



BRIDGE PERMIT

15 APR 2013

(3-13-1)

WHEREAS by Title V of an act of Congress approved August 2, 1946, entitled "General Bridge Act of 1946," as amended (33 U.S.C. 525-533), the consent of Congress was granted for the construction, maintenance and operation of bridges and approaches thereto over the navigable waters of the United States;

AND WHEREAS the Secretary of Homeland Security has delegated the authority of Section 502(b) of that act to the Commandant, U. S. Coast Guard by Department of Homeland Security Delegation Number: 0170.1;

AND WHEREAS before construction is commenced, the Commandant must approve the location and plans of any such bridge and may impose any specific conditions relating to the construction, maintenance and operation of the structure deemed necessary in the interest of public navigation, such conditions to have the force of law;

AND WHEREAS the - NEW YORK STATE THRUWAY AUTHORITY - has submitted for approval the location and plans indicating a design-build concept of a bridge to be constructed across the Hudson River between South Nyack and Tarrytown, New York;

NOW THEREFORE, This is to certify that the location and plans dated 27 December 2012 are hereby approved by the Commandant, subject to the following conditions:

1. No deviation from the approved plans may be made either before or after completion of the structure unless the modification of said plans has previously been submitted to and received the approval of the Commandant.

2. The construction of falsework, cofferdams or other obstructions, if required, shall be in accordance with plans submitted to and approved by the Commander, First Coast Guard District, prior to construction of the bridge. All work shall be so conducted that the free navigation of the waterway is not unreasonably interfered with and the present navigable depths are not impaired. Timely notice of any and all events that may affect navigation shall be given to the District Commander during construction of the bridge. The channel or channels through the structure shall be promptly cleared of all obstructions placed therein or caused by the construction of the bridge to the satisfaction of the District Commander, when in the judgment of the District Commander the construction work has reached a point where such action should be taken.

3. Issuance of this permit does not relieve the permittee of the obligation or responsibility for compliance with the provisions of any other law or regulation as may be under the jurisdiction of the U. S. Army Corps of Engineers, New York District; U. S. Department of Commerce, National Marine Fisheries Service; New York State: Department of Environmental Conservation, or any other federal, state or local authority having cognizance of any aspect of the location, construction or maintenance of said bridge.

4. Prior to commencement of construction, the permittee shall submit to the District Commander for approval, plans showing the final design chosen for the construction of the bridge. The final design chosen shall, at a minimum, provide the navigational clearances as shown on the approved plan sheet 3 (of 7) dated 27 December 2012. Failure by the permittee to adhere to any part of this condition renders this permit null and void.

5. A surface of non-sparking polyethylene panels shall be affixed to the main span piers (piers 31 and 32) and be maintained in good condition by and at the expense of the owner of the bridge. Said installation and maintenance shall be for the safety of navigation and be in accordance with plans submitted to and approved by the District Commander prior to its construction.

6. A bridge protective system shall be installed and maintained in good condition by and at the expense of the owner of the bridge when so required by the District Commander. Said installation and maintenance shall be for the safety of navigation and be in accordance with plans submitted to and approved by the District Commander prior to its construction.

7. Clearance gauges shall be installed and maintained in a good and legible condition by and at the expense of the owner of the bridge when so required by the District Commander. The type of gauges and the locations in which they are to be installed will be submitted to the District Commander for approval.

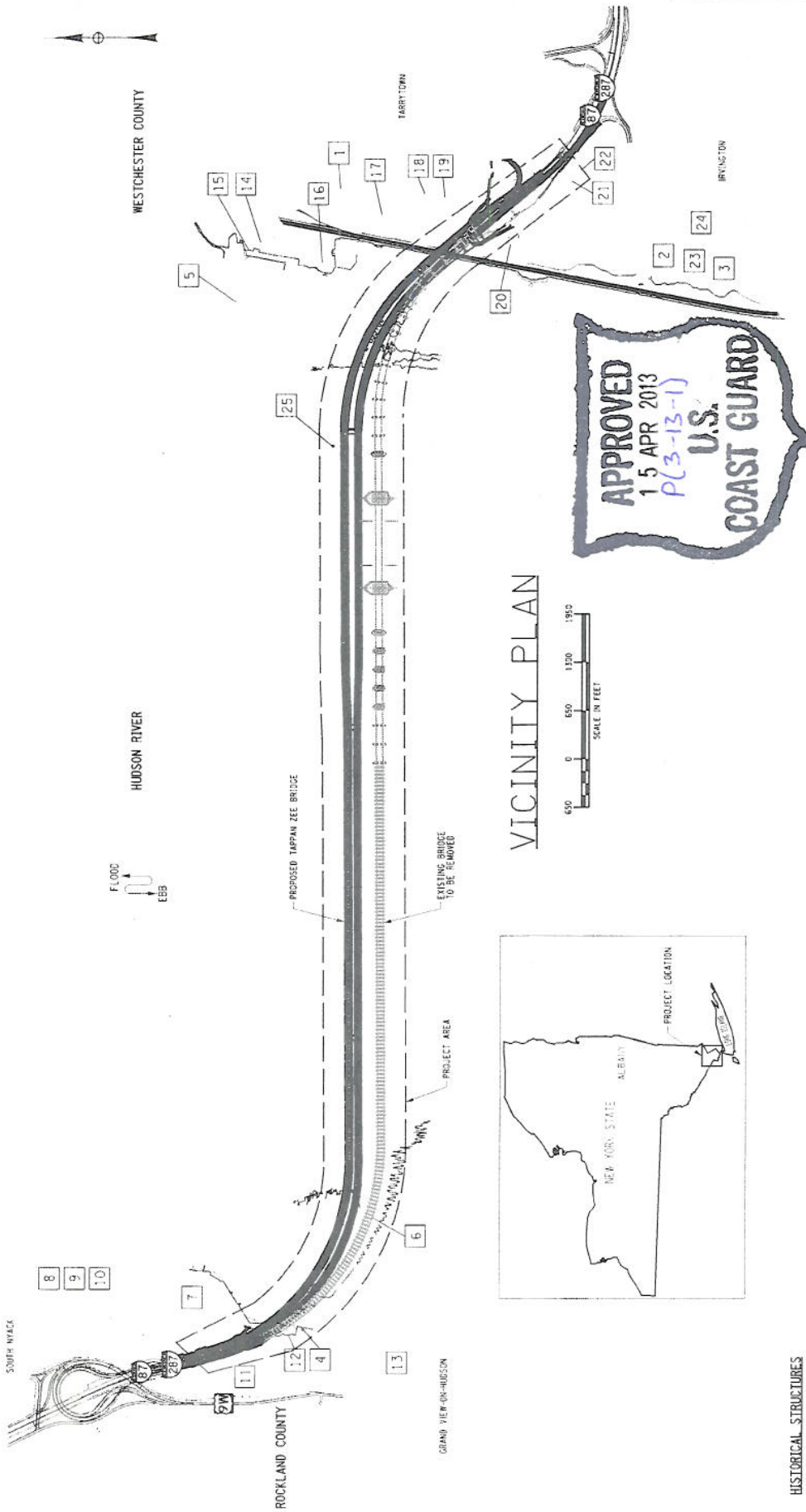
8. All parts of the existing to-be-replaced Tappan Zee Bridge across the Hudson River, mile 27.0, not utilized in the new bridge shall be removed to a minimum of two feet below the natural ground line or bottom of the waterway. The waterway shall be cleared to the satisfaction of the District Commander when in the judgment of the District Commander the construction of the new bridge, mile 27.0, has reached a point where such action should be taken.

9. When the proposed bridge is no longer used for transportation purposes, it shall be removed in its entirety or to an elevation deemed appropriate by the District Commander and the waterway cleared to the satisfaction of the District Commander. Such removal and clearance shall be completed by and at the expense of the owner of the bridge upon due notice from the District Commander.

10. The approval hereby granted shall cease and be null and void unless construction of the bridge is commenced within three years and completed within six years after the date of this permit.



Brian L. Dunn
Administrator, Office of Bridge Programs
U.S. Coast Guard
By direction of the Commandant



HISTORICAL STRUCTURES

NATIONAL HISTORICAL LANDMARK

- | | |
|---|----------------------|
| 1 | OLD CROTON AQUEDUCT |
| 2 | LYNCHBURST |
| 3 | SUNNYSIDE |
| 4 | MASSIDE CHAPEL |
| 5 | TARRYTOWN LIGHTHOUSE |

POTENTIAL S/NRHP ELIGIBLE

- | | |
|----|-------------------------------|
| 6 | TAPPAN ZEE BRIDGE |
| 7 | SOUTH NYACK HISTORIC DISTRICT |
| 8 | 129 PLEASANT AVENUE |
| 9 | 135 PLEASANT AVENUE |
| 10 | 47 PLEASANT AVENUE |
| 11 | 2 SHAYSIDE AVENUE |
| 12 | 10 TERRIS LANE |
| 13 | RIVER ROAD HISTORIC DISTRICT |

- | | |
|----|----------------------------------|
| 14 | TARRYTOWN SEWAGE TREATMENT PLANT |
| 15 | TARRYTOWN RAILROAD STATION |
| 16 | TAPPAN LANDING HISTORIC DISTRICT |
| 17 | WASHINGTON IRVING GARDENS |
| 18 | 99 WHITE PLAINS ROAD |
| 19 | 100 WHITE PLAINS ROAD |
| 20 | IRVING HISTORIC DISTRICT |
| 21 | HOPE UNITED PRESBYTERIAN CHURCH |

- | | |
|----|----------------------------------|
| 22 | GLENNVIEW PARK HISTORIC DISTRICT |
| 23 | NEW COUNTY PARK |
| 24 | SOUTH END HISTORIC DISTRICT |
| 25 | SHIPWRECK TARGET 001 |



SIGNATURE

12/31/12
DATE

TAPPAN ZEE BRIDGE
THE NEW NY BRIDGE PROJECT
(FORMERLY TAPPAN ZEE HUDSON RIVER CROSSING)

HUDSON RIVER
MILEPOINT 27

SOUTH NYACK - TARRYTOWN, NEW YORK
ROCKLAND AND WESTCHESTER COUNTIES
APPLICANT/OWNER:
NEW YORK STATE THRUWAY AUTHORITY

12/27/2012
DATE

SHEET NUMBER
1 OF 7

[illegible]

TAPPAN ZEE BRIDGE
THE NEW NY BRIDGE PROJECT
(FORMERLY TAPPAN ZEE HUDSON RIVER CROSSING)

HUDSON RIVER
MILEPOINT 27

SOUTH NYACK - TARRYTOWN, NEW YORK
ROCKLAND AND WESTCHESTER COUNTIES

APPLICANT/OWNER:
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DATE
SHEET NUMBER
2 OF 7



NOTES: 1. TANK AND 100-YARD T-BOOM ELEVATION EL. 171 MAUIBBS
2. TOTAL DRAIN MM. X EL. 1-59
3. THIS BRIDGE HAS BEEN DESIGNED IN ACCORDANCE WITH THE REQUIREMENTS
OF ASHLEY LAKE BRIDGE DESIGN SPECIFICATIONS, INCLUDING REQUIREMENTS
FOR VESSEL COLLISION (SEE SHEET 1 FOR DESIGN LOADS).
4. MAIN SPAN JOIST END PIERES ARE CONSTRUCTED OF REINFORCED CONCRETE
AND PROTECTIVE STEEL PLATE PROTECTION AND ARE PROTECTED ON ALL SIDES
WITH 3/4 IN. HIGH MOLECULAR WEIGHT POLYETHYLENE PANELS
5. 12" THICK X 3/4" HIGH X 4" WIDE ALTERNATING YELLOW AND BLACK IN COLOR.



SIGNATURE

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TAPPAN ZEE BRIDGE
THE NEW NY BRIDGE PROJECT
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MILEPOINT 27

SOUTH NYACK - TARRYTOWN, NEW YORK
ROCKLAND AND WESTCHESTER COUNTIES

APPLICANT/OWNER:
NEW YORK STATE THRUWAY AUTHORITY

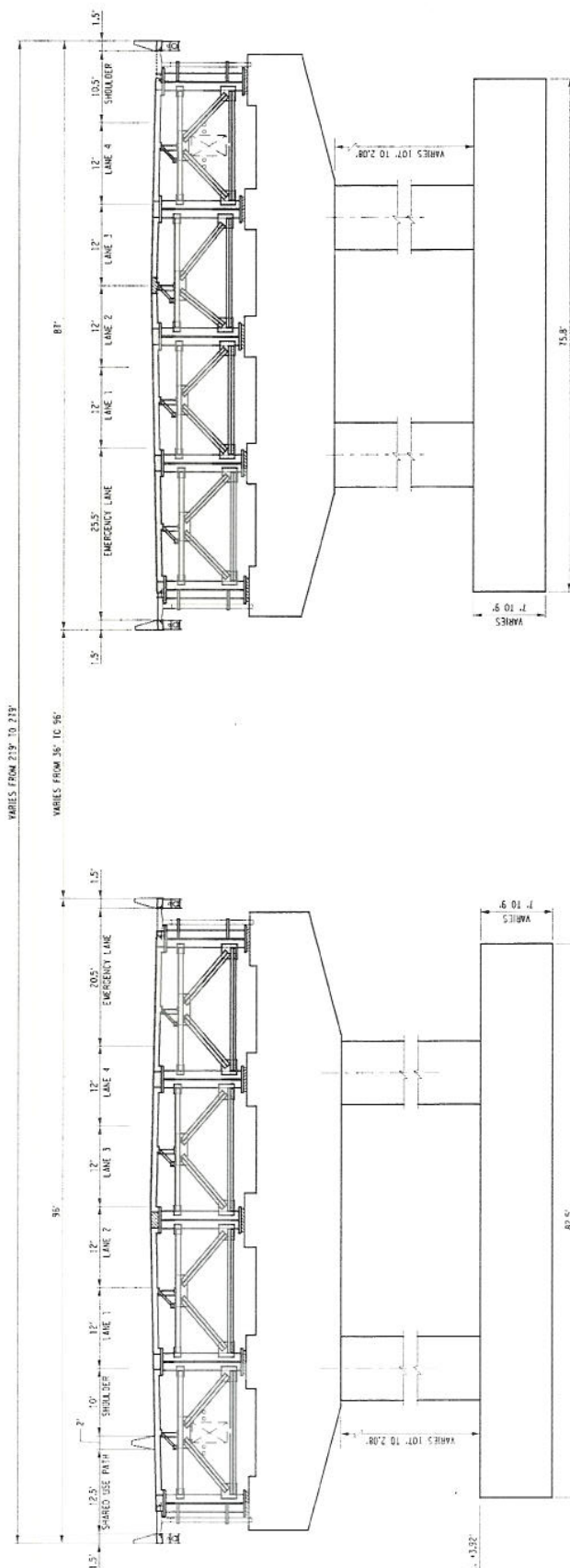
12/27/2012

DATE _____

SHEET NUMBER

3 OF 7





WESTBOUND EASTBOUND

TYPICAL APPROACH ROADWAY SECTION



NOTES:

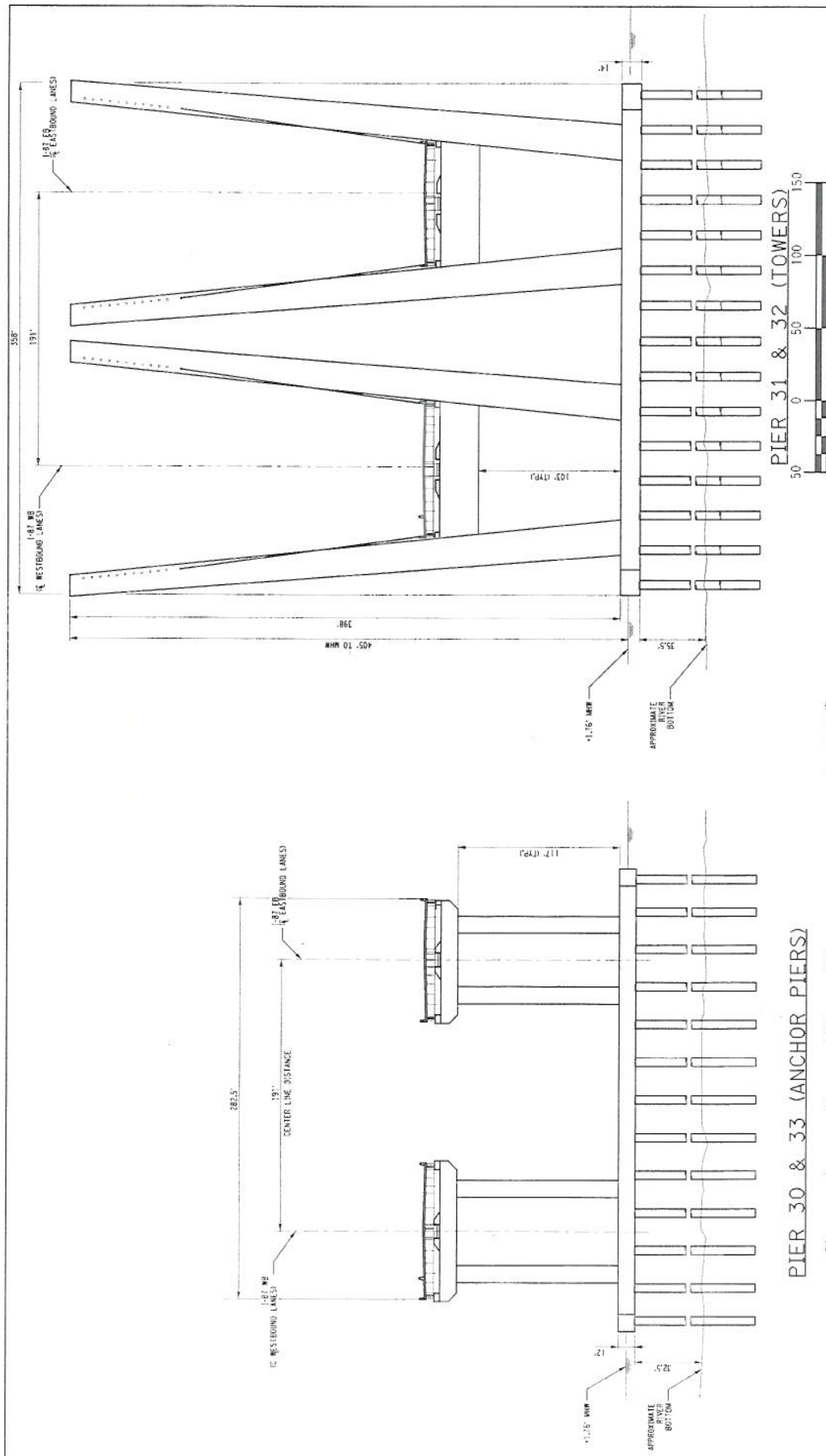
1. THIS BRIDGE HAS BEEN DESIGNED IN ACCORDANCE WITH THE REQUIREMENTS OF AASHTO LRFD BRIDGE DESIGN SPECIFICATIONS, INCLUDING REQUIREMENTS FOR VESSEL COLLISION; SEE SHEET 1 FOR DESIGN LOADS.



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TAPPAN ZEE BRIDGE
THE NEW NY BRIDGE PROJECT
(FORMERLY TAPPAN ZEE HUDSON RIVER CROSSING)

HUDSON RIVER
MILEPOINT 27
SOUTH NYACK - TARRYTOWN, NEW YORK
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12/27/2012
DATE
SHEET NUMBER
4 OF 7



PIER 30 & 33 (ANCHOR PIERS)

SCALE IN FEET

0 50 100 150

PIER 31 & 32 (TOWERS)

SCALE IN FEET

0 50 100 150

NOTES:

- THIS BRIDGE HAS BEEN DESIGNED IN ACCORDANCE WITH THE REQUIREMENTS OF AASHTO LRFD BRIDGE DESIGN SPECIFICATIONS, INCLUDING REQUIREMENTS FOR VESSEL COLLISION. SEE SHEET 1 FOR DESIGN LOADS.
- MAIN SPAN PIER CAP EXTENDS 2.2' BELOW M.W. TO PROVIDE GREATER THAN 2 FEET DEPTH WITHIN WATER.
- TOTAL DATUM: M.W. = EL. -1.69' (NAV/DBB)
- MAIN SPAN ROADWAY AND SHOULDER DIMENSIONS ARE THE SAME DIMENSIONS AS SHOWN ON SHEET 5, TYPICAL APPROACH ROADWAY SECTIONS.

APPROVED
15 APR 2013
P(3-13-1)
U.S. COAST GUARD

TAPPAN ZEE BRIDGE
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MILEPOINT 27

SOUTH NYACK - TARRYTOWN, NEW YORK
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SIGNATURE
[Signature]

DATE
12/31/12

12/27/2012
DATE

SHEET NUMBER
5 OF 7

[illegible]

NOTES

1. INSTA NORTH DOCK TO BE SUPPORTED ON PILLS AND CONNECTED TO BRIDGE PILES.



SIGNATURE

DATE 1/10/2013

TAPPAN ZEE BRIDGE
THE NEW NY BRIDGE PROJECT
(FORMERLY TAPPAN ZEE HUDSON RIVER CROSSING)

HUDSON RIVER
MILEPOINT 27

SOUTH NYACK - TARRYTOWN, NEW YORK
ROCKLAND AND WESTCHESTER COUNTIES

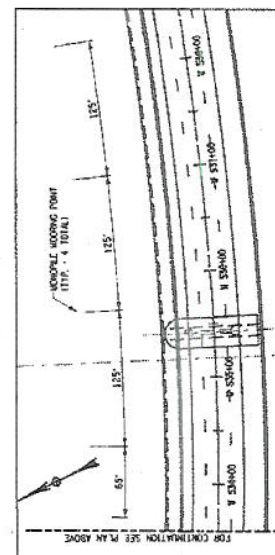
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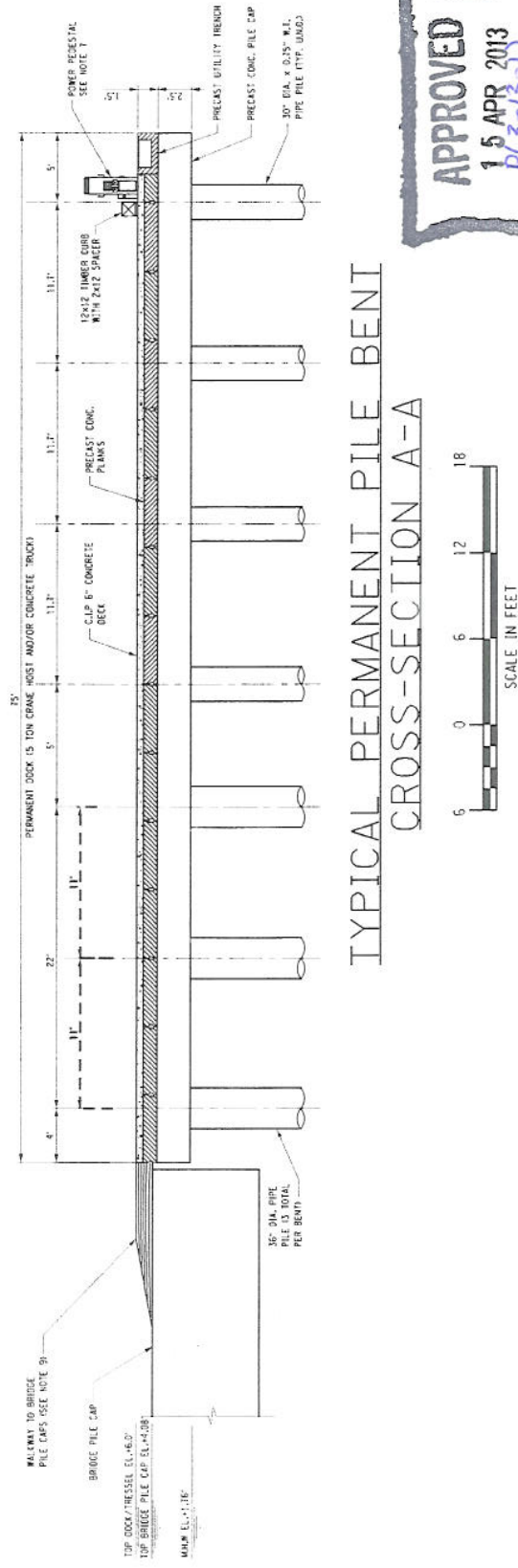
12/27/2012

DATE _____

SHEET NUMBER

6 OF 7





TYPICAL PERMANENT PILE BENT CROSS-SECTION A-A



- NOTES:
- ELEVATIONS REFERENCE NAVD83.
 - PILE CAP TO BE PRECAST 30"x48" PRECAST CONCRETE.
 - PRECAST PLANKS TO BE 12" THICK WITH 6" STRUCTURAL TOPPING FOR DECK.
 - PILE CAPACITY: ALLOWABLE = 235 TONS
ULTIMATE = 705 TONS SF=3
 - SECTION FOR PIER BETWEEN STATIONS 525+0 TO 540+0.
 - LENGTH OF PILE 180' LONG.
 - 25' BENT SPACING.
 - POWER PEDESTALS SHALL BE ADMIRAL-SS 14 INCH MODEL AS MANUFACTURED BY MARINA POWER AND LIGHTING, INC. (800-723-8009). POWER PEDESTALS SHALL BE INSTALLED AT 100 FOOT SPACING ALONG THE PIER AND AT THE HEAD OF EACH VESSEL SLIP. 18 PEDESTALS ARE ESTIMATED.
 - NYSTA NORTH DOCK TO BE SUPPORTED ON PILES AND CONNECTED TO BRIDGE PIERS.



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7 OF 7