



Howard P. Milstein
Chairman

New York State Thruway Authority
New York State Canal Corporation

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Albany, New York 12201-0189
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(518) 436-2700



Thomas J. Madison, Jr.
Executive Director

January 3, 2013

Mr. John Ferguson
New York State Department of Environmental Conservation
625 Broadway
Albany, NY 12233

Re: NYSDEC Permit No. 3-9903-00043/00011 New NY Bridge Project (formerly known as the Tappan Zee Hudson River Crossing Project) Supplement to the March 26, 2012 Joint Permit Application: Revised Design Drawings

Dear Mr. Ferguson:

On behalf of the New York State Thruway Authority (NYSTA), attached is supplemental information for the New NY Bridge Project (formerly known as the Tappan Zee Hudson River Crossing Project). The attached drawings supersede those included in Attachment 4 under cover of the December 17, 2012 Supplement to the March 26, 2012 Joint Permit Application. Since the December 17, 2012 submission, the design plans have been refined. The differences between the design plans submitted in the December 17, 2012 submission and those included under cover of this letter include the following:

- The bulkhead design, as shown on Sheet 7 of 15, has been revised to eliminate any fill.
- The Permanent North Dock shown on Sheet 7 of 15 has been reduced to 106,435 square feet (2.44 acres) from 150,000 square feet (3.44 acres), as shown on previous drawings.
- The Temporary Rockland County Trestle deck totals have been recalculated to reflect 144,140 square feet (3.31 acres). This includes the area that will become the Temporary North Trestle (88,440 square feet [2.03 acres]), the Temporary Walkway (5,700 square feet [0.13 acres]), and the Temporary South Trestle (50,000 square feet [1.15 acres]). This total area represents an increase of 2.48 acres of temporary overwater coverage from the area shown on the previous drawings. Although the total overwater platform coverage would be more than the previous drawings, the revised design is less than what was originally estimated for the Replacement Bridge Alternative as presented in the July 2012 Final Environmental Impact Statement (FEIS).

The total overwater platform acreage for both temporary and permanent platforms combined has been reduced to 9.13 acres from 12.57 acres as identified in the FEIS.

- The Temporary Rockland Bridge Staging Area dock remains the same as identified in the previous drawings.
- The Temporary Westchester North and South Trestle acreages remain the same as identified in the previous drawings.
- The amount of armoring has been reduced from the volume that was presented on previous drawings. As shown on Sheet 10 of 15, the armoring volume has been reduced to 0.36 million cubic yards from the 0.65 acres shown in the previous drawings and the 0.56 million cubic yards evaluated in the FEIS.

The attached drawings and revised impact tables are also being submitted to the New York State Department of State (NYSDOS) for an updated consistency review under the New York State Coastal Management Act.

Should you have any questions or require additional information, please do not hesitate to contact me at Elizabeth.Novak@thruway.ny.gov or (518) 436-3190.

Sincerely,



Elizabeth K. Novak

Attachments:

Attachment 1: JPA Drawings

Attachment 2: Revised Impact Tables

cc: M. Toni and J. Burns (FHWA); P. Casper and M. Shamma (NYSTA); M. Anderson and K. Edwards (NYSDOT); J. Zappieri (NYSDOS); E. McTiernan (NYSDEC); R. Conway (AKRF); D. Paget and A. Stolorow (SPR)

List of Attachments

Attachment 1: JPA Drawings

Attachment 2: Revised Impact Tables

Attachment 1: JPA Drawings

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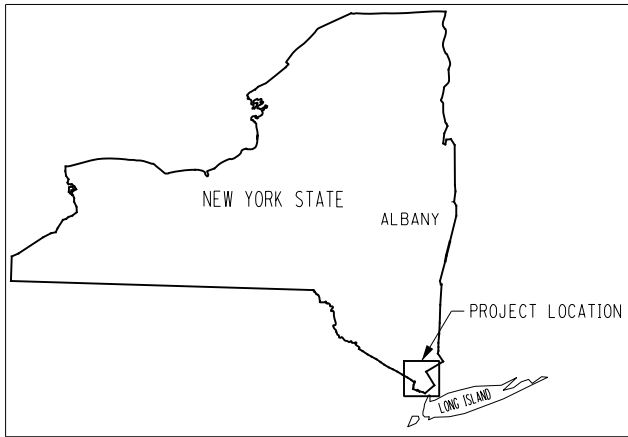
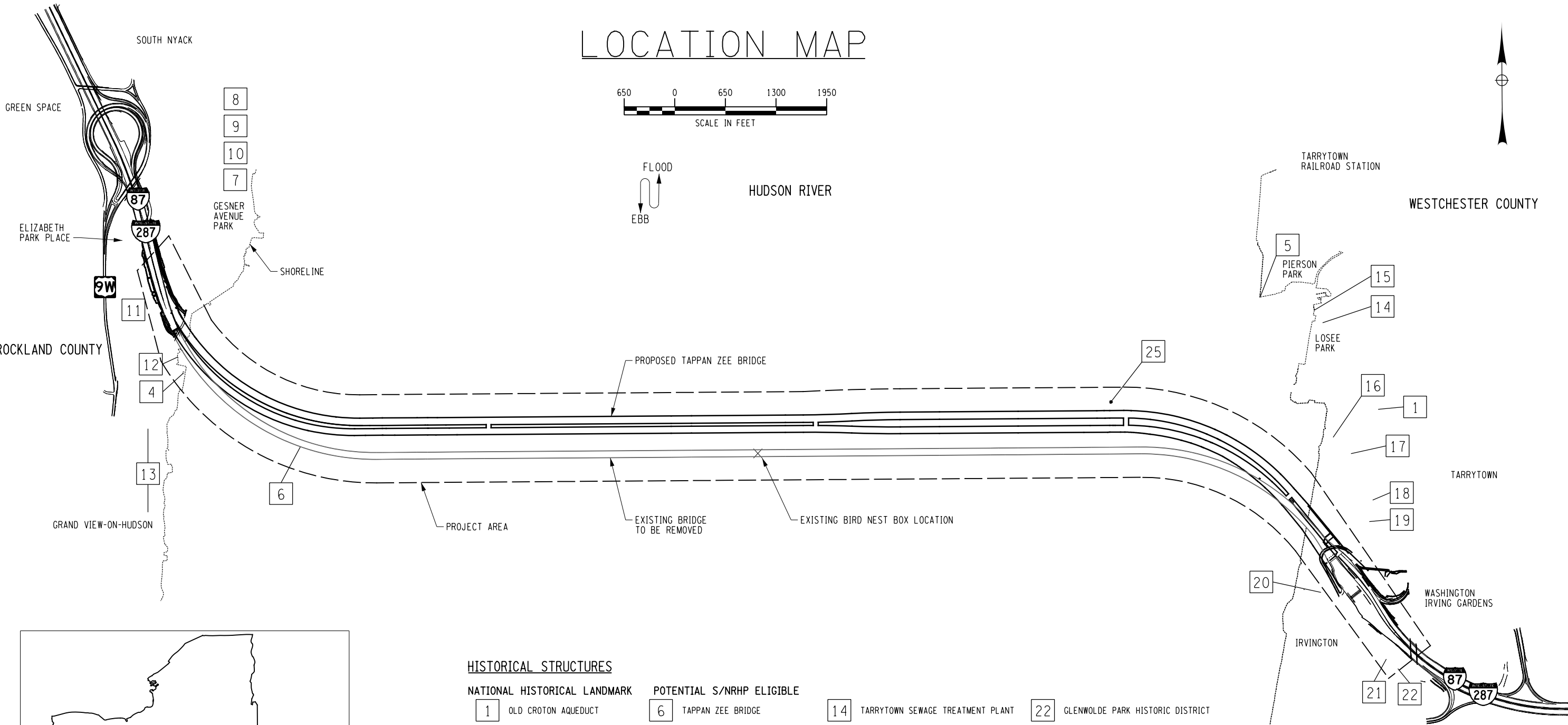
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DESIGN

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HISTORICAL STRUCTURES

NATIONAL HISTORICAL LANDMARK

- 1 OLD CROTON AQUEDUCT
- 2 LYNDHURST
- 3 SUNNYSIDE

S/NRHP LISTED

- 4 WAYSIDE CHAPEL
- 5 TARRYTOWN LIGHTHOUSE

POTENTIAL S/NRHP ELIGIBLE

- 6 TAPPAN ZEE BRIDGE
- 7 SOUTH NYACK HISTORIC DISTRICT
- 8 129 PIEMONT AVENUE
- 9 135 PIEMONT AVENUE
- 10 147 PIEMONT AVENUE
- 11 2 SHADYSIDE AVENUE
- 12 10 FERRIS 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 GLENWOLDE PARK HISTORIC DISTRICT
- 23 NEW COUNTY PARK
- 24 SOUTH END HISTORIC DISTRICT
- 25 SHIPWRECK TARGET 001

NOTES:
1. BIRD NEST BOX TO BE RELOCATED PER PERMIT CONDITIONS.



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SIGNATURE	DATE	TAPPAN ZEE BRIDGE	ALL DIMENSIONS IN ft UNLESS OTHERWISE NOTED	CONTRACT NUMBER	
		HUDSON RIVER, MILEPOINT 27			
		SOUTH NYACK-TARRYTOWN, NEW YORK		SHEET NO.	1 OF 15
		ROCKLAND AND WESTCHESTER COUNTIES			

NEW YORK STATE DEPARTMENT OF TRANSPORTATION REGION
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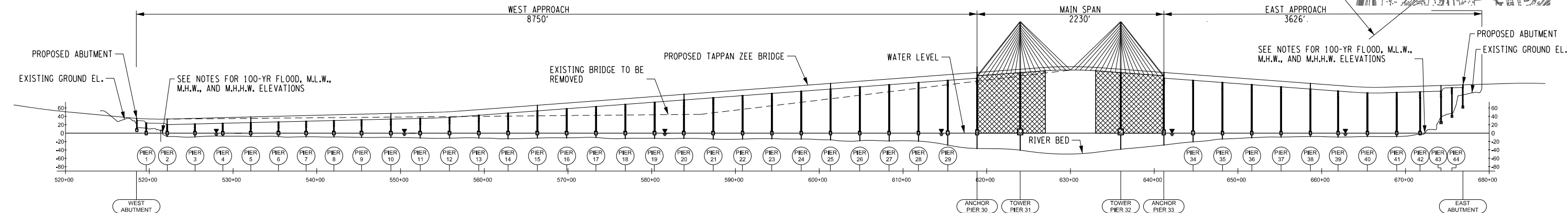
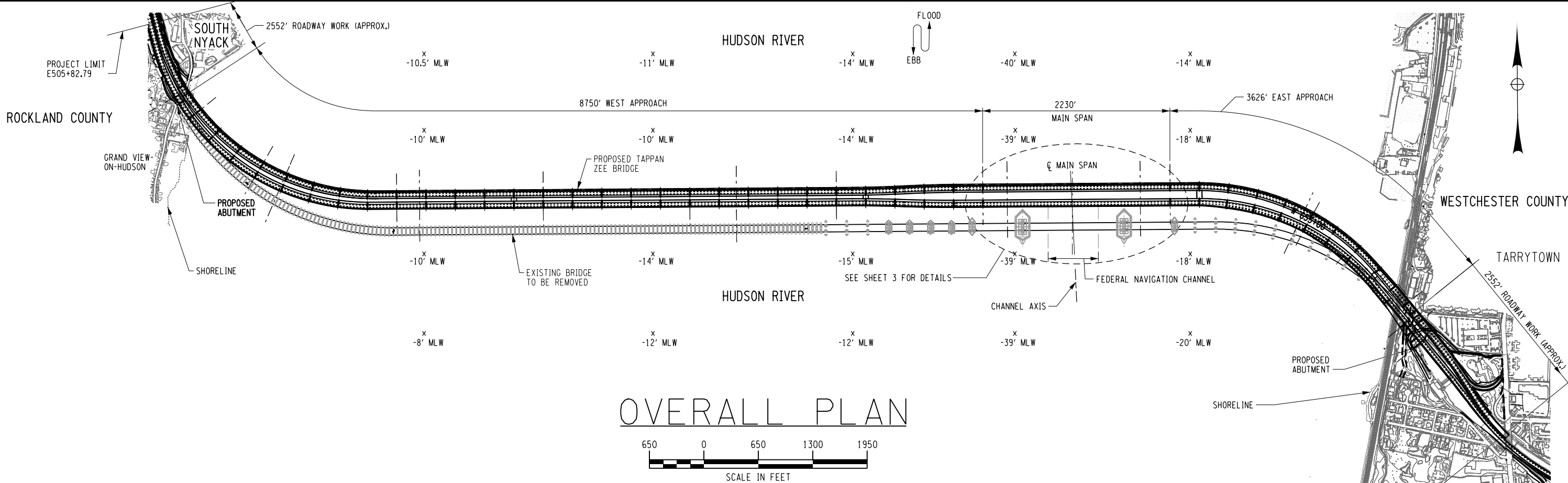
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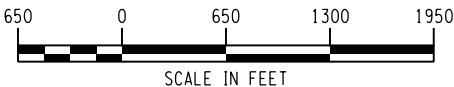
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NOTES:

1. HORIZONTAL DATUM: NAD83
2. VERTICAL DATUM: NAVD88
3. TIDAL DATUM:
M.L.W. = EL. -1.69'
M.H.W. = EL. +1.76'
M.H.H.W. = EL. +2.02'
4. WIDTH OF APPROACH STRUCTURE: VARIES (219' TO 279')
5. WIDTH OF MAIN SPAN STRUCTURE 279'
6. FEMA MAP 100-YEAR FLOOD ELEVATION: EL. 7' NAVD88
7. REMOVE TO 2 FEET BELOW MUDLINE: ALL WOOD PILE-SUPPORTED PIERS AND CAISSON-SUPPORTED PIERS
8. REMOVE TO 2 FEET BELOW GRADE: ALL LAND-BASED PIERS AND ABUTMENTS
9. SPOT SOUNDINGS ARE BASED ON HYDROGRAPHIC SURVEY DATED JANUARY 2012, PREPARED BY S.T. HUDSON ENGINEERING.

OVERALL ELEVATION



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		HUDSON RIVER, MILEPOINT 27		D214134	
		SOUTH NYACK-TARRYTOWN, NEW YORK		SHEET NO.	
		ROCKLAND AND WESTCHESTER COUNTIES		2 OF 15	

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JOB MANAGER

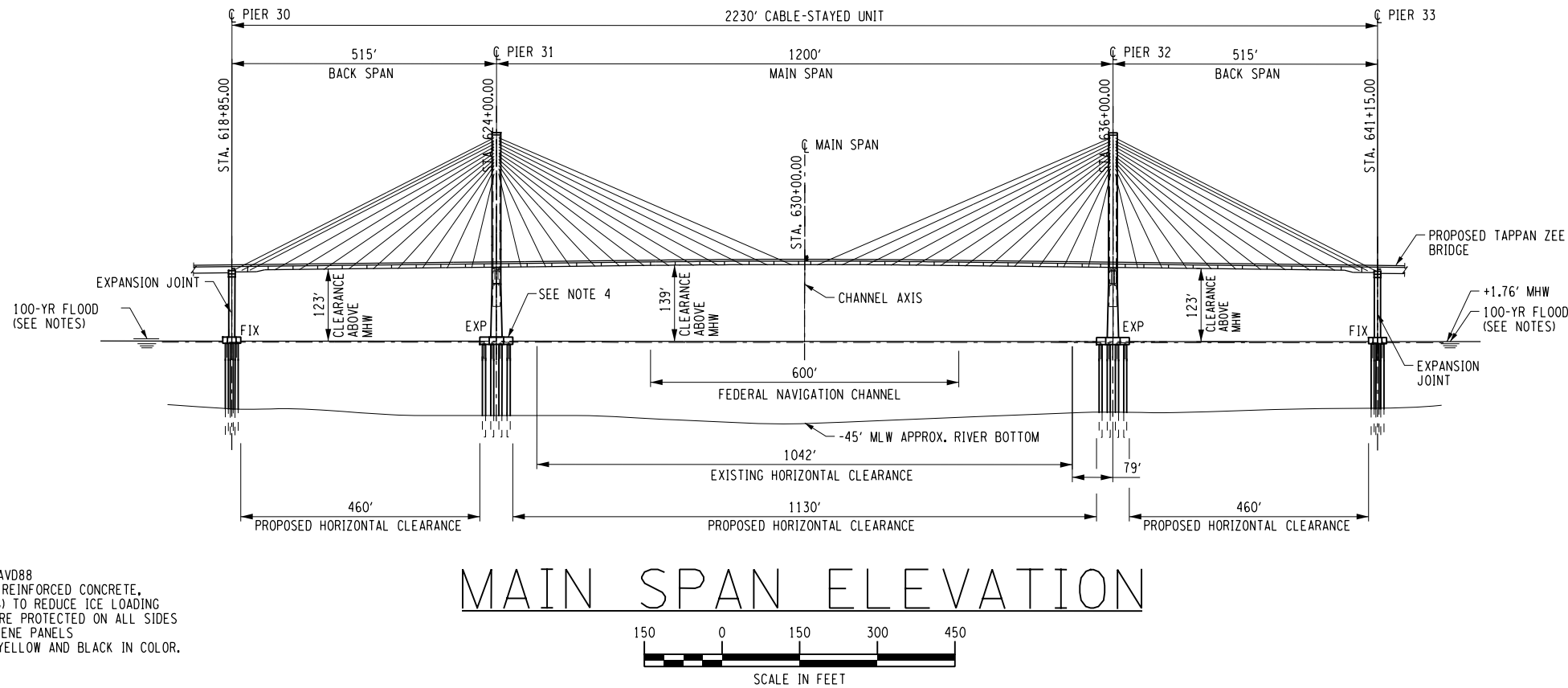
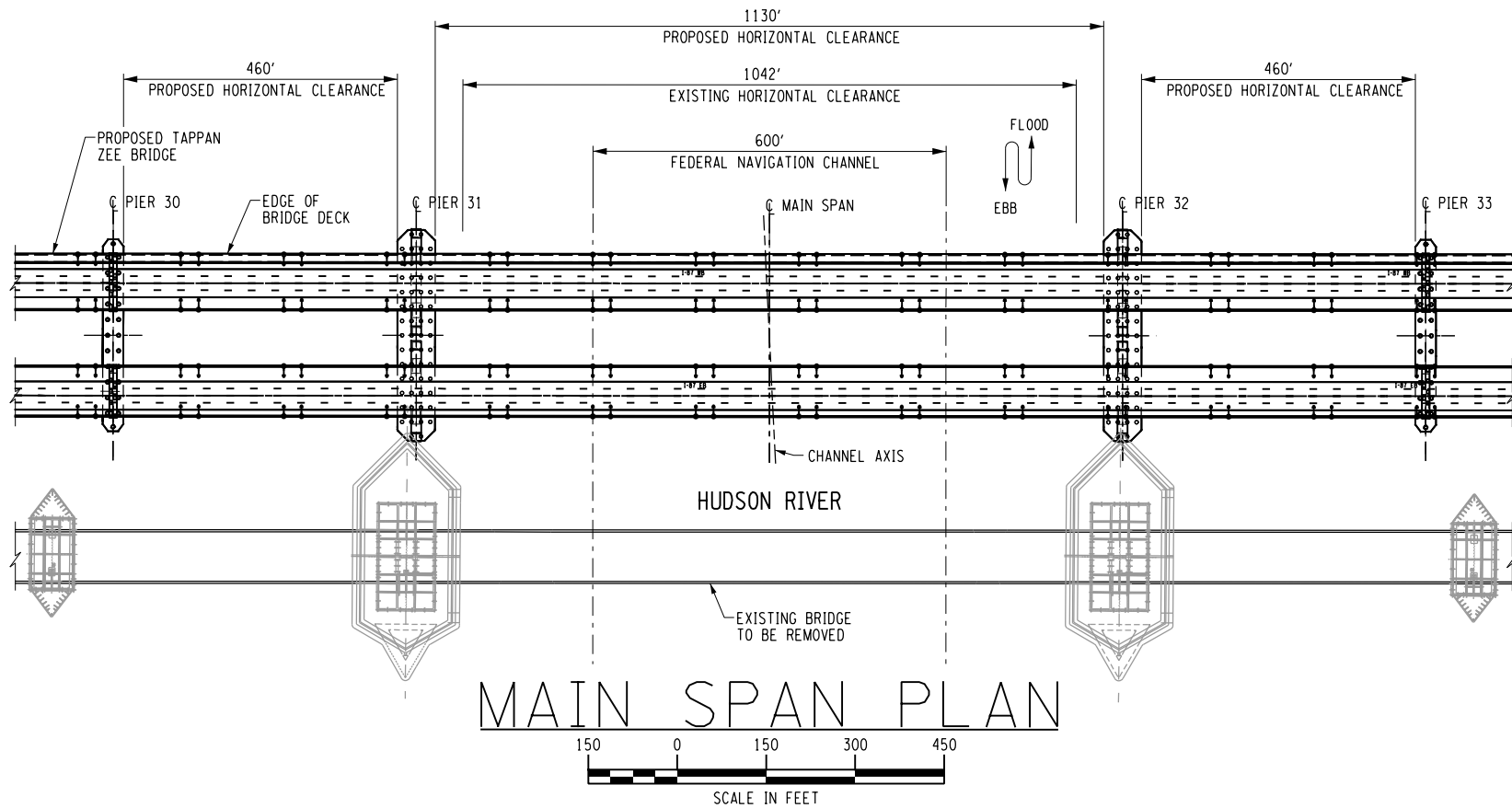
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- NOTES:
1. FEMA MAP 100-YEAR FLOOD ELEVATION EL. 7' NAVD88
 2. MAIN SPAN ANCHOR PIERS ARE CONSTRUCTED OF REINFORCED CONCRETE, HAVE THREE SIDED NOSES (NORTH & SOUTH ENDS) TO REDUCE ICE LOADING AND PROVIDE VESSEL IMPACT PROTECTION AND ARE PROTECTED ON ALL SIDES WITH ULTRA HIGH MOLECULAR WEIGHT POLYETHYLENE PANELS (2" THICK x 11' HIGH x 4' WIDE) ALTERNATING YELLOW AND BLACK IN COLOR.



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TAPPAN ZEE BRIDGE
HUDSON RIVER, MILEPOINT 27
SOUTH NYACK-TARRYTOWN, NEW YORK
ROCKLAND AND WESTCHESTER COUNTIES

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CONTRACT NUMBER

D214134

MAIN SPAN PLAN AND ELEVATION

SHEET NO. 3 OF 15

NEW YORK STATE DEPARTMENT OF TRANSPORTATION REGION
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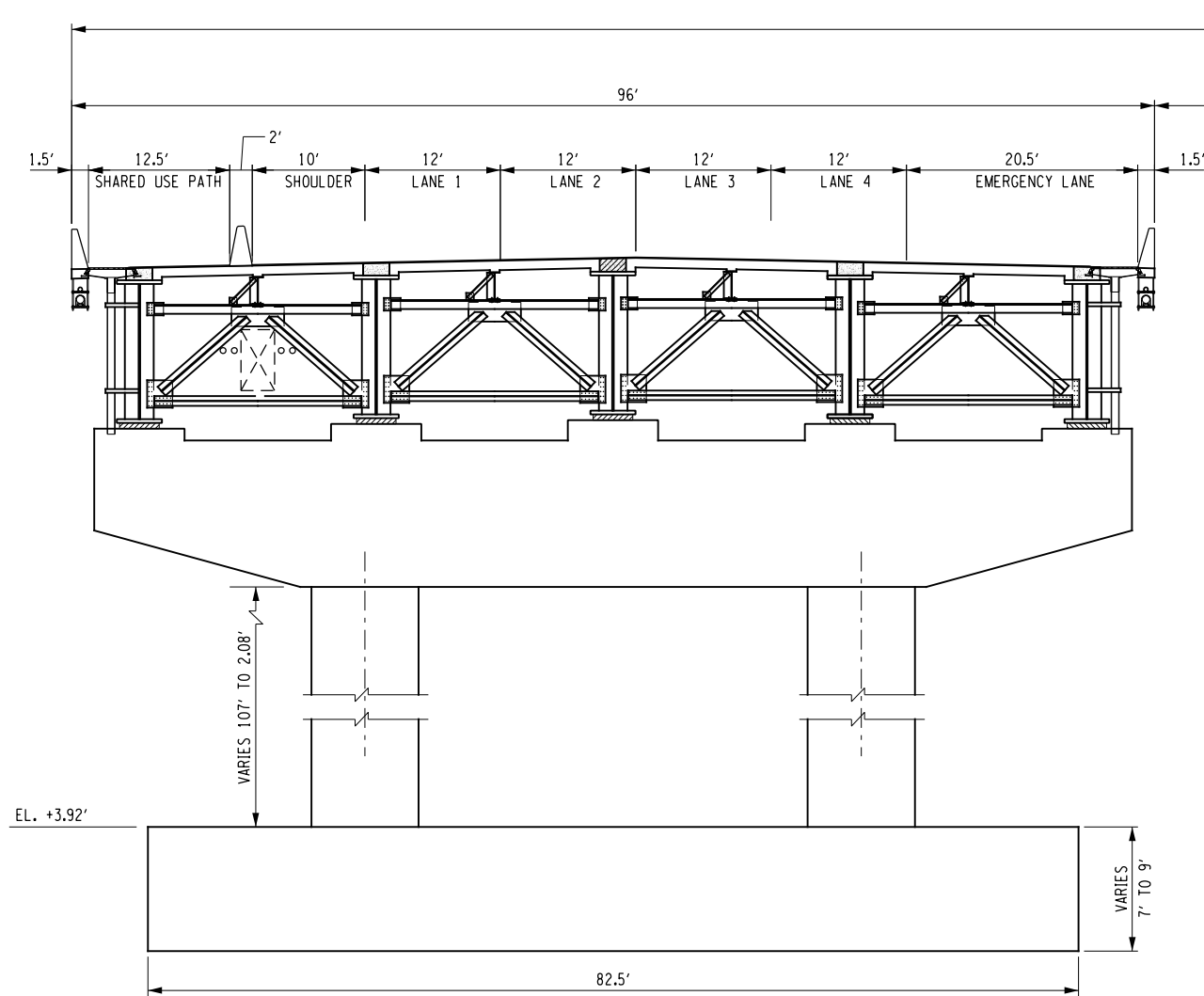
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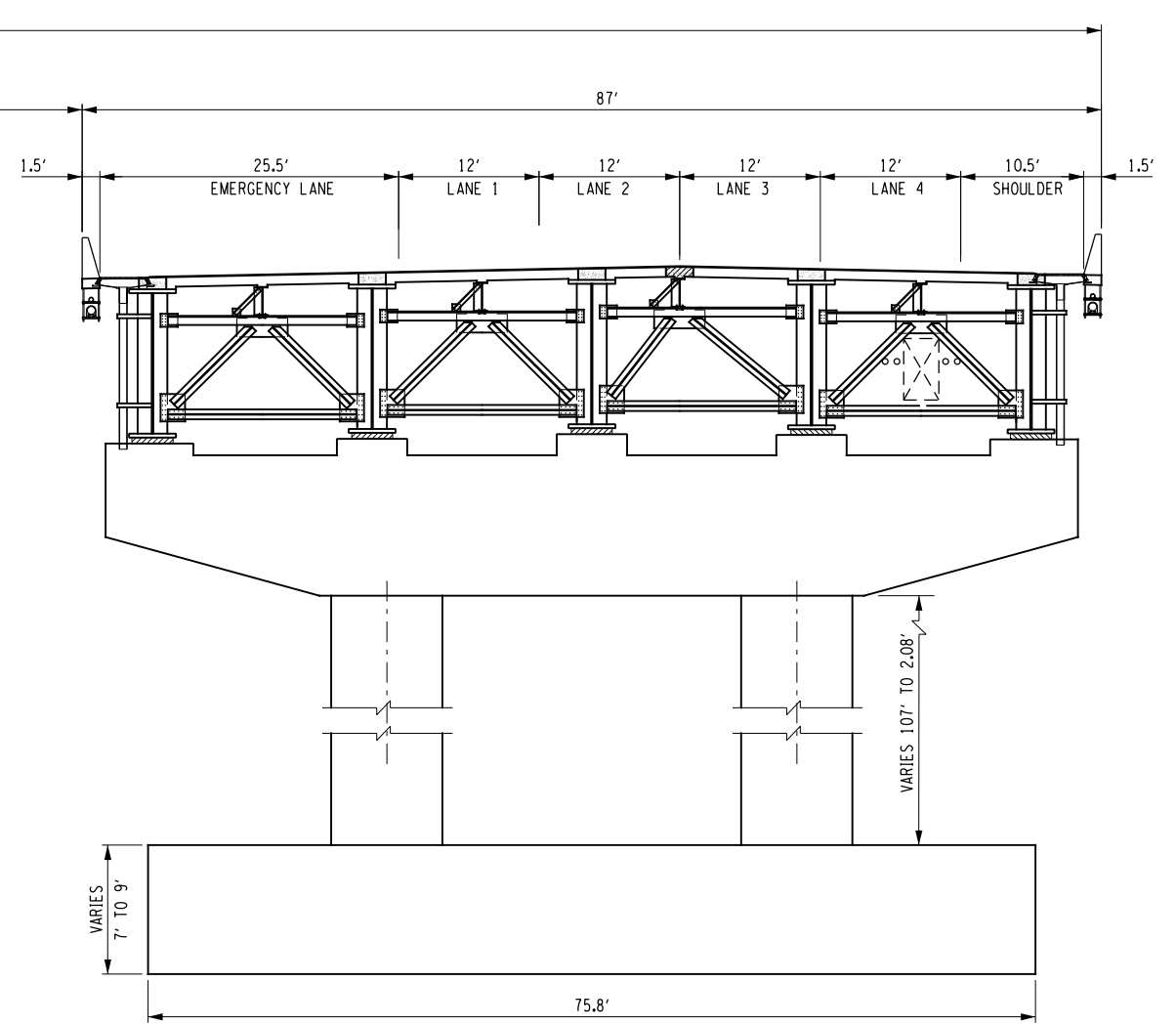
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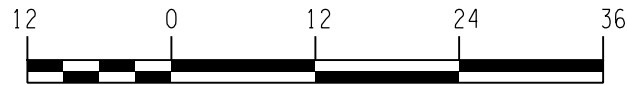


WESTBOUND



EASTBOUND

TYPICAL APPROACH ROADWAY SECTION



SCALE IN FEET



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TYPICAL ROADWAY SECTION

CONTRACT NUMBER

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SHEET NO. 4 OF 15

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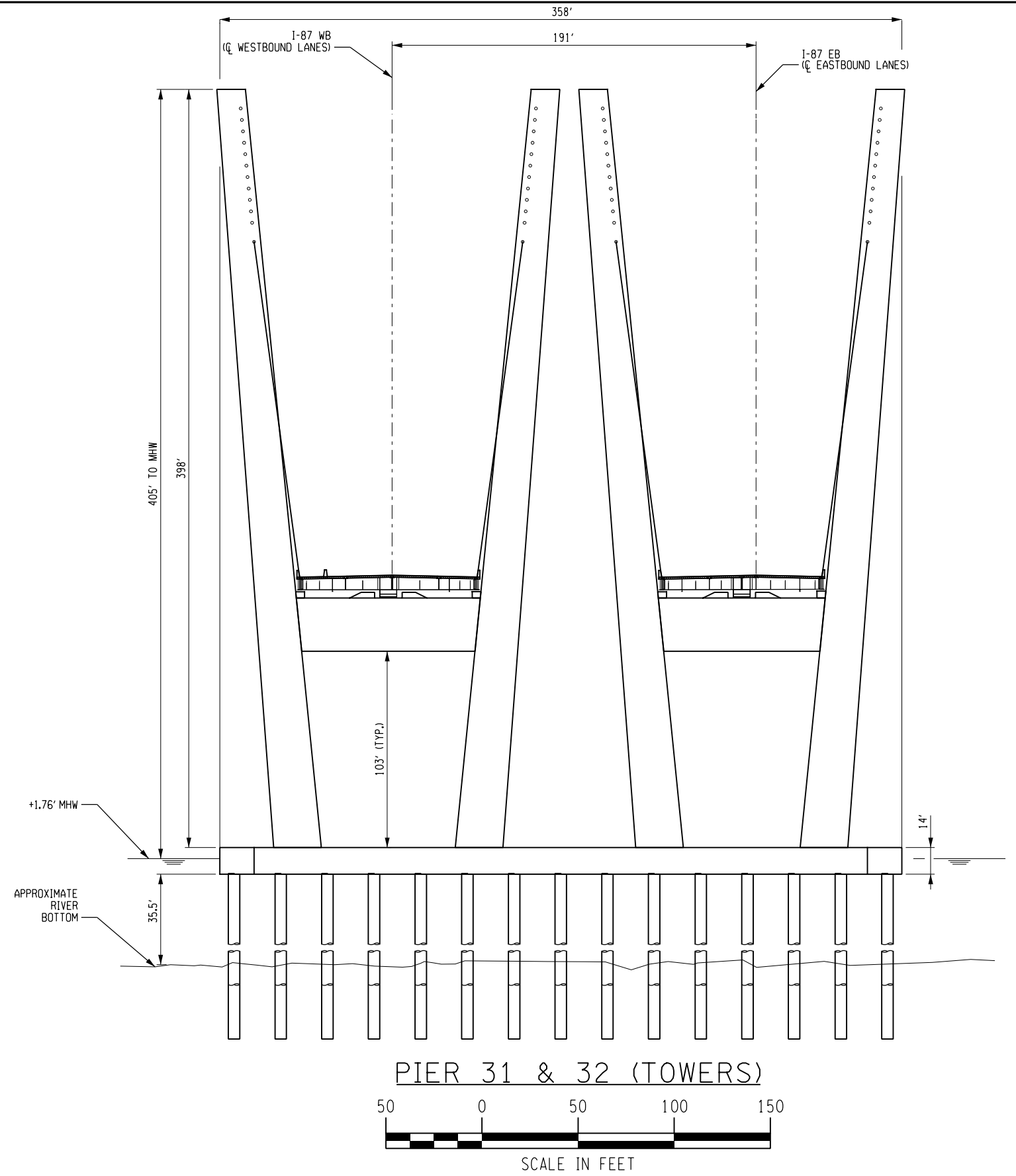
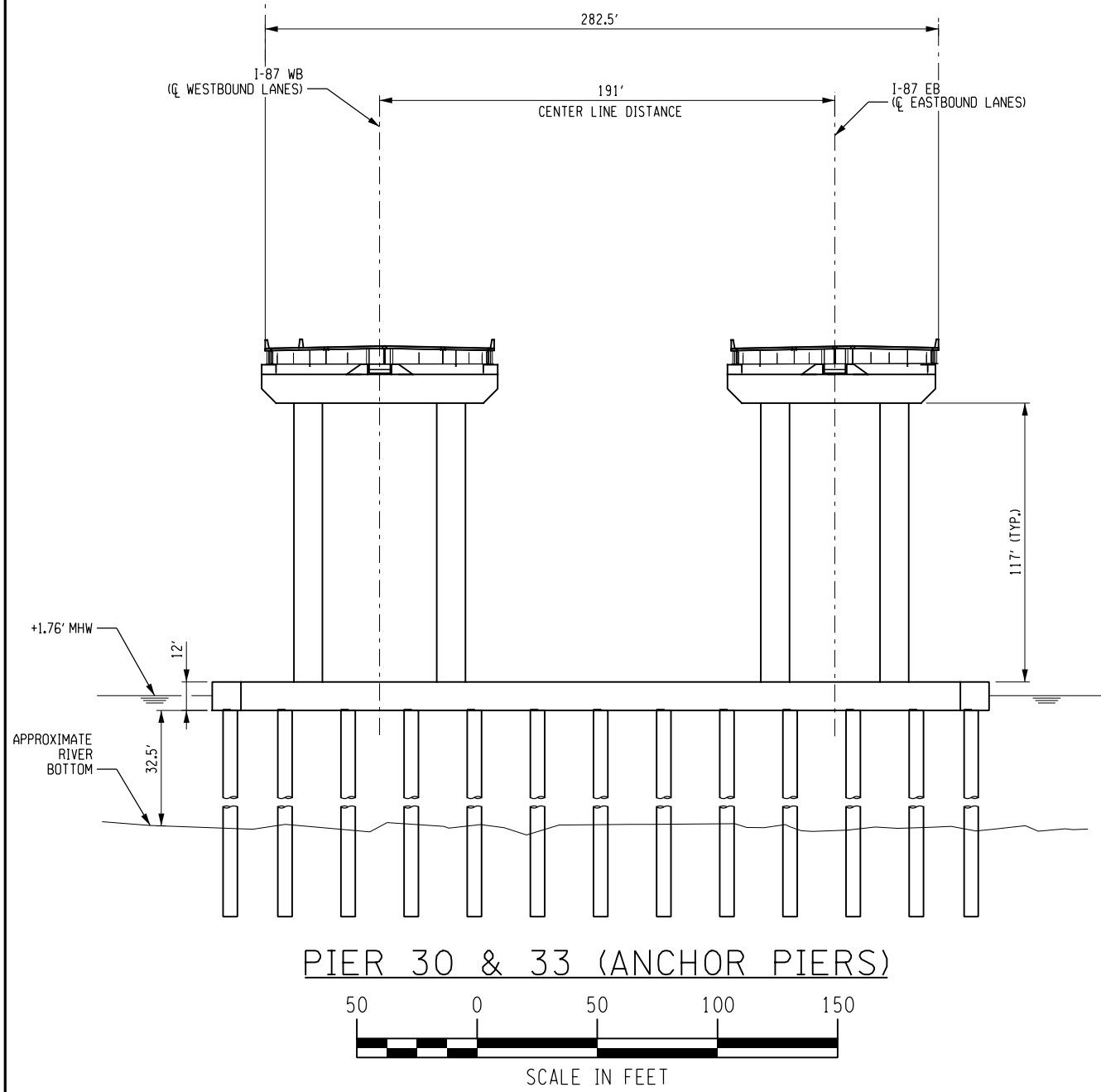
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NOTES:

1. MAIN SPAN ROADWAY AND SHOULDER DIMENSIONS ARE THE SAME DIMENSIONS AS SHOWN ON SHEET 4, TYPICAL APPROACH ROADWAY SECTIONS.



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ANCHOR PIERS AND TOWER SECTION

CONTRACT NUMBER

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SHEET NO. 5 OF 15

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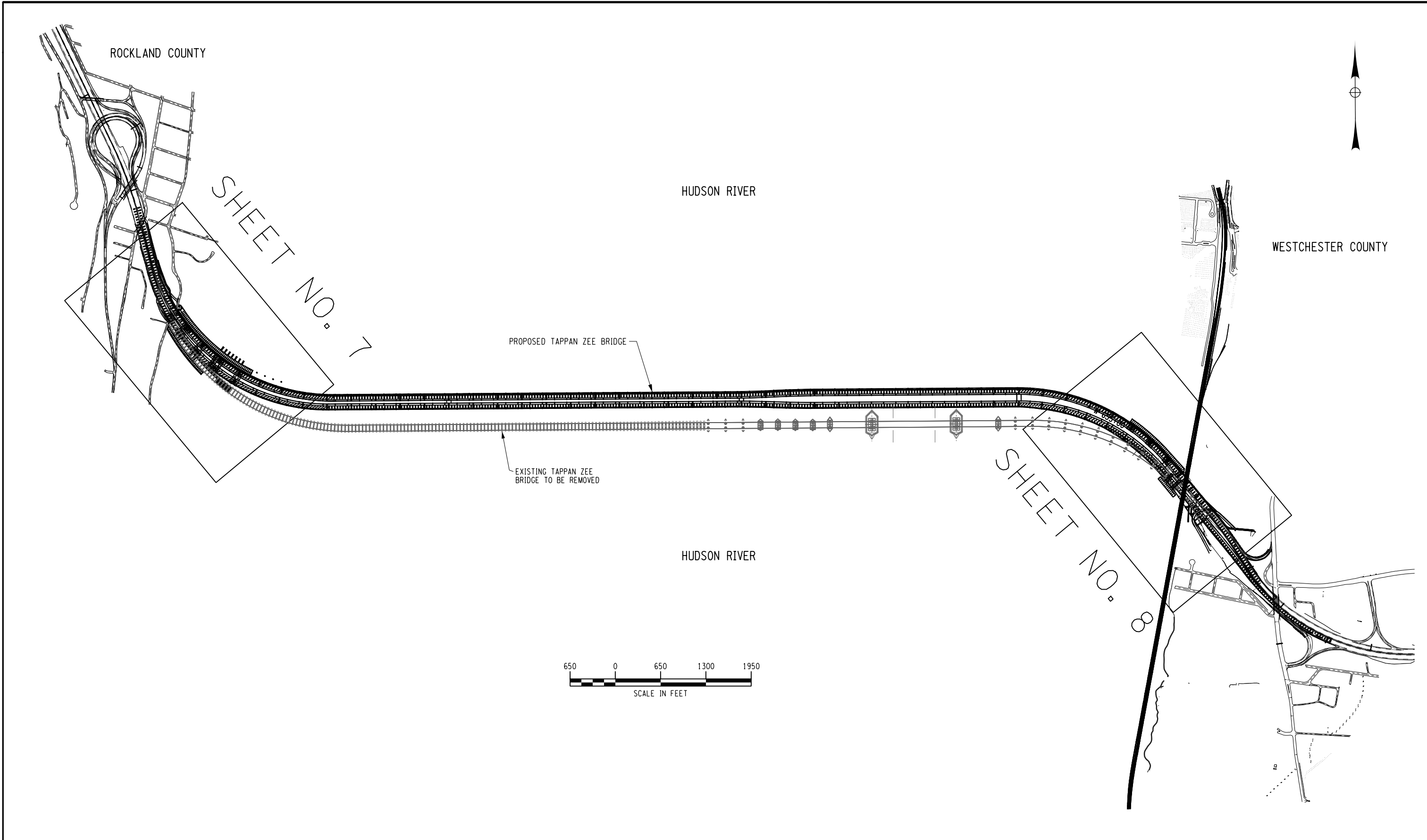
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HUDSON RIVER, MILEPOINT 27
SOUTH NYACK-TARRYTOWN, NEW YORK
ROCKLAND AND WESTCHESTER COUNTIES

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ALL DIMENSIONS IN ft UNLESS OTHERWISE NOTED
LANDING OVERALL PLAN VIEW

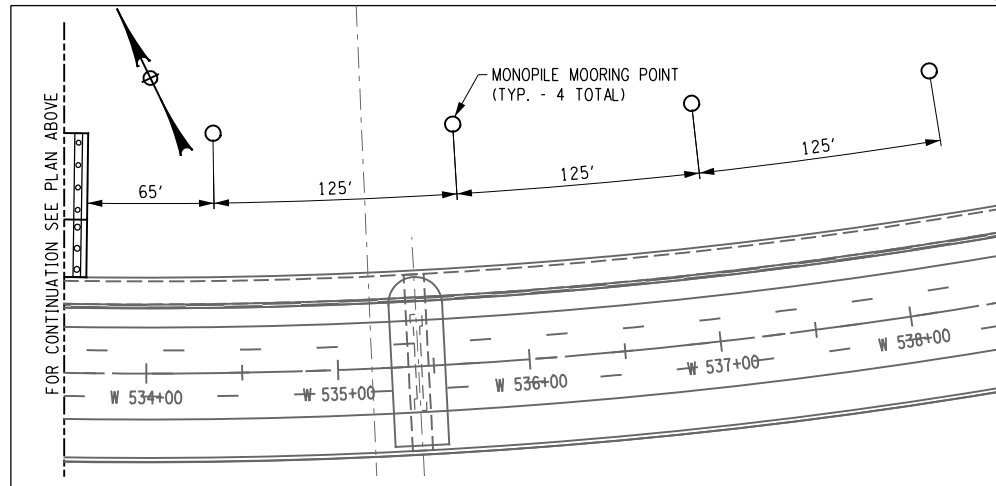
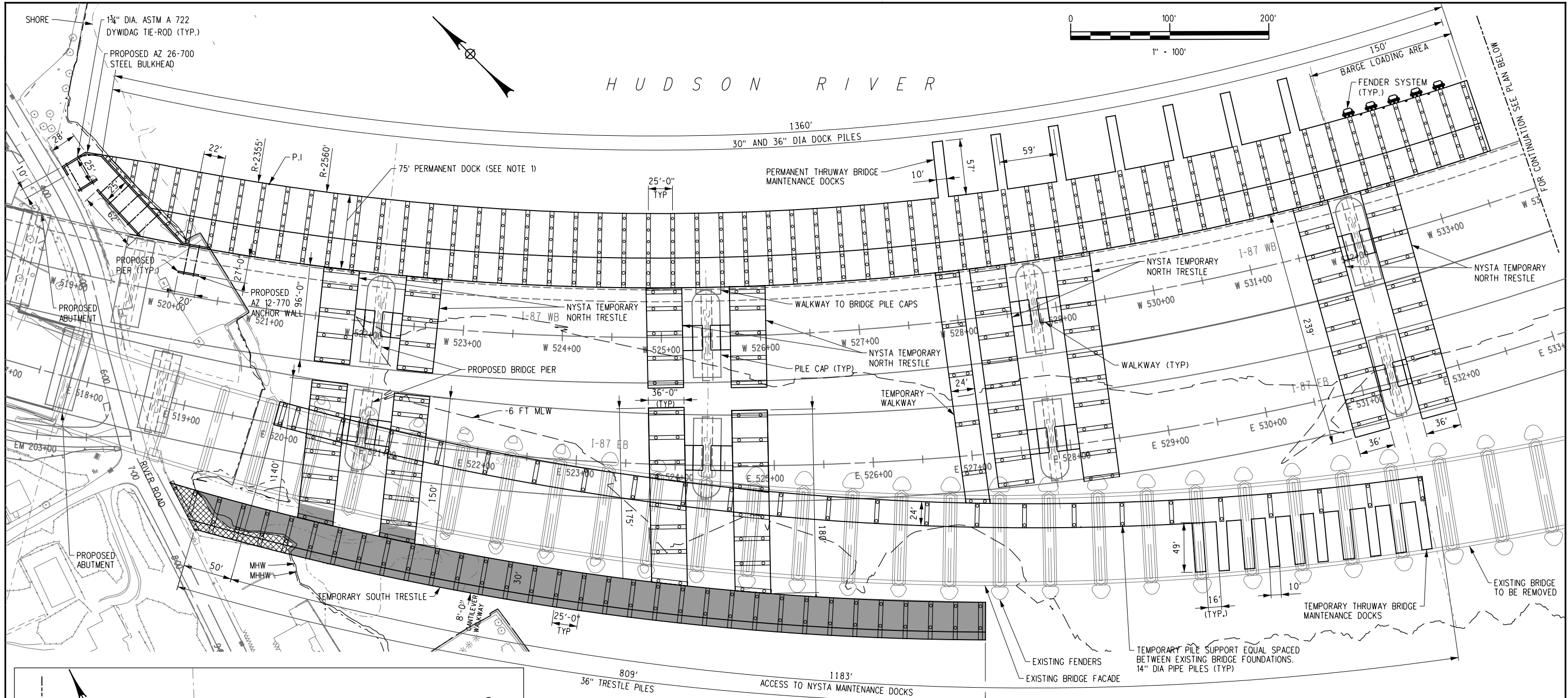
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- LEGEND:
- MHHW = EL. +2.02' (NAVD88)
 - MHHW = EL. +1.76' (NAVD88)
 - -6 FT MLW = EL. -7.69' (NAVD88)
 - AREA IN NYSDEC TIDAL WETLANDS
 - ▨ NYSDEC TIDAL WETLANDS ADJACENT AREA

- NOTES:
1. NYSTA NORTH DOCK TO BE SUPPORTED ON PILES AND CONNECTED TO BRIDGE PIERS.

TOTAL ESTIMATED TRESTLE QUANTITY INFORMATION TABLE				
	DIAMETER PILES			DECK AREA (SQ. FT.)
	36"	30"	14"	
NYSTA PERMANENT NORTH DOCK	169	235		106,435
NYSTA TEMPORARY NORTH TRESTLE	120			88,440
TEMPORARY WALKWAY	12			5,700
TEMPORARY SOUTH TRESTLE	131	50		50,000
NYSTA TEMPORARY DOCK			53	35,000

ESTIMATED QUANTITY IN NYSDEC TIDAL WETLANDS			
	DIAMETER PILES		
	36"	30"	14"
TEMPORARY SOUTH TRESTLE	64		
		452	30,500

ESTIMATED QUANTITY IN NYSDEC TIDAL WETLANDS ADJACENT AREA			
	DIAMETER PILES		
	36"	30"	14"
TEMPORARY SOUTH TRESTLE	7		
		49	220

TAPPAN ZEE BRIDGE
HUDSON RIVER, MILEPOINT 27
SOUTH NYACK-TARRYTOWN, NEW YORK
ROCKLAND AND WESTCHESTER COUNTIES

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ALL DIMENSIONS IN FT UNLESS OTHERWISE NOTED
ROCKLAND COUNTY LANDING
CONTRACT NUMBER 0214134
SHEET NO. 7 OF 15

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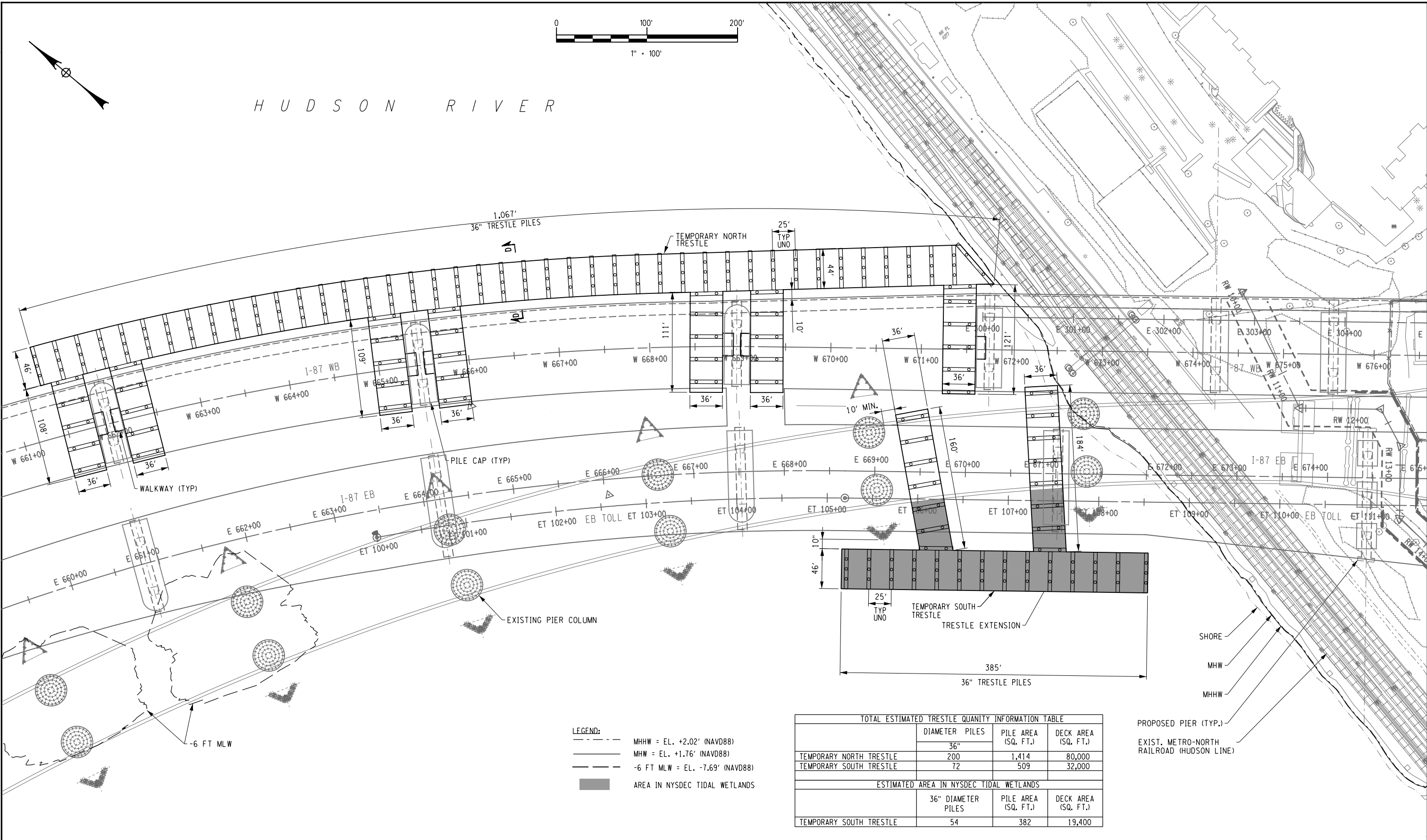
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DESIGN SUPERVISOR



LEGEND:
--- MHHW = EL. +2.02' (NAVD88)
--- MHW = EL. +1.76' (NAVD88)
--- -6 FT MLW = EL. -7.69' (NAVD88)
■ AREA IN NYSDEC TIDAL WETLANDS

TOTAL ESTIMATED TRESTLE QUANTITY INFORMATION TABLE			
	DIAMETER	PILES	
	36"		
TEMPORARY NORTH TRESTLE	200	1,414	80,000
TEMPORARY SOUTH TRESTLE	72	509	32,000
ESTIMATED AREA IN NYSDEC TIDAL WETLANDS			
	36" DIAMETER	PILE AREA	DECK AREA
	PILES	(SQ. FT.)	(SQ. FT.)
TEMPORARY SOUTH TRESTLE	54	382	19,400



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TAPPAN ZEE BRIDGE
HUDSON RIVER, MILEPOINT 27
SOUTH NYACK-TARRYTOWN, NEW YORK
ROCKLAND AND WESTCHESTER COUNTIES

ALL DIMENSIONS IN FT UNLESS OTHERWISE NOTED

WESTCHESTER COUNTY LANDING

CONTRACT NUMBER
D214134
SHEET NO. 8 OF 15

NEW YORK STATE DEPARTMENT OF TRANSPORTATION REGION
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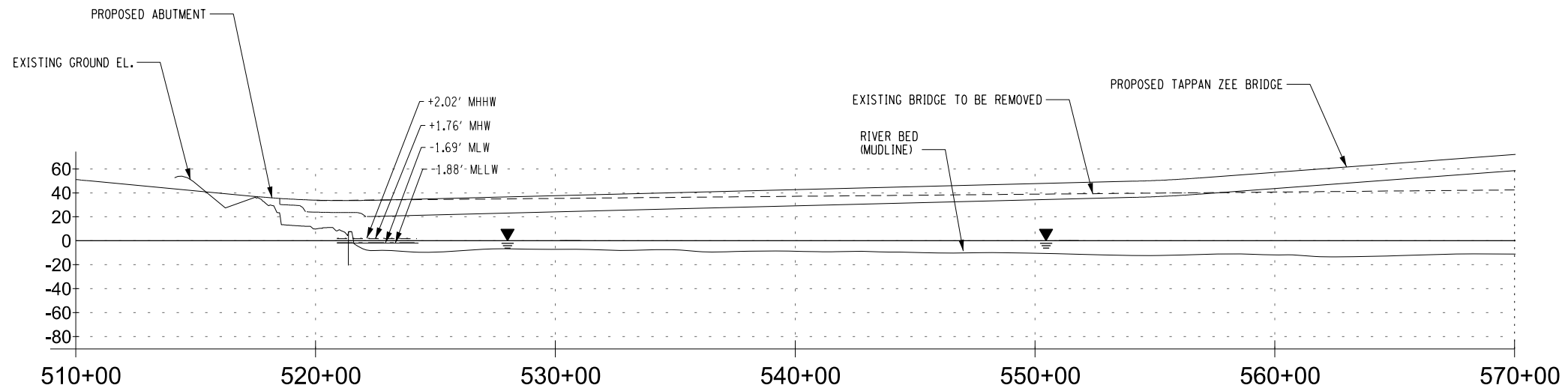
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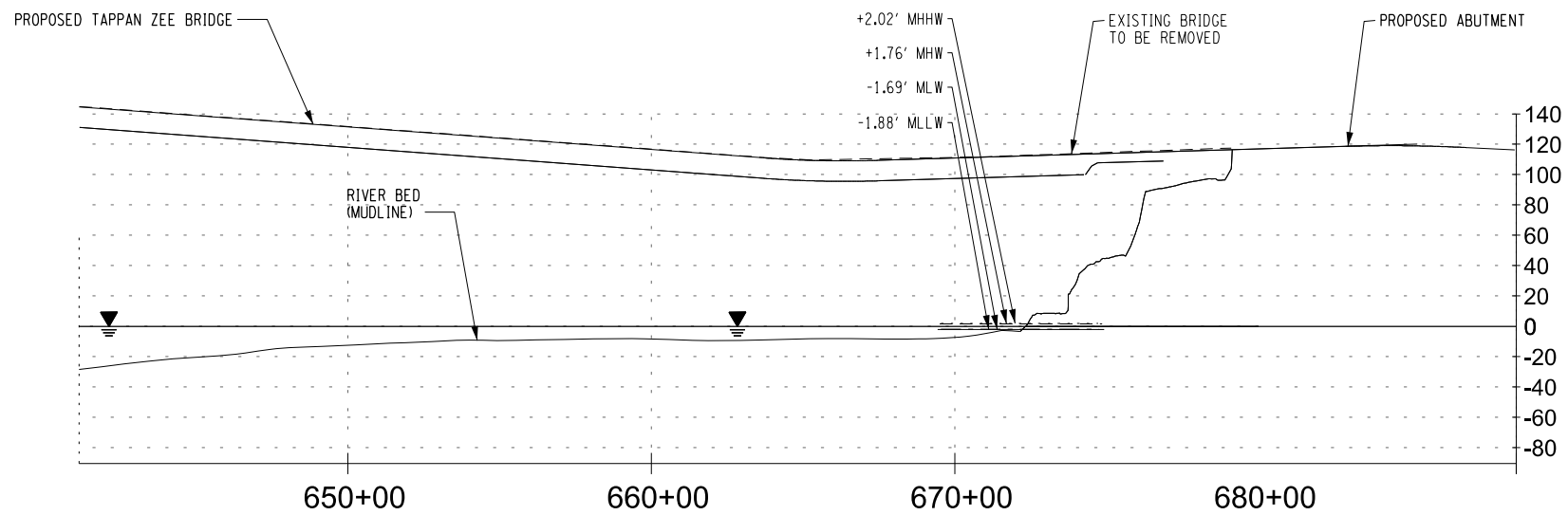
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


ROCKLAND COUNTY SECTION



WESTCHESTER COUNTY SECTION



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		HUDSON RIVER, MILEPOINT 27		ROCKLAND AND WESTCHESTER COUNTY CROSS SECTIONS	D214134	
		SOUTH NYACK-TARRYTOWN, NEW YORK			SHEET NO. 9 OF 15	
		ROCKLAND AND WESTCHESTER COUNTIES				
NEW YORK STATE DEPARTMENT OF TRANSPORTATION REGION						
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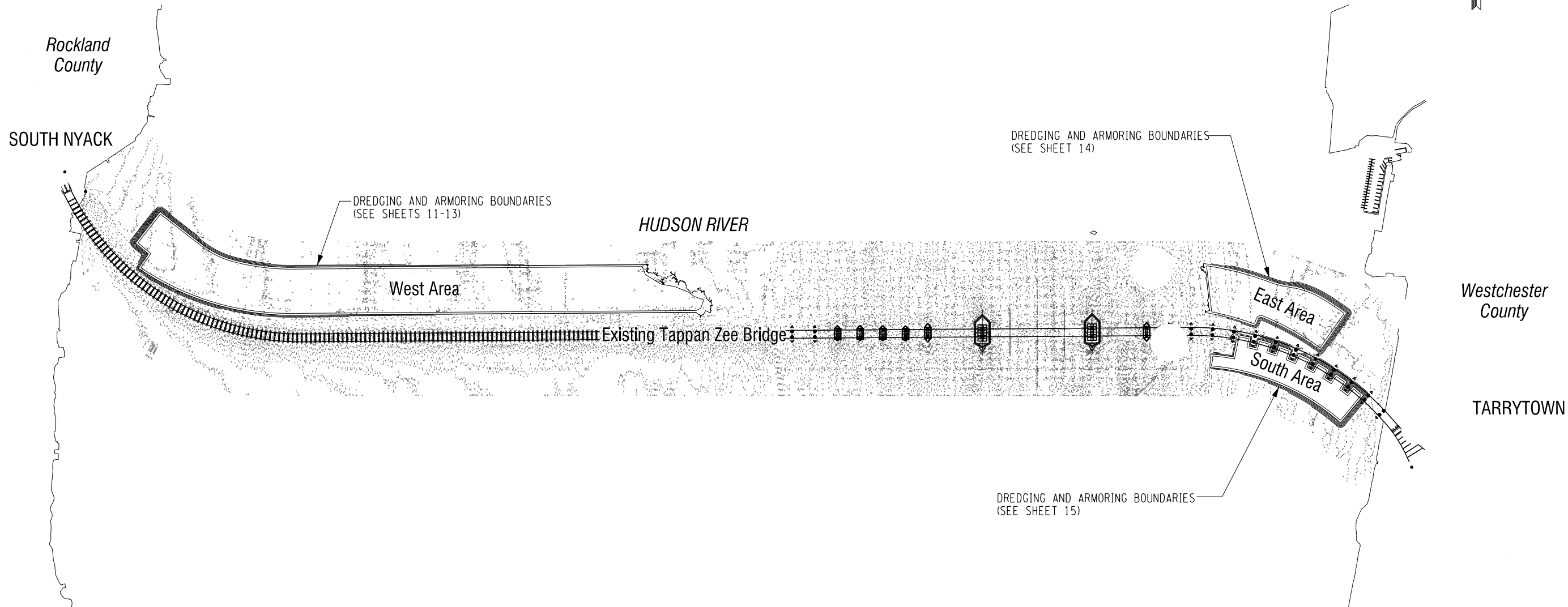
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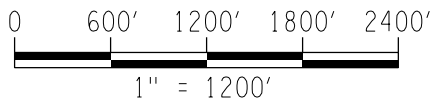
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NOTES:

1. BASED UPON S.T. HUDSON ENGINEERS, INC. HYDROGRAPHIC SURVEY DATED JANUARY 26, 2012, SIGNED BY MR. MARK KLEIN #182 AND SIGNED AND SEALED BY MR. MICHAEL FASNACHT, NYSPE #57352.
2. AREAS IN TABLE BASED ON TOP OF SLOPE OF ACCESS CHANNEL AND ARMORING ELEVATION.

DREDGING	DEPTH AT MEAN LOWER LOW WATER (MLLW)	WEST AREA		EAST AREA		SOUTH AREA		TOTAL AREA (AC.)	TOTAL VOLUME (MCY)
		SCHEDULED DATES: AUG-OCT 2013		SCHEDULED DATES: AUG-OCT 2013		SCHEDULED DATES: AUG-OCT 2014			
		SURFACE AREA (AC.)	VOLUME (MCY)	SURFACE AREA (AC.)	VOLUME (MCY)	SURFACE AREA (AC.)	VOLUME (MCY)		
ACCESS CHANNEL	-13.0	95.3	0.52	24.1	0.16	19.1	0.13	138.5	0.81
OVERDEPTH ALLOWANCE (1FT)	-14.0		0.10		0.02		0.02		0.14
DREDGING TOTAL			0.62		0.18		0.15	138.5	0.95
ARMORING	-11.0	76.1	0.25	17.1	0.06	13.3	0.05	106.5	0.36



			TAPPAN ZEE BRIDGE		ALL DIMENSIONS IN FT UNLESS OTHERWISE NOTED	CONTRACT NUMBER	
			HUDSON RIVER, MILEPOINT 27			D214134	
			SOUTH NYACK-TARRYTOWN, NEW YORK			SHEET NO. 10 OF 15	
			ROCKLAND AND WESTCHESTER COUNTIES				
SIGNATURE	DATE	PROPOSED TEMPORARY ACCESS CHANNEL DREDGING PLAN TO -13'					
NEW YORK STATE DEPARTMENT OF TRANSPORTATION REGION							
DOCUMENT NAME:							

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NOTES:

1. BASED UPON S.T. HUDSON ENGINEERS, INC. HYDROGRAPHIC SURVEY DATED JANUARY 26, 2012 SIGNED BY MR. MARK KLEIN, CERTIFIED HYDROGRAPHER #182, AND SIGNED AND SEALED BY MR. MICHAEL FASNACHT, NYPSE #57352.



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TAPPAN ZEE BRIDGE

HUDSON RIVER, MILEPOINT 27

SOUTH NYACK-TARRYTOWN, NEW YORK

ROCKLAND AND WESTCHESTER COUNTIES

ALL DIMENSIONS IN FT UNLESS OTHERWISE NOTED

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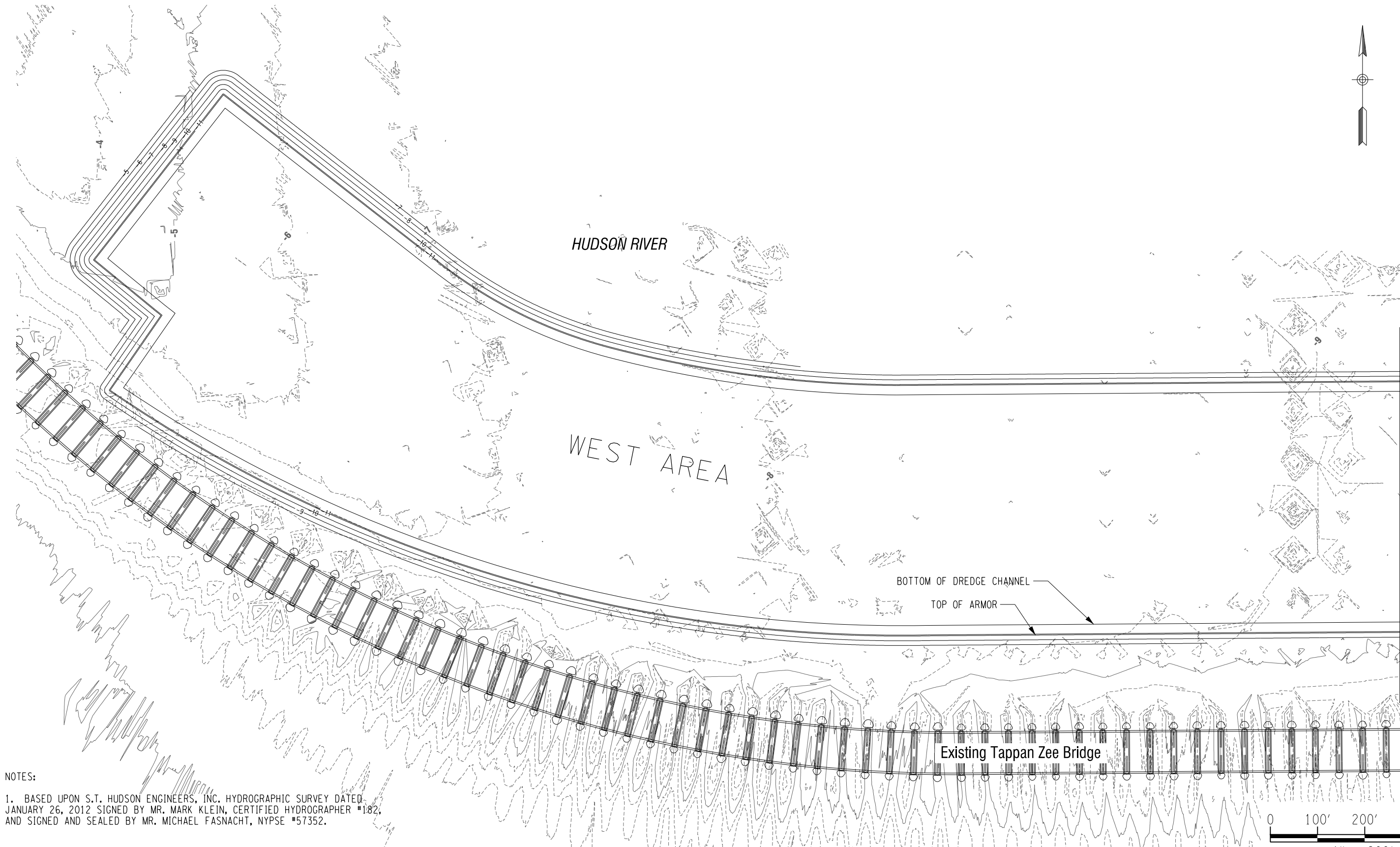
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PROPOSED TEMPORARY ACCESS
CHANNEL DREDGING PLAN - WEST AREA
(STAGE 1)

SHEET NO. 11 OF 15

NEW YORK STATE DEPARTMENT OF TRANSPORTATION REGION

DOCUMENT NAME:



MATCHLINE-SEE SHEET 3

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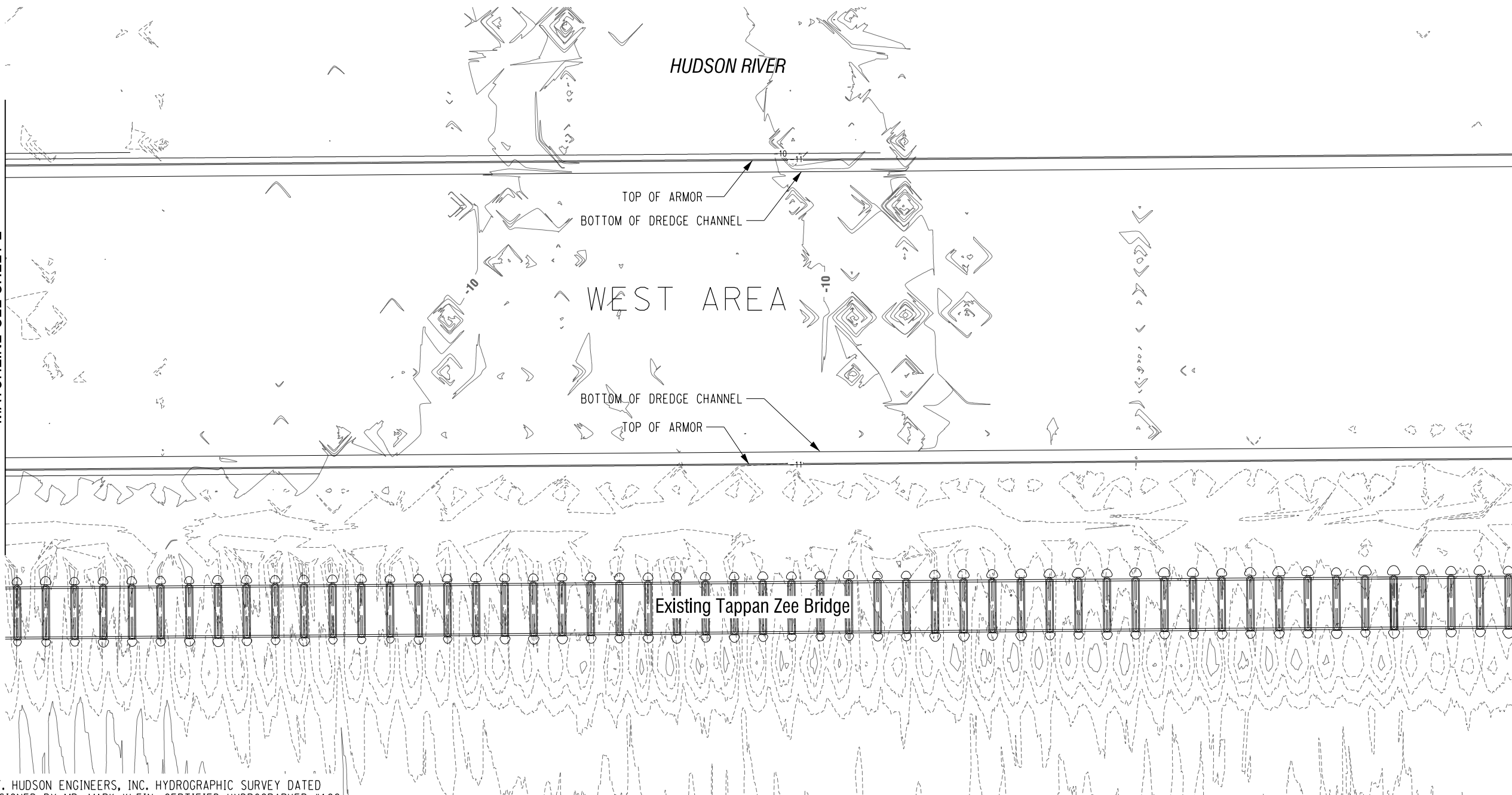
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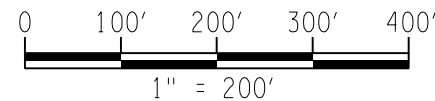
MATCHLINE-SEE SHEET 2

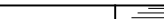


MATCHLINE-SEE SHEET 4

NOTES:

1. BASED UPON S.T. HUDSON ENGINEERS, INC. HYDROGRAPHIC SURVEY DATED JANUARY 26, 2012 SIGNED BY MR. MARK KLEIN, CERTIFIED HYDROGRAPHER #182, AND SIGNED AND SEALED BY MR. MICHAEL FASNACHT, NYPSE #57352.



	TAPPAN ZEE BRIDGE		ALL DIMENSIONS IN ft UNLESS OTHERWISE NOTED	CONTRACT NUMBER	
	HUDSON RIVER, MILEPOINT 27			D214134	
	SOUTH NYACK-TARRYTOWN, NEW YORK			SHEET NO. 12 OF 15	
	ROCKLAND AND WESTCHESTER COUNTIES				
SIGNATURE _____	DATE _____		PROPOSED TEMPORARY ACCESS CHANNEL DREDGING PLAN - WEST AREA (STAGE 1)		

NEW YORK STATE DEPARTMENT OF TRANSPORTATION REGION
DOCUMENT NAME:

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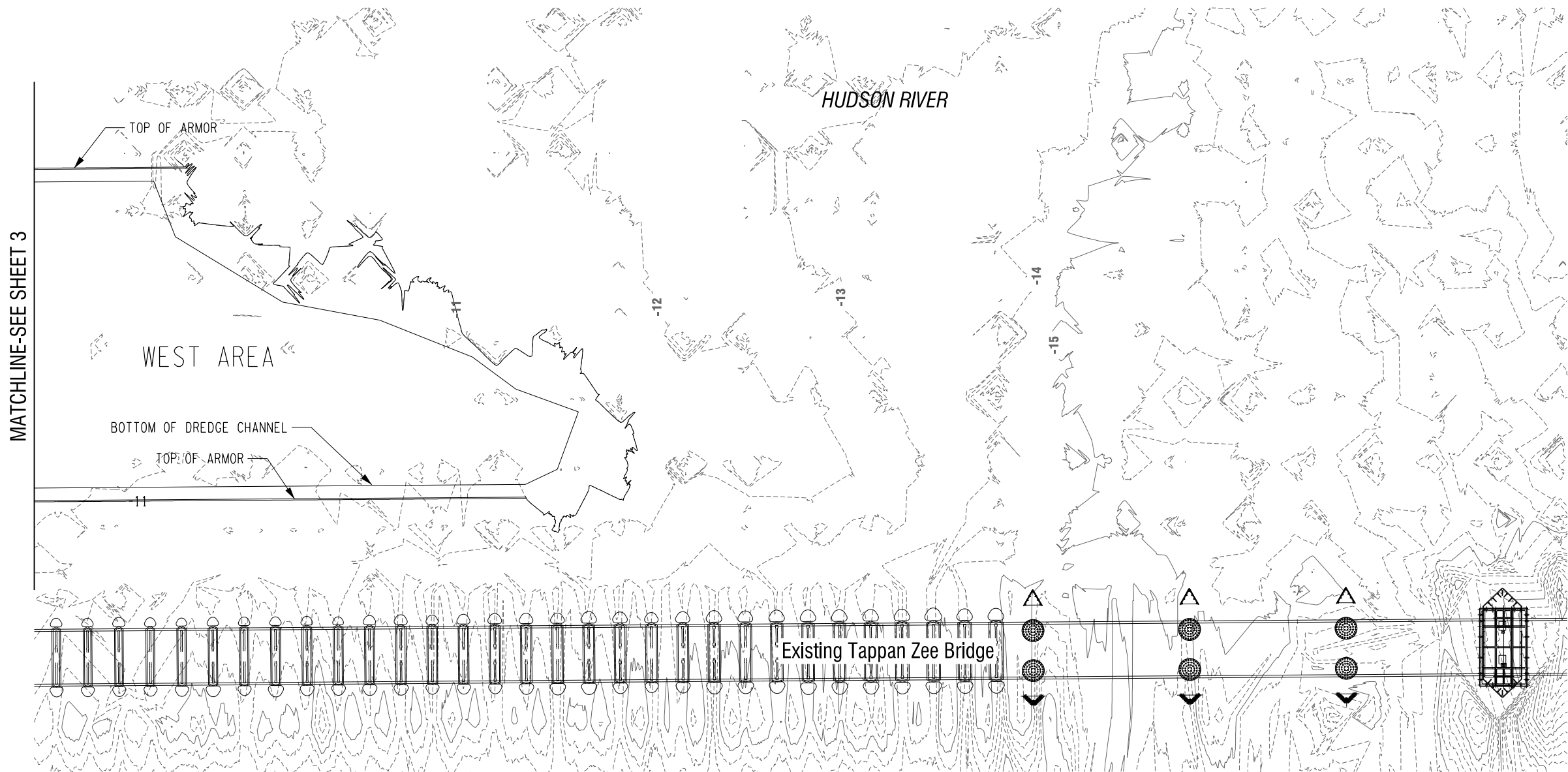
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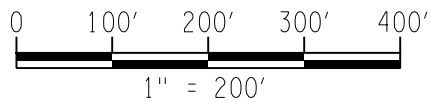
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PROJECT MANAGER



NOTES:

1. BASED UPON S.T. HUDSON ENGINEERS, INC. HYDROGRAPHIC SURVEY DATED JANUARY 26, 2012 SIGNED BY MR. MARK KLEIN, CERTIFIED HYDROGRAPHER #182, AND SIGNED AND SEALED BY MR. MICHAEL FASNACHT, NYPSE #57352.



A Consortium of Fluor, American Bridge, Granite, and Traylor Bros.

SIGNATURE

DATE

TAPPAN ZEE BRIDGE
HUDSON RIVER, MILEPOINT 27
SOUTH NYACK-TARRYTOWN, NEW YORK
ROCKLAND AND WESTCHESTER COUNTIES

ALL DIMENSIONS IN ft UNLESS OTHERWISE NOTED

CONTRACT NUMBER

0214134

PROPOSED TEMPORARY ACCESS
CHANNEL DREDGING PLAN - WEST AREA
(STAGE 1)

SHEET NO. 13 OF 15

NEW YORK STATE DEPARTMENT OF TRANSPORTATION REGION
DOCUMENT NAME:

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DATE/TIME : 12-27-2012 5:28:45 PM
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DESIGN SUPERVISOR

JOB MANAGER

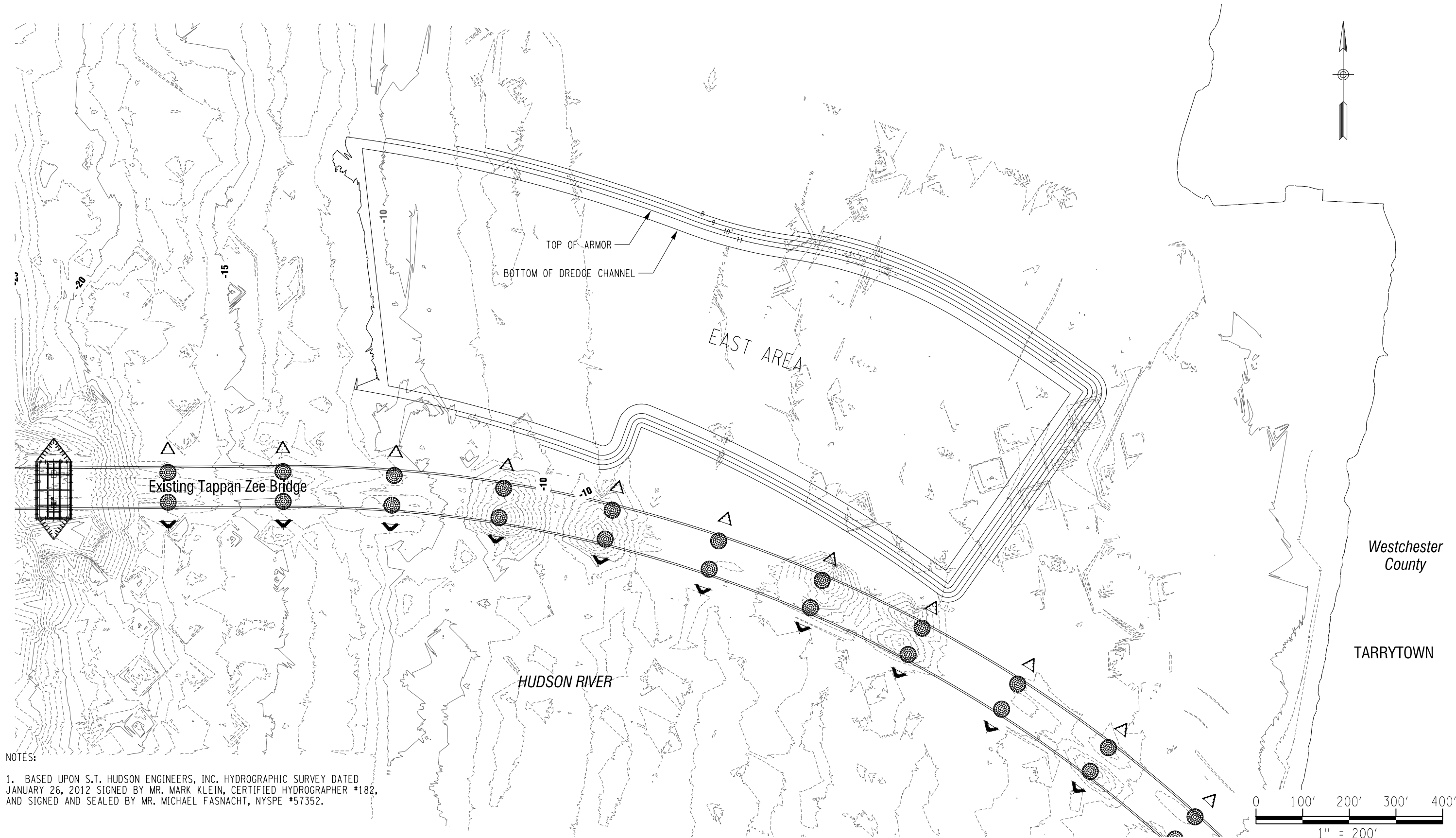
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PROJECT MANAGER



NOTES:

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SIGNATURE

DATE

TAPPAN ZEE BRIDGE

HUDSON RIVER, MILEPOINT 27

SOUTH NYACK-TARRYTOWN, NEW YORK

ROCKLAND AND WESTCHESTER COUNTIES

ALL DIMENSIONS IN FT UNLESS OTHERWISE NOTED

CONTRACT NUMBER

0214134

PROPOSED TEMPORARY ACCESS
CHANNEL DREDGING PLAN - EAST AREA
(STAGE 1)

SHEET NO. 14 OF 15

NEW YORK STATE DEPARTMENT OF TRANSPORTATION REGION
DOCUMENT NAME:

FILE NAME : c:\pwworking\pitt\0704876\JPA-015.dgn
DATE/TIME : 12-27-2012 5:28:55 PM
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DESIGN SUPERVISOR

JOB MANAGER

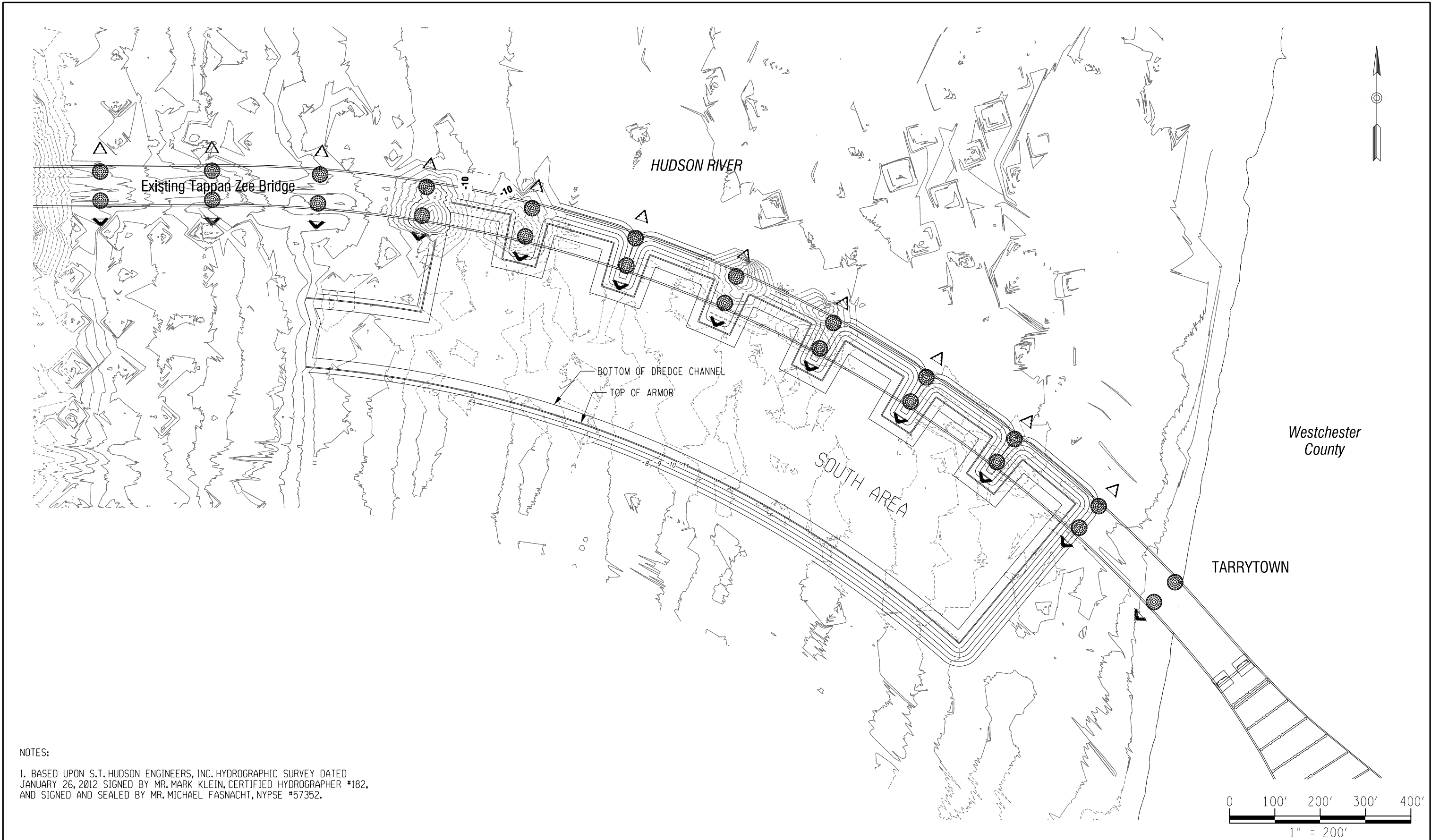
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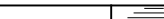
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	TAPPAN ZEE BRIDGE		ALL DIMENSIONS IN FT UNLESS OTHERWISE NOTED	CONTRACT NUMBER	
	HUDSON RIVER, MILEPOINT 27			D214134	
	SOUTH NYACK-TARRYTOWN, NEW YORK		PROPOSED TEMPORARY ACCESS CHANNEL DREDGING PLAN - SOUTH AREA (STAGE 2)	SHEET NO. 15 OF 15	
	ROCKLAND AND WESTCHESTER COUNTIES				
SIGNATURE _____	DATE _____				

NEW YORK STATE DEPARTMENT OF TRANSPORTATION REGION
DOCUMENT NAME:

Attachment 2: Revised Impact Tables

CHANGES IN THE TEMPORARY AND PERMANENT WORK PLATFORMS

Tables 5 and 6 of the Reevaluation Statement have been revised as shown below.

Table 5
Overwater Coverage from Platforms

Status	Design Feature	Open Water/ Littoral Zone/ Adjacent Area	FEIS Acreage	Recommended Design Acreage	Net Difference (In acres)
Temporary	WBSA North Platform	Open Water	5.58	1.84	-3.74
	WBSA South Platform	Open Water	N/A	0.29	+0.29
		Littoral Zone	N/A	0.45	+0.45
	WBSA Access Road	Open Water	1.00	N/A	-1.00
		Littoral Zone	0.13	N/A	-0.13
	RBSA Walkway	Open Water	N/A	0.13	+0.13
	RBSA South Platform	Open Water	3.67	0.44	-3.23
		Littoral Zone	0	0.70	+0.70
		Adjacent Area	0	0.005	+0.005
	RBSA Temporary North Platform	Open Water	N/A	2.03	+2.03
	RBSA NYSTA Dock	Open Water	N/A	0.80	+0.80
	Total	Open Water	10.25	5.53	-4.72
		Littoral Zone	0.13	1.15	+1.02
		Adjacent Area	N/A	0.005	+0.005
Total Temporary Overwater Coverage			10.38	6.69	-3.70
Permanent	RBSA North Dock	Open Water	2.19	2.44	+0.25
	RBSA North Dock Bulkhead	Open Water	N/A	0	0
		Open Water	2.19	2.44	+0.25
	Total	Littoral Zone	0	0	0
		Total Permanent Overwater Coverage			2.19
Notes: WBSA = Westchester Bridge Staging Area RBSA = Rockland Bridge Staging Area					

New NY Bridge Project

Table 6

Potential Loss of River Bottom, Wetlands, and Adjacent Area Habitats due to Project Activities (Replacement Bridge Alternative and Recommended Design)

Status	Activity / Use	USACE Wetland Areas (acres)		NYSDEC Littoral Zone Tidal Wetlands (acres)		NYSDEC Tidal Wetland Adjacent Area (acres)		Open Water Benthic Habitat (acres)	
		RBA	RD	RBA	RD	RBA	RD	RBA	RD
Temporary	WBSA North Platform	-	-	-	-	-	-	0.28	0.03
	WBSA South Platform	N/A	-	N/A	0.01	N/A	-	N/A	0.003
	WBSA Access Road	0.004	N/A	0.01*	N/A	0.01*	N/A	0.05	N/A
	RBSA Walkway	N/A	-	N/A	-	N/A	-	N/A	0.002
	RBSA North Platform	-	N/A	-	N/A	-	N/A	0.18	0.10
	RBSA South Platform	N/A	-	N/A	0.04	N/A	0.00003	N/A	0.02
	RBSA NYSTA Dock	N/A	-	N/A	-	N/A	-	N/A	0.001
	Dredging / Armoring	-	-	0.10	-	-	-	164.4-172.4/ 160-167**	139/107
	Total	0.004	0.0	0.11	0.05	0.01	0.003	164.9-172.9/160.5-167.5	139.16/107.16
Permanent	RBSA North Dock (pile-supported)	-	-	-	-	-	-	0.11	0.12
	RBSA North Dock Bulkhead	-	-	-	-	-	-	(0.10)	0.0
	New Bridge	-	-	-	-	-	-	6.5-8.0	4.70
	Removal of Existing Structure	-	-	-	-	-	-	(7.1)	(7.10)
	Total	0	0	0	0	0	0	(0.54)-0.91	(2.28)
Notes: RBA = Replacement Bridge Alternative; RD = Recommended Design *Potential loss expressed as the area of the pile footprints supporting the overlying platform and access road for the FEIS Alternative; estimated as 5 percent of the platform area. **Short Span/Long Span Numbers in parentheses represent net gain. WBSA Westchester Bridge Staging Area RBSA Rockland Bridge Staging Area									