BI-ANNUALLY AND AFTER STORM EVENTS GREATER THAN 1 INCH
- TRASH AND LITTER ON THE SURFACE SHALL BE REMOVED
- IF STANDING WATER IS OBSERVED IN THE BI-RETENTION AREA FOR MORE THAN 48 HOURS AFTER A STORM EVENT. THEN THE TOP 6" OF MATERIAL SHALL BE REPLACED WITH NEW MATERIAL. IF DISCOLORED OR CONTAMINATED MATERIAL IS FOUND BELOW THE REMOVED SURFACE THEN ALL CONTAMINATED SOIL SHALL BE REMOVED AND REPLACED. THE CONTAMINATED SOIL SHALL BE DISPOSED OF IN ACCORDANCE WITH FEDERAL AND LOCAL REGULATION.
- THE BERM AROUND THE BI-RETENTION AREA SHALL BE INSPECTED FOR EROSION AND GULLING. ANY AREA THAT HAS GULLING AND EROSION SHALL BE REPAIRED. EXISTING RIPRAP AREAS SHALL BE INSPECTED BI-ANNUALLY. ALL RIP RAP PADS SHALL BE CLEAN, AND SEDIMENT REMOVED WHEN IT HAS FILLED THE VOIDS BETWEEN THE ROCKS. SEDIMENT BUILDUP SHALL BE REMOVED WHEN SEDIMENT EXCEEDS 50% OF THE STORAGE VOLUME OF THE SEDIMENT FOREBAY.

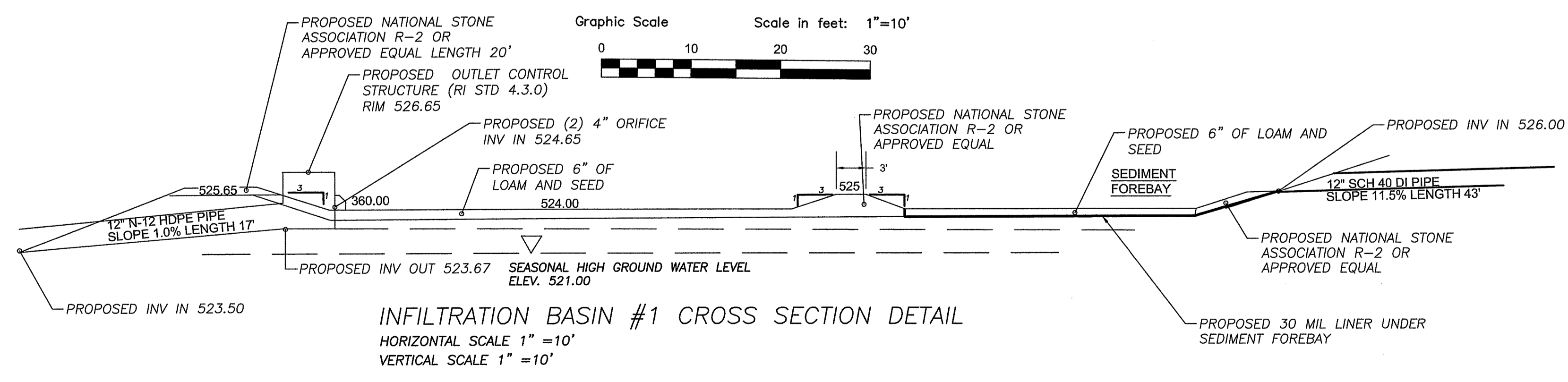
INFILTRATION BASIN #1 WATER QUALITY SIZING
 WQV FROM HYDRO FROM THE 1.2 STORM EVENT 1608 CF SEE APPENDIX F PAGE 10 OF THE STORM WATER REPORT
 25% OF (1608 CF) = 402 CF
 SEDIMENT FOREBAY SIZE (879 SF + 1271 SF) / 2 * 1 FT = 1074 CF
 1074 CF > 402 CF OK
 75% OF (1608 CF) = 1206 CF
 PROVIDED STATIC STORAGE @ ELEV 524.65 = 1,415 CF
 PER APPENDIX F PAGE 13 OF THE STORM WATER REPORT
 1,415 CF > 1206 CF OK

PIPE TRENCH DETAILS

BANK RUN GRAVEL SPEC.

SIEVE SIZE	% PASSING
3"	100%
3/4"	90%-100%
1/4"	25%-50%
#10	15%-45%
#40	5%-25%
#100	0%-5%
#200	0%

PIPE DIAM.	MIN. TRENCH WIDTH
4"	21"
(100mm)	(533mm)
6"	23"
(150mm)	(584mm)
8"	26"
(200mm)	(660mm)
10"	28"
(250mm)	(711mm)
12"	30"
(300mm)	(762mm)
15"	34"
(375mm)	(864mm)
18"	39"
(450mm)	(991mm)
24"	48"
(600mm)	(1219mm)
30"	56"
(750mm)	(1422mm)
36"	64"
(900mm)	(1626mm)
42"	72"
(1050mm)	(1829mm)
48"	80"
(1200mm)	(2032mm)
60"	96"
(1500mm)	(2438mm)



INFILTRATION BASIN #1 CROSS SECTION DETAIL
 HORIZONTAL SCALE 1" = 10'
 VERTICAL SCALE 1" = 10'

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Scale in feet: 1"=20'
 0 20 40 60
 Revisions:

SAMUEL R. SIORSA
 No. 2608
 REGISTERED PROFESSIONAL LAND SURVEYOR

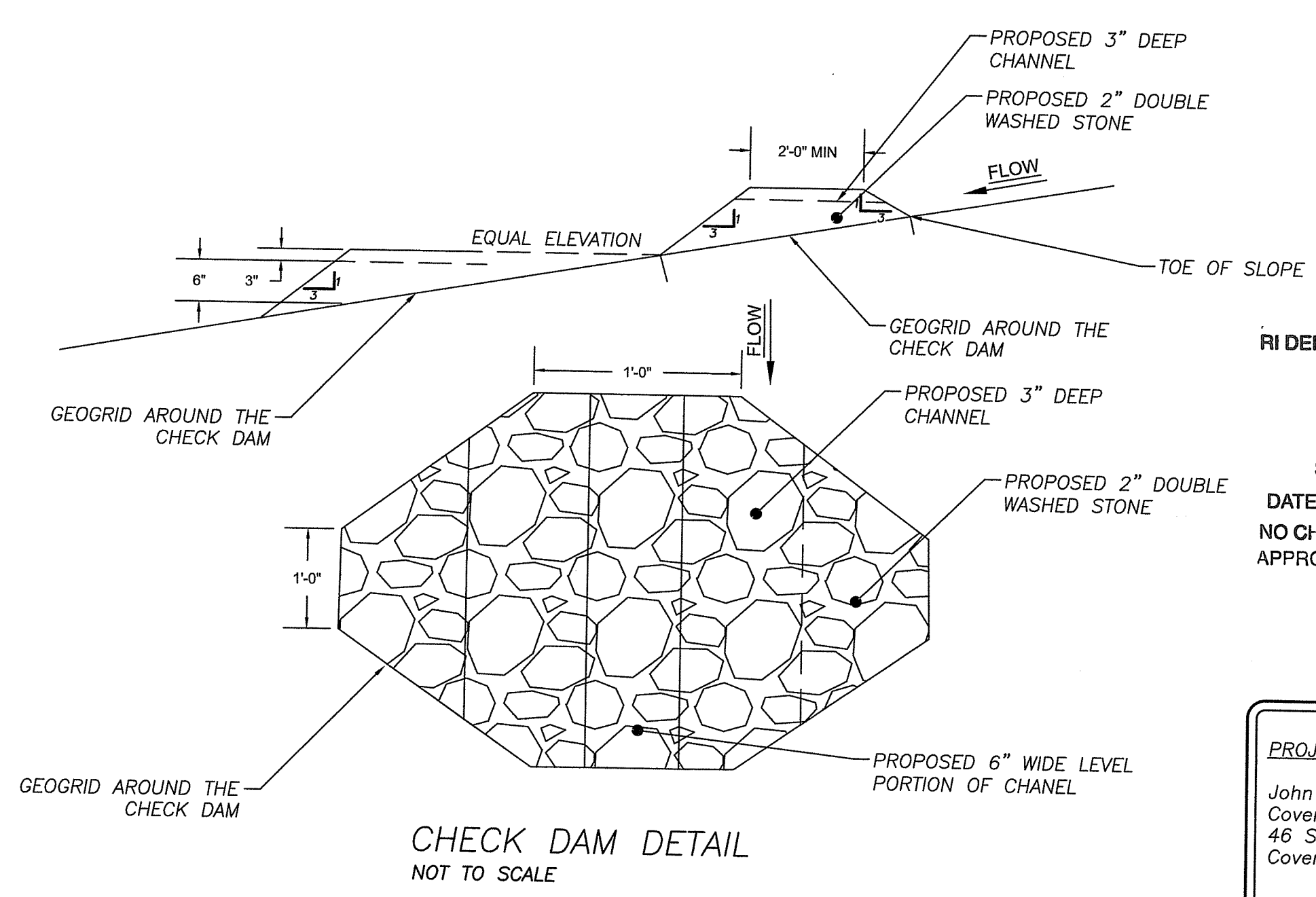
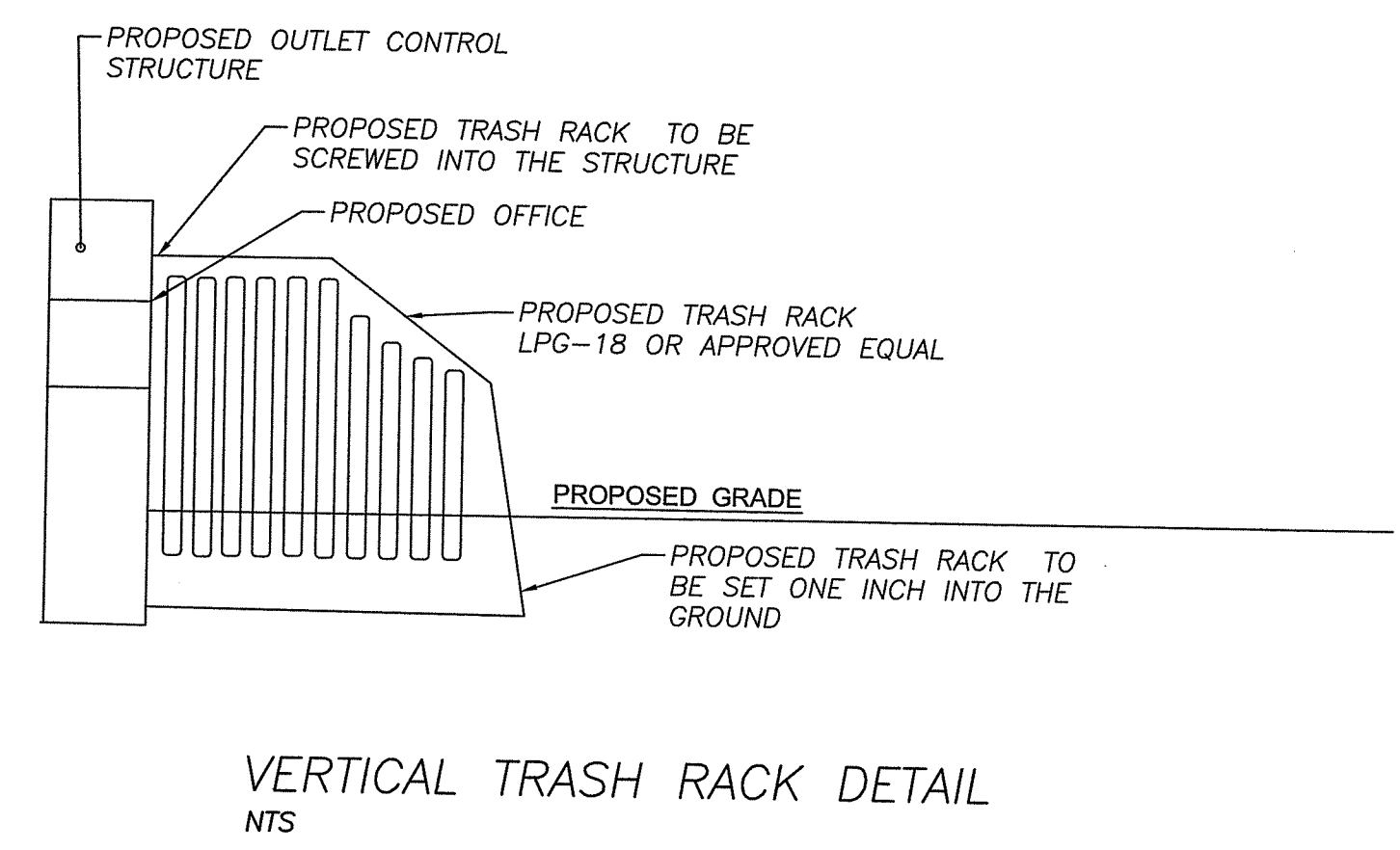
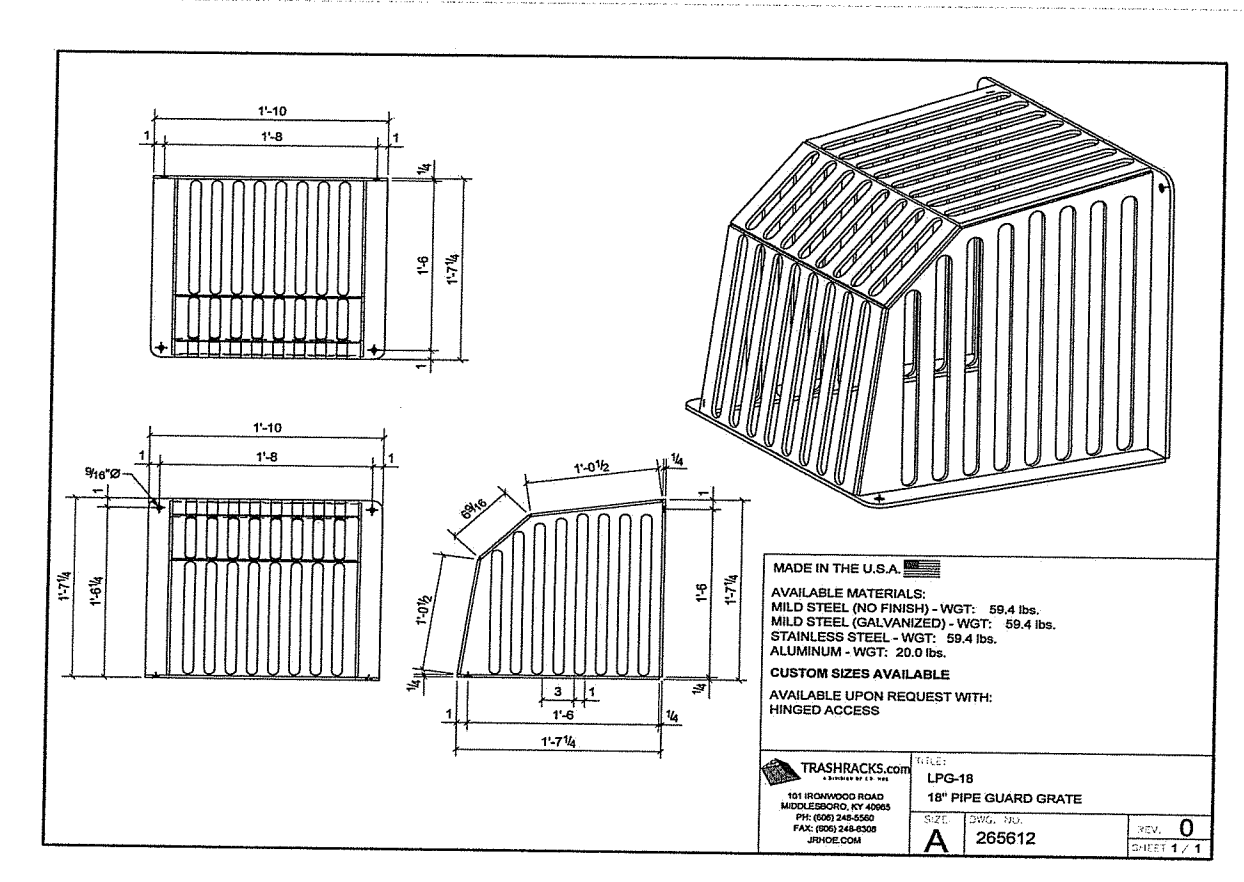
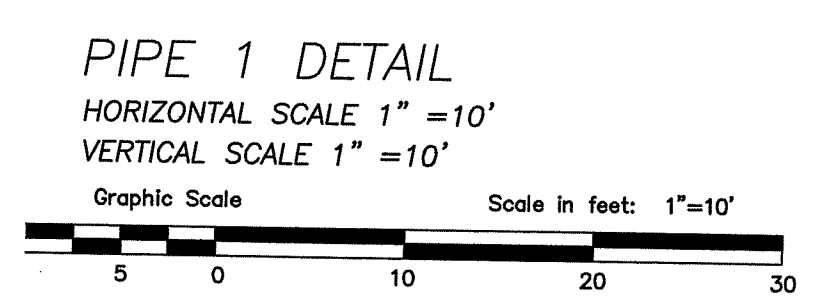
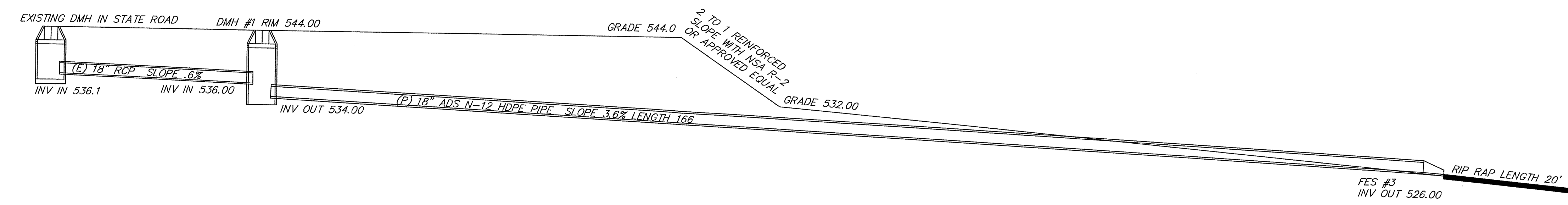
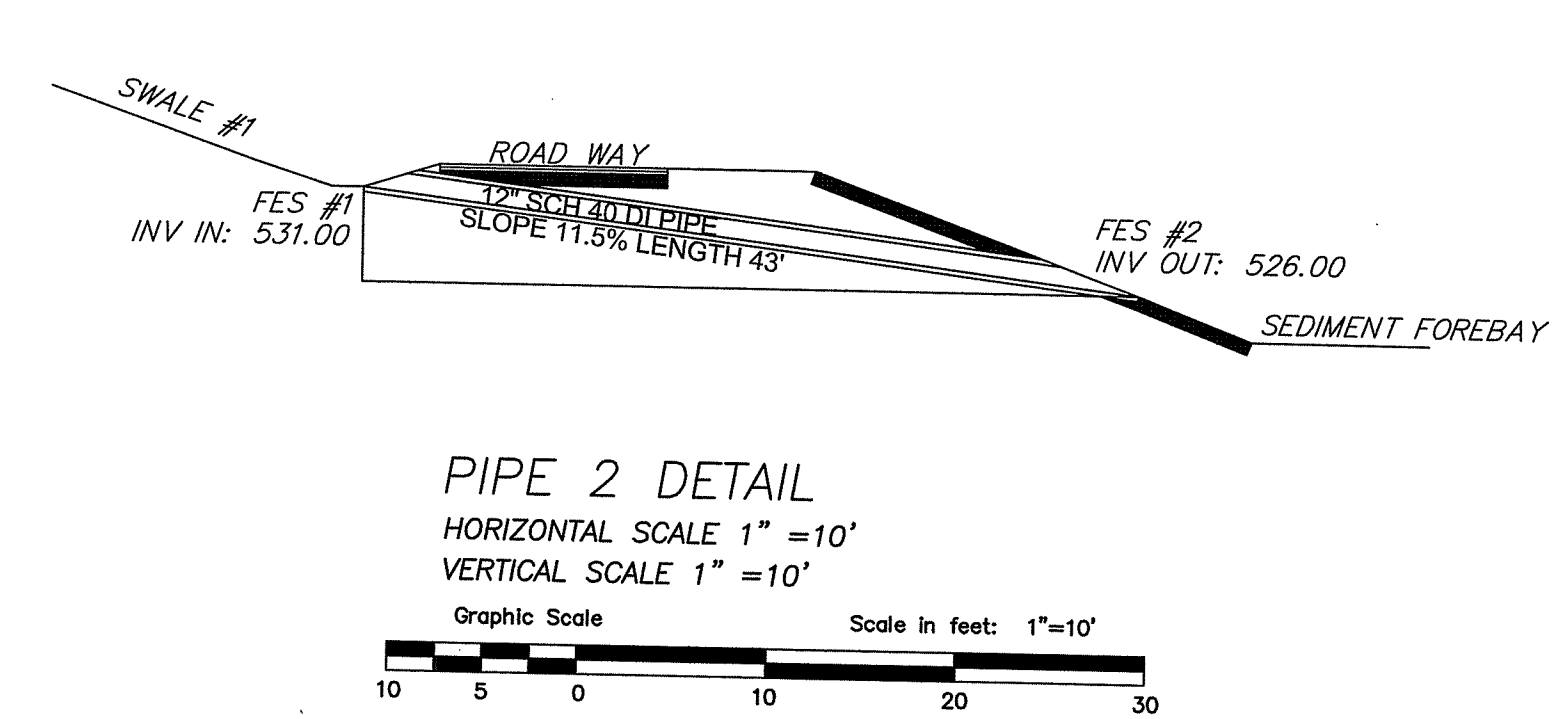
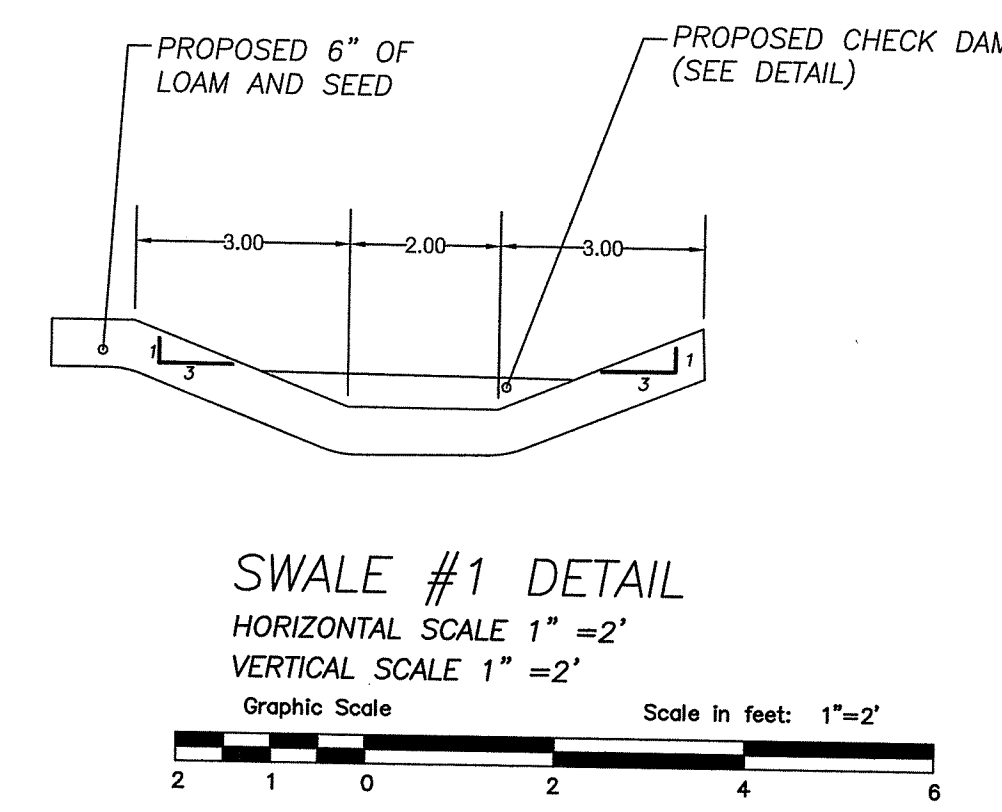
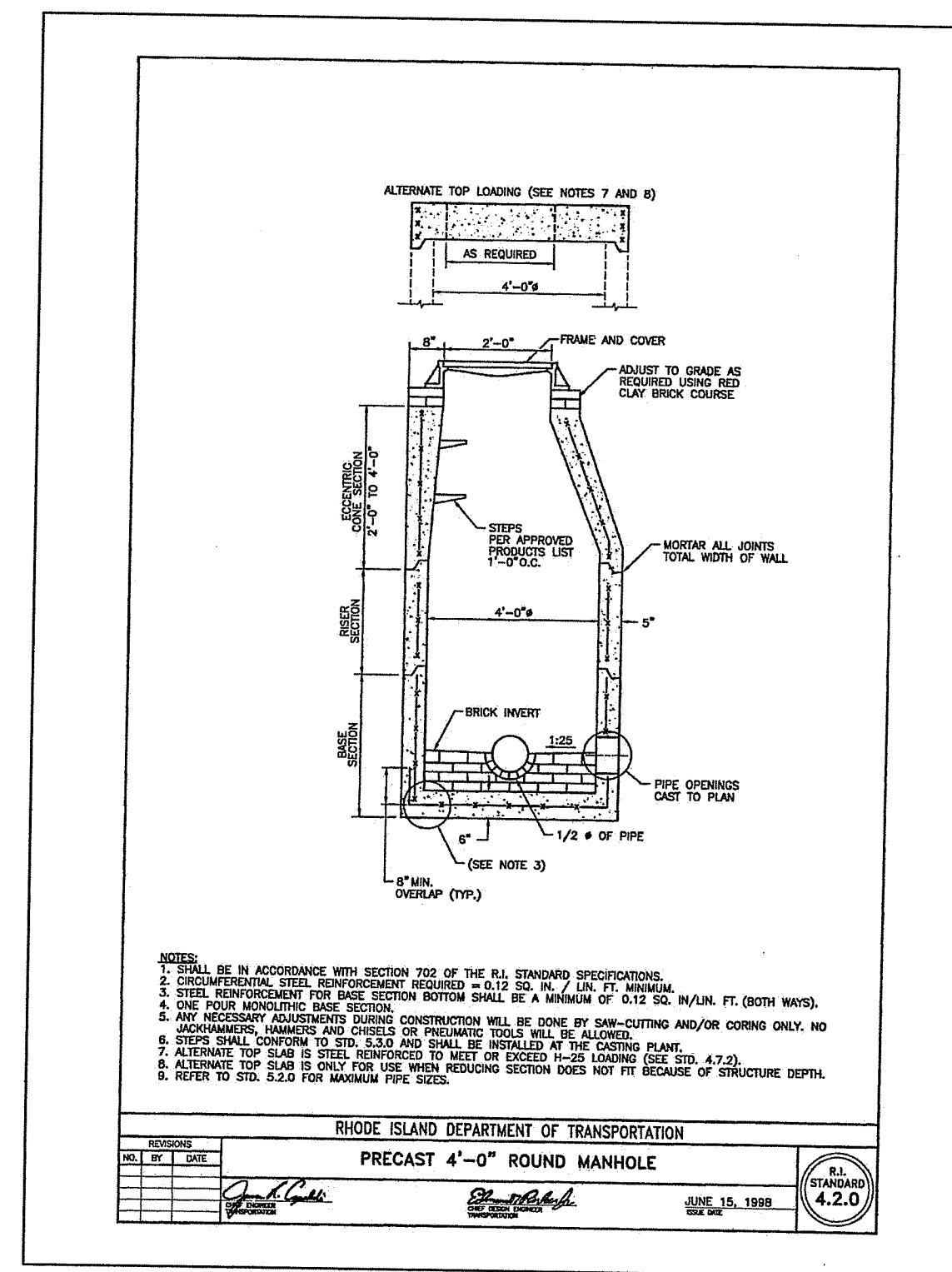
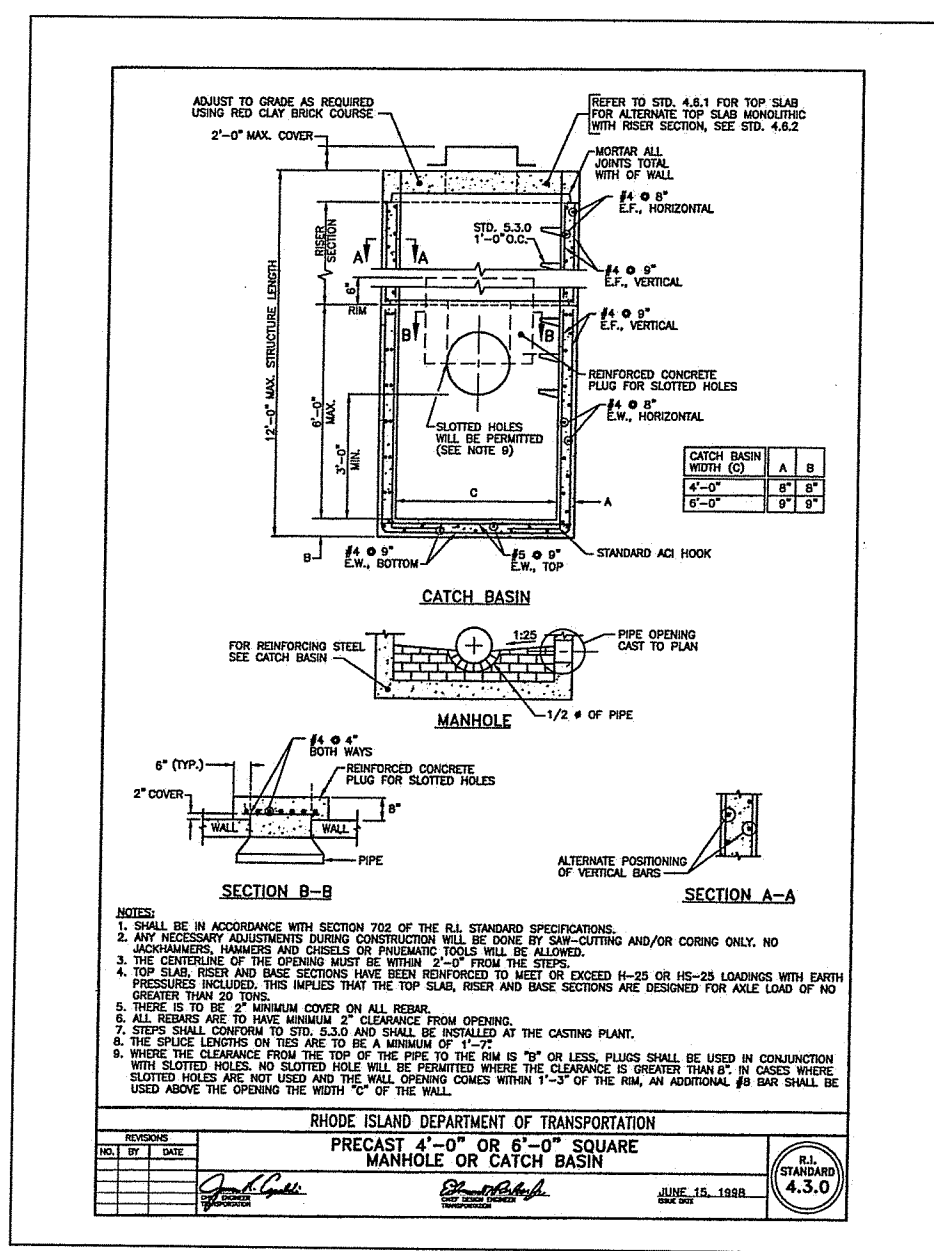
CSDG
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Sheet 9 of 12

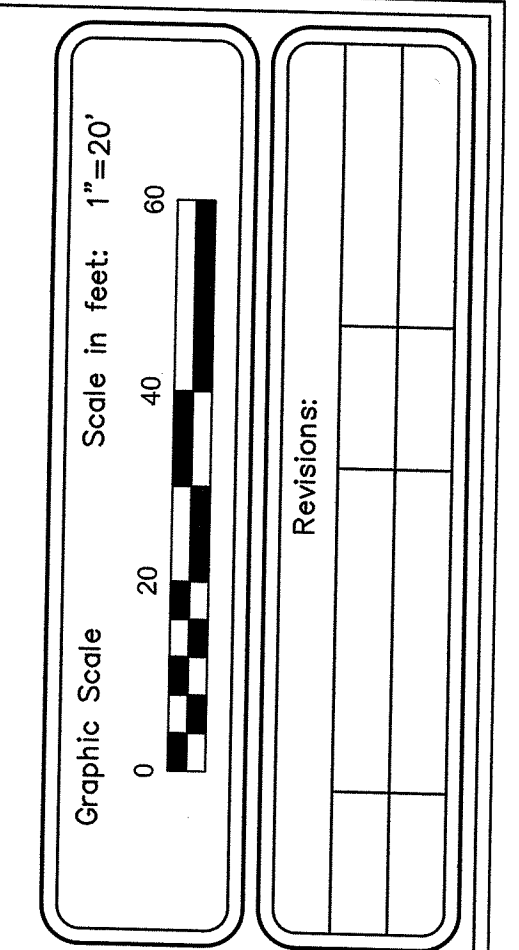


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John D. Wainwright

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"New England Auto Chateau"
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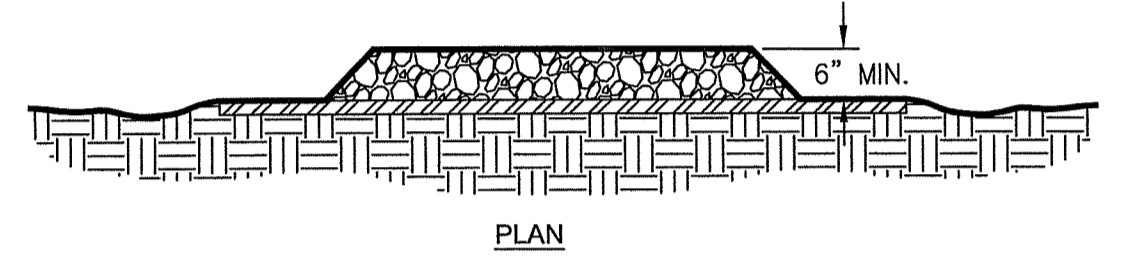
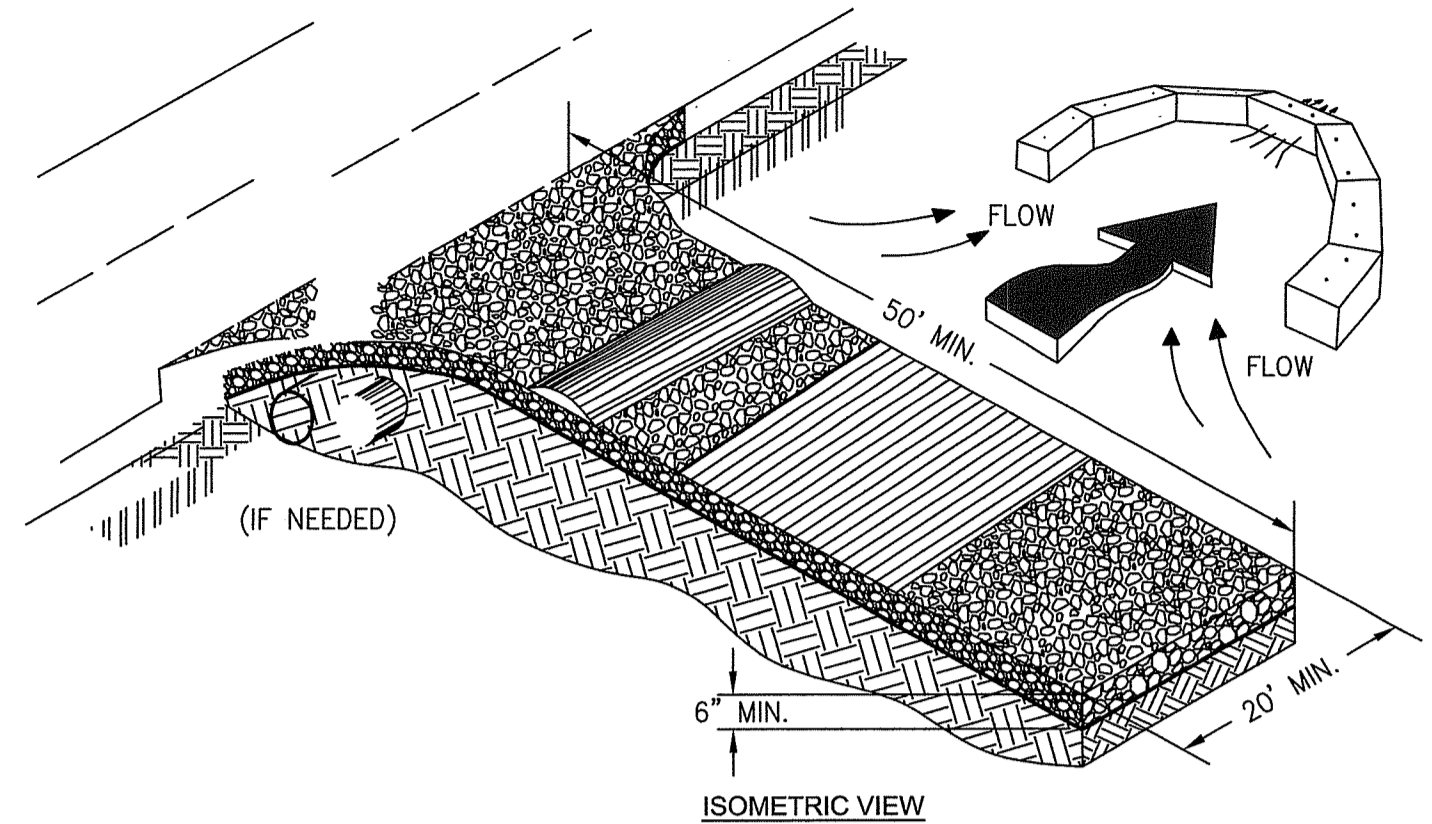
Sheet 10 of 12

- SEQUENCE OF CONSTRUCTION AND STAGING OF CONSTRUCTION ACTIVITIES:
1. THE CONTRACTOR IS RESPONSIBLE FOR THE INSTALLATION AND MAINTENANCE OF EROSION CONTROL METHODS ON SITE. THESE METHODS ARE SUBJECT TO CHANGE AS SITE CONDITIONS WARRANT WITH PRIOR APPROVAL FROM THE TOWN OF COVENTRY REPRESENTATIVE.
 2. SURVEY AND STAKE THE LOCATION OF THE BMPS, EROSION CONTROL, AND UTILITY LINES (WATER, WELL, SEPTIC FIELD) ALONG WITH THE LOCATION OF THE BUILDING.
 3. INSTALL THE SEDIMENT CONTROL BARRIERS. THESE BARRIERS SHALL DELINEATE THE LIMIT OF WORK. NO WORK OR STORAGE OF MATERIALS SHALL TAKE PLACE OUTSIDE THE LIMIT OF DISTURBANCE.
 4. BEGIN CLEARING AND GRUBBING THE SITE. TOP SOIL SHALL BE STRIPED AND STOCKPILED IN APPROVED LOCATIONS.
 5. EXCAVATE AND GRADE THE SITE. INSTALL GRAVEL BELOW THE PROPOSED BUILDING LOCATIONS.
 6. CONSTRUCT THE BUILDING FOUNDATION.
 7. INSTALL UTILITY CONNECTIONS.
 8. CONSTRUCT THE BUILDING AND ADDITION.
 9. GRADE AND INSTALL FINAL STORMWATER BMPS AND BITUMINOUS DRIVEWAY.
 10. LOAM AND SEED DISTURBED AREAS.
 11. FINISH STABILIZATION SWEEP PARKING LOT AND DRIVEWAY AND REPAIR ANY DAMAGE.

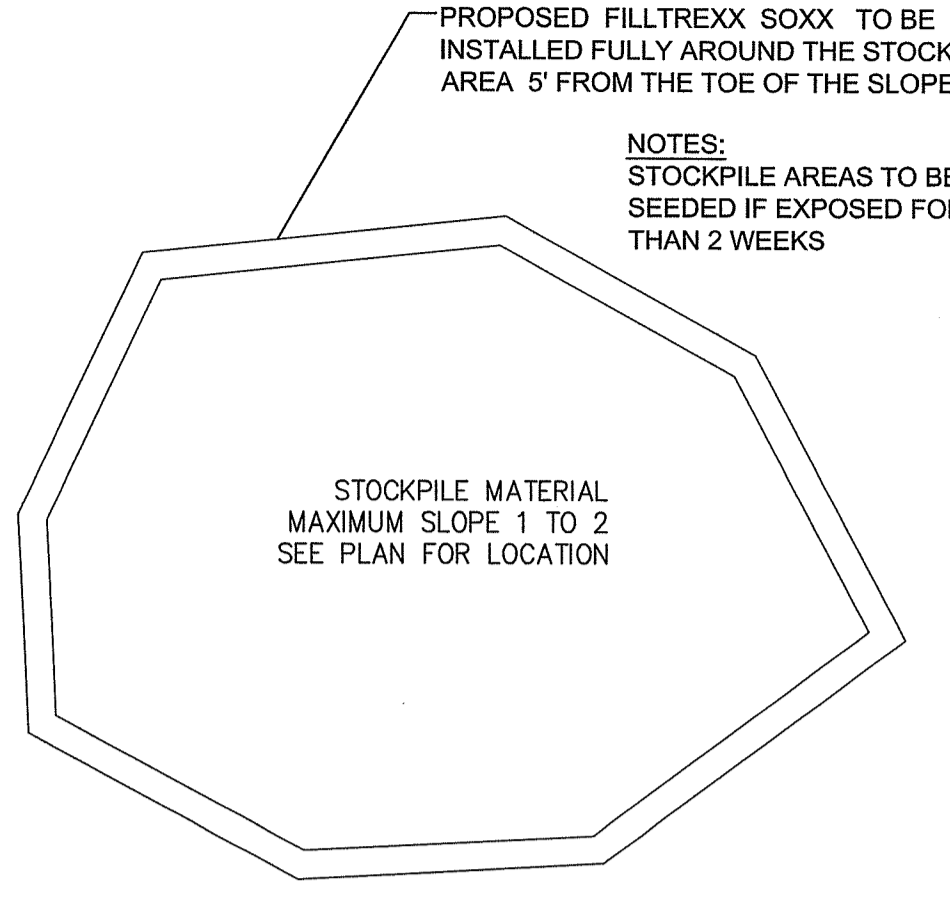
- GENERAL EROSION CONTROL NOTES:
1. THE TEMPORARY EROSION CONTROL SYSTEMS SHALL MEET ALL THE REQUIREMENT FOR TEMPORARY SEDIMENT TRAPS AS OUTLINED IN THE RHODE ISLAND SOIL EROSION AND SEDIMENT CONTROL HANDBOOK (REVISED 2016) SECTION 6 SEDIMENT CONTROL MEASURES.
 2. ALL SEDIMENT CONTROL SHALL BE INSTALLED PRIOR TO THE START OF CURRENT PHASE. CONSTRUCTION SHALL BE MAINTAINED IN ACCORDANCE WITH THE MAINTENANCE SCHEDULE PROVIDED AND REMOVED 14 DAYS AFTER FINAL SOIL STABILIZATION.
 3. ANY SLOPE GREATER THAN 2:1 SHALL BE STABILIZED WITH EROSION CONTROL BLANKETS.
 4. ALL SEDIMENT CONTROL SYSTEMS SHALL BE INSPECTED EVERY 7 DAYS OR 24 HOURS AFTER A RAIN EVENT GREATER THAN 0.25 INCHES. AN INSPECTION REPORT SHALL BE FILLED OUT AND SIGNED BY THE INSPECTOR.
 5. IF ANY EROSION CONTROL SYSTEM REQUIRES MAINTENANCE, THAT MAINTENANCE SHALL BE COMPLETED WITHIN 24 HOURS FOR A MINOR REPAIR AND 7 DAYS FOR A LARGE REPAIR.
 6. ALL INSPECTION REPORTS SHALL BE KEPT ON SITE DURING CONSTRUCTION.

- INSPECTION AND MAINTENANCE SCHEDULE:
1. EROSION CONTROL SHALL BE INSTALLED PRIOR TO CONSTRUCTION.
 2. CHECK FOR SEDIMENT ACCUMULATION EVERY 7 DAYS. WHEN ACCUMULATIONS REACH ONE HALF OF THE HEIGHT OF THE EXPOSED STRAW WATTLE SEDIMENT SHALL BE REMOVED AND DISPOSED OF IN A SUITABLE AREA

- ESTABLISHMENT OF VEGETATIVE COVER:
1. SLOPES SHALL NOT BE LEFT UNATTENDED OR EXPOSED FOR MORE THAN 14 DAYS AFTER CONSTRUCTION UNLESS WORK IS TO CONTINUE WITHIN 21 DAYS.
 2. ALL DISTURBED SLOPE SHALL BE LESS STEEP THAN A 2 TO 1 SLOPE.
 3. THE TEMPORARY SEEDING DESIGN MIX SHALL BE COMPRISED OF THE FOLLOWING:
 - ANNUAL RYE GRASS 40% BY WEIGHT
 - PERENNIAL RYE GRASS 60% BY WEIGHT
 4. THE SITE STABILIZATION SEED MIX SHALL BE URI #2 AND COMPRISES OF THE FOLLOWING:
 - CREEPING RED FESCUE 40% BY WEIGHT
 - IMP. PER. RYE GRASS 20% BY WEIGHT
 - IMP. KENTUCKY BLUEGRASS 30% BY WEIGHT
 - KENTUCKY BLUE GRASS 10% BY WEIGHT
 5. SEEDING SCHEDULE SHALL CONFORM TO THE RHODE ISLAND DEPARTMENT OF TRANSPORTATION STANDARD SPECIFICATIONS FOR ROAD AND BRIDGE CONSTRUCTION L.02.03.1 SEEDING DATES. FERTILIZER TO BE USED AT THE MINIMUM REQUIRED DOSING AS REQUIRED WITH ENGINEER OF RECORD APPROVAL.
 6. ALL SILTATION SEDIMENT CONTROL SHALL REMAIN IN PLACE UNTIL 90% PERMANENT GRASS IS ESTABLISHED.
 7. MAXIMUM PERMANENT GRADE TO BE NO GREATER THAN 3:1 UNLESS NOTED ON THE PLAN.
 8. TEMPORARY SLOPES AND SOCKPILE AREAS SHALL NOT HAVE SLOPES GREATER THAN 2:1 AND SHALL BE TEMPORARILY SEEDED IF EXPOSED FOR GREATER THAN 14 DAYS.
 9. THE CONTRACTOR SHALL HAVE OVERALL RESPONSIBILITY FOR THE PLAN IMPLEMENTATION. THE CONTRACTOR MUST REPAIR/RESEED ANY AREAS THAT DO NOT DEVELOP WITHIN A ONE YEAR PERIOD AT NO ADDITIONAL EXPENSE TO THE OWNER.



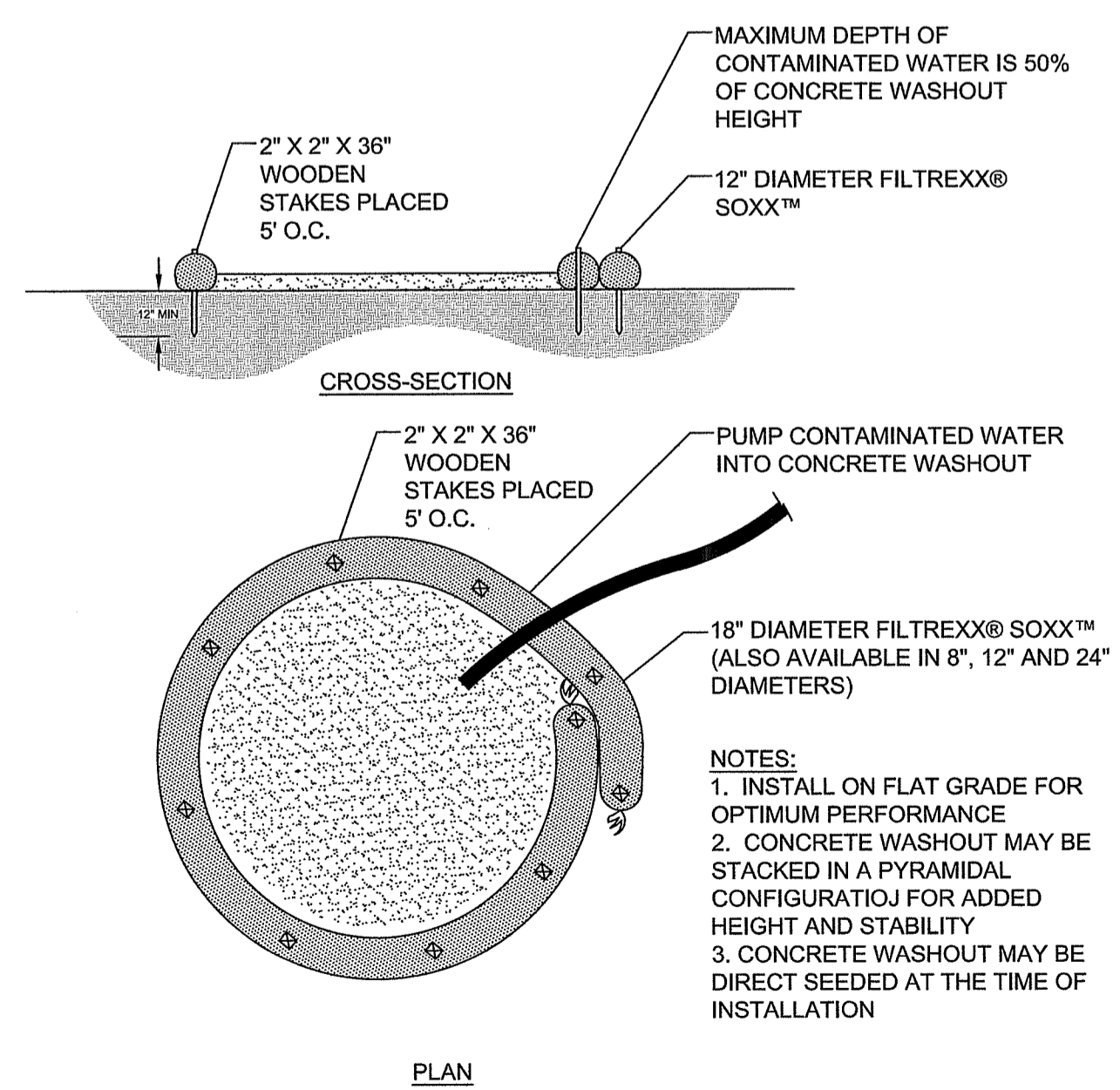
- NOTES:
1. REMOVE ALL VEGETATION AND OTHER UNSUITABLE MATERIAL FROM THE FOUNDATION AREA, GRADE, AND CROWN FOR POSITIVE DRAINAGE.
 2. AGGREGATE SIZE SHALL BE IN ACCORDANCE WITH NATIONAL STONE ASSOCIATION R-2 (1.5"-3.5" STONE).
 3. GRAVEL PAD SHALL HAVE A MINIMUM THICKNESS OF 6".
 4. PAD WIDTH SHALL BE EQUAL AND FULL WIDTH AT ALL POINTS OF VEHICULAR EGRESS, BUT NO LESS THAN 20'.
 5. A DIVERSION RIDGE SHOULD BE CONSTRUCTED WHEN GRADE TOWARD PAVED AREA IS GREATER THAN 2%.
 6. INSTALL PIPE UNDER THE ENTRANCE IF NEEDED TO MAINTAIN DRAINAGE DITCHES.
 7. MAINTAIN AREA IN A WAY THAT PREVENTS TRACKING AND/OR FLOW OF MUD ONTO PUBLIC RIGHTS-OF-WAYS. THIS MAY REQUIRE TOP DRESSING, REPAIR AND/OR CLEANOUT OF ANY MEASURES USED TO TRAP SEDIMENT.



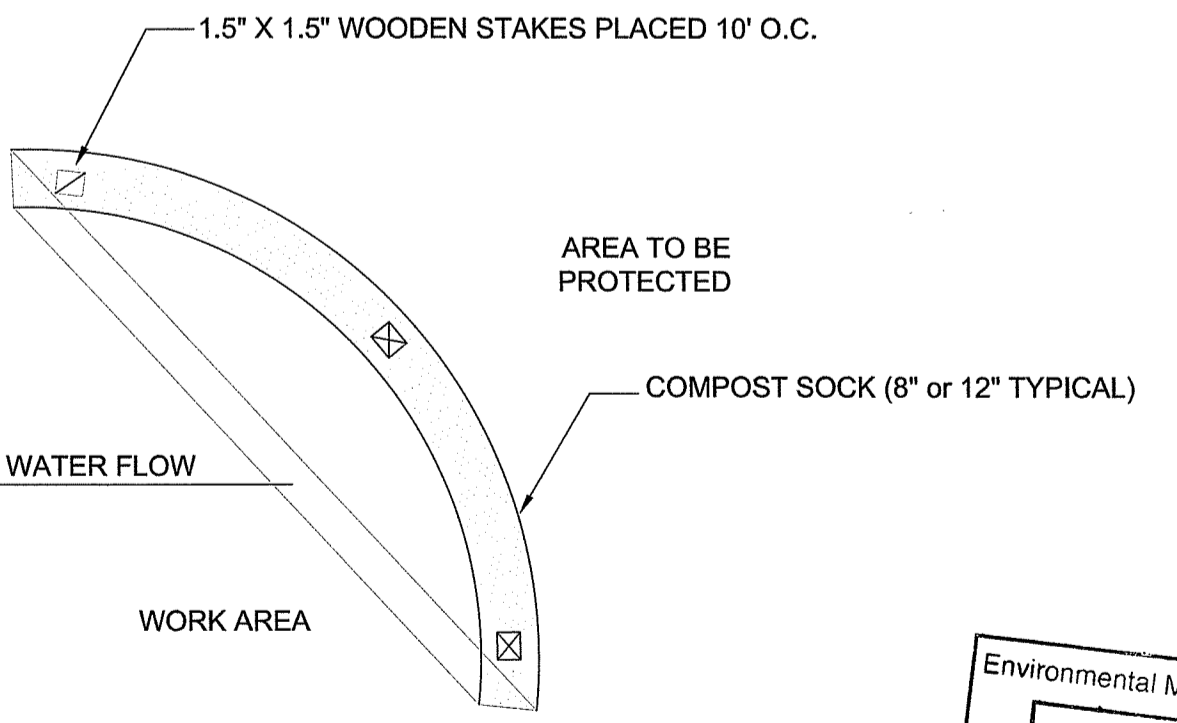
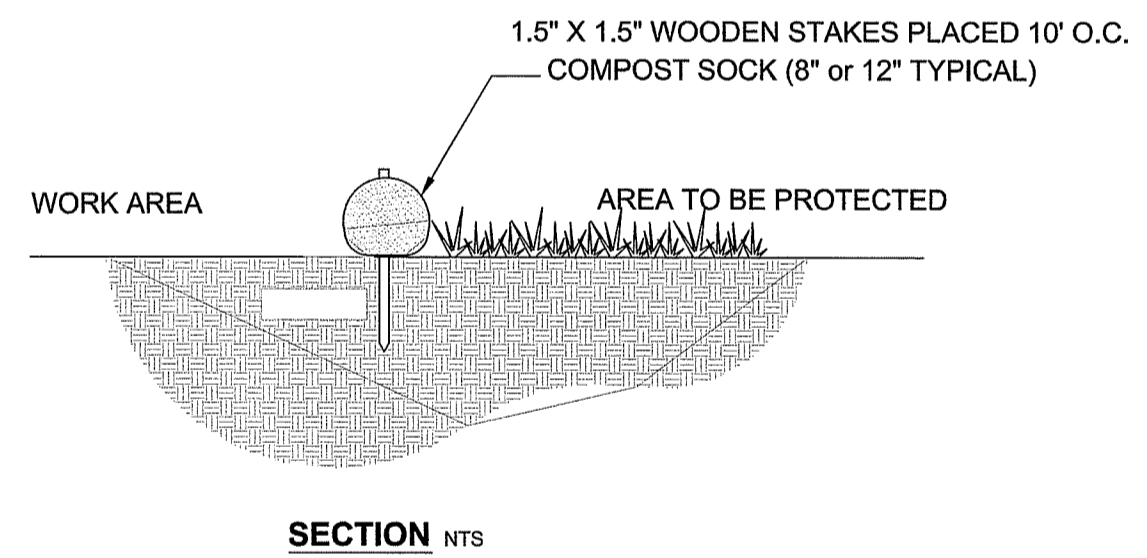
STOCKPILE DETAIL
SCALE: N.T.S.

RI DEPARTMENT OF ENVIRONMENTAL MANAGEMENT
OFFICE OF WATER RESOURCES
FRESHWATER WETLANDS PROGRAM
APPROVED WITH CONDITIONS AS
SPECIFIED IN THE LETTER OF APPROVAL
DATED: FEB 10 2025 FILE # 24-0316
NO CHANGES ALLOWED WITHOUT PRIOR APPROVAL
APPROVED PLANS MUST BE AT CONSTRUCTION SITE
Mark D. Wenzel

CONSTRUCTION ENTRANCE DETAIL
SCALE: N.T.S.



CONCRETE CLEANOUT DETAIL
SCALE: N.T.S.



- NOTES:
1. ALL MATERIAL TO MEET SPECIFICATIONS.
 2. COMPOST SOCKS FILL TO MEET APPLICATION REQUIREMENTS.
 3. FILTER MEDIA TO BE DISPERSED ON SITE, AS DETERMINED BY ENGINEER.

FILTREXX SOXX DETAIL
SCALE: N.T.S.

Scale in feet: 1"=20'
0 20 40 60
Graphic Scale

Revisions:

SAMUEL R. SUORSA
No. 2508
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CSDG
Coventry Survey Design Group
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401-823-5028
coventrysurvey.com

"New England Auto Chateau"
Assessor's Plat 20, Block 4, Lot 17
Nosonack Hill Road
in the Town of Exeter, Rhode Island
Prepared for: London Kendrick
121 Howard Avenue, Coventry, RI 02816

PROPOSED GRADING AND DRAINAGE PLAN

Environmental Management
DEC 27 2024
Office of Water Resources

Date:
NOV 26TH, 2024

Sheet 11 of 12

