

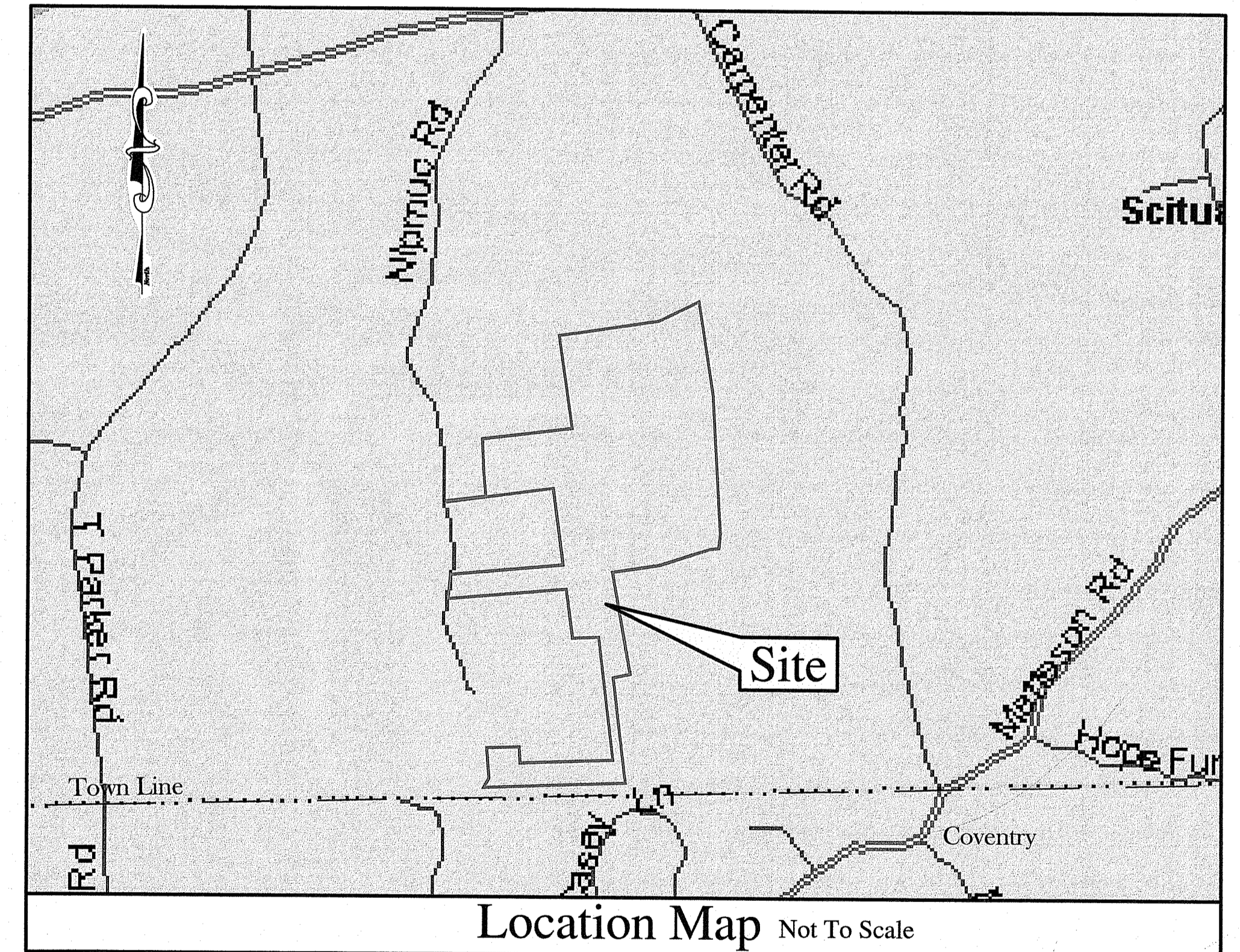
# Preliminary Determination Submission - Phases 2 & 3

# Scituate Highlands

Located on Nipmuc Road  
 Scituate, Rhode Island  
 Assessor's Plat 50 Lot 5

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DEPARTMENT OF ENVIRONMENTAL MANAGEMENT  
 OFFICE OF WATER RESOURCES  
 FRESHWATER WETLANDS PROGRAM  
 APPROVED WITH CONDITIONS  
 AS SPECIFIED IN THE LETTER OF APPROVAL  
 DATED NOV - 2 2021 FILE # 21-0052  
 NO CHANGES ALLOWED WITHOUT PRIOR APPROVAL  
 APPROVED PLANS MUST BE AT CONSTRUCTION SITE

*Nancy L. Freeman*

THE CONTRACTOR IS RESPONSIBLE FOR ALL OF THE MEANS, METHODS, SAFETY PRECAUTIONS AND REQUIREMENTS, AND OSHA CONFORMANCE IN THE IMPLEMENTATION OF THIS PLAN AND DESIGN.

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**RIDEM Submission - Phases 2 & 3**

<p>OCT 01 2021 Office of Water Resources</p>		<p>CHRISTOPHER A. DUHAMEL REGISTERED PROFESSIONAL ENGINEER CIVIL</p>	<p>COVER SHEET  <b>Scituate Highlands</b>                  ASSESSOR'S PLAT 50 LOT 5                  SCITUATE, RHODE ISLAND</p> <p>PREPARED BY  <b>DiPrete Engineering Associates, Inc.</b>                  ENGINEERING, SURVEYING AND PLANNING CONSULTANTS                  TWO STAFFORD COURT                  CRANSTON, R.I. 02920                  (401) 943-1000 FAX: (401) 464-6006</p> <p>PREPARED FOR: APPLICANT AND OWNER  <b>Scituate Highlands, LLC</b>                  c/o KALPESH SHAH                  KINGSTOWN ROAD                  WEST KINGSTOWN, RI 02892                  (401) 286-2035</p>																			
<table border="1"> <thead> <tr> <th>NO</th> <th>DATE</th> <th>DESCRIPTION</th> <th>BY</th> </tr> </thead> <tbody> <tr> <td>3</td> <td>09-29-2021</td> <td>RIDEM RESPONSE TO COMMENTS</td> <td>SR</td> </tr> <tr> <td>2</td> <td>08-18-2021</td> <td>RIDEM RESPONSE TO COMMENTS</td> <td>NMP</td> </tr> <tr> <td>1</td> <td>08-25-2021</td> <td>RIDEM RESPONSE TO COMMENTS</td> <td>NMP</td> </tr> <tr> <td>0</td> <td>02-15-2021</td> <td>PRELIMINARY DETERMINATION SUBMISSION</td> <td>KMR</td> </tr> </tbody> </table>	NO	DATE	DESCRIPTION	BY	3	09-29-2021	RIDEM RESPONSE TO COMMENTS	SR	2	08-18-2021	RIDEM RESPONSE TO COMMENTS	NMP	1	08-25-2021	RIDEM RESPONSE TO COMMENTS	NMP	0	02-15-2021	PRELIMINARY DETERMINATION SUBMISSION	KMR	<p>FEBRUARY, 2021 DWN. BY: N.M.P.</p>	<p>SHEET 1 OF 29</p>
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0	02-15-2021	PRELIMINARY DETERMINATION SUBMISSION	KMR																			

Old Plainfield Pike

1/2 Mile Radius

Carpenter Road

1/2 Mile Radius

Nipmuc Road

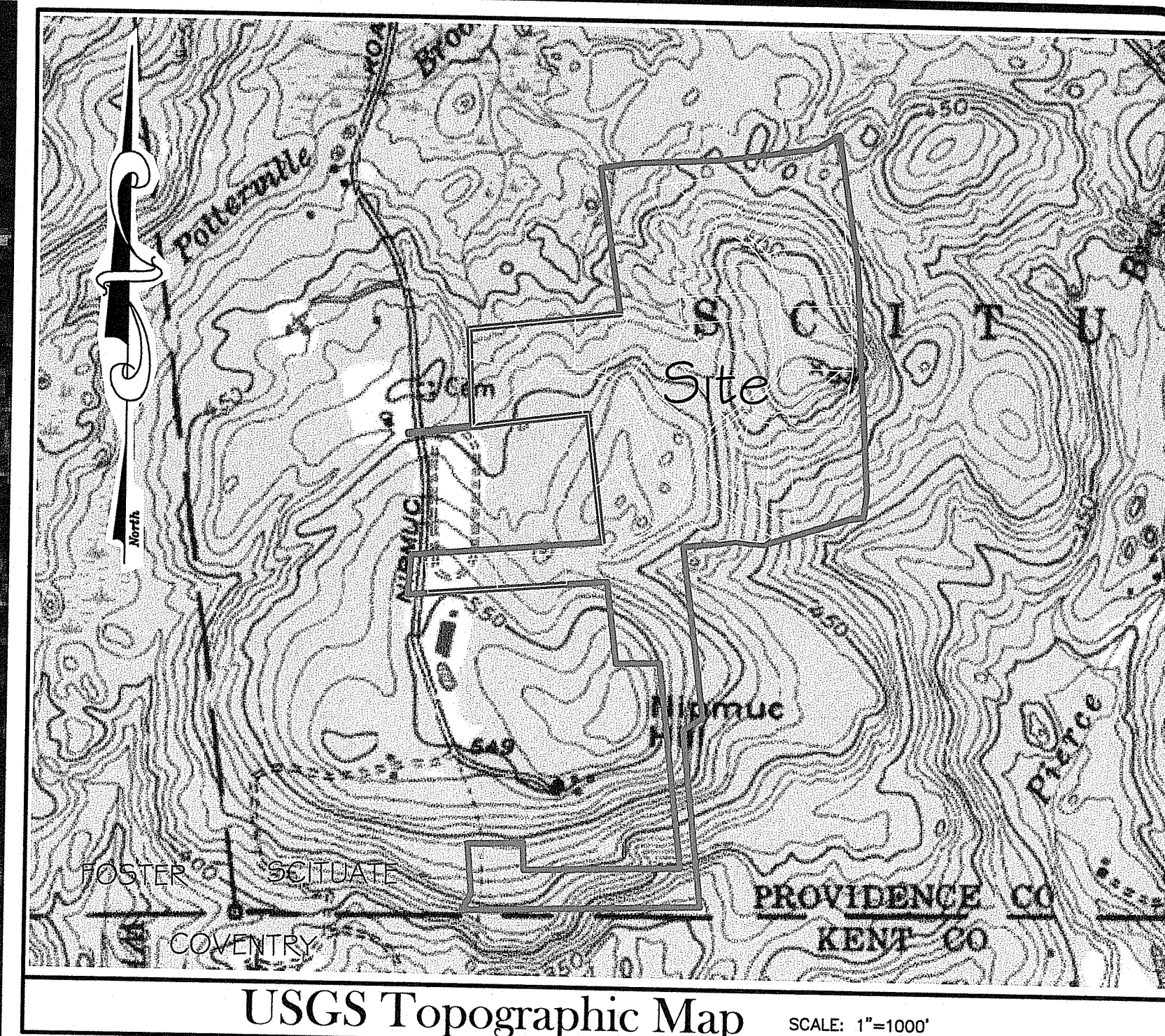
SITE

1/2 Mile Radius

Town Line Foster  
Town Line Scituate

Town Line Coventry

1/2 Mile Radius



**Legend**

EXISTING TREE LINE	PROPOSED TREE LINE	ABUTTING PROPERTY LINE	SOIL DIVISION LINE	PROPERTY LINE	EXISTING BUILDING	STONEWALL EXISTING	STONEWALL PROPOSED	OVERHEAD WIRES	UTILITY POLE	TWO FOOT CONTOUR	TEN FOOT CONTOUR	PROPOSED CONTOURS	FLAGGED WETLAND LINE	EXISTING GRAVEL CART PATHS	PROPOSED ISDS	PROPOSED SEPTIC TANK	PROPOSED HOUSE	PROPOSED WELLS	EXISTING ISDS	EXISTING BOULDER	SILT FENCE OR HAY BALES AT LIMIT OF DISTURBANCE	LIMIT OF DISTURBANCE LINE	EXISTING FENCE	PROPOSED DRAINAGE	PROPOSED CATCHBASIN	PROPOSED DOUBLE CATCHBASIN	PROPOSED MANHOLE	PROPOSED FLARED END	PROPOSED RIP RAP APRON	PROPOSED DRYWELL SYSTEM	PROPOSED PAVED DRIVEWAY	PROPOSED DRAINAGE EASEMENT	SETBACK LINE	CEMETERY	50' PERIMETER WETLAND LINE	100' RIVERBANK WETLAND	SCITUATE RESERVOIR WATERSHED BOUNDARY	TEST HOLE	LEDGE TEST	DRAINAGE PIPE FLOW ARROW	SPOT GRADES
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**RIDEM Submission - Phases 2 & 3**

FRESHWATER WETLANDS PROGRAM APPROVED WITH CONDITIONS AS SPECIFIED IN THE LETTER OF APPROVAL DATED NOV - 2 2021 FILE # 21-0032

NO CHANGES ALLOWED WITHOUT PRIOR APPROVAL AND POWER PLANS MUST BE AT THE CONSTRUCTION SITE

*Nancy L. Freeman*  
DEPARTMENT OF ENVIRONMENTAL MANAGEMENT  
Office of Water Resources

CHRISTOPHER A. DUHAMEL  
5033  
REGISTERED PROFESSIONAL ENGINEER CIVIL

**AERIAL 1/2 MILE RADIUS**

**Scituate Highlands**  
ASSESSOR'S PLAT 50 LOT 5  
SCITUATE, RHODE ISLAND

PREPARED BY  
**DiPrete Engineering Associates, Inc.**  
ENGINEERING, SURVEYING AND PLANNING CONSULTANTS  
TWO STAFFORD COURT  
CRANSTON, R.I. 02920  
(401) 943-1000 FAX: (401) 464-6006

PREPARED FOR: APPLICANT AND OWNER  
**Scituate Highlands, LLC**  
c/o KALPESH SHAH  
KINGSTOWN ROAD  
WEST KINGSTOWN, RI 02892  
(401) 286-2035

PHOTO OBTAINED FROM THE RI-GIS 2014 DIGITAL ORTHOPHOTOS OF RHODE ISLAND.

SCALE: 1"=600'

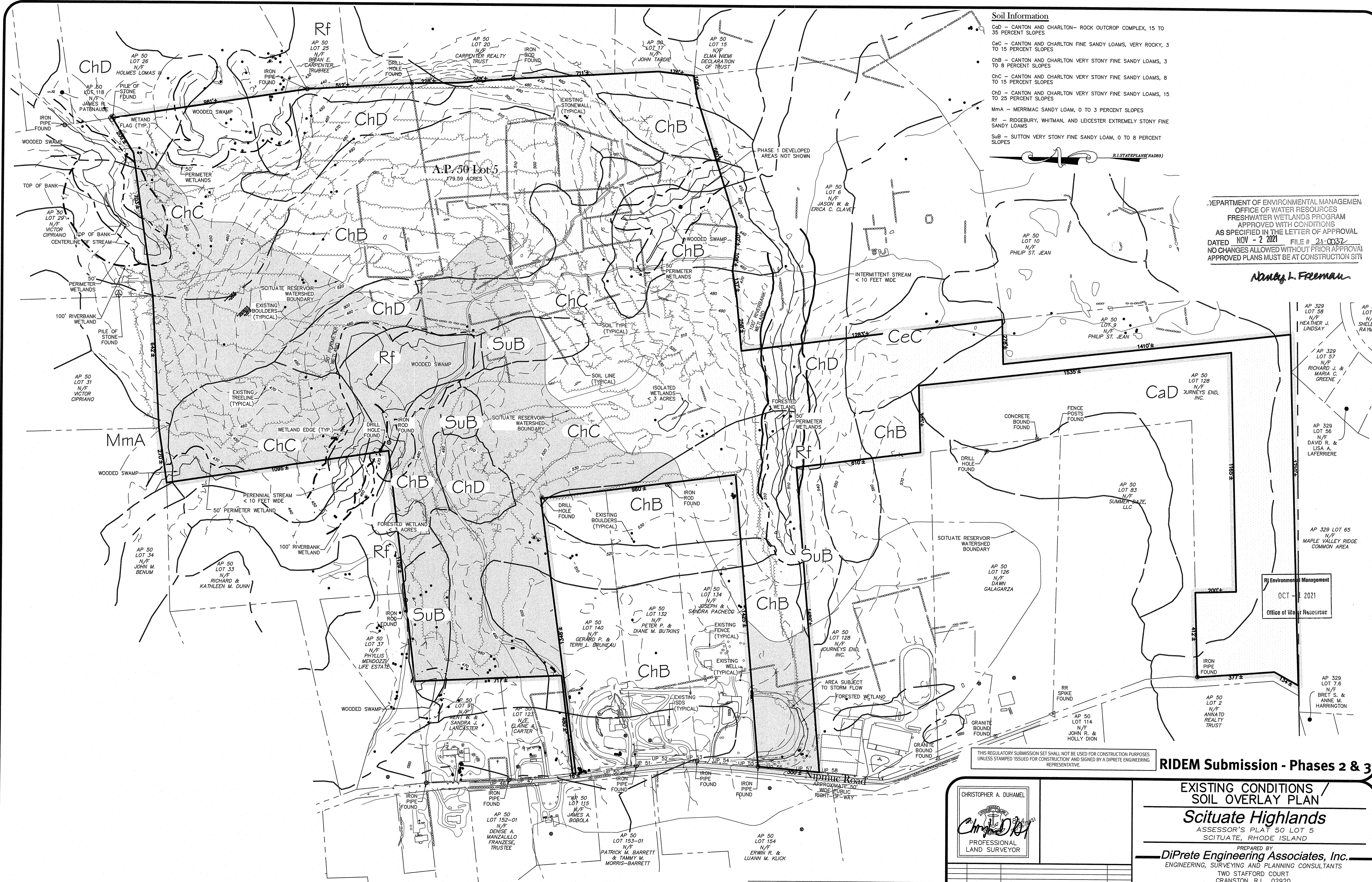
0 300' 600' 1200'

NO.	DATE	DESCRIPTION	BY
3	08-28-2021	RIDEM RESPONSE TO COMMENTS	SR
2	08-19-2021	REPLY RESPONSE TO COMMENTS	NMP
1	08-25-2021	RIDEM RESPONSE TO COMMENTS	NMP
0	02-05-2021	PRELIMINARY DETERMINATION SUBMISSION	KMR

FEBRUARY, 2021  
DWN. BY: N.M.P.

WEST KINGSTOWN, RI 02892  
(401) 286-2035

SHEET 2 OF 29



- Soil Information**
- CaD - CANTON AND CHARLTON - ROCK OUTCROP COMPLEX, 15 TO 35 PERCENT SLOPES
  - ChC - CANTON AND CHARLTON FINE SANDY LOAMS, VERY ROCKY, 3 TO 15 PERCENT SLOPES
  - ChB - CANTON AND CHARLTON VERY STONY FINE SANDY LOAMS, 3 TO 8 PERCENT SLOPES
  - ChC - CANTON AND CHARLTON VERY STONY FINE SANDY LOAMS, 8 TO 15 PERCENT SLOPES
  - ChD - CANTON AND CHARLTON VERY STONY FINE SANDY LOAMS, 15 TO 25 PERCENT SLOPES
  - MmA - MERRIMAC SANDY LOAM, 0 TO 3 PERCENT SLOPES
  - Rf - RIDGEBURY, WHITMAN, AND LEICESTER EXTREMELY STONY FINE SANDY LOAMS
  - SuB - SUTTON VERY STONY FINE SANDY LOAM, 0 TO 8 PERCENT SLOPES

DEPARTMENT OF ENVIRONMENTAL MANAGEMENT  
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Office of Water Resources  
 OCT - 2 2021

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**RIDEM Submission - Phases 2 & 3**

CHRISTOPHER A. DUHAMEL  
  
 PROFESSIONAL LAND SURVEYOR

**EXISTING CONDITIONS / SOIL OVERLAY PLAN**  
**Scituate Highlands**  
 ASSESSOR'S PLAT 50 LOT 5  
 SCITUATE, RHODE ISLAND

PREPARED BY  
**DiPrete Engineering Associates, Inc.**  
 ENGINEERING, SURVEYING AND PLANNING CONSULTANTS

TWO STAFFORD COURT  
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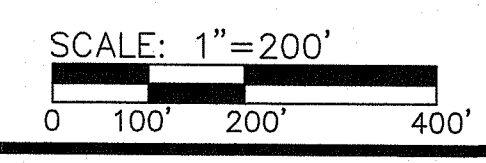
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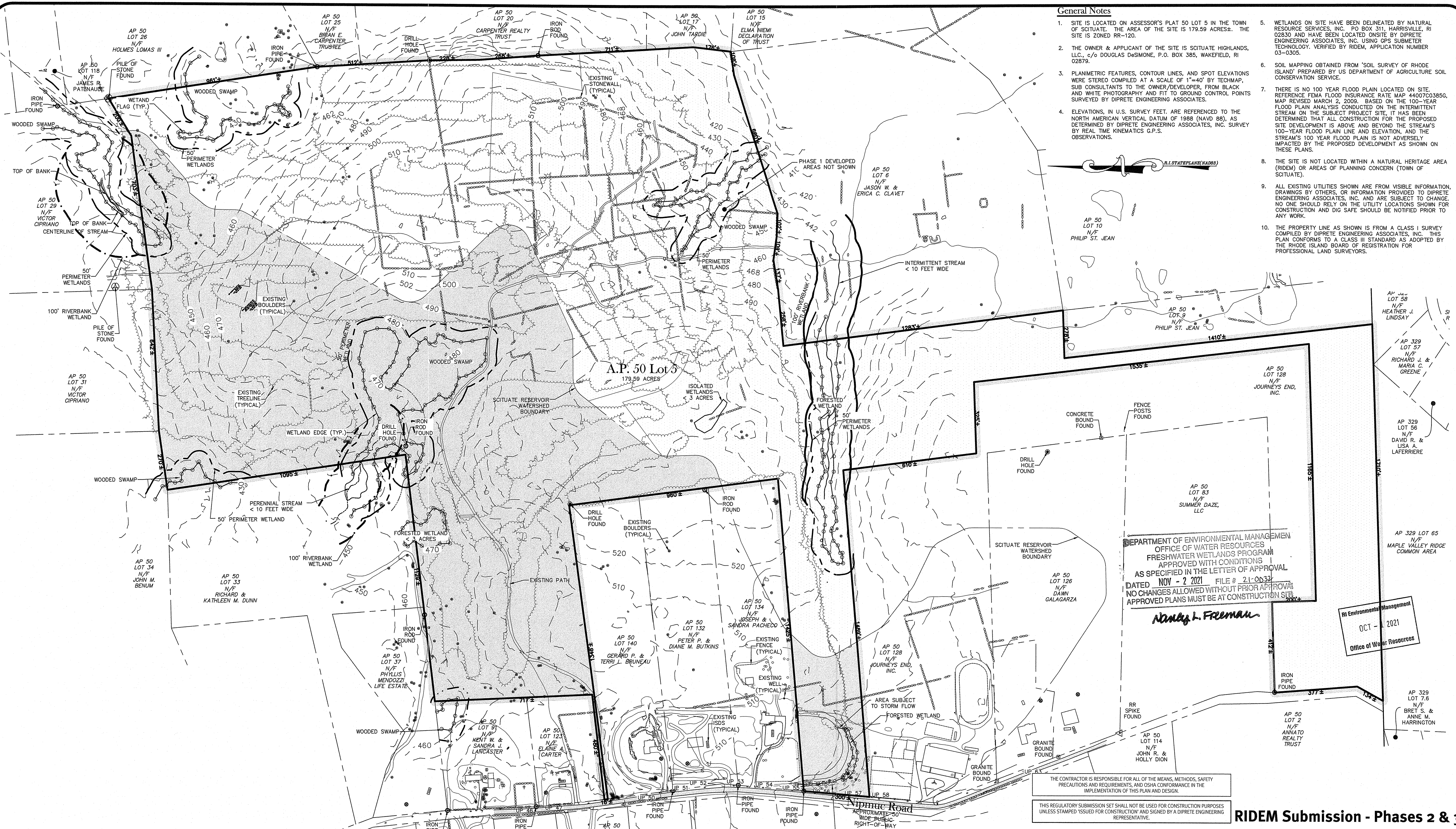
SHEET 3 OF 29

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NO.	DATE	DESCRIPTION	BY
1	02-02-2021	PRELIMINARY DETERMINATION SUBMISSION	KMR
2	08-19-2021	RIDEM RESPONSE TO COMMENTS	NMP
3	09-28-2021	RIDEM RESPONSE TO COMMENTS	SR
4	06-28-2021	RIDEM RESPONSE TO COMMENTS	NMP

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- General Notes**
- SITE IS LOCATED ON ASSESSOR'S PLAT 50 LOT 5 IN THE TOWN OF SCITUATE. THE AREA OF THE SITE IS 179.59 ACRES. THE SITE IS ZONED RR-120.
  - THE OWNER & APPLICANT OF THE SITE IS SCITUATE HIGHLANDS, LLC, c/o DOUGLAS DESIMONE, P.O. BOX 385, WAKEFIELD, RI 02878.
  - PLANIMETRIC FEATURES, CONTOUR LINES, AND SPOT ELEVATIONS WERE STEREO COMPILATED AT A SCALE OF 1"=40' BY TECHMAP, SUB CONSULTANTS TO THE OWNER/DEVELOPER, FROM BLACK AND WHITE PHOTOGRAPHY AND FIT TO GROUND CONTROL POINTS SURVEYED BY DIPRETE ENGINEERING ASSOCIATES.
  - ELEVATIONS, IN U.S. SURVEY FEET, ARE REFERENCED TO THE NORTH AMERICAN VERTICAL DATUM OF 1988 (NAVD 88), AS DETERMINED BY DIPRETE ENGINEERING ASSOCIATES, INC. SURVEY BY REAL TIME KINEMATICS G.P.S. OBSERVATIONS.
  - WETLANDS ON SITE HAVE BEEN DELINEATED BY NATURAL RESOURCE SERVICES, INC., PO BOX 311, HARRISVILLE, RI 02830 AND HAVE BEEN LOCATED ON SITE BY DIPRETE ENGINEERING ASSOCIATES, INC. USING GPS SUBMETER TECHNOLOGY. VERIFIED BY RIDEM, APPLICATION NUMBER 03-0305.
  - SOIL MAPPING OBTAINED FROM 'SOIL SURVEY OF RHODE ISLAND' PREPARED BY US DEPARTMENT OF AGRICULTURE SOIL CONSERVATION SERVICE.
  - THERE IS NO 100 YEAR FLOOD PLAIN LOCATED ON SITE. REFERENCE FEMA FLOOD INSURANCE RATE MAP 44007C03850, MAP REVISED MARCH 2, 2009, BASED ON THE 100-YEAR FLOOD PLAIN ANALYSIS CONDUCTED ON THE INTERMITTENT STREAM ON THE SUBJECT PROJECT SITE, IT HAS BEEN DETERMINED THAT ALL CONSTRUCTION FOR THE PROPOSED SITE DEVELOPMENT IS ABOVE AND BEYOND THE STREAM'S 100-YEAR FLOOD PLAIN LINE AND ELEVATION, AND THE STREAM'S 100 YEAR FLOOD PLAIN IS NOT ADVERSELY IMPACTED BY THE PROPOSED DEVELOPMENT AS SHOWN ON THESE PLANS.
  - THE SITE IS NOT LOCATED WITHIN A NATURAL HERITAGE AREA (RIDEM) OR AREAS OF PLANNING CONCERN (TOWN OF SCITUATE).
  - ALL EXISTING UTILITIES SHOWN ARE FROM VISIBLE INFORMATION, DRAWINGS BY OTHERS, OR INFORMATION PROVIDED TO DIPRETE ENGINEERING ASSOCIATES, INC. AND ARE SUBJECT TO CHANGE. NO ONE SHOULD RELY ON THE UTILITY LOCATIONS SHOWN FOR CONSTRUCTION AND DIG SAFE SHOULD BE NOTIFIED PRIOR TO ANY WORK.
  - THE PROPERTY LINE AS SHOWN IS FROM A CLASS I SURVEY COMPILED BY DIPRETE ENGINEERING ASSOCIATES, INC. THIS PLAN CONFORMS TO A CLASS III STANDARD AS ADOPTED BY THE RHODE ISLAND BOARD OF REGISTRATION FOR PROFESSIONAL LAND SURVEYORS.



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RI Environmental Management  
 Office of Water Resources  
 OCT - 2021

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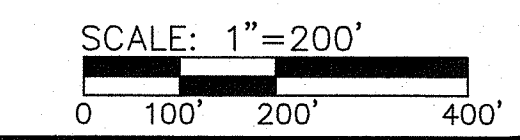
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FEBRUARY, 2021  
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SHEET 4 OF 29

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**GENERAL NOTES:**

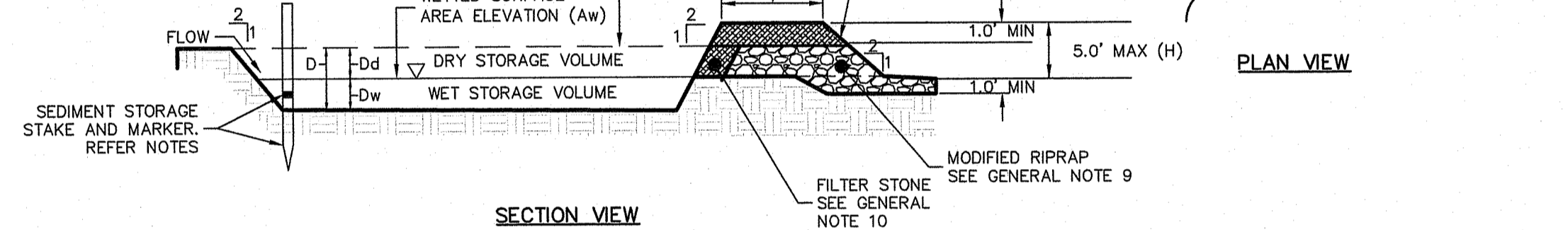
1. THE TEMPORARY SEDIMENT TRAP SHALL MEET ALL REQUIREMENTS FOR TEMPORARY SEDIMENT TRAPS OUTLINED IN THE RHODE ISLAND SOIL EROSION AND SEDIMENT CONTROL HANDBOOK (LATEST REVISION) SECTION SIX: SEDIMENT CONTROL MEASURES.
2. THE TEMPORARY SEDIMENT TRAP MUST PROVIDE A STORAGE VOLUME FOR ONE INCH OF RUNOFF FROM THE CONTRIBUTING AREA. HALF OF THE STORAGE MUST BE PROVIDED IN THE FORM OF WET STORAGE. SEE DETAIL BELOW SECTION 6 OF THE RISESC.
3. 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.
4. THE OUTLET MUST BE LOCATED AT THE MOST DISTANT HYDRAULIC POINT FROM THE INLET.
5. THE OUTLET CONSISTS OF A PERVIOUS STONE DIKE WITH A CORE OF MODIFIED RIPRAP AND FACED ON THE UPSTREAM SIDE WITH STONE.
6. TEMPORARY SEDIMENT TRAPS MUST OUTLET ONTO STABILIZED GROUND.
7. 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).
8. SIDE SLOPES OF THE EMBANKMENT MUST BE 2:1 OR FLATTER.
9. MODIFIED RIPRAP: SHALL MEET THE REQUIREMENTS OF RIDOT STANDARD SPECIFICATIONS FOR ROAD AND BRIDGE CONSTRUCTION SUBSECTION M.10.03.2.
10. 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.

SEDIMENT TRAP DIMENSIONS*	TRAP 2A	TRAP 2B	TRAP 2C
TRIBUTARY DRAINAGE AREA	5.00 ac	3.56 ac	4.30 ac
WET STORAGE DEPTH (Dw)	1.0 ft	2.0 ft	2.0 ft
DRY STORAGE DEPTH (Dd)	1.0 ft	1.0 ft	1.0 ft
TOTAL DEPTH (D)	2.0 ft	3.0 ft	3.0 ft
BOTTOM OF TRAP AREA (Ab)	9,241 sq.ft	4,833 sq.ft	4,825 sq.ft
WETTED SURFACE AREA (Aw)	11,541 sq.ft	6,771 sq.ft	6,701 sq.ft
SURFACE AREA AT OUTLET (Ad)	14,068 sq.ft	7,848 sq.ft	8,903 sq.ft

\*TRAP DIMENSIONS REPRESENT MINIMUM REQUIRED SIZING TO MEET THE RISESC. 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	2.5	3.0	3.0	3.0	4.0	4.5



**Temporary Sediment Trap Detail**  
NOT TO SCALE

**Soil Erosion and Sedimentation 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. THE CONTRACTOR IS TO NOTIFY THE DESIGN ENGINEER, THE DIRECTOR OF PUBLIC WORKS, THE TOWN ENGINEER, AND RHODE ISLAND DEPARTMENT OF ENVIRONMENTAL MANAGEMENT AT LEAST 48 HOURS PRIOR TO THE START OF CONSTRUCTION.
2. ALL EROSION CONTROL INCLUDING (BUT NOT LIMITED TO) TEMPORARY SWALES, TEMPORARY SEDIMENT TRAPS, ETC. TO BE INSTALLED PER THE LATEST EDITION OF THE RHODE ISLAND SOIL EROSION AND SEDIMENTATION CONTROL (RISESC) HANDBOOK AND THE SOIL EROSION & SEDIMENTATION CONTROL PLAN(S). NOTE THE SOIL EROSION AND SEDIMENTATION CONTROL SHOWN ON THESE PLANS ARE THE MINIMUM QUANTITY / TYPE OF EROSION CONTROL DEVICES AND MATERIALS DEEMED REQUIRED BY DIPRETE ENGINEERING TO MEET THE OBJECTIVES OF THE RISESC HANDBOOK, BUT IS CONSIDERED A GUIDE ONLY. ADDITIONAL MEASURES/ ALTERNATE CONFIGURATIONS MAY BE REQUIRED IN ORDER TO MEET THE RISESC HANDBOOK BASED ON FACTORS INCLUDING (BUT NOT LIMITED TO) SITE PARAMETERS, WEATHER, INSPECTIONS AND UNIQUE FEATURES. THE SESC WILL CONTINUE TO EVOLVE THROUGHOUT CONSTRUCTION/PHASES. PURSUANT TO NOTE 1 ABOVE, SESC REMAINS THE RESPONSIBILITY OF THE CONTRACTOR UNTIL THE SITE IS FULLY STABILIZED AND/ OR SESC RESPONSIBILITIES ARE ASSUMED BY THE OWNER IN WRITING.
3. TEMPORARY SWALES ARE TO BE USED TO CONTROL RUNOFF DURING CONSTRUCTION OF THE PROPOSED SITE WORKS. TEMPORARY SWALES TO BE VEGETATED AFTER CONSTRUCTION. EROSION CONTROL MATS ARE TO BE INSTALLED, IF NECESSARY, TO PREVENT EROSION AND SUPPORT VEGETATION. AFTER CONSTRUCTION IS COMPLETE AND TRIBUTARY AREAS TO THE SWALES HAVE BEEN STABILIZED, THE TEMPORARY SWALES ARE TO BE CLEARED AND FINAL DESIGN, INCLUDING INSTALLATION OF THE GRASS SWALE TO BE PER THE DESIGN PLANS.
4. ONCE THE SEDIMENT TRAPS ARE NO LONGER REQUIRED AND ALL TRIBUTARY AREAS HAVE BEEN STABILIZED, THE TEMPORARY SEDIMENTATION BASIN TO BE CLEANED AND BROUGHT TO FINAL DESIGN GRADES.
5. INLET PROTECTION IS TO BE INSTALLED ON ALL CATCH BASINS ONCE CONSTRUCTED.
6. FOR SEQUENCE OF CONSTRUCTION, PROJECT PHASING AND CONSTRUCTION PHASING SEE SESC PLAN.
7. CONTRACTOR MAY MODIFY SEQUENCE OF CONSTRUCTION WITH APPROVAL FROM DESIGN ENGINEER AND OWNER.
8. IF CONCRETE TRUCKS ARE WASHED OUT ON SITE, ALL WASHOUT MUST BE COMPLETED IN THE DESIGNATED CONCRETE WASHOUT AREA AS SPECIFIED IN THE LETTER OF APPROVAL.

**Soil Erosion Control Legend:**

- DIVERSION RUNOFF CONVEYANCE MEASURE (SWALE AND/OR BERM) → - - - - -
- TEMPORARY SEDIMENT TRAP (Symbol)
- EROSION CONTROL (COMPOST SOCK, SILT FENCE (RI STD 9.2.0) OR APPROVED EQUAL) (Symbol)
- LIMIT OF DISTURBANCE (NO SEDIMENT CONTROL) (Symbol)
- LIMIT OF DISTURBANCE (WITH SEDIMENT CONTROL) (Symbol)
- TRIBUTARY AREA TO SESC BMP (Symbol)
- CONSTRUCTION ENTRANCE (RIDOT STD 9.9.0) (Symbol)
- INFILTRATING AREA (TO BE PROTECTED BY COMPOST SOCK OR SILT FENCE) (Symbol)
- FINAL CONTOUR GRADE (Symbol)
- INLET SEDIMENT CONTROL (Symbol)

Scale: 1"=200'  
0 100' 200' 400'

Note: This Plan Must Be Reproduced In Color

**INSPECTION, MAINTENANCE, AND REMOVAL REQUIREMENTS:**

1. INSTALL "SEDIMENT STORAGE" STAKE WITH A MARKER AT ONE HALF OF THE WET STORAGE VOLUME.
2. 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.
3. CHECK THE OUTLET TO ENSURE THAT IT IS STRUCTURALLY SOUND AND HAS NOT BEEN DAMAGED BY EROSION OR CONSTRUCTION EQUIPMENT.
4. CHECK FOR SEDIMENT ACCUMULATION AND FILTRATION PERFORMANCE.
5. 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.
6. DISPOSE OF THE SEDIMENT REMOVED FROM THE BASIN IN A SUITABLE AREA AS DESIGNATED BY THE GEOTECHNICAL ENGINEER.
7. THE TEMPORARY SEDIMENT TRAP MAY BE REMOVED AFTER THE CONTRIBUTING DRAINAGE AREA IS STABILIZED.

**INSTALLATION NOTES:**

1. CLEAR, GRUB AND STRIP ANY VEGETATION AND ROOT MAT FROM ANY PROPOSED EMBANKMENT AND OUTLET AREA.
2. REMOVE STONES AND ROCKS WHOSE DIAMETER IS GREATER THAN THREE (3) INCHES AND OTHER DEBRIS.
3. EXCAVATE WET STORAGE AND CONSTRUCT THE EMBANKMENT AND/OR OUTLET AS NEEDED TO ATTAIN THE NECESSARY STORAGE REQUIREMENTS.
4. 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.
5. 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.

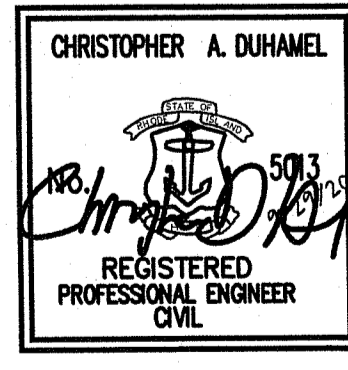
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Division of Water Resources

Nancy L. Freeman

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OFFICE OF WATER RESOURCES  
FRESHWATER WETLANDS PROGRAM  
PREPARED WITH CONDITIONS  
AS SPECIFIED IN THE LETTER OF APPROVAL  
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**RIDEM Submission - Phases 2 & 3**



**SOIL EROSION AND SEDIMENT CONTROL PLAN - PHASE 2**

**Scituate Highlands**

ASSESSOR'S PLAT 50 LOT 5  
SCITUATE, RHODE ISLAND

PREPARED BY  
**DiPrete Engineering Associates, Inc.**  
ENGINEERING, SURVEYING AND PLANNING CONSULTANTS

TWO STAFFORD COURT  
CRANSTON, R.I. 02920  
(401) 943-1000 FAX: (401) 464-6006

PREPARED FOR: APPLICANT AND OWNER

**Scituate Highlands, LLC**

c/o KALPESH SHAH  
KINGSTOWN ROAD  
WEST KINGSTOWN, RI 02892  
(401) 286-2035

FEBRUARY 2021  
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SHEET 5 OF 29



**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)
- 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

**GENERAL NOTES:**

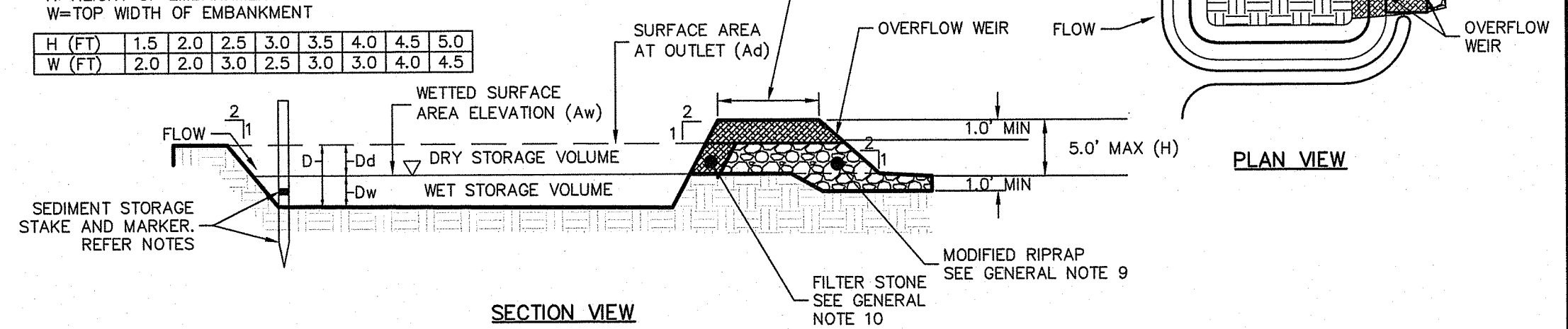
- THE TEMPORARY SEDIMENT TRAP SHALL MEET ALL REQUIREMENTS FOR TEMPORARY SEDIMENT TRAPS OUTLINED IN THE RHODE ISLAND SOIL EROSION AND SEDIMENT CONTROL HANDBOOK (LATEST REVISION) SECTION SIX: SEDIMENT CONTROL MEASURES.
- THE TEMPORARY SEDIMENT TRAP MUST PROVIDE A STORAGE VOLUME FOR ONE INCH OF RUNOFF FROM 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.

SEDIMENT TRAP DIMENSIONS*	TRAP 3A	TRAP 3B
TRIBUTARY DRAINAGE AREA	4.80 ac	4.30 ac
WET STORAGE DEPTH (Dw)	2.0 ft	2.0 ft
DRY STORAGE DEPTH (Dd)	1.0 ft	1.0 ft
TOTAL DEPTH (D)	3.0 ft	3.0 ft
BOTTOM OF TRAP AREA (Ab)	6,500 sq.ft	4,825 sq.ft
WETTED SURFACE AREA (Aw)	9,195 sq.ft	6,701 sq.ft
SURFACE AREA AT OUTLET (Ad)	10,626 sq.ft	7,724 sq.ft

\*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.

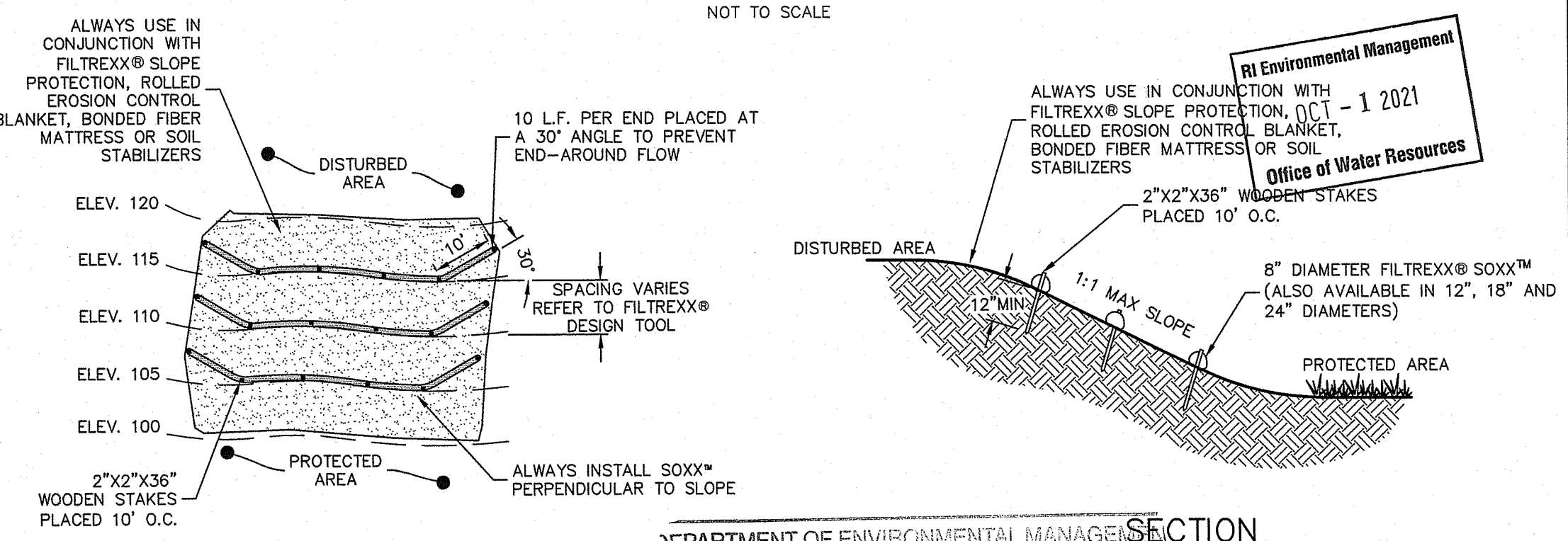
**MINIMUM TOP WIDTH VS HEIGHT**

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



**SECTION VIEW**

**Temporary Sediment Trap Detail**



**PLAN**

**SECTION**

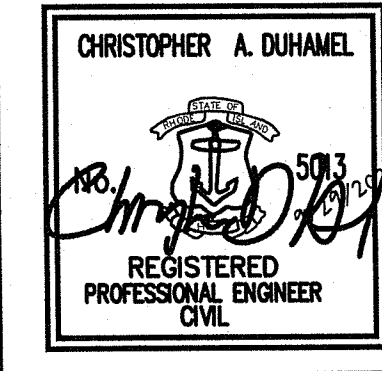
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*Nancy L. Freeman*

**Filtrexx Slope Interruption (or Approved Equal)**

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**RIDEM Submission - Phases 2 & 3**



**SOIL EROSION AND SEDIMENT CONTROL PLAN - PHASE 3**

**Scituate Highlands**

ASSESSOR'S PLAT 50 LOT 5  
 SCITUATE, RHODE ISLAND

PREPARED BY  
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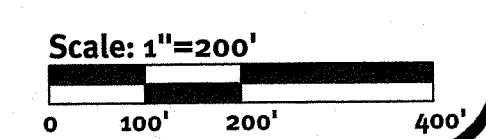
**Scituate Highlands, LLC**

c/o KALPESH SHAH  
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 WEST KINGSTOWN, RI 02892  
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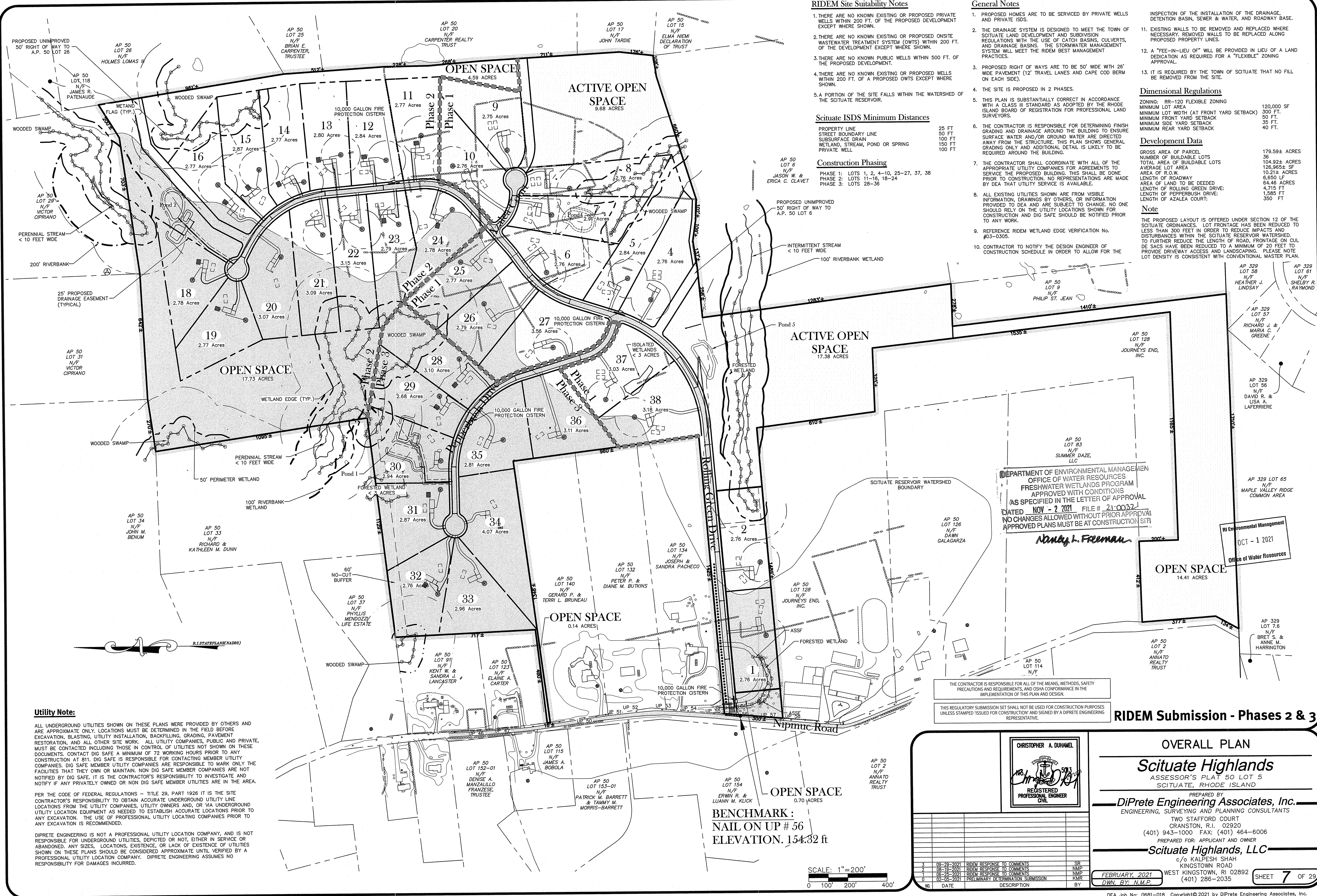
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SHEET 6 OF 29

**Note: This Plan Must Be Reproduced In Color**



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0	02-05-2021	PRELIMINARY DETERMINATION SUBMISSION	KMR



**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 ONSITE WASTEWATER TREATMENT SYSTEM (OWTS) WITHIN 200 FT. OF THE DEVELOPMENT EXCEPT WHERE SHOWN.
3. THERE ARE NO KNOWN PUBLIC WELLS WITHIN 500 FT. OF THE PROPOSED DEVELOPMENT.
4. THERE ARE NO KNOWN EXISTING OR PROPOSED WELLS WITHIN 200 FT. OF A PROPOSED OWTS EXCEPT WHERE SHOWN.
5. A PORTION OF THE SITE FALLS WITHIN THE WATERSHED OF THE SCITUATE RESERVOIR.

**Scituate ISDS Minimum Distances**

PROPERTY LINE	25 FT
STREET BOUNDARY LINE	50 FT
SUBSURFACE DRAIN	100 FT
WETLAND, STREAM, POND OR SPRING	150 FT
PRIVATE WELL	100 FT

**Construction Phasing**

- PHASE 1: LOTS 1, 2, 4-10, 25-27, 37, 38  
 PHASE 2: LOTS 11-16, 18-24  
 PHASE 3: LOTS 28-36

**General Notes**

1. PROPOSED HOMES ARE TO BE SERVICED BY PRIVATE WELLS AND PRIVATE ISDS.
2. THE DRAINAGE SYSTEM IS DESIGNED TO MEET THE TOWN OF SCITUATE LAND DEVELOPMENT AND SUBDIVISION REGULATIONS WITH THE USE OF CATCH BASINS, CULVERTS, AND DRAINAGE BASINS. THE STORMWATER MANAGEMENT SYSTEM WILL MEET THE RIDEM BEST MANAGEMENT PRACTICES.
3. PROPOSED RIGHT OF WAYS ARE TO BE 50' WIDE WITH 26' WIDE PAVEMENT (12' TRAVEL LANES AND CAPE COD BERM ON EACH SIDE).
4. THE SITE IS PROPOSED IN 2 PHASES.
5. THIS PLAN IS SUBSTANTIALLY CORRECT IN ACCORDANCE WITH A CLASS III STANDARD AS ADOPTED BY THE RHODE ISLAND BOARD OF REGISTRATION FOR PROFESSIONAL LAND SURVEYORS.
6. THE CONTRACTOR IS RESPONSIBLE FOR DETERMINING FINISH GRADING AND DRAINAGE AROUND THE BUILDING TO ENSURE SURFACE WATER AND/OR GROUND WATER ARE DIRECTED AWAY FROM THE STRUCTURE. THIS PLAN SHOWS GENERAL GRADING ONLY AND ADDITIONAL DETAIL IS LIKELY TO BE REQUIRED AROUND THE BUILDING.
7. THE CONTRACTOR SHALL COORDINATE WITH ALL OF THE APPROPRIATE UTILITY COMPANIES FOR AGREEMENTS TO SERVICE THE PROPOSED BUILDING. THIS SHALL BE DONE PRIOR TO CONSTRUCTION. NO REPRESENTATIONS ARE MADE BY DEA THAT UTILITY SERVICE IS AVAILABLE.
8. ALL EXISTING UTILITIES SHOWN ARE FROM VISIBLE INFORMATION, DRAWINGS BY OTHERS, OR INFORMATION PROVIDED TO DEA AND ARE SUBJECT TO CHANGE. NO ONE SHOULD RELY ON THE UTILITY LOCATIONS SHOWN FOR CONSTRUCTION AND DIG SAFE SHOULD BE NOTIFIED PRIOR TO ANY WORK.
9. REFERENCE RIDEM WETLAND EDGE VERIFICATION No. #03-0305.
10. CONTRACTOR TO NOTIFY THE DESIGN ENGINEER OF CONSTRUCTION SCHEDULE IN ORDER TO ALLOW FOR THE

**INSPECTION OF THE INSTALLATION OF THE DRAINAGE, DETENTION BASIN, SEWER & WATER, AND ROADWAY BASE.**

11. EXISTING WALLS TO BE REMOVED AND REPLACED WHERE NECESSARY. REMOVED WALLS TO BE REPLACED ALONG PROPOSED PROPERTY LINES.
12. A "FEE-IN-LIEU OF" WILL BE PROVIDED IN LIEU OF A LAND DEDICATION AS REQUIRED FOR A "FLEXIBLE" ZONING APPROVAL.
13. IT IS REQUIRED BY THE TOWN OF SCITUATE THAT NO FILL BE REMOVED FROM THE SITE.

**Dimensional Regulations**

ZONING: RR-120 FLEXIBLE ZONING	120,000 SF
MINIMUM LOT AREA	300 FT.
MINIMUM LOT WIDTH (AT FRONT YARD SETBACK)	50 FT.
MINIMUM FRONT YARD SETBACK	35 FT.
MINIMUM SIDE YARD SETBACK	35 FT.
MINIMUM REAR YARD SETBACK	40 FT.

**Development Data**

GROSS AREA OF PARCEL	179.59± ACRES
NUMBER OF BUILDABLE LOTS	36
TOTAL AREA OF BUILDABLE LOTS	104.92± ACRES
AVERAGE LOT AREA	126.95± SF
AREA OF R.O.W.	10.21± ACRES
LENGTH OF ROADWAY	6,650 LF
AREA OF LAND TO BE DEEDED	64.46 ACRES
LENGTH OF ROLLING GREEN DRIVE	4,715 FT
LENGTH OF PEPPERBUSH DRIVE	1,585 FT
LENGTH OF AZALEA COURT	350 FT

**Note**

THE PROPOSED LAYOUT IS OFFERED UNDER SECTION 12 OF THE SCITUATE ORDINANCES. LOT FRONTAGE HAS BEEN REDUCED TO LESS THAN 300 FEET IN ORDER TO REDUCE IMPACTS AND DISTURBANCES WITHIN THE SCITUATE RESERVOIR WATERSHED. TO FURTHER REDUCE THE LENGTH OF ROAD FRONTAGE ON CUL DE SACS HAVE BEEN REDUCED TO A MINIMUM OF 20 FEET TO PROVIDE DRIVEWAY ACCESS AND LANDSCAPING. PLEASE NOTE LOT DENSITY IS CONSISTENT WITH CONVENTIONAL MASTER PLAN.

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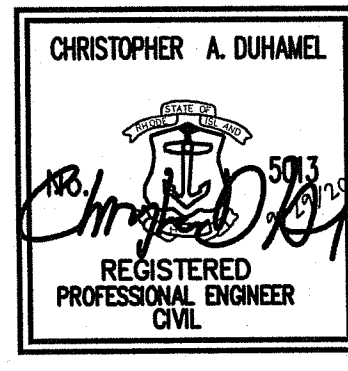
**RIDEM Submission - Phases 2 & 3**

**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 COMPANIES 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.

PER THE CODE OF FEDERAL REGULATIONS - TITLE 29, PART 1926 IT IS THE SITE CONTRACTOR'S RESPONSIBILITY TO OBTAIN ACCURATE UNDERGROUND UTILITY LINE LOCATIONS FROM THE UTILITY COMPANIES, UTILITY OWNERS AND, OR VIA UNDERGROUND UTILITY LOCATION EQUIPMENT AS NEEDED TO ESTABLISH ACCURATE LOCATIONS PRIOR TO ANY EXCAVATION. THE USE OF PROFESSIONAL UTILITY LOCATING COMPANIES PRIOR TO ANY EXCAVATION IS RECOMMENDED.

DIPRETE ENGINEERING IS NOT A PROFESSIONAL UTILITY LOCATION COMPANY, AND IS NOT RESPONSIBLE FOR UNDERGROUND UTILITIES, DEPICTED OR NOT, EITHER IN SERVICE OR ABANDONED. ANY SIZES, LOCATIONS, EXISTENCE, OR LACK OF EXISTENCE OF UTILITIES SHOWN ON THESE PLANS SHOULD BE CONSIDERED APPROXIMATE UNTIL VERIFIED BY A PROFESSIONAL UTILITY LOCATION COMPANY. DIPRETE ENGINEERING ASSUMES NO RESPONSIBILITY FOR DAMAGES INCURRED.



**OVERALL PLAN**

**Scituate Highlands**  
 ASSESSOR'S PLAT 50 LOT 5  
 SCITUATE, RHODE ISLAND

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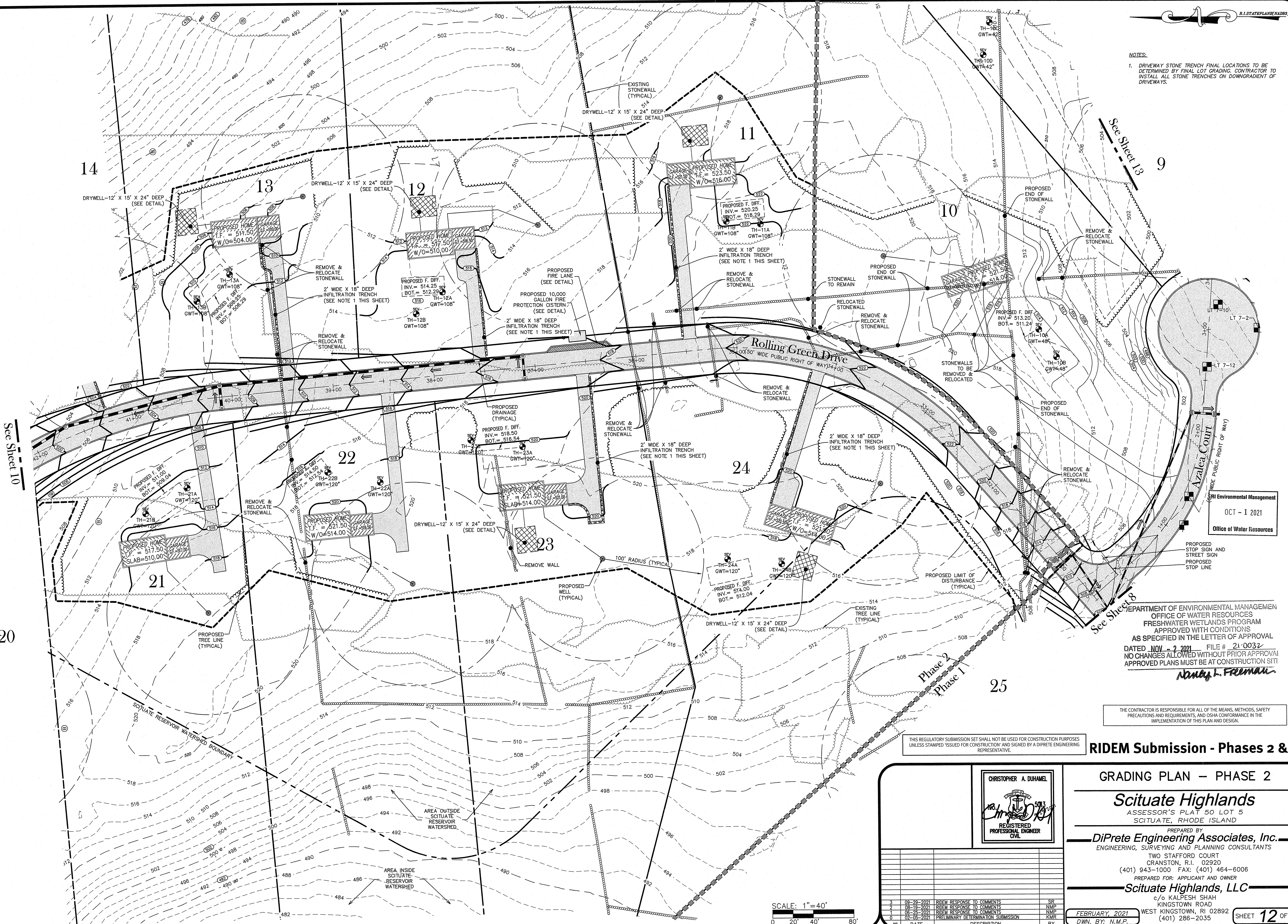
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SHEET **7** OF 29

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SCALE: 1"=200'  
 0 100' 200' 400'

NOTES:  
1. DRIVEWAY STONE TRENCH FINAL LOCATIONS TO BE DETERMINED BY FINAL LOT GRADING. CONTRACTOR TO INSTALL ALL STONE TRENCHES ON DOWNGRADIENT OF DRIVEWAYS.



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*Nancy L. Freeman*

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**RIDEM Submission - Phases 2 & 3**

**GRADING PLAN - PHASE 2**

**Scituate Highlands**

ASSESSOR'S PLAT 50 LOT 5  
SCITUATE, RHODE ISLAND

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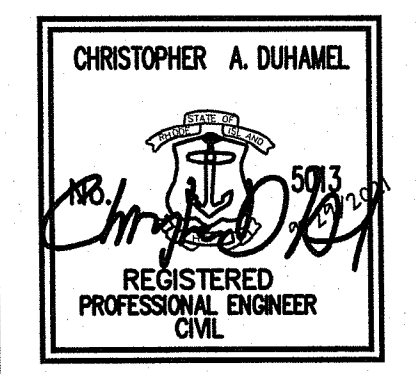
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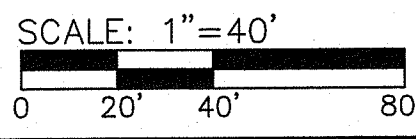
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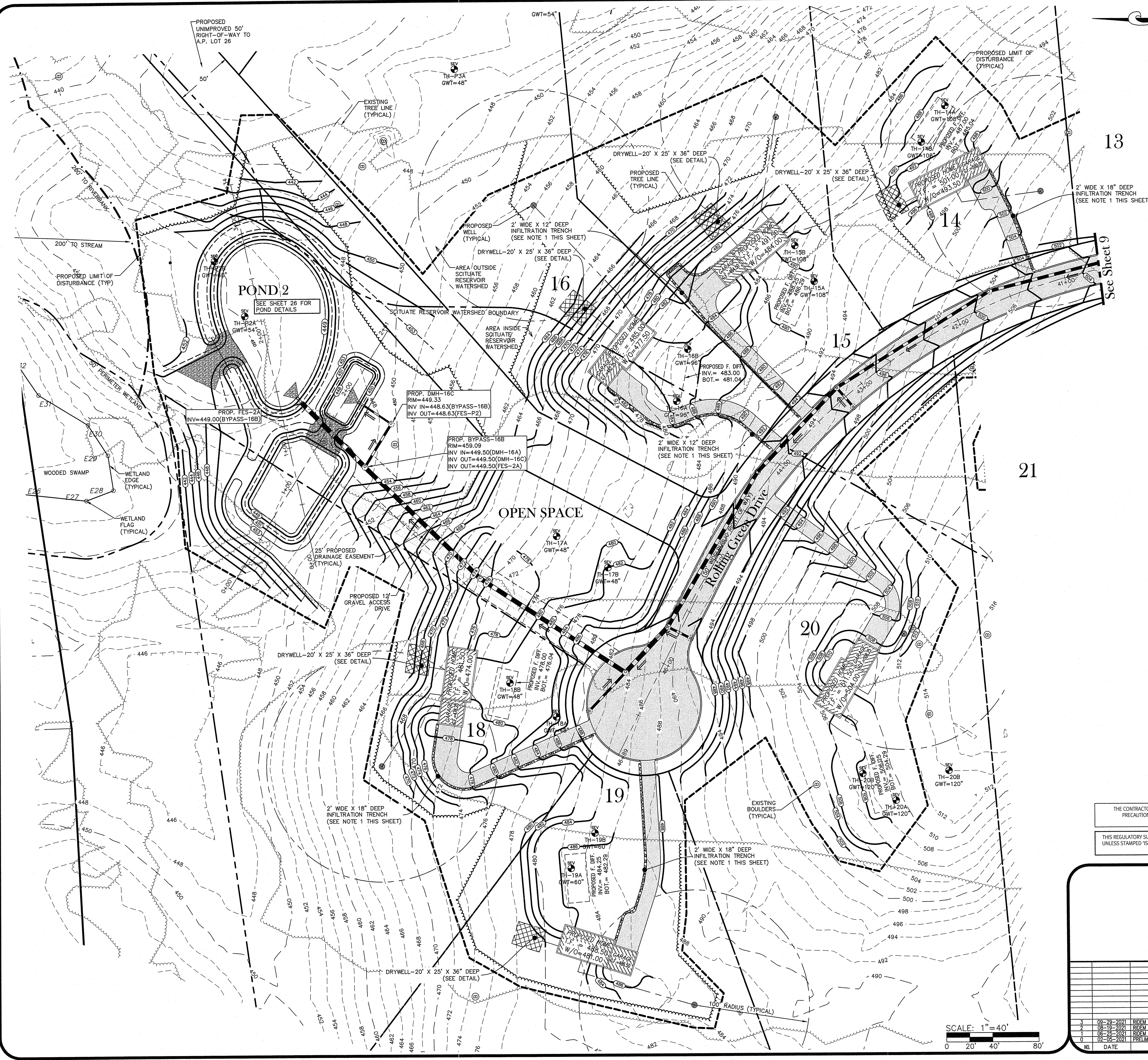
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NOTES:  
1. DRIVEWAY STONE TRENCH FINAL LOCATIONS TO BE DETERMINED BY FINAL LOT GRADING. CONTRACTOR TO INSTALL ALL STONE TRENCHES ON DOWNGRADIENT OF DRIVEWAYS.



13

16

15

21

20

18

19

2' WIDE X 18" DEEP INFILTRATION TRENCH (SEE NOTE 1 THIS SHEET)

2' WIDE X 12" DEEP INFILTRATION TRENCH (SEE NOTE 1 THIS SHEET)

2' WIDE X 12" DEEP INFILTRATION TRENCH (SEE NOTE 1 THIS SHEET)

2' WIDE X 18" DEEP INFILTRATION TRENCH (SEE NOTE 1 THIS SHEET)

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**Scituate Highlands**

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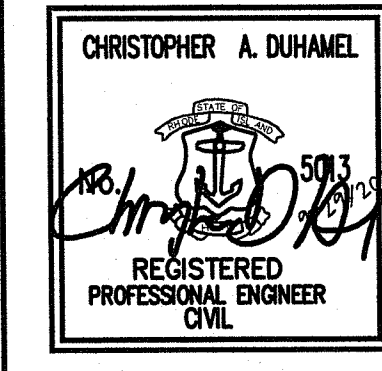
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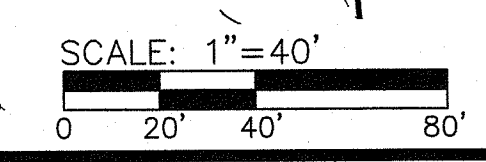
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SHEET 13 OF 29



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NOTES:  
 1. DRIVEWAY STONE TRENCH FINAL LOCATIONS TO BE DETERMINED BY FINAL LOT GRADING. CONTRACTOR TO INSTALL ALL STONE TRENCHES ON DOWNGRADE OF DRIVEWAYS.

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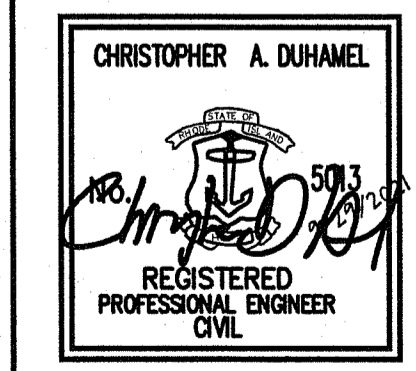
**GRADING PLAN - PHASE 3**

**Scituate Highlands**  
 ASSESSOR'S PLAT 50 LOT 5  
 SCITUATE, RHODE ISLAND

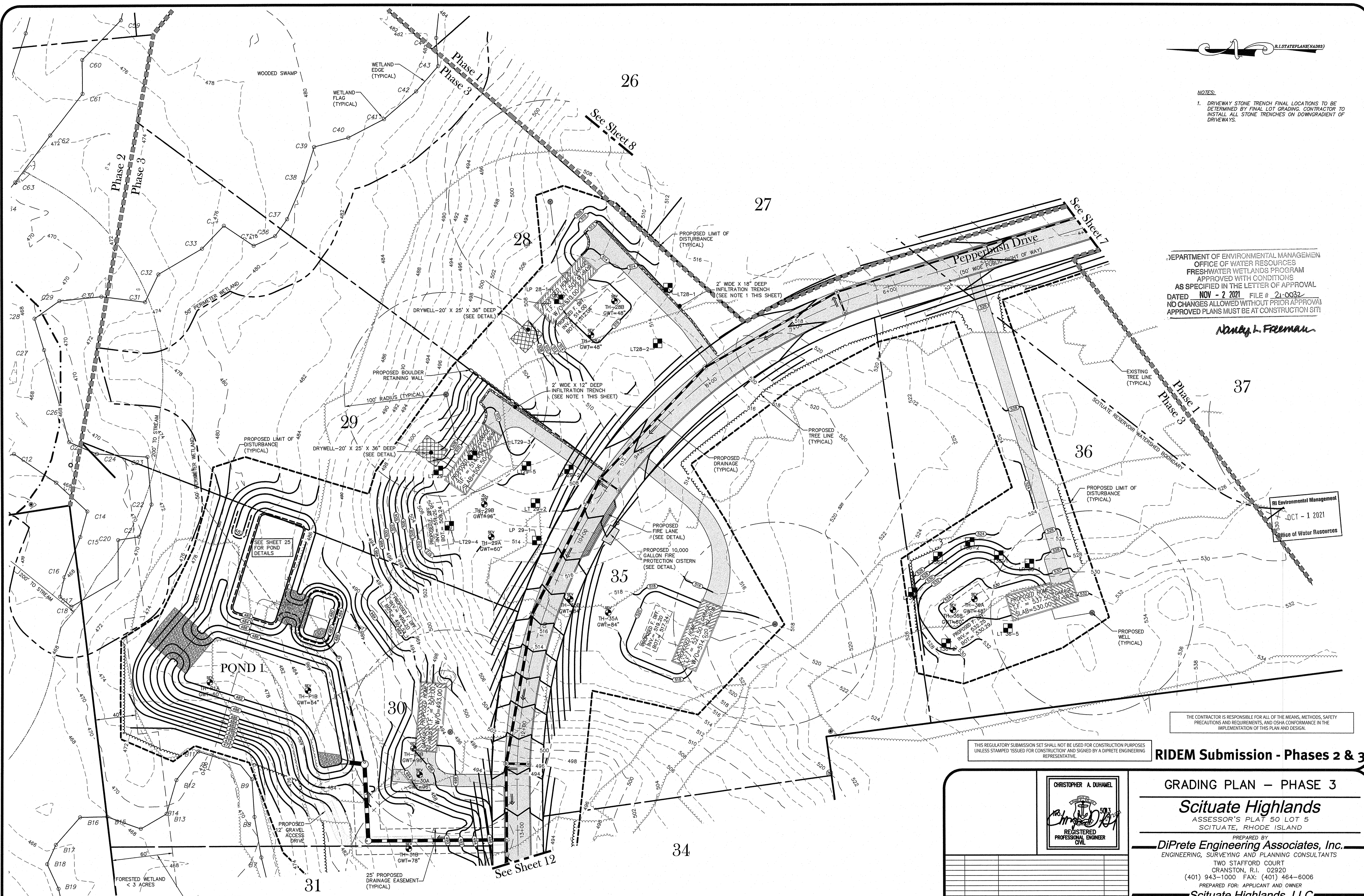
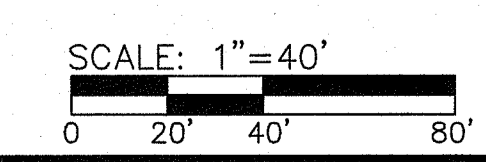
PREPARED BY  
**DiPrete Engineering Associates, Inc.**  
 ENGINEERING, SURVEYING AND PLANNING CONSULTANTS  
 TWO STAFFORD COURT  
 CRANSTON, R.I. 02920  
 (401) 943-1000 FAX: (401) 464-6006  
 PREPARED FOR: APPLICANT AND OWNER

**Scituate Highlands, LLC**

c/o KALPESH SHAH  
 KINGSTOWN ROAD  
 WEST KINGSTOWN, RI 02892  
 (401) 286-2035

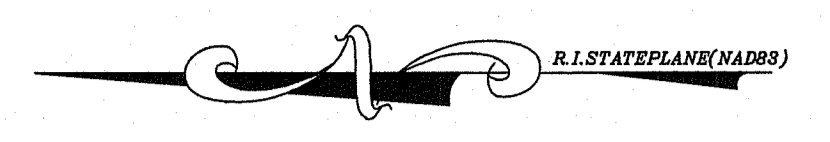


NO.	DATE	DESCRIPTION	BY
3	09-29-2021	RIDEM RESPONSE TO COMMENTS	SR
2	08-19-2021	RIDEM RESPONSE TO COMMENTS	NMP
1	06-25-2021	RIDEM RESPONSE TO COMMENTS	NMP
0	02-05-2021	PRELIMINARY DETERMINATION SUBMISSION	KMR



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See Sheet 11



NOTES:  
1. DRIVEWAY STONE TRENCH FINAL LOCATIONS TO BE DETERMINED BY FINAL LOT GRADING. CONTRACTOR TO INSTALL ALL STONE TRENCHES ON DOWNGRADIENT OF DRIVEWAYS.



RI Environmental Management  
OCT - 1 2021  
Office of Water Resources

DEPARTMENT OF ENVIRONMENTAL MANAGEMENT  
OFFICE OF WATER RESOURCES  
FRESHWATER WETLANDS PROGRAM  
APPROVED WITH CONDITIONS  
AS SPECIFIED IN THE LETTER OF APPROVAL  
DATED NOV - 2 2021 FILE # 21-0032  
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APPROVED PLANS MUST BE AT CONSTRUCTION SITE

*Nancy L. Freeman*

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RIDEM Submission - Phases 2 & 3

GRADING PLAN - PHASE 3

**Scituate Highlands**

ASSESSOR'S PLAT 50 LOT 5  
SCITUATE, RHODE ISLAND

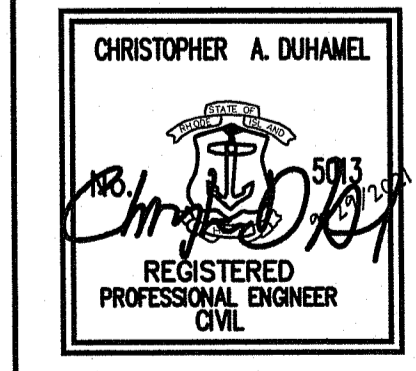
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SCALE: 1" = 40'  
0 20' 40' 80'

FEBRUARY, 2021 WEST KINGSTOWN, RI 02892 SHEET 15 OF 29  
DWN. BY: N.M.P.

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Sec Sheet 9

10

See Sheet 9

See Sheet 8

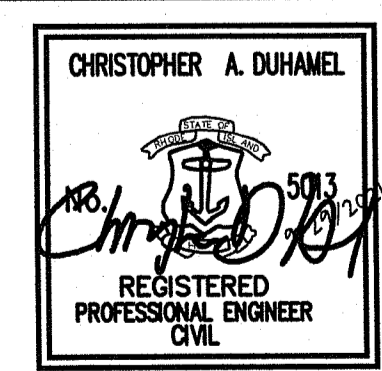
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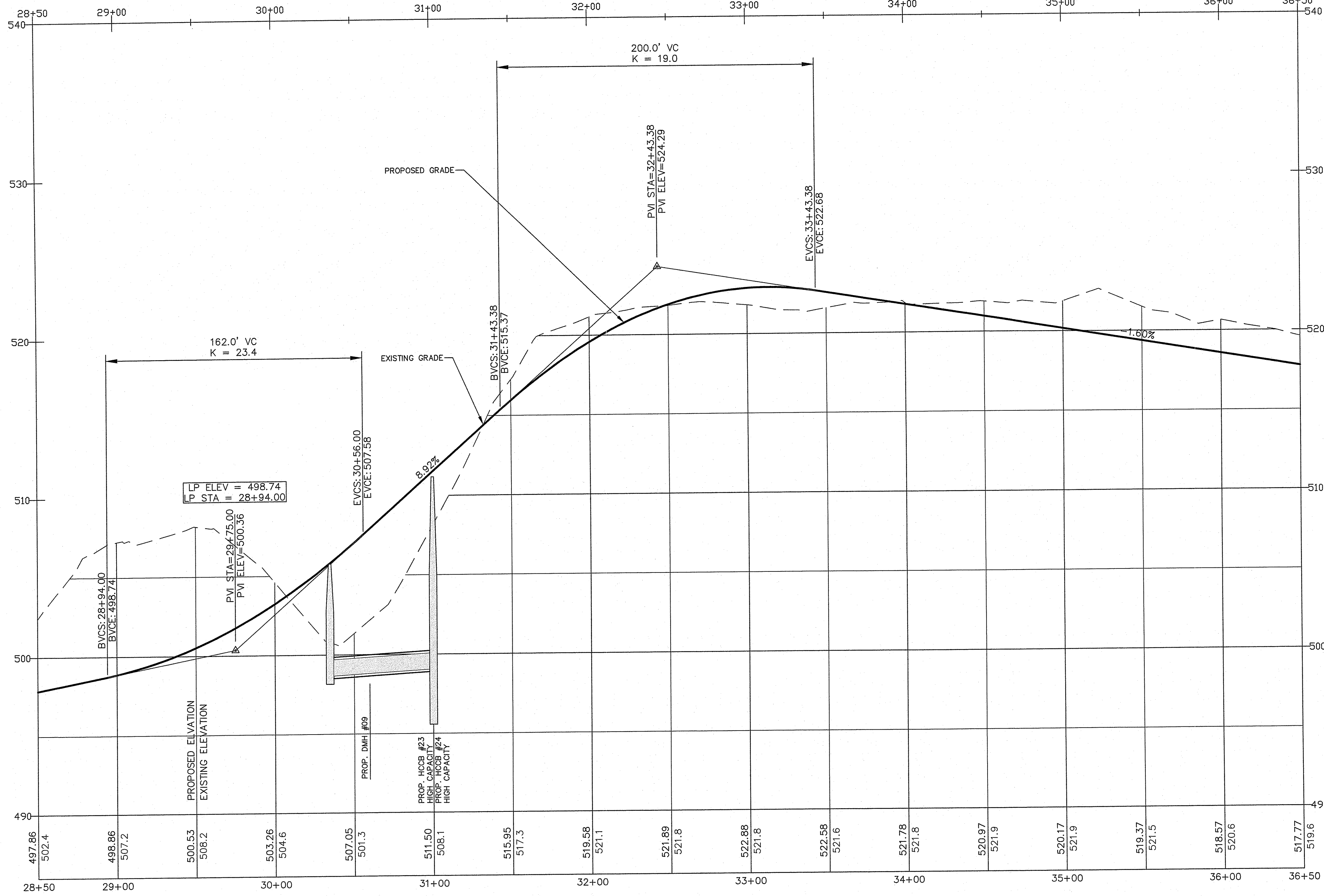
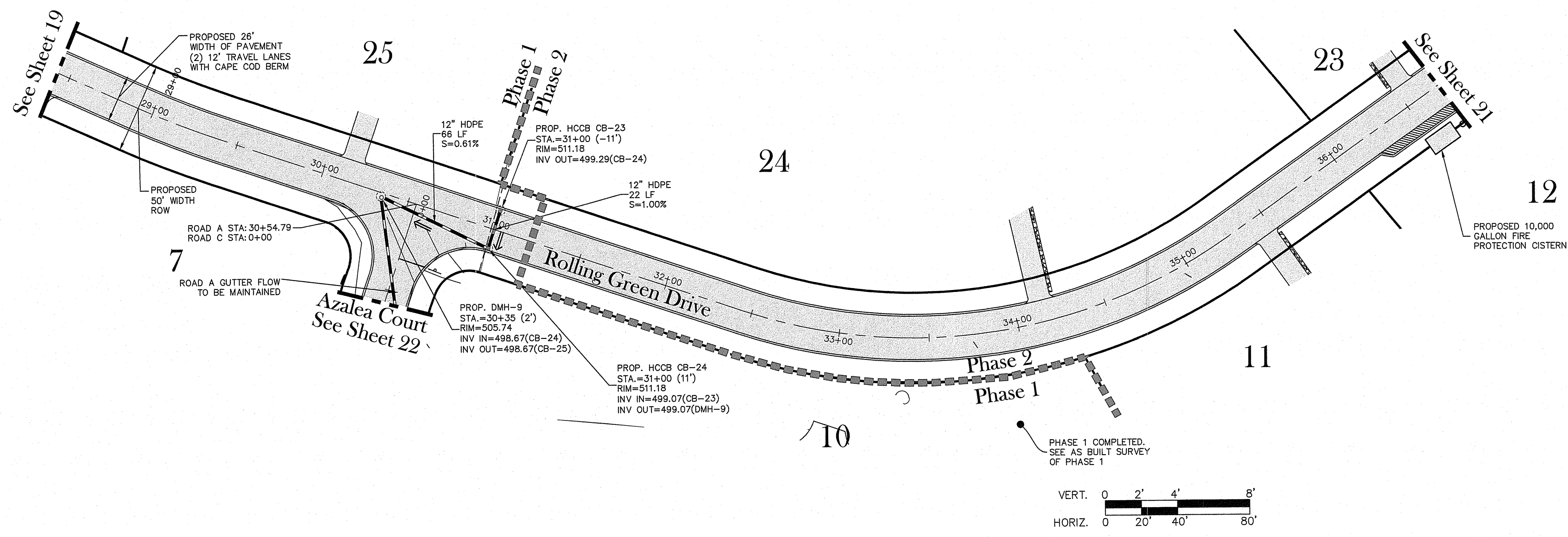
**RIDEM Submission - Phases 2 & 3**



**GRADING PLAN - PHASE 1**  
**Scituate Highlands**  
ASSESSOR'S PLAT 50 LOT 5  
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SCALE: 1"=40'  
0 20' 40' 80'



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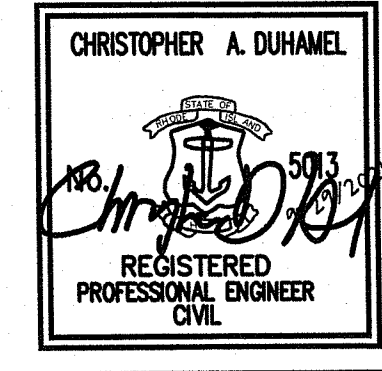
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**RIDEM Submission - Phases 2 & 3**



**PLAN & PROFILE - PHASES 1 and 2**

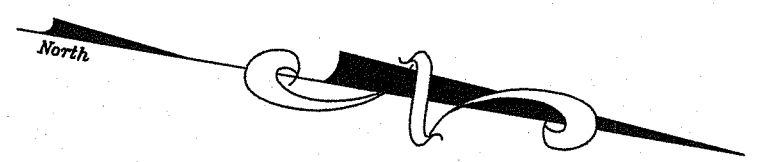
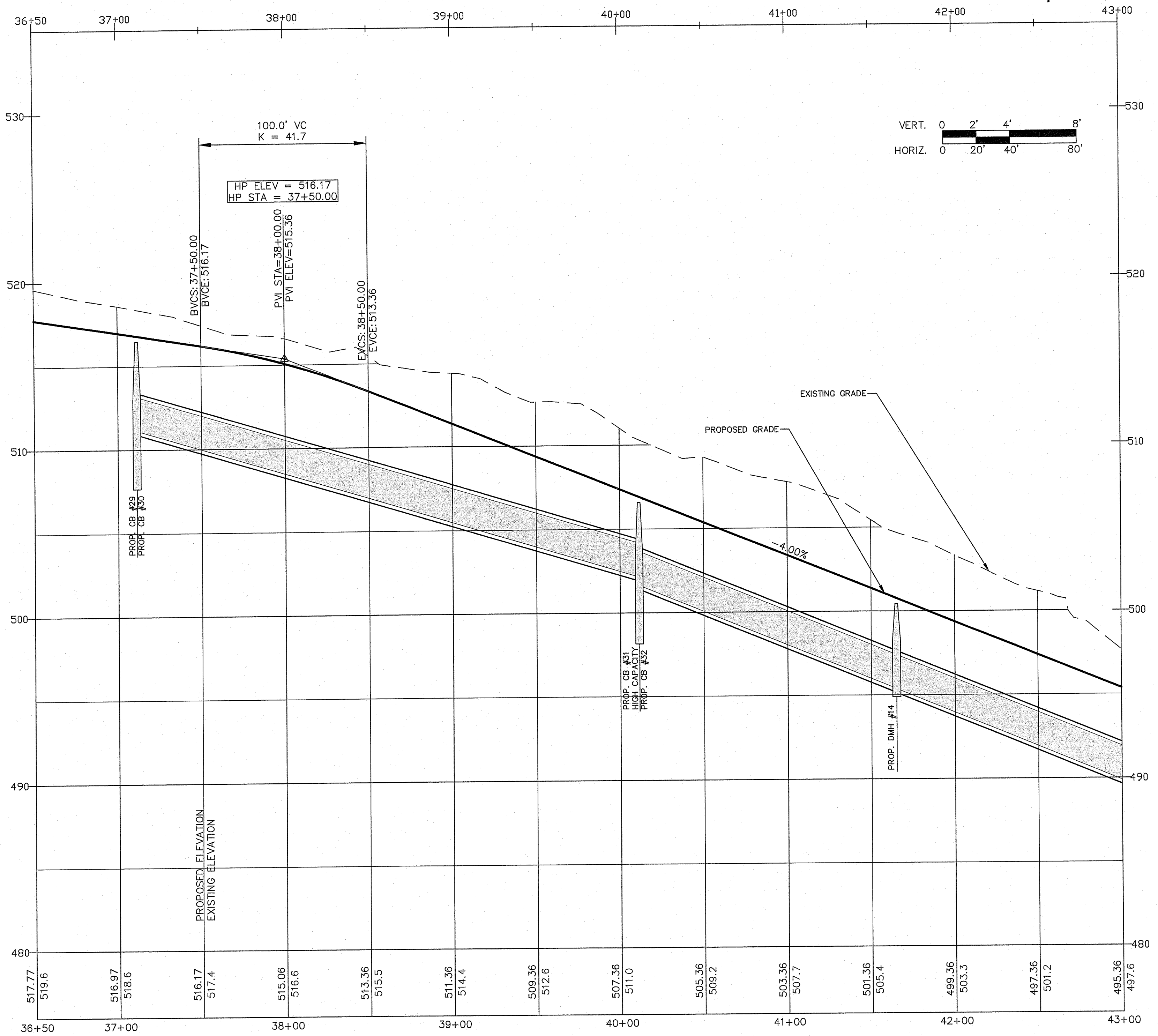
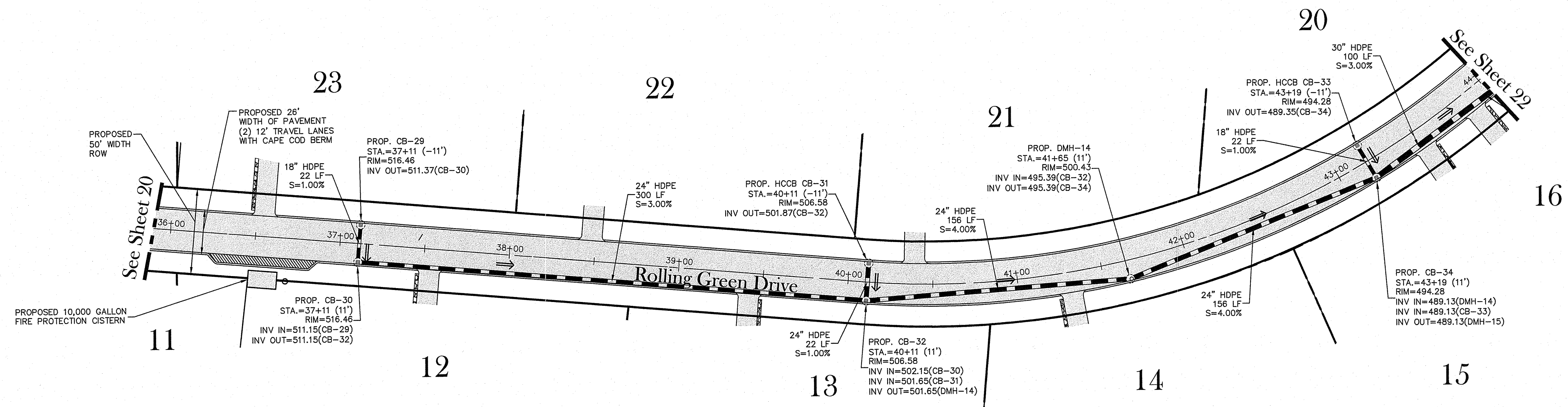
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ASSESSOR'S PLAT 50 LOT 5  
SCITUATE, RHODE ISLAND

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FEBRUARY, 2021  
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2	08-18-2021	FINAL RESPONSE TO COMMENTS	NMP
3	08-18-2021	RIDEM RESPONSE TO COMMENTS	NMP
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**RIDEM Submission - Phases 2 & 3**

CHRISTOPHER A. DUHAMEL  
REGISTERED PROFESSIONAL ENGINEER  
CIVIL

**PLAN & PROFILE - PHASE 2**

**Scituate Highlands**  
ASSESSOR'S PLAT 50 LOT 5  
SCITUATE, RHODE ISLAND

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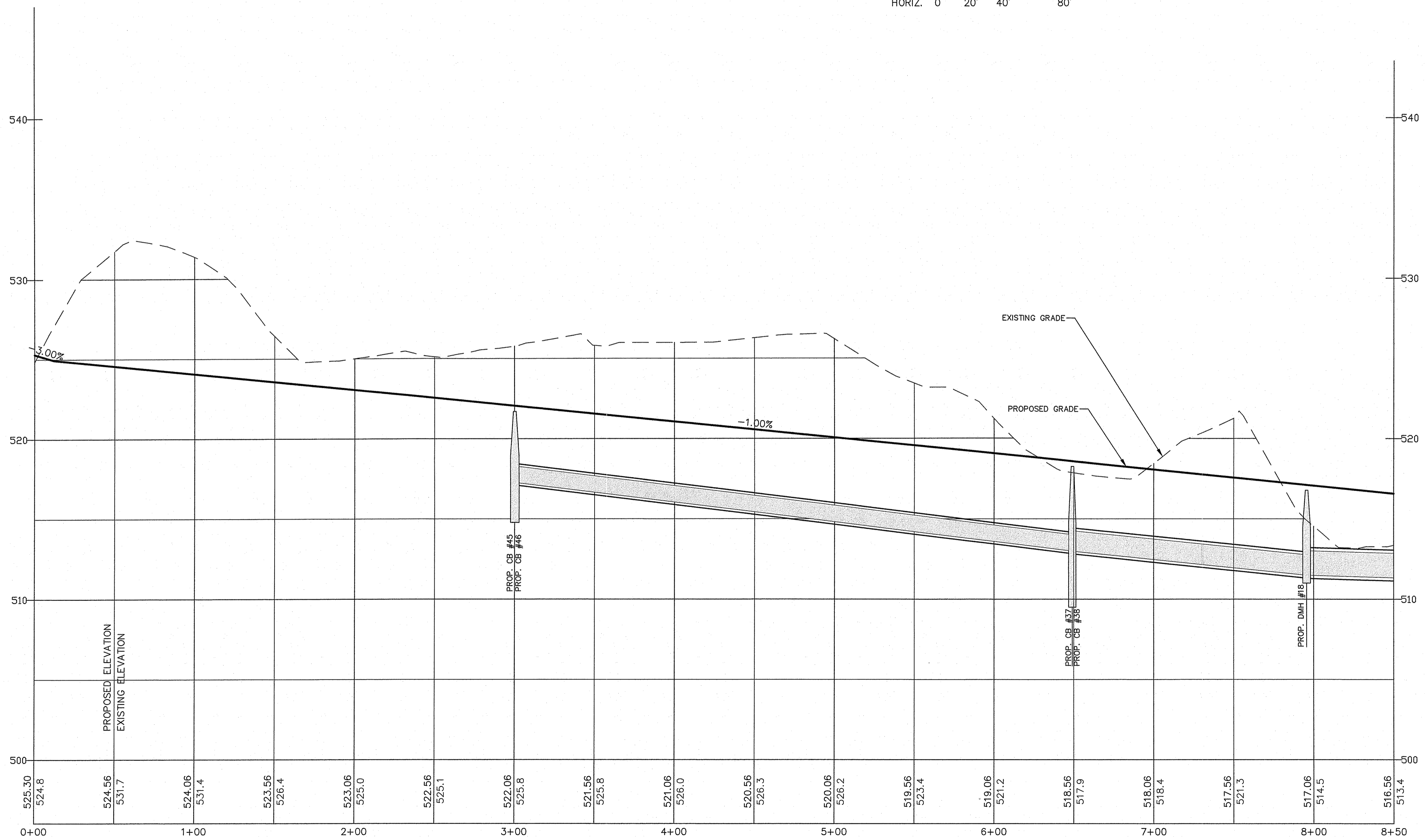
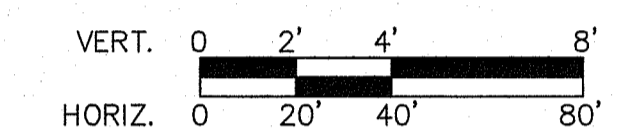
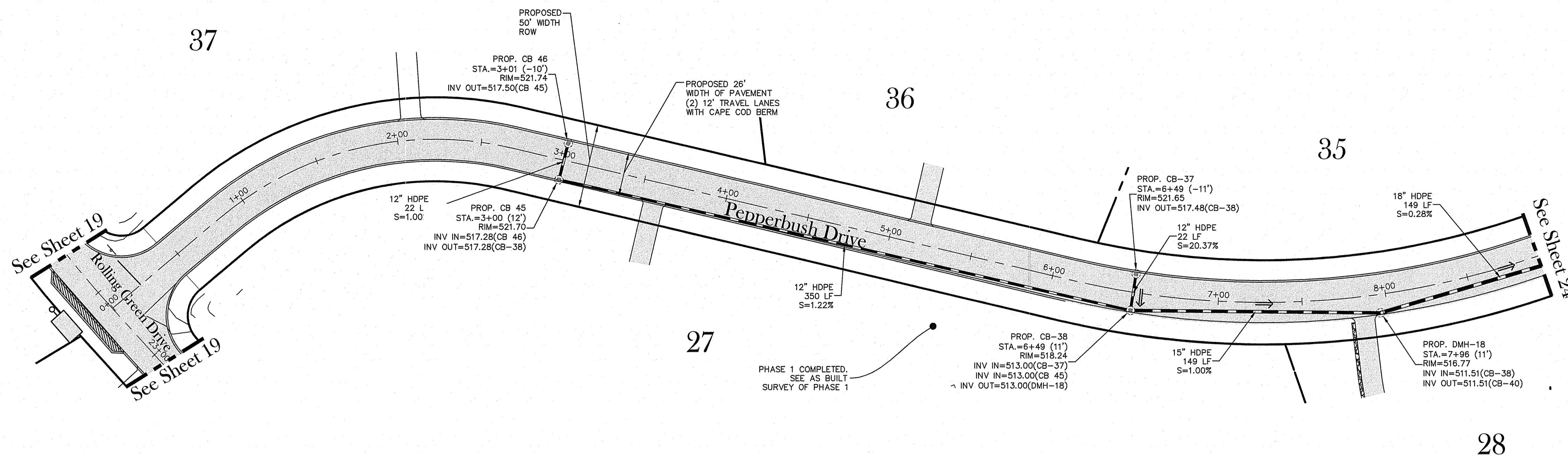
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SHEET 21 OF 29

NO.	DATE	DESCRIPTION	BY
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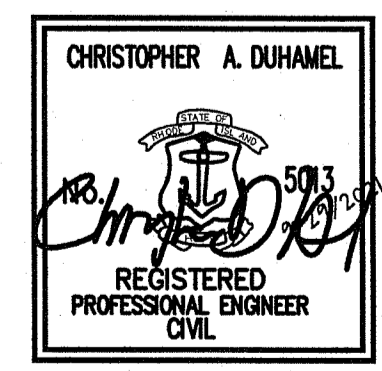


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RIDEM Submission - Phases 2 & 3



PLAN & PROFILE - PHASE 3

**Scituate Highlands**  
ASSESSOR'S PLAT 50 LOT 5  
SCITUATE, RHODE ISLAND

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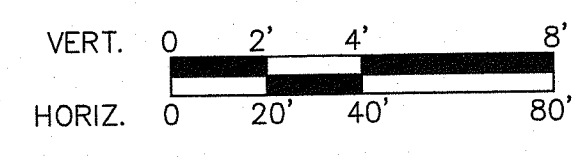
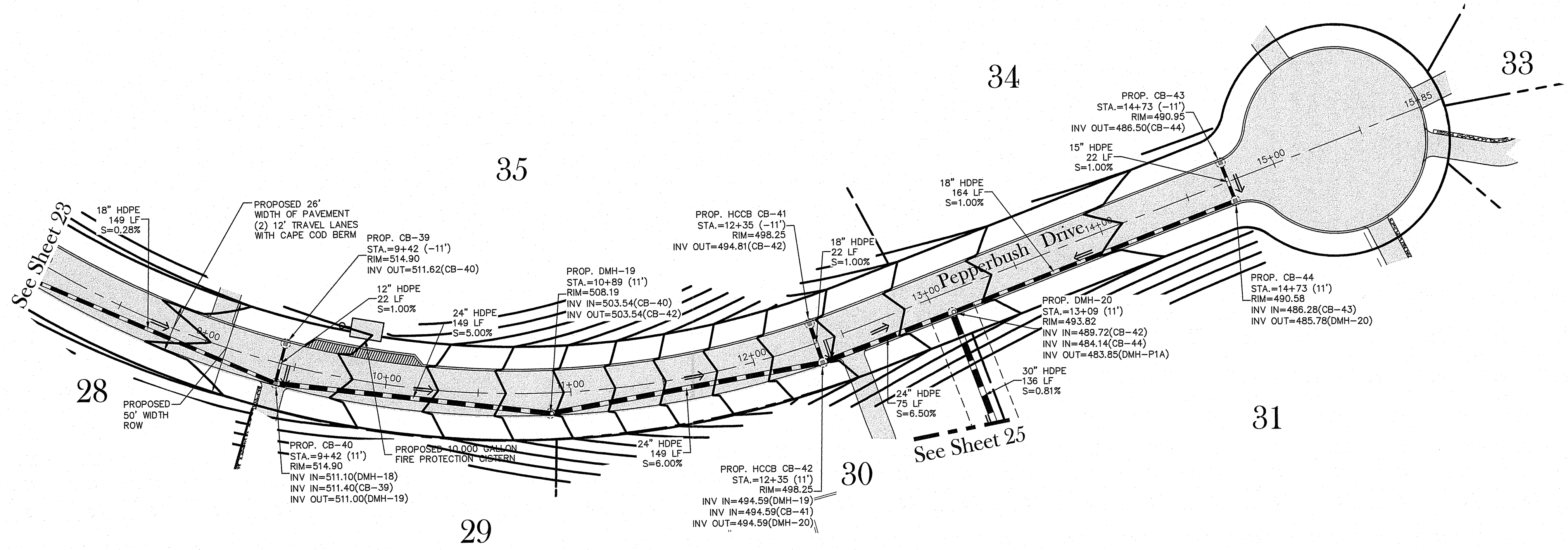
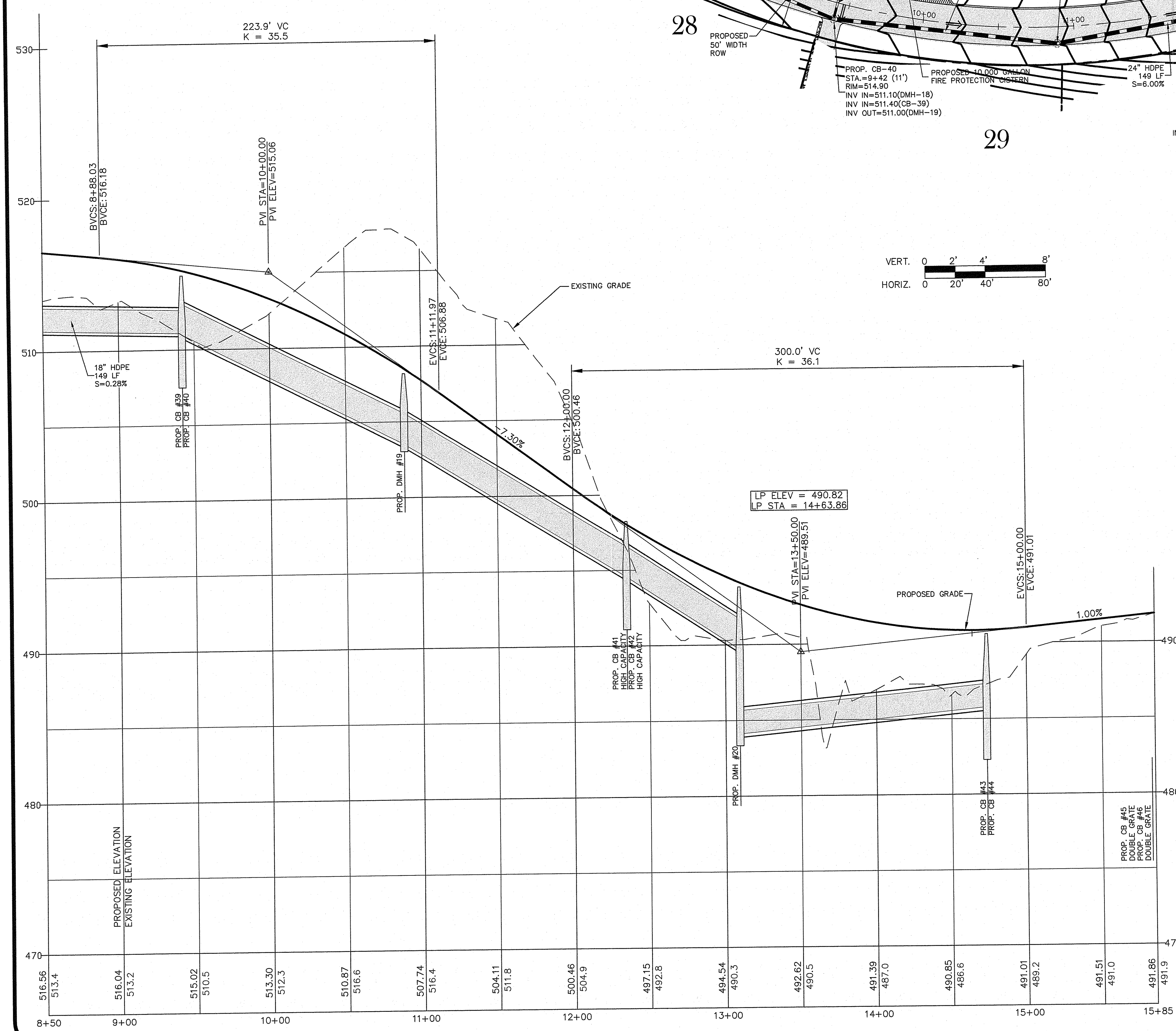
**Scituate Highlands, LLC**  
c/o KALPESH SHAH  
KINGSTOWN, RI 02892  
(401) 286-2035

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FEBRUARY, 2021 WEST KINGSTOWN, RI 02892  
DWN. BY: N.M.P. SHEET 23 OF 29

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RI Environmental Management  
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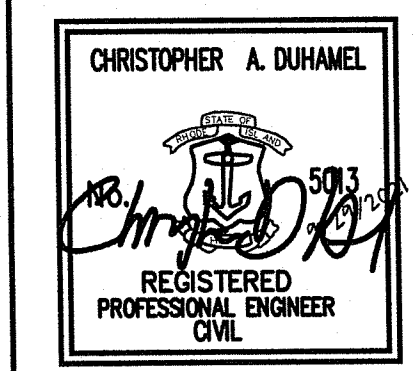
DEPARTMENT OF ENVIRONMENTAL MANAGEMENT  
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**RIDEM Submission - Phases 2 & 3**



**PLAN & PROFILE - PHASE 3**

**Scituate Highlands**

ASSESSOR'S PLAT 50 LOT 5  
 SCITUATE, RHODE ISLAND

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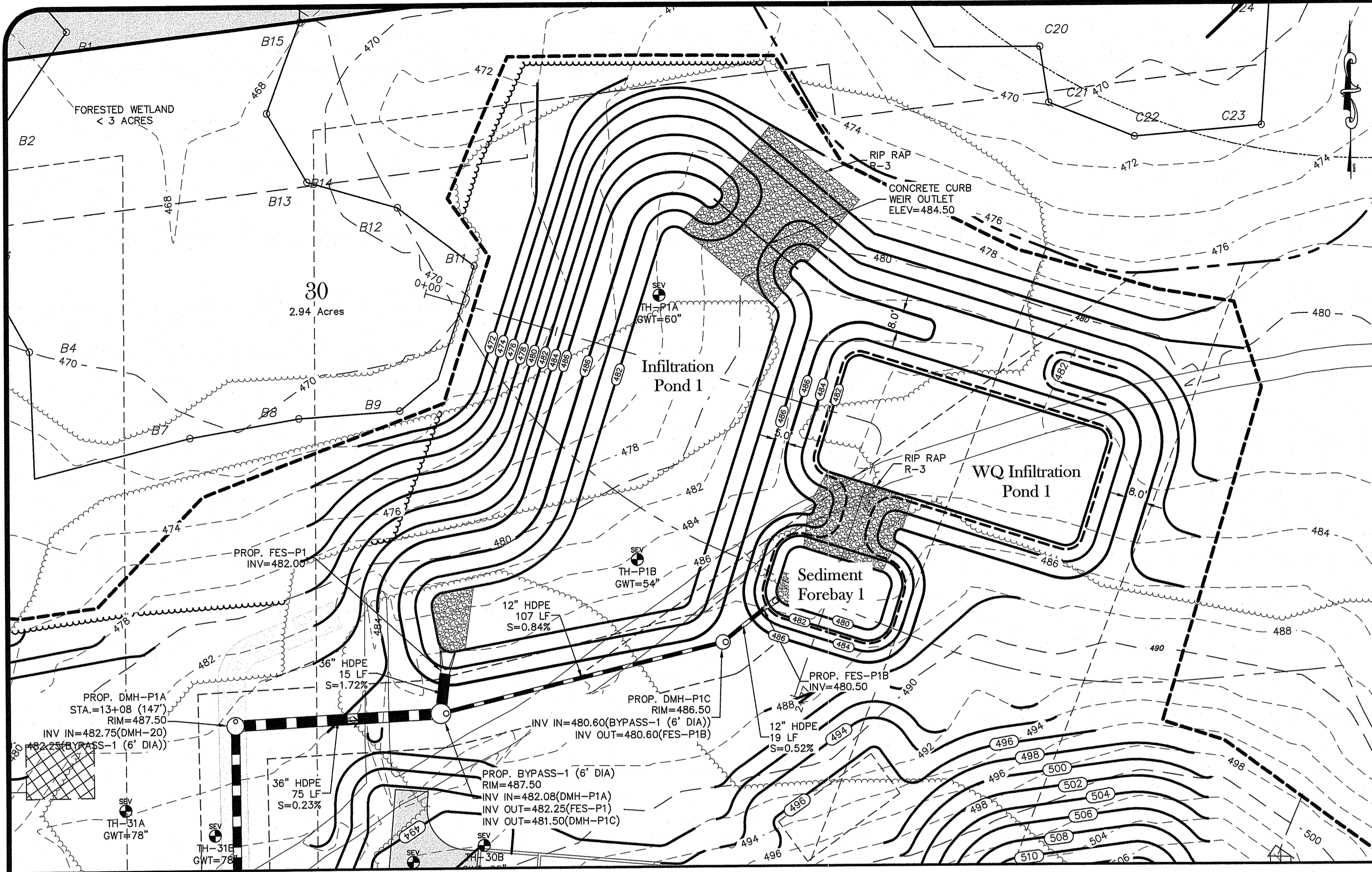
PREPARED FOR: APPLICANT AND OWNER

**Scituate Highlands, LLC**

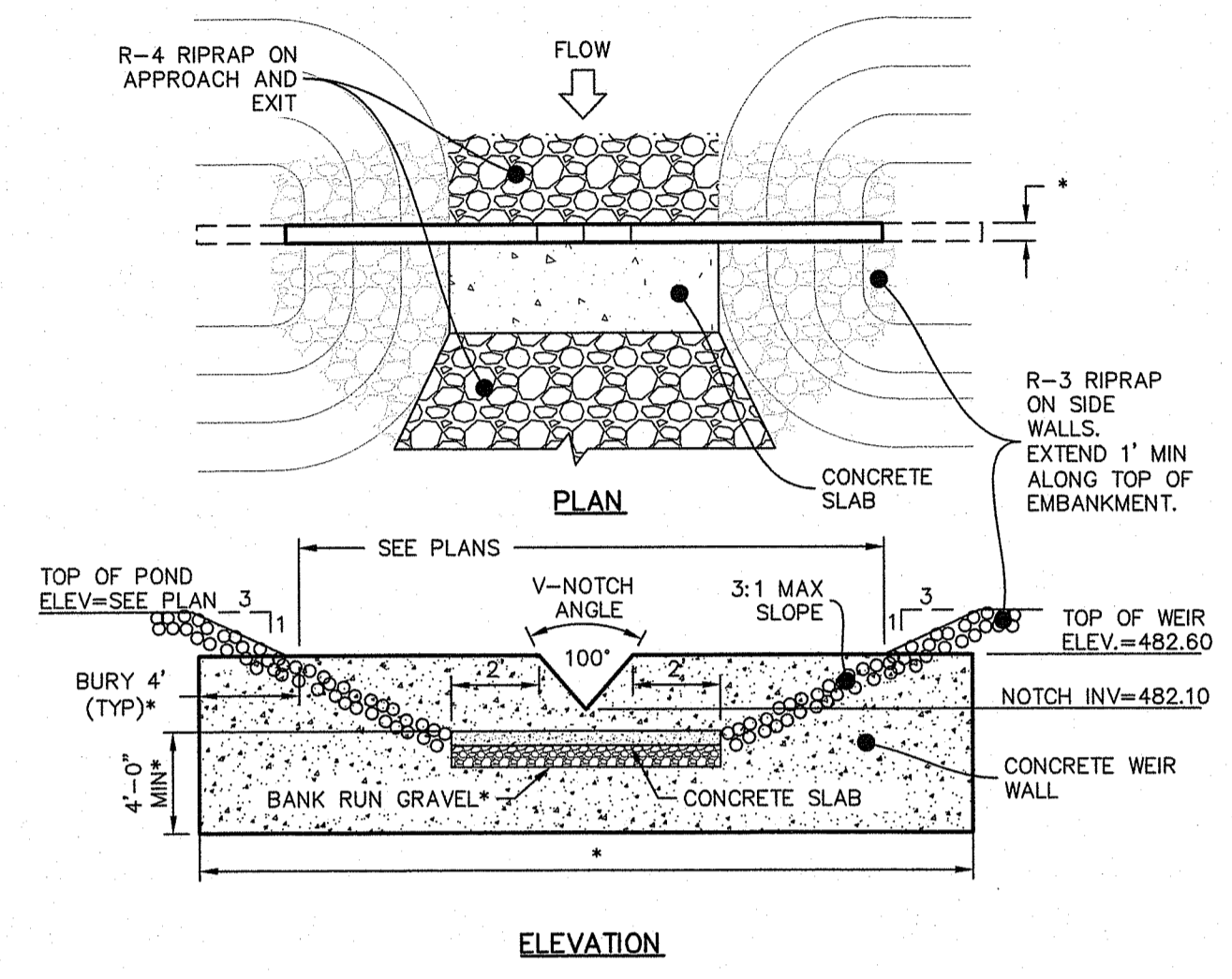
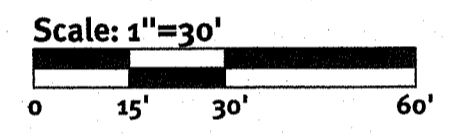
c/o KALPESH SHAH  
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 WEST KINGSTOWN, RI 02892  
 (401) 266-2035

FEBRUARY, 2021  
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SHEET **24** OF 29



Infiltration Pond 1



V-Notch Weir Detail (Concrete Splash Pad)

NOT TO SCALE

\*ALL STRUCTURAL COMPONENTS OF WEIR/ WALL AND SLAB MUST BE DESIGNED AND STAMPED BY A SUITABLY QUALIFIED STRUCTURAL ENGINEER, INCLUDING (BUT NOT LIMITED TO) WEIR WALL & SLAB THICKNESS, WIDTH, DEPTH AND INTERFACE BETWEEN WALL AND OUTLET SLAB.

DESCRIPTION	WQ-1
TOP OF POND ELEVATION	486.00
100 YEAR STORM ELEVATION	485.15
10 YEAR STORM ELEVATION	483.86
1 YEAR STORM ELEVATION	483.56
WQ STORM ELEVATION	481.74
BOTTOM OF POND ELEVATION	482.00
SEASONAL HIGH GWT ELEVATION	479.00
SOIL EVALUATION	TH-P1A

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 SEEDED WITH NEW ENGLAND CONTROL RESTORATION MIX BY NEW ENGLAND WETLAND PLANTS (OR APPROVED EQUAL)

TOP OF POND (5' MINIMUM WIDTH) ELEV: (SEE PLANS) WQ POND INLET ELEV: (SEE PLANS)

TOP OF POND (8' MINIMUM WIDTH) ELEV: (SEE PLANS) SIDE SLOPES (SEE PLANS)

SIDE SLOPES AND TOP OF EMBANKMENTS TO BE 6" OF LOAM OVER NATIVE SOIL OR CLEAN COMPACTED FILL

WQ Infiltration Pond BMP System

NOT TO SCALE

TOP OF POND (5' MINIMUM WIDTH) ELEV: (SEE PLANS)

SEDIMENT FOREBAY TOP: (SEE PLANS) BOTTOM: (SEE PLANS) FOREBAY INLET

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

SUITABLE EXISTING MATERIAL

WQ Infiltration Pond BMP System

NOT TO SCALE

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)

INFILTRATION POND INLET ELEV: (SEE PLANS)

SIDE SLOPES (SEE PLANS)

100 YEAR STORM ELEV. 10 YEAR STORM ELEV. 1 YEAR STORM ELEV. BOTTOM OF POND ELEV: (SEE PLANS)

SUITABLE MATERIAL

SIDE SLOPES AND TOP OF EMBANKMENTS TO BE 6" OF LOAM OVER NATIVE SOIL OR CLEAN COMPACTED FILL

INFILTRATION POND

NOT TO SCALE

EMERGENCY DRAINDOWN PIPE, 6" SOCKED, PERFORATED HOPE PIPE EXTENDED 15' INTO POND

EMERGENCY DRAINDOWN VALVE (DEFAULT: CLOSED POSITION)

OUTLET CONTROL STRUCTURE (SEE DETAIL)

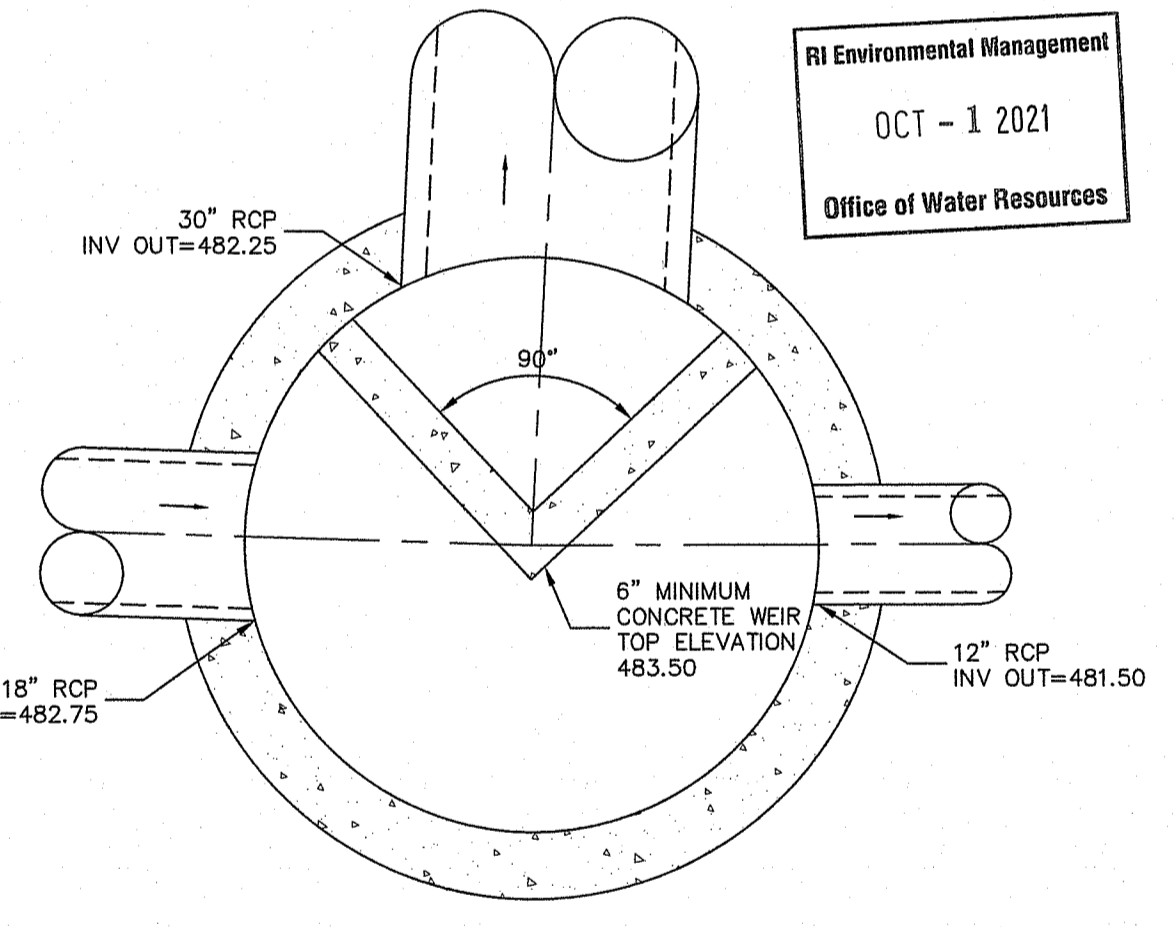
TOP OF POND (8' MINIMUM WIDTH) ELEV: (SEE PLANS)

OVERFLOW WEIR ELEV: (SEE PLANS)

SIDE SLOPES (SEE PLANS)

INFILTRATION POND EAR THEN EMBANKMENT (SEE DETAIL)

DESCRIPTION	QP-1
TOP OF POND ELEVATION	486.00
100 YEAR STORM ELEVATION	484.97
10 YEAR STORM ELEVATION	483.50
1 YEAR STORM ELEVATION	482.06
BOTTOM OF POND ELEVATION	482.00
SEASONAL HIGH GWT ELEVATION	479.50
SOIL EVALUATION	TH-P1B



BYPASS-1 (6"Ø MANHOLE)

SCALE 1"=2'

RI Environmental Management  
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RIDEM Submission - Phases 2 & 3

CHRISTOPHER A. DUHAMEL  
*[Signature]*  
REGISTERED PROFESSIONAL ENGINEER  
CIVIL

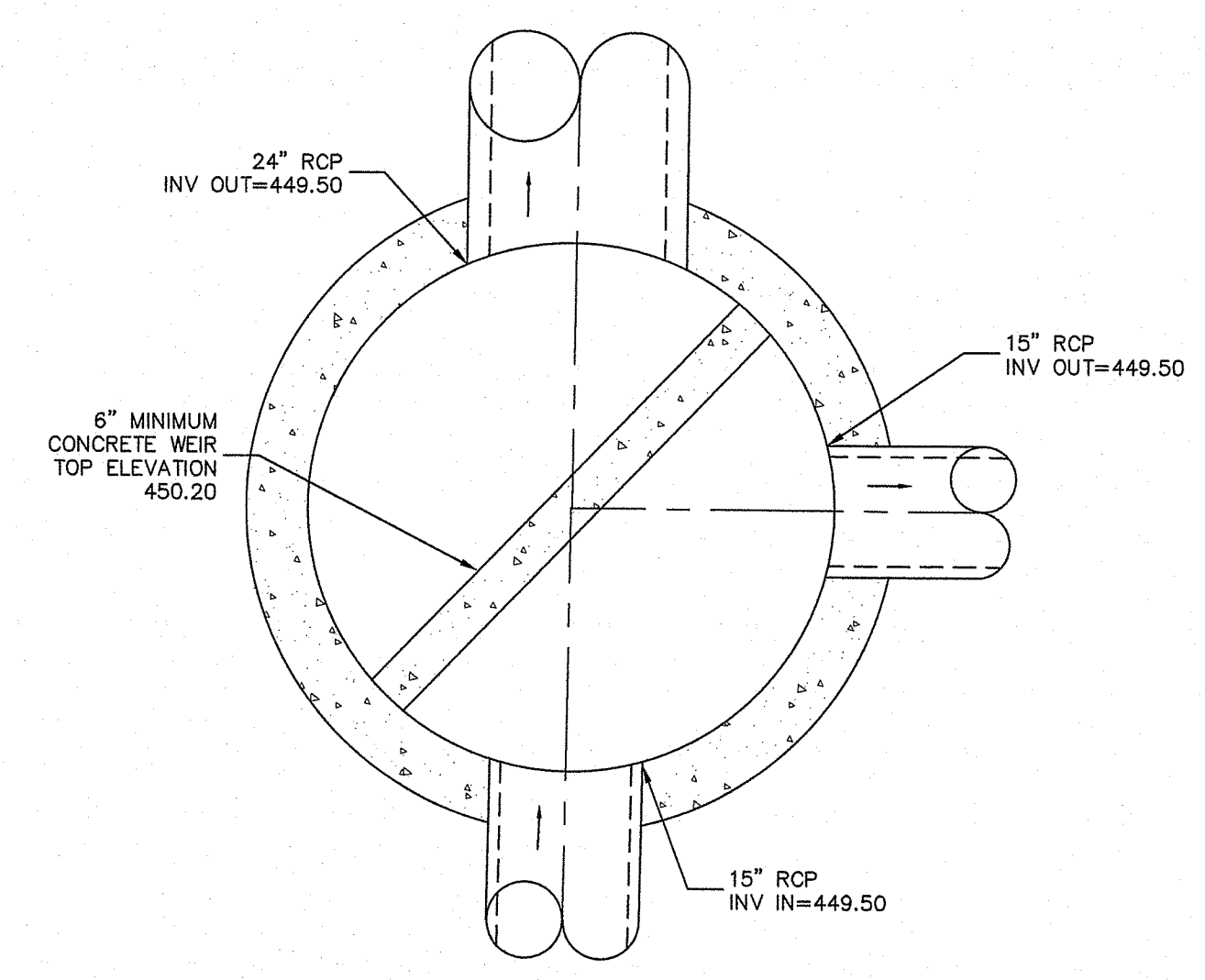
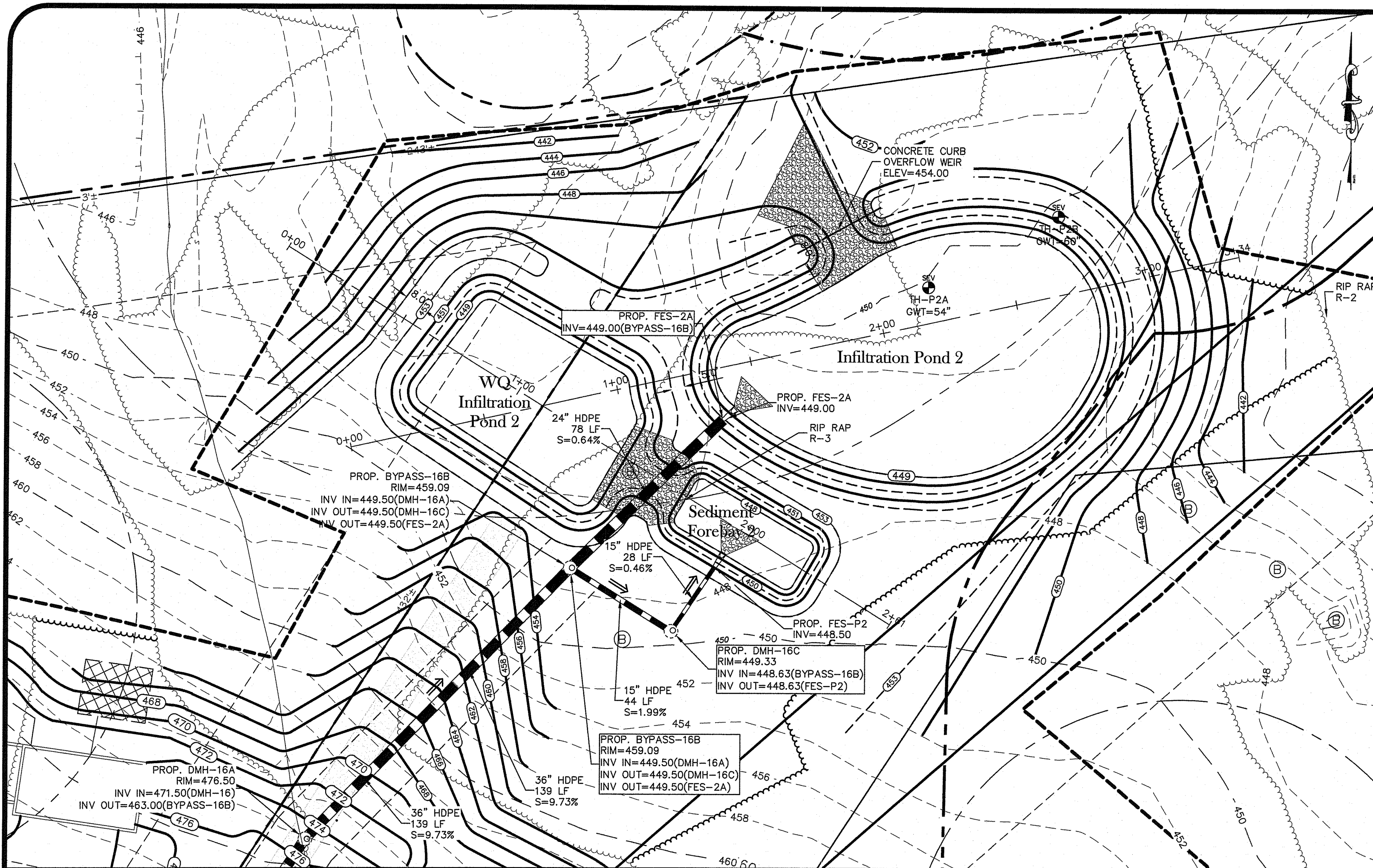
POND 1 DETAILS  
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SHEET 25 OF 29

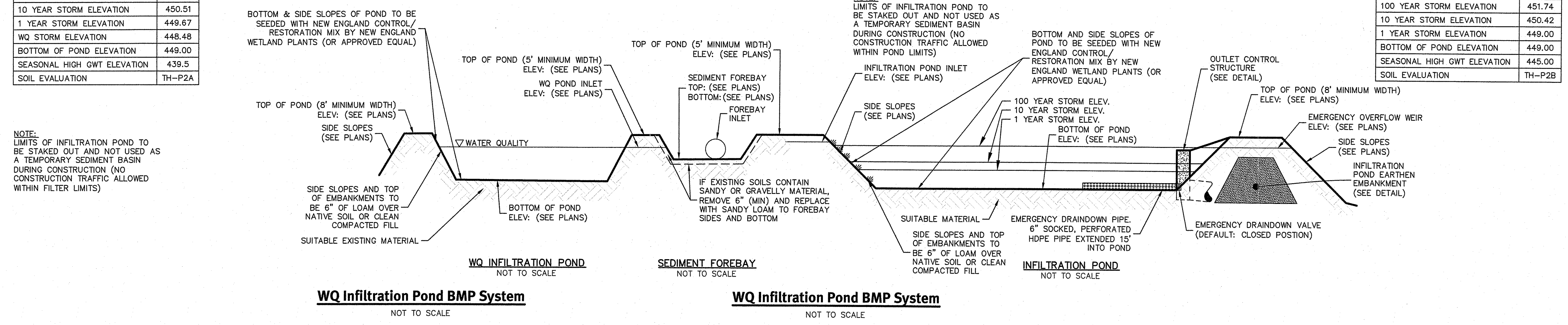


**BYPASS-16B (6" MANHOLE)**  
SCALE 1"=2'

**Infiltration Pond 2**  
Scale: 1"=30'  
0 15' 30' 60'

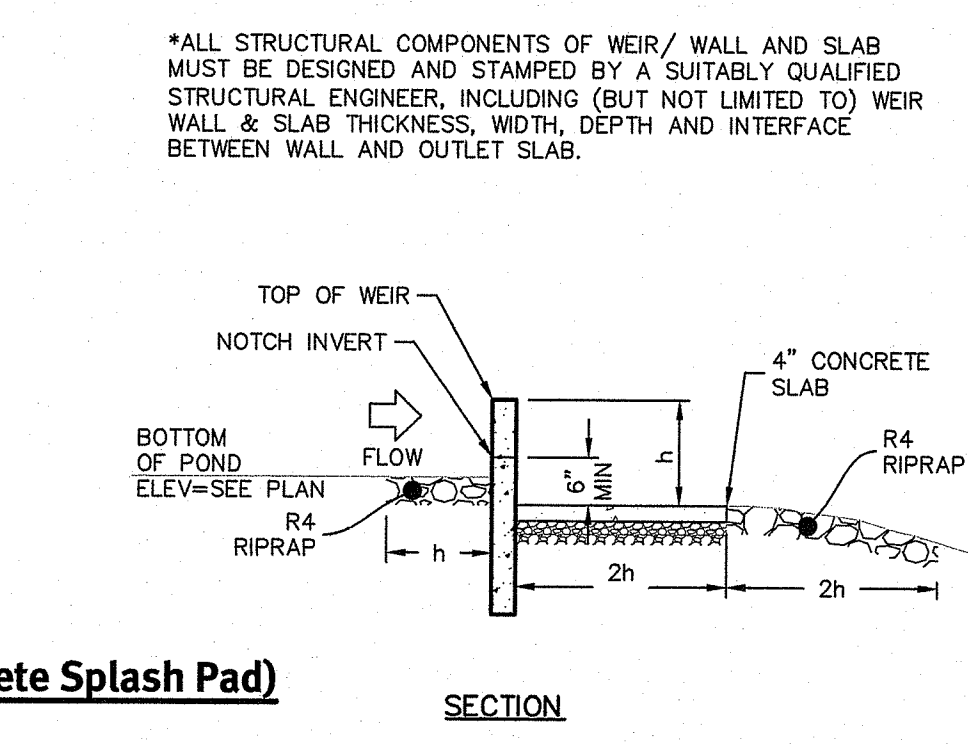
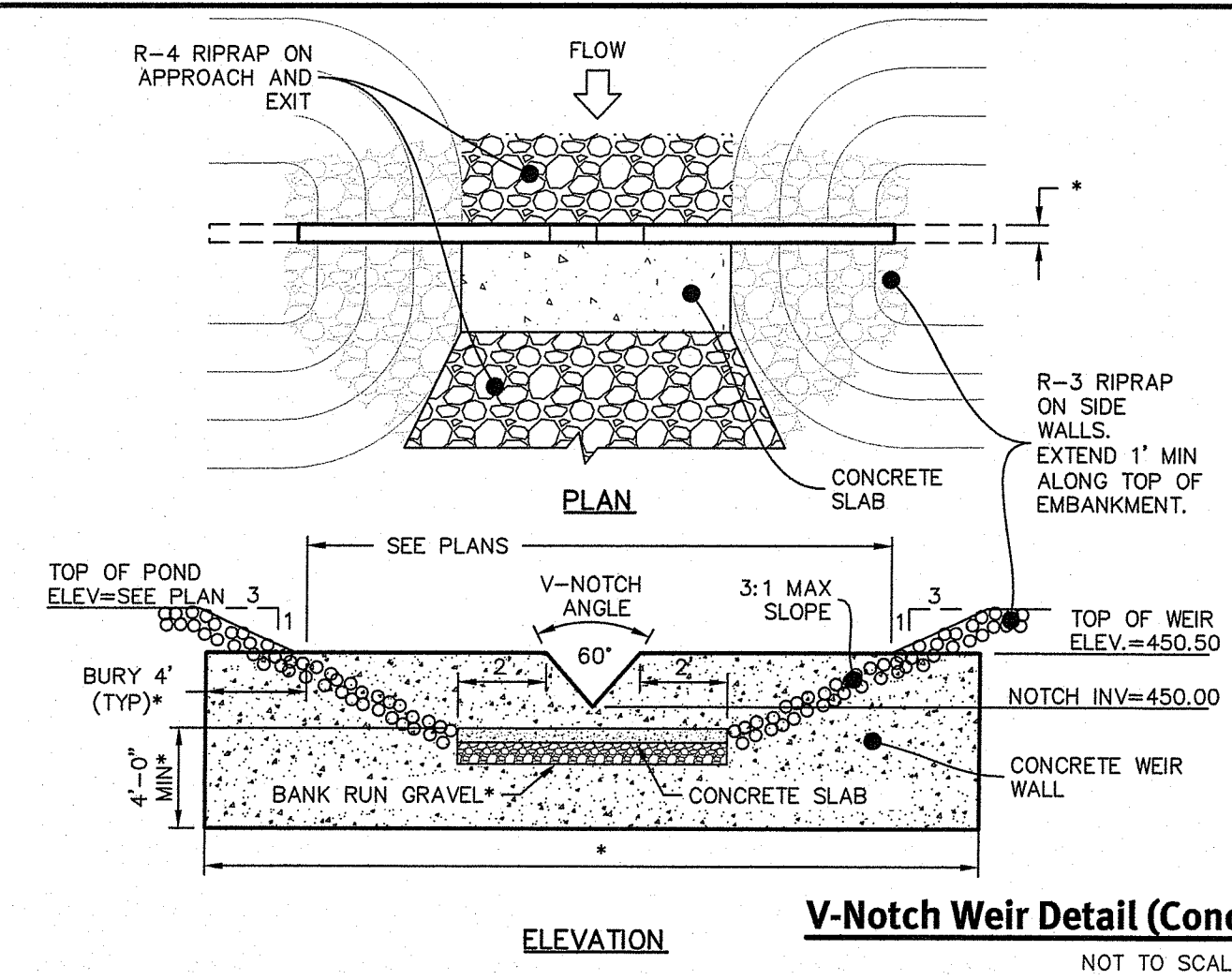
DESCRIPTION	WQ-2
TOP OF POND ELEVATION	453.00
100 YEAR STORM ELEVATION	452.27
10 YEAR STORM ELEVATION	450.51
1 YEAR STORM ELEVATION	449.67
WQ STORM ELEVATION	448.48
BOTTOM OF POND ELEVATION	449.00
SEASONAL HIGH GWT ELEVATION	439.5
SOIL EVALUATION	TH-P2A

DESCRIPTION	QP-2
TOP OF POND ELEVATION	453.00
100 YEAR STORM ELEVATION	451.74
10 YEAR STORM ELEVATION	450.42
1 YEAR STORM ELEVATION	449.00
BOTTOM OF POND ELEVATION	449.00
SEASONAL HIGH GWT ELEVATION	445.00
SOIL EVALUATION	TH-P2B



RI Environmental Management  
OCT - 1 2021  
Office of Water Resources

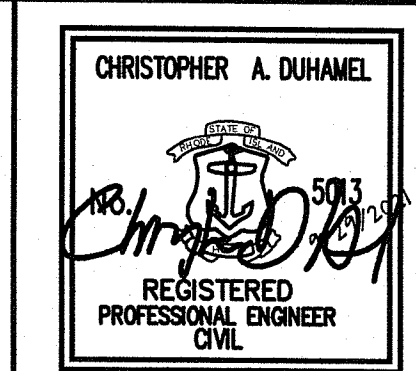
DEPARTMENT OF ENVIRONMENTAL MANAGEMENT  
OFFICE OF WATER RESOURCES  
FRESHWATER WETLANDS PROGRAM  
APPROVED WITH CONDITIONS  
AS SPECIFIED IN THE LETTER OF APPROVAL  
DATED NOV - 2 2021 FILE # 21-0032  
NO CHANGES ALLOWED WITHOUT PRIOR APPROVAL  
APPROVED PLANS MUST BE AT CONSTRUCTION SITE  
*Dwight L. Freeman*



**V-Notch Weir Detail (Concrete Splash Pad)**  
NOT TO SCALE

THIS REGULATORY SUBMISSION SET SHALL NOT BE USED FOR CONSTRUCTION PURPOSES UNLESS STAMPED 'ISSUED FOR CONSTRUCTION' AND SIGNED BY A DIIPE ENGINEERING REPRESENTATIVE.

**RIDEM Submission - Phases 2 & 3**



**POND 2 DETAILS**

**Scituate Highlands**  
ASSESSOR'S PLAT 50 LOT 5  
SCITUATE, RHODE ISLAND

PREPARED BY  
**DiPrete Engineering Associates, Inc.**  
ENGINEERING, SURVEYING AND PLANNING CONSULTANTS

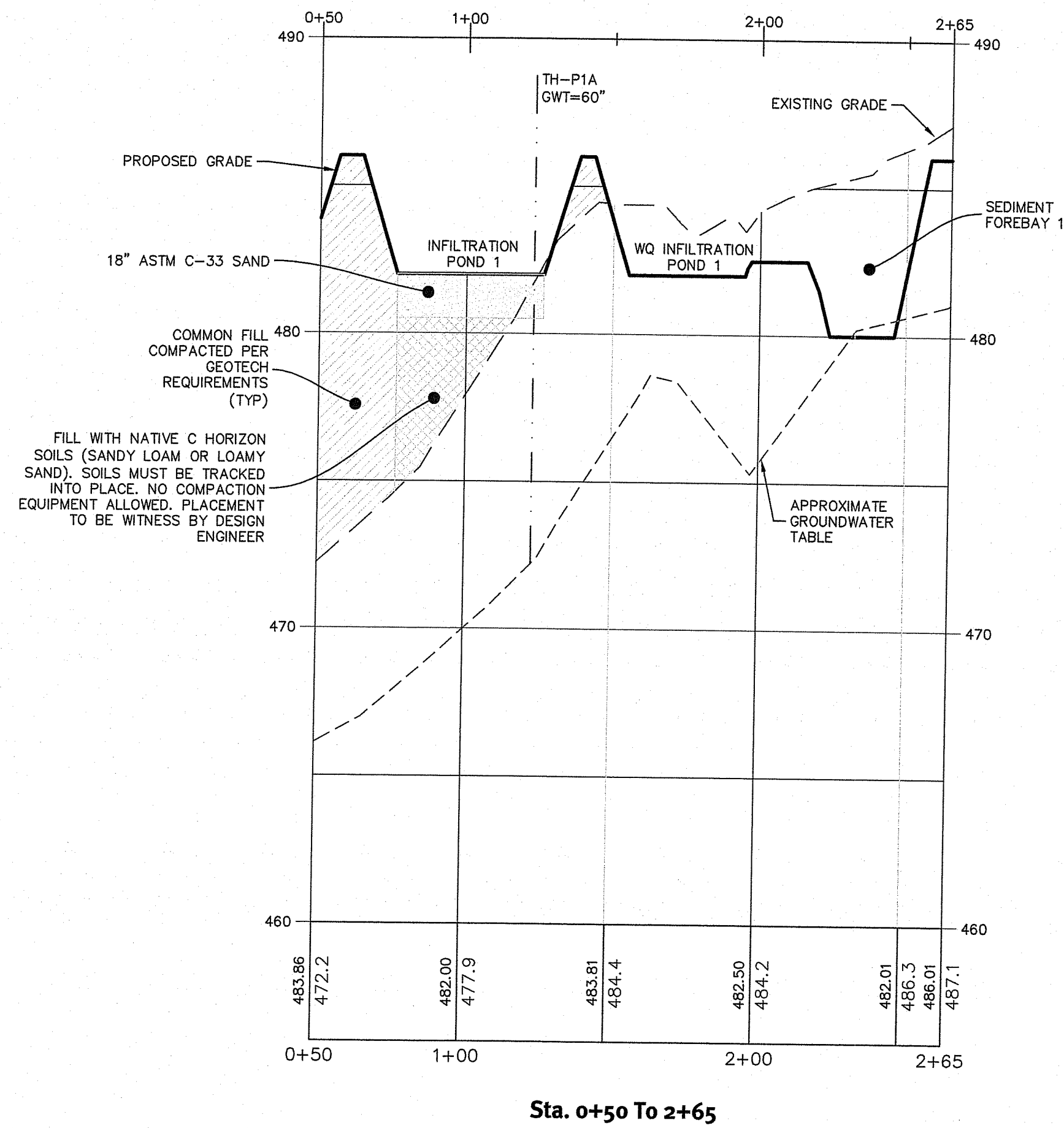
TWO STAFFORD COURT  
CRANSTON, R.I. 02920  
(401) 943-1000 FAX: (401) 464-6006

PREPARED FOR: APPLICANT AND OWNER

**Scituate Highlands, LLC**

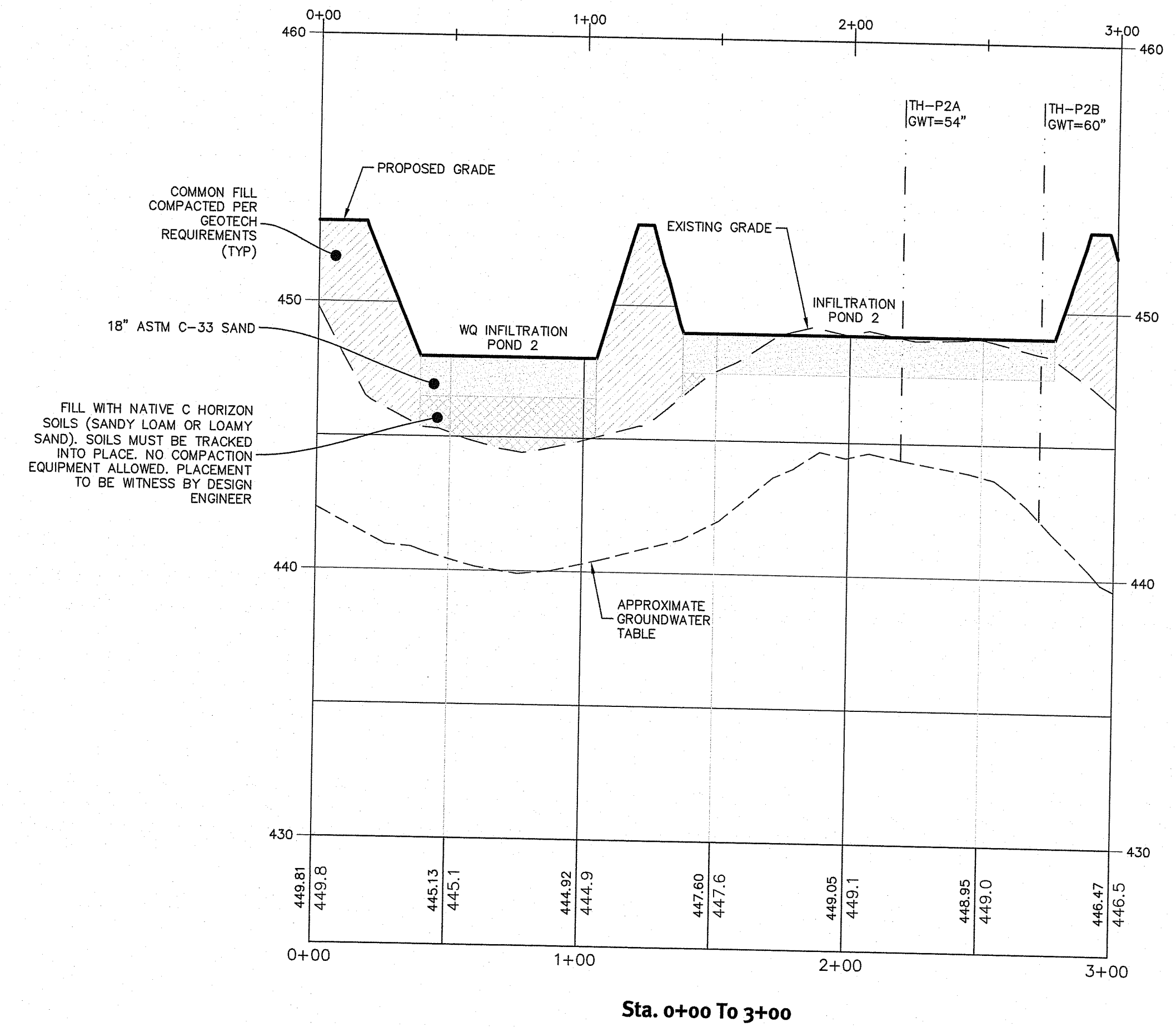
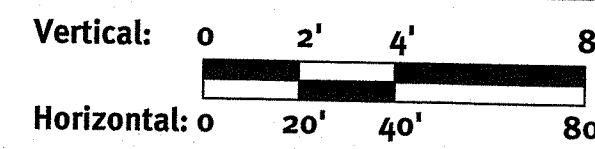
c/o KALPESH SHAH  
KINGSTOWN ROAD  
WEST KINGSTOWN, RI 02892  
(401) 286-2035

NO.	DATE	DESCRIPTION	BY
3	08-28-2021	RIDEM RESPONSE TO COMMENTS	SR
2	08-19-2021	RIDEM RESPONSE TO COMMENTS	NMP
1	08-25-2021	RIDEM RESPONSE TO COMMENTS	NMP
0	02-16-2021	PRELIMINARY DETERMINATIVE SUBMISSION	KMR



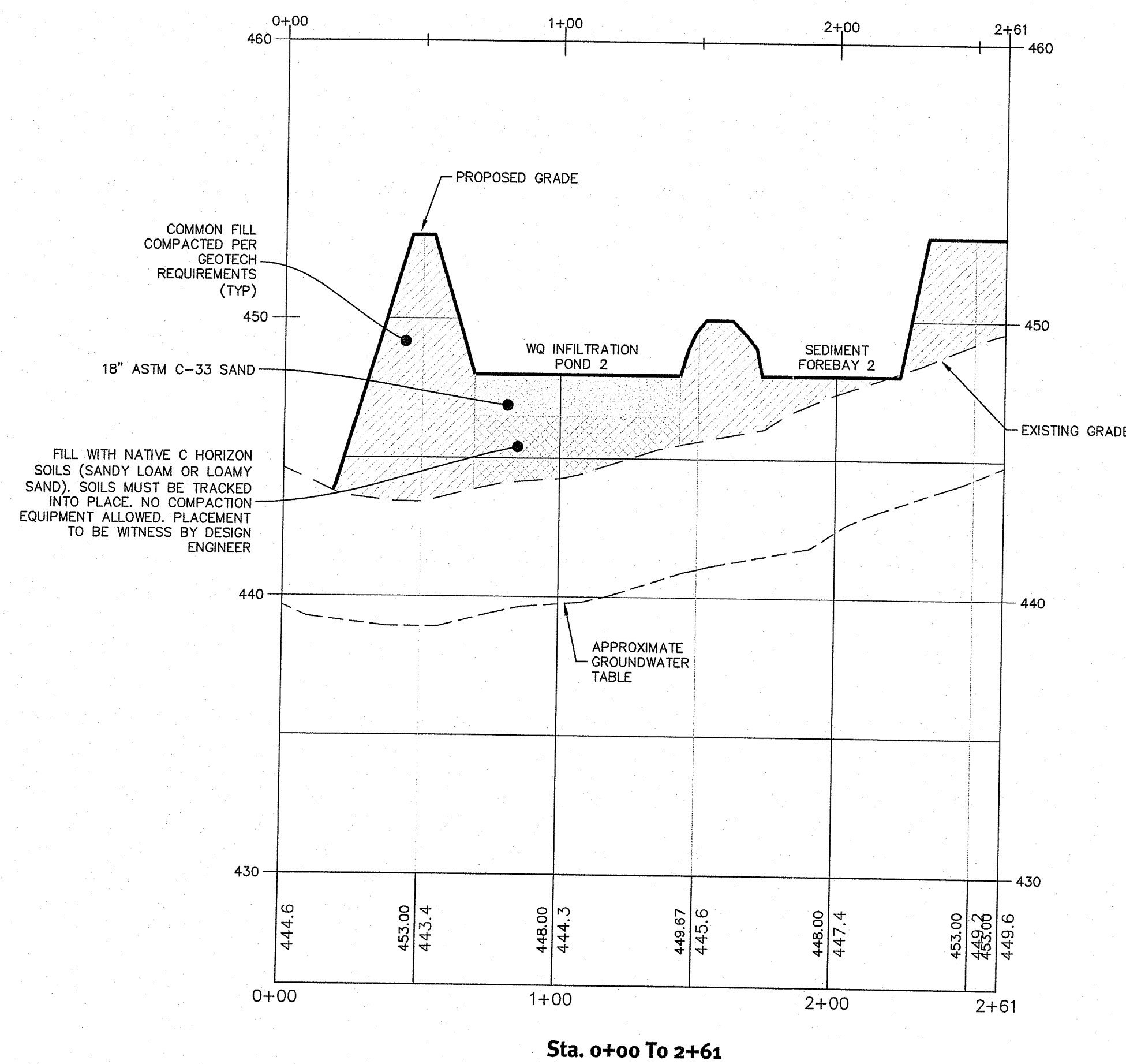
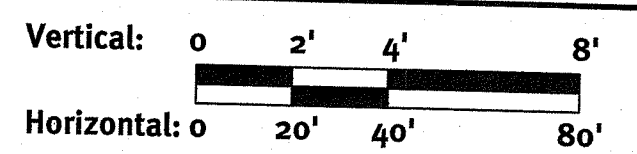
Sta. 0+50 To 2+65

CROSS SECTION 1-A



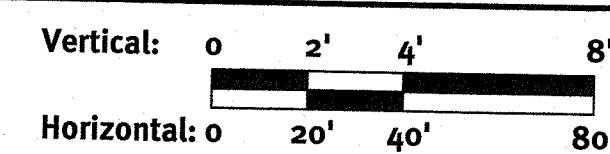
Sta. 0+00 To 3+00

CROSS SECTION 2-A



Sta. 0+00 To 2+61

CROSS SECTION 2-B



RI Environmental Management  
OCT - 1 2021  
Office of Water Resources

DEPARTMENT OF ENVIRONMENTAL MANAGEMENT  
OFFICE OF WATER RESOURCES  
FRESHWATER WETLANDS PROGRAM  
APPROVED WITH CONDITIONS  
AS SPECIFIED IN THE LETTER OF APPROVAL  
DATED NOV - 2 2021 FILE # 21-0032  
NO CHANGES ALLOWED WITHOUT PRIOR APPROVAL  
APPROVED PLANS MUST BE AT CONSTRUCTION SITE  
*Nancy L. Freeman*

THIS REGULATORY SUBMISSION SET SHALL NOT BE USED FOR CONSTRUCTION PURPOSES UNLESS STAMPED, ISSUED FOR CONSTRUCTION AND SIGNED BY A DIPRETE ENGINEERING REPRESENTATIVE.

RIDEM Submission - Phases 2 & 3

CHRISTOPHER A. DUHAMEL  
REGISTERED PROFESSIONAL ENGINEER  
CIVIL

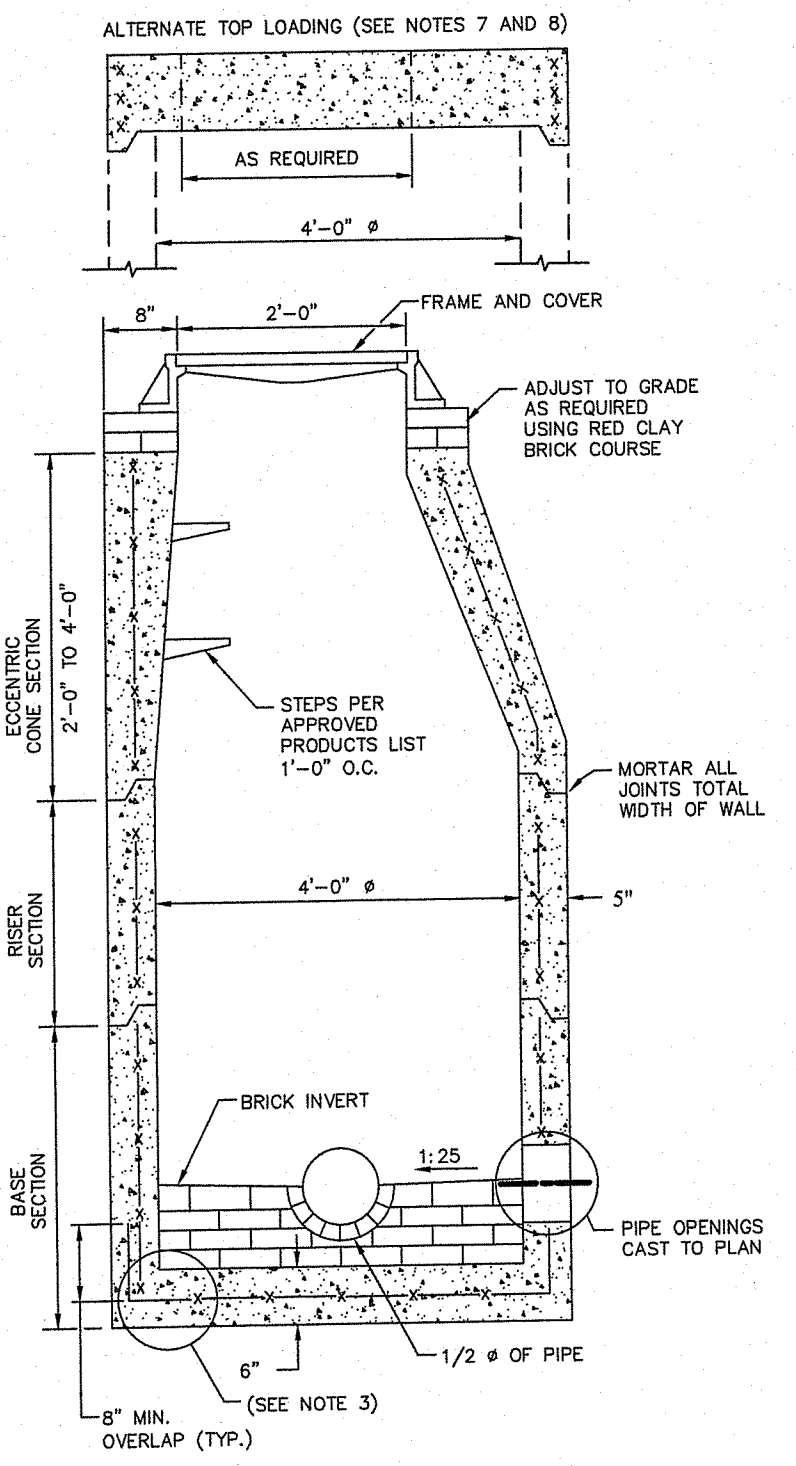
POND PROFILES  
**Scituate Highlands**  
ASSESSOR'S PLAT 50 LOT 5  
SCITUATE, RHODE ISLAND

PREPARED BY  
**DiPrete Engineering Associates, Inc.**  
ENGINEERING, SURVEYING AND PLANNING CONSULTANTS  
TWO STAFFORD COURT  
CRANSTON, R.I. 02920  
(401) 943-1000 FAX: (401) 464-6006  
PREPARED FOR: APPLICANT AND OWNER

**Scituate Highlands, LLC**  
c/o KALPESH SHAH  
KINGSTOWN ROAD  
WEST KINGSTOWN, RI 02892  
(401) 286-2035

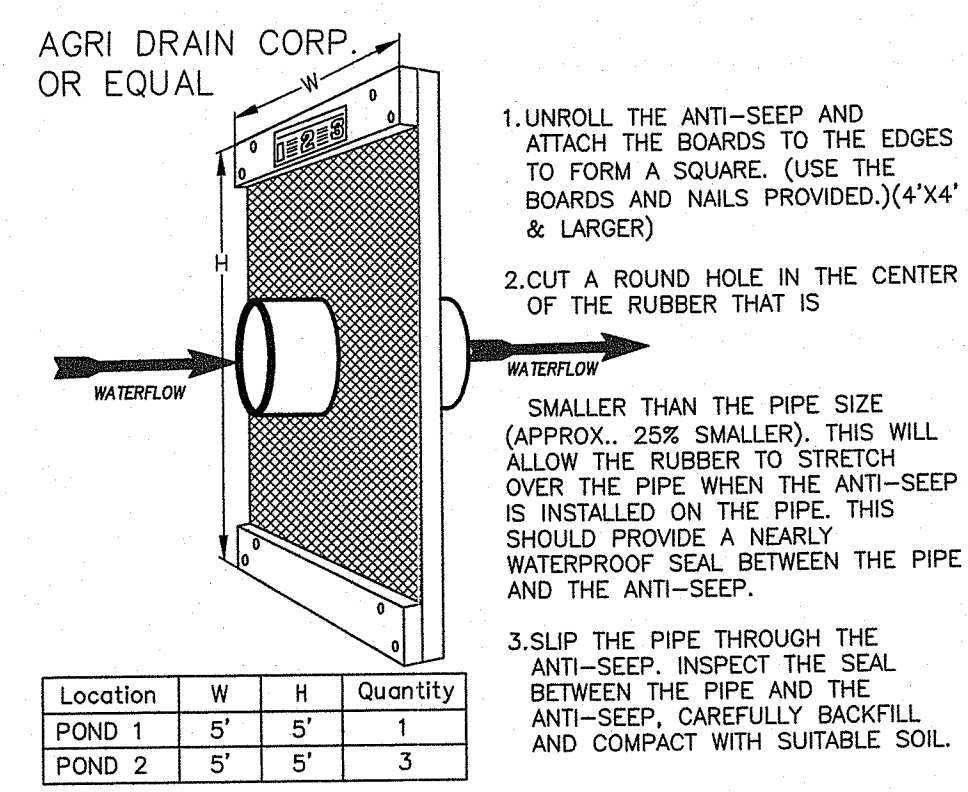
NO.	DATE	DESCRIPTION	BY
3	09-28-2021	RIDEM RESPONSE TO COMMENTS	SR
2	08-19-2021	RIDEM RESPONSE TO COMMENTS	NMP
1	06-25-2021	RIDEM RESPONSE TO COMMENTS	NMP
0	02-05-2021	PRELIMINARY DETERMINATION SUBMISSION	KMR

FEBRUARY, 2021  
DWN. BY: N.M.P.  
WEST KINGSTOWN, RI 02892  
(401) 286-2035  
SHEET 27 OF 29



- NOTES:
- SHALL BE IN ACCORDANCE WITH SECTION 702 OF THE R.I. STANDARD SPECIFICATIONS.
  - CIRCUMFERENTIAL STEEL REINFORCEMENT REQUIRED = 0.12 SQ. IN. / LIN. FT. MINIMUM.
  - STEEL REINFORCEMENT FOR BASE SECTION BOTTOM SHALL BE A MINIMUM OF 0.12 SQ. IN./LIN. FT. (BOTH WAYS).
  - ONE POUR MORTLING BASE SECTION.
  - ANY NECESSARY ADJUSTMENTS DURING CONSTRUCTION WILL BE DONE BY SAW-CUTTING AND/OR CORING ONLY. NO JACKHAMMERS, HAMMERS AND CHISELS OR PNEUMATIC TOOLS WILL BE ALLOWED.
  - STEPS SHALL CONFORM TO STD. 5.3.0 AND SHALL BE INSTALLED AT THE CASTING PLANT.
  - ALTERNATE TOP SLAB IS ONLY FOR USE WHEN REDUCING SECTION DOES NOT FIT BECAUSE OF STRUCTURE DEPTH.
  - REFER TO STD. 5.2.0 FOR MAXIMUM PIPE SIZES.

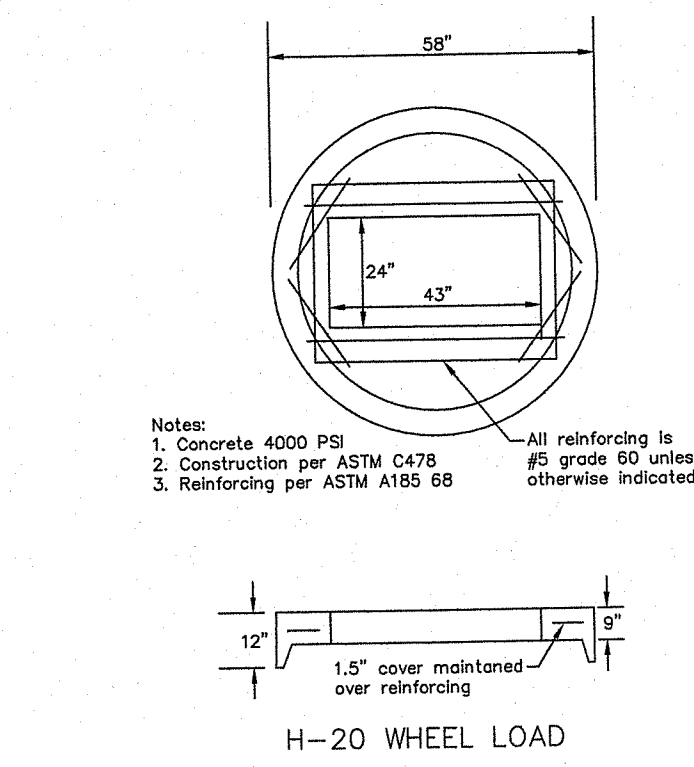
**PRECAST 4'-0" ROUND MANHOLE**  
NOT TO SCALE  
R.I. STANDARD 4.2.0



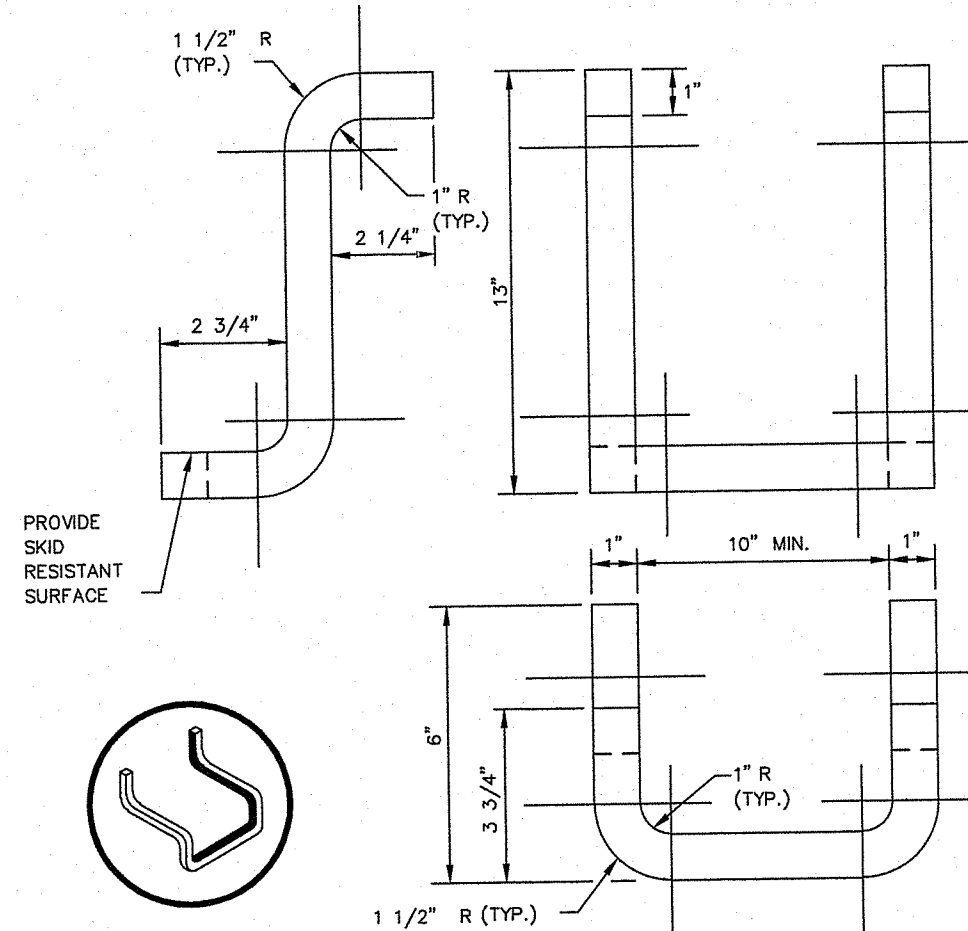
- AGRI DRAIN CORP. OR EQUAL
- UNROLL THE ANTI-SEEP AND ATTACH THE BOARDS TO THE EDGES TO FORM A SQUARE. (USE THE BOARDS AND NAILS PROVIDED.) (4"x4" & LARGER)
  - CUT A ROUND HOLE IN THE CENTER OF THE RUBBER THAT IS SMALLER THAN THE PIPE SIZE (APPROX. 25% SMALLER). THIS WILL ALLOW THE RUBBER TO STRETCH OVER THE PIPE. WHEN THE ANTI-SEEP IS INSTALLED ON THE PIPE, THIS SHOULD PROVIDE A NEARLY WATERPROOF SEAL BETWEEN THE PIPE AND THE ANTI-SEEP.
  - SLIP THE PIPE THROUGH THE ANTI-SEEP. INSPECT THE SEAL BETWEEN THE PIPE AND THE ANTI-SEEP. CAREFULLY BACKFILL AND COMPACT WITH SUITABLE SOIL.

Location	W	H	Quantity
POND 1	5'	5'	1
POND 2	5'	5'	3

**ANTI-SEEP COLLAR**  
NOT TO SCALE

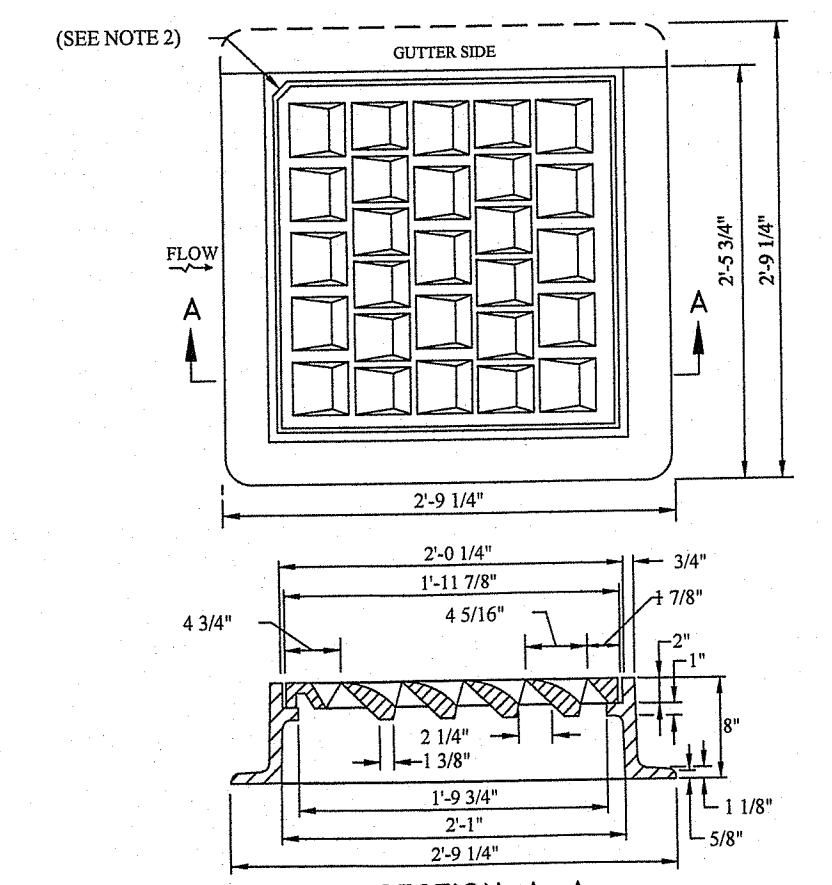


**4' DIA. DOUBLE OPENING SLAB COVER**  
FIORE CONCRETE PRODUCTS (OR EQUAL)  
NOT TO SCALE



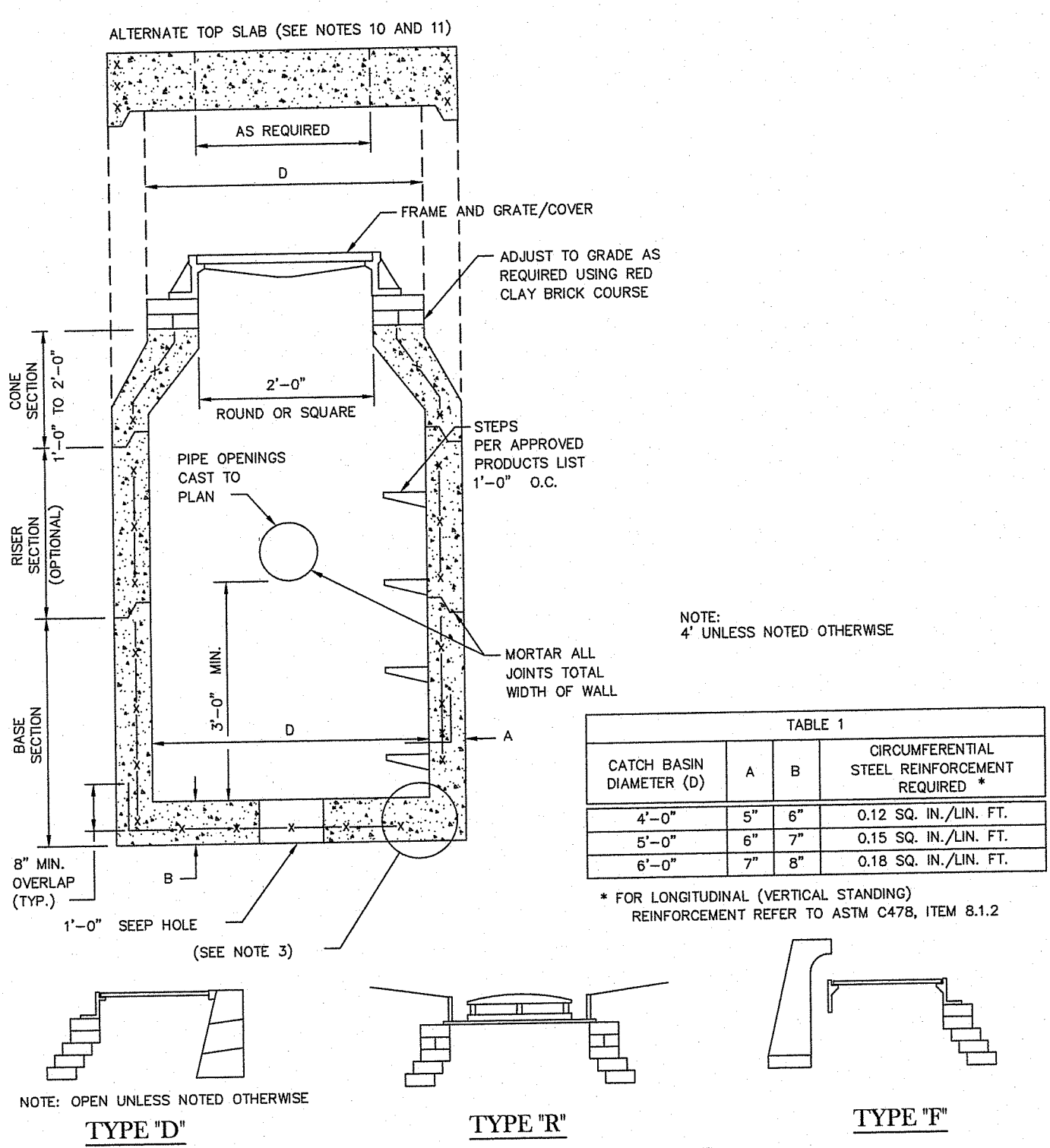
- NOTES:
- STEPS SHALL CONFORM TO SECTION M.0.4 OF THE R.I. STANDARD SPECIFICATIONS.
  - CROSS SECTION AREA MAY BE REDUCED UPON SUBMISSION OF CERTIFIED LOAD TESTS. STEPS MUST SUPPORT 300 LBS.
  - STOCK SHOWN IS 1" SQUARE WHICH MAY BE REPLACED BY 1" DIAMETER.

**CATCH BASIN AND MANHOLE STEP**  
NOT TO SCALE  
R.I. STANDARD 5.3.0



- NOTES:
- FRAME AND COVER SHALL CONFORM TO SECTION M.0.4 OF THE R.I. STANDARD SPECIFICATIONS.
  - THIS CORNER LEFT FOR 'LEFT' GRATE, DIAGONALLY OPPOSITE CORNER FOR 'RIGHT' GRATE TO FIT IN KEYPED FRAME.

**HIGH CAPACITY FRAME AND GRATE**  
(BICYCLE SAFE)  
NOT TO SCALE  
R.I. STANDARD 6.3.4



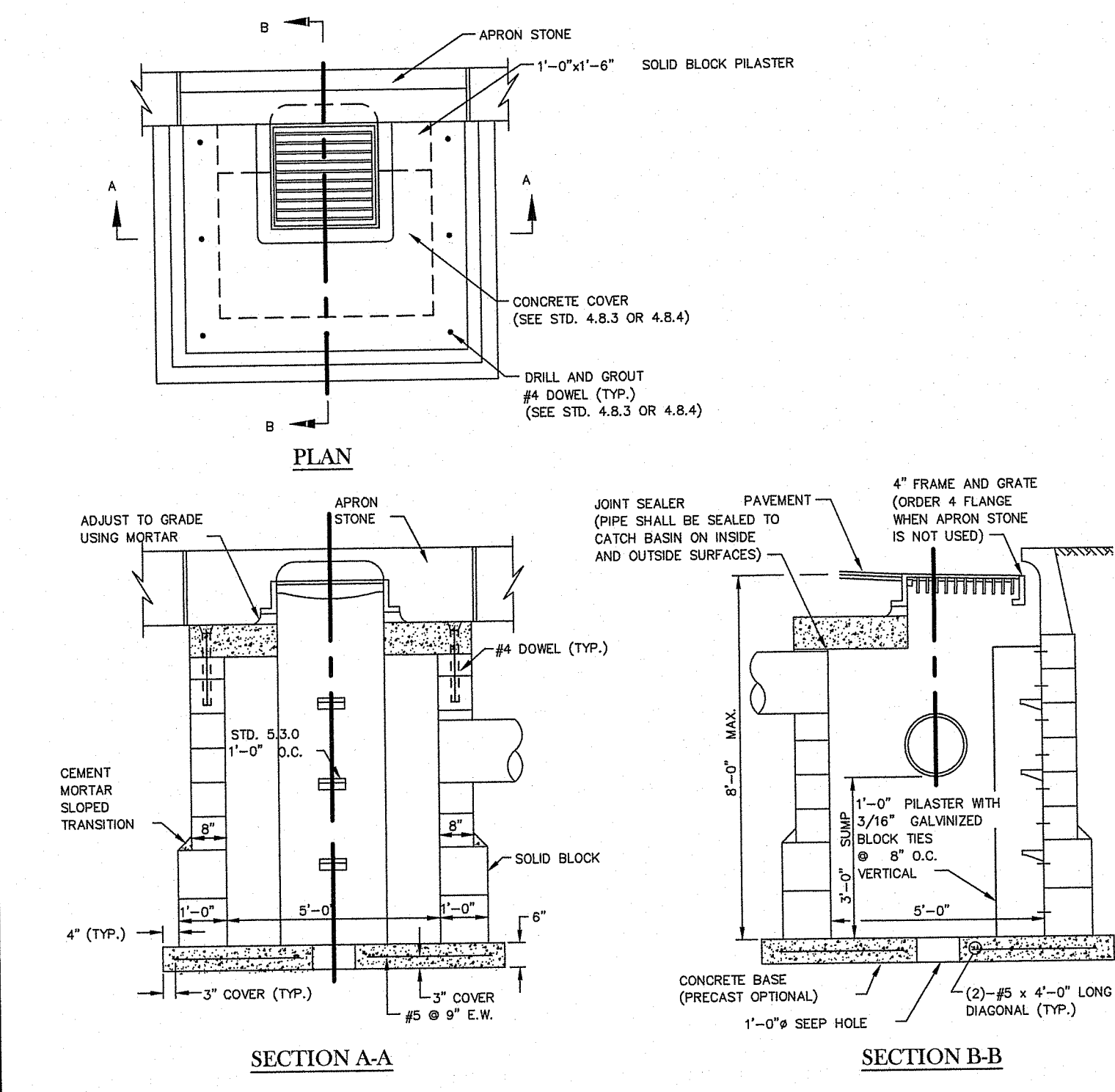
NOTE: 4' UNLESS NOTED OTHERWISE

CATCH BASIN DIAMETER (D)	A	B	CIRCUMFERENTIAL STEEL REINFORCEMENT REQUIRED *
4'-0"	5'	6'	0.12 SQ. IN./LIN. FT.
5'-0"	6'	7'	0.15 SQ. IN./LIN. FT.
6'-0"	7'	8'	0.18 SQ. IN./LIN. FT.

\* FOR LONGITUDINAL (VERTICAL STANDING) REINFORCEMENT REFER TO ASTM C478, ITEM 8.1.2

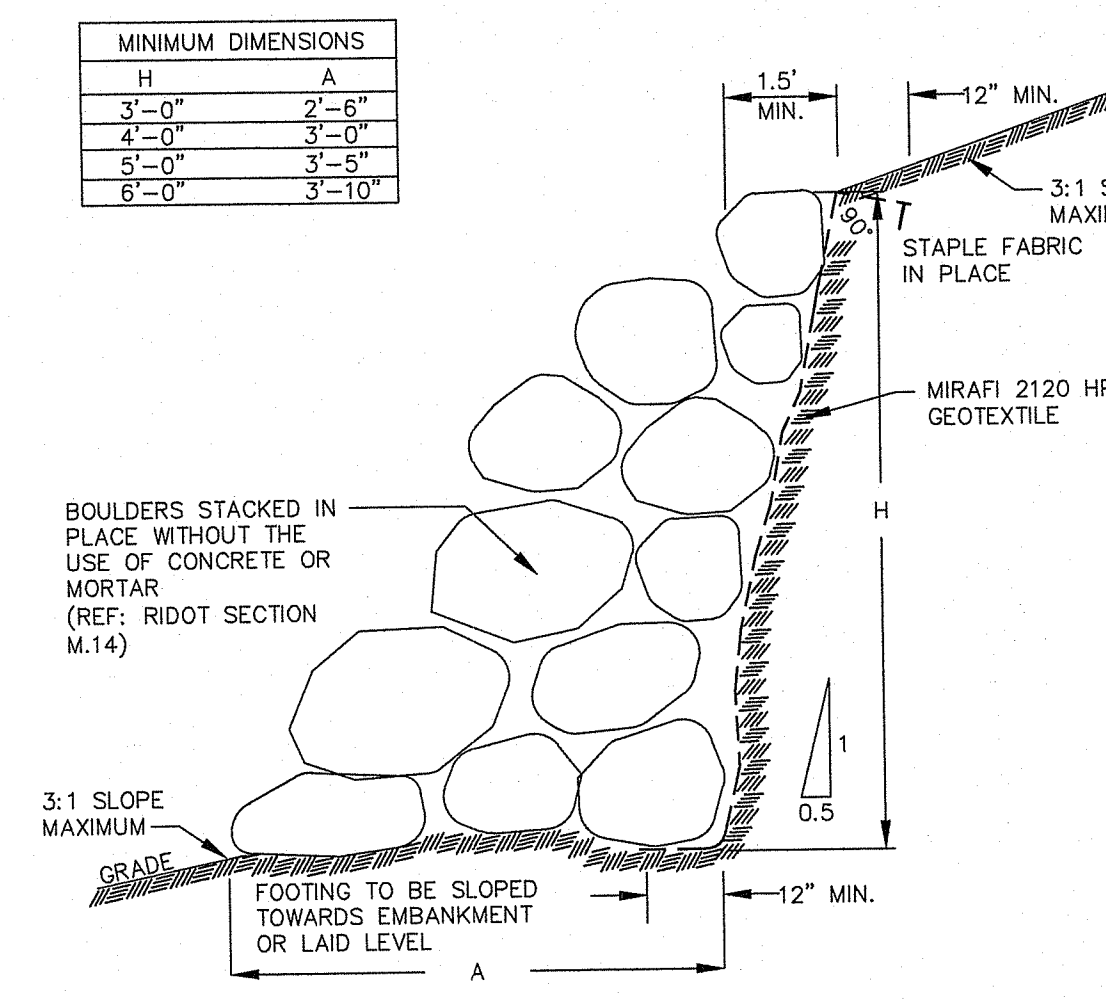
- NOTE: OPEN UNLESS NOTED OTHERWISE
- NOTES:
- SHALL BE IN ACCORDANCE WITH SECTION 702 OF THE R.I. STANDARD SPECIFICATIONS.
  - SEE TABLE 1 FOR STEEL REINFORCEMENT REQUIREMENTS.
  - STEEL REINFORCEMENT FOR BASE SECTION BOTTOM SHALL BE A MINIMUM OF 0.12 SQ. IN./LIN. FT. (BOTH WAYS).
  - STEPS SHALL CONFORM TO STD. 5.3.0 AND SHALL BE INSTALLED AT THE CASTING PLANT.
  - ONE POUR MORTLING BASE SECTION.
  - ANY NECESSARY ADJUSTMENTS DURING CONSTRUCTION WILL BE DONE BY SAW-CUTTING AND/OR CORING ONLY. NO JACKHAMMERS, HAMMERS AND CHISELS OR PNEUMATIC TOOLS WILL BE ALLOWED.
  - STEPS SHALL CONFORM TO STD. 5.3.0 AND SHALL BE INSTALLED AT THE CASTING PLANT.
  - FOR CATCH BASIN TYPES 'D' AND 'F' STEPS MUST BE INSTALLED ON THE CURB SIDE OF THE STRUCTURE.
  - CORBEL MADE OF RED CLAY BRICK WILL BE PERMITTED FOR THE "CONE SECTION" OF THE 4'-0" CATCH BASIN ONLY.
  - THE CENTERLINE OF THE OPENING MUST BE WITHIN 2'-0" FROM THE STEPS.
  - ALTERNATE TOP SLAB IS STEEL REINFORCED TO MEET OR EXCEED H-25 LOADING (SEE STD. 4.7.2).
  - ALTERNATE TOP SLAB IS ONLY FOR USE WHEN REDUCING SECTION DOES NOT FIT BECAUSE OF STRUCTURE DEPTH.
  - REFER TO STD. 5.2.0 FOR MAXIMUM PIPE SIZES.

**PRECAST 4'-0", 5'-0", OR 6'-0" ROUND CATCH BASIN**  
NOT TO SCALE  
R.I. STANDARD 4.4.0



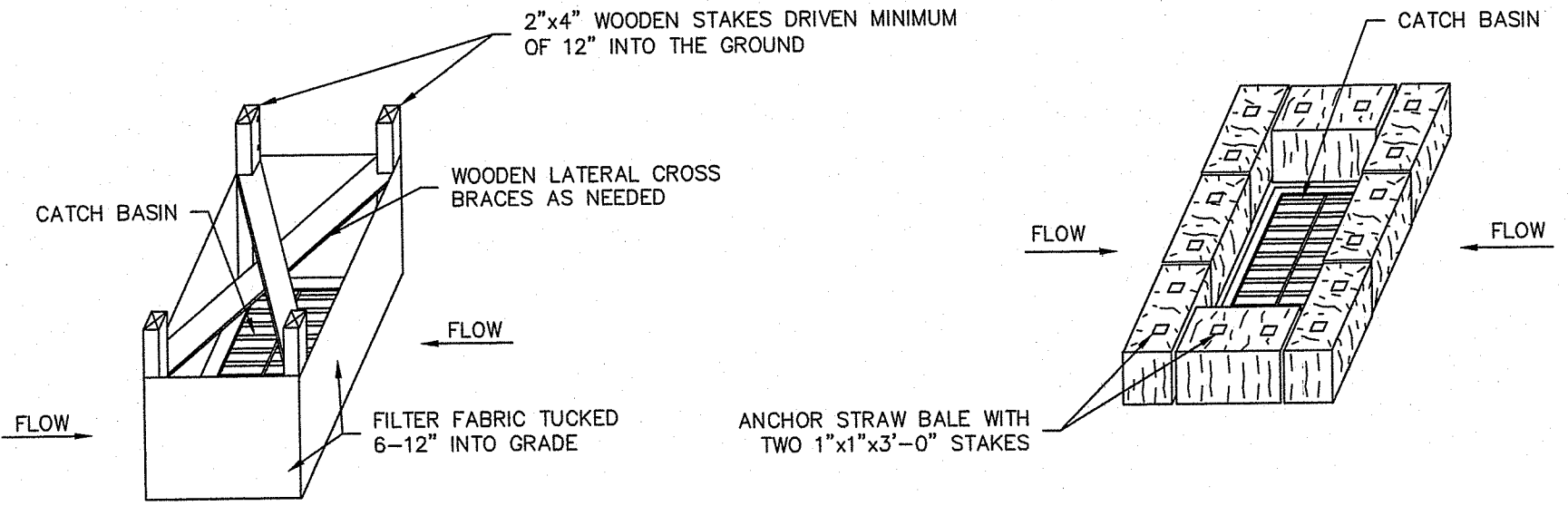
- NOTES:
- SHALL BE IN ACCORDANCE WITH SECTION 702 OF THE R.I. STANDARD SPECIFICATIONS.
  - 1 1/2" CEMENT MORTAR PLASTER COAT REQUIRED ON ALL INSIDE AND OUTSIDE SURFACES.
  - ADJUST DOWEL LOCATION BASED ON PIPE CONFIGURATION, AS REQUIRED.
  - USE 6" WALLS UP TO 6'-0" DEPTH, USE 1'-0" WALLS UP TO 6'-0" DEPTH.

**SOLID BLOCK SHALLOW 5'-0" OR 6'-0" SQUARE CATCH BASIN**  
(PIPE COVER 1'-6" TO 3'-0")  
NOT TO SCALE  
R.I. STANDARD 3.5.1



- NOTE: THE PROPOSED BOULDER WALLS GREATER THAN SIX FEET IN HEIGHT MUST BE DESIGNED BY A PROFESSIONAL ENGINEER IN THE STATE OF RHODE ISLAND, INSTALLATION SUPERVISED, AND INSTALLATION CERTIFIED BY A PROFESSIONAL ENGINEER LICENSED IN RHODE ISLAND. SHOP DRAWINGS TO BE SUBMITTED BY A PROFESSIONAL ENGINEER LICENSED IN RHODE ISLAND PRIOR TO CONSTRUCTION ON ALL WALLS OVER 6'.

**BOULDER RETAINING WALL DETAIL**  
NOT TO SCALE



**SILT FENCE INSTALLATION FOR CATCH BASINS AT LOW POINTS**  
**STRAW BALE FILTER 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

DEPARTMENT OF ENVIRONMENTAL MANAGEMENT  
OFFICE OF WATER RESOURCES  
FRESHWATER WETLANDS PROGRAM  
APPROVED WITH CONDITIONS  
AS SPECIFIED IN THE LETTER OF APPROVAL  
DATED **NOV - 2 2021** FILE # **21-0032**  
NO CHANGES ALLOWED WITHOUT PRIOR APPROVAL  
*Nancy L. Freeman*

1. FOUNDATION: WHERE THE TRENCH BOTTOM IS UNSTABLE, THE CONTRACTOR SHALL EXCAVATE TO A DEPTH REQUIRED BY THE ENGINEER AND REPLACE WITH A FOUNDATION OF CLASS I OR II MATERIAL AS DEFINED IN ASTM D2321. "STANDARD PRACTICE FOR INSTALLATION OF THERMOPLASTIC PIPE FOR SEWERS AND OTHER GRAVITY-FLOW APPLICATIONS," LATEST EDITION; AS AN ALTERNATIVE AND AT THE DISCRETION OF THE ENGINEER, THE TRENCH BOTTOM MAY BE STABILIZED USING A WOVEN GEOTEXTILE FABRIC.

2. BEDDING: SUITABLE MATERIAL SHALL BE CLASS I, II OR III AND INSTALLED AS REQUIRED IN ASTM D2321, LATEST EDITION, UNLESS OTHERWISE SPECIFIED BY THE ENGINEER.

2.1. MINIMUM BEDDING THICKNESS SHALL BE 4" (100mm) FOR 4"-24" (100-600mm) CPEP; 6" (150mm) FOR 30"-60" (750-1500mm) CPEP.

3. HAUNCHING AND INITIAL BACKFILL: SUITABLE MATERIAL SHALL BE CLASS I, II OR III AND INSTALLED AS REQUIRED IN ASTM D2321, LATEST EDITION.

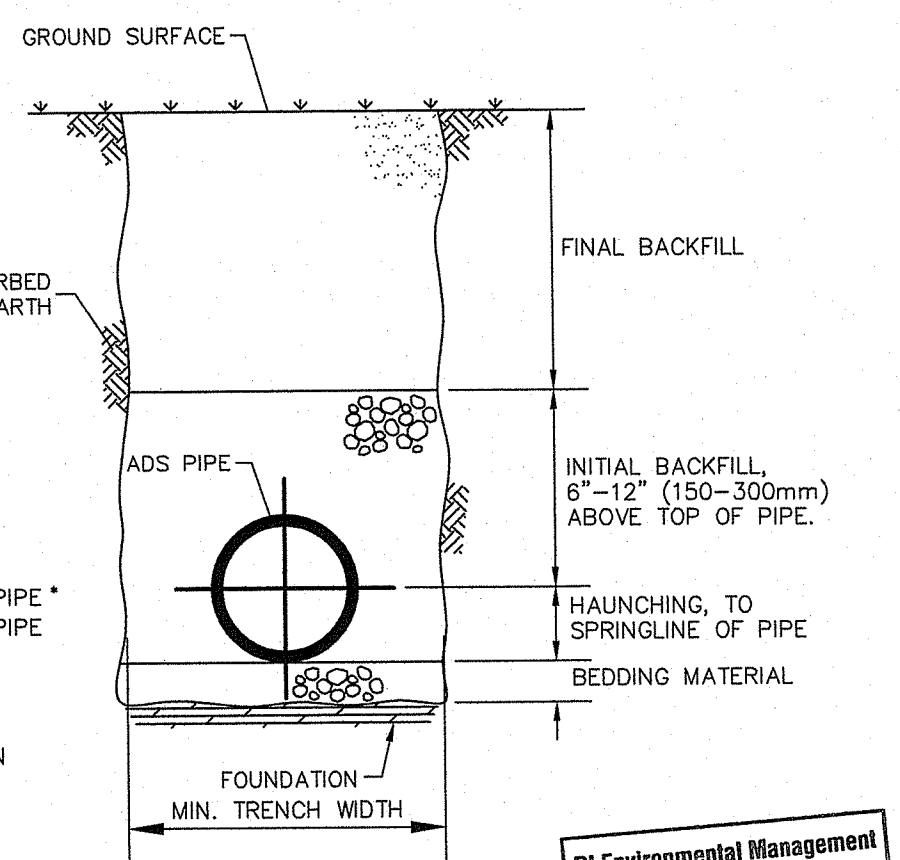
4. UNLESS OTHERWISE SPECIFIED BY THE ENGINEER, MINIMUM TRENCH WIDTHS SHALL BE AS FOLLOWS:

NOMINAL S.D. (mm)	MIN. RECOMMENDED TRENCH WIDTH (in)	MIN. RECOMMENDED COVER (in)
4 (100)	21 (530)	4 (100)
6 (150)	23 (580)	5 (125)
8 (200)	25 (630)	6 (150)
10 (250)	28 (710)	8 (200)
12 (300)	31 (790)	10 (250)
15 (375)	34 (860)	12 (300)
18 (450)	39 (990)	15 (375)
24 (600)	48 (1220)	18 (450)
30 (750)	56 (1400)	24 (600)
36 (900)	78 (1980)	30 (750)
42 (1050)	83 (2110)	36 (900)
48 (1200)	89 (2260)	42 (1050)
60 (1500)	102 (2590)	48 (1200)

5. MINIMUM COVER: MINIMUM RECOMMENDED DEPTHS OF COVER FOR VARIOUS LIVE LOADING CONDITIONS ARE SUMMARIZED IN THE FOLLOWING TABLE. UNLESS OTHERWISE NOTED, ALL DIMENSIONS ARE TAKEN FROM THE TOP OF PIPE TO THE GROUND SURFACE.

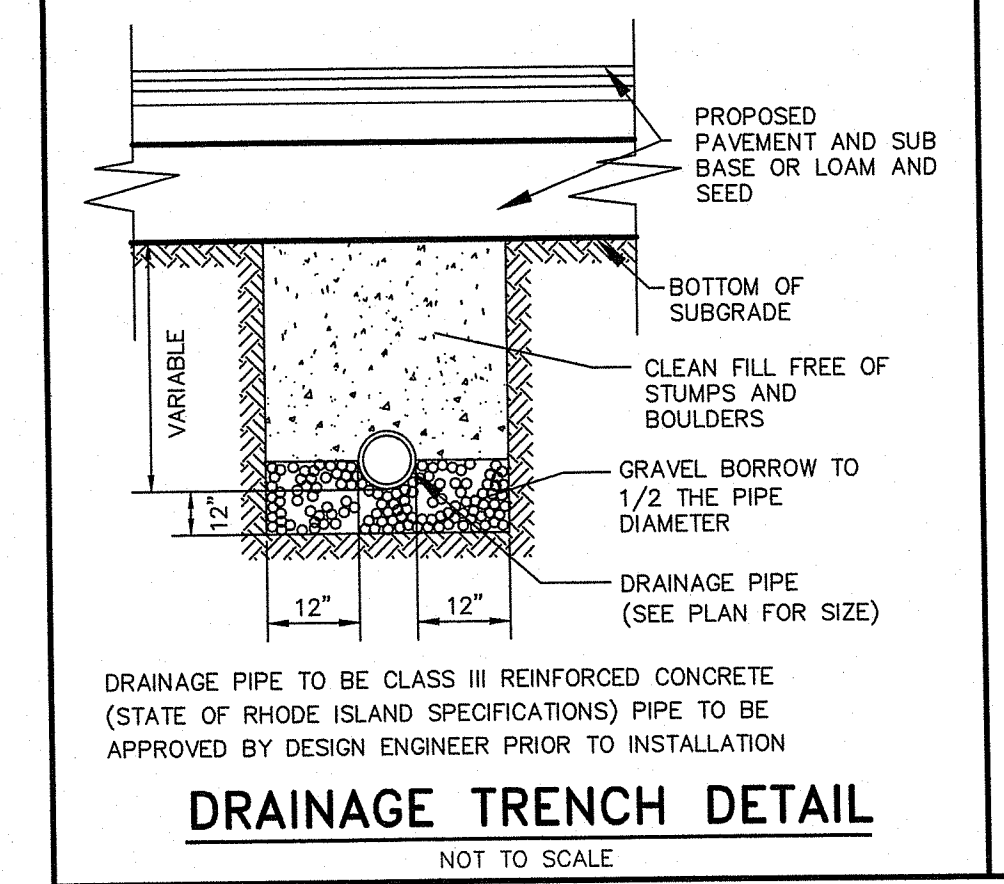
SURFACE LIVE LOADING CONDITION	MINIMUM RECOMMENDED COVER (in)
H25 (FLEXIBLE PAVEMENT)	12 (300), 24 (600) FOR 60" (1500) PIPE
H25 (RIGID PAVEMENT)	12 (300), 24 (600) FOR 60" (1500) PIPE
E80 RAILWAY	24 (600)
HEAVY CONSTRUCTION	48 (1200)

\* TOP OF PIPE TO BOTTOM OF BITUMINOUS PAVEMENT SECTION

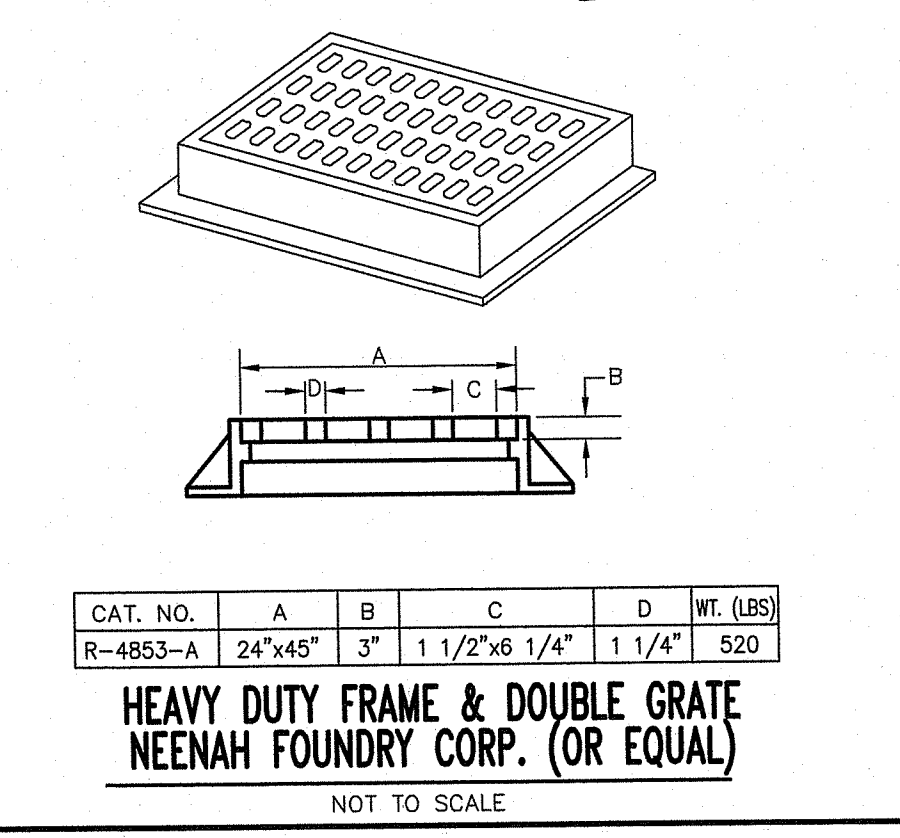


**TYPICAL TRENCH CROSS-SECTION**

R.I. Environmental Management  
OCT - 1 2021  
Office of Water Resources



**DRAINAGE TRENCH DETAIL**  
NOT TO SCALE



**RIDEM Submission - Phases 2 & 3**

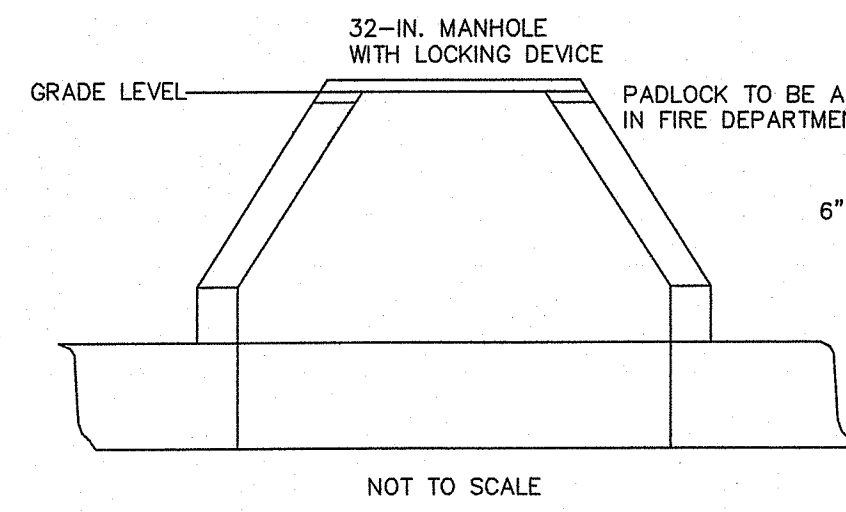
CHRISTOPHER A. DUHAMEL  
REGISTERED PROFESSIONAL ENGINEER  
CIVIL

DETAIL SHEET - 1  
**Scituate Highlands**  
ASSESSOR'S PLAT 50 LOT 5  
SCITUATE, RHODE ISLAND

PREPARED BY  
**DiPrete Engineering Associates, Inc.**  
ENGINEERING, SURVEYING AND PLANNING CONSULTANTS  
TWO STAFFORD COURT  
CRANSTON, R.I. 02920  
(401) 943-1000 FAX: (401) 464-6006  
PREPARED FOR: APPLICANT AND OWNER  
**Scituate Highlands, LLC**  
c/o KALPESH SHAH  
KINGSTOWN ROAD  
WEST KINGSTOWN, RI 02892  
(401) 286-2035

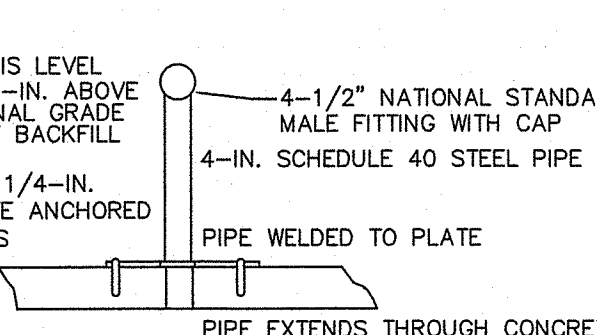
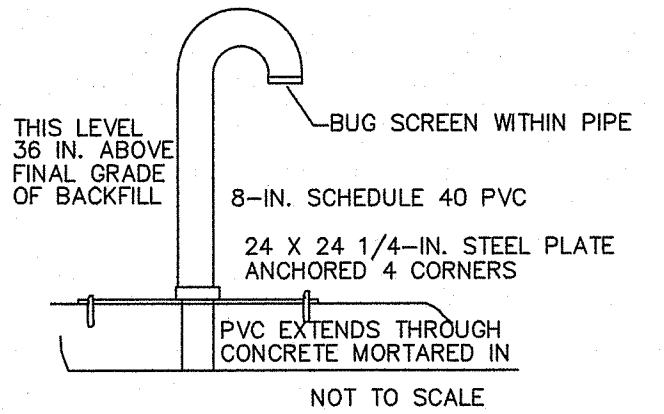
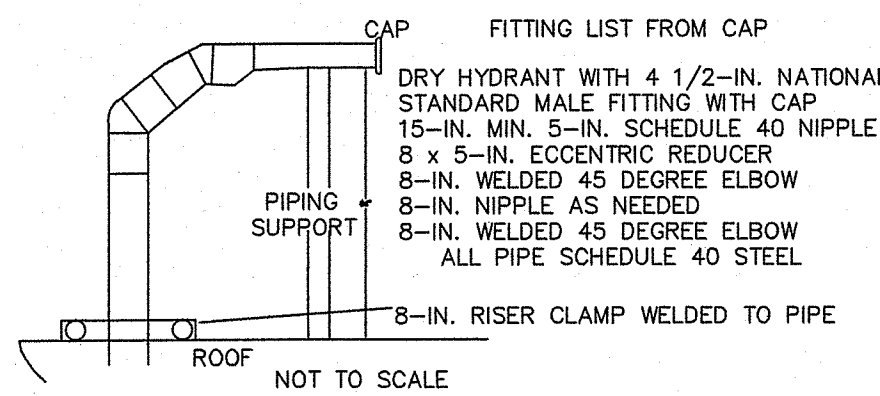
NO.	DATE	DESCRIPTION	BY
3	02-25-2021	RIDEM RESPONSE TO COMMENTS	SR
2	02-25-2021	RIDEM RESPONSE TO COMMENTS	NMP
1	02-25-2021	RIDEM RESPONSE TO COMMENTS	NMP
0	02-06-2021	PRELIMINARY DETERMINATION SUBMISSION	KMP

- SPECIFICATION AND INSTALLATION OF EACH CISTERN AND DRY HYDRANT SHALL BE IN COMPLIANCE WITH NFPA 1142 STANDARD ON WATER SUPPLIES FOR SUBURBAN AND RURAL FIRE FIGHTING (1999 EDITION).
- MAINTENANCE OF THE CISTERNS AND DRY HYDRANTS SHALL BE THE RESPONSIBILITY OF THE SUBDIVISION ASSOCIATION.
- THE DESIGN OF A CISTERN SHOULD BE TROUBLE-FREE AND LAST A LIFETIME.
- THE CISTERN CAPACITY SHOULD BE 10,000 GALLONS (37,850 L) MINIMUM, AVAILABLE THROUGH THE SUCTION PIPING SYSTEM.
- THE SUCTION PIPING SYSTEM SHOULD BE CAPABLE OF DELIVERING 1000 GPM (3800 L/MIN) FOR THREE QUARTERS OF THE CISTERN CAPACITY.
- THE DESIGN OF THE CISTERN SHOULD BE SUBMITTED TO THE AUTHORITY HAVING JURISDICTION FOR APPROVAL PRIOR TO CONSTRUCTION. ALL PLANS SHOULD BE SIGNED BY AN ACCEPTABLE REGISTERED PROFESSIONAL ENGINEER.
- THE ENTIRE CISTERN SHOULD BE RATED FOR HIGHWAY LOADING, UNLESS SPECIFICALLY EXEMPTED BY THE AUTHORITY HAVING JURISDICTION.
- ALL DRAWINGS ARE FOR ESTIMATING PURPOSES ONLY AND ARE NOT INTENDED FOR USE AS DESIGN.
- EACH CISTERN SHOULD BE SITED TO THE PARTICULAR LOCATION BY A REGISTERED ENGINEER AND APPROVED BY THE AUTHORITY HAVING JURISDICTION.
- PRECAST CONCRETE SHOULD ACHIEVE A 28-DAY STRENGTH OF 5000 PSIG (34,500 KPA).
- THE CONCRETE SHOULD BE PORTLAND CEMENT TYPE II PER ASTM C150-81. STEEL REINFORCEMENT PER ASTM A-615 GRADE 60. DESIGN LOADING TO CONFORM TO AASHTO HS-20. TANK JOINTS TO BE SEALED WITH BUTYL RUBBER JOINT SEAL AND EXTERIOR OF TANK COATED WITH BITUMINOUS WATERPROOFING.
- ALL SUCTION AND FILL PIPING SHOULD BE AMERICAN SOCIETY OF TESTING AND MATERIALS (ASTM) SCHEDULE 40 STEEL. ALL VENT PIPING SHOULD BE ASTM SCHEDULE 40 PVC WITH GLUED JOINTS.
- ALL PVC PIPING SHOULD HAVE GLUED JOINTS.
- THE 8 IN. x 5 IN. (20.3 CM x 12.7 CM) ECCENTRIC REDUCER IS AVAILABLE FROM SUPPLIERS.
- THE FINAL SUCTION CONNECTION SHOULD BE A MINIMUM OF 4 1/2 IN. (11.4 CM) NATIONAL STANDARD MALE FITTING W/CAP.
- THE FILLER PIPE SHOULD HAVE ONE (1) 4-1/2" NATIONAL STANDARD MALE FITTING.
- THE ENTIRE CISTERN SHOULD BE COMPLETED AND INSPECTED BEFORE ANY BACKFILLING IS DONE.
- ALL BACKFILL MATERIAL SHOULD BE SCREENED GRAVEL WITH NO STONES LARGER THAN 1 1/2 IN. (38 MM) AND SHOULD BE COMPACTED TO 95 PERCENT PER ASTM 1557.
- BEDDING FOR THE CISTERN SHOULD CONSIST OF A MINIMUM OF 12 IN. OF 3/4-IN. TO 1 1/2-IN. CRUSHED, WASHED STONE, COMPACTED. NO FILL SHOULD BE USED UNDER STONE.
- FILLER PIPE WITH 4" STORZ COUPLING AND LOCKING CAP SHOULD BE 36 IN. (91.4 CM) ABOVE FINAL BACKFILL TO GRADE.
- SUCTION PIPE CONNECTION SHOULD BE 20 IN. TO 24 IN. (51 CM TO 61 CM) ABOVE THE LEVEL OF THE GRAVEL WHERE VEHICLE WHEELS WILL BE LOCATED WHEN CISTERN IS IN USE.
- SUCTION PIPE SHOULD BE SUPPORTED EITHER TO TOP OF TANK OR TO A LEVEL BELOW FROST.
- BASE SHOULD BE DESIGNED SO THAT CISTERN WILL NOT FLOAT WHEN EMPTY.
- PERIMETER OF TANK AT FLOOR/WALL JOINT SHOULD BE SEALED WITH 8-IN. (20.3-CM) PVC WATERSTOP.
- AFTER BACKFILLING, TANK SHOULD BE PROTECTED BY FENCING OR LARGE STONES, AS DEEMED NECESSARY BY LOCAL FIRE DISTRICT.
- BACKFILL OVER THE TANK SHOULD BE: (A) 24" MINIMUM CLEAN FILL OVER 2" STYROFOAM INSULATION ON TOP OF CISTERN. (B) ALL BACKFILL SHOULD EXTEND 10 FT (3.1 M) BEYOND THE EDGE OF THE CISTERN, AND THEN HAVE A MAXIMUM 3:1 SLOPE, LOAMED AND SEEDED.
- BOTTOM OF SUCTION PIPE TO PUMPER CONNECTION SHOULD NOT EXCEED 14 FT (4.25 M) VERTICAL DISTANCE.
- PITCH OF SHOULDER AND VEHICLE PAD FROM EDGE OF PAVEMENT TO PUMPER SUCTION CONNECTION SHOULD BE 1 TO 6 PERCENT DOWNGRADE.
- SHOULDER AND VEHICLE PAD SHOULD BE OF SUFFICIENT LENGTH TO PERMIT CONVENIENT ACCESS TO SUCTION CONNECTION WHEN PUMPER IS SET AT 45 DEGREES TO ROAD.
- ALL CONSTRUCTION, BACKFILL, AND GRADING MATERIAL SHOULD BE IN ACCORDANCE WITH PROPER CONSTRUCTION PRACTICES AND ACCEPTABLE TO THE AUTHORITY HAVING JURISDICTION.
- ALL HORIZONTAL SUCTION PIPING SHOULD SLOPE SLIGHTLY UPHILL TOWARD PUMPER CONNECTION.
- AS A CONDITION OF FINAL APPROVAL NO CERTIFICATE OF OCCUPANCY WILL BE ISSUED UNTIL THE FIRE SUPPRESSION CISTERN IS CONSTRUCTED AND FUNCTIONAL.



CISTERN TANK CONSTRUCTION PLAN VIEW N.T.S.

CISTERN TANK CONSTRUCTION CROSS SECTION VIEW N.T.S.

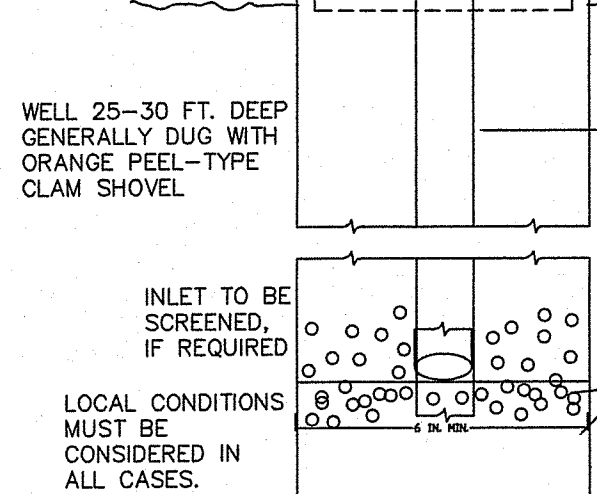
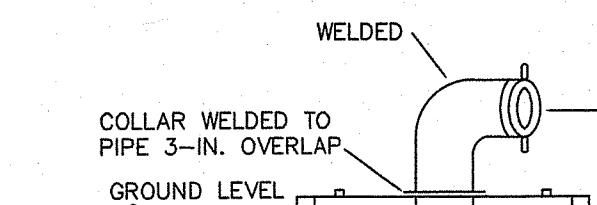
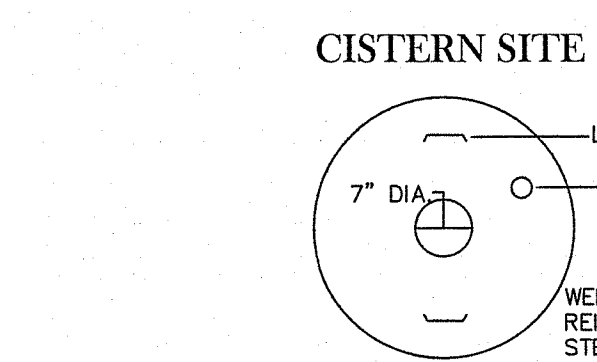
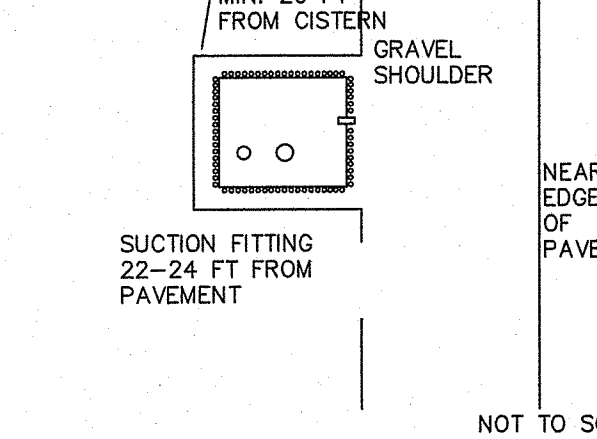


UPPER SECTION PIPE DETAIL

VENT PIPE DETAIL

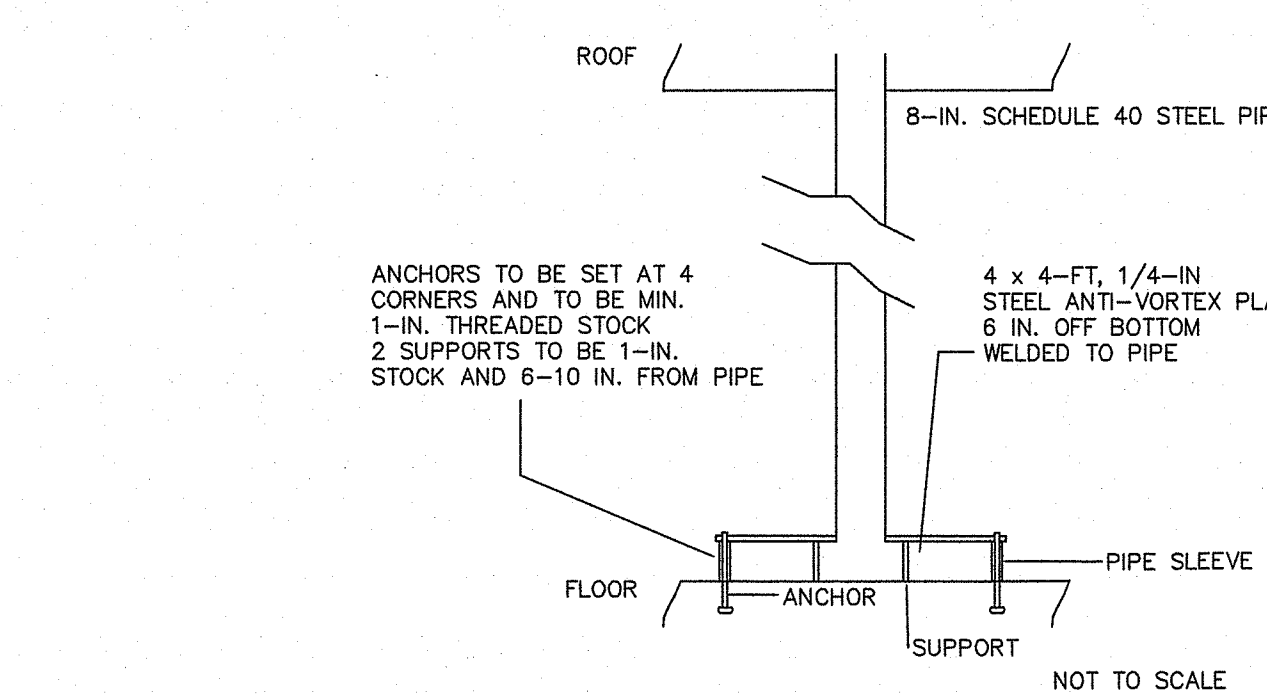
FILL PIPE DETAIL

CISTERN SITE

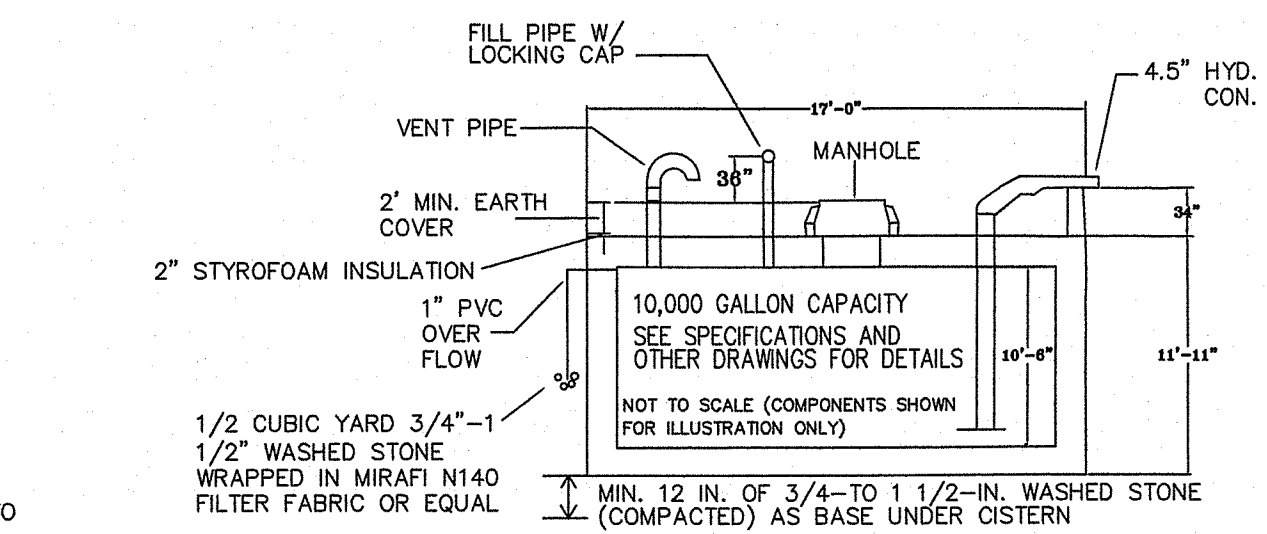


TYPICAL CISTERN WITH DRY HYDRANT INSTALLED

FIRE PROTECTION CISTERNS



LOWER SECTION PIPE DETAIL



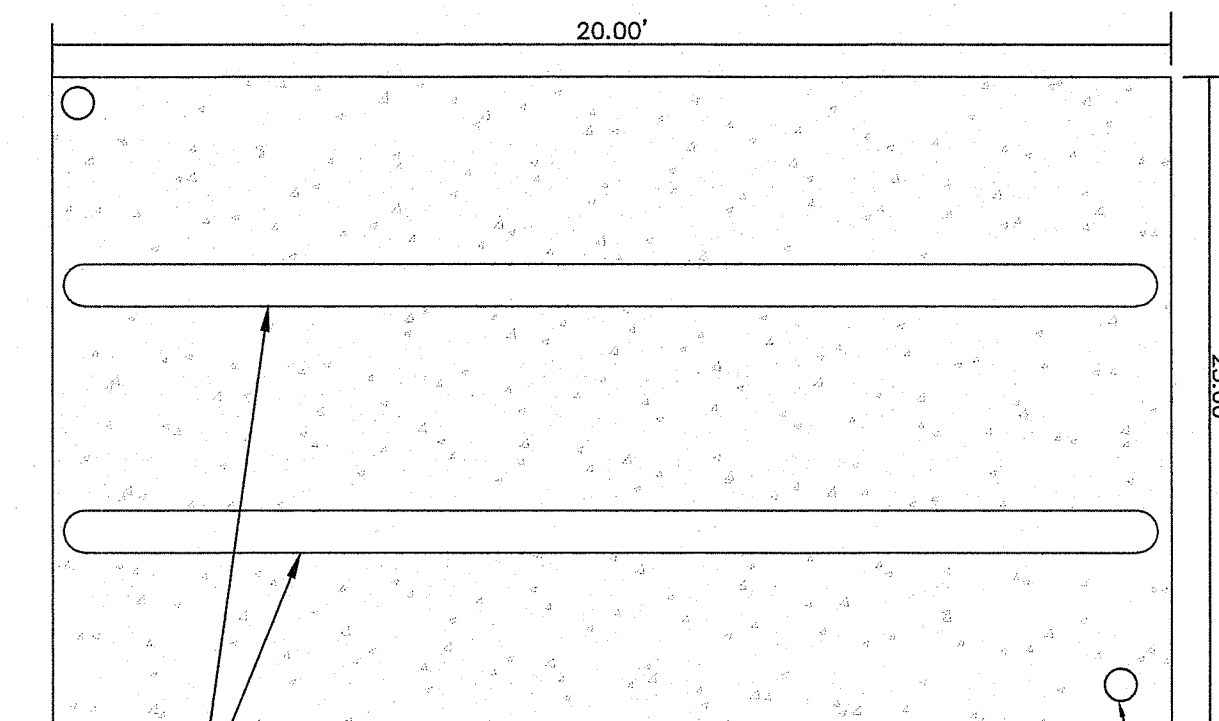
CISTERN AND PIPING

GENERAL NOTES:

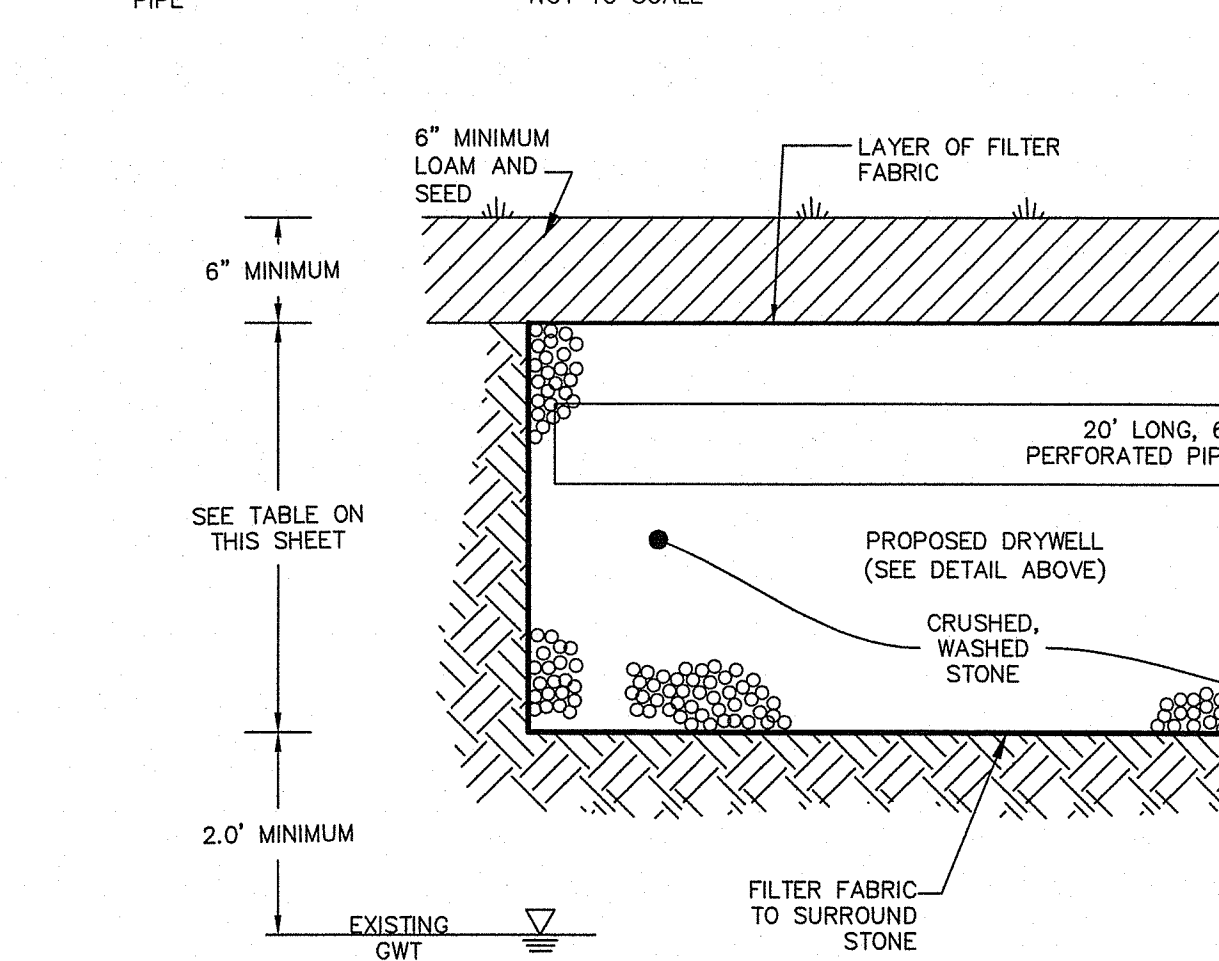
- EACH CISTERN SHALL BE EQUIPPED WITH A DRY HYDRANT FITTED WITH A 4-1/2 INCH NATIONAL STANDARD MALE FITTING, WITH CAP. SPECIFICATION AND INSTALLATION OF EACH CISTERN AND DRY HYDRANT SHALL BE IN COMPLIANCE WITH NFPA 1142 STANDARD ON WATER SUPPLIES FOR SUBURBAN AND RURAL FIRE FIGHTING (1999 EDITION).
- MAINTENANCE OF THE CISTERNS AND DRY HYDRANTS SHALL BE THE RESPONSIBILITY OF THE HOME-OWNERS ASSOCIATION.

CONSTRUCTION, MAINTENANCE, & INSPECTION NOTES:

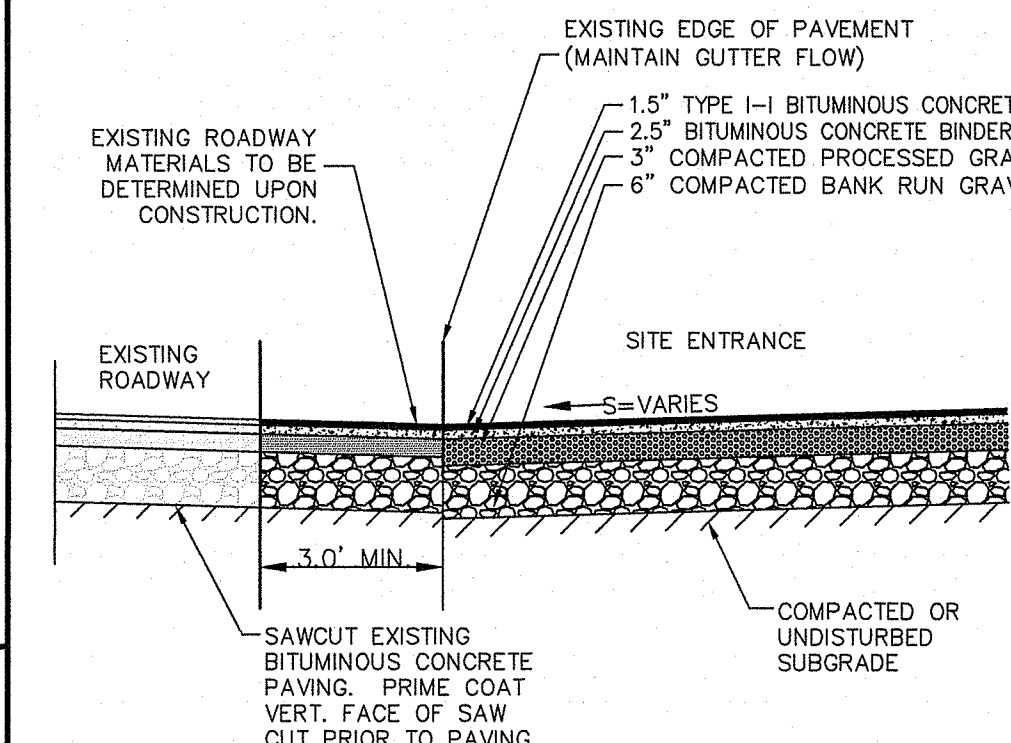
- ROOF LEADERS ARE TO TIE INTO PROPOSED DRYWELLS.
- DRYWELL AREA TO BE STAKED, MARKED, AND REMAIN UNDISTURBED PRIOR TO CONSTRUCTION. THERE IS TO BE NO CONSTRUCTION TRAFFIC ON DESIGNATED AREA PRIOR TO CONSTRUCTION.
- PLACE FILTER FABRIC ALONG THE BOTTOM AND SIDES OF TRENCH AND FILL WITH CRUSHED, WASHED STONE.
- OVERLAP FILTER FABRIC ON THE TOP OF THE FILTER STONE. BACK FILL WITH CLEAN FILL TO FINISH GRADE.
- (\*) MONITORING WATER LEVELS WITHIN THE INSPECTION PORT AT VARIOUS TIME INTERVALS AFTER A RAINFALL EVENT WILL INDICATE THE EFFECTIVENESS OF THE SYSTEM. IF WATER IS STANDING IN DRYWELL SYSTEM 72 HOURS AFTER A STORM EVENT SYSTEM FAILURE HAS OCCURRED AND WILL REQUIRE FLUSHING MAINTENANCE, REPAIR OR REPLACEMENT OF THE SYSTEM. THE OWNER WILL MAINTAIN THE DRAINAGE COMPONENTS.



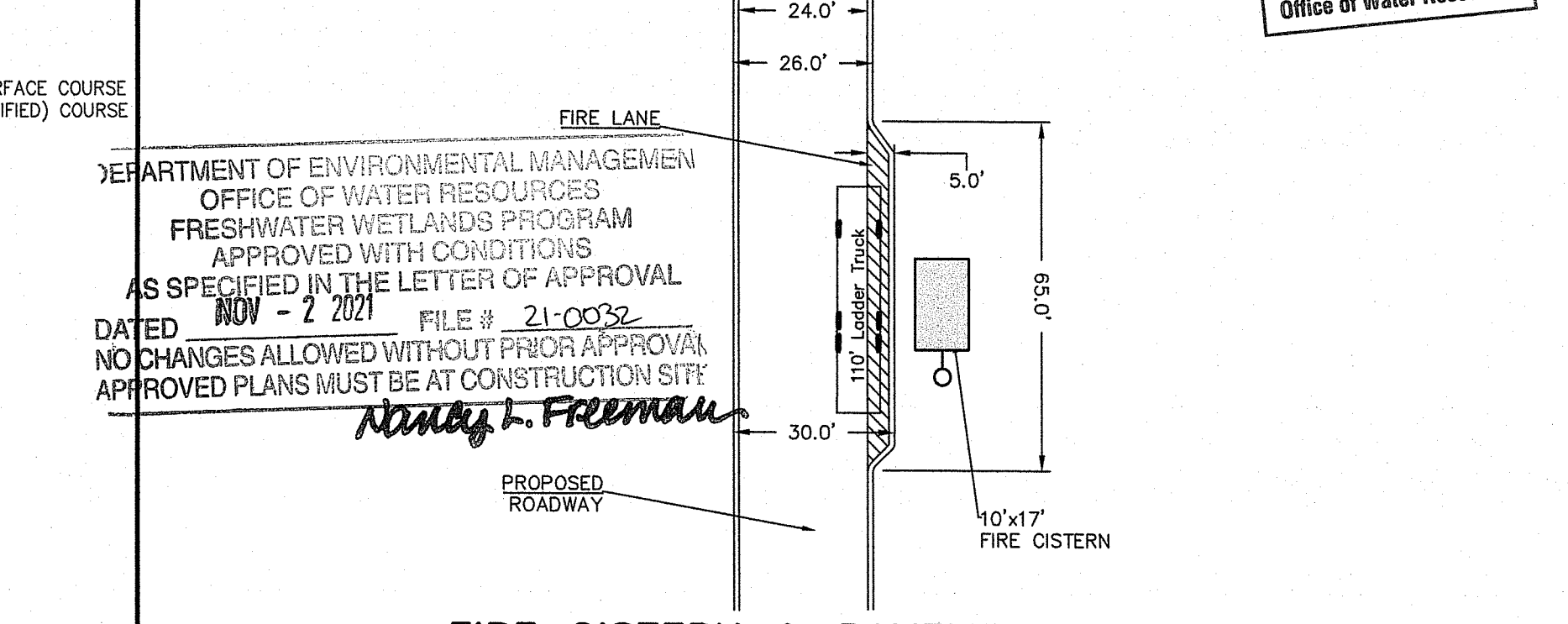
HOUSE DRYWELL DETAIL (PLAN)



House Drywell Connection Detail



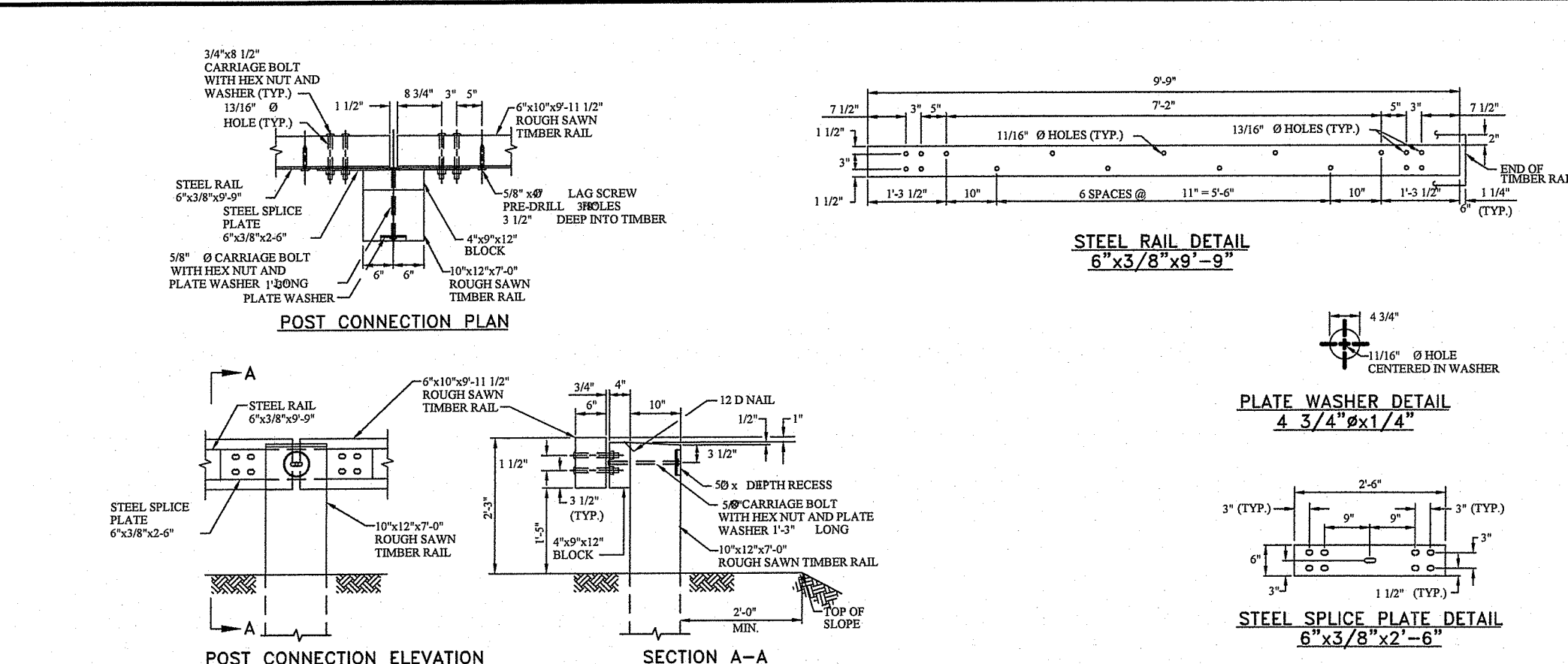
SAWCUT & MATCH PAVEMENT DETAIL



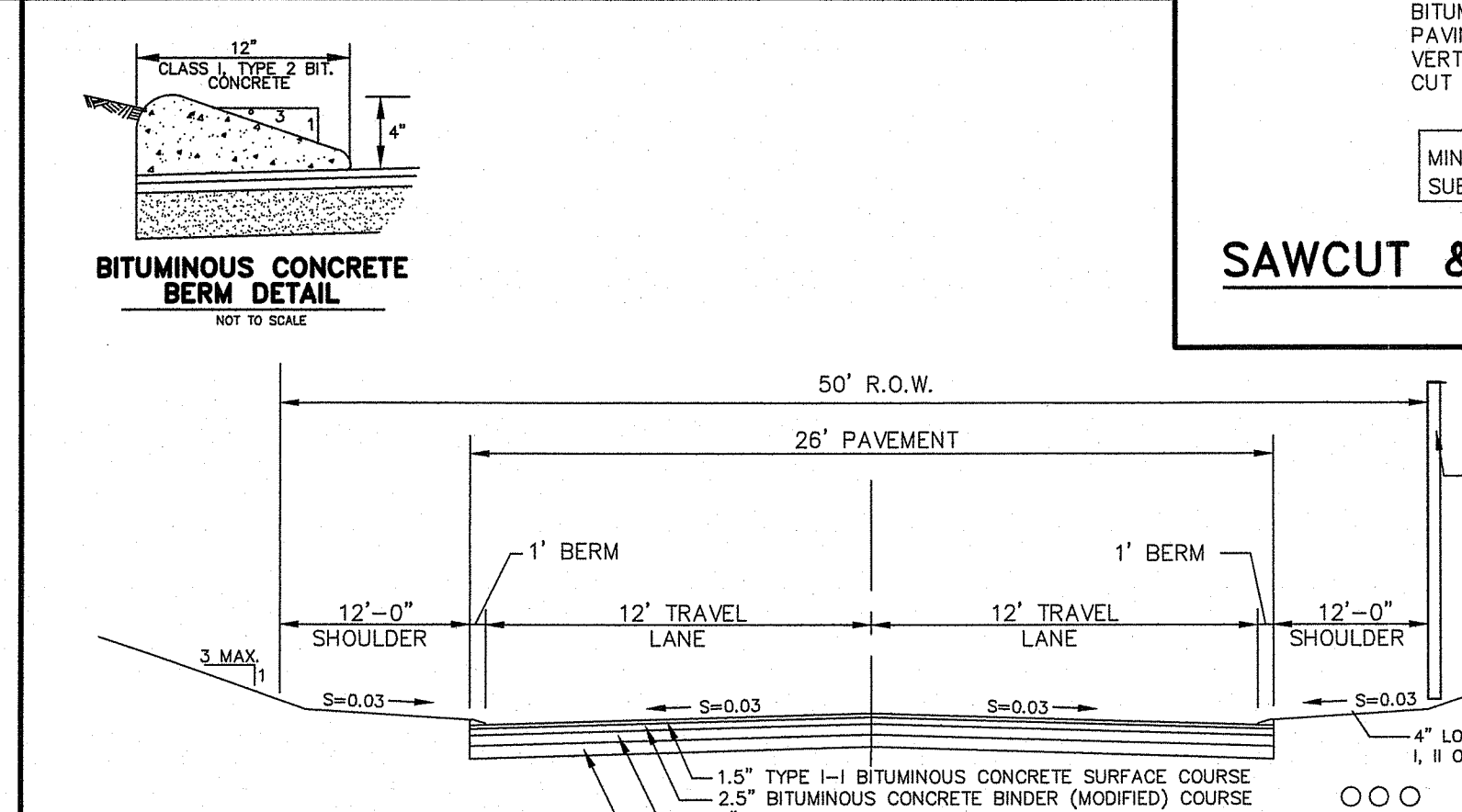
FIRE CISTERN & PAVEMENT DETAIL

THIS REGULATORY SUBMISSION SET SHALL NOT BE USED FOR CONSTRUCTION PURPOSES UNLESS STAMPED ISSUED FOR CONSTRUCTION AND SIGNED BY A DIPRETE ENGINEERING REPRESENTATIVE.

RIDEM Submission - Phases 2 & 3



STEEL BACKED-TIMBER GUARDRAIL DETAIL



TYPICAL ROAD CONSTRUCTION CROSS SECTION

LOT	PROPOSED GRADING ELEVATION	EXISTING GRADING ELEVATION	TOP OF DRYWELL	ELEVATION AT BOTTOM STONE OF DRYWELL	SEASONAL HIGH GWT ELEVATION	SEPARATION DISTANCE (FEET)
11	517.00	517.00	516.50	513.50	508	5.50
12	511.00	511.00	510.50	507.50	502	5.50
13	504.00	504.00	503.50	500.50	495	5.50
14	494.00	494.00	493.50	490.50	485	5.50
15	478.00	478.00	477.50	474.50	467	7.50
16	468.00	468.00	467.50	464.50	458	2.50
18	470.00	466.00	469.50	466.50	462	4.50
19	480.00	480.00	479.50	476.50	473	2.50
23	520.00	520.00	519.50	516.50	510	6.50
24	516.00	516.00	515.50	512.50	506	6.50
28	508.00	508.00	507.50	504.50	500	4.50
29	508.00	508.00	507.50	504.50	500	4.50
31	486.00	486.00	485.50	482.50	479.50	3.00
32	476.00	476.00	475.50	472.50	470	2.50

CHRISTOPHER A. DUHAMEL  
REGISTERED PROFESSIONAL ENGINEER  
CIVIL

DETAIL SHEET - 2  
**Scituate Highlands**  
ASSESSOR'S PLAT 50 LOT 5  
SCITUATE, RHODE ISLAND  
PREPARED BY  
**DiPrete Engineering Associates, Inc.**  
ENGINEERING, SURVEYING AND PLANNING CONSULTANTS  
TWO STAFFORD COURT  
CRANSTON, R.I. 02920  
(401) 943-1000 FAX: (401) 464-6006  
PREPARED FOR: APPLICANT AND OWNER  
**Scituate Highlands, LLC**  
c/o KALFESH SHAH  
KINGSTOWN ROAD  
WEST KINGSTOWN, RI 02892  
(401) 286-2035  
FEBRUARY, 2021  
DWN. BY: N.M.P.  
SHEET 29 OF 29