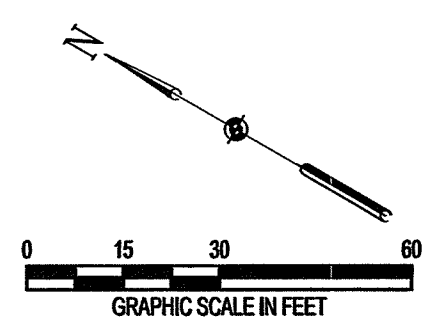
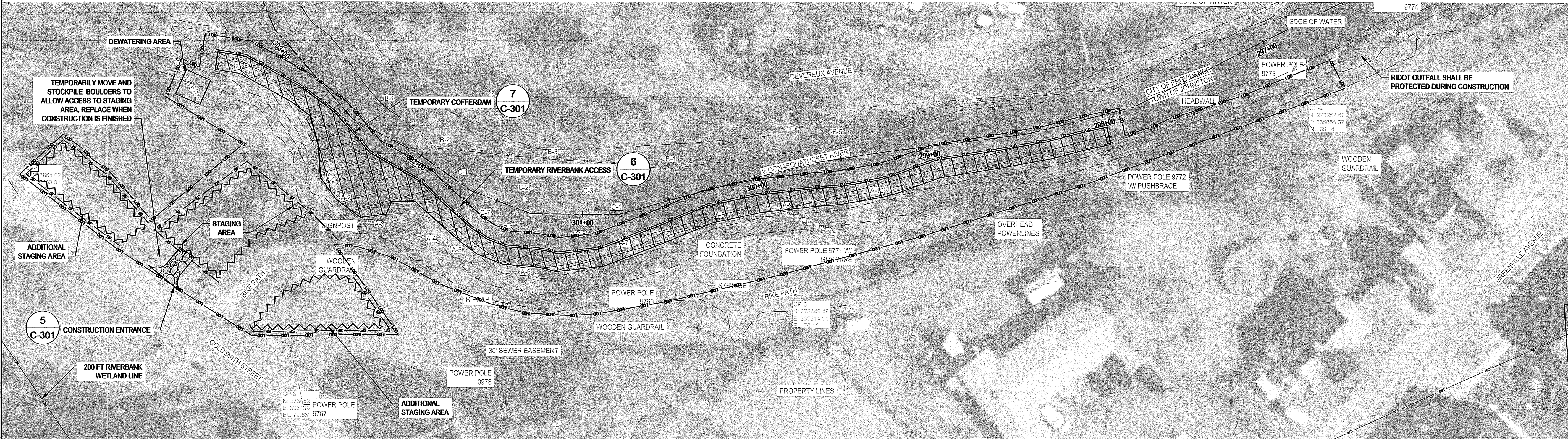


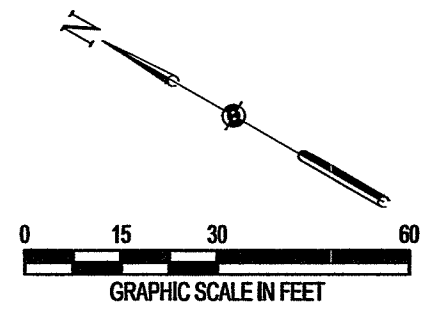
PHASE 1 PLAN



- NOTES:**
- LIMIT OF DISTURBANCE BOUNDARY HAS BEEN REVISED AND APPLIES TO ALL SHEETS FOR DESIGN DATED DECEMBER 2022.
- PHASE 1:**
- PREPARE REQUIRED PLANS AND SUBMITALS FOR APPROVAL.
 - COMPLETE CONSTRUCTION STAKING.
 - WALK SITE WITH OWNER AND ENGINEER AND REVIEW TREE AND VEGETATION REMOVAL.
 - LOCATE UTILITIES.
 - INSTALL TEMPORARY FACILITIES AND EROSION CONTROLS, INCLUDING CONSTRUCTION ENTRANCE.
 - INSTALL TEMPORARY TURBIDITY CURTAIN.
 - INSTALL PORTION OF TEMPORARY RIVERBANK ACCESS NECESSARY TO FACILITATE INSTALLATION OF TEMPORARY COFFERDAM.



PHASE 2 PLAN



- PHASE 2:**
- INSTALL TEMPORARY COFFERDAM AND ANY NECESSARY DEWATERING AREA(S).
 - REMOVE TEMPORARY TURBIDITY CURTAIN.
 - FINISH INSTALLATION OF TEMPORARY RIVERBANK ACCESS.
 - INSTALL RIPRAP ARMORED TOE, RIPRAP ARMORED SLOPE, AND OTHER SITE ELEMENTS AS SHOWN IN PLANS AND DESCRIBED BY THE SPECIFICATION. SCHEDULE CLEARING OF VEGETATION TO PREVENT EROSION DURING CONSTRUCTION.
 - REMOVE TEMPORARY RIVERBANK ACCESS, TEMPORARY COFFERDAM, AND DEWATERING FACILITIES.
 - COMPLETE SITE RESTORATION.
 - DEMOLISH.
 - SUBMIT AS-BUILT DRAWINGS.

REVISIONS	DESCRIPTION	DATE	BY
1	LOD REVISION, LOCATION OF COFFERDAM	APR 2024	MS

RI DEPARTMENT OF ENVIRONMENTAL MANAGEMENT
OFFICE OF WATER RESOURCES
FRESHWATER WETLANDS PROGRAM
APPROVED WITH CONDITIONS AS SPECIFIED IN THE LETTER OF APPROVAL DATED: **MAY 16 2024** FILE #: **21-0212**
NO CHANGES ALLOWED WITHOUT PRIOR APPROVAL APPROVED PLANS MUST BE AT CONSTRUCTION SITE
Logan D. Wenzel

PERSON INFORMATION
DESIGNED BY: JS
DRAWN BY: DCK/PA
CHECKED BY: LLR
PROJECT MANAGER: AH

AMY E. HUNT
No. 9256
REGISTERED PROFESSIONAL ENGINEER
CIVIL

RDH ISLAND ASSOCIATION OF CONSERVATION DISTRICTS
WOONASQUATUCKET RIVERBANK RESTORATION
JOHNSTON, RHODE ISLAND

JOHNSTON, RHODE ISLAND
SITE ACCESS AND EROSION AND SEDIMENT CONTROL

RI Environmental Management
APR 09 2024
Office of Water Resources

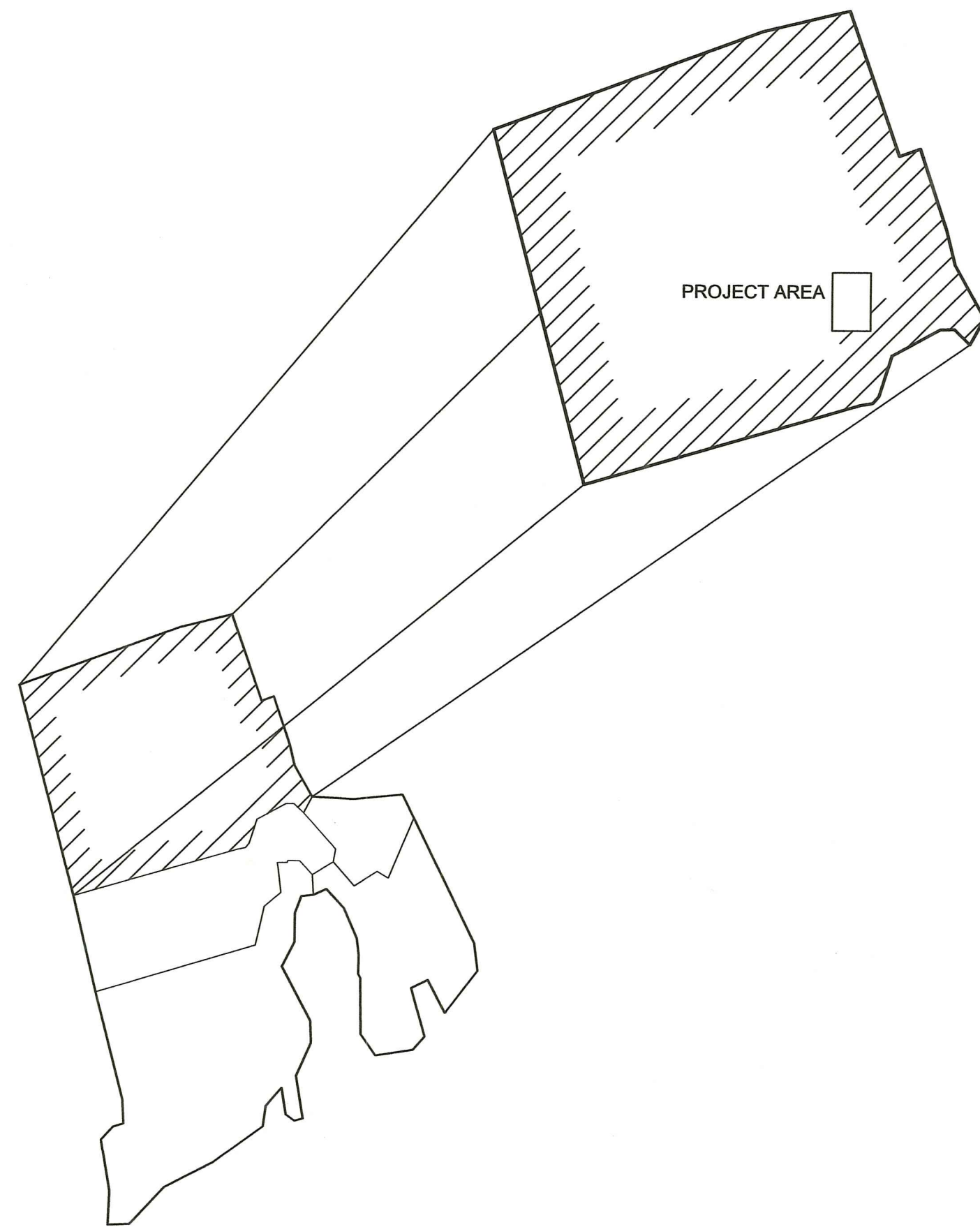
EA
EA Engineering, Science, and Technology, Inc., PBC
301 Metro Center Blvd, Suite 102
Warwick, RI 02886
(401) 736-3440

DATE: DECEMBER 2022
PROJECT NUMBER: 6353901
C-201
SHEET: 4 OF 8

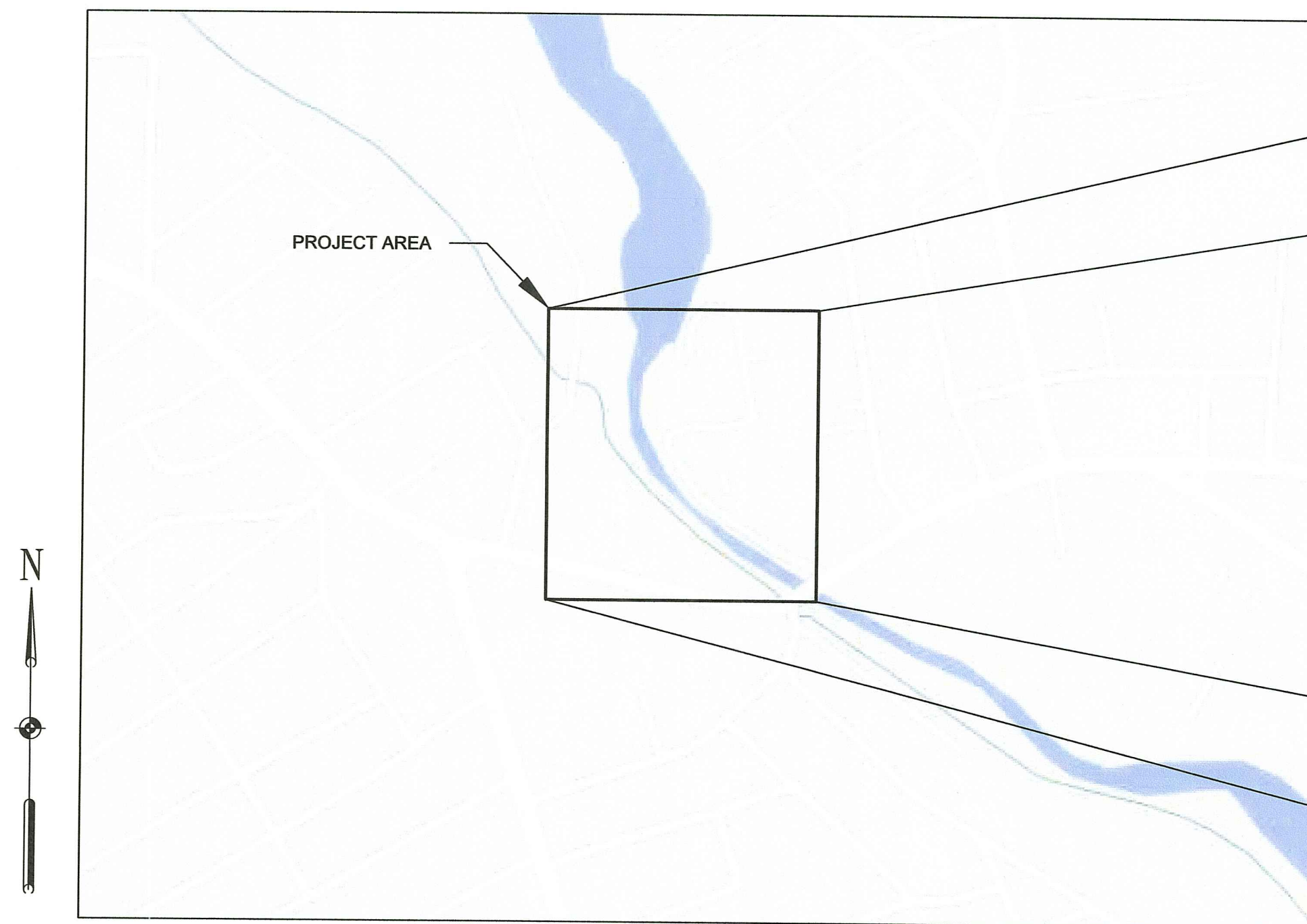
DRAFT FINAL SUBMITTAL - NOT FOR CONSTRUCTION

RHODE ISLAND ASSOCIATION OF CONSERVATION DISTRICTS WOONASQUATUCKET RIVERBANK RESTORATION

JOHNSTON, RHODE ISLAND
OCTOBER 2021 REVISION 01
60% PERMITTING DRAWING SET



RHODE ISLAND
(PROVIDENCE COUNTY HIGHLIGHTED)



SOURCE: GOOGLE MAPS, 2020

VICINITY MAP



SOURCE: GOOGLE MAPS, 2020

WOONASQUATUCKET RIVERBANK
RESTORATION PROJECT AREA MAP

DRAWING NO.	SHEET NO.	DRAWING TITLE
G-001	1	COVER SHEET
G-002	2	GENERAL NOTES, LEGEND, AND ABBREVIATIONS
C-101	3	PROPERTY BOUNDARY OUTLINE
C-102	4	EXISTING CONDITIONS
C-201	5	SITE ACCESS
C-202	6	PROPOSED CONDITIONS
C-203	7	RESTORATION PLAN
C-301	8	TYPICAL SECTIONS AND DETAILS
C-302	9	CROSS SECTIONS
C-303	10	PLANTING PLAN

Martin D. Wenzel
RI DEPARTMENT OF ENVIRONMENTAL MANAGEMENT
OFFICE OF WATER RESOURCES
FRESHWATER WETLANDS PROGRAM
APPROVED WITH CONDITIONS AS
SPECIFIED IN THE LETTER OF APPROVAL
DATED: OCT 17 2022 FILE # 21-0212
NO CHANGES ALLOWED WITHOUT PRIOR APPROVAL
APPROVED PLANS MUST BE AT CONSTRUCTION SITE

PLAN FOR NOTICE

RI Environmental Management
DATE: OCTOBER 2021
APR 26 2022
Office of Water Resources

DESIGN INFORMATION		DESIGNED BY: JS	NO.	DATE	BY	REVISIONS	DESCRIPTION
DRAWN BY: DCK		CHECKED BY: LLR	PROJECT MANAGER: AH				
SEAL							
RHODE ISLAND ASSOCIATION OF CONSERVATION DISTRICTS WOONASQUATUCKET RIVERBANK RESTORATION JOHNSTON, RHODE ISLAND		COVER SHEET					
EA Engineering, Science, and Technology, Inc., PBC 301 Metro Center Blvd, Suite 102 Warwick, RI 02886 (401) 736-3440		DATE: OCTOBER 2021 PROJECT NUMBER: 6353901					
G-001		SHEET: 1 OF 10					

PERMITTING SUBMITTAL - NOT FOR CONSTRUCTION

GENERAL CONSTRUCTION NOTES:

- UNDERGROUND UTILITIES, WHETHER INDICATED OR NOT, SHALL BE LOCATED AND FLAGGED BY UTILITY COMPANIES AT THE REQUEST OF THE CONTRACTOR. PRIOR TO START OF CONSTRUCTION ACTIVITY, CONTRACTOR TO CONTACT THE DIG SAFE HOTLINE OF RHODE ISLAND FOR UTILITY LOCATION AT 1-888-344-7233, OR 811.
- THE CONTRACTOR SHALL VERIFY ALL REQUIRED PERMITS HAVE BEEN OBTAINED BEFORE PROCEEDING WITH CONSTRUCTION.
- THE CONTRACTOR IS RESPONSIBLE FOR PROTECTING IN PLACE ALL ACTIVE UTILITY STRUCTURES (BOTH BELOW AND ABOVE GROUND), PIPING, AND APPURTENANCES THAT ARE TO REMAIN IN PLACE UNLESS OTHER TREATMENT IS SPECIFIED.
- THE CONTRACTOR SHALL BE RESPONSIBLE FOR MINIMIZING AND CLEANING UP DUST AND MUD ON ALL ROADS DAILY DUE TO VEHICLES ARRIVING AND LEAVING THE JOB SITE.
- IT SHALL BE UNDERSTOOD THAT FAILURE TO MENTION SPECIFICALLY ANY WORK THAT WOULD NORMALLY BE REQUIRED TO COMPLETE THE PROJECT SHALL NOT RELIEVE THE CONTRACTOR OF THEIR RESPONSIBILITY TO COMPLETE SUCH WORK.
- SHOULD THE CONTRACTOR DISCOVER DISCREPANCIES BETWEEN THE PLANS AND FIELD CONDITIONS, THE ENGINEER SHALL BE NOTIFIED IMMEDIATELY TO RESOLVE THE SITUATION. THE CONTRACTOR SHALL ASSUME ALL RESPONSIBILITY FOR ANY FIELD CORRECTIONS OR ADJUSTMENTS MADE WITHOUT NOTIFYING THE ENGINEER.
- EXISTING UTILITIES AND STRUCTURES (UNDERGROUND, SURFACE, OR OVERHEAD) ARE INDICATED ONLY TO THE EXTENT THAT SUCH INFORMATION WAS MADE AVAILABLE TO OR DISCOVERED BY THE ENGINEER IN PREPARING THE DRAWINGS. LOCATION, CONFIGURATIONS, AND ELEVATIONS OF EXISTING UNDERGROUND POWER, TELEPHONE, FIBER OPTIC CABLE, DUCT WAYS, SPRINKLER SYSTEMS, SEPTIC SYSTEMS, AND WATER, GAS, AND SEWER SERVICE LINES MAY NOT ALL BE INDICATED. OTHER UTILITIES AND STRUCTURES MAY BE PRESENT. UNDERGROUND LOCATIONS AND ELEVATIONS OF EXISTING UTILITIES AND STRUCTURES, AS FURNISHED BY THE ENGINEER OF EACH UTILITY OR STRUCTURE, ARE APPROXIMATE. OVERHEAD UTILITIES ARE NOT SHOWN IN PROFILE.
- THE CONTRACTOR IS RESPONSIBLE FOR KEEPING WORK AREAS SECURE AT ALL TIMES.
- JOB SAFETY SHALL BE SOLELY THE RESPONSIBILITY OF THE CONTRACTOR.
- THE CONTRACTOR SHALL PERFORM ALL WORK WITHIN THE LIMITS OF DISTURBANCE SHOWN ON THE DRAWINGS, UNLESS ENGINEER AND OWNER APPROVES WORK IN ADDITIONAL AREAS. IF NOT SHOWN, ALL LIMITS OF DISTURBANCE SHALL EXTEND 15 FEET FROM EDGE OF PROPOSED WORK. THE CONTRACTOR SHALL BE RESPONSIBLE FOR REPAIRS AND RESTORATION IN AREAS OUTSIDE OF APPROVED WORK LIMITS.
- THE CONTRACTOR SHALL PROTECT ALL TREES AS MUCH AS PRACTICAL. IF THE CONTRACTOR DECIDES ANY TREES REQUIRE REMOVAL, THE CONTRACTOR SHALL GET THE APPROVAL OF THE ENGINEER TO REMOVE THE TREE. NO TREES SHALL BE CUT OR REMOVED FROM THE SITE BETWEEN APRIL 1 AND JULY 15 WITHOUT FIRST COMPLETING A MIGRATORY BIRD SURVEY BY A QUALIFIED BIOLOGIST.
- ANY EXCESS MATERIAL THAT REMAINS UNUSED FOLLOWING CONSTRUCTION ACTIVITIES WILL BE THE PROPERTY OF THE CONTRACTOR AND MUST BE REMOVED FROM THE PROJECT SITE.
- BEFORE FINAL COMPLETION OF THIS WORK, ALL ROADWAYS, BIKE PATHS, FENCES, AND SIGNAGE SHALL BE RESTORED TO THEIR ORIGINAL CONDITION.
- THE SITE IS LOCATED APPROXIMATELY 550 FEET NORTHEAST OF GREENVILLE AVE.

EROSION CONTROL NOTES:

- DISTURBANCE OF SOIL SURFACES IS REGULATED BY STATE LAW AND LOCAL ORDINANCE. APPROVAL FROM RIDEM FRESHWATER WETLANDS AND RIPDES SECTIONS ARE REQUIRED. ALL WORK SHALL COMPLY WITH THE FOLLOWING CRITERIA AND ISSUED PERMIT CONDITIONS TO PREVENT OR MINIMIZE SOIL EROSION.
- THE INSTALLATION AND MAINTENANCE OR EROSION CONTROL DEVICES IS THE RESPONSIBILITY OF THE CONTRACTOR. PRIOR TO THE COMMENCEMENT OF CONSTRUCTION ACTIVITIES THE CONTRACTOR SHALL INSTALL ALL EROSION AND SEDIMENT CONTROL DEVICES AS SHOWN ON THE PLAN, OR AS DICTATED BY THE RHODE ISLAND DEPARTMENT OF ENVIRONMENTAL MANAGEMENT AND THE CITIES OF JOHNSTON AND PROVIDENCE. ALL EROSION CONTROL DEVICES SHALL BE MAINTAINED IN EFFECTIVE CONDITION DURING CONSTRUCTION.
- THE CONTRACTOR SHALL USE THE LATEST EDITION OF THE "STATE OF RHODE ISLAND SOIL EROSION AND SEDIMENT CONTROL HANDBOOK" AS A GUIDE IN CONSTRUCTION THE EROSION AND SEDIMENT CONTROLS INDICATED ON THE PLANS. ALL EROSION AND SEDIMENT CONTROL MEASURES OR WORKS AND REHABILITATION MEASURES MUST CONFORM TO OR EXCEED THE SPECIFICATIONS OR STANDARDS SET OUT IN THIS HANDBOOK.
- THE CONTRACTOR SHALL INSPECT EROSION AND SEDIMENT CONTROL DEVICES AT THE END OF EACH WORKING DAY, AFTER EACH STORM EVENT, AND AT LEAST DAILY DURING PROLONGED RAINFALL. REPAIR OR REPLACEMENT SHOULD BE MADE PROMPTLY AS NEEDED.
- THE CONTRACTOR IS RESPONSIBLE FOR THE TIMELY INSTALLATION, INSPECTION, MAINTENANCE, AND/OR REPLACEMENT OF ALL TEMPORARY AND PERMANENT EROSION CONTROL DEVICES TO ENSURE PROPER OPERATION THROUGHOUT THE LIFE OF THE PROJECT. THE CONTRACTOR IS RESPONSIBLE FOR MAINTENANCE OF PERMANENT MEASURES UNTIL CONSTRUCTION OF THE PROJECT IS COMPLETED OR UNTIL IT IS ACCEPTED BY THE OWNER. THE OWNER IS RESPONSIBLE THEREAFTER.
- IT SHALL BE THE CONTRACTOR'S RESPONSIBILITY TO CLEAN ROADS, CONTROL DUST, AND TAKE ALL NECESSARY MEASURES TO ENSURE THAT THE SITE AND ALL ADJACENT ROADS BE MAINTAINED IN A MUD- AND DUST-FREE CONDITION AT ALL TIMES THROUGHOUT THE LIFE OF THE CONTRACT. DUST CONTROL SHALL INCLUDE, BUT IS NOT LIMITED TO, WATER AND/OR CRUSHED STONE OR COARSE GRAVEL.
- ALL PROPOSED CONSTRUCTION ENTRANCES SHALL BE CONSTRUCTED AS SHOWN ON THE PLANS AND DETAILS. ALL VEHICLE TRAFFIC ENTERING OR EXITING THE PROJECT SITE SHALL PASS OVER THE CONSTRUCTION ENTRANCES TO REDUCE THE TRACKING AND FLOWING OF SEDIMENT ONTO THE SURROUNDING ROADWAYS. THIS WILL REQUIRE PERIODIC TOP DRESSING WITH ADDITIONAL STONE OR ADDITIONAL LENGTH AS CONDITIONS DEMAND AND REPAIR AND/OR CLEANOUT OF ANY MEASURES USED TO TRAP SEDIMENT. ALL SEDIMENT SPILLED, DROPPED, WASHED, OR TRACKED ONTO THE SURROUNDING ROADWAYS MUST BE REMOVED IMMEDIATELY. ADDITIONAL ENTRANCES FOR CONSTRUCTION PHASING SHALL BE INSTALLED AS REQUIRED TO PREVENT TRACKING OR FLOWING OF SEDIMENT ONTO ROADWAYS.
- THE CONTRACTOR SHALL INSTALL ALL PERIMETER SEDIMENT CONTROL BARRIERS (I.E. SILT FENCE) AS SHOWN ON THE PLANS. A ROW OF STAKED HAYBALES OR A SILT FENCE SHALL ALSO BE INSTALLED AROUND ANY SOIL STOCKPILE AREAS.
- THE CONTRACTOR SHALL RESTORE DISTURBED AREAS AS INDICATED ON THE PLANS. OTHER AREAS DAMAGED DURING CONSTRUCTION SHALL BE RESEDED OR OTHERWISE RESTORED TO THEIR ORIGINAL STATE AS CLOSELY AS POSSIBLE. TREES AND OTHER EXISTING VEGETATION NOT PROPOSED TO BE DEMOLISHED SHALL BE RETAINED AS INDICATED ON THE PLANS.
- TEMPORARY VEGETATIVE COVER SHALL BE APPLIED TO ANY DISTURBED AREAS (INCLUDING SOIL STOCKPILE AREAS) THAT HAVE NOT YET REACHED FINISHED GRADE AS SOON AS POSSIBLE, BUT NOT MORE THAN FOURTEEN (14) DAYS AFTER THE CONSTRUCTION ACTIVITY IN THAT AREA HAS TEMPORARILY CEASED. UNLESS THE ACTIVITY IS TO RESUME WITHIN TWENTY-ONE (21) DAYS. THE RECOMMENDED TEMPORARY SEEDING DATES ARE MARCH 15 TO NOVEMBER 15 WITH APPROVAL OF THE ENGINEER. TEMPORARY VEGETATIVE COVER SHALL CONSIST OF 40% OF ANNUAL RYEGRASS AND 60% OF PERENNIAL RYEGRASS (RIDOT M18.10.5). ANNUAL OR PERENNIAL RYEGRASS SHALL BE PLANTED AT A RATE OF 75 LBS/ACRE (BY HAND) OR 85 LBS/ACRE (BY HYDROSEED).
- PERMANENT VEGETATIVE COVER SHALL BE APPLIED TO ALL DISTURBED AREAS THAT HAVE REACHED FINISHED GRADE AS SOON AS POSSIBLE, BUT NOT MORE THAN FOURTEEN (14) DAYS AFTER THE CONSTRUCTION ACTIVITY IN THAT AREA HAS PERMANENTLY CEASED. THE RECOMMENDED PERMANENT SEEDING DATES ARE APRIL 1 TO JUNE 15 AND AUGUST 15 TO OCTOBER 15. WITH EXCEPTION TO THE OFF-SITE TEMPORARY CONSTRUCTION STAGING/STORAGE AREA, PERMANENT VEGETATIVE COVER WILL CONSIST OF OBSERVATION AND WETLAND SEED MIXES IN THE ON-SITE LOCATIONS SPECIFIED ON THE "VEGETATIVE RESTORATION PLAN" IN ADDITION TO SHRUB, TUBELING/LIVE STAKES, AND TREE PLANTINGS ALSO SPECIFIED ON THAT PLAN. REFER TO THE "VEGETATIVE RESTORATION PLAN" FOR SEED MIXTURE COMPOSITIONS, APPLICATION RATES, AND TREE, TUBELING, AND SHRUB SPACING REQUIREMENTS.
- IF SEEDING CANNOT BE COMPLETED IMMEDIATELY OR WITHIN THE RECOMMENDED SEEDING DATES, USE THE TEMPORARY MULCHING MEASURE TO PROTECT THE SITE AND DELAY SEEDING UNTIL THE NEXT RECOMMENDED SEEDING PERIOD. TEMPORARY MULCHING SHOULD BE PERFORMED AS SOON AS POSSIBLE, BUT NOT MORE THAN FOURTEEN (14) DAYS AFTER THE CONSTRUCTION ACTIVITY IN THAT AREA HAS TEMPORARILY CEASED UNLESS THE ACTIVITY IS TO RESUME WITHIN TWENTY-ONE (21) DAYS. ALL MULCHES MUST BE INSPECTED PERIODICALLY, IN PARTICULAR AFTER RAINSTORMS, TO CHECK FOR RILL EROSION. WHERE EROSION IS OBSERVED, ADDITIONAL MULCH MUST BE APPLIED. IF NETTING IS USED, THE NET SHALL BE INSPECTED AFTER RAINSTORMS FOR DISLOCATION OR FAILURE. IF WASHOUTS OR BREAKAGE OCCUR, THE NET MUST BE REINSTALLED AS NECESSARY AFTER REPAIRING DAMAGE TO SLOPE. INSPECTIONS SHALL TAKE PLACE UNTIL GRASSES ARE FIRMLY ESTABLISHED. GRASS IS CONSIDERED TO BE FIRMLY ESTABLISHED AT A MINIMUM HEIGHT OF THREE (3) INCHES.
- STRAW OR HAY MULCH, WOOD FIBER MULCH, AND HYDROMULCH ARE RECOMMENDED. STRAW OR HAY MULCH SHOULD BE APPLIED AT A RATE OF 2 TONS PER ACRE. WOOD FIBER MULCH SHOULD BE APPLIED AT A RATE OF 1,500-2,000 POUNDS PER ACRE. OR HYDROMULCH APPLIED AT A RATE OF 1,500 POUNDS PER ACRE. WOOD FIBER MULCH SHOULD NOT BE USED ALONE IN THE WINTER OR DURING HOT, DRY WEATHER. STRAW OR HAY MULCH MUST BE ANCHORED IMMEDIATELY AFTER SPREADING TO PREVENT WINDBLOWING. MULCH ANCHORING SHOULD ALSO BE USED ON SLOPES GREATER THAN THREE (3) PERCENT AND CONCENTRATED FLOW AREAS SUCH AS DIVERSION AND WATERWAY CHANNELS.

CONTROL POINTS:

CONTROL POINT	NORTHING	EASTING	ELEVATION	DESCRIPTION
CP-1	273,175.05	336,149.91	66.21	REBAR
CP-2	273,252.67	335,856.57	66.44	REBAR
CP-3	273,652.50	335,439.52	72.63	REBAR
CP-4	273,864.02	335,463.81	74.72	REBAR
CP-5	273,449.49	335,614.11	70.11	REBAR

INFORMATION SOURCE NOTES:

- A TOPOGRAPHIC SURVEY WAS COMPLETED WITHIN THE PROJECT AREA BY SMC SURVEYING AND MAPPING CONSULTANTS IN FEBRUARY 2020.
- HORIZONTAL DATUM IS RHODE ISLAND STATE PLANE NAD83 US SURVEY FEET AND THE VERTICAL DATUM IS NAVD88.
- IMAGE SOURCE: ©2021 MICROSOFT CORPORATION ©2021 MAXAR CNES (2021) DISTRIBUTION AIRBUS DS.
- PROPERTY LINE AND OWNERSHIP SOURCE: CITY OF JOHNSTON, RI GIS.
- WETLANDS DELINEATED BY EA ENGINEERING ON MAY 3, 2021

CONSTRUCTION QUANTITIES:

WILL BE ADDED FOR 90% DESIGN

ABBREVIATIONS:

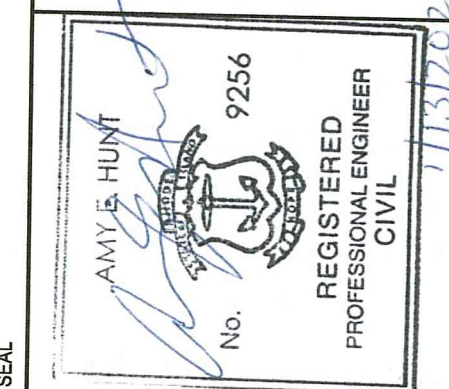
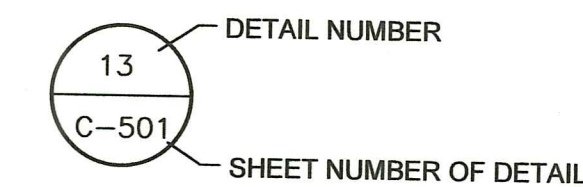
CONC	CONCRETE
CONT.	CONTINUOUS
CP	CONTROL POINT
CY	CUBIC YARDS
DIA.	DIAMETER
ELEV.	ELEVATION
F.E.S.	FLARED END SECTION
FT	FEET
HDPE	HIGH DENSITY POLYETHYLENE
ID	INSIDE DIAMETER
INV.	INVERT
LB.	POUNDS
LF	LINEAR FEET
LOD	LIMITS OF DISTURBANCE
MIN.	MINIMUM
N/A	NOT AVAILABLE
NAD	NORTH AMERICAN DATUM
NAVD	NORTH AMERICAN VERTICAL DATUM
NO.	NUMBER
OC.C	ON CENTER
OD	OUTSIDE DIAMETER
PVC	POLYVINYL CHLORIDE
RCP	REINFORCED CONCRETE PIPE
SF	SQUARE FEET
TYP	TYPICAL
Ø	DIAMETER
"	INCHES
'	FEET
#	NUMBER

SEQUENCE OF CONSTRUCTION

- PREPARATION AND APPROVAL OF REQUIRED PLANS AND SUBMITTALS
- COMPLETE CONSTRUCTION STAKING
- WALK SITE WITH OWNER AND REVIEW TREE AND VEGETATION REMOVAL
- LOCATE UTILITIES
- INSTALL TEMPORARY FACILITIES AND EROSION CONTROLS
- INSTALL CONSTRUCTION ENTRANCE
- CLEAR AND GRUB TREES APPROVED FOR REMOVAL
- INSTALL TEMPORARY COFFERDAM FROM STATION 301+90 TO 303+00
- DEWATER AND BACKFILL ERODED BANK FROM STATION 301+85 TO 302+50
- REMOVE TEMPORARY COFFERDAM
- INSTALL ACCESS RAMP AND RIVERBANK ACCESS FROM STATION 298+10 TO 303+15
- INSTALL RIPRAP ARMORED TOE AND RIPRAP ARMORED SLOPE STARTING ON DOWNSTREAM END. DECONSTRUCT ACCESS AS RIPRAP INSTALLATION PROGRESSES UPSTREAM. UTILIZE ACCESS MATERIAL AS RIPRAP BEDDING TO THE EXTENT POSSIBLE.
- COMPLETE RIVERBANK MAINTENANCE INCLUDING EROSION CONTROL BLANKET INSTALLATION AND SEEDING FROM STATION 298+10 TO 300+60 AND CLEARING DEAD VEGETATION WITH EROSION CONTROL BLANKET INSTALLATION AND SEEDING AS NEEDED FROM STATION 296+70 TO 298+10
- COMPLETE SITE RESTORATION
- DEMobilize
- VEGETATION ESTABLISHMENT
- RECORD DOCUMENTS

LEGEND:

	TREE MASS
	EXISTING CONTOURS
	CONTROL POINT
	100-YEAR FLOODPLAIN BOUNDARY
	PROPERTY LINE
	SIGN
	GUARD POST
	ROCK
	UTILITY POLE
	GUY WIRE
	GUARD RAIL
	TREE
	FENCE
	SEWER MANHOLE
	TELEPHONE MANHOLE
	PROPOSED CONTOURS
	WATER LINE
	WETLAND DELINEATION
	AVAILABLE STAGING AREA
	CREST OF SOIL AREA
	SILT FENCE
	RIPRAP
	ACCESS ROAD
	CLEARING DEAD VEGETATION AND DEBRIS
	SCARIFY AND GRADE TOPSOIL
	SEEDING AND EROSION CONTROL BLANKET
	CONSERVATION/WILDLIFE SEED MIX AND EROSION CONTROL BLANKET WHERE NEEDED
	EROSION CONTROL/RESTORATION SEED MIX
	LIMITS OF DISTURBANCE
	CONSTRUCTION ENTRANCE



RHODE ISLAND ASSOCIATION OF CONSERVATION DISTRICTS
 WOONASQUATUCKET RIVERBANK RESTORATION
 JOHNSTON, RHODE ISLAND

JOHNSTON, RHODE ISLAND

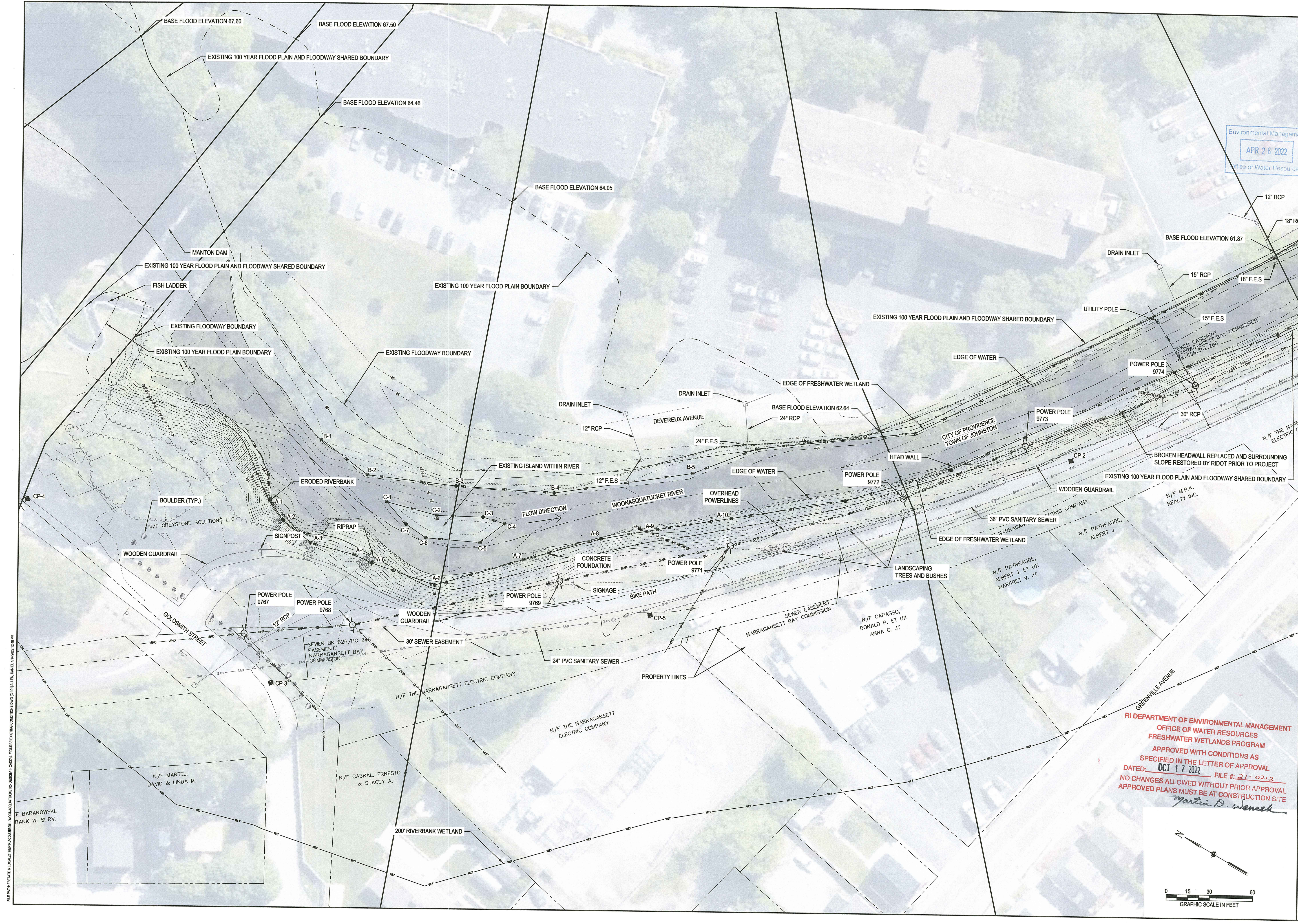
GENERAL NOTES, LEGEND, AND ABBREVIATIONS

DRAFT - NOT FOR CONSTRUCTION

Martin D. Wenzel
RI DEPARTMENT OF ENVIRONMENTAL MANAGEMENT
 OFFICE OF WATER RESOURCES
 FRESHWATER WETLANDS PROGRAM
 APPROVED WITH CONDITIONS AS
 SPECIFIED IN THE LETTER OF APPROVAL
 DATED: OCT 17 2022 FILE # 21-0212
 NO CHANGES ALLOWED WITHOUT PRIOR APPROVAL
 APPROVED PLANS MUST BE AT CONSTRUCTION SITE



DATE: OCTOBER 2021
 PROJECT NUMBER: 6353901
G-002
 SHEET: 2 OF 10



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Environmental Management
 APR 26 2022
 Office of Water Resources

REVISIONS	
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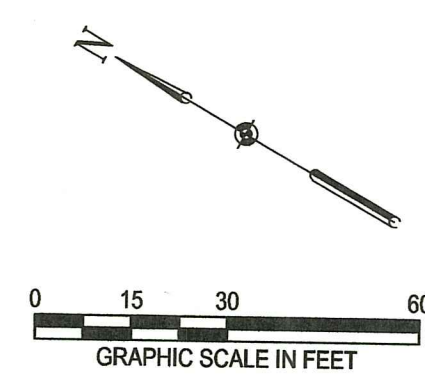
DESIGNED BY:	JS
DRAWN BY:	DCK
CHECKED BY:	LLR
PROJECT MANAGER:	AH

No. 9256 AMY S. HUNT REGISTERED PROFESSIONAL ENGINEER CIVIL	1157022
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RHODE ISLAND ASSOCIATION OF CONSERVATION DISTRICTS
 WOONASQUAKET RIVERBANK RESTORATION
 JOHNSTON, RHODE ISLAND

JOHNSTON, RHODE ISLAND
 EXISTING CONDITIONS

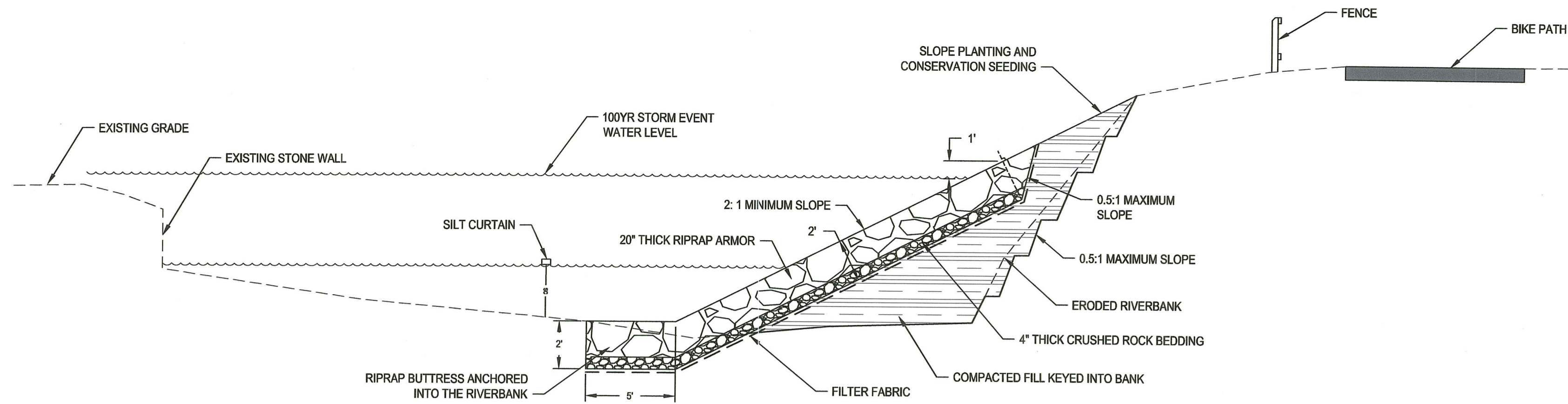
RI DEPARTMENT OF ENVIRONMENTAL MANAGEMENT
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Martin D. Wencsek



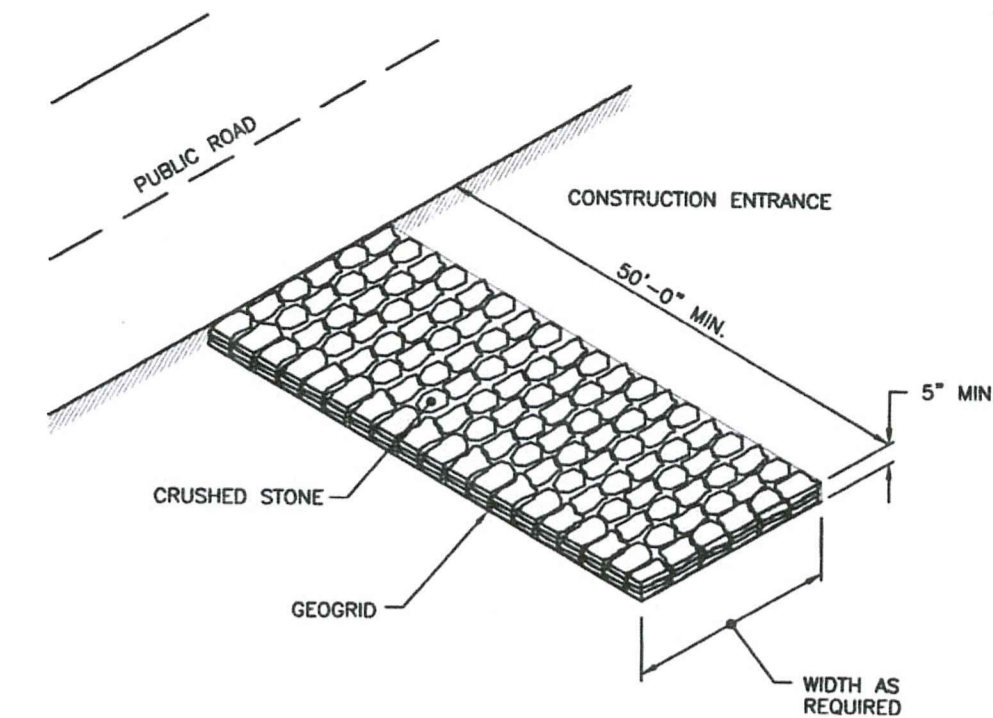
EA Engineering, Science,
 and Technology, Inc., PBC
 301 Metro Center Blvd, Suite 102
 Warwick, RI 02886
 (401) 736-3440

DATE: OCTOBER 2021
 PROJECT NUMBER: 6353901
C-102
 SHEET: 4 OF 10

DRAFT - NOT FOR CONSTRUCTION

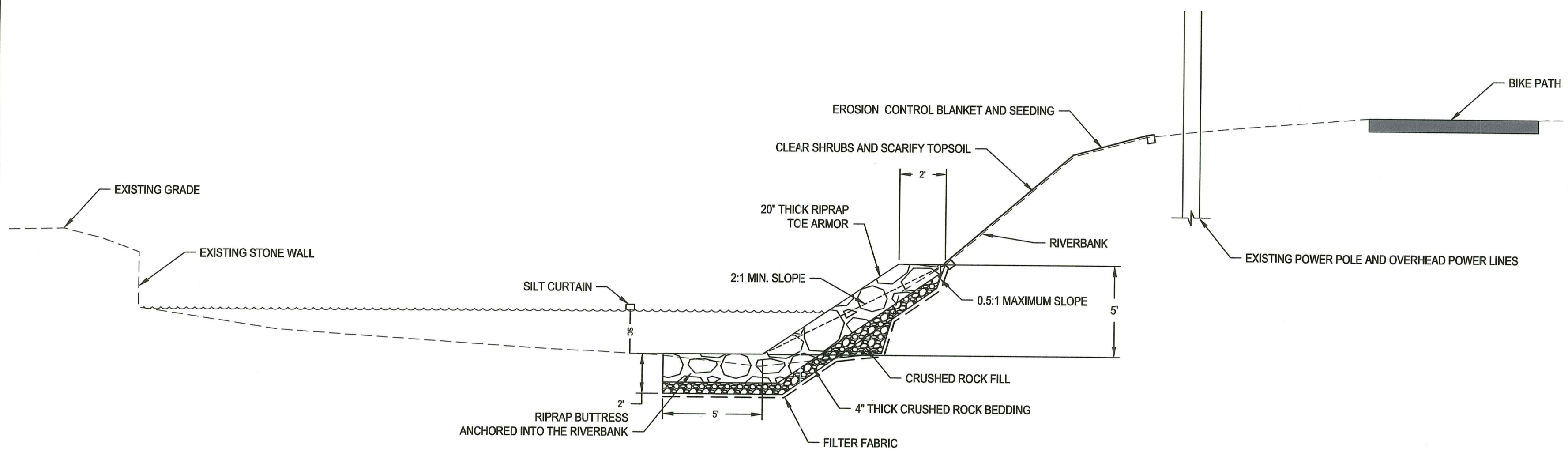


1 TYPICAL CROSS SECTION - RIPRAP ARMORED SLOPE
C-202 SCALE: NO SCALE

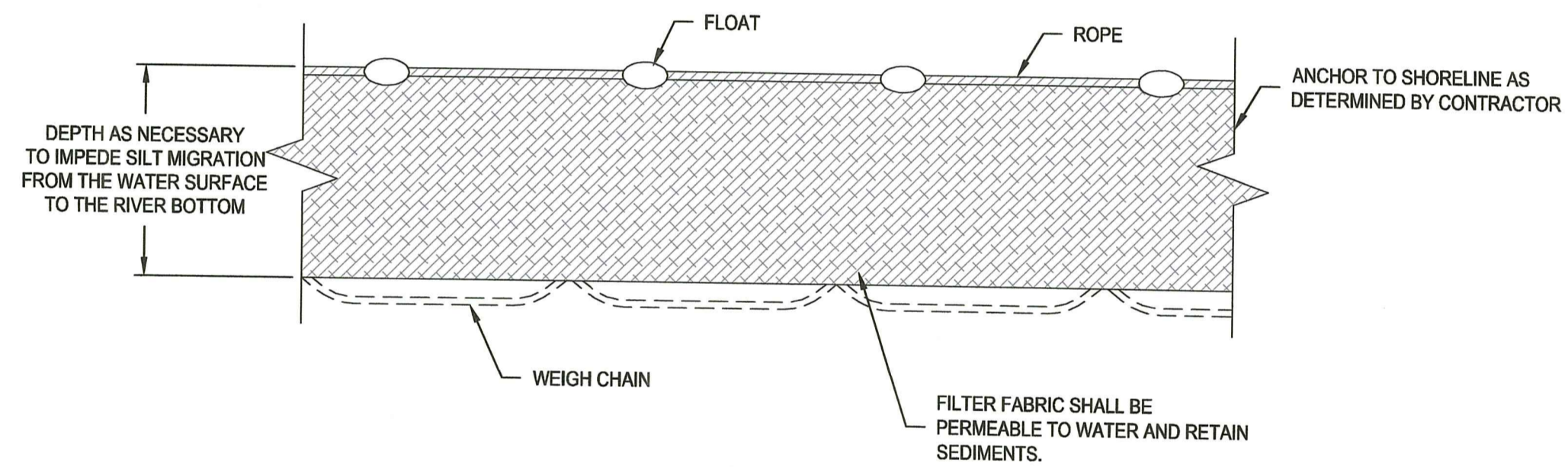


4 CONSTRUCTION ENTRANCE DETAIL
C-202 SCALE: NO SCALE

Environmental Management
APR 26 2022
Office of Water Resources

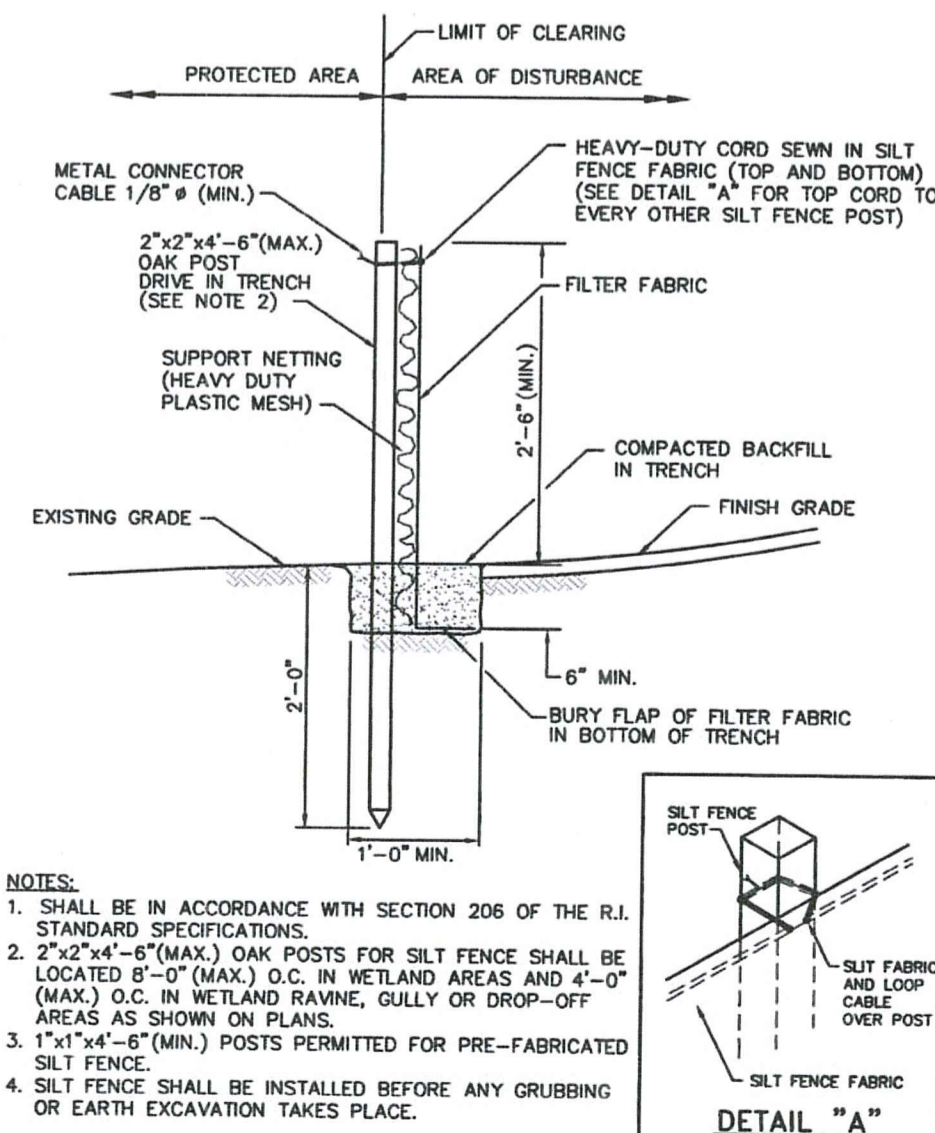


2 TYPICAL CROSS SECTION - RIPRAP ARMORED TOE
C-202 SCALE: NO SCALE

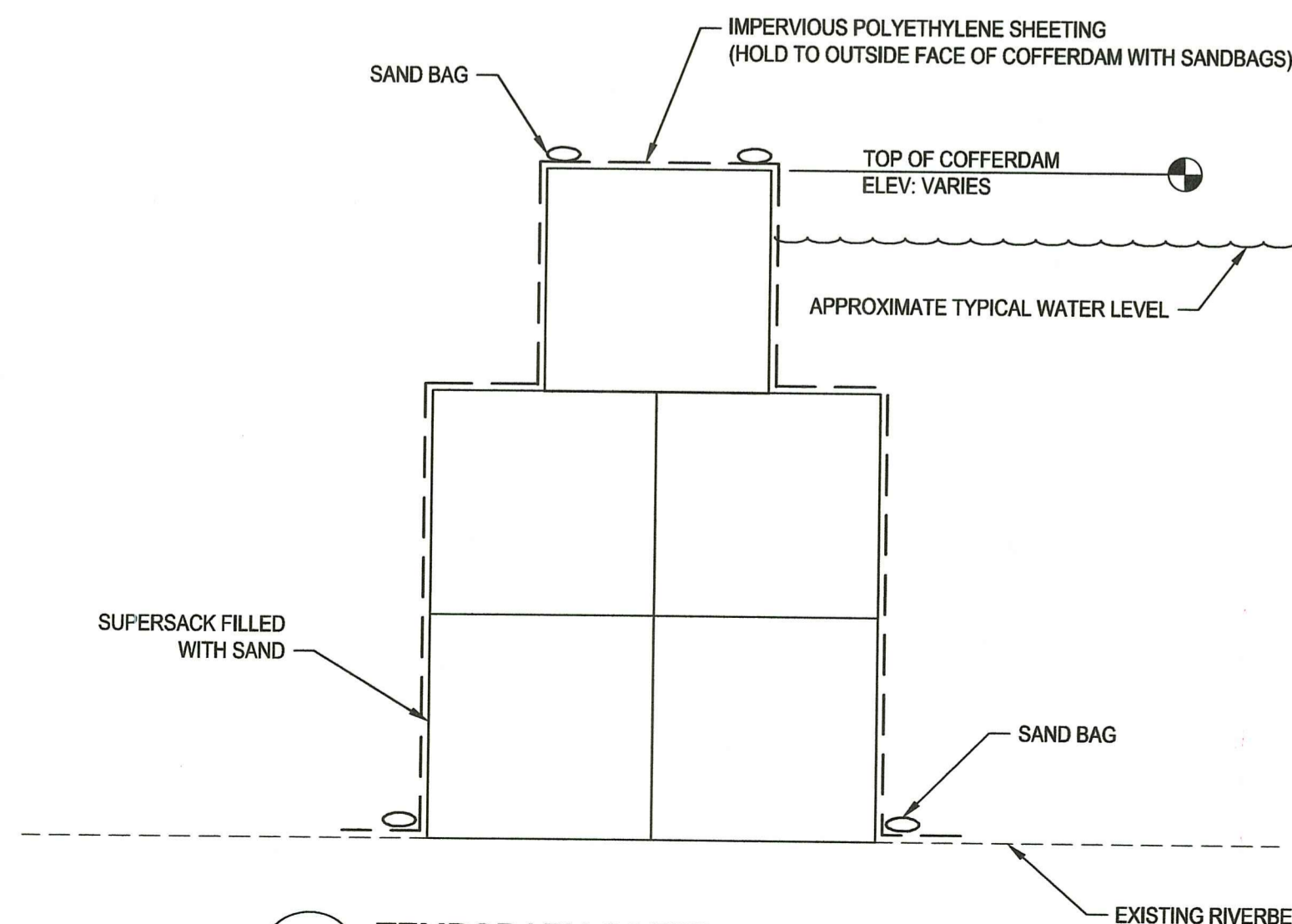


5 SILT CURTAIN DETAIL
C-201 SCALE: NO SCALE

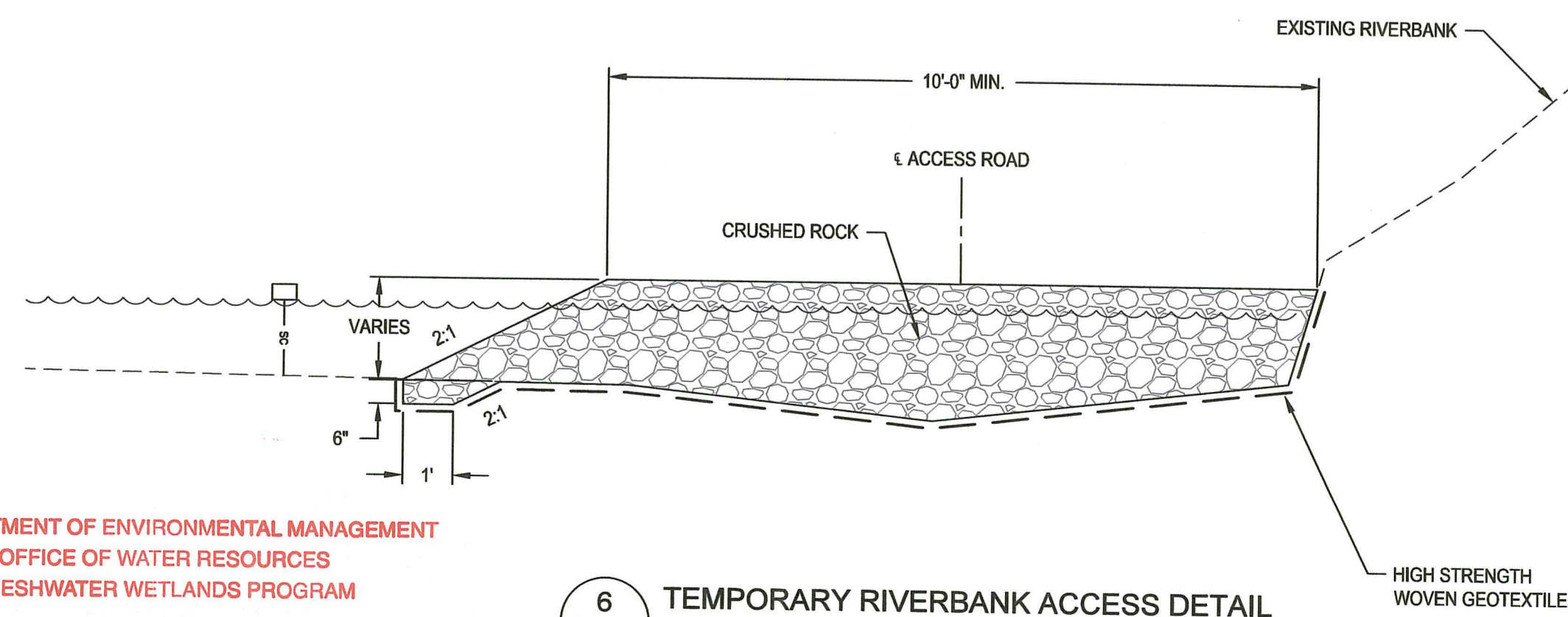
NOTE:
1. FLOATING SILT CURTAIN SHALL BE REUSED TO THE EXTENT POSSIBLE AS CONSTRUCTION ACTIVITIES MOVE DOWN THE RIVERBANK.



3 SILT FENCE DETAIL
SCALE: NO SCALE



7 TEMPORARY COFFERDAM DETAIL
C-201 SCALE: NO SCALE



6 TEMPORARY RIVERBANK ACCESS DETAIL
C-201 SCALE: NO SCALE

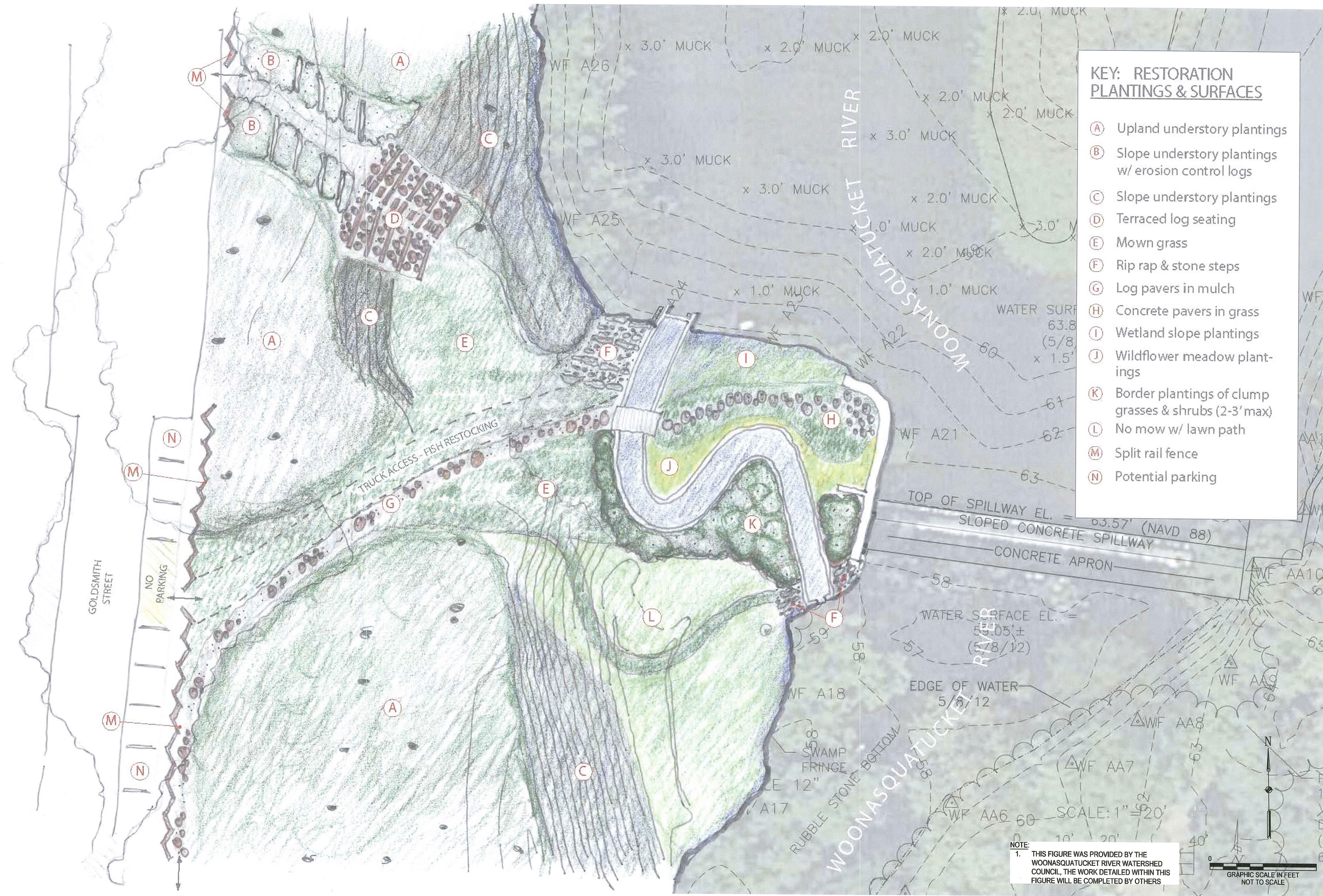
NOTES:
1. CONSTRUCTED ACCESS ROAD SHALL BE AS SHOWN OR AS APPROVED BY ENGINEER.
2. THE RIVERBANK ACCESS IS TO BE DECONSTRUCTED AS WORK PROGRESSES ALONG THE RIVERBANK. USE THE CRUSHED ROCK FROM THE ACCESS AS THE RIPRAP BEDDING WHEN POSSIBLE.

RI DEPARTMENT OF ENVIRONMENTAL MANAGEMENT
OFFICE OF WATER RESOURCES
FRESHWATER WETLANDS PROGRAM
APPROVED WITH CONDITIONS AS
SPECIFIED IN THE LETTER OF APPROVAL
DATED: OCT 17 2022 FILE #: 24-0213
NO CHANGES ALLOWED WITHOUT PRIOR APPROVAL
APPROVED PLANS MUST BE AT CONSTRUCTION SITE
Martin D. Wenczek

REVISIONS	DESCRIPTION
BY	
DATE	
NO.	
DESIGN INFORMATION	
DESIGNED BY: JS	
DRAWN BY: CNS	
CHECKED BY: LLR	
PROJECT MANAGER: AH	
RHODE ISLAND ASSOCIATION OF CONSERVATION DISTRICTS WOONASQUATUCKET RIVERBANK RESTORATION JOHNSTON, RHODE ISLAND JOHNSTON, RHODE ISLAND TYPICAL SECTIONS AND DETAILS	
DATE: OCTOBER 2021	
PROJECT NUMBER: 6353901	
C-301	
SHEET: 8 OF 10	

FILE PATH: F:\PROJECTS\2021\WONASQUATUCKET_RIVERBANK_RESTORATION\DESIGN\CROSS SECTIONS\TYPICAL CROSS SECTIONS\24-0213\24-0213.dwg, 11/22/2021 10:28 AM

DRAFT - NOT FOR CONSTRUCTION



- KEY: RESTORATION PLANTINGS & SURFACES**
- (A) Upland understory plantings
 - (B) Slope understory plantings w/ erosion control logs
 - (C) Slope understory plantings
 - (D) Terraced log seating
 - (E) Mown grass
 - (F) Rip rap & stone steps
 - (G) Log pavers in mulch
 - (H) Concrete pavers in grass
 - (I) Wetland slope plantings
 - (J) Wildflower meadow plantings
 - (K) Border plantings of clump grasses & shrubs (2-3' max)
 - (L) No mow w/ lawn path
 - (M) Split rail fence
 - (N) Potential parking

Environmental Management
Office of Water Resources
APR 26 2022

AMY E. HUNT
No. 9256
REGISTERED PROFESSIONAL ENGINEER
CIVIL
1137022

RHODE ISLAND ASSOCIATION OF CONSERVATION DISTRICTS
WOONASQUATUCKET RIVERBANK RESTORATION
JOHNSTON, RHODE ISLAND

JOHNSTON, RHODE ISLAND
PLANTING PLAN

MANTON FISH LADDER
FISH LADDER AREAS CONCEPT PLAN

RI DEPARTMENT OF ENVIRONMENTAL MANAGEMENT
OFFICE OF WATER RESOURCES
FRESHWATER WETLANDS PROGRAM
APPROVED WITH CONDITIONS AS SPECIFIED IN THE LETTER OF APPROVAL
DATED: OCT 17 2022 FILE #: 21-0212
NO CHANGES ALLOWED WITHOUT PRIOR APPROVAL
APPROVED PLANS MUST BE AT CONSTRUCTION SITE

A PROJECT OF THE
WOONASQUATUCKET RIVER WATERSHED COUNCIL

NOTE:
1. THIS FIGURE WAS PROVIDED BY THE WOONASQUATUCKET RIVER WATERSHED COUNCIL, THE WORK DETAILED WITHIN THIS FIGURE WILL BE COMPLETED BY OTHERS.

GRAPHIC SCALE IN FEET
NOT TO SCALE

DATE: OCTOBER 2021
PROJECT NUMBER: 6353901

C-303
SHEET: 10 OF 10

DRAFT - NOT FOR CONSTRUCTION