

PUBLIC NOTICE

Comment Period Begins: September 24, 2024 Comment Period Ends: October 23, 2024

File Number: NAE-2024-01875

In Reply Refer to: Paula Kullberg, Regulatory Division

Phone: (978) 318-8170

Email: paula.g.kullberg@usace.army.mil

The District Engineer, U.S. Army Corps of Engineers, New England District (USACE), has received a permit application, file number **NAE-2024-01875** to conduct work in waters of the United States from Sporting Goods Properties, Inc. (SGP) – Lake Success Business Park (LSBP). This work is proposed in wetlands adjacent to Roadway Brook and Lake Success, at 615 Asylum Street, Bridgeport, CT 06610. The site coordinates are: Latitude 41.207461 °N Longitude -73.163655 °W.

The LSBP site is a 419-acre, interim status, Resource Conservation and Recovery Act (RCRA) facility located in Bridgeport and Stratford, Connecticut. Of the 419 acres, the portion of the site located within the City of Bridgeport consists of approximately 344 acres, and the portion of the site located within the Town of Stratford consists of approximately 75 acres. The project site was formerly owned and operated by the Remington Arms Company, Inc. (Remington). On August 21, 1990, Remington entered into an Administrative Consent Order (ACO) I-90-1005, pursuant to Section 3008(h) of RCRA, with the EPA for the performance of corrective action activities at the site.

Consulting scientists (AECOM), including a Connecticut Soil Scientist, performed a federal wetland and waterbody delineation of the site, limited to the Project Area and including the six Areas of Ecological Concern (AECs) on-site that contain seven wetland areas requiring remediation (see Table 4 below for the summary of impacted wetlands). The wetlands in the Project Area were identified as Palustrine Forested ("PFO"), Palustrine Scrub-Shrub ("PSS"), Palustrine Emergent ("PEM"), Palustrine Open Water ("POW"), or a combination of these four cover types.

This new project will work towards the site-wide corrective actions and encompass the removal of contaminated sediments from seven of the onsite wetlands and surrounding uplands. The applicant is proposing site-specific procedures for the remediation of constituents of potential ecological concern (COPECs) detected within the six wetland AECs at the site. Remediation of the wetland AECs will include the targeted removal of sediment to achieve the remedial goals set forth in the 2023 Wetlands Remedial Investigation Report.

Onsite testing has been performed to refine the limits of excavation and reduce the amount of ground and wetland impacts; however, these remaining select excavation areas have been identified as containing high levels of copper, lead, mercury, nickel, vanadium, and zinc within the surficial substrate and pore water and require removal as part of the site ACO. Excavations will be limited to those surficial substrates within approximately 1 foot of the soil surface.

Upon completion of the remedial activities, the wetland AECs will be backfilled and restored to pre-construction grades and conditions (see "MITIGATION" below). The project is anticipated to result in no net loss of wetland area.

Table 4-1 represents the extent of excavations proposed as part of the Corrective Measures Implementation Work Plan.

Table 4-1 Proposed Impacts to Waters of the United States

AEC	Wetland Area of Impacts (SF)	Wetland Area of Impacts (ac)	Wetland Impact by Volume (CY)
AEC 1-11	4,540	0.104	169
AEC 9-4	8,910	0.205	543
AEC 10-1	27,864	0.640	1,032
AEC 10-2	16,589	0.381	614
AEC 10-3	5,881	0.135	218
AEC 21	9,856	0.226	365
Total	73,640	1.691	2,941

The work is shown on the enclosed plans titled "DRAFT PROJECT DRAWINGS - CORRECTIVE MEASURES IMPLEMENTATION, WORK PLAN FOR WETLAND AECs, LAKE SUCCESS BUSINESS PARK; FAIRFIELD COUNTY, BRIDGEPORT, CONNECTICUT," on 19 sheets, and dated (last plotted on) "07-10-2024."

MITIGATION

Following excavation, wetlands will be restored to existing grades using screened lake sediment/topsoil from the Success Lake Remediation Project (NAE-2017-00843). The Project will result in a net increase in wetland area as a result of the removal of historic fill through and near wetland areas. These areas of historic fill will be restored to pre-impact grades and restored along with the adjacent wetland areas as part of the site restoration plan.

The Project has taken measures to minimize or avoid adverse effects to waters of the United States including extensive testing of the soils, surface water, and pore water, which has been completed in order to target the removal of sediment. This allows for excavating only areas that are required to be removed to be impacted and limits the need for additional testing in the field. Existing roads will be used to access on-site wetland, and excavation will be performed from existing access whenever possible to limit disturbance to the upland areas surrounding jurisdictional wetlands.

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Perm	its are required pursuant to:
	Section 10 of the Rivers and Harbors Act of 1899
Χ	Section 404 of the Clean Water Act
	Section 103 of the Marine Protection, Research and Sanctuaries Act
	Section 14 of the Rivers and Harbors Act of 1899 (33 USC 408)

The decision whether to issue a permit will be based on an evaluation of the probable impact of the proposed activity on the public interest. That decision will reflect the national concern for both protection and utilization of important resources. The benefit which may reasonably accrue from the proposal must be balanced against its reasonably foreseeable detriments. All factors which may be relevant to the proposal will be considered, including the cumulative effects thereof; among those are: conservation, economics, aesthetics, general environmental concerns, wetlands, cultural value, fish and wildlife values, flood hazards, flood plain value, land use, navigation, shoreline erosion and accretion, recreation, water supply and conservation, water quality, energy needs, safety, food production and, in general, the needs and welfare of the people.

The USACE is soliciting comments from the public; federal, state, and local agencies and officials; Indian Tribes; and other interested parties in order to consider and evaluate the impacts of this proposed activity. The USACE will consider all comments received to determine whether to issue, modify, condition or deny a permit for this proposal. To make this decision, comments are used to assess impacts on endangered species, historic properties, water quality, general environmental effects, and the other public interest factors listed above. Comments are used in the preparation of an environmental assessment and/or an environmental impact statement pursuant to the National Environmental Policy Act. Comments are also used to determine the need for a public hearing and to determine the overall public interest of the proposed activity.

Where the activity involves the discharge of dredged or fill material into waters of the United States or the transportation of dredged material for the purpose of disposing it in ocean waters, the evaluation of the impact of the activity in the public interest will also include application of the guidelines promulgated by the Administrator, U.S Environmental Protection Agency, under authority of Section 404(b) of the Clean Water Act, and/or Section 103 of the Marine Protection Research and Sanctuaries Act of 1972, as amended.

NATIONAL HISTORIC PRESERVATION ACT

Based on our initial review of the proposed project and coordination with the State Historic Preservation Officer and/or Tribal Historic Preservation Officer(s), no historic properties were identified within the permit area and/or the area of potential effects. Additional review and

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consultation to fulfill requirements under Section 106 of the National Historic Preservation Act of 1966, as amended, will be ongoing as part of the permit review process.

ENDANGERED SPECIES CONSULTATION

The USACE has reviewed the application for the potential impact on federally-listed threatened or endangered species and their designated critical habitat pursuant to section 7 of the Endangered Species Act (ESA) as amended. It is our preliminary determination that the proposed activity for which authorization is being sought is designed, situated or will be operated/used in such a manner that it is <u>not likely to adversely affect</u> a listed species or their critical habitat. We are coordinating with the U.S. Fish and Wildlife Service on listed species under their jurisdiction and the ESA consultation will be concluded prior to the final decision.

The following authorizations have been applied for, or have been, or will be obtained:

- (X) Permit, license or assent from State.
- (X) Permit from local wetland agency or conservation commission.
- (X) Water Quality Certification in accordance with Section 401 of the Clean Water Act.

COMMENTS

The Corps of Engineers is soliciting comments from the public; Federal, state, and local agencies and officials; Indian Tribes; and other interested parties in order to consider and evaluate the impacts of this proposed activity. Any comments received will be considered by the Corps of Engineers to determine whether to issue, modify, condition or deny a permit for this proposal. To make this decision, comments are used to assess impacts on endangered species, historic properties, water quality, general environmental effects, and the other public interest factors listed above. Comments are used in the preparation of an Environmental Assessment and/or an Environmental Impact Statement pursuant to the National Environmental Policy Act. Comments are also used to determine the need for a public hearing and to determine the overall public interest of the proposed activity. People submitting comments are advised that all comments received will be available for public review in their entirety and will be considered a matter of public record.

Comments should be submitted in writing by the above date. If you have any questions, please contact **Paula Kullberg**, Regulatory Division, at paula.g.kullberg@usace.army.mil, (978) 318-8170, (800) 343-4789 or (800) 362-4367.

Any person may request, in writing, within the comment period specified in this notice, that a public hearing be held to consider the application. Requests for a public hearing shall specifically state the reasons for holding a public hearing. The USACE holds public hearings for the purpose of obtaining public comments when that is the best means for understanding a wide variety of concerns from a diverse segment of the public.

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The initial determinations made herein will be reviewed in light of facts submitted in response to this notice. Copies of letters of objection will be forwarded to the applicant who will normally be requested to contact objectors directly in an effort to reach an understanding.

THIS NOTICE IS <u>NOT</u> AN AUTHORIZATION TO DO ANY WORK.

Kevin R Kotelly

Kevin R. Kotelly, P.E. Chief, CT/RI Section Regulatory Division

Please contact Ms. Tina Chaisson at <u>bettina.m.chaisson@usace.army.mil</u> or (978) 318-8058 if you would like to be removed from our public notice mailing list.



REGION MAP SCALE: 1"=25"± MILES

PROJECT DRAWINGS CORRECTIVE MEASURES IMPLEMENTATION WORK PLAN FOR WETLAND AECs LAKE SUCCESS BUSINESS PARK FAIRFIELD COUNTY BRIDGEPORT, CONNECTICUT



VICINITY MAP SCALE: 1*=2,000 FEET

	Drawing List	
Sheet No.	Title	
G-01	Title Sheet	
G-02	General Notes	
G-03	Soil Erosion and Sediment Control Plan	
G-04	Soil Erosion and Sediment Control Details	
G-05	Restoration and Planting Plan	
G-06	Restoration and Planting Details	
G-07	Typical Cross-Section Views	
C-01	Site Layout	
C-02	CAMU Layout	
C-03	AEC 1-11 Remediation Plan	
C-04	AEC 9-4 Remediation Plan	
C-05	AEC 10-1 Remediation Plan	
C-06	AEC 10-2 Remediation Plan	
C-07	AEC 10-3 Remediation Plan	
C-08	AEC 21 Remediation Plan	
C-09	AEC 1-11 Restoration Plan	
C-10	AEC 9-4 Restoration Plan	
C-11	AEC 10-1 Restoration Plan	
C-12	AEC 10-2 Restoration Plan	
C-13	AEC 10-3 Restoration Plan	RAFT

AECOM

PROJE

WETLAND AEC CORRECTIVE MEASURES Lake Success Business Park Fairfield County 615 Asylum Street Bridgeport, CT 06610

CLIENT

DuPont Specialty Products USA, LLC

CONSULTANT

AECOM 248 Chapman Road Suite 101 Newark, DE 19702 302 781 5900 tel 302 781 5900 tel www.aecom.com

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VR.	DATE	DESCRIPTION	

KEY PLAN

ROJECT NUMBER

AECOM: 60729082 / DuPont: 607797

SHEET TITLE

SHEET NUMBER

G-01

TOPOGRAPHY AND SURVEY REFERENCES

- 1. BASEMAP IS COMPRISED OF ORIGINAL PHOTOGRAMMETRIC SURVEY COMPILED BY GOLDEN AERIAL SURVEY, INC. WATERBURY, CT ON MARCH 07, 2016, SUPPLEMENTED WITH ADDITIONAL TOPOGRAPHIC SURVEYS COMPILED BY AECOM SURVEY BETWEEN 2017-2023.
- WETLAND DELINEATIONS PREVIOUSLY COMPLETED BY BCM ENGINEERS. INC., AECOM, AND GIBSON ENVIRONMENTAL SERVICES
- WETLAND DELINEATIONS FOR AEC 1-11, AEC 9-4, AEC 10-1, AEC 10-2, AEC 10-3 AND AEC 21 COMPLETED BY AECOM ON APRIL 8 2024
- THE HORIZONTAL AND VERTICAL ACCURACY CONFORMS TO CLASS A-2 & V-2 ACCURACY, LOCATIONS REFER TO THE CONNECTICUT COORDINATE SYSTEM (NAD 83), ELEVATIONS REFER TO THE NORTH AMERICAN VERTICAL DATUM (NAVD 88)
- 5. VERTICAL DATUM IS MEAN SEA LEVEL (MSL).
- 6. ALL ELEVATIONS SHOWN ARE IN MSL UNLESS OTHERWISE SPECIFIED.
- 7. ALL DIMENSIONS ARE IN U.S. SURVEY FEET UNLESS OTHERWISE SPECIFIED.

GENERAL NOTES

- 1. PLAN LOCATIONS AND DIMENSIONS SHALL BE STRICTLY ADHERED TO UNLESS OTHERWISE DIRECTED BY DUPONT OR AUTHORIZED REPRESENTATIVE/ENGINEER (AECOM).
- 2. CONTRACTOR SHALL FIELD VERIFY EXISTING CONDITIONS AND DIMENSIONS PRIOR TO ORDERING AND/OR FARRICATION OF ANY MATERIALS.
- CONTRACTOR SHALL BE SOLELY RESPONSIBLE FOR INITIATING, MAINTAINING AND SUPERVISING SAFETY PRECAUTIONS AND PROGRAMS IN CONNECTION WITH THE WORK.
- CONTRACTOR SHALL SUPERVISE AND DIRECT THE WORK. CONTRACTOR WILL COORDINATE WITH DUPONT/AECOM REGARDING THE MEANS, METHODS, TECHNIQUES, PROCEDURES AND SEQUENCES OF
- 5. CONTRACTOR SHALL PATCH, REPAIR AND FINISH DAMAGED SURFACES CAUSED BY THE WORK, USING MATERIALS OF THE SAME KIND
- FABRICATION AND INSTALLATION OF MATERIALS, FINISHES, ETC. SHALL BE IN ACCORDANCE WITH MANUFACTURER'S WRITTEN INSTRUCTIONS
- 7. ALL CONSTRUCTION TO BE IN ACCORDANCE WITH WITH APPLICABLE OSHA REGULATIONS.
- THE CONTRACTOR SHALL NOTIFY "CALL BEFORE YOU DIG" (DIAL 811 OR 1-800-922-4455) AT LEAST TWO (2) FULL DAYS PRIOR TO ANY INTRUSIVE WORK. THE CONTRACTOR SHALL BE RESPONSIBLE FOR DETERMINING THE EXACT LOCATION OF UNDERGROUND UTILITIES WHETHER SHOWN OR NOT SHOWN ON THE DRAWINGS, AND SHALL BE RESPONSIBLE FOR COSTS INCURRED IN THE REPAIR OF ANY DAMAGE TO SAME RESULTING FROM THE CONTRACTORS WORK ASSOCIATED WITH THIS PROJECT.
- EXISTING TREES AND SHRUBS SHALL BE PROTECTED BY THE CONTRACTOR TO ELIMINATE UNNECESSARY DAMAGE, UNLESS THEY ARE DESIGNATED OR FLAGGED FOR REMOVAL
- 10. THE CONTRACTOR SHALL TAKE NECESSARY PRECAUTIONS TO PROTECT THE EXISTING UTILITIES AND MAINTAIN UNINTERRUPTED SERVICE. ANY DAMAGE TO UTILITIES DUE TO THE CONTRACTOR NEGLIGENCE SHALL BE IMMEDIATELY AND COMPLETELY REPAIRED AT CONTRACTOR'S EXPENSE.
- 11. IT SHALL BE THE CONTRACTOR'S RESPONSIBILITY TO ENSURE THERE IS SUFFICIENT COVER ON PIPING DURING CONSTRUCTION TO PREVENT FAILURE OF PIPES.
- 12. TO THE EXTENT PRACTICAL, EXCAVATIONS SHALL BE KEPT DRY DURING REMEDIATION AND RESTORATION.
- 13. REFUELING OF EQUIPMENT OR THE STORAGE OF FUEL, OIL, OR ANY OTHER HAZARDOUS MATERIALS SHALL NOT OCCUR WITHIN 100 FEET OF WETLAND AREAS.
- 14. WATER IS AVAILABLE TO THE CONTRACTOR FROM A METERED 2.0 INCH DIAMETER CONNECTION LOCATED ADJACENT TO THE PAVED PARKING LOT IN THE CAMU. AN ELECTRICAL SERVICE DROP IS ALSO AVAILABLE TO THE CONTRACTOR IN THE SAME LOCATION FOR AN OFFICE TRAILER IF NEEDED. THE CONTRACTOR SHALL BE RESPONSIBLE FOR OBTAINING ANY ADDITIONAL TEMPORARY UTILITIES.
- 15. THESE PLANS ARE BASED ON INFORMATION AVAILABLE AT THE TIME THEY WERE PREPARED, ACTUAL CONDITIONS DETERMINED LATER MAY VARY, SOUND ENGINEERING JUDGMENT SHOULD BE EXERCISED DURING CONSTRUCTION TO ASSURE THAT THE DESIGN IS COMPATIBLE WITH THE ACTUAL CONDITIONS.

GENERAL CONSTRUCTION SEQUENCE

- MOBILIZE PERSONNEL AND EQUIPMENT TO THE SITE. COMPLETE NECESSARY PERMIT AND "CALL BEFORE YOU DIG" NOTIFICATIONS.
- 2. PROTECT EXISTING MONITORING WELLS. PROTECT MATURE TREES NOT IDENTIFIED FOR REMOVAL.
- INSTALL EROSION & SEDIMENT CONTROLS, STABILIZED CONSTRUCTION ENTRANCES, STORM WATER MANAGEMENT STRUCTURES, AND OTHER TEMPORARY FACILITIES AS SHOWN PRIOR TO ANY SITE
- 4. PERFORM CLEARING AND GRUBBING OF THE AREA AS NEEDED. PLACE VEGETATION CUTTINGS AT DESIGNATED AREAS
- 5. IMPLEMENT ENVIRONMENTAL MONITORING PROGRAMS.
- 6. INSTALL TEMPORARY WATER MANAGEMENT SYSTEMS (SUMPS AND PUMPS) TO SUPPRESS WATER TABLE AS NEEDED. GROUNDWATER PUMPED FROM SUMPS LOCATED OUTSIDE IMPACTED AREAS MAY BE DISCHARGED THROUGH FILTER BAGS AT LOCATIONS APPROVED BY AECOM.
- 7. PUMP AND MAINTAIN DRY WORK AREA, AS NECESSARY, DEWATERING WASTEWATER PUMPED DIRECTLY FROM REMEDIAL EXCAVATIONS SHALL BE DIRECTED TO STORAGE TANKS FOR ON-SITE TREATMENT OR OFF-SITE DISPOSAL AT A PERMITTED FACILITY.
- 8. EXCAVATE AND TRANSPORT WETLAND SOIL/SEDIMENT AND UPLAND SOIL FROM AECS TO DESIGNATED SOIL PLACEMENT AREA (SPA) IN THE CAMU. EXCAVATED MATERIAL WILL BE DIRECTLY LOADED INTO DUMP TRUCKS. NO STOCKPILING OF MATERIAL WILL OCCUR IN THE EXCAVATION AREAS. SEE SHEET G-07 FOR TYPICAL EXCAVATION CROSS-SECTIONS.
- 9. TO THE MAXIMUM EXTENT PRACTICAL, EXISTING VEGETATION WILL BE PRESERVED AND DISTURBED PORTIONS OF THE SITE WILL BE MINIMIZED DURING REMEDIATION.
- 10. COMPOSITE SAMPLES COLLECTED FROM THE WETLAND SOIL/SEDIMENT AND UPLAND SOIL PRIOR TO EXCAVATION WILL DETERMINE HOW THE MATERIAL IS MANAGED IN THE SPA-
- IF THE ANALYTICAL RESULTS INDICATE THAT THE SOIL IS NON-HAZARDOUS THROUGH TOXICITY CHARACTERISTIC LEACHING PROCEDURE (TCLP) ANALYSIS, THE SOIL WILL BE DIRECTLY PLACED, GRADED, AND COMPACTED IN THE SPA IN HORIZONTAL LIFTS NO GREATER THAN 12 INCHES IN DEPTH. THE CONTRACTOR WILL COORDINATE WITH AECOM REGARDING THE LOCATION AND PLACEMENT OF SOIL IN THE SPA
- 10.2. IF THE ANALYTICAL RESULTS OF WASTE CHARACTERIZATION SAMPLES INDICATE THAT THE SOIL IS HAZARDOUS THROUGH TCLP ANALYSIS THE SOIL WILL BE PLACED IN STOCKPILES APPROXIMATELY 500 CUBIC YARDS IN SIZE WITHIN THE SPA. THE SOIL WILL THEN BE STABILIZED BY MECHANICALLY BLENDING AN ADDITIVE SUCH AS ENVIROBLEND® PORTLAND CEMENT, OR SIMILAR REAGENT WITH THE SOIL AND ADDITIONAL COMPOSITE SAMPLES WILL BE COLLECTED. ONCE ANALYTICAL TESTING INDICATES THAT THE SOIL DOES NOT REQUIRE ADDITIONAL STABILIZATION, THE SOIL WILL BE PLACED IN SUCCESSIVE HORIZONTAL LAYERS NOT MORE THAN 12 INCHES IN DEPTH WITHIN THE SPA AND COMPACTED
- 11. THE CONTRACTOR SHALL DEWATER EXCAVATION AREAS AS NEEDED TO CONDUCT WORK, WATER WILL BE PUMPED THROUGH FILTER BAGS OR MANAGED IN ACCORDANCE WITH APPLICABLE PERMIT
- 12. AECOM WILL PERFORM POST-EXCAVATION AND CONFIRMATORY SOIL SAMPLING AS EXCAVATION IS BEING CONDUCTED, BASED ON ANALYTICAL RESULTS, EXCAVATION OF ADDITIONAL IMPACTED SOILS MAY BE REQUIRED.
- 13. ONCE THE POST-EXCAVATION AND CONFIRMATORY SAMPLING INDICATES THAT THE CLEANUP STANDARDS HAVE BEEN ACHIEVED THE EXCAVATIONS WILL BE BACKFILLED AND RESTORED IN ACCORDANCE WITH THE RESTORATION PLANS.
- 14. DECONTAMINATE EQUIPMENT PRIOR TO USE FOR BACKFILLING AND RESTORATION.
- 15. SEE SHEETS G-05 AND G-06 FOR RESTORATION PLAN DETAILS
- 16. PLACE SEED AND MULCH ON ALL DISTURBED AREAS (SEE SHEET G-03 FOR DETAILS).
- 17. REMOVE ALL TEMPORARY ER RESTORED AND STABILIZED A D FINAL L HAS BE N OBTA FROM E OWNER. STAB ZE DISTURBED AREAS AFTER RE DVAL OF N AND SE MENT OL ME URES.
- 18. DECONTAMINATE ALL EQUIPM NNEL AND EQUIP NT BEFOR FROM THE SITE.

WETLAND AEC CORRECTIVE MEASURES. Lake Success Business Park Fairfield County 615 Asylum Street Bridgeport, CT 06610

DuPont Specialty Products USA, LLC

CONSULTANT

W DE 19702 302.781.5900 tel 302.781.5901 fax www.aecom.com

ISSUE/REVISION

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1/8	DATE	DESCRIPTION

KEY PLAN

PROJECT NUMBER

AECOM: 60729082 / DuPont: 607797

SHEET TITLE

General Notes

SHEET NUMBER

SOIL EROSION AND SEDIMENT CONTROL (SESC) PLAN

- ALL SOIL EROSION AND SEDIMENT CONTROL PRACTICES IN THIS PLAN SHALL BE CONSTRUCTED IN ACCORDANCE WITH "CONNECTICUT GUIDELINES FOR SOIL EROSION AND SEDIMENT CONTROL (2024)" AND IMPLEMENTED IN ACCORDANCE WITH THE CONNECTICUT DEPARTMENT OF ENERGY AND ENVIRONMENTAL PROTECTION (CTDEEP) GENERAL PERMIT FOR THE DISCHARGE OF STORMWATER AND DEWATERING WASTEWATERS FROM CONSTRUCTION ACTIVITIES (EFFECTIVE DECEMBER 1, 2020).
- PRIOR TO COMMENCEMENT OF WORK, THE CONTRACTOR AND ENGINEER (AECOM) SHALL REVIEW THE REQUIREMENTS OF THE APPROVED EROSION AND SEDIMENT CONTROL PLAN. A COPY OF THE PLAN WILL BE MAINTAINED ON THE PROJECT SITE FOR THE DURATION OF THE PROJECT.
- EROSION AND SEDIMENTATION CONTROLS SHALL BE CONSTRUCTED, STABILIZED, AND FUNCTIONAL BEFORE GENERAL SITE DISTURBANCE WITHIN THE DRAINAGE AREAS OF THOSE CONTROLS.
- 4. THE CONTRACTOR SHALL IMPLEMENT APPROPRIATE DUST CONTROL TECHNIQUES AS NEEDED AND APPROVED BY THE ENGINEER TO PREVENT THE MIGRATION OF WIND BLOWN SEDIMENT FROM SITE AREAS. DUST CONTROLS MAY INCLUDE MULCHING, VEGETATIVE COVER, MECHANICAL SWEEPERS OR FINE WATER SPRAYS/SPRINKLING.
- DISTURBED AREAS SHALL BE MAINTAINED IN A ROUGH GRADED CONDITION AND TEMPORARILY STABILIZED UNTIL PROPER WEATHER CONDITIONS EXIST TO ESTABLISH PERMANENT VEGETATIVE COVER. FOLLOW STABILIZATION PROCEDURE AS DESCRIBED IN SEEDING AND MULCHING INFORMATION.
- EROSION CONTROL SHALL CONSIST OF BOTH VEGETATIVE AND STRUCTURAL MEASURES TO MINIMIZE SOIL LOSS BY WIND OR WATER. MEASURES TO BE USED ARE DETAILED ON SHEET G-04.
- IF PUMPING OF SEDIMENT LADEN WATER IS REQUIRED, DISCHARGE MUST BE DIRECTED TO AN APPROVED SEDIMENT MANAGEMENT DEVICE SUCH AS A WATER TANK OR A FILTER BAG (SEE DETAILS ON SHEET G-04).
- 8. SHOULD UNFORESEEN EROSIVE CONDITIONS DEVELOP DURING CONSTRUCTION, THE CONTRACTOR SHALL TAKE ACTION TO REMEDDY SUCH CONDITIONS AND TO PREVENT DAMAGE TO ADJACENT PROPERTIES AS A RESULT OF INCREASED RUNOFF AND/OR SEDIMENT DISPLACEMENT, IN ACCORDANCE WITH THE "CONNECTICUT GUIDELINES FOR SOIL EROSION AND SEDIMENT CONTROL (2024) "OR AS DIRECTED BY THE ENGINEER.
- SOIL STOCKPILES IN THE SPA SHALL BE LOCATED ON AREAS WITH LITTLE TO NO SLOPE, WHEN FEASIBLE. THE CONTRACTOR SHALL IMPLEMENT APPROPRIATE CONTROL PRACTICES TO PREVENT THE MIGRATION OF SEDIMENT FROM ALL STOCKPILE AREAS. NO SOIL SHALL BE STOCKPILED IN THE SITE ROAD EXCAVATION AREAS.
- MAXIMUM SLOPES OF EXPOSED SURFACES SHALL NOT EXCEED TWO TO ONE (2:1) UNLESS OTHERWISE APPROVED BY THE AGENCY. STOCKPILE HEIGHTS SHALL NOT EXCEED 35 FEET.
- TO THE EXTENT PRACTICAL, PAVED ROADS SHALL BE KEPT CLEAN AT THE END OF EACH DAY.
- UNSTABILIZED AREAS OR AREAS OF DISTURBANCES WITH EXPOSED SOILS WHERE NO CONSTRUCTION ACTIVITY IS EXPECTED FOR THREE WEEKS SHALL BE STABILIZED WITH TEMPORARY SEEDING AND MULCHING PRE ENGINEER'S APPROVAL
- DISTURBED AREAS WHERE NO CONSTRUCTION ACTIVITY IS EXPECTED FOR ONE YEAR AND AREAS THAT HAVE BEEN GRADED TO FINAL ELEVATIONS SHALL BE STABILIZED WITH PERMANENT CONTROLS PER ENGINEER'S APPROVAL
- 14. ALL SESC MEASURES SHALL BE INSPECTED ROUTINELY AT LEAST ONCE A WEEK AND WITHIN 24 HOURS OF A RAINFALL EVENT THAT GENERATES A DISCHARGE.
- AFTER FINAL SITE STABILIZATION HAS BEEN ACHIEVED, TEMPORARY SOIL EROSION AND SEDIMENT CONTROLS SHALL BE REMOVED. AREAS DISTURBED DURING REMOVAL OF THE CONTROLS SHALL BE STABILIZED.
- 16. DUPONT'S AUTHORIZED REPRESENTATIVE/ENGINEER (AECOM) AND THE CONTRACTOR PERFORMING THE WORK IS RESPONSIBLE FOR THE IMPLEMENTATION OF THIS SOIL EROSION AND SEDIMENT CONTROL PLAN. REPRESENTATIVES CAN BE REACHED AT 203-576-1829.

SESC PLAN INSPECTION AND MAINTENANCE NOTES

- UNTIL THE SITE IS STABILIZED, ALL EROSION AND SEDIMENT CONTROLS SHALL BE MAINTAINED PROPERLY AND INSPECTED WEEKLY BY THE CONTRACTOR AND/OR ENGINEER IN ACCORDANCE WITH THE PLANS.
- 2. WITHIN 24 HOURS OF THE END OF A STORM THAT GENERATES A DISCHARGE, THE CONTRACTOR OR ENGINEER SHALL INSPECT THE FOLLOWING: DISTURBED AREAS THAT HAVE NOT BEEN FINALLY STABILIZED; ALL EROSION AND SEDIMENT CONTROL MEASURES; STRUCTURAL CONTROL MEASURES; STOCKPILE AREAS; WASHOUT AREAS; AND AREAS WHERE VEHICLES ENTEREXIT CONSTRUCTION AREAS. FOR STORMS THAT END ON A WEEKEND HOLIDAY OR OTHER TIME AFTER WHICH NORMAL WORKING HOURS WILL NOT COMMENCE WITHIN 24 HOURS, A ROUTINE INSPECTION IS REQUIRED WITHIN 24 HOURS ONLY FOR STORMS THAT EQUAL OR EXCEED 0.5 INCHES, FOR STORMS OF LESS THAN 0.5 INCHES, AN INSPECTION SHALL OCCUR IMMEDIATELY UPON THE START OF THE SUBSEQUENT NORMAL WORKING HOLIGS.
- AECOM MAINTAINS A RAIN GAUGE ON SITE TO DOCUMENT RAINFALL AMOUNTS.
- 4. INSPECTIONS SHALL EVALUATE THE EFFECTIVENESS OF EROSION AND SEDIMENT CONTROLS, STRUCTURAL CONTROLS, STABILIZATION PRACTICES, AND ANY OTHER CONTROLS IMPLEMENTED TO PREVENT POLLUTION AND DETERMINE IF IT IS NECESSARY TO INSTALL, MAINTAIN, OR REPAIR SUCH CONTROLS AND/OR PRACTICES TO IMPROVE THE QUALITY OF STORMWATER DISCHARGE(S). IN ADDITION, ALL OF THE AREAS ASSOCIATED WITH THE PLAN SHALL BE INSPECTED FOR EVIDENCE OF, OR THE POTENTIAL FOR, POLLUTANTS DISCHARGINS TO WATERS, OR ENTERING THE DRAINAGE SYSTEM AND IMPACTS TO THE RECEIVING WATERS. LOCATIONS WHERE VEHICLES ENTER OR EXIT THE WORK ZONES SHALL ALSO BE INSPECTED FOR EVIDENCE OF OFF-SITE SEDIMENT TRACKING.
- THE CONTRACTOR AND/OR ENGINEER SHALL BE RESPONSIBLE FOR THE PROPER CONSTRUCTION, STABILIZATION, AND MAINTENANCE OF ALL EROSION AND SEDIMENTATION CONTROLS AND RELATED ITEMS INCLUDED WITHIN THE SESC PLAN UNTIL THE PROJECT IS 10% COMPLETE.
- 6. SHOULD ANY OF THE EROSION AND SEDIMENT CONTROL MEASURES PROVE INCAPABLE OF ADEQUATELY REMOVING SEDIMENT OR OF STABILIZING THE SURFACES INVOLVED, ADDITIONAL MEASURES SHALL BE IMMEDIATELY IMPLEMENTED BY THE CONTRACTOR AND/OR ENGINEER TO ELIMINATE ALL SUCH PROBLEMS. THE SESC PLAN SHALL BE SHALL BE AMENDED WHENEVER THERE IS AN ADDITION OR A CHANGE IN CONTRACTORS AT THE SITE., CHANGE IN DESIGN, CONSTRUCTION, OPERATION, OR MAINTENANCE AT THE SITE WHICH HAS NOT OTHERWISE BEEN ADDRESSED IN THE PLAN.

TEMPORARY STABILIZATION PROCEDURE

- SEED ALL DISTURBED AREAS WHICH WILL NOT BE PAVED, BUILT UPON, OR ESTABLISHED WITH PERMANENT VEGETATION FOR LONGER THAN ONE MONTH, BUT LESS THAN ONE YEAR, AND ALL STEEP CUT AND FILL SLOPES WHERE NO FURTHER ACTIVITY WILL OCCUR UNTIL FINAL GRADING.
- GRADE AS NEEDED TO PERMIT THE USE OF CONVENTIONAL EQUIPMENT FOR SEEDBED PREPARATION, SEEDING, MULCH APPLICATION AND ANCHORING, AND MAINTENANCE.
- APPLY FERTILIZER AT THE RATE OF 300 POUNDS PER ACRE OR 7.5 POUNDS PER 1,000 SQUARE FEET OF 10-10-10 OR EQUIVALENT IN NON-WETLAND APFAS.
- 4. TEMPORARY SEED IN NON-WETLAND AREAS SHALL CONSIST OF A UNIFORM MIXTURE OF: (A) PERENNIAL RYEGRASS APPLIED AT 20 POUNDS PER ACRE AND ANNUAL RYEGRASS APPLIED AT 20 POUNDS PER ACRE EQUIVALENT, SEEDED BETWEEN MARCH 1 - JUNE 15 AND AUGUST 1 -OCTOBER 1; (B) WINTER RYEGRASS APPLIED AT 120 POUNDS PER ACRE, SEEDED BETWEEN OCTOBER 1 - DECEMBER 15.
- APPLY SEED UNIFORMLY BY HAND, CYCLONE OR DRILL METHOD, IMMEDIATELY AFTER DISTURBANCE, TO A DEPTH OF 1.0 INCHES.

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TOPSOILING, SEEDING AND MULCHING INFORMATION

- ALL SEEDING AND MULCHING SHALL BE PERFORMED IN ACCORDANCE WITH THE PLANS AND "CONNECTICUT GUIDELINES FOR SOIL EROSION AND SEDIMENT CONTROL (2024).", WHICHEVER IS MORE STRINGENT.
- 2. ANY DISTURBED AREA ON WHICH ACTIVITY HAS CEASED AND WHICH WILL REMAIN EXPOSED FOR MORE THAN 1 MONTH SHALL BE SECEDE AND MULCHED WITHIN 7 DAYS OF LAST ACTIVITY. DURING NON-GERMINATING PERIODS, TEMPORARY SEEDING WITH EROSION CONTROL BLANKETS (ECB) SHALL BE APPLIED AT THE RECOMMENDED RATES IN THE SPECIFICATIONS. DISTURBED AREAS WHICH ARE NOT AT FINISHED GRADE AND WHICH WILL BE RE-DISTURBED WITHIN 1 YEAR MAY BE SEEDED AND MULCHED WITH A QUICK GROWING TEMPORARY SEEDING MIXTURE AND MULCH. DISTURBED ANSES WHICH ARE EITHER AT FINISHED GRADE OR WILL NOT BE RE-DISTURBED WITHIN 1 YEAR SHALL BE SEEDED AND MULCHED WITH A PERMANENT SEED MIXTURE AND MULCH.

PERMANENT VEGETATION PROCEDURE

- SEED ALL DISTURBED AREAS WHICH WILL NOT BE PAVED, BUILT UPON, OR ESTABLISHED WITH PERMANENT VEGETATION FOR LONGER THAN ONE YEAR, AND ALL AREAS AT FINAL GRADE.
- GRADE AS NEEDED TO PERMIT THE USE OF CONVENTIONAL EQUIPMENT FOR SEEDBED PREPARATION, SEEDING, MULCH APPLICATION AND ANCHORING, AND MAINTENANCE.
- PERMANENT SEEDING OF UPLAND AND TRANSITION AREAS WITH NEW ENGLAND CONSERVATION/WILDLIFE MIX AT 25 LBS PER ACRE. SEED MIX IS AVAILABLE FROM NEW ENGLAND WETLAND PLANTS, INC., AMHERST, PA. A SUITABLE ALTERNATIVE MAY BE USED IF APPROVED BY THE ENGINEER.
- 4. PERMANENT SEEDING OF WETLAND AREAS WITH NEW ENGLAND WETLAND SEED MIX AT 18 LBS PER ACRE. SEED MIX IS AVAILABLE FROM NEW ENGLAND WETLAND PLANTS, INC., AMHERST, PA. A SUITABLE ALTERNATIVE MAY BE USED IF APPROVED BY THE ENGINEER.
- APPLY SEED UNIFORMLY BY HAND HELD SPREADER, DRILL OR BROADCAST AND CULTIPACKED. SEED IMMEDIATELY AFTER SEEDBED PREPARATION. ALL SPREADERS SHALL BE CALIBRATED BEFORE USE. FOR EVEN DISTRIBUTION, THE SEED SHOULD BE DIVIDED IN HALF AND SPREAD IN PERPENDICULAR DISPECTIONS.
- 6. MULCHING IS REQUIRED ON ALL SEEDING, FOR TEMPORARY STABILIZATION AND PERMANENT VEGETATION PROCEDURES. MULCH SHALL BE APPLIED IMMEDIATELY AFTER SEEDING AND SHALL CONSIST OF UNROTTED STRAW APPLIED AT THE RATE OF 2 TONS PER ACRE, SPREAD UNIFORMLY BY HAND OR APPROVED MECHANICAL MEANS, APPROVED COMMERCIALLY AVAILABLE BIO-DEGRADABLE MULCH OR ANCHORING SHALL BE APPLIED IN ACCORDANCE WITH THE MANUFACTURER'S RECOMMENDED METHODS FOR ALL SLOPES GREATER THAN 3 PERCENT AND ALL AREAS OF CONCENTRATED
- 7. MULCH CAN BE IN THE FORM OF AN EROSION CONTROL BLANKET, AS WELL.

		the last street and it becomes	nent Seeding Seed Mi	A STATE OF THE PARTY OF THE PAR	
New Englar	nd Wetland Seed M	ix	New England C	onservation/Wildlif	e Mix
Botanical Name	Common Name	Indicator	Botanical Name	Common Name	Indicator
Carex vulpinoidea	Fox Sedge	OBL	Elymus virginicus	Virginia Wild Rye	FACW
Carex scoparia	Blunt Broom sedge	FACW	Schizachyrium scoparium	Little Bluestern	FACU
Carex lunida	Lurid Sedge	OBL	Andropogon gerardii	Big Bluestem	FAC
Carex Juputina	Hop Sedge	OBL	Festuca rubra	Red Fescue	FACU
Poa palustris	Fowl Bluegrass	FACW	Sorghastrum nutans	Indian Grass	UPL
Bidens frondosa	Beggar Ticks	FACW	Panicum virgatum	Switch Grass	FAC
Scirpus atrovirens	Green Bulrush	OBL	Chamaecrista fasciculata	Partridge Pea	FACU
Asclepias incamata	Swamp Mikweed	OBL	Desmodium canadense	Showy Tick Trefoil	FAC
Carex crinita	Fringed Sedge	OBL	Asclepias tuberosa	Butterfly Mikweed	NI
Vernonia noveboracensis	New York fromweed	FACW+	Bidens frondosa	Beggar Ticks	FACW
Juncus effusus	Soft Rush	OBL	Eupatonum purpureum	Purple Joe Pye Weed	FAC
Aster latenflorus	Starved/Calico Aster	FACW	Rudbeckia hirta	Black Eyed Susan	FACU
Iris versionlor	Blue Flag	OBL	Aster pilosus	Heath Aster	UPL.
Glyceria grandis	American Mannagrass	OBL	Solidago juncea	Early Goldenrod	
Mimulus ringens	Square Stemmed Monkey Flower	OBL			
Eupatorium maculatum	Spotted Joe Pye Weed	OBL			

AECOM

PROJEC

WETLAND AEC CORRECTIVE MEASURES Lake Success Business Park Fairfield County 615 Asylum Street Bridgeport, CT 06610

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KEY PLAN

PROJECT NUMBER

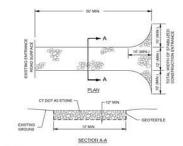
AECOM: 60729082 / DuPont: 607797

HEET TITLE

Soil Erosion and Sediment Control Plan

SHEET NUMBER

-03



NOTES:

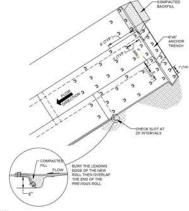
- 1 STABILIZED CONSTRUCTION ENTRANCES WILL BE CONSTRUCTED TO THE
- MINIMUM WIDTH, LENGTH, AND THICKNESS DIMENSIONS AS SHOWN.
 2. STABILIZED CONSTRUCTION ENTRANCE SHALL BE CONSTRUCTED OF DOT #3 STONE AS SPECIFIED IN DOT STANDARD SPECIFICATIONS SECTION M 01 01.
- 3. AN 8 OZ. NONWOVEN GEOTEXTILE FABRIC UNDERLAYMENT SHALL BE PLACED
- OVER THE ENTIRE EXCAVATED AREA.
 STONE SHALL BE REPLACED AS NEEDED TO MAINTAIN A CLEAN ROAD SURFACE MAINTAIN PAD THICKNESS OF NO LESS THAN 12.

DETAIL (1) STABILIZED CONSTRUCTION ENTRANCE

(N.T.S.)

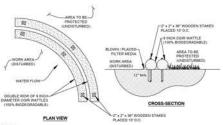
15' x 15' FILTER BAG

EXAMPLE BRAND NAME "DIRTBAG" ACF ENVIRONMENTAL 1801-A WILLIS DOAD DICHMOND



- BLAIKETS SHALL BE PLACED BY A MANNER WHICH WILL NOT CAUSE THE BLAIKET TO BRIDGE OR TERIT OVER OBSTRUCTIONS. BLAIKET SHALL BE STAPLED AS SHOWN ON THE DETAIL OR BY ACCORDANCE WITH MANUACTURES RECOMMENDATIONS OWNCHEVER IS MORE STRINGERY). BLAIKETS SHALL BE FLACED PARALLEL TO SLOPE DIRECTION, IMMINION THE SEAMS. BY SEAMING IS NECESSARY, A MINIMUM OF OVERLAP SHALL BE USED, ENSURIENT THE LIPS OF SEAM OVERLAP THE OWNSELOR SEAM BY A SHRINGE CORP GURATION STAPLES OF THE OWNSELOR SEAM BY A SHRINGE CORP GURATION STAPLES OF THE OWNSELOR SEAM BY A SHRINGE CORP GURATION STAPLES OF THE OWNSELOR SEAR BY A SHRINGE CORP GURATION STAPLES OF THE OWNSELOR SEAR BY A SHRINGE CORP GURATION STAPLES OF THE OWNSELOR SEAR BY A SHRINGE CORP GURATION STAPLES OF THE OWNSELOR SEAR BY A SHRINGE CORP GURATION STAPLES OF THE OWNSELOR SEAR BY A SHRINGE CORP GURATION STAPLES OF THE OWNSELOR SEARCH SEA

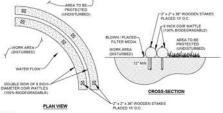
DETAIL 2 **EROSION CONTROL BLANKET SLOPE PROTECTION** (N.T.S.)



NOTES:

- CONTRACTOR SHALL USE A SEDIMENT FILTER BAG TO DEWATER
- TRENCHES OR EXCAVATIONS: SEDIMENT FILTER BAG IS TO BE LOCATED PER APPROVAL BY THE CONSTRUCTION MANAGER
- CONSTRUCTION MANAGER.
 SEDIMENT FILTER BAG IS TO BE REMOVED AND REPLACED WHEN FULL.
 ALL SEDIMENT IS TO BE PROPERLY DISPOSED OR PERMANENTLY.
- DURING DEWATERING OPERATIONS, CONTRACTOR MUST MAN THE
- DURING DEWATERING O'CLEARING, CONTRACTOR MUST MAIL THE SEDIMENT FLIEB READ TO ENDURE PROPERE OFFERTIONS. PUMP INTAKE HOSE MUST NOT BE SET ON THE EXCAVATION BOTTOM THROUGHOUT DEWATERING, PROVISIONS MUST BE MADE TO ELEVATE THE NILET HOSE TO AT LEAST ONE FOOT ABOVE THE BOTTOM UNTIL BOTTOM DEWATERING IS NECESSARY.

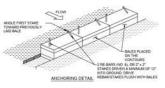
DETAIL 4 FILTER BAG DETAIL (N.T.S.)

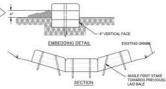


- THE CONTRACTOR SHALL PROVIDE CERTIFICATION THAT COIR WATTLE SPECIFICATIONS MEET
- THE CONTRACTOR SHALL PROVIDE CRETIFICATION THAT CORE WATTLE SPECIFICATIONS MEET THE SPECIFICATION STANDARDS PRIOR TO DITEIZATION OF THE PRODUCT ON-STE.

 ALL MATERIAL TO MEET MANUFACTURER'S SPECIFICATIONS.
 DOUBLE ROWS OF COR WATTLES SHALL BE RESTALED DOWNINGABIENT FROM ANY
 EXCAVATION AREA LOCATED WITHIN IN SIFEET OF A WETLAND OR WATERCOURSE COR
 WATTLES WILL BE ALCCED AT EXISTING LEVEL GRADE. BOTH PRIOR OF THE WATTLE SHALL BE
 TRAFFIC SHALL INC! BE FERMITTED TO CROSS COR WATTLES.
 ACCUMULATED SERMENT SHALL BE REMOVED WHIST IT REACHES LOT THE ABOVE GROUND
 HEIGHT OF THE WATTLE AND DISPOSED IN THE SOIL PLACEMENT AREA IN THE CAMU.
 BEROSION CONTINUES SHALL BE ROWSHOW WHIST WEEKLY BY THE REACHES UNDER THE REACHES WEEKLY MANUFACTURER'S
 EVENT, DAMAGED WATTLES SHALL BE REPARED ACCORDING TO MANUFACTURER'S
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 EVENT, DAMAGED WATTLES SHALL BE REPARED AND DISPOSED OF.

DETAIL 5 COIR WATTLE (N.T.S.)





- HOTES:

 1. BALES SHALL BE PLACED AT THE TOE OF A SLOPE OR ON THE CONTOUR AND BLA ROW WITH ENDS TOGHTLY ABUTTING THE ADJACENT BALES.

 1. EACH BALE SHALL BE REMEDDED IN THE SOLE A MINIMUM OF 4" AND PLACED SO THE BIRDINGS ARE HORIZONTAL AFTER THE BALES ARE STAKED. THE EXCAVATED SOLE SHALL BE BACKFILLED ADARST THE BALES BACKFILLS OLE SHALLE BE EXCAVATED SOLE SHALL BE BACKFILLED ADARST THE BALES BACKFILLS OLE SHALLES ARE STAKED. THE EXCAVATED SOLE SHALL BE BACKFILLED OLE OF THE BARREER.

 2. BALES SHALL BE SCURELT ARCHORED IN PLACE BY STAKES OR RE-BARS DRIVED THROUGH THE OWNERS.

 5. FORCE BALE STOCETHER STAKESRE-BARS PAULL BE DRIVED FLUSH WITH THE TOP OF THE BALE.

 4. BALES SHALL BE REMOVED WHEN THEY HAVE SERVED THERE USEFULDESS SO AS NOT TO BLOCK OR IMPORE STORM FLOW RO DRIVINGS.

 5. SEDIMENT SHALL BE REMOVED WHEN THEY HAVE SERVED THERE USEFULDESS SO AS NOT TO BLOCK OR IMPORE STORMS. ON SHALL BE DRIVED STORMS. ON SHALL BE DRIVED SOME SOME SOME SHALL BE REMOVED WHEN THEY HAVE SERVED THERE USEFULDED SOME GROUND HEIGHT OF HAVE BALE DRIVED.

 5. SEDIMENT SHALL BE REMOVED WHERE ACCUMULATIONS REACH 113 THE ABOVE GROUND HEIGHT OF HAVE BEEN SHALLED SHALL BE REMOVED WHEN THEY HAVE BEEN ETHER UNDERWINED OR TOPPED SHALL BE REPAIRED OR REPLACED AS APPROPRIATE.

DETAIL 3 HAY BALE SEDIMENT BARRIER (N.T.S.)

RoL	anka Internationa	al, Inc. Coir Wattle	es
Property	BioD-Watl 6	BioD-Watl 9	BioD-Watl 12
Diameter	6 in.	9 in.	12 in.
Length	15 ft.	15 ft.	10 ft.
Unit Weight	0.6 lbs. / ft.	1.5 lbs. / ft.	3 lbs. / ft.
Density	3,4 lbs. / cu. ft.	3.4 lbs. / cu. ft.	3.8 lbs. / cu. ft.
Filler Material	100% Coconut fiber (mattress coir fiber)	100% Coconut fiber (mattress coir fiber)	100% Coconut fiber (mattress coir fiber)
Outer Netting	Bristle coir twine	Bristle coir twine	Bristle coir twine
Mesh Opening	2 in. x 2 in.	2 in. x 2 in.	2 in. x 2 in.
Tensile strength / twine	60 lbs.	60 lbs.	90 lbs.



AECOM

PROJECT

WETLAND AEC CORRECTIVE MEASURES Lake Success Business Park Fairfield County 615 Asylum Street Bridgeport, CT 06610

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ISSUE/REVISION



KEY PLAN

PROJECT NUMBER

AECOM: 60729082 / DuPont: 607797 SHEET TITLE

Erosion and Sediment Control Details

SHEET NUMBER

RESTORATION AND PLANTING PLAN DETAILS AND NOTES

- THE CONTRACTOR SHALL PLACE A MINIUMUM OF 6-INCHES OF PROCESSED LAKE SEDIMENT/TOPSOIL WITHIN THE PROPOSED RESTORATION AREAS. THE PROCESSED LAKE SEDIMENT/TOPSOIL WAS GENERATED DURING THE SUCCESS LAKE CORRECTIVE MEASURES, ANALYTICAL TESTING AND ECOLOGICAL EVALUATIONS OF THE PROCESSED LAKE SEDIMENT/TOPSOIL DETERMINED THE THAT MATERIAL WAS SUITABLE FOR ON-SITE RE-USE. SEE SHEET C-01 FOR THE LOCATIONS OF THE PROCESSED LAKE SEDIMENT/TOPSOIL
- 2. PRIOR TO PLANTING TREES, SHRUBS, AND PLUGS, THE FINISHED WETLAND GRADES SHALL BE SURVEYED AND REVIEWED BY THE ENGINEER OR THEIR REPRESENTATIVE. THE CONTRACTOR SHALL REPORT ANY SOIL OR DRAINAGE CONDITIONS CONSIDERED DETRIMENTAL TO THE PLANTING AND GROWTH OF PLANT MATERIAL. ANY MODIFICATIONS TO WETLAND GRADES SHALL BE PERFORMED PRIOR TO PLANTING ACTIVITIES.
- 3. THE CONTRACTOR SHALL FINAL GRADE THE WETLAND CREATION AREAS WITH MICRO-TOPOGRAPHY, APPLYING MULTIPLE, RANDOM, INTERWOVEN PASSES. THE PREPARED PLANTING SURFACE SHALL BE COMPLETED WITH LIGHT SCARIFICATION AND RAKING TO REMOVE DEBRIS AND LOOSEN THE TOP 3 TO 4 INCHES OF PLANTING SUBSTRATE.
- 4. ALL PLANT MATERIAL SHALL BE FURNISHED AND INSTALLED AS INDICATED; INCLUDING ALL LABOR, MATERIALS, PLANTS, EQUIPMENT, INCIDENTALS, AND
- 5. THE CONTRACTOR SHALL BE RESPONSIBLE FOR PLANTING AT CORRECT GRADES AND ALIGNMENT, ALL DISTURBED AREAS ASSOCIATED WITH PLANTING ACTIVITIES SHALL BE RESTORED TO PROPOSED FINISHED WETLAND GRADES.
- ALL PLANT MATERIAL SHALL BE NURSERY-GROWN OF SPECIMEN QUALITY WITH SYMMETRICAL GROWTH OR TYPICAL OF THE VARIETY THEY SHALL BE SUPPLIED FROM SOURCES IN THE SAME USDA HARDINESS ZONE AS THE PROJECT IS LOCATED. ALL PLANT MATERIAL SHALL CONFORM TO THE STANDARDS OF THE AMERICAN STANDARD FOR NURSERY STOCK ANSI Z60.1 ALL PLANT MATERIAL SHALL BE TYPICAL OF THEIR SPECIES AND VARIETY; HAVE NORMAL GROWTH HABITS. WELL-DEVELOPED BRANCHES. AND DENSELY FOLIATED VIGOROUS ROOT SYSTEMS: AND BE FREE FROM DEFECTS, OBJECTIONABLE DISFIGUREMENT, INJURIES, AND INSECT AND DISEASE PROBLEMS. CONTAINER GROWN NURSERY STOCK SHALL HAVE A WELL-ESTABLISHED ROOT SYSTEM REACHING THE SIDES OF THE CONTAINER TO MAINTAIN A FIRM BALL WHEN THE CONTAINER IS REMOVED. BUT SHALL NOT HAVE EXCESSIVE ROOT GROWTH ENCIRCLING THE INSIDE OF THE
- INSOFAR AS IT IS PRACTICAL, PLANT MATERIAL SHALL BE PLANTED ON THE DAY OF DELIVERY. IN THE EVENT THIS IS NOT POSSIBLE, THE CONTRACTOR SHALL PROTECT PLANTS NOT PLANTED FROM DRYING BY PLACING THEM IN THE SHADE AND WATERING THEM DAILY, PLANTS SHALL NOT REMAIN UNPLANTED FOR LONGER THAN A THREE (3) DAY PERIOD AFTER DELIVERY.
- PLANTING OPERATIONS SHALL BE PERFORMED DURING PERIODS WITHIN THE PLANTING SEASON WHEN WATER AND SOIL CONDITIONS ARE SUITABLE AND IN ACCORDANCE WITH ACCEPTED LOCAL PRACTICE. PLANTING SEASONS ARE DEFINED AS MARCH 1 THROUGH JUNE 15 AND AUGUST 1 THROUGH OCTOBER 15. PLANTING IS ACCEPTABLE DURING OTHER MONTHS IF WEATHER PERMITS, THE GROUND IS NOT FROZEN, AND SUPPLEMENTAL WATERING IS PROVIDED IN THE SUMMER OR DURING DROUGHT CONDITIONS.
- 9. NO PLANT SUBSTITUTIONS SHALL BE PERMITTED WITH REGARD TO SIZE, SPECIES, OR VARIETY WITHOUT WRITTEN PERMISSION FROM THE ENGINEER OR THEIR REPRESENTATIVE. PROOF OF PLANT MATERIAL UNAVAILABILITY MUST BE DOCUMENTED.
- 10. THE FINAL LOCATION OF ALL PLANT MATERIAL SHALL BE DETERMINED IN THE FIELD UNDER THE DIRECTION OF THE ENGINEER OR THEIR REPRESENTATIVE.
- 11. ALL PLANT MATERIAL SHALL BE PROPERLY PLANTED IN CONFORMANCE WITH THE PLANTING DETAILS. THE CONTRACTOR SHALL OVER DIG EACH TREE AND SHRUB PLANTING PIT TWO TIMES THE WIDTH OF THE CONTAINER OR ROOT
- 12. SEEDING ACTIVITIES SHALL NOT TAKE PLACE WHEN THE WIND VELOCITY WILL PREVENT UNIFORM SEED DISTRIBUTION. SEEDING SHALL BE DONE IN THE DRY; FLOODED AREAS SHALL NOT BE SEEDED. SEEDING PROCEDURES SHALL ENSURE EVEN COVERAGE.

- 13. MULCH MATERIALS SHALL BE NATIVE TO THE REGION AND BE FREE FROM WEEDS MOLD AND OTHER DELETERIOUS MATERIALS, MULICH SHALL BE HAND BROADCAST OR PLACED WITH COMMERCIAL MULCH-BLOWING EQUIPMENT ALONG WITH A LIQUID TACKIFIER (BINDING AGENT) TO FACILITATE ANCHORING OF THE MULCH MATERIAL. MULCH SHALL NOT BE BUNCHED OR CLUMPED. SUNLIGHT SHALL NOT BE COMPLETELY EXCLUDED FROM PENETRATING TO THE GROUND SURFACE, ALL AREAS INSTALLED WITH SEED SHALL BE MULCHED ON THE SAME DAY AS THE SEEDING.
- 14. SOIL AMENDMENTS SHALL CONSIST OF TRANSPLANT INOCULATION (MYCORRHIZAL TREATMENT) AND LONG-TERM RELEASE FERTILIZER. SOIL AMENDMENTS SHALL BE APPLIED AS RECOMMENDED BY THE MANUFACTURER. TRANSPLANT INOCULATION SHALL BE INCORPORATED INTO THE SOIL WHEN BACKELLING THE TREE OR SHRUB PLANTING PIT. AND LONG-TERM FERTILIZER SHALL BE PLACED INTO EACH PLANTING HOLE OR PIT IN ACCORDANCE WITH THE MANUFACTURER'S RECOMMENDATIONS.

TRANSPLANT INOCULATION (MYCORRHIZAL TREATMENT) SHALL CONSIST OF DIEHARD™ TRANSPLANT OR EQUIVALENT PRODUCT WHICH CONTAINS ENDO-AND ECTOMYCORRHIZAE FUNGI, BIOSTIMULANTS, BENEFICIAL BACTERIA, AND HORTA-SORB(R) WATER MANAGEMENT GEL TO HELP SLOW THE RELEASE OF SOLUBLE COMPONENTS IN THE INOCULANT.

LONG-TERM RELEASE FERTILIZER SHALL CONSIST OF A PRODUCT EQUIVALENT TO FORESTRY SUPPLIERS OR SCOTTS AGRIFORM FERTILIZER TABLETS. LONG-TERM FERTILIZER SHALL INCLUDE THE FOLLOWING PRIMARY COMPONENTS: 20% NITROGEN, 10% PHOSPHORIC ACID, AND 5% SOLUBLE POTASH.

- 15. NEWLY INSTALLED PLANT MATERIAL SHALL BE WATERED (SOAKING THE SOIL TO SATURATION) AT THE TIME OF INSTALLATION, APPLY WATER THOROUGHLY TO THE EXTENT THAT ALL MATERIALS ARE THOROUGHLY SATURATED BUT DO NOT DISTURB OR ERODE THE BACKFILL MATERIALS.
- IRRIGATION / WATERING SHALL BE APPLIED AT AN AVERAGE RATE OF 10 GALLONS PER SHRUB PER WEEK AND 15 GALLONS PER TREE PER WEEK DURING THE GROWING SEASON(S) OR AT RATES BASED ON NURSERY RECOMMENDATIONS APPROVED BY THE ENGINEER OR THEIR REPRESENTATIVE. LOCAL PRECIPITATION SHALL BE CONSIDERED WHEN OPERATING IRRIGATION / WATERING EQUIPMENT TO AVOID OVER WATERING PLANT MATERIALS. WATERING SHALL BE CONDUCTED DURING THE MORNING HOURS. EXCESSIVE RUN-OFF AND PUDDLING SHALL BE PREVENTED. WATERING SHALL NOT BE DONE WHEN THE SOIL IS FROZEN AND SHALL CEASE DURING THE DORMANT PERIOD FOLLOWING SENESCENCE, MOBILE WATERING EQUIPMENT (E.G., TRUCKS, TRAILERS, ETC.) SHALL NOT BE DRIVEN WITHIN THE PLANTING AREAS.
- A COMMERCIAL GRADE DEER REPELLANT SPRAY (HINDER(R) OR EQUAL) SHALL BE APPLIED IMMEDIATELY AFTER PLANTING AND THEREAFTER BASED ON MANUFACTURER'S RECOMMENDATIONS APPROVED BY THE ENGINEER OR THEIR REPRESENTATIVE.
- THE CONTRACTOR SHALL INSTALL DEER EXCLUSION FENCING AROUND THE LIMITS OF THE WETLAND EXCAVATION AREAS TO PROTECT THE NEWLY PLANTED TREES AND SHRUBS. THE CONTRACTOR SHALL SUBMIT THE PROPOSED DEER FENCE MATERIALS AND SPECIFICATIONS TO DUPONT/AECOM FOR APPROVAL PRIOR TO INSTALLATION. ALL DEER FENCING SHALL BE INSTALLED PER THE MANUFACTURER'S SPECIFICATIONS AND AT A MINIMUM MEET THE FOLLOWING REQUIREMENTS:

THE CONTRACTOR SHALL COORDINATE THE LOCATION OF THE DEER FENCING WITH AECOM PRIOR TO INSTALLATION.

FENCING SHALL HAVE A MINIMUM FINISHED HEIGHT OF 8 FT AND BE CONSTRUCTED TO FORM A COMPLETE ENCLOSURE AROUND THE WETLAND EXCAVATION LIMITS SO THAT DEER WILL BE LINABLE TO CRAWL UNDER THE FENCE. THE FENCE IS TO BE ANCHORED TO THE GROUND WITH STAKES DRIVEN INTO THE GROUND A MINIMUM OF 12 INCHES, DEPRESSIONS AND GAPS BETWEEN THE GROUND AND THE FENCE SHALL BE FILLED WITH SOIL TO PREVENT DEER FROM ENTERING BENEATH THE PROTECTION BARRIER.

THE CONTRACTOR SHALL BE RESPONSIBLE FOR REPAIR AND MAINTENANCE OF INSTALLED DEER FENCE MATERIALS DURING THE PLANT MONITORING AND WARRANTY PERIODS.

- THE CONTRACTOR SHALL BE RESPONSIBLE FOR PLANT MATERIAL FOR A PERIOD OF ONE (1) YEAR FROM THE DATE OF PLANTING, ANY SUCH PLANT THAT DIES OR IS DAMAGED WITHIN THAT TIME PERIOD SHALL BE REMOVED. INCLUDING THE ROOT MASS, AND SHALL BE REPLACED WITH HEALTHY PLANT MATERIAL OF EQUAL SIZE, AGE, AND SPECIES TO ACHIEVE THE TOTAL PLANT SURVIVAL OF EACH TYPE OF PLANT MATERIAL (I.E., TREE, SHRUB, ETC.). TIMING OF ANY PLANT REPLACEMENT SHALL BE COORDINATED WITH THE ENGINEER OR THEIR REPRESENTATIVE THE CONTRACTOR SHALL BE RESPONSIBLE FOR SURVIVAL OF REPLACED PLANT MATERIAL FOR ONE (1) YEAR FROM THE DATE OF THE REPLACEMENT PLANTING.
- THE CONTRACTOR SHALL PROVIDE THREE (3) CONSECUTIVE YEARS OF INVASIVE SPECIES CONTROL WITHIN THE WETLAND AND UPLAND RESTORATION AREAS. INVASIVE SPECIES CONTROL SHALL BE COMPLETED BY THE CONTRACTOR BY APPLICATION OF HERBICIDE (POLARIS) (IMAZAPYR) OR EQUAL) TO THE ENTIRE AREA INFESTED WITH INVASIVE SPECIES AND COORDINATED WITH THE ENGINEER OR THEIR REPRESENTATIVE. CONTRACTOR CONDUCTED HERBICIDE APPLICATIONS SHALL BE COMPLETED USING AN HERBICIDE APPLICATOR MEETING CONNECTICUT STATE REQUIREMENTS. HERBICIDE APPLICATIONS SHALL BE CONDUCTED TOWARD THE END OF THE GROWING SEASON BEFORE SENESCENCE, AND HARVESTING OF INVASIVE SPECIES DEAD CULMS THE NEXT GROWING SEASON. THE CONTRACTOR SHALL BE RESPONSIBLE FOR DAMAGE TO WETLAND AREAS RESULTING FROM HERBICIDE APPLICATION AND ASSOCIATED OVERSPRAY AND SHALL REPLACE AND INSTALL ANY DAMAGED PLANT MATERIAL WITH PLANT MATERIAL OF EQUAL SIZE AGE AND SPECIES HERBICIDE APPLICATIONS SHALL ONLY BE COMPLETED. BY COMMERCIAL APPLICATORS WHO ARE CERTIFIED AND REGISTERED TO PERFORM APPLICATORS IN THE STATE OF CONNECTICUT.

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WETLAND AEC CORRECTIVE MEASURES. Lake Success Business Park Fairfield County 615 Asylum Street Bridgeport, CT 06610

DuPont Specialty Products USA, LLC

CONSULTANT

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302.781.5900 tel 302.781.5901 fax WWW alecom com

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KEY PLAN

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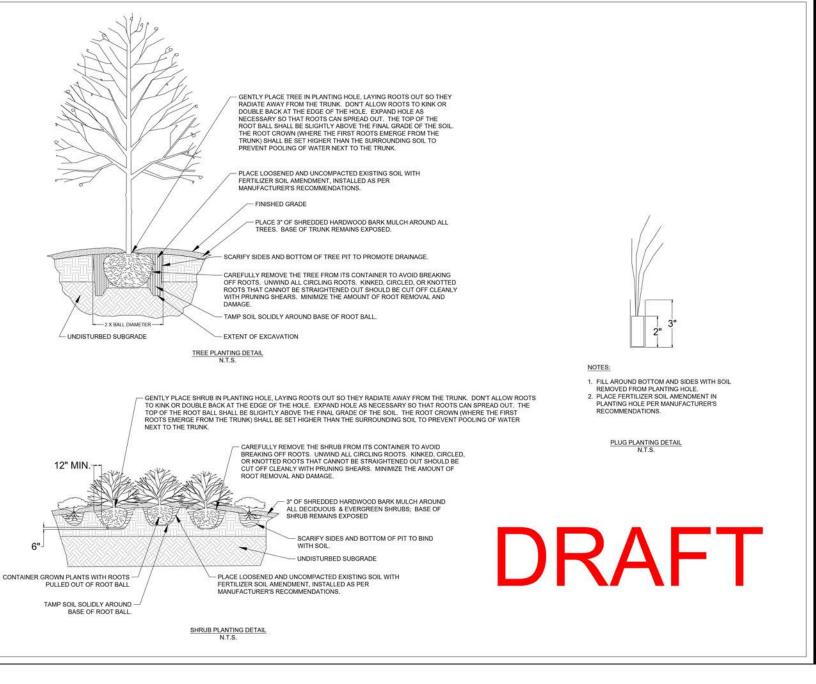
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Restoration and Planting Plan

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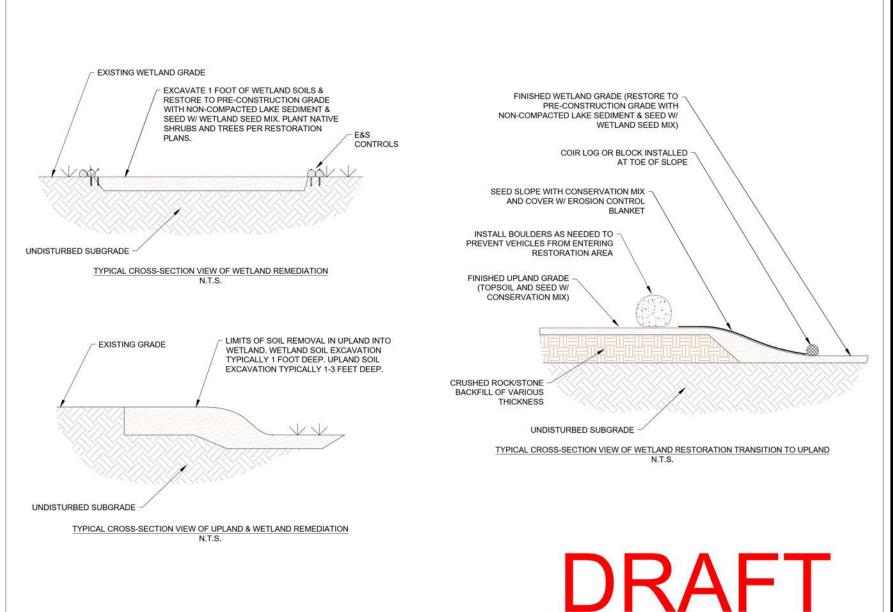
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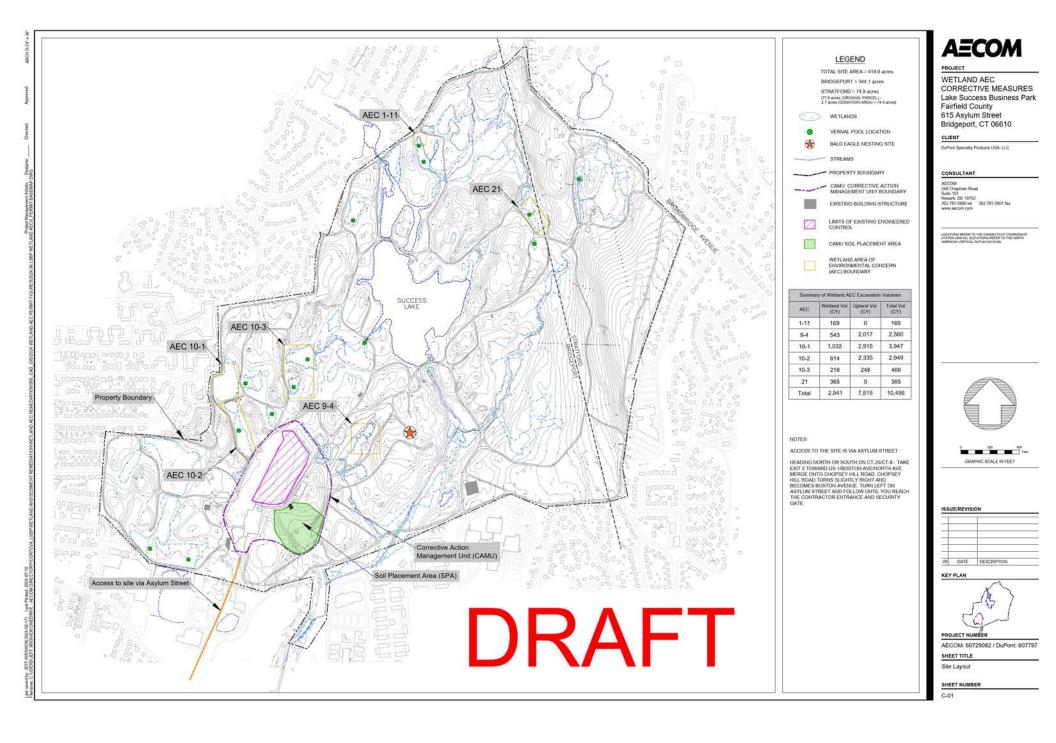
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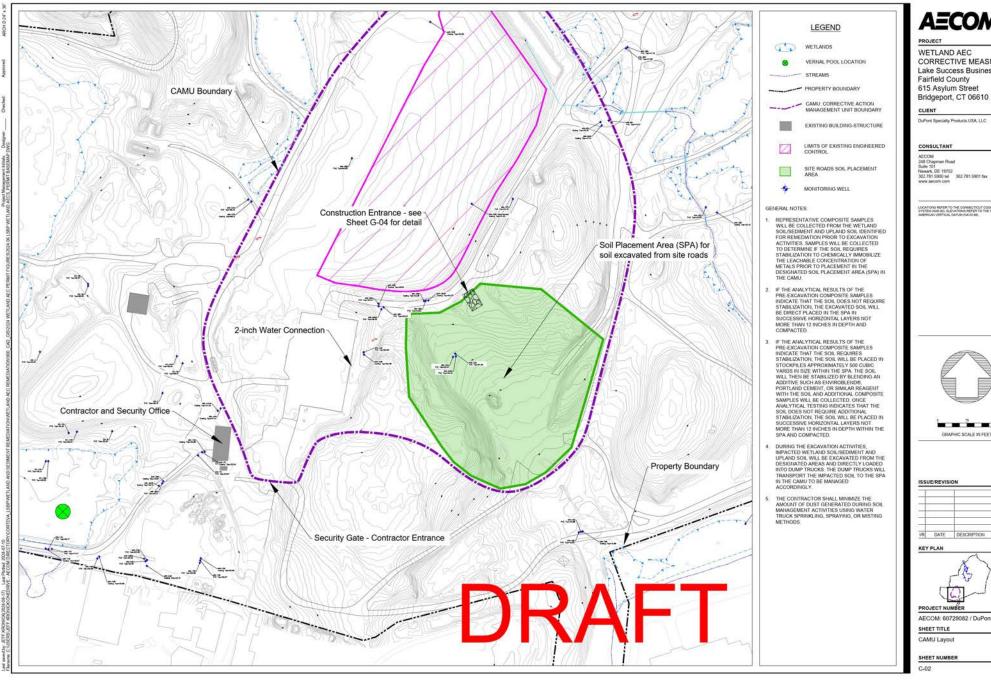
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AECOM: 60729082 / DuPont: 607797

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Typical Cross-Section Views





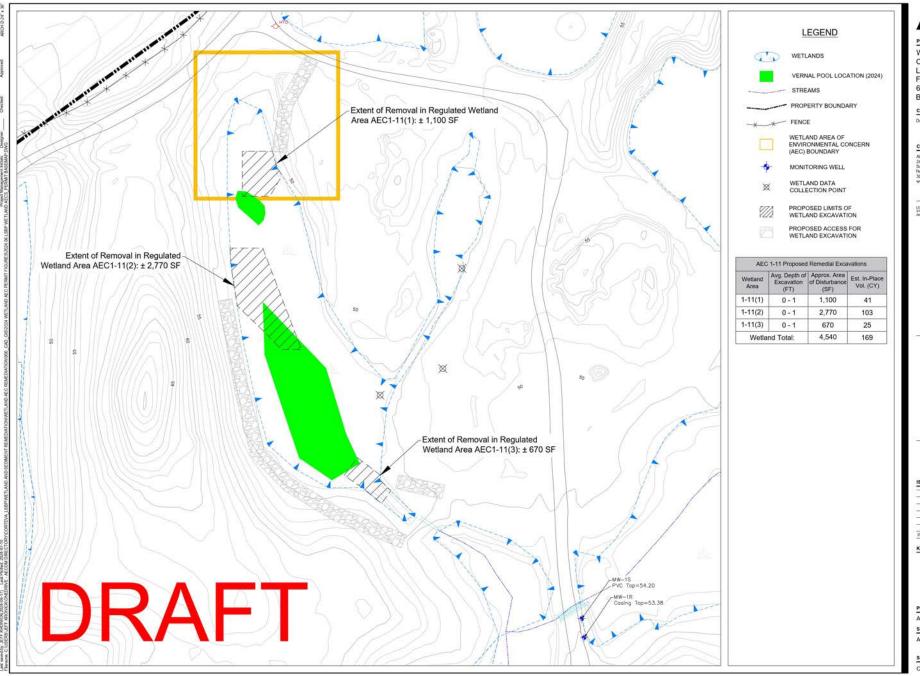
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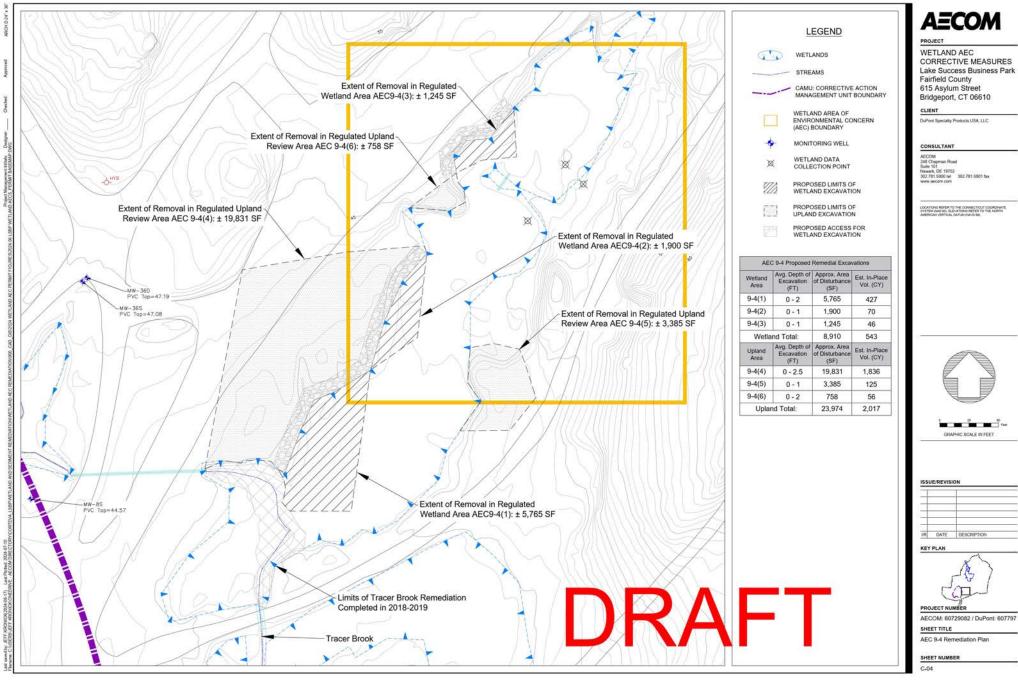
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AECOM: 60729082 / DuPont: 607797

SHEET TITLE AEC 1-11 Remediation Plan

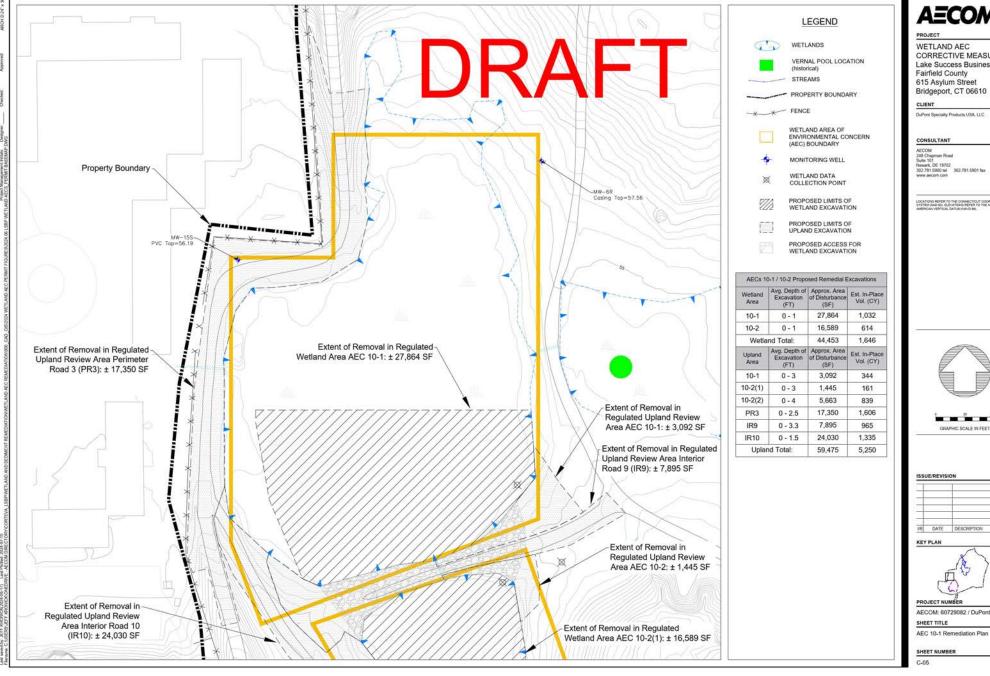


CORRECTIVE MEASURES Lake Success Business Park









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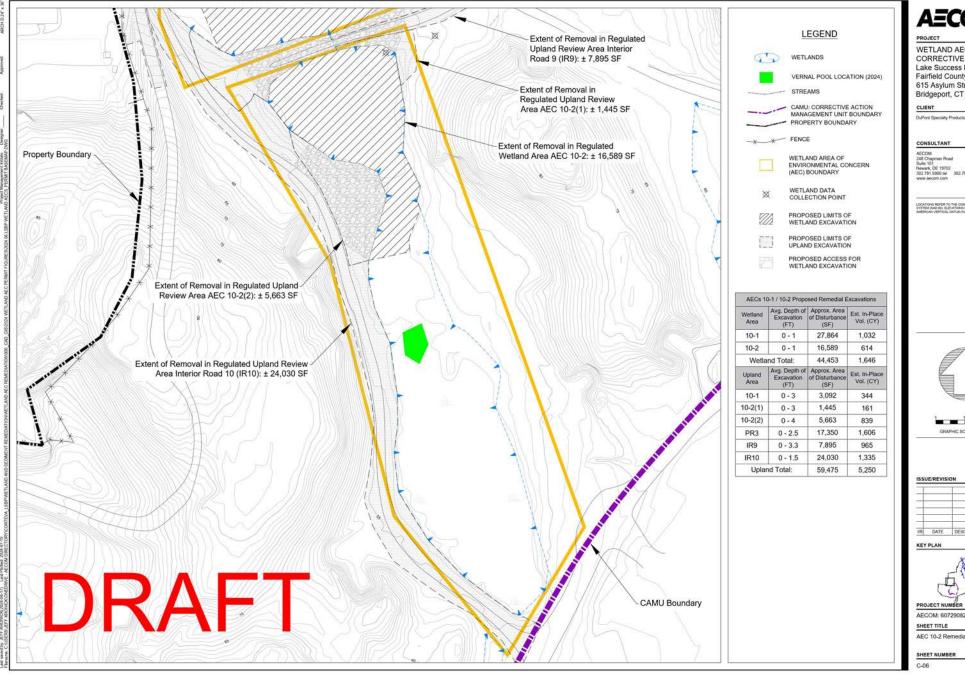






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AEC 10-1 Remediation Plan



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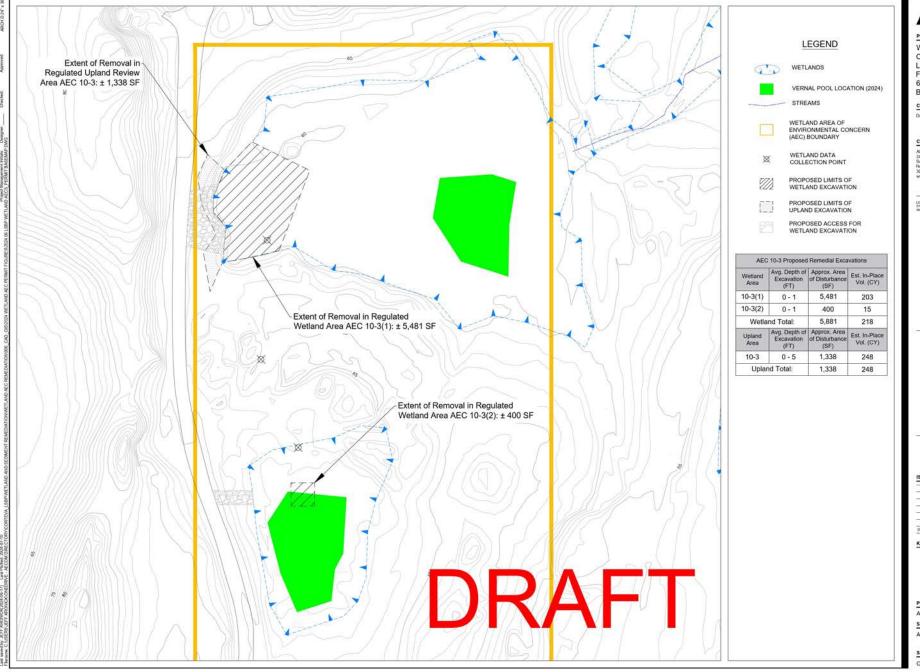
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AEC 10-2 Remediation Plan



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OCATIONS REFER TO THE CONNECTICUT COORDINATE. VISTEM INAD 83, ELEVATIONS REFER TO THE NORTH





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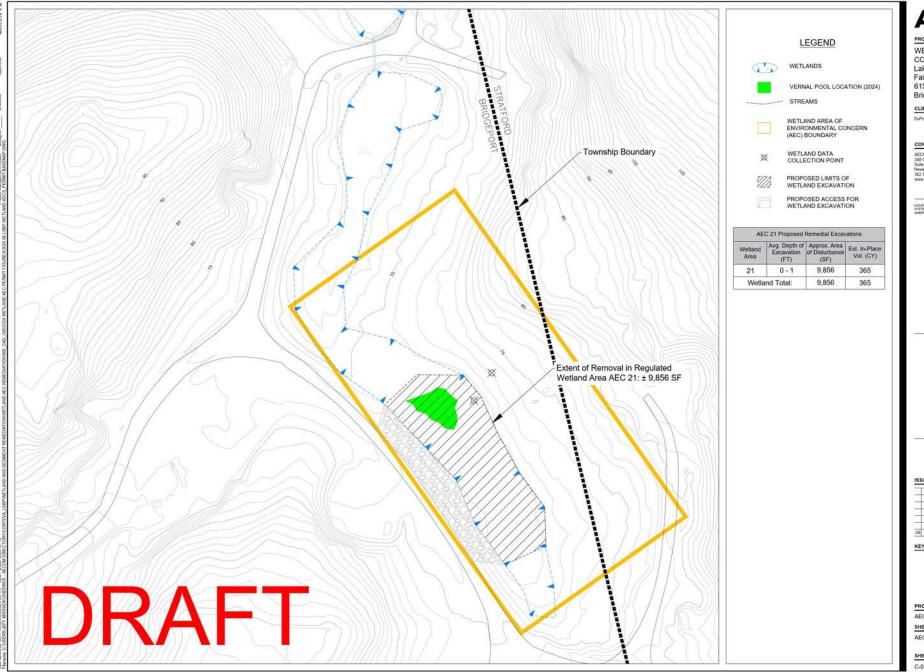
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AECOM: 60729082 / DuPont: 607797 SHEET TITLE

AEC 10-3 Remediation Plan

SHEET NUMBER

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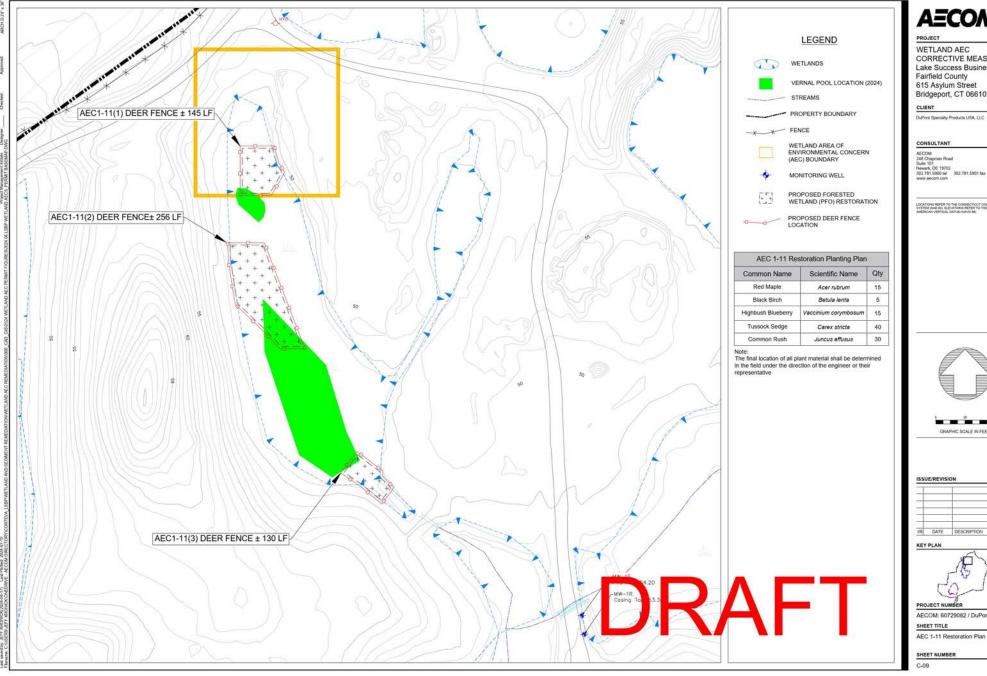
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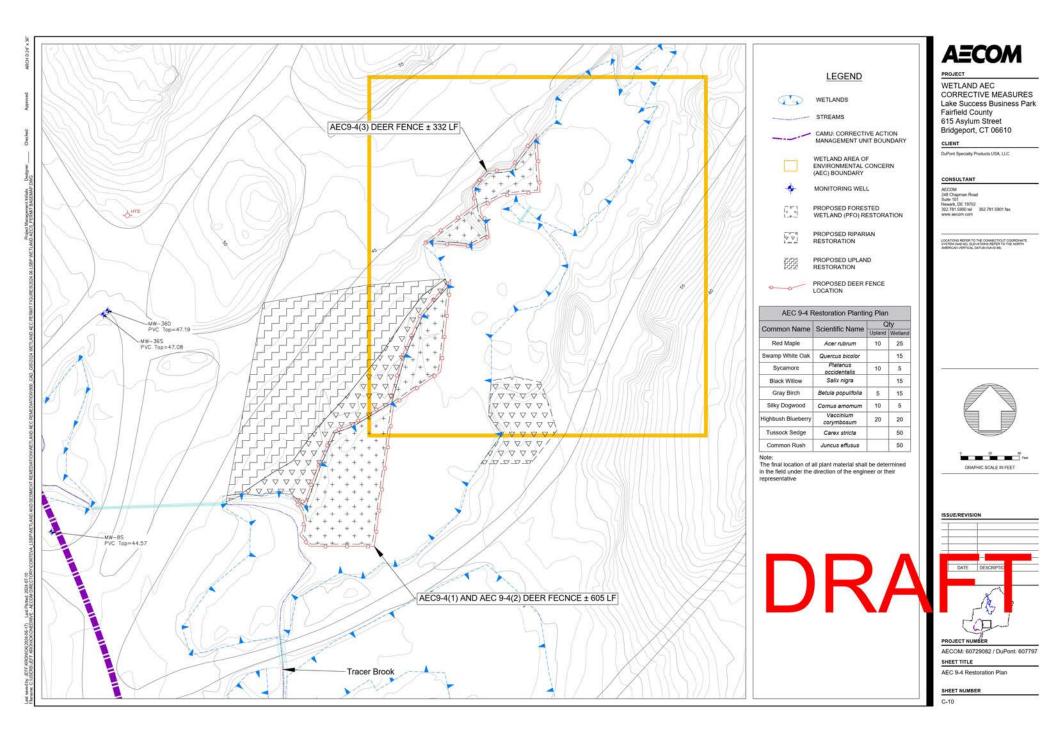


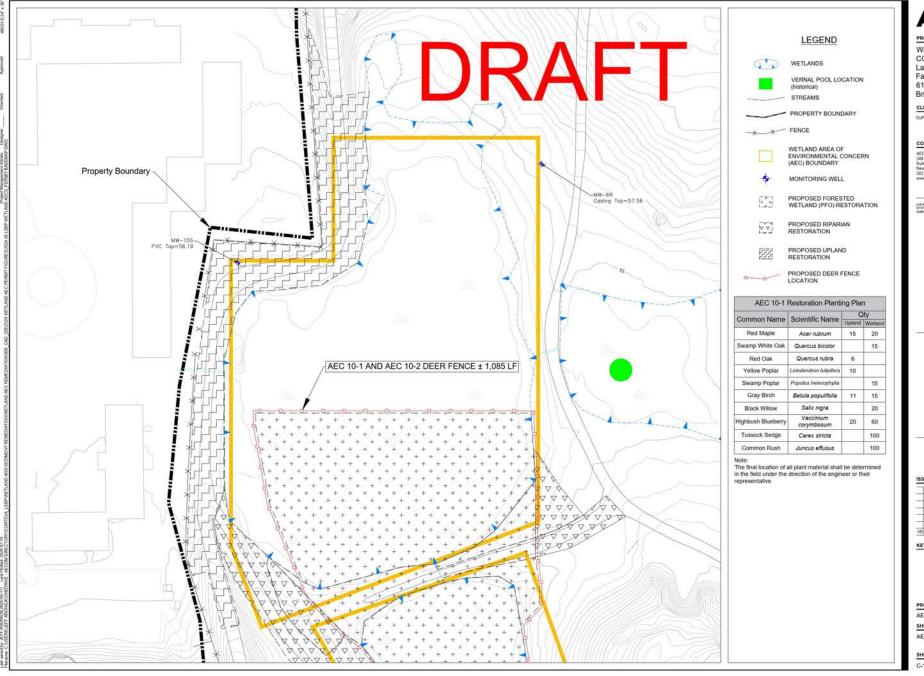




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AEC 1-11 Restoration Plan





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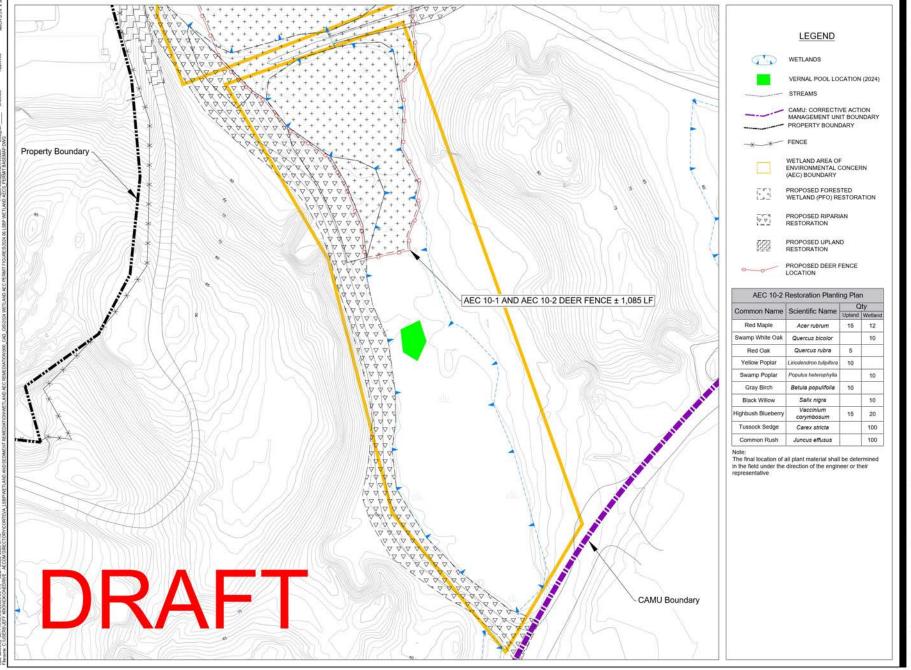
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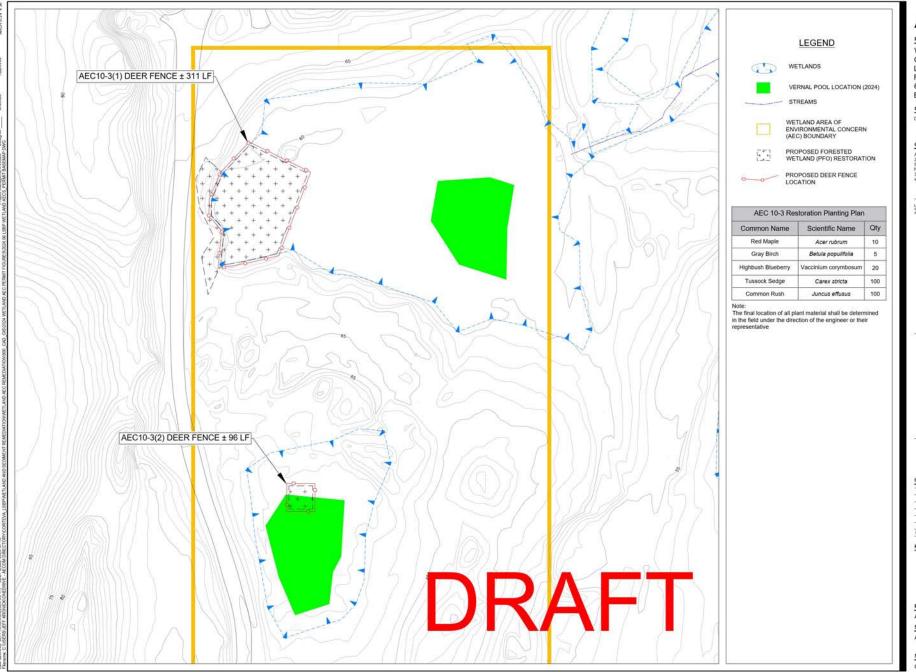
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AEC 10-2 Restoration Plan

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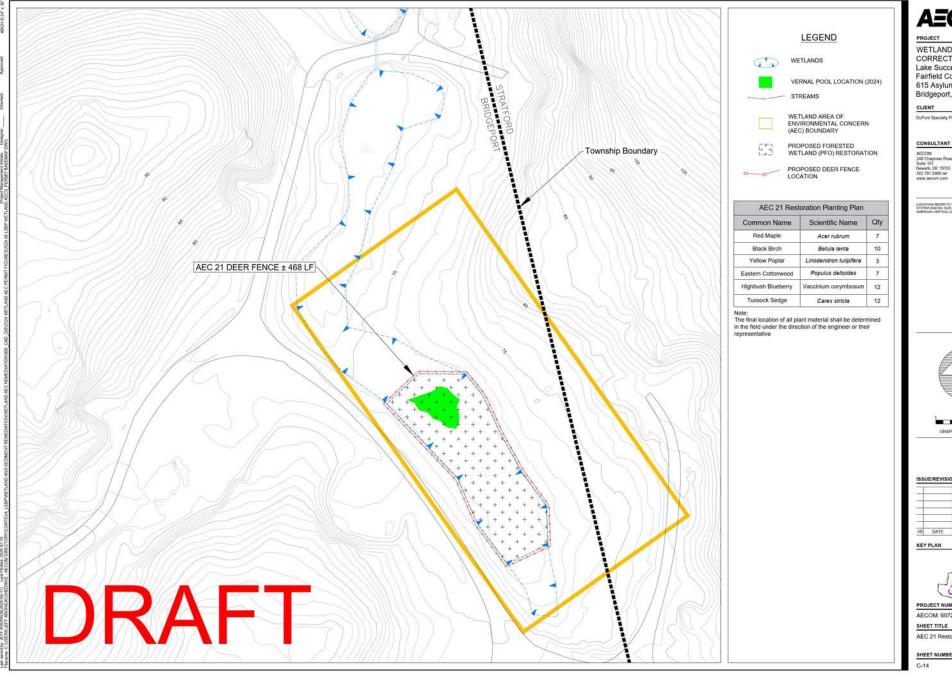
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