

EXISTING AERIAL SITE AND HYDROGEOLOGIC MAP



HYDROGEOLOGIC SETTING:

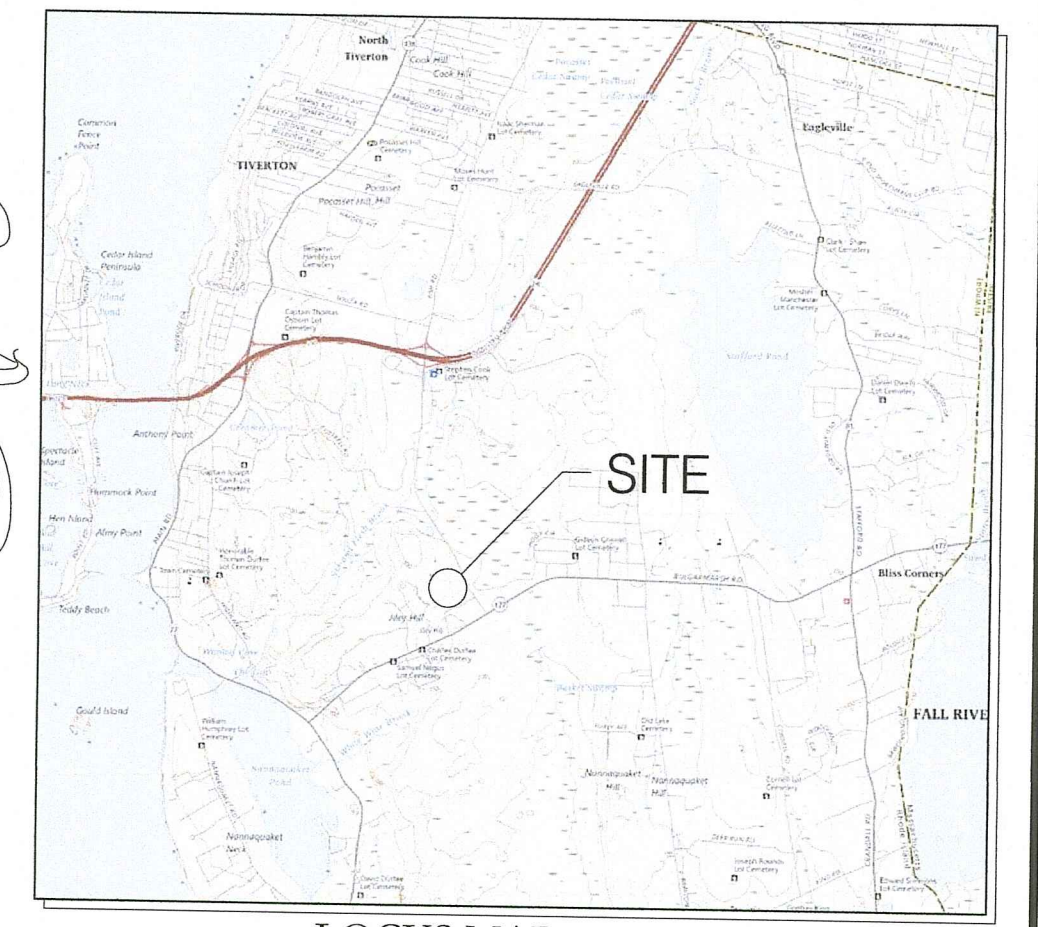
THE HYDROGEOLOGIC SETTING WAS CONDUCTED USING GEOLOGIC, HYDROGEOLOGIC, AND ENVIRONMENTAL DATA AND INFORMATION FROM A VARIETY OF TECHNICAL, AND GEOSPATIAL RESOURCES INCLUDING, BUT NOT LIMITED TO, THE RHODE ISLAND DEPARTMENT OF ENVIRONMENTAL MANAGEMENT (RIDEM), RHODE ISLAND GIS (RIGIS), THE UNITED STATES GEOLOGIC SURVEY (USGS), THE NATIONAL RESOURCE CONSERVATION SURVEY (NRCS), AND OTHER ACADEMIC/PROFESSIONAL SOURCES. IN ADDITION, THE BEDROCK WAS REVIEWED IN THE FIELD VIA OBSERVATION OF QUARRY EXPOSURES. THE ROCK CAN BE DESCRIBED AS GRAY TO ORANGE, COARSE GRAINED, FOLIATED TO WEAKLY FOLIATED GRANITE - CONSISTENT WITH THE BULGAR MARSH GRANITE SERIES DISCUSSED IN THE LITERATURE. FISSURES, JOINTS, FOLIATION PLANES AND MISCELLANEOUS FRACTURES ARE FEW AND IRREGULARLY DISPERSED TYPICALLY IN THE TOP 2/3 OF THE ROCK FACE AND RESULT IN MINOR WEeping AND LOW YIELD GROUNDWATER FLOW. THE AMOUNT OF OVERBURDEN SOIL IS SHALLOW, AS SUCH, WITHIN THE QUARRY RECLAMATION AREA AND IMMEDIATE ENVIRONS, TOPOGRAPHY AND GROUNDWATER FLOW IS ANTICIPATED TO BE CONTROLLED BY THE UNDERLYING BEDROCK SURFACE. GROUNDWATER GENERALLY FLOWS NORTH-NORTHWEST FROM THE SURROUNDING UPLAND, THROUGH THE RECLAMATION AREA, AND TOWARDS THE SURFACE WATER SOURCES ALONG THE NORTHERN SIDE OF THE PROPERTY.

LEGEND

- PARCEL BOUNDARY LINE
- - - ABUTTER PARCEL BOUNDARY LINE
- - - 100.00 TOPOGRAPHIC CONTOUR - EX Minor
- - - 100.00 TOPOGRAPHIC CONTOUR - EX Major
- ▨ SITE FEATURE - EXISTING
- ▨ STRUCTURE - EXISTING
- ▨ WETLAND - type AQUATIC VEG
- ▨ EDGE OF PAVEMENT
- ▨ SETBACKS
- ▨ POND / CHANNEL
- ▨ CULVERT

GENERAL NOTES:

1. FOR THE PURPOSE OF THIS PROJECT
 - OWNER - MELLO FAMILY REVOCABLE TRUST
120 PARADISE AVENUE
MIDDLETOWN, RI 02842
 - ENGINEER - RMA GEO-ENVIRONMENTAL, AN ENVIRONMENTAL, LLC
10 MAIN STREET
WICKFORD, RI 02852
 - CONTACT - JOSHUA ROSENBERG, PE.
 - WETLANDS - MCCUE ENVIRONMENTAL, LLC
LAFAYETTE MILL COMPLEX - 650 TEN ROD ROAD
NORTH KINGSTOWN, RI 02852
 - CONTACT - JOE MCCUE, PWS
2. THE OWNER WILL BE SELF PERFORMING THE WORK AND WILL BE REFERENCED HEREINAFTER AS EITHER THE OWNER OR CONTRACTOR.
3. THE OWNER IS ELECTING TO CONSTRUCT THE QUARRY RECLAMATION AREA WITH RECLAMATION FILL COSTING OF VARIABLE COMPOSITION/GRADATION MATERIALS PLACED IN A PARTIALLY UNCONTROLLED MANNER. THE DESIGN REQUIREMENTS WILL PROVIDE A STABLE SLOPE; HOWEVER, THE RECLAIMED AREA WILL NOT BE SUITABLE FOR STRUCTURAL BEARING AND ASSOCIATED DEVELOPMENT.
4. THE OWNER SHALL OBTAIN AND PAY FOR ALL NECESSARY FEDERAL, STATE, MUNICIPAL APPROVALS, PERMITS, LICENSES, CERTIFICATES OF INSPECTION AND PAY ALL LEGAL FEES IN CONNECTION WITH THE WORK OF THIS PROJECT. THESE DRAWINGS AND ASSOCIATED DATA ARE FOR THE APPLICATION FOR A SIGNIFICANT ALTERATION PERMIT.
5. THE SCOPE OF SERVICES FOR THIS PROJECT DOES NOT INCLUDE EITHER SPECIFICALLY OR BY IMPLICATION ANY ENVIRONMENTAL ASSESSMENT OF THE SITE, IMPACT TO RESOURCES FROM IMPORTED RECLAMATION MATERIALS, OR IDENTIFICATION OR PREVENTION OF POLLUTANTS, HAZARDOUS MATERIALS OR CONDITIONS.
6. DRAWINGS COMPILED USING AVAILABLE GEOSPATIAL DATA & AERIAL IMAGERY FROM RIGIS, AND FIELD-BASED DATA COLLECTED BY RMA & MCCUE ENVIRONMENTAL. WETLAND FLAGS DELINEATED BY MCCUE'S PROFESSIONAL WETLAND SCIENTIST. PERTINENT SITE FEATURES AND WETLAND GPS LOCATED. INFORMATION IS PROVIDED FOR REFERENCE PURPOSES ONLY AND SHOULD NOT BE CONSTRUED AS AN ACCURATE BOUNDARY OR TOPOGRAPHIC SURVEY.
7. TOPOGRAPHY DERIVED FROM A DIGITAL ELEVATION MODEL ORIGINALLY PRODUCED AS PART OF THE 2011 NORTHEAST LIAR PROJECT. DISTRIBUTED BY RIGIS IN NAVD88. FIELD OBSERVED CORRECTIONS MADE TO MORE ACCURATELY DEPICT PRESENT (SEPTEMBER 2023) SITE CONDITIONS.
 - 7.1. DUE TO THE NATURE OF WORK OCCURRING AT THE SITE PRODUCING TRANSIENT SOIL PILES, GROUND SURFACE CONTOURS FREQUENTLY SHIFT AND SHOULD NOT BE CONSIDERED ACCURATE BEYOND GENERAL DRAINAGE PATTERNS WITHIN THE QUARRY AREA.
8. THE CONTRACTOR SHALL BE SOLELY RESPONSIBLE FOR JOB SITE SAFETY. THE CONTRACTOR SHALL PROVIDE TEMPORARY FENCING AND/OR BARRIERS AROUND ALL OPEN EXCAVATED AREAS, AND CONDUCT ALL WORK IN ACCORDANCE WITH OSHA STANDARDS AND THE TOWN OF BARRINGTON REQUIREMENTS.
 - 8.1. ALL SAFETY REGULATIONS ARE TO BE STRICTLY FOLLOWED. METHODS OF CONSTRUCTION AND ERECTION OF STRUCTURAL MATERIAL ARE THE RESPONSIBILITY OF THE CONTRACTOR.
 - 8.2. ALL WORK SHALL CONFORM TO THE LATEST EDITION OF THE OSHA CODE, THE RHODE ISLAND STATE BUILDING CODE, AND THE REFERENCED STANDARDS INCLUDED HEREIN THAT ARE APPLICABLE TO THIS PROJECT.
9. EXISTING AND PROPOSED SITE FEATURES SHOWN THESE DRAWINGS HAVE BEEN DEVELOPED FOR REFERENCE FOR THIS SIGNIFICANT ALTERATION PERMIT APPLICATION. ALL EXISTING CONDITIONS SHOWN SHALL BE CONSIDERED APPROXIMATE AND ARE INCOMPLETE UNLESS ACCOMPANIED BY SURVEY PLANS PERFORMED BY A RI REGISTERED LAND SURVEYOR. THE OWNER SHALL BE RESPONSIBLE FOR VERIFYING THAT THE PROPOSED IMPROVEMENTS SHOWN ON THE ABOVE REFERENCED PLANS DO NOT CONFLICT WITH ANY KNOWN EXISTING OR OTHER PROPOSED. IF ANY CONFLICTS ARE DISCOVERED, THE OWNER SHALL NOTIFY RMA ANY PORTION OF THE SITE WORK WHICH WOULD BE AFFECTED.
10. ALL CONSTRUCTION INDICATED ON THESE DRAWINGS SHALL BE PERFORMED IN ACCORDANCE WITH REGULATORY PERMITS ISSUED FOR THIS PROJECT, THE LATEST EDITION OF THE RHODE ISLAND STATE BUILDING CODE.
11. ANY DISCREPANCIES ON THESE PLANS WITH REGARD TO DIMENSIONS OR CONDITIONS SHALL BE BROUGHT TO THE ATTENTION OF RMA, THE OWNER, AND THE ENGINEER OF RECORD BEFORE PROCEEDING WITH THE AFFECTED PORTION OF WORK.
12. DEPTHS AND THICKNESS OF THE SUBSURFACE STRATA INDICATED HEREIN ARE GENERALIZED FROM LIMITED DATA THAT HAS NOT BEEN VERIFIED BY RMA. INFORMATION SHOWN FOR THE DAM IS INTERPOLATED AND MAY VARY DUE TO THE NATURE OF THE AVAILABLE INFORMATION.
13. THE CONTRACTOR SHALL BE RESPONSIBLE FOR VERIFYING ALL DIMENSIONS. PLANS SHALL NOT BE SCALED FOR DIMENSIONS.
14. GEOTECHNICAL RELATED CONSTRUCTION SHALL BE PERFORMED UNDER THE SUPERVISION OF A QUALIFIED RI PROFESSIONAL ENGINEER.
15. HORIZONTAL COORDINATE SYSTEM: NAD 1983 STATE PLANE RHODE ISLAND FIPS 3800 FEET
16. VERTICAL COORDINATE SYSTEM: NAVD88
17. THE OWNER SHALL BE RESPONSIBLE FOR MAINTAINING AND REGULATING BASE FLOW AND STORM FLOWS THAT ARE REFERENCED IN PREVIOUS PERMITS OR APPROVALS.
18. THE OWNER SHALL BE RESPONSIBLE FOR DISPOSAL OF ALL PROJECT DEMOLITION AND EXCESS MATERIAL IN ACCORDANCE WITH RHODE ISLAND, LOCAL, AND FEDERAL LAWS.
19. THE CONTRACTOR SHALL PROTECT ALL ADJACENT STRUCTURES AND UTILITIES. THE CONTRACTOR SHALL BE RESPONSIBLE FOR REPAIR OF ALL DAMAGE TO ADJACENT STRUCTURES AND UTILITIES AT NO ADDITIONAL COST TO THE OWNER.
20. THE OWNER SHALL COMPLY WITH ALL CONDITIONS OF ALL PERMITS FOR THE WORK.
21. THE OWNER SHALL FOLLOW ALL OSHA AND OTHER APPLICABLE FEDERAL, STATE, AND LOCAL STANDARDS FOR ALL PROJECT COMPONENTS AND ACTIVITIES. THE OWNER OR THEIR CONTRACTOR SHALL BE SOLELY RESPONSIBLE FOR ALL SITE SAFETY PROCEDURES AND PRACTICES REGARDLESS OF THE PRESENCE OF THE OWNER OR ENGINEER.
22. ALL CONSTRUCTION ACTIVITIES SHALL BE CONFINED WITHIN THE OWNERS PROPERTY LIMITS AT ALL TIMES.
23. WHERE REFERENCE IS MADE TO ANY STANDARD SPECIFICATION, IT SHALL MEAN THE MOST RECENT SPECIFICATION, CODE, STANDARD, OR INTERIM SPECIFICATIONS OF THE ORGANIZATION REFERRED TO AND SHALL BE CONSIDERED A PART OF THESE CONTRACT DOCUMENTS TO THE EXTENT INDICATED. IN CASE OF CONFLICT, THE MORE RIGID REQUIREMENTS AND CODES SHALL GOVERN. THESE CODES INCLUDE, BUT ARE NOT LIMITED TO: AMERICAN SOCIETY FOR TESTING AND MATERIALS (ASTM).
24. THE CONTRACTOR SHALL MAINTAIN A SECURE SITE AND PROVIDE APPROPRIATE SAFETY MEASURES TO PREVENT ACCIDENTS. THE SAFETY MEASURES SHALL INCLUDE, BUT NOT BE LIMITED TO SIGNAGE, BARRICADES, FENCES, FLASHING WARNING LIGHTS, AND POLICING IF NECESSARY.



LOCUS MAP
NOT TO SCALE



RMA GeoEnvironmental
20 Main Street
Wickford, Rhode Island 02852
WWW.RMAHYDRO.COM

No.	Revision	Date	App.
1	RESPONSE TO RIDEM COMMENTS DATED 10/20/2024	11/13/2024	JER

Designed by: ETS Drawn by: ETS Checked by: JER
Scale: 1" = 80' Date: DECEMBER 2023

RIDEM FRESHWATER APPLICATION FOR SIGNIFICANT ALTERATION
MELLO FAMILY REVOCABLE TRUST
1635 FISH ROAD
TIVERTON, RI 02878

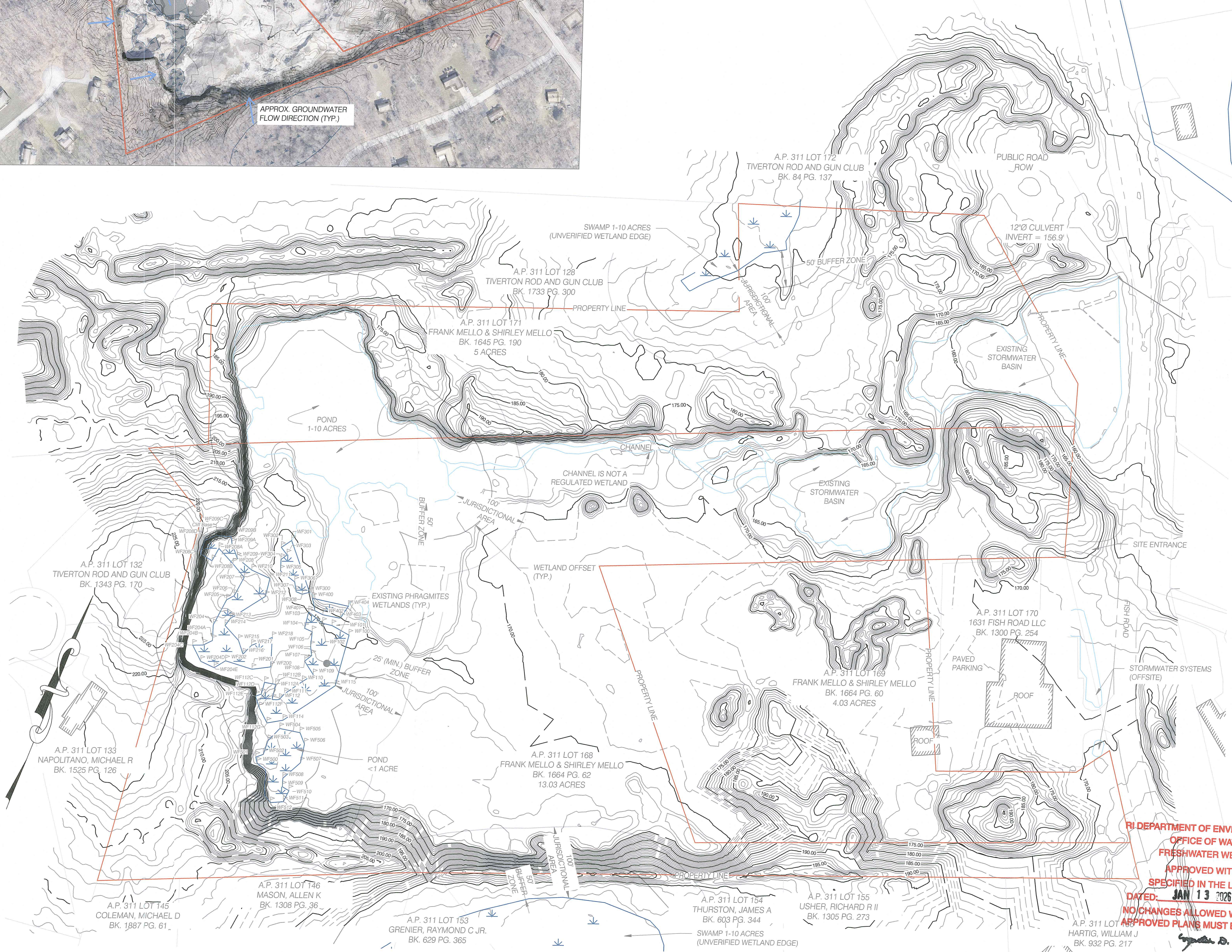
Client/Owner: MELLO FAMILY REVOCABLE TRUST
120 PARADISE AVENUE
MIDDLETOWN, RI 02842

Issued for: REGULATORY REVIEW & PERMITTING

Drawing Title: EXISTING CONDITIONS
1635 FISH ROAD
TIVERTON, RI 02878

Drawing Number: EX-1
Sheet 1 of 6
Project Number: 23210.00
Survey Index: -

JOSHUA E. ROSENBERG
REGISTERED PROFESSIONAL ENGINEER
CIVIL



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

APPROVED WITH CONDITIONS AS SPECIFIED IN THE LETTER OF APPROVAL
DATED: JAN 13 2026 FILE #: 23-0268
NO CHANGES ALLOWED WITHOUT PRIOR APPROVAL
APPROVED PLANS MUST BE AT CONSTRUCTION SITE

GRAPHIC SCALE
ON ORIGINAL: 0 40 80 160 320
(in feet)
1" = 80'

EROSION AND SEDIMENT CONTROL NOTES

- SOIL EROSION AND SEDIMENTATION CONTROLS SHALL BE PROVIDED IN ACCORDANCE WITH THE "RHODE ISLAND SOIL EROSION AND SEDIMENT CONTROL HANDBOOK", AND TO THE SATISFACTION OF THE ENGINEER.
- THE LIMITS OF WETLAND DISTURBANCE SHALL BE KEPT TO A MINIMUM WITHIN THE APPROVED AREA. ALL WETLAND AREAS OUTSIDE THE RIDEM APPROVED LIMITS SHALL NOT BE DISTURBED.
- DUST SHALL BE CONTROLLED BY APPROVED METHODS PER REGULATORY APPROVALS.
- THE CONTRACTOR SHALL SCHEDULE HIS/HER WORK TO ALLOW THE FINISHED GRADE ELEVATIONS TO DRAIN PROPERLY WITHOUT PONDING. SPECIFICALLY, ALLOW WATER TO DESTABILIZE RECLAMATION FILL AREA. PROVIDE TEMPORARY POSITIVE DRAINAGE, AS REQUIRED, TO STABILIZED DISCHARGE POINTS.
- THE OWNER SHALL PREVENT ANY UNSUITABLE MATERIALS ENTERING DOWNSTREAM WATERCOURSES AND STORMWATER DRAINAGE SYSTEMS.
- DURING RECLAMATION ACTIVITIES, THE OWNER SHALL BE RESPONSIBLE FOR MAINTAINING DRAINAGE OF GROUNDWATER SEEPAGE AND RAINFALL RUNOFF TOWARDS THE NORTHERN SIDE OF THE QUARRY (EXISTING POND AREA) AND ULTIMATELY TO THE SITE STORMWATER SYSTEMS.
- EROSION AND SEDIMENT CONTROL STRUCTURES SHALL BE INSTALLED AT THE SITE PRIOR TO THE START OF CONSTRUCTION AND RECLAMATION ACTIVITIES AND BE PROPERLY MAINTAINED UNTIL ALL DISTURBED AREAS STABILIZED, INCLUDING:
 - INSTALLATION OF A CONTINUOUS LINE OF SILT FENCING ALONG EDGES OF EXISTING WATER FEATURES AS NOTED IN THE PLANS.
 - CONTINUOUS LINE OF STAKED STRAWBALES ALONG THE UPLAND EDGE OF DISTURBED AREA REQUIRED FOR CONSTRUCTION OF THE WETLAND MITIGATION AREA.
- SOIL STOCKPILES AND DEPOSITION AREAS FOR CONSTRUCTION MATERIALS SHALL BE LOCATED OUTSIDE WETLAND AREAS AND ASSOCIATED BUFFERS AND SHALL BE AS REQUIRED FOR USE.
- ALL STOCKPILES OF EXCAVATED EARTH AND AREAS OF DISTURBED EARTH NOT SUBJECT TO ON GOING QUARRY CONSTRUCTION ACTIVITIES SHALL BE STABILIZED USING TEMPORARY SEEDING (HYDROSEED) WITHIN 14 DAYS AFTER CONSTRUCTION ACTIVITIES CEASE UNLESS ACTIVITY IS TO RESUME WITHIN 21 DAYS.
- SOIL EROSION AND SEDIMENTATION CONTROL MEASURES SHALL BE INSPECTED AND MAINTAINED AT

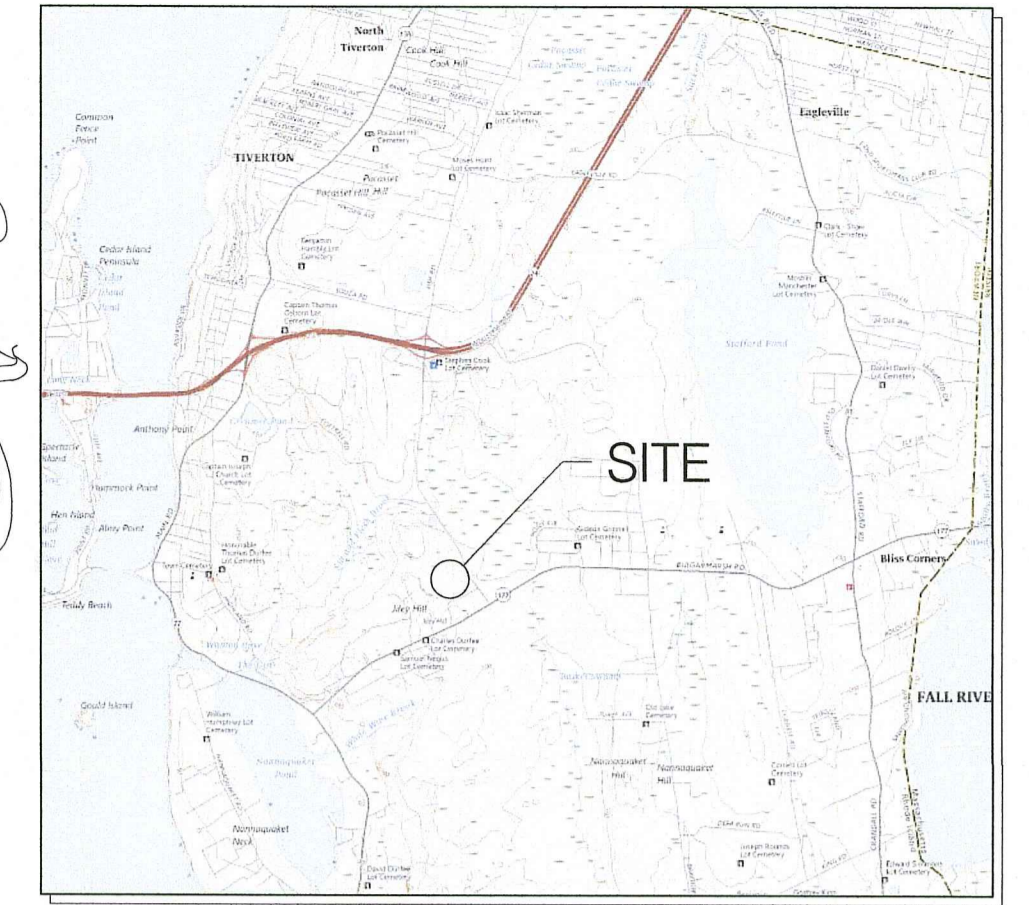
- MINIMUM AFTER EACH STORM EVENT OF 1 INCH OR GREATER DURING CONSTRUCTION TO INSURE THAT CHANNELS, DITCHES AND PIPES ARE CLEAR OF DEBRIS AND THAT THE EROSION CONTROL BARRIERS ARE INTACT. IDENTIFIED DEFICIENCIES SHALL BE CORRECTED IMMEDIATELY.
- EROSION CONTROL BARRIERS SHALL BE MODIFIED OR EXPANDED AS FIELD CONDITIONS WARRANT.
- THE CONTRACTOR SHALL MAINTAIN A SUFFICIENT RESERVE OF VARIOUS EROSION CONTROL MATERIALS ONSITE AT ALL TIMES FOR EMERGENCY PURPOSES.
- ANY DEWATERING WASTE WATERS PUMPED FROM EXCAVATIONS SHALL BE CONVEYED BY HOSE TO AN UPLAND AREA AND DISCHARGED INTO STRAW BALE ENCLOSURES OR SEDIMENTATION BAGS OUTSIDE ALL WETLAND AND WETLAND BUFFER AREAS AS REQUIRED.
- CONSTRUCTION SITE WASTE MATERIALS SHALL BE PROPERLY CONTAINED ONSITE AND DISPOSED OFF SITE IN ACCORDANCE WITH ALL APPLICABLE LOCAL AND STATE REGULATIONS.
- THE CONTRACTOR SHALL MAINTAIN SURFACE DRAINAGE DURING CONSTRUCTION. STORMWATER SHALL BE MAINTAINED AWAY FROM WORK SITES WHILE PREVENTING AREAS OF EROSION.
- ANTI-TRACKING PADS SHALL BE PROVIDED AT ALL POINTS OF EGRESS OR INGRESS AND SHALL BE MAINTAINED TO LIMIT TRACKING OR FLOWING OF SEDIMENT ONTO PUBLIC ROADS.
- EROSION CONTROL BARRIERS SHALL BE INSTALLED PRIOR TO COMMENCEMENT OF CONSTRUCTION OPERATIONS.
- THE CONTRACTOR SHALL CLEAN AND MAINTAIN EROSION CONTROL BARRIER WHEN SEDIMENT ACCUMULATES TO ONE HALF THE HEIGHT OF THE STRAWBALES OR ONE THIRD THE HEIGHT OF SILT FENCE. MATERIAL COLLECTED FROM THE SILTATION BARRIERS SHALL BE REMOVED AS NECESSARY AND DISPOSED IN AN UPLAND AREA.
- RIP-RAP OR OTHER ENERGY DISSIPATORS SHALL BE USED WHERE NECESSARY TO PREVENT SCOUR.

SOIL & BANK STABILIZATION NOTES

- IT IS INTENDED THAT SOIL SLOPES WILL NOT BE IN EXCESS OF 3:1, OR 2.5:1 AT THE TIE IN WITH REINFORCED STONE SLOPE.
- IT IS INTENDED THAT NO RESULTANT STONE SLOPE WILL BE IN EXCESS OF 1.5:1.
- ALL MATERIALS ARE TO BE INSTALLED IN ACCORDANCE WITH MANUFACTURERS SPECIFICATIONS.
- IMPORTED AND PLACED MATERIAL COULD BE SUSCEPTIBLE TO CONSOLIDATION SETTLEMENT. IN ORDER TO MAINTAIN GRADE, IT WILL BE NECESSARY TO PERIODICALLY IMPORT ADDITIONAL GRANULAR MATERIAL TO RE-FILL THE SURFACE AS SETTLEMENT OCCURS.
- REVIEW BANK STABILIZATION ANNUALLY AND FOLLOWING ALL LARGE STORM EVENTS. REPAIR AS NEEDED.

LEGEND

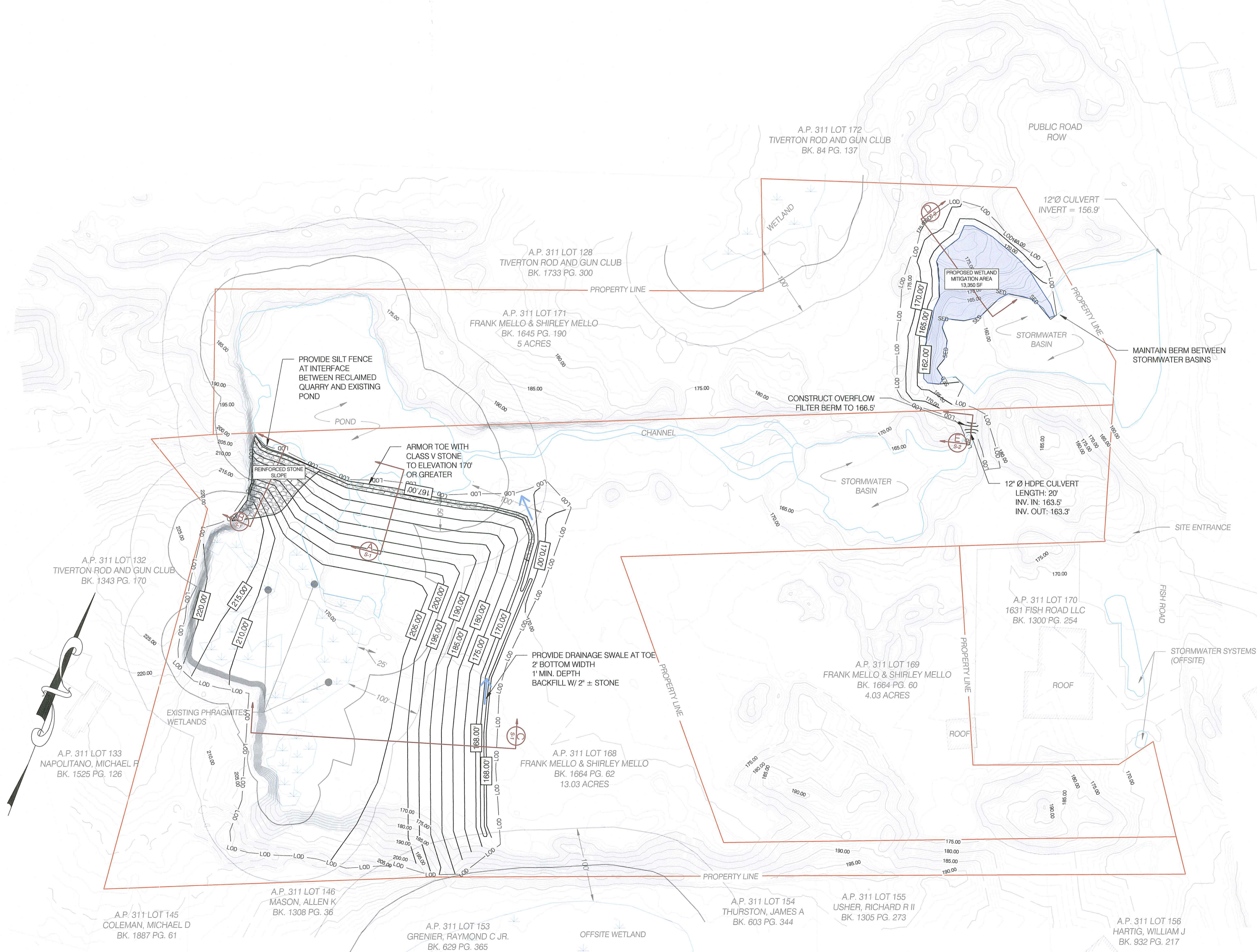
- PARCEL BOUNDARY LINE
- ABUTTER PARCEL BOUNDARY LINE
- TOPOGRAPHIC CONTOUR - EX Minor
- TOPOGRAPHIC CONTOUR - EX Major
- GRADE CONTOUR - PROPOSED
- SITE FEATURE - EXISTING
- STRUCTURE - EXISTING
- SITE FEATURE - PROPOSED
- WETLAND - type AQUATIC VEG
- EDGE OF PAVEMENT
- SETBACKS
- FLOW DIRECTION
- POND / CHANNEL
- CULVERT
- LOD, SILT FENCE / SEDIMENT PROTECTION
- LOD, STRAW BALE / SEDIMENT PROTECTION



LOCUS MAP
NOT TO SCALE

GENERAL CONSTRUCTION NOTES

- ALL WORK SHALL CONFORM TO THE STANDARDS AND REQUIREMENTS AS SHOWN IN THESE PLANS AND SPECIFICATIONS OR REGULATORY DOCUMENTS.
- THE RHODE ISLAND DEPARTMENT OF TRANSPORTATION STANDARD SPECIFICATIONS FOR ROAD AND BRIDGES CONSTRUCTION AS AMENDED (LATEST REVISION), RHODE ISLAND STANDARD DETAILS AND THE TOWN OF BARRINGTON STANDARD DETAILS AND CONSTRUCTION STANDARDS ARE MADE A PART HEREOF AS FULLY AND COMPLETELY AS IF ATTACHED HERETO. THE LATEST EDITION OF THE STANDARD SPECIFICATIONS FOR ROAD AND BRIDGES CONSTRUCTION MAY BE OBTAINED AT THE RHODE ISLAND DEPARTMENT OF TRANSPORTATION.
- PRIOR TO CONSTRUCTION, THE CONTRACTOR SHALL VERIFY THE CONDITIONS SHOWN HEREIN AND NOTIFY THE ENGINEER IN WRITING OF ANY DISCREPANCIES IN DIMENSIONS AND/OR SITE CONDITIONS PRIOR TO THE FABRICATION AND/OR ORDERING OF ANY CONSTRUCTION MATERIALS. THE CONTRACTOR SHALL NOT BEGIN CONSTRUCTION IN ANY SUCH AFFECTED AREA UNTIL THE DISCREPANCY HAS BEEN RESOLVED BY THE CONTRACTOR AND APPROVED BY THE ENGINEER.
- PLACEMENT OF SLOPE FOUNDATION LAYERS TO 1.5 FEET ABOVE WATER LEVELS AND INTERMEDIATE LIFTS OF RECLAMATION FILL SHALL REQUIRE SUPERVISION FROM A PROFESSIONAL GEOTECHNICAL ENGINEER. A PROFESSIONAL GEOTECHNICAL ENGINEER SHALL RE-EVALUATE RECLAMATION MATERIAL PLACEMENT AND SLOPE STABILITY ONCE A HEIGHT OF 20 FEET IS ACHIEVED IN THE RECLAMATION AREA. OWNER SHALL MAINTAIN RECORDS OF MATERIAL PLACED FOR RECLAMATION FILL LIFTS FOR REVIEW.
- THE CONTRACTOR SHALL BE RESPONSIBLE FOR BRINGING ALL ELEMENTS OF THE PROJECT IN CONFORMANCE WITH THESE PLANS AND SPECIFICATIONS. IF ANY MODIFICATIONS ARE REQUIRED IN ANY ELEMENT, THE CONTRACTOR SHALL SUBMIT PROPOSED CHANGES IN WRITING TO THE ENGINEER FOR REVIEW.
- ALL SAFETY REGULATIONS ARE TO BE STRICTLY FOLLOWED. METHODS OF CONSTRUCTION AND ERECTION OF STRUCTURAL MATERIAL ARE THE RESPONSIBILITY OF THE CONTRACTOR.
- ALL WORK SHALL COMPLY WITH FEDERAL LAWS, STATE REGULATIONS, AND LOCAL LAWS AND STATUTES AND THE REQUIREMENTS AND CONDITIONS OF ALL REGULATORY PERMITS ISSUED FOR THE WORK.
- ALL WORK SHALL CONFORM TO THE LATEST EDITION OF THE OSHA CODE, THE RHODE ISLAND STATE BUILDING CODE, AND THE REFERENCED STANDARDS INCLUDED HEREIN THAT ARE APPLICABLE TO THIS PROJECT.
- IT SHALL BE THE CONTRACTOR'S RESPONSIBILITY TO OBTAIN THE SURVEY SUPPORT NEEDED TO COMPLETE THE WORK, INCLUDING STAKEOUT. TO ENSURE THE WORK IS COMPLETED CONSISTENT WITH PROJECT PLANS AND ASSOCIATED REGULATORY APPROVALS. CONTRACTOR TO PRESERVE SURVEY BENCHMARKS.
- THE CONTRACTOR SHALL PROTECT ALL WETLANDS AND ASSOCIATED RESOURCES FROM INTRUSION BY TURBID WATERS, CONSTRUCTION DEBRIS, CONSTRUCTION EQUIPMENT, OR PERSONNEL DURING ALL WORK ACTIVITIES.
- DAMAGE TO ANY PROPERTY, PRIVATE OR OF PUBLIC TRUST, OCCURRING DURING THE CONSTRUCTION BY THE CONTRACTOR, SHALL BE THE RESPONSIBILITY OF THE CONTRACTOR AND SHALL BE REPAIRED TO THE SATISFACTION OF THE OWNER AT THE EXPENSE OF THE CONTRACTOR.
- ALL COMPONENTS SHALL BE INSTALLED PER EACH MANUFACTURERS SPECIFICATIONS AND/OR STANDARD INDUSTRY PRACTICE AS APPLICABLE.
- THE OWNER OR CONTRACTOR SHALL OBTAIN AND PAY FOR ALL NECESSARY PERMITS, LICENSES, CERTIFICATES OF INSPECTION, AND PAY ALL LEGAL FEES IN CONNECTION WITH THE WORK OF THIS CONTRACT. FAILURE TO CONSIDER ANY CONDITION OF THE REGULATORY PERMITS AS A PART OF THE BID SHALL NOT RELIEVE THE CONTRACTOR FROM HIS RESPONSIBILITY TO APPLY THOSE CONDITIONS TO HIS WORK AT NO ADDITIONAL COST TO THE OWNER.



RMA GeoEnvironmental
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No.	Revision	Date	App.
2	UPDATE LOD PER RIDEM CORRESPONDENCE DATED 10/26/2024	1/27/2024	JER
1	UPDATE EX WETLAND IN RESPONSE TO RIDEM COMMENTS DATED 10/22/2024	11/13/2024	JER

Designed by: ETS Drawn by: ETS Checked by: JER
Scale: 1" = 80' Date: DECEMBER 2023

RIDEM FRESHWATER APPLICATION FOR SIGNIFICANT ALTERATION
MELLO FAMILY REVOCABLE TRUST
1635 FISH ROAD
TIVERTON, RI 02878

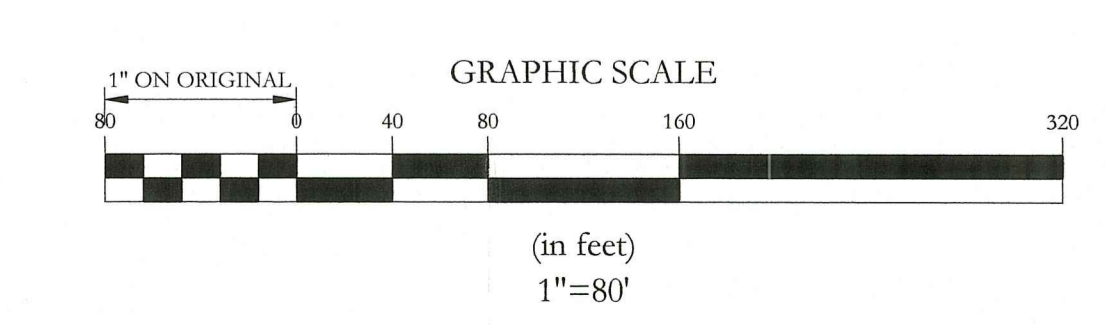
Client/Owner: MELLO FAMILY REVOCABLE TRUST
120 PARADISE AVENUE
MIDDLETOWN, RI 02842

Issued for: REGULATORY REVIEW & PERMITTING

Drawing Title: PROPOSED CONDITIONS
1635 FISH ROAD
TIVERTON, RI 02878
Environmental Management
FEB 13 2025
Office of Water Resources

	Drawing Number: PR-1
	Sheet 2 of 6
	Project Number: 23210.00
	Survey Index: -

RI DEPARTMENT OF ENVIRONMENTAL MANAGEMENT
OFFICE OF WATER RESOURCES
FRESHWATER WETLANDS PROGRAM
APPROVED WITH CONDITIONS AS SPECIFIED IN THE LETTER OF APPROVAL
DATED: JAN 13 2025 FILE # 23-0268
NO CHANGES ALLOWED WITHOUT PRIOR APPROVAL
APPROVED PLANS MUST BE AT CONSTRUCTION SITE
Joseph D. Arnold



Summary for Subcatchment EX_DA 1A: Subcat EX_DA 1A

Runoff = 16.54 cfs @ 12.19 hrs, Volume= 1.562 af, Depth= 2.16"
Routed to Pond 2P - Quarry Pond

Runoff by SCS TR-20 method, UH=SCS, Weighted-CN, Time Span= 0.00-30.00 hrs, dt= 0.01 hrs
Type III 24-hr 1-yr Rainfall=2.80"

Area (ac)	CN	Description
0.012	95	Gravel surface, HSG C
0.000	70	Woods, Good, HSG D
8.451	95	Gravel surface, HSG D
0.022	84	1 acre lots, 20% imp, HSG D
0.028	84	1 acre lots, 20% imp, HSG D
0.014	77	Woods, Good, HSG D
0.039	77	Woods, Good, HSG D
0.005	77	Woods, Good, HSG D
0.020	77	Woods, Good, HSG D
0.000	77	Woods, Good, HSG D
0.001	77	Woods, Good, HSG D
0.004	95	Gravel surface, HSG C
0.003	70	Woods, Good, HSG C
0.000	77	Woods, Good, HSG D
0.039	95	Gravel surface, HSG B
0.008	68	1 acre lots, 20% imp, HSG B
0.068	55	Woods, Good, HSG B
8.692	84	Weighted Average
8.695	99.92%	Pervious Area
0.007	0.08%	Impervious Area

Tc	Length (min)	Slope (ft/ft)	Velocity (ft/sec)	Capacity (cfs)	Description
10.1	67	0.0550	0.11		Sheet Flow, Woods: Light underbrush n= 0.400 P2= 3.40"
0.6	52	0.0775	1.39		Shallow Concentrated Flow, Woodland Kv= 5.0 fps
0.7	67	0.1050	1.62		Shallow Concentrated Flow, Woodland Kv= 5.0 fps
0.0	30	1.0000	16.10		Shallow Concentrated Flow, Unpaved Kv= 16.1 fps
2.7	189	0.0053	1.17		Shallow Concentrated Flow, Unpaved Kv= 16.1 fps
14.1	405	Total			

Summary for Subcatchment EX_DA 1B: Subcat EX_DA 1B

Runoff = 8.12 cfs @ 12.20 hrs, Volume= 0.567 af, Depth= 1.72"
Routed to Pond 2P - Quarry Pond

Runoff by SCS TR-20 method, UH=SCS, Weighted-CN, Time Span= 0.00-30.00 hrs, dt= 0.01 hrs
Type III 24-hr 1-yr Rainfall=2.80"

Area (ac)	CN	Description
3.097	95	Gravel surface, HSG D
0.278	73	Brush, Good, HSG D
0.037	73	Brush, Good, HSG D
0.003	77	Woods, Good, HSG D
0.003	77	Woods, Good, HSG D
0.004	77	Woods, Good, HSG D
0.015	73	Brush, Good, HSG D
0.068	73	Brush, Good, HSG D
0.013	95	Gravel surface, HSG D
0.016	77	Woods, Good, HSG D
0.021	95	Gravel surface, HSG B
0.046	48	Brush, Good, HSG B
0.016	95	Gravel surface, HSG B
0.100	95	Gravel surface, HSG B
0.009	48	Brush, Good, HSG B
0.007	48	Brush, Good, HSG B
0.255	55	Woods, Good, HSG B
3.858	89	Weighted Average
3.858	100.00%	Pervious Area

Tc	Length (min)	Slope (ft/ft)	Velocity (ft/sec)	Capacity (cfs)	Description
11.2	68	0.0441	0.10		Sheet Flow, Woods: Light underbrush n= 0.400 P2= 3.40"
1.1	122	0.1475	1.92		Shallow Concentrated Flow, Woodland Kv= 5.0 fps
1.4	114	0.0790	1.41		Shallow Concentrated Flow, Woodland Kv= 5.0 fps
0.0	23	0.3043	8.88		Shallow Concentrated Flow, Unpaved Kv= 16.1 fps
0.7	137	0.0438	3.37		Shallow Concentrated Flow, Unpaved Kv= 16.1 fps
0.1	49	0.3061	8.91		Shallow Concentrated Flow, Unpaved Kv= 16.1 fps
14.5	513	Total			

Summary for Subcatchment EX_DA 1C: Subcat EX_DA 1C

Runoff = 23.95 cfs @ 12.11 hrs, Volume= 1.809 af, Depth= 1.80"
Routed to Pond 4P - EX SW Pond 1

Runoff by SCS TR-20 method, UH=SCS, Weighted-CN, Time Span= 0.00-30.00 hrs, dt= 0.01 hrs
Type III 24-hr 1-yr Rainfall=2.80"

Area (ac)	CN	Description
0.029	95	Woods, Good, HSG B/D
8.526	95	Gravel surface, HSG D
0.038	77	Woods, Good, HSG D
0.001	77	Woods, Good, HSG D
0.346	77	Woods, Good, HSG D
1.389	77	Woods, Good, HSG D
0.651	77	Woods, Good, HSG D
0.162	95	Gravel surface, HSG C
0.007	79	1 acre lots, 20% imp, HSG C
0.122	70	Woods, Good, HSG C
0.599	95	Gravel surface, HSG B
0.004	68	1 acre lots, 20% imp, HSG B
0.050	95	Woods, Good, HSG B
0.083	55	Woods, Good, HSG B
0.037	77	Woods, Good, HSG D
12.054	90	Weighted Average
12.052	99.98%	Pervious Area
0.002	0.02%	Impervious Area

Tc	Length (min)	Slope (ft/ft)	Velocity (ft/sec)	Capacity (cfs)	Description
3.6	100	0.0040	0.46		Sheet Flow, Quarry Surface n= 0.020 P2= 3.40"
3.5	330	0.0094	1.56		Shallow Concentrated Flow, Unpaved Kv= 16.1 fps
0.5	103	0.0389	3.18		Shallow Concentrated Flow, Unpaved Kv= 16.1 fps
7.6	533	Total			

Summary for Subcatchment EX_DA 2: Subcat EX_DA 2

Runoff = 1.01 cfs @ 12.20 hrs, Volume= 0.110 af, Depth= 0.57"
Routed to nonexistent node 2L

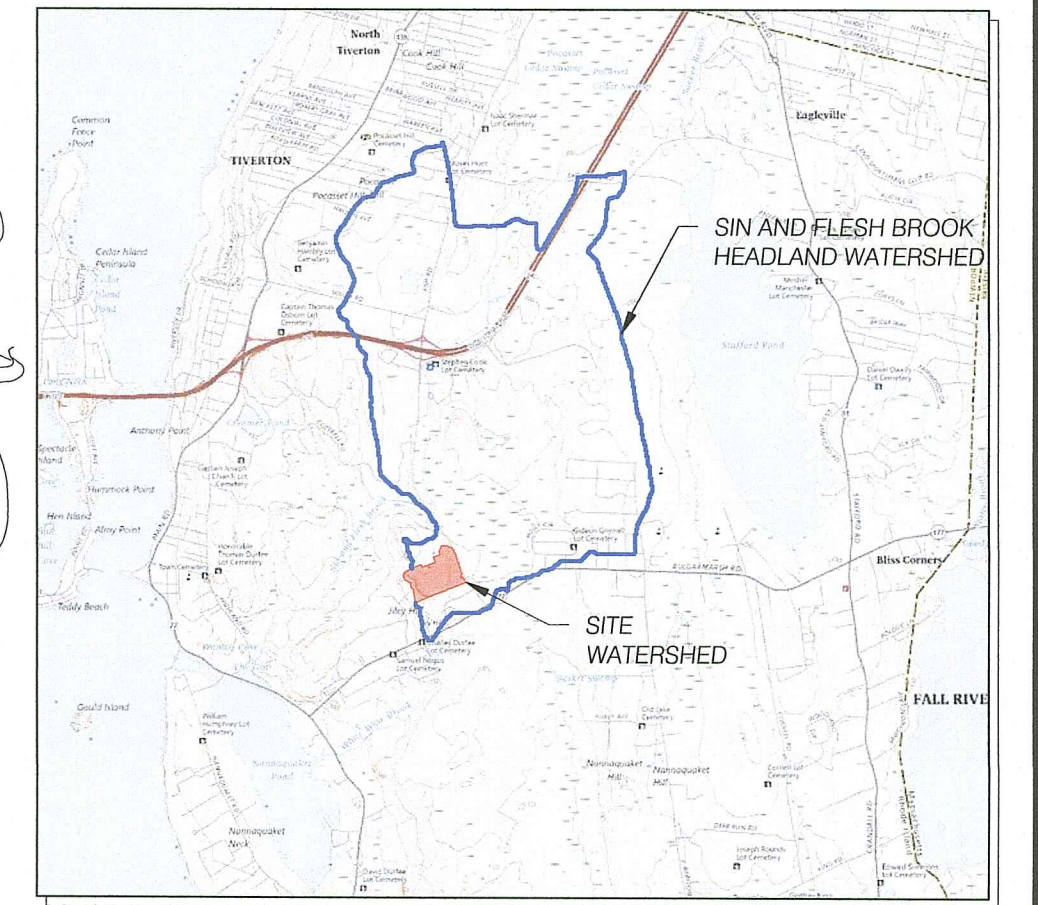
Runoff by SCS TR-20 method, UH=SCS, Weighted-CN, Time Span= 0.00-30.00 hrs, dt= 0.01 hrs
Type III 24-hr 1-yr Rainfall=2.80"

Area (ac)	CN	Description
0.926	95	Woods, Good, HSG B/D
0.088	96	Gravel surface, HSG D
0.009	96	Gravel surface, HSG D
0.000	96	Gravel surface, HSG D
0.001	96	Gravel surface, HSG D
0.002	96	Gravel surface, HSG D
0.090	77	Woods, Good, HSG D
0.948	77	Woods, Good, HSG D
0.046	77	Woods, Good, HSG D
0.023	77	Woods, Good, HSG D
0.198	77	Woods, Good, HSG D
2.328	69	Weighted Average
2.328	100.00%	Pervious Area

Tc	Length (min)	Slope (ft/ft)	Velocity (ft/sec)	Capacity (cfs)	Description
6.1	71	0.2200	0.19		Sheet Flow, Woods: Light underbrush n= 0.400 P2= 3.40"
0.5	53	0.1510	1.94		Shallow Concentrated Flow, Woodland Kv= 5.0 fps
5.6	112	0.0045	0.34		Shallow Concentrated Flow, Woodland Kv= 5.0 fps
12.2	236	Total			

LEGEND

- PARCEL BOUNDARY LINE
- ABUTTER PARCEL BOUNDARY LINE
- TOPOGRAPHIC CONTOUR - EXISTING (EX)
- TOPOGRAPHIC CONTOUR - EX Major
- GRADE CONTOUR - PROPOSED
- SITE FEATURE - EXISTING
- STRUCTURE - EXISTING
- SITE FEATURE - PROPOSED
- WETLAND - type AQUATIC VEG
- EDGE OF PAVEMENT
- SETBACKS
- FLOW DIRECTION
- POND / CHANNEL
- WATERSHED SUBCATCHMENT BOUNDARY
- HYDRAULIC FLOW PATH
- SOIL TYPE LIMIT



Existing Stormwater Runoff Summary Table

Rainfall Recurrence Interval	1-year	10-year	100-year
24 hour Rainfall Amount	2.8	4.9	8.6
Newport County (depth, in)			
Drainage Area 1 Peak Runoff (cfs)	4.13	15.34	47.63
Drainage Area 2 Peak Runoff (cfs)	1.01	4.08	10.84
Drainage Area 3 Peak Runoff (cfs)	0.71	1.62	3.26
Drainage Area 4 Peak Runoff (cfs)	1.57	2.86	5.1

DRAINAGE/HYDROLOGY NOTES

PLAN DEVELOPED FROM NOTES TAKEN DURING SITE VISITS AND AVAILABLE AERIAL IMAGERY AND GEOGRAPHIC DATA FROM RIGIS. INFORMATION IS PROVIDED FOR REFERENCE PURPOSES ONLY.

HORIZ. COORDINATE SYSTEM: NAD 1983 STATE PLANE RHODE ISLAND FIPS 3800 FEET

VERT. COORDINATE SYSTEM: NAVD83

HYDROLOGIC SOIL GROUP DATA FROM NRCS WEB SOIL SURVEY DATABASE

LAND USE DATA FROM THE NATIONAL LAND COVER DATABASE

BASED ON OBSERVATIONS MADE IN THE FIELD REGARDING SITE SPECIFIC GROUND COVER CONDITIONS, THE RUNOFF CURVE NUMBER WITHIN THE QUARRY AREA (APPROXIMATED AS GRAVEL SURFACE, HSG D) WAS REDUCED FROM 96 TO 95

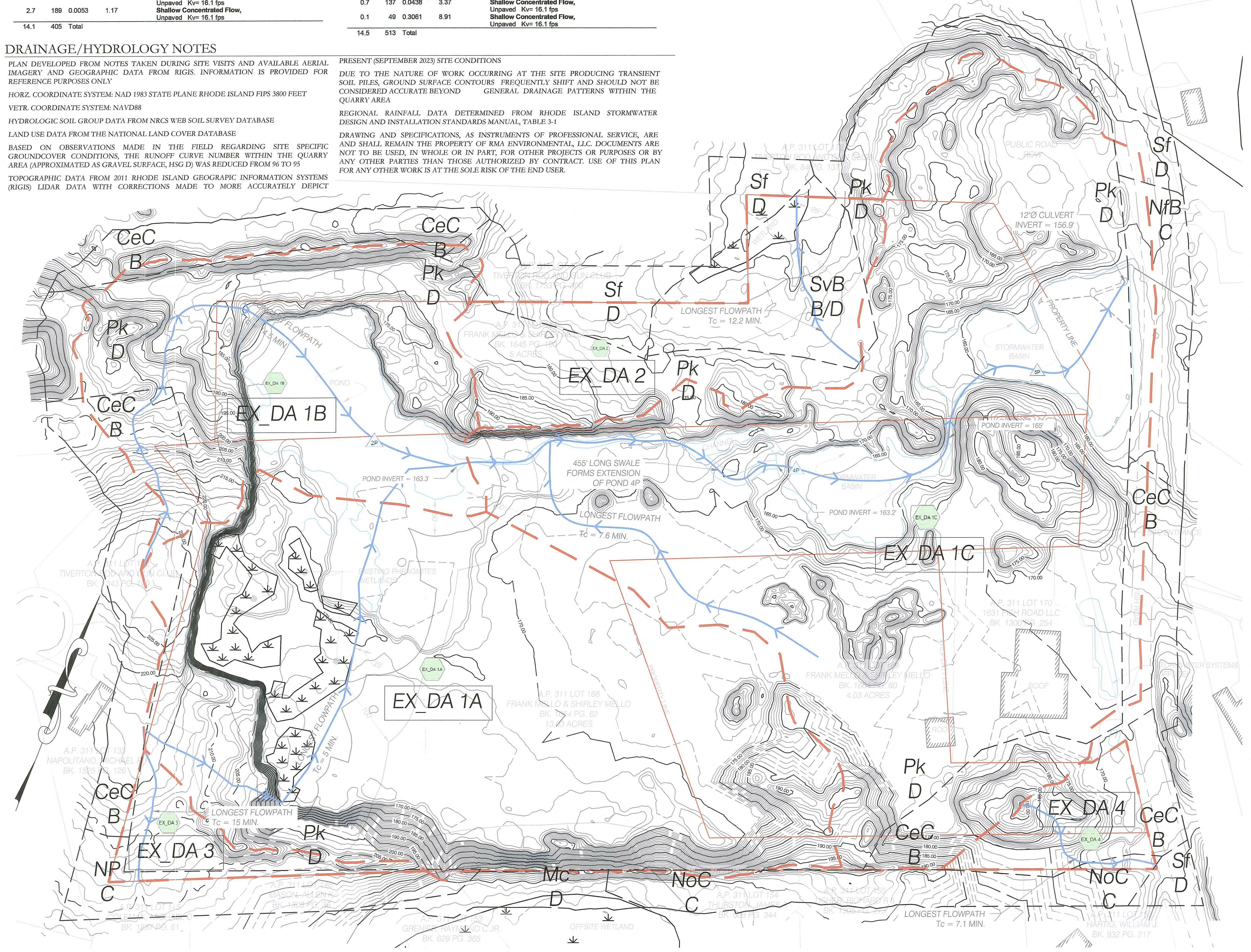
TOPOGRAPHIC DATA FROM 2011 RHODE ISLAND GEOGRAPHIC INFORMATION SYSTEMS (RIGIS) LIDAR DATA WITH CORRECTIONS MADE TO MORE ACCURATELY DEPICT

PRESENT (SEPTEMBER 2023) SITE CONDITIONS

DUE TO THE NATURE OF WORK OCCURRING AT THE SITE PRODUCING TRANSIENT SOIL FILES, GROUND SURFACE CONTOURS FREQUENTLY SHIFT AND SHOULD NOT BE CONSIDERED ACCURATE BEYOND GENERAL DRAINAGE PATTERNS WITHIN THE QUARRY AREA

REGIONAL RAINFALL DATA DETERMINED FROM RHODE ISLAND STORMWATER DESIGN AND INSTALLATION STANDARDS MANUAL, TABLE 3-1

DRAWING AND SPECIFICATIONS, AS INSTRUMENTS OF PROFESSIONAL SERVICE, ARE AND SHALL REMAIN THE PROPERTY OF RMA ENVIRONMENTAL, LLC. DOCUMENTS ARE NOT TO BE USED, IN WHOLE OR IN PART, FOR OTHER PROJECTS OR PURPOSES OR BY ANY OTHER PARTIES THAN THOSE AUTHORIZED BY CONTRACT. USE OF THIS PLAN FOR ANY OTHER WORK IS AT THE SOLE RISK OF THE END USER.



Summary for Subcatchment EX_DA 3: Subcat EX_DA 3

Runoff = 0.71 cfs @ 12.21 hrs, Volume= 0.066 af, Depth= 1.42"
Routed to nonexistent node 2L

Runoff by SCS TR-20 method, UH=SCS, Weighted-CN, Time Span= 0.00-30.00 hrs, dt= 0.01 hrs
Type III 24-hr 1-yr Rainfall=2.80"

Area (ac)	CN	Description
0.219	96	Gravel surface, HSG D
0.048	96	Gravel surface, HSG D
0.000	84	1 acre lots, 20% imp, HSG D
0.219	77	Woods, Good, HSG D
0.001	77	Woods, Good, HSG D
0.004	96	Gravel surface, HSG C
0.062	70	Woods, Good, HSG C
0.000	96	Gravel surface, HSG B
0.013	55	Woods, Good, HSG B
0.561	85	Weighted Average
0.561	100.00%	Pervious Area
0.000	0.00%	Impervious Area

Tc	Length (min)	Slope (ft/ft)	Velocity (ft/sec)	Capacity (cfs)	Description
13.8	100	0.0556	0.12		Sheet Flow, Woods: Light underbrush n= 0.400 P2= 3.40"
1.2	82	0.0650	1.17		Shallow Concentrated Flow, Woodland Kv= 5.0 fps
15.0	182	Total			

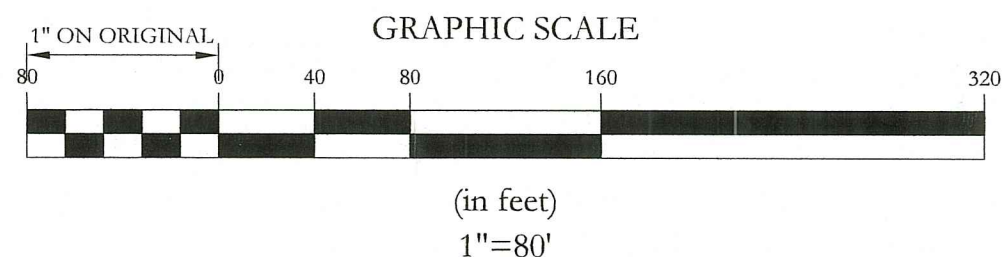
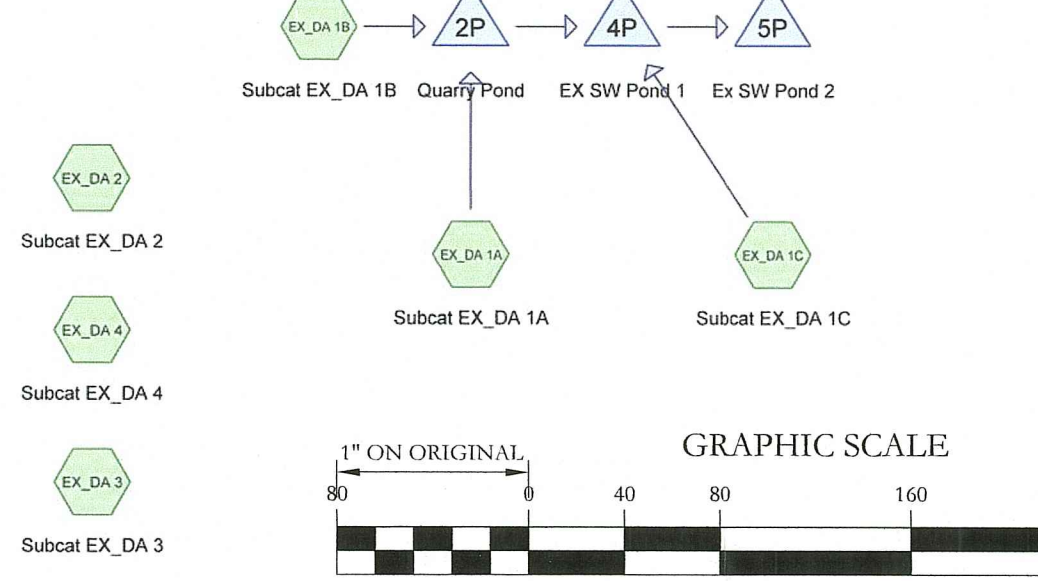
Summary for Subcatchment EX_DA 4: Subcat EX_DA 4

Runoff = 1.57 cfs @ 12.10 hrs, Volume= 0.124 af, Depth= 2.36"
Routed to nonexistent node 2L

Runoff by SCS TR-20 method, UH=SCS, Weighted-CN, Time Span= 0.00-30.00 hrs, dt= 0.01 hrs
Type III 24-hr 1-yr Rainfall=2.80"

Area (ac)	CN	Description
0.029	96	Gravel surface, HSG C
0.000	96	Gravel surface, HSG D
0.600	96	Gravel surface, HSG B
0.001	55	Woods, Good, HSG B
0.831	96	Weighted Average
0.831	100.00%	Pervious Area

Tc	Length (min)	Slope (ft/ft)	Velocity (ft/sec)	Capacity (cfs)	Description
6.1	71	0.2200	0.19		Sheet Flow, Woods: Light underbrush n= 0.400 P2= 3.40"
0.5	53	0.1510	1.94		Shallow Concentrated Flow, Woodland Kv= 5.0 fps
0.5	106	0.0410	3.26		Shallow Concentrated Flow, Unpaved Kv= 16.1 fps
7.1	230	Total			



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RIDEM FRESHWATER APPLICATION FOR SIGNIFICANT ALTERATION
MELLO FAMILY REVOCABLE TRUST
1635 FISH ROAD
TVERTON, RI 02878

Client/Owner: MELLO FAMILY REVOCABLE TRUST
120 PARADISE AVENUE
MIDDLETOWN, RI 02842

DESIGNED BY: ETS
DRAWN BY: ETS
CHECKED BY: JER

Scale: 1" = 80'
Date: DECEMBER 2023

REGULATORY REVIEW & PERMITTING

EXISTING DRAINAGE CONDITIONS
1635 FISH ROAD
TVERTON, RI 02878

Environmental Management
FEB 13 2025
Office of Water Resources

Drawing Number: D-1
Sheet: 3 of 6
Project Number: 23210.00
Survey Index: -

JOSHUA E. ROSENBERG
REGISTERED PROFESSIONAL ENGINEER
CIVIL

Summary for Subcatchment PR_DA 1A: Subcat PR_DA 1A

Runoff = 9.96 cfs @ 12.34 hrs, Volume= 1.134 af, Depth= 1.57"
 Routed to Pond 4P - EX SW Pond 1

Runoff by SCS TR-20 method, UH=SCS, Weighted-CN, Time Span= 0.00-30.00 hrs, dt= 0.01 hrs
 Type III 24-hr 1-yr Rainfall=2.80"

Area (ac)	CN	Description
0.012	96	Gravel surface, HSG C
0.000	70	Woods, Good, HSG C
2.936	95	Gravel surface, HSG D
0.002	84	1 acre lots, 20% imp, HSG D
0.026	84	1 acre lots, 20% imp, HSG D
0.014	77	Woods, Good, HSG D
0.039	77	Woods, Good, HSG D
0.005	77	Woods, Good, HSG D
0.020	77	Woods, Good, HSG D
0.000	77	Woods, Good, HSG D
0.001	77	Woods, Good, HSG D
0.004	95	Gravel surface, HSG C
0.003	70	Woods, Good, HSG C
0.000	77	Woods, Good, HSG D
0.039	95	Gravel surface, HSG B
0.008	88	1 acre lots, 20% imp, HSG B
0.068	55	Woods, Good, HSG B
5.515	84	50-75% Grass cover, Fair, HSG D
8.692	87	Weighted Average
8.685		99.92% Pervious Area
0.007		0.08% Impervious Area

Tc	Length (min)	Slope (ft/ft)	Velocity (ft/sec)	Capacity (cfs)	Description
16.2	100	0.0033	0.10		Sheet Flow, Grass Short n= 0.150 P2= 3.40"
2.9	90	0.0053	0.51		Shallow Concentrated Flow, Short Grass Pasture Kv= 7.0 fps
0.5	122	0.3040	3.86		Shallow Concentrated Flow, Short Grass Pasture Kv= 7.0 fps
4.4	355	0.0070	1.35		Shallow Concentrated Flow, Unpaved Kv= 16.1 fps
24.0	667	Total			

Summary for Subcatchment PR_DA 1B: Subcat PR_DA 1B

Runoff = 6.12 cfs @ 12.20 hrs, Volume= 0.567 af, Depth= 1.72"
 Routed to Pond 2P - Quarry Pond

Runoff by SCS TR-20 method, UH=SCS, Weighted-CN, Time Span= 0.00-30.00 hrs, dt= 0.01 hrs
 Type III 24-hr 1-yr Rainfall=2.80"

Area (ac)	CN	Description
3.087	95	Gravel surface, HSG D
0.278	73	Brush, Good, HSG D
0.037	73	Brush, Good, HSG D
0.003	77	Woods, Good, HSG D
0.003	77	Woods, Good, HSG D
0.004	77	Woods, Good, HSG D
0.015	73	Brush, Good, HSG D
0.088	73	Brush, Good, HSG D
0.013	95	Gravel surface, HSG D
0.016	77	Woods, Good, HSG D
0.021	95	Gravel surface, HSG B
0.046	48	Brush, Good, HSG B
0.016	55	Woods, Good, HSG B
0.100	95	Gravel surface, HSG B
0.009	48	Brush, Good, HSG B
0.007	48	Brush, Good, HSG B
0.255	55	Woods, Good, HSG B
3.958	89	Weighted Average
3.958		100.00% Pervious Area

Tc	Length (min)	Slope (ft/ft)	Velocity (ft/sec)	Capacity (cfs)	Description
11.2	88	0.0441	0.10		Sheet Flow, Woods: Light underbrush n= 0.400 P2= 3.40"
1.1	122	0.1475	1.92		Shallow Concentrated Flow, Woodland Kv= 5.0 fps
1.4	114	0.0790	1.41		Shallow Concentrated Flow, Woodland Kv= 5.0 fps
0.0	23	0.3043	8.88		Shallow Concentrated Flow, Unpaved Kv= 16.1 fps
0.7	137	0.0438	3.37		Shallow Concentrated Flow, Unpaved Kv= 16.1 fps
0.1	49	0.3061	8.91		Shallow Concentrated Flow, Unpaved Kv= 16.1 fps
14.5	513	Total			

Summary for Subcatchment PR_DA 1C: Subcat PR_DA 1C

Runoff = 23.95 cfs @ 12.11 hrs, Volume= 1.809 af, Depth= 1.80"
 Routed to Pond 4P - EX SW Pond 1

Runoff by SCS TR-20 method, UH=SCS, Weighted-CN, Time Span= 0.00-30.00 hrs, dt= 0.01 hrs
 Type III 24-hr 1-yr Rainfall=2.80"

Area (ac)	CN	Description
0.029	95	Woods, Good, HSG B/D
8.528	95	Gravel surface, HSG D
0.038	77	Woods, Good, HSG D
0.001	77	Woods, Good, HSG D
0.346	77	Woods, Good, HSG D
1.389	77	Woods, Good, HSG D
0.051	77	Woods, Good, HSG D
0.162	95	Gravel surface, HSG C
0.007	79	1 acre lots, 20% imp, HSG C
0.122	70	Woods, Good, HSG C
0.599	95	Gravel surface, HSG B
0.004	88	1 acre lots, 20% imp, HSG B
0.050	55	Woods, Good, HSG B
0.093	55	Woods, Good, HSG B
0.037	77	Woods, Good, HSG D
12.054	90	Weighted Average
12.052		99.98% Pervious Area
0.002		0.02% Impervious Area

Tc	Length (min)	Slope (ft/ft)	Velocity (ft/sec)	Capacity (cfs)	Description
3.6	100	0.0040	0.46		Sheet Flow, Quarry Surface n= 0.020 P2= 3.40"
3.5	330	0.0094	1.56		Shallow Concentrated Flow, Unpaved Kv= 16.1 fps
0.5	103	0.0389	3.18		Shallow Concentrated Flow, Unpaved Kv= 16.1 fps
7.6	533	Total			

Summary for Subcatchment EX_DA 2: Subcat EX_DA 2

Runoff = 1.01 cfs @ 12.20 hrs, Volume= 0.110 af, Depth= 0.57"
 Routed to nonexistent node 2L

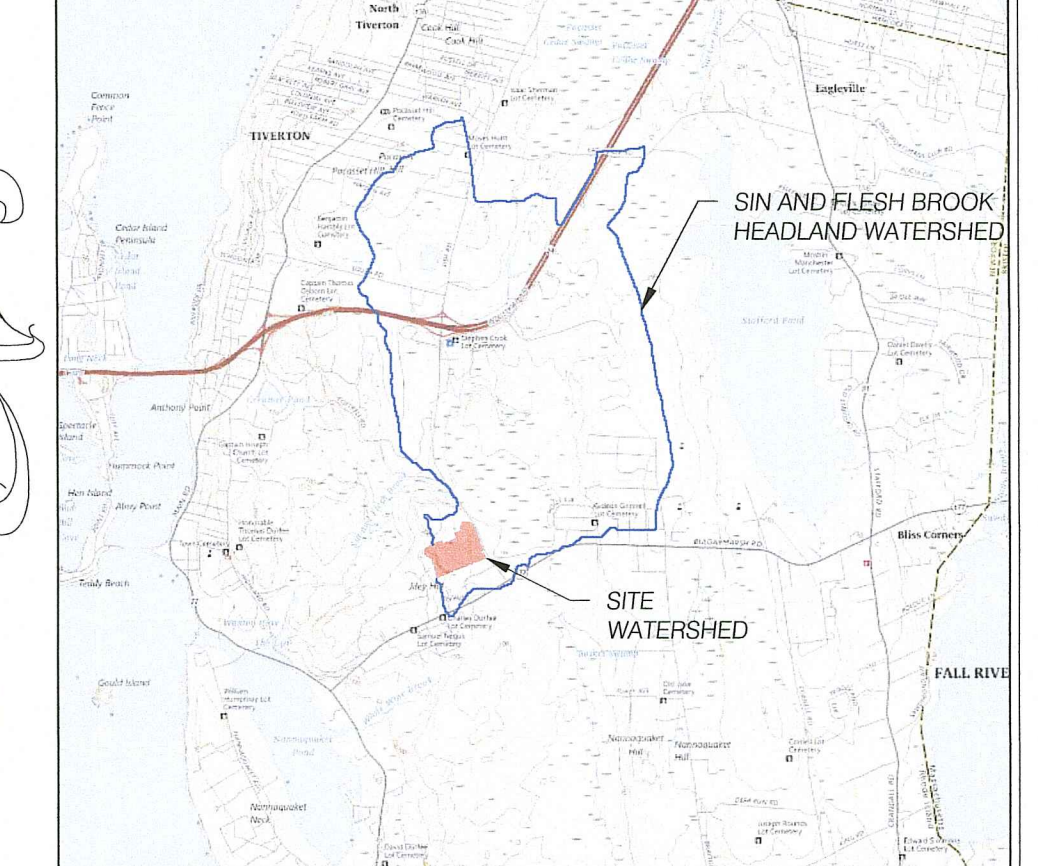
Runoff by SCS TR-20 method, UH=SCS, Weighted-CN, Time Span= 0.00-30.00 hrs, dt= 0.01 hrs
 Type III 24-hr 1-yr Rainfall=2.80"

Area (ac)	CN	Description
0.925	95	Woods, Good, HSG B/D
0.088	96	Gravel surface, HSG D
0.009	96	Gravel surface, HSG D
0.000	96	Gravel surface, HSG D
0.001	96	Gravel surface, HSG D
0.002	96	Gravel surface, HSG D
0.090	77	Woods, Good, HSG D
0.948	77	Woods, Good, HSG D
0.046	77	Woods, Good, HSG D
0.023	77	Woods, Good, HSG D
0.198	77	Woods, Good, HSG D
2.328	69	Weighted Average
2.328		100.00% Pervious Area

Tc	Length (min)	Slope (ft/ft)	Velocity (ft/sec)	Capacity (cfs)	Description
6.1	71	0.2200	0.19		Sheet Flow, Woods: Light underbrush n= 0.400 P2= 3.40"
0.5	53	0.1510	1.94		Shallow Concentrated Flow, Woodland Kv= 5.0 fps
5.6	112	0.0045	0.34		Shallow Concentrated Flow, Woodland Kv= 5.0 fps
12.2	236	Total			

LEGEND

- PARCEL BOUNDARY LINE
- ABUTTER PARCEL BOUNDARY LINE
- 100.00 TOPOGRAPHIC CONTOUR - EXISTING (EX)
- 100.00 TOPOGRAPHIC CONTOUR - EX Major
- 100.00 GRADE CONTOUR - PROPOSED
- SITE FEATURE - EXISTING
- STRUCTURE - EXISTING
- SITE FEATURE - PROPOSED
- WETLAND - type AQUATIC VEG
- EDGE OF PAVEMENT
- SETBACKS
- FLOW DIRECTION
- POND / CHANNEL
- WATERSHED SUBCATCHMENT BOUNDARY
- HYDRAULIC FLOW PATH
- SOIL TYPE LIMIT



Proposed Stormwater Runoff Summary Table

Rainfall Recurrence Interval	1-year	10-year	100-year
24 hour Rainfall Amount			
Newport County (depth, in)	2.8	4.9	8.6
Drainage Area 1 Peak Runoff (cfs)	3.48	7.44	46.69
Drainage Area 2 Peak Runoff (cfs)	1.01	4.08	10.84
Drainage Area 3 Peak Runoff (cfs)	0.71	1.62	3.26
Drainage Area 4 Peak Runoff (cfs)	1.57	2.86	5.1

Stormwater Runoff Comparison Table

Rainfall Recurrence Interval	1-year		10-year		100-year	
	(Existing)	(Proposed)	(Existing)	(Proposed)	(Existing)	(Proposed)
Drainage Area 1 Peak Runoff (cfs)	4.13	3.48	15.34	7.44	47.63	46.69
Drainage Area 2 Peak Runoff (cfs)	1.01	1.01	4.08	4.08	10.84	10.84
Drainage Area 3 Peak Runoff (cfs)	0.71	0.71	1.62	1.62	3.26	3.26
Drainage Area 4 Peak Runoff (cfs)	1.57	1.57	2.86	2.86	5.1	5.1

Summary for Subcatchment EX_DA 3: Subcat EX_DA 3

Runoff = 0.71 cfs @ 12.21 hrs, Volume= 0.066 af, Depth= 1.42"
 Routed to nonexistent node 2L

Runoff by SCS TR-20 method, UH=SCS, Weighted-CN, Time Span= 0.00-30.00 hrs, dt= 0.01 hrs
 Type III 24-hr 1-yr Rainfall=2.80"

Area (ac)	CN	Description
0.215	96	Gravel surface, HSG D
0.048	96	Gravel surface, HSG D
0.000	84	1 acre lots, 20% imp, HSG D
0.219	77	Woods, Good, HSG D
0.001	77	Woods, Good, HSG D
0.004	96	Gravel surface, HSG C
0.062	70	Woods, Good, HSG C
0.000	96	Gravel surface, HSG B
0.013	55	Woods, Good, HSG B
0.561	85	Weighted Average
0.000		100.00% Pervious Area
0.000		0.00% Impervious Area

Tc	Length (min)	Slope (ft/ft)	Velocity (ft/sec)	Capacity (cfs)	Description
13.8	100	0.0558	0.12		Sheet Flow, Woods: Light underbrush n= 0.400 P2= 3.40"
1.2	82	0.0550	1.17		Shallow Concentrated Flow, Woodland Kv= 5.0 fps
15.0	182	Total			

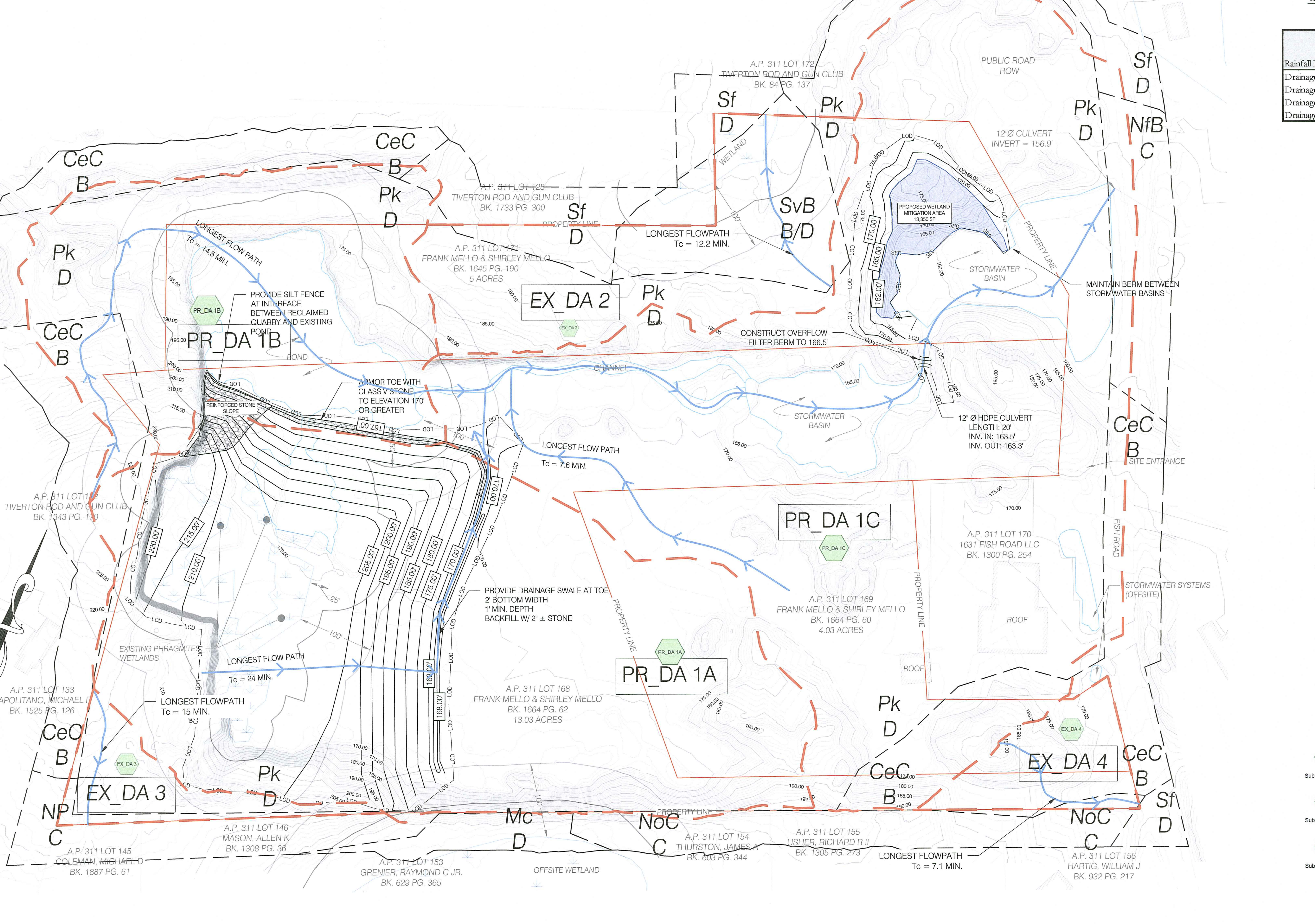
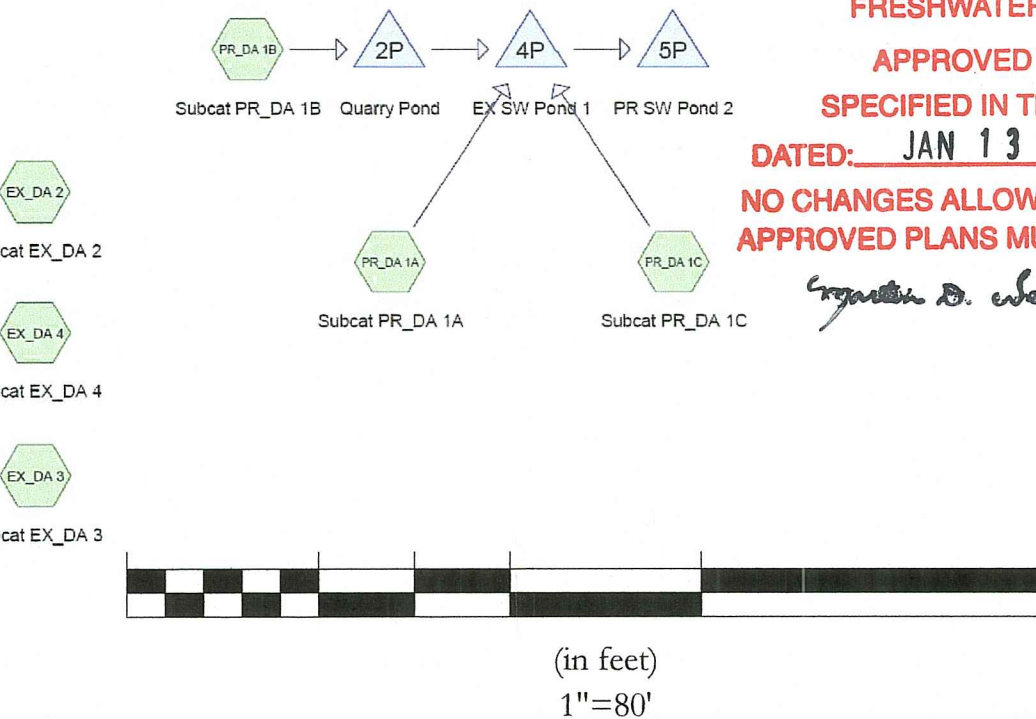
Summary for Subcatchment EX_DA 4: Subcat EX_DA 4

Runoff = 1.57 cfs @ 12.10 hrs, Volume= 0.124 af, Depth= 2.38"
 Routed to nonexistent node 2L

Runoff by SCS TR-20 method, UH=SCS, Weighted-CN, Time Span= 0.00-30.00 hrs, dt= 0.01 hrs
 Type III 24-hr 1-yr Rainfall=2.80"

Area (ac)	CN	Description
0.029	96	Gravel surface, HSG C
0.000	96	Gravel surface, HSG D
0.600	96	Gravel surface, HSG B
0.001	55	Woods, Good, HSG B
0.631	96	Weighted Average
0.631		100.00% Pervious Area

Tc	Length (min)	Slope (ft/ft)	Velocity (ft/sec)	Capacity (cfs)	Description
6.1	71	0.2200	0.19		Sheet Flow, Woods: Light underbrush n= 0.400 P2= 3.40"
0.5	53	0.1510	1.94		Shallow Concentrated Flow, Woodland Kv= 5.0 fps
0.5	106	0.0410	3.26		Shallow Concentrated Flow, Unpaved Kv= 16.1 fps
7.1	230	Total			



MCCUE ENVIRONMENTAL
 SAGE ENVIRONMENTAL

RMA GeoEnvironmental
 20 Main Street
 Wickford, Rhode Island 02852
 WWW.RMAHYDRO.COM

No.	Revision	Date	App.
2	UPDATE LOD PER RIDEM CORRESPONDENCE DATED 12/04/2024	1/27/2024	JER
1	UPDATE EX. WETLAND IN RESPONSE TO RIDEM COMMENTS DATED 10/29/2024	11/13/2024	JER

RIDEM FRESHWATER APPLICATION FOR SIGNIFICANT ALTERATION
 MELLO FAMILY REVOCABLE TRUST
 1635 FISH ROAD
 TIVERTON, RI 02878

Client/Owner: MELLO FAMILY REVOCABLE TRUST
 120 PARADISE AVENUE
 MIDDLETOWN, RI 02842

Issued for: REGULATORY REVIEW & PERMITTING

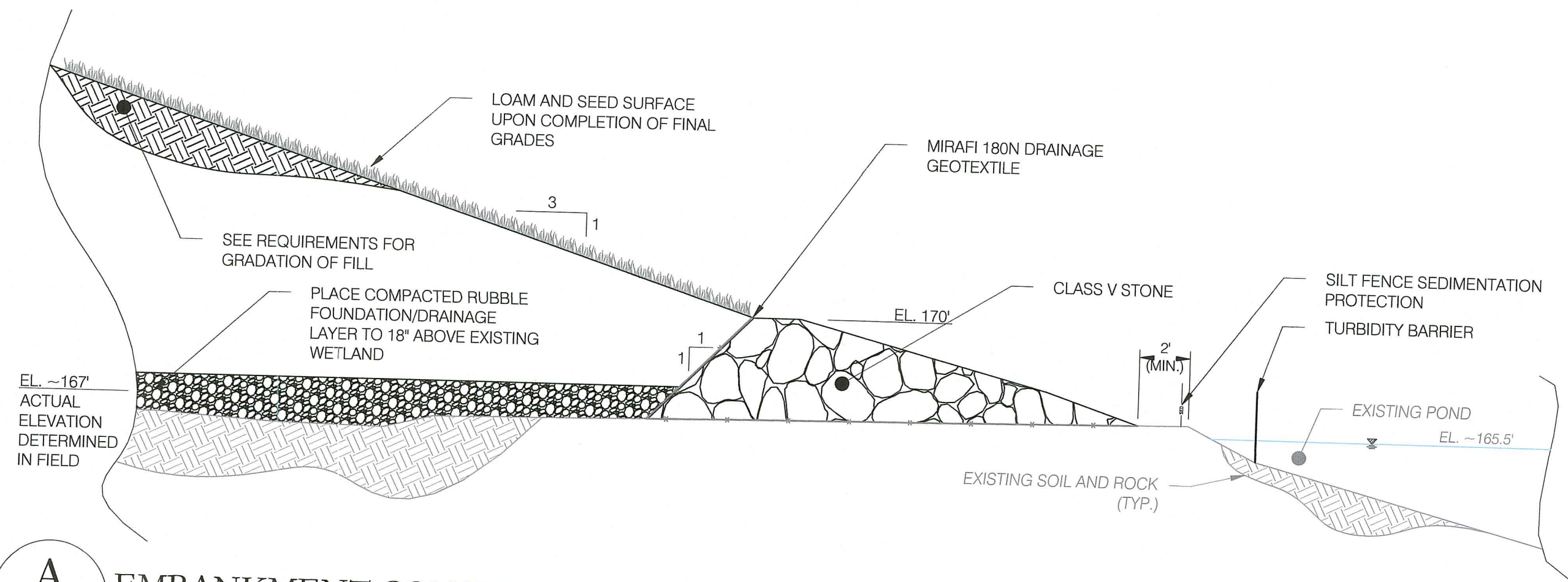
RI DEPARTMENT OF ENVIRONMENTAL MANAGEMENT
 OFFICE OF WATER RESOURCES
 FRESHWATER WETLANDS PROGRAM
 APPROVED WITH CONDITIONS AS SPECIFIED IN THE LETTER OF APPROVAL
 DATED: JAN 13 2026 FILE #: 23-0268
 NO CHANGES ALLOWED WITHOUT PRIOR APPROVAL
 APPROVED PLANS MUST BE AT CONSTRUCTION SITE

PROPOSED DRAINAGE CONDITIONS
 1635 FISH ROAD
 TIVERTON, RI 02878

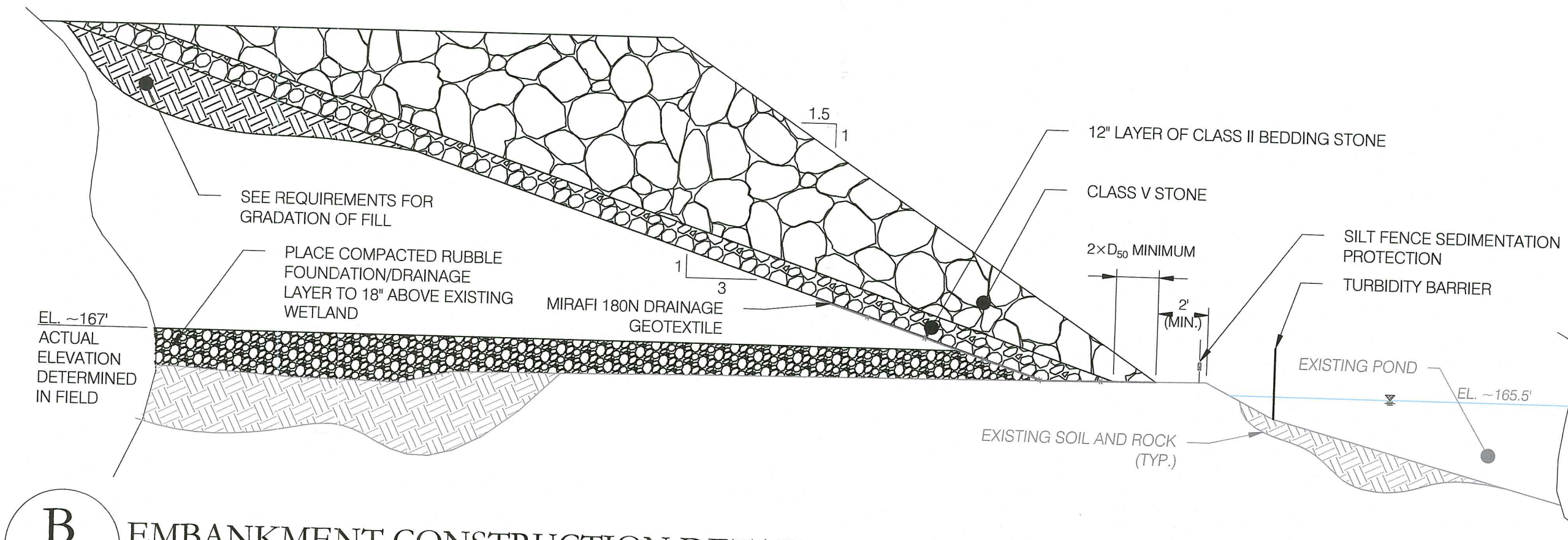
FEB 13 2025
 Office of Water Resources

JOSHUA E. ROSEMBERG
 REGISTERED PROFESSIONAL ENGINEER
 CIVIL

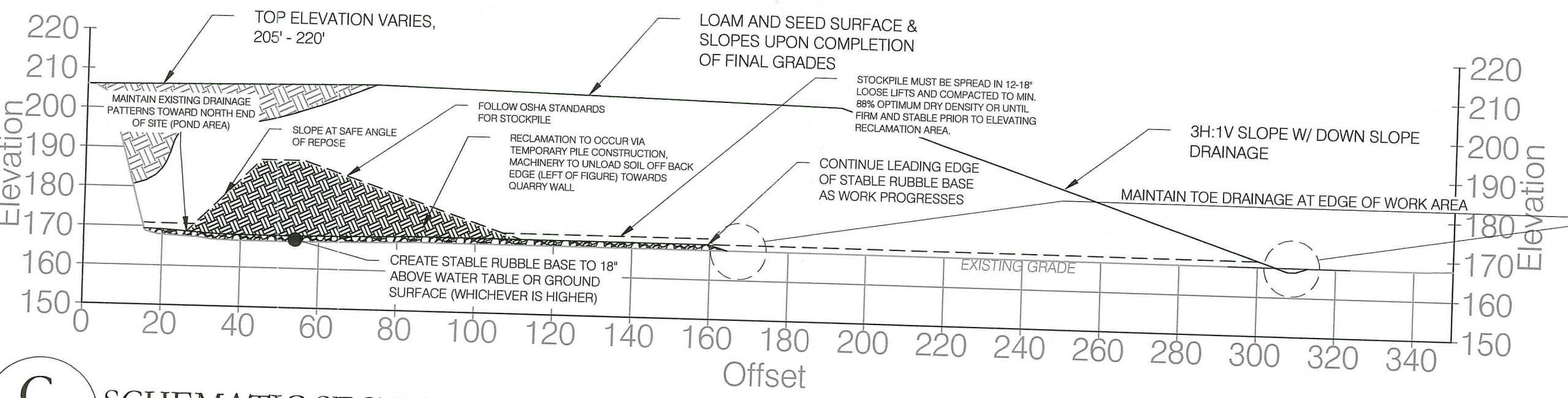
Drawing Number: D-2
 Sheet: 4 of 6
 Project Number: 23210.00
 Survey Index: -



A EMBANKMENT CONSTRUCTION DETAIL -
PR-1 REINFORCED TOE
SCALE: 1" = 10'



B EMBANKMENT CONSTRUCTION DETAIL -
PR-1 REINFORCED SHOULDER
SCALE: 1" = 10'



C SCHEMATIC SECTION - TYPICAL FILL AREA
PR-1 SCALE: 1" = 30'

CONSTRUCTION IN SATURATED AREAS NOTES

1. THE CLIENT IS RESPONSIBLE FOR CONSTRUCTION OF A STABLE BASE WHEN WORKING IN AREAS HISTORICALLY BELOW WATER.
2. STABLE RUBBLE AND BOULDERS SHALL BE USED WHILE FILLING BELOW WATER.
3. A LICENSED PROFESSIONAL ENGINEER QUALIFIED IN GEOTECHNICAL AND SOIL STABILITY ENGINEERING SHALL BE ON SITE TO OBSERVE CONSTRUCTION BELOW WATER AND VERIFY A STABLE BASE IS ACHIEVED.

GRADING AND DRAINAGE NOTES

1. DURING RECLAMATION ACTIVITIES, THE OWNER SHALL BE RESPONSIBLE FOR MAINTAINING DRAINAGE OF GROUNDWATER SEEPAGE AND RAINFALL RUNOFF TOWARDS THE NORTHERN SIDE OF THE QUARRY (EXISTING POND AREA) AND ULTIMATELY TO THE SITE STORMWATER SYSTEMS.
2. BARREN SLOPES SHALL NOT BE LEFT EXPOSED FOR EXCESSIVE PERIODS OF INACTIVE TIME.
3. TEMPORARY TREATMENTS SHALL CONSIST OF STRAW, FIBER MULCH OR PROTECTIVE COVERS SUCH AS A MAT OR FIBER LINING.
4. TOPSOIL OF THE RECLAMATION AREA SHALL CONSIST OF A SANDY LOAM AND BE FREE OF SUBSOIL, STONES, ROOTS, TREE LIMBS, URBAN OR CONSTRUCTION DEBRIS, AND SHALL CONFORM TO RHODE ISLAND STANDARD SPECIFICATION M.18.02.
5. BARREN AREAS SHALL BE SEEDED AND STABILIZED WITHIN 25 DAYS OF FINAL GRADE COMPLETION.

MATERIAL SPECIFICATIONS AND REQUIREMENTS

1. RECLAMATION MATERIAL:
PRIOR TO PLACEMENT OF RECLAMATION MATERIAL AND STOCKPILES OWNER SHALL STRIP AND REMOVE WETLAND VEGETATION (TOPSOIL/ORGANICS/LOAM, EXCESSIVE ROOT MATERIAL) TO THE EXTENT PRACTICAL AND INSTALL A RUBBLE FOUNDATION AND DRAINAGE LAYER TO 1.5 FEET ABOVE THE WATER SURFACE/WETLAND ELEVATION.
1.1. RUBBLE FOUNDATION / DRAINAGE LAYER:
SHALL BE SUITABLY PROPORTIONED AND PROCESSED TO PRODUCE A MIXTURE OF GRANULAR PARTICLES MEETING THE GRADATION REQUIREMENTS SPECIFIED BELOW AND SHALL NOT CONTAIN MORE THAN 10% BRICK FRAGMENTS OR MORE THAN 30% CONCRETE FRAGMENTS. THE SOIL MAY CONTAIN UP TO 10% RECLAIMED/REPROCESSED ASPHALT IF THE PERCENTAGE OF SOIL PASSING THE #200 SIEVE IS REDUCED TO 5%.

Rubble Foundation / Drainage Layer	
Sieve Size	Percent Passing
8 in.	100
3 in.	50-100
1/2 in.	15-40
No. 200	0-10

Reclamation Fill (Non Engineered)	
Sieve Size	% Passing
6"	100
No. 10	30 - 95
No. 40	10 - 70
No. 200	5 - 35

MATERIALS NOT ALLOWED FOR RECLAMATION SHALL INCLUDE BUT ARE NOT LIMITED TO: RUBBER, GLASS, PLASTIC, WOOD, REINFORCING STEEL OR OTHER METALLIC MATERIALS; BUILDING MATERIALS WHICH MAY BE SOURCES OF LEAD OR ASBESTOS; COMPONENTS OF SEPTIC, LEACHING BED, AND SANITARY SEWER SYSTEMS INCLUDING SOILS, PIPES, AND STRUCTURAL CONCRETE; SOILS OR OTHER MATERIALS CONTAMINATED BY SYNTHETIC ORGANIC OR INORGANIC COMPOUNDS, METALS, OR PETROLEUM HYDROCARBON PRODUCTS. PROCESSING SHALL CRUSH OR PULVERIZE AND BREAK DOWN ASPHALT CONCRETE CONGL. OPERATIONS SUCH THAT ONLY BITUMINOUS COATINGS REMAIN ON AGGREGATES.

- 1.3. PLACEMENT:
OF SLOPE FOUNDATION LAYERS TO 1.5 FEET ABOVE WATER LEVELS AND INTERMEDIATE LIFTS OF RECLAMATION FILL SHALL REQUIRE SUPERVISION FROM A PROFESSIONAL GEOTECHNICAL ENGINEER. A PROFESSIONAL GEOTECHNICAL ENGINEER SHALL RE-EVALUATE RECLAMATION MATERIAL PLACEMENT AND SLOPE STABILITY ONCE A HEIGHT OF 20 FEET IS ACHIEVED IN THE RECLAMATION AREA. OWNER SHALL MAINTAIN RECORDS OF MATERIAL PLACED FOR RECLAMATION FILL LIFTS FOR REVIEW.

Overflow / Filter Berm Stone Size (in.)	Maximum % of Total Weight Smaller than Given Size
9	100
7.5	85
6	50
4	15

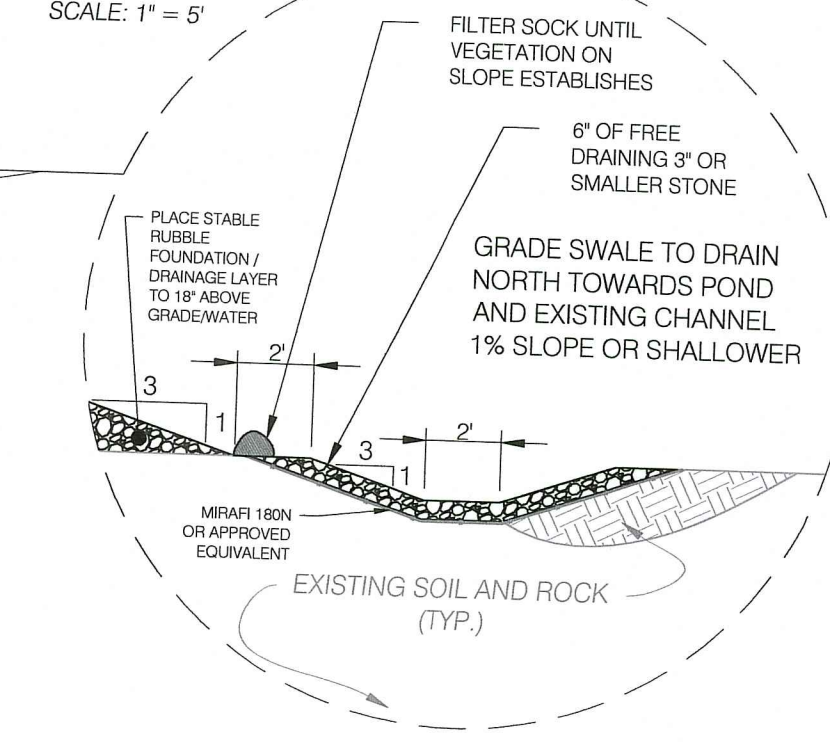
2. STONE OVERFLOW / FILTER BERM:
FILL VOIDS WITH 1.5" (MINUS) CRUSHED STONE
3. REINFORCED SHOULDER SLOPE AND TOE TO CONSIST OF CLASS V RIPRAP
4. BEDDING STONE TO CONSIST OF CLASS II RIPRAP

Table 4.1. Minimum and Maximum Allowable Particle Size in Inches.

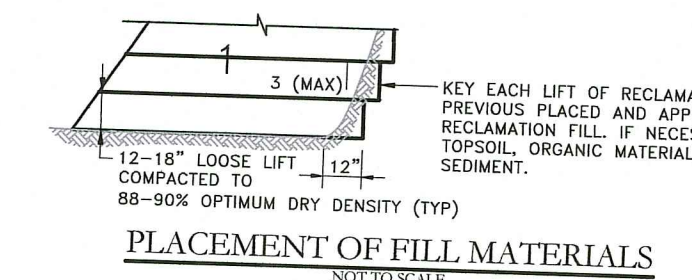
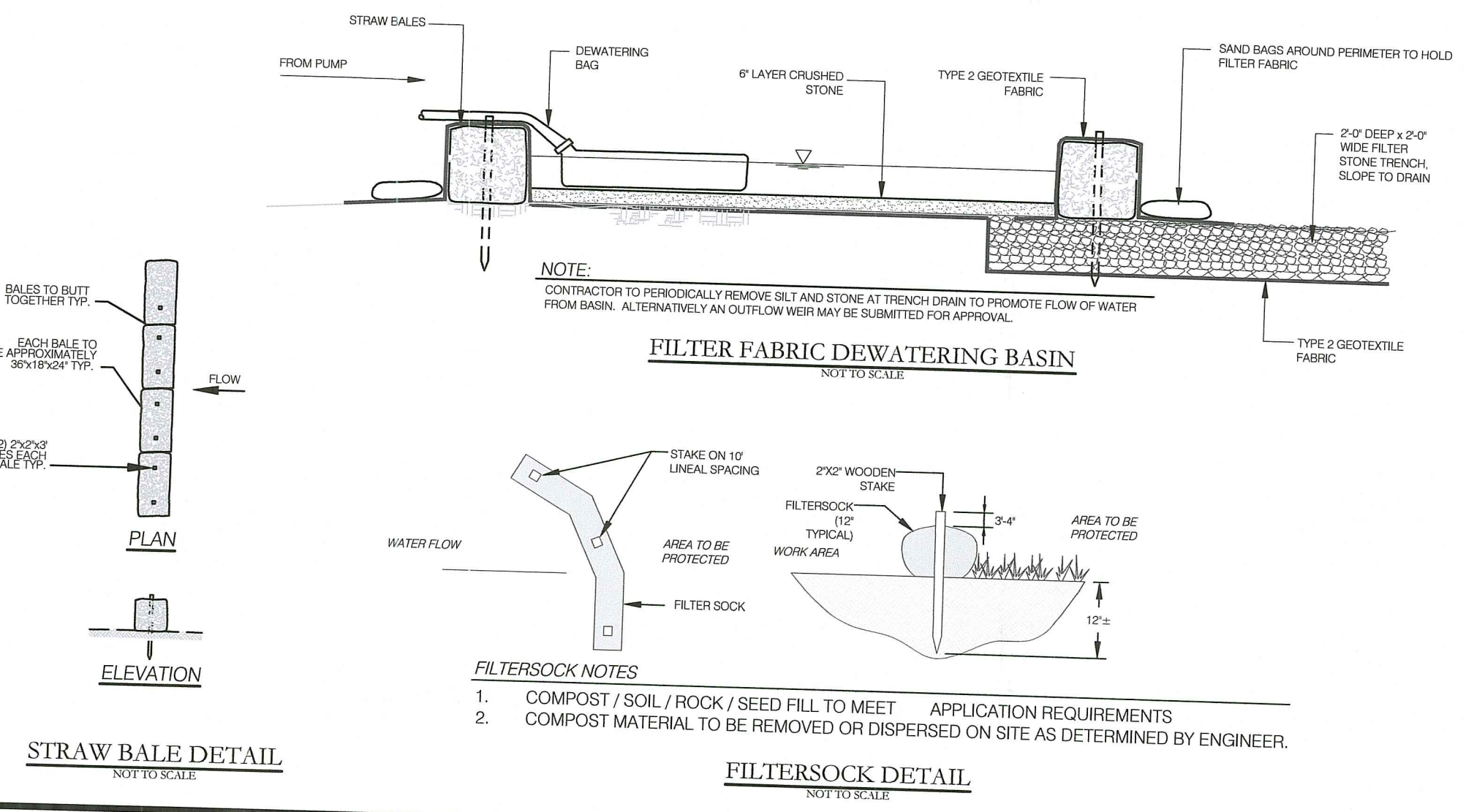
Nominal Riprap Class by Median Particle Diameter	Class	Size	d ₁₅		d ₅₀		d ₈₅		d ₁₀₀	
			Min	Max	Min	Max	Min	Max	Min	Max
I	6 in	3.7	5.2	5.7	6.9	7.8	9.2	12.0		
II	9 in	5.5	7.8	8.5	10.5	11.5	14.0	18.0		
III	12 in	7.3	10.5	11.5	14.0	15.5	18.5	24.0		
IV	15 in	9.2	13.0	14.5	17.5	19.5	23.0	30.0		
V	18 in	11.0	15.5	17.0	20.5	23.5	27.5	36.0		
VI	21 in	13.0	18.5	20.0	24.0	27.5	32.5	42.0		
VII	24 in	14.5	21.0	23.0	27.5	31.0	37.0	48.0		
VIII	30 in	18.5	26.0	28.5	34.5	39.0	46.0	60.0		
IX	36 in	22.0	31.5	34.0	41.5	47.0	55.5	72.0		
X	42 in	25.5	36.5	40.0	48.5	54.5	64.5	84.0		

Note: Particle size d corresponds to the intermediate ("B") axis of the particle.

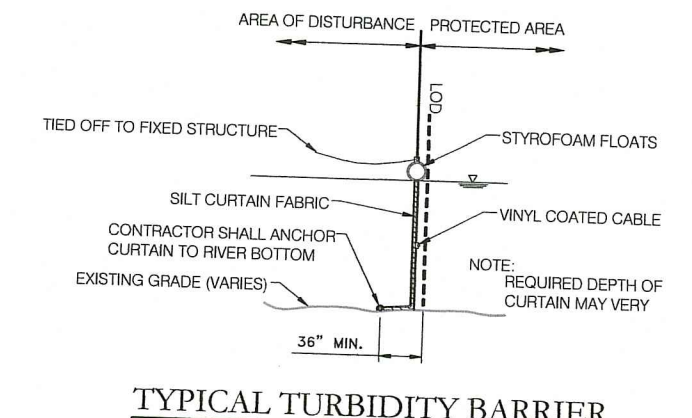
DRAINAGE AT EMBANKMENT TOE DETAIL



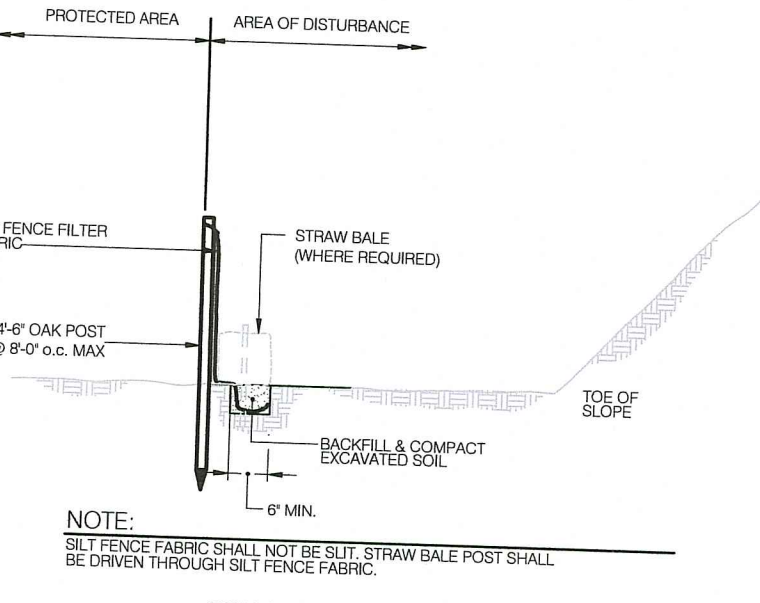
SCALE: 1" = 5'



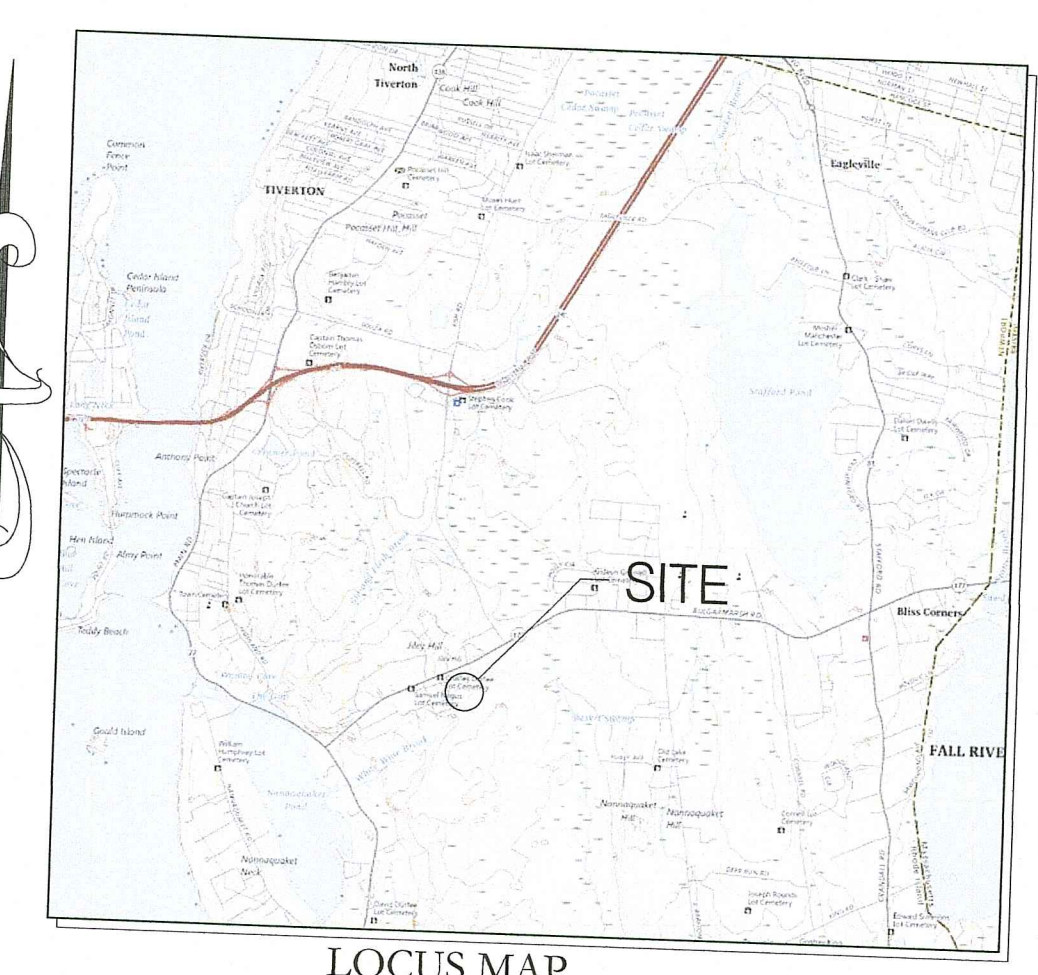
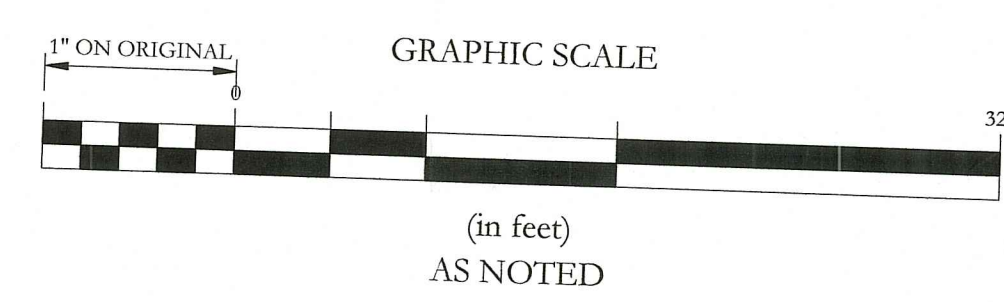
PLACEMENT OF FILL MATERIALS
NOT TO SCALE



TYPICAL TURBIDITY BARRIER
NOT TO SCALE



SILT FENCE DETAIL
NOT TO SCALE

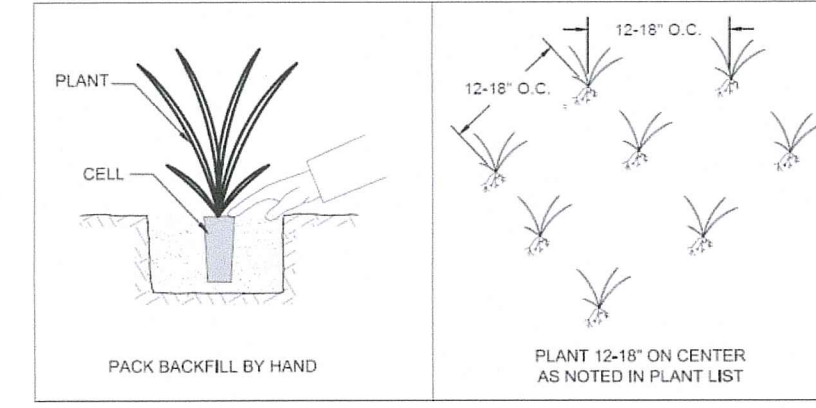
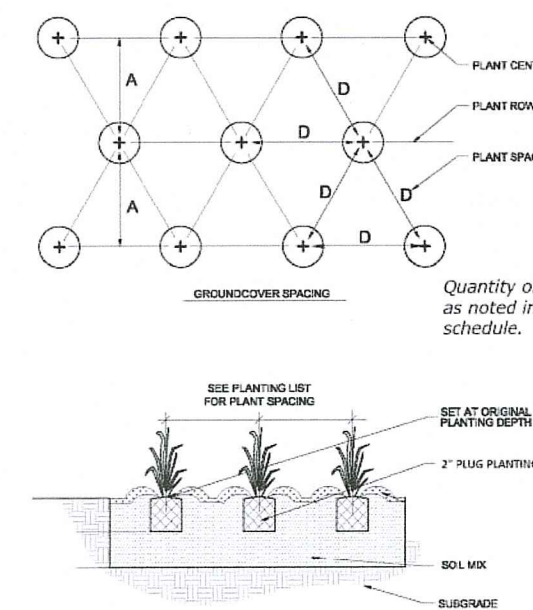
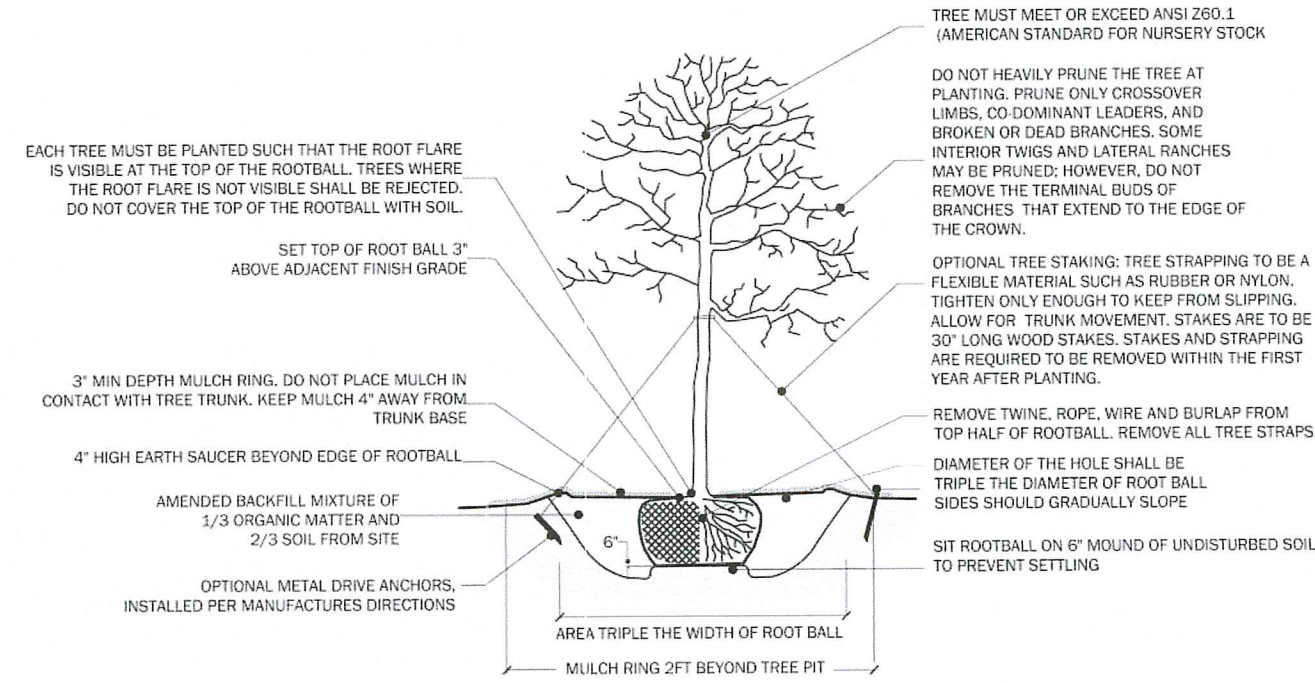


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1. UPDATE EX. WETLAND IN RESPONSE TO RIDEM COMMENTS DATED 10/20/2024			11/13/2024	JER	
Designated By:	ETS	Drawn by:	ETS	Checked by:	JER
Scale:	AS NOTED	Date:	DECEMBER 2023		
Project Title: RIDEM FRESHWATER APPLICATION FOR SIGNIFICANT ALTERATION MELLO FAMILY REVOCABLE TRUST 1635 FISH ROAD TIVERTON, RI 02878					
Client/Owner: MELLO FAMILY REVOCABLE TRUST 120 PARADISE AVENUE MIDDLETOWN, RI 02842					
Issued for: REGULATORY REVIEW & PERMITTING					
<p>RI DEPARTMENT OF ENVIRONMENTAL MANAGEMENT OFFICE OF WATER RESOURCES FRESHWATER WETLANDS PROGRAM APPROVED WITH CONDITIONS AS SPECIFIED IN THE LETTER OF APPROVAL DATED: JAN 13 2026 FILE #: 23-0268 NO CHANGES ALLOWED WITHOUT PRIOR APPROVAL APPROVED PLANS MUST BE AT CONSTRUCTION SITE</p> <p><i>Signature: D. Wenzel</i></p>					
		Drawing Number: S-1 Sheet 5 of 6 Project Number: 23210.00 Survey Index:			

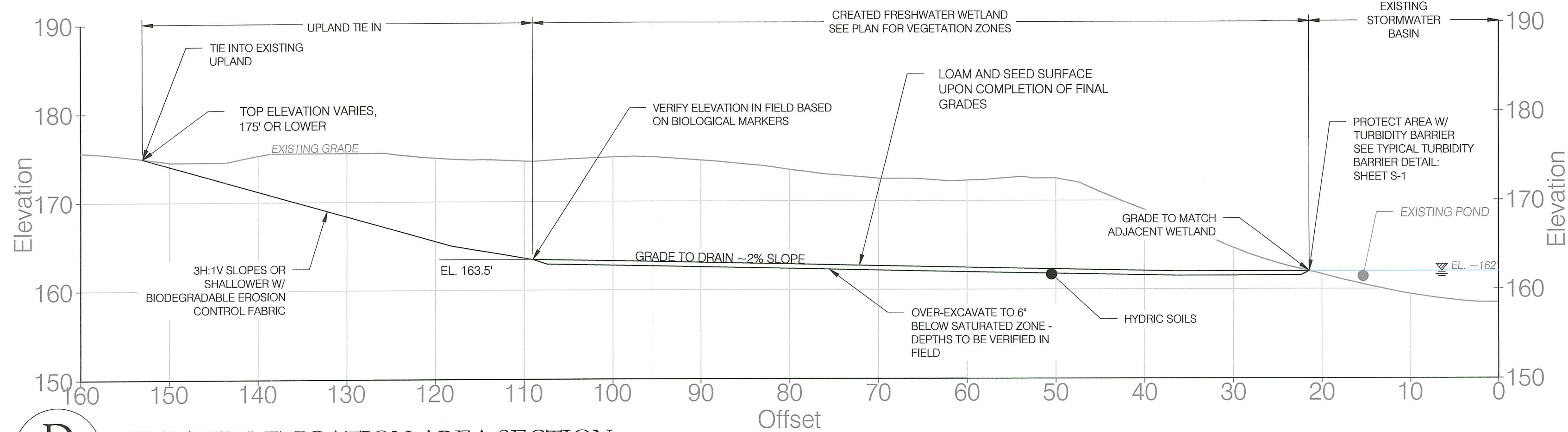
FRESHWATER WETLAND CREATION/RESTORATION SEQUENCE NOTES

- PRIOR TO CONSTRUCTION, A LINE OF SOIL EROSION AND SEDIMENTATION CONTROLS (SESC) (E.G. SILT FENCE, STAKED HAYBALES, FILTER/SILT SOCKS) WILL BE INSTALLED AROUND THE LIMIT OF THE WETLAND CREATION AREA AND AT THE EDGE OF THE EXISTING WET EDGE, IN ACCORDANCE WITH THE SITE PLAN. REMOVAL OF EXISTING TREES AND VEGETATION WILL COMMENCE FOR PREPARATION OF THE SITE WITH ONGOING INSPECTIONS TO ENSURE PROTECTION OF THE ADJACENT WET AREA.
- CONSTRUCTION OF THE CREATION WETLAND WILL COMMENCE AND THE GRADES WILL BE EXCAVATED TO A DEPTH OF 6" BELOW THE FINAL GRADES TO ACCOUNT FOR ADDING HIGHLY ORGANIC TOPSOIL. THE PRE-FINAL GRADES WILL BE CONFIRMED THROUGH SURVEY METHODS AND THE FINAL GRADES WILL BE RESTORED BY ADDING 6" OF ORGANIC HIGHLY PLANTABLE SOIL, FREE OF INVASIVE SPECIES. THE CREATION AREA WILL MATCH THE GRADES OF THE ADJACENT WET AREA, AS DESIGNED ON THE APPROVED SITE PLANS. A 3:1 SLOPE WILL BE CONSTRUCTED LANDWARD OF THE FINAL WETLAND EDGES.
- WORK PERFORMED IN 1 & 2 ABOVE WILL BE SUBJECT TO SUPERVISION FROM EITHER A QUALIFIED WETLAND BIOLOGIST OR RIDEM STAFF.
- FOLLOWING THE COMPLETION OF WORK DESCRIBED IN ITEMS 1 - 3 ABOVE, THE WETLAND WILL BE PLANTED WITH TREES AND SHRUBS AS SPECIFIED ON THE APPROVED SITE PLANS. SPECIFIC PLANT ZONES WILL BE PLANTED WITH THE NOTED SPECIES, SPACINGS AND HEIGHTS. THESE INCLUDE 25 PUSSY WILLOW (*Salix discolor*), 22 YELLOW BIRCH (*Betula allegheniensis*), 55 SWEET PEPPERBUSH (*Clethra alnifolia*) AND 46 HIGHBUSH BLUEBERRY (*Vaccinium corymbosum*).
- FOLLOWING THE COMPLETION OF WORK DESCRIBED IN 1 - 4 ABOVE, ALL CREATED WETLAND SURFACES WILL BE SEED WITH A PROPER WETLAND SEED MIXTURE. ALL CREATED UPLAND SLOPES WILL BE SEED WITH A WILDLIFE CONSERVATION GRASS SEED MIXTURE.
- ALL REQUIRED SITE WORK IN THE CREATED WETLAND WILL BE PERFORMED DURING THE LOW FLOW PERIOD OF JULY 1 - OCTOBER 31, UNLESS APPROVED OTHERWISE BY RIDEM.
- IF ANY PLANTINGS FAIL TO SURVIVE AT LEAST ONE (1) YEAR FROM THE TIME THEY HAVE BEEN PLANTED, THOSE PLANTS WILL BE REPLACED.
- UPON STABILIZATION OF ALL DISTURBED SOIL AREAS, ALL NON-BIODEGRADABLE EROSION AND SEDIMENT CONTROLS MUST BE REMOVED FROM THE WORK AREA. PRIOR TO THE REMOVAL OF THE CONTROLS, ANY ACCUMULATED SEDIMENT MUST BE REMOVED TO A SUITABLE AREA OUTSIDE OF RIDEM JURISDICTION.
- THE CREATED WETLAND WILL BE ALLOWED TO REVERT TO A NATURAL WILD CONDITION. NO FUTURE CLEARING, MOWING, CUTTING, TRIMMING OR OTHER ALTERATIONS OR IMPROVEMENTS CAN OCCUR IN THE CREATED WETLAND AREA WITHOUT FIRST OBTAINING A VALID PERMIT FROM RIDEM. TREES WILL BE PLANTED APPROXIMATELY 12' ON CENTER WITHIN EACH ZONE, APPROXIMATELY 5 - 6' HIGH AFTER PLANTING. SHRUBS WILL BE PLANTED APPROXIMATELY 8' ON CENTER WITHIN EACH ZONE, APPROXIMATELY 3-4' HIGH AFTER PLANTING. A TOTAL OF 42 TREES AND 101 SHRUBS ARE PROPOSED TO BE PLANTED.

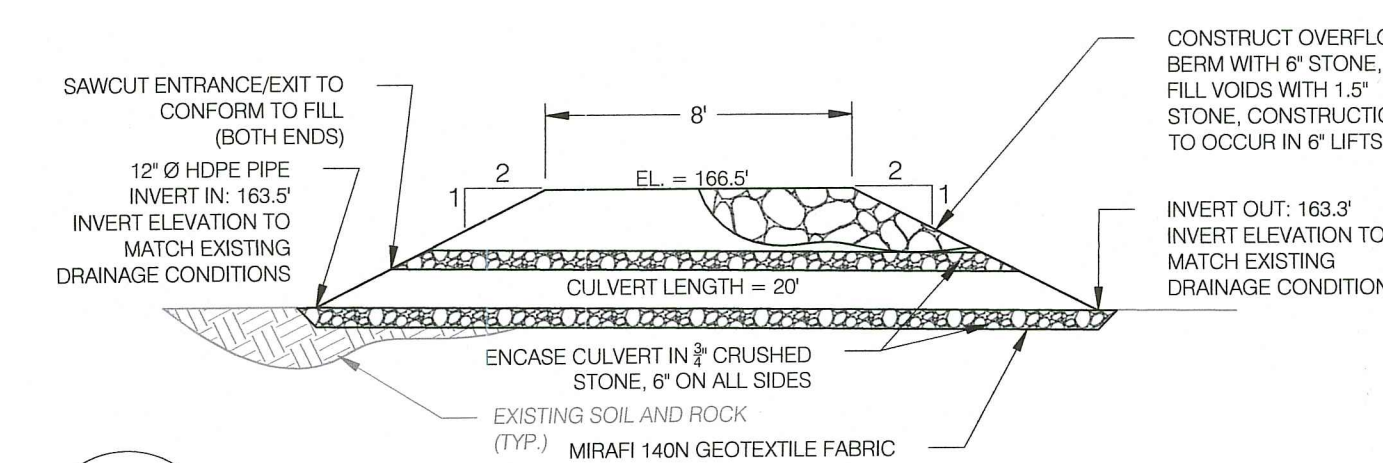


SECTION: TREE PLANTING DETAIL
CROSS SECTION

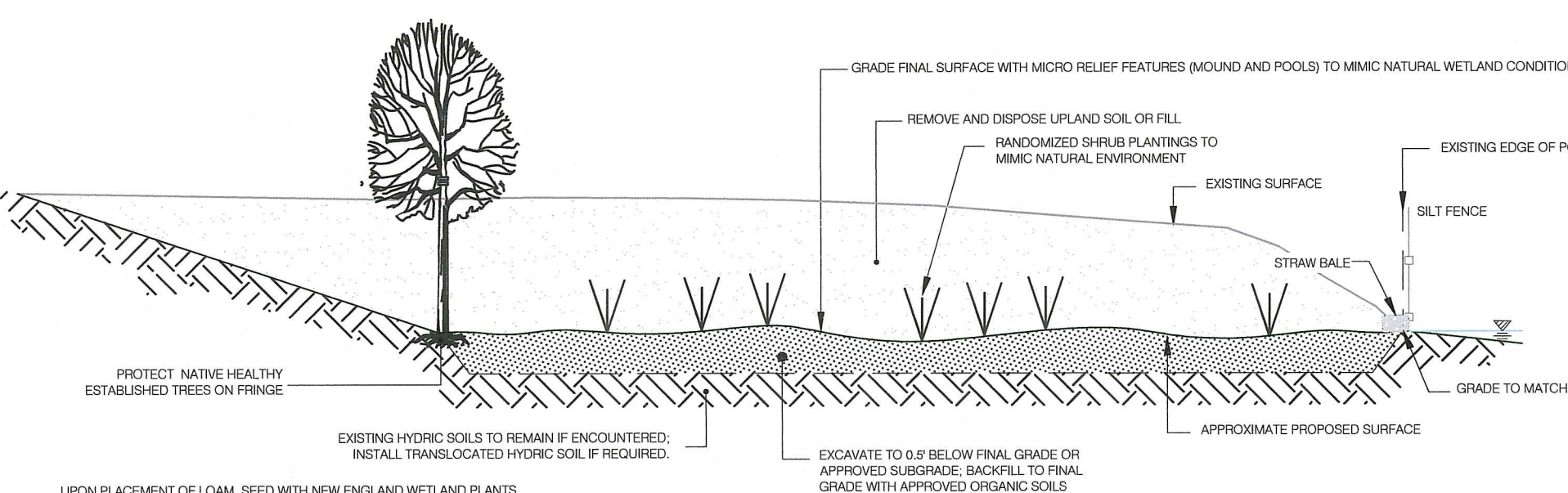
SECTION: SHRUB PLANTING DETAIL
N.T.S.



D WETLAND MITIGATION AREA SECTION
PR-1 SCALE: 1" = 10'



E STORMWATER BASIN CULVERT DETAIL
PR-1 SCALE: 1" = 10'

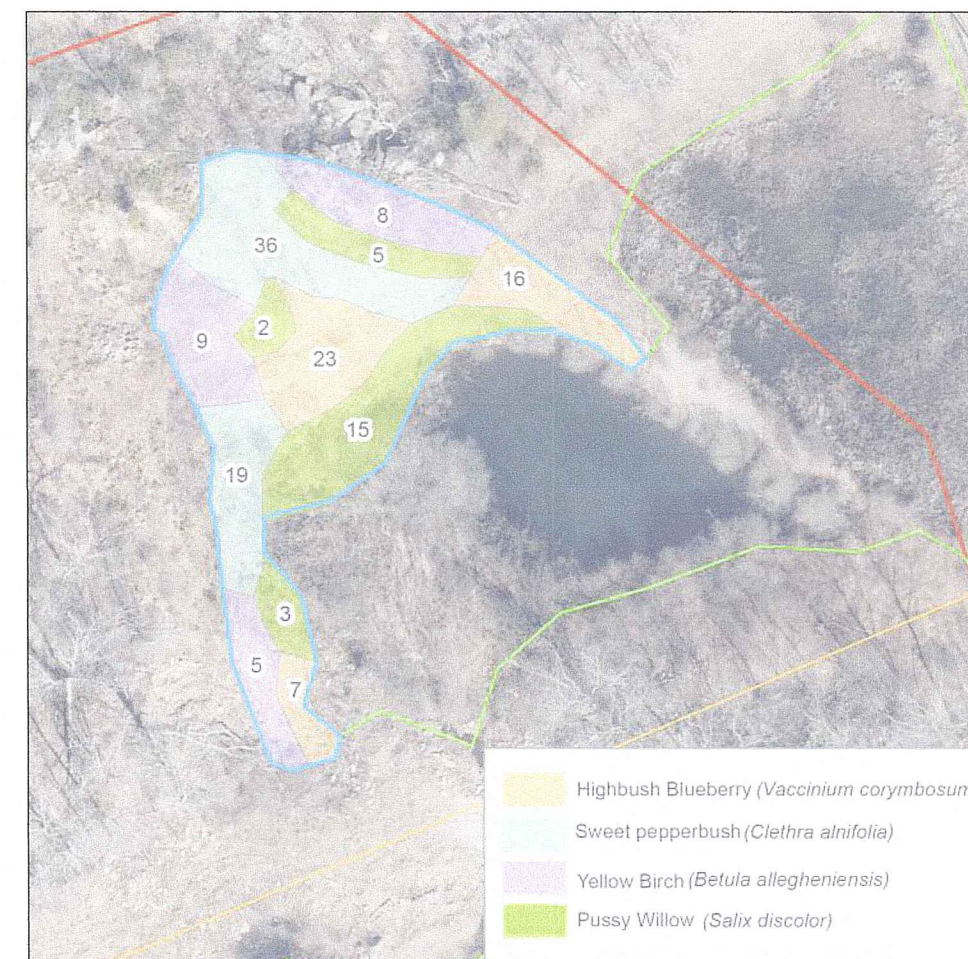


SCHEMATIC MITIGATION AREA
SCALE: NTS

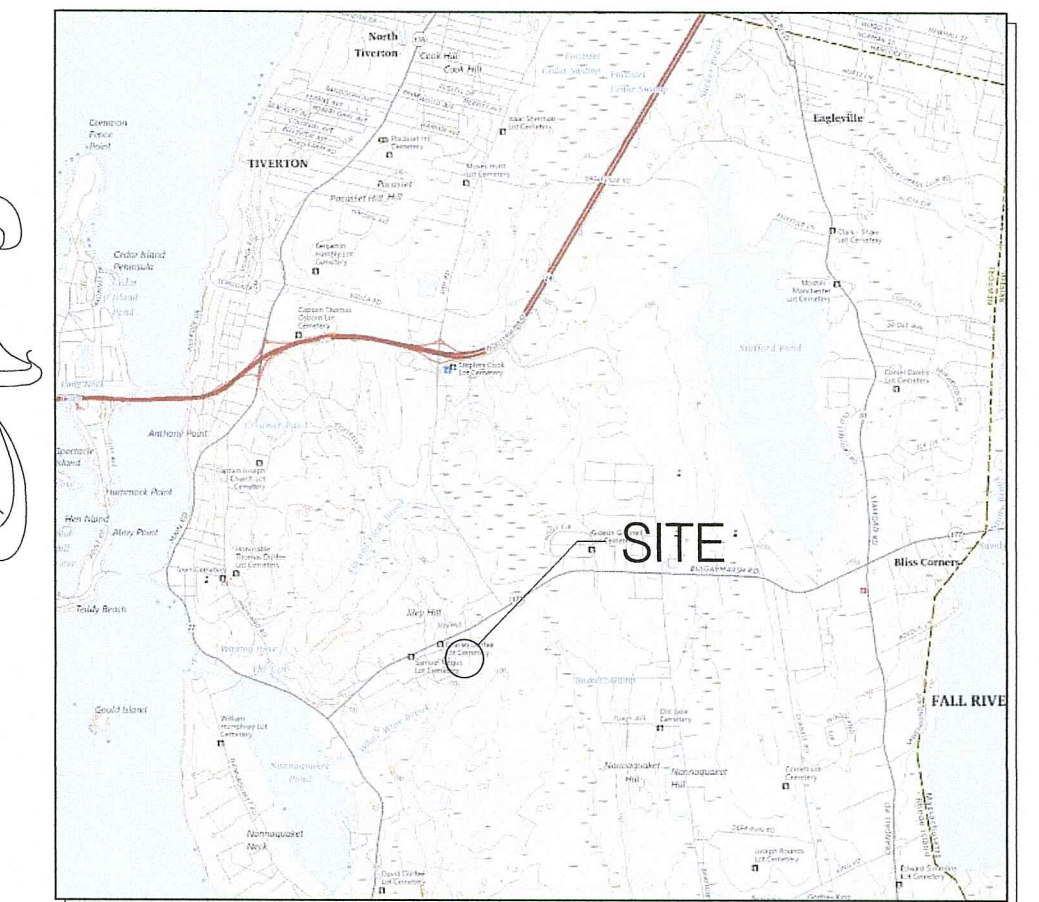
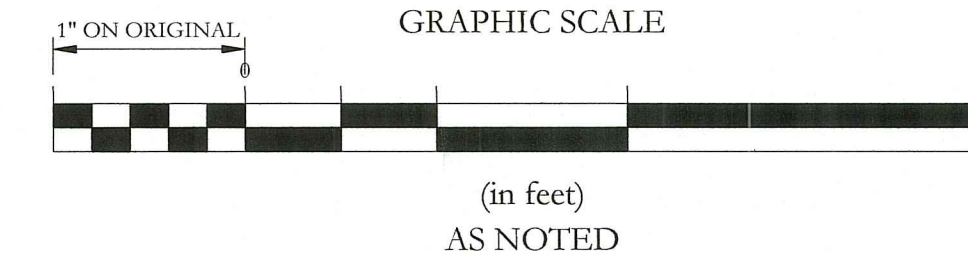
PROPOSED HYDROGEOLOGY

BASED ON A REVIEW OF THE EXISTING HYDROGEOLOGY, PROPOSED CONDITIONS ARE NOT ANTICIPATED TO SUBSTANTIALLY ALTER GROUNDWATER FLOW. SOME MINOR LOCAL VARIATION MAY OCCUR IN THE IMMEDIATE AREA OF THE RECLAMATION SITE BUT DIRECTION WILL ULTIMATELY BE CONTROLLED BY THE UNCHANGED UNDERLYING BEDROCK TOPOGRAPHY, AND ESSENTIALLY NEGLIGIBLE CHANGES IN THE SURROUNDING UPLAND AND OPEN WATER SOURCES TO THE NORTH. GROUNDWATER THAT MAY DAYLIGHT AT THE TOE OF THE RECLAIMED AREA WILL BE CONVEYED VIA A SWALE TO THE OPEN WATER SOURCES ALONG THE NORTH END OF PROPERTY AND IS CONSISTENT WITH ONGOING SITE WATER MANAGEMENT.

PROPOSED HYDROGEOLOGIC MAP



WETLAND MITIGATION AREA PLANTING SCHEDULE
NOT TO SCALE



LOCUS MAP
NOT TO SCALE



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2	UPDATE LOD PER RIDEM CORRESPONDENCE DATED 10/24/2024	1/27/2024	JER
1	UPDATE EX WETLAND IN RESPONSE TO RIDEM COMMENTS DATED 10/22/2024	11/13/2024	JER
No.	Revision	Date	App.
Designed by:	ETS	Drawn by:	ETS
Checked by:	JER	Date:	DECEMBER 2023

RIDEM FRESHWATER APPLICATION FOR SIGNIFICANT ALTERATION
MELLO FAMILY REVOCABLE TRUST
1635 FISH ROAD
TIVERTON, RI 02878

Client/Owner: MELLO FAMILY REVOCABLE TRUST
120 PARADISE AVENUE
MIDDLETOWN, RI 02842

RI DEPARTMENT OF ENVIRONMENTAL MANAGEMENT
OFFICE OF WATER RESOURCES
FRESHWATER WETLANDS PROGRAM
APPROVED WITH CONDITIONS AS SPECIFIED IN THE LETTER OF APPROVAL
DATED: JAN 13 2025 FILE # 23-0268
NO CHANGES ALLOWED WITHOUT PRIOR APPROVAL
APPROVED PLANS MUST BE AT CONSTRUCTION SITE
Stephen D. Wonsick

REGULATORY REVIEW & PERMITTING
Drawing Title:

WETLAND MITIGATION AND DRAINAGE
PROPOSED SECTIONS & DETAILS
1635 FISH ROAD
TIVERTON, RI 02878
FEB 13 2025
Office of Water Resources

Drawing Number: S-2
Sheet: 6 of 6
Project Number: 23210.00
Survey Index: -

JOSHUA E. ROSEMBERG
REGISTERED PROFESSIONAL ENGINEER
CIVIL