

AREA OF DISTURBANCE ALONG UTILITY EASEMENT TO BE LOAMED & SEEDED WITH A QUICK GROW SEED AS SOON AS PRACTICAL AFTER CONSTRUCTION. BRUSH TO BE CLEARED ALONG UTILITY EASEMENT ONCE EVERY 3 YEARS.

REVISED L.O.D. PER RIDE#

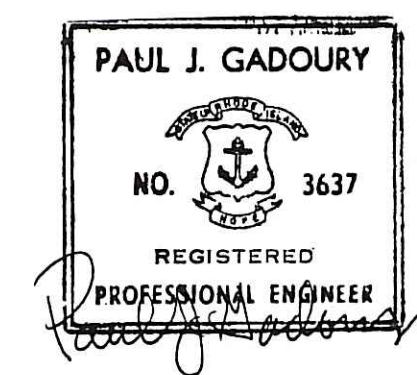
Pet R.I.D.E.M.
 Prior to the installation of utilities, a temporary dam must be installed upgradient of the stream and a bypass pipe utilized to conduct stream flow downstream, outside the limit of work. Sec-Condition No. 19.

SITE PLAN FOR PHASE II
INDUSTRIAL DRIVE COMMERCE PARK
 ASSESSOR'S PLAT 5, LOT 76
 SUB LOT 1, SUBLOT 2, SUBLOT 5
 NORTH SMITHFIELD, RHODE ISLAND
 APRIL, 2010
 SCALE: 1 INCH EQUALS 50 FEET
 SHEET 1 OF 5

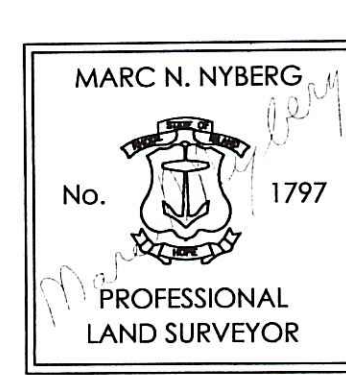
- LEGEND**
- WETLAND AREA
 - WETLAND FLAG
 - EXIST. CONTOUR LINE
 - PROP. CONTOUR LINE
 - FIRE HYDRANT
 - WATER GATE
 - STONE WALL
 - GUARD RAIL
 - EXISTING PROPERTY LINE
 - PROPOSED PROPERTY LINE
 - WETLAND/UPLAND TEST PITS
 - SOIL EVALUATION
 - STREAM
 - RHODE ISLAND HIGHWAY BOUND FOUND
 - SEWER LINE
 - WATER LINE
 - DRAIN LINE
 - GAS LINE
 - PROPOSED UTILITY POLE
 - LIMIT OF DISTURBANCE
 - FILTRATION SOCK (SILT SOCK) AND LIMIT OF DISTURBANCE
 - NORTHERN WHITE CEDAR (Thru occidentalis)
 - 3" HIGH, BAGGED & BALLED, 10' O.C.

DEPARTMENT OF ENVIRONMENTAL MANAGEMENT
 OFFICE OF WATER RESOURCES
 FRESHWATER WETLANDS PROGRAM
 APPROVED WITH CONDITIONS
 AS SPECIFIED IN THE LETTER OF APPROVAL
 DATED SEP 29 2010 FILE # 10-0091
 NO CHANGES ALLOWED WITHOUT PRIOR APPROVAL
 APPROVED PLANS MUST BE AT CONSTRUCTION SITE
 Nancy L. Freeman

THIS SURVEY AND PLAN CONFORM TO CLASS 1 STANDARD AS ADOPTED BY THE RHODE ISLAND BOARD OF REGISTRATION FOR PROFESSIONAL LAND SURVEYORS.
 Marc N. Nyberg
 REG. PROFESSIONAL LAND SURVEYOR



ENGINEERING BY:
 PAUL J. GADOURY, P.E.
 1 SOUTHBURY ROAD
 CUMBERLAND, RHODE ISLAND 02864



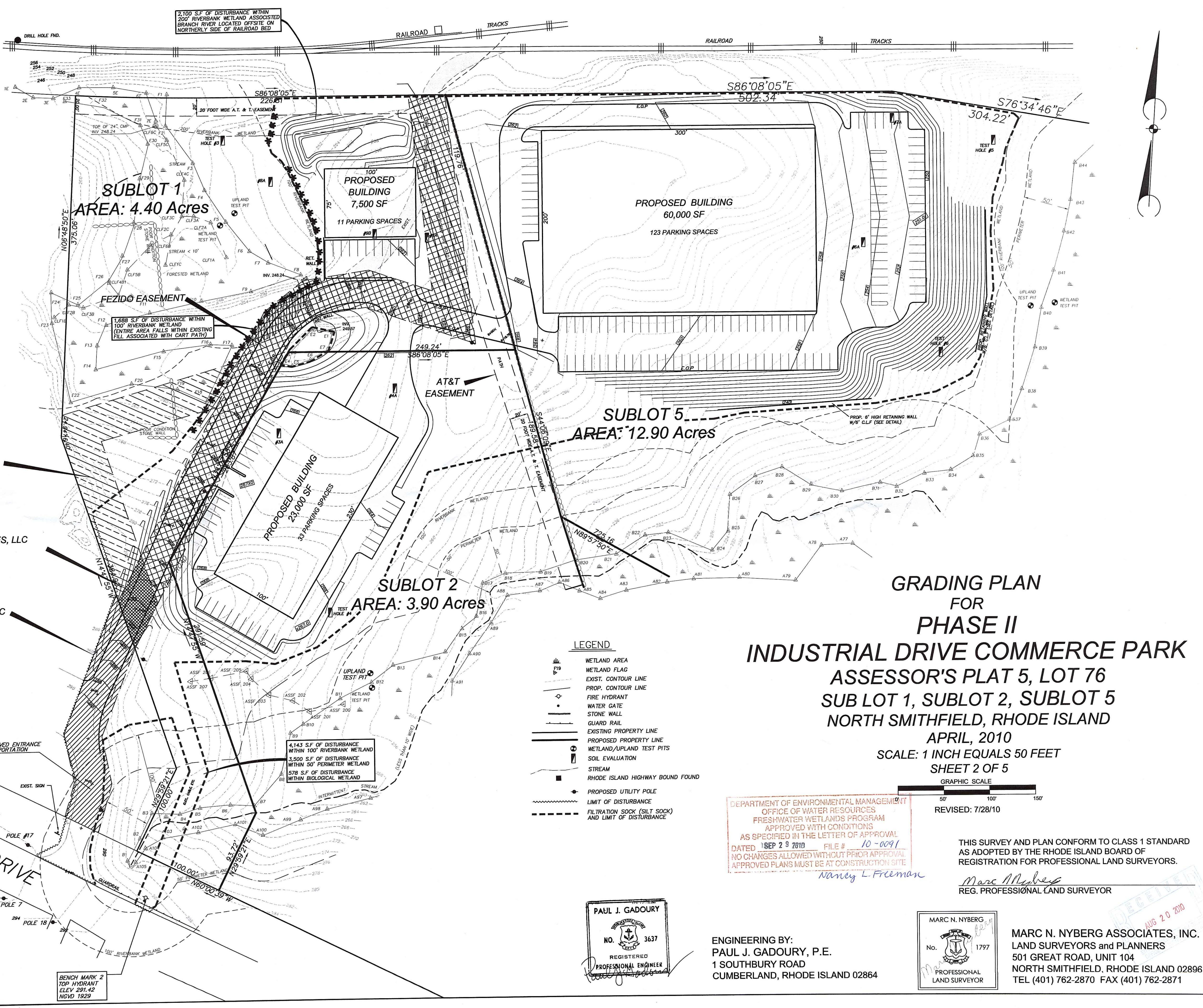
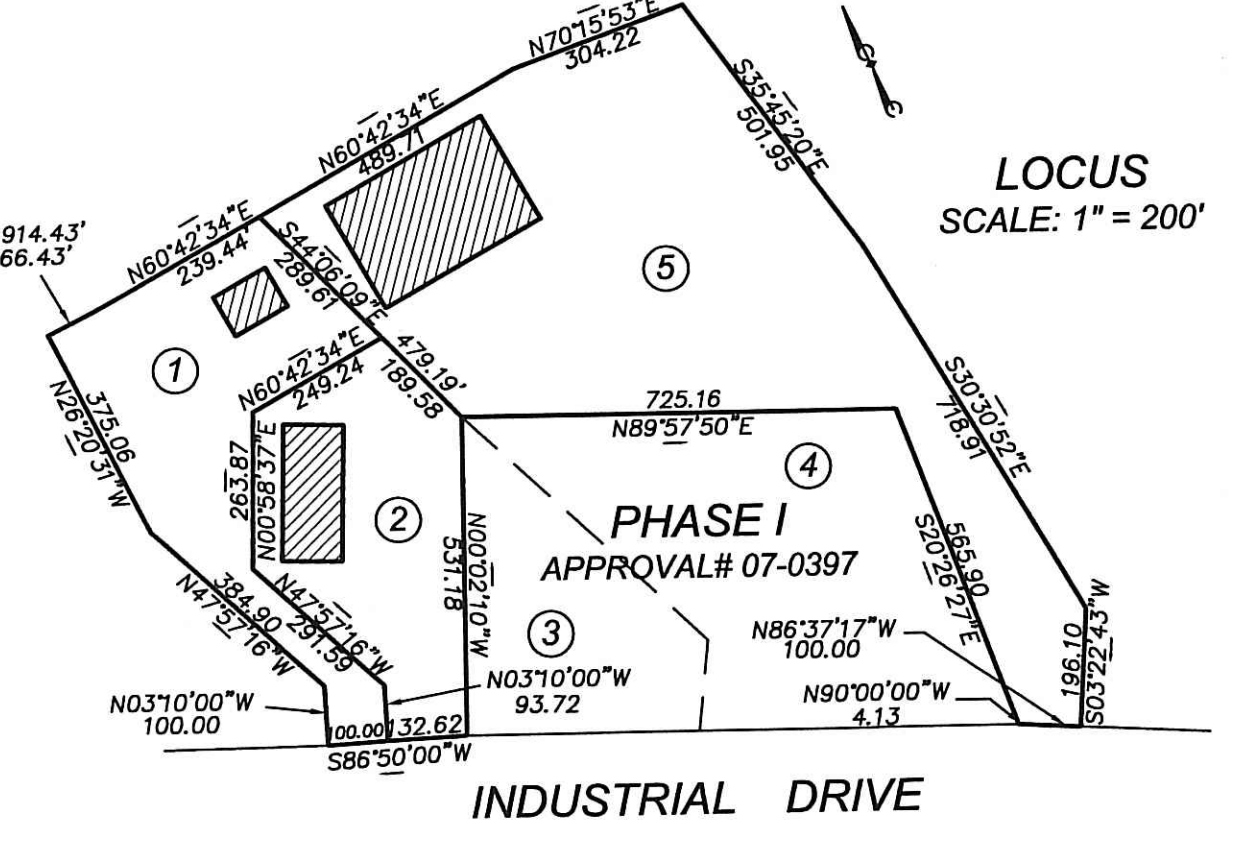
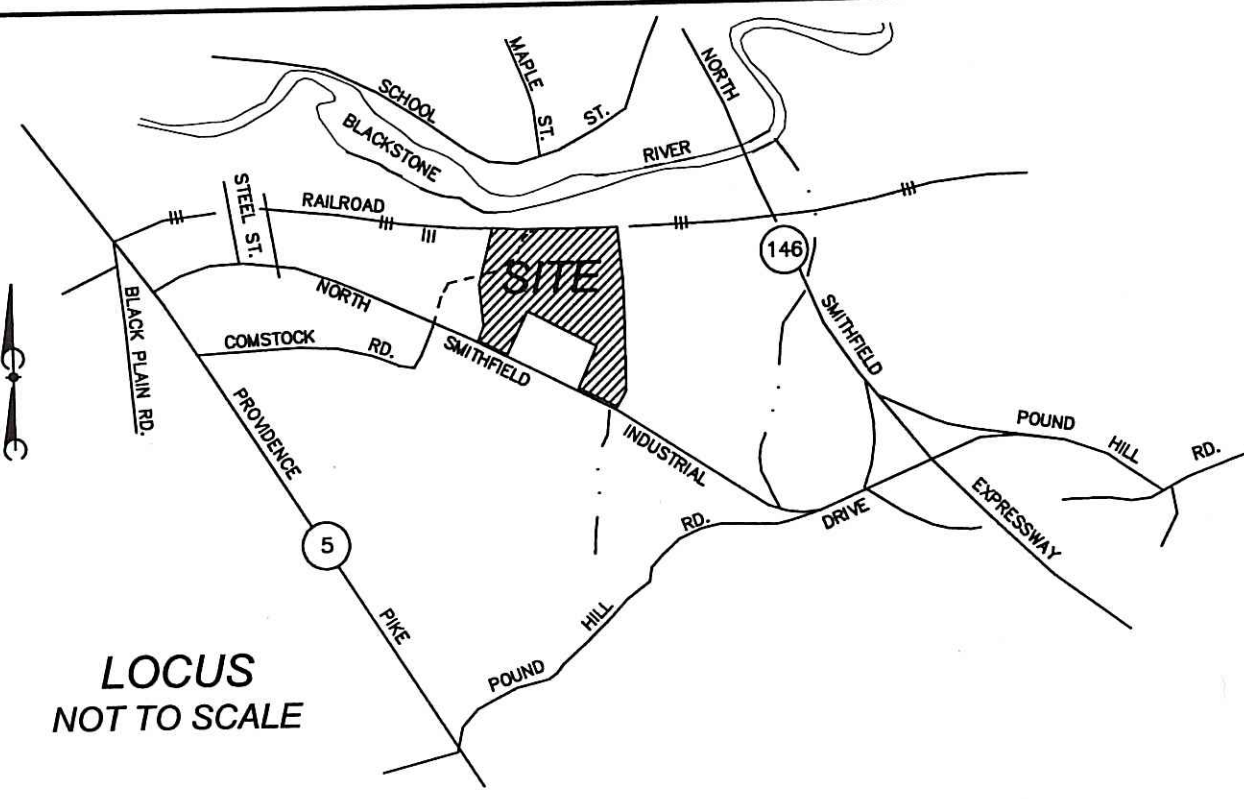
MARC N. NYBERG ASSOCIATES, INC.
 LAND SURVEYORS and PLANNERS
 501 GREAT ROAD, UNIT 104
 NORTH SMITHFIELD, RHODE ISLAND 02896
 TEL (401) 762-2870 FAX (401) 762-2871

INFILTRATION SYSTEM 1
 (72) CULTEC R-150 HD CHAMBERS CONFIGURED AS SHOWN
 H-20 LOAD RATED
 DOUBLE-WASHED STONE
 6" STONE UNDER CHAMBERS
 2" STONE AROUND PERIMETER
 BOTTOM OF STONE 253.00
 TOP OF STONE 255.54

INFILTRATION SYSTEM 2
 (35) CULTEC R-V8 CHAMBERS CONFIGURED AS SHOWN
 H-20 LOAD RATED
 DOUBLE-WASHED STONE
 6" STONE UNDER CHAMBERS
 6" STONE ABOVE CHAMBERS
 2" STONE AROUND PERIMETER
 BOTTOM OF STONE 257.00
 TOP OF STONE 260.83

INFILTRATION SYSTEM 3
 (212) CULTEC R-V8 CHAMBERS CONFIGURED AS SHOWN
 H-20 LOAD RATED
 DOUBLE-WASHED STONE
 6" STONE UNDER CHAMBERS
 6" STONE ABOVE CHAMBERS
 2" STONE AROUND PERIMETER
 BOTTOM OF STONE 245.55
 TOP OF STONE 247.33

AUG 20 2010



GRADING PLAN FOR PHASE II
INDUSTRIAL DRIVE COMMERCE PARK
 ASSESSOR'S PLAT 5, LOT 76
 SUB LOT 1, SUBLOT 2, SUBLOT 5
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 APRIL, 2010
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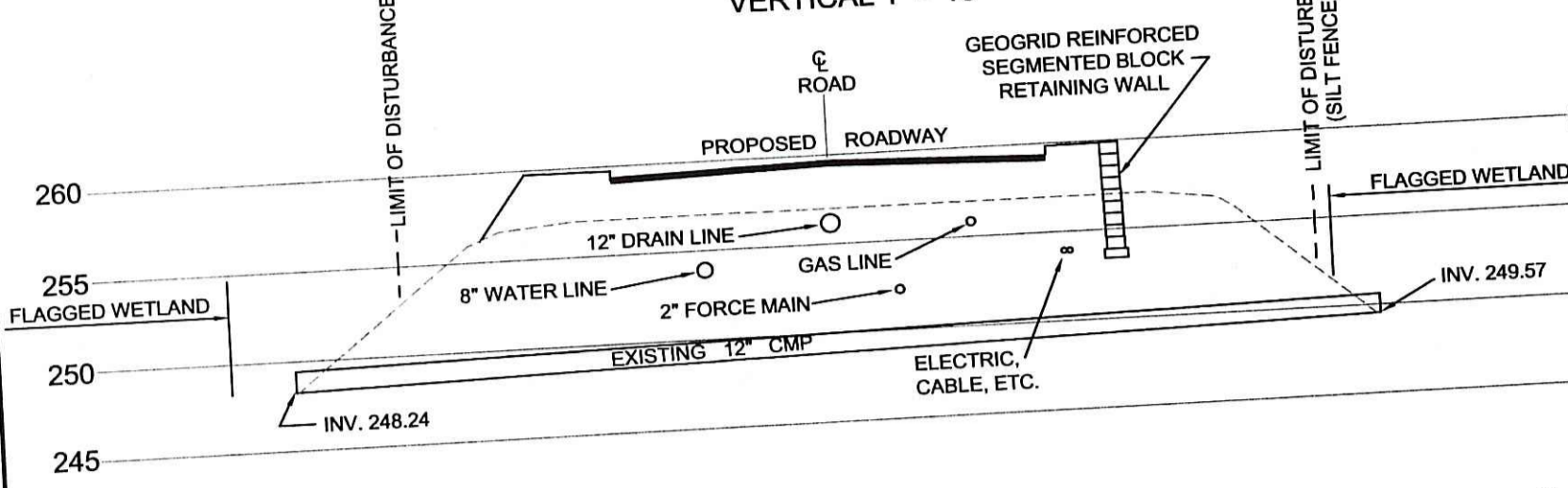
PAUL J. GADOURY
 NO. 3637
 REGISTERED PROFESSIONAL ENGINEER

ENGINEERING BY:
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 1 SOUTHURY ROAD
 CUMBERLAND, RHODE ISLAND 02864

MARC N. NYBERG
 No. 1797
 PROFESSIONAL LAND SURVEYOR

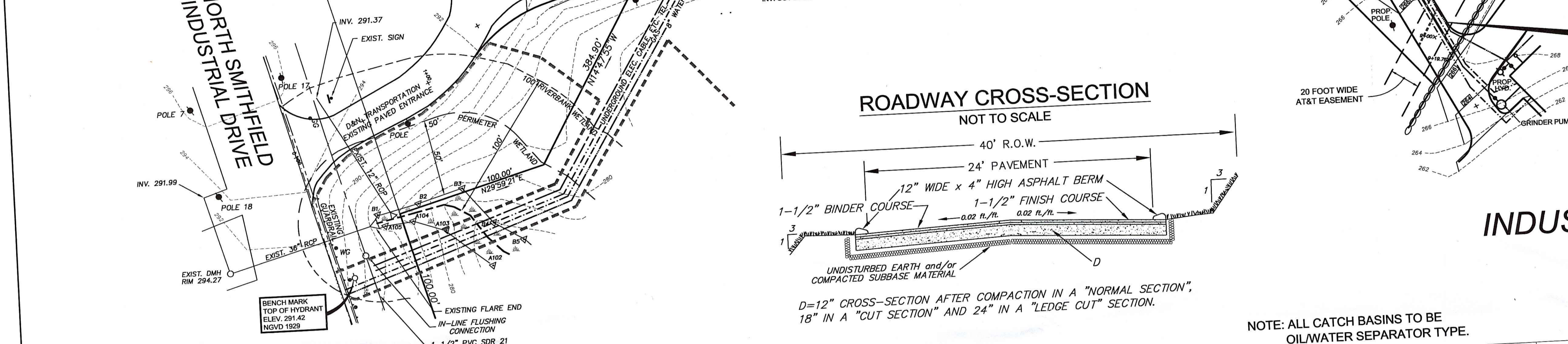
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ROADWAY CROSS-SECTION AT EXIST. CULVERT STA. 6+88
 SCALE: HORIZONTAL 1" = 10'
 VERTICAL 1" = 10'

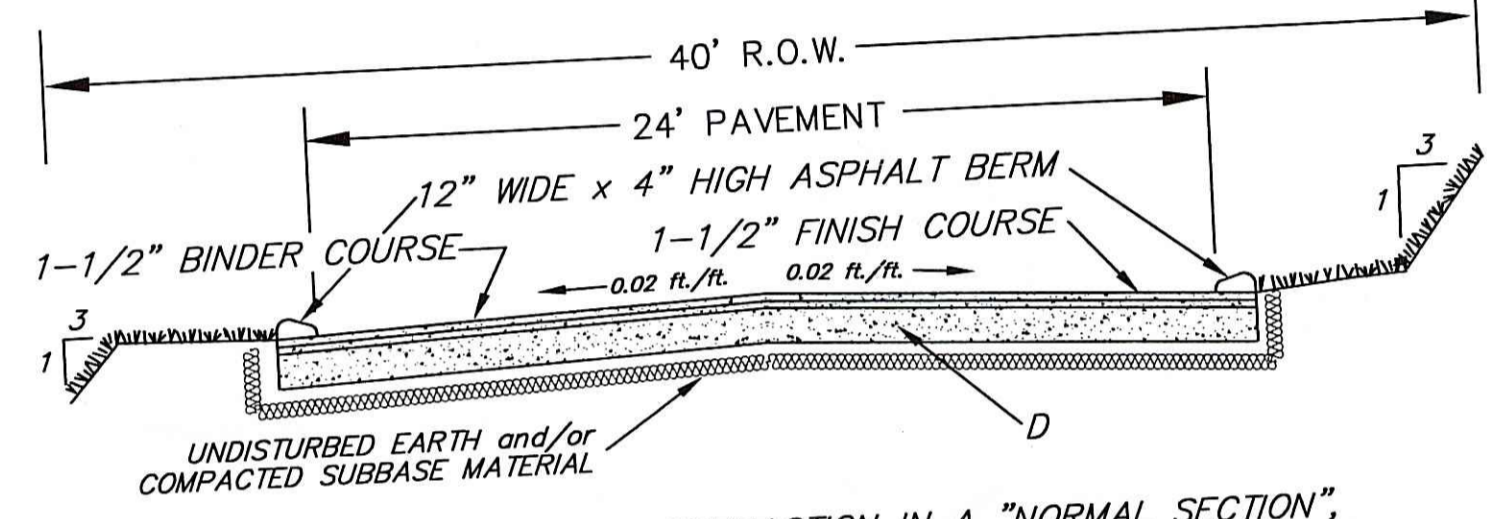


NORTH SMITHFIELD
INDUSTRIAL DRIVE

PLAN SCALE: 1" = 40'



ROADWAY CROSS-SECTION
 NOT TO SCALE



D=12" CROSS-SECTION AFTER COMPACTION IN A "NORMAL SECTION",
 18" IN A "CUT SECTION" AND 24" IN A "LEDGE CUT" SECTION.

NOTE: ALL CATCH BASINS TO BE OIL/WATER SEPARATOR TYPE.

LEGEND

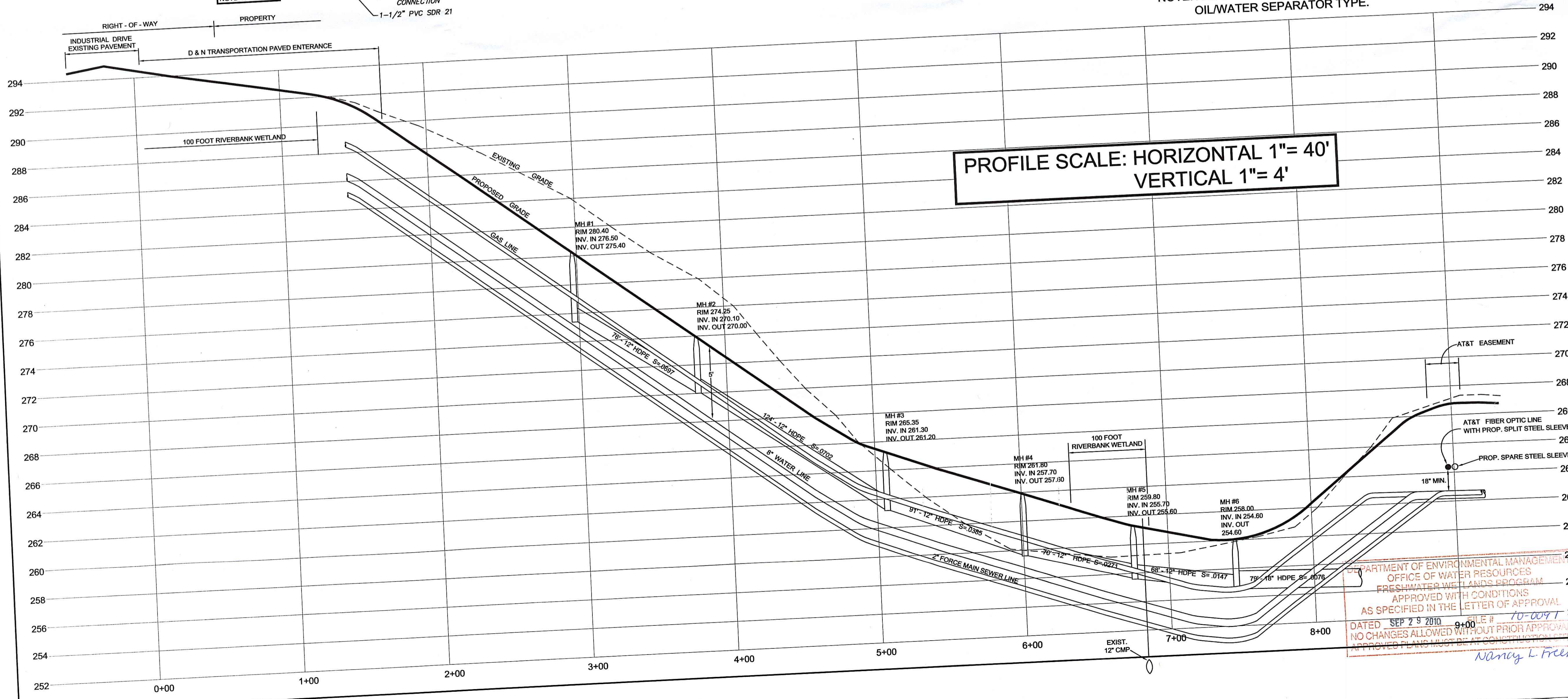
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- FILTRATION SOCK (SILT SOCK) AND LIMIT OF DISTURBANCE

A MINIMUM OF 18 INCHES OF SEPARATION BETWEEN THE PROPOSED UTILITIES AND THE ATT FIBER OPTIC LINE TO BE MAINTAINED. EXIST. ATT FIBER OPTIC LINE TO BE ENCASED IN A SPLIT STEEL SLEEVE. A SPARE STEEL SLEEVE IS TO BE INSTALLED NEXT TO THE EXIST. LINE FOR POSSIBLE FUTURE USE. ATT TO BE CONTACTED PRIOR TO THE START OF CONSTRUCTION. THIS IS A TRANSATLANTIC FIBER OPTIC TRUNK LINE AND EXTREME CAUTION IS REQUIRED.

PLAN and PROFILE FOR PHASE II
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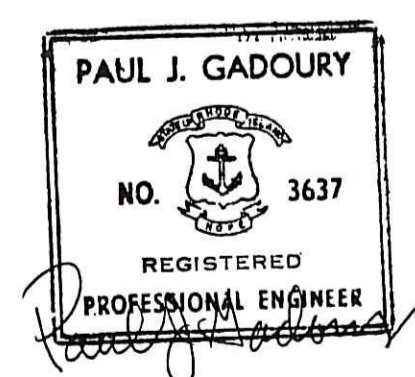
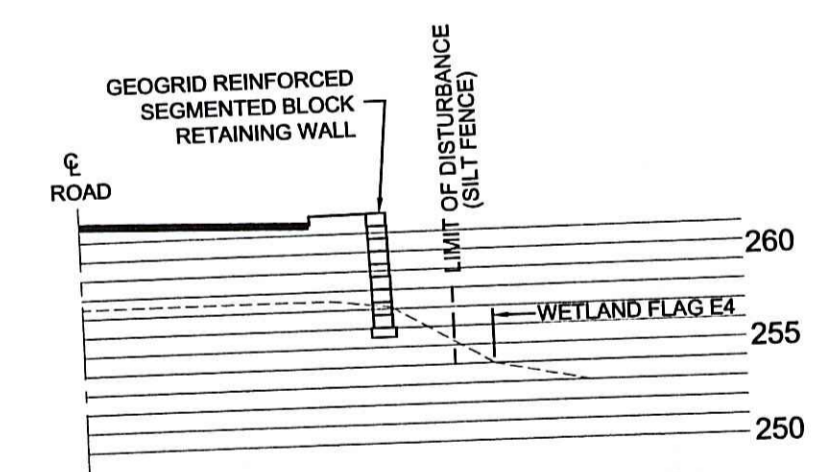
APRIL, 2010
 SHEET 3 OF 5
 REVISED: 7/28/10

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



ROADWAY CROSS-SECTION AT STA. 6+18

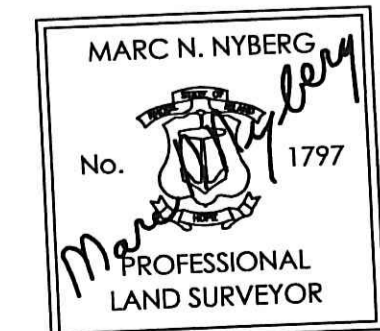
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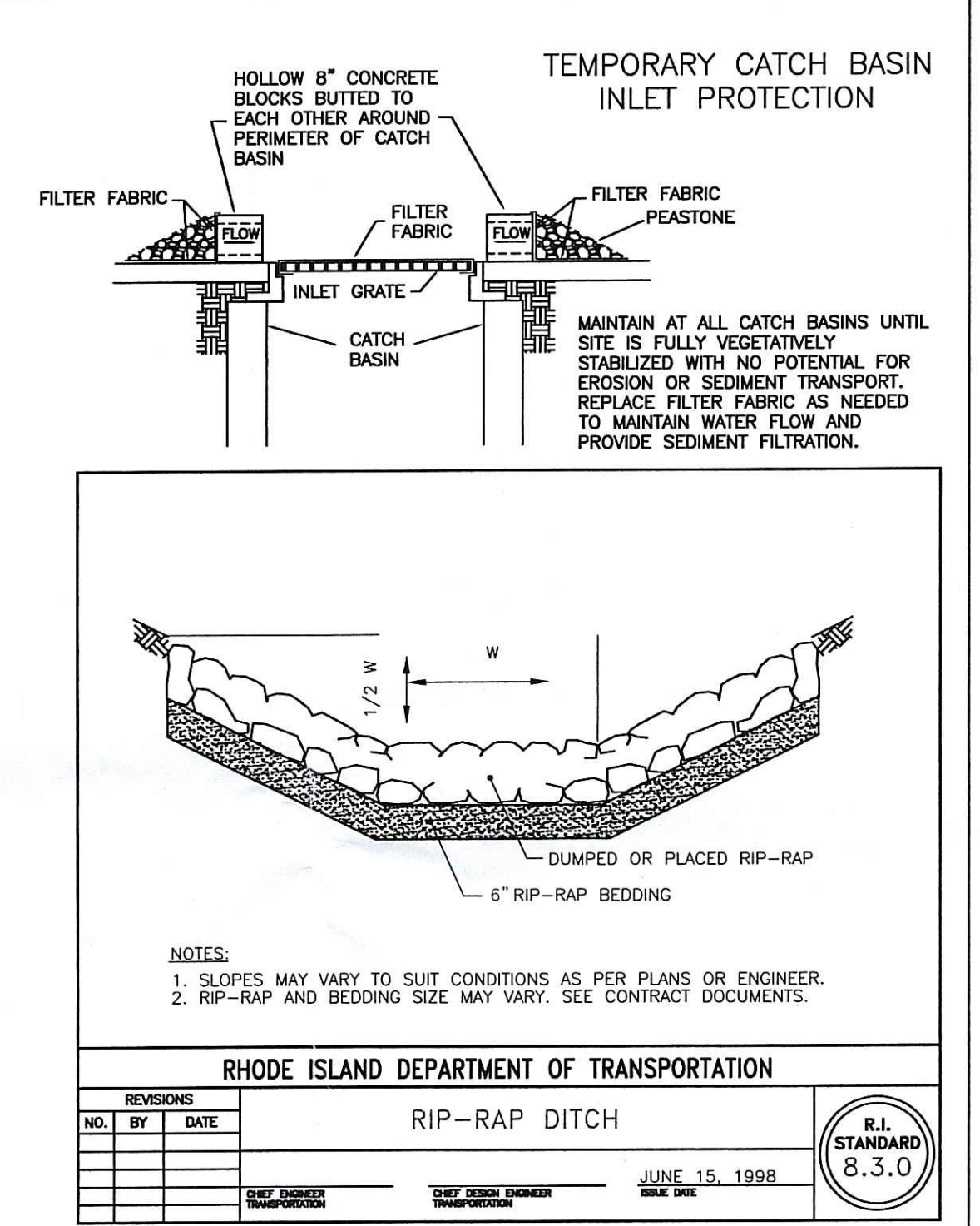
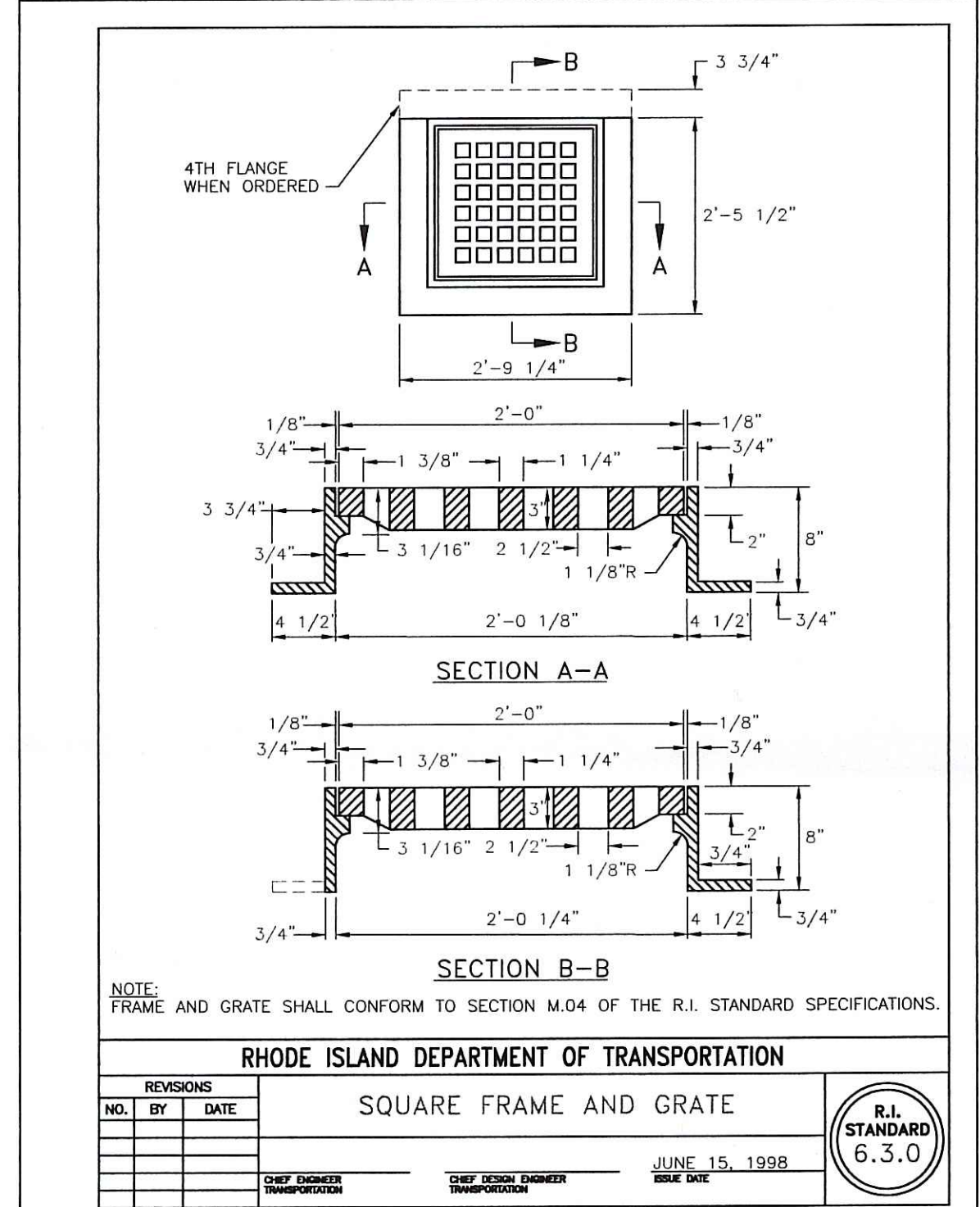
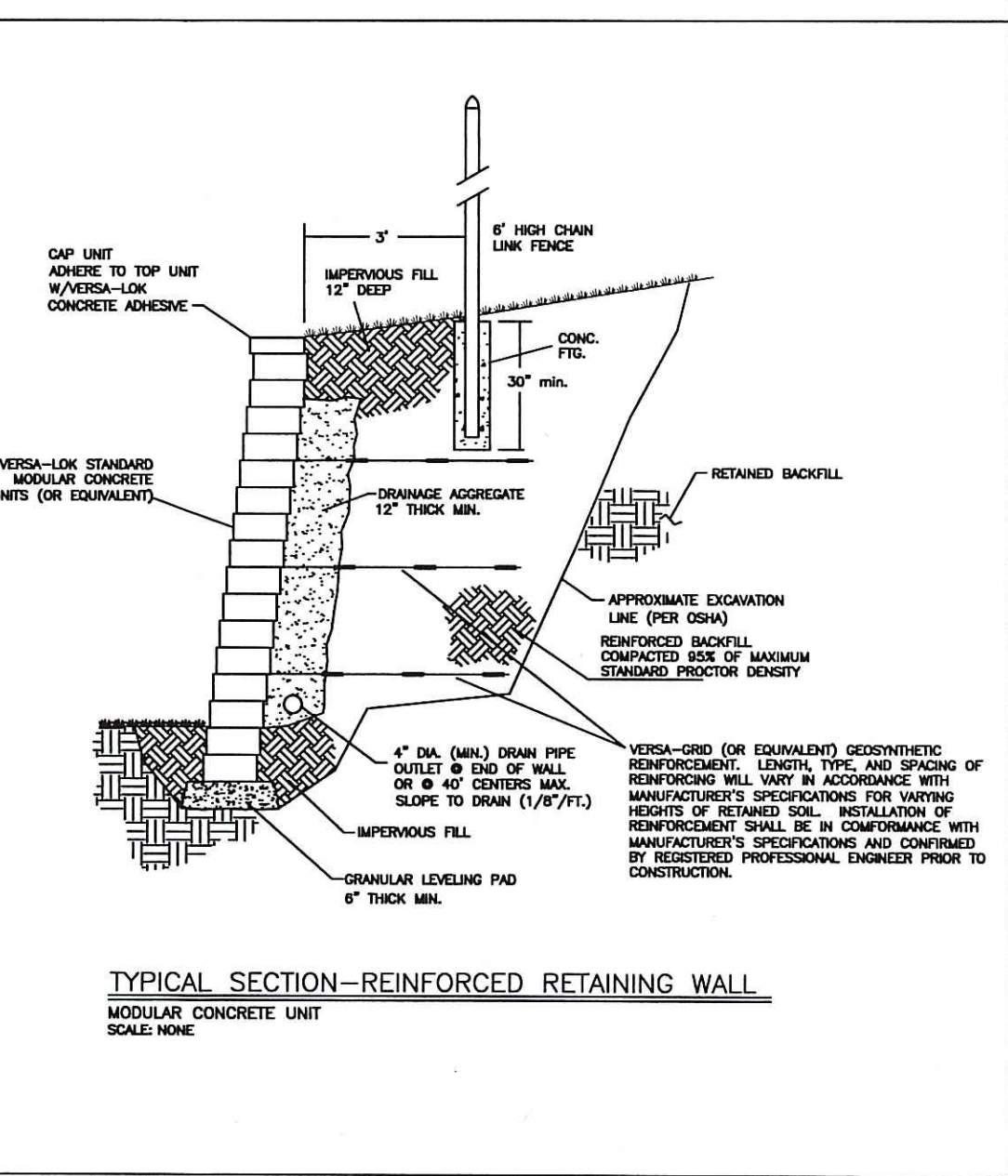
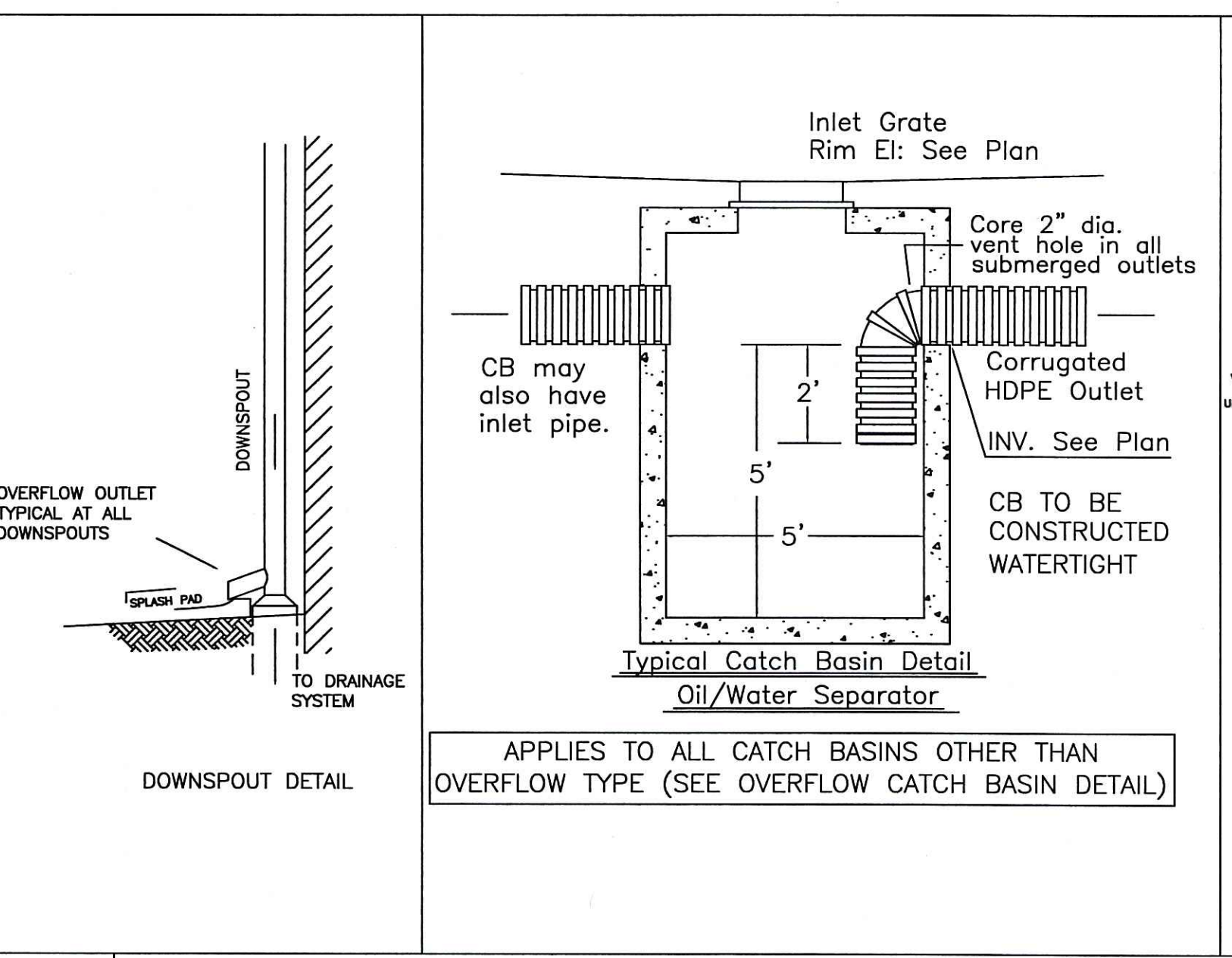
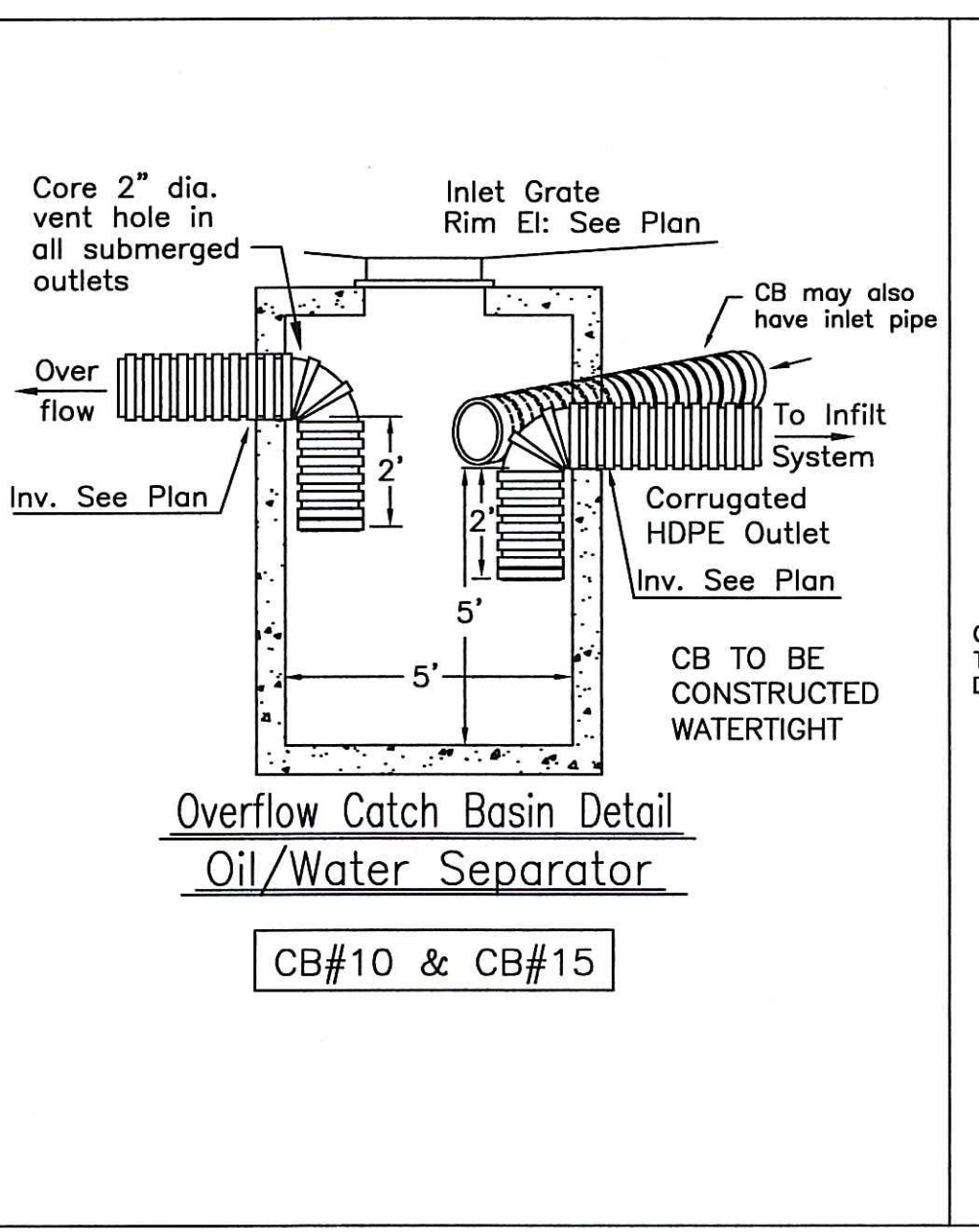
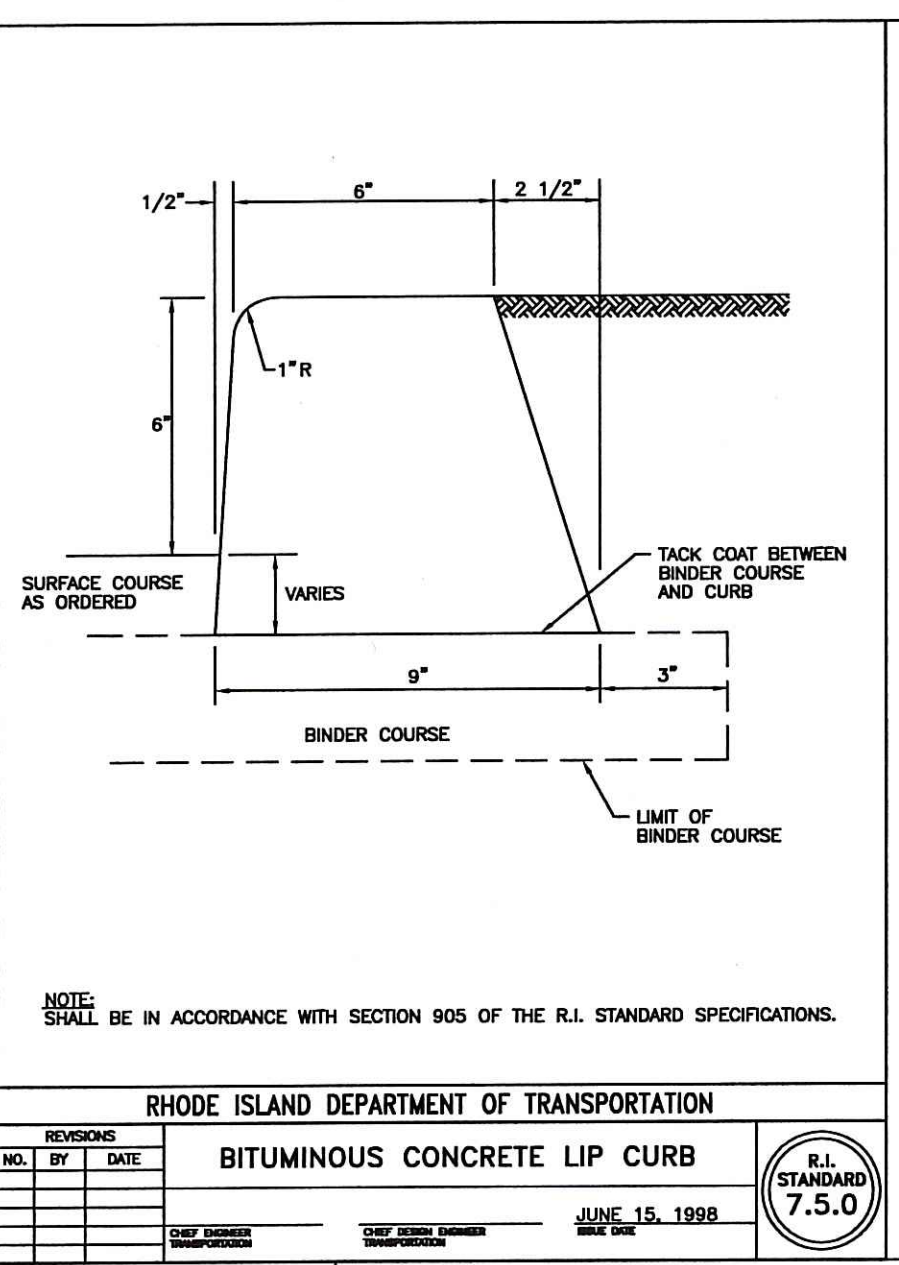
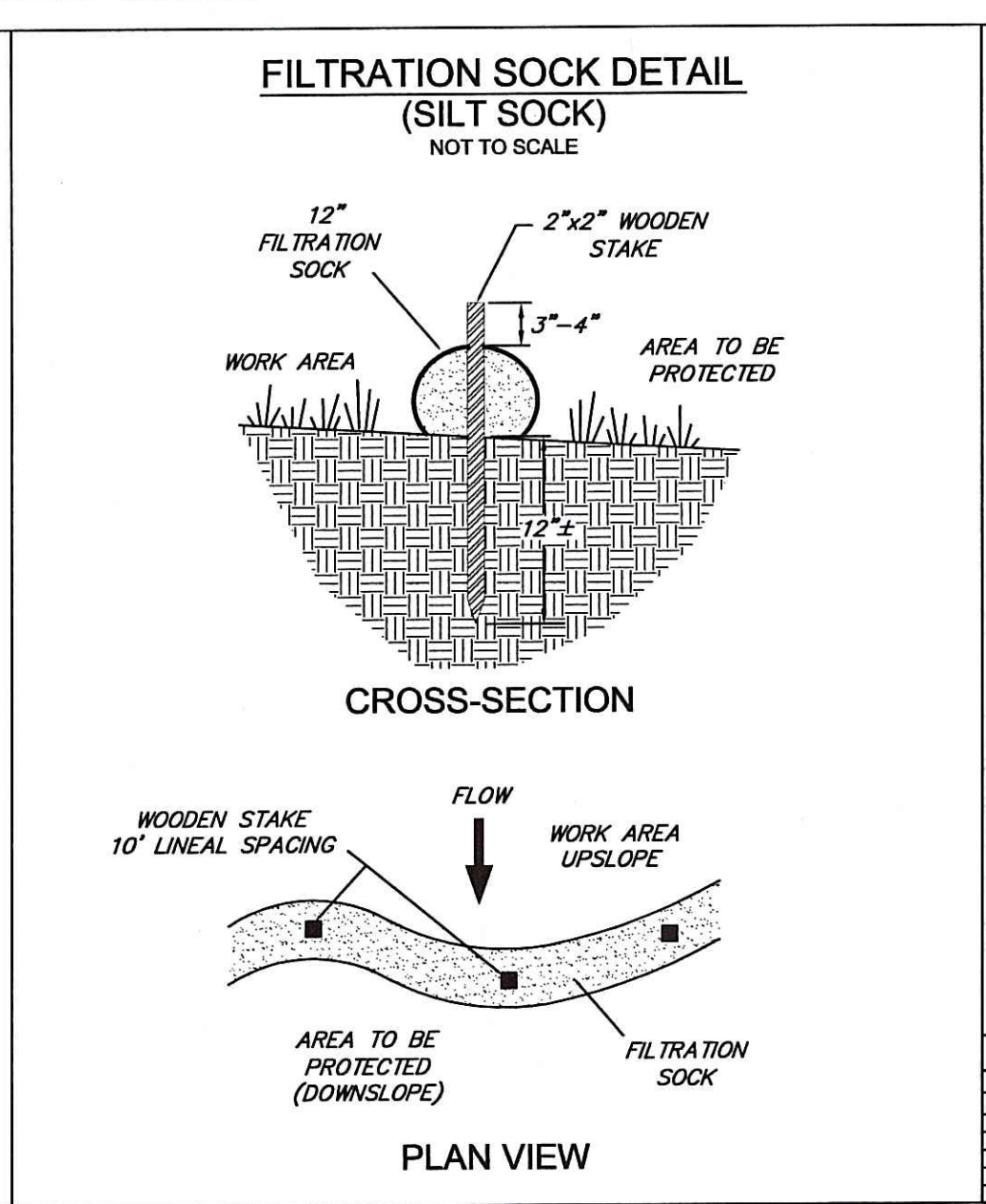
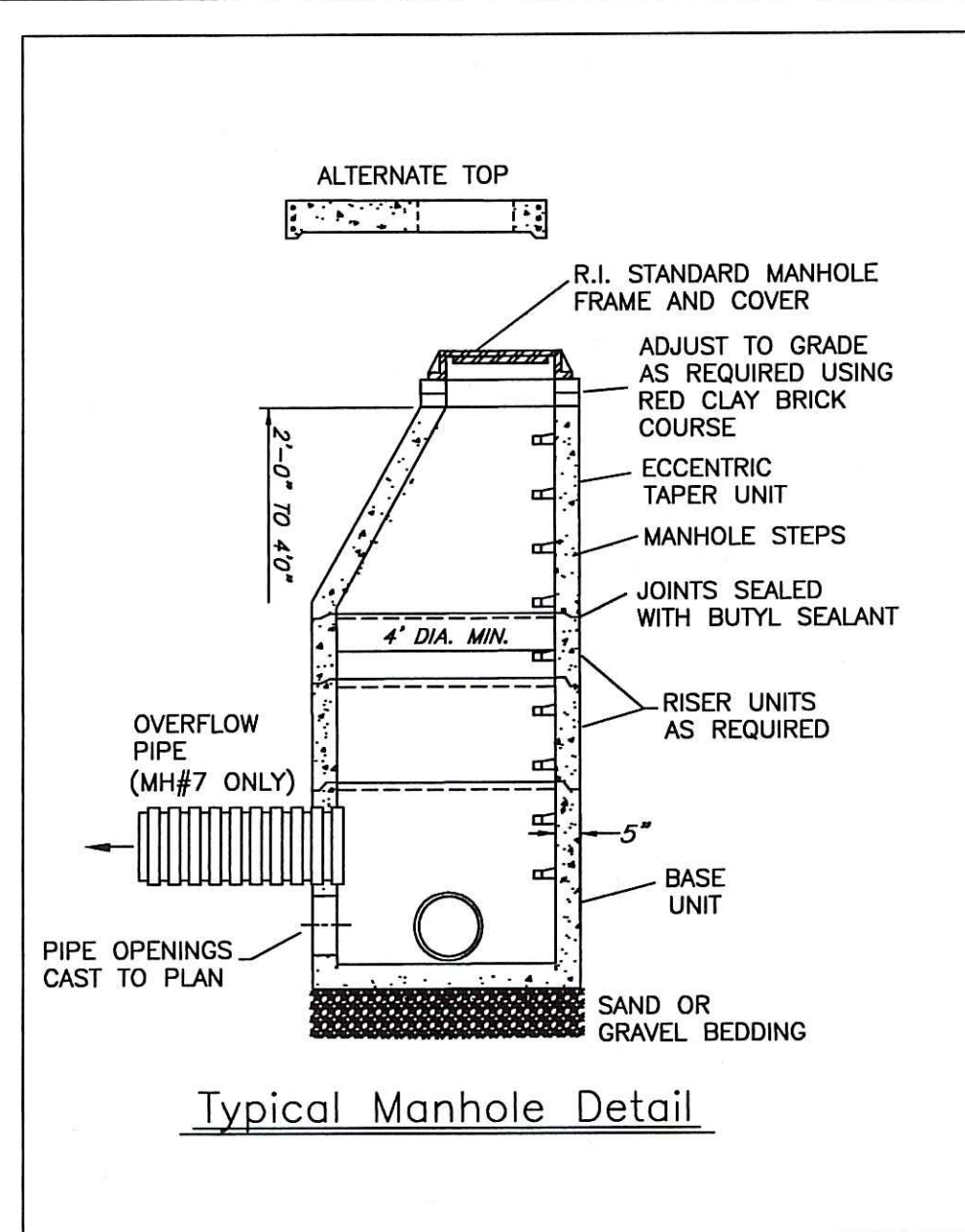
Marc N. Nyberg
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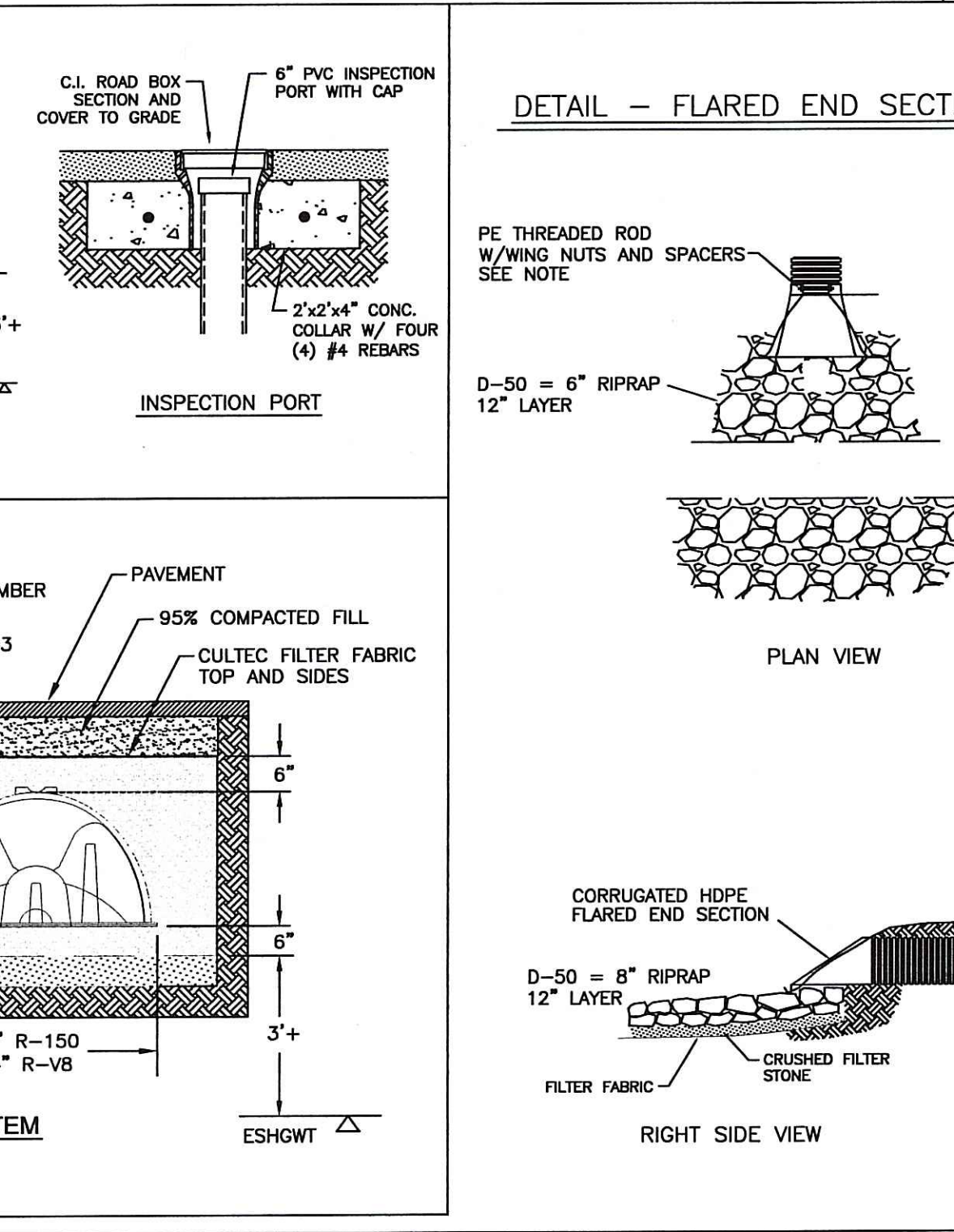
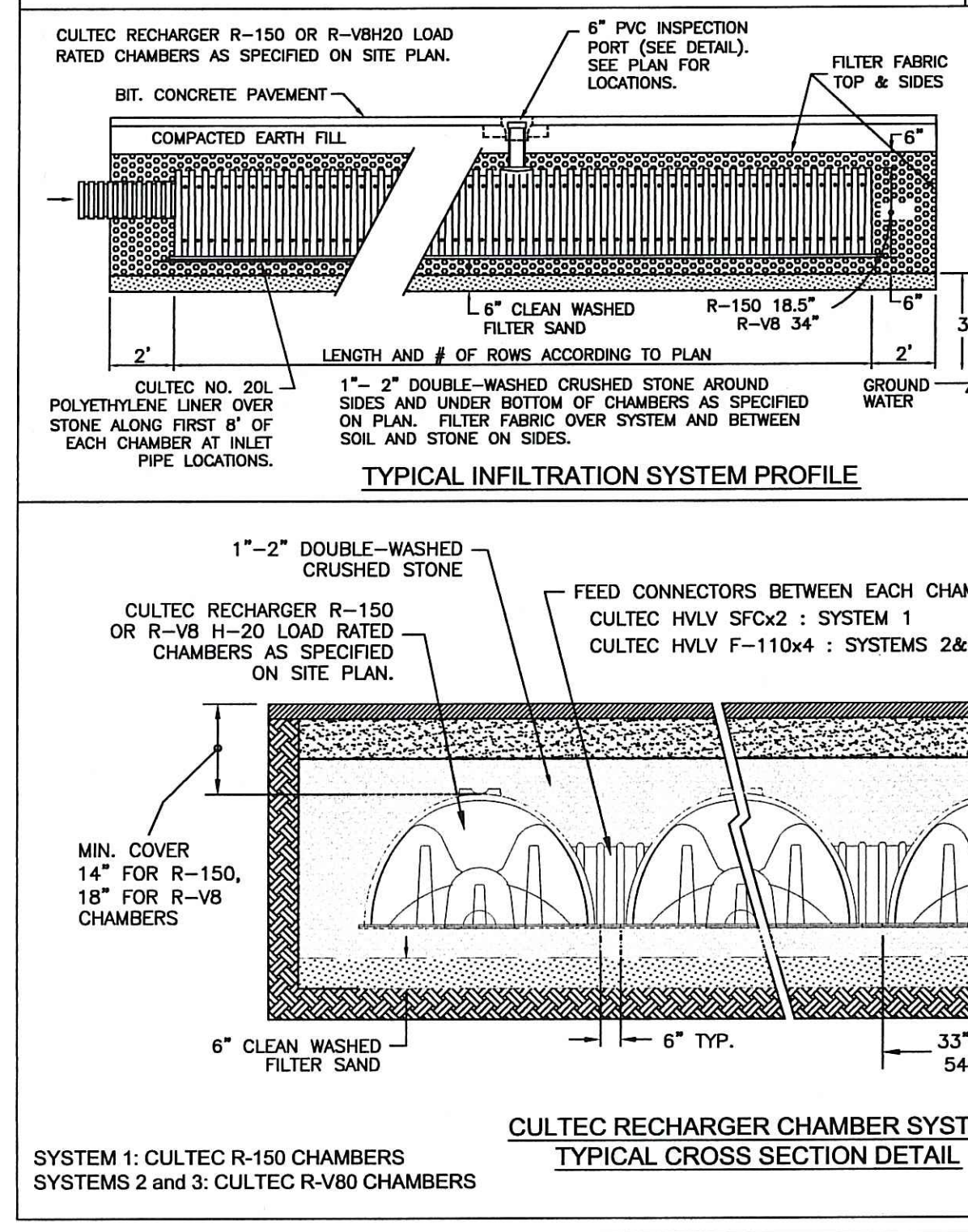
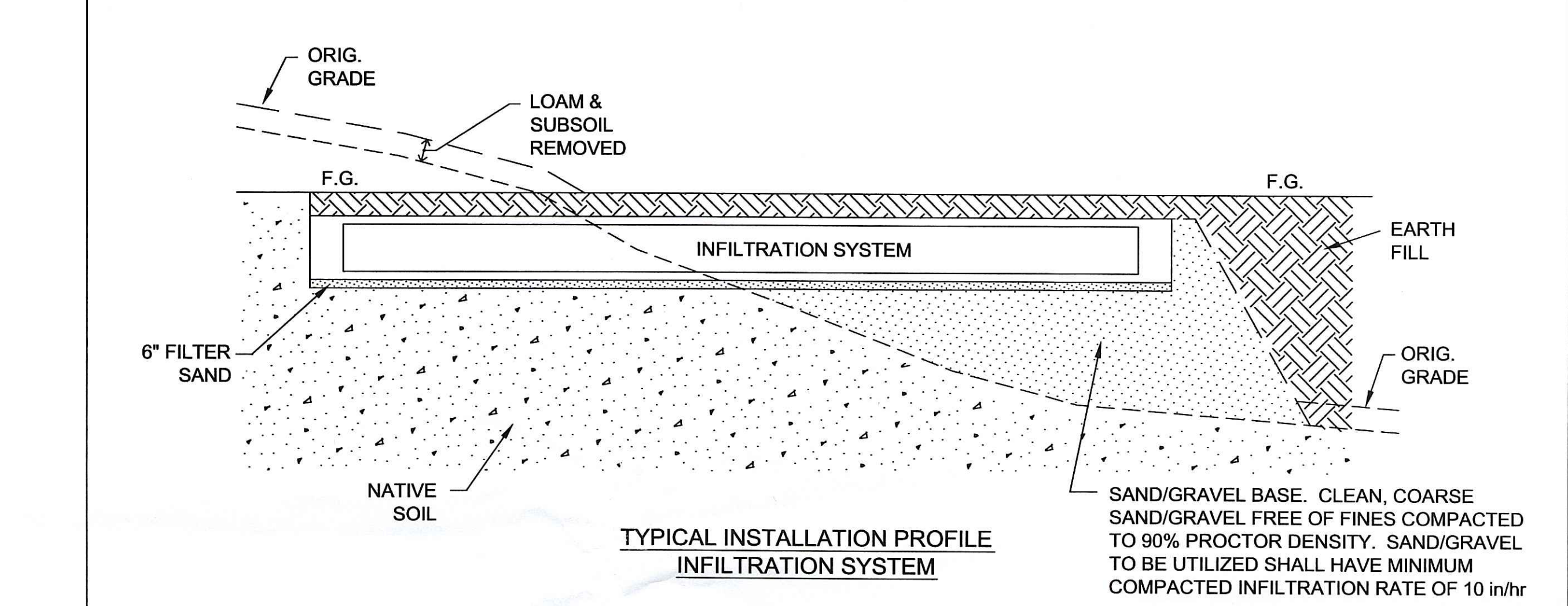
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Nancy L. Freeman



Infiltration System Maintenance & Monitoring	
Frequency	Action
Monthly in first year	<ul style="list-style-type: none"> Check filters, outlets, catch basins for clogging. Check basins for sediment. Remove debris. Check catch basins for sediment accumulation. Remove sediment if depth is 1 foot or greater. Dispose of waste in accordance with Local, State, and Federal Regulations. Shall be adjusted to more frequent inspection schedule if encountered sediment depths are 1\"/>
Spring and Fall	<ul style="list-style-type: none"> Check filters, outlets for clogging. Remove debris. Check catch basins for sediment accumulation. Remove sediment if depth is 1 foot or greater. Dispose of waste in accordance with Local, State, and Federal Regulations. Shall be adjusted to more frequent inspection schedule if encountered sediment depths are 1\"/>
Once per year	<ul style="list-style-type: none"> Check for depressions in areas over and surrounding the stormwater management systems. Consult engineer if depressions noted. Inspect system through inspection ports for evidence of internal erosion, oil, clogging, or standing water. Consult engineer if problems are noted. Confirm that no unauthorized modifications or connections have been made to the system. Observe infiltration system emergency overflow outlets during what may be judged as a period of high intensity rainfall within a significant storm event. Note presence of any stormwater discharge at overflow outlets and if occurring, measure and record depth of flow within the pipe at the point of outflow. Following a major storm event, inspect system through inspection ports for presence of water remaining within the system 24 hours after cessation of rainfall. If water is present, measure and record depth from ground surface and consult engineer.
After unusually severe storm	<ul style="list-style-type: none"> Inspect full site area for signs of erosion or other potential sources of sediment transport. Make repairs as needed. Install and maintain sediment controls until areas stabilized. Check filters, outlets for clogging. Remove debris. Check catch basins for sediment accumulation. Remove sediment if depth is 1 foot or greater. Dispose of waste in accordance with Local, State, and Federal Regulations. Inspect system through inspection ports for presence of water remaining within the system 24 hours after cessation of rainfall. If water is present, measure and record depth from ground surface and consult engineer.
As demand	<ul style="list-style-type: none"> Implement containment measures immediately following any spills or other events that could potentially lead to liquids, granular materials, or sediments in grating or being transported to stormwater in etc. Stop stormwater in etc as required. Perform thorough cleanup of area and to parking stormwater system back in full service. Should changes in system performance appear to be taking place over time as noted from the inspection and recorded measurements on lined slopes, consult engineer to assess the observed data and evaluate the performance of the system. Degradation of system performance sufficient to render it no longer effective for preventing sediment impacts will necessitate repair or maintenance. Activity or any consent of attempts to remove accumulated sediments or could range to replacement of the system or portions thereof. Access to the system for other of those activities will require surface excavation down to the system to the extent as necessary for performing work required.



Long Term Maintenance Responsibility for Stormwater System

Owner of the property is responsible for conducting continual long term maintenance of the on-site drainage system. Frequent and thorough cleaning of catch basins is critical for maintaining infiltration system performance. Ongoing program of regular inspections and cleaning shall be maintained. Sediment removal is to be performed on a frequent basis to maintain ample sump storage capacity to promote solids settling and minimize potential for solids resuspension.

- Conduct inspections initially on once per month basis. Remove sediment so as to not allow sediment accumulation depth in basin to exceed 1 foot.
- Increase or reduce frequency of inspection and cleaning as required to allow no more than 1 foot sediment accumulation, but in no case shall inspections be conducted less frequently than every six months.
- Clean out sediment, oil and grease, and floatables using catch basin cleaning equipment (vacuum pumps). Manual removal of pollutants may be necessary.
- Properly dispose of oils, solids, sediments and disposables.
- In the event of any activities with potential for sediment transport, immediately install catch basin filter protection in accordance with detail on plan. In the event of any sedimentation occurrence, immediately remove accumulated sediment from affected catch basins and install protective filters as necessary.
- Monitor performance of infiltration systems as outlined in infiltration system monitoring schedule. Particularly monitor systems following extreme rainfall events.
- Inspect detention basin outlet pipe on monthly basis. Clean debris as necessary to keep inlet and outlet clear. Maintain slopes and top berm free of bushes and woody growths.
- The owner/manager of the project shall be responsible for submitting an annual report to the town, in format, as shall be required and approved by the town, documenting and certifying that the drainage system has been maintained in accordance with the requirements as set forth on the approved plans for the project.

EROSION CONTROL & SOIL STABILIZATION PROGRAM

- DESIGNED SLOPES SHALL NOT BE UNATTENDED OR EXPOSED FOR EXCESSIVE PERIODS OF TIME SUCH AS THE INACTIVE WINTER SEASON.
- THE SEED MIX SHALL BE INOCULATED WITHIN 24 HOURS, BEFORE MIXING AND PLANTING, WITH APPROPRIATE INOCULUM FOR EACH VARIETY.
- THE DESIGN MIX SHALL BE COMPRISED OF THE FOLLOWING MIXTURE: 2 BY VGT. SEEDING DATES

RED FESCUE	5	APRIL 1 - JUNE 15
COLUMBIA BENTGRASS	5 <td>AUG. 15 - OCT. 15</td>	AUG. 15 - OCT. 15
PERENNIAL RYEGRASS	5 <td></td>	
BIRDSFOOT TREFOIL	5 <td></td>	
TOTAL 100# PER ACRE		

- BOTTOM AND INTERIOR SLOPES OF DETENTION BASINS AND GRASSED SWALES SHALL BE SEED AS FOLLOWS:

MIXTURE	SEEDING DATES
CREeping RED FESCUE	20 APRIL 1 - JUNE 15
TALL FESCUE	20 AUG. 15 - OCT. 15
TOTAL 40 LBS PER ACRE	
- TEMPORARY TREATMENTS SHALL CONSIST OF A MAT, STRAW OR FIBER MULCH OR PROTECTIVE COVERS SUCH AS A MAT OR A FIBER LINING (AUTE, BURLAP, FIBERGLASS NETTING, EXCELLESTIR BLANKETS) THEY SHALL BE INCORPORATED INTO THE WORK AS WARRANTED OR AS ORDERED BY THE ENGINEER.
- MAT OR STRAW APPLICATIONS SHOULD BE IN THE AMOUNT OF 3000 - 4000 LBS. PER ACRE.
- STABILIZATION OF ONE FORM OR ANOTHER AS DESCRIBED ABOVE SHALL BE ACHIEVED IMMEDIATELY AFTER FINAL GRADING.
- REFERENCE THE SEDIMENTATION CONTROL PROGRAM AND THE ORDER OF PROCEDURE FOR PROPER COORDINATION.

MAINTENANCE OF CONTROLS

- ALL DISTURBED AREAS SUBJECT TO EROSION TENDENCIES WHETHER THEY ARE NEWLY FILLED OR EXCAVATED, SHALL RECEIVE SUITABLE SLOPE PROTECTION.
- EXTREME CARE SHALL BE EXERCISED SO AS TO PREVENT ANY UNSUITABLE MATERIAL FROM ENTERING THE WETLANDS.
- CONTRACTOR SHALL BE RESPONSIBLE FOR INSTALLING AND MAINTAINING EROSION AND SEDIMENT CONTROL STRUCTURES THROUGHOUT THE DURATION OF THE PROJECT. CONTRACTOR SHALL INSPECT CONTROLS ON A REGULAR BASIS AND AFTER EVERY RAINFALL EVENT. CONTROLS SHALL BE REPAIRED OR REPLACED AS NEEDED.
- DURING CONSTRUCTION, THE CONTRACTOR SHALL BE RESPONSIBLE FOR MAINTAINING DRAINAGE AND RUNOFF FLOW DURING STORMS IN SUCH MANNER TO PREVENT SOIL EROSION AND SEDIMENTATION.
- REFERENCE THE RHODE ISLAND EROSION AND SEDIMENT CONTROL HANDBOOK PREPARED BY THE U.S. DEPT. OF AGRICULTURE, SOIL CONSERVATION SERVICE 1980, AS A GUIDE.

ORDER OF PROCEDURE

- ALL EROSION CONTROL DEVICES SHALL SET IN PLACE PRIOR TO THE START OF ANY CONSTRUCTION.
- ALL EROSION AND SEDIMENTATION CONTROL STRUCTURES SHALL BE PERIODICALLY CLEANED AND MAINTAINED AS PER THE RESPECTIVE PROGRAMS DURING THE CONSTRUCTION.
- IF WORK PROGRESS IS INTERRUPTED AT ANY TIME, REFERENCE EROSION & SEDIMENTATION PROGRAMS FOR TEMPORARY CONTROL.
- SPECIFIED PLANTINGS ARE TO TAKE PLACE IN EARLY SPRING (APRIL 1 THRU MAY 30) OR EARLY FALL (SEPTEMBER 1 THRU 30) AND ARE TO BE MAINTAINED FOR A PERIOD OF ONE GROWING SEASON AND SHALL BE REPLACED IF NECESSARY.

IMPORTANT!!!

INFILTRATION SYSTEMS SHALL NOT BE PUT INTO OPERATION UNTIL THE SITE HAS BEEN FULLY STABILIZED VEGETATIVELY AND THERE IS NO POTENTIAL FOR ANY SEDIMENT TRANSPORT TO THE CATCH BASINS.

DETAIL SHEET FOR PHASE II

INDUSTRIAL DRIVE COMMERCE PARK

ASSESSOR'S PLAT 5, LOT 76
SUB LOT 1, SUBLOT 2, SUBLOT 5
NORTH SMITHFIELD, RHODE ISLAND

APRIL, 2010
SHEET 4 OF 5

REVISED: 7/28/10

PAUL J. GADOURY
NO. 3637
REGISTERED PROFESSIONAL ENGINEER

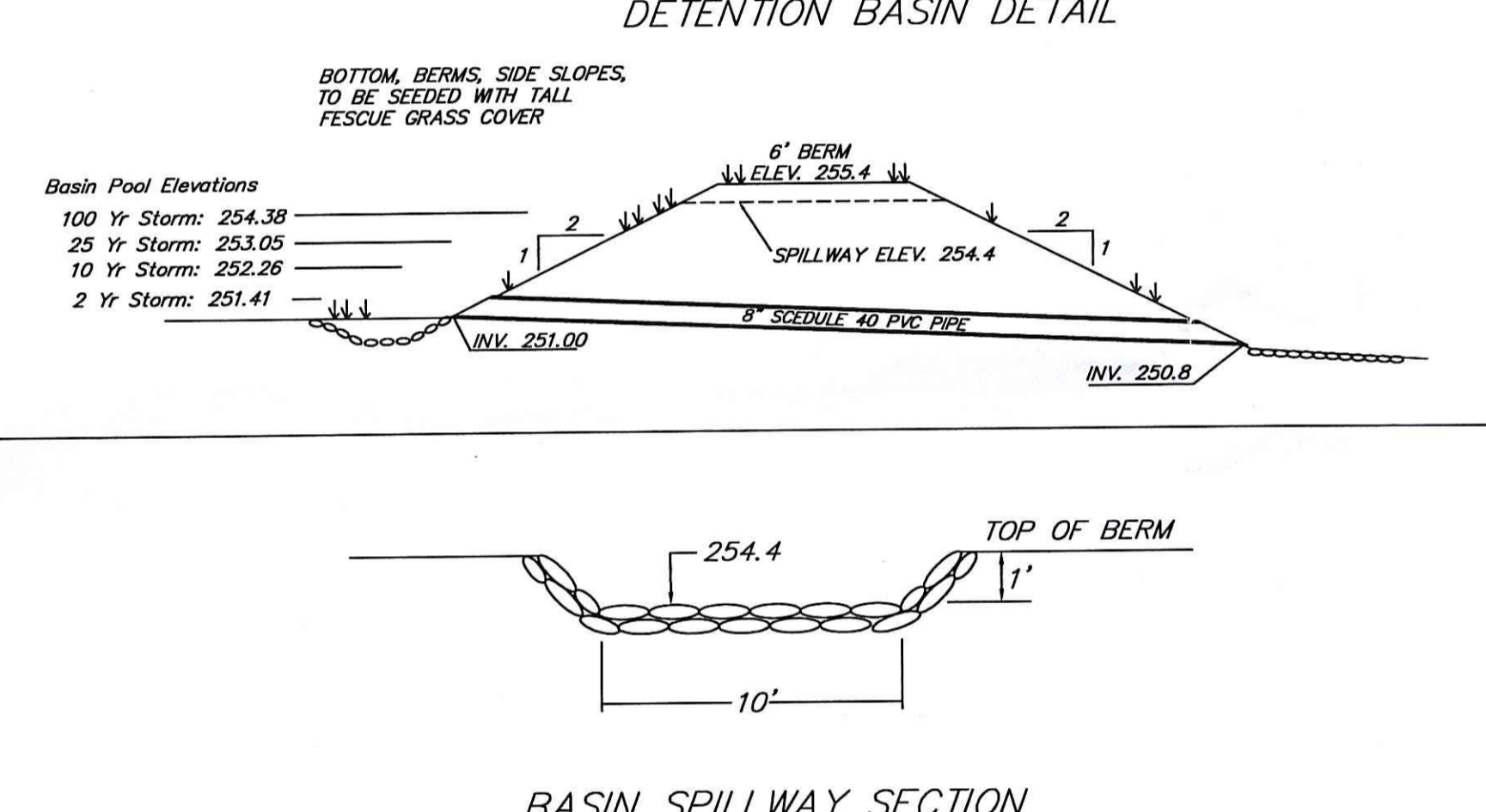
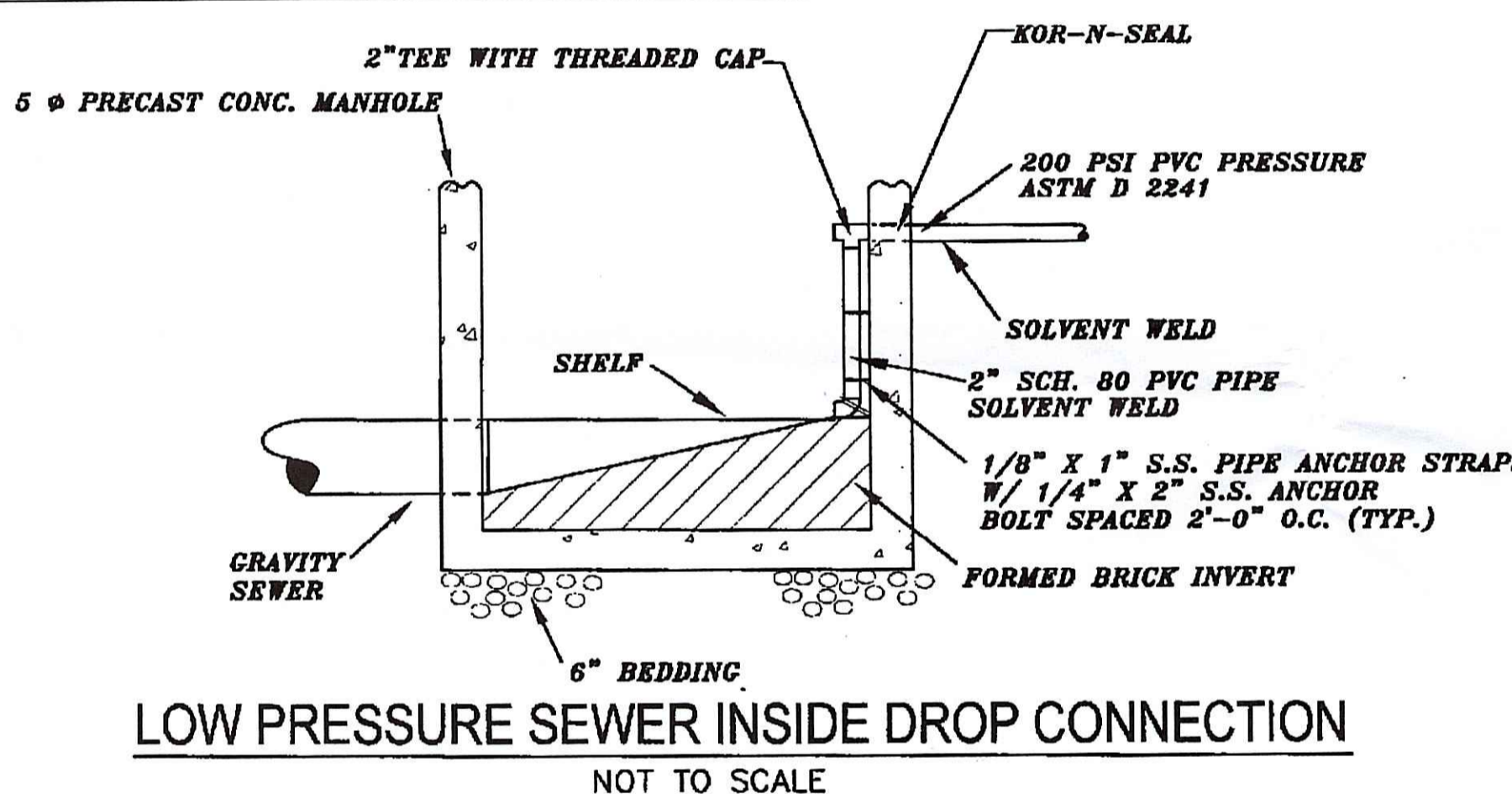
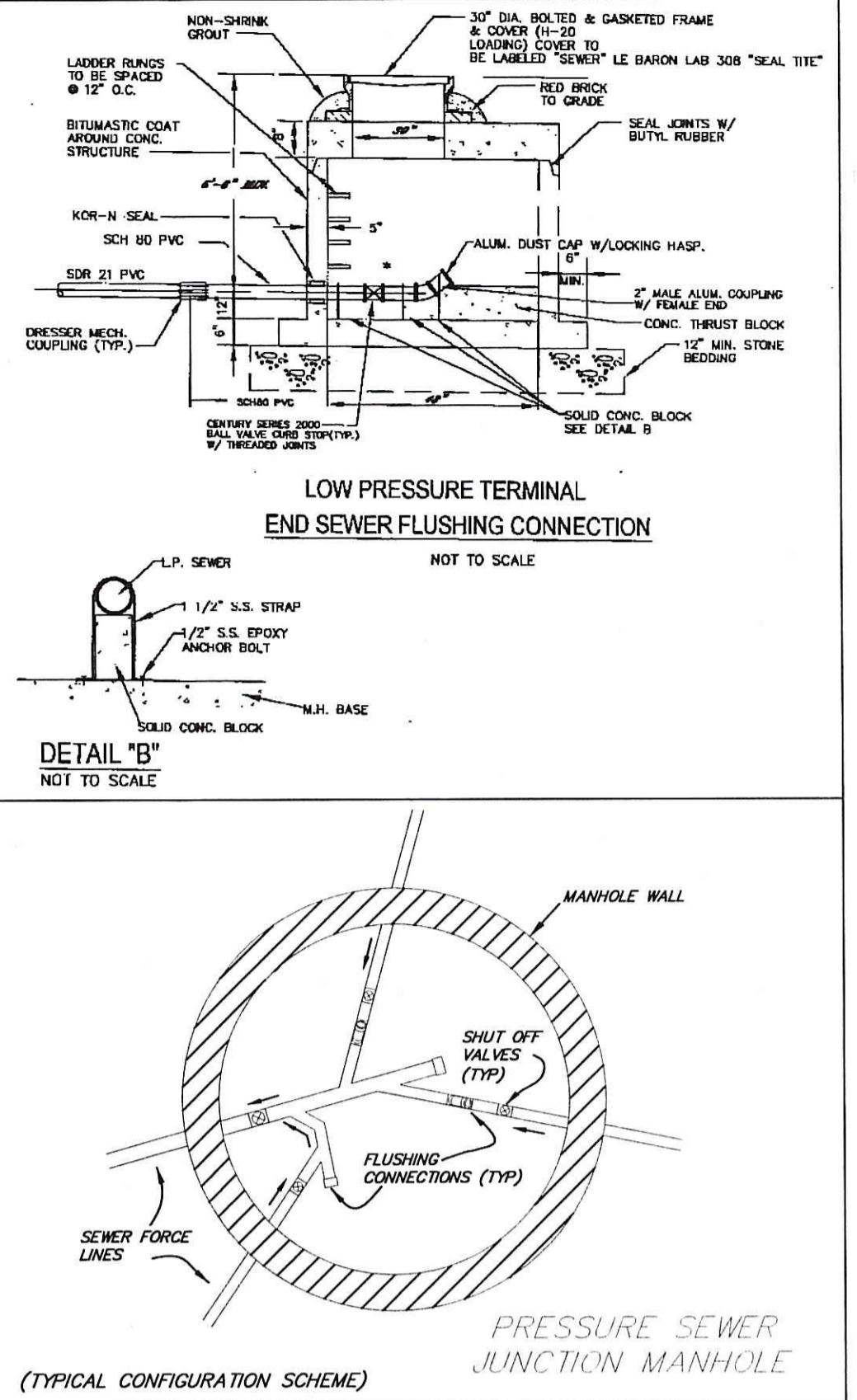
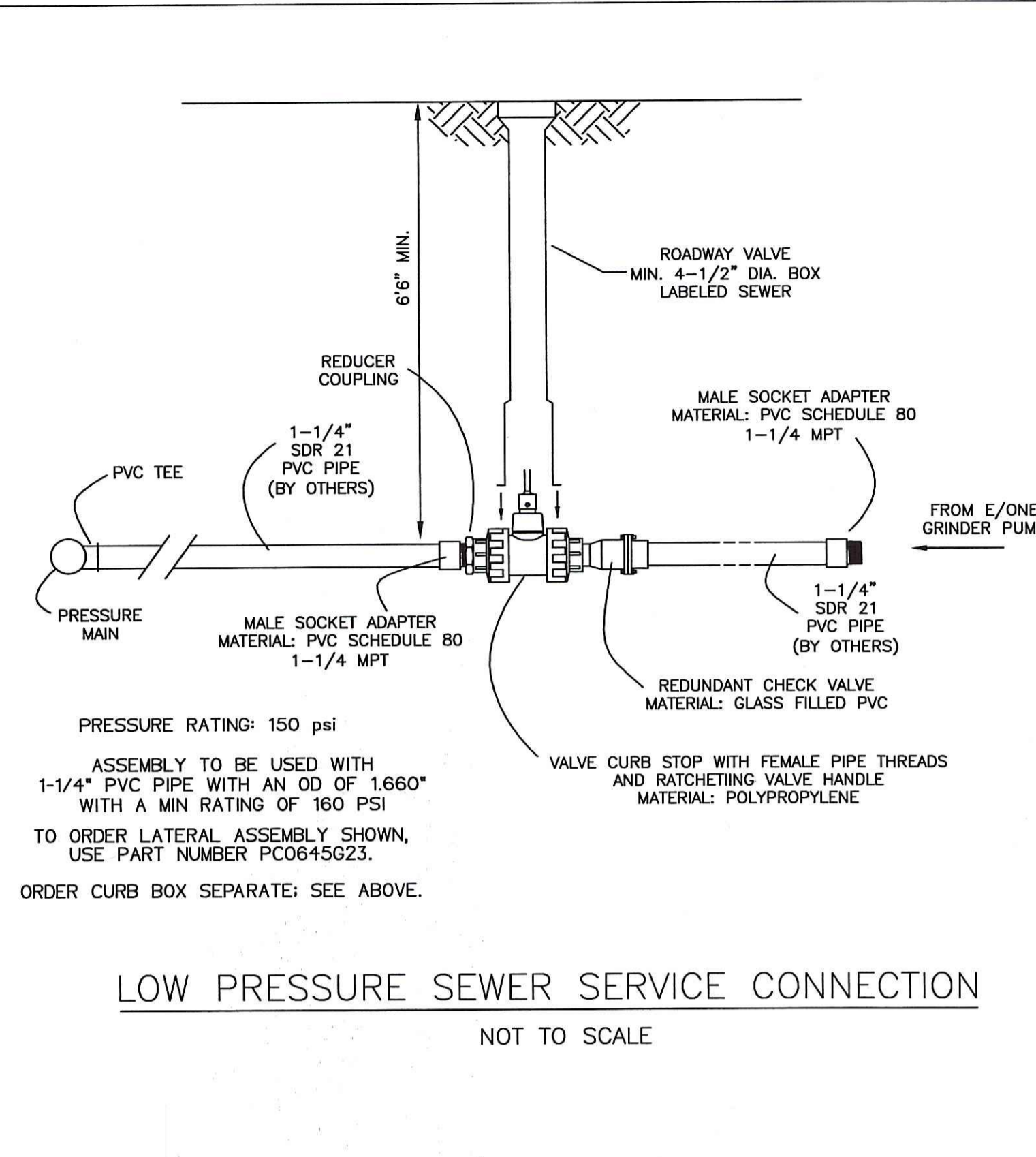
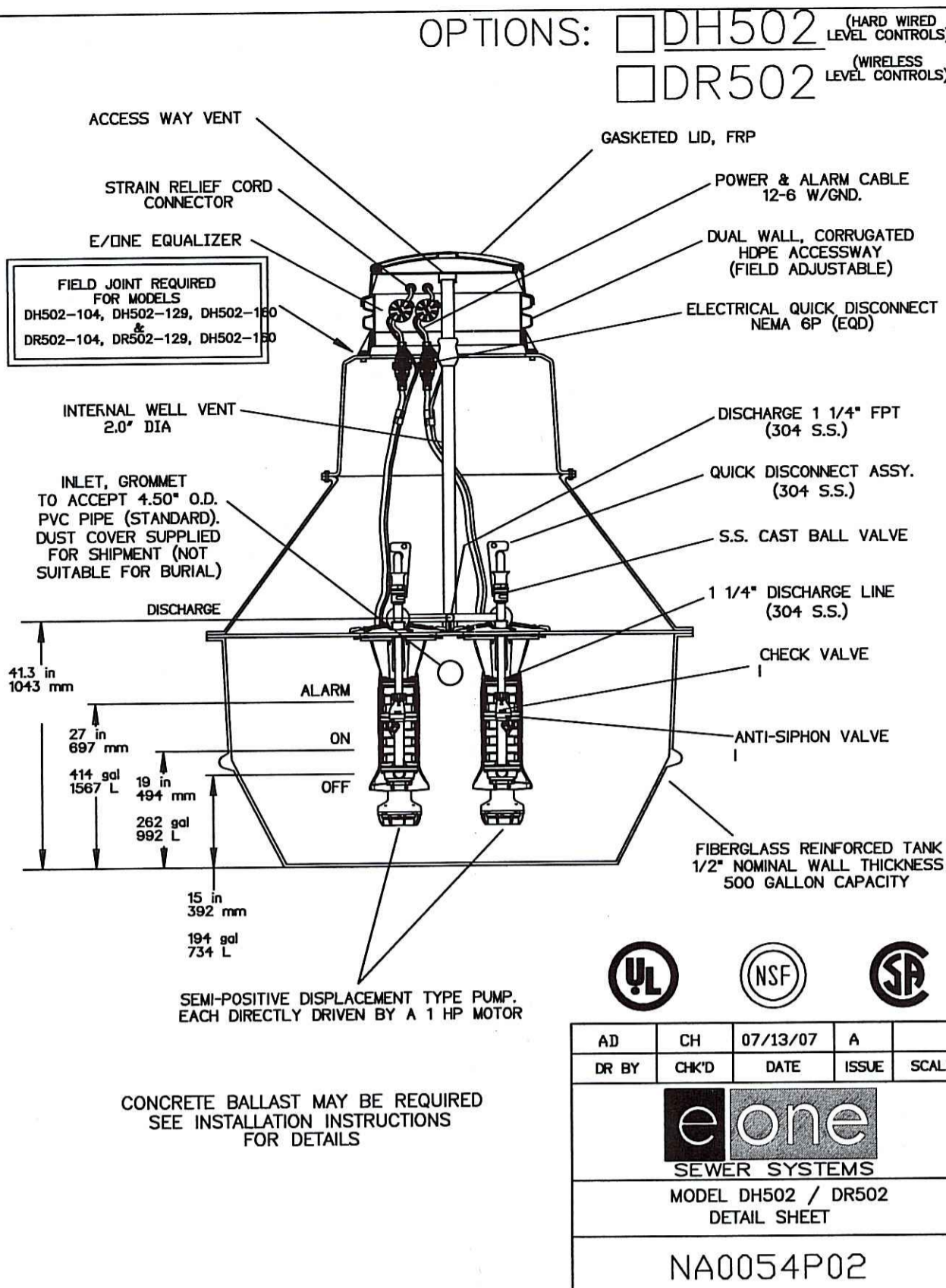
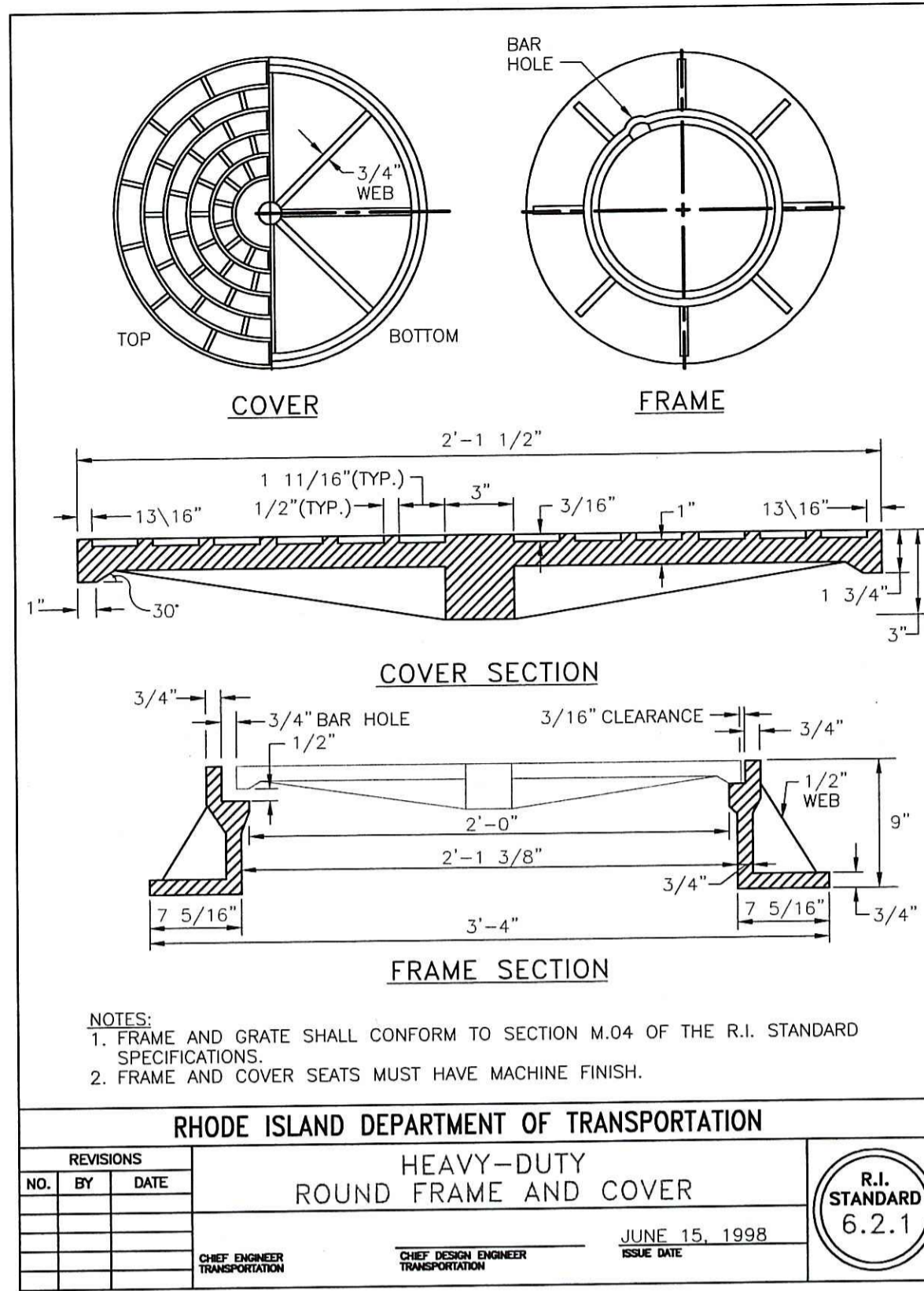
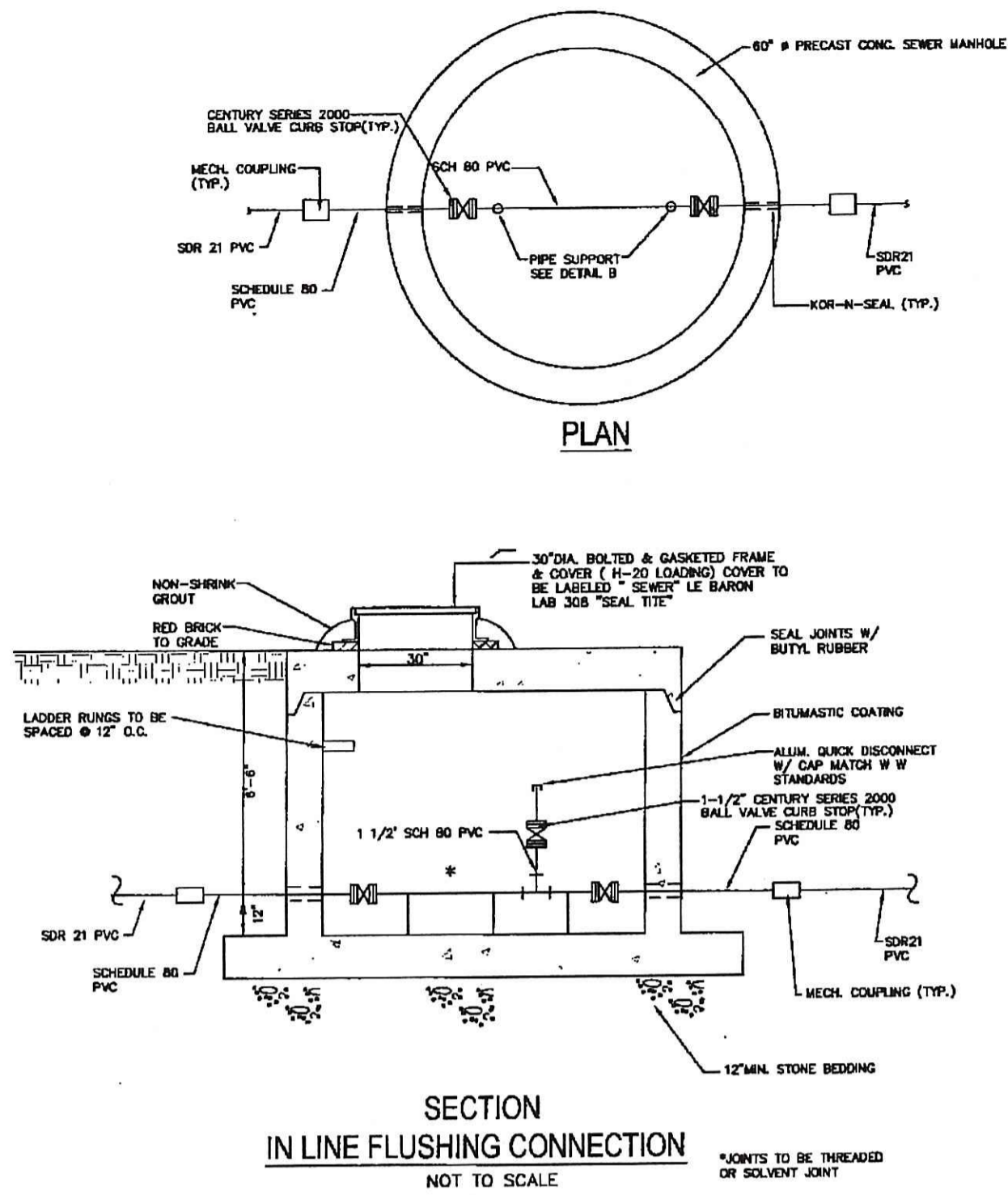
MARC N. NYBERG
No. 1797
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DEPARTMENT OF ENVIRONMENTAL MANAGEMENT
OFFICE OF ENGINEERING BY: PAUL J. GADOURY, P.E.
FRESHWATER ENGINEERING, INC.
APPROVED FOR THE TOWN OF NORTH SMITHFIELD
CUMBERLAND, RHODE ISLAND 02864
AS SPECIFIED IN THE LETTER OF INTENT DATED SEP 28, 2010

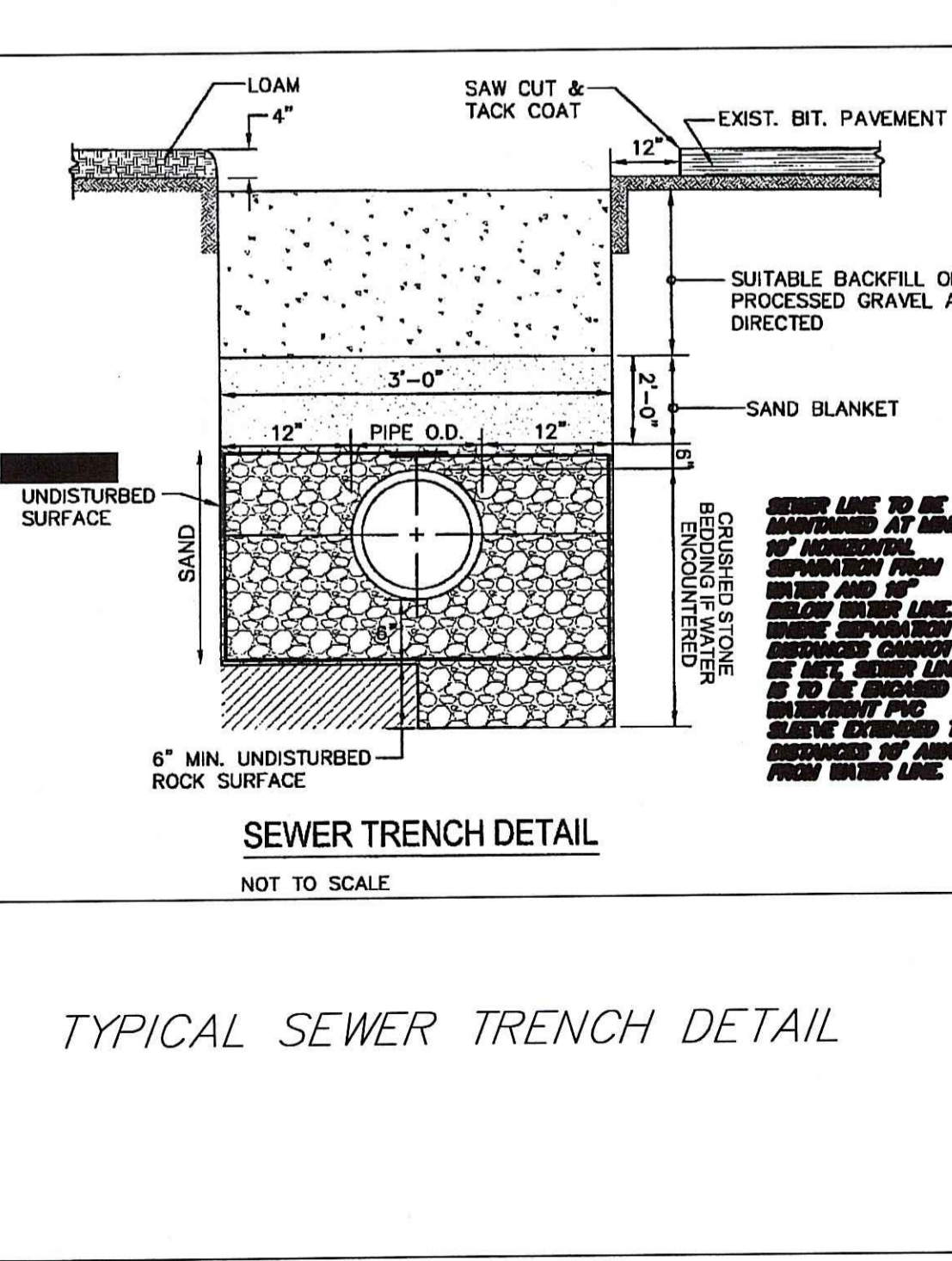
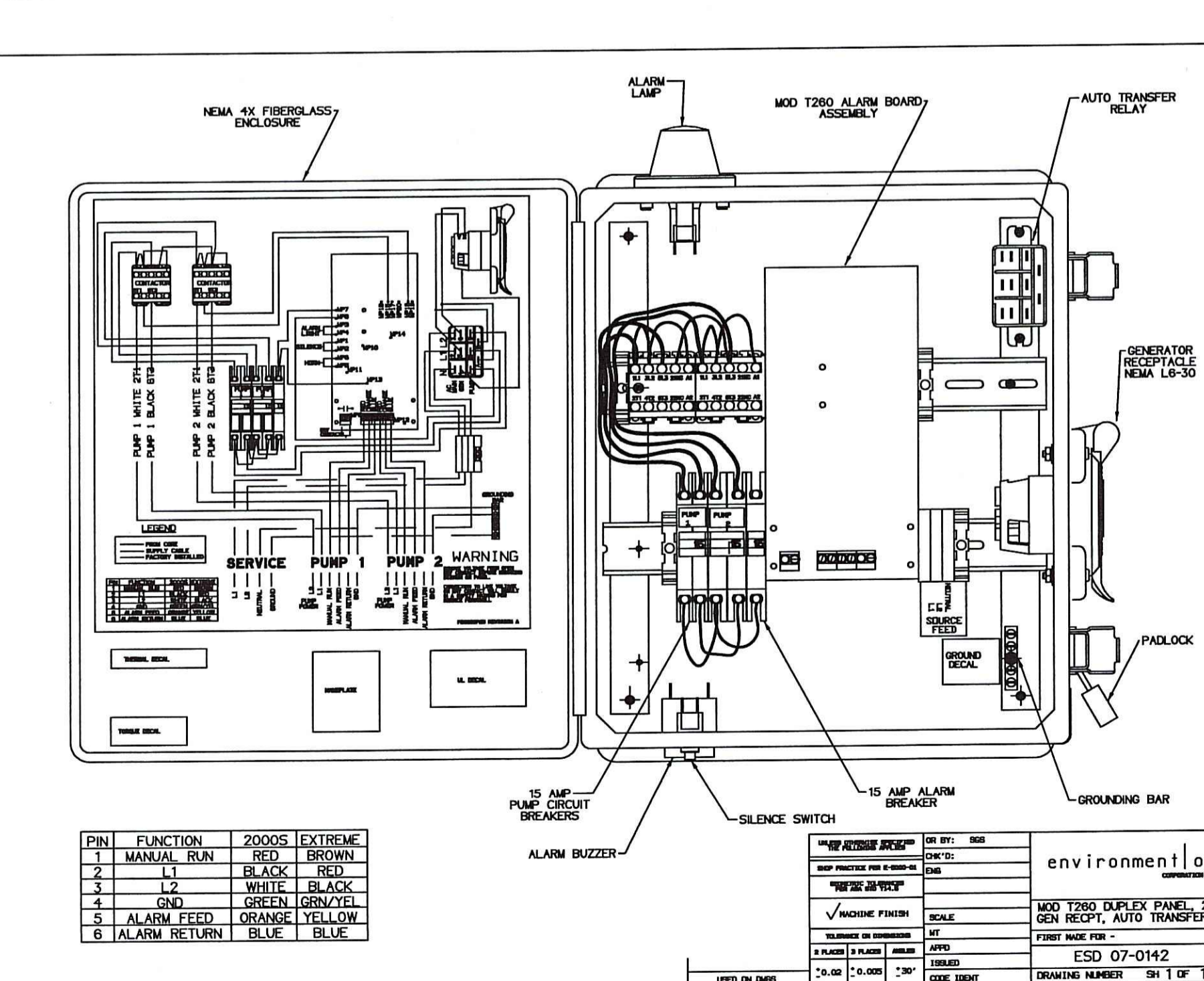
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DATED: _____ FILE # 10-0091
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Wendy L. Freeman



TEST HOLE DATA		DATE: 8/10/06	DATE: 4/3/07
TH3	0"-5" A, SIL, 10YR 4/4	TH6	0"-4" A, SIL, 10YR 3/3
5"-24" Bw, SL, 10YR 5/6		4"-16" Bw, SL, 10YR 4/6	
24"-96" C, CB, G, LOS, 2.5YR 6/4		16"-34" Bc, SL, 2.5YR 5/4	
NO LEDGE AT 96"		34"-108" C, ST, CB, G, LS, 2.5YR 6/3	
ESHWT: 60"		LEDGE AT 74"	
		LEDGE AT 108"	
		ESHWT: 84"	
TH4	0"-2" A, SIL, 10YR 3/3	TH 9A	0"-26" FILL
2"-14" Bw, SL, 10YR 4/4		26"-48" Bw, SL, 10YR 5/6	
14"-32" Bc, SL, 2.5YR 5/4		48"-96" C, MS, 2.5YR 7/2	
32"-72" C, VST, CB, G, LS, 2.5YR 6/3		96"-144" ZC, ST, CB, G, LS, 5YR 5/3	
72"-84" C2, ST, CB, G, LS, 2.5YR 5/3		LEDGE AT 84"	
LEDGE AT 78"		ESHWT: 96"	
ESHWT: 72"			
TH5	0"-4" A, SIL, 10YR 3/3	TH 9B	0"-10" A, SIL, 10YR 3/2
4"-24" Bw, SL, 10YR 4/4		10"-42" Bw, SL, 10YR 6/4	
24"-50" Bc, SL, 2.5YR 6/4		42"-90" C, LS, 2.5YR 7/2	
50"-78" C, ST, CB, G, LS, 2.5YR 6/3		90"-96" ZC, ST, CB, G, LS, 2.5YR 6/2	
LEDGE AT 78"		ESHWT: 96"	
ESHWT: 73"			
		TH3A	0"-6" A, SIL, 10YR 3/2
		8"-20" Bw, SL, 10YR 4/4	
		34"-74" C, ST, CB, G, LS, 5YR 5/3	
		LEDGE AT 74"	
		LEDGE AT 90"	
		ESHWT: 54"	
		TH4A	0"-18" Ap, SIL, 10YR 3/2
		18"-30" Bw, SL, 10YR 4/4	
		30"-60" Bc, SL, 2.5YR 5/4	
		60"-74" C, MS, 2.5YR 6/2	
		74"-120" C2, MS, 5YR 5/2	
		NO LEDGE AT 96"	
		ESHWT: 74"	
		TH5A	0"-5" Ap, SIL, 10YR 3/2
		8"-20" Bw, SL, 10YR 4/4	
		20"-36" Bc, SL, 2.5YR 5/4	
		36"-72" C, MS, 2.5YR 6/3	
		72"-120" C2, MS, 5YR 5/2	
		NO LEDGE AT 120"	
		ESHWT: 72"	
		TH6A	0"-8" Ap, SIL, 10YR 3/2
		8"-20" Bw, SL, 10YR 4/4	
		20"-36" Bc, SL, 2.5YR 5/4	
		36"-90" C, MS, 2.5YR 6/3	
		LEDGE AT 90"	
		ESHWT: 90"	
		TH7A	0"-6" A, SIL, 10YR 3/2
		6"-28" Bw, SL, 10YR 4/4	
		28"-38" C, COS, 2.5YR 5/4	
		38"-96" C2, ST, CB, G, LS, 5YR 5/2	
		LEDGE AT 96"	
		ESHWT: 70"	
		TH8A	0"-5" A, SIL, 10YR 4/4
		5"-24" Bw, SL, 10YR 5/6	
		24"-96" C, CB, G, LOS, 2.5YR 6/4	
		NO LEDGE AT 96"	
		ESHWT: 72"	



SEWER NOTES

- PUMP ALARM DEVICE SHALL BE LOCATED IN A CONSPICUOUS LOCATION, IN ACCORDANCE WITH NATIONAL AND LOCAL CODES.
- PUMP POWER AND ALARM CIRCUITS SHALL BE ON SEPARATE POWER CIRCUITS.
- GENERATOR RECEPTACLE AND AUTO TRANSFER- THE ALARM PANEL SHALL INCLUDE A GENERATOR RECEPTACLE WITH A SPRING-LOADED, GASKETED COVER SUITABLY MOUNTED TO PROVIDE ACCESS FOR CONNECTION OF AN EXTERNAL GENERATOR WHILE MAINTAINING A 4X RATING. AN AUTOMATIC TRANSFER SWITCH SHALL BE PROVIDED, WHICH AUTOMATICALLY SWITCHES FROM AC POWER TO GENERATOR POWER DURING A POWER OUTAGE. THE ALARM BOARD POWER SHALL BE PROVIDED THROUGH THE GENERATOR RECEPTACLE DURING A POWER OUTAGE. WHEN AC POWER IS RESTORED, THE PANEL SHALL AUTOMATICALLY SWITCH BACK TO THE AC POWER MODE.
- SEWER LINE TO BE MAINTAINED AT 10" SEPARATION FROM WATER LINE AND 18" BELOW. WHERE NOT POSSIBLE SEWER TO BE ENCASED IN WATERTIGHT PVC SLEEVE FOR MINIMUM DISTANCE OF 10" AWAY FROM WATER LINE.

DEPARTMENT OF ENVIRONMENTAL MANAGEMENT
OFFICE OF WATER RESOURCES
FRESHWATER WETLANDS PROGRAM
APPROVED WITH COMMENTS

AS SPECIFIED IN THE LETTER OF APPROVAL DATED SEP 29 2010 FILE # 10-0091
NO CHANGES ALLOWED WITHOUT PRIOR APPROVAL. APPROVED PLANS MUST BE AT CONSTRUCTION SITE.

Nancy L. Freeman

DETAIL SHEET FOR PHASE II INDUSTRIAL DRIVE COMMERCE PARK ASSESSOR'S PLAT 5, LOT 76 SUB LOT 1, SUBLOT 2, SUBLOT 5 NORTH SMITHFIELD, RHODE ISLAND

APRIL, 2010
SHEET 5 OF 5

MARC N. NYBERG
No. 1797
PROFESSIONAL LAND SURVEYOR

PAUL J. GADOURY
NO. 3637
REGISTERED PROFESSIONAL ENGINEER

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