

PUBLIC NOTICE

REQUEST FOR PERMISSION TO ALTER A U.S. ARMY CORPS OF ENGINEERS PROJECT UNDER SECTION 408

TITLE: Delaware Department of Transportation (DelDOT) – Proposed Permanent Removal of DelDOT Railroad Bridge 3-928R at the Inland Waterway from Rehoboth Bay to Delaware Bay (L&R Canal) Federal Civil Works Project with Subsequent Bank Stabilization and Fishing Access, City of Lewes, Sussex County, Delaware.

PUBLIC NOTICE IDENTIFICATION NUMBER: NAP-2021-00098-85

PUBLIC NOTICE COMMENT PERIOD:

Begins: **10 February 2021**

Expires: **12 March 2021**

Interested parties are hereby notified that an application has been received for a Department of the Army Section 408 permission for certain work at or near a federal project of the United States, as described below and shown on attached figures. Written comments are being solicited from anyone having an interest in the requested alteration. Comments will become part of the U.S. Army Corps of Engineers' (USACE's) administrative record and will be considered in determining whether to approve the request. Comments supporting, opposing, or identifying concerns that should be considered by the USACE in its decision process are all welcome.

This public notice is not a paid advertisement and is for public information only. Issuance of this notice does not imply USACE endorsement of the project as described.

- 1. REQUESTER:** In compliance with 33 USC 408 (Section 14 of the Rivers and Harbors Act of 1899; hereinafter Section 408), DelDOT has requested permission to permanently remove DelDOT Railroad Bridge 3-928R at the Inland Waterway from Rehoboth Bay to Delaware Bay (L&R Canal) Federal Civil Works Project, with subsequent bank stabilization and fishing access.
- 2. LOCATION:** The proposed project is located at the L&R Canal northeast of the intersection of Gills Neck Road and Lewes-Georgetown Trail; approximate center coordinates: Latitude: 38.773615°N, Longitude: -75.13395°W.
- 3. LOCATION MAP(S)/DRAWING(S):** See attached Drawings: Sheets 1 through 7.
- 4. REQUESTER'S PROPOSED ACTION:** Permanently remove DelDOT Railroad Bridge 3-928R at the L&R Canal Federal Civil Works Project with subsequent bank stabilization and fishing access, as per the enclosed drawings. Removal of the bridge structure would

be undertaken utilizing cofferdams, with only one cofferdam structure in-place within the canal at any one time to allow continued passage of transiting vessels. Bridge support piles would be removed to a minimum of one (1)-foot below the canal bottom. Sheet piling is proposed to be utilized on the east bank to create fishing access. Rip-rap stone revetment is proposed to be utilized to stabilize and protect the canal bank slopes.

A Memorandum of Agreement has been finalized between the U.S. Army Corps of Engineers, Delaware's State Historic Preservation Office, and DeIDOT to relocate the bridge structure approximately one third of a mile to the east of its original location; to be displayed along the former rail bed that is currently a public bike trail, including interpretive signage.

5. REGULATORY AUTHORITY: This request will be reviewed according to the provisions of Section 14 of the Rivers and Harbors Act of 1899 (33 U.S.C. 408). A requestor has the responsibility to acquire all other permissions or authorizations required by federal, state, and local laws or regulations, including any required permits from the USACE Regulatory Program under Section 10 of the Rivers and Harbors Act of 1899 (33 USC 403), Section 404 of the Clean Water Act (33 USC Section 1344) and/or Section 103 of the Marine Protection, Research and Sanctuaries Act of 1972 (33 USC 1413). Any Section 10/404/103 permit decision associated with the proposed alteration is separate from and will not be included in the Section 408 permission decision. An approval under Section 408 does not grant any property rights or exclusive privileges nor does it authorize any injury to the property or rights of others.

6. ENVIRONMENTAL COMPLIANCE: A decision on a Section 408 request is a federal action, and therefore subject to the National Environmental Policy Act (NEPA) and other environmental compliance requirements. While ensuring compliance is the responsibility of USACE, the requester is providing all information that the Philadelphia District identifies as necessary to satisfy all applicable federal laws, executive orders, regulations, policies, and ordinances. Based on information provided by the applicant to date, current Corps regulations governing NEPA implementation, and/or the contents of existing NEPA documentation if available, it is likely that the proposed action will be determined to be categorically excluded from the need to prepare an Environmental Assessment (EA) or Environmental Impact Statement (EIS). This determination will be finalized following completion of agency coordination and prior to issuance of the Section 408 Permission Decision.

7. EVALUATION: As part of its evaluation, USACE will first make a determination that the submittal from the requestor is complete. The Philadelphia District is working closely with the requestor to ensure that all required technical plans, maps, drawings, and specifications are provided and are complete. Once the package is complete, a District-led review will be conducted to determine, in accordance with Engineering Circular (EC) 1165-2-216, whether the proposed alteration will impair the usefulness of the USACE Project or be injurious to the public interest, as follows:

- A. *Impair the Usefulness of the Project Determination.* The Philadelphia District's Section 408 review team will determine if the proposed alteration will limit the ability

of the federally authorized project to function as authorized, or will compromise or change any authorized project conditions, purposes or outputs.

- B. Injurious to the Public Interest Determination.* Proposed alterations will be reviewed to determine the probable impacts, including cumulative impacts, on the public interest. Evaluation of the probable impacts that the proposed alteration to the USACE project may have on the public interest requires a careful weighing of all those factors that are relevant in each particular case. Factors that may be relevant to the public interest depend upon the type of USACE project being altered and may include, but are not limited to, such things as conservation, economic development, historic properties, cultural resources, environmental impacts, water supply, water quality, flood hazards, floodplains, residual risk, induced damages, navigation, shore erosion or accretion, and recreation. The decision whether to approve an alteration will be determined by the consideration of whether benefits are commensurate with risks. If the potential detriments are found to outweigh the potential benefits, then it may be determined that the proposed alteration is injurious to the public interest.

8. SOLICITATION OF COMMENTS: The USACE is soliciting comments from the public; federal, state, and local agencies and officials; Indian Tribes; and other interested parties in order to consider and evaluate the impacts of the proposed activity. Any comments received will be considered by USACE to determine whether to issue, modify, condition, or deny a permission for this proposal. To make this decision, comments are used to assess impacts on endangered species, historic properties, water quality, general environmental effects, and other public interest factors listed above. Comments are considered in making a final determination whether the proposed action will be categorically excluded from the need to prepare further NEPA documentation. Comments are also used to determine the need for a public hearing and to determine the overall public interest of the proposed activity.

- A. It should be noted that materials submitted as part of the Section 408 request become part of the public record and are thus available to the general public under the procedures of the Freedom of Information Act (FOIA). Individuals may submit a written request to the Philadelphia District Corps of Engineers, Office of Counsel to obtain copies of said materials under the FOIA.
- B. It is presumed that all parties viewing this notice will wish to respond to this public notice; therefore, a lack of response will be interpreted as meaning that there is no objection to the project as described.

9. COMMENT SUBMISSION AND ADDITIONAL INFORMATION: Written comments on the described work should reference the USACE Public Notice Identification Number found on the first page of this notice. Comments must reach this office no later than the stated expiration date of the Public Notice to become part of the record and be considered in the decision. Comments or requests for additional information should be emailed or mailed to the following address:

Email: JuanCarlos.Corona@usace.army.mil

Mailing Address:

U.S. Army Corps of Engineers

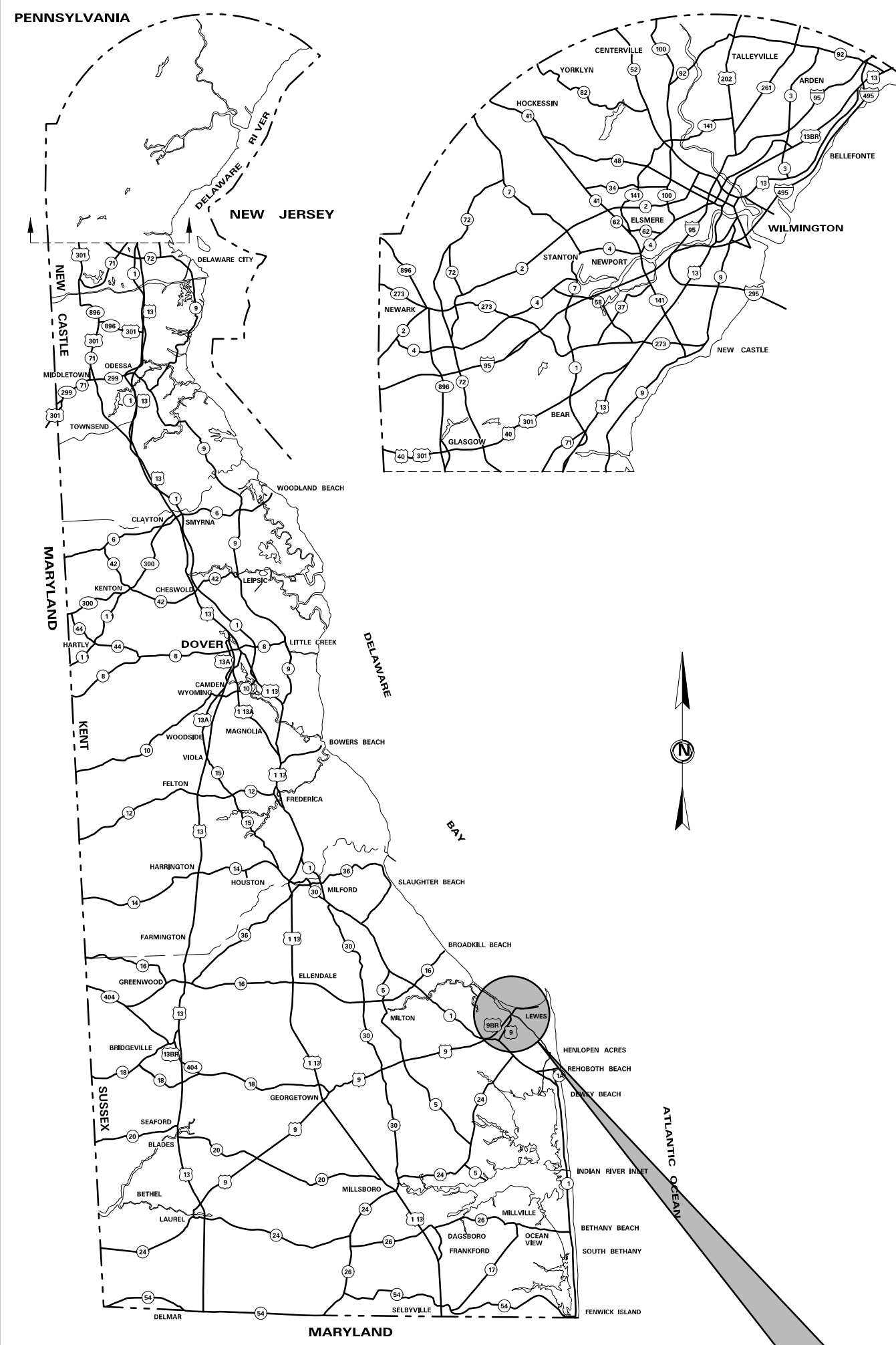
Philadelphia District

ATTN: Juan Carlos Corona

7th Floor

100 Penn Square East

Philadelphia, PA 19107-3390



GENERAL LOCATION OF CONTRACT

THE STATE OF DELAWARE DEPARTMENT OF TRANSPORTATION

U.S. CUSTOMARY
UNITS



CONSTRUCTION PLANS FOR:

BR 3-928R OVER LEWES-REHOBOTH CANAL

FINAL PLANS

CONTRACT NUMBER: T201707602
FEDERAL AID PROJECT NUMBER: NA

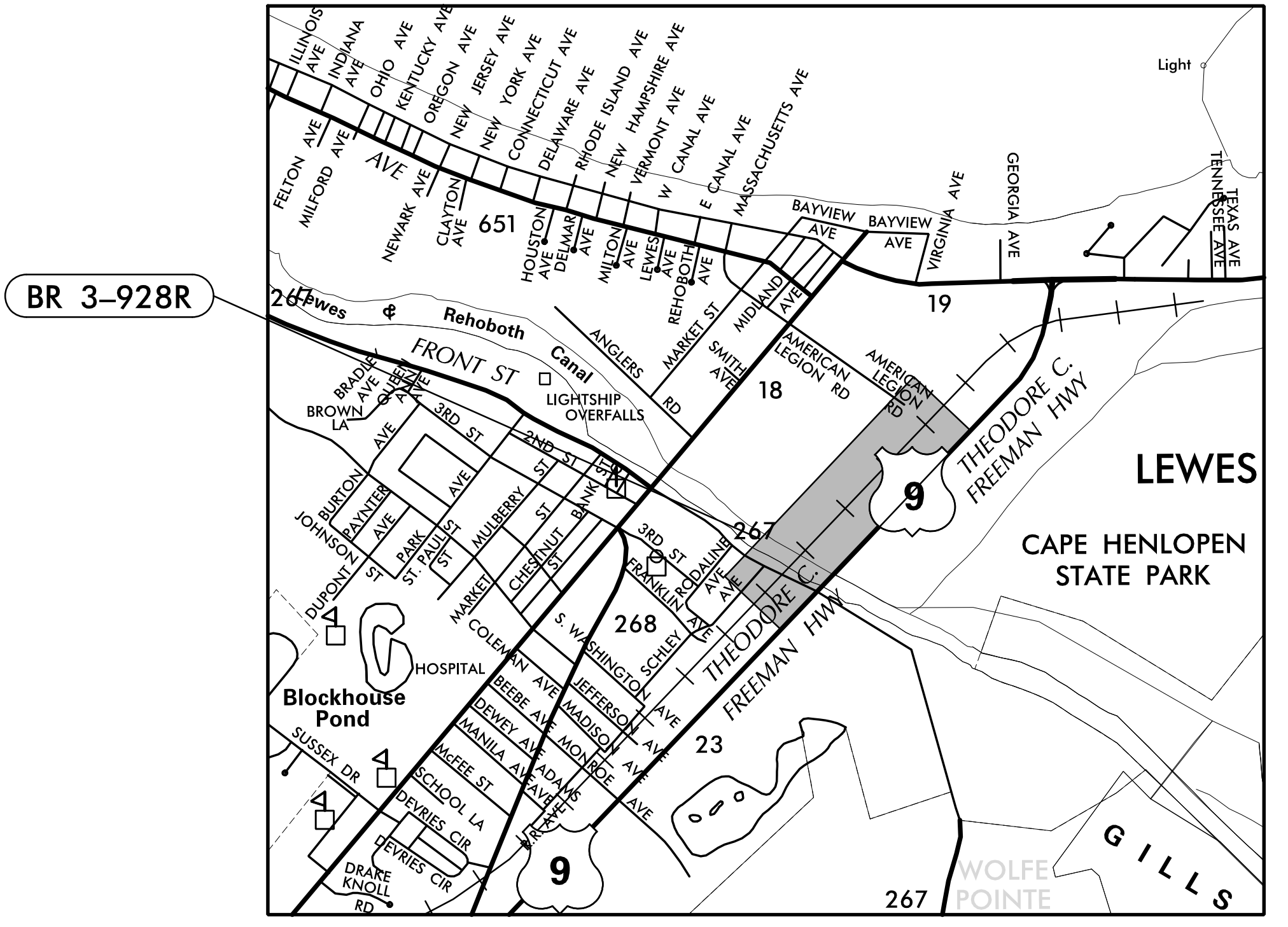
COUNTY: SUSSEX M.R. #: NA

| DESIGN DESIGNATION | | | |
|---|---|--------------------------------|-----------|
| MRD #: N/A | ROAD NAME: DELAWARE COAST LINE RAILROAD | | YEAR: N/A |
| FUNCTIONAL CLASS: N/A | D.H.V. PROJECTED: N/A | YEAR: N/A | |
| TYPE OF CONSTRUCTION: BRIDGE DEMOLITION | | DESIGN SPEED: N/A | |
| A.A.D.T. CURRENT: N/A | YEAR: N/A | TRUCKS: N/A | |
| A.A.D.T. PROJECTED: N/A | YEAR: N/A | DIRECTION OF DISTRIBUTION: N/A | |
| APPROVED DESIGN EXCEPTIONS | | | |
| DESIGN PARAMETER | REQUIRED | PROVIDED | DATE |
| | | | |
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| ADDENDA /REVISIONS | | | |
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| ASSOCIATED CONTRACTS | | | |
| CONTRACT NO. | CONTRACT NAME | | |
| 82-097-01 | NO. 14673 THE PENNSYLVANIA RAILROAD, RAILROAD BRIDGE #38.71 OVER LEWES-REHOBOTH CANAL | | |
| 94-512-04 | REPAIRS TO RAILROAD BRIDGE NO. 3-928R OVER THE REHOBOTH AND LEWES CANAL | | |
| T201230002 | GEORGETOWN TO LEWES RAIL WITH TRAIL, SAVANNAH ROAD TO GILLS NECK ROAD | | |
| T201800502 | LEWES RUNNING BRANCH TRACK REMOVAL MULTI-USE TRAIL | | |

PREPARED BY
T.Y. LIN INTERNATIONAL

THIS SEAL APPLIES TO ALL SHEETS BEARING THE "TY" SECTION DESIGNATION.

DATE _____ SEAL _____



PROJECT LOCATION

APPROVED FOR ADVERTISEMENT

DIRECTOR OF TRANSPORTATION SOLUTIONS

DATE

11/6/2020 T:\Dover\Projects\425025\12_600_CADD\05_Official\Plans\TC01A_BR3-928R.dgn

TP* 3-35-8.08-135.01
HARRY STEVEN ROGERS &
BETTY ANN MCNEIL
D/R 4453-152
P.B. 14-131

TP* 3-35-8.08-136.00
HARRY STEVEN ROGERS &
BETTY ANN MCNEIL
D/R 4453-152
P.B. 14-131

TP* 3-35-8.08-150.00
UNITED STATES OF AMERICA
(DEPARTMENT OF THE ARMY)
P.B. 73-335

TP* 3-35-8.08-150.00
UNITED STATES OF AMERICA
(DEPARTMENT OF THE ARMY)
P.B. 73-335

INFORMATION KIOSK NO. 1
ITEM 763502 (SEE
CONSTRUCTION DETAILS)

TP* 3-35-8.00-54.00
ROBERT J. KENNEDY, III, TRUSTEE OF
ROBERT J. KENNEDY, III REVOCABLE
TRUST, DATED JANUARY 5, 2005
D/R 3756-264

TP* 3-35-8.00-55.00
ROBERT J. KENNEDY, III, TRUSTEE
OF ROBERT J. KENNEDY, III
REVOCABLE TRUST,
DATED JANUARY 5, 2005
D/R 3756-264

TP* 3-35-8.00-55.00
ROBERT J. KENNEDY, III, TRUSTEE OF
ROBERT J. KENNEDY, III REVOCABLE
TRUST, DATED JANUARY 5, 2005
D/R 3756-264

NOTES:

- REMOVAL OF LEWES BOARD OF PUBLIC WORKS ELECTRIC SERVICE AND UTILITY POLES WILL BE PERFORMED BY OTHERS IN ADVANCE OF DEMOLITION EFFORTS.

CROSS-REFERENCE NOTES:

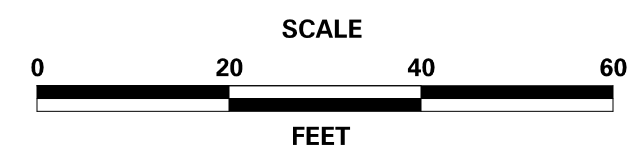
- FOR TYPICAL SECTION OF BREAKWATER & JUNCTION TRAIL, SEE SHEET 8.
- SEE SHEET 12 - CANAL CROSS SECTIONS AND SHEETS 13 AND 14 - EMBANKMENT CROSS SECTIONS FOR CANAL REGRADING DIMENSIONS.
- FOR A COMPLETE LIST AND LOCATIONS OF STRUCTURES AND OBSTRUCTIONS TO BE REMOVED OR RELOCATED, SEE SHEET 16.
- FOR SHEET PILE DETAILS, SEE SHEET 22.
- FOR LOCATIONS OF INFORMATION KIOSK NO. 1 WORKING POINTS, SEE SHEET 25.

| INFORMATION KIOSK NO. 1 WORKING POINTS | | | | |
|--|----------|--------|-------------|-------------|
| POINT NO. | STATION | OFFSET | NORTHING | EASTING |
| 30000 | 31+05.00 | -11.01 | 281673.5305 | 736611.8877 |
| 30001 | 31+15.00 | -1.01 | 281674.0390 | 736626.0207 |
| 30002 | 31+25.00 | -11.01 | 281688.1716 | 736625.5126 |

| TRAILHEAD WORKING POINTS | | | | |
|--------------------------|----------|--------|-------------|-------------|
| POINT NO. | STATION | OFFSET | NORTHING | EASTING |
| 30003 | 34+95.00 | -8.00 | 281956.9553 | 736879.6233 |
| 30004 | 35+05.00 | -8.00 | 281964.2778 | 736886.6166 |
| 30005 | 35+12.00 | -4.50 | 281967.0172 | 736893.9477 |
| 30006 | 34+95.00 | 7.00 | 281946.7382 | 736890.7835 |
| 30007 | 35+05.00 | 7.00 | 281954.0582 | 736897.5966 |
| 30008 | 35+12.00 | 3.50 | 281961.5668 | 736899.8037 |

| FENCE SCHEDULE | | | |
|----------------|--------|--|---|
| NO. | QTY. | DESCRIPTION | NOTES |
| 1 | 287 LF | SPLIT-RAIL FENCE, 3.5 FT. HIGH (ITEM 727510) | STA. 34+92.50 TO STA. 36+25.00, 7' LT./6' RT. |

ADDENDA / REVISIONS

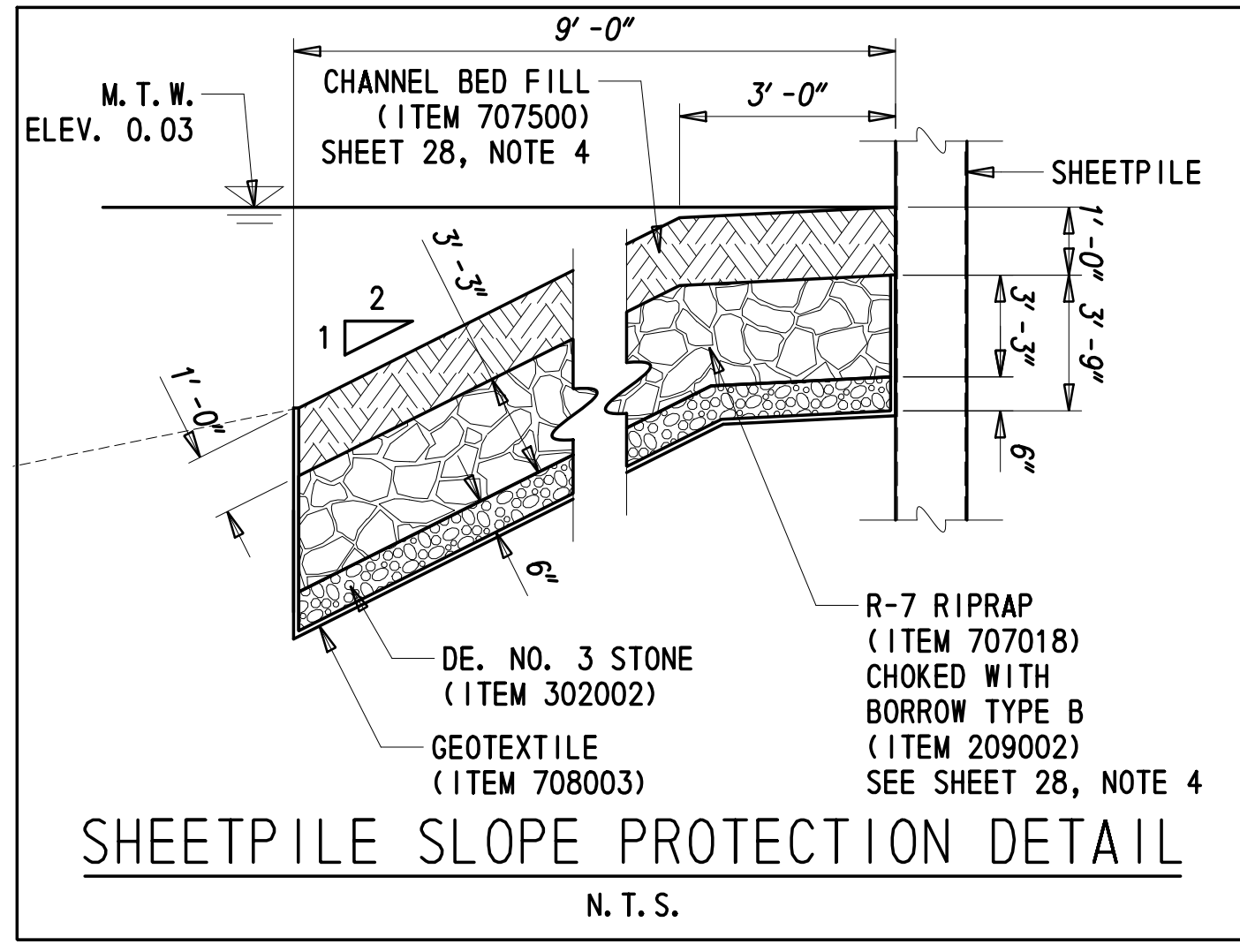
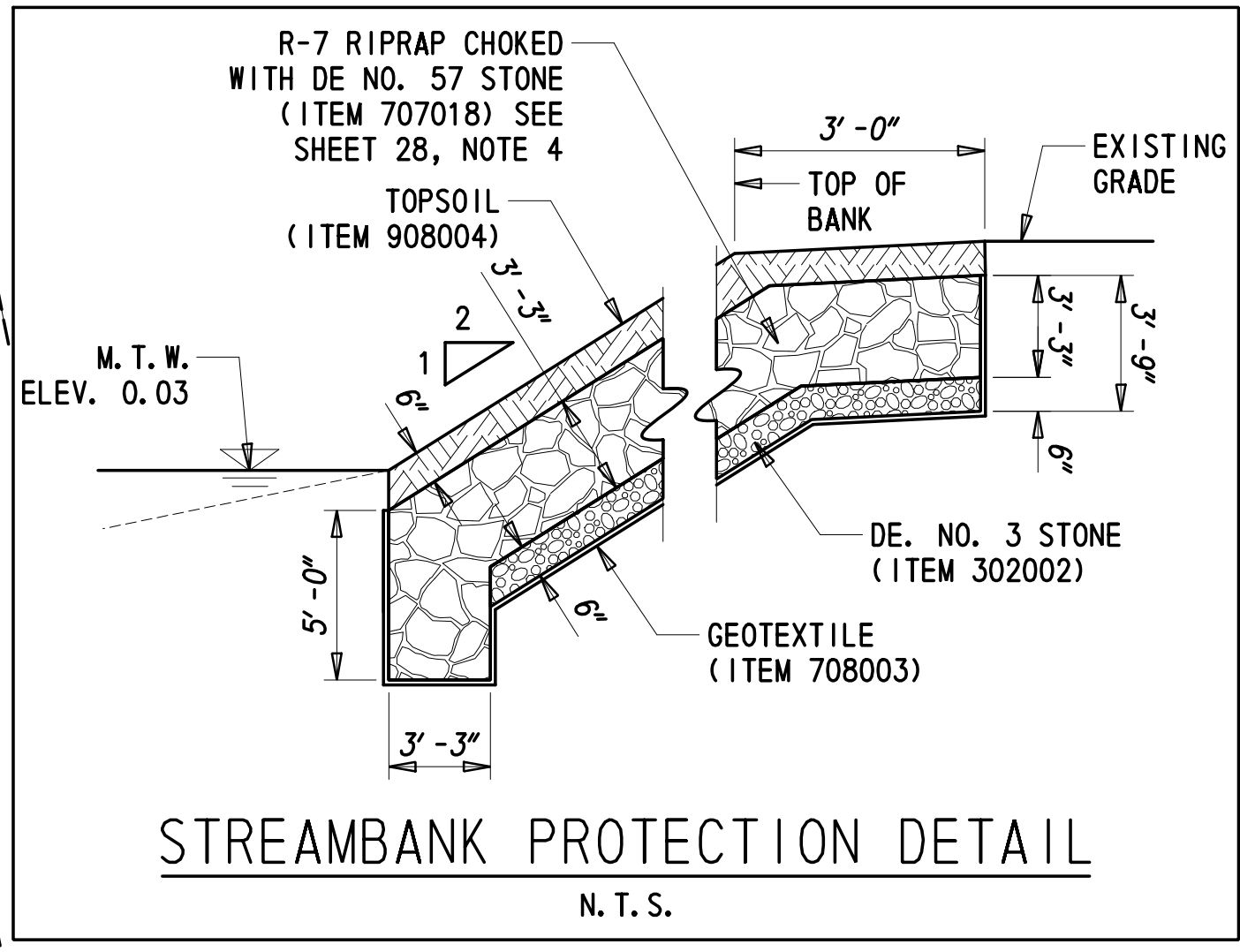


BR 3-928R OVER LEWES-REHOBOTH CANAL

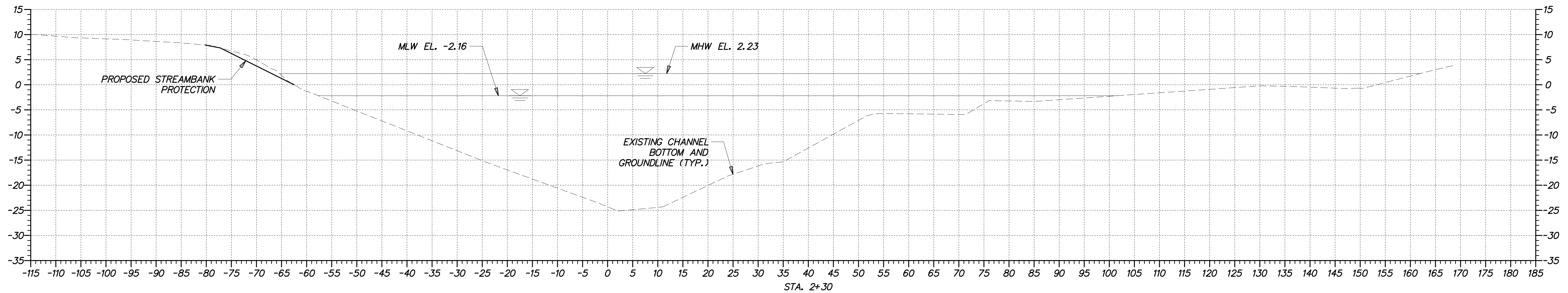
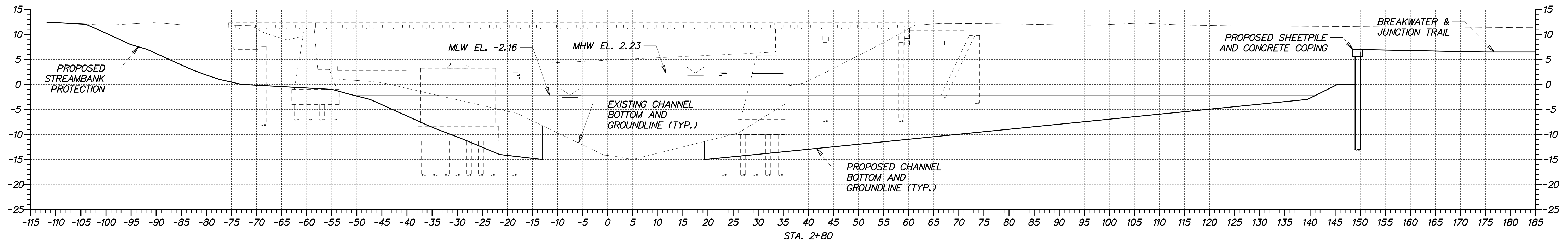
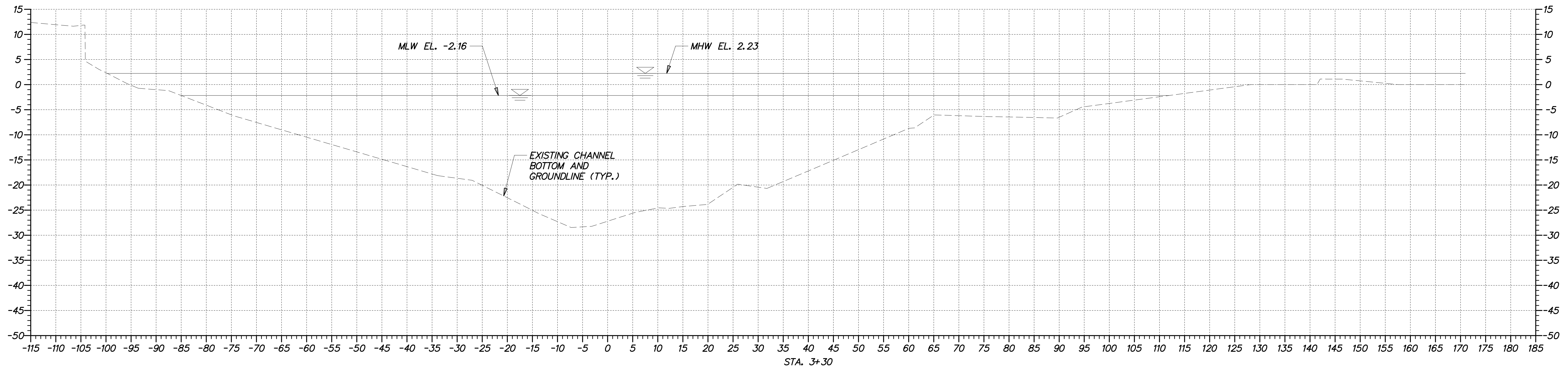
| | | | |
|----------|------------|--------------|--------|
| CONTRACT | T201707602 | BRIDGE NO. | 3-928R |
| COUNTY | SUSSEX | DESIGNED BY: | JWS |
| | | CHECKED BY: | DEF |

CONSTRUCTION PLAN

| | |
|-----------|----|
| SECTION | TY |
| SHEET NO. | 7 |

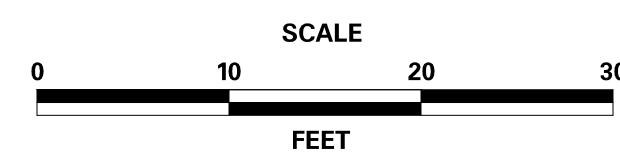


MATCH LINE STA. 36 + 25.00



LEWES-REHOBOTH CANAL BASELINE

ADDENDA / REVISIONS



BR 3-928R OVER
LEWES-REHOBOTH CANAL

CONTRACT

T201707602

COUNTY

SUSSEX

BRIDGE NO.

3-928R

DESIGNED BY: DJC

CHECKED BY: DEF

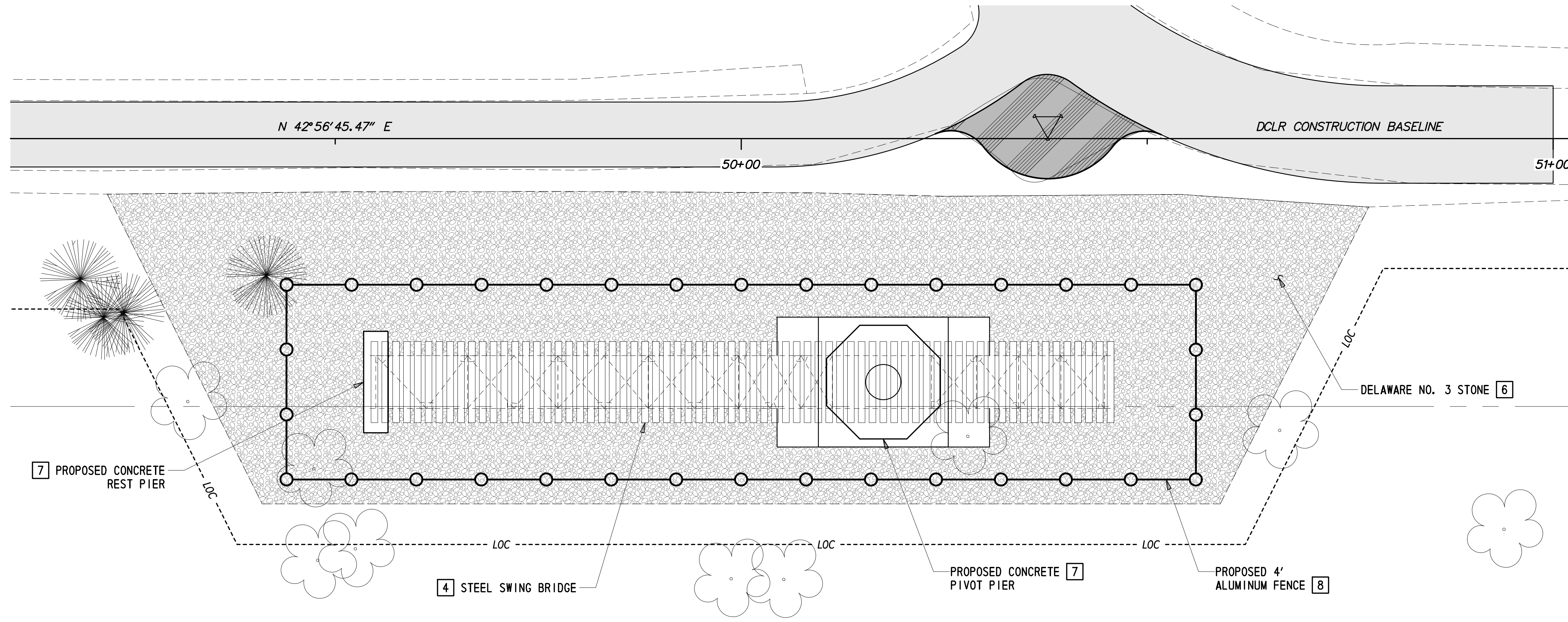
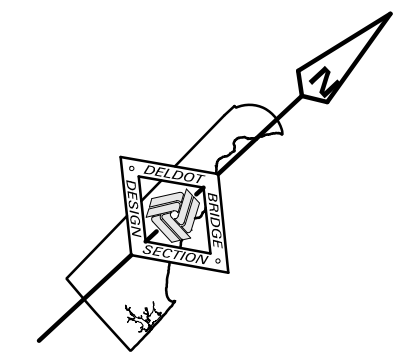
CANAL
CROSS SECTIONS

SECTION

TY

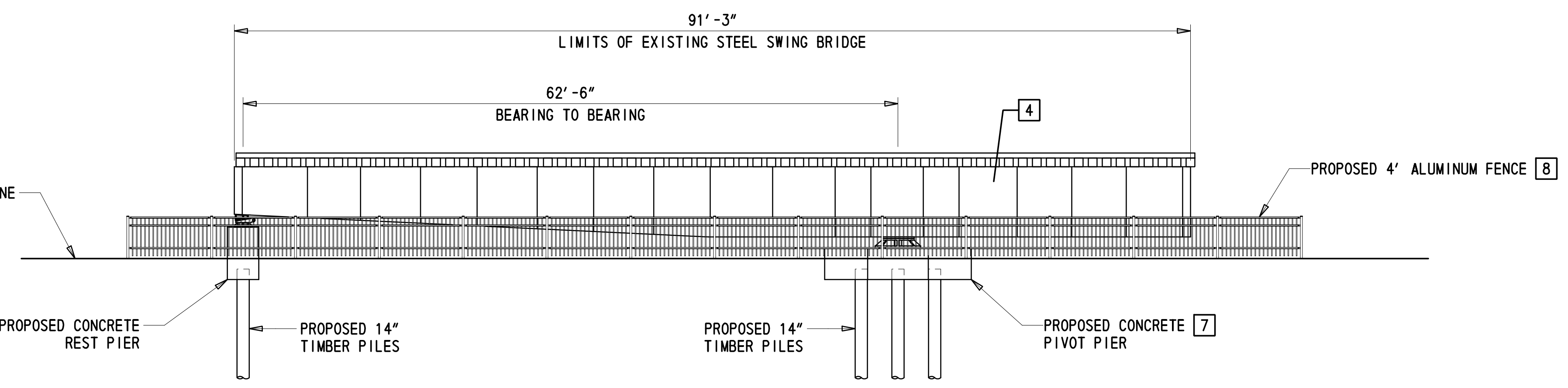
SHEET NO.

12



PLAN

1/8" = 1' - 0"



ELEVATION

1/8" = 1' - 0"

WORK ITEMS (CONT.):

- 4** RELOCATE STEEL SWING BRIDGE TO PROPOSED LOCATION ALONG JUNCTION & BREAKWATER TRAIL NEAR AMERICAN LEGION ROAD. RELOCATION TO BE PAID UNDER ITEM 2115XX.
- 6** REMOVE ALL BRUSH, TREES (AS DESIGNATED ON THE CONSTRUCTION PLAN, SHEET 10) AND DEBRIS WITHIN THE LIMITS OF CONSTRUCTION AT THE PROPOSED BRIDGE LOCATION. RE-GRADE AREA AND COVER WITH DELAWARE NO. 3 STONE. REMOVAL OF BRUSH AND TREES TO BE PAID UNDER ITEM 201000. RE-GRADING TO BE PAID UNDER ITEM 202000. DELAWARE NO. 3 STONE TO BE PAID UNDER ITEM 302002.
- 7** CONSTRUCT CONCRETE PIVOT PIER AND CONCRETE REST PIER ON 14" TIMBER PILES. SALVAGE CENTER BEARING ASSEMBLY AND INSTALL ON PIVOT PIER. SALVAGE BEARING WEDGES AND BEARING WEDGE SEATS AND INSTALL ON REST PIER. TIMBER PILES TO BE PAID UNDER ITEMS 605001 AND 605101. CONCRETE PIERS TO BE PAID UNDER ITEMS 610005 AND 611001.
- 8** INSTALL 4' BLACK ALUMINUM FENCE AROUND PERIMETER OF PROPOSED BRIDGE STRUCTURE, TO THE LIMITS INDICATED IN THE PLANS. ALUMINUM FENCE TO BE PAID UNDER ITEM 727005.

ADDENDA / REVISIONS

SCALE AS NOTED

**BR 3-928R OVER
LEWES-REHOBOTH CANAL**

| | | |
|------------|--------------|---------------|
| CONTRACT | BRIDGE NO. | 3-928R |
| T201707602 | DESIGNED BY: | JWS |
| COUNTY | CHECKED BY: | DEF |
| SUSSEX | | |

**PROPOSED BRIDGE PLAN
AND ELEVATION**

| |
|-----------|
| SECTION |
| TY |
| SHEET NO. |
| 17 |

11/6/2020 T:\Dover\Projects\425025\12_600_CADD\05_Official\Plans\PE02_BR3-928R.dgn

ENVIRONMENTAL COMPLIANCE NOTES

1. GENERAL NOTES:

- A. THE PURPOSE OF THIS SHEET IS TO IDENTIFY THOSE ITEMS ASSOCIATED WITH ENVIRONMENTAL COMPLIANCE. IMPACT CALCULATIONS ARE FOR THE AGENCY PERMIT REPORTING PURPOSES ONLY AND ARE NOT TO BE USED FOR BIDDING PURPOSES.
- B. IF A DEPARTURE FROM THE APPROVED PLANS (WHICH WOULD AFFECT ANY NATURAL AND/OR CULTURAL RESOURCES) IS NECESSARY, CONTACT THE ENVIRONMENTAL STUDIES SECTION AT (302)760-2264 TO ALLOW FOR COORDINATION WITH THE APPROPRIATE RESOURCE AGENCIES AND APPROVAL.
- C. USE OF THIS SHEET DOES NOT ALLEVIATE THE CONTRACTOR'S RESPONSIBILITY TO COMPLY WITH ALL CONDITIONS SET FORTH IN THE ENVIRONMENTAL STATEMENT AND PERMITS.

2. NATURAL RESOURCE ISSUES:

- A. PERMIT REQUIREMENTS/APPROVALS **:
 - U.S. ARMY CORPS OF ENGINEERS (COE): NWP #13 & 27 (PCN REQUIRED)**
 - U.S. ARMY CORPS OF ENGINEERS (COE): SECTION 408 APPROVAL**
 - DNREC - WETLANDS & SUBAQUEOUS LANDS (WLSL): WETLANDS AND SUBAQUEOUS LANDS PERMIT
 - DNREC - WATER QUALITY (WQC) & COASTAL ZONE CONSISTENCY (CZM): TBD
 - US COAST GUARD (USCG): PERMIT**
- * THE PERMITS/APPROVALS LISTED ARE THOSE REQUIRED FOR THIS PROJECT. THE ENVIRONMENTAL STUDIES SECTION IS RESPONSIBLE FOR COORDINATING AND/OR OBTAINING THESE APPROVALS.
- ** THE CONTRACTOR MUST ENSURE THAT THESE PERMITS/APPROVALS ARE IN THEIR POSSESSION PRIOR TO BEGINNING CONSTRUCTION IN THE PERMITTED AREA(S) AND ENSURE THEY ARE DISPLAYED ON-SITE DURING THE ENTIRE CONSTRUCTION PERIOD.

- B. CONSTRUCTION RESTRICTIONS:
 - FISHERIES - -----
 - ENDANGERED SPECIES - -----
 - MIGRATORY BIRDS - -----

3. CULTURAL RESOURCE ISSUES:

- A. BRIDGE 3-928R IS ELIGIBLE FOR LISTING IN THE NATIONAL REGISTER OF HISTORIC PLACES. PRIOR TO THE START OF ANY CONSTRUCTION ACTIVITIES, CULTURAL RESOURCES CONSULTANTS WORKING ON BEHALF OF DELDOT WILL DOCUMENT THE BRIDGE USING LASER SCANNING TECHNOLOGY AND PHOTOGRAPHS. THIS DOCUMENTATION IS REQUIRED DUE TO AN ENVIRONMENTAL COMMITMENT AS STIPULATED IN THE MEMORANDUM OF AGREEMENT (MOA) BETWEEN THE ARMY CORPS OF ENGINEERS, DELDOT, AND THE DELAWARE STATE HISTORIC PRESERVATION OFFICE. DELDOT ARCHITECTURAL HISTORIAN, ALEXANDRA TARANTINO (Alexandra.tarantino@delaware.gov, (302)760-4887), MUST BE CONTACTED TWO WEEKS PRIOR TO THE START OF CONSTRUCTION TO ENSURE THAT THE DOCUMENTATION IS COMPLETE AND NO OTHER WORK IS NEEDED.

4. STREAM RESTORATION AND RIPRAP TREATMENT:

- A. FOLLOW THE SPECIAL PROVISION FOR ITEM 707500 - CHANNEL BED FILL IN REGARDS TO THE SALVAGING OF ON-SITE NATURAL STREAM BOTTOM MATERIAL OR THE FURNISHING OF OFFSITE MATERIAL. IF SUFFICIENT SOURCES FOR CHANNEL BED FILL DO NOT EXIST ON-SITE, ANY NEW MATERIAL MUST CONFORM TO THE REQUIREMENTS OF ITEM 707500 - CHANNEL BED FILL. RECESS ALL RIPRAP IN THE CHANNEL BOTTOM (I.E. BELOW THE WATER LINE) ONE FOOT BELOW STREAM BED ELEVATION AND CHOKE WITH BORROW TYPE 'B' SO THAT ALL OF THE VOIDS IN THE RIPRAP ARE FILLED WITH SPECIFIED MATERIAL. PAYMENT UNDER ITEM 209002 - BORROW, TYPE B. COVER THE RIPRAP WITH A MINIMUM OF 12" CHANNEL BED FILL. MATCH THE FINAL CHANNEL ELEVATIONS WITH EXISTING ELEVATIONS AT THE UPSTREAM AND DOWNSTREAM PROJECT LIMITS. THROUGH THE STRUCTURE, ELEVATIONS WILL BE AS NOTED ON THE PLANS. PAYMENT UNDER ITEM 707500 - CHANNEL BED FILL.
- B. RESTORE OTHER AREAS OF THE CHANNEL BOTTOM AFFECTED BY CONSTRUCTION (INCLUDING, BUT NOT LIMITED TO, THE LOCATION OF SUMP PITS, STABILIZED OUTFALLS, TEMPORARY PIPES AND/OR SANDBAG DIKES AND DIVERSIONS) TO EXISTING CONDITIONS. FILL ANY CAVITIES OR SCOUR HOLES RESULTING FROM CONSTRUCTION ACTIVITIES WITH CHANNEL BED FILL. PAYMENT UNDER ITEM 707500 - CHANNEL BED FILL.
- C. CHOKE ALL RIPRAP ON THE STREAM BANK (ABOVE MEAN HIGH WATER LINE) WITH DELAWARE #57 STONE. PLACE JUST ENOUGH CHOKE MATERIAL TO PREVENT THE LOSS OF TOPSOIL THROUGH THE RIPRAP, AND THEN FINISH FILLING THE VOIDS WITH TOPSOIL SO THAT THE RIPRAP PEAKS ARE BARELY VISIBLE. PLACE AN ADDITIONAL 6-INCH TOPSOIL LAYER ON TOP OF THE RIPRAP. SLOPE SEEDING WILL BE DONE WITH ITEM 908019 - STREAMBANK SEED MIX, SEEDING. FOLLOWING THE SEEDING OPERATION, INSTALL ITEM 908020 - EROSION CONTROL BLANKET (ECB) MULCH, OR OTHER BLANKET AS SHOWN ON THE PLANS. ECB AT TOE OF SLOPE CAN BE EITHER TRENCHED IN OR STAPLED AT 6" ON CENTER. COMPLETE ALL WORK, STARTING WITH THE INITIAL CHOKING WITH TOPSOIL THROUGH THE SEEDING AND MULCHING PRIOR TO ANY RAIN EVENT. DELAWARE #57 STONE IS INCIDENTAL TO THE RIPRAP ITEM. ALL OTHER ITEMS WILL BE PAID FOR UNDER THEIR RESPECTIVE ITEMS.
- D. THE TURBIDITY CURTAIN AND TEMPORARY SHEET PILE SHALL REMAIN INSTALLED DURING THE PLACEMENT OF THE TOPSOIL/SEED/MULCH TO MINIMIZE IN-STREAM SEDIMENTATION. PAYMENT FOR THE TURBIDITY CURTAIN WILL BE UNDER ITEM 909004 - TURBIDITY CURTAIN, FLOATING. PAYMENT FOR THE TEMPORARY SHEET PILE WILL BE UNDER ITEM 604002 - COFFERDAMS.

5. PROTECTION OF RESOURCES:

- A. USE SILT FENCE OR CONSTRUCTION SAFETY FENCE ALONG THE LIMITS OF CONSTRUCTION IN ALL AREAS WHERE WATER/WETLANDS ARE BEING IMPACTED (AS SHOWN ON ENVIRONMENTAL COMPLIANCE SHEETS), AND ALSO IN ANY AREA WHERE WATER/WETLANDS EXIST WITHIN 20 FEET OF THE LIMIT OF CONSTRUCTION (AS SHOWN ON CONSTRUCTION PLAN SHEETS). ANY CONTRACTOR ACCESS BEYOND THE LIMIT OF CONSTRUCTION IS STRICTLY PROHIBITED.
- B. USE SANDBAGS OR COMPOST FILTER LOG (CFL) TO SECURE SILT FENCE AT AREAS ADJACENT TO WOODED UPLANDS/ ALL WETLANDS IN LIEU OF TRENCHING UNLESS PROPER EROSION AND SEDIMENT CONTROL CANNOT BE MAINTAINED. REMOVE SANDBAGS AND CFLS (AND CONTENTS) IN THEIR ENTIRETY WHEN NO LONGER NEEDED. SANDBAGS/CFLS USED TO SECURE THE SILT FENCE IS INCIDENTAL TO ITEM 905001 - SILT FENCE. THE ENVIRONMENTAL STUDIES SECTION (CAROL SULLIVAN, 302-760-2129) CAN PROVIDE FURTHER GUIDANCE REGARDING THIS METHOD OF INSTALLATION.
- C. CLEARLY MARK ALL TREES TO BE REMOVED WITH PAINT PRIOR TO THE EROSION AND SEDIMENT CONTROL MEETING.

CORPS WETLANDS DELINEATED BY ENVIRONMENTAL RESOURCES, INC. ON 5-01-2017 AND 10-18-2018 IN ACCORDANCE WITH THE US ARMY CORPS OF ENGINEERS WETLANDS DELINEATION MANUAL (1987). DNREC-MAPPED WETLANDS APPEAR ON MAP #64.

ORIGINAL SHEET PREPARED BY T.Y. LIN INTERNATIONAL ON 9-28-2018. SHEET LAST UPDATED ON 10-30-2020.

E.C. SHEET 1 OF 2

ADDENDA / REVISIONS

NOT TO SCALE

BR 3-928R OVER
LEWES-REHOBOTH CANAL

| | | |
|------------|--------------|--------|
| CONTRACT | BRIDGE NO. | 3-928R |
| T201707602 | DESIGNED BY: | JWS |
| COUNTY | CHECKED BY: | DEF |
| SUSSEX | | |

ENVIRONMENTAL
COMPLIANCE NOTES

| |
|-----------|
| SECTION |
| TY |
| SHEET NO. |
| 28 |

TP* 3-35-8.08-150.00
UNITED STATES OF AMERICA
(DEPARTMENT OF THE ARMY)
P.B. 73-335

TP* 3-35-8.08-150.00
UNITED STATES OF AMERICA
(DEPARTMENT OF THE ARMY)
P.B. 73-335

TP* 3-35-8.08-135.01
HARRY STEVEN ROGERS &
BETTY ANN MCNEIL
D/R 4453-152
P.B. 14-131

TP* 3-35-8.08-136.00
HARRY STEVEN ROGERS &
BETTY ANN MCNEIL
D/R 4453-152
P.B. 14-131

THE STATE OF DELAWARE, UPON THE
RELATION OF THE SECRETARY OF THE
DEPARTMENT OF TRANSPORTATION
D/R 202-109

TP* 3-35-8.00-55.00
ROBERT J. KENNEDY, III, TRUSTEE OF
ROBERT J. KENNEDY, III REVOCABLE
TRUST, DATED JANUARY 5, 2005
D/R 3756-264



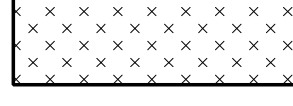


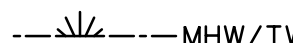

TP* 3-35-8.00-54.00
ROBERT J. KENNEDY, III, TRUSTEE OF
ROBERT J. KENNEDY, III REVOCABLE
TRUST, DATED JANUARY 5, 2005
D/R 3756-264



STATE OF DELAWARE
PERMANENT EASEMENT
PER D/R 4580-180

TP* 3-35-8.08-150.00
UNITED STATES OF AMERICA
(DEPARTMENT OF THE ARMY)
P.B. 73-335

TP* 3-35-8.08-150.00
UNITED STATES OF AMERICA
(DEPARTMENT OF THE ARMY)
P.B. 73-335

LEGEND

-  PERMANENT IMPACT AREA
-  TEMPORARY IMPACT AREA
-  CREATION AREA
-  MHW MEAN HIGH WATER
-  PMHW PROPOSED MEAN HIGH WATER
-  MHW/TW MEAN HIGH WATER / TIDAL WETLAND
-  TW TIDAL WETLAND

 IMPACT AREA TYPE ID. (SEE BELOW)
 IMPACT AREA ID. AND/OR NUMBER

O = OPEN WATER IMPACT W = WETLAND IMPACT
T = TEMPORARY IMPACT C = CREATION AREA

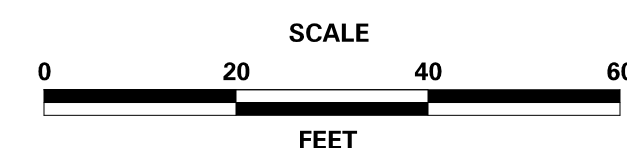
| OPEN WATER CREATION AREA SCHEDULE | | | | | |
|-----------------------------------|-------------------------|-----------|-----------|-------------|--------------|
| ID | IMPACT DESCRIPTION | AREA (SF) | AREA (AC) | VOLUME (CY) | JURISDICTION |
| OC-1 | WEST REST PIER REMOVAL | 861.77 | 0.0198 | 96.71 | COE/DNREC |
| OC-2 | PIVOT PIER REMOVAL | 186.40 | 0.0043 | 88.30 | COE/DNREC |
| OC-3 | WEST FENDER REMOVAL | 111.29 | 0.0026 | 58.86 | COE/DNREC |
| OC-4 | EAST FENDER REMOVAL | 90.51 | 0.0021 | 56.45 | COE/DNREC |
| OC-5 | EAST REST PIER REMOVAL | 311.14 | 0.0071 | 184.26 | COE/DNREC |
| OC-6 | EAST EMBANKMENT REMOVAL | 6339.77 | 0.1455 | 2900.00 | COE/DNREC |
| TOTAL OPEN WATER CREATION AREAS | | 7900.88 | 0.1814 | 3384.58 | COE/DNREC |

| TEMPORARY OPEN WATER IMPACT AREA SCHEDULE | | | | | |
|---|--------------------------|-----------|-----------|-------------|--------------|
| ID | IMPACT DESCRIPTION | AREA (SF) | AREA (AC) | VOLUME (CY) | JURISDICTION |
| OT-1 | WEST COFFERDAM | 5672.68 | 0.1302 | 210.10 | COE/DNREC |
| OT-2 | EAST COFFERDAM | 5703.26 | 0.1309 | 211.23 | COE/DNREC |
| OT-3 | EAST BANK DEWATERING BAG | 167.17 | 0.0038 | 6.19 | COE/DNREC |
| TOTAL TEMPORARY OPEN WATER IMPACTS | | 11375.94 | 0.2612 | 421.33 | COE/DNREC |

| PERMANENT TIDAL WETLAND IMPACT AREA SCHEDULE | | | | | |
|--|--------------------|-----------|-----------|-------------|--------------|
| ID | IMPACT DESCRIPTION | AREA (SF) | AREA (AC) | VOLUME (CY) | JURISDICTION |
| W-1 | EAST BANK RIPRAP | 257.65 | 0.0059 | 35.78 | COE/DNREC |
| TOTAL PERMANENT TIDAL WETLAND IMPACTS | | 257.65 | 0.0059 | 35.78 | COE/DNREC |

| TEMPORARY TIDAL WETLAND IMPACT AREA SCHEDULE | | | | | |
|--|--------------------|-----------|-----------|-------------|--------------|
| ID | IMPACT DESCRIPTION | AREA (SF) | AREA (AC) | VOLUME (CY) | JURISDICTION |
| WT-1 | EAST BANK | 84.81 | 0.0019 | 3.14 | COE/DNREC |
| TOTAL TEMPORARY TIDAL WETLAND IMPACTS | | 84.81 | 0.0019 | 3.14 | COE/DNREC |

ADDENDA / REVISIONS



**BR 3-928R OVER
LEWES-REHOBOTH CANAL**

| | | |
|------------|--------------|---------------|
| CONTRACT | BRIDGE NO. | 3-928R |
| T201707602 | DESIGNED BY: | JWS |
| COUNTY | CHECKED BY: | DEF |
| SUSSEX | | |

**ENVIRONMENTAL
COMPLIANCE PLAN**

E.C. SHEET 2 OF 2

| | |
|-----------|----|
| SECTION | TY |
| SHEET NO. | 29 |

11/6/2020 T:\Dover\Projects\425025.12_600_CADD\05_Official\Plans\EC02_BR3-928R.dgn

MOT GENERAL NOTES

1. AMERICAN TRAFFIC SAFETY SERVICES ASSOCIATION (ATSSA) CERTIFIED TRAFFIC CONTROL SUPERVISOR REQUIREMENT FOR THIS PROJECT.

| | |
|-------|--|
| (X) | THE CONTRACTOR SHALL NOT BE REQUIRED TO HAVE AN ATSSA SUPERVISOR ASSIGNED TO THIS PROJECT. |
| () | THE CONTRACTOR SHALL HAVE AN ATSSA SUPERVISOR ASSIGNED TO THIS PROJECT. THE CONTRACTOR'S GENERAL SUPERINTENDENT FOR THIS PROJECT OR ANOTHER ATSSA CERTIFIED MEMBER OF THE CONTRACTOR'S PROJECT STAFF MAY BE THE ATSSA SUPERVISOR. PAYMENT FOR ATSSA SUPERVISOR IS INCIDENTAL TO ITEM 801000. |

2. A TEMPORARY SINGLE LANE CLOSURE IS PERMITTED ON GILLS NECK ROAD WHEN THE CONTRACTOR IS ACCESSING THE CONSTRUCTION AREA OR WORKING ADJACENT TO THE ROADWAY. SINGLE LANE CLOSURE SHALL BE IN ACCORDANCE WITH TA-10 OF THE DELAWARE MUTCD.

3. COST FOR ALL MOT ITEMS, EXCEPT FLAGGERS, WILL BE INCLUDED IN ITEM 801500 - MAINTENANCE OF TRAFFIC, ALL INCLUSIVE.

EROSION AND SEDIMENT CONTROL NOTES

| EROSION POTENTIAL FOR THIS PROJECT | CONTRACTOR ESC SUPERVISOR REQUIREMENT |
|------------------------------------|---|
| () INSIGNIFICANT | NONE |
| () MINOR | CONTRACTOR TRAINING PROGRAM, AS DEFINED IN SECTION 6.2 OF THE DELAWARE SEDIMENT AND STORMWATER REGULATIONS. |
| (X) MAJOR | CERTIFIED CONSTRUCTION REVIEWER (CCR), AS DEFINED IN SECTION 6.3 OF THE DELAWARE SEDIMENT AND STORMWATER REGULATIONS. |

2. THE SEDIMENT AND STORMWATER MANAGEMENT PLANS HAVE BEEN APPROVED BY DELDOT'S STORMWATER ENGINEER UNDER DELDOT'S DELEGATED AUTHORITY. THE SEDIMENT AND STORMWATER MANAGEMENT PLANS ARE VALID FOR A FIVE YEAR PERIOD, BEGINNING ON THE DATE THE STORMWATER ENGINEER SIGNED THE CONSTRUCTION TITLE SHEET. IF THE FINAL ACCEPTANCE OF THE PROJECT IS ANTICIPATED TO EXTEND BEYOND THE FIVE YEARS, THE CONTRACTOR WILL INFORM THE ENGINEER THREE MONTHS PRIOR TO THE EXPIRATION OF THE APPROVED SEDIMENT AND STORMWATER MANAGEMENT PLANS. THE STORMWATER ENGINEER WILL REVIEW THE CURRENT SEDIMENT AND STORMWATER MANAGEMENT PLAN AND ISSUE AN EXTENSION WITH ANY APPROPRIATE MODIFICATIONS.

3. THE DISTURBED AREA FOR THIS PROJECT IS 0.74 ACRES.

4. THE REMOVAL OF IMPERVIOUS AREA FOR THIS PROJECT IS 1,760 SQUARE FEET.

GILLS NECK ROAD - ALLOWABLE TEMPORARY LANE CLOSURE HOURS

| | 12:00 AM | 1:00 AM | 2:00 AM | 3:00 AM | 4:00 AM | 5:00 AM | 6:00 AM | 7:00 AM | 8:00 AM | 9:00 AM | 10:00 AM | 11:00 AM | 12:00 PM | 1:00 PM | 2:00 PM | 3:00 PM | 4:00 PM | 5:00 PM | 6:00 PM | 7:00 PM | 8:00 PM | 9:00 PM | 10:00 PM | 11:00 PM |
|-----------|----------|---------|---------|---------|---------|---------|---------|---------|---------|---------|----------|----------|----------|---------|---------|---------|---------|---------|---------|---------|---------|---------|----------|----------|
| SUNDAY | | | | | | | | | | | | | | | | | | | | | | | | |
| MONDAY | | | | | | | | | | | | | | | | | | | | | | | | |
| TUESDAY | | | | | | | | | | | | | | | | | | | | | | | | |
| WEDNESDAY | | | | | | | | | | | | | | | | | | | | | | | | |
| THURSDAY | | | | | | | | | | | | | | | | | | | | | | | | |
| FRIDAY | | | | | | | | | | | | | | | | | | | | | | | | |
| SATURDAY | | | | | | | | | | | | | | | | | | | | | | | | |

LEGEND:

■ LANE CLOSED □ LANE OPEN

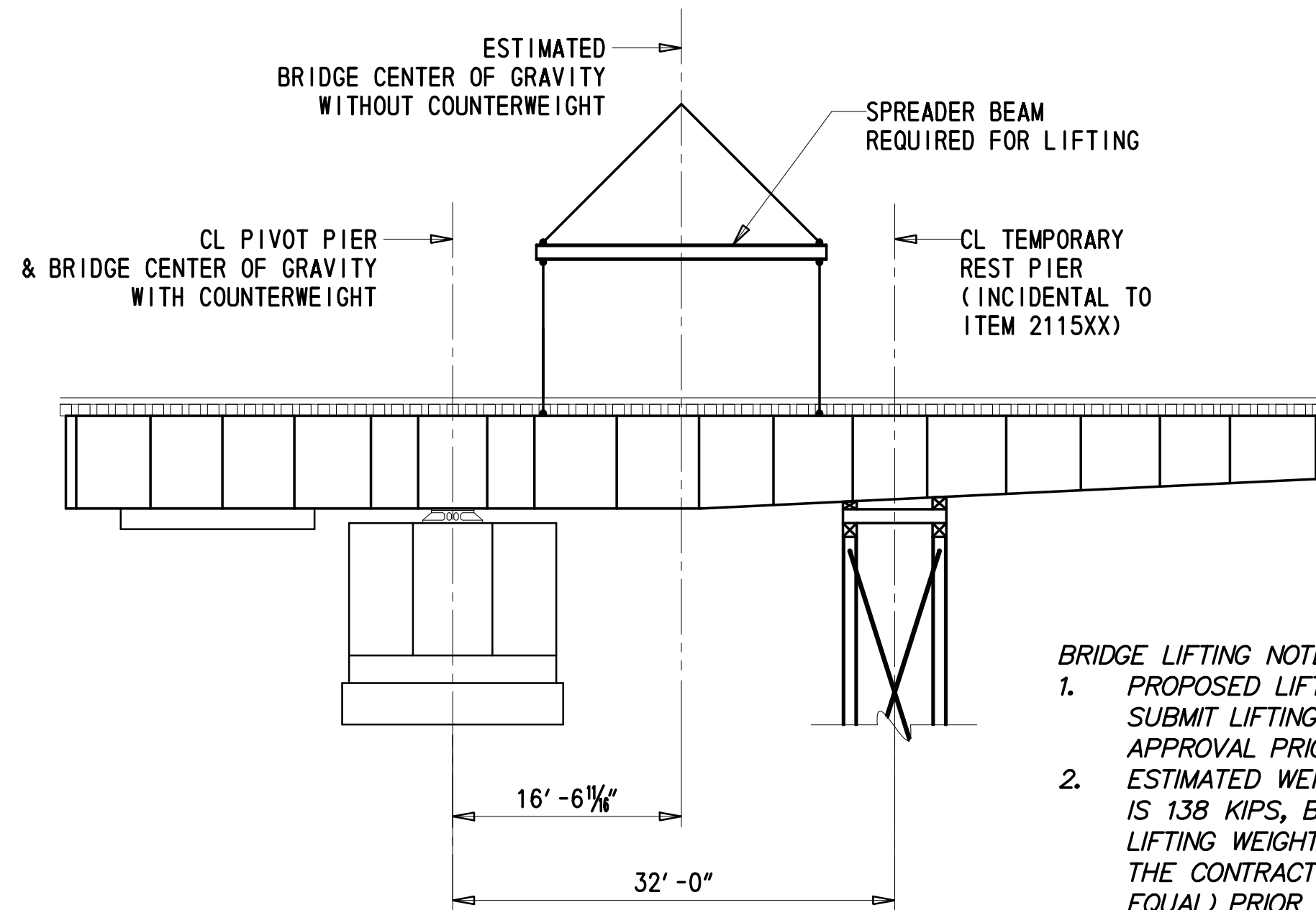
SEQUENCE OF CONSTRUCTION

CONSTRUCTION PHASE 1:

- INSTALL SILT FENCE AND TURBIDITY CURTAIN AS SHOWN IN PLANS. REMOVE EXISTING CHAIN LINK FENCE ON TOP OF REST PIER.
- CONSTRUCT SHEET PILE COFFERDAM, AT THE LOCATIONS SHOWN.
- INSTALL SUMP PIT WITH R-4 RIPRAP AND DEWATERING BAG AS A SEDIMENT TRAPPING DEVICE. DEWATER THE WORK AREA IN ACCORDANCE WITH SECTION 902 OF THE STANDARD SPECIFICATIONS. ALL WORK ASSOCIATED WITH DEWATERING ACTIVITIES, INCLUDING SUMP PIT AND DEWATERING BAG SHALL BE INCIDENTAL TO ITEM 604002 - COFFERDAMS.
- REMOVE TREES AND CLEAR BRUSH AT THE PROPOSED BRIDGE LOCATION. REMOVE WOOD RAIL FENCE ALONG THE BREAKWATER & JUNCTION TRAIL PER PLANS. CONSTRUCT PROPOSED CONCRETE PIVOT AND REST PIER PER PLANS.
- CONSTRUCT TEMPORARY REST PIER AND DEMOLISH CONCRETE COUNTERWEIGHT ON EXISTING BRIDGE. (SEE SCHEMATIC, THIS SHEET)
- RELOCATE EXISTING STEEL BRIDGE, INCLUDING BEARING ASSEMBLY AND GEAR RACK TO THE FINAL LOCATION.
- REMOVE WEST TIMBER FENDER SYSTEM, WEST CONCRETE REST PIER, CONCRETE PIVOT PIER, TIMBER APPROACH SPAN, TIMBER ABUTMENT AND WINGWALLS, AND EXISTING EMBANKMENT MATERIAL. REGRADE CHANNEL, AND AREA BETWEEN GILLS NECK ROAD AND CANAL. INSTALL RIPRAP STREAMBANK PROTECTION ON THE WEST BANK.
- REMOVE DEVICES ASSOCIATED WITH DEWATERING OPERATIONS INCLUDING SUMP PIT, DEWATERING BAG AND SHEETPILE. RESTORE DISTURBED AREAS IN ACCORDANCE WITH THE ENVIRONMENTAL COMPLIANCE NOTE ON STREAM RESTORATION AND SECTION 908 OF THE STANDARD SPECIFICATIONS. REMOVE TURBIDITY CURTAINS.

CONSTRUCTION PHASE 2:

- CONSTRUCT SHEET PILE COFFERDAM, AT THE LOCATIONS SHOWN.
- CONNECT SILT FENCE TO SHEET PILE TO COMPLETELY ENCLOSE THE WORK AREA.
- INSTALL SUMP PIT WITH R-4 RIPRAP AND DEWATERING BAG AS A SEDIMENT TRAPPING DEVICE. DEWATER THE WORK AREA IN ACCORDANCE WITH SECTION 902 OF THE STANDARD SPECIFICATIONS. ALL WORK ASSOCIATED WITH DEWATERING ACTIVITIES, INCLUDING SUMP PIT AND DEWATERING BAG SHALL BE INCIDENTAL TO ITEM 604002 - COFFERDAMS.
- PERFORM ALL CONSTRUCTION ACTIVITY ALONG THE EAST BANK AS PER PLANS, INCLUDING REMOVING EAST TIMBER FENDER SYSTEM, EAST CONCRETE REST PIER, TIMBER SPANS, TIMBER TRESTLE PIER, TIMBER ABUTMENT AND WINGWALLS, GABION SLOPE PROTECTION, CONCRETE DEADMAN ANCHOR, AND EXISTING EMBANKMENT MATERIAL, REGRADING CHANNEL, INSTALLING PROPOSED SHEETPILE WALL AND CONCRETE COPING, AND PLACING RIPRAP SLOPE PROTECTION ALONG NEW EMBANKMENT.
- CONSTRUCT EXTENSION OF BREAKWATER & JUNCTION TRAIL PER PLANS. REPAIR ANY DAMAGE TO EXISTING BREAKWATER & JUNCTION TRAIL PAVEMENT. OVERLAY EXISTING TRAIL WITH 1 1/2" TYPE C, BITUMINOUS CONCRETE AS SHOWN IN PLANS. INSTALL WOOD RAIL FENCE ALONG BREAKWATER & JUNCTION TRAIL. INSTALL DELAWARE NO. 3 STONE AND ALUMINUM FENCE AT THE FINAL BRIDGE LOCATION PER PLANS.
- REMOVE DEVICES ASSOCIATED WITH DEWATERING OPERATIONS INCLUDING SUMP PIT, DEWATERING BAG AND SHEETPILE. RESTORE DISTURBED AREAS IN ACCORDANCE WITH THE ENVIRONMENTAL COMPLIANCE NOTE ON STREAM RESTORATION.
- REMOVE TEMPORARY EROSION AND SEDIMENT CONTROL DEVICES AFTER VEGETATION HAS STABILIZED ALL DISTURBED AREAS IN ACCORDANCE WITH THESE PLANS AND AS DIRECTED BY THE ENGINEER.



LIFTING SCHEMATIC

NTS

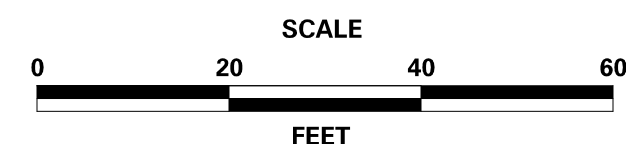
BRIDGE LIFTING NOTES:

- PROPOSED LIFTING SCHEMATIC SHOWN. CONTRACTOR SHALL SUBMIT LIFTING PLAN PER SPECIAL PROVISION 2115XX FOR APPROVAL PRIOR TO DEMOLITION OR LIFTING OPERATIONS.
- ESTIMATED WEIGHT OF THE BRIDGE WITHOUT COUNTERWEIGHT IS 138 KIPS, BASED ON EXISTING AS-BUILT PLANS. EXACT LIFTING WEIGHT OF THE BRIDGE SHALL BE DETERMINED BY THE CONTRACTOR USING HYDRAULIC JACKS (OR APPROVED EQUAL) PRIOR TO LIFTING OPERATIONS.
- PROPOSED TEMPORARY REST PIER LOCATION SHOWN. CONTRACTOR SHALL SUBMIT SHOP DRAWINGS FOR APPROVAL PRIOR TO DEMOLITION OF COUNTERWEIGHT, INCIDENTAL TO ITEM 2115XX.

| EROSION & SEDIMENT CONTROL | |
|----------------------------|------------------------------------|
| — CFL — | COMPOST FILTER LOG |
| | DEWATERING BAG |
| | DEWATERING BASIN |
| ED | EARTH DIKE |
| | INLET SEDIMENT CONTROL |
| | PERIMETER DIKE/SWALE |
| | PORTABLE SEDIMENT TANK |
| | SANDBAG DIKE |
| | SANDBAG DIVERSION |
| | STONE CHECK DAM |
| | STABILIZED CONSTRUCTION ENTRANCE |
| | SILT FENCE / LENGTH |
| — SF — | SILT FENCE |
| — RSF — | SILT FENCE - REINFORCED |
| | SUMP PIT |
| | SEDIMENT TRAP / NUMBER |
| | SEDIMENT TRAP |
| | SEDIMENT TRAP WITH INLET AS OUTLET |
| | SEDIMENT TRAP PIPE OUTLET |
| | STILLING WELL |
| | TEMPORARY SWALE |
| | TEMPORARY SLOPE DRAIN |
| | TURBIDITY CURTAIN / LENGTH |
| — T — | TURBIDITY CURTAIN |
| | SHEET PILE COFFERDAM |

| CONSTRUCTION PHASING & M.O.T | |
|------------------------------|------------------------------------|
| | BARRICADE, TYPE 3 |
| | CONCRETE SAFETY BARRIER - PORTABLE |
| | CONSTRUCTION SAFETY FENCE / LENGTH |
| — CSF — | CONSTRUCTION SAFETY FENCE |
| | CONSTRUCTION WARNING SIGN LOCATION |
| | CONSTRUCTION WARNING SIGN |
| | CRASH CUSHION ARRAY |
| | DRUM - TRAFFIC CONTROL |
| | FLAGGER LOCATION |
| | PHASING TRAFFIC FLOW ARROW |
| | TEMPORARY CONSTRUCTION |
| | TEMPORARY PAVEMENT MARKING ARROW |
| | TRUCK WITH MOUNTED ATTENUATOR |
| | WORK AREA - ACTIVE PHASE |

ADDENDA / REVISIONS



BR 3-928R OVER LEWES-REHOBOTH CANAL

| | | |
|------------|--------------|--------|
| CONTRACT | BRIDGE NO. | 3-928R |
| T201707602 | DESIGNED BY: | JWS |
| COUNTY | CHECKED BY: | DEF |
| SUSSEX | | |

CONSTRUCTION PHASING M.O.T., AND EROSION CONTROL PLAN - NOTES

| | |
|-----------|----|
| SECTION | TY |
| SHEET NO. | 30 |