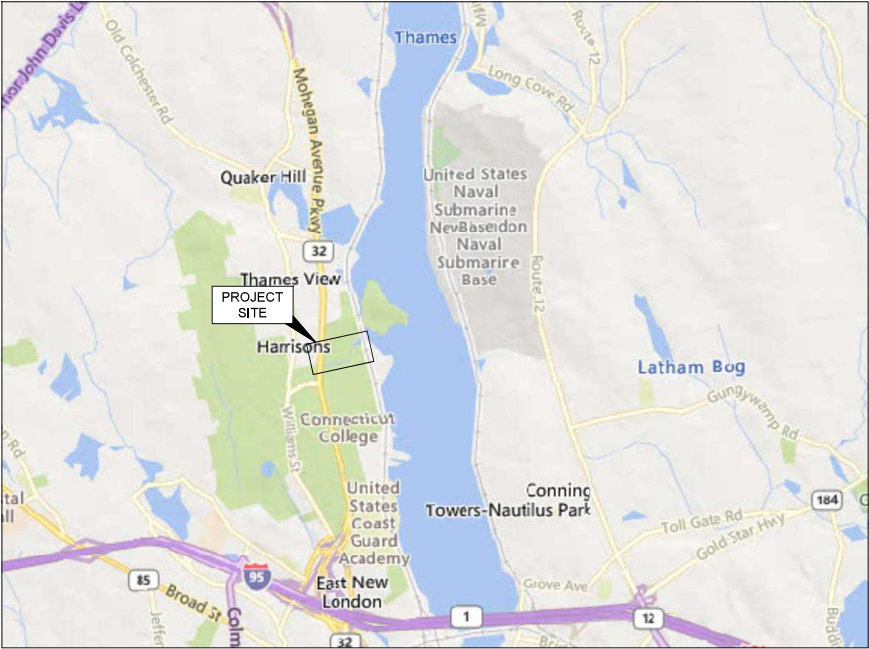


MAMACOKE BROOK OUTFALL CHANNEL STABILIZATION AND RESTORATION CONNECTICUT COLLEGE



VICINITY MAP
SCALE 1" = 4,000'



CLIENT

GRAHAM BOARDMAN
GREENVEST LLC
4201 NORTHVIEW DRIVE
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BOWIE, MD 20716

DATE: 02/06/2026 ISSUES / REVISIONS

SEMI-FINAL DESIGN



CONNECTICUT
COLLEGE

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Restore the Earth & Inspire Ecological Stewardship

MAMACOKE BROOK OUTFALL CHANNEL STABILIZATION AND RESTORATION

TITLE

TITLE SHEET

PROJECT NO.: 25201.01 SCALE: AS SHOWN
BY: EB, TB CHECK: DS

DWG. NO.:

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This is an abridge plan set.
Sheets have been omitted from this set for printing purposes.
A complete sheet set is included with the design report
submitted under separate cover.

EXISTING LEGEND

	MAJOR CONTOUR
	MINOR CONTOUR
	PROPERTY LINE
	LIMIT OF FIELD SURVEY
	LIMIT OF LIDAR CONTOURS
	TREE LINE
	TRAILS
	STONE WALL
	STORM DRAIN
	STREAM THALWEG
	MEAN HIGHER HIGH WATER (MHW, 1.21' NAVD 88)
	COASTAL JURISDICTION LINE (C/L, 2.20' NAVD 88)
	WETLANDS AND WATERCOURSES
	UPLAND REVIEW AREA
	ZONE OF ARCHAEOLOGICAL SENSITIVITY
	ZONE OF HIGHEST ARCHAEOLOGICAL SENSITIVITY
	PHRAGMITES LIMITS (APPROX)
	HISTORICAL EXTENT OF BOLBOSCOENUS MARITIMUS
	IRON PIN
	TREE
	FOREST VEGETATIVE COMMUNITY
	MEADOW VEGETATIVE COMMUNITY
	HEDGEROW VEGETATIVE COMMUNITY

PROPOSED LEGEND

	MAJOR CONTOUR
	MINOR CONTOUR
	LIMITS OF DISTURBANCE
	LIMIT OF HAND WORK
	CASCADE
	RIFFLE
	DYNAMIC BOULDER CLUSTER/WOODY COMPLEX
	POST AND WATTLE
	POOL WOOD/BOULDER CLUSTER TREATMENT
<u>EROSION & SEDIMENT CONTROL LEGEND</u>	
	CONSTRUCTION ACCESS PATH
	HARDWOOD MATS
	STABILIZED CONSTRUCTION ENTRANCE
	FILTER LOG
	PUMP
	FILTER BAG
	PUMP AROUND PRACTICE
	SANDBAG DIVERSION
	TREE REMOVAL
	TREE PLANTING

EROSION & SEDIMENT

CONSTRUCTION

CLIENT

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MAMACOKE BROOK OUTFALL CHANNEL STABILIZATION AND RESTORATION

SHEET LIST & LEGEND

PROJECT NO.:	25201.01	SCALE: NA	
SEAL:		BY: EB, TB	CHECK: DS
		DWG. NO.:	
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GENERAL NOTES:

1. SITE CONDITIONS - THE CONTRACTOR SHALL CONTINUALLY REVIEW SITE CONDITIONS, CONDITIONS REQUIRING CONSTRUCTION DIFFERENT OF THAT SHOWN ON THE PLANS SHALL BE REPORTED TO THE OWNER/ENGINEER PRIOR TO PROCEEDING WITH THE AFFECTED CONSTRUCTION.
2. PROTECTION OF PROPERTY - THE CONTRACTOR SHALL BE RESPONSIBLE FOR THE PROTECTION OF PUBLIC AND PRIVATE PROPERTY ADJACENT TO HIS WORK AND SHALL EXERCISE DUE CAUTION TO AVOID DAMAGE TO SUCH PROPERTY. THE CONTRACTOR SHALL REPLACE OR REPAIR TO THEIR ORIGINAL CONDITION. ALL IMPROVEMENTS WITHIN OR ADJACENT TO THE AREA OF WORK WHICH ARE NOT DESIGNATED FOR REMOVAL, AND WHICH ARE DAMAGED OR REMOVED AS A RESULT OF HIS OPERATIONS, CONTRACTOR SHALL PERFORM FULL WIDTH REPAIR OR REPLACE ANY DAMAGED ROADS, CURBS, FENCES, DRIVEWAY, AND SIDEWALKS IN KIND.
3. THE CONTRACTOR SHALL BE RESPONSIBLE FOR THE PROTECTION OF ALL PROPERTY CORNER MARKERS, PROPERTY CORNER MARKERS DAMAGED BY CONSTRUCTION ACTIVITIES SHALL BE REESTABLISHED BY A PROFESSIONAL SURVEYOR LICENSED IN CONNECTICUT.
4. SAFETY - NEITHER THE OWNER NOR THE ENGINEER/DESIGNATED SPECIALIST WILL BE RESPONSIBLE FOR ENSURING CONTRACTOR'S COMPLIANCE WITH SAFETY MEASURES OR REGULATIONS, THE CONTRACTOR SHALL DESIGN, CONSTRUCT, AND MAINTAIN ALL SAFETY DEVICES, AND SHALL BE SOLELY RESPONSIBLE FOR CONFORMING TO ALL LOCAL, STATE, FEDERAL, AND CONTRACTUAL SAFETY AND HEALTH STANDARDS, LAWS, AND REGULATIONS.
5. THE CONTRACTOR SHALL COMPLY TO THE FULLEST EXTENT WITH THE LATEST STANDARDS OF OSHA DIRECTIVES OR ANY OTHER AGENCY HAVING JURISDICTION FOR ALL ACTIVITIES ASSOCIATED WITH THIS PROJECT. THE CONTRACTOR IS RESPONSIBLE FOR COMPLYING WITH OSHA PERFORMANCE CRITERIA.
6. CONSTRUCTION, INCLUDING SAFETY OF ALL PERSONS AND PROPERTY.
7. STANDARDS SPECIFICATIONS - ALL CONSTRUCTION WORK AND INSTALLATION SHALL CONFORM TO THE PROJECT SPECIFICATIONS PROVIDED WITH THE CONTRACT DOCUMENTS AND ANY STANDARD SPECIFICATIONS AS INDICATED ON THESE PLANS.
8. NO CONSTRUCTION ACTIVITIES INCLUDING THE INSTALLATION OF EROSION AND SEDIMENT CONTROL MEASURES SHALL BEGIN UNTIL ALL REQUIRED EASEMENTS, RIGHT-OF-WAYS AND PERMITS HAVE BEEN OBTAINED.
9. APPROVED PLANS AND CONSTRUCTION SHALL BE STARTED WITHOUT APPROVED PLANS, ANY CONSTRUCTION DONE WITHOUT APPROVED PLANS AND PRIOR TO NOTIFICATION TO THE INSPECTOR WILL BE AT THE CONTRACTOR'S RISK, UNLESS SPECIFICALLY DIRECTED BY THE OWNER IN WRITING. THE OWNER RESERVES THE RIGHT TO REJECT CONSTRUCTION DONE WITHOUT APPROVED PLANS. THE CONTRACTOR SHALL HAVE COPIES OF THE APPROVE PLANS FOR THIS PROJECT ON THE SITE AT ALL TIMES AND SHALL BE FAMILIAR WITH ALL APPLICABLE STANDARDS AND SPECIFICATIONS.
10. THE CONTRACTOR SHALL MAINTAIN AN AS-BUILT REDLINE SET OF PLANS ON THE SITE AT ALL TIMES.
11. INSPECTIONS - THE CONTRACTOR IS RESPONSIBLE FOR ARRANGING THE REQUIRED INSPECTIONS, THE PRESENCE OR ABSENCE OF AN INSPECTOR WILL NOT RELIEVE THE CONTRACTOR OF FULL RESPONSIBILITY FOR THE PROPER PERFORMANCE OF WORK.
12. ELECTRONIC FILES MAY BE PROVIDED TO THE CONTRACTOR UPON REQUEST FOR THE SOLE PURPOSE OF PROVIDING CONSTRUCTION STAKING FOR GRADING ACTIVITIES. APPROVED PLANS SHALL TAKE PRECEDENCE OVER ELECTRONIC FILES.
13. WRITTEN DIMENSIONS ON THE PLANS AND DETAILS SHALL TAKE PRECEDENCE OVER SCALED DIMENSIONS.
14. THE CONTRACTOR SHALL BE RESPONSIBLE FOR THE CONTROL AND MAINTENANCE OF ALL DRAINAGE FLOWS DURING CONSTRUCTION.
15. IT SHALL BE UNDERSTOOD THAT FAILURE TO MENTION SPECIFICALLY ANY WORK WHICH WOULD NATURALLY BE REQUIRED TO COMPLETE THE PROJECT SHALL NOT RELIEVE THE CONTRACTOR OF HIS RESPONSIBILITY TO COMPLETE SUCH WORK.
16. THE CONTRACTOR MUST STORE ALL EQUIPMENT, MATERIALS, AND/OR SUPPLIES WITHIN DESIGNATED AREAS OF THE LOD AND ALL CONSTRUCTION ACTIVITIES AND ACCESS MUST REMAIN WITHIN THE LOD AS SHOWN ON THE PLANS.
17. A DISTINCTION BETWEEN NEW AND EXISTING ITEMS HAS BEEN MADE ON THE DRAWINGS BY LINE WEIGHT. BLACK LINES REPRESENT NEW WORK UNDER THIS CONTRACT. GRAY LINES REPRESENT EXISTING FEATURES.
18. SHOULD THE CONTRACTOR DISCOVER ANY DISCREPANCIES BETWEEN THE PLANS AND FIELD CONDITIONS, THE ENGINEER AND/OR OWNER IS TO BE NOTIFIED IMMEDIATELY TO RESOLVE THE SITUATION. SHOULD THE CONTRACTOR MAKE FIELD CORRECTIONS OR ADJUSTMENTS WITHOUT NOTIFYING THE OWNER, THEN THE CONTRACTOR ASSUMES ALL RESPONSIBILITY FOR THOSE CHANGES.
19. THE CONTRACTOR IS SOLELY RESPONSIBLE FOR CONSTRUCTION MEANS, METHODS, TECHNIQUES, SEQUENCES, PROCEDURES, SAFETY PRECAUTIONS, AND PROGRAMS UNLESS OTHERWISE NOTED ON THE PLANS.
20. UPON COMPLETION OF THE WORK, BUT PRIOR TO DE-MOBILIZATION, THE CONTRACTOR SHALL REMOVE ALL REMNANTS OF CONSTRUCTION MATERIALS FROM THE SITE, THE CONTRACTOR SHALL RESTORE ALL DISTURBED AREAS TO A CONDITION EQUAL OR BETTER THAN THE PRE-CONSTRUCTION CONDITIONS.
21. THE GRADING TOLERANCE IS ± 0.2 VERTICAL AND ± 0.5 HORIZONTAL. STRUCTURE ELEVATION LOCATIONS AND GRADING MAY BE FIELD ADJUSTED AT THE DISCRETION OF THE ENGINEER/DESIGNATED SPECIALIST.
22. EXCAVATION TO BE PERFORMED BY MECHANICAL MEANS ONLY. BLASTING AND HYDRAULIC DREDGING IS NOT PERMITTED.
23. IMPORTED FILL MATERIAL MUST BE FREE OF CONTAMINATION LEVELS OF ANY POLLUTANT THAT IS, OR MAY BE CONSIDERED TO REPRESENT, A POSSIBLE HEALTH HAZARD TO THE PUBLIC OR MAY BE DETRIMENTAL TO SURFACE OR GROUND WATER QUALITY, OR WHICH MAY CAUSE DAMAGE TO PROPERTY OR THE DRAINAGE SYSTEM. ALL FILL MATERIAL MUST BE FREE OF HAZARDOUS MATERIALS AND COMPLY WITH ALL APPLICABLE LOCAL AND FEDERAL REGULATIONS.
24. THE CONTRACTOR SHALL ABIDE BY ALL APPLICABLE ENVIRONMENTAL PROTECTION STANDARDS. XXX WETLAND LICENSE PERMIT, USACE PERMITS, LAWS AND REGULATIONS, DISPOSAL OF TRASH AND DEBRIS MATERIALS IN THAMES RIVER IS NOT PERMITTED.

EXISTING CONDITIONS NOTES:

1. THE FOLLOWING DATA ARE PROVIDED REGARDING TIDAL INFORMATION. TIDAL INFORMATION WAS OBTAINED FROM THE NATIONAL OCEANIC AND ATMOSPHERIC ADMINISTRATION (NOAA), NATIONAL OCEAN SERVICE (NOS) BENCHMARK 8461490 (NEW LONDON, CONNECTICUT). ELEVATIONS ARE REFERENCED ON THE 1983-2001 EPOCH.
 - HIGHEST RECORDED TIDE (09/21/1938) = +8.74 FEET
 - HIGHEST ASTRONOMICAL TIDE (HAT) = +2.04 FEET
 - MEAN HIGHER HIGH WATER (MHHW) = +1.21 FEET
 - MEAN HIGH WATER (MHW) = +0.92 FEET
 - NORTH AMERICAN VERTICAL DATUM (NAV88) = +0.00 FEET
 - MEAN SEA LEVEL (MSL) = -0.30 FEET
 - MEAN TIDE LEVEL (MTL) = -0.36 FEET
 - MEAN LOW WATER (MLW) = -1.65 FEET
 - MEAN LOWER LOW WATER (MLLW) = -1.84 FEET
 - LOWEST RECORDED TIDE (02/02/1976) = -5.84 FEET
2. LIDAR TOPOGRAPHY PROVIDED BY WHITEOUT SOLUTIONS SUPPLEMENTED WITH PLANIMETRIC FEATURES COLLECTED BY MCA AND BIOHABITATS.
3. EXISTING PLANIMETRIC FEATURES OBSERVED AND FIELD LOCATED BY MARTINEZ COUCH & ASSOCIATES, LLC. (MCA) IN JULY 2025. ADDITIONAL PLANIMETRIC FEATURES COLLECTED BY BIOHABITATS IN AUGUST 2025.
4. DELINEATED WETLANDS AND NUMBERED TREES SURVEYED AND GPS-LOCATED BY BIOHABITATS IN SEPTEMBER 2025.
5. THIS SURVEY AND MAP HAS BEEN PREPARED PURSUANT TO THE REGULATIONS OF CONNECTICUT STATE AGENCIES SECTIONS 20-300B-1 THROUGH 20-300B-20 AND THE "STANDARDS AND SUGGESTED METHODS AND PROCEDURES FOR SURVEYS AND MAPS IN THE STATE OF CONNECTICUT" AS ADOPTED BY THE CONNECTICUT ASSOCIATION OF LAND SURVEYORS, INC. ON AUGUST 29, 2019. IT IS A LIMITED TOPOGRAPHIC SURVEY CONFORMING TO THE HORIZONTAL ACCURACY CLASS A-2 AND TOPOGRAPHIC ACCURACY CLASS T-2.
6. NORTH ORIENTATION REFERS TO CONNECTICUT STATE PLANE COORDINATE SYSTEM NAD 83. ALL DISTANCES SHOWN HEREIN ARE IN US SURVEY FEET, UNLESS OTHERWISE NOTED. ELEVATIONS SHOWN HEREIN ARE RELATIVE TO NAV88 AND IN FEET, UNLESS OTHERWISE NOTED.
7. PROPERTY LINES DEPICTED HEREON ARE BASED ON GIS AND DO NOT REPRESENT A LAND SURVEYOR'S OPINION AND RESULTS MAY DIFFER FROM AN ACTUAL BOUNDARY SURVEY.
8. PARCEL IS IN ZONE X, ZONE X (0.2%) AND ZONE AE FLOOD HAZARD ZONE WITH A BASE ELEVATION OF 11 FEET AS DEPICTED ON THE FLOOD INSURANCE RATE MAP, TOWN OF WATERFORD, CONNECTICUT, PANEL 363 OF 554, COMMUNITY PANEL NUMBER 0901C03953, MAP REVISED AUGUST 5, 2013 BY THE FEDERAL EMERGENCY MANAGEMENT AGENCY.
9. CONTRACTOR SHALL VERIFY SITE CONDITIONS AND REPORT ANY DISCREPANCIES TO THE ENGINEER/DESIGNATED SPECIALIST PRIOR TO BEGINNING CONSTRUCTION.
10. EXISTING ELEVATIONS AND GRADES MAY HAVE CHANGED SINCE THE ORIGINAL SURVEY WAS COMPLETED. IT IS THE CONTRACTOR'S RESPONSIBILITY TO CONFIRM EXISTING GRADES AND ADJUST QUANTITIES, EARTHWORK AND WORK EFFORTS AS NECESSARY AT NO ADDITIONAL COST TO THE PROJECT OWNER.

UTILITY NOTES:

1. VISIBLE ABOVE GROUND UTILITIES HAVE BEEN PROVIDED VIA TOPOGRAPHIC SURVEY. SUBSURFACE UTILITY LOCATIONS AND ELEVATIONS ARE APPROXIMATE AND TAKEN FROM BEST AVAILABLE PLANS, RECORDS, AND/OR FIELD RECONNAISSANCE. OTHER UTILITIES MAY EXIST THAT ARE NOT SHOWN AND SHOULD BE VERIFIED IN THE FIELD BY THE CONTRACTOR. THE CONTRACTOR SHALL TAKE ALL NECESSARY MEASURES TO LOCATE AND PROTECT THE EXISTING UTILITIES AND MAINTAIN UNINTERRUPTED SERVICE. ANY DAMAGE INCURRED DUE TO THE CONTRACTOR'S OPERATIONS SHALL BE REPAIRED IMMEDIATELY AT THE CONTRACTOR'S EXPENSE.
2. THE CONTRACTOR SHALL CALL CONNECTICUT CALL BEFORE YOU DIG (1-800-922-4455) A MINIMUM OF 48 HOURS PRIOR TO CONSTRUCTION, ALL EXISTING UTILITIES MUST BE MARKED IN THE FIELD PRIOR TO CONSTRUCTION.
3. THE CONTRACTOR SHALL CONFIRM EXISTING UTILITY LOCATION AND ELEVATION AT ALL LOCATION(S) WHERE PROPOSED WORK CROSSES THE EXISTING UTILITIES. THE ENGINEER IS TO BE NOTIFIED OF THIS INFORMATION IN ADVANCE OF CONSTRUCTION AND IF THERE ARE ANY CONFLICTS WITH PROPOSED WORK.
4. CONTRACTOR SHALL EXERCISE CARE WHEN DIGGING ADJACENT TO AND CROSSING THE UTILITIES TO ENSURE THAT THESE AND ALL UTILITIES ARE PROTECTED FROM DAMAGE DURING CONSTRUCTION. ANY DAMAGE TO THE UTILITIES IS THE CONTRACTOR'S RESPONSIBILITY.
5. ANY EXISTING UTILITIES NOT IMPACTED BY PROPOSED WORK ARE TO BE PROTECTED AND TO REMAIN IN SERVICE.
6. THE CONTRACTOR SHALL BE RESPONSIBLE FOR THE SPILLAGE OF RAW SEWAGE OR OTHER SUBSTANCES THAT WOULD BE CONSIDERED DANGEROUS TO THE ENVIRONMENT DURING ITS CONSTRUCTION OPERATIONS. THE CONTRACTOR SHALL FURNISH ALL NECESSARY EQUIPMENT (PLUGGING, PUMPING, CONTAINMENT EQUIPMENT, ETC.) TO PREVENT SPILLAGE OR AS REQUIRED TO SUCCESSFULLY TRANSPORT SEWAGE TO COMPLETE HIS WORK. ALL SEWAGE TRANSPORT SHALL BE BY A DISPOSAL CONTRACTOR LICENSED IN ALL JURISDICTIONS FOR WHICH THE SEWAGE WILL BE TRANSPORTED.
7. THE CONTRACTOR SHALL VERIFY, BY FIELD MEASUREMENT, THE OUTSIDE DIMENSIONS AND MATERIAL OF ALL PIPES, FITTINGS, AND STRUCTURES TO ASSURE PROPER CLEARANCE AND SPACING PRIOR TO FABRICATION OR INSTALLATION.
8. THE CONTRACTOR IS RESPONSIBLE FOR ANY DAMAGE TO EXISTING UTILITIES THAT MAY OCCUR AS A RESULT OF THE CONSTRUCTION, DAMAGED UTILITIES ARE TO BE IMMEDIATELY REPORTED TO BOTH THE UTILITY OWNER AND PROJECT ENGINEER. ANY DAMAGE TO EXISTING STRUCTURES INCLUDING SEWER PIPES/MANHOLE'S, STORM DRAIN PIPES/STRUCTURES SHALL BE REPAIRED TO THE UTILITY OWNER'S SATISFACTION BY THE CONTRACTOR AT HIS/HER OWN EXPENSE.

DEMOLITION NOTES:

1. CONTRACTOR SHALL COORDINATE WITH UTILITY COMPANIES FOR SHUTOFF, CAPPING AND CONTINUATION OF UTILITY SERVICES AS REQUIRED.
2. CONTRACTOR SHALL REMOVE AND TRANSPORT ALL DEBRIS, RUBBISH AND OTHER MATERIALS RESULTING FROM ALL DEMOLITION OPERATIONS TO A LEGAL DISPOSAL OFF SITE.
3. REMOVAL OF ASPHALT AND CONCRETE PAVEMENT SHALL INCLUDE THE REMOVAL OF ALL SURFACE, BASE AND SUB-BASE MATERIALS UNLESS OTHERWISE SPECIFIED.
4. IT IS THE RESPONSIBILITY OF THE CONTRACTOR TO VERIFY AND DETERMINE THE EXACT LOCATION AND DEPTH OF ALL UTILITIES PRIOR TO COMMENCING WORK.
5. THE CONTRACTOR MUST HAND-DIG TEST PITS AT ALL UTILITY CROSSINGS TO DETERMINE THE EXACT LOCATION AND DEPTH OF ALL UTILITIES AS WELL IN DEMOLITION WORK AND PRIOR TO ORDERING PIPE MATERIALS AND STRUCTURE. UTILITIES FOUND DURING DEMOLITION OR CONSTRUCTION ACTIVITIES SHALL BE THE RESPONSIBILITY OF ANY CONTRACTOR ENGAGED IN EXCAVATION AT THIS SITE. THE ENGINEER SHALL BE NOTIFIED IMMEDIATELY OF ANY UTILITY FINDINGS WHICH DEVIATE FROM THE CONDITIONS SHOWN.
6. ALL EROSION & SEDIMENT CONTROL METHODS SHALL BE INSTALLED BEFORE THE START OF ANY EXCAVATION AND/OR DEMOLITION AS PER CONNECTICUT GUIDELINES FOR SOIL EROSION AND SEDIMENT CONTROL. IF ANY ONSITE INSPECTION REVEALS FURTHER EROSION CONTROL MEASURES ARE NECESSARY, THE SAME SHALL BE PROVIDED. REFER TO EROSION AND SEDIMENT CONTROL PLAN AND DETAILS.
7. SEE EROSION & SEDIMENT CONTROL PLAN FOR ALL EXISTING TREES TO REMAIN AND BE PROTECTED.
8. NOTE PROXIMITY OF ADJACENT STRUCTURES AND UTILITY LINES AND MAINTAIN CONTINUED SERVICE DURING CONSTRUCTION. COORDINATE WITH RESPECTIVE UTILITY COMPANIES AND ENGINEER SHOULD RELOCATION OF SERVICE BE REQUIRED.
9. REMOVAL OF ALL WALLS/RETAINING WALLS AND FENCES SHALL INCLUDE THE REMOVAL OF THEIR FOUNDATION UNLESS OTHERWISE INDICATED ON THESE DRAWINGS.
10. UNLESS OTHERWISE SHOWN ON THESE DRAWINGS, EXISTING PAVEMENT TO REMAIN. CONTRACTOR TO PROVIDE PRE-CONSTRUCTION VIDEO OF EXISTING PAVEMENT. EXISTING PAVEMENT, DISTURBED OR DAMAGED DURING CONSTRUCTION, SHALL BE REPLACED PER DDOT STANDARDS AND SPECIFICATIONS AT NO ADDITIONAL COST.
11. WHERE PORTIONS OF EXISTING BITUMINOUS OR CONCRETE PAVING ARE TO BE REMOVED, THE EXISTING PAVEMENT SHALL BE SAW-CUT.

GENERAL EROSION AND SEDIMENT CONTROL NOTES:

1. ALL CONSTRUCTION SHALL BE IN ACCORDANCE WITH CONNECTICUT STATE STANDARDS AND SPECIFICATIONS FOR EROSION AND SEDIMENT CONTROL (BLUE BOOK) UNLESS OTHERWISE NOTED.
2. THE CONTRACTOR IS REQUIRED TO PROVIDE AND MAINTAIN EROSION AND SEDIMENT CONTROL MEASURES IN ACCORDANCE WITH THE STANDARDS AND SPECIFICATIONS FOR SOIL EROSION AND SEDIMENT CONTROL.
3. NOTIFY THE SEDIMENT CONTROL INSPECTOR 3 DAYS PRIOR TO STARTING WORK ON THIS PROJECT.
4. ALL DISTURBED AREAS TO BE GRADED TO DRAIN TO A SEDIMENT DEVICE. NO DISTURBED AREAS TO BE ALLOWED TO DRAIN DIRECTLY OFF SITE.
5. THE CONTRACTOR SHALL BE RESPONSIBLE FOR ASSURING THAT THE SEDIMENT CONTROL MEASURES ARE FUNCTIONAL ON A DAY-TO-DAY BASIS.
6. DISTURBED AREAS ALONG STORM DRAINS AND OUTFALLS SHALL BE STABILIZED IMMEDIATELY AFTER COMPLETION.
7. ALL SEDIMENT CONTROL FACILITIES ARE TO REMAIN IN PLACE UNTIL AREA ABOVE FACILITIES ARE STABILIZED AND PERMISSION FOR REMOVAL HAS BEEN OBTAINED FROM THE SEDIMENT CONTROL INSPECTOR.
8. EXCESS EXCAVATION AND TRASH/DEBRIS WILL BE HAULED TO AN APPROVED DISPOSAL SITE. THE CONTRACTOR SHALL BE RESPONSIBLE FOR OBTAINING APPROVALS FOR ALL OFF-SITE BORROW PITS AND DISPOSAL AREAS.
9. SEDIMENT CONTROL MEASURES MUST BE INSPECTED AND MAINTAINED REGULARLY TO INSURE THAT THE INTENDED PURPOSES ARE ACCOMPLISHED.
10. AT THE END OF EACH WORKING DAY, ALL SEDIMENT CONTROL PRACTICES WILL BE INSPECTED AND LEFT IN OPERATIONAL CONDITION.
11. CONTRACTOR IS REQUIRED TO COMPLY WITH INSPECTION AND REPORTING REQUIRES AS DEFINED BY THE PROJECT'S GENERAL PERMIT FOR STORMWATER.
12. DUST CONTROL WILL BE PROVIDED FOR ALL DISTURBED AREAS.
13. PUMPING SEDIMENT-LADEN WATER INTO WATERS OF THE STATE IS STRICTLY PROHIBITED.
14. THE CONTRACTOR SHALL PROTECT ALL POINTS OF CONSTRUCTION INGRESS AND EGRESS TO PREVENT THE DEPOSITION OF MATERIALS ON PUBLIC ROAD AND PRIVATE PROPERTY. ALL MATERIAL DEPOSITED ON PUBLIC ROADS SHALL BE MECHANICALLY REMOVED IMMEDIATELY. FLUSHING OF THE ROAD SURFACE IS PROHIBITED.

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MAMACOKE BROOK
OUTFALL CHANNEL
STABILIZATION AND
RESTORATION

TITLE			
GENERAL NOTES (1 OF 2)			
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	DWG. NO.		
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EROSION AND SEDIMENT CONTROL/CONSTRUCTION ACCESS NOTES:

1. THE LIMIT OF DISTURBANCE (LOD) SHOWN ON THE PLANS ENCOMPASSES ALL DISTURBANCE ACTIVITIES RELATED TO THE STREAM CHANNEL IMPROVEMENTS AND CONSTRUCTION ACCESS. ALL HEAVY EQUIPMENT AND VEHICLE ACCESS SHALL GENERALLY FOLLOW THE PRIMARY CONSTRUCTION ACCESS PATH AND GRADING AREA AS SHOWN ALONG THE MAIN STREAM CHANNELS. BUT MAY BE ADJUSTED IN THE FIELD TO MINIMIZE IMPACT TO NATURAL RESOURCES WITH APPROVAL FROM THE ENGINEER/DESIGNATED SPECIALIST. LAND DISTURBANCE OUTSIDE OF THIS PRIMARY ACCESS AND GRADING AREA SHALL BE MINIMIZED BUT SHALL INCLUDE SELECTIVE TREE HARVESTING AND PLANTING ACTIVITIES. SPUR ROADS BETWEEN THE PRIMARY CONSTRUCTION ACCESS PATH SHALL BE FIELD LOCATED AND APPROVED BY DESIGNATED SPECIALIST AND OWNER.
2. CONSTRUCTION ACCESS AND STOCKPILE AREAS SHALL BE PROTECTED USING THE CONSTRUCTION ACCESS ROAD DETAIL OR HARDWOOD MATS AS DEFINED ON PLANS. IF APPLICABLE, ADDITIONAL HARDWOOD MATS SHALL BE INSTALLED PER DETAIL AT LOCATIONS SPECIFIED. CONTRACTOR SHALL INSTALL ADDITIONAL HARDWOOD MATS AS NECESSARY FOR PROTECTION IN WET OR HEAVY TRAFFIC AREAS.
3. CONTRACTOR SHALL PROTECT PAVED SURFACES FROM DAMAGE DURING MOVEMENT OF CONSTRUCTION EQUIPMENT ON AND OFF SITE. ALL DAMAGE TO BE REPLACED IN-AND PRIOR TO DEMOBILIZATION.
4. WITHIN AREAS ADJACENT TO ACTIVE STREAM CHANNELS, TREAT DISTURBED AREAS DAILY WITH TEMPORARY SEED AND A MINIMUM OF 2" OF WOODCHIPS OR HARDWOOD MULCH STABILIZATION. OVERSEED WITH PERMANENT SEED PER THE PLANTING SCHEDULE.
5. INSTALL SOIL STABILIZATION MATTING PER CONSTRUCTION DETAILS AND ON ALL GRADED STREAMBANKS WITH SLOPES 3:1 OR GREATER AS AREAS ARE COMPLETED AND APPROVED BY THE INSPECTOR AND ENGINEER/DESIGNATED SPECIALIST. ALL OTHER DISTURBED AREAS AWAY FROM STREAM CHANNELS SHALL BE STABILIZED PER STANDARD OF WITHIN THREE CALENDAR DAYS.
6. AS SITE CONDITIONS AND PROPOSED ACCESS DICTATES, THE CONTRACTOR SHALL INSTALL A STREAM DIVERSION (PUMP AROUND PRACTICE AND/OR CLEAR WATER DIVERSION) WITHIN THE CHANNEL TO MAINTAIN A DRY ACTIVE WORK AREA(S). EACH WORK AREA LENGTH SHALL NOT EXCEED WHAT CAN BE COMPLETED IN ONE DAY. STREAM DIVERSION LOCATIONS SHOWN ARE REPRESENTATIVE AND MAY BE ADJUSTED IN THE FIELD TO ACHIEVE DRY WORK AREA(S).
7. WHEN STREAM DIVERSION PRACTICES ARE UTILIZED, THE EXACT LOCATION OF THE PUMPS, HOSES, SEDIMENT DIKES, AND FILTER BAGS MAY BE MODIFIED IN THE FIELD BASED ON EXISTING CONDITIONS. ANY ADJUSTMENTS MUST BE APPROVED BY THE ENGINEER/DESIGNATED SPECIALIST AND SEDIMENT CONTROL INSPECTOR.
8. WITHIN THE LOD, GRADING LIMITS AND CONSTRUCTION ACCESS ROUTES MAY BE ADJUSTED IN THE FIELD TO MINIMIZE IMPACT TO NATURAL RESOURCES WITH APPROVAL FROM THE PROJECT ENGINEER/DESIGNATED SPECIALIST.
9. STAGING AND STOCKPILE AREA NOT TO EXCEED 15' IN HEIGHT OR 2:1 SLOPE. STOCKPILES (EXCLUDING STONE, WOODCHIPS/MULCH, WOOD OR CLEAN SAND) MUST BE WRAPPED ON DOWNSLOPE SIDE IN SILT FENCE. IF LOCATED OUTSIDE OF A FORESTED AREA, WITHIN A FORESTED AREA, A FILTER LOG MAY BE USED IN PLACE OF RSF TO PROTECT TREE ROOT ZONES.
10. LONG-TERM STOCKPILE PLACEMENT OF ERODIBLE MATERIAL SHALL BE OUTSIDE THE EXISTING AND PROPOSED 100 WSEL AT DESIGNATED STAGING AND STOCKPILE LOCATIONS. TEMPORARILY STABILIZE ERODIBLE MATERIAL STOCKPILE AS PER THE STABILIZATION SPECIFICATIONS OR COVER THE STOCKPILE WITH PLASTIC TARP AND ANCHOR AT END OF WORK DAY.
11. SHORT-TERM STAGING AND/OR STOCKPILING OF ERODIBLE MATERIALS WITHIN THE 100-YEAR FLOODPLAIN DESIGNATED ON THE PLANS SHALL BE LIMITED TO THE AMOUNT OF MATERIAL THE CONTRACTOR CAN PLACE AND/OR HAUL OFF IN A SINGLE DAY. THE CONTRACTOR SHALL MONITOR THE WEATHER FORECAST AND ADJUST STAGING/STOCKPILE OPERATIONS ACCORDINGLY TO MINIMIZE LOSS OF MATERIAL OR OTHER ADVERSE ENVIRONMENTAL IMPACTS.
12. TEMPORARY STOCKPILE PLACEMENT OF NON-ERODIBLE MATERIAL (SUCH AS WOOD, STONE, WOODCHIPS/MULCH) IS ALLOWED THROUGHOUT THE LOD TO FACILITATE INSTALLATION OF STREAM AND FLOODPLAIN RESTORATION STRUCTURES.
13. UPON COMPLETION OF WORK, ALL WOODCHIPS OR HARDWOOD MULCH USED FOR TEMPORARY STABILIZATION OR CONSTRUCTION ACCESS SHALL BE SPREAD TO A 2" THICKNESS WITHIN DISTURBED SOIL SURFACES AND INCORPORATED INTO THE TOP LAYER OF SOIL PRIOR TO PLANTING.
14. WOODCHIPS OR HARDWOOD MULCH USED FOR STABILIZATION SHALL BE DERIVED FROM FRESH OR AGED HARDWOOD INCLUDING BARK, WOOD FRAGMENTS AND GRINDINGS. WOODCHIPS AND HARDWOOD MULCH SHALL BE FREE OF LEAVES, VINES INCLUDING POISON IVY, TRASH AND FOREIGN MATTER, AND MAY INCLUDE CHUNKS UP TO 3 INCHES IN ANY DIMENSION.
15. ENTIRE SITE SHALL BE PERMANENTLY STABILIZED IN ACCORDANCE WITH THE PLANTING PLAN AND SCHEDULES PRIOR TO REMOVING SEDIMENT CONTROLS.
16. MULCH ACCESS ROAD MAY BE USED IN PLACE OF STABILIZED CONSTRUCTION ENTRANCE IF APPROVED BY SEDIMENT CONTROL INSPECTOR.
17. ALL PROPOSED WORK OUTSIDE OF THE LOD SHALL BE PERFORMED BY HAND LABOR, MAKING ALL EFFORTS TO MINIMIZE IMPACTS TO WETLANDS AND STREAM CHANNEL. NO EARTH DISTURBANCE ACTIVITIES OUTSIDE OF THE GROUND IMMEDIATELY BELOW THE PROPOSED STRUCTURE IS ALLOWED.

GRADING/CONSTRUCTION NOTES:

1. ALL PROPOSED GRADING IS TO FINISHED GRADE UNLESS NOTED OTHERWISE.
2. CONTRACTOR SHALL PROTECT ALL ADJACENT IMPROVEMENTS (BUILDINGS, ROADWAYS, FENCES, PARKING LOTS, UTILITIES, LANDSCAPING ETC.) FROM DAMAGE AND EROSION. ALL DISTURBED AREAS OFF-SITE SHALL BE RESTORED TO THEIR ORIGINAL CONDITION.
3. WITHIN THE LOD AND LOHW, LOCATIONS OF IN-STREAM STRUCTURES, FLOODPLAIN FEATURES AND GRADING LIMITS MAY BE ADJUSTED IN THE FIELD TO MINIMIZE IMPACT TO NATURAL RESOURCES WITH APPROVAL FROM THE PROJECT ENGINEER/DESIGNATED SPECIALIST. ADDITIONAL WOOD ROUGHNESS ELEMENTS MAY ADDED WITHIN THE LOD AND LOHW AT LOCATIONS DIRECTED BY THE PROJECT ENGINEER/DESIGNATED SPECIALIST BASED ON SITE CONDITIONS AND AVAILABLE MATERIAL.
4. UNUSED WOODY DEBRIS FROM FELLED TREES SHALL BE USED AS IN-STREAM LARGE WOODY DEBRIS (LWD) WITHIN POOL FEATURES AS DIRECTED BY ENGINEER/DESIGNATED SPECIALIST. ADDITIONAL WOODY DEBRIS SHALL BE SCATTERED ACROSS THE FLOODPLAIN, PRIMARILY FOCUSED ALONG CONCENTRATED FLOW PATHS TO INTERRUPT DIRECT DOWN VALLEY DIRECTION OF OVERBANK FLOWS.
5. GRADING PLAN DOES NOT SHOW ALL ELEMENTS OF EACH STRUCTURE. SEE CONSTRUCTION DETAILS AND NOTES FOR INSTALLATION AND DETAIL OF EACH STRUCTURE.
6. SEE EROSION AND SEDIMENT CONTROL SHEETS FOR CONSTRUCTION ACCESS AND SEDIMENT CONTROL MEASURES.
7. IMPORTED FILL MATERIAL MUST BE FREE OF CONTAMINATION LEVELS OF ANY POLLUTANT THAT IS, OR MAY BE CONSIDERED TO REPRESENT, A POSSIBLE HEALTH HAZARD TO THE PUBLIC OR MAY BE DETRIMENTAL TO SURFACE OR GROUND WATER QUALITY, OR WHICH MAY CAUSE DAMAGE TO PROPERTY OR THE DRAINAGE SYSTEM. ALL FILL MATERIAL MUST BE FREE OF HAZARDOUS MATERIALS AND COMPLY WITH ALL APPLICABLE LOCAL AND FEDERAL REGULATIONS.

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MAMACOKE BROOK
OUTFALL CHANNEL
STABILIZATION AND
RESTORATION

GENERAL NOTES (2
OF 2)

PROJECT NO.:	25201.01	SCALE:	NA
SEAL:	BY: EB, TB	CHECK:	DS
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SEQUENCE OF CONSTRUCTION

PRE-CONSTRUCTION:

- 1. NO CONSTRUCTION ACTIVITIES INCLUDING THE INSTALLATION OF EROSION AND SEDIMENT CONTROL MEASURES SHALL BEGIN UNTIL ALL REQUIRED PERMITS HAVE BEEN OBTAINED.
- 2. THE CONTRACTOR SHALL CONTACT SEDIMENT CONTROL INSPECTOR TO SCHEDULE A PRE-CONSTRUCTION MEETING AT LEAST THREE (3) BUSINESS DAYS BEFORE COMMENCEMENT OF A LAND-DISTURBING ACTIVITY
- 3. PRIOR TO THE PRE-CONSTRUCTION MEETING THE CONTRACTOR SHALL:
 - A. THE CONTRACTOR SHALL CALL BEFORE YOU DIG (1-800-922-4455) A MINIMUM OF 48 HOURS PRIOR TO CONSTRUCTION, ALL EXISTING UTILITIES MUST BE MARKED IN THE FIELD PRIOR TO CONSTRUCTION.
 - B. B, THE CONTRACTOR SHALL STAKE OUT THE LIMIT OF DISTURBANCE, DESIGNATE THE STAGING AND STOCKPILE AREAS, ANY ACCESS ROADS AND FLAG ALL TREES WHICH WILL BE PROTECTED AND/OR REMOVED WITHIN THE LIMITS OF DISTURBANCE.
- 4. THE CONTRACTOR SHALL CONDUCT A PRE-CONSTRUCTION MEETING ONSITE WITH OWNER REPRESENTATIVE(S), SEDIMENT CONTROL INSPECTOR, ARCHEOLOGICAL MONITOR, CONSTRUCTION SUPERVISOR, AND THE ENGINEER/DESIGNATED SPECIALIST TO REVIEW THE LIMITS OF DISTURBANCE, CONSTRUCTION ACCESS ROUTE, EROSION AND SEDIMENT CONTROL REQUIREMENTS, UTILITY LOCATIONS, AND THE SEQUENCE OF CONSTRUCTION, THE CONSTRUCTION ACCESS ROUTES AND STAGING/STOCKPILE AREAS MAY BE ADJUSTED IN THE FIELD TO MINIMIZE IMPACT TO NATURAL RESOURCES WITH APPROVAL FROM THE PROJECT ENGINEER/DESIGNATED SPECIALIST AND INSPECTOR. THE PARTICIPANTS WILL ALSO FLAG ANY TREES WITHIN THE LIMITS OF DISTURBANCE WHICH WILL BE PROTECTED, USING TREE PLANKING OR TREE PROTECTION FENCE DETAILS AND/OR REMOVED. THE CONTRACTOR MUST COMPLETE THE PRE-CONSTRUCTION MEETING, E&S INSPECTION, AND TREE PROTECTION INSPECTIONS BEFORE ANY CONSTRUCTION CAN BEGIN.
- 5. CONSTRUCTION SHALL NOT BEGIN ON A PHASE OF WORK UNTIL ALL SEDIMENT AND EROSION CONTROL MEASURES FOR THAT PHASE OF WORK HAVE BEEN INSTALLED AND APPROVED BY THE PROJECT ENGINEER/DESIGNATED SPECIALIST AND THE SEDIMENT CONTROL INSPECTOR, ADDITIONAL LOCATIONS AND TYPES OF THE ESC MEASURES MAY BE DETERMINED AS DEEMED NECESSARY BY THE SEDIMENT CONTROL INSPECTOR,
- 6. SPECIFIC TREES TO BE HARVESTED FOR STREAM RESTORATION STRUCTURES AND TREE PROTECTION MEASURES FOR TREES TO REMAIN SHALL BE DETERMINED AND MARKED IN THE FIELD BY THE DESIGNATED SPECIALIST PER NOTES AND DETAILS.

EROSION AND SEDIMENT CONTROL SETUP:

- 1. FOLLOWING COMPLETION OF PRE-CONSTRUCTION MEETING AND WITH APPROVAL FROM THE INSPECTOR, THE CONTRACTOR SHALL BEGIN INSTALLATION OF EROSION AND SEDIMENT CONTROL MEASURES.
- 2. THE CONTRACTOR SHALL ONLY CLEAR MINIMUM AREA NECESSARY TO INSTALL SEDIMENT CONTROLS, THE STAGING/LAYDOWN AREAS, AND CONSTRUCTION ACCESS. STABILIZATION MEASURES ARE REQUIRED ON THE STAGING/LAYDOWN AREAS AND HEAVY USE AREAS, INCLUDING CONSTRUCTION ACCESS ROAD.
- 3. CONSTRUCTION ACCESS LOCATIONS SHALL BE ESTABLISHED, INCLUDING THE INSTALLATION OF A STABILIZED CONSTRUCTION ENTRANCE AND ASSOCIATED STAGING AND STOCKPILE AREAS. INSTALL CONSTRUCTION ACCESS PATH, HARDWOOD MATS, AS SHOWN (SEE EROSION AND SEDIMENT PLAN AND DETAILS). CONTRACTOR SHALL INSTALL HARDWOOD MATS AT LOCATIONS SHOWN AND AS ADDITIONAL PROTECTION IN WET OR HEAVY TRAFFIC AREAS, RETAIN HARVESTED LOGS, ROOT WADS, AND OTHER WOODY DEBRIS SUITABLE FOR USE AS INSTREAM STRUCTURES AND WOODY DEBRIS PLACEMENT ON-SITE. DO NOT CHIP MATERIALS THAT MEET THE REQUIREMENTS OF ANY WOOD STRUCTURE OR TREATMENT.
- 4. THE CONTRACTOR SHALL INSTALL THE TREE PROTECTION MEASURES (TREE PROTECTION FENCE AND/OR TREE PLANKING) AS AGREED UPON WITH THE DESIGNATED SPECIALIST PER THE NOTES AND DETAILS.
- 5. INSTALL PERIMETER CONTROLS AROUND STAGING AND STOCKPILE AREAS, STOCKPILE PLACEMENT OF ERODIBLE MATERIAL SHALL BE OUTSIDE THE EXISTING AND PROPOSED 100 WSEL AND SURROUNDED ALONG THE PERIMETER WITH SILT FENCE IF LOCATED OUTSIDE OF A FORESTED AREA. WITHIN A FORESTED AREA, A FILTER LOG MAY BE USED AROUND STOCKPILE AREAS IN PLACE OF SILT FENCE TO PROTECT TREE ROOT ZONES, STAGING AND STOCKPILE AREA NOT TO EXCEED 15' IN HEIGHT OR 2:1 SLOPE, BORROW MATERIAL TO BE TAKEN OFF SITE TO A SITE WITH AN APPROVED SEDIMENT AND EROSION CONTROL PLAN, TEMPORARILY STABILIZE STOCKPILE AS PER THE STABILIZATION SPEC OR COVER THE STOCKPILE WITH PLASTIC TARP AND ANCHOR AT THE END OF EACH WORK DAY. STAGING AND STOCKPILING AREAS TO BE PROTECTED USING SAME PROTECTION AND REPLENISHMENT REQUIREMENTS AS MULCH ACCESS ROAD.
- 6. AS SITE CONDITIONS DICTATE: THE CONTRACTOR SHALL INSTALL A STREAM DIVERSION (CLEAR WATER DIVERSION AND/OR PUMP AROUND PRACTICE) WITHIN THE STREAM CHANNEL TO MAINTAIN A DRY ACTIVE WORK AREA(S). EACH WORK AREA LENGTH SHALL NOT EXCEED WHAT CAN BE COMPLETED IN ONE DAY.
- 7. THE SEDIMENT CONTROL INSPECTOR WILL BE NOTIFIED UPON COMPLETION OF THE SEDIMENT CONTROL INSTALLATION. UPON COMPLETION OF CONTROL INSTALLATION AND WITH APPROVAL OF THE SEDIMENT CONTROL INSPECTOR, THE CONTRACTOR MAY BEGIN GRADING OPERATIONS.
- 8. CONSTRUCTION SHALL BE DONE IN ACCORDANCE WITH THE SEQUENCE OF CONSTRUCTION, CONSTRUCTION PLANS AND EROSION AND SEDIMENT CONTROL DETAILS AND NOTES UNLESS OTHERWISE APPROVED BY THE DESIGNATED SPECIALIST/ENGINEER. DO NOT CLEAR AND GRUB THE ENTIRE PROJECT AREA, CLEAR AND GRUB ONLY AS DIRECTED BY THE ENGINEER/DESIGNATED SPECIALIST AND ONLY WHERE CONSTRUCTION ACCESS IS NEEDED, OR CHANNEL CONSTRUCTION IS TAKING PLACE AND CAN BE STABILIZED IN ONE WORKING DAY (IN 250 FT INCREMENTS MAXIMUM).
- 9. MULTIPLE PHASES MAY BE UNDER CONSTRUCTION CONCURRENTLY, OR IN A DIFFERENT PHASE ORDER OR DIRECTION OF WORK THAN LISTED IN THE SEQUENCE WITH APPROVAL FROM THE ENGINEER/DESIGNATED SPECIALIST AND ALL PHASE SEDIMENT CONTROL MEASURES ARE APPROVED. SIDE CHANNELS MAY BE CONSTRUCTED SIMULTANEOUSLY WITH MAIN CHANNEL WORK.
- 10. BEGIN SELECT TREE REMOVAL AND HARVESTING AND NECESSARY CLEARING AND GRUBBING ACTIVITIES PER THE CONSTRUCTION PLANS TO FACILITATE CONSTRUCTION ACCESS TO THE ACTIVE WORK AREA(S). CARE MUST BE TAKEN TO MINIMIZE SITE DISTURBANCE AND UNNECESSARY CLEARING AND GRUBBING. RETAIN HARVESTED LOGS, ROOT WADS, AND OTHER WOODY DEBRIS SUITABLE FOR USE AS INSTREAM STRUCTURES AND WOODY DEBRIS PLACEMENT ON-SITE.
- 11. THE CONTRACTOR SHALL STAKE OUT THE PROPOSED WORK AS SHOWN ON THE PLANS AND STRUCTURE TABLES.
- 12. WITHIN THE LOD AND LOHW, LOCATIONS OF STRUCTURES AND CONSTRUCTION ACCESS ROUTES MAY BE ADJUSTED IN THE FIELD TO MINIMIZE IMPACT TO NATURAL RESOURCES WITH APPROVAL FROM THE ENGINEER/DESIGNATED SPECIALIST, ADDITIONAL WOOD STRUCTURES MAY BE ADDED WITHIN THE LOD AND LOHW AT LOCATIONS DIRECTED BY THE PROJECT ENGINEER/DESIGNATED SPECIALIST BASED ON SITE CONDITIONS AND AVAILABLE MATERIAL.
- 13. FOR ALL ASPECTS OF STREAM WORK AND THROUGHOUT THE TIMEFRAME OF CONSTRUCTION OF THE STREAM IMPROVEMENTS, THE CONTRACTOR SHALL BE RESPONSIBLE FOR ASSURING THAT THE SEDIMENT CONTROL MEASURES ARE FUNCTIONAL ON A DAY TO DAY BASIS, NO DISTURBED AREAS ARE TO BE ALLOWED TO DRAIN DIRECTLY OFF SITE.
- 14. FOLLOWING INITIAL SOIL DISTURBANCE OR RE-DISTURBANCE, PERMANENT OR TEMPORARY STABILIZATION SHALL BE COMPLETED WITHIN:
 - A. THREE CALENDAR DAYS FOR THE SURFACE OF ALL PERIMETER CONTROLS, DIKES, SWALES, DITCHES, PERIMETER SLOPES, AND ALL SLOPES GREATER THAN THREE HORIZONTAL TO ONE VERTICAL (3:1).
 - B. SEVEN DAYS FOR ALL OTHER DISTURBED OR GRADED AREAS ON PROJECT SITE

UPSTREAM RESTORATION REACH - HANDWORK AREA (STATION 1+00 TO 4+25):

- 1. ALL WORK IN THIS REACH SHALL BE PERFORMED BY HAND LABOR ONLY. MAKING ALL EFFORTS TO MINIMIZE IMPACTS TO WETLAND AND STREAM CHANNEL. NO EARTH DISTURBANCE ACTIVITIES, OUTSIDE OF THE GROUND IMMEDIATELY BELOW THE PROPOSED STRUCTURE, IS ALLOWED.
- 2. ALL CONSTRUCTION ACCESS BY FOOT OR ATV SHALL FOLLOW EXISTING TRAILS TO MAXIMUM EXTENT. NO DEWATERING OF CHANNEL IS REQUIRED.
- 3. INSTALL POST ASSISTED LOG STRUCTURES (PALS) AS DEFINED GRADING PLAN AND CONSTRUCTION DETAIL, OR AS DIRECTED BY ENGINEER/DESIGNATED SPECIALIST.
- 4. ONCE REACH IS COMPLETED STABILIZE ACCORDING TO STABILIZATION SEQUENCE BELOW.

MIDDLE RESTORATION REACH (STATION 4+25 TO 11+00):

- 1. ALL CONSTRUCTION ACCESS AND EROSION AND SEDIMENT CONTROL MEASURES SHALL BE IN PLACE AND APPROVED BY THE EROSION AND SEDIMENT CONTROL INSPECTOR AND ENGINEER/DESIGNATED SPECIALIST FOR THIS REACH PRIOR TO BEGINNING STREAM WORK.
- 2. WITH ACTIVE WORK AREA DEWATERED. BEGIN INSTREAM WORK AT THE UPSTREAM OR DOWNSTREAM END, WORKING IN A SINGLE DIRECTION ALONG THE CHANNEL. THE LENGTH OF EACH ACTIVE WORK AREA SHALL NOT EXCEED WHAT CAN BE COMPLETED IN ONE DAY.
- 3. AFTER CHANNEL WORK IS COMPLETED FOR THIS REACH, RESTORE THE CONSTRUCTION ACCESS ROUTE ALONG THE CHANNEL AND OUT TO THE STOCKPILE AREA AND CONSTRUCTION ENTRANCE.

- 4. ONCE REACH IS COMPLETED STABILIZE ACCORDING TO STABILIZATION SEQUENCE BELOW.

DOWNSTREAM RESTORATION REACH - HANDWORK AREA (STATION 11+25 TO 13+75):

- 1. ALL WORK IN THIS REACH SHALL BE PERFORMED BY HAND LABOR ONLY. MAKING ALL EFFORTS TO MINIMIZE IMPACTS TO WETLAND AND STREAM CHANNEL. NO EARTH DISTURBANCE ACTIVITIES, OUTSIDE OF THE GROUND IMMEDIATELY BELOW THE PROPOSED STRUCTURE, IS ALLOWED.
- 2. ALL CONSTRUCTION ACCESS BY FOOT OR ATV SHALL FOLLOW EXISTING TRAILS TO MAXIMUM EXTENT. NO DEWATERING OF CHANNEL IS REQUIRED.
- 3. PERFORM PHRAGMITES REMOVAL TREATMENT.
- 4. INSTALL POST AND WATTLES AS DEFINED GRADING PLAN AND CONSTRUCTION DETAIL, OR AS DIRECTED BY ENGINEER/DESIGNATED SPECIALIST.
- 5. ONCE REACH IS COMPLETED STABILIZE ACCORDING TO STABILIZATION SEQUENCE BELOW.

STABILIZATION (CONCURRENT WITH CONSTRUCTION OF ALL CONSTRUCTION PHASES):

- 1. WITHIN AREAS ADJACENT TO ACTIVE STREAM CHANNELS, TREAT DISTURBED AREAS DAILY WITH TEMPORARY SEED AND A MINIMUM OF 2" ZF WOODCHIPS OR HARDWOOD MULCH STABILIZATION.
- 2. UPON COMPLETION OF WORK, ALL WOODCHIPS OR HARDWOOD MULCH USED FOR TEMPORARY STABILIZATION OR CONSTRUCTION ACCESS SHALL BE SPREAD TO A 2" THICKNESS WITHIN DISTURBED SOIL SURFACES AND INCORPORATED INTO THE TOP LAYER OF SOIL PRIOR TO PLANTING.
- 3. OVERSEED COMPLETED AREAS WITH PERMANENT SEED PER THE PLANTING SCHEDULE AND INSTALL SOIL STABILIZATION MATTING PER DETAIL AS COMPLETED AREAS ARE APPROVED BY THE INSPECTOR AND ENGINEER/DESIGNATED SPECIALIST.
- 4. SOIL STABILIZATION MATTING SHALL BE INSTALLED PER THE CONSTRUCTION DETAILS AND ON ALL GRADED STREAM BANKS WITH SLOPES 3:1 OR GREATER (SEE TYPICAL POOL GRADING DETAIL). ALL OTHER DISTURBED AREAS AWAY FROM STREAM CHANNELS SHALL BE STABILIZED PER CONNECTICUT STANDARD.
- 5. IF WITHIN THE APPROPRIATE TIME OF YEAR FOR THE PLANT MATERIAL TYPE (PLUGS, LIVE STAKE, BARE ROOT, CONTAINER), CONTRACTOR MAY INSTALL TREE, SHRUB AND HERBACEOUS MATERIAL AT THIS TIME PER THE PLANTING PLAN AND DETAILS.
- 6. ONCE PHASE IS TEMPORARILY STABILIZED PER THE CONNECTICUT STANDARDS, AND WITH THE INSPECTOR'S APPROVAL, REMOVE ALL SEDIMENT CONTROL DEVICES NOT NEEDED FOR SUBSEQUENT PHASES.
- 7. WHEN CONSTRUCTION WITHIN PROJECT AREA IS COMPLETE, STABILIZE ANY REMAINING DISTURBED AREAS AND FINALIZE SEEDING ON ALL REMAINING AREAS NOT PREVIOUSLY ADDRESSED.

LANDSCAPING:

- 1. COMPLETE INSTALLATION OF ALL REMAINING TREE, SHRUB AND HERBACEOUS MATERIAL NOT INSTALLED PREVIOUSLY UNDER COMPLETED PHASES PER THE PLANTING PLAN AND DETAILS.

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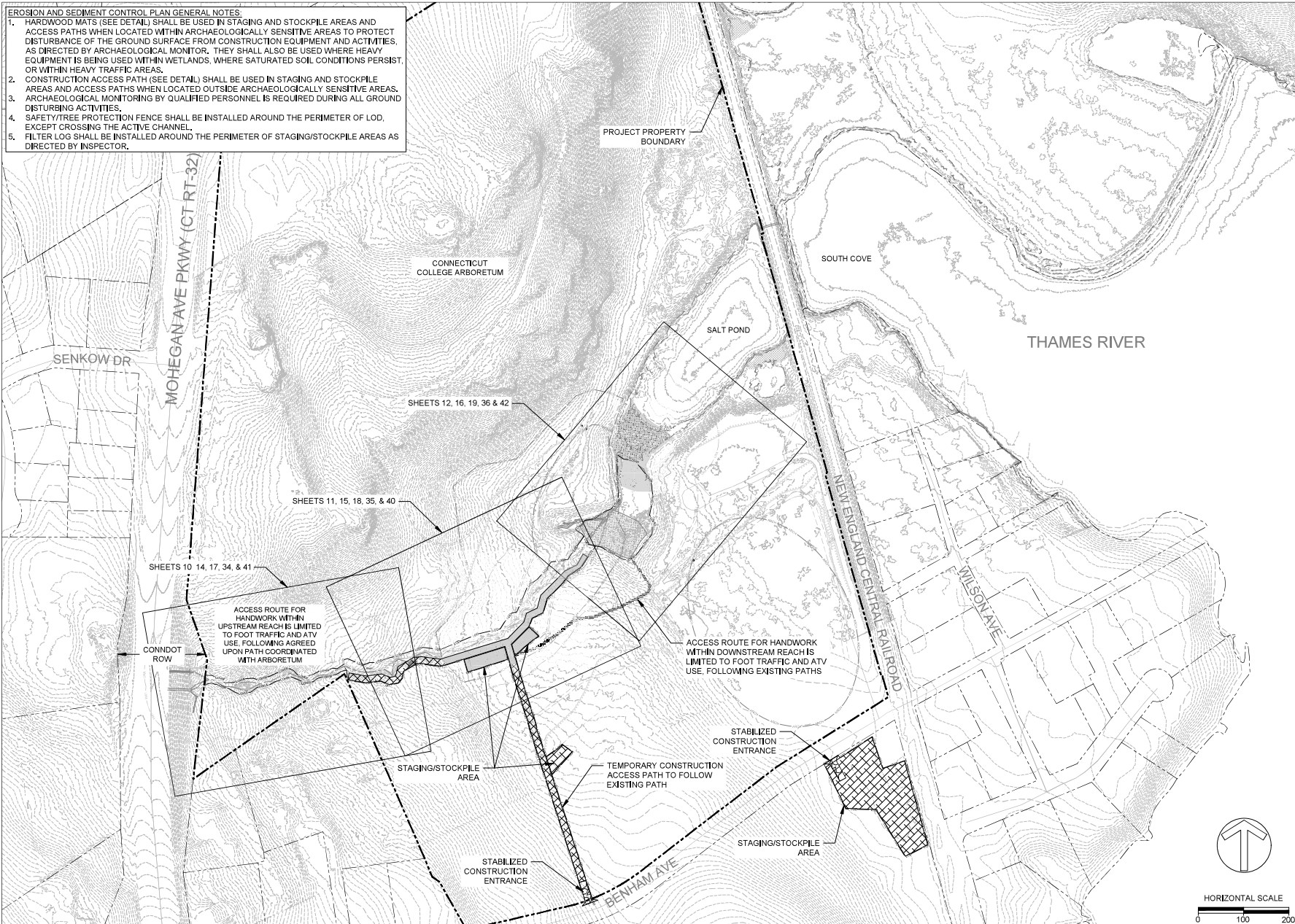
Restore the Earth & Inspire Ecological Stewardship

MAMACOKE BROOK
OUTFALL CHANNEL
STABILIZATION AND
RESTORATION

SEQUENCE OF
CONSTRUCTION

PROJECT NO.:	25201.01	SCALE:	NA
SEAL:	BY: EB, TB	CHECK:	DS
	DWG. NO.:		
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- EROSION AND SEDIMENT CONTROL PLAN GENERAL NOTES:**
1. HARDWOOD MATS (SEE DETAIL) SHALL BE USED IN STAGING AND STOCKPILE AREAS AND ACCESS PATHS WHEN LOCATED WITHIN ARCHAEOLOGICALLY SENSITIVE AREAS TO PROTECT DISTURBANCE OF THE GROUND SURFACE FROM CONSTRUCTION EQUIPMENT AND ACTIVITIES, AS DIRECTED BY ARCHAEOLOGICAL MONITOR. THEY SHALL ALSO BE USED WHERE HEAVY EQUIPMENT IS BEING USED WITHIN WETLANDS, WHERE SATURATED SOIL CONDITIONS PERSIST, OR WITHIN HEAVY TRAFFIC AREAS.
 2. CONSTRUCTION ACCESS PATH (SEE DETAIL) SHALL BE USED IN STAGING AND STOCKPILE AREAS AND ACCESS PATHS WHEN LOCATED OUTSIDE ARCHAEOLOGICALLY SENSITIVE AREAS.
 3. ARCHAEOLOGICAL MONITORING BY QUALIFIED PERSONNEL IS REQUIRED DURING ALL GROUND DISTURBING ACTIVITIES.
 4. SAFETY/TREE PROTECTION FENCE SHALL BE INSTALLED AROUND THE PERIMETER OF LOD, EXCEPT CROSSING THE ACTIVE CHANNEL.
 5. FILTER LOG SHALL BE INSTALLED AROUND THE PERIMETER OF STAGING/STOCKPILE AREAS AS DIRECTED BY INSPECTOR.



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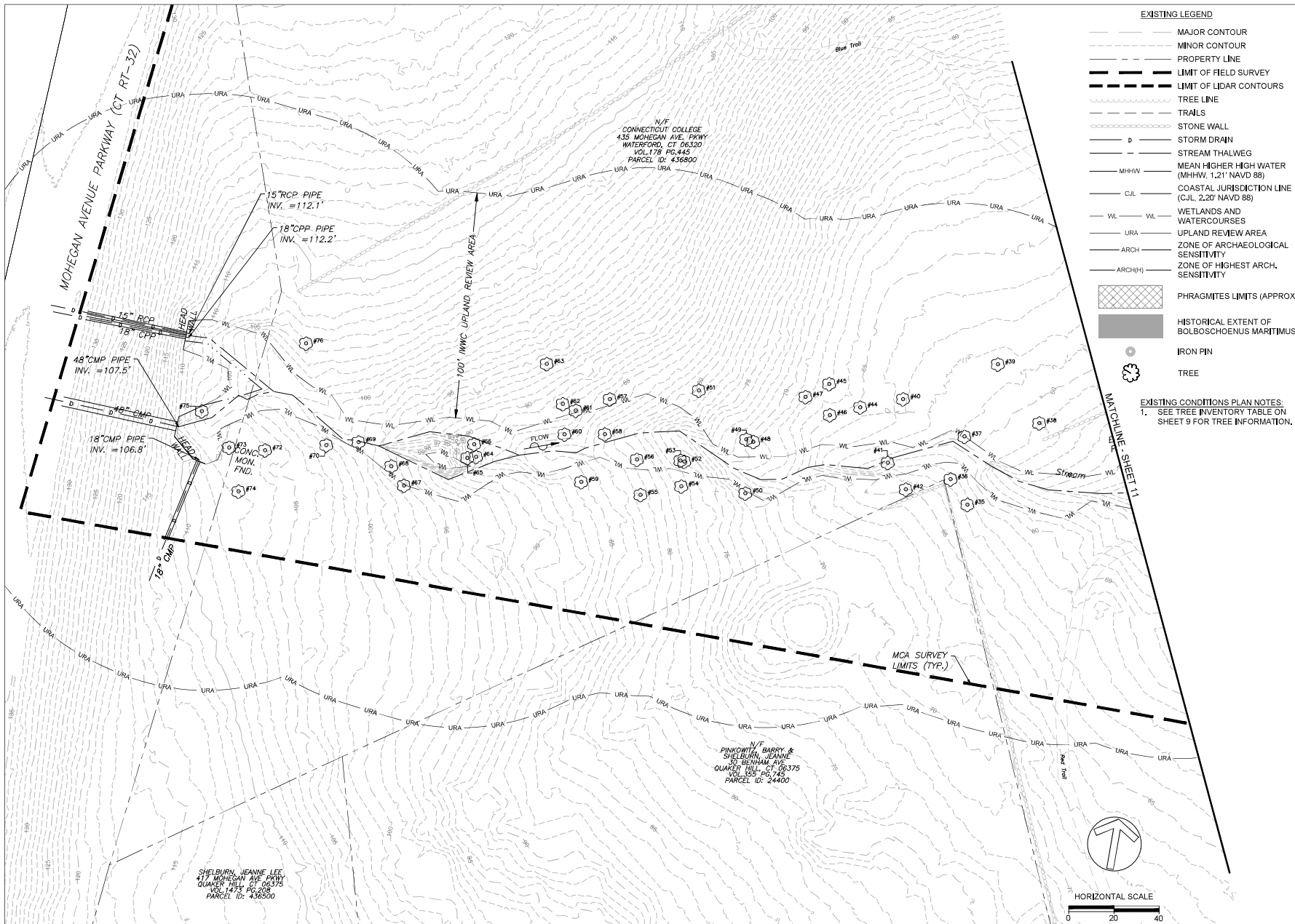
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MAMACOKE BROOK OUTFALL CHANNEL STABILIZATION AND RESTORATION

SHEET LAYOUT

PROJECT NO.:	25201.01	SCALE:	1" = 100'
DESIGNED BY:	EB, TB	CHECKED BY:	DS
DRAWN BY:			
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EXISTING LEGEND

- MAJOR CONTOUR
- MINOR CONTOUR
- PROPERTY LINE
- LIMIT OF FIELD SURVEY
- LIMIT OF LIDAR CONTOURS
- TREE LINE
- TRAILS
- STONE WALL
- STORM DRAIN
- STREAM THALWEG
- MEAN HIGHER HIGH WATER (MHHW, 1.21' NAVD 88)
- CJL COASTAL JURISDICTION LINE (CJL, 2.20' NAVD 88)
- WV WETLANDS AND WATERCOURSES
- URA UPLAND REVIEW AREA
- ARCH ZONE OF ARCHAEOLOGICAL SENSITIVITY
- ARCH(H) ZONE OF HIGHEST ARCH. SENSITIVITY
- PHRAGMITES LIMITS (APPROX)
- HISTORICAL EXTENT OF BOLBOSCHOENUS MARITIMUS
- IRON PIN
- TREE

EXISTING CONDITIONS PLAN NOTES:

1. SEE TREE INVENTORY TABLE ON SHEET 9 FOR TREE INFORMATION.

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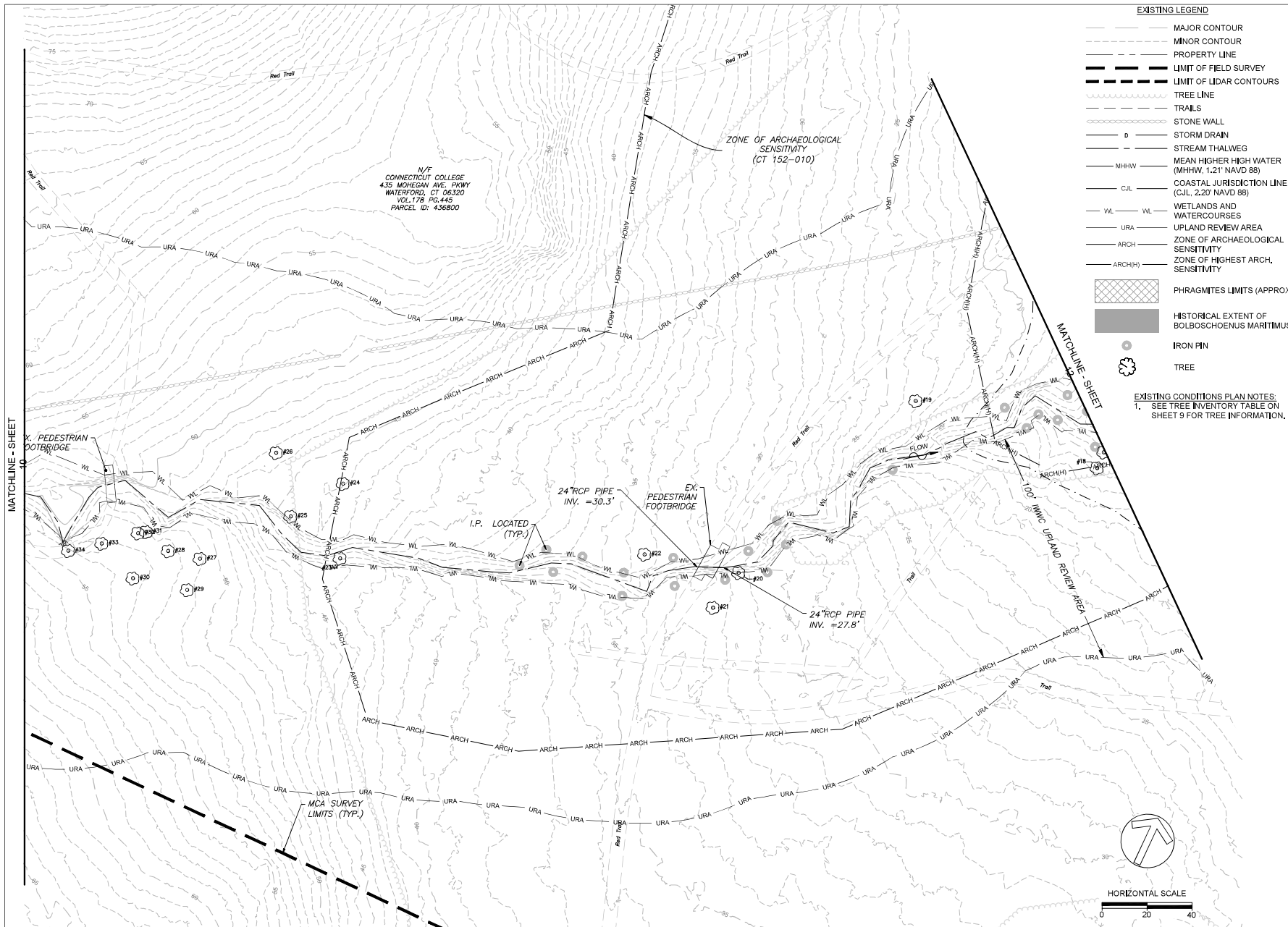
EXISTING CONDITIONS

PROJECT NO.: 25201.01 SCALE: 1" = 20'

SAL: BY: EB, TB CHECK: DS

DWG. NO.:

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EXISTING LEGEND

- MAJOR CONTOUR
- MINOR CONTOUR
- PROPERTY LINE
- LIMIT OF FIELD SURVEY
- LIMIT OF LIDAR CONTOURS
- TREE LINE
- TRAILS
- STONE WALL
- STORM DRAIN
- STREAM THALWEG
- MEAN HIGHER HIGH WATER (MHHW, 1.21' NAVD 88)
- CJL (CJL, 2.20' NAVD 88)
- WETLANDS AND WATERCOURSES
- UR (UPLAND REVIEW AREA)
- ARCH (ZONE OF ARCHAEOLOGICAL SENSITIVITY)
- ARCH(H) (ZONE OF HIGHEST ARCH. SENSITIVITY)
- PHRAGMITES LIMITS (APPROX)
- HISTORICAL EXTENT OF BOLBOSCHOENUS MARITIMUS
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- TREE

EXISTING CONDITIONS PLAN NOTES:
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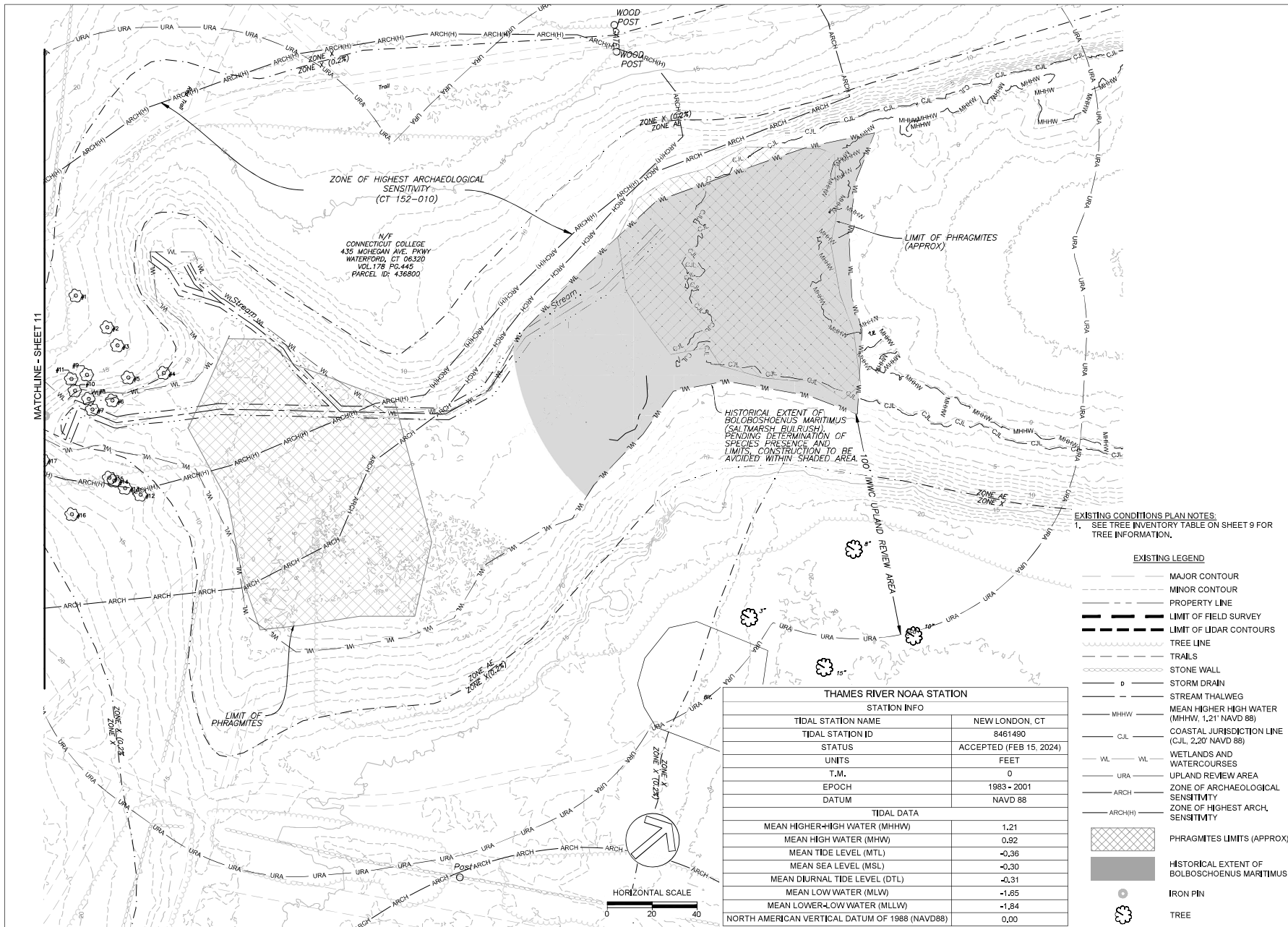
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MAMACOCKE BROOK OUTFALL CHANNEL STABILIZATION AND RESTORATION

EXISTING CONDITIONS

PROJECT NO.:	25201.01	SCALE:	1" = 20'
BY:	EB, TB	CHECK:	DS
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2/6/2025 M:\CAD\Projects\2025\01 connecticut college mamacoke stream restoration\CAD\Plan\p001.mxd

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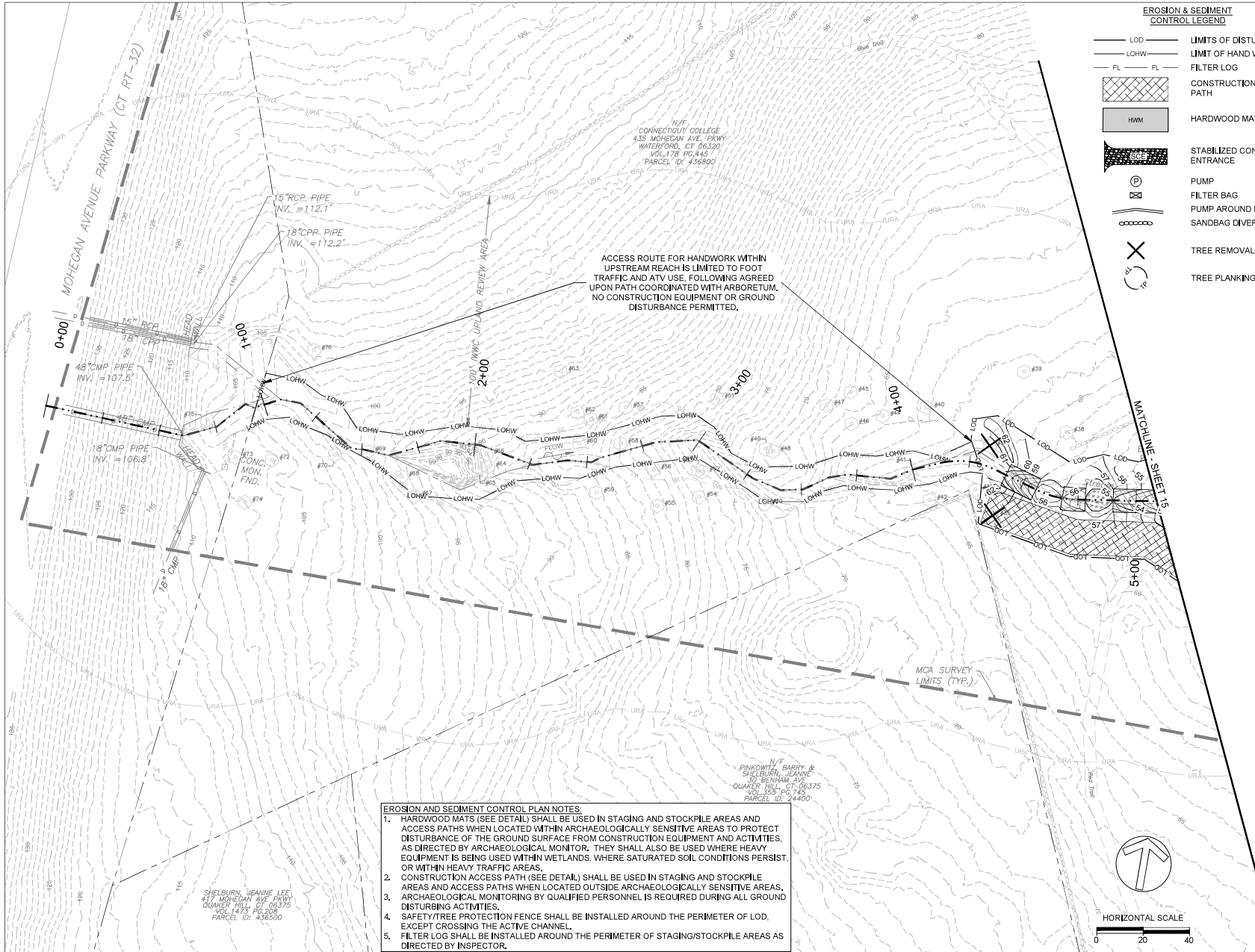
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MAMACOCKE BROOK OUTFALL CHANNEL STABILIZATION AND RESTORATION

EXISTING CONDITIONS

PROJECT NO.: 25201.01 SCALE: 1" = 20'

SAL: BY: EB, TB CHECK: DS
 DWG NO.: 12 OF 42



EROSION & SEDIMENT CONTROL LEGEND	
LOD	LIMITS OF DISTURBANCE
LOHW	LIMIT OF HAND WORK
FL	FILTER LOG
HWM	HARDWOOD MATS
SCE	STABILIZED CONSTRUCTION ENTRANCE
P	PUMP
FB	FILTER BAG
PAP	PUMP AROUND PRACTICE
SD	SANDBAG DIVERSION
TR	TREE REMOVAL
TP	TREE PLANTING

- EROSION AND SEDIMENT CONTROL PLAN NOTES:**
1. HARDWOOD MATS (SEE DETAIL) SHALL BE USED IN STAGING AND STOCKPILE AREAS AND ACCESS PATHS WHEN LOCATED WITHIN ARCHAEOLOGICALLY SENSITIVE AREAS TO PROTECT DISTURBANCE OF THE GROUND SURFACE FROM CONSTRUCTION EQUIPMENT AND ACTIVITIES, AS DIRECTED BY ARCHAEOLOGICAL MONITOR. THEY SHALL ALSO BE USED WHERE HEAVY EQUIPMENT IS BEING USED WITHIN WETLANDS, WHERE SATURATED SOIL CONDITIONS PERSIST, OR WITHIN HEAVY TRAFFIC AREAS.
 2. CONSTRUCTION ACCESS PATH (SEE DETAIL) SHALL BE USED IN STAGING AND STOCKPILE AREAS AND ACCESS PATHS WHEN LOCATED OUTSIDE ARCHAEOLOGICALLY SENSITIVE AREAS.
 3. ARCHAEOLOGICAL MONITORING BY QUALIFIED PERSONNEL IS REQUIRED DURING ALL GROUND DISTURBING ACTIVITIES.
 4. SAFETY/TREE PROTECTION FENCE SHALL BE INSTALLED AROUND THE PERIMETER OF LOD, EXCEPT CROSSING THE ACTIVE CHANNEL.
 5. FILTER LOG SHALL BE INSTALLED AROUND THE PERIMETER OF STAGING/STOCKPILE AREAS AS DIRECTED BY INSPECTOR.

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MAMACOCKE BROOK
OUTFALL CHANNEL
STABILIZATION AND
RESTORATION

TITLE

EROSION AND
SEDIMENT CONTROL

PROJECT NO.: 25201.01 SCALE: 1" = 20'

SEAL: BY: EB, TB CHECK: DS

DWG. NO.: 14 OF 42

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EROSION AND SEDIMENT CONTROL PLAN NOTES:

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2. CONSTRUCTION ACCESS PATH (SEE DETAIL) SHALL BE USED IN STAGING AND STOCKPILE AREAS AND ACCESS PATHS WHEN LOCATED OUTSIDE ARCHAEOLOGICALLY SENSITIVE AREAS, ARCHAEOLOGICAL MONITORING BY QUALIFIED PERSONNEL IS REQUIRED DURING ALL GROUND DISTURBING ACTIVITIES.
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EROSION & SEDIMENT CONTROL LEGEND

- LOD LIMITS OF DISTURBANCE
- LOHW LIMIT OF HAND WORK
- FL FILTER LOG
- HWM CONSTRUCTION ACCESS PATH
- HWM HARDWOOD MATS
- STC STABILIZED CONSTRUCTION ENTRANCE
- P PUMP
- FB FILTER BAG
- PAP PUMP AROUND PRACTICE
- SDB SANDBAG DIVERSION
- TR TREE REMOVAL
- TP TREE PLANTING

MATCHLINE - SHEET 14

MATCHLINE - SHEET 16

PUMP AROUND PRACTICE (TYP.), USED AS NEEDED DURING RUN-OFF EVENTS

PR. SANDBAGS (TYP.)

STAGING/STOCKPILE AREA

STAGING/STOCKPILE AREA

ACCESS ROUTE FOR HANDWORK WITHIN DOWNSTREAM REACH IS LIMITED TO FOOT TRAFFIC AND ATV USE, FOLLOWING EXISTING PATHS. NO CONSTRUCTION EQUIPMENT OR GROUND DISTURBANCE PERMITTED.

ACCESS AND STAGING AREA OFF BENHAM AVENUE, SEE SHEET LAYOUT (SHEET 9)

MCA SURVEY LIMITS (TYP.)

HORIZONTAL SCALE



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MAMACOKE BROOK OUTFALL CHANNEL STABILIZATION AND RESTORATION

EROSION AND SEDIMENT CONTROL

PROJECT NO.: 25201.01 SCALE: 1" = 20'

BY: EB, TB CHECK: DS

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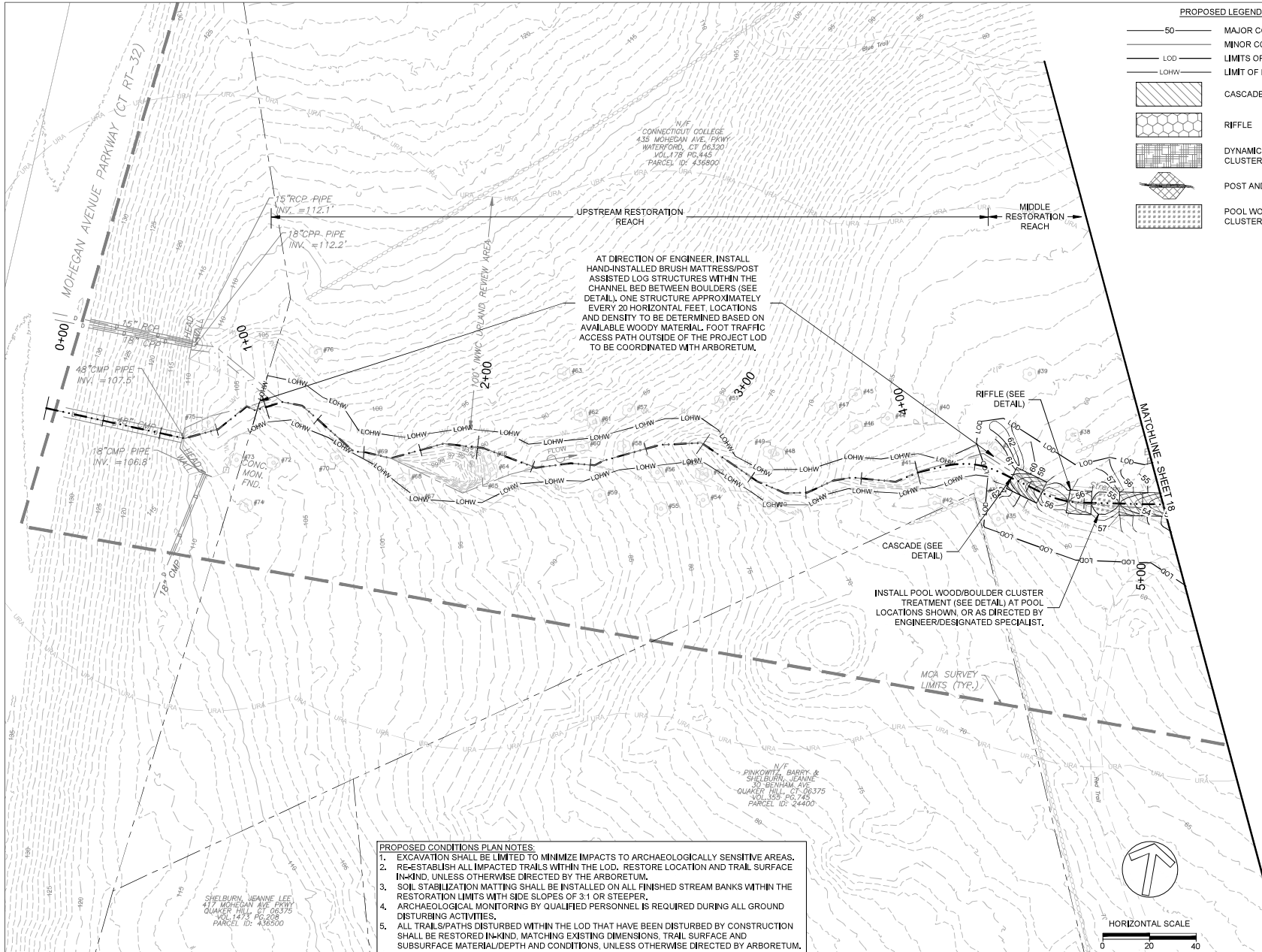
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TITLE: EROSION AND SEDIMENT CONTROL

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PROPOSED LEGEND	
	MAJOR CONTOUR
	MINOR CONTOUR
	LIMITS OF DISTURBANCE
	LIMIT OF HAND WORK
	CASCADE
	RIFFLE
	DYNAMIC BOULDER CLUSTER/WOODY COMPLEX
	POST AND WATTLE
	POOL WOOD/BOULDER CLUSTER TREATMENT

- PROPOSED CONDITIONS PLAN NOTES:**
1. EXCAVATION SHALL BE LIMITED TO MINIMIZE IMPACTS TO ARCHAEOLOGICALLY SENSITIVE AREAS.
 2. RE-ESTABLISH ALL IMPACTED TRAILS WITHIN THE LOD. RESTORE LOCATION AND TRAIL SURFACE IN-KIND, UNLESS OTHERWISE DIRECTED BY THE ARBORETUM.
 3. SOIL STABILIZATION MATTING SHALL BE INSTALLED ON ALL FINISHED STREAM BANKS WITHIN THE RESTORATION LIMITS WITH SIDE SLOPES OF 3:1 OR STEEPER.
 4. ARCHAEOLOGICAL MONITORING BY QUALIFIED PERSONNEL IS REQUIRED DURING ALL GROUND DISTURBING ACTIVITIES.
 5. ALL TRAIL/SIPATHS DISTURBED WITHIN THE LOD THAT HAVE BEEN DISTURBED BY CONSTRUCTION SHALL BE RESTORED IN-KIND, MATCHING EXISTING DIMENSIONS, TRAIL SURFACE AND SUBSURFACE MATERIAL/DEPTH AND CONDITIONS, UNLESS OTHERWISE DIRECTED BY ARBORETUM.

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TITLE

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PROPOSED CONDITIONS PLAN NOTES:

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MIDDLE RESTORATION REACH

INSTALL POOL WOOD/BOULDER CLUSTER TREATMENT (SEE DETAIL) AT POOL LOCATIONS SHOWN, OR AS DIRECTED BY ENGINEER/DESIGNATED SPECIALIST.

REMOVE AND DISPOSE OF EXISTING CULVERT AND TIMBER MAT CROSSING.

MODIFY RIFFLE TO FUNCTION AS VEHICULAR ROCK FORD AND REALIGN TRAIL APPROACHES TO MATCH CROSSING LOCATION

INSTALL PEDESTRIAN STEPPING BOULDER CROSSING WITHIN RIFFLE FORD TO SPAN THE RESTORED CHANNEL (SEE DETAIL).

REMOVE AND DISPOSE OF EXISTING FOOTBRIDGE.

INSTALL STEPPING BOULDER CROSSING TO SPAN THE RESTORED CHANNEL (SEE DETAIL).

PARTIALLY FILL EXISTING CHANNEL BETWEEN CASCADES WITH DYNAMIC BOULDER CLUSTER/WOODY COMPLEX (SEE DETAIL) TO FORM DYNAMIC REACHES OF THE CHANNEL.

CASCADE (SEE DETAIL)

LOCATED

24" RCP PIPE
INV. = 30.3'

24" RCP PIPE
INV. = 27.8'

ACCESS ROUTE FOR HANDWORK WITHIN DOWNSTREAM REACHS LIMITED TO FOOT TRAFFIC AND ATV USE, FOLLOWING EXISTING PATHS. NO CONSTRUCTION EQUIPMENT OR GROUND DISTURBANCE PERMITTED.

ACCESS AND STAGING AREA OFF BENHAM AVENUE, SEE SHEET LAYOUT (SHEET 8)

MCA SURVEY LIMITS (TYP.)

PROPOSED LEGEND

- 50 MAJOR CONTOUR
- LOD MINOR CONTOUR
- LOD LIMITS OF DISTURBANCE
- LOHW LIMIT OF HAND WORK
- CASCADE
- RIFFLE
- DYNAMIC BOULDER CLUSTER/WOODY COMPLEX
- POST AND WATTLE
- POOL WOOD/BOULDER CLUSTER TREATMENT

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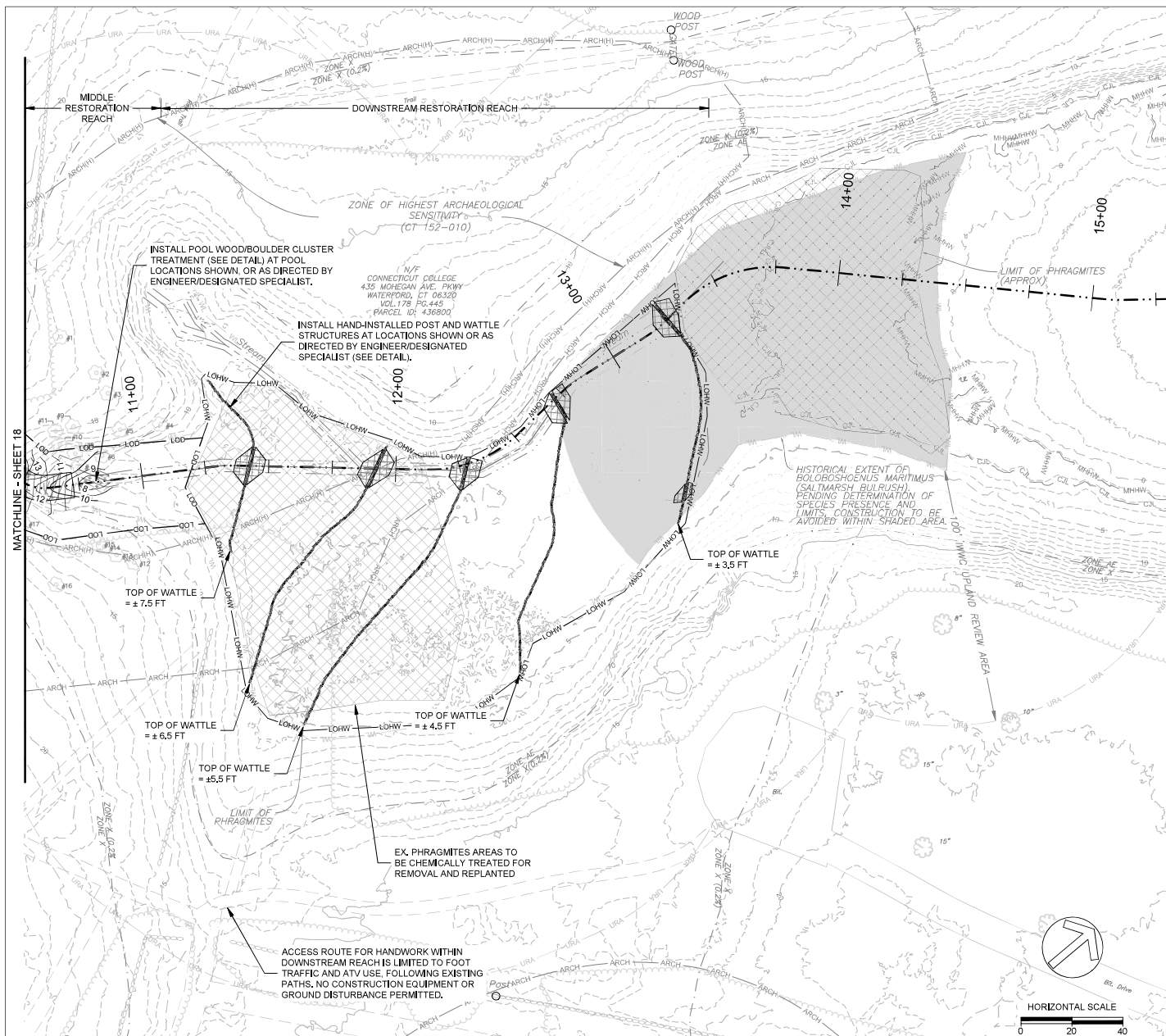
MAMACOKE BROOK OUTFALL CHANNEL STABILIZATION AND RESTORATION

PROPOSED CONDITIONS

PROJECT NO.: 25201.01 SCALE: 1" = 20'

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- PROPOSED CONDITIONS PLAN NOTES:**
1. EXCAVATION SHALL BE LIMITED TO MINIMIZE IMPACTS TO ARCHAEOLOGICALLY SENSITIVE AREAS.
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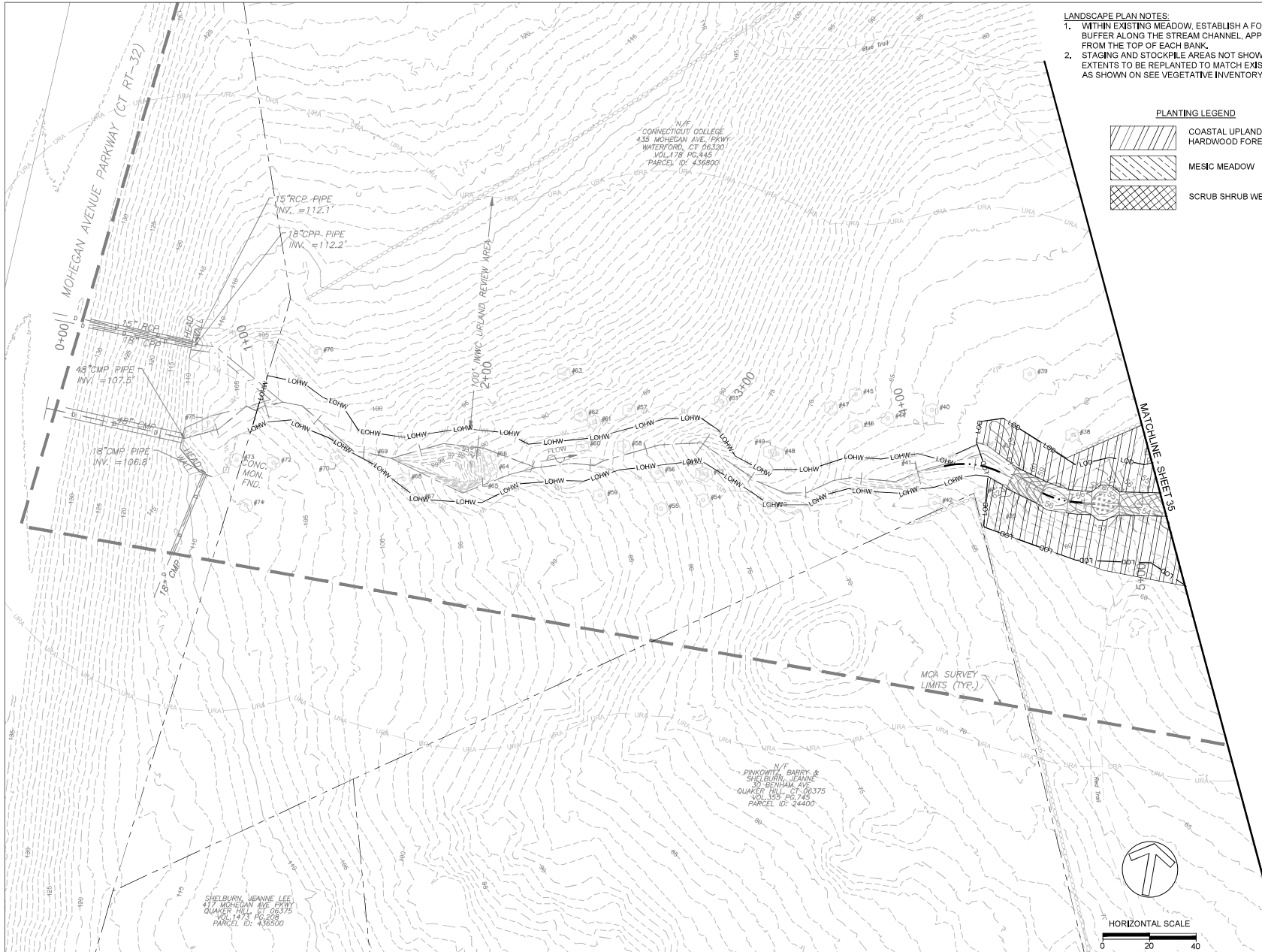
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**PROPOSED
CONDITIONS**

PROJECT NO.: 25201.01 SCALE: 1" = 20'

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- LANDSCAPE PLAN NOTES:**
1. WITHIN EXISTING MEADOW, ESTABLISH A FORESTED RIPARIAN BUFFER ALONG THE STREAM CHANNEL, APPROXIMATE 25' FROM THE TOP OF EACH BANK.
 2. STAGING AND STOCKPILE AREAS NOT SHOWN WITHIN SHEET EXTENTS TO BE REPLANTED TO MATCH EXISTING CONDITION AS SHOWN ON SEE VEGETATIVE INVENTORY SHEET 9.

PLANTING LEGEND

- COASTAL UPLAND MIXED HARDWOOD FOREST
- MESIC MEADOW
- SCRUB SHRUB WETLAND

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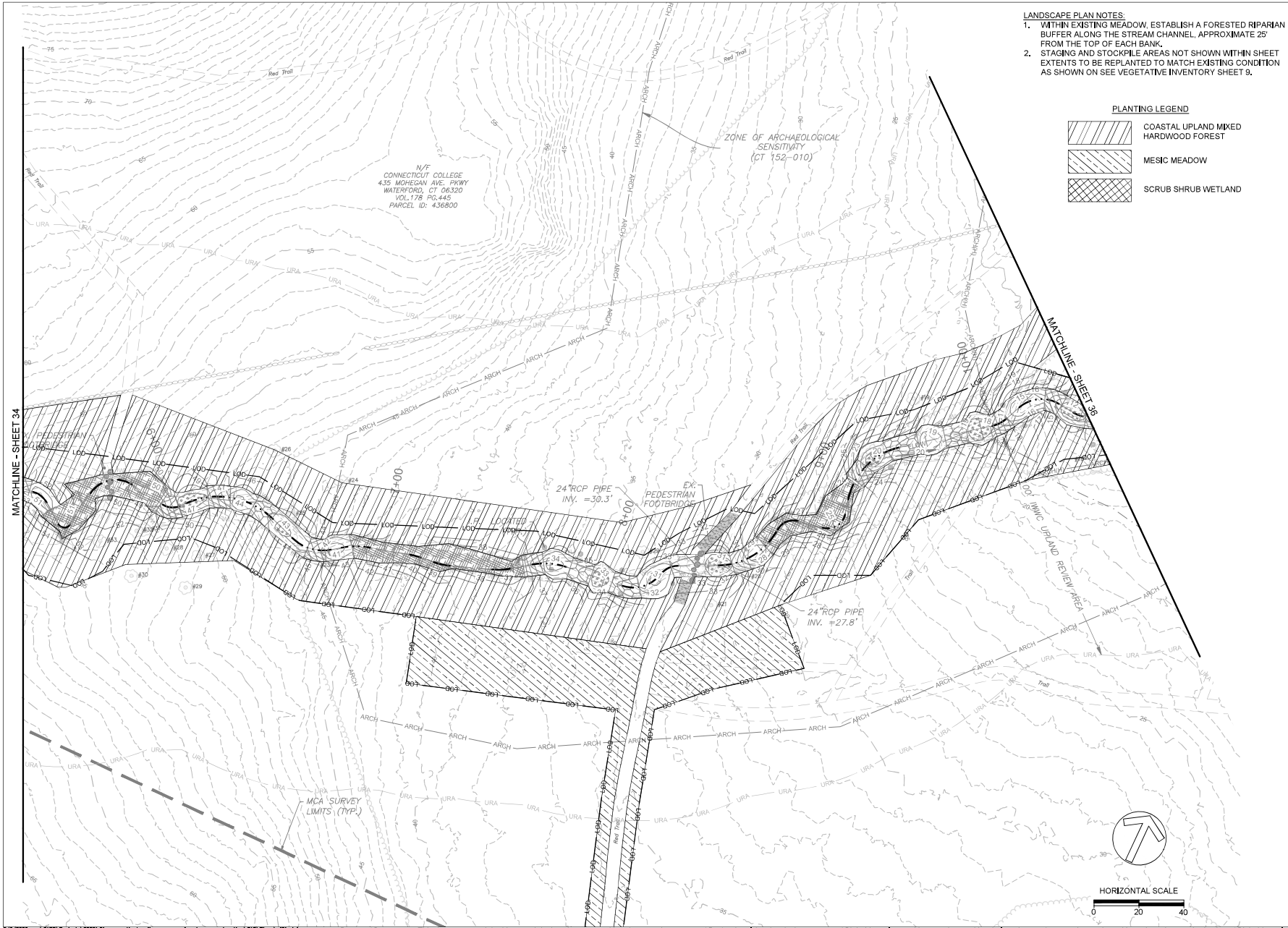
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**MAMACOKE BROOK
OUTFALL CHANNEL
STABILIZATION AND
RESTORATION**

LANDSCAPE PLAN

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- LANDSCAPE PLAN NOTES:**
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PLANTING LEGEND

	COASTAL UPLAND MIXED HARDWOOD FOREST
	MESIC MEADOW
	SCRUB SHRUB WETLAND

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**MAMACOKE BROOK
OUTFALL CHANNEL
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TITLE:
LANDSCAPE PLAN

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COMMON REED (PHRAGMITES AUSTRALIS) MANAGEMENT NOTES:

TREATMENT METHODS

- 1. PHYSICAL REMOVAL OF *P. AUSTRALIS* SHOULD BE USED IN CONJUNCTION WITH CHEMICAL TREATMENTS TO IMPROVE THE OVERALL EFFECTIVENESS OF THE TREATMENT. MOWING, OR ROLLING OF THE PROLONGED GROWING SEASON'S ABOVEGROUND STEMS PRIOR TO CHEMICAL FOLIAR APPLICATION INCREASES THE EXPOSURE OF LIVE PLANT TO ACTIVE CHEMICAL AND REDUCES WASTING CHEMICAL. RAKING UP OR REMOVING DEAD/DOWNED STEMS AND LEAVES OF *P. AUSTRALIS* FROM THE GROUND SURFACE TO EXPOSE BURIED SEEDS OF DESIRABLE NATIVE WETLAND SPECIES.
- 2. CHEMICAL TREATMENT:
 - GLYPHOSATE IS VERY EFFECTIVE AND HAS THE ADVANTAGE OF NO SOIL ACTIVITY. GLYPHOSATE PRODUCTS TYPICALLY AVAILABLE WITH AQUATIC LABELING ARE 'RODEO', 'AQUANEAT', AND 'GLYPHOMATE 41'.
 - IMAZAPYR (E.G., 'POLARIS', 'HABITAT') IS COMMONLY REGARDED AS THE MOST EFFECTIVE HERBICIDE AGAINST *P. AUSTRALIS*. HOWEVER, IMAZAPYR HAS CONSIDERABLE SOIL ACTIVITY, AND APPLICATION NEAR DESIRABLE TREES IS NOT RECOMMENDED.
 - IMPORTANT: OBTAIN THE APPROPRIATE PERMITS REQUIRED TO SPRAY *P. AUSTRALIS* WITH AQUATIC HERBICIDE IN WETLANDS PRIOR TO COMMENCING WORK. TO OBTAIN A PERMIT APPLICATION OR FOR QUESTIONS, PLEASE CONTACT: CONNECTICUT DEPARTMENT OF ENERGY AND ENVIRONMENTAL PROTECTION.

HERBICIDE MIXTURE

- 1. RECOMMENDED TREATMENT MIXTURE IS 0.75 GALLONS (3 QT) GLYPHOSATE OR IMAZAPYR (OR 1.5 QT OF EACH IF USING BOTH) WITH 0.1 GALLONS (13 OZ) SURFACTANT PER ACRE + WATER. WITH A 100-GALLON TANK AND A SPRAY RATE OF 20 GALLONS PER ACRE, THIS IS EQUIVALENT TO 3.75 GALLONS (15 QT) GLYPHOSATE/IMAZAPYR, 0.5 GALLONS SURFACTANT (2 QT), AND 95.75 GALLONS OF WATER.
- 2. EQUIPMENT (BACKPACK/SI-HANDHELD) SPRAYERS SHOULD FOLLOW THE RECOMMENDED PERCENTAGE OF CONCENTRATED HERBICIDE PER GALLON OF TOTAL MIXTURE FOUND ON THE PRODUCTS LABEL. BE SURE TO FOLLOW THE DILUTION AND SURFACTANT RATES PRESCRIBED ON THE PRODUCT LABEL FOR MAXIMUM EFFECTIVENESS. THE USE OF A SURFACTANT ENSURES THAT THE HERBICIDE IS ABSORBED BY THE PLANT STEMS AND LEAVES. ENOUGH HERBICIDE SHOULD BE APPLIED TO WET THE PLANT BUT AVOID RUNOFF. SPRAY COVERAGE SHOULD BE UNIFORM AND COMPLETE. *P. AUSTRALIS* WILL DIE WITHIN 6-8 WEEKS AND SHOULD THEN BE BURNED OR MOWED AND RAKED WHERE SAFELY DONE SO.

CONTROL TIMELINE

- 1. IN YEAR ONE, MOW OR CUT IN JUNE, AT LEAST 1-2 MONTHS BEFORE HERBICIDE APPLICATION, TO PREVENT SEED PRODUCTION, RAKE UP CUT MATERIAL ALONG WITH UNWANTED DEBRIS.
- 2. SPRAY WITH GLYPHOSATE OR IMAZAPYR FROM JULY TO OCTOBER UNTIL FIRST KILLING FROST.
- 3. IF STAND WAS UNMOWED IN SUMMER, OR GREW BACK SIGNIFICANTLY, MOW, CUT, ROLL, OR BURN *P. AUSTRALIS* IN FALL OR WINTER (ALLOWING 1 MONTH FOR HERBICIDE TO TAKE EFFECT FIRST).
- 4. REPEAT FOR 3 CONSECUTIVE YEARS, SPOT TREATING THE REGROWTH, FOLLOWING YEAR 3, MONITOR *P. AUSTRALIS* IN TREATED AREA, AND CONTINUE SPOT TREATING AS NEEDED.

IMPORTANT TREATMENT NOTES

- 1. THE TIMING OF HERBICIDE APPLICATION IS VERY IMPORTANT. IT SHOULD BE APPLIED JUST BEFORE THE PLANT GOES DORMANT, WHEN PLANTS ARE ACTIVELY GROWING AND ARE AT MID- TO FULL-BLOOM (LATE JULY THROUGH OCTOBER BUT BEFORE A KILLING FROST), SO BETWEEN TASSELING AND FIRST FROST, BUT THE BEST HERBICIDE TIMING DEPENDS ON LOCATION AND IS WEATHER-DEPENDENT.
- 2. THE PLANT MUST BE HEALTHY TO THOROUGHLY TAKE UP THE HERBICIDE. AVOID SPRAYING *P. AUSTRALIS* THAT IS DROUGHT-STRESSED. DO NOT MOW *P. AUSTRALIS* WITHIN 1 MONTH OF SPRAYING, BEFORE OR AFTER.
- 3. BUT NOT LIMITED TO, CLEARING, SOIL GRADING, OR EXCAVATION.

TIMING	TREATMENT	PRODUCT RATE	COMMENTS
AT LEAST 8 WEEKS PRIOR TO HERBICIDE APPLICATION	CUTTING, TILLAGE, OR ROLLING, TO KNOCK DOWN STEMS	N/A	THE MOST USEFUL OPERATION WILL KNOCK DOWN THE PERSISTENT, DEAD STEMS AND SET BACK THE CURRENT YEAR'S GROWTH. DEAD STEMS CAN MAKE UP 2/3 OF THE STAND, AND SETTING BACK THE NEW GROWTH IN JUNE WILL RESULT IN A SHORTER, SPARSER STAND TO TREAT LATER IN THE SEASON.
JULY TO OCTOBER	FOLIAR HERBICIDE: 'RODEO' (OR EQUIVALENT) WITH/WITHOUT 'POLARIS' (OR EQUIVALENT)	96 OZ/AC ALONE OR 48 OZ/AC OF EACH IF USING MIX	USE EITHER OF THESE MIXES FOR FOLIAR APPLICATION, WAITING EIGHT WEEKS AFTER A CUTTING TO TREAT, OR TREAT UNDISTURBED <i>P. AUSTRALIS</i> AFTER JULY 1. USE AN AQUATIC SURFACTANT SUCH AS 'CWC 90'. <i>P. AUSTRALIS</i> WILL USUALLY REMAIN GREEN INTO OCTOBER, ALLOWING TIME FOR A FOLLOW-UP APPLICATION AS WELL. 'POLARIS' (IMAZAPYR) HAS SIGNIFICANT SOIL ACTIVITY AND SHOULD NOT BE USED IN CLOSE PROXIMITY TO DESIRABLE TREES. FOR HIGH-VOLUME (SPRAY-TO-WET), MIX ON A 100 GAL/AC BASIS (E.G., 'RODEO' WOULD BE 96 OZ/100 GAL, OR 0.75 PERCENT BY VOLUME).
JULY TO OCTOBER	STEM WIPE WITH 'RODEO' (OR EQUIVALENT)	1:1 MIX WITH WATER	HIGHLY SELECTIVE METHOD TO TREAT SPARSE STANDS. USE A CLOTH GLOVE OVER A CHEMICAL RESISTANT GLOVE. WET THE CLOTH GLOVE WITH SPRAY MIX. GRASP THE STEM AND WIPE ABOUT A 12-INCH BAND. ADD SPRAY COLORANT TO TRACK TREATED STEMS.
AT LEAST 4 WEEKS FOLLOWING TREATMENT AND 8 WEEKS PRIOR TO EARTHWORK	CUTTING, TILLAGE, OR ROLLING, TO KNOCK DOWN STEMS, FOLLOWED BY THE COLLECTION AND REMOVAL OF ALL PHRAGMITES BIOMASS	N/A	THE CUTTING AND REMOVAL OF ALL PHRAGMITES BIOMASS ALLOWS ADEQUATE LIGHT PENETRATION TO BEGIN ACTIVATING THE NATIVE SEEDBANK.

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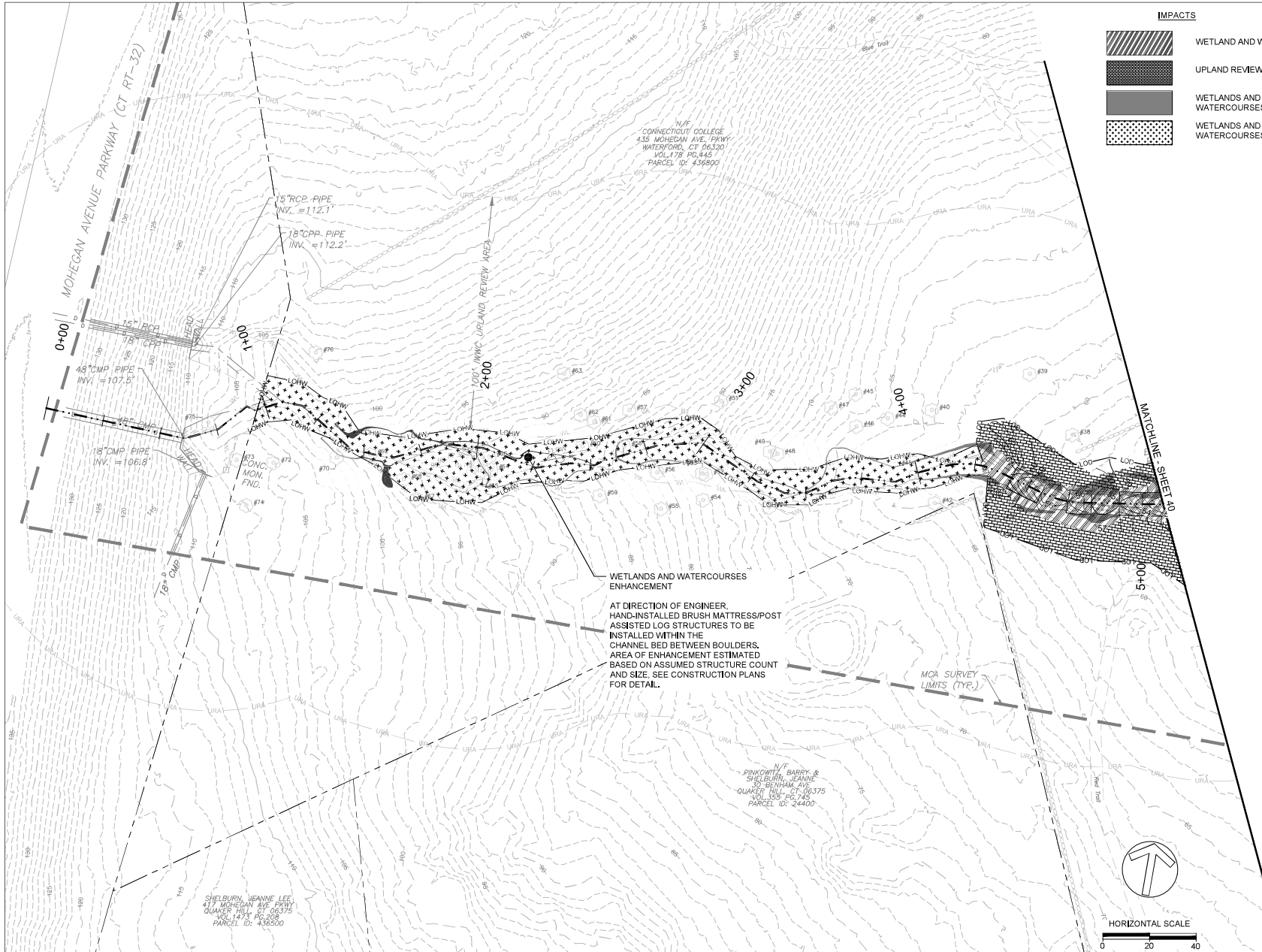
MAMACOKE BROOK
OUTFALL CHANNEL
STABILIZATION AND
RESTORATION

NON NATIVE
INVASIVE CONTROL
NOTES

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IMPACTS	
	WETLAND AND WATERCOURSES
	UPLAND REVIEW AREA
	WETLANDS AND WATERCOURSES CREATION
	WETLANDS AND WATERCOURSES ENHANCEMENT

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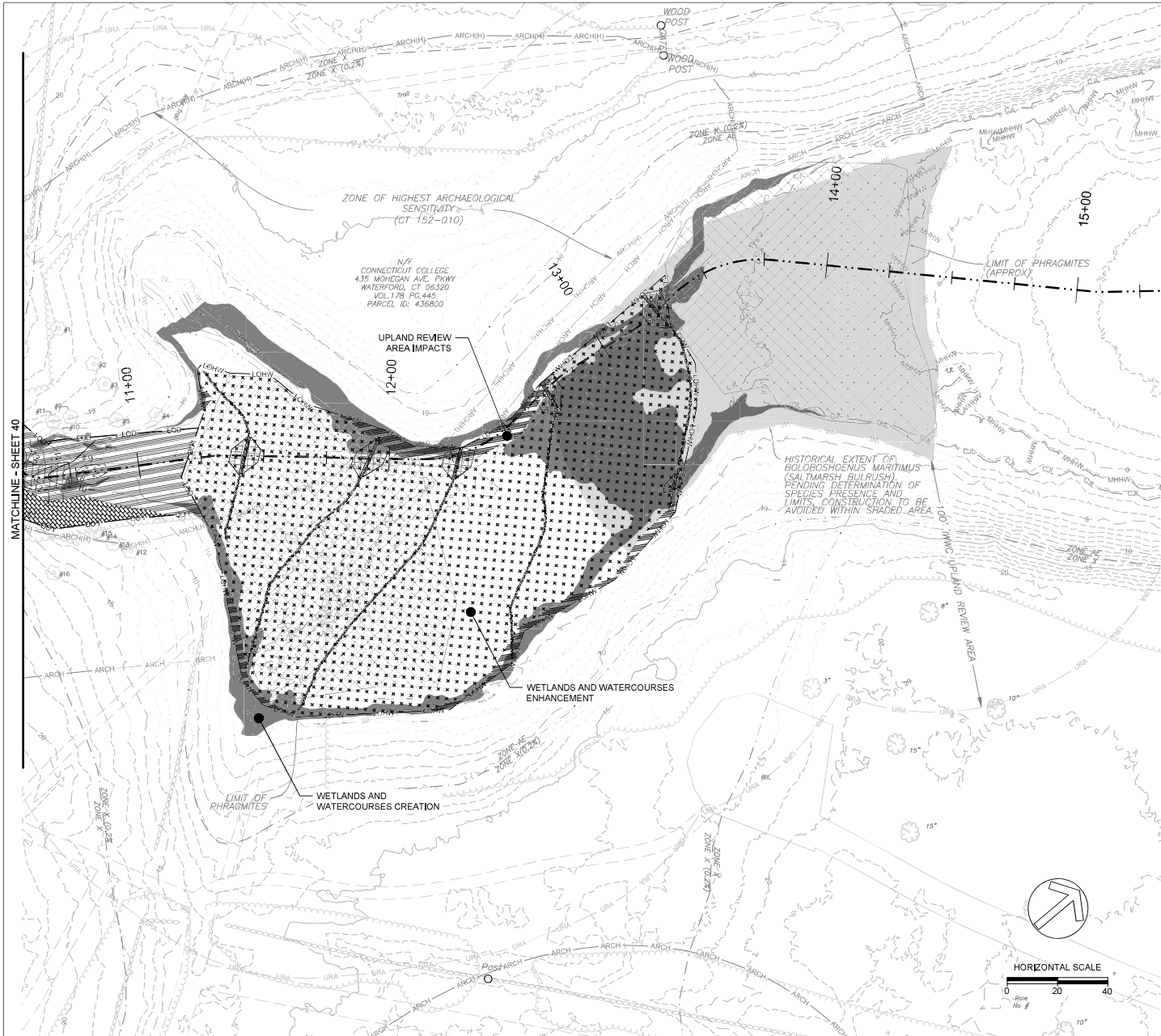
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STABILIZATION AND
RESTORATION**

**PERMANENT
IMPACTS**

PROJECT NO.: 25201.01	SCALE: 1" = 20'
BY: EB, TB	CHECK: DS
DWG. NO.: 41 OF 42	



CLIENT

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DATE: 02/06/2026 ISSUES / REVISIONS

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