



### 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 Rivers

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.

<sup>\*</sup>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 bridge control cables, six 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:
  - 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 place 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 1<sup>st</sup> through June 30<sup>th</sup>, 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 1<sup>st</sup> through June 30<sup>th</sup>, 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 1<sup>st</sup> through June 30<sup>th</sup>, 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 1<sup>st</sup> through June 30<sup>th</sup>, 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 1<sup>st</sup> through June 30<sup>th</sup>, 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 1<sup>st</sup> through June 30<sup>th</sup>, 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 1<sup>st</sup> through June 15<sup>th</sup>, 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 1<sup>st</sup> through June 15<sup>th</sup>, 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 1<sup>st</sup> through June 1<sup>st</sup>, 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 1<sup>st</sup> through October 31<sup>st</sup>, 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 15<sup>th</sup> 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: |
|-------------------------------|---|
| Date                          | Emma Cimino Acting Deputy Commissioner                      |
|                               | Department of Energy & Environmental Protection             |

### Bureau of Water Protection & Land Reuse Land & Water Resources Division

79 Elm Street • Hartford, CT 06106-5127

portal.ct.gov/DEEP

Affirmative Action/Equal Opportunity Employer

### **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 <a href="mailto:DEEP.LWRDRegulatory@ct.gov">DEEP.LWRDRegulatory@ct.gov</a> 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 <a href="mailto:DEEP.LWRDRegulatory@ct.gov">DEEP.LWRDRegulatory@ct.gov</a> 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 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 <a href="mailto:DEEP.LWRDRegulatory@ct.gov">DEEP.LWRDRegulatory@ct.gov</a> 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 <a href="DEEP.LWRDRegulatory@ct.gov">DEEP.LWRDRegulatory@ct.gov</a>, 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 <a href="DEEP.LWRDRegulatory@ct.gov">DEEP.LWRDRegulatory@ct.gov</a> 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.

79 Elm Street • Hartford, CT 06106-5127

portal.ct.gov/DEEP

Affirmative Action/Equal Opportunity Employer

### **LWRD DREDGING REPORT**

(To be completed by Licensee)

| License No(s).:   |   |  |                       |
|---|---|--|-----------------------|
| Licensee Name:  |   |  |                       |
| Address of Dredging Activity:   |   |  |                       |
| Dredging Contractor Information: Name:  |   |  |                       |
| Business Phone:   |   |  |                       |
| E moil:   |   |  |                       |
| Dates Dredged:  |   |  | _                     |
| Total Volume Dredged during this properties Disposal Volume(s) and Location(s)  |   |  |                       |
|   |   |  | -                     |
| **If any portion of the dredged mat-<br>use type (i.e. beach nourishment, ha<br>dredged material utilized and the loc                                     | bitat restoration, landfill c   | cap, construction materials), volume                                       |                       |
|   |   |  |                       |
| Document Certification: "I have personally examined and an  | familiar with the informa   | ation submitted in this document an  | d all                 |
| attachments and certify that based o<br>responsible for obtaining the inform<br>best of my knowledge and belief, ar<br>attachments may be punishable as a | n reasonable investigation<br>ation, the submitted inform<br>d I understand that any fa | n, including my inquiry of those indimation is true, accurate and complete | ividuals<br>te to the |
| Signature of Licensee   | Date  |  |                       |
| If you have any questions pertaining at 860-424-3034.   | to this form, please conta  | act the Land & Water Resources Div   | vision                |
| Return to:  |   |  |                       |
| DEEP.LWRDRegulatory@ct.gov 0  | ,   |  |                       |

State of Connecticut Department of Energy & Environmental Protection 79 Elm Street

Hartford, CT 06106-5127

### Bureau of Water Protection & Land Reuse Land & Water Resources Division

79 Elm Street • Hartford, CT 06106-5127

LICENSEE:

(Signature)

**To:** DEEP.LWRDRegulatory@ct.gov or

portal.ct.gov/DEEP

Affirmative Action/Equal Opportunity Employer

### **LWRD Work Commencement Form**

**Regulatory Section** Department of Energy and Environmental Protection Land & Water Resources Division 79 Elm Street Hartford, CT 06106-5127 **Licensee Name:** Municipality in which the project is occurring: DEEP License No(s):\_\_\_\_\_ **CONTRACTOR(s):** # 1 Name: Address: Telephone: E-mail: # 2 Name: Address: Telephone: E-mail: # 3 Name: Address: Telephone: E-mail: Date Contractor(s) received a copy of the license and approved plans: EXPECTED DATE OF COMMENCEMENT OF WORK: \_\_\_\_\_ EXPECTED DATE OF COMPLETION OF WORK:

(Date)

79 Elm Street • Hartford, CT 06106-5127

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Affirmative Action/Equal Opportunity Employer

### **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) "I 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 certificati<br>157b of the General Statutes and under any other applicab  | ·  |  |  |  |  |
| 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   |  |  |  |  |
| <ul> <li>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.</li> </ul> |  |  |  |  |  |
| <ul> <li>The Licensee will be notified by staff of the Land and W<br/>is necessary. Lack of response by LWRD staff does not</li> </ul>  | /ater Resources Division (LWRD) if further compliance review imply compliance.   |  |  |  |  |
| Submit this completed form to :   |  |  |  |  |  |
| <u>DEEP.LWRDRegulatory@ct.gov</u> or<br><b>Regulatory Section</b>   |  |  |  |  |  |
| Department of Energy and Environmental Protection   |  |  |  |  |  |
| Land & Water Resources Division   |  |  |  |  |  |
| 79 Elm Street<br>Hartford, CT 06106-5127  |  |  |  |  |  |

# Amtrak®

OLD SAYBROOK, CONNECTICUT REPLACEMENT OF MB 106.89 OVER CONNECTICUT RIVER

- AMTRAX WILL ONLY SUBART REVISIONS TO C'DEEP AND USAGE FOR CHANGES TO THE DESIGN THAT WILL AFFECT REQUIATED AREAS.
- FOR A DESCRIPTION OF THE WATEROUNSES, WETLANDS, AND WETLAND SOILS SEE RELAVANT SECTIONS OF THE PERMIT APPLICATION.
- THE HOWIZONIAL CONTROLS REFERENCE THE NORTH AMERICAN DATING OF 1985 (NAMSA) AND THE COMMISCITICAL SIMILE PRAYE COGGRINATE SYSTEM, THE VERTICAL DATINA REFERENCE THE NO AMERICAN VERTICAL DATUM OF 1988 (NANDSB).

# **ENVIRONMENTAL AND PERMIT PLANS**



MB 106.89 OVER CONNECTICLIT RIVER VICINITY MAP

Office of Chief Engineer
STRUCTURES

National Paleogn Coopering
308 Street Stock Paleognal Coopering

**Amtrak**®

HARDESTY & HANOVER, LLC

REPLACEMENT OF MB 106.89 OVER CONNECTICUT RIVER

TTL-01

| SHEET NO. | DESCRIPTION   | DRAWING   | SHEET<br>NO.       | DESCRIPTION  | DRAWING<br>NO. | SHEET<br>NO. | DESCRIPTION  | DEAWING<br>NO.   |
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| 11        | EXISTING SITE PLAN  | EX-8  | 62                 | HIGH TIDE LINE IMPACT PLAN   | HTL-09         | 113          | STAGING PLAN - PHASE IV                                    | PH-IV-09         |
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| 9.        | EXISTING SITE PLAN  | EX-13   | 67                 | FEMA FLOODPLAIN IMPACT PLAN  | FEMA-02        | 118          | CIVIL DETAILS  | DTL-02           |
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| 27        | SITE PLAN   | SITE-10   | 78                 | List   | PH-01          | 129          | DRILLED SHAFT TYPICAL DETAILS                              | GEO-07           |
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|           | BRIDGE ELEVATION PROPOSED CONDITIONS  | EL-UI   | 5 8                | STAGING FLAN - PHASE IAB   | THE SECTION    | ROAD MIT     | "CATION SITE" PLANS.                                       |                  |
| + 5       | IMITACI SOMMENT OFFICE  | DOMESTICAL OF   | 25                 | STACK OF THE PROPERTY  | 21-081-01      |              |  |                  |
| 42        | C. CTATE IMPACT DIAN  | 10-10-10-10-10-10-10-10-10-10-10-10-10-1  | 70                 | STAGENS THAN STAGES  | CO SUCI Ha     |              |  |                  |
| 2 2       | CALL STATE BREAK, FLAN  | 20 00   | 200                | STACING PLAN - DEAG NOT  | DHI-ICRE-03    |              |  |                  |
|           | COL DIVILL MATRIC PLAN  | 20-100  | n o                | STACING PLAN - TERSE (CO.  | PHI-ICDE-DO    |              | 5  |                  |
| 2 9       | COL STATE MITAGE FLAN   | 10 10   | 0 0                | DESCRIPTION IN THE PROPERTY OF | PH COE OF      |              |  |                  |
|           | CUL SIMIE MINACI PLAN   | COL-US  | i i                | STAGING PLAN - PRASE COE   | PH-1CDE-US     |              |  |                  |
| 14        | Call STATE IMPACT PLAN  | CIL-06  | NO 10              | SIAGING FLAN - PHASE ICUE  | PH-CDE-08      |              |  |                  |
| 0 0       | COL STATE IMPACT PLAN   | Call of   | 100                | STASING TOWN - THASE COE   | PHILIPPE OF    |              |  |                  |
| 202       | NA STATE INDAOL STATE   | 00 700  | 101                | PANCE OF STREET  | PH-ICOE-09     |              |  |                  |
| 10        | CUL STATE IMPACT PLAN   | CJL-10  | 102                | STACING PLAN - PHASE ICDE  | PH-ICDE-10     |              |  |                  |
|           | Rowstons. Date By   |   |                    | 3  | - Company      |              | out)   |                  |
|           |   | Amtraka   |                    | Office of Chief Engineer   |                |              | HARDESTY & HANOVER, LLC                                    | & HANOVER, I     |
|           | <b>4</b> :  |   | Milleboar          | STRUCTURES   |                |              | 1501 Broadway  | New York, NY 100 |
|           | Passentype Cospicating (Antach)<br>salely for took of connection with the<br>The episted-form, despite, pain or | 6. Office of Engineering, and it supplied on a<br>the design and conditions of Annial facility<br>of other disposition of the insurant within | les entrestations. | National Railcoad Passenger Corporation<br>30m Street Station, Philadelphia, Pennsylvana 19104   |                |              |  |                  |

### PROPOSED Œ TRACK STAGING LEGEND JAND CAPABALE OF SUPPORTING TIDAL VECETATION - ELEVATION 4.1 TEMPORARY CONSTRUCTION FENCE TEMPORARY TURBIDITY CURTAIN MEAN HIGH WATER (MHW) -SOASTAL JURISDICTION LINE (CUL) - ELEVATION 2.9\* MEAN LOW WATER (MLW) -ELEVATION -1.71' BURRED ELECTRIC UTLLTY OVERHEAD ELECTRIC UTLLTY FRA APPROVED TEMPORARY CONSTRUCTION BARRIER TEMPORARY PERIMETER EROSION & SEDIMENTATION CONTRO. TEMA 100 YEAR FLOOD TICH TOE LINE (HTL) -EMPORARY SUPPORT OF XCAVATION/COFFERDAM DOUBLE ARM CANTILEVER CATENARY STRUCTURE SINGLE ARM CANTILEVER CIVIL LEGEND INIT OF DISTURBANCE METLAND DELINEATION CATENARY STRUCTURE TRACK CENTERLINE CHAIN LINK FENCE TEMPORARY TRESTLE STRUCTURE SMTRAK R.D.W LINE FIBEROPTIC UTILITY SANITARY UTILITY RETAINING WALL EXISTING TRACK PROPERTY L'VE SASEMENT LINE WATER UTILITY LIMIT OF CUT UTILITY POLE TREELINE (H) (3) - 175 F. F. F. F. - "East 162 -- 1345 199 EXISTING - LCSTV-167+5620 - LCSTV ALL CONTRACTOR AND SJECONTRACTORS, ON—SITE PERSONNEL WILL BE FEQUIRED TO ATTEND AMTRAK WORKER PROJECTON AND CONTRACTOR SAFETY TRAINING SOFTEN THE SAFETY TRAINING CONSETS OF AN ONLINE COURSE HOSTED ON AMTRAK'S WEBSITE AND MUST BE RENEWED ON A YTRAIN YEASTE. THE HORIZONTAL CONTROLS REFERENCE THE NORTH AMERICAN DATUM OF 1983, (MADS3) AND THE CONNECTICUT STATE PLANE COORDINATE SYSTEM. ENSITEMES SYSTEM. STATE PLANE COORDINATE SYSTEM. THE VEHICLAL DATUM REPRENCAL DATUM OF 1988 (NAVD 88). 1. EQNISTRUCTION ON THIS CONTRACT SHALL MYNIMIZE IMPACTS TO FAULROAD OPERATIONS, THE CONTRACTOR SHALL COORGINATE TRACK OUTAGES WITH THE CONSTRUCTION MANAGER. 500 YR W/ SPRING TIDE 195,553 CFS WEST ABUTMENT: 24.9 PIER 7: 25.1 (1) NOMA PUBLISHED DATA, FOR TIDAL GAUGE STATION NO. 3462764, LYME HWY, BR. CT. RIVER CT. (2) UPWARD IDAL, POPILES OR THE NEW REIGHAD CONSTITUS. (3) USACE, NORTH ATTIMITÉ CONST. COMPRÉHISSIVE. STUDY (NAIGES, 4) CONSTITUTING CONST. COMPRÉHISSIVE. STUDY (NAIGES, 4) CONSTITUTION OF STRUME NAIVES REPORT, MAGNET 2023. 1919 E 19 1225 136,495 CFS 10.42 FT 10.30 FT

(ZONE VE) = (ZONE AE) = (ZONE VE) = VE) =

TO 106+4650± ( TC 107+0390± ( TO 107+1850± ( TO EAST (ZONE VI

ABUTMENT, SOUTH BANK STA T2 106+2950± ABUTMENT, SOUTH BANK STA 72 106+4650± ABUTMENT, SOUTH BANK STA 72 107+0330± ABUTMENT, SOUTH BANK STA 72 107+1850±

EAST EAST EAST EAST

NAV388 -29.89 FT

HYDRAULC DATA

MINIMUM CABLE

-1.89 FT (3) -1.71 FT (1)

MEAN LOWER LOW WATER (M.L.L.W.)
MEAN LOW WATER (M.L.W.)
MEAN HIGH WATER (M.L.W.) MASTAL JURISDICTION LINE (C.J.L.)

FT (2) (1) TH (8)

5.4 FT (3)

GH TIDE LINE

EAST ABUTMENT, NORTH BANK STA 72 1084-338512 TO 1084-44754. (20NE EAST ABUTMENT, NORTH BANK STA 72 1084-447594 TO 107-55004 (20NE EAST ABUTMENT, NORTH BANK STA 72 1074-18504 TO 107-18504 (20NE EAST ABUTMENT, NORTH BANK STA 72 1074-18504 TO EAST (20NE ES)

KEY WATER ELEVATIONS AT PROJECT SITE (NAVD 88)

FEWA 100-YEAR FLOOD PLAIN BASE FLOOD ELEWATIONS (BFE): WEST ABUTMENT, NORTH BANK (ZONE AE) -

WEST ABUTMENT, SOUTH BANK (ZONE VE) -

HORIZONTAL AND VERTICAL CONTROL DATUM

SAFETY TRAINING

2 ĸ.

ci TRACK DUTAGES

FOR = ENGINEER OF RECORD
REG = RESIDENT ENGINEER'S OFFICE

DEFINITIONS

|  | Office of Chief Engineer   |
|--|--|
|  | STOLLTIOLS   |
| dis several by and is the side and andabra property of the National Resident   | りはとうこうこと   |
| The program of immany, Office of Cagnesaring, and it suights to accept the fine of<br>a contenession with the design and construction of the design and controlled in an explanation.<br>The contenession of the content of the operation of the operation of the program of the content of the operation o | National Railroad Passenger Corporation.<br>3Cth Street Station, Philodelphia, Pennsylvana 19504 |

HARDESTY & HANOVER, LLC

1501 Brossy New York, NY 10035

1501 Brossy New York, NY 10035

1501 Prolodelpto, PA 19103 

REPLACEMENT OF MB 106.89
OVER CONNECTICUT RIVER
GENERAL CIVIL NOTES & LEGEND
a 38 Ohum 1890 | Circles An | One 502023

TRACK TO BE SHIFTED

RAISE AND SURFACE

CONSTRUCT NEW

Properticide XXX XXX XXX Wees Sheet No. 3 OF 145

THE THE RECOVERED TO STATE OF STATE OF

ENVIRONMENTAL PERMIT PLANS PLAN DATE: MAY 2, 2023

"\*ALL ELEMATIONS SHOWN ARE APPROXIMATE AND CONTANS AN ACCURACY OF 0.10" ± BASED ON RELATION WITH THE USOS AND NOAM GAUGE BENCHAMARKS INTERPOLATION AND FILLD PERFORMAN.

SOC YR W/ SPRING TIDE

(36,495 CFS (4)

8.53 FT (4)

DESIGN WATER SURFACE ELEVATION-COWNSTREAM

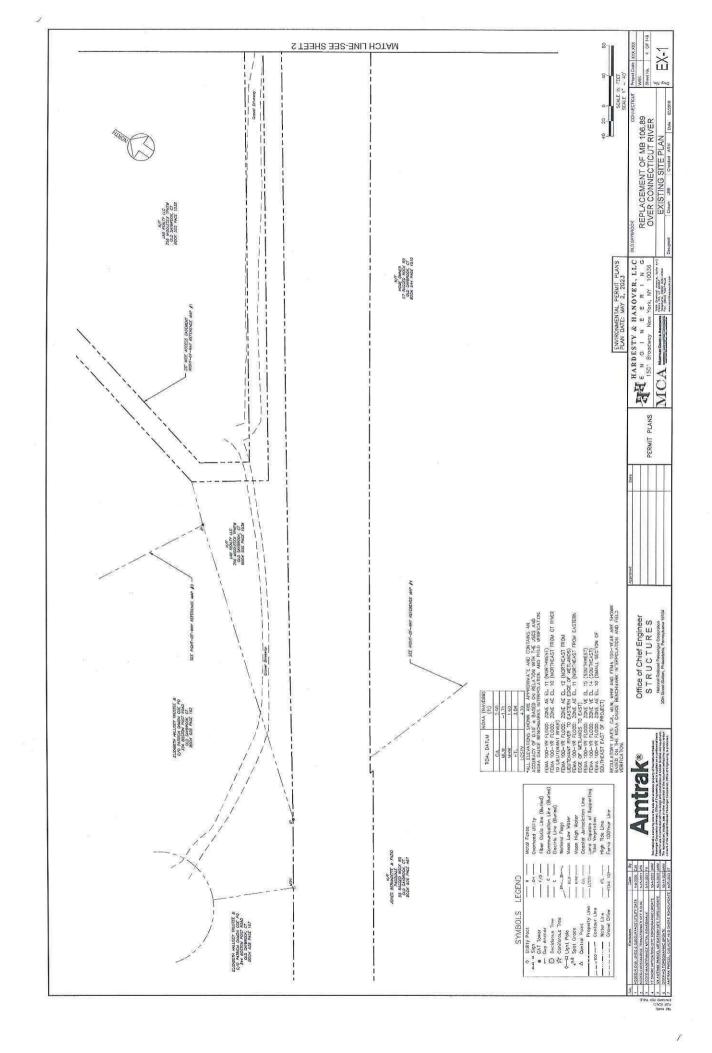
MAXIMUM SCOUR ELEVATION

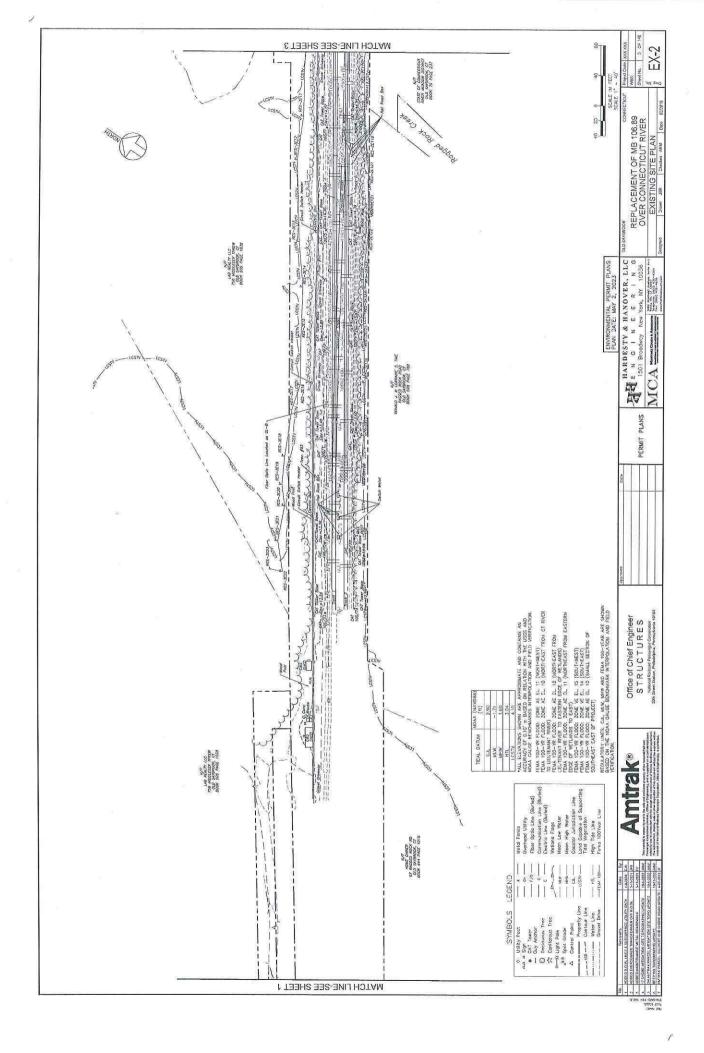
FREGUENCY

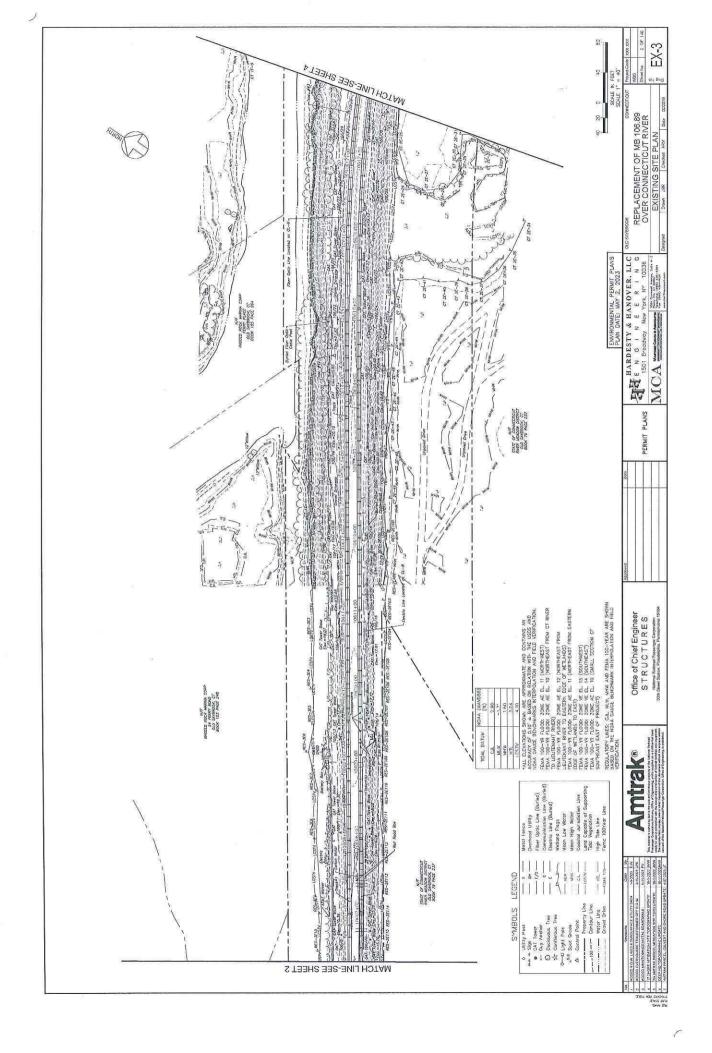
DESIGN WATER SURFACE ELEVATION-UPSTREAM

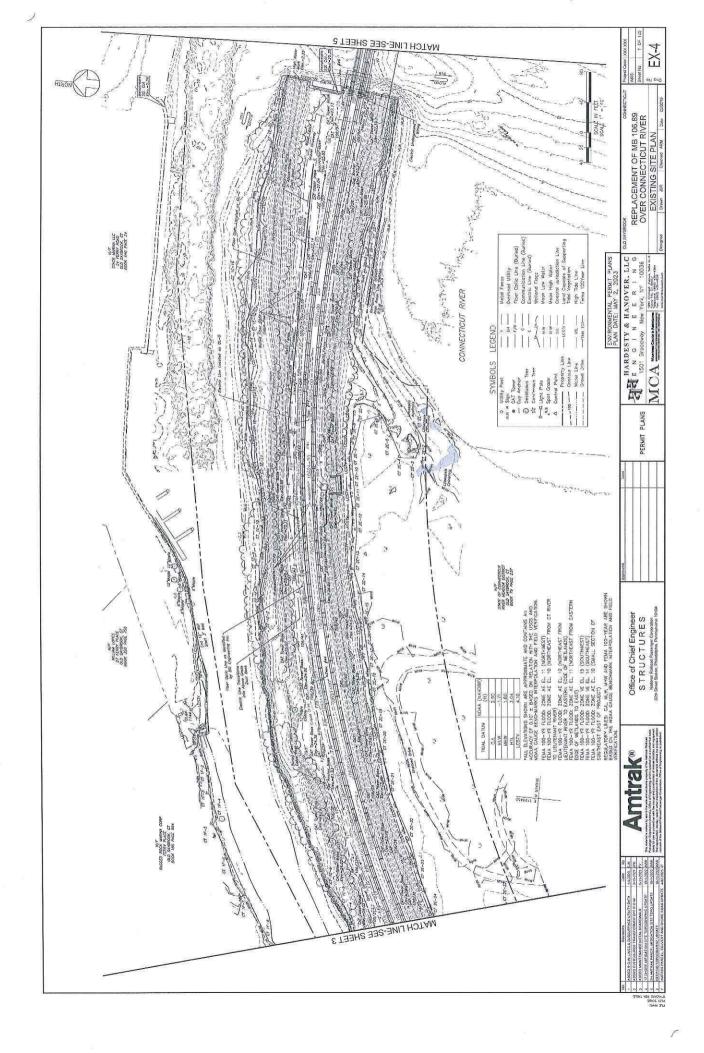
DESIGN DISCHARGE

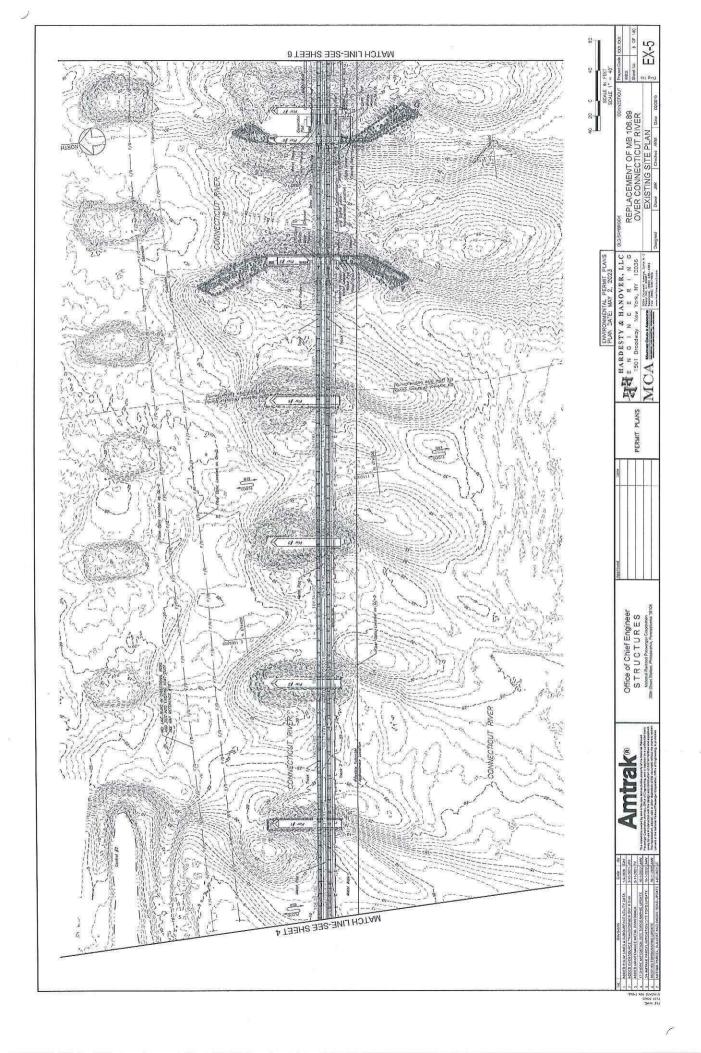
DISCHARGE
135.5.3 CFS
WORST CASE SCOUR, SUBSTRUCTURE UNIT, DEPTH WEST ABUTHENT, 24.9

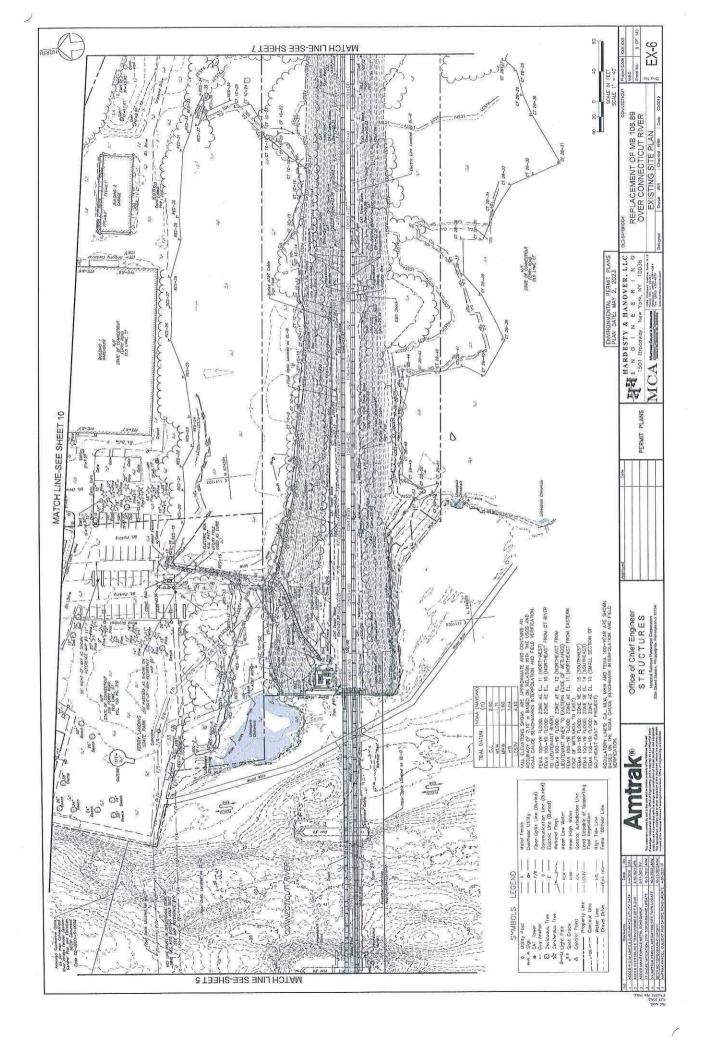


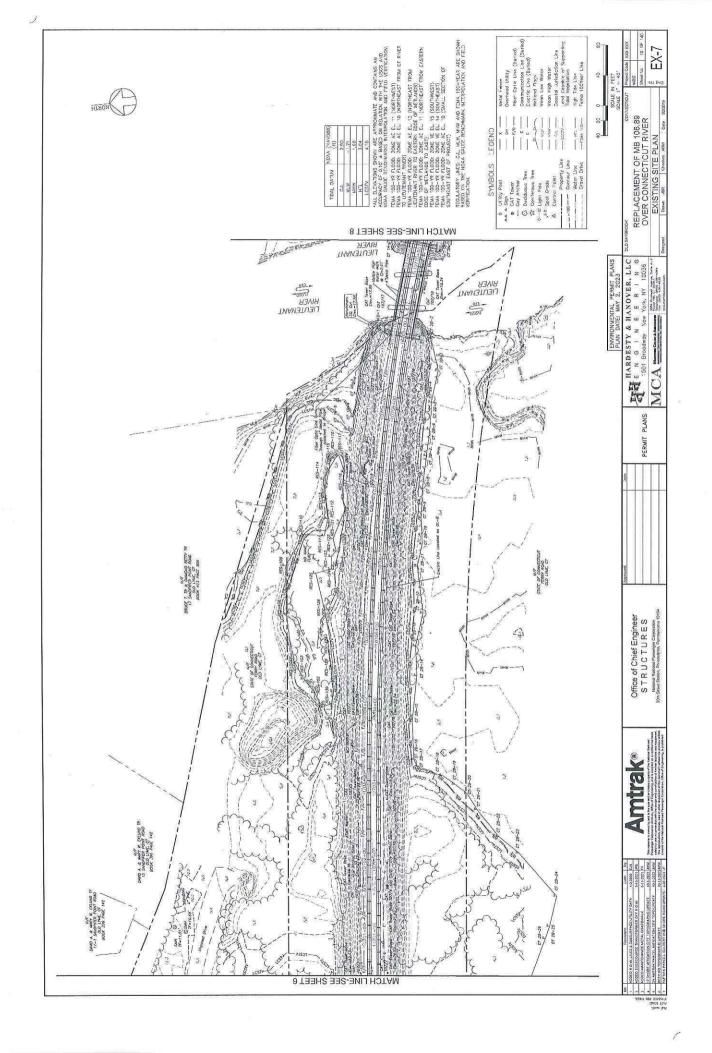


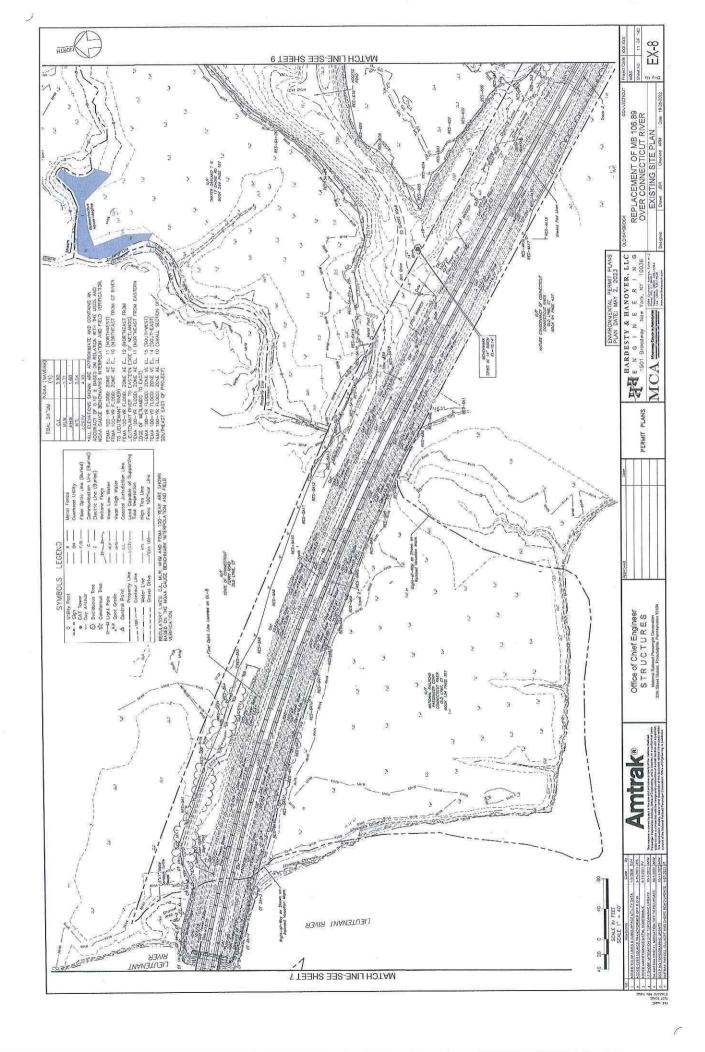


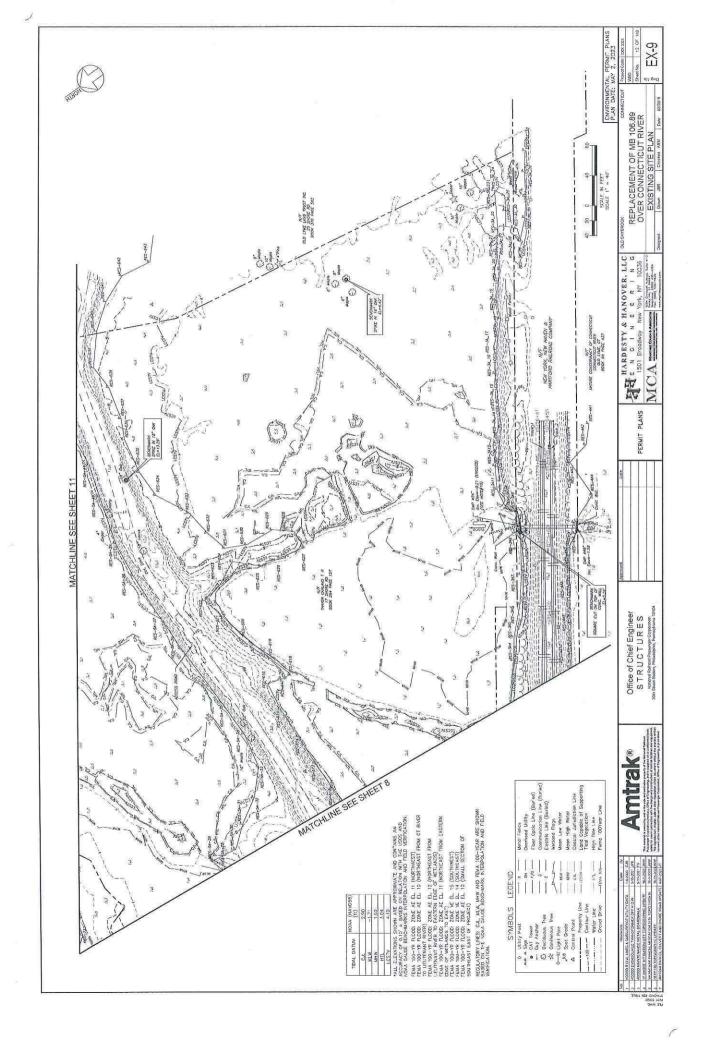


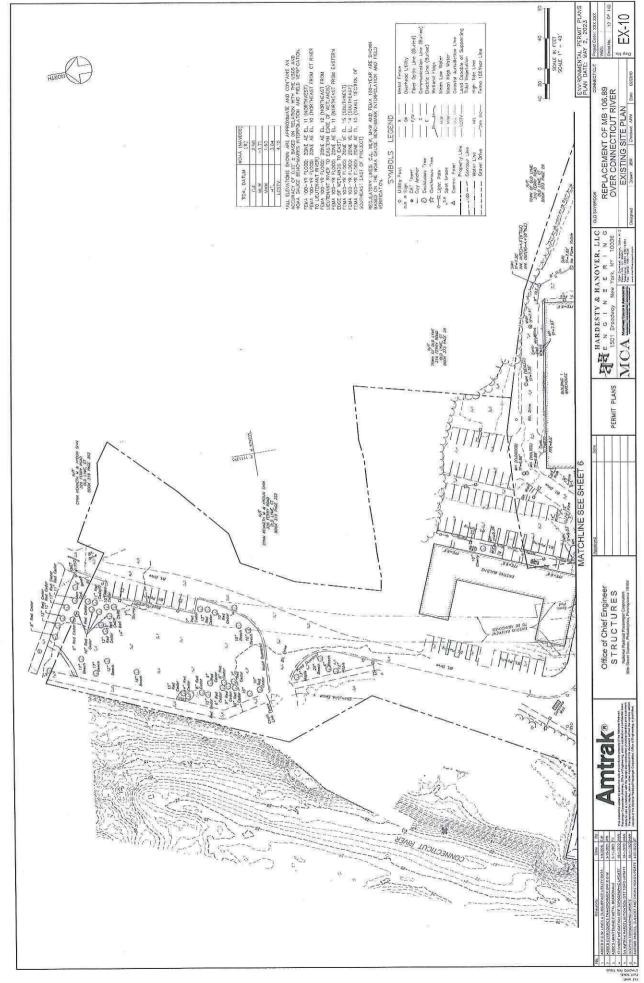




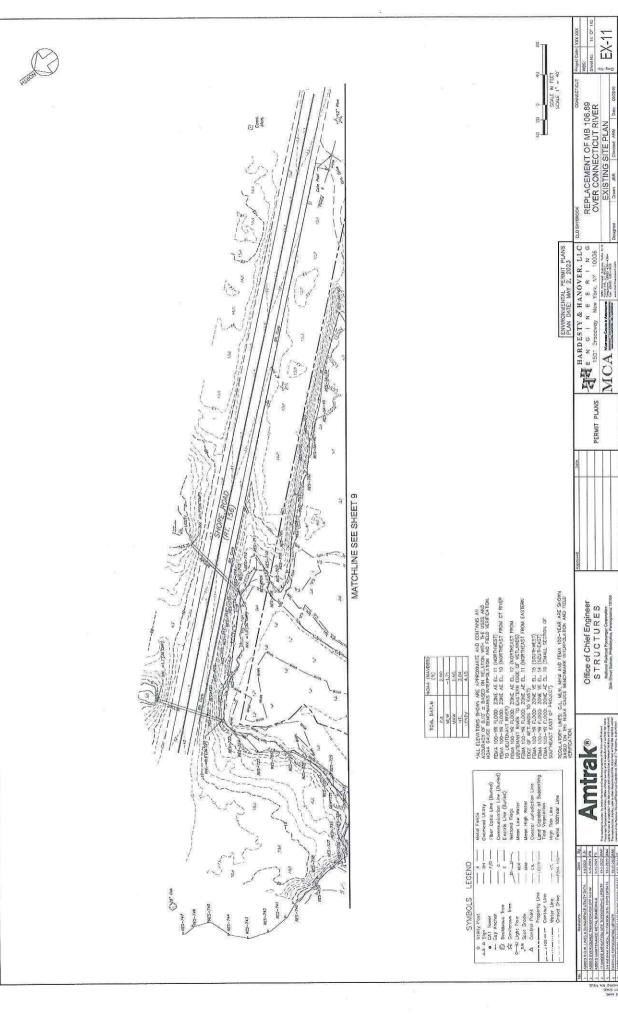


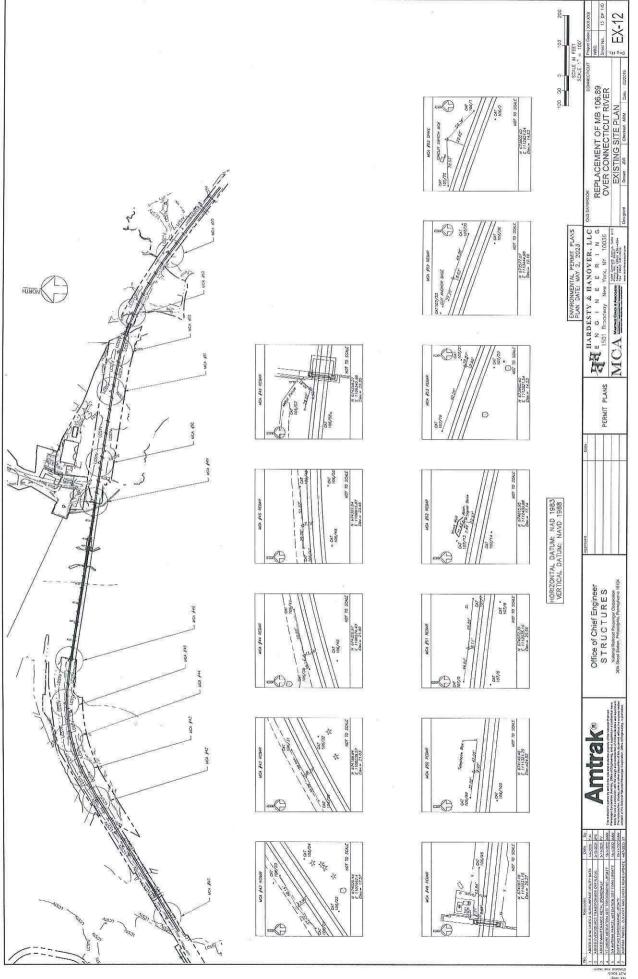






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- \*ESSERY WAS SHOWNG ACCESS LYSEMENTS ACROSS THE PROPERTIES OF WORTON H: SIJENSTERN AND COLFINAL EXCLORATION. LLD BRSTON POST ROLD OLD SKYBROOK CONVECTION" SOLLE: 1"-100", BY ANDS WEDGOMALD, CHRY SHARPE & ASSOCIATES, INC., TOWN OF OLD SKYBROOK UAP # 2423 AND DATED AND ALLS 1998.
  - "SLEWEY PLAN SHOWNE ELESHBIT TO BE DOWNETED TO THE CONNECTION WITE COMPANY ON PROPERTY OF MORTON H. SLEWESTBIK JUD. BOSTON POST NOW OLD SATRENON CONNECTIONT, SOLLE: 1=105, SP AND MAIS MODOWINGTOWN SHAPE & ASSOCIATES, NC., TONN OF OLD SATRENON LAW # 7783. AND DATES CONDER 17, 1986.

CERTAN UNITES SFOWN HAVE BEEN PARCON ON THE DEPOLATION USING LECENTOR DESIGNATION TECHNOLISES. SESSIANTION, OF LECENTRIAN ONLY LECENTRAL OF THE STREET OF THE SHERAGE COATION OF A UTILITY LIKE BASED ON ALECENOR CERCHARGE OF THE SPRECERING TECHNOLISES AND IS APPROXIMATE IN RELATION TO THE ACTUAL.

THIS PLAN WAS PREPARED IN CONFORMANCE WITH THE AMERICAN SCREETY OF DAYL ENGINEERS STANDARD CALLECTON AND DEPICTION OF ENSING SUBSURFACE UTILITY DAYN.

CERTAIN UTUTIES SHOWN HAVE BEEN TAKEN FROM AVAILABLE REDORD INFORMATION: THESE UTUTIES MAY NOT HAVE BEEN VERFIED. (SEE NOTE #4 BELOW.)

UNJESS NON-DESTRUCTIVE, ARE-VACULA EXCAVATION IS UTILIZED AT A PARTICULAR LOCATION, MCA AND BSIE DO NOT GUARANTEE. THE EXISTENCE OR NON-EXISTANCE OF UTILITY LINES.

ALL EXISTING DESIGNATED UTLITIES NERS PROPORED CONSTRUCTION SCIOLLD BE EXACLTY LOCATED USING NON-DESIGNATION ARMADON, IF NOT ALREADY LOCATED BY ARMADON, EXCAVATION (SEE CAALITY EXCL. A ADMINISTED.

AT LOCATONS, WHERE BRE IS DRECTED TO PERFORM NON-DESTRUCTIVE AR-ANCOLUM EDGNATION. THE TEST OFCE IS ADVANCED TO ALL A COMMITTION OF PRACTICITY BETSSALE OR THE ANCOLUM EDGNATION IS RECORDED ON COET IS ADVANCED TO A DEPTH OF 92 (EASH FEET), PRACTICIL, RETURE, BEND GETNED AS BACCONSTRENCE, INTUITY, REPROPER, WHITE YELL, LARGE ROCKS/ CORBLES, SUSPECTED MAZARODIS WATERALS OR A CANDITION OF HOLE WASHIELTY.

MERGE SER ES DRECIDE DO PERFORM VALLE DESTRUCTIVE, AND ALCAVICATUR DECACATANT OF DESTRUCTIVE MY NON-ESSTANCE OF UTLITIES, BEST WILL ONLY REPORTED FROM CHESTAME OF UTLITIES, BEST WILL ONLY REPORTED FROM THE USBELL UNITS OF THE SEATON TO THE SEATON OF THE ARRANGOUS DESTRUCTIVE SET AS ARRANGOUS DESTRUCTIVE SET AS ARRANGOUS DESTRUCTIVE AS THE SAME

9) PRIDR TO ANY EXCAVATING, BBIE RECOMMENDS THAT ALL UTILITY OWNERS SHOULD REVIEW THIS DRAWING FOR ACCURACY AND COMPLETENESS.

UTILITY QUAUTY LEVEL INFORMATION, NOEX (SEE ASCE/CL 38-02).

B) BELOW GROUND STRUCTURES UNLESS OTHERWISE DEPICTED ARE SYMBOLIC CALY.

- PROFESS PLAN OF PROCHOGUET SWITZENEL, PROKENDO OF OUT-CLE. HILLSTY & READS.

  REACHING MESTING PEST FROM OLD SANTSCOCK COMMETICAL", SCALE, 1"—SC, BY ANKUS L. HADDANDA &

  RESCOLATE, THE ACTION FOR FOR THE SANTSCOCK NAME | 1"—SC, DATED APR. 26, 1976 AND LAST REDISED ON

  SEPT 1, 1977, "
  - "MAP OF PROPERTY OF RUSSELL F, MULDANY, DOUGLAS M, MULDANY, AND JANGE E, MHILL FERRY DISTRICT ON A SAFRONCY, COWN, "SOULL TI'-de, FURBATH OF OLD SAFRINGON, COWN," FOR DOUGLASS WHIP # 645, DATED OFF, 7, 1957 NOT USS REVISED ON AGE, 6, 1951.
    - "TITE LAND TO BE ACQUIRED BY THE STATE OF CONNECTICUT FROM PRUDENTIAL PRESS INC, FERRY ROAD LONG, TO, SACHE, "SSO, SHEET 1 OF 2 BY RUBERT M, BOWERS SR., TOWN OF OLD LINE MAP # 2333, MOD DATED PRILED, PRILED, 1982.
- LAND IN CLD LYNE, DONN TO BE CONVEYED TO JAMES AND LOUISE WYEROS", SDALE: 1"=100", TOWN OF CLD LYNE WAP # 10, AND DATED MARCH, 1951.
- RESUBANCISAN PLANF IMPROPERTY OF DAVIOUR J. CHAIRD A. MAYNY. LEGAUS FERRY SADA, & SACHOFREP. PEMER TOND OLD UNKE, COMMICTIONITY SHEET, 3 of 6, SOME, 1"+-60", 31' ARIUS MEDIVALD, GARY SHYREP. & ASSOCIATES, NC., TOWN OF OLD LIME MAP 4,372°, DATED MARCH, 17, 2009. AND USET REVISED ON 11-4-09.
- PROGRENY SENERY FURN PROFESTY OF REGRETS A COLLAND. & LETTIFICAL, OL TEXTERS, A CULTURE TO SENERY. PROPERTY PROPERTY PROFESTY ON THE TEXT OF THE TEXT
- "EASKART PROPERTY PLAY" D.E.P. MARINE HEADQUAPTERS, OLD LYME, CONNECTICIT, EXHBIT "A" SHEET 3 OF 4, SCALE: 1"=50", BY ANTHONY HEADRAKS, TOWN OF OLD LYME WAP # 2284.
  - "NORTHEND ELECTRETICATION PROJECT ANTRAK, PROJECT # DIJOHI-OH NEW LONDON TO NEW HAVEN", SCALE: 1"-BD, BY MG, TELECOMMUNICATIONS CORPORATION LIGHTWAVE SYSTEMS, DATED 12/22/04,

1) THE SURVEY HAS BEEN RIGHARD WE ACKNOWN WE SETTONORCO-BOARD THRU SACKNOWN OF WE SET OF CONTROL OF THE STATE OF THE S

WALTY LEVEL SI, "D. B". UTILTY INFORMATION DERVED BY ESTABLISHING THE APPROXIMATE SUFFACE HORIZONTAL ACKNOW OF A UTILY USING LECETRICAL WITHOUS AS A DAIL WITHOUTH IS SUBSEQUENTLY FILE.) SHAVEY LOCATED AND ACKNOWATELY REJUGED ONTO THE DESIGNATION DOQUENTS.

JUALITY LEVEL A: "CLL A". LITLIY INFORMATION WHICH HAS BEEN VISUALLY VERFIED, SURVEY LOCATED (BOTH SUBSTONTALLY AND VERTICALLY) AND ACCOUNTER PRODUCED NOT THE DESIGN/CONSTRUCTION DOCUMENTS. THIS IS PPOCALLY SHOWN AS TEST HAD BE ON CHIER DIREXISIONED INFORMATION.

QUALITY LEE, Q. "Q. UTITY NROWATHN, GTANIES, AND CATFORDED, AS Q. G. GOTTED TO CORRELATE WITH SUBFACE DILLY FELANGES WHICH HAVE BEEN RED. MERRED, SURFIT COLIES, AND ACCOUNTED TO ROBACING ON TO THE ESBACK/ANSTRACTION DOCUMENTS INCLUDED IN THIS CATEGORY AGRAL, UTITY NROMEMENTON AND UTILITY THE CORRESPONDED OF PREFESSIONAL WORNING OF THE SUBSERVACE UTILITY DANIES, REPRESENT THE WOST PROBABLE JAPPORAMET BURGORNEL, LOCATION, "THE AND/OR EXISTING OF A UTILITY.

MORNALLY TEST, DY, "No. ") UTLLY NYOMATRIN PLOYTED BY "THE DAVAMOR BASED SALELY ON RECEIPE INFORMATION, MORNALLA RECOLLERIORS OF THE SALE FOR THE NOTE THAT ALL INFORMATION, SHOWN OWNER THAN AT ITEST MOLIL LOADINGS, SEE OF A FEROMY, INCLUDING DIT NOT THE THALL LOADINGS, SEE OF A FEROMY, INCLUDING DIT NOT THE THALL CONTROLLY, CONTINUE, AND CARELED, 145. G. G. G. B. B.

- NORTH DRIENTATION REFERS TO CONNECTICUT GRID SYSTEM NAD 83.
- 3) ELEVATIONS ARE BASED ON NAVO 88.
- THESE TIES WERE DEVELOEDS FROM THE BASE CAD DRAWING AND ARE NOT RELD CENERATED TIES. THE DEFINED SERVICES ERPORTED HEEDEN WARE BASED UNIT BE ORDERED FROM THE MINIMULAL CONTROL, FORMERS) TO THE SENTEN OF THE TIE ORDERED AS MESSARED FROM THE CONTROL OF CAN'T.
  - THE TIES DEPIDITED HEREON ARE ACTING AS A REFERENCE IN THE RECOVERY OF THE CONTROL POINTS ONLY, THEY ARE NOT INTENDED AS A MEANS TO REPLACE OR RESET ANY OF THE CONTROL POINTS.

6) SUBMARINE CABLES SHOWN HERCON ARE BASICO ON AVAILABLE MAPPING AND FIELD OBSERVATION. 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 DEPORTED BY KERIAL MAGERY.
  - ALL UTILITIES DEPICTED AT "QUALITY LEVEL C" UNLESS LABELED "QLB" OR "QLD".
- REQUATORY LUKES, CL. MAY, MAY AND FISM 1:00—VEAR ARE SYONN BASED ON THE VIOLA GALDE ESUCHAMON INTERPOLATION AND FIELD MEMORATION ELEVATIONS SHOWN IN TABLE ARE PROPORTIONALT AND CONTAINS AN ACCURACY OF GLUE ± BASED ON RELATION WITH THE USES AND WOAA GAGE ESICHAMONS INTERPOLATION AND
- 10) BASED ON FELD MEASUREMENT, THE CULNERT PIPE UNDER THE RAILEDD APPEARS TO BE 54" ON THE MORTH-SING OF THE BANKE, DUE TO PER EBROSION AND POREMILE COLOMPESSION OF PIPE, AND THE PIPE DAILED IN THE DAIL THE DEPOLIT TO CONTINE, THE PIPE ON THE SOUTH EIGO OF THE COLUMPS IS IN TACT AND MEASURABLE.

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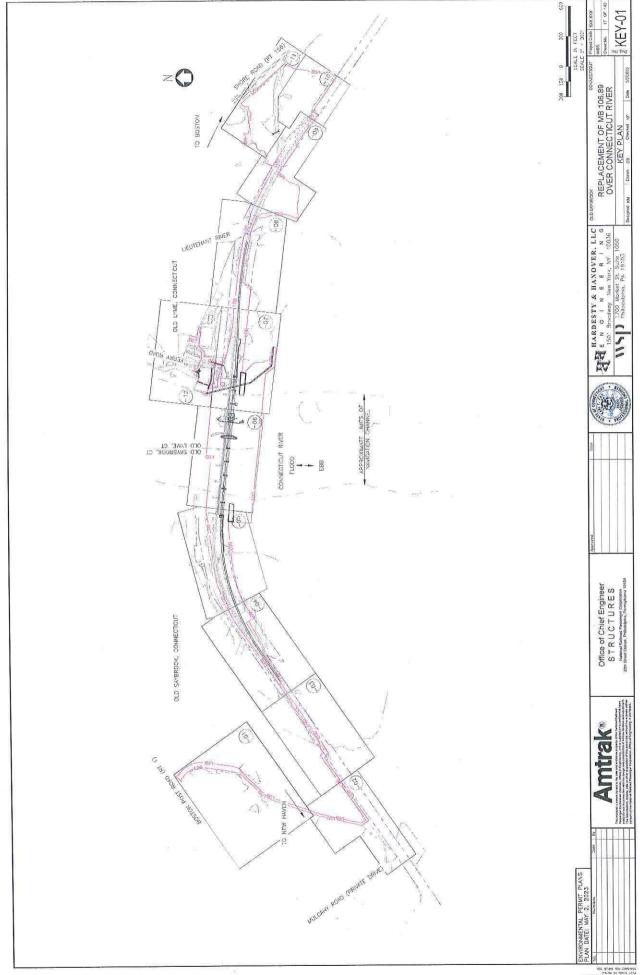
| Office of Chief Engineer | STRUCTURES | National Railload Passenger, Corporation<br>30th Street Statum, Philadelphia, Permaylvania 19104 |
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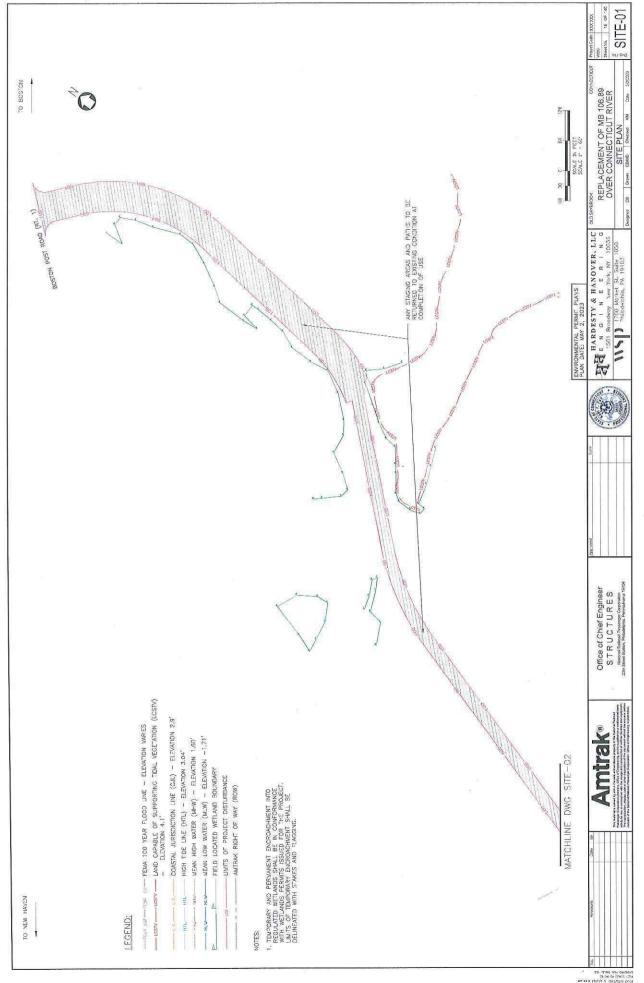
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|        |       | PERMIT PLANS |        |   |
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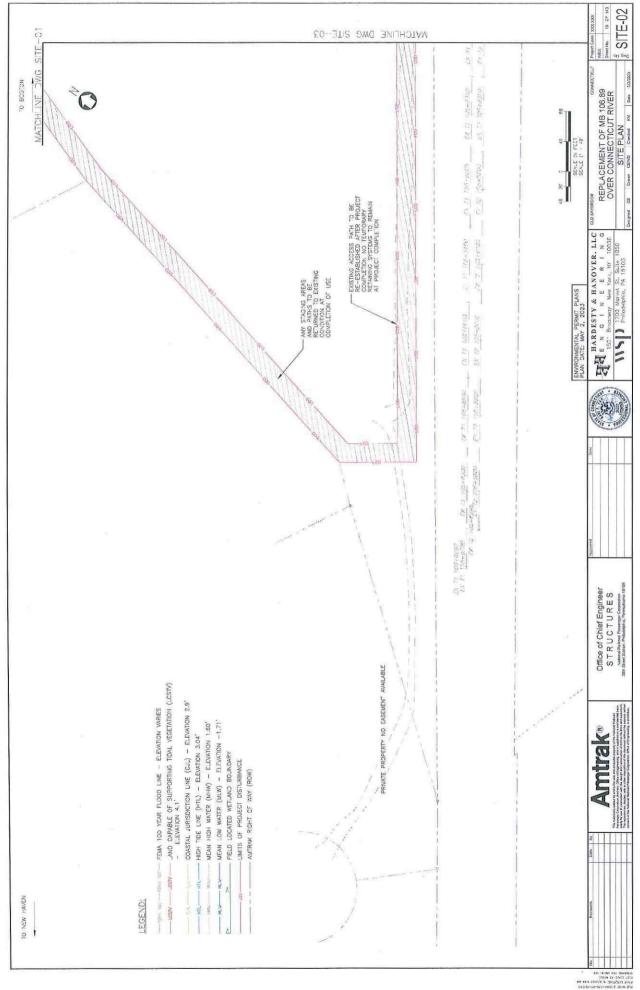
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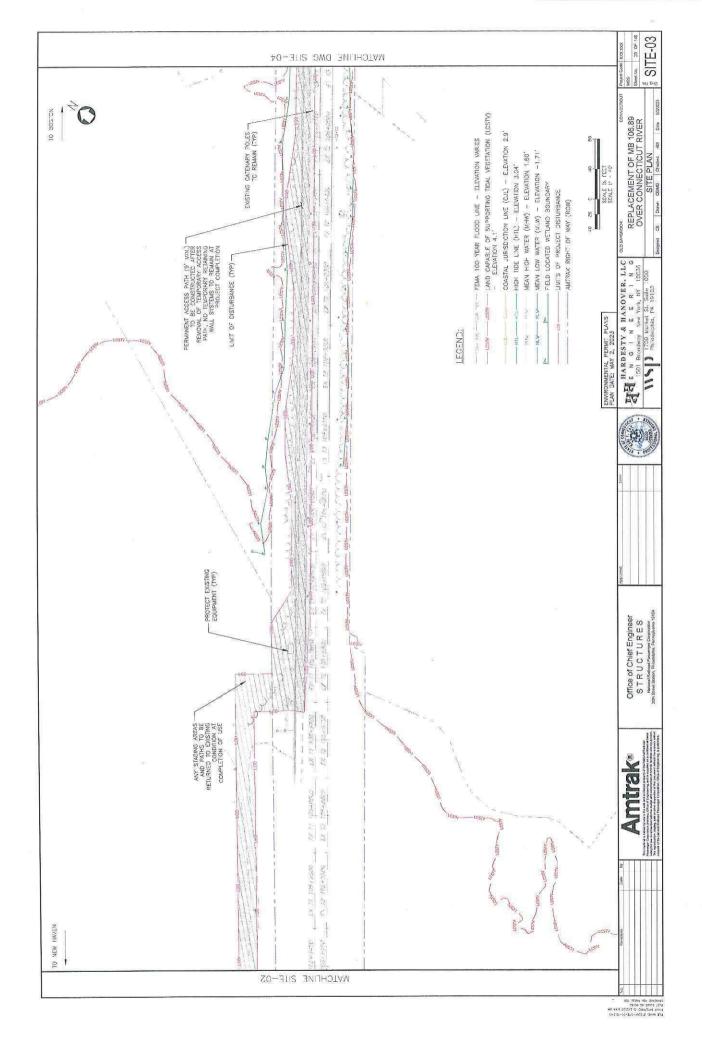
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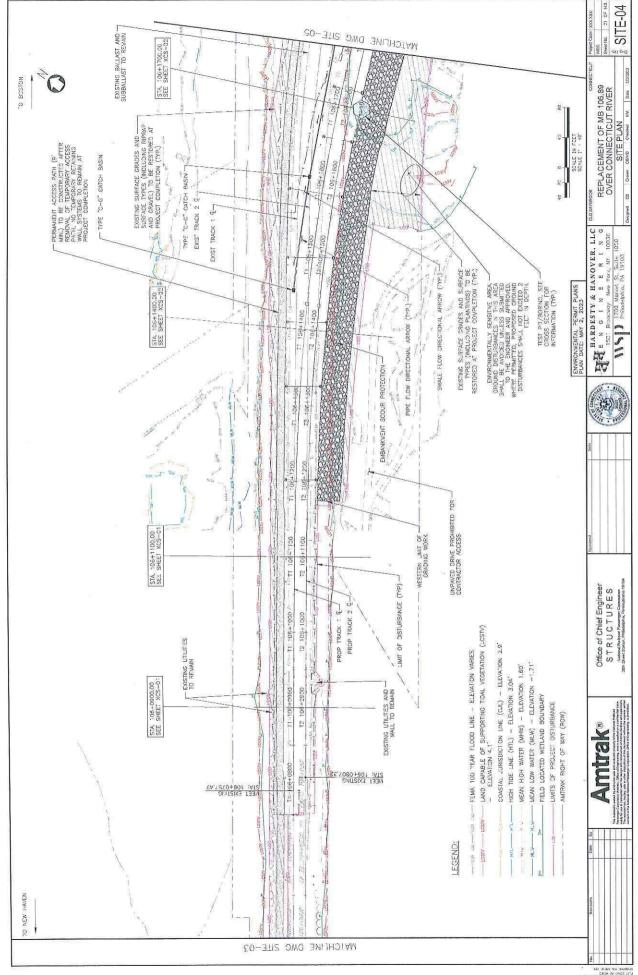




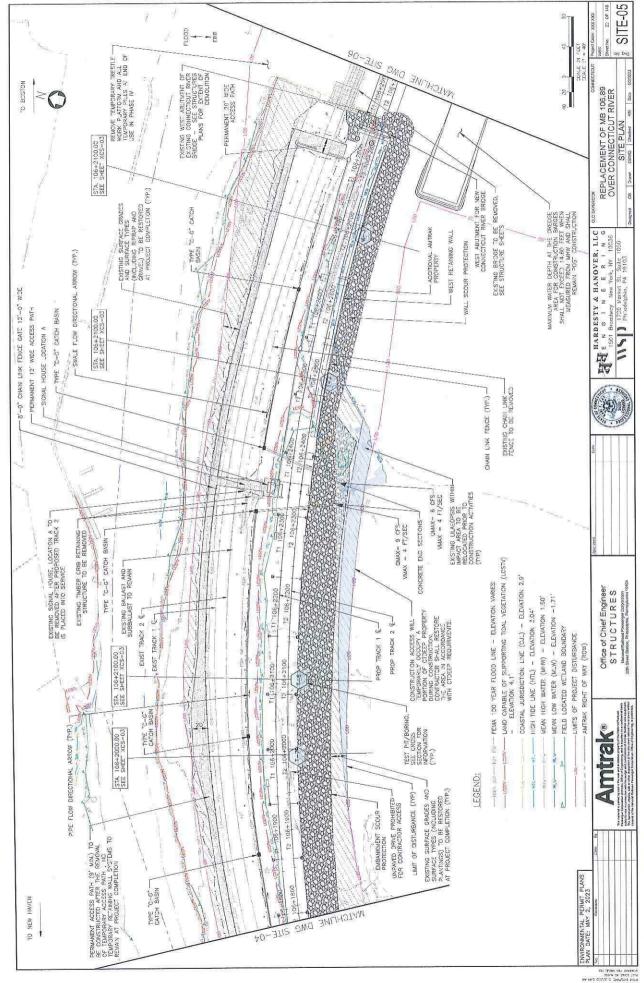
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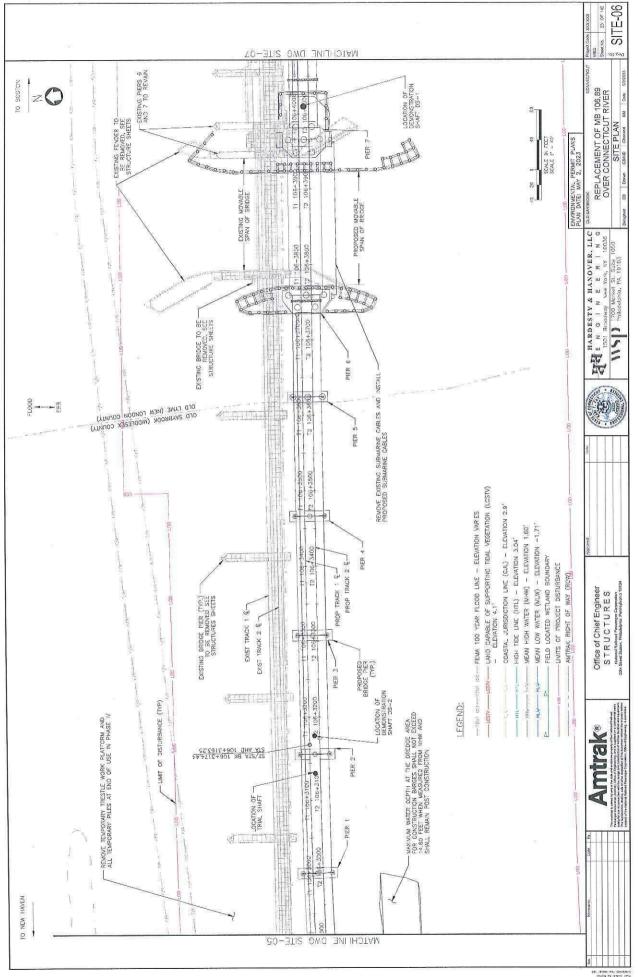


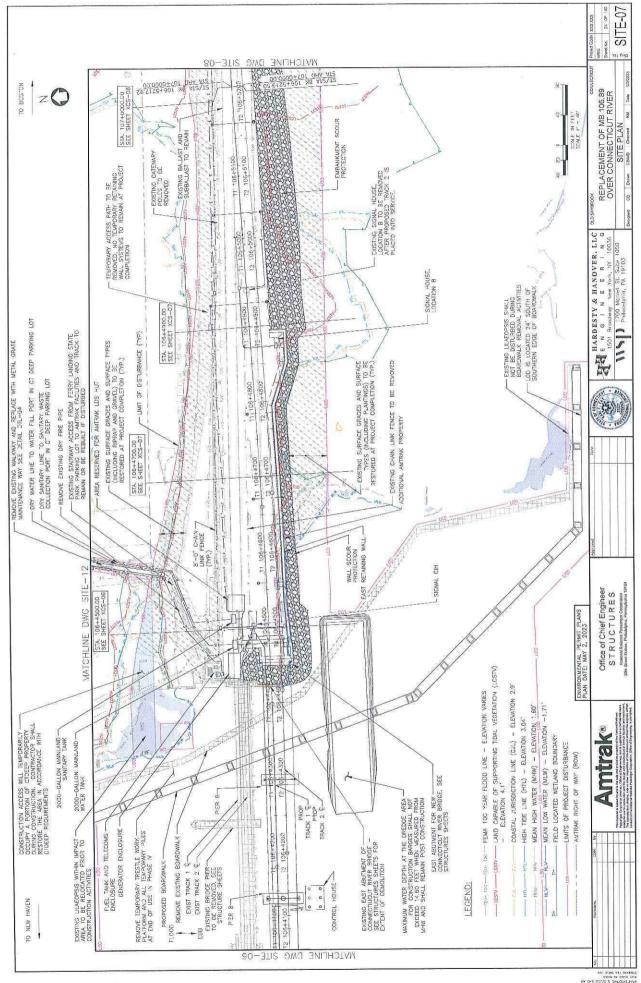


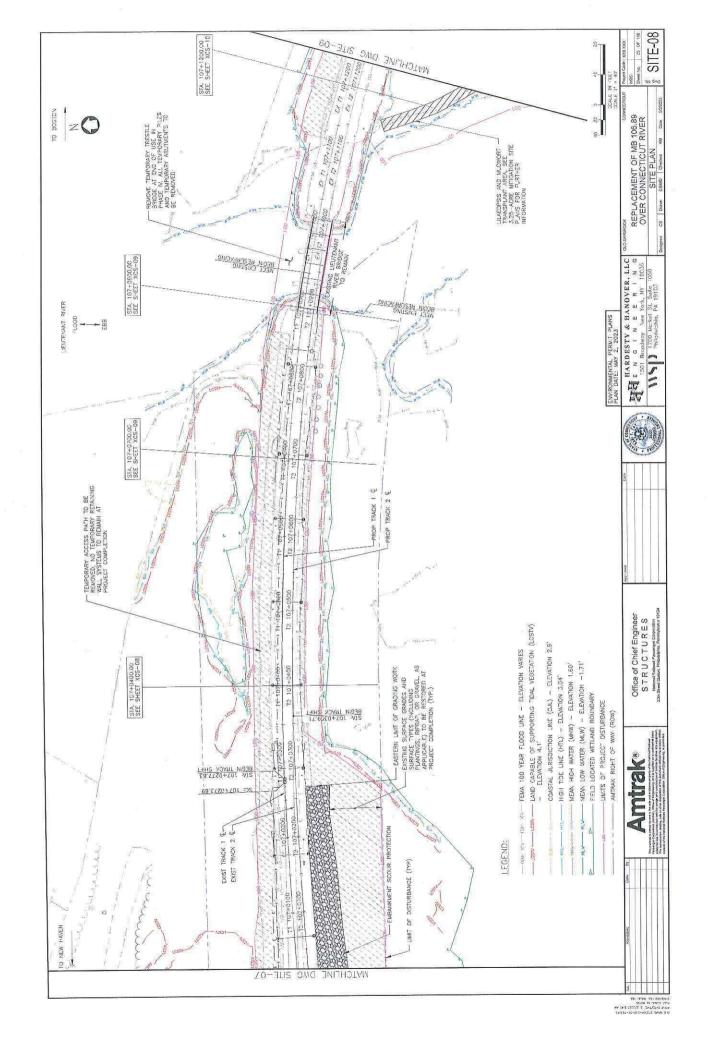


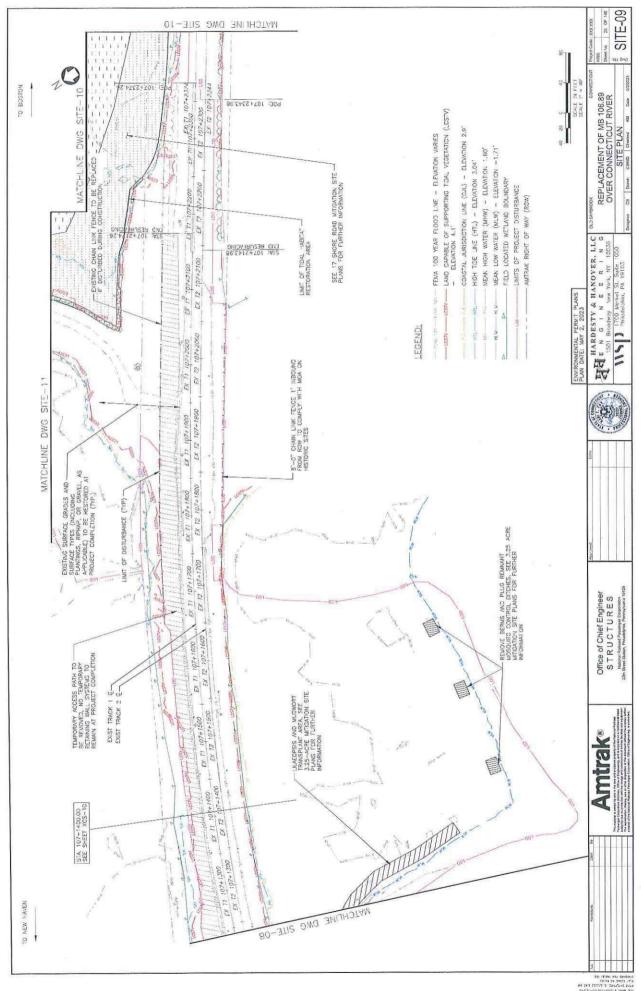
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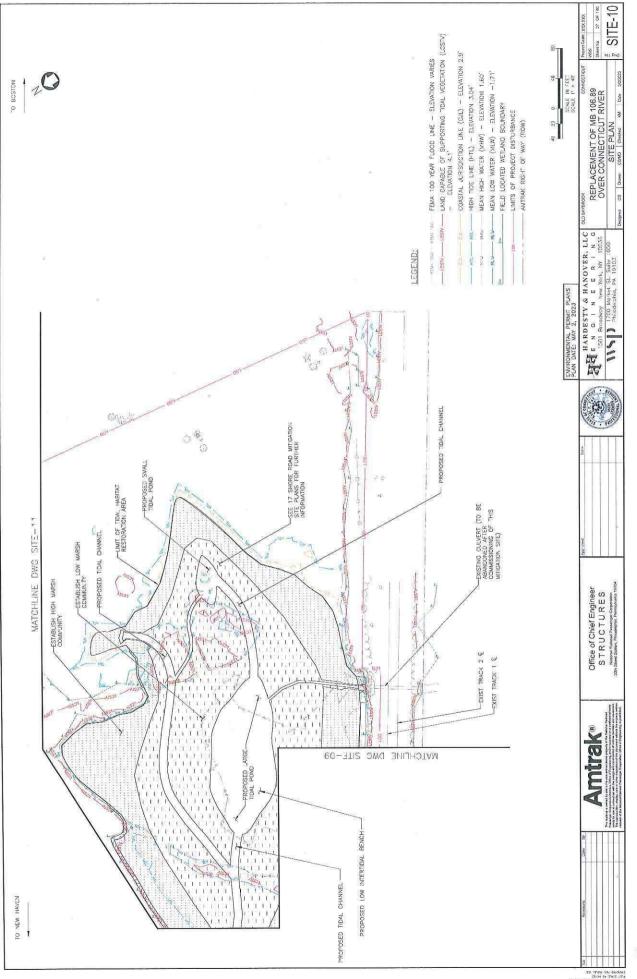




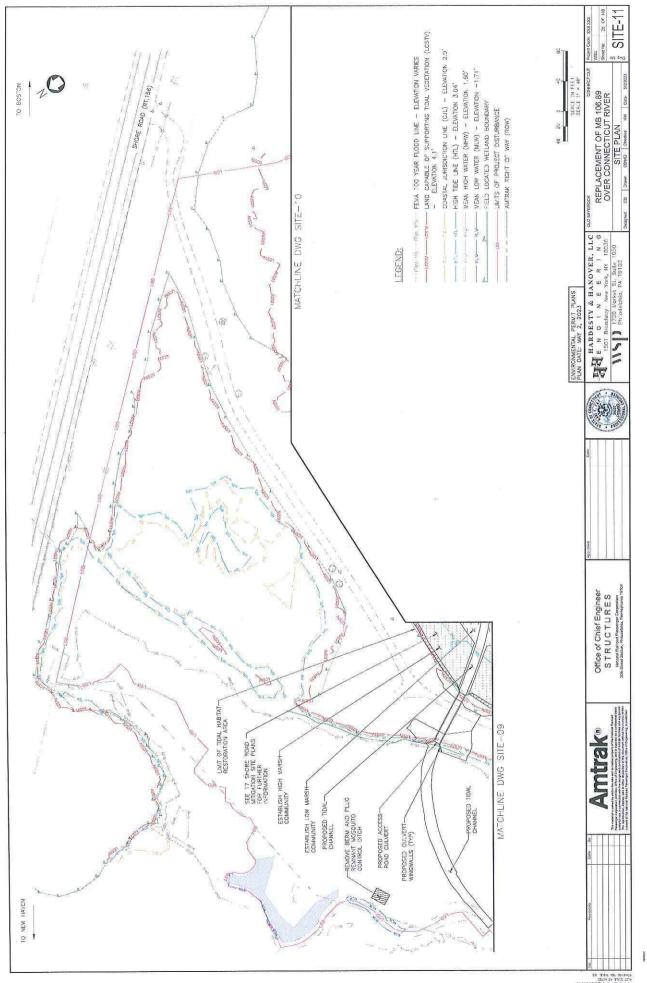


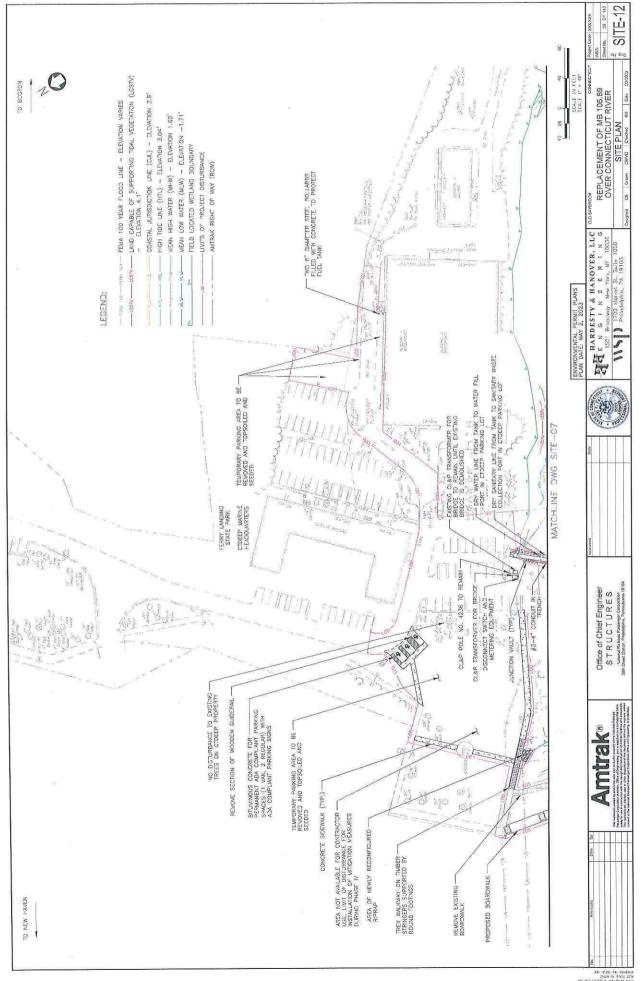


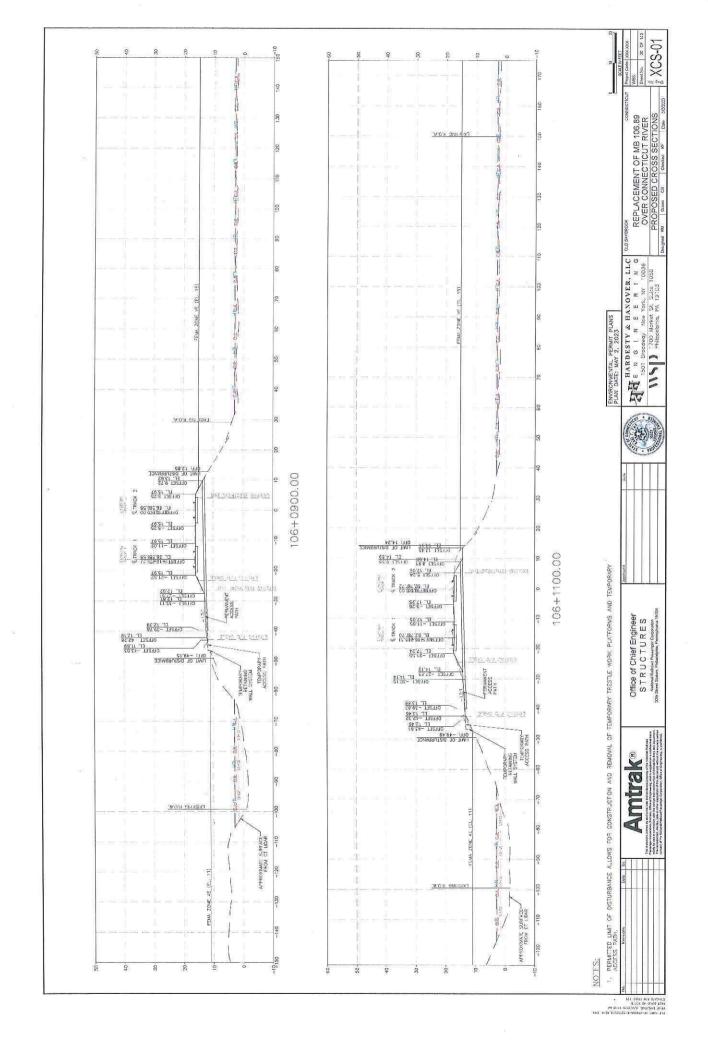


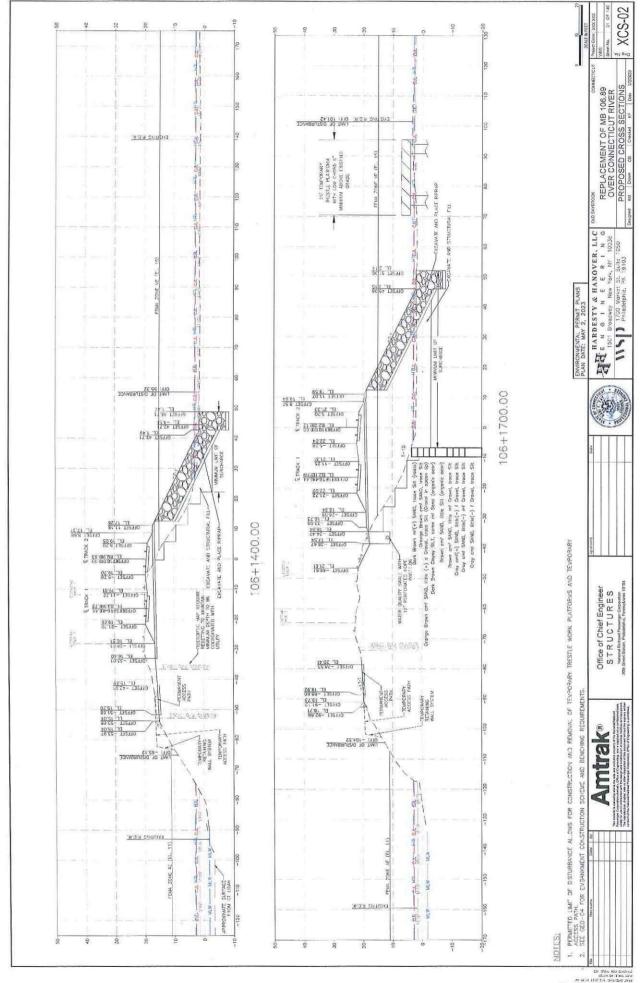


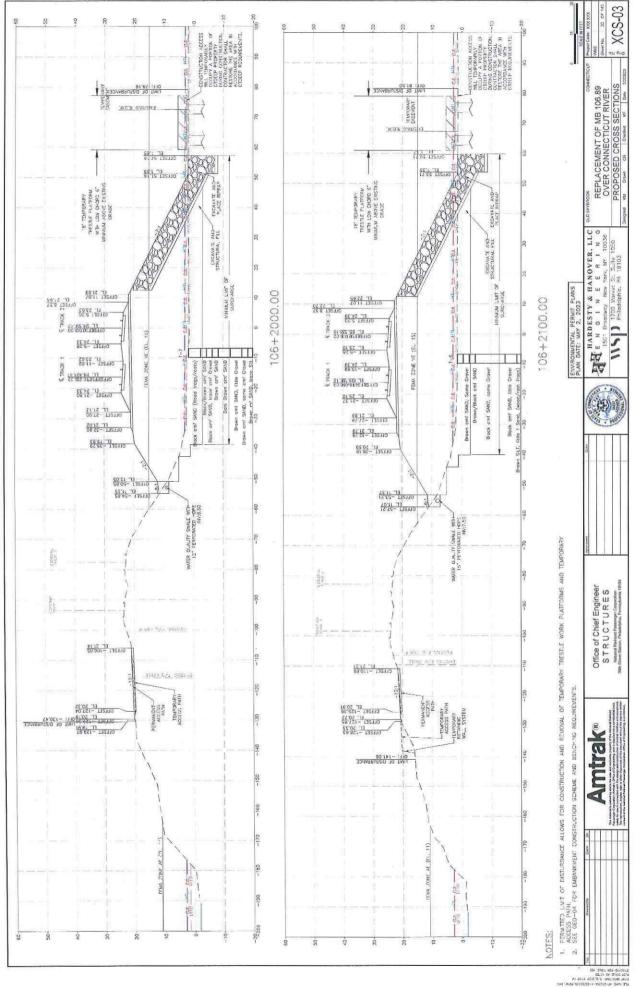
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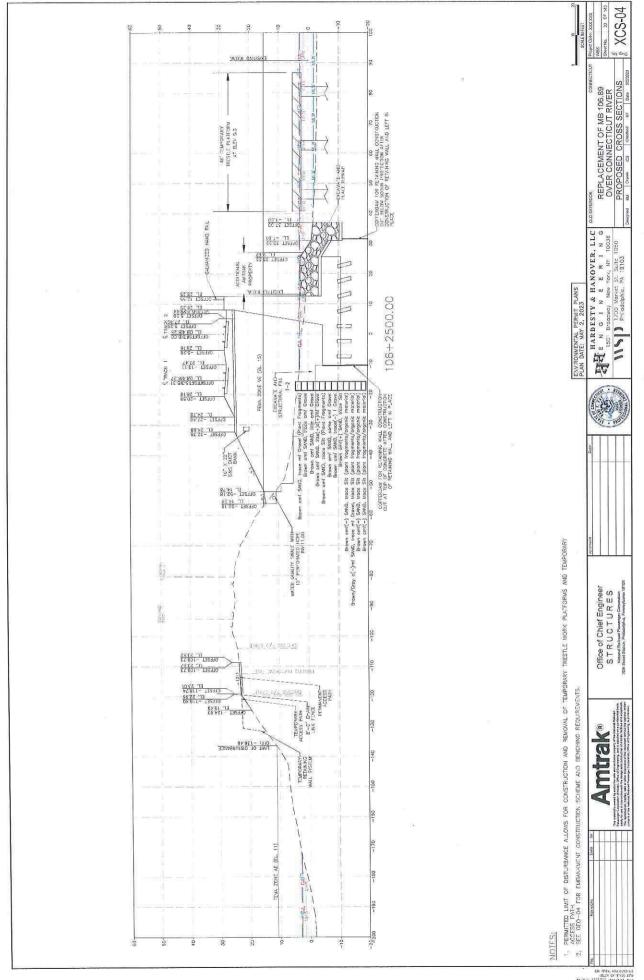


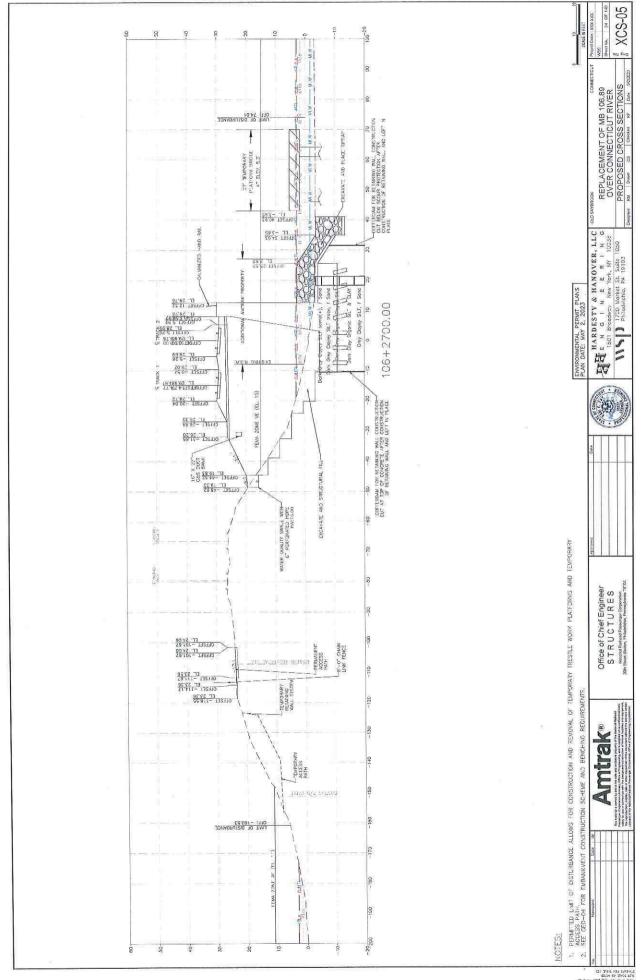




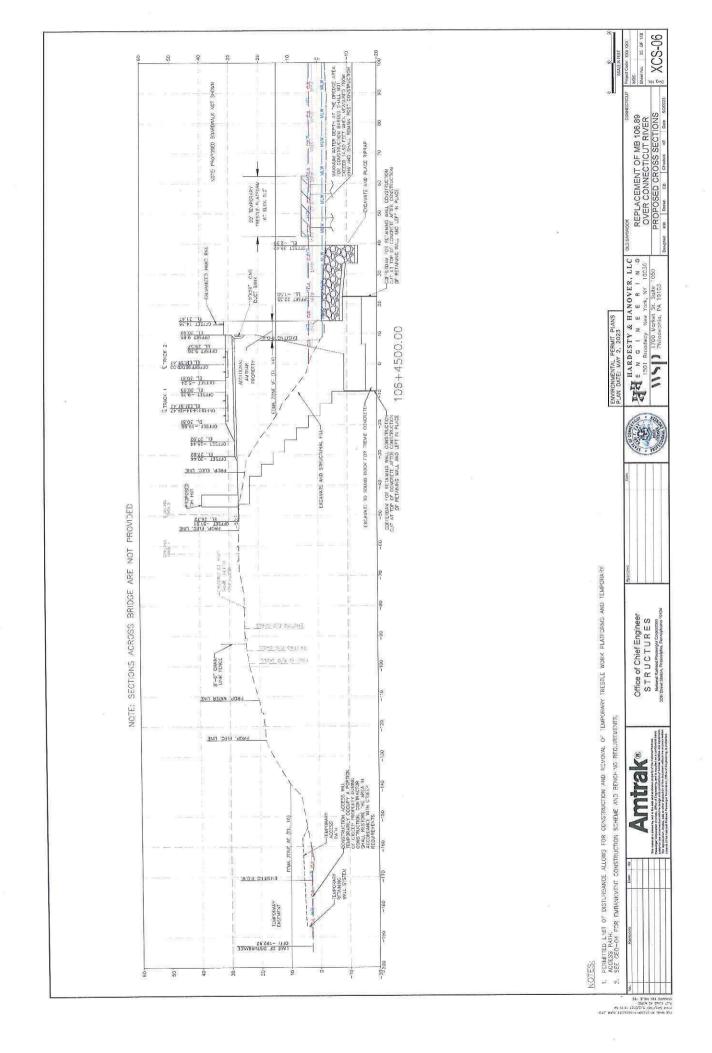


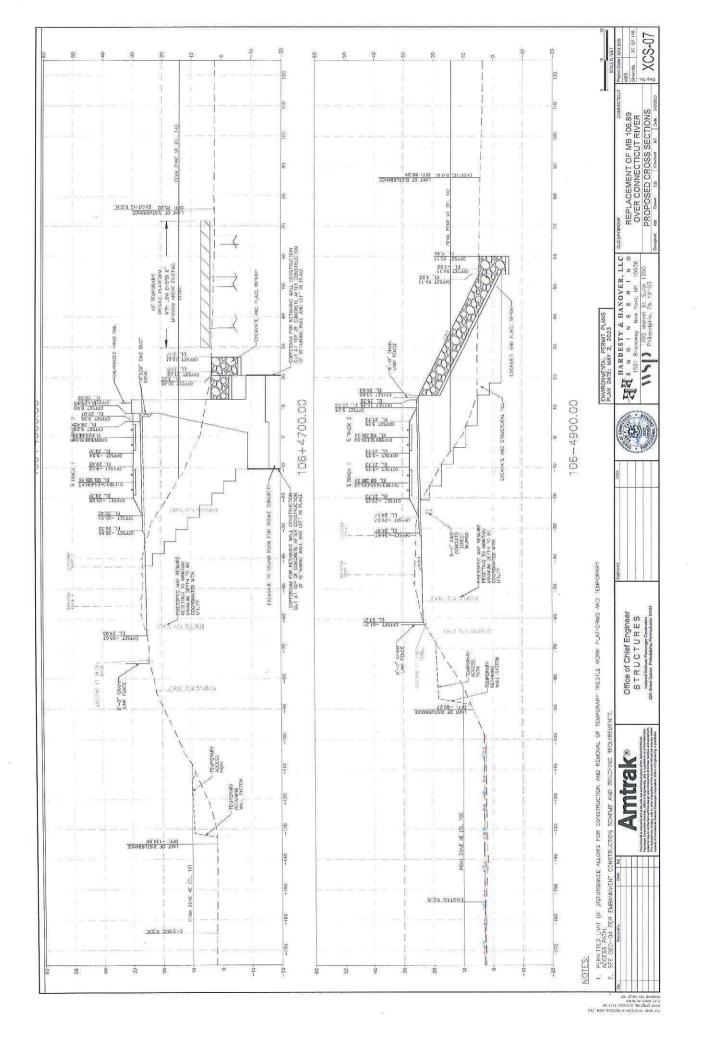


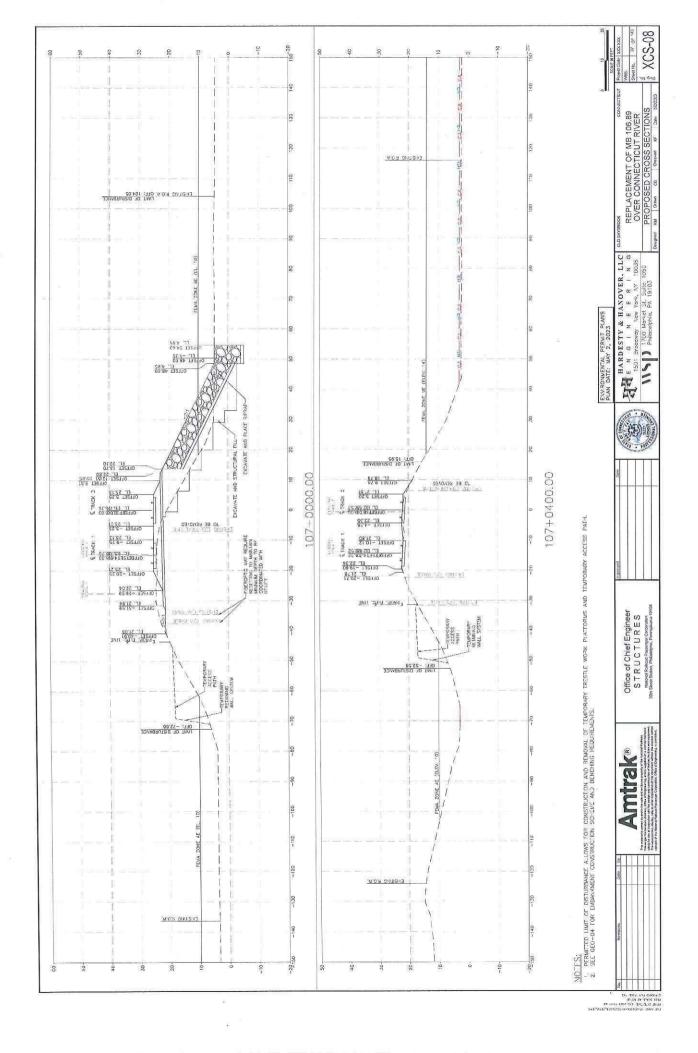


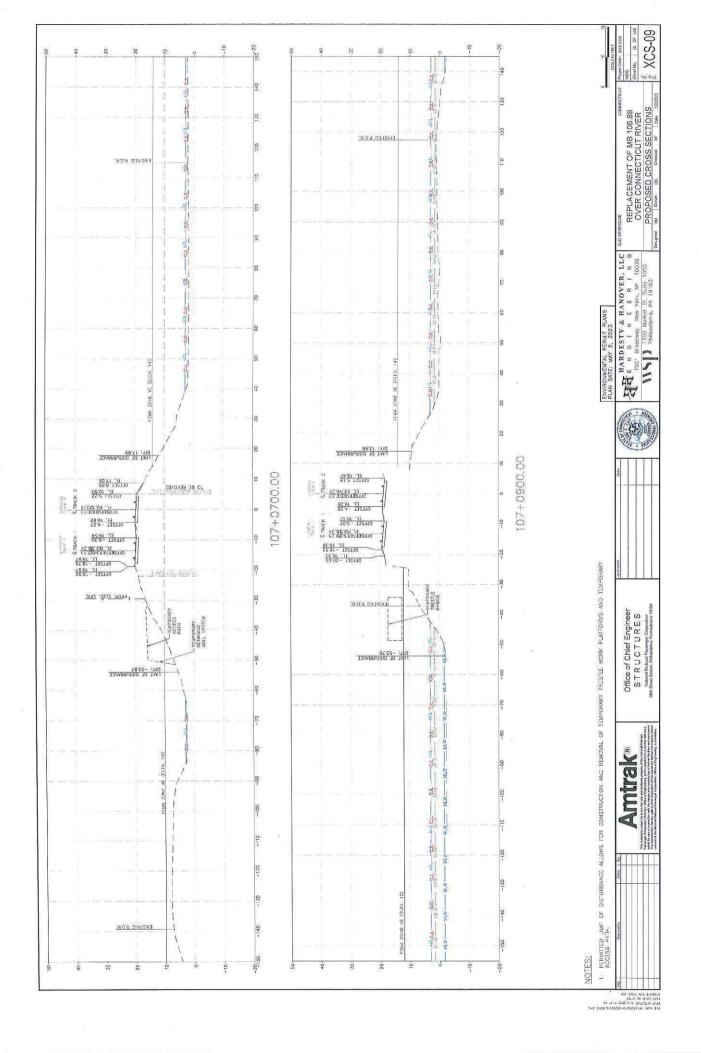


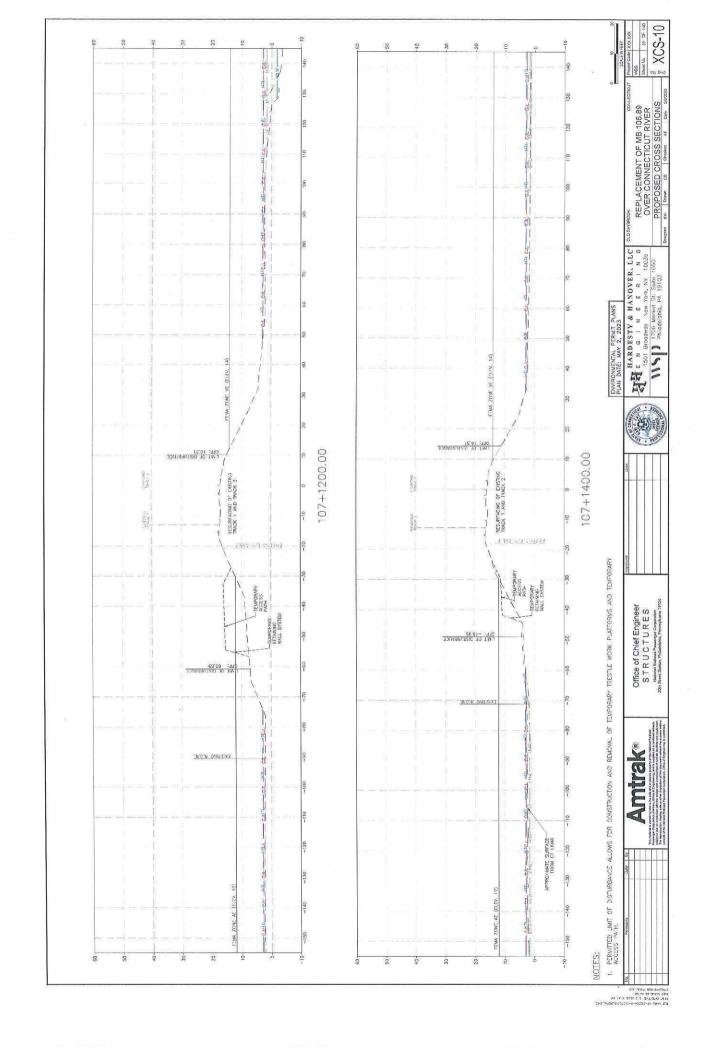
C1( T811 N3s C8734LE 6E-04 SY 370S E71: 6F 01(1) \$207/5/5 (394/14) Best C40 "Aga: \$(05335 x 900)\$2-2- T894 372

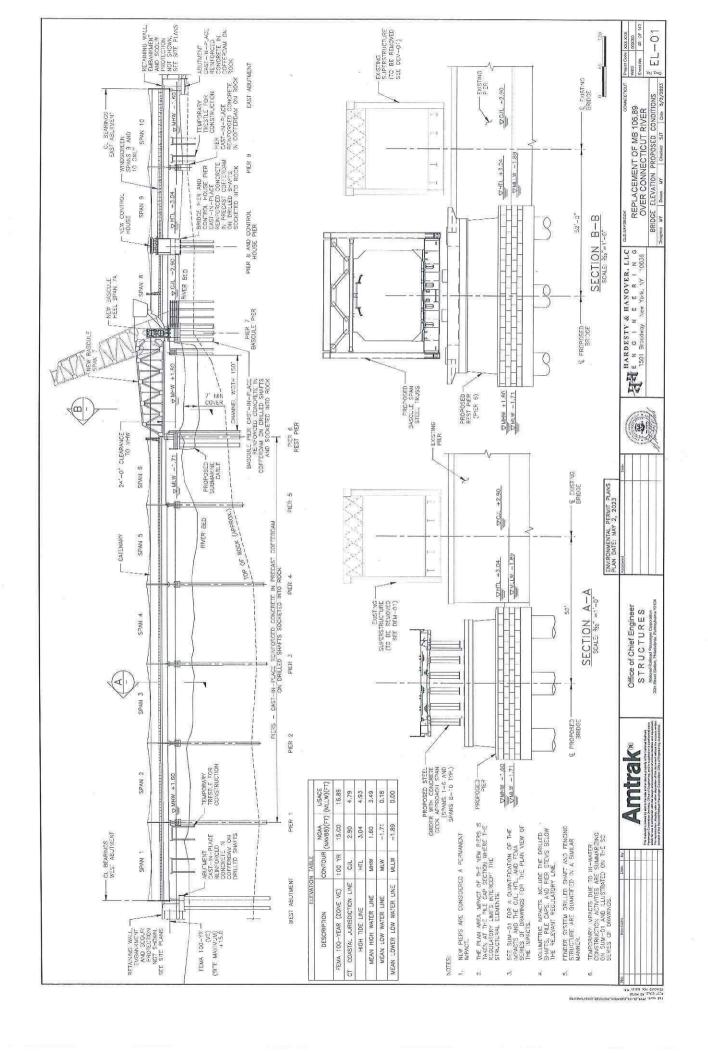












| SIATE (SEE CAL—## SHEETS)  SIATE (SEE CAL—## SHEETS)  SIATE (SEE CAL—## SHEETS)  D  D  D  D  D  D  D  D  D  D  D  D  D |
|--|
|  |

THE TOD-YEAR FLOOD ELEMATON WARES THROUGHOUT THE STE, SEE FLOOD INSURANCE RATE MAY (FRV) PARELS 0900700361J (ET. 2/6/2013), 090100461J (ET. 8/5/2013), AND 2001004652J (FFF, 8/5/2013), AND 2001004652J (FFF, 8/5/2013) FOR ELEMATON VALLES AND LYTS OF APPLICABILTY.

vi

TURBIDTY CHRAMS ARE REQUIRED FOR ALL CONSTRUCTON ACTIVITIES DISTURBING THE RAKER BOTTOM INCLUDING, BUT NOT CUNITED TO, DRILLED SHATT INSTALLATION, SUBVARING CABLE REMOVAL, AND INSTALLATION, EXISTING FEMORAL, AND EXISTING FEMORAL.

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3. MPACTS BELOW THE CUL INCLUDE ASSAS BELOW THE CUL ELEVATION, SHORE TO SHORE, THAT ARE NOT INCLUDED AS VEDETATED TIDAL WETLAND. 4. IMPACIS BELOW THE LAND CAPABLE OF SUPPORTING THAL VEGETATION (LCSTV) INCLUDE AREAS BELOW THE LCSTV ELEVATION, SHORE TO SHORE, THAT ARE NOT INCLUDED AS BELOW CALL OR VEGETATED THAT ARE NOT INCLUDED AS BELOW CALL OR VEGETATED THAT ARE NOT INCLUDED AS BELOW. MPACTS BELOW THE HTT INCLUDE ALL NREAS BELOW THE HT. ELDATON, SHORE TO SHORE THOSE DESIGNATED AS VEGETATED THAN THESE MANCH VALLES OF SECON THE HILL THE SHALL AREAS OF FLAGGED VEGETATED TIDAL WETLANDS LOCATED ABOVE THE HILL WHERE INCLUDED IN

2. INPACTS BELOW THE VEGETATED TIDAL WETLANDS INCLUDE AREAS FLAGORD IN THE FIELD, SHORE TO SHORE

1. VERTICAL DATUM IS NAVO 88, REGULATORY ELEVATIONS BASED ON NOAA GAUSE BENCHMARK.

THREIDT CUCTUMS THAT ARE PEQUARD TO PRILOPE LARGER WORK AREAS WITH VULTPLE BARGES ARE ASSUMED TO BE SUPPORTED WITH 10° NAVIT FOR MITS SAMED AN APPROXIMATION OF MEMBERS ARE NOT SHOWN, TRYDICED PIK PILIS ARE A INFORMATION OF WASHINGTON OF MEMBERS ARE NOT SHOWN, TRYDICED PIK PILIS ARE A INFORMATION OF WASHINGTON OF WASHINGTON

TURBIOTY CUSTAINS ARE REQUIRED FOR ANY ACTIVITIES RECUIRING BARSES TO BE SECURED TO THE RACER EOTTOW WITH SPUID PILES, WARSE A TOTAL ENCLOSURE IS NOT RECUIRED, IT IS ASSUMED THAT TURBICITY CURTAINS WILL BE SUPPORTED OFF OF THE SDCS OF THE WORK SARDES. 10, SEE DRAWING SC-0° THROUGH SC-04 FOR SUGGESTED BARGE LAYOUTS AND TURBOLY CLIRIAN LIMITS FOR W-WATER WORK ACTIVITIES.

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11. THE VAXIABLE TOTAL TEMPORARY IMPACTS DUE TO TURBIDITY CURTAIN PIN PLES AND BARCE SPUD PHES IS APPROXIMATE 9,500 ST AND IS INCLUDED IN THE MALLES AT LETA IN THE SUBJECT SENET AND INCLUDED WITH CALLED SHAPT INSTALLATION, PHER CONSTRUCTON, SPAN INSTALLATION, SUBJAINANCE AND INSTALLATION, EXCENDED WITH EXISTING SPAN RELIGIAL, AND WORK ASSOCIATED WITH EXISTING SPAN RELIGIAL, AND WORK ASSOCIATED WITH EXISTING SPAN RELIGIAL, AND

|             | SUMMARY                   | SUMMARY OF PERMANENT IMPACTS (SF) | PACIS (SF)                  |                                   |
|-------------|---------------------------|-----------------------------------|-----------------------------|-----------------------------------|
|             | STATE                     | STATE (SEE CAL-## SHEETS)         | (ETS)                       | FEDERAL<br>(SEE HTL-##<br>SHEETS) |
| SHEET (-##) | VEGETATED TDAL<br>WETLAND | BELOW CAL                         | BELOW LOSTV<br>(ABOVE C.L.) | BELOW HTL                         |
| -01         | ٥                         | 0                                 | a                           | 0                                 |
| -02         | O                         | 0                                 | 0                           | 0                                 |
| -03         | 0                         | o                                 | 0                           | a                                 |
| +0-         | 11760                     | 3.70                              | 9779                        | 15480                             |
| -05         | 57170                     | 36540                             | 6960                        | 94710                             |
| 90-         | 0                         | 35990                             | 0                           | 35990                             |
| -07         | 150                       | 29830                             | 8900                        | 31980                             |
| -08         | o                         | o                                 | 9                           | o                                 |
| 60-         | 0                         | o                                 | o                           | Ö                                 |
| -10         | 0                         | o                                 | 0                           | С                                 |
| -11         | 0                         | C                                 | o                           | 0                                 |
| -12         | 0                         | O                                 | e:                          | 160                               |
| TOTAL.      | (50090 SF<br>(1,59 AC)    | (2.42 AC)                         | 22300 SF<br>(6.51 AC)       | 178320 SF<br>(4,09 AC)            |

|          | STATE   | FEDERAL |
|----------|---------|---------|
| EMPORARY | 3.89 AC | 4.06 AC |
| ERMANENT | 4.52 AC | 4.09 AC |

ENVIRONMENTAL PERMIT PLANS

Office of Chief Engineer STRUCTURES

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HARDESTY & HANOVER, LLC

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REPLACEMENT OF MB 106.89
OVER CONNECTICUT RIVER
IMPACT SUMMARY SHEET
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| -                             |                           |                            |     |     | -   |      |       | -                      | -     | _    | -   | -   |    |      |                        | 1                |                           | -                          |     |     | -   |       |       | -     | -     | -   | -   | -   | -                                       | -   | _                     |
|-------------------------------|---------------------------|----------------------------|-----|-----|-----|------|-------|------------------------|-------|------|-----|-----|----|------|------------------------|------------------|---------------------------|----------------------------|-----|-----|-----|-------|-------|-------|-------|-----|-----|-----|---|-----|-----------------------|
| ACTS (SF)                     | TS}                       | BELOW LCSTV<br>(ABOVE CUL) | 0   | ю   | n   | 7390 | 420   | o                      | 9840  | 740  | 086 | c   | 0  | 140  | 19510 SF<br>(0.45 AC)  | IMPACTS (SF)     | TS)                       | BELOW LOSTV<br>(AEOVE CUL) | a   | O   | 0   | 6440  | 6960  | 0     | 8900  | c   | o   | o   | Đ                                       | c   | 22300 SF<br>(0.51 AC) |
| SULVIARY OF TEMPORARY IMPACTS | STATE (SEE CUL-## SHEETS) | BELOW CUL                  | 0   | 0   | 0   | 2000 | 33340 | 33910<br>(SEE NOTE 11) | 33460 | 3950 | 30  | O   | 0  | 10   | 103700 SF<br>(2.38 AC) | OF PERMANENT IMP | STATE (SEE CUL-## SHEETS) | BELOW CAL                  | 0   | 0   | 0   | 3:70  | 36540 | 35990 | 29830 | c   | o   | ó   | a                                       | o   | 105530 SF             |
| SULMARY                       | STATE                     | VEGETATED TIDAL<br>WETCAND | 0   | 0   | 0   | 6080 | 17200 | 0                      | 21320 | 1060 | 0   | O   | 0  | 460  | 46120 SF<br>(7.06 AC)  | SUMMASY          | STATE                     | VECETATED T DAL<br>WETLAND | ٥   | a   | 0.  | 11760 | 57170 | 0     | 150   | 0   | 0   | 0   | 0                                       | 0   | 75 C9083              |
|                               |                           | SHEET (-##)                | 10- | -02 | 20- | -04  | -05   | 90-                    | -07   | 80-  | 60- | 01- | 17 | 21.7 | TOTAL                  |                  |                           | SHEET (-##)                | 10- | -02 | -03 | -04   | -05   | 90-   | -07   | -08 | 60- | -10 | ======================================= | -12 | TOTAL                 |

MAN 2.280

MAN 1.71

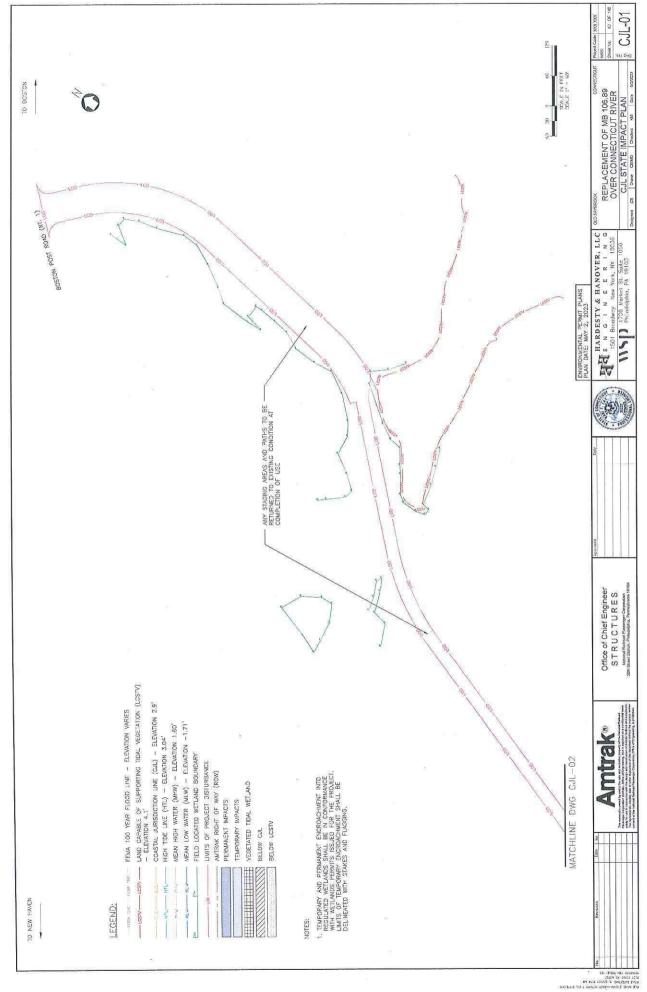
W-M 160

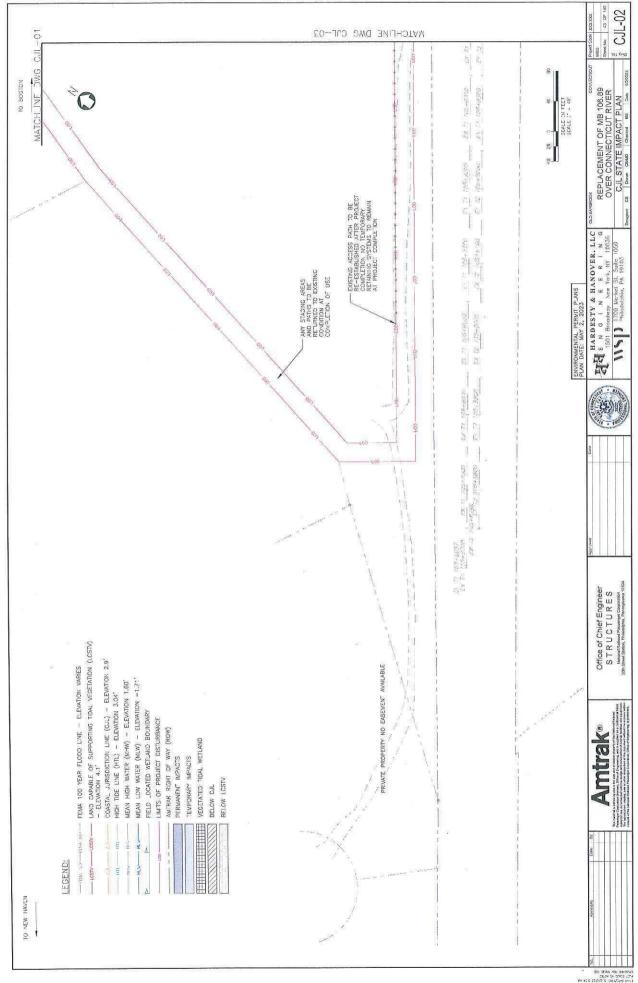
ML ELEWATONS SHOWN ARE APPROXIMATE AND CONTAINS AN ACCUPACY OF 0.10' # BASED

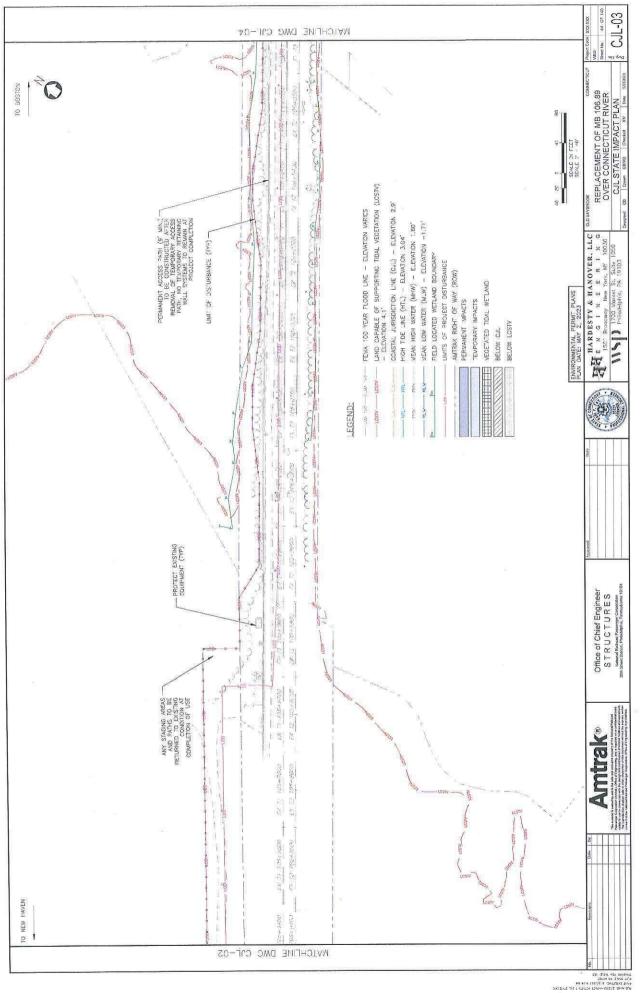
VERTICATION WITH THE USES AND YOAK GAUGE BENCHMARKS INFERPOLATION AND FELD TIDAL DATUM (NAVDER)(#) EVB BAR NEW NEW SUB

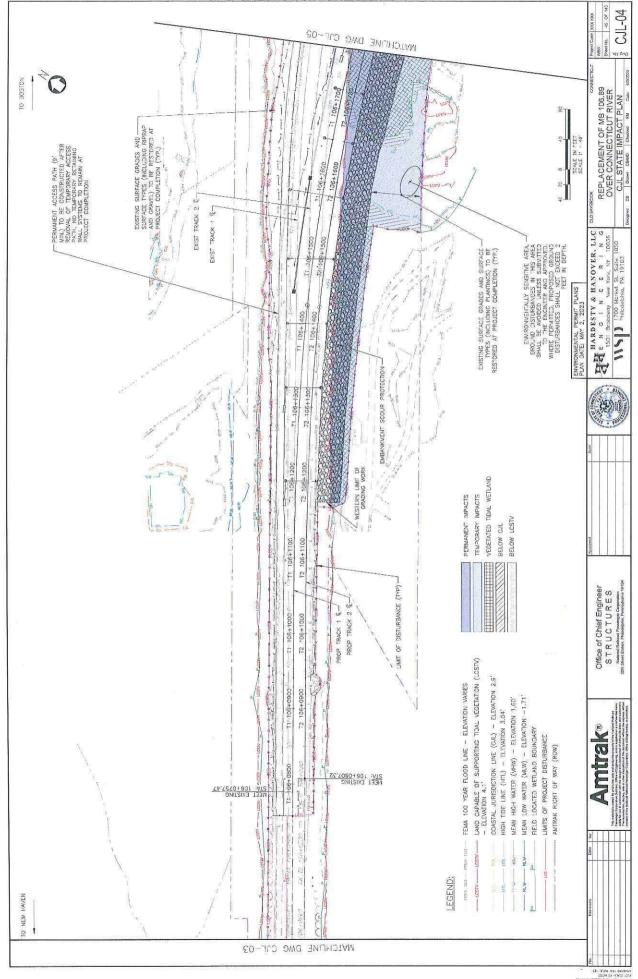
| FEMA FLEDEBFLAIN VOLLIMES                        | CUT/REMOVA:  | IOVA:      | FIL /INSTAL ATION               | 20  | LIN        |   |
|--|--------------|------------|---------------------------------|-----|------------|---|
| BANKMENTS AND RIPRAP =                           | 20500        | 20500 ± CY | 58770 ± CY                      | 117 | 38270 = CY | 0 |
| TAINING WALLS, ABUTHENTS, AND PIPRAP -           | 27620        | 27520 ± CY | 43840 ± CY                      | -   | 6220 =     | 3 |
| RGE ACCESS FOR TEMPORARY IRESTLE WORK PLATFORM = | 6800         | 6800 ± CY  | \(\frac{1}{2}\) \(\frac{1}{2}\) | -   | = 0089-    | 3 |
| W SUBSTRUCTURE AND FENDER ==                     | 10480        | 10480 ± CY | 21900 ± CY                      | -   | 11420 ± CY | 0 |
| MOVAL OF EXISTING SUBSTRUCTURE                   | 9820         | 9820 ± CY  | Y2 ± 0.                         |     | -9820 ± CY | 0 |
| W FISHING PIER BOARDWALK =                       | 560          | 560 = CY   | Y2 ± 0181                       |     | 1050 ± CY  | 0 |
| MOVAL OF FISHING PIER BOARDWALK =                | 710          | 710 = CY   | \0 ± 0\                         |     | -710 ±     | 5 |
| BVÁRINE CABLES =                                 | 3300         | 3300 = CY  | 3300 ± CY                       |     | + 0        | 5 |
| 27   | TOTA.: 7679G | 7979C = CY | 129420 ± CY                     | 7   | 19630 ± CY | 0 |

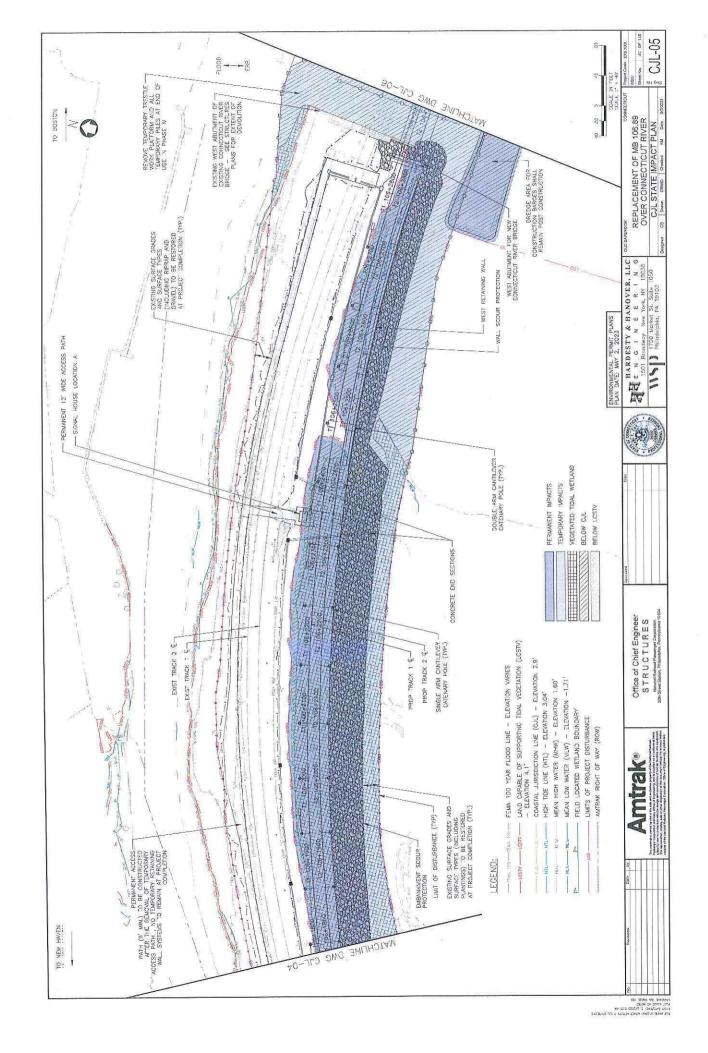
| VOLUMES BELOW HTL                                   | CUT/REMOVAL | F.L./NSTALLATION | NET        |
|---|-------------|------------------|------------|
| EMBANKMENTS AND ROPAP ==                            | 14460 ± CY  | 17250 ± CY       | 2790 = CY  |
| RETAINING WALLS, ABUTMENTS, AND RIPRAP =            | 13240 ± CY  | 15690 ± CY       | 3450 ± CY  |
| BARGE ACCESS FOR TEMPORARY TRESTLE WORK PLATFORM == | £800 ± CY   | λ;<br>π<br>ο     | -6800 ± CY |
| NEW SUBSTRUCTURE AND FENDER =                       | 10480 ± CY  | 200°C ± CV       | 9530 = CY  |
| REMOVAL OF EXISTING SUBSTRUCTURE ==                 | 7010 ± CY   | ဉ်<br>+ ၀        | -7010 = CY |
| NEW FISHING PIER BOARDWALK =                        | 560 ± CY    | ¥2 ∓ 065         | 30 = CY    |
| REMOVAL OF FISHING PIER BOARDWALK =                 | 25 ± CY     | ×O ∓ O           | -25 ± CY   |
| SUBMARINE CABLES =                                  | 3300 ± 57   | 3300 ± 07        | C = CY     |
| TOTAL   | 55875 ± CY  | 57840 ± CY       | 1985 = CY  |

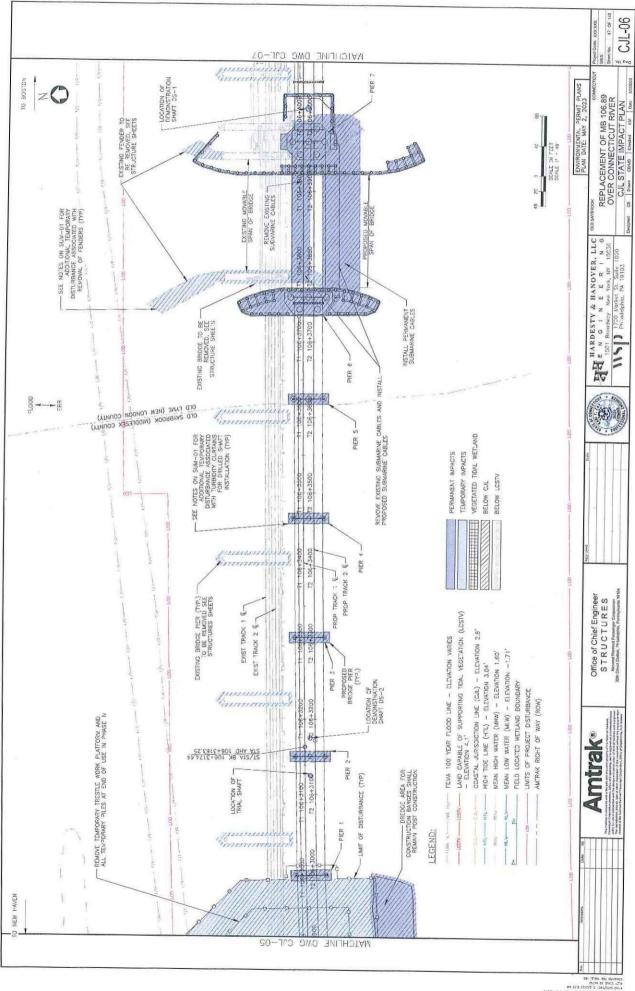


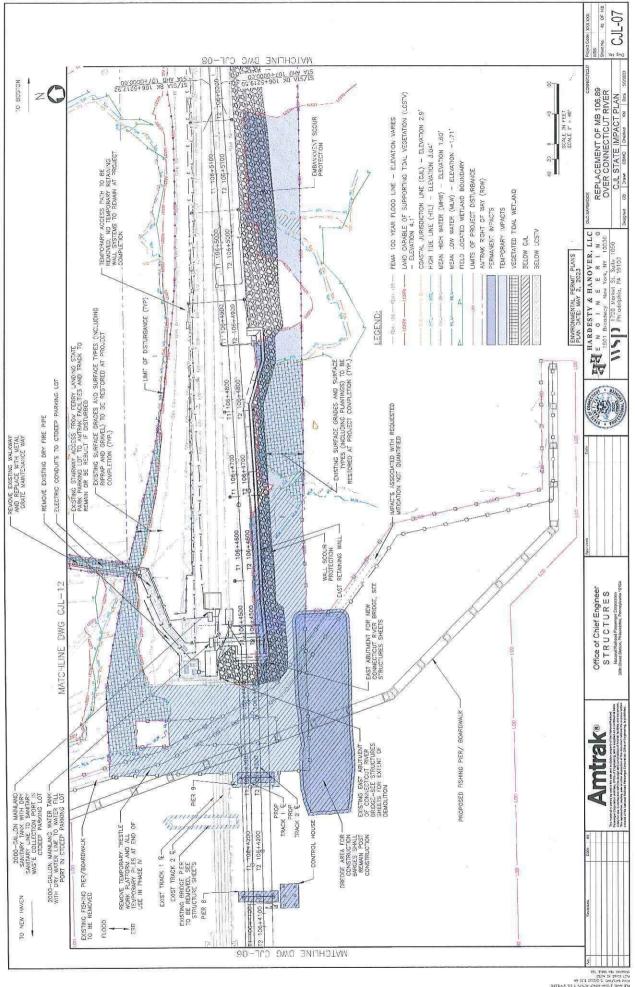


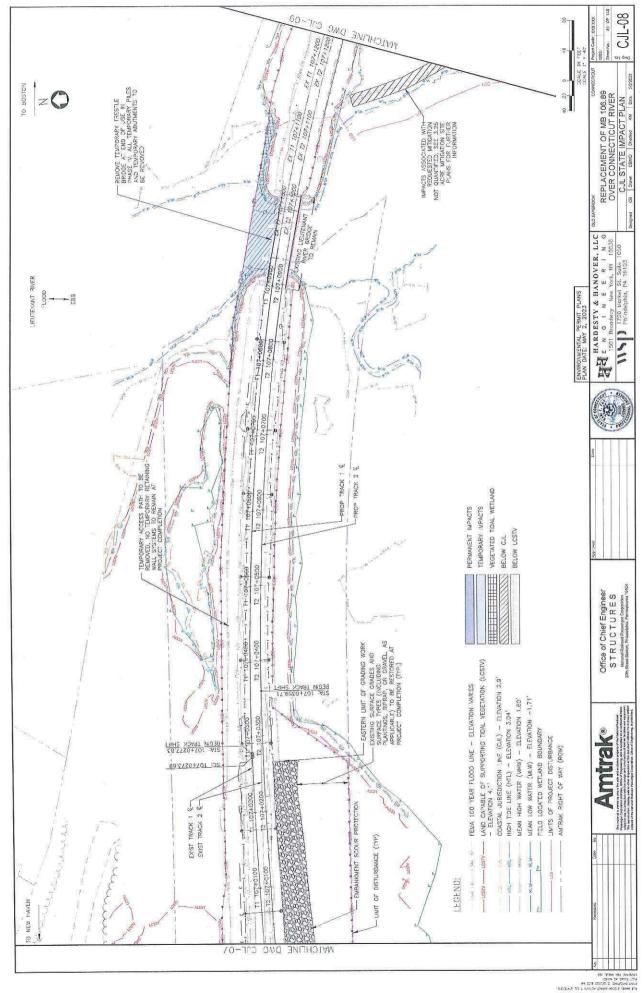


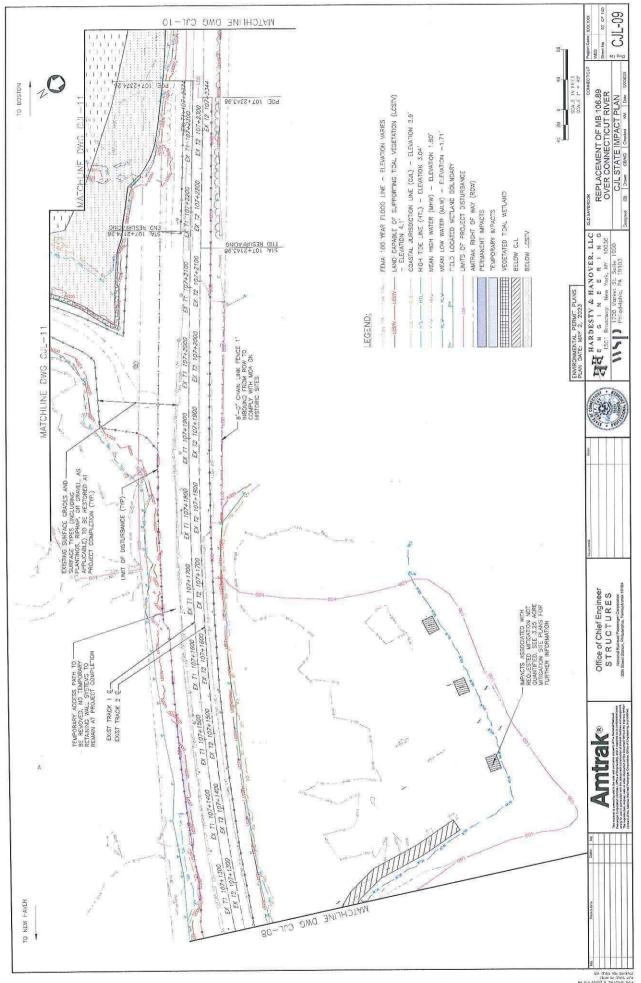


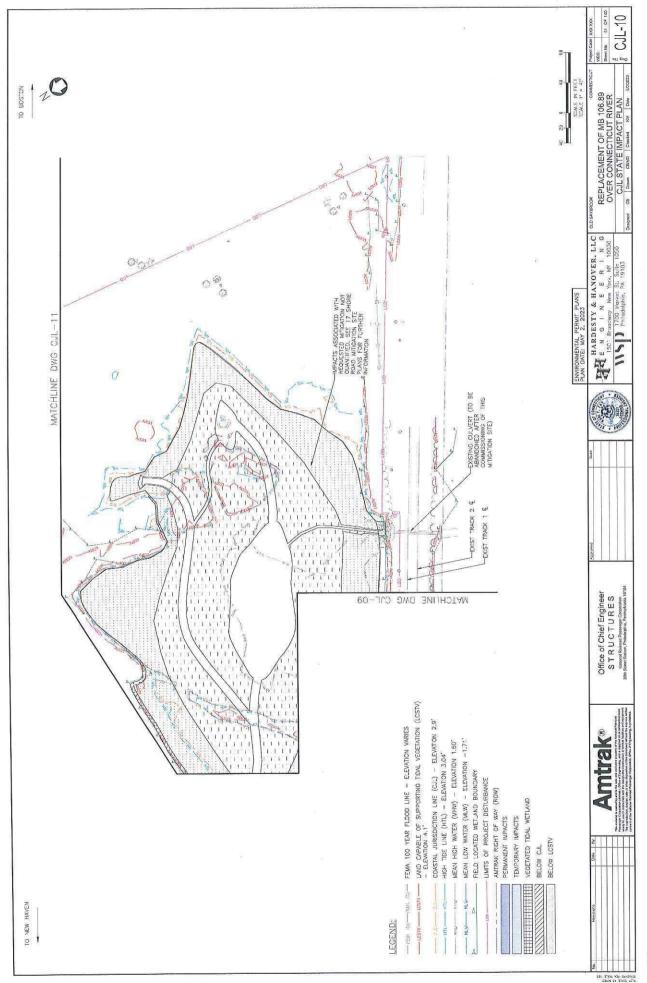


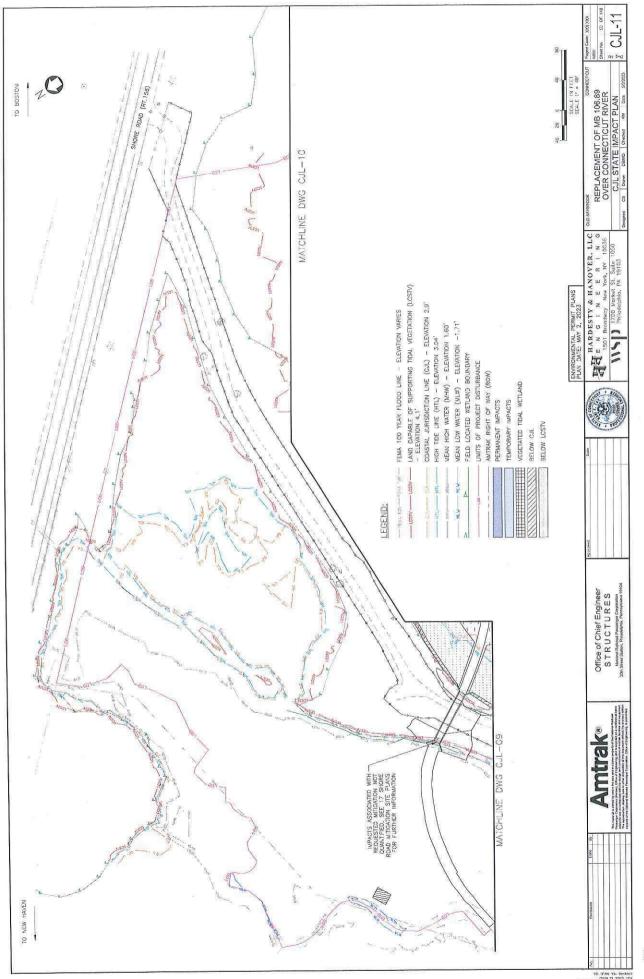


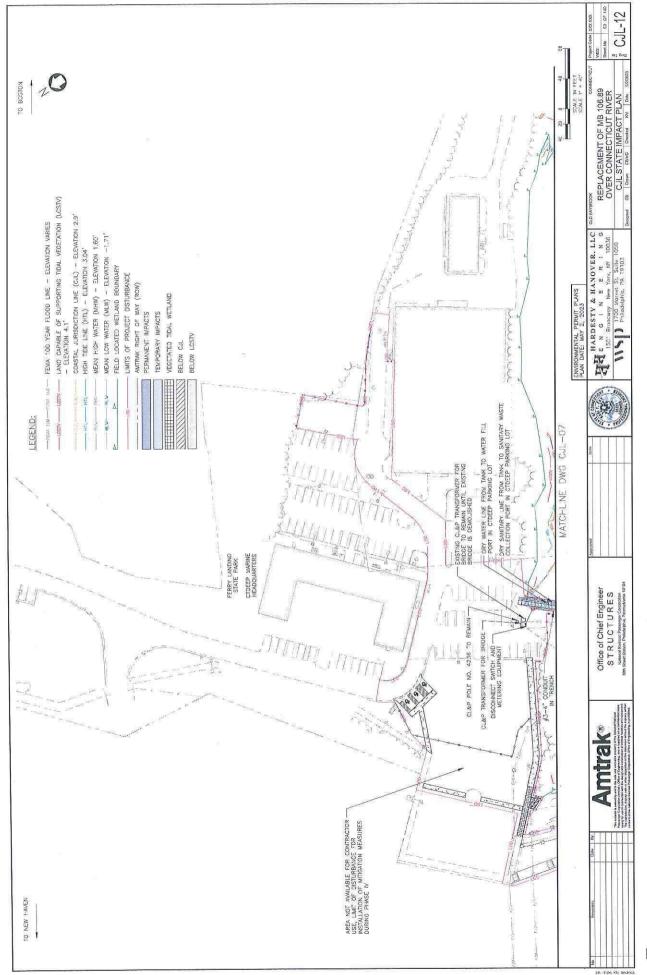


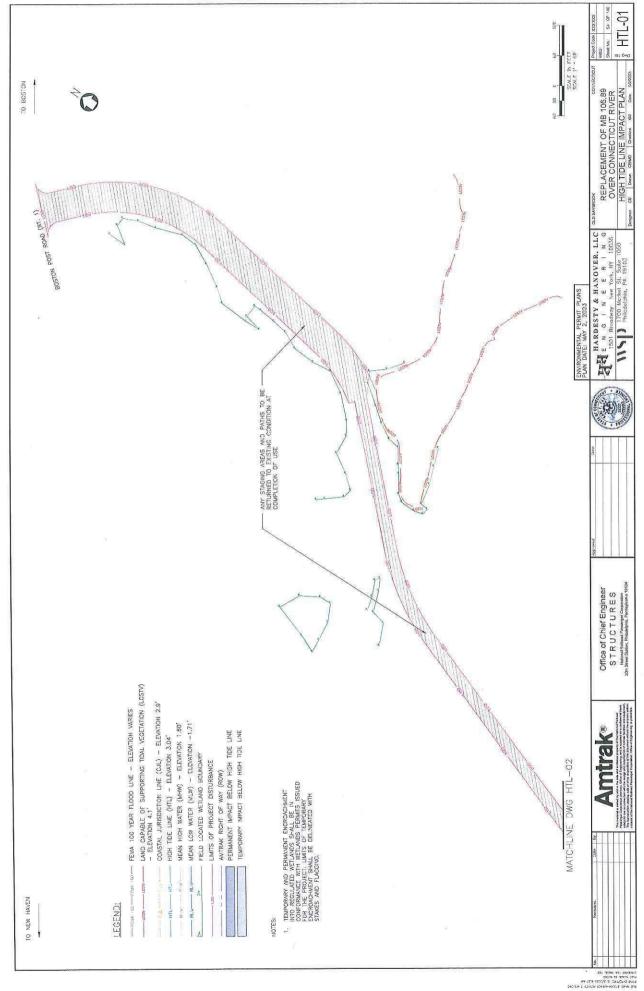


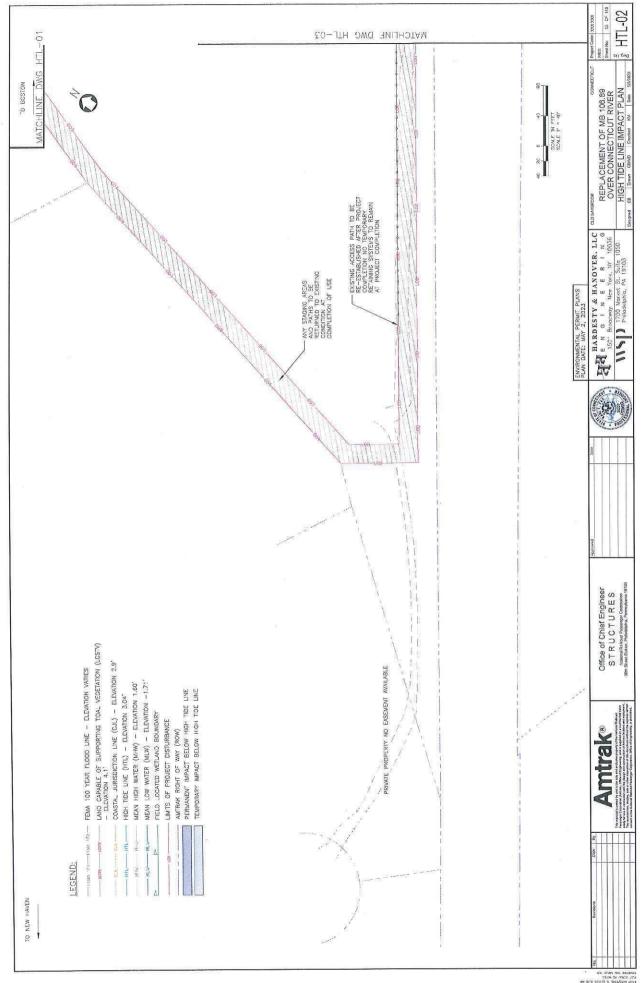




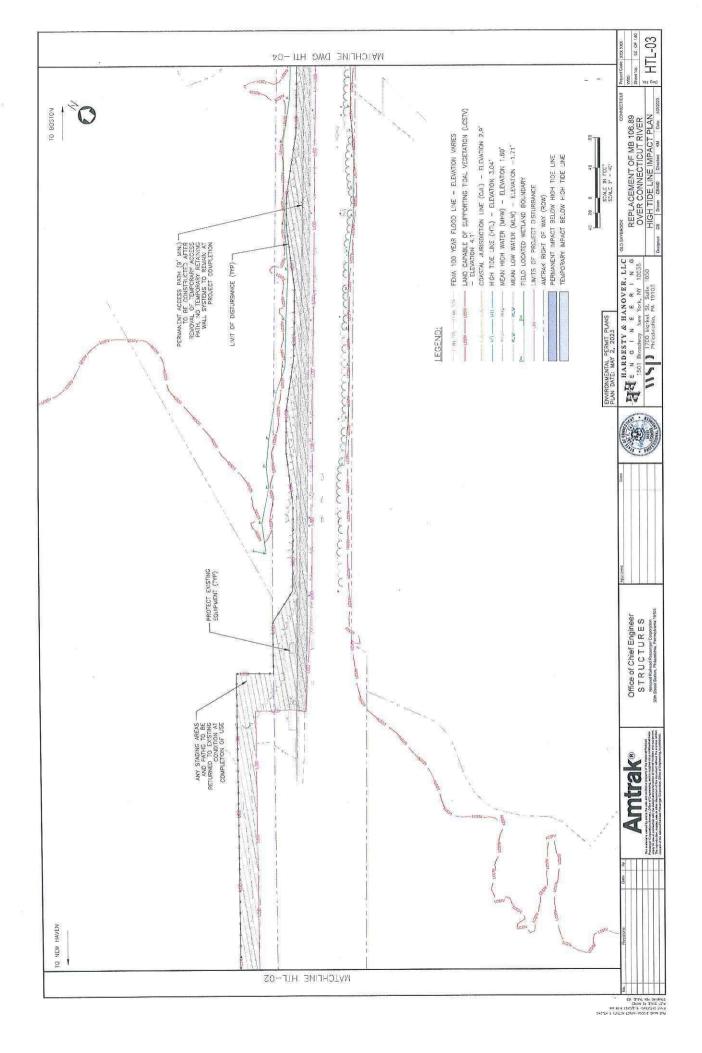


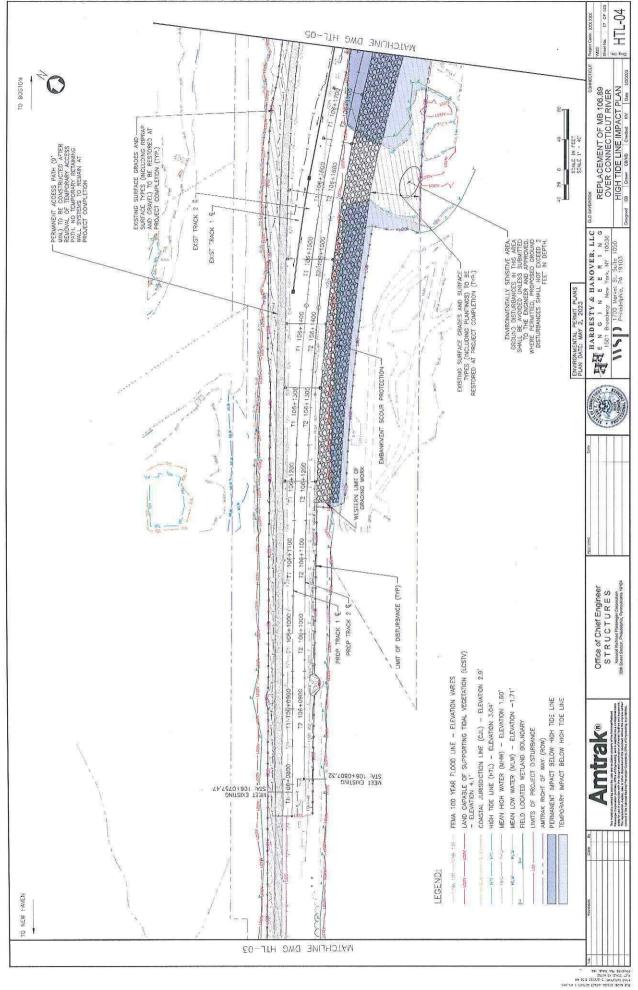


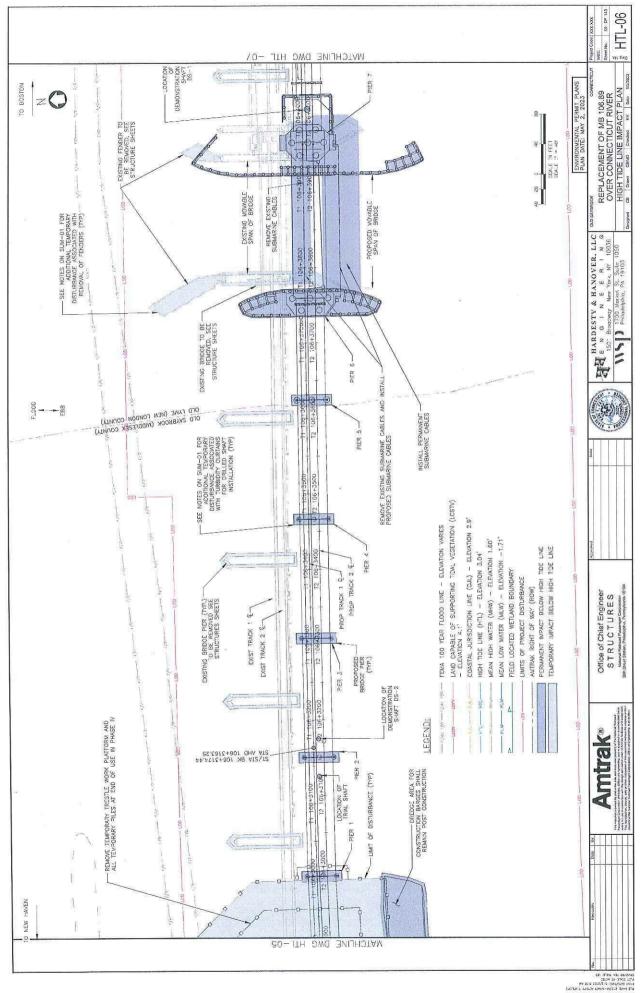


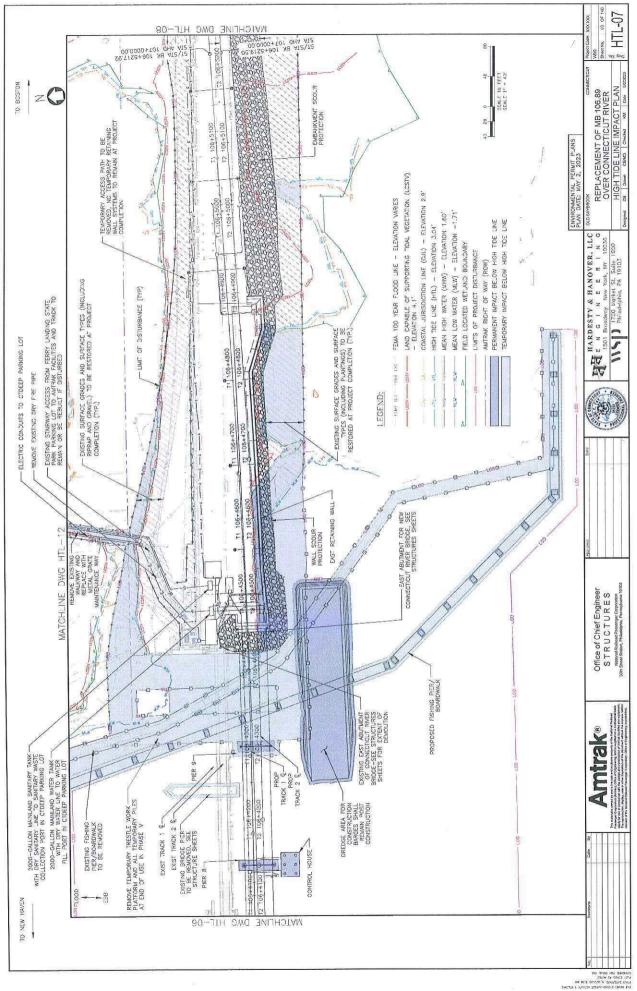


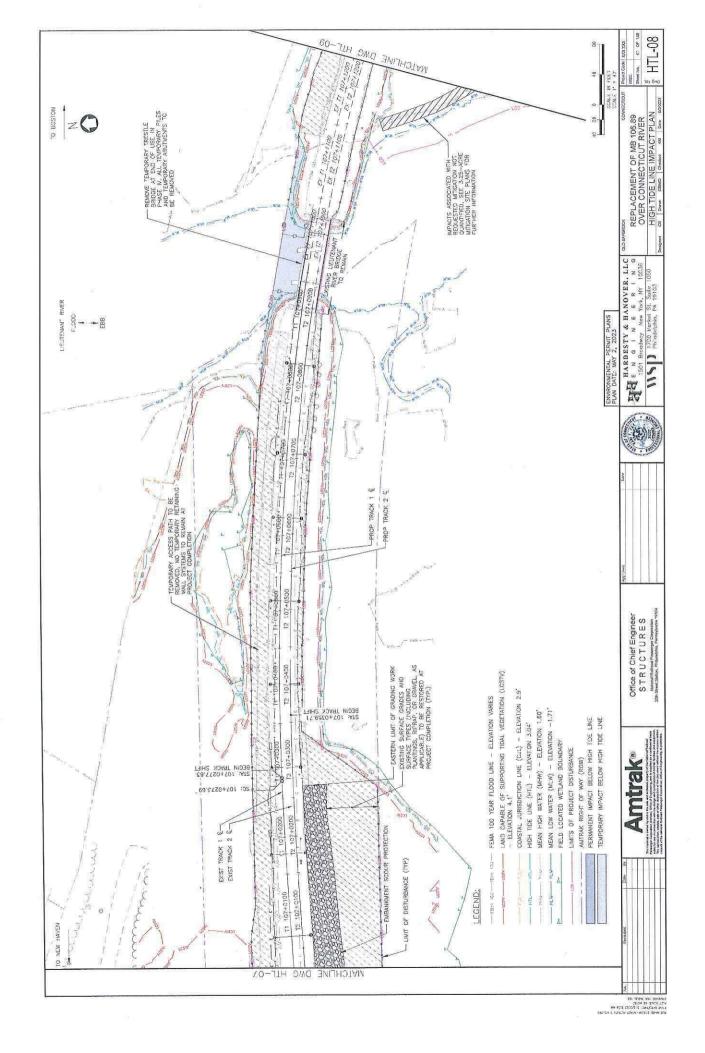
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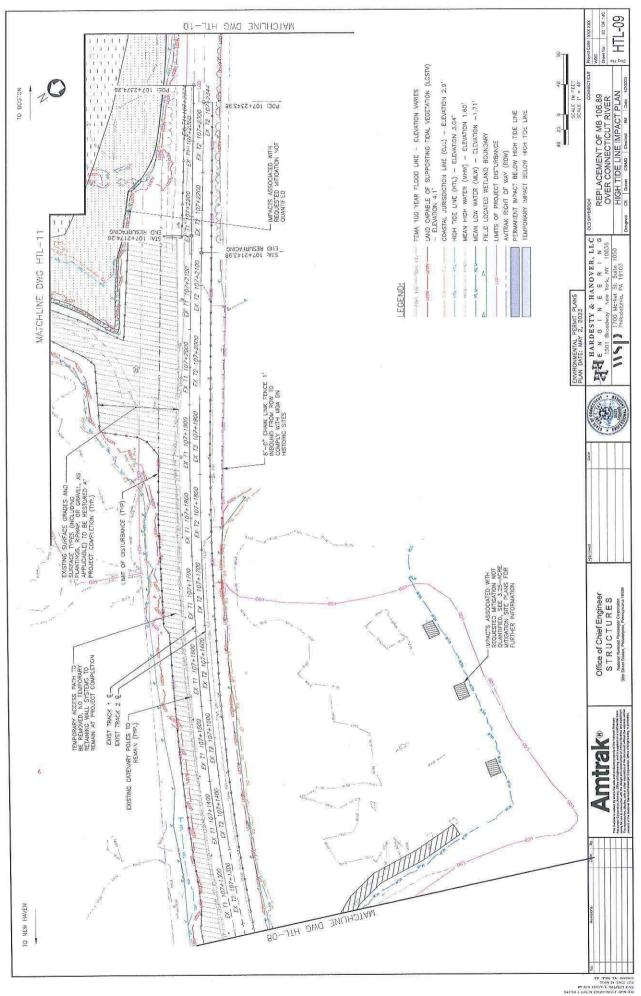


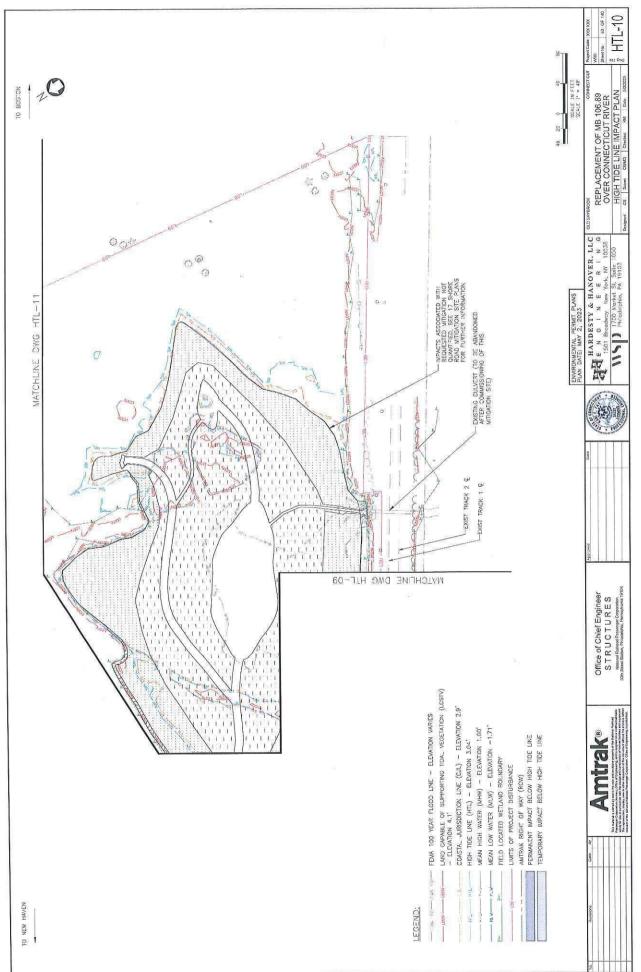


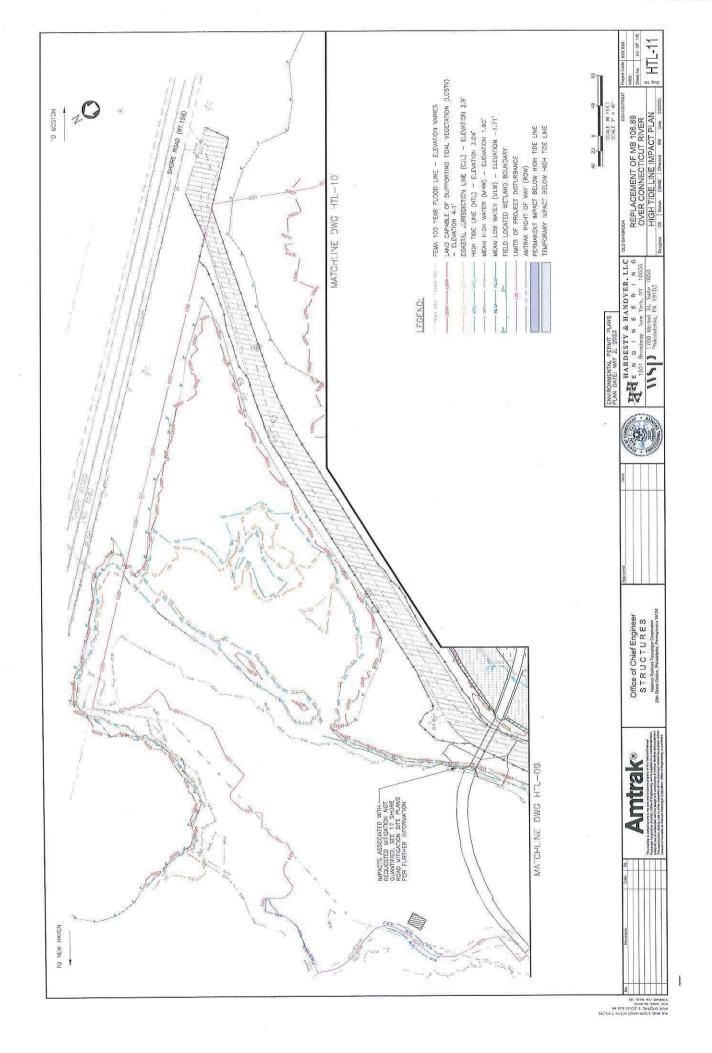


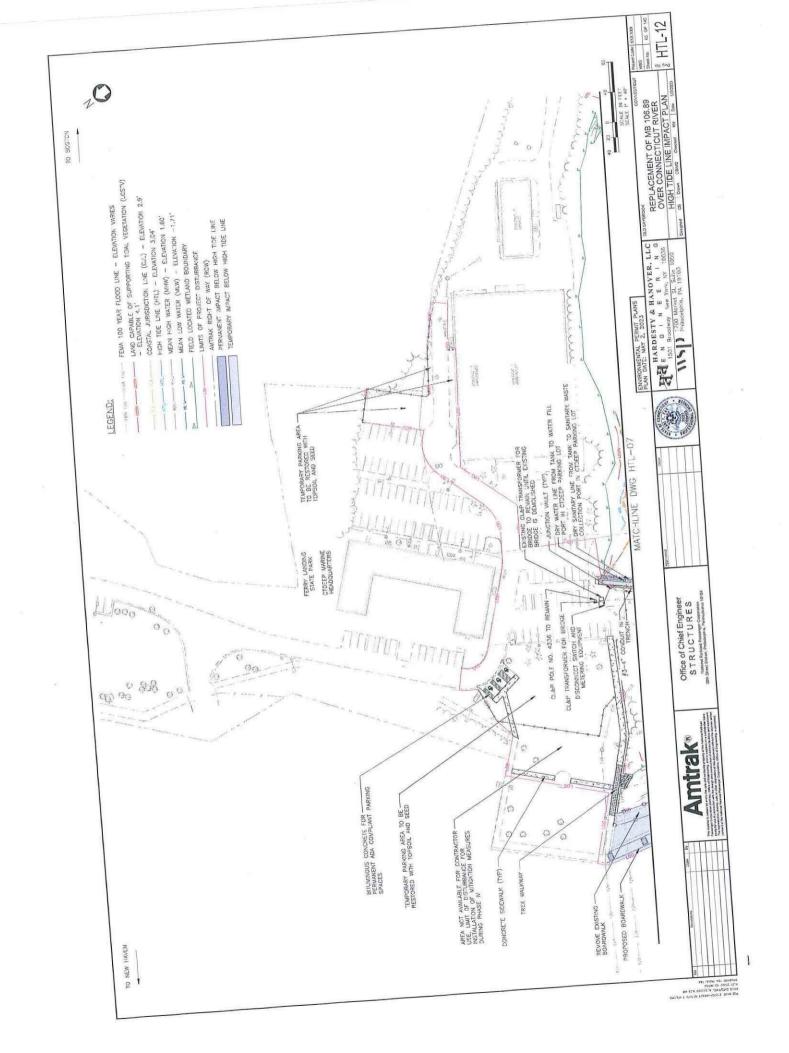


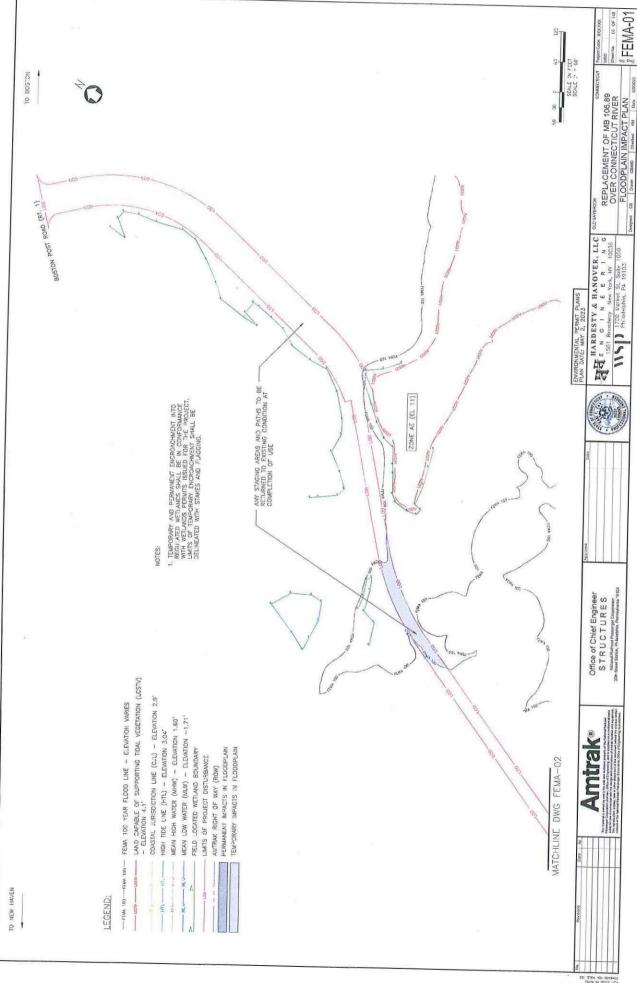




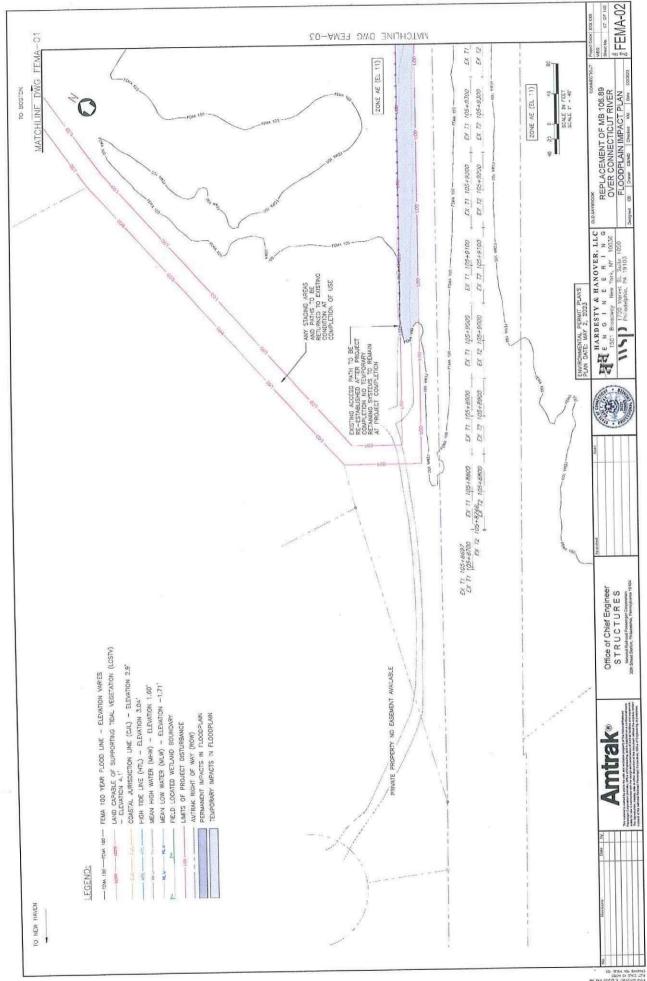


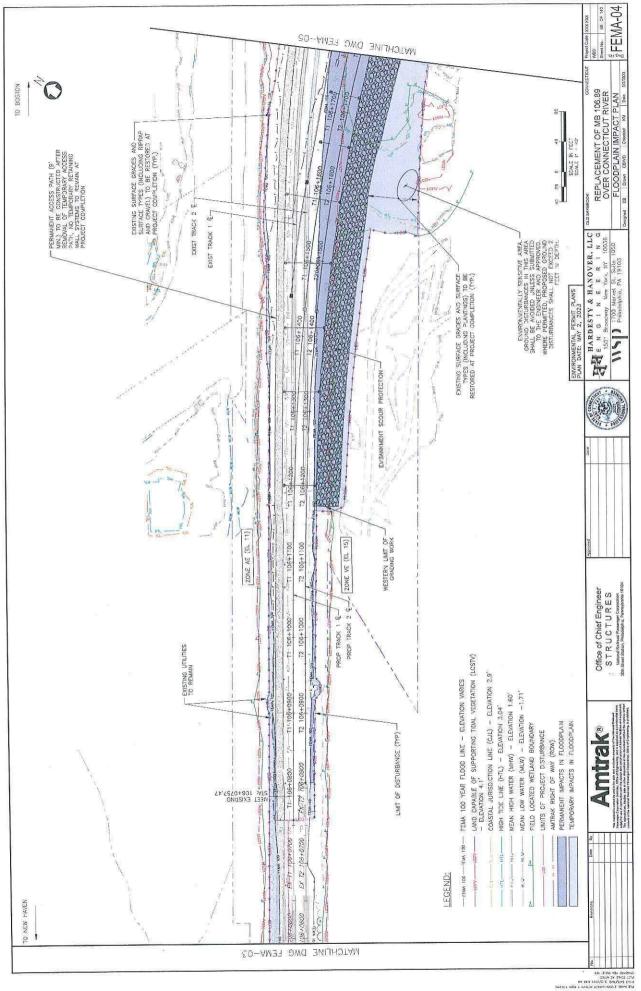


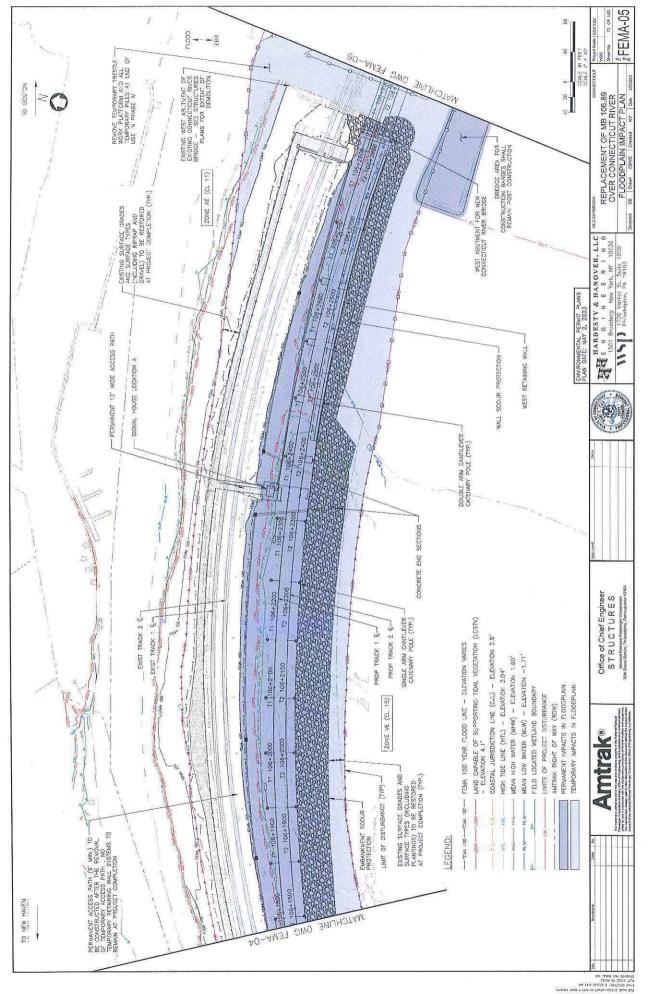


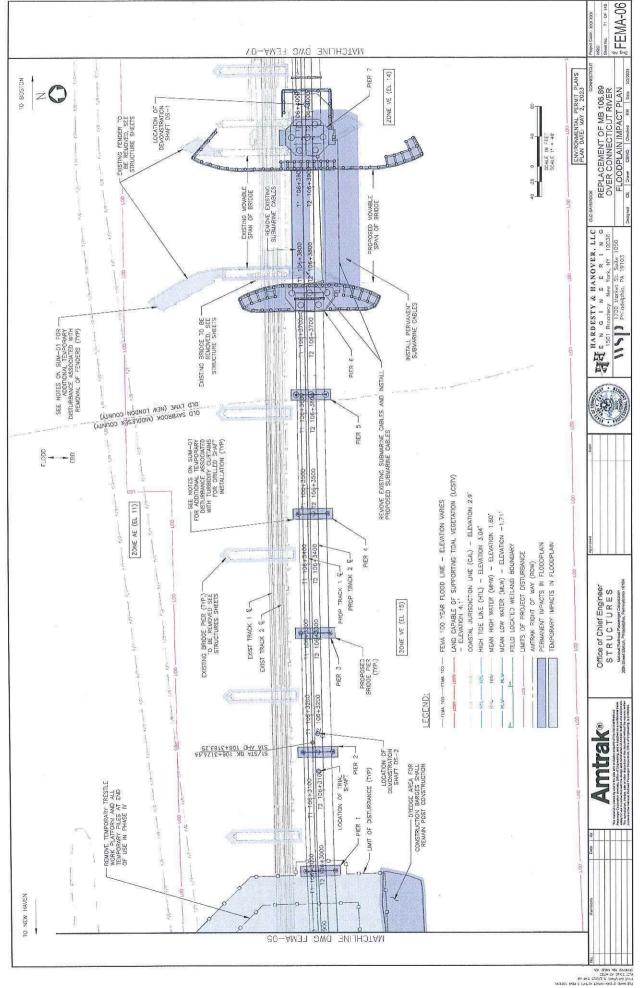


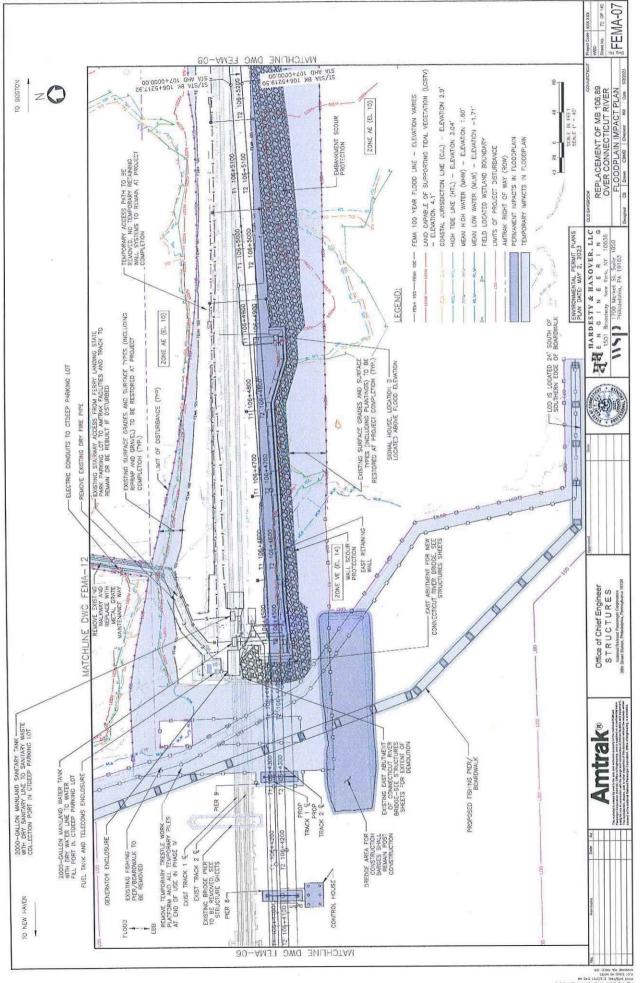
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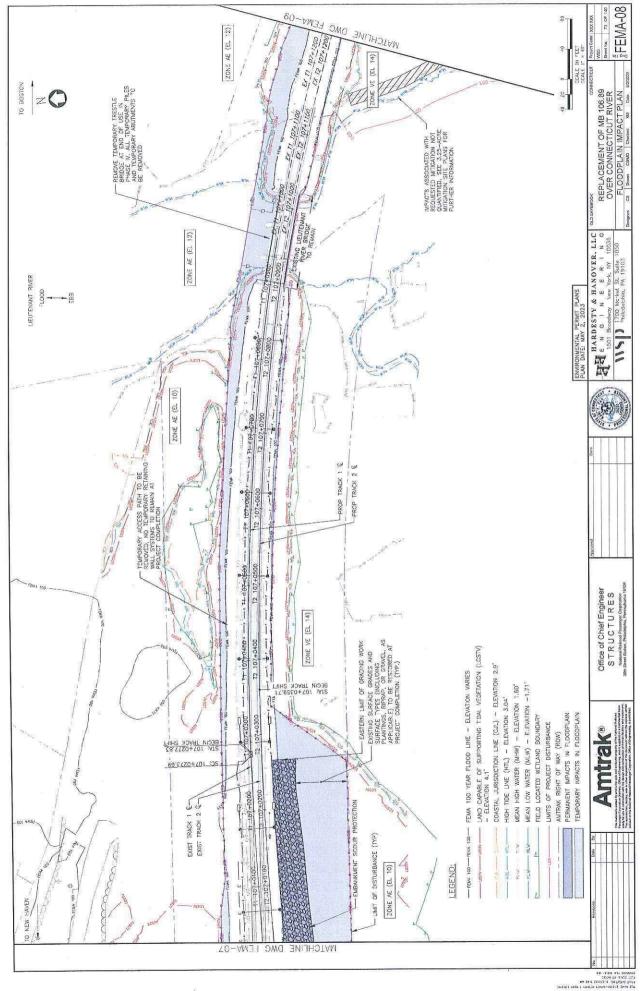


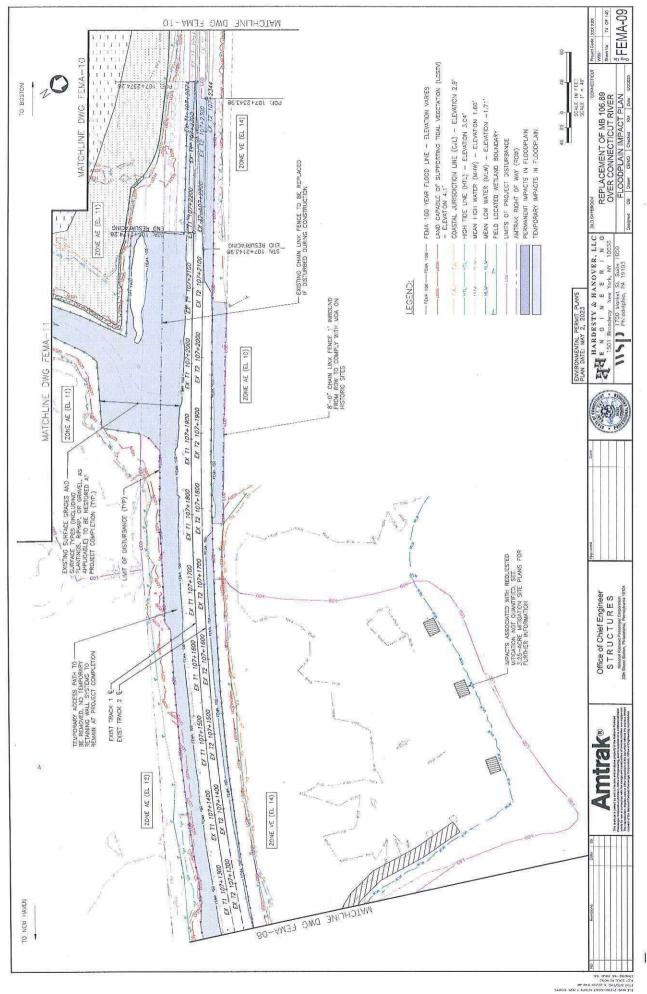


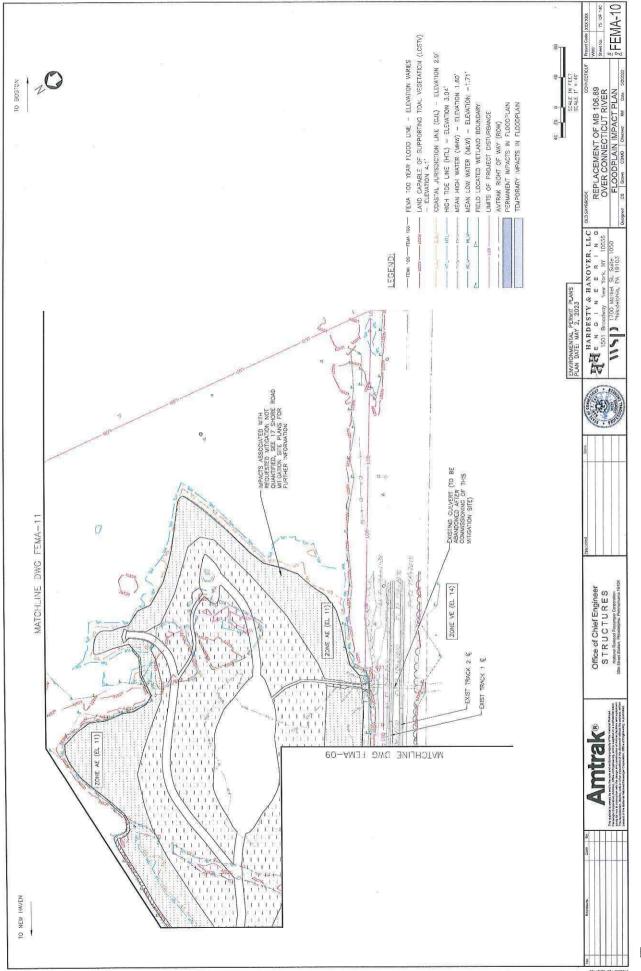


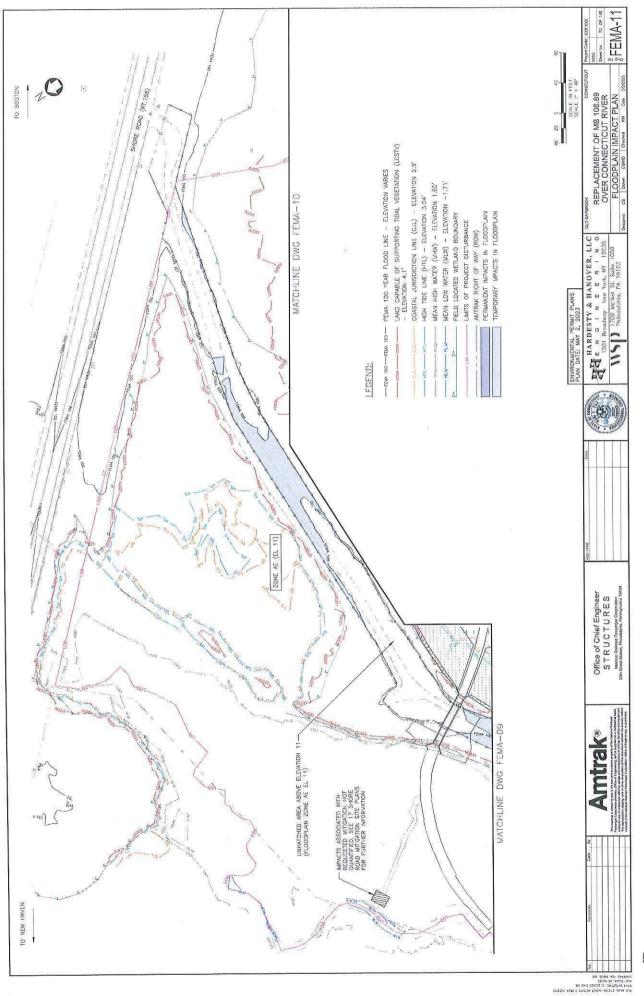


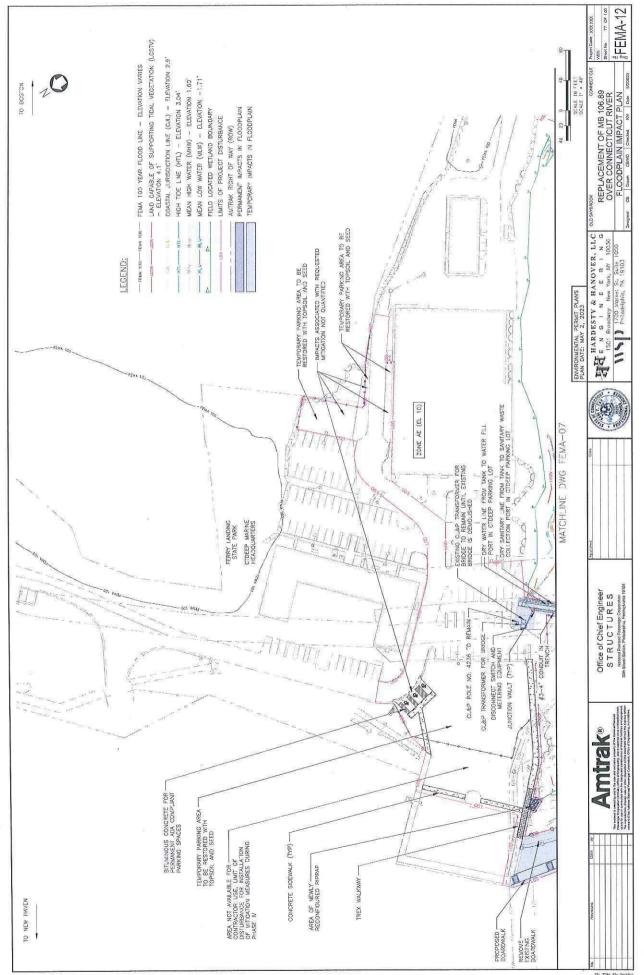












| SUGGESTED CONSTRUCTION SEQUENCE THIS SUGGESTED CONSTRUCTION SEQUENCE PROVIDES A SUMMARY CUTLINE FOR A POTDATIAL SEQUENCE OF CONSTRUCTION ACTIVITIES. THE CONTINUED AS PRESIDENCE OF SCHOOLING AND COGGINATION AND EMBURNAL REQUIRED TEMPORARY EMPROVMENTAL SHEGUIRED SHEGUIRED TEMPORARY EMPROVMENTAL SHEGUIRED AND MANTANED WITH ALL PERVITS.   | CONSTRUCT TRUNMON TOWERS AND FEAR PORTION OF BASCULE SPAN WITH CONSTRUCT TRUNMON TOWERS AND FEAR PORTION OF BASCULE SPAN WITH SHORMED SHORME. TO SUPPORT REAR SECTION AND ALLOW FOR INSTILLATION OF COUNTERMEIGHT MATERIAL.  G10. BEGIN BROSE MACHINERY AND ELECTRICAL SYSTEMS INSTILLATIONS. |  | PHASE IV SUMMARY<br>DURING PHASE IV I<br>BELOUSHED, HE NE<br>REMOVEO, FERRY PAI<br>BRIDGE INSTILLED, OF<br>FINISHED, A KANDAII<br>MONABLE SPAN. | PHASE IV STUMMARY  DURING PHASE IV WITH REAL STEVICE ENTRED ON THE NEW SRIDGE, THE EXISTING BRIDGE WILL BE  DELYGISHED, THE WIP FRIZER SYSTEM COMPLETED, TEMPORARY FACILITIES DECOMMISSIONED MAD  BRIDGE REPRESENCE CONTROL DONARDAR RESTORED: THAT LEECTOM, STEVICE OF THE NEW  BRIDGE INSTALLED, COUNTROL LOSEE UTILITIES OF EXISTING SPACE METALLED, AND SITE MORE  MANABLE, DA NAVIGATION OUTAGE WILL BE REQUIRED FOR FLOAT—OUT OF THE EXISTING BRIDGE  MANABLE SPACE.   |   |
|--|---|--|---|--|---|
| PHASE I CONSISTS OF CONSISTENCING THE NEW BRIDGE, ELECTRIFICATION AND CASS FACILITIES, PART OF THE FENDER PRINCIPLY INC. TRACE AND THE PATIENTY INC. TRACE AND THE PATIENT   | 510   |  | PH IVA: FLOA  | PH IVA: FLOAT-6.JT EXISTING VOVABLE SPAN (NAVIGATION SHORT DUBATION SUSPENSION)  |   |
| SYSTEM AND SUBSTAINING FORTINGS OF THE ROYSING STRUCTURE AND APPROACHES TOR THE DURSTON OF THIS PHASE,<br>SEWICE MILL CONTINUE UNIMPEDED ON THE EXISTING STRUCTURE AND APPROACHES FOR ANY OSFETY KIND STRUCTURE. UNIMPEDED ON THE EXISTING STRUCTURE OF ANY OSFETY KIND STRUCTURE OF ANY MANONS OF STRUCTURE TO ANY OSFETY KIND STRUCTURE OF ANY OSFETY KIND STRUCTURE BUT STRUCTURE OF ANY OSFETY KIND STRUCTURE BUT STRUCTURE OF ANY OSFETY KIND STRUCTURE FOR THE MOST LIVINGS OF MANONS OF ANY OSFETY KIND STRUCTURE FOR THE MOST LIVINGS OF ANY OSFETY KIND STRUCTURE FOR THE MOST LIVINGS OF ANY OSFETY KIND STRUCTURE AND ANY OSFETY KIND STRUCTURE ANY | , IC12, INSTALL PERMANENT SUBMANNE AND WOUNTED CARLESS E IC13. REOPEN CHANNEL TO NAVIGATION.  | -  | IVA1.   | AAISE EXISTING BASQULE SPAN TO FULLY OPEN POSITION AND INSTALL TEMPORARY SUPPORTS.   |   |
| NIGABY CONTROLLO VESTIONS. TEAPOORY TEAL TO A CONTROL SYSTEMS. TEAPOORY TEAL TO A CONTROL SYSTEMS, TEAPOORY TEAL TO A CONTROL SYSTEMS, TEAPOORY TEACHING AND A CONTROL SYSTEMS. THE EXISTING FERRY PARK LANDING SOASDWALK WILL BE CLOSED FOR   | 10.14.  |  | NA2.  | DEMOLISH EXISTING COUNTERWEIGHT.   |   |
| CONSTRUCTION. THE NAMIGATION CHANNEL WILL BE SLIGHTY MARGOWED BYBING THE PASSE DOWNRY-DITAN TO ACCOMMONATE COMPILATED FOR SHEWARK CARE WING AND PROPOSED FLOATING NAVIOATION OUT/AGS WILL BE REQUIRED FOR SLIGHMANK CARE WORK AND PROPOSED FLOATING NOW HER SPAIN.   | IC15. CONSTRUCT TRACKWORK, DVERHEAD APPROACH SPANS.   | CATENARY SYSTEMS ON APPROACHES AND BRIDGE                            | 3M3.  | CLOSE CHANNEL TO MANGATION.  |   |
| PH W. BEGIN CONSTRUCTION   | PH ID: 9ASC   |  |   | COMER EXISTING PASCULE STAN TO CLOSED TOSTION.   |   |
| IA1. MOBILIZE, CLEAR SITE, AND BEGIN SETTING UP TEMPORARY ENVIRONMENTAL AND SECURITY<br>SAFEGUARDS. APPLICABLE TEMPORARY ENVIRONALMENT SAFEGUARDS TO SE IMPLIANCENTED PRIOR TO<br>CALL MODEL AND SAFEGUARD TO PROMISE AND PROPERTY AND TO PERMAN IN PLOCE UNIT.  |   |  |   | OPEN CHANNEL TO MAYICATION.  |   |
| CAUTY STILL GOOD STATE OF THE S   | D3. CONNECT BASCL   | DRWARD AND REAR SPLICING   | PH WB: DEW  | PH MR. DEMOLISH EXISTING BRIDGE AND FACULIES   |   |
| A2. BECON, PANNING, FABRICATON AND PROCEEDINGNING FEMBRINS, SINCOLOGAL SHELL, SIRROL, SHOOL MACHINEY, BRIDGE ELECTRICAL, ELECTRICATION COMPONENTS, AND ALL OTHER CONSTRUCTION ELECTRICAL.  | INCLUDES TRUSS CUSSET PLATE CO<br>LÓWER LATERAL BRACING CONNECTIO   |  | WB1.  | DEMOLISH EXISTING BRIDGE APPROACH SPANS.<br>DEMONSH FYKSTING REITGE SCHESTELICTHERS AND FOLKDATONS DESIGNATED FOR  |   |
|  | ID4. RAISE BASCULE. SPAN AND SECURE IN OPEN POSITION. ID5. REOPEN CHANNEL TO NAVIGATION.  | -  |   | REMOVAL.   |   |
|  | EH IE. COMPLETE MAJOR CONSTRUCTION WITH EXISTING BROSE  | STILL IN FULL SERVICE.   |   | CORP. LLIE LINDUN STSILL, CONSTROY OF VOTERNING TRACK IN SYSTEMS FACILITIES NO LONGER IN   |   |
| A.E., DERFORMER MITCHION MESSERS WHEN SHALL NEEDED ENTITY BE LARGES. HEL. CONSTRUCTION OF ENUMER OF SHALL BETTER OF THE CONSTRUCTION OF ENUMER OF PRINCIPLE STEATURE OF SHALL BETTER OF THE SHALL BETTER OF TH   | E2. COMPLETE PHASE IG NOTWIES AS NEEDED.  E2. COMPLETE BASGULE SPAN TRUSS ASSEMBLY, INCLICING TIES, ASSEMBLYS, AND ELECIFICAL APPURIEMANCES AND PERFORM   | NG TIES, TRACKS, MITER PAIL<br>PERFORM PINAL BALANCING OF            |   | SENDEL.<br>SERVICE FOR THE NEW BRIDGE.   |   |
| PH IB: PREPARE TEMPORARY FACILITIES MEEDED DURING CONSTRUCTION   | 13  | SPAN FOR FULL OPERABILITY, FINAL REMOVAL AND WITH ALL PERVANENT      | MB6.<br>NB7.  | PERFORM FINAL TESTING OF THE NEW VOYABLE SPAN<br>CONSTRUCT NEW FERRY PARK LANDING BOARDWALK AND OPEN TO PUBLIC:  | _ |
| 18"; CONTINUE PHASE IA ACTUTIES. 182. CLOSE FERRY PARK LANDING SOMBOWALK TO PUBLIC USE, PERFORM BARGE ACCESS DREDOING  | ELEMENTS IN PLACE.  FINALIZE TRACK, PAIL ELECTRIFICATION FOR TRACK 2 AND CASS FACILITIES ON THE NEW   | AND CASS FACILITIES ON THE NEW                                       | N38.  | REMOVE TEMPORARY CONSTRUCTON FACILITIES AND TEMPORARY ACCESS, AND RESIDENCE STIEL IN PROJECT.  MANAGEMENT IN PROJECT.  |   |
| ACTIVITIES, AND CONSTRUCT LEMPOWART WORK FIGHTORMS.  INSTALL TEVERSARY FACILITIES FOR THE EXISTING BRIDGE AND RAIL NECESSARY TO ACCOMMODATE.   | HIS II JOHN   | TE INS).   |   |  |   |
| CANGERGOTON OF THE NEMBERGE MAD PAUL ON THE SOUTH SIDE OF THE STANICH BRIDGE.  THIS INCLUDES BUT IS NOT INTELL TO TEMPORARY MANASEL BRIDGE POWER AND CONTROL.  SYSTEMS: TEMPORARY BRIDGE ELECTRIFICATION AND CASE CARLE RESOUTING. TEMPORARY DESIGN.  SYSTEMS: TEMPORARY BRIDGE ELECTRIFICATION AND CASE CARLE RESOUTING THEORY OF AN ALL DAMPS.   | PHASE<br>ENDS 0   | SIGNAL TIE-NS AT THE EAST AND WEST<br>AT THE END OF THE WORK OF THIS |   |  |   |
| ON TATHORNA DELINEAR FIELS OF MAY, LICENOMINA DESCRIPTION OF TAMBORNAY CASE EQUIPMENT LOCATED ON THE EXISTING BRIDGE, MLL TEMPORARY CABLE, TROUGH, DUCT BAYNES, MAULTS, AND PULL BOXES ON THE EXISTING BRIDGE, MOWING AND/OR PROTECTING  | PHASE.  | CALINOE ON IRRACA  |   |  |   |
| SOUTHSIDE HIGH VOLTAGE LINE THAT IS MOUNTED ON THE SOUTH FASON OF THE EXISTING BRIDGE APPROACH SPANS; AND TEMPOSARY OPERATOR'S SEANTY MAD ACCESS PATERDAMS TO EXPORT OF THE PROACH SPANS.  | i   |  |   |  |   |
| SAFETY AND SECURITY EQUIPALENT THE OPERATOR'S SHANTY AND 191, BROUGL, STROUGLORE, COMMISSIONING TEMPORARY OPERATING FACILITIES AND ABANDONING SOUTH-SIDE SUBMARINE CABLES.   | 11-2. CONSTRUCT NEW TRACK 2 TRACK, ELECTRIFICATION AND AND WEST ENDS OF PROJECT.  | ND ASSOCIATED G&S TIE-INS AT EAST                                    |   |  |   |
| C: MAJI  | =-3, OPEN TRACK 2 TO SERVCE (TRACK 1 IN SERVICE ON EXISTING BRIDGE, TRACK 2 IN SERVICE ON NEW BRIDGE).  | V EXISTING BRIDGE, TRACK 2 IN  |   |  |   |
| IC). CONTINUE PHYSE IA AND 18 ACHIVITIES AS MEDICO.  ICZ. INITIATE CONSTRUCTION ON EAST APPROACH EMBANAMENT AND WEST APPROACH EMBANAMENT.  | II—4. INSTALL SAFETY AND SECURITY EQUIPMENT FOR TRACK 2 (OR OTHER PROPOSED LOCATION FOR THIS EQUIPMENT).  | TRACK 2 AND AT THE OPERATOR'S SHANTY IPMENTY.                        |   |  |   |
| CONSTRUCT WEST APPROACH EN   | <u>\$</u>   | THE BUILDOUT OF THE NEW TRACK *.                                     |   |  |   |
| C.3. 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.  | 9-=   | NS).   |   |  |   |
| ICA. CONSTRUCT PORTION OF WEST SIDE AND ENST SIDE FENDER SYSTEMS. NANIGATION CHANNEL AT SHORES FENDER FENDER PREPROMEMETS 118—17 10 :139—17 WOTH. DEMOLISH PROPRIATE AND SAFE SIDE FENDER SYSTEMS.   |   | D SIGNAL TIE-INS AT THE EAST AND WEST AT THE FAST AND MEST           |   |  |   |
| ICS. CONSTRUCT FOUNDATION AND SUBSTRUCTURE OF BASCULE PIER 7.  | PHASE DURING TRACK 1 TIE-IN WORK, SINGLE TRACK SERVICE WILL CO  |  |   |  | - |
|  | PH III. TRACK 1 SWITCHOVER, ONE RACK OPFRATION ON TRACK 2 III-1. INITIATE ONE—TRACK SERVICE ON TRACK 2.   | 2  |   |  |   |
|  |   | ND ASSOCIATED C&S TE-INS AT EAST                                     |   |  |   |
| C.B. INSTALL PRESISTANCE NA WIRRD SINCH, IDRICADERS ON HIS RICH-TO-MAKA AND CONSTRUCT<br>CASS TACITITIES ON APPROACHES AND RENDED APPROACH SHALLS INSTALL ALL PERMANDIT TROUGH<br>CASE L'ONDOIT ON TOO CHANGE NEEDS AND TREES ON THE LOUISON. INSTALL ALL PERMANDIT TROUGH<br>CASE L'ONDOIT ON TOO CHANGE NEEDS AND THE TREES NOW THOUGH TO THE ADMINISTRATION OF SISTEMATION. SHEET   | = = 5.  | CE OVER NEW BRIDGE);   |   |  |   |
| WAS EUDIFIERN LADRISTATURED TO PROTOGE LIBERTANCE LIBERTANCE CONTRACTOR  |   |  |   | ENVIRONNENTAL PERMIT PLANS<br>PLAN DATE: MAY 2, 2023   | Т |
| mtrak (in the second of the se   | auto parcolder  | HARDESTY & HANOVER, LLC  | HANOVEI<br>E E R I  | LLC COSSINGENT OF MB 106.89 Seed to 100.00 OVER CONNECTICUT RIVER Seed to 100.00 SUGGESTED CONSTRUCTION SEQUENCE ## PARTY OF 140.00 SEGUENCE # | 9 |
| und just an interestive and the art personal probability of the control of the co   | alpia, Pernaphana 19104   | 25.11.60   |   | 72023 \$ 1   |   |

S THE ST COOK!

#### SAFEGUARDS NOTES: CONSTRUCTION STAGING AND ENVIRONMENTAL

## INITIATE TEMPORARY ACCESS FROM OLD SAYBROOK

L. MOBILEE, CILER SITE, AND BEGIN SETTING UP TEMPORARY ENVRONMENTAL AND SEDURITY SPECIARCES.

2. STATE-LISTED, PLANT SPECIES, WITHIN JURIANT ADEAS OLDER. TO THE PROPERTY OF T

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TRESTLE WORK PLATORNES.

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

1. BEDN APPROACH EMBANKURIN CONSTRUCTION IN 01D. SAYBRODK AND OLD LYME. (SEE WEST EMBANKURIN CONSTRUCTION NOTES, SHELF OSD-046, A AMANITAIN CONTINUED TRYPORARY EMMEGNIEUTH, AND SECURITY SAFEDUARDS IN ADVANCE OF SECURITY, AND SECURITY SPORT IN ADVANCE OF SECURITY, AND SECURITY SPORT IN ADVANCE OF SECURITY SPORT AND SECURITY SECURITY

### PHASE INBG: REMOVE TEMPORARY CONSTRUCTION ACCESS AND RESTORE SITE

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

PHASE IVB: DEMOLITION ENVIRONMENTAL SAFFICUARDS

1. FRANCE TELEPONAT PRESTE WORK PLAFFORMS INICUDNG ALL TEMPORARY PILES FROM EACH ADDRESS. TROUGH TO THE WAS A LIAMOR INCLESSED PRINCIPLE. THE STATE AND UTBEEP PARKING LOT PERMANDEN TAX. SERVINE THE STATE SHORT AND THE WAS AND THE PROPERTY OF WHICH A TEMPORARY RETAINING WALL SSSTEAS, AND TEMPORARY RETAINING WALL SSSTEAS, AND TEMPORARY ABOUT STATE FROM THE CONTINUENT OF THE STATE SHORT INCLUDING THE PORCH AS INSTALLED (MAY REQUIRE SHORT INCA'S SERVICE SHORT INCLUDING THE PORCH AS INSTALLED (MAY REQUIRE SHORT INCA'S SERVICE SHORT INCA'S SERVICE SHORT INCLUDING THE PORCH AS INSTALLED (MAY REQUIRE SHORT INCA'S SERVICE SUB-YCLINE, SET INAL WITLANDS MITCH YOU PLAN REPORT FOR ADDITIONAL INFORMATION ON SET ESTORATION OF THE PORCHARY TO STREAM FOR THE STATE AND THE PORCHARY SHORT SHOW SHOWN TO MAKE A STREAM SHOWN CONSTRUCTION FOLLINGS AND RESPORT STLAND ARE SHOWN TO MAKE AND THEN PRINCIPLE IN THE WAS AND THEN PRINCIPLE MAY SET IN MATCH AS STREAM SHOWN CONSTRUCTION FOLLINGS AND RESPORT STLAND MAY ARE WANTED IN APPLICATION SPECIAL STREAM SHOWN CONSTRUCTION TO THE WANTEND IN MATCH AND MAY ARE AND THEN PRINCIPLE MAY AND THE WAS STREAM SHOWN.

NOTE:
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CONTRACTOR IS RESPONSIBLE FOR ANY BORINGS NECESSARY TO FACILITATE THE DESIGN OF THE TEMPORARY WORK PLATFORMS.

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

#### PHASE IC: TEMPORARY ENVIRONMENTAL SAFECUARDS

1. INSTALL COFFERDAMS FOR REDGE WEST AND EAST ABUNDANTS, PIER 9, AND RETAINING WALLS.
2. INSTALL SELEC CASING WITH VIBEACRY HANDERS AND SHILLED SAFE'S WHI CONSTRUCT CAPS.
3. DREDGED VAREAUL FROM THE PERS WILL BE REMOVED FROM SITE AN BASGE AND DISPOSED
4. ODSTRUCT AND AND FROM SITE AND SHAPPING BY THE AND SHAPPING BY A SUBSTRUCTURES AND RETAINING WALLS ALL BEHIND
5. OF ALM AN PREMOVED FOR FASHE AND SHAPPING AND SHAPPING BY THE WASTALLED AND SHAPPING BY THE WASTALLED AND SHAPPING BY THE RETAINING AND SHAPPING BY THE PREMOVED WASTALLED AND SHAPPING BY THE PREMOVED BY SHAPPING BY THE PREMOVED BY THE PIECE OF SHAPPING BY THE PIECE OF THE PREMOVED BY THE PIECE OF THE PREMOVED BY THE PIECE OF THE PREMOVED BY THE PIECE OF THE PIECE

SEE SHEET PH-01 FOR SUGGESTED CONSTRUCTION SEQUENCE.

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National Railroad Passenger Corporation Stort Station, Philadelphia, Pennsylvania 10104 Office of Chief Engineer STRUCTURES

HARDESTY & HANOVER LLC
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1501 Productions, PA, 19103

REPLACEMENT OF MB 106.89
OVER CONNECTICUT RIVER
STAGING PLAN - CIVIL NOTES
OB DAWN ORNO CONSING NOTES

PH-02 Project Code, XXX XXX WBS Sheet No. 75 OF 14

ONMENTAL PERMIT PLANS DATE: MAY 2, 2023

#### ENVIRONMENTAL COMPLANCE NOTES

- ALI ON-SITE CONSTRUCTON STAT" MIL. ATTEND TRANSING BY A QUALITIED ENVIRONMENTAL SCIENTIST AND RECENE A CORP. OF FINAL WILDLIFE PROJECTION FLAM PRIOR TO BESINNING WORK ON STE.
- A QUALIFIED ENVIRONMENTAL SCIENTIST WILL BE PRESENT WHEN WORK IS BEING CONDUCTED. ci
  - MODES-DENERS, WE COUSTRACTION ACTIVATES, UNCY. BESIN PRIOR TO MAY TO MAY TO MAY THE WEST OF MAY THE REPURPOR TO MAY THE WEST OF THE WEST O .;
- IF 3ALD EAGLE NESTING ACTIVITY IS OBSERACD WITHIN SOCIT FROM OR SYNCHOLIDIN ACTIVITY, ALL CONSTRUCTION MUST STOP UNTIL NESTING OR PROGRAMO, ACTIVITY MS OBASED. \*
- CONSTRUCTON WITHIN TIDAL CREEKS OF SIMILAR CHANNELIZED ACLATIC HASIN. TS ROCHERIZED BETWEEN NOOENBER 1 MARCH 31 TO PROTECT OFFICE-WAINENDS STATE-LISED TURTLES.
- CONSTRUCTION IN AREAS THAT FLOOD DALY WILL BE CONDUCTED DURING LOW TIDE TO THE GREATEST EXTENT PRACTICAL FROM APRIL 1 OCTOBER 31,
- WORK LIMITS HALST BE ENGLOSED BY A WILDLIFE BARRER SYSTEM WAS BEFORED WAS A STATE OF RELEVANTED WORK SHARES, TO PREVENT FOR THE PER STATE—LISTED THATES, THE SOLATON WORK LIMITS, THE SOLATON WORK LIMITS ARE TO BE INSECTED DATE FOR HAMBOURDER CONSTRUCTION STATE—OF INDUSTRICAL STATE OF WORK LIMITS AND THE STATE—LISTED THATES THE PER STATE—LISTED THATES THE PER STATE—LISTED THATES THATES ARE TO BE STATE—LISTED THATES THATES ARE TO BE STATE—LISTED THATES AND THE STATE OF THE STATE OF THATES AND THE STATE OF THATES AND THE STATE OF THE STATE OF THATES AND THE STATE OF THE STATE OF THATES AND THE STATE OF THE STATE
  - CONSTRUCTION AT TWO SANDY BEACHES AND ADJACENT OF BEACHES OREDGING/EXCAVATION WILL BE INTIMIED PRIOR TO JUNE 1 OR BEACHES WILL BE COVERED WITH DEFERENT FROM JUNE 1 JULY 15.

00

- 9. SPEED L'YIT ALONG ACCESS ROADS IS NOT TO EXCEED TO MPH.
- 10. REPLETING OR HANDLING OTHER BIO-TOXIC LIQUIDS IS PROHAITED IN THE VICINITY OF LOW MARSH, RIVERBANKS, TIDAL CREEKS, OP DITCHES.
- 11, NACTIVE OSPREV NESTS WAY BE REMOVED FROM SEPTEMBER 1 MARCH : CEDEEP IS TO BE MOTHELD PROR TO REMOVING ANY OSPREY NEST.
  - 12. OSPREY NESTING MATERIALS ALONG THE SRIDGE WILL BE REMOVED TO DISCOLURAGE NESTING DIRING THE MONTH OF MARCH.
    - 13. TREE CLEARING IS PROMIBITED FROM JUNE 1 JULY 31 TO PROTECT NORTHERN LONG-EARED BATS.
- 14. APROPRATE SOIL ERCEION, SEDIMENT, AND TURBIDTY CONTROLS SHALL BE USED AND MARNAMED LOURNS CONTROLLONG, ACRES CAPABLE OF PRODUCING GREATER HAM MINVAL TURBIDTY OR SEDIMENTATION WILL BE DANK DIANG PREPROS OF LOW- OR ND-FLOW TO PROTECT HISHERS RESOURCES.
- WORK THAT PRODUCES SPEATER THAN MINIMAL TURBIDITY OR SECHIENTATION (DONE QUISIDE OF TURBIDITY CUSTAINS OR COFFERDANS) TO PROTECT FISHER'S FESCURACE.
- TO REDUCE THE MODE IMPACTS FROM DRIVING SHEET PILE AND SHATT CANSINGS, ONLY WIRANJOPY HAMMERS SHOULD BE USED DURING THE DADDROMOUS FISH MIGRATORY PERIOD FROM APPIL 1 JUNE 30, NGLUSNE,
- CONSTRUCTOR OR DELCLTON OF PIESS SHOULD SE LYTED TO BITHER THE WESTERN-VOST THERE PRESS (PIESS) 1, 2, MD 10 MS NOW THE DESCRIBIONATE THE PRESS (PIESS) 7, 8, 9, DURRING THE DAMBOWOUS FEST SERVING MISSAND WESTERO FEOW APPL 1 JUNE 30. M VIO TIME DIRING THIS PRINCID SHOULD IN-WHITE CONSTRUCTION OF REMOUNTAND COCURS IN IT MAD MODE OF THE RIVER OR SIMULTANEDSIS VI MODE.
- DUBING THE SPRING MIGRATON PERIOD FROM APRIL 1 JUNE 3G, ARTFOLAL LIGHTING DVER THE WATER SHALL BE LIMITED TO MANIGATION LIGHTS AND ANY LIGHTING TYPICALLY REQUIRED FOR THE OPERATION OF THE SHORE,

- TIMBER PILES AND STONE PIERS SHALL BE REMOVED FROM INSIDE COFFERDMAS, BELOW HE MOLINE FULLING MAY GUITING OF TIMBER ES SHALL BE PROHIBITED FROM FERRUARY 1 JUNE 30.
- 20. \*\*D MINIMAZE CONSTRUCTION RELATED TURBIDITY TULL DEPTH TURBIDITY CIRCLARIANS SHALL SE DEPUCACIO PRIOR OF TO SHALL SELECTORY OF THE AND CURRENTS THE PABRIC PER THE CHARLES SHOLL TO STROME THES AND CURRENTS THE PABRIC DEPTH SHOLL TO STROME OF A FASAW TWOST PREVIOUS NATIONAL TO GENERAL A FLOW-TIMBOLICH MEDILAL, WHICH MILL REDUCE THE PRESENCE ON THE CONTRANS AND THE THAIR SHALL SHALL SHALL THE SHALL SHA
- 21. 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 DAMACE TO BENTHIC AQUATIC ORGANISMS, ALL BARGE MOVEMENTS SPACE, TAKE PUED UDBING CONDITIONS THE VINNINGE OR DO OCEALE RMZS BOTTOM DISTURBANCE, WORK DONE FROM BANGES SHOULD ONLY OCCUR WHEN SUFFICIENT TIDE TO PREVENT ORDANISMS.
- 24. LOUD CONSTRUCTON ACTIVITIES INCLUDING DRILLING PILES AND DRIVING SPEET PLE OR SHAFF CONNESS (INCLUDING VERANCERY VEANS) SHALL 3 PROHIBITED FROM SINGET TO SUMRIEE DURING THE CONVERGIAL SHAD FISHING SEASON FROM APRIL 1 JUNE 15.
- 25. AMTRAK AND THE CONTRACTOR WILL MANIMAZE INTERFERENCE WITH SHAD FISHERY AND TANNY, COSTONS AND THAING WITH LOCAL FISHERMEN.
- 28. HE INSTALLATION AND REMOVAL OF THE TEMPORARY TRESTLE BRIDGE CROSSING LEATERANT RYER SHALL BE PROHIBITED FROM MARCH 1.— JUNE T, INCLUSIVE.
- 27. THE TEATOGRAP THESTLE BRODGE CROSSING LEUTENANT RIVERS SHALL COORDS WITE WITH ATTENT TO NOTHER TOWN THE FUBLIC OF CONSTRUCTION ACTURITIES ATTERITING THE WATERWAY IN ACTURITIES THE WITERWAY INCLUDING ADJANCED NOTICE OF ANY AMANGATION CLOSAGES.
- 28. SLEMARINE CASLE INSTALATION AND REMOVAL SHALL GE DONE WITHIN TUPBOLITY CLIRTANS, AND WAL BE PROHIBITED FROM FEBRUARY 1 JUNE 30.
- 29. WORK TRESTLE AND COFFERDAM CONSTRUCTION WILL BE DONE WITHIN TURBOTHY CURTA-US AND WILL BE PROHIBITED FROM FEBRUARY 1 JUNE 30.
- 33) PULLING OR CUTTING PILES (INCLUDING TEMPORARY WORK TRESTLE PILES AND THEIGHTED FROM FEBRUARY 1 JUNE 30.

Office of Chief Engineer
STRUCTURES
National Radiate Passinger Corporation
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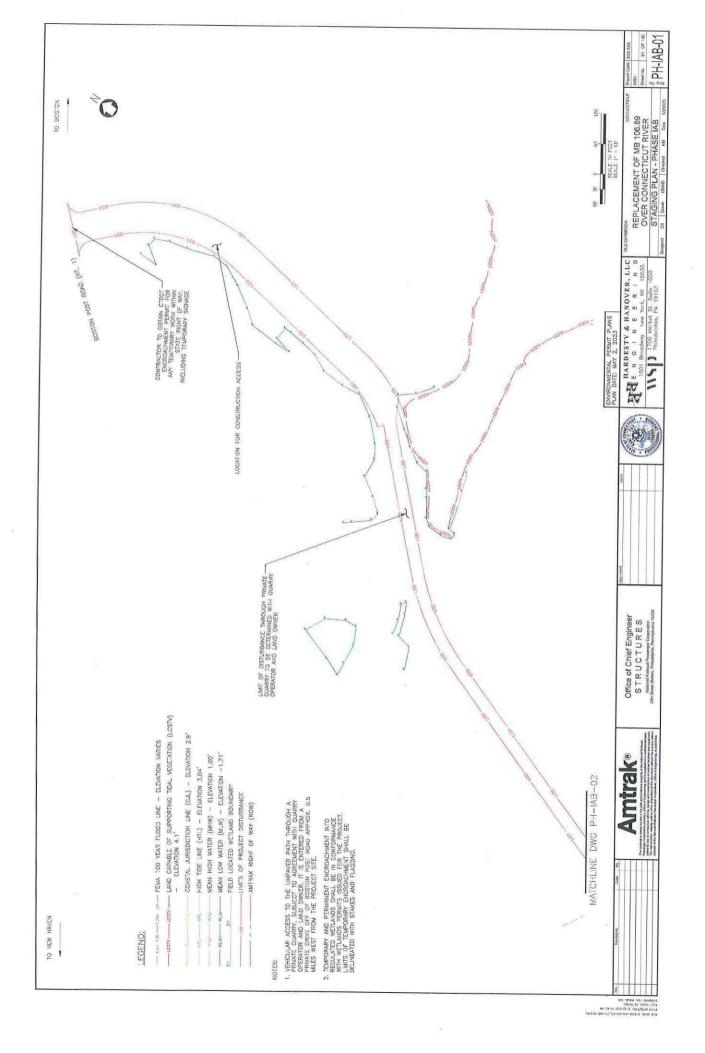
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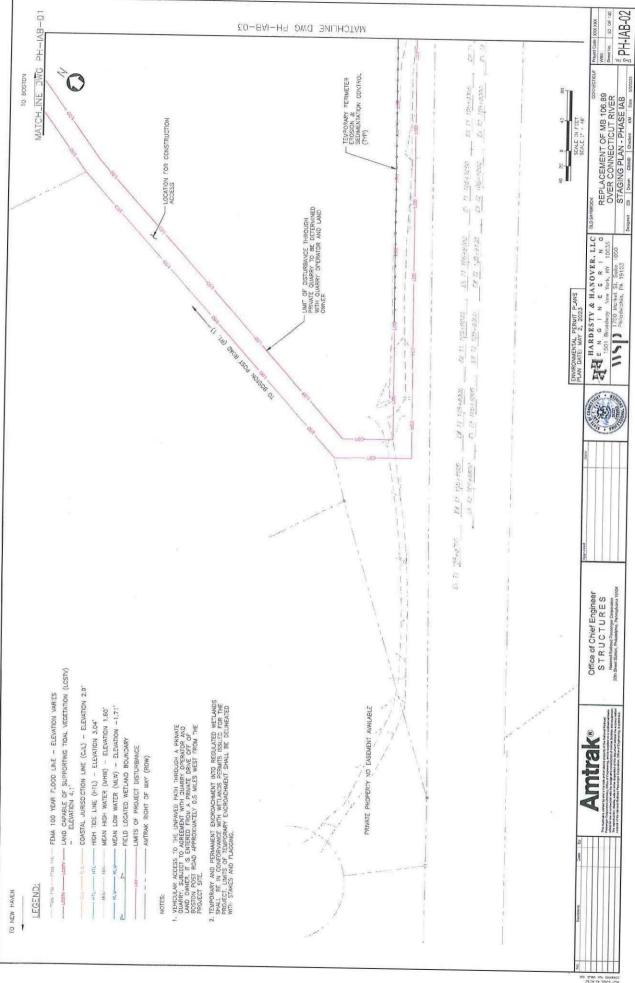
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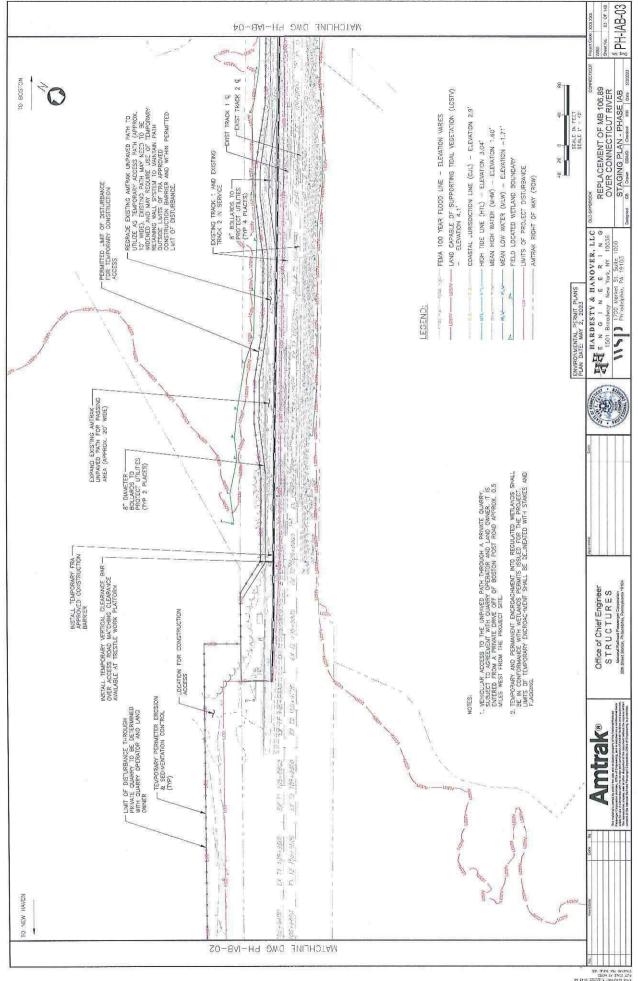
REPLACEMENT OF MB 106.89 OVER CONNECTICUT RIVER

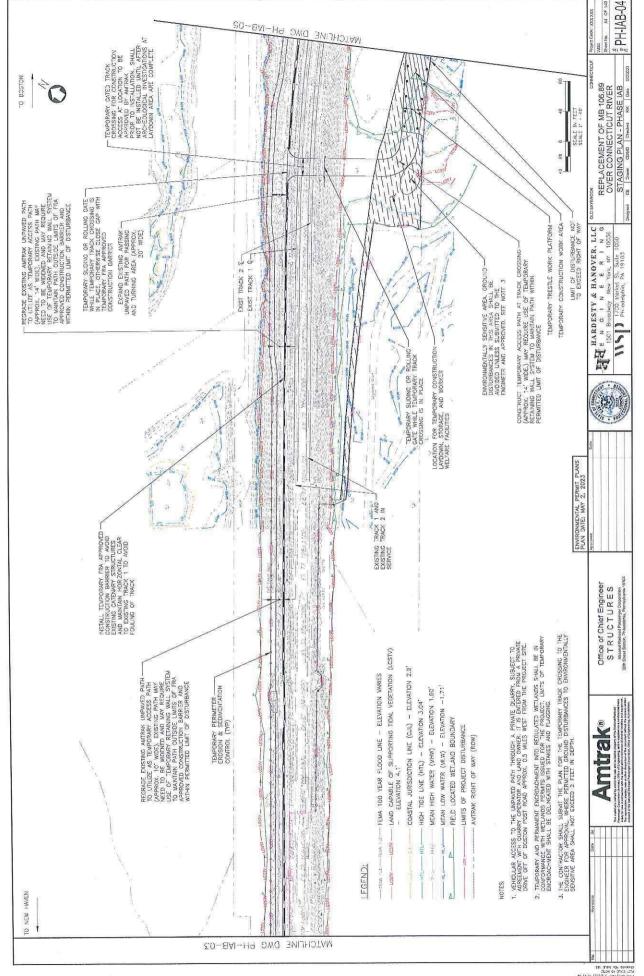
ENVIRONMENTAL COMPLIANCE NOTES

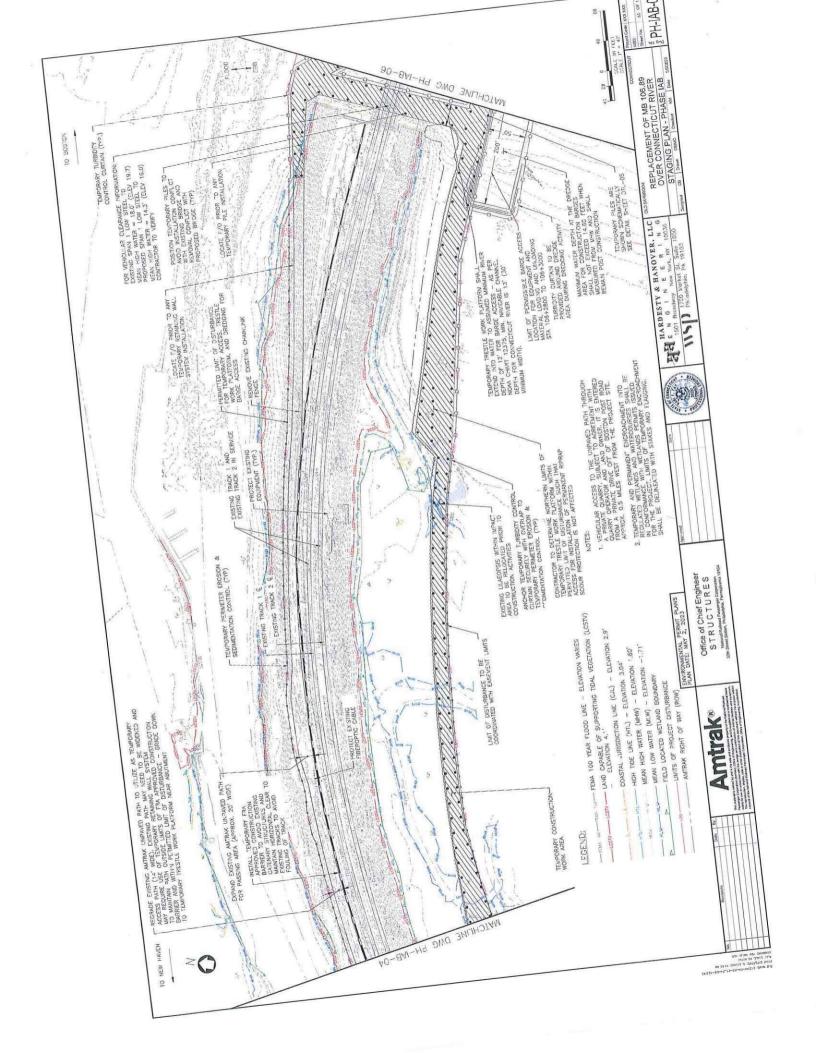
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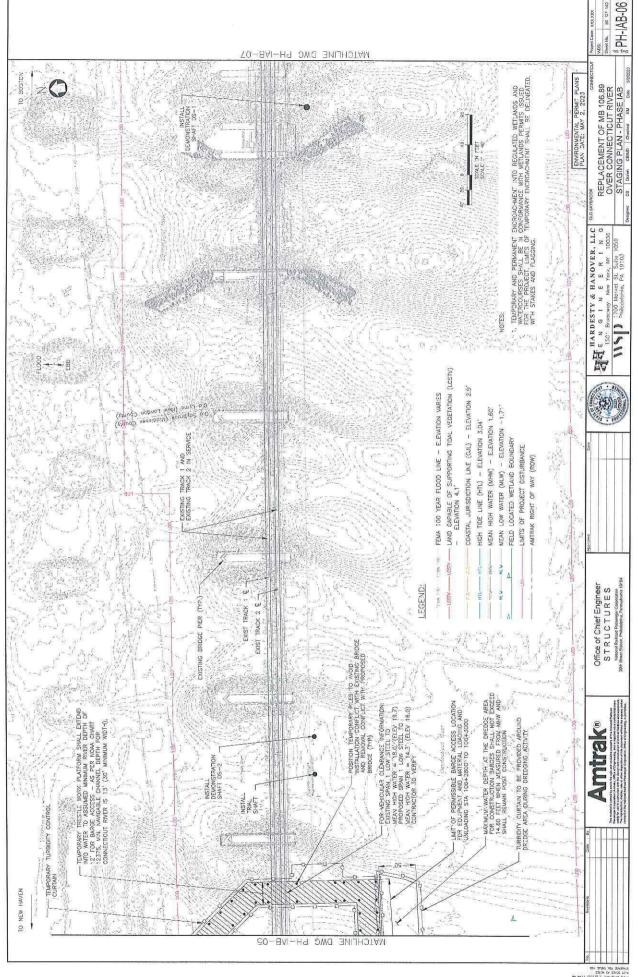


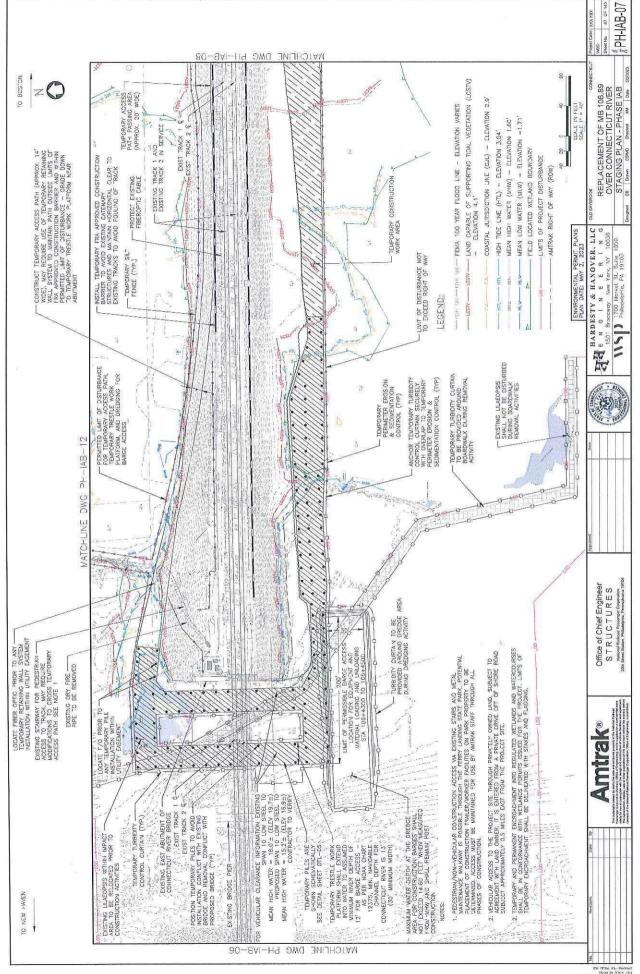


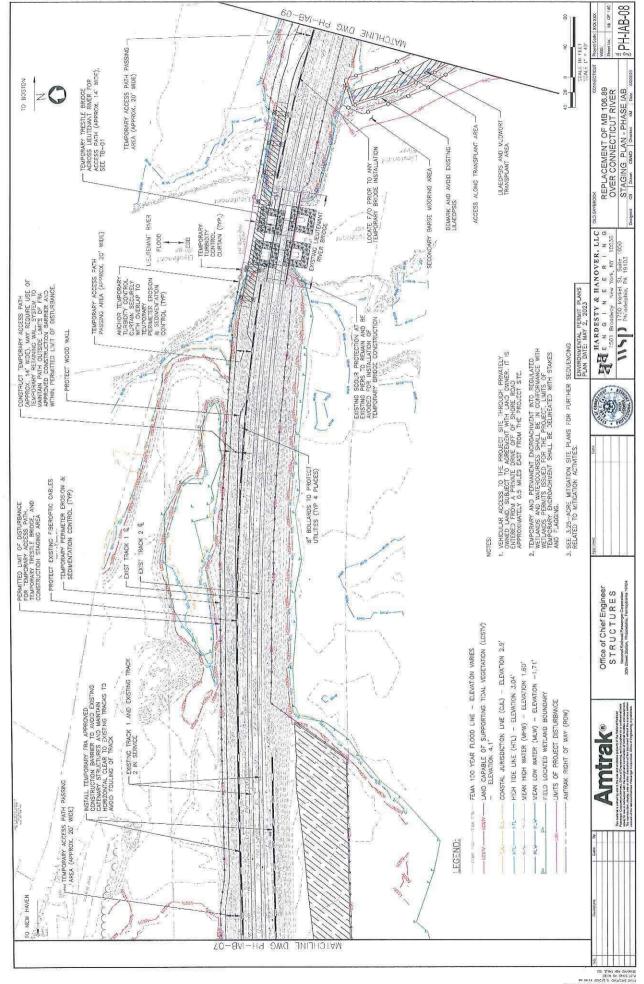


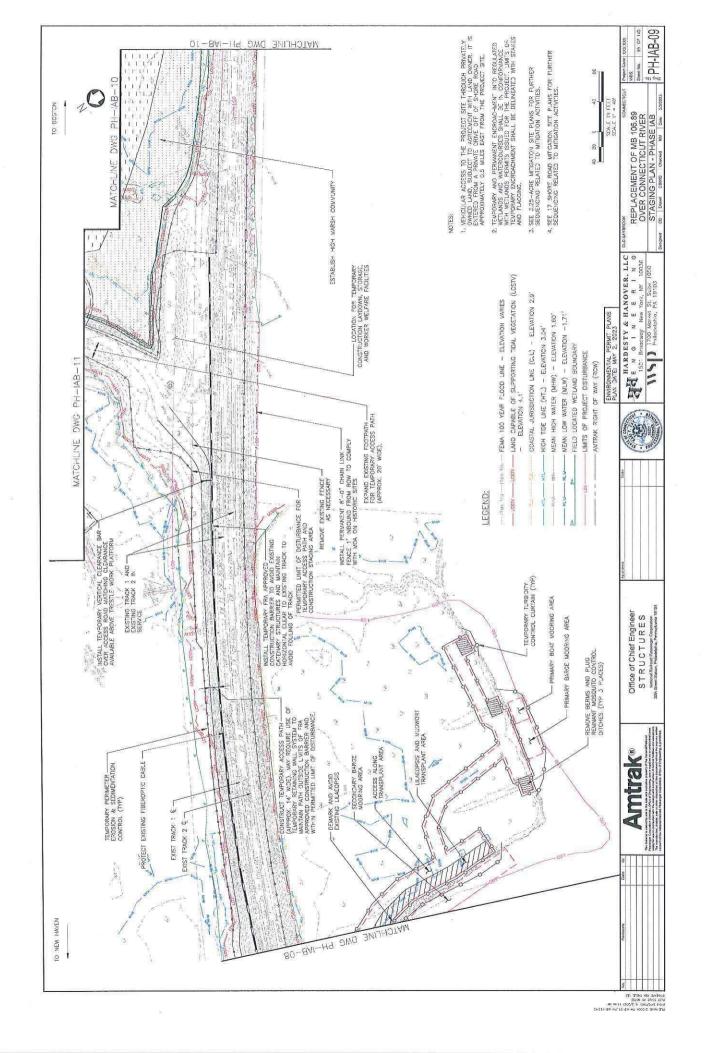


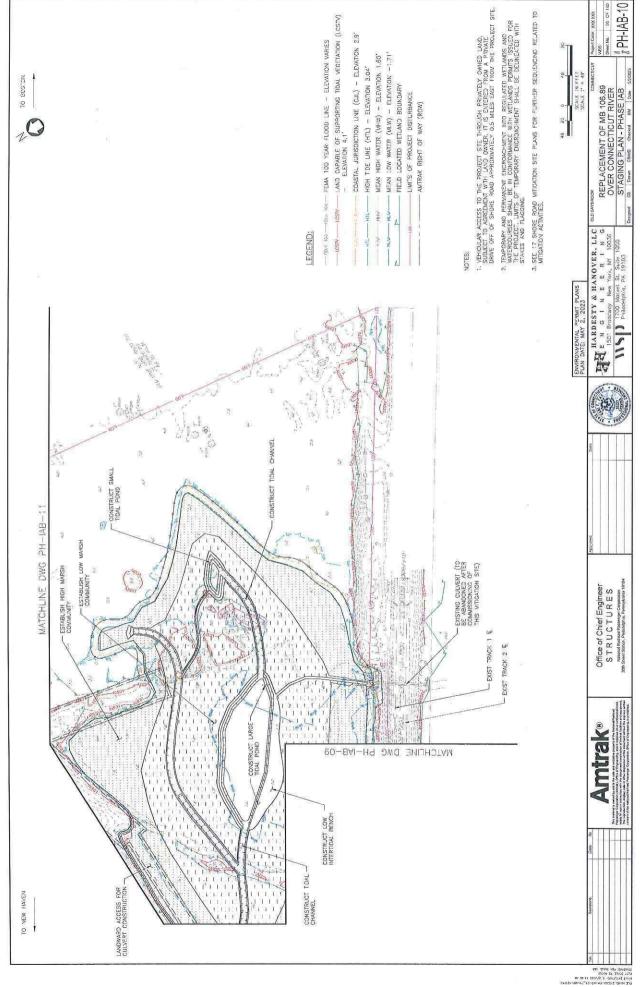


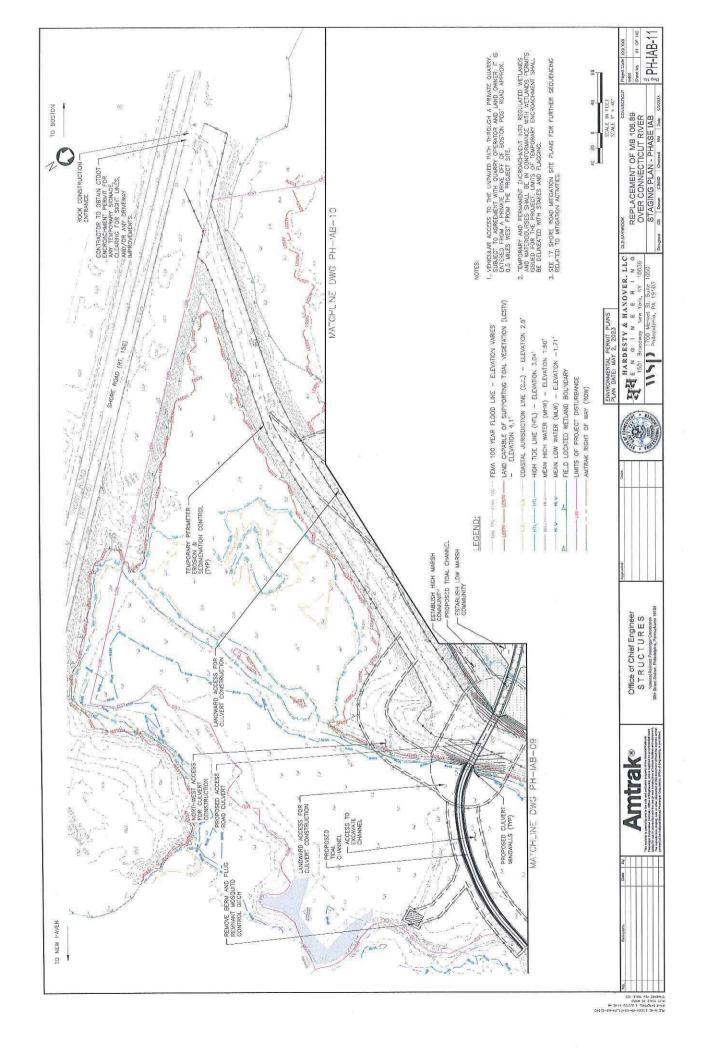


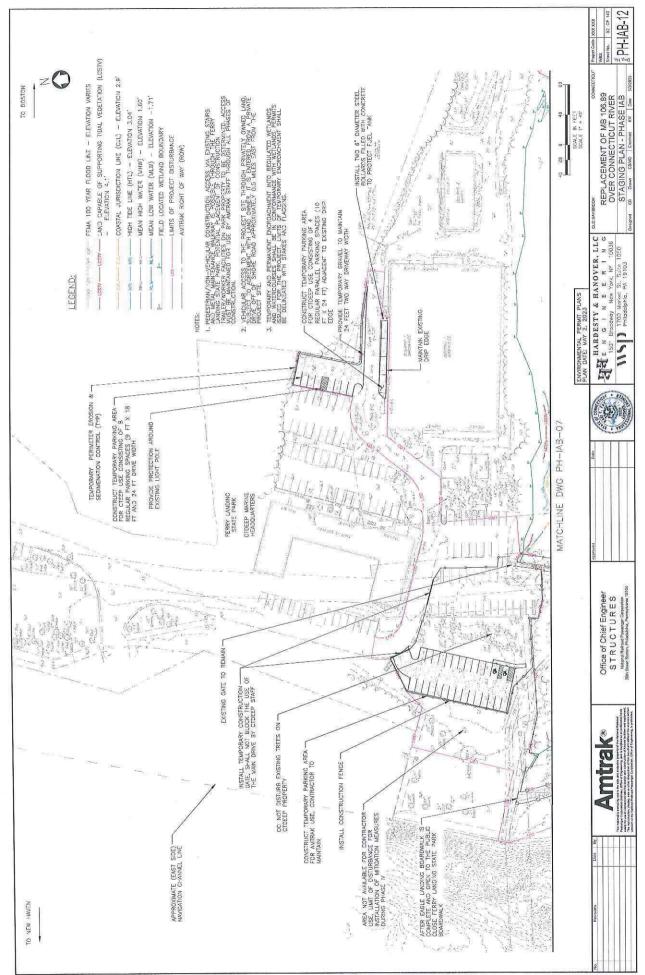


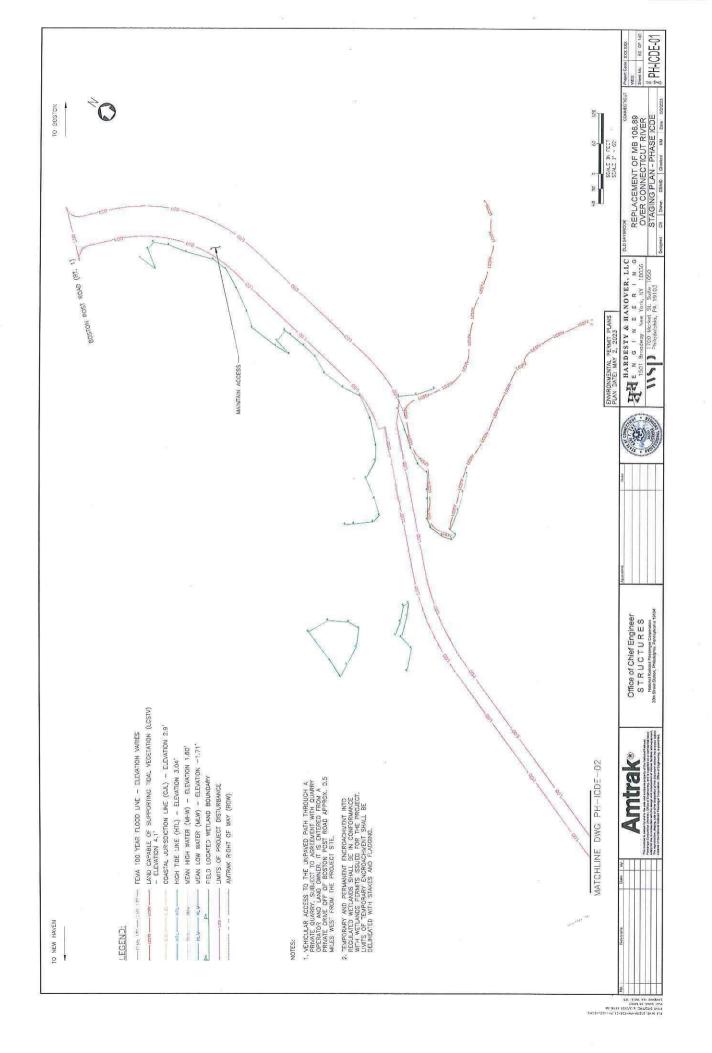


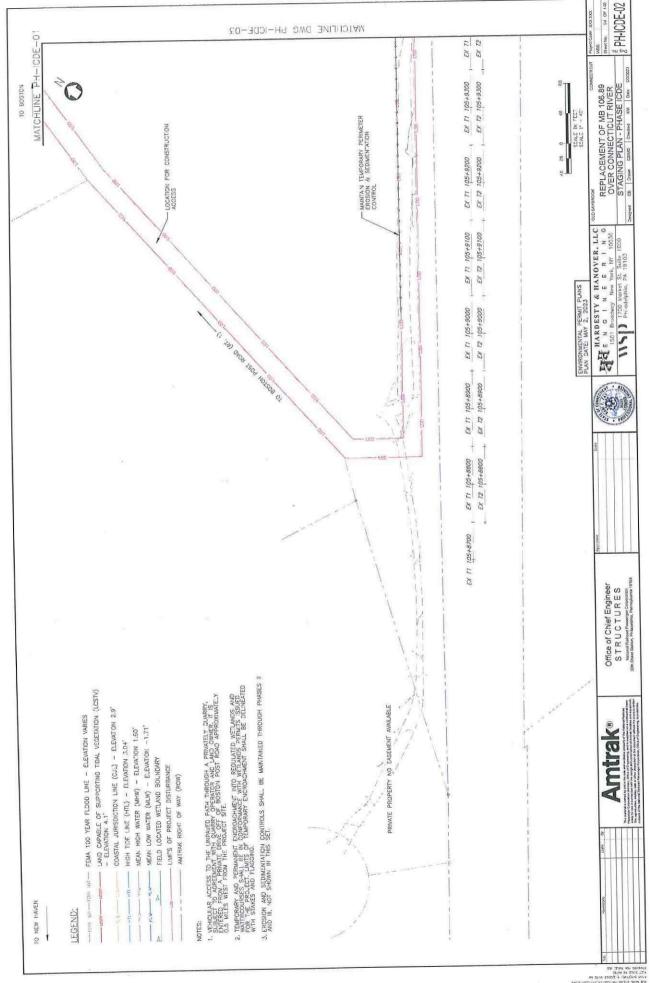


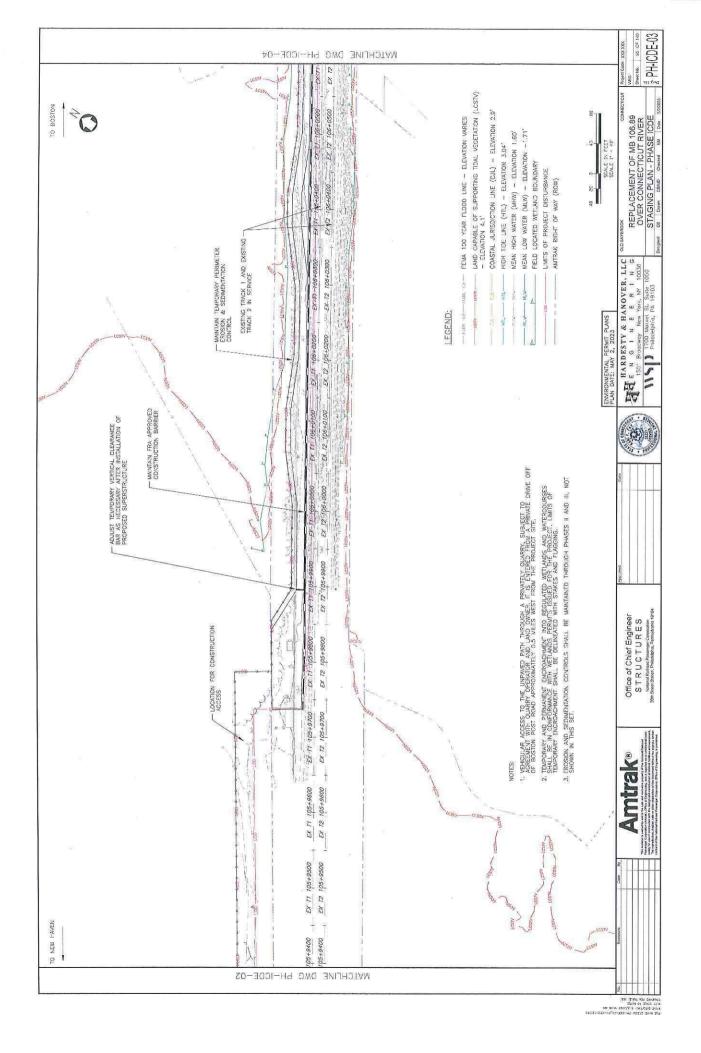


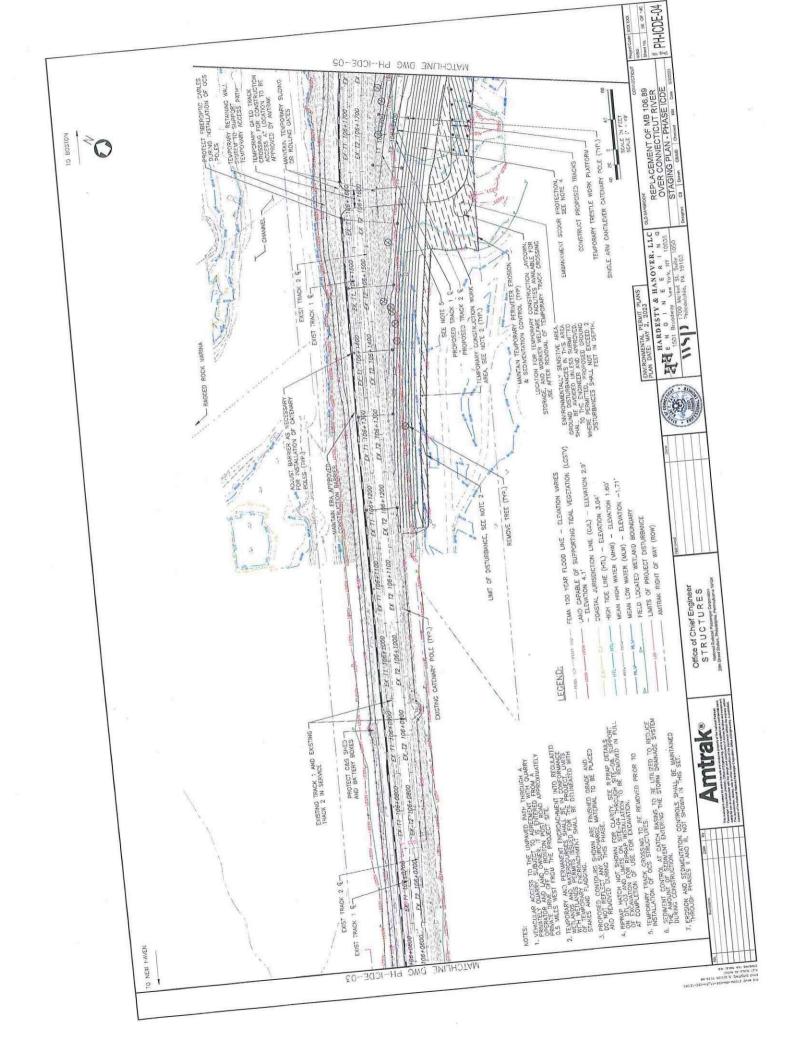


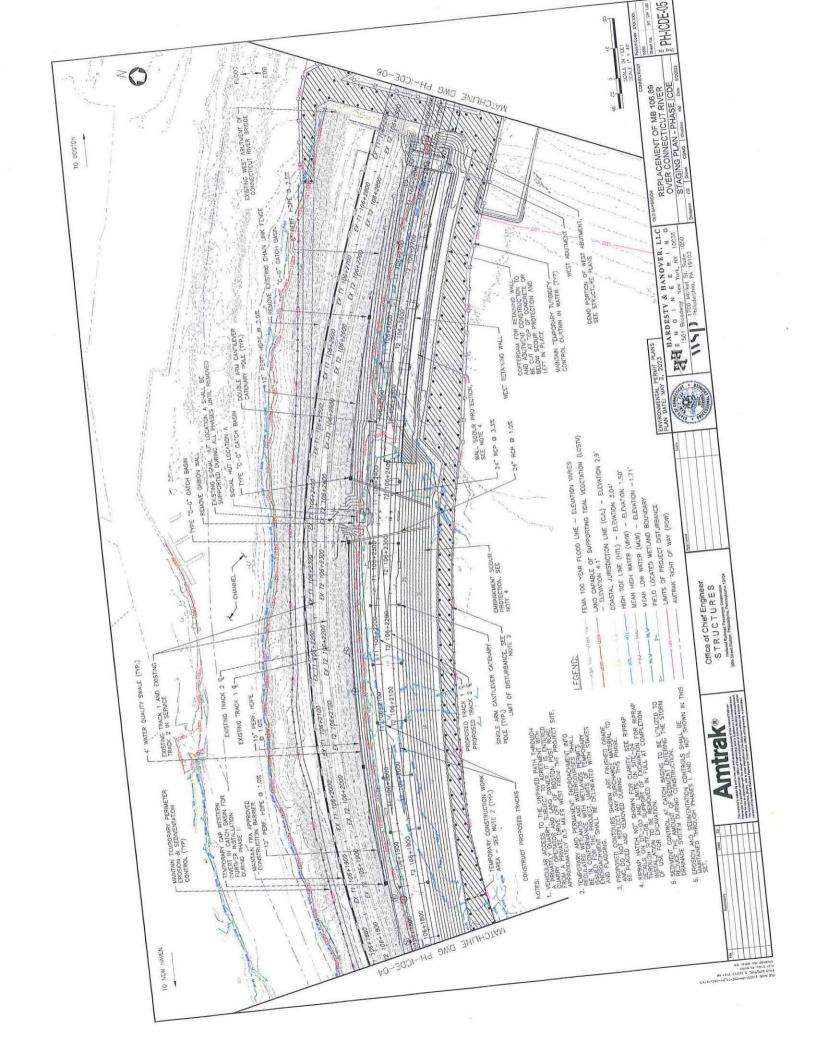


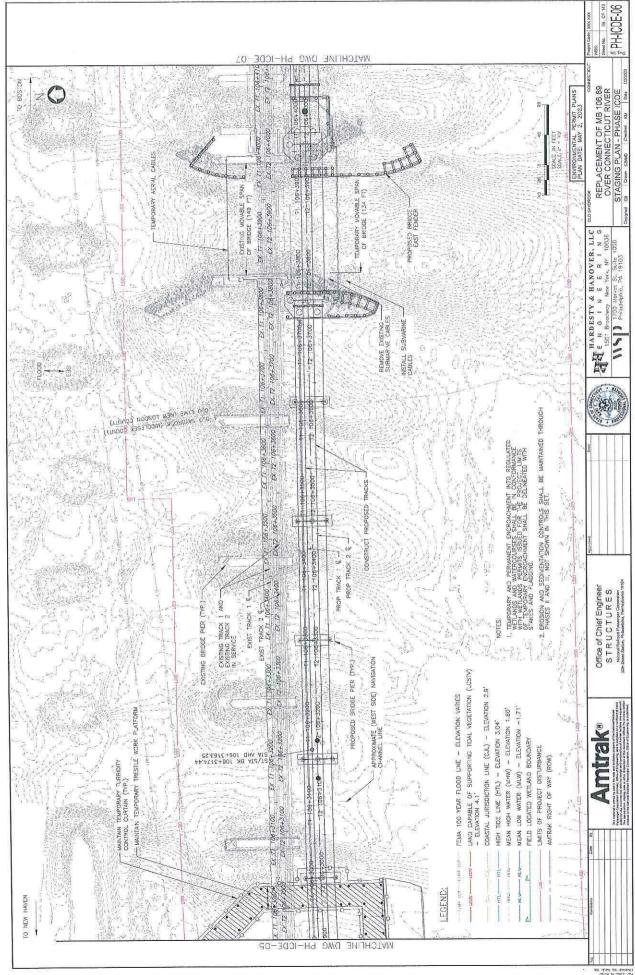


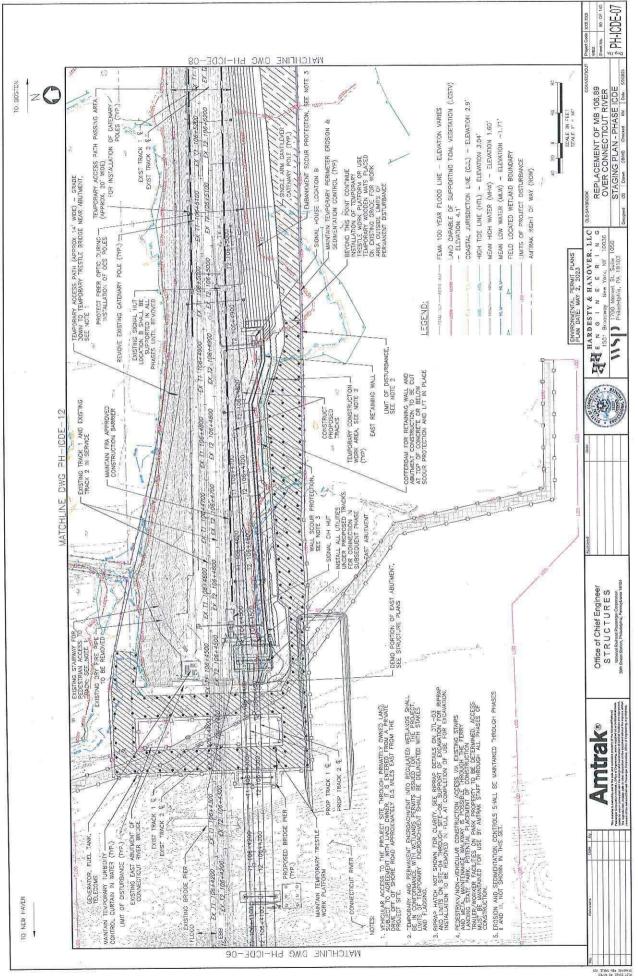


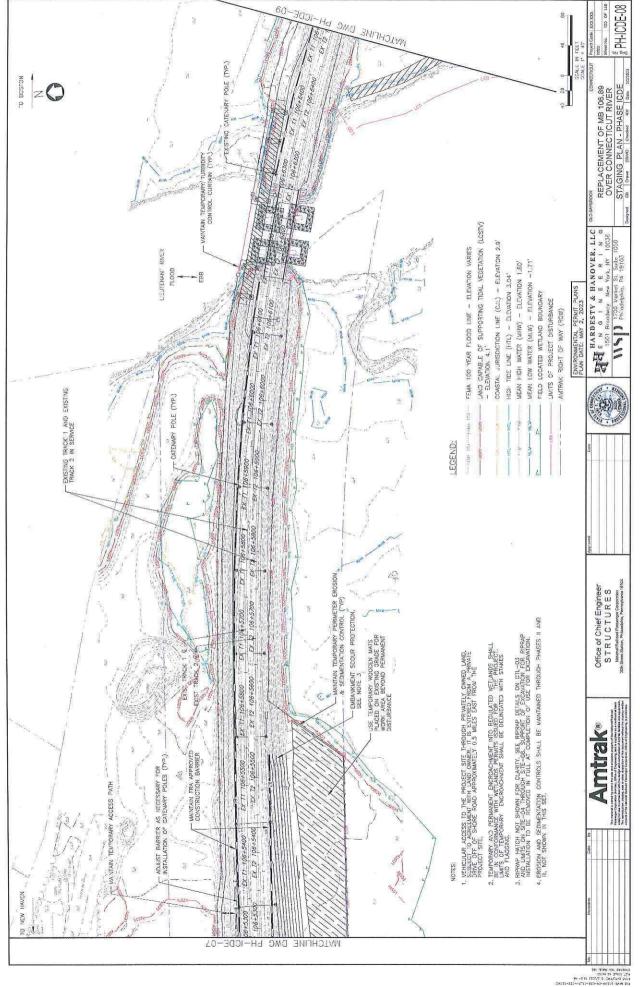


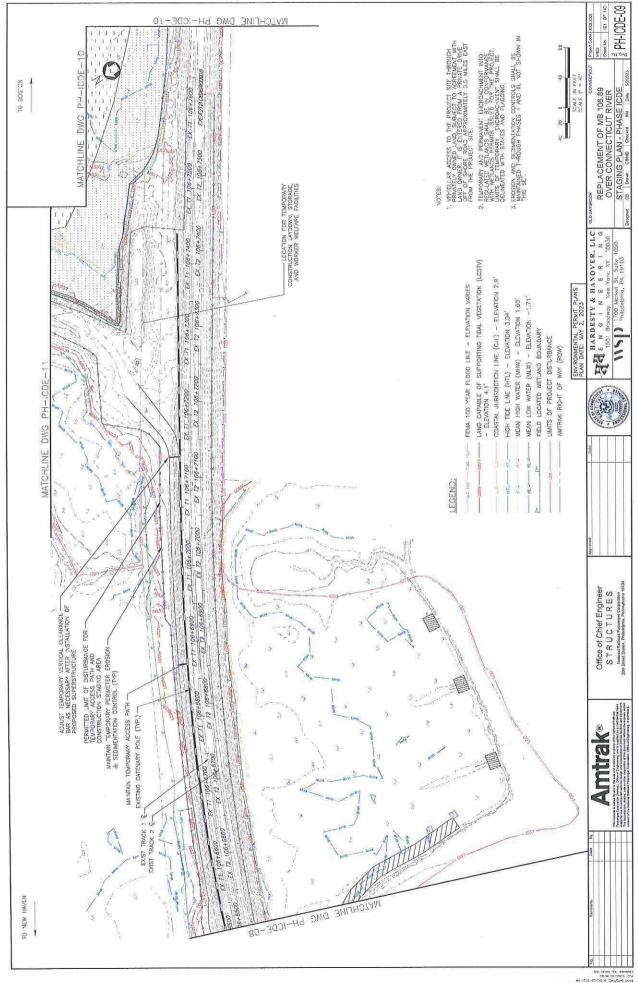


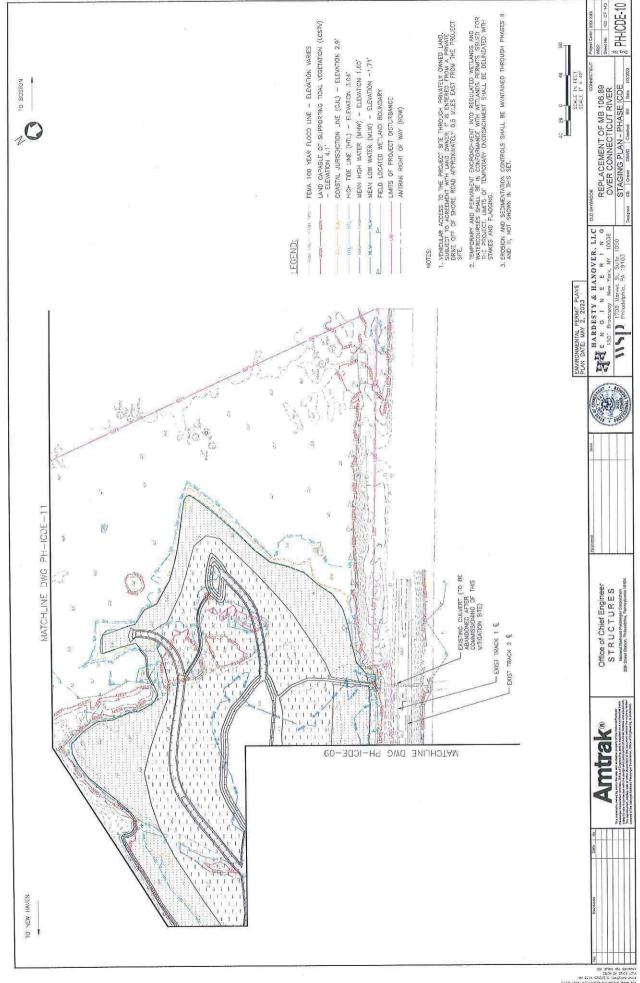


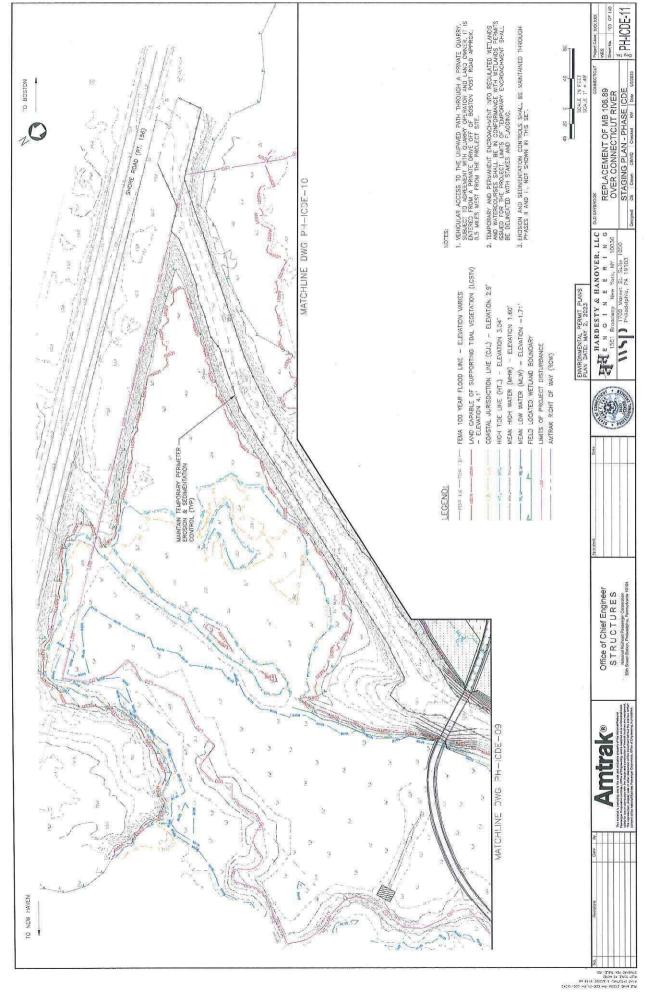


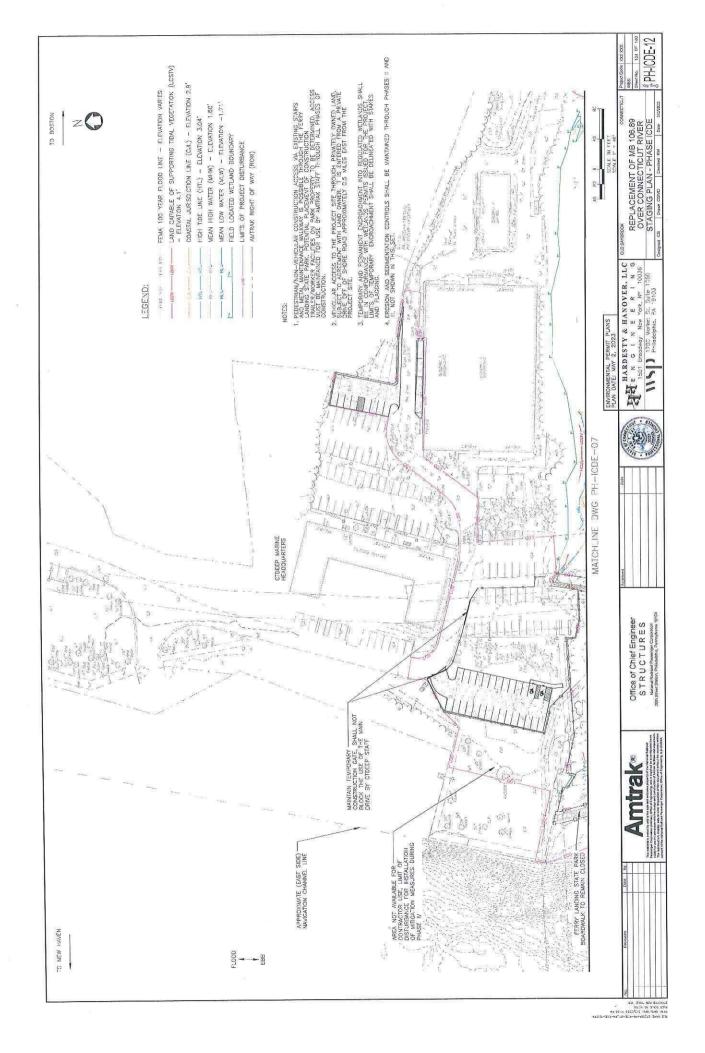


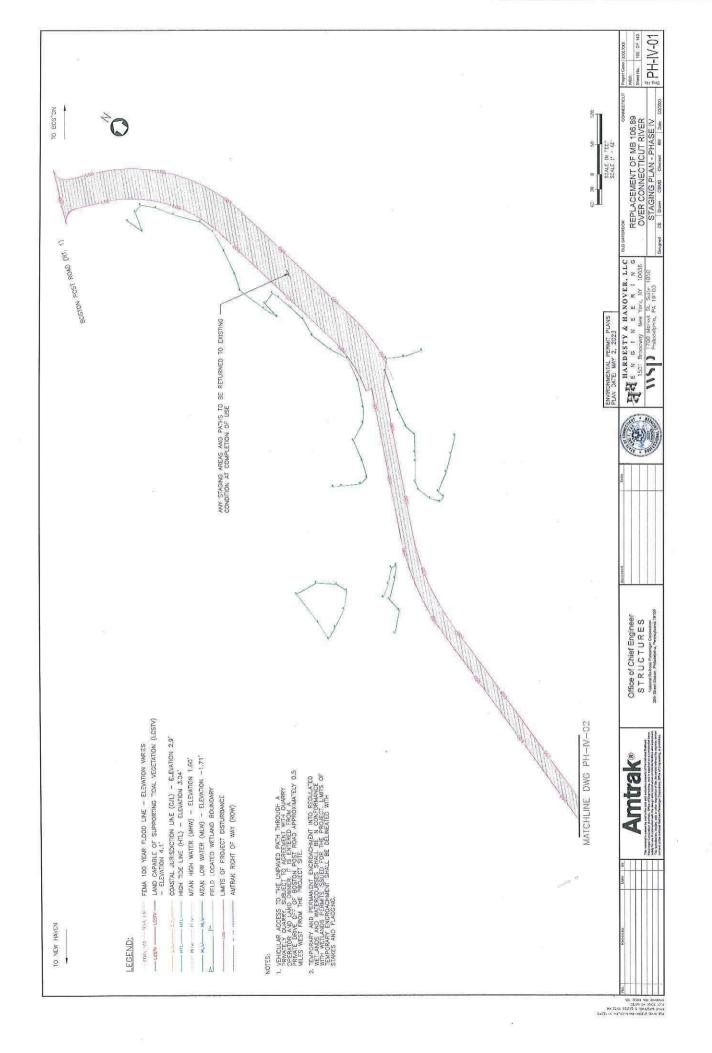


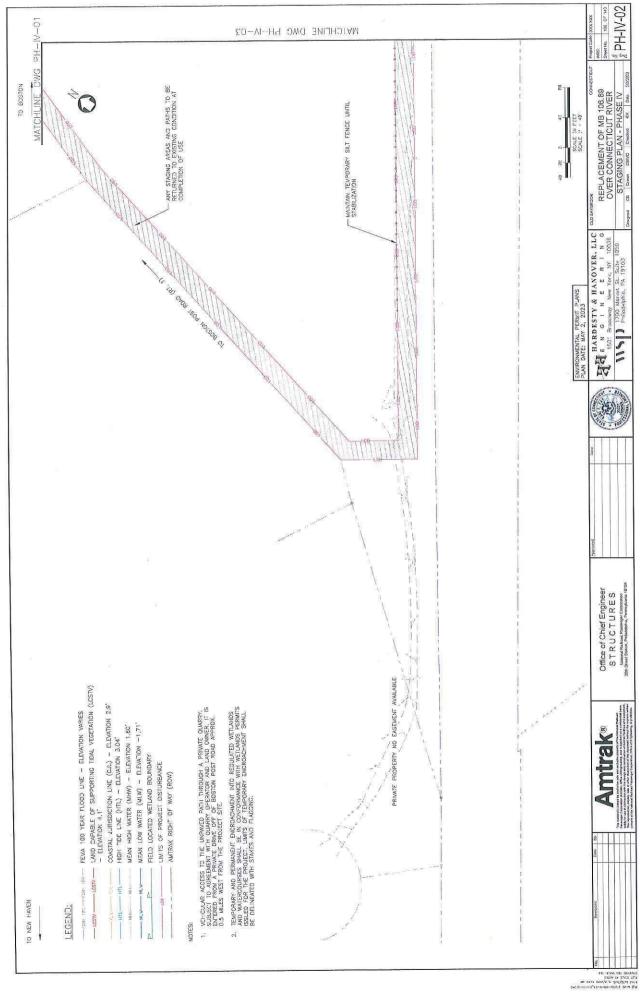


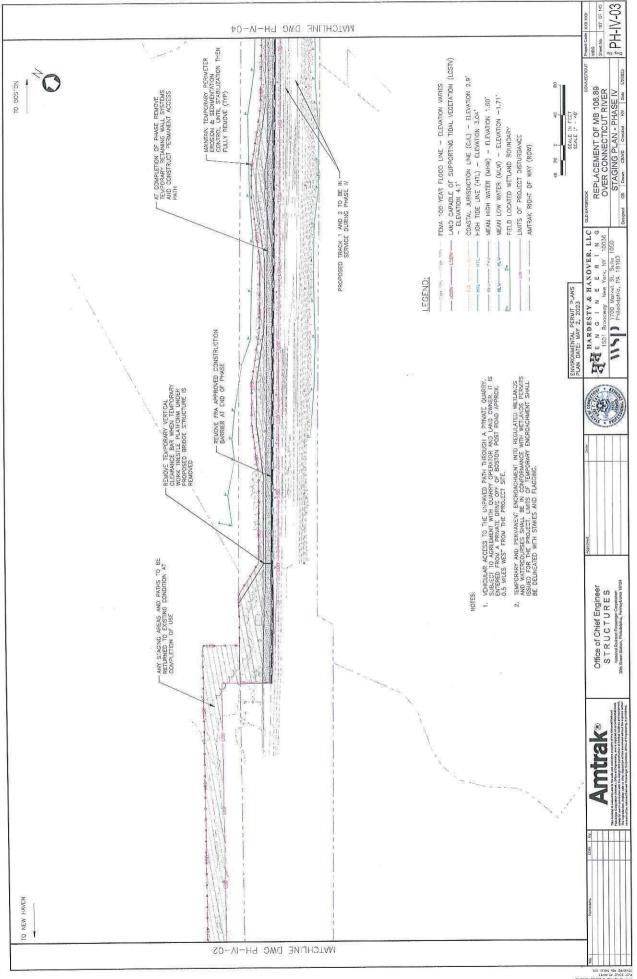


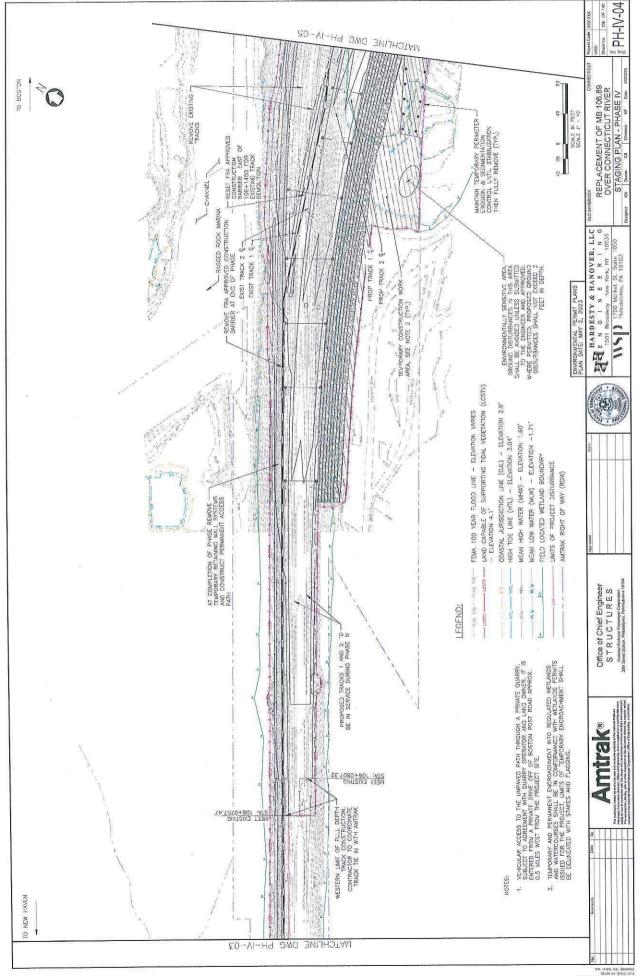




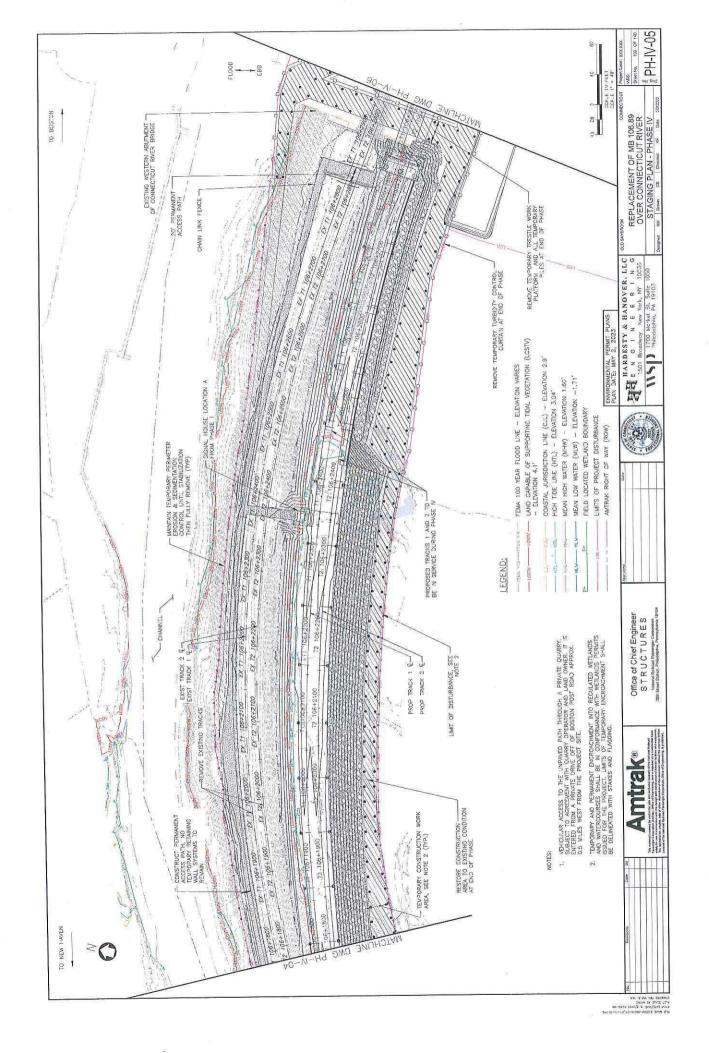


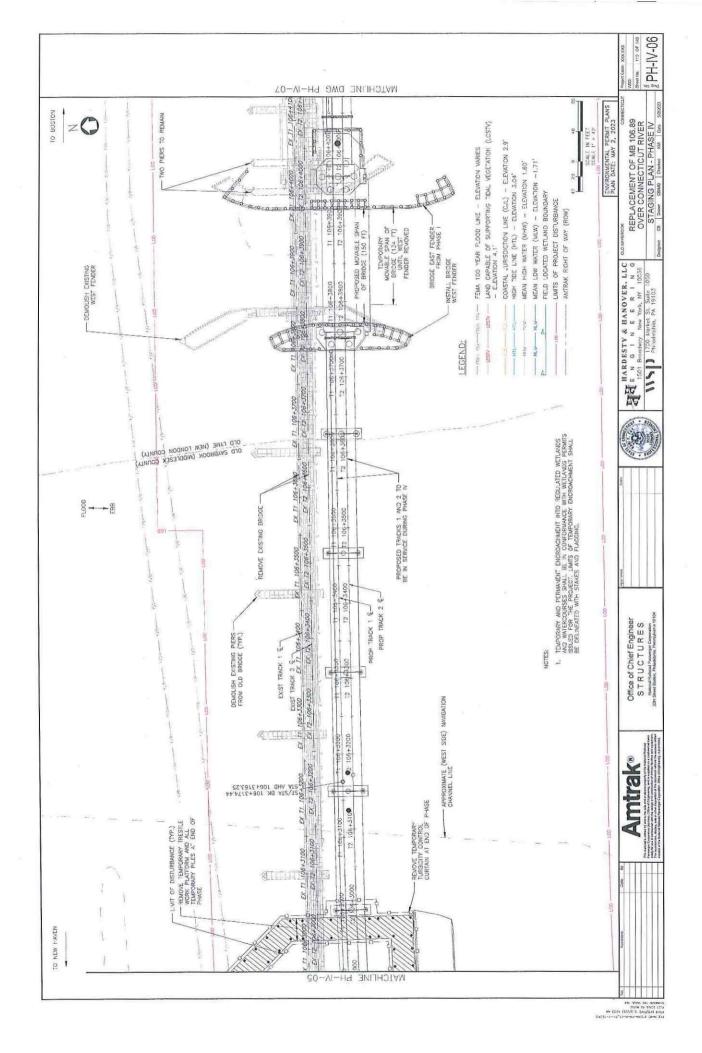


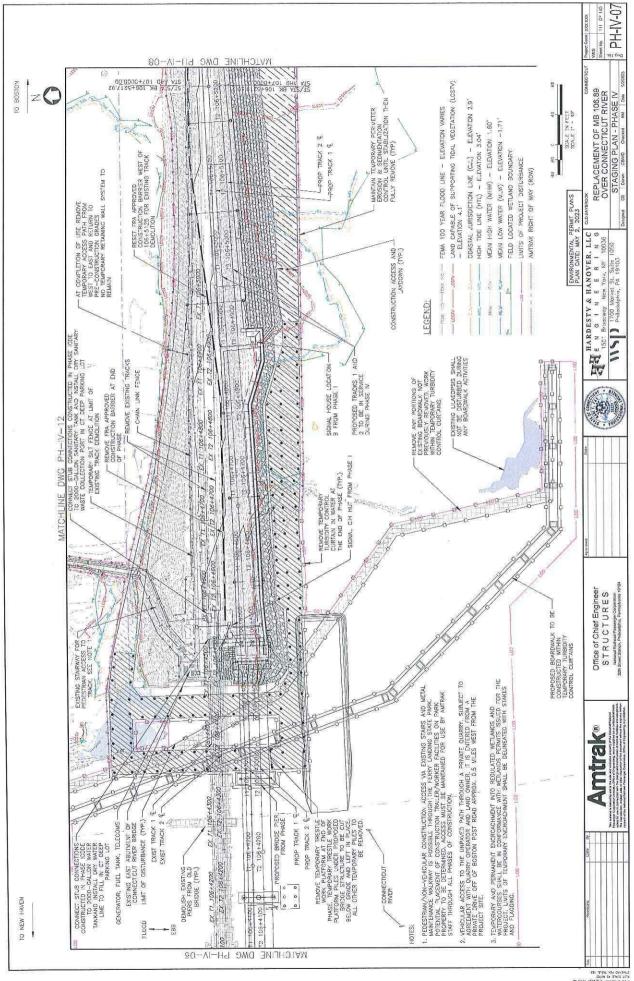


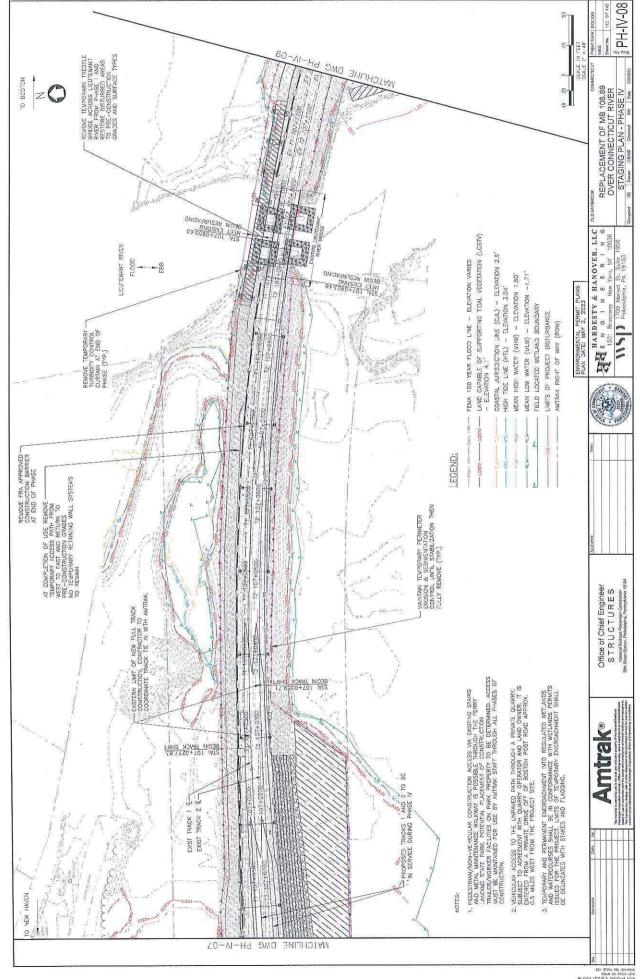


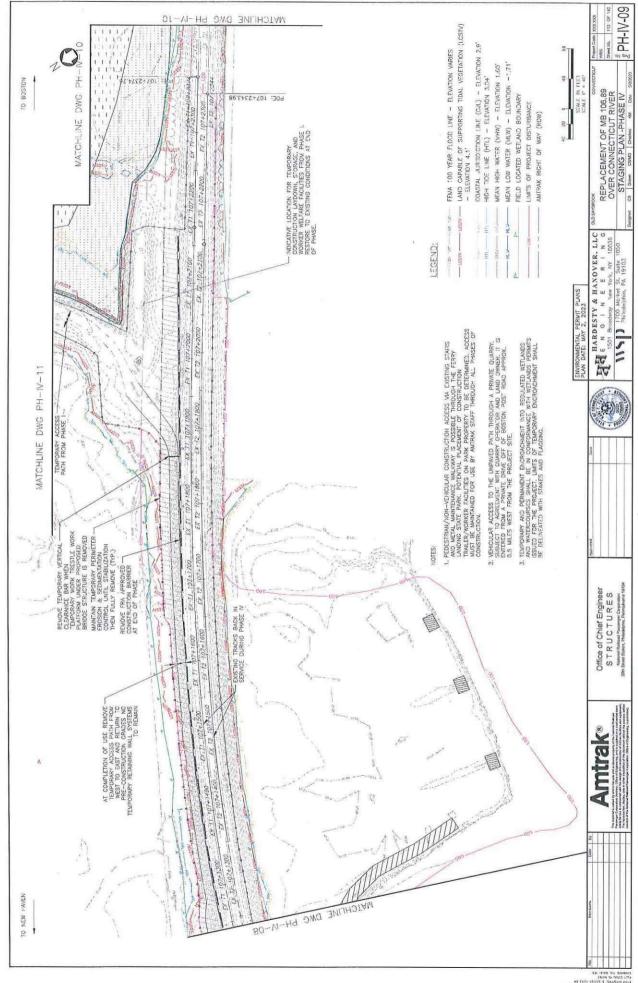
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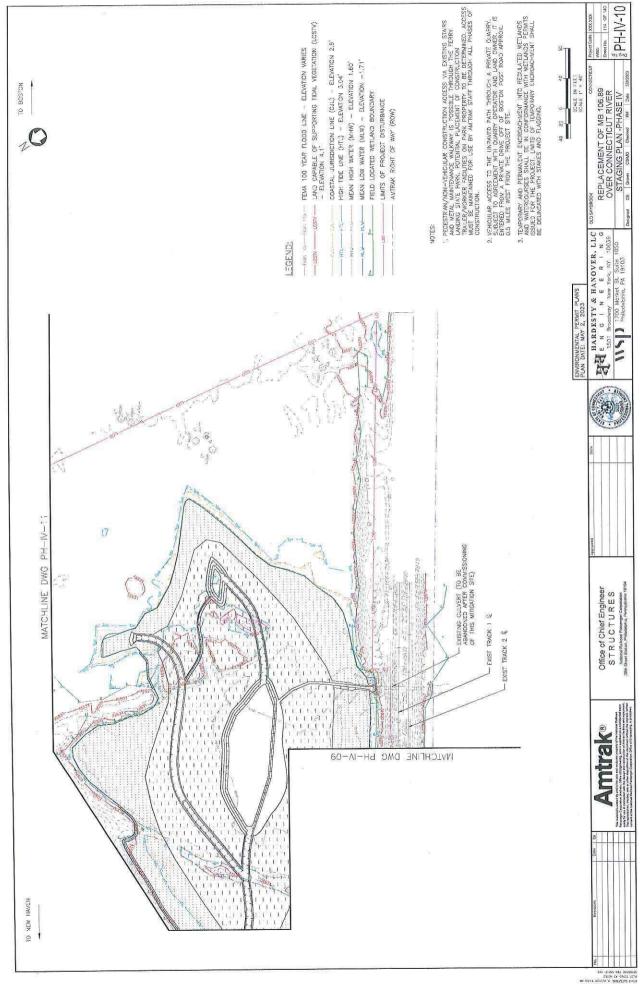


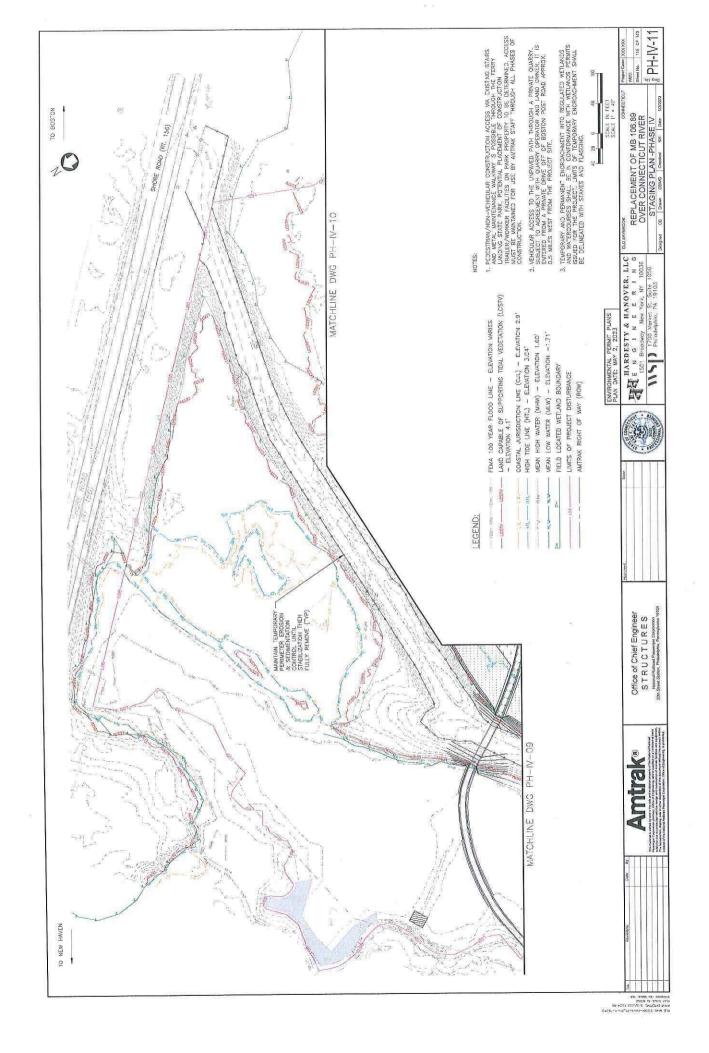


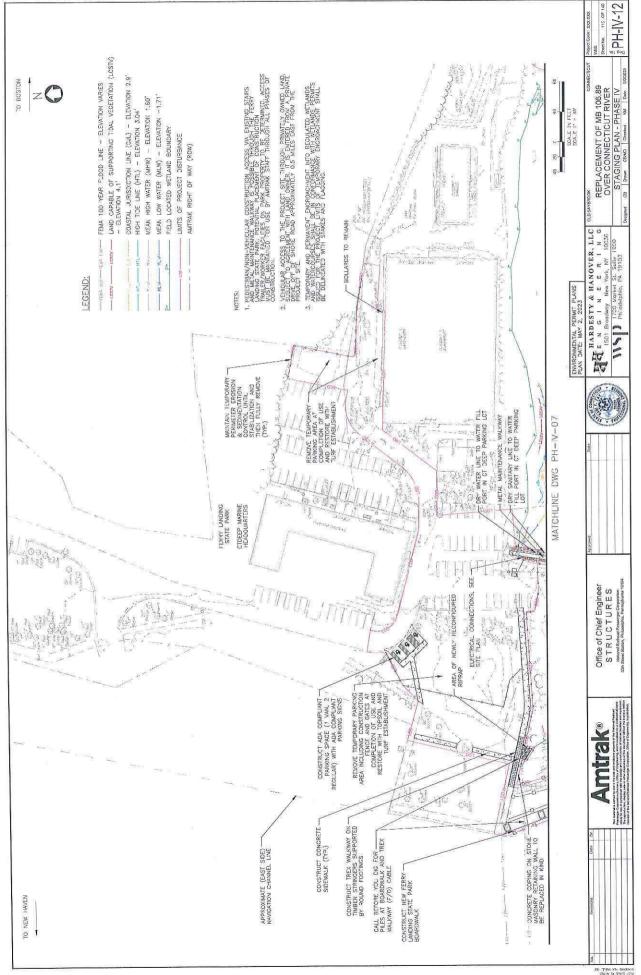


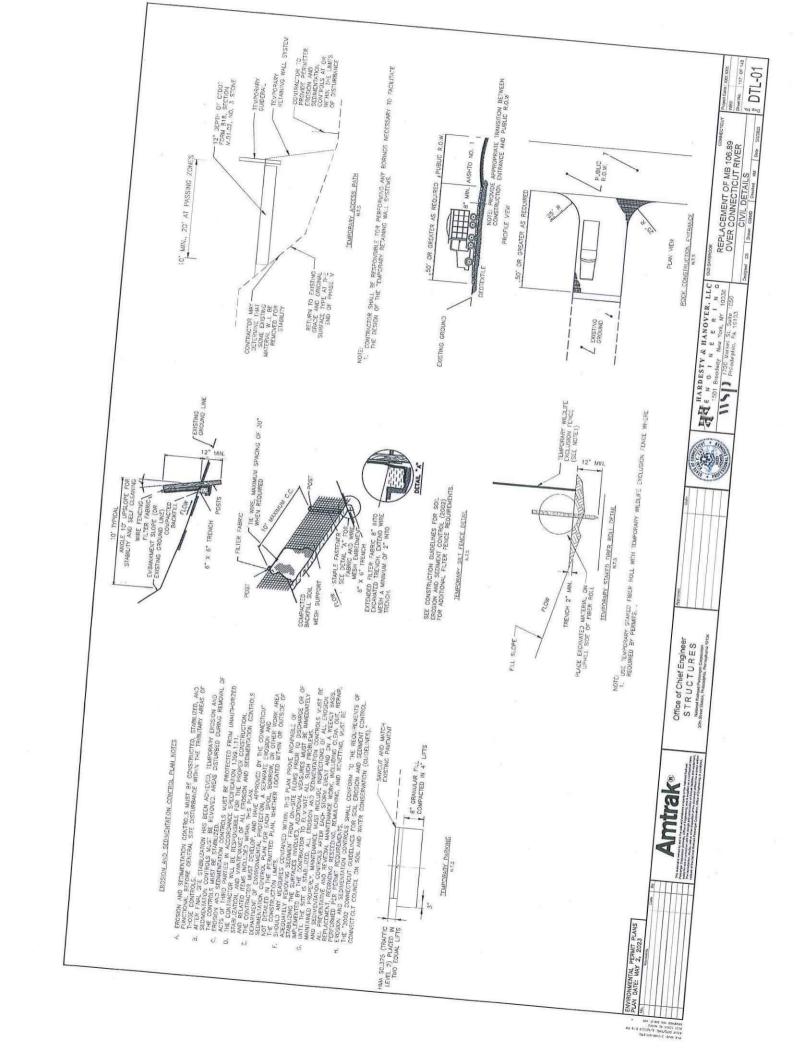


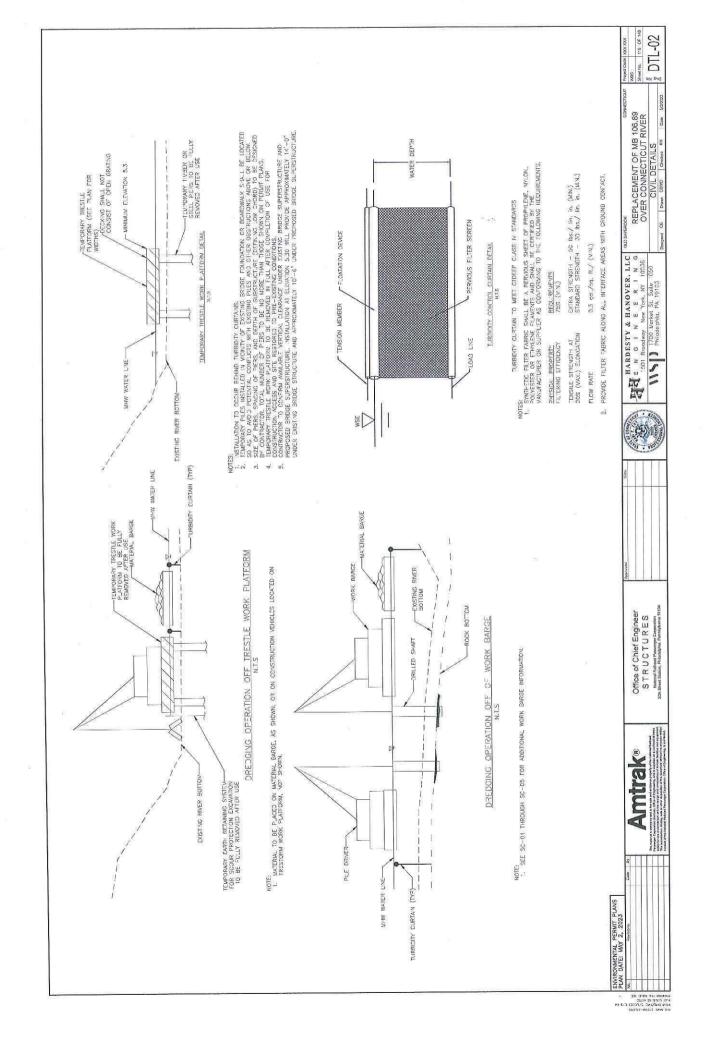


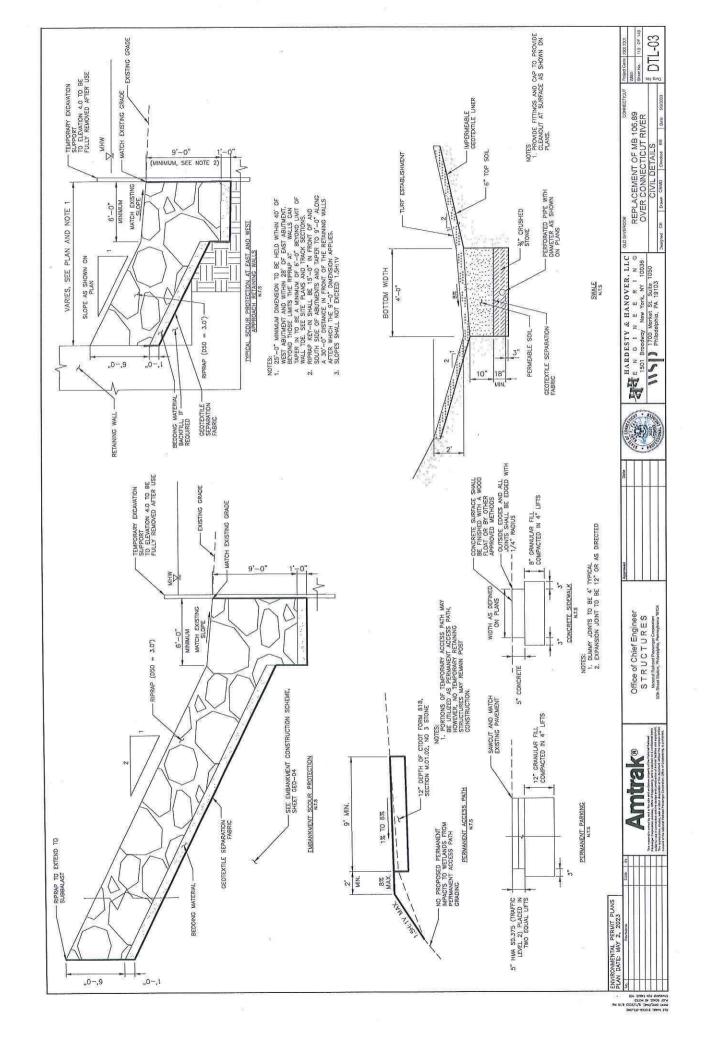


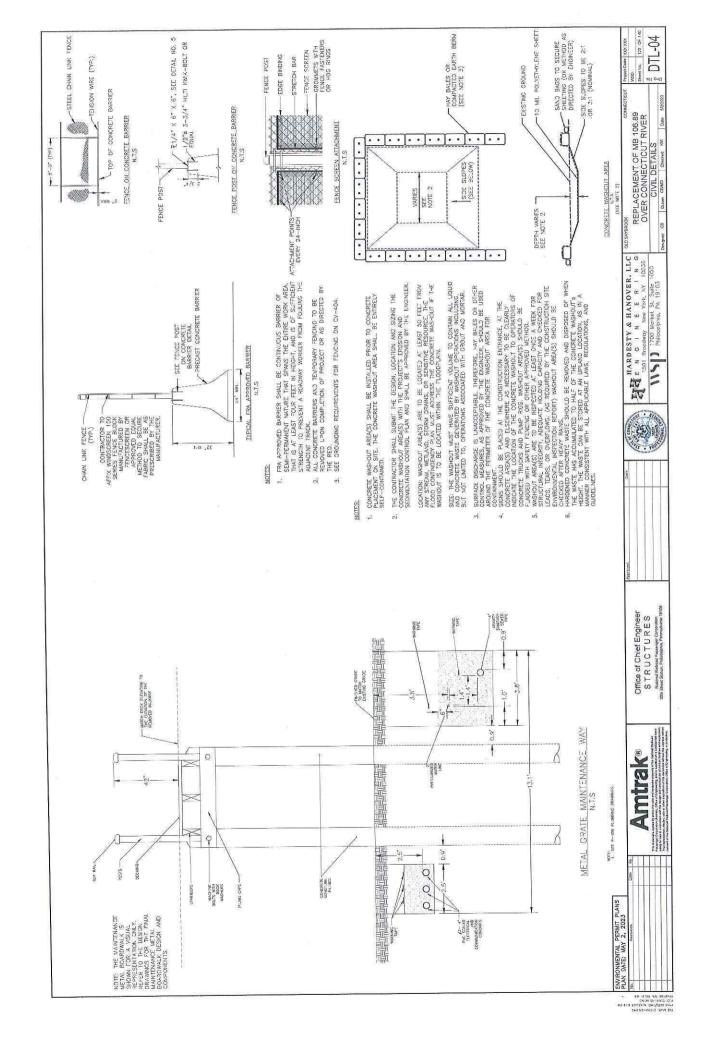


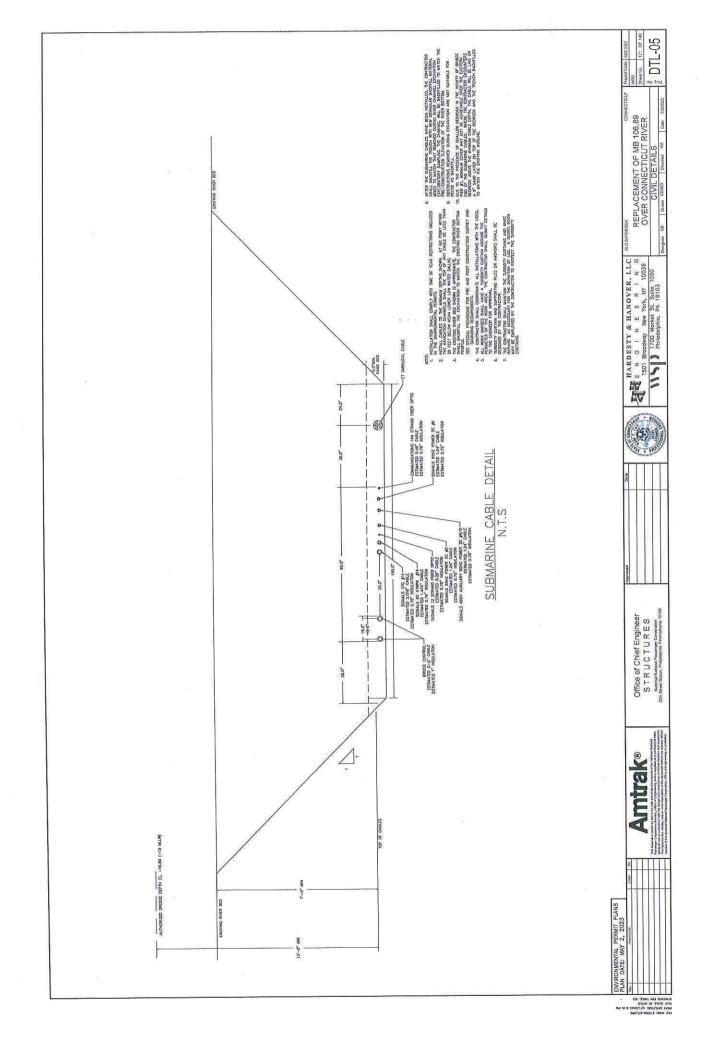


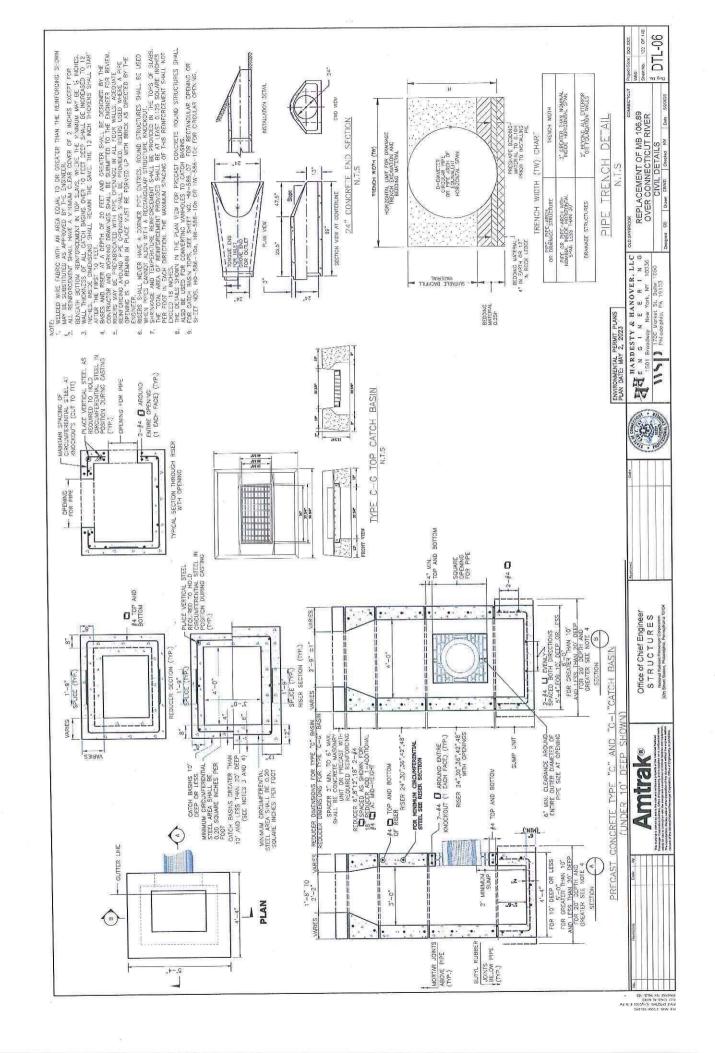


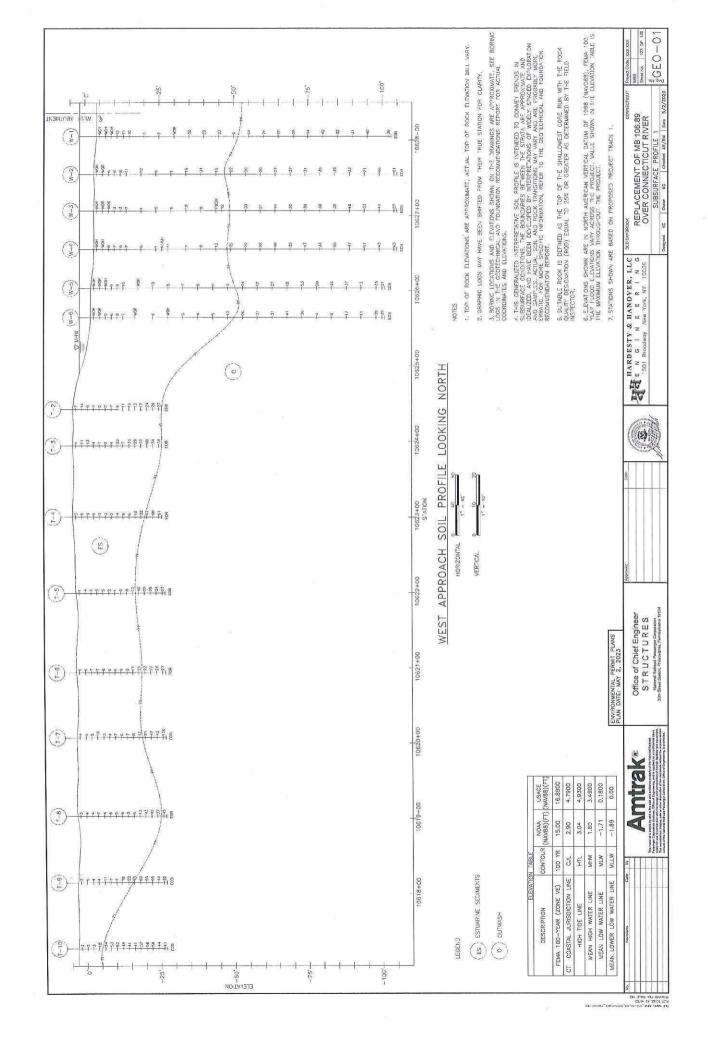


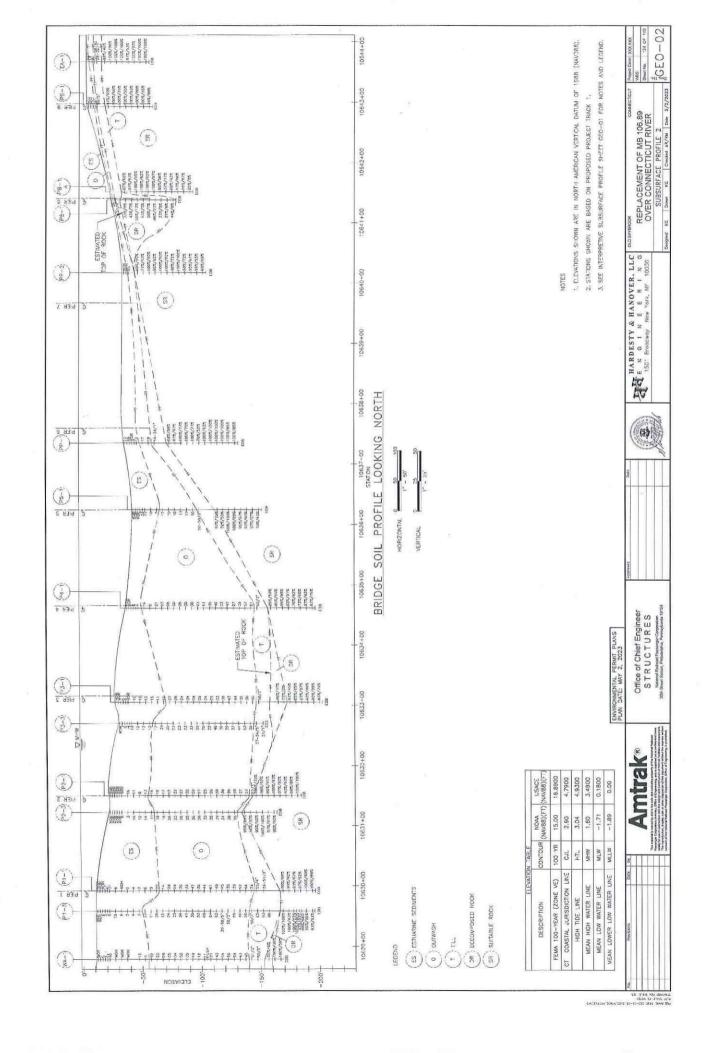


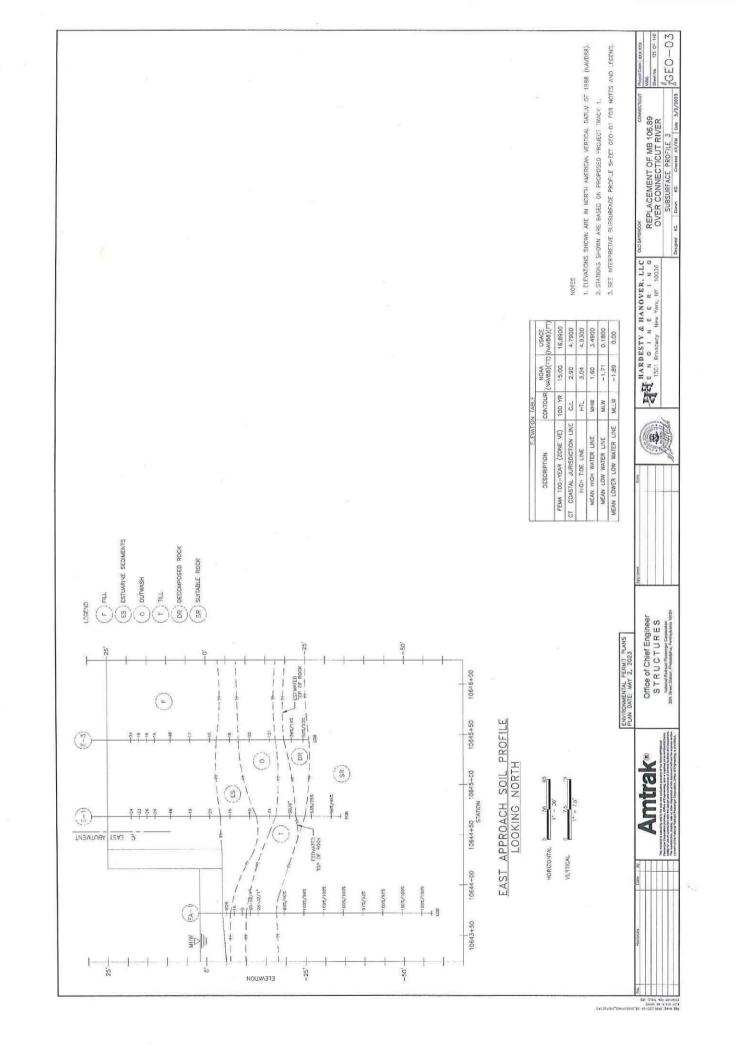


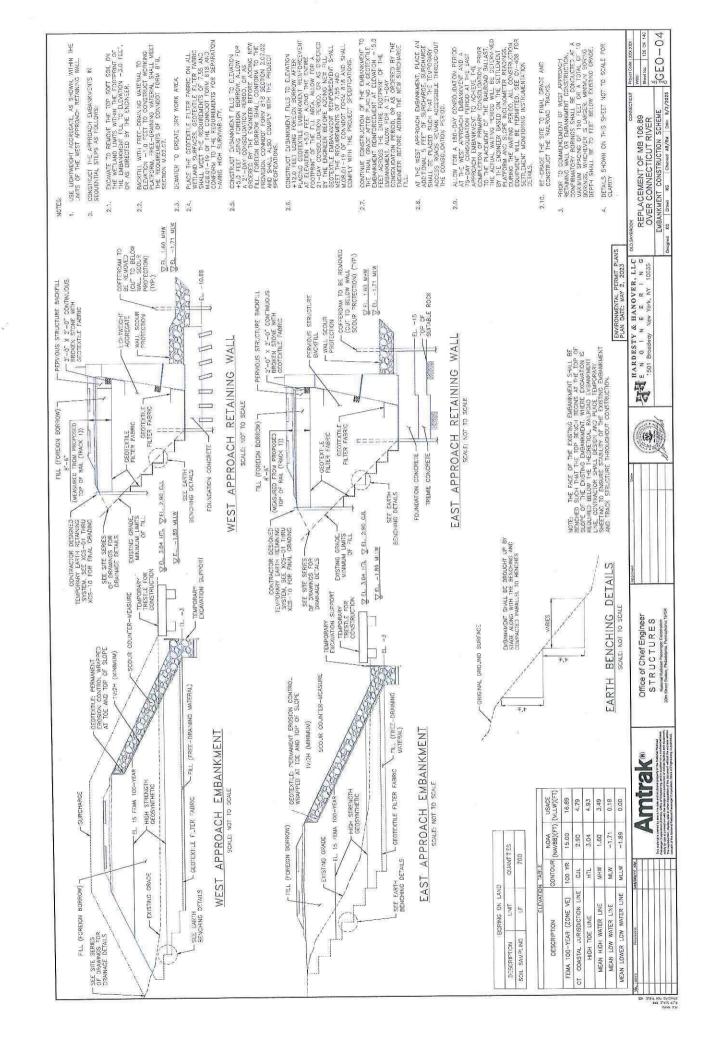


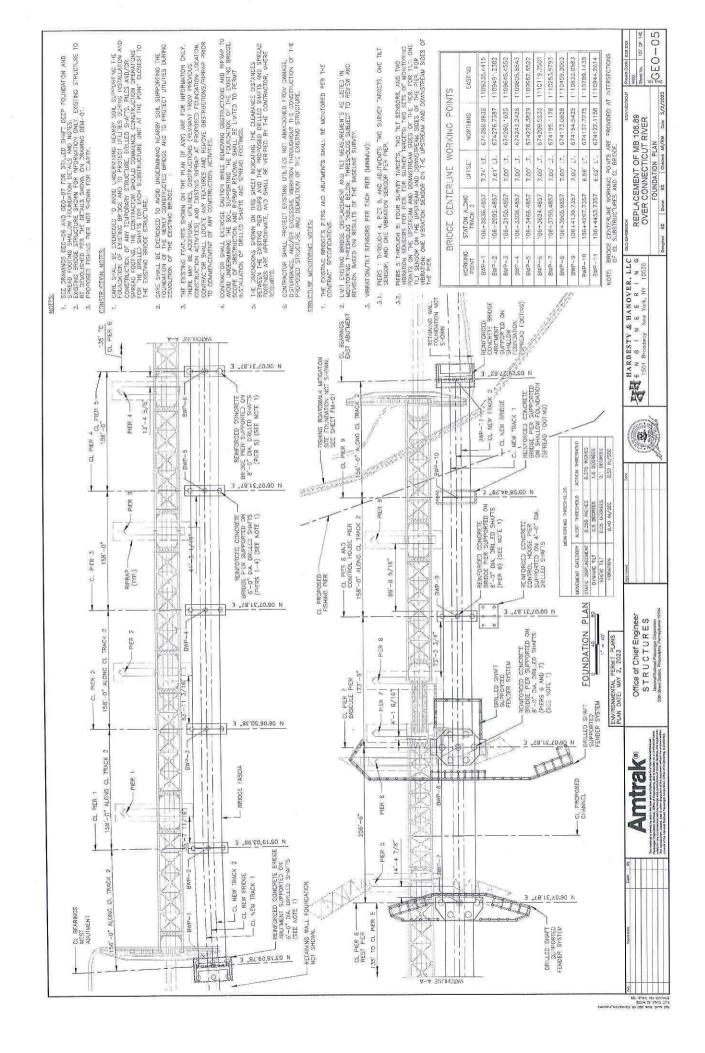


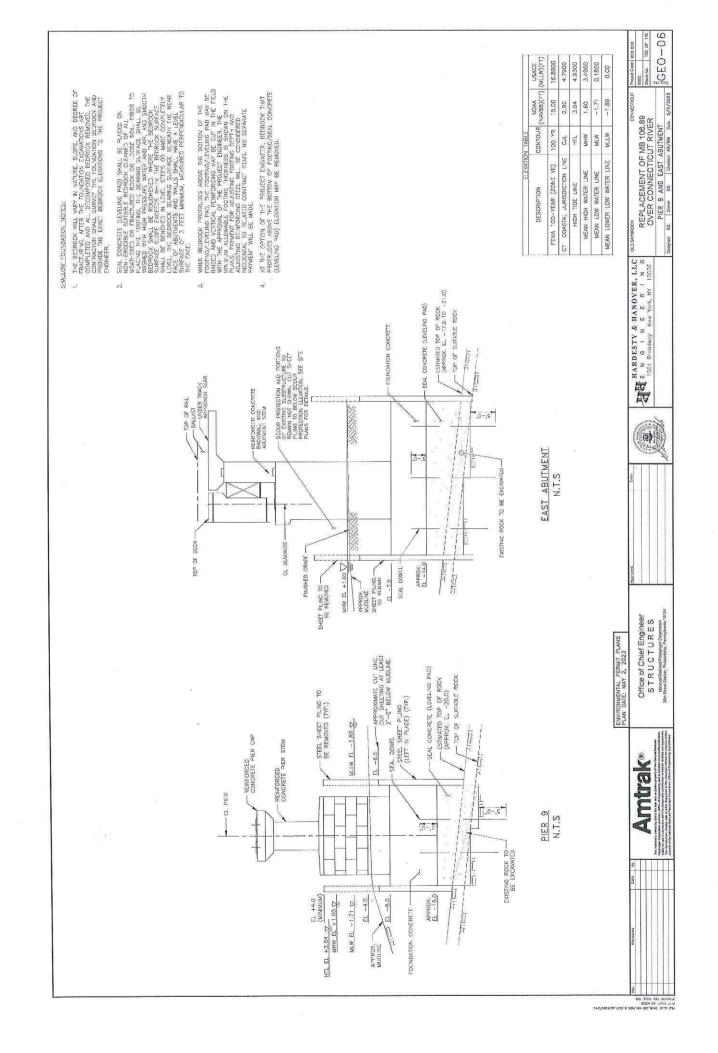


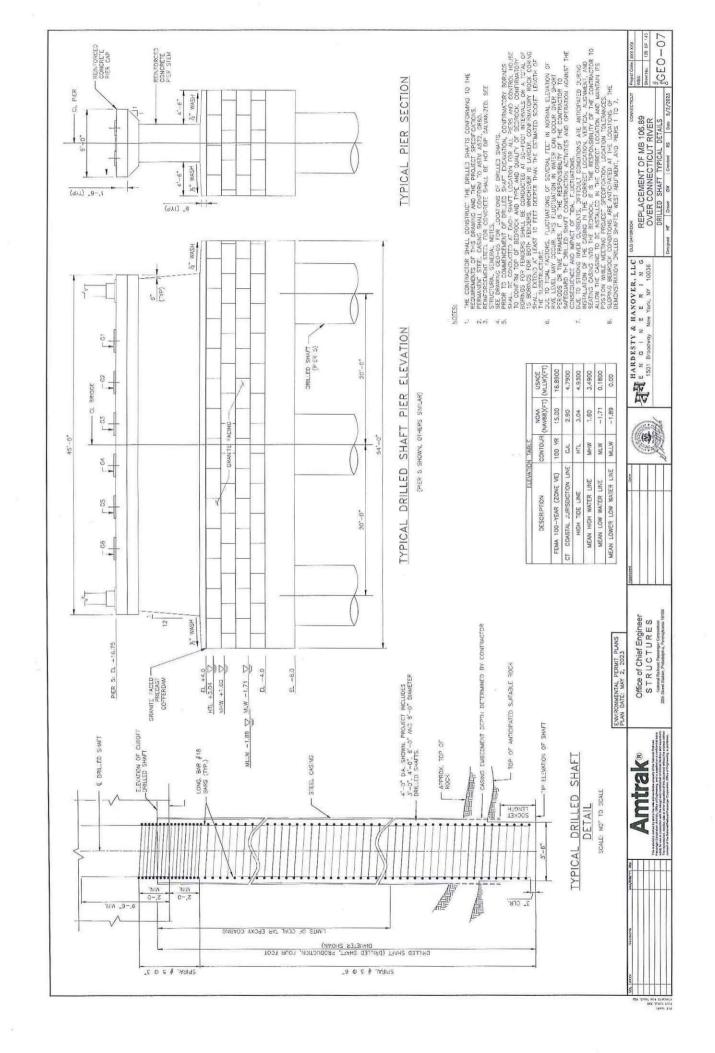


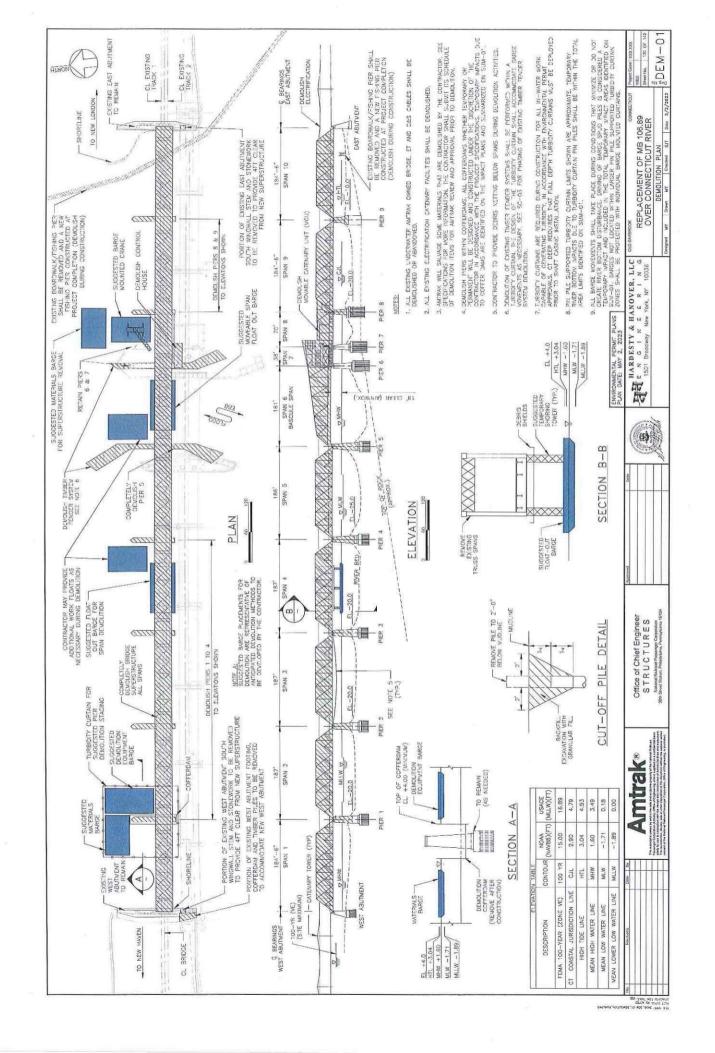


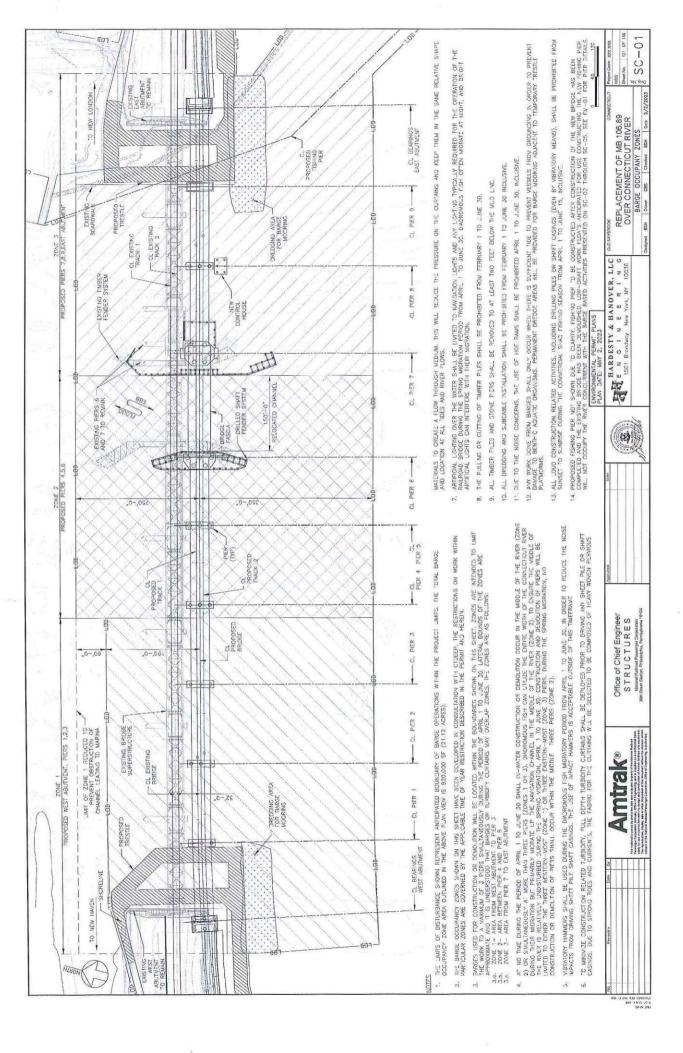


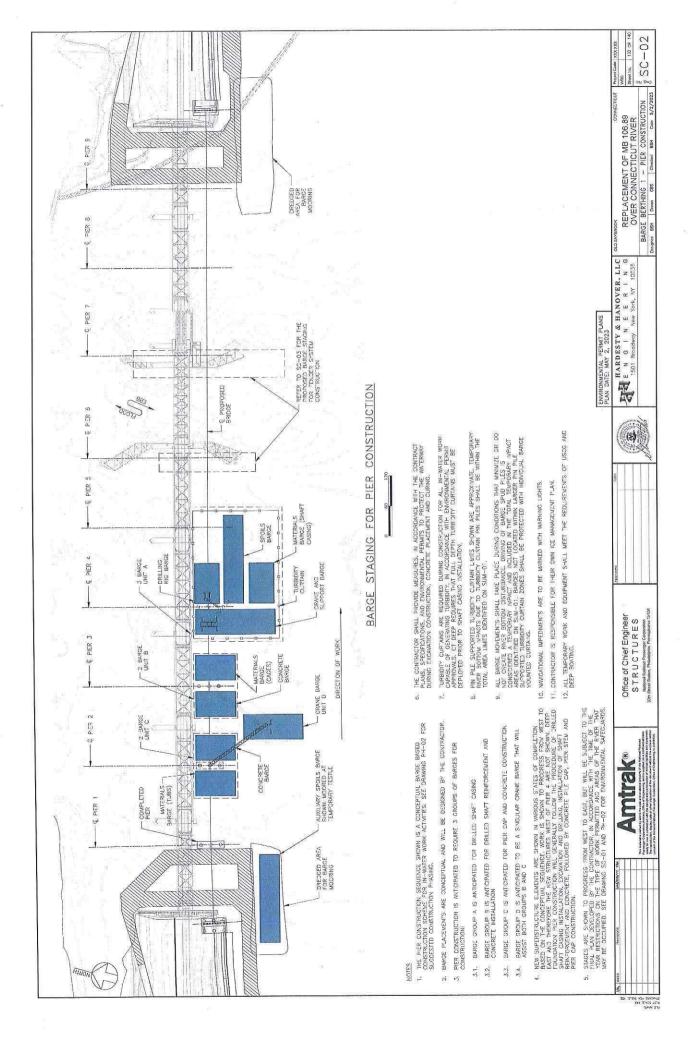


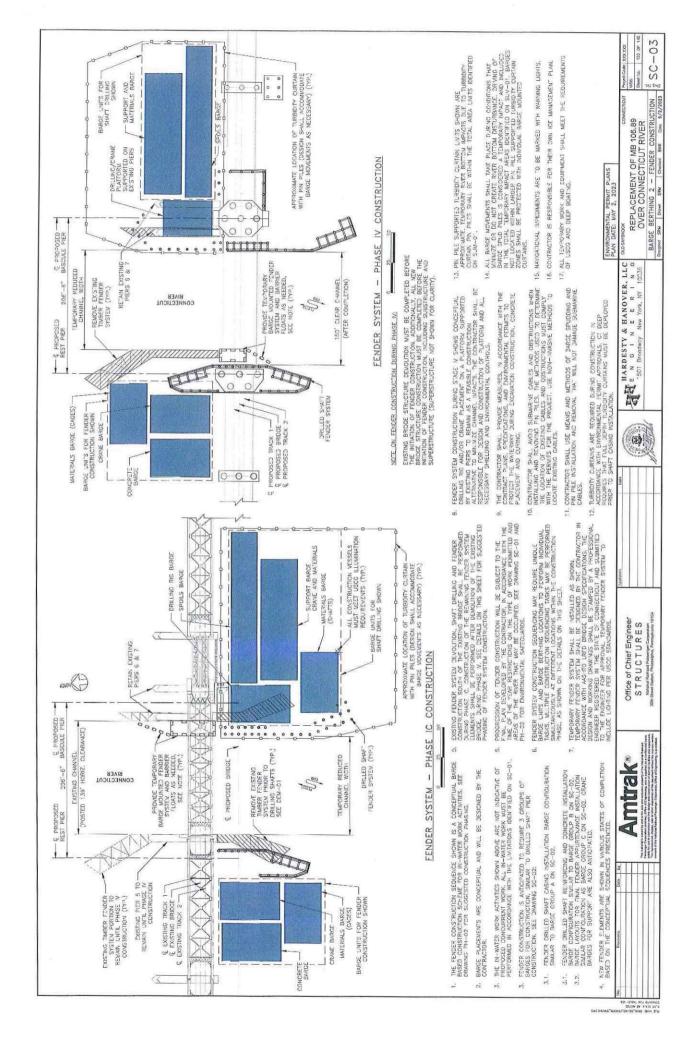


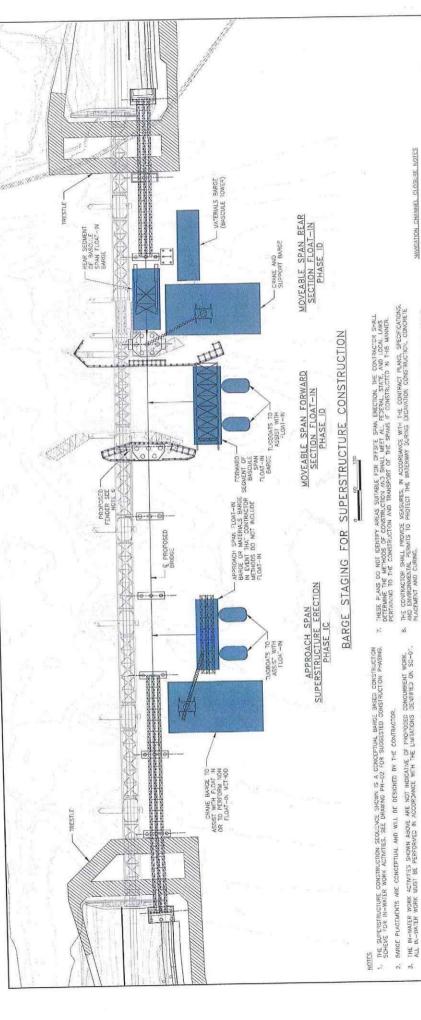












THE CONTRACTOR SHALL PROVIDE MEASURES, IN ACCORDANCE WITH THE CONTRACT PLANS, SPECFCATIONS, AND ENVIRONMENTAL PERMITS TO PROTECT THE INTERMAT DIRECT SECURITIES, CONCINCTION, oś

TURBOTY CURRAVS ARE REQUIRED DURING CONSTRUCTION IN ACCORDANCE WITH DINIRONMENTAL PERMIT APPROVALS OF DEEP REQUIRES THAT FULL DEPTH TURBOTY CURRAVE MUST BE DEPLOYED PHOR TO SHAFF OSSIVE MISTANTION.

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11. ALL BARGE WOVEMENTS SHALL THAT PLACE DURNED CONDITIONS THAT MINUSES ON TO TREATE WERN BECTIVE DISTILLERANCE. DRIVEN OF BARGE SENDE PLEES IS ONS MEDITARIAN CLINED IN THE TOTAL "TEMPORARY MINOR MEDIS IN THE TOTAL "TEMPORARY MINOR MEDIS INSTITUTION SON THE WORSEN WITH LOCATED WITH WOMINDLE BARGE WOUNTED CHARMAR." BRITCH SHALL SE PROTECTED WITH INCOMPLIAL BARGE WOUNTED CHARMAR.

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PLOST NOT THE BASCILLE SPAN FORWARD TRUSS SECTION. TEMPORARY NAVIGATION CLOSURE REQUIRED FOR THIS ACTIVITY, SEE NOTES THIS SHEET.

DELYCRY OF BASCULE PIER TRUNNICH TOWERS STEEL COMPUNENTS, BARGE BASED CRANE ERECTION OF FRUNNICH TOWERS. BARGE BASED CRAVE LIFT-IN OR BARGE FLOAT-IN OF APPROACH SPAN SUPERSTRUCTURE STEEL,

4. SUPERSTRUCTURE CONSTRUCTION BARGE BASED ACTIVITIES ARE ANTICIPATED TO INCLUDE:

4.1. DELIVERY OF APPROACH SPAN STEEL SUPERSTRUCTURE COMPONENTS.

4.2. 4.3. 4.4. 4.5. ń

12. NAVIGATIONAL IMPEDIMENTS ARE TO BE MARKED WITH WARNING LIGHTS.

14. ALL TEMPORARY WORK AND EQUIPMENT SHALL MEET THE REQUIREMENTS OF USCG AND DEEP BOATING. 13. CONTRACTOR IS RESPONSIBLE FOR THEIR OWN ICE MANAGEMENT PLAN. NEW SUPERGINACTURE ELLIBERTS ARE SHOWN IN WARIOUS STATES OF COMPLETION EMBED ON THE CONCEPTUAL SCOURAGE SHOWN IN THE PLAN VOID AGON, WHOW AGON, WHON AGON, WHON AGON, WHON AGON, SEE SEE SEE SEE SO SO BETALS, ENVIRONMENTAL PERMIT PLANS PLAN DATE: MAY 2, 2023

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PROGRESSION OF SUPERSTANCTURE CONSTRUCTION WILL BE SUBJECT TO THE FINAL PLAN DEVILOPED BY THE CONTRACTOR IN ACCREMANT WITH THE DIE OF THE TYRE RESTRICTIONS ON THE TYPE OF WORK PREMAMENT AND AREAS OF THE RIVER THAT MAY BE OCCUPED, SEE DRAWING SG-C11 AND PH-02 FOR EMPROPHENTAL SPECIARIOS.

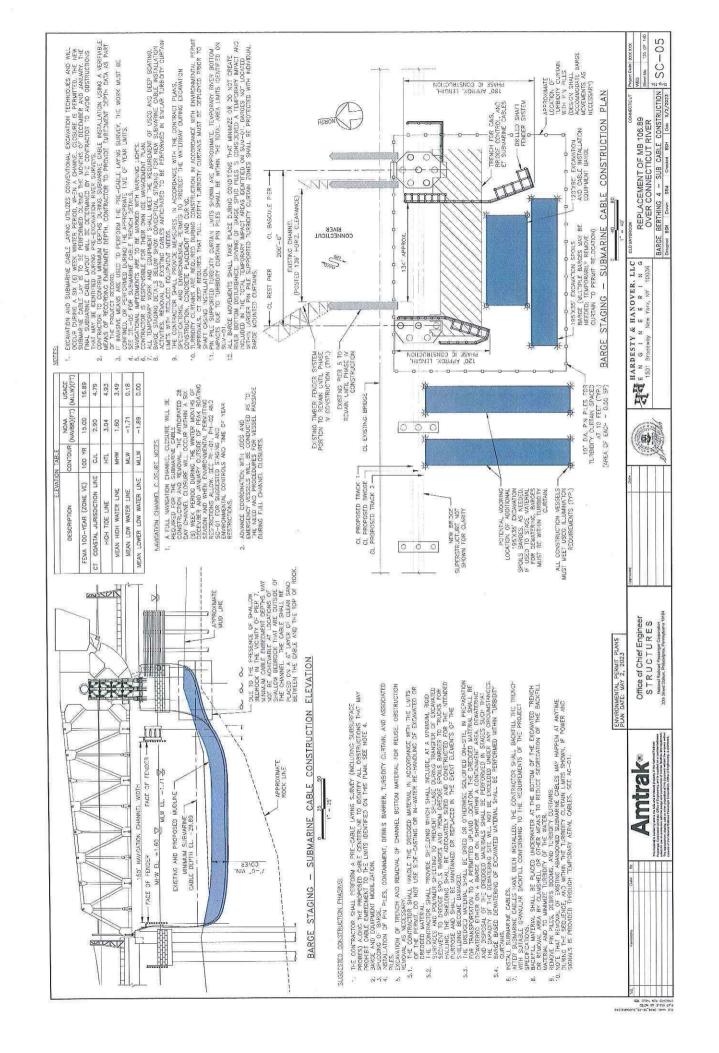
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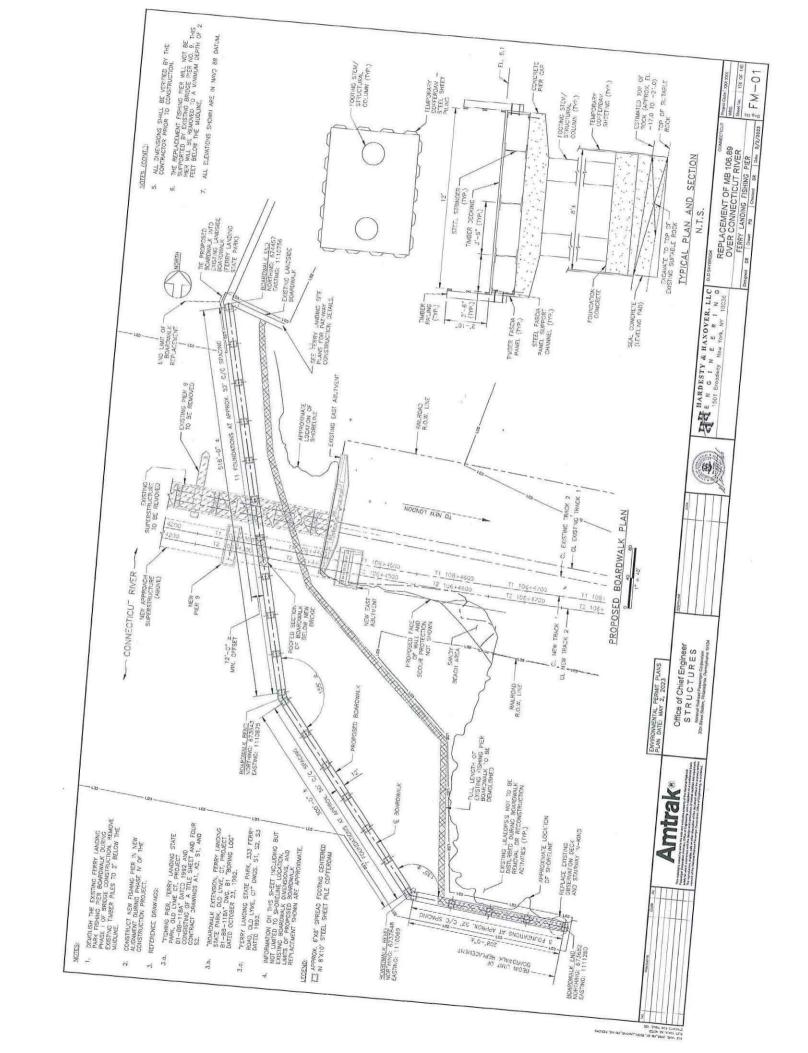
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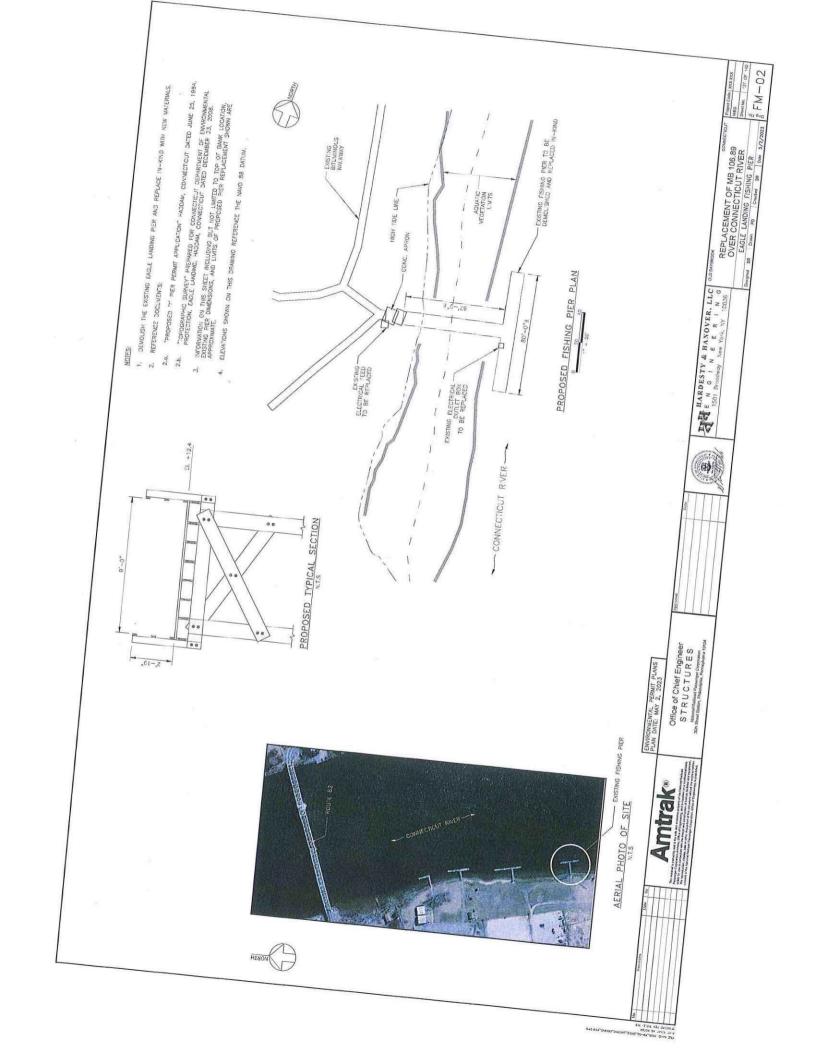
REPLACEMENT OF MB 106.89

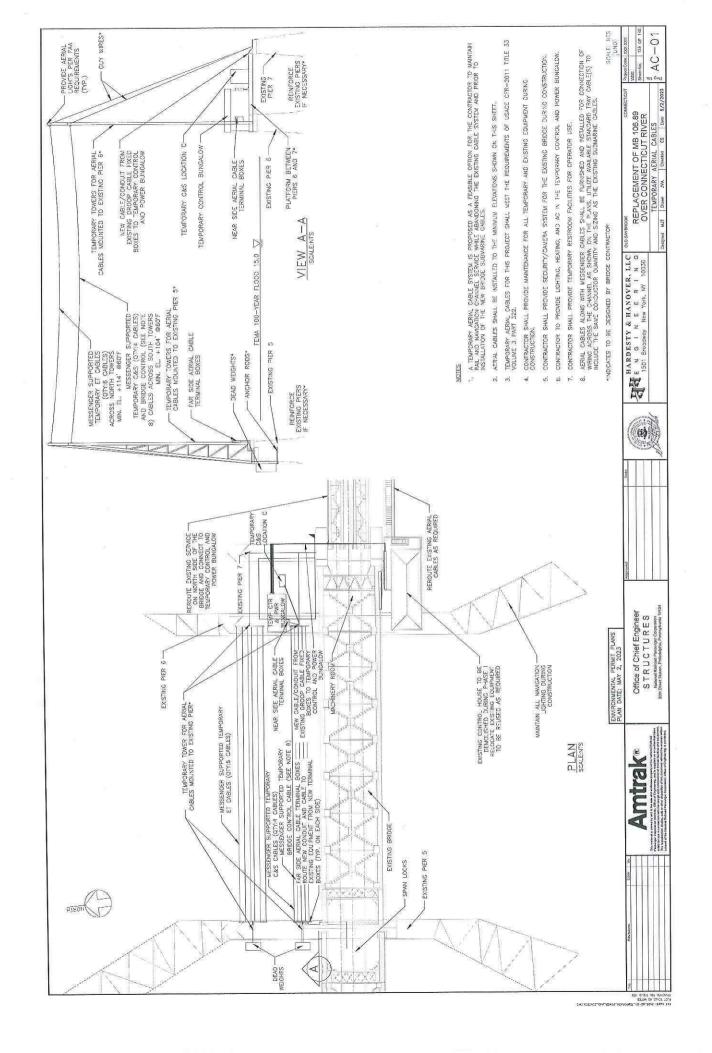
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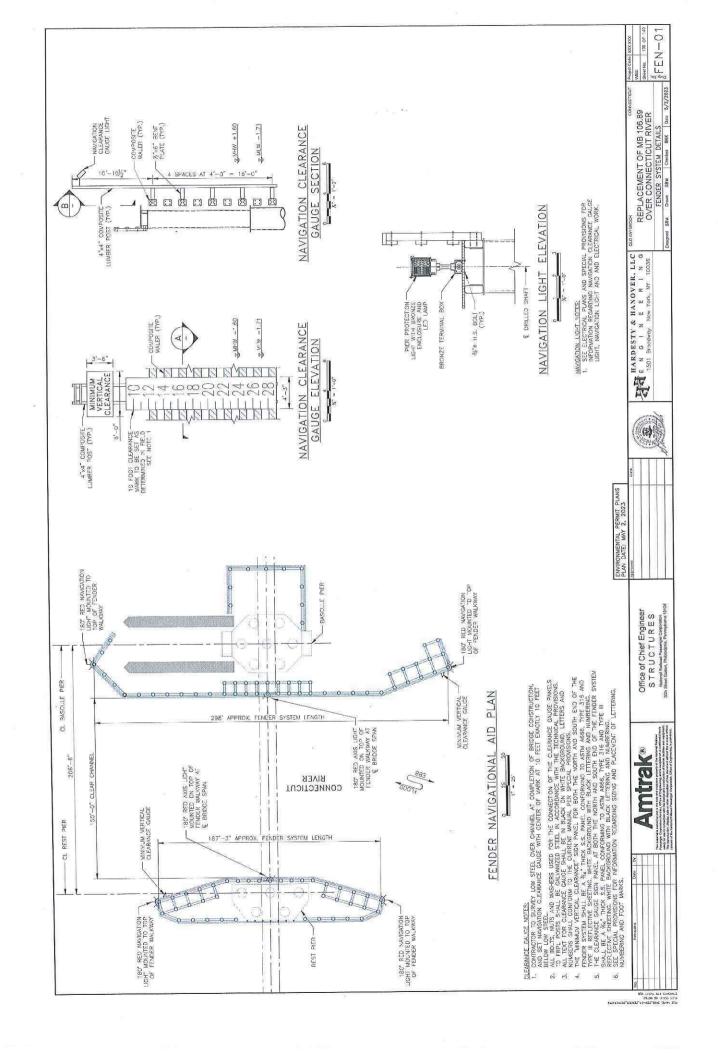
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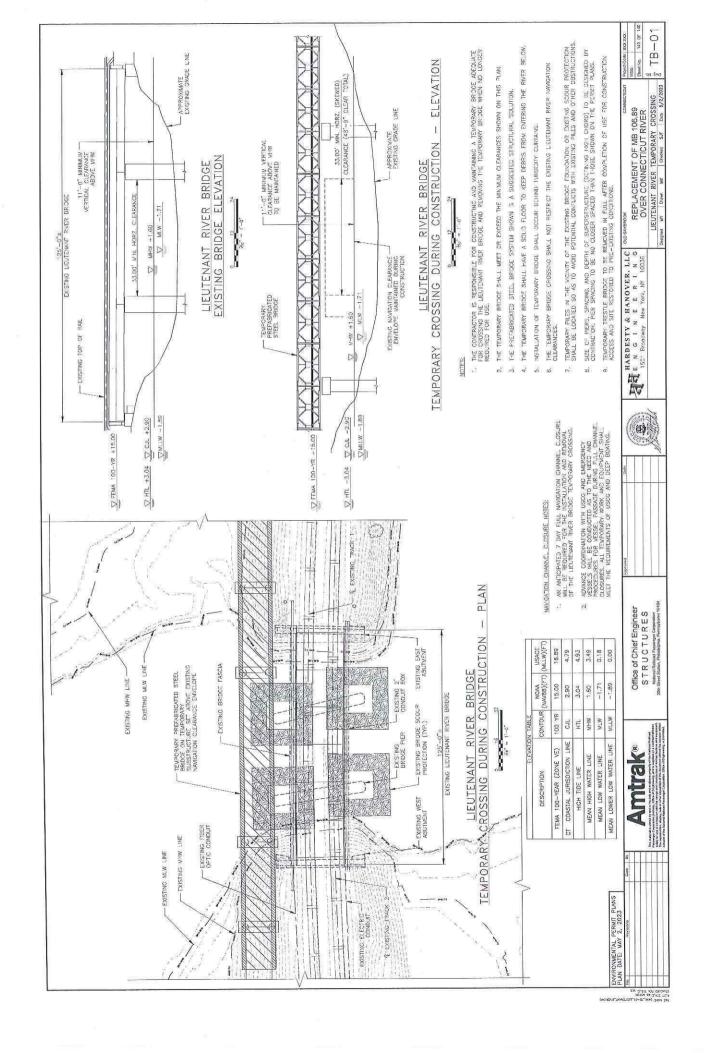
















Replacement of Amtrak Connecticut River Bridge (MP 106.89) Tidal Marsh Mitigation Design Old Lyme and Old Saybrook, CT 17 Shore Road Site





VICINITY MAP

| DRAWING NO. | TITLE   |
|-------------|---|
| 0-100       | COVER SHEET   |
| G-002       | GENERAL NOTES AND LEGEND  |
| C-103       | EXISTING CONDITIONS PLAN  |
| C-101       | PROPOSED GRADBAG PLAN   |
| C-103       | PROPOSED CONSTRUCTION ACCESS, SITE PREPARATION AND STAGMIC/LAYDOWN PLAY |
| C-103       | PLANTING PLAN   |
| C-104       | PROPOSED CULVERT GRADING PLAN   |
| C-200       | SECTIONS AND PROFILES   |
| C-300       | EROSION AND SEDIMENT CONTROL NOTES & E                                  |
|             |   |





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

> 2023.04.07 PROJECT NUMBER: 195602497



EXISTING 5" MAJOR CONTOUR EXISTING 1" MINOR CONTOUR EXISTING PROPERTY LINE

ALL DIVISITE CONSTRUCTION STAFF WEL ATTEND TRANING 3Y AN OUALIFED ENVIRONMENTAL SCIENTIST AND PECTURE A COPY OF FIRM, WILDLIFE PROTECTION PLAN PRIOR TO BEGENRING WORK ON SITE.

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4. IF EALD EAGLE NESTING ACTIVITY IS OBSERVED WITHIN ADD IT PROM CONSTRUCTION ACTIVITY ALL CONSTRUCTION MUST STOP UNTIL MESTING ACTIVITY HAS GEASED.

CONSTRUCTION WITHAN TO ALCREDS OR SIMILAR CHANNELLED ACUALIC HABITAT IS PROHIBIED PROM NOVEMBER 1-MARCH 31 TO PROTECT OVER-WINTERING STATE-LSTED TURTLES.

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21. CONSTRUCTION EQUIPMENT CANNOT BE OFBYATED ON THE MARSH SURFACE OF IN CHIEF RECEIVED THE SURFACE CANNOT THE THE A APPROVED IN PROJECT PERMON, CONSTRUCTION EQUIPMENT IN A APPROVED TO OFF PRIMON OF THE MARSH SURFACE CANNOT BE OFFRETED WHEN HE MARSH SURFACE BE TRAIN PAIRSANTED.

19. DUBNG ALL NOH-MORE PRINCES EXCEEDING A CURATION OF 24 HOURS, CONTRACTIONS SOUTHWEST SHALL BE EXCHORATED AS SPECIAL NI PROJECT FRAME.

23. ALL TSAP CARN'S AND PERANASHIT MATTERIAS FOR CONSTRUCTION SHALL BE CLEAN AND FREE OF BERRE.

24, CONTRACTOR SHALL THOROUGHLY WASH AND CLEAN EGUPHARM PRIOR TO MOBILIANIONTO THE PROJECT SITE TO AVOID INTRODUCING HONASIVE PLANT PROPAGULES TO THE PROJECT SITE.

26. A COMPLETE SPLL KIT SHALL BE MANDANNED AT THE PROJECT AREA. ALL CONSTRUCTION EQUIPMENT SHALL HAVE A MOUNTED THE EXTINGUISHE 25. COMBACTOR'S EQUIPMENT SHALL BESOUND, CLEAN, AND LEAK FREE PRICE TO MOBILIBING TO THE PROJECT SITE AND SHALL BE MAINTAINED LEAK-AFFEE CONDITION WHILE ON SITE.

27. PERVETER EROSION AND SEDMENT CONTROLS SHALL BE INSTALLED PRIOR TO COMMENCING FURTHER WORK, AND SHALL BE MAINTAINED THROUGHOUT THE DURATION OF WORK.

29. ALL MATERIAL BEMOVED FROM THE PROJECTISITE SHALL BE DEPOSED OF IN COMPURANCE WITH ALL APPLICABLE RECURATIONS. 28. ON-STERRELINGSHALL OCCUR ONLY AS ALLOWED BY PROJECT PERMITS. A DRIP PAN DR ASSORBET PAOS SHALL BE USED DURING ALL DEPRISING OPERATIONS.

WORKSHALL COMPLY WITH ALL APPLICABLE ENVIRON REGULATIONS AND PROJECT PERMIT CONDITIONS.

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AMTRAK Tell Tell

Replacement of Amtrak Connecticut River Bridge (MB 106.89) Client/Project Amfrak, Hardesty & Hanover 17 Shore Road Millgation Site

Project No. 195602497 Revision Sheet 0 2 of 9

PLANS FOR PERMITTING APRIL 2023

Stantec

YTUTU CASHEAD ONTE

EXISTING DRAINAGE SWALE

RESTORED CONSTRUCTION ACCESS ROAD AREAS SEDIMENT CONTROL BARRIER CONSTRUCTION ACCESS RDL 11

TEMPORARY STAKED TURBIDITY PHASED FLOW DIVERSION SEDIMENT CONTROL BARRIER TEMPORARY COFFER DAM

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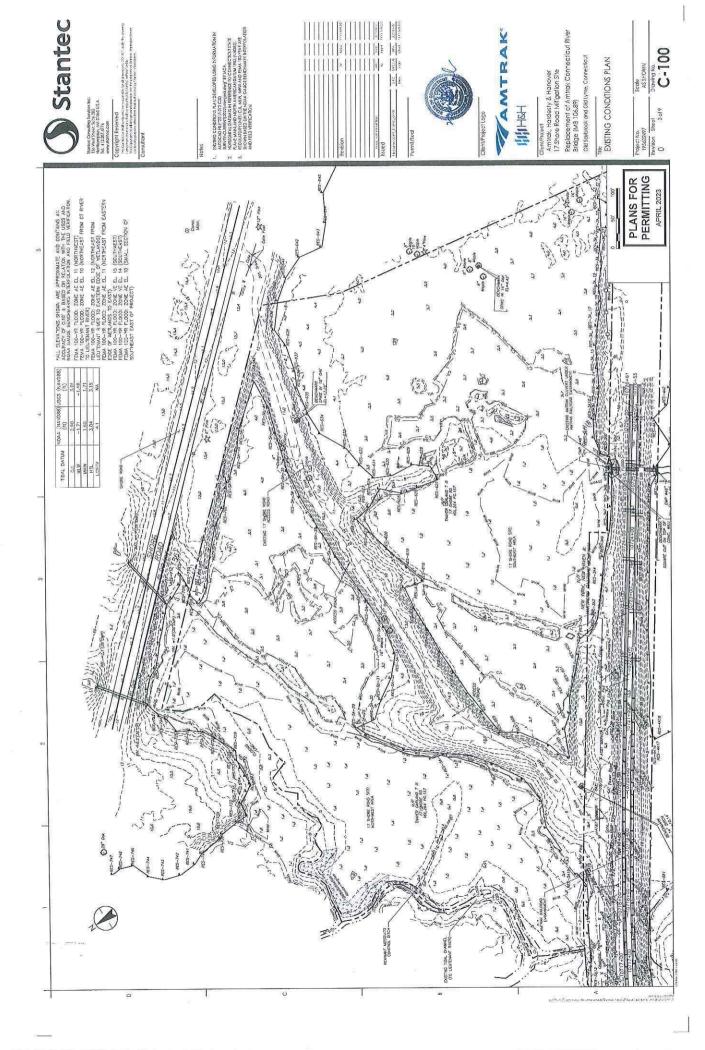
INFORMATION DEPICTED ON THESE TLANS DOES NOT CONSTITUTE AN ACRESSIVENT OF ACCESS OF WORK OA PROPERTIES DEPICTED OAT HESE PLANS, ACCESS PREMISSION IS THE RESPONSAILTY OF THE PROJECT OWNER, AND AUST SE COARRENGED BY THE CONTRACTOR.

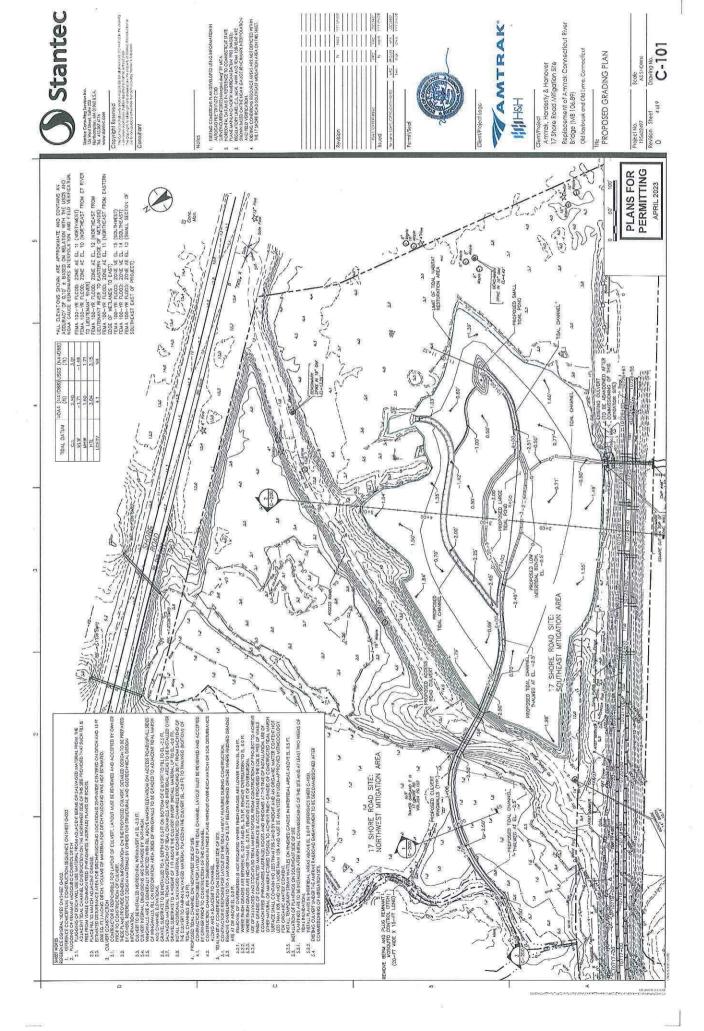
HORTH ARROW, BEARNES, AND COORDINATES ARE BASED UPON TH HORTH AMERICAN DATUM OF 1983 (NAD. 1983) GOANECTICUT STATE PLANE COORDINATE SYSTEM FEET UNITS. EXISTING CONTOURS ARE COMPUTER-GENERATED INTERPOLATIONS. EDIED TO GENERALLY CONFORM TO RELD GENERATIONS.

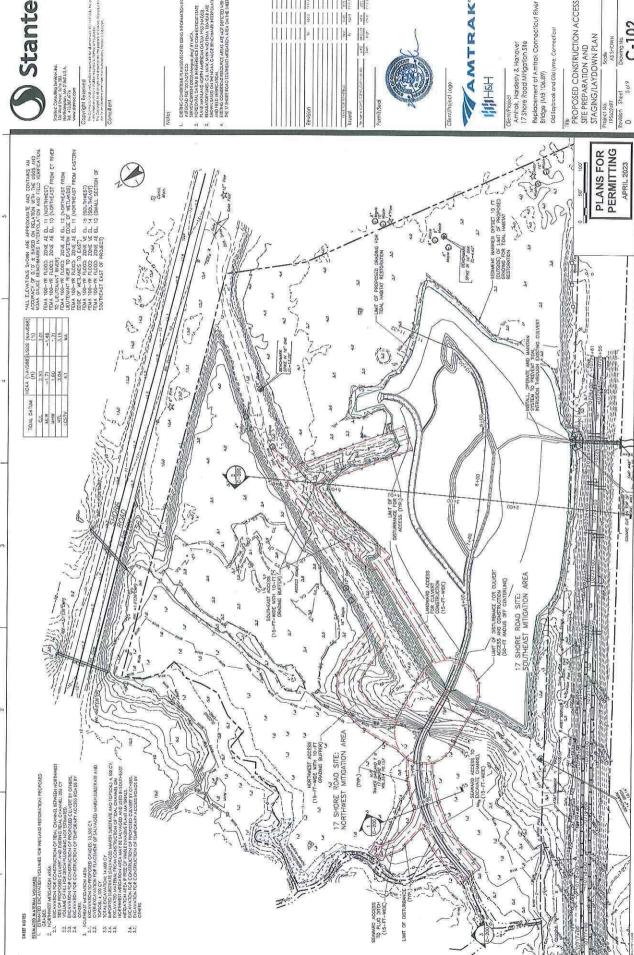
CONTRACTOR SHALL VERIFY CREECAL BLEVATIONS AND GRADES IN THE PELD PRIOR TO CONSTRUCTION. IEC ACCEPIS NO PESPONSBUITY FOR THE ACCURACY OF MAPS. DATA THAT HAVE BEEN SUPPLIED BY OTHERS.

GENERAL NOTES AND LEGEND Old Saybrook and Old Lyme, Connecticut

G-002









NAMTRAK"

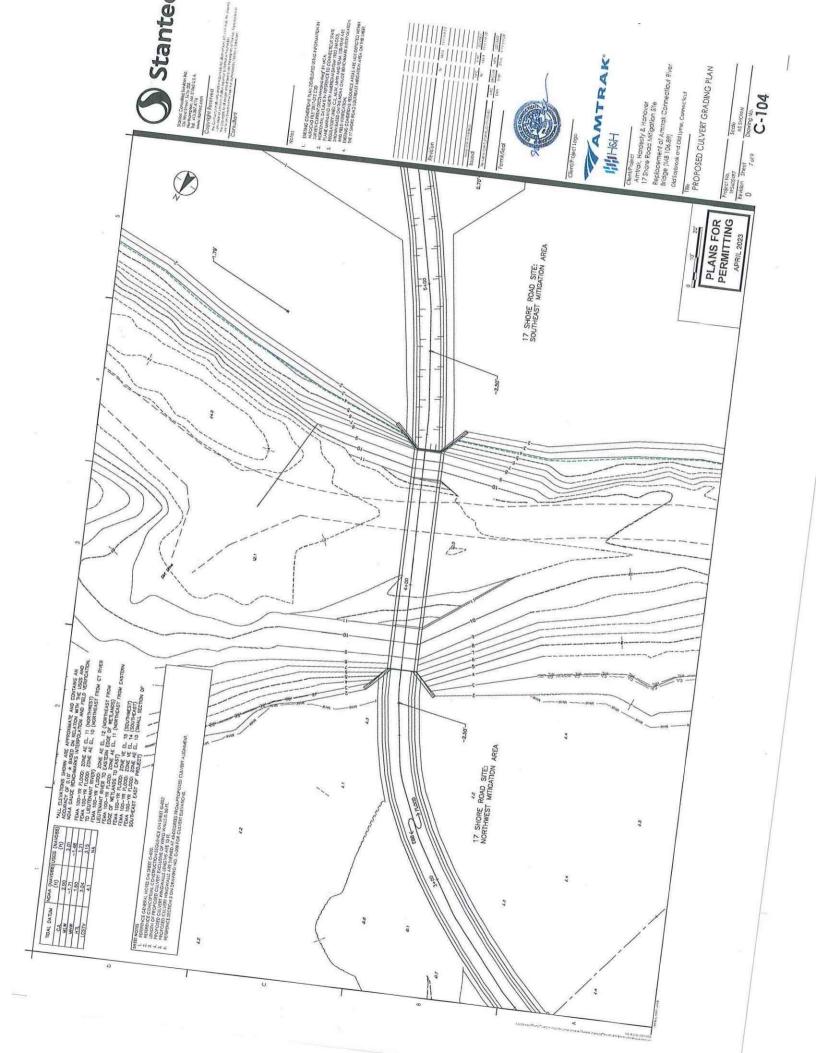
Client/Project Amtrak, Hardesty & Hanover 17 Shore Road Mitigation Site

Old Saybrook and Old Lyme, Connec

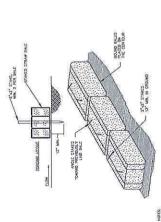
THE PROPOSED CONSTRUCTION ACCESS, SITE PREPARATION AND STAGING/LAYDOWN PLAN

Stantec Stantec MAMTRAK Replacement of Amtrak Connecticut River Bridge (MB.106.89) Client/Poject Amfrak, Hardesty & Hanover 17 Share Road Miligation Ste Old Saybrook and Old Lyme, Carm Title PLANTING PLAN 下落工 6109 Client/Project Logo PLANS FOR PERMITTING AAL ELEVATONS SHOWN ARE APPROXIMATE AND CONTAINS AN ACCURACY OF 0.0 ± BASED ON RELATION WITH THE USGS AND NOAA GAUGE EENCHMARKS INTERPOLATION AND FELD VERIFICATION. **APRIL 2023** UMIT OF TIDAL HABITAT RESTORATION AREA SPINE IN 10" OW TIDAL CHANNEL C. COUMISSIONING OF THIS COUNTRY OF THIS COUNT E. MUTAG JAGE PROPOSED LARGE TIDAL POND 17 SHORE ROAD SITE: SOUTHEAST MITIGATION AREA 35 Number 51,283 ANN GOMENT AGE TO GOUGH ARE DO REPUBLISHED HEACH FOLE THE NUMBERS PRESIDED IN TABLE BLOWN KSHAMES FRANKT TAGE STOCK MATERIA.

1. WORDEN THE WAS A ADMINISTRATION OF STOCK THE TOWN OF TOWN OF THE TOWN 16,221 9,733 16,221 6,410 6,410 51.097 1,258 ROPOSED TIDAL CHANNEL, THALWEG AT EL. -2.5" 80% 55 100% 50 10% 35% 25% 25% Spacing 24"OC 18'OC 18"OC 18 OC Z'plug Z'plug 1. TOTAL RECORD TO PROCESSOUS SOUTHERS INDICATED WEST MEDOW ELLOR IS HALVES OF IT, ARREA AND THE SOUTHERS HALVES OF IT, ARREA AND THE SOUTHERS HALVEST WENTER ELLOR MEDICE, TASKING THE SOUTHERS HAVE AND THE SOUTHERS HAVE 2" plug Enla Z Z plug T plog 2" plug Z"plug Size\* 17 SHORE ROAD SITE: NORTHWEST MITIGATION AREA Elevation Zone (feet, NAVD88) 0.0'-1.0' 20-4.1 0.0-1.0 1.0-20 0.0-1.0 1.0'-2.0' 10-20 1.0-2.0 Species Low Matsh Community (0.0' to 1.0') High Marsh Community (1.0° to 2.0°) Marsh Edge Community [20" to 4.1"] REMOVE BERN AND PLUS REWINNI MOSQUITO CONTROL DITCH (20-FT WIDE X 15-FT LONG) Legend



Stantec Stantec AMTRAK SECTIONS AND PROFILES Replacement of Amtrak Con Bridge (IAB 106.89) T TEL PLANS FOR PERMITTING ELEVATION (FT, NAVD88) ELEVATION (FT, NAVD88) PROFILE NAME: ALIGNMENT - 17SHRD-WE-1 - (5)
VERTICAL EXACERATION: 10:1 STATION (FT) SECTION 3 - EXISTING AND PROPOSED TERRAIN - TIDAL CHANNEL - NORTH (e-10) HOREGORIAL SOLLE 1"-59" / VERTICAL SOLLE 1"-55" ELEVATION (FT, NAVD88) SECTION 1 — EXISTING AND PROPOSED TERRAIN — EAST HORIZONTAL SCALE 1"—SO' / VERIDAL SCALE 1"—S' ELEVATION (FT, NAVD88) ELEVATION (FT, NAVD88) ELEVATION (FT, NAVD88)



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 TO SHI CHERT FRANCISCHEL, BALES SHALL HE FACING ACROS PER SLOPE CONTRAST FOR WANNET FORDING. TOTALISMS.

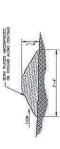
- To program the plants are not an ILLDE STORTS with the plants are stored to the plants are stored. The plants are stored to the plants are stored
  - 2. ACCAULATED SERVENT SHALL BE REMOND WITH STORAGE HESSY WE RETURNED TO 9 WOHEN. REMOND SHALLES FOR THE PERSONAL OF A NO KAN HE PERMONDING SHOULDED.

STAKED EROSION CONTROL BARRIER: STRAW BALE VOT TO SCALE



- 1. FDGC SHALL DOTNO 24" HICH (MANAUM) ABONG EROUND.
  2. EXTEND IN TRY FASIG A MINIMUM OF 6" BITD TREACH AND BACKFILL TREACH.
- 3. GLT FENCE WATERAL SHALL BE ATTACHED TO THE SUPPORT STRKES WITH A MINIMUM OF SIX 1" WIDE BY 1" LONG CALMMIZED STAPLES.

### STAKED EROSION CONTROL BARRIER: SILT FENCE NOT TO SCALE

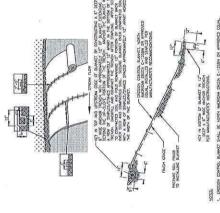


- 1) THEN THE WASHER AND STAFF CHRISTON TO MAKE THOSE STREET,

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  2) MICH WITH THE WASHER AND STAFF STAFF

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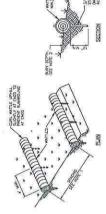


- NOTE:

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  2. LIPOSODO ROPPOR, BLANKET SALL DE, CORTH AGRICUA OFFICIAL DESCRIPTION DE CONCENSIONED DE CONCENSIONED
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- EROSION CONTROL BLANKET NOT TO SCALE







### \*\* MADLE SPACHO; 21 SLOPES = 10 TELT ACART 22 SLOPES = 30 TELT ACART 31 SLOPES = 40 TELT ACART 41 SLOPES = 40 TELT ACART

- 2. NESAL WATE, INTERNOL BIOL 2.10.3 WORLS OUTS. COMPACT SO, DOWN BOOKEN TO THE SOLUTION OF THE SOLUTION OF THE SOLUTION OF THE SOLUTION OF THE SOUTON.

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- 6, FOR SLOPE OREATER THAN SHI WATLE SHALL BE MIN, 20 INCHES IN DAMETER. SWALLER-ACHIDE SHALM LEVEL OF PROTECTION.

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



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  2. NSTALL WATLES ALDRO CONTOUR.
  3. NSTALL WATLES ALDRO CONTOUR.
  4. NSTALL WATLES DID TO DUD, DISURE THAT SHOS TORITY ASAS,

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

- WATLES MUST CONSIST OF BIODECRADABLE FABRIC OR MESH AND NOT INCLUDE PLASTIC OR MONDELAMENT NEITING TO REDUCE POTENTIAL WILDLIFE ENTANGLEMENT.

Stantec

- 1. THIS PLAN IS TO BE USED AS A OUDCINE ONLY. ADDITIONAL DISSIDENT ON STRUCKEN CHARACTER, CHARACTER, AND THE DESTRUCTION OF STRUCKEN CHARACTER, AND THE DESTRUCTION OF THE DESTRUCTION O
- 4. THE CONTRACTOR SHALL STORE ON SITE ALL MATERIALS NECESSARY TO MAKE SHAPIST ON LL ESC MASCARES. REPURSA NO MATERIALS SECONDENSIS OF SECONDENSIS SHALL BE MADE IMMEDIATELY POLLOWING IDENTIFICATION OF DESICIENCIES AND AT NO ADDITIONAL COST TO THE OWNER.
- 8. THE CONTRACTOR SHALL INSTILLED CONSTRUCTION DITFAACES AT LOCATIONS DEDUCTOR OF HE E-WANS AND AT ALTERNATE APPROAGE LOCATIONS USED TO ACCESS THE WORK AREA, ALTERNATE CONTRACTOR.
  - 6. RETENDACE: 2022 CANNESTICAT GLIBGLINES FOR SOIL FOSSION AND SIDNARY CONTRICT, SPETIATION IN COMPENSION WITH THE CONNESTICATION IN COMPENSION WITH THE CONNESTICATION TO ENVIRONMENTAL PROTECTION OF SUSSECUENT WITHOUT CONTROL OF SUSPECT WITHOUT CONT

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Replacement of Amfrak Connecticut River Bridge (MB 106.89) Client/Project Amtrak, Hardesty & Hanover 17 Shore Road Mitigation Site

DEWATERING BAG

PLAN VIEW

DEWATERING BAG STRUCTURE NOT TO SCALE

EROSION AND SEDIMENT CONTROL

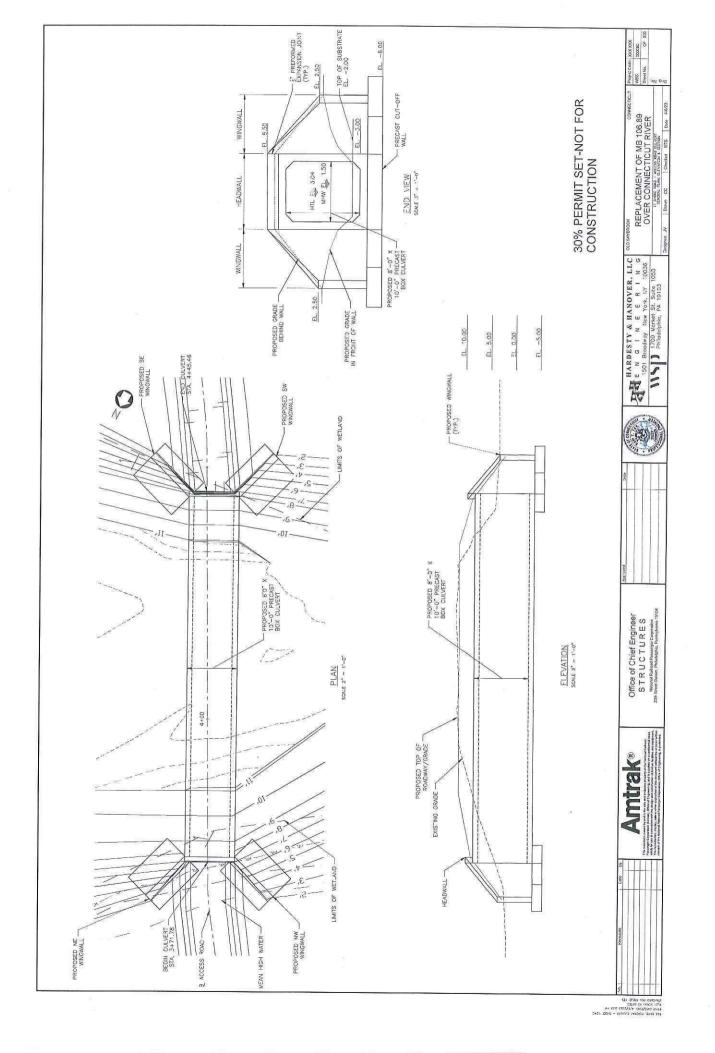
Old Saybrook and Old Lyme, Connecticul

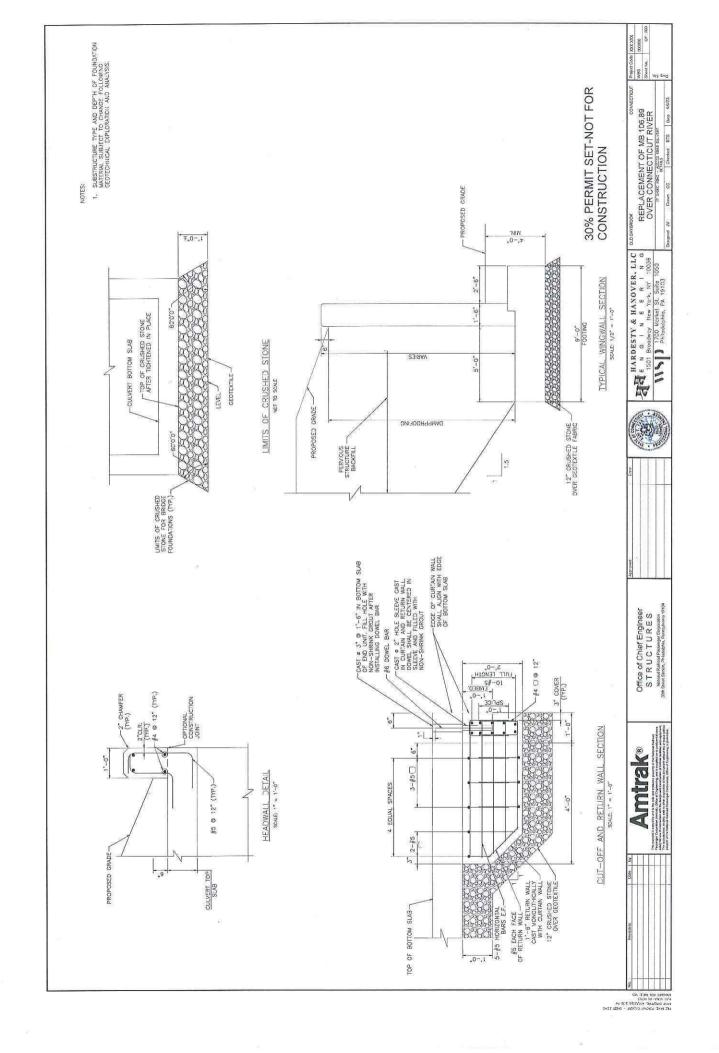
Scale AS SHOWN NOTES & DETAILS Project No. 195602497 Revision Sheet 0 9 of 9

C-300

PERMITTING PLANS FOR

APRIL 2023









Replacement of Amtrak Connecticut Tidal Marsh Mitigation Design River Bridge (MP 106.89) Old Lyme and Old Saybrook, CT 3.25-Acre Site





VICINITY MAP 1"=2000"

| GEMERAL NOTES AND LEGIND | EXISTING CONDITIONS PLAN | PROPOSED CONDITIONS PLAN | CONSTRUCTION ACCESS, SITE PREPARATION AND STACING/LAYDOWN PLAN | SECTIONS AND SECTION DETAILS | EROSION AND SEDMANT CONTROL NOTES & DETAIL |
|--------------------------|--------------------------|--------------------------|--|------------------------------|--|
| 5-002                    | 0-100                    | C-101                    | C-103  | C-200                        | C-300                                      |
|                          |                          |                          |  |                              |  |





PLANS FOR PERMITTING



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

2023.04.07 PROJECT NUMBER: 195602497

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A CONTRACTOR CONTRACTOR CONTRACTOR CONTRACTOR CONTRACTOR
TO ALLOW FOR FILED LOCATION OF FACILITIES IN THE WIDERFY OR THE

COORDINATE WITH AMIRAK AND OBTAIN APPROVALS FOR ACCESS WITHIN RAILROAD RIGHT-OF-WAY.

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CONTRACTOR IS RESPONSIBLE FOR EVALUATING THE CONDITION OF BISTINGS ROADS AND CULVERTS AND INSTALLATION OF TBAIPORRAY MENSINES FOR USE OF ROADS AND CULVERTS DURING CONSTRUCTION.

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7. SPEED LIVIT ALONG ACCESS ROADS IS NOT TO EXCEED 10 MPH.

REPUELING OR HANDLING OTHER 810-TOXIC LIQUIDS IS PROHEITED IN THE VICINITY OF LOW MARSH, RIVERBANKS, TIDAL CREEKS, OR DITCHES.

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26, A COMPLETE SPILLYTI SHALL BE MAINTAINED AT THE PROJECT APEA. ALL CONSTRUCTION EQUIPMENT SHALL HAVE A MOUNTED FIRE EXTRIGUISHER.

ALL CONTOURS AND ELEVATIONS ARE PRESENTED IN FEET AND REFER TO THE MORTH AMERICAN VERTICAL DATUM OF 1988 INAVO 1988).

NORTH APROW, BEARNOS, AND COOPDINATES ARE BASED UPON THE NORTH AMERICAN DATUM OF 1983 INAD 1983] CONNECTICUT STATE PLANE COORDINATE SYSTEM PETI UNITS.

STAVEC ACCEPTS NO REPONSELLY FOR THE ACCURACY OF MAPS, AND DATA THAT HAVE BEEN SUPPLED BY OTHERS.

CONTRACTOR SHALL VERIFY CRITICAL ELEVATIONS AND ORADES IN THE FELL PPOR TO CONSTRUCTION.

PRIOR TO COMMENCING FURTHER WORK AND SHALL BE MAINEAINED THROUGHOUT THE DURATION OF WORK.

29. ALL MATERIAL PEMOVED FROM THE PROJECT STESHALL BE DISPOSED OF IN COMPLANCE WITH ALL APPLICABLE REGULATIONS. ONATE RETUELING SHALL OCCUR ONLY AS ALLOWED BY PROJECT PROMIS, A DRIP PAN OR A 850RBENT PADS SHALL BE USED DURING ALL DISPENSING OPERATIONS.

COPOSED 5' MAJOR CONTOUR COPOSED 1' MINOR CONTOUR ISTING PROPERTY LINE ISTING RIVER EDGE (APPROX.)

30, WORK SHALL COMPLY WITH ALL APPLICABLE ENVIRONMENTAL REGULATIONS AND PROJECT PERMIT CONDITIONS.

CONCEPTUAL CONSTRUCTION SEQUENCE

11.3. DESEGO PORTE PRINCIPED COLINDOL OF CONMON RED 7. CORDIOCIPEREDE CONTROL PREMIARION PREMIA PLEAS AN WEBS PRINCIPED COMPANIA AUGUSTA IN TRANSPILANT RELA AL LEAST AN WEBS 13. WORLD FOUR MEMBERS AND MARCES TO OPERIT STANDE ARRAYS I. 19. RECORD STANDARD OF PRODUCED SAID WITH A PRINCIPED AND A A PRIN

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II, REFERENCE "2020 CONNECTION GUIDELINE FOR SOIL RECORDS AND SEGMENT CONNECTION FOR THE CONNECTION CONNECTION

CONTRACTOR SHALL NAKEDATEZY REPORT ANY DAMAGETO ENGINES. PPES, UTILITIES, OR STRUCTURES TO THE OWNER AND ENCINEER, AND OBTAIN DIRECTIONS AS TO REPAIR, REPLACEMENT OR ABANDONARINI.

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CONDICT PRECONSTRUCTION TIBITIES SWEEP

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STOOMER, AND DRAINE SWEET PRANSPORT OF EXCAVATED MATERIAL FROM

THE RANDER AND ASK ASK DINGORY.

22. DURING ALL NON-WORK PERIODS EXCEEDING A DURATION OF 24. HOURS, COMINACTOR'S EQUIPMENT SMALL BE DEMORIUSED AS SPECIFIED IN PROJECT PERMITS.

23. ALL TEMPORARY AND PERMANENT MATERIALS FOR CONSTRUCTION SHALL BE CLEAN AND FREE OF DESTS.

CONSTRUCTION EGLINATED CANNOT BE OPERATED ON THE MARSH 32 MRAFEE ENERGY, AS APPROVED BY PROLECT PROMISE. CONSTRUCTION IT CANNOT BE OPERATED WHEN THE MARSH SURFACE BY IDNALLY RINDARD.

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Replacement of Amtrak Connecticut Rive Bridge (IMB 106.89) Clent/Project Amfrak, Haraesty & Hanover 3,25-A cre Miligation Site

Project No. 195602497 Revision Sheet 0 2 of 7

PLANS FOR PERMITTING **APRIL 2023** 

JMITS OF DISTURBANCE

Old Saybrook and Old Lyme, Connecticut

GENERAL NOTES AND LEGEND

G-002

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| Notes<br>58   |

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Replacement of Amtrak Connecticut Rivers Bridge (WB 106,89) Old Seybrook and Old Wine, Connecticut

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3.25-k-are Milligation Site
Replacement of Amrick, Connecticul River
Bridge (WB 106.89)

Old Saybrack and Old Lyme, Connecticut

PROPOSED CONDITIONS PLAN

Project No. 195602497 Revision Sheet 0 4 of 7

PLANS FOR PERMITTING APRIL 2023

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Replacement of Amtrak Connecticul River Bridge (MB 106.89) Grent/Project A mirak, Hardesty & Hanover 3,25-Acre Miligation Site

Old Saybrook and Old Lyme, Connecticut

PROPOSED CONSTRUCTION ACCESS, SITE PREPARATION AND STAGING/LAYDOWN PLAN

( May COMMEDICAL PASSEMENT COMMEDICAL RAFE CLO LYME, CT COMMEDICAL RAFE COMMEDICAL R TRANSPLANT AREA (15-FT-WIDE) | 100 FT X 25 FT ~ 1.00 FT X 25 FT ~ 1.00 FT X 25 FT ~ 1.00 FT X 20 FT SECURIO DI PROPIRE DI LILAEOPSIS AND MUDWORT OF TRANSPLANT AREA (WIDTH ~ 18 FT. 13-FT.-WIDE PULANTING AREA WITH 3-FT.-WIDE BUTTER FOR RESIDENCY MATERAL) (AREA ~5,000 SO, FT.) OIL BOOM (TYP.)-SECONDARY WORK FLOAT MODRING AREA (336 FT X 25 FT; ~8,400 SQ.FT.)

PLANS FOR PERMITTING APRIL 2023

Project No. 195602497 Revision Sheet 0 5 of 7

C-102

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MUTAD ADDA C.A. MALW MHW MHW MHW MTH

ELEVATION (FT, NAVD88)

ELEVATION (FT, NAVD88)

-w-w (1.67) (30%)

> (FT.) ELEVATION

- TRANSPLANT AREA (TYP.)

VERTICAL - 1"-5" / HG

( Fig. )

STATION (FT)

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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 Lyme, Connecticut

SECTIONS AND SECTION DETAILS

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MATCH ADJACENT GRADES (TYP.) ELEVATION (FT, ELEVATION (FT, NAVD88)

 $I_{\widetilde{\widetilde{\mathcal{Z}}}}^{\tilde{s}}$ EVATION (FT, NAVD88)

STATION (FT)

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

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2. PRESENCE STEMS (10) THIS SHEET FOR RETERIOR WITER SURVICE DEVINIED FOUR

2. PRESENCE STEMS (THE MATERIAL FROM ADMOSTIC BEINGS OF WITERLE DICKNIED FOUR

3. WITCH ADMOSTIC GROSS WITH DITCH PLUS INSTEMS.

PLANS FOR PERMITTING

**APRIL 2023** 

NOTES:
1. RETERBACE SECTION 1 ON THIS SHEET FOR RETERBACE WHITE SURFACE ELEMINONS.
2. RETERBACE SECTION DETAIL "D" (OTDA PLUGGMG (FP?)) DN THIS SHEET.

C-101 VERTICAL - 1"-5" / HORIZONIAL - 1"-50"

STATION (FT)

ELEVATION (FT, NAVD88)

(FT, NAVD88)

(FT, NAVD88)

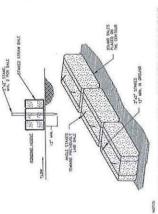
(FT, NAVD88)

NOTES:
1. REFERENCE SECTION DETAIL "8" (TRANSPLANT AREA (TYP.)) ON THIS SHEET.

C-101 SECTION - EXISTING TERRAIN - NORTH

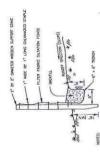
STATION (FT)

ELEVATION (FT, NAVD8B)



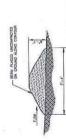
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### STAKED EROSION CONTROL BARRIER: STRAW BALE NOT TO SCALE



- 2. CXTEND FLEER FABRIC A UNHALM OF 6" NTD THENDY
- A SAL PLACE MATCHAL SAIL BE ATHORID TO THE SUPPORT STARS WITH A MINIMUM OF SIX 1" WIDE BY 1" LONG DALWHELD STAPLES.

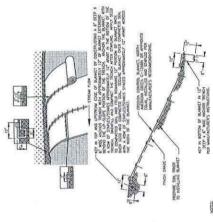
### STAKED EROSION CONTROL BARRIER: SILT FENCE NOT TO SCALE



- PACES GEN SPALE BE PLACED ALONG RIGHE CONCORED TO ANNUAL PROBING PERIODICS.

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- ATTREBOW SHALL MOT BE UED ASJACENT TO STROME DR STROMBANG. CONTRACTOR SHALL LEE AN ALTERNATIONE. CONTRACTOR SHALL LEE AN ALTERNATION FACTO. LIGHTON, STANDS DR STRAW WATLE, DOUGH CONTROL. SHAKED BALES DR STRAW WATLE. TO STRAW WATLE. TO STRAW WATLE. SHAKED BALES DR STRAW WATLE. TO STRAW WATCH WA ALTER BOOM.



NOTE:

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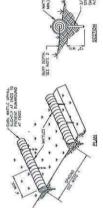
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7. WATLES AUST CORSIST OF BIODEGRADABLE FABRIC OR MESH AND NOT INCLUDE PUSTIC OR MONOFILMENT NETTING TO REDUCE POTENTIAL, WILDLEE ENTANGLEMENT.

6. REPERING: 2002 CONNECTICAT GLIDELINES FOR SDIL, ENGSION AND SEDIMENT CHANGE, ON SPECIAL OF PREADER OF THE CONNECTICAT CHANGE, ON SOIL AND WATER CONSERVATION IN COOPERATION WITH THE CONNECTION TO CONNECTION CONNECTION. OR CONNECTION OF STREAMS OF ENTREDINGENTAL PROTECTION, OR STREAMS

### EROSION CONTROL BLANKET NOT TO SCALE





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211 SAPERS - 20 TET APART
41 SAPERS - 40 TET APART

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- STAKED EROSION CONTROL BARRIER; STRAW WATTLE ON SLOPE NOT TO SCALE

AMTRAK

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Replacement of Amirak Connecticut River Bridge (MB 106.89)

Clent/Project Amtrak, Hardesty & Hanover 3.25-Acre Mitigation Site

Old Saybrook and Old Lyme, Connecticut



## Stantec Stantec

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

PLANS FOR PERMITTING

C-300

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EROSION AND SEDIMENT CONTROL NOTES & DETAILS

APRIL 2023