

Jason Hoover National Railroad Passenger Corporation (Amtrak) 360 West 33rd Street New York, NY 10001

SUBJECT: License #202304021-WQC FCC

Connecticut River Amtrak Bridge (MP 106.89), Old Lyme & Old Saybrook

Dear Mr. Hoover:

Please find attached a copy of your subject license and relevant enclosures which are being issued pursuant to your application of May 8, 2023. Your attention is directed to the conditions of the license. All work must conform to that which is specifically authorized.

Any work in regulated areas of the State which has not been authorized by a valid license is a violation of state law and subject to enforcement action by the Department of Energy & Environmental Protection and the Office of the Attorney General.

Your initiation of authorized activities will be relied upon as your agreement to comply with the terms and conditions of the license.

If you have not already done so, you should contact your local Planning and Zoning Office and the U. S. Army Corps of Engineers to determine local and federal permit requirements on your project, if any. Write the Corps' New England District, Regulatory Branch, 696 Virginia Road, Concord, MA 01742-2751; http://www.nae.usace.army.mil/ or call 1-800-343-4789.

If you should have any questions or concerns, please contact me at 860-424-3674 or micheal.grzywinski@ct.gov.

Sincerely,

Micheal P. Grzywinski, Environmental Analyst III

Land & Water Resources Division

Bureau of Water Protection & Land Reuse

Enclosure – License

Email to:

Jason Hoover, Amtrak, <u>Jason.hoover@amtrak.com</u>

Chris Vonderweidt, Stantec, Christopher.vonderweidt@stantec.com

Ryan Appanovich, AECOM, ryan.appanovich@aecom.com

Timothy Griswold, Old Lyme First Selectman, tgriswold@oldlyme-ct.gov

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Peter Francis, CT DEEP Boating Division, peter.francis@ct.gov

Karen Michaels, DEEP LWRD, karen.michaels@ct.gov









Connecticut Department of Energy and Environmental Protection License*

Section 401 Water Quality Certification Federal Coastal Consistency Concurrence

Licensee(s): National Railroad Passenger

Corporation (Amtrak), c/o Jason

Hoover

Licensee Address(s): 360 West 33rd Street

New York, NY 10001

License Number(s): 202304021-WQC FCC

Municipality: Town of Old Lyme and Town of Old Saybrook

Project Description: Construction of a new railroad bridge and the removal of the

existing Amtrak Connecticut River Bridge.

Project Address/Location: Connecticut River Bridge No. MB 106.89

Waters: Connecticut River and Lieutenant River

Authorizing CT Statute(s) CGS Section 22a-359 to 363g; CGS Section 22a-28 to 35; CGS

and/or Federal Law: Section 22a-90 to 112; Section 401 CWA (33 USC 1341); CZMA

307(c)(1), 15 CFR 930

Applicable Regulations of 22a-30-1 to 17, 22a-426-1 to 9

CT State Agencies:

Agency Contact: Land & Water Resources Division,

Bureau of Water Protection & Land Reuse, 860-424-3019

License Expiration: Ten (10) years from the date of issuance of this license.

An Affirmative Action/Equal Opportunity Employer







^{*}Connecticut's Uniform Administrative Procedure Act defines License to include, "the whole or part of any agency permit, certificate, approval, registration, charter or similar form of permission required by law . . ."

Project Site Plan Set: Three sets of plans prepared by Hardesty & Hanover, LLC and

collectively totaling one hundred fifty-eight (158) sheets including: a plan set entitled "ENVIRONMENTAL AND PERMIT PLANS" dated May 2, 2023; a plan set entitled "Replacement of Amtrak Connecticut River Bridge (MP 106.89) Tidal Marsh Mitigation Design 3.25-Acre Site" dated April 7, 2023; and a plan set entitled "Replacement of Amtrak Connecticut River Bridge (MP 106.89) Tidal Marsh Mitigation Design 17

Shore Road Site" dated April 7, 2023.

License Enclosures: LWRD Dredging and General Conditions; LWRD Dredging

Report; LWRD Work Commencement Form; LWRD Compliance

Certification Form; Site Plan Set

Authorized Activities:

The Licensee is hereby authorized to conduct the following work as described in application # 202304021-WQC FCC and as depicted on any site plan sheets / sets cited herein:

Construct a new bascule railroad bridge over the Connecticut River between Old Saybrook and Old Lyme, 52 feet south of the existing bridge location, with a two-track, electrified railroad movable bridge, approach spans, and at-grade approaches on either side of the river that tie into the existing railroad. Remove the existing Amtrak Connecticut River bridge between Old Saybrook and Old Lyme, including the superstructure, substructure elements, submarine cables, overhead contact systems, and all decommissioned track and rail systems. Remove and rebuild the CTDEEP Ferry Landing State Park boardwalk within the Connecticut River. Conduct compensatory wetland restoration and invasive species control.

Construction Mobilization and Access Activities [Phase I A/B]

- 1. Mobilize, clear and grub site, begin setting up temporary environmental controls, and install security safeguards within areas identified on the plans;
- 2. Relocate 480V-60HZ power to north side of tracks on embankment in upland areas at Block Point (BP) 107.6;
- 3. Initiate temporary access from existing access points in Old Saybrook and Old Lyme consisting of the following elements:
 - a. Old Saybrook (west) temporary access includes:
 - Improve existing upland access from Route 1 (Boston Post Road) through 60 Boston Post Road (N/F Gladeview LLC) and 70 Mulcahy Road/80 Mulcahy Road (N/F Lab Realty LLC) to Amtrak right-of-way ("ROW");
 - ii. Widen the existing upland access road to 14' wide by 3000' long along the north side of embankment within the Amtrak ROW to the temporary west abutment trestle work platform;
 - iii. Using water-based equipment, perform dredging for a 50'wide by 200'long barge access and mooring adjacent to temporary trestle work platform located on the west side of the Connecticut River and dredge to the design depth of -10.11' MLLW (-12.00' NAVD88) with an

- allowable 1' over-dredge depth to an elevation of -11.11' MLLW (-13.0' NAVD88). Remove approximately 1820 cubic yards of dredged material (excluding an approximately 310 cubic yards of allowable over-dredge);
- iv. Construction of a temporary trestle work platform with a minimum deck elevation of +5.3' NAVD88 at the western abutment;
- v. Construction of a temporary access road south of the existing embankment; including temporary impacts of approximately 7,199 square feet through a temporary easement at N/F State of Connecticut Ragged Rock Creek Wildlife Management Area ("WMA");
- b. Old Lyme (east) temporary access includes:
 - i. Improve existing upland access road from Route 156 (Shore Road) through 17 Shore Road to Amtrak ROW;
 - ii. Construct a new temporary 14' wide by 7,400' long upland access road along the north side of embankment within the Amtrak ROW from 17 Shore Rd to east abutment temporary trestle work platform;
 - iii. Construct a temporary trestle bridge with a minimum low chord elevation of +12.5' NAVD88 over the Lieutenant River;
 - iv. Close and demolish the Ferry Landing State Park Boardwalk;
 - v. Using water-based equipment, perform dredging for a 50' wide by 200' long barge access and mooring adjacent to temporary trestle work platform located on the east side of the Connecticut River and dredge to the design depth of -10.11' MLLW (-12.00' NAVD88) with an allowable 1' over-dredge depth to an elevation of -11.11' MLLW (-13.0' NAVD88). Remove approximately 4,980 cubic yards of dredged material (excluding an approximately 940 cubic yards of allowable over-dredge);
 - vi. Temporarily impact approximately 5,312 square feet of wetlands for construction of a temporary trestle work platform (with a minimum deck elevation of +5.3' NAVD88) at east abutment and construction of temporary access road on south side of embankment accessed through a temporary easement at N/F State of Connecticut Ferry Landing State Park;
 - vii. Construct an upland temporary parking area as mitigation for planned use of existing parking areas during construction at CTDEEP Marine Headquarters at N/F State of Connecticut Ferry Landing State Park;
 - viii. Construct an upland temporary staging area at N/F State of Connecticut Ferry Landing State Park;
- 4. Begin implementation of mitigation measures defined under other phases which shall include, but not be limited to, the construction of exclusion barriers, excavation and transportation of state-listed plant species to an identified 3.25-acre mitigation site, the installation of fencing to protect sensitive areas, construction of measures to mitigate the loss of recreational fishing, treatment of *Phragmites australis*, and initial wetland mitigation activities to permit construction access;

- 1. Install temporary facilities for the existing bridge and rail necessary to accommodate construction of the new bridge and rail on the south side of the existing bridge. This includes, but is not limited to:
 - a. Install temporary movable bridge power and control systems;
 - b. Install temporary bridge electrification and communications and signals ("C&S") cable rerouting via aerial cables;
 - c. Install temporary aerial cable towers supported on existing bridge piers 5, 6 and 7;
 - d. Install temporary case C on platform between existing pier 6 and 7;
 - e. Install temporary C&S ESIC case on existing pier 5;
 - f. Install additional temporary C&S equipment located on the existing bridge;
 - g. Install temporary cable, trough, duct banks, vaults, and pull boxes on the existing bridge;
 - h. Move and/or protect southside high voltage line that is mounted on the south fascia of the existing bridge approach spans;
 - i. Install a temporary operator's shanty and access platforms between existing bridge piers 6 and 7;

Major Construction Phase (Navigation Channel Width Reduced) [Phase I C/D/E, Phase II, Phase III]

- 1. Initiate construction on the eastern approach embankment and western approach embankment including embankment scour protection, including:
 - a. Install temporary erosion and sedimentation controls and temporary support of excavation;
 - b. Excavate for riprap embankment scour protection key-in and for unsuitable material under embankment;
 - c. Install free-draining material and construct embankment with embankment scour protection;
 - d. Install surcharge material in sequencing as specified on plans on the western approach;
- 2. Construct cast-in-place concrete west abutment;
 - a. Install turbidity curtain;
 - b. Install a cofferdam and construct a 6' diameter drilled shaft foundation;
 - c. Construct a 50' wide by 30' long cast-in-place concrete footing;
 - d. Construct cast-in-place concrete abutment stem and wingwalls;
- 3. Construct cast-in-place concrete east abutment;
 - a. Install turbidity curtain;
 - b. Install cofferdam;
 - c. Construct a 50' wide by 30' long cast-in-place concrete spread footing;
 - d. Construct cast-in-place concrete abutment stem and wingwalls;
- 4. Construct Bridge Piers 1-5;
 - a. Install turbidity curtains:
 - b. Erect 14' wide by 54' long integral precast concrete cofferdams at Piers 1-5;
 - c. Install 6' diameter drilled shafts for Piers 1-4 and an 8' diameter drilled shaft for Pier 5;
 - d. Construct cast-in-place concrete pile caps, pier stems and pier caps;
- 5. Construct Pier 6;

- a. Install turbidity curtains;
- b. Erect a 30' wide by 64' long trapezoidal integral precast concrete cofferdam;
- c. Install 8' diameter drilled shafts;
- d. Construct cast-in-place concrete pile caps, pier stems and pier caps;
- 6. Construct Pier 8 and control house pier;
 - a. Install turbidity curtains;
 - b. Erect a 14' wide by 54' long integral precast concrete cofferdam at Pier 8;
 - c. Erect a 25' wide by 32' long integral precast concrete cofferdam at the Control House pier;
 - d. Install 8' diameter drilled shafts for Pier 8 and 4' diameter drilled shafts for control house pier;
 - e. Construct cast-in-place concrete pile caps, pier stems and pier caps;
- 7. Construct Pier 9;
 - a. Install turbidity curtain;
 - b. Install cofferdam;
 - c. Install rock anchors;
 - d. Construct a 14' wide by 54' long cast-in-place concrete spread footing;
 - e. Construct cast-in-place concrete pier stems and pier caps.
- 8. Construct West Approach Retaining Wall.
 - a. Install turbidity curtain;
 - b. Install cofferdam;
 - c. Install five hundred forty-six (546) 14" wide steel H-piles over an approximately 14,000 square foot area;
 - d. Construct a 36' wide by 391' long cast-in-place concrete footing;
 - e. Construct cast-in-place concrete retaining wall stem;
 - f. Excavate for riprap wall scour protection key-in at west abutment and retaining wall;
 - g. Install riprap wall scour protection at west abutment and retaining wall;
- 9. Construct East Approach Retaining Wall
 - a. Install turbidity curtain;
 - b. Install cofferdam;
 - c. Construct a 31' wide by 433' long cast-in-place concrete spread footing;
 - d. Construct cast-in-place concrete retaining wall stem;
 - e. Excavate for riprap wall scour protection key-in at east abutment and retaining wall;
 - f. Install riprap wall scour protection at east abutment and retaining wall;
- 10. Reduce the width of the existing navigation channel at the bridge from approximately 139' wide to 129' wide;
- 11. Demolish a portion of the existing west side and east side timber fender systems behind turbidity curtain and fully remove the timber piles;
- 12. Construct portion of west side and east side concrete filled drilled shaft fender systems;
 - a. Install turbidity curtain;
 - b. Install approximately sixty-two (62) 3' diameter drilled shafts;
 - c. Construct a steel and composite lumber fender fencing;
- 13. Construct foundation and substructure of bascule Pier 7;
 - a. Install turbidity curtain
 - b. Erect a 48' wide by 59' long octagon-shaped precast concrete cofferdam;

- c. Install 8' diameter drilled shafts;
- d. Construct cast-in-place concrete pile caps and pier stems including approach span bridge seat and corbels for outrigger column bases;
- 14. Construct bridge approach spans superstructure;
 - a. Cast-in-place concrete composite deck on six (6) steel girders;
 - b. Typical out-to-out structure width of 38';
 - c. Span lengths (measured from centerline of piers);
 - i. Span 1: 156-ft;
 - ii. Spans 2,3,4 and5: 158-ft;
 - iii. Span 6: 135-ft;
 - iv. Span 7 (bascule span): 206-ft-6-in
 - v. Span 8: 173-ft-9in;
 - vi. Span 9: 158-ft;
 - vii. Span 10: 156-ft;
- 15. Construct a new cast-in-place concrete control house built on stand-alone pier adjacent to bridge Pier 8;
- 16. Install pre-assembled and wired signal enclosures on the ROW and construct C&S facilities on approaches and bridge approach spans. Install all permanent trough, cable, conduit, or duct banks necessary between new locations. Install all temporary cable routing between the new C&S Central Instrument House ("CIH");
- 17. Erect two (2) steel box column trunnion towers (north and south) with seven (7) columns per tower anchored to the top surface of the concrete Pier 7;
- 18. Remove existing submarine cables and install permanent submarine and mounted cables. Submarine cables include two (2) bridge control cables, six (6) C&S cables, and an electric traction (ET) umbilical cable. Excavate and fill approximately 3,300 CY of material for submarine cable trench. Remove existing submarine cables and install permanent submarine and mounted cables, including two (2) bridge control cables, six (6) C&S cables, and an ET umbilical cable and excavate and fill approximately 3,300 CY of material for submarine cable trench;
- 19. Construct storm drainage systems at western approach including two (2) 24" reinforced concrete pipe ("RCP") stormwater outfalls;
- 20. Construct approximately 10,900 linear feet of trackwork and overhead catenary systems on approaches (including concrete foundations, poles, portal structures, and contact structures) and bridge approach spans in upland area;
- 21. Float-in forward portion of bascule span and connect bascule forward and rear portions;
- 22. Construct, on the new upland approach embankments, the new 2 track, electrification and associated C&S tie-ins at east and west ends of project;

Demolition Phase (Phase IV)

- 1. Demolish the existing movable span counterweights;
- 2. Deconstruct and/or remove and float-out an existing bascule span using water-based equipment;
- 3. Demolish the existing nine (9) bridge approach spans using a combination of water-based and trestle-based equipment;
- 4. Demolish existing bridge substructures and foundations designated for removal;
 - a. Install turbidity curtain;
 - b. Demolish piers within previously installed cofferdams;

- c. Granite piers to be removed below the mudline to the vertical limits shown on the plans (minimum 2 ft below the mudline);
- 5. Complete fender system construction with a 150' wide navigation channel;
 - a. Install turbidity curtain;
 - b. Install approximately thirty-four (34) 3' diameter drilled shafts within previously installed cofferdams;
 - c. Construct steel and composite lumber fender fencing;
- 6. Remove all remaining track and rail systems facilities no longer in service within the existing upland Amtrak ROW;
- 7. Remove an existing metal walkway and piles from the CT DEEP Ferry Landing parking lot to Amtrak ROW;
- 8. Install subsurface electrical, water, and sanitary utilities between the CT DEEP Ferry Landing parking lot and the Amtrak ROW;
- 9. Install a replacement metal walkway with piles from the CT DEEP Ferry Landing parking lot to the Amtrak ROW;
- 10. Install utility structures on grade and connect permanent electrical service for the new bridge consisting of the following elements:
 - a. Water tank (below grade) in the upland area;
 - b. Sanitary tank (below grade) in the upland area;
 - c. Sanitary waste and water ports in the upland area;
 - d. Stand-by generator and fuel tank (above grade) in the upland area;
 - e. Incoming service transformer, disconnect switch and meters in the upland area.
- 11. Construct a new publicly accessible Ferry Landing State Park boardwalk as shown on plan sheet FM-01 and consisting of the following elements:
 - a. Approximately twenty-three (23) spread footings;
 - b. An approximately 12' wide by 1026' long boardwalk structure with a top of deck elevation of approximately + 9.1' NAVD88 and railings;
- 12. Remove all temporary construction facilities, including but not limited to construction trailers and parking, access roads, erosion and sedimentation controls, trestle bridges, and mooring facilities;
- 13. Restore site in accordance with the requirements of the project environmental permit applications:
 - a. Evaluate temporary impacts to vegetated intertidal wetlands once temporary facilities have been removed based on existing condition data collected prior to beginning work;
 - b. Perform any required remedial activities including placement of additional wetland topsoil to restore any areas that do not match restoration criteria in the permit applications and installation of native tidal vegetation;
 - c. Conduct 3 years of post-construction monitoring of temporarily impacted tidal wetland impact areas and perform any remedial activities that may be required, including *Phragmites australis* treatment;

Barge Occupancy -

1. Barge operations shall be limited to occupancy zones delineated in the permit plans defined as extending approximately 250-feet to the north and 350-feet to the south of the centerline of the proposed tracks;

- 2. On-site barges will be moored in designated dredged areas south of the east and west abutments as shown on plan sheet SC-01;
- 3. Off-site barges mooring locations will be determined in accordance with United States Coast Guard regulations (CFR Title 33);

Mitigation Activities

17 Shore Road

- 1. Construct an 80' long box type culvert with an 8' height and 10' width hydraulic opening under the access road located at 17 Shore Road in Old Lyme, CT;
- 2. Decommission and fill the existing structurally deficient Amtrak culvert located under the existing Amtrak railroad embankment;
- 3. Construct an approximately 15' wide temporary access road;
- 4. Conduct herbicide control of *Phragmites australis*;
- 5. Excavation of approximately 1' of material from the entirety of the limits shown on the plans for the work on southeast side;
- 6. Excavation and grading for two (2) tidal pools and associated network of tidal creeks to connect with the new culvert in accordance with plan sheets C-101 and C-102 of the 17 Shore Road Tidal Marsh Mitigation Plan Set;
- 7. Placement of wetland topsoil to establish final lines and grades shown on the plans referenced in Item 6, above, for the appropriate tidal habitat to be restored;
- 8. Install native intertidal brackish wetland plants 18" on center within approximately 3.94 acres of restored habitat in accordance with planting plan C-103;
- 9. Perform monitoring of the mitigation site for 5 years with additional *Phragmites australis* treatment as determined necessary in annual monitoring;

3.25-Acre Mitigation Site

- 1. Utilize work boats and barges to mobilize equipment to the sites;
- 2. Conduct herbicide control of *Phragmites australis* and demarcate work areas;
- 3. Install environmental controls and establish temporary access routes and landing areas;
- 4. Plug three (3) existing mosquito ditches using salvaged marsh material or approved marsh substrate fill in accordance with plan sheet C-101 of the 3.25 Acre Site Tidal Marsh Mitigation Plan Set;
- 5. Excavate approximately 4,000 square feet of marsh edge to establish the transplant area for state-listed plant species;
- 6. Install state-listed plant species that were removed from bridge impact areas according to mitigation plan, with continued monitoring;
- 7. Restore temporarily disturbance areas to pre-construction conditions, including but not limited to remove temporary fill, stabilize disturbed areas, aerate compacted soil, and install native tidal wetland vegetation;
- 8. Perform monitoring of the mitigation site for 5 years with additional *Phragmites australis* treatment as determined necessary in annual monitoring; and

Phragmites Control at Ragged Rock Creek WMA

1. Survey Ragged Rock Creek Wildlife Management Area ("WMA") site for state-listed plant species, demarcate exclusion and buffer areas, and conduct herbicide control of *Phragmites australis* over a 3-year duration for the approximate 200-acre area WMA.

Conduct 1 year of monitoring during Year 4 and conduct 1 year of follow-up spot treatments if needed during Year 5.

Failure to comply with the terms and conditions of this license shall subject the Licensee and / or the Licensee's contractor(s) to enforcement actions and penalties as provided by law.

This license is subject to the following Terms and Conditions:

- 1. **License Enclosure(s) and Conditions.** The Licensee shall comply with all applicable terms and conditions as may be stipulated within the License Enclosure(s) listed above.
- 2. The Licensee shall dispose of the dredged material authorized herein in accordance with all applicable requirements of Chapter 446k Water Pollution Control, Chapter 445 Hazardous Waste, and Chapter 446d Solid Waste of the Connecticut General Statutes.
- 3. Prior to the driving of piles, steel sheeting or shaft casings authorized herein, the Licensee shall install full-depth turbidity curtains.
- 4. The Licensee shall only use vibratory hammers from April 1st through June 30th, inclusive of any calendar year in order to protect diadromous fish unless otherwise authorized in writing by the Commissioner. The Licensee may use impact hammers outside of this timeframe.
- 5. Construction or demolition of the piers shall be limited to either the western-most three (3) piers (Piers 1, 2 and 3) or the easternmost three (3) piers (Piers 7, 8 and 9) during the diadromous finfish spring migration period from April 1st through June 30th, inclusive of any calendar year unless otherwise authorized in writing by the Commissioner. At no time during this period shall in-water construction or demolition occur in the middle of the Connecticut River or simultaneously at more than three (3) piers.
- 6. The Licensee shall limit the use of artificial lighting to navigation lights and railroad operation lighting from April 1st through June 30th, inclusive of any calendar year unless otherwise authorized in writing by the Commissioner.
- 7. All non-vibratory pile driving and pile extraction (cutting/pulling) authorized herein is prohibited between April 1st through June 30th, inclusive, of any calendar year unless otherwise authorized in writing by the Commissioner.
- 8. The Licensee shall remove all timber piles and stone piers to a minimum of 2' below the existing mud line.
- 9. All unconfined dredging authorized herein shall be prohibited between April 1st through June 30th, inclusive of any calendar year to protect finfish unless otherwise authorized in writing by the Commissioner.
- 10. Use of a hoe ram shall be prohibited between April 1st through June 30th, inclusive of any calendar year to protect diadromous finfish unless otherwise authorized in writing by the Commissioner.
- 11. All work associated with the drilling of piles, driving sheet piles or shaft casing shall be prohibited from sunset to sunrise from April 1st through June 15th, inclusive of any calendar

- year to protect commercial shad fishing unless otherwise authorized in writing by the Commissioner.
- 12. Prior to the commencement of the work authorized herein, the Licensee shall coordinate with DEEP Fisheries Division staff to obtain a list of shad fishermen and shall provide those fishermen with a schedule of planned activities that may impact the commercial shad fishery.
- 13. All construction-related activities, including, but not limited to drilling piles, driving sheet piles or shaft casing which exceed 90db (measured at the water surface) shall be prohibited from sunset to sunrise between April 1st through June 15th, inclusive of any calendar year to protect commercial shad fishing unless otherwise authorized in writing by the Commissioner.
- 14. The Licensee shall rebuild the Ferry Landing State Park public access boardwalk/fishing pier with observation deck and stairway in the location as shown on the plans attached hereto prior to the expiration of this license.
- 15. Installation and removal of the temporary trestle bridge over the Lieutenant River shall be prohibited between March 1st through June 1st, inclusive of any calendar year to protect diadromous finish unless otherwise authorized in writing by the Commissioner.
- 16. Prior to the commencement of the work authorized herein, the Licensee shall obtain all necessary approvals from the CT DEEP Land Acquisition & Management Unit.
- 17. Prior to the commencement of the work authorized herein the Licensee shall obtain all necessary approvals from the CT DEEP Stormwater Division.
- 18. Prior to the expiration of this License, the Licensee shall legally acquire the property identified as 17 Shore Road and perform the wetland mitigation measures authorized herein.
- 19. The Licensee shall follow the approved protocols to protect Northern diamondback terrapin (*Malaclemys t. terrapin*) during the active nesting season from April 1st through October 31st, inclusive of any calendar year in accordance with CT DOT Section 1.1 Environmental Compliance.
- 20. The issuance of this License does not relieve the Licensee of their obligations to obtain any other approvals required by applicable federal, State, and local law, including discharge permits for water handling.
- 21. The Licensee shall ensure that no debris enters the Connecticut River during the work authorized herein and shall immediately remove any debris that enters the water.
- 22. The Licensee shall install and maintain the sedimentation and erosion controls and the debris shield in optimal condition during the work authorized herein.
- 23. The Licensee shall conduct the activities identified in the Mitigation Areas authorized herein. In addition, the Licensee shall for the duration of the construction project following completion of the tidal wetland planting work described in the **Authorized Activities**, above, conduct the following maintenance procedures: 1) remove any debris such as garbage, floatables or excessive decayed plant material from the mitigation areas during the duration of the construction activities; 2) replace dead or missing plants up to one-year after their planting which have not already been compensated for by a suitable volunteer

- species. The Licensee shall submit to the Commissioner no later than December 15th of each year following such procedures, documentation that indicates that such work has been completed.
- 24. The Licensee shall post a Notice to Mariners identifying closures of the Connecticut River federal navigation channel in coordination with the United States Coast Guard.
- 25. The Licensee shall install temporary aids to navigation at each barge mooring location authorized herein in coordination with the United States Coast Guard.
- 26. At no time shall the Licensee allow the barge or equipment to rest on the substrate. Any such barge must move to deeper waters during periods of low water in the area of the proposed activity. It shall not be a defense to this provision for the Licensee to assert that it has no control over the operation of the barge.

Issued under the authority of the Commissioner of Energy and Environmental Protection on:

May 21, 2024

Date

Emma Cimino

Deputy Commissioner

Emma Cimino

Department of Energy & Environmental Protection



LWRD Dredging and General Conditions

- 1. Time-of-Year Restriction. Unless otherwise noted in the License, unconfined in-water excavation, dredging, filling or removal of debris or other material is prohibited, inclusive, in any year from June 1 through September 30 in order to protect spawning shellfish in the area unless otherwise authorized in writing by the Commissioner.
- 2. **Dredging Report.** Not later than two (2) weeks subsequent to the completion of any dredging activity authorized herein, the Licensee shall submit to <u>DEEP.LWRDRegulatory@ct.gov</u> a completed Dredging Report. A separate form shall be submitted by the Licensee for each distinct dredging activity conducted pursuant to this license.
- 3. **Bottom Disturbance.** Dragging the bottom with a spoil barge, scow, vessel, beam or similar equipment outside of any authorized area is prohibited.
- 4. Material Handling. Sidecasting or in-water rehandling of dredged or excavated material is prohibited.
- 5. Barge Control. Spoil scows or barges shall be loaded and navigated in a manner which prevents uncontrollable motion or spillage and washout of dredged or excavated materials.
- 6. Sale of Sediment. Sediment dredged pursuant to the license shall not be sold nor shall any fee for its use be charged without the express prior written authorization of the Commissioner and payment of a \$4.00 per yard royalty to the state of Connecticut Department of Energy & Environmental Protection, pursuant to CGS section 22a-361(e).
- 7. **Sediment Disposal.** The Licensee shall dispose of aquatic sediments in accordance with the terms and conditions of the license.
- 8. Submission of As-Dredged Plans. On or before ninety (90) days after completion of the work authorized herein, the Licensee shall submit to DEEP.LWRDRegulatory@ct.gov an "asdredged" survey of the work area showing contours, bathymetries, tidal datums and structures, as applicable. Such survey shall be the original one and be signed and sealed by an engineer, surveyor or architect, as applicable, who is licensed in the State of Connecticut.

Open Water Disposal, if authorized in Project Description

- 1. Material Disposal. The Licensee shall dispose of dredged or excavated material in accordance with the requirements of the United States Army Corps of Engineers-New England District, except that if the authorized disposal site is modified, the Licensee shall submit a request for modification of the location to the Commissioner and shall not dispose of the material until such location modification has been approved in writing by the Commissioner.
- 2. **Disposal Site / Use Modification.** The Commissioner may modify the authorized disposal site



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and direct dredged sediment to an alternate site for use as cap material, provided that no modification will take effect if such modification imposes uncompensated additional costs solely attributable to such modification on the Licensee.

- 3. **Disposal Monitoring.** The Licensee shall not dispose of dredged or excavated material unless said disposal is supervised and witnessed by an on-board inspector or documented by an automated disposal monitoring program approved by the United States Army Corps of Engineers-New England District.
- 4. **Barge Navigation.** Spoil scows or barges used by the Licensee for disposal of dredged or excavated material shall travel to and from the authorized disposal site utilizing sea lanes defined by the United States Army Corps of Engineers-New England District.
- 5. **Point Dumping.** The Licensee shall point-dump dredged or excavated materials at a specified buoy or set of coordinates identified by United States Army Corps of Engineers-New England District within the authorized disposal site.

LWRD General Conditions

- 1. Land Record Filing. The Licensee shall file the Land Record Filing on the land records of the municipality in which the subject property is located not later than thirty (30) days after license issuance pursuant to Connecticut General Statutes (CGS) Section 22a-363g. A copy of the Notice with a stamp or other such proof of filing with the municipality shall be submitted to DEEP.LWRDRegulatory@ct.gov no later than sixty (60) days after license issuance. If a Land Record Filing form is not enclosed and the work site is not associated with an upland property, no filing is required.
- 2. Contractor Notification. The Licensee shall give a copy of the license and its attachments to the contractor(s) who will be carrying out the authorized activities prior to the start of construction and shall receive a written receipt for such copy, signed and dated by such contractor(s). The Licensee's contractor(s) shall conduct all operations at the site in full compliance with the license and, to the extent provided by law, may be held liable for any violation of the terms and conditions of the license. At the work site, the contractor(s) shall, whenever work is being performed, have on site and make available for inspection a copy of the license and the authorized plans.
- **3.** Work Commencement. Not later than two (2) weeks prior to the commencement of any work authorized herein, the Licensee shall submit to DEEP.LWRDRegulatory@ct.gov, on the Work Commencement Form attached hereto, the name(s) and address(es) of all contractor(s) employed to conduct such work and the expected date for commencement and completion of such work, if any.
 - For water diversion activities authorized pursuant to 22a-377(c)-1 of the Regulations of Connecticut State Agencies, the Licensee shall also notify the Commissioner in writing two weeks prior to initiating the authorized diversion.
 - For emergency activities authorized pursuant Connecticut General Statutes Section 22a-6k, the Licensee shall notify the Commissioner, in writing, of activity

commencement at least one (1) day prior to construction and of activity completion no later than five (5) days after conclusion.

- **4.** License Notice. The Licensee shall post the first page of the License in a conspicuous place at the work area while the work authorized therein is undertaken.
- **5.** Unauthorized Activities. Except as specifically authorized, no equipment or material, including but not limited to, fill, construction materials, excavated material or debris, shall be deposited, placed or stored in any wetland or watercourse on or off-site. The Licensee may not conduct work within wetlands or watercourses other than as specifically authorized, unless otherwise authorized in writing by the Commissioner. Tidal wetlands means "wetland" as defined by section 22a-29 and "freshwater wetlands and watercourses" means "wetlands" and "watercourses" as defined by section 22a-38.
- **6.** Excavated Materials. Unless otherwise authorized, all excavated material shall be staged and managed in a manner which prevents additional impacts to wetlands and watercourses.
- 7. **Best Management Practices.** The Licensee shall not cause or allow pollution of any wetlands or watercourses, including pollution resulting from sedimentation and erosion. In constructing or maintaining any authorized structure or facility or conducting any authorized activity, or in removing any such structure or facility, the Licensee shall employ best management practices to control storm water discharges, to prevent erosion and sedimentation, and to otherwise prevent pollution of wetlands and other waters of the State. For purposes of the license, "pollution" means "pollution" as that term is defined by CGS section 22a-423. Best Management Practices include, but are not limited, to practices identified in the *Connecticut Guidelines for Soil Erosion and Sediment Control* as revised, 2004 Connecticut Stormwater Quality Manual, Department of Transportation's ConnDOT Drainage Manual as revised, and the Department of Transportation Standard Specifications as revised.
- 8. In-Water Work Vessel Staging and Storage. (for Structures Dredging & Fill, Tidal Wetlands, Certificate of Permission, and Long Island Sound General Permit Licenses only). For any barge, vessel, skiff or floating work platform ("work vessels") utilized in the execution of the work authorized herein, the Licensee shall ensure that such work vessels:
 - do not rest on, or come in contact with, the substrate at any time, unless specifically authorized in the license.
 - are not stored over intertidal flats, submerged aquatic vegetation or tidal wetland vegetation or in a location that interferes with navigation. In the event any work vessel is grounded, no dragging or prop dredging shall occur to free it.
- **9.** Work Site Restoration. Upon completion of any authorized work, the Licensee shall restore all areas impacted by construction, or used as a staging area or accessway in connection with such work, to their condition prior to the commencement of such work.
- **10. Inspection.** The Licensee shall allow any representative of the Commissioner to inspect the project location at reasonable times to ensure that work is being or has been conducted in accordance with the terms and conditions of this license.

11. Change of Use. (Applies only if a use is specified within the License "Project Description")

- a. The work specified in the license is authorized solely for the purpose set forth in the license. No change in purpose or use of the authorized work or facilities as set forth in the license may occur without the prior written approval of the Commissioner. The Licensee shall, prior to undertaking or allowing any change in use or purpose from that which is authorized by this license, request permission from the Commissioner for such change. Said request shall be in writing and shall describe the proposed change and the reason for the change.
- b. A change in the form of ownership of any structure authorized herein from a rental/lease commercial marina to a wholly-owned common interest community or dockominium may constitute a change in purpose as specified in paragraph (a) above.
- 12. **De Minimis Alteration.** The Licensee shall not deviate from the authorized activity without prior written approval from the Commissioner. The Licensee may request a de minimis change to any authorized structure, facility, or activity. A de minimis alteration means a change in the authorized design, construction or operation that individually and cumulatively has minimal additional environmental impact and does not substantively alter the project as authorized.
 - For diversion activities authorized pursuant to 22a-377(c)-2 of the Regulations of Connecticut State Agencies, a de minimis alteration means an alteration which does not significantly increase the quantity of water diverted or significantly change the capacity to divert water.
- 13. Extension Request. The Licensee may request an extension of the license expiration date. Such request shall be in writing and shall be submitted to DEEP.LWRDRegulatory@ct.gov at least thirty (30) days prior to the license expiration. Such request shall describe the work done to date, what work still needs to be completed, and the reason for such extension. The Commissioner may extend the expiration date of this license for a period of up to one year, in order for the Licensee to complete the authorized activities. It shall be at the Commissioner's sole discretion to grant or deny such request. No more than three (3) one-year extensions will be granted under this license.
- **14.** No Work After License Expiration. Work conducted after the license expiration date is a violation of the license and may subject the licensee to enforcement action, including penalties, as provided by law.
- **15. License Transfer.** The license is not transferable without prior written authorization of the Commissioner. A request to transfer a license shall be submitted in writing and shall describe the proposed transfer and the reason for such transfer. The Licensee's obligations under the license shall not be affected by the passage of title to the license site to any other person or municipality until such time as a transfer is approved by the Commissioner.
- **16. Document Submission.** Any document required to be submitted to the Commissioner under the license or any contact required to be made with the Commissioner shall, unless otherwise specified in writing by the Commissioner, be directed to:

DEEP.LWRDRegulatory@ct.gov or

Regulatory Section
Land & Water Resources Division
Department of Energy and Environmental Protection
79 Elm Street
Hartford, Connecticut 06106-5127
860-424-3019

- 17. Date of Document Submission. The date of submission to the Commissioner of any document required by the license shall be the date such document is received by the Commissioner. The date of any notice by the Commissioner under the license, including but not limited to notice of approval or disapproval of any document or other action, shall be the date such notice is personally delivered or the date three (3) days after it is mailed by the Commissioner, whichever is earlier. Except as otherwise specified in the license, the word "day" as used in the license means calendar day. Any document or action which is required by the license to be submitted or performed by a date which falls on a Saturday, Sunday or a Connecticut or federal holiday shall be submitted or performed on or before the next day which is not a Saturday, Sunday, or a Connecticut or federal holiday.
- 18. Certification of Documents. Any document, including but not limited to any notice, which is required to be submitted to the Commissioner under the license shall be signed by the Licensee and by the individual or individuals responsible for actually preparing such document, each of whom shall certify in writing as follows: "I have personally examined and am familiar with the information submitted in this document and all attachments and certify that based on reasonable investigation, including my inquiry of those individuals responsible for obtaining the information, the submitted information is true, accurate and complete to the best of my knowledge and belief, and I understand that any false statement made in this document or its attachments may be punishable as a criminal offense."
- 19. Accuracy of Documentation. In evaluating the application for the license, the Commissioner has relied on information and data provided by the Licensee and on the Licensee's representations concerning site conditions, design specifications and the proposed work, including but not limited to representations concerning the commercial, public or private nature of the work or structures, the water-dependency of said work or structures, its availability for access by the general public, and the ownership of regulated structures or filled areas. If such information proves to be false, deceptive, incomplete or inaccurate, the license may be modified, suspended or revoked, and any unauthorized activities may be subject to enforcement action.
- **20.** Limits of Liability. In granting the license, the Commissioner has relied on all representations of the Licensee, including information and data provided in support of the Licensee's application. Neither the Licensee's representations nor the issuance of the license shall constitute an assurance by the Commissioner as to the structural integrity, the engineering feasibility or the efficacy of such design.
- 21. Reporting of Violations. In the event that the Licensee becomes aware that they did not or

may not comply, or did not or may not comply on time, with any provision of this license or of any document incorporated into the license, the Licensee shall immediately notify the agency contact specified within the license and shall take all reasonable steps to ensure that any noncompliance or delay is avoided or, if unavoidable, is minimized to the greatest extent possible. In so notifying the agency contact, the Licensee shall provide, for the agency's review and written approval, a report including the following information:

- a. the provision(s) of the license that has been violated;
- b. the date and time the violation(s) was first observed and by whom;
- c. the cause of the violation(s), if known;
- d. if the violation(s) has ceased, the duration of the violation(s) and the exact date(s) and times(s) it was corrected;
- e. if the violation(s) has not ceased, the anticipated date when it will be corrected;
- f. steps taken and steps planned to prevent a reoccurrence of the violation(s) and the date(s) such steps were implemented or will be implemented; and
- g. the signatures of the Licensee and of the individual(s) responsible for actually preparing such report.

If the violation occurs outside of normal business hours, the Licensee shall contact the Department of Energy and Environmental Protection Emergency Dispatch at 860-424-3333. The Licensee shall comply with any dates which may be approved in writing by the Commissioner.

- **22. Revocation/Suspension/Modification.** The license may be revoked, suspended, or modified in accordance with applicable law.
- **23. Other Required Approvals.** License issuance does not relieve the Licensee of their obligations to obtain any other approvals required by applicable federal, state and local law.
- **24. Rights.** The license is subject to and does not derogate any present or future property rights or powers of the State of Connecticut, and conveys no property rights in real estate or material nor any exclusive privileges, and is further subject to any and all public and private rights and to any federal, state or local laws or regulations pertinent to the property or activity affected hereby.
- **25. Condition Conflicts.** In the case where a project specific special condition listed on the license differs from, or conflicts with, one of the general conditions listed herein, the project specific special condition language shall prevail. It is the licensee's responsibility to contact the agency contact person listed on the license for clarification if needed prior to conducting any further regulated activities.



LWRD Work Commencement Form

To: DEEP.LWRDRegulatory@ct.gov or Regulatory Section Department of Energy and Environmental Protection Land & Water Resources Division 79 Elm Street Hartford, CT 06106-5127

Licensee Name:		_
Municipality in w	hich the project is occurring:	
DEEP License No	(s):	_
CONTRACTOR	a(s):	
Address:		
Address: Telephone: E-mail: # 3 Name:		
Date Contractor(s) of the license and a	1 7	
EXPECTED DAT	E OF COMMENCEMENT OF WORK: _	
EXPECTED DATE	E OF COMPLETION OF WORK:	
LICENSEE:	(Signature)	(Date)







LWRD DREDGING REPORT

(To be completed by Licensee)

Licensee Name:	
Business Phone:	
Dates Dredged: Total Volume Dredged during this periodic Disposal Volume(s) and Location(s):	iod:
	als was used in a beneficial manner, please identify the beneficial use type tion, landfill cap, construction materials), volume of dredged material isage.
and certify that based on reasonable involution obtaining the information, the submitted	amiliar with the information submitted in this document and all attachments vestigation, including my inquiry of those individuals responsible for ad information is true, accurate and complete to the best of my knowledge also statement made in this document or its attachments may be punishable
Signature of Licensee	Date
If you have any questions pertaining to 424-3034. Return to:	this form, please contact the Land & Water Resources Division at 860-







Compliance Certification Form

The following certification must be signed by the licensee working in consultation with a Connecticut-licensed design professional and must be submitted to the address indicated at the end of this form within ninety (90) days of completion of the authorized work.

1. Licensee Name:						
DEEP License Number(s):						
Municipality in which project is occurring:						
2. Check one:						
(a) If certify that the final site conditions and / or structures are in general conformance with the approved site plans". Identify and describe any deviations and attach to this form.						
(b) The final site conditions and / or structures are not in general conformance with the approved site plans. The enclosed "as-built" plans note the modifications".						
3. "I understand that any false statement in this certification is punishable as a criminal offence under section 53a-157b of the General Statutes and under any other applicable law."						
Signature of Licensee Date						
Name of Licensee (print or type)						
Signature of CT-Licensed Design Professional Date						
Name of CT-Licensed Design Professional (print or type)						
Professional License Number (if applicable) Affix Stamp Here						
 As-built plans shall include: elevations or tidal datums, as applicable, and structures, including any proposed elevation views and cross sections included in the approved license plans. Such as-built plans shall be the original ones and be signed and sealed by an engineer, surveyor or architect, as applicable, who is licensed in the State of Connecticut. 						
• The Licensee will be notified by staff of the Land and Water Resources Division (LWRD) if further compliance review is necessary. Lack of response by LWRD staff does not imply compliance.						
Submit this completed form to:						
<u>DEEP.LWRDRegulatory@ct.gov</u> or Regulatory Section						
Department of Energy and Environmental Protection						
Land & Water Resources Division 79 Elm Street						
Hartford, CT 06106-5127						











REPLACEMENT OF MB 106.89 **OVER CONNECTICUT RIVER** OLD SAYBROOK, CONNECTICUT

- GENERAL NOTES

 1. THESE PLANS ARE NOT FOR CONSTRUCTION AND ARE INTENDED ONLY FOR EMPRONMENTAL PERMITTING PURPOSES. THESE PLANS HOLD AUTHORITY FOR ALL ACTIVITIES CONCERNING THE REGULATED AREA. FOR DETAILED PARMETERIC MYORMATION AND PAYMENT, REFER TO THE APPLICABLE CONTRACT DOCUMENTS.
- AMTRAK WILL ONLY SUBMIT REVISIONS TO CIDEEP AND USAGE FOR CHANGES TO THE DESIGN THAT WILL AFFECT REGULATED AREAS.
- FOR A DESCRIPTION OF THE WATERCOURSES, WETLANDS, AND WETLAND SOILS SEE RELAVANT SECTIONS OF THE PERMIT APPLICATION.
- THE HORIZONTAL CONTROLS REFERENCE THE NORTH AMERICAN DATUM OF 1983 (NADS3) AND THE CONNECTICUT STATE PLANE COORDINATE SYSTEM, THE VERTICAL DATUM REFERENCE THE MORTH AMERICAN VERTICAL DATUM OF 1988 (NAVS86).
- 5. ALL CONSTRUCTION ACTIVITIES WILL BE CONDUCTED IN ACCORDANCE WITH THE CITOD STANDARD SPECIFICATIONS FOR ROADS, BRIDGES, FACILITIES AND INCIDENTAL CONSTRUCTION, FORM 818, SECTION 1,70 AND WILL ALSO FOLLOW REQUIRED BEST MANAGEMENT PRACTICES (BMPs) AND SEDIMENT AND EROSION CONTROL MEASURES IN ACCORDANCE WITH THE 2002 EROSION & SEDIMENTATION CONTROL DUIDELINES AND THE 2004 STORMWATER QUALITY VANUAL.

ENVIRONMENTAL AND PERMIT PLANS



VICINITY MAP

SEE IDX-61 FOR LIST OF DRAWINGS

ENVIRONMENTAL PERMIT PLANS PLAN DATE: MAY 2, 2023 Amtrak®

Office of Chief Engineer STRUCTURES National Railroad Passenger Corporation 30th Street Station, Philadelphia, Pennsylvania 19104

HARDESTY & HANOVER, LLC
E N G I N E E R I N G
1501 Broadway New York, MY 10036

REPLACEMENT OF MB 106.89 OVER CONNECTICUT RIVER TITLE SHEET

Dole 5/2/2023

gTTL-01

Project Code | XXX XXX

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NOTE: SEE ATTACHMENT 14A FOR "3,25 AC MITIGATION SITE" AND "17 SHORE ROAD MITIGATION SITE" PLANS,

ENVIRONMENTAL PERMIT PLAN PLAN DATE: MAY 2, 2023

10c. Revokatilis Date by Amtrak

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Office of Chief Engineer
STRUCTURES
National Relievas Possenger Corporation
30th Street Station, Philadelphia, Pennaylarna 19104

HARDESTY & HANOVER, LLC
E N G I N E E R I N G
1501 Braddwdy New Yark, NY 10036

| Project Code | XXX XXX | XXX

DEFINITIONS

EOR = ENGINEER OF RECORD

REO - RESIDENT ENGINEER'S OFFICE

HORIZONTAL AND VERTICAL CONTROL DATUM

- 1. THE HORIZONTAL CONTROLS REFERENCE THE NORTH AMERICAN DATUM OF 1983, (NAD83) AND THE CONNECTICUT
- STATE PLANE COORDINATE SYSTEM.
 2. THE VERTICAL DATUM REFERENCE THE NORTH AMERICAN VERTICAL DATUM OF 1988 (NAVD 88).

SAFETY TRAINING

- ALL CONTRACTOR AND SUBCONTRACTORS DN_SITE PERSONNEL WILL BE REQUIRED TO ATTEND AMERICA MORKER PROTECTION AND CONTRACTOR SAFETY TRANSMIC CONTRACTOR SAFETY TRANSMIC CONTRACTOR SAFETY TRANSMIC CONTRACTORS OF AN ONLINE COURSE HOSTED ON AMERICA WEBSITE AND MUST BE RENEWED.

TRACK OUTAGES

CONSTRUCTION ON THIS CONTRACT SHALL WINNIZE IMPACTS TO RAILFOAD OPERATIONS. THE CONTRACTOR SHALL COORDINATE TRACK OUTAGES WITH THE CONSTRUCTION MANAGER.

KEY WATER ELEVATIONS AT PROJECT SITE (NAVD 88)

EAST ABUTMENT, SOUTH BANK STA TO 107+1850± TO EAST (ZONE VE) =

	-YEAR FLOO ABUTMENT				FLEVATIONS AE) =	(BF	E):				11	
WEST	ABUTMENT	SOUTH	BANK	(ZONE	VE) -						75	
EAST	ABUTMENT.	NORTH NORTH	BANK	STA TO	106+3950± 106+4475± 107+0900± 107+1850±	10	107+0900± 107+1850±	(ZONE	AE)	-	10 12 11	
EAST	ABUTMENT,	SOUTH	BANK	STA TO	106+3950± 106+4650± 107+0390±	TC	107+0390±	(ZONE	AE)	=	10	

HYDRAULIC DATA	SECVAN	USACE		
MINIMUM CABLE DEPTH	-29.89 FT	-28.0 FT		
AUTHORIZED DREDGE DEPTH	-16.89 FT	1-15.0 FT		
MEAN LOWER LOW WATER (M.L.L.W.)	-1.89 FT (1)	0.0 FT		
MEAN LOW WATER (M.L.W.)	-1.21 ET (1)	0.18 FT		
MEAN HICH WATER (M.H.W.)	1.60 FT (1)	3.49 FT		
COASTAL JURISDICTION LINE (C.J.L.)	2.9 FT	4.8 FT		
HIGH TIDE LINE (H.T.L.)	3,04 FT (2)	4.93 FT		
10-YEAR TIDE	5.4 FT (3)	7.3 FT		
100-YEAR: TIDE	9.3 FT (3)	11.2 FT		
DRAINAGE AREA	11,300 SC MI	11,300 SC MI		
DESIGN FREQUENCY	100-YEAR	100-YEAR		
DESIGN DISCHARGE	1.36,495 CF5 (4)	138,495 CFS		
DESIGN WATER SURFACE ELEVATION-UPSTREAM	8.41. FT (4)	10.30 FT		
DESIGN WATER SURFACE ELEVATION-COWNSTREAM	8.53 FT (4)	10.42 FT		
MAXIMUM SCOUR SLEVATION				
FREQUENCY	500 YR W/ SPRING TIDE	500 YR W/ SPRING TIDE		
DISCHARGE	195,553 CFS	195,553 CFS		
WORST CASE SCOUR, SUBSTRUCTURE UNIT: DEPTH	WEST AGUTMENT: 24.9 PIER, 7: 25,1	WEST ABUTMENT: 24.9 PIER 7: 25.1		

- WORST CASE SCOUR, SUBSTRUCTURE UNIT: GEPTH WEST ABUIMENT: 24.9 (1) NOAN PUBLISHED DATA FOR TIDAL CAUGE STATION NO. 8462764, LYME HWY BR CT. RIVER CT.
- (1) NOW PUBLISHED DATA FOR TIDAL CAUGE STATION NO A062764, FAME HAVE BE CL. NAVER CL. 2) L'ORDET IDAL FROTTES FOR THE NEW ENGLAND COASTURE.
 (3) USACE NORTH ATALANTIC COAST COMPRETENSIVE STUDY (NADCS)
 (4) CONNECTICUT RIVER BRIDGE REFUEDEMENT, HYDROLLOGIC, HYDRAULIC, AND SCOUR ANALYSIS REPORT, MARCH 2023

*ALL ELEVATIONS SHOWN ARE APPROXIMATE AND CONTAINS AN ACCURACY OF 0.10" ± BASED. ON RELATION WITH THE USGS AND NOAA SAUCE BENCHMARKS INTERPOLATION AND FIELD.

GENERAL NOTES

HAUL ROUTES MUST BE KEPT CLEAN AT ALL TIMES, ALL MORK SHALL COVPLY WITH OSHA STANDARDS. THE LOCATION, ELEVATION AND SIZE OF EXISTING UTILITIES SHOWN OK THE CONTRACT DRAWNOSS ARE APPROXIMATE.

OCUMENT ORWANDS ARE APPROXIMED UNDERSHOUND UTILITIES WITHIN THE FOLLOWING SHALL BE PERFORMED UNDERSHOUND UTILITIES WITHIN THE WORK AREA PRIOR TO CONSTRUCTION.

1. EXERCISE EXTREME CAUTION WHEN WORKING ADJACENT TO EXISTING POWER, COMMUNICATIONS, WATER OR GAS LINES TO PREVENT DAMAGE TO THESE LINES.

IMMEDIATELY REPAIR ANY DAMAGE TO EXISTING UTILITIES CAUSED BY

C. IMMEDIATLY REPAIR ANY DAMAGE TO ENISTING UTLIFES CAUSED BY CONTRACTOR'S OPERATIONS IN A MAINER APPROVED BY THE UTILITY OWNER, AT NO COST TO AMTRAK.

ALL AREA OLISIDE THE UTILS OF CONSTRUCTION THAT ARE DAMAGED BY THE CONTRACTOR'S OPERATIONS, SHALL BE INVEDIATLY RESTORED TO THEIR DRIGHAL CONDITION TO THE SATISFACTION OF THE RESIDENT EXCHREP'S OFFICE (RED) AT NO ADDITIONAL COST TO AMTRAK.

VERY NALL INDICATE CONDITIONS AND DIMENSIONS IN THE FIELD SEFORE COMMENCIAGE ANY FABRICATION, ORDERING OF MATERIAL, OR PERFORMING ANY WORK, NOTITY THE REO OF ANY CONSTRUCTOR OF DIMENSIONS THAT WOULD PREVENT OR HAMFER THE PERFORMING AND PERFORMING ANY ACCORDANCE WITH THE CONTRACT DRIWNINGS AND SPECIFICATIONS.

UPON COMPLETION OF THE WORK, REMOVE ALL DESTINS, EQUIPMENT, AND UNUSUED MATERIALS FOR AMTERIALS FOR AMTERIALS FOR AMTERIALS FOR THE PAREA.

DEVIN COMPRETION OF THE WORK, REMOVE ALL DESIES, COURTMENT AND NUMBER MARKERALS FROM ANTRAK'S PROPERTY AND RESTORE THE "AREA AVAILABLE FOR CONTRACTOR'S USE." TO ITS ORIGINAL CONDITION, THE CONTRACTOR SHALL, THROUGH THE REC, COORDINATE WITH THE RAILFOAD FORCE ACCOUNT CONSTRUCTION ACTIVITIES WITHIN THE RAILFOAD.

PROPERTY.

ARRAS THAT WILL REMAIN DISTURBED BUT MACTIVE FOR AT LEAST THIRTY DAYS SHALL RECEIVE TEMPORARY SEEDING OR SOIL PROTECTION WITHIN SEVEN DAYS, ARRAS THAT WILL REMAIN DISTURBED BEYOND THE SEEDING SEASON, SHALL RECEIVE LONG-TERM, NON-VEGITATIVE STABILIZATION AND PROTECTION SUFFICIENT TO PROTECTION THE SITE THATOUR THE WILL CASES, STABILIZATION AND PROTECTION MEASURES SHALL BE IMPLEMENTED.

CASES, STABILIZATION AND PROTECTION MEASURES SHALL BE MINLUMENTED AS 5000 AS 5005 SELEPEWARKIN SECTION IS RECOMMENDED FROM APRIL 1 HROUGH JUNE 15 AND AUGUST 15 THROUGH DOTOBER 15.

BEROSION CONTROL MATTING SHALL BE USED ON ALL SEEDED SLOPES OF 2:1 OR STEEPER THAT EXCED 15 FEET VERTICALLY.

FOR CONSTRUCTION AND TRACK VOINTORING PEOUR EVENTS SEE ANTRAW STANNARD SEEDIFFICIALLY.

IO. THE CONTRACTOR SHALL NOT STORE BELOW THE 500-YEAR FLOOD LEVEL ANY MATERIALS THAT REDUCYANT, HAZARDOUS, ITAMMARIE, EVENOSIVE, SOLUBLE, EXPANSIVE, RADIOACTIVE, OR ANY OTHER MATERIALS THAT COULD BE MAURIOUS TO HUMAN, ANIMAL OR PLANT LAFE THE THAT COULD SEE AUGUST OF THE MATERIAL OR SOUPHMENT MAY BE STORED BELOW THE ELEXATION OF THE 500-YEAR FLOOD. PLEAVIOR PROVIDED THAT SUCH MATERIAL OR SOUPHMENT IS NOT SUBJECT TO MAJOR DAMAGE BY FLOODS, AND PROVIDED THAT SUCH MATERIAL OR SOUPHMENT IS NOT SUBJECT TO MAJOR DAMAGE BY FLOODS, AND PROVIDED THAT SUCH MATERIAL OR SOUPHMENT IS NOT SUBJECT TO MAJOR DAMAGE BY FLOODS, AND PROVIDED THAT SUCH MATERIAL OR SOUPHMENT IS NOT SUBJECT TO MAJOR DAMAGE BY FLOODS, AND PROVIDED THAT SUCH MATERIAL OR SOUPHMENT IS NOT SUBJECT TO MAJOR DAMAGE BY FLOODS, AND PROVIDED THAT SUCH MATERIAL OR SOUPHMENT SENDERS.

MATERIAL OR EQUIPMENT IS NOT SUBJECT TO MAJOR DAMACE BY FLOODS, AND PROBLEM THAT SUCH MATERIAL OR EQUIPMENT IS FROM FLOATING AND PROBLEM THAT SUCH MATERIAL OR EQUIPMENT IS FROM FLOATING ANY OR IS REMOVED PRIOR TO FLOODING, BELLOWING IN FOR THE FLOODING PROPERTY OF THE PROBLEM THE FLOODING PROBLEM TO THE FLOODING PROBLEM TO THE FLOODING PROBLEM THAN THAT THE FLOATING PROBLEM THAN THAT IN THE FLOODING PROBLEM THAN THAT IN THE FLOODING PROBLEM THAN THAT IN THE FLOODING PROBLEM THAN THAT IN THE PAY SHALL NOLLOUGH BUT NOT THE FLOODING PROBLEM TO THE PROBLEM THAN THAT IN THE PAY SHALL NOLLOUGH BUT NOT THE FLOODING PROBLEM THAN THAN THAN THAN THE PAY SHALL NOLLOUGH BUT NOT THE FLOODING WEEKENDS AND HOLLOWS. A SIGNAP SHALL BE PROVIDED TO IDENTIFY THE LOCATION OF MISERS ALL MATERIAL AND FOURMENT WILL SE STORED TEMPORARIEM OUTSIDE OF THE FLOODING. THE PROPRIED TO DETIFY THE LOCATION OF MISERS ALL MATERIAL AND FOURMENT WILL SE STORED TEMPORARIEM OUTSIDE OF THE FLOODING. THE PROPRIED TO DETIFY THE LOCATION OF MISERS ALL MATERIAL AND FOURMENT WILL SE STORED TEMPORARIEM OUTSIDE OF THE FLOODING FROM THE PROPRIED THE PROP

PROVISIONS FOR NOTIFING WORKERS ENGAGED IN WORK ON OR NEAR THE ARIDGE OF WATERCOURSE OF AN IMPENDING STORY.

PROVISIONS FOR REMOVING BUDYANT, HAZARODUS OR INJURIOUS MATERIALS PRIOR TO MAJOR STORMS.

CONTRACTOR'S EMERGENCY CONTACT INFORMATION.

CIVIL LEGEND

LIMIT

EXISTING

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LIGHT OF DISTURBANCE	ing—
AMTRAK R.O.W LINE	
EASEMENT LINE	
PROPERTY I NE	

PROPOSED

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FEMA 100 YEAR FLOOD LINE - ELEVATION VAICES LAND CAPABALE OF SUPPORTING TOAL VESETATION - ELEVATION 4.1

COASTAL JURISDICTION LINE (OJL) - ELEVATION 2:9' HIGH TIDE LINE (HTL) -

ELEVATION 3,04" MEAN HIGH WATER (MHW) -ELEVATION 1,60°

TRACK CENTERLINE

MEAN LOW WATER (MLW) -ELEVATION -1,71 WEILAND DELINEATION

CHAIN LINK FENCE TEMPORARY CONSTRUCTION FENCE

FRA APPROVED TEMPORARY CONSTRUCTION BARRIER TEMPORARY PERIMETER EROSION & SEDIMENTATION CONTROL

TEMPORARY TURBIDITY CURTAIN

TEMPORARY SUPPORT OF EXCAVATION/COFFERDAM TEMPORARY TRESTLE STRUCTURE

RETAINING WALL CATENARY STRUCTURE

SINGLE ARM CANTILEVER DOUBLE ARM CAMPILEVER CATENARY STRUCTURE

WILLTY POLE SANITARY UTILITY

WATER UTILITY BURIED ELECTRIC UTILITY

OVERHEAD ELECTRIC UTILITY FIBEROPTIC UTILITY **TRFFLINE**

LIMIT OF CUT LIME OF FILL

IRACK STAGING LEGEND

EXISTING TRACK RAISE AND SURFACE CONSTRUCT NEW TRACK TO BE SHIFTED REMOVE

ENVIRONMENTAL PERMIT PLANS PLAN DATE: MAY 2, 2023

Office of Chief Engineer STRUCTURES



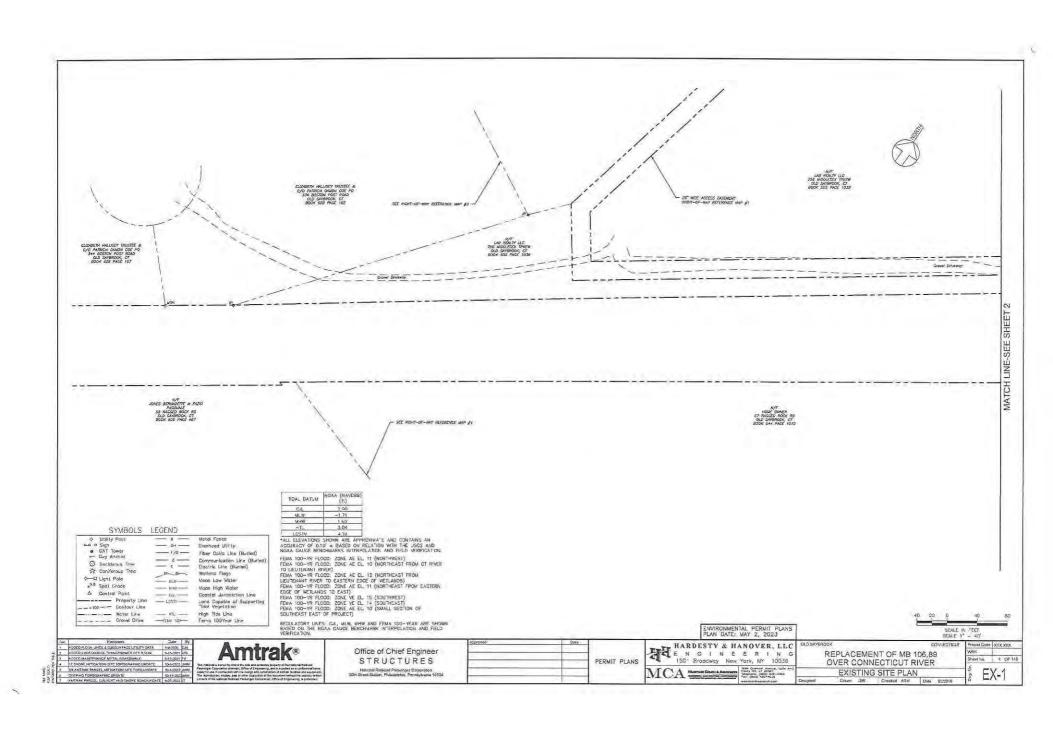
HARDESTY & HANOVER, LLC HARDEST NEER IN G 115) 1700 Market St. Suite 1050 Philladelphia, 9A 19103

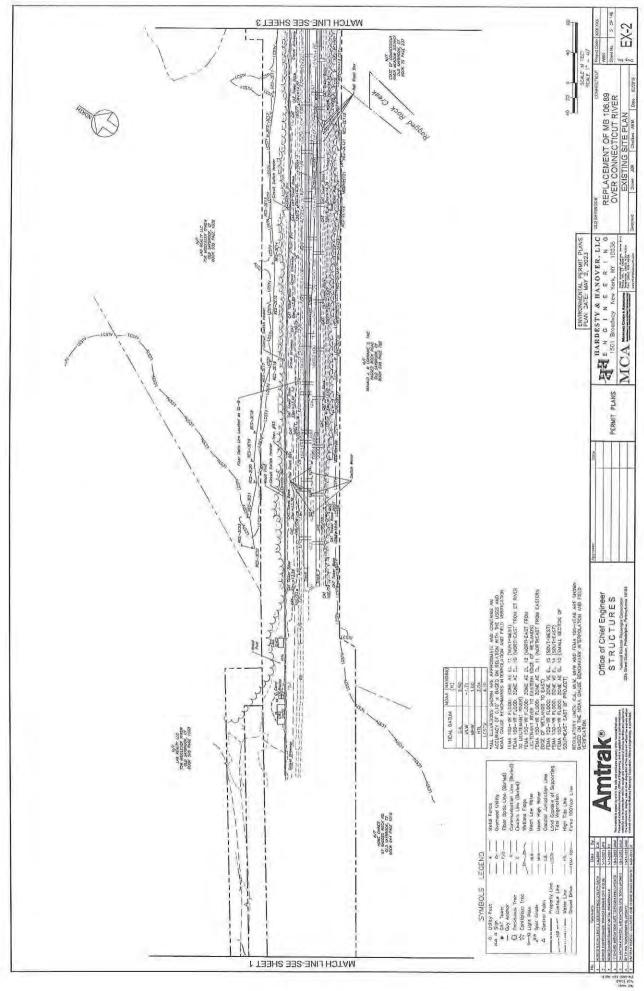
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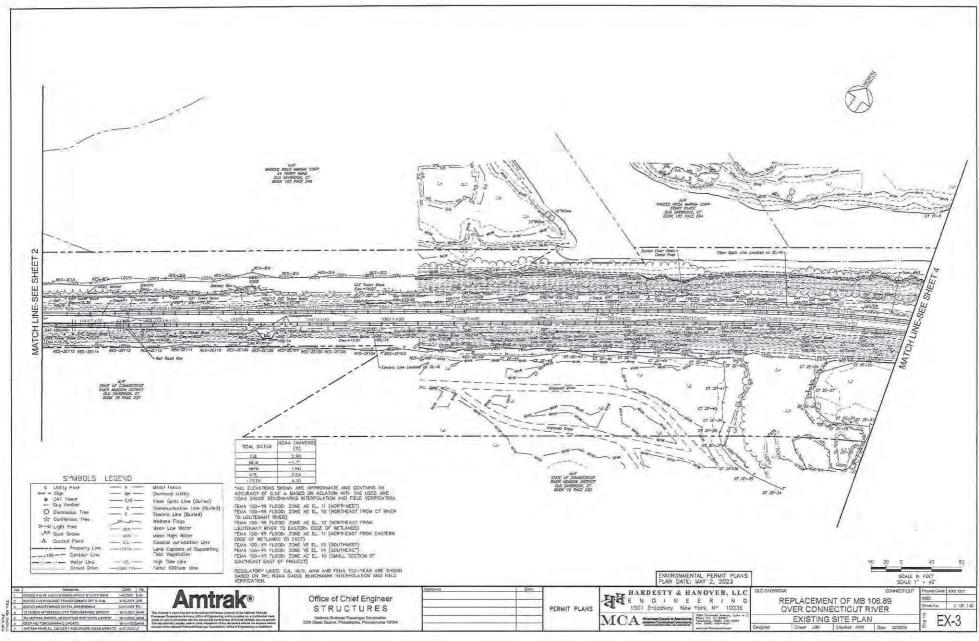
REPLACEMENT OF MB 106.89 OVER CONNECTICUT RIVER GENERAL CIVIL NOTES & LEGEND set No. 3 OF 141 GEN-01

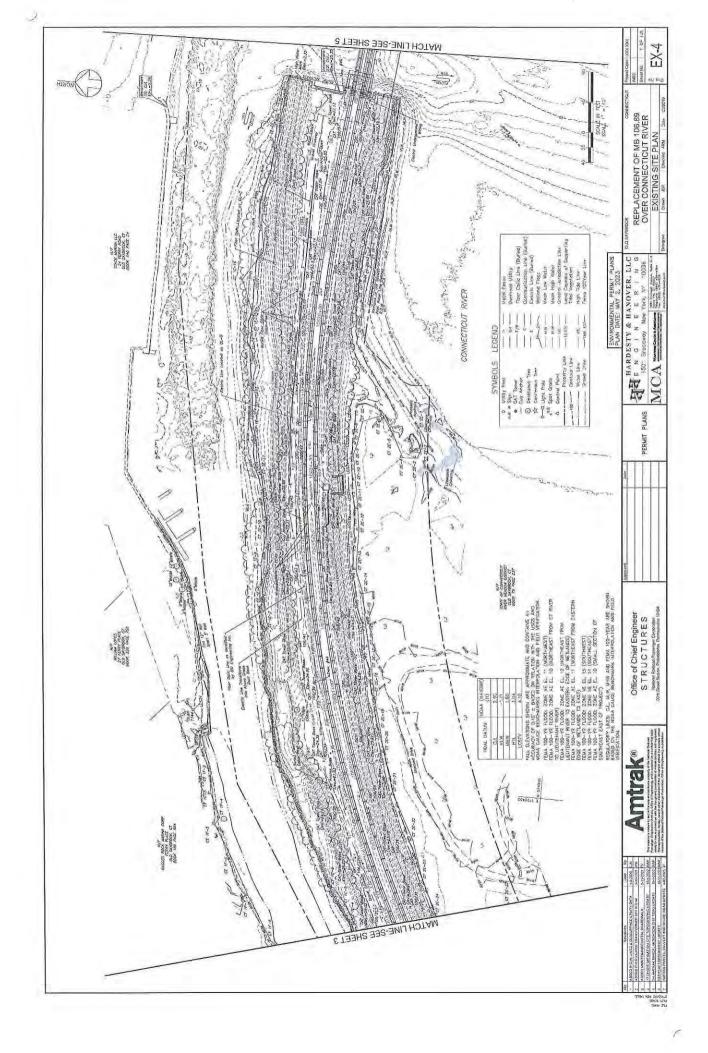
National Railroyd Passenger Corporation 30th Street Station; Philadelphia, Pennsylvania 10104

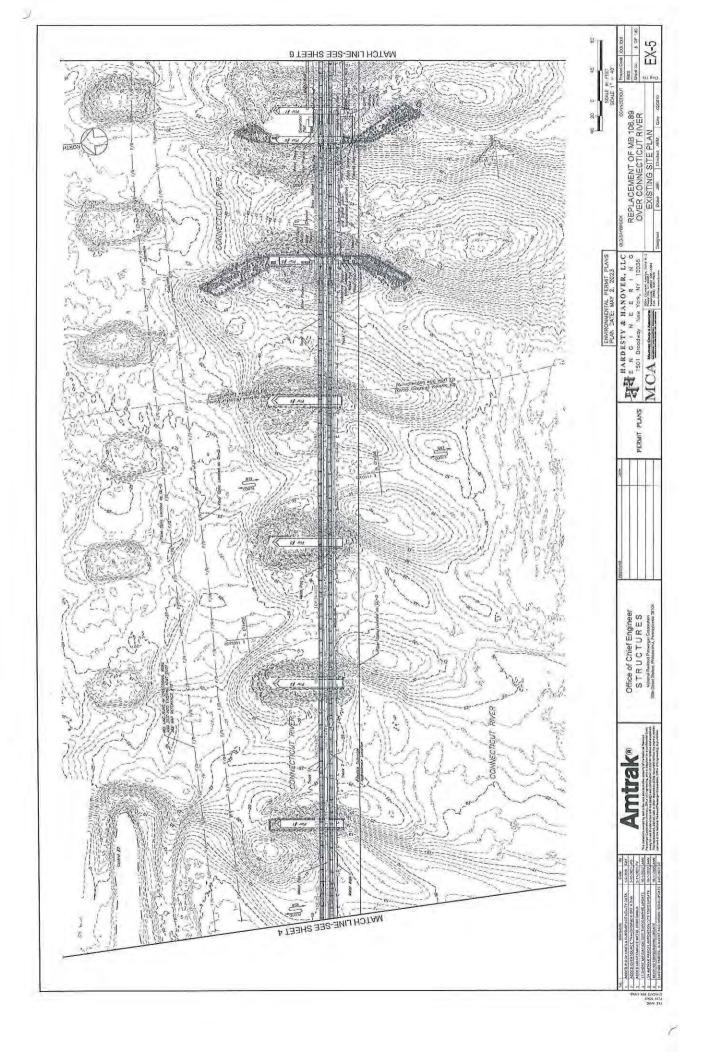


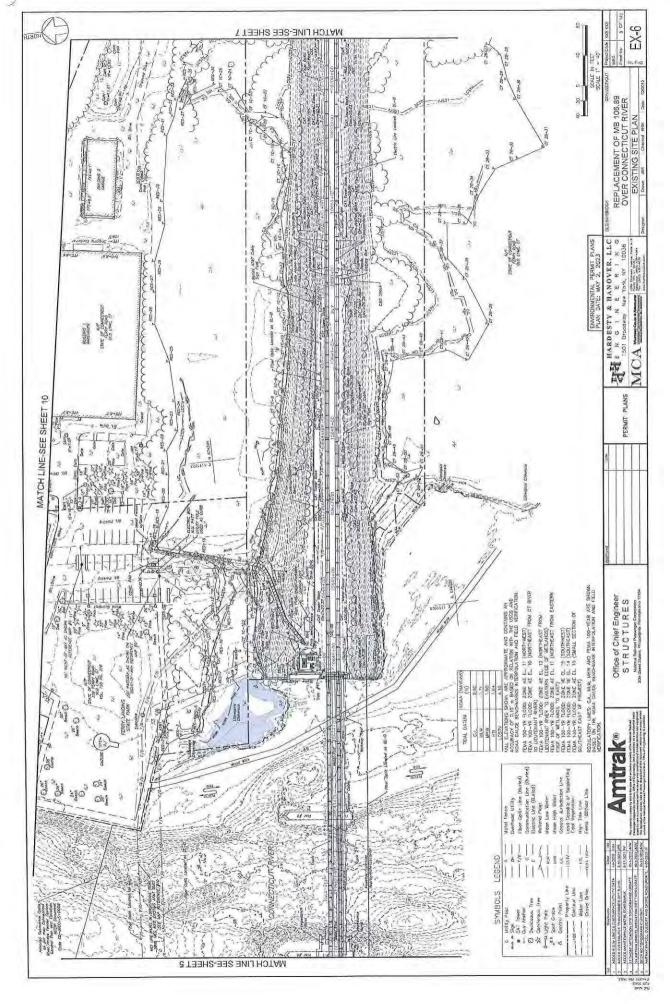


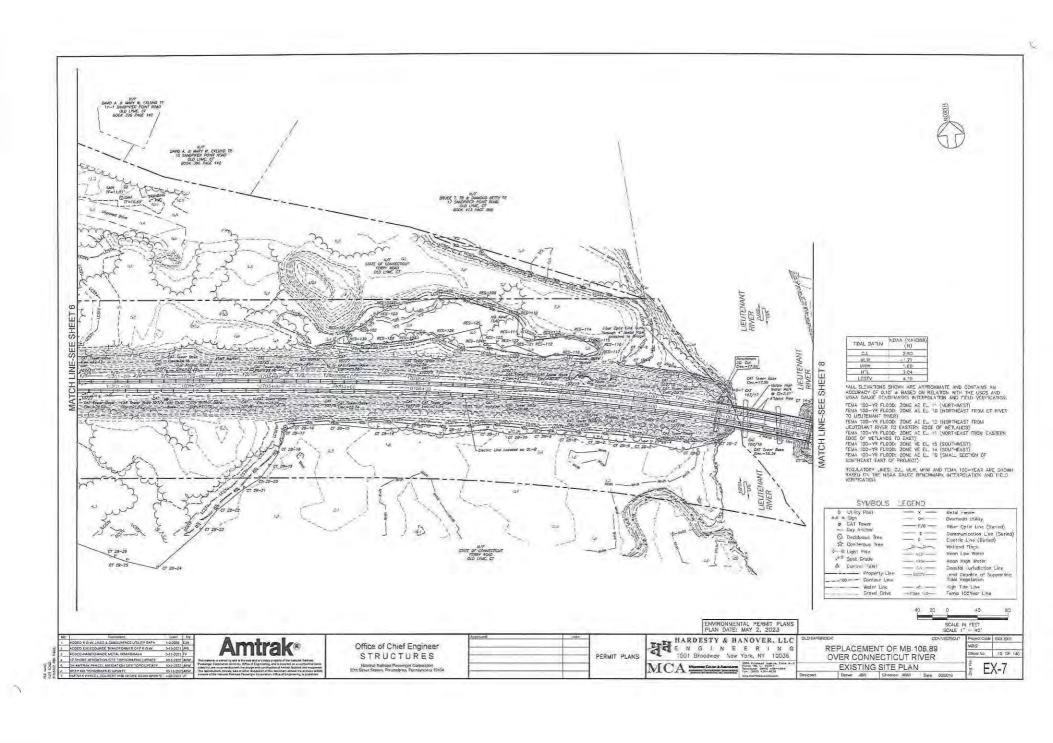
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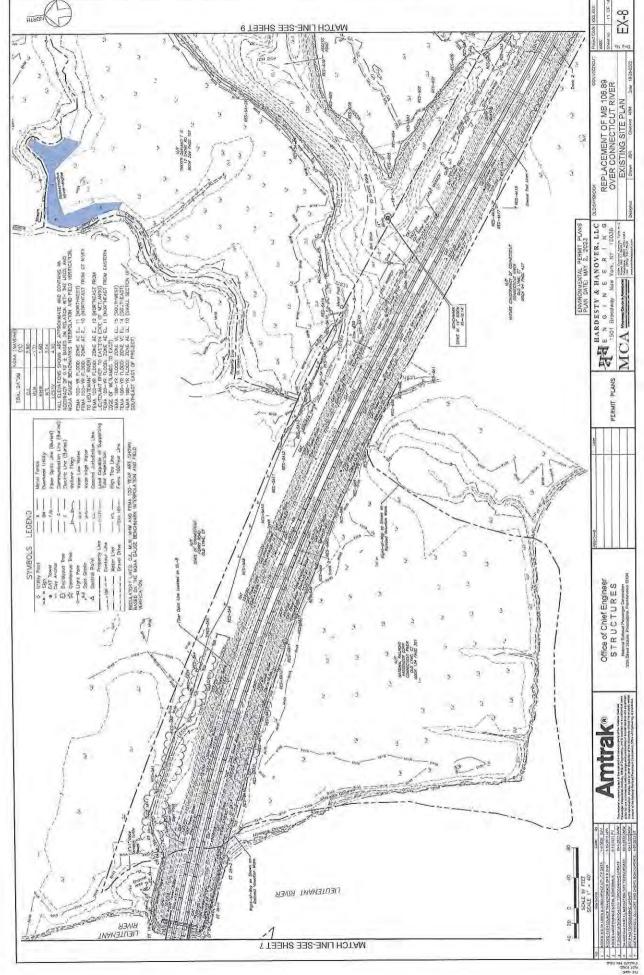




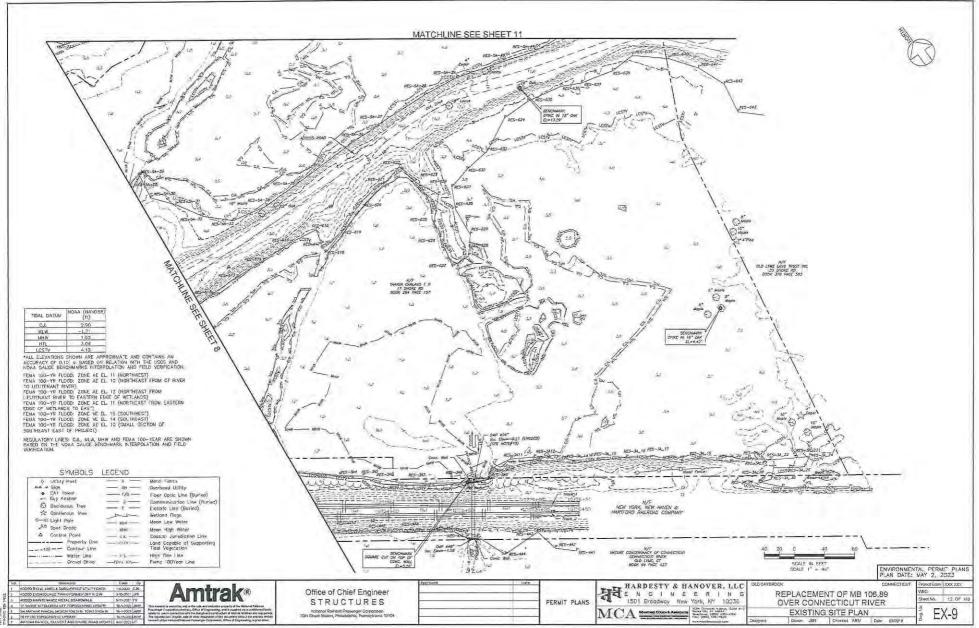




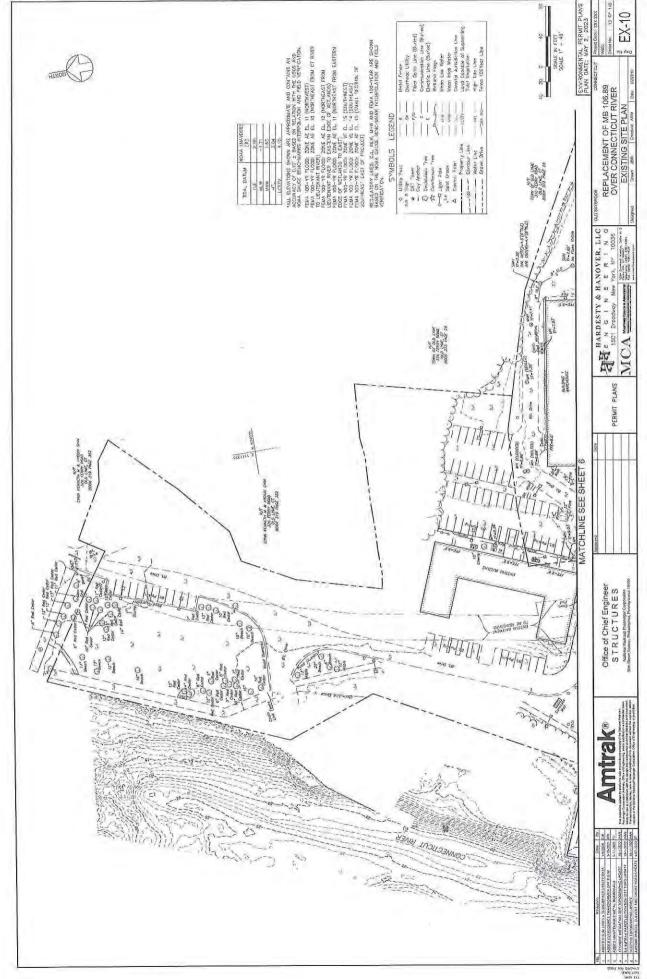




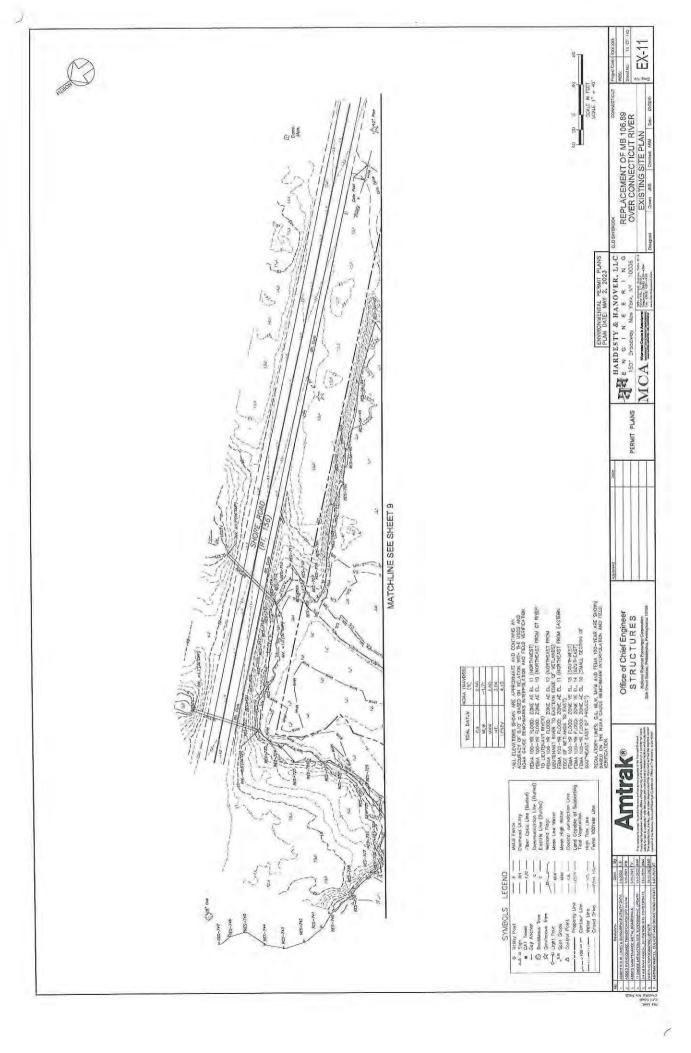
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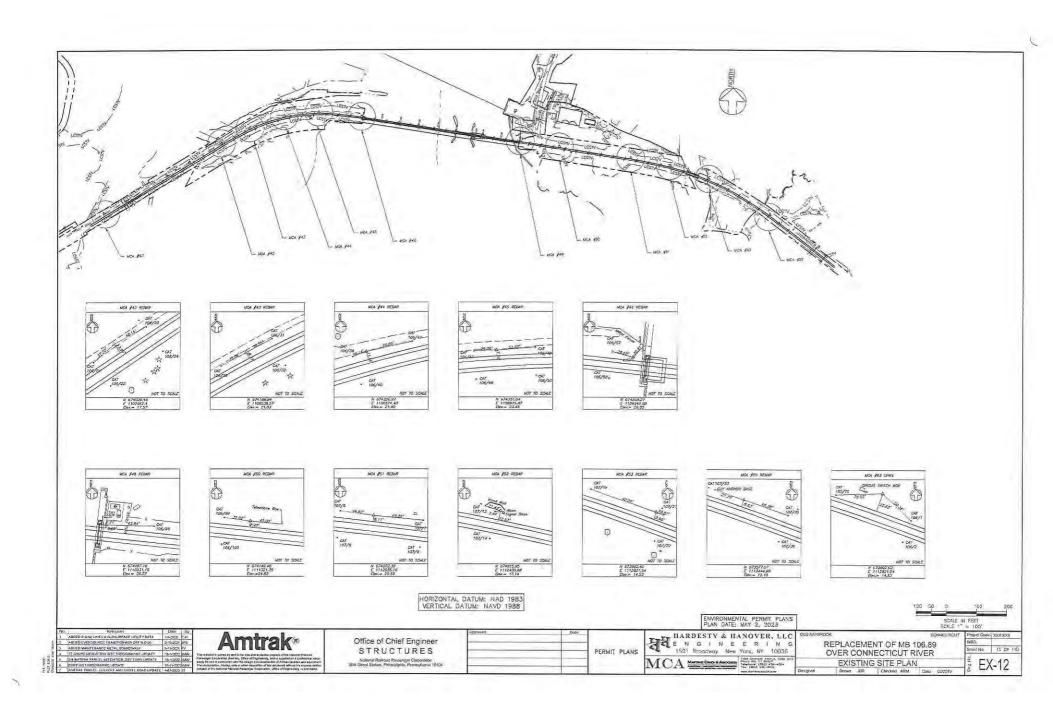


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MAP REFERENCES:

- "EASEMENT MAP SHOWING ACCESS EASEMENTE ACROSS THE PROPERTIES OF MORTON H. SILBERSTEIN AND COUPURLE EXYSLOPMENT, LLC BOSTON POST ROAD OLD SAYBROOK CONNECTIONT, SCALE: 1"-100", BY ANDES MEDDINALD/CARY SHARPE & ASSIDANTE, INC., TOWN OF OLD SAYBROOK MAP # 2423 AND OATED OCT. 73, 1987.
- SURVEY PLAN SHOWING ENSEMBNT TO BE CONVEYED TO THE CONNECTICUT MATER COMPANY ON PROPERTY
 OF MORTON H. SUBERSTEIN, M.D. BOSTON POST ROAD OLD SAYBROOK, CONNECTICUT, SCALE: 1'-100', BY
 ANGUS MCDOWALD/GARY SHARPE & ASSOCIATES, NG., TORN OF OLD SAYBROOK NAP, # 1783. AND DATED
 OCTOBER 17, 1986.
- 3) "REVISED PLAN OF DEVELOPMENT SOLATREE INDUSTRIAL PARK LAND OF WICHAEL HALLISEY & FRANK HENEMAKN BOSTON POST ROAD OLD SAYBROOK, CONNECTICUT", SCALE: 1"-50", BY ANGUS L. MADONALD & ASSOCIATES, INC., TORN OF OLD SAYBROOK MAR # (55), DATED ARR. 26, 1975 AND LAST REVISED ON SEPT 1, 1977.
- 4) "MAP OF PROPERTY OF RUSSELL F. MULCANY, DOUGLAS W. MULCANY AND LANE E. MINEL FERRY DISTRICT OUR SAYEROOK, COANT, SCALE: N-80, EY MERTIT B. CHALKER, SURVEYOR OLD SAYEROOK, COANT, IDNA OF OUR SAYEROOK MAP J. 65, DATED OCT. 7, 1957 AND LAST REVISED ON AUG. 5, 1981.
- 5) "TITLE LAND TO BE ACQUIRED BY THE STATE OF CONNECTICUT FROM PRUDENTIAL PRESS INC. FERRY ROAD OLD LYME, CT.", SCALE: 1"=50", SHEET 1 OF 2 BY ROBERT M. BOWNER SR., TOWN OF OLD LYME MAP # 2133 AND DATED APRIL 23, 1865.
- 6) "LAND IN OLD LYME, CONN TO BE CONVEYED TO JAMES AND LOUISE VIVEROS", SCALE: 1"-100", TOWN OF OLD LYME WAP # TO AND DATED MARCH, 1951.
- "RESURBINSON PLAN PROPERTY OF DAVID A, EXCLUDIC & MARY W, ENCLIND FERRY ROAD & SANOPPER
 POINT ROAD OLD LYME, CONNECTICUIT SHEET 3 OF 6, SCALE: ""#67, 3Y ANGUS MEDDWALD GRAY SHARPE
 & ASSOCIATES, INC., TOWN OF OLD LINE MAR # 3727, DATED MARCH 17, 2009 AND LAST REMSED ON
 1144-09.
- 8) "PROPERTY SURVEY PLAN PROPERTY OF ROBERT S. VOLLAND & PATRICIA J. VOLLAND 17 SANDPPER PON-ROAD CLD LYVE, CONNECTICUT" SHEET 1: OF 1, SCALE: 1"-40", BY ANGUS MCDONALD CARY SHARPE & ASSOCIATES, INC., TORN OF OLD LYME WAP // 3906, DATED AUDUST 9, 2012 AND LAST REWSED DX OCTIOSEP 22, 2012.
- "EASEMENT PROPERTY PLAN" D.E.P. VARINE HEADQUARTERS, OLD LYME, CONNECTICUT, EXHIBIT "A" SHEET 3
 CF 4, SCALE: 1"-50", BY ANTHONY HENDRIKS, TOWN OF OLD LYME WAP # 2784.
- 10) "NORTHEND ELECTRIFICATION PROJECT AMTRAY, PROJECT # 013041-04 NEW LONDON TO NEW HAVEN", SCALE: 1"-80", BY MCI TELECOMMUNICATIONS CORPORATION LICHTWAVE SYSTEMS, DATED 12/22/84.

NOTES:

- INCLUSION THREE SERVEY HAS BEEN PREPARED IN ACCORDANCE WITH SECTIONSQUE-2008-1 THREE 20-3008-20 OF THE BEDDIATIONS OF CONNECTION STATE ACCORDS "MINIMAN STANDARGS FOR SURVEYS AND MAPS IN THE STATE BEDDIATION" AS ENDORSORS BY THE CONNECTION ASSOCIATION OF LABO SURVEYORS, INC. ON SEPTEMBER 25, 1008. IT IS A TOPOGRAPHIC SURVEY WITH THE AREAS OF CONVENTIONAL SURVEY CONFORMING TO ACCOUNT TOWARD ACCURACY CLASS A-2, TOPOGRAPHIC SURVEY WITH THE AREAS OF CONVENTIONAL SURVEY CONFORMING TO CONVENTIONAL T-2 TOPOGRAPHIC SURVEY WAS RESERVED FOR SPECIFIED RAIL SHOT LOCATIONS, UTILITY LOCATION AND STRUCTURE CONTINUE SERVEY WAS RESERVED FOR SPECIFIED RAIL SHOT LOCATIONS, UTILITY LOCATION AND STRUCTURE CONTINUE OF SECURIOS SHOTS MEET THE TARKET AND INTERVALS AND ON NOT PARKET CONTINUES TO ACCURACY WAS USED TO PROCESSOR SHOTS WERE TAKEN AT OUR INTERVALS AND ON ON THE ACCURACY WAS USED TO PROCESSOR SHOTS WERE THE TAKEN AT ACCURACY WAS USED TO PROCESSOR SHARE SURVEY FOR AT A MORE THE RIVER. AREAS PERFORMED BY ASSISTANCE ACCURACY WAS USED TO PROCESSOR SHARE SURVEY FOR ATT A MORE THE RIVER. AREAS PERFORMED BY ASSISTANCE ACCURACY WAS USED TO PROCESSOR SHARE SURVEY FOR ATT A MORE THE RIVER. AREAS PERFORMED BY ASSISTANCE ACCURACY WAS USED TO PROCESSOR ASSISTANCE FOR THE RIVER. AREAS PERFORMED BY ASSISTANCE ACCURACY WAS ASSISTANCE.
- 2) NORTH DRIENTATION REFERS TO CONNECTICUT ORD SYSTEM NAD 83.
- 35 ELEVATIONS ARE BASED ON NAVO 88.
- 4) THESE TIES WERE DEVELOPED FROM THE BASE CAD DRAWING AND ARE NOT FIELD GENERATED TIES, THE DISTANCES DEPORTED HEREON ARE BASED UPON THE DISTANCE FROM THE INDIVIDUAL DONTROL POINT(S) TO THE DENIER OF THE TIE GROBEST AS MEASURED THOM THE ADD REWARDS QUELY.
- THE TIES DEPICTED HEREON ARE ACTING AS A REFERENCE IN THE RECOVERY OF THE CONTROL-POINTS DRILY. THEY ARE NOT INTENDED AS A MEANS TO REPLACE OR RESET ANY OF THE CONTROL POINTS.
- B) SUBMARINE CABLES SHOWN HEREON ARE BASED ON AVAILABLE MAPPING AND FIELD DESERVATION. LOCATION OF CABLES AS DEPICTED ARE APPROXIMATE, NO FIELD EVIDENCE FOUND BY BSI ENGINEERING INC.
- ACCESS TO AND FROM SHORE ROAD CURRENTLY IN USE, NO RIGHTS OR TRANSFER FOUND ON LAND RECORDS. LOCATION DEPICTED BY AERIAL MIACERY.
- 8) ALL UTILITIES DEPICTED AT "QUALITY LEVEL S" UNLESS LABELED "QLE" OR "QLD".
- 9) REPLATOR UNES. CL. LUL, HAY AND TEAL TOC-SEA AGE SHOWN BASED ON THE 100A CAUCE SELECTIONS.

 REPRESENTED HAVE TEAL REPRESENTABLE SELECTIONS SHOWN IN TREAT ARE PROPORTIONAL FAIL OF CHATAGES AND ACCURACY OF 0.10° & BASED ON RELATION WITH THE USES AND MORA DADE BENCHMARKS INTERPOLATION AND HELD REPRESENTED.
- 10) BASED ON FIELD MEASUREMENT, THE CULVERT PIPE UNDER THE RAILBED APPEARS TO BE 54" ON THE MORTH-SIDE OF THE BANK, DUE TO PIPE EROSION AND POTENTIAL CCMPRESSON OF PIPE, ACTUAL PIPE DAMETER IS DIFFOLLIT TO COMPRIA. THE PIPE ON THE SOUTH ESUD OF THE CULVEY IS INTRACT AND MEASURABLE.

MUTAC: IADD	NBAA (NAVD88) (ft)
CV	2/90
VEW	-1,71
MHW	.60
H70	3.04

SUBSURFACE UTILITY ENGINEERING NOTES:

- THIS PLAN WAS PREPARED IN CONFORMANCE WITH THE AMERICAN SCRETY OF DIVIL ENGNEERS STANDARD CLASCE 38-02 "STANDARD CUIDELINE FOR THE COLLECTION AND DEPICTION OF EXISTING SUBSURFACE LITLITY DATA".
- 2) EETAIN JULIUES, SHOWN HAVE BERLI PRACED ON THE DEGUARD UNING DEETGOUG DESIGNATION TECHNOLOGY DESIGNATION, OR ELECTROMY UTUTY LOCATION, 15 BERNED 48 THIS SUFFACE LOCATION OF A LITTLY UNE BASED ON ELECTROMIC GEOPHYSICAL PROSPECTING TECHNOLOGY AND IS APPROXIMATE IN RELATION TO THE ACTUAL LOCATION OF THE POSSIBLE UTUILITY.
- CERTAIN UTILITIES SHOWN HAVE BEEN TAKEN FROM AVAILABLE RECORD INFORMATION. THESE UTILITIES MAY NOT
 HAVE BEEN VERIFIED. (SEE NOTE, #4 BELOW.)
- 4) ALL EXISTING DESIGNATED UTILITIES NEAR PROPOSED CONSTRUCTION SHOULD BE EXACTLY LOGATED USING NON-DESTRUCTIVE AIR-VACUUM EXCAVATION, IF NOT ALREADY GOALED BY AIR-VACUUM EXCAVATION (SEE QUALITY LEVEL & ABOVE.)
- UNLESS NON-DESTRUCTIVE AIR-VACUUM EXCAVATION IS L'ILLIZED AT A PARTICULAR LOCATION, MCA AND BSIE DO NOT GUARANTEE THE EXISTENCE OR NON-EXISTANCE OF UTILITY LINES.
- S) AT LOCATIONS, WHERE BDE IS DIRECTED TO PERFORM NON-DESTRUCTIVE AR-VACUUM EXCAVATION, THE TEST HOLE IS ADVANCED UNTIL A COMMITTION OF PRACTICAL REFUSAL FOR ARE-VACUUM EXCAVATION IS REACHED OF HOLE IS ADVANCED TO A DEPTH OF BD (CENT FEET, PRACTICAL REFUSAL BOIN DETRIES AS RECOUNTERING A UTILITY, BERROCK, WATER TABLE, LARGE ROCKS/ COBBLES, SUSPECIED HAZARDOUS WATERIALS OR A CONDITION OF HOLE WITAELLYTK.
- 7) WHERE BEST IS DIRECTED TO PERFORM MON-DESTRICTURE AIR-VACUUM EXCAVATION TO CONFIRM THE NON-EXCENTINE OF UILILIES, BEST WILL GOVE PROPEY NON-EXCENTANCE OF UTILITIES WITHIN THE VISUAL THE UNSELF LIMITS OF THE EXCAVATION, SBITE IS NOT RESPONSIBLE FOR EMERGENG THAT WORK BY OTHERS IS PERFORMED AT THE SAME LOCATION AS THE AIR-VACUUM EXCAVATION HOLD.
- B) BELOW GROUND STRUCTURES UNLESS OTHERWISE DEPICTED ARE SYMBOLIC ONLY.
- PRIOR TO ANY EXCAVATING, BSIE RECOMMENDS THAT ALL UTILITY OWNERS SHOULD REVIEW THIS DRAWING FOR ACCURACY AND COMPLETENESS.

UTILITY QUALITY LEVEL INFORMATION, NOEX (SEE ASCE/CL 38-02);

QUALITY LEVEL D: "OL D". UTILITY INFORMATION PLOTTED ON THE PRAWING BASED SOLELY ON RECORD INFORMATION, NOMBOULA RECOLLEDIOUS OR THE EXISTINGE OF UTILITY SERVINGE. IT SHALL IS NOTICE THAT ALL INFORMATION SHOWN OF THE TISS HIGHL LOCATIONS, SEE DI. A BELLOW, INCLUDING BUT NOT LIMITED TO A UTILITIES SIZE, CAPACITY, MATERIAL COMPOSITION, CONSTITUTO OR SERVICE STATUS SHALL BE DONSIDERED OLD DEVEN THOOLOG THE UTILITY WAS BE CATEFUL AND LABELIED AS OLD CHE OLD.

QUALITY LEVEL C: "OL C", UTILITY INFORMATION DETAINED AND CATEGORIZED AS OL S, PLOTTED TO CORRELATE WITH SURFACE UTILITY FEATURES WHICH HAVE SEEN PELLO VERRIED, SURVEY LOCATES AND ACCURATELY TRANSPOSED CNTO THE DESIGN/CONSTRUCTION SOLUBLENTS, INCLUDED IN THIS CATEGORY ACTIVE, UTILITY ENGINATION AND UTILITY DEPICTIONS, WHICH IN THE PROFESSIONAL OPHION OF THE SUBSIGNATE UTILITY ENGINEER, REPRESENT THE MOST PROBABLE APPROMINE HORIZONTAL LOCATION, THE AND/ORE EXPENSE OF A UTILITY OF

QUALITY LEVEL B; "QL B". UTILITY INFORMATION DERIVED BY ESTABLISHING THE APPROXIMATE SURFACE HORIZONTAL LOCATION OF A UTILITY USING ELECTRONIC METHODS. SAID INFORMATION IS SUBSEQUENTLY FIELD SURVEY LOCATED AND ACCURATELY REDUCED ONTO THE DESIGN/CONSTRUCTION DOCUMENTS.

QUALITY LEVEL A: "QL A". LITHITY INFORMATION WHICH HAS BEEN VISUALLY VERIFIED, SURVEY LOCATED (BOTH HORIZONTALLY AND VERTICALLY) AND ACCURATELY REDUCED ONTO THE DESIGN/CONSTRUCTION DOCUMENTS. THIS IS TYPICALLY SHOWN AS TEST HOLE OR OTHER DIMENSIONED INFORMATION.

PLAN DATE: MAY 2, 2023

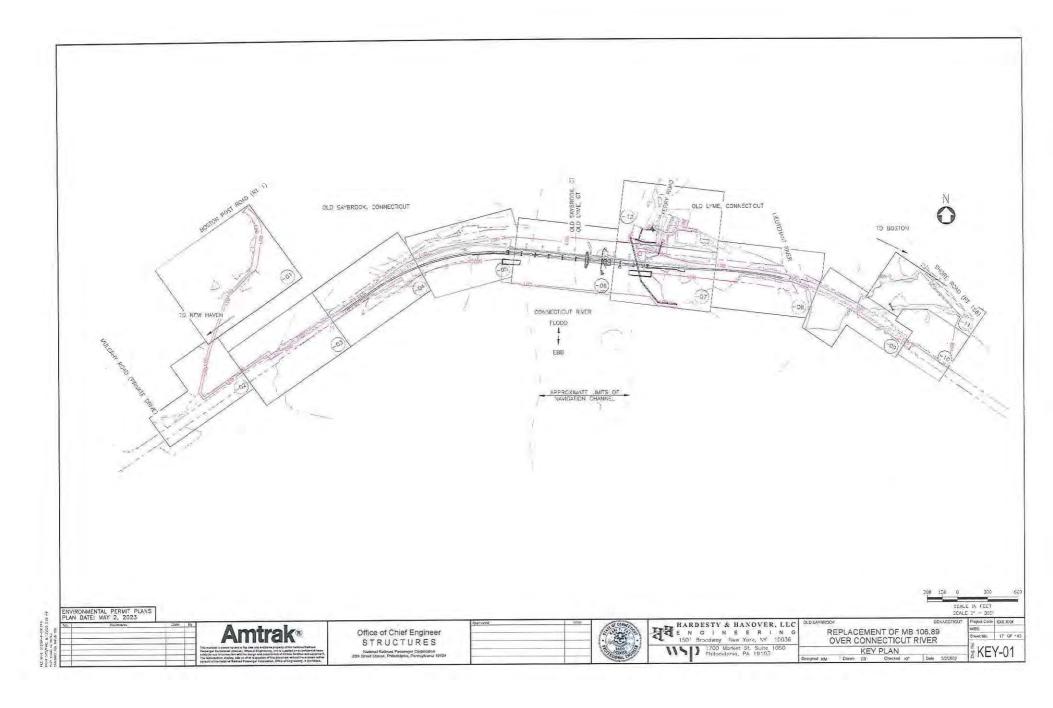
1 ADDED R DW LINE'S SUBJURANCE UTILITY DATA 3-0-3000 FUN 2 ADDED EVERDOUNCE TRANSFORMER OF FLOAM. 3-16-3001 UPB. 5-11-2021 FV 10-1-2022 JAW

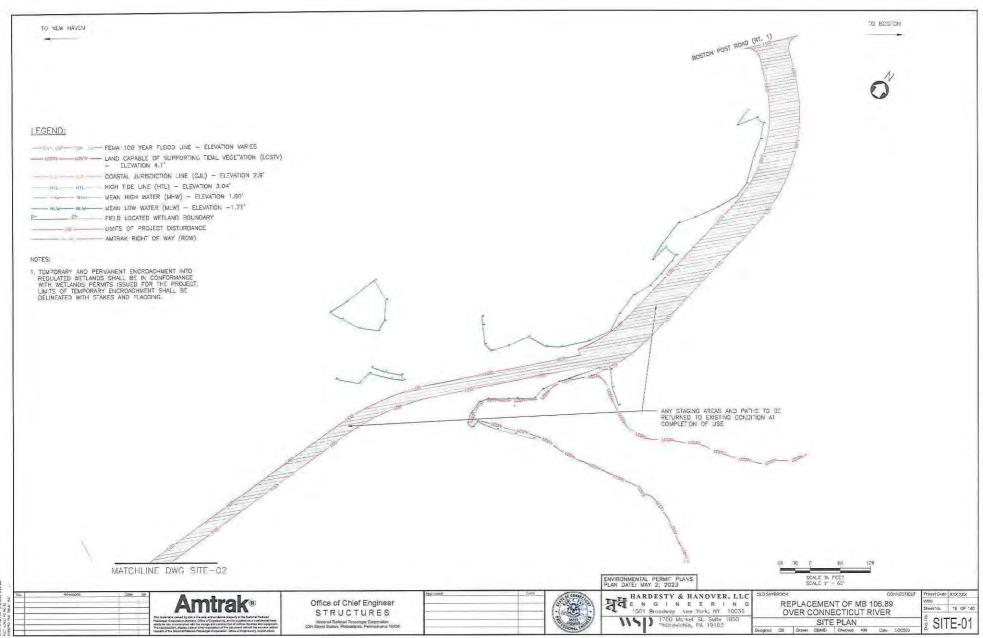
Office of Chief Engineer STRUCTURES National Railroad Passenger Corporation 20th Street Station, Philodelphia, Permylvania 19104 PERMIT PLANS

HARDESTY & HANOVER, LLC E N G I N E E R I N G 501 Braddwcy New York, NY 10036 MCA Mamma Couot & Amounts

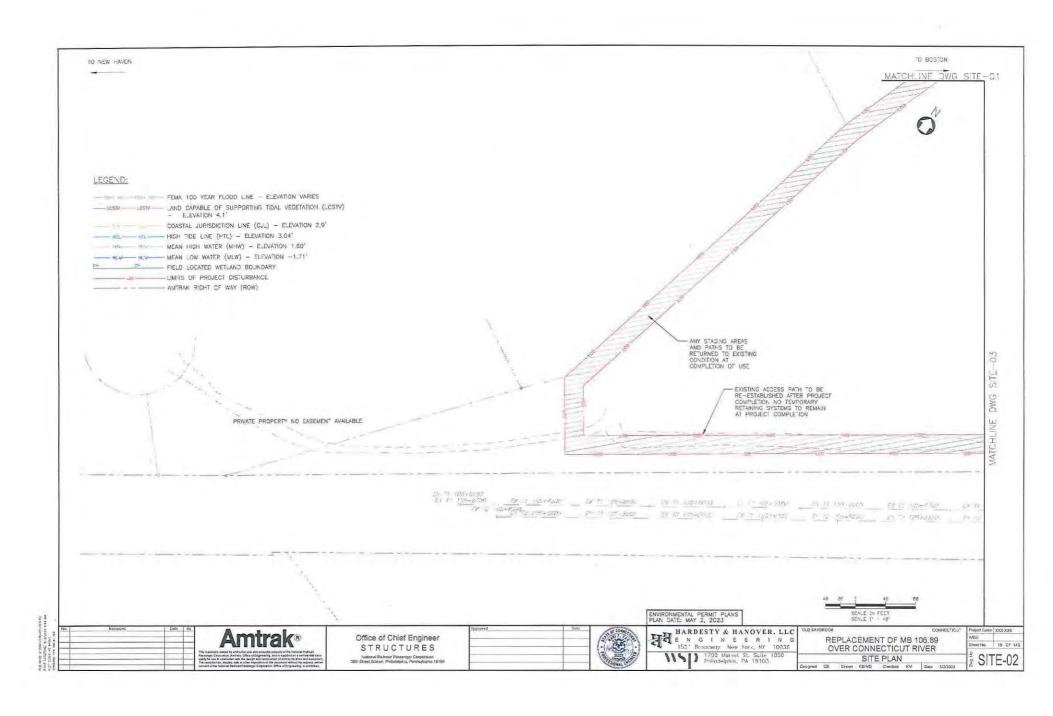
REPLACEMENT OF MB 106.89 OVER CONNECTICUT RIVER EXISTING SITE PLAN Drawn JBR Checker ARM Date

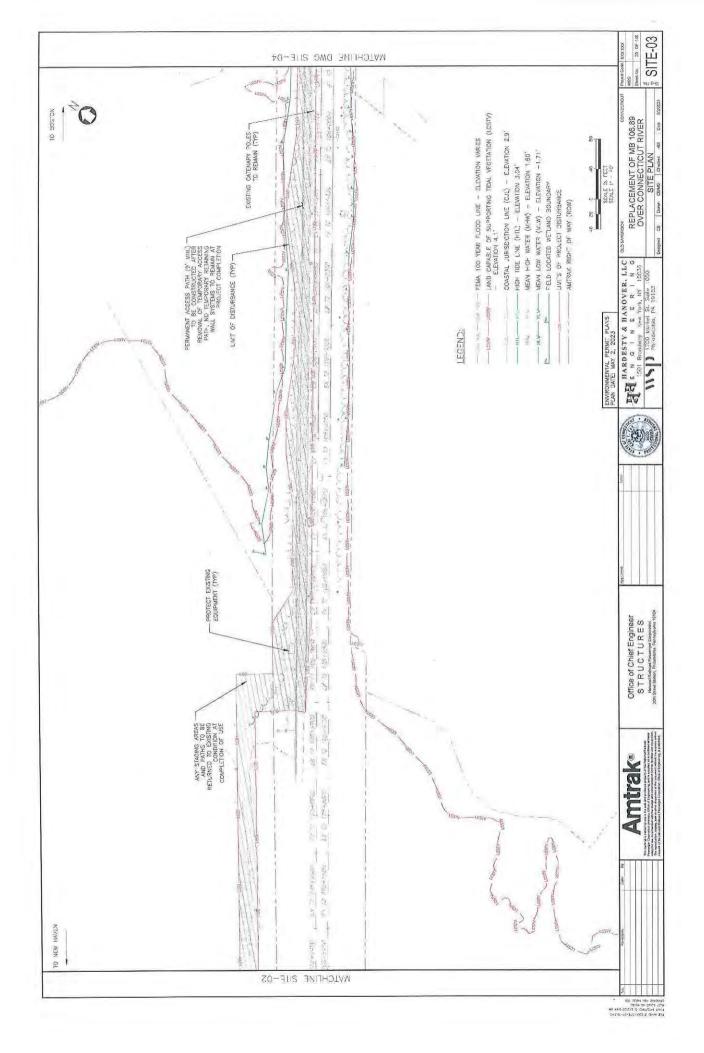
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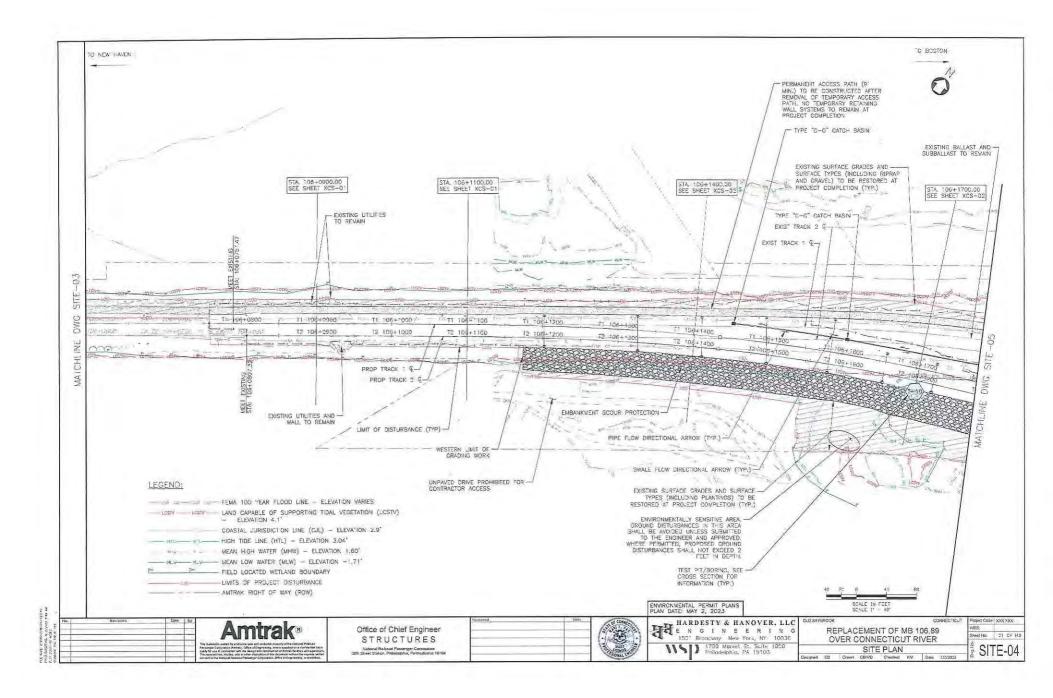


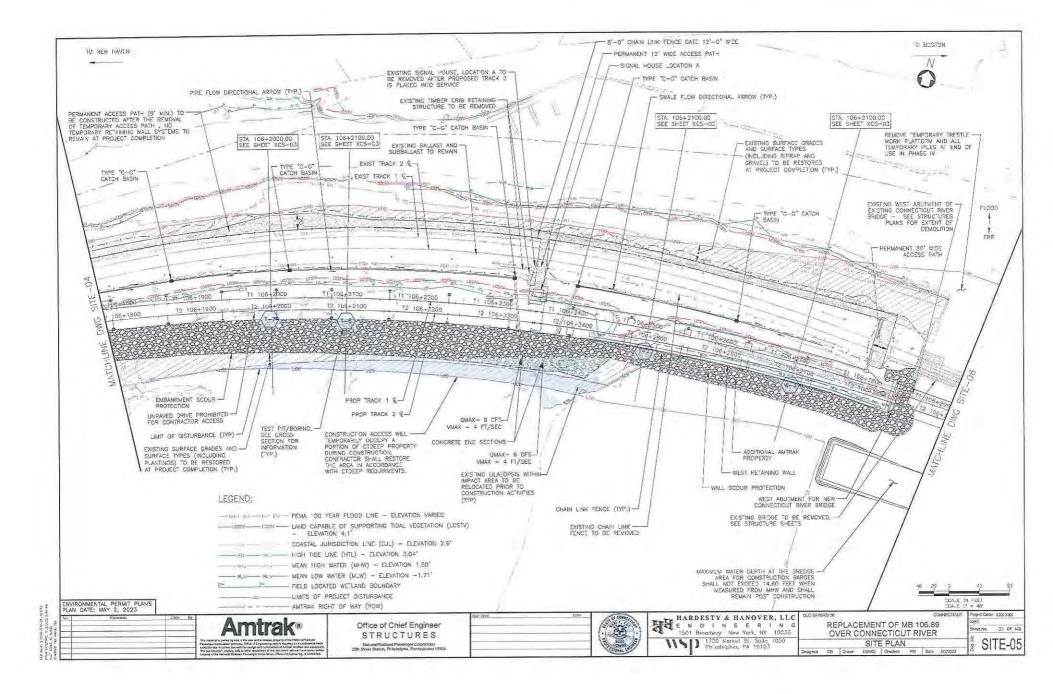


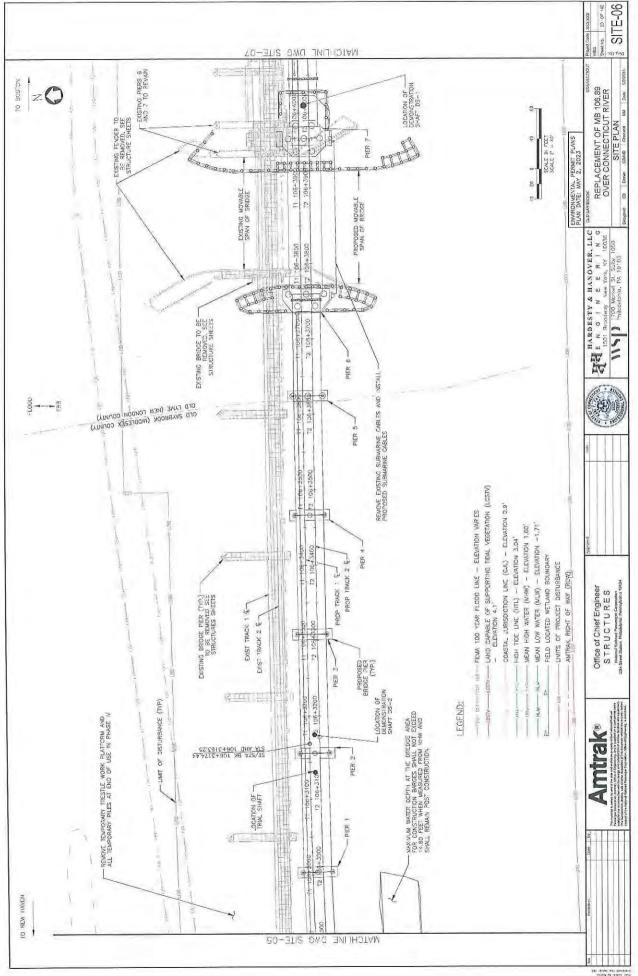
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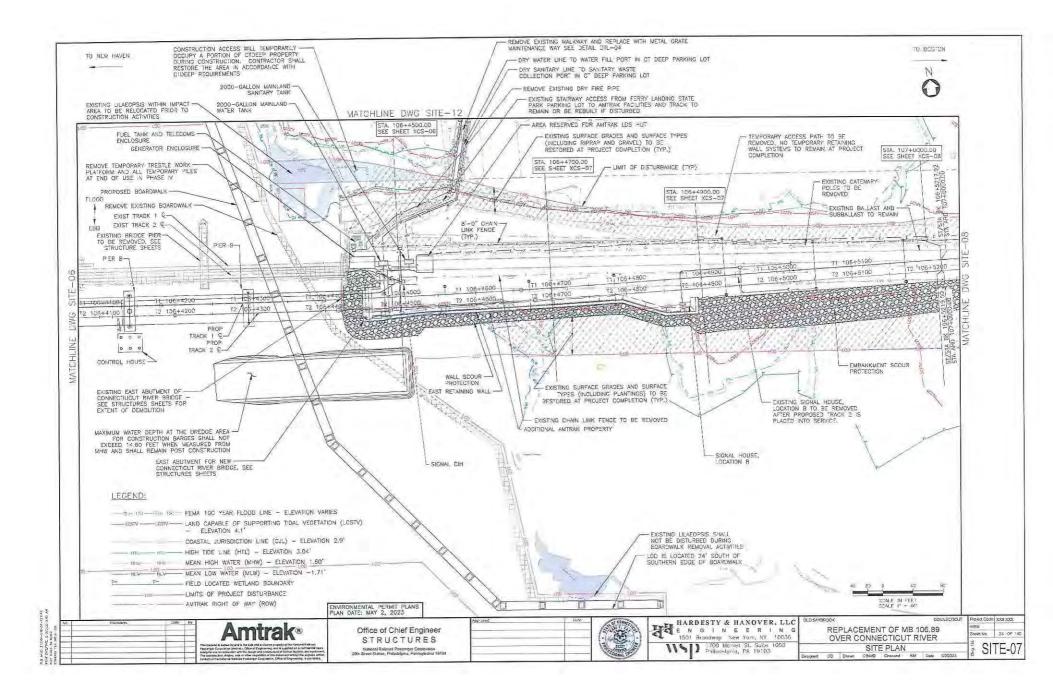


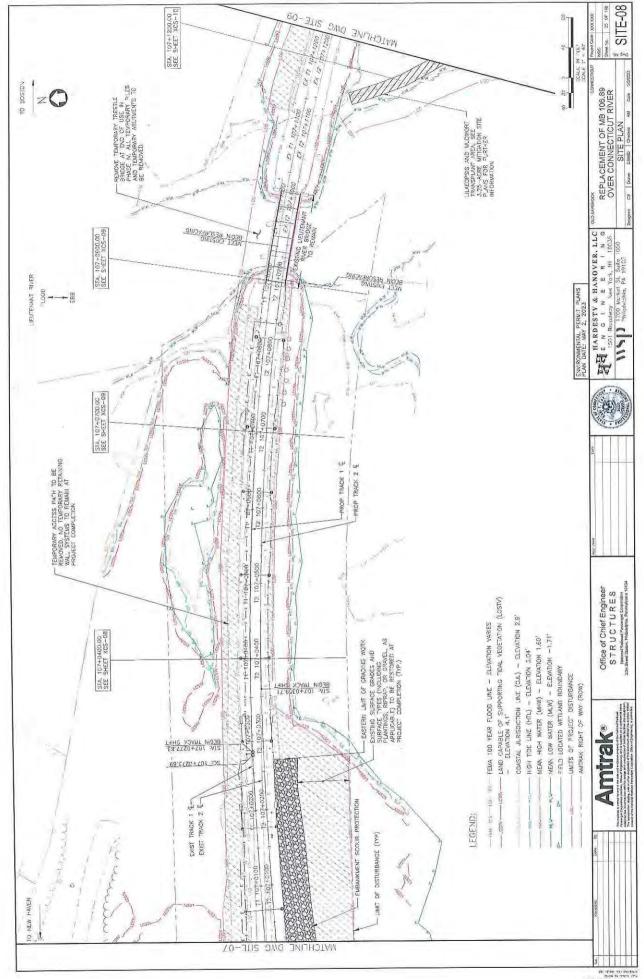


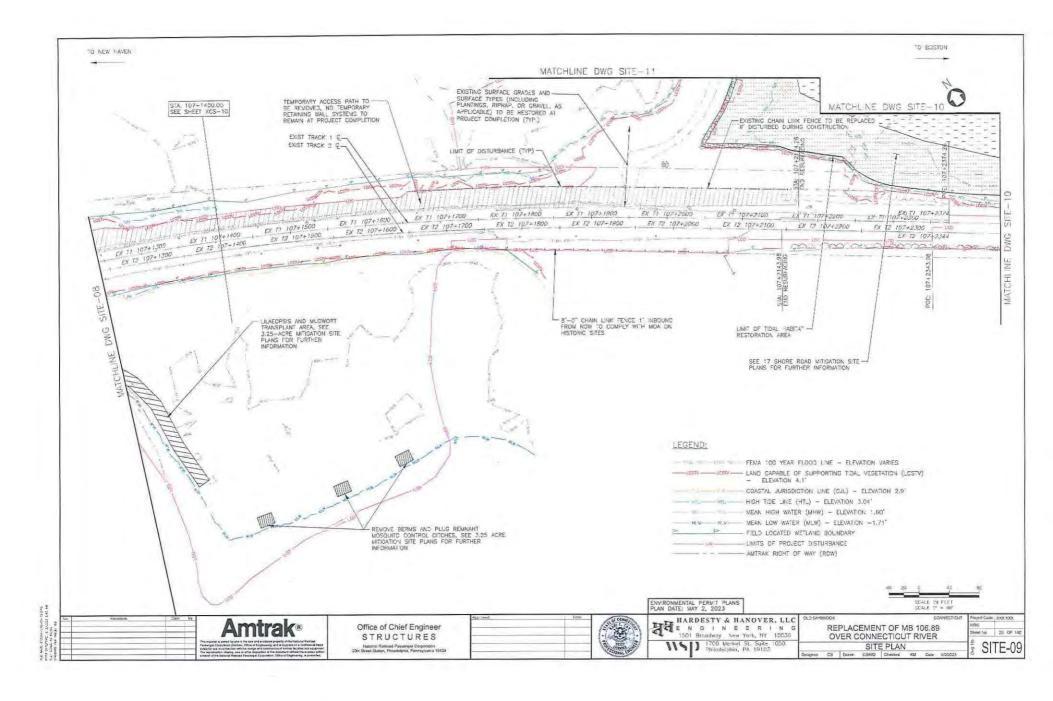


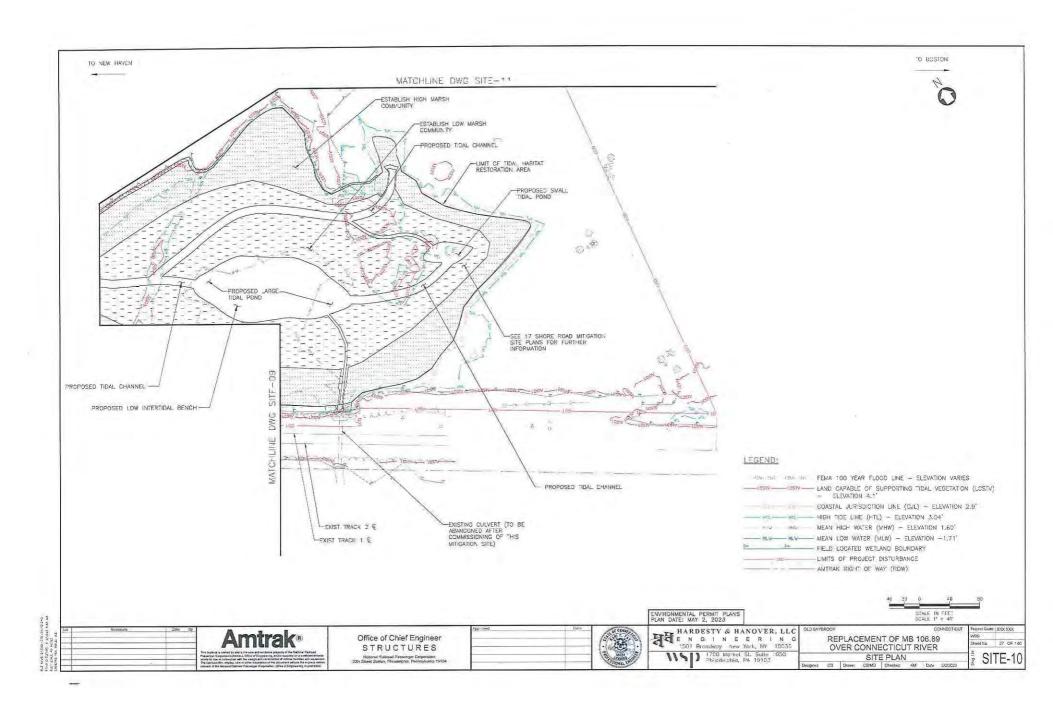


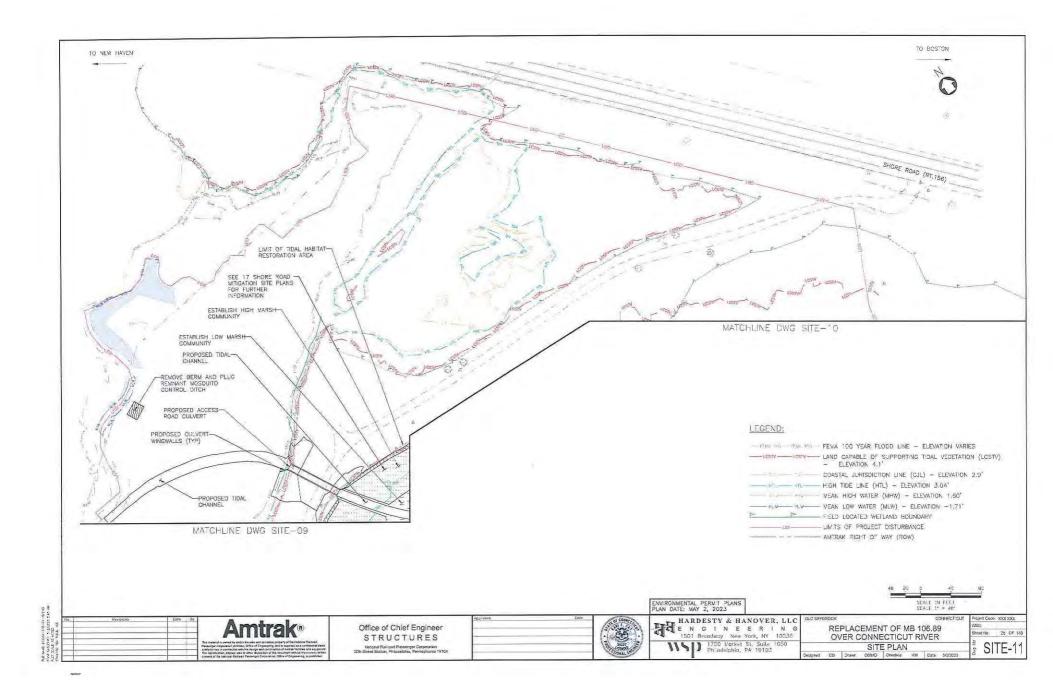


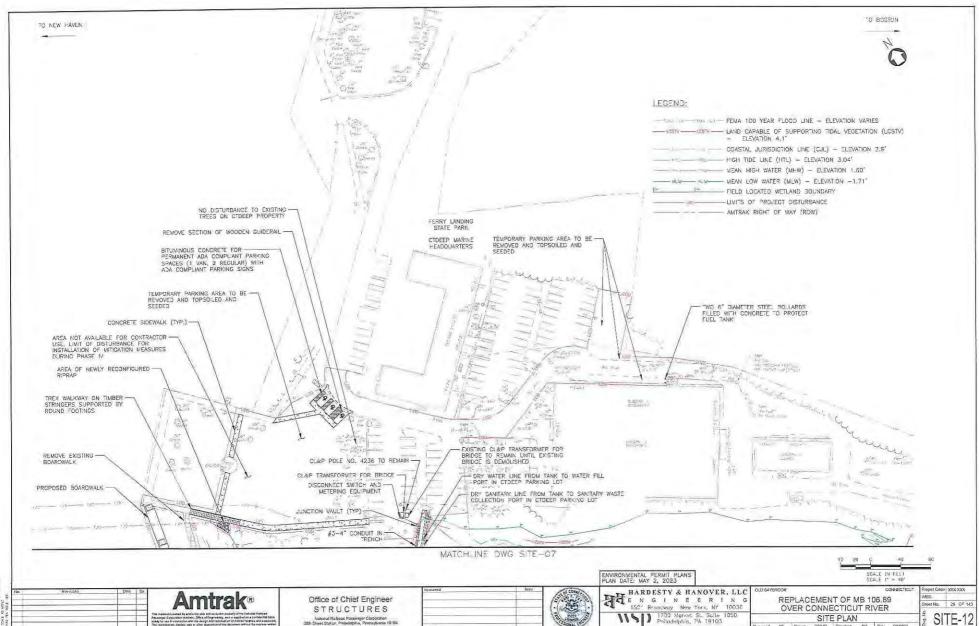




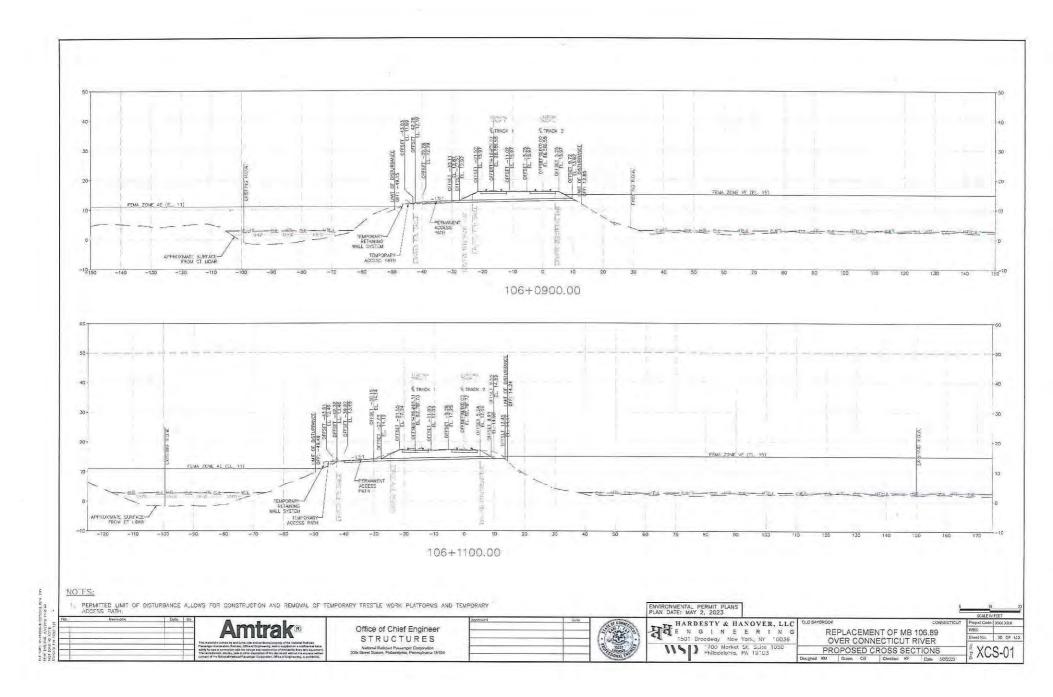


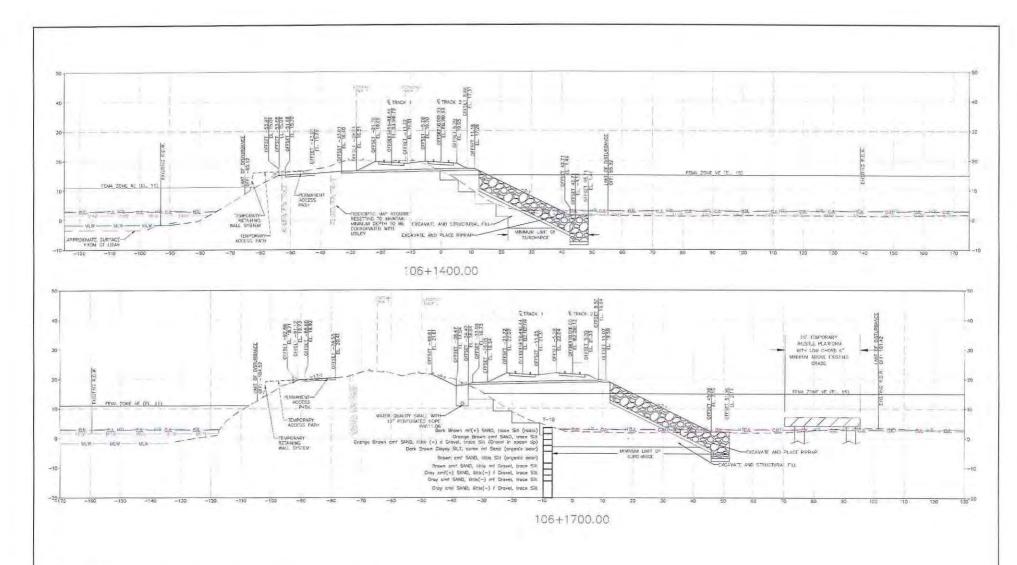






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ACCESS PATH, SEE GEO-C4 FOR EVBANKMENT CONSTRUCTION SCHEME AND BENCHING REQUIREMENTS.

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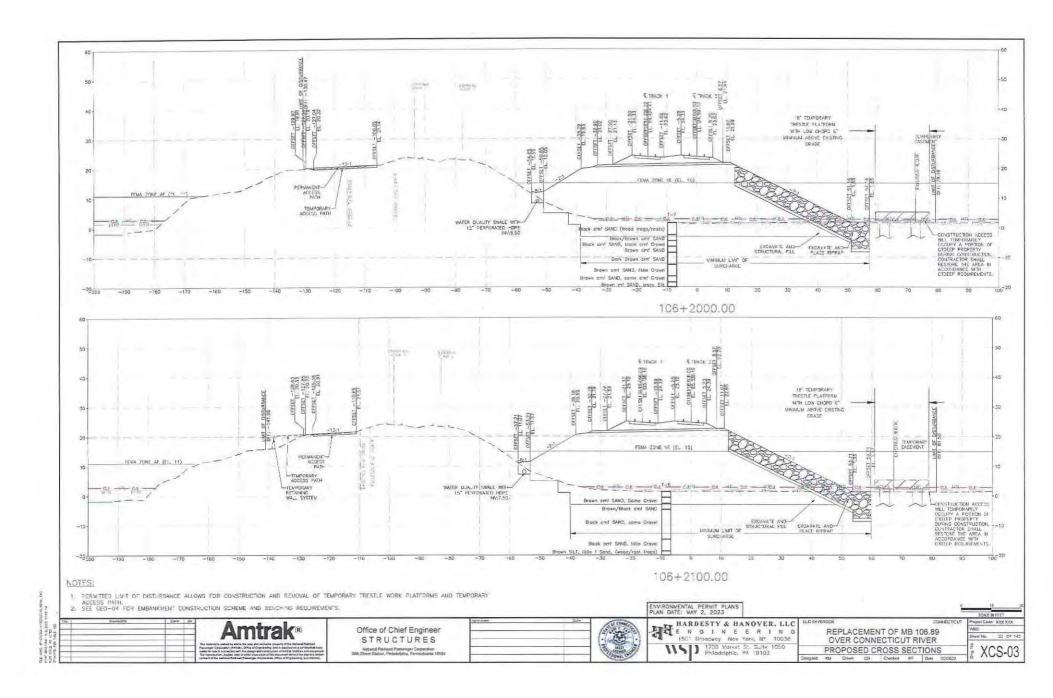
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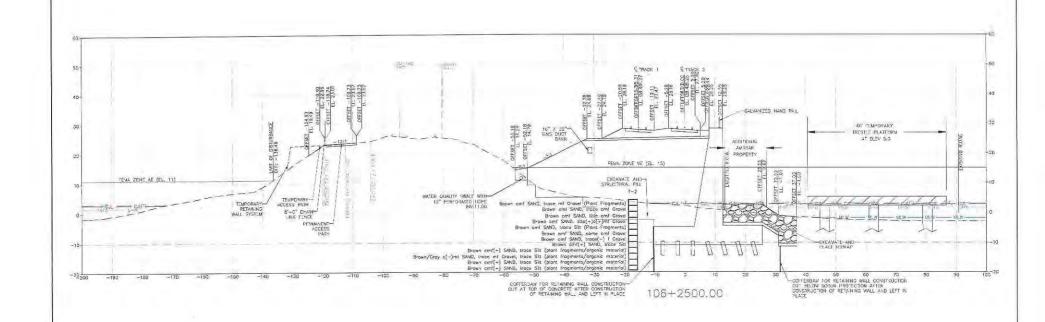
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ENVIRONMENTAL PERMIT PLANS
PLAN DATE: MAY 2, 2023
HARDESTY & HANOVER, LLC
E N G I N E E R I N G
150° Broaswey New York, NY 10036
17/30° Marvet St. Suite 1050
Prilodelphia, PA 19103

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NOTES:

1. PERMITTED LIMIT OF DISTURBANCE ALLOWS FOR CONSTRUCTION AND REMOVAL OF TEMPORARY TRESTLE WORK PLATFORMS AND TEMPORARY ACCESS PATH.
2. SEE BEG-D4 FOR EMBANMENT CONSTRUCTION SCHEME AND BENCHING REQUIREMENTS.

Amtrak®

Office of Chief Engineer STRUCTURES National Religious Passenger Corporation 30th Street Station, Philadelphia, Pennsylvania 18104



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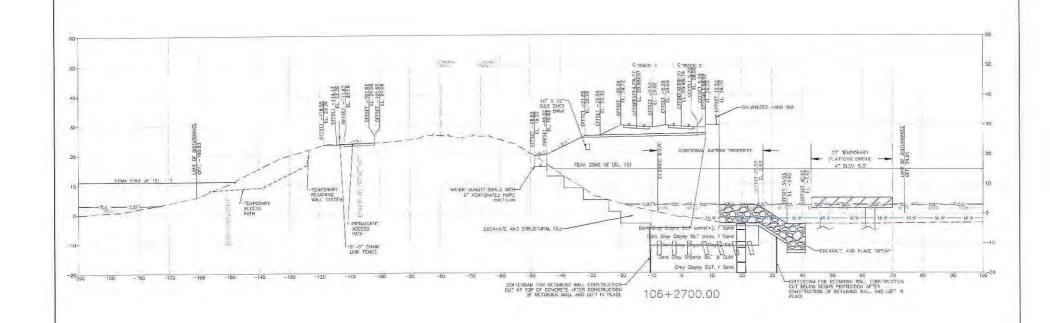
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Amtrak®

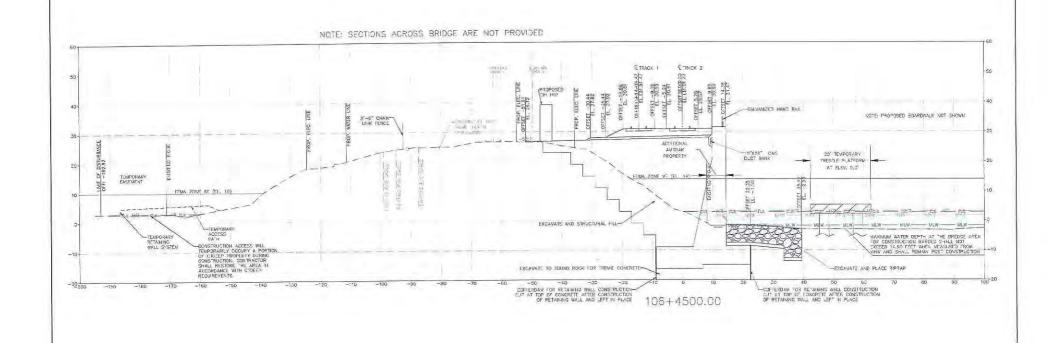
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ENVIRONMENTAL PERMIT PLANS

REPLACEMENT OF MB 106.89 OVER CONNECTICUT RIVER PROPOSED CROSS SECTIONS Designed KM Drawn CB Checked KF Date 5/0/2020 Sheet No. 34 OF 140 XCS-05



NOTES:

PERMITTED LIMIT OF DISTURBANCE ALLOWS FOR CONSTRUCTION AND REVOVAL OF TEMPORARY TRESTLE WORK PLATFORMS AND TEMPORARY ACCESS PATH.
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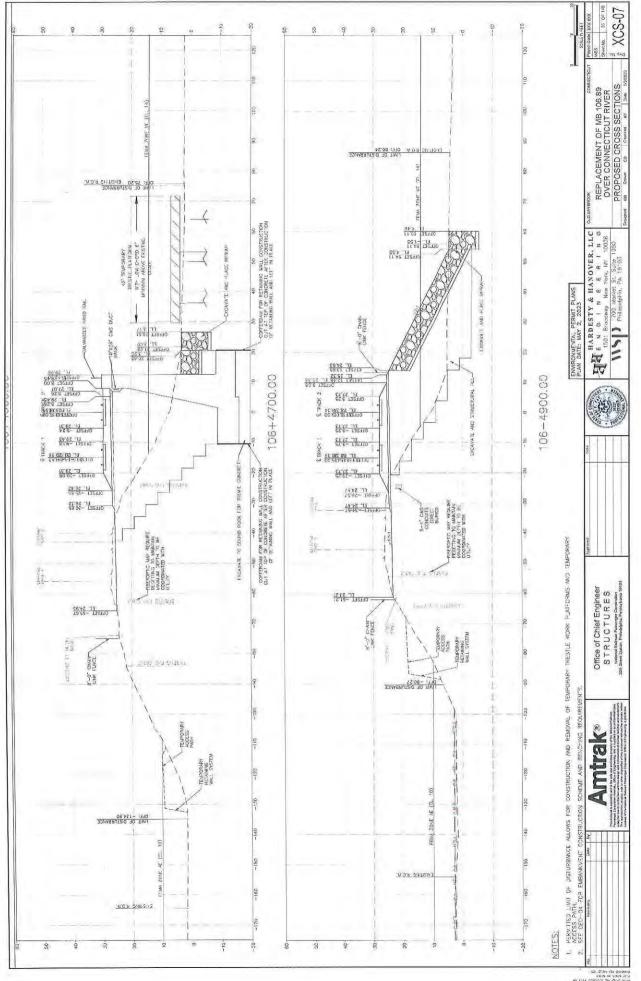
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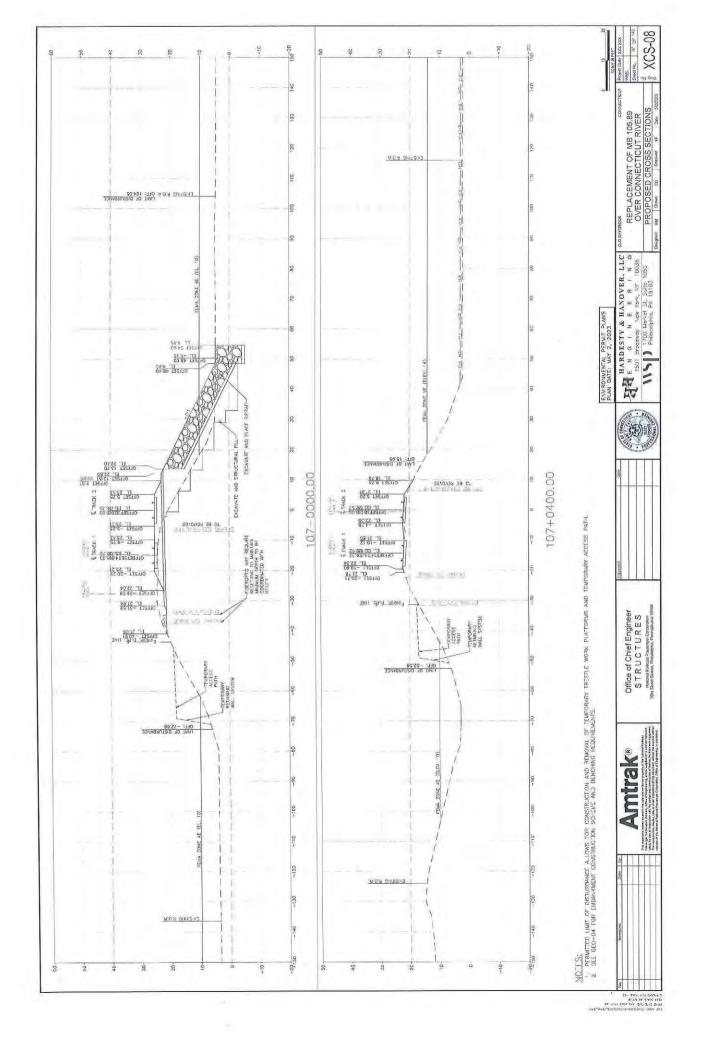
Office of Chief Engineer STRUCTURES National Railroad Possenger Corporation 30th Street Station, Philadelphia, Pennsylvania 19104

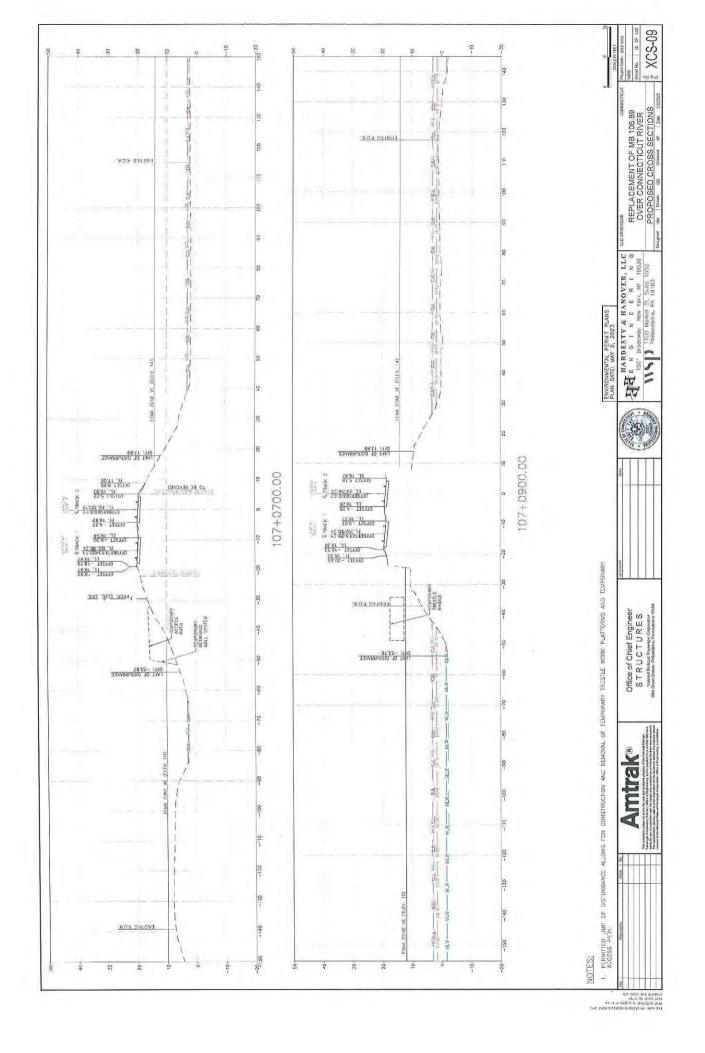
ENVIRONMENTAL PERMIT PLANS PLAN DATE: MAY 2, 2023 HARDESTY & HANOVER, LLC HARDESTY & HANDVER, BE E N G I N E E R I N G 1501 Broadwey New York, NY 10050 115]) 1700 Warket St. Suite 1050 Philadelphia, PA 19103

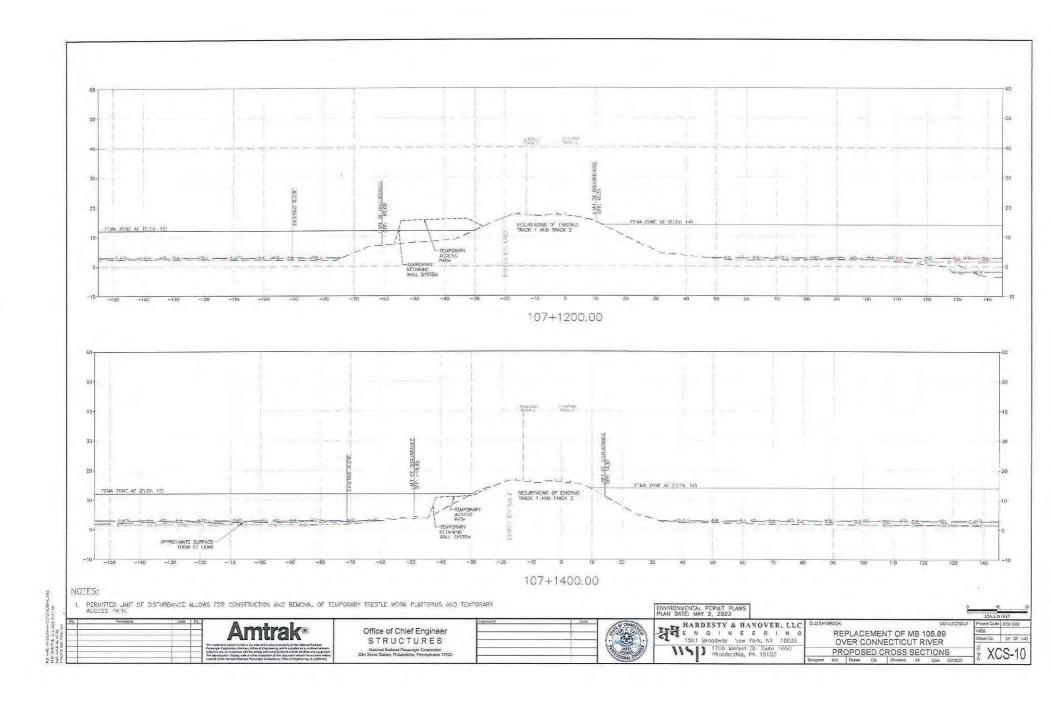
REPLACEMENT OF MB 106.89 OVER CONNECTICUT RIVER PROPOSED CROSS SECTIONS

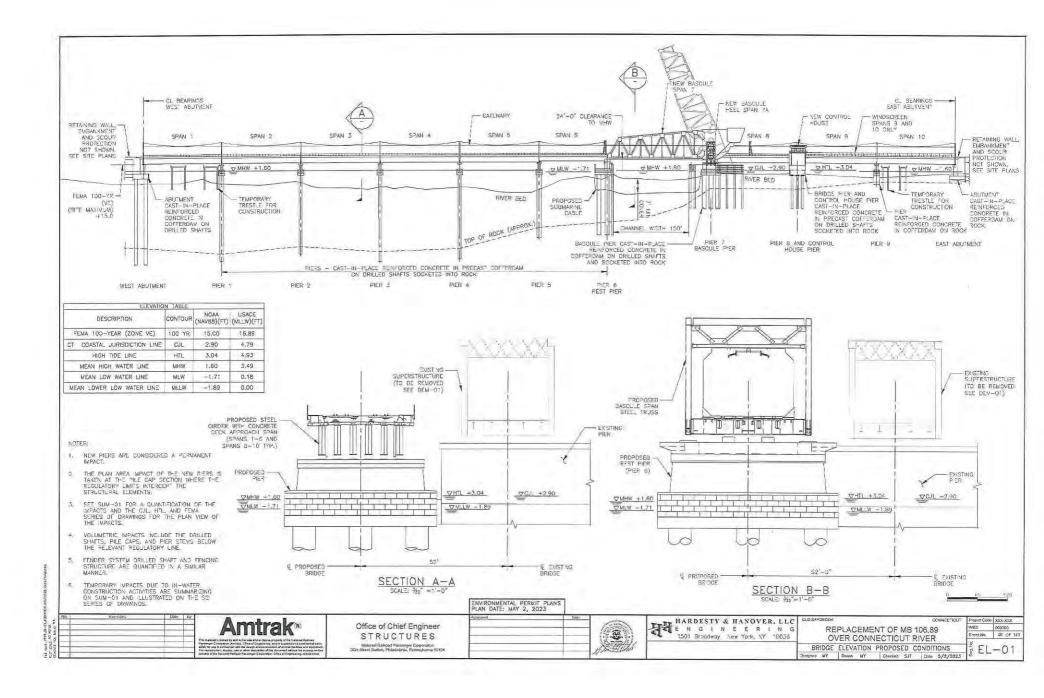
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	STAT	E (SEE CUL-## SHE	(SEE CUL-## SHEETS)			
SHEET (-##)	VEGETATED TIDAL WETLAND	BELOW CJL	(ABOVE CJL)	BELOW HTL		
-01	0	O	9	ō		
-02	O	0	Ö	O		
-03	Ö	a	5	0		
-04	5080	2000	7390	8630		
-05	17200 30340 4		420	47546		
-06	-06 0 (SEE NOTE 11)		C	33910 (SEE NOTE 11)		
-07	21320	33460	9840	78050		
-G8	1060	3950	740	5270		
-09	0	30	950	0		
-10	Ó	α 5		6 5		٥
-11		C	0	Ü		
-12	460	10	140	3490		
TOTAL	46120 SF (0.06 AC)	103700 SF (2,35 AC)	19510 SF (0.45 AC)	176690 SF (4.06 AC)		

SUMMARY OF PERMANENT IMPACTS (SF)

	STATE	FEDERAL (SEE HTL-## SHEETS)		
SHEET (-##)	VEGETATED TIDAL WETLAND	BELOW CUL	BELOW LOSTV (ABOVE CLL)	BELOW HTL
-01	C	Ō	D	0
-02	ū	0.	D	5
-03	9	Q	0	0
-04	11760	3*70	5440	15480
-05	57170 36540 6960		94710	
-06	ū	35990	0	35990
-07	150	29830	8900	31980
-08	-08 0 D C		a	
-09	ō	5	c	α
-10	à	:0:	C	0
-11	0	D	Q	0
-12	0	Ď	2	160
TOTAL	69090 3F (1,59 AC)	105530 SF (2,42 AC)	22300 SF (6.51 AC)	(4.09 AC)

	SUMMARY OF	IMPACTS	(AC)
	STA	TE	FEDERAL
TEMPORARY	3,89	AC	4.06 AC
PERMANENT	4.52	AG	4.09 AC

Office of Chief Engineer STRUCTURES Nasonal Relitors Pensetgel Corporation 30th Street Station, Preliadelphia, Pennsylvoms 10102

HARDESTY & HANOVER, LLC E N G I N E E R I N G 1501 Broadwey New York, NY 10036 115 1700 Worket St. Suite 1050 Philadelphia, PA 19105

REPLACEMENT OF MB 106.89 OVER CONNECTICUT RIVER IMPACT SUMMARY SHEET

SUM-0

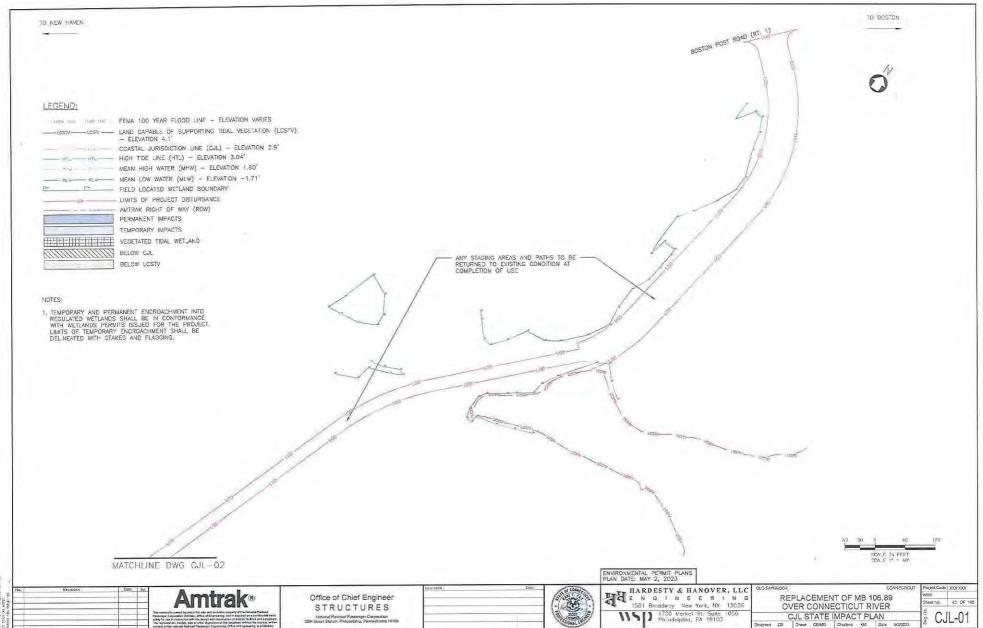
- T. VERTICAL DATUM IS NAVO SS, REGULATORY FLEVATIONS BASED ON NOAA GALISE SENCHYARK.
- 2. IMPACTS BELOW THE VEGETATED TIDAL WETLANDS INCLUDE AREAS FLAGGED IN THE FIELD, SHORE TO SHORE.
- 3. IMPACTS BELOW THE CUL INCLUDE AREAS BELOW THE CUL ELEVATION, SHORE TO SHORE, THAT ARE NOT INCLUDED AS VEGETATED TIDAL WETLAND.
- 4. IMPACTS BELOW THE LAND CAPABLE OF SUPPORTING "IDAL VEGETATION (LOSTY) INCLUDE AREAS BELOW THE LOSTY ELEVATION, SHORE TO SHORE, THAT ARE NOT INCLUDED AS BELOW CUI, OR VEGETATED TIDAL WETLAND.
- 5. IMPACTS BELOW THE HTL INCLUDE ALL AREAS BELOW THE HTL ELEVATION, SHORE TO SHORE, INCLUDING THOSE DESIGNATED AS VEGETATED TIDAL WEILAND, WHILE NOT BELOW THE HTL, THE SMALL AREAS OF FLAGGED VEGETATED TIDAL WEILAND'S LOCATED ABOVE THE HTL WHERE INCLUDED IN THESE MIPACT NUMBERS.
- HE 100-YEAR FLOOD ELEVATION VARIES THROUGHOUT THE SITE. SEE FLOOD INSURANCE RATE MAP (FRV) PANELS 0900700361J (EFT. 2/6/2013), 090100461. (EFF. 8/5/2013), AND 0901004652J (FFF. 8/5/2013) FOR FLEVATION VALUES AND LIVITS OF ASPLICABILITY.
- 7. TURBIDITY CURTAINS ARE REQUIRED FOR ALL CONSTRUCTION ACTIVITIES DISTURBING THE RIVER BOTTOM INCLIDING, BUT NOT LIMITED TO, CRILLED SHATT INSTALLATION, SUBVARINE CABLE REMOVAL AND INSTALLATION, EXISTING FIRE REMOVAL, AND EXISTING FIRE REMOVAL, AND EXISTING FIRE REMOVAL, AND EXISTING
- B. TURBIDITY CURTAINS THAT ARE REQUIRED TO ENVELOPE LARGER WORK AREAS WITH MULTIPLE BARGES ARE ASSUMED TO BE SUPPORTED WITH 10° DAVETER PIN PILES STACED AT APPROXIMATELY TO FEET ON CENTER, PIN PILES FOR TURBIDITY CURTAINS ARE NOT SHOWN, REMOVED PIN PILES ARE A TURBIDITY CURTAINS ARE NOT SHOWN, REMOVED PIN PILES ARE A TURBIDITY CURTAINS ARE NOT SHOWN.
- 9. TURBIDITY CURTAINS ARE REQUIRED FOR MAY ACTIVITIES REQUIRING BARGES TO BE SECURED TO THE RIVER BOTTOM WITH SPUD PILES. WHERE A TOTAL ENCLOSURE IS NOT REQUIRED, IT IS ASSUMED THAT TURBIDITY CURTAINS WILL BE SUPPORTED OF
- 10, SEE DRAWING SCHOT THROUGH SCHOR SUGGESTED BARGE LAYOUTS AND TURBIDITY CURTAIN LIMITS FOR NEWATER WORK ACTIVITIES.
- 11, THE VAXIMUM TOTAL TEMPORARY IMPACTS BUT TO TURBIDITY CURTAIN PIN PILES AND BARGE SPUD PILES IS APPROXIMATE 9,500 ST AND IS INCLUDED IN THE VALUES AT LEFT IN THE SHEET "-D6 VEACTS, THIS IMPACT ACCOUNTS FOR WORK ASSOCIATED WITH CRILLED SHAFT INSTALLATION, PIER CONSTRUCTION, SPAN INSTALLATION, SUBVERHIEC CASLE REMOVAL, AND INSTALLATION, EXISTING PIER REMOVAL, EXISTING SPAN REMOVAL, AND WORK ASSOCIATED WITH EXISTING AND WERY FISHING HERS.

TIDAL	DATUM	NOAA (NAVD88)(H)
Tall		2.90
MLW		-1.71
	. AM:	1.60
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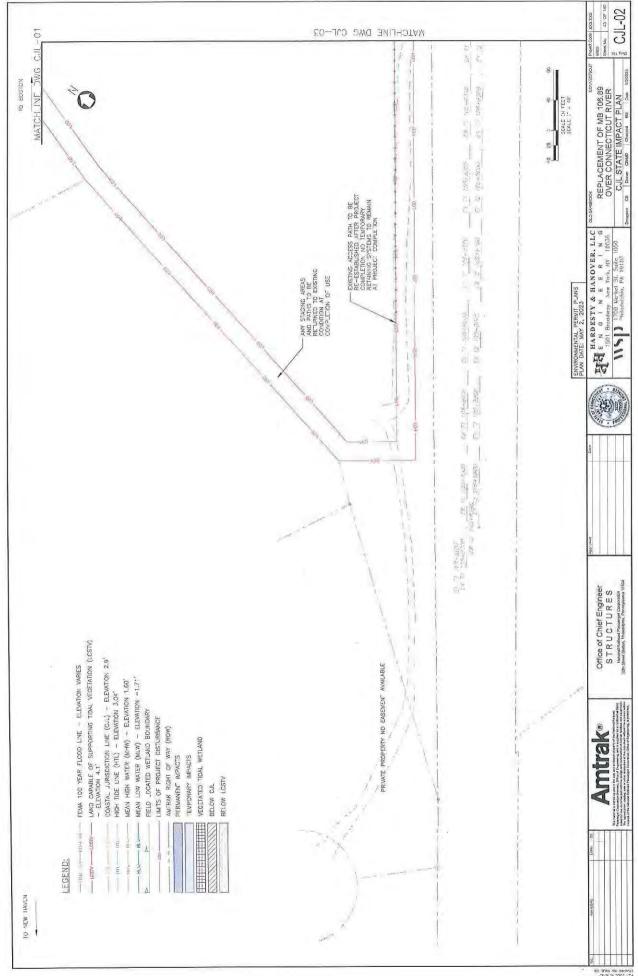
ALL ELEVATIONS SHOWN ARE APPROXIMATE AND CONTAINS AN ACCURACY OF C. O' ± BASED ON RELATION WITH THE USOS AND NOWA CAUCE BENCHMARKS INTERPOLATION AND FIELD

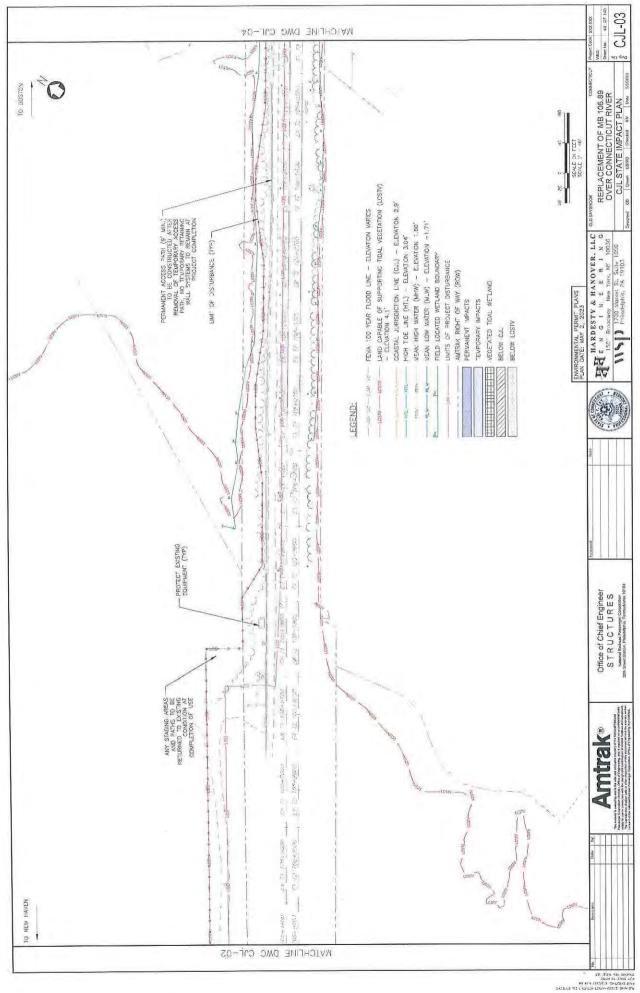
THA FLOODFILAIN VOLUMES	CUT/REM	OVA.	TLL/INSTALLATION	KET
EMBANKMENTS AND RIPRAP =	20500	± CY	58770 ± CY	38270 = CY
RETAINING WALLS, ABUTMENTS, AND PIPRAP -	27520	± CY	43840 ± 04	16220 = CY
BARGE ACCESS FOR TEMPORARY TRESTLE WORK PLATFORM =		± CY	D± CY	-6800 = CY
NEW SUBSTRUCTURE AND FENDER =	10480	± CY	21900 ± CY	11420 = CY
REMOVAL OF EXISTING SUBSTRUCTURE =	9820	± CY	YO ± C	-9820 ± CY
NEW FISHING PIER BOARDWALK =	560	= CY	1510/± CY	1050 ± CY
REMOVAL OF FISHING PIER BOARDWALK =	710	= CY	Dit OY	-710 ± 5Y
SUBVARINE CAGLES =	3300	= CY	3300 ± 5Y	D ± CY
TOTAL	79790	= CY	129420 ± CY	49630 ± CY

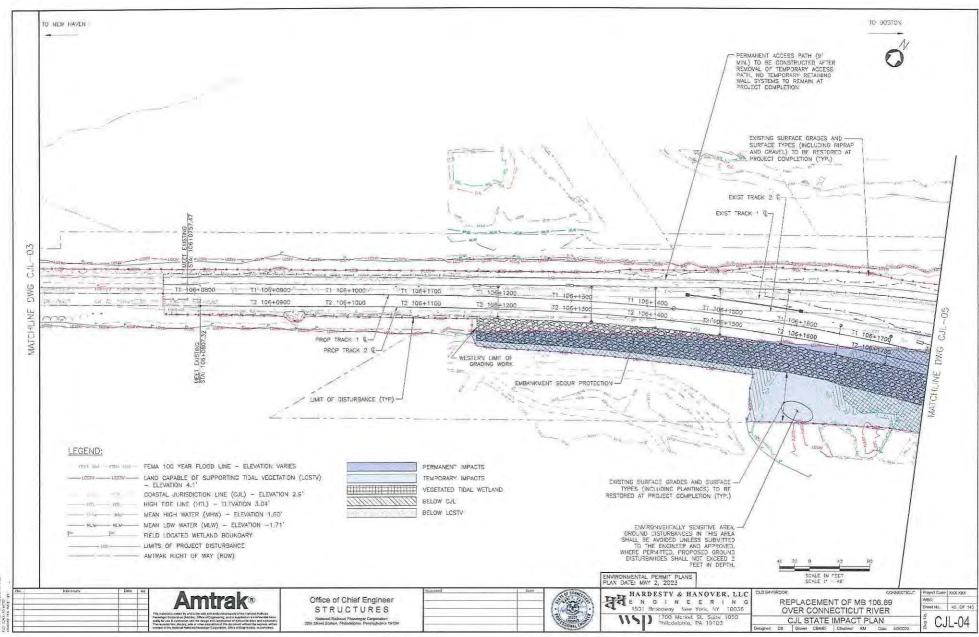
VOLUMES BELOW HTL		CUT/REMOVAL			F_L/INSTALLATION		NET		
EMBANKMENTS AND RIPRAP =	14460	ŧ	CY	17250	± CY	2790	7	CY	
RETAINING WALLS, ABUTMENTS, AND RIPRAP -	13240	±	CY	18690	± CY	3450	31	CY	
BARGE ACCESS FOR TEMPORARY TRESTLE WORK PLATFORM =	6800	4	CY	0	± CY	-6800	48	CY	
NEW SUBSTRUCTURE AND FENDER =	10480	±	CY	20010	± CY	9530	- 11	C	
REMOVAL OF EXISTING SUBSTRUCTURE =	7010	+	CY	0	± CY	-7010	=	C	
NEW FISHING PER BOARDWALK -	560	±	CY	590	1 CY	30	16	C	
REMOVAL OF FISHING PIER BOARDWALK =	25	#	CY	0	± CY	-25	=	CY	
SUBMARINE CABLES =	3300	±	CY	3300	± CY	C	=	C	
TOTAL	55875	4	CY	57840	+ GY	1985		CY	



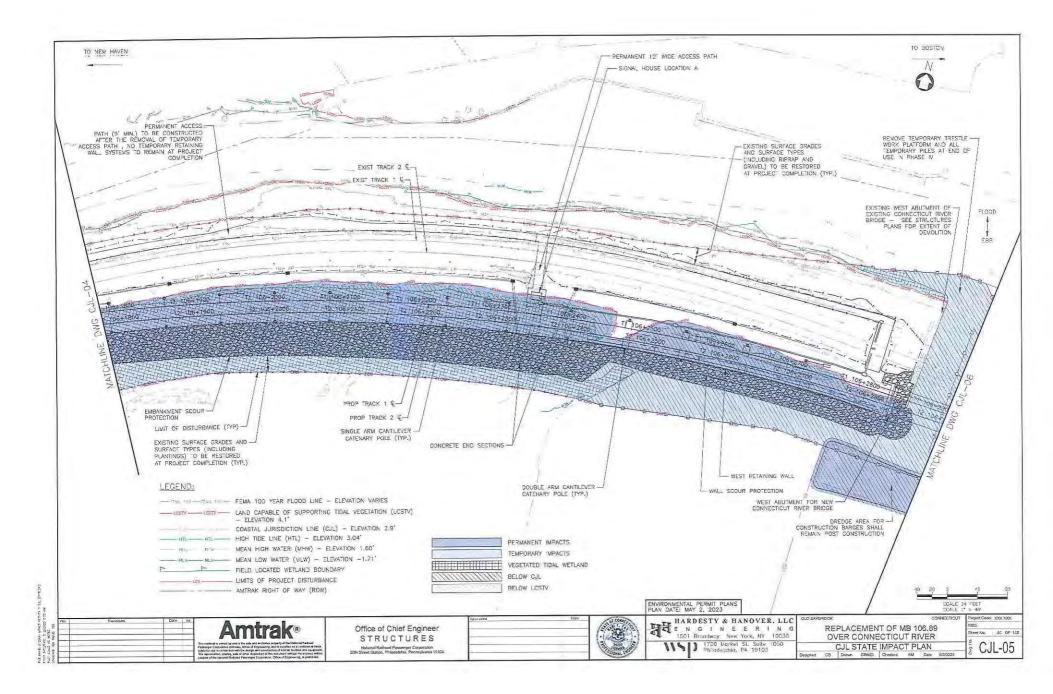
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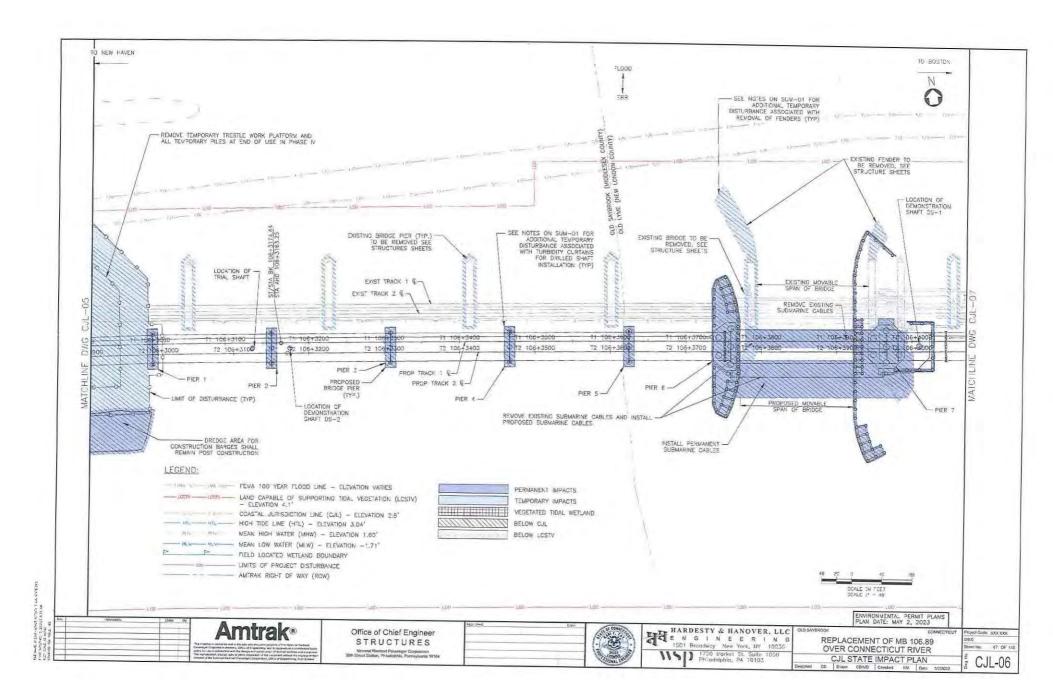


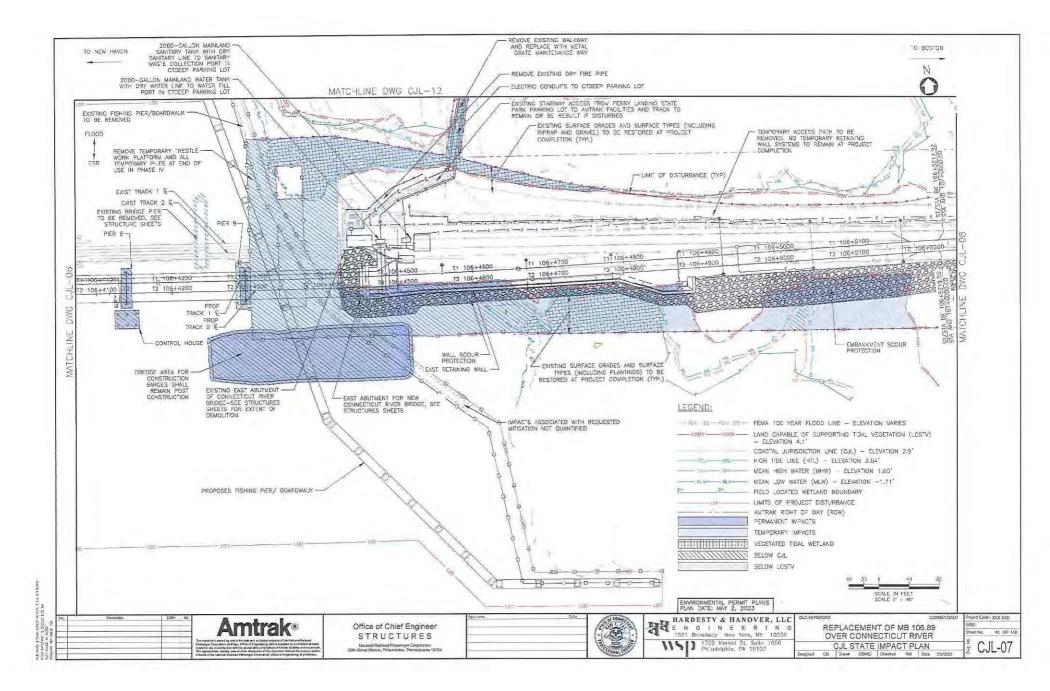


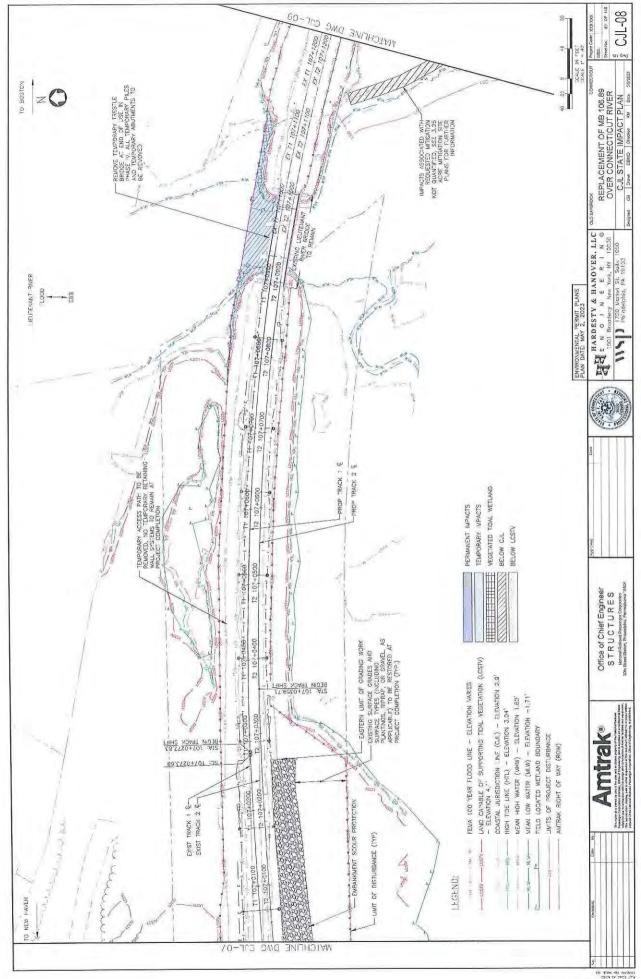


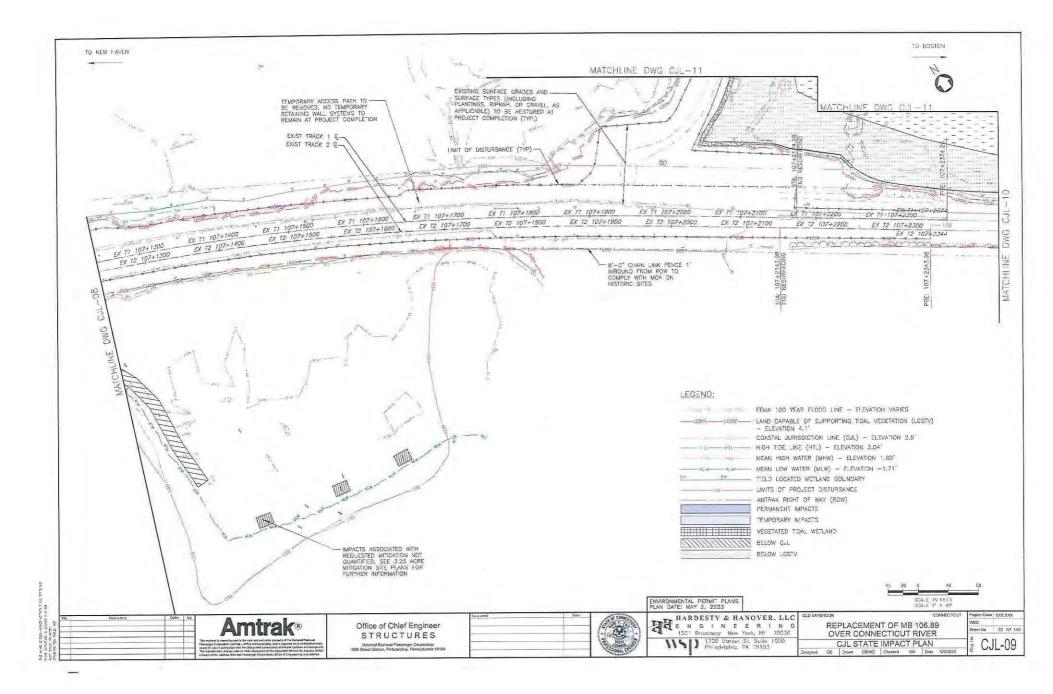
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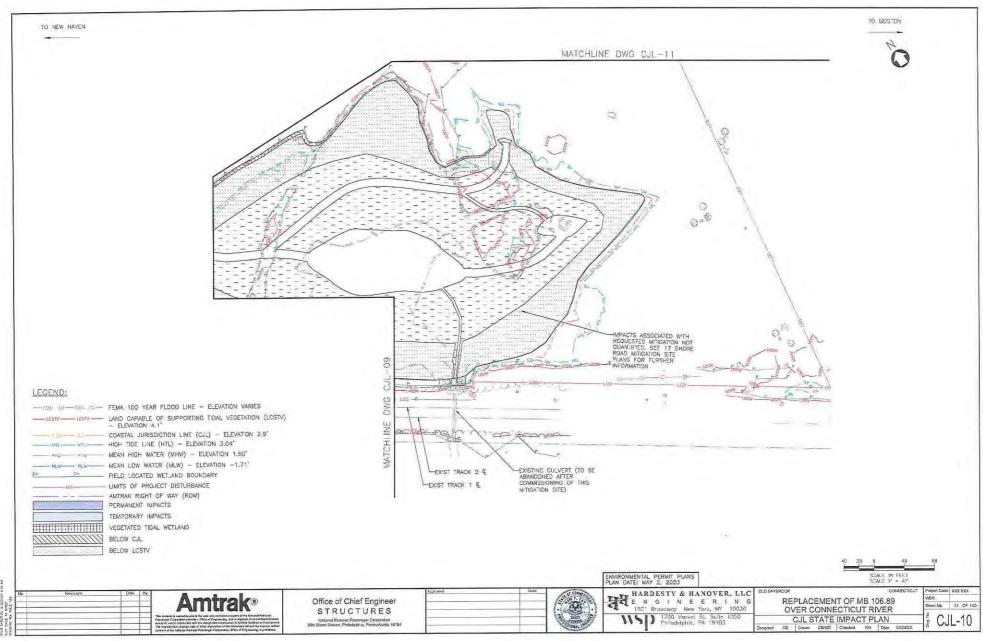




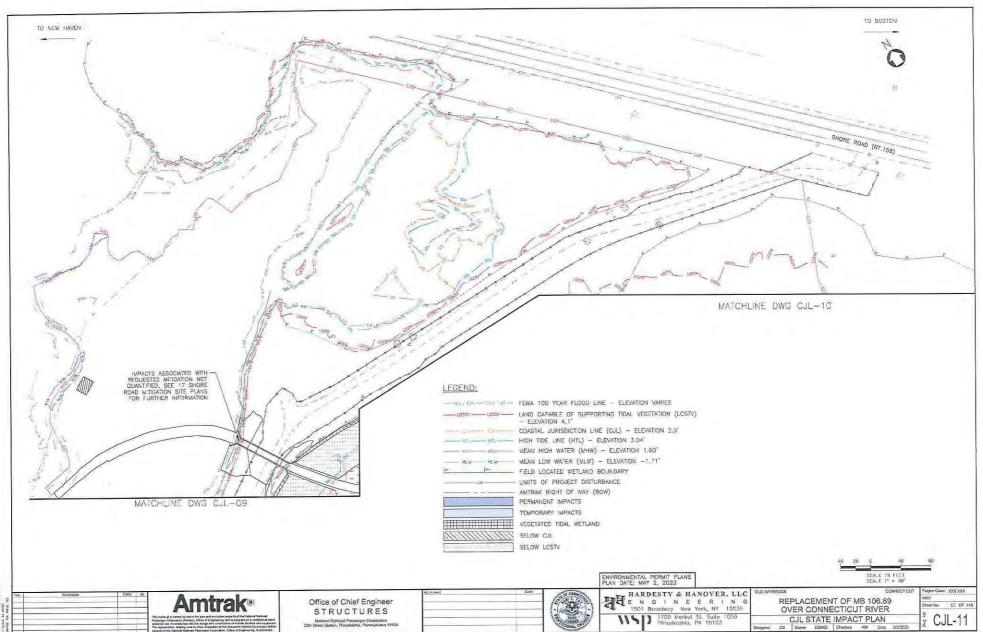




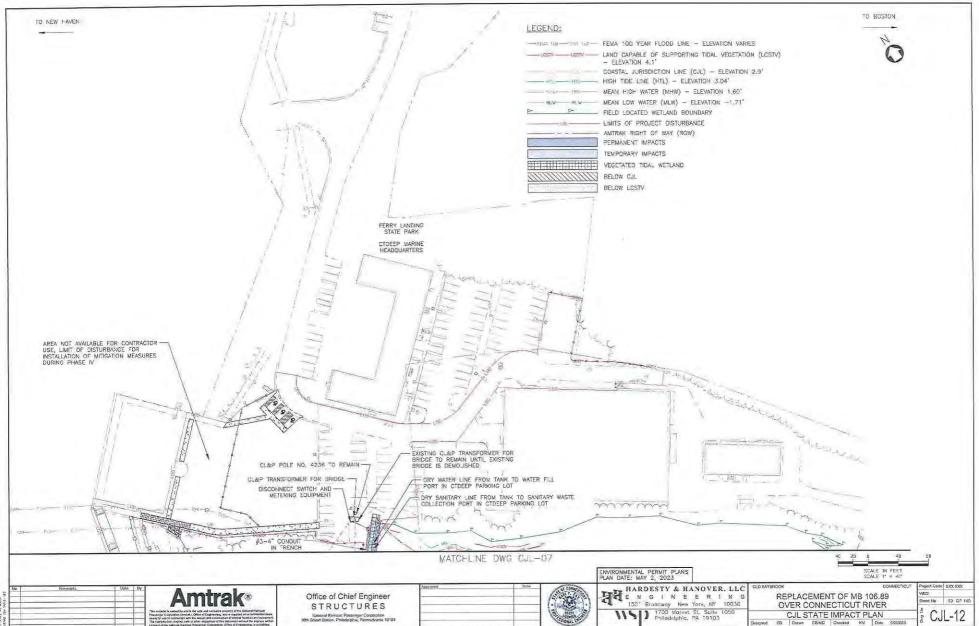




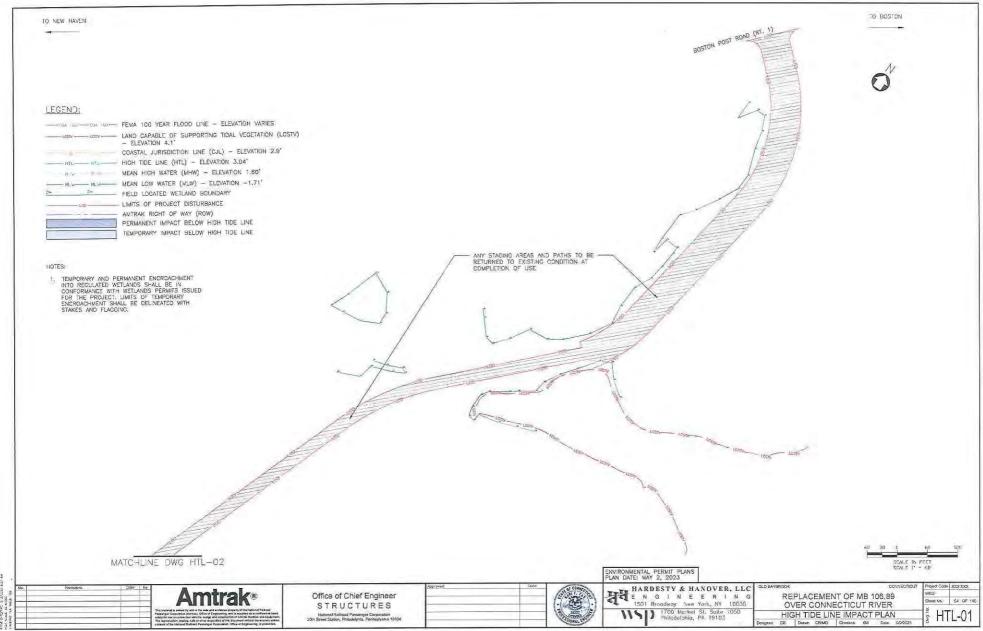
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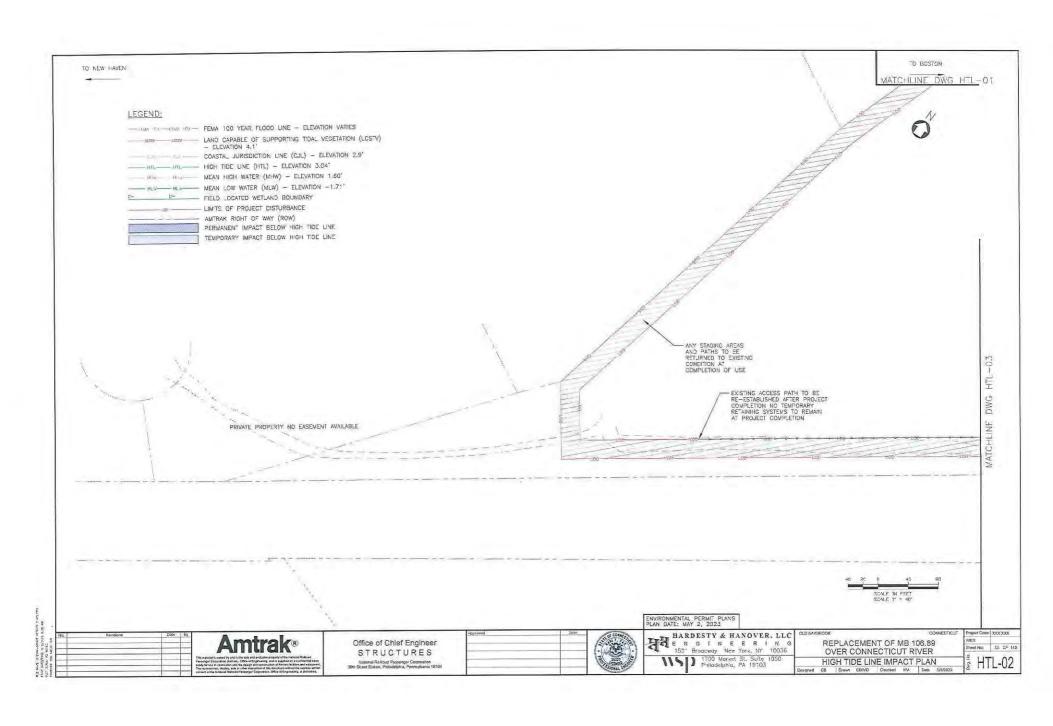
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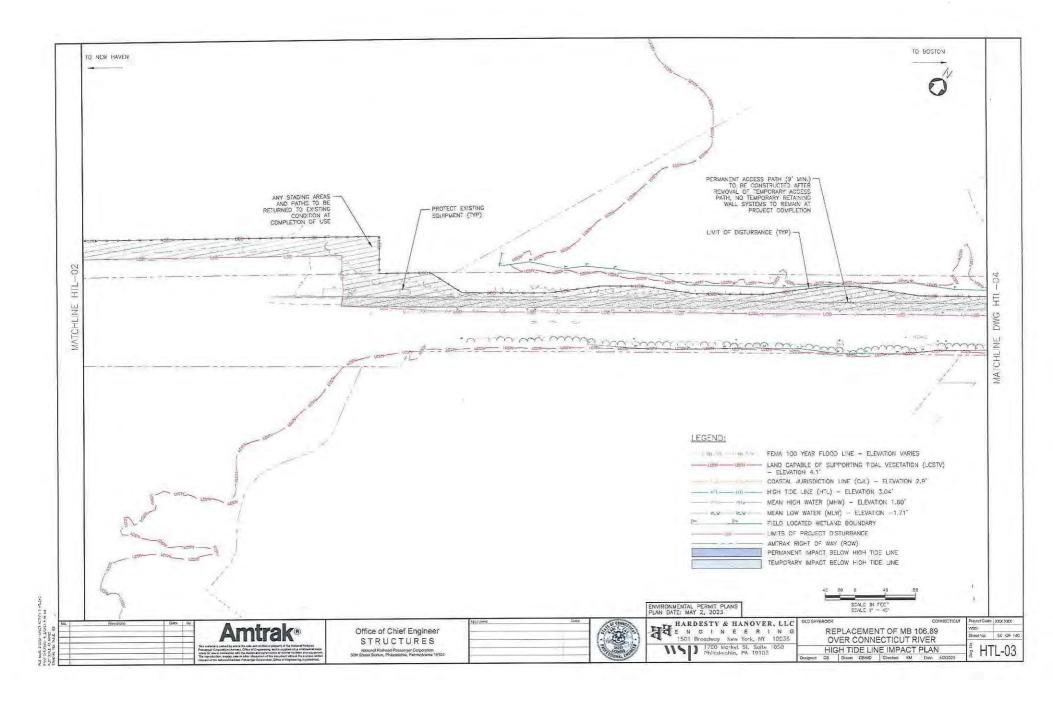


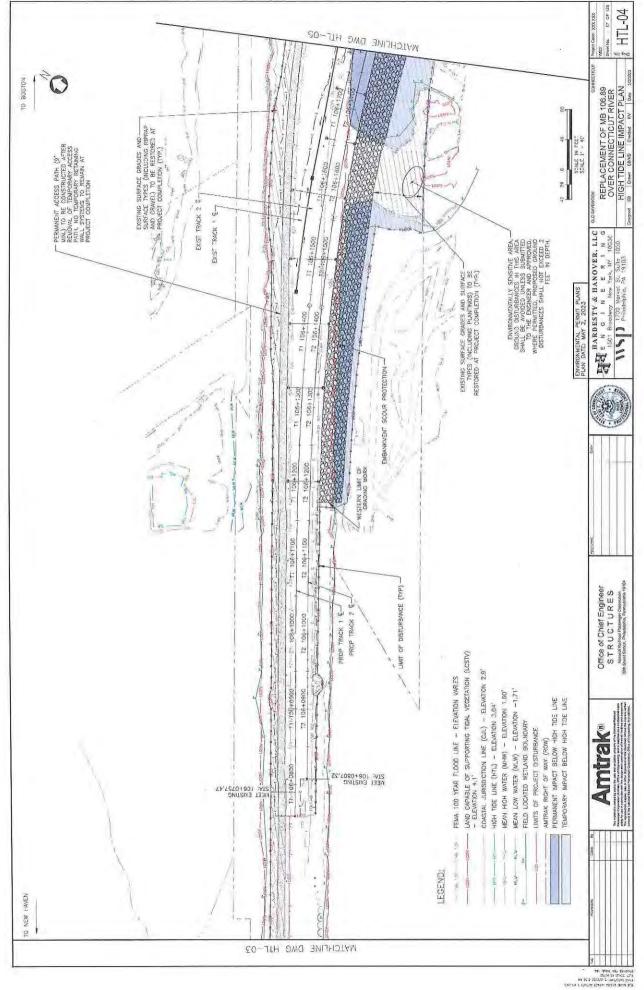
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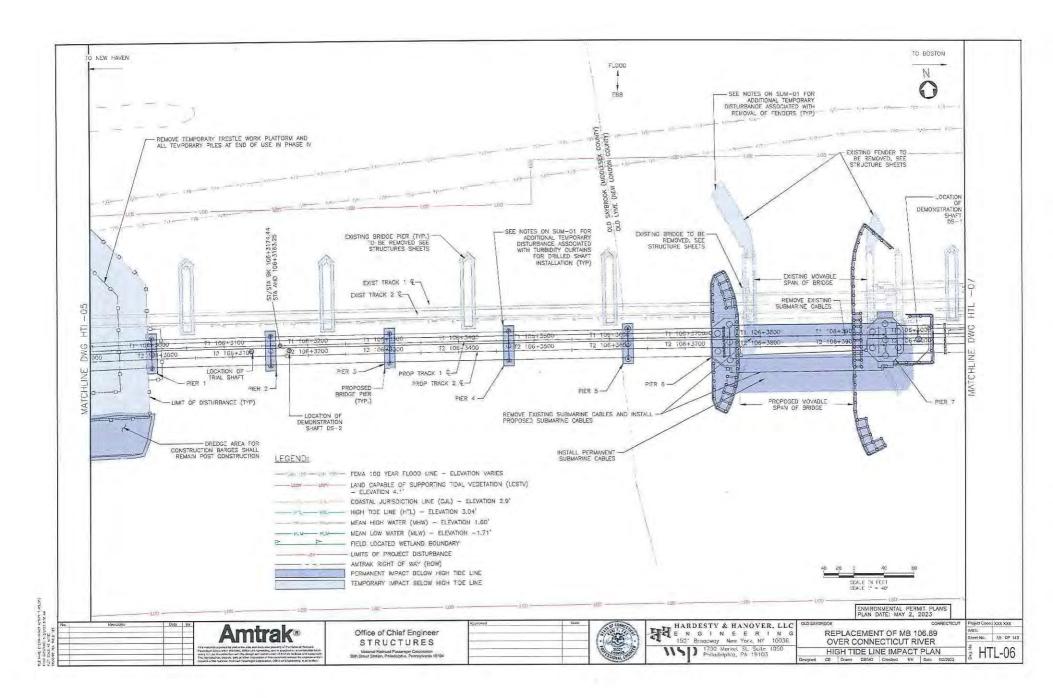


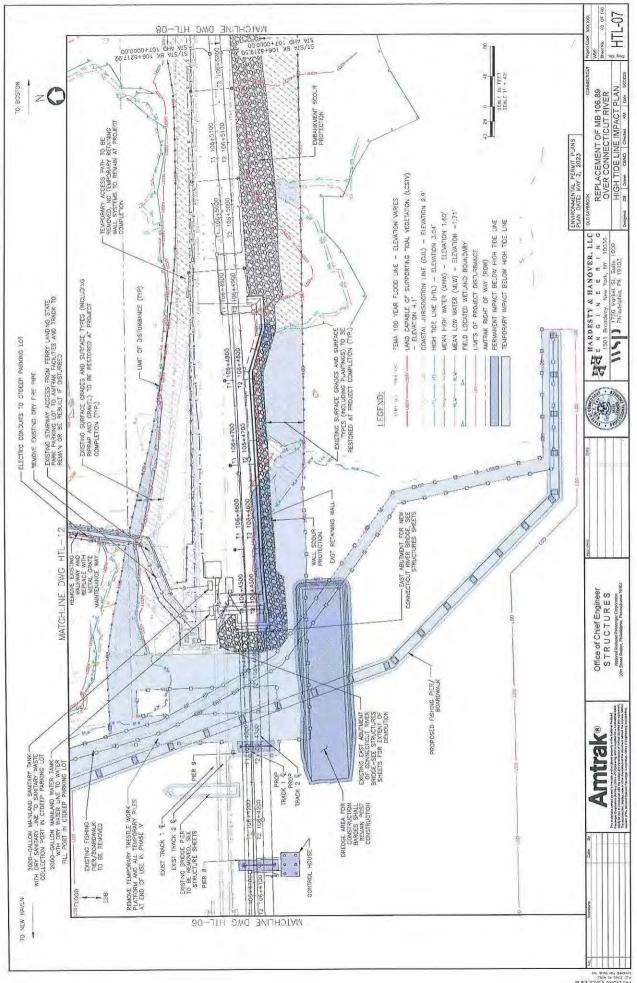
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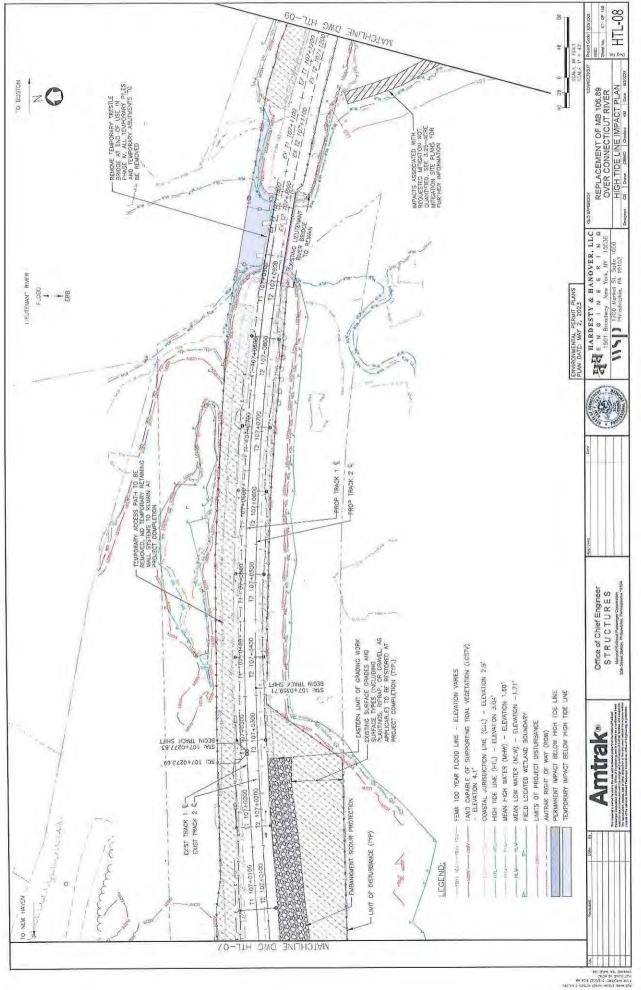


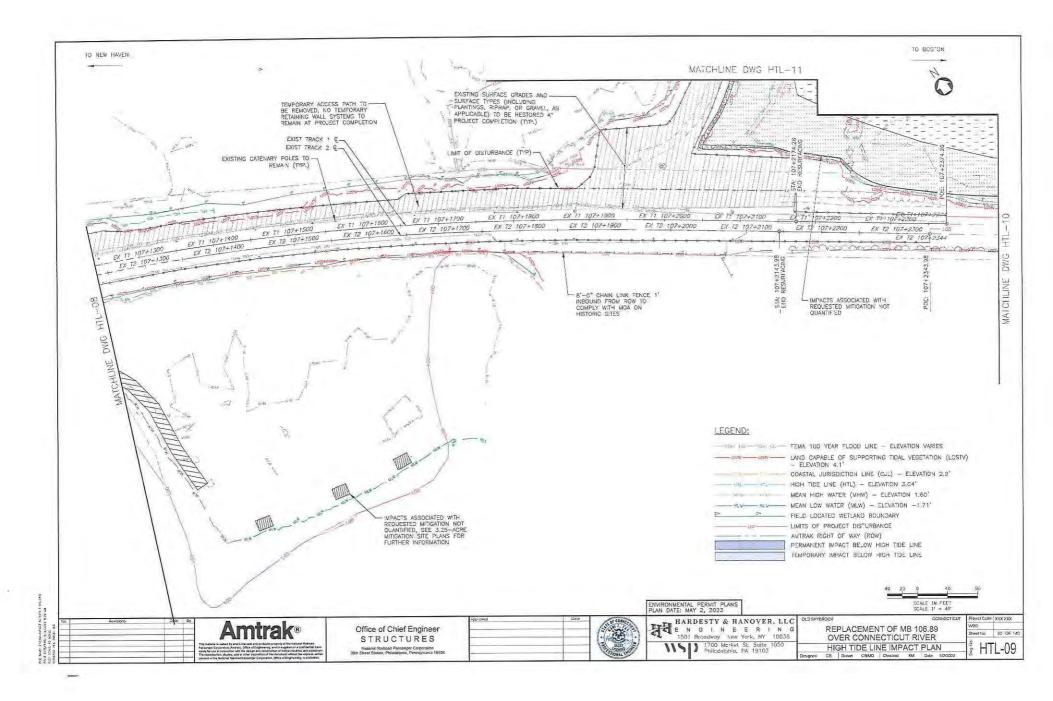


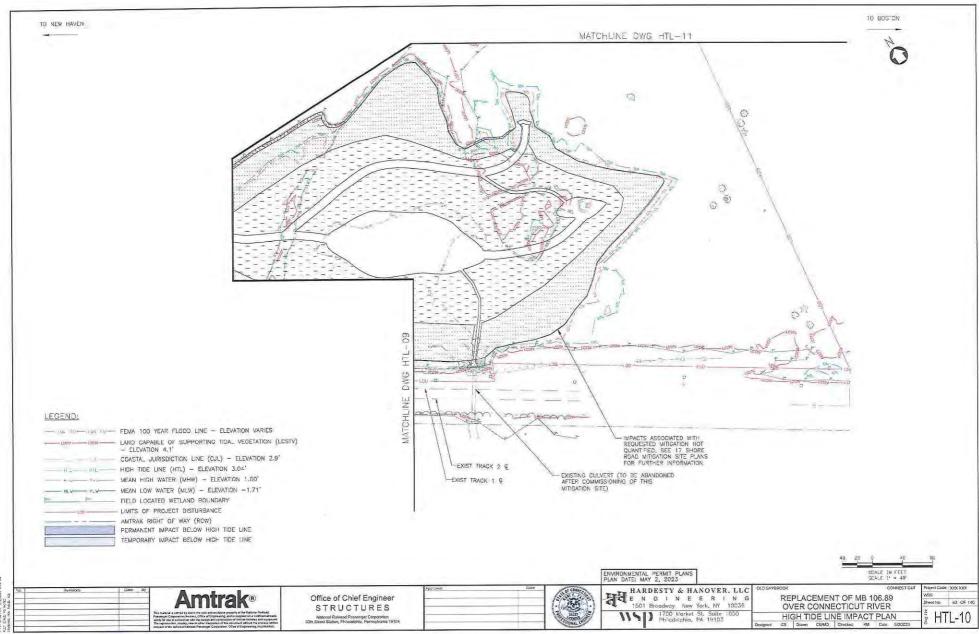




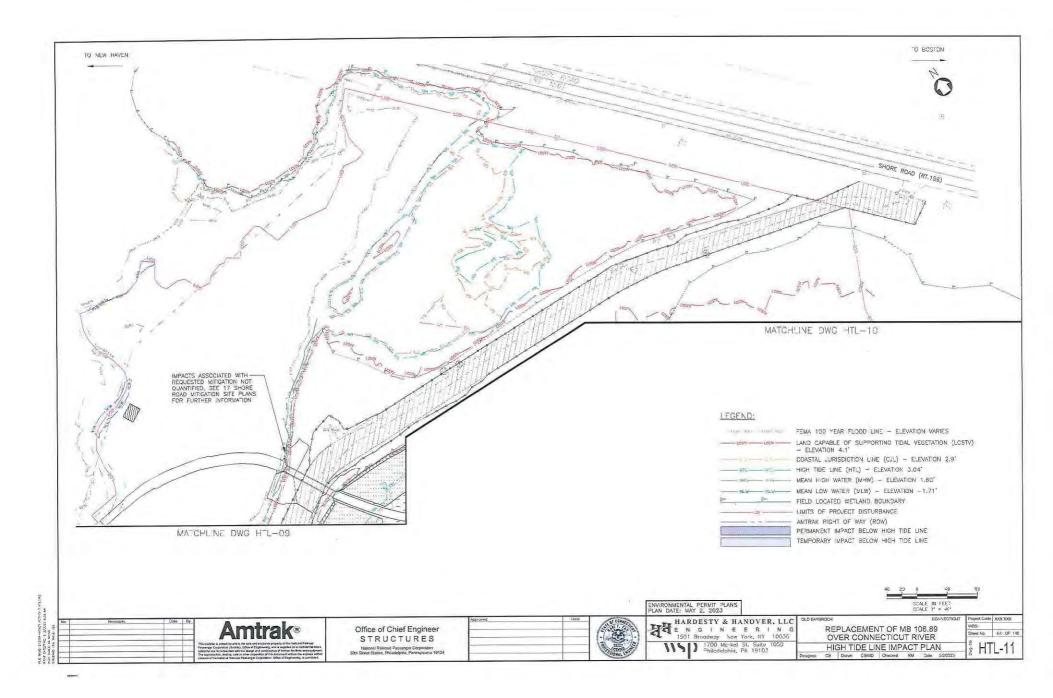


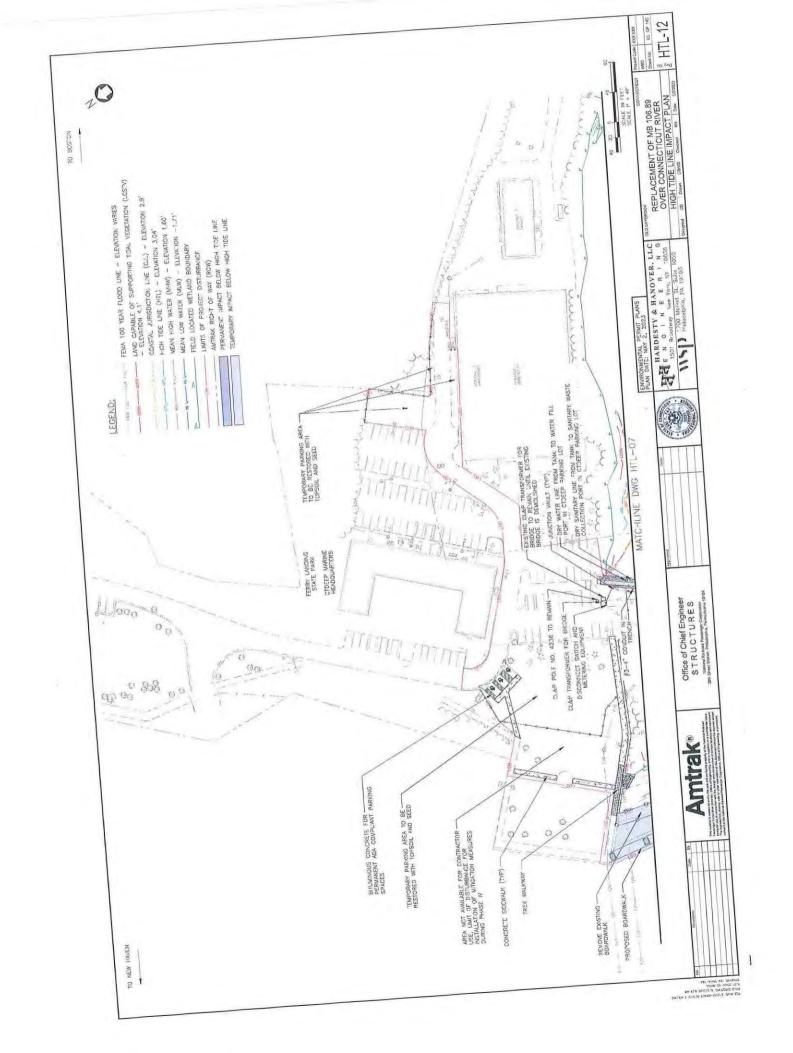


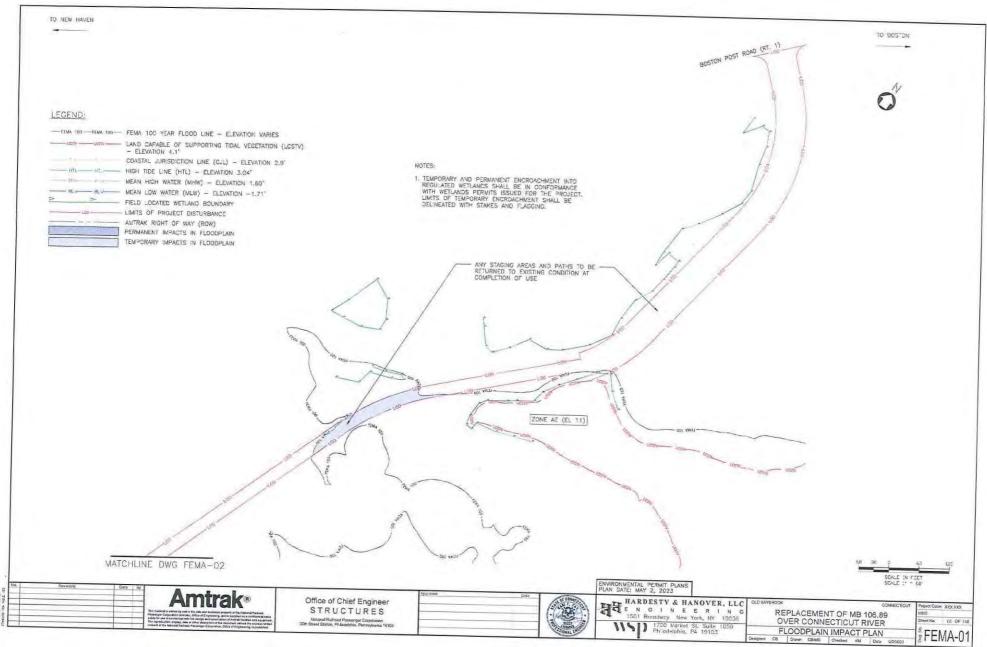




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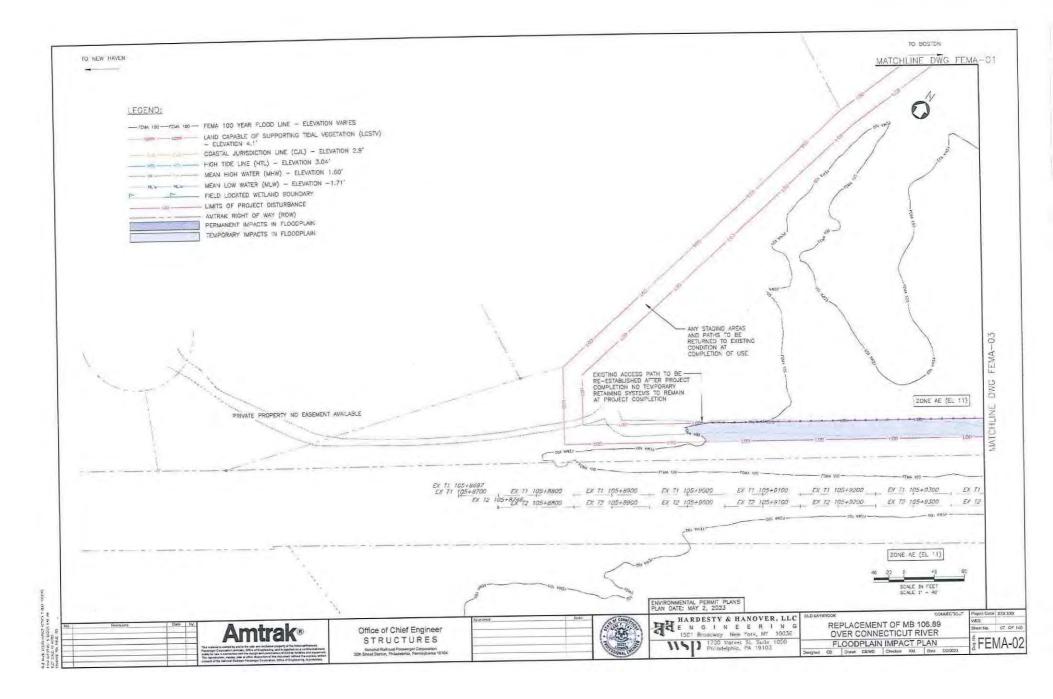


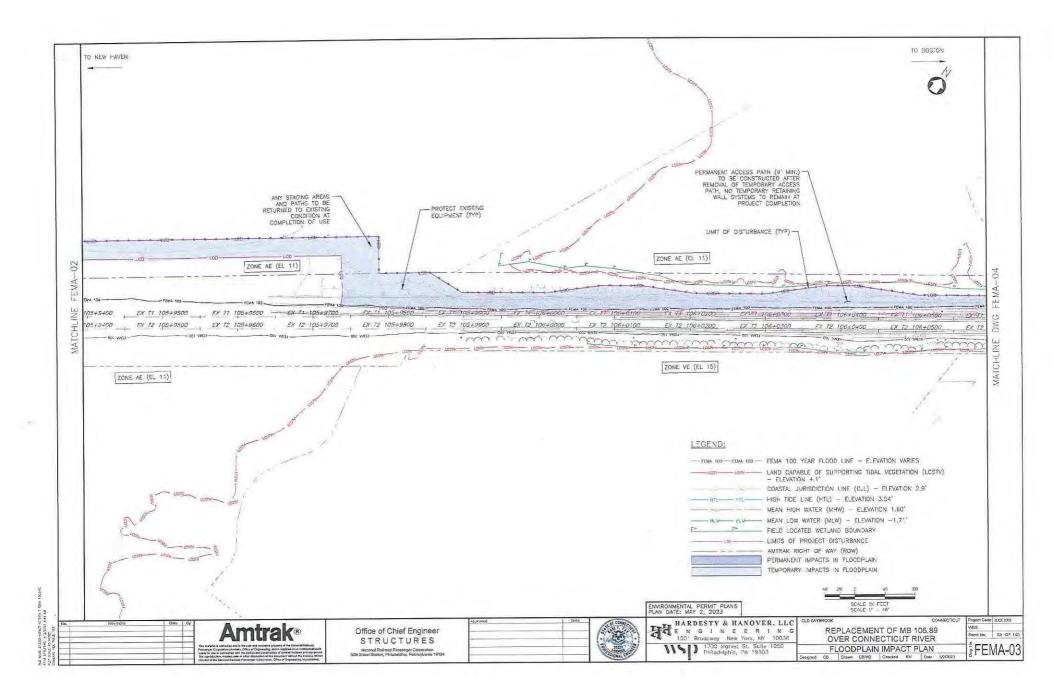


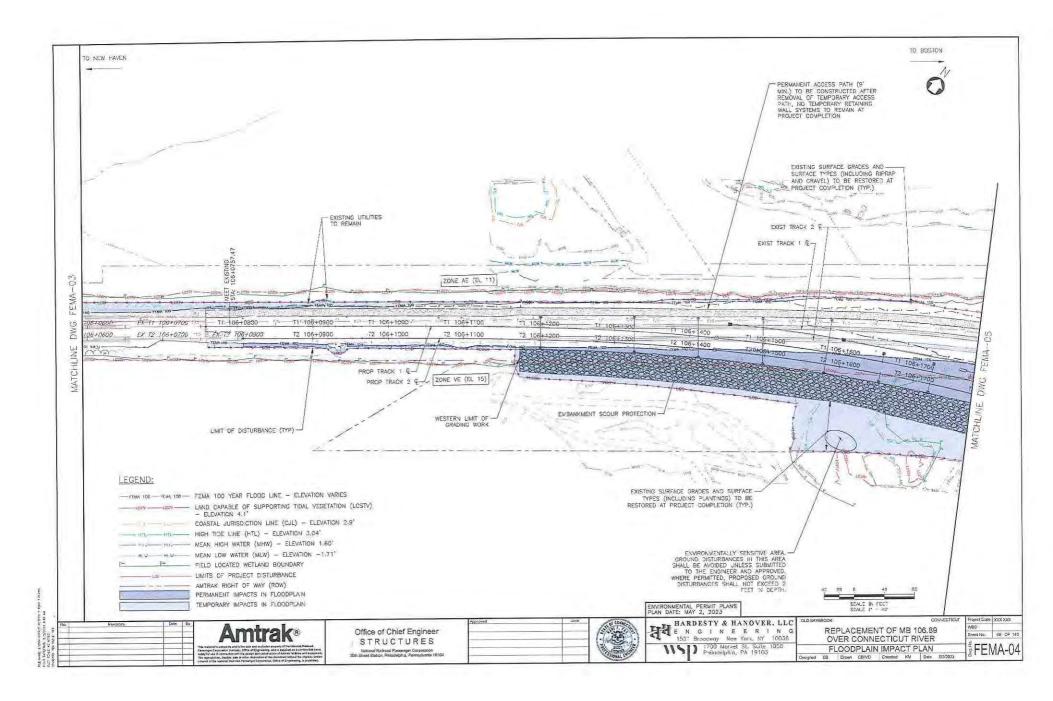


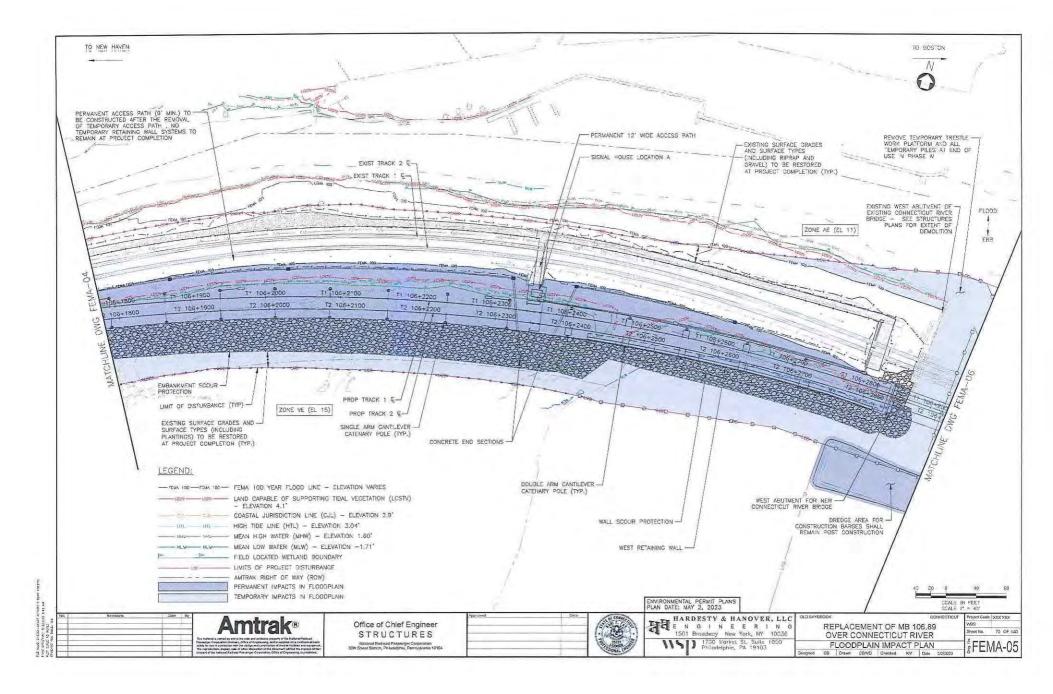
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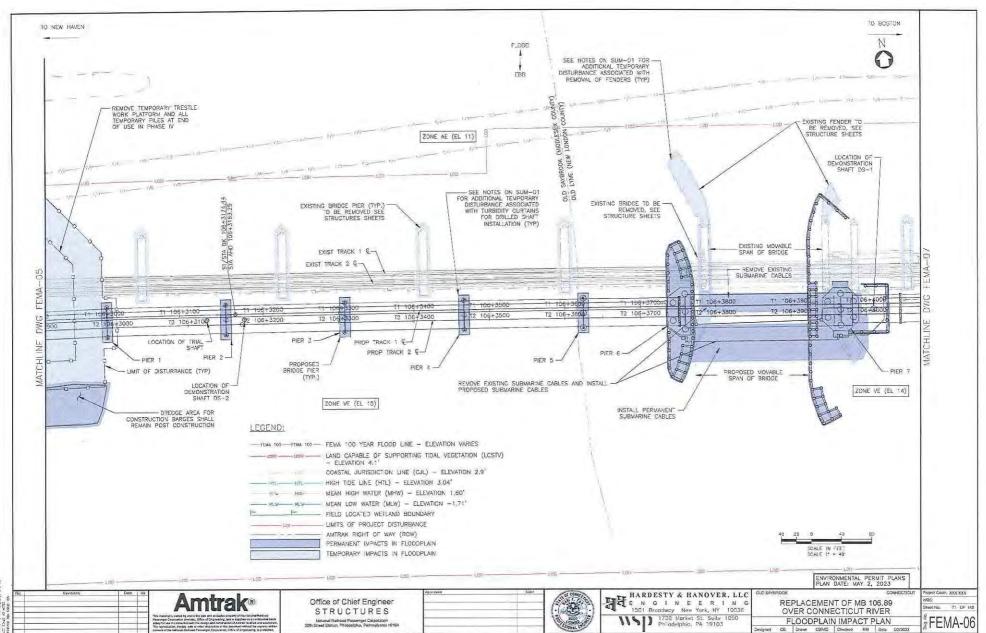
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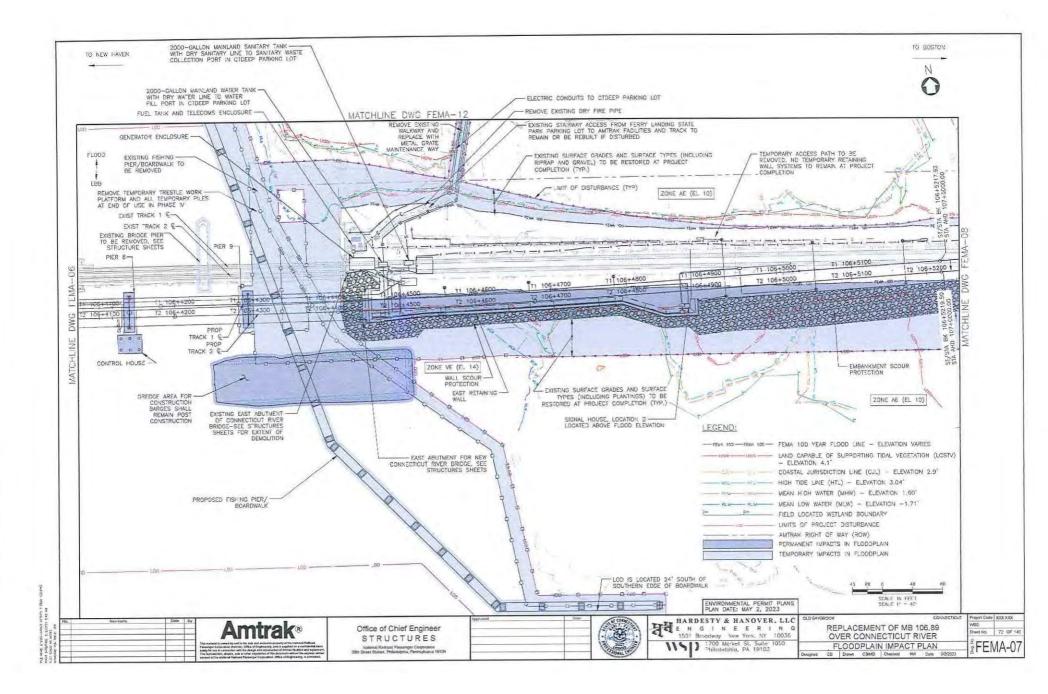


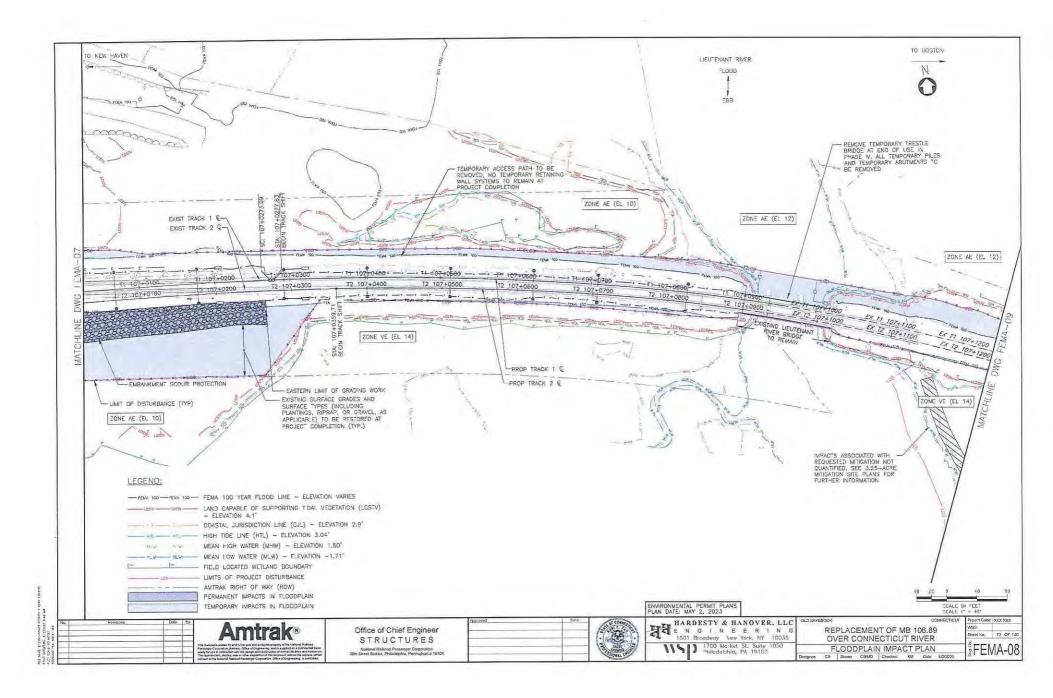


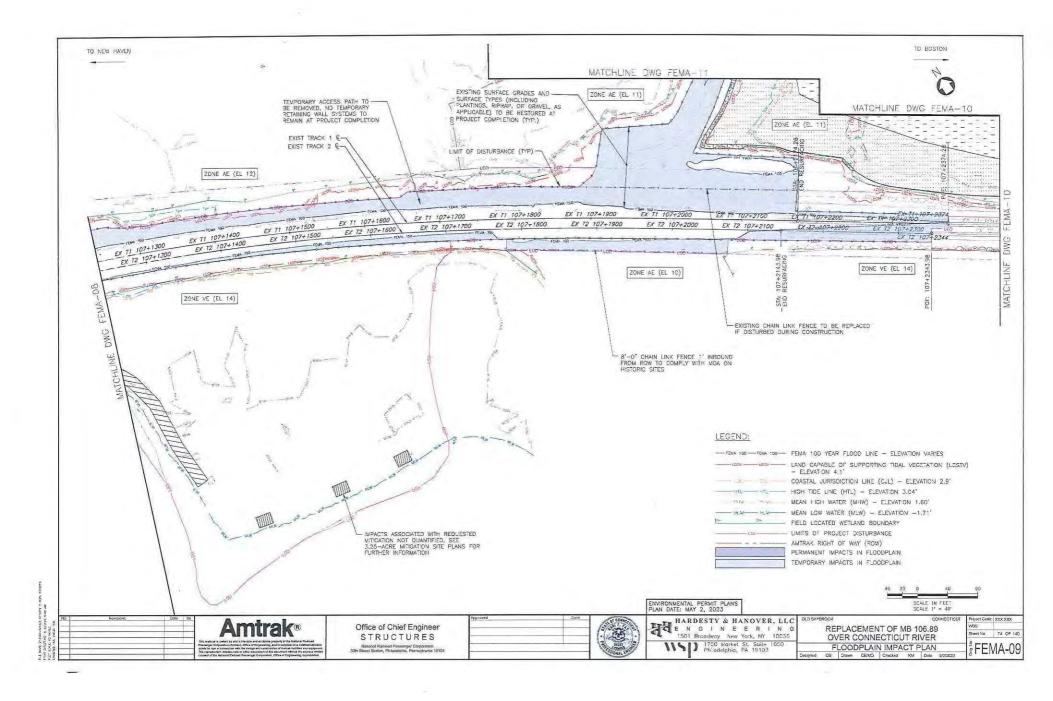


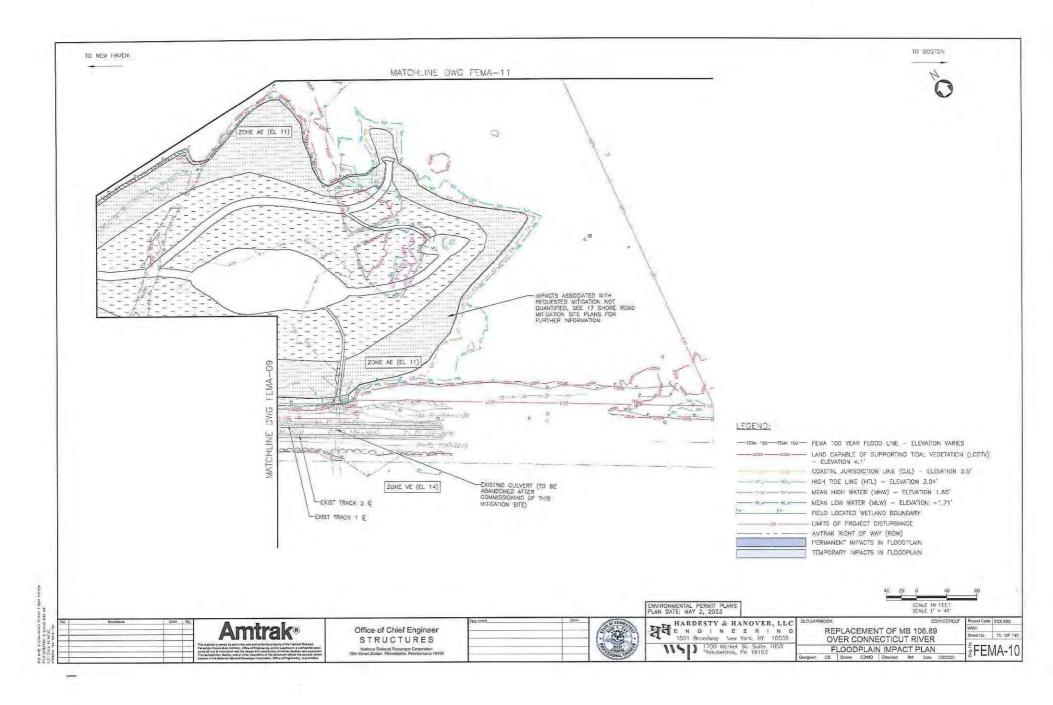


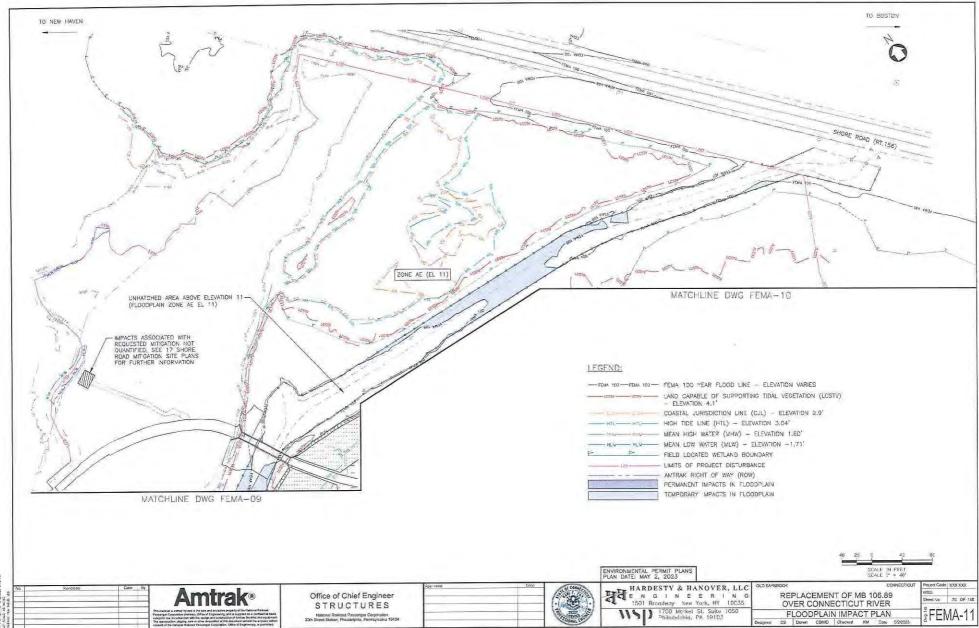
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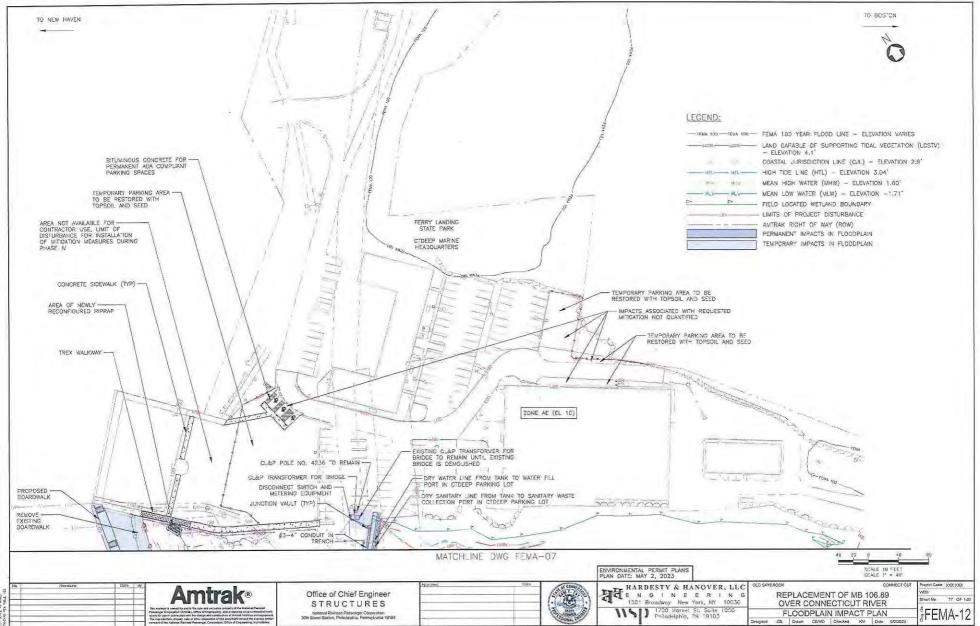








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SUGGESTED CONSTRUCTION SEQUENCE

THIS SUGGESTED CONSTRUCTION SEQUENCE PROVIDES A SUMMARY OUTLINE FOR A POTENTIAL SEQUENCE OF CONSTRUCTION ACTIVITIES. THE CONTRACTOR IS RESPONSIBLE FOR ACTUAL CONSTRUCTION PLANNING. SCHEDULING AND COORDINATION AND ENSURING ALL REQUIRED TEMPORARY ENVIRONMENTAL GAFEGUARDS ARE INSTRUCTED AND MAINTAINED WITH ALL PERMITS.

PHASE I SUMMARY

PHASE I CONSISTS OF CONSISTENCIAN. THE NEW BRIDGE ELECTRIFICATION AND CAS FACILITIES, PART OF THE SENDEP SYSTEM AND SUBSTANTIAL FORTIONS OF THE WEAR-PRINGE APPROACHES IN THEIR CATRICTY. TWO TRACK RAILEGES SERVICE WILL COSTINUE UNIMIDATED BY THE SENSING STRUCTURE AND APPROACHES FOR THE DURATION OF THIS PHASE, EXCEPT FOR WHOOMS FOR THE COSTINUE REPORT OF THE SENSING STRUCTURE AND ANTICOLOGY AND CONTROL STRUCTURE AND CONTROL SYSTEMS, THE PROPERTION AND CAS SUBMARINE CABLE REPORTING. TEMPORARY PACLIFIES REQUIRED WHO EXPORTING AND CONTROL SYSTEMS, THE PROPERTION AND CAS SUBMARINE CABLE REPORTING THE PROPERTY OF THE TRACK AND CONTROL SYSTEMS, THE EXISTING FERRY PARK LANDING SOASOWAK WILL BE CONSTRUCTION. THE NAMEATION CHANNE WILL BE SLEETLY MARROWED DURING THIS PHASE CONSTRUCTION TO CONSTRUCTION OF THE NEW MOVABLE SHAPE AND LANDING SOASOWAK WILL BE REQUIRED FOR SUBMARINE CABLE WORK AND PROPOSED FLOAT—IN OF THE NEW MOVABLE SPAN.

PH IA! BEGIN CONSTRUCTION

- MOBILIZE, CLEAR SITE, AND BEGIN SETTING UP TEMPORARY ENVIRONMENTAL AND SECURITY SAFEGUARDS, APPLICABLE TEMPORARY ENVIRONMENTAL SAFEGUARDS TO BE IMPLEMENTED PRIOR TO EACH APPLICABLE MOSTALLATION AND DEMOLITION ACTIVITY AND TO REMAIN MY PLAGE UNTIL LOCATION IS STABILIZED. TAL
- BECH PLANNINS, FABRICATION AND PROCUREVENT OF FOUNDATION ELEMENTS, STRUCTURAL STEEL, BRIDGE MACHINERY, BRIDGE ELECTRICAL, ELECTRIFICATION COMPONENTS, AND ALL OTHER CONSTRUCTION ELEMENTS. IAZ_
- AMTRAK WILL RELOCATE 480V-50HZ POWER TO NORTH SIDE OF TRACKS AT BP 1075. IA3.
- INITIATE TEMPORARY ACCESS FROM OLD SAYBROOK AND FROM OLD LYME AND BEGIN APPROACH IA4
- PERFORM APPROPRIATE MITICATION MEASURES WHICH SHALL INCLUDE BUT NOT BE LIMITED TO THE CONSTRUCTION OF EXCLUSION BARRIERS, TRANSPORTATION OF STATE LISTED PLANT SPECIES, THE INSTALLATION OF FENCING TO PROTECT SHASTING AREAS, THE CONSTRUCTION OF MEASURES TO VITICATE THE LOSS OF RECREATIONAL FISHING, AND INTIAL WETLAND MITIGATION ACTIVITIES TO SERMIT CONSTRUCTION ACCESS. CONSTRUCTION. 145

PH IB: PREPARE TEMPORARY FAGILTES NEEDED DURING CONSTRUCTION

- 181 CONTINUE PHASE IA ACTIVITIES.
- CLOSE FERRY PARK LANDING BOARDWALK TO PUBLIC USE, PERFORM BARGE ACCESS DREDGING ACTIVITIES, AND CONSTRUCT TEMPORARY WORK PLATFORMS. B2.
- NSTALL TEVPORARY FACILITIES FOR THE EXISTING BRIDGE AND RAIL NECESSARY TO ACCOMMODATE CONSTRUCTION OF THE NEW BRIDGE AND RAIL ON THE SOUTH SIDE OF THE EXISTING BRIDGE. THIS INCLUDES BUILTS NOT LIBITED TO TEMPORARY MOVACE BRIDGE BRIDG 183

PH IC: MAJOR CONSTRUCTION (NAVIGATION CHANNEL WIDTH REDUCED)

- CONTINUE PHASE IA AND IB ACTIVITIES AS NEEDED.
- INITIATE CONSTRUCTION ON EAST APPROACH EMBANKMENT AND WEST APPROACH EMBANKMENT CONSTRUCT WEST APPROACH EMBANKMENT ALLOWING FOR ADEQUATE TIME FOR SURCHARSE
- CONSTRUCT FOUNDATIONS FOR BRIDGE WEST AND EAST ABUTMENTS; PIERS 1 TO 6, 8 AND 9; AND RETAINING WALLS. CONSTRUCT ABUTMENT AND PIER SUBSTRUCTURES AND RETAINING WALLS. C3.
- CONSTRUCT PORTION OF WEST SIDE AND EAST SIDE FENDER SYSTEMS. NAVIGATION CHANNEL AT BRIDGE IS REDUCED FROM EMBRING APPROXIMATELY 155-TT TO 129-FT WIDTH. DEMOLISH PORTION OF EXISTING WEST SIDE AND EAST SIDE FANDERS SYSTEMS. 16:4
- CONSTRUCT FOUNDATION AND SUBSTRUCTURE OF BASCULE PIER 7. 105.
- CONSTRUCT BRIDGE APPROACH SPANS SUPERSTRUCTURE AND DECK, EXCEPT APPROACH SPAN 8. TO BE CONSTRUCTED AFTER INSTALLATION OF THE BASCULE SPAN REAR SECTION IN PHASE ICIO. IC6,
- 1C7. CONSTRUCT NEW CONTROL HOUSE
 - INSTALL PREASSEMBLED AND WIRED SIGNAL ENCLOSURES ON THE RIGHT-OF-WAY AND CONSTRUCT CAS RACILITIES ON APPROACHES AND BRIDGE APPROACH SPANS, INSTALL ALL PERMANDIT TROUGH, CAPILIC, CORPUST, OR DUCE BANKS INSESSEARY BESTIVES NEW LOCATIONS. INSTALL ALL TEMPORARY CARLE ROUTING ENVIEWEN THE NEW COOKTION. A AND THE FEMAL ALL TEMPORARY CASES AND EQUIPMENT CONSTRUCTED TO PROVIDE TEMPORARY SIGNAL NO DURING CONSTRUCTION.

- C13:
- CLOSE CHANNEL TO NAVIGATION.
- INSTALL PERMANENT SUBMARINE AND MOUNTED CABLES. IC12.
- IC13. REOPEN CHANNEL TO NAVIGATION.
- COMPLETE APPROACH GRADING AND SUBBALLAST. C14
- CONSTRUCT TRACKWORK, DVERHEAD CATENARY SYSTEMS ON APPROACHES AND BROGE C15.

PH ID: BASCULE RPAN FLOAT-IN (NAVIGATION DURATION SUSPENSION)

- ID1. CLOSE CHANNEL TO NAVIGATION.
- FLOAT-IN FORWARD PORTION OF BASCULE SPAN. 32.
- CONNECT BASCULE FORWARD AND REAR PORTONS, FORWARD AND REAR SPLICING INCLUDES TRUSS GUISSET PLATE CONNECTIONS, FLOOR SYSTEM CONNECTIONS, USPER AND LOWER NATIONAL BROKEN CONNECTIONS, TRACK AND CHIEF MISCELARIOUS ATTACHMENTS.
- RAISE BASCULE SPAN AND SECURE IN OPEN POSITION. ID4
- REOPEN CHANNEL TO NAVIGATION 105

PHOTE: COMPLETE MAJOR CONSTRUCTION WITH EXISTING BROSE STILL IN FULL SERVICE.

- EI. COMPLETE PHASE IC ACTIVITIES AS MEEDED.
- COMPLETE BASSULE SPAN TRUSS ASSEMBLY, INCLUDING TIES, TRACKS, MITER RAIL ASSEMBLIES, AND ELECTRICAL APPURTENANCES AND PERFORM FINAL BALANCING OF E2. MOVABLE SPAN.
- PERFORM INTERIM TESTING AND COMMISSION VOVABLE SPAN FOR FULL OPERABILITY, FINAL TESTING TO BE COMPLETED AFTER EXISTING BRIDGE HEMOVAL AND WITH ALL PERMANENT IE3. FLEMENTS IN PLACE.
- FINALIZE TRACK, RAIL FLECTRIFICATION FOR TRACK 2 AND CAS FACILITIES ON THE NEW BRIDGE FOR SIGNALING ON THE NEW BRIDGE (EXCEPT TIE INS).

PHASE II SUMMARY

PHASE II CONSISTS OF CONSISTECTION OF TRACK, ELECTRIFICATION AND SIGNAL TIE-MS AT THE EAST AND WEST ENDS OF THE PROJECT TO ACTIVATE NEW TRACK 2 FOR BALL SERVICE AT THE END OF THE WORK OF THIS ENTRIES DURING TRACK 2 PET-IN WORKS TRACE, TRACK SERVICE WILL CONTINUE ON TRACK 1,

PHI III TRACK 2 SWITCHOVER, ONE TRACK OPERATION ON TRACK 1

- INITIALE ONE-TRACK SERVICE ON TRACK 1.
- CONSTRUCT NEW TRACK 2 TRACK, ELECTRIFICATION AND ASSOCIATED S&S TIE-INS AT EAST
- OPEN TRACK 2 TO SERVICE (TRACK 1 IN SERVICE ON EXISTING BRIDGE, IRACK 2 IN SERVICE ON NEW BRIDGE).
- INSTALL SAFETY AND SECURITY EQUIPMENT FOR TRACK 2 AND AT THE OPERATOR'S SHANTY (OR OTHER PROPOSED LOCATION FOR THIS EQUIPMENT).
- REMOVE OLD LOCATION B AND SIGNAL 2W TO ALLOW THE BUILDOUT OF THE NEW TRACK "...
- FINALIZE ELECTRIFICATION FOR TRACK 1 (EXSEPT TIE INS).

PHASE III CONSTS OF CONSTRUCTION OF TRACK, ELECTRIFICATION AND SIGNAL TIE-INS AT THE FAST AND WEST ENDS OF THE PROJECT TO ACTIVATE NEW TRACK I FOR RAIL SERVICE AT THE ENDS OF THE WORK OF THIS PHASE, DIRECT TRACK I THE-IN WORK, SINCLE TRACK SERVICE WELL CONTINUE ON TRACK OF

PH III: TRACK 1 SWITCHOVER, ONE TRACK OPERATION ON TRACK 2

- mer. INITIATE ONE-TRACK SERVICE ON TRACK 2.
- CONSTRUCT NEW TRACK I TRACK, ELECTRIFICATION AND ASSOCIATED C&S TE-INS AT EAST AND WEST ENDS OF PROJECT,
- OPEN TRACK I TO SERVICE (BOTH TRACKS IN SERVICE OVER NEW BRIDGE). 111-3.
- INSTAL_ SAFETY AND SECURITY EQUIPMENT FOR TRACK 1 W-4.

PHASE IV SUMMARY

IVB5.

W87

MBB.

CONSTRUCT TRUNNION TOWERS AND REAR PORTION OF BASCULE SPAN WITH
COUNTERWEIGHTS, COMPLETE CONSTRUCTION OF APPROACH SPANS, CONSTRUCT TEMPORARY
SHORING TO SUPPORT REAR SECTION AND ALLOW FOR INSTALLATION OF COUNTERWEIGHT
MATERIAL.

BEGIN BROSE MACHINERY AND ELECTRICAL SYSTEMS INSTALLATIONS,

THE PROBLEM STATEMENT OF THE PRO

PH IVA: FLOAT-OUT EXISTING VOVABLE SPAN (VAVIGATION SHORT DURATION SUSPENSION)

- RAISE EXISTING BASCULE SPAN TO FULLY OPEN POSITION AND INSTALL TEMPORARY SUPPORTS.
- DEMOLISH EXISTING COUNTERWEIGHT. IVAZ.
- WA3. CLOSE CHANNEL TO NAVIGATION.
- LOWER EXISTING PASCULE SPAN TO CLOSED POSITION. WAZ
- MAS. PREPARE AND FLOAT-OUT EXISTING BASCULE SPAN.
- IVA6: OPEN CHANNEL TO NAVICATION.

PH IVB: DEMOLISH EXISTING BRIDGE AND FACILITIES.

- DEMOLISH EXISTING BRIDGE APPROACH SPANS.
- DEMOUSH EXISTING BRIDGE SUBSTRUCTURES AND FOUNDATIONS DESIGNATED FOR N32.
- COMPLETE FENDER SYSTEM CONSTRUCTION (NAVIGATION CHANNEL WIDTH 150-FT). IVB5
- IVB4. REMOVE ALL REMAINING TRACK AND RAIL SYSTEMS FACILITIES NO LONGER IN
 - INSTAL_ LITHITY STRUCTURES ON GRADE AND CONNECT PERMANENT ELECTRICAL SERVICE FOR THE NEW BRIDGE,
- WRE PERFORM FINAL TESTING OF THE NEW WOVABLE SPAN:
 - CONSTRUCT NEW FERRY PARK LANDING BOARDWALK AND OPEN TO PUBLIC
 - REMOVE TEMPORARY CONSTRUCTION FACILITIES AND TEMPORARY ACCESS AND RESTORE SITE IN ACCORDANCE WITH THE REQUIREMENTS OF THE PROJECT ENVIRONMEN AL PERMITS.

ENVIRONMENTAL PERMIT PLANS PLAN DATE: MAY 2, 2023

REPLACEMENT OF MB 106.89 OVER CONNECTICUT RIVER

SUGGESTED CONSTRUCTION SEQUENCE med CJR Drawn JO Checked SJT Date 5/2/2023

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102.

CS.

CONSTRUCTION STAGING AND ENVIRONMENTAL SAFEGUARDS NOTES:

IA AND IB: INITIATE TEMPORARY ACCESS FROM OLD SAYBROOK AND FROM OLD LYME

I. MOBILIZE, CLEAR SITE, AND BEGIN SETTING UP TEMPORARY ENVIRONMENTAL AND SEGURITY

2, STATE-DUSTED PLANT SPECIES WITH'N IMPACT AREAS SHALL BE RELOCATED PRIOR TO ANY 2. STARE-LUSTED PLANT SPECIES WITH'S IMPACT AREAS SHALL BE RELOCATED PRIOR TO ANY DISTURBANCE BY THEIR VICINITY AND REASONAINTED AT AN OFF-SITE JOCATION, SEE TIDAL WETCANDS MITIGATION PLAN REPORT FOR ADDITIONAL INFORMATION ON TRANSPLANTING. SINITIATE OLD SAYPROOK TEMPORARY ACCESS: ACON VENCULAR SEE ACCESS FROM ROUTE 1 (BOSTON POST ROAD) THROUGH EASEMENTS IN QUID SAYPROOK TO ANTRAK RIGHT OF WAY. BUT SAYBROOK TO ANTRAK RIGHT OF WAY. BUT SAYBROOK TO ANTRAK RIGHT OF WAY.

IN OLD SAYRROOK TO ANTRAK RIGHT OF WAY.

B. INSTALL TEMPORARY ENDIFORMENTIAL AND SECURITY SAFEOLARDS IN ADVANCE OF SOCIENTAL PORTIONS OF CONSTRUCTION.
CONSTRUCT TEMPORARY TETANING WALL SYSTEMS AND TEMPORARY ACCESS PATH STARTING AT WEST AND WORKING EASTWARD UTILIZING PATH AS CONSTRUCTION STAGING FOR AREA PROPRIED OF PATH AS CONSTRUCTION STAGING FOR AREA PROPRIED OF PATH AS CONSTRUCTION STAGING FOR AREA PATH AS CONSTRUCTION FOR A PATH AS CONSTRUCTION AND ASSETT OF PROPRIED FOR AREA PATH AS CONSTRUCTION AND ASSETT OF PROPRIED FOR AREA PATH AS CONSTRUCTION AND ASSETT OF PROPRIED FOR AREA PATH AS CONSTRUCTION AND ASSETT OF PROPRIED FOR AREA PATH AS CONSTRUCTION AND ASSETT OF PROPRIED FOR AREA PATH AS CONSTRUCTION AND ASSETT OF PROPRIED FOR AREA PATH AS CONSTRUCTION AND ASSETT OF PROPRIED FOR A PATH AS CONSTRUCTION AND ASSETT OF PROPRIED FOR A PATH AS CONSTRUCTION AND ASSETT OF PROPRIED FOR A PATH AS CONSTRUCTION AND ASSETT OF PROPRIED FOR A PATH AS CONSTRUCTION AND ASSETT OF PROPRIED FOR A PATH AS CONSTRUCTION AND ASSETT OF PATH AS CONSTRUCTION AS

J. TEMPORARY TRESTLE WORK PLATFORM UNDER EXISTING BRIDGE TO BE PROVIDED SUCH THAT A MINIMUM OF 16' OF VERTICAL CLEARANCE IS AVAILABLE FOR SHIRLDHART TRAFFIC ON THE WORK PLATFORM, THIS VERTICAL CLEARANCE MAY NOT BE ASSLET OF BE ANNIANCE ON CORE THE PROPOSED BRODGE SPANS ARE INSTALLED WITH A LOWER DOWN GOADS SEARING. DICE HE PROPOSED SHOPE SHARM ARE INSTALLED WHITA LEWER LOW G-OND SLEVANDS AND CONTRACTOR'S SCOLECKION SHOULD TAKE THIS INTO ACCOUNT FOR WHICH TIESS SHARE INSTALLED COMPARED TO WHEN VEH COLLAR ACCESS IS REQUIRED TO THE SOUTH PORTION OF THE HEMPORARY TREET, WORK PLATFORM, SOR THE PROPOSED SHAMS THE CONTRACTOR MAY NEED TO ADJUST CONSTRUCTION SECUENCING, LIMIT FOURPHINE HEAD TO ADJUST CONSTRUCTION SECUENCING, LIMIT FOURPHINE HEAD TO ADJUST ROADWAY LIFE AND AND THE LEVATION, INTITLALLY SET THE NEW SPAN STEEL TEMPORARILY HIGHER, OR OTHERWISE ALLOW FOR CONSTRUCTION COMPMENT ACCESSES.

4. NITATE OLD LYME TEMPORARY ACCESS: A. CONSTRUCT 17 SHORE ROUD CULVERT AND INSTALL MITIGATION MEASURES AT 17 SHORE ROAD AND THE JUST ACRE PARCEL, SEE MITIGATION PLANS FOR ADDITIONAL INFORMATION

REDARD AND THE SIZE ACRE PARKEL, SEE MITERATION PLANS FOR ADDITIONAL INFORMATION RECARDING SEQUENCES, BEGIN VEHICULAR SITE ACCESS FROM ROLITE 156 (SHORE ROAD) THROUGH EASEMENT IN OLD LYMIC TO AMPTER RIGHT OF WAY, ANY WORK FOURIED TO CONSTRUCT AN ACCESS ROAD OR LAPODINA AREA WILL BE DONE WITH TEMPORARY ENVIRONMENTAL SAFEGUARDS IN

PLACE

CHASTALL TEMPORARY ENVIRONMENTAL AND SECURITY SAFECLARDS IN ADVANCE OF
SEQUENTIAL PORTIONS OF CONSTRUCTION.

SEQUENTIAL PORTIONS OF CONSTRUCTION.

DEMONSTRUCT TEMPORARY FERTAINEN, WALL SYSTEMS AND TEMPORARY ACCESS PATH STARTING
AT SAST AND WORKING WESTWARD UTILEY AS PATH AS CONSTRUCTION STACING, FOR NEXT
PORTION OF PATH, NO DISRIPPTION IT O ADJACENT TRACK USAGE.

EINSTALL TEMPORARY EASTERN ABUTMENT FOR TEMPORARY TRESTLE BRIDGE ACROSS THE
LIEUTENANT RIVER FROM PREVIOUSLY CONSTRUCTED TEMPORARY ACCESS PATH.

I INSTALL TEMPORARY MESTERN ABUTMENT AND ANY INCESSARY TEMPORARY PILLINS FOR
TEMPORARY TESTLE BRIDGE DISRIPTION DUE TO LOCK OF ACCESS FROM MEST AND
REQUIRE SHORT TRACK SERVICE DISRIPTION DUE TO LOCK OF ACCESS FROM MEST AND
SMALL BARGE ACCESS FROM LILLITIANT RIVER TO BE COORDINATED WITH ANTRRAY,
NAVIGATION OF JEUTEMANT RIVER TO DE COORDINATED WITH ANTRRAY.

NAVIGATION OF JEUTEMANT RIVER TO DE COORDINATED WITH ANTRRAY,
NAVIGATION OF EXISTING LIEUTENANT RIVER FOR THE PROPERTY TRACK SHORT THE PROPERTY TRACK SERVICE DISRIPTION TO BE COORDINATED WITH ANTRRAY.

CHARGE TO THE PROPERTY TRESTLE BRIDGE OVER LIEUTENANT RIVER (MAY REDUITE SHORT TRACK

SERVICE STRUPTION TO BE COORDINATED WITH ANTRRAY).

SINSTALL IS METOWARY TRESTLE UNDOG EVER LECTEMENT THAT (WAS A MOTTEMPORARY SERVICE) SERVICE DISCUSSION OF THE MOTOR WITH A MATTEMPORARY RETAINING WALLS AND TEMPORARY ACCESS PATH FROM EAST AND WORKING WESTWARD UTILIZING PATH AS CONSTRUCTION STAGING FOR NEXT PORTION OF PATH, NO DISCRIPTION TO ADJUGENT THANK USAGE NISTALL YOUR PROPERTY OF THE PRINCIPLO OF THE PROPERTY OF THE PROPERT

J. CONSTRUCT EAGLE LANDING BOARDWALK IN ADVANCE OF DECOMISSIONING FERRY LANDING

BOARDWALK:

K.CLOSE FERRY PARK LANDING BOARDWALK TO PUBLIC USE PRIOR TO DREDO NO ACTIVITY
AND INSTALLATION OF TEMPORARY TRESTLE WORK PLATFORM ON OLD LYME SHORE, MSTALL
TURBIDITY CURTAINS AROUND AREA OF BOARDWALK, REMOVE PORTIONS OF FERRY PARK
LANDING BOARDWALK WHICH WILL CONTLICT WITH DEBEROIS ACTIVITY AND TEMPORARY

TRESTLE WORK PLATFORMS.

TRESILE WORK PLATFORMS.

INSTALL TURNING TRAINS AROUND AREA OF DRESGING FOR BARGE ACCESS, PERFORM DREDGING ACTIVITY ON THE DAYS BANK OF THE CONNECTICUT RIVER FROM BARGE WORK OF THE SHORE MAININING TURNING ACQUITY AREAS OF DISTURBANCE.

TOWARDS THE SHORE MAINTAINING TURBIDITY CURTAIN AROUND AREAS OF DISTURBANCE. DREDGED WATERIAL TO BE REMOVED FROM SITE VIA BARGE.

VUNSTALL TURBIDITY CURTAINS AROUND AREA OF TEMPORARY TRESTLE WORK PLATFORM.

NINSTALL TURBIDITY CURTAINS AROUND AREA OF TEMPORARY TRESTLE WORK PLATFORM. DISTALLATION TO BE FROM A COMBINATION OF ACCESS FROM THE TEMPORARY THESTLE WORK PLATFORM COMPILETE AS WELL AS FROM BARGE LOCATED WITHIN RIVER WHERE DEPTH ACCESS ALLOWS.

OTEMPORARY TRESTLE WORK PLATFORM UNDER EXISTING PRIDGE TO BE PROVIDED SIJCH THE A MINVUM OF 14° OF VERTICAL CLEARANCE IS AVAILABLE FOR VEHICLE TRAFFIC ON THE WORK PLATFORM. CLEARANCE MAY NOT BE ABLE TO BE VANIANCE ONCE THE PROPOSED BRIDGE SPANS ARE INSTALLED WITH A LOWER LOW CHORD ELEVATION. ONCE THE PROPOSED BRIDGE SPANS ARE INSTALLED WITH A LOWER LOW BROWN FOR AND CONTRACTOR'S SEQUENCING SHOULD TAKE THIS INTO ACCOUNT FOR MY-BY THESE SPANS ARE INSTALLED COMPARED TO WHEN VEHICULAR ACCESS, IS REQUIRED TO THE SOLTH-PROPOSED STATEMENT OF THE PROPOSED STATEMENT OF THE

P.CONSTRUCTION ACCESS TO TEVPORARILY IMPACTED AREA TO SOUTH OF EMBANKMENT TO THE EAST OF THE TEMPORARY TRESTLE WORK PLATFORM MAY EITHER BE A CO DE THE TEMPORARY TRESTLE WORK PLATFORMS OF TEMPORARY WOODEN MATS.

PHASE IC: INITIATE CONSTRUCTION ON EAST APPROACH EMBANKMENT AND WEST APPROACH EMBANKMENT

3, BEGIN APPROACH EMBANKVENT CONSTRUCTION IN OLD SAYBROOK AND OLD LYME. (SEE WEST

EMBARKURN CONSTRUCTION NOTES, SHEET SEC-02)

AMAINTAIN CONTINUED TEX-GRAPY ENVIRONMENTAL AND SECURITY SAFEGUARDS IN ADVANCE
OF SECURITAL PORTIONS OF CONSTRUCTION.

ENSTALL TEXPORARY EARTH RETAINING SYSTEM AT TOE OF PROPOSED RIPRAP PROB TO ANY EXCAVATION ACTIVITIES.

C.FOR BOTH APPROACHES, PERFORM EXCAVATION ACTIVITIES FROM TEMPORARY TRESILE WORK DENCAMEND APPROVINCES, PREVIOUSLY CONSTRUCTED APPROACH SUSANIKMENT AREAS.

DENCAMED MATERIAL WHICH IS ANTIOPATED AS UNSUITABLE FOR REUSE TO BE REMOVED FROM SITE EITHER VIA VEHICULAR ACCESS ON THE TEMPORARY ACCESS PATHS OR VA BARGE FROM THE TEMPORARY IRESTLE WORK PLATFORMS.

SURCHARGED PORTIONS OF THE WEST EMBANKMENT SHALL NOT DISRUPT THE USE OF EXISTING TRACK

F. REMOVE PORTIONS OF THE TEMPORARY TRESTLE WORK PLATFORMS AS REQUIRED FOR

CONTINUED CONSTRUCTION OF THE EMBANKVENTS.

GERCHATED MATERIAL FROM THE EXISTING EMBANKVENTS TO PROVIDE BENCHING BETWEEN THE EXISTING EMBANKWENT WILL BE REUSED ONSITE.

H.PEMOVE TEMPORARY TRACK CROSSING PRIOR TO INITIATING PHASE IL.

PHASE IC: TEMPORARY ENVIRONMENTAL SAFEGUARDS

1. IMSTALL COFFERDAMS FOR BRIDGE WEST AND EAST ABLITVENTS; PIER 9: AND RETAINING WALLS.
2. INSTALL STEFL CASING WITH VIRRACORY HAUVERS AND DRILLED ISHAETS WITH CONSERTE CAPS
FOR PIERS 1 TO 8 BEHIND TURBSING WITH OURTAINS.
3. DREDGED WATERIAL FROM THE PIERS WILL BE REMOVED FROM SITE VIA BARGE AND DISPOSED
OF AT AN APPROVED GIFT-SITE LOCATION.
4. CONSTRUCT AND PROVED GIFT-SITE LOCATION.
CONTROLLING HAND FARTH RETAINING SYSTEMS, OR TURBLING WALLS ALL BEHIND
CONTROLLING HAND FARTH RETAINING SYSTEMS, OR TURBLING CURTAINS AS PROVIDELY

5, CONTINUE TO RELOCATE TURBOITY CURTAINS AROUND AND/OR IMMEDIATELY ADJACENT TO THE WORK AREA DURING EACH CONSTRUCTION ACTIVITY EXPECTED TO PRODUCE DEBRES AND/OR SCHOOLS OF THE PRODUCE DEBRES AND/OR WILL BE DEPOYED PRIOR TO DRIVING ANY SHEET PILE OR SHAFT CASHIOS OR PERFORMING ANY DERBOLING/SECAVATING WORK, DUE TO STRONG TIDES AND CURRENTS, THE FARRIC FOR THE CURTAINS TO BE COMPOSED OF A HEAVY WOVEN PERVIOUS MATERIAL TO CRITATE A FLOW-THROUGH MEDIA, WHICH WILL REDUCE THE PRESSURE ON THE CHITAINS AND KEEP THEM IN THE SAME RELATIVE SHAPE AND LOCATION AT ALL TIDES AND RIVER FLOWING, DEBRIS NETS, TURBIDITY CURTAINS AND STRONG FLOATING BOOMS WILL BE PLACED AS NECESSARY, TURBIDITY CURTAINS AND STRONG FLOATING BOOMS WILL BE PLACED AS NECESSARY, TURBIDITY CURTAINS AND STRONG FLOATING BOOMS WILL BE PLACED AS NECESSARY, TURBIDITY CURTAINS WILL BE ESTABLISHED, AND MONITORS DEPLOYED TO MEASURE LUYELS DURING CONSTRUCTIONS OF THE PROVINCE AND STRONG CONSTRUCTIONS.

WILL BE ESTABLISHED, AND MONITORS DEPLOYED TO MEASURE LEVELS DURING CONSTRUCTION.

5. CONSTRUCT EAST SIDE FEMORE SYSTEM AND DEMOLISH EXISTING EAST SIDE FEMORE SYSTEM BEHING TURBIONY CUPTAINS.

7. CLOSE CHANNEL TO MAYICATION, SEE SC-05 FOR SUBMARINE CABLE SUGSESTED CONSTRUCTION PHASING.

PHASE IVB: DEMOLITION ENVIRONMENTAL SAFEGUARDS

1. INSTALL TEMPORARY ENVIRONMENTAL SATIGUARDS INCLUDING TEMPORARY TURBIDITY CURTAINS AND DEBRIS NETS FOR DEMOLITION OF APPROACH SPANS AND DEMOLISH EXISTING BRIDGE APPROACH SPANS

2. INSTALL COFFERDMS AROUND EACH OF THE EXISTING SRIDGE SUBSTRUCTURES AND FOUNDATIONS DESIGNATED FOR REMOVAL.

A, DEMOLISH EXISTING BRIDGE SUBSTRUCTURES AND FOUNDATIONS DESIGNATED FOR REVOVAL.

EXISTING STONE PIERS WILL BE DEMOLISHED BEHIND COFFERDAMS. THE EXISTING TWEET PIES.

COMPARISON THE PIER FOUNDATIONS AND THE FREDER SYSTEM WILL BE ETHER PULLED OR OUT OF TWO (2) FEET BELOW THE MUSEUME, ALL BRIDGE COMPONENTS AND DESIRS WILL BE REVOVED OF BRIDGE OF TORSEGS WILL BE MUSEUMED AT THE LOCATION OF THE PIER REVOVALS WITHIN THE CONNECTICUT RIVER. NO NEW MATERIAL SHALL BE PLACED IN THESE COGATIONS, THE EXISTING MATERIAL FROM AROUND THE PIERS SHALL BE REDISTRIBUTED NATURALLY.

PHASE IVBS: REMOVE TEMPORARY CONSTRUCTION ACCESS AND RESTORE SITE

I. REMOVE TEMPORARY TRESTLE WORK PLATFORMS INLCUDING ALL TEMPORARY PILES FROM EACH

I. REMOVE TEMPORARY TRESILE WORK PLAFFORMS INLCUDING ALL TEMPORARY PILES FROM EAG-BRUTHERT AS THEY ARE TO LINNIES INCESSARY.

2. CONSTRUCT NEW FERRY PARK LANDING BEARDWALK ARD CIDEEP PARKING LOT PERMANENT ADA PARK YG SPACES, SIDEWALKS, AND TREE WALKWAYS AND OPEN TO PUBLIC.

5. BEMOVE TEMPORARY ACCESS PATH FILL TEMPORARY RETAINING WALL SYSTEMS, AND TEMPORARY TRESILE BRIDGE WALLUMING TEMPORARY ABILITYATIS AND PHINDS AT UPLIFIEMANT RIVER WA SINILAR REVERSE SEQUENTIAL CROER AS INSTALLED (MAY REQUIRE SHORT TRACK SERVICE

SMAILAR REVENSE SEQUENTIAL CRIDER AS INSTALLED (MAY REQUIRE SHOW) HAVE SERVICE DISCUPTION TO BE COORDINATED WITH AMTRAY).

4. BELIJIN AREA DISTURBED BY TEMPORAPY ACCESS PAIN TO PRE-EXISTING GRADES AND SUPPLANDS, SEE TIDAL WELLANDS MITCHATON PLAN REPORT FOR ADDITIONAL INFORMATION ON SEE RESTORATION OF TEMPORARILY DISTURBED VIGOTAVED WELLAND AREAS.

5. REVIOUR TEMPORARY CONSTRUCTION FACILITIES AND RESTORE SITE.

6. TEMPORAPY ENVIRONMENTAL SAFEGUARDS TO BE MAINTAINED IN APPLICABLE AREAS UNTIL STRENLIGHTON OF AREA AND THEN REVOYED IN TAX.

CONTRACTOR IS RESPONSIBLE FOR ANY BORNOS NECESSARY TO FACILITATE THE DESIGN OF THE TEMPORARY RETAINING SYSTEMS FOR THE TEMPORARY ACCESS PATHS.

2. GONTRACTOR IS RESPONSIBLE FOR ANY BORINGS NECESSARY TO FACILITATE THE DESIGN OF THE TEMPORARY WORK PLATFORMS.

3. CONTRACTOR IS RESPONSIBLE FOR ANY BORINGS NECESSARY TO FACILITATE THE DESIGN OF THE TEMPORARY TRESTLE BRIDGE FOR THE OLD LYME TEMPORARY ACCESS PATH.

SEE SHEET PH-C1 FOR SUGGESTED CONSTRUCTION SEQUENCE.

ENVIRONMENTAL PERMIT PLANS PLAN DATE: MAY 2, 2023

Office of Chief Engineer STRUCTURES National Rainoad Passenger Corporation 20th Street Station, Philadelphia, Pennsylvania 19104



HARDESTY & HANOVER, LLC HARDESTY & HARDESTY & BARDESTY & 115]) 1780 Market St. Suite 1050 Philadelphia, PA 19103

REPLACEMENT OF MB 106,89 OVER CONNECTICUT RIVER STAGING PLAN - CIVIL NOTES CB Brown CB/VD Checked KV Date 5/2/2023

wet No. 79 OF 140 PH-02

ENVIRONMENTAL COMPLIANCE NOTES

- ALL ON-SITE CONSTRUCTION STATE WILL ATTEND TRANSING BY A DUALIFIED ENVIRONMENTAL SCIENTIST AND RECENT A COPY OF FINAL WILDLIFE PROTECTION PLAN PRIOR TO BECOMING WORKS ON SITE.
- A QUALIFIED ENVIRONMENTAL SCIENTIST WILL BE PRESENT WHEN WORK IS BEING CONDUCTED.
- 3. NOISE-GENERALING CONSTRUCTION ACTIVITIES MUST BEGIN PRIOR TO MAY 1 AND CONTINUE WITHOUT PROLONGED INTERRUPTION THROUGH AUGUST 31. TA SIGNIFICANT NOISE-GENERATING CONSTRUCTION ACTIVITY DOES NOT START PRIOR TO MAY 1. THEN A TIME OF YEAR RESTRICTION WILL APPLY, AND WORK MAY NOT BEGIN MUTTIL SEPTEMBER 1 WITHOUT THE APPROVAL OF CIDEEP TO PROJECT LEAST BITTERN AND SALIMARSH SHARE-TAILED SARRANGE.
- IF BALD EAGLE NESTING ACTIVITY IS OBSERVED WITHIN GOOFT FROM CONSTRUCTION ACTIVITY, ALL CONSTRUCTION MUST STOP UNTIL NESTING OR ROOSTING ACTIVITY HAS COASED.
- 5. CONSTRUCTION WITHIN TIDAL CREEKS OF SIMILAR CHANNELIZED AQUATIC HASTA" IS PROCHISTED BETWEEN NOVEMBER " — MARCH 31 TO PROTECT OVER-WAITERING STATE-LISTED TURTLES.
- CONSTRUCTION IN AREAS THAT FLOOD DAILY WILL BE CONDUCTED DURING LOW TIDE TO THE GREATEST EXTENT PRACTICAL FROM APRIL 1 — OCTOBER 31.
- 7. WORK LIMITS MIST BE SUCIOSED BY A WILDLIFE BARRER SYSTEM BETWEEN APPLIE "OFCIDER BY I.E.G., SILL FRANCE OR ELEMATED WORK SUPFACES) TO PRIVENT ENTRY BY STATE-LISTED TURTLES, THE ISOLATED WORK LIMITS ARE TO BE INSPECTED DATE OF TRAINED CONSTRUCTION STATE-DISTRIBUTION MAY NOT THE STATE OF WORK! TURLES ARE TO BE RELOCATED IN DISERVED BY WORK LIMITS AND EXPORTED TO THE ON-SILL ENVIRONMENTAL MONITOR AND ANTAR REPORTED TO THE ON-SILL ENVIRONMENTAL MONITOR AND ANTAR REPORTED TO THE ON-SILL ENVIRONMENTAL MONITOR AND ANTAR REPORTED THE DEPOLEMENTS IN THE WILDLIFE BARRIER ARE TO BE PROMPTLY REPAIRED.
- CONSTRUCTION AT TWO SANDY BEACHES AND ADJACENT DREDGING/EXCAVATION WILL BE INTIMATED PRIOR TO JUNE 1 OR BEACHES WILL BE COVERED WITH DETERRINT FROM JUNE 1 - JULY 15.
- 9. SPEED LIVIT ALONG ACCESS ROADS IS NOT TO EXCEED 15 MPH.
- 10, REFLELING OR HANDLING OTHER BIG-TOXIC LIQUIDS IS PROHIBITED IN THE VICINITY OF LOW MARSH, RIVERBANKS, TIGAL CREEKS, OR DITCHES.
- 11. MACTIVE OSPREY NESTS WAY BE REMOVED FROM SEPTEMBER 1 MARCH 1; CIDEEP IS TO BE MODIFIED PRIOR TO REMOVING ANY OSPREY NEST.
- 12. CSPREY NESTING MATERIALS ALONG THE SRIDGE W.L. BE REMOVED TO DISCOURAGE NESTING DURING THE WONTH OF MARCH.
- 13. TREE CLEARING IS PROHIBITED FROM JUNE 1 JULY 31 TO PROTECT NORTHERN LONG-EARED BATS.
- 14. APPROPRIATE SOIL ERCSION, SEDIMENT, AND TURBIDITY CONTROLS SHALL BE USED AND MAINTAINED DURING CONSTRUCTION, AND AREAS CAPABLE OF PRODUCING ORBETT THAM MININGAL TURBIDITY OR SEDIMENTATION WILL BE DONE CURING PERIODS OF LOW- OR NO-FLOW TO PROTECT FISHERIES PESOURCES.
- 15. WORK THAT PRODUCES GREATER THAN MINIMAL TURBIDITY OR SEDIMENTATION (DONE OUTSIDE OF TURBIDITY CURTAINS OR COFFERDAMS) IS PROPRIED TOWN FEBRUARY 1 — JUNE 30, 10 PROTECT FISHERIES
- 16, TO REDUCE THE NOISE IMPACTS FROM DRIVING SHEET PILE AND SHAFT CASINGS, ONLY VIBRATORY HAMMERS SHOULD BE USED DURING THE DIADROMOUS FISH MIGRATORY PERIOD FROM APRIL 1 JUNE 30, NOT LIGHTS
- 17. CONSTRUCTION OR DEMOLT ON OF PIERS SHOULD BE LIVITED TO BITHER THE WESTERN-VOST "THREE PIERS (PIERS \$ 1, 2, AMD 3) OR EASTERNMOND. THREE PIERS (PIERS \$ 7, 8, 9) DURING THE DUBROWOUS FISH SHRING MIGRATION PIERIOD FROM APRIL 1 JUNE 30, AT NO TIME DURING THIS PERIOD SHOULD IN-WATER CONSTRUCTION OR DEMOLITION COCUR IN THE MIDDLE OF THE RIVER OR SHMULTANEOUSLY AT MORE THAN THEE PIERS.
- 18. BURING THE SPRING MIGRATION PERIOD FROM APRIL 1 JUNE 30, ART-FICIAL LICHTING OVER THE WATER SHALL BE LIMITED TO NAVIGATION LICHTS AND ANY LICHTING TYPICALLY REQUIRED FOR THE OPERATION OF THE BRIDGE.

- TIMEER PILES AND STONE PIERS SHALL BE REMOVED FROM INSIDE COFFERDAMS, BELOW THE MUDLINE. PULLING AND CUTTING OF TIMBER PILES SHALL BE PROHIBITED FROM FEBRUARY 1 - JUNE 30.
- 20. C MINIMIZE CONSTRUCTION RELATED TURBIDITY, "ULL DEPTH TURBIDITY CUSTAINS SHALL BE DEPLOYED PRIOR TO DRIVING ANY SHEET PLE DR SHAFT CASSUSS, DUE TO STRIGHS THIS AND CURRENTS THE FARRIG FOR THE CUSTAINS SHOULD BE COMPOSED OF A HEAVY WOVEN PERVIOUS MATERIA. TO CREATE A FLOW-THISOLOGH MEDIUM, WHICH WILL REDUCE THE PRESSURE ON THE CURTAINS AND RELP THEM IN THE SAME RELATES SHAPE AND ICCURRENT SHAPE AND ICCURRENT SHAPE.
- 2". DREDGING AND EXCAVATION OF BARGE DOCKING AREAS SHALL BE PROHIBITED FROM FEBRUARY 1 JUNE 30.
- 22, HOE RAMS ARE PROHIBITED BETWEEN APRIL 1 JUNE 30.
- 23. TO PREVENT DAMAGE TO BENTHIC AQUATIC ORGANISMS, ALL BARGE MOVEMENTS SHALL TAKE PLACE DURING CONDITIONS THAT WINIMIZE OR DO NOT CREATE FROME BOTTOM DISTORBANCE, WORK DOWE FROM BARGES SHOULD ONLY DOCUM WHEN SUFFICIENT TIDE TO PREVENT GROUNDING.
- 24. LOUG CONSTRUCTION ACTIVITIES INCLUDING DRILLING PILES AND DRIVING SHEET PILE OR SHAFT CASINGS (INCLUDING VISRATORY VEANS) SHALL BE PROBIBED FROM SUNSET TO SUNRISE DURING THE COVVERCIAL SHAD FISHING SEASON FROM APRIL 1 JUNE 15.
- 25. AMTRAK AND THE CONTRACTOR WIL, MINIMIZE INTERFERENCE WITH SHAD FISHERY ACTIVITY, COORDINATE WORK EQUIPMENT LOCATIONS AND TIMING WITH LOCAL FISHERIEN.
- 25. THE INSTALLATION AND REMOVAL OF THE TEMPORARY TRESTLE BRIDGE CROSSING LEUTEMANT RIVER SHALL BE PROHIBITED FROM MARCH 1 JUNE 1, INCLUSIVE.
- 27. THE TEMPORARY TRESTLE BRIDGE CROSSING LIEUTENANT RIVER SHALL ALLOW PASSAGE OF RECREATIONAL BOA'S. THE CONTRACTOR SHALL COORD WATER WITH A THIN ARRIVE TO NOTIFY OTDEP AND THE PUBLIC OF CONSTRUCTION ACTIVITIES AFFECTING THE WATERWAY INCLUDING ADVANCED NOTICE OF ANY NAWCATTON CLOSURES.
- 28. SUBMARINE CABLE INSTALLATION AND REMOVAL SHALL BE DONE WITHIN TURBULTY CURTAKES AND WILL BE PROHIBITED FROM FEBRUARY 1 JUNE TO THE TRANSPORT OF THE PROHIBITED FROM FEBRUARY 1 JUNE TO THE PROHIBITED FROM FEBRUARY 1
- 29. WORK TRESTLE AND COFFERDAM CONSTRUCTION WILL BE DONE WITHIN TURBUSTY CURTA'NS AND WILL BE PROHIBITED FROM FEBRUARY 1 JUNE 50.
- PULLING OR CUTTING PILES (INCLUDING TEXPORARY WORK TRESTLE PILES AND TURBIDITY CURRAN SUPPORT PLES) WILL BE PROHIBITED FROM FERRILARY 1 – JUNE 30.

ENVIRONMENTAL PERMIT PLANS PLAN DATE: MAY 2, 2023

Date by Date b

Office of Chief Engineer
STRUCTURES
National Railroad Passenger Corporation



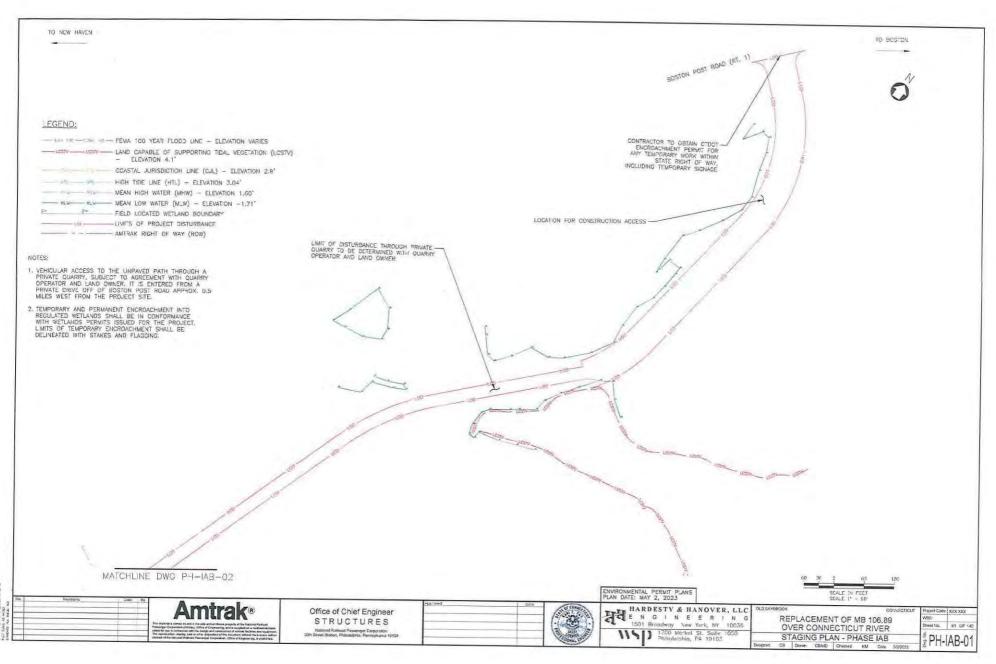
HARDESTY & HANOVER, LLC E N G I N E E R I N G 1501 Broodway New York, NY 10036

REPLACEMENT OF MB 106.89
OVER CONNECTICUT RIVER
ENVIRONMENTAL COMPLIANCE NOTES

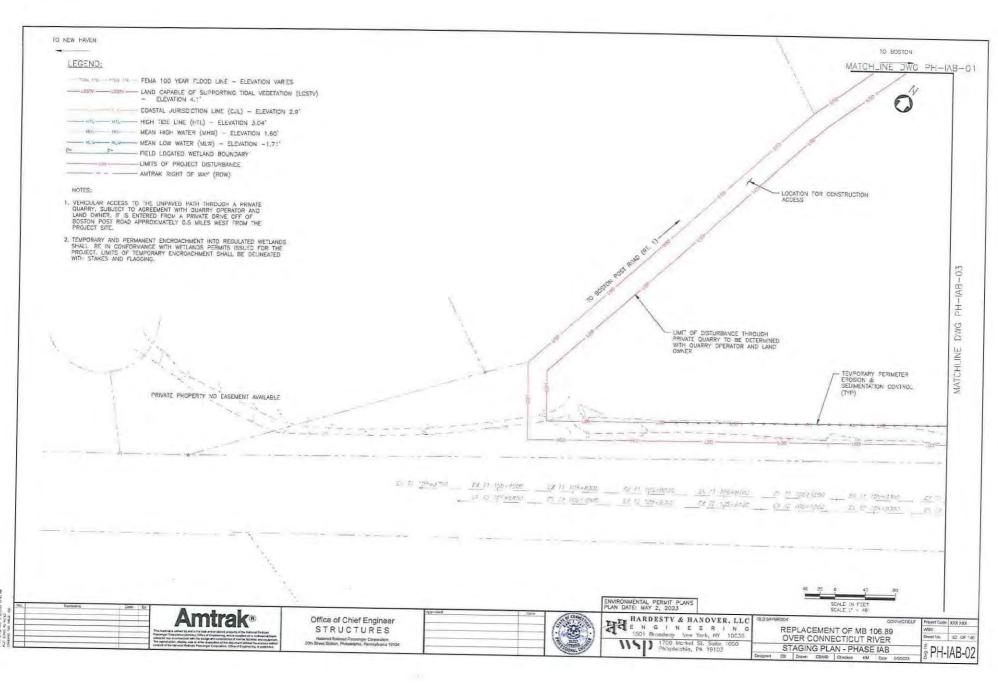
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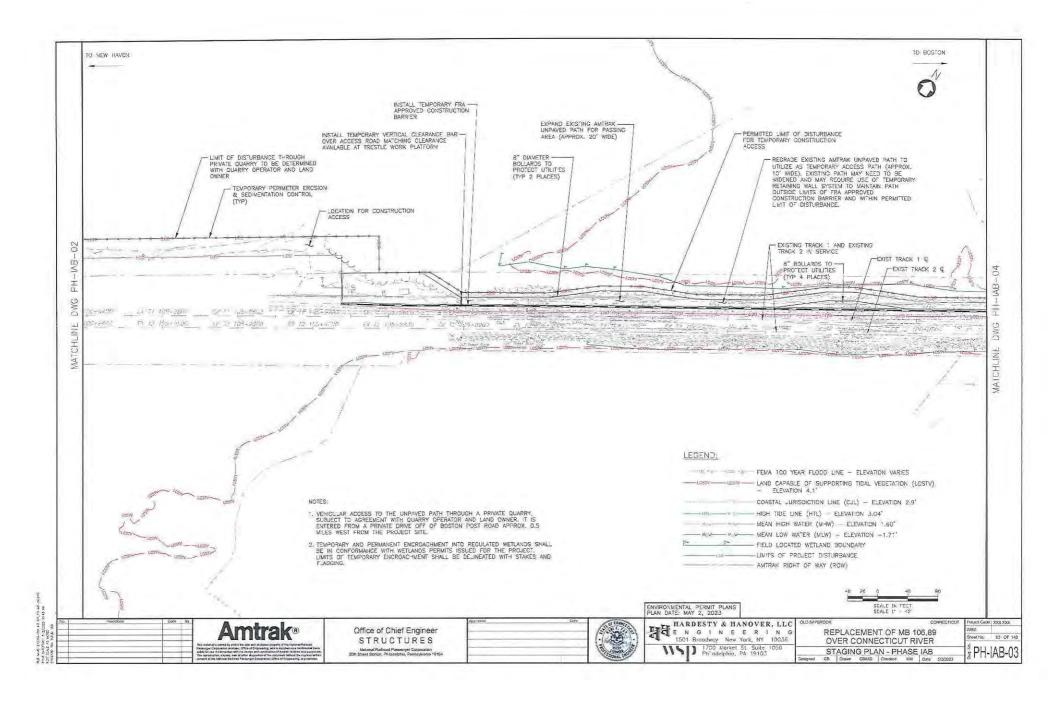
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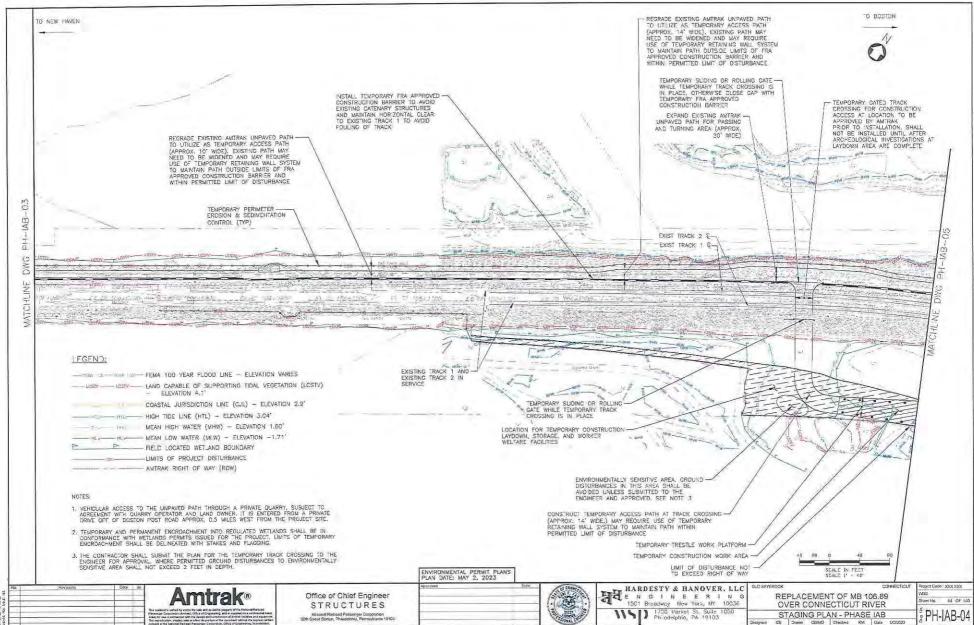


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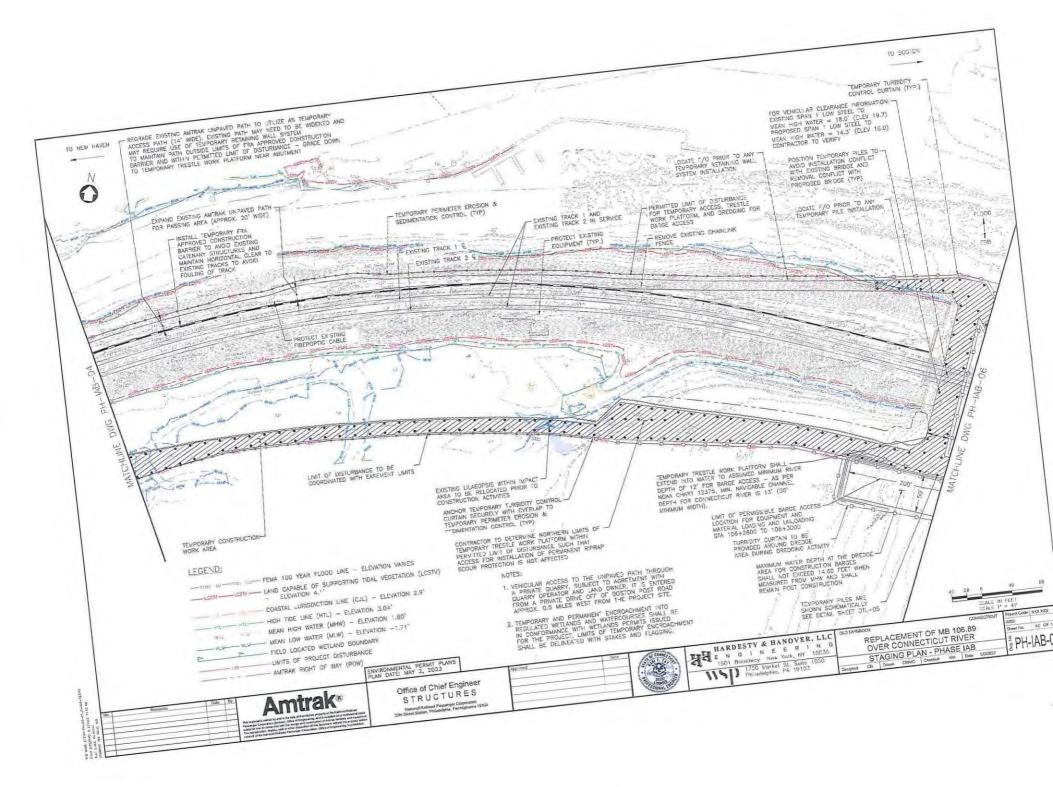


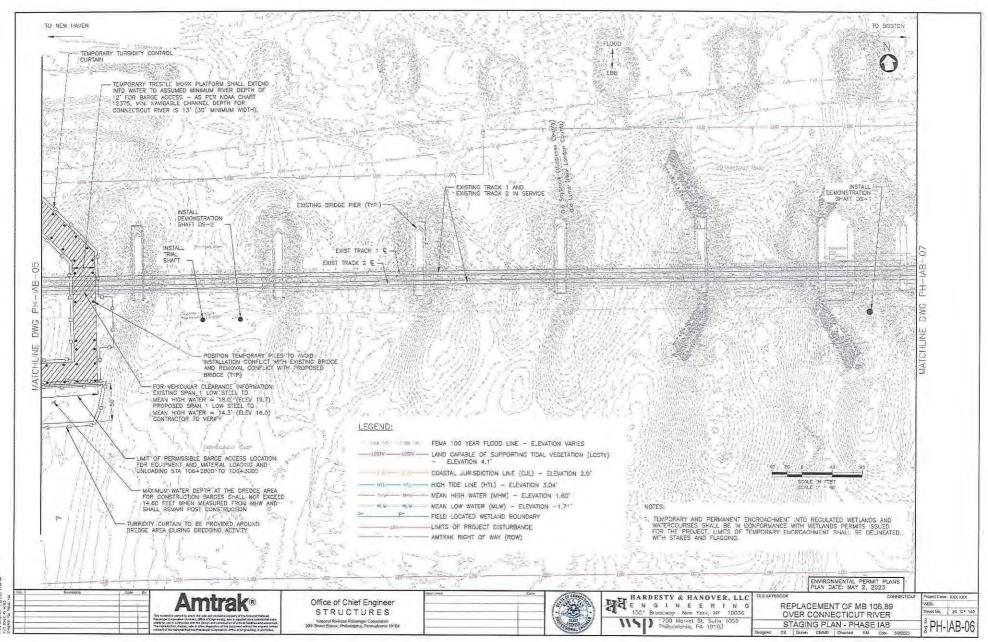
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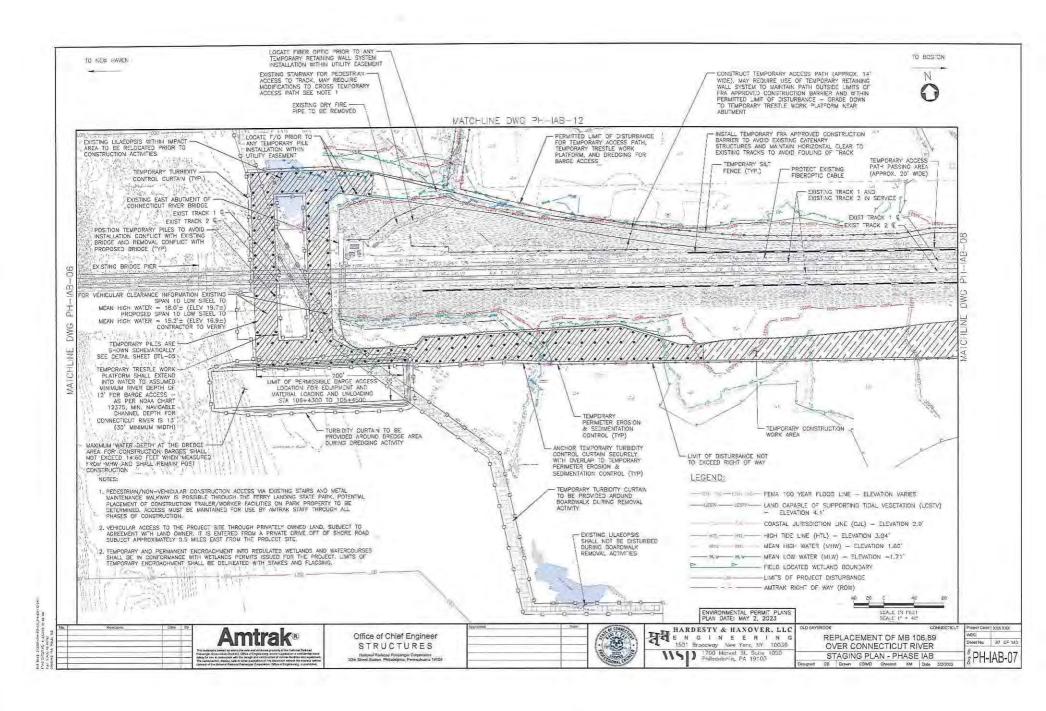


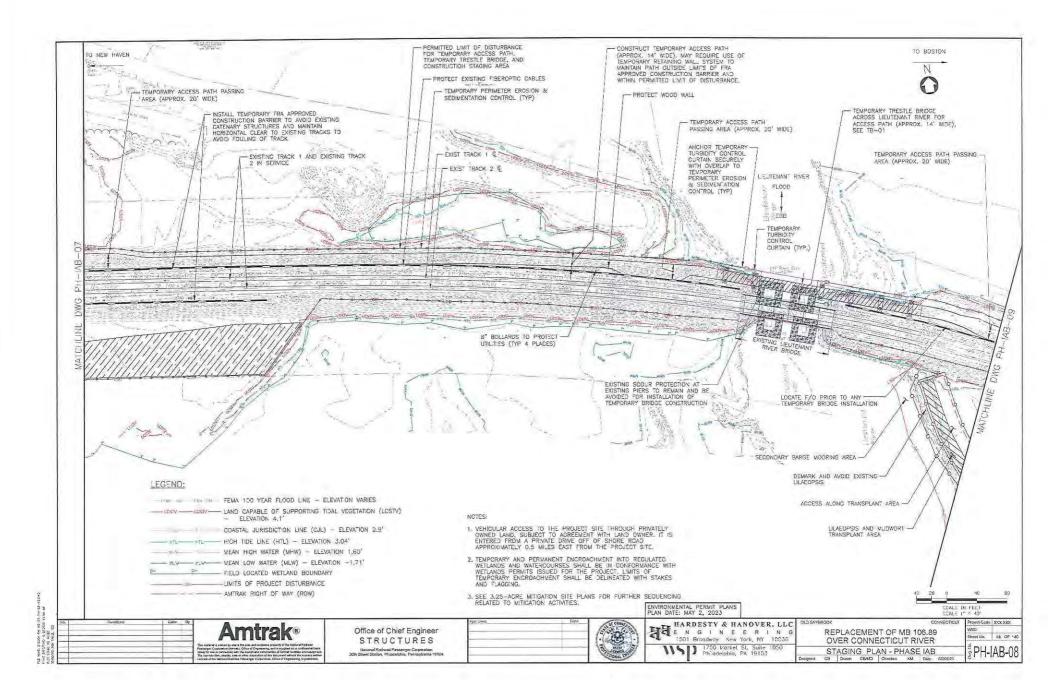
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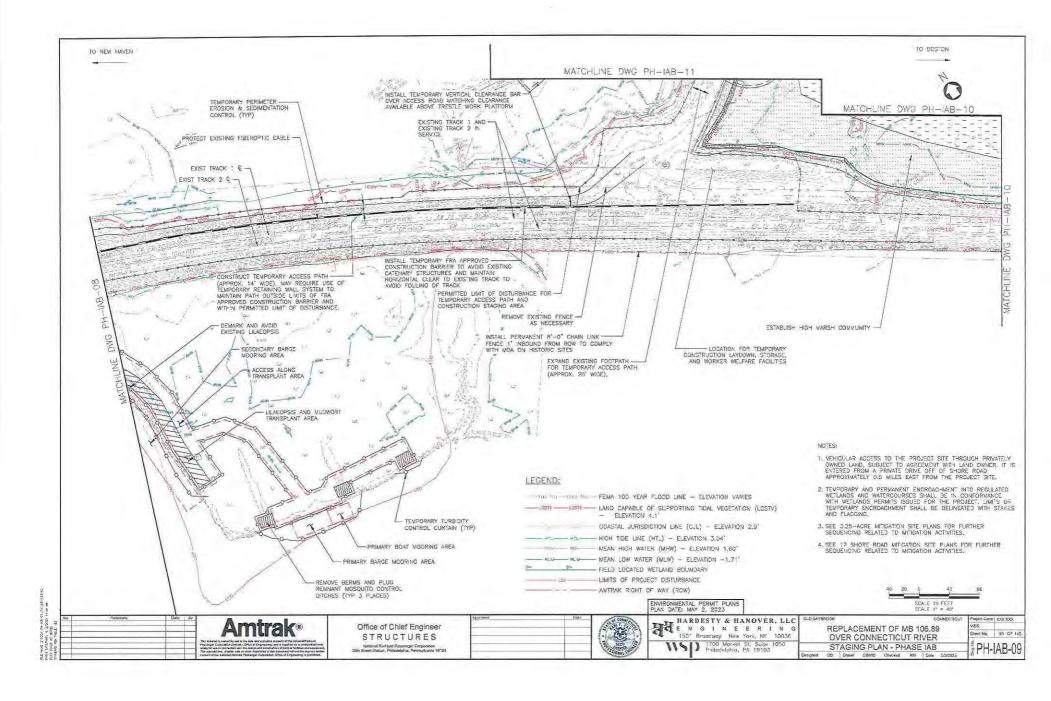


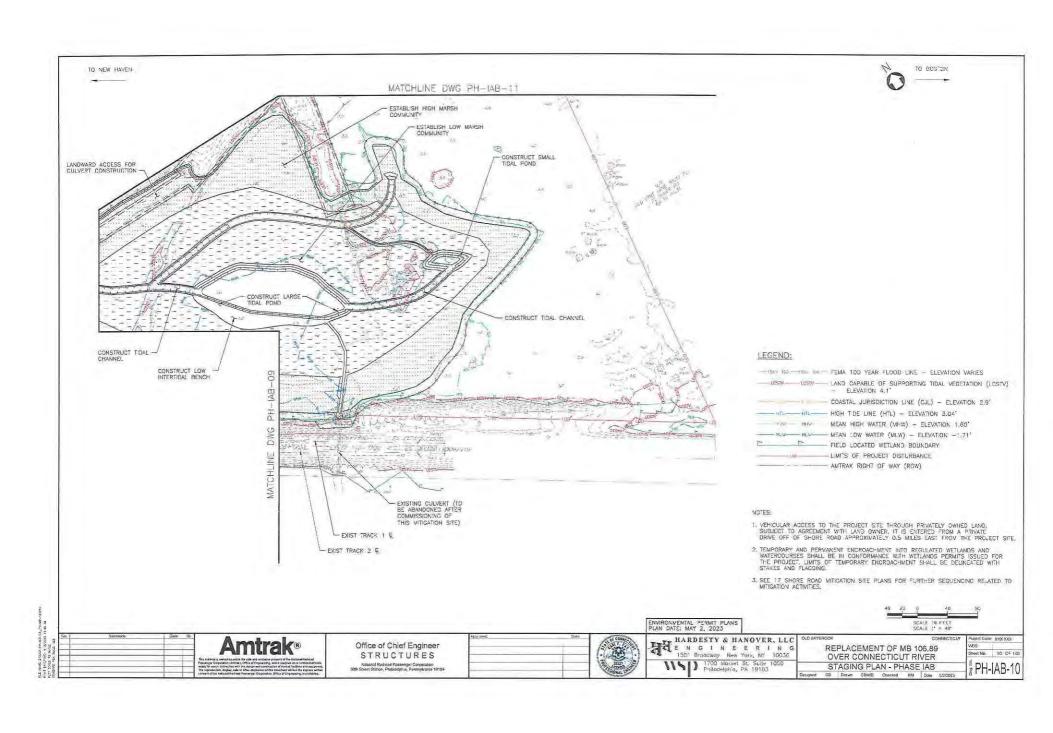


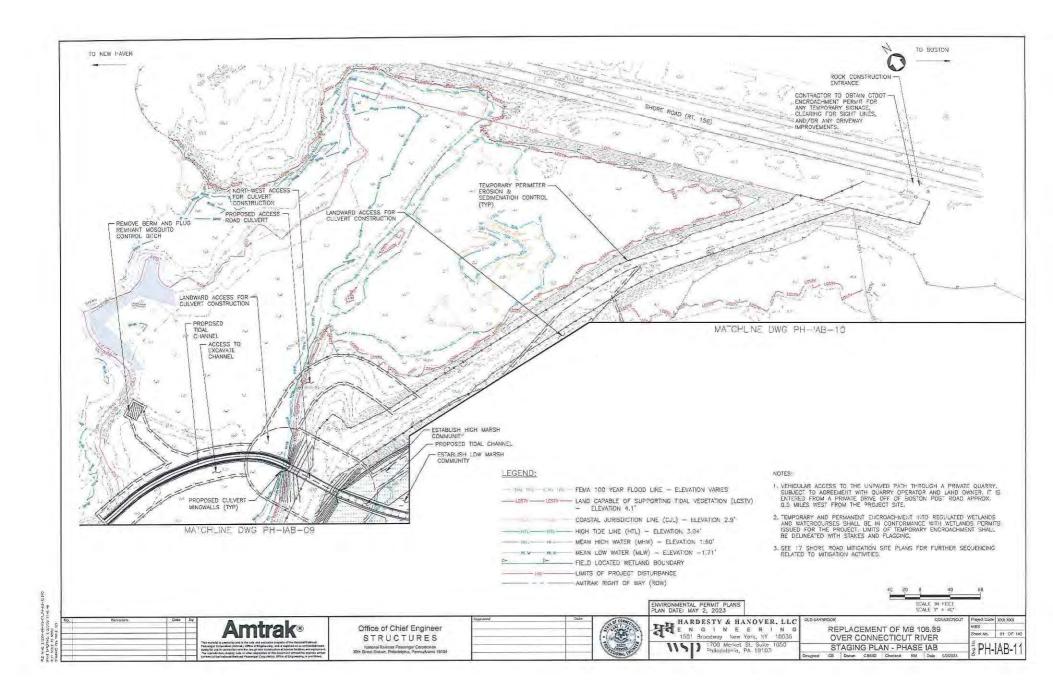
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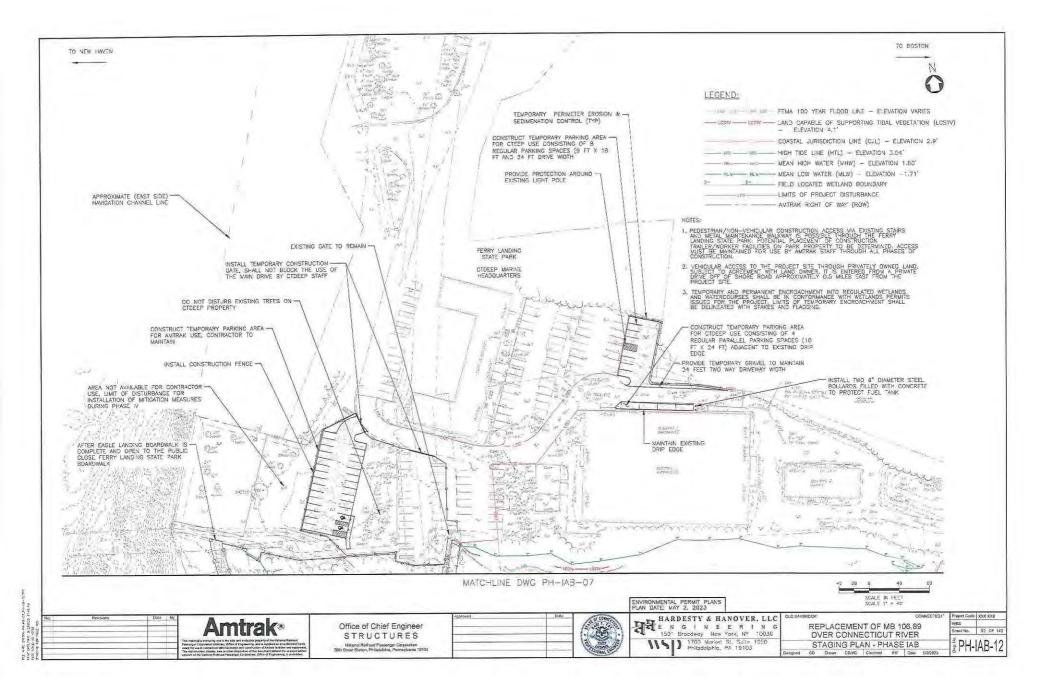


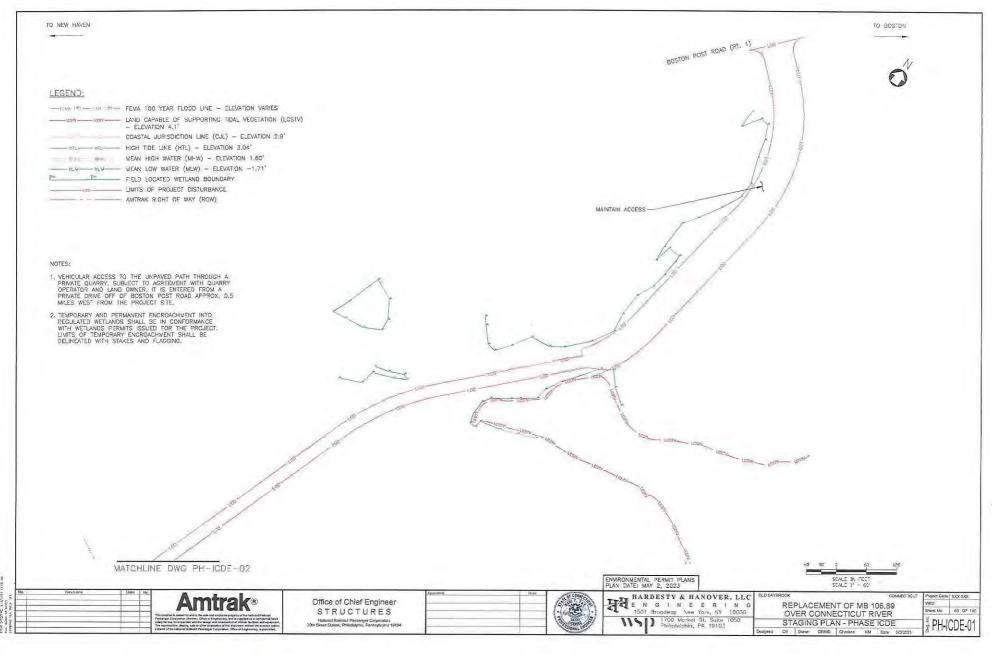




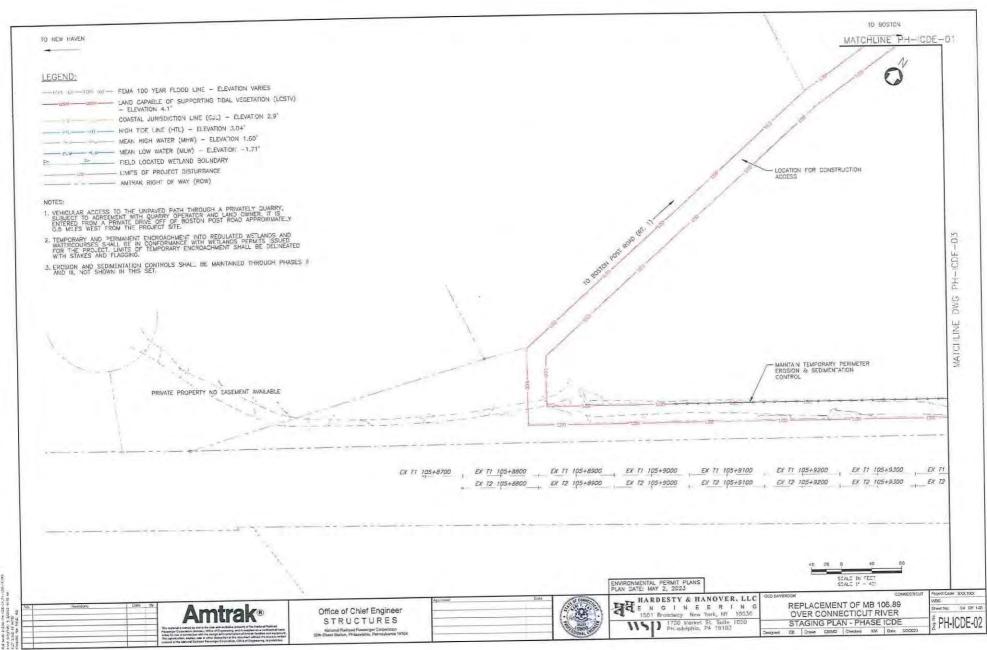


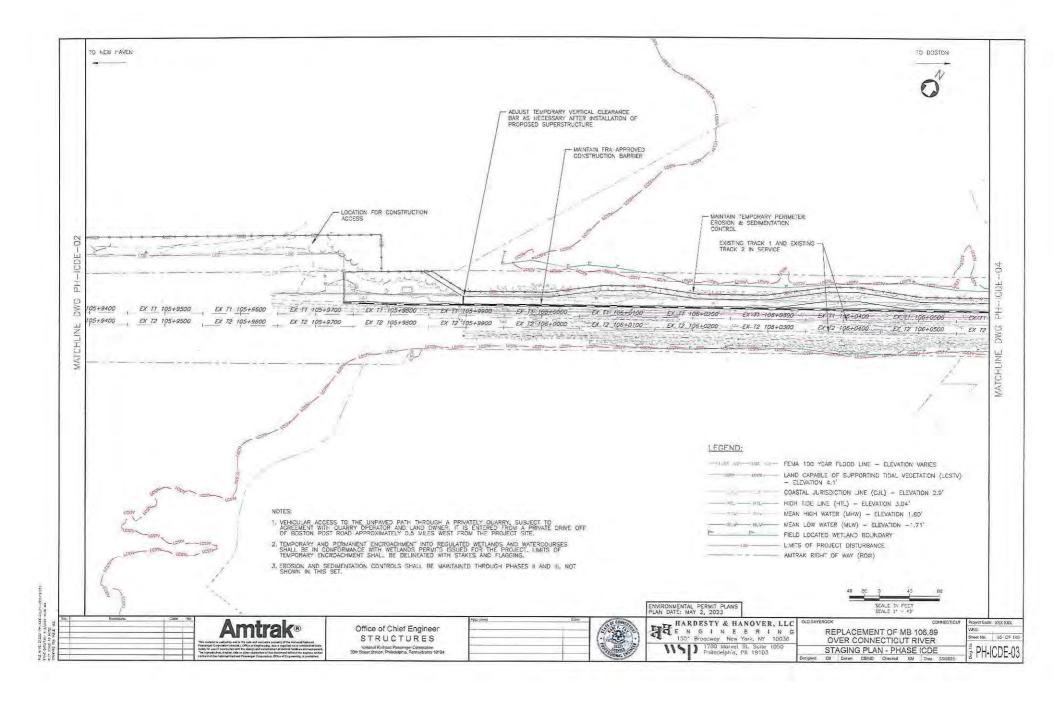


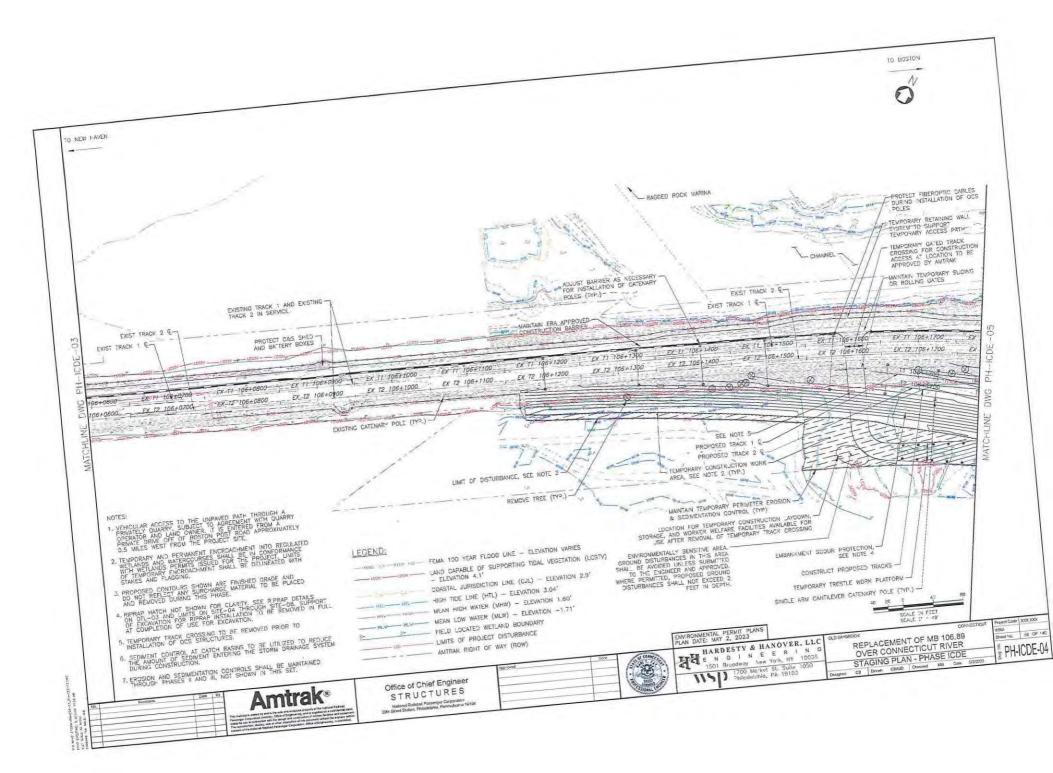


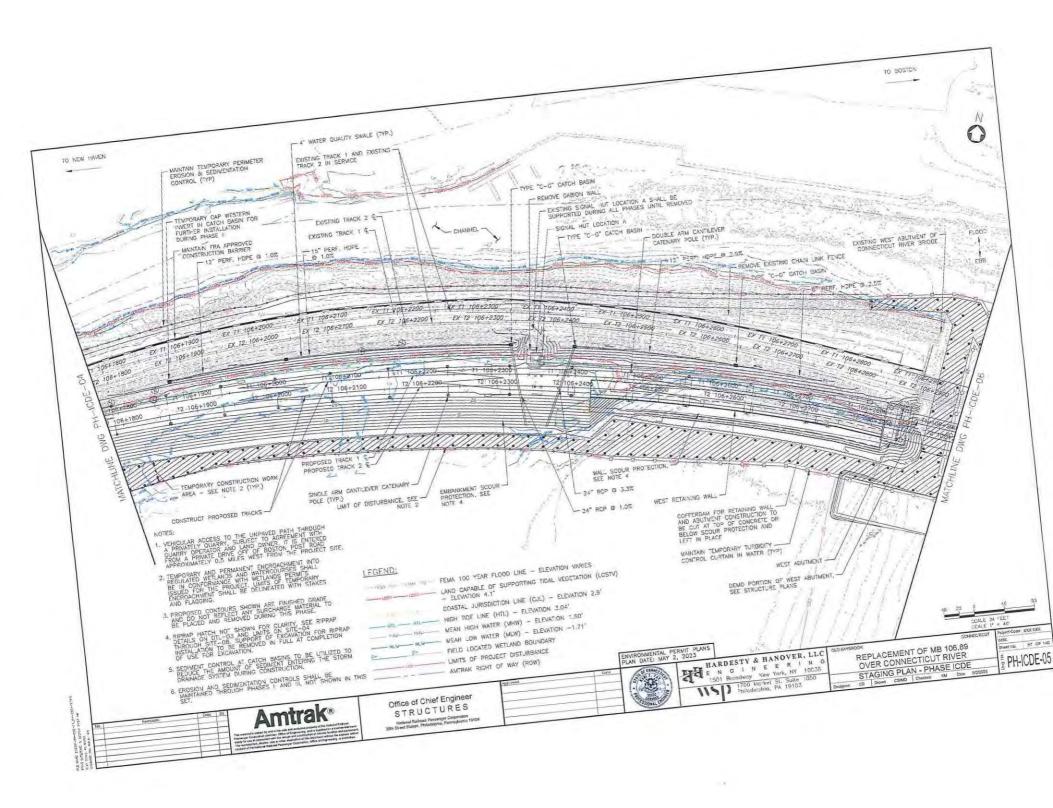


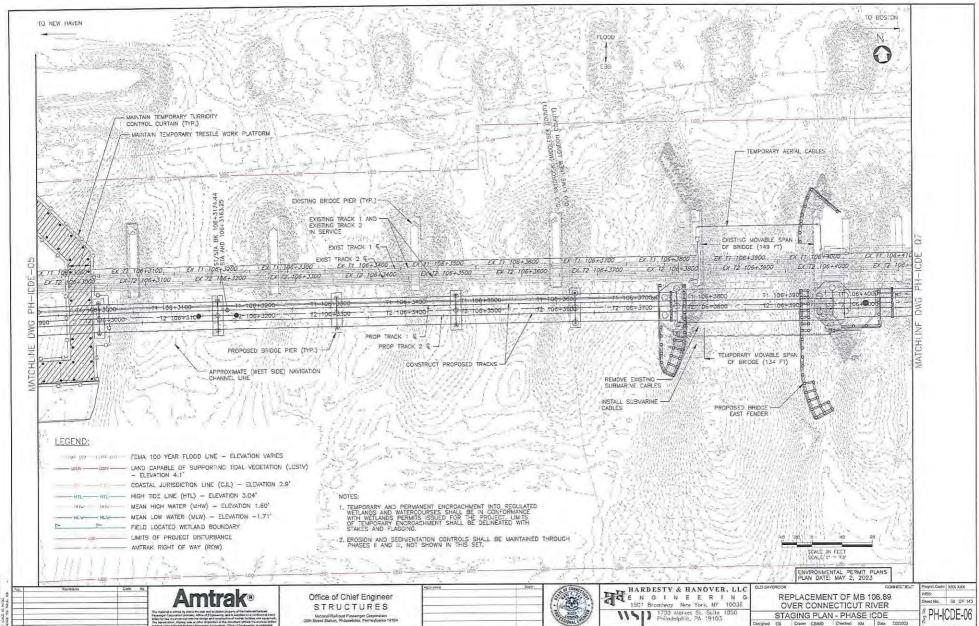
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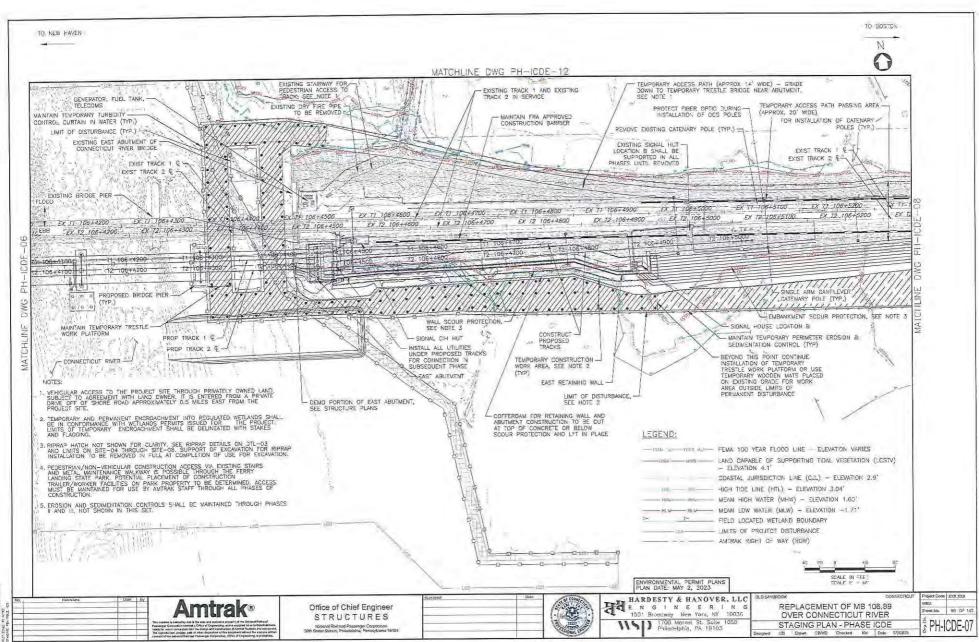




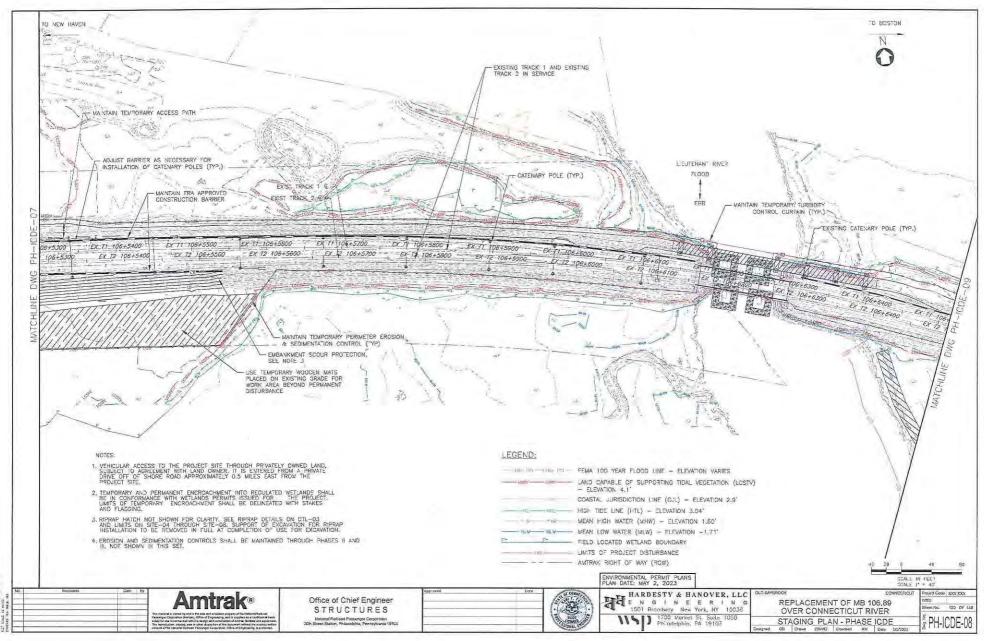




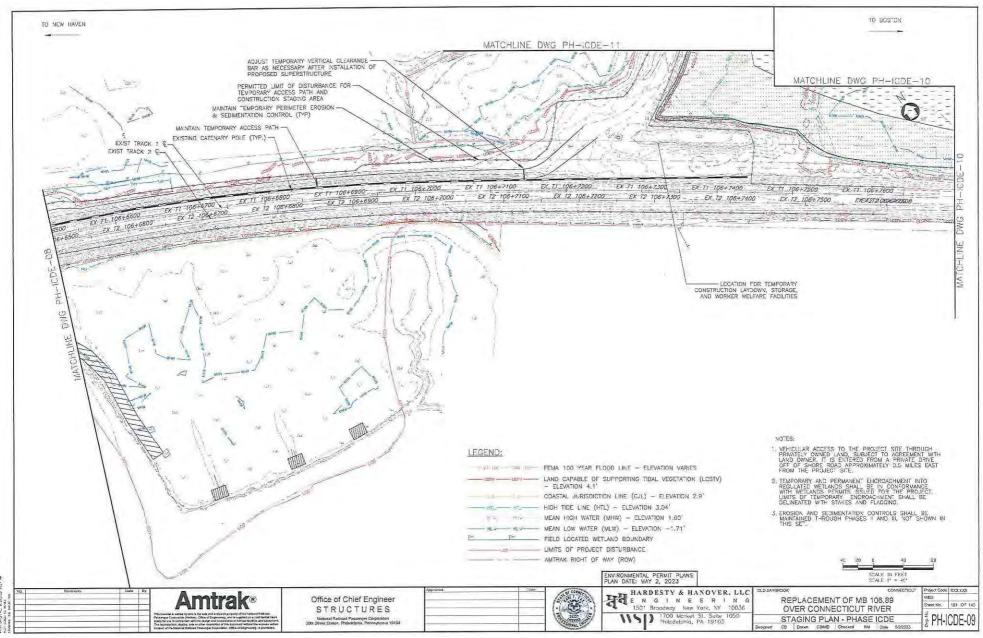
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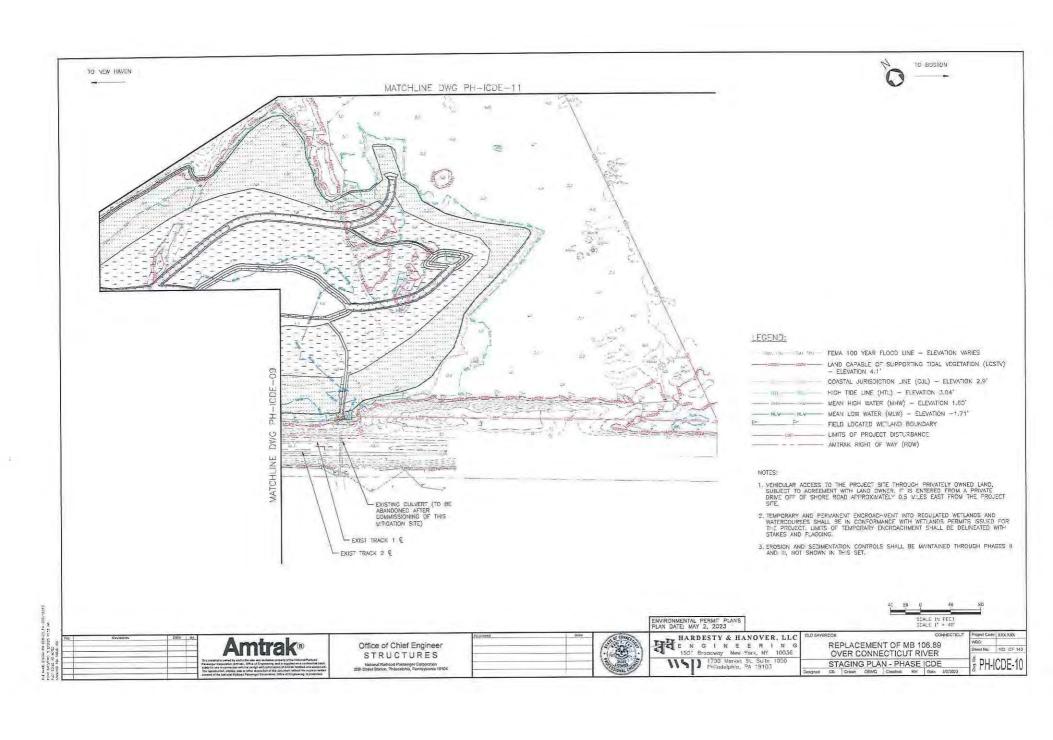
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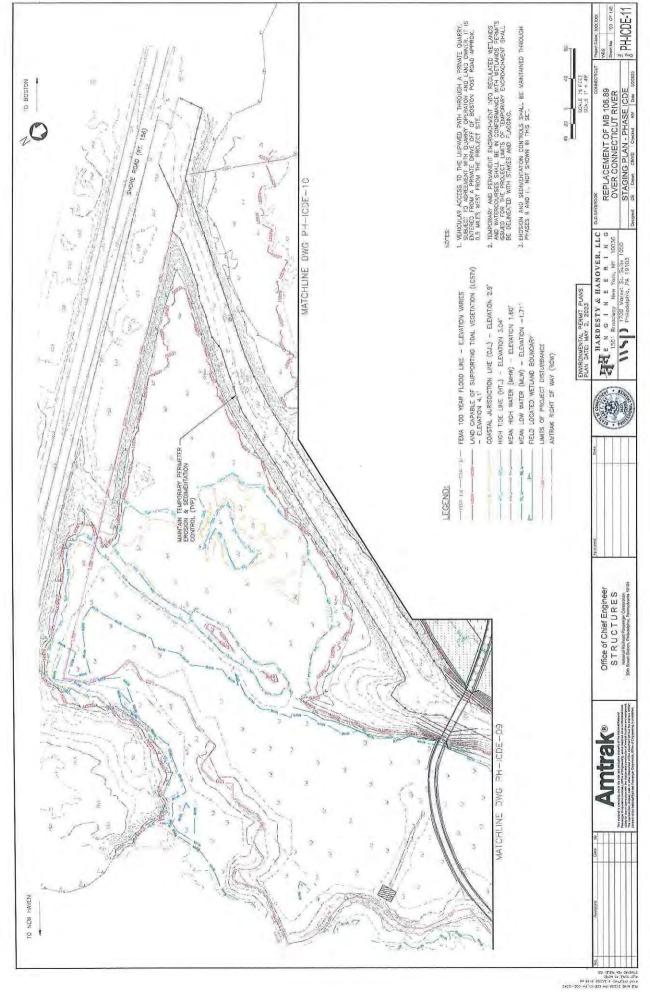


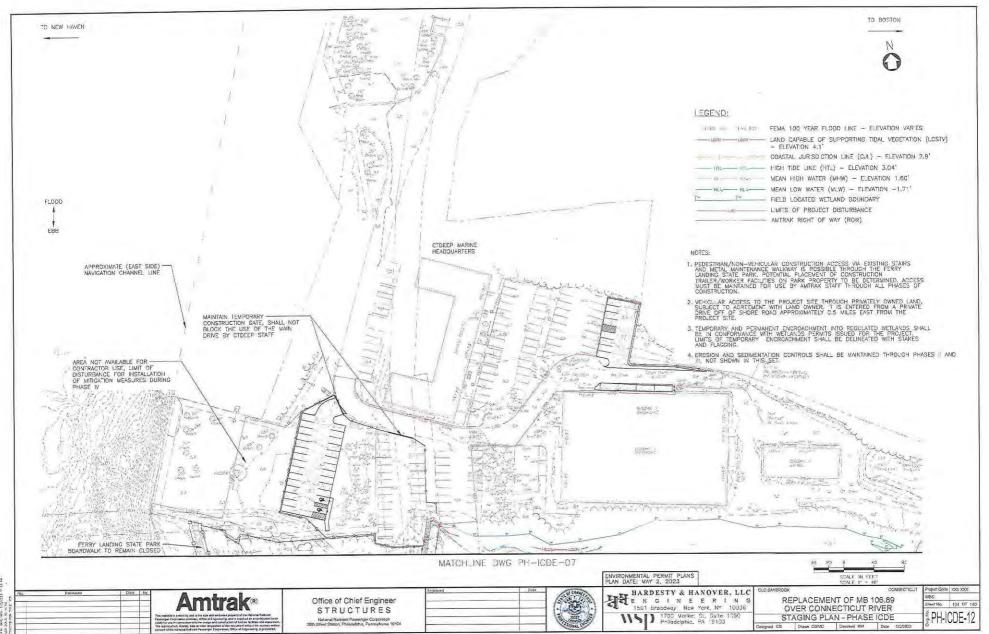
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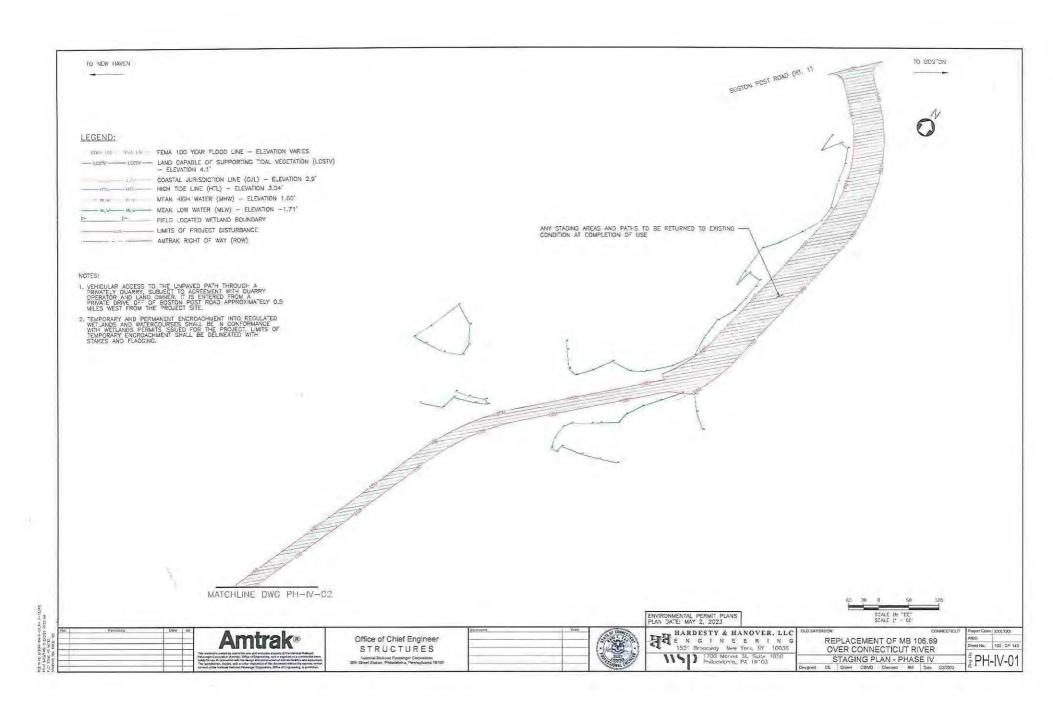
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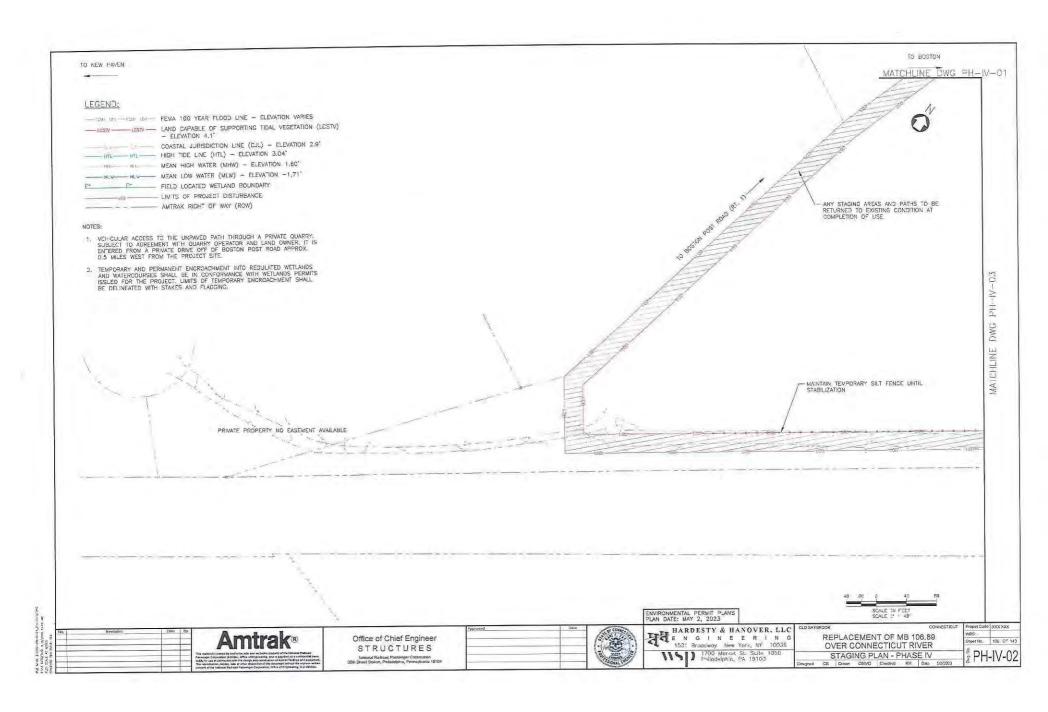


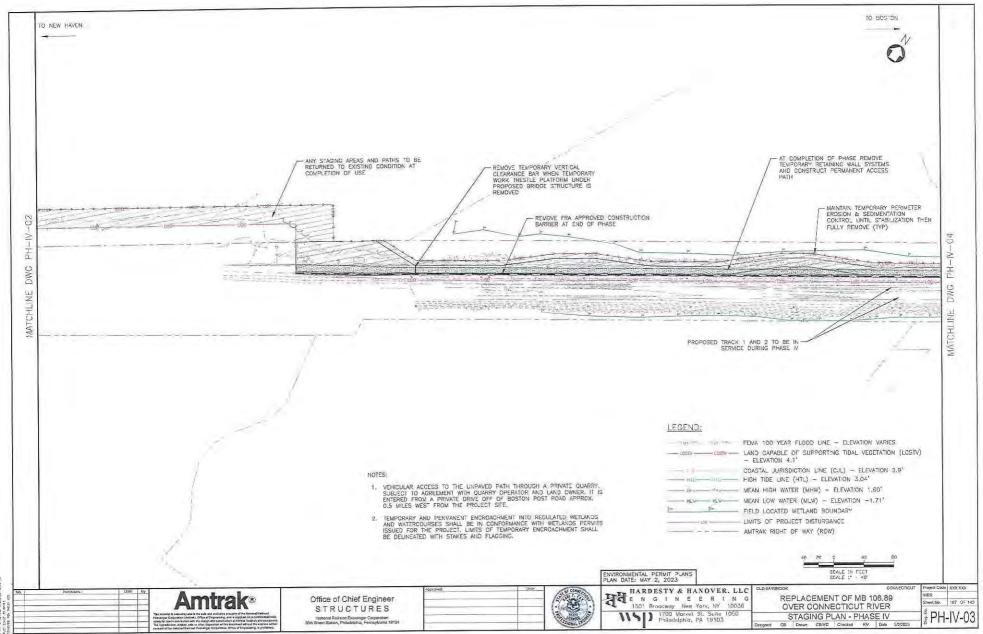


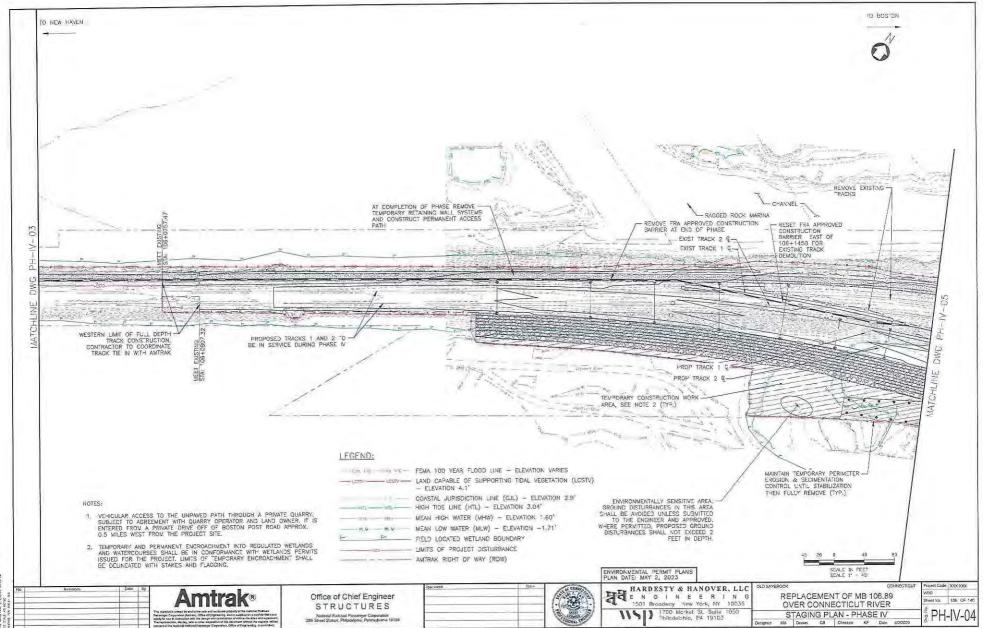


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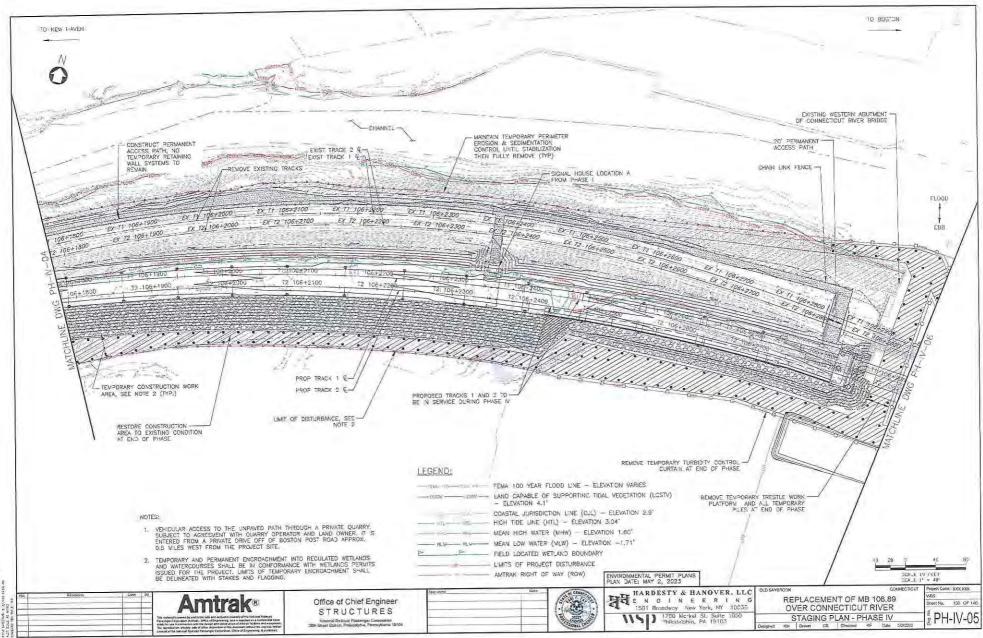


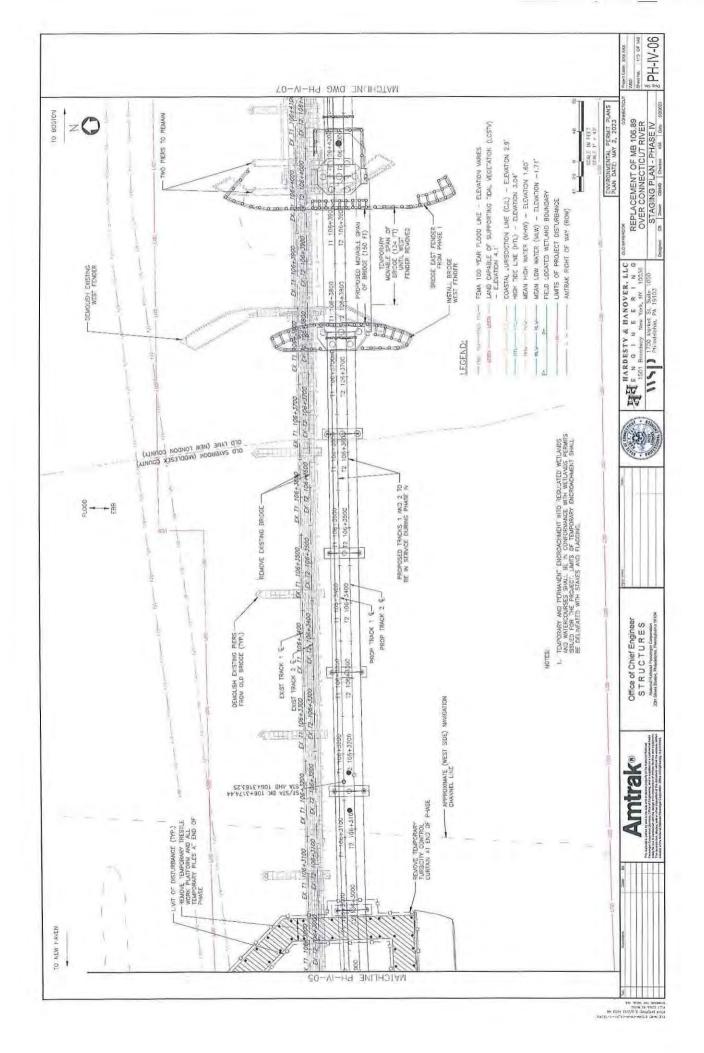


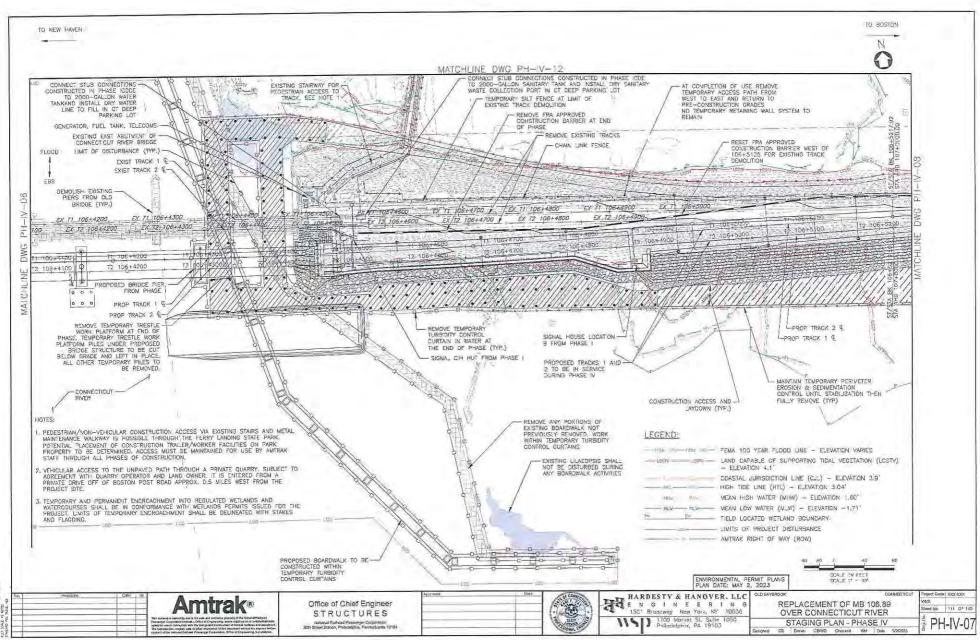




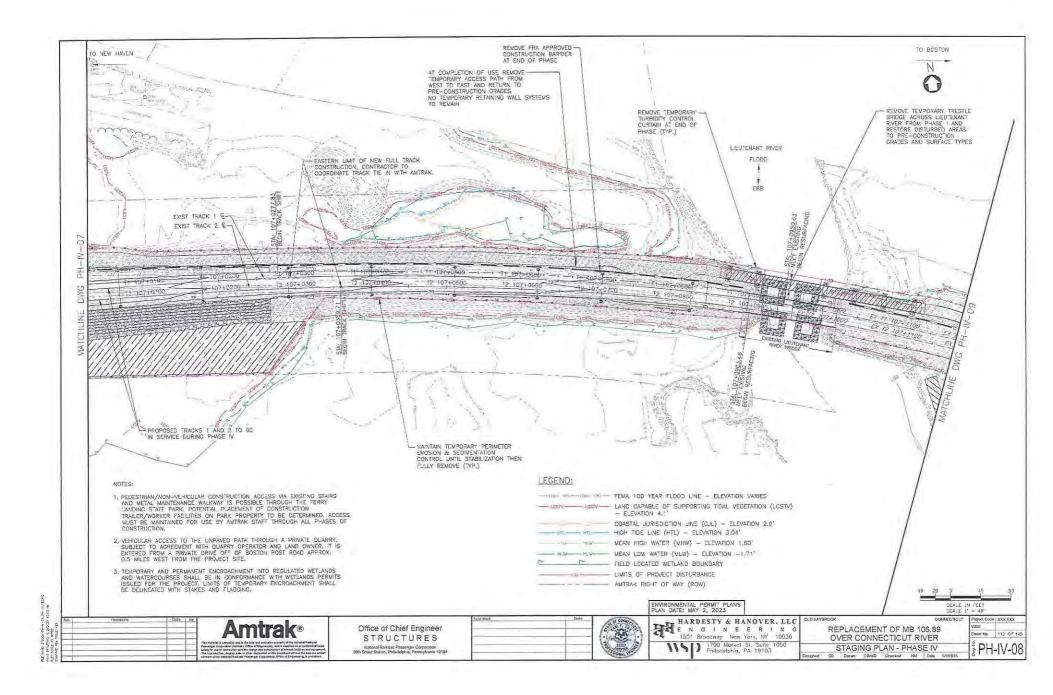
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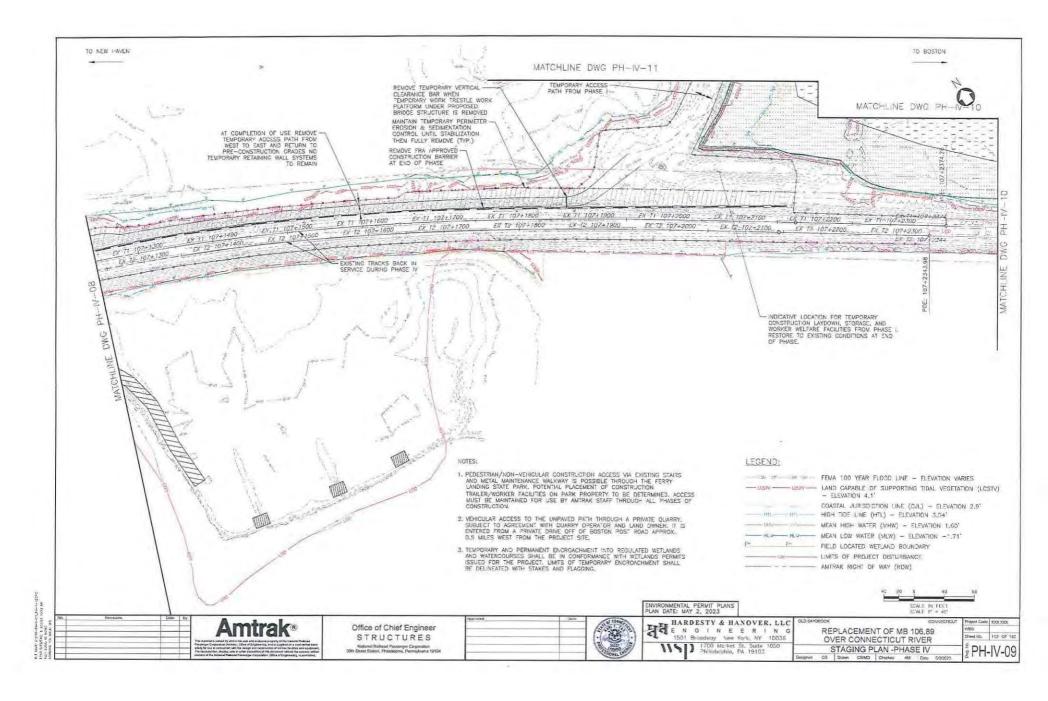


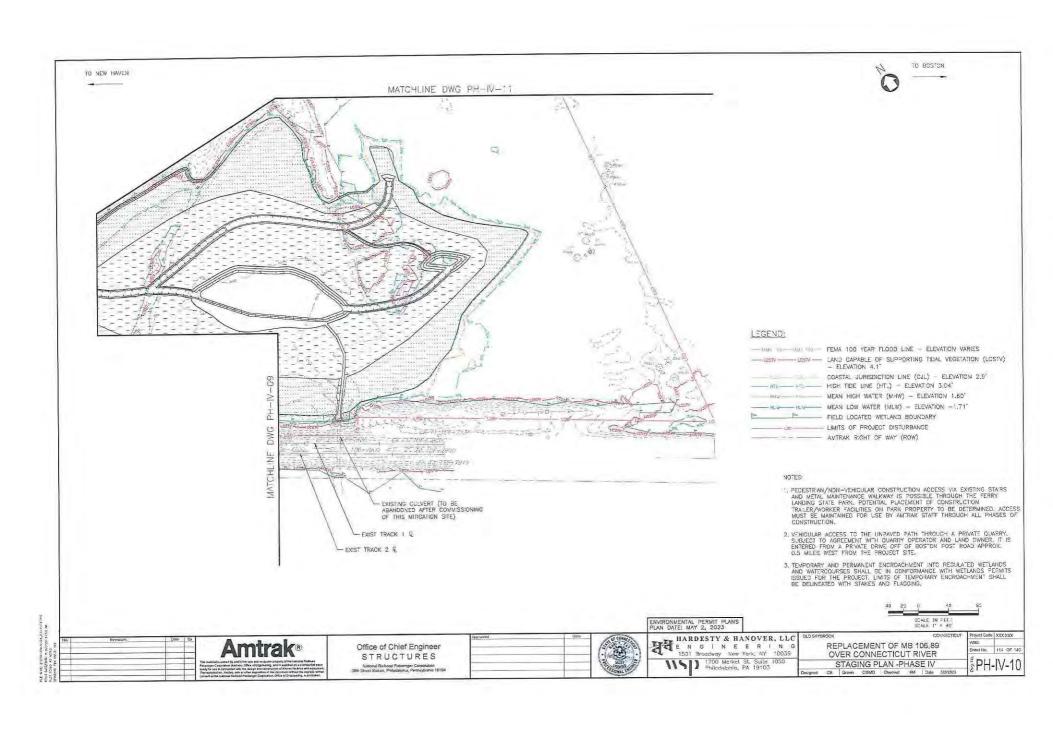


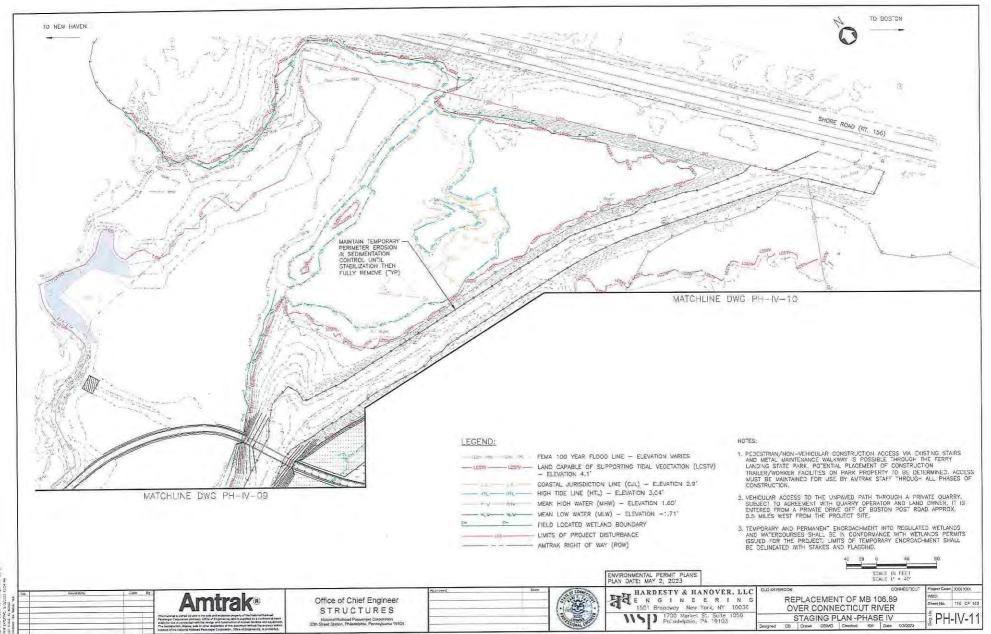


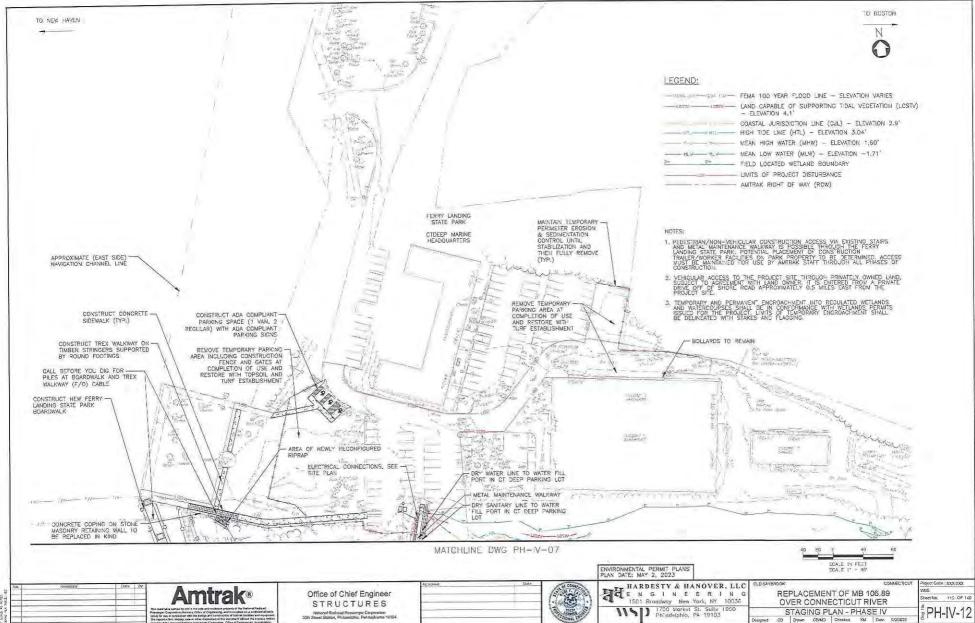
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National Railload Passenger Corporation 30th Street Station, Philadelphia, Penesylvania 19104

ee: No. 115 OF 140

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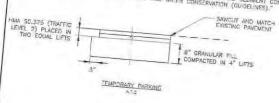
OVER CONNECTICUT RIVER

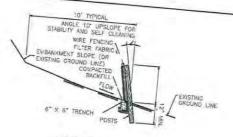
STAGING PLAN - PHASE IV
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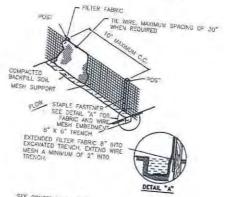


- EROSON AND SEDMENTATION CONTROL PUAN NOTES

 A. EROSION AND SEDMENTATION CONTROLS MUST BE CONSTRUCTED, STABILIZED, AND PUNCTIONAL SETORE OFFICERAL SITE DISTURBANCE WITHIN THE TRIBUTIARY AREAS OF THE PUNCTIONAL SETORE OFFICERAL SITE DISTURBANCE WITHIN THE TRIBUTIARY AREAS OF THE STABILIZED CONTROLS MUST BE STABILIZED OF STABILIZED CONTROLS AND SITE OF STABILIZED CONTROLS AND SITE OF STABILIZED CONTROLS AND SITE OF STABILIZED CONTROLS AND STABILIZED CONTROLS OF ALL SECOND AND STABILIZED CONTROLS AND STABILIZED CONTROLS OF ALL SECOND AND STABILIZED CONTROLS AND STABILIZED CONTROLS OF ALL SECOND AND SECOND AND STABILIZED CONTROLS OF ALL SECOND AND SE

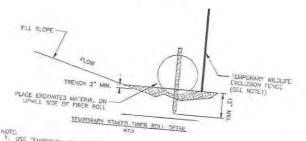


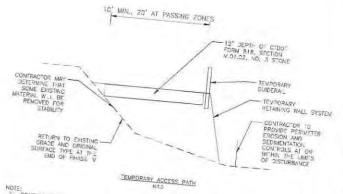




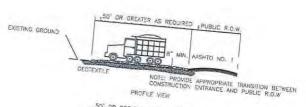
SEE CONSTRUCTION GUIDELINES FOR SOIL EROSION AND SEDIMENT CONTROL (2002) FOR ADDITIONAL FILTER FEMCE REQUIREMENTS.

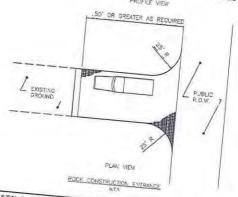
TEMPORARY SILT FENCE DETAIL





E. DONIBACTOR SHALL BE RESPONSIBLE FOR PERFORMING ANY BORINGS NECESSARY TO FACILITATE THE DESIGN OF THE "EMPORARY RETAINING WALL SYSTEMS."





TU USE TEMPORARY STAKED FIBER ROLL WITH TEMPORARY WILDLIFE EVOLUSION TENCE WHERE REQUIRED BY PERMITS.

ENVIRONMENTAL PERMIT PLANS PLAN DATE: MAY 2, 2023

Amtrak®

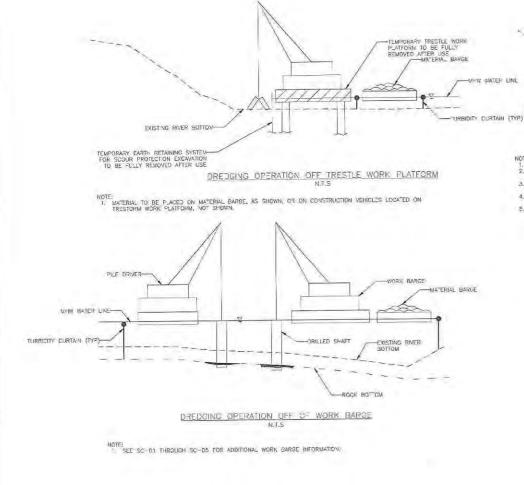
Office of Chief Engineer STRUCTURES National Radioad Passinger Corporation 50m Street Station, Principles Panesylvana 19904



HARDESTY & HANOVER, LLC
E N G I N E E R I N G
SOI Broadway New York, NY 10036 1730 Market St. Suite 1050 Philadelphia, PA 16103

REPLACEMENT OF MB 106.89 OVER CONNECTICUT RIVER CIVIL DETAILS

spet Gode LOOK JOKE Nee No. 117 OF 149 DTL-01



TEMPORARY TRESTLE PLATFORM (SEE PLAN FOR DECKING SHALL NOT CONSIST OF OPEN GRATING MHW WATER LINE MINIMUM ELEVATION 5.3 EXISTING RIVER BOTTOM TEMPORARY INSER OR STOOL PIERS TO BE FULLY REMOVED AFTER USE TEMPORARY TRESTLE WORK PLATFORM DETAIL

NOTES:

NETALLATION TO OCCUP BEHIND TURBIDITE CURTANS.

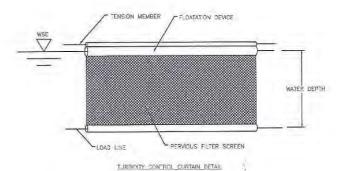
NETALLATION TO OCCUP BEHIND TURBIDITE CURTANS.

NETALLATION TO OCCUP BEHIND TURBIDITE CURTANS.

NETALLATION TO WOOD THE SITE OF THE STATE BRIDGE FOUNDATION OR BOARDWALK SHALL BE LOCATED SO AS TO AVO D POTENTIAL COMPLICITE WITH EXISTING PILES AND DIFTER OBSTRUCTURE (DETENING LOW G-PORD) TO BE DESIGNED BY CONTRACTOR, TOTAL HUNDER OF PIERS TO BE NO MORE THAN THOSE SHOWN ON PERMIT PLANS.

THE MEMORARY TRESILE WORK PLATFORM TO BE PERMOVED IN FULL AFTER COMPLETION OF USE FOR CONSTRUCTION ACCESS AND SITE RESTORES TO THE ENSITING CONDITIONS.

CONTRACTOR TO CONFIRM AWAILABLE VERTICAL CLEARANCE WINDER EXISTING BRIDGE SUPPRESTRUCTURE, NISTLALIGNOUS ATTEMPTORS, 300 WILL PROVIDE APPROXIMATELY TA'-O' UNDER EXISTING BRIDGE STRUCTURE AND APPROXIMATELY 10'-O' UNDER FREPOSED BRIDGE SUPPRISTRUCTURE.



TURBIDITY CURTAIN TO MEET CIDEEP GLASS IV STANDARDS

SS: SYNTHETIC FILTER FABRIC SHALL BE A PERVIOUS SHEET OF PROPYLENE, NYLON, POLYESTER OR ETHILENE FLANSHITS AND SHALL BE CERTIFIED BY THE VARIJIACTURE DIE SUPELER AS CONTRAVING TO THE POLLOWING REDUIREMENTS.

PHYSICA PROPERTY FILTERING EFFICIENCY

TENSILE STRENGTH AT 20% (WAX.) ELONGATION EXTRA STRENGTH - 50 lbs./ lin. in. (MIN.) STANDARD STRENGTH - 30 lbs./ lin. in. (MIN.)

0.3 ga./sq. ft./ (WN.)

2. PROVIDE FILTER FABRIC ALONG ALL INTERFACE AREAS WITH GROUND CONTACT.

ENVIRONMENTAL PERMIT PLANS PLAN DATE: MAY 2, 2023

Office of Chief Engineer STRUCTURES National Railroad Passenger Corporation 32th Street Status, Philadelphia, Pennsylvania 19194



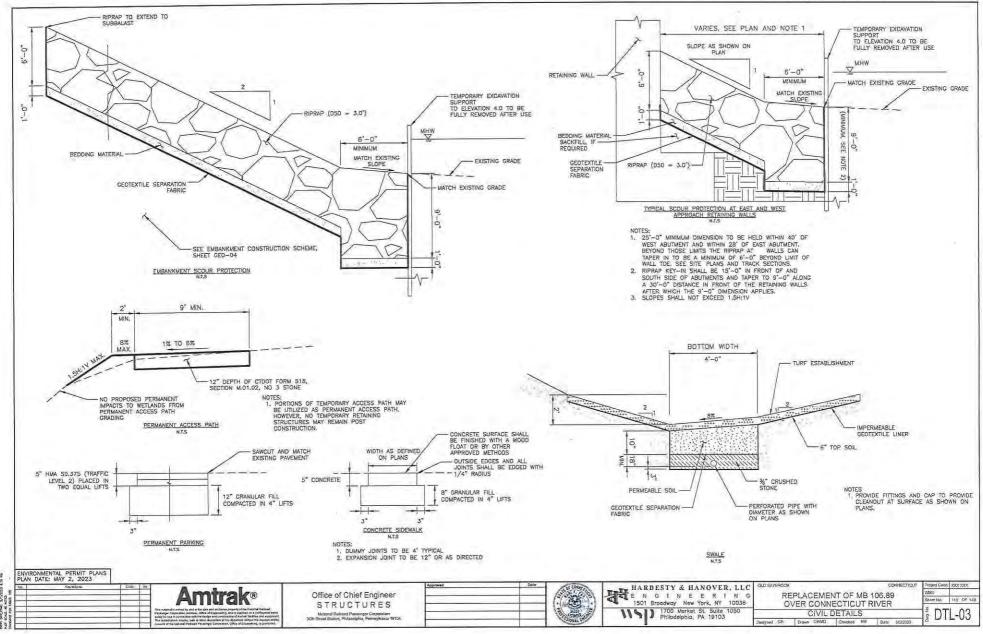
HARDESTY & HANOVER, LLC E N G I N E E R I N G '501 Broadway New York, NY 19036 11513 1700 Warket St. Suite 1050 Philadelphia, PA 19103

REPLACEMENT OF MB 106.89 OVER CONNECTICUT RIVER

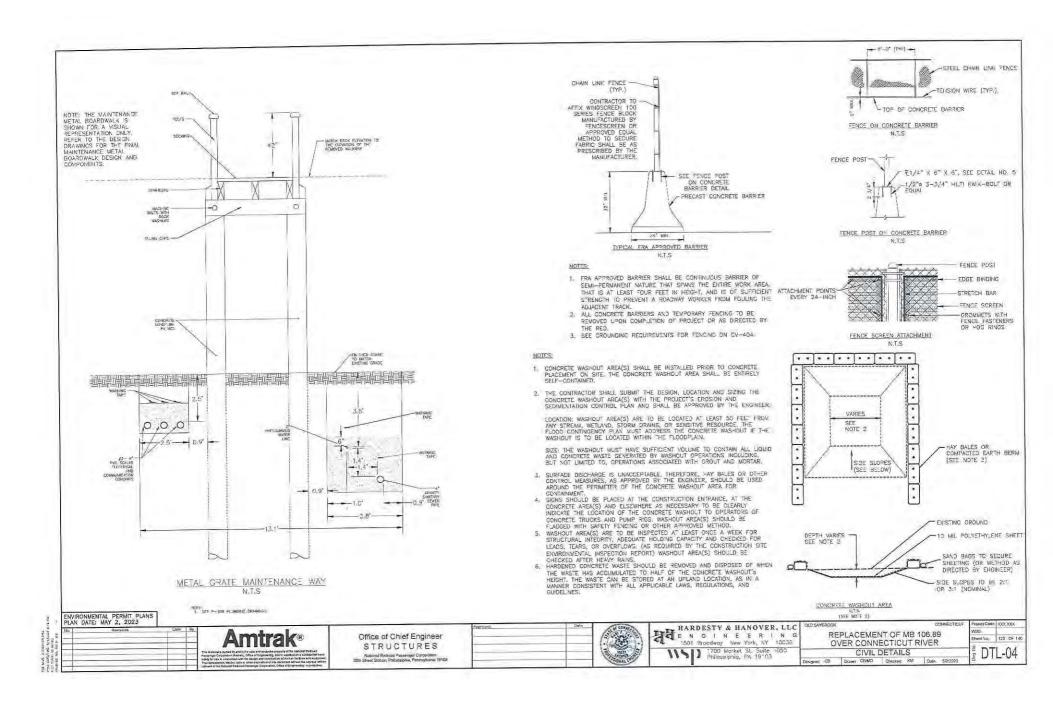
CIVIL DETAILS

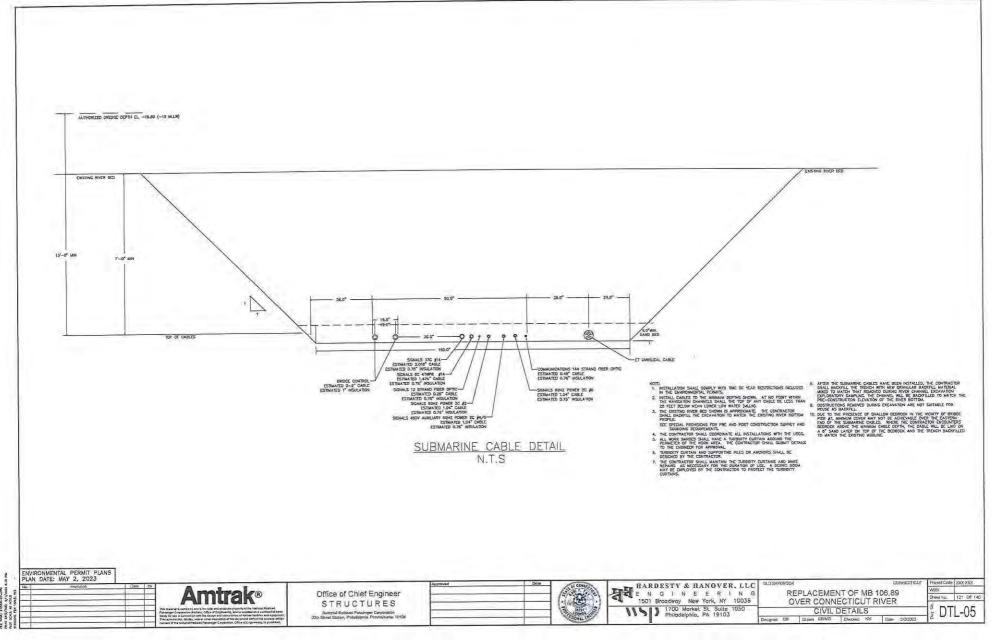
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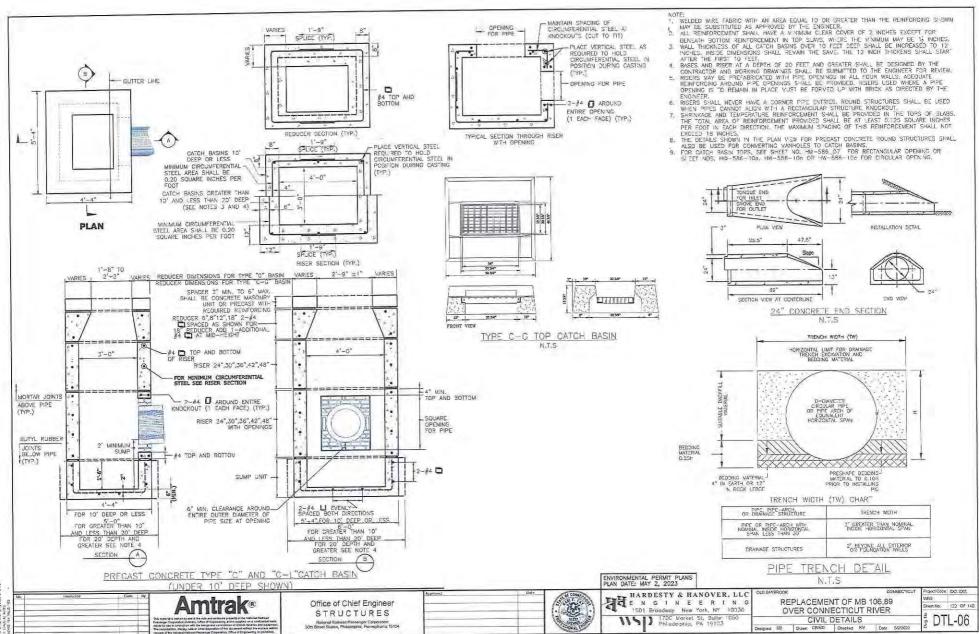


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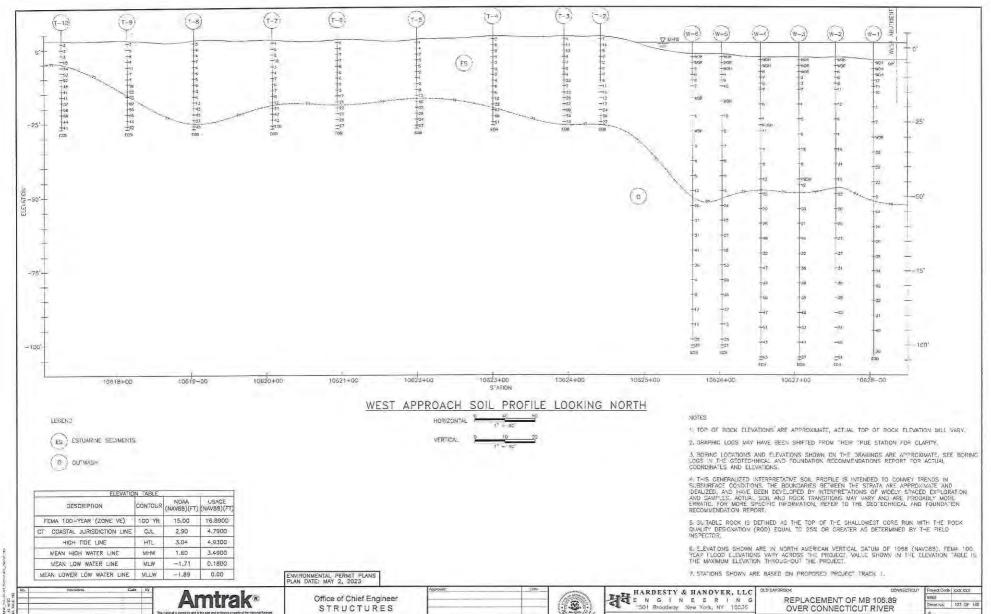




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STRUCTURES

National Railroad Passenger Corporation 30th Street Station, Philadelphia, Pennsylvania 19104

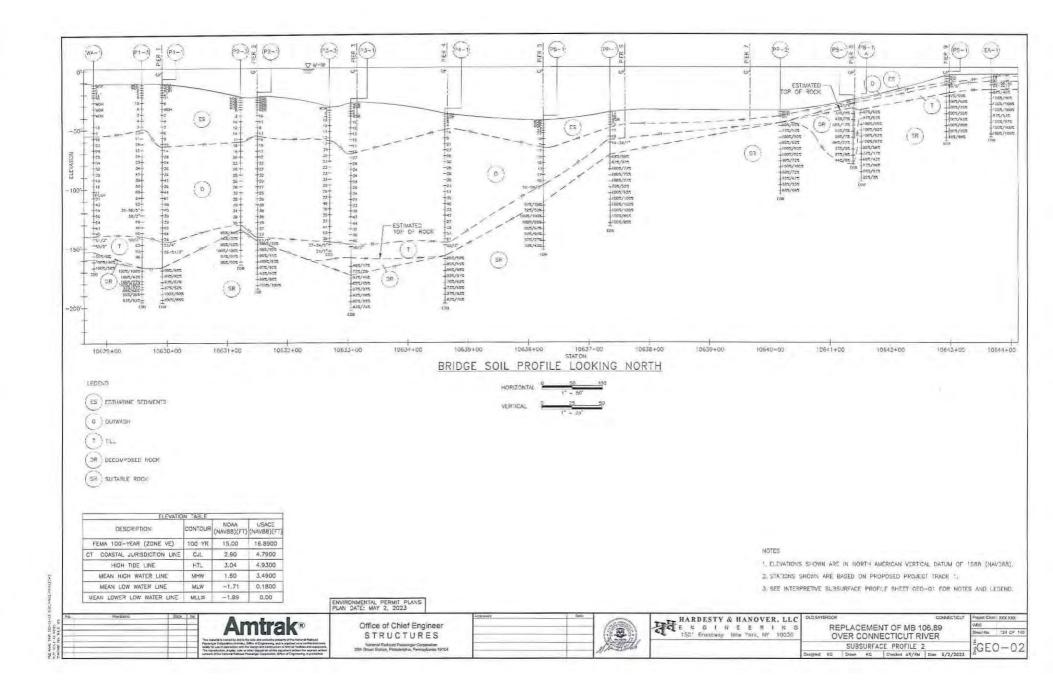
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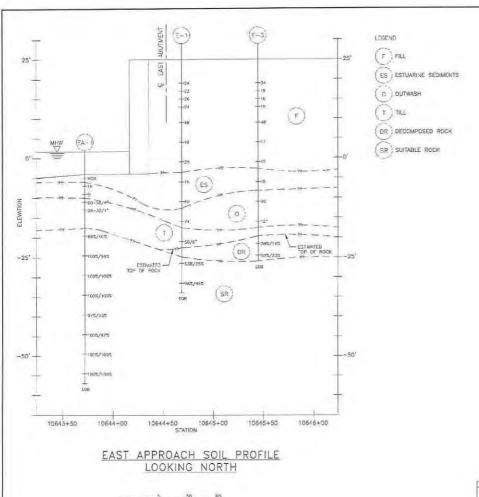
REPLACEMENT OF MB 106,89

OVER CONNECTICUT RIVER

SUBSURFACE PROFILE 1 Drawn KG Checked AR/RM Date 5/2/2023 123 OF 140

₹GE0-01





ELEVATIO	N TABLE			
DESCRIPTION	CONTOUR	NOAA (NAV88)(FT)	USACE (NAV88)(FT 16.8900	
FEMA 100-YEAR (ZONE VE)	100 YR	15.00		
CT COASTAL JURISDICTION LINE	CJL	2.90	4.7900	
HIGH TIDE LINE	HTL	3.04	4.9300	
MEAN HIGH WATER LINE	MEW	1,60	3.4900	
MEAN LOW WATER LINE	MLW	-1.71	0.1800	
MEAN LOWER LOW WATER LINE	MLLW	-1,89	0.00	

MOTES

- 1. ELEVATIONS SHOWN ARE IN NORTH AMERICAN VERTICAL DATUM OF 1088 (NAVD88).
- 2, STATIONS SHOWN ARE BASED ON PROPOSED PROJECT TRACK 1.
- 3, SEE NTERPRETIVE SUBSURFACE PROFILE SHEET GEO-O! FOR NOTES AND LEGEND.

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ENVIRONMENTAL PERMIT PLANS PLAN DATE: MAY 2, 2023

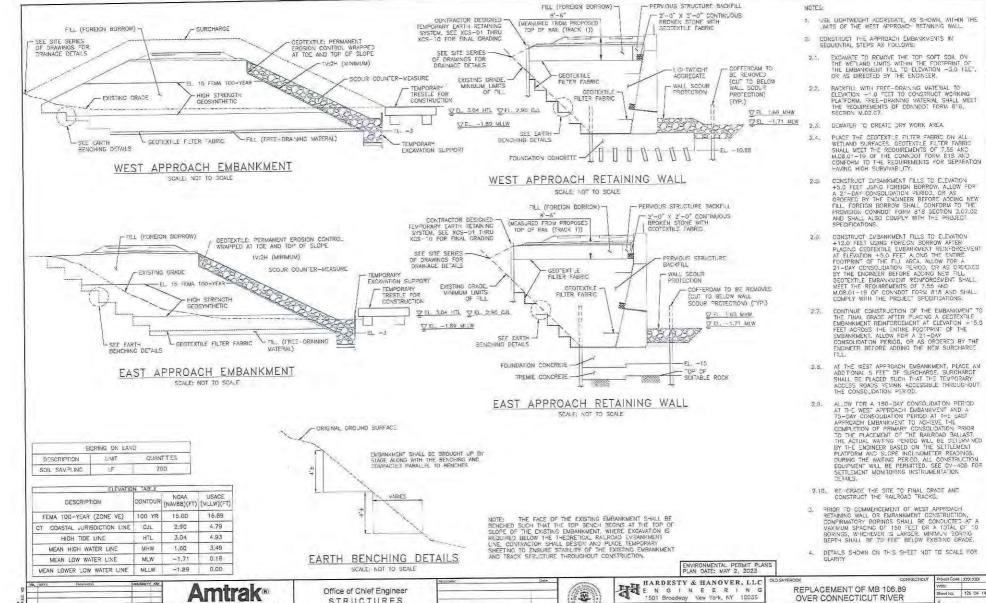
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REPLACEMENT OF MB 106,89
OVER CONNECTICUT RIVER
SUBSURFACE PROFILE 3
SUB

GEO-03

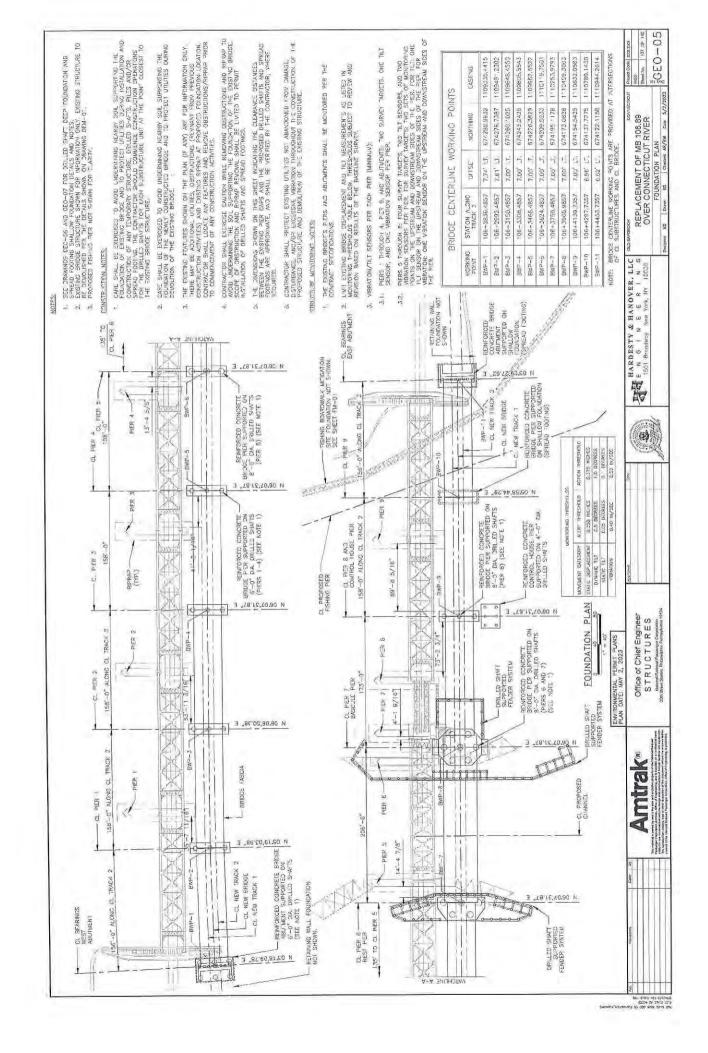
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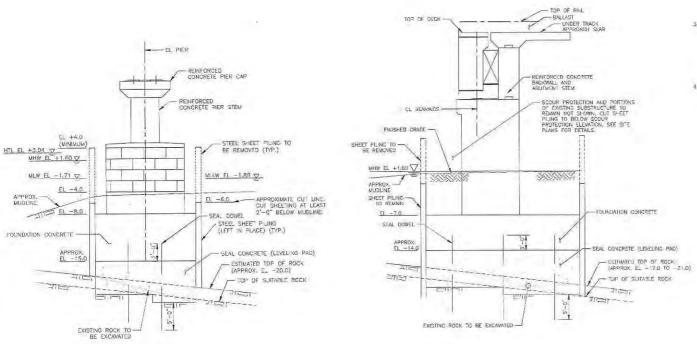


GEO-04

EMBANKMENT CONSTRUCTION SCHEME sorred KG Crawn KG Checked AR/RM Date 5/2/2023

STRUCTURES





SHALLOW FOUNDATION NOTES:

- THE BEDROOK WILL VAPY IN NATURE, SUPPE, AND DEGREE OF FRACTUR NO. AFTER THE FOUNDATION EXCAVATIONS ARE COMPLETE AND ALL DECOMPOSED DEBROOK REMOVED, THE CONTRACTOR SHALL SURVEY THE FOUNDATION BEDROOK AND PROVIDE THE EXACT BEDROOK ELEVATIONS TO THE PROJECT ENGINEER.
- 2. SEAL CONCRETE (LEVELING PAD) SHALL BE PLACED ON MON-ERODBIE SUITABLE BEDROCK CLEANED OF ALL WATH-FRED OR FALL WATH-FRED OR FACULTED ROOM OF JOSES SOLL PRIOR TO PLACING THE FOOTING, THE BEARING SUFFACE SHALL BE WASHED WITH HIGH PRESSURE WATER AND AN AND SMOOTH BEDROCK SHALL BE ROUGHENZO, WHERE THE BEDROCK SHALL BE ROUGHENZO, WHERE THE BEDROCK SUFFACE SUFFACE SUFFACE SUFFACE SHALL BE RENOHED IN LEVEL STEPS OR MADE COMPLETELY LEVEL THE BEDROCK BEARING SUFFACE SHALL BE RENOHED IN LEVEL STEPS OR MADE COMPLETELY LEVEL THE BEDROCK BEARING SUFFACE BENEFIT THE BEDROCK SUFFACE OF ABUTINEMYS AND WALLS SHALL HAVE A LEVEL SUFFACE OF ABUTINEMYS AND WALLS SHALL HAVE A LEVEL THE FACE.
- 3. WHEN SECROCK PROTRICES ABOVE THE BOTTOM OF THE FOOTING/LOVELING PAD, THE FOOTING/LOVELING PAD WAY BE CRAFED AND VERTICAL REINFORCING WAY BE CUT IN THE FIELD WITH THE APPROVAL OF THE PROJECT ENGINEER. THE MIN MUM ALLOWABLE FOOTING THEORYSIS IS SHOWN ON THE PLANS, PAYMENT FOR ADJUSTING FOOTING DEPTH AND ADJUSTING ENTRY OF THE PLANS, PAYMENT FOR ADJUSTING FOOTING DEPTH AND ADJUSTING ENTRY OF THE CONSIDERATION ENTRY OF THE PROJECT OF THE
- AT THE OPTION OF THE PROJECT ENGINEER, BEDROCK THAT PROTRUDES ABOVE THE BOTTOW OF FOOTING/SEAL CONCRETE (LEVELING PAD) ELEVATION MAY BE REMOVED.

DESCRIPTION	CONTOUR	NOAA (NAV88)(FT)	USACE (MLLW)(FT)	
FEVA 'CO-YEAR (ZONE VE)	100 YR	15.00	16.8900	
CT COASTAL JURISDICTION LINE	CUL	2.90	4.7900	
HIGH TIDE LINE	HIL	3.04	4.9300	
MEAN HIGH WATER LINE	MHW	1.60	3,4900	
MEAN LOW WATER LINE	MLW	-1.71	0,1800	
MEAN LOWER LOW WATER LINE	MLLW	-1.89	0.00	

ENVIRONMENTAL PERMIT PLANS PLAN DATE: MAY 2, 2023

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PIER 9

N.T.S

Office of Chief Engineer
STRUCTURES
National Railroad Passenger Corporation
30th Street Station, Philadelphia, Pennsylvenia 19:04



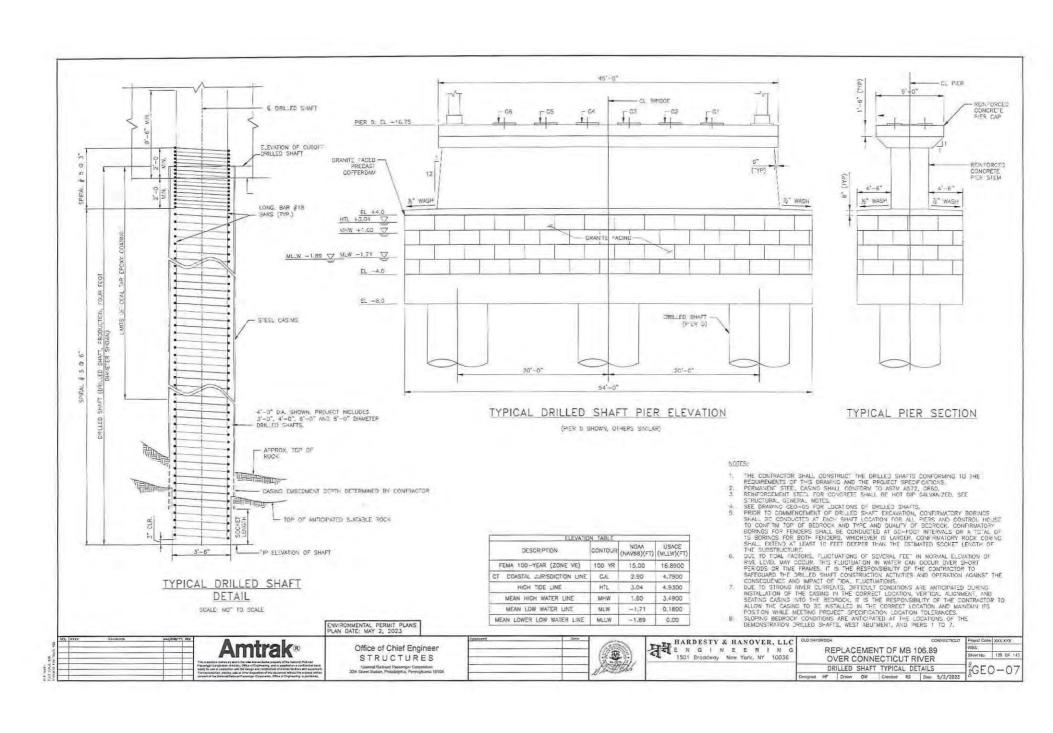
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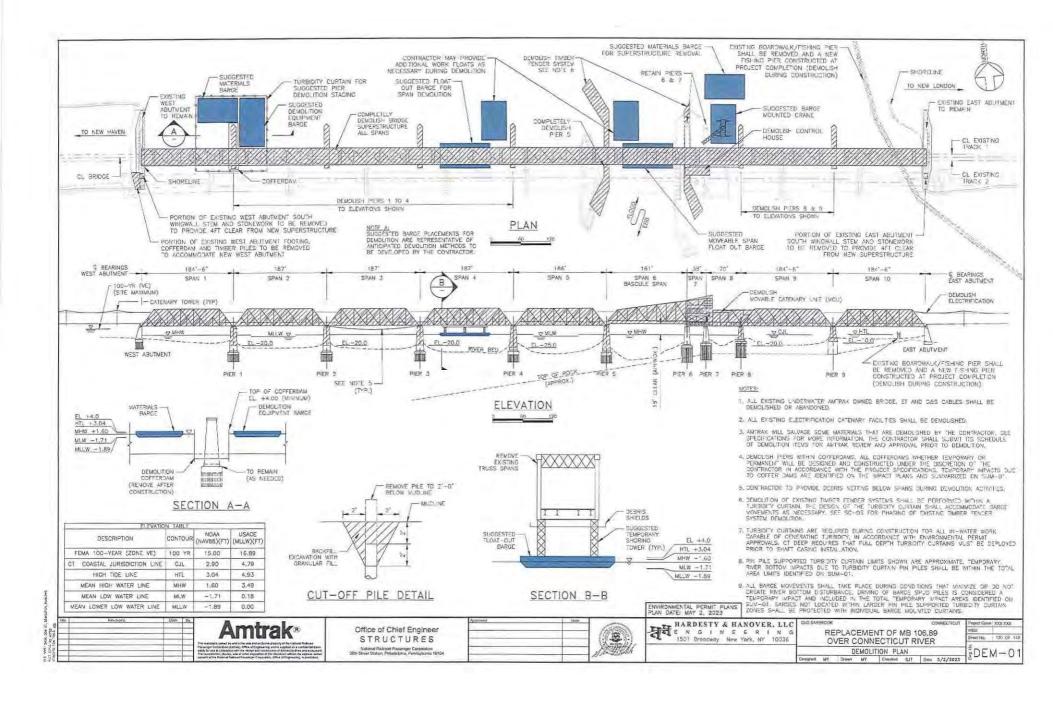
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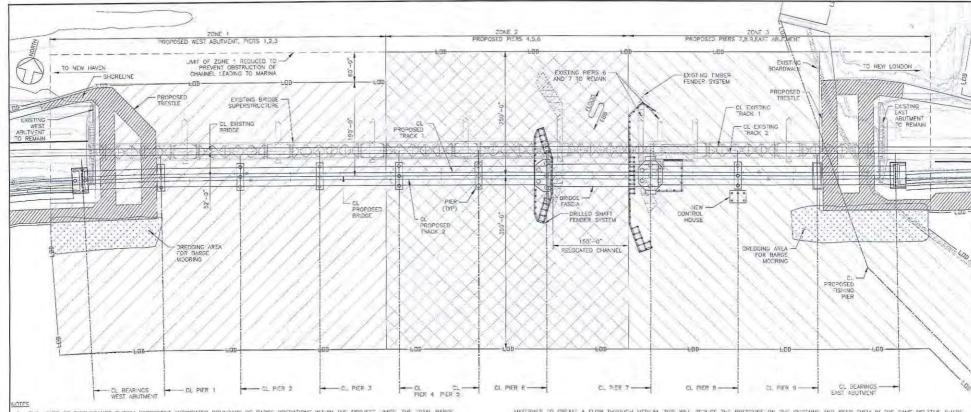
HARDESTY & HANOVER, LLC E N G I N E E R I N G 1501 Brandwey New York, NY 18056

Project Code | XXX XXX | WRS: | Sheet No. | 128 OF 146 | |

TOWN A MITTO







- THE LIMITS OF DISTURBANCE SHOWN REPRESENT ANTICIPATED BOUNDARY OF BARGE OPERATIONS WITHIN THE PROJECT LIMITS. THE TOTAL BANGE OCCUPANCY ZONE AREA DUTLINED IN THE ABOVE PLAN VIEW IS 920,000 SF (21.12 ACRES).
- 2. THE BARGE OCCUPANCY ZONES SHOWN ON THIS SHEET HAVE BEEN DEVELOPED IN CONSULTATION WITH CIDEEP, THE RESTRICTIONS ON WORK WITHIN PARTICULAR ZONES ARE COVERNED BY THE APPLICABLE TIME OF YEAR RESTRICTION DESCRIBED IN THE PERMIT AND HEREIN.
- 3. BARDES USED FOR CONSTRUCTION OR DEMOLITION WILL BE LOCATED WITHIN THE BOUNDARIES SHOWN ON THIS SHEET, ZONES ARE INTENDED TO LIMIT THE WORK TO A VAXIMUM OF 3 PIERS SINULTANEOUSLY DURING THE PERIOD OF APRIL 1 TO JUNE 30, LATERAL BOUNDS OF THE ZONES ARE APPROXIMATE AND IT IS UNDERSTOOD THAT BARDES OF THEPBOTY CURTAINS MAY OVERLAP ZONES. THE ZONES ARE AS FOLLOWS:

 3.0. ZONE 2 AREA BETWEEN FER 4 AND PIER 5
 3.0. ZONE 2 AREA BETWEEN FER 4 AND PIER 5
 3.0. ZONE 2 AREA BETWEEN FER 4 AND PIER 5

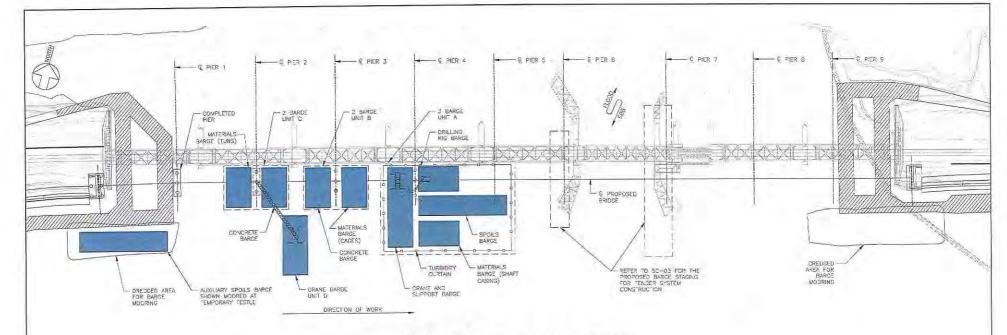
- 4. AT NO TIME DURING THE PERIOD OF APRIL I TO JUNE 30 SHALL IN-WATER CONSTRUCTION OR DEMOLITION DOCUR IN THE MIDDLE OF THE RVER (ZONE AT NO TIME DURING THE PERIOD OF APRIL 1 O JUNE 30 SHALL IN-MATER CONSTRUCTION OF DEMOLITION DECOR. IN THE MIDDLE OF THE WORK LAND.

 2) OR SINULIARIOUSLY AT MORE THAN THREE PIERS (ZONES 1 OR 3), JADIONOMOUS FISH CAN TILLZE THE ENTITIE WITH OF THE CONSECTION THE PERMANELY MIGRATT OF THE WORK AND THE WORK AND THE WORK THE WORK (ZONE 2), TO ENSURE THE WORK AND THE WORK AND THE WORK THE WORK (ZONE 2), TO ENSURE THE WORK (ZONE 2) OF THE WORK (ZONE 2), TO ENSURE THE WORK (ZONE 2) OF THE WORK (ZONE 2), TO ENSURE THE WORK (ZONE 2) OF THE WORK (ZONE 2), TO ENSURE THE THERE WESTERN-MOST (ZONE 3) PIERS, DURING THE SPRING MIGRATION, NO.

 CONSTRUCTION OR DEMOLITOR OF PIERS SHALL (OCCUR WITHIN THE MIDDLE THREE PIERS (ZONE 2).
- 5. VIBRATORY HAMMERS SHALL BE USED DURING THE DIAGROMOUS FISH MIGRATORY PERIOD FROM APRIL 1 TO JUNE 30, IN ORDER TO REDUCE THE NOISE MIPACTS FROM DRIVING SHEET PILE SHAFT CASINGS. THE USE OF IMPACT HAMMERS IS ACCEPTABLE OUTSIDE OF THIS TIMEFRAVE
- 6. TO MINIMIZE CONSTRUCTION RELATED TURBICITY, FULL DEPTH TURBICITY CURTAINS SHALL BE DEPLOYED PRIOR TO DRIVING ANY SHEET PILE OR SHAFT CASINGS. DUE TO STRONG TICES AND CURREN'S, THE FABRIC FOR THE CURTAINS WILL BE SELECTED TO BE COMPOSED OF HEAVY WOVEN PERMICUS

- MATERIALS TO CREATE A FLOW THROUGH MEDIUM, THIS WILL REDUCE THE PRESSURE ON THE CURTAINS AND KEEP THEM IN THE SAME RELATIVE SHAPE AND LOCATION AT ALL TIDES AND RIVER FLOWS.
- 7. ARTIFICIAL LIGHTING OVER THE WATER SHALL BE LIMITED TO NAVIGATION LIGHTS AND ANY LIGHTING TYPICALLY REQUIRED FOR THE OPERATION OF THE RALBOAD BROKED DURING THE STRING MIGHTATON PERGOD FROM APRIL 1 TO JUNE 30. DIADROMOUS FISH OFTEN MIGHTE AT MIGHT, AND BRIGHT ARTHROAL LIGHTS DAN INTERFERE WITH THEIR MIGHTATION.
- 8. THE PULLING OR CUTTING OF TIMBER PLES SHALL BE PROHIBITED FROM FEBRUARY 1 TO JUNE 30.
- 9. ALL TIMBER PILES AND STONE PIERS SHALL BE REMOVED TO AT LEAST TWO FEET BELOW THE MUDICINE.
- 10. ALL DREDGING AND SUBCABLE INSTALLATION SHALL BE PROFISITED FROM FEBRUARY 1 TO JUNE 30 INCLUSIVE
- 11. DUE TO THE NOISE CONCERNS, THE USE OF HOE RAMS SHALL BE PROHIBITED APRIL 1 TO JUNE 30, INCLUSIVE
- 12. ANY WORK DONE FROM BARGES SHALL DNLY OCCUR WHEN THERE IS SUFFICIENT TIDE TO PREVENT VESSELS FROV GROUNDING IN ORDER TO PREVENT DAMAGE TO BENTH C AQUATIC ORGANISMS, PERMANENT DREDGE AREAS WILL SE PROVIDED FOR BARGE MOORING ADJACENT TO TEMPORARY TRESTLE PLATMORMS.
- 13, ALL LOUD CONSTRUCTION RELATED ACTIVITIES, INCLUDING DRILLING PILES OR SHAFT CASINGS (EVEN BY VIBRATORY MEANS), SHALL BE PROHIBITED FROM SUNSICT TO SUNRISE DURING THE COMMERCIAL SHARD FISHING SEASON FROM APRIL 1 TO JUINE 15, INCLUSIVE.
- 14, PROPOSED FISHING PIER NOT SHOWN DUE TO CLARITY, FISHING PIER TO BE CONSTRUCTED AFTER CONSTRUCTION OF THE NEW BRIDGE HAS BEEN COMPLETE AND THE EXISTING BRODE HAS BEEN DEVOLUSHED, LOW-DRAFT WORK FLOATS ANTICIPATED FOR USE CONSTRUCTING THE REW FISHING PIER WILL NOT DECUPY THE RIVER CONCURRENT WITH THE BARGE BASED ACTIVITIES PRESENTED ON SC-02 THROUGH SC-05, SEE FV-01 FOR PIER DETAILS

ENVIRONMENTAL PERMIT PLANS PLAN DATE: MAY 2, 2023 HARDESTY & HANOVER, LLC E N G I N E E R I N G Amtrak® Office of Chief Engineer REPLACEMENT OF MB 106.89 . . 1501 Broodway New York, NY 10036 heet No. 13" OF 14 STRUCTURES OVER CONNECTICUT RIVER National Railroad Passenger Corporation 30th Street Station, Philadelphia, Pernsylvania 19104 BARGE OCCUPANY ZONES SC-01 gned BSH Drawn CBS Checked BSH Date 5/2/2023



BARGE STAGING FOR PIER CONSTRUCTION



NOTES

- THE PIER CONSTRUCTION SEQUENCE SHOWN IS A CONCEPTUAL BARGE BASED CONSTRUCTION SCHEME FOR IN-WATER WORK ACTIVITIES. SEE DRAWING PH-02 FOR SUGGESTED CONSTRUCTION PHASING.
- 2. BARGE PLACEMENTS ARE CONCEPTUAL AND WILL BE DESIGNED BY THE CONTRACTOR.
- 3. PIER CONSTRUCTION IS ANTICIPATED TO REQUIRE 3 GROUPS OF BARGES FOR
- 3.1. BARGE GROUP A IS ANTICIPATED FOR DRILLED SHAF CASING
- 3.2. BARGE GROUP 3 IS ANTICIPATED FOR DRILLED SHAFT REINFORCEMENT AND CONCRETE INSTALLATION
- 3.3. SARGE GROUP C IS ANTICIPATED FOR PIER CAP AND CONCRETE CONSTRUCTION
- BARGE GROUP D IS ANTICIPATED TO BE A SINGULAR GRANE BARGE THAT WILL ASSIST BOTH GROUPS B AND C
- 4. NEW SUPERSTRUCTURE ELEMENTS ARE SHOWN IN VARIOUS STATES OF COMPLETION
 BASED ON THE CONCEPTUAL SEQUENCE, MORK IS SHOWN TO PROCRESS FROM WEST TO
 BASED ON THE CONCEPTUAL SEQUENCE, MORK IS SHOWN TO PROCRESS FROM WEST TO
 BASED ON THE CONCEPTUAL SEQUENCE, MORK IS SHOWN TO PROCRESS FROM WEST TO
 BASED ON THE CONCEPTUAL SEQUENCE, MORK IS SHOWN TO PROCRESS FROM WEST TO
 BASED ON THE CONCEPTUAL SEQUENCE WITH WARRING LIGHTS,
 BOUNDATION HER CONSTRUCTION MULT GENERALLY POLICY THE PROCEDURE OF STRILLED
 SHART CASING INSTALLATION, EXCAVATION AND DRILLING, INSTALLATION OF SHART
 REK-FORCEVENT AND CONCRETE, FOLLOWED BY CONCRETE PILE CAP, PIER STEM AND
 PIER CAP CONSTRUCTION.

 12. ALL TEMPORARY WORK AND EQUIPMENT SHALL MEET THE REQUIREMENTS
 DEEP BOATING.
- STAGES ARE SHOWN TO PROGRESS FROM WEST TO EAST, BUT WILL BE SUBJECT TO THE FINAL PLAN DEVELOPED BY THE CONTRACTOR, IN ACCORDANCE WITH THE TIME OF THE YEAR RESTRICTIONS ON THE TYPE OF WORK PERMITTED AND AREAS OF THE REVER THAT WAY BE OCCUPIED. SEE DRAWNO SSC-DI AND PR-02 FOR ENVIRONMENTAL SAFECJARDS.

- THE CONTRACTOR SHALL PROVIDE MEASURES, IN ACCORDANCE WITH THE CONTRACT PLANS, SECRETICATIONS, AND ENVIRONMENTAL PERMITS TO PROTECT THE WATERWAY DURING ENCAWATION CONSTRUCTION, CONCRETE PLACEMENT AND CURING.
- "URBIDIT" CURTAINS ARE REQUIRED DURING CONSTRUCTION FOR AL. IN-WATER WORK-CAPASES OF GENERATING TURBIDITY. IN ACCORDANCE WITH ENVIRONMENTAL PERMIT APPROVALS, CT DEEP REQUIRES THAT FULL DEPTH TURR DITY CURTAINS MUST BE DEPLOYED PRIOR TO SHAFT CASING INSTALLATION.
- B. PIN PILE SUPPORTED TURBIDITY CURTAIN LIMITS SHOWN ARE APPROXIVATE. ICMPORARY RIVER SOTTOW VAPACTS DUE TO TURBIDITY CURTAIN PIN PILES SHALL BE WITHIN THE TOTAL AREA LIMITS IDENTIFIED ON SUM-OT.
- 9. ALL BARGE MOVEMENTS SHALL TAKE PLACE DURING CONDITIONS THAT MINIMIZE OR DO NOT CREATE RIVER BOTTOM DISTURBANCE. BRIVING OF BARGE SPUD PILES IS CONSIDERED A TEMPORARY IMPACT AND INCLUDED IN THE TOTAL TEMPORARY IMPACT AREAS IDENTIFIED ON SUM-OI, BARGES NOT LOCATED WITHIN LARGER PIN PILE SUPPORTED TURBIDITY CURTAIN ZONES SHALL BE PROTECTED WITH INDIVIDUAL BARGE MOUNTED CURTAINS.

- 12. ALL TEMPORARY WORK AND EQUIPMENT SHALL MEET THE REQUIREMENTS OF USOG AND DEEP BOATING.

ENVIRONMENTAL PERMIT PLANS PLAN DATE: MAY 2, 2023

HARDESTY & HANOVER, LLC E N G I N E E R I N G 1501 Broadway New York, NY 10035

REPLACEMENT OF MB 106.89 OVER CONNECTICUT RIVER BARGE BERTHING 1 - PIER CONSTRUCTION

132 OF 14 SC-02 esigned BSH Drawn CBS Checked BSH Data 5/2/2023

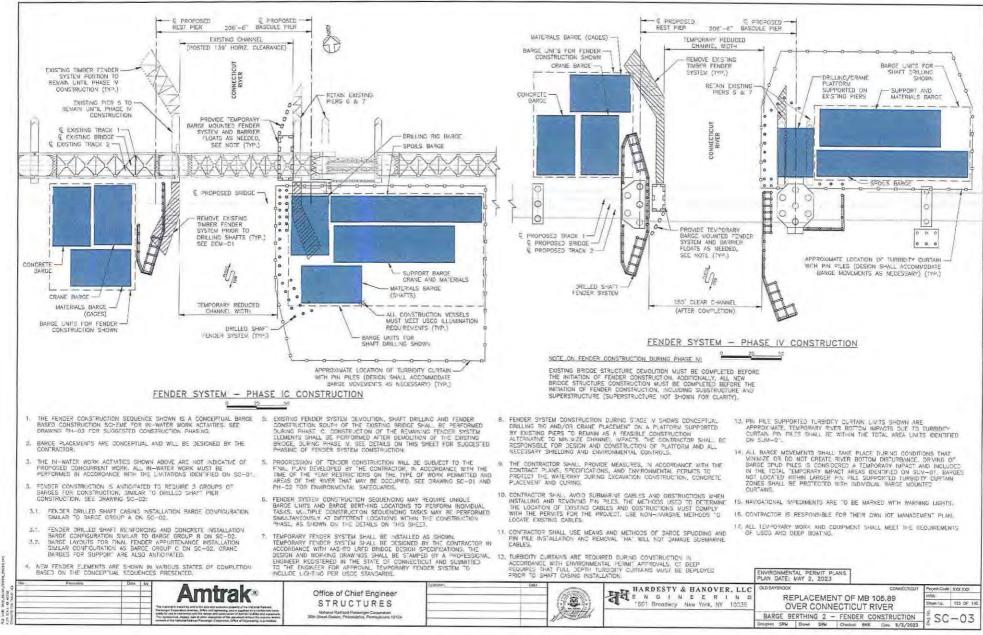
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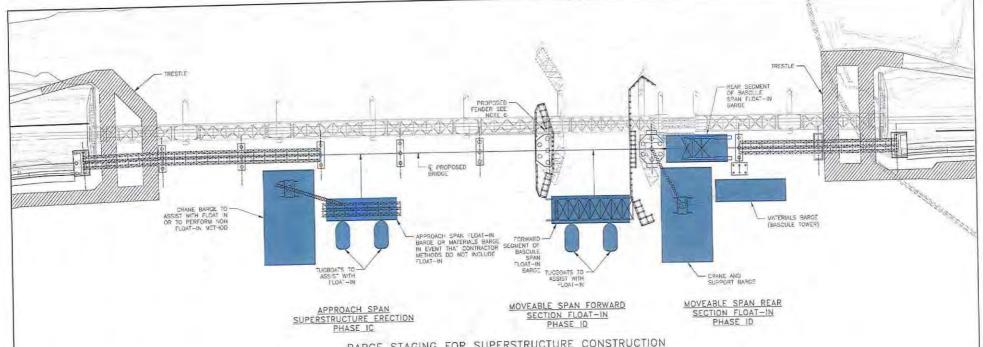
Office of Chief Engineer



STRUCTURES



SHE SC-OLTHON, SHOW DVS



BARGE STAGING FOR SUPERSTRUCTURE CONSTRUCTION

- THE SUPERSTRUCTURE CONSTRUCTION SEQUENCE SHOWN IS A CONCEPTUAL BARGE BASED CONSTRUCTION SCHEME FOR IN-WATER WORK ACTIMITIES. SEE DRAWING PH-02 FOR SUGGESTED CONSTRUCTION PHASING.
- 2. BARGE PLACEMENTS ARE CONCEPTUAL AND WILL BE DESIGNED BY THE CONTRACTOR.
- THE IN-WATER WORK ACTIVITIES SHOWN ABOVE ARE NOT INDICATIVE OF PROPOSED CONCURRENT WORK. ALL IN-WATER WORK MUST BE PERFORMED IN ACCORDANCE WITH THE LIMITATIONS DESTRICT ON SC-01.
- 4. SUPERSTRUCTURE CONSTRUCTION BARGE BASED ACTIVITIES ARE ANTICIPATED TO INCLUDE
- 4.1. DELIVERY OF APPROACH SPAN STEEL SUPERSTRUCTURE COMPONENTS.
- 4.2. BARGE BASED CRANE LIFT- N OR BARGE FLOAT-IN OF APPROACH SPAN SUPERSTRUCTURE STEEL.
- DELIVERY OF BASCULE PIER TRUNNICK TOWERS STEEL COMPONENTS, BARGE BASED CRANE ERECTION
- DELIVERY OF BASCULE SPAN REAR SECTION, CONCEPTUAL ERECTION PROCEDURE FOR REAR BOX SHOWN UTILIZES A BARGE TO FLOAT-IN THE PRE-ASSEMBLED STEEL COMPONENTS TO THE REAR OF PIER 7 AND LONGTUDINAL SLIDE THE COMPONENTS INTO PLACE ON THE TRUNNIGH TOWERS.
- 4.5. FLOAT-IN OF THE BASCULE SPAN FORWARD TRUSS SECTION, TEMPORARY NAVIGATION CLOSURE REQUIRED FOR THIS ACTIVITY, SEE NOTES THIS SHEET.
- NEW SUPERSTRUCTURE ELEMENTS ARE SHOWN IN VARIOUS STATES OF COMPLETION BASED ON THE CONCEPTUAL SEQUENCES PRESENTED. A FULLY CONSTRUCTED FENDER SYSTEM IS SHOWN IN THE PLAN VIEW ABOVE, WONEVER MOTE THAT DURING SUPERSTRUCTURE ERECTION THE FENDER WILL ONLY BE PARTIALLY COMPLETE, SEE SC-07. FOR DETAILS.
- PROGRESSION OF SUPERSINCTURE CONSTRUCTION WILL BE SUBJECT TO THE FINAL PLAN DEVELOPED BY THE CONTRACTOR, IN ACCORDANCE WITH THE TIME OF THE YEAR RESTRICTIONS ON THE TYPE OF WORK PERMITTED AND AREAS OF THE RIVER THAT MAY BE OCCUPIED, SEE DRAWING SC-CT AND PH-D2 FOR ENVIRONMENTAL SAFEGUARDS.

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- THESE PLANS DO NOT IDENTIFY AREAS SUITABLE FOR OFFSITE SPAN ERECTION. THE CONTRACTOR SHALL DETERMINE THE METHODS OF CONSTRUCTION AND SHALL MEET ALL FEDERAL, STATE, AND LOCAL LAWS PERFANNO TO THE CONSTRUCTED IN THIS MANNER.
- THE CONTRACTOR SHALL PROVIDE MEASURES, IN ACCORDANCE WITH THE CONTRACT PLANS, SPECIFICATIONS, AND ENVIRONMENTAL PERMITS TO PROTECT THE WATERWAY DURING EXCAVATION CONSTRUCTION, CONCRETE PLACEMENT AND CURING.
- TURBUTY CURTANS ARE REQUIRED DURING CONSTRUCTION IN ACCORDANCE WITH ENVIRONMENTAL PERMIT
 APPROVALS, OF DEEP REQUIRES THAT FULL DEPTH TURBUTY CURTAINS MUST BE DEPLOYED PRIOR TO
 SHAFT CASING INSTALLATION.
- 10. PIN PLE SUPPORTED TURBIDITY CURTAIN LIMITS SHOWN ARE APPROXIMATE, TEMPORARY RIVER BOTTON IMPACTS DUE TO TURBIDITY CURTAIN PIN PILES SHALL BE WITHIN THE TOTAL AREA LIMITS DENTIFIED ON
- 1). ALL BARGE WOVEMENTS SHALL TAKE PLACE DURING CONDITIONS THAT MINUVIZE OR DO NOT CREATE RIVER BOTTOM DISTURBANCE, DRIVING OF BARGE SPUD PLES IS CONSIGERED A TEMPORARY IMPACT AND INCLUDED IN THE TOTAL TEMPORARY IMPACT AREAS IDENTIFIED ON SUM-01, BARGES NOT LOCATED WITHIN LARGER PIN PLE SUPPORTED TURBURY QUITAIN ZONES SHALL BE PROJECTED WITH INDIVIDUAL BARGE WOUNTED CURTAINS.
- 12 NAVIGATIONAL IMPEDIMENTS ARE TO BE MARKED WITH WARNING LIGHTS.
- 13, CONTRACTOR IS RESPONSIBLE FOR THEIR OWN ICE MANAGEMENT PLAN.

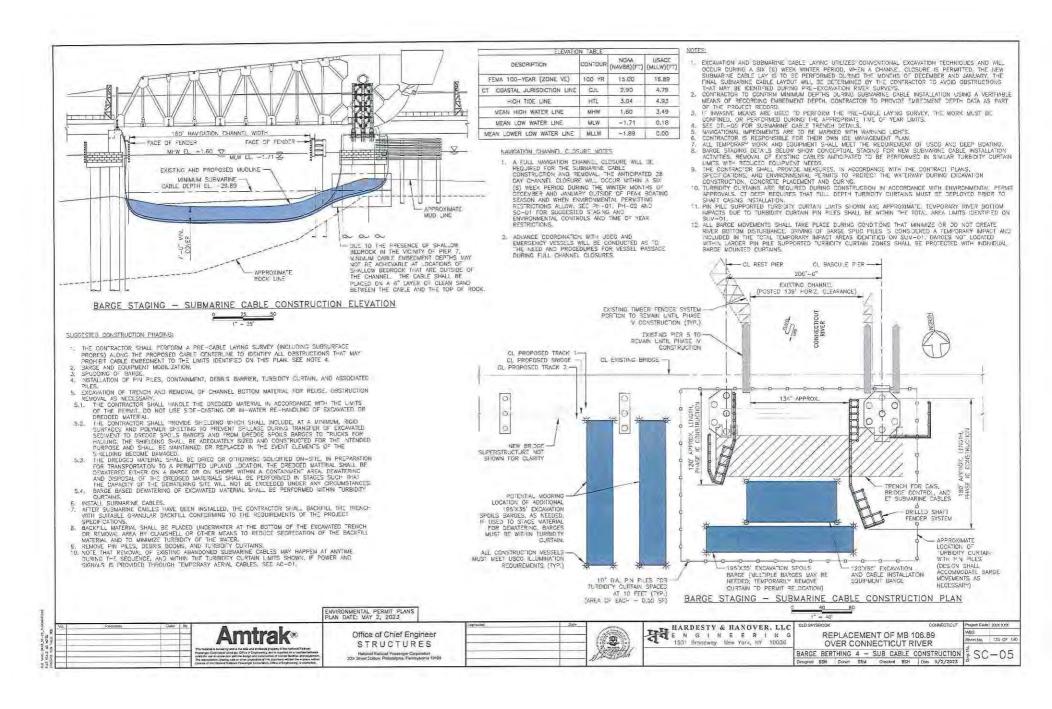
Notional Raticos Possenger Corporation 30th Street Station, Philadebnia, Ponntylvania 16104

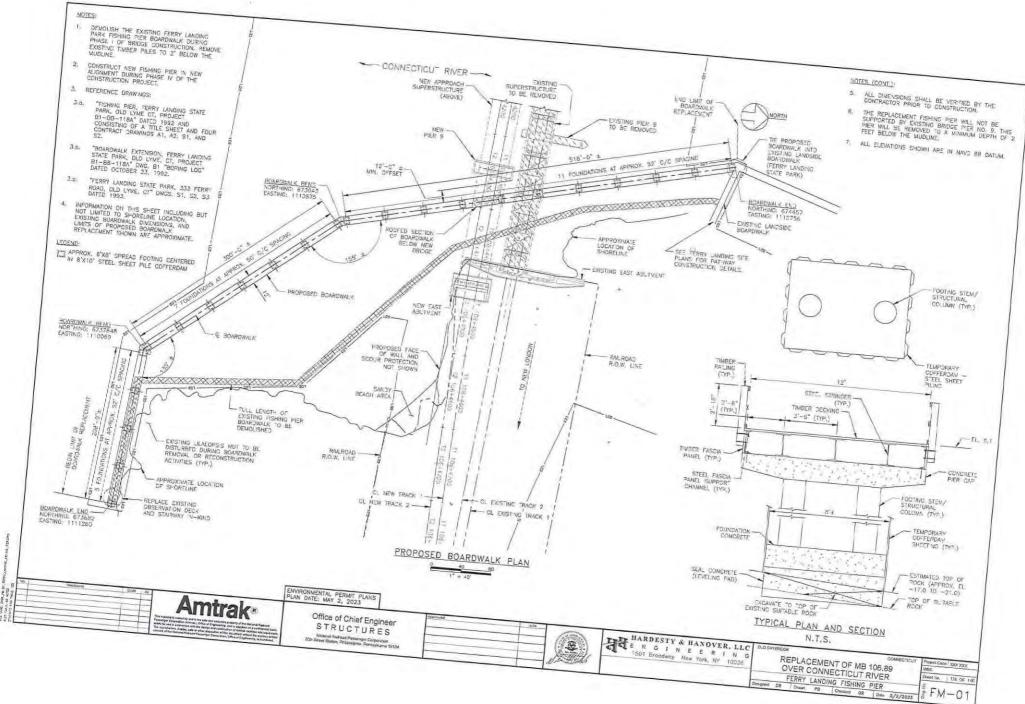
14, ALL TEMPORARY WORK AND EQUIPMENT SHALL MEET THE REQUIREMENTS OF USCS AND DEEP BOATING.

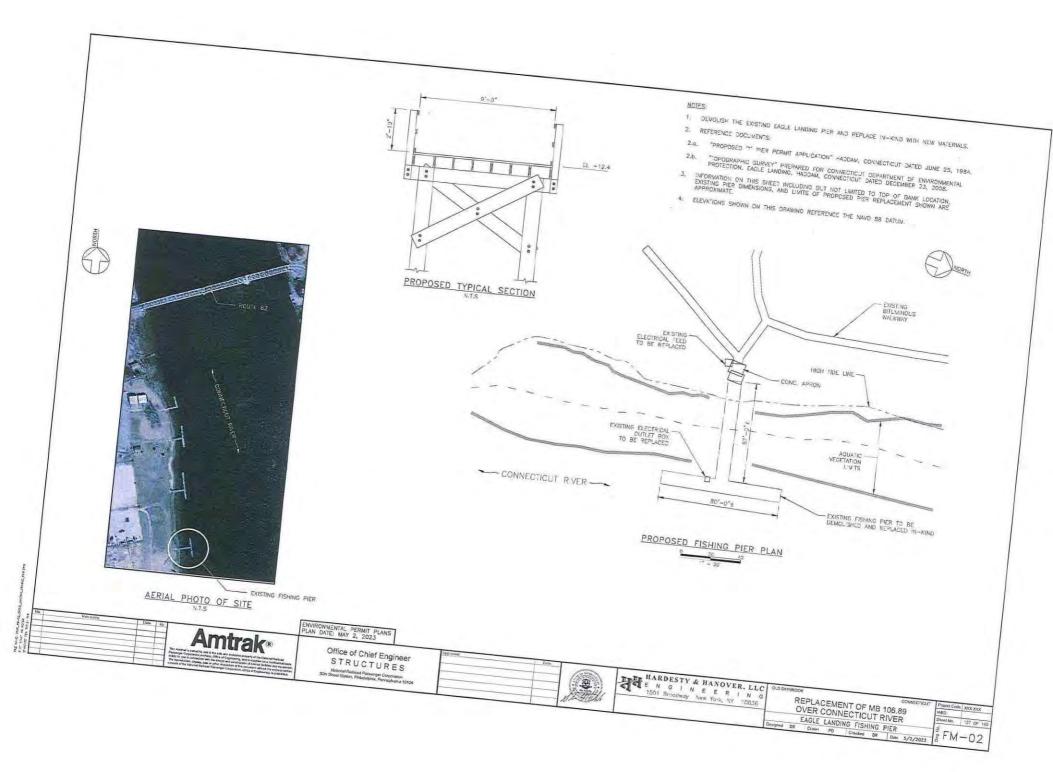
NAVIGATION CHANNEL CLOSURE NOTES

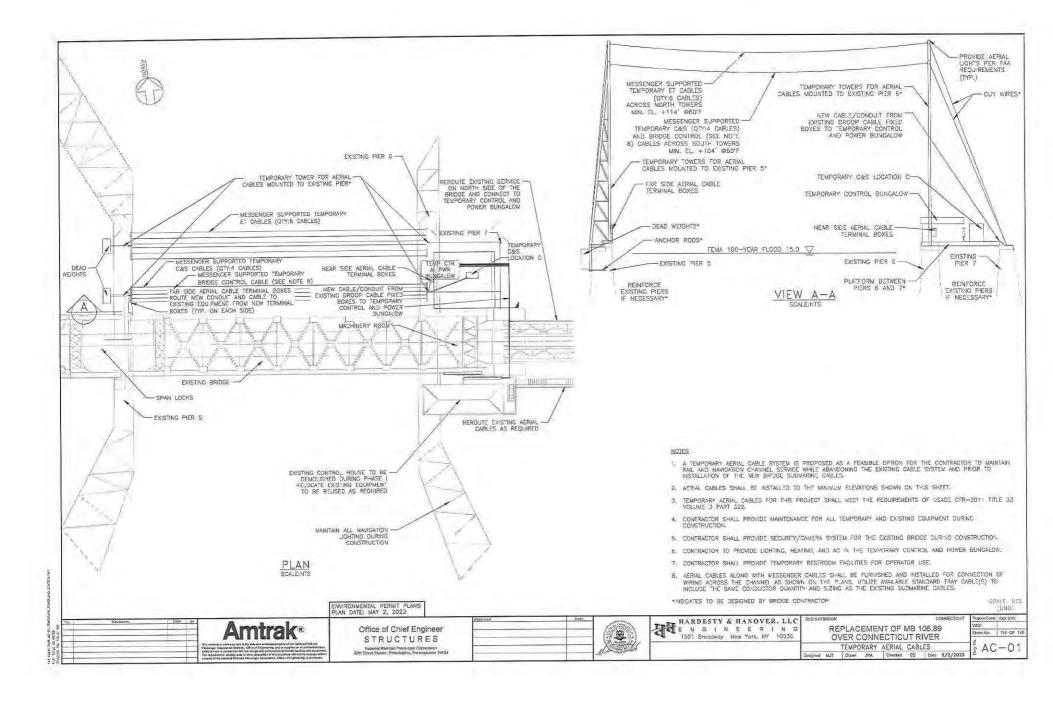
- A FULL MAYIGATION CHANNEL CLOSURE WIL BE REQUIRED FOR THE FLOAT-IN OF THE BASCULE SPAN FORWARD SECTION. THE ANTICIPATED TO DAY CHANNEL CLOSURE WILL OCCUR DURING THE OFFICE PROPERTY OF SECTION CONTROL THE OFF-PEAK BOATING SEASON.
- WORK TO ENABLE THE MOVABLE SPAN TO ROTATE TO THE OPEN POSITION WITHIN TO DAY'S IS EXPECTED TO REQUIRE FULL DAYS AND NIGHTS, NIGHTHME ILLIMINATION WILL BE RECONTED AND SHALL NOT BE SCHEDULED DURING SPENIG MIGRATORY PERFODS WHEN LIMITATIONS ON ARRIPICAL LIGHTHME ARE IN FEFECT.
- ADVANCE COORDINATION WITH USCS AND EMERCENCY VESSELS WILL BE CONDUCTED AS TO THE NEED AND PROCEDURES FOR VESSEL PASSAGE DURING FULL CHANNEL CLOSURES.

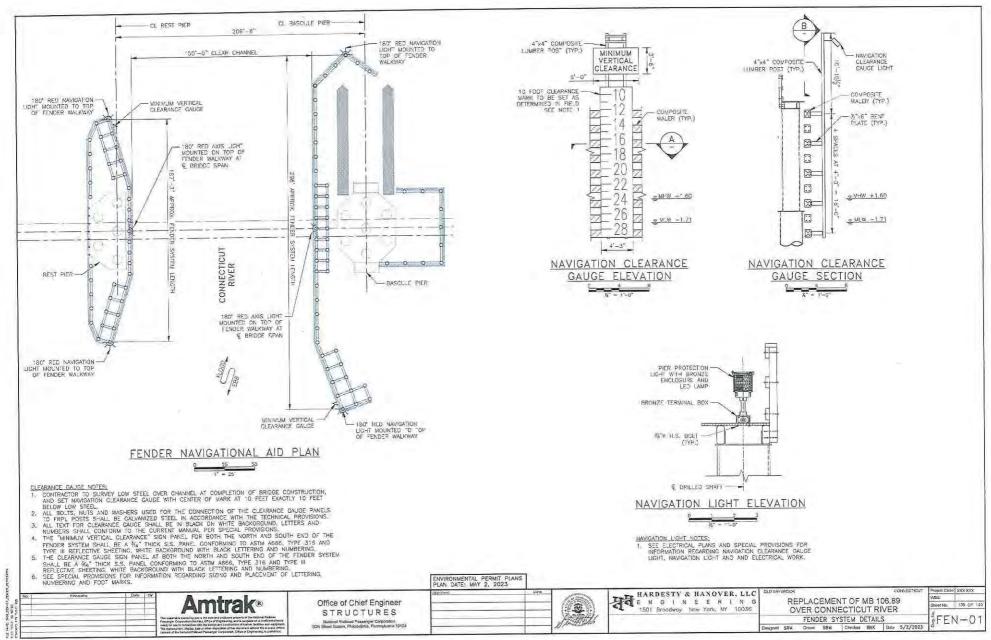
ENVIRONMENTAL PERMIT PLANS PLAN DATE: MAY 2, 2023 yes Code 300X XXX HARDESTY & HANOVER, LLC E N G I N E E R I N G 1501 Broadway New York, NY 10036 REPLACEMENT OF MB 106.89 meet No. 134 OF 140 Office of Chief Engineer OVER CONNECTICUT RIVER STRUCTURES BARGE BERTHING 3 - SUPERSTRUCT, CONSTRUCT. SC-04 good BSH Drawn CBS Checked BSH Date 5/2/2023

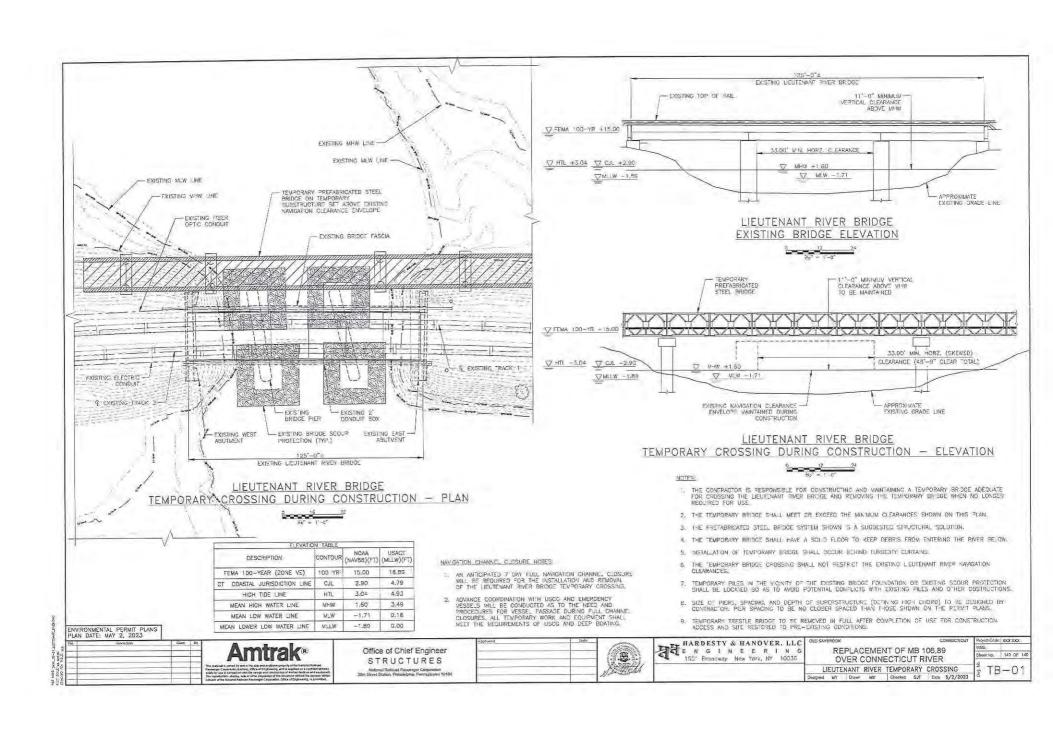




















DRAWING NO.	TILE
G-100	COVER SHEET
G-002	GENERAL NOTES AND LEGEND
C-100	EXISTING CONDITIONS PLAN
C-101	PROPOSED GRADING PLAN
C-102	PROPOSED CONSTRUCTION ACCESS, SITE PREPARATION AND STAGENG/LAYDOWN PLAN
C-103	PLANTING PLAN
C-104	PROPOSED CULVERT GRADING FLAN
C-200	SECTIONS AND PROFILES
C-300	EROSION AND SEDIMENT CONTROL NOTES & DETAILS





Hardesty & Hanover, LLC 850 Bear Tavern Road, Suite 206 West Trenton, NJ

MAMTRAK"

Replacement of Amtrak Connecticut River Bridge (MP 106.89) Tidal Marsh Mitigation Design 17 Shore Road Site

Old Lyme and Old Saybrook, CT

2023.04.07 PROJECT NUMBER: 195602497





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PEHERIES/WILDLIFE HARITAT NICIES

- ALL ON-SITE CONSTRUCTION STAFF WILL ATTEND TRAINING BY AN OUALIFED BY VIRONMENTAL SCIENTIST AND RECEIVE A COPY OF FINAL WILDLIFE PROTECTION PLAN PRIOR TO BEGINNING WORK ON SITE.
- & QUALIFIED ENVIRONMENTAL SCIENTIST WILL BE PRESENT WHEN WORK IS
- SHOULD STATE THE CONSTRUCTION ACTIVITIES MUST BEGIN FRIGHT OF MAY I AND CONTRIBE WITHOUT PROCESSED RESIDENCIAL THROUGH ADOLD 31 JR. A SIGHERAND HOUSE CONTRIBED CONSTRUCTION ACTIVITY DOES NOT SMIT PROPER TO MAY 1, THEN A TIME OF TEAR RETINICION WILL AFREY, AND WORK MAY NOT SECHOLUMN. STEPFAMED TO MAY 1, THEN A TIME OF TEAR RETINICION WILL AFREY, AND WORK MAY NOT SECHO WILL AFREY. AND WORK MAY NOT SECHO WILL AFREY AND THE MEDICAL THROUGH AND THE TEAR OF THE MEDICAL THROUGH AND THE MEDICAL THROUGH AND THE MEDICAL THROUGH AND THE MEDICAL THROUGH AND THROUG WITHOUT THE APPROVAL OF CIDED! TO PROTECT LEAST BITTERN AND SALTMARS'S SHARP-TAILED SPARROW.
- IF BALD EAGLE MESTING ACTIVITY IS OBSERVED WITHIN 400 FT FROM CONSTRUCTION ACTIVITY ALL CONSTRUCTION MUST STOP UNTIL MESTING ACTIVITY HAS CEASED.
- 5. CONSTRUCTION WITHIN FIDAL CREEKS OR SIMILAR CHANNELIZED AQUATIC HABITAT IS PROHISTED, FROM NOVEMBER 1- MARCH 31 TO PROTECT OVER-WINTERING STATE-LISTED TURLES.
- WORK LIMITS MUST BE ENGLOSED BY A WILDLIFE BARRIER SYSTEM BETWEEN APPRIL AND OCTOBER 31 IE.G., SET FENCE OF ELEVATED WOR APRIL 74 MIN OUT OBER 31 (BC), SILL THEN OF SELVATED WORK SHEARCH TO REPORT HE HIP SYSTATE STITE UTILIS. THE DOLLARD WORK CLUSTS ARE TO BE INSPECTED DAY BY THE FAIR OF DOSTRUCTION STAFF OR BENNISHMENT MONITORS FOR THE PRESENCE OF STATE SHEARCH STAFF OF THE STAF PONYAGE MONITOR AND AMERIC REPRESENTATIVE DEFICIENCIES IN THE WILDLIFE BARRIER ARE TO SE PROMPTLY REPAIRED.
- 2. SPEED UMF ALONG ACCESS ROADS IS NOT TO EXCEED 10 MPH.
- 8. REFUELING OR HANDUNG OTHER SID-TONIC LIQUIDS IS PROHISITED IN THE VICINITY OF LOW MARSH, RIVERBANKS, TIDAL CREEKS, OR DITCHES.
- 9. INACTIVE OSPREY NESTS MAY BE REMOVED FROM SEPTEMBER! MARCH II CIDEER IS TO BE NOTIFIED PRIOR TO REMOVING ANY OSPREY NEST.
- 10. TREE CLEAPING IS PROHIBITED FROM JUNE 1 JULY 31 TO PROTECT NORTHERN LONG-EARED BATS
- 1). APPROPRIATE SOIL EFOSION, SEDIMENT, AND TURBUTY CONTROLS WILL BE USED AND AMMINIANCE DEVENIA. CONSTRUCTION: AND AFEAS CAPABLE OF PRODUCING DIREATEFTHAN MINIMAL LYBRIDITY OR SEDIMENTATION WILL BE DONE DURING PERIODS OF LOW- OR HON-LOW. TO PROTECT FISHERY RESOURCES.
- 12. WORK THAT PRODUCES GREATER THAN MINIMAL TURBIDITY OR COMPUTATION /DOME OUTSIDE OF TURRIDITY CURTAINS OF TOBIOS OF DE SING OF DE SANGER MOST DESIRED SO TO PROTECT
- 13. EROSION AND SEDIMENT CONTROL MATERIALS CANNOT CON! AIM PLASTIC OR MONOFILAMENT MESHES TO REDUCE POTENTIAL WILDLIFE **ENTANGLEMENT**

GENERAL NOTES

- INFORMATION BEPICTED ON THESE PLANS DOES NOT CONSTITUTE AN AGREGATION TO ACCESS OR WORK ON PROPERTIES DEPICTED ON THESE PLANS, ACCESS PERMISSION IS THE MESPONSIBILITY OF THE PROJECT OWNER AND MUST SE CONFIRMED BY THE CONTRACTOR.
- 2. EXISTING UTILITY EASEMENTS ARE NOT DEPICTED
- TOPOGRAPHIC AND STE FEATURES AREBASED UPON SUPVEYS CONDUCTED BY AVAITMEN COUCH & ASSOCIATES, LLC.
- 4. ALL CONTOURS AND ELEVATIONS ARE PRESENTED IN FEET AND REFER TO THE NORTH AMERICAN VERTICAL DATUM OF 1988 (NAVD 1988).
- 5. NORTH ARROW, BEARINGS, AND COGRDINATES ARE BASED UPON THE HORTH AMERICAN DATUM OF 1983 (NAB 1983) CONNECTICUT STATE PLANE COORDINATE SYSTEM FEET UNITS.
- A FASTING CONTOURS ARE COMPUTER-CENERATED INTERPOLATIONS. EDITED TO GENERALLY CONFORM TO RELD OBSERVATIONS.
- 7. INFORMATION REGARDING THE LOCATION OF EXISTING UTILITIES IS BASED. INFORMATION REGARDING THE COCATION OF EXTINCE UNITED IS PAREL. UNDNA VANLABLE REGORMATION, MAY EN INCOMPUTE, AND WHERE SHOWN SHOULD BE CONDIDERTO A PROSUMATE, THE LOCATION OF FALL PSTITLING UNITED SHALL BE CONSIDERED PRINCE OF EXCHANGE OF CONSTRUCTION, CALL THE CONSIDERIUM CALL BEFORE YOU DID! CHIEFE, ALL UNITED LOCATIONS THAT ON JOIN ANAFORM YESPICAL, OR HORIZONIAL CONTROL SHOWN ON THE PLANS SHALL DAVEDIATELY BE BROUGHT TO THE ATTENTION OF THE ENGINEER FOR RESOLUTION
- B. STANTEC ACCEPTS NO RESPONSIBILITY FOR THE ACCUPACY OF MAPS NO DATA THAT HAVE BEEN SUPPLIED BY OTHERS.
- CONTRACTOR SHALL VERBY CRETICAL ELEVATIONS AND GRADES IN THE
- IQ INCOMPRACTOR DESERVES FIELD CONDITIONS WHICH VARY SIGNIFICANTLY FROM WHAT IS CHOWN ON THESE PLANT, THE CONTRACTOR SHALL IMMEDIATELY NOISY THE OWNER AND ENGINEER FOR RESOLUTION OF THE CONFUCING INFORMATION.
- 11. EXCEPT WHERE SPECIFICALLY NOTED, THE LOCATIONS AND INFORMATION ABOUT UNDERGROUND PIPES, UTILITIES OR OTHER VOBLE FIELD EVIDENCE AND ARENOT REPRESENTED AS BEING EXACT OR COMPLETE.

- 12. PRIOR TO MOSILIZING TO THE PROJECT SITE, CONTRACTOR SHALL GIVE PRIOR TO MOBILINES TO THE PROJECT SITE, CONTRACT SITE STATE EVEN ABEQUATE ADVANCE HOTICET TO THE CONNECT COLOR AND DIO" CENTER, THE TOWN OF OLD YIME, AND PRIVATE UTILITY COMPANIES. TO ALLOW FOR FIELD LOCATION OF FACULTIES IN THE VICTUITY OF THE PPO IECT
- 13. COORDINATE WITH AMTRAG AND OBTAIN APPROVALS FOR ACCESS WITHIN PAILPOAD PIGHT-OF-WAY.
- 14. CONTRACTOR SHALL MISTAUL TEMPORARY MEASURES AS NECESSARY TO ADEQUATELY PROTECT AND PRESERVE SURED UTILITIES AND AVERASTRUCTURE WITHIN AND ADJACENT TO PROJECT WORK AREAS.
- CONTRACTOR IS RESPONSIBLE FOR EVALUATING THE CONDITION OF CONTRACTOR IN REPORTS AND INSTALLATION OF TEMPORARY MEASURES FOR USE OF ROADS AND CULVER'S DURING CONSTRUCTION
- HERASTRUCTURE AND APPUILIFIANCES IF DAMAGED AS A PART OF CONSTRUCTION OF THIS PROJECT.
- 17. CONTRACTOR SHALL IMMEDIATELY REPORT ANY DAMAGE TO EXISTING PIPES, UNLITES, OR STRUCTURES TO THE OWNER AND ENGINEER, AND OSTAN DIRECTIONS AS TO REPAIR, REPLACEMENT OR ABANDONMENT.
- 18. REFERENCE *2002 CONNECTICUT GUIDELINES FOR SOR EROSION AND SEDIMENT CONTROL" AS PREPARED BY THE CONNECTICUT COUNCIL ON SCIL AND WATER CONSERVATION IN COOPERATION WITH THE VECTICAL DEPARTMENT OF ENVIRONMENTAL PROTECTION, OF
- 19. THE CONTRACTOR SHALL RECORD THE MEASUREMENTS, DEPITHS, DIMERICANS, MATERIALS, RELD CONDITIONS, AND OTHER PREPRISE PLAYS ASSESSED, AND STRUCTURES RECOMPRISED DURING THE WORK, BOTH EXISTING AND CONSTRUCTION, CONTRACTOR SHALL DRIMERICAN DO CONTRACTOR SHALL DRIMERICAN DO CONTRACTOR SHALL DRIMERICAN DO CONTRACTOR SHALL DRIMERICAN DO CONTRACTOR SHALL DRIMERICAN DRIVEN SHALL DRIVEN RECORD TO COMPANIENCY OF THE WORK.
- 30. CONTRACTOR IS RESPONSIBLE FOR WATER MANAGEMENT DURING COMPACTOR IF PERFORMED FLOWNER MANAGEMENT MANAGEMENT PLANT OF CONSTRUCTION FLOW PROPERTY OF A MATERIAL MANAGEMENT PLANT OF EAPPROVED BY THE BUGINEER AND OWNIER, WHICH SHALL MANAGEMENT AND OWNIER, WHICH SHALL MANAGEMENT PLANT OF CONTROL AND PROCEDURE A SOCIATION WITH HOCHWART AND REQUEST MANAGEMENT WITH HOCHWART POWNIER AND REQUEST MANAGEMENT OF CONTROL OF ANAGEMENT OF CONTROL OT CONTROL OF CON
- 21. CONSTRUCTION EQUIPMENT CANNOT BE OFFRATED ON THE MARSH CONSTRUCTION CONTROLLED RESOURCE AREAS EXCEPT AS APPROVED IN PROJECT FEMALS, CONSTRUCTION EQUIPMENT THAT IS APPROVED FOR OPERATION ON THE MARSH SUPPLACE CANDOT BE OPERATED WHEN THE MARSH SUPFACE CANDOT AND APPROVED FOR THE MARSH SUPFACE CANDOT BE OPERATED WHEN THE MARSH SUPFACE IS TIDALLY INJUNDATED.
- 22. DURNIG ALL NON-WORE PERIODS EXCEEDING A DURATION OF 24 HOURS, CONTRACTORS EQUIPMENT SHALL BE DEMOBILIZED AS SPECIFIED IN PROJECT PERMITS.
- 21, ALL TEMPORARY AND PERMANENT MATERIA'S FOR E ONSTRUCTION SHALL BE CLEAN AND FREE OF DEBPS.
- 24. CONTRACTOR SHALL THOROUGHLY WASH AND CLEAN EQUIPMENT PRIOR TO MOSELIATION TO THE PROJECT SITE TO AVOID INTRODUCTION OF INVASIVE PLANT PROPAGULES TO THE PROJECT SHE
- 25. CONTRACTOR'S EQUIPMENT SHALL BE SOUND, CLEAN, AND LEAK FREE PRIOR TO MOBILITING TO THE PROJECT SITE AND SHALL BE MAINTAINED IN LEAD-FREE CONDITION WHILE ON SITE.
- A COMPLETE SPLL KIT SHALL SE MARITAINED AT THE PROJECT AREA. AU-CONSTRUCTION EQUIPMENT SHALL HAVE A MOUNTED THE EXTINGUISHER.
- 27. PERMETER EROSION AND SEDIMENT CONTROLS SHALL BE INSTALLED PRIOR TO COMMENCING FLISTHER WORK AND SHALL BE MAINTAINED. THROUGHOUT THE DURATION OF WORK.
- 28. ON-SIE REFUELING SHALL OCCUP ONLY AS ALLOWED BY PROJECT PERMITS. A DRIP PAN OR ASSORBEST PADS SHALL BE USED DURING ALL
- ISING OPERATIONS. 29. ALL MATERIAL REMOVED FROM THE PROJECT SITE SHALL BE DISPOSED OF IN COMPLIANCE WITH ALL APPLICABLE PEGLI, ATIONS
- 3D. WORK SHALL COMPLY WITH ALL APPLICABLE ENVIRONMENTAL REGULATIONS AND PROJECT PERMIT CONDITIONS.

GENERAL CONSTRUCTION SEQUENCE

THE GENERAL CONSTRUCTION SEQUENCING SHALL SE AS DESCRIBED RELOW

- I. PRE-MOBILITATION
- LI. DEVELOP WORK PLANS REVIEW DESIGN REVIEW PERMIS DEVELOP WORL PLANS
- CONDUCT HERBICIDE CONTROL OF COMMON REED IPHRAGMITES
 AUSTRALIS IN TRANSPLANT AREA AT LEAST 66 WEEKS PRIOR TO
 EQUIPMENT MODILIZATION
- 2. FIELD DEMARCATION OF RESOURCES AND WORK AREAS
- 2.1. IDENTIFY AND DEMARK SENSITIVE PLANT COMMUNITIES TO SE DEMARK BOUNDARIES OF TEMPORARY WORK AREAS
- DENARY BOUNDARES OF TEMPORARY WORK AREAS

 1. STAGING AREAS

 2. ACCESS POUTS

 DENARY PENNANENT WORK AREAS (STAGED NASED ON FINAL SEQUENCE OF WORK)

 1. CULVERT WORK AREA
- 2.3.2 DITCH PLUGGING AREA
- ZZGODA ONITRIS ED SIDE DE EXISTINO ACCESS TREVILLO CESOPORE DAN DAOS 2.3.3
- MITIGATION AREA ON SOUTHEAST SIDE OF EXISTING ACCESS ROAD AND PROPOSED CULVERT

3. MOBILIZATION

- INSTALL TURNUE EXCLUSIONARY BARRIER MEASURES AND CONDUCT WORKSITE SWEEP FOR TURNUES 24.
- ESTABLISH STAGING AREAS AND ASSOCIATED EPOSION AND
- ESTABLISH TEMPORARY ACCESS ROUTES AND ASSOCIATED EROSION AND SEDIMENT CONTROLS ESTABLISH PROSION AND SEDIMENT CONTROLS ADJACENT TO PERSANENT WORK AREAS
- 4.1. DAILY PLANNING AND COORDINATION IS.G., MONITOR WEATHER FORECASTS!

- FORECASS

 DALL MODELLA TION-DESIGNATION OF CONSTRUCTION

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 CONSIDER THE CONSTRUCTION THE THE SAME

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 CONSTRUCTION

 CONSTRUCT 4.4. 4.6.
- COMPLETION OF CULVERY CONSTRUCTION RESTORATION OF CULVERY WORK AREA
- RECEIPT OF DWNER'S ACCEPTANCE PRIOR TO COMPLETION OF DEMOBILIZATION FROM WORL AREA
- DEMOBILIATION FROM WORK AREA

 4.1). BISTALLATION OF TEMPORAYE BAPBERS 1 TO PREVENT IDAA.
 BISTALLATION OF TEMPORAYE BAPBERS 1 TO PREVENT IDAA.
 BISTALLATION OF TO CONSTRUCTION OF MICARION AREA
 SOUTHERAT FROM ACCESS ROAD AND CULVEST.

 4.12. DEMOBILIATION FROM CILLYETS WORK AREA.
 5. MITIGATION AREA MORTHWIST FROM ACCESS ROAD AND CULVEST.
- DALY PLAINING AND COORDINATION (E.G., MONITOR WEATHER
- PORECASTS, TIDES

 DAILY MOBILIZATION/DEMOBILIZATION OF CONSTRUCTION
 TOURMENT FROM WORK AREA
 CONDUCT PRE-CONSTRUCTION TURTLE SWEEP
- INSTALL AND WAINTAIN OIL BOOMS (ONGOING
- MONTORNIC AND MAINTENANCE OF EROSION AND SEDIMENT
- MONITORING AND MAINTENANCE OF WATER MANAGEMENT
- ESTABLISH TEMPORARY ACCESS ROUTES
 CONSTRUCTION
- PLUG DITCH
- 5.8.2 CONTROCKON TO ACCHANGE

 1. RECEPT CONNECTS ACCESS ACCESS TO CONVESTION OF

 5.10. RELAYER EMPORARY ACCESS ACCUSES IN PRIZED A AREAS AND

 8510'S REVALUE EMPORARY ACCESS ACCUSES IN PRIZED A AREAS AND

 8510'S REVALUE EMPORARY ACCESS ACCUSES IN PRIZED A AREAS AND

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 5.11. HEAVINE SECOLIO AND EMPORARY COURS OF

 AMBRICATION AREA COURTED TROCK ACCESS FOXO AND CULVERY

- DAILY PLANNING AND COORDINATION (E.G., MONTIOR WEATHER FORECASTS, TIDES)
- FORECASTS, TDDIS)
 DAILY MOSILIZATION/DEMOSILIZATION OF CONSTRUCTION
 EQUIPMENT FROM WORK APEA
 CONDUCT PRE-CONSTRUCTION TURTLE SWEEP.
- WITHU AND MAINTAIN OIL BOOMS IONGOING
- MONEORING AND MAINTENANCE OF EROSION AND SEDIMENT CONTROLS (ONGOING)
- MONITORING AND MAINTENANCE OF WATER MANAGEMENT SYSTEMS (GNGOING)

- MOTION STATE AND CONTROL OF THE CONTROL ON THE CONTROL OF THE

- COMMISSIONING
- COMMISSION MITIGATION STIT
- REMOVE BARRIERS FROM ACCESS ROAD AND AMTRAK RAILROAD EMBANKMENT CULVERIS
- MONEOPING AND MAINTENANCE
- HHAL DEMOBILITATION
- B(). RECEPT DE OWNERS ACCEPTANCE PRIOR TO INITIATING FINAL
- EFERENCE PROJECT CONSTRUCTION AGREEMENT AND PERMITS

Legend

- EXISTING 5' MAJOR CONTOUR ---- EXISTING 1' MINOR CONTOUR

____ EXISTING PROPERTY LINE

---- EXISTING RIVER EDGE (APPROX.)

MEAN LOW WATER - MEAN HIGH WATER - 160

- COASTAL JURISDICTION LINE - CL - HIGH TIDE LINE FEMA 100YR LINE

EXISTING OVERHEAD LITILITY C --- EXISTING COMMUNICATION LINE

EXISTING ELECTRIC LINE

- r/o- EXISTING FIBER OPTICS - EXISTING METAL FENCE

____ EXISTING GRAVEL DRIVE EXISTING STONE WALL ____ EXISTING DRAINAGE SWALE

PROPOSED DRAINAGE SWALE ____ LIMITS OF CONSTRUCTION

CONSTRUCTION ACCESS ROUTE

SEDIMENT CONTROL BARRIER - o - OIL BOOM PHASED FLOW DIVERSION

SEDIMENT CONTROL BARRIER TEMPORARY STAKED TURBIDITY CURTAIN

TEMPORARY COFFER DAM WETLAND FLAG

LIMITS OF DISTURBANCE

LIMIT OF TIDAL HABITAT RESTORATION - SOUTHEAST MITIGATION AREA



Marihampion, AA 01060 U.S.A. Tel: 413,367,4776

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Client/Projec

Amtrak, Hardesty & Hanover 17 Share Road Millipation Site

Replacement of Amtrak Connecticut River Bridge (MB 106.89)

GENERAL NOTES AND LEGEND

Old Saybrook and Old Lyme, Connecticul

195602497

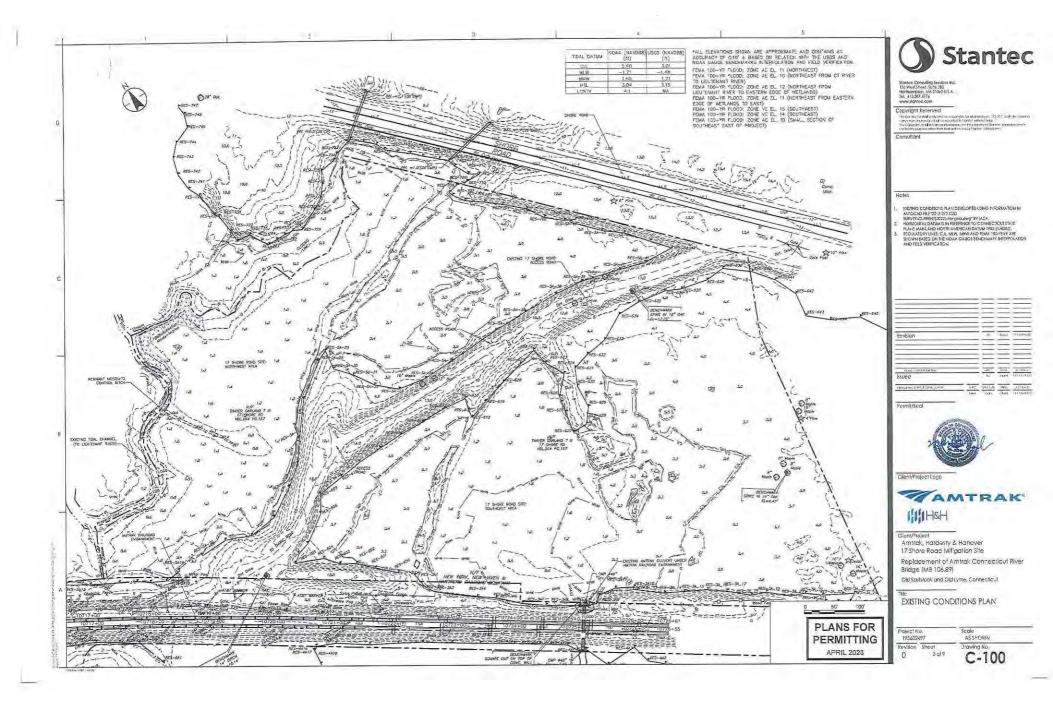
PLANS FOR

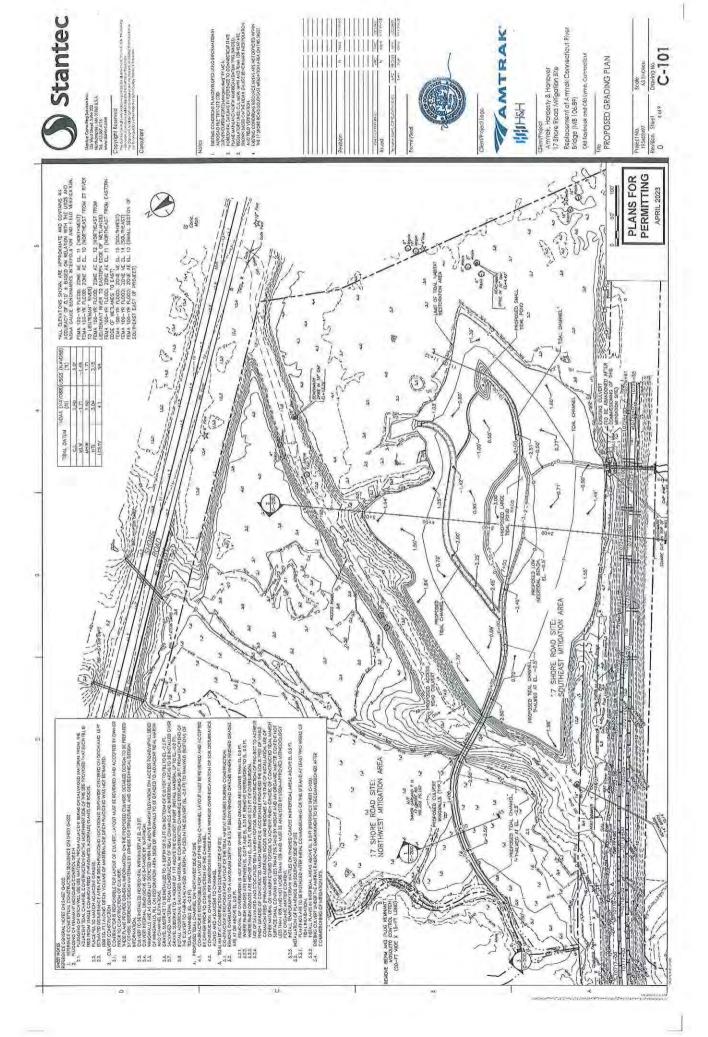
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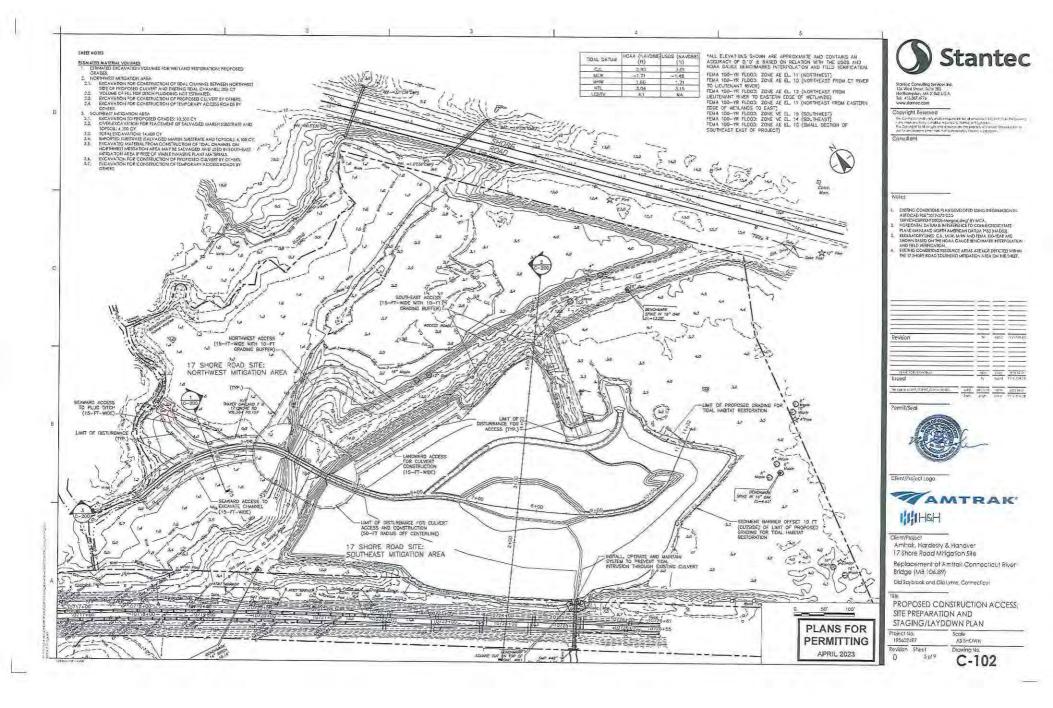
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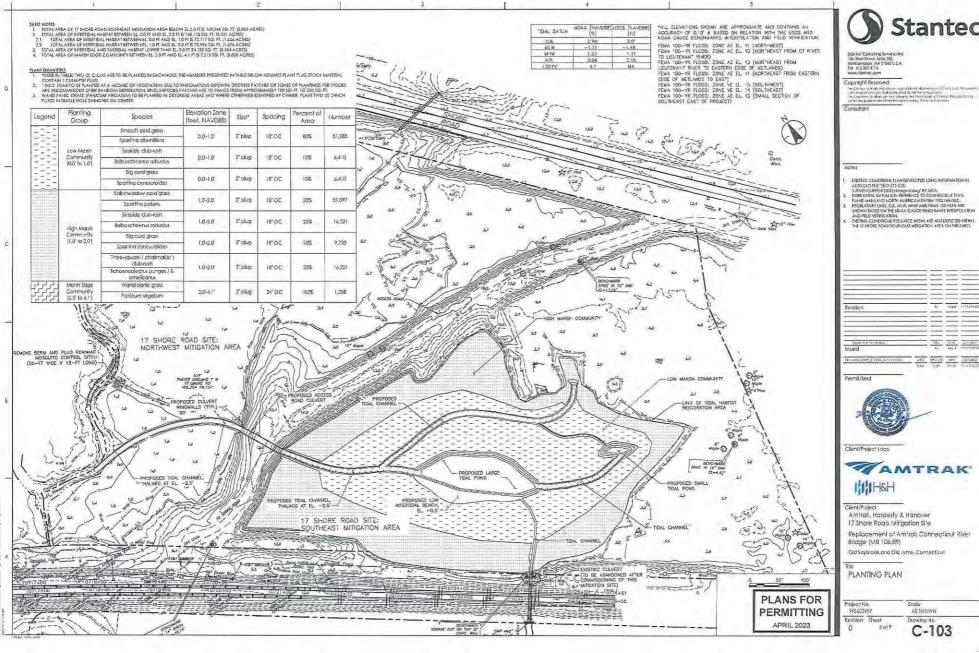
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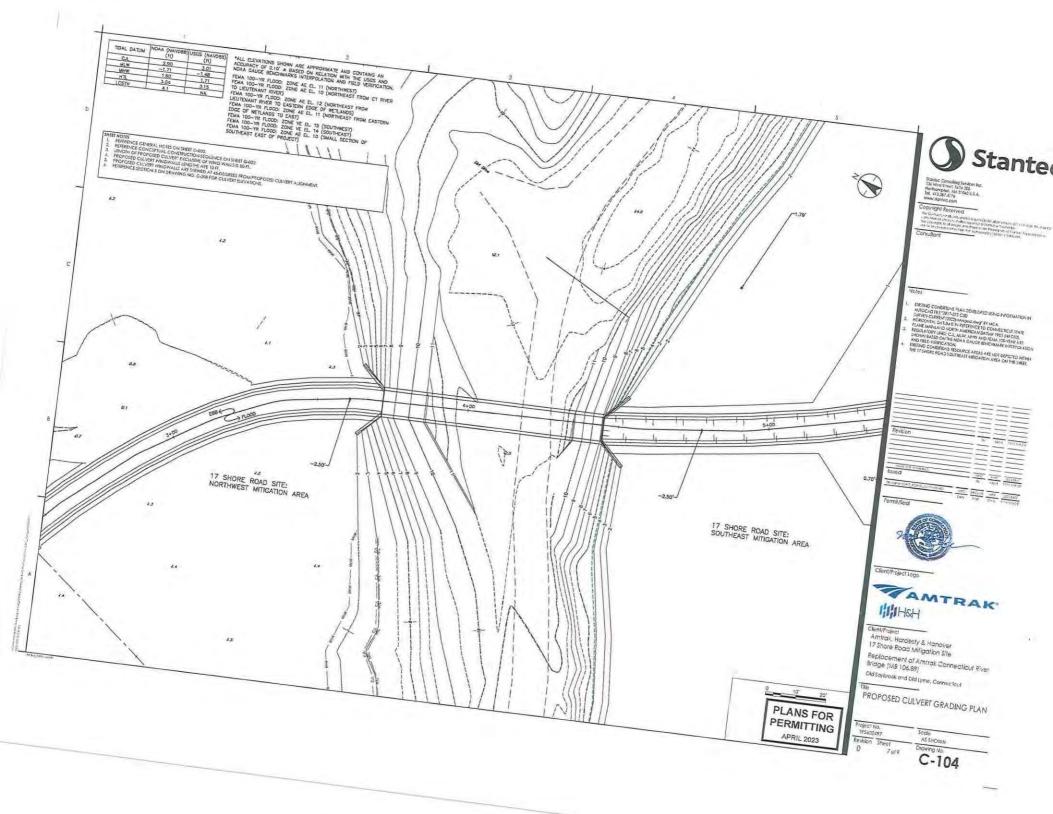












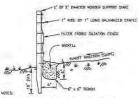
Stantec Stantec AAMTRAK" SECTIONS AND PROFILES Replacement of Amtras Cor Bridge (MB 106.89) TST PLANS FOR PERMITTING APRIL 2023 ELEVATION (FT, NAVD88) ELEVATION (FT, NAVD88) STATION (FT) PROFILE NAME: ALIGNMENT - 175HRD-WE-1 - (5) STATION (FT) SECTION 3 - EXISTING AND PROPOSED TERRAIN - TIDAL CHANNEL - NORTH (P-10) HORCOMAL SOULE 1"-5" ELEVATION (FT, NAVD88) SECTION 1 - EXISTING AND PROPOSED TERRAIN - EAST HORIZONTAL SOME 1"-SO" / VERTICAL SOME 1"-S" ELEVATION (FT, NAVORB) PROFILE NAME: ALIGNMENT - 175HRD-WEST-NS - (6) ELEVATION (FT, NAVD88) ELEVATION (FT, NAVD88)

". THAKED ENGSION COMPACE BARRIER: STHAM BALES" SHALL BE CONSTRUCTED WITH STHAM BALES ON BALES. SHALL BE CERTIFIED TREE TROM WEEDS, INVASIVE SPECES PROPAGULES, AND OTHER DELETERIOUS MATERIALS. 2. TO THE EXTENT PRACTICABLE, BALLS SHALL HE PLACED ALONG THE SLOPE CONTOURS TO MAXIMET POWENS ESTIMETRY.

2. BADY STRAW BALE SALE BY STAKED WITH AT LEAST STAKES, BUTT BRAIN TOOTHER TO CREATE A TIGHT, IN THAT COMPRISON FROM THE REFUSED AND STAKES AS SECTION BRAIN OF THE REPUBLIES AND THE REPUBLIES, BEFORE AND STAKES AND THE CONTRACTOR SHALL UTUAL ALTERNATION, ESCHOOL AND STOKEN CONTRACTOR SHALL UTUAL ALTERNATION. ESCHOOL AND STOKEN AND STOKEN CONTRACTOR SHALL UTUAL ALTERNATION. ESCHOOL AND STOKEN AND STOKEN CONTRACTOR SHALL UTUAL ALTERNATION. ESCHOOL AND STOKEN CONTRACTOR SHALL UTUAL AND STAKEN A STRAW BALTS SHALL BE REMOVED AND REPLACED WHEN CLOSED WITH SOL PARTICLES OR AS DIRECTED BY THE EMPACER.

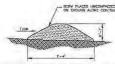
S. ACCUMULATED SERVENT SHALL BE REMOND WHEN STORAGE HEIST HAS BEEN BEDUCED TO 9 INCHES. REMOND SERVENT SHALL BE DEPOSITED IN AN AREA THAT IS NOT WHITH JURISQUINGEN AREA WILL NOT CONTRIBUTE SERVENT OTT-SET, AND CAN SE PERMINENTLY STANDIZED.

STAKED EROSION CONTROL BARRIER: STRAW BALE NOT TO SCALE



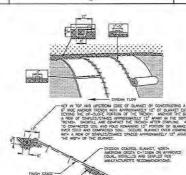
- 1. EDNOC SHALL CKTCHO 24" HIGH (MINIMUM) ABONC GROUND.
- 2. EXTEND FLIER FASRIC A MAINUM OF 6" INTO TRENCH AND BACKFILL TRENCH.
- 3. SET FENCE MATERIAL SHALL BE ATTACHED TO THE SUPPORT STAKES WITH A MINIMUM OF SIX 1" WIDE BY 1" LONG CANAMIZED STAPES.

STAKED EROSION CONTROL BARRIER: SILT FENCE NOT TO SCALE



- 1. THICK DURN SHALL BE PLACED ALONG SLOPE CONTOURS TO MAXIMUZE PORGING TITLICIACY
- BERH MATERAL SHALL BE DARK MULCH, STUMP DRIVINGS, OR OTHER APPROVED, BIOGETRADABLE MATERAL, FREE FROM WEEDS, WASHIE SPECIES PROPRIEUES, AND DENER DELETEROUS MATERIALS.
- 3. BERW MATERIALS SHALL BE REPLACED AND/OR REPLEMSHED AS REQUIRED TO MAINTAIN FUNCTIONALITY OF PILER GERM.
- FILTER DERM SHALL NOT BE USED ADJACENT TO STREAMS OR STREAMBANC. CONTRACTOR SHALL USE AN ALTERNATE DROSON CONTROL BURREY (C.G., STAND BALES OR STRAW WATEL) WHEN EROSION CONTROL BARREY IS REQUISED IN FICES COLORION.

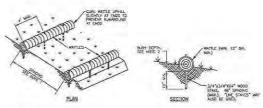
FILTER BERM



- 1. ERECION CONTROL BUNNEY SHALL BE NORTH AMERICAN DREEN C-1258N OR APPROVED EQUAL
- 2. DESSION COMPRO. BLANKET SHALL BE INSTALLED IN AREAS DISTURBED BY CONSTRUCTION WITH SLEPES 2 41 (HEV) ADDRESS MANY CLEV. EXCEPT AS NOTED.
- 5. WHEN INSTALLING ADJACENT TO STREAM CHANNELS, BUGIN INSTALLATION AT DOWNSTREAM LIMIT AND WORK UPSTREAM SUCH THAT VERTICAL SIGN ONDREAPS ARE SHASLED APPROPRIATELY IN RELATION TO STREAM SIGN DIRECTION.

EROSION CONTROL BLANKET NOT TO SCALE

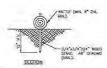
PREPARE SON PRIOR TO INSTALLING BLANKS



2. INSTALL WATLE IN TRENCH DUB 2 10 3 INCHES DEEP. COMPACT SOIL ENCAVATED FROM TRENCH AT URSLOPE SIDE OF WATLE. BACKTILL TRENCH AND RECOMMENT/TAIN SOIL WICH ROLLS ARE REMOVED.

- 3. HISTALL WATTLES ALONG THE CONTOUR.
- 4. WHEN INSTALLING WATELES END TO END, ENSURE THAT ENDS TIGHTLE ABUT.
- 6, FOR SLOPE CREATER THAN 5:1 WATEZ SHALL BE MIN. 20 INCHES IN CAMETER, SMALLER-DANETER WATLES MAY BE STACKED TO ACHIEVE SMALAR LEVEL OF PROTECTION.

STAKED EROSION CONTROL BARRIER: STRAW WATTLE ON SLOPE NOT TO SCALE

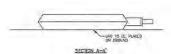


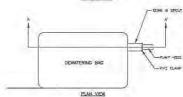
- 2. INSTALL WATTLES ALONG CONTOUR
- J. WHEN INSTALLING WATTLES END TO END, ENSURE THAT ENDS TIGHTLY ABUT.

STAKED EROSION CONTROL BARRIER; STRAW WATTLE ON SHALLOW GRADE NOT TO SCALE

General Notes

- THIS PLAN IS TO BE USED AS A QUIDELINE ONLY, ADDITIONAL EROSION AND SEDIMENT CONTROL (ESC) MAY BE DICTATED BY FIELD CONDITIONS, YOU SCUMENT CONTROL CESS, MAIL BE DISTANCED. AND ON THEIR DESCRIPTION OF THE BROWNER, AND SHALL BE INSTALLED AT THE CONTRACTOR'S EXPENSION OF THE CONTRACTOR'S EXPENSION OF THE CONTRACTOR FOR APPROVAL. IN ADDITION TO ESS MEASURES SHOWN ON THE PLANS ESS MAZINES SHALL BE UTILIZED AT THE BUSE OF ALL TEMPORARY. SOIL STOCKPILES.
- THE CONTRACTOR IS RESPONSIBLE FOR COMPLYING WITH ALL LOCAL, STATE, AND FEDERAL REGULATIONS AND PERMIT CONDITIONS.
- 3. SEC MPSIGNES SMALL BE INSTALLED PROPR TO THE ONSET OF OTHER CONSTRUCTION ARTHRES AND SMALL BE ANDOUGHT TO PROVENT EROSSON AND SEDMENT TRANSPORT BEYOND THE LIMITS OF WORK. ESC MEASURES SMALL BE INSPECTED, REPARKED, AND MAINTAINED AS NECESSARY TO COMPLY WITH APPLICABLE REGULATIONS AND PROJECT PERMIT CONTIONIONS.
- 4. THE CONTRACTOR SHALL STORE ON SITE ALL MATERIALS NECESSARY TO MAKE REPAIRS TO ALL ESC MEASURES. REPAIRS AND MAINTENANCE OF ESC MEASURES SHALL BE MADE IMMEDIATELY FOLLOWING IDENTIFICATION OF DEPICIENCIES AND AT NO ADDITIONAL COST TO THE OWNER.
- 5. THE CONTRACTOR SHALL INSTALL STABILIZED CONSTRUCTION ENTRANCES AT LOCATIONS DEPICTED ON THE PLANS AND AT ANY ALTERNATE APPROVED LOCATIONS USED TO ACCESS THE WORK AREA. ALTERNATE LOCATIONS MUST BE APPROVED BY THE OWNER PRIOR TO USE BY THE
- REFERENCE "2002 CONNECTICUT GUIDELINES FOR SOIL EROSION AND SEDIMENT CONTROL AS PREPARED BY THE CONNECTICUT COUNCIL ON SOIL AND MATTER CONSENSATION IN COOPERATION WITH THE CONNECTICUT DEPARTMENT OF ENVIRONMENTAL PROTECTION, OR SUBSQUERY MERSIONS.
- WATTLES MUST CONSIST OF BIODECRADABLE FABRIC OR MESH AND NOT INCLUDE PLASTIC OR MONOFILAMENT NEITING TO REDUCE POTENTIAL WILDLIFE ENTANGLEMENT.





DEWATERING BAG STRUCTURE NOT TO SCALE

PLANS FOR PERMITTING APRIL 2023



Stanley Controlling Services Inc. 126 Wed Street, Suite 203 Northstration, MA 01040 U.S.A. Tel. 413.367,4774 Www.stanley.com

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Client/Project Logo



Client/Project

Amtrak, Hardesty & Hanover 7 Shore Road Mitigation Site

Reslacement of Amfrak Connecticul River Bridge (MB 106.89)

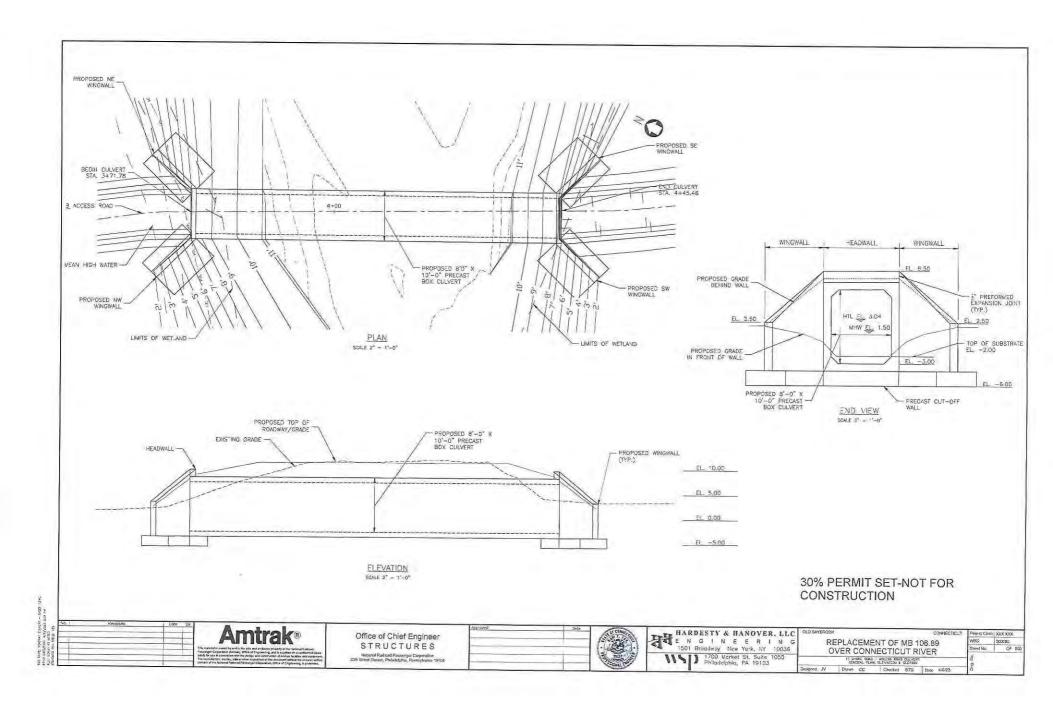
Old Saybrook and Old Lyme, Connecticut

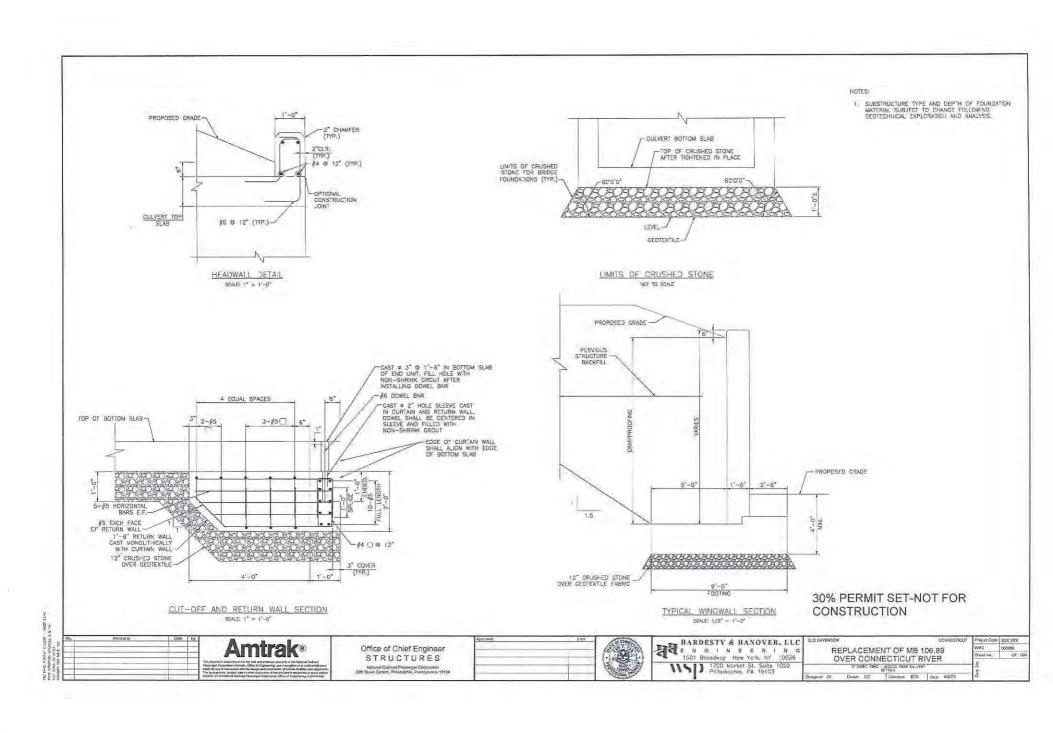
EROSION AND SEDIMENT CONTROL NOTES & DETAILS

195602497 Revision Sheet 0

Scale AS SHOWN Drawing No.

C-300

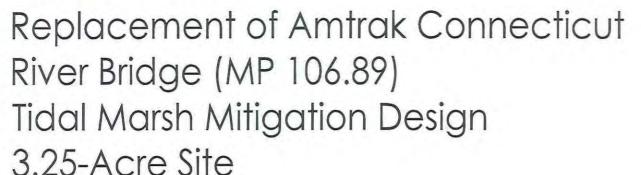












Old Lyme and Old Saybrook, CT





DRAWING NO.	TITLE
	COVER SHEET
G-002	GENERAL NOTES AND LEGEND
C-100	EXISTING CONDITIONS PLAN
C-10)	PROPOSED CONDITIONS PLAN
C-102	CONSTRUCTION ACCESS, SITE PREPARATION: AND STAGING/LAYDOWN PLAN
C-200	SECTIONS AND SECTION DETAILS
C-300	EROSION AND SEDIMENT CONTROL NOTES & DETAILS





2023.04.07

PROJECT NUMBER: 195602497

PLANS FOR





Hardesty & Hanover, LLC 850 Bear Tayern Road, Suite 206 West Trenton, NJ THE OBJECTIVE OF THE \$2.25-ACRE SITE MITIGATION DESIGN IS TO RESTORE NATURAL RESOURCES ON THE \$2.55-ACRE SITE AS MITIGATION FOR IMPACTS AS PART OF THE AMERIC EXPINECTION RIVER SPIDOR REPLACEMENT PROJECT.

THE GREEKA SCOPE OF WORK INCLUDES, BUT IS NOT JUNITIO TO, INSTALLATION OF EROSION AND SEDIMENT CONTROL MEASURES, ESTABLISHING CONSTRUCTION ACCESS, PREPARATION AND CONSTRUCTION OF THE TRANSPLANT AREA, AND PLUGGING OF THREE REMNANT MOSOULTO CONTROL

FISHERIES AWILD OFF HABILAT NOTES

- TI. ALL ON-STE GÖRSTRUCTION STAFF WILL ATTEND TRAINING BY AN GUALIFIED ENVIRONMENTAL SCIENTIST AND RECEIVE A COPY OF FINAL WEOLIFE PROTECTION PLAN PRIOR TO BEGINNING WORK ON SITE.
- A QUALIFIED ENVIRONMENT SCIENTIST WILL BE PRESENT WHEN WORK IS BRING CONDUCTED.
- NOISE-GENERATING CONSTRUCTION ACTIVITIES MUST BEGIN PRIOR TO MAY I AND CONTINUE WITHOUT PROCONGED INTERRUPTION THROUGH AUGUST AL SEA SISKINGANT NOISE-GENERATING CONSTRUCTION AUGUST 1, P. A SIGNIFICANT NORBESTRANTING UPON TOURISM ACTIVITY DOES NOT STAFF PROPT TO ANY 1, THEN A TIME OF YEAR RESINCTION WILL APPLY, AND WORK MAY NOT BEGIN URTIL SEPTEMBER I WITHOUT THE APPROVAL OF CIDEDY TO PROTECT LEAST BITTERN AND SALTMARCH SHARK-TAILED SPARPOW
- A. IF BALD EAGLE NESTING ACTIVITY IS GESERVED WITHIN 488 FT FROM CONSTRUCTION ACTIVITY ALL CONSTRUCTION MUST STOP UNIT. NESTING ACTIVITY HAS CEASED.
- CONSTRUCTION WITHIN TIDAL CREEKS OR SWALAR CHANNELISED AGUATIC HASTAT IS PROHIBITED STOWN HOVEMBER 1- MARCH 31 TO PROTECT OVER-WINTERING STATE-LISTED TUPTLES.
- 6. WORK UINTS MUST BE ENCLOSED BY A WILDLIFE BARRIER SYSTEM BETWEEN ARRIVE AND DICTORER AT IF G. NILL FENCE OR ELEVATED WOR. APRIL I AND DICIOUR STIELS, SIT INCE ON REVIEW TO YOUR
 DEPACEST OF PREVENT BY STATISHING THE THE SOLATED
 WORK LIMITE ARE TO BE REPECTED DAILY BY TRAINED CONSTRUCTION
 STAFF, OR EITHOR OWNERS AND HOSTORS FOR THE PRESENCE OF
 STATISHING OWNERS AND HOSTORS FOR THE PRESENCE OF
 STATISHING OWNERS AND THE STATISH OF WORK; TURLES ARE TO SE RELOCATED IF ORSERVED IN WORK DIMITS AND REPORTED TO THE CITALORS FOR STRIPPING THE CONTROL AND THE CONTROL OF IN THE WILDLIFE BARRIER ARE TO BE PROMPTLY REPAIRED.
- 7. SPEED LIMIT ALONG ACCESS POVADS IS NOT TO EXCEED 10 MPH.
- 8. REFUEUNG OF HANDLING DIHER SID-TOXIC LIGHTS IS PROHISTED IN THE VICINITY OF LOW MARSH, RIVERBANKS, TIDAL CREEKS, OR DITCHES,
- INACTIVE OSPREY NESTS MAY BE REMOVED FROM SEPTEMBER 1 MARCH 1: CTOEEP IS TO BE NOTIFIED PRIOR TO REMOVING ANY OSPREY NEST.
- 10. TREE CLEARING IS PROHIBITED FROM JUNE 1 JULY 3 | TO PROTECT NORTHERN LONG-EARED SATS.
- 11, APPROPRIATE SOIL EROSION, SEDIMENT, AND TURBIDITY CONTROLS WILL BE USED AND MAINTAINED DURING CONSTRUCTION; AND APEAS CARABLE OF PRODUCING GREATER THAN MINIMAL TURBIDITY OR WOLFOW ROLLING DONE DURING PERIODS OF LOW- OR NO-FLOW O PROTECT FISHERY RESOURCES
- 12. WORK THAT PRODUCES GREATER THAN MINIMAL TURBUTY OR SEDIMENTATION DONE OUTSIDE OF TURBUTY CURTAINS OF COPPERDAMS, IS PROHIBITED FROM FEBRUARY 1 - JUNE 20 TO PROTECT RISHERY RESOURCES.
- II. EROSION AND SEDIMENT CONTROL MATERIALS CANNOT CONTAIN PLASTIC OR MONOFILAMENT MESHES TO REDUCE POTENTIAL WILDLIFE ENTANGLEMENT

GENERAL NOTES

- 1. INFORMATION DEPICTED ON THESE PLANS DOES NOT CONSTITUTE AN AGREEMENT TO ACCESS ON WORK ON PROPINITIES DEPICED ON THISE PLANS. ACCESS PERMISSION IS THE RESPONSIBILITY OF THE PROJECT OWNER AND MUST BE CONTRIBUTED BY THE CONTRACTOR.
- 2. EXISTING UTILITY EASEMENTS ARE NOT DEPICTED.
- I TOPOGRAPHIC AND SITE FEATURES ARE BASED UPON SURVEYS CONTRICTED BY MARTINET COUCH & ASSOCIATES, LLC
- 4. ALL CONTOURS AND ELEVATIONS ARE PRESENTED IN FEET AND REFER TO HE NORTH AMERICAN VERTICAL DATUM OF 1988 INAVO. 1988
- 5. NORTH ARROW, BEARINGS, AND COORDINATES ARE BASED UPON THE NOTE: AMERICAN DATUM OF 1983 INAD 1983) CONNECTICUT STATE
 PLANE COORDINATE SYSTEM FEET UNITS.
- EXERTING CONTOURS ARE COMPUTER-GENERATED INTERPOLATIONS, EDITED TO GENERALLY CONFORM TO FIELD OBSERVATIONS.
- 7. INFORMATION REGARDING THE LOCATION OF EXISTING LITLITIES IS BASED UPON AVAILABLE INFORMATION WAY BE INCOMPITE. AND WHISE SHOWN SHEED IS CONSIDERED APPROVATE. THE COLONIO OF ALL BEIONI SHEED IS CONSIDERED AND THE BEIONIAN OF CONTRIBUTION ACAR THE CONNECTION OF ALL SHEED AND THE COLONIO OF CHIEF ALL SHEED AND THAT SHEED AND THE COLONIO SHOWN OF THE PLANS SHALL INSIDER SHOWN OF THE PLANS SHALL INSIDER SHOWN OF THE PLANS SHALL INSIDER. UPON AVAILABLE INFORMATION, MAY BE INCOMPLETE, AND WHER
- 8. STANTEC ACCEPTS NO RESPONSIBILITY FOR THE ACCURACY OF MAPS
- CONTRACTOR SHALL VERIFY CRITICAL ELEVATIONS AND GRADES IN THE HELD PRIOR TO CONSTRUCTION.

AND DATA THAT HAVE BEEN SUPPLIED BY DITHERS

- 10. IF CONTRACTOR ORSERVES RELD CONDITIONS WHICH VARI SIGNIFICANTLY FROM WHAT IS SHOWN ON THESE PLANS, THE CONTRACTOR SHALL IMMEDIATELY NOTIFY THE OWNER AND ENGINEER POR RESOLUTION OF THE CONFLICTING INFORMATION.
- 13). EXCEPT WHERE SPECIFICALLY NOTED, THE LOCATIONS AND INFORMATION ABOUT INIDEPCROUND PIPES, WIRITIS OR OTHER STRUCTURES ARE CONVEYED FROM AVAILABLE RECORD DATA AND VISIOUS RELIE WIDENCE AND ARE NOT REPRESENTED AS BEING EXACT OR

- 12. PRIOR TO MOREITHIG TO THE PROJECT SITE, CONTRACTOR SHALL CIVE ADEQUATE ADVANCE SIGNED TO THE CONNECTION TO ALL BEFORE YOU DICT CHEFT, HE TOWN IN ON OUL YIME, AND PRIVALE MITTY COMPANIES TO ALLOW FOR RED LIDICATION OF FACILITIES IN THE VICINITY OF THE
- COORDINATE WITH AMTRAK AND OBTAIN APPROVALS FOR ACCESS WITHIN RAILPOAD RIGHT-OF-WAY.
- 14. CONTRACTOR SHALL INSTALL "SMPORARY MEASURES AS NECESSARY "O ADEQUATELY PROTECT AND PRESENCE SURED UTILITIES AND INSTRACTURE WITHIN AND ADJACENT TO PROJECT WORK APPAS.
- 15. CONTRACTOR IS RESPONSIBLE FOR EVALUATING THE CONDITION OF PARTING ROADS AND CULVERTS AND INSTALLATION OF TEMPORAS' MEASURES FOR USE OF YOADS AND CULVERTS DURING CONSTRUCTION
- TA. THE DURATION OF THE WORK, THE CONTRACTOR SHALL HIROUGHOUT THE DURATION OF THE WORK, THE CONTINUED SHAD, PROTECT AND PRESERVE DISTRIES AND ALL RELACED SHAPE PROCESSAY. AND APPLICATION OF WINNING THE VICINITY OF WORK, ACCESSAGES, AND STAGOD, AND STORAGE. THE CONTRACTOR SHALL BE REPROVIDED FOR ALL COSTS ASSOCIATION WITH PEPPARHIC UNLITED AND PETATED WITHAUTIBUCTURE AND APPLIFTENANCES F DAMAGED AS A PART OF CONSISTICION OF THE PROJECT.
- 17. CONTRACTOR SHALL IMMEDIATELY REPORT ANY DAMAGE TO EXISTING PIPES, UTILITIES, OR STRUCTURES TO THE OWNER AND ENGINEER, AND OBTAIN DIRECTIONS AS TO REPAIR, REPLACEMENT OR ASANDONMENT.
- 16 BEFFFF OF 10002 CONNECTICUE GLIDELINES FOR SOIL FROSION AND REPRINCE "2002 CONNECTION OF THE PROPERTY OF THE CONNECTION COUNCIL ON SOIL AND WATER CONSERVATION IN COOPERATION WHITHE CONNECTION TERRAPHIENT OF ENVIRONMENTAL PROTECTION, OR SUBSECUENT VERSIONS.
- 19. THE COUTRACTOR SHALL RECORD THE MEASUREMENTS: DEPTHS DIVENSIONS, MATERIALS, FIELD CONDITIONS, AND OTHER PERSINENT DATA ABOUT ALL PIPES, UTILITIES, AND STRUCTURES ENCOUNTERED DURING THE WORK, BOTH EXISTING AND CONSTRUCTED. CONTRACTOR SHALL SUBMIT RECORD DRAWINGS WITH THIS INFORMATION TO THE OWNER AND ENGINEER PRIOR TO COMPLETION OF THE WORK.
- 20. CONTRACTOR IS RESPONSIBLE FOR WATER MANAGEMENT DURING CONTRACTOR B TERPONSIBLE FOR WATER MANAGEMENT DURING CONSTRUCTION INCLUDING PREPARATION OF A WATER AN ANGEMENT PLANTO BE APPROVED BY THE SHORINEER AND DIVINER, WHICH SHALL INCLUDE AN DUILINE OF PROTOCOLS AND PROCEDURES ASSOCIATED WITH HIGH-WATER CONDITIONS IN THE JECTEMANT RIVER, THE OWNER AND ENGINEER WILL NOT SELECT RESPONSIBLE FOR DAMAGES INCURRED TO CONTRACTOR'S EQUIPMENT OR CONSTRUCTION PROJECT MATERIALS FROM HIGH-WATER CONDITIONS.
- CONSTRUCTION EQUIPMENT CANNOT BE OPERATED ON THE MARSH SURFACE EXCEPT AS APPROVED IN PROJECT PERMITS. CONSTRUCTION EQUIPMENT THAT IS APPROVED IN PROJECT PERMITS. CONSTRUCTION CANNOT BE OPERATED WHEN THE MARSH SURFACE IS T
- 59. DURING ALL NON-WORK PERIODS EXCEEDING A DURATION OF 24 HOURS, CONTRACTOR'S EQUIPMENT SHALL BE DEMOBILIZED AS SPECIFIED. IN PROJECT PERMITS
- 25. ALL TEMPORARY AND PERMANENT MATERIALS FOR CONSTRUCTION SHALL BE CLEAN AND FREE OF DEBRIS
- 24. CONTRACTOR SHALL FHOROUGHLY, WASH AND CLEAN EQUIPMENT HINDR TO MOBILITATION TO THE PROJECT SITE TO A VOID INTRODUCTION OF INVASINE PLANT PROPAGULES TO THE PROJECT SITE.
- 25. CONTRACTOR'S EQUIPMENT SHALL BE SOUND, CLEAN, AND LEAK FREE PRIOR TO MOBILIZING TO THE PROJECTISTS AND SHALL BE MAINTAINED IN
- LEAK-FREE CONDITION WHILE ON SITE.
- 26. A COMPLETE SPILL KIT SHALL BE MAINTAINED AT THE PROJECT APEA. ALL CONSTRUCTION EQUIPMENT SHALL HAVE A MOUNTED HER EXTRIGUISHER.
- 27. PERIMETER EROSION AND SEDIMENT CONTROLS SHALL BE INSTALLED
- - ESTABLISH LONGER-TERM WATTLES ADJACENT TO TRANSPLANT AREA
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 - A.I. REFERENCE PROJECT CONSTRUCTION AGREEMENT AND PERMITS

PRIOR TO COMMENCING FURTHER WORK AND SHALL BE MAINTAINED THROUGHOUT THE DURATION OF WORK. 28. ON-SITE REFLIELING SHALL OCCUR ONLY AS ALLOWED BY PROJECT RMITS, A DRIP PAN OR ABSORBENT PAGE SHALL BE USED DURING ALL

- DISPENSING OPERATIONS. 29. ALL MATERIAL REMOVED FROM THE PROJECT SITESHALL BE DISPOSED OF IN COMPLIANCE WEY, ALL APPLICABLE REGULATIONS.
- 3D. WORKSHALL COMPLY WITH ALL APPLICABLE ENVIRONMENTAL REGULATIONS AND PROJECT PERMIT CONDITIONS

CONCEPTUAL CONSTRUCTION SPOURNCE

- I. PRS-MOBILIZATION
- DEVELOP WORK PLANS
- REVIEW DESIGN REVIEW PERMITS 1.1.2, DEVELOP WORK PLAN
- 1.1.22 DEVELOW MORE PLAN

 A CONDUCT PRESCRIP CONTROL OF COMMON REED

 PROPOSITION OF TRANSPLANT AREA AT LAST 4-0 WEETS,
 PRIOR TO COMPRISH AND BUILDING TO OPPOSITE STACKING AREA(S)

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 PRIOR DEMARKS ACTION OF RESCRIPCES AND WORK AREA(S)
- IDENTIFY AND DEMARK SENSITIVE PLANT COMMUNITIES TO BE
- DEMARK BOUNDARIES OF PERMANENT WORK AREAS TRANSPLANT AREA
- 2.2.2 DITCH PLUGGING AREA
- DEMARK TEMPORARY WORK AREAS
- MARK TEMPORAY WORK AFEA:
 PRIMARY LANDING
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 IN FEOURIES, DATALL BUOYS TO DEMARK PRIMARY AND
 SECONDARY BAYCE MOORING AREAS AND THE PRIMARY BOAT
 MOORING AREAS.

- SOATIS) AND BARGE(S) MOBBLED ADJACENT TO PRIMARY MOORNS AREA
- HISTALL TURTLE EXCLUSIONARY BARRIER MEASURES AND CONDUCT WORKSITE SWEEP FOR TURTLES
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 AND SEDMENT COMPROIS
- ESTABLISH EROSION AND SEDIMENT CONTROLS ADJACENT TO PERMANELL WORK AREAS
- BAILY MOSILIFATION/DEMOSTLE ATION OF CONSTRUCTION EQUIPMENT YOUSTE OF OFFSITE AS REQUIRED BY PROJECT, PERMITS!
- CONDUCT PRE-CONSTRUCTION TUPTLE SWEEP
- PLUG DITCHES
- PLIG DITCHES
 PERFORM PRE-EXCAVATION IN TRANSPLANT AREA
 COORDINATE TRANSPLANT SITE PREPARATION WITH PLANT SALVAGE

- AND TRANSPORT SECURITY STANSPORT OF EXCAVATED MATERIAL FROM PRAISSLANT AREA (ONDOING) HETALLATION OF TRANSPLANT STOCK (EMISIONIC) MONTENERS AND MARITENIANCE OF ROSION AND SEDIMENT CONFECTION OF PRIMARY CONSTRUCTION
- 4.10. PECEIPT OF DWINEPS ACCEPTANCE OF PRIMARY CONSTRUCTION WORK

5. DEMOSILIZATION

- REMOVE TEMPORARY ACCESS ROUTES
- DESTORE HARACTED AREAS ALONG TEMPORARY ACCESS ROUTES

Lecenc EXISTING 5' MAJOR CONTOUR EXISTING 1' MINOR CONTOUR PROPOSED 5' MAJOR CONTOUR PROPOSED 1' MINOR CONTOUR --- EXISTING PROPERTY LINE ----- EXISTING RIVER EDGE (APPROX.) - MEAN LOW WATER - MEAN HIGH WATER - COASTAL JURISDICTION LINE - HIGH TIDE LINE TOM 100 - FEMA 100YR LINE DH - EXISTING OVERHEAD UTILITY - c --- EXISTING COMMUNICATION LINE F ---- EXISTING ELECTRIC LINE - F/D- EXISTING FIRER OFTICS - x ---- EXISTING METAL FENCE - - - EXISTING GRAVEL DRIVE EXISTING STONE WALL EXISTING DRAINAGE SWALE PROPOSED DRAINAGE SWALE ---- LIMITS OF CONSTRUCTION CONSTRUCTION ACCESS ROUTE RESTORED CONSTRUCTION ACCESS ROAD AREAS ---SEDIMENT CONTROL BARRIER - OIL BOOM PHASED FLOW DIVERSION SEDIMENT CONTROL BARRIER TEMPORARY STAKED TURBIDITY CURTAIN TEMPORARY COFFER DAM WETLAND FLAG LIMITS OF DISTURBANCE



126 West Street, Sulle 203 Northampton, AA 01060 U.S.A. Tel: 413,367,4776



Client/Project Loco



Clent/Project Amtrak, Haraesty & Hanover

3.25-Acre Miligation Site Replacement of Amtrak Connecticut River

Bridge (IMB 106.89) Old Saybrook and Old Lyme, Connecticu

GENERAL NOTES AND LEGEND

PLANS FOR Proitte! No

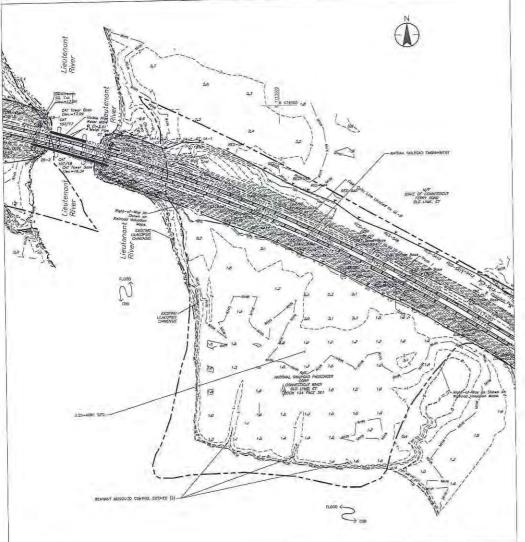
PERMITTING

APRIL 2023

195602497

Revision Sheet 0

AS SHOWN G-002



TOAL DATUM	NDAA (NAVJ88) (ft)	USGS (NAVDS (*t)
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VIW	-1.71	-1.49
MEW	1,50	1.71
HT.	3.04	3.15
CSTV	2.1	NA-

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Amtrak, Hardesty & Hanover 3.25-Acre Mitigation Site

Replacement of Amtrak Connecticut River Bridge (MB 106.89)

Old Sayorook and Old Lyme, Connecticut

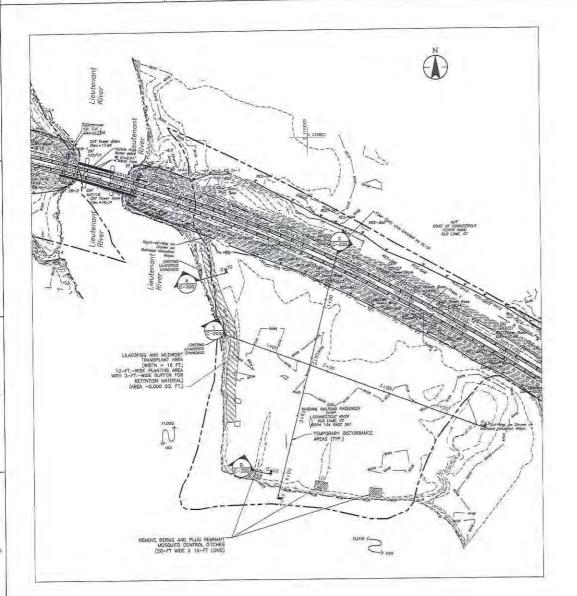
EXISTING CONDITIONS PLAN

Project No. 195602497 PERMITTING Revision Sneet Scale ASSHOWN

C-100

PLANS FOR

APRIL 2023



TIDAL DATUM	(tt)	USGS (NAVORB (ft)
697	2,90	3.01
MUW	-1.71	-1,48
MHW	1.60	1.71
HT.	3.04	3,15
- FEGURA	4.1	AU

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- EQUING CONDITIONS PLAN DEVELOPED USING INCREMATION IN AUTOCAD FILE 2017-272 CDD SURVEY-CURSENT (TID20-MANGOLDED BY MCA. EXISTING CONDITIONS DATA WAS NOT VERHIED BY STANIEC, INCREDIATED AUTHOR IN SPERSENCE FO CONNECTICUIT STATE PLANE MAINLAND RORTH AMERICAN DATUM 1923
- DEPICTED REQULATORY INFORMATION (C.E. M.W. MHW AND TEMA TOCYTARY ARE BASED ON THEORMATION BY MCA AND WERE NOT VERTIFIED BY STATISED.





Client/Project Logo



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Clent/Project

Amirak, Hardesty & Hanover 3.25-Acre Mitigation Site

Replacement of Amtrax Connecticut River 3rldge (MB 106.89)

Old Saybrook and Old Lyme, Connecticut

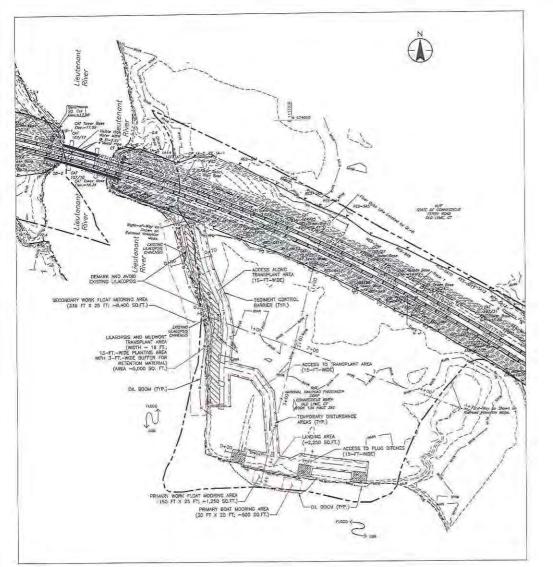
PROPOSED CONDITIONS PLAN

Project No 195402497 Revision Sheet 0

Scale = 50 FT 4017

Drawing No. C-101

PLANS FOR PERMITTING **APRIL 2023**



TIDAL DATUM	(BBDVAN) AAON	USGS (NAVD88) (ft)
CAL	2,90	3,01
MLW	-1.71	-1,¢R
MHW	1,60	1,71
HT.	7.04	3.15
COTV	4.1	- NA

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FERM TOG-479 FLOOD ZONE AE EL. 10 (SOUTHINSTS.)
FERM 100-479 FLOOD ZONE AE EL. 11 (SOUTHINSTS.)

AMIDATION AREAS

1. SHIPE PARCE WILL HAVE COMMON REED CONTROL

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4. SHIPE PARCE AREA DO NOT INCLIDE APPEAS FOR COMMON REED CONVERSION

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HOSION AND SERIMENT CONTROL

1. THE DRAWING PRESENT TYPICAL EROSION AND SERIMENT CONTROLS.

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Clent/Project

Amtrak, Hardesty & Hanover 3.25-Acre Mitigation Site

Replacement of Amtrak Connecticut River Bridge (MB 106,89)

Old Saybrook and Old Lyrne, Connecticul

PROPOSED CONSTRUCTION ACCESS, SITE PREPARATION AND

STAGING/LAYDOWN PLAN 195602497

PLANS FOR PERMITTING

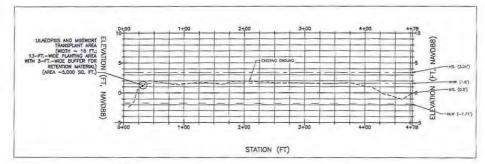
APRIL 2023

Revision Sheet 5.of 7

1"= 50 FT

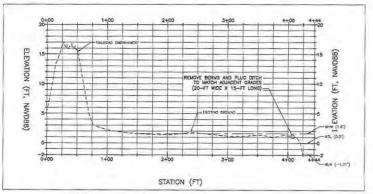
C-102

TIDAL DATUM	NDAA (NAVDEB) (ft)	USGS (NAVDSS) (ft)		
CJL	2.90	3.01		
MLW	-1.71	-1.48		
MHW	1,60	1,71		
HTL	3.04	3.15		
LCSTV	4.1	- NA		



SECTION - EXISTING TERRAIN - NORTH

NOTES:
1. REFERENCE SECTION DETAIL "B" (TRANSPLANT AREA (TYP.)) ON THIS SHEET.

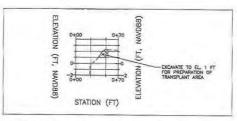


2 C-101 SECTION - EXISTING TERRAIN - EAST VERTICAL - 1"-5" / HORIZONTAL - 1"-50"

NOTES:

1. REFERENCE SECTION 1 ON THIS SHEET FOR REFERENCE WATER SURFACE ELEVATIONS.

2. REFERENCE SECTION OCTAL 1st (DITCH PLUIGHIG (THP.)) ON THIS SHEET.



A SECTION DETAIL - TRANSPLANT AREA (TYP.)
VERTICAL - 1"-5" / HORIZONTAL - 1"-50"

PMASPLANT AREA NOTES:

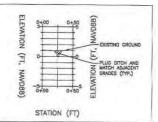
1. REFRENCE SECTION 1 ON THIS SHEET FOR REFERENCE WATER SURFACE ELEVATIONS.

2. TOTAL WIDTH OF TRANSPLANT AREA S = 10 FT.

2.2. -3 TT, WIDTH FOR RETENTION MATERIAL ON DOWN-DEADENT (MEST) SDE ALONG CULTERNAM RIVER FOR RETENTION MATERIAL (E.G., DOR LOG OR WATLE)

5. DOWNAMT EXSTING MATERIAL TO EL. =1 T. LAY BONG OUT AROUSE PIENS CRARGE A VELVY

5. KSTALL TRANSPLANT STOCK 6. THIS PLANSPLANT STOCK S EL. =1.6 FT



SECTION DETAIL - DITCH PLUGGING (TYP.) VERTICAL = 1"=5" / HORIZONTAL = 1"=50"

DITCH PLUGGING NOTES:

1. REPERBLICE SCRIDT 1 ON THIS SHEET FOR REPERBLICE WATER SURFACE ELEMATIONS.

2. PLUE BRICH WITH MATERIAL FROM ADMICHIT BERMS OR MATERIAL EXCHANTED FROM

3. MATCH ADMICENT GRADES WITH DITCH PLUG MATERIAL

G.

PLANS FOR PERMITTING APRIL 2023



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Amtrak, Hardesty & Hanover

3.25-Acre Mitigation Site Replacement of Amtrak Connecticut River Bridge (MB 106.89)

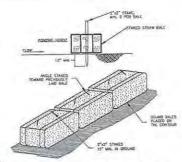
Old Saybrook and Old Lyrne, Connecticut

SECTIONS AND SECTION DETAILS

Project No. 195602497

Scale AS SHOWN

Drawing No. C-200

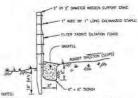


1. "STAYED EROSION CONTROL SAMHER! STAWN BALES" SHALL BE CONSTRUCTED WITH STAWN BALES OF BALES SHALL BE CONSTRUCTED WITH STAWN BALES OF BALES. 2. TO THE EXTENT PRODUCABLE, SINCE SHALL BE PLACED ALONG THE SLOPE DONIOUSS TO MAXIMIZE POLICIES OF THE STORY.

5. SERI STORM BALL SHALL BY STANDIN HIM AT LEAST 3 STANDS. BRIT BALLS TOOLTHER TO CREATE A RIGHT IN MAT CONDITION PROCESSOR A FIGHT IN CITY OF BETTER HALLS AND THE CHICAGO, AND ELECTROPHER LIGHT OF BETTER THE CONTROL AND THE CHICAGO AND THE SHALLS AND THE CHICAGO AND THE CHI A. STRAW BALES SHALL BE REMOVED AND REPLACED WITH DLOGGED WITH SOIL PARTICLES OR AS DIRECTED TO THE EMPONEUR.

ACCUMULATED SCRINENT SHALL BE REMOVED WHEN STORACE HOGHT HAS BEEN REBUIEDS TO B INCHES.
 REMOVED SEBURENT SHALL BE DEPOSITED IN AN AREA THAT SE HOT WITHIN JUREDICTIONAL RESCURED AREA. WILL HOT CONTRIBUTE SEDIMENT OFF-SITE, AND CAN BE PREMARKENT STABLEST.

STAKED EROSION CONTROL BARRIER: STRAW BALE

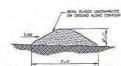


1. FORCE SHALL EXTEND 24" HISH (MININGN) ABOVE GROUND.

2. CYTENO PLIER FABRIC A WHINAM OF E" INTO TREMON AND BACKFILL TRENCH

I SET FENCE MATERIAL SHALL BE ATTACHED TO THE SUPPORT STAKES WITH A MINIMUM OF SIX IT WISE BY IT LONG CAUMINIZED STAFFLIS.

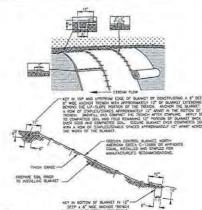
STAKED EROSION CONTROL BARRIER: SILT FENCE



THER BERM SHALL BE PLACED ALONG THOSE CONTOURS TO MANAGE FORGING DITIGITACY

2. HEMM MATERIAL SHALL BE HARK MULCH, STUMP DENDINGS, OR OTHER APPROVED, BIODECHADABLE MATERIAL FREE FROM METER, INVADRE SPECIES PROPRIETES, AND OTHER DELETEROUS MATERIALS.

5 BORN MATCHAS SHALL BE REPLATED AND/OR REPLEMSHED AS REQUIRED TO MANTAIN FUNCTIONALTY OF FLIER BORN.

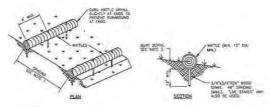


1. EMOSION CONTROL BLANKET SHALL BE NORTH AMERICAN CHEEK C-1258N ON APPROVED EQUAL

2. EMOSION CONTROL BLAKKET SHALL BE INSTALLED IN AREAS DISTURNED BY CONSTRUCTION WITH SLOPES \$ 407 (407) ADDYS MARW CLOY. DISEPT AS NOTED.

BHCH PETALING ABACENT TO DIREAM CHANGES, BEOM INSTALLATION AT DOANSTREAM SIMILATION OF STREAM SIZES FOR METALIANS AND SHRIPLING APPROPRIATED OF RECENTION TO METALIANS ARE SHRIPLING APPROPRIATED OF RECENTION TO

NOT TO SCALE



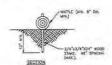
9. HISTALL WATTLE IN TRENCH BUS 2 TO 3 INCHES BEEF. DOWPACT SOLL DICAMATES FROM TRENCH AT LIPSUPE SIDE OF WATTLE. BLOCKFLET PROCESS AND RECOMPACT/DAMP SOLL WHEN HOLES ARE HEMPIED.

1 HETALL WATTLES ALONG THE CONTOUR

WHEN METALING WATELS END TO END, ENTURE THAT CHOIC TID-IT, F ASUT,

B. FOR SLOPE DESITE THAN SEE MATLE SHALL BY MIN. 20 HONES IN DAMPER. SMALLER-DIMNETER MATRIES MAY BE STADIED TO ACKNOW SMALLALLING, OF PROTECTION.

STAKED EROSION CONTROL BARRIER: STRAW WATTLE ON SLOPE NOT TO SCALE



I INSTALL MATRICS NICHE CONTOUR.

5. MINN INSTALLING WATLES END TO END, ENGLIEF THAT THES HERTLY ABUIT.

STAKED EROSION CONTROL BARRIER: STRAW WATTLE ON SHALLOW GRADE NOT TO SCALE

General Notes

- 1. THIS PLAN IS TO BE USED AS A GUIDELINE ONLY. ADDITIONAL EROSION AND SEDIMENT CONTROL (ESC) MAY BE DIGITATED BY FIELD CONDITIONS, PERMIT CONDITIONS, EMPRONMENTAL REGULATORS, AND/OR THE ENGINEER, AND SHALL BE INSTALLED AT THE CONTRACTOR'S EXPENSE. OTHER ESE MEASURES MAY BE PROPOSED BY THE CONTRACTOR FOR APPROVAL. IN ADDITION TO ESC MEASURES SHOWN ON THE PLANS, ESC MEASURES SHALL BE LITLIZED AT THE BASE OF ALL TEMPORARY SOIL STOCKPALES.
- 2. THE CONTRACTOR IS RESPONSIBLE FOR COMPLYING WITH ALL LOCAL STATE, AND FEDERAL REGULATIONS AND PERMIT CONDITIONS.
- 3. EBG WARSHERS SHALL BE INSTALLED PRIOR TO THE ONSET OF OTHER CONSTRUCTION ACTIVITIES AND SHALL BE ADEQUATE TO PREVENT ERSONO AND SCIUMENT THANSPORT BEYOND THE LIMITS OF WORK, ESG WEASURES SHALL BE INSPECTED, REPAIRED, AND MAINTAINED AS NECESSARY TO COMPLY WITH APPUICABLE REGULATIONS AND PROJECT. PERMIT CONDITIONS.
- THE CONTRACTOR SHALL STORE ON SITE ALL MATERIALS NECESSARY TO MAKE REPAIRS TO ALL ESC MEASURES. REPAIRS AND MAINTENANCE OF ESC MEASURES SHALL BE MADE IMMEDIATELY FOLLOWING IDENTIFICATION OF DEFICIENCIES AND AT NO ADDITIONAL COST TO THE DWNER.
- 5, THE CONTRACTOR SHALL INSTALL STABILIZED CONSTRUCTION ENTRANCES AT LOCATIONS DEPICITED ON THE PLANS AND AT ANY ALTERNATE APPROVED LOCATIONS USED TO ACCESS THE WORK AREA. ALTERNATE LOCATIONS MUST BE APPROVED BY THE OWNER PRIOR TO USE BY THE CONTRACTOR.
- 8. REFERENCE '2002 CONNECTICUT GUIDELINES FOR SOIL EROSION AND SEDIMENT CONTROL AS PREPARED BY THE CONNECTICUT COUNCIL ON SOIL AND WATER CONSERVATION IN COOPERATION WITH THE CONNECTICUT DEPARTMENT OF ENVIRONMENTAL PROTECTION, OR SUBSEQUENT VERSIONS.
- WATTLES MUST CONSIST OF BIODEGRADABLE FABRIC OR MESH AND NOT INCLUDE PLASTIC OR MONOFILAMENT NETTING TO REDUCE POTENTIAL WILDIUFE ENTANGLEMENT.



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Client/fioject Logo



Client/Project

Amtrak, Hardesty & Hanover 3.25-Acre Mitigation Site

Replacement of Amtrak Connecticut River Bridge (M3 106.89)

Old Saybrook and Old Lyme, Connecticul

EROSION AND SEDIMENT CONTROL NOTES & DETAILS

Project No. 195602497 Revision Sheet

Scale AS SHOWN C-300

PLANS FOR PERMITTING **APRIL 2023**