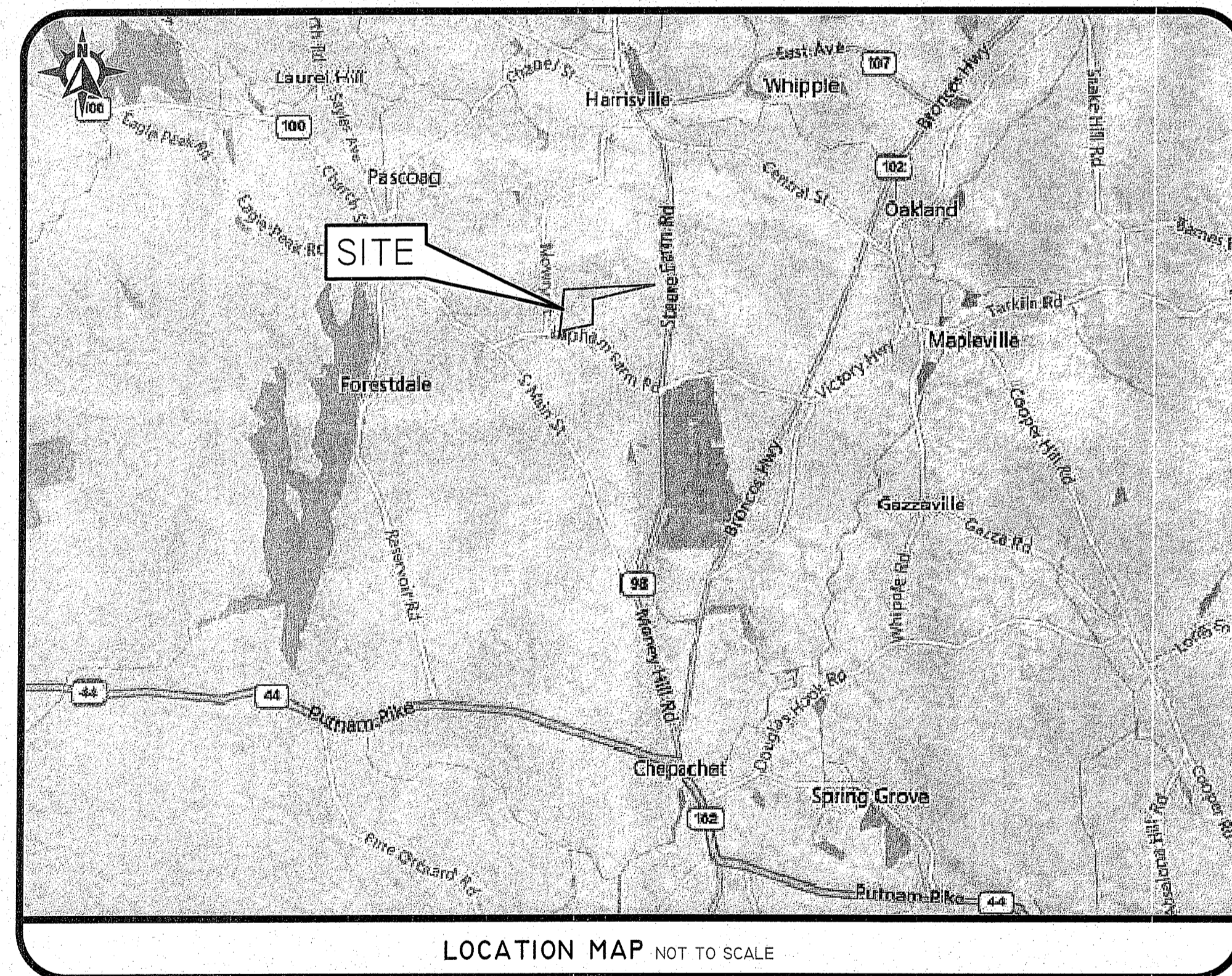


RIDEM PRELIMINARY DETERMINATION

LAPHAM FARM ROAD

202 LAPHAM FARM ROAD
 BURRILLVILLE, RHODE ISLAND
 ASSESSOR'S PLAT 211 LOT 2



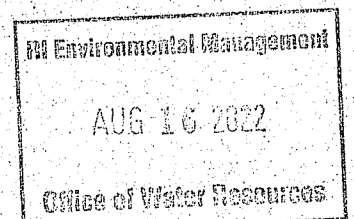
LOCATION MAP NOT TO SCALE

SHEET LIST TABLE

- 1 COVER SHEET
- 2 AERIAL HALF MILE RADIUS
- 3 NOTES AND LEGEND
- 4 EXISTING ANALYSIS PLAN
- 5 SOIL EROSION & SEDIMENT CONTROL PLAN
- 6 SITE LAYOUT PLAN
- 7 GRADING & UTILITIES PLAN-1
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- 11 POND DETAILS-2
- 12 DETAIL SHEET-1
- 13 DETAIL SHEET-2

RI DEPARTMENT OF ENVIRONMENTAL MANAGEMENT
 OFFICE OF WATER RESOURCES
 FRESHWATER WETLANDS PROGRAM
 APPROVED WITH CONDITIONS AS
 SPECIFIED IN THE LETTER OF APPROVAL
 DATED: Mar 23 2023 FILE #: 21-0328
 NO CHANGES ALLOWED WITHOUT PRIOR APPROVAL
 APPROVED PLANS MUST BE AT CONSTRUCTION SITE
Martin D. Wences

PLAN FOR NOTICE



COVER SHEET

LAPHAM FARM ROAD

ASSESSOR'S PLAT 211 LOT 2

BURRILLVILLE, RHODE ISLAND

PREPARED FOR:
 JAMES, JUDITH, JOSEPH AND MURIEL FARRELL
 P.O. 805, CHEPACHET, RHODE ISLAND 02814

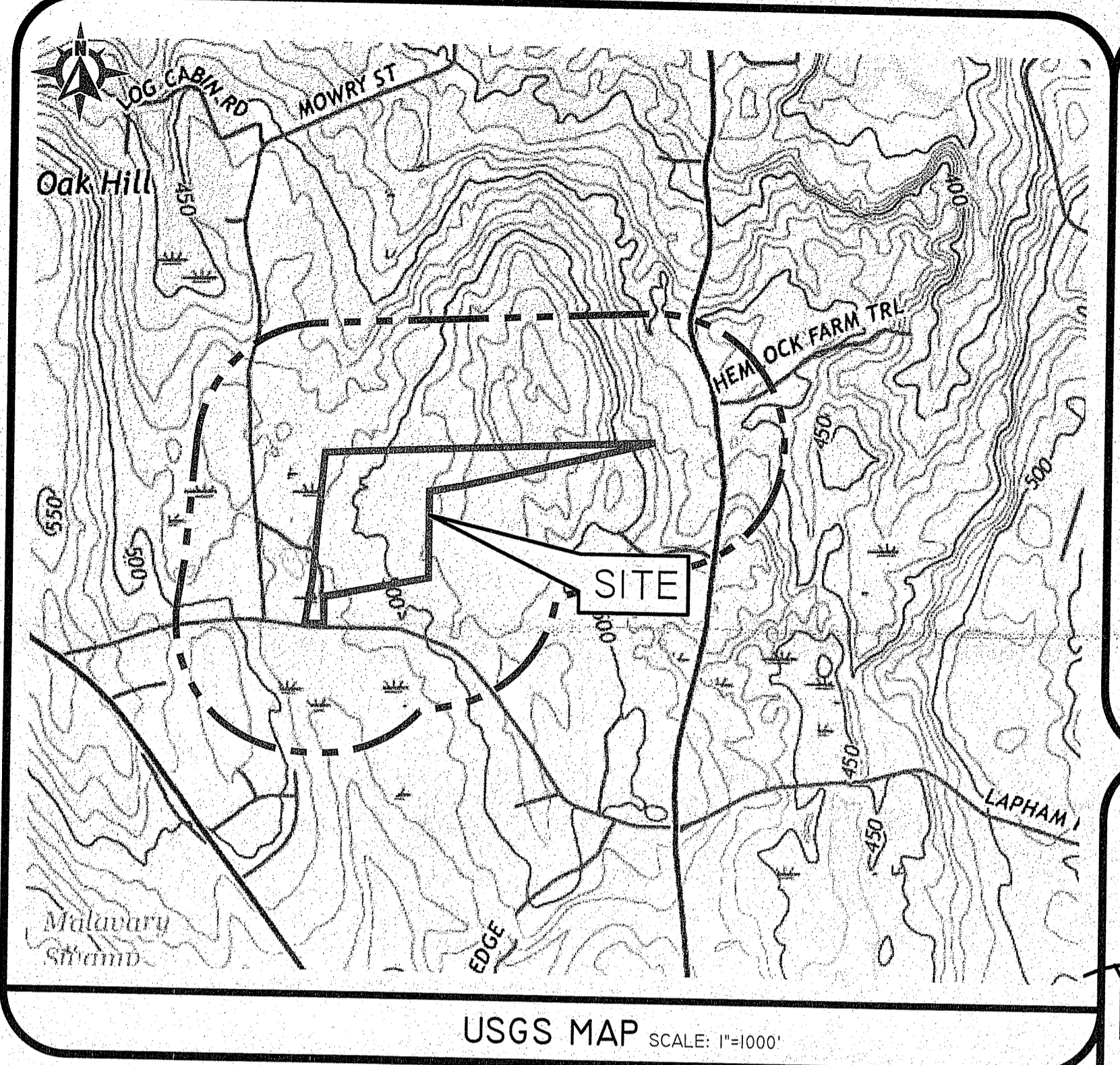
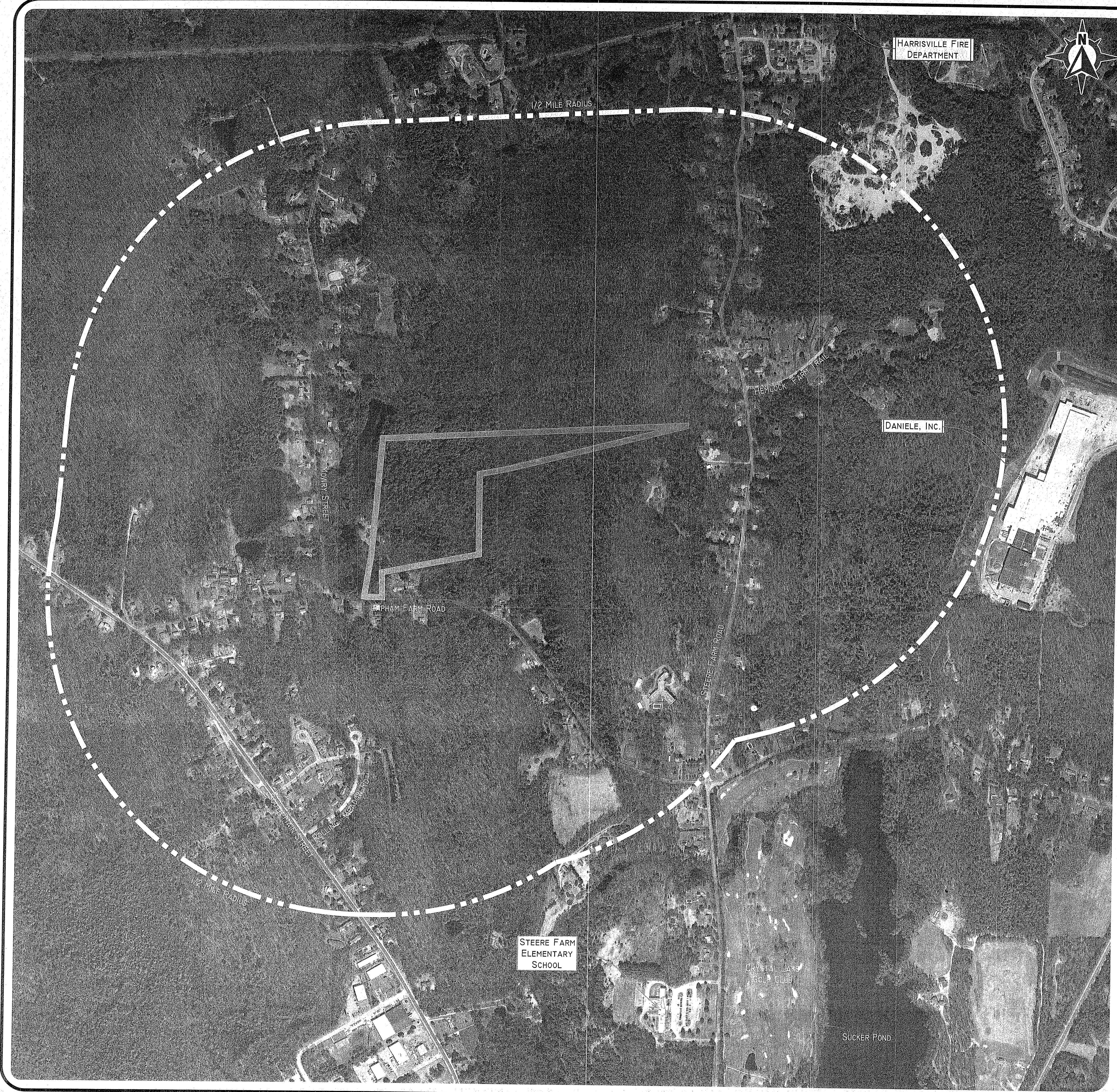
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THIS PLAN AND ANY OTHER INSTRUMENTS OF SERVICE PREPARED BY OR UNDER THE SUPERVISION OF THE ENGINEER OR ARCHITECT ARE TO BE USED ONLY FOR THE PROJECT AND SITE SPECIFICALLY IDENTIFIED HEREON. ANY REUSE OF THIS INSTRUMENT OF SERVICE FOR ANY OTHER PROJECT WITHOUT THE WRITTEN CONSENT OF DIPRETE ENGINEERING IS STRICTLY PROHIBITED. THE CONTRACTOR IS RESPONSIBLE FOR ALL OF THE MEANS, METHODS, TECHNIQUES, PROCEDURES, SEQUENCES AND SCHEDULES OF CONSTRUCTION. THE CONTRACTOR SHALL BE RESPONSIBLE FOR OBTAINING ALL NECESSARY PERMITS AND APPROVALS. THE CONTRACTOR SHALL BE RESPONSIBLE FOR OBTAINING ALL NECESSARY PERMITS AND APPROVALS. THE CONTRACTOR SHALL BE RESPONSIBLE FOR OBTAINING ALL NECESSARY PERMITS AND APPROVALS. THE CONTRACTOR SHALL BE RESPONSIBLE FOR OBTAINING ALL NECESSARY PERMITS AND APPROVALS.

NO.	DATE	DESCRIPTION	BY:	DESIGN BY:
1	8-16-2022	RIDEM RESPONSE TO COMMENTS	SDM	
2	6-29-2022	RIDEM SITE SUITABILITY SUBMISSION	SDM	
3	11-23-2021	RIDEM PRELIMINARY DETERMINATION	SDM	
4				
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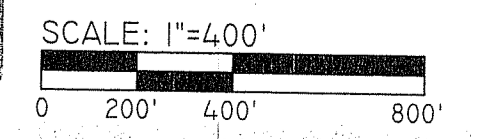
DIPRETE ENGINEERING
 TWO STAFFORD COURT CRANSTON, RI 02920
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 BOSTON • PROVIDENCE • NEWPORT

DAVID A. RUSSO
 No. 12345
 REGISTERED PROFESSIONAL ENGINEER
 CIVIL



USGS MAP SCALE: 1"=1000'

PHOTO OBTAINED FROM RIGIS.
DATE OF PHOTOGRAPHY APRIL 2014.



RI DEPARTMENT OF ENVIRONMENTAL MANAGEMENT
OFFICE OF WATER RESOURCES
FRESHWATER WETLANDS PROGRAM
APPROVED WITH CONDITIONS AS
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DATED: MAR 23 2023 FILE # 21-0328
NO CHANGES ALLOWED WITHOUT PRIOR APPROVAL
APPROVED PLANS MUST BE AT CONSTRUCTION SITE
James D. Wancek

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DAVID A. RUSSO
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CIVIL

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NO.	DATE	DESCRIPTION	BY:
1	8-15-2022	REQUEST RESPONSE TO COMMENTS	SDM
2	8-15-2022	FOR REVIEW AND APPROVAL	SDM
3	8-15-2022	FOR REVIEW AND APPROVAL	SDM
4	11-3-2022	FOR REVIEW AND APPROVAL	SDM
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99	11-3-2022	FOR REVIEW AND APPROVAL	SDM
100	11-3-2022	FOR REVIEW AND APPROVAL	SDM

AERIAL HALF MILE RADIUS
LAPHAM FARM ROAD
ASSESSOR'S PLAT 211 LOT 2
BURRILLVILLE, RHODE ISLAND
PREPARED FOR:
JAMES, JUDITH, JOSEPH AND MUREL FARRELL
P. O. BOX, CHEPACHET, RHODE ISLAND 02814
DE JOB NO. 232-001 COPYRIGHT 2023 BY DIPRETE ENGINEERING ASSOCIATES, INC.

Z:\MECHANICAL\PROJECTS\2312-001 LAPHAM FARM ROAD\AUTOCAD DRAWINGS\2312-001-C\ME.dwg Purview: 8/16/2022

GENERAL NOTES:

- 1. THE SITE IS LOCATED ON THE TOWN OF BURRILLVILLE ASSESSOR'S PLAT 21 LOT 2.
2. THE SITE IS APPROXIMATELY 28.5 ACRES AND IS ZONED R-40.
3. THE OWNER OF AP 21 LOT 2 IS: JAMES, JUDITH, JOSEPH & MURIEL FARRELL...

SOIL EROSION AND SEDIMENT CONTROL NOTES:

- 1. THE CONTRACTOR IS RESPONSIBLE FOR ALL SOIL EROSION AND SEDIMENT CONTROL ON SITE WHICH MUST BE CONSTRUCTED AND MAINTAINED IN ACCORDANCE WITH THE APPLICABLE REGULATIONS AND AUTHORITY HAVING JURISDICTION...
2. ALL EROSION CONTROL INCLUDING (BUT NOT LIMITED TO) TEMPORARY SWALES, TEMPORARY SEDIMENT TRAPS, ETC. MUST BE INSTALLED PER THE LATEST EDITION OF THE RHODE ISLAND SOIL EROSION AND SEDIMENT CONTROL (SES) HANDBOOK...

DEMOLITION NOTES:

- 1. CONTRACTOR MUST OBTAIN ALL FEDERAL, STATE, AND MUNICIPAL APPROVALS PRIOR TO THE START OF CONSTRUCTION.
2. CONTRACTOR MUST PERFORM DAILY SWEEPING AT CONSTRUCTION ENTRANCE DURING DEMOLITION AND CONSTRUCTION TO MINIMIZE SEDIMENTS ON EXTERNAL STREETS.
3. ANY EXISTING BUILDING(S) AND PROPERTY PROPOSED TO REMAIN THAT ARE DAMAGED BY THE CONTRACTOR MUST BE REPAIRED BY THE CONTRACTOR AT NO ADDITIONAL COST TO THE OWNER.

TRAFFIC NOTES:

- 1. ALL TRAFFIC CONTROL MUST CONFORM TO THE FEDERAL HIGHWAY ADMINISTRATION (FHWA) MANUAL ON UNIFORM TRAFFIC CONTROL DEVICES (MUTCD) CURRENT EDITION.
2. DURING CONSTRUCTION, TRAFFIC CONES MUST BE USED FOR SEPARATION OF ACTIVE TRAFFIC FROM WORK ZONE PER MUTCD REQUIREMENTS.
3. DURING CONSTRUCTION FLAGGERS MUST BE EMPLOYED TO ENSURE SAFETY FOR INTERACTION OF CONSTRUCTION VEHICLES AND ACTIVE TRAFFIC.

AS-BUILT NOTES:

ALL COMPONENTS OF THE DRAINAGE, SEWER, AND WATER SYSTEMS MUST BE FIELD LOCATED PRIOR TO COVERING. NOTIFY SURVEYOR A MINIMUM OF SEVENTY-TWO (72) HOURS IN ADVANCE OF NEED FOR FIELD LOCATION OF IMPROVEMENTS. SURVEYOR MUST PROVIDE OWNER AND CONTRACTOR WITH WRITTEN NOTICE OF COMPLETION OF FIELD WORK PRIOR TO CONTRACTOR COVERING IMPROVEMENTS. OWNER/DIPRETE WILL NOT ACCEPT FIELD MEASUREMENTS FROM THE SITE CONTRACTOR.

RIDEM SITE SUITABILITY NOTES:

- 1. THERE ARE NO KNOWN EXISTING OR PROPOSED PRIVATE WELLS WITHIN 200 FT OF THE PROPOSED DEVELOPMENT EXCEPT WHERE SHOWN.
2. THERE ARE NO KNOWN EXISTING OR PROPOSED DOWNSPOUTS WITHIN 200 FT OF THE PROPOSED DEVELOPMENT EXCEPT WHERE SHOWN.
3. THERE ARE NO KNOWN PUBLIC WELLS WITHIN 500 FT OF THE PROPOSED DEVELOPMENT.

LAYOUT AND MATERIALS:

- 1. DIMENSIONS ARE FROM THE FACE OF CURB, FACE OF BUILDING, FACE OF WALL, AND CENTER LINE OF PAVEMENT MARKINGS, UNLESS OTHERWISE NOTED.
2. CURBING MUST BE BITUMINOUS BERM, OR AS LABELED ON THE PLANS.
3. SYMBOLS AND LEGENDS OF PROJECT FEATURES ARE GRAPHIC REPRESENTATIONS AND ARE NOT NECESSARILY SCALED TO THEIR ACTUAL DIMENSIONS OR LOCATIONS ON THE DRAWINGS.

GRADING AND UTILITY NOTES:

- 1. CONSTRUCTION TO COMMENCE SUMMER 2022 OR UPON RECEIPT OF ALL NECESSARY APPROVALS.
2. THE CONTRACTOR MUST COORDINATE WITH ALL OF THE APPROPRIATE UTILITY COMPANIES FOR AGREEMENTS TO SERVICE THE PROPOSED DEVELOPMENT. THIS MUST BE DONE PRIOR TO CONSTRUCTION. NO REPRESENTATIONS ARE MADE BY DIPRETE ENGINEERING THAT UTILITY SERVICE IS AVAILABLE.
3. THE CONTRACTOR IS RESPONSIBLE FOR DETERMINING FINISH GRADING AND DRAINAGE AROUND THE HOMES TO ENSURE SURFACE WATER AND/OR GROUNDWATER IS DIRECTED AWAY FROM THE STRUCTURES.

- FLARED END SECTIONS: RIDOT STD 2.3.0
• CATCH BASINS: RIDOT STD 4.4.0, 4' DIAMETER
• CATCH BASINS MUST HAVE 3 FT SUMP WITHOUT SEEP HOLES
• SINGLE FRAME CATCH BASIN GRATES: RIDOT STD 2
• DOUBLE FRAME CATCH BASIN GRATES: RIDOT STD 6.3.2

ALL DRAINAGE STRUCTURES MUST BE WATERTIGHT. DRAINAGE CONNECTIONS FROM ALL YARD DRAINS (YD), AREA DRAINS (AD), TRENCH DRAINS (TD), FRENCH DRAINS (FD), WALL DRAINS (WD), AND DOWNSPOUTS (DS) ARE SHOWN FOR SCHEMATIC PURPOSES ONLY. THE LEVEL OF DETAIL SHOWN DOES NOT INCLUDE ALL JOINTS THAT MAY BE REQUIRED FOR CONSTRUCTION. ALL FITTINGS AND PIPE SLOPES THAT TIE INTO MAIN TRUNK LINE MUST BE FIELD FIT BY CONTRACTOR.

WATER IN THE CASE OF ANY NEW HYDRANT INSTALLED IN OR NEXT TO AN EXISTING SIDEWALK, THE CONTRACTOR MUST INCREASE THE WIDTH OF THE SIDEWALK, AS NECESSARY, TO MAINTAIN A MINIMUM OF 3'-0" CLEAR WIDTH FROM THE OUTERMOST COMPONENTS OF THE HYDRANT TO THE EDGE OF THE SIDEWALK. THE 3'-0" SIDEWALK WIDTH IS REQUIRED ONLY ON ONE SIDE OF THE HYDRANT TO PROVIDE A CLEAR PATH ON THE SIDEWALK.

ELECTRIC/TELECOM/GAS PROPOSED GAS, ELECTRIC, CABLE AND DATA UTILITIES ARE SHOWN SCHEMATICALLY AND ARE PROPOSED TO BE UNDERGROUND. OWNER AND CONTRACTOR MUST COORDINATE FINAL DESIGN WITH APPROPRIATE UTILITY COMPANIES. ALL WORK MUST BE IN ACCORDANCE WITH EACH UTILITY COMPANY'S STANDARDS AND DETAILS AS WELL AS LOCAL AND FEDERAL REGULATIONS. THIS INCLUDES BUT IS NOT LIMITED TO POLES, TRANSFORMERS, PULL BOXES, CONCRETE PADS, CONCRETE ENCASUREMENTS AND CONDUITS. CONNECTION POINTS FOR ELECTRIC AND TELECOM UTILITIES, AT THE EXISTING INFRASTRUCTURE, ARE CURRENTLY SHOWN AS UNDERGROUND UTILITIES. THESE UTILITIES MAY BE UNDERGROUND OR OVERHEAD AND MUST BE COORDINATED WITH NATIONAL GRID PRIOR TO CONSTRUCTION.

SITE LIGHTING SITE LIGHTING (TEMPORARY AND PERMANENT) MUST BE DIRECTED AWAY FROM AND SHIELDED FROM ENVIRONMENTALLY SENSITIVE AREAS AND ABUTTING LANDS. EXACT LOCATIONS OF LIGHT POLES MUST BE COORDINATED WITH THE APPROPRIATE UTILITIES, AND MUST BE LOCATED WITHIN THE STREET RIGHT OF WAY. FINAL LIGHTING AND CONDUIT LOCATIONS BY OTHERS.

AMERICANS WITH DISABILITIES ACT (ADA) NOTES:

- 1. ALL IMPROVEMENTS MUST COMPLY WITH THE 'AMERICANS WITH DISABILITIES ACT' ACCESSIBILITY GUIDELINES' (ADAAG) BY THE US DEPARTMENT OF JUSTICE (CURRENT EDITION).
2. MAXIMUM RUNNING SLOPE ALONG ALL ACCESSIBLE PATHS OF TRAVEL MUST BE 4.5% (0.045 FT/FT), AND MAXIMUM CROSS SLOPE ACROSS ALL ACCESSIBLE PATHS OF TRAVEL MUST BE 1.5% (0.015 FT/FT).
3. NOTWITHSTANDING THE NOTES LISTED ABOVE, TOWN OR STATE-SPECIFIC STANDARDS MAY BE MORE STRINGENT AND OVERRULE. IT IS THE RESPONSIBILITY OF THE USER OF THIS PLAN SET TO MAINTAIN COMPLIANCE WITH THE CONTROLLING STANDARD.

ABBREVIATIONS LEGEND

Table with 2 columns: Abbreviation and Description. Includes ADA (Americans with Disability Act), AHJ (Authority Having Jurisdiction), ARCH (Architect), BC (Bottom of Trench), BT (Bottom of Testhole), BIT (Bituminous Berm), BIO (Bioretention), BS (Basement Slab Elevation), BW (Finished Grade at Bottom of Wall), CB (Catch Basin), etc.

EXISTING LEGEND

Table with 2 columns: Symbol and Description. Includes Property Line, Assessors Line, Building, Brushline, Treeline, Guardrail, Fence, Retaining Wall, Stone Wall, Minor Contour Line, Major Contour Line, Water Line, Sewer Line, Sewer Force Main, Gas Line, Electric Line, Overhead Wires, Drainage Line, Soils Lines, etc.

PROPOSED LEGEND

Table with 2 columns: Symbol and Description. Includes Property Line, Building Setbacks, Chainlink Fence, Retaining Wall, Minor Contour Line, Major Contour Line, Spot Elevation, Edge of Pavement, Bituminous Berm, Concrete Curb, Building Footprint, Building Overhang, Asphalt Pavement, Heavy Duty Asphalt Pavement, Heavy Duty Concrete, Concrete, Asphalt Sidewalk, Sawcut Line, Sign, Single Light, Double Light, Overhanging Light, Accessible Parking Spaces Symbols, Building Ingress/Egress, etc.

UTILITY NOTE:

ALL UNDERGROUND UTILITIES SHOWN ON THESE PLANS WERE PROVIDED BY OTHERS AND ARE APPROXIMATE ONLY. LOCATIONS MUST BE DETERMINED IN THE FIELD BEFORE EXCAVATION, BLASTING, UTILITY INSTALLATION, BACKFILLING, GRADING, PAVEMENT RESTORATION, AND ALL OTHER SITE WORK. ALL UTILITY COMPANIES, PUBLIC AND PRIVATE, MUST BE CONTACTED INCLUDING THOSE IN CONTROL OF UTILITIES NOT SHOWN ON THESE DOCUMENTS. CONTACT DIG SAFE A MINIMUM OF 72 WORKING HOURS PRIOR TO ANY CONSTRUCTION AT 811. DIG SAFE IS RESPONSIBLE FOR CONTACTING MEMBER UTILITY COMPANIES. DIG SAFE MEMBER UTILITY COMPANIES ARE RESPONSIBLE TO MARK ONLY THE FACILITIES THAT THEY OWN OR MAINTAIN. NON DIG SAFE MEMBER UTILITIES ARE NOT NOTIFIED BY DIG SAFE. IT IS THE CONTRACTOR'S RESPONSIBILITY TO INVESTIGATE AND NOTIFY IF ANY PRIVATELY OWNED OR NON DIG SAFE MEMBER UTILITIES ARE IN THE AREA.

SOIL INFORMATION:

(REFERENCE: SOIL MAPPING OBTAINED FROM RIGIS. SOIL GEOGRAPHIC DATA DEVELOPED BY THE RHODE ISLAND SOIL SURVEY PROGRAM IN PARTNERSHIP WITH THE NATIONAL COOPERATIVE SOIL SURVEY)

Table with 2 columns: Soil Name and Description. Includes AFA* (Agawam Fine Sandy Loam, 0 to 3 Percent Slopes), CHC (Chincley Gravelly Sandy Loam, Rolling), WA (Wolpole Sandy Loam).

Diprete Engineering logo and contact information: 100 Stafford Court, Cranston, RI 02909, Tel: 401-949-9000, Fax: 401-949-6066, www.diprete-eng.com

Professional Engineer stamp for David A. Russo, No. 1255, Registered Professional Engineer, Civil.

THIS PLAN SET MUST NOT BE USED FOR CONSTRUCTION PURPOSES UNLESS IT IS STAMPED AND SIGNED BY A REGISTERED PROFESSIONAL ENGINEER AND STAMPED BY THE REGISTERED PROFESSIONAL ENGINEER OF DIPRETE ENGINEERING. DIPRETE ENGINEERING ONLY WARRANTS PLANS ON A DIPRETE ENGINEERING PROJECT. DIPRETE ENGINEERING IS NOT A PROFESSIONAL ENGINEER OF DIPRETE ENGINEERING. DIPRETE ENGINEERING DOES NOT WARRANT PLANS BY ANY OTHER PARTY.

Table with 4 columns: No., Date, Description, and By. Lists revision history for Robert Response to Comments, Submittal, and Revisions.

RI DEPARTMENT OF ENVIRONMENTAL MANAGEMENT OFFICE OF WATER RESOURCES FRESHWATER WETLANDS PROGRAM APPROVED WITH CONDITIONS AS SPECIFIED IN THE LETTER OF APPROVAL DATED: MAR 23 2022 FILE #: 21-0-328

NOTES AND LEGEND LAPHAM FARM ROAD ASSESSOR'S PLAT 21 LOT 2 BURRILLVILLE, RHODE ISLAND PREPARED FOR: JAMES, JUDITH, JOSEPH AND MURIEL FARRELL P.O. 805, CHEPACHET, RHODE ISLAND 02814



Z:\DEMAN\PROJECTS\2112-001 LAPHAM FARM ROAD\AUTOCAD DRAWINGS\2112-001-PLAN-DWG.PLOTTER 8/15/2022

DEM BENCHMARK
NAIL SET IN EDGE OF PAVEMENT (JULY, 2015)
ELEV=487.5
TO BE VERIFIED PRIOR TO CONSTRUCTION

RI DEPARTMENT OF ENVIRONMENTAL MANAGEMENT
OFFICE OF WATER RESOURCES
FRESHWATER WETLANDS PROGRAM
APPROVED WITH CONDITIONS AS
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DATED: MAR 23 2023 FILE # 21-0238
NO CHANGES ALLOWED WITHOUT PRIOR APPROVAL
APPROVED PLANS MUST BE AT CONSTRUCTION SITE
Martin D. Wencel

NOTE:
SEE ALSO GRADING AND UTILITIES SHEET
PLANS FOR TEST HOLES

SCALE: 1"=100'

0 50' 100' 200'

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No. 1335
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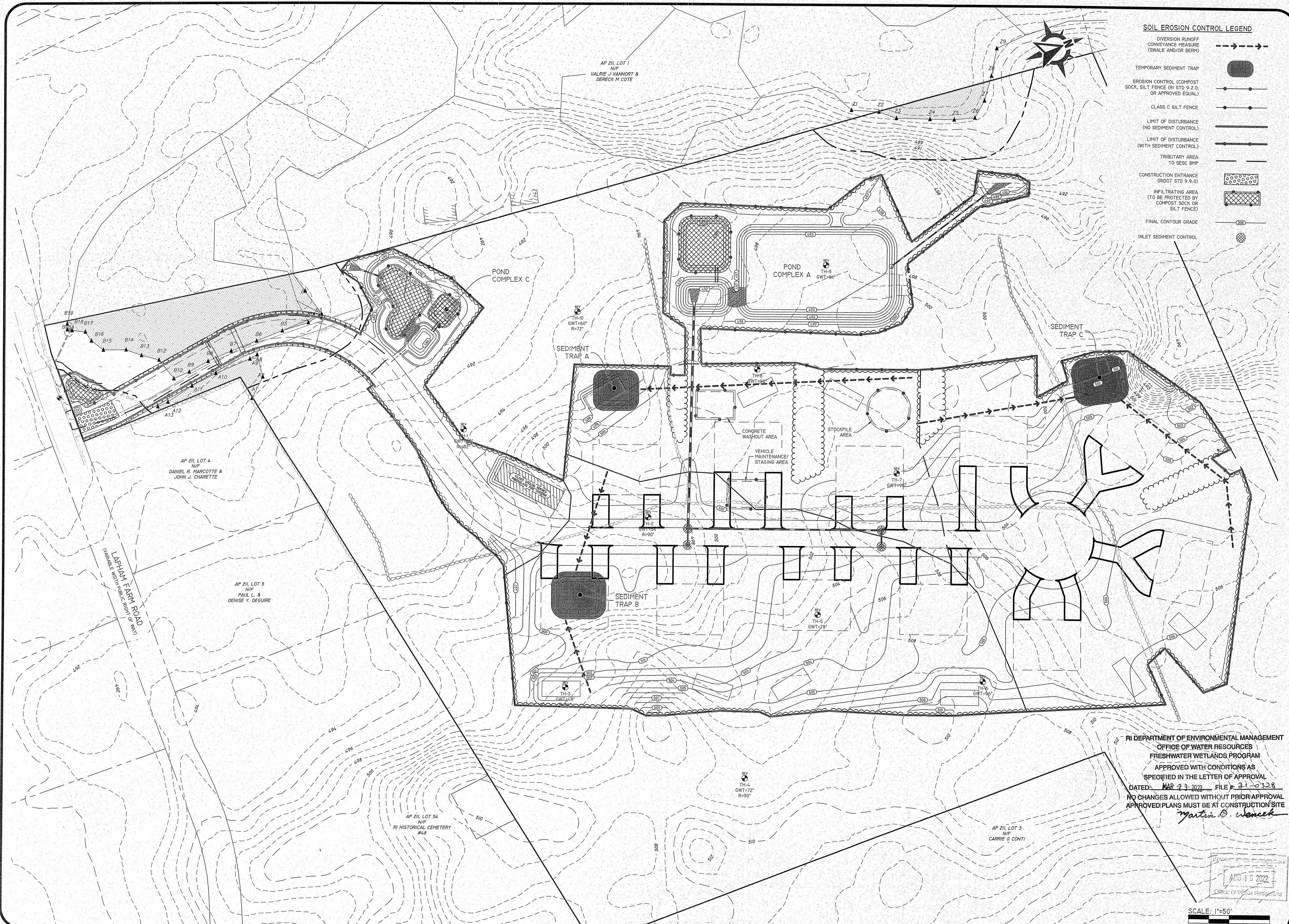
THIS PLAN SET MUST NOT BE USED FOR CONSTRUCTION PURPOSES UNLESS IT IS ACCOMPANIED BY THE ORIGINAL SET OF DRAWINGS AND STAMPED BY A REGISTERED PROFESSIONAL ENGINEER OF DIPRETE ENGINEERING.
DIPRETE ENGINEERING ONLY WARRANTS PLANS ON A DIPRETE PROFESSIONAL ENGINEER'S SEAL AND SIGNATURE. DIPRETE ENGINEERING SHALL NOT BE RESPONSIBLE FOR ANY OTHER PARTY'S USE OF THIS PLAN SET FOR ANY PURPOSES OTHER THAN THE DESIGN, CONSTRUCTION, MAINTENANCE, SAFETY, PRECAUTIONS AND REPAIRS, AND OSHA DESIGN.
EXISTING UTILITIES SHOWN ON THIS PLAN ARE APPROXIMATE AND NOT TO BE RELIED UPON FOR CONSTRUCTION PURPOSES. DIPRETE ENGINEERING ASSUMES NO RESPONSIBILITY FOR DAMAGE TO EXISTING UTILITIES.
SEE UTILITY NOTE ON SHEET 5.

1	11-15-2022	DESIGN RESPONSE TO COMMENTS	DAW
2	02-22-2023	DESIGN RESPONSE TO COMMENTS	DAW
3	03-05-2023	DESIGN RESPONSE TO COMMENTS	DAW
4	03-05-2023	DESIGN RESPONSE TO COMMENTS	DAW
5	03-05-2023	DESIGN RESPONSE TO COMMENTS	DAW
6	03-05-2023	DESIGN RESPONSE TO COMMENTS	DAW
7	03-05-2023	DESIGN RESPONSE TO COMMENTS	DAW
8	03-05-2023	DESIGN RESPONSE TO COMMENTS	DAW
9	03-05-2023	DESIGN RESPONSE TO COMMENTS	DAW
10	03-05-2023	DESIGN RESPONSE TO COMMENTS	DAW
11	03-05-2023	DESIGN RESPONSE TO COMMENTS	DAW
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13	03-05-2023	DESIGN RESPONSE TO COMMENTS	DAW
14	03-05-2023	DESIGN RESPONSE TO COMMENTS	DAW
15	03-05-2023	DESIGN RESPONSE TO COMMENTS	DAW
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17	03-05-2023	DESIGN RESPONSE TO COMMENTS	DAW
18	03-05-2023	DESIGN RESPONSE TO COMMENTS	DAW
19	03-05-2023	DESIGN RESPONSE TO COMMENTS	DAW
20	03-05-2023	DESIGN RESPONSE TO COMMENTS	DAW
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96	03-05-2023	DESIGN RESPONSE TO COMMENTS	DAW
97	03-05-2023	DESIGN RESPONSE TO COMMENTS	DAW
98	03-05-2023	DESIGN RESPONSE TO COMMENTS	DAW
99	03-05-2023	DESIGN RESPONSE TO COMMENTS	DAW
100	03-05-2023	DESIGN RESPONSE TO COMMENTS	DAW

EXISTING ANALYSIS PLAN
LAPHAM FARM ROAD
BURLINGAME, RHODE ISLAND
PREPARED FOR:
JAMES, JUDITH, JOSEPH AND MURIEL FARRELL
P.O. BOX, CHEPACHET, RHODE ISLAND 02814

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SHEET 4 OF 12



- SOIL EROSION CONTROL LEGEND**
- DIVERSION RUNOFF CONVEYANCE MEASURE (SWALE AND/OR BERM)
 - TEMPORARY SEDIMENT TRAP
 - EROSION CONTROL (COMPOST SOCK, SILT FENCE (RI STD 9-2.0, OR APPROVED EQUAL))
 - CLASS C SILT FENCE
 - LIMIT OF DISTURBANCE (NO SEDIMENT CONTROL)
 - LIMIT OF DISTURBANCE (WITH SEDIMENT CONTROL)
 - TRIBUTARY AREA TO SESC BMP
 - CONSTRUCTION ENTRANCE (RIDOT STD 9-9.0)
 - INFILTRATING AREA (TO BE PROTECTED BY COMPOST SOCK OR SILT FENCE)
 - FINAL CONTOUR GRADE
 - INLET SEDIMENT CONTROL

DiPrete Engineering
 Two Stafford Court, Cranston, RI 02926
 Tel: 401-943-1000 Fax: 401-943-0006 www.diprete-eng.com

DAVID A. RUSSO
 No. 13255
 REGISTERED PROFESSIONAL ENGINEER CIVIL

THIS PLAN SET MUST NOT BE USED FOR CONSTRUCTION PURPOSES UNLESS STAMPED, ISSUED FOR CONSTRUCTION AND STAMPED BY THE REGISTERED PROFESSIONAL ENGINEER OF DIPRETE ENGINEERING. DIPRETE ENGINEERING ONLY WARRANTS PLANS ON A DIPRETE PROFESSIONAL ENGINEER OF DIPRETE ENGINEERING. DIPRETE ENGINEERING DOES NOT WARRANT PLANS BY ANY OTHER PARTY. THE USER OF THESE PLANS SHALL BE RESPONSIBLE FOR THE DESIGN, CONSTRUCTION, AND MAINTENANCE OF THE PROJECT. EXISTING UTILITIES SHOWN ON THIS PLAN ARE APPROXIMATE. ONLY DIPRETE ENGINEERING ASSUMES NO RESPONSIBILITY FOR THE ACCURACY OF EXISTING UTILITIES. SEE UTILITY NOTE ON SHEET 02 FOR EXISTING UTILITIES.

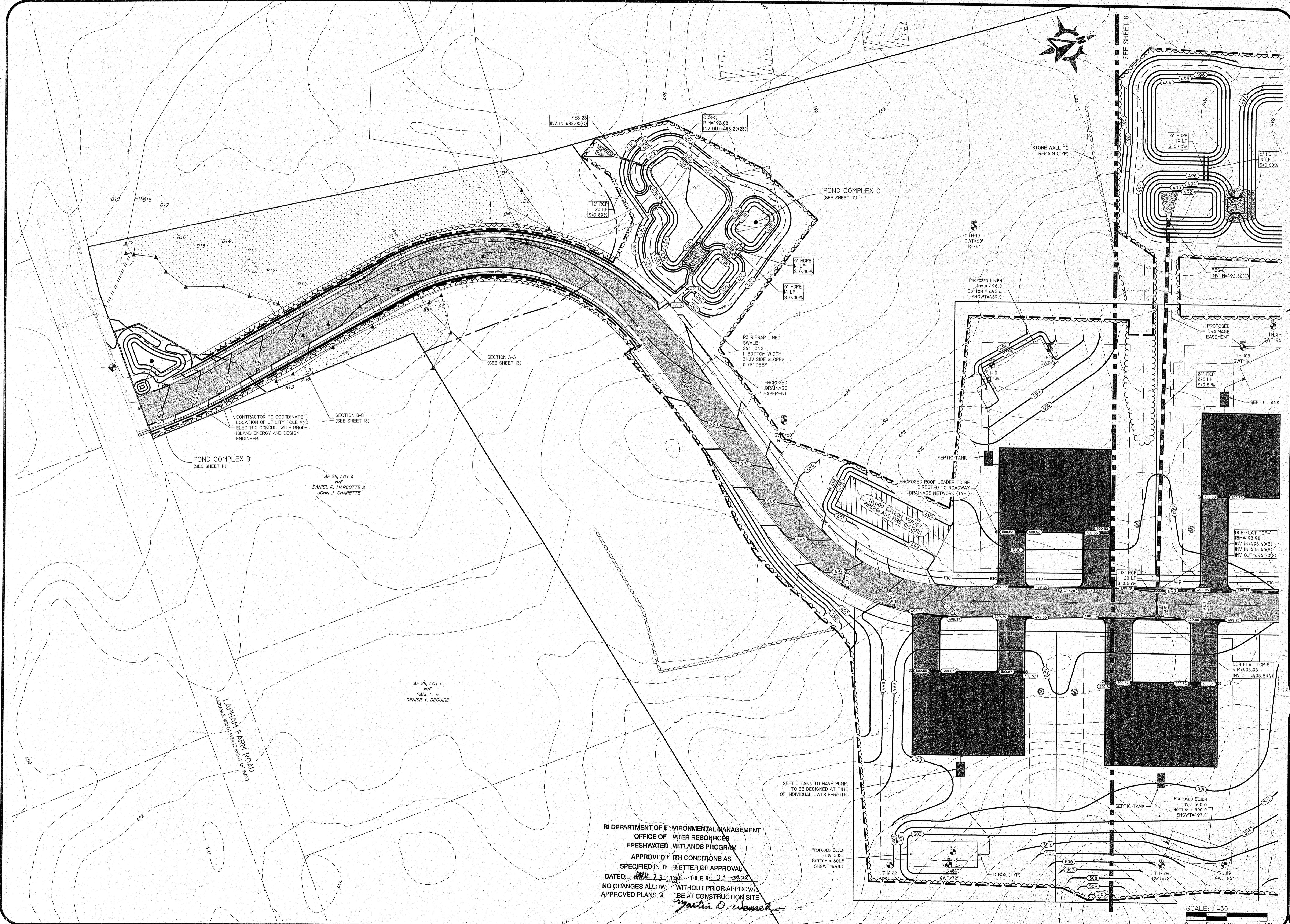
NO.	DATE	DESCRIPTION	DESIGN BY:
1	05-20-2022	PROJECT RESPONSE TO COMMENT	SDM
2	05-20-2022	PROJECT RESPONSE TO COMMENT	SDM
3	05-20-2022	PROJECT RESPONSE TO COMMENT	SDM
4	05-20-2022	PROJECT RESPONSE TO COMMENT	SDM
5	05-20-2022	PROJECT RESPONSE TO COMMENT	SDM
6	05-20-2022	PROJECT RESPONSE TO COMMENT	SDM
7	05-20-2022	PROJECT RESPONSE TO COMMENT	SDM
8	05-20-2022	PROJECT RESPONSE TO COMMENT	SDM
9	05-20-2022	PROJECT RESPONSE TO COMMENT	SDM
10	05-20-2022	PROJECT RESPONSE TO COMMENT	SDM

RI DEPARTMENT OF ENVIRONMENTAL MANAGEMENT
 OFFICE OF WATER RESOURCES
 FRESHWATER WETLANDS PROGRAM
 APPROVED WITH CONDITIONS AS SPECIFIED IN THE LETTER OF APPROVAL
 DATED: MAR 23 2023 FILE # 21-0328
 NO CHANGES ALLOWED WITHOUT PRIOR APPROVAL
 APPROVED PLANS MUST BE AT CONSTRUCTION SITE
Martin D. Wancek

SCALE: 1"=50'
 0 25 50 100'

SOIL EROSION & SEDIMENT CONTROL PLAN
 LAPHAM FARM ROAD
 BURRILLVILLE, RHODE ISLAND
 PREPARED FOR:
 JAMES, JUDITH, JOSEPH AND MURIEL FARRELL
 P.O. 805, CHEPACHET, RHODE ISLAND 02814

Z:\DHMAN\PROJECTS\2102-001 LAPHAM FARM ROAD\AUTOCAD DRAWINGS\2102-001-PL-ANLWS-PLUTTER. 8/16/2022



RI DEPARTMENT OF ENVIRONMENTAL MANAGEMENT
 OFFICE OF WATER RESOURCES
 FRESHWATER WETLANDS PROGRAM
 APPROVED WITH CONDITIONS AS SPECIFIED IN THE LETTER OF APPROVAL
 DATED: MAR 23 2022 FILE #: 21-0528
 NO CHANGES ALLOWED WITHOUT PRIOR APPROVAL
 APPROVED PLANS TO BE AT CONSTRUCTION SITE

Martin D. Wenzel

Diprete Engineering
 Two Stafford Court Cranston, RI 02920
 Tel: 401-943-1000 Fax: 401-664-6006 www.diprete-eng.com

Boston • Providence • Newport

DAVID A. RUSSO
 No. 12345
 REGISTERED PROFESSIONAL ENGINEER
 CIVIL

THIS PLAN SET MUST NOT BE USED FOR CONSTRUCTION PURPOSES UNLESS IT IS APPROVED BY THE RI DEPARTMENT OF ENVIRONMENTAL MANAGEMENT. A REGISTERED PROFESSIONAL ENGINEER OF DIPRETE ENGINEERING HAS REVIEWED THIS PLAN SET AND HAS DETERMINED THAT IT COMPLIES WITH ALL APPLICABLE REGULATIONS AND REQUIREMENTS. THE CONTRACTOR IS RESPONSIBLE FOR ALL OF THE MEANS, METHODS, SAFETY PRECAUTIONS AND REQUIREMENTS, AND OSHA COMPLIANCE IN THE IMPLEMENTATION OF THIS PLAN AND DESIGN. EXISTING UTILITIES SHOWN ON THIS PLAN ARE APPROXIMATE. DAMAGE INCURRED DUE TO LOCATIONS OF EXISTING UTILITIES, SEE UTILITY ASSESSMENT SHEET 33.

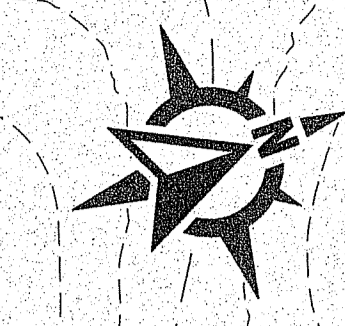
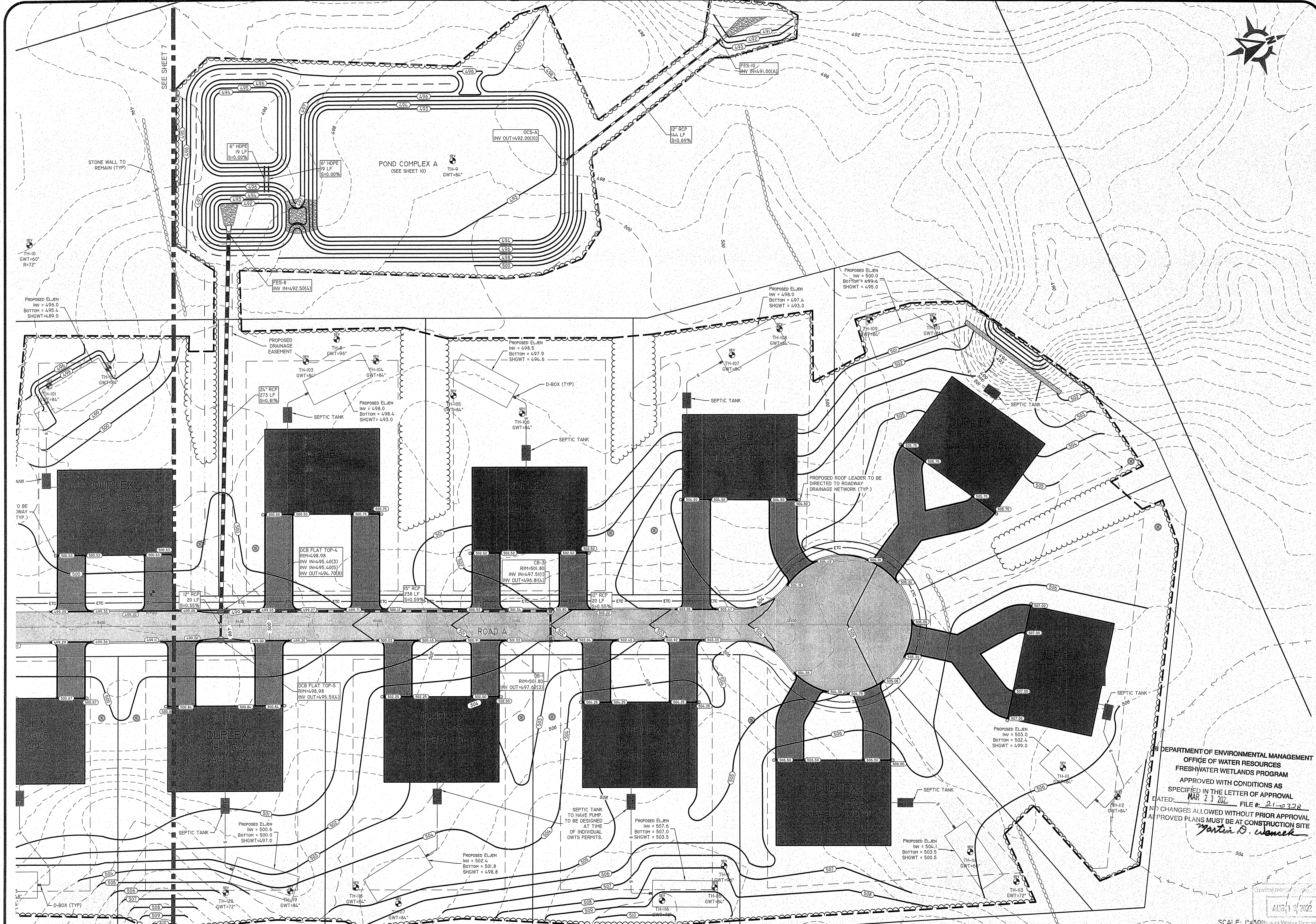
NO.	DATE	DESCRIPTION	BY:
1	12/15/2021	RI DEPT. RESPONSE TO COMMENTS	SDM
2	12/15/2021	RI DEPT. SITE STABILITY SUBMISSION	SDM
3	12/15/2021	RI DEPT. PERMITS/REGISTRATION	SDM
4	12/15/2021	RI DEPT. PERMITS/REGISTRATION	SDM

DESIGN BY: DAB
 DRAWN BY: SDM

GRADING & UTILITIES PLAN-1
 LAPHAM FARM ROAD
 ASSESSOR'S PLAT 211 LOT 2
 BURRILLVILLE, RHODE ISLAND
 PREPARED FOR:
 JAMES, JUDITH, JOSEPH AND MURIEL FARRELL
 P.O. BOX 805, CHEPACHET, RHODE ISLAND 02814

SCALE: 1"=30'
 0 15' 30' 60'

SHEET 7 OF 12



Diprete Engineering
 Two Stafford Court, Cranston, RI 02905
 Tel: 401-943-1000 Fax: 401-664-6006 www.diprete-eng.com

DAVID A. RUSSO
 No. 1435
 REGISTERED PROFESSIONAL ENGINEER
 CIVIL

THIS PLAN WAS PREPARED BY ME OR UNDER MY SUPERVISION AND I AM A REGISTERED PROFESSIONAL ENGINEER IN THE STATE OF RHODE ISLAND. I AM NOT PROVIDING ANY WARRANTIES OR GUARANTEES, EXPRESS OR IMPLIED, FOR THE ACCURACY OF THIS PLAN. THE CONTRACTOR IS RESPONSIBLE FOR ALL OF THE NEARBY UTILITIES AND FOR OBTAINING ALL NECESSARY PERMITS AND APPROVALS. I, DAVID A. RUSSO, ASSUME NO RESPONSIBILITY FOR DAMAGE INCURRED DUE TO LOCATIONS OF EXISTING UTILITIES. THIS PLAN IS VALID FOR ONE YEAR FROM THE DATE OF ISSUANCE.

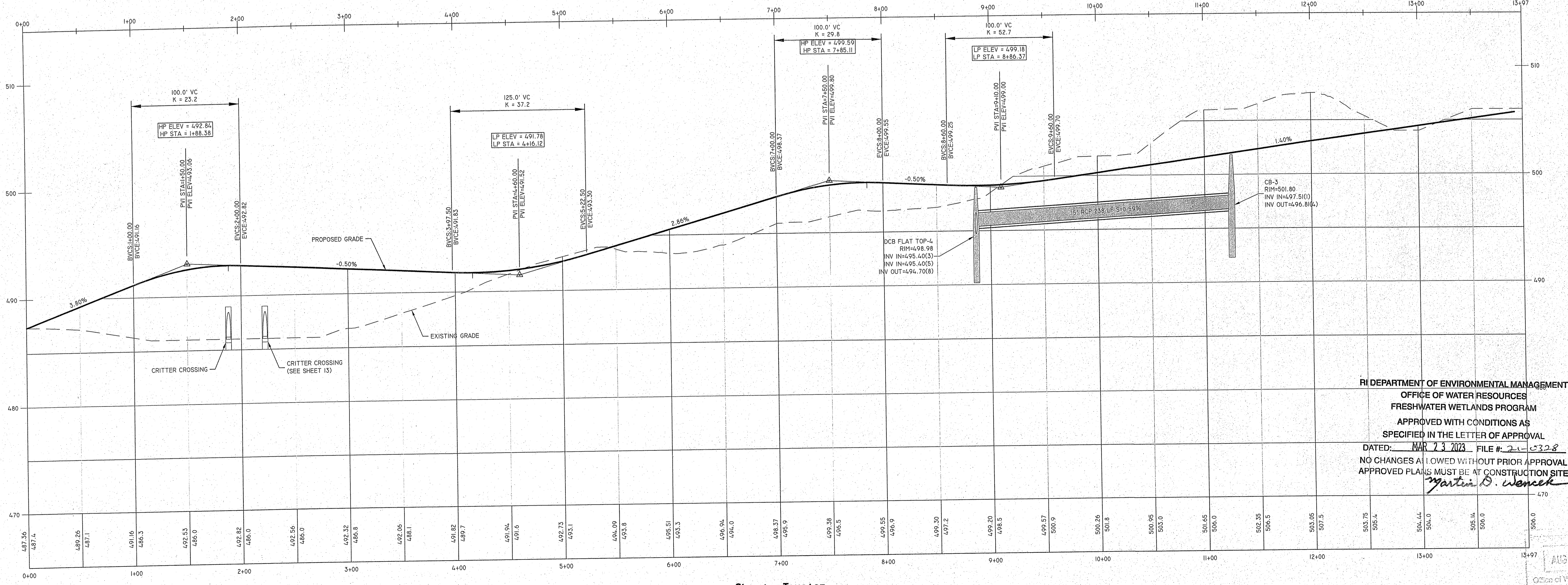
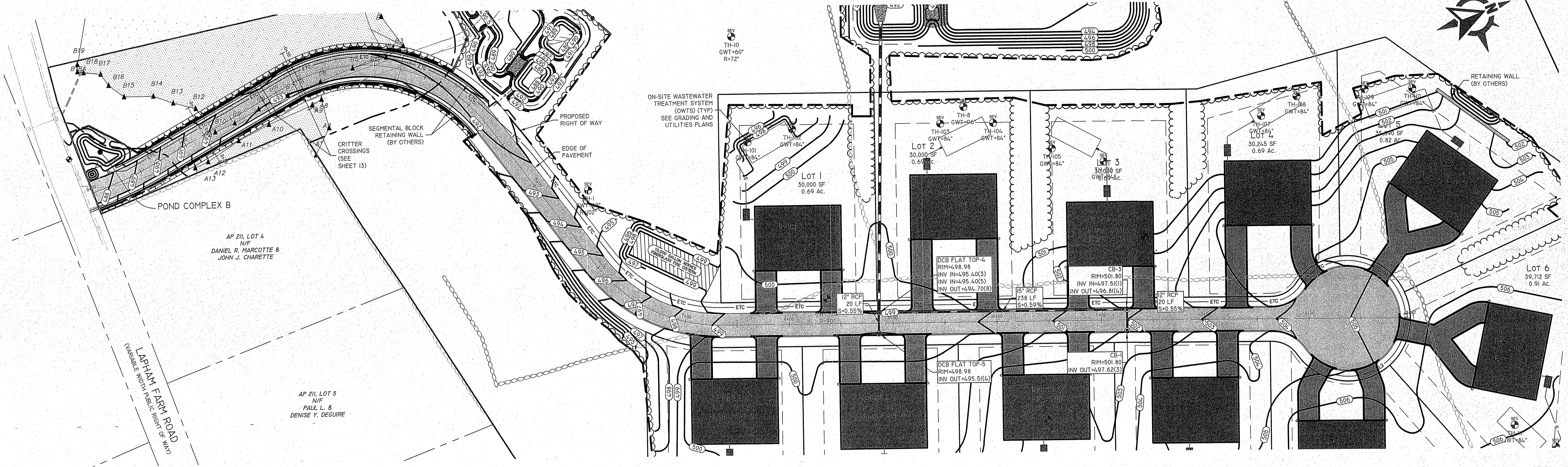
NO.	DATE	DESCRIPTION	BY:
1	8-15-2022	TRIGGER RESPONSE TO COMMENTS	SDM
2	8-29-2022	ROOF SLAB SUBMITTAL FOR PERMSSION	SDM
3	11-5-2022	ROOF SLAB PRELIMINARY DETERMINATION	SDM

DESIGN BY: D.A.R.
 DRAWN BY: SDM

DEPARTMENT OF ENVIRONMENTAL MANAGEMENT
 OFFICE OF WATER RESOURCES
 FRESHWATER WETLANDS PROGRAM
 APPROVED WITH CONDITIONS AS SPECIFIED IN THE LETTER OF APPROVAL
 DATED: MAR 23 2022 FILE #: 21-328
 NO CHANGES ALLOWED WITHOUT PRIOR APPROVAL
 AT PROVED PLANS MUST BE AT CONSTRUCTION SITE
Martin D. Wawack

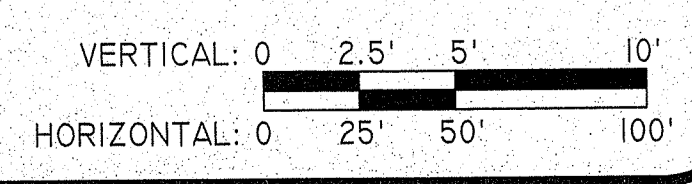
SCALE: 1"=30'
 0 15' 30' 60'

GRADING & UTILITIES PLAN-2
 LAPHAM FARM ROAD
 ASSESSOR'S PLAT 211 LOT 2
 BURLINGVILLE, RHODE ISLAND
 PREPARED FOR:
JAMES, JUDITH, JOSEPH AND MURIEL FARRELL
 P.O. BOX, CHEPACHET, RHODE ISLAND 02814



Sta. 0+00 To 13+97

RI DEPARTMENT OF ENVIRONMENTAL MANAGEMENT
 OFFICE OF WATER RESOURCES
 FRESHWATER WETLANDS PROGRAM
 APPROVED WITH CONDITIONS AS SPECIFIED IN THE LETTER OF APPROVAL
 DATED: MAR 7 3 2023 FILE # 21-0328
 NO CHANGES ALLOWED WITHOUT PRIOR APPROVAL
 APPROVED PLANS MUST BE AT CONSTRUCTION SITE
Martin D. Wenczek



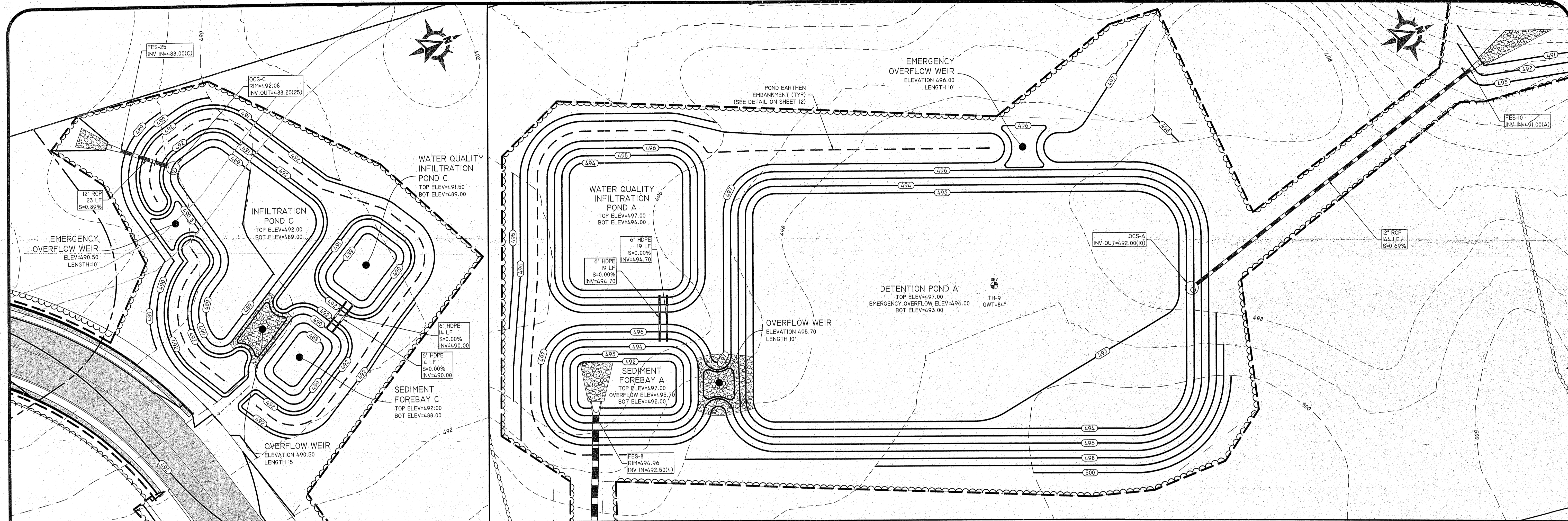
Diprete Engineering
 Two Stafford Court Cranston, RI 02920
 tel 401-943-1000 fax 401-664-6006 www.diprete-eng.com

DAVID A. RUSSO
 No. 1365
 REGISTERED PROFESSIONAL ENGINEER
 CIVIL

THIS PLAN AND PROFILE ARE THE PROPERTY OF DIPRETE ENGINEERING AND SHALL REMAIN THE PROPERTY OF DIPRETE ENGINEERING. NO PART OF THIS PLAN OR PROFILE SHALL BE REPRODUCED OR TRANSMITTED IN ANY FORM OR BY ANY MEANS, ELECTRONIC OR MECHANICAL, INCLUDING PHOTOCOPYING, RECORDING, OR BY ANY INFORMATION STORAGE AND RETRIEVAL SYSTEM, WITHOUT THE WRITTEN PERMISSION OF DIPRETE ENGINEERING. THE CONTRACTOR IS RESPONSIBLE FOR ALL OF THE MEANS, METHODS, TECHNIQUES, PROCEDURES, AND SEQUENCES IN THE IMPLEMENTATION OF THIS PLAN AND PROFILE. EXISTING UTILITIES SHOWN ON THIS PLAN ARE THE RESPONSIBILITY OF THE CONTRACTOR. THE CONTRACTOR SHALL BE RESPONSIBLE FOR OBTAINING ALL NECESSARY PERMITS AND APPROVALS FROM THE APPROPRIATE AGENCIES. DAMAGE TO EXISTING UTILITIES SHALL BE THE RESPONSIBILITY OF THE CONTRACTOR. SEE SHEET 13 FOR CONTIGUOUS SHEETS.

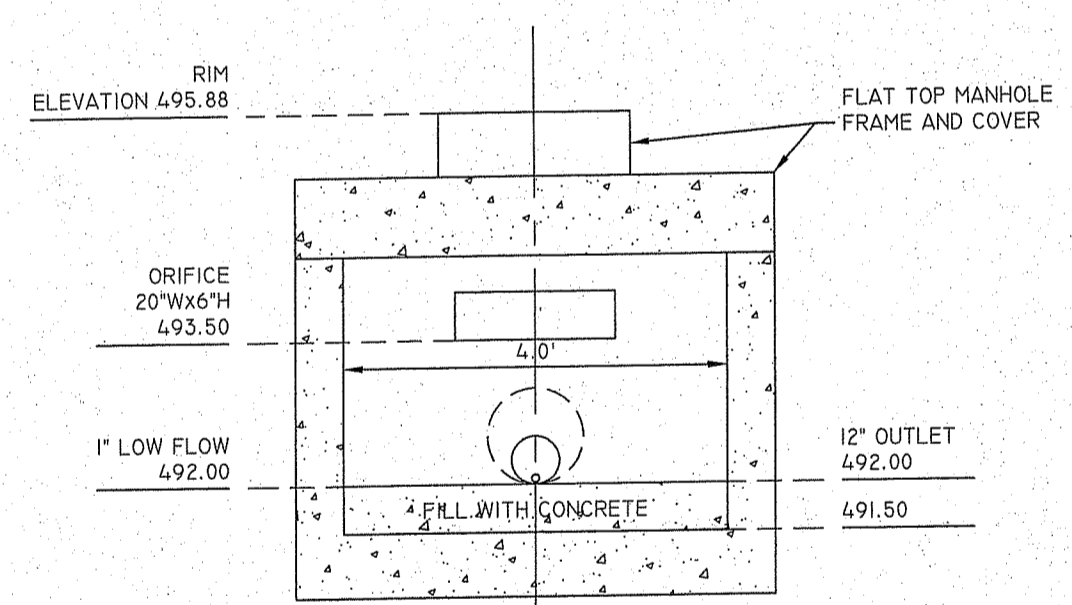
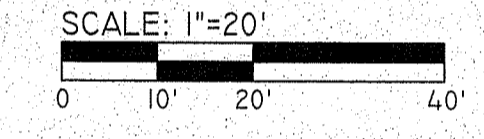
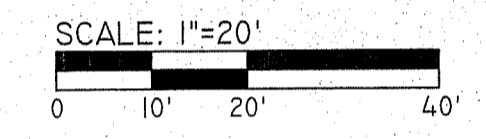
NO.	DATE	DESCRIPTION	BY:
1	5-15-2022	ISSUED RESPONSE TO COMMENTS	SDH
2	5-22-2022	RIGHT SITE SUBMITTAL SUBMISSION	SDH
3	5-25-2022	RIGHT RESPONSE TO COMMENTS	SDH
4	10-25-2022	RIGHT PRELIMINARY	SDH
5	11-25-2022	DESCRIPTION	BY:

PLAN AND PROFILE
LAPHAM FARM ROAD
 ASSESSOR'S PLAT LOT 2
 BURRILLVILLE, RHODE ISLAND
 PREPARED FOR:
JAMES, JUDITH, JOSEPH AND MURIEL FARRELL
 P. O. BOX 805, CHEPACHET, RHODE ISLAND 02814



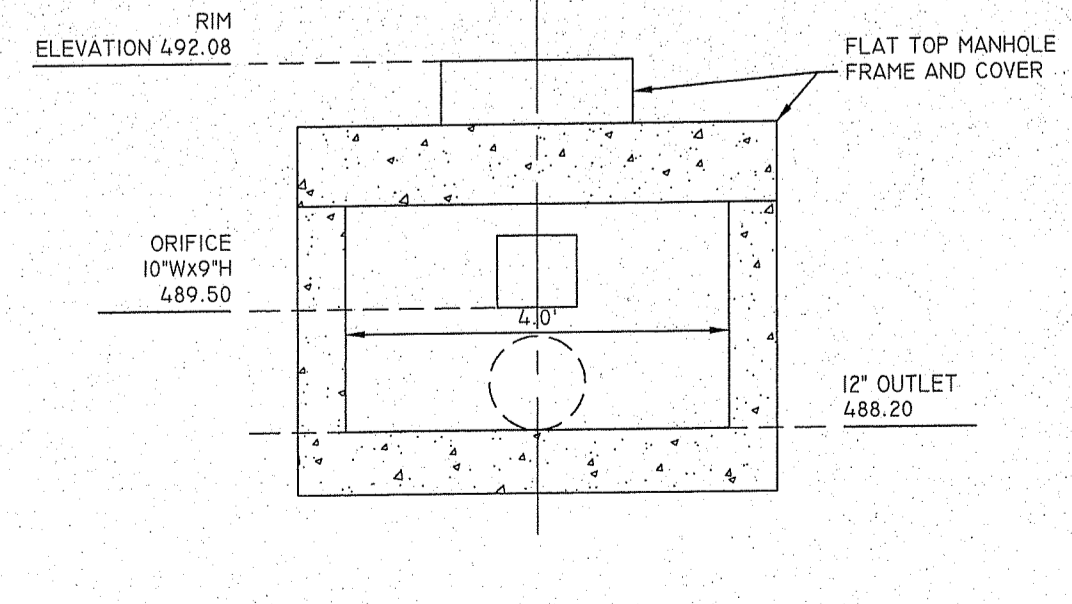
POND COMPLEX C

POND COMPLEX A



OUTLET CONTROL STRUCTURE
4" DIAMETER MANHOLE (OCS-A)

SCALE: 1"=2'



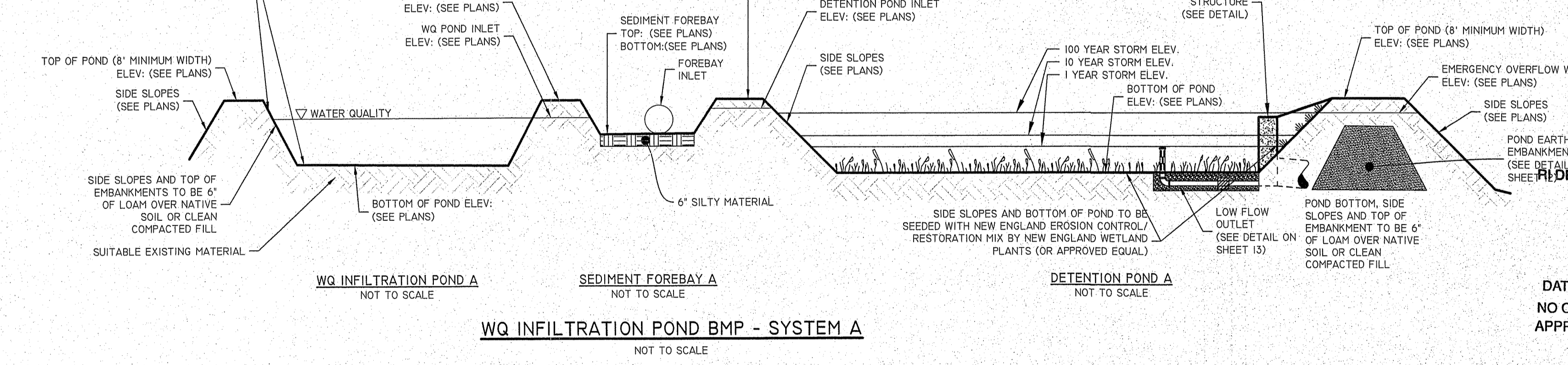
OUTLET CONTROL STRUCTURE
4" DIAMETER MANHOLE (OCS-C)

SCALE: 1"=2'

WATER QUALITY INFILTRATION POND A	WQ-A
TOP OF POND ELEVATION	497.00
100 YEAR STORM ELEVATION	496.36
10 YEAR STORM ELEVATION	495.87
1 YEAR STORM ELEVATION	495.71
WQ STORM ELEVATION	494.00
BOTTOM OF POND ELEVATION	494.00
SEASONAL HIGH GWT ELEVATION	491.0
SOIL EVALUATION	TH-9

NOTE: LIMITS OF INFILTRATION POND TO BE STAKED OUT AND NOT USED AS A TEMPORARY SEDIMENT BASIN DURING CONSTRUCTION (NO CONSTRUCTION TRAFFIC ALLOWED WITHIN POND LIMITS)

BOTTOM & SIDE SLOPES OF POND TO BE SEEDDED WITH NEW ENGLAND EROSION CONTROL/ RESTORATION MIX BY NEW ENGLAND WETLAND PLANTS (OR APPROVED EQUAL)



WQ INFILTRATION POND BMP - SYSTEM A

DETENTION POND A	DP-A
TOP OF POND ELEVATION	497.00
100 YEAR STORM ELEVATION	495.88
10 YEAR STORM ELEVATION	493.93
1 YEAR STORM ELEVATION	493.04
BOTTOM OF POND ELEVATION	493.00
SEASONAL HIGH GWT ELEVATION	491.0
SOIL EVALUATION	TH-9

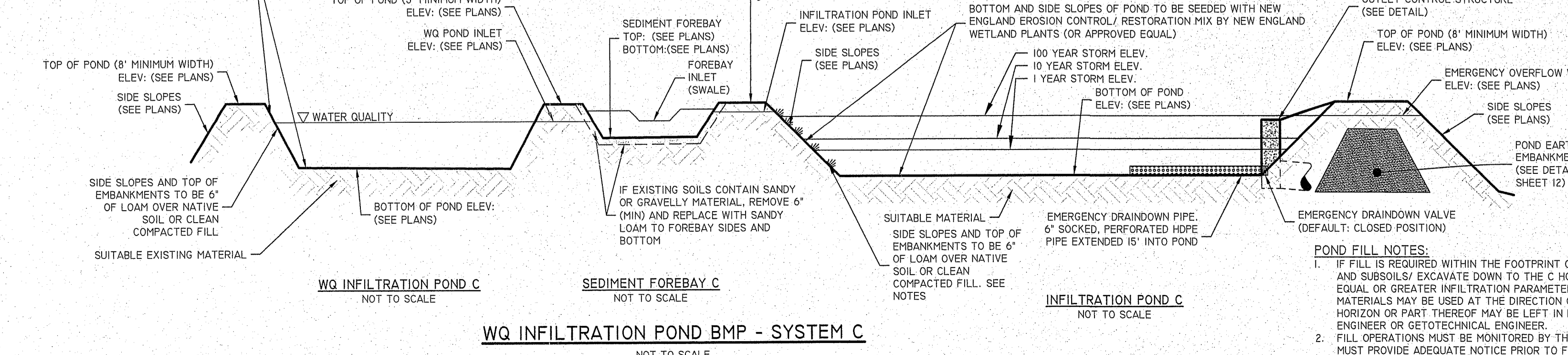
NOTE: LIMITS OF INFILTRATION POND TO BE STAKED OUT AND NOT USED AS A TEMPORARY SEDIMENT BASIN DURING CONSTRUCTION (NO CONSTRUCTION TRAFFIC ALLOWED WITHIN POND LIMITS)

DEPARTMENT OF ENVIRONMENTAL MANAGEMENT
OFFICE OF WATER RESOURCES
FRESHWATER WETLANDS PROGRAM
APPROVED WITH CONDITIONS AS SPECIFIED IN THE LETTER OF APPROVAL
DATED: MAR 23 2022 FILE # 21-0328
NO CHANGES ALLOWED WITHOUT PRIOR APPROVAL
APPROVED PLANS MUST BE AT CONSTRUCTION SITE
Martin D. Wancek

WATER QUALITY INFILTRATION POND C	WQ-C
TOP OF POND ELEVATION	491.50
100 YEAR STORM ELEVATION	490.75
10 YEAR STORM ELEVATION	490.58
1 YEAR STORM ELEVATION	489.56
WQ STORM ELEVATION	489.00
BOTTOM OF POND ELEVATION	489.00
SEASONAL HIGH GWT ELEVATION	485.0
SOIL EVALUATION	TH-1

NOTE: LIMITS OF INFILTRATION POND TO BE STAKED OUT AND NOT USED AS A TEMPORARY SEDIMENT BASIN DURING CONSTRUCTION (NO CONSTRUCTION TRAFFIC ALLOWED WITHIN FILTER LIMITS)

BOTTOM & SIDE SLOPES OF POND TO BE SEEDDED WITH NEW ENGLAND EROSION CONTROL/ RESTORATION MIX BY NEW ENGLAND WETLAND PLANTS (OR APPROVED EQUAL)



WQ INFILTRATION POND BMP - SYSTEM C

INFILTRATION POND C	IP-C
TOP OF POND ELEVATION	491.50
100 YEAR STORM ELEVATION	490.61
10 YEAR STORM ELEVATION	489.66
1 YEAR STORM ELEVATION	489.00
BOTTOM OF POND ELEVATION	489.00
SEASONAL HIGH GWT ELEVATION	481.5
SOIL EVALUATION	TH-1

BOTTOM OF POND EXCAVATION MUST BE MONITORED/INSPECTED BY SITE ENGINEER OR GEOTECHNICAL ENGINEER. CONTRACTOR MUST PROVIDE ADEQUATE NOTICE FOR INSPECTION.

NOTES:
1. LIMITS OF INFILTRATION POND MUST BE STAKED OUT AND MUST NOT BE USED AS A TEMPORARY SEDIMENT BASIN DURING CONSTRUCTION (NO CONSTRUCTION TRAFFIC ALLOWED WITHIN POND LIMITS).
2. INFILTRATION PONDS MUST NOT BE USED FOR STOCKPILING, VEHICLE PARKING OR ANY OTHER ANCILLARY STORING OF OBJECTS OR MATERIALS, TEMPORARY OR PERMANENT, AT ANY TIME.
3. INFILTRATION PONDS MUST BE ADEQUATELY PROTECTED FROM SEDIMENT LADEN RUNOFF DURING CONSTRUCTION.
4. FOLLOWING CONSTRUCTION AND STABILIZATION OF ALL UPSTREAM AREAS, IT IS THE CONTRACTOR'S RESPONSIBILITY TO REMOVE ANY AND ALL SEDIMENT FROM INFILTRATION PONDS. IF SEDIMENT REMOVAL IS REQUIRED THE CONTRACTOR MUST ALSO ROTOTILL THE ENTIRE POND BOTTOM TO A MINIMUM DEPTH OF 24" AND RE-ESTABLISH TO FINAL DESIGN GRADES AND COVER TYPES.
5. SOILS MUST BE TRACKED INTO PLACE. NO COMPACTION EQUIPMENT ALLOWED.

POND FILL NOTES:
1. IF FILL IS REQUIRED WITHIN THE FOOTPRINT OF AN INFILTRATION POND, CONTRACTOR MUST REMOVE TOP AND SUBSOILS/ EXCAVATE DOWN TO THE C HORIZON AND BACKFILL WITH SUITABLE MATERIAL THAT HAS EQUAL OR GREATER INFILTRATION PARAMETERS THAN THE EXISTING SOIL. HORIZONS BENEATH ONST MATERIALS MAY BE USED AT THE DIRECTION OF THE SITE ENGINEER OR GEOTECHNICAL ENGINEER. B HORIZON OR PART THEREOF MAY BE LEFT IN PLACE FOLLOWING ASSESSMENT AND DIRECTION BY THE SITE ENGINEER OR GEOTECHNICAL ENGINEER.
2. FILL OPERATIONS MUST BE MONITORED BY THE SITE ENGINEER OR GEOTECHNICAL ENGINEER. CONTRACTOR MUST PROVIDE ADEQUATE NOTICE PRIOR TO FILLING.

DiPrete Engineering
Two Stafford Court, Cranston, RI 02920
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Boston • Providence • Newport

DAVID A. RUSSO
No. 14305
REGISTERED PROFESSIONAL ENGINEER
CIVIL

THIS PLAN SET WAS PREPARED FOR CONSTRUCTION PURPOSES UNLESS STAMPED OTHERWISE FOR CONSTRUCTION AND STAMPED BY A REGISTERED PROFESSIONAL ENGINEER OF DIPRETE ENGINEERING. DIPRETE ENGINEERING ONLY WARRANTS PLANS ON A DIPRETE ENGINEERING STANDARD CONTRACT. DIPRETE ENGINEERING DOES NOT WARRANT PLANS BY ANY OTHER PARTY. THE CONTRACTOR IS RESPONSIBLE FOR ALL OF THE REASONS FOR NON-CONFORMANCE IN THE IMPLEMENTATION OF THIS PLAN AND FOR ANY DAMAGES, INCLUDING BUT NOT LIMITED TO, PERSONAL INJURY, PROPERTY DAMAGE, AND ENVIRONMENTAL DAMAGE, ARISING FROM THE USE OF THIS PLAN AND THE CONTRACTOR'S NEGLIGENCE OR NEGLIGENCE OF ANY OTHER PARTY. SEE UTILITY NOTES ON SHEET 3.

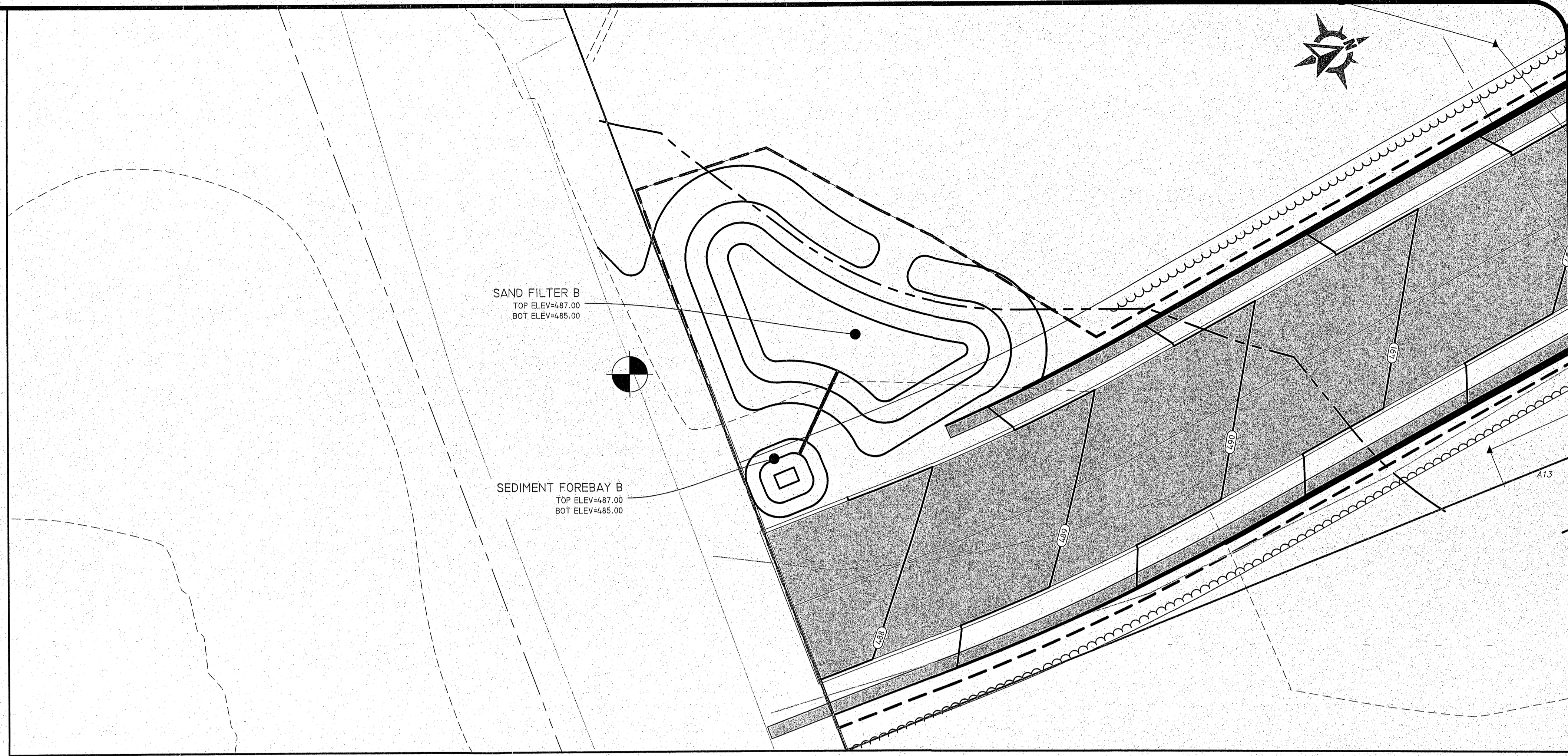
NO.	DATE	DESCRIPTION	BY	DESIGN BY
1	8-15-2022	TRIGGER RESPONSE TO COMMENTS	SDM	SDM
2	8-22-2022	REVISIONS AND CORRECTIONS	SDM	SDM
3	10-3-2022	REVISIONS AND CORRECTIONS	SDM	SDM
4	10-3-2022	REVISIONS AND CORRECTIONS	SDM	SDM

POND DETAILS-1
LAPHAM FARM ROAD
BURRILLVILLE, RHODE ISLAND
PREPARED FOR:
JAMES, JUDITH, JOSEPH AND MURIEL FARRELL
P.O. BOX, CHEPACHET, RHODE ISLAND 02814

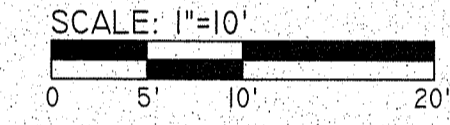
Environmental Science Company
AUG 10 2022
Office of Water Resources

SHEET 10 OF 12

Z:\SHEKIN\PROJECTS\2315-001 LAPHAM FARM ROAD\AUTOCAD DRAWINGS\2315-001-PLAN.DWG PLOTTED: 8/16/2022

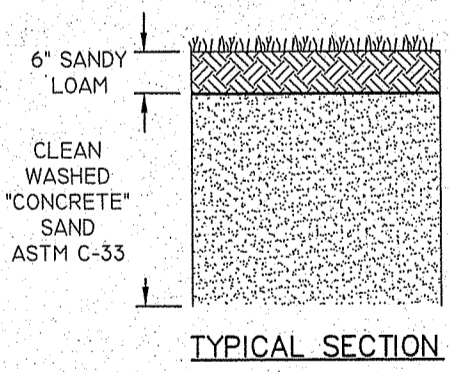


POND COMPLEX B

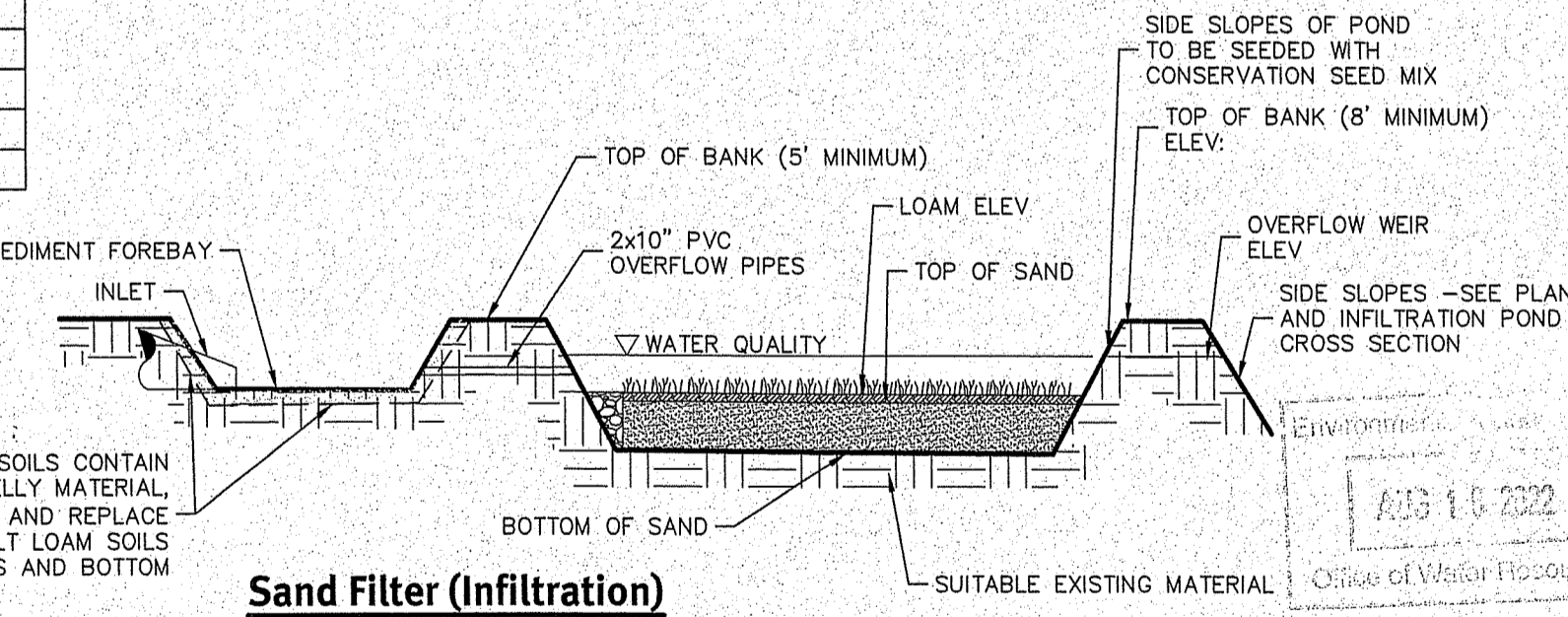


DESCRIPTION	SEDIMENT FOREBAY B	SAND FILTER B
AVAILABLE STORAGE ELEVATION	487.00	487.00
100 YEAR STORM ELEVATION	486.74	486.27
25 YEAR STORM ELEVATION	486.57	486.21
10 YEAR STORM ELEVATION	486.49	486.17
2 YEAR STORM ELEVATION	486.37	486.10
1 YEAR STORM ELEVATION	486.31	486.05
OUTLET ELEVATION	486.00	486.00
TOP OF GRASS	-	485.00
SAND & LOAM DEPTH	-	2.00
BOTTOM OF SAND LAYER	-	483.00*
SEASONAL HIGH GWT ELEVATION	485.00	485.00
SOIL EVALUATION	TH-1	TH-1

*SAND FILTER B IS DESIGNED TO THE MAXIMUM EXTENT POSSIBLE DURING THE SEASONAL HIGH GROUNDWATER TABLE TO ALLOW WATER TO OVERFLOW TO THE ADJACENT WETLAND AT TIMES OF THE YEAR WITHOUT THE SEASONAL HIGH GROUNDWATER TABLE SAND FILTER B SAND MEDIA SHALL FUNCTION PROPERLY.



IF EXISTING SOILS CONTAIN SANDY OR GRAVELLY MATERIAL, REMOVE 6" (MIN) AND REPLACE WITH LOAM OR SILT LOAM SOILS TO FOREBAY SIDES AND BOTTOM



Sand Filter (Infiltration)
NOT TO SCALE

THIS PLAN SET MUST NOT BE USED FOR CONSTRUCTION PURPOSES UNLESS STAMPED, SIGNED AND SEALED BY A REGISTERED PROFESSIONAL ENGINEER AS SHOWN BY THE SEAL AND SIGNATURE OF THE ENGINEER.

DIPIRETE ENGINEERING ONLY WARRANTS PLANS ON A DIPIRETE PROFESSIONAL ENGINEER OF DIPIRETE ENGINEERING. DIPIRETE ENGINEERING DOES NOT WARRANT PLANS BY ANY OTHER PARTY. METHOD, SAFETY, PRECAUTIONS AND REQUIREMENTS, AND OSHA COMPLIANCE IN THE IMPLEMENTATION OF THIS PLAN AND EXISTING UTILITIES SHOWN ON THIS PLAN ARE APPROXIMATE. ONLY DIPIRETE ENGINEERING ASSUMES NO RESPONSIBILITY FOR THE ACCURACY OF EXISTING UTILITIES. SEE UTILITY NOTES ON SHEET 3.

NO.	DATE	DESCRIPTION	BY:
3	8-16-2022	REBERT RESPONSE TO COMMENTS	SDM
4	8-16-2022	REBERT RESPONSE TO COMMENTS	SDM
5	8-16-2022	REBERT RESPONSE TO COMMENTS	SDM
6	8-16-2022	REBERT RESPONSE TO COMMENTS	SDM
7	8-16-2022	REBERT RESPONSE TO COMMENTS	SDM
8	8-16-2022	REBERT RESPONSE TO COMMENTS	SDM
9	8-16-2022	REBERT RESPONSE TO COMMENTS	SDM
10	8-16-2022	REBERT RESPONSE TO COMMENTS	SDM
11	8-16-2022	REBERT RESPONSE TO COMMENTS	SDM
12	8-16-2022	REBERT RESPONSE TO COMMENTS	SDM
13	8-16-2022	REBERT RESPONSE TO COMMENTS	SDM
14	8-16-2022	REBERT RESPONSE TO COMMENTS	SDM
15	8-16-2022	REBERT RESPONSE TO COMMENTS	SDM
16	8-16-2022	REBERT RESPONSE TO COMMENTS	SDM
17	8-16-2022	REBERT RESPONSE TO COMMENTS	SDM
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19	8-16-2022	REBERT RESPONSE TO COMMENTS	SDM
20	8-16-2022	REBERT RESPONSE TO COMMENTS	SDM
21	8-16-2022	REBERT RESPONSE TO COMMENTS	SDM
22	8-16-2022	REBERT RESPONSE TO COMMENTS	SDM
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49	8-16-2022	REBERT RESPONSE TO COMMENTS	SDM
50	8-16-2022	REBERT RESPONSE TO COMMENTS	SDM

DESIGN BY: DAR
DRAWN BY: SDM

RI DEPARTMENT OF ENVIRONMENTAL MANAGEMENT
OFFICE OF WATER RESOURCES
FRESHWATER WETLANDS PROGRAM

APPROVED WITH CONDITIONS AS SPECIFIED IN THE LETTER OF APPROVAL

DATED: MAR 23 2023 FILE #: 21-0328

NO CHANGES ALLOWED WITHOUT PRIOR APPROVAL
APPROVED PLANS MUST BE AT CONSTRUCTION SITE

Martin D. Wencel

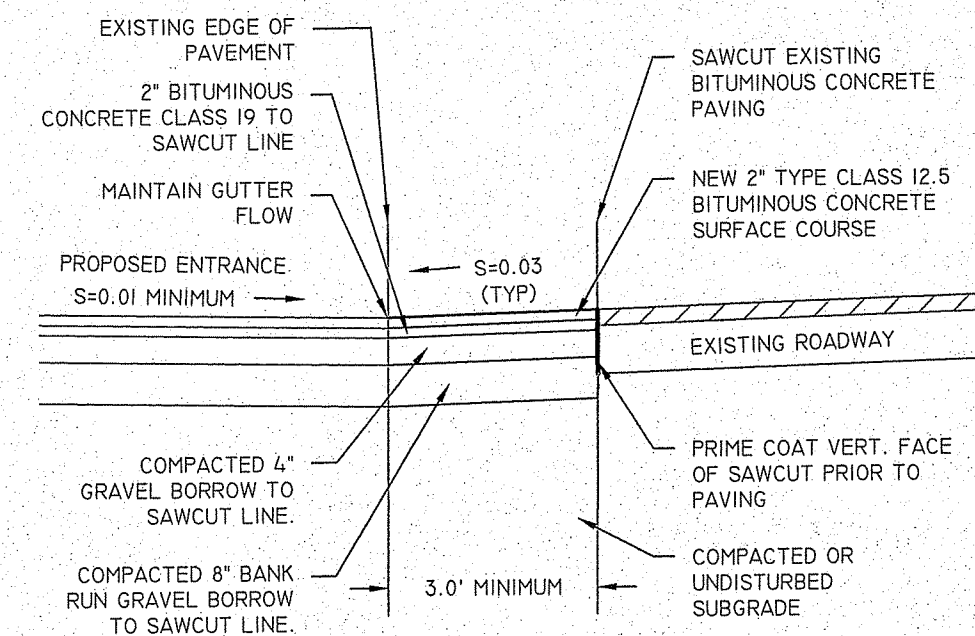
POND DETAILS-2
LAPHAM FARM ROAD
BURLINGHAM, RHODE ISLAND
PREPARED FOR:
JAMES, JUDITH, JOSEPH AND MURIEL FARRELL
P.O. 805, CHEPACHET, RHODE ISLAND 02814

DiPrete Engineering
Two Stafford Court Cranston, RI 02920
Tel: 401-943-1000 Fax: 401-664-6006 www.diprete-eng.com
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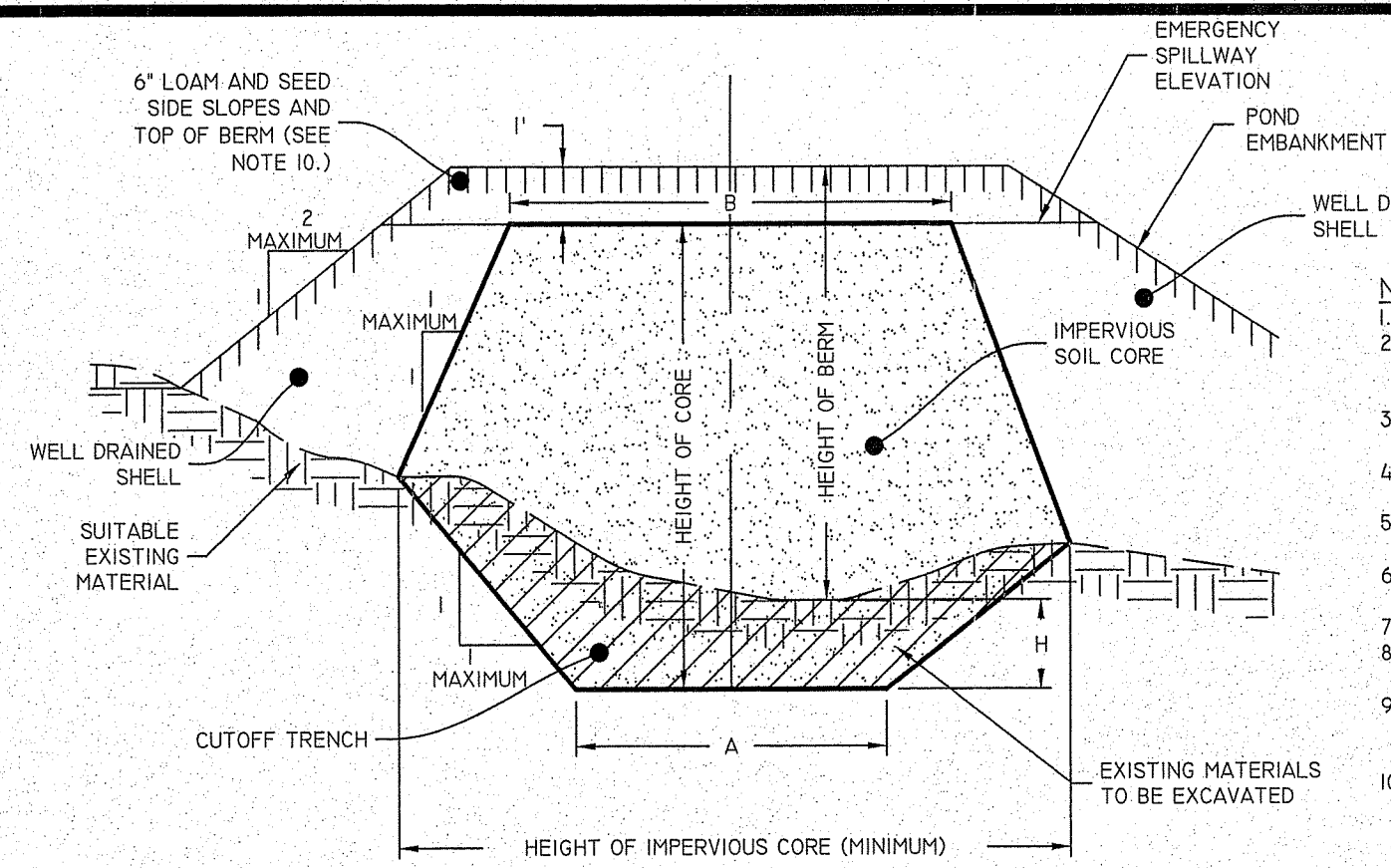
DAVID A. RUSSO
No. 1475
REGISTERED PROFESSIONAL ENGINEER
CIVIL

DE: JOB NO: 230404 COPYRIGHT 2022 BY DIPIRETE ENGINEERING ASSOCIATES, INC.

NOTE:
MINIMUM COMPACTION FOR GRAVEL SUBBASE OR SUBGRADE: 95% MODIFIED PROCTOR.



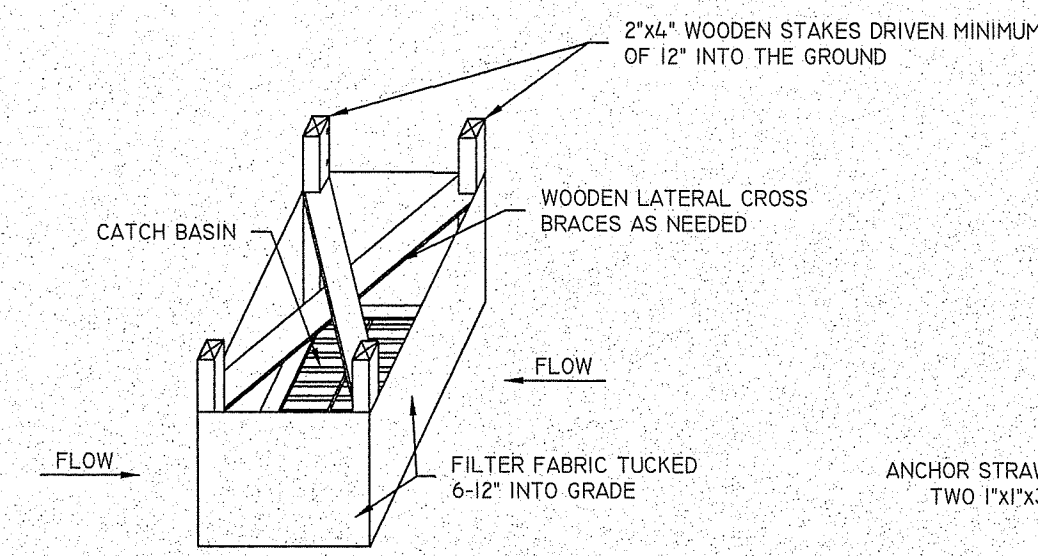
ENTRANCE ACCESS SAWCUT & MATCH
NOT TO SCALE



POND EARTHEN EMBANKMENT
NOT TO SCALE

BERM HEIGHT (FT)	TOP WIDTH OF CORE - B (FT)
0-6.5	8.2
6.6-9.8	9.2
9.9-13.1	9.8
13.2-16.4	10.8
16.5-19.7	11.5

- NOTES:
- IMPERVIOUS SOIL CORE TO BE PROVIDED FOR ALL POND EMBANKMENTS.
 - IMPERVIOUS SOIL CORE TO BE CONSTRUCTED OF A MATERIAL WITH A MINIMUM OF 55% PASSING THE #200 SIEVE AND A MAXIMUM PERMEABILITY OF 0.00005 CM/S.
 - WELL DRAINED SHELL TO BE CONSTRUCTED OF GRAVEL AND/OR SAND WITH LESS THAN 5% PASSING THE #200 SIEVE.
 - MINIMUM DEPTH OF CUTOFF TRENCH (H) SHALL BE 3/4 OF THE TOTAL BERM HEIGHT.
 - THE IMPERVIOUS CORE AT A MINIMUM SHALL EXTEND UP BOTH ABUTMENTS TO THE EMERGENCY SPILLWAY ELEVATION.
 - THE MINIMUM BOTTOM WIDTH (A) SHALL BE 5'-8", AND WIDE ENOUGH TO PERMIT OPERATION OF COMPACTION EQUIPMENT.
 - SIDE SLOPES OF THE TRENCH SHALL BE NO STEEPER THAN 1:1.
 - IF BEDROCK IS ENCOUNTERED BELOW THE DAM THE CUT OFF TRENCH CAN BE REDUCED TO 1'x1' (A)X(H).
 - COMPACTION REQUIREMENTS FOR THE SHELL AND IMPERVIOUS CORE TO BE 95% OF THE MODIFIED PROCTOR PER ASTM D1557. ALL FILL TO BE PLACED IN LIFTS NOT EXCEEDING 12".
 - SIDE SLOPE OF POND EMBANKMENT TO BE 2:1 MAXIMUM. IF SIDE SLOPES ARE STEEPER THAN 3:1, SLOPE PROTECTION MUST BE UTILIZED ON POND EMBANKMENT. THIS INCLUDES, BUT NOT LIMITED TO, RIPRAP AND EROSION CONTROL MATS.
 - THE IMPERVIOUS CORE SHALL BE KEPT FREE FROM STANDING WATER DURING THE BACKFILL OPERATION.
 - ALL EMBANKMENT INSTALLATIONS TO BE SUPERVISED BY A GEOTECHNICAL ENGINEER.
 - ANY PROPOSED DEVIATIONS FROM THIS DETAIL MUST BE DESIGNED BY A GEOTECHNICAL ENGINEER AND SUBMITTED TO THE SITE ENGINEER (AND AHJ WHERE REQUIRED) FOR REVIEW PRIOR TO CONSTRUCTION.



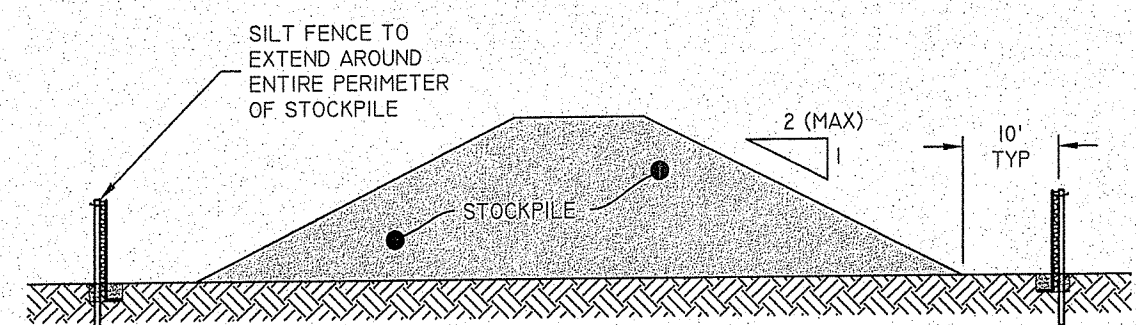
SILT FENCE INSTALLATION FOR CATCH BASINS AT LOW POINTS

- NOTES:
- STORMWATER INLETS WHICH DO NOT DISCHARGE TO SEDIMENT TRAPS OR BASINS MUST BE PROTECTED UNTIL THE TRIBUTARY AREAS ARE STABILIZED.
 - SEDIMENT MUST BE REMOVED FROM INLET PROTECTION AFTER EACH STORM.
 - REFER TO LONG TERM/SHORT TERM MAINTENANCE NOTES AND OPERATION & MAINTENANCE PLAN FOR TIMING OF PLACEMENT AND REMOVAL OF EROSION CONTROL ELEMENTS.

CATCH BASIN EROSION CONTROL
NOT TO SCALE

STRAW BALE FILTER INSTALLATION FOR CATCH BASINS AT LOW POINTS

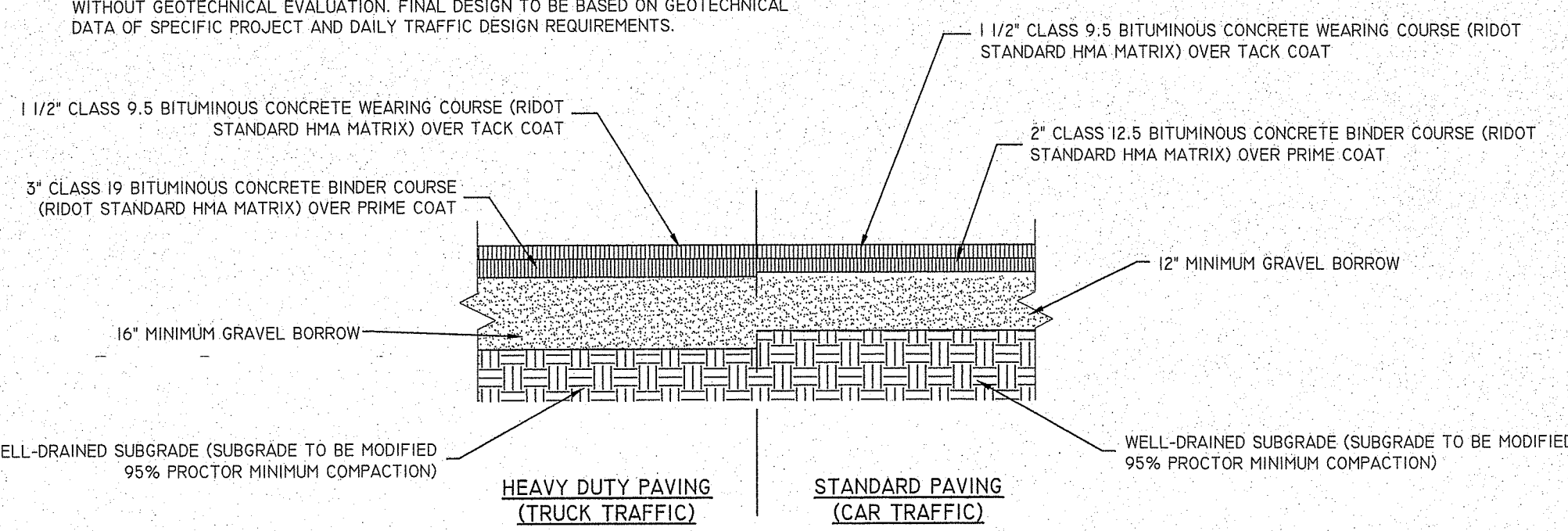
Martin D. Wenczek
RI DEPARTMENT OF ENVIRONMENTAL MANAGEMENT
OFFICE OF WATER RESOURCES
FRESHWATER WETLANDS PROGRAM
APPROVED WITH CONDITIONS AS SPECIFIED IN THE LETTER OF APPROVAL
DATED: MAR 23 2022 FILE # 21-0238
NO CHANGES ALLOWED WITHOUT PRIOR APPROVAL
APPROVED PLANS MUST BE AT CONSTRUCTION SITE



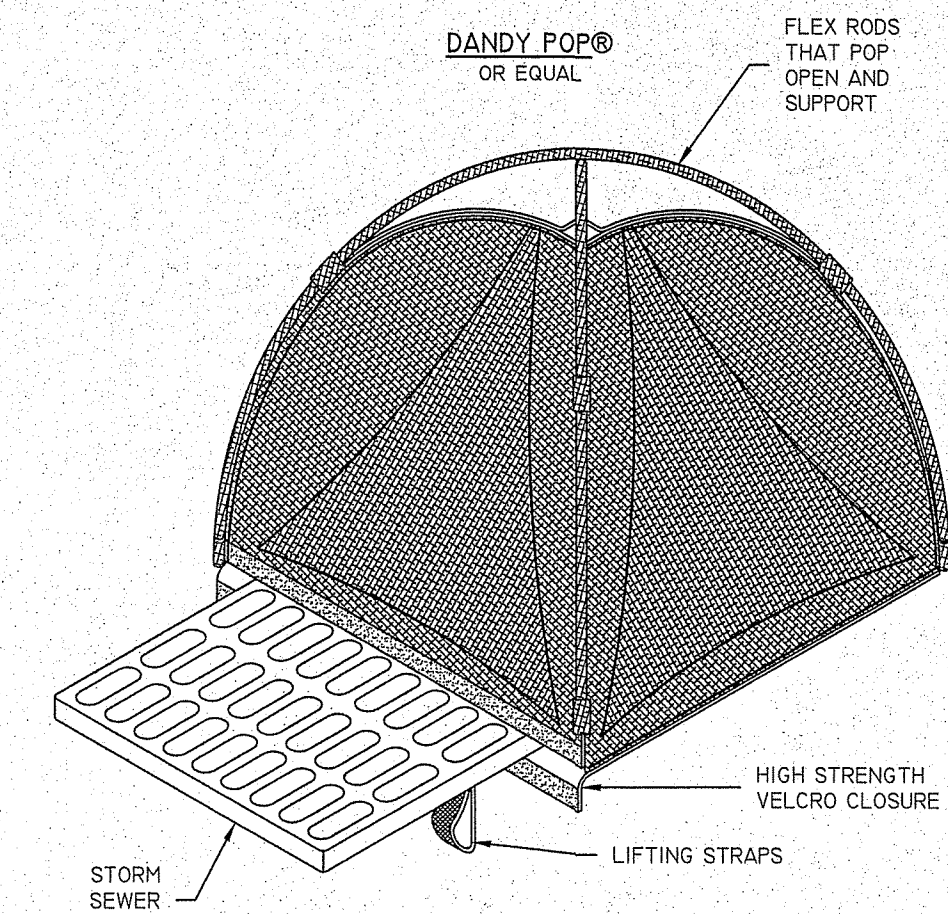
- NOTES:
- ALL STOCKPILES MUST BE INSTALLED AND MAINTAINED IN ACCORDANCE WITH SECTION 3 'STOCKPILE AND STAGING AREA MANAGEMENT' OF THE RHODE ISLAND SOIL EROSION AND SEDIMENT CONTROL HANDBOOK (CURRENT EDITION).
 - DIVERT ALL STORMWATER AWAY FROM STOCKPILES.
 - SOIL STOCKPILES THAT ARE NOT TO BE USED WITHIN 30 DAYS MUST BE SEEDED AND MULCHED IMMEDIATELY AFTER FORMATION OF THE STOCKPILE WITH SEED MIX COMPATIBLE WITH THE SOIL TYPE.
 - STOCKPILE AND SILT FENCE MUST BE INSPECTED AT LEAST ONCE PER WEEK AND AFTER RAIN EVENTS IN EXCESS OF 1" OF RAINFALL. REPAIR/REPLACE SILT FENCE (AND STOCKPILE COVERS WHERE APPLICABLE) AS NEEDED TO KEEP THEM FUNCTIONING ADEQUATELY.
 - SEDIMENT TRAPPED BY SILT FENCES MUST BE REMOVED AND PROPERLY DISPOSED OF WHENEVER SIGNIFICANT ACCUMULATION OCCURS.

STOCKPILE PROTECTION
NOT TO SCALE

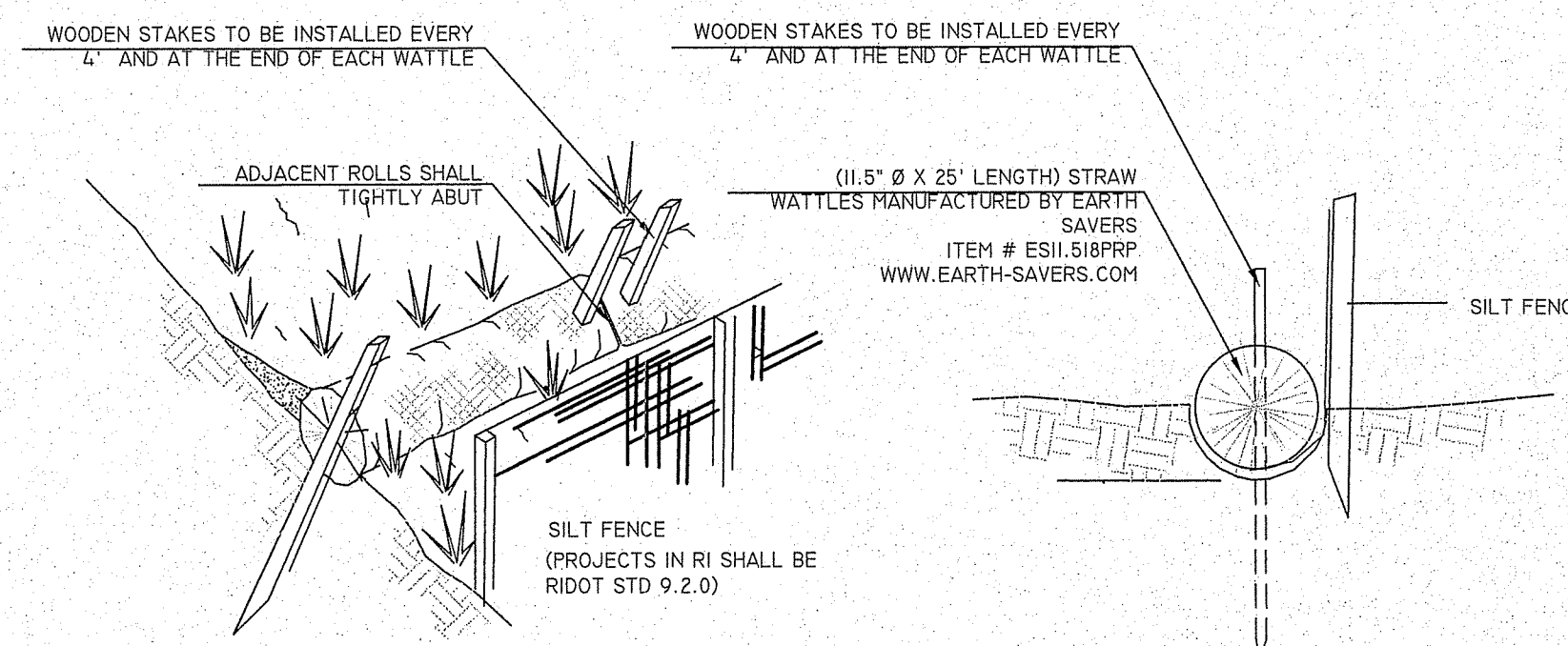
NOTE:
THIS PAVEMENT SECTION DETAIL REFLECTS ASSUMED MINIMUM REQUIREMENTS WITHOUT GEOTECHNICAL EVALUATION. FINAL DESIGN TO BE BASED ON GEOTECHNICAL DATA OF SPECIFIC PROJECT AND DAILY TRAFFIC DESIGN REQUIREMENTS.



TYPICAL PAVEMENT SECTION
NOT TO SCALE

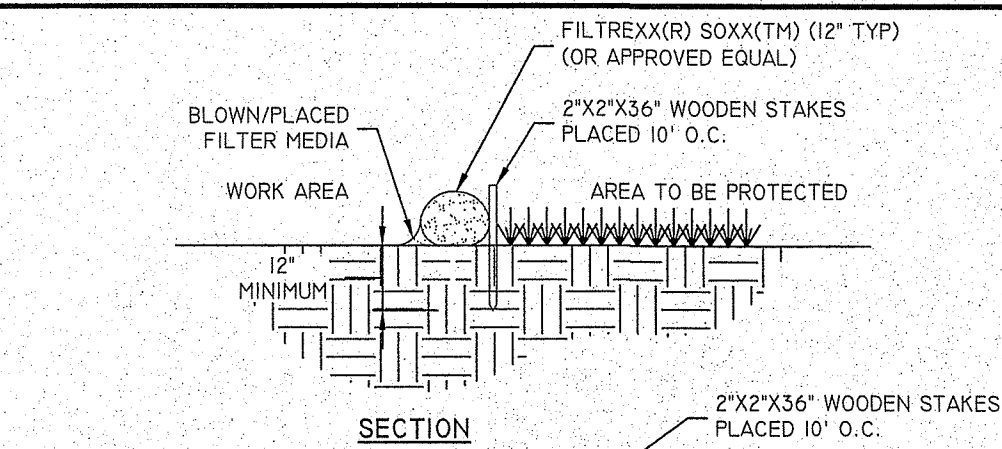


INLET SEDIMENT CONTROL DEVICES
NOT TO SCALE



- NOTES:
- EROSION CONTROL BARRIER TO BE INSTALLED PER MANUFACTURER RECOMMENDATIONS AND SPECIFICATIONS.
 - FOR SOFT SOILS, DIG A 3 TO 5 INCH TRENCH FOR HARD SOILS, DIG A 2 TO 3 INCH TRENCH.
 - INSTALL WOOD STAKES FOR EVERY 4' (MAX) OF STRAW WATTLE, AS WELL AS ADDITIONAL WOOD STAKE ON EACH END OF EACH STRAW WATTLE.
 - MINIMUM WOOD STAKE DIMENSIONS TO BE 1"x2"x24" (SOFT SOIL) AND 1"x2"x18" (HARD SOIL).

Silt Fence/Straw Wattle Sediment Barrier
NOT TO SCALE

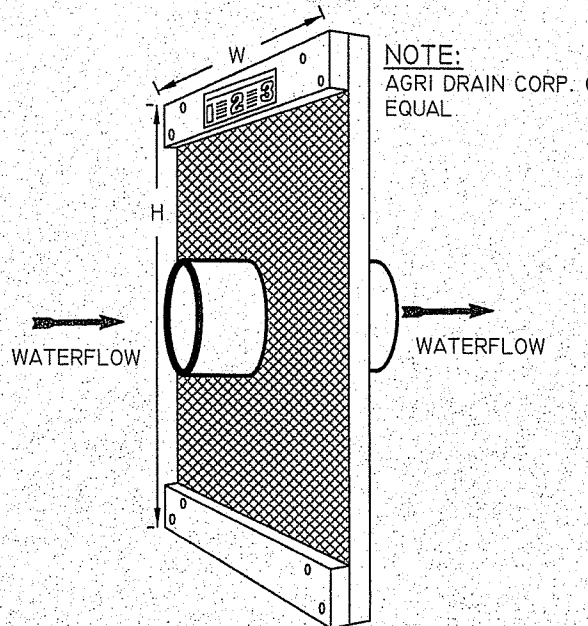


- NOTES:
- ALL MATERIAL TO MEET FILTREXX(R) SPECIFICATIONS
 - FILTER MEDIA(TM) FILL TO MEET APPLICATION REQUIREMENTS
 - COMPOST MATERIAL TO BE DISPERSED ON SITE, AS DETERMINED BY ENGINEER
 - STAKES ARE NOT TO BE USED IN PAVEMENT AREAS
 - SELF WEIGHT OF FILTREXX SYSTEM IS ADEQUATE TO PREVENT SYSTEM MOVEMENT ONCE POSITIONED ALONG AREA SHOWN ON THE PLANS
 - CONTRACTOR TO PLACE FILTREXX SEDIMENT CONTROL OR APPROVED EQUAL AROUND ALL CURB INLET LOCATIONS AS SPECIFIED ON PLANS.

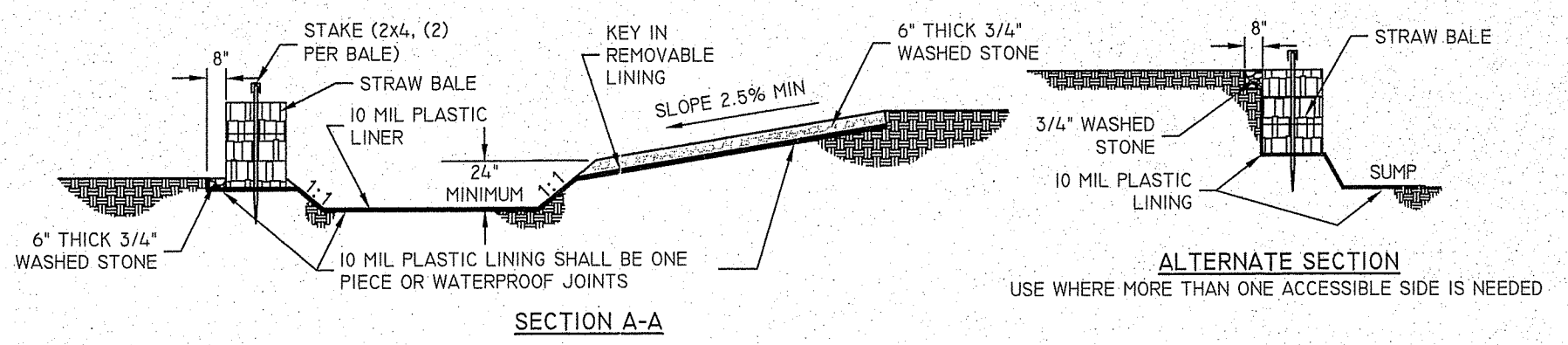
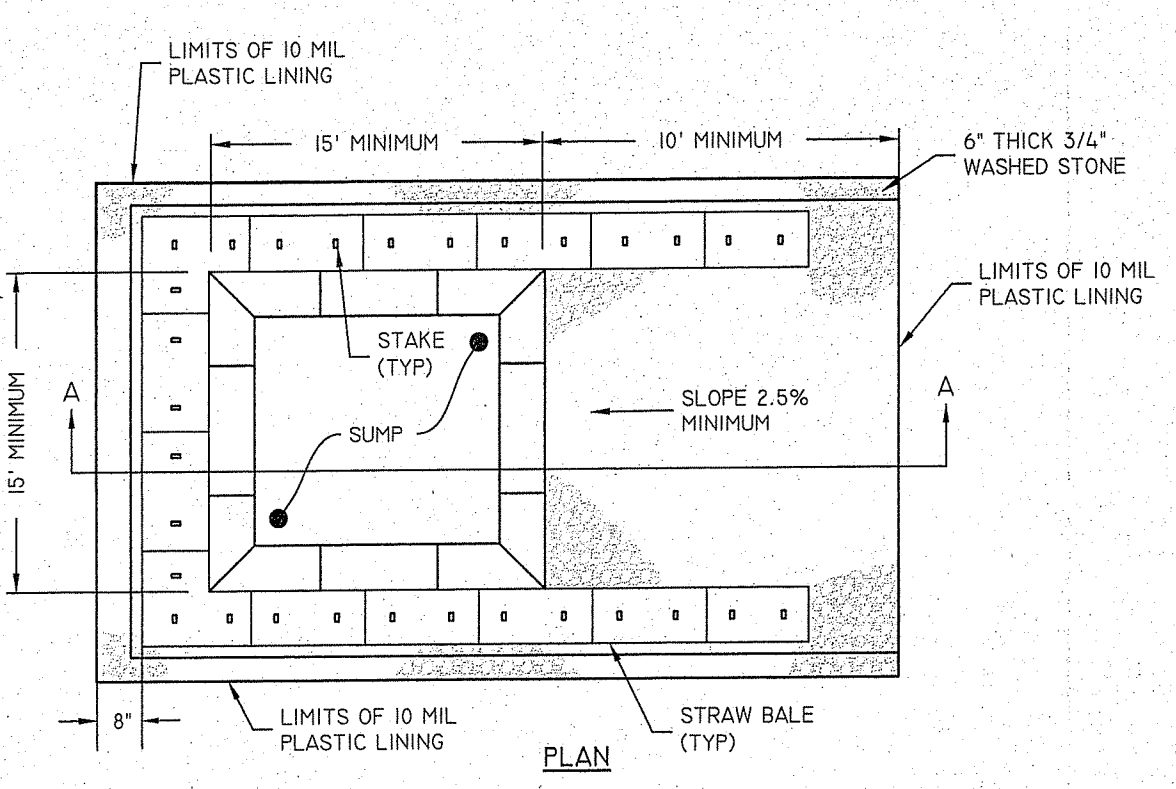
FILTREXX SEDIMENT CONTROL (OR APPROVED EQUAL)
NOT TO SCALE

LOCATION	WIDTH	HEIGHT	QUANTITY
INFILTRATION POND C	3.0	3.0	1

- INSTALLATION NOTES:
- UNROLL THE ANTI-SEEP COLLAR AND ALIGN THE BOARDS TO FORM A SQUARE. ATTACH METAL BRACKETS TO THE CORNER OF THE BOARDS WITH THE SCREWS PROVIDED. ATTACH THE RUBBER TO THE FRAME WITH THE NAILS PROVIDED.
 - CUT A ROUND HOLE IN THE CENTER OF THE RUBBER THAT IS SMALLER THAN THE PIPE SIZE (APPROX. 33% SMALLER). THIS WILL ALLOW THE RUBBER TO STRETCH OVER THE PIPE WHEN THE ANTI-SEEP IS INSTALLED ON THE PIPE. THIS WILL PROVIDE A TIGHT SEAL BETWEEN THE PIPE AND THE ANTI-SEEP COLLAR. NOTE: CUTTING AN "X" OR SLIT WILL CAUSE THE RUBBER TO TEAR.
 - SLIP THE PIPE THROUGH THE ANTI-SEEP COLLAR. INSPECT THE SEAL BETWEEN THE PIPE AND THE ANTI-SEEP COLLAR. CAREFULLY BACKFILL, AND COMPACT WITH SUITABLE SOIL.



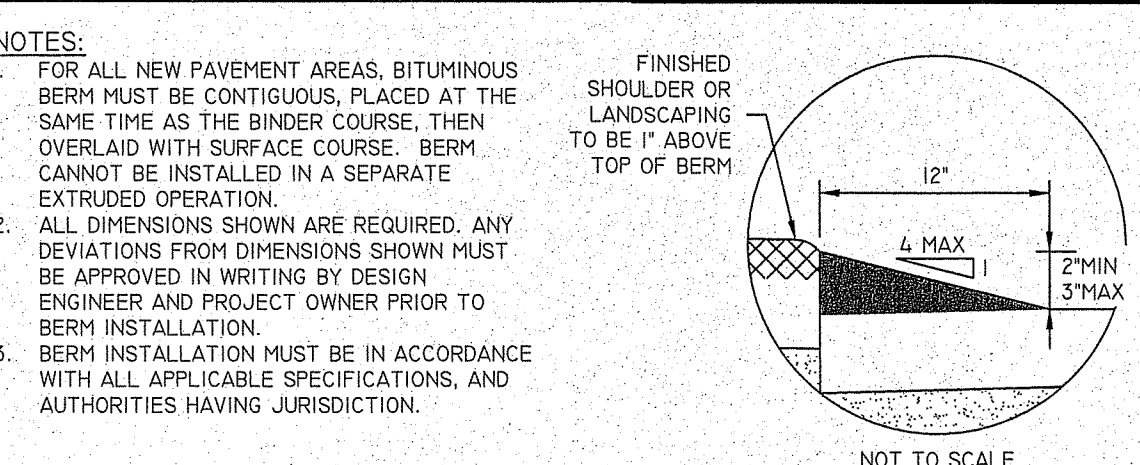
ANTI-SEEP COLLAR
NOT TO SCALE



- NOTES:
- PIT IS SPECIFICALLY DESIGNATED, DIKED AND IMPERVIOUS CONTAINMENT TO PREVENT CONTACT BETWEEN CONCRETE WASH AND STORMWATER.
 - WASH WATER SHALL NOT BE ALLOWED TO FLOW TO SURFACE WATER.
 - FACILITY MUST HOLD SUFFICIENT VOLUME TO CONTAIN CONCRETE WASTE WITH A MINIMUM FREEBOARD OF 12".
 - FACILITY SHALL NOT BE FILLED BEYOND 95% CAPACITY UNLESS A NEW FACILITY IS CONSTRUCTED.
 - SAWCUT PORTLAND CEMENT CONCRETE, RESIDUE FROM SAWCUT AND GRINDING TO BE DISPOSED OF IN THE PIT.
 - CONCRETE WASHOUTS SHALL BE LOCATED A MINIMUM OF 100' FROM DRAINAGE WAYS, INLETS, AND SURFACE WATERS.
 - MANUFACTURED CONCRETE WASHOUT DEVICES MAY BE USED IF REMOVED FROM THE SITE WHEN 95% FULL CAPACITY.

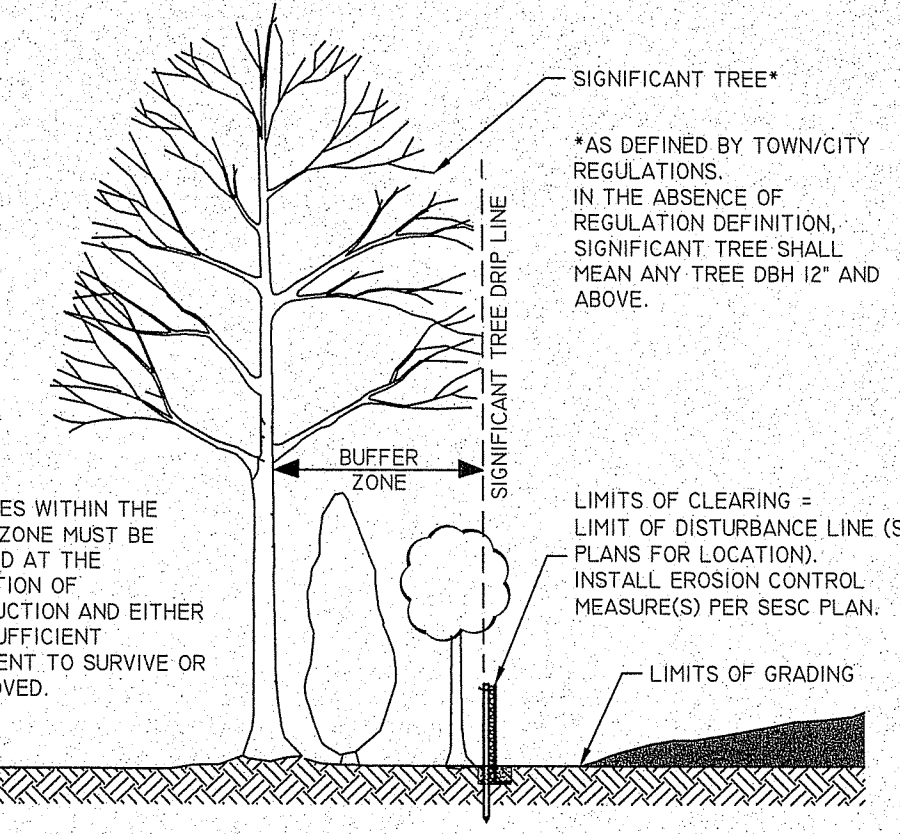
CONCRETE WASHOUT AREA
NOT TO SCALE

WASHOUT SIGN



- NOTES:
- FOR ALL NEW PAVEMENT AREAS, BITUMINOUS BERM MUST BE CONTIGUOUS, PLACED AT THE SAME TIME AS THE BINDER COURSE, THEN OVERLAP WITH SURFACE COURSE. BERM CANNOT BE INSTALLED IN A SEPARATE EXTRUDED OPERATION.
 - ALL DIMENSIONS SHOWN ARE REQUIRED. ANY DEVIATIONS FROM DIMENSIONS SHOWN MUST BE APPROVED IN WRITING BY DESIGN ENGINEER AND PROJECT OWNER PRIOR TO BERM INSTALLATION.
 - BERM INSTALLATION MUST BE IN ACCORDANCE WITH ALL APPLICABLE SPECIFICATIONS, AND AUTHORITIES HAVING JURISDICTION.

BITUMINOUS BERM
NOT TO SCALE



LIMIT OF DISTURBANCE AT VEGETATION
NOT TO SCALE

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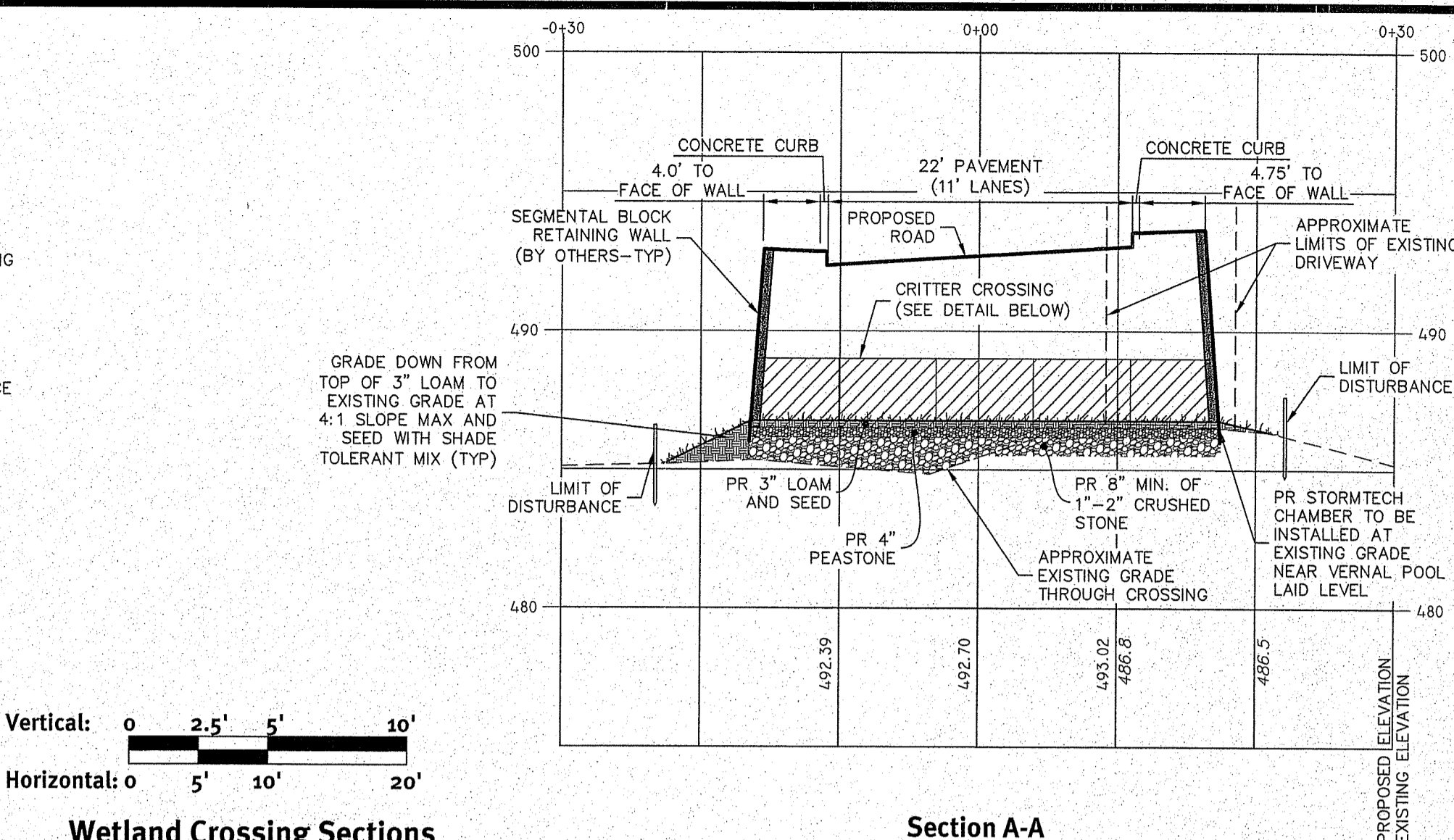
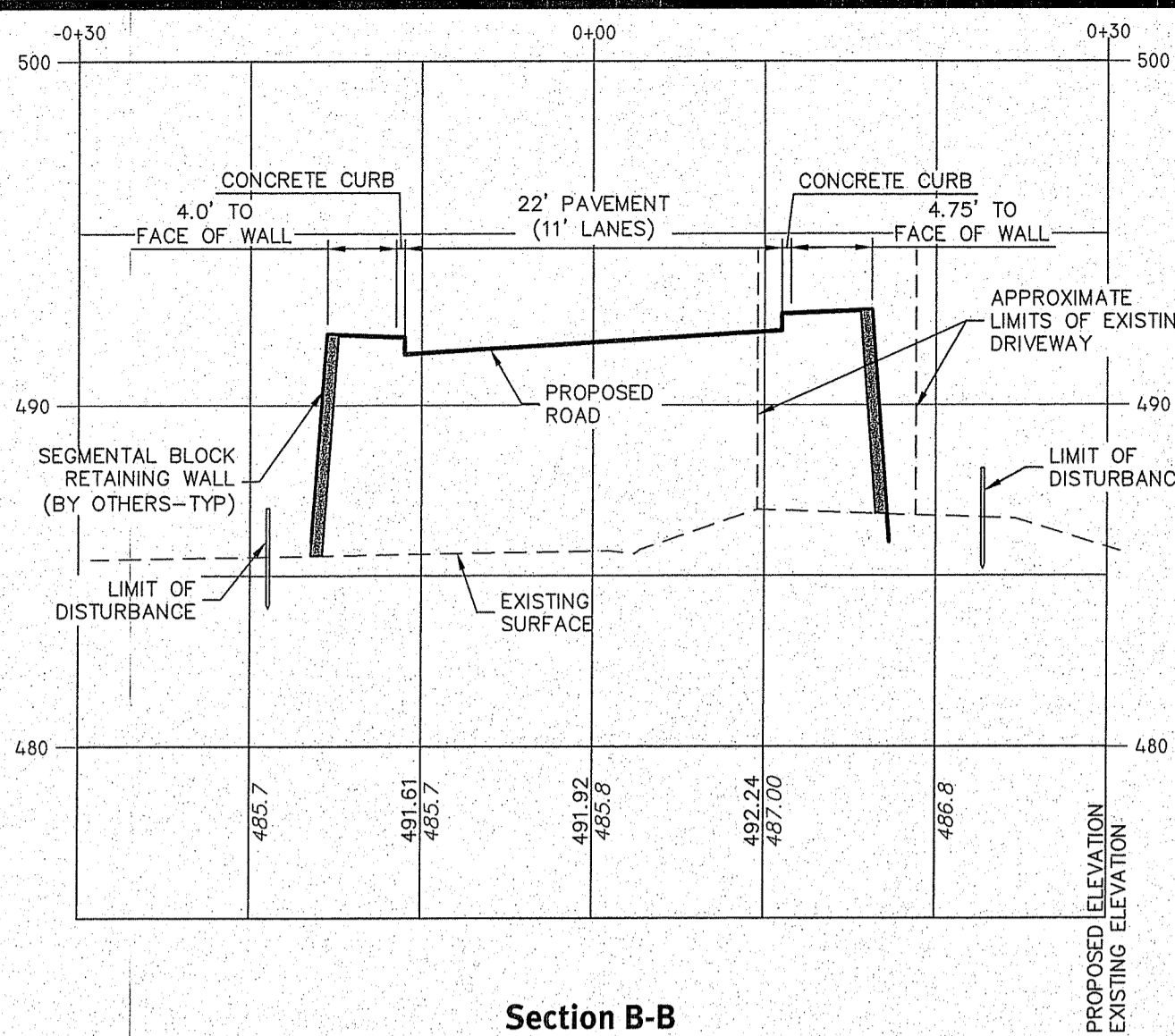
DAVID A. RUSSO
No. 4355
REGISTERED PROFESSIONAL ENGINEER CIVIL

THE PLAN SET MUST BE USED AS SHOWN. NO CONSTRUCTION CHANGES OR DEVIATIONS ARE ALLOWED UNLESS STAMPED, SIGNED AND DATED BY THE REGISTERED PROFESSIONAL ENGINEER OF DIPRETE ENGINEERING.

NO.	DATE	DESCRIPTION	BY:	DATE
1	8-15-2022	RI DEPT RESPONSE TO COMMENTS	SDM	
2	8-15-2022	RI DEPT RESPONSE TO COMMENTS	SDM	
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9	8-15-2022	RI DEPT RESPONSE TO COMMENTS	SDM	
10	8-15-2022	RI DEPT RESPONSE TO COMMENTS	SDM	

DESIGN BY: DAR
DRAWN BY: SDM

DETAIL SHEET-1
LAPHAM FARM ROAD
ASSessor'S PLAT 211 LOT 2
BURLINGHAM, RHODE ISLAND
PREPARED FOR:
JAMES, JUDITH, JOSEPH AND MURIEL FARRELL
P.O. BOX, CHEPACHET, RHODE ISLAND 02814



GENERAL NOTES:

- THE TEMPORARY SEDIMENT TRAP SHALL MEET ALL REQUIREMENTS FOR TEMPORARY SEDIMENT TRAPS OUTLINED IN THE RHODE ISLAND SOIL EROSION AND SEDIMENT CONTROL HANDBOOK (LATEST REVISION) SECTION SIX: SEDIMENT CONTROL MEASURES
- THE TEMPORARY SEDIMENT TRAP MUST PROVIDE A STORAGE VOLUME FOR ONE INCH OF RUNOFF FROM THE CONTRIBUTING AREA. HALF OF THE STORAGE MUST BE PROVIDED IN THE FORM OF WET STORAGE. SEE DETAIL BELOW SECTION 6 OF THE RISESCH.
- ALL CUT AND FILL SLOPES MUST BE 2:1 OR FLATTER EXCEPT FOR THE EXCAVATED WET STORAGE AREA WHERE SLOPES MUST NOT EXCEED 1.5:1.
- THE OUTLET MUST BE LOCATED AT THE MOST DISTANT HYDRAULIC POINT FROM THE INLET.
- THE OUTLET CONSISTS OF A PERVIOUS STONE DIKE WITH A CORE OF MODIFIED RIPRAP AND FACED ON THE UPSTREAM SIDE WITH STONE.
- TEMPORARY SEDIMENT TRAPS MUST OUTLET ONTO STABILIZED GROUND.
- MAXIMUM HEIGHT OF A TEMPORARY SEDIMENT TRAP EMBANKMENT IS LIMITED TO 5 FEET (BOTTOM OF DRY STORAGE TO TOP OF EMBANKMENT). TOTAL EMBANKMENT HEIGHT MUST NOT EXCEED 6 FEET (BOTTOM OF WET STORAGE TO TOP OF EMBANKMENT).
- SIDE SLOPES OF THE EMBANKMENT MUST BE 2:1 OR FLATTER.
- MODIFIED RIPRAP SHALL MEET THE REQUIREMENTS OF RIDOT STANDARD SPECIFICATIONS FOR ROAD AND BRIDGE CONSTRUCTION SUBSECTION M.10.03.2.
- FILTER STONE SHALL MEET THE REQUIREMENTS OF RIDOT STANDARD SPECIFICATIONS FOR ROAD AND BRIDGE CONSTRUCTION SUBSECTION M.01.03 TABLE 1, COLUMN V FILTER STONE.

INSPECTION, MAINTENANCE, AND REMOVAL REQUIREMENTS:

- INSTALL 'SEDIMENT STORAGE' STAKE WITH A MARKER AT ONE HALF OF THE WET STORAGE VOLUME.
- INSPECT THE TEMPORARY SEDIMENT TRAP AT LEAST ONCE A WEEK AND WITHIN 24 HOURS OF THE END OF A STORM WITH A RAINFALL AMOUNT OF 0.25 INCH OR GREATER.
- CHECK THE OUTLET TO ENSURE THAT IT IS STRUCTURALLY SOUND AND HAS NOT BEEN DAMAGED BY EROSION OR CONSTRUCTION EQUIPMENT.
- CHECK FOR SEDIMENT ACCUMULATION AND FILTRATION PERFORMANCE.
- WHEN SEDIMENTS HAVE ACCUMULATED TO ONE HALF THE MINIMUM REQUIRED VOLUME OF THE WET STORAGE, DEWATER THE TRAP AS NEEDED, REMOVE SEDIMENTS AND RESTORE THE TRAP TO ITS ORIGINAL DIMENSIONS.
- DISPOSE OF THE SEDIMENT REMOVED FROM THE BASIN IN A SUITABLE AREA AS DESIGNATED BY THE GEOTECHNICAL ENGINEER.
- THE TEMPORARY SEDIMENT TRAP MAY BE REMOVED AFTER THE CONTRIBUTING DRAINAGE AREA IS STABILIZED.

INSTALLATION NOTES:

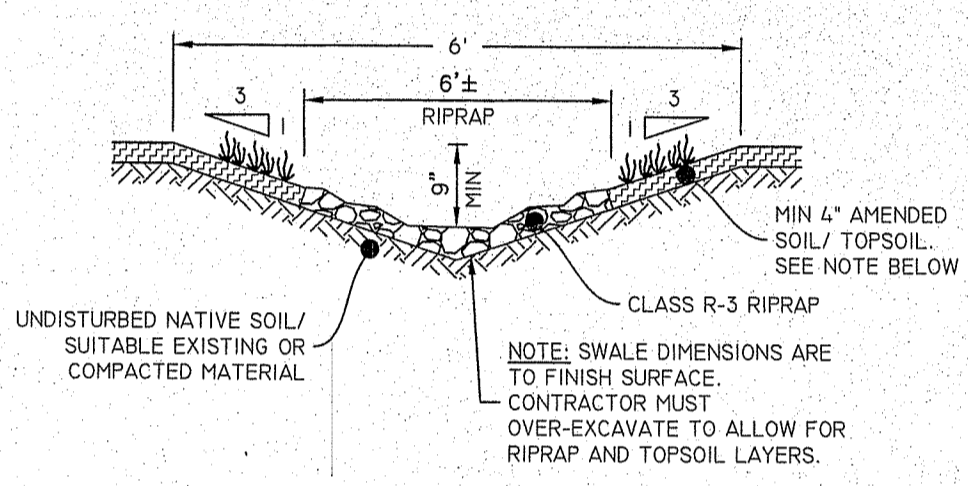
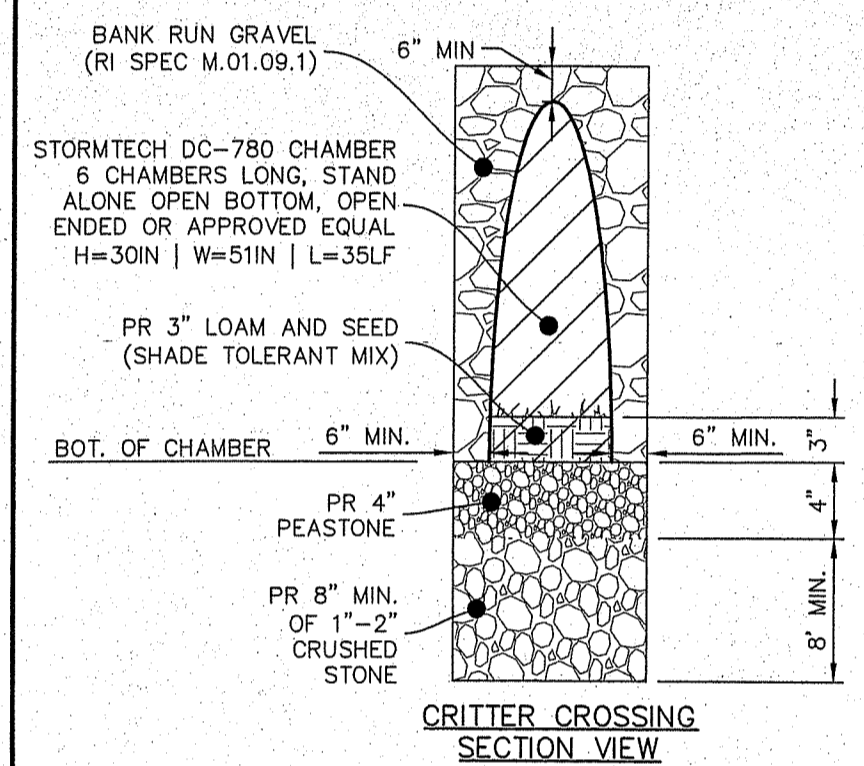
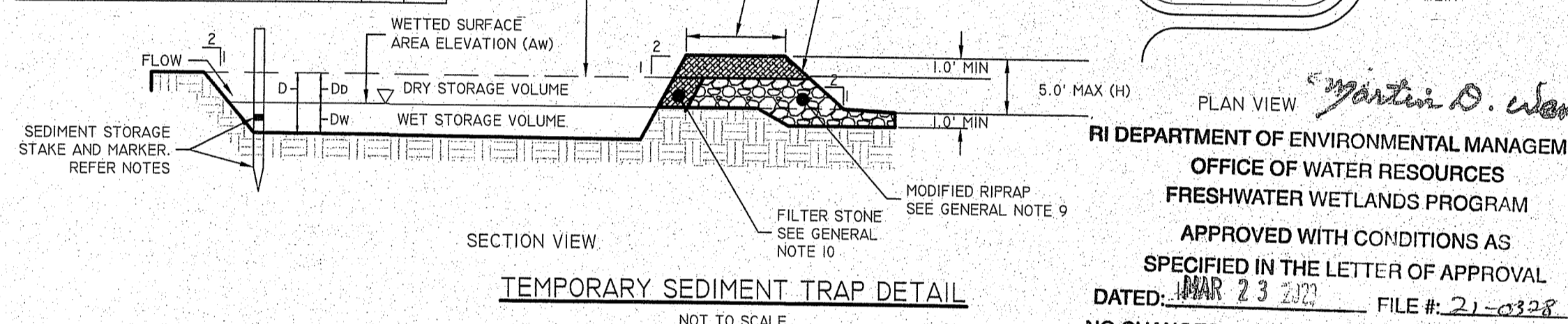
- CLEAR, GRUB AND STRIP ANY VEGETATION AND ROOT MAT FROM ANY PROPOSED EMBANKMENT AND OUTLET AREA.
- REMOVE STONES AND ROCKS WHOSE DIAMETER IS GREATER THAN THREE (3) INCHES AND OTHER DEBRIS.
- EXCAVATE WET STORAGE AND CONSTRUCT THE EMBANKMENT AND/OR OUTLET AS NEEDED TO ATTAIN THE NECESSARY STORAGE REQUIREMENTS.
- USE ONLY FILL MATERIAL FOR THE EMBANKMENT THAT IS FREE FROM EXCESSIVE ORGANICS, DEBRIS, LARGE ROCKS (OVER SIX (6) INCHES) OR OTHER UNSUITABLE MATERIALS. COMPACT THE EMBANKMENT IN 9-INCH LAYERS BY TRAVERSING WITH EQUIPMENT WHILE IT IS BEING CONSTRUCTED.
- STABILIZE THE EARTHEN EMBANKMENT USING ANY OF THE FOLLOWING MEASURES: SEEDING FOR TEMPORARY VEGETATION COVER; SEEDING FOR PERMANENT VEGETATIVE COVER; OR SLOPE PROTECTION, IMMEDIATELY AFTER INSTALLATION.

SEDIMENT TRAP DIMENSIONS*	TRAP A'	TRAP B	TRAP C
TRIBUTARY DRAINAGE AREA	1.68 AC	3.39 AC	3.17 AC
WET STORAGE DEPTH (Dw)	3.0 FT	3.0 FT	3.0 FT
DRY STORAGE DEPTH (Dd)	3.0 FT	3.0 FT	3.0 FT
TOTAL DEPTH (D)	6.0 FT	6.0 FT	6.0 FT
BOTTOM OF TRAP AREA (Ab)	815 SF	1,437 SF	1,437 SF
WETTED SURFACE AREA (Aw)	1,608 SF	2,422 SF	2,422 SF
SURFACE AREA AT OUTLET (Ad)	2,627 SF	3,634 SF	3,634 SF

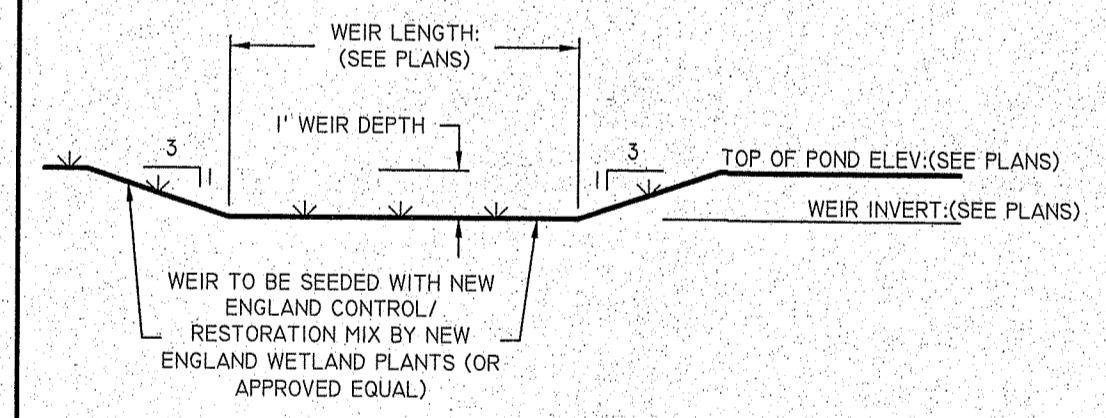
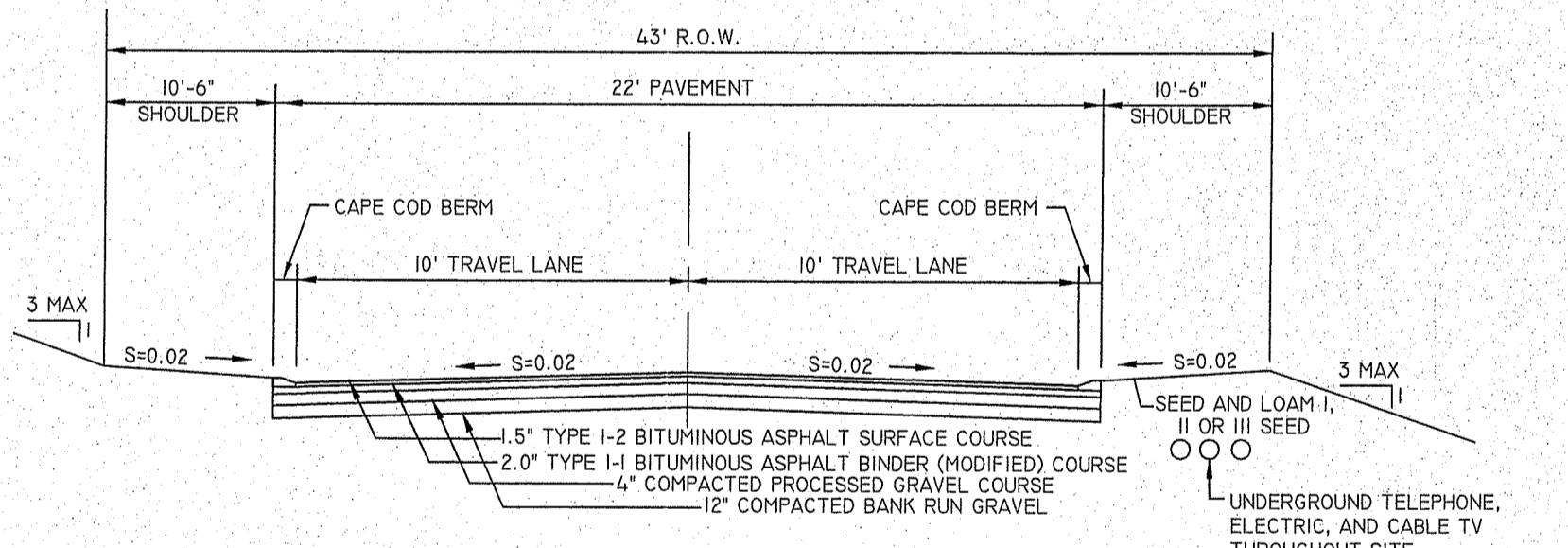
*TRAP DIMENSIONS REPRESENT MINIMUM REQUIRED SIZING TO MEET THE RISESCH CONTRACTOR MAY SHAPE TRAP DIFFERENTLY THAN SHOWN ON PLANS AS LONG AS THE MINIMUM SIZING HAS BEEN PROVIDED.

MINIMUM TOP WIDTH VS HEIGHT

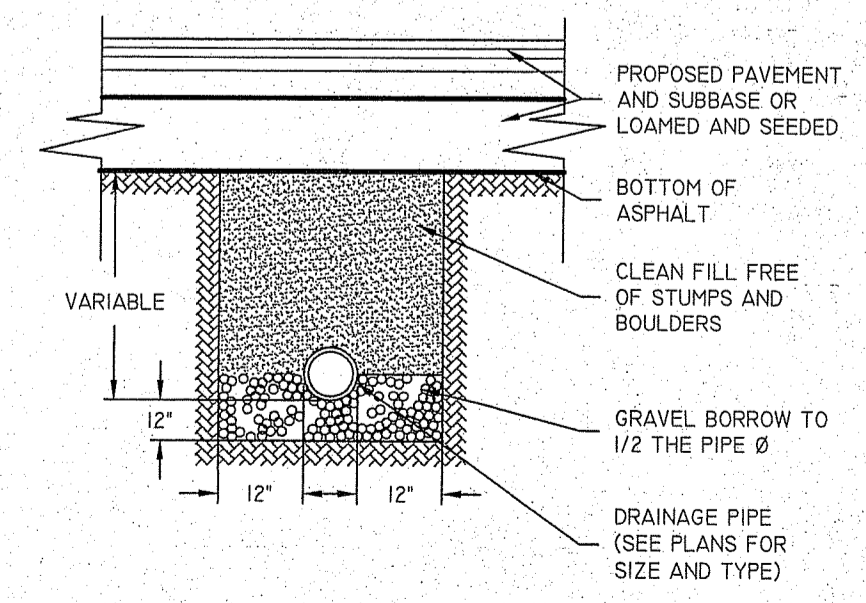
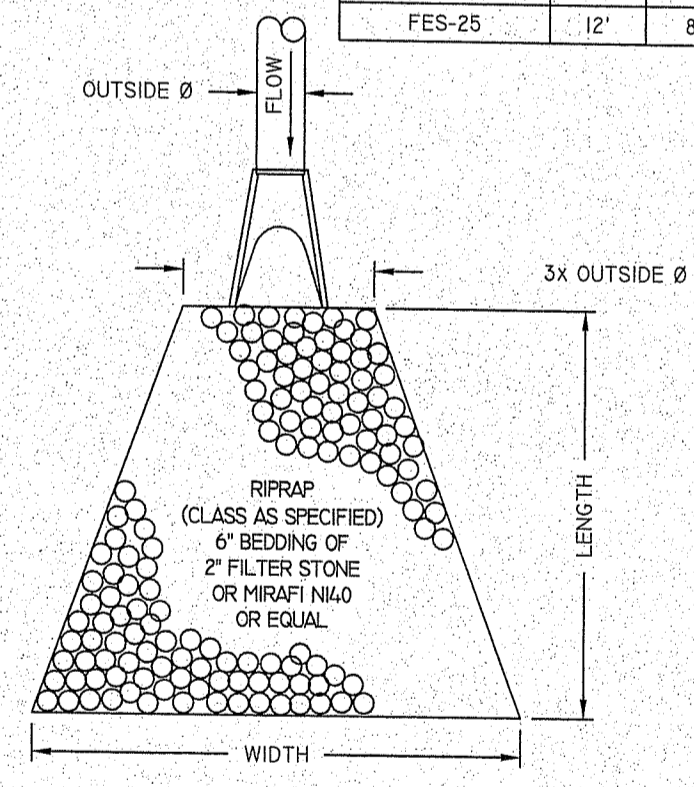
H (FT)	1.5	2.0	2.5	3.0	3.5	4.0	4.5	5.0
W (FT)	2.0	2.0	3.0	2.5	3.0	3.0	4.0	4.5



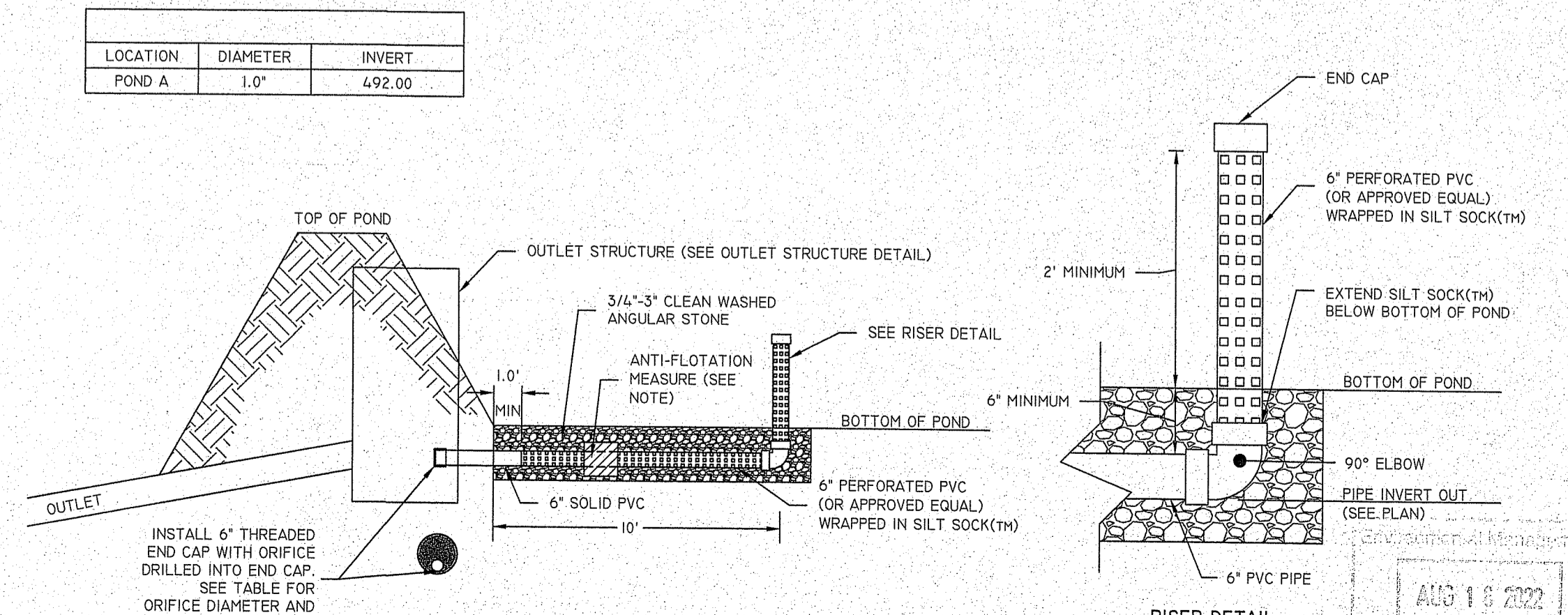
NOTE:
UNDERGROUND UTILITY TRENCH CONSTRUCTION MUST CONFORM WITH ALL APPLICABLE STANDARDS DETERMINED BY THE TOWN AND NATIONAL GRID PRIOR TO COMMENCING CONSTRUCTION. CONTRACTOR MUST NOTIFY DIG SAFE PRIOR TO EXCAVATION.



FLARED END	LENGTH	WIDTH	CLASS
FES-8	20'	14'	2
FES-10	15'	9'	2
FES-25	12'	8'	2



NOTES:
ALL PIPE TO BE RCP CLASS III UNLESS NOTED OTHERWISE



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RI DEPARTMENT OF ENVIRONMENTAL MANAGEMENT
OFFICE OF WATER RESOURCES
FRESHWATER WETLANDS PROGRAM
APPROVED WITH CONDITIONS AS SPECIFIED IN THE LETTER OF APPROVAL
DATED: MAR 23 2022 FILE # 21-0328
NO CHANGES ALLOWED WITHOUT PRIOR APPROVAL
APPROVED PLANS MUST BE AT CONSTRUCTION SITE

DESIGN BY: DAR
DRAWN BY: SOM

DETAIL SHEET-2
LAPHAM FARM ROAD
BURRILL WILLE, RHODE ISLAND
PREPARED FOR:
JAMES, JUDITH, JOSEPH AND MURIEL FARRELL
P.O. 805, CHEPACHET, RHODE ISLAND 02814

AUG 16 2022
Office of Water Resources