DEPARTMENT OF THE ARMY
US ARMY CORPS OF ENGINEERS
NEW ENGLAND DISTRICT
696 VIRGINIA ROAD
CONCORD MA 01742-2751

March 9, 2023

Regulatory Division
File Number: NAE-2015-625

Kimberly Lesay
Connecticut Department of Transportation
2800 New Berlin Turnpike
Newington, Connecticut 06131
(via email: Kimberly.Lesay@ct.gov)

Dear Ms. Lesay:

Enclosed is your fully executed Department of the Army permit for the Walk Bridge replacement project and related activities located in the Norwalk River, near Norwalk, Connecticut. We have assigned the file number provided above to this project. Please refer to this number in all communication concerning this matter.

This permit is a limited authorization containing a specific set of conditions. Please read the permit thoroughly to familiarize yourself with the conditions, including any conditions contained in the enclosed State Section 401 water quality certification. If a contractor performs any authorized work for you, both you and the contractor are responsible for ensuring that the work is performed in compliance with the permit's terms and conditions, as any violations could result in civil or criminal penalties.

This permit and the enclosed permission letter also constitute your approval under Section 14 of the Rivers and Harbors Act of 1899 (33 U.S.C. 408) as it has also been determined that the activities authorized do not impair the usefulness of the USACE Navigation project and are not injurious to the public interest.

Please contact us immediately if you change the plans or construction methods for work within our jurisdiction. We must approve any changes before you undertake them. This authorization does not obviate the need to obtain other Federal, state, or local authorizations required by law.

We continually strive to improve our customer service. In order for us to better serve you, we would appreciate your completing our Customer Service Survey located at https://regulatory.ops.usace.army.mil/customer-service-survey.

WALK BRIDGE REPLACEMENT
INDEX OF SECTION 408 PERMIT PLATES

DRAWING NUMBER	DRAWING TITLE	DRAWING NUMBER	DRAWING TITLE	DRAWING NUMBER	DRAWING TITLE	DRAWING NUMBER	DRAWING TITLE
GEN-1	INDEX OF PERMIT PLATES (SHEET 1 OF 2)	PP-1	PROPOSED CONDITIONS (SHEET 1 OF 14)	FP-1	FLOODPLAIN IMPACTS (SHEET 1 OF 12)	CA4-1	MARINE STAGING YARD (SHEET 1 OF 6)
GEN-1A	INDEX OF PERMIT PLATES (SHEET 2 OF 2)	PP-2	PROPOSED CONDITIONS (SHEET 2 OF 14)	FP-1A	FLOODPLAIN IMPACTS (SHEET 2 OF 12)	CA4-2	MARINE STAGING YARD (SHEET 2 OF 6)
GEN-2	GENERAL NOTES AND LEGEND	PP-3	PROPOSED CONDITIONS (SHEET 3 OF 14)	FP-2	FLOODPLAIN IMPACTS (SHEET 3 OF 12)	CA4-3	MARINE STAGING YARD (SHEET 3 OF 6)
GEN-3	LOCATION PLAN	PP-4	PROPOSED CONDITIONS (SHEET 4 OF 14)	FP-3	FLOODPLAIN IMPACTS (SHEET 4 OF 12)	CA4-4	MARINE STAGING YARD (SHEET 4 OF 6)
GEN-4	RESOURCE MAP (SHEET 1 OF 4)	PP-5	PROPOSED CONDITIONS (SHEET 5 OF 14)	FP-4	FLOODPLAIN IMPACTS (SHEET 5 OF 12)	CA4-5	MARINE STAGING YARD (SHEET 5 OF 6)
GEN-4A	RESOURCE MAP (SHEET 2 OF 4)	PP-6	PROPOSED CONDITIONS (SHEET 6 OF 14)	FP-5	FLOODPLAIN IMPACTS (SHEET 6 OF 12)	CA4-6	MARINE STAGING YARD (SHEET 6 OF 6)
GEN-5	RESOURCE MAP (SHEET 3 OF 4)	PP-7	PROPOSED CONDITIONS (SHEET 7 OF 14)	FP-6	FLOODPLAIN IMPACTS (SHEET 7 OF 12)		
GEN-5A	RESOURCE MAP (SHEET 4 OF 4)	PP-8	PROPOSED CONDITIONS (SHEET 8 OF 14)	FP-7	FLOODPLAIN IMPACTS (SHEET 8 OF 12)	CA5-1	NORTHWEST TRESTLE (SHEET 1 OF 5)
GEN-6	FLOOD ZONE MAP (SHEET 1 OF 2)	PP-8A	PROPOSED CONDITIONS (SHEET 9 OF 14)	FP-8	FLOODPLAIN IMPACTS (SHEET 9 OF 12)	CA5-2	NORTHWEST TRESTLE (SHEET 2 OF 5)
GEN-6A	FLOOD ZONE MAP (SHEET 2 OF 2)	PP-8B	PROPOSED CONDITIONS (SHEET 10 OF 14)	FP-9	FLOODPLAIN IMPACTS (SHEET 10 OF 12)	CA5-3	NORTHWEST TRESTLE (SHEET 3 OF 5)
GEN-6B	SITE PLAN/KEY MAP (SHEET 1 OF 3)	PP-8C	PROPOSED CONDITIONS (SHEET 11 OF 14)	FP-10	FLOODPLAIN IMPACTS (SHEET 11 OF 12)	CA5-4	NORTHWEST TRESTLE (SHEET 4 OF 5)
GEN-7	SITE PLAN/KEY MAP (SHEET 2 OF 3)	PP-8D	PROPOSED CONDITIONS (SHEET 12 OF 14)	FP-11	FLOODPLAIN IMPACTS (SHEET 12 OF 12)	CA5-5	NORTHWEST TRESTLE (SHEET 5 OF 5)
GEN-7A	SITE PLAN/KEY MAP (SHEET 3 OF 3)	PP-8E	PROPOSED CONDITIONS (SHEET 13 OF 14)				
GEN-8	VESSEL BERTHING PLAN OVERALL (SHEET 1 OF 4)	PP-9	PROPOSED CONDITIONS (SHEET 14 OF 14)	CA1-1	IMAX REMOVAL (SHEET 1 OF 7)	CA6-1	SOUTHWEST TRESTLE (SHEET 1 OF 5)
GEN-9	VESSEL BERTHING PLAN WALK BRIDGE (SHEET 2 OF 4)			CA1-2	IMAX REMOVAL (SHEET 2 OF 7)	CA6-2	SOUTHWEST TRESTLE (SHEET 2 OF 5)
GEN-10	VESSEL BERTHING PLAN MARINE STAGING YARD (SHEET 3 OF 4)	SUM-1	SUMMARY OF IMPACTS (SHEET 1 OF 17)	CA1-3	IMAX REMOVAL (SHEET 3 OF 7)	CA6-3	SOUTHWEST TRESTLE (SHEET 3 OF 5)
GEN-10A	VESSEL BERTHING PLAN MANRESA ISLAND (SHEET 4 OF 4)	SUM-1A	SUMMARY OF IMPACTS (SHEET 2 OF 17)	CA1-4	IMAX REMOVAL (SHEET 4 OF 7)	CA6-4	SOUTHWEST TRESTLE (SHEET 4 OF 5)
GEN-11	PARCEL MAP (SHEET 1 OF 3)	SUM-2	SUMMARY OF IMPACTS (SHEET (3 OF 17)	CA1-5	IMAX REMOVAL (SHEET 5 OF 7)	CA6-5	SOUTHWEST TRESTLE (SHEET 5 OF 5)
GEN-12	PARCEL MAP (SHEET 2 OF 3)	SUM-3	SITES 1, 2 & 3 STATE (SHEET 4 OF 17)	CA1-6	IMAX REMOVAL (SHEET 6 OF 7)		
GEN-13	PARCEL MAP (SHEET 3 OF 3)	SUM-4	SITE 4 STATE (SHEET 5 OF 17)	CA1-7	IMAX REMOVAL (SHEET 7 OF 7)	CA7-1	NORTHEAST TRESTLE (SHEET 1 OF 6)
GEN-14	BUILDING DEMOLITION MAP	SUM-5	SITE 5 STATE (SHEET 6 OF 17)			CA7-2	NORTHEAST TRESTLE (SHEET 2 OF 6)
		SUM-5A	SITE 7 STATE (SHEET 7 OF 17)	CA2-1	DUCTBANK INSTALLATION (SHEET 1 OF 4)	CA7-3	NORTHEAST TRESTLE (SHEET 3 OF 6)
EP-1	EXISTING CONDITIONS (SHEET 1 OF 14)	SUM-5B	SITE 8 STATE (SHEET 8 OF 17)	CA2-2	DUCTBANK INSTALLATION (SHEET 2 OF 4)	CA7-4	NORTHEAST TRESTLE (SHEET 4 OF 6)
EP-2	EXISTING CONDITIONS (SHEET 2 OF 14)	SUM-5C	SITE 9 STATE (SHEET 9 OF 17)	CA2-3	DUCTBANK INSTALLATION (SHEET 3 OF 4)	CA7-5	NORTHEAST TRESTLE (SHEET 5 OF 6)
EP-3	EXISTING CONDITIONS (SHEET 3 OF 14)	SUM-5D	SITE 10 STATE (SHEET 10 OF 17)	CA2-4	DUCTBANK INSTALLATION (SHEET 4 OF 4)	CA7-6	NORTHEAST TRESTLE (SHEET 6 OF 6)
EP-4	EXISTING CONDITIONS (SHEET 4 OF 14)	SUM-6	SITES 1, 2 & 3 FEDERAL (SHEET 11 OF 17)				
EP-5	EXISTING CONDITIONS (SHEET 5 OF 14)	SUM-7	SITE 4 FEDERAL (SHEET 12 OF 17)	CA3-1	VESSEL RELOCATION (SHEET 1 OF 4)	CA8-1	SOUTHEAST TRESTLE (SHEET 1 OF 5)
EP-6	EXISTING CONDITIONS (SHEET 6 OF 14)	SUM-8	SITE 5 FEDERAL (SHEET 13 OF 17)	CA3-2	VESSEL RELOCATION (SHEET 2 OF 4)	CA8-2	SOUTHEAST TRESTLE (SHEET 2 OF 5)
EP-7	EXISTING CONDITIONS (SHEET 7 OF 14)	SUM-9	SITE 7 FEDERAL (SHEET 14 OF 17)	CA3-3	VESSEL RELOCATION (SHEET 3 OF 4)	CA8-3	SOUTHEAST TRESTLE (SHEET 3 OF 5)
EP-8	EXISTING CONDITIONS (SHEET 8 OF 14)	SUM-10	SITE 8 FEDERAL (SHEET 15 OF 17)	CA3-4	VESSEL RELOCATION (SHEET 4 OF 4)	CA8-4	SOUTHEAST TRESTLE (SHEET 4 OF 5)
EP-8A	EXISTING CONDITIONS (SHEET 9 OF 14)	SUM-11	SITE 9 FEDERAL (SHEET 16 OF 17)			CA8-5	SOUTHEAST TRESTLE (SHEET 5 OF 5)
EP-8B	EXISTING CONDITIONS (SHEET 10 OF 14)	SUM-12	SITE 10 FEDERAL (SHEET 17 OF 17)				
EP-8C	EXISTING CONDITIONS (SHEET 11 OF 14)						
EP-8D	EXISTING CONDITIONS (SHEET 12 OF 14)						
EP-8E	EXISTING CONDITIONS (SHEET 13 OF 14)						
EP-9	EXISTING CONDITIONS (SHEET 14 OF 14)						

SCALE:

DRAWN: T. ADINOLFI

CHECKED: V. ROBBINS

APPROVED: C. BROWN

SIGNATURE BLOCK:

STATE OF CONNECTICUT
DEPARTMENT OF TRANSPORTATION

PROJECT TITLE:
WALK BRIDGE REPLACEMENT OVER THE NORWALK RIVER BRIDGE NO. 04288R/MP 41.5

TOWN: **NORWALK**

DRAWING TITLE: **INDEX OF PERMIT PLATES (SHEET 1 OF 2)**

PROJECT NO.: **0301-0176**

DATE: **REV 02-23-21**

DRAWING NO.: **GEN-1**

WALK BRIDGE REPLACEMENT
INDEX OF SECTION 408 PERMIT PLATES

DRAWING NUMBER	DRAWING TITLE	DRAWING NUMBER	DRAWING TITLE	DRAWING NUMBER	DRAWING TITLE	DRAWING NUMBER	DRAWING TITLE
CA9-1	PIER 2 CONSTRUCTION (SHEET 1 OF 7)	CA14-1	PIER REMOVAL (SHEET 1 OF 8)	CA17-1	DREDGING OPERATIONS (SHEET 1 OF 7)		
CA9-2	PIER 2 CONSTRUCTION (SHEET 2 OF 7)	CA14-2	PIER REMOVAL (SHEET 2 OF 8)	CA17-2	DREDGING OPERATIONS (SHEET 2 OF 7)		
CA9-3	PIER 2 CONSTRUCTION (SHEET 3 OF 7)	CA14-3	PIER REMOVAL (SHEET 3 OF 8)	CA17-3	DREDGING OPERATIONS (SHEET 3 OF 7)		
CA9-4	PIER 2 CONSTRUCTION (SHEET 4 OF 7)	CA14-4	PIER REMOVAL (SHEET 4 OF 8)	CA17-4	DREDGING OPERATIONS (SHEET 4 OF 7)		
CA9-5	PIER 2 CONSTRUCTION (SHEET 5 OF 7)	CA14-5	PIER REMOVAL (SHEET 5 OF 8)	CA17-5	DREDGING OPERATIONS (SHEET 5 OF 7)		
CA9-6	PIER 2 CONSTRUCTION (SHEET 6 OF 7)	CA14-6	PIER REMOVAL (SHEET 6 OF 8)	CA17-6	DREDGING OPERATIONS (SHEET 6 OF 7)		
CA9-7	PIER 2 CONSTRUCTION (SHEET 7 OF 7)	CA14-7	PIER REMOVAL (SHEET 7 OF 8)	CA17-7	DREDGING OPERATIONS (SHEET 7 OF 7)		
		CA14-8	PIER REMOVAL (SHEET 8 OF 8)				
CA10-1	PIER 3 CONSTRUCTION (SHEET 1 OF 7)			CA18-1	LIFT SPAN INSTALLATION (SHEET 1 OF 6)		
CA10-2	PIER 3 CONSTRUCTION (SHEET 2 OF 7)	CA15-1	FENDER INSTALLATION (SHEET 1 OF 5)	CA18-2	LIFT SPAN INSTALLATION (SHEET 2 OF 6)		
CA10-3	PIER 3 CONSTRUCTION (SHEET 3 OF 7)	CA15-2	FENDER INSTALLATION (SHEET 2 OF 5)	CA18-3	LIFT SPAN INSTALLATION (SHEET 3 OF 6)		
CA10-4	PIER 3 CONSTRUCTION (SHEET 4 OF 7)	CA15-3	FENDER INSTALLATION (SHEET 3 OF 5)	CA18-4	LIFT SPAN INSTALLATION (SHEET 4 OF 6)		
CA10-5	PIER 3 CONSTRUCTION (SHEET 5 OF 7)	CA15-4	FENDER INSTALLATION (SHEET 4 OF 5)	CA18-5	LIFT SPAN INSTALLATION (SHEET 5 OF 6)		
CA10-6	PIER 3 CONSTRUCTION (SHEET 6 OF 7)	CA15-5	FENDER INSTALLATION (SHEET 5 OF 5)	CA18-6	LIFT SPAN INSTALLATION (SHEET 6 OF 6)		
CA10-7	PIER 3 CONSTRUCTION (SHEET 7 OF 7)						
		CA16-1	WETLAND MITIGATION (MIT-001)	CA19-1	MANRESA ISLAND (SHEET 1 OF 3)		
CA11-1	BARGE MOORING (SHEET 1 OF 5)	CA16-2	WETLAND MITIGATION (MIT-002)	CA19-2	MANRESA ISLAND (SHEET 2 OF 3)		
CA11-2	BARGE MOORING (SHEET 2 OF 5)	CA16-3	WETLAND MITIGATION (MIT-003)	CA19-3	MANRESA ISLAND (SHEET 3 OF 3)		
CA11-3	BARGE MOORING (SHEET 3 OF 5)	CA16-4	WETLAND MITIGATION (MIT-004)				
CA11-4	BARGE MOORING (SHEET 4 OF 5)	CA16-5	WETLAND MITIGATION (MIT-005)				
CA11-5	BARGE MOORING (SHEET 5 OF 5)	CA16-6	WETLAND MITIGATION (MIT-006)				
CA11-6	BARGE MOORING (SHEET 6 OF 6)	CA16-7	WETLAND MITIGATION (MIT-007)				
		CA16-8	WETLAND MITIGATION (MIT-008)				
CA12-1	SUBMARINE CABLE REMOVAL (SHEET 1 OF 4)	CA16-9	WETLAND MITIGATION (MIT-009)				
CA12-2	SUBMARINE CABLE REMOVAL (SHEET 2 OF 4)	CA16-10	WETLAND MITIGATION (MIT-010)				
CA12-3	SUBMARINE CABLE REMOVAL (SHEET 3 OF 4)	CA16-11	WETLAND MITIGATION (MIT-011)				
CA12-4	SUBMARINE CABLE REMOVAL (SHEET 4 OF 4)	CA16-12	WETLAND MITIGATION (MIT-012)				
		CA16-13	WETLAND MITIGATION (MIT-013)				
CA13-1	SWING SPAN REMOVAL (SHEET 1 OF 7)	CA16-14	WETLAND MITIGATION (MIT-014)				
CA13-2	SWING SPAN REMOVAL (SHEET 2 OF 7)	CA16-15	WETLAND MITIGATION (MIT-015)				
CA13-3	SWING SPAN REMOVAL (SHEET 3 OF 7)	CA16-16	WETLAND MITIGATION (MIT-016)				
CA13-4	SWING SPAN REMOVAL (SHEET 4 OF 7)	CA16-17	WETLAND MITIGATION (MIT-017)				
CA13-5	SWING SPAN REMOVAL (SHEET 5 OF 7)	CA16-18	WETLAND MITIGATION (MIT-018)				
CA13-6	SWING SPAN REMOVAL (SHEET 6 OF 7)	CA16-19	WETLAND MITIGATION (MIT-019)				
CA13-7	SWING SPAN REMOVAL (SHEET 7 OF 7)	CA16-20	WETLAND MITIGATION (MIT-020)				

SCALE:

DRAWN: T. ADINOLFI

CHECKED: V. ROBBINS

APPROVED: C. BROWN

SIGNATURE BLOCK:

STATE OF CONNECTICUT
DEPARTMENT OF TRANSPORTATION

PROJECT TITLE:
WALK BRIDGE REPLACEMENT OVER THE NORWALK RIVER BRIDGE NO. 04288R/MP 41.5

TOWN: **NORWALK**

DRAWING TITLE: **INDEX OF PERMIT PLATES (SHEET 2 OF 2)**

PROJECT NO.: **0301-0176**

DATE: **REV 02-23-21**

DRAWING NO.: **GEN-1A**

GENERAL NOTES:

1. A SOFT START WILL BE REQUIRED BETWEEN MARCH 16TH AND OCTOBER 31ST. A SOFT START WILL BE USED AT THE BEGINNING OF EACH SHIFT THAT REQUIRES PILE DRIVING AND EXTRACTION (INCLUDING SHEETPILES) ACTIVITIES, AS WELL AS FOLLOWING CESSATION OF ACTIVITY FOR A PERIOD OF 30 MINUTES OR LONGER.
2. ALL PILE DRIVING AND EXTRACTION (INCLUDING SHEETPILES) ACTIVITY WILL BE ENCLOSED WITHIN TURBIDITY CURTAINS.
3. ALL PILE DRIVING AND EXTRACTION (INCLUDING SHEETPILES) ACTIVITIES CONDUCTED BETWEEN APRIL 1 AND JUNE 30 WILL ONLY OCCUR BETWEEN ONE HOUR AFTER SUNRISE TO ONE HOUR BEFORE SUNSET.
4. ALL PILE DRIVING AND EXTRACTION (INCLUDING SHEETPILES), SHAFT DRILLING, AND MICROPILE DRILLING ACTIVITIES WILL BE COORDINATED TO ENSURE THAT THE NAVIGATION CHANNEL IS AVAILABLE FOR MARINE TRAFFIC AND FISH PASSAGE. ACTIVITIES WILL OCCUPY LESS THAN 50% WHEN WORKING IN THE MIDDLE OF THE NAVIGATION CHANNEL.
5. UNCONFINED DREDGING WILL BE CONDUCTED WITHIN TURBIDITY CURTAINS BETWEEN DECEMBER 1 AND JANUARY 31. IF NECESSARY TO DREDGE BETWEEN FEBRUARY 1 AND NOVEMBER 30, DREDGING WILL OCCUR WITHIN A MARINE ENCLOSURE SURROUNDED BY A TURBIDITY CURTAIN.
6. ALL BARGE MOVEMENTS WILL TAKE PLACE SUCH THAT THERE WILL BE NO IMPACT TO THE RIVER BOTTOM OR INCREASE TURBIDITY.
7. HORIZONTAL DATUM IS CT STATE PLANE COORDINATE SYSTEM BASED ON NAD83.
8. VERTICAL DATUM IS NAVD88. ELEVATIONS RELATIVE TO MLLW TIDAL DATUM ARE SHOWN IN PARENTHESES.
9. AUTHORIZED DREDGE ELEVATION FOR THE FEDERAL NAVIGATION CHANNEL IS EL. -13.98 NAVD88 (-10.00 MLLW) ,10 FEET BELOW MEAN LOWER LOW WATER.
10. EXISTING BRIDGE FOUNDATION ELEMENTS WITHIN THE NAVIGATION CHANNEL OR CHANNEL DREDGING SIDE SLOPE ARE TO BE REMOVED TO THE BOTTOM OF THE TIMBER MAT PER COORDINATION WITH THE UNITED STATES ARMY CORPS OF ENGINEERS AND THE UNITED STATES COAST GUARD.
11. THE FLOOD ZONE MAP ON DRAWING NO. GEN-6 AND GEN-6A ARE BASED ON FLOOD INSURANCE RATE MAP PANEL 0531 (REVISED JULY 8, 2013).
12. THE 100-YEAR FLOOD ELEVATION VARIES THROUGHOUT THE SITE. SEE FLOOD ZONE MAP (DWG. GEN-6 AND GEN-6A) FOR ADDITIONAL INFORMATION.
13. TURBIDITY CURTAINS SHALL BE TYPE III AND COMPLY WITH ITEM #0210306A - TURBIDITY CONTROL CURTAINS.

LEGEND:

VEGETATED TIDAL WETLAND

EROSION AND SEDIMENTATION CONTROL

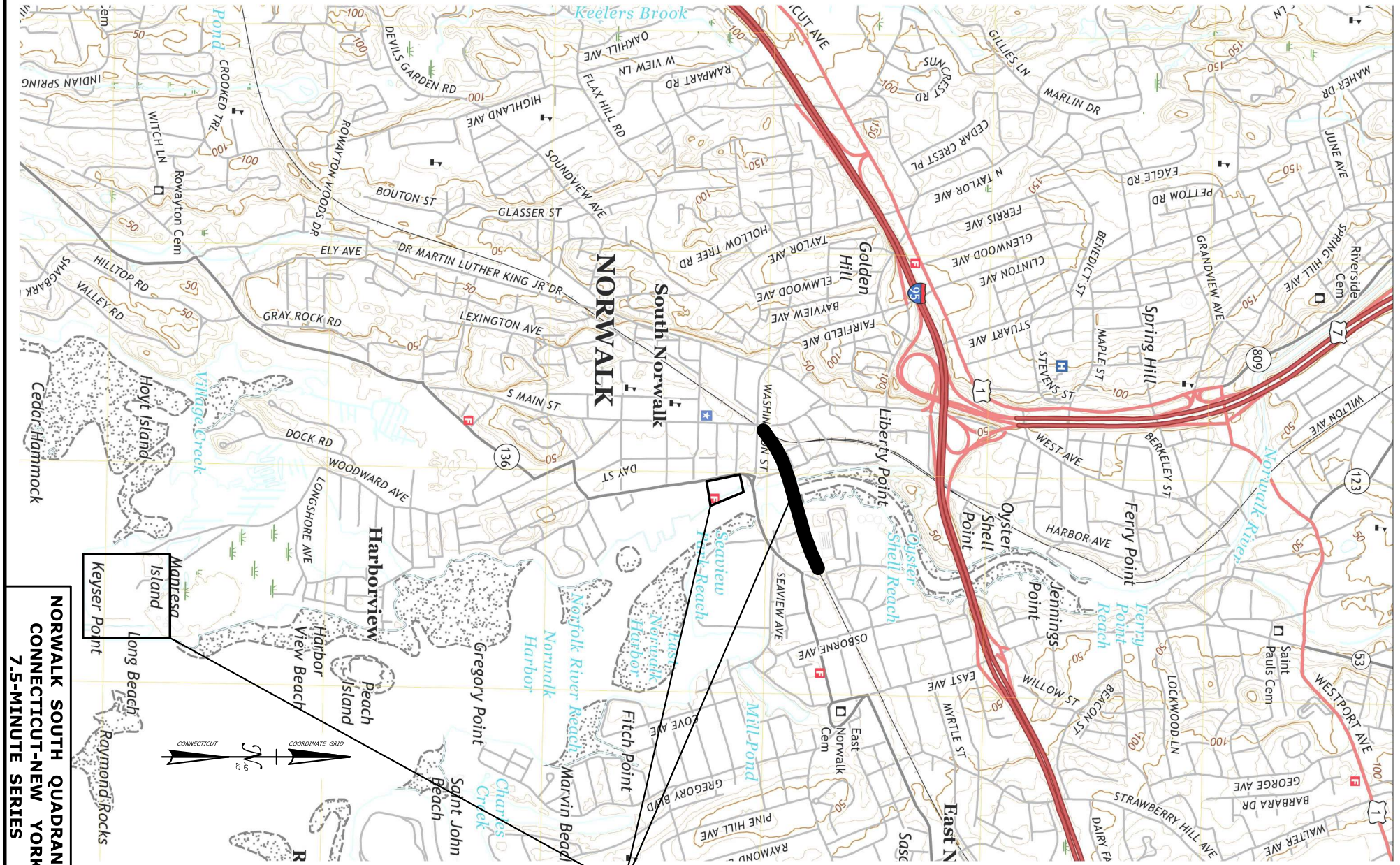
LIMITS OF RIPRAP

DETAILED CONSTRUCTION ACTIVITIES:

THESE DRAWINGS INCLUDE SUBSETS THAT DESCRIBE THE SEQUENCE REQUIRED TO PERFORM VARIOUS ACTIVITIES THAT IMPACT REGULATED AREAS WITHIN THE PROJECT LIMITS. THE ORDER IN WHICH THEY ARE PRESENTED IS INTENDED TO CONVEY LOGICAL DEPENDENCIES BETWEEN ACTIVITIES. HOWEVER, IT DOES NOT NECESSSARILY INDICATE THE SEQUENCE OF CONSTRUCTION, AS MANY OF THESE ACTIVITIES WILL OVERLAP THROUGHOUT THE COURSE OF THE PROJECT. SITE CONDITIONS AND BRIDGE PROGRESS ON EACH DRAWING ARE DEPICTED AS THEY WILL LIKELY EXIST AT THE TIME, BUT THEY ARE SUBJECT TO DIFFER BASED ON ACTUAL TIMING OF NOTICE TO PROCEED AND THE OVERALL CONSTRUCTION SCHEDULE, PARTCULARLY FOR ACTIVITIES DIRECTLY TIED TO THE DREDING WINDOW (SEE GENERAL NOTE 5).

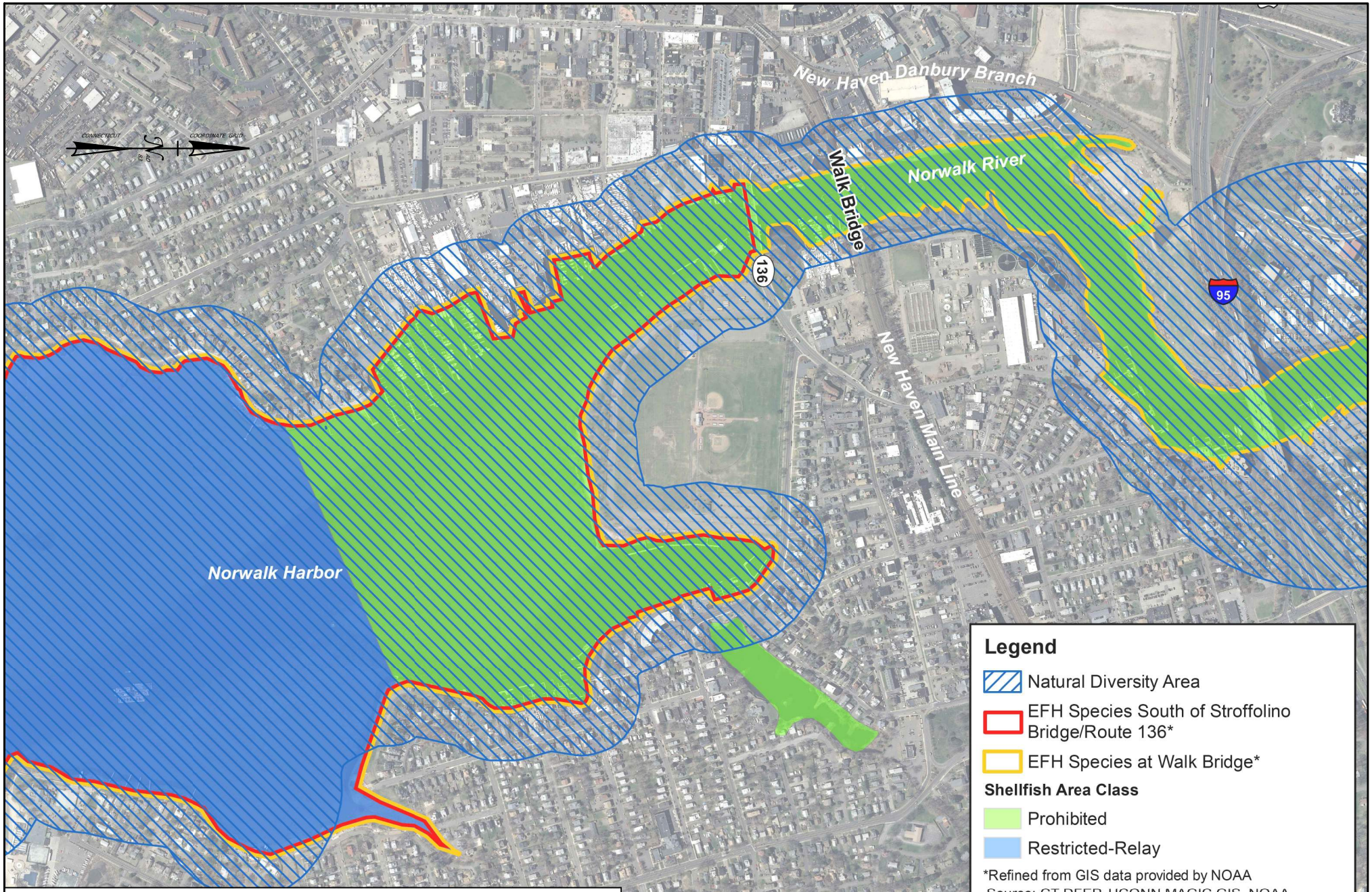
NO.	NAME	DESCRIPTION
1	IMAX REMOVAL	REMOVAL OF THE EXISTING IMAX THEATER, SITE IMPROVEMENTS FOR CONSTRUCTION, AND RESTORATION UPON PROJECT COMPLETION
2	DUCTBANK INSTALLATION	MICRO-TUNNEL OPERATION TO BURY CONDUITS FOR FUTURE PULLING OF CONDUCTORS FOR RAIL AND BRIDGE SYSTEMS
3	VESSEL RELOCATION	RECONFIGURATION OF THE VESSEL DOCKS ON THE WEST BANK OF THE RIVER BETWEEN WALK BRIDGE AND STROFFOLINO BRIDGE DURING CONSTRUCTION AND POST-CONSTRUCTION
4	MARINE STAGING YARD	PERMANENT IMPROVEMENTS TO PROPERTIES ON THE WEST BANK OF THE RIVER SOUTH OF STROFFOLINO BRIDGE INTENDED FOR STAGING ACTIVITIES THROUGHOUT CONSTRUCTION OF WALK BRIDGE
5	NORTHWEST TRESTLE	INSTALLATION AND REMOVAL OF WORK PLATFORMS IN EACH QUADRANT TO BE USED FOR PRIMARY ACCESS TO THE BRIDGE THROUGHOUT CONSTRUCTION
6	SOUTHWEST TRESTLE	
7	NORTHEAST TRESTLE	
8	SOUTHEAST TRESTLE	
9	PIER 2 CONSTRUCTION	MEANS AND METHODS FOR CONSTRUCTION OF THE LIFT SPAN TOWER FOUNDATIONS
10	PIER 3 CONSTRUCTION	
11	BARGE MOORING	MOORING LOCATION IN NORWALK RIVER AND LONG ISLAND SOUND USED FOR CONSTRUCTION BARGES
12	SUBMARINE CABLE REMOVAL	REMOVAL OF THREE EXISTING SUBMARINE CABLES THAT WILL NO LONGER BE USED UPON COMPLETION OF WALK BRIDGE
13	SWING SPAN REMOVAL	SLIDE RAIL SYSTEM INSTALLATION, REMOVAL AND DISASSEMBLY OF THE EXISTING SWING SPAN
14	PIER REMOVAL	REMOVAL OF EXISTING PIERS IN THE RIVER AFTER REMOVAL OF THE SWING SPAN
15	FENDER INSTALLATION	INSTALLATION OF THE PROPOSED FENDER SYSTEM AFTER REMOVAL OF THE EXISTING FENDERS AND REST PIERS
16	WETLAND MITIGATION	TREATMENT AND REMOVAL OF INVASIVE SPECIES, SHORELINE AND SALT MARSH RESTORATION, AND ACCESS REQUIREMENTS
17	DREDGING OPERATIONS	DREDGING PLANS AT THE BRIDGE, VESSEL DOCKS, AND MARINE STAGING YARD.
18	LIFT SPAN INSTALLATION	SLIDE-IN AND FLOAT-IN OPERATIONS FOR INSTALLATION OF THE PROPOSED LIFT SPANS.
19	MANRESA ISLAND	IMPROVEMENTS TO PROPERTIES AT MANRESA ISLAND INTENDED FOR LIFT SPAN ERECTION AND OTHER STAGING ACTIVITIES.

SCALE:	DRAWN: H. UPSHAW CHECKED: T. ADINOLFI APPROVED: C. BROWN	SIGNATURE BLOCK:	STATE OF CONNECTICUT DEPARTMENT OF TRANSPORTATION	PROJECT TITLE: WALK BRIDGE REPLACEMENT OVER THE NORWALK RIVER BRIDGE NO. 04288R/MP 41.5	TOWN: NORWALK DRAWING TITLE: GENERAL NOTES AND LEGEND	PROJECT NO.: 0301-0176 DATE: REV 7-31-20 DRAWING NO.: GEN-2



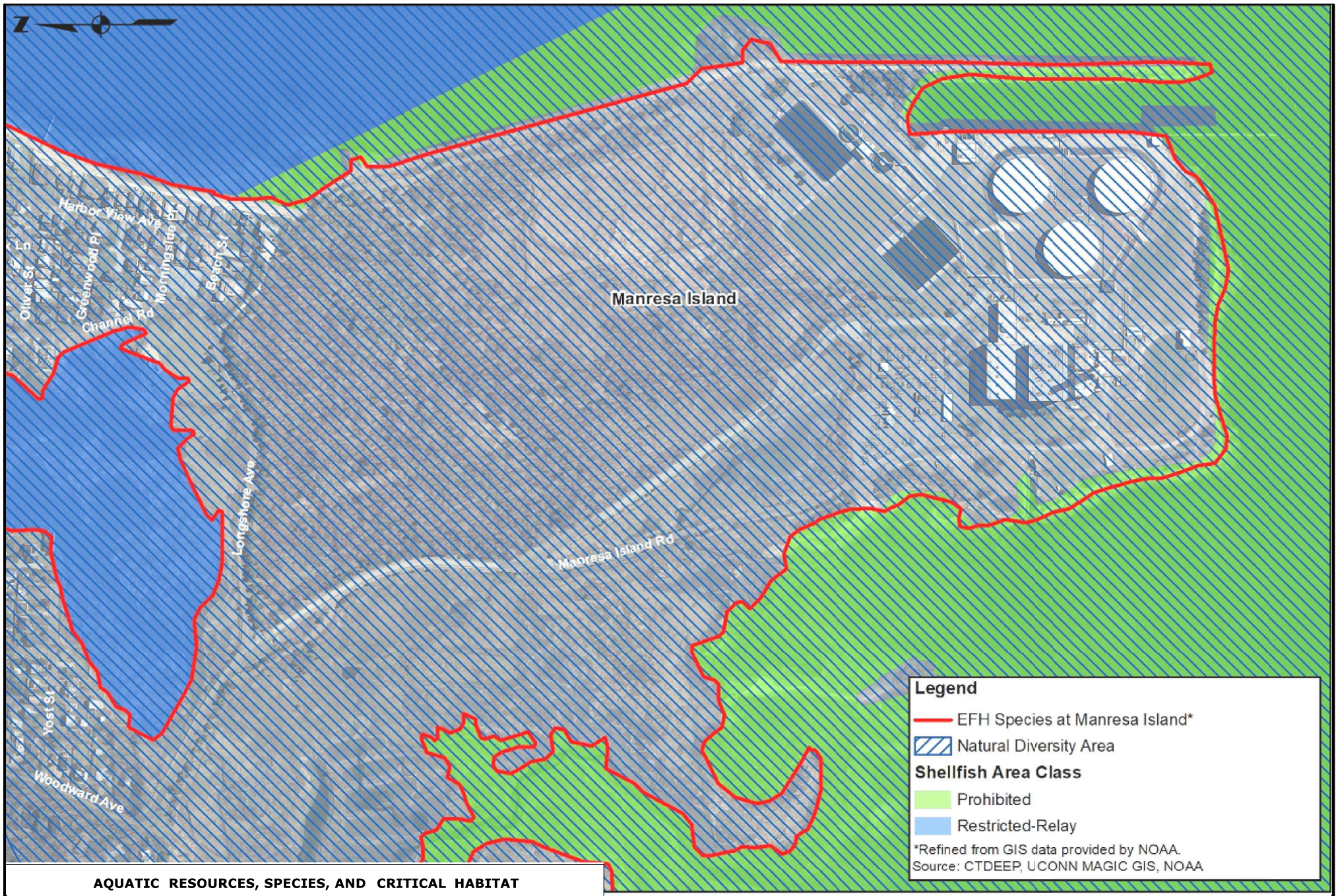
NORWALK SOUTH QUADRANGLE
CONNECTICUT-NEW YORK
7.5-MINUTE SERIES

SCALE: SCALE 1" = 2000' (0 1000 2000)	DRAWN: H. UPSHAW CHECKED: T. ADINOLFI APPROVED: C. BROWN	SIGNATURE BLOCK:	STATE OF CONNECTICUT DEPARTMENT OF TRANSPORTATION	PROJECT TITLE: **WALK BRIDGE REPLACEMENT OVER THE NORWALK RIVER BRIDGE NO. 04288R/MP 41.5**	TOWN: **NORWALK** DRAWING TITLE: **LOCATION PLAN**	PROJECT NO.: **0301-0176** DATE: **REV 7-31-20** DRAWING NO.: **GEN-3**



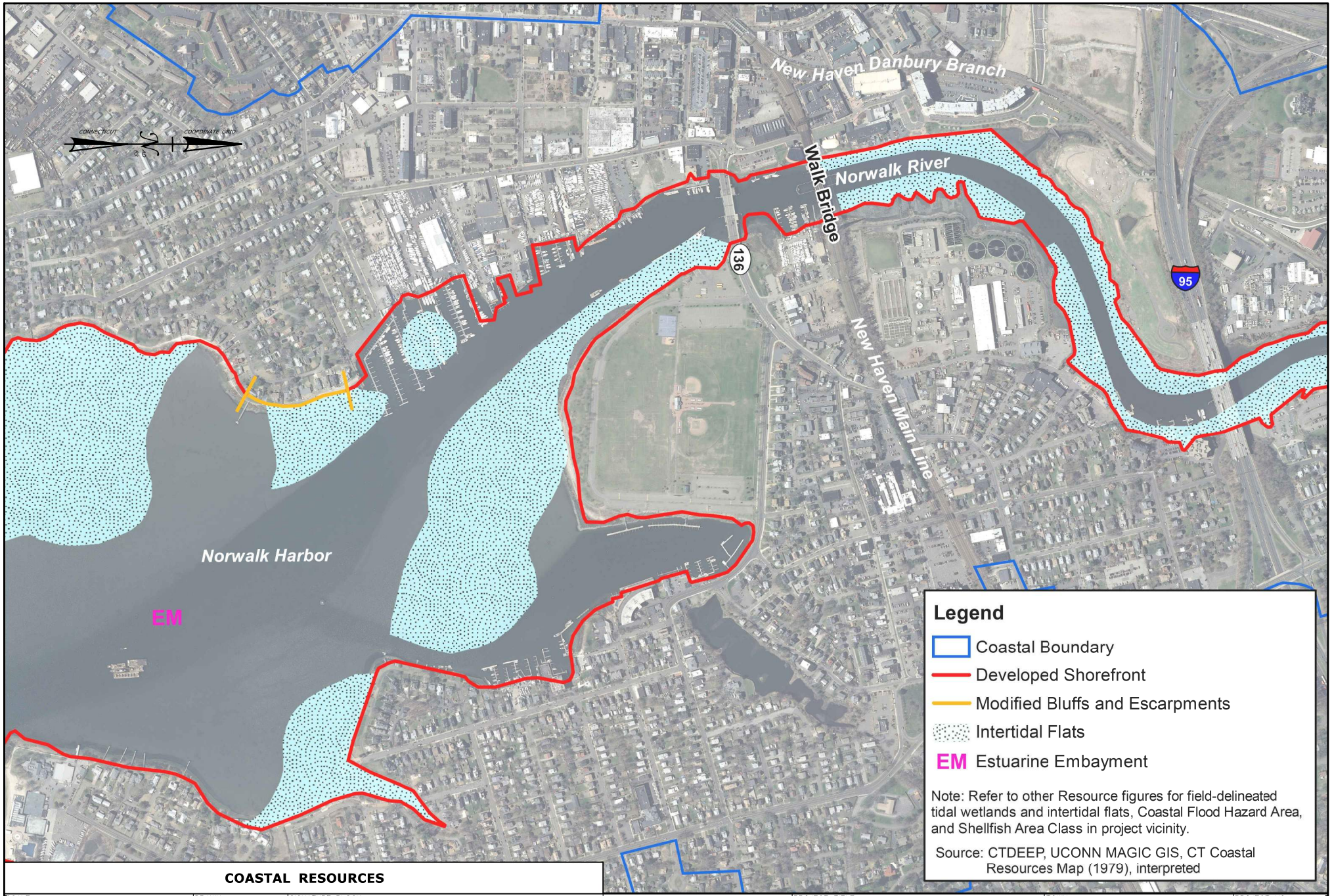
AQUATIC RESOURCES, SPECIES, AND CRITICAL HABITAT

SCALE: SCALE 1" = 800' (0 400 800)	DRAWN: H. UPSHAW CHECKED: T. ADINOLFI APPROVED: C. BROWN	SIGNATURE BLOCK:	STATE OF CONNECTICUT DEPARTMENT OF TRANSPORTATION	PROJECT TITLE: WALK BRIDGE REPLACEMENT OVER THE NORWALK RIVER BRIDGE NO. 04288R/MP 41.5	TOWN: NORWALK DRAWING TITLE: RESOURCE MAP (SHEET 1 OF 4)	PROJECT NO.: 0301-0176 DATE: REV 7-31-20 DRAWING NO.: GEN-4



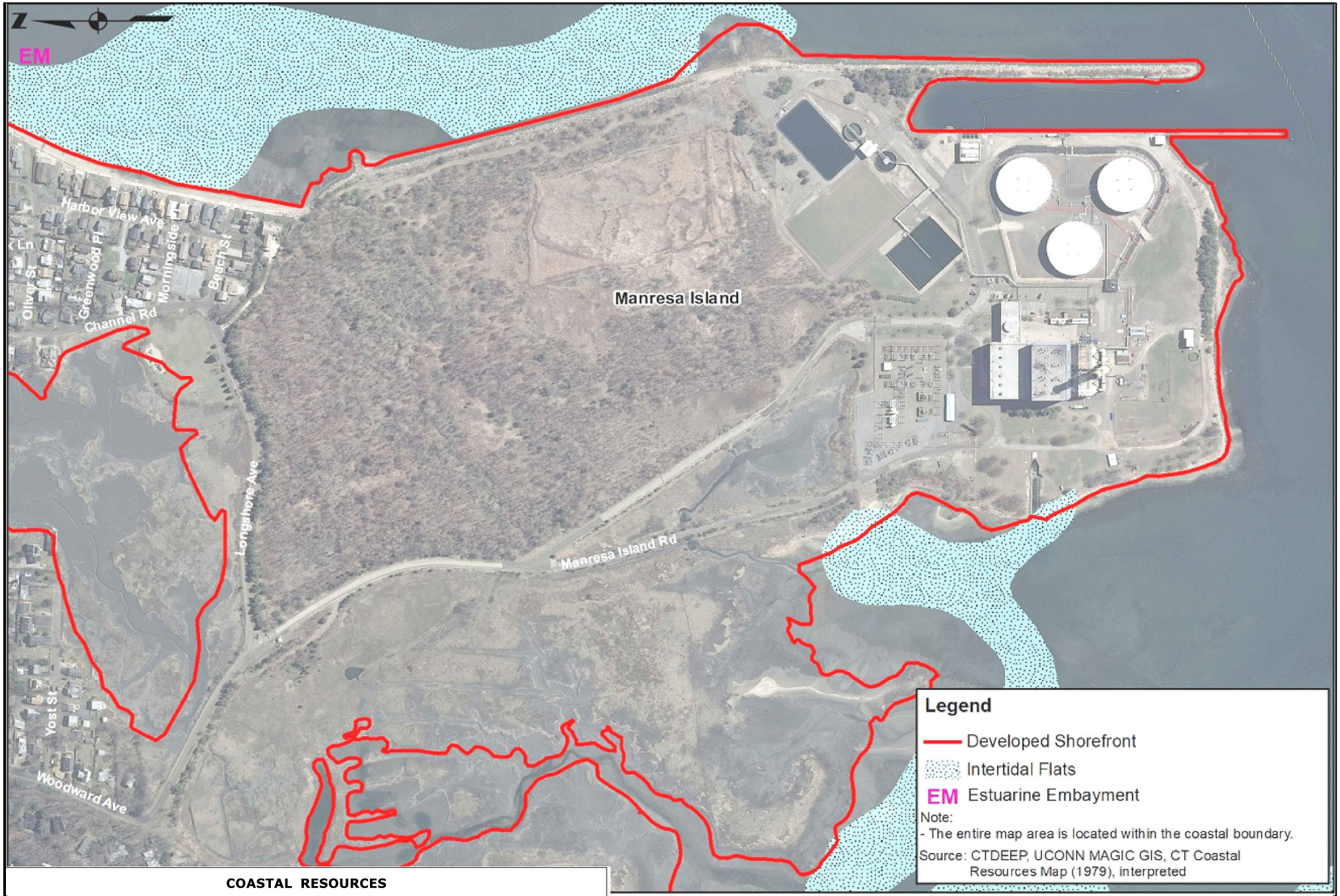
AQUATIC RESOURCES, SPECIES, AND CRITICAL HABITAT

SCALE: SCALE 1" = 400' (0 200 400)	DRAWN: H. UPSHAW CHECKED: T. ADINOLFI APPROVED: C. BROWN	SIGNATURE BLOCK:	STATE OF CONNECTICUT DEPARTMENT OF TRANSPORTATION	PROJECT TITLE: WALK BRIDGE REPLACEMENT OVER THE NORWALK RIVER BRIDGE NO. 04288R/MP 41.5	TOWN: NORWALK DRAWING TITLE: RESOURCE MAP (SHEET 2 OF 4)	PROJECT NO.: 0301-0176 DATE: REV 7-31-20 DRAWING NO.: GEN-4A



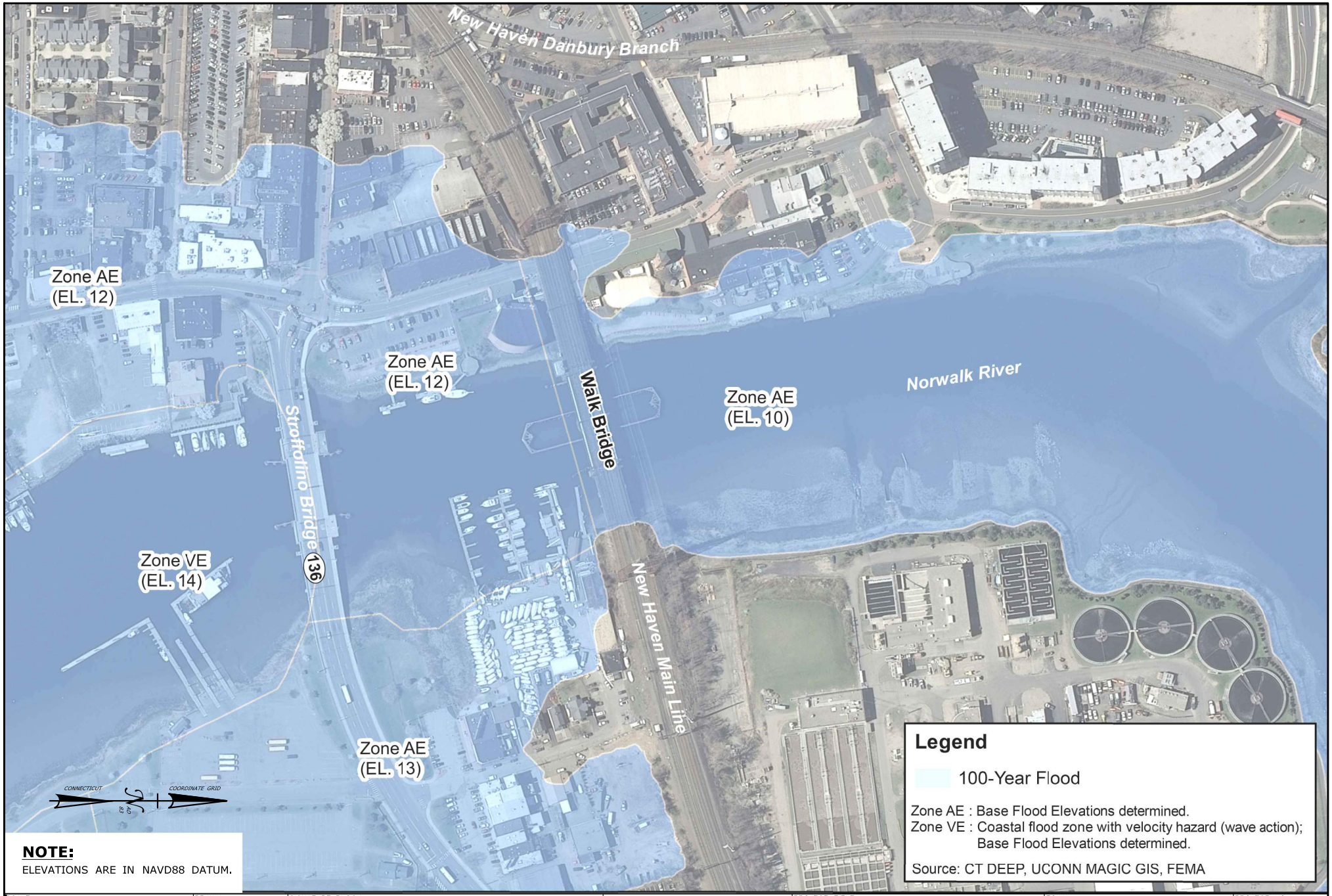
COASTAL RESOURCES

SCALE: SCALE 1" = 800' (0 400 800)	DRAWN: H. UPSHAW CHECKED: T. ADINOLFI APPROVED: C. BROWN	SIGNATURE BLOCK:	STATE OF CONNECTICUT DEPARTMENT OF TRANSPORTATION	PROJECT TITLE: WALK BRIDGE REPLACEMENT OVER THE NORWALK RIVER BRIDGE NO. 04288R/MP 41.5	TOWN: NORWALK DRAWING TITLE: RESOURCE MAP (SHEET 3 OF 4)	PROJECT NO.: 0301-0176 DATE: REV 7-31-20 DRAWING NO.: GEN-5



COASTAL RESOURCES

SCALE: SCALE 1" = 400' (0 200 400)	DRAWN: H. UPSHAW CHECKED: T. ADINOLFI APPROVED: C. BROWN	SIGNATURE BLOCK:	STATE OF CONNECTICUT DEPARTMENT OF TRANSPORTATION	PROJECT TITLE: WALK BRIDGE REPLACEMENT OVER THE NORWALK RIVER BRIDGE NO. 04288R/MP 41.5	TOWN: NORWALK DRAWING TITLE: RESOURCE MAP (SHEET 4 OF 4)	PROJECT NO.: 0301-0176 DATE: REV 7-31-20 DRAWING NO.: GEN-5A

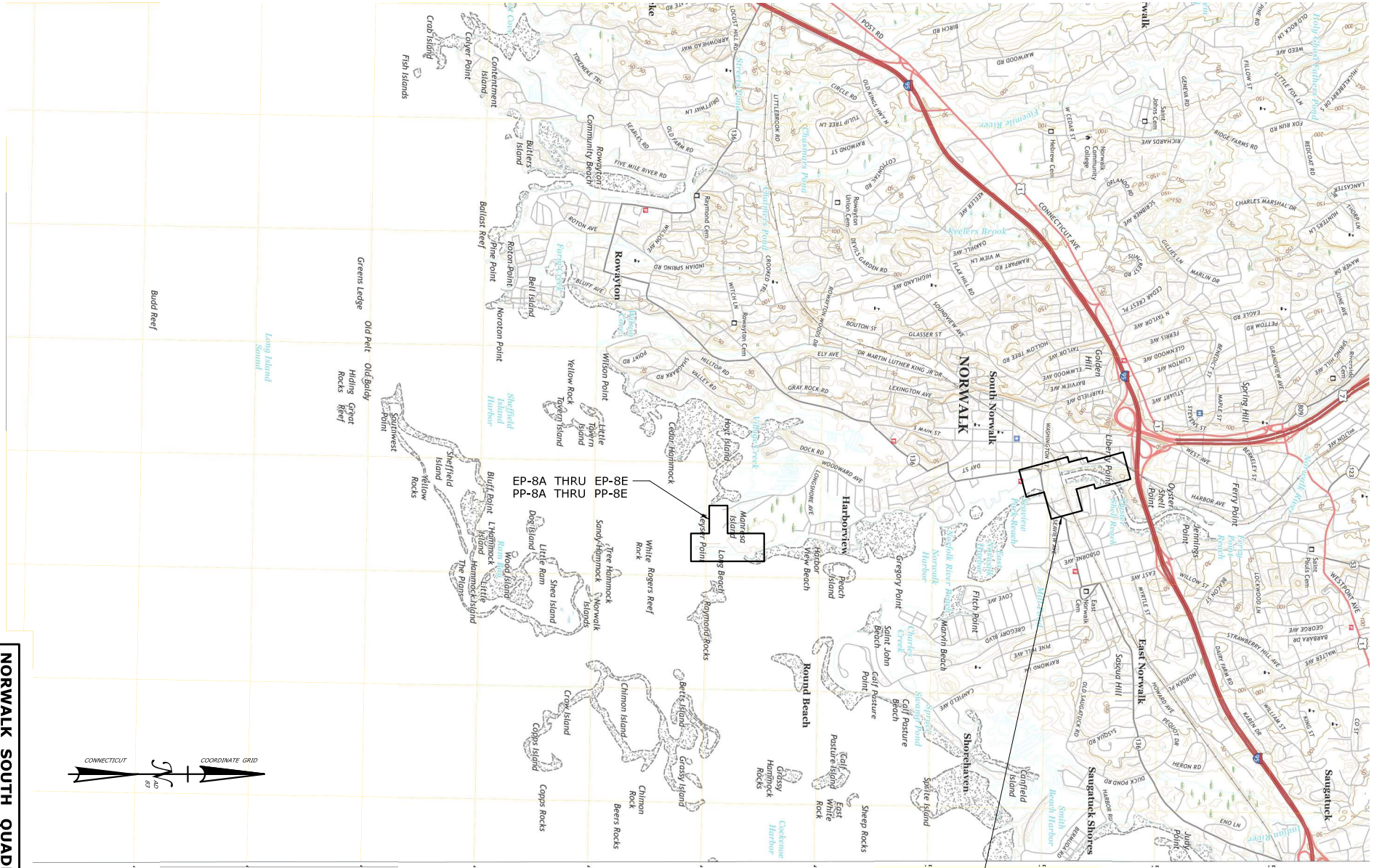


NOTE:
ELEVATIONS ARE IN NAVD88 DATUM.

SCALE: SCALE 1" = 250' (0 125 250)	DRAWN: H. UPSHAW CHECKED: T. ADINOLFI APPROVED: C. BROWN	SIGNATURE BLOCK:	STATE OF CONNECTICUT DEPARTMENT OF TRANSPORTATION	PROJECT TITLE: WALK BRIDGE REPLACEMENT OVER THE NORWALK RIVER BRIDGE NO. 04288R/MP 41.5	TOWN: NORWALK DRAWING TITLE: FLOOD ZONE MAP (SHEET 1 OF 2)	PROJECT NO.: 0301-0176 DATE: REV 7-31-20 DRAWING NO.: GEN-6

NOTE:
ELEVATIONS ARE IN NAVD88 DATUM.

SCALE: SCALE 1" = 400' (0 200 400)	DRAWN: H. UPSHAW CHECKED: T. ADINOLFI APPROVED: C. BROWN	SIGNATURE BLOCK:	STATE OF CONNECTICUT DEPARTMENT OF TRANSPORTATION	PROJECT TITLE: WALK BRIDGE REPLACEMENT OVER THE NORWALK RIVER BRIDGE NO. 04288R/MP 41.5	TOWN: NORWALK DRAWING TITLE: FLOOD ZONE MAP (SHEET 2 OF 2)	PROJECT NO.: 0301-0176 DATE: REV 7-31-20 DRAWING NO.: GEN-6A



NORWALK SOUTH QUADRANGLE
CONNECTICUT-NEW YORK
7.5-MINUTE SERIES

SCALE:
SCALE 1" = 4000'
0 2000 4000

DRAWN: W. GREGORY
CHECKED: T. ADINOLFI
APPROVED: C. BROWN

SIGNATURE BLOCK:

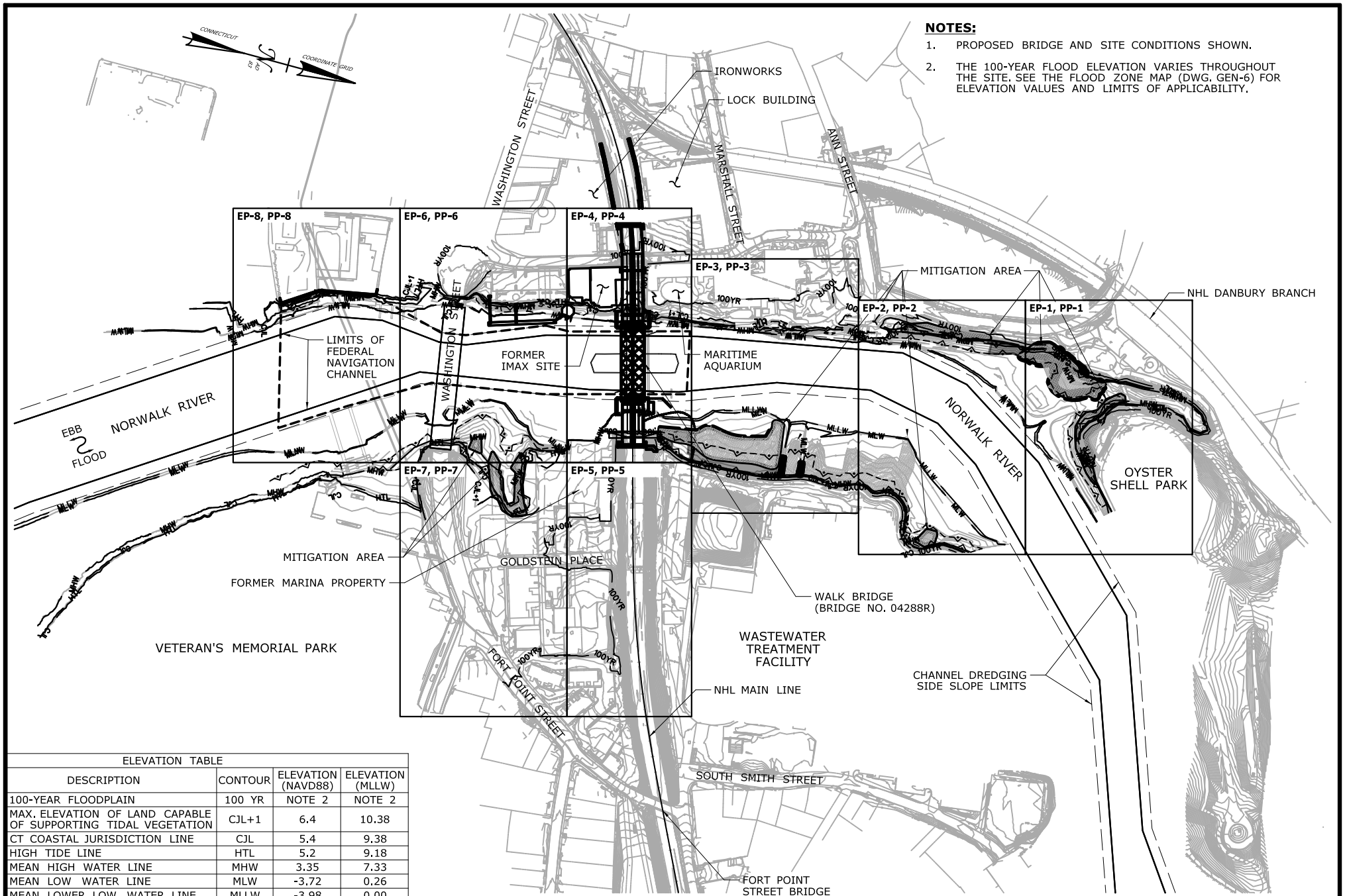
STATE OF CONNECTICUT
DEPARTMENT OF TRANSPORTATION

PROJECT TITLE:
WALK BRIDGE REPLACEMENT OVER THE NORWALK RIVER BRIDGE NO. 04288R/MP 41.5

TOWN: **NORWALK**

DRAWING TITLE:
SITE PLAN/KEY MAP (SHEET 1 OF 3)

PROJECT NO.: **0301-0176**
DATE: **REV 7-31-20**
DRAWING NO.: **GEN-6B**



ELEVATION TABLE			
DESCRIPTION	CONTOUR	ELEVATION (NAVD88)	ELEVATION (MLLW)
100-YEAR FLOODPLAIN	100 YR	NOTE 2	NOTE 2
MAX. ELEVATION OF LAND CAPABLE OF SUPPORTING TIDAL VEGETATION	CJL+1	6.4	10.38
CT COASTAL JURISDICTION LINE	CJL	5.4	9.38
HIGH TIDE LINE	HTL	5.2	9.18
MEAN HIGH WATER LINE	MHW	3.35	7.33
MEAN LOW WATER LINE	MLW	-3.72	0.26
MEAN LOWER LOW WATER LINE	MLLW	-3.98	0.00

SCALE: SCALE 1" = 400' (0, 200, 400)

DRAWN: H. UPSHAW
CHECKED: T. ADINOLFI
APPROVED: C. BROWN

SIGNATURE BLOCK:

STATE OF CONNECTICUT
DEPARTMENT OF TRANSPORTATION

PROJECT TITLE:
WALK BRIDGE REPLACEMENT OVER THE NORWALK RIVER BRIDGE NO. 04288R/MP 41.5

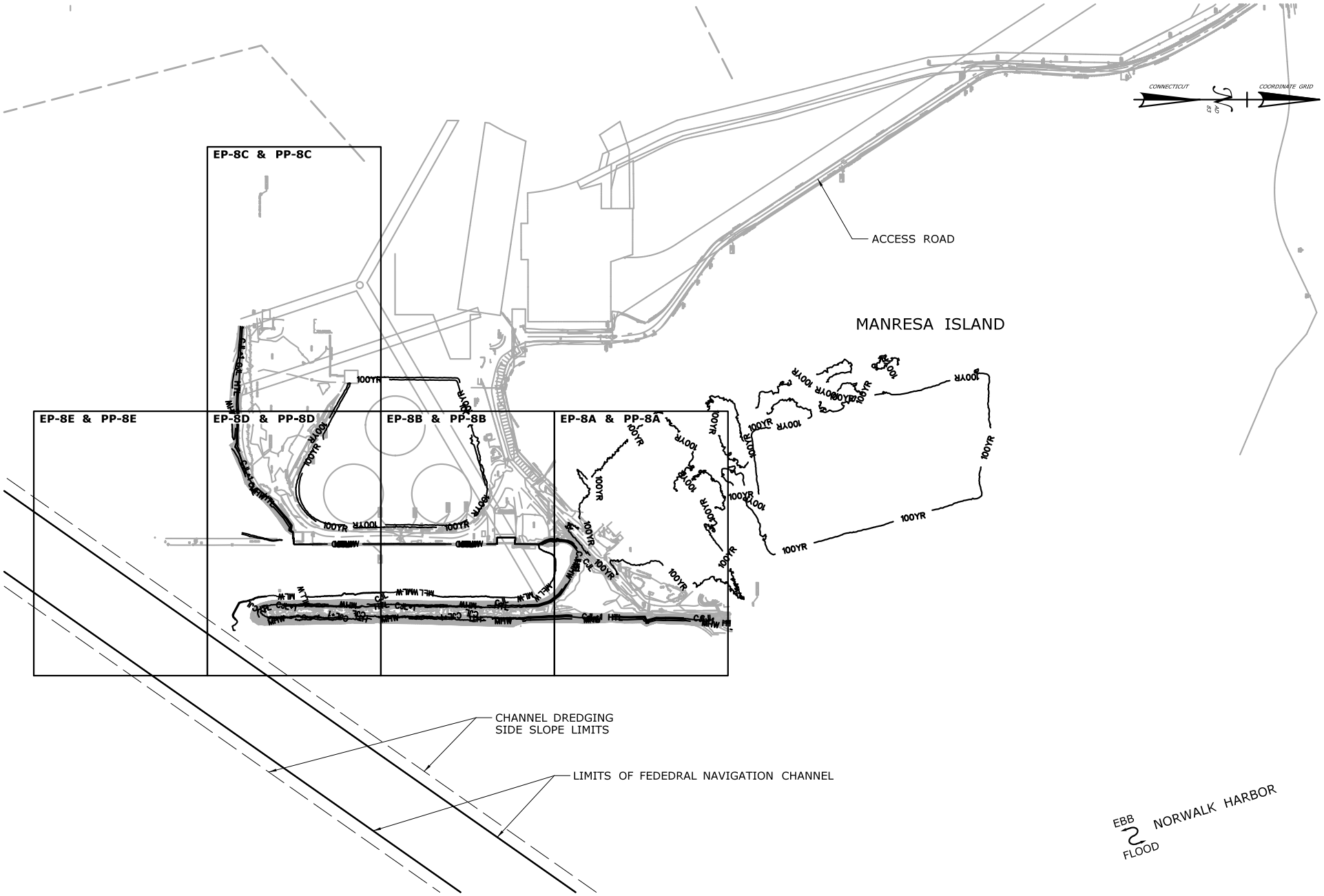
TOWN: **NORWALK**

DRAWING TITLE:
SITE PLAN/KEY MAP (SHEET 2 OF 3)

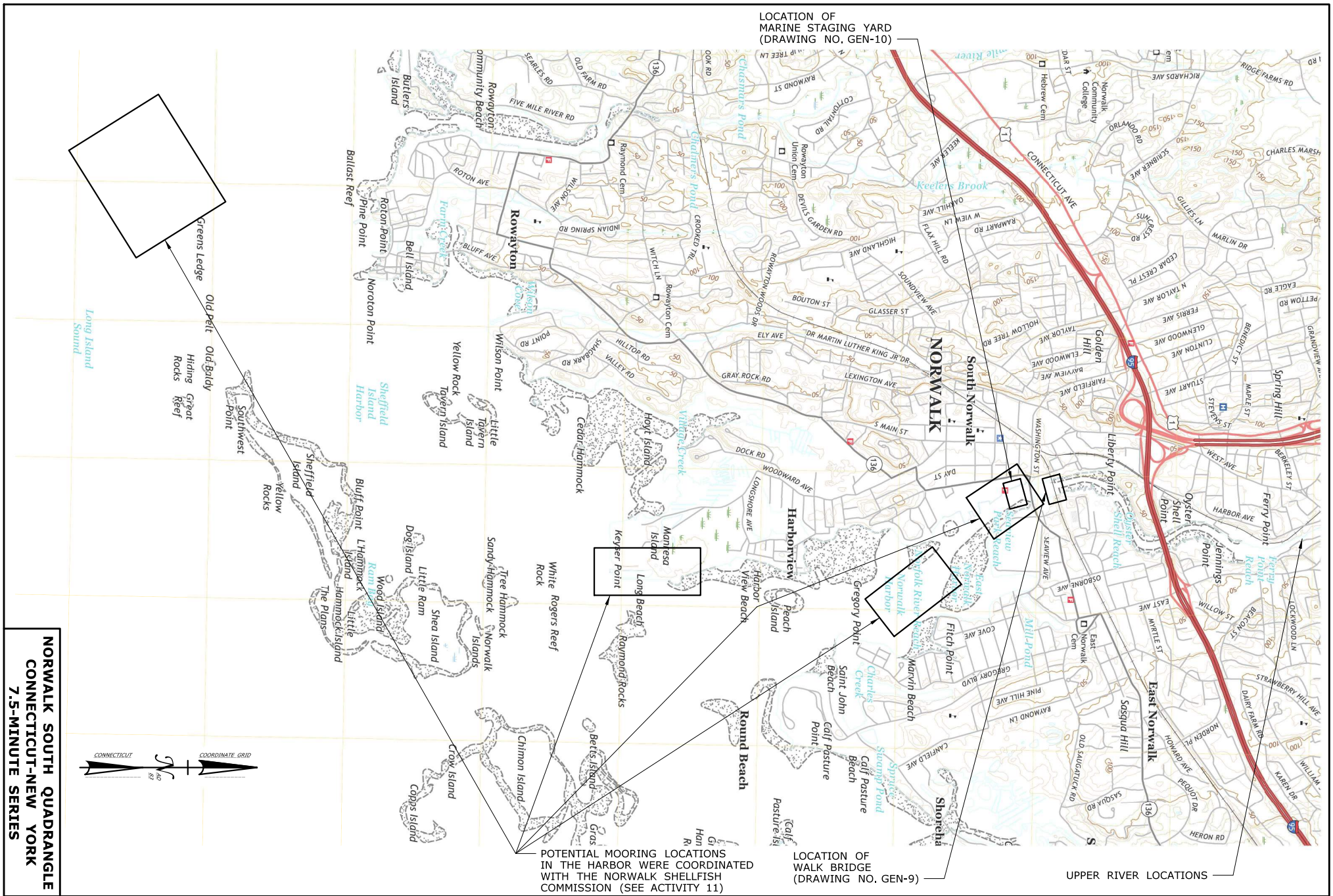
PROJECT NO.: **0301-0176**

DATE: **REV 02-23-21**

DRAWING NO.: **GEN-7**

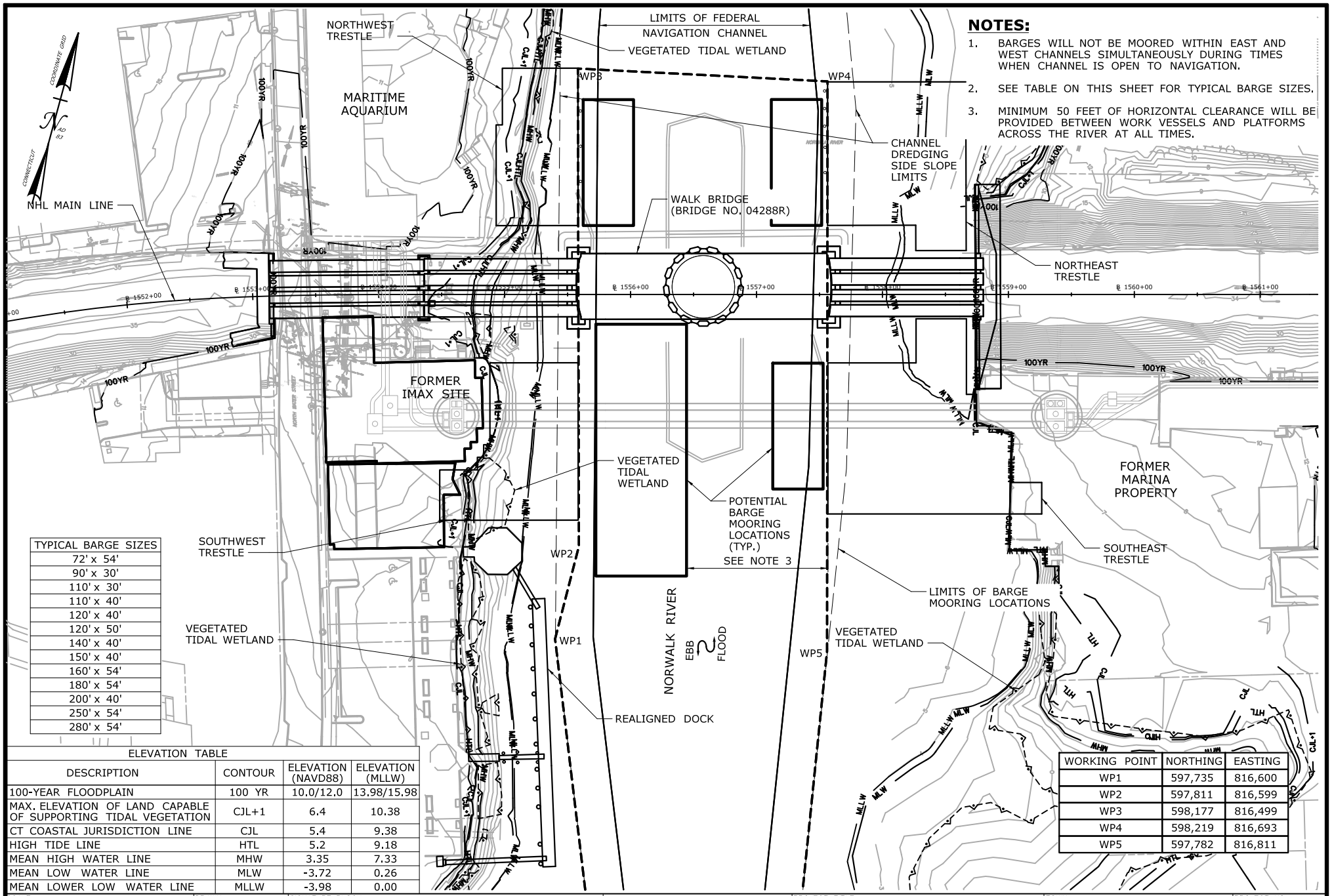


SCALE: SCALE 1" = 400' (0 200 400)	DRAWN: H. UPSHAW CHECKED: T. ADINOLFI APPROVED: C. BROWN	SIGNATURE BLOCK:	STATE OF CONNECTICUT DEPARTMENT OF TRANSPORTATION	PROJECT TITLE: **WALK BRIDGE REPLACEMENT OVER THE NORWALK RIVER BRIDGE NO. 04288R/MP 41.5**	TOWN: **NORWALK** DRAWING TITLE: **SITE PLAN/KEY MAP (SHEET 3 OF 3)**	PROJECT NO.: **0301-0176** DATE: **REV 7-31-20** DRAWING NO.: **GEN-7A**



NORWALK SOUTH QUADRANGLE
CONNECTICUT-NEW YORK
7.5-MINUTE SERIES

SCALE: SCALE 1" = 3000' (0 / 1500 / 3000)	DRAWN: H. UPSHAW CHECKED: T. ADINOLFI APPROVED: C. BROWN	SIGNATURE BLOCK:	STATE OF CONNECTICUT DEPARTMENT OF TRANSPORTATION	PROJECT TITLE: **WALK BRIDGE REPLACEMENT OVER THE NORWALK RIVER BRIDGE NO. 04288R/MP 41.5**	TOWN: **NORWALK** DRAWING TITLE: **VESSEL BERTHING PLAN OVERALL (SHEET 1 OF 4)**	PROJECT NO.: **0301-0176** DATE: **REV 7-31-20** DRAWING NO.: **GEN-8**



NOTES:

1. BARGES WILL NOT BE MOORED WITHIN EAST AND WEST CHANNELS SIMULTANEOUSLY DURING TIMES WHEN CHANNEL IS OPEN TO NAVIGATION.
2. SEE TABLE ON THIS SHEET FOR TYPICAL BARGE SIZES.
3. MINIMUM 50 FEET OF HORIZONTAL CLEARANCE WILL BE PROVIDED BETWEEN WORK VESSELS AND PLATFORMS ACROSS THE RIVER AT ALL TIMES.

TYPICAL BARGE SIZES
72' x 54'
90' x 30'
110' x 30'
110' x 40'
120' x 40'
120' x 50'
140' x 40'
150' x 40'
160' x 54'
180' x 54'
200' x 40'
250' x 54'
280' x 54'

ELEVATION TABLE			
DESCRIPTION	CONTOUR	ELEVATION (NAVD88)	ELEVATION (MLLW)
100-YEAR FLOODPLAIN	100 YR	10.0/12.0	13.98/15.98
MAX. ELEVATION OF LAND CAPABLE OF SUPPORTING TIDAL VEGETATION	CJL+1	6.4	10.38
CT COASTAL JURISDICTION LINE	CJL	5.4	9.38
HIGH TIDE LINE	HTL	5.2	9.18
MEAN HIGH WATER LINE	MHW	3.35	7.33
MEAN LOW WATER LINE	MLW	-3.72	0.26
MEAN LOWER LOW WATER LINE	MLLW	-3.98	0.00

WORKING POINT	NORTHING	EASTING
WP1	597,735	816,600
WP2	597,811	816,599
WP3	598,177	816,499
WP4	598,219	816,693
WP5	597,782	816,811

SCALE: SCALE 1" = 100'
0 50 100

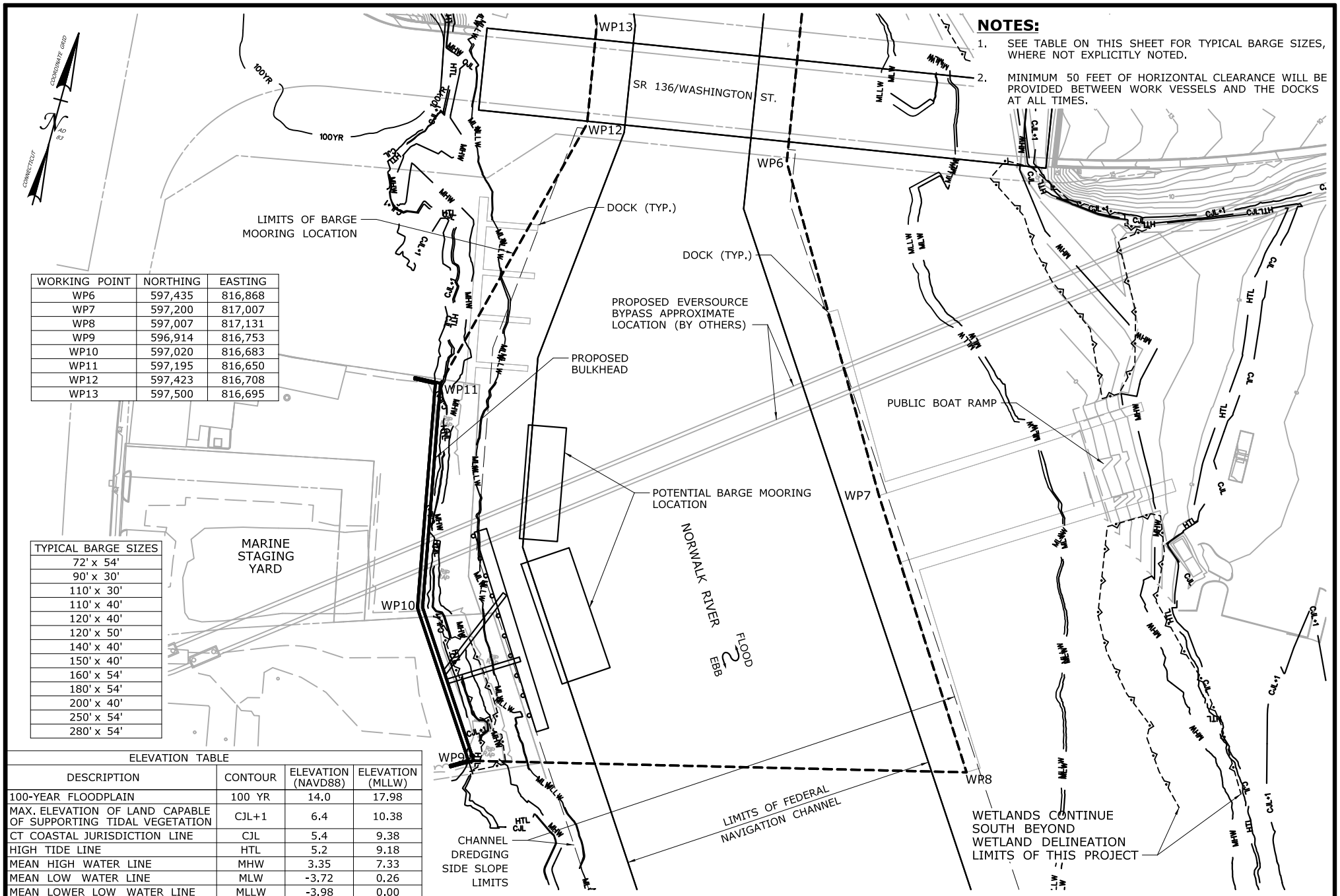
DRAWN: H. UPSHAW
CHECKED: T. ADINOLFI
APPROVED: C. BROWN

SIGNATURE BLOCK:

STATE OF CONNECTICUT
DEPARTMENT OF TRANSPORTATION

PROJECT TITLE:
WALK BRIDGE REPLACEMENT OVER THE NORWALK RIVER BRIDGE NO. 04288R/MP 41.5

TOWN: **NORWALK**
PROJECT NO.: **0301-0176**
DRAWING TITLE: **VESSEL BERTHING PLAN WALK BRIDGE (SHEET 2 OF 4)**
DATE: **REV 05-19-21**
DRAWING NO.: **GEN-9**



WORKING POINT	NORTHING	EASTING
WP6	597,435	816,868
WP7	597,200	817,007
WP8	597,007	817,131
WP9	596,914	816,753
WP10	597,020	816,683
WP11	597,195	816,650
WP12	597,423	816,708
WP13	597,500	816,695

TYPICAL BARGE SIZES
72' x 54'
90' x 30'
110' x 30'
110' x 40'
120' x 40'
120' x 50'
140' x 40'
150' x 40'
160' x 54'
180' x 54'
200' x 40'
250' x 54'
280' x 54'

ELEVATION TABLE			
DESCRIPTION	CONTOUR	ELEVATION (NAVD88)	ELEVATION (MLLW)
100-YEAR FLOODPLAIN	100 YR	14.0	17.98
MAX. ELEVATION OF LAND CAPABLE OF SUPPORTING TIDAL VEGETATION	CJL+1	6.4	10.38
CT COASTAL JURISDICTION LINE	CJL	5.4	9.38
HIGH TIDE LINE	HTL	5.2	9.18
MEAN HIGH WATER LINE	MHW	3.35	7.33
MEAN LOW WATER LINE	MLW	-3.72	0.26
MEAN LOWER LOW WATER LINE	MLLW	-3.98	0.00

SCALE:
SCALE 1" = 100'
0 50 100

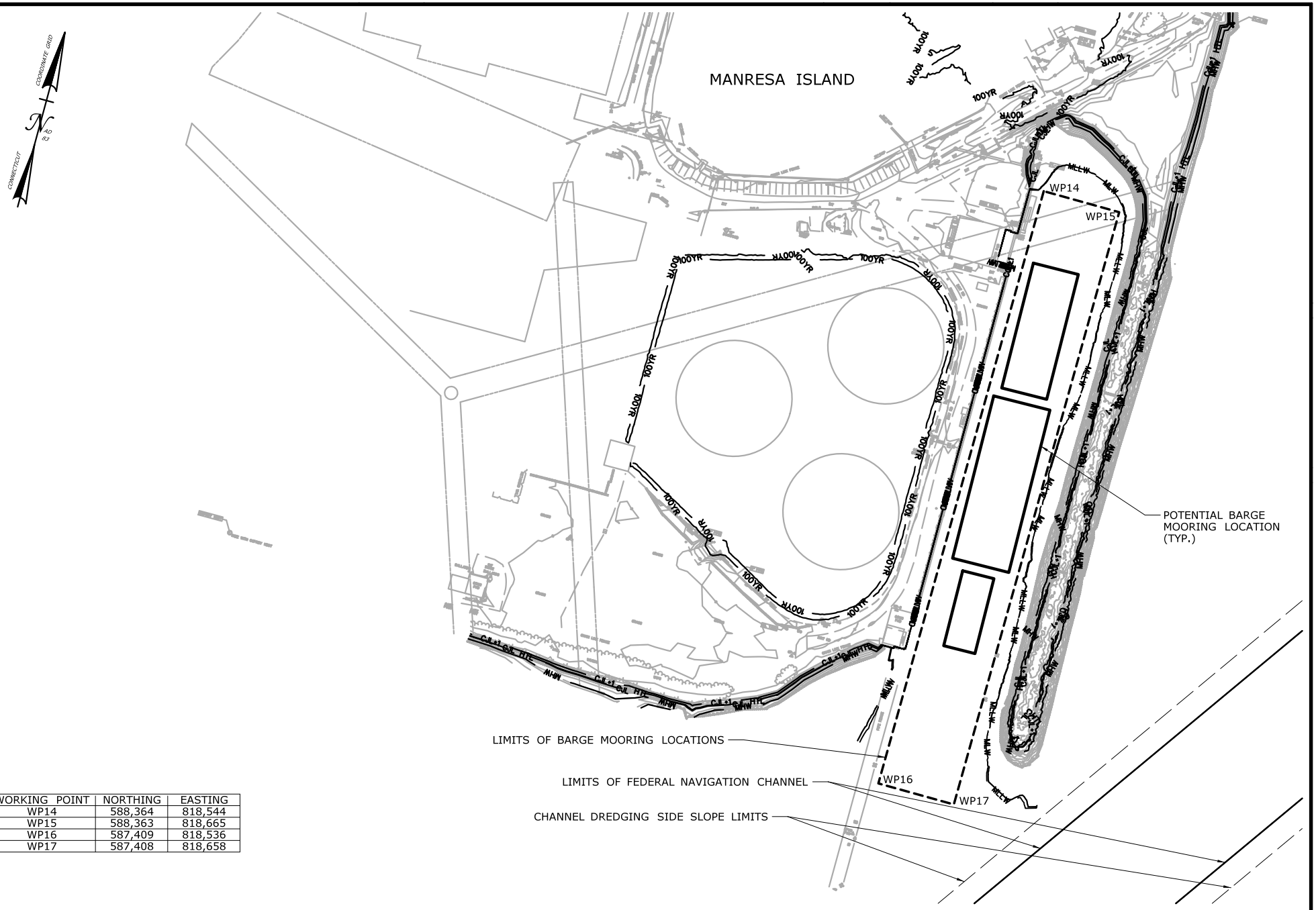
DRAWN: H. UPSHAW
CHECKED: T. ADINOLFI
APPROVED: C. BROWN

SIGNATURE BLOCK:

STATE OF CONNECTICUT
DEPARTMENT OF TRANSPORTATION

PROJECT TITLE:
WALK BRIDGE REPLACEMENT OVER THE NORWALK RIVER BRIDGE NO. 04288R/MP 41.5

TOWN: **NORWALK**
PROJECT NO.: **0301-0176**
DRAWING TITLE: **VESSEL BERTHING PLAN MARINE STAGING YARD (SHEET 3 OF 4)**
DATE: **REV 05-19-21**
DRAWING NO.: **GEN-10**



WORKING POINT	NORTHING	EASTING
WP14	588,364	818,544
WP15	588,363	818,665
WP16	587,409	818,536
WP17	587,408	818,658

SCALE:

SCALE 1" = 200'

0 100 200

DRAWN: W. GREGORY

CHECKED: T. ADINOLFI

APPROVED: C. BROWN

SIGNATURE BLOCK:

STATE OF CONNECTICUT
DEPARTMENT OF TRANSPORTATION

PROJECT TITLE:

WALK BRIDGE REPLACEMENT OVER THE NORWALK RIVER BRIDGE NO. 04288R/MP 41.5

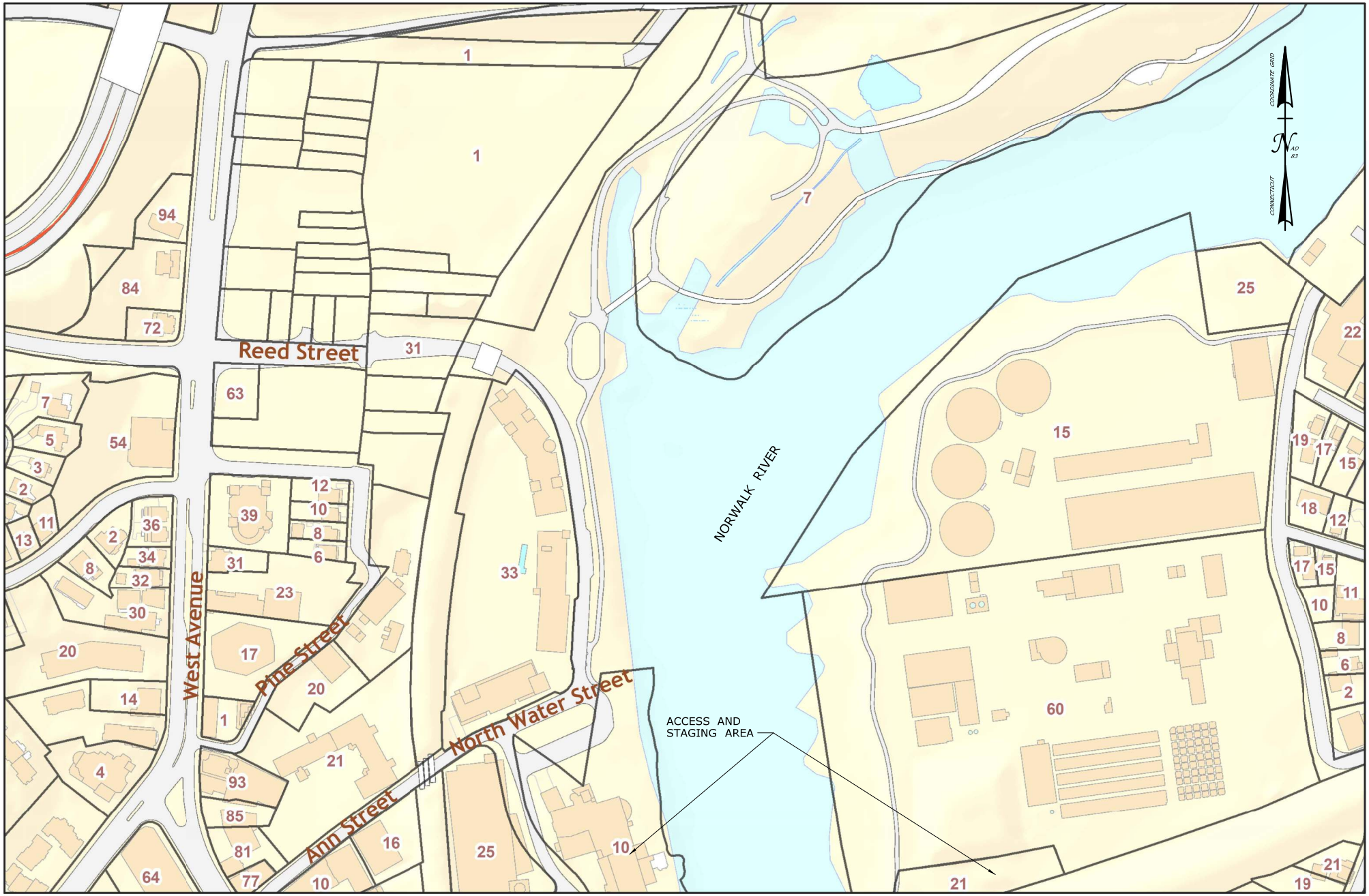
TOWN: **NORWALK**

PROJECT NO.: **0301-0176**

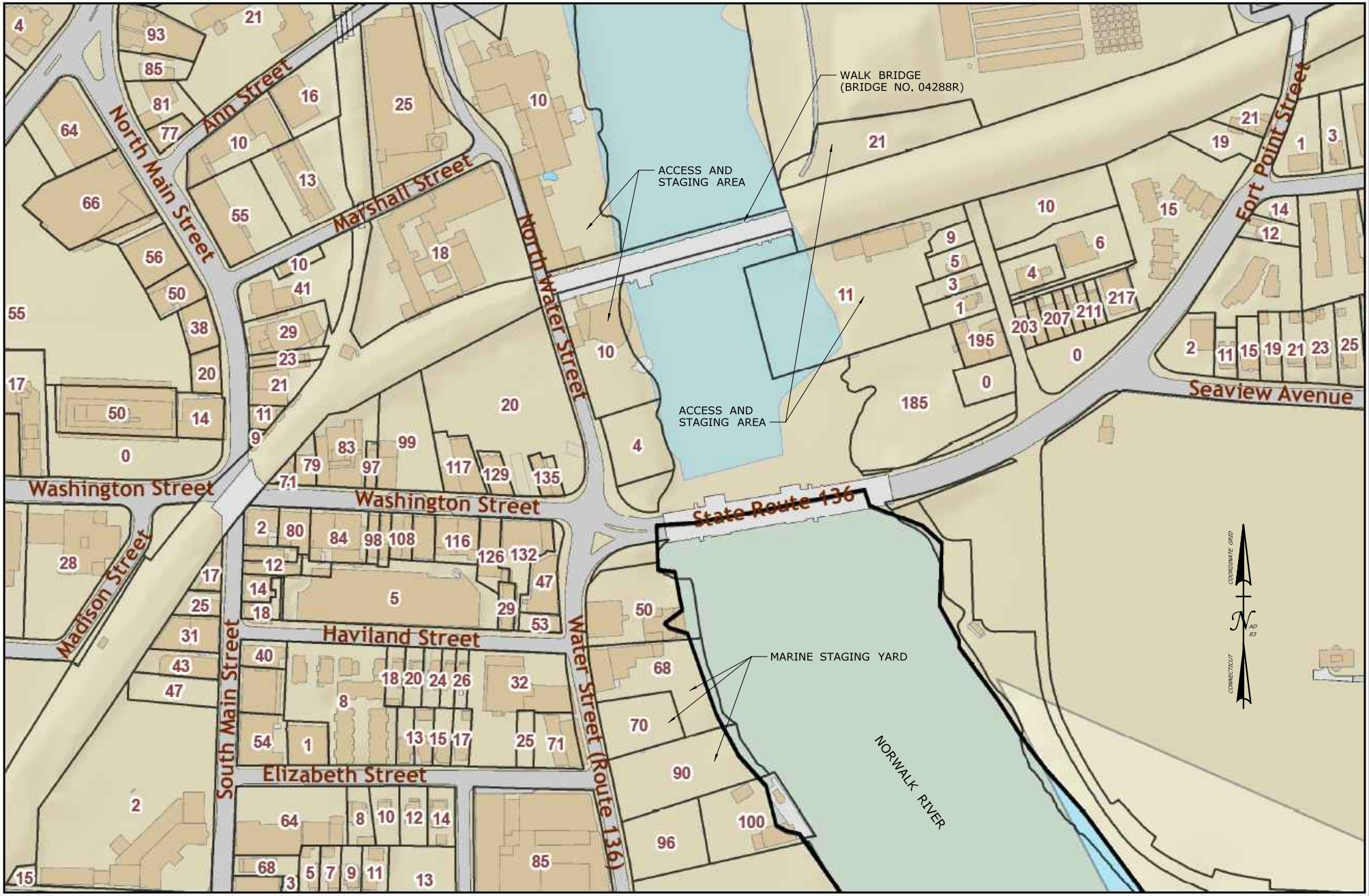
DRAWING TITLE: **VESSEL BERTHING PLAN MANRESA ISLAND (SHEET 4 OF 4)**

DATE: **REV 7-31-20**

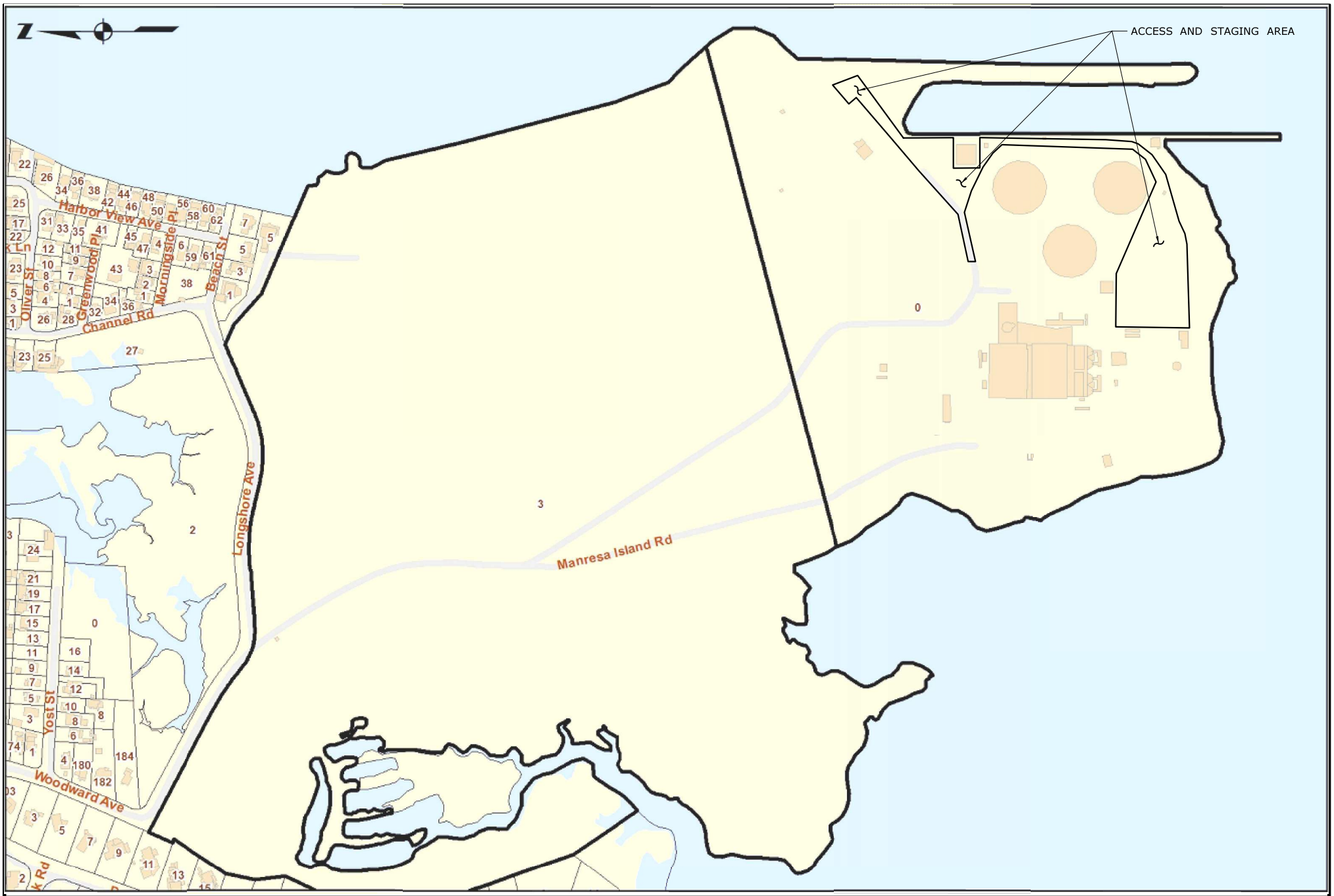
DRAWING NO.: **GEN-10A**



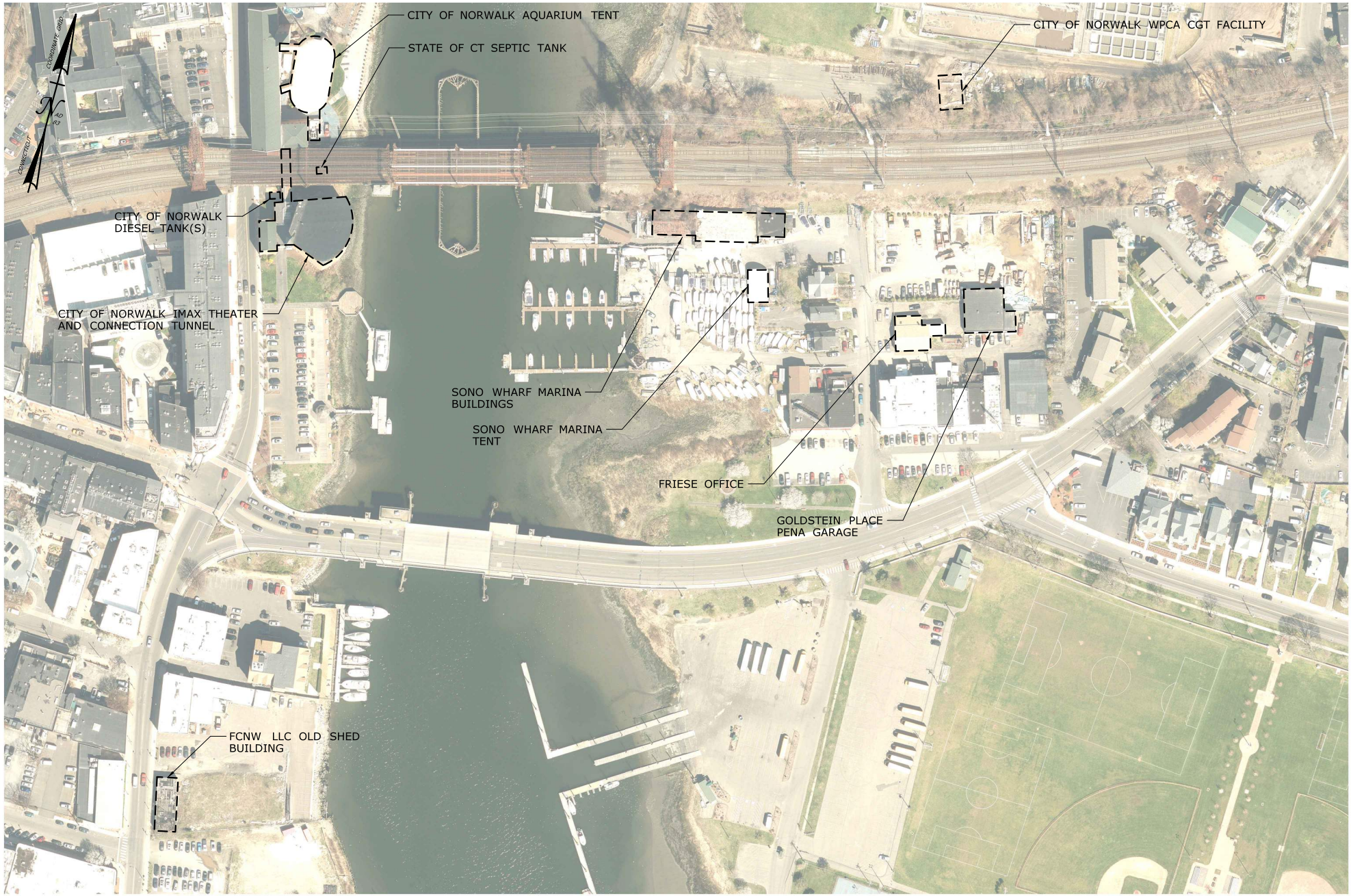
SCALE:	DRAWN:	SIGNATURE BLOCK:		PROJECT TITLE:	TOWN:	PROJECT NO.:
NOT TO SCALE	H. UPSHAW		STATE OF CONNECTICUT DEPARTMENT OF TRANSPORTATION	WALK BRIDGE REPLACEMENT OVER THE NORWALK RIVER BRIDGE NO. 04288R/MP 41.5	NORWALK	0301-0176
	CHECKED: T. ADINOLFI				DRAWING TITLE: PARCEL MAP (SHEET 1 OF 3)	DATE: REV 7-31-20
	APPROVED: C. BROWN					DRAWING NO.: GEN-11



SCALE: NOT TO SCALE	DRAWN: H. UPSHAW CHECKED: T. ADINOLFI APPROVED: C. BROWN	SIGNATURE BLOCK:	STATE OF CONNECTICUT DEPARTMENT OF TRANSPORTATION	PROJECT TITLE: **WALK BRIDGE REPLACEMENT OVER THE NORWALK RIVER BRIDGE NO. 04288R/MP 41.5**	TOWN: **NORWALK** DRAWING TITLE: **PARCEL MAP (SHEET 2 OF 3)**	PROJECT NO.: **0301-0176** DATE: **REV 05-19-21** DRAWING NO.: **GEN-12**



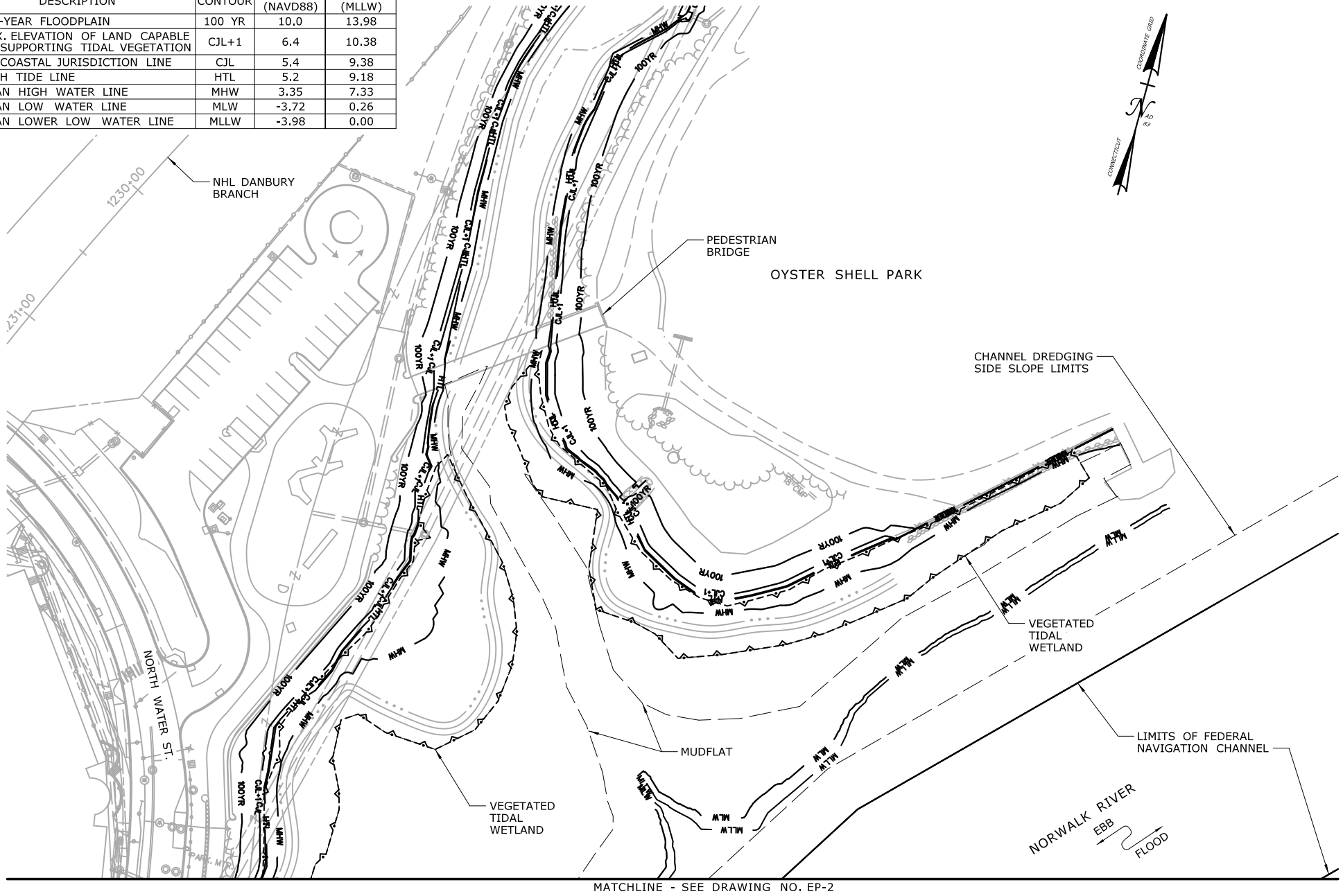
SCALE: NOT TO SCALE	DRAWN: H. UPSHAW CHECKED: T. ADINOLFI APPROVED: C. BROWN	SIGNATURE BLOCK:	STATE OF CONNECTICUT DEPARTMENT OF TRANSPORTATION	PROJECT TITLE: **WALK BRIDGE REPLACEMENT OVER THE NORWALK RIVER BRIDGE NO. 04288R/MP 41.5**	TOWN: **NORWALK** DRAWING TITLE: **PARCEL MAP (SHEET 3 OF 3)**	PROJECT NO.: **0301-0176** DATE: **REV 7-31-20** DRAWING NO.: **GEN-13**



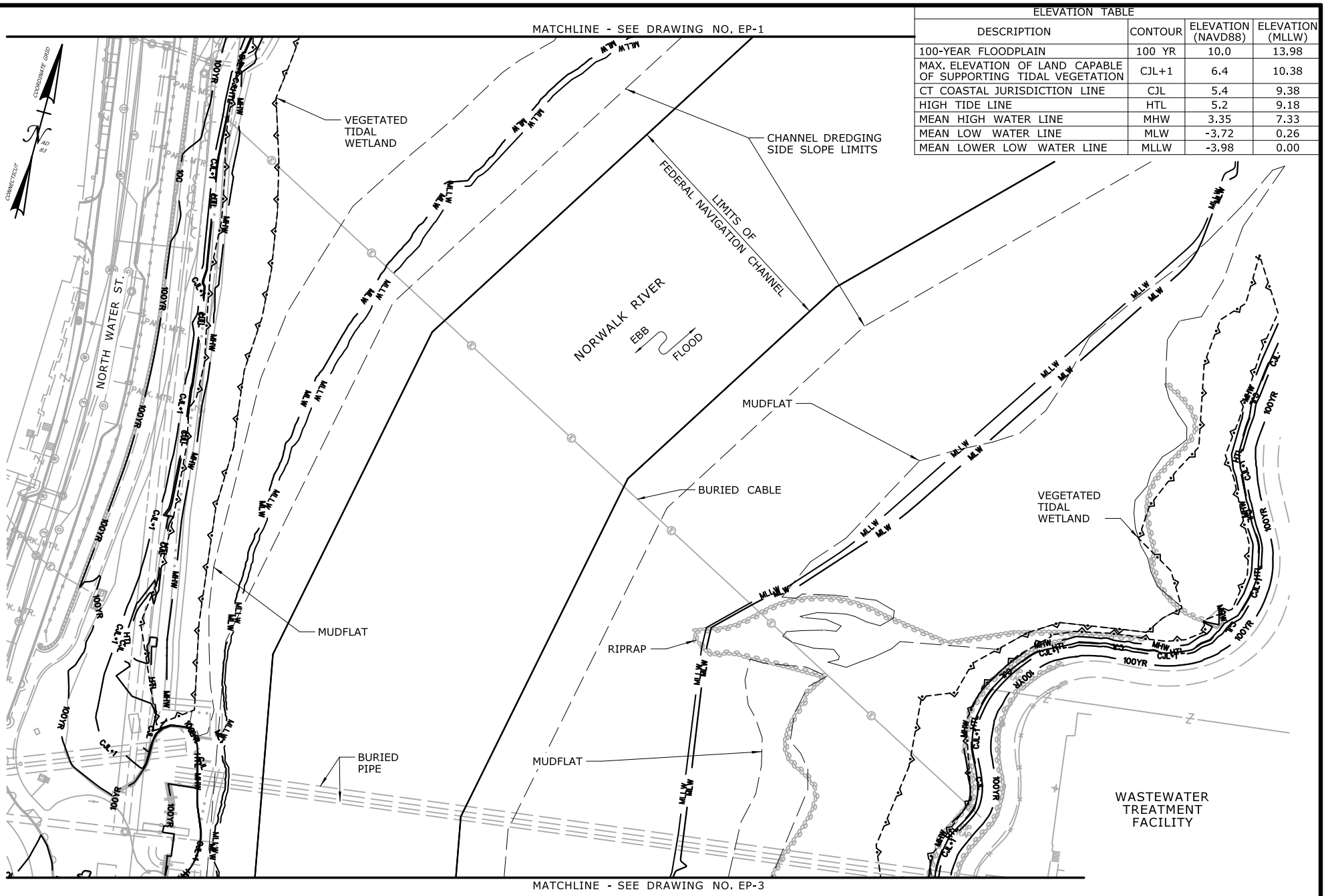
SCALE: SCALE 1" = 400' (0 200 400)	DRAWN: T. ADINOLFI CHECKED: L. COLES APPROVED: C. BROWN	SIGNATURE BLOCK:	STATE OF CONNECTICUT DEPARTMENT OF TRANSPORTATION	PROJECT TITLE: WALK BRIDGE REPLACEMENT OVER THE NORWALK RIVER BRIDGE NO. 04288R/MP 41.5	TOWN: NORWALK DRAWING TITLE: BUILDING DEMOLITION MAP	PROJECT NO.: 0301-0176 DATE: REV 02-23-21 DRAWING NO.: GEN-14

ELEVATION TABLE

DESCRIPTION	CONTOUR	ELEVATION (NAVD88)	ELEVATION (MLLW)
100-YEAR FLOODPLAIN	100 YR	10.0	13.98
MAX. ELEVATION OF LAND CAPABLE OF SUPPORTING TIDAL VEGETATION	CJL+1	6.4	10.38
CT COASTAL JURISDICTION LINE	CJL	5.4	9.38
HIGH TIDE LINE	HTL	5.2	9.18
MEAN HIGH WATER LINE	MHW	3.35	7.33
MEAN LOW WATER LINE	MLW	-3.72	0.26
MEAN LOWER LOW WATER LINE	MLLW	-3.98	0.00



SCALE: SCALE 1" = 80' (0 40 80)	DRAWN: H. UPSHAW CHECKED: T. ADINOLFI APPROVED: C. BROWN	SIGNATURE BLOCK:	STATE OF CONNECTICUT DEPARTMENT OF TRANSPORTATION	PROJECT TITLE: WALK BRIDGE REPLACEMENT OVER THE NORWALK RIVER BRIDGE NO. 04288R/MP 41.5	TOWN: NORWALK DRAWING TITLE: PLAN EXISTING CONDITIONS (SHEET 1 OF 14)	PROJECT NO.: 0301-0176 DATE: REV 7-31-20 DRAWING NO.: EP-1



ELEVATION TABLE

DESCRIPTION	CONTOUR	ELEVATION (NAVD88)	ELEVATION (MLLW)
100-YEAR FLOODPLAIN	100 YR	10.0	13.98
MAX. ELEVATION OF LAND CAPABLE OF SUPPORTING TIDAL VEGETATION	CJL+1	6.4	10.38
CT COASTAL JURISDICTION LINE	CJL	5.4	9.38
HIGH TIDE LINE	HTL	5.2	9.18
MEAN HIGH WATER LINE	MHW	3.35	7.33
MEAN LOW WATER LINE	MLW	-3.72	0.26
MEAN LOWER LOW WATER LINE	MLLW	-3.98	0.00

SCALE:
SCALE 1" = 80'
0 40 80

DRAWN: H. UPSHAW
CHECKED: T. ADINOLFI
APPROVED: C. BROWN

SIGNATURE BLOCK:

STATE OF CONNECTICUT
DEPARTMENT OF TRANSPORTATION

PROJECT TITLE:
WALK BRIDGE REPLACEMENT OVER THE NORWALK RIVER BRIDGE NO. 04288R/MP 41.5

TOWN: **NORWALK**

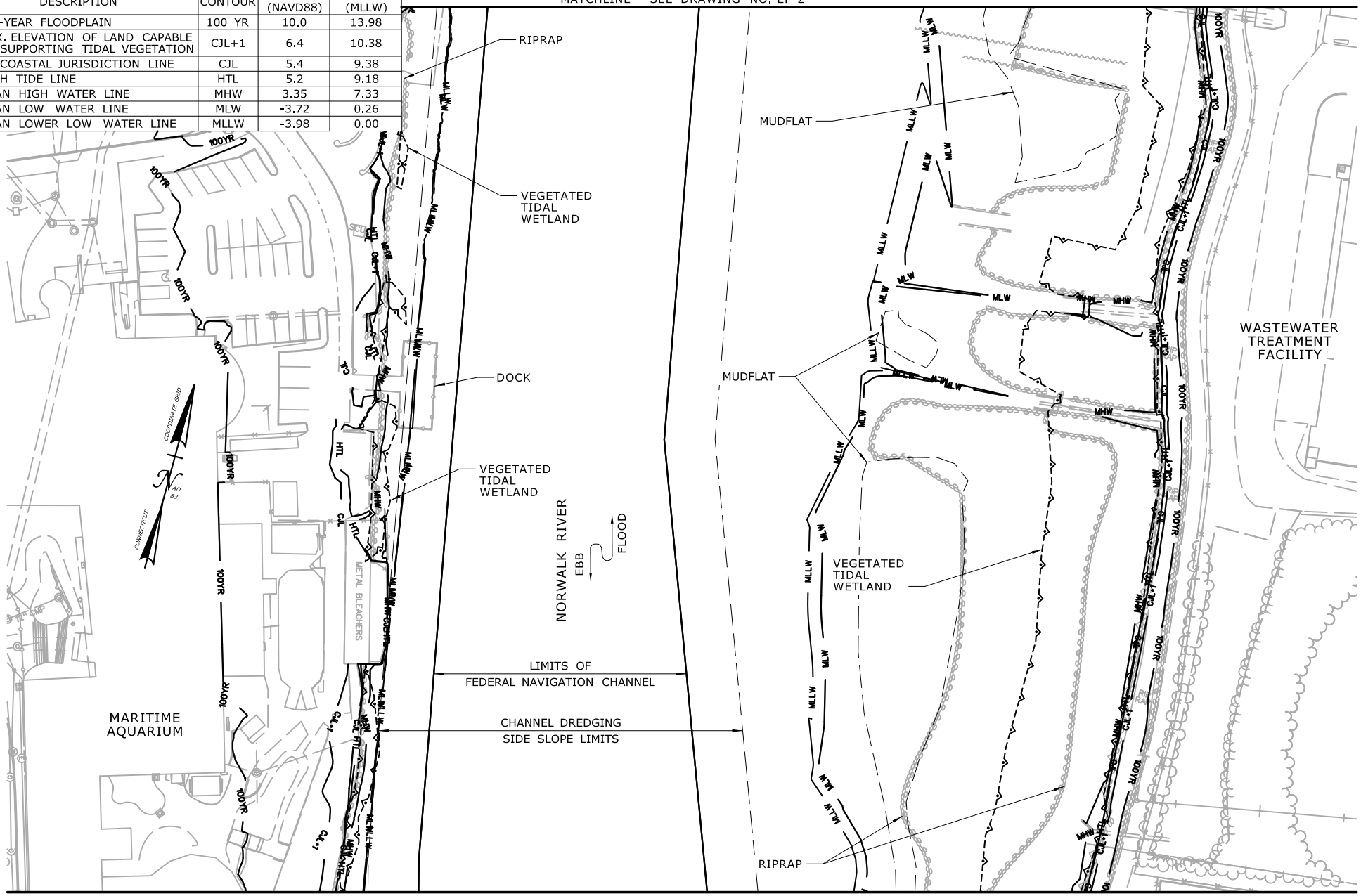
DRAWING TITLE:
PLAN EXISTING CONDITIONS (SHEET 2 OF 14)

PROJECT NO.: **0301-0176**

DATE: **REV 7-31-20**

DRAWING NO.: **EP-2**

ELEVATION TABLE			
DESCRIPTION	CONTOUR	ELEVATION (NAVD88)	ELEVATION (MLLW)
100-YEAR FLOODPLAIN	100 YR	10.0	13.98
MAX. ELEVATION OF LAND CAPABLE OF SUPPORTING TIDAL VEGETATION	CJL+1	6.4	10.38
CT COASTAL JURISDICTION LINE	CJL	5.4	9.38
HIGH TIDE LINE	HTL	5.2	9.18
MEAN HIGH WATER LINE	MHW	3.35	7.33
MEAN LOW WATER LINE	MLW	-3.72	0.26
MEAN LOWER LOW WATER LINE	MLLW	-3.98	0.00



SCALE:

SCALE 1" = 80'

0 40 80

DRAWN: H. UPSHAW

CHECKED: T. ADINOLFI

APPROVED: C. BROWN

SIGNATURE BLOCK:

STATE OF CONNECTICUT
DEPARTMENT OF TRANSPORTATION

PROJECT TITLE:

WALK BRIDGE REPLACEMENT OVER THE NORWALK RIVER BRIDGE NO. 04288R/MP 41.5

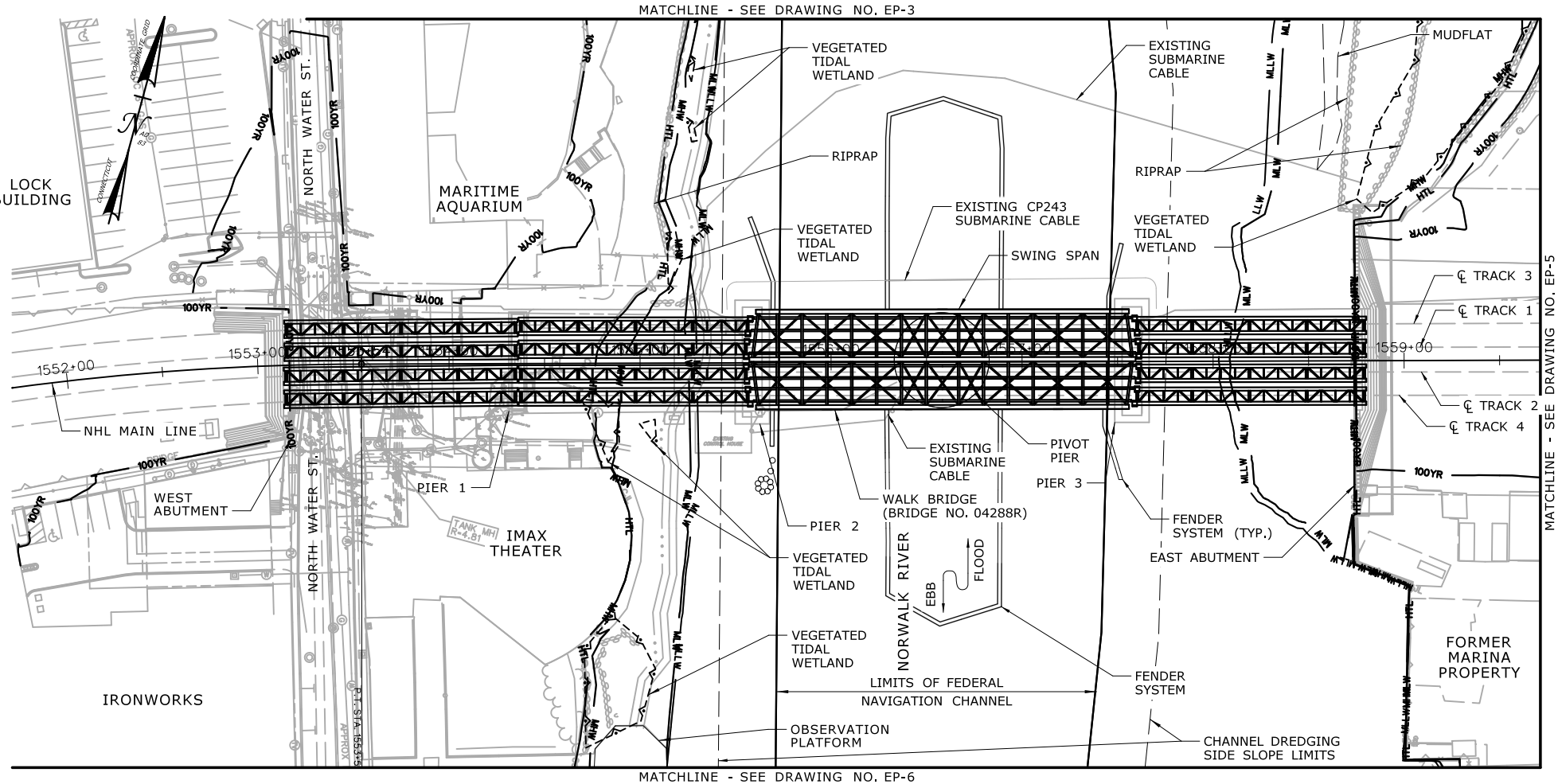
TOWN: **NORWALK**

PROJECT NO.: **0301-0176**

DRAWING TITLE: **PLAN EXISTING CONDITIONS (SHEET 3 OF 14)**

DATE: **REV 7-31-20**

DRAWING NO.: **EP-3**



ELEVATION TABLE			
DESCRIPTION	CONTOUR	ELEVATION (NAVD88)	ELEVATION (MLLW)
100-YEAR FLOODPLAIN	100 YR	10.0/12.0	13.98/15.98
MAX. ELEVATION OF LAND CAPABLE OF SUPPORTING TIDAL VEGETATION	CJL+1	6.4	10.38
CT COASTAL JURISDICTION LINE	CJL	5.4	9.38
HIGH TIDE LINE	HTL	5.2	9.18
MEAN HIGH WATER LINE	MHW	3.35	7.33
MEAN LOW WATER LINE	MLW	-3.72	0.26
MEAN LOWER LOW WATER LINE	MLLW	-3.98	0.00

NOTES:

1. THE 100-YEAR FLOOD ELEVATION VARIES THROUGHOUT THE SITE. WITHIN THE RIVER, IT IS DEFINED AS EL. 12 (15.98 MLLW) AND EL. 10 (13.98 MLLW) DOWNSTREAM AND UPSTREAM OF THE BRIDGE, RESPECTIVELY. SEE FLOOD ZONE MAP (DWG. NO. GEN-6) FOR ADDITIONAL INFORMATION.

SCALE: SCALE 1" = 80' (0 40 80)

DRAWN: H. UPSHAW
CHECKED: T. ADINOLFI
APPROVED: C. BROWN

SIGNATURE BLOCK:

STATE OF CONNECTICUT
DEPARTMENT OF TRANSPORTATION

PROJECT TITLE:
WALK BRIDGE REPLACEMENT OVER THE NORWALK RIVER BRIDGE NO. 04288R/MP 41.5

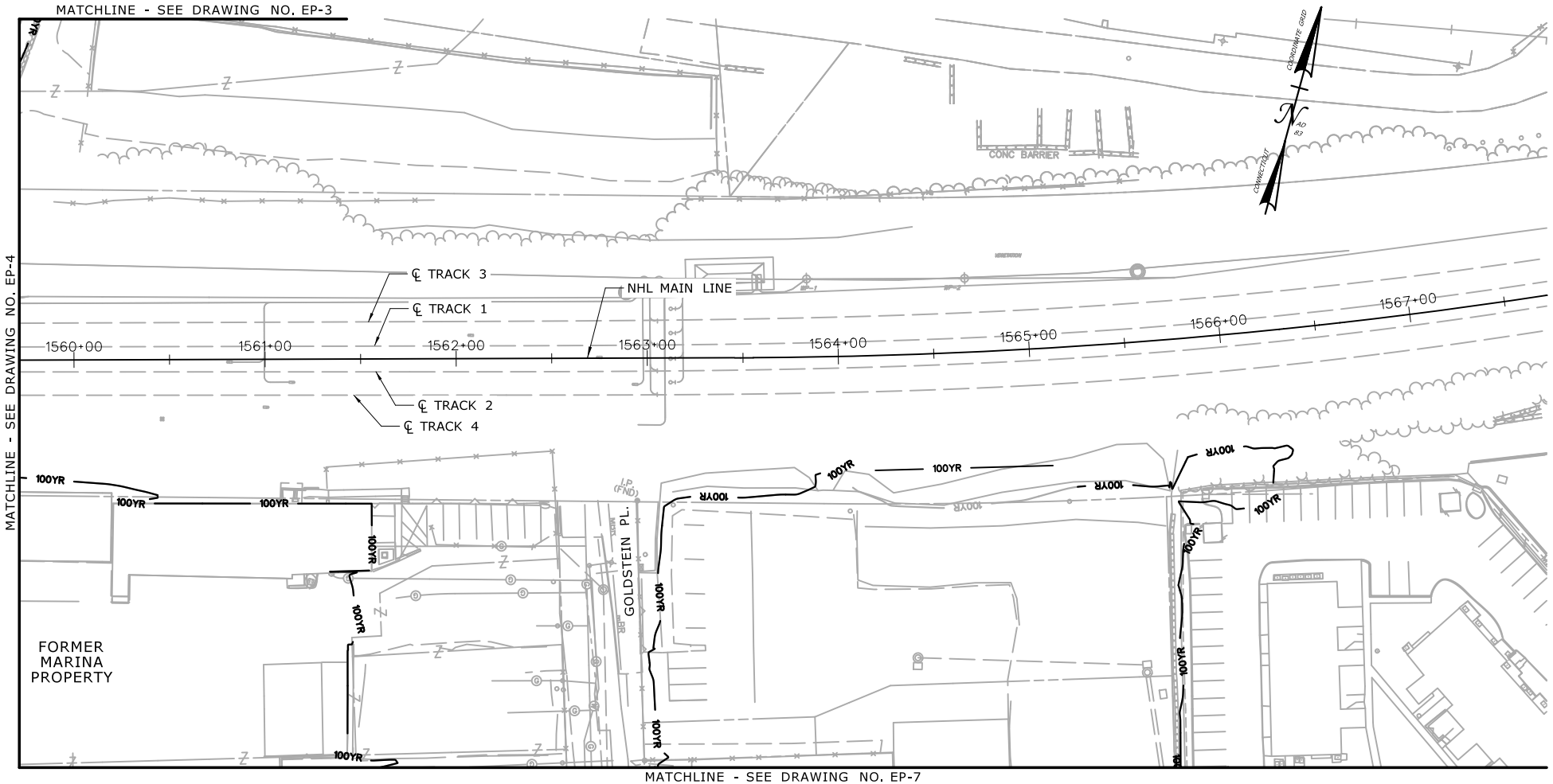
TOWN: **NORWALK**

DRAWING TITLE: **PLAN EXISTING CONDITIONS (SHEET 4 OF 14)**

PROJECT NO.: **0301-0176**

DATE: **REV 7-31-20**

DRAWING NO.: **EP-4**



ELEVATION TABLE			
DESCRIPTION	CONTOUR	ELEVATION (NAVD88)	ELEVATION (MLLW)
100-YEAR FLOODPLAIN	100 YR	13.0	16.98
MAX. ELEVATION OF LAND CAPABLE OF SUPPORTING TIDAL VEGETATION	CJL+1	6.4	10.38
CT COASTAL JURISDICTION LINE	CJL	5.4	9.38
HIGH TIDE LINE	HTL	5.2	9.18
MEAN HIGH WATER LINE	MHW	3.35	7.33
MEAN LOW WATER LINE	MLW	-3.72	0.26
MEAN LOWER LOW WATER LINE	MLLW	-3.98	0.00

SCALE:
SCALE 1" = 80'
0 40 80

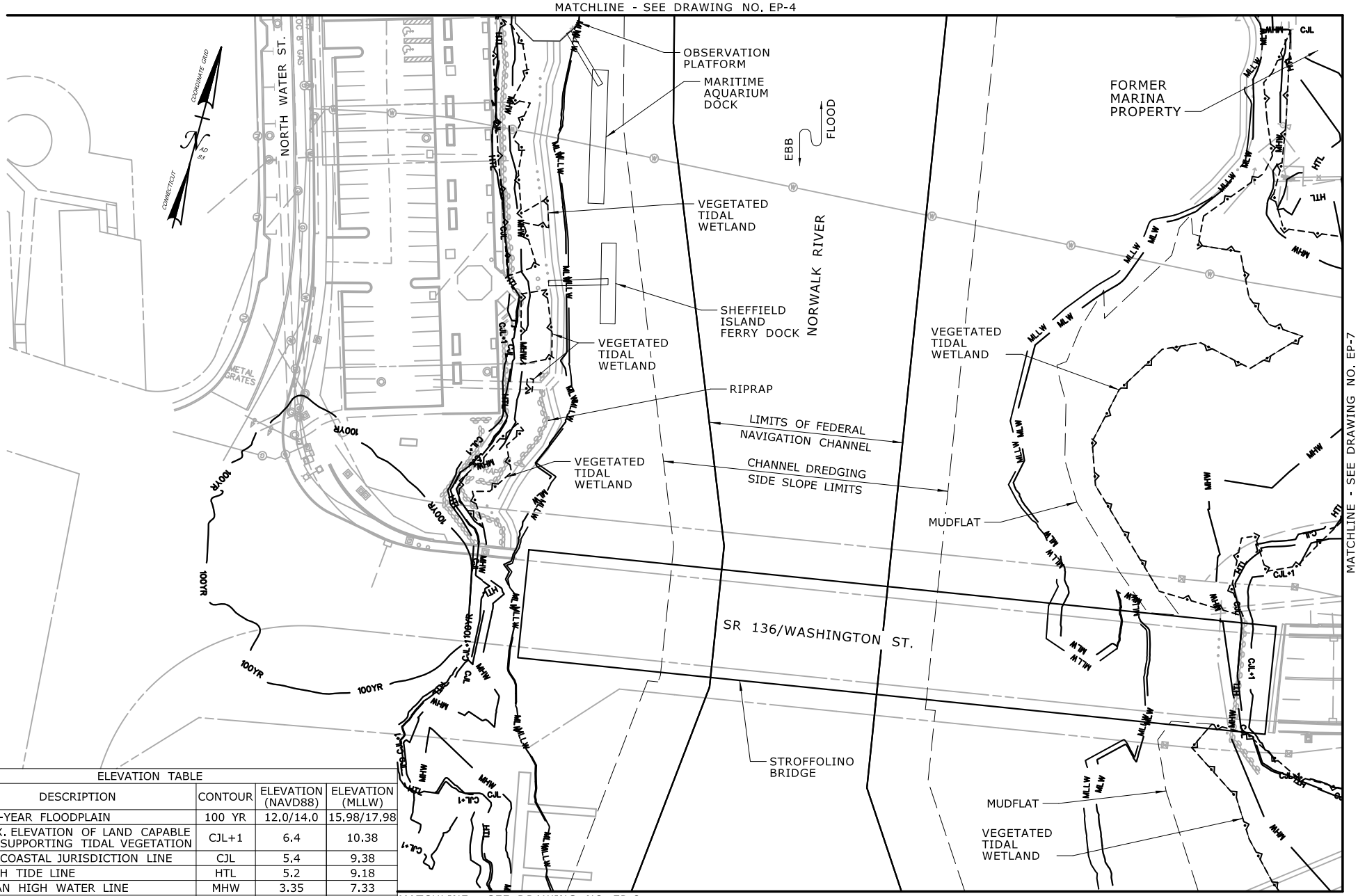
DRAWN: H. UPSHAW
CHECKED: T. ADINOLFI
APPROVED: C. BROWN

SIGNATURE BLOCK:

STATE OF CONNECTICUT
DEPARTMENT OF TRANSPORTATION

PROJECT TITLE:
WALK BRIDGE REPLACEMENT OVER THE NORWALK RIVER BRIDGE NO. 04288R/MP 41.5

TOWN: **NORWALK**
PROJECT NO.: **0301-0176**
DRAWING TITLE: **PLAN EXISTING CONDITIONS (SHEET 5 OF 14)**
DATE: **REV 7-31-20**
DRAWING NO.: **EP-5**



ELEVATION TABLE			
DESCRIPTION	CONTOUR	ELEVATION (NAVD88)	ELEVATION (MLLW)
100-YEAR FLOODPLAIN	100 YR	12.0/14.0	15.98/17.98
MAX. ELEVATION OF LAND CAPABLE OF SUPPORTING TIDAL VEGETATION	CJL+1	6.4	10.38
CT COASTAL JURISDICTION LINE	CJL	5.4	9.38
HIGH TIDE LINE	HTL	5.2	9.18
MEAN HIGH WATER LINE	MHW	3.35	7.33
MEAN LOW WATER LINE	MLW	-3.72	0.26
MEAN LOWER LOW WATER LINE	MLLW	-3.98	0.00

SCALE:
SCALE 1" = 80'
0 40 80

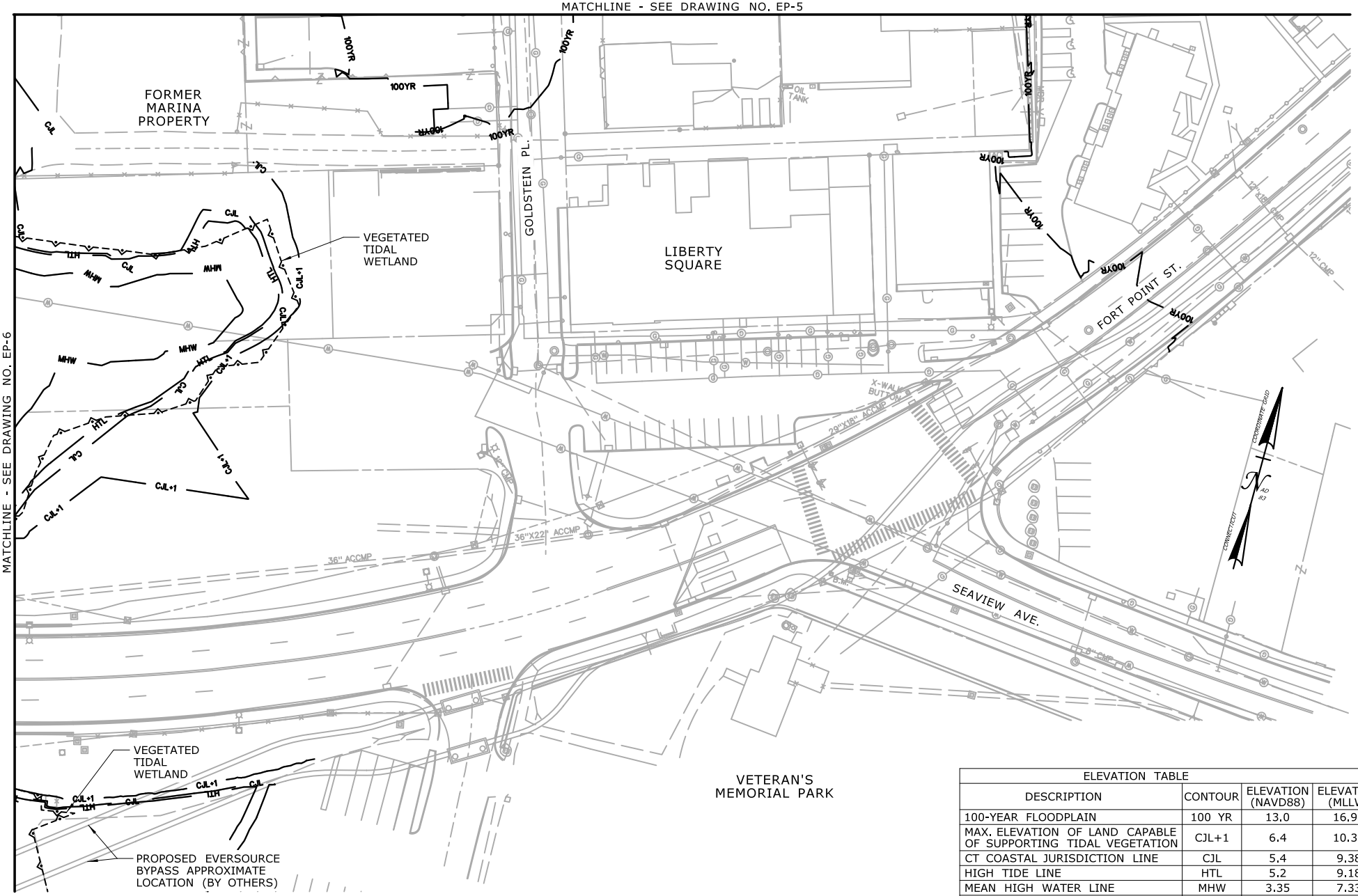
DRAWN: H. UPSHAW
CHECKED: T. ADINOLFI
APPROVED: C. BROWN

SIGNATURE BLOCK:

STATE OF CONNECTICUT
DEPARTMENT OF TRANSPORTATION

PROJECT TITLE:
WALK BRIDGE REPLACEMENT OVER THE NORWALK RIVER BRIDGE NO. 04288R/MP 41.5

TOWN: **NORWALK**
PROJECT NO.: **0301-0176**
DRAWING TITLE: **PLAN EXISTING CONDITIONS (SHEET 6 OF 14)**
DATE: **REV 7-31-20**
DRAWING NO.: **EP-6**



ELEVATION TABLE			
DESCRIPTION	CONTOUR	ELEVATION (NAVD88)	ELEVATION (MLLW)
100-YEAR FLOODPLAIN	100 YR	13.0	16.98
MAX. ELEVATION OF LAND CAPABLE OF SUPPORTING TIDAL VEGETATION	CJL+1	6.4	10.38
CT COASTAL JURISDICTION LINE	CJL	5.4	9.38
HIGH TIDE LINE	HTL	5.2	9.18
MEAN HIGH WATER LINE	MHW	3.35	7.33
MEAN LOW WATER LINE	MLW	-3.72	0.26
MEAN LOWER LOW WATER LINE	MLLW	-3.98	0.00

SCALE:
SCALE 1" = 80'
0 40 80

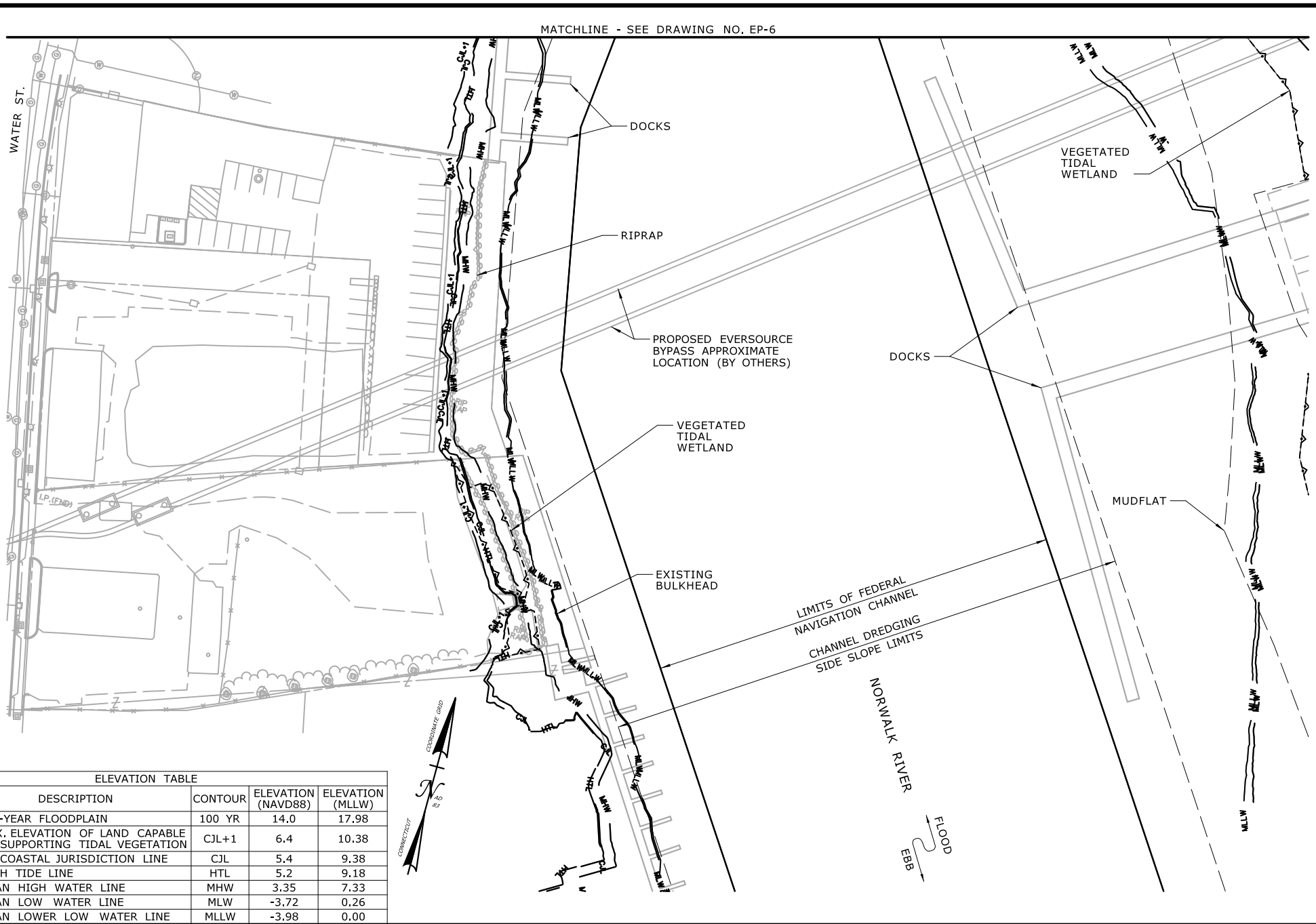
DRAWN: H. UPSHAW
CHECKED: T. ADINOLFI
APPROVED: C. BROWN

SIGNATURE BLOCK:

STATE OF CONNECTICUT
DEPARTMENT OF TRANSPORTATION

PROJECT TITLE:
WALK BRIDGE REPLACEMENT OVER THE NORWALK RIVER BRIDGE NO. 04288R/MP 41.5

TOWN: **NORWALK**
PROJECT NO.: **0301-0176**
DRAWING TITLE: **PLAN EXISTING CONDITIONS (SHEET 7 OF 14)**
DATE: **REV 05-19-21**
DRAWING NO.: **EP-7**



ELEVATION TABLE			
DESCRIPTION	CONTOUR	ELEVATION (NAVD88)	ELEVATION (MLLW)
100-YEAR FLOODPLAIN	100 YR	14.0	17.98
MAX. ELEVATION OF LAND CAPABLE OF SUPPORTING TIDAL VEGETATION	CJL+1	6.4	10.38
CT COASTAL JURISDICTION LINE	CJL	5.4	9.38
HIGH TIDE LINE	HTL	5.2	9.18
MEAN HIGH WATER LINE	MHW	3.35	7.33
MEAN LOW WATER LINE	MLW	-3.72	0.26
MEAN LOWER LOW WATER LINE	MLLW	-3.98	0.00

SCALE:
SCALE 1" = 80'
0 40 80

DRAWN: H. UPSHAW
CHECKED: T. ADINOLFI
APPROVED: C. BROWN

SIGNATURE BLOCK:

STATE OF CONNECTICUT
DEPARTMENT OF TRANSPORTATION

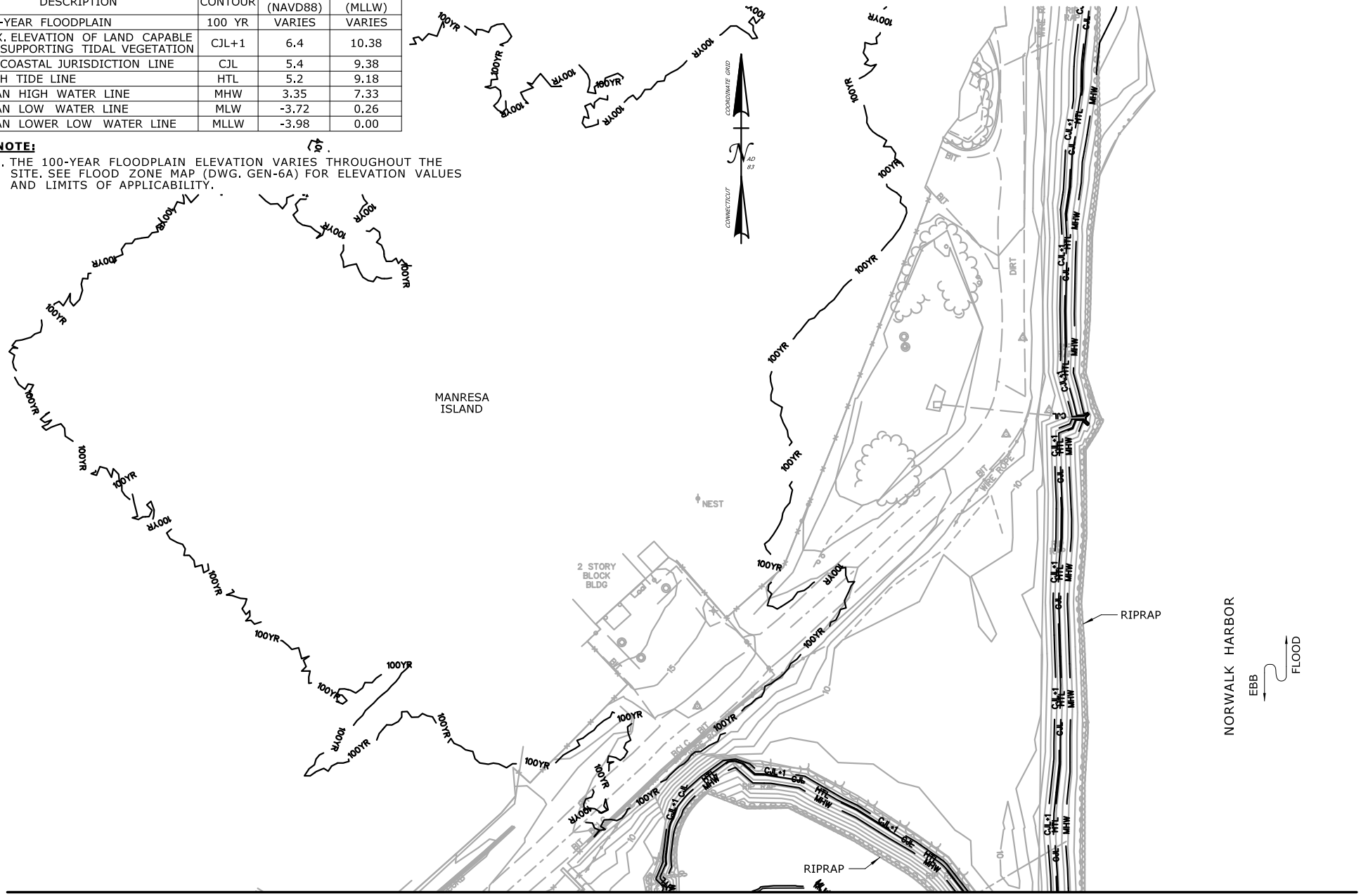
PROJECT TITLE:
WALK BRIDGE REPLACEMENT OVER THE NORWALK RIVER BRIDGE NO. 04288R/MP 41.5

TOWN: **NORWALK**
PROJECT NO.: **0301-0176**
DRAWING TITLE: **PLAN EXISTING CONDITIONS (SHEET 8 OF 14)**
DATE: **REV 05-19-21**
DRAWING NO.: **EP-8**

ELEVATION TABLE			
DESCRIPTION	CONTOUR	ELEVATION (NAVD88)	ELEVATION (MLLW)
100-YEAR FLOODPLAIN	100 YR	VARIES	VARIES
MAX. ELEVATION OF LAND CAPABLE OF SUPPORTING TIDAL VEGETATION	CJL+1	6.4	10.38
CT COASTAL JURISDICTION LINE	CJL	5.4	9.38
HIGH TIDE LINE	HTL	5.2	9.18
MEAN HIGH WATER LINE	MHW	3.35	7.33
MEAN LOW WATER LINE	MLW	-3.72	0.26
MEAN LOWER LOW WATER LINE	MLLW	-3.98	0.00

NOTE:

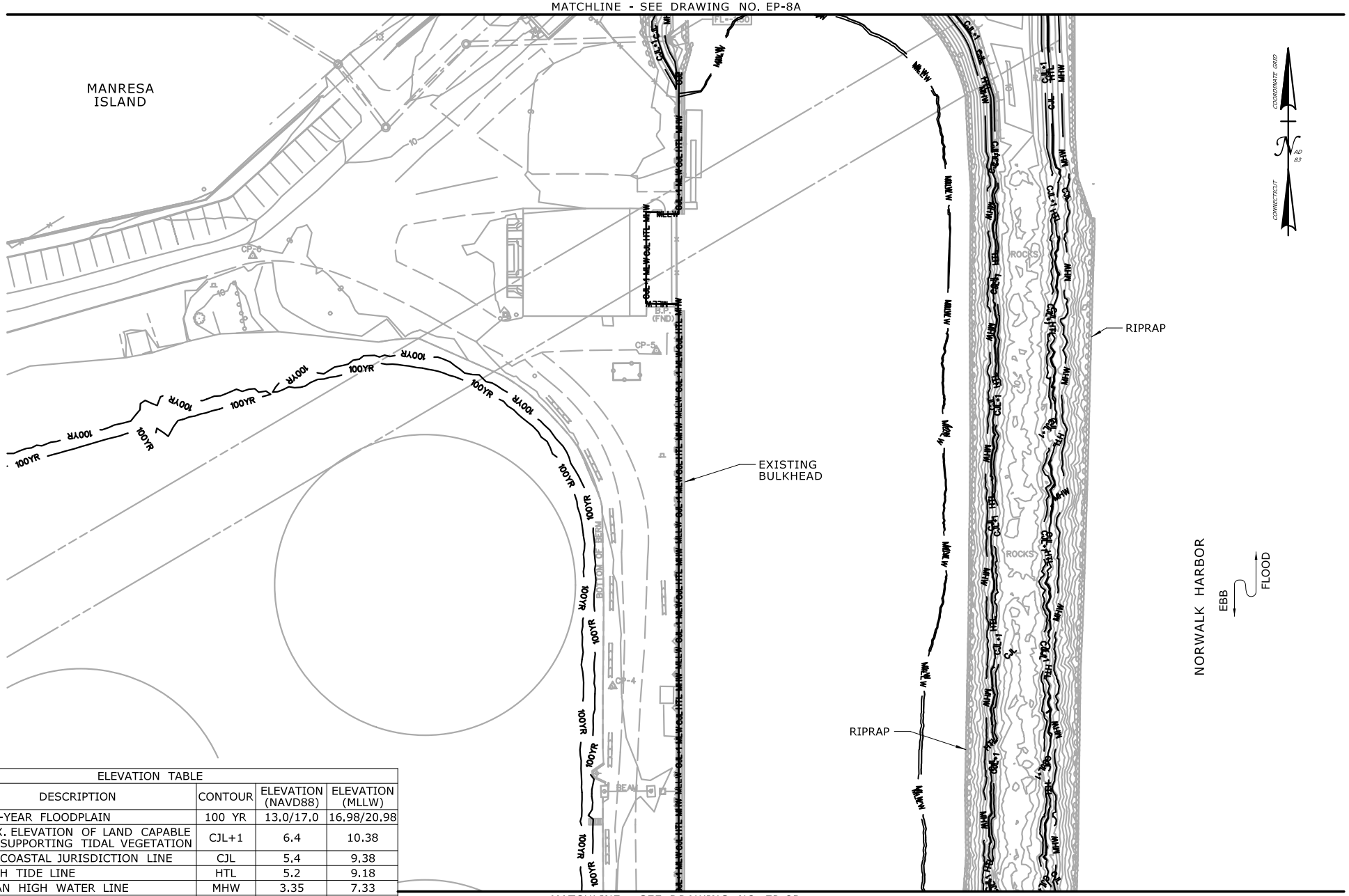
1. THE 100-YEAR FLOODPLAIN ELEVATION VARIES THROUGHOUT THE SITE. SEE FLOOD ZONE MAP (DWG. GEN-6A) FOR ELEVATION VALUES AND LIMITS OF APPLICABILITY.



MATCHLINE - SEE DRAWING NO. EP-8B

SCALE: SCALE 1" = 80' (0 40 80)	DRAWN: H. UPSHAW CHECKED: T. ADINOLFI APPROVED: C. BROWN	SIGNATURE BLOCK:	STATE OF CONNECTICUT DEPARTMENT OF TRANSPORTATION	PROJECT TITLE: WALK BRIDGE REPLACEMENT OVER THE NORWALK RIVER BRIDGE NO. 04288R/MP 41.5	TOWN: NORWALK DRAWING TITLE: PLAN EXISTING CONDITIONS (SHEET 9 OF 14)	PROJECT NO.: 0301-0176 DATE: REV 7-31-20 DRAWING NO.: EP-8A

MATCHLINE - SEE DRAWING NO. EP-8A



MATCHLINE - SEE DRAWING NO. EP-8D

ELEVATION TABLE			
DESCRIPTION	CONTOUR	ELEVATION (NAVD88)	ELEVATION (MLLW)
100-YEAR FLOODPLAIN	100 YR	13.0/17.0	16.98/20.98
MAX. ELEVATION OF LAND CAPABLE OF SUPPORTING TIDAL VEGETATION	CJL+1	6.4	10.38
CT COASTAL JURISDICTION LINE	CJL	5.4	9.38
HIGH TIDE LINE	HTL	5.2	9.18
MEAN HIGH WATER LINE	MHW	3.35	7.33
MEAN LOW WATER LINE	MLW	-3.72	0.26
MEAN LOWER LOW WATER LINE	MLLW	-3.98	0.00

SCALE:
SCALE 1" = 80'
0 40 80

DRAWN: H. UPSHAW
CHECKED: T. ADINOLFI
APPROVED: C. BROWN

SIGNATURE BLOCK:

STATE OF CONNECTICUT
DEPARTMENT OF TRANSPORTATION

PROJECT TITLE:
WALK BRIDGE REPLACEMENT OVER THE NORWALK RIVER BRIDGE NO. 04288R/MP 41.5

TOWN: **NORWALK**

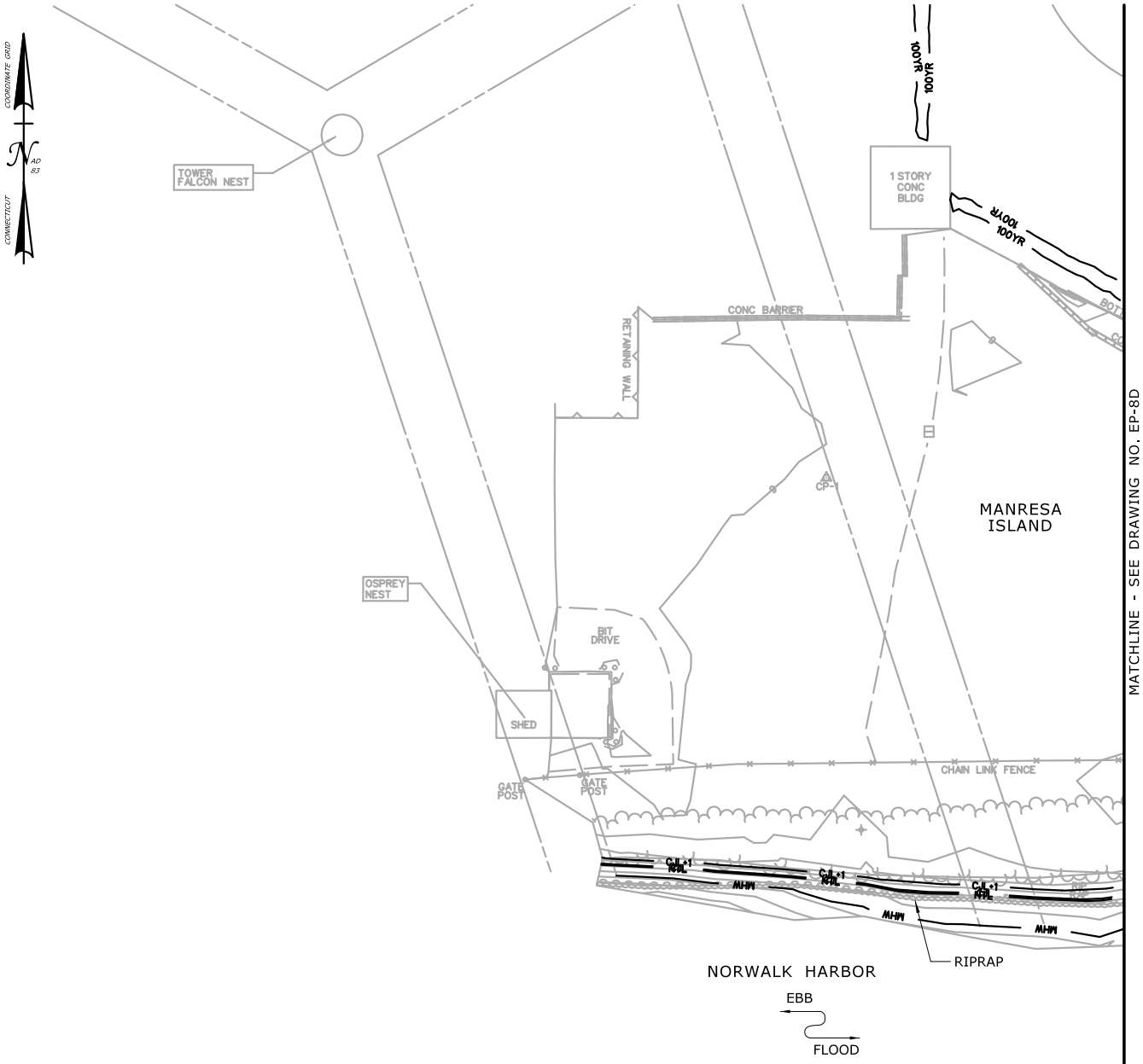
DRAWING TITLE:
PLAN EXISTING CONDITIONS (SHEET 10 OF 14)

PROJECT NO.: **0301-0176**

DATE: **REV 7-31-20**

DRAWING NO.: **EP-8B**

ELEVATION TABLE			
DESCRIPTION	CONTOUR	ELEVATION (NAVD88)	ELEVATION (MLLW)
100-YEAR FLOODPLAIN	100 YR	13.0/17.0	16.98/20.98
MAX. ELEVATION OF LAND CAPABLE OF SUPPORTING TIDAL VEGETATION	CJL+1	6.4	10.38
CT COASTAL JURISDICTION LINE	CJL	5.4	9.38
HIGH TIDE LINE	HTL	5.2	9.18
MEAN HIGH WATER LINE	MHW	3.35	7.33
MEAN LOW WATER LINE	MLW	-3.72	0.26
MEAN LOWER LOW WATER LINE	MLLW	-3.98	0.00



SCALE 1" = 80'
0 40 80

DRAWN: H. UPSHAW
CHECKED: T. ADINOLFI
APPROVED: C. BROWN

SIGNATURE BLOCK:

STATE OF CONNECTICUT
DEPARTMENT OF TRANSPORTATION

PROJECT TITLE:
WALK BRIDGE REPLACEMENT OVER THE NORWALK RIVER BRIDGE NO. 04288R/MP 41.5

TOWN: **NORWALK**

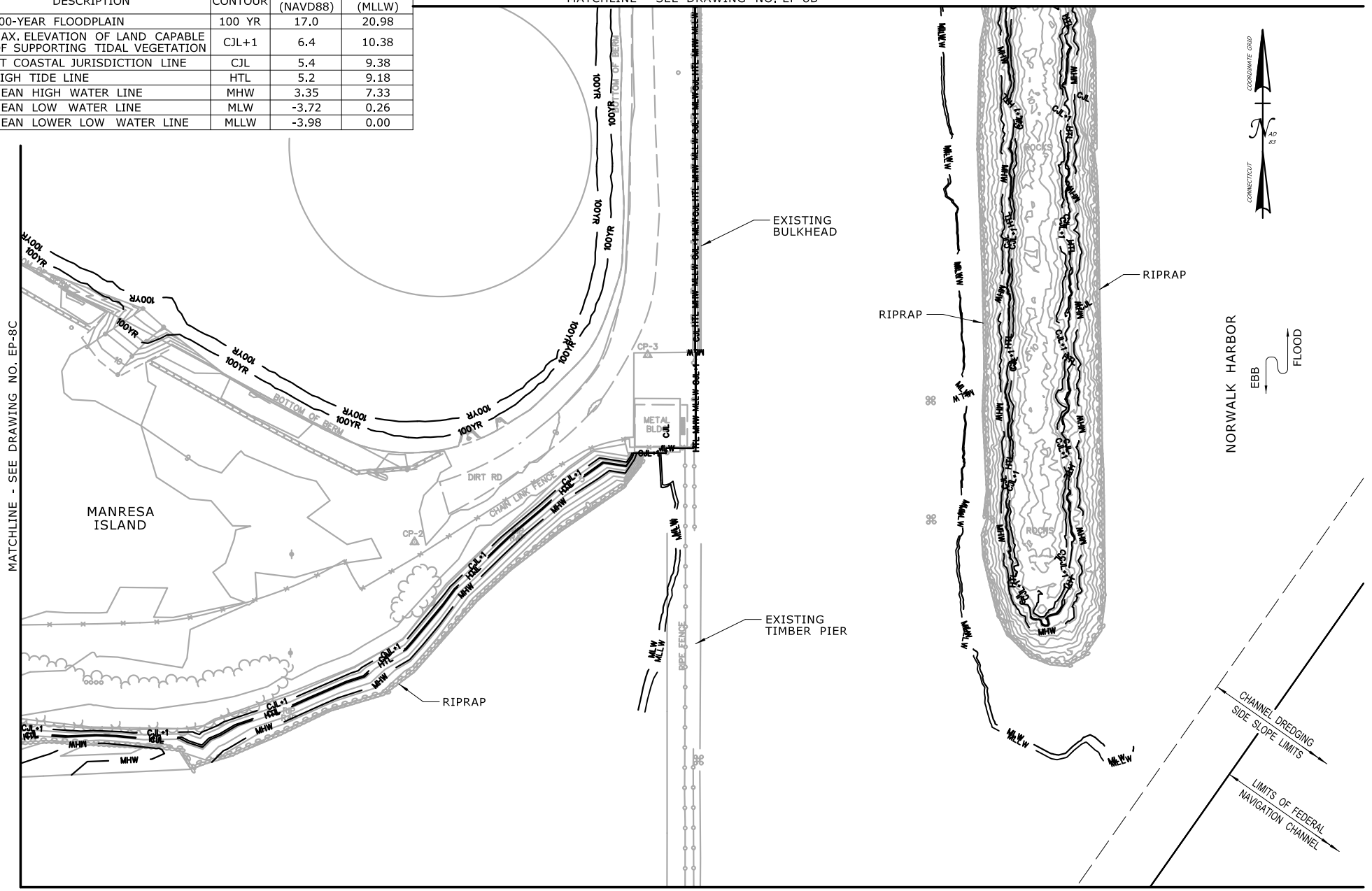
DRAWING TITLE:
PLAN EXISTING CONDITIONS (SHEET 11 OF 14)

PROJECT NO.: **0301-0176**

DATE: **REV 7-31-20**

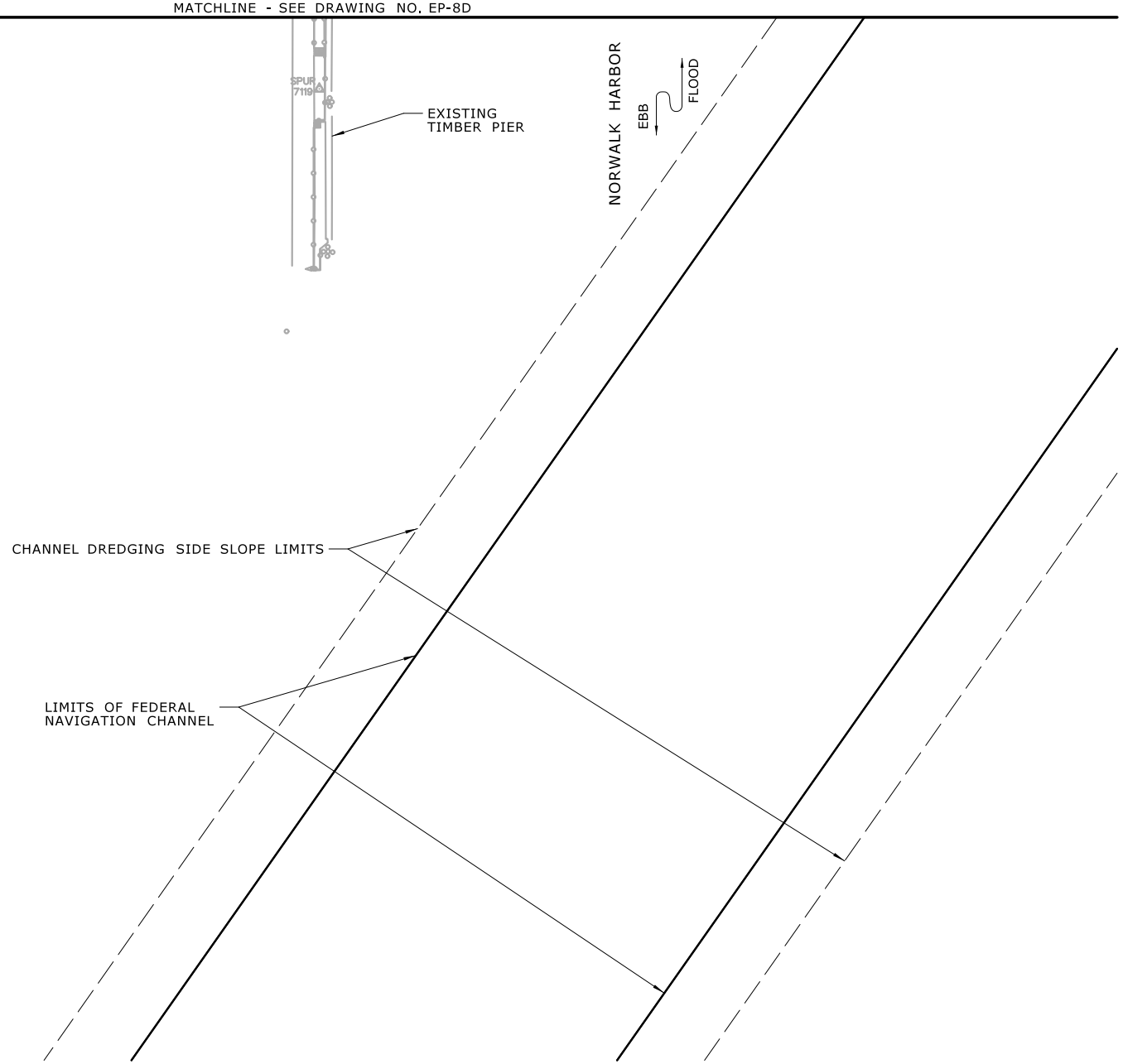
DRAWING NO.: **EP-8C**

ELEVATION TABLE			
DESCRIPTION	CONTOUR	ELEVATION (NAVD88)	ELEVATION (MLLW)
100-YEAR FLOODPLAIN	100 YR	17.0	20.98
MAX. ELEVATION OF LAND CAPABLE OF SUPPORTING TIDAL VEGETATION	CJL+1	6.4	10.38
CT COASTAL JURISDICTION LINE	CJL	5.4	9.38
HIGH TIDE LINE	HTL	5.2	9.18
MEAN HIGH WATER LINE	MHW	3.35	7.33
MEAN LOW WATER LINE	MLW	-3.72	0.26
MEAN LOWER LOW WATER LINE	MLLW	-3.98	0.00



SCALE:	DRAWN:	SIGNATURE BLOCK:		PROJECT TITLE:	TOWN:	PROJECT NO.:
SCALE 1" = 80' 0 40 80	H. UPSHAW		STATE OF CONNECTICUT DEPARTMENT OF TRANSPORTATION	WALK BRIDGE REPLACEMENT OVER THE NORWALK RIVER BRIDGE NO. 04288R/MP 41.5	NORWALK	0301-0176
	CHECKED: T. ADINOLFI				DRAWING TITLE: PLAN EXISTING CONDITIONS (SHEET 12 OF 14)	DATE: REV 7-31-20
	APPROVED: C. BROWN					DRAWING NO.: EP-8D

ELEVATION TABLE			
DESCRIPTION	CONTOUR	ELEVATION (NAVD88)	ELEVATION (MLLW)
100-YEAR FLOODPLAIN	100 YR	17.0	20.98
MAX. ELEVATION OF LAND CAPABLE OF SUPPORTING TIDAL VEGETATION	CJL+1	6.4	10.38
CT COASTAL JURISDICTION LINE	CJL	5.4	9.38
HIGH TIDE LINE	HTL	5.2	9.18
MEAN HIGH WATER LINE	MHW	3.35	7.33
MEAN LOW WATER LINE	MLW	-3.72	0.26
MEAN LOWER LOW WATER LINE	MLLW	-3.98	0.00



SCALE:
SCALE 1" = 80'
0 40 80

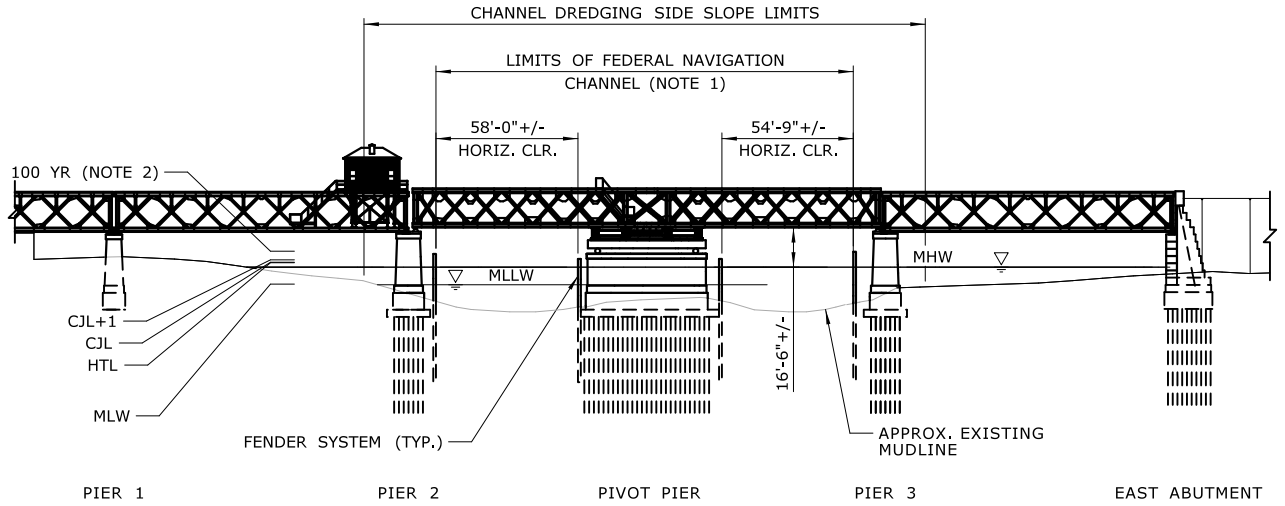
DRAWN: H. UPSHAW
CHECKED: T. ADINOLFI
APPROVED: C. BROWN

SIGNATURE BLOCK:

STATE OF CONNECTICUT
DEPARTMENT OF TRANSPORTATION

PROJECT TITLE:
WALK BRIDGE REPLACEMENT OVER THE NORWALK RIVER BRIDGE NO. 04288R/MP 41.5

TOWN: **NORWALK**
PROJECT NO.: **0301-0176**
DRAWING TITLE: **PLAN EXISTING CONDITIONS (SHEET 13 OF 14)**
DATE: **REV 7-31-20**
DRAWING NO.: **EP-8E**



ELEVATION

(VIEW LOOKING NORTH)

ELEVATION TABLE			
DESCRIPTION	CONTOUR	ELEVATION (NAVD88)	ELEVATION (MLLW)
100-YEAR FLOODPLAIN	100 YR	10.0/12.0	13.98/15.98
MAX. ELEVATION OF LAND CAPABLE OF SUPPORTING TIDAL VEGETATION	CJL+1	6.4	10.38
CT COASTAL JURISDICTION LINE	CJL	5.4	9.38
HIGH TIDE LINE	HTL	5.2	9.18
MEAN HIGH WATER LINE	MHW	3.35	7.33
MEAN LOW WATER LINE	MLW	-3.72	0.26
MEAN LOWER LOW WATER LINE	MLLW	-3.98	0.00

NOTES:

1. LIMITS OF FEDERAL NAVIGATION CHANNEL PROVIDED BY THE U.S. ARMY CORPS OF ENGINEERS FEDERAL NAVIGATION PROJECT FOR NORWALK HARBOR, U.S. ARMY CORPS OF ENGINEERS, AFTER DREDGE SURVEY, SUPPLEMENTAL PROJECT DRAWING 4/11/2014.
2. THE 100-YEAR FLOOD ELEVATION VARIES THROUGHOUT THE SITE. WITHIN THE RIVER, IT IS DEFINED AS EL. 12 (15.98 MLLW) AND EL. 10 (13.98 MLLW) DOWNSTREAM AND UPSTREAM OF THE BRIDGE, RESPECTIVELY. SEE FLOOD ZONE MAP (DWG. NO. GEN-6) FOR ADDITIONAL INFORMATION.

SCALE:
SCALE 1" = 80'
0 40 80

DRAWN: H. UPSHAW
CHECKED: T. ADINOLFI
APPROVED: C. BROWN

SIGNATURE BLOCK:

STATE OF CONNECTICUT
DEPARTMENT OF TRANSPORTATION

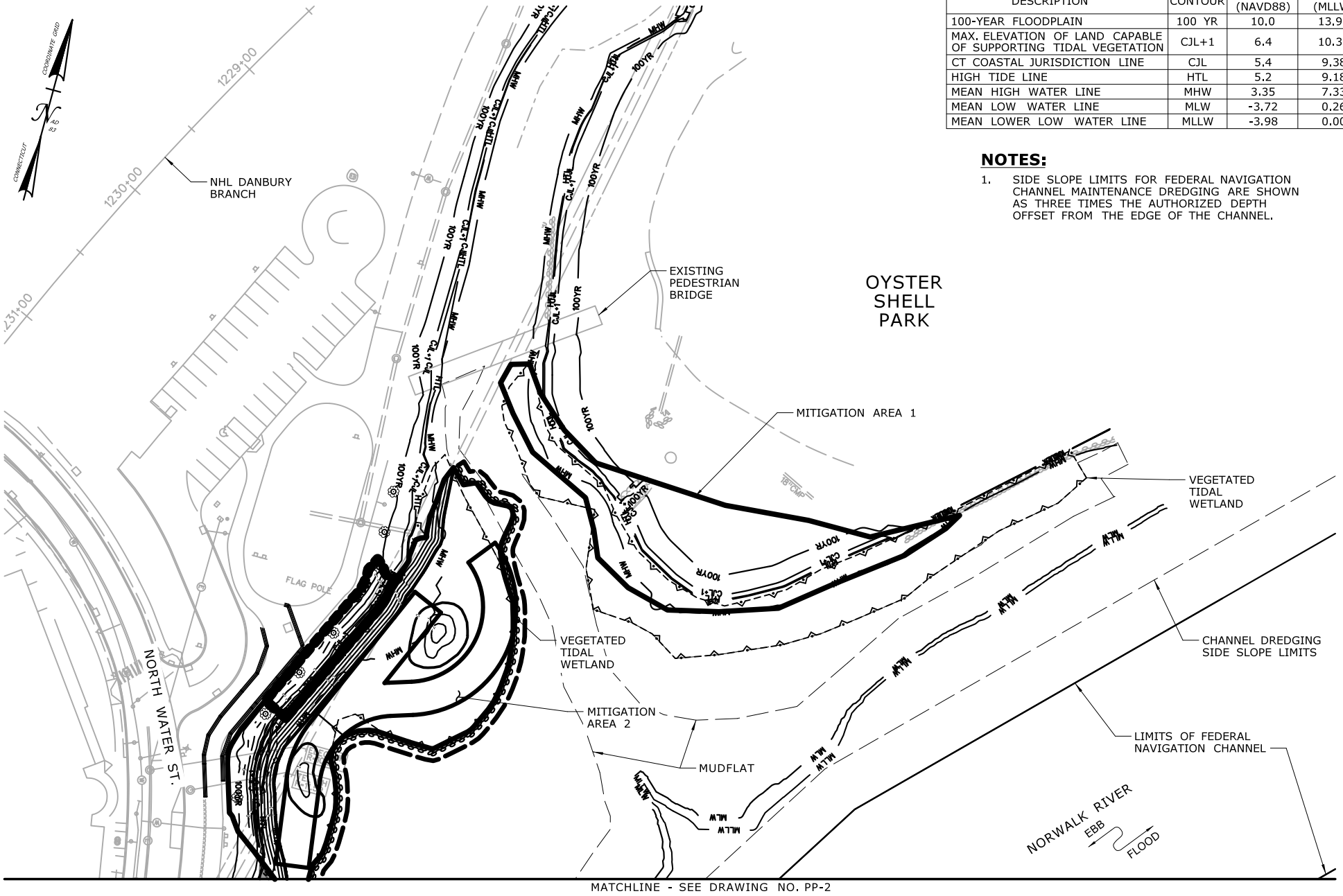
PROJECT TITLE:
WALK BRIDGE REPLACEMENT OVER THE NORWALK RIVER BRIDGE NO. 04288R/MP 41.5

TOWN: **NORWALK**
PROJECT NO.: **0301-0176**
DRAWING TITLE: **BRIDGE ELEVATION EXISTING CONDITIONS (SHEET 14 OF 14)**
DATE: **REV 7-31-20**
DRAWING NO.: **EP-9**

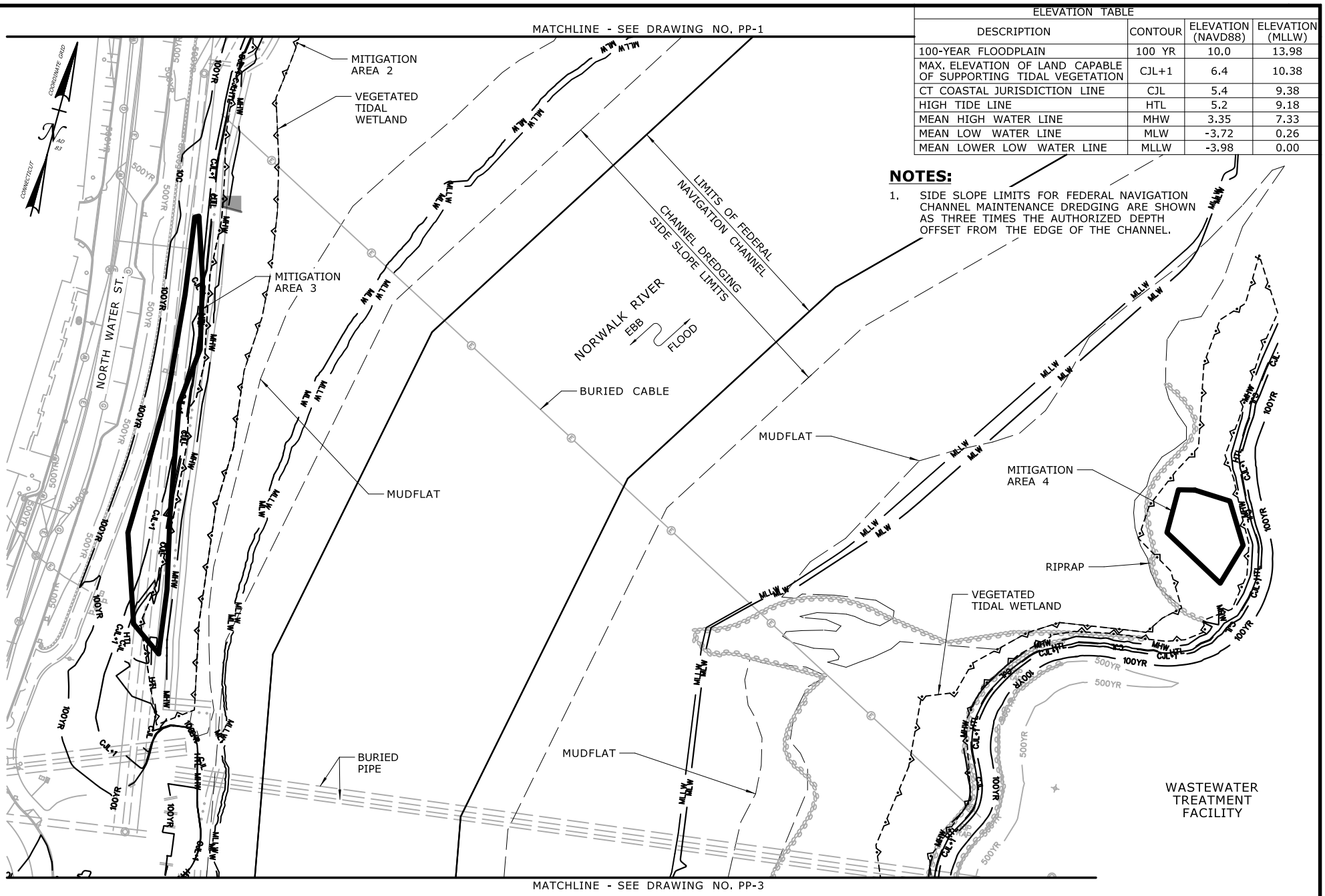
ELEVATION TABLE			
DESCRIPTION	CONTOUR	ELEVATION (NAVD88)	ELEVATION (MLLW)
100-YEAR FLOODPLAIN	100 YR	10.0	13.98
MAX. ELEVATION OF LAND CAPABLE OF SUPPORTING TIDAL VEGETATION	CJL+1	6.4	10.38
CT COASTAL JURISDICTION LINE	CJL	5.4	9.38
HIGH TIDE LINE	HTL	5.2	9.18
MEAN HIGH WATER LINE	MHW	3.35	7.33
MEAN LOW WATER LINE	MLW	-3.72	0.26
MEAN LOWER LOW WATER LINE	MLLW	-3.98	0.00

NOTES:

1. SIDE SLOPE LIMITS FOR FEDERAL NAVIGATION CHANNEL MAINTENANCE DREDGING ARE SHOWN AS THREE TIMES THE AUTHORIZED DEPTH OFFSET FROM THE EDGE OF THE CHANNEL.



SCALE: SCALE 1" = 80' (0 40 80)	DRAWN: H. UPSHAW CHECKED: T. ADINOLFI APPROVED: C. BROWN	SIGNATURE BLOCK:	STATE OF CONNECTICUT DEPARTMENT OF TRANSPORTATION	PROJECT TITLE: WALK BRIDGE REPLACEMENT OVER THE NORWALK RIVER BRIDGE NO. 04288R/MP 41.5	TOWN: NORWALK DRAWING TITLE: PLAN PROPOSED CONDITIONS (SHEET 1 OF 14)	PROJECT NO.: 0301-0176 DATE: REV 7-31-20 DRAWING NO.: PP-1



ELEVATION TABLE			
DESCRIPTION	CONTOUR	ELEVATION (NAVD88)	ELEVATION (MLLW)
100-YEAR FLOODPLAIN	100 YR	10.0	13.98
MAX. ELEVATION OF LAND CAPABLE OF SUPPORTING TIDAL VEGETATION	CJL+1	6.4	10.38
CT COASTAL JURISDICTION LINE	CJL	5.4	9.38
HIGH TIDE LINE	HTL	5.2	9.18
MEAN HIGH WATER LINE	MHW	3.35	7.33
MEAN LOW WATER LINE	MLW	-3.72	0.26
MEAN LOWER LOW WATER LINE	MLLW	-3.98	0.00

NOTES:

1. SIDE SLOPE LIMITS FOR FEDERAL NAVIGATION CHANNEL MAINTENANCE DREDGING ARE SHOWN AS THREE TIMES THE AUTHORIZED DEPTH OFFSET FROM THE EDGE OF THE CHANNEL.

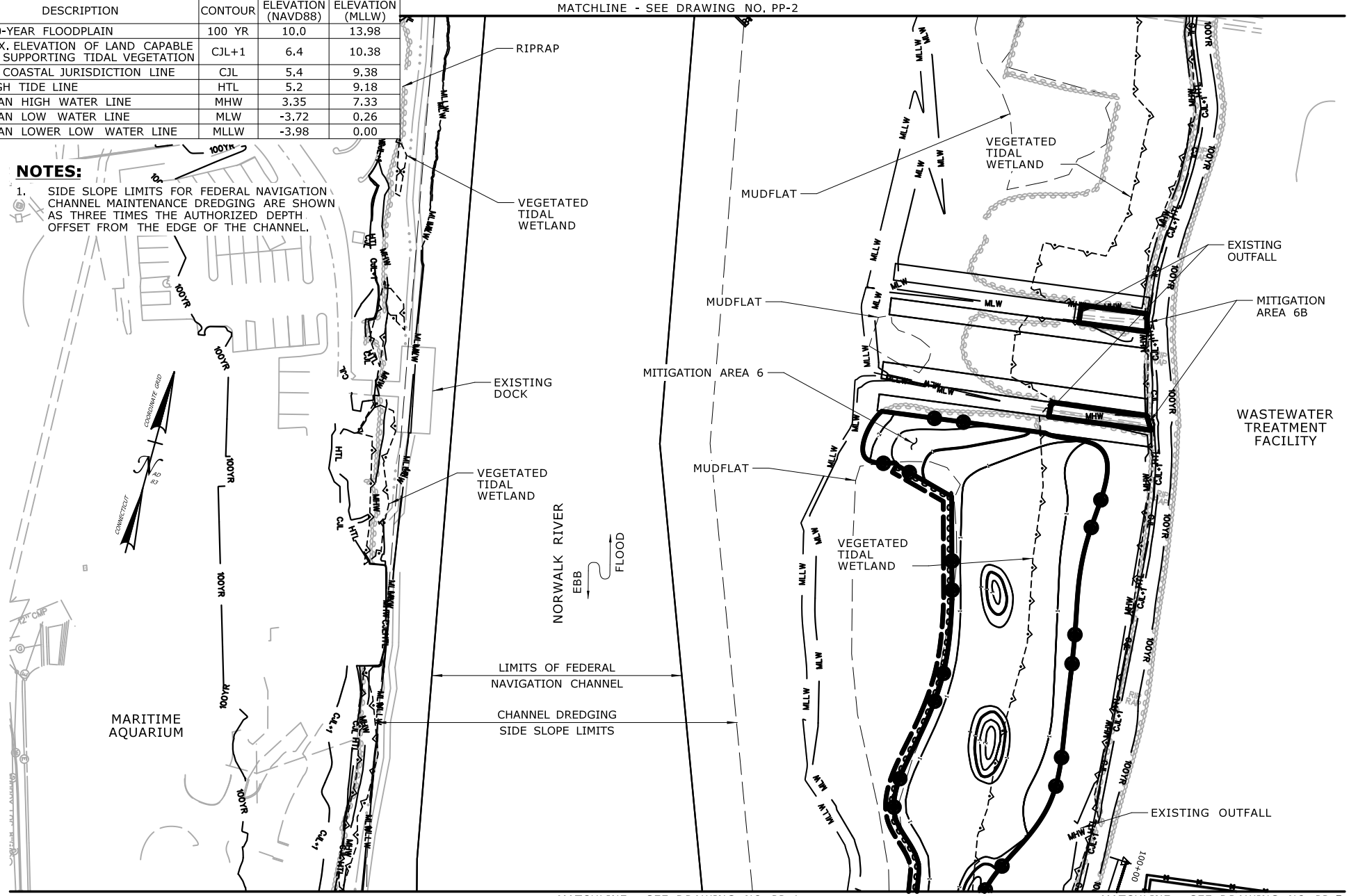
SCALE: SCALE 1" = 80' (0 40 80)	DRAWN: H. UPSHAW CHECKED: T. ADINOLFI APPROVED: C. BROWN	SIGNATURE BLOCK:	STATE OF CONNECTICUT DEPARTMENT OF TRANSPORTATION	PROJECT TITLE: WALK BRIDGE REPLACEMENT OVER THE NORWALK RIVER BRIDGE NO. 04288R/MP 41.5	TOWN: NORWALK DRAWING TITLE: PLAN PROPOSED CONDITIONS (SHEET 2 OF 14)	PROJECT NO.: 0301-0176 DATE: REV 7-31-20 DRAWING NO.: PP-2

ELEVATION TABLE

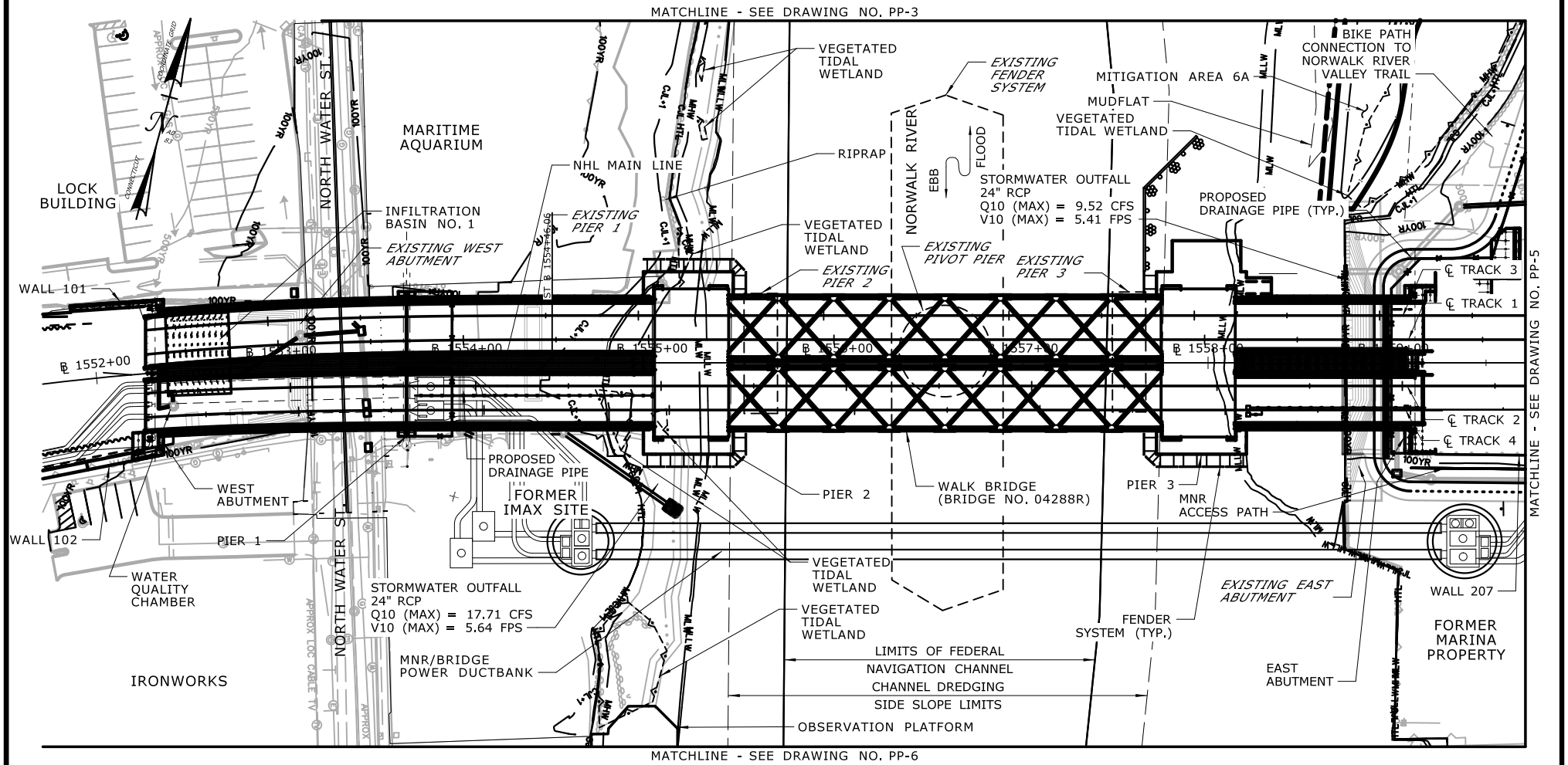
DESCRIPTION	CONTOUR	ELEVATION (NAVD88)	ELEVATION (MLLW)
100-YEAR FLOODPLAIN	100 YR	10.0	13.98
MAX. ELEVATION OF LAND CAPABLE OF SUPPORTING TIDAL VEGETATION	CJL+1	6.4	10.38
CT COASTAL JURISDICTION LINE	CJL	5.4	9.38
HIGH TIDE LINE	HTL	5.2	9.18
MEAN HIGH WATER LINE	MHW	3.35	7.33
MEAN LOW WATER LINE	MLW	-3.72	0.26
MEAN LOWER LOW WATER LINE	MLLW	-3.98	0.00

NOTES:

1. SIDE SLOPE LIMITS FOR FEDERAL NAVIGATION CHANNEL MAINTENANCE DREDGING ARE SHOWN AS THREE TIMES THE AUTHORIZED DEPTH OFFSET FROM THE EDGE OF THE CHANNEL.



SCALE: SCALE 1" = 80' (0 40 80)	DRAWN: H. UPSHAW CHECKED: T. ADINOLFI APPROVED: C. BROWN	SIGNATURE BLOCK:	STATE OF CONNECTICUT DEPARTMENT OF TRANSPORTATION	PROJECT TITLE: WALK BRIDGE REPLACEMENT OVER THE NORWALK RIVER BRIDGE NO. 04288R/MP 41.5	TOWN: NORWALK DRAWING TITLE: PLAN PROPOSED CONDITIONS (SHEET 3 OF 14)	PROJECT NO.: 0301-0176 DATE: REV 7-31-20 DRAWING NO.: PP-3



ELEVATION TABLE			
DESCRIPTION	CONTOUR	ELEVATION (NAVD88)	ELEVATION (MLLW)
100-YEAR FLOODPLAIN	100 YR	10.0/12.0	13.98/15.98
MAX. ELEVATION OF LAND CAPABLE OF SUPPORTING TIDAL VEGETATION	CJL+1	6.4	10.38
CT COASTAL JURISDICTION LINE	CJL	5.4	9.38
HIGH TIDE LINE	HTL	5.2	9.18
MEAN HIGH WATER LINE	MHW	3.35	7.33
MEAN LOW WATER LINE	MLW	-3.72	0.26
MEAN LOWER LOW WATER LINE	MLLW	-3.98	0.00

NOTES:

1. SIDE SLOPE LIMITS FOR FEDERAL NAVIGATION CHANNEL MAINTENANCE DREDGING ARE SHOWN AS THREE TIMES THE AUTHORIZED DEPTH OFFSET FROM THE EDGE OF THE CHANNEL.
2. THE 100-YEAR FLOOD ELEVATION VARIES THROUGHOUT THE SITE. WITHIN THE RIVER, IT IS DEFINED AS EL. 12 (15.98 MLLW) AND EL. 10 (13.98 MLLW) DOWNSTREAM AND UPSTREAM OF THE BRIDGE, RESPECTIVELY. SEE FLOOD ZONE MAP (DWG. NO. GEN-6) FOR ADDITIONAL INFORMATION.

SCALE: SCALE 1" = 80' (0 40 80)

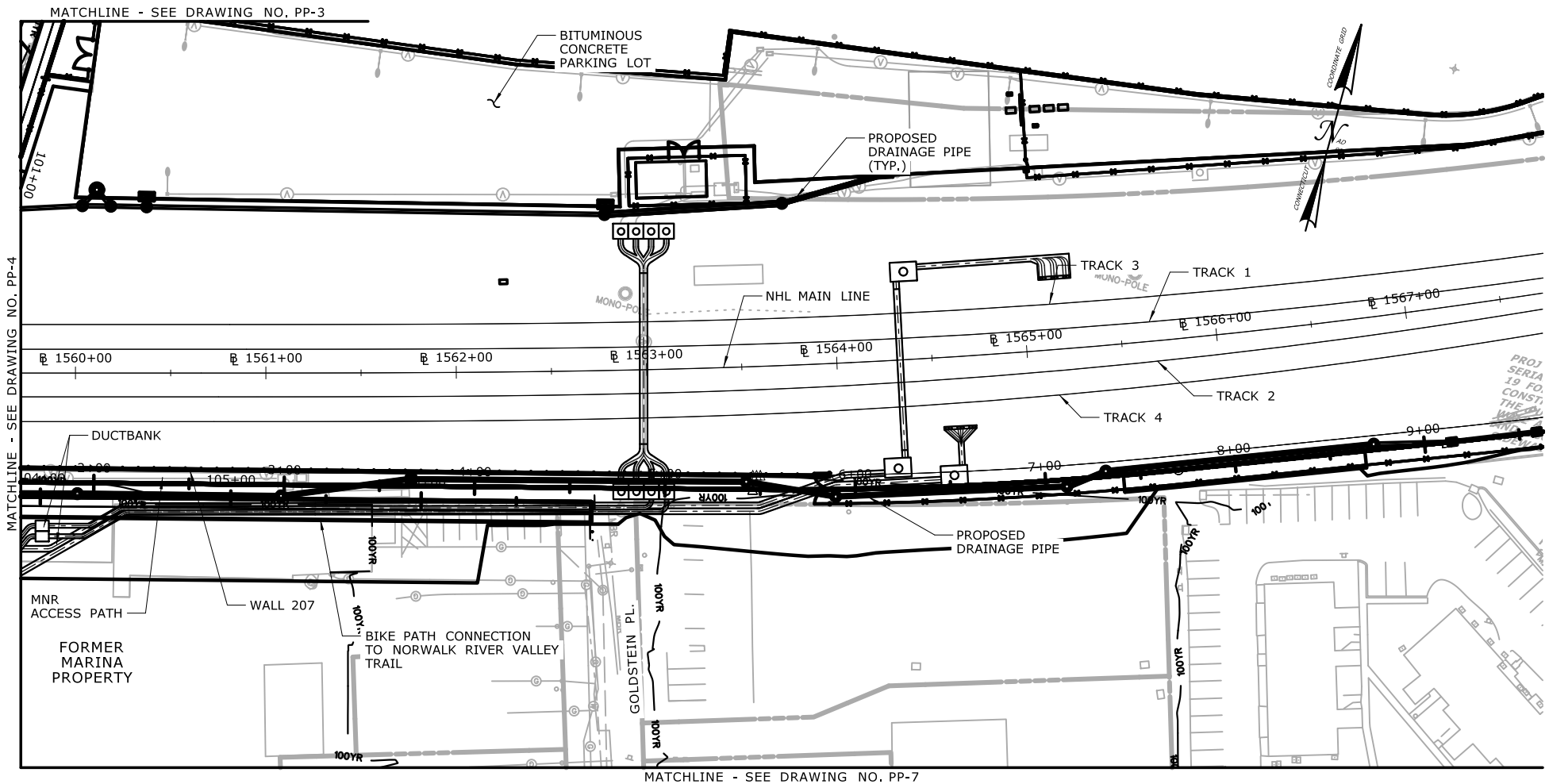
DRAWN: H. UPSHAW
CHECKED: T. ADINOLFI
APPROVED: C. BROWN

SIGNATURE BLOCK:

STATE OF CONNECTICUT
DEPARTMENT OF TRANSPORTATION

PROJECT TITLE:
WALK BRIDGE REPLACEMENT OVER THE NORWALK RIVER BRIDGE NO. 04288R/MP 41.5

TOWN: **NORWALK**
PROJECT NO.: **0301-0176**
DRAWING TITLE: **PLAN PROPOSED CONDITIONS (SHEET 4 OF 14)**
DATE: **REV 05-19-21**
DRAWING NO.: **PP-4**



ELEVATION TABLE			
DESCRIPTION	CONTOUR	ELEVATION (NAVD88)	ELEVATION (MLLW)
100-YEAR FLOODPLAIN	100 YR	13.0	16.98
MAX. ELEVATION OF LAND CAPABLE OF SUPPORTING TIDAL VEGETATION	CJL+1	6.4	10.38
CT COASTAL JURISDICTION LINE	CJL	5.4	9.38
HIGH TIDE LINE	HTL	5.2	9.18
MEAN HIGH WATER LINE	MHW	3.35	7.33
MEAN LOW WATER LINE	MLW	-3.72	0.26
MEAN LOWER LOW WATER LINE	MLLW	-3.98	0.00

SCALE:
SCALE 1" = 80'
0 40 80

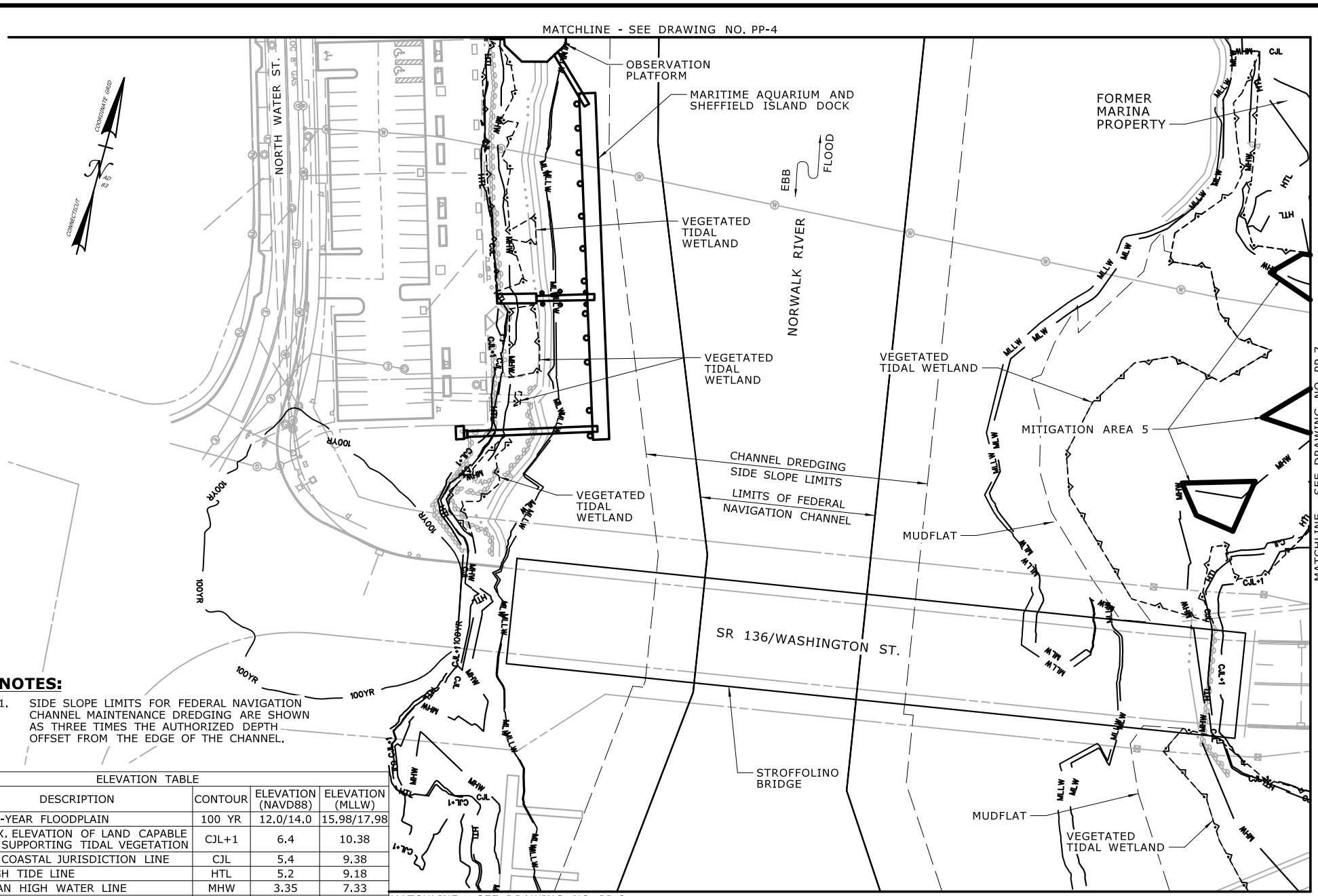
DRAWN: H. UPSHAW
CHECKED: T. ADINOLFI
APPROVED: C. BROWN

SIGNATURE BLOCK:

STATE OF CONNECTICUT
DEPARTMENT OF TRANSPORTATION

PROJECT TITLE:
WALK BRIDGE REPLACEMENT OVER THE NORWALK RIVER BRIDGE NO. 04288R/MP 41.5

TOWN: **NORWALK**
PROJECT NO.: **0301-0176**
DRAWING TITLE: **PLAN PROPOSED CONDITIONS (SHEET 5 OF 14)**
DATE: **REV 05-19-21**
DRAWING NO.: **PP-5**



NOTES:

1. SIDE SLOPE LIMITS FOR FEDERAL NAVIGATION CHANNEL MAINTENANCE DREDGING ARE SHOWN AS THREE TIMES THE AUTHORIZED DEPTH OFFSET FROM THE EDGE OF THE CHANNEL.

ELEVATION TABLE

DESCRIPTION	CONTOUR	ELEVATION (NAVD88)	ELEVATION (MLLW)
100-YEAR FLOODPLAIN	100 YR	12.0/14.0	15.98/17.98
MAX. ELEVATION OF LAND CAPABLE OF SUPPORTING TIDAL VEGETATION	CJL+1	6.4	10.38
CT COASTAL JURISDICTION LINE	CJL	5.4	9.38
HIGH TIDE LINE	HTL	5.2	9.18
MEAN HIGH WATER LINE	MHW	3.35	7.33
MEAN LOW WATER LINE	MLW	-3.72	0.26
MEAN LOWER LOW WATER LINE	MLLW	-3.98	0.00

SCALE: SCALE 1" = 80' (0 40 80)

DRAWN: H. UPSHAW
CHECKED: T. ADINOLFI
APPROVED: C. BROWN

SIGNATURE BLOCK:

STATE OF CONNECTICUT
DEPARTMENT OF TRANSPORTATION

PROJECT TITLE:
WALK BRIDGE REPLACEMENT OVER THE NORWALK RIVER BRIDGE NO. 04288R/MP 41.5

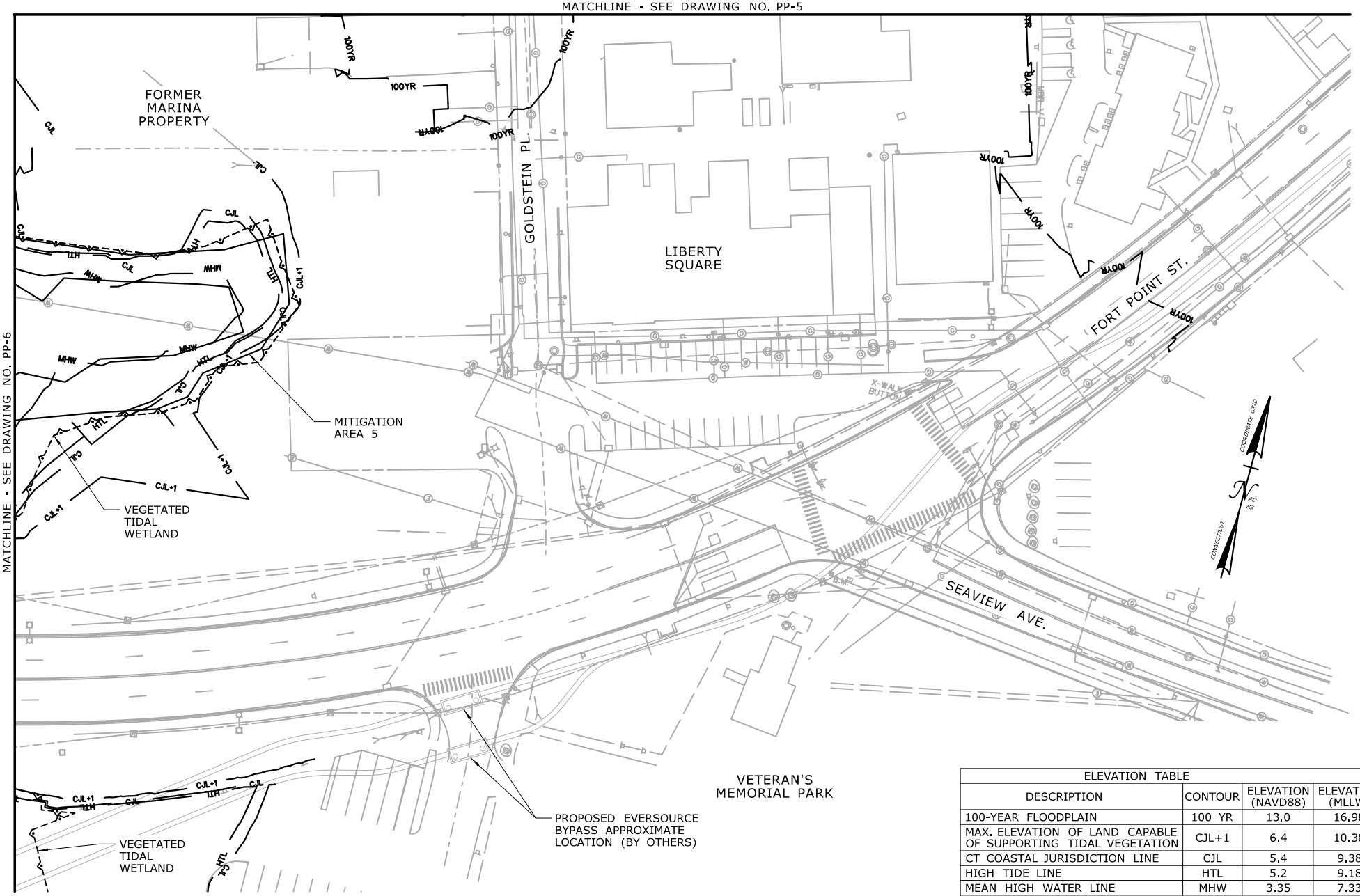
TOWN: **NORWALK**

PROJECT NO.: **0301-0176**

DRAWING TITLE: **PLAN PROPOSED CONDITIONS (SHEET 6 OF 14)**

DATE: **REV 02-23-21**

DRAWING NO.: **PP-6**



ELEVATION TABLE			
DESCRIPTION	CONTOUR	ELEVATION (NAVD88)	ELEVATION (MLLW)
100-YEAR FLOODPLAIN	100 YR	13.0	16.98
MAX. ELEVATION OF LAND CAPABLE OF SUPPORTING TIDAL VEGETATION	CJL+1	6.4	10.38
CT COASTAL JURISDICTION LINE	CJL	5.4	9.38
HIGH TIDE LINE	HTL	5.2	9.18
MEAN HIGH WATER LINE	MHW	3.35	7.33
MEAN LOW WATER LINE	MLW	-3.72	0.26
MEAN LOWER LOW WATER LINE	MLLW	-3.98	0.00

SCALE:
SCALE 1" = 80'
0 40 80

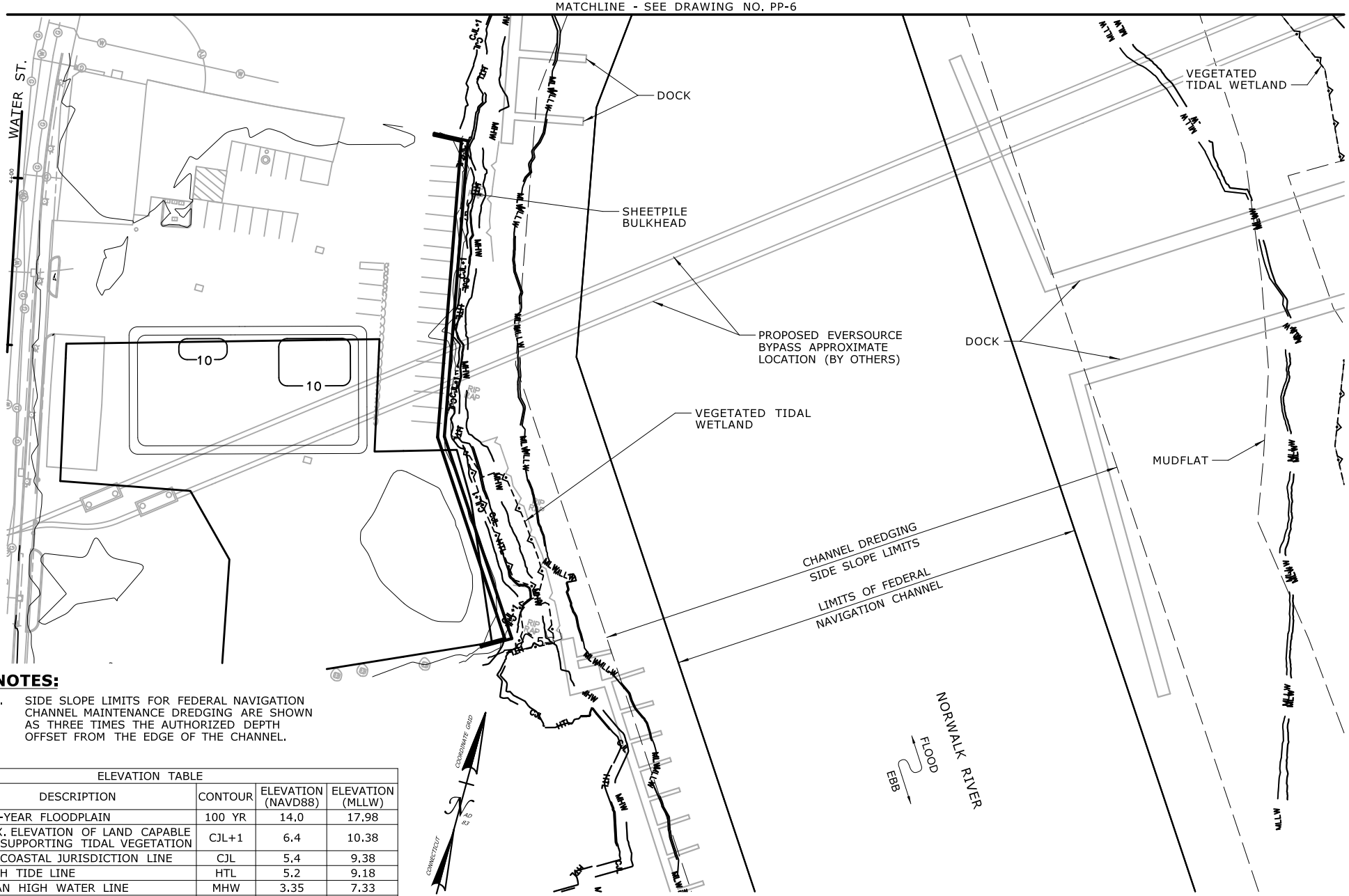
DRAWN: H. UPSHAW
CHECKED: T. ADINOLFI
APPROVED: C. BROWN

SIGNATURE BLOCK:

STATE OF CONNECTICUT
DEPARTMENT OF TRANSPORTATION

PROJECT TITLE:
WALK BRIDGE REPLACEMENT OVER THE NORWALK RIVER BRIDGE NO. 04288R/MP 41.5

TOWN: **NORWALK**
PROJECT NO.: **0301-0176**
DRAWING TITLE: **PLAN PROPOSED CONDITIONS (SHEET 7 OF 14)**
DATE: **REV 05-19-21**
DRAWING NO.: **PP-7**



NOTES:

1. SIDE SLOPE LIMITS FOR FEDERAL NAVIGATION CHANNEL MAINTENANCE DREDGING ARE SHOWN AS THREE TIMES THE AUTHORIZED DEPTH OFFSET FROM THE EDGE OF THE CHANNEL.

ELEVATION TABLE			
DESCRIPTION	CONTOUR	ELEVATION (NAVD88)	ELEVATION (MLLW)
100-YEAR FLOODPLAIN	100 YR	14.0	17.98
MAX. ELEVATION OF LAND CAPABLE OF SUPPORTING TIDAL VEGETATION	CJL+1	6.4	10.38
CT COASTAL JURISDICTION LINE	CJL	5.4	9.38
HIGH TIDE LINE	HTL	5.2	9.18
MEAN HIGH WATER LINE	MHW	3.35	7.33
MEAN LOW WATER LINE	MLW	-3.72	0.26
MEAN LOWER LOW WATER LINE	MLLW	-3.98	0.00

SCALE:
SCALE 1" = 80'
0 40 80

DRAWN: H. UPSHAW
CHECKED: T. ADINOLFI
APPROVED: C. BROWN

SIGNATURE BLOCK:

STATE OF CONNECTICUT
DEPARTMENT OF TRANSPORTATION

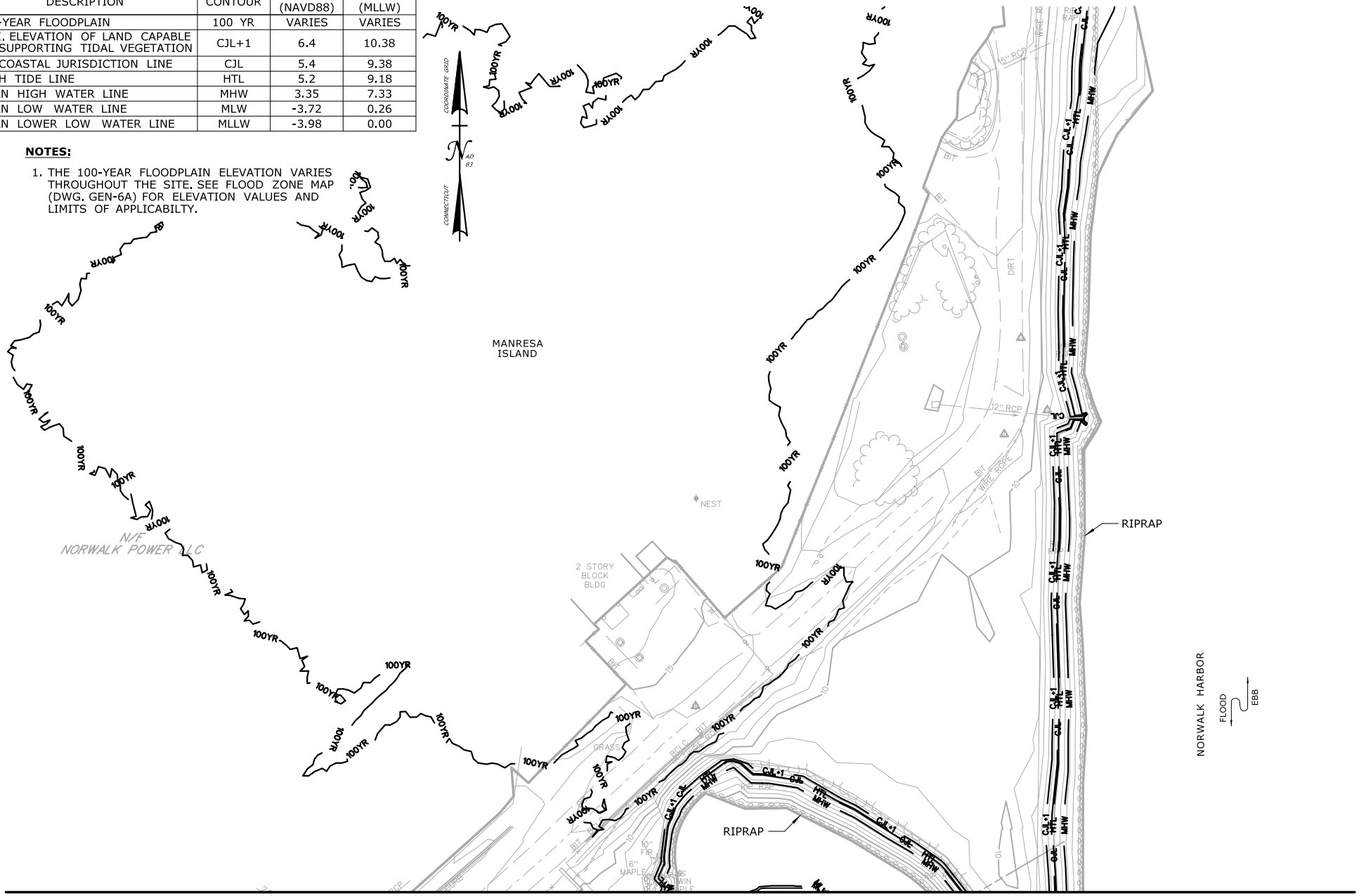
PROJECT TITLE:
WALK BRIDGE REPLACEMENT OVER THE NORWALK RIVER BRIDGE NO. 04288R/MP 41.5

TOWN: **NORWALK**
PROJECT NO.: **0301-0176**
DRAWING TITLE: **PLAN PROPOSED CONDITIONS (SHEET 8 OF 14)**
DATE: **REV 05-19-21**
DRAWING NO.: **PP-8**

ELEVATION TABLE			
DESCRIPTION	CONTOUR	ELEVATION (NAVD88)	ELEVATION (MLLW)
100-YEAR FLOODPLAIN	100 YR	VARIES	VARIES
MAX. ELEVATION OF LAND CAPABLE OF SUPPORTING TIDAL VEGETATION	CJL+1	6.4	10.38
CT COASTAL JURISDICTION LINE	CJL	5.4	9.38
HIGH TIDE LINE	HTL	5.2	9.18
MEAN HIGH WATER LINE	MHW	3.35	7.33
MEAN LOW WATER LINE	MLW	-3.72	0.26
MEAN LOWER LOW WATER LINE	MLLW	-3.98	0.00

NOTES:

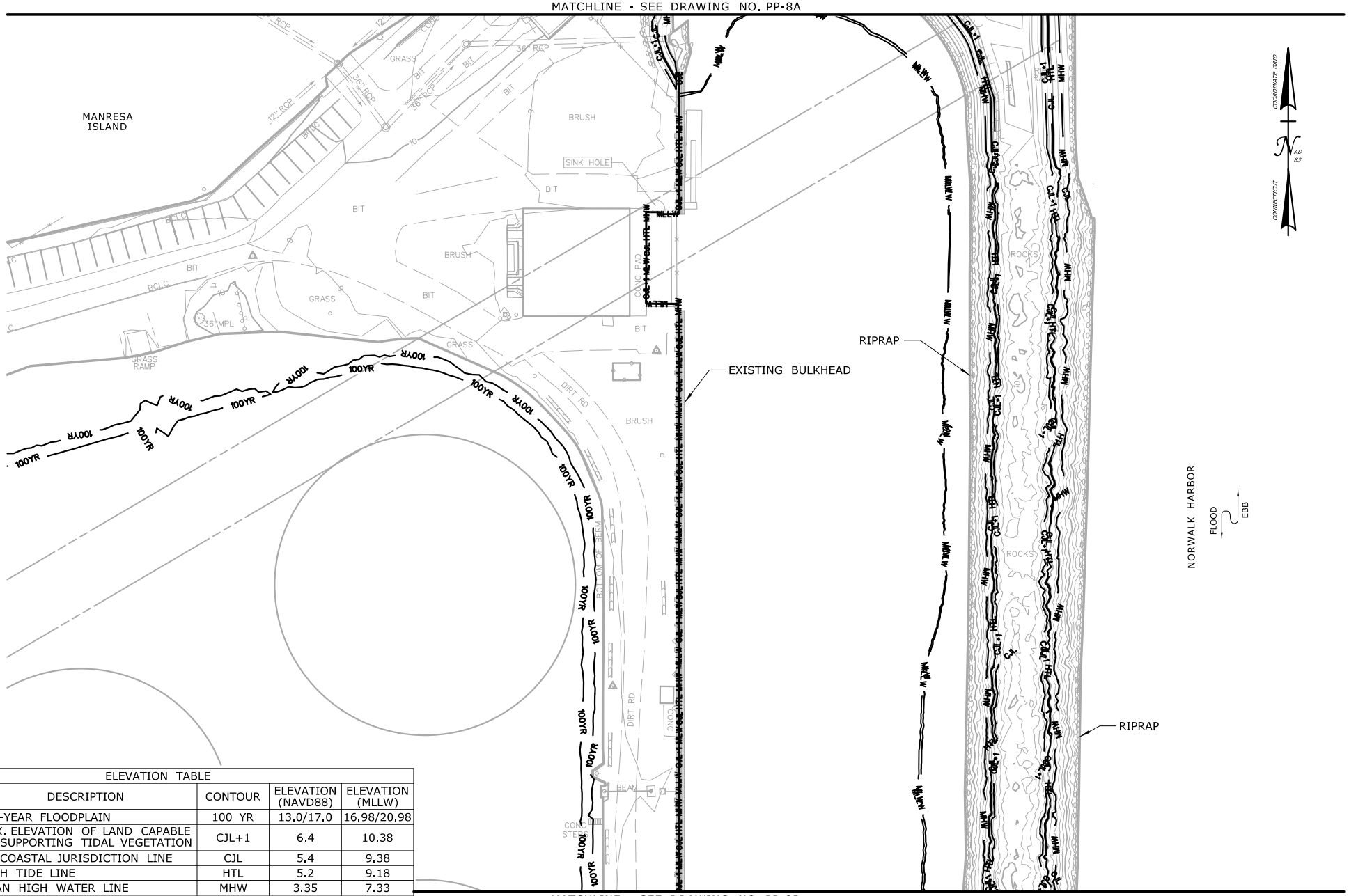
1. THE 100-YEAR FLOODPLAIN ELEVATION VARIES THROUGHOUT THE SITE. SEE FLOOD ZONE MAP (DWG. GEN-6A) FOR ELEVATION VALUES AND LIMITS OF APPLICABILTY.



MATCHLINE - SEE DRAWING NO. PP-8B

SCALE: SCALE 1" = 80' (0 40 80)	DRAWN: H. UPSHAW CHECKED: T. ADINOLFI APPROVED: C. BROWN	SIGNATURE BLOCK:	STATE OF CONNECTICUT DEPARTMENT OF TRANSPORTATION	PROJECT TITLE: WALK BRIDGE REPLACEMENT OVER THE NORWALK RIVER BRIDGE NO. 04288R/MP 41.5	TOWN: NORWALK DRAWING TITLE: PLAN PROPOSED CONDITIONS (SHEET 9 OF 14)	PROJECT NO.: 0301-0176 DATE: REV 7-31-20 DRAWING NO.: PP-8A

MATCHLINE - SEE DRAWING NO. PP-8A



MATCHLINE - SEE DRAWING NO. PP-8D

ELEVATION TABLE			
DESCRIPTION	CONTOUR	ELEVATION (NAVD88)	ELEVATION (MLLW)
100-YEAR FLOODPLAIN	100 YR	13.0/17.0	16.98/20.98
MAX. ELEVATION OF LAND CAPABLE OF SUPPORTING TIDAL VEGETATION	CJL+1	6.4	10.38
CT COASTAL JURISDICTION LINE	CJL	5.4	9.38
HIGH TIDE LINE	HTL	5.2	9.18
MEAN HIGH WATER LINE	MHW	3.35	7.33
MEAN LOW WATER LINE	MLW	-3.72	0.26
MEAN LOWER LOW WATER LINE	MLLW	-3.98	0.00

SCALE:

SCALE 1" = 80'

0 40 80

DRAWN: H. UPSHAW

CHECKED: T. ADINOLFI

APPROVED: C. BROWN

SIGNATURE BLOCK:

STATE OF CONNECTICUT
DEPARTMENT OF TRANSPORTATION

PROJECT TITLE:

WALK BRIDGE REPLACEMENT OVER THE NORWALK RIVER BRIDGE NO. 04288R/MP 41.5

TOWN: **NORWALK**

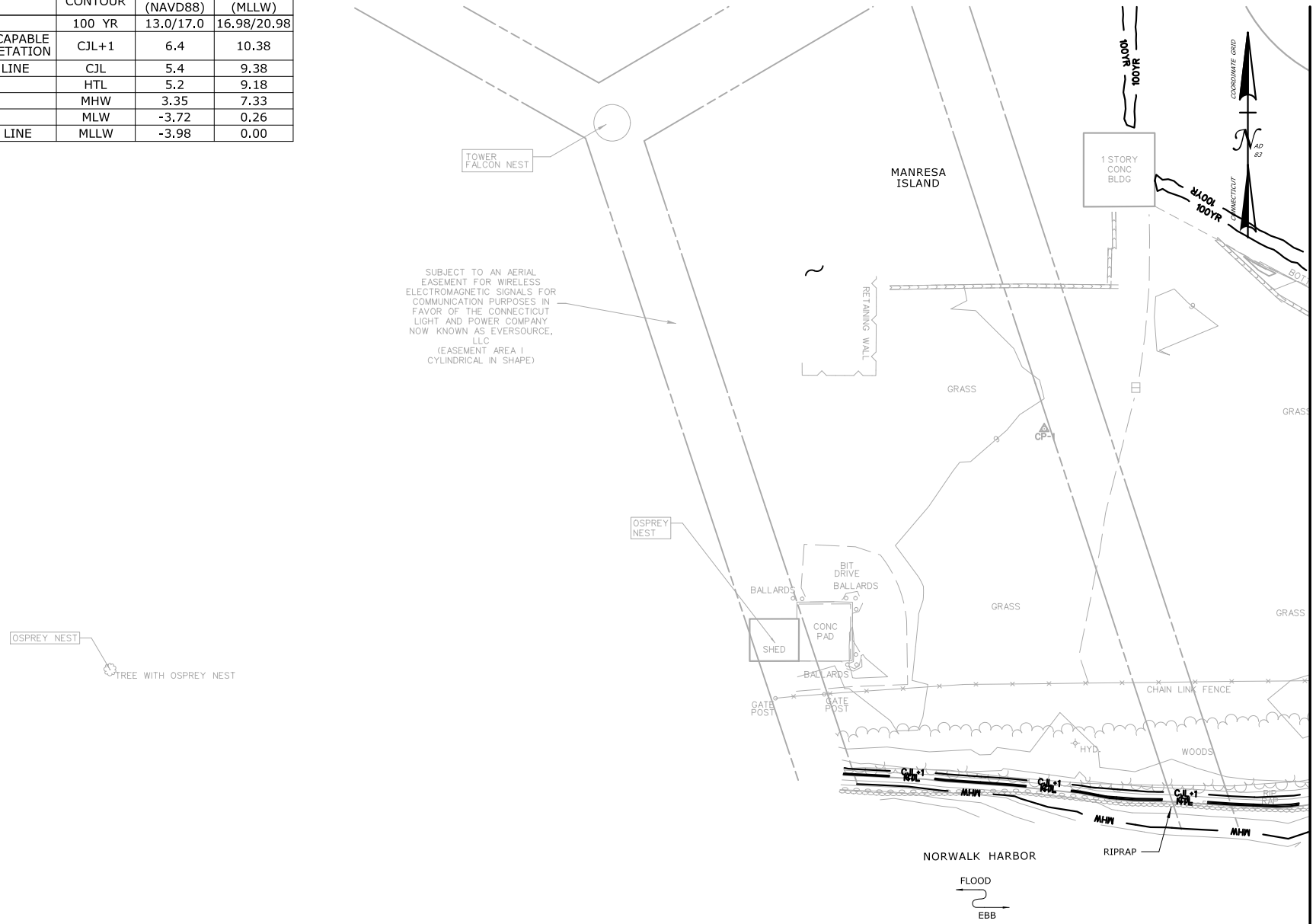
PROJECT NO.: **0301-0176**

DRAWING TITLE: **PLAN PROPOSED CONDITIONS (SHEET 10 OF 14)**

DATE: **REV 7-31-20**

DRAWING NO.: **PP-8B**

ELEVATION TABLE			
DESCRIPTION	CONTOUR	ELEVATION (NAVD88)	ELEVATION (MLLW)
100-YEAR FLOODPLAIN	100 YR	13.0/17.0	16.98/20.98
MAX. ELEVATION OF LAND CAPABLE OF SUPPORTING TIDAL VEGETATION	CJL+1	6.4	10.38
CT COASTAL JURISDICTION LINE	CJL	5.4	9.38
HIGH TIDE LINE	HTL	5.2	9.18
MEAN HIGH WATER LINE	MHW	3.35	7.33
MEAN LOW WATER LINE	MLW	-3.72	0.26
MEAN LOWER LOW WATER LINE	MLLW	-3.98	0.00



SCALE:
SCALE 1" = 80'
0 40 80

DRAWN: H. UPSHAW
CHECKED: T. ADINOLFI
APPROVED: C. BROWN

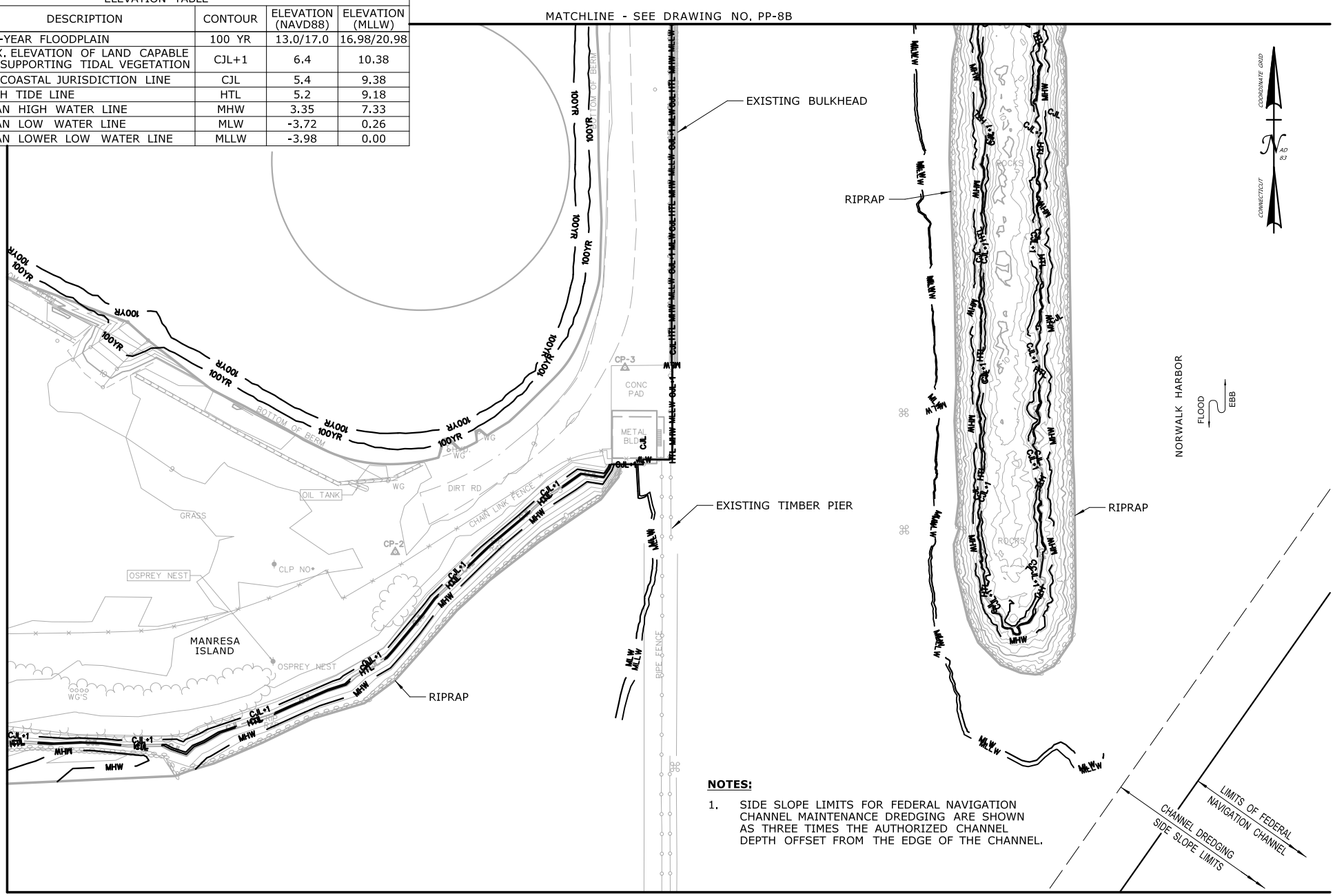
SIGNATURE BLOCK:

STATE OF CONNECTICUT
DEPARTMENT OF TRANSPORTATION

PROJECT TITLE:
WALK BRIDGE REPLACEMENT OVER THE NORWALK RIVER BRIDGE NO. 04288R/MP 41.5

TOWN: **NORWALK**
PROJECT NO.: **0301-0176**
DRAWING TITLE: **PLAN PROPOSED CONDITIONS (SHEET 11 OF 14)**
DATE: **REV 7-31-20**
DRAWING NO.: **PP-8C**

ELEVATION TABLE			
DESCRIPTION	CONTOUR	ELEVATION (NAVD88)	ELEVATION (MLLW)
100-YEAR FLOODPLAIN	100 YR	13.0/17.0	16.98/20.98
MAX. ELEVATION OF LAND CAPABLE OF SUPPORTING TIDAL VEGETATION	CJL+1	6.4	10.38
CT COASTAL JURISDICTION LINE	CJL	5.4	9.38
HIGH TIDE LINE	HTL	5.2	9.18
MEAN HIGH WATER LINE	MHW	3.35	7.33
MEAN LOW WATER LINE	MLW	-3.72	0.26
MEAN LOWER LOW WATER LINE	MLLW	-3.98	0.00



NOTES:

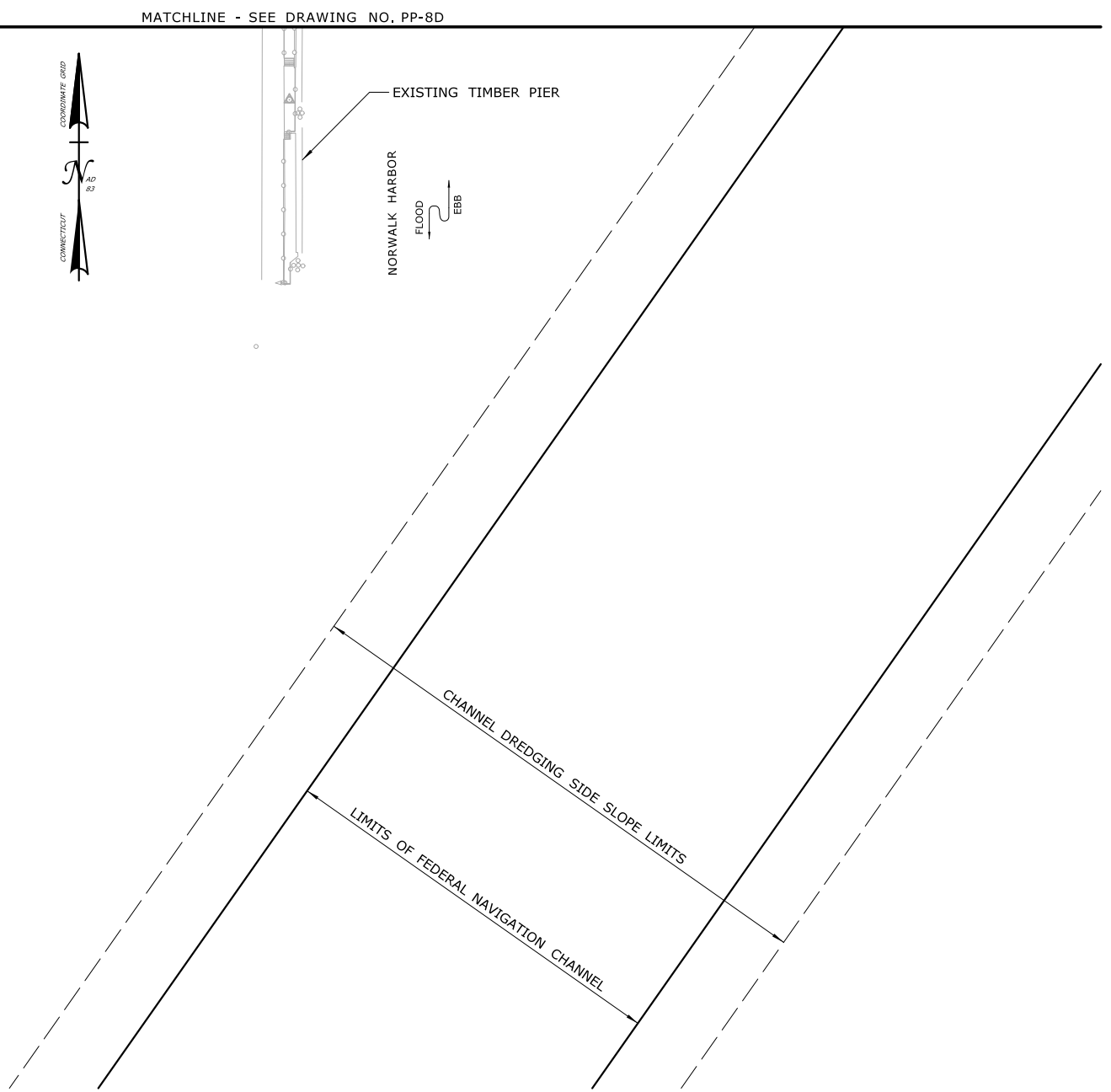
1. SIDE SLOPE LIMITS FOR FEDERAL NAVIGATION CHANNEL MAINTENANCE DREDGING ARE SHOWN AS THREE TIMES THE AUTHORIZED CHANNEL DEPTH OFFSET FROM THE EDGE OF THE CHANNEL.

SCALE: SCALE 1" = 80' (0 40 80)	DRAWN: H. UPSHAW CHECKED: T. ADINOLFI APPROVED: C. BROWN	SIGNATURE BLOCK:	STATE OF CONNECTICUT DEPARTMENT OF TRANSPORTATION	PROJECT TITLE: WALK BRIDGE REPLACEMENT OVER THE NORWALK RIVER BRIDGE NO. 04288R/MP 41.5	TOWN: NORWALK DRAWING TITLE: PLAN PROPOSED CONDITIONS (SHEET 12 OF 14)	PROJECT NO.: 0301-0176 DATE: REV 7-31-20 DRAWING NO.: PP-8D

ELEVATION TABLE			
DESCRIPTION	CONTOUR	ELEVATION (NAVD88)	ELEVATION (MLLW)
100-YEAR FLOODPLAIN	100 YR	17.0	20.98
MAX. ELEVATION OF LAND CAPABLE OF SUPPORTING TIDAL VEGETATION	CJL+1	6.4	10.38
CT COASTAL JURISDICTION LINE	CJL	5.4	9.38
HIGH TIDE LINE	HTL	5.2	9.18
MEAN HIGH WATER LINE	MHW	3.35	7.33
MEAN LOW WATER LINE	MLW	-3.72	0.26
MEAN LOWER LOW WATER LINE	MLLW	-3.98	0.00

NOTES:

1. SIDE SLOPE LIMITS FOR FEDERAL NAVIGATION CHANNEL MAINTENANCE DREDGING ARE SHOWN AS THREE TIMES THE AUTHORIZED CHANNEL DEPTH OFFSET FROM THE EDGE OF THE CHANNEL.



SCALE 1" = 80'
0 40 80

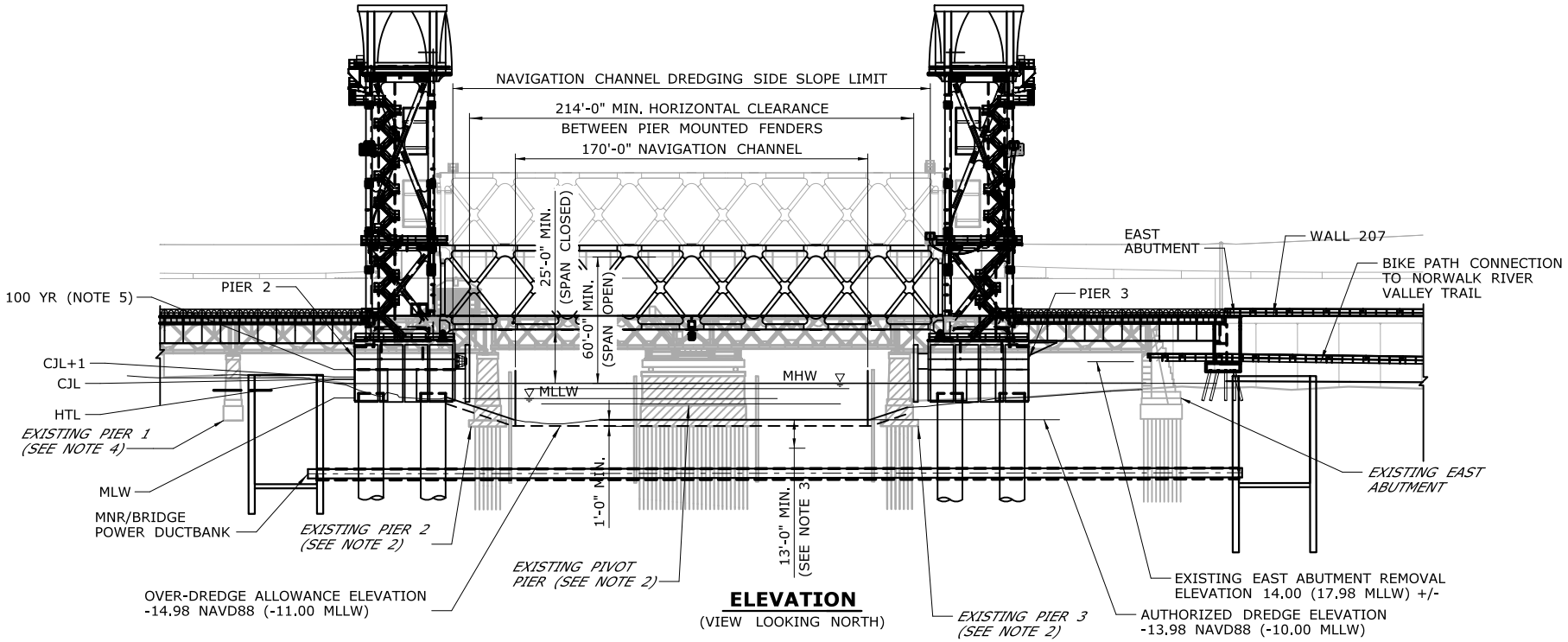
DRAWN: H. UPSHAW
CHECKED: T. ADINOLFI
APPROVED: C. BROWN

SIGNATURE BLOCK:

STATE OF CONNECTICUT
DEPARTMENT OF TRANSPORTATION

PROJECT TITLE:
WALK BRIDGE REPLACEMENT OVER THE NORWALK RIVER BRIDGE NO. 04288R/MP 41.5

TOWN: **NORWALK**
PROJECT NO.: **0301-0176**
DRAWING TITLE: **PLAN PROPOSED CONDITIONS (SHEET 13 OF 14)**
DATE: **REV 7-31-20**
DRAWING NO.: **PP-8E**



ELEVATION
(VIEW LOOKING NORTH)

ELEVATION TABLE			
DESCRIPTION	CONTOUR	ELEVATION (NAVD88)	ELEVATION (MLLW)
100-YEAR FLOODPLAIN	100 YR	10.0/12.0	13.98/15.98
MAX. ELEVATION OF LAND CAPABLE OF SUPPORTING TIDAL VEGETATION	CJL+1	6.4	10.38
CT COASTAL JURISDICTION LINE	CJL	5.4	9.38
HIGH TIDE LINE	HTL	5.2	9.18
MEAN HIGH WATER LINE	MHW	3.35	7.33
MEAN LOW WATER LINE	MLW	-3.72	0.26
MEAN LOWER LOW WATER LINE	MLLW	-3.98	0.00

NOTES:

1. VERTICAL DATUM IS NAVD88. ELEVATIONS RELATIVE TO MLLW TIDAL DATUM ARE SHOWN IN PARAENTHESES.
2. AUTHORIZED DREDGE ELEVATION FOR THE FEDERAL NAVIGATION CHANNEL IS 10 FEET BELOW MLLW (-13.98 NAVD88, -10.00 MLLW).
3. EXISTING BRIDGE FOUNDATIONS WILL BE REMOVED TO THE BOTTOM OF THE TIMBER MAT, PER COORDINATION WITH THE UNITED STATES ARMY CORPS OF ENGINEERS AND THE UNITED STATES COAST GUARD.
4. MNR AND BRIDGE POWER DUCTBANK CROSSINGS WILL BE INSTALLED AT LEAST 13 FEET BELOW THE AUTHORIZED DREDGE ELEVATION WITHIN LIMITS OF FEDERAL NAVIGATION CHANNEL.
5. EXISTING FOUNDATIONS AT PIER 1 AND WEST ABUTMENT WILL BE REMOVED TO AT LEAST 2 FEET BELOW SURROUNDING GRADE.
6. THE 100-YEAR FLOOD ELEVATION VARIES THROUGHOUT THE SITE. WITHIN THE RIVER, IT IS DEFINED AS EL. 12 (15.98 MLLW) AND EL. 10 (13.98 MLLW) DOWNSTREAM AND UPSTREAM OF THE BRIDGE, RESPECTIVELY. SEE FLOOD ZONE MAP (DWG. NO. GEN-6) FOR ADDITIONAL INFORMATION.
7. SIDE SLOPE LIMITS FOR FEDERAL NAVIGATION CHANNEL MAINTENANCE DREDGING ARE SHOWN AS THREE TIMES THE AUTHORIZED DEPTH OFFSET FROM THE EDGE OF THE CHANNEL.

SCALE: SCALE 1" = 80' (0 40 80)

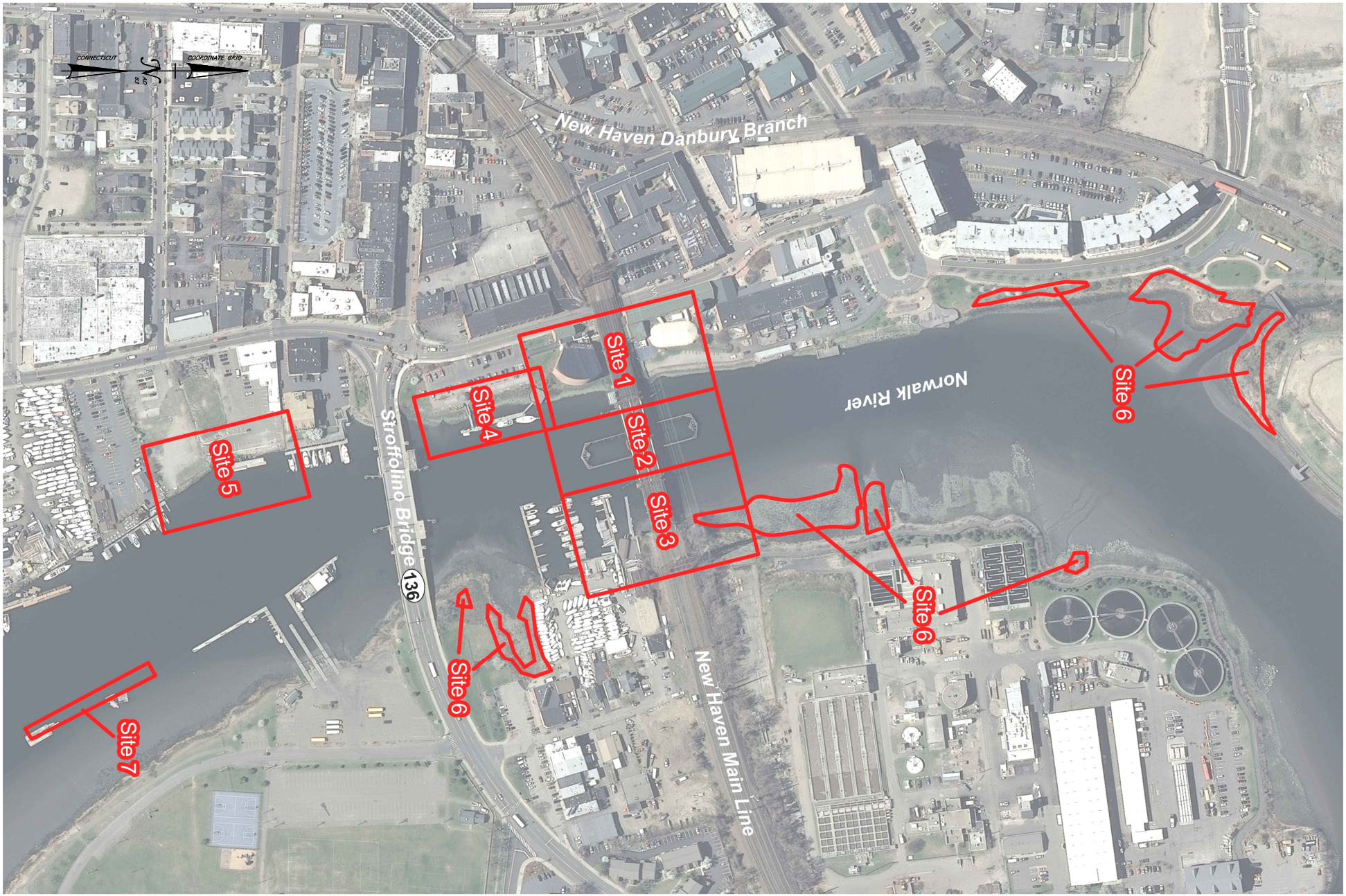
DRAWN: H. UPSHAW
CHECKED: T. ADINOLFI
APPROVED: C. BROWN

SIGNATURE BLOCK:

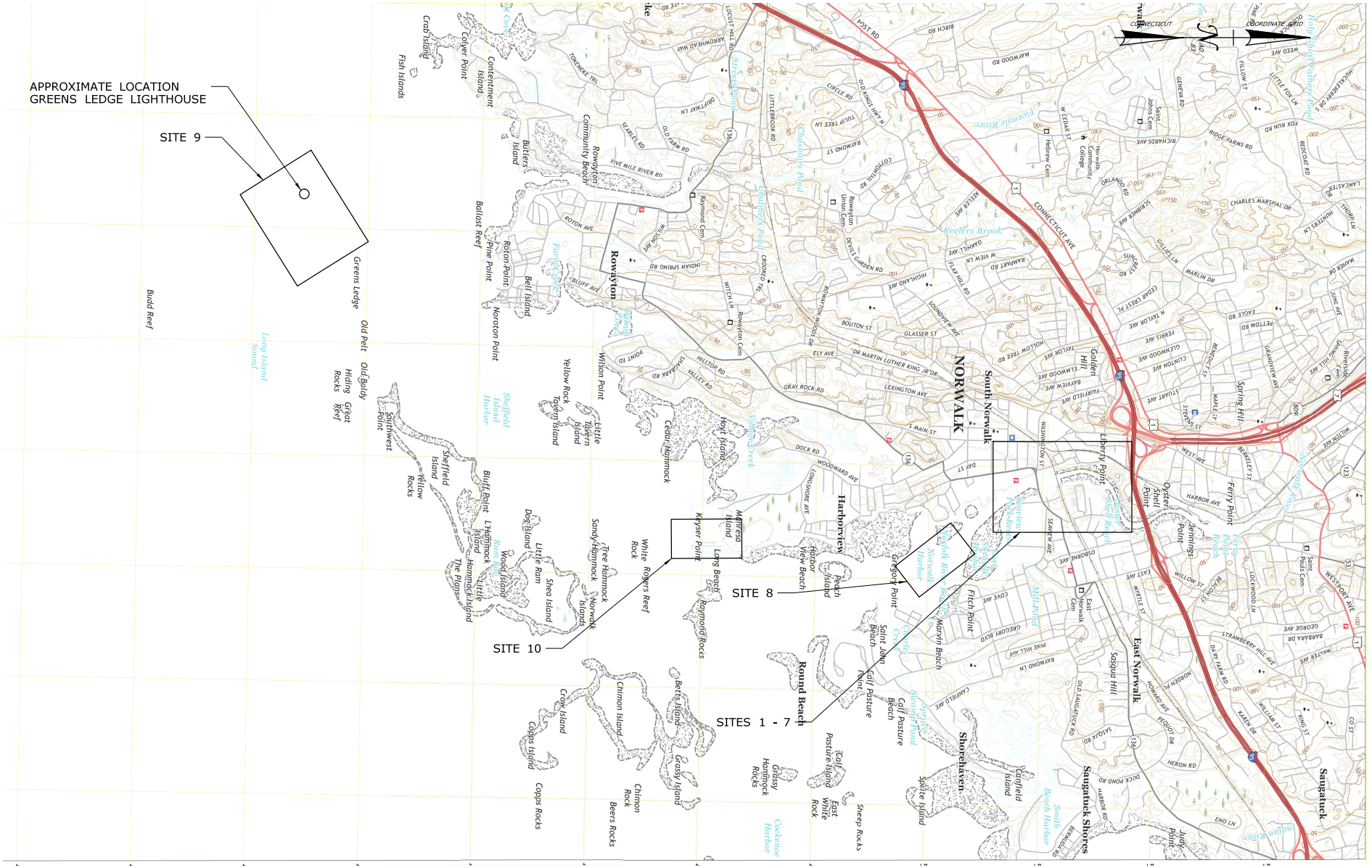
STATE OF CONNECTICUT
DEPARTMENT OF TRANSPORTATION

PROJECT TITLE:
WALK BRIDGE REPLACEMENT OVER THE NORWALK RIVER BRIDGE NO. 04288R/MP 41.5

TOWN: **NORWALK**
PROJECT NO.: **0301-0176**
DRAWING TITLE: **BRIDGE ELEVATION PROPOSED CONDITIONS (SHEET 14 OF 14)**
DATE: **REV 05-19-21**
DRAWING NO.: **PP-9**



SCALE: SCALE 1" = 300' (0 150 300)	DRAWN: T. ADINOLFI CHECKED: V. ROBBINS APPROVED: C. BROWN	SIGNATURE BLOCK:	STATE OF CONNECTICUT DEPARTMENT OF TRANSPORTATION	PROJECT TITLE: WALK BRIDGE REPLACEMENT OVER THE NORWALK RIVER BRIDGE NO. 04288R/MP 41.5	TOWN: NORWALK DRAWING TITLE: SUMMARY OF IMPACTS (SHEET 1 OF 17)	PROJECT NO.: 0301-0176 DATE: REV 7-31-20 DRAWING NO.: SUM-1



SCALE: SCALE 1" = 4000' (0 2000 4000)	DRAWN: T. ADINOLFI CHECKED: V. ROBBINS APPROVED: C. BROWN	SIGNATURE BLOCK:	STATE OF CONNECTICUT DEPARTMENT OF TRANSPORTATION	PROJECT TITLE: **WALK BRIDGE REPLACEMENT OVER THE NORWALK RIVER BRIDGE NO. 04288R/MP 41.5**	TOWN: **NORWALK** DRAWING TITLE: **SUMMARY OF IMPACTS (SHEET 2 OF 17)**	PROJECT NO.: **0301-0176** DATE: **REV 7-31-20** DRAWING NO.: **SUM-1A**

SUMMARY OF TEMPORARY IMPACTS (SF)

SITE	STATE				FEDERAL	
	VEGETATED TIDAL WETLAND	INTERTIDAL FLAT	INTERTIDAL ZONE	BELOW CJL	BELOW HTL	FEDERAL NAVIGATION CHANNEL
1	0	0	100	0	100	0
2	0	0	0	200	200	200
3	0	0	100	0	100	0
4	0	0	200	6,400	6,600	0
5	0	0	100	200	300	0
6	0	0	0	0	0	0
7	0	0	0	0	0	0
8	0	0	0	0	0	0
9	0	0	0	0	0	0
10	0	0	0	0	0	0
TOTAL	0	0	500	6,800	7,300	200

SUMMARY OF PERMANENT IMPACTS (SF)

SITE	STATE				FEDERAL	
	VEGETATED TIDAL WETLAND	INTERTIDAL FLAT	INTERTIDAL ZONE	BELOW CJL	BELOW HTL	FEDERAL NAVIGATION CHANNEL
1	2,800	0	7,100	9,100	17,200	0
2	0	0	0	50,500	50,500	50,500
3	3,700	200	10,200	17,000	29,600	0
4	100	0	0	4,800	4,900	0
5	1,900	0	8,100	9,900	19,500	0
6	0	0	0	0	0	0
7	0	0	0	100	100	0
8	0	0	0	300	300	0
9	0	0	0	400	400	0
10	0	0	0	0	0	0
TOTAL	8,500	200	25,400	92,100	122,500	50,500

SUMMARY OF DREDGING QUANTITIES

SITE	MAINTENANCE/NAVIGATION CHANNEL				NEW			
	REMOVAL		FILL (CY)	NET (CY)	REMOVAL		FILL (CY)	NET (CY)
	(SF)	(CY)			(SF)	(CY)		
1	4,900	330	0	330	19,100	4,350	4,290	60
2	40,800	4,210	0	4,210	21,600	3,670	4,110	-440
3	7,500	770	0	770	25,100	3,460	3,670	-210
4	0	0	0	0	4,600	300	0	300
5	0	0	0	0	21,600	6,400	0	6,400
6	0	0	0	0	0	0	0	0
7	0	0	0	0	0	0	0	0
8	0	0	0	0	0	0	0	0
9	0	0	0	0	0	0	0	0
10	0	0	0	0	0	0	0	0
TOTAL	53,200	5,310	0	5,310	92,000	18,180	12,070	6,110

NOTES:

1. VERTICAL DATUM IS NAVD 88. ELEVATIONS RELATIVE TO MLLW TIDAL DATUM ARE SHOWN IN PARENTHESES.
2. FOR PLAN LIMITS OF SITES USED FOR IMPACT SUMMARIES, SEE DWG. SUM-1.
3. ACTIVITIES AND IMPACTS IN/AROUND THE BRIDGE ARE LOCATED IN SITES 1,2, AND 3, DELINEATED BY THE LIMITS OF THE FEDERAL NAVIGATION CHANNEL. SITE 1 IS WEST OF THE CHANNEL, SITE 2 IS WITHIN THE CHANNEL, AND SITE 3 IS EAST OF THE CHANNEL.
4. SITE 4 INCLUDES IMPACTS ASSOCIATED WITH DREDGING, TEMPORARY DOCK RELOCATION AND PERMANENT DOCK CONSTRUCTION AT THE VESSEL DOCKS ON THE WEST SIDE OF THE RIVER SOUTH OF WALK BRIDGE.
5. SITE 5 INCLUDES IMPACTS ASSOCIATED WITH DREDGING, BULKHEAD CONSTRUCTION AND TEMPORARY DOCK CONSTRUCTION AT THE MARINE STAGING YARD.
6. SITE 6 CONSIST OF SIX INDIVIDUAL WETLAND MITIGATION SITES ALONG THE NORWALK RIVER. THERE ARE NO IMPACTS ASSOCIATED WITH SITE 6.
7. SITES 7, 8 AND 9 INCLUDES IMPACTS ASSOCIATED WITH BARGE MOORING IN THE NORWALK RIVER AND LONG ISLAND SOUND REQUIRED FOR CONSTRUCTION.
8. SITE 10 IS A TEMPORARY STAGING YARD AT MANRESA ISLAND. THERE ARE NO IMPACTS ASSOCIATED WITH SITE 10.
9. IMPACTS WITH DURATION'S LESS THAN 24 MONTHS ARE CONSIDERED TEMPORARY. IMPACTS DUE TO TEMPORARY FILL AND/OR STRUCTURES THAT ARE EXPECTED TO BE IN PLACE MORE THAN 24 MONTHS ARE CONSIDERED PERMANENT.
10. INTERTIDAL ZONE IMPACTS INCLUDE AREAS BETWEEN MLW AND HTL THAT ARE NOT WITHIN A VEGETATED TIDAL WETLAND OR INTERTIDAL FLAT.
11. IMPACTS BELOW THE CJL INCLUDE AREAS BELOW THE CJL ELEVATION, SHORE TO SHORE, THAT ARE NOT INCLUDED AS VEGETATED TIDAL WETLAND, INTERTIDAL FLAT, OR INTERTIDAL ZONE IMPACTS.
12. IMPACTS BELOW THE HTL INCLUDE ALL AREAS BELOW THE HTL ELEVATION, SHORE TO SHORE, INCLUDING THOSE DESIGNATED AS VEGETATED TIDAL WETLAND, INTERTIDAL FLAT, OR INTERTIDAL ZONE.
13. FEDERAL NAVIGATION CHANNEL IMPACTS INCLUDE TEMPORARY AND PERMANENT IMPACTS TO NAVIGABILITY OF THE RIVER WITHIN THE LIMITS OF THE FEDERAL NAVIGATION CHANNEL.
14. PERMANENT VEGETATED TIDAL WETLAND IMPACT IN SITE 1 AND 3 INCLUDE IMPACTS DUE TO SHADING. IN THE EVENT THAT VEGETATION IS LOST DURING CONSTRUCTION, THIS AREA IS CONSERVATIVELY INCLUDED AS A PERMANENT IMPACT IN THE DETERMINATION OF MITIGATION REQUIREMENTS.
15. THE AUTHORIZED CHANNEL DEPTH WITHIN THE LIMITS OF MAINTENANCE DREDGING IS 10 FT, MEASURED FROM MLLW, WITH CORRESPONDING SIDE SLOPE LIMITS EXTENDING 30 FT (AT 3H:1V SLOPE) LANDWARD OF THE FEDERAL NAVIGATION CHANNEL LIMITS.
16. MAINTENANCE DREDGING INCLUDES ALL MATERIAL WITHIN THE NAVIGATION CHANNEL AND CHANNEL DREDGING SIDE SLOPE LIMITS. NEW DREDGING INCLUDES ALL MATERIAL THAT IS NOT DEFINED AS MAINTENANCE DREDGING. NET DREDGING IS EQUAL TO THE VOLUME OF MATERIAL REMOVED LESS FILL PLACED WITHIN THE DREDGED AREA.
17. FOR SUMMARY OF FLOODPLAIN IMPACTS, SEE DWGS. FP-1 TO FP-11.
18. THE 100-YEAR FLOOD ELEVATION VARIES THROUGHOUT THE SITE. SEE FLOOD ZONE MAP (DWG. GEN-6) FOR ELEVATION VALUES AND LIMITS OF APPLICABILITY.

ELEVATION TABLE			
DESCRIPTION	CONTOUR	ELEVATION (NAVD88)	ELEVATION (MLLW)
100-YEAR FLOODPLAIN	100 YR	SEE NOTE 18	SEE NOTE 18
MAX. ELEVATION OF LAND CAPABLE OF SUPPORTING TIDAL VEGETATION	CJL+1	6.4	10.38
CT COASTAL JURISDICTION LINE	CJL	5.4	9.38
HIGH TIDE LINE	HTL	5.2	9.18
MEAN HIGH WATER LINE	MHW	3.35	7.33
MEAN LOW WATER LINE	MLW	-3.72	0.26
MEAN LOWER LOW WATER LINE	MLLW	-3.98	0

SCALE:

DRAWN: T. ADINOLFI

CHECKED: V. ROBBINS

APPROVED: C. BROWN

SIGNATURE BLOCK:

STATE OF CONNECTICUT
DEPARTMENT OF TRANSPORTATION

PROJECT TITLE:
WALK BRIDGE REPLACEMENT OVER THE NORWALK RIVER BRIDGE NO. 04288R/MP 41.5

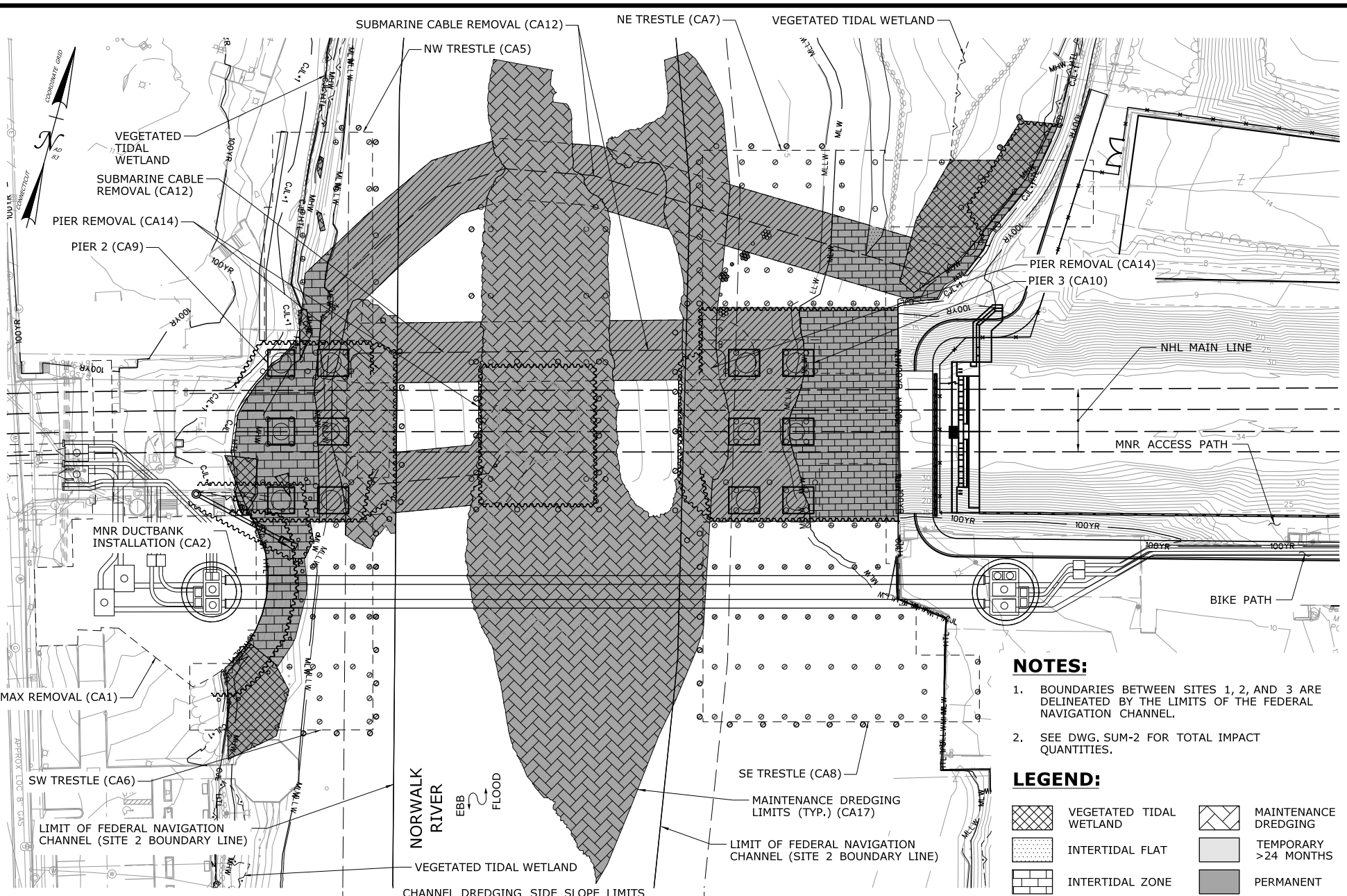
TOWN: **NORWALK**

PROJECT NO.: **0301-0176**

DRAWING TITLE: **SUMMARY OF IMPACTS (SHEET 3 OF 17)**

DATE: **REV 02-23-21**

DRAWING NO.: **SUM-2**



NOTES:

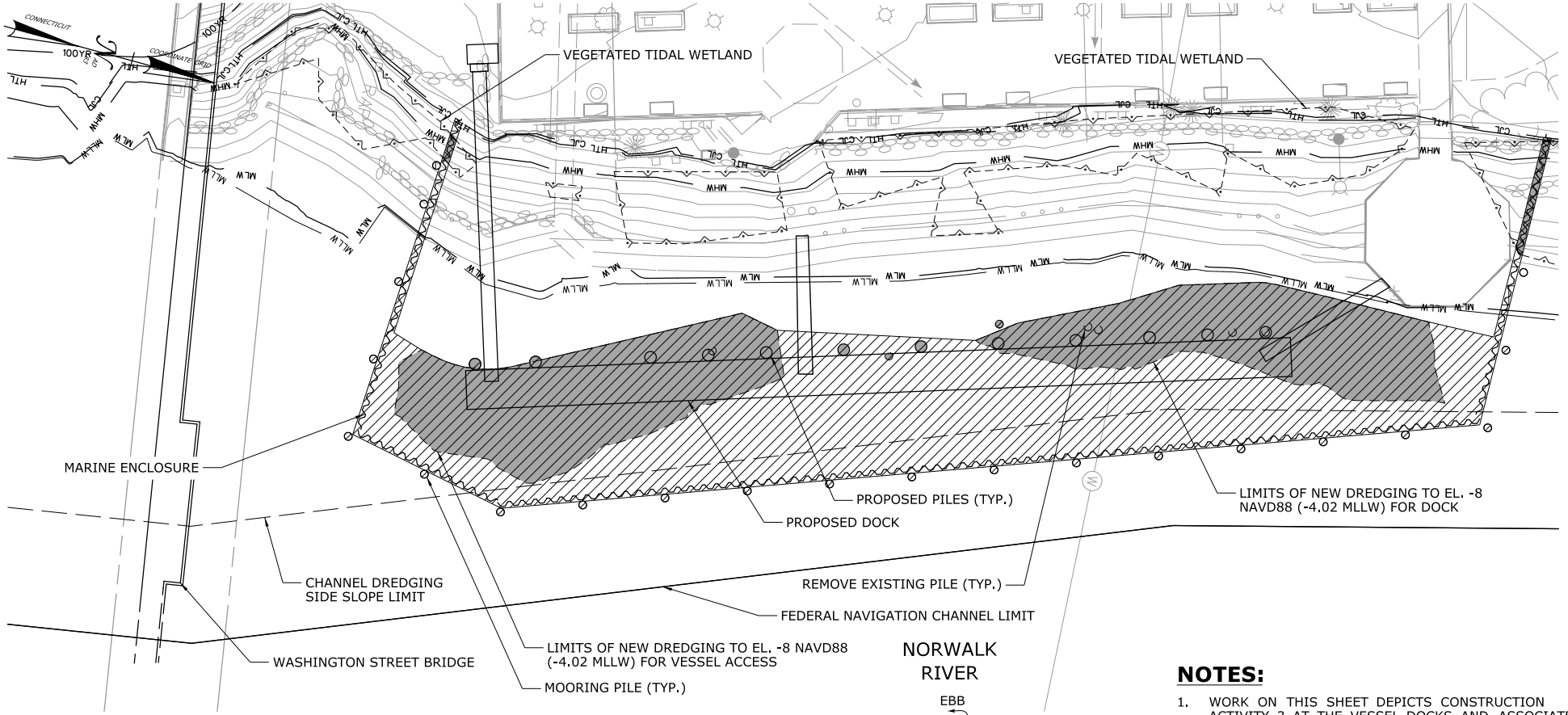
1. BOUNDARIES BETWEEN SITES 1, 2, AND 3 ARE DELINEATED BY THE LIMITS OF THE FEDERAL NAVIGATION CHANNEL.
2. SEE DWG. SUM-2 FOR TOTAL IMPACT QUANTITIES.

LEGEND:

- VEGETATED TIDAL WETLAND
- INTERTIDAL FLAT
- INTERTIDAL ZONE
- BELOW CJL
- MAINTENANCE DREDGING
- TEMPORARY >24 MONTHS
- PERMANENT
- SHEETPILE MARINE ENCLOSURE

PLAN - SITE 1 **PLAN - SITE 2** **PLAN - SITE 3**

SCALE: SCALE 1" = 80' (0 40 80)	DRAWN: T. ADINOLFI CHECKED: V. ROBBINS APPROVED: C. BROWN	SIGNATURE BLOCK:	STATE OF CONNECTICUT DEPARTMENT OF TRANSPORTATION	PROJECT TITLE: WALK BRIDGE REPLACEMENT OVER THE NORWALK RIVER BRIDGE NO. 04288R/MP 41.5	TOWN: NORWALK DRAWING TITLE: SITES 1, 2 & 3 STATE (SHEET 4 OF 17)	PROJECT NO.: 0301-0176 DATE: REV 05-19-21 DRAWING NO.: SUM-3



PLAN - SITE 4

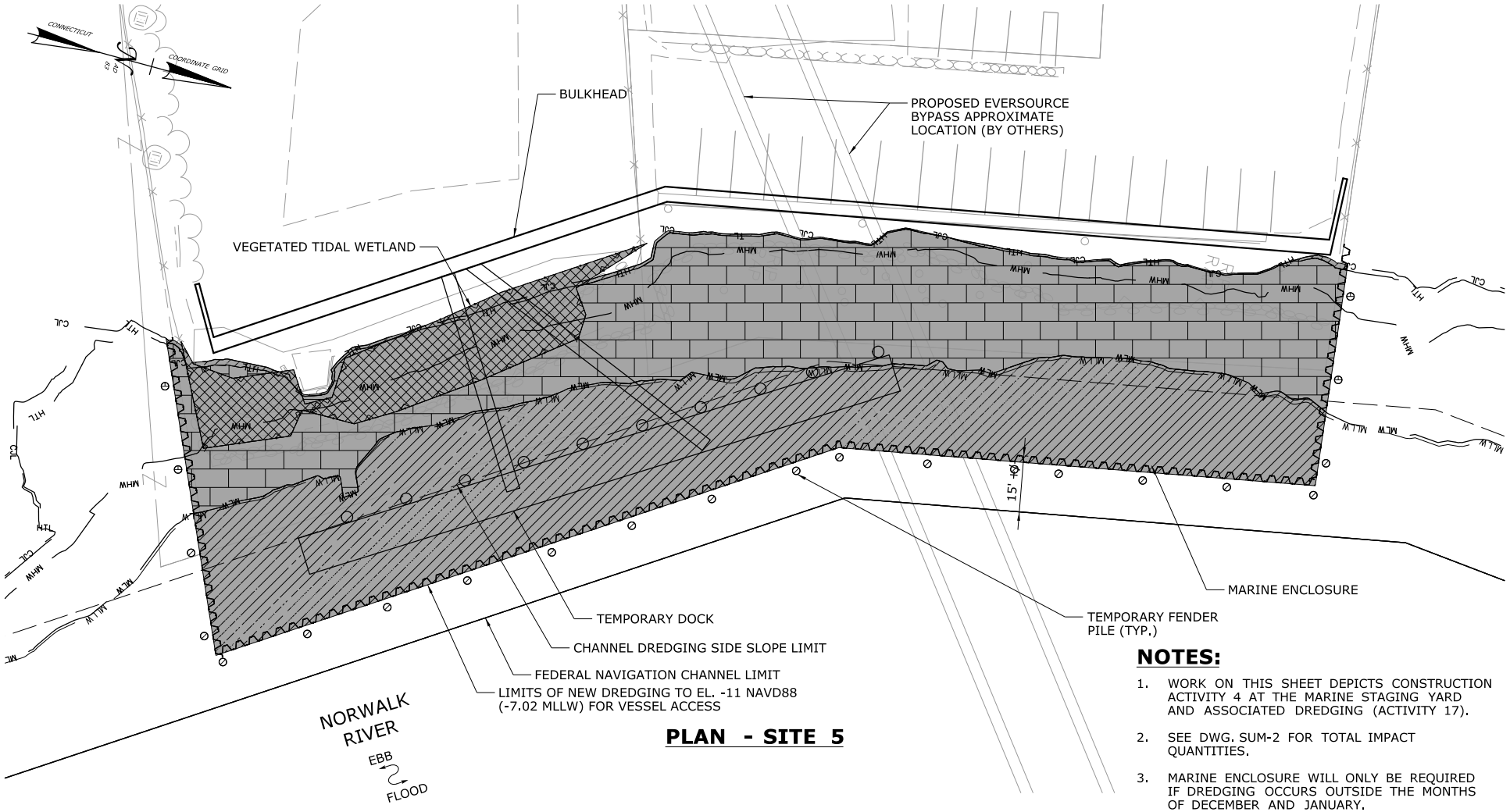
NOTES:

1. WORK ON THIS SHEET DEPICTS CONSTRUCTION ACTIVITY 3 AT THE VESSEL DOCKS AND ASSOCIATED DREDGING (ACTIVITY 17).
2. SEE DWG. SUM-2 FOR TOTAL IMPACT QUANTITIES.
3. MARINE ENCLOSURE WILL ONLY BE REQUIRED IF DREDGING OCCURS OUTSIDE THE MONTHS OF DECEMBER AND JANUARY.

LEGEND:

- VEGETATED TIDAL WETLAND
- INTERTIDAL FLAT
- INTERTIDAL ZONE
- BELOW CJL
- MAINTENANCE DREDGING
- TEMPORARY >24 MONTHS
- PERMANENT
- SHEETPILE MARINE ENCLOSURE

SCALE: SCALE 1" = 40' (0, 20, 40)	DRAWN: T. ADINOLFI CHECKED: V. ROBBINS APPROVED: C. BROWN	SIGNATURE BLOCK:	STATE OF CONNECTICUT DEPARTMENT OF TRANSPORTATION	PROJECT TITLE: WALK BRIDGE REPLACEMENT OVER THE NORWALK RIVER BRIDGE NO. 04288R/MP 41.5	TOWN: NORWALK DRAWING TITLE: SITE 4 STATE (SHEET 5 OF 17)	PROJECT NO.: 0301-0176 DATE: REV 02-23-21 DRAWING NO.: SUM-4



PLAN - SITE 5

NOTES:

1. WORK ON THIS SHEET DEPICTS CONSTRUCTION ACTIVITY 4 AT THE MARINE STAGING YARD AND ASSOCIATED DREDGING (ACTIVITY 17).
2. SEE DWG. SUM-2 FOR TOTAL IMPACT QUANTITIES.
3. MARINE ENCLOSURE WILL ONLY BE REQUIRED IF DREDGING OCCURS OUTSIDE THE MONTHS OF DECEMBER AND JANUARY.

LEGEND:

- VEGETATED TIDAL WETLAND
- INTERTIDAL FLAT
- INTERTIDAL ZONE
- BELOW CJL
- MAINTENANCE DREDGING
- TEMPORARY >24 MONTHS
- PERMANENT
- SHEETPILE MARINE ENCLOSURE

SCALE: SCALE 1" = 40' (0, 20, 40)

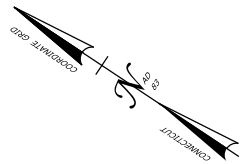
DRAWN: T. ADINOLFI
CHECKED: V. ROBBINS
APPROVED: C. BROWN

SIGNATURE BLOCK:

STATE OF CONNECTICUT
DEPARTMENT OF TRANSPORTATION

PROJECT TITLE:
WALK BRIDGE REPLACEMENT OVER THE NORWALK RIVER BRIDGE NO. 04288R/MP 41.5

TOWN: **NORWALK**
PROJECT NO.: **0301-0176**
DRAWING TITLE: **SITE 5 STATE (SHEET 6 OF 17)**
DATE: **REV 05-19-21**
DRAWING NO.: **SUM-5**



MOORING BUOY (TYP.)

LIMITS OF MOORING BUOY LOCATION

CHANNEL DREDGING SIDE SLOPE LIMITS

LIMITS OF FEDERAL NAVIGATION CHANNEL

FLOOD

EBB

NORWALK RIVER

EXISTING DOCKS (TYP.)

PLAN - SITE 7

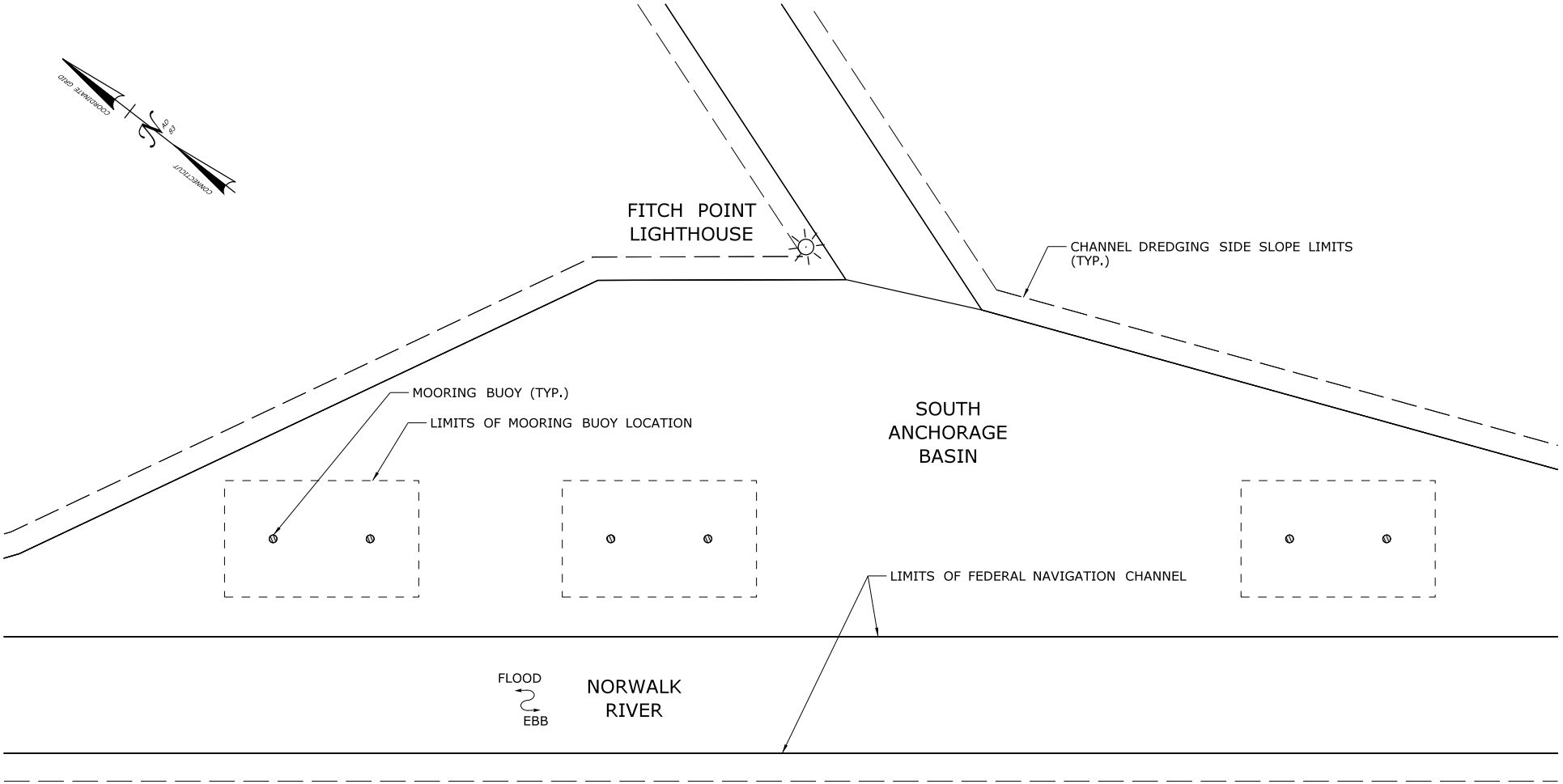
NOTES:

1. SEE DWG. SUM-2 FOR TOTAL IMPACT QUANTITIES.
2. SEE ACTIVITY 11 FOR BARGE MOORING DETAILS.

LEGEND:

- VEGETATED TIDAL WETLAND
- INTERTIDAL FLAT
- INTERTIDAL ZONE
- BELOW CJL
- MAINTENANCE DREDGING
- TEMPORARY >24 MONTHS
- PERMANENT
- SHEETPILE MARINE ENCLOSURE

SCALE: SCALE 1" = 100' (0, 50, 100)	DRAWN: T. ADINOLFI CHECKED: V. ROBBINS APPROVED: C. BROWN	SIGNATURE BLOCK:	STATE OF CONNECTICUT DEPARTMENT OF TRANSPORTATION	PROJECT TITLE: WALK BRIDGE REPLACEMENT OVER THE NORWALK RIVER BRIDGE NO. 04288R/MP 41.5	TOWN: NORWALK DRAWING TITLE: SITE 7 STATE (SHEET 7 OF 17)	PROJECT NO.: 0301-0176 DATE: REV 02-23-21 DRAWING NO.: SUM-5A



PLAN - SITE 8

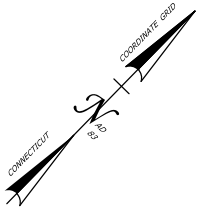
NOTES:

1. SEE DWG. SUM-2 FOR TOTAL IMPACT QUANTITIES.
2. SEE ACTIVITY 11 FOR BARGE MOORING DETAILS.

LEGEND:

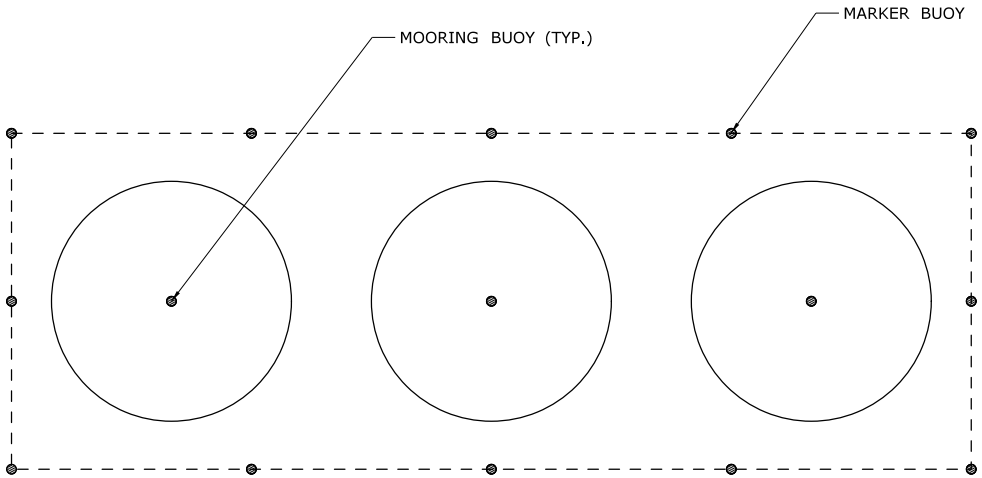
- VEGETATED TIDAL WETLAND
- INTERTIDAL FLAT
- INTERTIDAL ZONE
- BELOW CJL
- MAINTENANCE DREDGING
- TEMPORARY >24 MONTHS
- PERMANENT
- SHEETPILE MARINE ENCLOSURE

SCALE: SCALE 1" = 200' (0 100 200)	DRAWN: T. ADINOLFI CHECKED: V. ROBBINS APPROVED: C. BROWN	SIGNATURE BLOCK:	STATE OF CONNECTICUT DEPARTMENT OF TRANSPORTATION	PROJECT TITLE: WALK BRIDGE REPLACEMENT OVER THE NORWALK RIVER BRIDGE NO. 04288R/MP 41.5	TOWN: NORWALK DRAWING TITLE: SITE 8 STATE (SHEET 8 OF 17)	PROJECT NO.: 0301-0176 DATE: REV 7-31-20 DRAWING NO.: SUM-5B



LONG ISLAND SOUND

GREENS
LEDGE
LIGHTHOUSE



PLAN - SITE 9

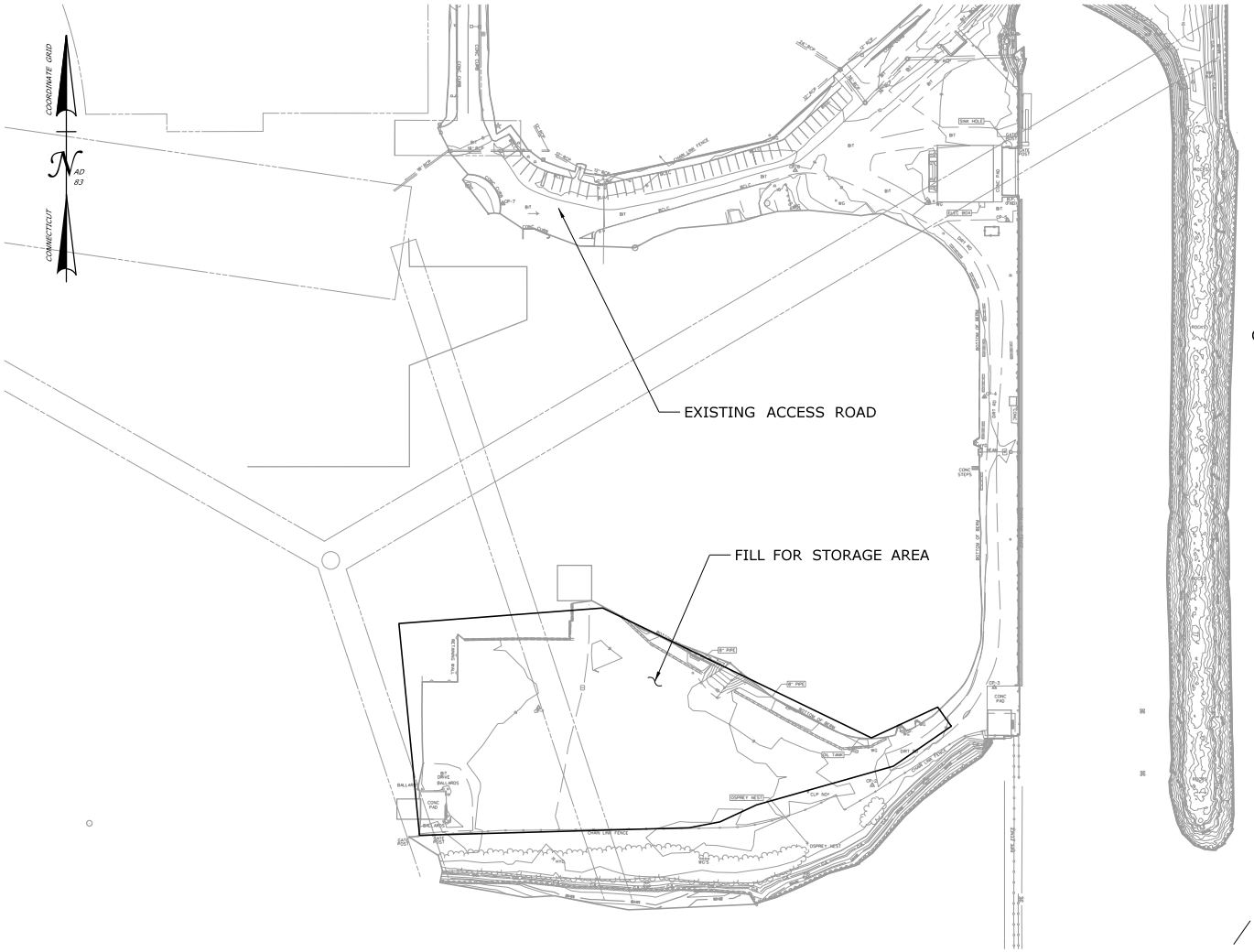
NOTES:

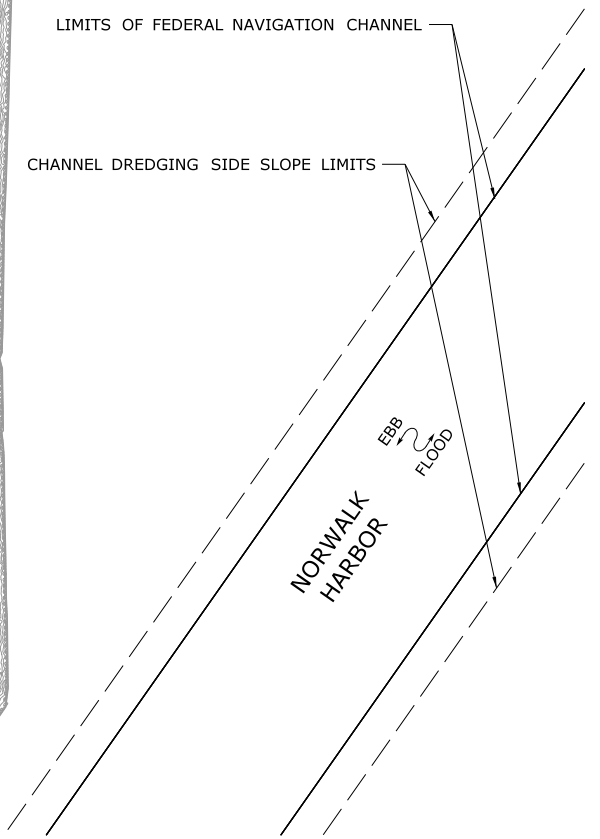
1. SEE DWG. SUM-2 FOR TOTAL IMPACT QUANTITIES.
2. SEE ACTIVITY 11 FOR BARGE MOORING DETAILS.

LEGEND:

- VEGETATED TIDAL WETLAND
- INTERTIDAL FLAT
- INTERTIDAL ZONE
- BELOW CJL
- MAINTENANCE DREDGING
- TEMPORARY >24 MONTHS
- PERMANENT
- SHEETPILE MARINE ENCLOSURE

SCALE: SCALE 1" = 400' (0 200 400)	DRAWN: T. ADINOLFI CHECKED: V. ROBBINS APPROVED: C. BROWN	SIGNATURE BLOCK:	STATE OF CONNECTICUT DEPARTMENT OF TRANSPORTATION	PROJECT TITLE: WALK BRIDGE REPLACEMENT OVER THE NORWALK RIVER BRIDGE NO. 04288R/MP 41.5	TOWN: NORWALK DRAWING TITLE: SITE 9 STATE (SHEET 9 OF 17)	PROJECT NO.: 0301-0176 DATE: REV 02-23-21 DRAWING NO.: SUM-5C





PLAN - SITE 10

NOTES:

1. SEE DWG. SUM-2 FOR TOTAL IMPACT QUANTITIES.
2. SEE ACTIVITY 19 FOR MANERESA ISLAND DETAILS.
3. NO FILL SHALL BE PLACED BELOW THE CJL.

LEGEND:

- VEGETATED TIDAL WETLAND
- INTERTIDAL FLAT
- INTERTIDAL ZONE
- BELOW CJL
- MAINTENANCE DREDGING
- TEMPORARY >24 MONTHS
- PERMANENT
- SHEETPILE MARINE ENCLOSURE

SCALE: SCALE 1" = 200' (0, 100, 200)

DRAWN: T. ADINOLFI

CHECKED: V. ROBBINS

APPROVED: C. BROWN

SIGNATURE BLOCK:

STATE OF CONNECTICUT
DEPARTMENT OF TRANSPORTATION

PROJECT TITLE:
WALK BRIDGE REPLACEMENT OVER THE NORWALK RIVER BRIDGE NO. 04288R/MP 41.5

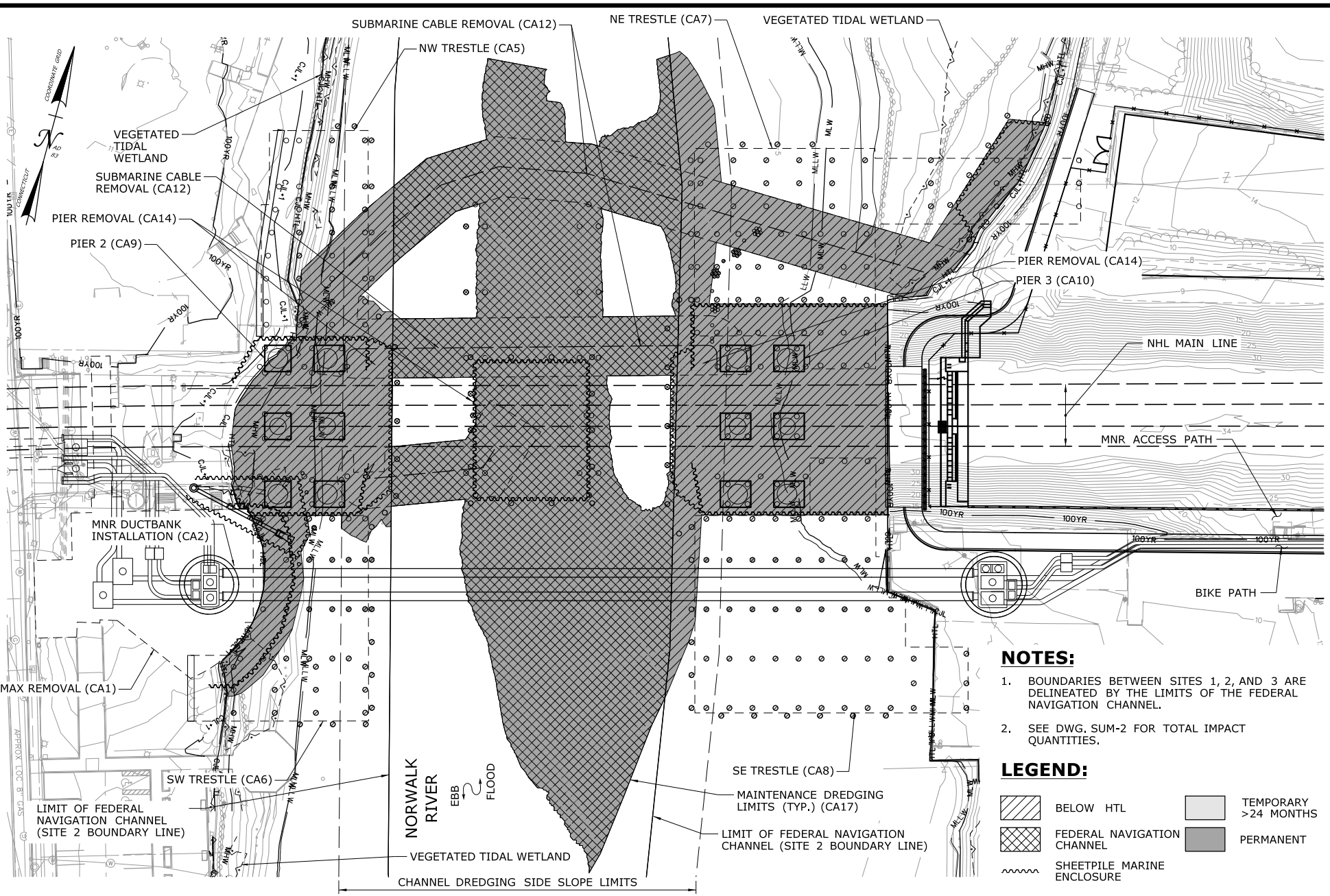
TOWN: **NORWALK**

PROJECT NO.: **0301-0176**

DRAWING TITLE: **SITE 10 STATE (SHEET 10 OF 17)**

DATE: **REV 7-31-20**

DRAWING NO.: **SUM-5D**



NOTES:

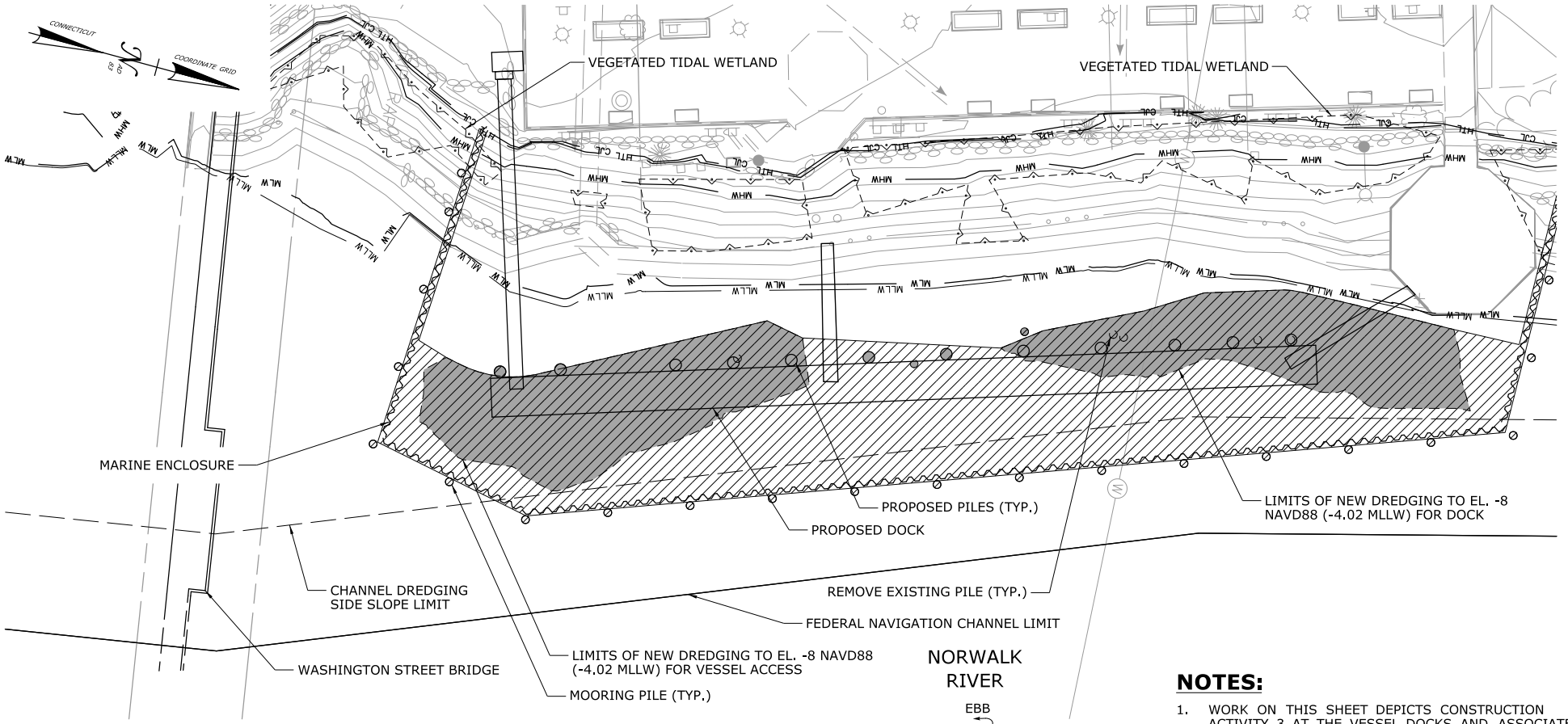
1. BOUNDARIES BETWEEN SITES 1, 2, AND 3 ARE DELINEATED BY THE LIMITS OF THE FEDERAL NAVIGATION CHANNEL.
2. SEE DWG. SUM-2 FOR TOTAL IMPACT QUANTITIES.

LEGEND:

- BELOW HTL
- FEDERAL NAVIGATION CHANNEL
- SHEETPILE MARINE ENCLOSURE
- TEMPORARY >24 MONTHS
- PERMANENT

PLAN - SITE 1 **PLAN - SITE 2** **PLAN - SITE 3**

SCALE: SCALE 1" = 80' (0 40 80)	DRAWN: T. ADINOLFI CHECKED: V. ROBBINS APPROVED: C. BROWN	SIGNATURE BLOCK:	STATE OF CONNECTICUT DEPARTMENT OF TRANSPORTATION	PROJECT TITLE: WALK BRIDGE REPLACEMENT OVER THE NORWALK RIVER BRIDGE NO. 04288R/MP 41.5	TOWN: NORWALK DRAWING TITLE: SITES 1, 2 & 3 FEDERAL (SHEET 11 OF 17)	PROJECT NO.: 0301-0176 DATE: REV 05-19-21 DRAWING NO.: SUM-6



PLAN - SITE 4

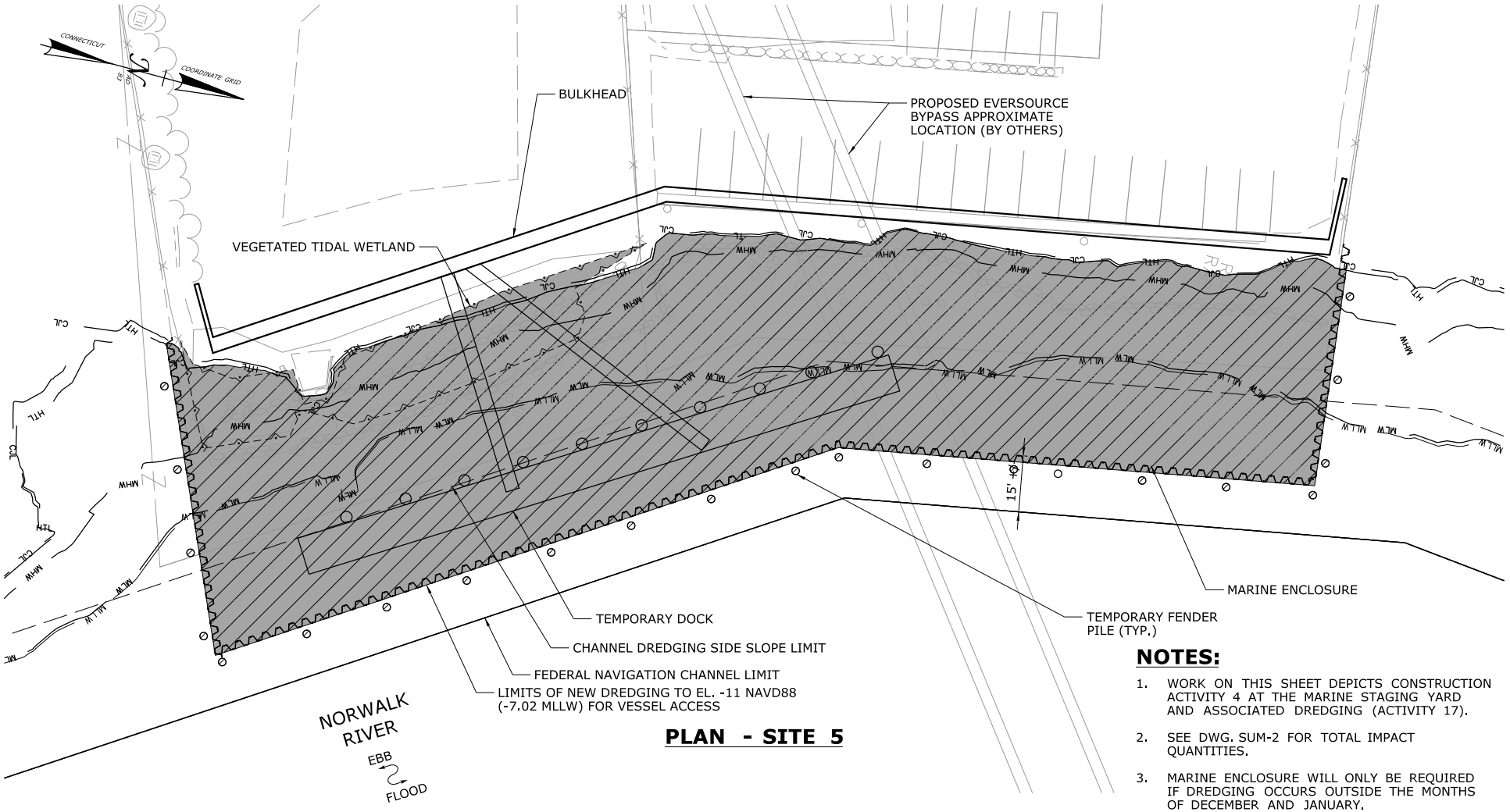
NOTES:

1. WORK ON THIS SHEET DEPICTS CONSTRUCTION ACTIVITY 3 AT THE VESSEL DOCKS AND ASSOCIATED DREDGING (ACTIVITY 17).
2. SEE DWG. SUM-2 FOR TOTAL IMPACT QUANTITIES.
3. MARINE ENCLOSURE WILL ONLY BE REQUIRED IF DREDGING OCCURS OUTSIDE THE MONTHS OF DECEMBER AND JANUARY.

LEGEND:

- BELOW HTL
- FEDERAL NAVIGATION CHANNEL
- SHEETPILE MARINE ENCLOSURE
- TEMPORARY >24 MONTHS
- PERMANENT

SCALE: SCALE 1" = 40' (0, 20, 40)	DRAWN: T. ADINOLFI CHECKED: V. ROBBINS APPROVED: C. BROWN	SIGNATURE BLOCK:	STATE OF CONNECTICUT DEPARTMENT OF TRANSPORTATION	PROJECT TITLE: WALK BRIDGE REPLACEMENT OVER THE NORWALK RIVER BRIDGE NO. 04288R/MP 41.5	TOWN: NORWALK DRAWING TITLE: SITE 4 FEDERAL (SHEET 12 OF 17)	PROJECT NO.: 0301-0176 DATE: REV 02-23-21 DRAWING NO.: SUM-7



PLAN - SITE 5

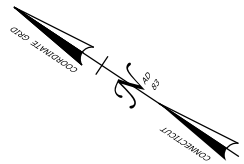
NOTES:

1. WORK ON THIS SHEET DEPICTS CONSTRUCTION ACTIVITY 4 AT THE MARINE STAGING YARD AND ASSOCIATED DREDGING (ACTIVITY 17).
2. SEE DWG. SUM-2 FOR TOTAL IMPACT QUANTITIES.
3. MARINE ENCLOSURE WILL ONLY BE REQUIRED IF DREDGING OCCURS OUTSIDE THE MONTHS OF DECEMBER AND JANUARY.

LEGEND:

- BELOW HTL
- FEDERAL NAVIGATION CHANNEL
- SHEETPILE MARINE ENCLOSURE
- TEMPORARY >24 MONTHS
- PERMANENT

SCALE: SCALE 1" = 40' (0 20 40)	DRAWN: T. ADINOLFI CHECKED: V. ROBBINS APPROVED: C. BROWN	SIGNATURE BLOCK:	STATE OF CONNECTICUT DEPARTMENT OF TRANSPORTATION	PROJECT TITLE: WALK BRIDGE REPLACEMENT OVER THE NORWALK RIVER BRIDGE NO. 04288R/MP 41.5	TOWN: NORWALK DRAWING TITLE: SITE 5 FEDERAL (SHEET 13 OF 17)	PROJECT NO.: 0301-0176 DATE: REV 05-19-21 DRAWING NO.: SUM-8



MOORING BUOY (TYP.)

LIMITS OF MOORING BUOY LOCATION

CHANNEL DREDGING SIDE SLOPE LIMITS

LIMITS OF FEDERAL NAVIGATION CHANNEL

FLOOD

EBB

NORWALK RIVER

EXISTING DOCKS (TYP.)

PLAN - SITE 7

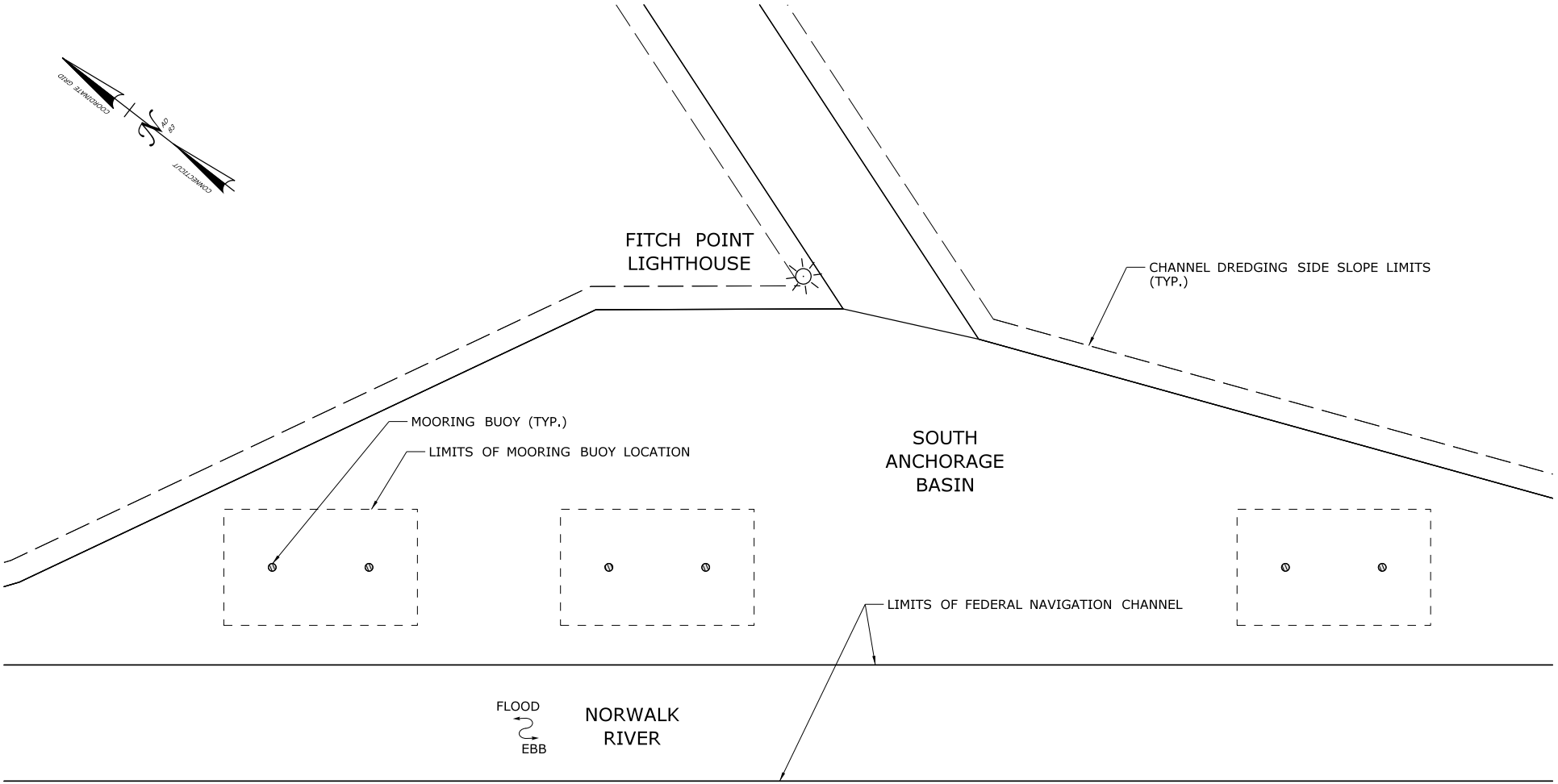
NOTES:

1. SEE DWG. SUM-2 FOR TOTAL IMPACT QUANTITIES.
2. SEE ACTIVITY 11 FOR BARGE MOORING DETAILS.

LEGEND:

- BELOW HTL
- FEDERAL NAVIGATION CHANNEL
- SHEETPILE MARINE ENCLOSURE
- TEMPORARY >24 MONTHS
- PERMANENT

SCALE: SCALE 1" = 100' (0, 50, 100)	DRAWN: T. ADINOLFI CHECKED: V. ROBBINS APPROVED: C. BROWN	SIGNATURE BLOCK:	STATE OF CONNECTICUT DEPARTMENT OF TRANSPORTATION	PROJECT TITLE: WALK BRIDGE REPLACEMENT OVER THE NORWALK RIVER BRIDGE NO. 04288R/MP 41.5	TOWN: NORWALK DRAWING TITLE: SITE 7 FEDERAL (SHEET 14 OF 17)	PROJECT NO.: 0301-0176 DATE: REV 02-23-21 DRAWING NO.: SUM-9



PLAN - SITE 8

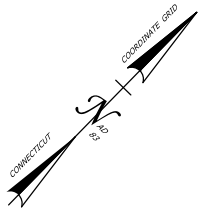
NOTES:

1. SEE DWG. SUM-2 FOR TOTAL IMPACT QUANTITIES.
2. SEE ACTIVITY 11 FOR BARGE MOORING DETAILS.

LEGEND:

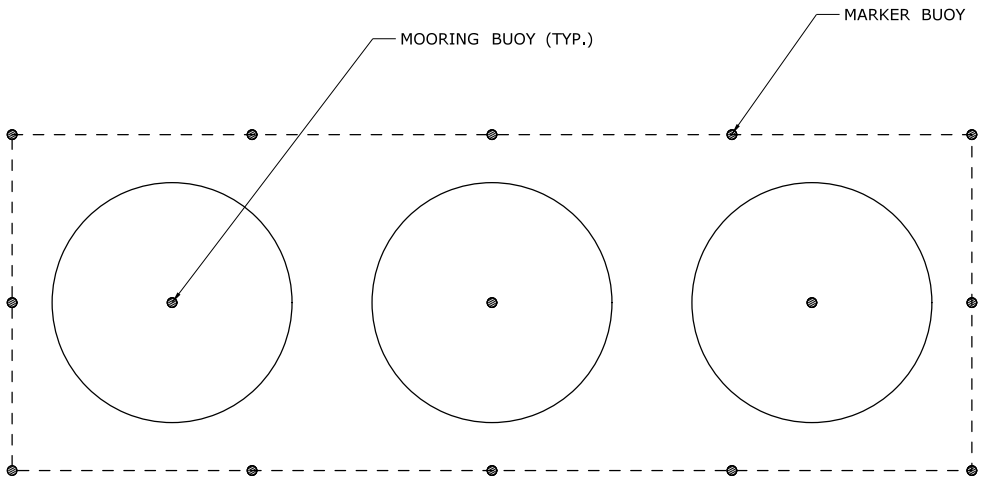
- BELOW HTL
- TEMPORARY >24 MONTHS
- FEDERAL NAVIGATION CHANNEL
- PERMANENT
- SHEETPILE MARINE ENCLOSURE

SCALE: SCALE 1" = 200' (0, 100, 200)	DRAWN: T. ADINOLFI CHECKED: V. ROBBINS APPROVED: C. BROWN	SIGNATURE BLOCK:	STATE OF CONNECTICUT DEPARTMENT OF TRANSPORTATION	PROJECT TITLE: WALK BRIDGE REPLACEMENT OVER THE NORWALK RIVER BRIDGE NO. 04288R/MP 41.5	TOWN: NORWALK DRAWING TITLE: SITE 8 FEDERAL (SHEET 15 OF 17)	PROJECT NO.: 0301-0176 DATE: REV 7-31-20 DRAWING NO.: SUM-10



GREENS
LEDGE
LIGHTHOUSE

LONG ISLAND SOUND



PLAN - SITE 9

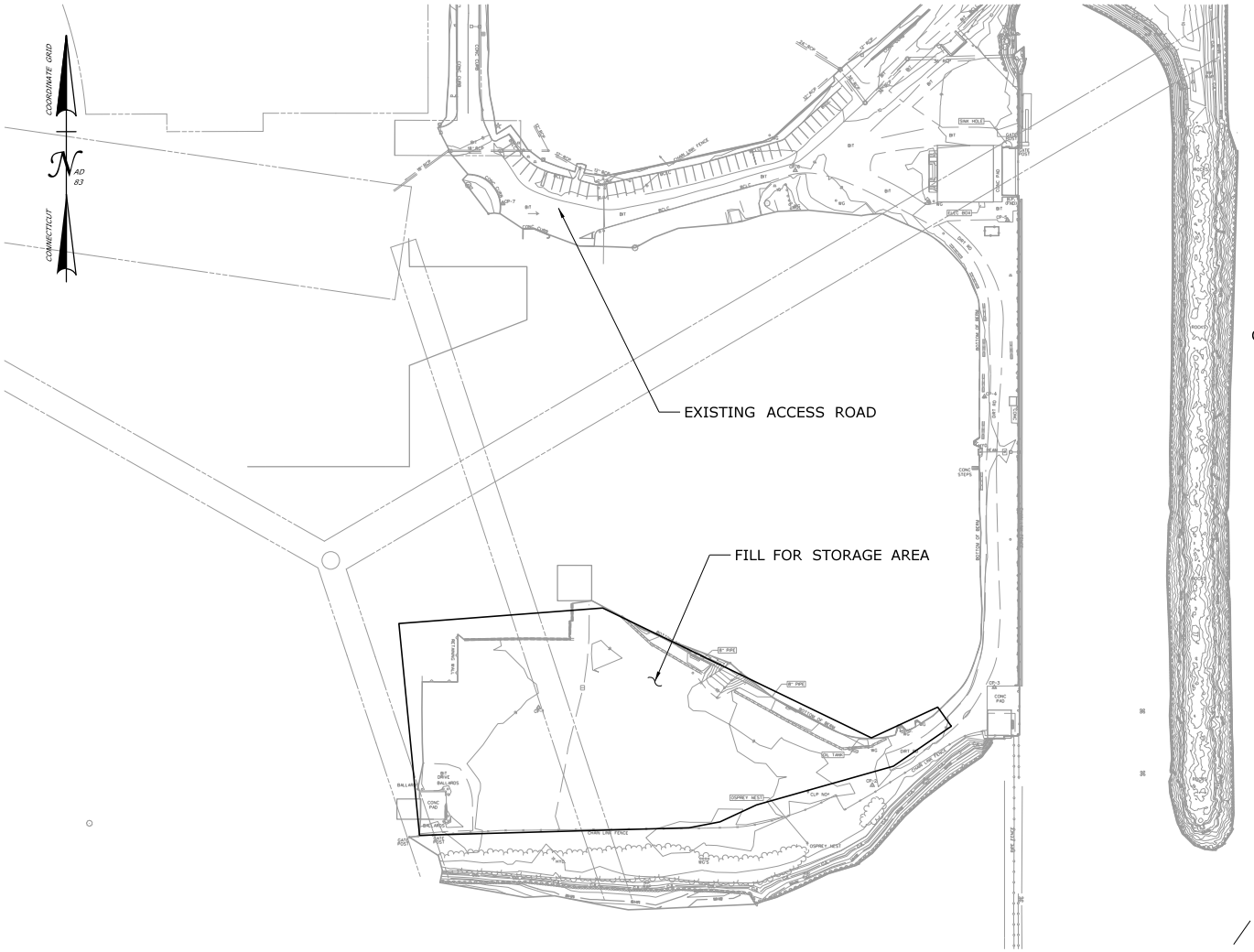
NOTES:

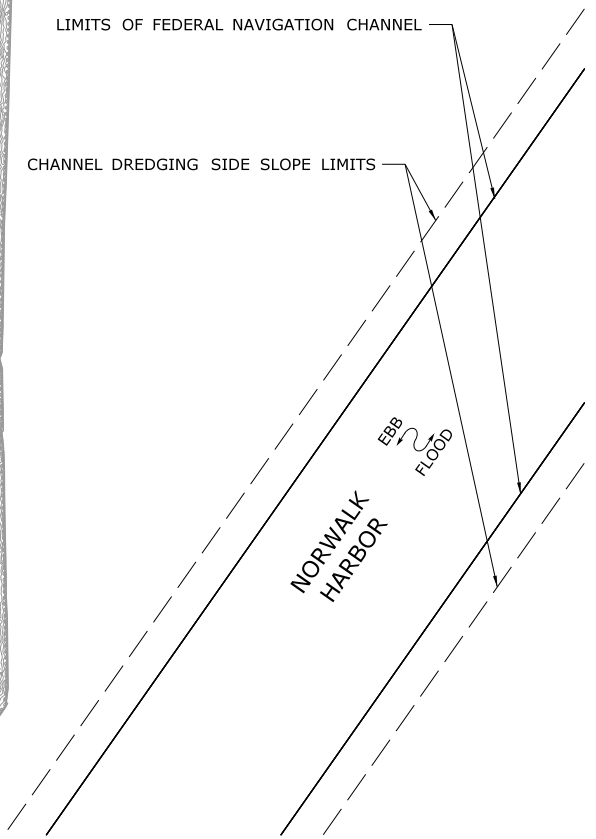
1. SEE DWG. SUM-2 FOR TOTAL IMPACT QUANTITIES.
2. SEE ACTIVITY 11 FOR BARGE MOORING DETAILS.

LEGEND:

- BELOW HTL
- FEDERAL NAVIGATION CHANNEL
- SHEETPILE MARINE ENCLOSURE
- TEMPORARY >24 MONTHS
- PERMANENT

SCALE: SCALE 1" = 400' (0 200 400)	DRAWN: T. ADINOLFI CHECKED: V. ROBBINS APPROVED: C. BROWN	SIGNATURE BLOCK:	STATE OF CONNECTICUT DEPARTMENT OF TRANSPORTATION	PROJECT TITLE: WALK BRIDGE REPLACEMENT OVER THE NORWALK RIVER BRIDGE NO. 04288R/MP 41.5	TOWN: NORWALK DRAWING TITLE: SITE 9 FEDERAL (SHEET 16 OF 17)	PROJECT NO.: 0301-0176 DATE: REV 02-23-21 DRAWING NO.: SUM-11





PLAN - SITE 10

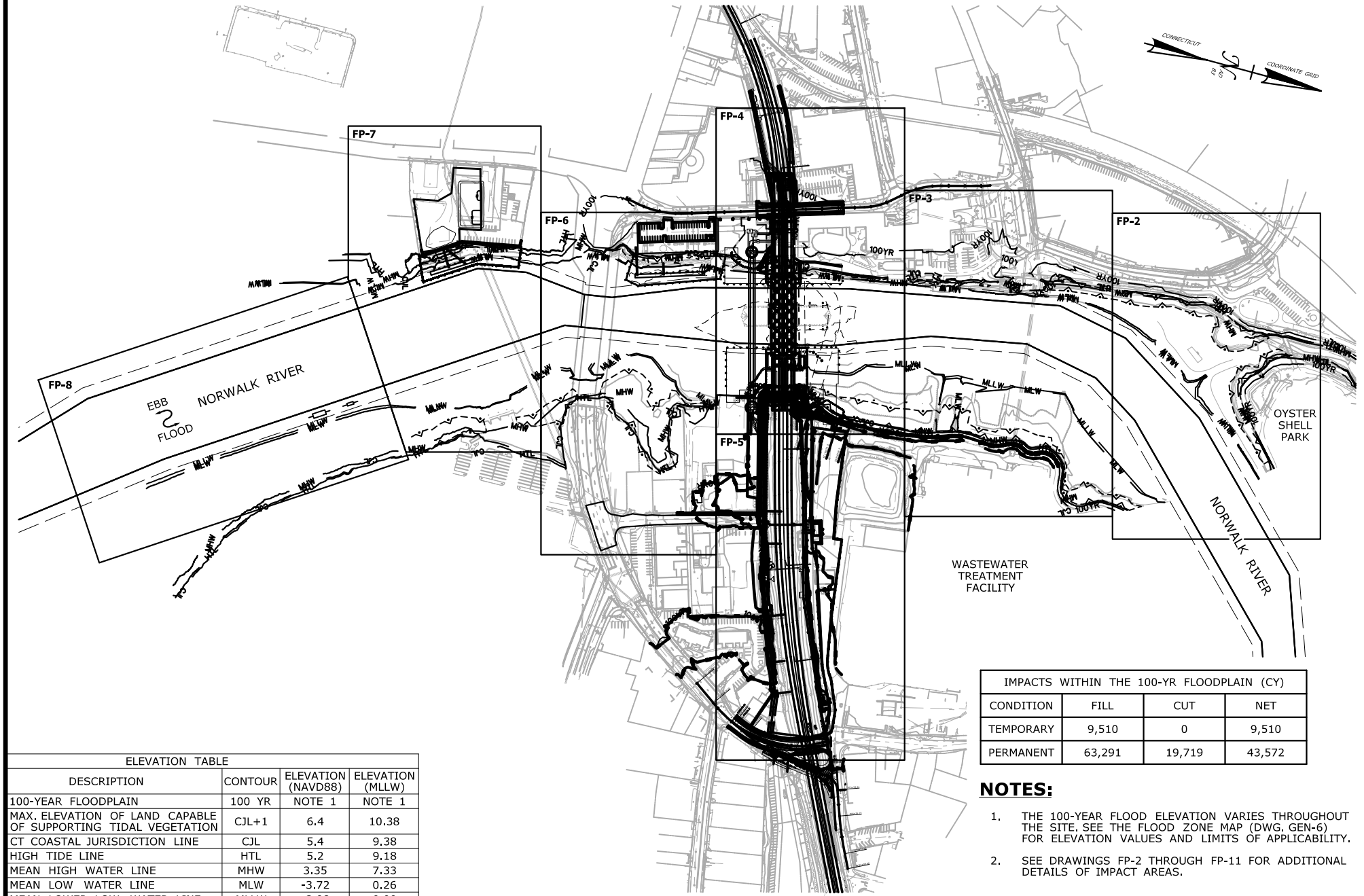
NOTES:

1. SEE DWG. SUM-2 FOR TOTAL IMPACT QUANTITIES.
2. SEE ACTIVITY 19 FOR MANERESA ISLAND DETAILS.
3. NO FILL SHALL BE PLACED BELOW THE HTL.

LEGEND:

- BELOW HTL
- FEDERAL NAVIGATION CHANNEL
- SHEETPILE MARINE ENCLOSURE
- TEMPORARY >24 MONTHS
- PERMANENT

SCALE: SCALE 1" = 200' (0 100 200)	DRAWN: T. ADINOLFI CHECKED: V. ROBBINS APPROVED: C. BROWN	SIGNATURE BLOCK:	STATE OF CONNECTICUT DEPARTMENT OF TRANSPORTATION	PROJECT TITLE: WALK BRIDGE REPLACEMENT OVER THE NORWALK RIVER BRIDGE NO. 04288R/MP 41.5	TOWN: NORWALK DRAWING TITLE: SITE 10 FEDERAL (SHEET 17 OF 17)	PROJECT NO.: 0301-0176 DATE: REV 7-31-20 DRAWING NO.: SUM-12



ELEVATION TABLE			
DESCRIPTION	CONTOUR	ELEVATION (NAVD88)	ELEVATION (MLLW)
100-YEAR FLOODPLAIN	100 YR	NOTE 1	NOTE 1
MAX. ELEVATION OF LAND CAPABLE OF SUPPORTING TIDAL VEGETATION	CJL+1	6.4	10.38
CT COASTAL JURISDICTION LINE	CJL	5.4	9.38
HIGH TIDE LINE	HTL	5.2	9.18
MEAN HIGH WATER LINE	MHW	3.35	7.33
MEAN LOW WATER LINE	MLW	-3.72	0.26
MEAN LOWER LOW WATER LINE	MLLW	-3.98	0.00

IMPACTS WITHIN THE 100-YR FLOODPLAIN (CY)			
CONDITION	FILL	CUT	NET
TEMPORARY	9,510	0	9,510
PERMANENT	63,291	19,719	43,572

NOTES:

1. THE 100-YEAR FLOOD ELEVATION VARIES THROUGHOUT THE SITE. SEE THE FLOOD ZONE MAP (DWG. GEN-6) FOR ELEVATION VALUES AND LIMITS OF APPLICABILITY.
2. SEE DRAWINGS FP-2 THROUGH FP-11 FOR ADDITIONAL DETAILS OF IMPACT AREAS.

SCALE:
SCALE 1" = 400'
0 200 400

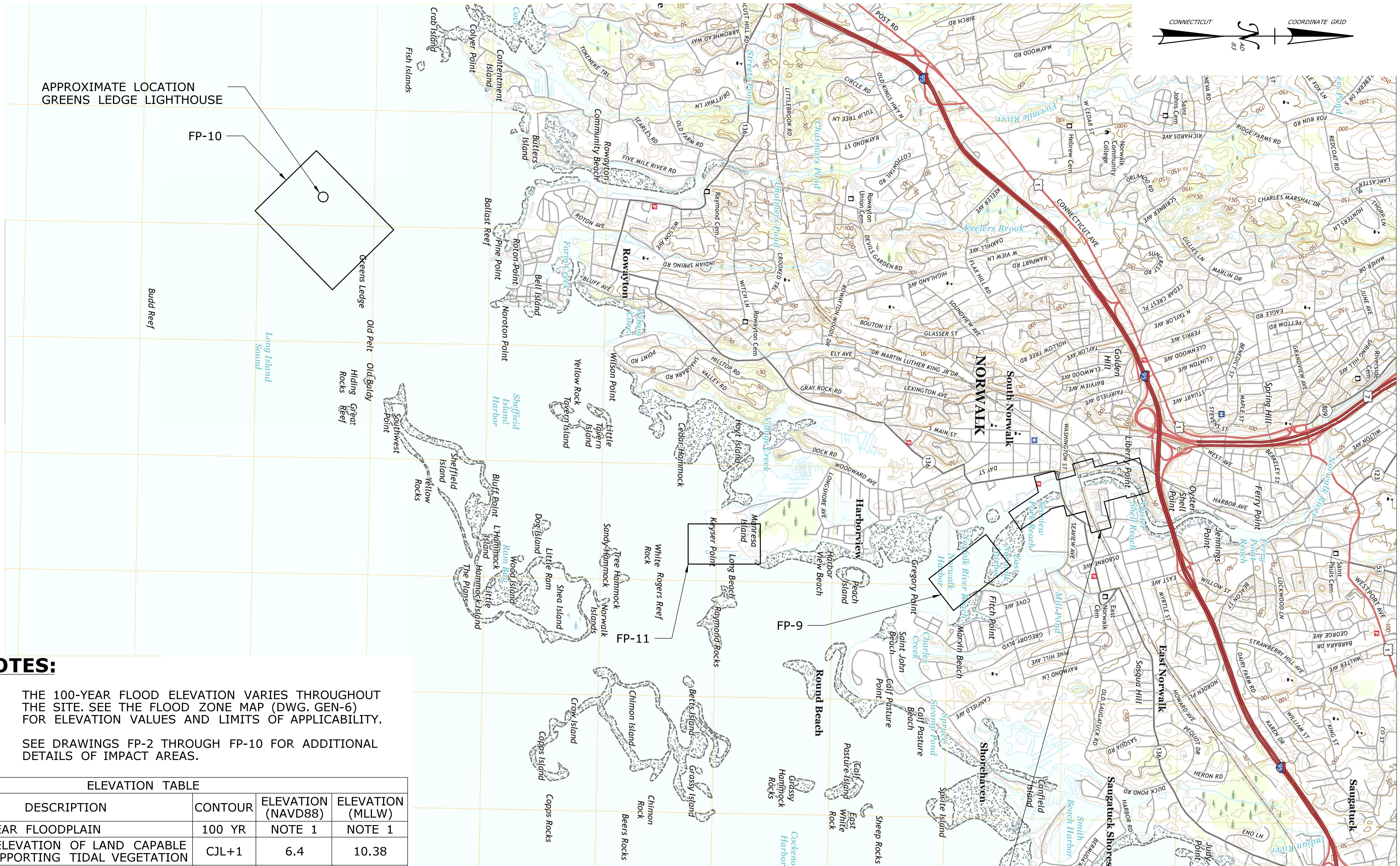
DRAWN: T. ADINOLFI
CHECKED: V. ROBBINS
APPROVED: C. BROWN

SIGNATURE BLOCK:
HNTB
HNTB CORPORATION
55 CAPITAL BLVD., 4TH FLOOR
ROCKY HILL, CT 06067
TEL. (860) 257-7377

STATE OF CONNECTICUT
DEPARTMENT OF TRANSPORTATION

PROJECT TITLE:
WALK BRIDGE REPLACEMENT OVER THE NORWALK RIVER BRIDGE NO. 04288R/MP 41.5

TOWN: **NORWALK**
PROJECT NO.: **0301-0176**
DRAWING TITLE: **KEY PLAN FLOODPLAIN IMPACTS (SHEET 1 OF 12)**
DATE: **REV 05-19-21**
DRAWING NO.: **FP-1**



NOTES:

1. THE 100-YEAR FLOOD ELEVATION VARIES THROUGHOUT THE SITE. SEE THE FLOOD ZONE MAP (DWG. GEN-6) FOR ELEVATION VALUES AND LIMITS OF APPLICABILITY.

2. SEE DRAWINGS FP-2 THROUGH FP-10 FOR ADDITIONAL DETAILS OF IMPACT AREAS.

ELEVATION TABLE

DESCRIPTION	CONTOUR	ELEVATION (NAVD88)	ELEVATION (MLLW)
100-YEAR FLOODPLAIN	100 YR	NOTE 1	NOTE 1
MAX. ELEVATION OF LAND CAPABLE OF SUPPORTING TIDAL VEGETATION	CJL+1	6.4	10.38
CT COASTAL JURISDICTION LINE	CJL	5.4	9.38
HIGH TIDE LINE	HTL	5.2	9.18
MEAN HIGH WATER LINE	MHW	3.35	7.33
MEAN LOW WATER LINE	MLW	-3.72	0.26
MEAN LOWER LOW WATER LINE	MLLW	-3.98	0.00

SCALE:

SCALE 1" = 4000'

0 2000 4000

DRAWN: T. ADINOLFI

CHECKED: V. ROBBINS

APPROVED: C. BROWN

SIGNATURE BLOCK:

STATE OF CONNECTICUT
DEPARTMENT OF TRANSPORTATION

PROJECT TITLE:

WALK BRIDGE REPLACEMENT OVER THE NORWALK RIVER BRIDGE NO. 04288R/MP 41.5

TOWN: **NORWALK**

DRAWING TITLE:

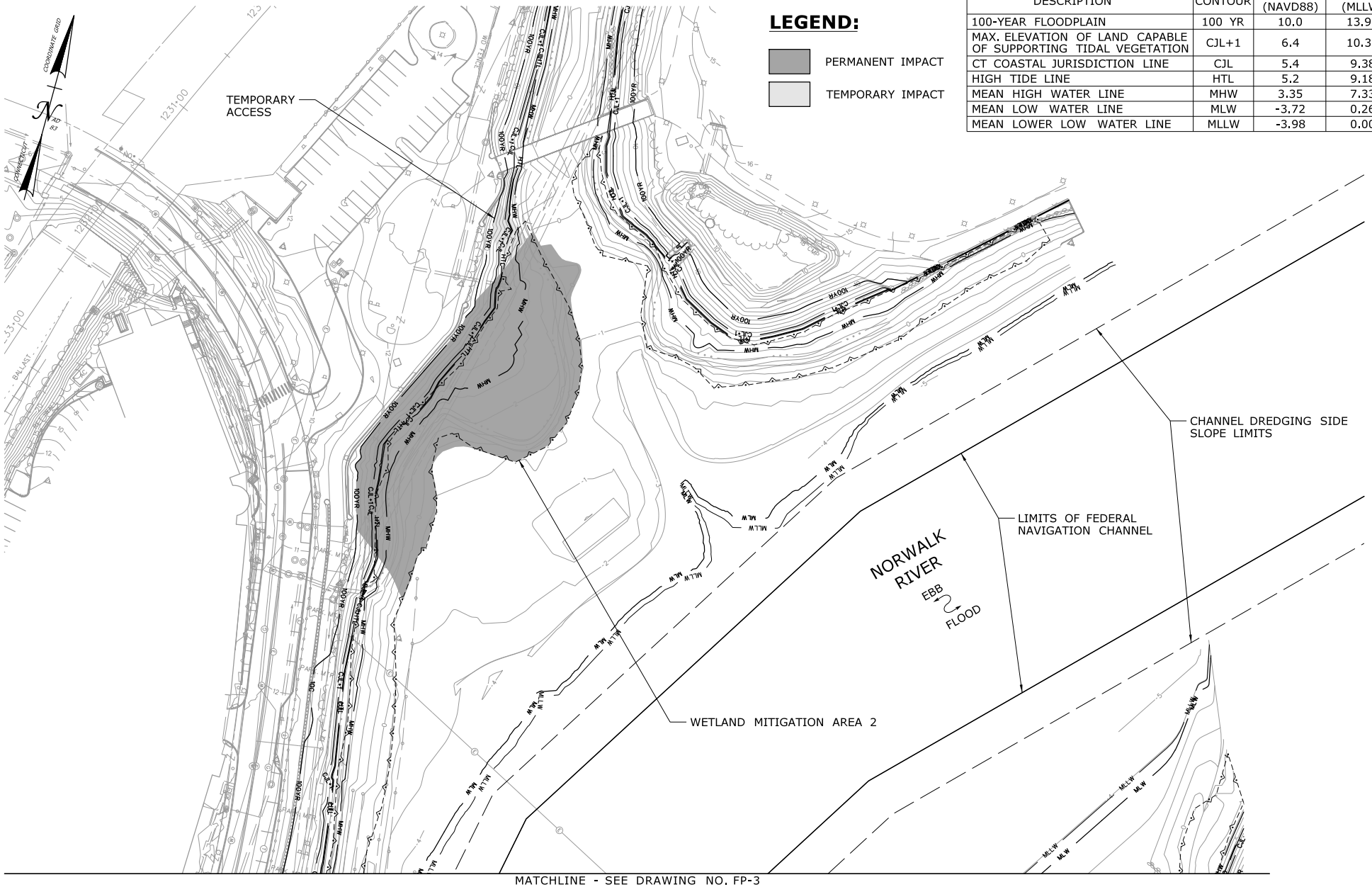
KEY PLAN FLOODPLAIN IMPACTS (SHEET 2 OF 12)

PROJECT NO.: **0301-0176**

DATE: **REV 02-23-21**

DRAWING NO.: **FP-1A**

ELEVATION TABLE			
DESCRIPTION	CONTOUR	ELEVATION (NAVD88)	ELEVATION (MLLW)
100-YEAR FLOODPLAIN	100 YR	10.0	13.98
MAX. ELEVATION OF LAND CAPABLE OF SUPPORTING TIDAL VEGETATION	CJL+1	6.4	10.38
CT COASTAL JURISDICTION LINE	CJL	5.4	9.38
HIGH TIDE LINE	HTL	5.2	9.18
MEAN HIGH WATER LINE	MHW	3.35	7.33
MEAN LOW WATER LINE	MLW	-3.72	0.26
MEAN LOWER LOW WATER LINE	MLLW	-3.98	0.00



SCALE: SCALE 1" = 100'
0 50 100

DRAWN: T. ADINOLFI
CHECKED: V. ROBBINS
APPROVED: C. BROWN

SIGNATURE BLOCK:

STATE OF CONNECTICUT
DEPARTMENT OF TRANSPORTATION

PROJECT TITLE:
WALK BRIDGE REPLACEMENT OVER THE NORWALK RIVER BRIDGE NO. 04288R/MP 41.5

TOWN: **NORWALK**
PROJECT NO.: **0301-0176**
DRAWING TITLE: **PLAN FLOODPLAIN IMPACTS (SHEET 3 OF 12)**
DATE: **REV 7-31-20**
DRAWING NO.: **FP-2**

ELEVATION TABLE			
DESCRIPTION	CONTOUR	ELEVATION (NAVD88)	ELEVATION (MLLW)
100-YEAR FLOODPLAIN	100 YR	10.0	13.98
MAX. ELEVATION OF LAND CAPABLE OF SUPPORTING TIDAL VEGETATION	CJL+1	6.4	10.38
CT COASTAL JURISDICTION LINE	CJL	5.4	9.38
HIGH TIDE LINE	HTL	5.2	9.18
MEAN HIGH WATER LINE	MHW	3.35	7.33
MEAN LOW WATER LINE	MLW	-3.72	0.26
MEAN LOWER LOW WATER LINE	MLLW	-3.98	0.00

LEGEND:

PERMANENT IMPACT

TEMPORARY IMPACT

SCALE: SCALE 1" = 100' (0, 50, 100)

DRAWN: T. ADINOLFI

CHECKED: V. ROBBINS

APPROVED: C. BROWN

SIGNATURE BLOCK:

STATE OF CONNECTICUT
DEPARTMENT OF TRANSPORTATION

PROJECT TITLE:
WALK BRIDGE REPLACEMENT OVER THE NORWALK RIVER BRIDGE NO. 04288R/MP 41.5

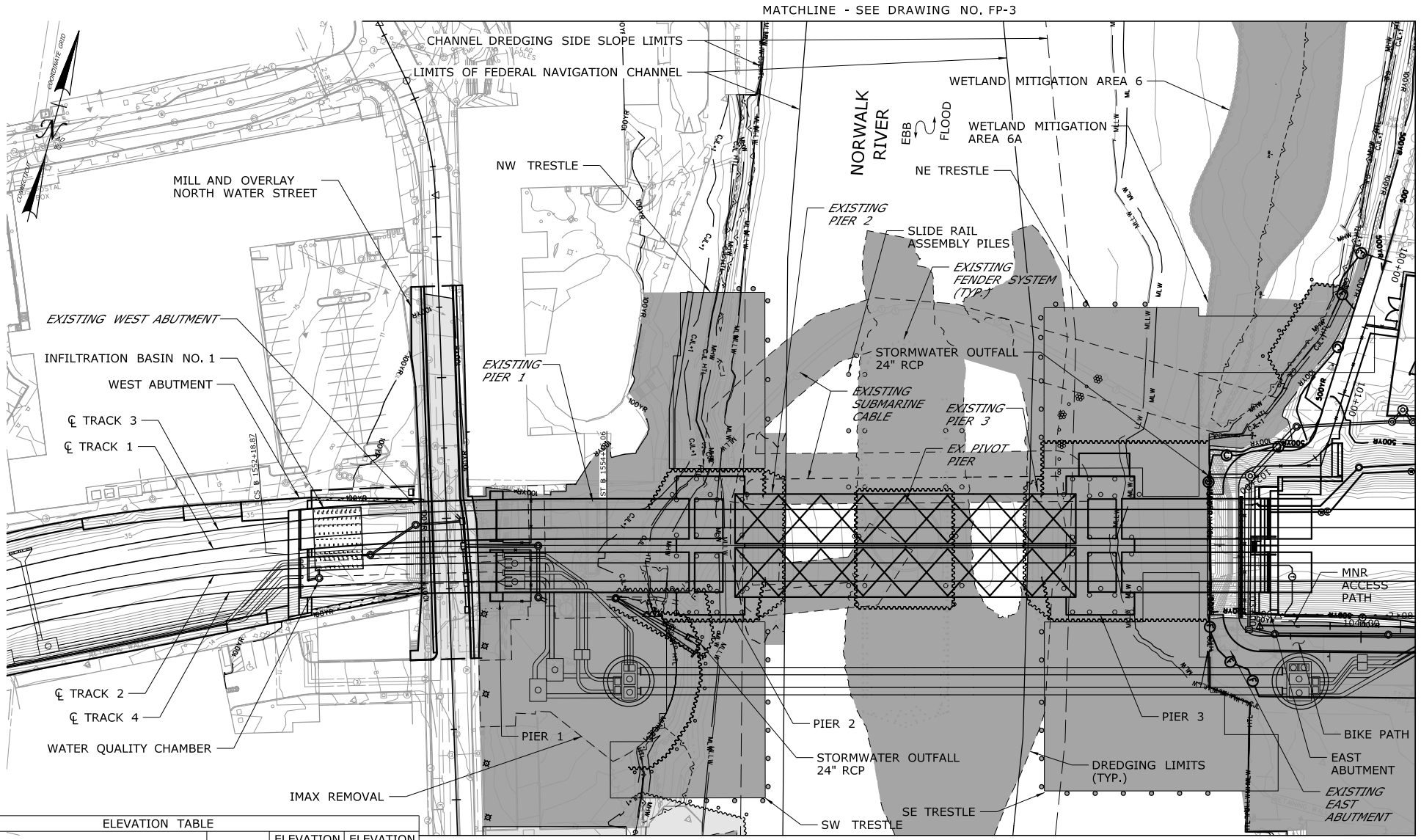
TOWN: **NORWALK**

PROJECT NO.: **0301-0176**

DRAWING TITLE: **PLAN FLOODPLAIN IMPACTS (SHEET 4 OF 12)**

DATE: **REV 7-31-20**

DRAWING NO.: **FP-3**



ELEVATION TABLE			
DESCRIPTION	CONTOUR	ELEVATION (NAVD88)	ELEVATION (MLLW)
100-YEAR FLOODPLAIN	100 YR	10.0/12.0	13.98/15.98
MAX. ELEVATION OF LAND CAPABLE OF SUPPORTING TIDAL VEGETATION	CJL+1	6.4	10.38
CT COASTAL JURISDICTION LINE	CJL	5.4	9.38
HIGH TIDE LINE	HTL	5.2	9.18
MEAN HIGH WATER LINE	MHW	3.35	7.33
MEAN LOW WATER LINE	MLW	-3.72	0.26
MEAN LOWER LOW WATER LINE	MLLW	-3.98	0.00

LEGEND:

PERMANENT IMPACT

TEMPORARY IMPACT

SCALE: SCALE 1" = 100' (0, 50, 100)

DRAWN: T. ADINOLFI

CHECKED: V. ROBBINS

APPROVED: C. BROWN

SIGNATURE BLOCK:

HNTB

HNTB CORPORATION
55 CAPITAL BLVD, 4TH FLOOR
ROCKY HILL, CT 06067
TEL. (860) 257-7377

STATE OF CONNECTICUT
DEPARTMENT OF TRANSPORTATION

PROJECT TITLE:

WALK BRIDGE REPLACEMENT OVER THE NORWALK RIVER BRIDGE NO. 04288R/MP 41.5

TOWN: **NORWALK**

PROJECT NO.: **0301-0176**

DRAWING TITLE: **PLAN FLOODPLAIN IMPACTS (SHEET 5 OF 12)**

DATE: **REV 05-19-21**

DRAWING NO.: **FP-4**

MATCHLINE - SEE DRAWING NO. FP-3

MATCHLINE - SEE DRAWING NO. FP-4

ELEVATION TABLE			
DESCRIPTION	CONTOUR	ELEVATION (NAVD88)	ELEVATION (MLLW)
100-YEAR FLOODPLAIN	100 YR	13.0	16.98
MAX. ELEVATION OF LAND CAPABLE OF SUPPORTING TIDAL VEGETATION	CJL+1	6.4	10.38
CT COASTAL JURISDICTION LINE	CJL	5.4	9.38
HIGH TIDE LINE	HTL	5.2	9.18
MEAN HIGH WATER LINE	MHW	3.35	7.33
MEAN LOW WATER LINE	MLW	-3.72	0.26
MEAN LOWER LOW WATER LINE	MLLW	-3.98	0.00

BITUMINOUS CONCRETE PARKING LOT

BRIDGE GENERATOR

℄ TRACK 3

℄ TRACK 1

℄ TRACK 2

℄ TRACK 4

MNR ACCESS PATH

BIKE PATH

MATCHLINE - SEE DRAWING NO. FP-6

CONSTRUCTION STAGING AND STORAGE AREA

LEGEND:

PERMANENT IMPACT

TEMPORARY IMPACT

SCALE:

SCALE 1" = 100'

0 50 100

DRAWN: T. ADINOLFI

CHECKED: V. ROBBINS

APPROVED: C. BROWN

SIGNATURE BLOCK:

HNTB

HNTB CORPORATION
55 CAPITAL BLVD, 4TH FLOOR
ROCKY HILL, CT 06067
TEL. (860) 257-7377

STATE OF CONNECTICUT
DEPARTMENT OF TRANSPORTATION

PROJECT TITLE:

WALK BRIDGE REPLACEMENT OVER THE NORWALK RIVER BRIDGE NO. 04288R/MP 41.5

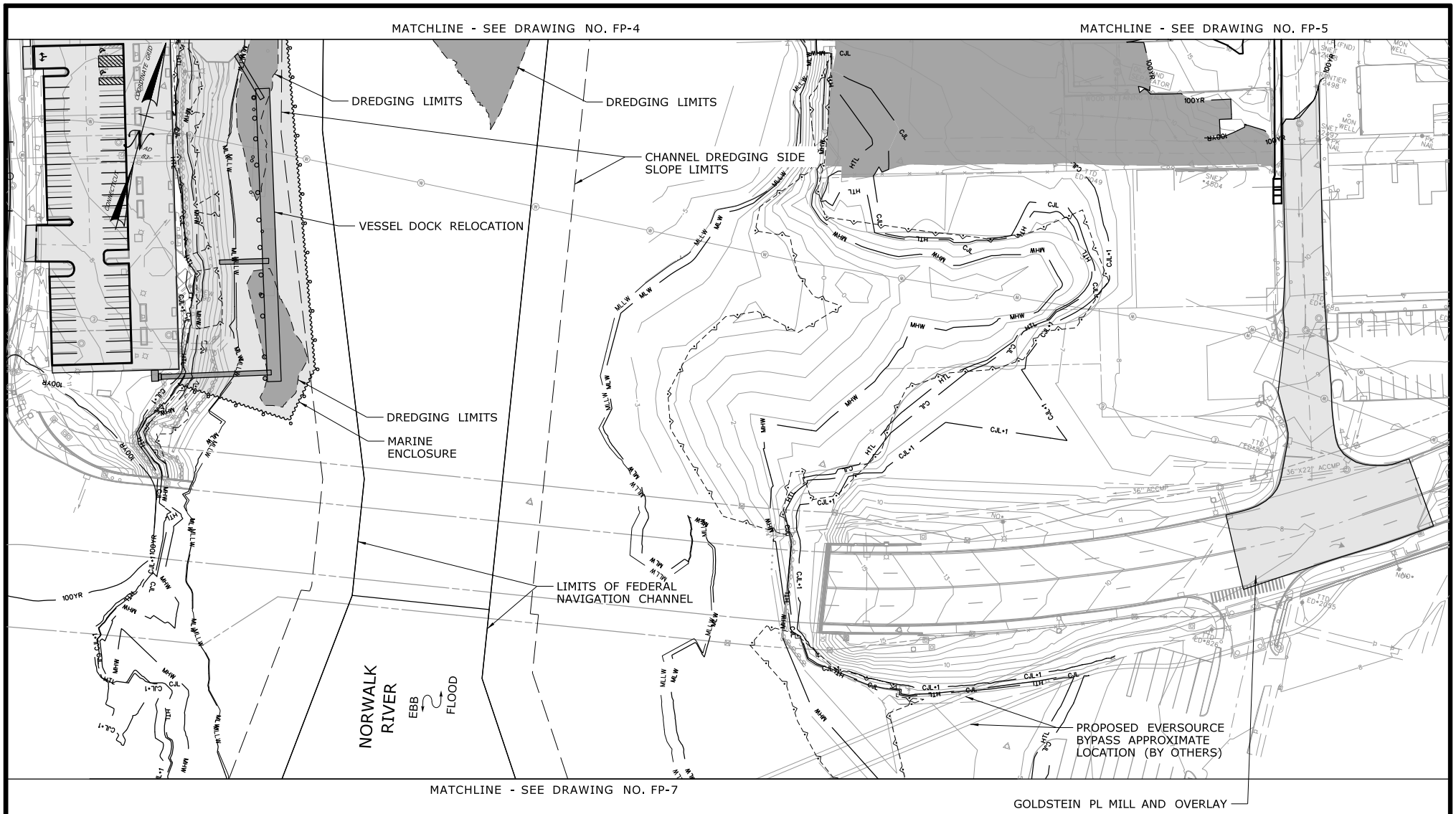
TOWN: **NORWALK**

PROJECT NO.: **0301-0176**

DRAWING TITLE: **PLAN FLOODPLAIN IMPACTS (SHEET 6 OF 12)**

DATE: **REV 05-19-21**

DRAWING NO.: **FP-5**



ELEVATION TABLE			
DESCRIPTION	CONTOUR	ELEVATION (NAVD88)	ELEVATION (MLLW)
100-YEAR FLOODPLAIN	100 YR	12.0/14.0	15.98/17.98
MAX. ELEVATION OF LAND CAPABLE OF SUPPORTING TIDAL VEGETATION	CJL+1	6.4	10.38
CT COASTAL JURISDICTION LINE	CJL	5.4	9.38
HIGH TIDE LINE	HTL	5.2	9.18
MEAN HIGH WATER LINE	MHW	3.35	7.33
MEAN LOW WATER LINE	MLW	-3.72	0.26
MEAN LOWER LOW WATER LINE	MLLW	-3.98	0.00

LEGEND:

PERMANENT IMPACT

TEMPORARY IMPACT

SCALE: SCALE 1" = 100'

0 50 100

DRAWN: T. ADINOLFI

CHECKED: V. ROBBINS

APPROVED: C. BROWN

SIGNATURE BLOCK:

HNTB

HNTB CORPORATION
55 CAPITAL BLVD, 4TH FLOOR
ROCKY HILL, CT 06067
TEL. (860) 257-7377

STATE OF CONNECTICUT
DEPARTMENT OF TRANSPORTATION

PROJECT TITLE:

WALK BRIDGE REPLACEMENT OVER THE NORWALK RIVER BRIDGE NO. 04288R/MP 41.5

TOWN: **NORWALK**

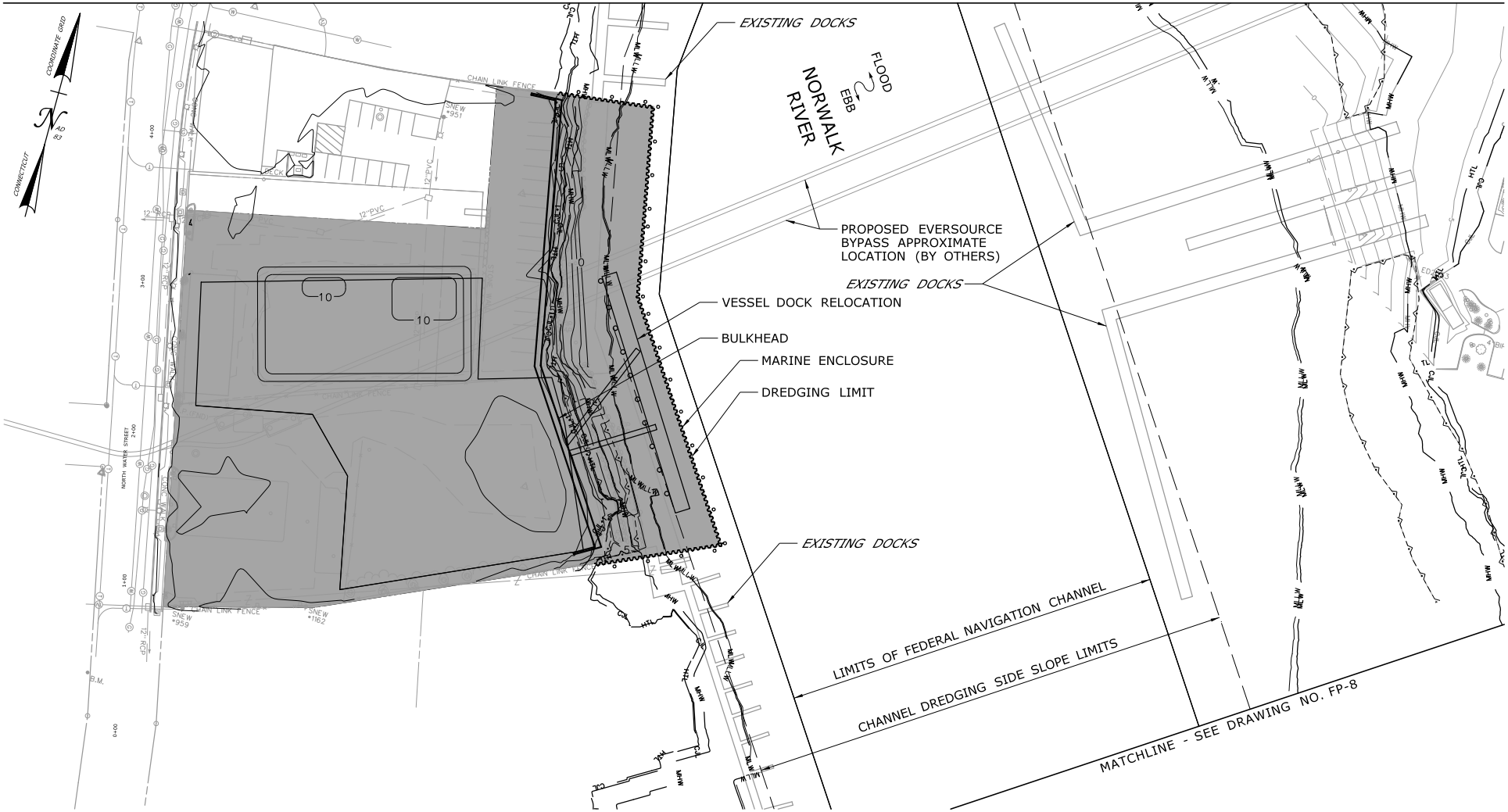
PROJECT NO.: **0301-0176**

DRAWING TITLE: **PLAN FLOODPLAIN IMPACTS (SHEET 7 OF 12)**

DATE: **REV 05-19-21**

DRAWING NO.: **FP-6**

MATCHLINE - SEE DRAWING NO. FP-6



ELEVATION TABLE			
DESCRIPTION	CONTOUR	ELEVATION (NAVD88)	ELEVATION (MLLW)
100-YEAR FLOODPLAIN	100 YR	14.0	17.98
MAX. ELEVATION OF LAND CAPABLE OF SUPPORTING TIDAL VEGETATION	CJL+1	6.4	10.38
CT COASTAL JURISDICTION LINE	CJL	5.4	9.38
HIGH TIDE LINE	HTL	5.2	9.18
MEAN HIGH WATER LINE	MHW	3.35	7.33
MEAN LOW WATER LINE	MLW	-3.72	0.26
MEAN LOWER LOW WATER LINE	MLLW	-3.98	0.00

NOTES:

1. LIMITS OF THIS SHEET ARE ENTIRELY WITHIN THE 100-YEAR FLOODPLAIN.

LEGEND:

- PERMANENT IMPACT
- TEMPORARY IMPACT

SCALE: SCALE 1" = 100' (0, 50, 100)

DRAWN: T. ADINOLFI
CHECKED: V. ROBBINS
APPROVED: C. BROWN

SIGNATURE BLOCK:

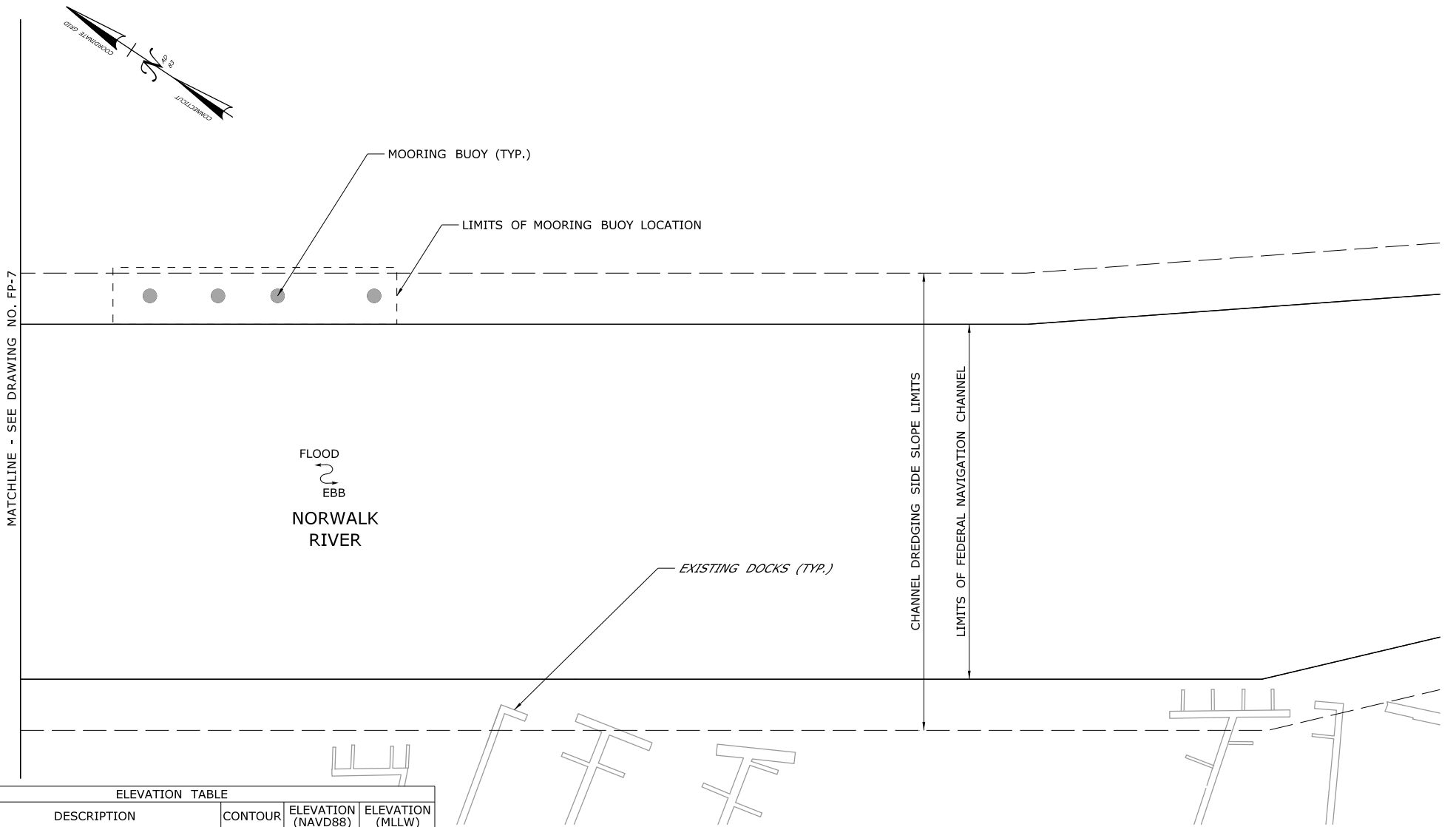
HNTB

HNTB CORPORATION
58 CAPITAL BLVD, 4TH FLOOR
ROCKY HILL, CT 06067
TEL. (860) 257-7377

STATE OF CONNECTICUT
DEPARTMENT OF TRANSPORTATION

PROJECT TITLE:
WALK BRIDGE REPLACEMENT OVER THE NORWALK RIVER BRIDGE NO. 04288R/MP 41.5

TOWN: **NORWALK**
PROJECT NO.: **0301-0176**
DRAWING TITLE: **PLAN FLOODPLAIN IMPACTS (SHEET 8 OF 12)**
DATE: **REV 05-19-21**
DRAWING NO.: **FP-7**



ELEVATION TABLE			
DESCRIPTION	CONTOUR	ELEVATION (NAVD88)	ELEVATION (MLLW)
100-YEAR FLOODPLAIN	100 YR	14.0	17.98
MAX. ELEVATION OF LAND CAPABLE OF SUPPORTING TIDAL VEGETATION	CJL+1	6.4	10.38
CT COASTAL JURISDICTION LINE	CJL	5.4	9.38
HIGH TIDE LINE	HTL	5.2	9.18
MEAN HIGH WATER LINE	MHW	3.35	7.33
MEAN LOW WATER LINE	MLW	-3.72	0.26
MEAN LOWER LOW WATER LINE	MLLW	-3.98	0.00

NOTES:

1. LIMITS OF THIS SHEET ARE ENTIRELY WITHIN THE 100-YEAR FLOODPLAIN.

LEGEND:

PERMANENT IMPACT

TEMPORARY IMPACT

SCALE: SCALE 1" = 100'
0 50 100

DRAWN: T. ADINOLFI
CHECKED: V. ROBBINS
APPROVED: C. BROWN

SIGNATURE BLOCK:

STATE OF CONNECTICUT
DEPARTMENT OF TRANSPORTATION

PROJECT TITLE:
WALK BRIDGE REPLACEMENT OVER THE NORWALK RIVER BRIDGE NO. 04288R/MP 41.5

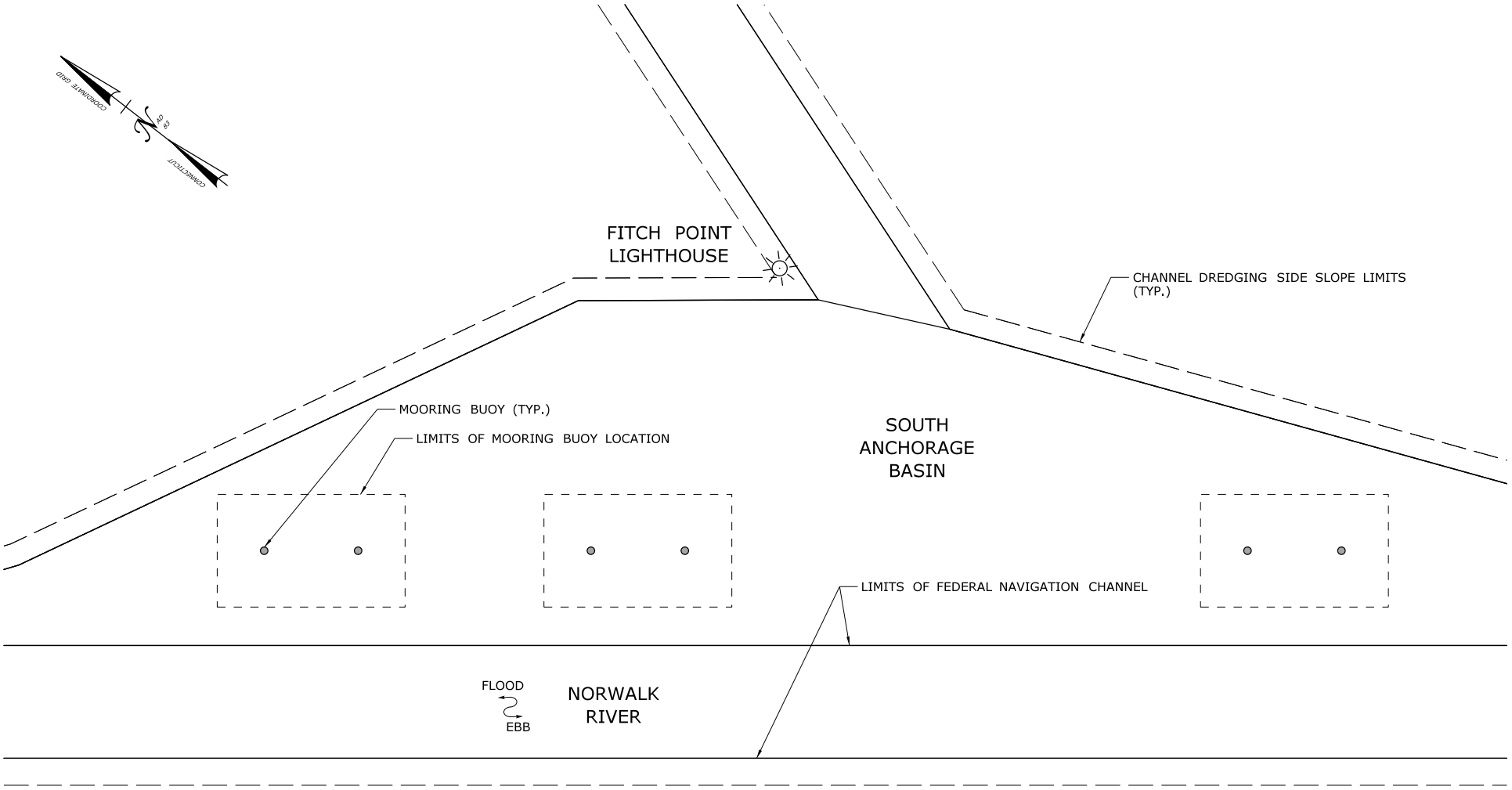
TOWN: **NORWALK**

PROJECT NO.: **0301-0176**

DRAWING TITLE: **PLAN FLOODPLAIN IMPACTS (SHEET 9 OF 12)**

DATE: **REV 02-23-21**

DRAWING NO.: **FP-8**



ELEVATION TABLE			
DESCRIPTION	CONTOUR	ELEVATION (NAVD88)	ELEVATION (MLLW)
100-YEAR FLOODPLAIN	100 YR	14.0	17.98
MAX. ELEVATION OF LAND CAPABLE OF SUPPORTING TIDAL VEGETATION	CJL+1	6.4	10.38
CT COASTAL JURISDICTION LINE	CJL	5.4	9.38
HIGH TIDE LINE	HTL	5.2	9.18
MEAN HIGH WATER LINE	MHW	3.35	7.33
MEAN LOW WATER LINE	MLW	-3.72	0.26
MEAN LOWER LOW WATER LINE	MLLW	-3.98	0.00

NOTES:

1. LIMITS OF THIS SHEET ARE ENTIRELY WITHIN THE 100-YEAR FLOODPLAIN.

LEGEND:

PERMANENT IMPACT

TEMPORARY IMPACT

SCALE: SCALE 1" = 200'
0 100 200

DRAWN: T. ADINOLFI
CHECKED: V. ROBBINS
APPROVED: C. BROWN

SIGNATURE BLOCK:

STATE OF CONNECTICUT
DEPARTMENT OF TRANSPORTATION

PROJECT TITLE:
WALK BRIDGE REPLACEMENT OVER THE NORWALK RIVER BRIDGE NO. 04288R/MP 41.5

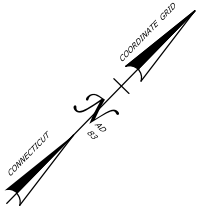
TOWN: **NORWALK**

PROJECT NO.: **0301-0176**

DRAWING TITLE: **PLAN FLOODPLAIN IMPACTS (SHEET 10 OF 12)**

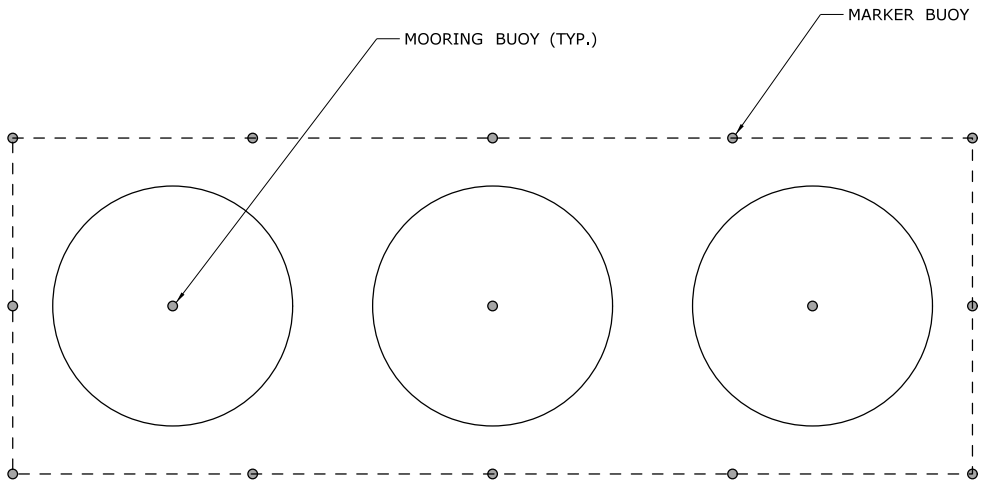
DATE: **REV 7-31-20**

DRAWING NO.: **FP-9**



GREENS
LEDGE
LIGHTHOUSE

LONG ISLAND SOUND



ELEVATION TABLE			
DESCRIPTION	CONTOUR	ELEVATION (NAVD88)	ELEVATION (MLLW)
100-YEAR FLOODPLAIN	100 YR	14.0	17.98
MAX. ELEVATION OF LAND CAPABLE OF SUPPORTING TIDAL VEGETATION	CJL+1	6.4	10.38
CT COASTAL JURISDICTION LINE	CJL	5.4	9.38
HIGH TIDE LINE	HTL	5.2	9.18
MEAN HIGH WATER LINE	MHW	3.35	7.33
MEAN LOW WATER LINE	MLW	-3.72	0.26
MEAN LOWER LOW WATER LINE	MLLW	-3.98	0.00

NOTES:

1. LIMITS OF THIS SHEET ARE ENTIRELY WITHIN THE 100-YEAR FLOODPLAIN.

LEGEND:

PERMANENT IMPACT

TEMPORARY IMPACT

SCALE:
SCALE 1" = 400'
0 200 400

DRAWN: T. ADINOLFI
CHECKED: V. ROBBINS
APPROVED: C. BROWN

SIGNATURE BLOCK:

STATE OF CONNECTICUT
DEPARTMENT OF TRANSPORTATION

PROJECT TITLE:
WALK BRIDGE REPLACEMENT OVER THE NORWALK RIVER BRIDGE NO. 04288R/MP 41.5

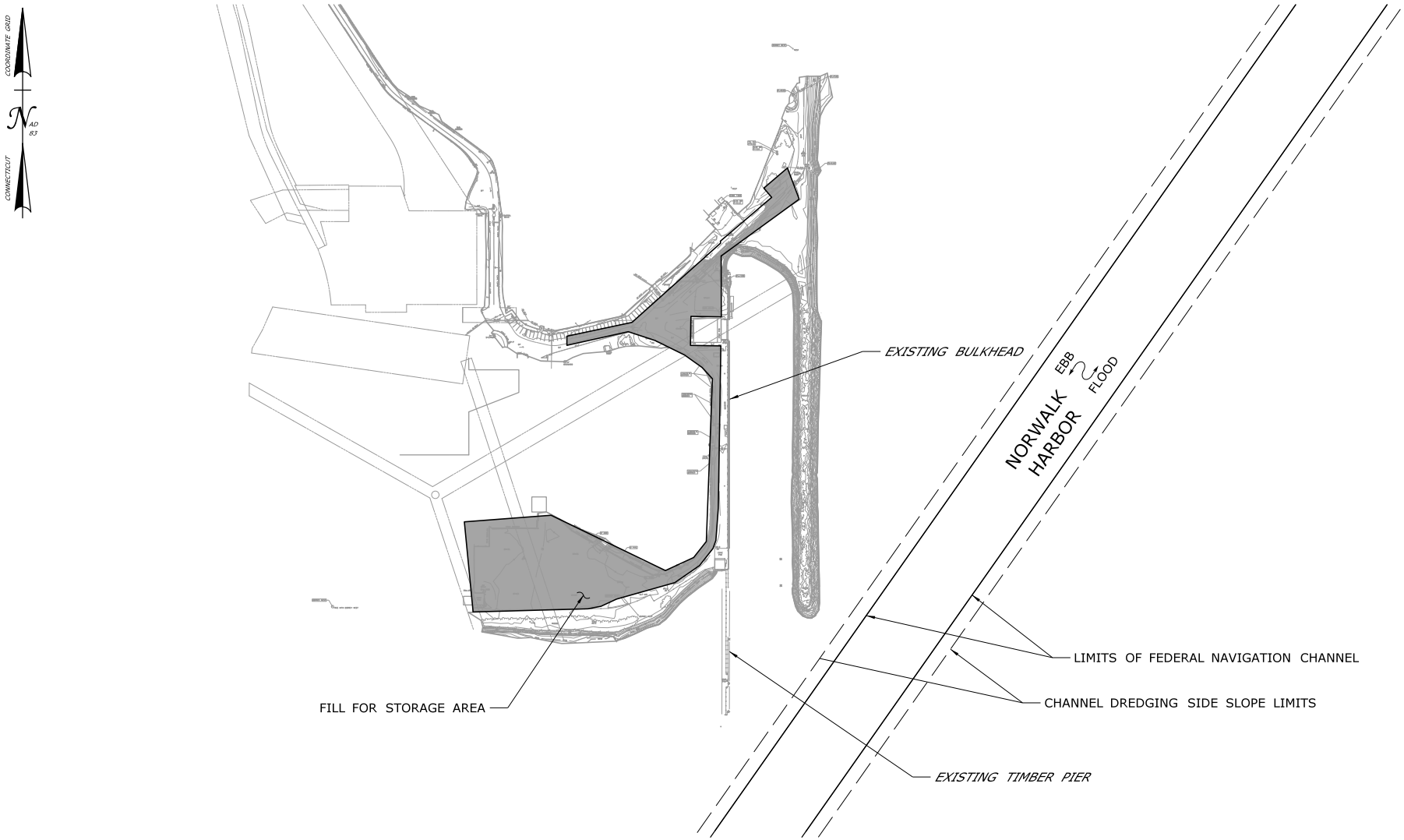
TOWN: **NORWALK**

DRAWING TITLE:
PLAN FLOODPLAIN IMPACTS (SHEET 11 OF 12)

PROJECT NO.: **0301-0176**

DATE: **REV 02-23-21**

DRAWING NO.: **FP-10**



ELEVATION TABLE			
DESCRIPTION	CONTOUR	ELEVATION (NAVD88)	ELEVATION (MLLW)
100-YEAR FLOODPLAIN	100 YR	VARIES	VARIES
MAX. ELEVATION OF LAND CAPABLE OF SUPPORTING TIDAL VEGETATION	CJL+1	6.4	10.38
CT COASTAL JURISDICTION LINE	CJL	5.4	9.38
HIGH TIDE LINE	HTL	5.2	9.18
MEAN HIGH WATER LINE	MHW	3.35	7.33
MEAN LOW WATER LINE	MLW	-3.72	0.26
MEAN LOWER LOW WATER LINE	MLLW	-3.98	0.00

LEGEND:

PERMANENT IMPACT

TEMPORARY IMPACT

SCALE: SCALE 1" = 400'

0 200 400

DRAWN: T. ADINOLFI

CHECKED: V. ROBBINS

APPROVED: C. BROWN

SIGNATURE BLOCK:

STATE OF CONNECTICUT
DEPARTMENT OF TRANSPORTATION

PROJECT TITLE:
WALK BRIDGE REPLACEMENT OVER THE NORWALK RIVER BRIDGE NO. 04288R/MP 41.5

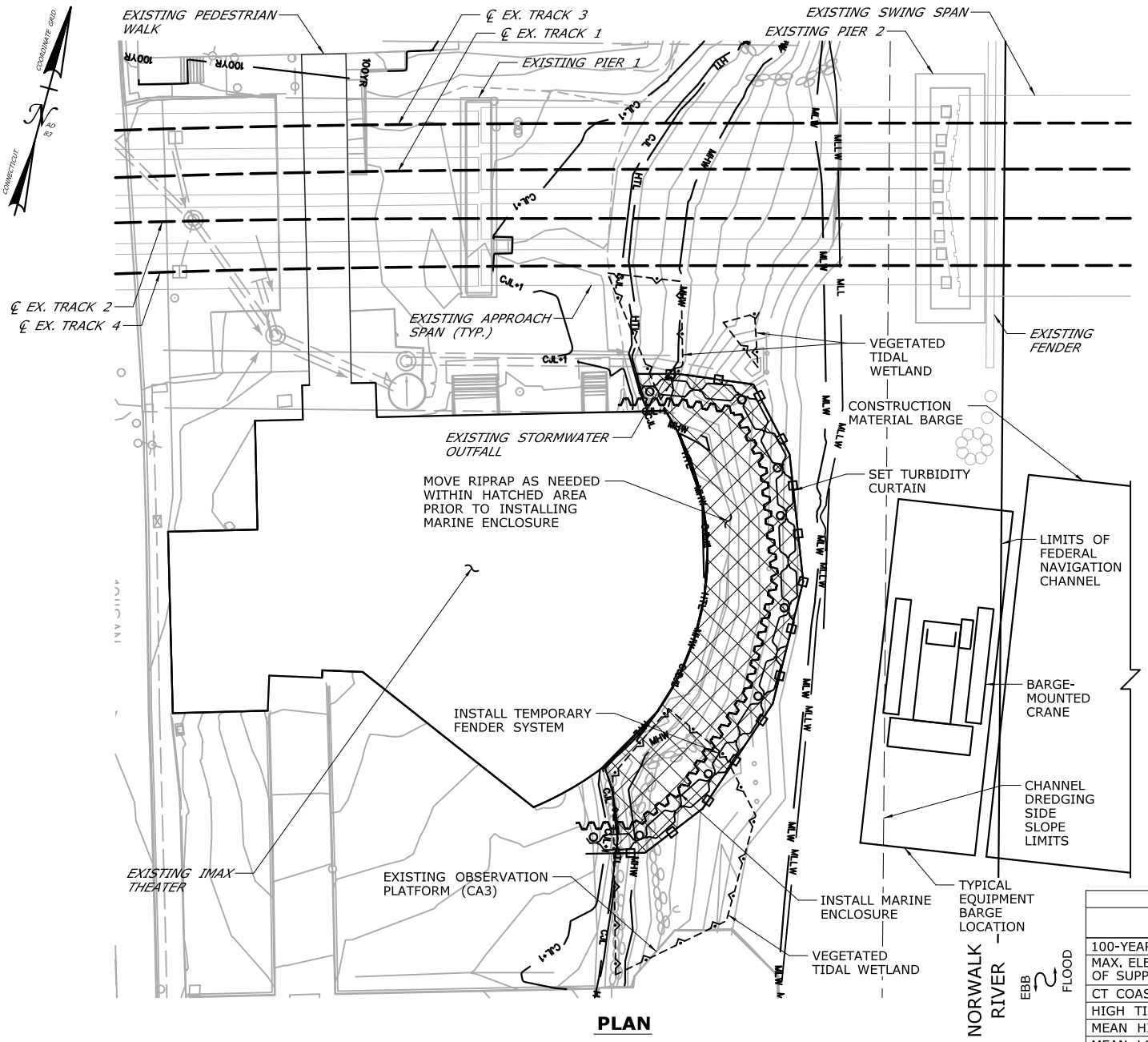
TOWN: **NORWALK**

PROJECT NO.: **0301-0176**

DRAWING TITLE: **PLAN FLOODPLAIN IMPACTS (SHEET 12 OF 12)**

DATE: **REV 7-31-20**

DRAWING NO.: **FP-11**



PLAN

CONSTRUCTION SEQUENCE

THE SHEETS IN THIS SUBSET DESCRIBE THE SEQUENCE OF ACTIVITIES REQUIRED TO REMOVE THE IMAX THEATER WITH REFERENCES TO RELATED ACTIVITIES THROUGHOUT. FOR DETAILS OF RELATED ACTIVITIES, REFER TO THE SUBSETS NOTED IN PARENTHESES. WORK DEPICTED ON THIS SHEET IS IDENTIFIED WITH AN "X" IN THE TABLE.

	WORK DESCRIPTION
X	MOVE BARGES INTO PLACE AND SET TURBIDITY CURTAIN.
X	MOVE RIPRAP AS NEEDED TO INSTALL MARINE ENCLOSURE AND TEMPORARY FENDER SYSTEM.
	REMOVE IMAX THEATER FOUNDATION AND GRADE ENTIRE SITE TO ELEV. 8.0, (11.98 MLLW).
	REMOVE MARINE ENCLOSURE AND TEMPORARY FENDER SYSTEM.
	SET TURBIDITY CURTAIN AND INSTALL TEMPORARY SHEETPILES AND TEMPORARY FENDER SYSTEM AROUND THE STORMWATER OUTFALL.
	EXCAVATE WITHIN MARINE ENCLOSURE, INSTALL NEW MANHOLE AND OUTFALL, DIVERT STORMWATER TO NEW OUTFALL AND REMOVE EXISTING OUTFALL.
	REMOVE TEMPORARY SHEETPILES AND TEMPORARY FENDER SYSTEM.
	FOLLOWING DUCTBANK AND SUBMARINE CABLE CONSTRUCTION (SEE ACTIVITY 2) AND SOUTHWEST TRESTLE ERECTION (SEE ACTIVITY 6), SET CRANE MATS.
	UPON COMPLETION OF THE BRIDGE AND REMOVAL OF THE SOUTHWEST TRESTLE (SEE ACTIVITY 6), REMOVE CRANE MATS, GRADE SITE AND RESTORE SHORELINE.

NOTES:

1. THIS ACTIVITY IS CONTAINED ENTIRELY WITHIN THE 100-YR FLOODPLAIN.
2. VERTICAL DATUM IS NAVD 88. ELEVATIONS RELATIVE TO MLLW TIDAL DATUM ARE SHOWN IN PARENTHESES.
3. MARINE ENCLOSURE WILL BE INSTALLED SO THAT THE TOP WILL BE AT OR ABOVE ELEV. 6.2 (10.18 MLLW), 1 FOOT ABOVE THE HIGH TIDE LINE.
4. ALL FENDER AND SPUD PILES ARE ANTICIPATED TO BE 36" (MAX.) DIAMETER PILES.
5. SEE VESSEL BERTHING PLAN (DWG. GEN-9) FOR TYPICAL BARGE SIZES.
6. PROTECTION MEASURES WILL BE IN PLACE DURING THE DEMOLITION OF THE BUILDING TO PREVENT DEBRIS FROM ENTERING THE WATER.

ELEVATION TABLE

DESCRIPTION	CONTOUR	ELEVATION (NAVD88)	ELEVATION (MLLW)
100-YEAR FLOODPLAIN	100 YR	12.0	15.98
MAX. ELEVATION OF LAND CAPABLE OF SUPPORTING TIDAL VEGETATION	CJL+1	6.4	10.38
CT COASTAL JURISDICTION LINE	CJL	5.4	9.38
HIGH TIDE LINE	HTL	5.2	9.18
MEAN HIGH WATER LINE	MHW	3.35	7.33
MEAN LOW WATER LINE	MLW	-3.72	0.26
MEAN LOWER LOW WATER LINE	MLLW	-3.98	0

SCALE: SCALE IN FEET 0 20 40 SCALE 1"=40'

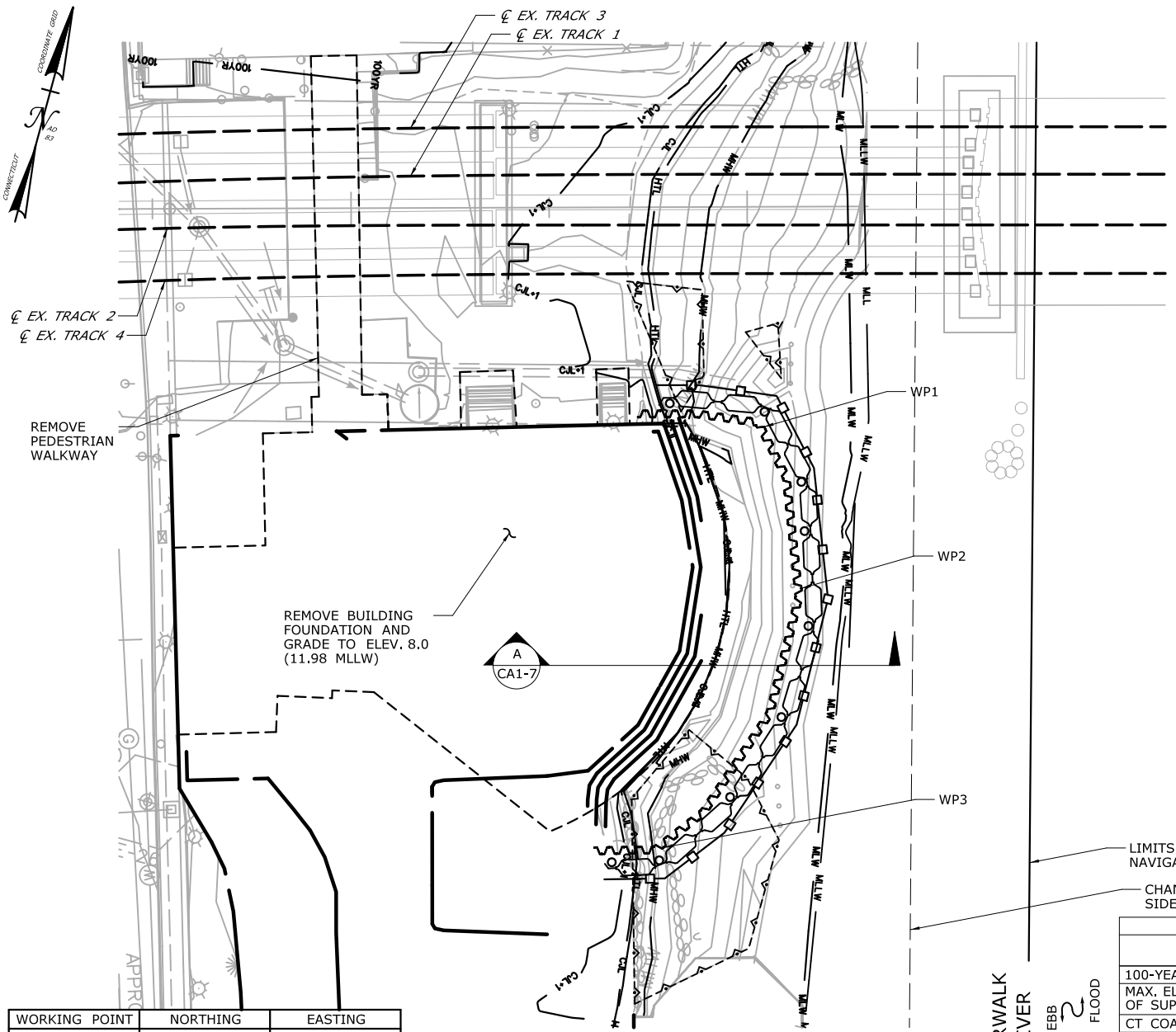
DRAWN: T. ADINOLFI
CHECKED: V. ROBBINS
APPROVED: C. BROWN

SIGNATURE BLOCK:

STATE OF CONNECTICUT
DEPARTMENT OF TRANSPORTATION

PROJECT TITLE:
WALK BRIDGE REPLACEMENT OVER THE NORWALK RIVER BRIDGE NO. 04288R/MP 41.5

TOWN: **NORWALK**
PROJECT NO.: **0301-0176**
DRAWING TITLE: **ACTIVITY 1 IMAX REMOVAL (SHEET 1 OF 7)**
DATE: **REV 02-23-21**
DRAWING NO.: **CA1-1**



PLAN

WORKING POINT	NORTHING	EASTING
WP1	597,940	816,507
WP2	597,903	816,527
WP3	597,831	816,511

CONSTRUCTION SEQUENCE

THE SHEETS IN THIS SUBSET DESCRIBE THE SEQUENCE OF ACTIVITIES REQUIRED TO REMOVE THE IMAX THEATER WITH REFERENCES TO RELATED ACTIVITIES THROUGHOUT. FOR DETAILS OF RELATED ACTIVITIES, REFER TO THE SUBSETS NOTED IN PARENTHESES. WORK DEPICTED ON THIS SHEET IS IDENTIFIED WITH AN "X" IN THE TABLE.

	WORK DESCRIPTION
	MOVE BARGES INTO PLACE AND SET TURBIDITY CURTAIN.
	MOVE RIPRAP AS NEEDED TO INSTALL MARINE ENCLOSURE AND TEMPORARY FENDER SYSTEM.
X	REMOVE IMAX THEATER FOUNDATION AND GRADE ENTIRE SITE TO ELEV. 8.0, (11.98 MLLW).
	REMOVE MARINE ENCLOSURE AND TEMPORARY FENDER SYSTEM.
	SET TURBIDITY CURTAIN AND INSTALL TEMPORARY SHEETPILES AND TEMPORARY FENDER SYSTEM AROUND THE STORMWATER OUTFALL.
	EXCAVATE WITHIN MARINE ENCLOSURE, INSTALL NEW MANHOLE AND OUTFALL, DIVERT STORMWATER TO NEW OUTFALL AND REMOVE EXISTING OUTFALL.
	REMOVE TEMPORARY SHEETPILES AND TEMPORARY FENDER SYSTEM.
	FOLLOWING DUCTBANK AND SUBMARINE CABLE CONSTRUCTION (SEE ACTIVITY 2) AND SOUTHWEST TRESTLE ERECTION (SEE ACTIVITY 6), SET CRANE MATS.
	UPON COMPLETION OF THE BRIDGE AND REMOVAL OF THE SOUTHWEST TRESTLE (SEE ACTIVITY 6), REMOVE CRANE MATS, GRADE SITE AND RESTORE SHORELINE.

NOTES:

1. THIS ACTIVITY IS CONTAINED ENTIRELY WITHIN THE 100-YR FLOODPLAIN.
2. VERTICAL DATUM IS NAVD 88. ELEVATIONS RELATIVE MLLW TIDAL DATUM ARE SHOWN IN PARENTHESES.
3. CONTAINMENT BEST MANAGEMENT PRACTICES FOR AIRBORNE DUST DURING BUILDING REMOVAL WILL BE INCLUDED IN THE PROJECT SPECIAL PROVISIONS.
4. PILES WILL BE REMOVED AS NECESSARY TO INSTALL THE RECEIVING PIT FOR THE DUCTBANK INSTALLATION (CA2)

ELEVATION TABLE			
DESCRIPTION	CONTOUR	ELEVATION (NAVD88)	ELEVATION (MLLW)
100-YEAR FLOODPLAIN	100 YR	12.0	15.98
MAX. ELEVATION OF LAND CAPABLE OF SUPPORTING TIDAL VEGETATION	CJL+1	6.4	10.38
CT COASTAL JURISDICTION LINE	CJL	5.4	9.38
HIGH TIDE LINE	HTL	5.2	9.18
MEAN HIGH WATER LINE	MHW	3.35	7.33
MEAN LOW WATER LINE	MLW	-3.72	0.26
MEAN LOWER LOW WATER LINE	MLLW	-3.98	0

SCALE:
SCALE IN FEET
0 20 40
SCALE 1"=40'

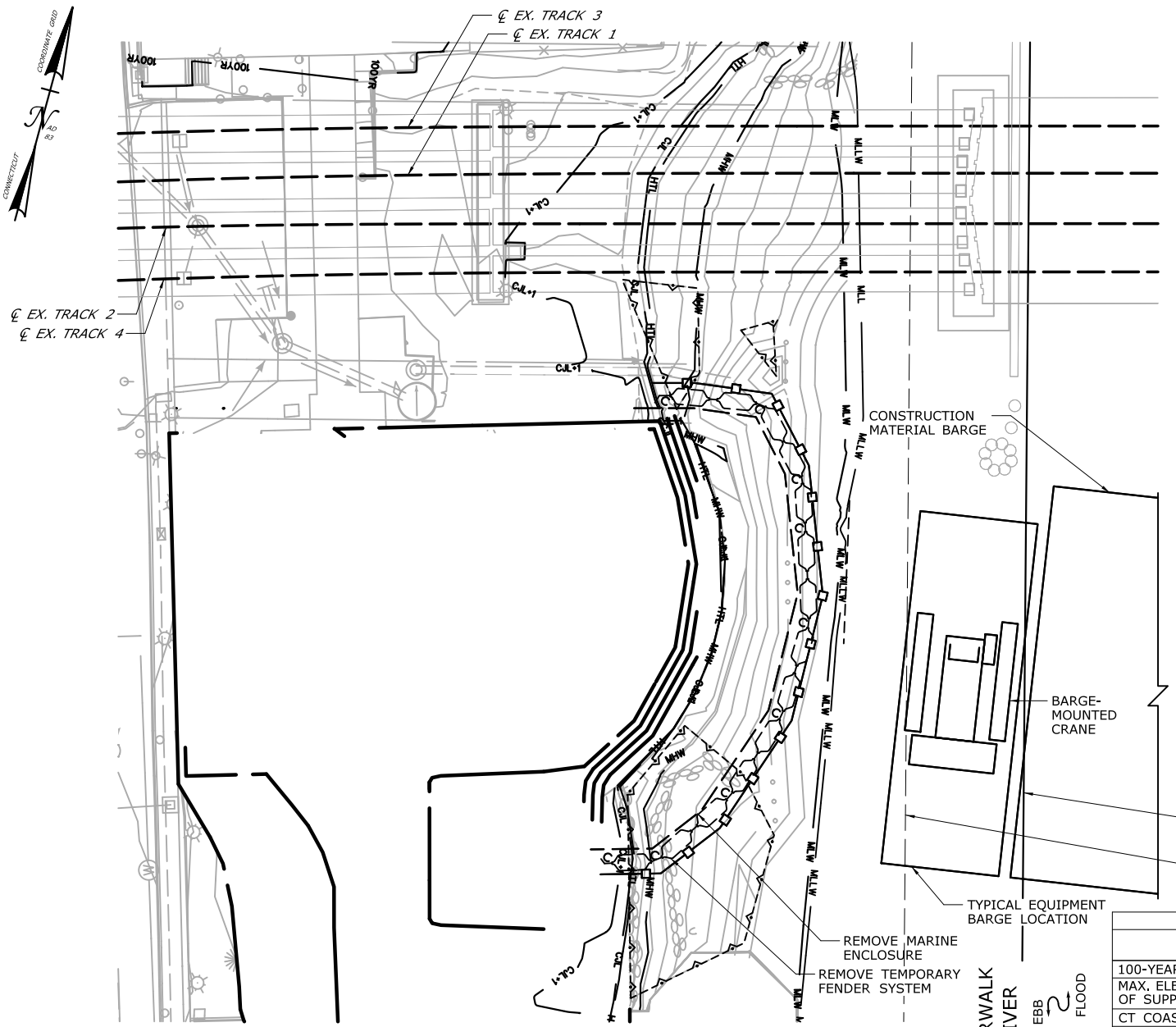
DRAWN: T. ADINOLFI
CHECKED: V. ROBBINS
APPROVED: C. BROWN

SIGNATURE BLOCK:

STATE OF CONNECTICUT
DEPARTMENT OF TRANSPORTATION

PROJECT TITLE:
WALK BRIDGE REPLACEMENT OVER THE NORWALK RIVER BRIDGE NO. 04288R/MP 41.5

TOWN: **NORWALK**
PROJECT NO.: **0301-0176**
DRAWING TITLE: **ACTIVITY 1 IMAX REMOVAL (SHEET 2 OF 7)**
DATE: **REV 02-23-21**
DRAWING NO.: **CA1-2**



PLAN

CONSTRUCTION SEQUENCE

THE SHEETS IN THIS SUBSET DESCRIBE THE SEQUENCE OF ACTIVITIES REQUIRED TO REMOVE THE IMAX THEATER WITH REFERENCES TO RELATED ACTIVITIES THROUGHOUT. FOR DETAILS OF RELATED ACTIVITIES, REFER TO THE SUBSETS NOTED IN PARENTHESES. WORK DEPICTED ON THIS SHEET IS IDENTIFIED WITH AN "X" IN THE TABLE.

	WORK DESCRIPTION
	MOVE BARGES INTO PLACE AND SET TURBIDITY CURTAIN.
	MOVE RIPRAP AS NEEDED TO INSTALL MARINE ENCLOSURE AND TEMPORARY FENDER SYSTEM.
	REMOVE IMAX THEATER FOUNDATION AND GRADE ENTIRE SITE TO ELEV. 8.0 (11.98 MLLW).
X	REMOVE MARINE ENCLOSURE AND TEMPORARY FENDER SYSTEM.
	SET TURBIDITY CURTAIN AND INSTALL TEMPORARY SHEETPILES AND TEMPORARY FENDER SYSTEM AROUND THE STORMWATER OUTFALL.
	EXCAVATE WITHIN MARINE ENCLOSURE, INSTALL NEW MANHOLE AND OUTFALL, DIVERT STORMWATER TO NEW OUTFALL AND REMOVE EXISTING OUTFALL.
	REMOVE TEMPORARY SHEETPILES AND TEMPORARY FENDER SYSTEM.
	FOLLOWING DUCTBANK CONSTRUCTION (SEE ACTIVITY 2) AND SOUTHWEST TRESTLE ERECTION (SEE ACTIVITY 6), SET CRANE MATS.
	UPON COMPLETION OF THE BRIDGE AND REMOVAL OF THE SOUTHWEST TRESTLE (SEE ACTIVITY 6), REMOVE CRANE MATS, GRADE SITE AND RESTORE SHORELINE.

NOTES:

1. THIS ACTIVITY IS CONTAINED ENTIRELY WITHIN THE 100-YR FLOODPLAIN.
2. VERTICAL DATUM IS NAVD 88. ELEVATIONS RELATIVE TO MLLW TIDAL DATUM ARE SHOWN IN PARENTHESES.
3. SEE VESSEL BERTHING PLANS (DWG. GEN-9) FOR TYPICAL BARGE SIZES.
4. ALL FENDER AND SPUD PILES ARE ANTICIPATED TO BE 36" (MAX.) DIAMETER PILES.

ELEVATION TABLE			
DESCRIPTION	CONTOUR	ELEVATION (NAVD88)	ELEVATION (MLLW)
100-YEAR FLOODPLAIN	100 YR	12.0	15.98
MAX. ELEVATION OF LAND CAPABLE OF SUPPORTING TIDAL VEGETATION	CJL+1	6.4	10.38
CT COASTAL JURISDICTION LINE	CJL	5.4	9.38
HIGH TIDE LINE	HTL	5.2	9.18
MEAN HIGH WATER LINE	MHW	3.35	7.33
MEAN LOW WATER LINE	MLW	-3.72	0.26
MEAN LOWER LOW WATER LINE	MLLW	-3.98	0

SCALE:
SCALE IN FEET
0 20 40
SCALE 1"=40'

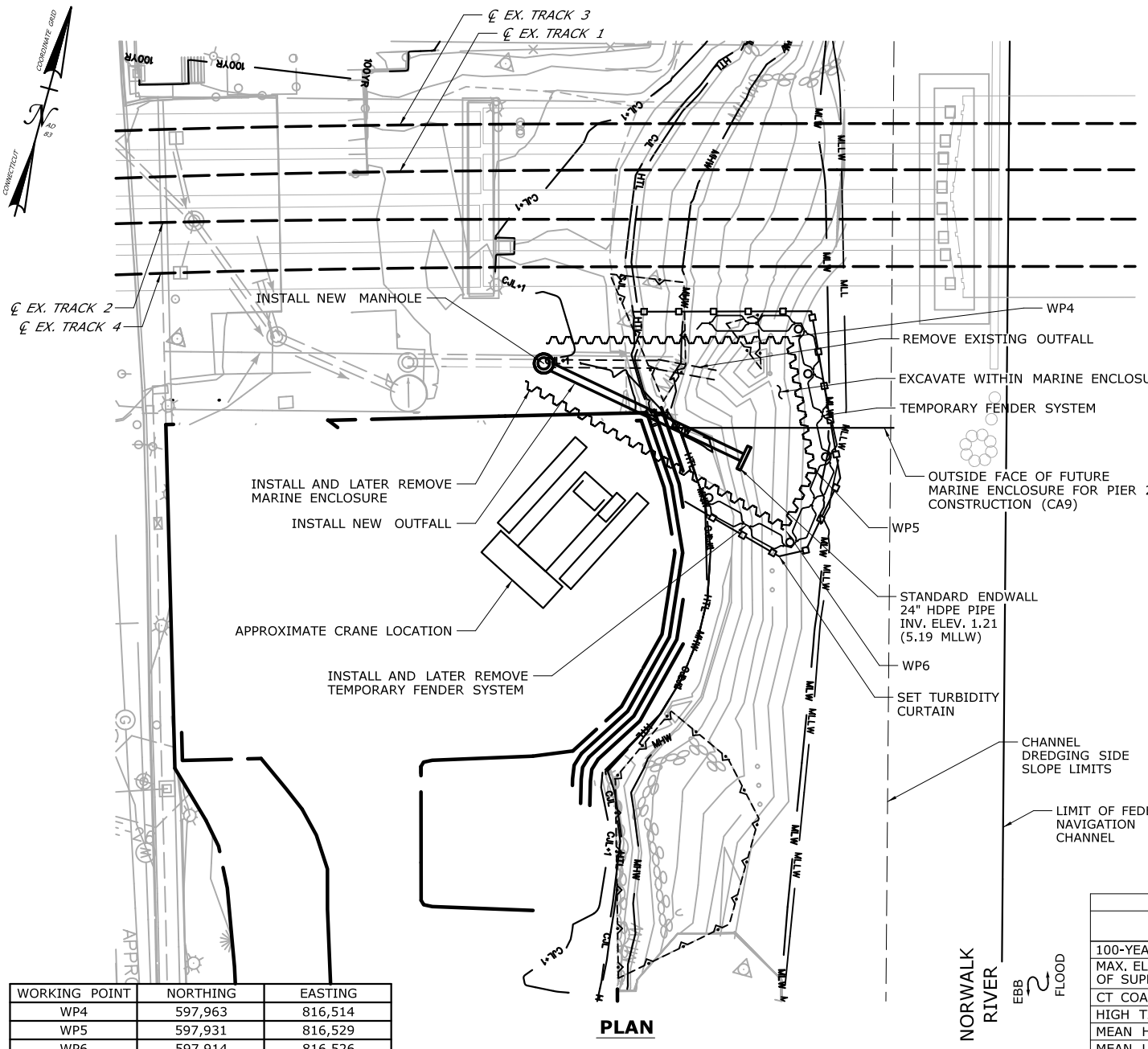
DRAWN: T. ADINOLFI
CHECKED: V. ROBBINS
APPROVED: C. BROWN

SIGNATURE BLOCK:

STATE OF CONNECTICUT
DEPARTMENT OF TRANSPORTATION

PROJECT TITLE:
WALK BRIDGE REPLACEMENT OVER THE NORWALK RIVER BRIDGE NO. 04288R/MP 41.5

TOWN: **NORWALK**
PROJECT NO.: **0301-0176**
DRAWING TITLE: **ACTIVITY 1 IMAX REMOVAL (SHEET 3 OF 7)**
DATE: **REV 02-23-21**
DRAWING NO.: **CA1-3**



PLAN

WORKING POINT	NORTHING	EASTING
WP4	597,963	816,514
WP5	597,931	816,529
WP6	597,914	816,526

CONSTRUCTION SEQUENCE

THE SHEETS IN THIS SUBSET DESCRIBE THE SEQUENCE OF ACTIVITIES REQUIRED TO REMOVE THE IMAX THEATER WITH REFERENCES TO RELATED ACTIVITIES THROUGHOUT. FOR DETAILS OF RELATED ACTIVITIES, REFER TO THE SUBSETS NOTED IN PARENTHESES. WORK DEPICTED ON THIS SHEET IS IDENTIFIED WITH AN "X" IN THE TABLE.

	WORK DESCRIPTION
	MOVE BARGES INTO PLACE AND SET TURBIDITY CURTAIN.
	MOVE RIPRAP AS NEEDED TO INSTALL MARINE ENCLOSURE AND TEMPORARY FENDER SYSTEM.
	REMOVE IMAX THEATER FOUNDATION AND GRADE ENTIRE SITE TO ELEV. 8.0 (11.98 MLLW).
	REMOVE MARINE ENCLOSURE AND TEMPORARY FENDER SYSTEM.
X	SET TURBIDITY CURTAIN AND INSTALL TEMPORARY SHEETPILES AND TEMPORARY FENDER SYSTEM AROUND THE STORMWATER OUTFALL.
X	EXCAVATE WITHIN MARINE ENCLOSURE, INSTALL NEW MANHOLE AND OUTFALL, DIVERT STORMWATER TO NEW OUTFALL AND REMOVE EXISTING OUTFALL.
X	REMOVE TEMPORARY SHEETPILES AND TEMPORARY FENDER SYSTEM.
	FOLLOWING DUCTBANK AND SUBMARINE CABLE CONSTRUCTION (SEE ACTIVITY 2) AND SOUTHWEST TRESTLE ERECTION (SEE ACTIVITY 6), SET CRANE MATS.
	UPON COMPLETION OF THE BRIDGE AND REMOVAL OF THE SOUTHWEST TRESTLE (SEE ACTIVITY 6), REMOVE CRANE MATS, GRADE SITE AND RESTORE SHORELINE.

NOTES:

1. THIS ACTIVITY IS CONTAINED ENTIRELY WITHIN THE 100-YR FLOODPLAIN.
2. VERTICAL DATUM IS NAVD 88. ELEVATIONS RELATIVE TO MLLW TIDAL DATUM ARE SHOWN IN PARENTHESES.
3. MARINE ENCLOSURE WILL BE INSTALLED SO THAT THE TOP WILL BE AT OR ABOVE ELEV. 6.2 (10.18 MLLW), 1 FOOT ABOVE THE HIGH TIDE LINE.
4. EXCAVATED MATERIAL AND DEWATERED WASTEWATERS SHALL BE MANAGED IN ACCORDANCE WITH THE ENVIRONMENTAL SPECIAL PROVISIONS AND CTDEEP REQUIREMENTS.
5. ALL FENDER AND SPUD PILES ARE ANTICIPATED TO BE 36" (MAX.) DIAMETER PILES.

ELEVATION TABLE			
DESCRIPTION	CONTOUR	ELEVATION (NAVD88)	ELEVATION (MLLW)
100-YEAR FLOODPLAIN	100 YR	12.0	15.98
MAX. ELEVATION OF LAND CAPABLE OF SUPPORTING TIDAL VEGETATION	CJL+1	6.4	10.38
CT COASTAL JURISDICTION LINE	CJL	5.4	9.38
HIGH TIDE LINE	HTL	5.2	9.18
MEAN HIGH WATER LINE	MHW	3.35	7.33
MEAN LOW WATER LINE	MLW	-3.72	0.26
MEAN LOWER LOW WATER LINE	MLLW	-3.98	0

SCALE:
SCALE IN FEET
0 20 40
SCALE 1"=40'

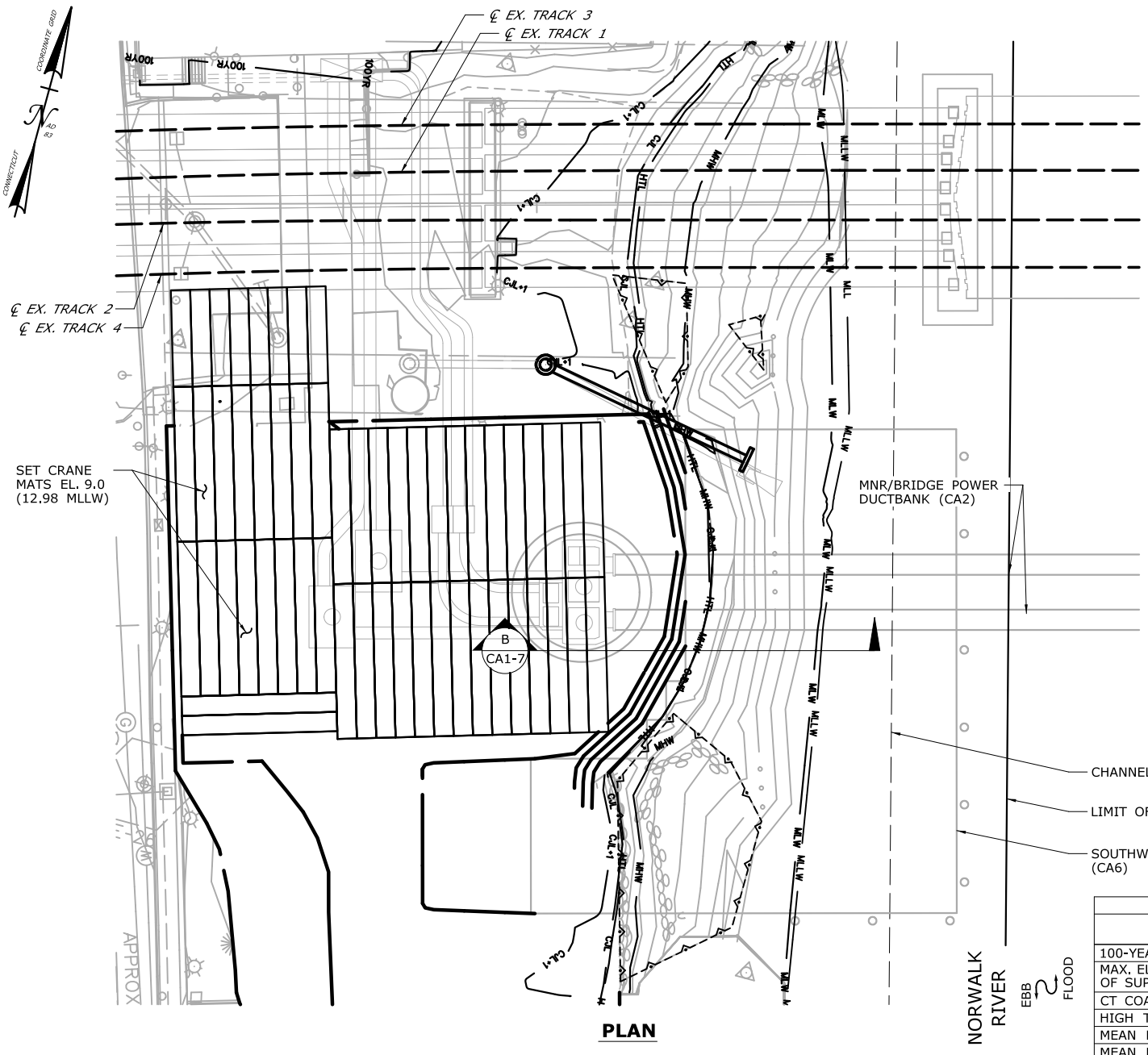
DRAWN: T. ADINOLFI
CHECKED: V. ROBBINS
APPROVED: C. BROWN

SIGNATURE BLOCK:

STATE OF CONNECTICUT
DEPARTMENT OF TRANSPORTATION

PROJECT TITLE:
WALK BRIDGE REPLACEMENT OVER THE NORWALK RIVER BRIDGE NO. 04288R/MP 41.5

TOWN: **NORWALK**
PROJECT NO.: **0301-0176**
DRAWING TITLE: **ACTIVITY 1 IMAX REMOVAL (SHEET 4 OF 7)**
DATE: **REV 02-23-21**
DRAWING NO.: **CA1-4**



PLAN

CONSTRUCTION SEQUENCE

THE SHEETS IN THIS SUBSET DESCRIBE THE SEQUENCE OF ACTIVITIES REQUIRED TO REMOVE THE IMAX THEATER WITH REFERENCES TO RELATED ACTIVITIES THROUGHOUT. FOR DETAILS OF RELATED ACTIVITIES, REFER TO THE SUBSETS NOTED IN PARENTHESES. WORK DEPICTED ON THIS SHEET IS IDENTIFIED WITH AN "X" IN THE TABLE.

	WORK DESCRIPTION
	MOVE BARGES INTO PLACE AND SET TURBIDITY CURTAIN.
	MOVE RIPRAP AS NEEDED TO INSTALL MARINE ENCLOSURE AND TEMPORARY FENDER SYSTEM.
	REMOVE IMAX THEATER FOUNDATION AND GRADE ENTIRE SITE TO ELEV. 8.0 (11.98 MLLW).
	REMOVE MARINE ENCLOSURE AND TEMPORARY FENDER SYSTEM.
	SET TURBIDITY CURTAIN AND INSTALL TEMPORARY SHEETPILES AND TEMPORARY FENDER SYSTEM AROUND THE STORMWATER OUTFALL.
	EXCAVATE WITHIN MARINE ENCLOSURE, INSTALL NEW MANHOLE AND OUTFALL, DIVERT STORMWATER TO NEW OUTFALL AND REMOVE EXISTING OUTFALL.
	REMOVE TEMPORARY SHEETPILES AND TEMPORARY FENDER SYSTEM.
X	FOLLOWING DUCTBANK AND SUBMARINE CABLE CONSTRUCTION (SEE ACTIVITY 2) AND SOUTHWEST TRESTLE ERECTION (SEE ACTIVITY 6), SET CRANE MATS.
	UPON COMPLETION OF THE BRIDGE AND REMOVAL OF THE SOUTHWEST TRESTLE (SEE ACTIVITY 6), REMOVE CRANE MATS, GRADE SITE AND RESTORE SHORELINE.

NOTES:

1. THIS ACTIVITY IS CONTAINED ENTIRELY WITHIN THE 100-YR FLOODPLAIN.
2. VERTICAL DATUM IS NAVD 88. ELEVATIONS RELATIVE TO MLLW TIDAL DATUM ARE SHOWN IN PARENTHESES.

ELEVATION TABLE			
DESCRIPTION	CONTOUR	ELEVATION (NAVD88)	ELEVATION (MLLW)
100-YEAR FLOODPLAIN	100 YR	12.0	15.98
MAX. ELEVATION OF LAND CAPABLE OF SUPPORTING TIDAL VEGETATION	CJL+1	6.4	10.38
CT COASTAL JURISDICTION LINE	CJL	5.4	9.38
HIGH TIDE LINE	HTL	5.2	9.18
MEAN HIGH WATER LINE	MHW	3.35	7.33
MEAN LOW WATER LINE	MLW	-3.72	0.26
MEAN LOWER LOW WATER LINE	MLLW	-3.98	0

SCALE:
SCALE IN FEET
0 20 40
SCALE 1"=40'

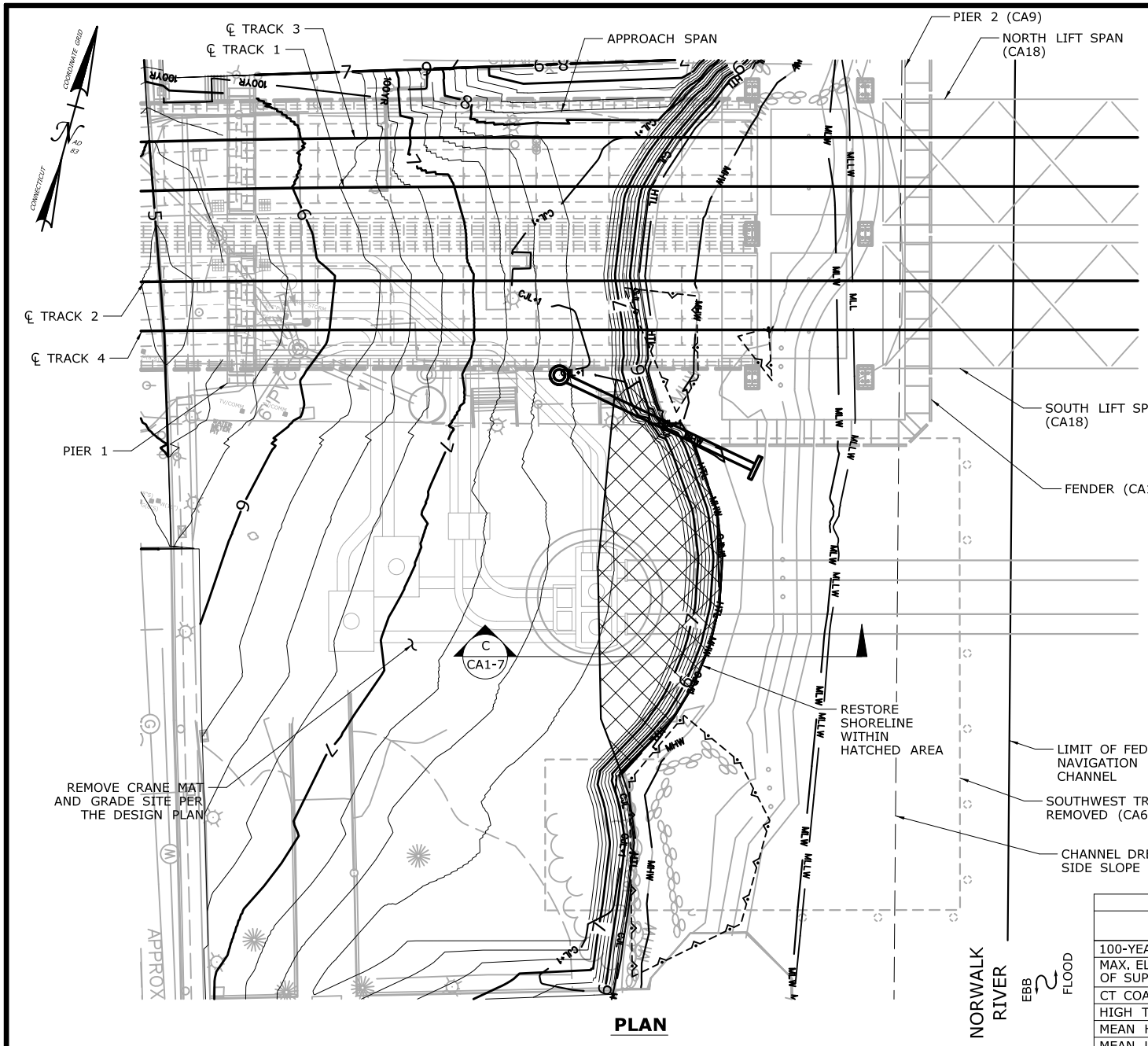
DRAWN: T. ADINOLFI
CHECKED: V. ROBBINS
APPROVED: C. BROWN

SIGNATURE BLOCK:

STATE OF CONNECTICUT
DEPARTMENT OF TRANSPORTATION

PROJECT TITLE:
WALK BRIDGE REPLACEMENT OVER THE NORWALK RIVER BRIDGE NO. 04288R/MP 41.5

TOWN: **NORWALK**
PROJECT NO.: **0301-0176**
DRAWING TITLE: **ACTIVITY 1 IMAX REMOVAL (SHEET 5 OF 7)**
DATE: **REV 05-19-21**
DRAWING NO.: **CA1-5**



PLAN

CONSTRUCTION SEQUENCE

THE SHEETS IN THIS SUBSET DESCRIBE THE SEQUENCE OF ACTIVITIES REQUIRED TO REMOVE THE IMAX THEATER WITH REFERENCES TO RELATED ACTIVITIES THROUGHOUT. FOR DETAILS OF RELATED ACTIVITIES, REFER TO THE SUBSETS NOTED IN PARENTHESES. WORK DEPICTED ON THIS SHEET IS IDENTIFIED WITH AN "X" IN THE TABLE.

	WORK DESCRIPTION
	MOVE BARGES INTO PLACE AND SET TURBIDITY CURTAIN.
	MOVE RIPRAP AS NEEDED TO INSTALL MARINE ENCLOSURE AND TEMPORARY FENDER SYSTEM.
	REMOVE IMAX THEATER FOUNDATION AND GRADE ENTIRE SITE TO ELEV. 8.0 (11.98 MLLW).
	REMOVE MARINE ENCLOSURE AND TEMPORARY FENDER SYSTEM.
	SET TURBIDITY CURTAIN AND INSTALL TEMPORARY SHEETPILES AND TEMPORARY FENDER SYSTEM AROUND THE STORMWATER OUTFALL.
	EXCAVATE WITHIN MARINE ENCLOSURE, INSTALL NEW MANHOLE AND OUTFALL, DIVERT STORMWATER TO NEW OUTFALL AND REMOVE EXISTING OUTFALL.
	REMOVE TEMPORARY SHEETPILES AND TEMPORARY FENDER SYSTEM.
	FOLLOWING DUCTBANK AND SUBMARINE CABLE CONSTRUCTION (SEE ACTIVITY 2) AND SOUTHWEST TRESTLE ERECTION (SEE ACTIVITY 6), SET CRANE MATS.
X	UPON COMPLETION OF THE BRIDGE AND REMOVAL OF THE SOUTHWEST TRESTLE (SEE ACTIVITY 6), REMOVE CRANE MATS, GRADE SITE AND RESTORE SHORELINE.

NOTES:

1. THIS ACTIVITY IS CONTAINED ENTIRELY WITHIN THE 100-YR FLOODPLAIN.
2. VERTICAL DATUM IS NAVD 88. ELEVATIONS RELATIVE TO MLLW TIDAL DATUM ARE SHOWN IN PARENTHESES.
3. SHORELINE RESTORATION TO MATCH EXISTING MATERIAL FOR EROSION CONTROL TO THE CJL ELEVATION. AREAS ABOVE THE CJL ELEVATION TO BE RESTORED WILL BE TREATED WITH APPROPRIATE FERTILIZER, SEED AND MULCH IN ACCORDANCE WITH CTDEEP GUIDELINES FOR SOIL EROSION AND SEDIMENT CONTROL.

ELEVATION TABLE

DESCRIPTION	CONTOUR	ELEVATION (NAVD88)	ELEVATION (MLLW)
100-YEAR FLOODPLAIN	100 YR	12.0	15.98
MAX. ELEVATION OF LAND CAPABLE OF SUPPORTING TIDAL VEGETATION	CJL+1	6.4	10.38
CT COASTAL JURISDICTION LINE	CJL	5.4	9.38
HIGH TIDE LINE	HTL	5.2	9.18
MEAN HIGH WATER LINE	MHW	3.35	7.33
MEAN LOW WATER LINE	MLW	-3.72	0.26
MEAN LOWER LOW WATER LINE	MLLW	-3.98	0

SCALE:
SCALE IN FEET
0 20 40
SCALE 1"=40'

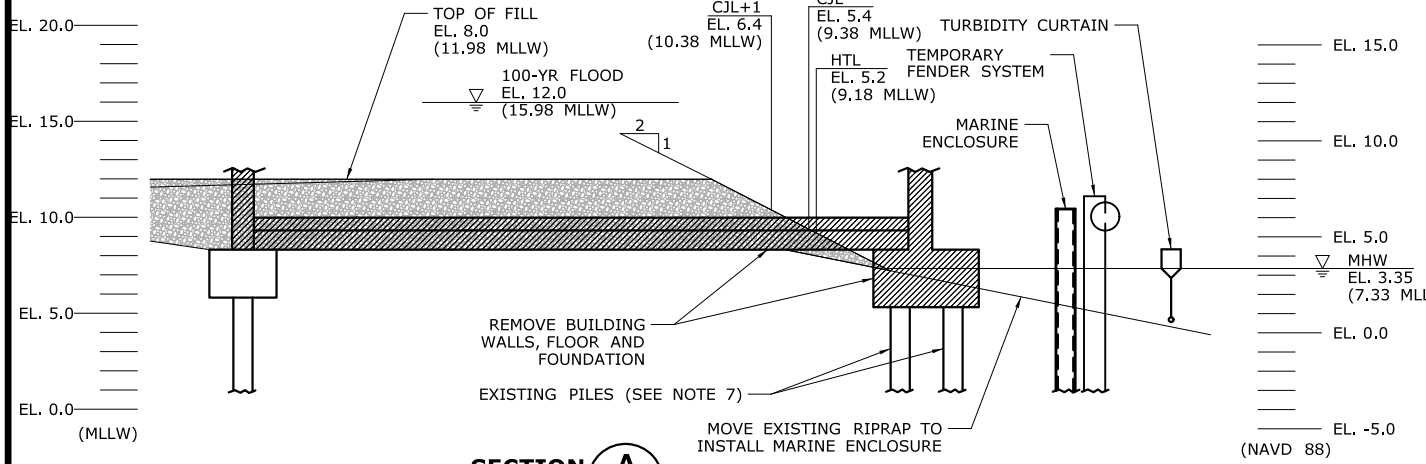
DRAWN: T. ADINOLFI
CHECKED: V. ROBBINS
APPROVED: C. BROWN

SIGNATURE BLOCK:

STATE OF CONNECTICUT
DEPARTMENT OF TRANSPORTATION

PROJECT TITLE:
WALK BRIDGE REPLACEMENT OVER THE NORWALK RIVER BRIDGE NO. 04288R/MP 41.5

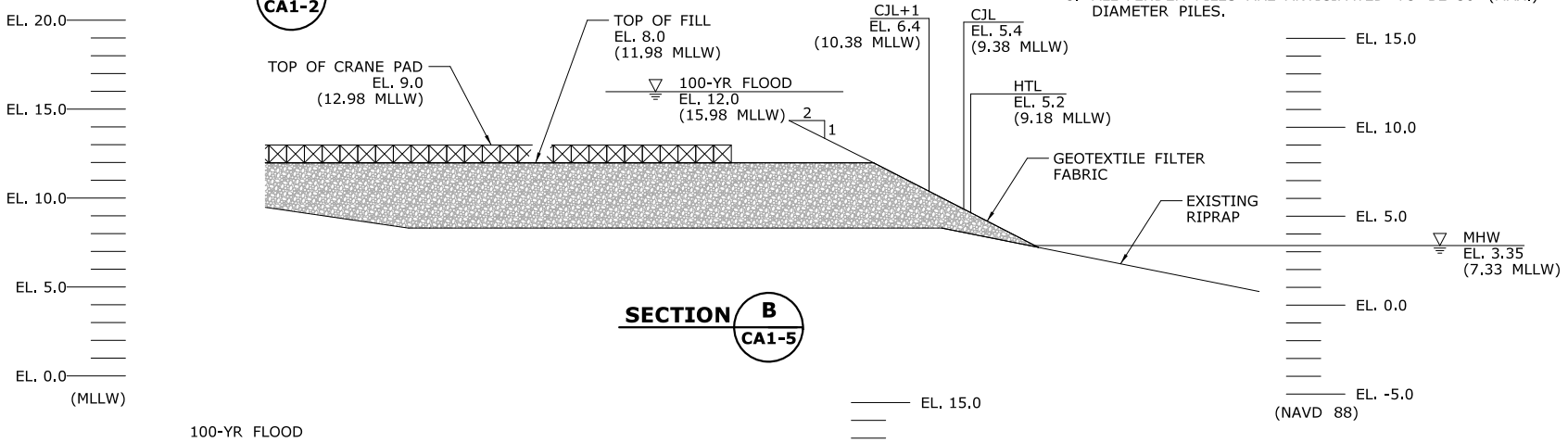
TOWN: **NORWALK**
PROJECT NO.: **0301-0176**
DRAWING TITLE: **ACTIVITY 1 IMAX REMOVAL (SHEET 6 OF 7)**
DATE: **REV 05-19-21**
DRAWING NO.: **CA1-6**



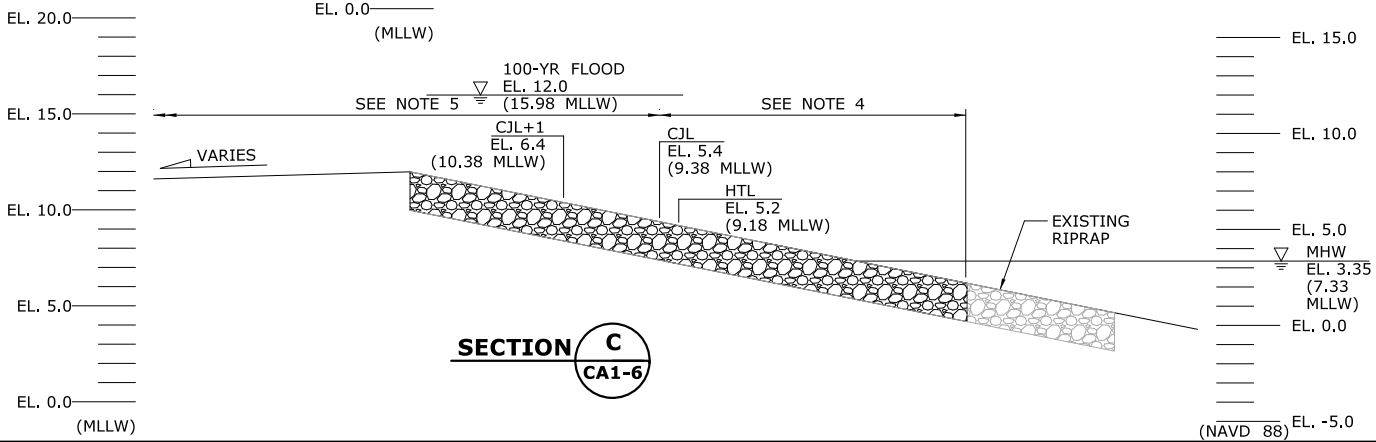
SECTION A CA1-2

NOTES:

1. VERTICAL DATUM IS NAVD 88. ELEVATIONS RELATIVE TO MLLW TIDAL DATUM ARE SHOWN IN PARENTHESES.
2. THIS ACTIVITY IS CONTAINED ENTIRELY WITHIN THE 100-YR FLOODPLAIN.
3. MARINE ENCLOSURE WILL BE INSTALLED SO THAT THE TOP WILL BE AT OR ABOVE ELEV. 6.2 (10.18 MLLW), 1 FOOT ABOVE THE HIGH TIDE LINE.
4. MATCH EXISTING MATERIAL AND TREATMENT ALONG SHORELINE FOR EROSION CONTROL.
5. TREAT SLOPE WITH APPROPRIATE FERTILIZER, SEED AND MULCH IN ACCORDANCE WITH CTDEEP GUIDELINES FOR SOIL EROSION AND SEDIMENT CONTROL.
6. GEOTEXTILE FILTER FABRIC WILL BE USED IF FILL IS PLACED BELOW THE HIGH TIDE LINE.
7. PILES WILL BE REMOVED AS NECESSARY TO INSTALL THE RECEIVING PIT FOR THE DUCTBANK INSTALLATION (CA2).
8. ALL FENDER PILES ARE ANTICIPATED TO BE 36" (MAX.) DIAMETER PILES.



SECTION B CA1-5



SECTION C CA1-6

ELEVATION TABLE			
DESCRIPTION	CONTOUR	ELEVATION (NAVD88)	ELEVATION (MLLW)
100-YEAR FLOODPLAIN	100 YR	12.0	15.98
MAX. ELEVATION OF LAND CAPABLE OF SUPPORTING TIDAL VEGETATION	CJL+1	6.4	10.38
CT COASTAL JURISDICTION LINE	CJL	5.4	9.38
HIGH TIDE LINE	HTL	5.2	9.18
MEAN HIGH WATER LINE	MHW	3.35	7.33
MEAN LOW WATER LINE	MLW	-3.72	0.26
MEAN LOWER LOW WATER LINE	MLLW	-3.98	0

SCALE:
SCALE IN FEET
0 5 10
SCALE 1"=10'

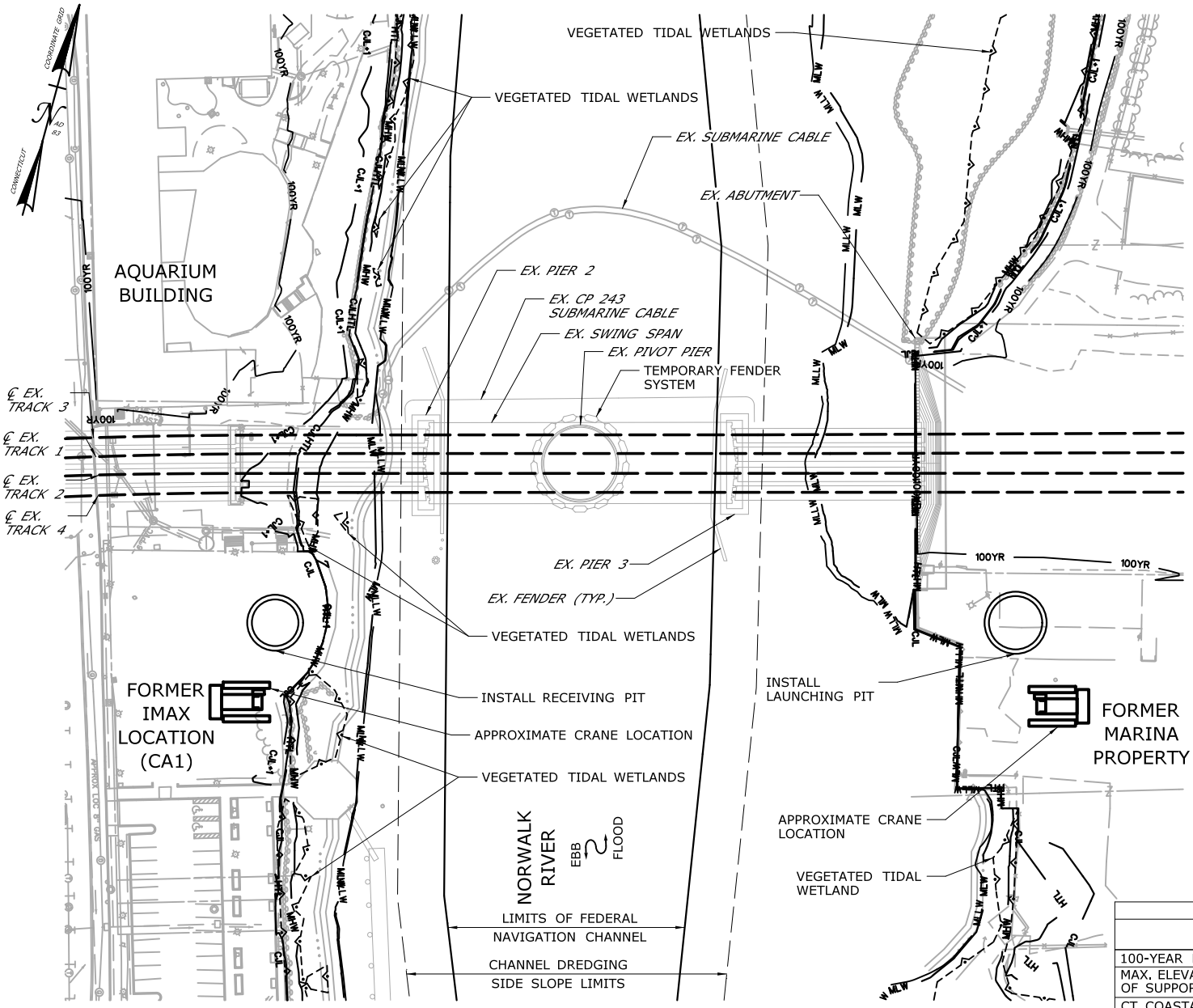
DRAWN: T. ADINOLFI
CHECKED: V. ROBBINS
APPROVED: C. BROWN

SIGNATURE BLOCK:

STATE OF CONNECTICUT
DEPARTMENT OF TRANSPORTATION

PROJECT TITLE:
WALK BRIDGE REPLACEMENT OVER THE NORWALK RIVER BRIDGE NO. 04288R/MP 41.5

TOWN: **NORWALK**
PROJECT NO.: **0301-0176**
DRAWING TITLE: **ACTIVITY 1 IMAX REMOVAL (SHEET 7 OF 7)**
DATE: **REV 02-23-21**
DRAWING NO.: **CA1-7**



PLAN

CONSTRUCTION SEQUENCE

THE SHEETS IN THIS SUBSET DESCRIBE THE SEQUENCE OF ACTIVITIES REQUIRED TO INSTALL THE PROPOSED DUCTBANK WITH REFERENCE TO RELATED ACTIVITIES THROUGHOUT. FOR DETAILS OF RELATED ACTIVITIES, REFER TO THE SUBSETS NOTED IN PARENTHESES. WORK DEPICTED ON THIS SHEET IS IDENTIFIED WITH AN "X" IN THE TABLE."

WORK DESCRIPTION	
X	INSTALL LAUNCHING AND RECEIVING PITS ON BOTH SIDES OF THE RIVER.
	MICRO-TUNNEL ACROSS RIVER FROM LAUNCHING PIT TO RECEIVING PIT.
	FILL PITS AND RESTORE SITE.

NOTES:

1. LAUNCHING AND RECEIVING PITS ARE BOTH LOCATED LANDWARD OF THE CJL.
2. EXCAVATED MATERIAL AND DEWATERED WASTEWATERS SHALL BE MANAGED IN ACCORDANCE WITH THE ENVIRONMENTAL SPECIAL PROVISIONS AND CTDEEP REQUIREMENTS.
3. PITS WILL BE FORMED BY 36" (MAX) DIAMETER SECANT PILES. THE SIZE AND SHAPE OF THE PITS WILL BE DETERMINED WITH FINAL DESIGN.
4. TOP OF LAUNCHING AND RECIEVING PIT WILL BE INSTALLED TO ELEV. 6.2 (MIN.) (10.18 MLLW) 1 FOOT ABOVE HIGH TIDE LINE.
5. THIS ACTIVITY CONSIST OF MICRO-TUNNELING TO BURY DUCTS BENEATH THE RIVER FOR FUTURE INSTALLATION OF MNR TRACTION POWER AND SIGNALS, AND SUBMARINE CABLES FOR BRIDGE POWER AND CONTROL. CONDUCTORS WILL BE INSTALLED IN THE FUTURE FROM THE ENDS OF THE DUCTS WITHOUT FURTHER DISTURBANCE TO THE RIVER.
6. VERTICAL DATUM IS NAVD 88. ELEVATIONS RELATIVE TO MLLW TIDAL DATUM ARE SHOWN IN PARENTHESES.

ELEVATION TABLE			
DESCRIPTION	CONTOUR	ELEVATION (NAVD88)	ELEVATION (MLLW)
100-YEAR FLOODPLAIN	100 YR	12.0	15.98
MAX. ELEVATION OF LAND CAPABLE OF SUPPORTING TIDAL VEGETATION	CJL+1	6.4	10.38
CT COASTAL JURISDICTION LINE	CJL	5.4	9.38
HIGH TIDE LINE	HTL	5.2	9.18
MEAN HIGH WATER LINE	MHW	3.35	7.33
MEAN LOW WATER LINE	MLW	-3.72	0.26
MEAN LOWER LOW WATER LINE	MLLW	-3.98	0

SCALE: SCALE IN FEET 0 50 100 SCALE 1"=100'

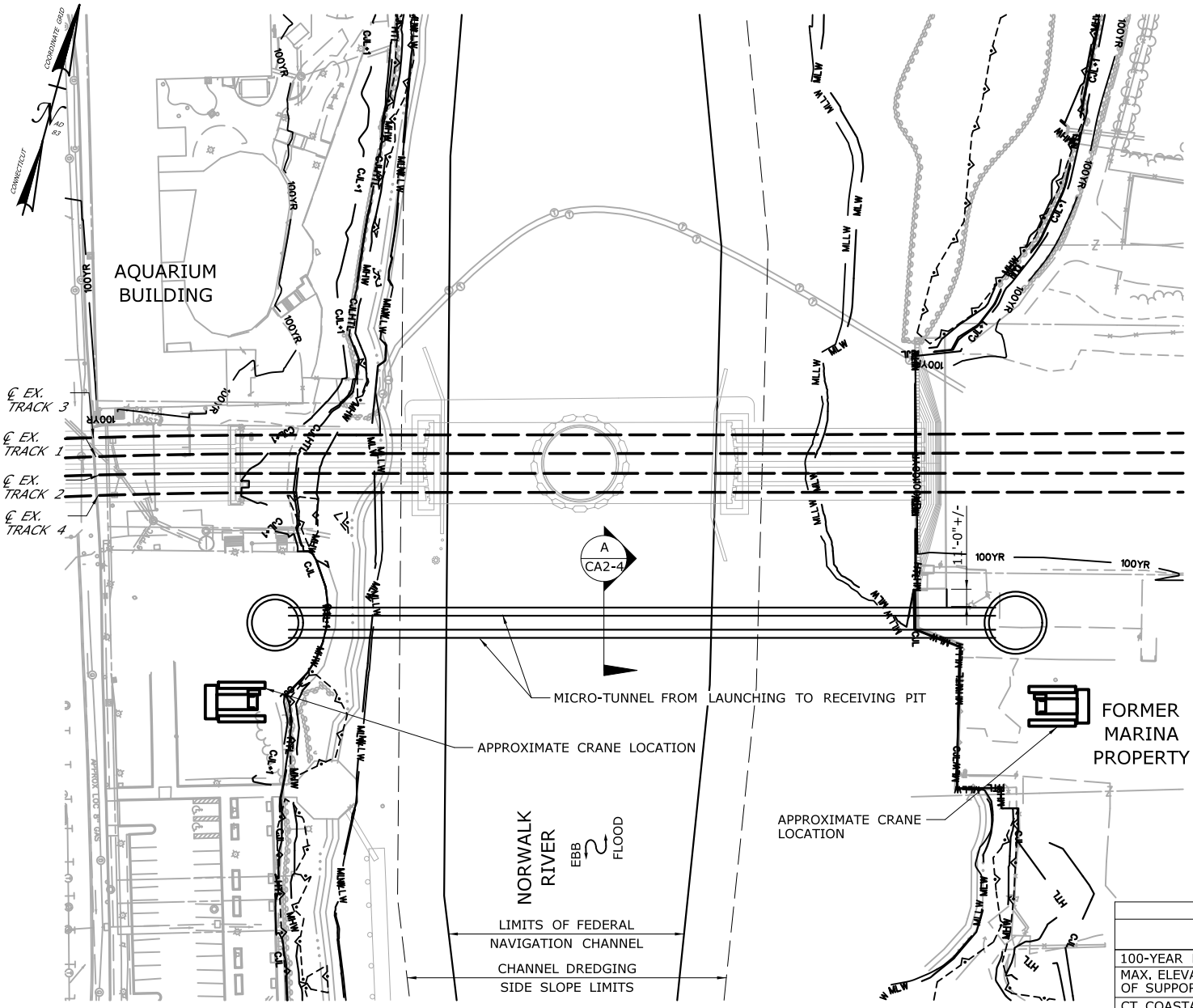
DRAWN: T. ADINOLFI
CHECKED: V. ROBBINS
APPROVED: C. BROWN

SIGNATURE BLOCK:

STATE OF CONNECTICUT
DEPARTMENT OF TRANSPORTATION

PROJECT TITLE:
WALK BRIDGE REPLACEMENT OVER THE NORWALK RIVER BRIDGE NO. 04288R/MP 41.5

TOWN: **NORWALK**
PROJECT NO.: **0301-0176**
DRAWING TITLE: **ACTIVITY 2 DUCTBANK INSTALLATION (1 OF 4)**
DATE: **REV 02-23-21**
DRAWING NO.: **CA2-1**



PLAN

CONSTRUCTION SEQUENCE

THE SHEETS IN THIS SUBSET DESCRIBE THE SEQUENCE OF ACTIVITIES REQUIRED TO INSTALL THE PROPOSED DUCTBANK WITH REFERENCE TO RELATED ACTIVITIES THROUGHOUT. FOR DETAILS OF RELATED ACTIVITIES, REFER TO THE SUBSETS NOTED IN PARENTHESES. WORK DEPICTED ON THIS SHEET IS IDENTIFIED WITH AN "X" IN THE TABLE."

WORK DESCRIPTION	
	INSTALL LAUNCHING AND RECEIVING PITS ON BOTH SIDES OF THE RIVER.
X	MICRO-TUNNEL ACROSS RIVER FROM LAUNCHING PIT TO RECEIVING PIT.
	FILL PITS AND RESTORE SITE.

NOTES:

1. LAUNCHING AND RECEIVING PITS ARE BOTH LOCATED LANDWARD OF THE CJL.
2. EXCAVATED MATERIAL AND DEWATERED WASTEWATERS SHALL BE MANAGED IN ACCORDANCE WITH THE ENVIRONMENTAL SPECIAL PROVISIONS AND CTDEEP REQUIREMENTS.
3. MICRO-TUNNEL CASING WILL BE INSTALLED A MINIMUM OF 13 FEET BELOW AUTHORIZED DREDGE ELEVATION WITH NO DISTURBANCE TO THE RIVER BOTTOM.
4. VERTICAL DATUM IS NAVD 88. ELEVATIONS RELATIVE TO MLLW TIDAL DATUM ARE SHOWN IN PARENTHESES.

ELEVATION TABLE			
DESCRIPTION	CONTOUR	ELEVATION (NAVD88)	ELEVATION (MLLW)
100-YEAR FLOODPLAIN	100 YR	12.0	15.98
MAX. ELEVATION OF LAND CAPABLE OF SUPPORTING TIDAL VEGETATION	CJL+1	6.4	10.38
CT COASTAL JURISDICTION LINE	CJL	5.4	9.38
HIGH TIDE LINE	HTL	5.2	9.18
MEAN HIGH WATER LINE	MHW	3.35	7.33
MEAN LOW WATER LINE	MLW	-3.72	0.26
MEAN LOWER LOW WATER LINE	MLLW	-3.98	0

SCALE:
SCALE IN FEET
0 50 100
SCALE 1"=100'

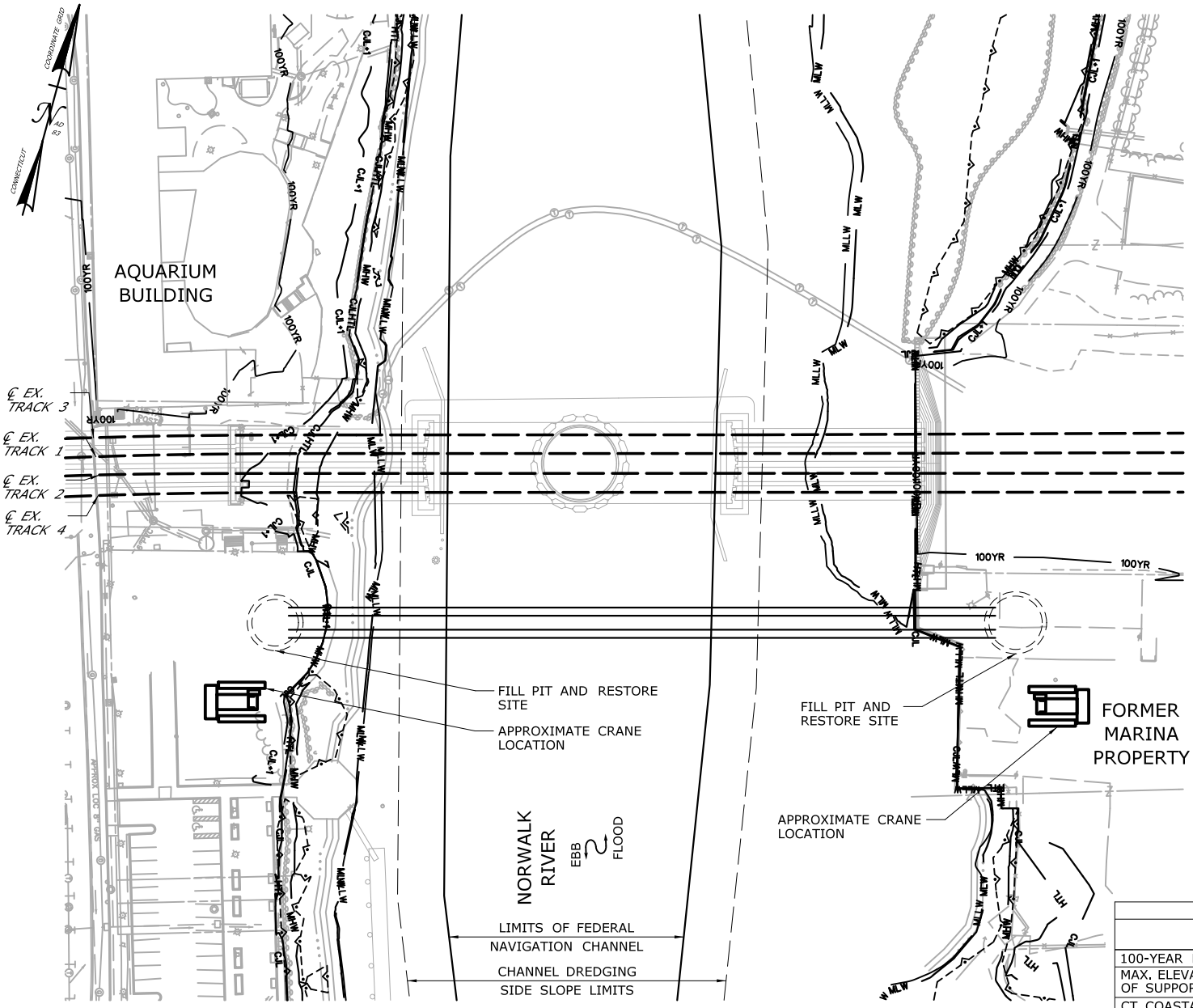
DRAWN: T. ADINOLFI
CHECKED: V. ROBBINS
APPROVED: C. BROWN

SIGNATURE BLOCK:

STATE OF CONNECTICUT
DEPARTMENT OF TRANSPORTATION

PROJECT TITLE:
WALK BRIDGE REPLACEMENT OVER THE NORWALK RIVER BRIDGE NO. 04288R/MP 41.5

TOWN: **NORWALK**
PROJECT NO.: **0301-0176**
DRAWING TITLE: **ACTIVITY 2 DUCTBANK INSTALLATION (2 OF 4)**
DATE: **REV 02-23-21**
DRAWING NO.: **CA2-2**



PLAN

CONSTRUCTION SEQUENCE

THE SHEETS IN THIS SUBSET DESCRIBE THE SEQUENCE OF ACTIVITIES REQUIRED TO INSTALL THE PROPOSED DUCTBANK WITH REFERENCE TO RELATED ACTIVITIES THROUGHOUT. FOR DETAILS OF RELATED ACTIVITIES, REFER TO THE SUBSETS NOTED IN PARENTHESES. WORK DEPICTED ON THIS SHEET IS IDENTIFIED WITH AN "X" IN THE TABLE."

	WORK DESCRIPTION
	INSTALL LAUNCHING AND RECEIVING PITS ON BOTH SIDES OF THE RIVER.
	MICRO-TUNNEL ACROSS RIVER FROM LAUNCHING PIT TO RECEIVING PIT.
X	FILL PITS AND RESTORE SITE.

NOTES:

1. LAUNCHING AND RECEIVING PITS ARE BOTH LOCATED LANDWARD OF THE CJL.
2. EXCAVATED MATERIAL AND DEWATERED WASTEWATERS SHALL BE MANAGED IN ACCORDANCE WITH THE ENVIRONMENTAL SPECIAL PROVISIONS AND CTDEEP REQUIREMENTS.
3. VERTICAL DATUM IS NAVD 88. ELEVATIONS RELATIVE TO MLLW TIDAL DATUM ARE SHOWN IN PARENTHESES.

ELEVATION TABLE			
DESCRIPTION	CONTOUR	ELEVATION (NAVD88)	ELEVATION (MLLW)
100-YEAR FLOODPLAIN	100 YR	12.0	15.98
MAX. ELEVATION OF LAND CAPABLE OF SUPPORTING TIDAL VEGETATION	CJL+1	6.4	10.38
CT COASTAL JURISDICTION LINE	CJL	5.4	9.38
HIGH TIDE LINE	HTL	5.2	9.18
MEAN HIGH WATER LINE	MHW	3.35	7.33
MEAN LOW WATER LINE	MLW	-3.72	0.26
MEAN LOWER LOW WATER LINE	MLLW	-3.98	0

SCALE:
SCALE IN FEET
0 50 100
SCALE 1"=100'

DRAWN: T. ADINOLFI
CHECKED: V. ROBBINS
APPROVED: C. BROWN

SIGNATURE BLOCK:

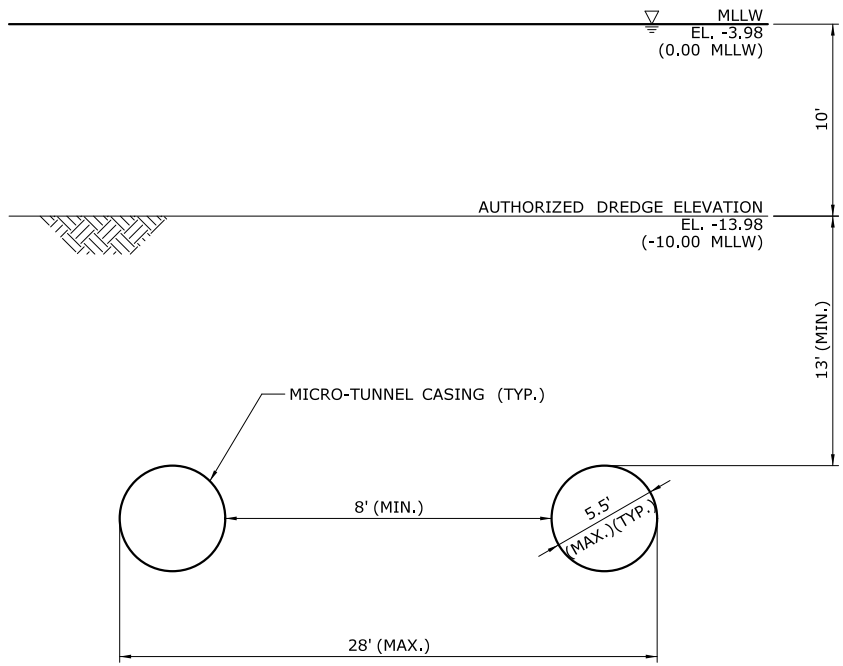
STATE OF CONNECTICUT
DEPARTMENT OF TRANSPORTATION

PROJECT TITLE:
WALK BRIDGE REPLACEMENT OVER THE NORWALK RIVER BRIDGE NO. 04288R/MP 41.5

TOWN: **NORWALK**
PROJECT NO.: **0301-0176**
DRAWING TITLE: **ACTIVITY 2 DUCTBANK INSTALLATION (3 OF 4)**
DATE: **REV 02-23-21**
DRAWING NO.: **CA2-3**

NOTES:

1. LAUNCHING AND RECEIVING PITS ARE BOTH LOCATED LANDWARD OF THE CJL.
2. EXCAVATED MATERIAL AND DEWATERED WASTEWATERS SHALL BE MANAGED IN ACCORDANCE WITH THE ENVIRONMENTAL SPECIAL PROVISIONS AND CTDEEP REQUIREMENTS.
3. MICRO-TUNNEL CASING WILL BE INSTALLED A MINIMUM OF 13 FEET BELOW AUTHORIZED DREDGE ELEVATION WITH NO DISTURBANCE TO THE RIVER BOTTOM.
4. VERTICAL DATUM IS NAVD 88. ELEVATIONS RELATIVE TO MLLW TIDAL DATUM ARE SHOWN IN PARENTHESES.



SECTION A / **CA2-2**

ELEVATION TABLE			
DESCRIPTION	CONTOUR	ELEVATION (NAVD88)	ELEVATION (MLLW)
100-YEAR FLOODPLAIN	100 YR	12.0	15.98
MAX. ELEVATION OF LAND CAPABLE OF SUPPORTING TIDAL VEGETATION	CJL+1	6.4	10.38
CT COASTAL JURISDICTION LINE	CJL	5.4	9.38
HIGH TIDE LINE	HTL	5.2	9.18
MEAN HIGH WATER LINE	MHW	3.35	7.33
MEAN LOW WATER LINE	MLW	-3.72	0.26
MEAN LOWER LOW WATER LINE	MLLW	-3.98	0

SCALE: SCALE IN FEET 0 5 10 SCALE 1"=10'

DRAWN: T. ADINOLFI

CHECKED: V. ROBBINS

APPROVED: C. BROWN

SIGNATURE BLOCK:

STATE OF CONNECTICUT
DEPARTMENT OF TRANSPORTATION

PROJECT TITLE:
WALK BRIDGE REPLACEMENT OVER THE NORWALK RIVER BRIDGE NO. 04288R/MP 41.5

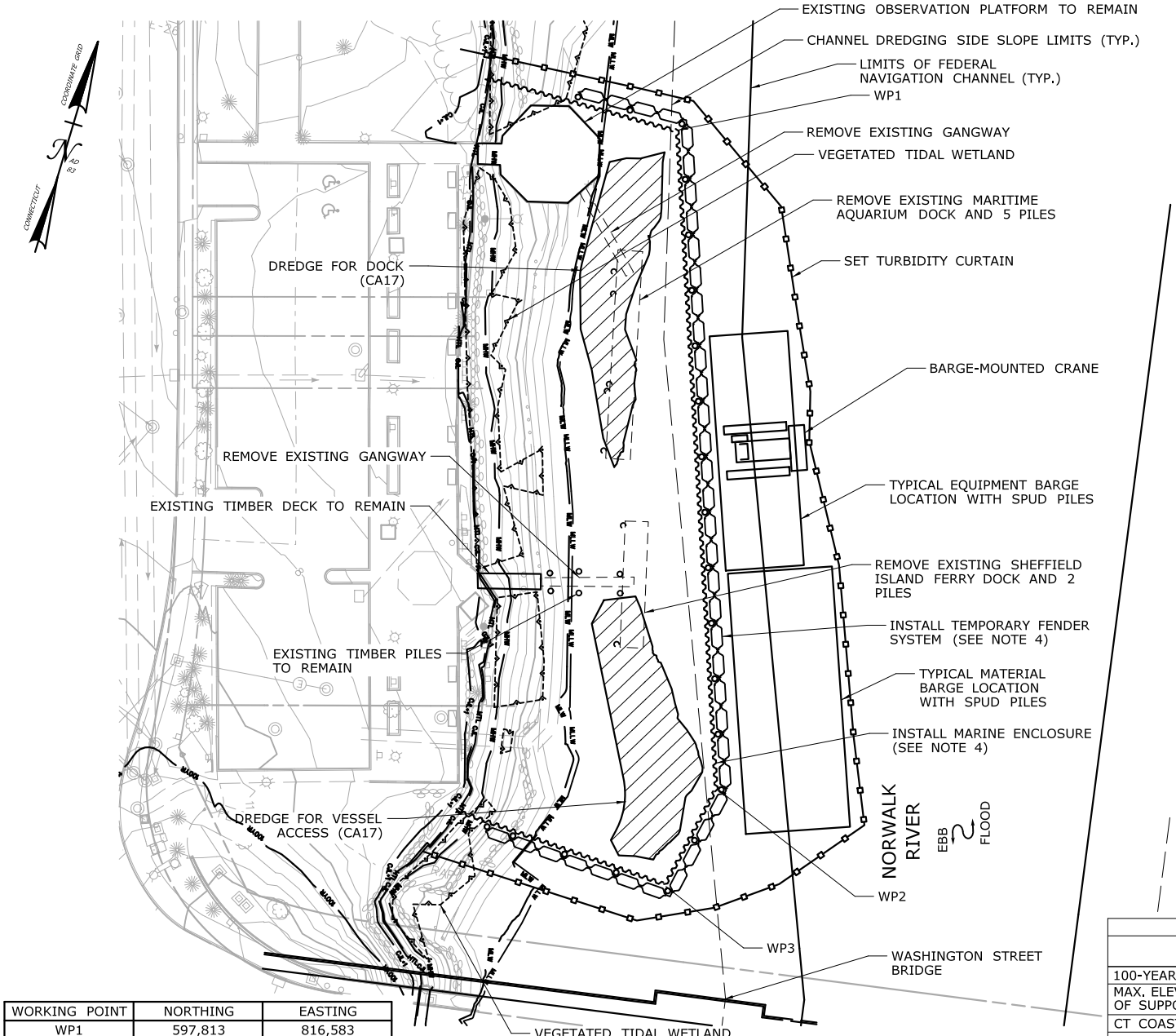
TOWN: **NORWALK**

PROJECT NO.: **0301-0176**

DRAWING TITLE: **ACTIVITY 2 DUCTBANK INSTALLATION (4 OF 4)**

DATE: **REV 02-23-21**

DRAWING NO.: **CA2-4**



PLAN

WORKING POINT	NORTHING	EASTING
WP1	597,813	816,583
WP2	597,576	816,669
WP3	597,534	816,661

CONSTRUCTION SEQUENCE

THE SHEETS IN THIS SUBSET DESCRIBE THE SEQUENCE OF ACTIVITIES REQUIRED TO RELOCATE THE VESSEL DOCKS WITH REFERENCES TO RELATED ACTIVITIES THROUGHOUT. FOR DETAILS OF RELATED ACTIVITIES, REFER TO THE SUBSETS NOTED IN PARENTHESES. WORK DEPICTED ON THIS SHEET IS IDENTIFIED WITH AN "X" IN THE TABLE.

	WORK DESCRIPTION
X	REMOVE MARITIME AQUARIUM AND SHEFFIELD ISLAND FERRY DOCKS AND GANGWAYS.
X	SET TURBIDITY CURTAIN AND REMOVE EXISTING PILES.
X	INSTALL MARINE ENCLOSURE AND TEMPORARY FENDER SYSTEM. DREDGE FOR VESSEL ACCESS TO DOCK (SEE ACTIVITY 17).
	REMOVE MARINE ENCLOSURE AND TEMPORARY FENDER SYSTEM.
	INSTALL PILES FOR NEW DOCK.
	RELOCATE MARITIME AQUARIUM AND SHEFFIELD ISLAND FERRY GANGWAYS. INSTALL NEW PERMANENT DOCK AND GANGWAY.

NOTES:

1. VERTICAL DATUM IS NAVD 88. ELEVATIONS RELATIVE TO MLLW TIDAL DATUM ARE SHOWN IN PARENTHESES.
2. ALL FENDER, PERMANENT AND SPUD PILES ARE ANTICIPATED TO BE 36" (MAX.) DIAMETER PILES.
3. SEE VESSEL BERTHING PLAN (DWG. GEN-9) FOR TYPICAL BARGE SIZES.
4. MARINE ENCLOSURE AND TEMPORARY FENDER SYSTEM WILL ONLY BE REQUIRED IF DREDGING OCCURS OUTSIDE THE MONTHS OF DECEMBER AND JANUARY.
5. TOP OF MARINE ENCLOSURE WILL BE INSTALLED TO ELEV. 6.2 (MIN.) (10.18 MLLW), 1 FOOT ABOVE HIGH TIDE LINE.
6. THIS ACTIVITY IS CONTAINED ENTIRELY WITHIN THE 100-YR FLOODPLAIN.

ELEVATION TABLE			
DESCRIPTION	CONTOUR	ELEVATION (NAVD88)	ELEVATION (MLLW)
100-YEAR FLOODPLAIN	100 YR	12.0	15.98
MAX. ELEVATION OF LAND CAPABLE OF SUPPORTING TIDAL VEGETATION	CJL+1	6.4	10.38
CT COASTAL JURISDICTION LINE	CJL	5.4	9.38
HIGH TIDE LINE	HTL	5.2	9.18
MEAN HIGH WATER LINE	MHW	3.35	7.33
MEAN LOW WATER LINE	MLW	-3.72	0.26
MEAN LOWER LOW WATER LINE	MLLW	-3.98	0

SCALE:
SCALE IN FEET
0 30 60
SCALE 1"=60'

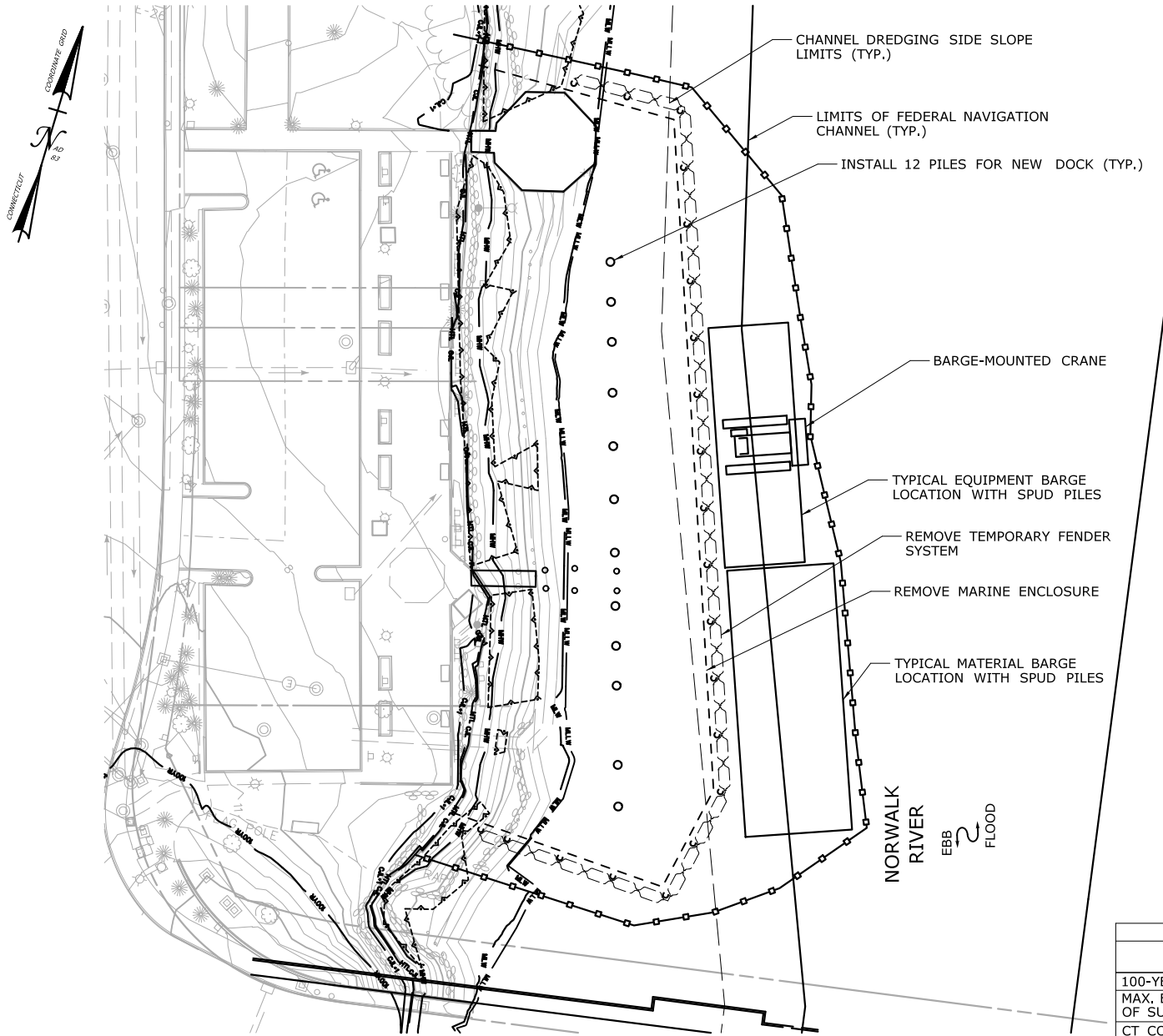
DRAWN: T. ADINOLFI
CHECKED: V. ROBBINS
APPROVED: C. BROWN

SIGNATURE BLOCK:

STATE OF CONNECTICUT
DEPARTMENT OF TRANSPORTATION

PROJECT TITLE:
WALK BRIDGE REPLACEMENT OVER THE NORWALK RIVER BRIDGE NO. 04288R/MP 41.5

TOWN: **NORWALK**
PROJECT NO.: **0301-0176**
DRAWING TITLE: **ACTIVITY 3 VESSEL RELOCATION (SHEET 1 OF 4)**
DATE: **REV 02-23-21**
DRAWING NO.: **CA3-1**



PLAN

CONSTRUCTION SEQUENCE

THE SHEETS IN THIS SUBSET DESCRIBE THE SEQUENCE OF ACTIVITIES REQUIRED TO RELOCATE THE VESSEL DOCKS WITH REFERENCES TO RELATED ACTIVITIES THROUGHOUT. FOR DETAILS OF RELATED ACTIVITIES, REFER TO THE SUBSETS NOTED IN PARENTHESES. WORK DEPICTED ON THIS SHEET IS IDENTIFIED WITH AN "X" IN THE TABLE.

	WORK DESCRIPTION
	REMOVE MARITIME AQUARIUM AND SHEFFIELD ISLAND FERRY DOCKS AND GANGWAYS.
	SET TURBIDITY CURTAIN AND REMOVE EXISTING PILES.
	INSTALL MARINE ENCLOSURE AND TEMPORARY FENDER SYSTEM. DREDGE FOR VESSEL ACCESS TO DOCK (SEE ACTIVITY 17).
X	REMOVE MARINE ENCLOSURE AND TEMPORARY FENDER SYSTEM.
X	INSTALL PILES FOR NEW DOCK.
	RELOCATE MARITIME AQUARIUM AND SHEFFIELD ISLAND FERRY GANGWAYS. INSTALL NEW PERMANENT DOCK AND GANGWAY.

NOTES:

1. VERTICAL DATUM IS NAVD 88. ELEVATIONS RELATIVE TO MLLW TIDAL DATUM ARE SHOWN IN PARENTHESES.
2. ALL FENDER, PERMANENT AND SPUD PILES ARE ANTICIPATED TO BE 36" (MAX.) DIAMETER PILES.
3. SEE VESSEL BERTHING PLAN (DWG. GEN-9) FOR TYPICAL BARGE SIZES.
4. DREDGING LIMITS NOT SHOWN FOR CLARITY (SEE ACTIVITY 17).
5. THIS ACTIVITY IS CONTAINED ENTIRELY WITHIN THE 100-YR FLOODPLAIN.

ELEVATION TABLE			
DESCRIPTION	CONTOUR	ELEVATION (NAVD88)	ELEVATION (MLLW)
100-YEAR FLOODPLAIN	100 YR	12.0	15.98
MAX. ELEVATION OF LAND CAPABLE OF SUPPORTING TIDAL VEGETATION	CJL+1	6.4	10.38
CT COASTAL JURISDICTION LINE	CJL	5.4	9.38
HIGH TIDE LINE	HTL	5.2	9.18
MEAN HIGH WATER LINE	MHW	3.35	7.33
MEAN LOW WATER LINE	MLW	-3.72	0.26
MEAN LOWER LOW WATER LINE	MLLW	-3.98	0

SCALE:
SCALE IN FEET
0 30 60
SCALE 1"=60'

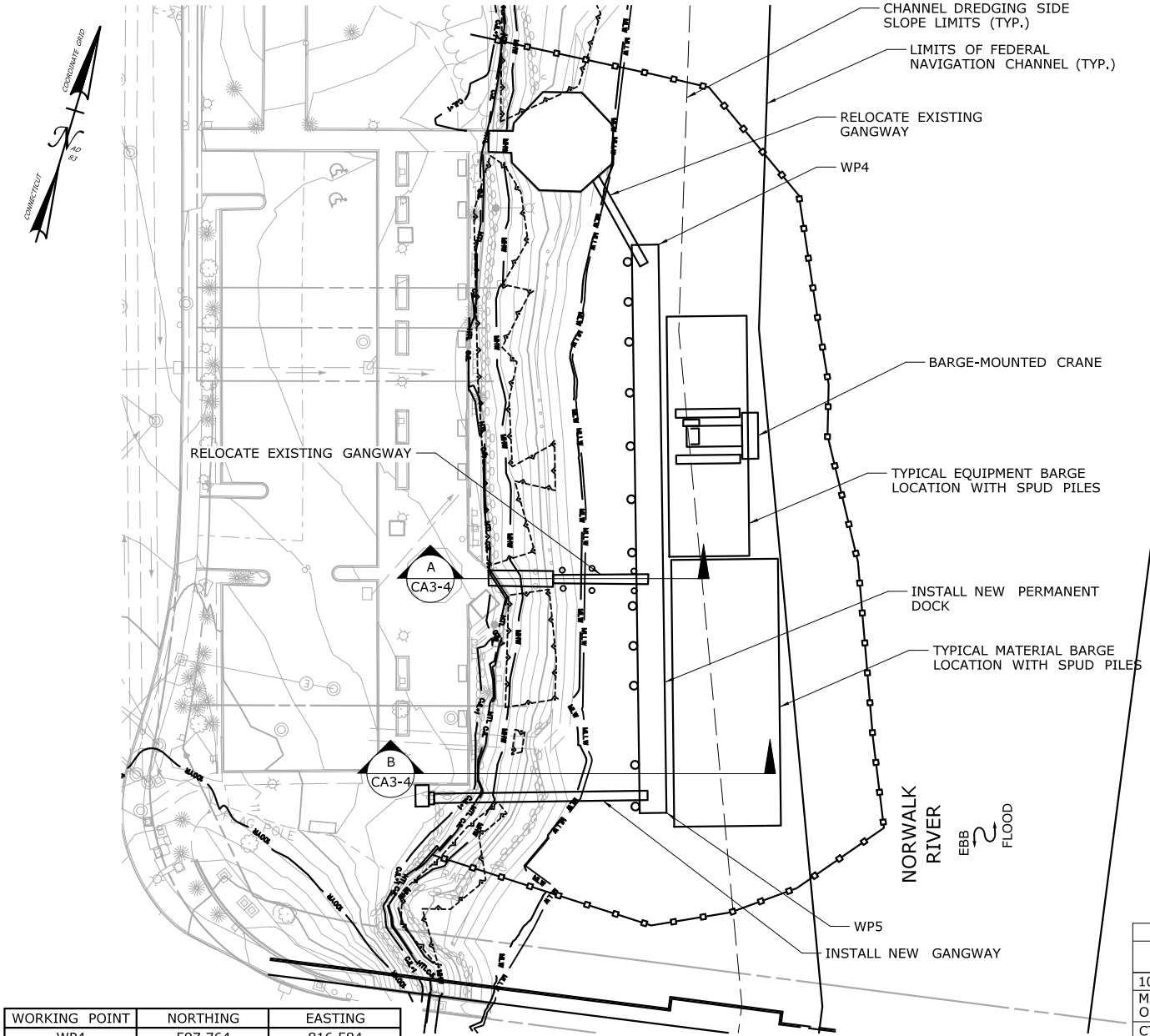
DRAWN: T. ADINOLFI
CHECKED: V. ROBBINS
APPROVED: C. BROWN

SIGNATURE BLOCK:

STATE OF CONNECTICUT
DEPARTMENT OF TRANSPORTATION

PROJECT TITLE:
WALK BRIDGE REPLACEMENT OVER THE NORWALK RIVER BRIDGE NO. 04288R/MP 41.5

TOWN: **NORWALK**
PROJECT NO.: **0301-0176**
DRAWING TITLE: **ACTIVITY 3 VESSEL RELOCATION (SHEET 2 OF 4)**
DATE: **REV 02-23-21**
DRAWING NO.: **CA3-2**



WORKING POINT	NORTHING	EASTING
WP4	597,764	816,584
WP5	597,561	816,648

PLAN

CONSTRUCTION SEQUENCE

THE SHEETS IN THIS SUBSET DESCRIBE THE SEQUENCE OF ACTIVITIES REQUIRED TO RELOCATE THE VESSEL DOCKS WITH REFERENCES TO RELATED ACTIVITIES THROUGHOUT. FOR DETAILS OF RELATED ACTIVITIES, REFER TO THE SUBSETS NOTED IN PARENTHESES. WORK DEPICTED ON THIS SHEET IS IDENTIFIED WITH AN "X" IN THE TABLE.

	WORK DESCRIPTION
	REMOVE MARITIME AQUARIUM AND SHEFFIELD ISLAND FERRY DOCKS AND GANGWAYS.
	SET TURBIDITY CURTAIN AND REMOVE EXISTING PILES.
	INSTALL MARINE ENCLOSURE AND TEMPORARY FENDER SYSTEM. DREDGE FOR VESSEL ACCESS TO DOCK (SEE ACTIVITY 17).
	REMOVE MARINE ENCLOSURE AND TEMPORARY FENDER SYSTEM.
	INSTALL PILES FOR NEW DOCK.
X	RELOCATE MARITIME AQUARIUM AND SHEFFIELD ISLAND FERRY GANGWAYS. INSTALL NEW PERMANENT DOCK AND GANGWAY.

NOTES:

1. VERTICAL DATUM IS NAVD 88. ELEVATIONS RELATIVE TO MLLW TIDAL DATUM ARE SHOWN IN PARENTHESES.
2. ALL FENDER, PERMANENT AND SPUD PILES ARE ANTICIPATED TO BE 36" (MAX.) DIAMETER PILES.
3. SEE VESSEL BERTHING PLAN (DWG. GEN-9) FOR TYPICAL BARGE SIZES.
4. DREDGING LIMITS NOT SHOWN FOR CLARITY (SEE ACTIVITY 17).
5. THIS ACTIVITY IS CONTAINED ENTIRELY WITHIN THE 100-YR FLOODPLAIN.

ELEVATION TABLE			
DESCRIPTION	CONTOUR	ELEVATION (NAVD88)	ELEVATION (MLLW)
100-YEAR FLOODPLAIN	100 YR	12.0	15.98
MAX. ELEVATION OF LAND CAPABLE OF SUPPORTING TIDAL VEGETATION	CJL+1	6.4	10.38
CT COASTAL JURISDICTION LINE	CJL	5.4	9.38
HIGH TIDE LINE	HTL	5.2	9.18
MEAN HIGH WATER LINE	MHW	3.35	7.33
MEAN LOW WATER LINE	MLW	-3.72	0.26
MEAN LOWER LOW WATER LINE	MLLW	-3.98	0

SCALE:
SCALE IN FEET
0 30 60
SCALE 1"=60'

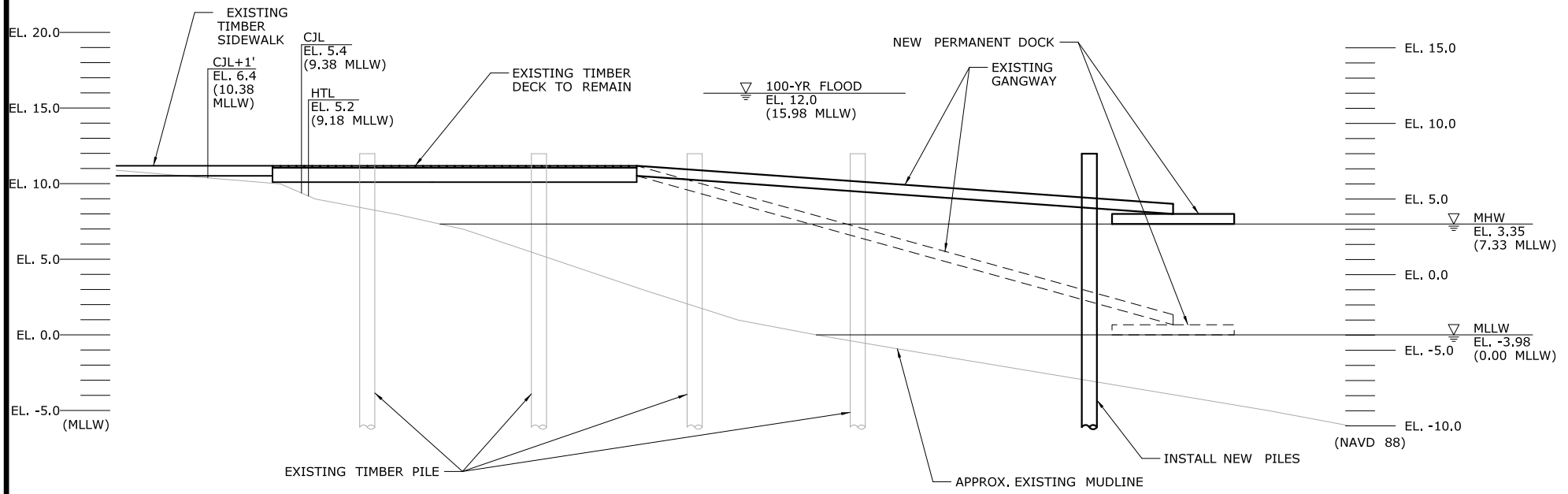
DRAWN: T. ADINOLFI
CHECKED: V. ROBBINS
APPROVED: C. BROWN

SIGNATURE BLOCK:

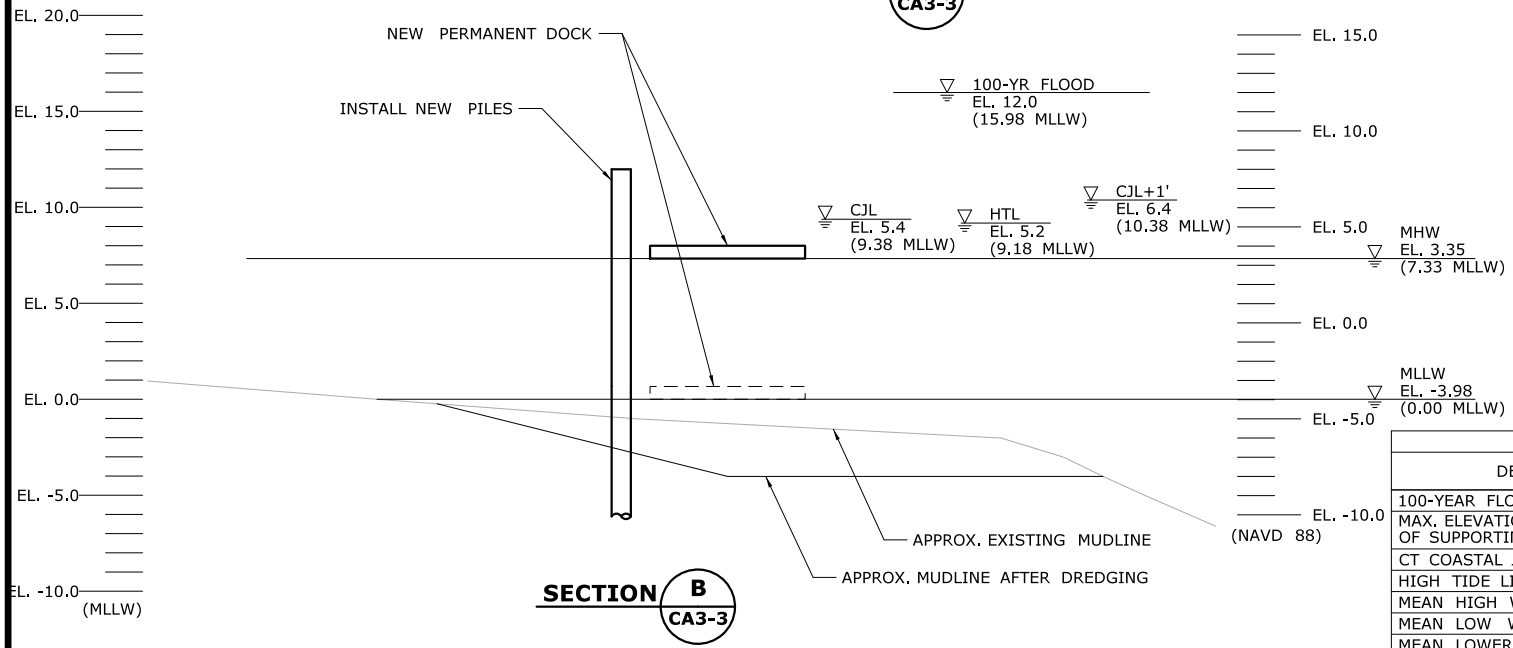
STATE OF CONNECTICUT
DEPARTMENT OF TRANSPORTATION

PROJECT TITLE:
WALK BRIDGE REPLACEMENT OVER THE NORWALK RIVER BRIDGE NO. 04288R/MP 41.5

TOWN: **NORWALK**
PROJECT NO.: **0301-0176**
DRAWING TITLE: **ACTIVITY 3 VESSEL RELOCATION (SHEET 3 OF 4)**
DATE: **REV 02-23-21**
DRAWING NO.: **CA3-3**



SECTION A CA3-3



SECTION B CA3-3

NOTES:

1. VERTICAL DATUM IS NAVD 88. ELEVATIONS RELATIVE TO MLLW TIDAL DATUM ARE SHOWN IN PARENTHESES.
2. ALL FENDER, PERMANENT AND SPUD PILES ARE ANTICIPATED TO BE 36" (MAX.) DIAMETER PILES.
3. APPROXIMATE DREDGED RIVER BOTTOM AND SIDE SLOPES SHOW. SEE ACTIVITY 17 FOR COMPLETE DREDGING LIMITS.
4. EXISTING GANGWAYS WILL BE TEMPORARILY REMOVED AND RELOCATED TO THEIR PERMANENT LOCATIONS AS NOTED.
5. THIS ACTIVITY IS CONTAINED ENTIRELY WITHIN THE 100-YR FLOODPLAIN.

ELEVATION TABLE

DESCRIPTION	CONTOUR	ELEVATION (NAVD88)	ELEVATION (MLLW)
100-YEAR FLOODPLAIN	100 YR	12.0	15.98
MAX. ELEVATION OF LAND CAPABLE OF SUPPORTING TIDAL VEGETATION	CJL+1	6.4	10.38
CT COASTAL JURISDICTION LINE	CJL	5.4	9.38
HIGH TIDE LINE	HTL	5.2	9.18
MEAN HIGH WATER LINE	MHW	3.35	7.33
MEAN LOW WATER LINE	MLW	-3.72	0.26
MEAN LOWER LOW WATER LINE	MLLW	-3.98	0

SCALE: SCALE IN FEET 0 5 10 SCALE 1"=10'

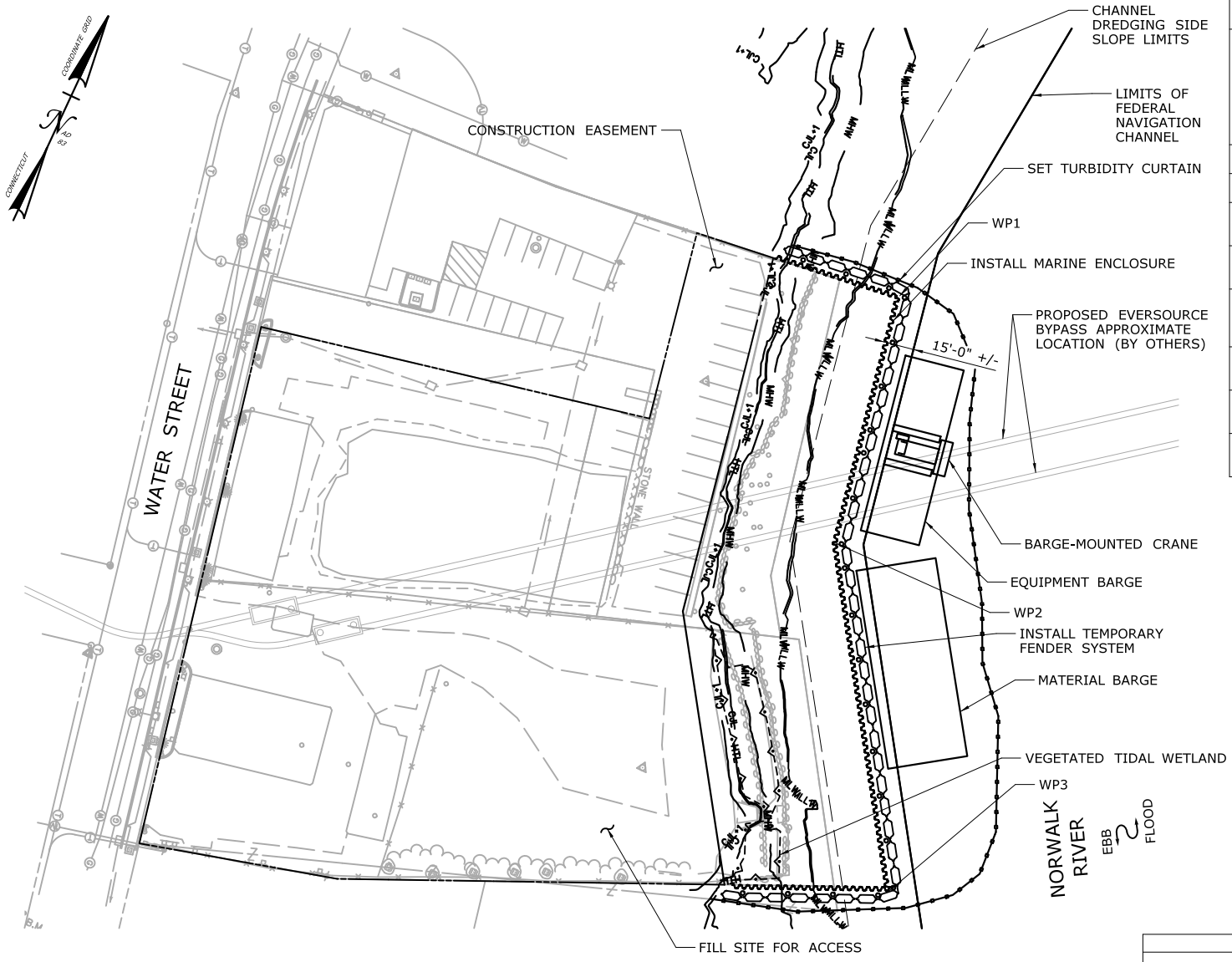
DRAWN: T. ADINOLFI
CHECKED: V. ROBBINS
APPROVED: C. BROWN

SIGNATURE BLOCK:

STATE OF CONNECTICUT
DEPARTMENT OF TRANSPORTATION

PROJECT TITLE:
WALK BRIDGE REPLACEMENT OVER THE NORWALK RIVER BRIDGE NO. 04288R/MP 41.5

TOWN: **NORWALK**
PROJECT NO.: **0301-0176**
DRAWING TITLE: **ACTIVITY 3 VESSEL RELOCATION (SHEET 4 OF 4)**
DATE: **REV 02-23-21**
DRAWING NO.: **CA3-4**



PLAN

WORKING POINT	NORTHING	EASTING
WP1	597,207	816,710
WP2	597,082	816,734
WP3	596,936	816,831

CONSTRUCTION SEQUENCE

THE SHEETS IN THIS SUBSET DESCRIBE THE SEQUENCE OF ACTIVITIES RELATED TO TEMPORARY AND PERMANENT IMPROVEMENTS AT THE MARINE STAGING YARD WITH REFERENCES TO RELATED ACTIVITIES THROUGHOUT. FOR DETAILS OF RELATED ACTIVITIES, REFER TO THE SUBSETS NOTED IN PARENTHESES. WORK DEPICTED ON THIS SHEET IS IDENTIFIED WITH AN "X" IN THE TABLE.

	WORK DESCRIPTION
X	FILL SITE FOR ACCESS.
X	MOVE BARGES INTO PLACE AND SET TURBIDITY CURTAIN.
X	INSTALL MARINE ENCLOSURE AND TEMPORARY FENDER SYSTEM.
	INSTALL BULKHEAD, REMOVE DERELICT PILES AND DREDGE TO EL. -11 (MIN.) (-7.02 MLLW) (SEE ACTIVITY 17).
	REMOVE MARINE ENCLOSURE AND TEMPORARY FENDER SYSTEM. DRIVE PILES FOR DOCKS.
	REMOVE TURBIDITY CURTAIN. SET DOCKS AND GANGWAYS.
	SET TURBIDITY CURTAIN, REMOVE DOCKS, GANGWAYS AND PILES.

NOTES:

1. THIS ACTIVITY IS CONTAINED ENTIRELY WITHIN THE 100-YR FLOODPLAIN.
2. VERTICAL DATUM IS NAVD 88. ELEVATIONS RELATIVE TO MLLW TIDAL DATUM ARE SHOWN IN PARENTHESES.
3. SEE VESSEL BERTHING PLAN (DWG. GEN-9) FOR TYPICAL BARGE SIZES.
4. ALL PILES ARE ANTICIPATED TO BE 36" (MAX.) DIAMETER PIPE PILES.
5. TOP OF MARINE ENCLOSURE WILL BE INSTALLED TO ELEV. 6.2 (MIN.) (10.18 MLLW), 1 FOOT ABOVE HIGH TIDE LINE.
6. MARINE ENCLOSURE AND TEMPORARY FENDER SYSTEM WILL ONLY BE REQUIRED IF DREDGING OCCURS OUTSIDE THE MONTHS OF DECEMBER AND JANUARY.
7. LIMITS OF TEMPORARY FENDER SYSTEM AND TEMPORARY AIDS TO NAVIGATION (E.G., LIGHTING) WILL BE COORDINATED WITH THE USCG.
8. FOR TYPICAL FILL SECTION, SEE DWG. CA4-6.

ELEVATION TABLE			
DESCRIPTION	CONTOUR	ELEVATION (NAVD88)	ELEVATION (MLLW)
100-YEAR FLOODPLAIN	100 YR	14.0	17.98
MAX. ELEVATION OF LAND CAPABLE OF SUPPORTING TIDAL VEGETATION	CJL+1	6.4	10.38
CT COASTAL JURISDICTION LINE	CJL	5.4	9.38
HIGH TIDE LINE	HTL	5.2	9.18
MEAN HIGH WATER LINE	MHW	3.35	7.33
MEAN LOW WATER LINE	MLW	-3.72	0.26
MEAN LOWER LOW WATER LINE	MLLW	-3.98	0

SCALE:
SCALE IN FEET
0 40 80
SCALE 1"=80'

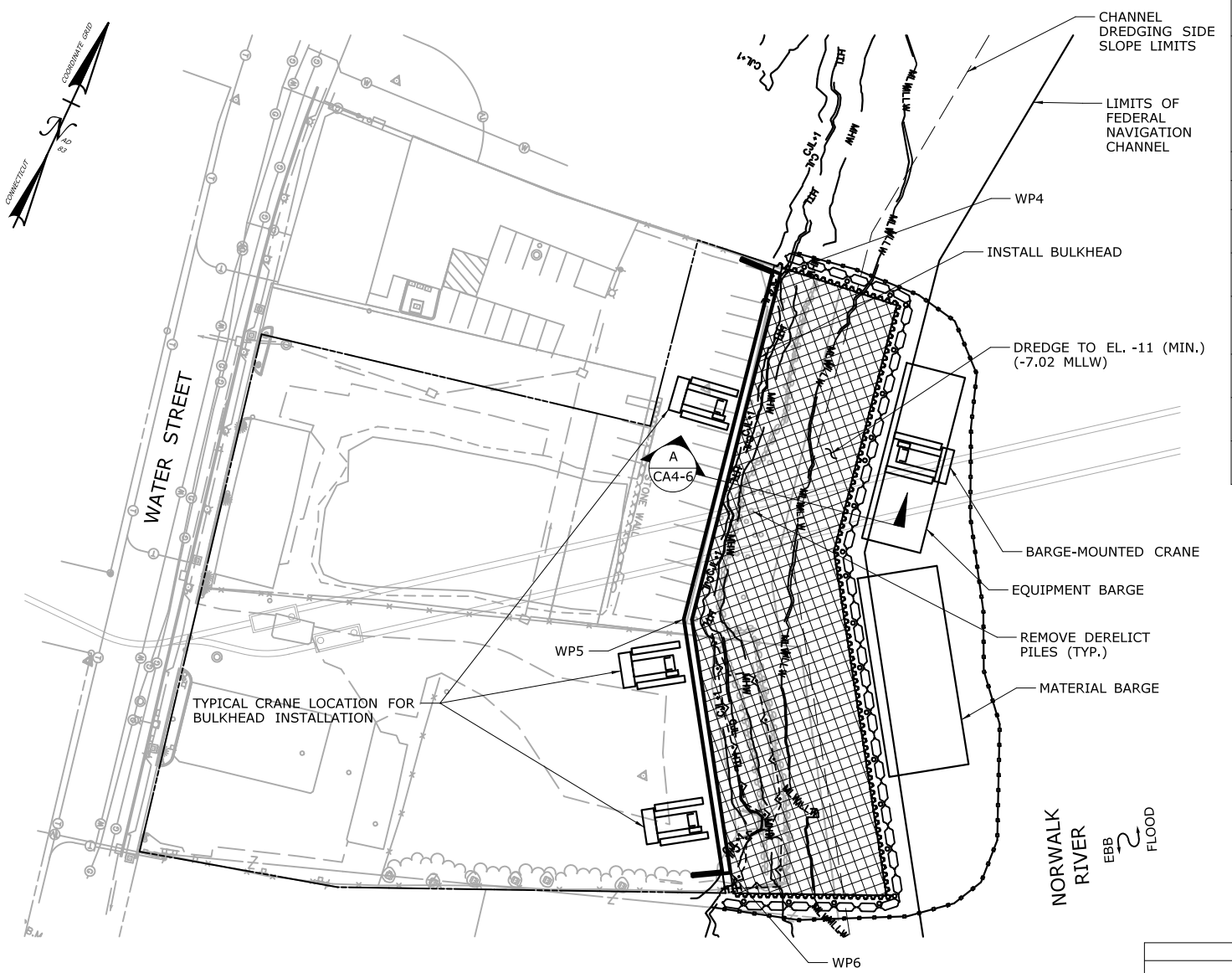
DRAWN: T. ADINOLFI
CHECKED: V. ROBBINS
APPROVED: C. BROWN

SIGNATURE BLOCK:

STATE OF CONNECTICUT
DEPARTMENT OF TRANSPORTATION

PROJECT TITLE:
WALK BRIDGE REPLACEMENT OVER THE NORWALK RIVER BRIDGE NO. 04288R/MP 41.5

TOWN: **NORWALK**
PROJECT NO.: **0301-0176**
DRAWING TITLE: **ACTIVITY 4 MARINE STAGING YARD (SHEET 1 OF 6)**
DATE: **REV 05-19-21**
DRAWING NO.: **CA4-1**



PLAN

WORKING POINT	NORTHING	EASTING
WP4	597,195	816,650
WP5	597,020	816,683
WP6	596,914	816,753

CONSTRUCTION SEQUENCE

THE SHEETS IN THIS SUBSET DESCRIBE THE SEQUENCE OF ACTIVITIES RELATED TO TEMPORARY AND PERMANENT IMPROVEMENTS AT THE MARINE STAGING YARD WITH REFERENCES TO RELATED ACTIVITIES THROUGHOUT. FOR DETAILS OF RELATED ACTIVITIES, REFER TO THE SUBSETS NOTED IN PARENTHESES. WORK DEPICTED ON THIS SHEET IS IDENTIFIED WITH AN "X" IN THE TABLE.

	WORK DESCRIPTION
	FILL SITE FOR ACCESS.
	MOVE BARGES INTO PLACE AND SET TURBIDITY CURTAIN.
	INSTALL MARINE ENCLOSURE AND TEMPORARY FENDER SYSTEM.
X	INSTALL BULKHEAD, REMOVE DERELICT PILES AND DREDGE TO EL. -11 (MIN.) (-7.02 MLLW) (SEE ACTIVITY 17).
	REMOVE MARINE ENCLOSURE AND TEMPORARY FENDER SYSTEM. DRIVE PILES FOR DOCKS.
	REMOVE TURBIDITY CURTAIN. SET DOCKS AND GANGWAYS.
	SET TURBIDITY CURTAIN, REMOVE DOCKS, GANGWAYS AND PILES.

NOTES:

1. THIS ACTIVITY IS CONTAINED ENTIRELY WITHIN THE 100-YR FLOODPLAIN.
2. VERTICAL DATUM IS NAVD 88. ELEVATIONS RELATIVE TO MLLW TIDAL DATUM ARE SHOWN IN PARENTHESES.
3. SEE VESSEL BERTHING PLAN (DWG. GEN-9) FOR TYPICAL BARGE SIZES.
4. ALL PILES ARE ANTICIPATED TO BE 36" (MAX.) DIAMETER PIPE PILES.
5. TOP OF MARINE ENCLOSURE WILL BE INSTALLED TO ELEV. 6.2 (MIN.) (10.18 MLLW), 1 FOOT ABOVE HIGH TIDE LINE.
6. MARINE ENCLOSURE AND TEMPORARY FENDER SYSTEM WILL ONLY BE REQUIRED IF DREDGING OCCURS OUTSIDE THE MONTHS OF DECEMBER AND JANUARY.
7. LIMITS OF TEMPORARY FENDER SYSTEM AND TEMPORARY AIDS TO NAVIGATION (E.G., LIGHTING) WILL BE COORDINATED WITH THE USCG.

ELEVATION TABLE			
DESCRIPTION	CONTOUR	ELEVATION (NAVD88)	ELEVATION (MLLW)
100-YEAR FLOODPLAIN	100 YR	14.0	17.98
MAX. ELEVATION OF LAND CAPABLE OF SUPPORTING TIDAL VEGETATION	CJL+1	6.4	10.38
CT COASTAL JURISDICTION LINE	CJL	5.4	9.38
HIGH TIDE LINE	HTL	5.2	9.18
MEAN HIGH WATER LINE	MHW	3.35	7.33
MEAN LOW WATER LINE	MLW	-3.72	0.26
MEAN LOWER LOW WATER LINE	MLLW	-3.98	0

SCALE:
SCALE IN FEET
0 40 80
SCALE 1"=80'

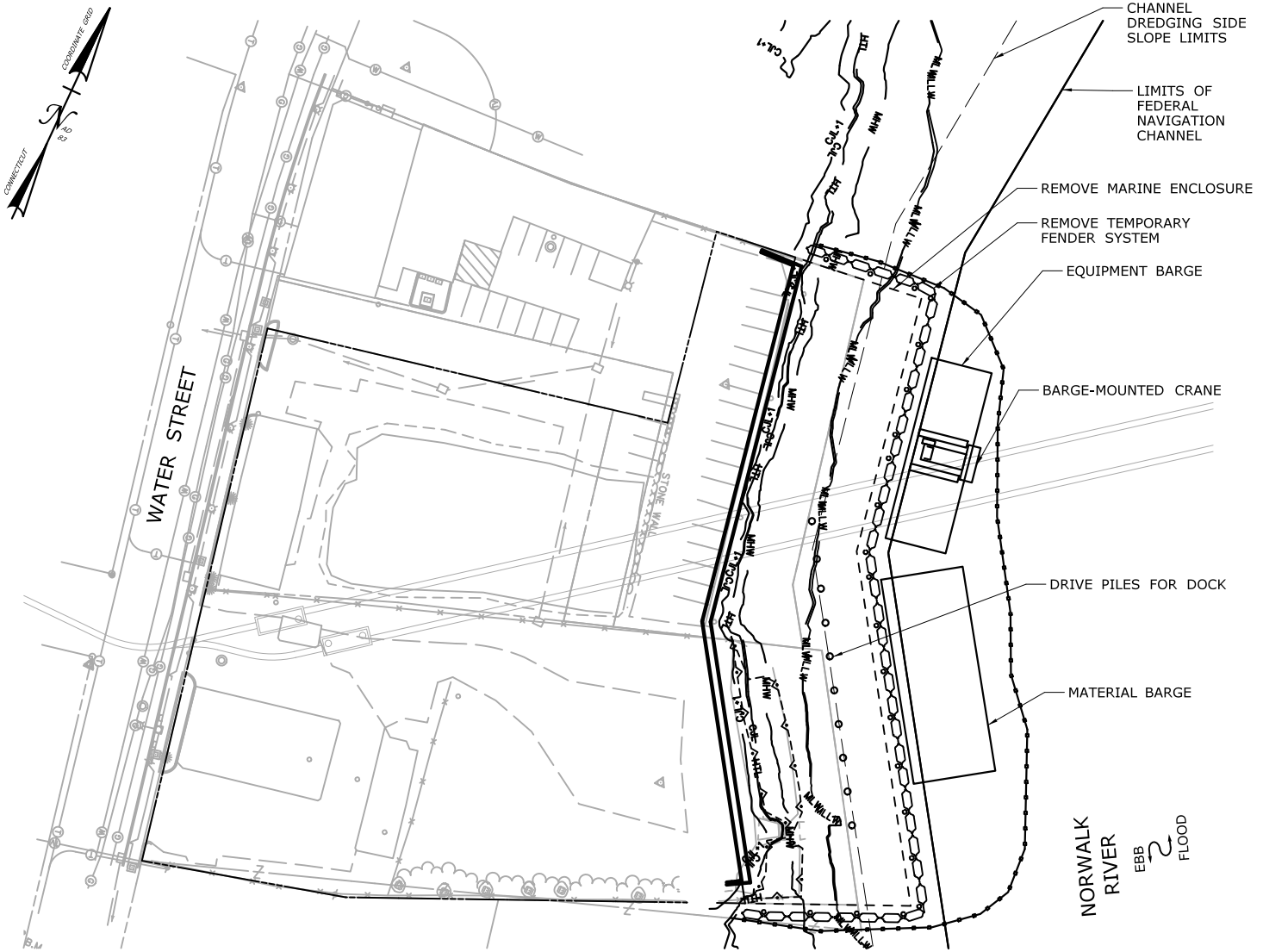
DRAWN: T. ADINOLFI
CHECKED: V. ROBBINS
APPROVED: C. BROWN

SIGNATURE BLOCK:

STATE OF CONNECTICUT
DEPARTMENT OF TRANSPORTATION

PROJECT TITLE:
WALK BRIDGE REPLACEMENT OVER THE NORWALK RIVER BRIDGE NO. 04288R/MP 41.5

TOWN: **NORWALK**
PROJECT NO.: **0301-0176**
DRAWING TITLE: **ACTIVITY 4 MARINE STAGING YARD (SHEET 2 OF 6)**
DATE: **REV 02-23-21**
DRAWING NO.: **CA4-2**



PLAN

CONSTRUCTION SEQUENCE

THE SHEETS IN THIS SUBSET DESCRIBE THE SEQUENCE OF ACTIVITIES RELATED TO TEMPORARY AND PERMANENT IMPROVEMENTS AT THE MARINE STAGING YARD WITH REFERENCES TO RELATED ACTIVITIES THROUGHOUT. FOR DETAILS OF RELATED ACTIVITIES, REFER TO THE SUBSETS NOTED IN PARENTHESES. WORK DEPICTED ON THIS SHEET IS IDENTIFIED WITH AN "X" IN THE TABLE.

	WORK DESCRIPTION
	FILL SITE FOR ACCESS.
	MOVE BARGES INTO PLACE AND SET TURBIDITY CURTAIN.
	INSTALL MARINE ENCLOSURE AND TEMPORARY FENDER SYSTEM.
	INSTALL BULKHEAD, REMOVE DERELICT PILES AND DREDGE TO EL. -11 (MIN.) (-7.02 MLLW) (SEE ACTIVITY 17).
X	REMOVE MARINE ENCLOSURE AND TEMPORARY FENDER SYSTEM. DRIVE PILES FOR DOCKS.
	REMOVE TURBIDITY CURTAIN. SET DOCKS AND GANGWAYS.
	SET TURBIDITY CURTAIN, REMOVE DOCKS, GANGWAYS AND PILES.

NOTES:

1. THIS ACTIVITY IS CONTAINED ENTIRELY WITHIN THE 100-YR FLOODPLAIN.
2. VERTICAL DATUM IS NAVD 88. ELEVATIONS RELATIVE TO MLLW TIDAL DATUM ARE SHOWN IN PARENTHESES.
3. SEE VESSEL BERTHING PLAN (DWG. GEN-9) FOR TYPICAL BARGE SIZES.
4. ALL PILES ARE ANTICIPATED TO BE 36" (MAX.) DIAMETER PIPE PILES.
5. MARINE ENCLOSURE AND TEMPORARY FENDER SYSTEM WILL ONLY BE REQUIRED IF DREDGING OCCURS OUTSIDE THE MONTHS OF DECEMBER AND JANUARY.

ELEVATION TABLE

DESCRIPTION	CONTOUR	ELEVATION (NAVD88)	ELEVATION (MLLW)
100-YEAR FLOODPLAIN	100 YR	14.0	17.98
MAX. ELEVATION OF LAND CAPABLE OF SUPPORTING TIDAL VEGETATION	CJL+1	6.4	10.38
CT COASTAL JURISDICTION LINE	CJL	5.4	9.38
HIGH TIDE LINE	HTL	5.2	9.18
MEAN HIGH WATER LINE	MHW	3.35	7.33
MEAN LOW WATER LINE	MLW	-3.72	0.26
MEAN LOWER LOW WATER LINE	MLLW	-3.98	0

SCALE:
SCALE IN FEET
0 40 80
SCALE 1"=80'

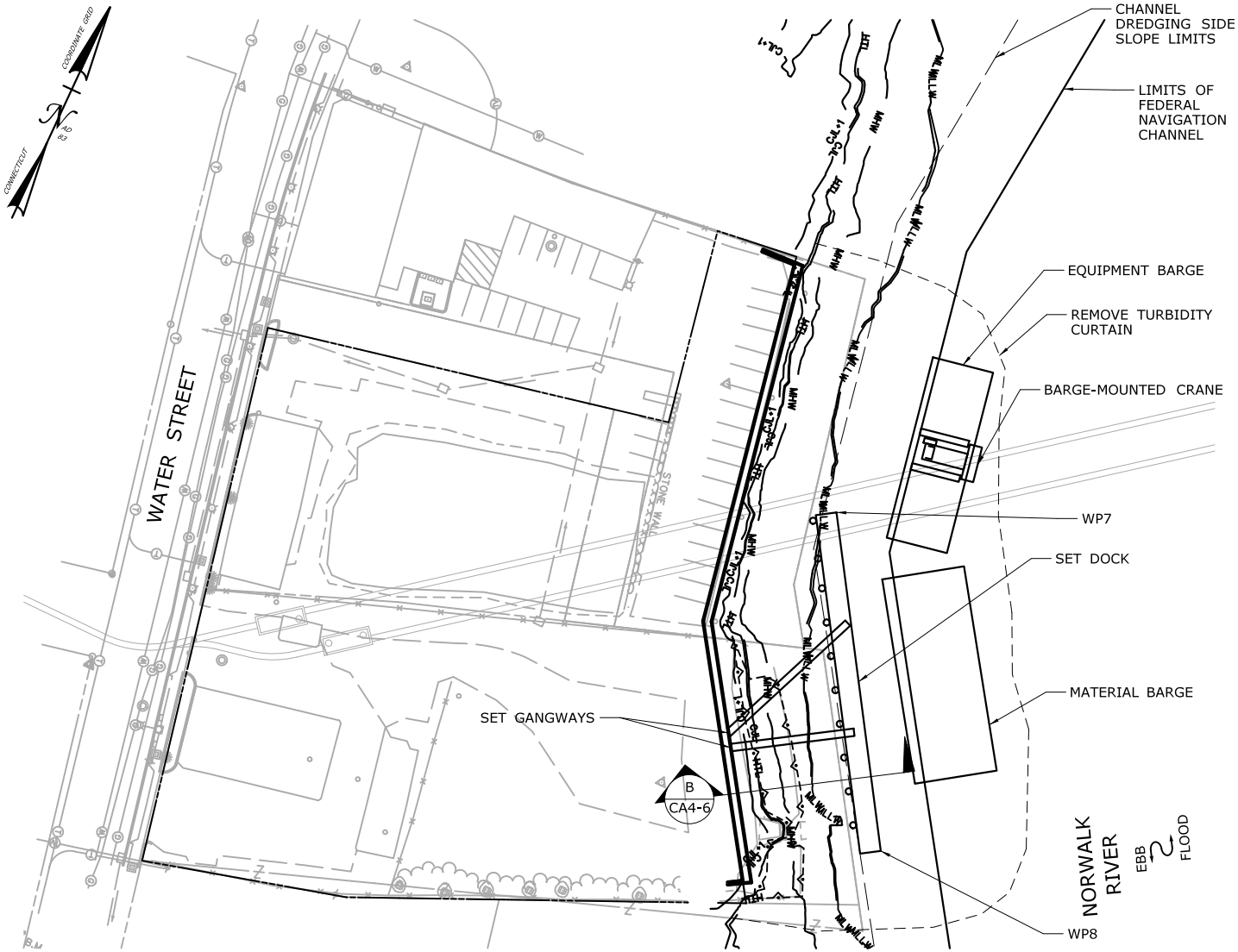
DRAWN: T. ADINOLFI
CHECKED: V. ROBBINS
APPROVED: C. BROWN

SIGNATURE BLOCK:

STATE OF CONNECTICUT
DEPARTMENT OF TRANSPORTATION

PROJECT TITLE:
WALK BRIDGE REPLACEMENT OVER THE NORWALK RIVER BRIDGE NO. 04288R/MP 41.5

TOWN: **NORWALK**
PROJECT NO.: **0301-0176**
DRAWING TITLE: **ACTIVITY 4 MARINE STAGING YARD (SHEET 3 OF 6)**
DATE: **REV 02-23-21**
DRAWING NO.: **CA4-3**



PLAN

WORKING POINT	NORTHING	EASTING
WP7	597,094	816,715
WP8	596,954	816,803

CONSTRUCTION SEQUENCE

THE SHEETS IN THIS SUBSET DESCRIBE THE SEQUENCE OF ACTIVITIES RELATED TO TEMPORARY AND PERMANENT IMPROVEMENTS AT THE MARINE STAGING YARD WITH REFERENCES TO RELATED ACTIVITIES THROUGHOUT. FOR DETAILS OF RELATED ACTIVITIES, REFER TO THE SUBSETS NOTED IN PARENTHESES. WORK DEPICTED ON THIS SHEET IS IDENTIFIED WITH AN "X" IN THE TABLE.

	WORK DESCRIPTION
	FILL SITE FOR ACCESS.
	MOVE BARGES INTO PLACE AND SET TURBIDITY CURTAIN.
	INSTALL MARINE ENCLOSURE AND TEMPORARY FENDER SYSTEM.
	INSTALL BULKHEAD, REMOVE DERELICT PILES, AND DREDGE TO EL. -11 (MIN.) (-7.02 MLLW) (SEE ACTIVITY 17).
	REMOVE MARINE ENCLOSURE AND TEMPORARY FENDER SYSTEM. DRIVE PILES FOR DOCKS.
X	REMOVE TURBIDITY CURTAIN. SET DOCKS AND GANGWAYS.
	SET TURBIDITY CURTAIN, REMOVE DOCKS, GANGWAYS AND PILES.

NOTES:

1. THIS ACTIVITY IS CONTAINED ENTIRELY WITHIN THE 100-YR FLOODPLAIN.
2. VERTICAL DATUM IS NAVD 88. ELEVATIONS RELATIVE TO MLLW TIDAL DATUM ARE SHOWN IN PARENTHESES.
3. SEE VESSEL BERTHING PLAN (DWG. GEN-9) FOR TYPICAL BARGE SIZES.
4. TEMPORARY AIDS TO NAVIGATION (E.G., LIGHTING) WILL BE COORDINATED WITH THE USCG.

ELEVATION TABLE			
DESCRIPTION	CONTOUR	ELEVATION (NAVD88)	ELEVATION (MLLW)
100-YEAR FLOODPLAIN	100 YR	14.0	17.98
MAX. ELEVATION OF LAND CAPABLE OF SUPPORTING TIDAL VEGETATION	CJL+1	6.4	10.38
CT COASTAL JURISDICTION LINE	CJL	5.4	9.38
HIGH TIDE LINE	HTL	5.2	9.18
MEAN HIGH WATER LINE	MHW	3.35	7.33
MEAN LOW WATER LINE	MLW	-3.72	0.26
MEAN LOWER LOW WATER LINE	MLLW	-3.98	0

SCALE:
SCALE IN FEET
0 40 80
SCALE 1"=80'

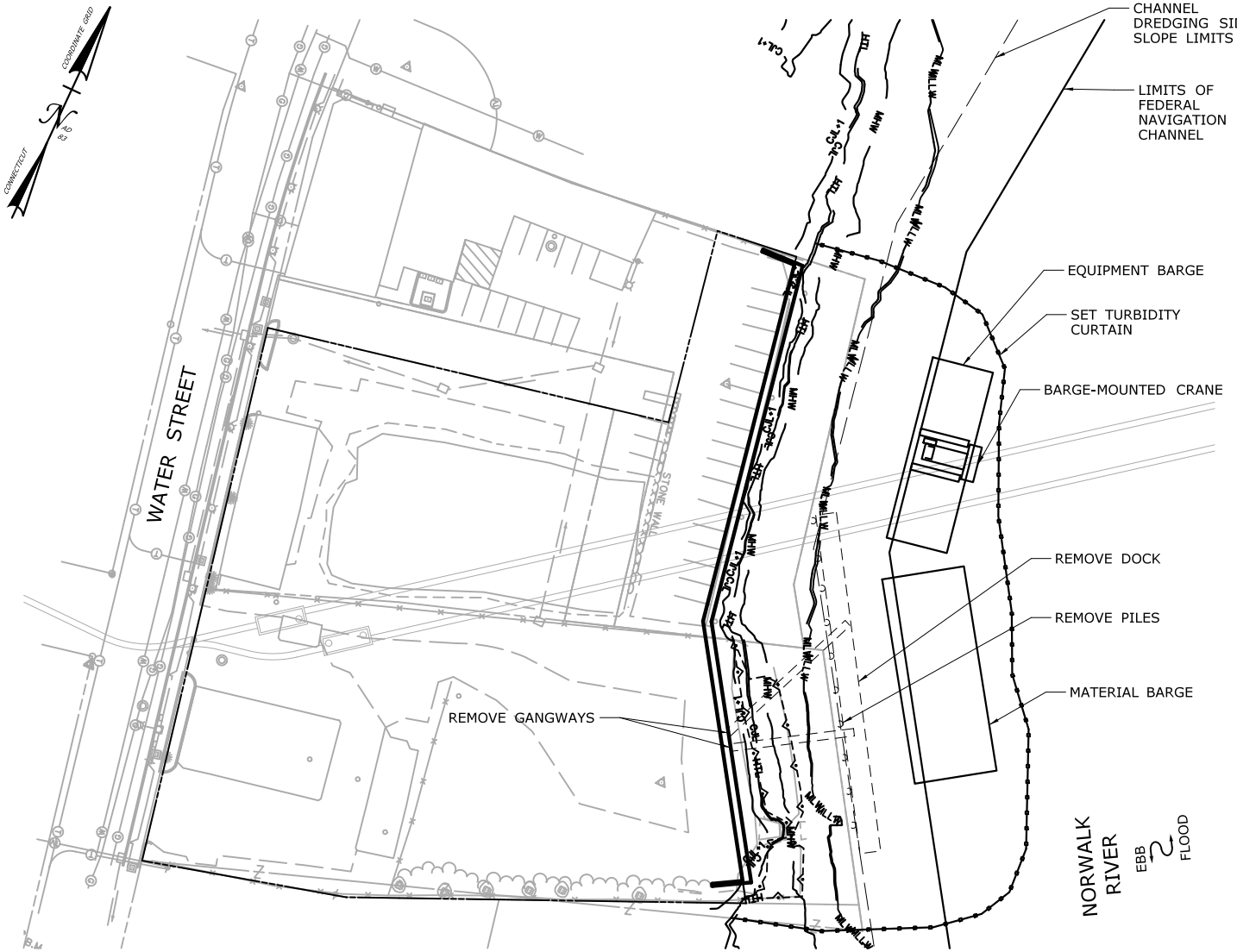
DRAWN: T. ADINOLFI
CHECKED: V. ROBBINS
APPROVED: C. BROWN

SIGNATURE BLOCK:

STATE OF CONNECTICUT
DEPARTMENT OF TRANSPORTATION

PROJECT TITLE:
WALK BRIDGE REPLACEMENT OVER THE NORWALK RIVER BRIDGE NO. 04288R/MP 41.5

TOWN: **NORWALK**
PROJECT NO.: **0301-0176**
DRAWING TITLE: **ACTIVITY 4 MARINE STAGING YARD (SHEET 4 OF 6)**
DATE: **REV 02-23-21**
DRAWING NO.: **CA4-4**



PLAN

CONSTRUCTION SEQUENCE

THE SHEETS IN THIS SUBSET DESCRIBE THE SEQUENCE OF ACTIVITIES RELATED TO TEMPORARY AND PERMANENT IMPROVEMENTS AT THE MARINE STAGING YARD WITH REFERENCES TO RELATED ACTIVITIES THROUGHOUT. FOR DETAILS OF RELATED ACTIVITIES, REFER TO THE SUBSETS NOTED IN PARENTHESES. WORK DEPICTED ON THIS SHEET IS IDENTIFIED WITH AN "X" IN THE TABLE.

	WORK DESCRIPTION
	FILL SITE FOR ACCESS.
	MOVE BARGES INTO PLACE AND SET TURBIDITY CURTAIN.
	INSTALL MARINE ENCLOSURE AND TEMPORARY FENDER SYSTEM.
	INSTALL BULKHEAD, REMOVE DERELICT PILES, AND DREDGE TO EL. -11 (MIN.) (-7.02 MLLW) (SEE ACTIVITY 17).
	REMOVE MARINE ENCLOSURE AND TEMPORARY FENDER SYSTEM. DRIVE PILES FOR DOCKS.
	REMOVE TURBIDITY CURTAIN. SET DOCKS AND GANGWAYS.
X	SET TURBIDITY CURTAIN, REMOVE DOCKS, GANGWAYS AND PILES.

NOTES:

1. THIS ACTIVITY IS CONTAINED ENTIRELY WITHIN THE 100-YR FLOODPLAIN.
2. VERTICAL DATUM IS NAVD 88. ELEVATIONS RELATIVE TO MLLW TIDAL DATUM ARE SHOWN IN PARENTHESES.
3. SEE VESSEL BERTHING PLAN (DWG. GEN-9) FOR TYPICAL BARGE SIZES.
4. ALL PILES ARE ANTICIPATED TO BE 36" (MAX.) DIAMETER PIPE PILES.

ELEVATION TABLE

DESCRIPTION	CONTOUR	ELEVATION (NAVD88)	ELEVATION (MLLW)
100-YEAR FLOODPLAIN	100 YR	14.0	17.98
MAX. ELEVATION OF LAND CAPABLE OF SUPPORTING TIDAL VEGETATION	CJL+1	6.4	10.38
CT COASTAL JURISDICTION LINE	CJL	5.4	9.38
HIGH TIDE LINE	HTL	5.2	9.18
MEAN HIGH WATER LINE	MHW	3.35	7.33
MEAN LOW WATER LINE	MLW	-3.72	0.26
MEAN LOWER LOW WATER LINE	MLLW	-3.98	0

SCALE:
SCALE IN FEET
0 40 80
SCALE 1"=80'

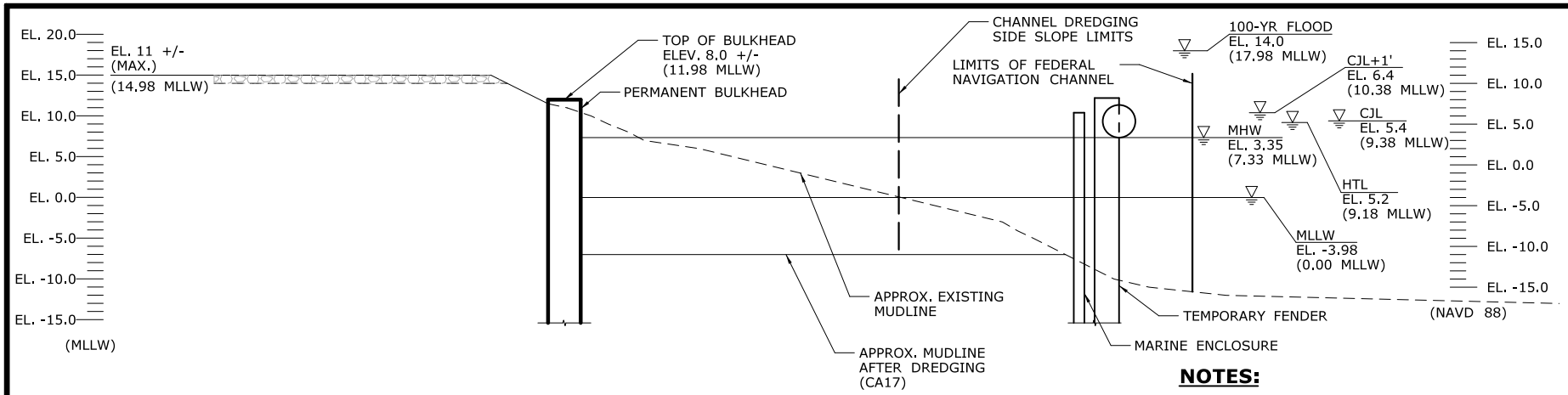
DRAWN: T. ADINOLFI
CHECKED: V. ROBBINS
APPROVED: C. BROWN

SIGNATURE BLOCK:

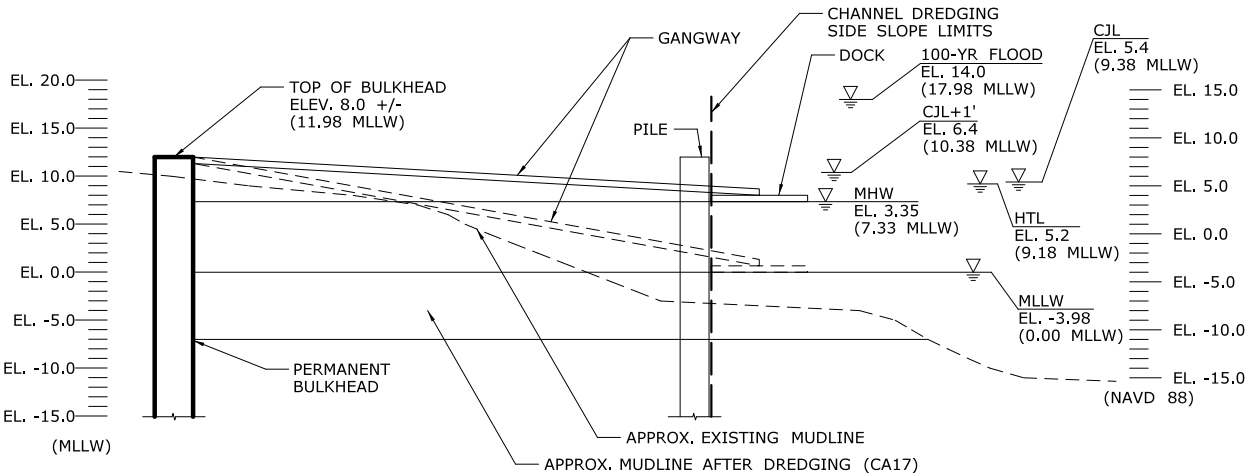
STATE OF CONNECTICUT
DEPARTMENT OF TRANSPORTATION

PROJECT TITLE:
WALK BRIDGE REPLACEMENT OVER THE NORWALK RIVER BRIDGE NO. 04288R/MP 41.5

TOWN: **NORWALK**
PROJECT NO.: **0301-0176**
DRAWING TITLE: **ACTIVITY 4 MARINE STAGING YARD (SHEET 5 OF 6)**
DATE: **REV 02-23-21**
DRAWING NO.: **CA4-5**



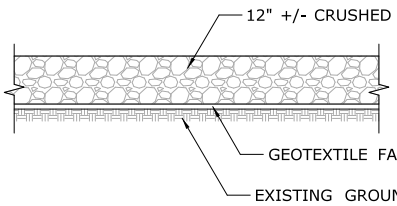
SECTION A CA4-2



SECTION B CA4-4

NOTES:

1. THIS ACTIVITY IS CONTAINED ENTIRELY WITHIN THE 100-YR FLOODPLAIN.
2. VERTICAL DATUM IS NAVD 88. ELEVATIONS RELATIVE TO MLLW TIDAL DATUM ARE SHOWN IN PARENTHESES.
3. TOP OF MARINE ENCLOSURE WILL BE INSTALLED TO ELEV. 6.2 (MIN.) (10.18 MLLW), 1 FOOT ABOVE HIGH TIDE LINE.
4. MARINE ENCLOSURE WILL ONLY BE REQUIRED IF DREDGING OCCURS OUTSIDE THE MONTHS OF DECEMBER AND JANUARY.
5. SITE TO BE RESTORED UPON COMPLETION. PERVIOUS SURFACES WILL BE TREATED WITH APPROPRIATE FERTILIZERS AND MULCH IN ACCORDANCE WITH THE CTDEEP GUIDELINES FOR SOIL EROSION AND SEDIMENT CONTROL.
6. SEE ACTIVITY 17 FOR COMPLETE DREDGING LIMITS.



TYPICAL FILL SECTION

NOT TO SCALE

ELEVATION TABLE			
DESCRIPTION	CONTOUR	ELEVATION (NAVD88)	ELEVATION (MLLW)
100-YEAR FLOODPLAIN	100 YR	14.0	17.98
MAX. ELEVATION OF LAND CAPABLE OF SUPPORTING TIDAL VEGETATION	CJL+1	6.4	10.38
CT COASTAL JURISDICTION LINE	CJL	5.4	9.38
HIGH TIDE LINE	HTL	5.2	9.18
MEAN HIGH WATER LINE	MHW	3.35	7.33
MEAN LOW WATER LINE	MLW	-3.72	0.26
MEAN LOWER LOW WATER LINE	MLLW	-3.98	0

SCALE: SCALE IN FEET 0 10 20 SCALE 1"=20'

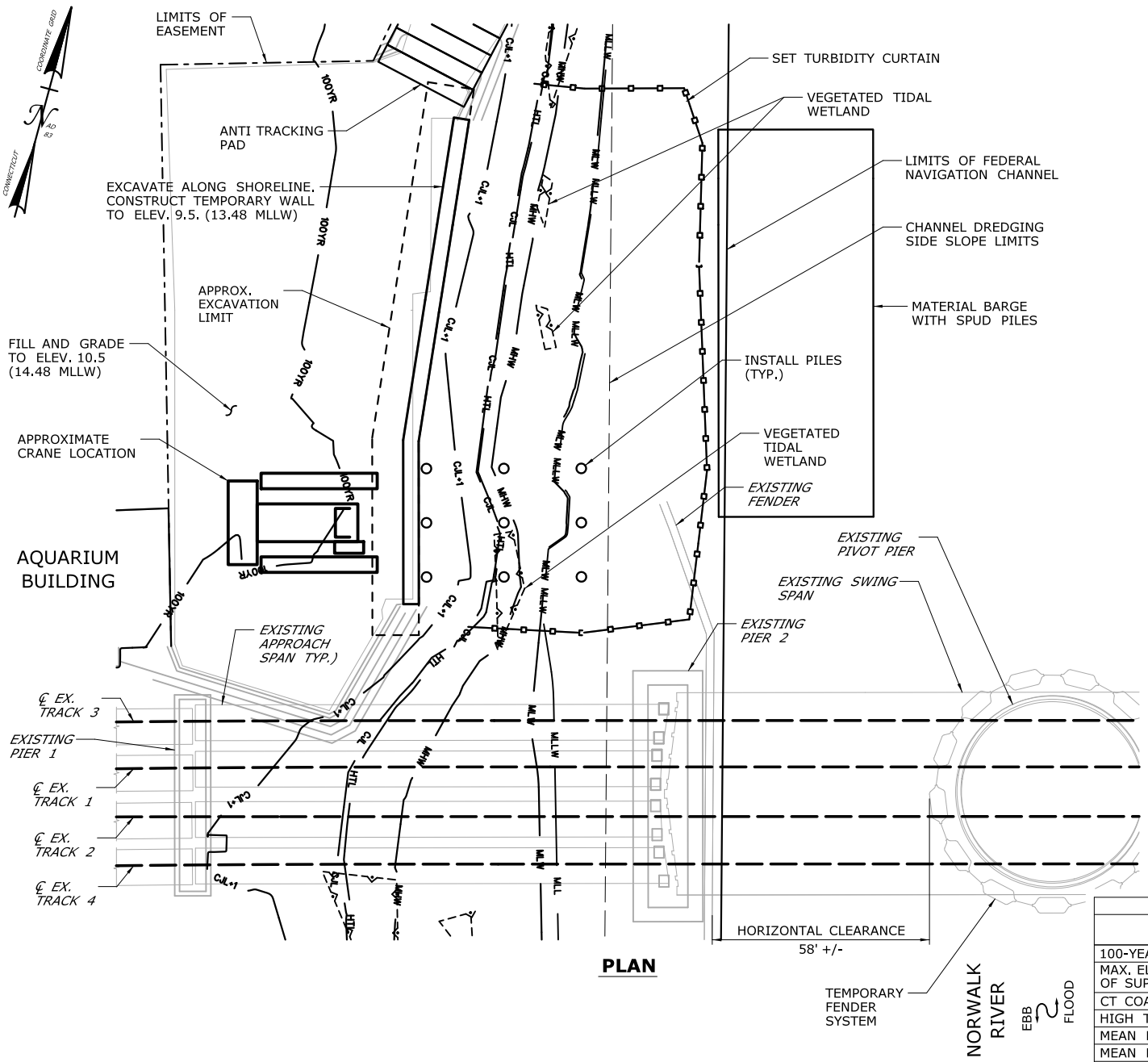
DRAWN: T. ADINOLFI
CHECKED: V. ROBBINS
APPROVED: C. BROWN

SIGNATURE BLOCK:

STATE OF CONNECTICUT
DEPARTMENT OF TRANSPORTATION

PROJECT TITLE:
WALK BRIDGE REPLACEMENT OVER THE NORWALK RIVER BRIDGE NO. 04288R/MP 41.5

TOWN: **NORWALK**
PROJECT NO.: **0301-0176**
DRAWING TITLE: **ACTIVITY 4 MARINE STAGING YARD (SHEET 6 OF 6)**
DATE: **REV 02-23-21**
DRAWING NO.: **CA4-6**



PLAN

CONSTRUCTION SEQUENCE

THE SHEETS IN THIS SUBSET DESCRIBE THE SEQUENCE OF ACTIVITIES REQUIRED TO BUILD THE NORTHWEST TRESTLE WITH REFERENCES TO RELATED ACTIVITIES THROUGHOUT. FOR DETAILS OF RELATED ACTIVITIES, REFER TO THE SUBSETS NOTED IN PARENTHESES. WORK DEPICTED ON THIS SHEET IS IDENTIFIED WITH AN "X" IN THE TABLE.

	WORK DESCRIPTION
X	SET TURBIDITY CURTAIN. EXCAVATE ALONG SHORELINE.
X	CONSTRUCT TEMPORARY WALL TO SUPPORT EDGE OF PLATFORM.
X	INSTALL PILES TO SUPPORT FIRST SECTION OF TRESTLE PLATFORM.
	CONSTRUCT CAP BEAMS AND PLATFORM FOR FIRST SECTION OF TRESTLE.
	INSTALL REMAINING PILES, CONSTRUCT CAP BEAMS, AND CONSTRUCT PLATFORM INTERMITTENTLY TO COMPLETE THE PLATFORM.
	INSTALL MOORING PILES AND TEMPORARY FENDER SYSTEM.
	SET TURBIDITY CURTAIN. REMOVE TEMPORARY FENDER SYSTEM, MOORING PILES, AND TRESTLE IN REVERSE ORDER FROM INSTALLATION.
	REMOVE REMAINDER OF MARINE ENCLOSURE FROM PROPOSED PIER 2.
	REMOVE TEMPORARY WALL. RESTORE SHORELINE TO PRECONSTRUCTION CONDITIONS.

NOTES:

1. SPUD PILES, PLATFORM SUPPORT PILES, AND MOORING PILES ARE ANTICIPATED TO BE 36" (MAX.) DIAMETER PIPE PILES.
2. VERTICAL DATUM IS NAVD 88. ELEVATIONS RELATIVE TO MLLW TIDAL DATUM ARE SHOWN IN PARENTHESES.
3. SEE VESSEL BERTHING PLAN (DWG. GEN-9) FOR TYPICAL BARGE SIZES.

ELEVATION TABLE

DESCRIPTION	CONTOUR	ELEVATION (NAVD88)	ELEVATION (MLLW)
100-YEAR FLOODPLAIN	100 YR	10.0	13.98
MAX. ELEVATION OF LAND CAPABLE OF SUPPORTING TIDAL VEGETATION	CJL+1	6.4	10.38
CT COASTAL JURISDICTION LINE	CJL	5.4	9.38
HIGH TIDE LINE	HTL	5.2	9.18
MEAN HIGH WATER LINE	MHW	3.35	7.33
MEAN LOW WATER LINE	MLW	-3.72	0.26
MEAN LOWER LOW WATER LINE	MLLW	-3.98	0

SCALE: SCALE IN FEET 0 20 40 SCALE 1"=40'

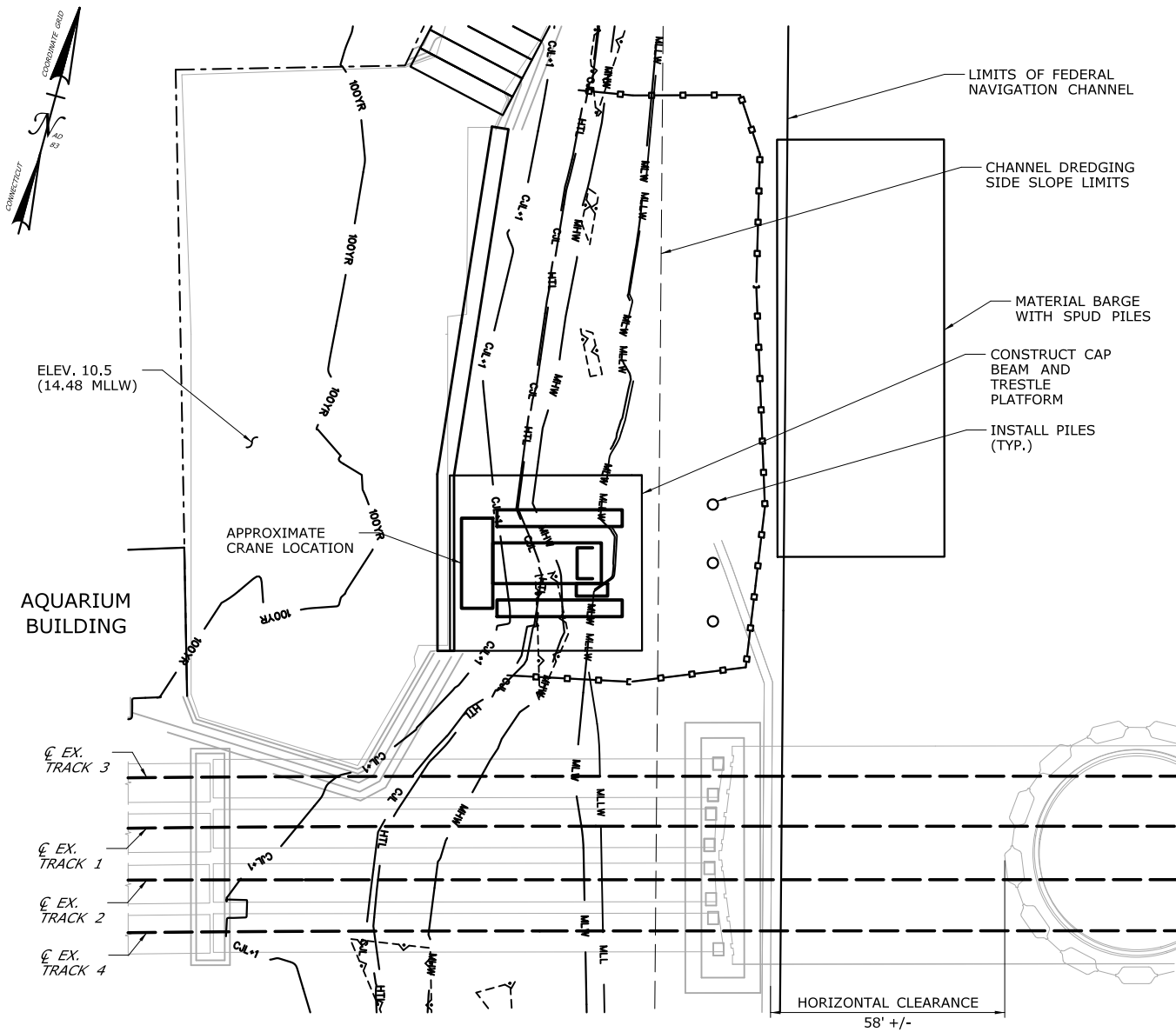
DRAWN: T. ADINOLFI
CHECKED: V. ROBBINS
APPROVED: C. BROWN

SIGNATURE BLOCK:

STATE OF CONNECTICUT
DEPARTMENT OF TRANSPORTATION

PROJECT TITLE:
WALK BRIDGE REPLACEMENT OVER THE NORWALK RIVER BRIDGE NO. 04288R/MP 41.5

TOWN: **NORWALK**
PROJECT NO.: **0301-0176**
DRAWING TITLE: **ACTIVITY 5 NORTHWEST TRESTLE (SHEET 1 OF 5)**
DATE: **REV 7-31-20**
DRAWING NO.: **CA5-1**



PLAN

NORWALK RIVER

EBB ↓ FLOOD

CONSTRUCTION SEQUENCE

THE SHEETS IN THIS SUBSET DESCRIBE THE SEQUENCE OF ACTIVITIES REQUIRED TO BUILD THE NORTHWEST TRESTLE WITH REFERENCES TO RELATED ACTIVITIES THROUGHOUT. FOR DETAILS OF RELATED ACTIVITIES, REFER TO THE SUBSETS NOTED IN PARENTHESES. WORK DEPICTED ON THIS SHEET IS IDENTIFIED WITH AN "X" IN THE TABLE.

	WORK DESCRIPTION
	SET TURBIDITY CURTAIN. EXCAVATE ALONG SHORELINE.
	CONSTRUCT TEMPORARY WALL TO SUPPORT EDGE OF PLATFORM.
	INSTALL PILES TO SUPPORT FIRST SECTION OF TRESTLE PLATFORM.
X	CONSTRUCT CAP BEAMS AND PLATFORM FOR FIRST SECTION OF TRESTLE.
X	INSTALL REMAINING PILES, CONSTRUCT CAP BEAMS, AND CONSTRUCT PLATFORM INTERMITTENTLY TO COMPLETE THE PLATFORM.
	INSTALL MOORING PILES AND TEMPORARY FENDER SYSTEM.
	SET TURBIDITY CURTAIN. REMOVE TEMPORARY FENDER SYSTEM, MOORING PILES, AND TRESTLE IN REVERSE ORDER FROM INSTALLATION.
	REMOVE REMAINDER OF MARINE ENCLOSURE FROM PROPOSED PIER 2.
	REMOVE TEMPORARY WALL. RESTORE SHORELINE TO PRECONSTRUCTION CONDITIONS.

NOTES:

1. SPUD PILES, PLATFORM SUPPORT PILES, AND MOORING PILES ARE ANTICIPATED TO BE 36" (MAX.) DIAMETER PIPE PILES.
2. VERTICAL DATUM IS NAVD 88. ELEVATIONS RELATIVE TO MLLW TIDAL DATUM ARE SHOWN IN PARENTHESES.
3. TOP OF PLATFORM IS ELEV. 10.5 (14.48 MLLW).
4. SEE VESSEL BERTHING PLAN (DWG. GEN-9) FOR TYPICAL BARGE SIZES.

ELEVATION TABLE			
DESCRIPTION	CONTOUR	ELEVATION (NAVD88)	ELEVATION (MLLW)
100-YEAR FLOODPLAIN	100 YR	10.0	13.98
MAX. ELEVATION OF LAND CAPABLE OF SUPPORTING TIDAL VEGETATION	CJL+1	6.4	10.38
CT COASTAL JURISDICTION LINE	CJL	5.4	9.38
HIGH TIDE LINE	HTL	5.2	9.18
MEAN HIGH WATER LINE	MHW	3.35	7.33
MEAN LOW WATER LINE	MLW	-3.72	0.26
MEAN LOWER LOW WATER LINE	MLLW	-3.98	0

SCALE: SCALE IN FEET 0 20 40 SCALE 1"=40'

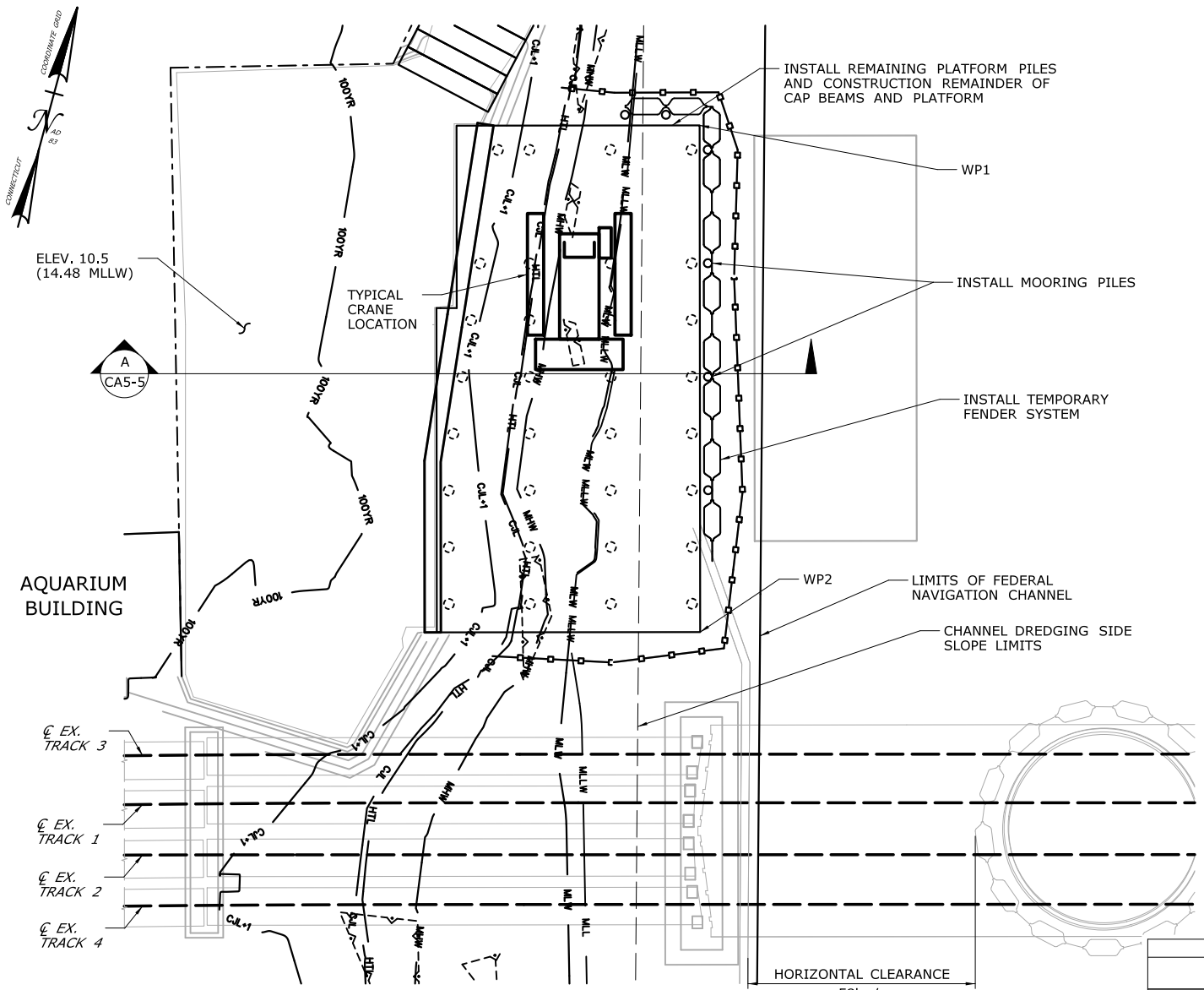
DRAWN: T. ADINOLFI
CHECKED: V. ROBBINS
APPROVED: C. BROWN

SIGNATURE BLOCK:

STATE OF CONNECTICUT
DEPARTMENT OF TRANSPORTATION

PROJECT TITLE:
WALK BRIDGE REPLACEMENT OVER THE NORWALK RIVER BRIDGE NO. 04288R/MP 41.5

TOWN: **NORWALK**
PROJECT NO.: **0301-0176**
DRAWING TITLE: **ACTIVITY 5 NORTHWEST TRESTLE (SHEET 2 OF 5)**
DATE: **REV 7-31-20**
DRAWING NO.: **CA5-2**



PLAN

WORKING POINT	NORTHING	EASTING
WP1	598,177	816,499
WP2	598,057	816,532

NORWALK RIVER
EBB
FLOOD

CONSTRUCTION SEQUENCE

THE SHEETS IN THIS SUBSET DESCRIBE THE SEQUENCE OF ACTIVITIES REQUIRED TO BUILD THE NORTHWEST TRESTLE WITH REFERENCES TO RELATED ACTIVITIES THROUGHOUT. FOR DETAILS OF RELATED ACTIVITIES, REFER TO THE SUBSETS NOTED IN PARENTHESES. WORK DEPICTED ON THIS SHEET IS IDENTIFIED WITH AN "X" IN THE TABLE.

	WORK DESCRIPTION
	SET TURBIDITY CURTAIN. EXCAVATE ALONG SHORELINE.
	CONSTRUCT TEMPORARY WALL TO SUPPORT EDGE OF PLATFORM.
	INSTALL PILES TO SUPPORT FIRST SECTION OF TRESTLE PLATFORM.
	CONSTRUCT CAP BEAMS AND PLATFORM FOR FIRST SECTION OF TRESTLE.
X	INSTALL REMAINING PILES, CONSTRUCT CAP BEAMS, AND CONSTRUCT PLATFORM INTERMITTENTLY TO COMPLETE THE PLATFORM.
X	INSTALL MOORING PILES AND TEMPORARY FENDER SYSTEM.
	SET TURBIDITY CURTAIN. REMOVE TEMPORARY FENDER SYSTEM, MOORING PILES, AND TRESTLE IN REVERSE ORDER FROM INSTALLATION.
	REMOVE REMAINDER OF MARINE ENCLOSURE FROM PROPOSED PIER 2.
	REMOVE TEMPORARY WALL. RESTORE SHORELINE TO PRECONSTRUCTION CONDITIONS.

NOTES:

1. SPUD PILES, PLATFORM SUPPORT PILES, AND MOORING PILES ARE ANTICIPATED TO BE 36" (MAX.) DIAMETER PIPE PILES.
2. VERTICAL DATUM IS NAVD 88. ELEVATIONS TO MLLW TIDAL DATUM ARE SHOWN IN PARENTHESES.
3. TOP OF PLATFORM IS ELEV. 10.5 (14.48 MLLW).
4. LIMITS OF TEMPORARY FENDER SYSTEM AND TEMPORARY AIDS TO NAVIGATION (E.G., LIGHTING) WILL BE COORDINATED WITH USCG.
5. FOLLOWING COMPLETION OF ALL PILE-DRIVING ACTIVITIES AND THE TURBIDITY HAS SETTLED TO RE-CONSTRUCTION CONDITIONS, THE TURBIDITY CURTAIN WILL BE REMOVED.

ELEVATION TABLE			
DESCRIPTION	CONTOUR	ELEVATION (NAVD88)	ELEVATION (MLLW)
100-YEAR FLOODPLAIN	100 YR	10.0	13.98
MAX. ELEVATION OF LAND CAPABLE OF SUPPORTING TIDAL VEGETATION	CJL+1	6.4	10.38
CT COASTAL JURISDICTION LINE	CJL	5.4	9.38
HIGH TIDE LINE	HTL	5.2	9.18
MEAN HIGH WATER LINE	MHW	3.35	7.33
MEAN LOW WATER LINE	MLW	-3.72	0.26
MEAN LOWER LOW WATER LINE	MLLW	-3.98	0

SCALE:
SCALE IN FEET
0 20 40
SCALE 1"=40'

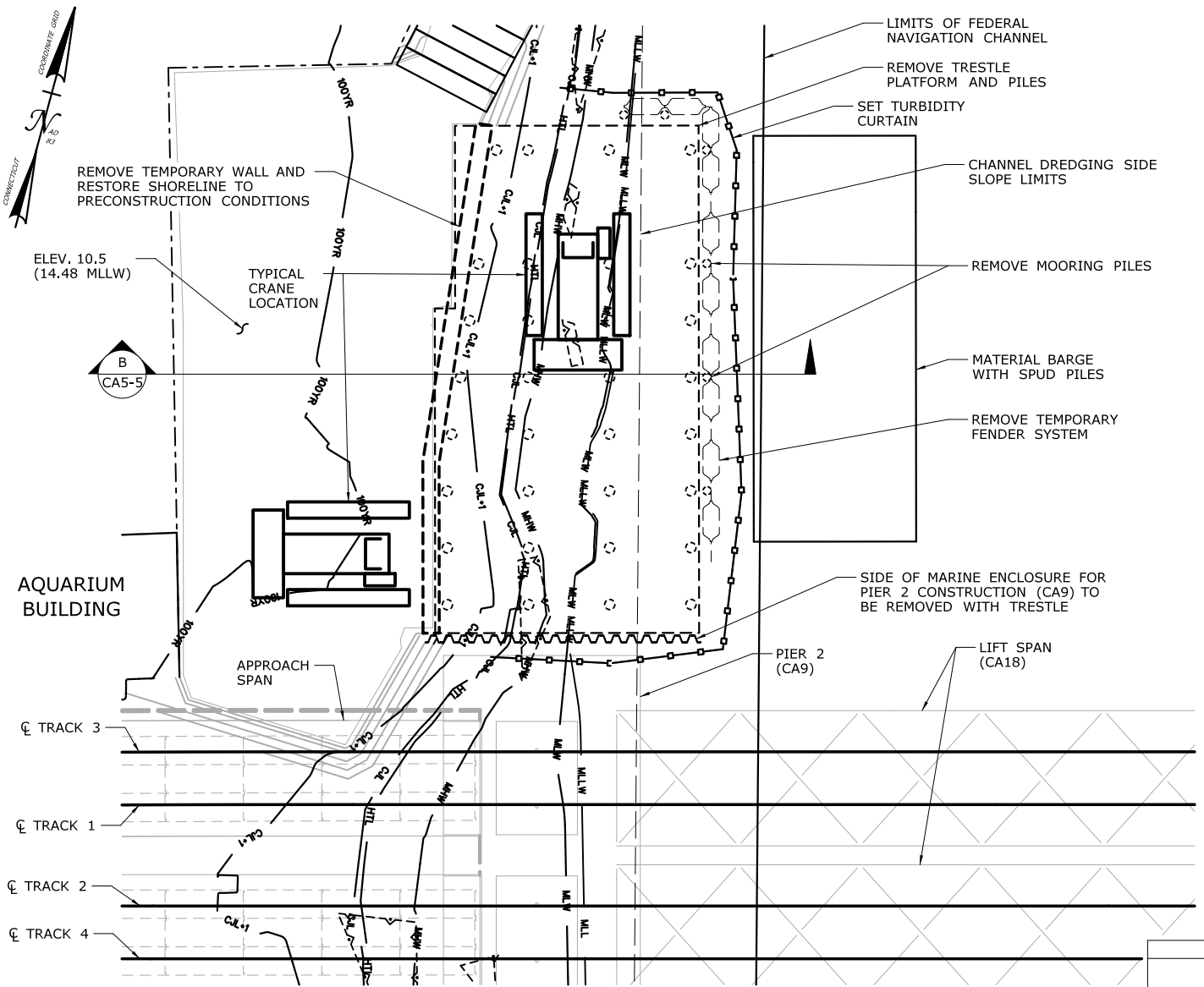
DRAWN: T. ADINOLFI
CHECKED: V. ROBBINS
APPROVED: C. BROWN

SIGNATURE BLOCK:

STATE OF CONNECTICUT
DEPARTMENT OF TRANSPORTATION

PROJECT TITLE:
WALK BRIDGE REPLACEMENT OVER THE NORWALK RIVER BRIDGE NO. 04288R/MP 41.5

TOWN: **NORWALK**
PROJECT NO.: **0301-0176**
DRAWING TITLE: **ACTIVITY 5 NORTHWEST TRESTLE (SHEET 3 OF 5)**
DATE: **REV 7-31-20**
DRAWING NO.: **CA5-3**



PLAN

CONSTRUCTION SEQUENCE

THE SHEETS IN THIS SUBSET DESCRIBE THE SEQUENCE OF ACTIVITIES REQUIRED TO BUILD THE NORTHWEST TRESTLE WITH REFERENCES TO RELATED ACTIVITIES THROUGHOUT. FOR DETAILS OF RELATED ACTIVITIES, REFER TO THE SUBSETS NOTED IN PARENTHESES. WORK DEPICTED ON THIS SHEET IS IDENTIFIED WITH AN "X" IN THE TABLE.

	WORK DESCRIPTION
	SET TURBIDITY CURTAIN. EXCAVATE ALONG SHORELINE.
	CONSTRUCT TEMPORARY WALL TO SUPPORT EDGE OF PLATFORM.
	INSTALL PILES TO SUPPORT FIRST SECTION OF TRESTLE PLATFORM.
	CONSTRUCT CAP BEAMS AND PLATFORM FOR FIRST SECTION OF TRESTLE.
	INSTALL REMAINING PILES, CONSTRUCT CAP BEAMS, AND CONSTRUCT PLATFORM INTERMITTENTLY TO COMPLETE THE PLATFORM.
	INSTALL MOORING PILES AND TEMPORARY FENDER SYSTEM.
X	SET TURBIDITY CURTAIN. REMOVE TEMPORARY FENDER SYSTEM, MOORING PILES, AND TRESTLE IN REVERSE ORDER FROM INSTALLATION.
X	REMOVE REMAINDER OF MARINE ENCLOSURE FROM PROPOSED PIER 2.
X	REMOVE TEMPORARY WALL, RESTORE SHORELINE TO PRECONSTRUCTION CONDITIONS.

NOTES:

1. SPUD PILES, PLATFORM SUPPORT PILES, AND MOORING PILES ARE ANTICIPATED TO BE 36" (MAX.) DIAMETER PIPE PILES.
2. VERTICAL DATUM IS NAVD 88. ELEVATIONS RELATIVE TO MLLW TIDAL ARE SHOWN IN PARENTHESES.
3. TOP OF PLATFORM IS ELEV. 10.5 (14.48 MLLW).
4. SEE VESSEL BERTHING PLAN (DWG. GEN-9) FOR TYPICAL BARGE SIZES.
5. SHORELINE RESTORATION TO MATCH EXISTING TREATMENT, SIDE-SLOPE, AND ELEVATION BASED ON PRE-CONSTRUCTION CONDITIONS AND ADJACENT SHORELINE NOT DISTURBED BY CONSTRUCTION ACTIVITY.

ELEVATION TABLE			
DESCRIPTION	CONTOUR	ELEVATION (NAVD88)	ELEVATION (MLLW)
100-YEAR FLOODPLAIN	100 YR	10.0	13.98
MAX. ELEVATION OF LAND CAPABLE OF SUPPORTING TIDAL VEGETATION	CJL+1	6.4	10.38
CT COASTAL JURISDICTION LINE	CJL	5.4	9.38
HIGH TIDE LINE	HTL	5.2	9.18
MEAN HIGH WATER LINE	MHW	3.35	7.33
MEAN LOW WATER LINE	MLW	-3.72	0.26
MEAN LOWER LOW WATER LINE	MLLW	-3.98	0

SCALE: SCALE IN FEET 0 20 40 SCALE 1"=40'

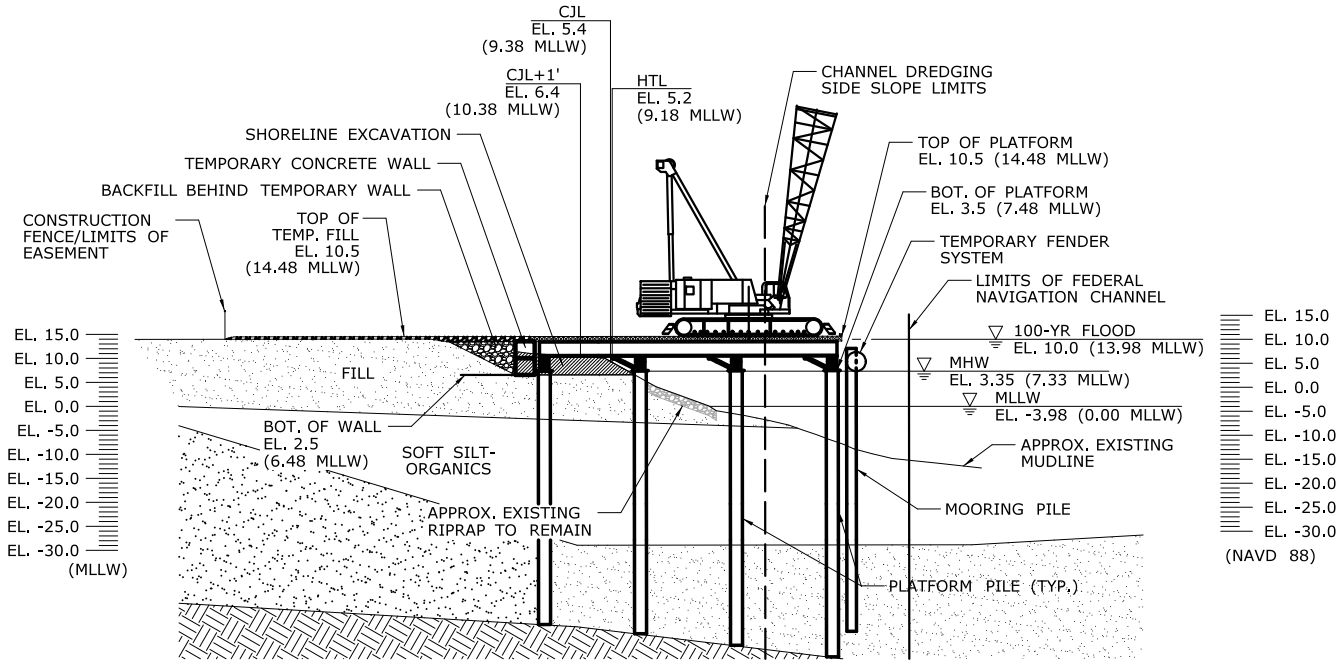
DRAWN: T. ADINOLFI
CHECKED: V. ROBBINS
APPROVED: C. BROWN

SIGNATURE BLOCK:

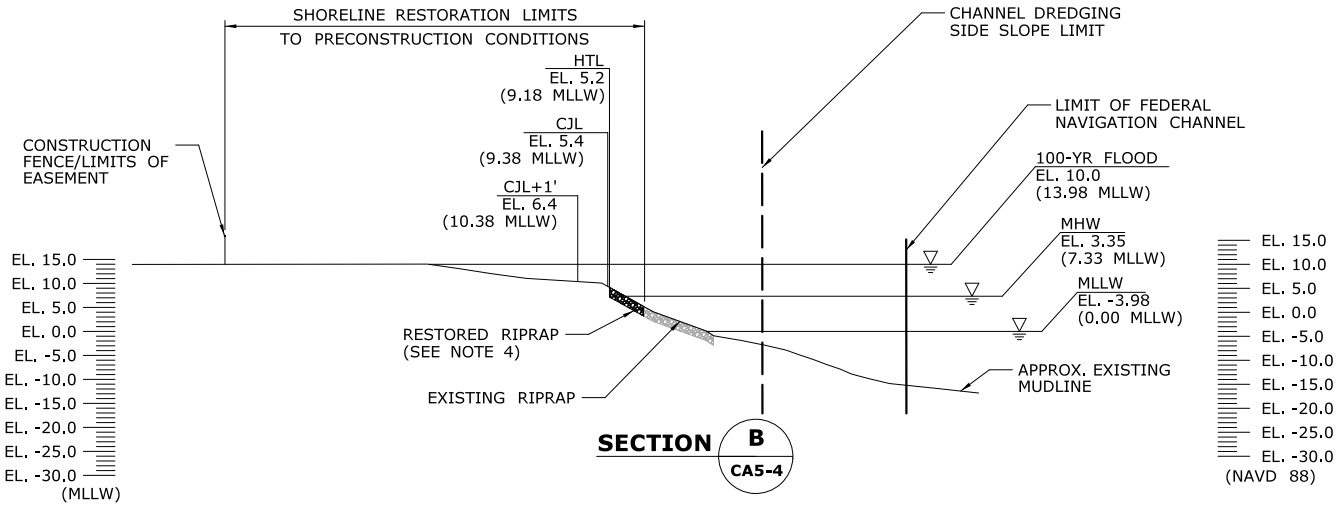
STATE OF CONNECTICUT
DEPARTMENT OF TRANSPORTATION

PROJECT TITLE:
WALK BRIDGE REPLACEMENT OVER THE NORWALK RIVER BRIDGE NO. 04288R/MP 41.5

TOWN: **NORWALK**
PROJECT NO.: **0301-0176**
DRAWING TITLE: **ACTIVITY 5 NORTHWEST TRESTLE (SHEET 4 OF 5)**
DATE: **REV 7-31-20**
DRAWING NO.: **CA5-4**



SECTION A — CA5-3



SECTION B — CA5-4

NOTES:

1. PLATFORM SUPPORT PILES AND MOORING PILES ARE ANTICIPATED TO BE 36" (MAX.) DIAMETER PIPE PILES.
2. VERTICAL DATUM IS NAVD 88. ELEVATIONS RELATIVE TO MLLW TIDAL DATUM ARE SHOWN IN PARENTHESES.
3. WORKING SURFACE IS AT ELEVATION 10.5 (14.48 MLLW).
4. WHERE CONTRACTOR DISTURBS EXISTING RIPRAP ALONG THE SHORELINE, IT WILL BE RESTORED TO MATCH EXISTING UP TO THE HTL ELEVATION WITHIN THE LIMITS OF DISTURBANCE.

ELEVATION TABLE

DESCRIPTION	CONTOUR	ELEVATION (NAVD88)	ELEVATION (MLLW)
100-YEAR FLOODPLAIN	100 YR	10.0	13.98
MAX. ELEVATION OF LAND CAPABLE OF SUPPORTING TIDAL VEGETATION	CJL+1	6.4	10.38
CT COASTAL JURISDICTION LINE	CJL	5.4	9.38
HIGH TIDE LINE	HTL	5.2	9.18
MEAN HIGH WATER LINE	MHW	3.35	7.33
MEAN LOW WATER LINE	MLW	-3.72	0.26
MEAN LOWER LOW WATER LINE	MLLW	-3.98	0

SCALE:
SCALE IN FEET
0 20 40
SCALE 1"=40'

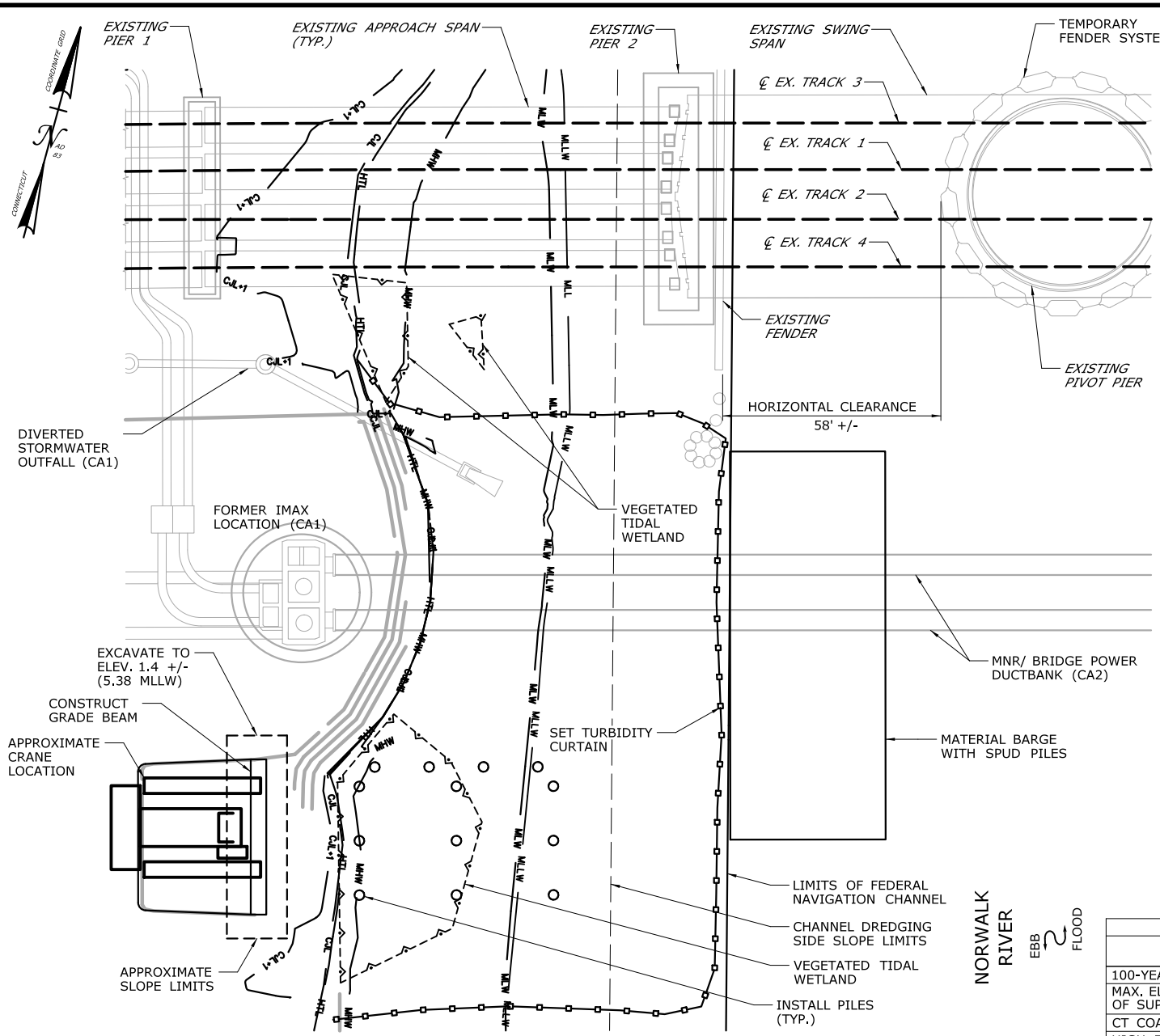
DRAWN: T. ADINOLFI
CHECKED: V. ROBBINS
APPROVED: C. BROWN

SIGNATURE BLOCK:

STATE OF CONNECTICUT
DEPARTMENT OF TRANSPORTATION

PROJECT TITLE:
WALK BRIDGE REPLACEMENT OVER THE NORWALK RIVER BRIDGE NO. 04288R/MP 41.5

TOWN: **NORWALK**
PROJECT NO.: **0301-0176**
DRAWING TITLE: **ACTIVITY 5 NORTHWEST TRESTLE (SHEET 5 OF 5)**
DATE: **REV 7-31-20**
DRAWING NO.: **CA5-5**



PLAN

CONSTRUCTION SEQUENCE

THE SHEETS IN THIS SUBSET DESCRIBE THE SEQUENCE OF ACTIVITIES REQUIRED TO BUILD THE SOUTHWEST TRESTLE WITH REFERENCES TO RELATED ACTIVITIES THROUGHOUT. FOR DETAILS OF RELATED ACTIVITIES, REFER TO THE SUBSETS NOTED IN PARENTHESES. WORK DEPICTED ON THIS SHEET IS IDENTIFIED WITH AN "X" IN THE TABLE.

	WORK DESCRIPTION
X	SET TURBIDITY CURTAIN.
X	EXCAVATE SHORELINE AT PLATFORM RAMP.
X	CONSTRUCT GRADE BEAM AND INSTALL PILES TO SUPPORT FIRST SECTION OF TRESTLE PLATFORM.
	CONSTRUCT CAP BEAMS AND PLATFORM FOR FIRST SECTION OF TRESTLE.
	INSTALL REMAINING PILES, CONSTRUCT CAP BEAMS, AND CONSTRUCT PLATFORM INTERMITTENTLY TO COMPLETE THE PLATFORM.
	INSTALL MOORING PILES AND TEMPORARY FENDER SYSTEM.
	SET TURBIDITY CURTAIN. REMOVE TEMPORARY FENDER SYSTEM, MOORING PILES, AND TRESTLE IN REVERSE ORDER FROM INSTALLATION.
	REMOVE REMAINDER OF MARINE ENCLOSURE FROM PROPOSED PIER 2.
	REMOVE TEMPORARY GRADE BEAM AND RESTORE SHORELINE TO PRECONSTRUCTION CONDITIONS.

NOTES:

1. SPUD PILES AND PLATFORM SUPPORT PILES ARE ANTICIPATED TO BE 36" (MAX.) DIAMETER PIPE PILES.
2. VERTICAL DATUM IS NAVD 88. ELEVATIONS RELATIVE TO MLLW TIDAL DATUM ARE SHOWN IN PARENTHESES.
3. SEE VESSEL BERTHING PLAN (DWG. GEN-9) FOR TYPICAL BARGE SIZES.
4. THIS ACTIVITY IS CONTAINED ENTIRELY WITHIN THE 100-YR FLOODPLAIN.

ELEVATION TABLE			
DESCRIPTION	CONTOUR	ELEVATION (NAVD88)	ELEVATION (MLLW)
100-YEAR FLOODPLAIN	100 YR	12.0	15.98
MAX. ELEVATION OF LAND CAPABLE OF SUPPORTING TIDAL VEGETATION	CJL+1	6.4	10.38
CT COASTAL JURISDICTION LINE	CJL	5.4	9.38
HIGH TIDE LINE	HTL	5.2	9.18
MEAN HIGH WATER LINE	MHW	3.35	7.33
MEAN LOW WATER LINE	MLW	-3.72	0.26
MEAN LOWER LOW WATER LINE	MLLW	-3.98	0

SCALE: SCALE IN FEET 0 20 40 SCALE 1"=40'

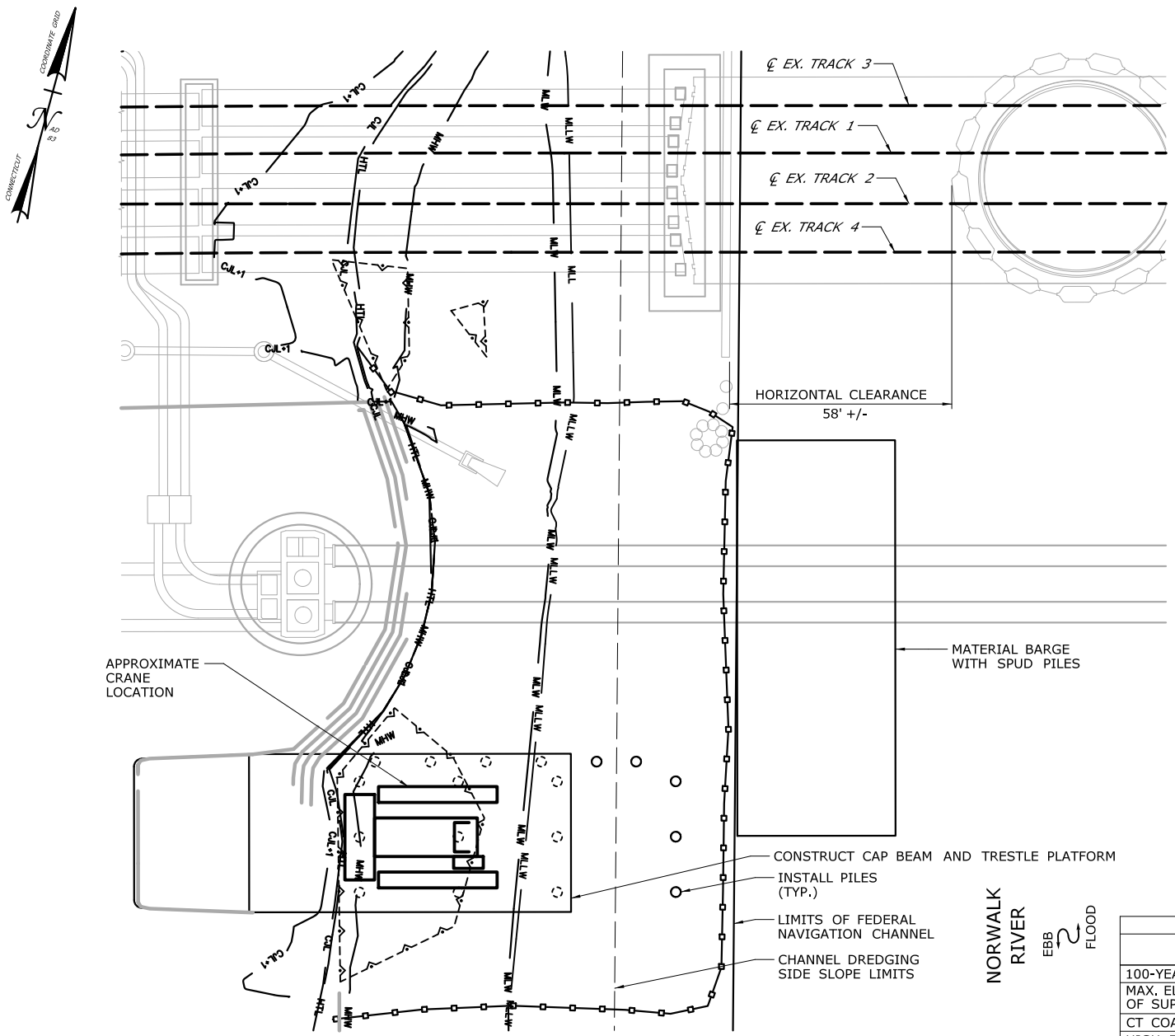
DRAWN: T. ADINOLFI
CHECKED: V. ROBBINS
APPROVED: C. BROWN

SIGNATURE BLOCK:

STATE OF CONNECTICUT
DEPARTMENT OF TRANSPORTATION

PROJECT TITLE:
WALK BRIDGE REPLACEMENT OVER THE NORWALK RIVER BRIDGE NO. 04288R/MP 41.5

TOWN: **NORWALK**
PROJECT NO.: **0301-0176**
DRAWING TITLE: **ACTIVITY 6 SOUTHWEST TRESTLE (SHEET 1 OF 5)**
DATE: **REV 05-19-21**
DRAWING NO.: **CA6-1**



PLAN

CONSTRUCTION SEQUENCE

THE SHEETS IN THIS SUBSET DESCRIBE THE SEQUENCE OF ACTIVITIES REQUIRED TO BUILD THE SOUTHWEST TRESTLE WITH REFERENCES TO RELATED ACTIVITIES THROUGHOUT. FOR DETAILS OF RELATED ACTIVITIES, REFER TO THE SUBSETS NOTED IN PARENTHESES. WORK DEPICTED ON THIS SHEET IS IDENTIFIED WITH AN "X" IN THE TABLE.

	WORK DESCRIPTION
	SET TURBIDITY CURTAIN.
	EXCAVATE SHORELINE AT PLATFORM RAMP.
	CONSTRUCT GRADE BEAM AND INSTALL PILES TO SUPPORT FIRST SECTION OF TRESTLE PLATFORM.
X	CONSTRUCT CAP BEAMS AND PLATFORM FOR FIRST SECTION OF TRESTLE.
X	INSTALL REMAINING PILES, CONSTRUCT CAP BEAMS, AND CONSTRUCT PLATFORM INTERMITTENTLY TO COMPLETE THE PLATFORM.
	INSTALL MOORING PILES AND TEMPORARY FENDER SYSTEM.
	SET TURBIDITY CURTAIN. REMOVE TEMPORARY FENDER SYSTEM, MOORING PILES, AND TRESTLE IN REVERSE ORDER FROM INSTALLATION.
	REMOVE REMAINDER OF MARINE ENCLOSURE FROM PROPOSED PIER 2.
	REMOVE TEMPORARY GRADE BEAM AND RESTORE SHORELINE TO PRECONSTRUCTION CONDITIONS.

NOTES:

1. SPUD PILES AND PLATFORM SUPPORT PILES ARE ANTICIPATED TO BE 36" (MAX.) DIAMETER PIPE PILES.
2. VERTICAL DATUM IS NAVD 88. ELEVATIONS RELATIVE TO MLLW TIDAL DATUM ARE SHOWN IN PARENTHESES.
3. TOP OF PLATFORM IS AT ELEV. 10.66 (14.64 MLLW).
4. SEE VESSEL BERTHING PLAN (DWG. GEN-9) FOR TYPICAL BARGE SIZES.
5. THIS ACTIVITY IS CONTAINED ENTIRELY WITHIN THE 100-YR FLOODPLAIN.

ELEVATION TABLE			
DESCRIPTION	CONTOUR	ELEVATION (NAVD88)	ELEVATION (MLLW)
100-YEAR FLOODPLAIN	100 YR	12.0	15.98
MAX. ELEVATION OF LAND CAPABLE OF SUPPORTING TIDAL VEGETATION	CJL+1	6.4	10.38
CT COASTAL JURISDICTION LINE	CJL	5.4	9.38
HIGH TIDE LINE	HTL	5.2	9.18
MEAN HIGH WATER LINE	MHW	3.35	7.33
MEAN LOW WATER LINE	MLW	-3.72	0.26
MEAN LOWER LOW WATER LINE	MLLW	-3.98	0

SCALE:
SCALE IN FEET
0 20 40
SCALE 1"=40'

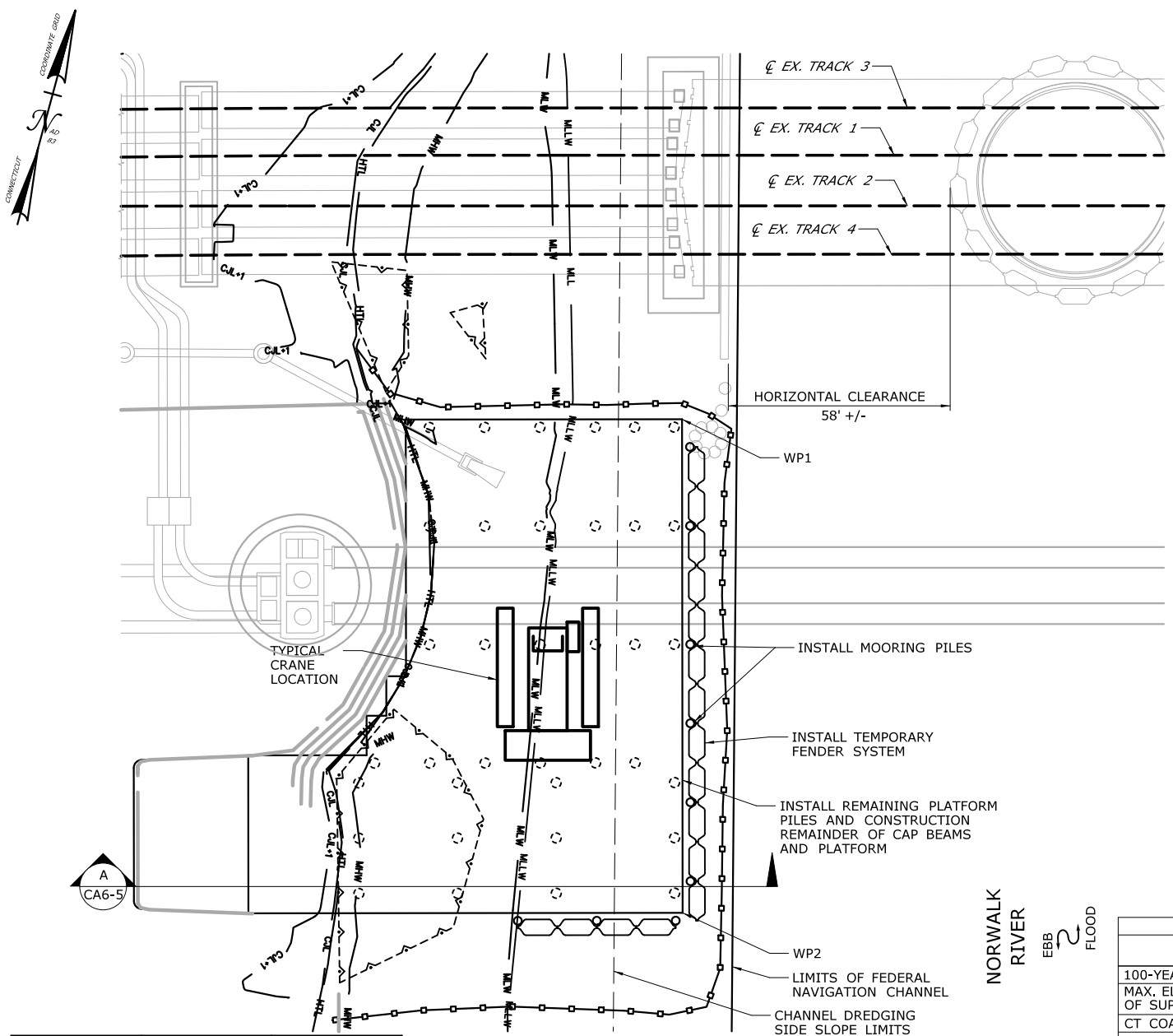
DRAWN: T. ADINOLFI
CHECKED: V. ROBBINS
APPROVED: C. BROWN

SIGNATURE BLOCK:

STATE OF CONNECTICUT
DEPARTMENT OF TRANSPORTATION

PROJECT TITLE:
WALK BRIDGE REPLACEMENT OVER THE NORWALK RIVER BRIDGE NO. 04288R/MP 41.5

TOWN: **NORWALK**
PROJECT NO.: **0301-0176**
DRAWING TITLE: **ACTIVITY 6 SOUTHWEST TRESTLE (SHEET 2 OF 5)**
DATE: **REV 05-19-21**
DRAWING NO.: **CA6-2**



WORKING POINT	NORTHING	EASTING
WP1	597,951	816,560
WP2	597,831	816,593

PLAN

CONSTRUCTION SEQUENCE

THE SHEETS IN THIS SUBSET DESCRIBE THE SEQUENCE OF ACTIVITIES REQUIRED TO BUILD THE SOUTHWEST TRESTLE WITH REFERENCES TO RELATED ACTIVITIES THROUGHOUT. FOR DETAILS OF RELATED ACTIVITIES, REFER TO THE SUBSETS NOTED IN PARENTHESES. WORK DEPICTED ON THIS SHEET IS IDENTIFIED WITH AN "X" IN THE TABLE.

	WORK DESCRIPTION
	SET TURBIDITY CURTAIN.
	EXCAVATE SHORELINE AT PLATFORM RAMP.
	CONSTRUCT GRADE BEAM AND INSTALL PILES TO SUPPORT FIRST SECTION OF TRESTLE PLATFORM.
	CONSTRUCT CAP BEAMS AND PLATFORM FOR FIRST SECTION OF TRESTLE.
X	INSTALL REMAINING PILES, CONSTRUCT CAP BEAMS, AND CONSTRUCT PLATFORM INTERMITTENTLY TO COMPLETE THE PLATFORM.
X	INSTALL MOORING PILES AND TEMPORARY FENDER SYSTEM.
	SET TURBIDITY CURTAIN. REMOVE TEMPORARY FENDER SYSTEM, MOORING PILES, AND TRESTLE IN REVERSE ORDER FROM INSTALLATION.
	REMOVE REMAINDER OF MARINE ENCLOSURE FROM PROPOSED PIER 2.
	REMOVE TEMPORARY GRADE BEAM AND RESTORE SHORELINE TO PRECONSTRUCTION CONDITIONS.

NOTES:

1. SPUD PILES, PLATFORM SUPPORT PILES, AND MOORING PILES ARE ANTICIPATED TO BE 36" (MAX.) DIAMETER PIPE PILES.
2. VERTICAL DATUM IS NAVD 88. ELEVATIONS RELATIVE TO MLLW TIDAL DATUM ARE SHOWN IN PARENTHESES.
3. TOP OF PLATFORM ELEV. 10.66 (14.64 MLLW).
4. FOLLOWING COMPLETION OF ALL PILE-DRIVING ACTIVITIES AND THE TURBIDITY HAS SETTLED TO THE PRE-CONSTRUCTION CONDITIONS, THE TURBIDITY CURTAIN WILL BE REMOVED.
5. LIMITS OF TEMPORARY FENDER SYSTEM AND TEMPORARY AIDS TO NAVIGATION (E.G., LIGHTING) WILL BE COORDINATED WITH THE USCG.
6. THIS ACTIVITY IS CONTAINED ENTIRELY WITHIN THE 100-YR FLOODPLAIN.

ELEVATION TABLE			
DESCRIPTION	CONTOUR	ELEVATION (NAVD88)	ELEVATION (MLLW)
100-YEAR FLOODPLAIN	100 YR	12.0	15.98
MAX. ELEVATION OF LAND CAPABLE OF SUPPORTING TIDAL VEGETATION	CJL+1	6.4	10.38
CT COASTAL JURISDICTION LINE	CJL	5.4	9.38
HIGH TIDE LINE	HTL	5.2	9.18
MEAN HIGH WATER LINE	MHW	3.35	7.33
MEAN LOW WATER LINE	MLW	-3.72	0.26
MEAN LOWER LOW WATER LINE	MLLW	-3.98	0

SCALE:
SCALE IN FEET
0 20 40
SCALE 1"=40'

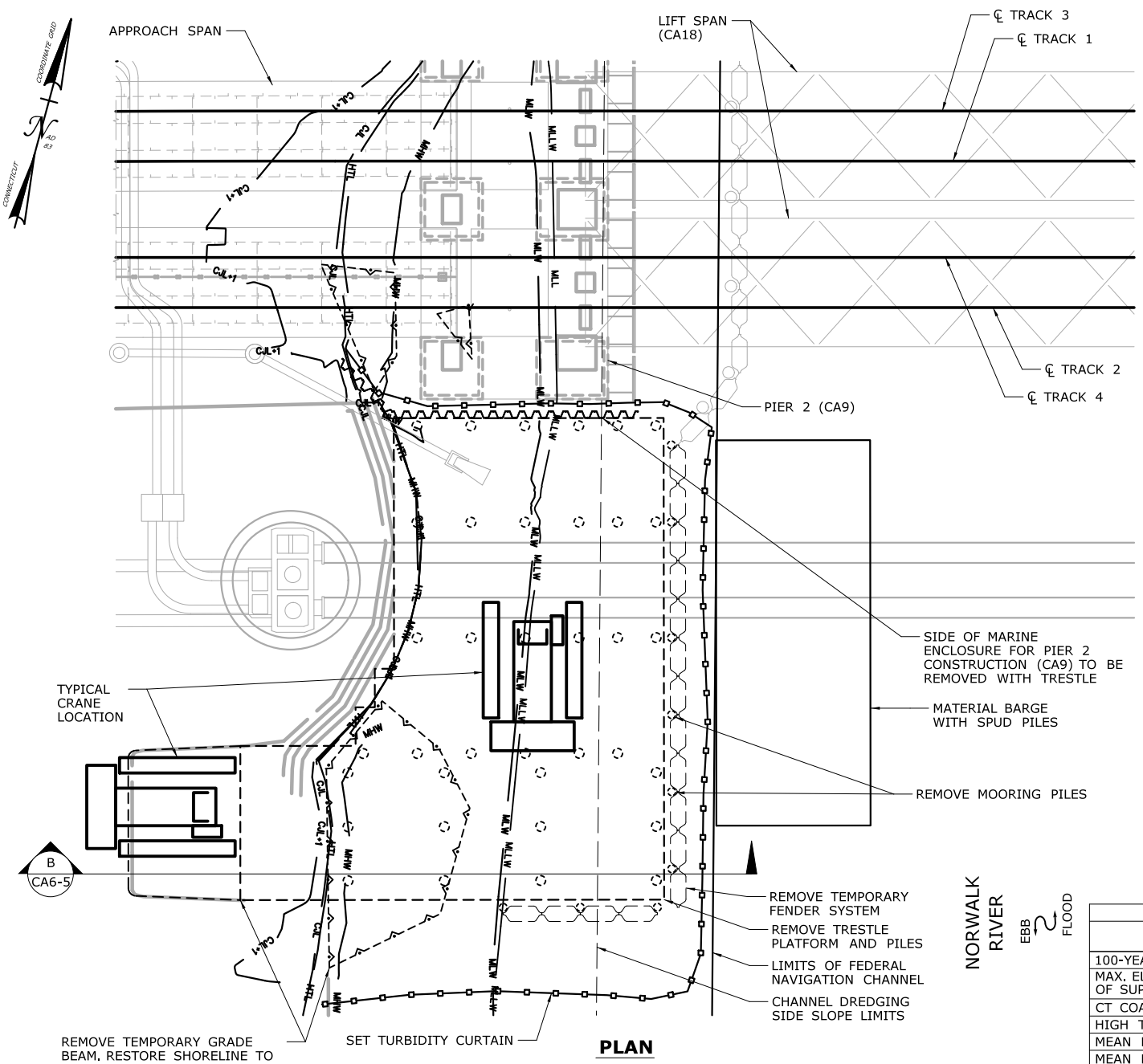
DRAWN: T. ADINOLFI
CHECKED: V. ROBBINS
APPROVED: C. BROWN

SIGNATURE BLOCK:

STATE OF CONNECTICUT
DEPARTMENT OF TRANSPORTATION

PROJECT TITLE:
WALK BRIDGE REPLACEMENT OVER THE NORWALK RIVER BRIDGE NO. 04288R/MP 41.5

TOWN: **NORWALK**
PROJECT NO.: **0301-0176**
DRAWING TITLE: **ACTIVITY 6 SOUTHWEST TRESTLE (SHEET 3 OF 5)**
DATE: **REV 05-19-21**
DRAWING NO.: **CA6-3**



PLAN

CONSTRUCTION SEQUENCE

THE SHEETS IN THIS SUBSET DESCRIBE THE SEQUENCE OF ACTIVITIES REQUIRED TO BUILD THE SOUTHWEST TRESTLE WITH REFERENCES TO RELATED ACTIVITIES THROUGHOUT. FOR DETAILS OF RELATED ACTIVITIES, REFER TO THE SUBSETS NOTED IN PARENTHESES. WORK DEPICTED ON THIS SHEET IS IDENTIFIED WITH AN "X" IN THE TABLE.

	WORK DESCRIPTION
	SET TURBIDITY CURTAIN.
	EXCAVATE SHORELINE AT PLATFORM RAMP.
	CONSTRUCT GRADE BEAM AND INSTALL PILES TO SUPPORT FIRST SECTION OF TRESTLE PLATFORM.
	CONSTRUCT CAP BEAMS AND PLATFORM FOR FIRST SECTION OF TRESTLE.
	INSTALL REMAINING PILES, CONSTRUCT CAP BEAMS, AND CONSTRUCT PLATFORM INTERMITTENTLY TO COMPLETE THE PLATFORM.
	INSTALL MOORING PILES AND TEMPORARY FENDER SYSTEM.
X	SET TURBIDITY CURTAIN. REMOVE TEMPORARY FENDER SYSTEM, MOORING PILES, AND TRESTLE IN REVERSE ORDER FROM INSTALLATION.
X	REMOVE REMAINDER OF MARINE ENCLOSURE FROM PROPOSED PIER 2.
X	REMOVE TEMPORARY GRADE BEAM AND RESTORE SHORELINE TO PRECONSTRUCTION CONDITIONS.

NOTES:

1. SPUD PILES, PLATFORM SUPPORT PILES, AND MOORING PILES ARE ANTICIPATED TO BE 36" (MAX.) DIAMETER PIPE PILES.
2. VERTICAL DATUM IS NAVD 88. ELEVATIONS RELATIVE TO MLLW TIDAL DATUM ARE SHOWN IN PARENTHESES.
3. TOP OF PLATFORM ELEV. 10.66 (14.64 MLLW).
4. SEE VESSEL BERTHING PLAN (DWG. GEN-9) FOR TYPICAL BARGE SIZES.
5. SHORELINE RESTORATION TO BE CONSISTENT WITH IMAX REMOVAL RESTORATION (SEE ACTIVITY 1).
6. THIS ACTIVITY IS CONTAINED ENTIRELY WITHIN THE 100-YR FLOODPLAIN.

ELEVATION TABLE			
DESCRIPTION	CONTOUR	ELEVATION (NAVD88)	ELEVATION (MLLW)
100-YEAR FLOODPLAIN	100 YR	12.0	15.98
MAX. ELEVATION OF LAND CAPABLE OF SUPPORTING TIDAL VEGETATION	CJL+1	6.4	10.38
CT COASTAL JURISDICTION LINE	CJL	5.4	9.38
HIGH TIDE LINE	HTL	5.2	9.18
MEAN HIGH WATER LINE	MHW	3.35	7.33
MEAN LOW WATER LINE	MLW	-3.72	0.26
MEAN LOWER LOW WATER LINE	MLLW	-3.98	0

SCALE:
SCALE IN FEET
0 20 40
SCALE 1"=40'

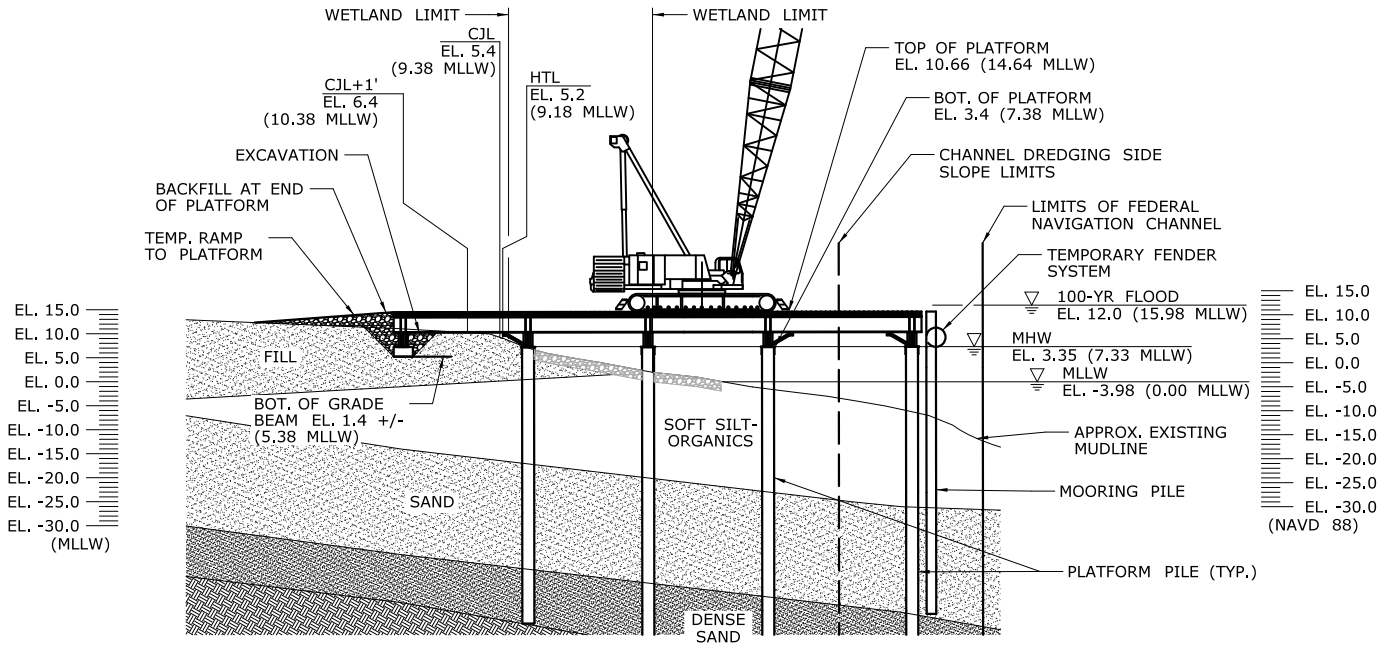
DRAWN: T. ADINOLFI
CHECKED: V. ROBBINS
APPROVED: C. BROWN

SIGNATURE BLOCK:

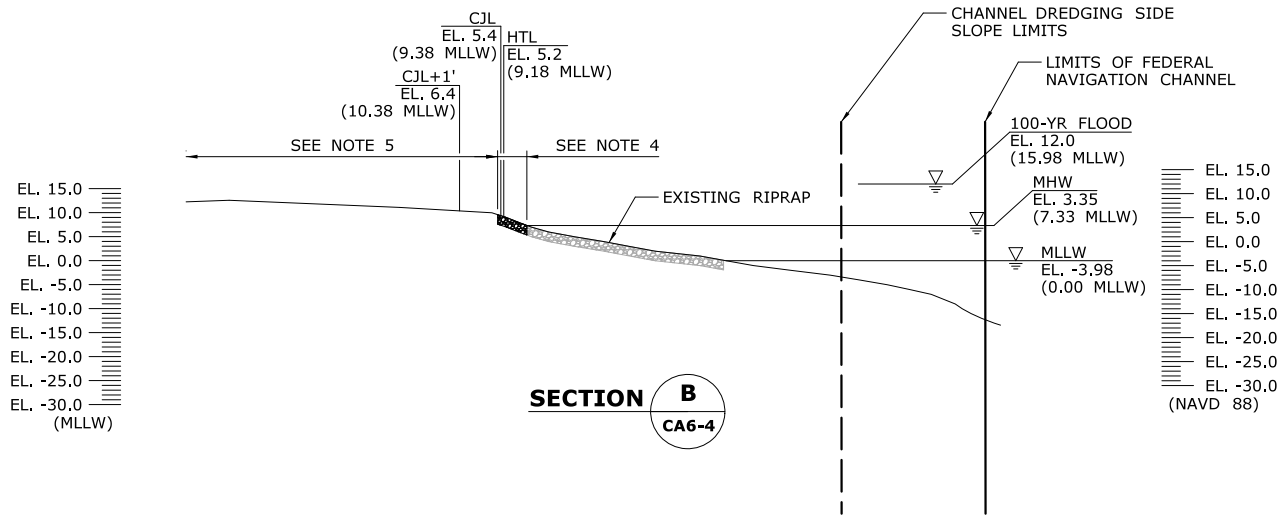
STATE OF CONNECTICUT
DEPARTMENT OF TRANSPORTATION

PROJECT TITLE:
WALK BRIDGE REPLACEMENT OVER THE NORWALK RIVER BRIDGE NO. 04288R/MP 41.5

TOWN: **NORWALK**
PROJECT NO.: **0301-0176**
DRAWING TITLE: **ACTIVITY 6 SOUTHWEST TRESTLE (SHEET 4 OF 5)**
DATE: **REV 05-19-21**
DRAWING NO.: **CA6-4**



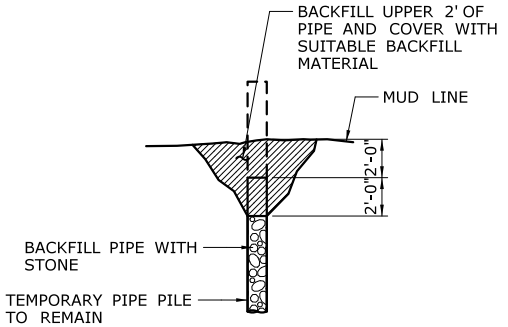
SECTION A CA6-3



SECTION B CA6-4

NOTES:

1. PLATFORM SUPPORT PILES AND MOORING PILES ARE ANTICIPATED TO BE 36" (MAX.) DIAMETER PIPE PILES.
2. VERTICAL DATUM IS NAVD 88. ELEVATIONS RELATIVE TO MLLW TIDAL DATUM ARE SHOWN IN PARENTHESES.
3. WORKING SURFACE IS AT ELEVATION 10.66 (14.64 MLLW).
4. MATCH EXISTING MATERIAL AND TREATMENT ALONG SHORELINE FOR EROSION CONTROL.
5. TREAT SLOPE ABOVE HIGH TIDE LINE WITH APPROPRIATE FERTILIZER, SEED, AND MULCH IN ACCORDANCE WITH CTDEEP GUIDELINES FOR SOIL EROSION AND SEDIMENT CONTROL.
6. RIPRAP WILL BE USED IF FILL IS PLACED BELOW THE HIGH TIDE LINE.
7. THIS ACTIVITY IS CONTAINED ENTIRELY WITHIN THE 100-YR FLOODPLAIN.
8. CONTRACTOR SHALL ONLY USE CUT-OFF PILE DETAIL IF FULL PILE EXTRACTION IS NOT POSSIBLE OR WHERE EXTRACTION HAS POTENTIAL TO COMPROMISE THE DUCTBANK. WORK SHALL BE PERFORMED WITHIN A TURBIDITY CURTAIN FROM EITHER LAND OR THE TRESTLE.



CUT-OFF PILE DETAIL
N.T.S.

ELEVATION TABLE			
DESCRIPTION	CONTOUR	ELEVATION (NAVD88)	ELEVATION (MLLW)
100-YEAR FLOODPLAIN	100 YR	12.0	15.98
MAX. ELEVATION OF LAND CAPABLE OF SUPPORTING TIDAL VEGETATION	CJL+1	6.4	10.38
CT COASTAL JURISDICTION LINE	CJL	5.4	9.38
HIGH TIDE LINE	HTL	5.2	9.18
MEAN HIGH WATER LINE	MHW	3.35	7.33
MEAN LOW WATER LINE	MLW	-3.72	0.26
MEAN LOWER LOW WATER LINE	MLLW	-3.98	0

SCALE:
SCALE IN FEET
0 20 40
SCALE 1"=40'
(EXCEPT AS NOTED)

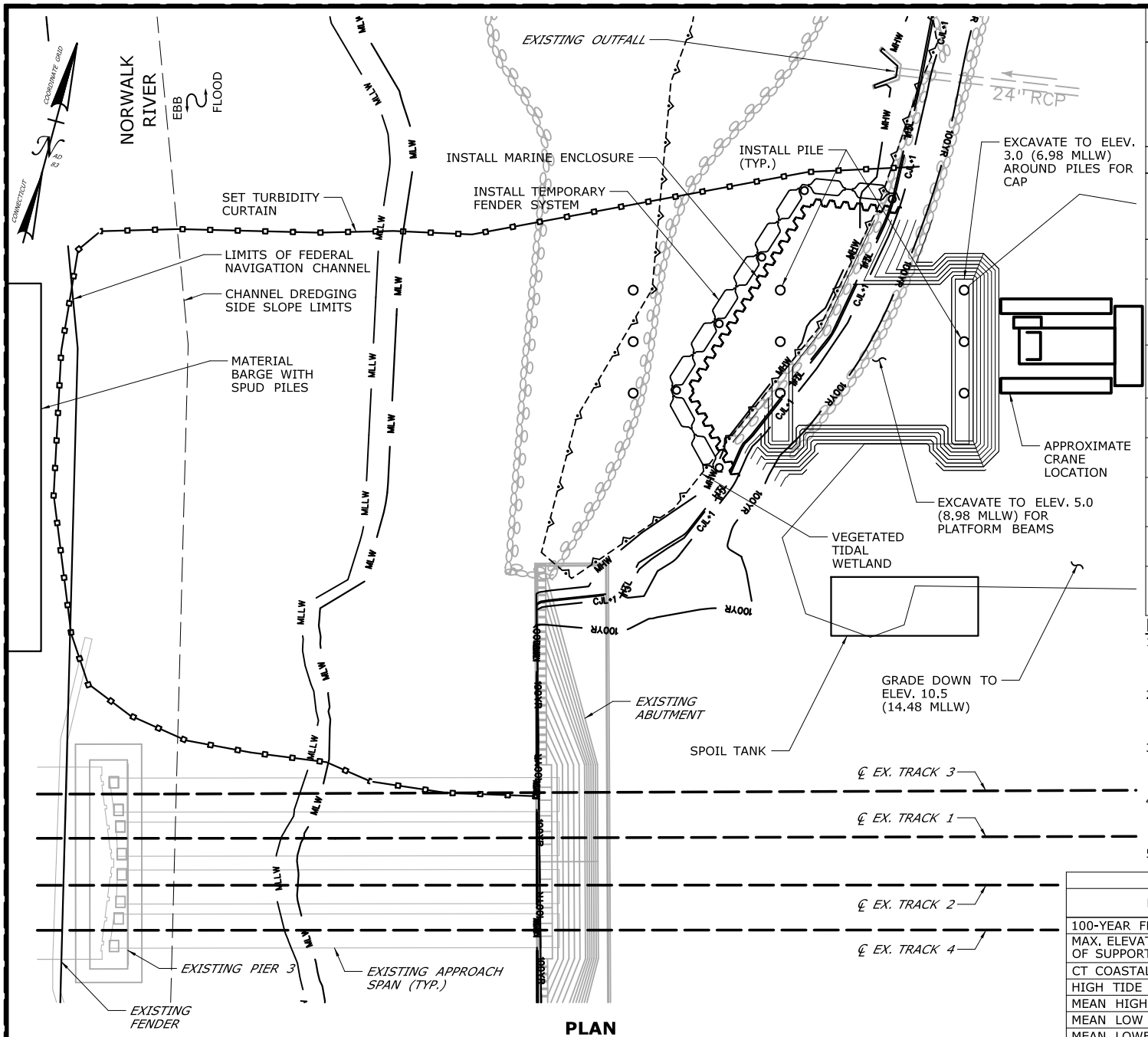
DRAWN: T. ADINOLFI
CHECKED: V. ROBBINS
APPROVED: C. BROWN

SIGNATURE BLOCK:

STATE OF CONNECTICUT
DEPARTMENT OF TRANSPORTATION

PROJECT TITLE:
WALK BRIDGE REPLACEMENT OVER THE NORWALK RIVER BRIDGE NO. 04288R/MP 41.5

TOWN: **NORWALK**
PROJECT NO.: **0301-0176**
DRAWING TITLE: **ACTIVITY 6 SOUTHWEST TRESTLE (SHEET 5 OF 5)**
DATE: **REV 7-31-20**
DRAWING NO.: **CA6-5**



PLAN

CONSTRUCTION SEQUENCE

THE SHEETS IN THIS SUBSET DESCRIBE THE SEQUENCE OF ACTIVITIES REQUIRED TO BUILD THE NORTHEAST TRESTLE WITH REFERENCES TO RELATED ACTIVITIES THROUGHOUT. FOR DETAILS OF RELATED ACTIVITIES, REFER TO THE SUBSETS NOTED IN PARENTHESES. WORK DEPICTED ON THIS SHEET IS IDENTIFIED WITH AN "X" IN THE TABLE.

	WORK DESCRIPTION
X	SET TURBIDITY CURTAIN. INSTALL MARINE ENCLOSURE AND TEMPORARY FENDER SYSTEM AND EXCAVATE FOR PLATFORM CONSTRUCTION. GRADE SITE TO PLATFORM ELEVATION.
X	INSTALL PILES TO SUPPORT FIRST SECTION OF TRESTLE PLATFORM AND TEMPORARY FENDER SYSTEM.
	REMOVE MARINE ENCLOSURE AND TEMPORARY FENDER SYSTEM. CONSTRUCT CAP BEAMS AND PLATFORM FOR FIRST SECTION OF TRESTLE. BACKFILL AT END OF PLATFORM.
	INSTALL REMAINING PILES, CONSTRUCT CAP BEAMS, AND CONSTRUCT PLATFORM INTERMITTENTLY TO COMPLETE THE PLATFORM.
	INSTALL MOORING PILES AND TEMPORARY FENDER SYSTEM.
	MODIFY TURBIDITY CURTAIN. INSTALL RAMP TO MITIGATION SITE.
	SET TURBIDITY CURTAIN. REMOVE TEMPORARY FENDER SYSTEM, MOORING PILES, RAMP TO MITIGATION AREA AND TRESTLE IN REVERSE ORDER FROM INSTALLATION.
	REMOVE REMAINDER OF MARINE ENCLOSURE FROM PROPOSED PIER 3.
	RESTORE SITE AND WETLAND AREA TO PRECONSTRUCTION CONDITIONS. SEE ALSO ACTIVITY 16 FOR MITIGATION.

NOTES:

1. SPUD PILES, PLATFORM SUPPORT PILES, AND MOORING PILES ARE ANTICIPATED TO BE 36" (MAX.) DIAMETER PIPE PILES.
2. VERTICAL DATUM IS NAVD 88. ELEVATIONS RELATIVE TO MLLW TIDAL DATUM ARE SHOWN IN PARENTHESES.
3. MARINE ENCLOSURE WILL BE INSTALLED SO THAT THE TOP WILL BE AT OR ABOVE ELEV. 6.2 (10.18 MLLW), 1 FOOT ABOVE THE HIGH TIDE LINE.
4. SPOIL TANKS WILL BE USED FOR DEWATERING THE MATERIAL EXCAVATED FROM WITHIN THE MARINE ENCLOSURE.
5. SEE VESSEL BERTHING PLAN (DWG. GEN-9) FOR TYPICAL BARGE SIZES.

ELEVATION TABLE

DESCRIPTION	CONTOUR	ELEVATION (NAVD88)	ELEVATION (MLLW)
100-YEAR FLOODPLAIN	100 YR	10.0	13.98
MAX. ELEVATION OF LAND CAPABLE OF SUPPORTING TIDAL VEGETATION	CJL+1	6.4	10.38
CT COASTAL JURISDICTION LINE	CJL	5.4	9.38
HIGH TIDE LINE	HTL	5.2	9.18
MEAN HIGH WATER LINE	MHW	3.35	7.33
MEAN LOW WATER LINE	MLW	-3.72	0.26
MEAN LOWER LOW WATER LINE	MLLW	-3.98	0

SCALE: SCALE IN FEET 0 20 40 SCALE 1"=40'

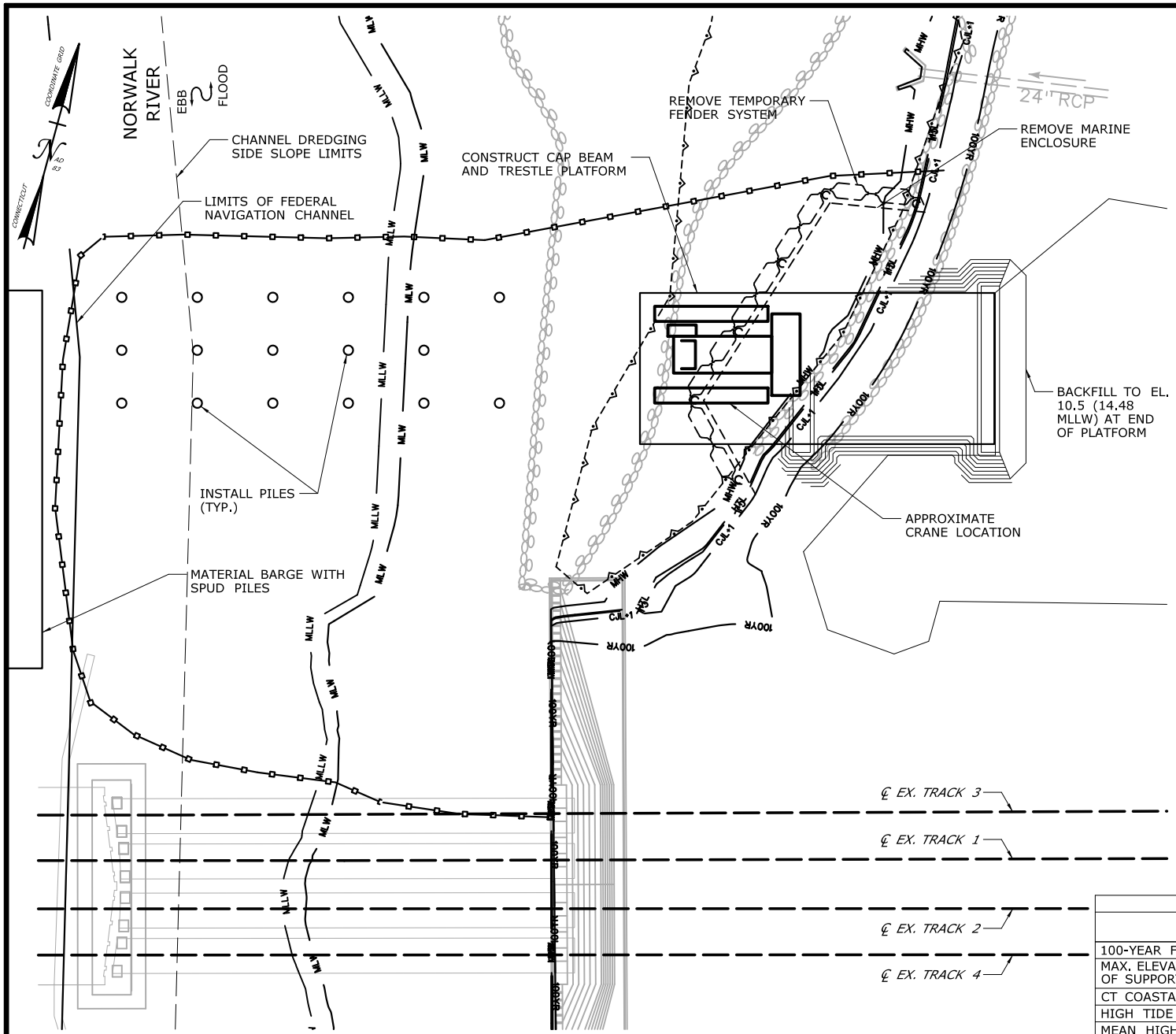
DRAWN: T. ADINOLFI
CHECKED: V. ROBBINS
APPROVED: C. BROWN

SIGNATURE BLOCK:

STATE OF CONNECTICUT
DEPARTMENT OF TRANSPORTATION

PROJECT TITLE:
WALK BRIDGE REPLACEMENT OVER THE NORWALK RIVER BRIDGE NO. 04288R/MP 41.5

TOWN: **NORWALK**
PROJECT NO.: **0301-0176**
DRAWING TITLE: **ACTIVITY 7 NORTHEAST TRESTLE (SHEET 1 OF 6)**
DATE: **REV 02-23-21**
DRAWING NO.: **CA7-1**



PLAN

CONSTRUCTION SEQUENCE

THE SHEETS IN THIS SUBSET DESCRIBE THE SEQUENCE OF ACTIVITIES REQUIRED TO BUILD THE NORTHEAST TRESTLE WITH REFERENCES TO RELATED ACTIVITIES THROUGHOUT. FOR DETAILS OF RELATED ACTIVITIES, REFER TO THE SUBSETS NOTED IN PARENTHESES. WORK DEPICTED ON THIS SHEET IS IDENTIFIED WITH AN "X" IN THE TABLE.

	WORK DESCRIPTION
	SET TURBIDITY CURTAIN. INSTALL MARINE ENCLOSURE AND TEMPORARY FENDER SYSTEM AND EXCAVATE FOR PLATFORM CONSTRUCTION. GRADE SITE TO PLATFORM ELEVATION.
	INSTALL PILES TO SUPPORT FIRST SECTION OF TRESTLE PLATFORM AND TEMPORARY FENDER SYSTEM.
X	REMOVE MARINE ENCLOSURE AND TEMPORARY FENDER SYSTEM. CONSTRUCT CAP BEAMS AND PLATFORM FOR FIRST SECTION OF TRESTLE. BACKFILL AT END OF PLATFORM.
X	INSTALL REMAINING PILES, CONSTRUCT CAP BEAMS, AND CONSTRUCT PLATFORM INTERMITTENTLY TO COMPLETE THE PLATFORM.
	INSTALL MOORING PILES AND TEMPORARY FENDER SYSTEM.
	MODIFY TURBIDITY CURTAIN. INSTALL RAMP TO MITIGATION SITE.
	SET TURBIDITY CURTAIN. REMOVE TEMPORARY FENDER SYSTEM, MOORING PILES, RAMP TO MITIGATION AREA AND TRESTLE IN REVERSE ORDER FROM INSTALLATION.
	REMOVE REMAINDER OF MARINE ENCLOSURE FROM PROPOSED PIER 3.
	RESTORE SITE AND WETLAND AREA TO PRECONSTRUCTION CONDITIONS. SEE ALSO ACTIVITY 16 FOR MITIGATION.

NOTES:

1. SPUD PILES, PLATFORM SUPPORT PILES, AND MOORING PILES ARE ANTICIPATED TO BE 36" (MAX.) DIAMETER PIPE PILES.
2. VERTICAL DATUM IS NAVD 88. ELEVATIONS RELATIVE TO MLLW TIDAL DATUM ARE SHOWN IN PARENTHESES.
3. TOP OF PLATFORM ELEV. 10.5 (14.48 MLLW).
4. SEE VESSEL BERTHING PLAN (DWG. GEN-9) FOR TYPICAL BARGE SIZES.

ELEVATION TABLE

DESCRIPTION	CONTOUR	ELEVATION (NAVD88)	ELEVATION (MLLW)
100-YEAR FLOODPLAIN	100 YR	10.0	13.98
MAX. ELEVATION OF LAND CAPABLE OF SUPPORTING TIDAL VEGETATION	CJL+1	6.4	10.38
CT COASTAL JURISDICTION LINE	CJL	5.4	9.38
HIGH TIDE LINE	HTL	5.2	9.18
MEAN HIGH WATER LINE	MHW	3.35	7.33
MEAN LOW WATER LINE	MLW	-3.72	0.26
MEAN LOWER LOW WATER LINE	MLLW	-3.98	0

SCALE: SCALE IN FEET 0 20 40 SCALE 1"=40'

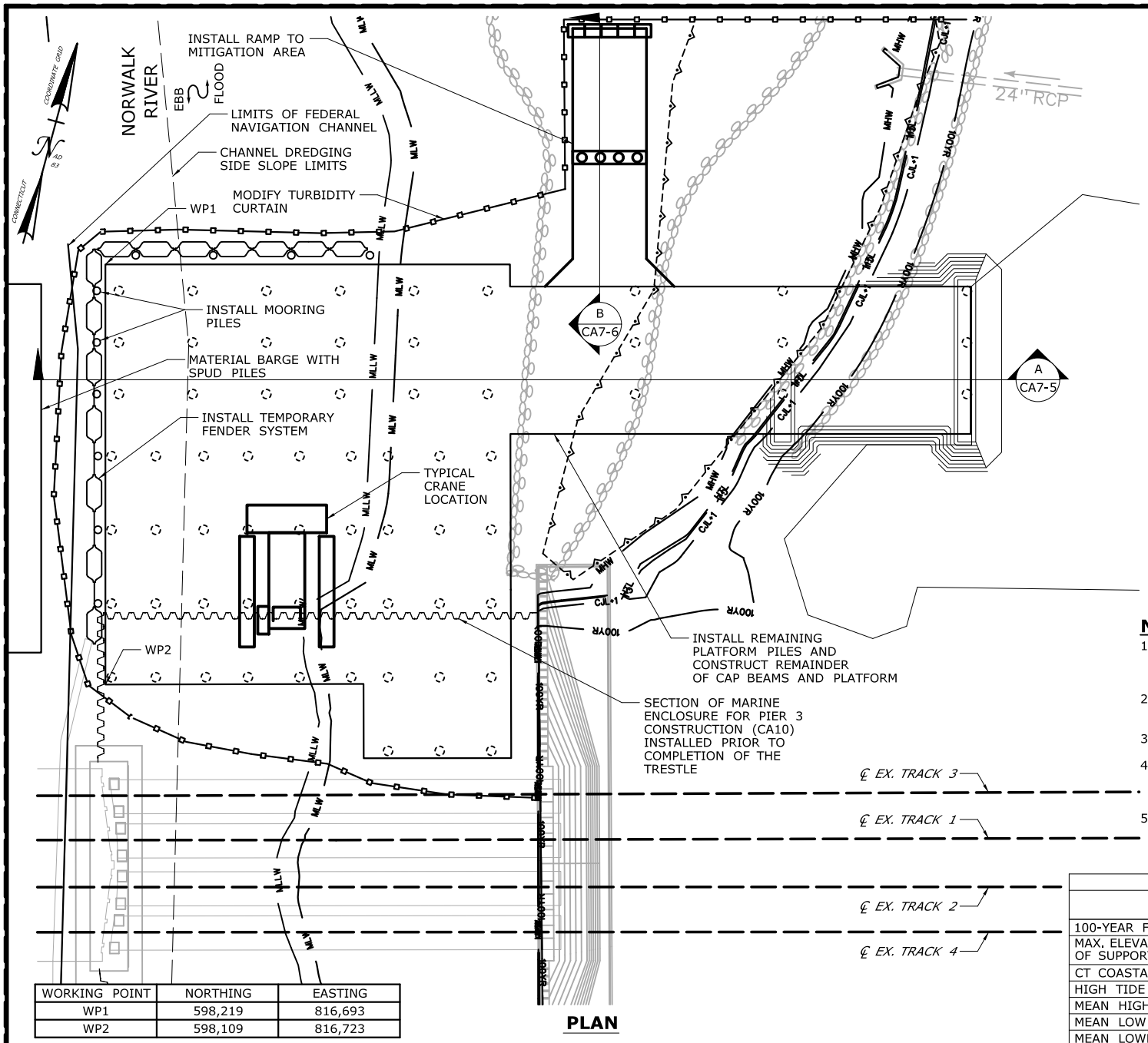
DRAWN: T. ADINOLFI
CHECKED: V. ROBBINS
APPROVED: C. BROWN

SIGNATURE BLOCK:

STATE OF CONNECTICUT
DEPARTMENT OF TRANSPORTATION

PROJECT TITLE:
WALK BRIDGE REPLACEMENT OVER THE NORWALK RIVER BRIDGE NO. 04288R/MP 41.5

TOWN: **NORWALK**
PROJECT NO.: **0301-0176**
DRAWING TITLE: **ACTIVITY 7 NORTHEAST TRESTLE (SHEET 2 OF 6)**
DATE: **REV 02-23-21**
DRAWING NO.: **CA7-2**



WORKING POINT	NORTHING	EASTING
WP1	598,219	816,693
WP2	598,109	816,723

PLAN

CONSTRUCTION SEQUENCE

THE SHEETS IN THIS SUBSET DESCRIBE THE SEQUENCE OF ACTIVITIES REQUIRED TO BUILD THE NORTHEAST TRESTLE WITH REFERENCES TO RELATED ACTIVITIES THROUGHOUT. FOR DETAILS OF RELATED ACTIVITIES, REFER TO THE SUBSETS NOTED IN PARENTHESES. WORK DEPICTED ON THIS SHEET IS IDENTIFIED WITH AN "X" IN THE TABLE.

	WORK DESCRIPTION
	SET TURBIDITY CURTAIN. INSTALL MARINE ENCLOSURE AND TEMPORARY FENDER SYSTEM AND EXCAVATE FOR PLATFORM CONSTRUCTION. GRADE SITE TO PLATFORM ELEVATION.
	INSTALL PILES TO SUPPORT FIRST SECTION OF TRESTLE PLATFORM AND TEMPORARY FENDER SYSTEM.
	REMOVE MARINE ENCLOSURE AND TEMPORARY FENDER SYSTEM. CONSTRUCT CAP BEAMS AND PLATFORM FOR FIRST SECTION OF TRESTLE. BACKFILL AT END OF PLATFORM.
X	INSTALL REMAINING PILES, CONSTRUCT CAP BEAMS, AND CONSTRUCT PLATFORM INTERMITTENTLY TO COMPLETE THE PLATFORM.
X	INSTALL MOORING PILES AND TEMPORARY FENDER SYSTEM.
X	MODIFY TURBIDITY CURTAIN. INSTALL RAMP TO MITIGATION SITE.
	SET TURBIDITY CURTAIN. REMOVE TEMPORARY FENDER SYSTEM, MOORING PILES, RAMP TO MITIGATION AREA AND TRESTLE IN REVERSE ORDER FROM INSTALLATION.
	REMOVE REMAINDER OF MARINE ENCLOSURE FROM PROPOSED PIER 3.
	RESTORE SITE AND WETLAND AREA TO PRECONSTRUCTION CONDITIONS. SEE ALSO ACTIVITY 16 FOR MITIGATION.

NOTES:

1. SPUD PILES, PLATFORM SUPPORT PILES, AND MOORING PILES ARE ANTICIPATED TO BE 36" (MAX.) DIAMETER PIPE PILES.
2. VERTICAL DATUM IS NAVD 88. ELEVATIONS RELATIVE TO MLLW TIDAL DATUM ARE SHOWN IN PARENTHESES.
3. TOP OF PLATFORM ELEV. 10.5 (14.48 MLLW).
4. LIMITS OF TEMPORARY FENDER SYSTEM AND TEMPORARY AIDS TO NAVIGATION (E.G., LIGHTING) WILL BE COORDINATED WITH THE USCG.
5. FOLLOWING COMPLETION OF ALL PILE-DRIVING ACTIVITIES AND TURBIDITY HAS SETTLED TO PRE-CONSTRUCTION CONDITIONS, THE TURBIDITY CURTAIN WILL BE REMOVED.

ELEVATION TABLE

DESCRIPTION	CONTOUR	ELEVATION (NAVD88)	ELEVATION (MLLW)
100-YEAR FLOODPLAIN	100 YR	10.0	13.98
MAX. ELEVATION OF LAND CAPABLE OF SUPPORTING TIDAL VEGETATION	CJL+1	6.4	10.38
CT COASTAL JURISDICTION LINE	CJL	5.4	9.38
HIGH TIDE LINE	HTL	5.2	9.18
MEAN HIGH WATER LINE	MHW	3.35	7.33
MEAN LOW WATER LINE	MLW	-3.72	0.26
MEAN LOWER LOW WATER LINE	MLLW	-3.98	0

SCALE:
SCALE IN FEET
0 20 40
SCALE 1"=40'

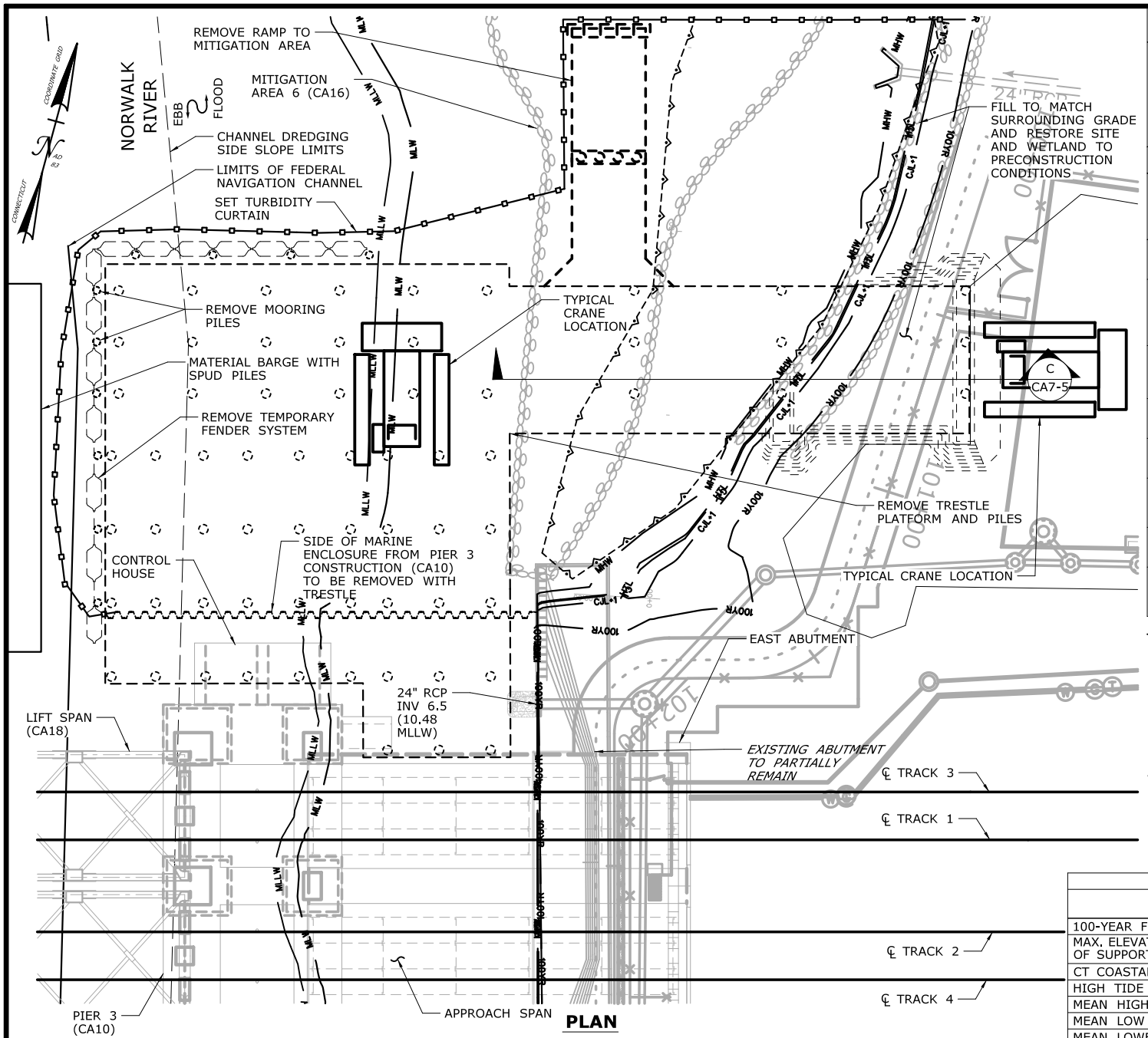
DRAWN: T. ADINOLFI
CHECKED: V. ROBBINS
APPROVED: C. BROWN

SIGNATURE BLOCK:

STATE OF CONNECTICUT
DEPARTMENT OF TRANSPORTATION

PROJECT TITLE:
WALK BRIDGE REPLACEMENT OVER THE NORWALK RIVER BRIDGE NO. 04288R/MP 41.5

TOWN: **NORWALK**
PROJECT NO.: **0301-0176**
DRAWING TITLE: **ACTIVITY 7 NORTHEAST TRESTLE (SHEET 3 OF 6)**
DATE: **REV 02-23-21**
DRAWING NO.: **CA7-3**



CONSTRUCTION SEQUENCE

THE SHEETS IN THIS SUBSET DESCRIBE THE SEQUENCE OF ACTIVITIES REQUIRED TO BUILD THE NORTHEAST TRESTLE WITH REFERENCES TO RELATED ACTIVITIES THROUGHOUT. FOR DETAILS OF RELATED ACTIVITIES, REFER TO THE SUBSETS NOTED IN PARENTHESES. WORK DEPICTED ON THIS SHEET IS IDENTIFIED WITH AN "X" IN THE TABLE.

	WORK DESCRIPTION
	SET TURBIDITY CURTAIN. INSTALL MARINE ENCLOSURE AND TEMPORARY FENDER SYSTEM AND EXCAVATE FOR PLATFORM CONSTRUCTION. GRADE SITE TO PLATFORM ELEVATION.
	INSTALL PILES TO SUPPORT FIRST SECTION OF TRESTLE PLATFORM AND TEMPORARY FENDER SYSTEM.
	REMOVE MARINE ENCLOSURE AND TEMPORARY FENDER SYSTEM. CONSTRUCT CAP BEAMS AND PLATFORM FOR FIRST SECTION OF TRESTLE. BACKFILL AT END OF PLATFORM.
	INSTALL REMAINING PILES, CONSTRUCT CAP BEAMS, AND CONSTRUCT PLATFORM INTERMITTENTLY TO COMPLETE THE PLATFORM.
	INSTALL MOORING PILES AND TEMPORARY FENDER SYSTEM.
	MODIFY TURBIDITY CURTAIN. INSTALL RAMP TO MITIGATION SITE.
X	SET TURBIDITY CURTAIN. REMOVE TEMPORARY FENDER SYSTEM, MOORING PILES, RAMP TO MITIGATION AREA AND TRESTLE IN REVERSE ORDER FROM INSTALLATION.
X	REMOVE REMAINDER OF MARINE ENCLOSURE FROM PROPOSED PIER 3.
X	RESTORE SITE AND WETLAND AREA TO PRECONSTRUCTION CONDITIONS. SEE ALSO ACTIVITY 16 FOR MITIGATION.

NOTES:

1. SPUD PILES, PLATFORM SUPPORT PILES, AND MOORING PILES ARE ANTICIPATED TO BE 36" (MAX.) DIAMETER PIPE PILES.
2. VERTICAL DATUM IS NAVD 88. ELEVATIONS RELATIVE TO MLLW TIDAL DATUM ARE SHOWN IN PARENTHESES.
3. TOP OF PLATFORM ELEV. 10.5 (14.48 MLLW).
4. SHORELINE RESTORATION TO MATCH EXISTING TREATMENT, SIDE SLOPE, AND ELEVATION BASED ON PRE-CONSTRUCTION CONDITIONS AND ADJACENT SHORELINE NOT DISTURBED BY CONSTRUCTION ACTIVITY.
5. SEE VESSEL BERTHING PLAN (DWG. GEN-9) FOR TYPICAL BARGE SIZES.

ELEVATION TABLE

DESCRIPTION	CONTOUR	ELEVATION (NAVD88)	ELEVATION (MLLW)
100-YEAR FLOODPLAIN	100 YR	10.0	13.98
MAX. ELEVATION OF LAND CAPABLE OF SUPPORTING TIDAL VEGETATION	CJL+1	6.4	10.38
CT COASTAL JURISDICTION LINE	CJL	5.4	9.38
HIGH TIDE LINE	HTL	5.2	9.18
MEAN HIGH WATER LINE	MHW	3.35	7.33
MEAN LOW WATER LINE	MLW	-3.72	0.26
MEAN LOWER LOW WATER LINE	MLLW	-3.98	0

SCALE: SCALE IN FEET 0 20 40 SCALE 1"=40'

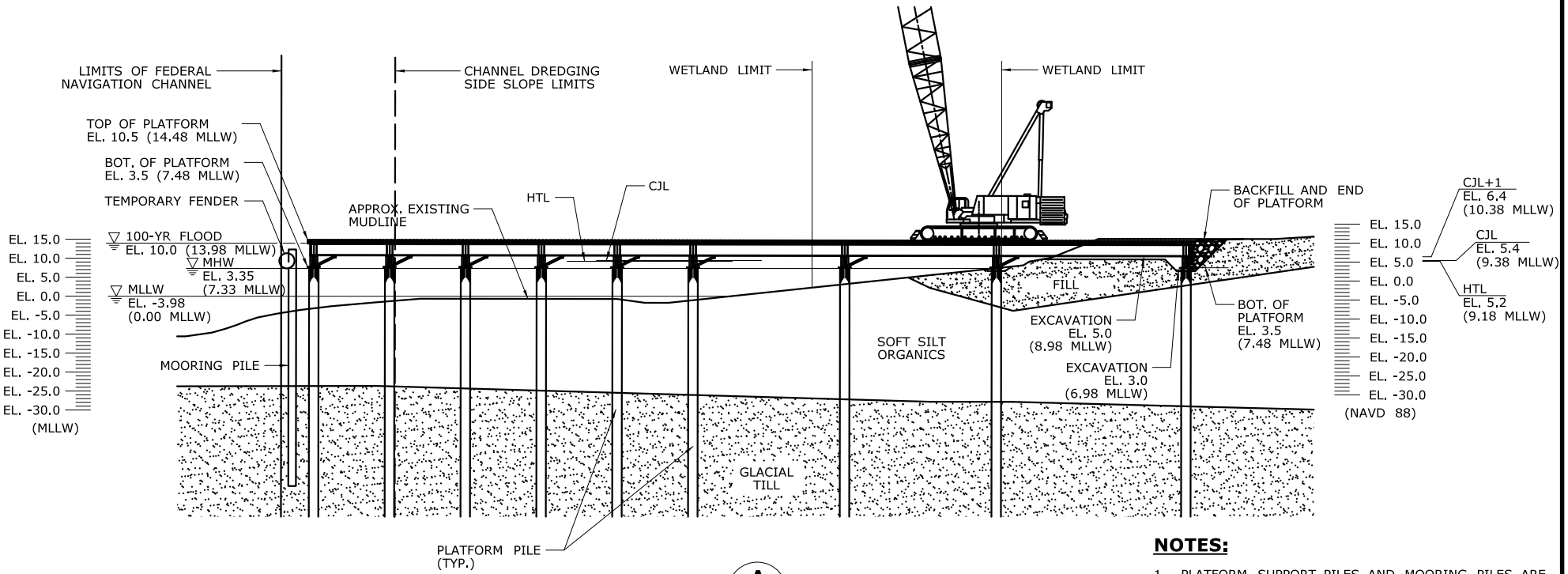
DRAWN: T. ADINOLFI
CHECKED: V. ROBBINS
APPROVED: C. BROWN

SIGNATURE BLOCK:

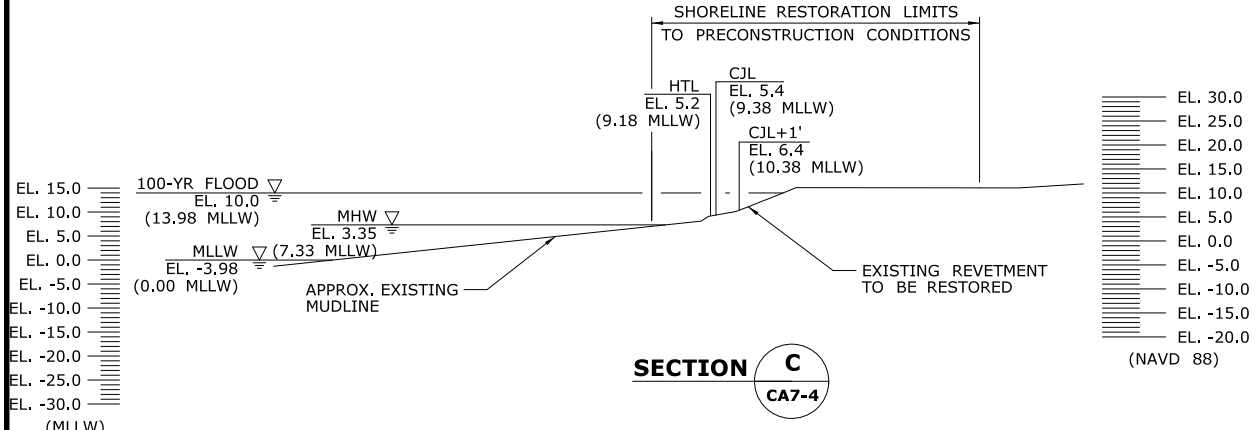
STATE OF CONNECTICUT
DEPARTMENT OF TRANSPORTATION

PROJECT TITLE:
WALK BRIDGE REPLACEMENT OVER THE NORWALK RIVER BRIDGE NO. 04288R/MP 41.5

TOWN: **NORWALK**
PROJECT NO.: **0301-0176**
DRAWING TITLE: **ACTIVITY 7 NORTHEAST TRESTLE (SHEET 4 OF 6)**
DATE: **REV 02-23-21**
DRAWING NO.: **CA7-4**



SECTION A CA7-3



SECTION C CA7-4

NOTES:

1. PLATFORM SUPPORT PILES AND MOORING PILES ARE ANTICIPATED TO BE 36" (MAX.) DIAMETER PIPE PILES.
2. VERTICAL DATUM IS NAVD 88. ELEVATIONS RELATIVE TO MLLW TIDAL DATUM ARE SHOWN IN PARENTHESES.
3. WORKING SURFACE IS AT ELEVATION 10.5 (14.48 MLLW).
4. SHORELINE RESTORATION TO MATCH EXISTING TREATMENT, SIDE-SLOPE, AND ELEVATION BASED ON PREICONSTRUCTION CONDITIONS AND ADJACENT SHORELINE NOT DISTURBED BY CONSTRUCTION ACTIVITY.
5. GEOTEXTILE FILTER FABRIC WILL BE USED IF FILL IS PLACED BELOW THE HIGH TIDE LINE.

ELEVATION TABLE

DESCRIPTION	CONTOUR	ELEVATION (NAVD88)	ELEVATION (MLLW)
100-YEAR FLOODPLAIN	100 YR	10.0	13.98
MAX. ELEVATION OF LAND CAPABLE OF SUPPORTING TIDAL VEGETATION	CJL+1	6.4	10.38
CT COASTAL JURISDICTION LINE	CJL	5.4	9.38
HIGH TIDE LINE	HTL	5.2	9.18
MEAN HIGH WATER LINE	MHW	3.35	7.33
MEAN LOW WATER LINE	MLW	-3.72	0.26
MEAN LOWER LOW WATER LINE	MLLW	-3.98	0

SCALE: SCALE IN FEET 0 20 40 SCALE 1"=40'

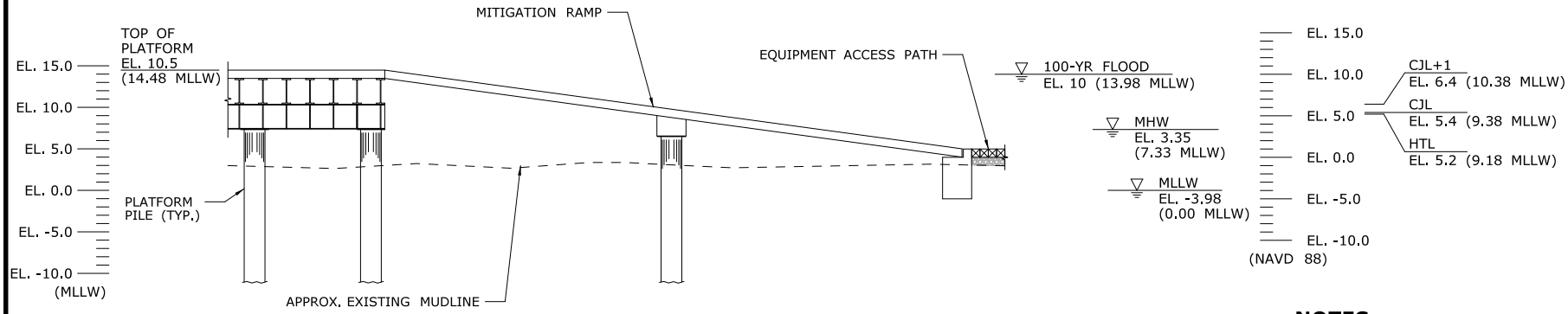
DRAWN: T. ADINOLFI
CHECKED: V. ROBBINS
APPROVED: C. BROWN

SIGNATURE BLOCK:

STATE OF CONNECTICUT
DEPARTMENT OF TRANSPORTATION

PROJECT TITLE:
WALK BRIDGE REPLACEMENT OVER THE NORWALK RIVER BRIDGE NO. 04288R/MP 41.5

TOWN: **NORWALK**
PROJECT NO.: **0301-0176**
DRAWING TITLE: **ACTIVITY 7 NORTHEAST TRESTLE (SHEET 5 OF 6)**
DATE: **REV 7-31-20**
DRAWING NO.: **CA7-5**



SECTION B CA7-3

NOTES:

1. PLATFORM SUPPORT PILES AND MOORING PILES ARE ANTICIPATED TO BE 36" (MAX.) DIAMETER PIPE PILES.
2. VERTICAL DATUM IS NAVD 88. ELEVATIONS RELATIVE TO MLLW TIDAL DATUM ARE SHOWN IN PARENTHESES.

ELEVATION TABLE			
DESCRIPTION	CONTOUR	ELEVATION (NAVD88)	ELEVATION (MLLW)
100-YEAR FLOODPLAIN	100 YR	10.0	13.98
MAX. ELEVATION OF LAND CAPABLE OF SUPPORTING TIDAL VEGETATION	CJL+1	6.4	10.38
CT COASTAL JURISDICTION LINE	CJL	5.4	9.38
HIGH TIDE LINE	HTL	5.2	9.18
MEAN HIGH WATER LINE	MHW	3.35	7.33
MEAN LOW WATER LINE	MLW	-3.72	0.26
MEAN LOWER LOW WATER LINE	MLLW	-3.98	0

SCALE: SCALE IN FEET 0 10 20 SCALE 1"=20'

DRAWN: T. ADINOLFI

CHECKED: V. ROBBINS

APPROVED: C. BROWN

SIGNATURE BLOCK:

STATE OF CONNECTICUT
DEPARTMENT OF TRANSPORTATION

PROJECT TITLE:
WALK BRIDGE REPLACEMENT OVER THE NORWALK RIVER BRIDGE NO. 04288R/MP 41.5

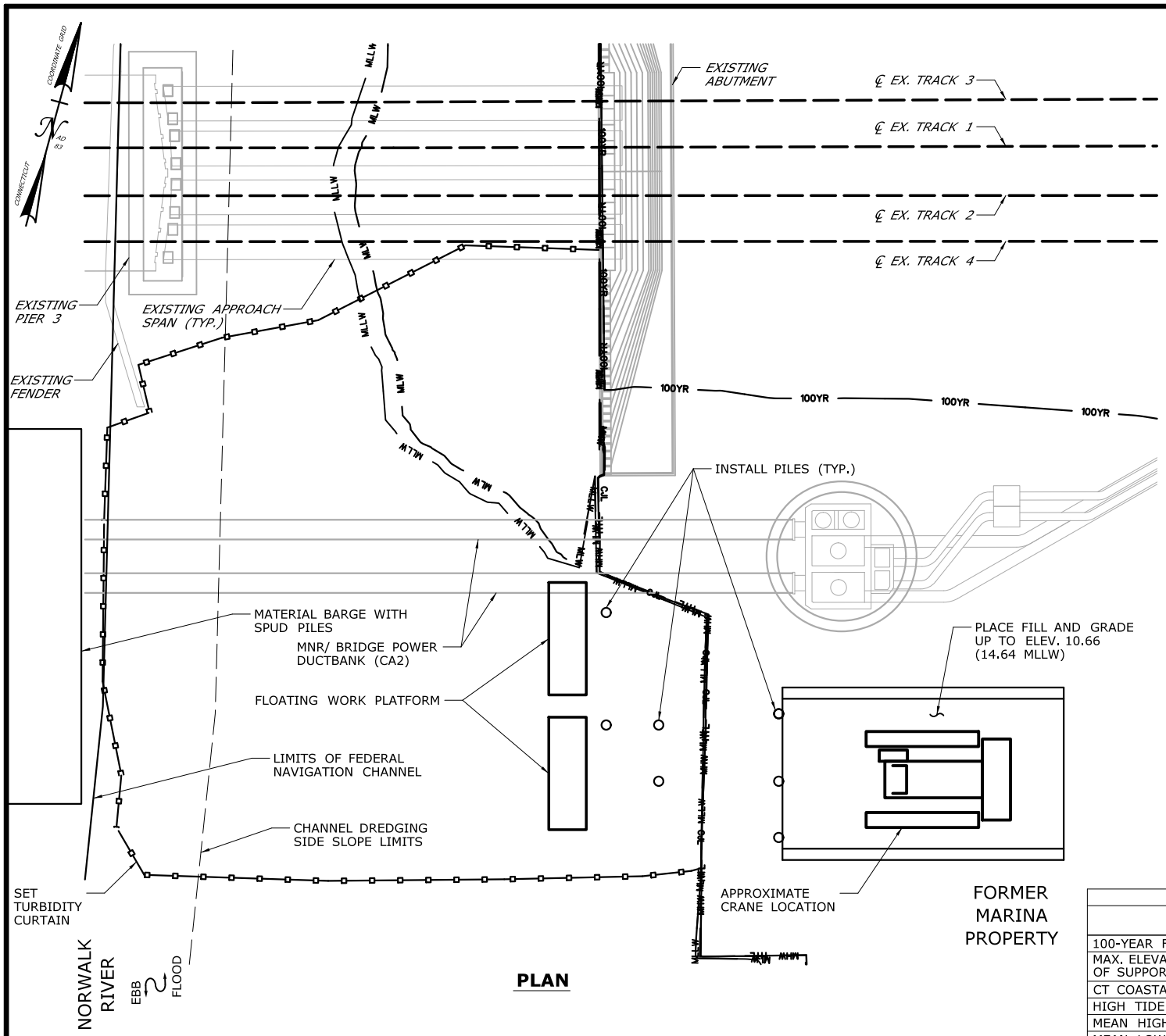
TOWN: **NORWALK**

PROJECT NO.: **0301-0176**

DRAWING TITLE: **ACTIVITY 7 NORTHEAST TRESTLE (SHEET 6 OF 6)**

DATE: **REV 7-31-20**

DRAWING NO.: **CA7-6**



PLAN

CONSTRUCTION SEQUENCE

THE SHEETS IN THIS SUBSET DESCRIBE THE SEQUENCE OF ACTIVITIES REQUIRED TO BUILD THE SOUTHEAST TRESTLE WITH REFERENCES TO RELATED ACTIVITIES THROUGHOUT. FOR DETAILS OF RELATED ACTIVITIES, REFER TO THE SUBSETS NOTED IN PARENTHESES. WORK DEPICTED ON THIS SHEET IS IDENTIFIED WITH AN "X" IN THE TABLE.

	WORK DESCRIPTION
X	SET TURBIDITY CURTAIN.
X	PLACE FILL AND GRADE UP TO PLATFORM ELEVATION.
X	INSTALL PILES TO SUPPORT FIRST SECTION OF TRESTLE PLATFORM.
	CONSTRUCT CAP BEAMS AND PLATFORM FOR FIRST SECTION OF TRESTLE.
	INSTALL REMAINING PILES, CONSTRUCT CAP BEAMS, AND CONSTRUCT PLATFORM INTERMITTENTLY TO COMPLETE THE PLATFORM.
	INSTALL MOORING PILES AND TEMPORARY FENDER SYSTEM.
	SET TURBIDITY CURTAIN. REMOVE TEMPORARY FENDER SYSTEM, MOORING PILES, AND TRESTLE IN REVERSE ORDER FROM INSTALLATION.
	REMOVE REMAINDER OF MARINE ENCLOSURE FROM PROPOSED PIER 3.
	RESTORE SITE TO PRE-CONSTRUCTION CONDITIONS.

NOTES:

1. SPUD PILES, PLATFORM SUPPORT PILES, AND MOORING PILES ARE ANTICIPATED TO BE 36" (MAX.) DIAMETER PIPE PILES.
2. VERTICAL DATUM IS NAVD 88. ELEVATIONS RELATIVE TO MLLW TIDAL DATUM ARE SHOWN IN PARENTHESES.
3. SEE VESSEL BERTHING PLAN (DWG. GEN-9) FOR TYPICAL BARGE SIZES.
4. THIS ACTIVITY IS CONTAINED ENTIRELY WITHIN THE 100-YR FLOODPLAIN.

ELEVATION TABLE			
DESCRIPTION	CONTOUR	ELEVATION (NAVD88)	ELEVATION (MLLW)
100-YEAR FLOODPLAIN	100 YR	12.0	15.98
MAX. ELEVATION OF LAND CAPABLE OF SUPPORTING TIDAL VEGETATION	CJL+1	6.4	10.38
CT COASTAL JURISDICTION LINE	CJL	5.4	9.38
HIGH TIDE LINE	HTL	5.2	9.18
MEAN HIGH WATER LINE	MHW	3.35	7.33
MEAN LOW WATER LINE	MLW	-3.72	0.26
MEAN LOWER LOW WATER LINE	MLLW	-3.98	0

SCALE: SCALE IN FEET 0 20 40 SCALE 1"=40'

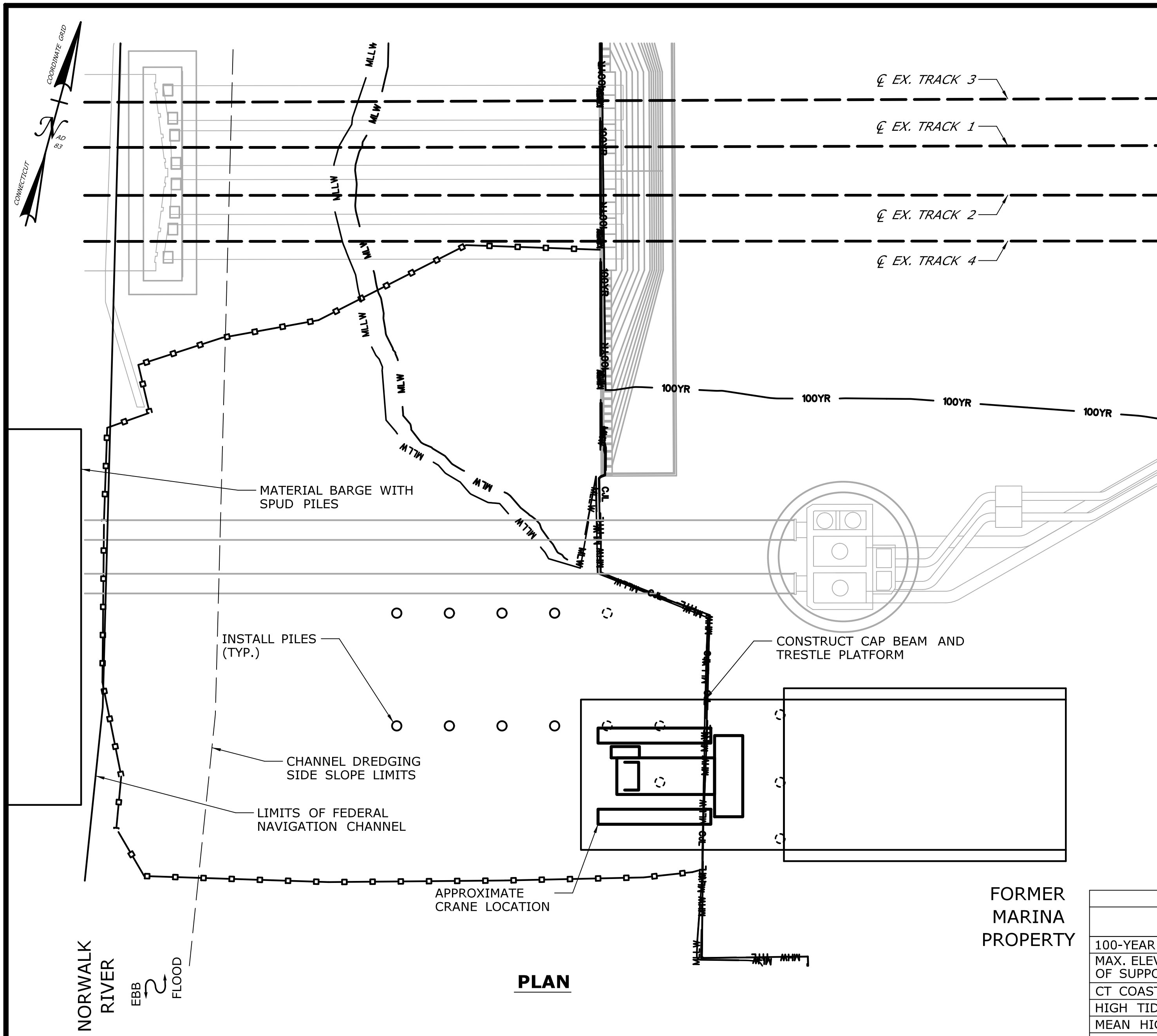
DRAWN: T. ADINOLFI
CHECKED: V. ROBBINS
APPROVED: C. BROWN

SIGNATURE BLOCK:

STATE OF CONNECTICUT
DEPARTMENT OF TRANSPORTATION

PROJECT TITLE:
WALK BRIDGE REPLACEMENT OVER THE NORWALK RIVER BRIDGE NO. 04288R/MP 41.5

TOWN: **NORWALK**
PROJECT NO.: **0301-0176**
DRAWING TITLE: **ACTIVITY 8 SOUTHEAST TRESTLE (SHEET 1 OF 5)**
DATE: **REV 05-19-21**
DRAWING NO.: **CA8-1**



PLAN

CONSTRUCTION SEQUENCE

THE SHEETS IN THIS SUBSET DESCRIBE THE SEQUENCE OF ACTIVITIES REQUIRED TO BUILD THE SOUTHEAST TRESTLE WITH REFERENCES TO RELATED ACTIVITIES THROUGHOUT. FOR DETAILS OF RELATED ACTIVITIES, REFER TO THE SUBSETS NOTED IN PARENTHESES. WORK DEPICTED ON THIS SHEET IS IDENTIFIED WITH AN "X" IN THE TABLE.

	WORK DESCRIPTION
	SET TURBIDITY CURTAIN.
	PLACE FILL AND GRADE UP TO PLATFORM ELEVATION.
	INSTALL PILES TO SUPPORT FIRST SECTION OF TRESTLE PLATFORM.
X	CONSTRUCT CAP BEAMS AND PLATFORM FOR FIRST SECTION OF TRESTLE.
X	INSTALL REMAINING PILES, CONSTRUCT CAP BEAMS, AND CONSTRUCT PLATFORM INTERMITTENTLY TO COMPLETE THE PLATFORM.
	INSTALL MOORING PILES AND TEMPORARY FENDER SYSTEM.
	SET TURBIDITY CURTAIN. REMOVE TEMPORARY FENDER SYSTEM, MOORING PILES, AND TRESTLE IN REVERSE ORDER FROM INSTALLATION.
	REMOVE REMAINDER OF MARINE ENCLOSURE FROM PROPOSED PIER 3.
	RESTORE SITE TO PRE-CONSTRUCTION CONDITIONS.

NOTES:

1. SPUD PILES, PLATFORM SUPPORT PILES, AND MOORING PILES ARE ANTICIPATED TO BE 36" (MAX.) DIAMETER PIPE PILES.
2. VERTICAL DATUM IS NAVD 88. ELEVATIONS RELATIVE TO MLLW TIDAL DATUM ARE SHOWN IN PARENTHESES.
3. TOP OF PLATFORM ELEV. 10.66 (14.64 MLLW).
4. SEE VESSEL BERTHING PLAN (DWG. GEN-9) FOR TYPICAL BARGE SIZES.
5. THIS ACTIVITY IS CONTAINED ENTIRELY WITHIN THE 100-YR FLOODPLAIN.

ELEVATION TABLE

DESCRIPTION	CONTOUR	ELEVATION (NAVD88)	ELEVATION (MLLW)
100-YEAR FLOODPLAIN	100 YR	12.0	15.98
MAX. ELEVATION OF LAND CAPABLE OF SUPPORTING TIDAL VEGETATION	CJL+1	6.4	10.38
CT COASTAL JURISDICTION LINE	CJL	5.4	9.38
HIGH TIDE LINE	HTL	5.2	9.18
MEAN HIGH WATER LINE	MHW	3.35	7.33
MEAN LOW WATER LINE	MLW	-3.72	0.26
MEAN LOWER LOW WATER LINE	MLLW	-3.98	0

SCALE: SCALE IN FEET 0 20 40 SCALE 1"=40'

DRAWN: T. ADINOLFI
CHECKED: V. ROBBINS
APPROVED: C. BROWN

SIGNATURE BLOCK:

STATE OF CONNECTICUT DEPARTMENT OF TRANSPORTATION

PROJECT TITLE: WALK BRIDGE REPLACEMENT OVER THE NORWALK RIVER BRIDGE NO. 04288R/MP 41.5

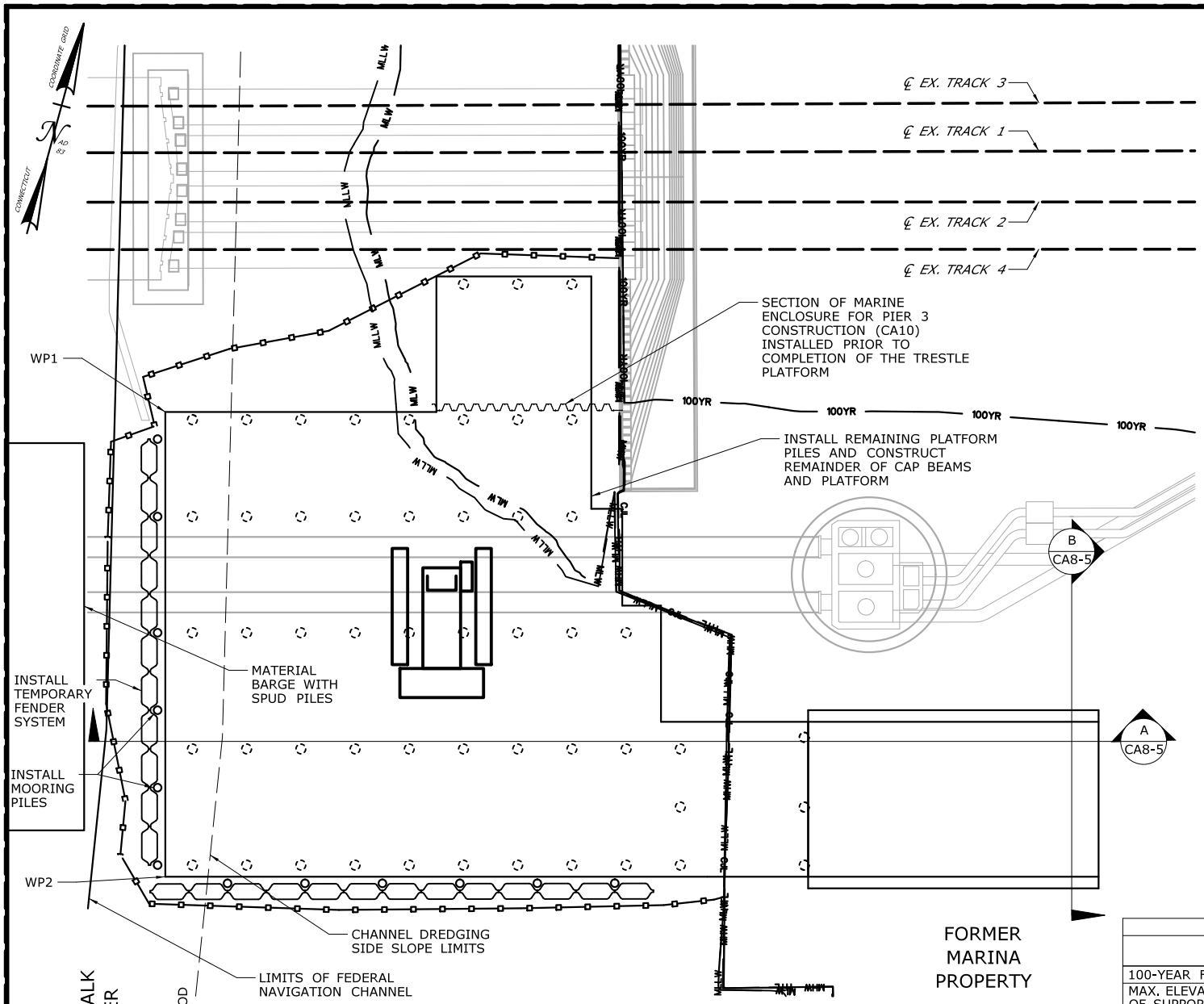
TOWN: NORWALK

DRAWING TITLE: ACTIVITY 8 SOUTHEAST TRESTLE (SHEET 2 OF 5)

PROJECT NO.: 0301-0176

DATE: REV 05-19-21

DRAWING NO.: CA8-2



PLAN

WORKING POINT	NORTHING	EASTING
WP1	598,003	816,752
WP2	597,887	816,783

CONSTRUCTION SEQUENCE

THE SHEETS IN THIS SUBSET DESCRIBE THE SEQUENCE OF ACTIVITIES REQUIRED TO BUILD THE SOUTHEAST TRESTLE WITH REFERENCES TO RELATED ACTIVITIES THROUGHOUT. FOR DETAILS OF RELATED ACTIVITIES, REFER TO THE SUBSETS NOTED IN PARENTHESES. WORK DEPICTED ON THIS SHEET IS IDENTIFIED WITH AN "X" IN THE TABLE.

	WORK DESCRIPTION
	SET TURBIDITY CURTAIN.
	PLACE FILL AND GRADE UP TO PLATFORM ELEVATION.
	INSTALL PILES TO SUPPORT FIRST SECTION OF TRESTLE PLATFORM.
	CONSTRUCT CAP BEAMS AND PLATFORM FOR FIRST SECTION OF TRESTLE.
X	INSTALL REMAINING PILES, CONSTRUCT CAP BEAMS, AND CONSTRUCT PLATFORM INTERMITTENTLY TO COMPLETE THE PLATFORM.
X	INSTALL MOORING PILES AND TEMPORARY FENDER SYSTEM.
	SET TURBIDITY CURTAIN. REMOVE TEMPORARY FENDER SYSTEM, MOORING PILES, AND TRESTLE IN REVERSE ORDER FROM INSTALLATION.
	REMOVE REMAINDER OF MARINE ENCLOSURE FROM PROPOSED PIER 3.
	RESTORE SITE TO PRE-CONSTRUCTION CONDITIONS.

NOTES:

1. SPUD PILES, PLATFORM SUPPORT PILES, AND MOORING PILES ARE ANTICIPATED TO BE 36" (MAX.) DIAMETER PIPE PILES.
2. VERTICAL DATUM IS NAVD 88. ELEVATIONS RELATIVE TO MLLW TIDAL DATUM ARE SHOWN IN PARENTHESES.
3. TOP OF PLATFORM ELEV. 10.66 (14.64 MLLW).
4. LIMITS OF TEMPORARY FENDER SYSTEM AND TEMPORARY AIDS TO NAVIGATION (E.G., LIGHTING) WILL BE COORDINATED WITH THE USCG.
5. FOLLOWING COMPLETION OF ALL PILE-DRIVING ACTIVITIES AND THE TURBIDITY HAS SETTLED TO THE PRE-CONSTRUCTION CONDITIONS, THE TURBIDITY CURTAIN WILL BE REMOVED.
6. SEE VESSEL BERTHING PLAN (DWG. GEN-9) FOR TYPICAL BARGE SIZES.
7. THIS ACTIVITY IS CONTAINED ENTIRELY WITHIN THE 100-YR FLOODPLAIN.

ELEVATION TABLE

DESCRIPTION	CONTOUR	ELEVATION (NAVD88)	ELEVATION (MLLW)
100-YEAR FLOODPLAIN	100 YR	12.0	15.98
MAX. ELEVATION OF LAND CAPABLE OF SUPPORTING TIDAL VEGETATION	CJL+1	6.4	10.38
CT COASTAL JURISDICTION LINE	CJL	5.4	9.38
HIGH TIDE LINE	HTL	5.2	9.18
MEAN HIGH WATER LINE	MHW	3.35	7.33
MEAN LOW WATER LINE	MLW	-3.72	0.26
MEAN LOWER LOW WATER LINE	MLLW	-3.98	0

SCALE: SCALE IN FEET 0 20 40 SCALE 1"=40'

DRAWN: T. ADINOLFI
CHECKED: V. ROBBINS
APPROVED: C. BROWN

SIGNATURE BLOCK:

STATE OF CONNECTICUT
DEPARTMENT OF TRANSPORTATION

PROJECT TITLE: **WALK BRIDGE REPLACEMENT OVER THE NORWALK RIVER BRIDGE NO. 04288R/MP 41.5**

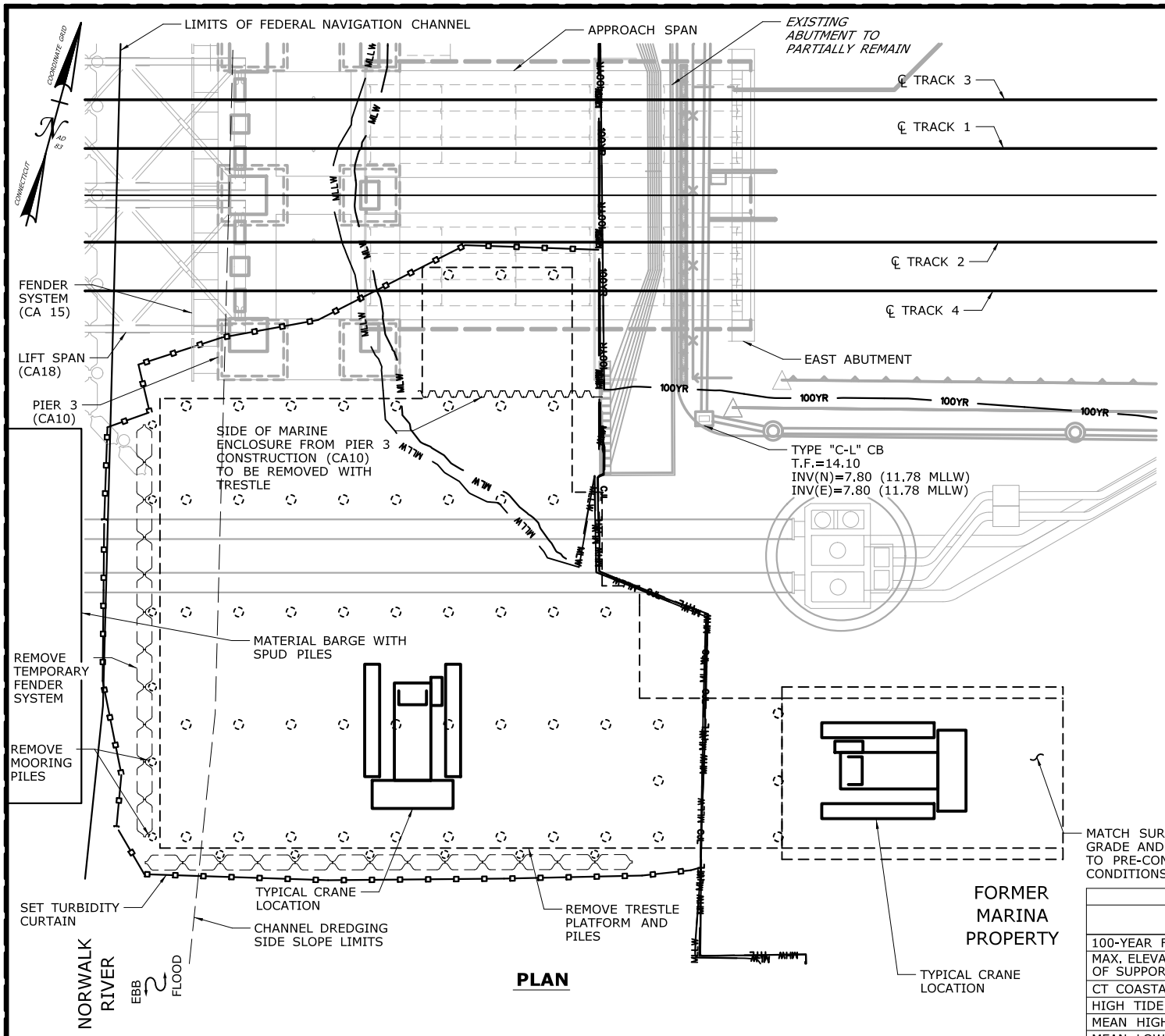
TOWN: **NORWALK**

PROJECT NO.: **0301-0176**

DRAWING TITLE: **ACTIVITY 8 SOUTHEAST TRESTLE (SHEET 3 OF 5)**

DATE: **REV 05-19-21**

DRAWING NO.: **CA8-3**



CONSTRUCTION SEQUENCE

THE SHEETS IN THIS SUBSET DESCRIBE THE SEQUENCE OF ACTIVITIES REQUIRED TO BUILD THE SOUTHEAST TRESTLE WITH REFERENCES TO RELATED ACTIVITIES THROUGHOUT. FOR DETAILS OF RELATED ACTIVITIES, REFER TO THE SUBSETS NOTED IN PARENTHESES. WORK DEPICTED ON THIS SHEET IS IDENTIFIED WITH AN "X" IN THE TABLE.

	WORK DESCRIPTION
	SET TURBIDITY CURTAIN.
	PLACE FILL AND GRADE UP TO PLATFORM ELEVATION.
	INSTALL PILES TO SUPPORT FIRST SECTION OF TRESTLE PLATFORM.
	CONSTRUCT CAP BEAMS AND PLATFORM FOR FIRST SECTION OF TRESTLE.
	INSTALL REMAINING PILES, CONSTRUCT CAP BEAMS, AND CONSTRUCT PLATFORM INTERMITTENTLY TO COMPLETE THE PLATFORM.
	INSTALL MOORING PILES AND TEMPORARY FENDER SYSTEM.
X	SET TURBIDITY CURTAIN. REMOVE TEMPORARY FENDER SYSTEM, MOORING PILES, AND TRESTLE IN REVERSE ORDER FROM INSTALLATION.
X	REMOVE REMAINDER OF MARINE ENCLOSURE FROM PROPOSED PIER 3.
X	RESTORE SITE TO PRE-CONSTRUCTION CONDITIONS.

NOTES:

1. SPUD PILES, PLATFORM SUPPORT PILES, AND MOORING PILES ARE ANTICIPATED TO BE 36" (MAX.) DIAMETER PIPE PILES.
2. VERTICAL DATUM IS NAVD 88. ELEVATIONS RELATIVE TO MLLW TIDAL DATUM ARE SHOWN IN PARENTHESES.
3. TOP OF PLATFORM ELEV. 10.66 (14.64 MLLW).
4. SEE VESSEL BERTHING PLAN (DWG. GEN-9) FOR TYPICAL BARGE SIZES.
5. THIS ACTIVITY IS CONTAINED ENTIRELY WITHIN THE 100-YR FLOODPLAIN.

ELEVATION TABLE

DESCRIPTION	CONTOUR	ELEVATION (NAVD88)	ELEVATION (MLLW)
100-YEAR FLOODPLAIN	100 YR	12.0	15.98
MAX. ELEVATION OF LAND CAPABLE OF SUPPORTING TIDAL VEGETATION	CJL+1	6.4	10.38
CT COASTAL JURISDICTION LINE	CJL	5.4	9.38
HIGH TIDE LINE	HTL	5.2	9.18
MEAN HIGH WATER LINE	MHW	3.35	7.33
MEAN LOW WATER LINE	MLW	-3.72	0.26
MEAN LOWER LOW WATER LINE	MLLW	-3.98	0

SCALE: SCALE IN FEET 0 20 40 SCALE 1"=40'

DRAWN: T. ADINOLFI
CHECKED: V. ROBBINS
APPROVED: C. BROWN

SIGNATURE BLOCK:

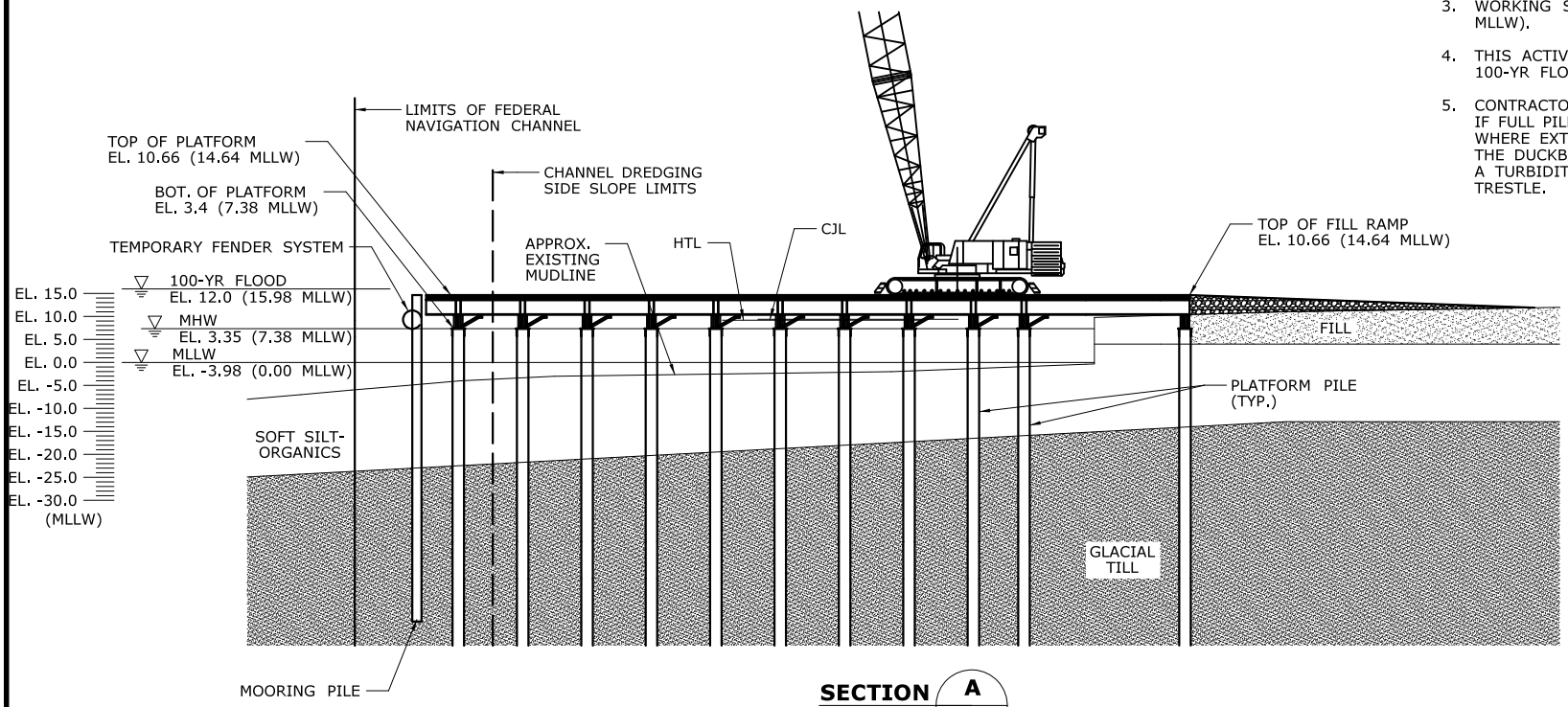
STATE OF CONNECTICUT
DEPARTMENT OF TRANSPORTATION

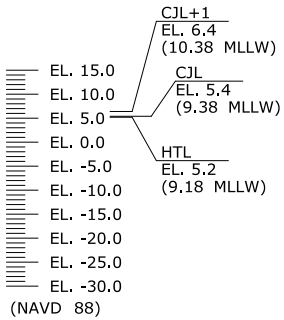
PROJECT TITLE:
WALK BRIDGE REPLACEMENT OVER THE NORWALK RIVER BRIDGE NO. 04288R/MP 41.5

TOWN: **NORWALK**
PROJECT NO.: **0301-0176**
DRAWING TITLE: **ACTIVITY 8 SOUTHEAST TRESTLE (SHEET 4 OF 5)**
DATE: **REV 05-19-21**
DRAWING NO.: **CA8-4**

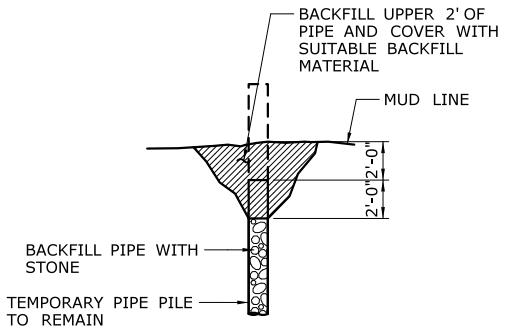
NOTES:

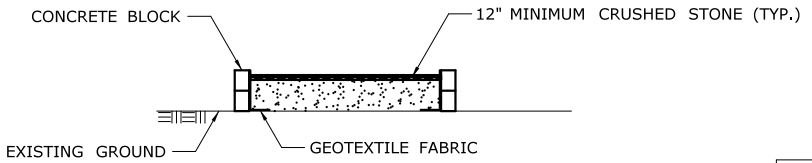
1. PLATFORM SUPPORT PILES AND MOORING PILES ARE ANTICIPATED TO BE 36" (MAX.) DIAMETER PIPE PILES.
2. VERTICAL DATUM IS NAVD 88. ELEVATIONS RELATIVE TO MLLW TIDAL DATUM ARE SHOWN IN PARENTHESES.
3. WORKING SURFACE IS AT ELEVATION 10.66 (14.64 MLLW).
4. THIS ACTIVITY IS CONTAINED ENTIRELY WITHIN THE 100-YR FLOODPLAIN.
5. CONTRACTOR SHALL ONLY USE CUT-OFF PILE DETAIL IF FULL PILE EXTRACTION IS NOT POSSIBLE OR WHERE EXTRACTION HAS POTENTIAL TO COMPROMISE THE DUCKBANK. WORK SHALL BE PERFORMED WITHIN A TURBIDITY CURTAIN FROM EITHER LAND OR THE TRESTLE.





SECTION A CA8-3





SECTION B CA8-3

CUT-OFF PILE DETAIL
N.T.S.

ELEVATION TABLE			
DESCRIPTION	CONTOUR	ELEVATION (NAVD88)	ELEVATION (MLLW)
100-YEAR FLOODPLAIN	100 YR	12.0	15.98
MAX. ELEVATION OF LAND CAPABLE OF SUPPORTING TIDAL VEGETATION	CJL+1	6.4	10.38
CT COASTAL JURISDICTION LINE	CJL	5.4	9.38
HIGH TIDE LINE	HTL	5.2	9.18
MEAN HIGH WATER LINE	MHW	3.35	7.33
MEAN LOW WATER LINE	MLW	-3.72	0.26
MEAN LOWER LOW WATER LINE	MLLW	-3.98	0

SCALE: SCALE IN FEET 0 20 40 SCALE 1"=40' (EXCEPT AS NOTED)

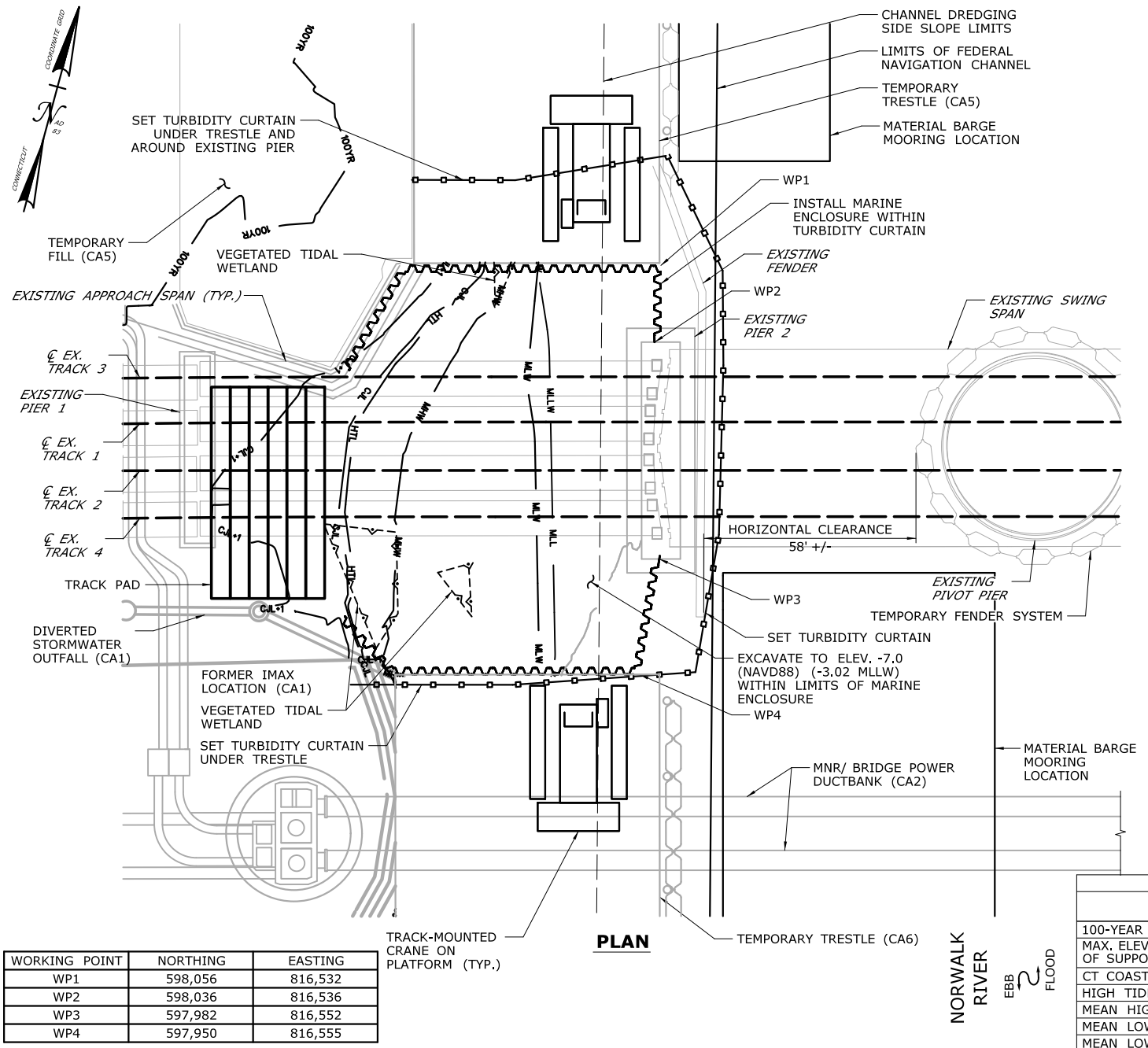
DRAWN: T. ADINOLFI
CHECKED: V. ROBBINS
APPROVED: C. BROWN

SIGNATURE BLOCK:

STATE OF CONNECTICUT
DEPARTMENT OF TRANSPORTATION

PROJECT TITLE: **WALK BRIDGE REPLACEMENT OVER THE NORWALK RIVER BRIDGE NO. 04288R/MP 41.5**

TOWN: **NORWALK**
PROJECT NO.: **0301-0176**
DRAWING TITLE: **ACTIVITY 8 SOUTHEAST TRESTLE (SHEET 5 OF 5)**
DATE: **REV 7-31-20**
DRAWING NO.: **CA8-5**



PLAN

WORKING POINT	NORTHING	EASTING
WP1	598,056	816,532
WP2	598,036	816,536
WP3	597,982	816,552
WP4	597,950	816,555

CONSTRUCTION SEQUENCE

THE SHEETS IN THIS SUBSET DESCRIBE THE SEQUENCE OF ACTIVITIES REQUIRED TO BUILD PIER 2 WITH REFERENCES TO RELATED ACTIVITIES THROUGHOUT. FOR DETAILS OF RELATED ACTIVITIES, REFER TO THE SUBSETS NOTED IN PARENTHESES. WORK DEPICTED ON THIS SHEET IS IDENTIFIED WITH AN "X" IN THE TABLE.

	WORK DESCRIPTION
X	CLOSE WEST CHANNEL TO NAVIGATION.
X	SET TURBIDITY CURTAIN AND INSTALL MARINE ENCLOSURE.
X	EXCAVATE WITHIN MARINE ENCLOSURE.
	INSTALL TEMPORARY PILES AND UNDER-BRIDGE WORK PLATFORM.
	INSTALL DRILLED SHAFTS OUTSIDE THE LIMITS OF THE EXISTING BRIDGE AND INSTALL MICROPILES BENEATH THE EXISTING BRIDGE.
	REMOVE TEMPORARY PILES OUTSIDE THE LIMITS OF THE EXISTING BRIDGE.
	CONSTRUCT CONCRETE CAPS AND INSTALL PRECAST CONCRETE TUBS AT FOUNDATIONS.
	FORM, SET REINFORCING STEEL, AND POUR THE CONCRETE PIER SLAB.
	REMOVE THE UNDER-BRIDGE WORK PLATFORM AND CUT-OFF THE REMAINING TEMPORARY PILES.
	FORM, SET REINFORCING STEEL AND ANCHOR BOLTS, AND POUR THE REMAINING PIER CONCRETE ABOVE THE SLAB.
	INSTALL SUBMARINE CABLES AND TERMINAL BOXES (SEE ACTIVITY 2).

NOTES:

1. VERTICAL DATUM IS NAVD 88. ELEVATIONS RELATIVE TO MLLW TIDAL DATUM ARE SHOWN IN PARENTHESES.
2. TOP OF MARINE ENCLOSURE WILL BE INSTALLED TO ELEV. 6.2 (MIN.) (10.18 MLLW), 1 FOOT ABOVE HIGH TIDE LINE.
3. EXCAVATED MATERIAL AND DEWATERED WASTEWATERS SHALL BE MANAGED IN ACCORDANCE WITH THE ENVIRONMENTAL SPECIAL PROVISIONS AND CTDEEP REQUIREMENTS.
4. SEE VESSEL BERTHING PLAN (DWG. GEN-9) FOR TYPICAL BARGE SIZES.

ELEVATION TABLE

DESCRIPTION	CONTOUR	ELEVATION (NAVD88)	ELEVATION (MLLW)
100-YEAR FLOODPLAIN	100 YR	10.0/12.0	13.98/15.98
MAX. ELEVATION OF LAND CAPABLE OF SUPPORTING TIDAL VEGETATION	CJL+1	6.4	10.38
CT COASTAL JURISDICTION LINE	CJL	5.4	9.38
HIGH TIDE LINE	HTL	5.2	9.18
MEAN HIGH WATER LINE	MHW	3.35	7.33
MEAN LOW WATER LINE	MLW	-3.72	0.26
MEAN LOWER LOW WATER LINE	MLLW	-3.98	0

SCALE: SCALE IN FEET 0 20 40 SCALE 1"=40'

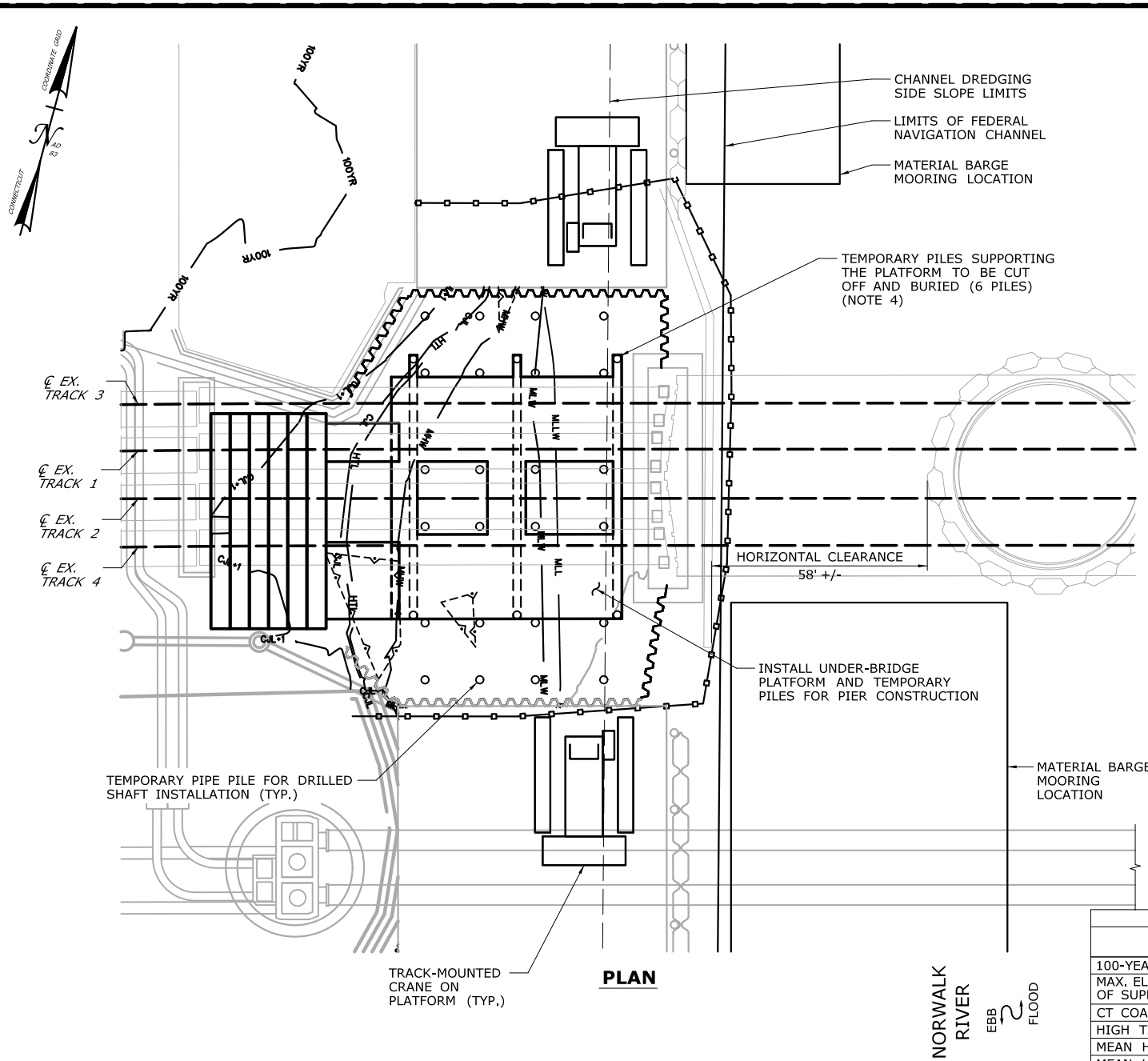
DRAWN: T. ADINOLFI
CHECKED: V. ROBBINS
APPROVED: C. BROWN

SIGNATURE BLOCK:

STATE OF CONNECTICUT
DEPARTMENT OF TRANSPORTATION

PROJECT TITLE:
WALK BRIDGE REPLACEMENT OVER THE NORWALK RIVER BRIDGE NO. 04288R/MP 41.5

TOWN: **NORWALK**
PROJECT NO.: **0301-0176**
DRAWING TITLE: **ACTIVITY 9 PIER 2 CONSTRUCTION (SHEET 1 OF 7)**
DATE: **REV 05-19-21**
DRAWING NO.: **CA9-1**



PLAN

CONSTRUCTION SEQUENCE

THE SHEETS IN THIS SUBSET DESCRIBE THE SEQUENCE OF ACTIVITIES REQUIRED TO BUILD PIER 2 WITH REFERENCES TO RELATED ACTIVITIES THROUGHOUT. FOR DETAILS OF RELATED ACTIVITIES, REFER TO THE SUBSETS NOTED IN PARENTHESES. WORK DEPICTED ON THIS SHEET IS IDENTIFIED WITH AN "X" IN THE TABLE.

	WORK DESCRIPTION
	CLOSE WEST CHANNEL TO NAVIGATION.
	SET TURBIDITY CURTAIN AND INSTALL MARINE ENCLOSURE.
	EXCAVATE WITHIN MARINE ENCLOSURE.
X	INSTALL TEMPORARY PILES AND UNDER-BRIDGE WORK PLATFORM.
	INSTALL DRILLED SHAFTS OUTSIDE THE LIMITS OF THE EXISTING BRIDGE AND INSTALL MICROPILES BENEATH THE EXISTING BRIDGE.
	REMOVE TEMPORARY PILES OUTSIDE THE LIMITS OF THE EXISTING BRIDGE.
	CONSTRUCT CONCRETE CAPS AND INSTALL PRECAST CONCRETE TUBS AT FOUNDATIONS.
	FORM, SET REINFORCING STEEL, AND POUR THE CONCRETE PIER SLAB.
	REMOVE THE UNDER-BRIDGE WORK PLATFORM AND CUT-OFF THE REMAINING TEMPORARY PILES.
	FORM, SET REINFORCING STEEL AND ANCHOR BOLTS, AND POUR THE REMAINING PIER CONCRETE ABOVE THE SLAB.
	INSTALL SUBMARINE CABLES AND TERMINAL BOXES (SEE ACTIVITY 2).

NOTES:

1. VERTICAL DATUM IS NAVD 88. ELEVATIONS RELATIVE TO MLLW TIDAL DATUM ARE SHOWN IN PARENTHESES.
2. TEMPORARY PILES ARE ANTICIPATED TO BE 36" (MAX.) DIAMETER PIPE PILES.
3. ALL TEMPORARY PILES TO BE REMOVED, EXCEPT AS NOTED.
4. TEMPORARY PILES TO BE BACKFILLED WITH STONE FOLLOWING INSTALLATION. SEE CUT-OFF PILE DETAIL ON DWG. CA9-7.
5. SEE VESSEL BERTHING PLAN (DWG. GEN-9) FOR TYPICAL BARGE SIZES.

ELEVATION TABLE

DESCRIPTION	CONTOUR	ELEVATION (NAVD88)	ELEVATION (MLLW)
100-YEAR FLOODPLAIN	100 YR	10.0/12.0	13.98/15.98
MAX. ELEVATION OF LAND CAPABLE OF SUPPORTING TIDAL VEGETATION	CJL+1	6.4	10.38
CT COASTAL JURISDICTION LINE	CJL	5.4	9.38
HIGH TIDE LINE	HTL	5.2	9.18
MEAN HIGH WATER LINE	MHW	3.35	7.33
MEAN LOW WATER LINE	MLW	-3.72	0.26
MEAN LOWER LOW WATER LINE	MLLW	-3.98	0

SCALE: SCALE IN FEET 0 20 40 SCALE 1"=40'

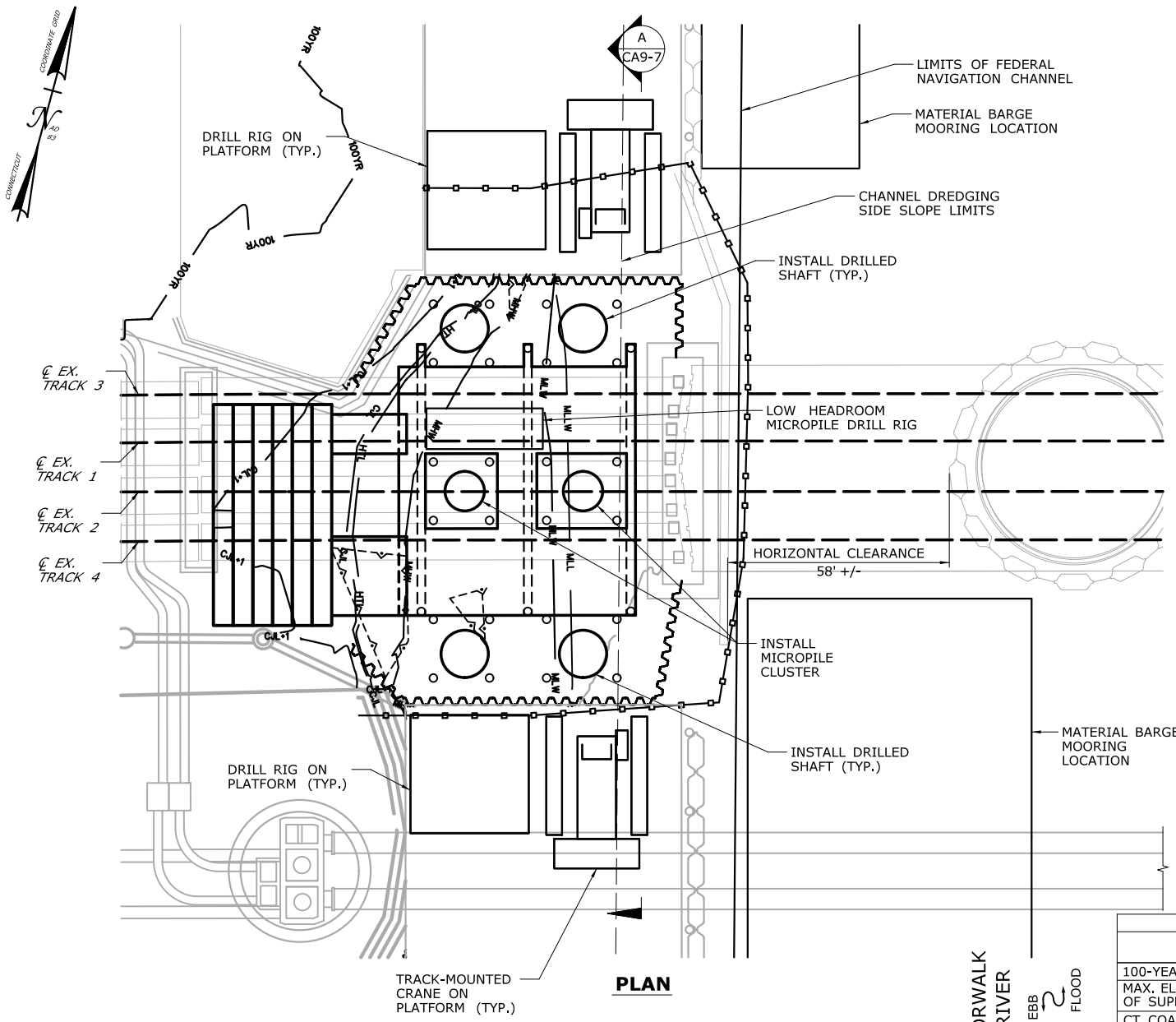
DRAWN: T. ADINOLFI
CHECKED: V. ROBBINS
APPROVED: C. BROWN

SIGNATURE BLOCK:

STATE OF CONNECTICUT
DEPARTMENT OF TRANSPORTATION

PROJECT TITLE:
WALK BRIDGE REPLACEMENT OVER THE NORWALK RIVER BRIDGE NO. 04288R/MP 41.5

TOWN: **NORWALK**
PROJECT NO.: **0301-0176**
DRAWING TITLE: **ACTIVITY 9 PIER 2 CONSTRUCTION (SHEET 2 OF 7)**
DATE: **REV 05-19-21**
DRAWING NO.: **CA9-2**



PLAN

CONSTRUCTION SEQUENCE

THE SHEETS IN THIS SUBSET DESCRIBE THE SEQUENCE OF ACTIVITIES REQUIRED TO BUILD PIER 2 WITH REFERENCES TO RELATED ACTIVITIES THROUGHOUT. FOR DETAILS OF RELATED ACTIVITIES, REFER TO THE SUBSETS NOTED IN PARENTHESES. WORK DEPICTED ON THIS SHEET IS IDENTIFIED WITH AN "X" IN THE TABLE.

	WORK DESCRIPTION
	CLOSE WEST CHANNEL TO NAVIGATION.
	SET TURBIDITY CURTAIN AND INSTALL MARINE ENCLOSURE.
	EXCAVATE WITHIN MARINE ENCLOSURE.
	INSTALL TEMPORARY PILES AND UNDER-BRIDGE WORK PLATFORM.
X	INSTALL DRILLED SHAFTS OUTSIDE THE LIMITS OF THE EXISTING BRIDGE AND INSTALL MICROPILES BENEATH THE EXISTING BRIDGE.
	REMOVE TEMPORARY PILES OUTSIDE THE LIMITS OF THE EXISTING BRIDGE.
	CONSTRUCT CONCRETE CAPS AND INSTALL PRECAST CONCRETE TUBS AT FOUNDATIONS.
	FORM, SET REINFORCING STEEL, AND POUR THE CONCRETE PIER SLAB.
	REMOVE THE UNDER-BRIDGE WORK PLATFORM AND CUT-OFF THE REMAINING TEMPORARY PILES.
	FORM, SET REINFORCING STEEL AND ANCHOR BOLTS, AND POUR THE REMAINING PIER CONCRETE ABOVE THE SLAB.
	INSTALL SUBMARINE CABLES AND TERMINAL BOXES (SEE ACTIVITY 2).

NOTES:

1. VERTICAL DATUM IS NAVD 88. ELEVATIONS RELATIVE TO MLLW TIDAL DATUM ARE SHOWN IN PARENTHESES.
2. EXCAVATED MATERIAL AND DEWATERED WASTEWATERS SHALL BE MANAGED IN ACCORDANCE WITH THE ENVIRONMENTAL SPECIAL PROVISIONS AND CTDEEP REQUIREMENTS.
3. SEE VESSEL BERTHING PLAN (DWG. GEN-9) FOR TYPICAL BARGE SIZES.

ELEVATION TABLE

DESCRIPTION	CONTOUR	ELEVATION (NAVD88)	ELEVATION (MLLW)
100-YEAR FLOODPLAIN	100 YR	10.0/12.0	13.98/15.98
MAX. ELEVATION OF LAND CAPABLE OF SUPPORTING TIDAL VEGETATION	CJL+1	6.4	10.38
CT COASTAL JURISDICTION LINE	CJL	5.4	9.38
HIGH TIDE LINE	HTL	5.2	9.18
MEAN HIGH WATER LINE	MHW	3.35	7.33
MEAN LOW WATER LINE	MLW	-3.72	0.26
MEAN LOWER LOW WATER LINE	MLLW	-3.98	0

SCALE: SCALE IN FEET 0 20 40 SCALE 1"=40'

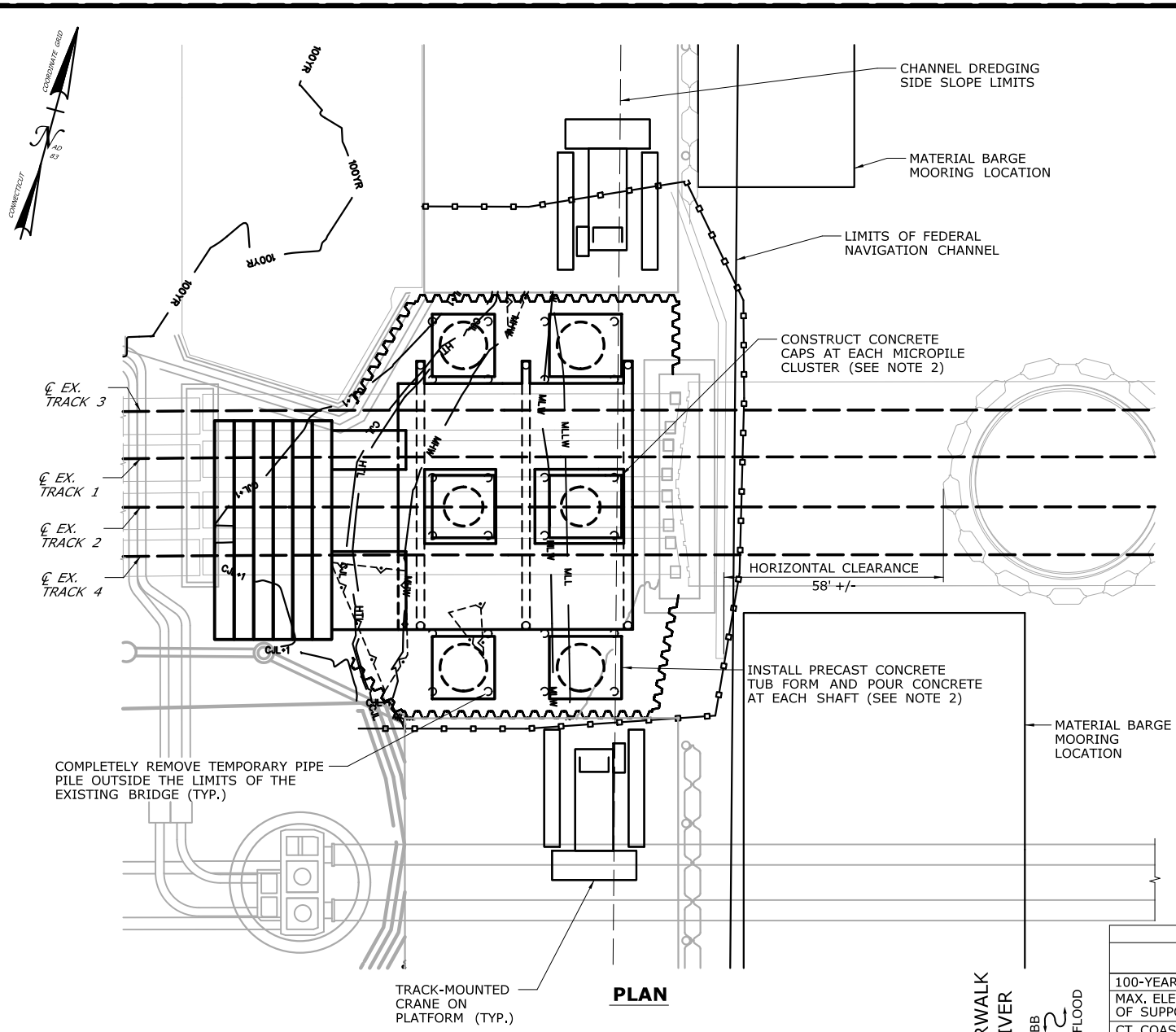
DRAWN: T. ADINOLFI
CHECKED: V. ROBBINS
APPROVED: C. BROWN

SIGNATURE BLOCK:

STATE OF CONNECTICUT
DEPARTMENT OF TRANSPORTATION

PROJECT TITLE:
WALK BRIDGE REPLACEMENT OVER THE NORWALK RIVER BRIDGE NO. 04288R/MP 41.5

TOWN: **NORWALK**
PROJECT NO.: **0301-0176**
DRAWING TITLE: **ACTIVITY 9 PIER 2 CONSTRUCTION (SHEET 3 OF 7)**
DATE: **REV 05-19-21**
DRAWING NO.: **CA9-3**



PLAN

CONSTRUCTION SEQUENCE

THE SHEETS IN THIS SUBSET DESCRIBE THE SEQUENCE OF ACTIVITIES REQUIRED TO BUILD PIER 2 WITH REFERENCES TO RELATED ACTIVITIES THROUGHOUT. FOR DETAILS OF RELATED ACTIVITIES, REFER TO THE SUBSETS NOTED IN PARENTHESES. WORK DEPICTED ON THIS SHEET IS IDENTIFIED WITH AN "X" IN THE TABLE.

	WORK DESCRIPTION
	CLOSE WEST CHANNEL TO NAVIGATION.
	SET TURBIDITY CURTAIN AND INSTALL MARINE ENCLOSURE.
	EXCAVATE WITHIN MARINE ENCLOSURE.
	INSTALL TEMPORARY PILES AND UNDER-BRIDGE WORK PLATFORM.
	INSTALL DRILLED SHAFTS OUTSIDE THE LIMITS OF THE EXISTING BRIDGE AND INSTALL MICROPILES BENEATH THE EXISTING BRIDGE.
X	REMOVE TEMPORARY PILES OUTSIDE THE LIMITS OF THE EXISTING BRIDGE.
X	CONSTRUCT CONCRETE CAPS AND INSTALL PRECAST CONCRETE TUBS AT FOUNDATIONS.
	FORM, SET REINFORCING STEEL, AND POUR THE CONCRETE PIER SLAB.
	REMOVE THE UNDER-BRIDGE WORK PLATFORM AND CUT-OFF THE REMAINING TEMPORARY PILES.
	FORM, SET REINFORCING STEEL AND ANCHOR BOLTS, AND POUR THE REMAINING PIER CONCRETE ABOVE THE SLAB.
	INSTALL SUBMARINE CABLES AND TERMINAL BOXES (SEE ACTIVITY 2).

NOTES:

1. VERTICAL DATUM IS NAVD 88. ELEVATIONS RELATIVE TO MLLW TIDAL DATUM ARE SHOWN IN PARENTHESES.
2. BOTTOM OF CAP ELEVATION IS EL. -5.0 (1.02 MLLW).
3. A CONTAINMENT SHIELD WILL BE USED TO ELIMINATE SPILLAGE OF CONCRETE INTO THE WATER.
4. TEMPORARY PILES ARE ANTICIPATED TO BE 36" (MAX.) DIAMETER PIPE PILES.
5. SEE VESSEL BERTHING PLAN (DWG. GEN-9) FOR TYPICAL BARGE SIZES.

ELEVATION TABLE

DESCRIPTION	CONTOUR	ELEVATION (NAVD88)	ELEVATION (MLLW)
100-YEAR FLOODPLAIN	100 YR	10.0/12.0	13.98/15.98
MAX. ELEVATION OF LAND CAPABLE OF SUPPORTING TIDAL VEGETATION	CJL+1	6.4	10.38
CT COASTAL JURISDICTION LINE	CJL	5.4	9.38
HIGH TIDE LINE	HTL	5.2	9.18
MEAN HIGH WATER LINE	MHW	3.35	7.33
MEAN LOW WATER LINE	MLW	-3.72	0.26
MEAN LOWER LOW WATER LINE	MLLW	-3.98	0

SCALE: SCALE IN FEET 0 20 40 SCALE 1"=40'

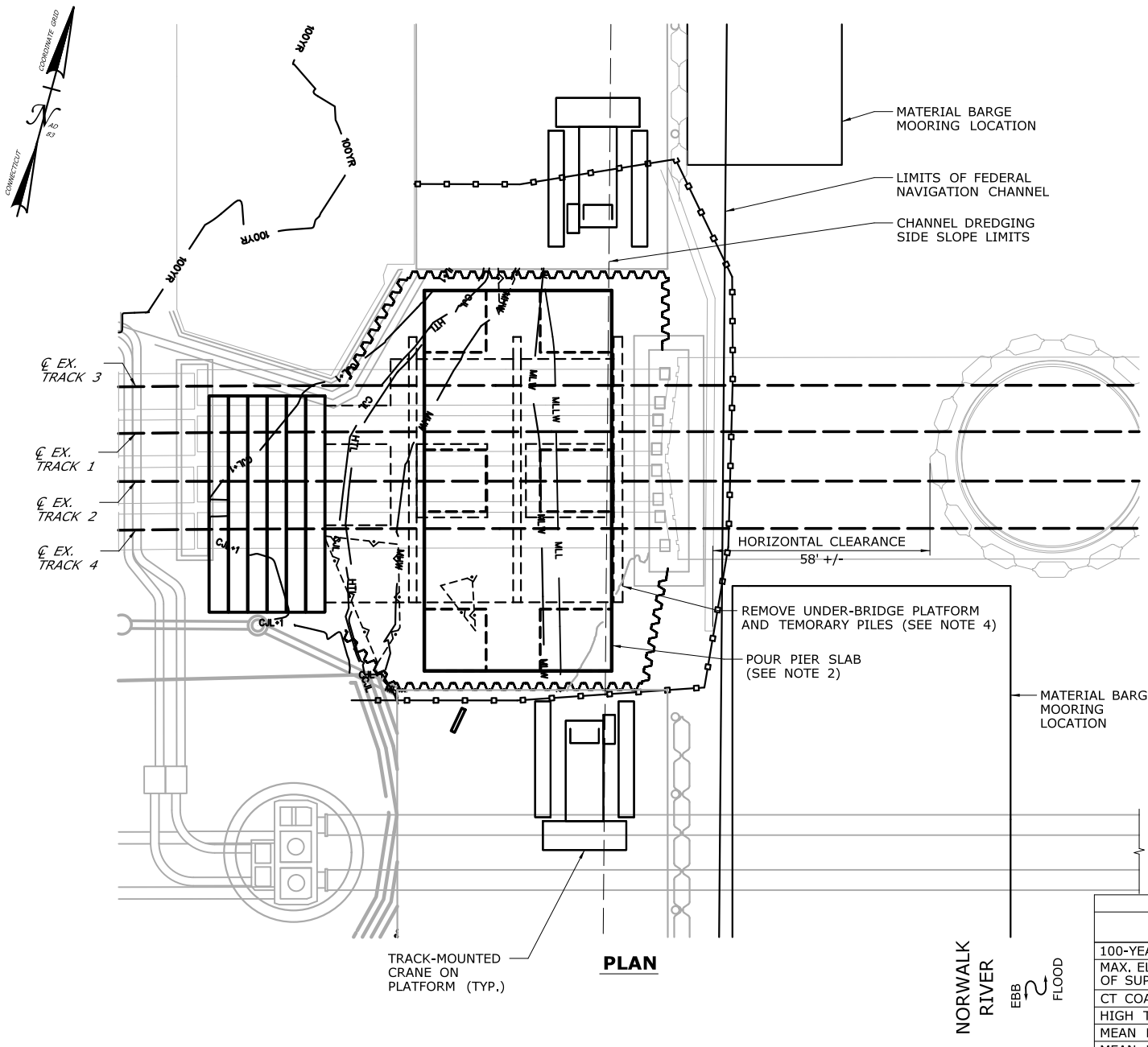
DRAWN: T. ADINOLFI
CHECKED: V. ROBBINS
APPROVED: C. BROWN

SIGNATURE BLOCK:

STATE OF CONNECTICUT
DEPARTMENT OF TRANSPORTATION

PROJECT TITLE:
WALK BRIDGE REPLACEMENT OVER THE NORWALK RIVER BRIDGE NO. 04288R/MP 41.5

TOWN: **NORWALK**
PROJECT NO.: **0301-0176**
DRAWING TITLE: **ACTIVITY 9 PIER 2 CONSTRUCTION (SHEET 4 OF 7)**
DATE: **REV 05-19-21**
DRAWING NO.: **CA9-4**



PLAN

CONSTRUCTION SEQUENCE

THE SHEETS IN THIS SUBSET DESCRIBE THE SEQUENCE OF ACTIVITIES REQUIRED TO BUILD PIER 2 WITH REFERENCES TO RELATED ACTIVITIES THROUGHOUT. FOR DETAILS OF RELATED ACTIVITIES, REFER TO THE SUBSETS NOTED IN PARENTHESES. WORK DEPICTED ON THIS SHEET IS IDENTIFIED WITH AN "X" IN THE TABLE.

	WORK DESCRIPTION
	CLOSE WEST CHANNEL TO NAVIGATION.
	SET TURBIDITY CURTAIN AND INSTALL MARINE ENCLOSURE.
	EXCAVATE WITHIN MARINE ENCLOSURE.
	INSTALL TEMPORARY PILES AND UNDER-BRIDGE WORK PLATFORM.
	INSTALL DRILLED SHAFTS OUTSIDE THE LIMITS OF THE EXISTING BRIDGE AND INSTALL MICROPILES BENEATH THE EXISTING BRIDGE.
	REMOVE TEMPORARY PILES OUTSIDE THE LIMITS OF THE EXISTING BRIDGE.
	CONSTRUCT CONCRETE CAPS AND INSTALL PRECAST CONCRETE TUBS AT FOUNDATIONS.
X	FORM, SET REINFORCING STEEL, AND POUR THE CONCRETE PIER SLAB.
X	REMOVE THE UNDER-BRIDGE WORK PLATFORM AND CUT-OFF THE REMAINING TEMPORARY PILES.
	FORM, SET REINFORCING STEEL AND ANCHOR BOLTS, AND POUR THE REMAINING PIER CONCRETE ABOVE THE SLAB.
	INSTALL SUBMARINE CABLES AND TERMINAL BOXES (SEE ACTIVITY 2).

NOTES:

1. VERTICAL DATUM IS NAVD 88. ELEVATIONS RELATIVE TO MLLW TIDAL DATUM ARE SHOWN IN PARENTHESES.
2. BOTTOM OF SLAB ELEVATION IS EL. 10.0 (13.98 MLLW).
3. A CONTAINMENT SHIELD WILL BE USED TO ELIMINATE SPILLAGE OF CONCRETE INTO THE WATER.
4. TEMPORARY PILES SHALL BE CUT OFF 2 FEET BELOW MUDLINE. SEE CUT-OFF PILE DETAIL ON DWG. NO. CA9-7.
5. SEE VESSEL BERTHING PLAN (DWG. GEN-9) FOR TYPICAL BARGE SIZES.

ELEVATION TABLE

DESCRIPTION	CONTOUR	ELEVATION (NAVD88)	ELEVATION (MLLW)
100-YEAR FLOODPLAIN	100 YR	10.0/12.0	13.98/15.98
MAX. ELEVATION OF LAND CAPABLE OF SUPPORTING TIDAL VEGETATION	CJL+1	6.4	10.38
CT COASTAL JURISDICTION LINE	CJL	5.4	9.38
HIGH TIDE LINE	HTL	5.2	9.18
MEAN HIGH WATER LINE	MHW	3.35	7.33
MEAN LOW WATER LINE	MLW	-3.72	0.26
MEAN LOWER LOW WATER LINE	MLLW	-3.98	0

SCALE:
SCALE IN FEET
0 20 40
SCALE 1"=40'

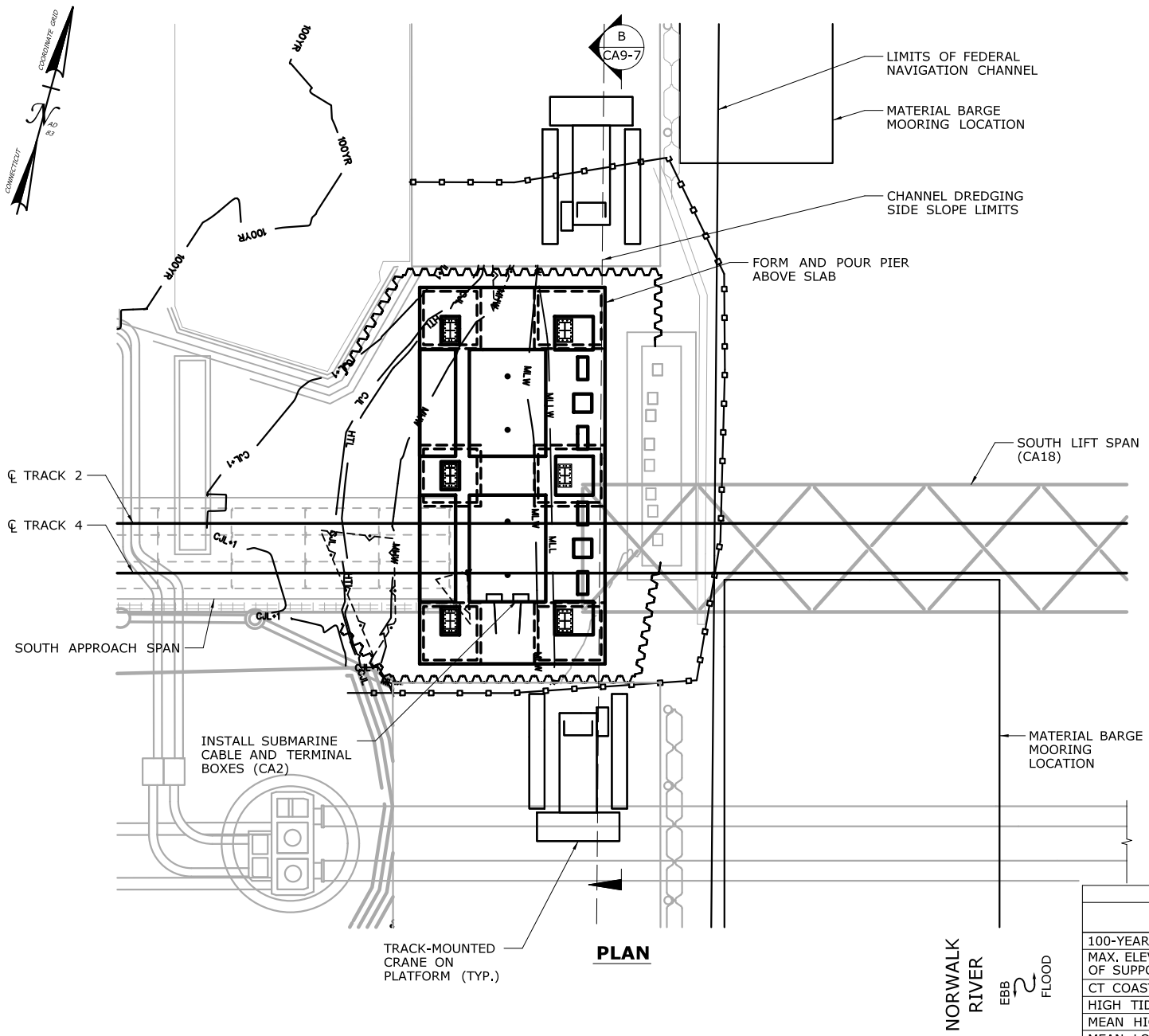
DRAWN: T. ADINOLFI
CHECKED: V. ROBBINS
APPROVED: C. BROWN

SIGNATURE BLOCK:

STATE OF CONNECTICUT
DEPARTMENT OF TRANSPORTATION

PROJECT TITLE:
WALK BRIDGE REPLACEMENT OVER THE NORWALK RIVER BRIDGE NO. 04288R/MP 41.5

TOWN: **NORWALK**
PROJECT NO.: **0301-0176**
DRAWING TITLE: **ACTIVITY 9 PIER 2 CONSTRUCTION (SHEET 5 OF 7)**
DATE: **REV 05-19-21**
DRAWING NO.: **CA9-5**



PLAN

CONSTRUCTION SEQUENCE

THE SHEETS IN THIS SUBSET DESCRIBE THE SEQUENCE OF ACTIVITIES REQUIRED TO BUILD PIER 2 WITH REFERENCES TO RELATED ACTIVITIES THROUGHOUT. FOR DETAILS OF RELATED ACTIVITIES, REFER TO THE SUBSETS NOTED IN PARENTHESES. WORK DEPICTED ON THIS SHEET IS IDENTIFIED WITH AN "X" IN THE TABLE.

	WORK DESCRIPTION
	CLOSE WEST CHANNEL TO NAVIGATION.
	SET TURBIDITY CURTAIN AND INSTALL MARINE ENCLOSURE.
	EXCAVATE WITHIN MARINE ENCLOSURE.
	INSTALL TEMPORARY PILES AND UNDER-BRIDGE WORK PLATFORM.
	INSTALL DRILLED SHAFTS OUTSIDE THE LIMITS OF THE EXISTING BRIDGE AND INSTALL MICROPILES BENEATH THE EXISTING BRIDGE.
	REMOVE TEMPORARY PILES OUTSIDE THE LIMITS OF THE EXISTING BRIDGE.
	CONSTRUCT CONCRETE CAPS AND INSTALL PRECAST CONCRETE TUBS AT FOUNDATIONS.
	FORM, SET REINFORCING STEEL, AND POUR THE CONCRETE PIER SLAB.
	REMOVE THE UNDER-BRIDGE WORK PLATFORM AND CUT-OFF THE REMAINING TEMPORARY PILES.
X	FORM, SET REINFORCING STEEL AND ANCHOR BOLTS, AND POUR THE REMAINING PIER CONCRETE ABOVE THE SLAB.
X	INSTALL SUBMARINE CABLES AND TERMINAL BOXES (SEE ACTIVITY 2).

NOTES:

1. VERTICAL DATUM IS NAVD 88. ELEVATIONS RELATIVE TO MLLW TIDAL DATUM ARE SHOWN IN PARENTHESES.
2. A CONTAINMENT SHIELD WILL BE USED TO ELIMINATE SPILLAGE OF CONCRETE INTO THE WATER.
3. FINAL CONCRETE POUR WILL TAKE PLACE FOLLOWING INSTALLATION OF THE SOUTH LIFT SPAN DURING A SERVICE OUTAGE ON TRACKS 1 AND 3.
4. THE MARINE ENCLOSURE WILL BE MODIFIED AS NEEDED TO INSTALL BRIDGE POWER AND CONTROL DUCTS.
5. SEE VESSEL BERTHING PLAN (DWG. GEN-9) FOR TYPICAL BARGE SIZES.
6. THE MARINE ENCLOSURE WILL BE USED DURING EXISTING PIER REMOVAL AS PART OF ACTIVITY 14.

ELEVATION TABLE

DESCRIPTION	CONTOUR	ELEVATION (NAVD88)	ELEVATION (MLLW)
100-YEAR FLOODPLAIN	100 YR	10.0/12.0	13.98/15.98
MAX. ELEVATION OF LAND CAPABLE OF SUPPORTING TIDAL VEGETATION	CJL+1	6.4	10.38
CT COASTAL JURISDICTION LINE	CJL	5.4	9.38
HIGH TIDE LINE	HTL	5.2	9.18
MEAN HIGH WATER LINE	MHW	3.35	7.33
MEAN LOW WATER LINE	MLW	-3.72	0.26
MEAN LOWER LOW WATER LINE	MLLW	-3.98	0

SCALE: SCALE IN FEET 0 20 40 SCALE 1"=40'

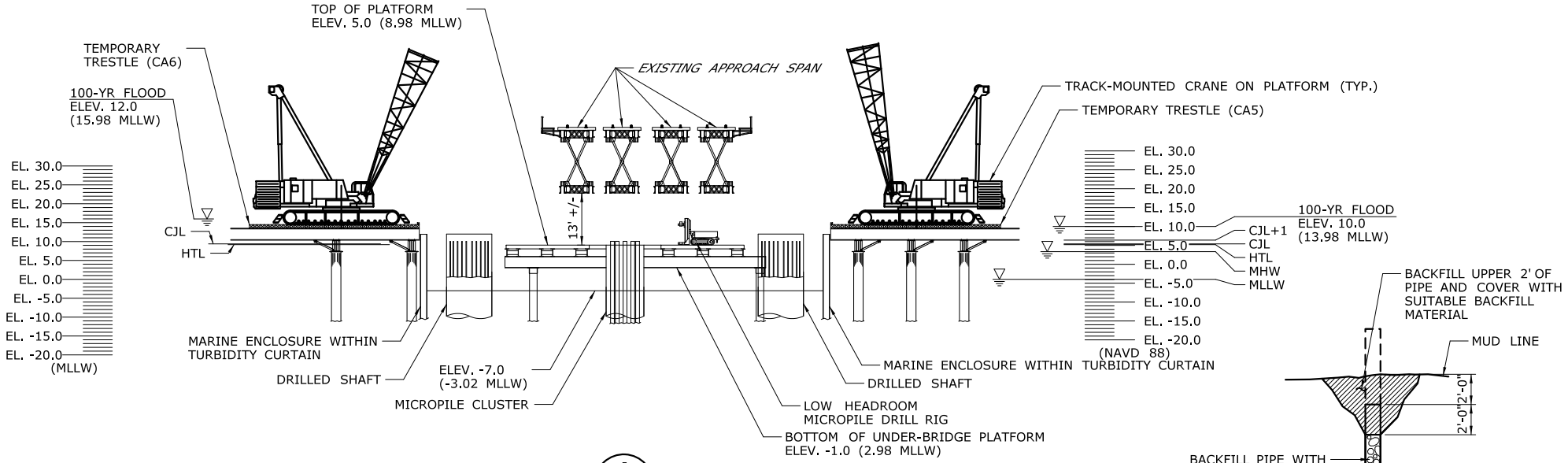
DRAWN: T. ADINOLFI
CHECKED: V. ROBBINS
APPROVED: C. BROWN

SIGNATURE BLOCK:

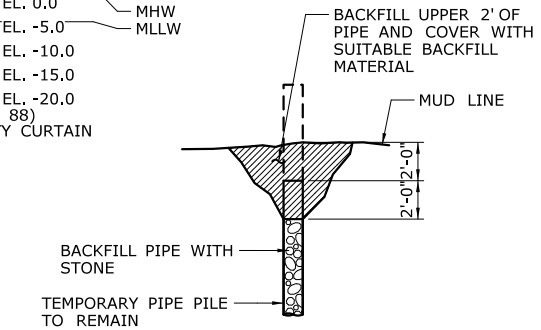
STATE OF CONNECTICUT
DEPARTMENT OF TRANSPORTATION

PROJECT TITLE:
WALK BRIDGE REPLACEMENT OVER THE NORWALK RIVER BRIDGE NO. 04288R/MP 41.5

TOWN: **NORWALK**
PROJECT NO.: **0301-0176**
DRAWING TITLE: **ACTIVITY 9 PIER 2 CONSTRUCTION (SHEET 6 OF 7)**
DATE: **REV 05-19-21**
DRAWING NO.: **CA9-6**

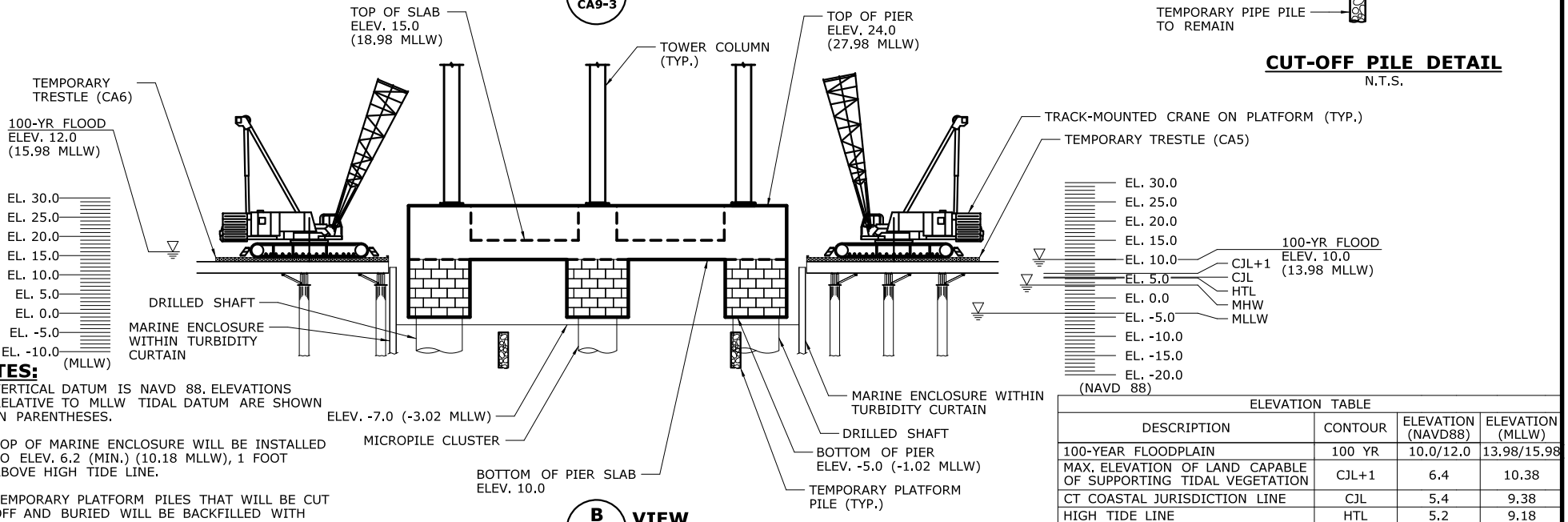


A / **CA9-3** **VIEW**



CUT-OFF PILE DETAIL

N.T.S.



B / **CA9-6** **VIEW**

NOTES:

1. VERTICAL DATUM IS NAVD 88. ELEVATIONS RELATIVE TO MLLW TIDAL DATUM ARE SHOWN IN PARENTHESES.
2. TOP OF MARINE ENCLOSURE WILL BE INSTALLED TO ELEV. 6.2 (MIN.) (10.18 MLLW), 1 FOOT ABOVE HIGH TIDE LINE.
3. TEMPORARY PLATFORM PILES THAT WILL BE CUT OFF AND BURIED WILL BE BACKFILLED WITH STONE AFTER INSTALLATION, PRIOR TO BUILDING THE PIER SLAB.
4. FOR TRESTLE ELEVATIONS, SEE CA5 AND CA6.

ELEVATION TABLE

DESCRIPTION	CONTOUR	ELEVATION (NAVD88)	ELEVATION (MLLW)
100-YEAR FLOODPLAIN	100 YR	10.0/12.0	13.98/15.98
MAX. ELEVATION OF LAND CAPABLE OF SUPPORTING TIDAL VEGETATION	CJL+1	6.4	10.38
CT COASTAL JURISDICTION LINE	CJL	5.4	9.38
HIGH TIDE LINE	HTL	5.2	9.18
MEAN HIGH WATER LINE	MHW	3.35	7.33
MEAN LOW WATER LINE	MLW	-3.72	0.26
MEAN LOWER LOW WATER LINE	MLLW	-3.98	0

SCALE: SCALE IN FEET 0 20 40 SCALE 1"=40' (EXCEPT AS NOTED)

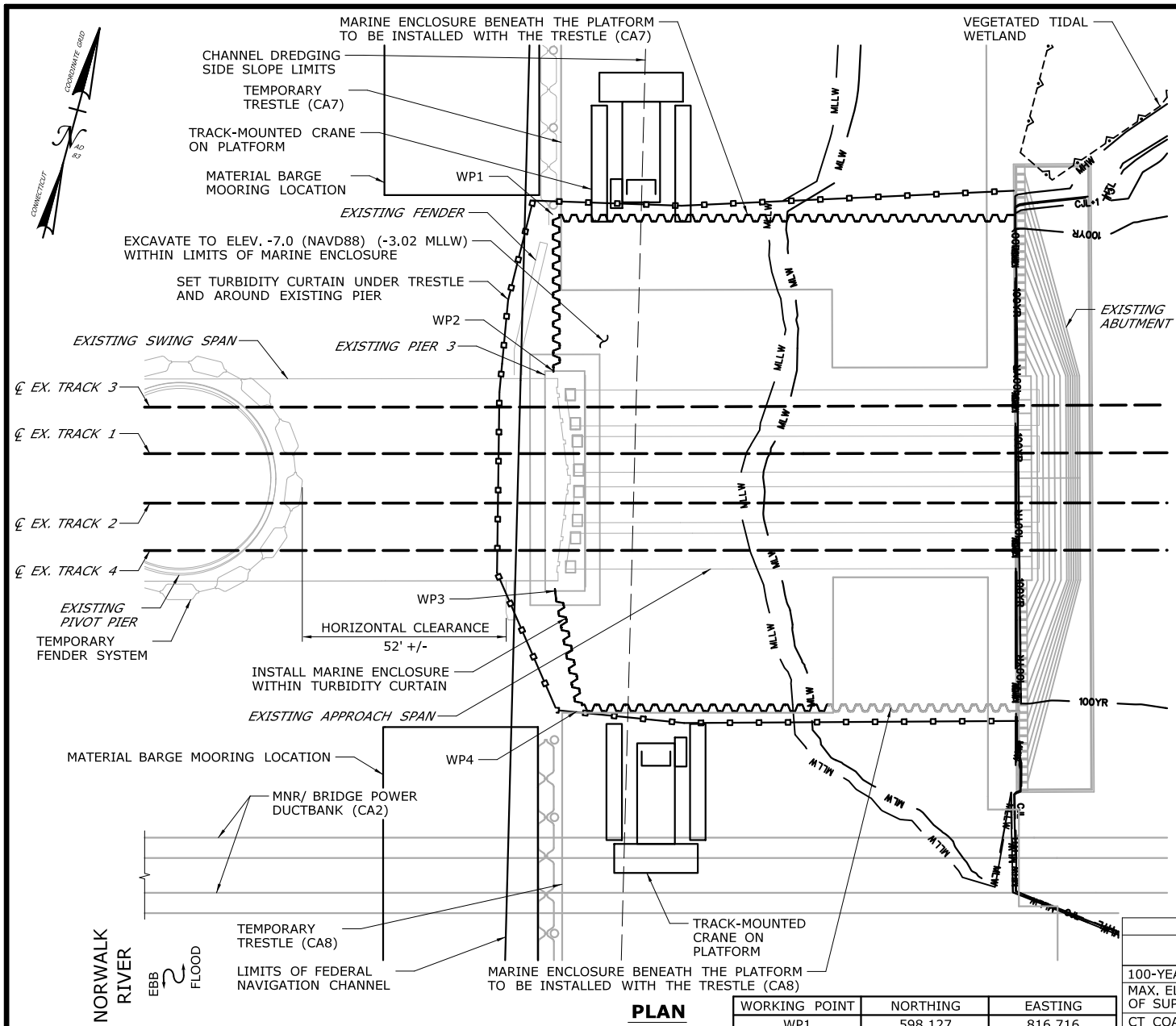
DRAWN: T. ADINOLFI
CHECKED: V. ROBBINS
APPROVED: C. BROWN

SIGNATURE BLOCK:

STATE OF CONNECTICUT
DEPARTMENT OF TRANSPORTATION

PROJECT TITLE:
WALK BRIDGE REPLACEMENT OVER THE NORWALK RIVER BRIDGE NO. 04288R/MP 41.5

TOWN: **NORWALK**
PROJECT NO.: **0301-0176**
DRAWING TITLE: **ACTIVITY 9 PIER 2 CONSTRUCTION (SHEET 7 OF 7)**
DATE: **REV 7-31-20**
DRAWING NO.: **CA9-7**



PLAN

WORKING POINT	NORTHING	EASTING
WP1	598,127	816,716
WP2	598,088	816,726
WP3	598,033	816,742
WP4	598,005	816,755

CONSTRUCTION SEQUENCE

THE SHEETS IN THIS SUBSET DESCRIBE THE SEQUENCE OF ACTIVITIES REQUIRED TO BUILD PIER 3 WITH REFERENCES TO RELATED ACTIVITIES THROUGHOUT. FOR DETAILS OF RELATED ACTIVITIES, REFER TO THE SUBSETS NOTED IN PARENTHESES. WORK DEPICTED ON THIS SHEET IS IDENTIFIED WITH AN "X" IN THE TABLE.

	WORK DESCRIPTION
X	CLOSE EAST CHANNEL TO NAVIGATION.
X	SET TURBIDITY CURTAIN AND INSTALL MARINE ENCLOSURE.
X	EXCAVATE WITHIN MARINE ENCLOSURE.
	INSTALL TEMPORARY PILES AND UNDER-BRIDGE WORK PLATFORM.
	INSTALL DRILLED SHAFTS OUTSIDE THE LIMITS OF THE EXISTING BRIDGE AND INSTALL MICROPILES BENEATH THE EXISTING BRIDGE.
	REMOVE TEMPORARY PILES OUTSIDE THE LIMITS OF THE EXISTING BRIDGE.
	CONSTRUCT CONCRETE CAPS AND INSTALL PRECAST CONCRETE TUBS AT FOUNDATIONS.
	FORM, SET REINFORCING STEEL, AND POUR THE CONCRETE PIER SLAB.
	REMOVE THE UNDER-BRIDGE WORK PLATFORM AND CUT-OFF THE REMAINING TEMPORARY PILES.
	FORM, SET REINFORCING STEEL AND ANCHOR BOLTS, AND POUR THE REMAINING PIER CONCRETE ABOVE THE SLAB.
	INSTALL SUBMARINE CABLES AND TERMINAL BOXES (SEE ACTIVITY 2).
	RESTORE WETLAND AREA TO PRE-CONSTRUCTION CONDITIONS (SEE ALSO ACTIVITY 16).

NOTES:

1. VERTICAL DATUM IS NAVD 88. ELEVATIONS RELATIVE TO MLLW TIDAL DATUM ARE SHOWN IN PARENTHESES.
2. TOP OF MARINE ENCLOSURE WILL BE INSTALLED TO ELEV. 6.2 (MIN.) (10.18 MLLW), 1 FOOT ABOVE HIGH TIDE LINE.
3. EXCAVATED MATERIAL AND DEWATERED WASTEWATERS SHALL BE MANAGED IN ACCORDANCE WITH THE ENVIRONMENTAL SPECIAL PROVISIONS AND CTDEEP REQUIREMENTS.
4. SEE VESSEL BERTHING PLAN (DWG. GEN-9) FOR TYPICAL BARGE SIZES.

ELEVATION TABLE			
DESCRIPTION	CONTOUR	ELEVATION (NAVD88)	ELEVATION (MLLW)
100-YEAR FLOODPLAIN	100 YR	10.0/12.0	13.98/15.98
MAX. ELEVATION OF LAND CAPABLE OF SUPPORTING TIDAL VEGETATION	CJL+1	6.4	10.38
CT COASTAL JURISDICTION LINE	CJL	5.4	9.38
HIGH TIDE LINE	HTL	5.2	9.18
MEAN HIGH WATER LINE	MHW	3.35	7.33
MEAN LOW WATER LINE	MLW	-3.72	0.26
MEAN LOWER LOW WATER LINE	MLLW	-3.98	0

SCALE:
SCALE IN FEET
0 20 40
SCALE 1"=40'

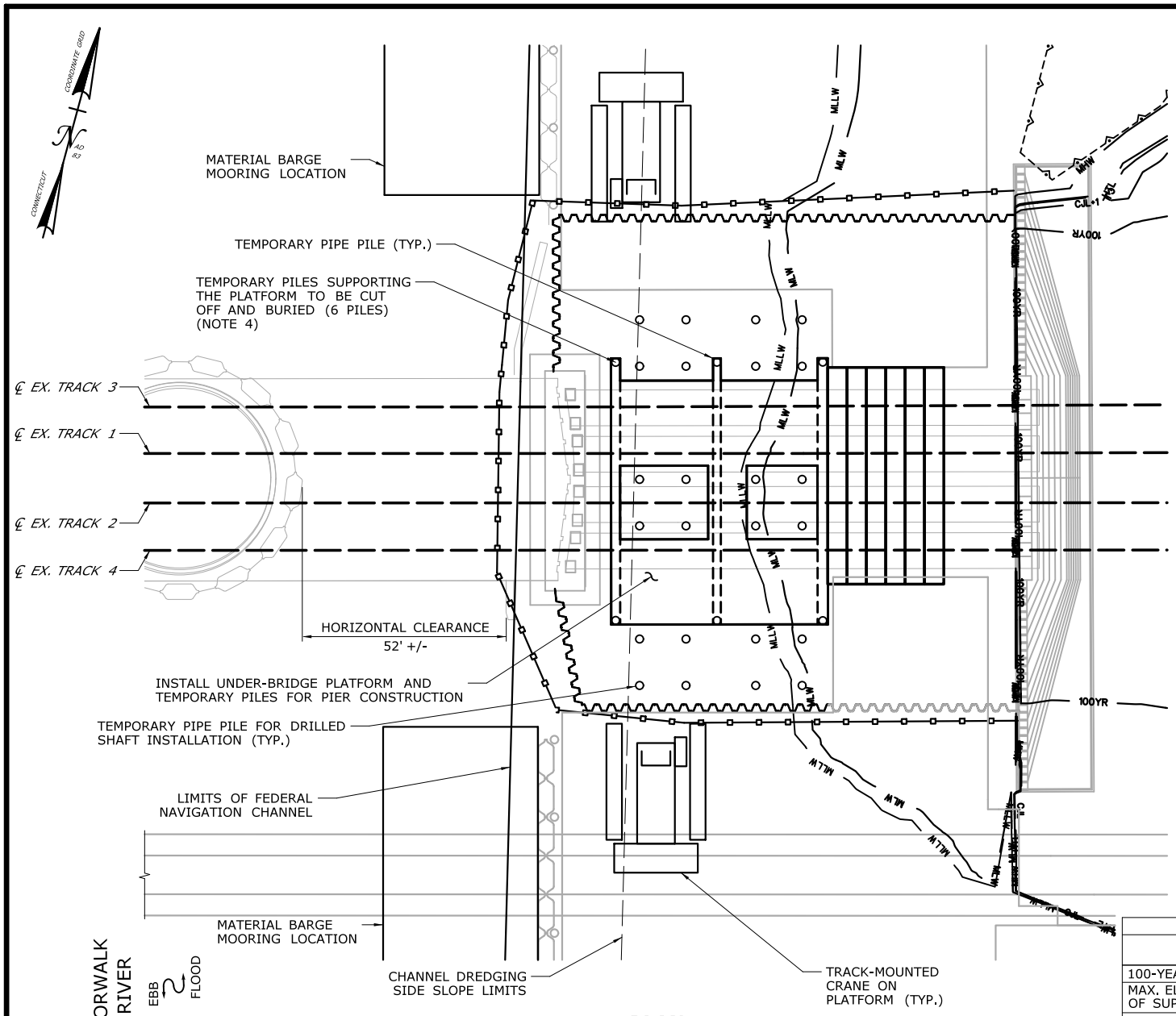
DRAWN: T. ADINOLFI
CHECKED: V. ROBBINS
APPROVED: C. BROWN

SIGNATURE BLOCK:

STATE OF CONNECTICUT
DEPARTMENT OF TRANSPORTATION

PROJECT TITLE:
WALK BRIDGE REPLACEMENT OVER THE NORWALK RIVER BRIDGE NO. 04288R/MP 41.5

TOWN: **NORWALK**
PROJECT NO.: **0301-0176**
DRAWING TITLE: **ACTIVITY 10 PIER 3 CONSTRUCTION (SHEET 1 OF 7)**
DATE: **REV 02-23-21**
DRAWING NO.: **CA10-1**



PLAN

CONSTRUCTION SEQUENCE

THE SHEETS IN THIS SUBSET DESCRIBE THE SEQUENCE OF ACTIVITIES REQUIRED TO BUILD PIER 3 WITH REFERENCES TO RELATED ACTIVITIES THROUGHOUT. FOR DETAILS OF RELATED ACTIVITIES, REFER TO THE SUBSETS NOTED IN PARENTHESES. WORK DEPICTED ON THIS SHEET IS IDENTIFIED WITH AN "X" IN THE TABLE.

	WORK DESCRIPTION
	CLOSE EAST CHANNEL TO NAVIGATION.
	SET TURBIDITY CURTAIN AND INSTALL MARINE ENCLOSURE.
	EXCAVATE WITHIN MARINE ENCLOSURE.
X	INSTALL TEMPORARY PILES AND UNDER-BRIDGE WORK PLATFORM.
	INSTALL DRILLED SHAFTS OUTSIDE THE LIMITS OF THE EXISTING BRIDGE AND INSTALL MICROPILES BENEATH THE EXISTING BRIDGE.
	REMOVE TEMPORARY PILES OUTSIDE THE LIMITS OF THE EXISTING BRIDGE.
	CONSTRUCT CONCRETE CAPS AND INSTALL PRECAST CONCRETE TUBS AT FOUNDATIONS.
	FORM, SET REINFORCING STEEL, AND POUR THE CONCRETE PIER SLAB.
	REMOVE THE UNDER-BRIDGE WORK PLATFORM AND CUT-OFF THE REMAINING TEMPORARY PILES.
	FORM, SET REINFORCING STEEL AND ANCHOR BOLTS, AND POUR THE REMAINING PIER CONCRETE ABOVE THE SLAB.
	INSTALL SUBMARINE CABLES AND TERMINAL BOXES (SEE ACTIVITY 2).
	RESTORE WETLAND AREA TO PRE-CONSTRUCTION CONDITIONS (SEE ALSO ACTIVITY 16).

NOTES:

1. VERTICAL DATUM IS NAVD 88. ELEVATIONS RELATIVE TO MLLW TIDAL DATUM ARE SHOWN IN PARENTHESES.
2. TEMPORARY PILES ARE ANTICIPATED TO BE 36" (MAX.) DIAMETER PIPE PILES.
3. ALL TEMPORARY PILES TO BE REMOVED, EXCEPT AS NOTED.
4. TEMPORARY PILES TO BE BACKFILLED WITH STONE FOLLOWING INSTALLATION. SEE CUT-OFF PILE DETAIL ON DWG. CA10-7.
5. SEE VESSEL BERTHING PLAN (DWG. GEN-9) FOR TYPICAL BARGE SIZES.

ELEVATION TABLE

DESCRIPTION	CONTOUR	ELEVATION (NAVD88)	ELEVATION (MLLW)
100-YEAR FLOODPLAIN	100 YR	10.0/12.0	13.98/15.98
MAX. ELEVATION OF LAND CAPABLE OF SUPPORTING TIDAL VEGETATION	CJL+1	6.4	10.38
CT COASTAL JURISDICTION LINE	CJL	5.4	9.38
HIGH TIDE LINE	HTL	5.2	9.18
MEAN HIGH WATER LINE	MHW	3.35	7.33
MEAN LOW WATER LINE	MLW	-3.72	0.26
MEAN LOWER LOW WATER LINE	MLLW	-3.98	0

SCALE:
SCALE IN FEET
0 20 40
SCALE 1"=40'

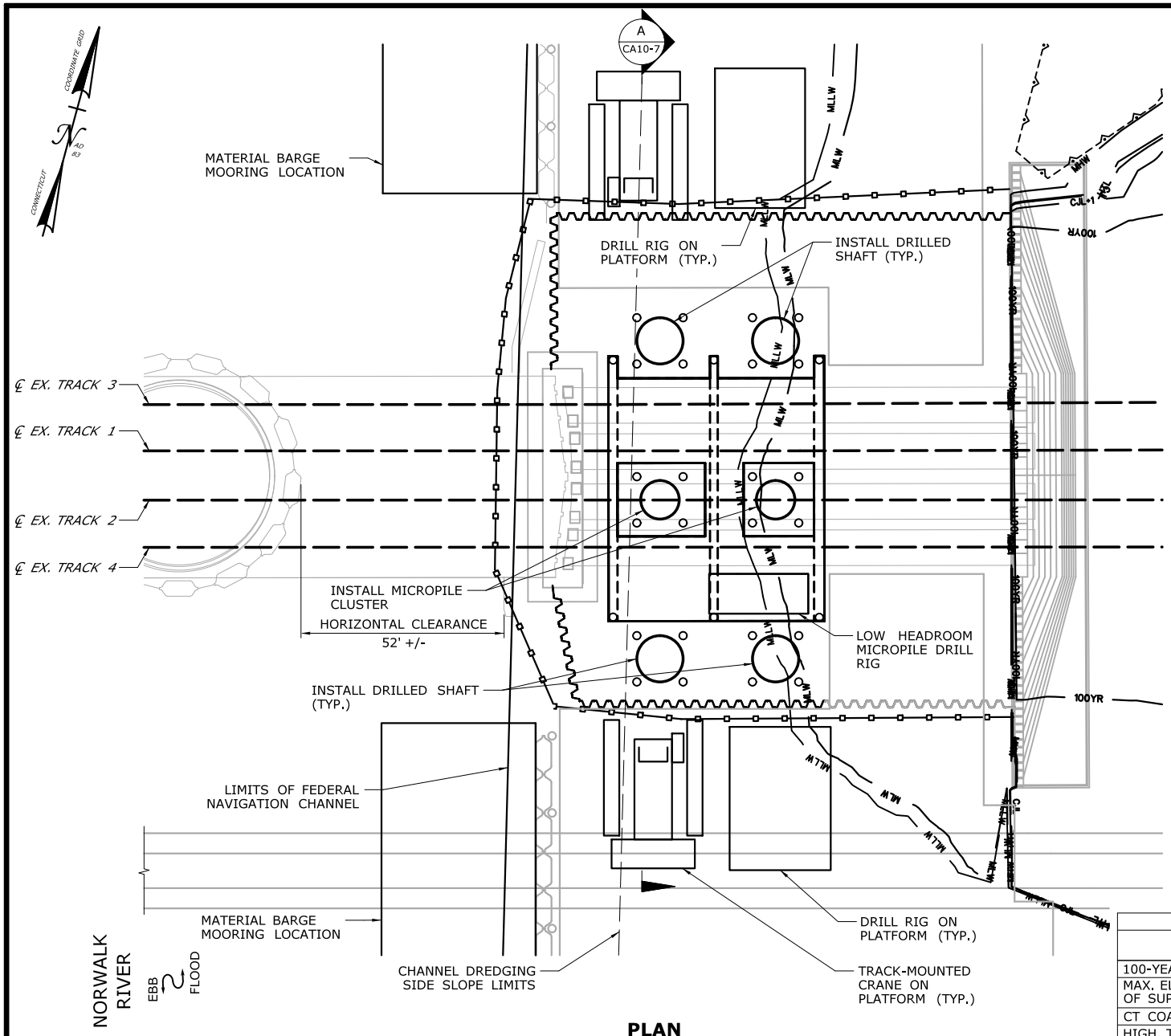
DRAWN: T. ADINOLFI
CHECKED: V. ROBBINS
APPROVED: C. BROWN

SIGNATURE BLOCK:

STATE OF CONNECTICUT
DEPARTMENT OF TRANSPORTATION

PROJECT TITLE:
WALK BRIDGE REPLACEMENT OVER THE NORWALK RIVER BRIDGE NO. 04288R/MP 41.5

TOWN: **NORWALK**
PROJECT NO.: **0301-0176**
DRAWING TITLE: **ACTIVITY 10 PIER 3 CONSTRUCTION (SHEET 2 OF 7)**
DATE: **REV 7-31-20**
DRAWING NO.: **CA10-2**



PLAN

CONSTRUCTION SEQUENCE

THE SHEETS IN THIS SUBSET DESCRIBE THE SEQUENCE OF ACTIVITIES REQUIRED TO BUILD PIER 3 WITH REFERENCES TO RELATED ACTIVITIES THROUGHOUT. FOR DETAILS OF RELATED ACTIVITIES, REFER TO THE SUBSETS NOTED IN PARENTHESES. WORK DEPICTED ON THIS SHEET IS IDENTIFIED WITH AN "X" IN THE TABLE.

	WORK DESCRIPTION
	CLOSE EAST CHANNEL TO NAVIGATION.
	SET TURBIDITY CURTAIN AND INSTALL MARINE ENCLOSURE.
	EXCAVATE WITHIN MARINE ENCLOSURE.
	INSTALL TEMPORARY PILES AND UNDER-BRIDGE WORK PLATFORM.
X	INSTALL DRILLED SHAFTS OUTSIDE THE LIMITS OF THE EXISTING BRIDGE AND INSTALL MICROPILES BENEATH THE EXISTING BRIDGE.
	REMOVE TEMPORARY PILES OUTSIDE THE LIMITS OF THE EXISTING BRIDGE.
	CONSTRUCT CONCRETE CAPS AND INSTALL PRECAST CONCRETE TUBS AT FOUNDATIONS.
	FORM, SET REINFORCING STEEL, AND POUR THE CONCRETE PIER SLAB.
	REMOVE THE UNDER-BRIDGE WORK PLATFORM AND CUT-OFF THE REMAINING TEMPORARY PILES.
	FORM, SET REINFORCING STEEL AND ANCHOR BOLTS, AND POUR THE REMAINING PIER CONCRETE ABOVE THE SLAB.
	INSTALL SUBMARINE CABLES AND TERMINAL BOXES (SEE ACTIVITY 2).
	RESTORE WETLAND AREA TO PRE-CONSTRUCTION CONDITIONS (SEE ALSO ACTIVITY 16).

NOTES:

1. VERTICAL IS NAVD 88. ELEVATIONS RELATIVE TO MLLW TIDAL DATUM ARE SHOWN IN PARENTHESES.
2. EXCAVATED MATERIAL AND DEWATERED WASTEWATERS SHALL BE MANAGED IN ACCORDANCE WITH THE ENVIRONMENTAL SPECIAL PROVISIONS AND CTDEEP REQUIREMENTS.
3. SEE VESSEL BERTHING PLAN (DWG. GEN-9) FOR TYPICAL BARGE SIZES.

ELEVATION TABLE

DESCRIPTION	CONTOUR	ELEVATION (NAVD88)	ELEVATION (MLLW)
100-YEAR FLOODPLAIN	100 YR	10.0/12.0	13.98/15.98
MAX. ELEVATION OF LAND CAPABLE OF SUPPORTING TIDAL VEGETATION	CJL+1	6.4	10.38
CT COASTAL JURISDICTION LINE	CJL	5.4	9.38
HIGH TIDE LINE	HTL	5.2	9.18
MEAN HIGH WATER LINE	MHW	3.35	7.33
MEAN LOW WATER LINE	MLW	-3.72	0.26
MEAN LOWER LOW WATER LINE	MLLW	-3.98	0

SCALE:
SCALE IN FEET
0 20 40
SCALE 1"=40'

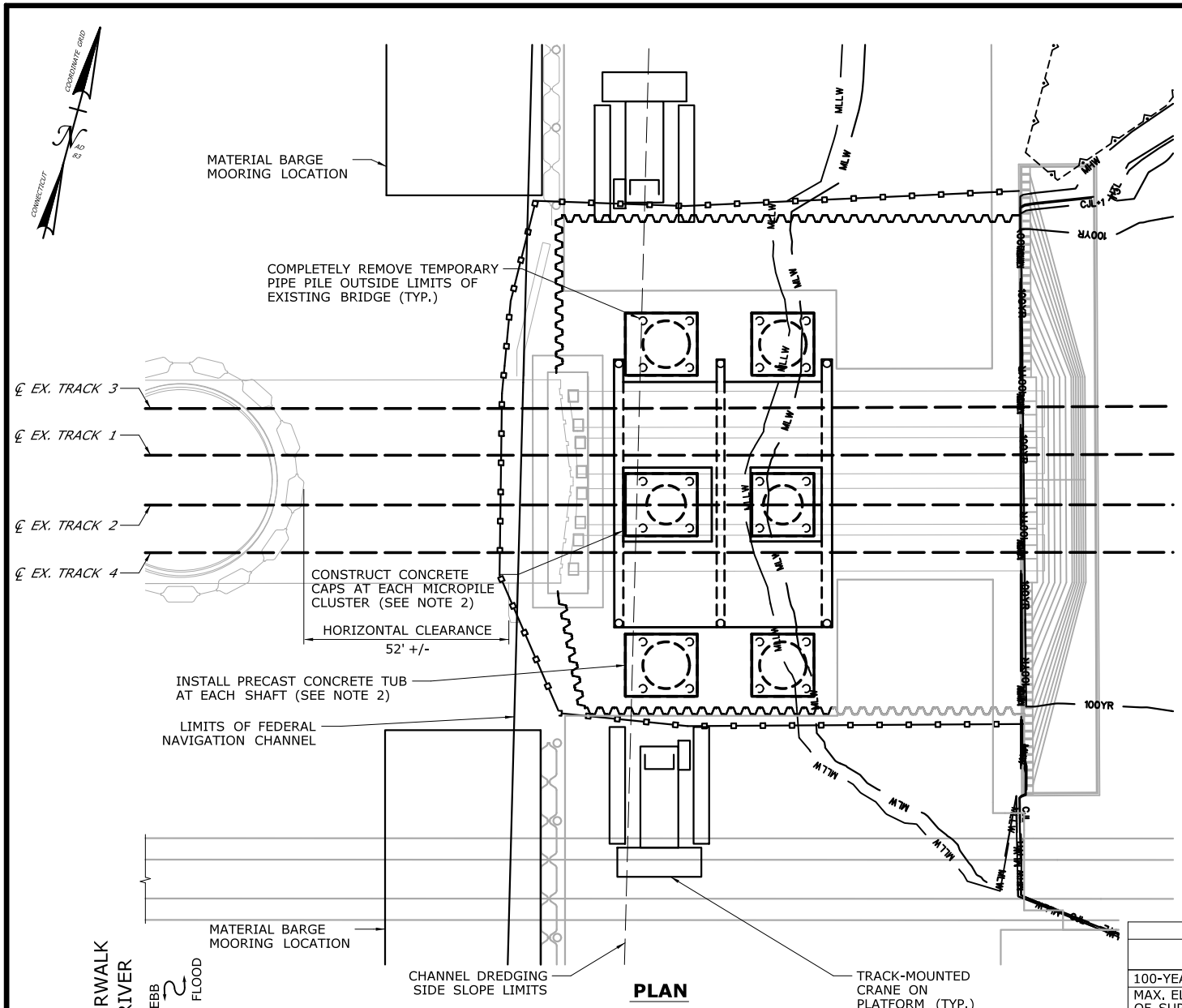
DRAWN: T. ADINOLFI
CHECKED: V. ROBBINS
APPROVED: C. BROWN

SIGNATURE BLOCK:

STATE OF CONNECTICUT
DEPARTMENT OF TRANSPORTATION

PROJECT TITLE:
WALK BRIDGE REPLACEMENT OVER THE NORWALK RIVER BRIDGE NO. 04288R/MP 41.5

TOWN: **NORWALK**
PROJECT NO.: **0301-0176**
DRAWING TITLE: **ACTIVITY 10 PIER 3 CONSTRUCTION (SHEET 3 OF 7)**
DATE: **REV 02-23-21**
DRAWING NO.: **CA10-3**



PLAN

CONSTRUCTION SEQUENCE

THE SHEETS IN THIS SUBSET DESCRIBE THE SEQUENCE OF ACTIVITIES REQUIRED TO BUILD PIER 3 WITH REFERENCES TO RELATED ACTIVITIES THROUGHOUT. FOR DETAILS OF RELATED ACTIVITIES, REFER TO THE SUBSETS NOTED IN PARENTHESES. WORK DEPICTED ON THIS SHEET IS IDENTIFIED WITH AN "X" IN THE TABLE.

	WORK DESCRIPTION
	CLOSE EAST CHANNEL TO NAVIGATION.
	SET TURBIDITY CURTAIN AND INSTALL MARINE ENCLOSURE.
	EXCAVATE WITHIN MARINE ENCLOSURE.
	INSTALL TEMPORARY PILES AND UNDER-BRIDGE WORK PLATFORM.
	INSTALL DRILLED SHAFTS OUTSIDE THE LIMITS OF THE EXISTING BRIDGE AND INSTALL MICROPILES BENEATH THE EXISTING BRIDGE.
X	REMOVE TEMPORARY PILES OUTSIDE THE LIMITS OF THE EXISTING BRIDGE.
X	CONSTRUCT CONCRETE CAPS AND INSTALL PRECAST CONCRETE TUBS AT FOUNDATIONS.
	FORM, SET REINFORCING STEEL, AND POUR THE CONCRETE PIER SLAB.
	REMOVE THE UNDER-BRIDGE WORK PLATFORM AND CUT-OFF THE REMAINING TEMPORARY PILES.
	FORM, SET REINFORCING STEEL AND ANCHOR BOLTS, AND POUR THE REMAINING PIER CONCRETE ABOVE THE SLAB.
	INSTALL SUBMARINE CABLES AND TERMINAL BOXES (SEE ACTIVITY 2).
	RESTORE WETLAND AREA TO PRE-CONSTRUCTION CONDITIONS (SEE ALSO ACTIVITY 16).

NOTES:

1. VERTICAL DATUM IS NAVD 88. ELEVATIONS RELATIVE TO MLLW TIDAL DATUM ARE SHOWN IN PARENTHESES.
2. BOTTOM OF CAP ELEVATION IS EL. -5.0 (NAVD88) (-1.02 MLLW).
3. A CONTAINMENT SHIELD WILL BE USED TO ELIMINATE SPILLAGE OF CONCRETE INTO THE WATER.
4. TEMPORARY PILES ARE ANTICIPATED TO BE 36" (MAX.) DIAMETER PIPE PILES.
5. SEE VESSEL BERTHING PLAN FOR TYPICAL BARGE SIZES.

ELEVATION TABLE

DESCRIPTION	CONTOUR	ELEVATION (NAVD88)	ELEVATION (MLLW)
100-YEAR FLOODPLAIN	100 YR	10.0/12.0	13.98/15.98
MAX. ELEVATION OF LAND CAPABLE OF SUPPORTING TIDAL VEGETATION	CJL+1	6.4	10.38
CT COASTAL JURISDICTION LINE	CJL	5.4	9.38
HIGH TIDE LINE	HTL	5.2	9.18
MEAN HIGH WATER LINE	MHW	3.35	7.33
MEAN LOW WATER LINE	MLW	-3.72	0.26
MEAN LOWER LOW WATER LINE	MLLW	-3.98	0

SCALE: SCALE IN FEET 0 20 40 SCALE 1"=40'

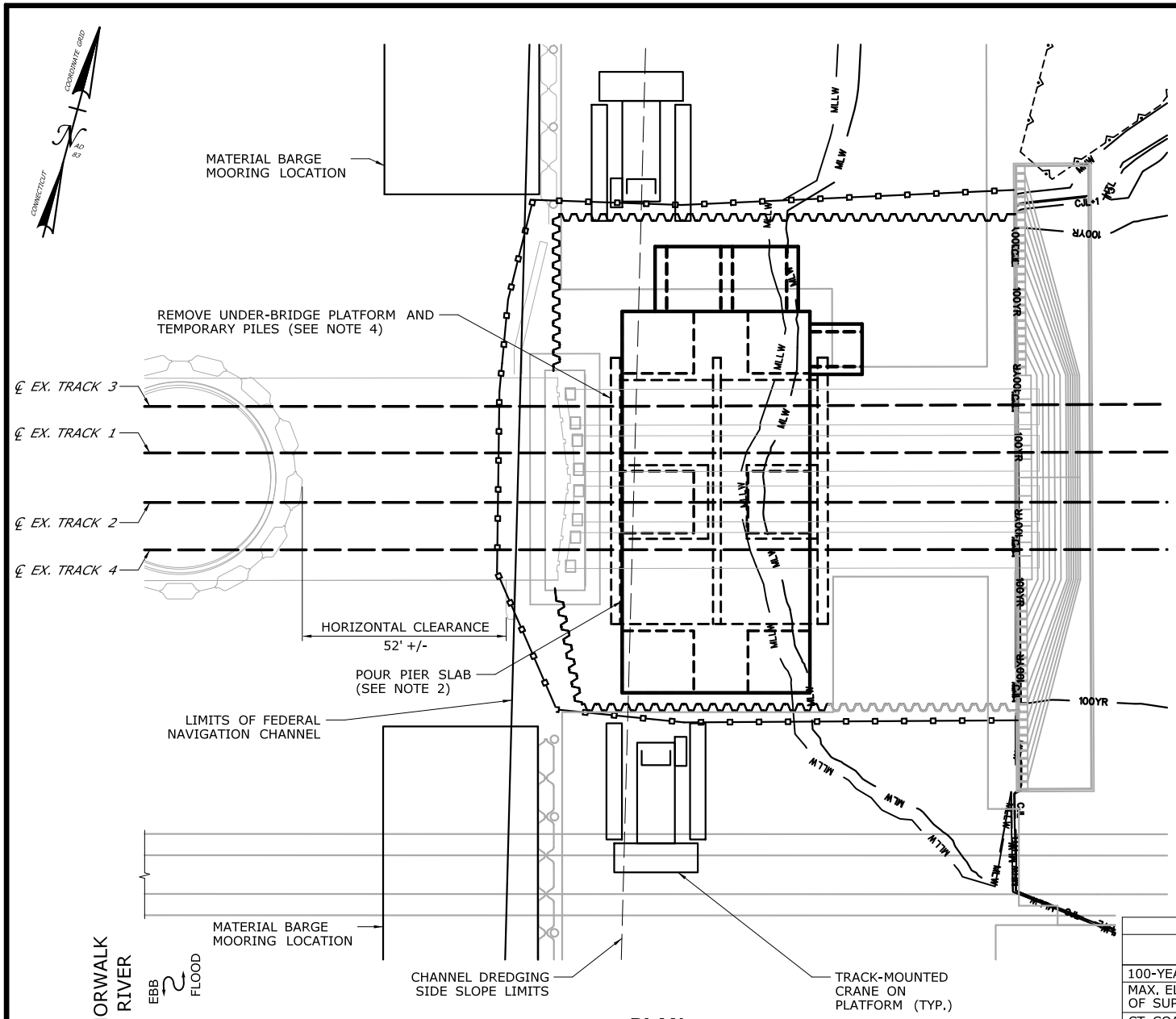
DRAWN: T. ADINOLFI
CHECKED: V. ROBBINS
APPROVED: C. BROWN

SIGNATURE BLOCK:

STATE OF CONNECTICUT
DEPARTMENT OF TRANSPORTATION

PROJECT TITLE:
WALK BRIDGE REPLACEMENT OVER THE NORWALK RIVER BRIDGE NO. 04288R/MP 41.5

TOWN: **NORWALK**
PROJECT NO.: **0301-0176**
DRAWING TITLE: **ACTIVITY 10 PIER 3 CONSTRUCTION (SHEET 4 OF 7)**
DATE: **REV 7-31-20**
DRAWING NO.: **CA10-4**



PLAN

CONSTRUCTION SEQUENCE

THE SHEETS IN THIS SUBSET DESCRIBE THE SEQUENCE OF ACTIVITIES REQUIRED TO BUILD PIER 3 WITH REFERENCES TO RELATED ACTIVITIES THROUGHOUT. FOR DETAILS OF RELATED ACTIVITIES, REFER TO THE SUBSETS NOTED IN PARENTHESES. WORK DEPICTED ON THIS SHEET IS IDENTIFIED WITH AN "X" IN THE TABLE.

	WORK DESCRIPTION
	CLOSE EAST CHANNEL TO NAVIGATION.
	SET TURBIDITY CURTAIN AND INSTALL MARINE ENCLOSURE.
	EXCAVATE WITHIN MARINE ENCLOSURE.
	INSTALL TEMPORARY PILES AND UNDER-BRIDGE WORK PLATFORM.
	INSTALL DRILLED SHAFTS OUTSIDE THE LIMITS OF THE EXISTING BRIDGE AND INSTALL MICROPILES BENEATH THE EXISTING BRIDGE.
	REMOVE TEMPORARY PILES OUTSIDE THE LIMITS OF THE EXISTING BRIDGE.
	CONSTRUCT CONCRETE CAPS AND INSTALL PRECAST CONCRETE TUBS AT FOUNDATIONS.
X	FORM, SET REINFORCING STEEL, AND POUR THE CONCRETE PIER SLAB.
X	REMOVE THE UNDER-BRIDGE WORK PLATFORM AND CUT-OFF THE REMAINING TEMPORARY PILES.
	FORM, SET REINFORCING STEEL AND ANCHOR BOLTS, AND POUR THE REMAINING PIER CONCRETE ABOVE THE SLAB.
	INSTALL SUBMARINE CABLES AND TERMINAL BOXES (SEE ACTIVITY 2).
	RESTORE WETLAND AREA TO PRE-CONSTRUCTION CONDITIONS (SEE ALSO ACTIVITY 16).

NOTES:

1. VERTICAL DATUM IS NAVD 88. ELEVATIONS RELATIVE TO MLLW TIDAL DATUM ARE SHOWN IN PARENTHESES.
2. BOTTOM OF SLAB ELEVATION IS EL. 10.0 (13.98 MLLW).
3. A CONTAINMENT SHIELD WILL BE USED TO ELIMINATE SPILLAGE OF CONCRETE INTO THE WATER.
4. TEMPORARY PILES SHALL BE CUT OFF 2 FEET BELOW MUDLINE. SEE CUT-OFF PILE DETAIL ON DWG. NO. CA10-7.
5. SEE VESSEL BERTHING PLAN FOR TYPICAL BARGE SIZES.

ELEVATION TABLE

DESCRIPTION	CONTOUR	ELEVATION (NAVD88)	ELEVATION (MLLW)
100-YEAR FLOODPLAIN	100 YR	10.0/12.0	13.98/15.98
MAX. ELEVATION OF LAND CAPABLE OF SUPPORTING TIDAL VEGETATION	CJL+1	6.4	10.38
CT COASTAL JURISDICTION LINE	CJL	5.4	9.38
HIGH TIDE LINE	HTL	5.2	9.18
MEAN HIGH WATER LINE	MHW	3.35	7.33
MEAN LOW WATER LINE	MLW	-3.72	0.26
MEAN LOWER LOW WATER LINE	MLLW	-3.98	0

SCALE:
SCALE IN FEET
0 20 40
SCALE 1"=40'

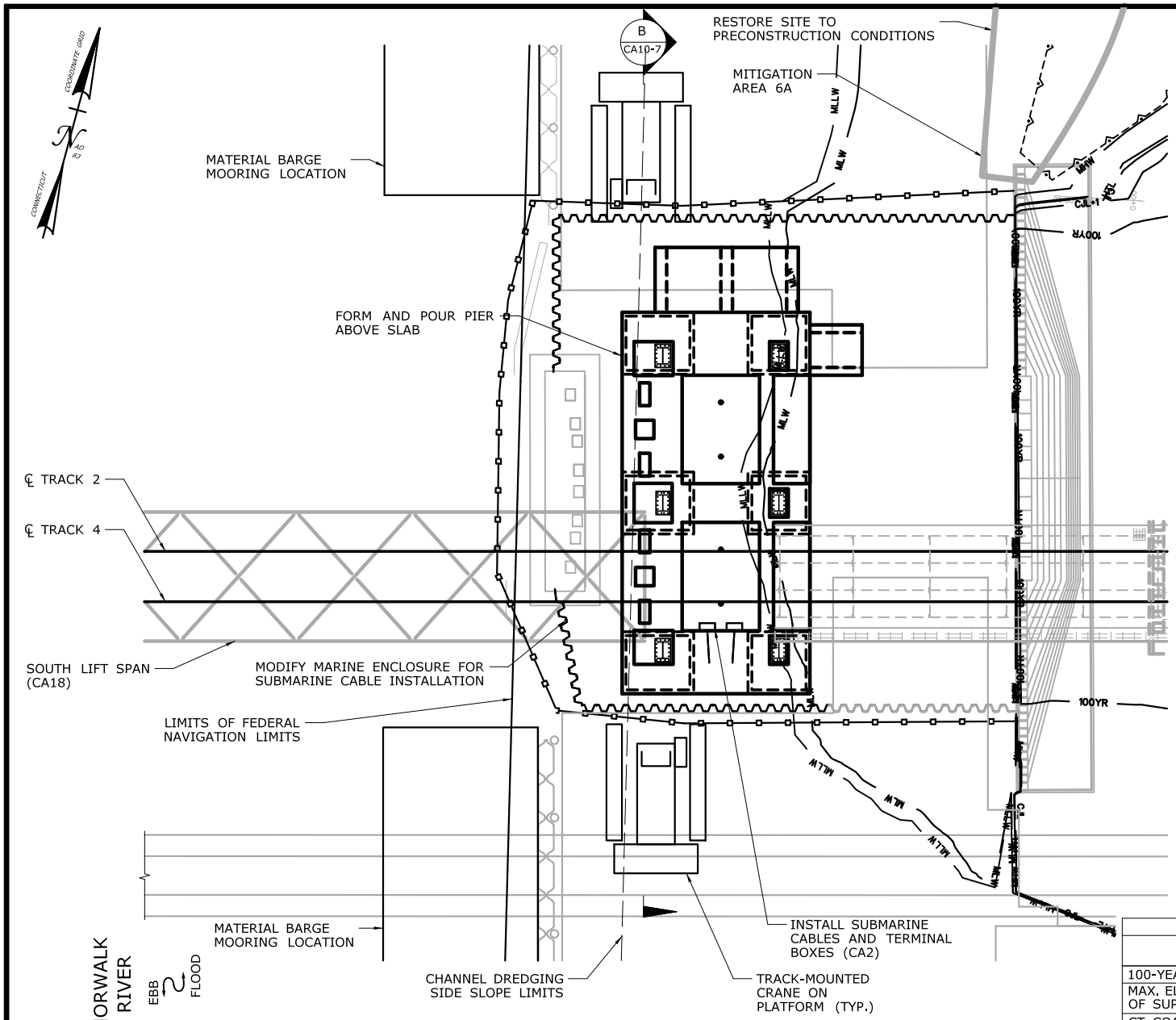
DRAWN: T. ADINOLFI
CHECKED: V. ROBBINS
APPROVED: C. BROWN

SIGNATURE BLOCK:

STATE OF CONNECTICUT
DEPARTMENT OF TRANSPORTATION

PROJECT TITLE:
WALK BRIDGE REPLACEMENT OVER THE NORWALK RIVER BRIDGE NO. 04288R/MP 41.5

TOWN: **NORWALK**
PROJECT NO.: **0301-0176**
DRAWING TITLE: **ACTIVITY 10 PIER 3 CONSTRUCTION (SHEET 5 OF 7)**
DATE: **REV 7-31-20**
DRAWING NO.: **CA10-5**



PLAN

CONSTRUCTION SEQUENCE

THE SHEETS IN THIS SUBSET DESCRIBE THE SEQUENCE OF ACTIVITIES REQUIRED TO BUILD PIER 3 WITH REFERENCES TO RELATED ACTIVITIES THROUGHOUT. FOR DETAILS OF RELATED ACTIVITIES, REFER TO THE SUBSETS NOTED IN PARENTHESES. WORK DEPICTED ON THIS SHEET IS IDENTIFIED WITH AN "X" IN THE TABLE.

	WORK DESCRIPTION
	CLOSE EAST CHANNEL TO NAVIGATION.
	SET TURBIDITY CURTAIN AND INSTALL MARINE ENCLOSURE.
	EXCAVATE WITHIN MARINE ENCLOSURE.
	INSTALL TEMPORARY PILES AND UNDER-BRIDGE WORK PLATFORM.
	INSTALL DRILLED SHAFTS OUTSIDE THE LIMITS OF THE EXISTING BRIDGE AND INSTALL MICROPILES BENEATH THE EXISTING BRIDGE.
	REMOVE TEMPORARY PILES OUTSIDE THE LIMITS OF THE EXISTING BRIDGE.
	CONSTRUCT CONCRETE CAPS AND INSTALL PRECAST CONCRETE TUBS AT FOUNDATIONS.
	FORM, SET REINFORCING STEEL, AND POUR THE CONCRETE PIER SLAB.
	REMOVE THE UNDER-BRIDGE WORK PLATFORM AND CUT-OFF THE REMAINING TEMPORARY PILES.
X	FORM, SET REINFORCING STEEL AND ANCHOR BOLTS, AND POUR THE REMAINING PIER CONCRETE ABOVE THE SLAB.
X	INSTALL SUBMARINE CABLES AND TERMINAL BOXES (SEE ACTIVITY 2).
X	RESTORE WETLAND AREA TO PRE-CONSTRUCTION CONDITIONS (SEE ALSO ACTIVITY 16).

NOTES:

1. VERTICAL DATUM IS NAVD 88. ELEVATIONS RELATIVE TO MLLW TIDAL DATUM ARE SHOWN IN PARENTHESES.
2. FINAL CONCRETE POUR WILL TAKE PLACE FOLLOWING INSTALLATION OF THE SOUTH LIFT SPAN DURING A SERVICE OUTAGE ON TRACKS 1 AND 3.
3. THE MARINE ENCLOSURE WILL BE MODIFIED AS NEED TO INSTALL BRIDGE POWER AND CONTROL DUCTS.
4. THE MARINE ENCLOSURE WILL BE USED DURING EXISTING PIER REMOVAL AS PART OF ACTIVITY 14.

ELEVATION TABLE

DESCRIPTION	CONTOUR	ELEVATION (NAVD88)	ELEVATION (MLLW)
100-YEAR FLOODPLAIN	100 YR	10.0/12.0	13.98/15.98
MAX. ELEVATION OF LAND CAPABLE OF SUPPORTING TIDAL VEGETATION	CJL+1	6.4	10.38
CT COASTAL JURISDICTION LINE	CJL	5.4	9.38
HIGH TIDE LINE	HTL	5.2	9.18
MEAN HIGH WATER LINE	MHW	3.35	7.33
MEAN LOW WATER LINE	MLW	-3.72	0.26
MEAN LOWER LOW WATER LINE	MLLW	-3.98	0

SCALE:
SCALE IN FEET
0 20 40
SCALE 1"=40'

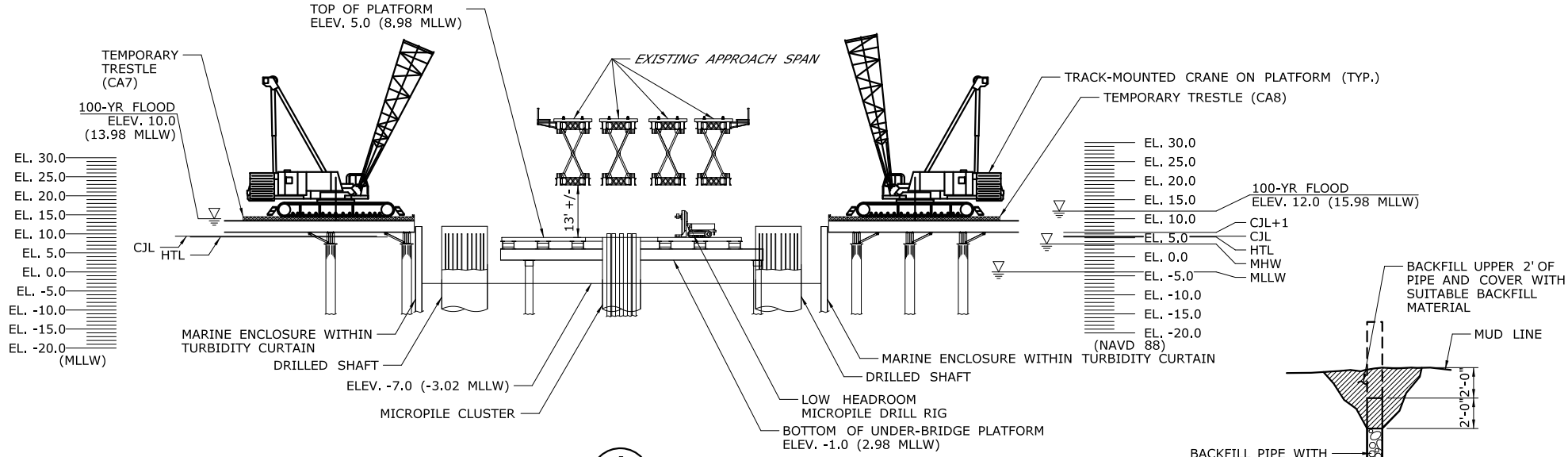
DRAWN: T. ADINOLFI
CHECKED: V. ROBBINS
APPROVED: C. BROWN

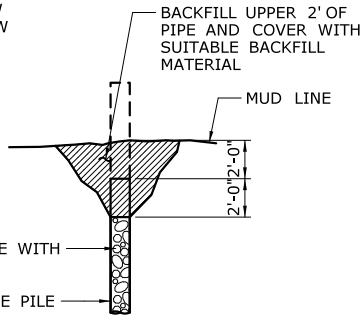
SIGNATURE BLOCK:

STATE OF CONNECTICUT
DEPARTMENT OF TRANSPORTATION

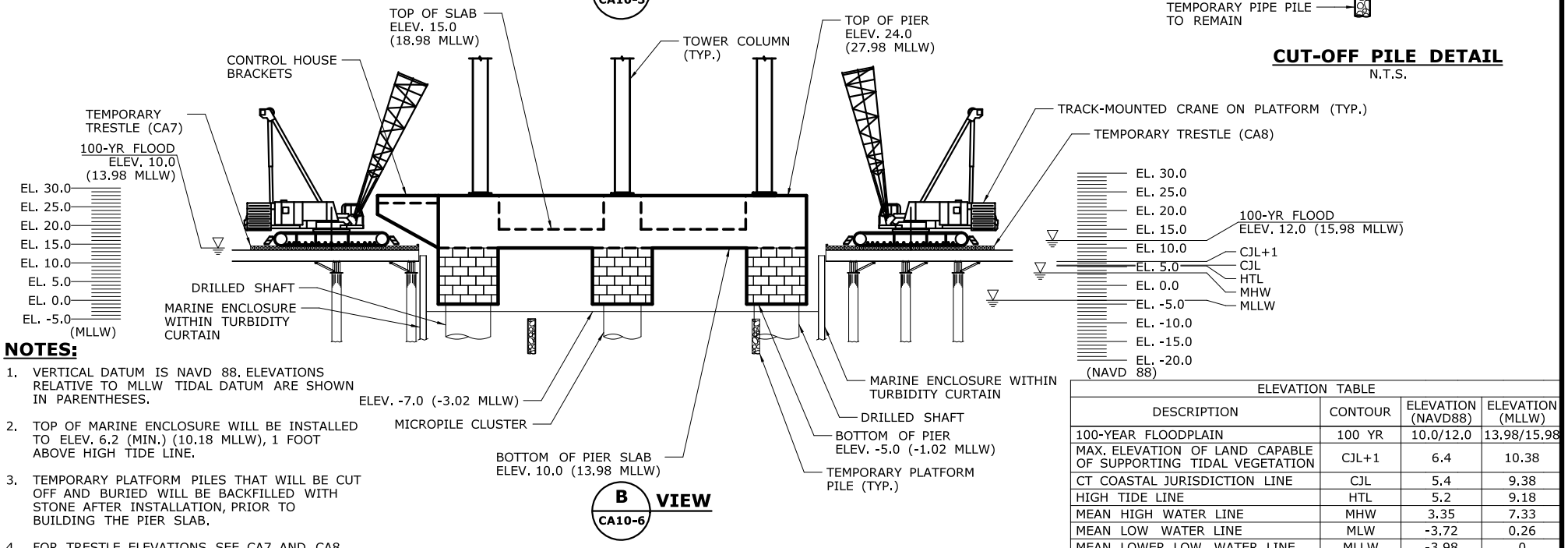
PROJECT TITLE:
WALK BRIDGE REPLACEMENT OVER THE NORWALK RIVER BRIDGE NO. 04288R/MP 41.5

TOWN: **NORWALK**
PROJECT NO.: **0301-0176**
DRAWING TITLE: **ACTIVITY 10 PIER 3 CONSTRUCTION (SHEET 6 OF 7)**
DATE: **REV 7-31-20**
DRAWING NO.: **CA10-6**





CUT-OFF PILE DETAIL
N.T.S.



NOTES:

1. VERTICAL DATUM IS NAVD 88. ELEVATIONS RELATIVE TO MLLW TIDAL DATUM ARE SHOWN IN PARENTHESES.
2. TOP OF MARINE ENCLOSURE WILL BE INSTALLED TO ELEV. 6.2 (MIN.) (10.18 MLLW), 1 FOOT ABOVE HIGH TIDE LINE.
3. TEMPORARY PLATFORM PILES THAT WILL BE CUT OFF AND BURIED WILL BE BACKFILLED WITH STONE AFTER INSTALLATION, PRIOR TO BUILDING THE PIER SLAB.
4. FOR TRESTLE ELEVATIONS, SEE CA7 AND CA8.

ELEVATION TABLE

DESCRIPTION	CONTOUR	ELEVATION (NAVD88)	ELEVATION (MLLW)
100-YEAR FLOODPLAIN	100 YR	10.0/12.0	13.98/15.98
MAX. ELEVATION OF LAND CAPABLE OF SUPPORTING TIDAL VEGETATION	CJL+1	6.4	10.38
CT COASTAL JURISDICTION LINE	CJL	5.4	9.38
HIGH TIDE LINE	HTL	5.2	9.18
MEAN HIGH WATER LINE	MHW	3.35	7.33
MEAN LOW WATER LINE	MLW	-3.72	0.26
MEAN LOWER LOW WATER LINE	MLLW	-3.98	0

SCALE:
SCALE IN FEET
0 20 40
SCALE 1"=40'
(EXCEPT AS NOTED)

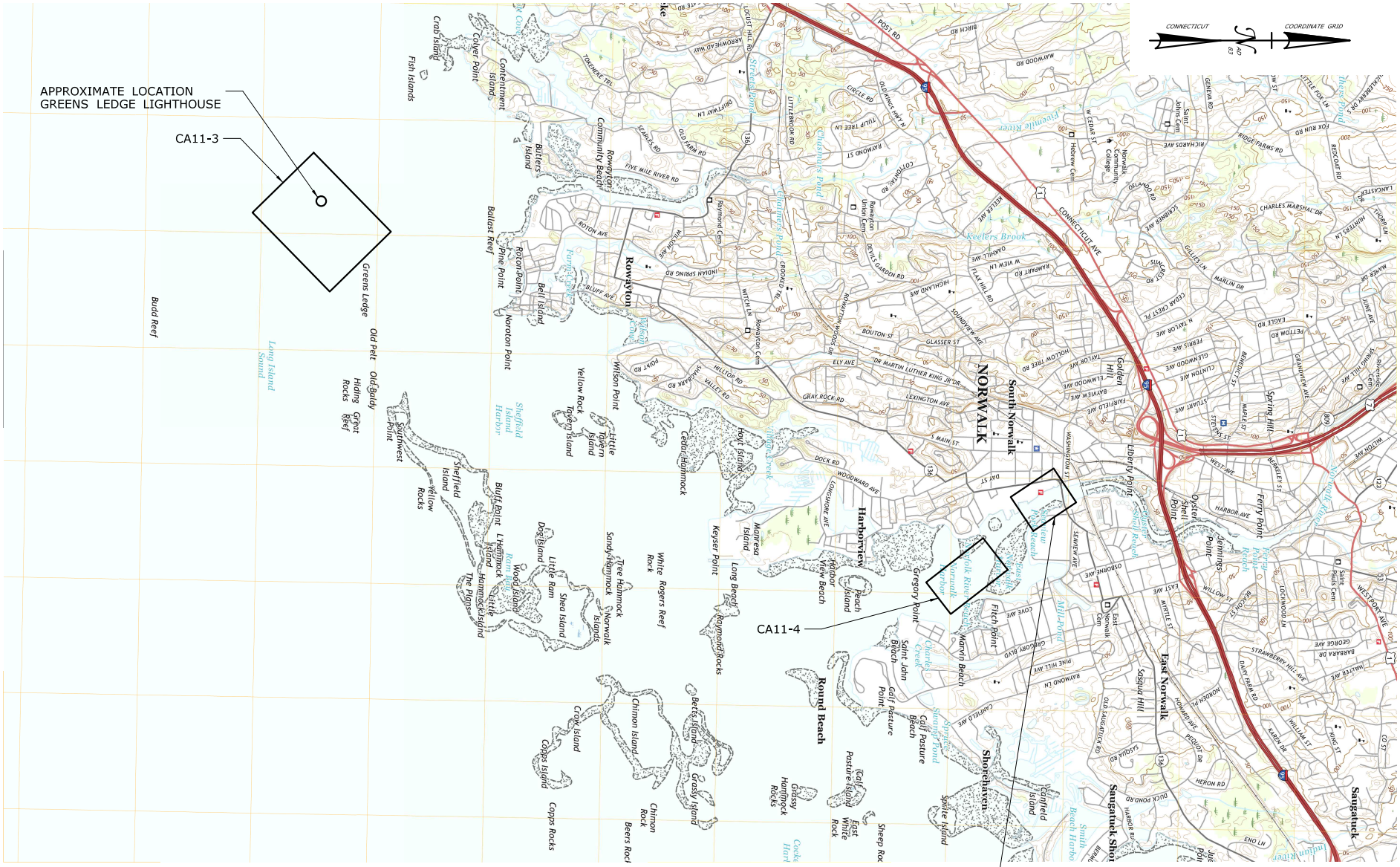
DRAWN: T. ADINOLFI
CHECKED: V. ROBBINS
APPROVED: C. BROWN

SIGNATURE BLOCK:

STATE OF CONNECTICUT
DEPARTMENT OF TRANSPORTATION

PROJECT TITLE:
WALK BRIDGE REPLACEMENT OVER THE NORWALK RIVER BRIDGE NO. 04288R/MP 41.5

TOWN: **NORWALK**
PROJECT NO.: **0301-0176**
DRAWING TITLE: **ACTIVITY 10 PIER 3 CONSTRUCTION (SHEET 7 OF 7)**
DATE: **REV 7-31-20**
DRAWING NO.: **CA10-7**

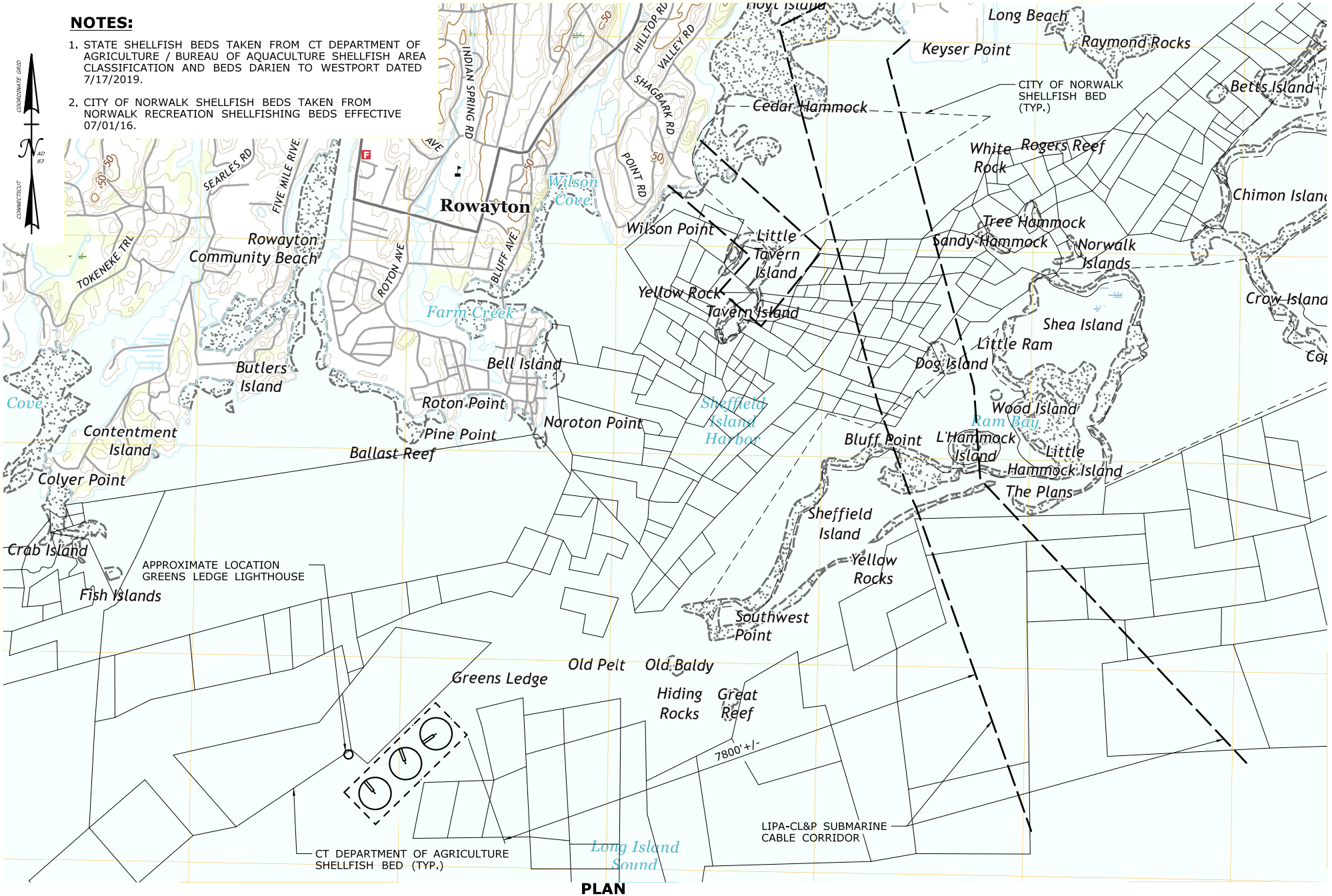


PLAN

SCALE: SCALE 1" = 4000' (0 2000 4000)	DRAWN: T. ADINOLFI CHECKED: V. ROBBINS APPROVED: C. BROWN	SIGNATURE BLOCK:	STATE OF CONNECTICUT DEPARTMENT OF TRANSPORTATION	PROJECT TITLE: WALK BRIDGE REPLACEMENT OVER THE NORWALK RIVER BRIDGE NO. 04288R/MP 41.5	TOWN: NORWALK DRAWING TITLE: ACTIVITY 11 BARGE MOORING (SHEET 1 OF 6)	PROJECT NO.: 0301-0176 DATE: REV 02-23-21 DRAWING NO.: CA11-1

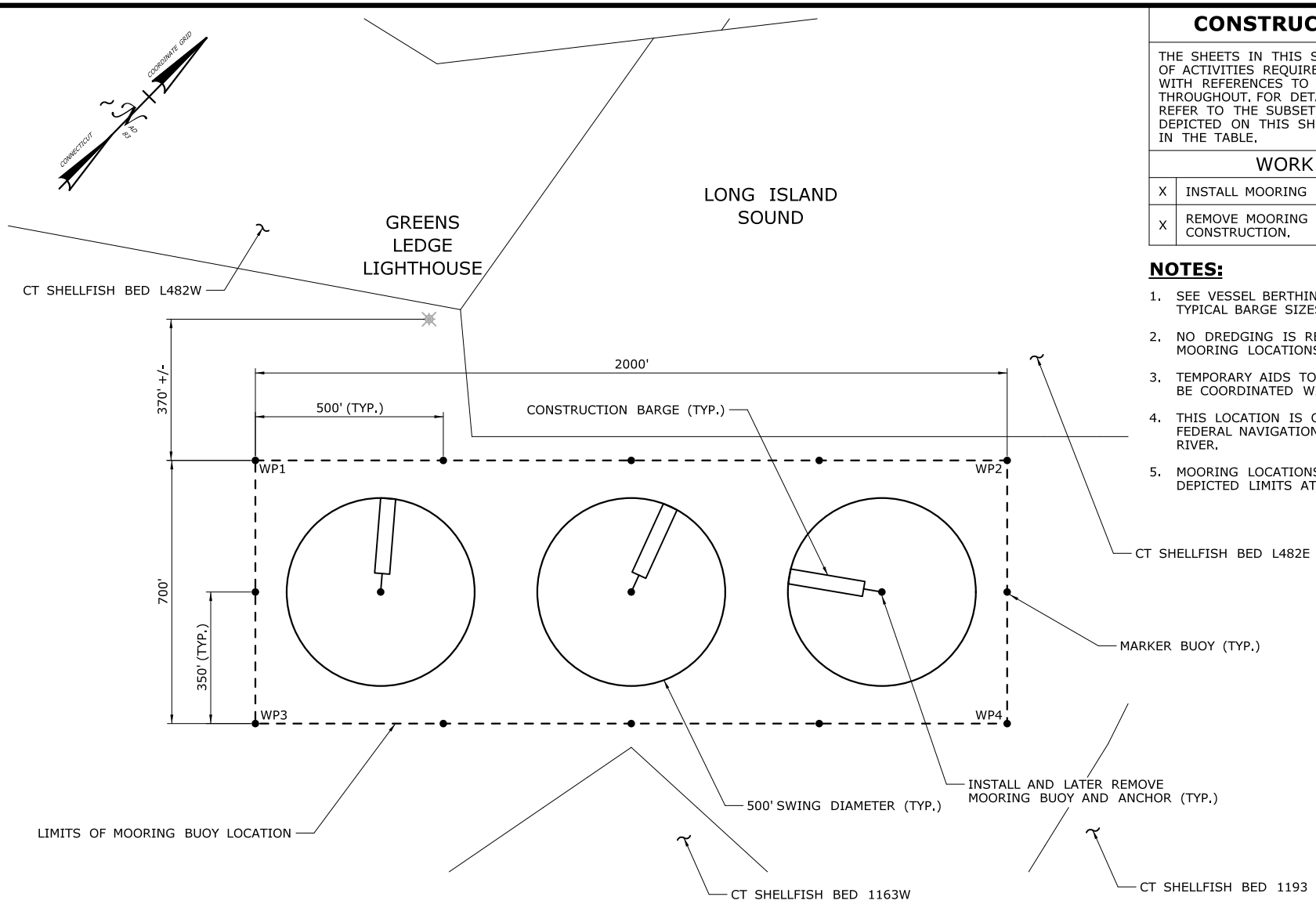
NOTES:

1. STATE SHELLFISH BEDS TAKEN FROM CT DEPARTMENT OF AGRICULTURE / BUREAU OF AQUACULTURE SHELLFISH AREA CLASSIFICATION AND BEDS DARIEN TO WESTPORT DATED 7/17/2019.
2. CITY OF NORWALK SHELLFISH BEDS TAKEN FROM NORWALK RECREATION SHELLFISHING BEDS EFFECTIVE 07/01/16.



PLAN

SCALE: SCALE 1" = 2000' (0 1000 2000)	DRAWN: T. ADINOLFI CHECKED: L. COLES APPROVED: C. BROWN	SIGNATURE BLOCK:	STATE OF CONNECTICUT DEPARTMENT OF TRANSPORTATION	PROJECT TITLE: WALK BRIDGE REPLACEMENT OVER THE NORWALK RIVER BRIDGE NO. 04288R/MP 41.5	TOWN: NORWALK DRAWING TITLE: ACTIVITY 11 BARGE MOORING (SHEET 2 OF 6)	PROJECT NO.: 0301-0176 DATE: REV 02-23-21 DRAWING NO.: CA11-2



PLAN

WORKING POINT	NORTHING	EASTING
WP1	576,078	808,522
WP2	577,475	809,953
WP3	575,577	809,012
WP4	576,974	810,442

CONSTRUCTION SEQUENCE

THE SHEETS IN THIS SUBSET DESCRIBE THE SEQUENCE OF ACTIVITIES REQUIRED TO BUILD BARGE MOORINGS WITH REFERENCES TO RELATED ACTIVITIES THROUGHOUT. FOR DETAILS OF RELATED ACTIVITIES, REFER TO THE SUBSETS NOTED IN PARENTHESES. WORK DEPICTED ON THIS SHEET IS IDENTIFIED WITH AN "X" IN THE TABLE.

	WORK DESCRIPTION
X	INSTALL MOORING BUOY AND ANCHOR.
X	REMOVE MOORING BUOY AND ANCHOR AT END OF CONSTRUCTION.

NOTES:

1. SEE VESSEL BERTHING PLAN (DWG. GEN-9) FOR TYPICAL BARGE SIZES.
2. NO DREDGING IS REQUIRED FOR ANY BARGE MOORING LOCATIONS.
3. TEMPORARY AIDS TO NAVIGATION (E.G., LIGHTS) WILL BE COORDINATED WITH THE USCG.
4. THIS LOCATION IS OUTSIDE THE LIMITS OF THE FEDERAL NAVIGATION CHANNEL FOR THE NORWALK RIVER.
5. MOORING LOCATIONS WILL NOT EXCEED THE DEPICTED LIMITS AT ANY TIDE.

SCALE: SCALE 1" = 400' (0 200 400)

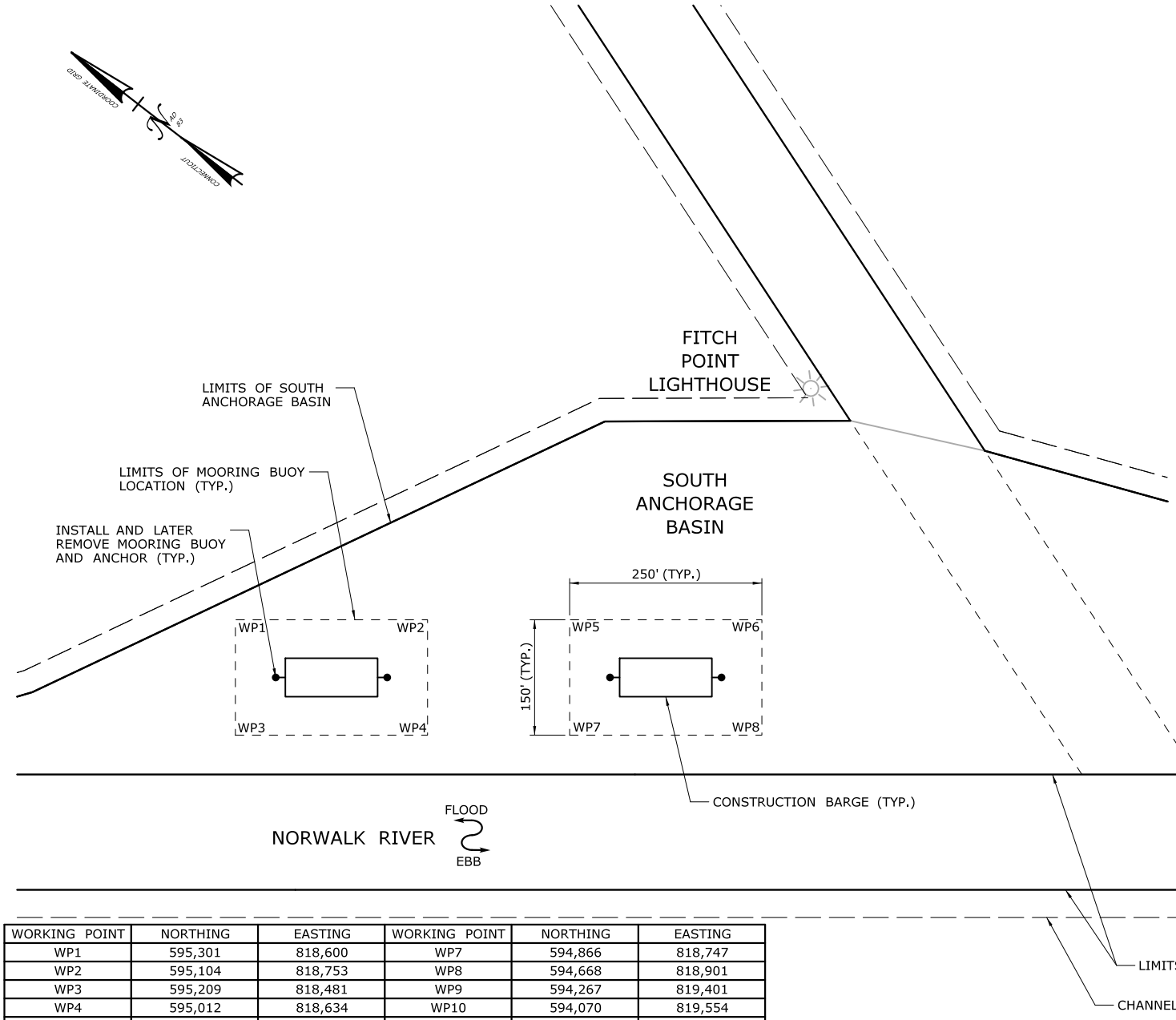
DRAWN: T. ADINOLFI
CHECKED: V. ROBBINS
APPROVED: C. BROWN

SIGNATURE BLOCK:

STATE OF CONNECTICUT
DEPARTMENT OF TRANSPORTATION

PROJECT TITLE:
WALK BRIDGE REPLACEMENT OVER THE NORWALK RIVER BRIDGE NO. 04288R/MP 41.5

TOWN: **NORWALK**
PROJECT NO.: **0301-0176**
DRAWING TITLE: **ACTIVITY 11 BARGE MOORING (SHEET 3 OF 6)**
DATE: **REV 02-23-21**
DRAWING NO.: **CA11-3**



CONSTRUCTION SEQUENCE

THE SHEETS IN THIS SUBSET DESCRIBE THE SEQUENCE OF ACTIVITIES REQUIRED TO BUILD BARGE MOORINGS WITH REFERENCES TO RELATED ACTIVITIES THROUGHOUT. FOR DETAILS OF RELATED ACTIVITIES, REFER TO THE SUBSETS NOTED IN PARENTHESES. WORK DEPICTED ON THIS SHEET IS IDENTIFIED WITH AN "X" IN THE TABLE.

	WORK DESCRIPTION
X	INSTALL MOORING BUOY AND ANCHOR.
X	REMOVE MOORING BUOY AND ANCHOR AT END OF CONSTRUCTION.

NOTES:

1. SEE VESSEL BERTHING PLAN (DWG. GEN-9) FOR TYPICAL BARGE SIZES.
2. NO DREDGING IS REQUIRED FOR ANY BARGE MOORING LOCATIONS.
3. TEMPORARY AIDS TO NAVIGATION (E.G., LIGHTS) WILL BE COORDINATED WITH THE USCG.
4. MOORING LOCATIONS WILL NOT EXCEED THE DEPICTED LIMITS AT ANY TIDE.
5. THIS LOCATION IS OUTSIDE THE LIMITS OF THE FEDERAL NAVIGATION CHANNEL FOR THE NORWALK RIVER.
6. THIS LOCATION IS WITHIN TRACT 6 ON THE CT DEPARTMENT OF AGRICULTURE / BUREAU OF AQUACULTURE SHELLFISH AREA CLASSIFICATION AND BEDS MAP DATED 07/17/2019. THE NORTHERN PORTION IS CLASSIFIED AS PROHIBITED AND THE SOUTHERN PORTION IS CLASSIFIED AS CONDITIONALLY RESTRICTED-RELAY. THIS AREA IS CLOSED ON THE CITY OF NORWALK RECREATIONAL SHELLFISH MAP EFFECTIVE 07/01/2016.

WORKING POINT	NORTHING	EASTING	WORKING POINT	NORTHING	EASTING
WP1	595,301	818,600	WP7	594,866	818,747
WP2	595,104	818,753	WP8	594,668	818,901
WP3	595,209	818,481	WP9	594,267	819,401
WP4	595,012	818,634	WP10	594,070	819,554
WP5	594,958	818,866	WP11	594,175	819,283
WP6	594,760	819,019	WP12	593,978	819,436

PLAN

SCALE: SCALE 1" = 200' (0, 100, 200)

DRAWN: T. ADINOLFI
CHECKED: V. ROBBINS
APPROVED: C. BROWN

SIGNATURE BLOCK:

STATE OF CONNECTICUT
DEPARTMENT OF TRANSPORTATION

PROJECT TITLE: WALK BRIDGE REPLACEMENT OVER THE NORWALK RIVER BRIDGE NO. 04288R/MP 41.5

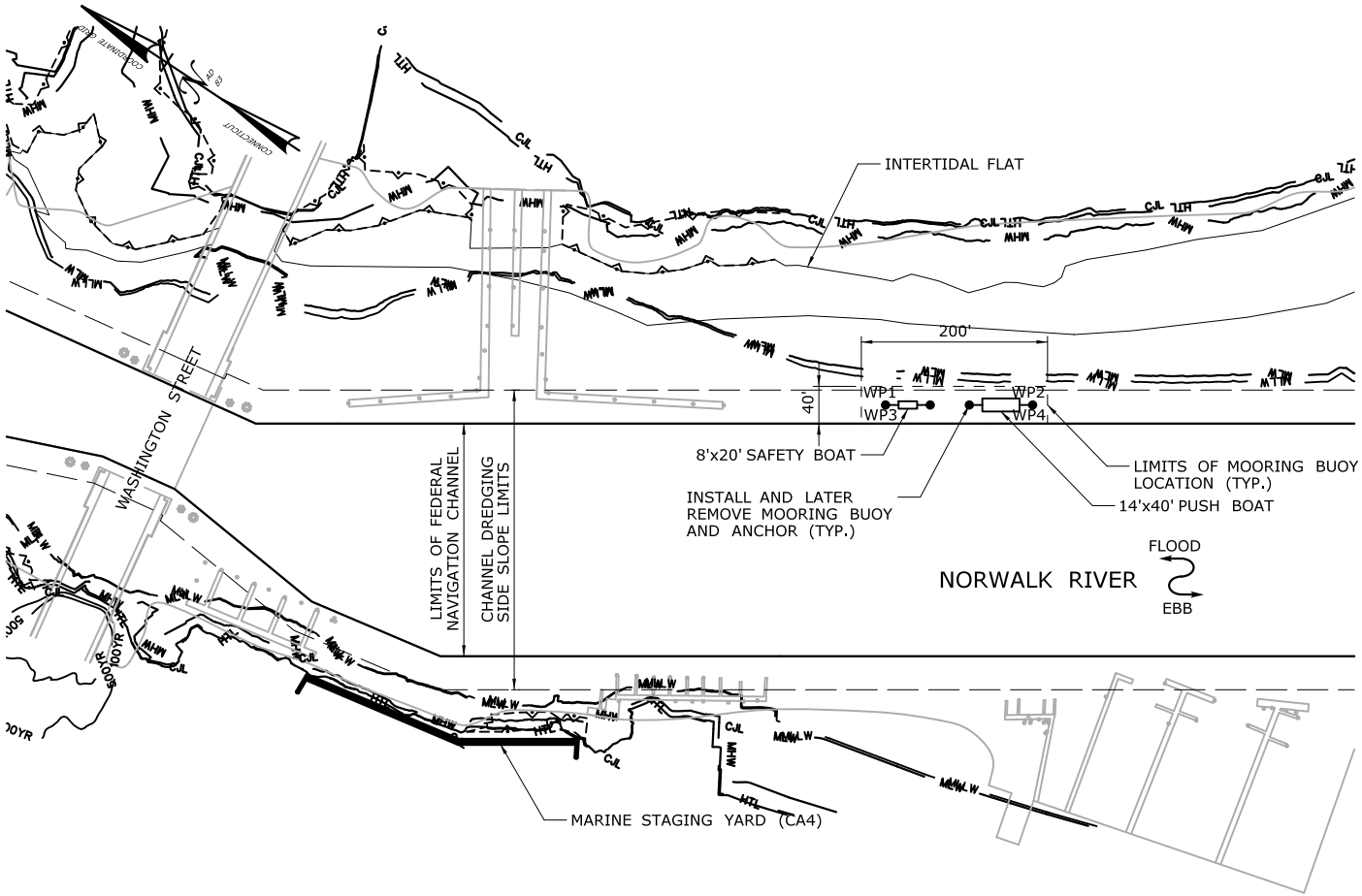
TOWN: NORWALK

DRAWING TITLE: ACTIVITY 11 BARGE MOORING (SHEET 4 OF 6)

PROJECT NO.: 0301-0176

DATE: REV 02-23-21

DRAWING NO.: CA11-4



CONSTRUCTION SEQUENCE

THE SHEETS IN THIS SUBSET DESCRIBE THE SEQUENCE OF ACTIVITIES REQUIRED TO BUILD BARGE MOORINGS WITH REFERENCES TO RELATED ACTIVITIES THROUGHOUT. FOR DETAILS OF RELATED ACTIVITIES, REFER TO THE SUBSETS NOTED IN PARENTHESES. WORK DEPICTED ON THIS SHEET IS IDENTIFIED WITH AN "X" IN THE TABLE.

	WORK DESCRIPTION
X	INSTALL MOORING BUOY AND ANCHOR.
X	REMOVE MOORING BUOY AND ANCHOR AT END OF CONSTRUCTION.

NOTES:

1. SEE VESSEL BERTHING PLAN (DWG. GEN-9) FOR TYPICAL BARGE SIZES.
2. NO DREDGING IS REQUIRED FOR ANY BARGE MOORING LOCATIONS.
3. TEMPORARY AIDS TO NAVIGATION (E.G., LIGHTS) WILL BE COORDINATED WITH THE USCG.
4. MOORING LOCATIONS WILL NOT EXCEED THE DEPICTED LIMITS AT ANY TIDE.
5. THIS LOCATION WILL BE USED TO MOOR SMALLER WORK BOATS AND CONSTRUCTION VESSELS.
6. THIS LOCATION IS OUTSIDE THE LIMITS FOR THE FEDERAL NAVIGATION CHANNEL FOR THE NORWALK RIVER.

PLAN

WORKING POINT	NORTHING	EASTING
WP1	596,871	817,238
WP2	596,704	817,349
WP3	596,849	817,205
WP4	596,682	817,316

SCALE: SCALE 1" = 200'
0 100 200

DRAWN: T. ADINOLFI
CHECKED: V. ROBBINS
APPROVED: C. BROWN

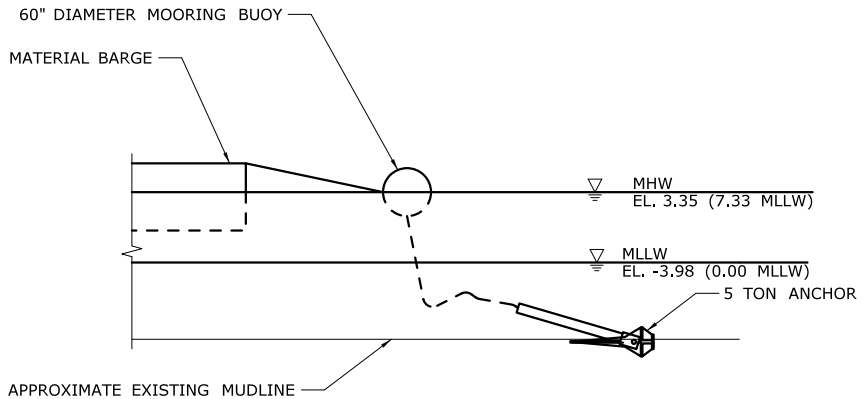
SIGNATURE BLOCK:

STATE OF CONNECTICUT
DEPARTMENT OF TRANSPORTATION

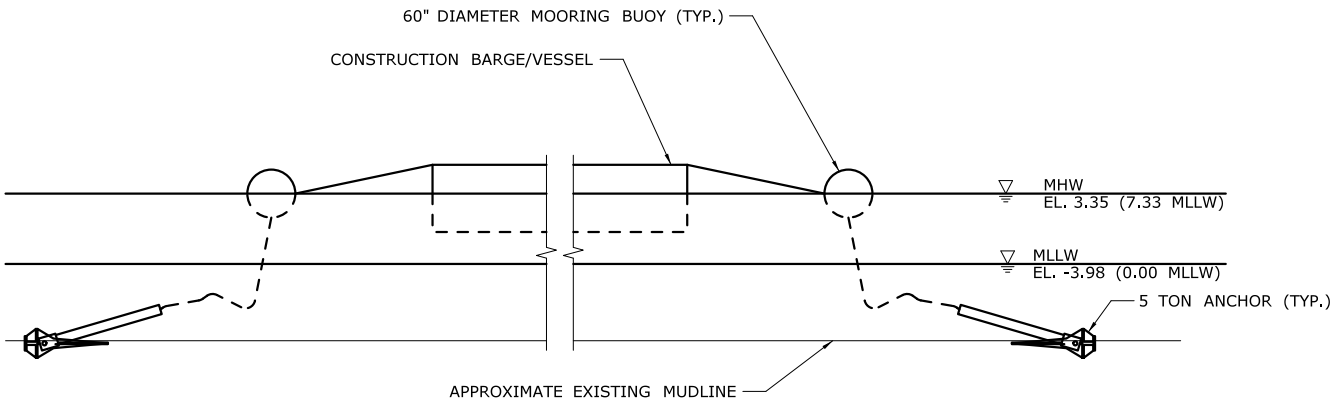
PROJECT TITLE:
WALK BRIDGE REPLACEMENT OVER THE NORWALK RIVER BRIDGE NO. 04288R/MP 41.5

TOWN: **NORWALK**
DRAWING TITLE: **ACTIVITY 11 BARGE MOORING (SHEET 5 OF 6)**

PROJECT NO.: **0301-0176**
DATE: **REV 02-23-21**
DRAWING NO.: **CA11-5**



SWING MOORING DETAIL



FIXED MOORING DETAIL

NOTES:

1. VERTICAL DATUM IS NAVD 88. ELEVATIONS RELATIVE TO MLLW TIDAL DATUM ARE SHOWN IN PARENTHESES.

ELEVATION TABLE			
DESCRIPTION	CONTOUR	ELEVATION (NAVD88)	ELEVATION (MLLW)
100-YEAR FLOODPLAIN	100 YR	14.0	17.98
MAX. ELEVATION OF LAND CAPABLE OF SUPPORTING TIDAL VEGETATION	CJL+1	6.4	10.38
CT COASTAL JURISDICTION LINE	CJL	5.4	9.38
HIGH TIDE LINE	HTL	5.2	9.18
MEAN HIGH WATER LINE	MHW	3.35	7.33
MEAN LOW WATER LINE	MLW	-3.72	0.26
MEAN LOWER LOW WATER LINE	MLLW	-3.98	0.00

SCALE: SCALE 1" = 20' (0, 10, 20)

DRAWN: T. ADINOLFI
CHECKED: V. ROBBINS
APPROVED: C. BROWN

SIGNATURE BLOCK:

STATE OF CONNECTICUT
DEPARTMENT OF TRANSPORTATION

PROJECT TITLE:
WALK BRIDGE REPLACEMENT OVER THE NORWALK RIVER BRIDGE NO. 04288R/MP 41.5

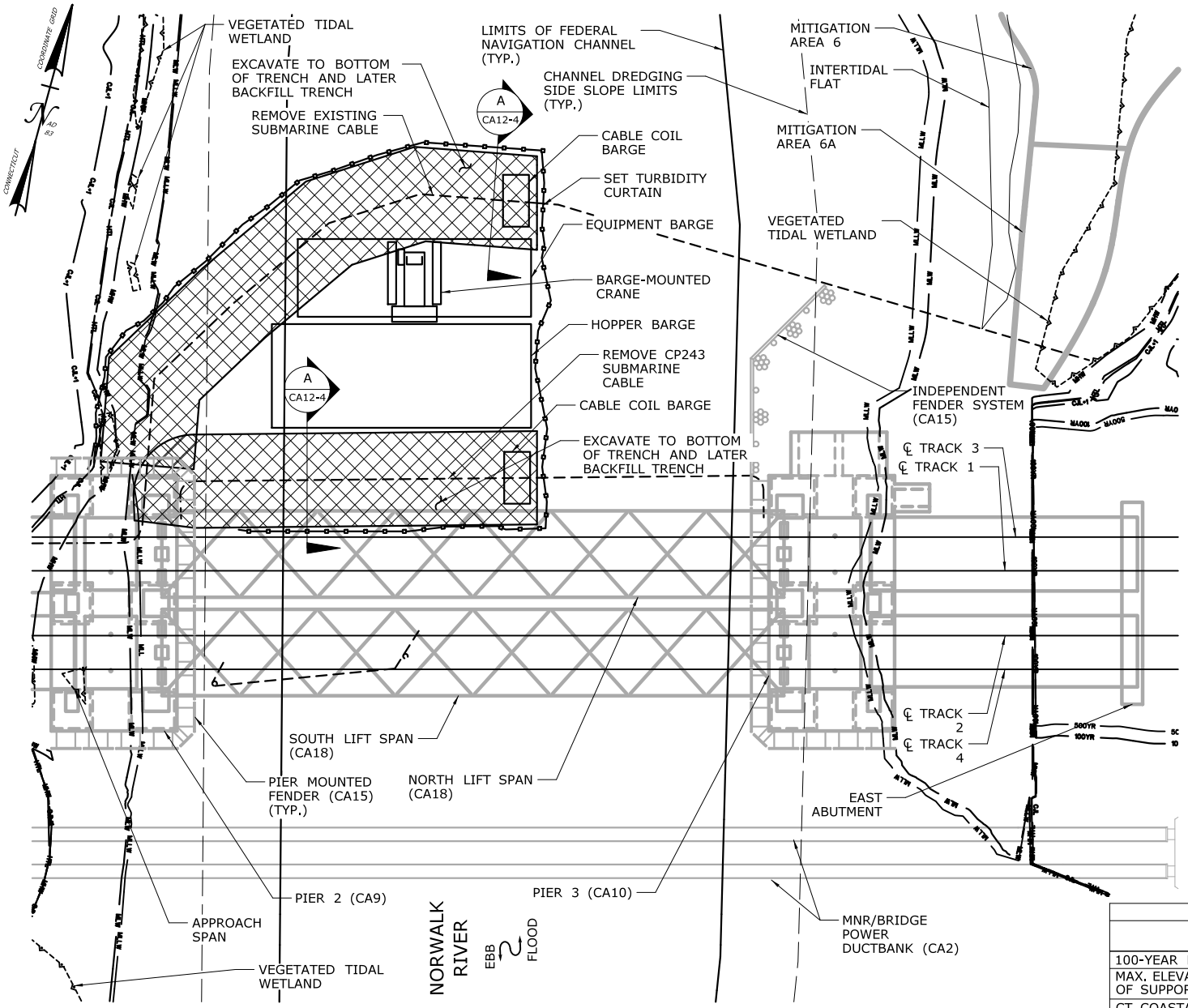
TOWN: **NORWALK**

DRAWING TITLE: **ACTIVITY 11 BARGE MOORING (SHEET 6 OF 6)**

PROJECT NO.: **0301-0176**

DATE: **REV 02-23-21**

DRAWING NO.: **CA11-6**



PLAN

CONSTRUCTION SEQUENCE

THE SHEETS IN THIS SUBSET DESCRIBE THE SEQUENCE OF ACTIVITIES REQUIRED TO REMOVE THE EXISTING SUBMARINE CABLES WITH REFERENCES TO RELATED ACTIVITIES THROUGHOUT. FOR DETAILS OF RELATED ACTIVITIES, REFER TO THE SUBSETS NOTED IN PARENTHESES. WORK DEPICTED ON THIS SHEET IS IDENTIFIED WITH AN "X" IN THE TABLE.

	WORK DESCRIPTION
X	RESTRICT NAVIGATION TO ONE CHANNEL. MOBILIZE BARGES TO CLOSED CHANNEL.
X	SET TURBIDITY CURTAIN.
X	EXCAVATE TO BOTTOM OF TRENCH.
X	REMOVE EXISTING SUBMARINE CABLES WITHIN LIMITS OF EXCAVATION.
X	BACKFILL TRENCH.
	MOVE NAVIGATION RESTRICTION TO THE OTHER CHANNEL. MOBILIZE BARGES.
	SET TURBIDITY CURTAIN.
	EXCAVATE TO BOTTOM OF TRENCH.
	REMOVE REMAINDER OF EXISTING SUBMARINE CABLES.
	BACKFILL TRENCH.

NOTES:

1. BARGE AND TURBIDITY CURTAIN PLACEMENT WILL BE ADJUSTED AS NEEDED FOR EXCAVATION ACCESS.
2. EXCAVATED MATERIAL AND DEWATERED WASTEWATERS SHALL BE MANAGED IN ACCORDANCE WITH THE ENVIRONMENTAL SPECIAL PROVISIONS AND CTDEEP REQUIREMENTS.
3. WORK DEPICTED AS PROGRESSING FROM WEST CHANNEL TO EAST CHANNEL FOR ILLUSTRATION PURPOSES AND MAY BE REVERSED. IN EITHER CASE, ONLY ONE CHANNEL WILL BE OCCUPIED AT A TIME.
4. TEMPORARY AIDS TO NAVIGATION (E.G., LIGHTS) WILL BE COORDINATED WITH THE USCG.
5. SEE VESSEL BERTHING PLAN (DWG. GEN-9) FOR TYPICAL BARGE SIZES.
6. THIS ACTIVITY IS CONTAINED ENTIRELY WITHIN THE 100-YR FLOODPLAIN.
7. THIS WORK SHALL BE CONDUCTED IN THE UNCONFINED DREDGING WINDOW IN DECEMBER AND JANUARY.

ELEVATION TABLE

DESCRIPTION	CONTOUR	ELEVATION (NAVD88)	ELEVATION (MLLW)
100-YEAR FLOODPLAIN	100 YR	10.0/12.0	13.98/15.98
MAX. ELEVATION OF LAND CAPABLE OF SUPPORTING TIDAL VEGETATION	CJL+1	6.4	10.38
CT COASTAL JURISDICTION LINE	CJL	5.4	9.38
HIGH TIDE LINE	HTL	5.2	9.18
MEAN HIGH WATER LINE	MHW	3.35	7.33
MEAN LOW WATER LINE	MLW	-3.72	0.26
MEAN LOWER LOW WATER LINE	MLLW	-3.98	0

SCALE:
SCALE IN FEET
0 30 60
SCALE 1"=60'

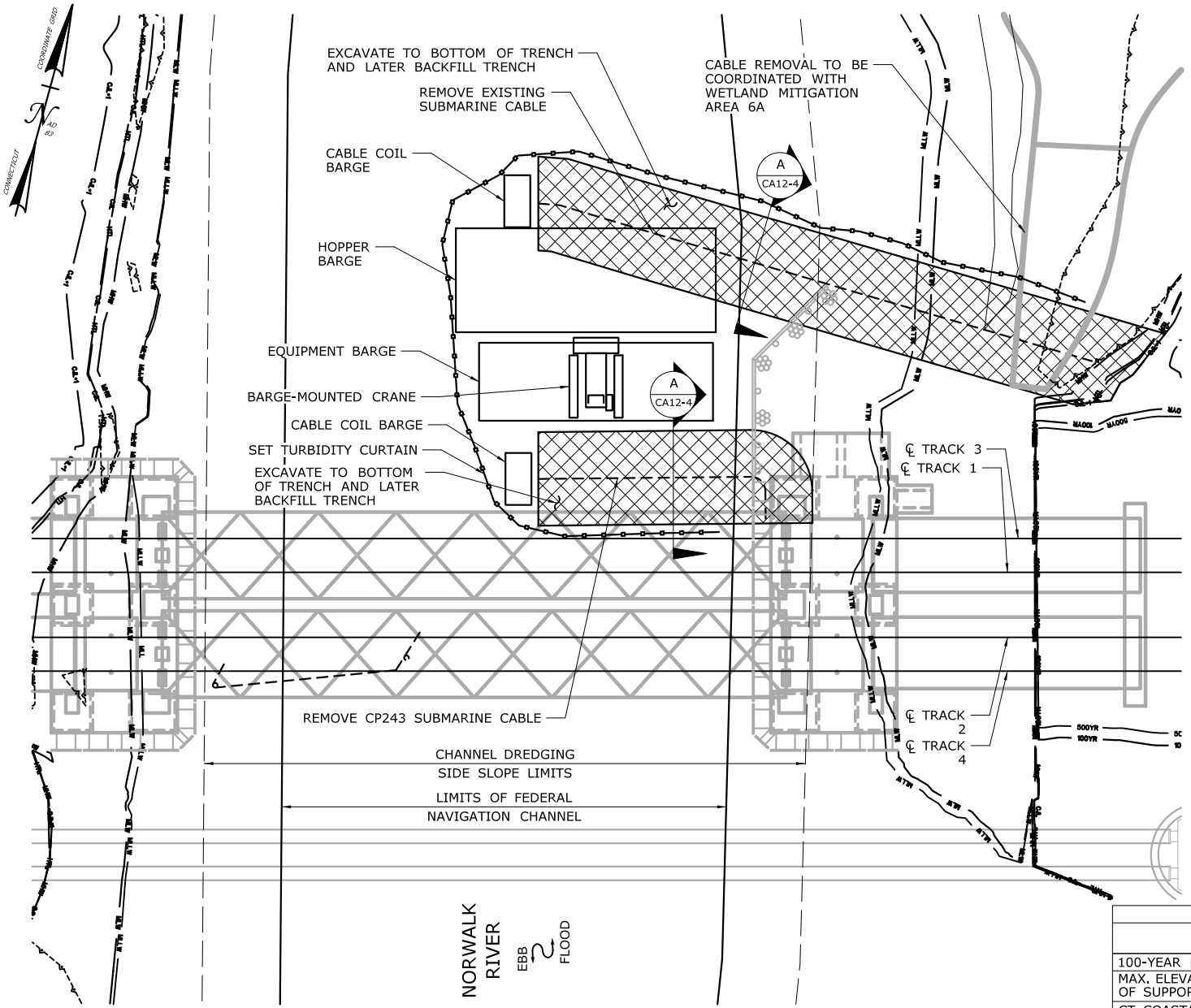
DRAWN: T. ADINOLFI
CHECKED: V. ROBBINS
APPROVED: C. BROWN

SIGNATURE BLOCK:

STATE OF CONNECTICUT
DEPARTMENT OF TRANSPORTATION

PROJECT TITLE:
WALK BRIDGE REPLACEMENT OVER THE NORWALK RIVER BRIDGE NO. 04288R/MP 41.5

TOWN: **NORWALK**
PROJECT NO.: **0301-0176**
DRAWING TITLE: **ACTIVITY 12 SUBMARINE CABLE REMOVAL (1 OF 4)**
DATE: **REV 02-23-21**
DRAWING NO.: **CA12-1**



PLAN

CONSTRUCTION SEQUENCE

THE SHEETS IN THIS SUBSET DESCRIBE THE SEQUENCE OF ACTIVITIES REQUIRED TO REMOVE THE EXISTING SUBMARINE CABLES WITH REFERENCES TO RELATED ACTIVITIES THROUGHOUT. FOR DETAILS OF RELATED ACTIVITIES, REFER TO THE SUBSETS NOTED IN PARENTHESES. WORK DEPICTED ON THIS SHEET IS IDENTIFIED WITH AN "X" IN THE TABLE.

	WORK DESCRIPTION
	RESTRICT NAVIGATION TO ONE CHANNEL. MOBILIZE BARGES TO CLOSED CHANNEL.
	SET TURBIDITY CURTAIN.
	EXCAVATE TO BOTTOM OF TRENCH.
	REMOVE EXISTING SUBMARINE CABLES WITHIN LIMITS OF EXCAVATION.
	BACKFILL TRENCH.
X	MOVE NAVIGATION RESTRICTION TO THE OTHER CHANNEL. MOBILIZE BARGES.
X	SET TURBIDITY CURTAIN.
X	EXCAVATE TO BOTTOM OF TRENCH.
X	REMOVE REMAINDER OF EXISTING SUBMARINE CABLES.
X	BACKFILL TRENCH.

NOTES:

1. BARGE AND TURBIDITY CURTAIN PLACEMENT WILL BE ADJUSTED AS NEEDED FOR EXCAVATION ACCESS.
2. EXCAVATED MATERIAL AND DEWATERED WASTEWATERS SHALL BE MANAGED IN ACCORDANCE WITH THE ENVIRONMENTAL SPECIAL PROVISIONS AND CTDEEP REQUIREMENTS.
3. WORK DEPICTED AS PROGRESSING FROM WEST CHANNEL TO EAST CHANNEL FOR ILLUSTRATION PURPOSES AND MAY BE REVERSED. IN EITHER CASE, ONLY ONE CHANNEL WILL BE OCCUPIED AT A TIME.
4. TEMPORARY AIDS TO NAVIGATION (E.G., LIGHTS) WILL BE COORDINATED WITH THE USCG.
5. SEE VESSEL BERTHING PLAN (DWG. GEN-9) FOR TYPICAL BARGE SIZES.
6. THIS ACTIVITY IS CONTAINED ENTIRELY WITHIN THE 100-YR FLOODPLAIN.
7. THIS WORK SHALL BE CONDUCTED IN THE UNCONFINED DREDGING WINDOW IN DECEMBER AND JANUARY.

ELEVATION TABLE

DESCRIPTION	CONTOUR	ELEVATION (NAVD88)	ELEVATION (MLLW)
100-YEAR FLOODPLAIN	100 YR	10.0/12.0	13.98/15.98
MAX. ELEVATION OF LAND CAPABLE OF SUPPORTING TIDAL VEGETATION	CJL+1	6.4	10.38
CT COASTAL JURISDICTION LINE	CJL	5.4	9.38
HIGH TIDE LINE	HTL	5.2	9.18
MEAN HIGH WATER LINE	MHW	3.35	7.33
MEAN LOW WATER LINE	MLW	-3.72	0.26
MEAN LOWER LOW WATER LINE	MLLW	-3.98	0

SCALE:
SCALE IN FEET
0 30 60
SCALE 1"=60'

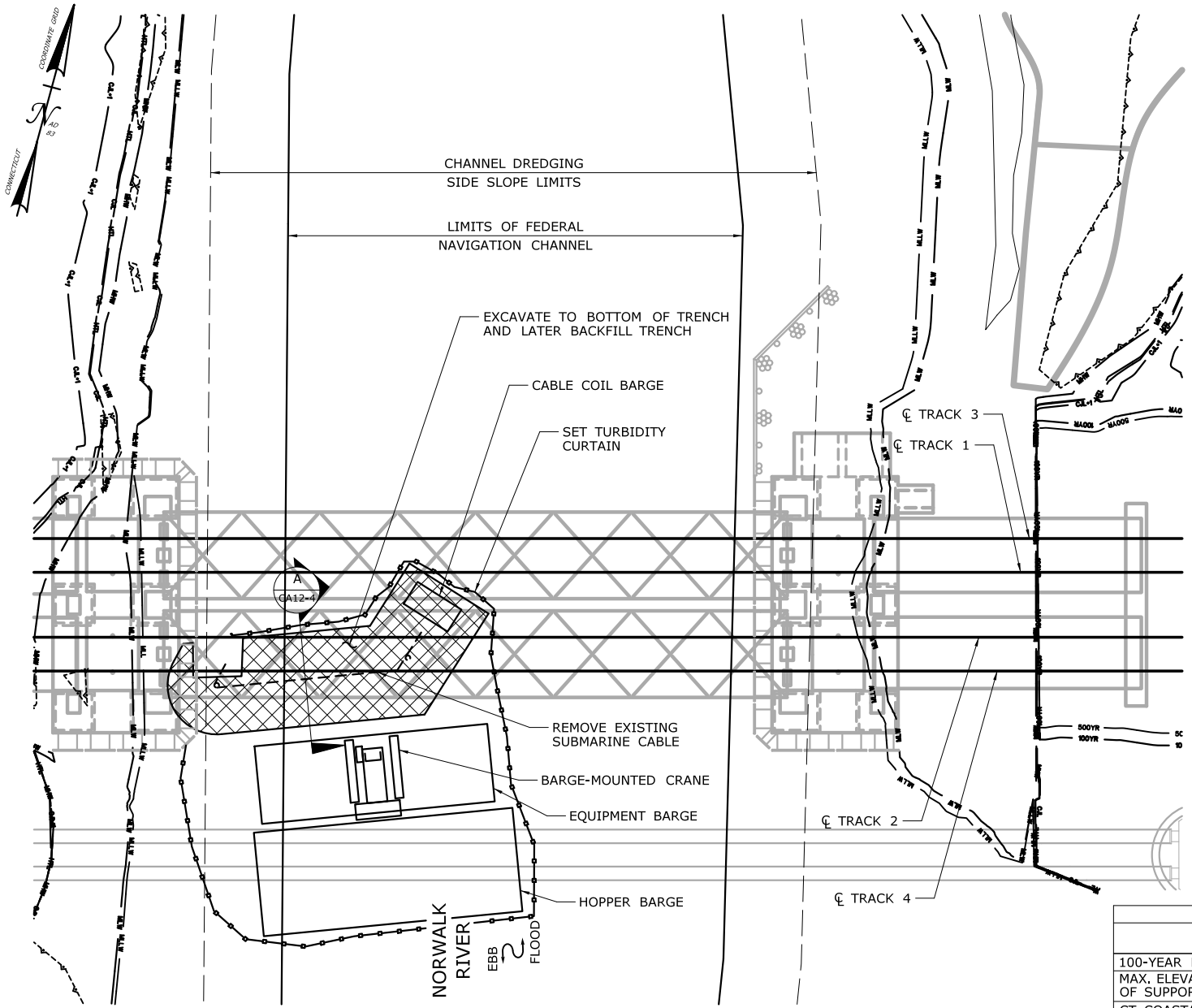
DRAWN: T. ADINOLFI
CHECKED: V. ROBBINS
APPROVED: C. BROWN

SIGNATURE BLOCK:

STATE OF CONNECTICUT
DEPARTMENT OF TRANSPORTATION

PROJECT TITLE:
WALK BRIDGE REPLACEMENT OVER THE NORWALK RIVER BRIDGE NO. 04288R/MP 41.5

TOWN: **NORWALK**
PROJECT NO.: **0301-0176**
DRAWING TITLE: **ACTIVITY 12 SUBMARINE CABLE REMOVAL (2 OF 4)**
DATE: **REV 02-23-21**
DRAWING NO.: **CA12-2**



PLAN

CONSTRUCTION SEQUENCE

THE SHEETS IN THIS SUBSET DESCRIBE THE SEQUENCE OF ACTIVITIES REQUIRED TO REMOVE THE EXISTING SUBMARINE CABLES WITH REFERENCES TO RELATED ACTIVITIES THROUGHOUT. FOR DETAILS OF RELATED ACTIVITIES, REFER TO THE SUBSETS NOTED IN PARENTHESES. WORK DEPICTED ON THIS SHEET IS IDENTIFIED WITH AN "X" IN THE TABLE.

WORK DESCRIPTION	
X	RESTRICT NAVIGATION TO EAST CHANNEL. MOBILIZE BARGES TO WEST CHANNEL.
X	SET TURBIDITY CURTAIN.
X	EXCAVATE TO BOTTOM OF TRENCH.
X	REMOVE EXISTING SUBMARINE CABLE.
X	BACKFILL TRENCH.

NOTES:

1. BARGE AND TURBIDITY CURTAIN PLACEMENT WILL BE ADJUSTED AS NEEDED FOR EXCAVATION ACCESS.
2. EXCAVATED MATERIAL AND DEWATERED WASTEWATERS SHALL BE MANAGED IN ACCORDANCE WITH THE ENVIRONMENTAL SPECIAL PROVISIONS AND CTDEEP REQUIREMENTS.
3. TEMPORARY AIDS TO NAVIGATION (E.G., LIGHTS) WILL BE COORDINATED WITH THE USCG.
4. SEE VESSEL BERTHING PLAN (DWG. GEN-9) FOR TYPICAL BARGE SIZES.
5. THIS ACTIVITY IS CONTAINED ENTIRELY WITHIN THE 100-YR FLOODPLAIN.
6. THIS WORK SHALL BE CONDUCTED IN THE UNCONFINED DREDGING WINDOW IN DECEMBER AND JANUARY.

ELEVATION TABLE			
DESCRIPTION	CONTOUR	ELEVATION (NAVD88)	ELEVATION (MLLW)
100-YEAR FLOODPLAIN	100 YR	10.0/12.0	13.98/15.98
MAX. ELEVATION OF LAND CAPABLE OF SUPPORTING TIDAL VEGETATION	CJL+1	6.4	10.38
CT COASTAL JURISDICTION LINE	CJL	5.4	9.38
HIGH TIDE LINE	HTL	5.2	9.18
MEAN HIGH WATER LINE	MHW	3.35	7.33
MEAN LOW WATER LINE	MLW	-3.72	0.26
MEAN LOWER LOW WATER LINE	MLLW	-3.98	0

SCALE:
SCALE IN FEET
0 30 60
SCALE 1"=60'

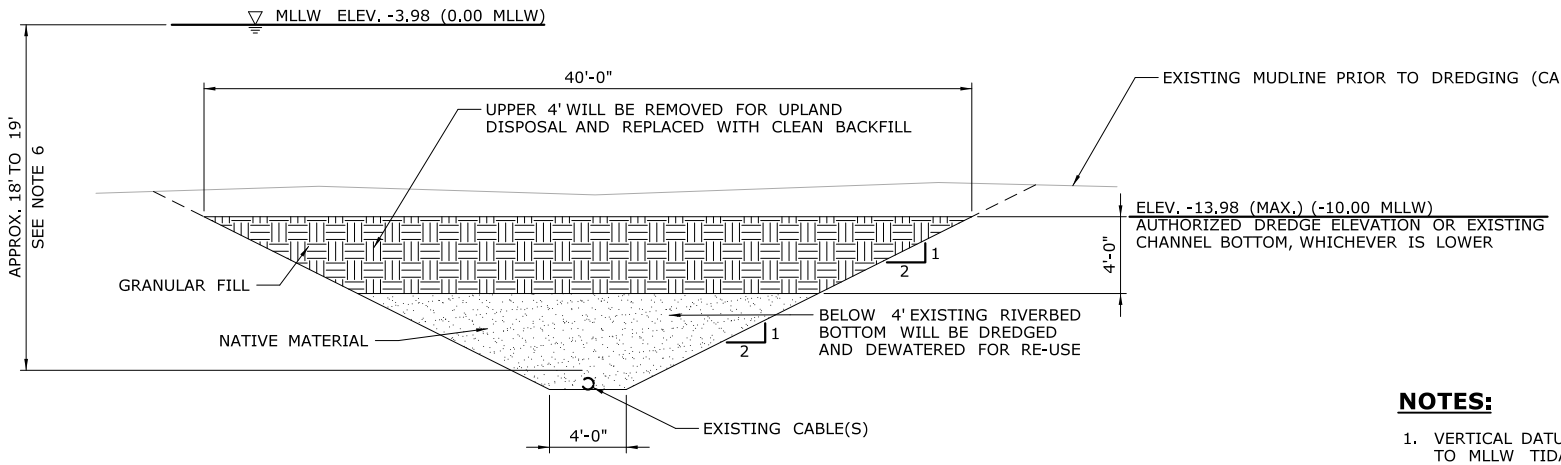
DRAWN: T. ADINOLFI
CHECKED: V. ROBBINS
APPROVED: C. BROWN

SIGNATURE BLOCK:

STATE OF CONNECTICUT
DEPARTMENT OF TRANSPORTATION

PROJECT TITLE:
WALK BRIDGE REPLACEMENT OVER THE NORWALK RIVER BRIDGE NO. 04288R/MP 41.5

TOWN: **NORWALK**
PROJECT NO.: **0301-0176**
DRAWING TITLE: **ACTIVITY 12 SUBMARINE CABLE REMOVAL (3 OF 4)**
DATE: **REV 02-23-21**
DRAWING NO.: **CA12-3**



SECTION A CA12-1 A CA12-2 A CA12-3

NOTES:

1. VERTICAL DATUM IS NAVD 88. ELEVATIONS RELATIVE TO MLLW TIDAL DATUM ARE SHOWN IN PARENTHESES.
2. BACKFILL WILL CONSIST OF SOILS CONTAINING NO MORE THAN 25% SAND BY WEIGHT AND AN ORGANIC CONTENT NO LESS THAN 25% AND NO MORE THAN 40% BY WEIGHT.
3. UPPER 4' OF EXCAVATED MATERIAL TO BE TREATED AS CONTAMINATED AND DISPOSED OF AT AN APPROVED OFF-SITE LOCATION, REGARDLESS OF WHETHER DREDGING (SEE ACTIVITY 17) HAS OCCURRED AT THE EXCAVATION.
4. UPPER 4' OF EXCAVATED MATERIAL ALONG THE CP243 CABLE ROUTE WILL HAVE BEEN RECENTLY PLACED AND MAY BE TESTED FOR CONTAMINATION TO DETERMINE SUITABILITY FOR RE-USE AS BACKFILL.
5. IF MATERIAL BELOW 4' IS FOUND TO BE CONTAMINATED OR OTHERWISE DETERMINED UNSUITABLE FOR RE-USE, IT WILL BE REPLACED WITH CLEAN BACKFILL.
6. EXISTING CABLE DEPTH BELOW RIVER BOTTOM VARIES. AVAILABLE AS-BUILT INFORMATION INDICATES CABLE DEPTHS APPROXIMATELY 8' TO 9' BELOW THE AUTHORIZED DREDGE ELEVATION.
7. TRENCH DIMENSIONS SHOWN ARE BASED ON ASSUMED CABLE DEPTHS AND MAY VARY WITH ACTUALLY FIELD CONDITIONS.
8. THIS ACTIVITY IS CONTAINED ENTIRELY WITHIN THE 100-YR FLOODPLAIN.

ELEVATION TABLE

DESCRIPTION	CONTOUR	ELEVATION (NAVD88)	ELEVATION (MLLW)
100-YEAR FLOODPLAIN	100 YR	10.0/12.0	13.98/15.98
MAX. ELEVATION OF LAND CAPABLE OF SUPPORTING TIDAL VEGETATION	CJL+1	6.4	10.38
CT COASTAL JURISDICTION LINE	CJL	5.4	9.38
HIGH TIDE LINE	HTL	5.2	9.18
MEAN HIGH WATER LINE	MHW	3.35	7.33
MEAN LOW WATER LINE	MLW	-3.72	0.26
MEAN LOWER LOW WATER LINE	MLLW	-3.98	0

SCALE: SCALE IN FEET 0 5 10 SCALE 1"=10'

DRAWN: T. ADINOLFI

CHECKED: V. ROBBINS

APPROVED: C. BROWN

SIGNATURE BLOCK:

STATE OF CONNECTICUT
DEPARTMENT OF TRANSPORTATION

PROJECT TITLE: **WALK BRIDGE REPLACEMENT OVER THE NORWALK RIVER BRIDGE NO. 04288R/MP 41.5**

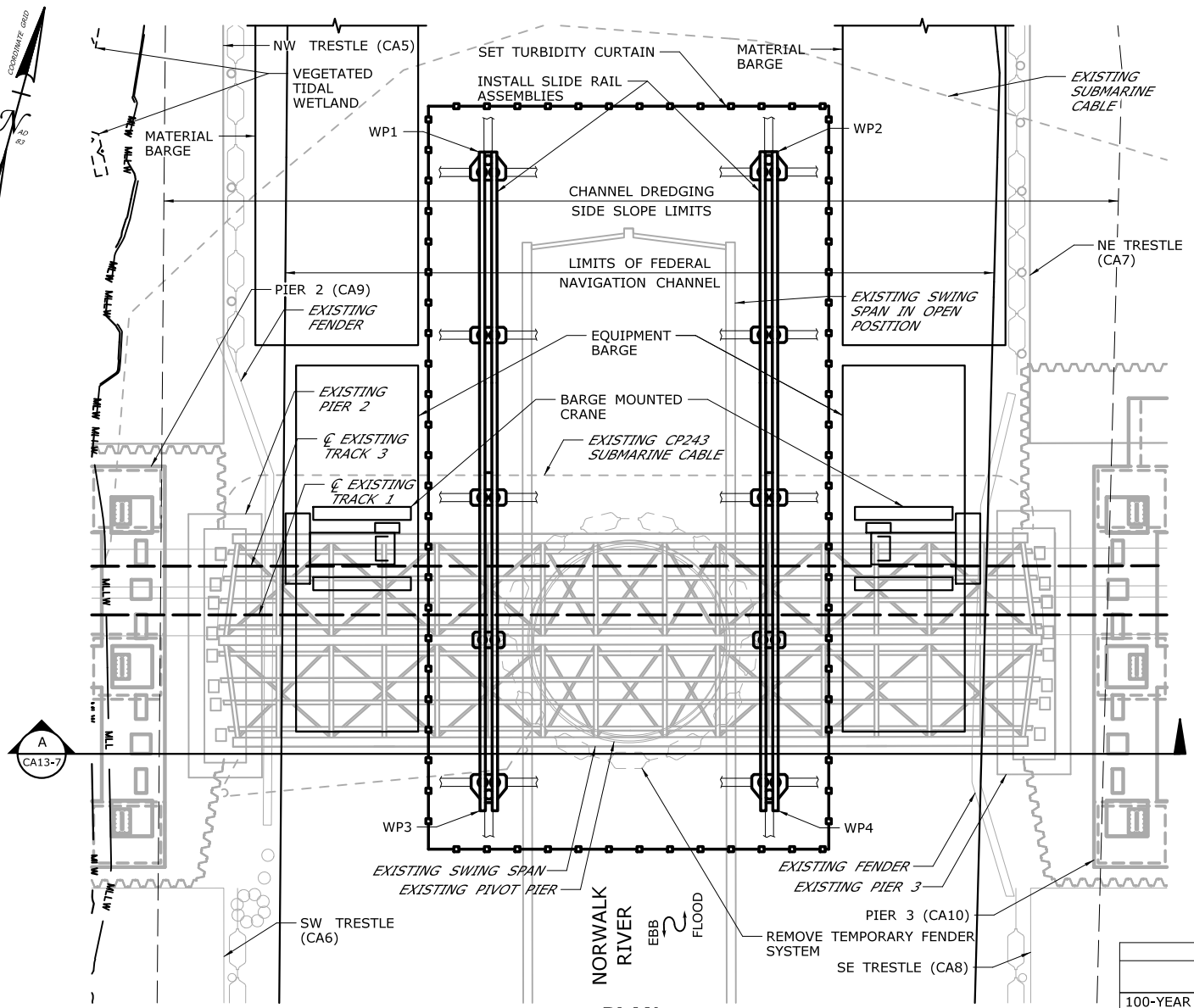
TOWN: **NORWALK**

PROJECT NO.: **0301-0176**

DRAWING TITLE: **ACTIVITY 12 SUBMARINE CABLE REMOVAL (4 OF 4)**

DATE: **REV 7-31-20**

DRAWING NO.: **CA12-4**



PLAN

WORKING POINT	NORTHING	EASTING
WP1	598,142	816,574
WP2	598,162	816,644
WP3	597,986	816,616
WP4	598,005	816,687

CONSTRUCTION SEQUENCE

THE SHEETS IN THIS SUBSET DESCRIBE THE SEQUENCE OF ACTIVITIES REQUIRED TO REMOVE THE EXISTING SWING SPAN WITH REFERENCES TO RELATED ACTIVITIES THROUGHOUT. FOR DETAILS OF RELATED ACTIVITIES, REFER TO THE SUBSETS NOTED IN PARENTHESES. WORK DEPICTED ON THIS SHEET IS IDENTIFIED WITH AN "X" IN THE TABLE.

	WORK DESCRIPTION
X	CLOSE BOTH CHANNELS TO NAVIGATION AND REMOVE THE TEMPORARY FENDER SYSTEM AT THE PIVOT PIER.
X	SET TURBIDITY CURTAIN AND INSTALL SLIDE RAIL ASSEMBLIES BENEATH EXISTING SWING SPAN.
	INITIATE FOUR-TRACK OUTAGE. JACK UP SWING SPAN, INSTALL ROLLERS AND LATERAL JACKING SYSTEM, AND SLIDE SWING SPAN TO THE NORTH.
	DISASSEMBLE ENDS OF THE SWING SPAN FROM THE NW AND NE TEMPORARY TRESTLES.
	TRANSFER CENTER PORTION OF THE SWING SPAN ONTO A BARGE AND FLOAT TO ANOTHER LOCATION FOR DISASSEMBLY.
	SET TURBIDITY CURTAIN. REMOVE SOUTH HALF OF SLIDE RAIL ASSEMBLIES.
	REMOVE REMAINDER OF SLIDE RAIL ASSEMBLIES AND TURBIDITY CURTAIN.
	RE-OPEN CHANNEL TO NAVIGATION.

NOTES:

1. INSTALLATION OF PILES AND SLIDE RAILS UNDER THE SWING SPAN WILL BE PERFORMED WITH THE SWING SPAN IN THE OPEN POSITION.
2. SEE VESSEL BERTHING PLAN (DWG. GEN-9) FOR TYPICAL BARGE SIZES.
3. THIS ACTIVITY WILL BE PERFORMED DURING A FULL CHANNEL OUTAGE SCHEDULED TO BEGIN PRIOR TO, AND EXTEND BEYOND, THE SOUTH LIFT SPAN INSTALLATION (ACTIVITY 18). START AND DURATION OF THE CHANNEL OUTAGE WILL BE COORDINATED IN ADVANCE WITH THE USCG.
4. SLIDE RAIL ASSEMBLY PILES AND SPUD PILES ARE ANTICIPATED TO BE 36" (MAX.) DIAMETER PIPE PILES.

ELEVATION TABLE			
DESCRIPTION	CONTOUR	ELEVATION (NAVD88)	ELEVATION (MLLW)
100-YEAR FLOODPLAIN	100 YR	10.0/12.0	13.98/15.98
MAX. ELEVATION OF LAND CAPABLE OF SUPPORTING TIDAL VEGETATION	CJL+1	6.4	10.38
CT COASTAL JURISDICTION LINE	CJL	5.4	9.38
HIGH TIDE LINE	HTL	5.2	9.18
MEAN HIGH WATER LINE	MHW	3.35	7.33
MEAN LOW WATER LINE	MLW	-3.72	0.26
MEAN LOWER LOW WATER LINE	MLLW	-3.98	0

SCALE:
SCALE IN FEET
0 20 40
SCALE 1"=40'

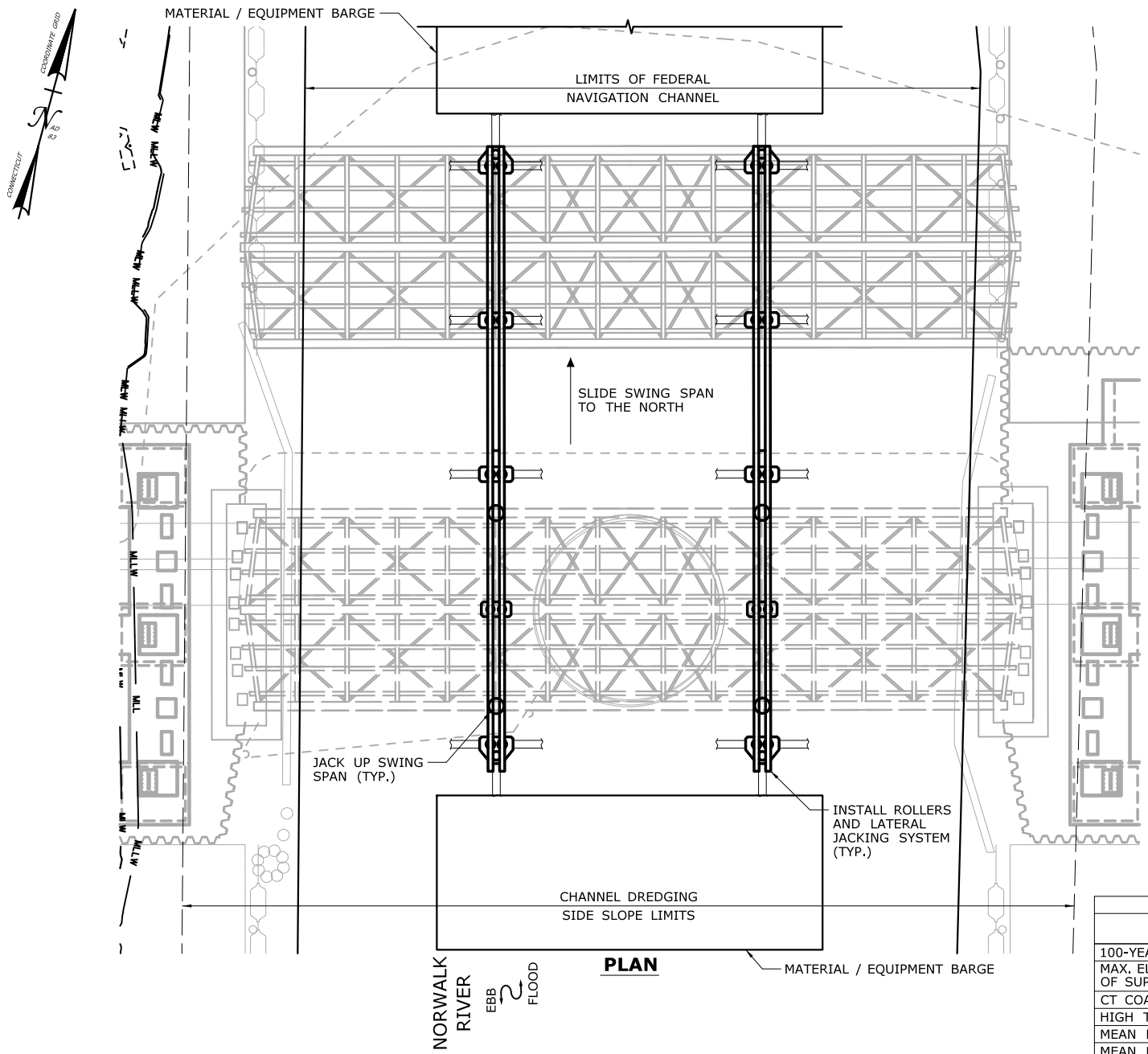
DRAWN: T. ADINOLFI
CHECKED: V. ROBBINS
APPROVED: C. BROWN

SIGNATURE BLOCK:

STATE OF CONNECTICUT
DEPARTMENT OF TRANSPORTATION

PROJECT TITLE:
WALK BRIDGE REPLACEMENT OVER THE NORWALK RIVER BRIDGE NO. 04288R/MP 41.5

TOWN: **NORWALK**
PROJECT NO.: **0301-0176**
DRAWING TITLE: **ACTIVITY 13 SWING SPAN REMOVAL (SHEET 1 OF 7)**
DATE: **REV 7-31-20**
DRAWING NO.: **CA13-1**



PLAN

CONSTRUCTION SEQUENCE

THE SHEETS IN THIS SUBSET DESCRIBE THE SEQUENCE OF ACTIVITIES REQUIRED TO REMOVE THE EXISTING SWING SPAN WITH REFERENCES TO RELATED ACTIVITIES THROUGHOUT. FOR DETAILS OF RELATED ACTIVITIES, REFER TO THE SUBSETS NOTED IN PARENTHESES. WORK DEPICTED ON THIS SHEET IS IDENTIFIED WITH AN "X" IN THE TABLE.

	WORK DESCRIPTION
	CLOSE BOTH CHANNELS TO NAVIGATION AND REMOVE THE TEMPORARY FENDER SYSTEM AT THE PIVOT PIER.
	SET TURBIDITY CURTAIN AND INSTALL SLIDE RAIL ASSEMBLIES BENEATH EXISTING SWING SPAN.
X	INITIATE FOUR-TRACK OUTAGE. JACK UP SWING SPAN, INSTALL ROLLERS AND LATERAL JACKING SYSTEM, AND SLIDE SWING SPAN TO THE NORTH.
	DISASSEMBLE ENDS OF THE SWING SPAN FROM THE NW AND NE TEMPORARY TRESTLES.
	TRANSFER CENTER PORTION OF THE SWING SPAN ONTO A BARGE AND FLOAT TO ANOTHER LOCATION FOR DISASSEMBLY.
	SET TURBIDITY CURTAIN. REMOVE SOUTH HALF OF SLIDE RAIL ASSEMBLIES.
	REMOVE REMAINDER OF SLIDE RAIL ASSEMBLIES AND TURBIDITY CURTAIN.
	RE-OPEN CHANNEL TO NAVIGATION.

NOTES:

1. SEE VESSEL BERTHING PLAN (DWG. GEN-9) FOR TYPICAL BARGE SIZES.
2. EQUIPMENT AND MATERIAL BARGES WILL BE MOORED TO TRESTLE MOORING PILES OR SPUD PILES (36" MAX.) IN THE RIVER.

ELEVATION TABLE			
DESCRIPTION	CONTOUR	ELEVATION (NAVD88)	ELEVATION (MLLW)
100-YEAR FLOODPLAIN	100 YR	10.0/12.0	13.98/15.98
MAX. ELEVATION OF LAND CAPABLE OF SUPPORTING TIDAL VEGETATION	CJL+1	6.4	10.38
CT COASTAL JURISDICTION LINE	CJL	5.4	9.38
HIGH TIDE LINE	HTL	5.2	9.18
MEAN HIGH WATER LINE	MHW	3.35	7.33
MEAN LOW WATER LINE	MLW	-3.72	0.26
MEAN LOWER LOW WATER LINE	MLLW	-3.98	0

SCALE:
SCALE IN FEET
0 20 40
SCALE 1"=40'

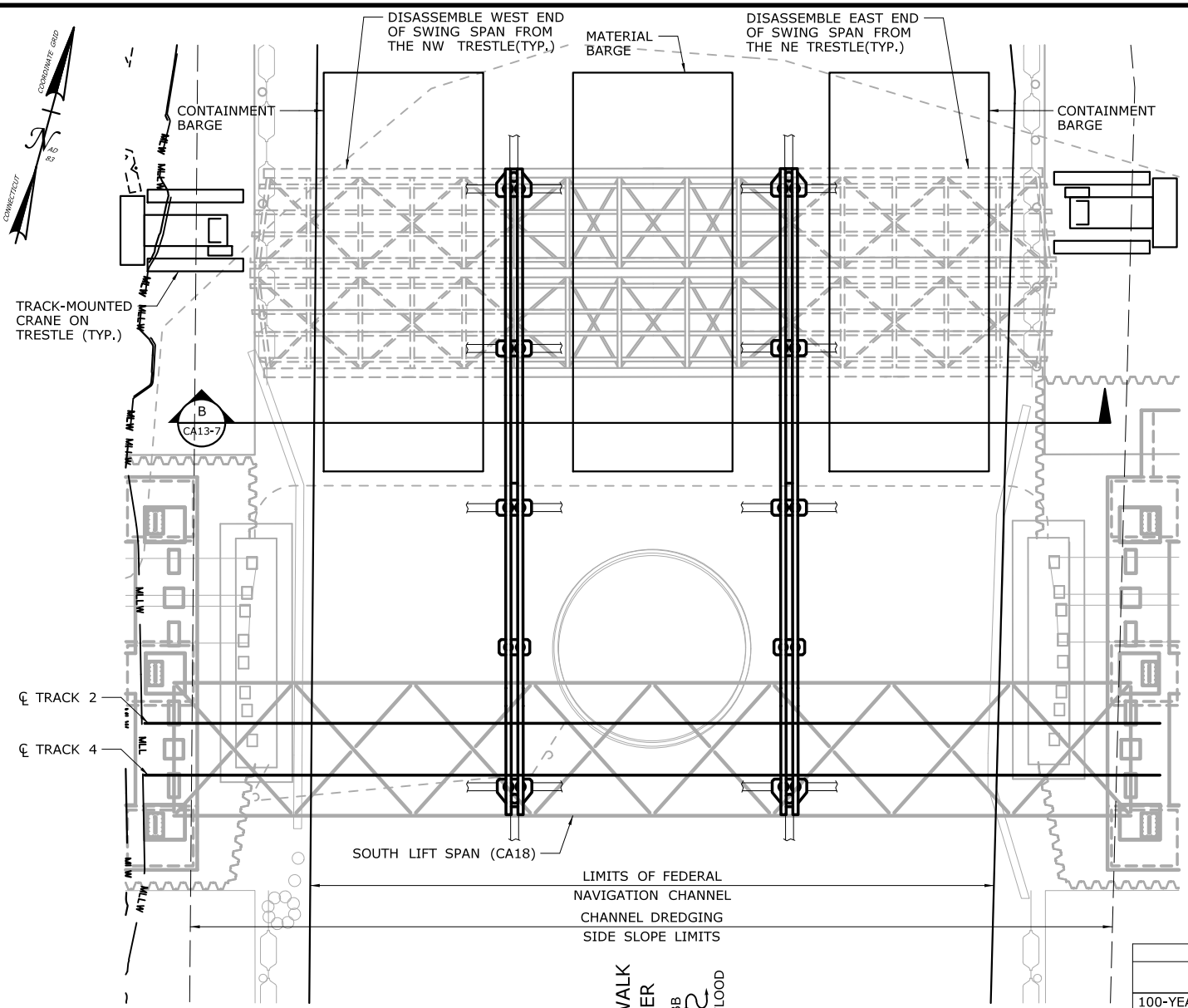
DRAWN: T. ADINOLFI
CHECKED: V. ROBBINS
APPROVED: C. BROWN

SIGNATURE BLOCK:

STATE OF CONNECTICUT
DEPARTMENT OF TRANSPORTATION

PROJECT TITLE:
WALK BRIDGE REPLACEMENT OVER THE NORWALK RIVER BRIDGE NO. 04288R/MP 41.5

TOWN: **NORWALK**
PROJECT NO.: **0301-0176**
DRAWING TITLE: **ACTIVITY 13 SWING SPAN REMOVAL (SHEET 2 OF 7)**
DATE: **REV 7-31-20**
DRAWING NO.: **CA13-2**



PLAN

CONSTRUCTION SEQUENCE

THE SHEETS IN THIS SUBSET DESCRIBE THE SEQUENCE OF ACTIVITIES REQUIRED TO REMOVE THE EXISTING SWING SPAN WITH REFERENCES TO RELATED ACTIVITIES THROUGHOUT. FOR DETAILS OF RELATED ACTIVITIES, REFER TO THE SUBSETS NOTED IN PARENTHESES. WORK DEPICTED ON THIS SHEET IS IDENTIFIED WITH AN "X" IN THE TABLE.

	WORK DESCRIPTION
	CLOSE BOTH CHANNELS TO NAVIGATION AND REMOVE THE TEMPORARY FENDER SYSTEM AT THE PIVOT PIER.
	SET TURBIDITY CURTAIN AND INSTALL SLIDE RAIL ASSEMBLIES BENEATH EXISTING SWING SPAN.
	INITIATE FOUR-TRACK OUTAGE. JACK UP SWING SPAN, INSTALL ROLLERS AND LATERAL JACKING SYSTEM, AND SLIDE SWING SPAN TO THE NORTH.
X	DISASSEMBLE ENDS OF THE SWING SPAN FROM THE NW AND NE TEMPORARY TRESTLES.
	TRANSFER CENTER PORTION OF THE SWING SPAN ONTO A BARGE AND FLOAT TO ANOTHER LOCATION FOR DISASSEMBLY.
	SET TURBIDITY CURTAIN. REMOVE SOUTH HALF OF SLIDE RAIL ASSEMBLIES.
	REMOVE REMAINDER OF SLIDE RAIL ASSEMBLIES AND TURBIDITY CURTAIN.
	RE-OPEN CHANNEL TO NAVIGATION.

NOTES:

1. SEE VESSEL BERTHING PLAN (DWG. GEN-9) FOR TYPICAL BARGE SIZES.
2. EQUIPMENT AND MATERIAL BARGES WILL BE MOORED TO TRESTLE MOORING PILES OR SPUD PILES (36" MAX.) IN THE RIVER.
3. CONTAINMENT BARGES WILL BE USED TO PREVENT EQUIPMENT, MATERIALS DEBRIS AND OTHER PRODUCTS OF SWING SPAN DISASSEMBLY FROM FALLING INTO THE WATER.

ELEVATION TABLE			
DESCRIPTION	CONTOUR	ELEVATION (NAVD88)	ELEVATION (MLLW)
100-YEAR FLOODPLAIN	100 YR	10.0/12.0	13.98/15.98
MAX. ELEVATION OF LAND CAPABLE OF SUPPORTING TIDAL VEGETATION	CJL+1	6.4	10.38
CT COASTAL JURISDICTION LINE	CJL	5.4	9.38
HIGH TIDE LINE	HTL	5.2	9.18
MEAN HIGH WATER LINE	MHW	3.35	7.33
MEAN LOW WATER LINE	MLW	-3.72	0.26
MEAN LOWER LOW WATER LINE	MLLW	-3.98	0

SCALE:
SCALE IN FEET
0 20 40
SCALE 1"=40'

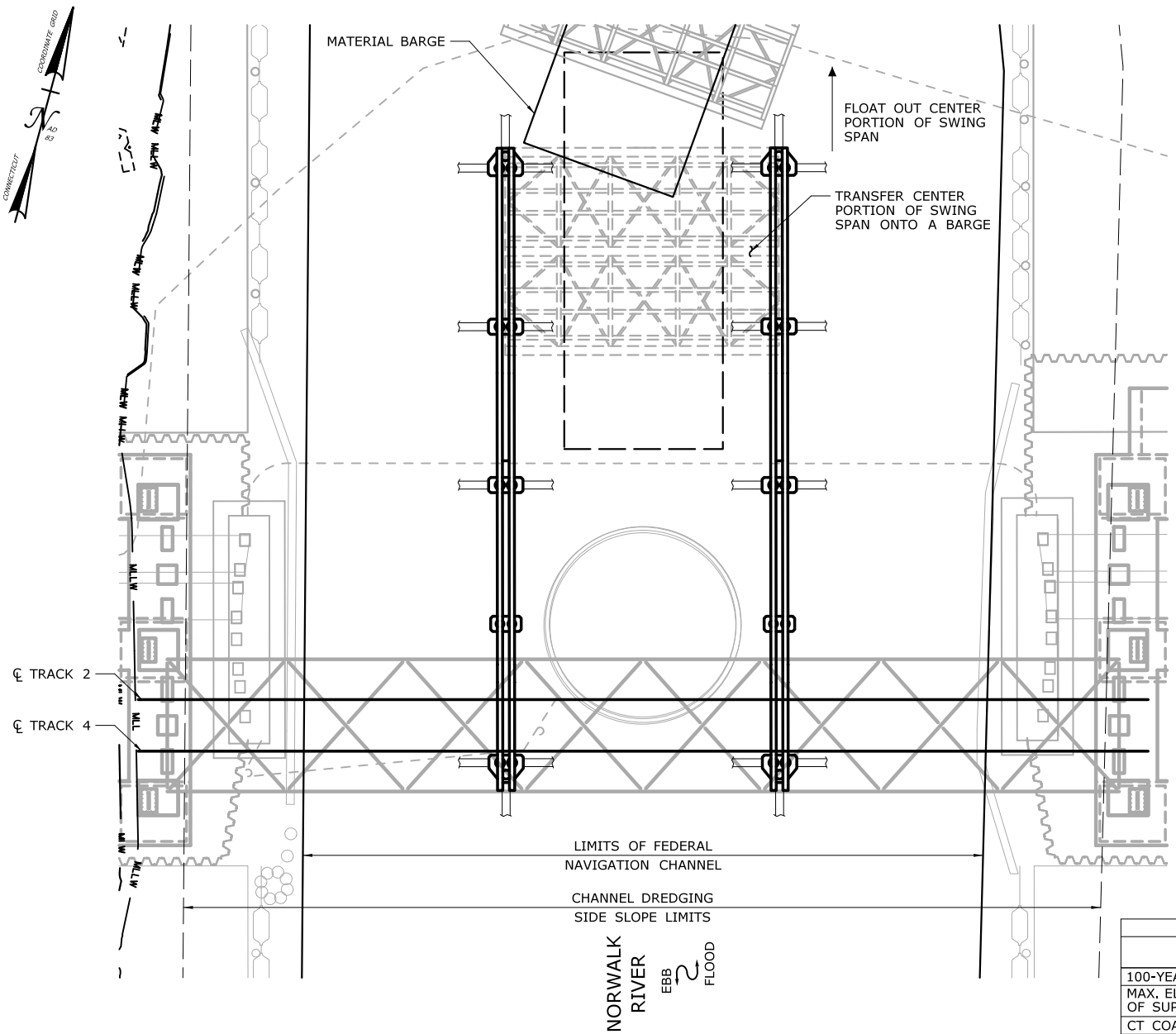
DRAWN: T. ADINOLFI
CHECKED: V. ROBBINS
APPROVED: C. BROWN

SIGNATURE BLOCK:

STATE OF CONNECTICUT
DEPARTMENT OF TRANSPORTATION

PROJECT TITLE:
WALK BRIDGE REPLACEMENT OVER THE NORWALK RIVER BRIDGE NO. 04288R/MP 41.5

TOWN: **NORWALK**
PROJECT NO.: **0301-0176**
DRAWING TITLE: **ACTIVITY 13 SWING SPAN REMOVAL (SHEET 3 OF 7)**
DATE: **REV 7-31-20**
DRAWING NO.: **CA13-3**



PLAN

CONSTRUCTION SEQUENCE

THE SHEETS IN THIS SUBSET DESCRIBE THE SEQUENCE OF ACTIVITIES REQUIRED TO REMOVE THE EXISTING SWING SPAN WITH REFERENCES TO RELATED ACTIVITIES THROUGHOUT. FOR DETAILS OF RELATED ACTIVITIES, REFER TO THE SUBSETS NOTED IN PARENTHESES. WORK DEPICTED ON THIS SHEET IS IDENTIFIED WITH AN "X" IN THE TABLE.

	WORK DESCRIPTION
	CLOSE BOTH CHANNELS TO NAVIGATION AND REMOVE THE TEMPORARY FENDER SYSTEM AT THE PIVOT PIER.
	SET TURBIDITY CURTAIN AND INSTALL SLIDE RAIL ASSEMBLIES BENEATH EXISTING SWING SPAN.
	INITIATE FOUR-TRACK OUTAGE. JACK UP SWING SPAN, INSTALL ROLLERS AND LATERAL JACKING SYSTEM, AND SLIDE SWING SPAN TO THE NORTH.
	DISASSEMBLE ENDS OF THE SWING SPAN FROM THE NW AND NE TEMPORARY TRESTLES.
X	TRANSFER CENTER PORTION OF THE SWING SPAN ONTO A BARGE AND FLOAT TO ANOTHER LOCATION FOR DISASSEMBLY.
	SET TURBIDITY CURTAIN. REMOVE SOUTH HALF OF SLIDE RAIL ASSEMBLIES.
	REMOVE REMAINDER OF SLIDE RAIL ASSEMBLIES AND TURBIDITY CURTAIN.
	RE-OPEN CHANNEL TO NAVIGATION.

NOTES:

1. SEE VESSEL BERTHING PLAN (DWG. GEN-9) FOR TYPICAL BARGE SIZES.
2. EQUIPMENT AND MATERIAL BARGES WILL BE MOORED TO TRESTLE MOORING PILES OR SPUD PILES (36" MAX.) IN THE RIVER.

ELEVATION TABLE

DESCRIPTION	CONTOUR	ELEVATION (NAVD88)	ELEVATION (MLLW)
100-YEAR FLOODPLAIN	100 YR	10.0/12.0	13.98/15.98
MAX. ELEVATION OF LAND CAPABLE OF SUPPORTING TIDAL VEGETATION	CJL+1	6.4	10.38
CT COASTAL JURISDICTION LINE	CJL	5.4	9.38
HIGH TIDE LINE	HTL	5.2	9.18
MEAN HIGH WATER LINE	MHW	3.35	7.33
MEAN LOW WATER LINE	MLW	-3.72	0.26
MEAN LOWER LOW WATER LINE	MLLW	-3.98	0

SCALE:
SCALE IN FEET
0 20 40
SCALE 1"=40'

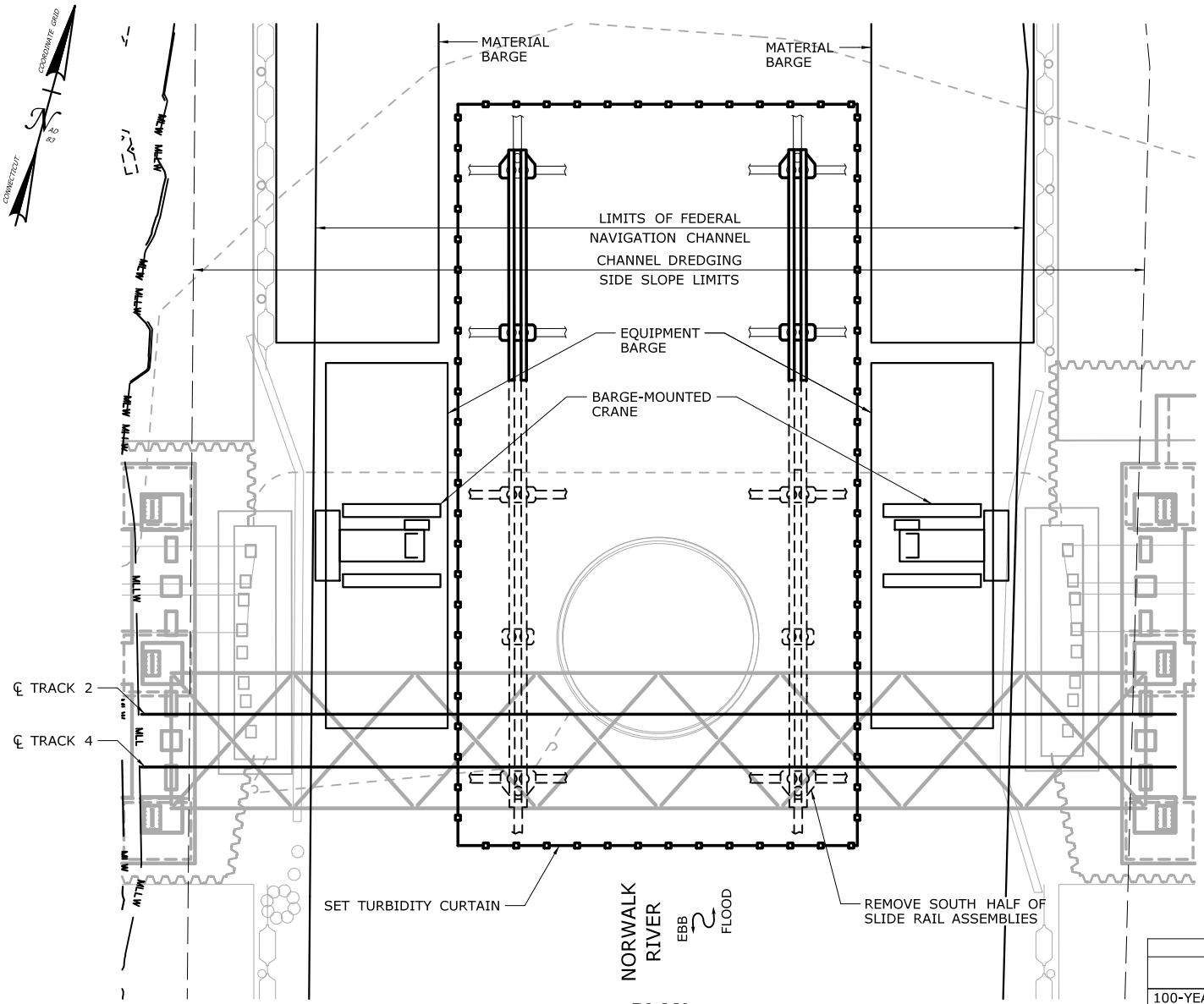
DRAWN: T. ADINOLFI
CHECKED: V. ROBBINS
APPROVED: C. BROWN

SIGNATURE BLOCK:

STATE OF CONNECTICUT
DEPARTMENT OF TRANSPORTATION

PROJECT TITLE:
WALK BRIDGE REPLACEMENT OVER THE NORWALK RIVER BRIDGE NO. 04288R/MP 41.5

TOWN: **NORWALK**
PROJECT NO.: **0301-0176**
DRAWING TITLE: **ACTIVITY 13 SWING SPAN REMOVAL (SHEET 4 OF 7)**
DATE: **REV 7-31-20**
DRAWING NO.: **CA13-4**



PLAN

CONSTRUCTION SEQUENCE

THE SHEETS IN THIS SUBSET DESCRIBE THE SEQUENCE OF ACTIVITIES REQUIRED TO REMOVE THE EXISTING SWING SPAN WITH REFERENCES TO RELATED ACTIVITIES THROUGHOUT. FOR DETAILS OF RELATED ACTIVITIES, REFER TO THE SUBSETS NOTED IN PARENTHESES. WORK DEPICTED ON THIS SHEET IS IDENTIFIED WITH AN "X" IN THE TABLE.

	WORK DESCRIPTION
	CLOSE BOTH CHANNELS TO NAVIGATION AND REMOVE THE TEMPORARY FENDER SYSTEM AT THE PIVOT PIER.
	SET TURBIDITY CURTAIN AND INSTALL SLIDE RAIL ASSEMBLIES BENEATH EXISTING SWING SPAN.
	INITIATE FOUR-TRACK OUTAGE. JACK UP SWING SPAN, INSTALL ROLLERS AND LATERAL JACKING SYSTEM, AND SLIDE SWING SPAN TO THE NORTH.
	DISASSEMBLE ENDS OF THE SWING SPAN FROM THE NW AND NE TEMPORARY TRESTLES.
	TRANSFER CENTER PORTION OF THE SWING SPAN ONTO A BARGE AND FLOAT TO ANOTHER LOCATION FOR DISASSEMBLY.
X	SET TURBIDITY CURTAIN. REMOVE SOUTH HALF OF SLIDE RAIL ASSEMBLIES.
	REMOVE REMAINDER OF SLIDE RAIL ASSEMBLIES AND TURBIDITY CURTAIN.
	RE-OPEN CHANNEL TO NAVIGATION.

NOTES:

1. SEE VESSEL BERTHING PLAN (DWG. GEN-9) FOR TYPICAL BARGE SIZES.
2. BARGES SHOWN DEPICT REPRESENTATIVE LOCATIONS IN THE NAVIGATION CHANNELS THAT WILL BE UTILIZED AS NEEDED THROUGHOUT THE COURSE OF THE WORK.
3. EQUIPMENT AND MATERIAL BARGES WILL BE MOORED TO TRESTLE MOORING PILES OR SPUD PILES (36" MAX.) IN THE RIVER.
4. THE LIFT SPAN (ACTIVITY 18) WILL BE RAISED AS NEEDED TO REMOVE SECTIONS OF THE SLIDE RAIL ASSEMBLIES BENEATH THE BRIDGE.

ELEVATION TABLE

DESCRIPTION	CONTOUR	ELEVATION (NAVD88)	ELEVATION (MLLW)
100-YEAR FLOODPLAIN	100 YR	10.0/12.0	13.98/15.98
MAX. ELEVATION OF LAND CAPABLE OF SUPPORTING TIDAL VEGETATION	CJL+1	6.4	10.38
CT COASTAL JURISDICTION LINE	CJL	5.4	9.38
HIGH TIDE LINE	HTL	5.2	9.18
MEAN HIGH WATER LINE	MHW	3.35	7.33
MEAN LOW WATER LINE	MLW	-3.72	0.26
MEAN LOWER LOW WATER LINE	MLLW	-3.98	0

SCALE:
SCALE IN FEET
0 20 40
SCALE 1"=40'

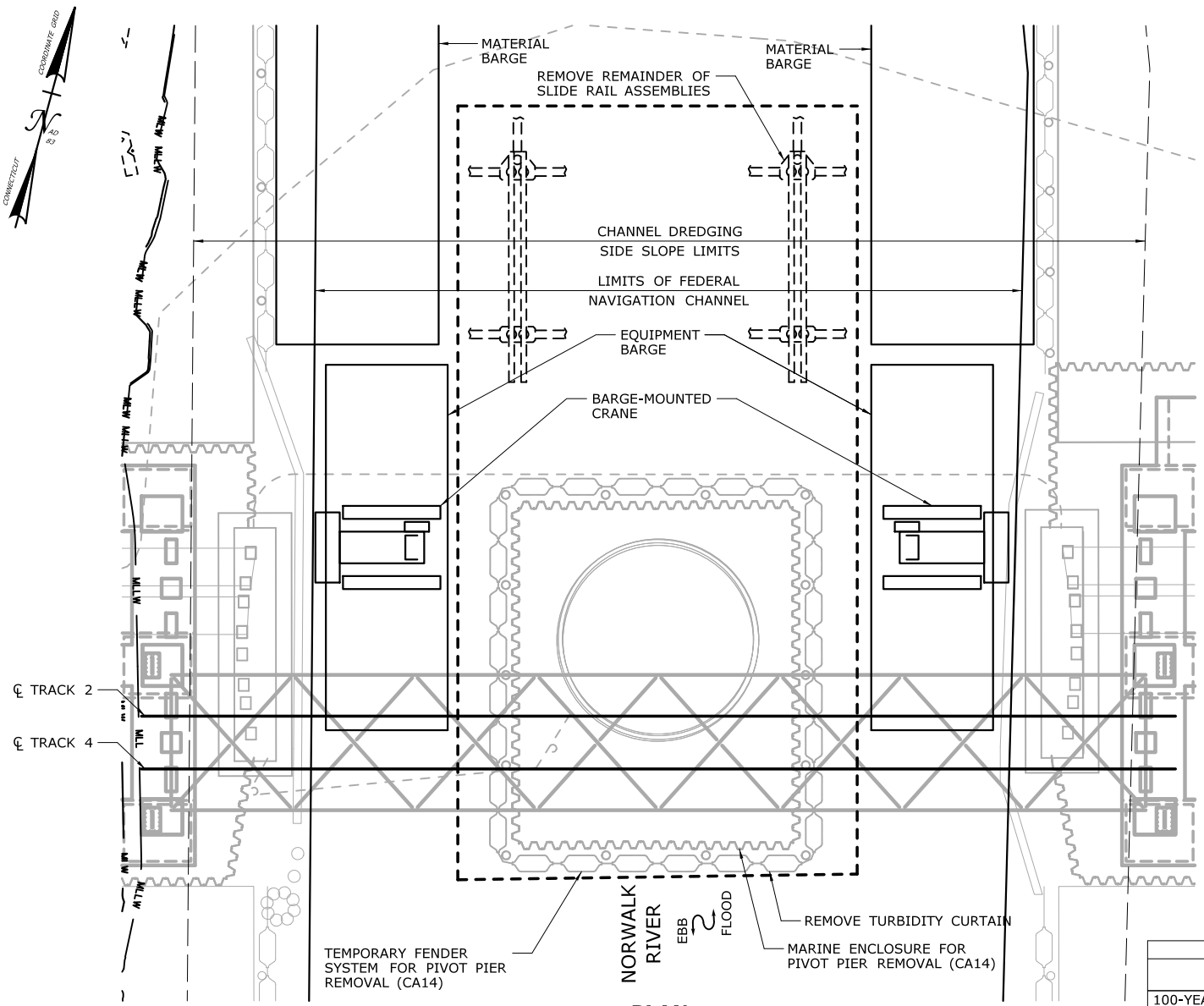
DRAWN: T. ADINOLFI
CHECKED: V. ROBBINS
APPROVED: C. BROWN

SIGNATURE BLOCK:

STATE OF CONNECTICUT
DEPARTMENT OF TRANSPORTATION

PROJECT TITLE:
WALK BRIDGE REPLACEMENT OVER THE NORWALK RIVER BRIDGE NO. 04288R/MP 41.5

TOWN: **NORWALK**
PROJECT NO.: **0301-0176**
DRAWING TITLE: **ACTIVITY 13 SWING SPAN REMOVAL (SHEET 5 OF 7)**
DATE: **REV 7-31-20**
DRAWING NO.: **CA13-5**



PLAN

CONSTRUCTION SEQUENCE

THE SHEETS IN THIS SUBSET DESCRIBE THE SEQUENCE OF ACTIVITIES REQUIRED TO REMOVE THE EXISTING SWING SPAN WITH REFERENCES TO RELATED ACTIVITIES THROUGHOUT. FOR DETAILS OF RELATED ACTIVITIES, REFER TO THE SUBSETS NOTED IN PARENTHESES. WORK DEPICTED ON THIS SHEET IS IDENTIFIED WITH AN "X" IN THE TABLE.

	WORK DESCRIPTION
	CLOSE BOTH CHANNELS TO NAVIGATION AND REMOVE THE TEMPORARY FENDER SYSTEM AT THE PIVOT PIER.
	SET TURBIDITY CURTAIN AND INSTALL SLIDE RAIL ASSEMBLIES BENEATH EXISTING SWING SPAN.
	INITIATE FOUR-TRACK OUTAGE. JACK UP SWING SPAN, INSTALL ROLLERS AND LATERAL JACKING SYSTEM, AND SLIDE SWING SPAN TO THE NORTH.
	DISASSEMBLE ENDS OF THE SWING SPAN FROM THE NW AND NE TEMPORARY TRESTLES.
	TRANSFER CENTER PORTION OF THE SWING SPAN ONTO A BARGE AND FLOAT TO ANOTHER LOCATION FOR DISASSEMBLY.
	SET TURBIDITY CURTAIN. REMOVE SOUTH HALF OF SLIDE RAIL ASSEMBLIES.
X	REMOVE REMAINDER OF SLIDE RAIL ASSEMBLIES AND TURBIDITY CURTAIN.
X	RE-OPEN CHANNEL TO NAVIGATION.

NOTES:

1. SEE VESSEL BERTHING PLAN (DWG. GEN-9) FOR TYPICAL BARGE SIZES.
2. BARGES SHOWN DEPICT REPRESENTATIVE LOCATIONS IN THE NAVIGATION CHANNELS THAT WILL BE UTILIZED AS NEEDED THROUGHOUT THE COURSE OF THE WORK.
3. EQUIPMENT AND MATERIAL BARGES WILL BE MOORED TO TRESTLE MOORING PILES OR SPUD PILES (36" MAX.) IN THE RIVER.

ELEVATION TABLE

DESCRIPTION	CONTOUR	ELEVATION (NAVD88)	ELEVATION (MLLW)
100-YEAR FLOODPLAIN	100 YR	10.0/12.0	13.98/15.98
MAX. ELEVATION OF LAND CAPABLE OF SUPPORTING TIDAL VEGETATION	CJL+1	6.4	10.38
CT COASTAL JURISDICTION LINE	CJL	5.4	9.38
HIGH TIDE LINE	HTL	5.2	9.18
MEAN HIGH WATER LINE	MHW	3.35	7.33
MEAN LOW WATER LINE	MLW	-3.72	0.26
MEAN LOWER LOW WATER LINE	MLLW	-3.98	0

SCALE:
SCALE IN FEET
0 20 40
SCALE 1"=40'

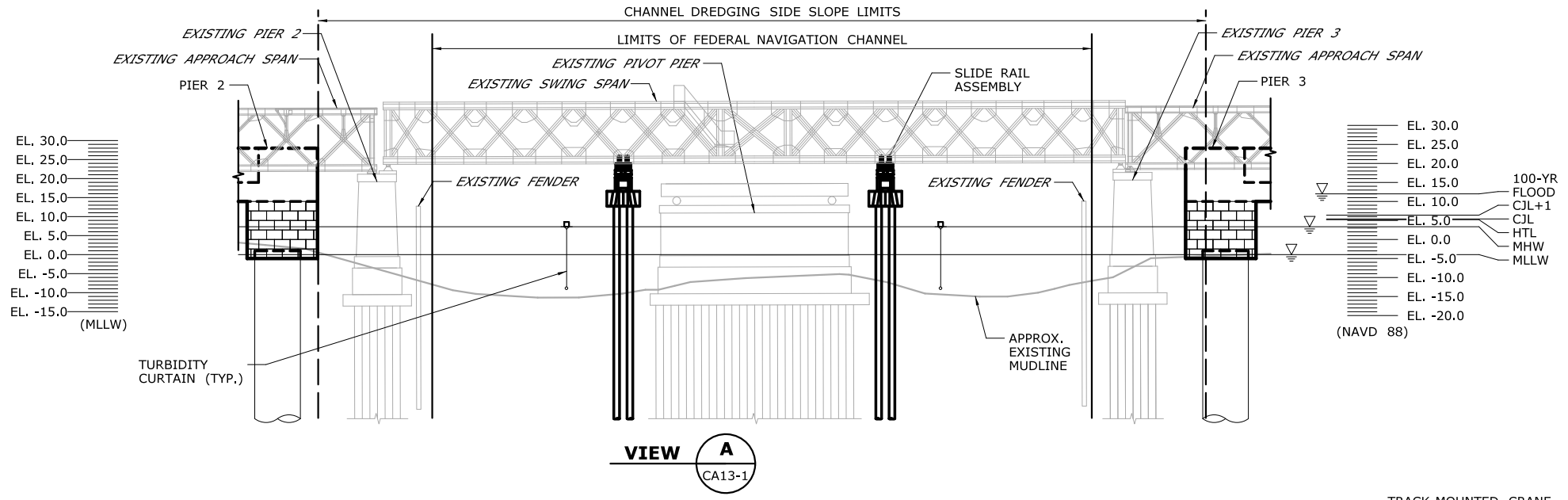
DRAWN: T. ADINOLFI
CHECKED: V. ROBBINS
APPROVED: C. BROWN

SIGNATURE BLOCK:

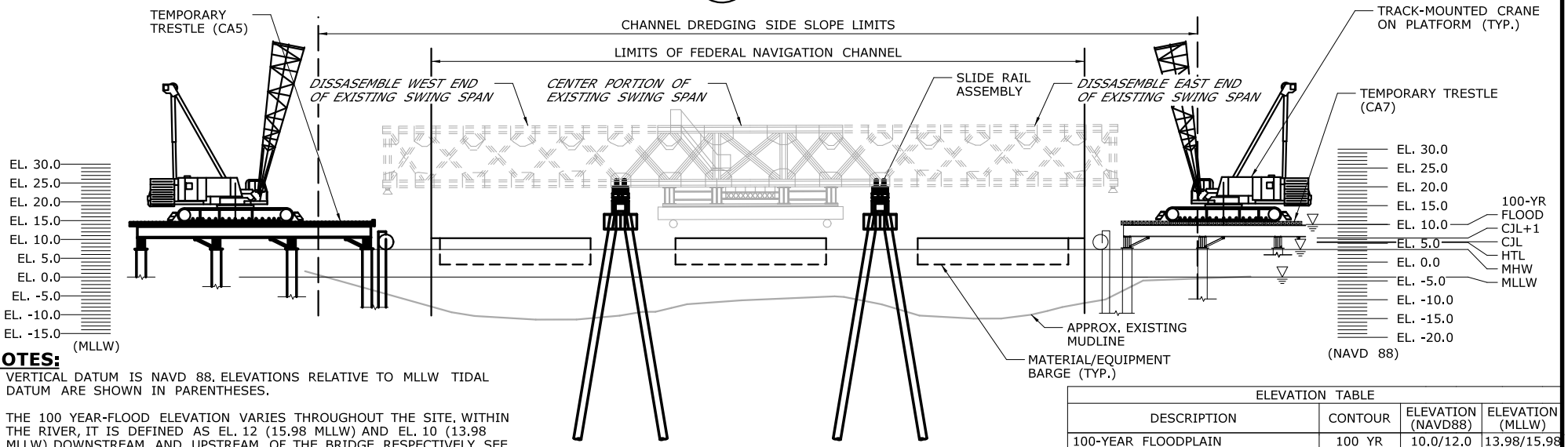
STATE OF CONNECTICUT
DEPARTMENT OF TRANSPORTATION

PROJECT TITLE:
WALK BRIDGE REPLACEMENT OVER THE NORWALK RIVER BRIDGE NO. 04288R/MP 41.5

TOWN: **NORWALK**
PROJECT NO.: **0301-0176**
DRAWING TITLE: **ACTIVITY 13 SWING SPAN REMOVAL (SHEET 6 OF 7)**
DATE: **REV 7-31-20**
DRAWING NO.: **CA13-6**



VIEW A — CA13-1



VIEW B — CA13-3

NOTES:

1. VERTICAL DATUM IS NAVD 88. ELEVATIONS RELATIVE TO MLLW TIDAL DATUM ARE SHOWN IN PARENTHESES.
2. THE 100 YEAR-FLOOD ELEVATION VARIES THROUGHOUT THE SITE. WITHIN THE RIVER, IT IS DEFINED AS EL. 12 (15.98 MLLW) AND EL. 10 (13.98 MLLW) DOWNSTREAM AND UPSTREAM OF THE BRIDGE, RESPECTIVELY. SEE FLOOD ZONE MAP (DWG. GEN-6) FOR ADDITIONAL INFORMATION.
3. SLIDE RAIL ASSEMBLY PILES WILL BE COMPLETELY REMOVED.
4. THE CHANNEL WILL BE CLOSED TO NAVIGATION THROUGHOUT THE DURATION OF THIS WORK.
5. FOR TRESTLE ELEVATIONS, SEE CA5 AND CA7.

ELEVATION TABLE			
DESCRIPTION	CONTOUR	ELEVATION (NAVD88)	ELEVATION (MLLW)
100-YEAR FLOODPLAIN	100 YR	10.0/12.0	13.98/15.98
MAX. ELEVATION OF LAND CAPABLE OF SUPPORTING TIDAL VEGETATION	CJL+1	6.4	10.38
CT COASTAL JURISDICTION LINE	CJL	5.4	9.38
HIGH TIDE LINE	HTL	5.2	9.18
MEAN HIGH WATER LINE	MHW	3.35	7.33
MEAN LOW WATER LINE	MLW	-3.72	0.26
MEAN LOWER LOW WATER LINE	MLLW	-3.98	0

SCALE: SCALE IN FEET 0 20 40 — SCALE 1"=40'

DRAWN: T. ADINOLFI
CHECKED: V. ROBBINS
APPROVED: C. BROWN

SIGNATURE BLOCK:

STATE OF CONNECTICUT
DEPARTMENT OF TRANSPORTATION

PROJECT TITLE:
WALK BRIDGE REPLACEMENT OVER THE NORWALK RIVER BRIDGE NO. 04288R/MP 41.5

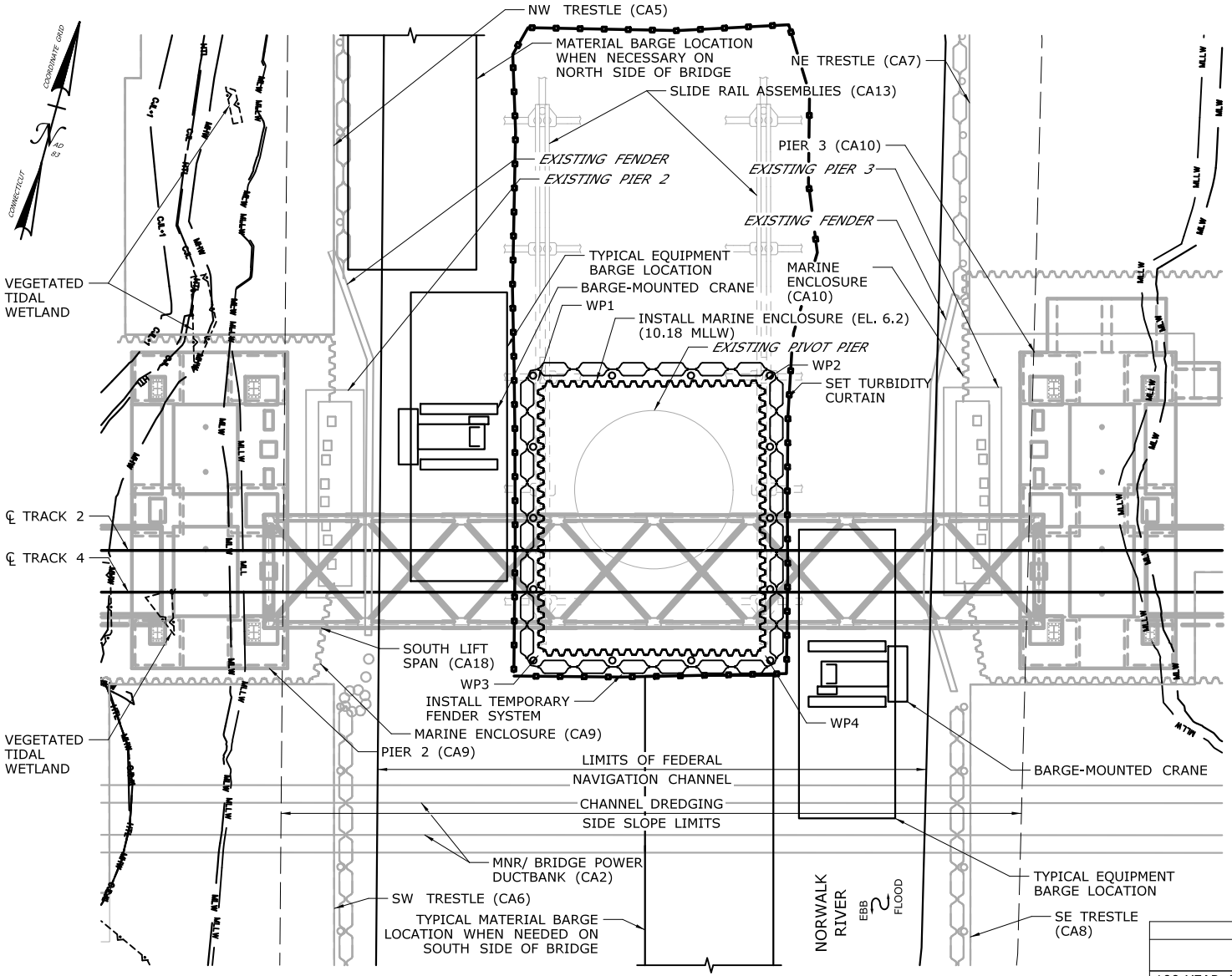
TOWN: **NORWALK**

DRAWING TITLE:
ACTIVITY 13 SWING SPAN REMOVAL (SHEET 7 OF 7)

PROJECT NO.: **0301-0176**

DATE: **REV 7-31-20**

DRAWING NO.: **CA13-7**



PLAN

WORKING POINT	NORTHING	EASTING
WP1	598,059	816,597
WP2	598,078	816,665
WP3	597,977	816,619
WP4	597,995	816,688

CONSTRUCTION SEQUENCE

THE SHEETS IN THIS SUBSET DESCRIBE THE SEQUENCE OF ACTIVITIES REQUIRED TO REMOVE THE PIERS WITH REFERENCES TO RELATED ACTIVITIES THROUGHOUT. FOR DETAILS OF RELATED ACTIVITIES, REFER TO THE SUBSETS NOTED IN PARENTHESES. WORK DEPICTED ON THIS SHEET IS IDENTIFIED WITH AN "X" IN THE TABLE.

	WORK DESCRIPTION
X	FOLLOWING REMOVAL OF THE SOUTH HALF OF THE SLIDE RAILS (SEE ACTIVITY 13), SET TURBIDITY CURTAIN AND INSTALL MARINE ENCLOSURE AND TEMPORARY FENDER SYSTEM AROUND PIVOT PIER.
	EXCAVATE AROUND PIVOT PIER TO BOTTOM OF TIMBER MAT FOUNDATION. REMOVE PIVOT PIER TO BOTTOM OF TIMBER MAT FOUNDATION AND BACKFILL.
	REMOVE MARINE ENCLOSURE AND TEMPORARY FENDER SYSTEM AROUND PIVOT PIER.
	SET TURBIDITY CURTAIN. REMOVE EXISTING FENDER SYSTEM AND MODIFY MARINE ENCLOSURES AT PIERS 2 AND 3.
	INSTALL TEMPORARY FENDER SYSTEM. EXCAVATE AROUND EXISTING PIERS 2 AND 3 TO BOTTOM OF TIMBER MAT FOUNDATION WITHIN MARINE ENCLOSURE.
	REMOVE EXISTING PIERS 2 AND 3 TO BOTTOM OF TIMBER MAT FOUNDATION AND BACKFILL.
	REMOVE CHANNEL FACE OF MARINE ENCLOSURES AT PIERS 2 AND 3.

NOTES:

1. VERTICAL DATUM IS NAVD 88. ELEVATIONS RELATIVE TO MLLW TIDAL DATUM ARE SHOWN IN PARENTHESES.
2. THE WORK ON THIS SHEET WILL BE ACCOMPLISHED WHILE THE CHANNEL IS CLOSED TO NAVIGATION.
3. MARINE ENCLOSURE INSTALLATION WILL BE COORDINATED WITH REMOVAL OF THE SLIDE RAILS (ACTIVITY 13) TO TAKE ADVANTAGE OF THE NAVIGATION OUTAGE.
4. SINGLE-CHANNEL RESTRICTIONS MAY BE NEEDED UNTIL THE MARINE ENCLOSURE IS COMPLETE.
5. TEMPORARY AIDS TO NAVIGATION (E.G., LIGHTS) WILL BE COORDINATED WITH THE USCG.
6. THE LIFT SPAN WILL BE RAISED AS NEED TO INSTALL THE MARINE ENCLOSURE.
7. SEE VESSEL BERTHING PLAN (DWG. GEN-9) FOR TYPICAL BARGE SIZES. EQUIPMENT AND MATERIAL BARGES WILL BE MOORED TO TRESTLE MOORING PILES OR SPUD PILES (36" MAX.) IN THE RIVER.

ELEVATION TABLE			
DESCRIPTION	CONTOUR	ELEVATION (NAVD88)	ELEVATION (MLLW)
100-YEAR FLOODPLAIN	100 YR	10.0/12.0	13.98/15.98
MAX. ELEVATION OF LAND CAPABLE OF SUPPORTING TIDAL VEGETATION	CJL+1	6.4	10.38
CT COASTAL JURISDICTION LINE	CJL	5.4	9.38
HIGH TIDE LINE	HTL	5.2	9.18
MEAN HIGH WATER LINE	MHW	3.35	7.33
MEAN LOW WATER LINE	MLW	-3.72	0.26
MEAN LOWER LOW WATER LINE	MLLW	-3.98	0

SCALE:
SCALE IN FEET
0 25 50
SCALE 1"=50'

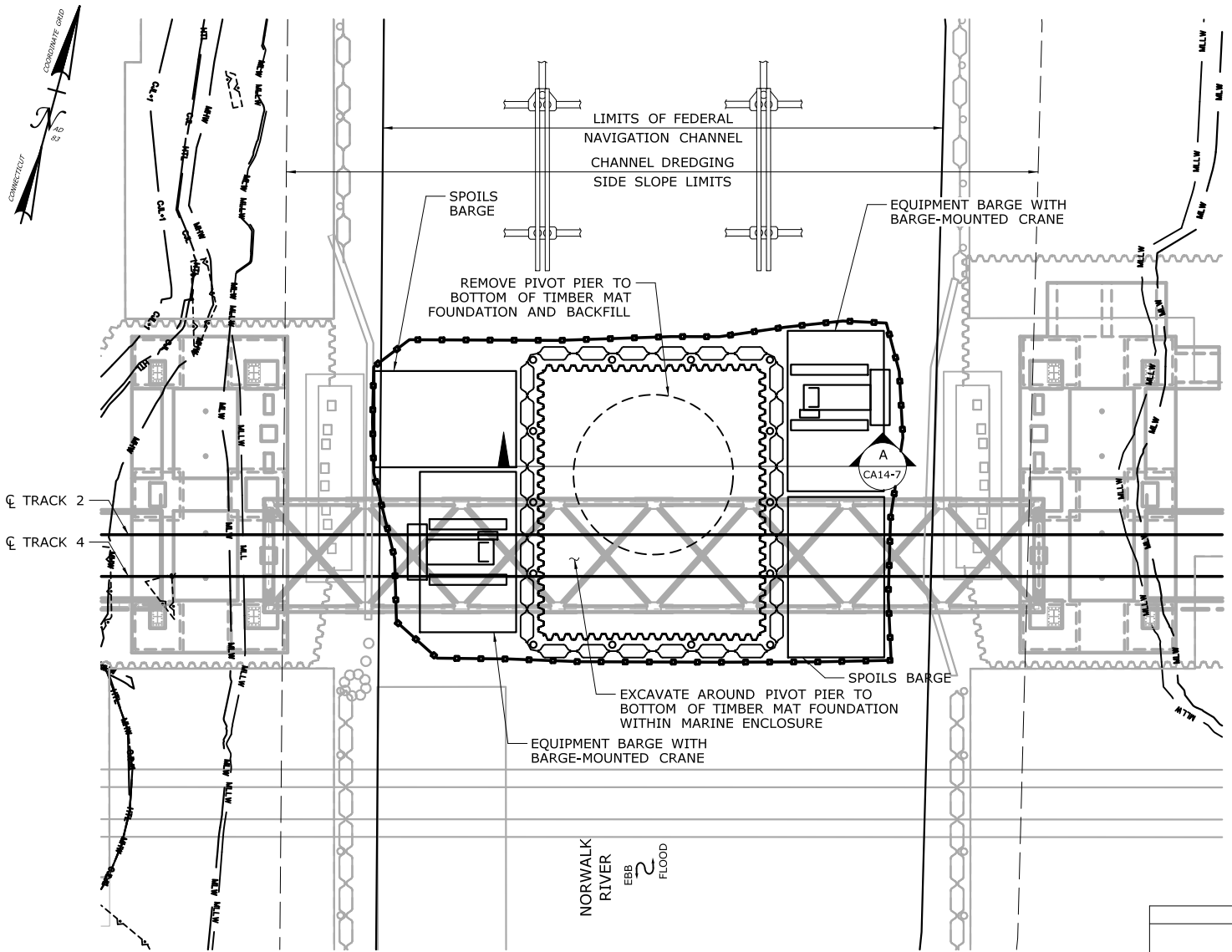
DRAWN: T. ADINOLFI
CHECKED: V. ROBBINS
APPROVED: C. BROWN

SIGNATURE BLOCK:

STATE OF CONNECTICUT
DEPARTMENT OF TRANSPORTATION

PROJECT TITLE:
WALK BRIDGE REPLACEMENT OVER THE NORWALK RIVER BRIDGE NO. 04288R/MP 41.5

TOWN: **NORWALK**
PROJECT NO.: **0301-0176**
DRAWING TITLE: **ACTIVITY 14 PIER REMOVAL (SHEET 1 OF 8)**
DATE: **REV 7-31-20**
DRAWING NO.: **CA14-1**



PLAN

CONSTRUCTION SEQUENCE

THE SHEETS IN THIS SUBSET DESCRIBE THE SEQUENCE OF ACTIVITIES REQUIRED TO REMOVE THE PIERS WITH REFERENCES TO RELATED ACTIVITIES THROUGHOUT. FOR DETAILS OF RELATED ACTIVITIES, REFER TO THE SUBSETS NOTED IN PARENTHESES. WORK DEPICTED ON THIS SHEET IS IDENTIFIED WITH AN "X" IN THE TABLE.

	WORK DESCRIPTION
	FOLLOWING REMOVAL OF THE SOUTH HALF OF THE SLIDE RAILS (SEE ACTIVITY 13), SET TURBIDITY CURTAIN AND INSTALL MARINE ENCLOSURE AND TEMPORARY FENDER SYSTEM AROUND PIVOT PIER.
X	EXCAVATE AROUND PIVOT PIER TO BOTTOM OF TIMBER MAT FOUNDATION. REMOVE PIVOT PIER TO BOTTOM OF TIMBER MAT FOUNDATION AND BACKFILL.
	REMOVE MARINE ENCLOSURE AND TEMPORARY FENDER SYSTEM AROUND PIVOT PIER.
	SET TURBIDITY CURTAIN. REMOVE EXISTING FENDER SYSTEM AND MODIFY MARINE ENCLOSURES AT PIERS 2 AND 3.
	INSTALL TEMPORARY FENDER SYSTEM. EXCAVATE AROUND EXISTING PIERS 2 AND 3 TO BOTTOM OF TIMBER MAT FOUNDATION WITHIN MARINE ENCLOSURE.
	REMOVE EXISTING PIERS 2 AND 3 TO BOTTOM OF TIMBER MAT FOUNDATION AND BACKFILL.
	REMOVE CHANNEL FACE OF MARINE ENCLOSURES AT PIERS 2 AND 3.

NOTES:

1. THE WORK ON THIS SHEET WILL BE ACCOMPLISHED WHILE THE CHANNEL IS CLOSED TO NAVIGATION.
2. SEE VESSEL BERTHING PLAN (DWG. GEN-9) FOR TYPICAL BARGE SIZES.
3. BARGES WILL BE MOORED TO TRESTLE MOORING PILES OR SPUD PILES (36" MAX.) IN THE RIVER.
4. SPOIL TANKS WILL BE USED FOR DEWATERING OF MATERIAL EXCAVATED FROM WITHIN THE MARINE ENCLOSURE.
5. PIER REMOVAL WORK ABOVE HIGH TIDE LINE IS ANTICIPATED TO BE PERFORMED USING HYDRAULIC BREAKERS (E.G., JACKHAMMERS AND HOE RAMS). SPLASH FROM FALLING DEBRIS SHALL BE LIMITED TO THE AREA WITHIN TURBIDITY CURTAIN. PIER REMOVAL WORK BELOW HIGH TIDE LINE IS ANTICIPATED TO BE PERFORMED USING AN EXCAVATOR WITH A THUMB. BELOW THE HTL, HYDRAULIC BREAKERS (E.G., JACKHAMMERS AND HOE RAMS) AND EXPLOSIVES WILL NOT BE USED.
6. THE LIFT SPAN WILL BE RAISED AS NEEDED FOR EXCAVATION AND REMOVAL.

ELEVATION TABLE

DESCRIPTION	CONTOUR	ELEVATION (NAVD88)	ELEVATION (MLLW)
100-YEAR FLOODPLAIN	100 YR	10.0/12.0	13.98/15.98
MAX. ELEVATION OF LAND CAPABLE OF SUPPORTING TIDAL VEGETATION	CJL+1	6.4	10.38
CT COASTAL JURISDICTION LINE	CJL	5.4	9.38
HIGH TIDE LINE	HTL	5.2	9.18
MEAN HIGH WATER LINE	MHW	3.35	7.33
MEAN LOW WATER LINE	MLW	-3.72	0.26
MEAN LOWER LOW WATER LINE	MLLW	-3.98	0

SCALE:
SCALE IN FEET
0 25 50
SCALE 1"=50'

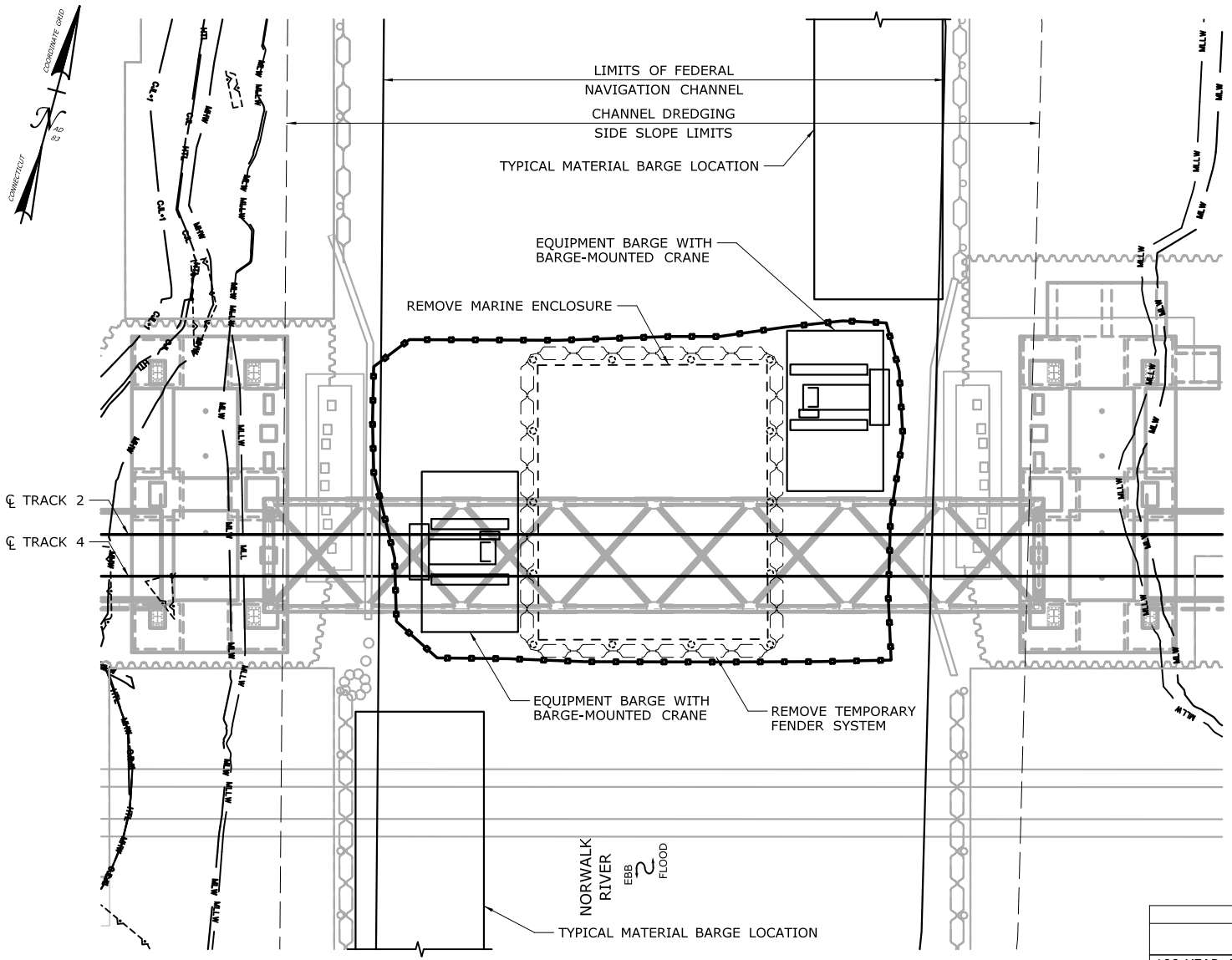
DRAWN: T. ADINOLFI
CHECKED: V. ROBBINS
APPROVED: C. BROWN

SIGNATURE BLOCK:

STATE OF CONNECTICUT
DEPARTMENT OF TRANSPORTATION

PROJECT TITLE:
WALK BRIDGE REPLACEMENT OVER THE NORWALK RIVER BRIDGE NO. 04288R/MP 41.5

TOWN: **NORWALK**
PROJECT NO.: **0301-0176**
DRAWING TITLE: **ACTIVITY 14 PIER REMOVAL (SHEET 2 OF 8)**
DATE: **REV 7-31-20**
DRAWING NO.: **CA14-2**



PLAN

CONSTRUCTION SEQUENCE

THE SHEETS IN THIS SUBSET DESCRIBE THE SEQUENCE OF ACTIVITIES REQUIRED TO REMOVE THE PIERS WITH REFERENCES TO RELATED ACTIVITIES THROUGHOUT. FOR DETAILS OF RELATED ACTIVITIES, REFER TO THE SUBSETS NOTED IN PARENTHESES. WORK DEPICTED ON THIS SHEET IS IDENTIFIED WITH AN "X" IN THE TABLE.

WORK DESCRIPTION

	FOLLOWING REMOVAL OF THE SOUTH HALF OF THE SLIDE RAILS (SEE ACTIVITY 13), SET TURBIDITY CURTAIN AND INSTALL MARINE ENCLOSURE AND TEMPORARY FENDER SYSTEM AROUND PIVOT PIER.
	EXCAVATE AROUND PIVOT PIER TO BOTTOM OF TIMBER MAT FOUNDATION. REMOVE PIVOT PIER TO BOTTOM OF TIMBER MAT FOUNDATION AND BACKFILL.
X	REMOVE MARINE ENCLOSURE AND TEMPORARY FENDER SYSTEM AROUND PIVOT PIER.
	SET TURBIDITY CURTAIN, REMOVE EXISTING FENDER SYSTEM AND MODIFY MARINE ENCLOSURES AT PIERS 2 AND 3.
	INSTALL TEMPORARY FENDER SYSTEM. EXCAVATE AROUND EXISTING PIERS 2 AND 3 TO BOTTOM OF TIMBER MAT FOUNDATION WITHIN MARINE ENCLOSURE.
	REMOVE EXISTING PIERS 2 AND 3 TO BOTTOM OF TIMBER MAT FOUNDATION AND BACKFILL.
	REMOVE CHANNEL FACE OF MARINE ENCLOSURES AT PIERS 2 AND 3.

NOTES:

1. THE WORK ON THIS SHEET WILL BE ACCOMPLISHED WILE THE CHANNEL IS CLOSED TO NAVIGATION.
2. THE LIFT SPAN WILL BE RAISED AS NEEDED TO REMOVE SECTIONS OF THE MARINE ENCLOSURE BENEATH THE BRIDGE.
3. BARGES WILL NOT SIMULTANEOUSLY OCCUPY BOTH CHANNELS WHILE THE CHANNEL IS OPEN.
4. SEE VESSEL BERTHING PLAN (DWG. GEN-9) FOR TYPICAL BARGE SIZES.
5. BARGES WILL BE MOORED TO TRESTLE MOORING PILES OR SPUD PILES (36" MAX.) IN THE RIVER.
6. TEMPORARY AIDS TO NAVIGATION (E.G., LIGHTS) WILL BE COORDINATED WITH THE USCG.

ELEVATION TABLE

DESCRIPTION	CONTOUR	ELEVATION (NAVD88)	ELEVATION (MLLW)
100-YEAR FLOODPLAIN	100 YR	10.0/12.0	13.98/15.98
MAX. ELEVATION OF LAND CAPABLE OF SUPPORTING TIDAL VEGETATION	CJL+1	6.4	10.38
CT COASTAL JURISDICTION LINE	CJL	5.4	9.38
HIGH TIDE LINE	HTL	5.2	9.18
MEAN HIGH WATER LINE	MHW	3.35	7.33
MEAN LOW WATER LINE	MLW	-3.72	0.26
MEAN LOWER LOW WATER LINE	MLLW	-3.98	0

SCALE:
SCALE IN FEET
0 25 50
SCALE 1"=50'

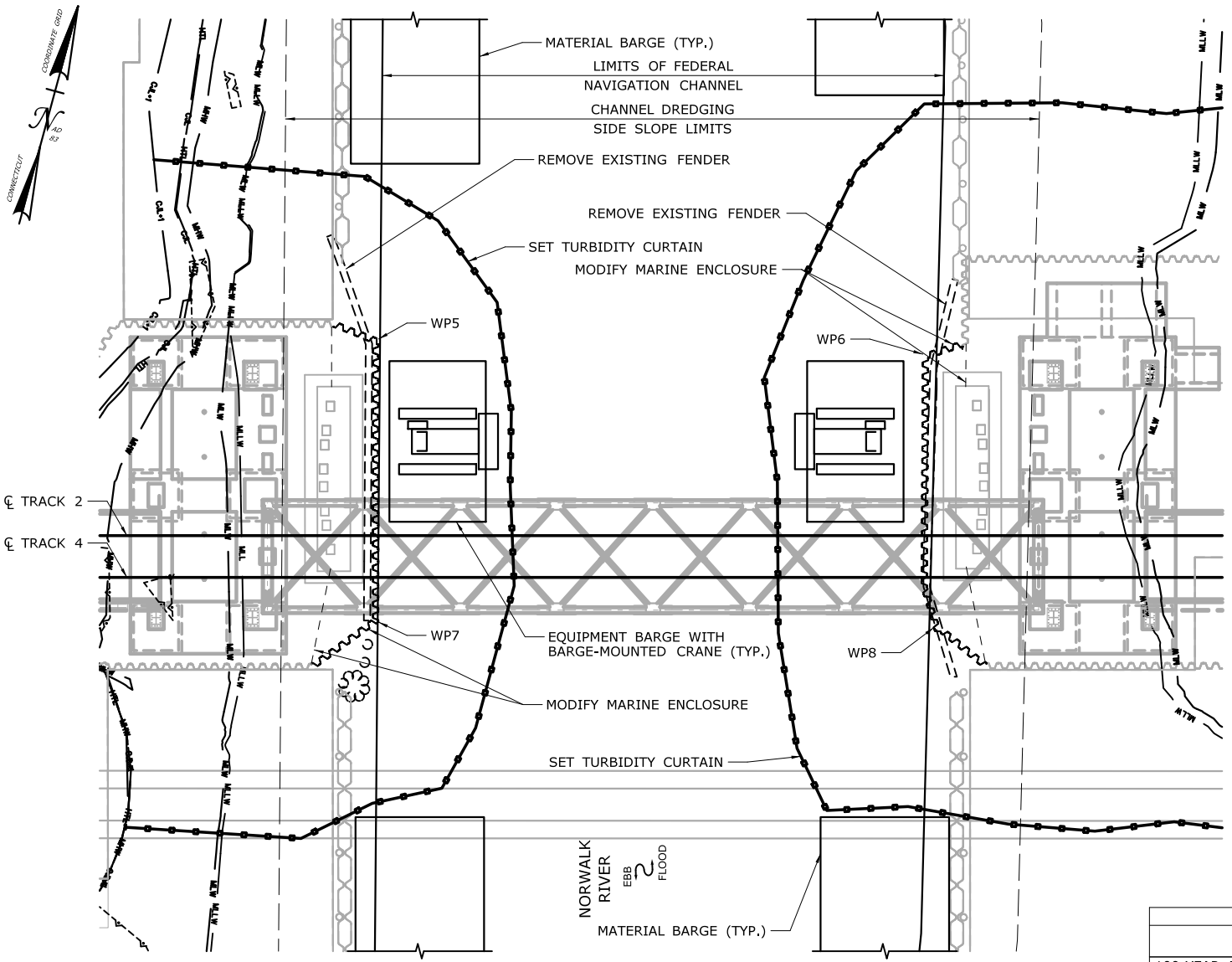
DRAWN: T. ADINOLFI
CHECKED: V. ROBBINS
APPROVED: C. BROWN

SIGNATURE BLOCK:

STATE OF CONNECTICUT
DEPARTMENT OF TRANSPORTATION

PROJECT TITLE:
WALK BRIDGE REPLACEMENT OVER THE NORWALK RIVER BRIDGE NO. 04288R/MP 41.5

TOWN: **NORWALK**
PROJECT NO.: **0301-0176**
DRAWING TITLE: **ACTIVITY 14 PIER REMOVAL (SHEET 3 OF 8)**
DATE: **REV 7-31-20**
DRAWING NO.: **CA14-3**



PLAN

WORKING POINT	NORTHING	EASTING
WP5	598,054	816,547
WP6	598,094	816,712
WP7	597,969	816,570
WP8	598,013	816,737

CONSTRUCTION SEQUENCE

THE SHEETS IN THIS SUBSET DESCRIBE THE SEQUENCE OF ACTIVITIES REQUIRED TO REMOVE THE PIERS WITH REFERENCES TO RELATED ACTIVITIES THROUGHOUT. FOR DETAILS OF RELATED ACTIVITIES, REFER TO THE SUBSETS NOTED IN PARENTHESES. WORK DEPICTED ON THIS SHEET IS IDENTIFIED WITH AN "X" IN THE TABLE.

	WORK DESCRIPTION
	FOLLOWING REMOVAL OF THE SOUTH HALF OF THE SLIDE RAILS (SEE ACTIVITY 13), SET TURBIDITY CURTAIN AND INSTALL MARINE ENCLOSURE AND TEMPORARY FENDER SYSTEM AROUND PIVOT PIER.
	EXCAVATE AROUND PIVOT PIER TO BOTTOM OF TIMBER MAT FOUNDATION. REMOVE PIVOT PIER TO BOTTOM OF TIMBER MAT FOUNDATION AND BACKFILL.
	REMOVE MARINE ENCLOSURE AND TEMPORARY FENDER SYSTEM AROUND PIVOT PIER.
X	SET TURBIDITY CURTAIN. REMOVE EXISTING FENDER SYSTEM AND MODIFY MARINE ENCLOSURES AT PIERS 2 AND 3.
	INSTALL TEMPORARY FENDER SYSTEM. EXCAVATE AROUND EXISTING PIERS 2 AND 3 TO BOTTOM OF TIMBER MAT FOUNDATION WITHIN MARINE ENCLOSURE.
	REMOVE EXISTING PIERS 2 AND 3 TO BOTTOM OF TIMBER MAT FOUNDATION AND BACKFILL.
	REMOVE CHANNEL FACE OF MARINE ENCLOSURES AT PIERS 2 AND 3.

NOTES:

1. THE LIFT SPAN WILL BE RAISED AS NEEDED TO MODIFY SECTIONS OF THE MARINE ENCLOSURES BENEATH THE BRIDGE.
2. WORK WILL PROGRESS ONE PIER AT A TIME. BARGES WILL NOT SIMULTANEOUSLY OCCUPY BOTH NAVIGATION CHANNELS AFTER THE CHANNEL IS RE-OPENED.
3. SEE VESSEL BERTHING PLAN (DWG. GEN-9) FOR TYPICAL BARGE SIZES. BARGES WILL BE MOORED TO TRESTLE MOORING PILES OR SPUD PILES (36" MAX.) IN THE RIVER.
4. TEMPORARY AIDS TO NAVIGATION (E.G., LIGHTS) WILL BE COORDINATED WITH THE USCG.

ELEVATION TABLE			
DESCRIPTION	CONTOUR	ELEVATION (NAVD88)	ELEVATION (MLLW)
100-YEAR FLOODPLAIN	100 YR	10.0/12.0	13.98/15.98
MAX. ELEVATION OF LAND CAPABLE OF SUPPORTING TIDAL VEGETATION	CJL+1	6.4	10.38
CT COASTAL JURISDICTION LINE	CJL	5.4	9.38
HIGH TIDE LINE	HTL	5.2	9.18
MEAN HIGH WATER LINE	MHW	3.35	7.33
MEAN LOW WATER LINE	MLW	-3.72	0.26
MEAN LOWER LOW WATER LINE	MLLW	-3.98	0

SCALE:
SCALE IN FEET
0 25 50
SCALE 1"=50'

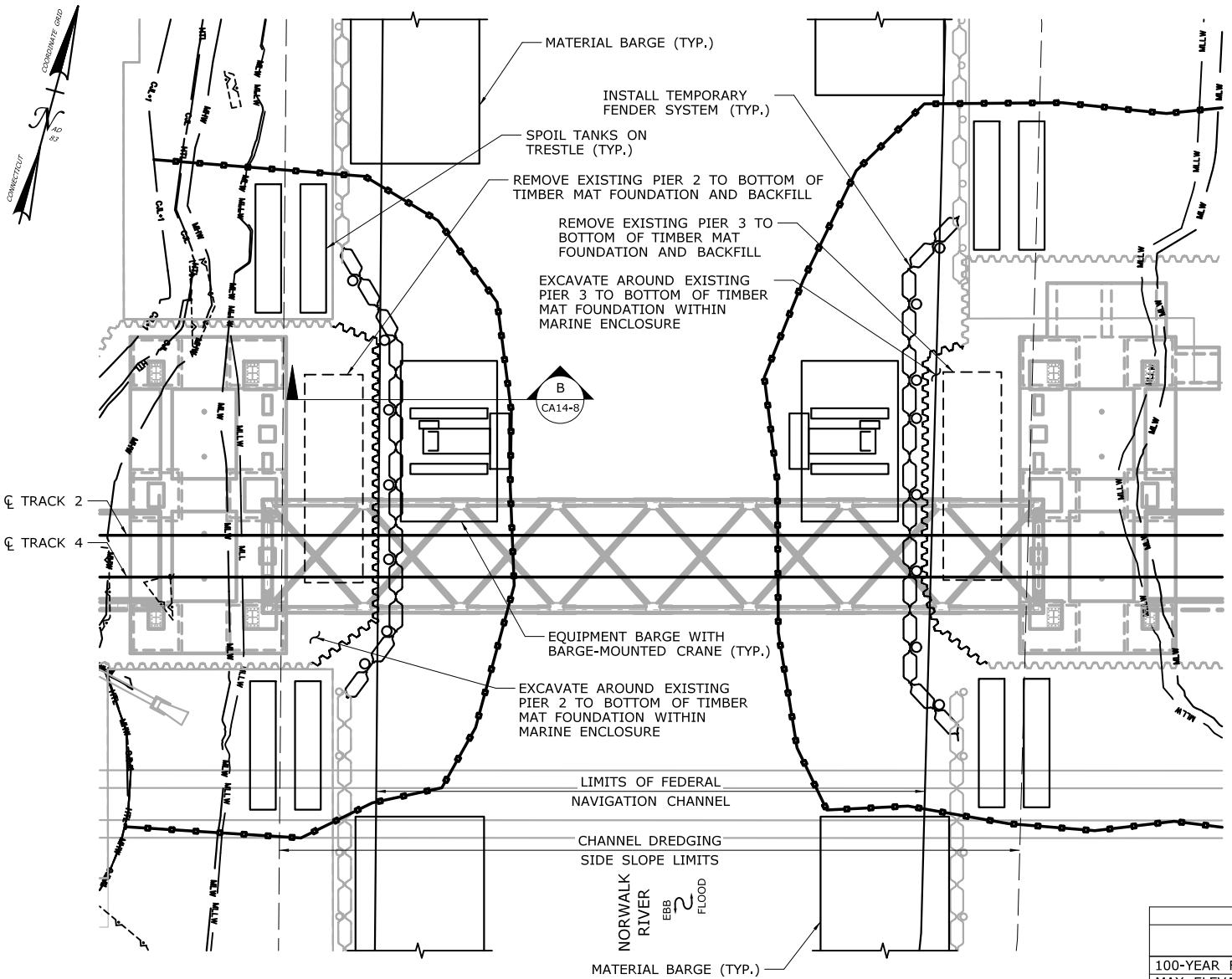
DRAWN: T. ADINOLFI
CHECKED: V. ROBBINS
APPROVED: C. BROWN

SIGNATURE BLOCK:

STATE OF CONNECTICUT
DEPARTMENT OF TRANSPORTATION

PROJECT TITLE:
WALK BRIDGE REPLACEMENT OVER THE NORWALK RIVER BRIDGE NO. 04288R/MP 41.5

TOWN: **NORWALK**
PROJECT NO.: **0301-0176**
DRAWING TITLE: **ACTIVITY 14 PIER REMOVAL (SHEET 4 OF 8)**
DATE: **REV 7-31-20**
DRAWING NO.: **CA14-4**



PLAN

CONSTRUCTION SEQUENCE

THE SHEETS IN THIS SUBSET DESCRIBE THE SEQUENCE OF ACTIVITIES REQUIRED TO REMOVE THE PIERS WITH REFERENCES TO RELATED ACTIVITIES THROUGHOUT. FOR DETAILS OF RELATED ACTIVITIES, REFER TO THE SUBSETS NOTED IN PARENTHESES. WORK DEPICTED ON THIS SHEET IS IDENTIFIED WITH AN "X" IN THE TABLE.

	WORK DESCRIPTION
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	EXCAVATE AROUND PIVOT PIER TO BOTTOM OF TIMBER MAT FOUNDATION. REMOVE PIVOT PIER TO BOTTOM OF TIMBER MAT FOUNDATION AND BACKFILL.
	REMOVE MARINE ENCLOSURE AND TEMPORARY FENDER SYSTEM AROUND PIVOT PIER.
	SET TURBIDITY CURTAIN. REMOVE EXISTING FENDER SYSTEM AND MODIFY MARINE ENCLOSURES AT PIERS 2 AND 3.
X	INSTALL TEMPORARY FENDER SYSTEM. EXCAVATE AROUND EXISTING PIERS 2 AND 3 TO BOTTOM OF TIMBER MAT FOUNDATION WITHIN MARINE ENCLOSURE.
X	REMOVE EXISTING PIERS 2 AND 3 TO BOTTOM OF TIMBER MAT FOUNDATION AND BACKFILL.
	REMOVE CHANNEL FACE OF MARINE ENCLOSURES AT PIERS 2 AND 3.

NOTES:

1. WORK WILL PROGRESS ONE PIER AT A TIME. BARGES WILL NOT SIMULTANEOUSLY OCCUPY BOTH NAVIGATION CHANNELS WHILE THE CHANNEL IS OPEN.
2. SEE VESSEL BERTHING PLAN (DWG. GEN-9) FOR TYPICAL BARGE SIZES. BARGES WILL BE MOORED TO TRESTLE MOORING PILES OR SPUD PILES (36" MAX.) IN THE RIVER.
3. SPOIL TANKS WILL BE USED FOR DEWATERING OF MATERIAL EXCAVATED FROM WITHIN THE MARINE ENCLOSURE.
4. PIER REMOVAL WORK ABOVE HIGH TIDE LINE IS ANTICIPATED TO BE PERFORMED USING HYDRAULIC BREAKERS (E.G., JACKHAMMERS AND HOE RAMS). SPLASH FROM FALLING DEBRIS SHALL BE LIMITED TO THE AREA WITHIN TURBIDITY CURTAIN. PIER REMOVAL WORK BELOW HIGH TIDE LINE IS ANTICIPATED TO BE PERFORMED USING AN EXCAVATOR WITH A THUMB. BELOW THE HTL, HYDRAULIC BREAKERS (E.G., JACKHAMMERS AND HOE RAMS) AND EXPLOSIVES WILL NOT BE USED.
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ELEVATION TABLE

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HIGH TIDE LINE	HTL	5.2	9.18
MEAN HIGH WATER LINE	MHW	3.35	7.33
MEAN LOW WATER LINE	MLW	-3.72	0.26
MEAN LOWER LOW WATER LINE	MLLW	-3.98	0

SCALE:
SCALE IN FEET
0 25 50
SCALE 1"=50'

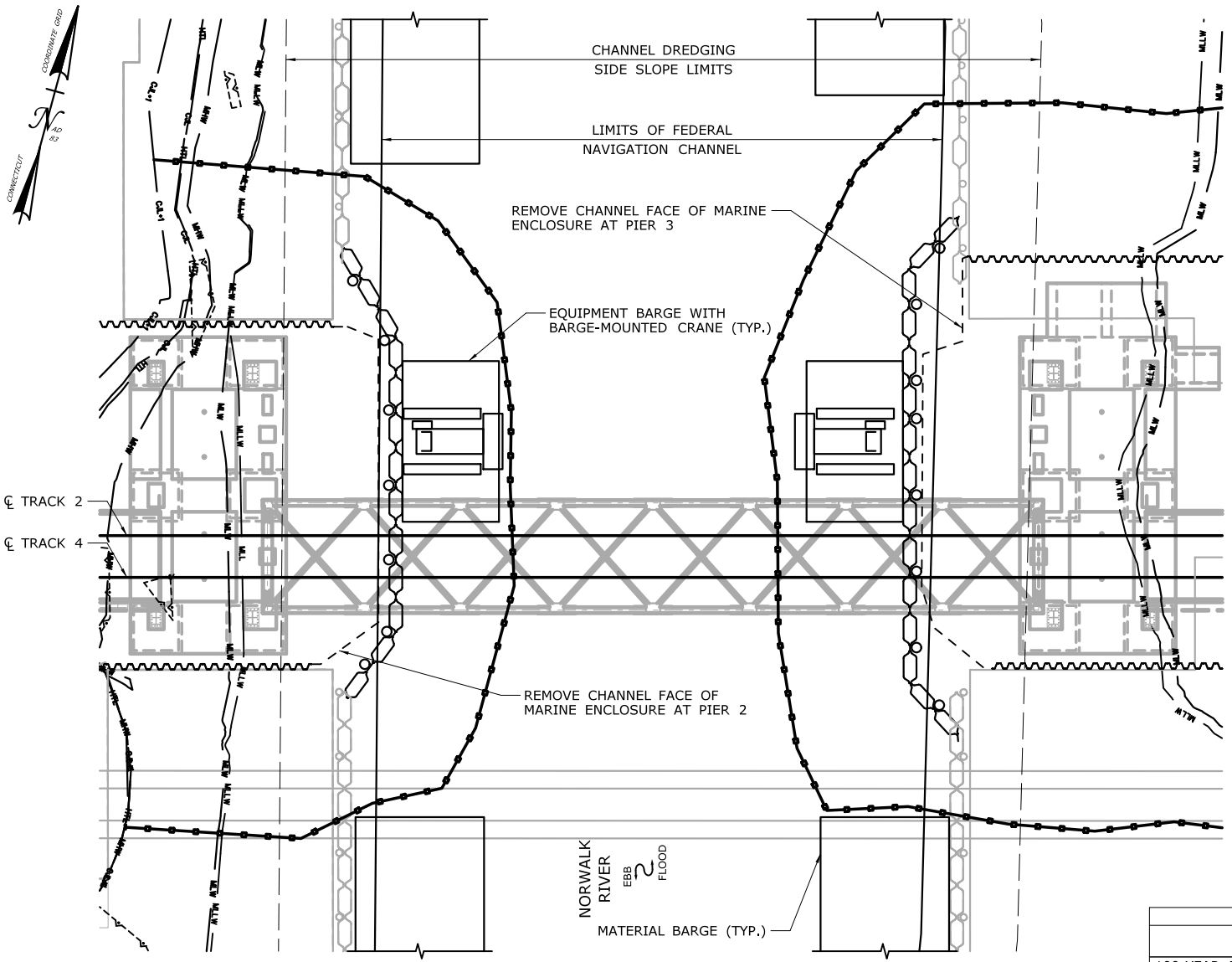
DRAWN: T. ADINOLFI
CHECKED: V. ROBBINS
APPROVED: C. BROWN

SIGNATURE BLOCK:

STATE OF CONNECTICUT
DEPARTMENT OF TRANSPORTATION

PROJECT TITLE:
WALK BRIDGE REPLACEMENT OVER THE NORWALK RIVER BRIDGE NO. 04288R/MP 41.5

TOWN: **NORWALK**
PROJECT NO.: **0301-0176**
DRAWING TITLE: **ACTIVITY 14 PIER REMOVAL (SHEET 5 OF 8)**
DATE: **REV 7-31-20**
DRAWING NO.: **CA14-5**



PLAN

CONSTRUCTION SEQUENCE

THE SHEETS IN THIS SUBSET DESCRIBE THE SEQUENCE OF ACTIVITIES REQUIRED TO REMOVE THE PIERS WITH REFERENCES TO RELATED ACTIVITIES THROUGHOUT. FOR DETAILS OF RELATED ACTIVITIES, REFER TO THE SUBSETS NOTED IN PARENTHESES. WORK DEPICTED ON THIS SHEET IS IDENTIFIED WITH AN "X" IN THE TABLE.

	WORK DESCRIPTION
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	EXCAVATE AROUND PIVOT PIER TO BOTTOM OF TIMBER MAT FOUNDATION. REMOVE PIVOT PIER TO BOTTOM OF TIMBER MAT FOUNDATION AND BACKFILL.
	REMOVE MARINE ENCLOSURE AND TEMPORARY FENDER SYSTEM AROUND PIVOT PIER.
	SET TURBIDITY CURTAIN. REMOVE EXISTING FENDER SYSTEM AND MODIFY MARINE ENCLOSURES AT PIERS 2 AND 3.
	INSTALL TEMPORARY FENDER SYSTEM. EXCAVATE AROUND EXISTING PIERS 2 AND 3 TO BOTTOM OF TIMBER MAT FOUNDATION WITHIN MARINE ENCLOSURE.
	REMOVE EXISTING PIERS 2 AND 3 TO BOTTOM OF TIMBER MAT FOUNDATION AND BACKFILL.
X	REMOVE CHANNEL FACE OF MARINE ENCLOSURES AT PIERS 2 AND 3.

NOTES:

1. THE LIFT SPAN WILL BE RAISED AS NEEDED TO REMOVE SECTIONS OF THE MARINE ENCLOSURES BENEATH THE BRIDGE.
2. WORK WILL PROGRESS ONE PIER AT A TIME. BARGES WILL NOT SIMULTANEOUSLY OCCUPY BOTH NAVIGATION CHANNELS.
3. SEE VESSEL BERTHING PLAN (DWG. GEN-9) FOR TYPICAL BARGE SIZES.
4. BARGES WILL BE MOORED TO TRESTLE MOORING PILES OR SPUD PILES (36" MAX.) IN THE RIVER.

ELEVATION TABLE

DESCRIPTION	CONTOUR	ELEVATION (NAVD88)	ELEVATION (MLLW)
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MAX. ELEVATION OF LAND CAPABLE OF SUPPORTING TIDAL VEGETATION	CJL+1	6.4	10.38
CT COASTAL JURISDICTION LINE	CJL	5.4	9.38
HIGH TIDE LINE	HTL	5.2	9.18
MEAN HIGH WATER LINE	MHW	3.35	7.33
MEAN LOW WATER LINE	MLW	-3.72	0.26
MEAN LOWER LOW WATER LINE	MLLW	-3.98	0

SCALE:
SCALE IN FEET
0 25 50
SCALE 1"=50'

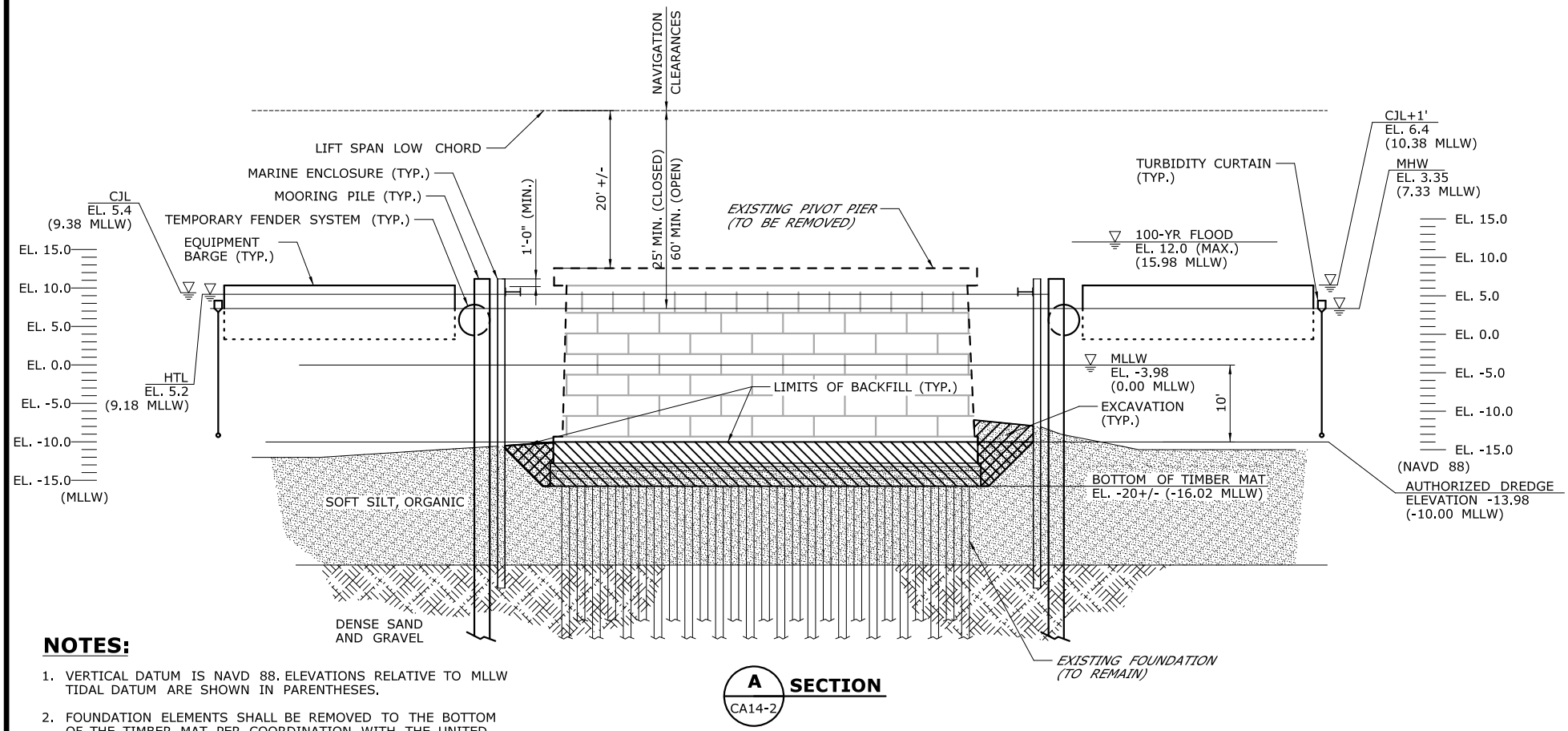
DRAWN: T. ADINOLFI
CHECKED: V. ROBBINS
APPROVED: C. BROWN

SIGNATURE BLOCK:

STATE OF CONNECTICUT
DEPARTMENT OF TRANSPORTATION

PROJECT TITLE:
WALK BRIDGE REPLACEMENT OVER THE NORWALK RIVER BRIDGE NO. 04288R/MP 41.5

TOWN: **NORWALK**
PROJECT NO.: **0301-0176**
DRAWING TITLE: **ACTIVITY 14 PIER REMOVAL (SHEET 6 OF 8)**
DATE: **REV 7-31-20**
DRAWING NO.: **CA14-6**



A
CA14-2
SECTION

NOTES:

1. VERTICAL DATUM IS NAVD 88. ELEVATIONS RELATIVE TO MLLW TIDAL DATUM ARE SHOWN IN PARENTHESES.
2. FOUNDATION ELEMENTS SHALL BE REMOVED TO THE BOTTOM OF THE TIMBER MAT, PER COORDINATION WITH THE UNITED STATES ARMY CORPS OF ENGINEERS.
3. THE 100-YEAR FLOOD ELEVATION VARIES THROUGHOUT THE SITE. WITHIN THE RIVER, IT IS DEFINED AS EL. 12 (15.98 MLLW) AND EL. 10 (13.98 MLLW) DOWNSTREAM AND UPSTREAM OF THE BRIDGE, RESPECTIVELY. SEE FLOOD ZONE MAP (DWG. GEN-6) FOR ADDITIONAL INFORMATION.
4. THE WATER LEVEL WITHIN THE MARINE ENCLOSURE WILL BE MAINTAINED AT OR BELOW THE WATER ELEVATION IN THE RIVER.
5. MARINE ENCLOSURE WILL BE INSTALLED SO THAT THE TOP WILL BE AT OR ABOVE ELEV. 6.2 (10.18 MLLW), 1 FOOT ABOVE THE HIGH TIDE LINE.
6. BACKFILL WILL CONSIST OF SOILS CONTAINING NO MORE THAN 25% SAND BY WEIGHT AND AN ORGANIC CONTENT NO LESS THAN 25% AND NO MORE THAN 40% BY WEIGHT.

ELEVATION TABLE			
DESCRIPTION	CONTOUR	ELEVATION (NAVD88)	ELEVATION (MLLW)
100-YEAR FLOODPLAIN	100 YR	10.0/12.0	13.98/15.98
MAX. ELEVATION OF LAND CAPABLE OF SUPPORTING TIDAL VEGETATION	CJL+1	6.4	10.38
CT COASTAL JURISDICTION LINE	CJL	5.4	9.38
HIGH TIDE LINE	HTL	5.2	9.18
MEAN HIGH WATER LINE	MHW	3.35	7.33
MEAN LOW WATER LINE	MLW	-3.72	0.26
MEAN LOWER LOW WATER LINE	MLLW	-3.98	0

SCALE:
SCALE IN FEET
0 10 20
SCALE 1"=20'

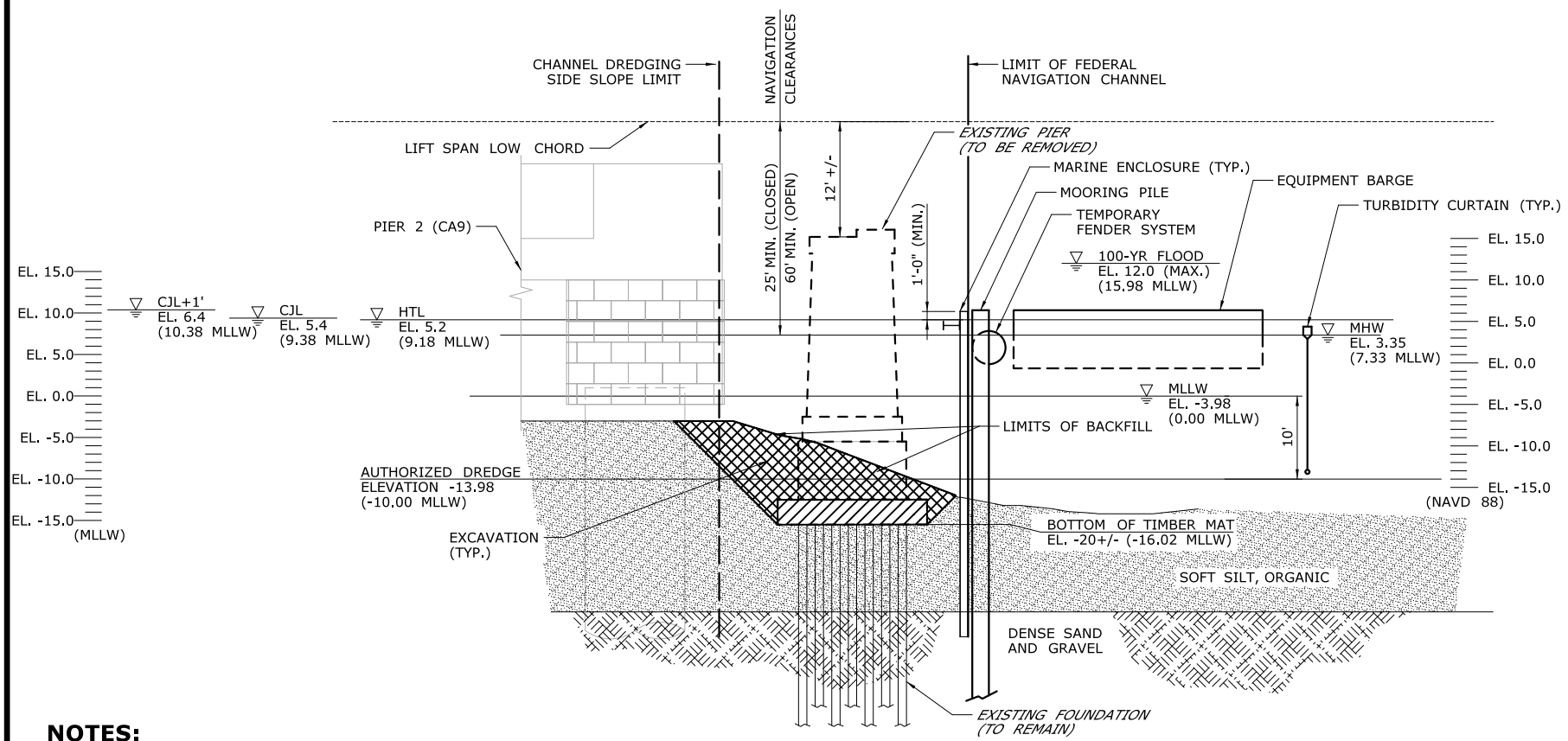
DRAWN: T. ADINOLFI
CHECKED: V. ROBBINS
APPROVED: C. BROWN

SIGNATURE BLOCK:

STATE OF CONNECTICUT
DEPARTMENT OF TRANSPORTATION

PROJECT TITLE:
WALK BRIDGE REPLACEMENT OVER THE NORWALK RIVER BRIDGE NO. 04288R/MP 41.5

TOWN: **NORWALK**
PROJECT NO.: **0301-0176**
DRAWING TITLE: **ACTIVITY 14 PIER REMOVAL (SHEET 7 OF 8)**
DATE: **REV 7-31-20**
DRAWING NO.: **CA14-7**



NOTES:

1. VERTICAL DATUM IS NAVD 88. ELEVATIONS RELATIVE TO MLLW TIDAL DATUM ARE SHOWN IN PARENTHESES.
2. FOUNDATION ELEMENTS SHALL BE REMOVED TO THE BOTTOM OF THE TIMBER MAT, PER COORDINATION WITH THE UNITED STATES ARMY CORPS OF ENGINEERS.
3. THE 100-YEAR FLOOD ELEVATION VARIES THROUGHOUT THE SITE. WITHIN THE RIVER, IT IS DEFINED AS EL. 12 (15.98 MLLW) AND EL. 10 (13.98 MLLW) DOWNSTREAM AND UPSTREAM OF THE BRIDGE, RESPECTIVELY. SEE FLOOD ZONE MAP (DWG. GEN-6) FOR ADDITIONAL INFORMATION.
4. THE WATER LEVEL WITHIN THE MARINE ENCLOSURE WILL BE MAINTAINED AT OR BELOW THE WATER ELEVATION IN THE RIVER.
5. MARINE ENCLOSURE WILL BE INSTALLED SO THAT THE TOP WILL BE AT OR ABOVE ELEV. 6.2 (10.18 MLLW), 1 FOOT ABOVE THE HIGH TIDE LINE.
6. BACKFILL WILL CONSIST OF SOILS CONTAINING NO MORE THAN 25% SAND BY WEIGHT AND AN ORGANIC CONTENT NO LESS THAN 25% AND NO MORE THAN 40% BY WEIGHT.

B / CA14-5 **SECTION**
(EXISTING PIER 2 SHOW, EXISTING PIER 3 SIMILAR)

ELEVATION TABLE			
DESCRIPTION	CONTOUR	ELEVATION (NAVD88)	ELEVATION (MLLW)
100-YEAR FLOODPLAIN	100 YR	10.0/12.0	13.98/15.98
MAX. ELEVATION OF LAND CAPABLE OF SUPPORTING TIDAL VEGETATION	CJL+1	6.4	10.38
CT COASTAL JURISDICTION LINE	CJL	5.4	9.38
HIGH TIDE LINE	HTL	5.2	9.18
MEAN HIGH WATER LINE	MHW	3.35	7.33
MEAN LOW WATER LINE	MLW	-3.72	0.26
MEAN LOWER LOW WATER LINE	MLLW	-3.98	0

SCALE: SCALE IN FEET 0 10 20 SCALE 1"=20'

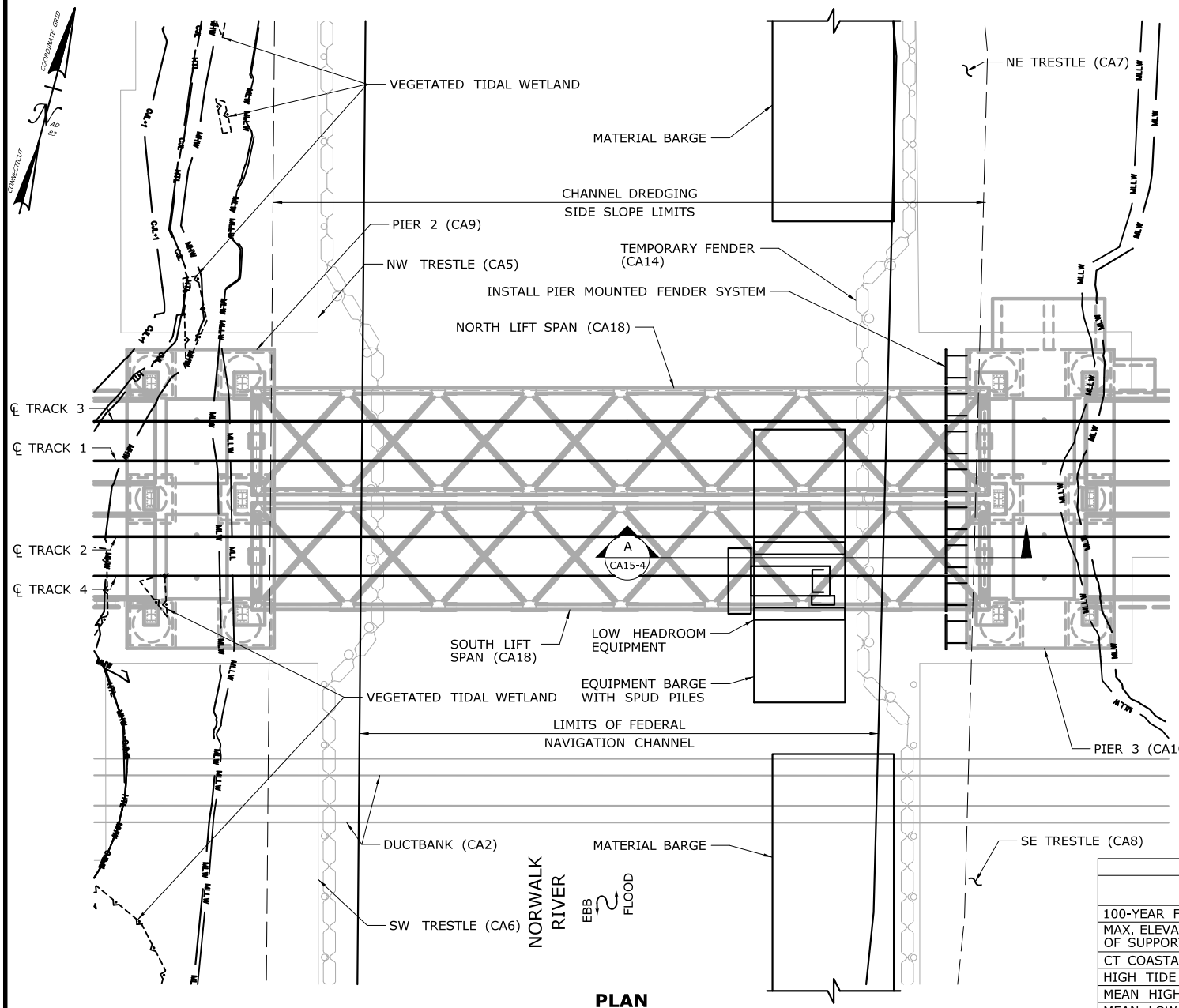
DRAWN: T. ADINOLFI
CHECKED: V. ROBBINS
APPROVED: C. BROWN

SIGNATURE BLOCK:

STATE OF CONNECTICUT
DEPARTMENT OF TRANSPORTATION

PROJECT TITLE:
WALK BRIDGE REPLACEMENT OVER THE NORWALK RIVER BRIDGE NO. 04288R/MP 41.5

TOWN: **NORWALK**
PROJECT NO.: **0301-0176**
DRAWING TITLE: **ACTIVITY 14 PIER REMOVAL (SHEET 8 OF 8)**
DATE: **REV 7-31-20**
DRAWING NO.: **CA14-8**



PLAN

CONSTRUCTION SEQUENCE

THE SHEETS IN THIS SUBSET DESCRIBE THE SEQUENCE OF ACTIVITIES REQUIRED TO INSTALL THE FENDER SYSTEM WITH REFERENCES TO RELATED ACTIVITIES THROUGHOUT. FOR DETAILS OF RELATED ACTIVITIES, REFER TO THE SUBSETS NOTED IN PARENTHESES. WORK DEPICTED ON THIS SHEET IS IDENTIFIED WITH AN "X" IN THE TABLE.

	WORK DESCRIPTION
X	INSTALL PIER MOUNTED FENDER SYSTEM ON THE CHANNEL FACE OF THE PIER.
	FOLLOWING TRESTLE REMOVAL, SET TURBIDITY CURTAIN AND REMOVE TEMPORARY FENDER SYSTEM.
	INSTALL PIER MOUNTED FENDER SYSTEM FOR SOUTH FACE OF PIER. DRIVE FENDER PILES FOR INDEPENDENT FENDER SYSTEM.
	COMPLETE INDEPENDENT FENDER SYSTEM.

NOTES:

1. SEE VESSEL BERTHING PLAN (DWG. GEN-9) FOR TYPICAL BARGE SIZES.
2. EAST SIDE FENDER SHOWN FOR ILLUSTRATION PURPOSES. WEST SIDE FENDER WILL BE BUILT IN SIMILAR MANNER. BOTH FENDERS CAN BE WORKED ON AT THE SAME TIME AS LONG AS THE CHANNEL REMAINS OPEN FOR NAVIGATION.
3. LIMITS OF TEMPORARY FENDER SYSTEM AND TEMPORARY AIDS TO NAVIGATION (E.G., LIGHTS) WILL BE COORDINATED WITH THE USCG.
4. TEMPORARY FENDER SYSTEM SHALL BE IN PLACE PRIOR TO THE INSTALLATION OF THE PERMANENT FENDER.
5. FENDER PILES AND SPUD PILES ARE ANTICIPATED TO BE 36" (MAX.) DIAMETER PIPE PILES.
6. LIFT SPANS WILL BE RAISED AS NEED TO INSTALL THE PIER MOUNTED FENDER SYSTEM.
7. VERTICAL DATUM IS NAVD 88. ELEVATIONS RELATIVE TO MLLW TIDAL DATUM ARE SHOWN IN PARENTHESES.

ELEVATION TABLE			
DESCRIPTION	CONTOUR	ELEVATION (NAVD88)	ELEVATION (MLLW)
100-YEAR FLOODPLAIN	100 YR	10.0/12.0	13.98/15.98
MAX. ELEVATION OF LAND CAPABLE OF SUPPORTING TIDAL VEGETATION	CJL+1	6.4	10.38
CT COASTAL JURISDICTION LINE	CJL	5.4	9.38
HIGH TIDE LINE	HTL	5.2	9.18
MEAN HIGH WATER LINE	MHW	3.35	7.33
MEAN LOW WATER LINE	MLW	-3.72	0.26
MEAN LOWER LOW WATER LINE	MLLW	-3.98	0

SCALE:
SCALE IN FEET
0 25 50
SCALE 1"=50'

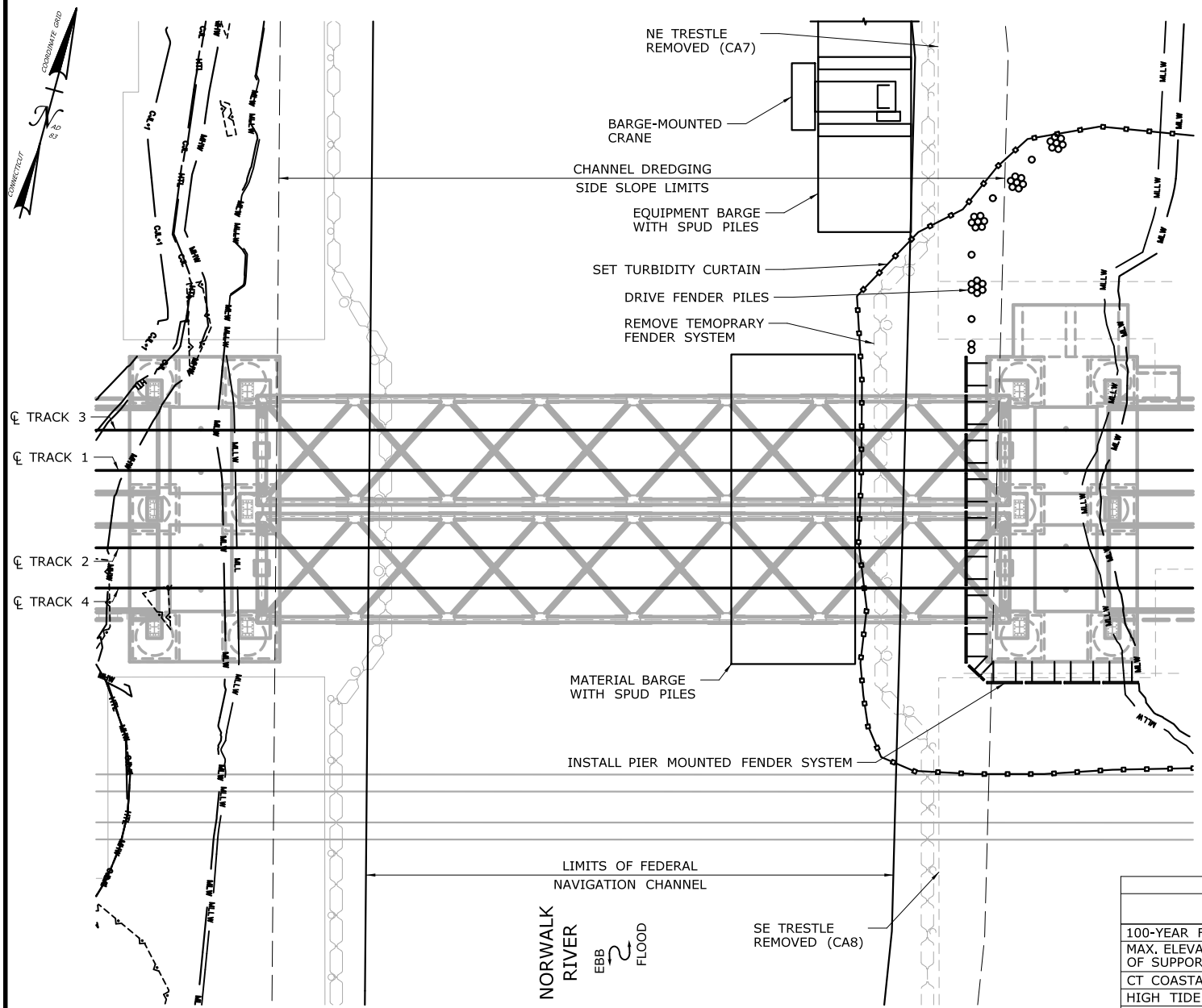
DRAWN: T. ADINOLFI
CHECKED: V. ROBBINS
APPROVED: C. BROWN

SIGNATURE BLOCK:

STATE OF CONNECTICUT
DEPARTMENT OF TRANSPORTATION

PROJECT TITLE:
WALK BRIDGE REPLACEMENT OVER THE NORWALK RIVER BRIDGE NO. 04288R/MP 41.5

TOWN: **NORWALK**
PROJECT NO.: **0301-0176**
DRAWING TITLE: **ACTIVITY 15 FENDER INSTALLATION (SHEET 1 OF 5)**
DATE: **REV 7-31-20**
DRAWING NO.: **CA15-1**



PLAN

CONSTRUCTION SEQUENCE

THE SHEETS IN THIS SUBSET DESCRIBE THE SEQUENCE OF ACTIVITIES REQUIRED TO INSTALL THE FENDER SYSTEM WITH REFERENCES TO RELATED ACTIVITIES THROUGHOUT. FOR DETAILS OF RELATED ACTIVITIES, REFER TO THE SUBSETS NOTED IN PARENTHESES. WORK DEPICTED ON THIS SHEET IS IDENTIFIED WITH AN "X" IN THE TABLE.

	WORK DESCRIPTION
	INSTALL PIER MOUNTED FENDER SYSTEM ON THE CHANNEL FACE OF THE PIER.
X	FOLLOWING TRESTLE REMOVAL, SET TURBIDITY CURTAIN AND REMOVE TEMPORARY FENDER SYSTEM.
X	INSTALL PIER MOUNTED FENDER SYSTEM FOR SOUTH FACE OF PIER. DRIVE FENDER PILES FOR INDEPENDENT FENDER SYSTEM.
	COMPLETE INDEPENDENT FENDER SYSTEM.

NOTES:

1. SEE VESSEL BERTHING PLAN (DWG. GEN-9) FOR TYPICAL BARGE SIZES.
2. EAST SIDE FENDER SHOWN FOR ILLUSTRATION PURPOSES. WEST SIDE FENDER WILL BE BUILT IN SIMILAR MANNER. BOTH FENDERS CAN BE WORKED ON AT THE SAME TIME AS LONG AS THE CHANNEL REMAINS OPEN FOR NAVIGATION.
3. TEMPORARY FENDER SYSTEM SHALL BE IN PLACE PRIOR TO THE INSTALLATION OF THE PERMANENT FENDER.
4. FENDER PILES AND SPUD PILES ARE ANTICIPATED TO BE 36" (MAX.) DIAMETER PIPE PILES.
5. TURBIDITY CURTAIN LOCATION WILL BE COORDINATED WITH PIER AND TRESTLE REMOVALS.
6. VERTICAL DATUM IS NAVD 88. ELEVATIONS RELATIVE TO MLLW TIDAL DATUM ARE SHOWN IN PARENTHESES.

ELEVATION TABLE			
DESCRIPTION	CONTOUR	ELEVATION (NAVD88)	ELEVATION (MLLW)
100-YEAR FLOODPLAIN	100 YR	10.0/12.0	13.98/15.98
MAX. ELEVATION OF LAND CAPABLE OF SUPPORTING TIDAL VEGETATION	CJL+1	6.4	10.38
CT COASTAL JURISDICTION LINE	CJL	5.4	9.38
HIGH TIDE LINE	HTL	5.2	9.18
MEAN HIGH WATER LINE	MHW	3.35	7.33
MEAN LOW WATER LINE	MLW	-3.72	0.26
MEAN LOWER LOW WATER LINE	MLLW	-3.98	0

SCALE:
SCALE IN FEET
0 25 50
SCALE 1"=50'

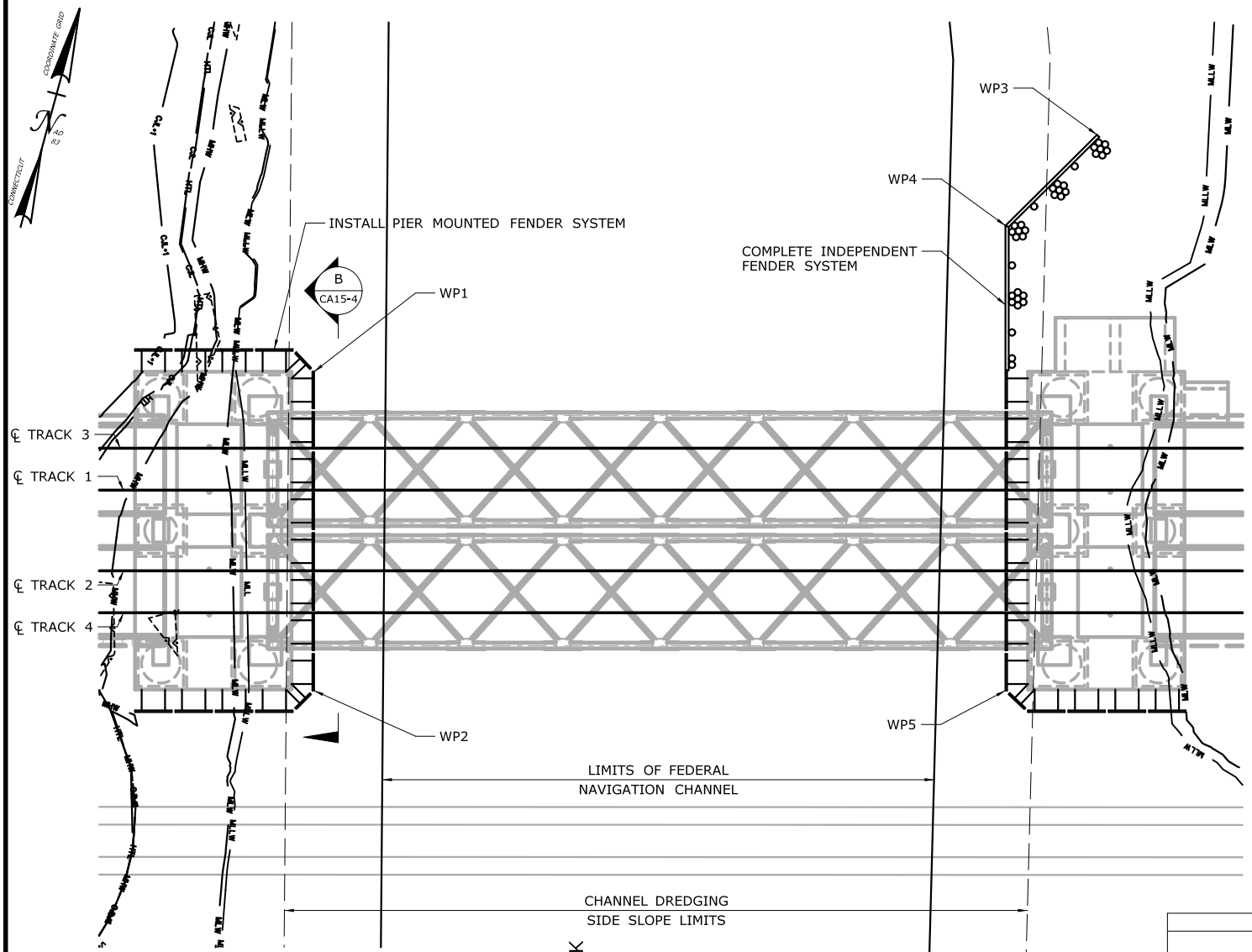
DRAWN: T. ADINOLFI
CHECKED: V. ROBBINS
APPROVED: C. BROWN

SIGNATURE BLOCK:

STATE OF CONNECTICUT
DEPARTMENT OF TRANSPORTATION

PROJECT TITLE:
WALK BRIDGE REPLACEMENT OVER THE NORWALK RIVER BRIDGE NO. 04288R/MP 41.5

TOWN: **NORWALK**
PROJECT NO.: **0301-0176**
DRAWING TITLE: **ACTIVITY 15 FENDER INSTALLATION (SHEET 2 OF 5)**
DATE: **REV 7-31-20**
DRAWING NO.: **CA15-2**



CONSTRUCTION SEQUENCE

THE SHEETS IN THIS SUBSET DESCRIBE THE SEQUENCE OF ACTIVITIES REQUIRED TO INSTALL THE FENDER SYSTEM WITH REFERENCES TO RELATED ACTIVITIES THROUGHOUT. FOR DETAILS OF RELATED ACTIVITIES, REFER TO THE SUBSETS NOTED IN PARENTHESES. WORK DEPICTED ON THIS SHEET IS IDENTIFIED WITH AN "X" IN THE TABLE.

	WORK DESCRIPTION
	INSTALL PIER MOUNTED FENDER SYSTEM ON THE CHANNEL FACE OF THE PIER.
	FOLLOWING TRESTLE REMOVAL, SET TURBIDITY CURTAIN AND REMOVE TEMPORARY FENDER SYSTEM.
	INSTALL PIER MOUNTED FENDER SYSTEM FOR SOUTH FACE OF PIER. DRIVE FENDER PILES FOR INDEPENDENT FENDER SYSTEM.
X	COMPLETE INDEPENDENT FENDER SYSTEM.

NOTES:

1. SEE VESSEL BERTHING PLAN (DWG. GEN-9) FOR TYPICAL BARGE SIZES.
2. EAST SIDE FENDER SHOWN FOR ILLUSTRATION PURPOSES. WEST SIDE FENDER WILL BE BUILT IN SIMILAR MANNER. BOTH FENDERS CAN BE WORKED ON AT THE SAME TIME AS LONG AS THE CHANNEL REMAINS OPEN FOR NAVIGATION.
3. TEMPORARY FENDER SYSTEM SHALL BE IN PLACE PRIOR TO THE INSTALLATION OF THE PERMANENT FENDER.
4. FENDER PILES AND SPUD PILES ARE ANTICIPATED TO BE 36" (MAX.) DIAMETER PIPE PILES.
5. VERTICAL DATUM IS NAVD 88. ELEVATIONS RELATIVE TO MLLW TIDAL DATUM ARE SHOWN IN PARENTHESES.

WORKING POINT	NORTHING	EASTING
WP1	598,049	816,526
WP2	597,954	816,552
WP3	598,184	816,741
WP4	598,149	816,721
WP5	598,010	816,759

PLAN

ELEVATION TABLE			
DESCRIPTION	CONTOUR	ELEVATION (NAVD88)	ELEVATION (MLLW)
100-YEAR FLOODPLAIN	100 YR	10.0/12.0	13.98/15.98
MAX. ELEVATION OF LAND CAPABLE OF SUPPORTING TIDAL VEGETATION	CJL+1	6.4	10.38
CT COASTAL JURISDICTION LINE	CJL	5.4	9.38
HIGH TIDE LINE	HTL	5.2	9.18
MEAN HIGH WATER LINE	MHW	3.35	7.33
MEAN LOW WATER LINE	MLW	-3.72	0.26
MEAN LOWER LOW WATER LINE	MLLW	-3.98	0

SCALE:
SCALE IN FEET
0 25 50
SCALE 1"=50'

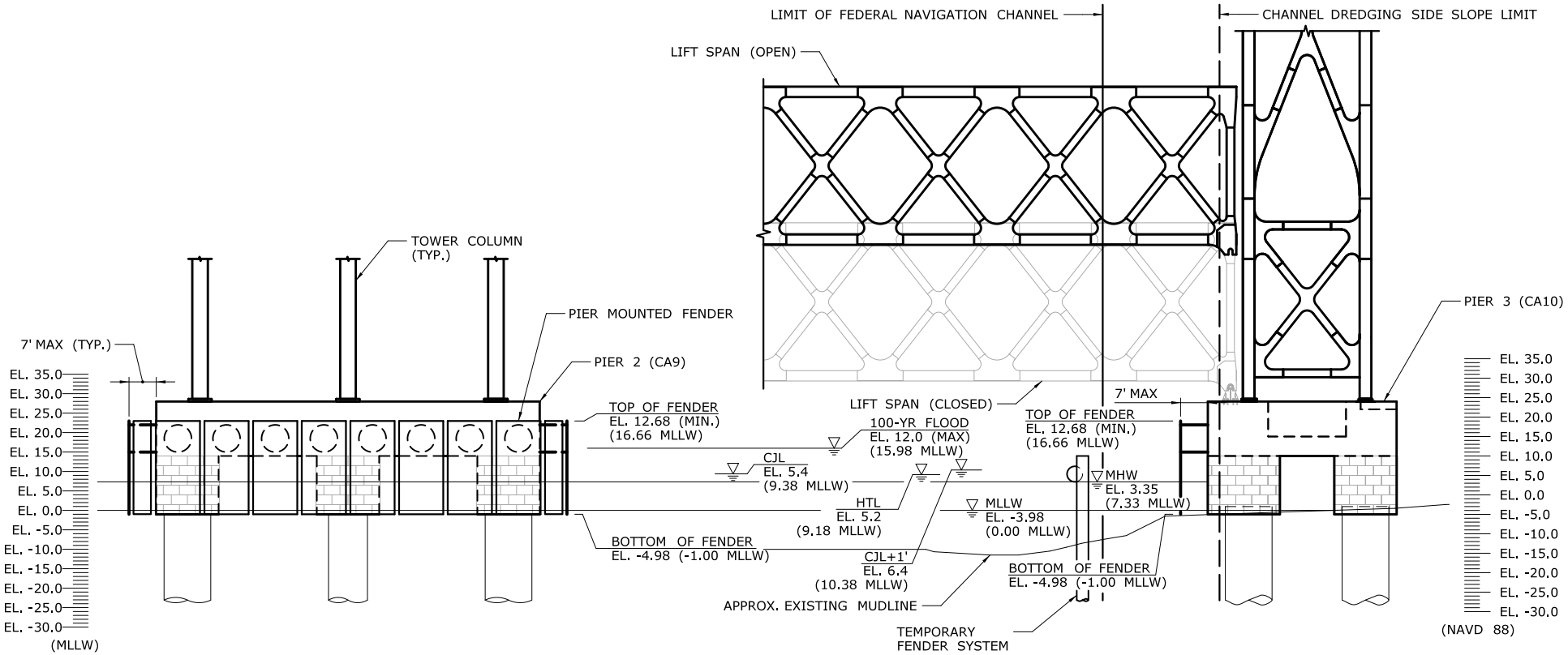
DRAWN: T. ADINOLFI
CHECKED: V. ROBBINS
APPROVED: C. BROWN

SIGNATURE BLOCK:

STATE OF CONNECTICUT
DEPARTMENT OF TRANSPORTATION

PROJECT TITLE:
WALK BRIDGE REPLACEMENT OVER THE NORWALK RIVER BRIDGE NO. 04288R/MP 41.5

TOWN: **NORWALK**
PROJECT NO.: **0301-0176**
DRAWING TITLE: **ACTIVITY 15 FENDER INSTALLATION (SHEET 3 OF 5)**
DATE: **REV 7-31-20**
DRAWING NO.: **CA15-3**



SECTION B CA15-3

SECTION A CA15-1

NOTES:

1. VERTICAL DATUM IS NAVD 88. ELEVATIONS RELATIVE TO MLLW TIDAL DATUM ARE SHOWN IN PARENTHESES.
2. THE 100-YEAR FLOOD ELEVATION VARIES THROUGHOUT THE SITE. WITHIN THE RIVER, IT IS DEFINED AS EL. 12 (15.98 MLLW) AND EL. 10 (13.98 MLLW) DOWNSTREAM AND UPSTREAM OF THE BRIDGE, RESPECTIVELY. SEE FLOOD ZONE MAP (DWG. GEN-6) FOR ADDITIONAL INFORMATION.
3. LIFT SPANS WILL BE RAISED AS NEEDED TO INSTALL THE PIER MOUNTED FENDER SYSTEM.
4. NAVIGATION LIGHTS WILL BE USED TO DEFINE THE LIMITS OF THE FEDERAL NAVIGATION CHANNEL.
5. LIMITS OF TEMPORARY FENDER SYSTEM AND TEMPORARY AIDS TO NAVIGATION (E.G. LIGHTS) WILL BE COORDINATED WITH THE USCG.

ELEVATION TABLE			
DESCRIPTION	CONTOUR	ELEVATION (NAVD88)	ELEVATION (MLLW)
100-YEAR FLOODPLAIN	100 YR	10.0/12.0	13.98/15.98
MAX. ELEVATION OF LAND CAPABLE OF SUPPORTING TIDAL VEGETATION	CJL+1	6.4	10.38
CT COASTAL JURISDICTION LINE	CJL	5.4	9.38
HIGH TIDE LINE	HTL	5.2	9.18
MEAN HIGH WATER LINE	MHW	3.35	7.33
MEAN LOW WATER LINE	MLW	-3.72	0.26
MEAN LOWER LOW WATER LINE	MLLW	-3.98	0

SCALE: SCALE IN FEET 0 20 40 SCALE 1"=40'

DRAWN: T. ADINOLFI

CHECKED: V. ROBBINS

APPROVED: C. BROWN

SIGNATURE BLOCK:

STATE OF CONNECTICUT
DEPARTMENT OF TRANSPORTATION

PROJECT TITLE:
WALK BRIDGE REPLACEMENT OVER THE NORWALK RIVER BRIDGE NO. 04288R/MP 41.5

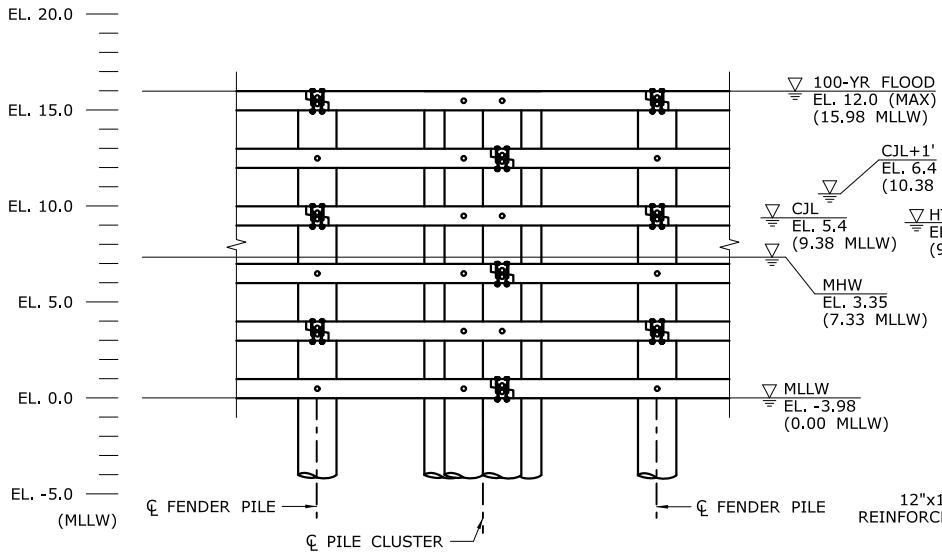
TOWN: **NORWALK**

PROJECT NO.: **0301-0176**

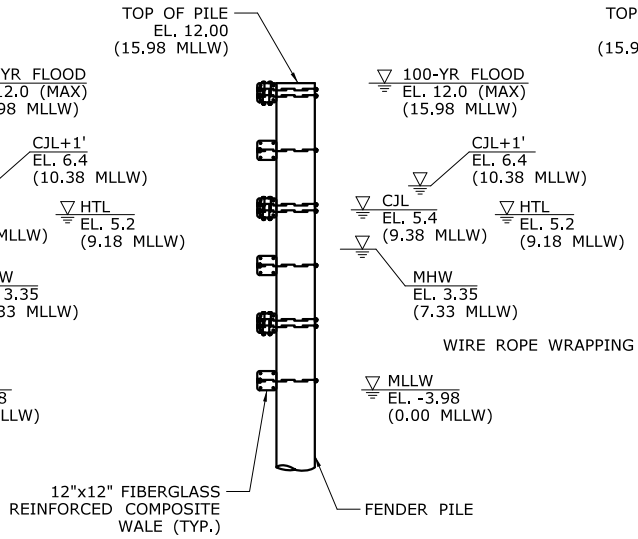
DRAWING TITLE: **ACTIVITY 15 FENDER INSTALLATION (SHEET 4 OF 5)**

DATE: **REV 7-31-20**

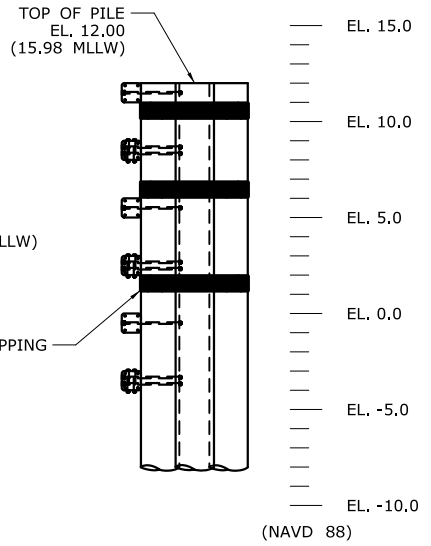
DRAWING NO.: **CA15-4**



TYPICAL INDEPENDENT FENDER SYSTEM ELEVATION



TYPICAL SECTION



TYPICAL PILE CLUSTER ELEVATION

NOTES:

1. VERTICAL DATUM IS NAVD 88. ELEVATIONS TO MLLW TIDAL DATUM ARE SHOWN IN PARENTHESES.
2. THE 100-YEAR FLOOD ELEVATION VARIES THROUGHOUT THE SITE. WITHIN THE RIVER, IT IS DEFINED AS EL. 12 (15.98 MLLW) AND EL. 10 (13.98 MLLW) DOWNSTREAM AND UPSTREAM OF THE BRIDGE, RESPECTIVELY. SEE FLOOD ZONE MAP (DWG. GEN-6) FOR ADDITIONAL INFORMATION.
3. FENDER PILES ARE ANTICIPATED TO BE 36" (MAX.) DIAMETER PIPE PILES.
4. NAVIGATION LIGHTS WILL BE USED TO DEFINE THE LIMITS OF THE FEDERAL NAVIGATION CHANNEL.

ELEVATION TABLE			
DESCRIPTION	CONTOUR	ELEVATION (NAVD88)	ELEVATION (MLLW)
100-YEAR FLOODPLAIN	100 YR	10.0/12.0	13.98/15.98
MAX. ELEVATION OF LAND CAPABLE OF SUPPORTING TIDAL VEGETATION	CJL+1	6.4	10.38
CT COASTAL JURISDICTION LINE	CJL	5.4	9.38
HIGH TIDE LINE	HTL	5.2	9.18
MEAN HIGH WATER LINE	MHW	3.35	7.33
MEAN LOW WATER LINE	MLW	-3.72	0.26
MEAN LOWER LOW WATER LINE	MLLW	-3.98	0

SCALE:
SCALE IN FEET
0 5 10
SCALE 1"=10'

DRAWN: T. ADINOLFI
CHECKED: V. ROBBINS
APPROVED: C. BROWN

SIGNATURE BLOCK:

STATE OF CONNECTICUT
DEPARTMENT OF TRANSPORTATION

PROJECT TITLE:
WALK BRIDGE REPLACEMENT OVER THE NORWALK RIVER BRIDGE NO. 04288R/MP 41.5

TOWN: **NORWALK**
PROJECT NO.: **0301-0176**
DRAWING TITLE: **ACTIVITY 15 FENDER INSTALLATION (SHEET 5 OF 5)**
DATE: **REV 7-31-20**
DRAWING NO.: **CA15-5**

ACTIVITY 16 - WETLAND MITIGATION
INDEX OF DRAWINGS

DRAWING NUMBER	DRAWING TITLE
MIT-001	**DRAWING INDEX**
MIT-002	**MITIGATION INDEX PLAN**
MIT-003	**MITIGATION AREA 1 PHRAGMITES TREATMENT**
MIT-004	**MITIGATION AREA 2 GRADING PLAN**
MIT-005	**MITIGATION AREA 2 GRADING SECTIONS 1**
MIT-006	**MITIGATION AREA 2 GRADING SECTIONS 2**
MIT-007	**MITIGATION AREA 2 PLANTING PLAN**
MIT-008	**MITIGATION AREA 2 PLANTING SECTIONS 1**
MIT-009	**MITIGATION AREA 2 PLANTING SECTIONS 2**
MIT-010	**MITIGATION AREA 3 PHRAGMITES TREATMENT**
MIT-011	**MITIGATION AREA 4 PHRAGMITES TREATMENT**
MIT-012	**MITIGATION AREA 4 PLANTING PLAN**
MIT-013	**MITIGATION AREA 5 PHRAGMITES TREATMENT**
MIT-014	**MITIGATION AREA 5 PLANTING PLAN**
MIT-015	**MITIGATION AREA 6 GRADING PLAN**
MIT-016	**MITIGATION AREA 6 GRADING SECTIONS 1**
MIT-017	**MITIGATION AREA 6 GRADING SECTIONS 2**
MIT-018	**MITIGATION AREA 6 PLANTING PLAN**
MIT-019	**MITIGATION AREA 6 PLANTING SECTIONS 1**
MIT-020	**MITIGATION AREA 6 PLANTING SECTIONS 2**

DATE: 06/26/2019

FOR INFORMATION ONLY
MITIGATION SITES OUTSIDE NAVIGATION CHANNEL

SCALE:	DRAWN: V. ROBBINS CHECKED: T. ADINOLFI APPROVED: C. BROWN	SIGNATURE BLOCK:	STATE OF CONNECTICUT DEPARTMENT OF TRANSPORTATION	PROJECT TITLE: **WALK BRIDGE REPLACEMENT OVER THE NORWALK RIVER BRIDGE NO. 04288R/MP 41.5**	TOWN: **NORWALK** DRAWING TITLE: **ACTIVITY 16 WETLAND MITIGATION (MIT-001)**	PROJECT NO.: **0301-0176** DATE: **12-5-19** DRAWING NO.: **CA16-1**

CONNECTICUT COORDINATE GRID

DANBURY LINE RAILROAD

MITIGATION AREA 2

MITIGATION AREA 3

COASTAL JURISDICTION LINE

COASTAL JURISDICTION LINE +1

THE MARITIME AQUARIUM AT NORWALK

MIT-004/007

MIT-010

PIERS

EBB

FLOOD

NORWALK RIVER

MITIGATION AREA 1

MIT-003

FENDER SYSTEM

MITIGATION AREA 6B

MITIGATION AREA 6A

WASHINGTON STREET

COASTAL JURISDICTION LINE +1

WALK BRIDGE

MEAN LOWER LOW WATER

MEAN LOW WATER

MEAN HIGH WATER

HIGH TIDE LINE

MIT-013/14

MITIGATION AREA 6

MIT-015/018

VEGETATED TIDAL WETLANDS

MITIGATION AREA 4

MIT-011/12

MITIGATION AREA 5

LEGEND:

- PHRAGMITES TREATMENT
- PHRAGMITES TREATMENT AND MINIMAL SHRUB PLANTING (IF NEEDED)
- PHRAGMITES REMOVAL AND SALT MARSH RESTORATION
- RIPRAP REMOVAL AND SALT MARSH RESTORATION
- VEGETATED TIDAL WETLANDS
- MITIGATION AREA BOUNDARY

FOR INFORMATION ONLY
MITIGATION SITES OUTSIDE NAVIGATION CHANNEL

SCALE:
SCALE IN FEET
100 50 0 100
SCALE: 1"=200'

DRAWN: V. ROBBINS
CHECKED: T. ADINOLFI
APPROVED: C. BROWN

SIGNATURE BLOCK:

STATE OF CONNECTICUT
DEPARTMENT OF TRANSPORTATION

PROJECT TITLE:
WALK BRIDGE REPLACEMENT OVER THE NORWALK RIVER BRIDGE NO. 04288R/MP 41.5

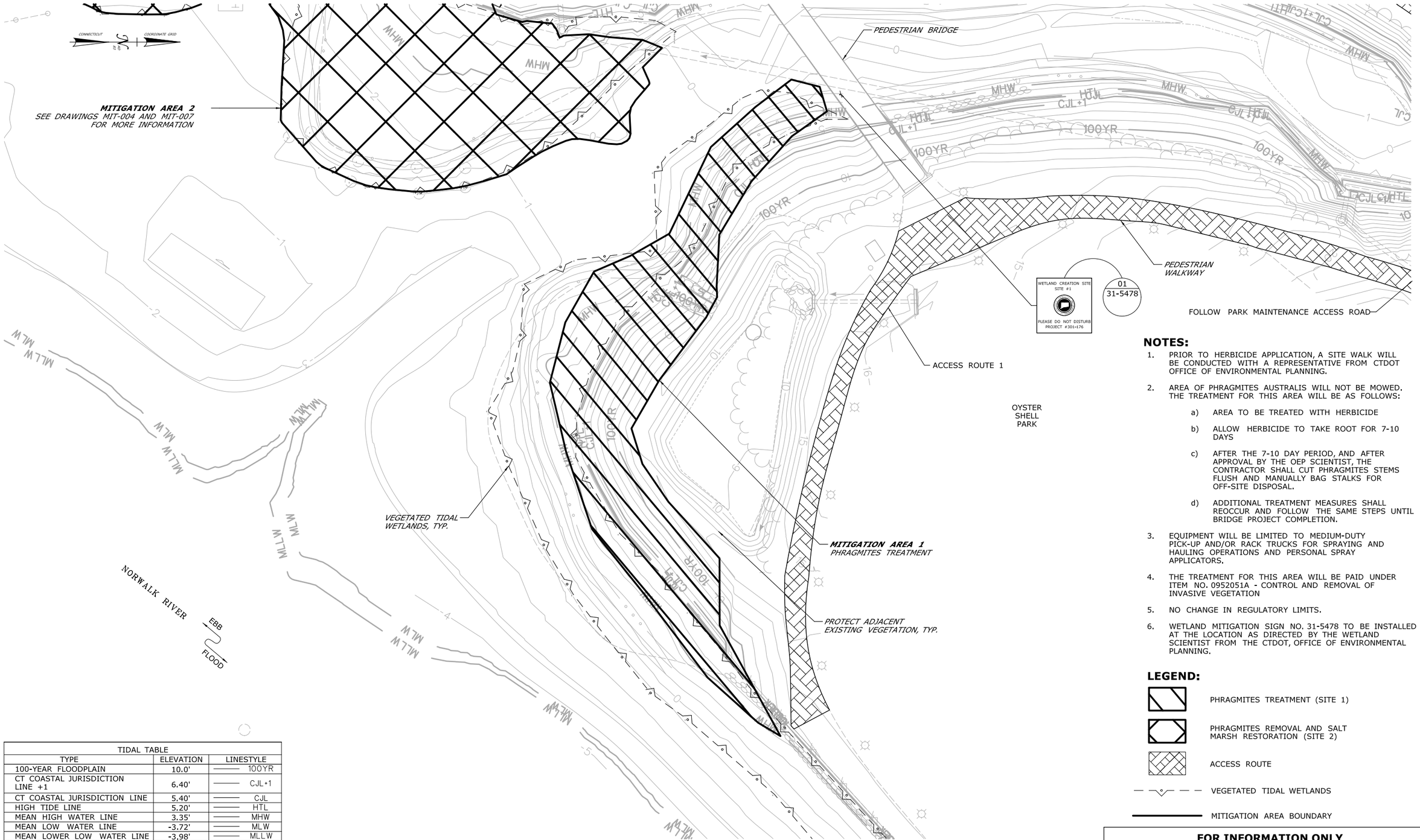
TOWN: **NORWALK**

DRAWING TITLE:
ACTIVITY 16 WETLAND MITIGATION (MIT-002)

PROJECT NO.: **0301-0176**

DATE: **12-5-19**

DRAWING NO.: **CA16-2**



TIDAL TABLE		
TYPE	ELEVATION	LINESTYLE
100-YEAR FLOODPLAIN	10.0'	100YR
CT COASTAL JURISDICTION LINE +1	6.40'	CJL+1
CT COASTAL JURISDICTION LINE	5.40'	CJL
HIGH TIDE LINE	5.20'	HTL
MEAN HIGH WATER LINE	3.35'	MHW
MEAN LOW WATER LINE	-3.72'	MLW
MEAN LOWER LOW WATER LINE	-3.98'	MLLW

NOTES:

1. PRIOR TO HERBICIDE APPLICATION, A SITE WALK WILL BE CONDUCTED WITH A REPRESENTATIVE FROM CTDOT OFFICE OF ENVIRONMENTAL PLANNING.
2. AREA OF PHRAGMITES AUSTRALIS WILL NOT BE MOWED. THE TREATMENT FOR THIS AREA WILL BE AS FOLLOWS:
   a) AREA TO BE TREATED WITH HERBICIDE
   b) ALLOW HERBICIDE TO TAKE ROOT FOR 7-10 DAYS
   c) AFTER THE 7-10 DAY PERIOD, AND AFTER APPROVAL BY THE OEP SCIENTIST, THE CONTRACTOR SHALL CUT PHRAGMITES STEMS FLUSH AND MANUALLY BAG STALKS FOR OFF-SITE DISPOSAL.
   d) ADDITIONAL TREATMENT MEASURES SHALL REOCCUR AND FOLLOW THE SAME STEPS UNTIL BRIDGE PROJECT COMPLETION.
3. EQUIPMENT WILL BE LIMITED TO MEDIUM-DUTY PICK-UP AND/OR RACK TRUCKS FOR SPRAYING AND HAULING OPERATIONS AND PERSONAL SPRAY APPLICATORS.
4. THE TREATMENT FOR THIS AREA WILL BE PAID UNDER ITEM NO. 0952051A - CONTROL AND REMOVAL OF INVASIVE VEGETATION
5. NO CHANGE IN REGULATORY LIMITS.
6. WETLAND MITIGATION SIGN NO. 31-5478 TO BE INSTALLED AT THE LOCATION AS DIRECTED BY THE WETLAND SCIENTIST FROM THE CTDOT, OFFICE OF ENVIRONMENTAL PLANNING.

LEGEND:

- PHRAGMITES TREATMENT (SITE 1)
- PHRAGMITES REMOVAL AND SALT MARSH RESTORATION (SITE 2)
- ACCESS ROUTE
- VEGETATED TIDAL WETLANDS
- MITIGATION AREA BOUNDARY

FOR INFORMATION ONLY
MITIGATION SITES OUTSIDE NAVIGATION CHANNEL

SCALE:
SCALE IN FEET
0 20 40
SCALE 1" = 40'

DRAWN: V. ROBBINS
CHECKED: T. ADINOLFI
APPROVED: C. BROWN

SIGNATURE BLOCK:

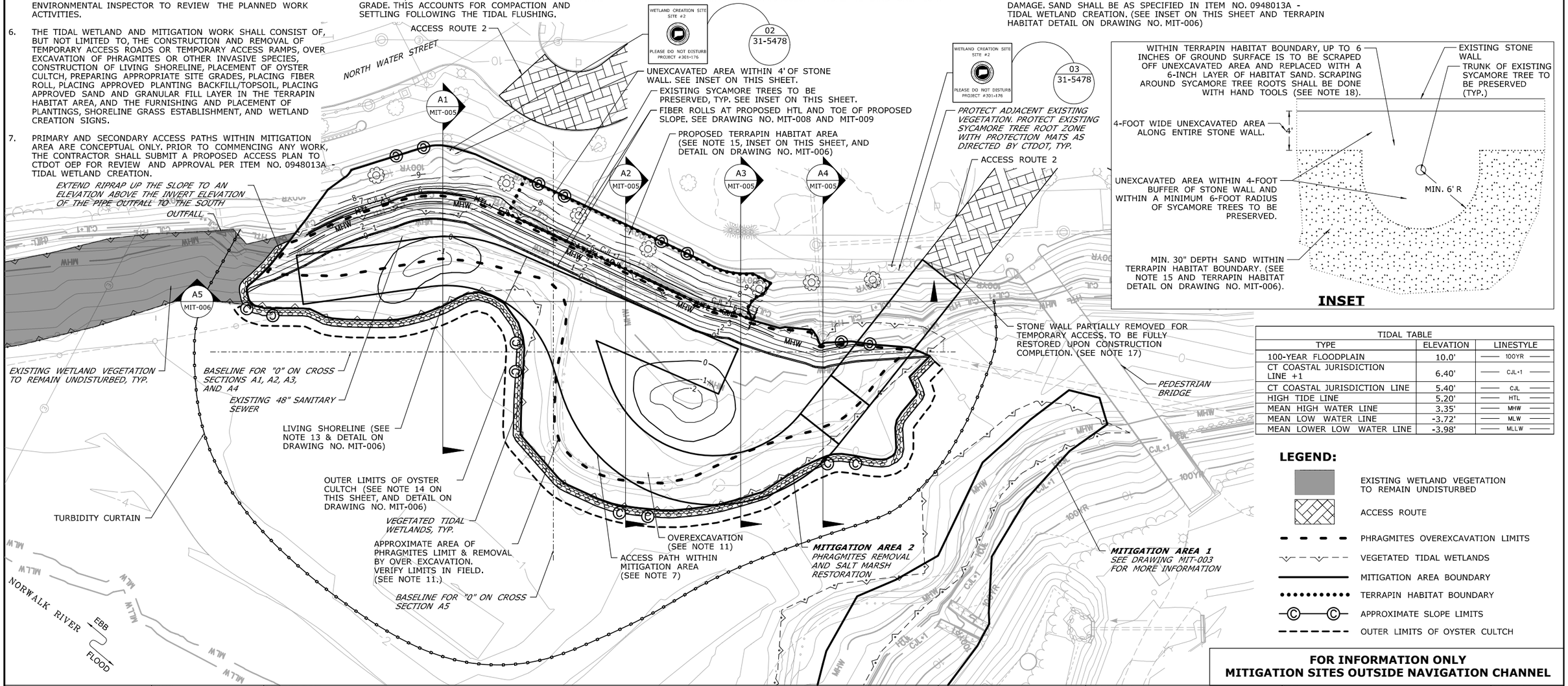
STATE OF CONNECTICUT
DEPARTMENT OF TRANSPORTATION

PROJECT TITLE:
WALK BRIDGE REPLACEMENT OVER THE NORWALK RIVER BRIDGE NO. 04288R/MP 41.5

TOWN: **NORWALK**
PROJECT NO.: **0301-0176**
DRAWING TITLE: **ACTIVITY 16 WETLAND MITIGATION (MIT-003)**
DATE: **12-5-19**
DRAWING NO.: **CA16-3**

NOTES:

1. PRIOR TO COMMENCEMENT OF ANY WORK ASSOCIATED WITH THE MITIGATION AREA, THE CONTRACTOR SHALL SUBMIT TO CTDOT OFFICE OF ENVIRONMENTAL PLANNING (OEP) FOR REVIEW AND APPROVAL, A WORK PLAN THAT INCLUDES A CONSTRUCTION SCHEDULE AND AN OUTLINE OF CONSTRUCTION METHODOLOGIES FOR PERFORMING THE REQUIRED WORK, IN ACCORDANCE WITH ITEM NO. 0948013A - TIDAL WETLAND CREATION, AND IN ACCORDANCE WITH OTHER ITEMS LISTED BELOW.
2. PRIOR TO ANY EARTH WORK, THE SITE WILL BE TREATED FOR INVASIVE SPECIES UNDER ITEM NO. 0952051A - CONTROL AND REMOVAL OF INVASIVE VEGETATION. EXCAVATION SHALL COMMENCE FOLLOWING 10 DAYS OF HERBICIDE SET.
3. EXCAVATION TO PERFORM GRADING TO BE COMPLETED IN ACCORDANCE WITH ITEM NO. 0202000 - EARTH EXCAVATION. THE FORMATION OF SUBGRADE, FINAL GRADE, AND PLACEMENT OF BACKFILL AND SUBSTRATE TO BE COMPLETED IN ACCORDANCE WITH ITEM NO. 0948013A - TIDAL WETLAND CREATION.
4. SEE DRAWING NO. MIT-007 FOR LIMITS OF SHORELINE GRASS ESTABLISHMENT AND PLANTINGS IN TIDAL MITIGATION AREA.
5. A WETLAND SCIENTIST FROM CTDOT, OEP WILL BE ON-SITE TO MONITOR AND DIRECT CONSTRUCTION OF THE TIDAL MITIGATION AREA. AT LEAST 10 DAYS PRIOR TO THE COMMENCEMENT OF CONSTRUCTION, THE CONTRACTOR SHALL ARRANGE FOR A MEETING WITH THE OEP WETLAND SCIENTIST OR ENVIRONMENTAL INSPECTOR TO REVIEW THE PLANNED WORK ACTIVITIES.
6. THE TIDAL WETLAND AND MITIGATION WORK SHALL CONSIST OF, BUT NOT LIMITED TO, THE CONSTRUCTION AND REMOVAL OF TEMPORARY ACCESS ROADS OR TEMPORARY ACCESS RAMPS, OVER EXCAVATION OF PHRAGMITES OR OTHER INVASIVE SPECIES, CONSTRUCTION OF LIVING SHORELINE, PLACEMENT OF OYSTER CULTCH, PREPARING APPROPRIATE SITE GRADES, PLACING FIBER ROLL, PLACING APPROVED PLANTING BACKFILL/TOPSOIL, PLACING APPROVED SAND AND GRANULAR FILL LAYER IN THE TERRAPIN HABITAT AREA, AND THE FURNISHING AND PLACEMENT OF PLANTINGS, SHORELINE GRASS ESTABLISHMENT, AND WETLAND CREATION SIGNS.
7. PRIMARY AND SECONDARY ACCESS PATHS WITHIN MITIGATION AREA ARE CONCEPTUAL ONLY. PRIOR TO COMMENCING ANY WORK, THE CONTRACTOR SHALL SUBMIT A PROPOSED ACCESS PLAN TO CTDOT OEP FOR REVIEW AND APPROVAL PER ITEM NO. 0948013A - TIDAL WETLAND CREATION.
8. ALL EXCAVATED MATERIAL STRIPPED FROM THE TIDAL MITIGATION AREA SHALL NOT BE REUSED BUT SHALL BE REMOVED FROM THE AREA AND PROPERLY DISPOSED OF AT AN APPROVED UPLAND LOCATION.
9. AFTER THE EXCAVATION IS COMPLETED, THE LIVING SHORELINE SHALL BE INSTALLED IN THE LOCATION SHOWN ON THE PLANS. THE TIDAL MITIGATION AREA SHALL BE BACKFILLED TO PROPOSED SUBGRADE WHERE NEEDED. THE FINAL GRADE SHALL CONSIST OF PLANTING/TOPSOIL EXCEPT FOR THE TERRAPIN HABITAT AREA WHICH SHALL CONSIST OF SAND PER CTDOT OEP. COMPACTION SHALL BE PERFORMED ON BACKFILL AND TOPSOIL AS DIRECTED BY THE CTDOT OEP WETLAND SCIENTIST.
10. WETLAND MITIGATION SIGN NO. 31-5478 TO BE INSTALLED AT THE LOCATION AS DIRECTED BY THE WETLAND SCIENTIST FROM THE CTDOT, OEP.
11. OVEREXCAVATION OF PHRAGMITES AREA TO BE A MINIMUM OF 3'-0" BELOW EXISTING GRADE OR TO A LESSER DEPTH AT WHICH THE ENTIRE ROOT/RHIZOME LAYER IS REMOVED, AS DETERMINED BY THE WETLAND SCIENTIST.
12. A 14" DEEP LAYER OF WETLAND PLANTING SOIL/TOPSOIL SHALL BE PLACED ON THE PROPOSED SUBGRADE, WHERE NEEDED TO MEET PROPOSED FINAL GRADE. THIS ACCOUNTS FOR COMPACTION AND SETTLING FOLLOWING THE TIDAL FLUSHING.
12. (CONTINUED):
IN AREAS NOT REQUIRING OVEREXCAVATION, BETWEEN THE WATERWARD PHRAGMITES EDGE AND THE LIVING SHORELINE RIPRAP, PLANTING SOIL/TOPSOIL SHALL BE PLACED ON THE UNEXCAVATED GRADE, WHERE NEEDED TO MEET PROPOSED FINAL GRADE, AND COMPACTED. IF THE EXCAVATION FOR PHRAGMITES REMOVAL, OR OTHER INVASIVE SPECIES REMOVAL MEETS THE PROPOSED FINAL GRADE ON SUITABLE SOIL, NO OVEREXCAVATION FOR TOPSOIL PLACEMENT IS NEEDED.
13. THE LIVING SHORELINE SHALL CONSIST OF 24" TO 30" DIAMETER STANDARD RIPRAP, AS SPECIFIED IN ITEM NO. 0948013A - TIDAL WETLAND CREATION, AND PLACED UNDER THE DIRECTION OF A WETLAND SCIENTIST FROM CTDOT OEP. THE ROCK RIPRAP SHALL BE PLACED IN A CONFIGURATION THAT IS A MINIMUM WIDTH OF 3'-0" AT THE BASE AND SHALL BE EMBEDDED IN EXISTING SOIL, OR IN PLACED TOPSOIL, IN A SHALLOW TRENCH 6" TO 12" MAXIMUM DEPTH, OR PRESSED INTO THE SOIL TO A DEPTH OF 6" TO 12" MAXIMUM, TO PLACE THE TOP OF THE RIPRAP AT THE PROPOSED FINISHED GRADE ELEVATION OR SLIGHTLY ABOVE PROPOSED FINISHED GRADE. ON THE LANDWARD SIDE OF THE RIPRAP, VOIDS SHALL BE FILLED WITH GRANULAR MATERIAL TO PREVENT THE TOPSOIL FROM WASHING THROUGH THE VOIDS. GRANULAR FILL SHALL BE AS SPECIFIED IN ITEM NO. 0948013A - TIDAL WETLAND CREATION.
14. OYSTER CULTCH SHALL BE PLACED ON THE BOTTOM 1/4 OF THE WATERWARD SIDE OF THE LIVING SHORELINE RIPRAP AND A 6" DEEP LAYER SHALL EXTEND OUT 4' TO 5' FROM BASE, ON EXISTING GRADE, AS SPECIFIED IN ITEM NO. 0948013A - TIDAL WETLAND CREATION.
15. THE TERRAPIN HABITAT AREA SHALL CONSIST OF A MINIMUM 30" DEEP LAYER OF SAND ON TOP OF A 6" DEEP LAYER OF GRANULAR FILL ON PROPOSED SUBGRADE AS SPECIFIED IN ITEM NO. 0948013A - TIDAL WETLAND CREATION.
16. EQUIPMENT WILL NOT BE PERMITTED ON FINAL GRADE WITHIN THE MITIGATION AREA.
17. ACCESS TO THE MITIGATION SITE AND ASSOCIATED CONSTRUCTION ACTIVITIES AND STAGING WILL RESULT IN TEMPORARY IMPACTS AND TEMPORARY OCCUPANCY OF THE PARK, WITH POSSIBLE FULL CLOSURE OR PARTIAL CLOSURE. WHEN CONSTRUCTION IS COMPLETE, THE PARK FACILITIES, AMENITIES, AND SURFACE MATERIALS SHALL BE FULLY RESTORED TO ORIGINAL PRE-CONSTRUCTION CONDITIONS. CTDOT HAS CONSULTED WITH THE CITY AND WILL CONTINUE TO COORDINATE TEMPORARY ACCESS AND CONSTRUCTION ACTIVITIES WITH THE CITY PRIOR TO COMMENCEMENT OF CONSTRUCTION.
18. WITHIN A 4-FOOT BUFFER FROM THE EAST SIDE OF THE EXISTING STONE WALL AND WITHIN A MINIMUM 6-FOOT RADIUS FROM THE SYCAMORE TREES TO BE PRESERVED, THE AREA SHALL REMAIN UNEXCAVATED AND SELECTIVE CLEARING AND INVASIVE SPECIES CONTROL MEASURES SHALL BE CONDUCTED UNDER THE DIRECTION OF AN OEP ENVIRONMENTAL SCIENTIST. IN THESE UNEXCAVATED AREAS THAT ARE LOCATED WITHIN THE TERRAPIN HABITAT BOUNDARY, UP TO 6 INCHES OF THE GROUND SURFACE SHALL BE SCRAPED OFF AND REPLACED WITH A 6-INCH LAYER OF TURTLE NESTING BEACH SAND. SCRAPING AROUND SYCAMORE TREE ROOTS THAT ARE TO BE PRESERVED SHALL BE DONE WITH HAND TOOLS TO AVOID ROOT DAMAGE. SAND SHALL BE AS SPECIFIED IN ITEM NO. 0948013A - TIDAL WETLAND CREATION. (SEE INSET ON THIS SHEET AND TERRAPIN HABITAT DETAIL ON DRAWING NO. MIT-006)



INSET

TIDAL TABLE		
TYPE	ELEVATION	LINESTYLE
100-YEAR FLOODPLAIN	10.0'	100YR
CT COASTAL JURISDICTION LINE +1	6.40'	CJL+1
CT COASTAL JURISDICTION LINE	5.40'	CJL
HIGH TIDE LINE	5.20'	HTL
MEAN HIGH WATER LINE	3.35'	MHW
MEAN LOW WATER LINE	-3.72'	MLW
MEAN LOWER LOW WATER LINE	-3.98'	MLLW

LEGEND:

- EXISTING WETLAND VEGETATION TO REMAIN UNDISTURBED
- ACCESS ROUTE
- PHRAGMITES OVEREXCAVATION LIMITS
- VEGETATED TIDAL WETLANDS
- MITIGATION AREA BOUNDARY
- TERRAPIN HABITAT BOUNDARY
- APPROXIMATE SLOPE LIMITS
- OUTER LIMITS OF OYSTER CULTCH

FOR INFORMATION ONLY
MITIGATION SITES OUTSIDE NAVIGATION CHANNEL

SCALE: SCALE IN FEET 0 20 40 — SCALE 1" = 40'

DRAWN: V. ROBBINS
CHECKED: T. ADINOLFI
APPROVED: C. BROWN

SIGNATURE BLOCK:

STATE OF CONNECTICUT
DEPARTMENT OF TRANSPORTATION

PROJECT TITLE:
WALK BRIDGE REPLACEMENT OVER THE NORWALK RIVER BRIDGE NO. 04288R/MP 41.5

TOWN: **NORWALK**
PROJECT NO.: **0301-0176**
DRAWING TITLE: **ACTIVITY 16 WETLAND MITIGATION (MIT-004)**
DATE: **12-5-19**
DRAWING NO.: **CA16-4**

NOTES:

1. SEE SECTIONS FOR TOPSOIL DEPTHS.

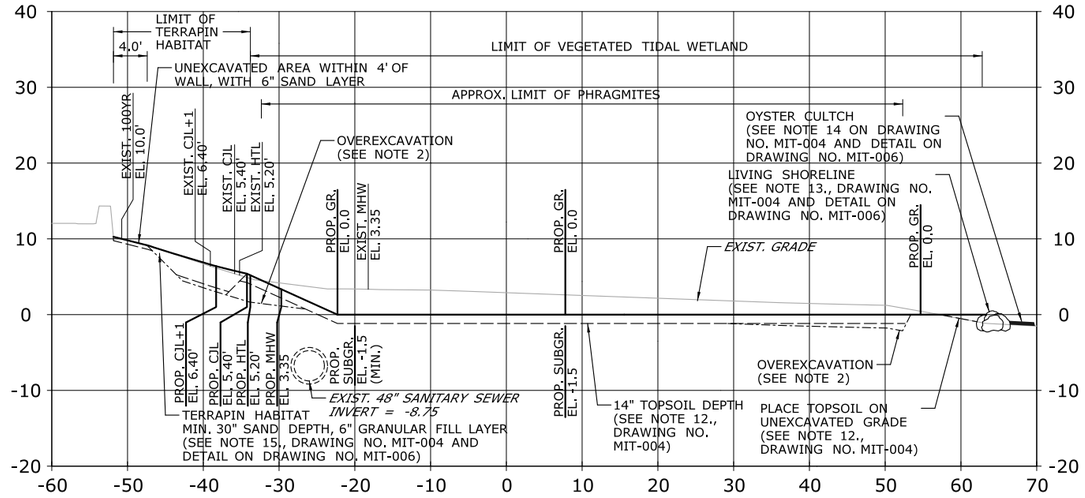
2. OVEREXCAVATION TO BE SEQUENCED AS FOLLOWS:

   i. EXCAVATE PHRAGMITES AREA TO A MINIMUM OF 3'-0" BELOW EXISTING GRADE OR TO A LESSER DEPTH AT WHICH THE ENTIRE ROOT/ RHIZOME LAYER IS REMOVED, AS DETERMINED BY THE OEP WETLAND SCIENTIST.

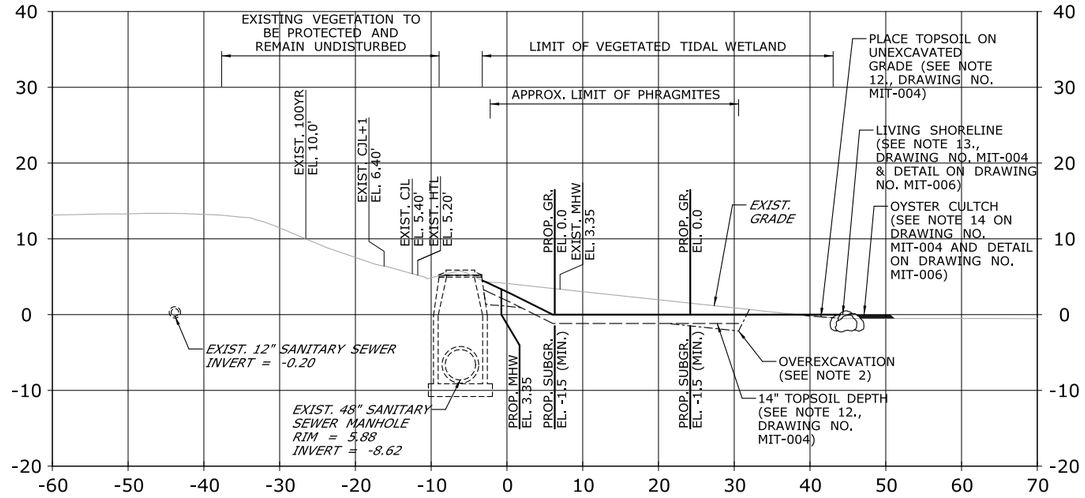
   ii. GRADE MITIGATION AREA 2 TO MATCH PROPOSED GRADE.

LEGEND:

CJL+1 = CT COASTAL JURISDICTION LINE +1
CJL = CT COASTAL JURISDICTION LINE
HTL = HIGH TIDE LINE
MHW = MEAN HIGH WATER LINE
EL = ELEVATION
EXIST. = EXISTING
PROP. = PROPOSED
YR = YEAR
GR. = GRADE
SUBGR. = SUBGRADE
MIN. = MINIMUM
MAX. = MAXIMUM



SECTION A2



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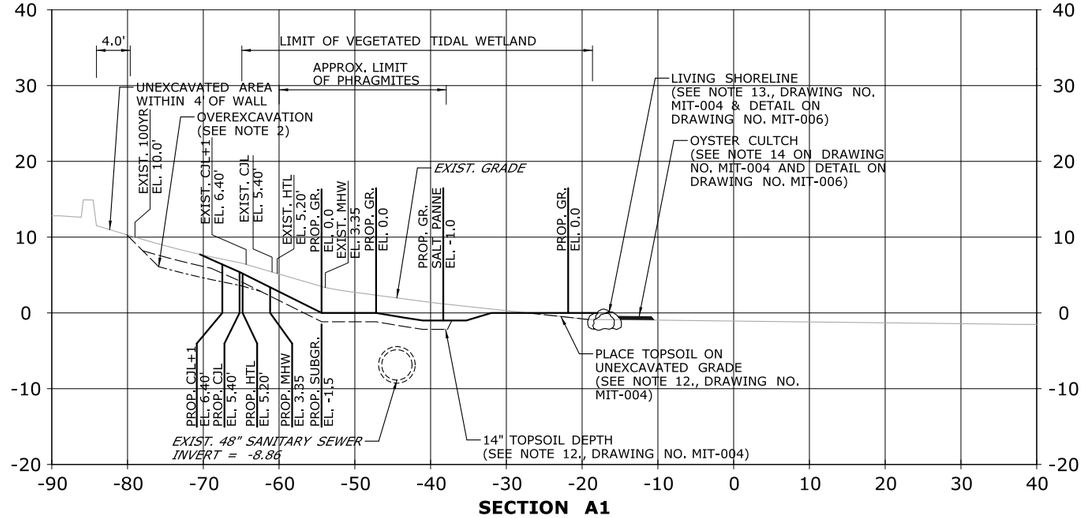
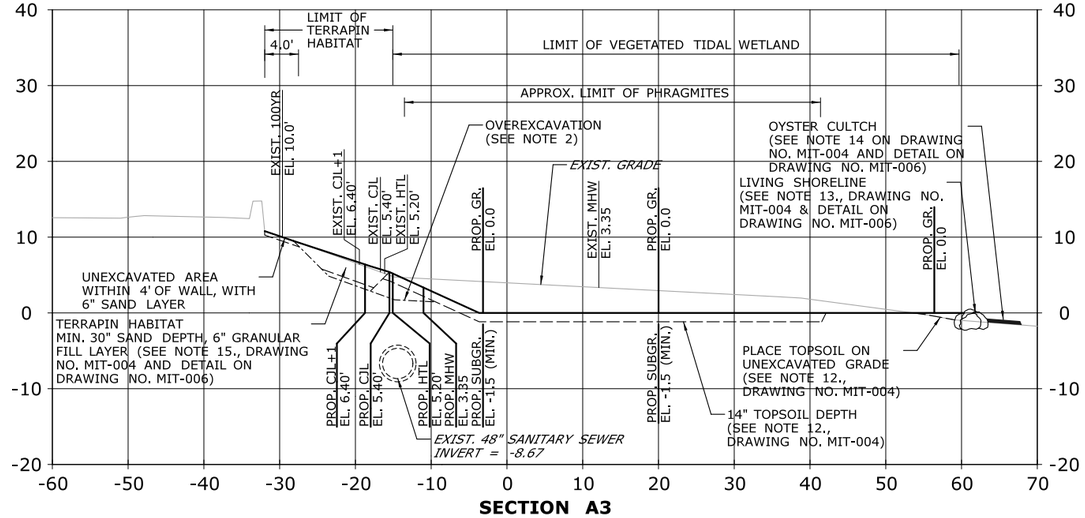


SECTION A1



SECTION A3

FOR INFORMATION ONLY
MITIGATION SITES OUTSIDE NAVIGATION CHANNEL

SCALE: SCALE IN FEET (0, 10, 20) SCALE 1" = 20'	DRAWN: V. ROBBINS CHECKED: T. ADINOLFI APPROVED: C. BROWN	SIGNATURE BLOCK:	STATE OF CONNECTICUT DEPARTMENT OF TRANSPORTATION	PROJECT TITLE: WALK BRIDGE REPLACEMENT OVER THE NORWALK RIVER BRIDGE NO. 04288R/MP 41.5	TOWN: NORWALK DRAWING TITLE: ACTIVITY 16 WETLAND MITIGATION (MIT-005)	PROJECT NO.: 0301-0176 DATE: 12-5-19 DRAWING NO.: CA16-5

NOTES:

1. SEE SECTIONS FOR TOPSOIL DEPTHS.

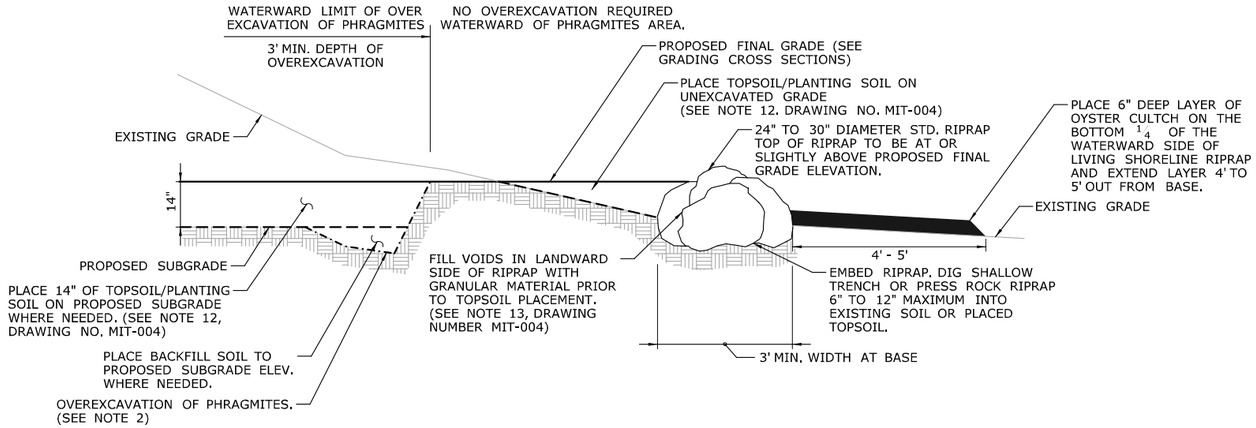
2. OVEREXCAVATION TO BE SEQUENCED AS FOLLOWS:

   i. EXCAVATE PHRAGMITES AREA TO A MINIMUM OF 3'-0" BELOW EXISTING GRADE OR TO A LESSER DEPTH AT WHICH THE ENTIRE ROOT/RHIZOME LAYER IS REMOVED, AS DETERMINED BY THE OEP WETLAND SCIENTIST.

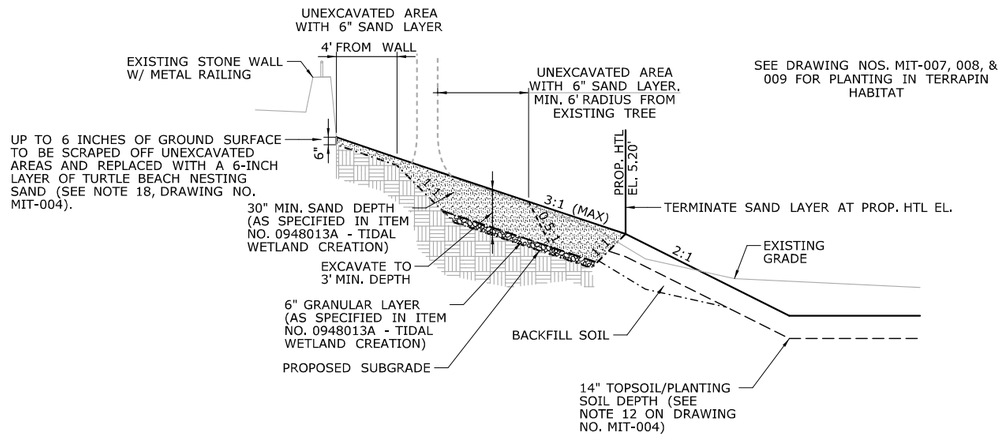
   ii. GRADE MITIGATION AREA 2 TO MATCH PROPOSED GRADE.

LEGEND:

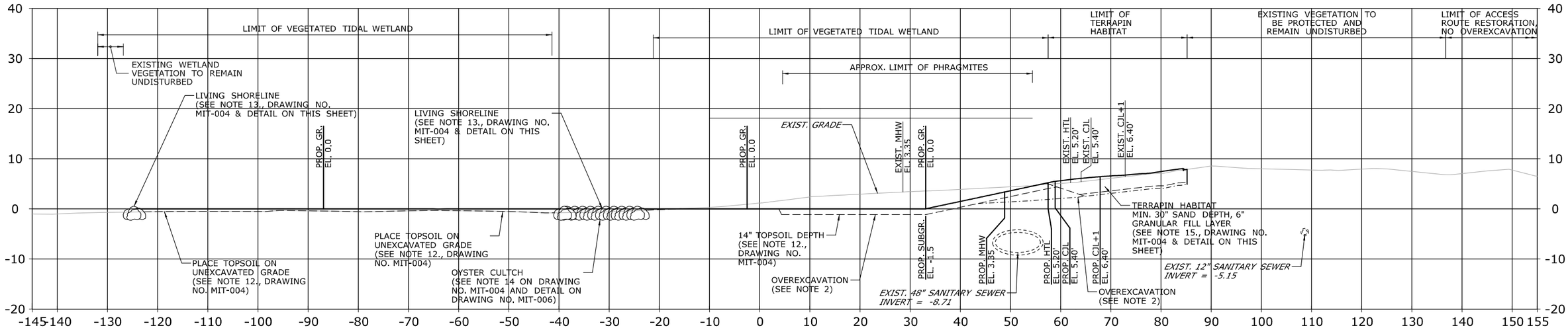
CJL+1 = CT COASTAL JURISDICTION LINE +1
CJL = CT COASTAL JURISDICTION LINE
HTL = HIGH TIDE LINE
MHW = MEAN HIGH WATER LINE
EL = ELEVATION
EXIST. = EXISTING
PROP. = PROPOSED
YR = YEAR
GR. = GRADE
SUBGR. = SUBGRADE
MIN. = MINIMUM
MAX. = MAXIMUM



LIVING SHORELINE DETAIL



TERRAPIN HABITAT DETAIL



SECTION A5

FOR INFORMATION ONLY
MITIGATION SITES OUTSIDE NAVIGATION CHANNEL

SCALE: SCALE IN FEET 0 10 20 SCALE 1" = 20'	DRAWN: V. ROBBINS CHECKED: T. ADINOLFI APPROVED: C. BROWN	SIGNATURE BLOCK:	STATE OF CONNECTICUT DEPARTMENT OF TRANSPORTATION	PROJECT TITLE: WALK BRIDGE REPLACEMENT OVER THE NORWALK RIVER BRIDGE NO. 04288R/MP 41.5	TOWN: NORWALK DRAWING TITLE: ACTIVITY 16 WETLAND MITIGATION (MIT-006)	PROJECT NO.: 0301-0176 DATE: 12-5-19 DRAWING NO.: CA16-6

NOTES:

1. SLOPE SEEDING AREA MIX BASED ON ITEM NO. 0950202A - SHORELINE GRASS ESTABLISHMENT.

2. BEFORE ANY WORK IS TO PROCEED IN THE WETLAND MITIGATION AREAS THE CONTRACTOR SHALL ARRANGE THROUGH THE ENGINEER FOR A MEETING WITH AN ENVIRONMENTAL INSPECTOR FROM THE CONNDOT OFFICE OF ENVIRONMENTAL PLANNING (CTDOT OEP). THIS MEETING WILL BE SCHEDULED AT LEAST 10 DAYS PRIOR TO COMMENCEMENT OF WORK ACTIVITY DESCRIBED IN THE SPECIAL PROVISION "TIDAL WETLAND CREATION".

3. REFER TO THE WETLAND MITIGATION AREA PLANS, DRAWING NO. MIT-004 FOR PROPOSED GRADING IN THE WETLAND CREATION SITE.

4. AFTER COMPLETION OF FINAL GRADE, A 7-14 DAY TIDAL FLOW CYCLE SHALL OCCUR PRIOR TO PLANTING. PLANTING IN THE WETLAND CREATION SITES SHALL BE DONE BETWEEN APRIL 15 AND OCTOBER 15.

5. SEEDING FOR SHORELINE GRASS ESTABLISHMENT SHALL COMMENCE UPON COMPLETION OF GRADING AND PLACEMENT OF PLANTING SUBSTRATE/TOPSOIL, AND AFTER INITIAL INSTALLATION OF ALL PLANTS. THE GRADING AND SEEDING MUST BE PERFORMED WITHIN THE SAME CONSTRUCTION SEASON WITH NO SCHEDULED INACTIVE PERIOD OF MORE THAN 10 WORKDAYS. SEED SHALL BE APPLIED BY BROADCAST SPREADING.

6. AN ENVIRONMENTAL INSPECTOR FROM THE CTDOT OEP SHALL INSPECT THE WETLAND CREATION SITES PRIOR TO PLANTING TO DETERMINE THE SITES ARE SUITABLE FOR PLANTING. THE ENVIRONMENTAL INSPECTOR MAY MODIFY THE PLANT LAYOUT FROM THE PLANTING PLAN IF AS-BUILT CONDITIONS POSE A THREAT TO THE SURVIVAL OF PLANTINGS.

7. AUGER OR DIG TO MAKE PLANTING HOLES FOR SHRUBS, AND TRANSPLANT. DO NOT REMOVE PLANTS FROM CONTAINERS UNTIL IMMEDIATELY BEFORE PLANTING. SEPARATE ANY POT-BOUND OR CRAMPED ROOTS AND SPREAD THEM WHEN PLACING THE PLANTS. MACHINERY WILL NOT BE ALLOWED WITHIN THE MITIGATION SITE AT ANY TIME FOR PLANTING.

8. PAYMENT FOR THE WORK OF CONSTRUCTING WETLAND MITIGATION AREAS WILL BE MADE UNDER THE FOLLOWING ITEMS:

   DISPOSAL OF DEBRIS WILL BE PAID UNDER ITEM #0101135A - DISPOSAL OF DEBRIS.

   EXCAVATION TO PERFORM GRADING WILL BE PAID UNDER ITEM #0202000 - EARTH EXCAVATION.

   FURNISHING, PLACING, MAINTAINING AND REMOVING SEDIMENTATION CONTROL SYSTEMS WILL BE PAID UNDER ITEM #0219001 - SEDIMENTATION CONTROL SYSTEM.

   REMOVAL OF INVASIVE PLANT SPECIES WILL BE PAID UNDER #0952051A - CONTROL AND REMOVAL OF INVASIVE VEGETATION.

8. (CONTINUED):

   FORMATION OF SUBGRADE IN WETLAND CREATION SITES AND TERRAPIN HABITAT AREA, PROVIDING AND PLACING PLANTING SUBSTRATE/TOPSOIL, PROVIDING AND PLACING SAND AND GRANULAR FILL IN THE TERRAPIN HABITAT AREA, FURNISHING AND PLACING RIPRAP AND GRANULAR FILL FOR THE LIVING SHORELINE, PLACEMENT OF OYSTER CULTCH AND FINISH GRADING WILL BE PAID UNDER ITEM #0948013A - TIDAL WETLAND CREATION.

   FURNISHING, PLACING AND ESTABLISHING SHORELINE GRASS WILL BE PAID UNDER ITEM #0950202A - SHORELINE GRASS ESTABLISHMENT.

   FURNISHING AND PLACING SHRUBS AND HERBACEOUS PLANTINGS IN THE WETLAND MITIGATION AREAS WILL BE PAID UNDER ITEM #0949875A - WETLAND PLANTINGS. REPLACEMENT OF PLANTINGS IN MITIGATION AREA 2 SHALL BE INCLUDED IN THIS ITEM.

   FIBER ROLL SHALL BE PAID FOR UNDER ITEM #0949315A - FIBER ROLL.

   THE COST OF INSTALLING WETLAND CREATION SIGNS (31-5478) WILL BE PAID FOR UNDER ITEM #1208932A - SIGN FACE - SHEET ALUMINUM (TYPE IV RETROREFLECTIVE SHEETING).

CONNECTICUT — COORDINATE GRID

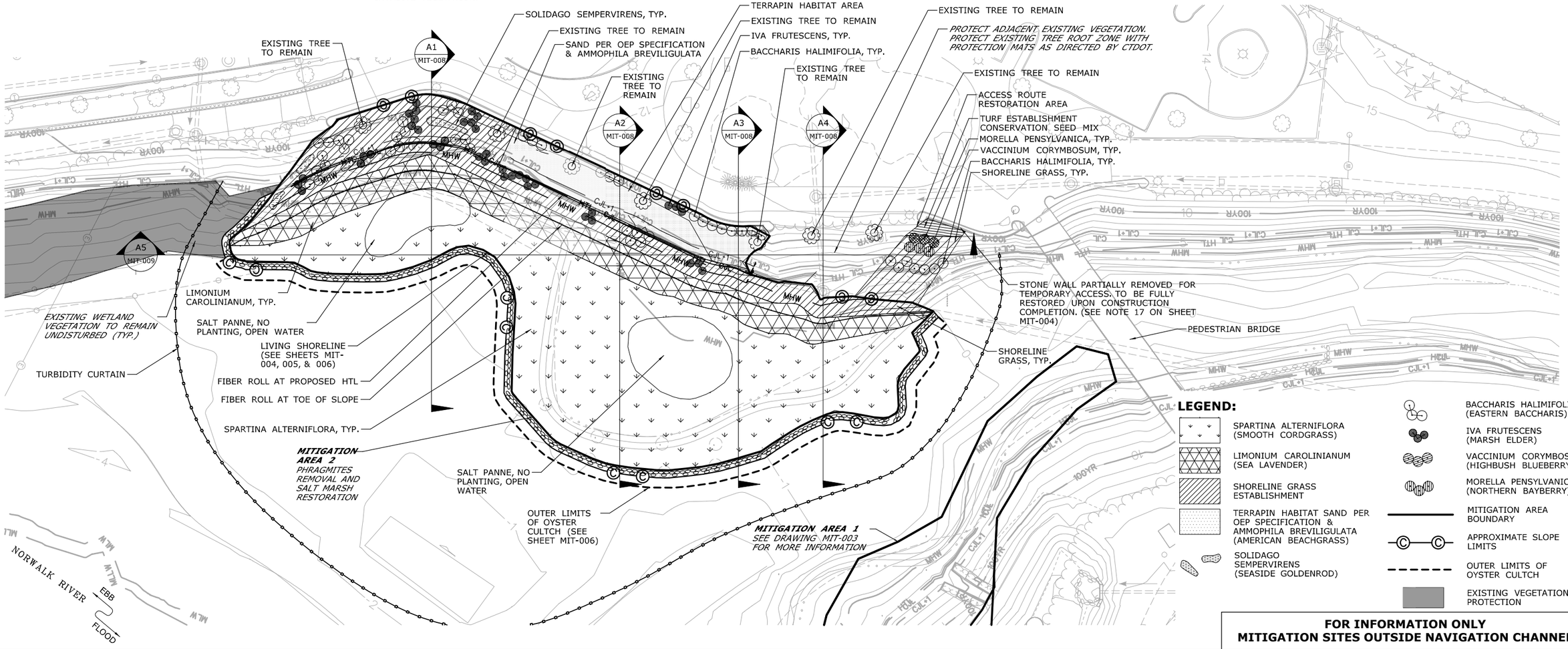
PLANTING SCHEDULE

CODE	QTY.	SCIENTIFIC NAME	COMMON NAME	SIZE	SPACING	NOTES
SA	4,666	SPARTINA ALTERNIFLORA	SMOOTH CORDGRASS	PLUG	18" O.C.	
LC	1,600	LIMONIUM CAROLINIANUM	SEA LAVENDER	PLUG	18" O.C.	
BH	47	BACCHARIS HALIMIFOLIA	EASTERN BACCHARIS	2 GAL.	48" O.C.	
IF	39	IVA FRUTESCENS	MARSH ELDER	2 GAL.	36" O.C.	
SS	95	SOLIDAGO SEMPERVIRENS	SEASIDE GOLDENROD	1 GAL.	12" O.C.	
AB	920	AMMOPHILA BREVILIGULATA	AMERICAN BEACHGRASS	PLUG	18" O.C.	
MP	3	MORELLA PENSYLVANICA	NORTHERN BAYBERRY	2 GAL.	48" O.C.	2 FEMALE PLANTS NEAR PATH, 1 MALE PLANT BEHIND
VC	3	VACCINIUM CORYMBOSUM	HIGHBUSH BLUEBERRY	2 GAL.	48" O.C.	

NOTES: GAL. = GALLON; O.C. = ON CENTER

TIDAL TABLE

TYPE	ELEVATION	LINESTYLE
100-YEAR FLOODPLAIN	10.0'	100YR
CT COASTAL JURISDICTION LINE +1	6.40'	CJL+1
CT COASTAL JURISDICTION LINE	5.40'	CJL
HIGH TIDE LINE	5.20'	HTL
MEAN HIGH WATER LINE	3.35'	MHW
MEAN LOW WATER LINE	-3.72'	MLW
MEAN LOWER LOW WATER LINE	-3.98'	MLLW



FOR INFORMATION ONLY
MITIGATION SITES OUTSIDE NAVIGATION CHANNEL

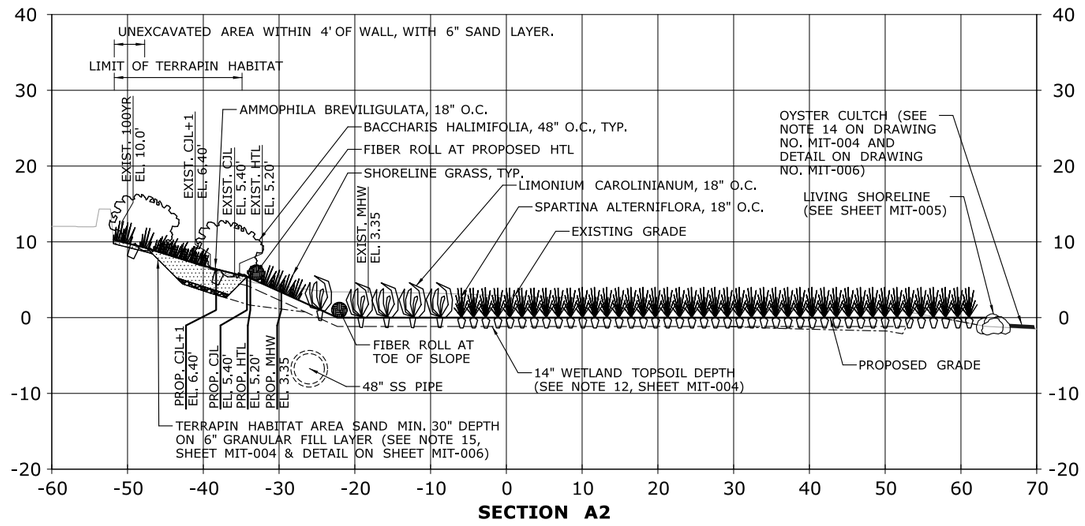
SCALE: SCALE IN FEET 0 20 40 SCALE 1" = 40'	DRAWN: V. ROBBINS CHECKED: T. ADINOLFI APPROVED: C. BROWN	SIGNATURE BLOCK:	STATE OF CONNECTICUT DEPARTMENT OF TRANSPORTATION	PROJECT TITLE: WALK BRIDGE REPLACEMENT OVER THE NORWALK RIVER BRIDGE NO. 04288R/MP 41.5	TOWN: NORWALK DRAWING TITLE: ACTIVITY 16 WETLAND MITIGATION (MIT-007)	PROJECT NO.: 0301-0176 DATE: 12-5-19 DRAWING NO.: CA16-7

NOTES:

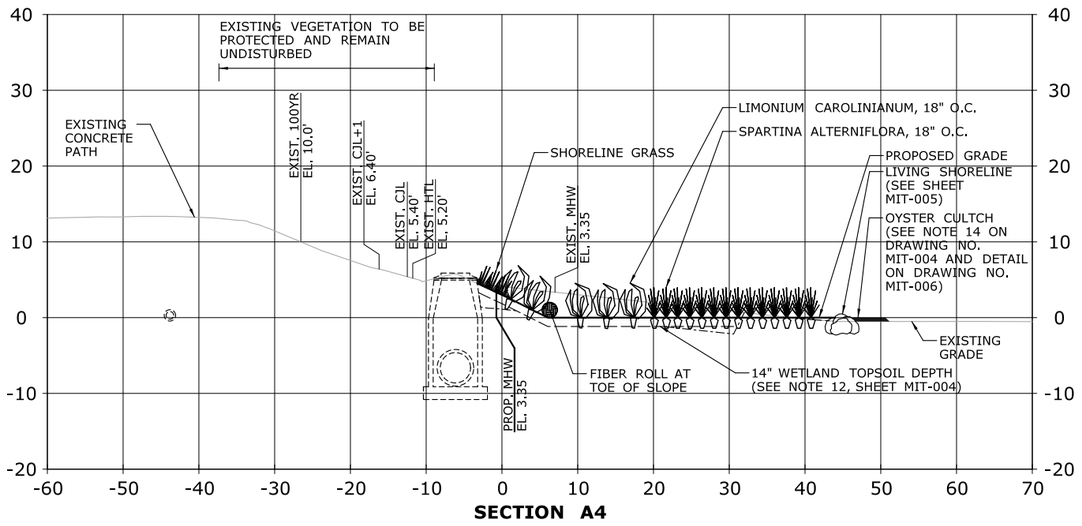
1. SEE MIT-007 MITIGATION AREA 2 PLANTING PLAN FOR LAYOUT OF IVA FRUTESCENS, BACCHARIS HALIMIFOLIA, SPARTINA ALTERNIFLORA, LIMONIUM CAROLINIANUM AND SOLIDAGO SEMPERVIRENS.
2. SEE GRADING DRAWING (MIT-004) AND SECTIONS (MIT-005 & 006) FOR OVEREXCAVATION DEPTHS AND LIMITS.
3. SEE GRADING DRAWING (MIT-004) FOR SECTION BASELINE.

LEGEND:

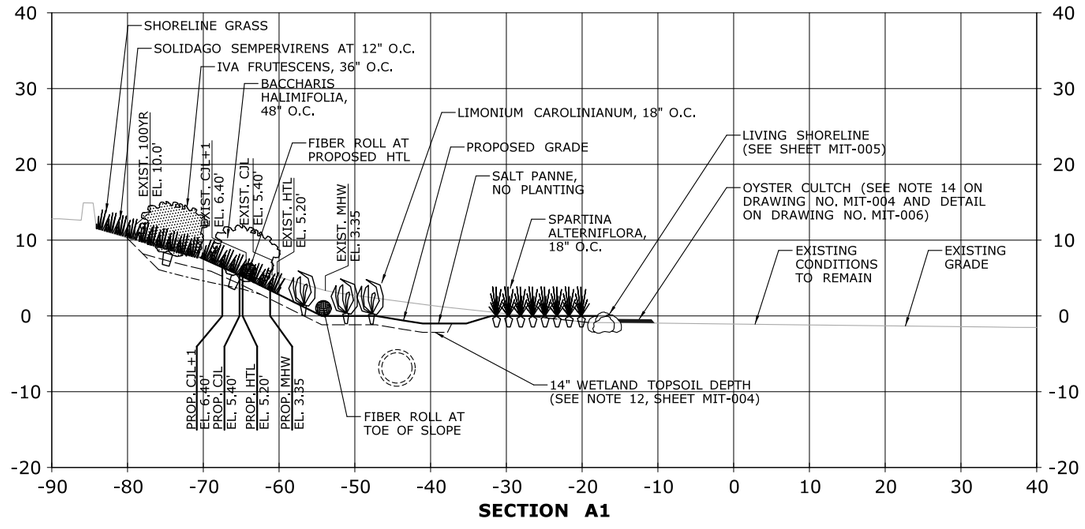
CJL+1= CT COASTAL JURISDICTION LINE +1
CJL = CT COSTAL JURISDICTION LINE
HTL = HIGH TIDE LINE
MHW = MEAN HIGH WATER LINE
EL = ELEVATION
O.C. = ON CENTER
YR = YEAR



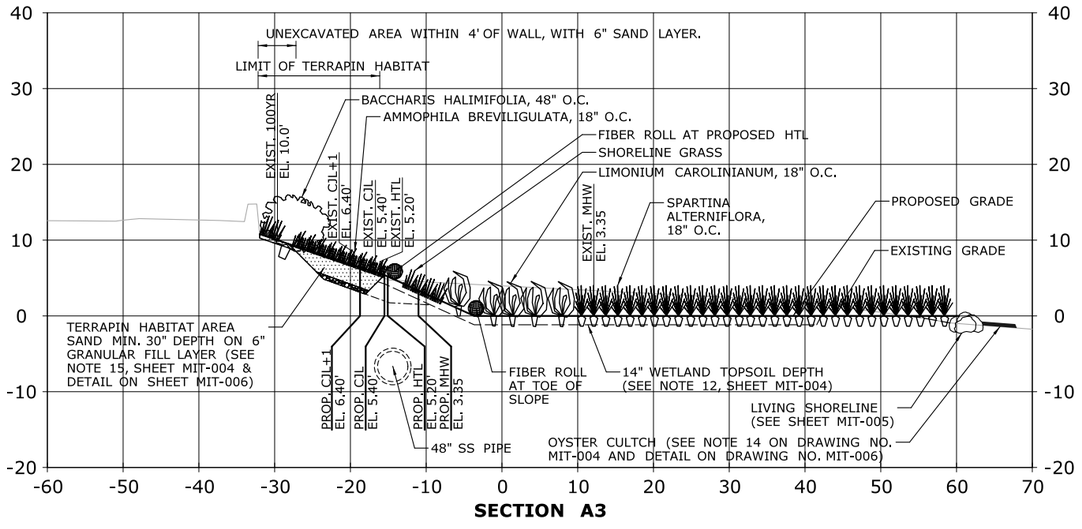
SECTION A2



SECTION A4



SECTION A1



SECTION A3

FOR INFORMATION ONLY
MITIGATION SITES OUTSIDE NAVIGATION CHANNEL

SCALE:
SCALE IN FEET
0 10 20
SCALE 1" = 20'

DRAWN: V. ROBBINS
CHECKED: T. ADINOLFI
APPROVED: C. BROWN

SIGNATURE BLOCK:

STATE OF CONNECTICUT
DEPARTMENT OF TRANSPORTATION

PROJECT TITLE:
WALK BRIDGE REPLACEMENT OVER THE NORWALK RIVER BRIDGE NO. 04288R/MP 41.5

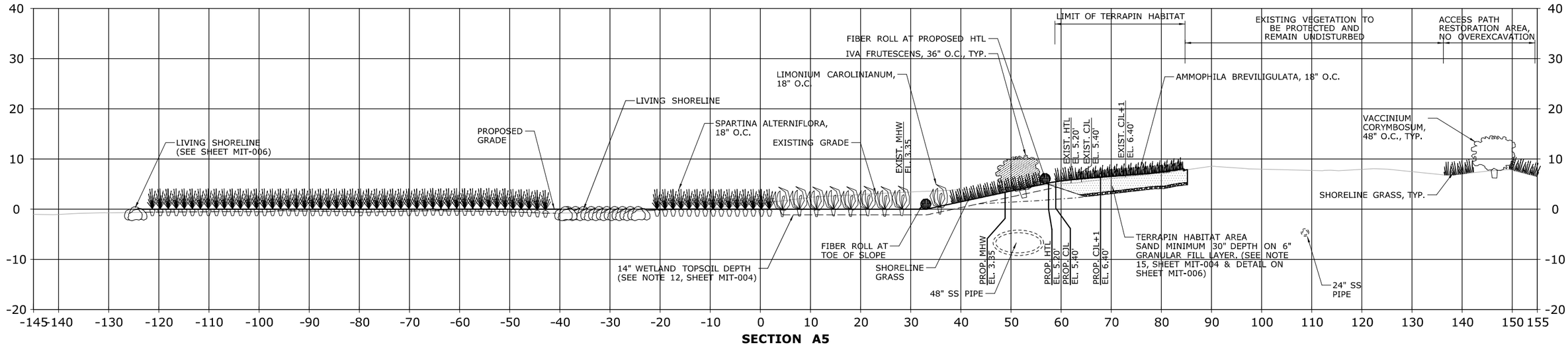
TOWN: **NORWALK**
PROJECT NO.: **0301-0176**
DRAWING TITLE: **ACTIVITY 16 WETLAND MITIGATION (MIT-008)**
DATE: **12-5-19**
DRAWING NO.: **CA16-8**

NOTES:

1. SEE MIT-007 MITIGATION AREA 2 PLANTING PLAN FOR LAYOUT OF IVA FRUTESCENS, BACCHARIS HALIMIFOLIA, MORELLA PENSYLVANICA, SPARTINA ALTERNIFLORA, LIMONIUM CAROLINIANUM, VACCINIUM CORYMBOSUM, AND SOLIDAGO SEMPERVIRENS.
2. SEE GRADING DRAWING (MIT-004) AND SECTIONS (MIT-005 & 006) FOR OVEREXCAVATION DEPTHS AND LIMITS.
3. SEE GRADING DRAWING (MIT-004) FOR SECTION BASELINE.

LEGEND:

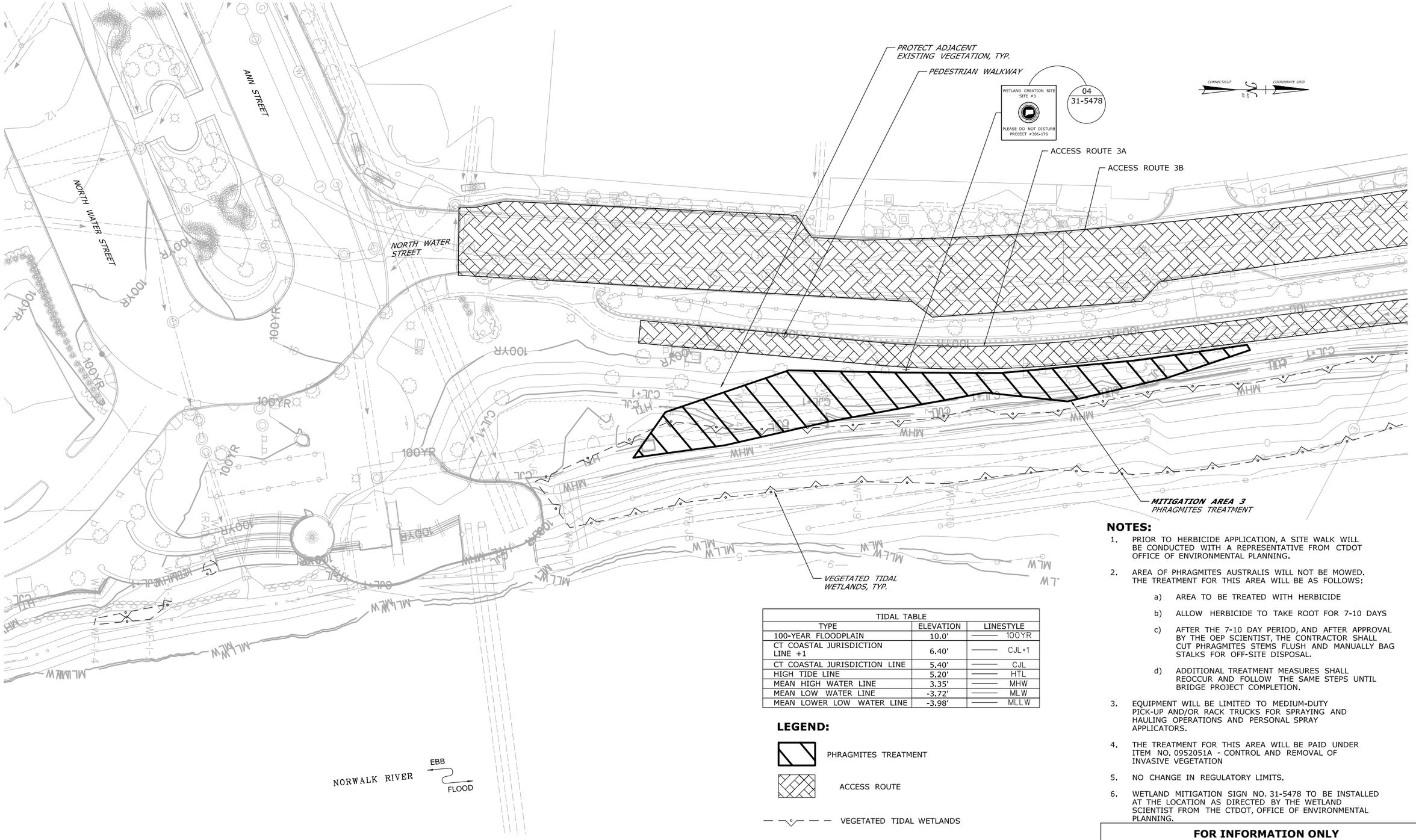
CJL+1= CT COASTAL JURISDICTION LINE +1
CJL = CT COSTAL JURISDICTION LINE
HTL = HIGH TIDE LINE
MHW = MEAN HIGH WATER LINE
EL = ELEVATION
O.C. = ON CENTER
YR = YEAR



SECTION A5

FOR INFORMATION ONLY
MITIGATION SITES OUTSIDE NAVIGATION CHANNEL

SCALE: SCALE IN FEET 0 10 20 SCALE 1" = 20'	DRAWN: V. ROBBINS CHECKED: T. ADINOLFI APPROVED: C. BROWN	SIGNATURE BLOCK:	STATE OF CONNECTICUT DEPARTMENT OF TRANSPORTATION	PROJECT TITLE: WALK BRIDGE REPLACEMENT OVER THE NORWALK RIVER BRIDGE NO. 04288R/MP 41.5	TOWN: NORWALK DRAWING TITLE: ACTIVITY 16 WETLAND MITIGATION (MIT-009)	PROJECT NO.: 0301-0176 DATE: 12-5-19 DRAWING NO.: CA16-9



TIDAL TABLE		
TYPE	ELEVATION	LINESTYLE
100-YEAR FLOODPLAIN	10.0'	100YR
CT COASTAL JURISDICTION LINE +1	6.40'	CJL+1
CT COASTAL JURISDICTION LINE	5.40'	CJL
HIGH TIDE LINE	5.20'	HTL
MEAN HIGH WATER LINE	3.35'	MHW
MEAN LOW WATER LINE	-3.72'	MLW
MEAN LOWER LOW WATER LINE	-3.98'	MLLW

LEGEND:

- PHRAGMITES TREATMENT
- ACCESS ROUTE
- VEGETATED TIDAL WETLANDS
- MITIGATION AREA BOUNDARY

NOTES:

1. PRIOR TO HERBICIDE APPLICATION, A SITE WALK WILL BE CONDUCTED WITH A REPRESENTATIVE FROM CTDOT OFFICE OF ENVIRONMENTAL PLANNING.
2. AREA OF PHRAGMITES AUSTRALIS WILL NOT BE MOWED. THE TREATMENT FOR THIS AREA WILL BE AS FOLLOWS:
   a) AREA TO BE TREATED WITH HERBICIDE
   b) ALLOW HERBICIDE TO TAKE ROOT FOR 7-10 DAYS
   c) AFTER THE 7-10 DAY PERIOD, AND AFTER APPROVAL BY THE OEP SCIENTIST, THE CONTRACTOR SHALL CUT PHRAGMITES STEMS FLUSH AND MANUALLY BAG STALKS FOR OFF-SITE DISPOSAL.
   d) ADDITIONAL TREATMENT MEASURES SHALL REOCCUR AND FOLLOW THE SAME STEPS UNTIL BRIDGE PROJECT COMPLETION.
3. EQUIPMENT WILL BE LIMITED TO MEDIUM-DUTY PICK-UP AND/OR RACK TRUCKS FOR SPRAYING AND HAULING OPERATIONS AND PERSONAL SPRAY APPLICATORS.
4. THE TREATMENT FOR THIS AREA WILL BE PAID UNDER ITEM NO. 0952051A - CONTROL AND REMOVAL OF INVASIVE VEGETATION
5. NO CHANGE IN REGULATORY LIMITS.
6. WETLAND MITIGATION SIGN NO. 31-5478 TO BE INSTALLED AT THE LOCATION AS DIRECTED BY THE WETLAND SCIENTIST FROM THE CTDOT, OFFICE OF ENVIRONMENTAL PLANNING.

FOR INFORMATION ONLY
MITIGATION SITES OUTSIDE NAVIGATION CHANNEL

SCALE:
SCALE IN FEET
0 20 40
SCALE 1" = 40'

DRAWN: V. ROBBINS
CHECKED: T. ADINOLFI
APPROVED: C. BROWN

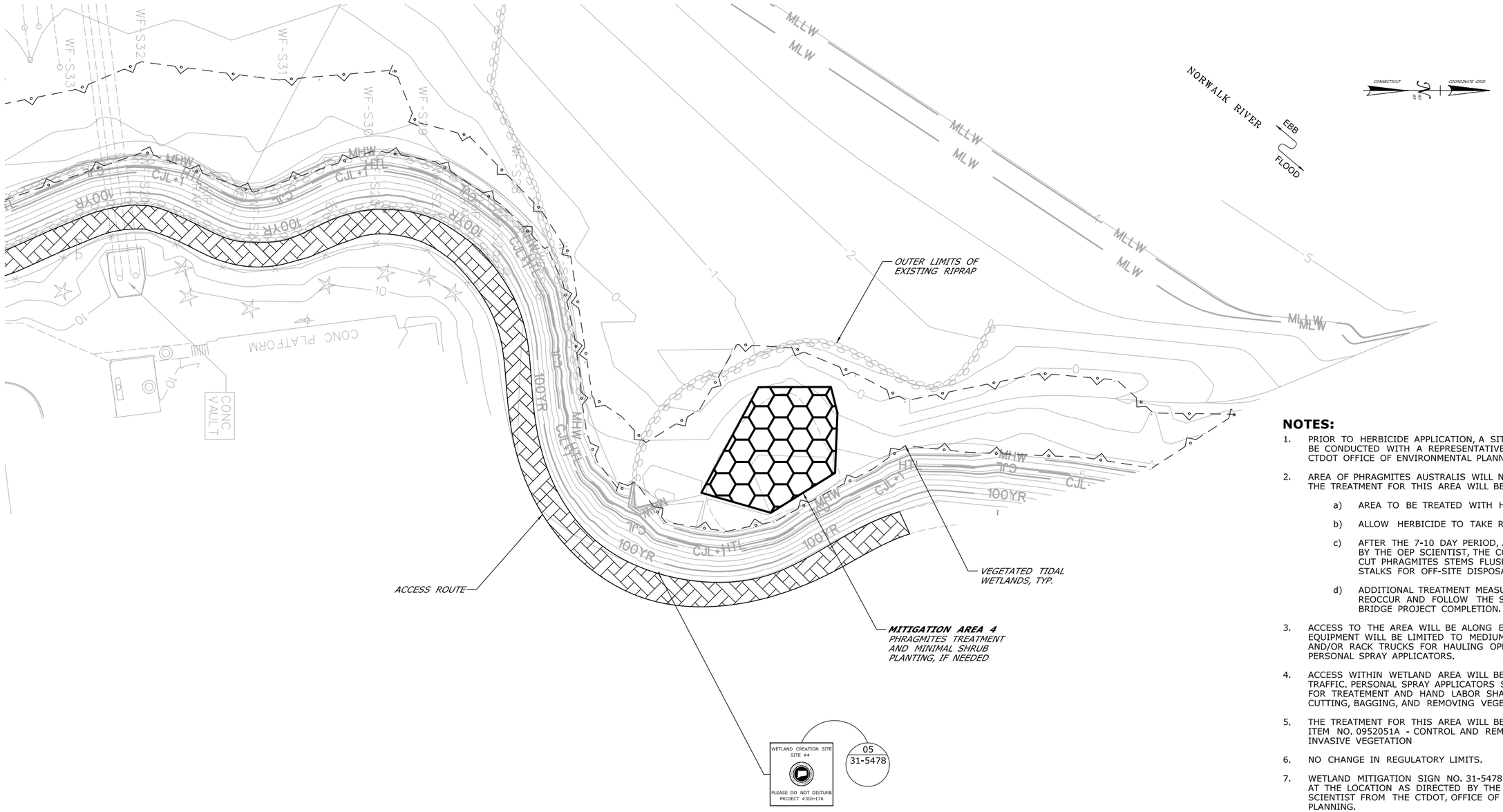
SIGNATURE BLOCK:

STATE OF CONNECTICUT
DEPARTMENT OF TRANSPORTATION

PROJECT TITLE:
WALK BRIDGE REPLACEMENT OVER THE NORWALK RIVER BRIDGE NO. 04288R/MP 41.5

TOWN: **NORWALK**
DRAWING TITLE: **ACTIVITY 16 WETLAND MITIGATION (MIT-010)**

PROJECT NO.: **0301-0176**
DATE: **12-5-19**
DRAWING NO.: **CA16-10**



TIDAL TABLE		
TYPE	ELEVATION	LINESTYLE
100-YEAR FLOODPLAIN	10.0'	100YR
CT COASTAL JURISDICTION LINE +1	6.40'	CJL+1
CT COASTAL JURISDICTION LINE	5.40'	CJL
HIGH TIDE LINE	5.20'	HTL
MEAN HIGH WATER LINE	3.35'	MHW
MEAN LOW WATER LINE	-3.72'	MLW
MEAN LOWER LOW WATER LINE	-3.98'	MLLW

NOTES:

1. PRIOR TO HERBICIDE APPLICATION, A SITE WALK WILL BE CONDUCTED WITH A REPRESENTATIVE FROM CTDOT OFFICE OF ENVIRONMENTAL PLANNING.
2. AREA OF PHRAGMITES AUSTRALIS WILL NOT BE MOWED. THE TREATMENT FOR THIS AREA WILL BE AS FOLLOWS:
   a) AREA TO BE TREATED WITH HERBICIDE
   b) ALLOW HERBICIDE TO TAKE ROOT FOR 7-10 DAYS
   c) AFTER THE 7-10 DAY PERIOD, AND AFTER APPROVAL BY THE OEP SCIENTIST, THE CONTRACTOR SHALL CUT PHRAGMITES STEMS FLUSH AND MANUALLY BAG STALKS FOR OFF-SITE DISPOSAL.
   d) ADDITIONAL TREATMENT MEASURES SHALL REOCCUR AND FOLLOW THE SAME STEPS UNTIL BRIDGE PROJECT COMPLETION.
3. ACCESS TO THE AREA WILL BE ALONG EXISTING TRAIL AND EQUIPMENT WILL BE LIMITED TO MEDIUM-DUTY PICK-UP AND/OR RACK TRUCKS FOR HAULING OPERATIONS AND PERSONAL SPRAY APPLICATORS.
4. ACCESS WITHIN WETLAND AREA WILL BE LIMITED TO FOOT TRAFFIC. PERSONAL SPRAY APPLICATORS SHALL BE USED FOR TREATEMENT AND HAND LABOR SHALL BE USED FOR CUTTING, BAGGING, AND REMOVING VEGETATION.
5. THE TREATMENT FOR THIS AREA WILL BE PAID UNDER ITEM NO. 0952051A - CONTROL AND REMOVAL OF INVASIVE VEGETATION
6. NO CHANGE IN REGULATORY LIMITS.
7. WETLAND MITIGATION SIGN NO. 31-5478 TO BE INSTALLED AT THE LOCATION AS DIRECTED BY THE WETLAND SCIENTIST FROM THE CTDOT, OFFICE OF ENVIRONMENTAL PLANNING.

LEGEND:

VEGETATED TIDAL WETLANDS

MITIGATION AREA BOUNDARY

PHRAGMITES TREATMENT AND MINIMAL SHRUB PLANTING (IF NEEDED)

ACCESS ROUTE

FOR INFORMATION ONLY
MITIGATION SITES OUTSIDE NAVIGATION CHANNEL

SCALE:
SCALE IN FEET
0 20 40
SCALE 1" = 40'

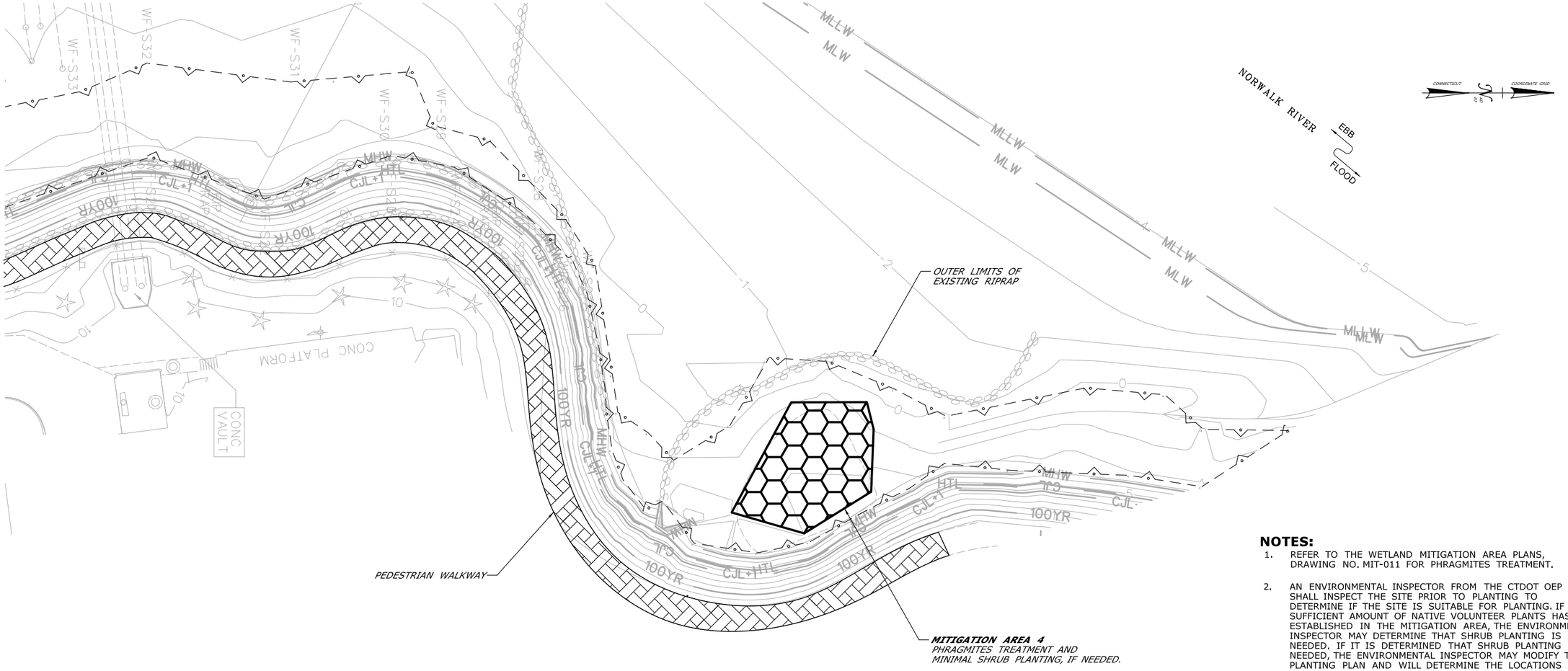
DRAWN: V. ROBBINS
CHECKED: T. ADINOLFI
APPROVED: C. BROWN

SIGNATURE BLOCK:

STATE OF CONNECTICUT
DEPARTMENT OF TRANSPORTATION

PROJECT TITLE:
WALK BRIDGE REPLACEMENT OVER THE NORWALK RIVER BRIDGE NO. 04288R/MP 41.5

TOWN: **NORWALK**
PROJECT NO.: **0301-0176**
DRAWING TITLE: **ACTIVITY 16 WETLAND MITIGATION (MIT-011)**
DATE: **12-5-19**
DRAWING NO.: **CA16-11**



PLANTING SCHEDULE (AS NEEDED SEE NOTE 2)						
CODE	QTY.	SCIENTIFIC NAME	COMMON NAME	SIZE	SPACING	NOTES
BH	13	BACCHARIS HALIMIFOLIA	EASTERN BACCHARIS	2 GAL.	36" O.C.	
IF	12	IVA FRUTESCENS	MARSH ELDER	2 GAL.	36" O.C.	

LEGEND:

MITIGATION AREA BOUNDARY

ACCESS ROUTE

SHRUB PLANTING (IF NEEDED)

TIDAL TABLE		
TYPE	ELEVATION	LINESTYLE
100-YEAR FLOODPLAIN	13.0'	100YR
CT COASTAL JURISDICTION LINE +1	6.40'	CJL+1
CT COASTAL JURISDICTION LINE	5.40'	CJL
HIGH TIDE LINE	5.20'	HTL
MEAN HIGH WATER LINE	3.35'	MHW
MEAN LOW WATER LINE	-3.72'	MLW
MEAN LOWER LOW WATER LINE	-3.98'	MLLW

NOTES:

1. REFER TO THE WETLAND MITIGATION AREA PLANS, DRAWING NO. MIT-011 FOR PHRAGMITES TREATMENT.

2. AN ENVIRONMENTAL INSPECTOR FROM THE CTDOT OEP SHALL INSPECT THE SITE PRIOR TO PLANTING TO DETERMINE IF THE SITE IS SUITABLE FOR PLANTING. IF A SUFFICIENT AMOUNT OF NATIVE VOLUNTEER PLANTS HAS ESTABLISHED IN THE MITIGATION AREA, THE ENVIRONMENTAL INSPECTOR MAY DETERMINE THAT SHRUB PLANTING IS NOT NEEDED. IF IT IS DETERMINED THAT SHRUB PLANTING IS NEEDED, THE ENVIRONMENTAL INSPECTOR MAY MODIFY THE PLANTING PLAN AND WILL DETERMINE THE LOCATIONS FOR PLANTING.

2A. PLANTING SHALL BE DONE DURING THE FINAL YEAR OF BRIDGE CONSTRUCTION, IF NEEDED.

3. IF SHRUB PLANTING IS NEEDED, AUGER OR DIG TO MAKE PLANTING HOLES FOR SHRUBS, AND TRANSPLANT. DO NOT REMOVE PLANTS FROM CONTAINERS UNTIL IMMEDIATELY BEFORE PLANTING. SEPARATE ANY POT-BOUND OR CRAMPED ROOTS AND SPREAD THEM WHEN PLACING THE PLANTS. MACHINERY WILL NOT BE ALLOWED WITHIN THE MITIGATION SITE AT ANY TIME FOR PLANTING.

4. PAYMENT FOR THE WORK WILL BE MADE UNDER THE FOLLOWING ITEMS:
   DISPOSAL OF DEBRIS WILL BE PAID UNDER ITEM #0101135A - DISPOSAL OF DEBRIS.

   FURNISHING AND PLACING SHRUBS AND HERBACEOUS PLANTINGS IN THE WETLAND MITIGATION AREAS WILL BE PAID UNDER ITEM #0949875A - WETLAND PLANTINGS.

   THE COST OF INSTALLING WETLAND CREATION SIGNS (31-5478) WILL BE PAID FOR UNDER ITEM #1208932A - SIGN FACE - SHEET ALUMINUM (TYPE IV RETROREFLECTIVE SHEETING).

FOR INFORMATION ONLY
MITIGATION SITES OUTSIDE NAVIGATION CHANNEL

SCALE:
SCALE IN FEET
0 20 40
SCALE 1" = 40'

DRAWN: V. ROBBINS
CHECKED: T. ADINOLFI
APPROVED: C. BROWN

SIGNATURE BLOCK:

STATE OF CONNECTICUT
DEPARTMENT OF TRANSPORTATION

PROJECT TITLE:
WALK BRIDGE REPLACEMENT OVER THE NORWALK RIVER BRIDGE NO. 04288R/MP 41.5

TOWN: **NORWALK**

DRAWING TITLE:
ACTIVITY 16 WETLAND MITIGATION (MIT-012)

PROJECT NO.: **0301-0176**

DATE: **12-5-19**

DRAWING NO.: **CA16-12**

NORWALK RIVER

EBB

FLOOD

VEGETATED TIDAL WETLANDS, TYP.

MITIGATION AREA 5
PHRAGMITES TREATMENT AND MINIMAL SHRUB PLANTING, IF NEEDED

WETLAND CREATION SITE SITE #5
PLEASE DO NOT DISTURB PROJECT #301-176

06
31-5478

07
31-5478

WETLAND CREATION SITE SITE #5
PLEASE DO NOT DISTURB PROJECT #301-176

CONSTITUTION PARK

PROTECT ADJACENT EXISTING VEGETATION, TYP.

WASHINGTON STREET

ACCESS ROUTE 5

WALK BRIDGE CONSTRUCTION TRESTLE

NEW HAVEN LINE RAILROAD

℄ TRACK 3

℄ TRACK 1

℄ TRACK 2

℄ TRACK 4

CONC BLOCK

100YR

TIDAL TABLE		
TYPE	ELEVATION	LINESTYLE
100-YEAR FLOODPLAIN	12.0'	100YR
CT COASTAL JURISDICTION LINE +1	6.40'	CJL+1
CT COASTAL JURISDICTION LINE	5.40'	CJL
HIGH TIDE LINE	5.20'	HTL
MEAN HIGH WATER LINE	3.35'	MHW
MEAN LOW WATER LINE	-3.72'	MLW
MEAN LOWER LOW WATER LINE	-3.98'	MLLW

LEGEND:

- PHRAGMITES TREATMENT AND MINIMAL SHRUB PLANTING (IF NEEDED)
- ACCESS ROUTE
- VEGETATED TIDAL WETLANDS
- MITIGATION AREA BOUNDARY

NOTES:

1. PRIOR TO HERBICIDE APPLICATION, A SITE WALK WILL BE CONDUCTED WITH A REPRESENTATIVE FROM CTDOT OFFICE OF ENVIRONMENTAL PLANNING.
2. AREA OF PHRAGMITES AUSTRALIS WILL NOT BE MOWED. THE TREATMENT FOR THIS AREA WILL BE AS FOLLOWS:
   a) AREA TO BE TREATED WITH HERBICIDE
   b) ALLOW HERBICIDE TO TAKE ROOT FOR 7-10 DAYS
   c) AFTER THE 7-10 DAY PERIOD, AND AFTER APPROVAL BY THE OEP SCIENTIST THE CONTRACTOR SHALL CUT PHRAGMITES STEMS FLUSH AND MANUALLY BAG STALKS FOR OFF-SITE DISPOSAL.
   d) ADDITIONAL TREATMENT MEASURES SHALL REOCCUR AND FOLLOW THE SAME STEPS UNTIL BRIDGE PROJECT COMPLETION.
3. ACCESS TO THE AREA WILL BE ALONG EXISTING TRAIL AND EQUIPMENT WILL BE LIMITED TO MEDIUM-DUTY PICK-UP AND/OR RACK TRUCKS FOR HAULING OPERATIONS AND PERSONAL SPRAY APPLICATORS.
4. ACCESS WITHIN WETLAND AREA WILL BE LIMITED TO FOOT TRAFFIC. PERSONAL SPRAY APPLICATORS SHALL BE USED FOR TREATEMENT AND HAND LABOR SHALL BE USED FOR CUTTING, BAGGING, AND REMOVING VEGETATION.
5. FOOT ACCESS THROUGH CONSTITUTION PARK MAY BE NECESSARY FOR TRANSPORTATION OF DEBRIS AND PLANTINGS.
6. THE TREATMENT FOR THIS AREA WILL BE PAID UNDER ITEM NO. 0952051A - CONTROL AND REMOVAL OF INVASIVE VEGETATION
7. NO CHANGE IN REGULATORY LIMITS.
8. WETLAND MITIGATION SIGN NO. 31-5478 TO BE INSTALLED AT THE LOCATION AS DIRECTED BY THE WETLAND SCIENTIST FROM THE CTDOT, OFFICE OF ENVIRONMENTAL PLANNING.

FOR INFORMATION ONLY
MITIGATION SITES OUTSIDE NAVIGATION CHANNEL

SCALE:
SCALE IN FEET
0 20 40
SCALE 1" = 40'

DRAWN: V. ROBBINS
CHECKED: T. ADINOLFI
APPROVED: C. BROWN

SIGNATURE BLOCK:

STATE OF CONNECTICUT
DEPARTMENT OF TRANSPORTATION

PROJECT TITLE:
WALK BRIDGE REPLACEMENT OVER THE NORWALK RIVER BRIDGE NO. 04288R/MP 41.5

TOWN: **NORWALK**
DRAWING TITLE: **ACTIVITY 16 WETLAND MITIGATION (MIT-013)**

PROJECT NO.: **0301-0176**
DATE: **12-5-19**
DRAWING NO.: **CA16-13**

PLANTING SCHEDULE (AS NEEDED SEE NOTE 2)						
CODE	QTY.	SCIENTIFIC NAME	COMMON NAME	SIZE	SPACING	NOTES
BH	25	BACCHARIS HALIMIFOLIA	EASTERN BACCHARIS	2 GAL.	36" O.C.	
IF	25	IVA FRUTESCENS	MARSH ELDER	2 GAL.	36" O.C.	

TIDAL TABLE		
TYPE	ELEVATION	LINESTYLE
100-YEAR FLOODPLAIN	13.0'	100YR
CT COASTAL JURISDICTION LINE +1	6.40'	CJL+1
CT COASTAL JURISDICTION LINE	5.40'	CJL
HIGH TIDE LINE	5.20'	HTL
MEAN HIGH WATER LINE	3.35'	MHW
MEAN LOW WATER LINE	-3.72'	MLW
MEAN LOWER LOW WATER LINE	-3.98'	MLLW

LEGEND:

- MITIGATION AREA BOUNDARY
- SHRUB PLANTING (IF NEEDED)
- ACCESS ROUTE

NOTES:

1. REFER TO THE WETLAND MITIGATION AREA PLANS, DRAWING NO. MIT-013 FOR PHRAGMITES TREATMENT.
2. AN ENVIRONMENTAL INSPECTOR FROM THE CTDOT OEP SHALL INSPECT THE SITE PRIOR TO PLANTING TO DETERMINE IF THE SITE IS SUITABLE FOR PLANTING. IF A SUFFICIENT AMOUNT OF NATIVE VOLUNTEER PLANTS HAS ESTABLISHED IN THE MITIGATION AREA, THE ENVIRONMENTAL INSPECTOR MAY DETERMINE THAT SHRUB PLANTING IS NOT NEEDED. IF IT IS DETERMINED THAT SHRUB PLANTING IS NEEDED, THE ENVIRONMENTAL INSPECTOR MAY MODIFY THE PLANTING PLAN AND WILL DETERMINE THE LOCATIONS FOR PLANTING.

2A. PLANTING SHALL BE DONE DURING THE FINAL YEAR OF BRIDGE CONSTRUCTION, IF NEEDED.

3. ACCESS WITHIN WETLAND AREA WILL BE LIMITED TO FOOT TRAFFIC. FOOT ACCESS THROUGH CONSTITUTION PARK MAY BE NECESSARY FOR TRANSPORTATION OF DEBRIS AND PLANTINGS.
4. IF SHRUB PLANTING IS NEEDED, AUGER OR DIG TO MAKE PLANTING HOLES FOR SHRUBS, AND TRANSPLANT. DO NOT REMOVE PLANTS FROM CONTAINERS UNTIL IMMEDIATELY BEFORE PLANTING. SEPARATE ANY POT-BOUND OR CRAMPED ROOTS AND SPREAD THEM WHEN PLACING THE PLANTS. MACHINERY WILL NOT BE ALLOWED WITHIN THE MITIGATION SITE AT ANY TIME FOR PLANTING.
5. PAYMENT FOR THE WORK WILL BE MADE UNDER THE FOLLOWING ITEMS:

   DISPOSAL OF DEBRIS WILL BE PAID UNDER ITEM #0101135A - DISPOSAL OF DEBRIS.

   FURNISHING AND PLACING SHRUBS AND HERBACEOUS PLANTINGS IN THE WETLAND MITIGATION AREAS WILL BE PAID UNDER ITEM #0949875A - WETLAND PLANTINGS.

   THE COST OF INSTALLING WETLAND CREATION SIGNS (31-5478) WILL BE PAID FOR UNDER ITEM #1208932A - SIGN FACE - SHEET ALUMINUM (TYPE IV RETROREFLECTIVE SHEETING).

FOR INFORMATION ONLY
MITIGATION SITES OUTSIDE NAVIGATION CHANNEL

SCALE:
SCALE IN FEET
0 20 40
SCALE 1" = 40'

DRAWN: V. ROBBINS
CHECKED: T. ADINOLFI
APPROVED: C. BROWN

SIGNATURE BLOCK:

STATE OF CONNECTICUT
DEPARTMENT OF TRANSPORTATION

PROJECT TITLE:
WALK BRIDGE REPLACEMENT OVER THE NORWALK RIVER BRIDGE NO. 04288R/MP 41.5

TOWN: **NORWALK**
PROJECT NO.: **0301-0176**
DRAWING TITLE: **ACTIVITY 16 WETLAND MITIGATION (MIT-014)**
DATE: **12-5-19**
DRAWING NO.: **CA16-14**

NOTES:

1. PRIOR TO COMMENCEMENT OF ANY WORK ASSOCIATED WITH THE MITIGATION AREA, THE CONTRACTOR SHALL SUBMIT TO CTDOT OFFICE OF ENVIRONMENTAL PLANNING (OEP) FOR REVIEW AND APPROVAL, A WORK PLAN THAT INCLUDES A CONSTRUCTION SCHEDULE AND AN OUTLINE OF CONSTRUCTION METHODOLOGIES FOR PERFORMING THE REQUIRED WORK IN ACCORDANCE WITH ITEM NO. 0948013A - TIDAL WETLAND CREATION, AND IN ACCORDANCE WITH OTHER ITEMS LISTED BELOW.

2. PRIOR TO ANY EARTH WORK, THE SITE WILL BE TREATED FOR INVASIVE SPECIES UNDER ITEM NO. 0952051A - CONTROL AND REMOVAL OF INVASIVE VEGETATION. EXCAVATION SHALL COMMENCE FOLLOWING 10 DAYS OF HERBICIDE SET.

3. EXCAVATION TO PERFORM GRADING TO BE COMPLETED IN ACCORDANCE WITH ITEM NO. 0202000 - EARTH EXCAVATION. THE FORMATION OF SUBGRADE, FINAL GRADE, AND PLACEMENT OF BACKFILL AND SUBSTRATE TO BE COMPLETED IN ACCORDANCE WITH ITEM NO. 0948013A - TIDAL WETLAND CREATION.

4. SEE DRAWING NO. MIT-018 FOR LIMITS OF SHORELINE GRASS ESTABLISHMENT AND PLANTINGS IN TIDAL MITIGATION AREA.

5. A WETLAND SCIENTIST FROM CTDOT, OEP WILL BE ON-SITE TO MONITOR AND DIRECT CONSTRUCTION OF THE TIDAL MITIGATION AREA. AT LEAST 10 DAYS PRIOR TO THE COMMENCEMENT OF CONSTRUCTION, THE CONTRACTOR SHALL ARRANGE FOR A MEETING WITH THE OEP WETLAND SCIENTIST OR ENVIRONMENTAL INSPECTOR TO REVIEW THE PLANNED WORK ACTIVITIES.

6. THE TIDAL WETLAND AND MITIGATION WORK SHALL CONSIST OF, BUT NOT LIMITED TO, THE CONSTRUCTION AND REMOVAL OF TEMPORARY ACCESS ROADS OR TEMPORARY ACCESS RAMPS, PLACEMENT AND REMOVAL OF RIPRAP, HERBICIDE TREATMENT OF PHRAGMITES OR OTHER INVASIVE SPECIES, OVER EXCAVATION OF RIPRAP AND DEBRIS, PREPARING APPROPRIATE SITE GRADES, CONSTRUCTION OF THE LIVING SHORELINE, PLACEMENT OF OYSTER CULTCH, PLACING FIBER ROLL, PLACING APPROVED PLANTING BACKFILL/TOPSOIL, THE FURNISHING AND PLACEMENT OF PLANTINGS, SHORELINE GRASS ESTABLISHMENT, AND WETLAND CREATION SIGN.

7. PRIMARY AND SECONDARY ACCESS PATHS WITHIN MITIGATION AREA ARE CONCEPTUAL ONLY. PRIOR TO COMMENCING ANY WORK, THE CONTRACTOR SHALL SUBMIT A PROPOSED ACCESS PLAN TO CTDOT OEP FOR REVIEW AND APPROVAL PER ITEM NO. 0948013A - TIDAL WETLAND CREATION.

8. THE SURFACE LAYER OF EXISTING RIPRAP SHALL BE EXCAVATED AND ROCK THAT IS CLEAN, AND A MINIMUM 90% FREE OF SOIL, SHALL BE REUSED FOR CONSTRUCTION OF THE LIVING SHORELINE, AS DIRECTED BY THE OEP WETLAND SCIENTIST. IF THE AMOUNT OF SUITABLE REUSED ROCK FROM WITHIN THE MITIGATION AREA IS NOT SUFFICIENT TO CONSTRUCT THE LIVING SHORELINE, RIPRAP OF SIMILAR SIZE AS SPECIFIED IN CTDOT FORM 817 SECTION M.12.02 SHALL BE PROVIDED TO COMPLETE THE LIVING SHORELINE WORK.

9. EXISTING RIPRAP REMAINING BELOW THE SURFACE LAYER SHALL BE OVEREXCAVATED TO A SUFFICIENT DEPTH (BETWEEN 1.5' AND 2.75' BELOW EXISTING GRADE) AS DIRECTED BY THE OEP WETLAND SCIENTIST AS FOLLOWS:

i. IF THE LAYERS OF EXISTING RIPRAP CONSIST OF MORE THAN 50% ROCK FROM WITHIN THE OVEREXCAVATED AREA, THE RIPRAP MATERIAL SHALL BE PROPERLY DISPOSED OF AT AN APPROVED UPLAND FACILITY, AS DETERMINED BY THE OEP WETLAND SCIENTIST. BACKFILL MATERIAL SHALL BE PLACED AND COMPACTED WITHIN THE OVEREXCAVATED AREA TO ACHIEVE THE PROPOSED SUBGRADE. THE REMAINING TOPSOIL MATERIAL SHALL BE PLACED AND COMPACTED UP TO THE PROPOSED FINAL GRADE.

ii. IF THE LAYERS OF EXISTING RIPRAP CONSIST OF MORE THAN 50% SOIL FROM WITHIN THE OVEREXCAVATED AREA, THE MATERIAL SHALL REMAIN IN PLACE, AS DETERMINED BY THE OEP WETLAND SCIENTIST. ADDITIONAL COMPACTED BACKFILL MATERIAL MAY BE REQUIRED TO ACHIEVE THE PROPOSED SUBGRADE. THE REMAINING TOPSOIL MATERIAL SHALL BE PLACED AND COMPACTED UP TO THE PROPOSED FINAL GRADE.

10. A 14" DEEP LAYER OF WETLAND PLANTING SOIL/TOPSOIL SHALL BE PLACED ON THE PROPOSED SUBGRADE. THIS ACCOUNTS FOR COMPACTION AND SETTLING FOLLOWING THE TIDAL FLUSHING.

11. WETLAND MITIGATION SIGN NO. 31-5478 TO BE INSTALLED AT THE LOCATION AS DIRECTED BY THE WETLAND SCIENTIST FROM THE CTDOT, OEP

12. EQUIPMENT WILL NOT BE PERMITTED ON COMPACTED PROPOSED FINAL GRADE WITHIN THE MITIGATION AREA.

13. MITIGATION AREA 6A TO BE COMPLETED LAST IN COORDINATION WITH THE REMOVAL OF THE WALK BRIDGE CONSTRUCTION TRESTLE. CONSTRUCTION ACTIVITIES FOR AREA 6A WILL BE PERFORMED FROM THE NE TRESTLE AS IT GETS REMOVED UPON COMPLETION OF BRIDGE CONSTRUCTION. ACCESS TO AREA 6A AFTER THE CONSTRUCTION TRESTLE IS REMOVED WILL BE ALONG THE EXISTING MULTI-USE TRAIL FROM THE CONSTRUCTION STAGING AREA WITHIN CTDOT RIGHT OF WAY ON THE NORTH SIDE OF THE EAST APPROACH TO WALK BRIDGE.

14. A CONTINUOUS 9' MINIMUM WIDTH TO 11.5' WIDTH OF EXISTING RIPRAP IS TO REMAIN AS A SUBSTRATE BASE FOR CONSTRUCTING A LIVING SHORELINE OF REUSED EXCAVATED ROCKS (SEE DETAIL ON DRAWING NO. MIT-017). ANY AREAS OF THE LIVING SHORELINE BASE FOUND TO BE DISCONTINUOUS WILL RECEIVE RIPRAP THAT HAS BEEN REMOVED FROM OTHER PORTIONS OF THE MITIGATION AREA TO FILL GAPS.

15. UNDER THE DIRECTION OF A WETLAND SCIENTIST FROM CTDOT OEP, THE LIVING SHORELINE ROCK SHALL BE PLACED IN A CONFIGURATION THAT IS A MINIMUM WIDTH OF 7' AT THE BASE FOR A 2' HIGH BERM, OR A MINIMUM WIDTH OF 9.5' AT THE BASE FOR A 3' HIGH BERM. THE ROCK SHALL BE PLACED AT A HEIGHT THAT ALLOWS THE TOP OF THE RIPRAP TO BE AT THE PROPOSED FINAL GRADE ELEVATION OR SLIGHTLY ABOVE PROPOSED FINAL GRADE. ON THE LANDWARD SIDE OF THE RIPRAP, VOIDS SHALL BE FILLED WITH GRANULAR MATERIAL TO PREVENT THE TOPSOIL FROM WASHING THROUGH THE VOIDS. GRANULAR FILL SHALL BE AS SPECIFIED IN ITEM NO. 0948013A - TIDAL WETLAND CREATION.

16. OYSTER CULTCH SHALL BE PLACED ON THE BOTTOM ¼ OF THE WATERWARD SIDE OF THE LIVING SHORELINE RIPRAP AND A 6" DEEP LAYER SHALL EXTEND OUT 4' TO 5' FROM BASE, ON EXISTING GRADE, AS SPECIFIED IN ITEM NO. 0948013A - TIDAL WETLAND CREATION.

17. MITIGATION AREA 6B NOTES ARE AS FOLLOWS:

i. PRIOR TO HERBICIDE APPLICATION, A SITE WALK WILL NEED TO BE CONDUCTED WITH A REPRESENTATIVE FROM CTDOT OFFICE OF ENVIRONMENTAL PLANNING.

ii. AREA OF PHRAGMITES AUSTRALIS WILL NOT BE MOWED. THE TREATMENT FOR THIS AREA WILL BE AS FOLLOWS:

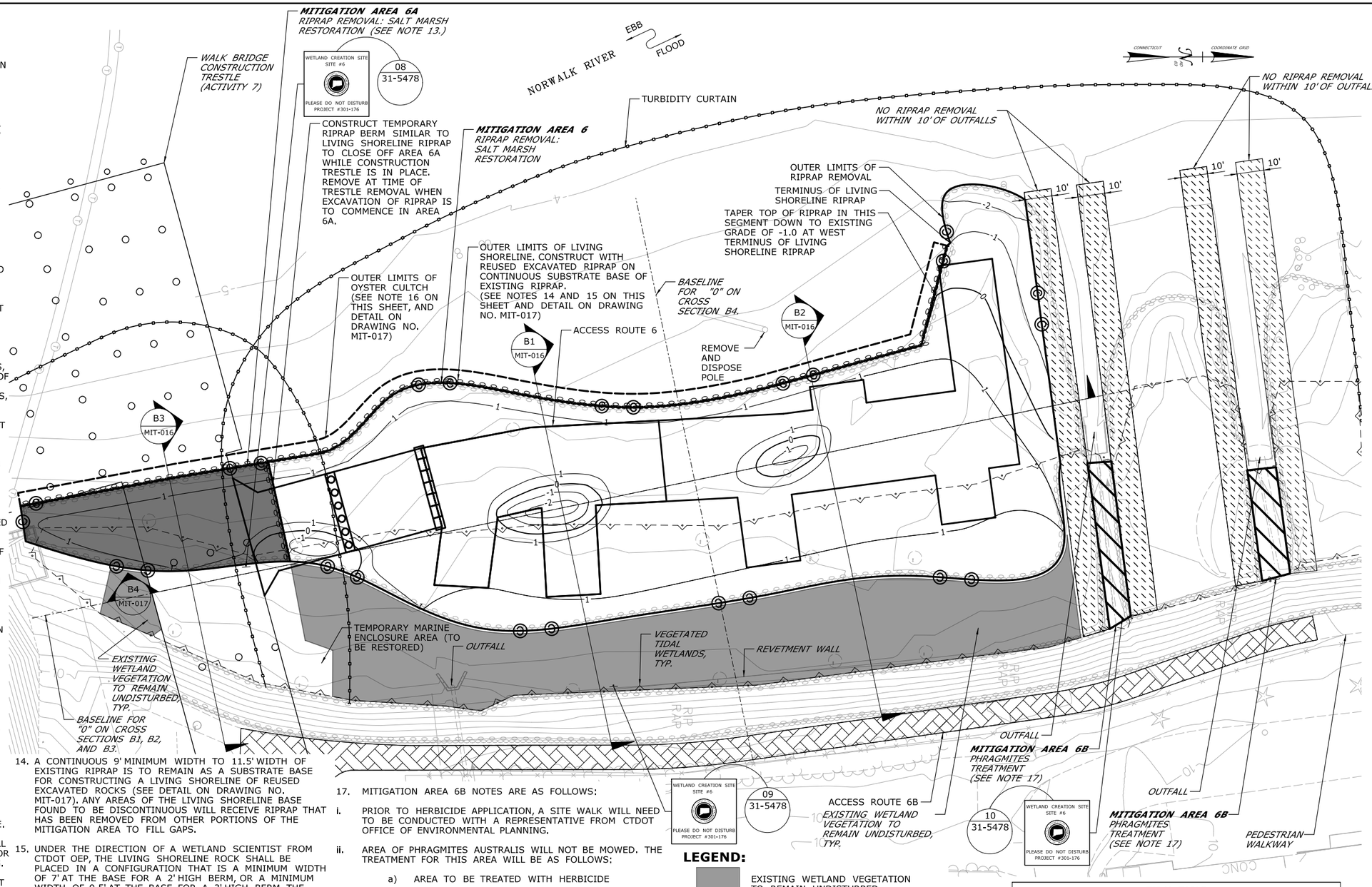
   a) AREA TO BE TREATED WITH HERBICIDE

   b) ALLOW HERBICIDE TO TAKE ROOT FOR 7-10 DAYS

   c) AFTER THE 7-10 DAY PERIOD, AND AFTER APPROVAL BY THE OEP SCIENTIST, THE CONTRACTOR SHALL CUT PHRAGMITES STEMS FLUSH AND MANUALLY BAG STALKS FOR OFF-SITE DISPOSAL.

   d) ADDITIONAL TREATMENT MEASURES SHALL REOCCUR AND FOLLOW THE SAME STEPS UNTIL PROJECT COMPLETION.

iii. THE TREATMENT FOR THIS AREA WILL BE PAID UNDER ITEM NO. 0952051A - CONTROL AND REMOVAL OF INVASIVE VEGETATION.



LEGEND:

- EXISTING WETLAND VEGETATION TO REMAIN UNDISTURBED
- NO RIPRAP REMOVAL
- PHRAGMITES TREATMENT (SITE 6B)
- MITIGATION AREA 6A
- VEGETATED TIDAL WETLANDS
- MITIGATION AREA BOUNDARY
- APPROXIMATE SLOPE LIMITS
- OUTER LIMITS OF OYSTER CULTCH

TIDAL TABLE		
TYPE	ELEVATION	LINESTYLE
100-YEAR FLOODPLAIN	10.0'	100YR
CT COASTAL JURISDICTION LINE +1	6.40'	CJL+1
CT COASTAL JURISDICTION LINE	5.40'	CJL
HIGH TIDE LINE	5.20'	HTL
MEAN HIGH WATER LINE	3.35'	MHW
MEAN LOW WATER LINE	-3.72'	MLW
MEAN LOWER LOW WATER LINE	-3.98'	MLLW

FOR INFORMATION ONLY
MITIGATION SITES OUTSIDE NAVIGATION CHANNEL

SCALE:
SCALE IN FEET
0 20 40
SCALE 1" = 40'

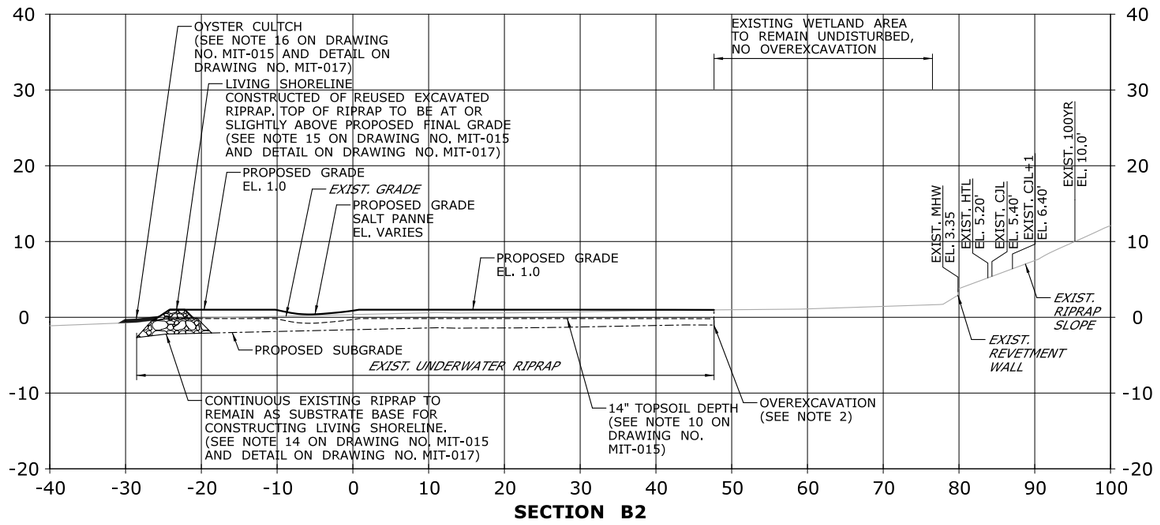
DRAWN: V. ROBBINS
CHECKED: T. ADINOLFI
APPROVED: C. BROWN

SIGNATURE BLOCK:

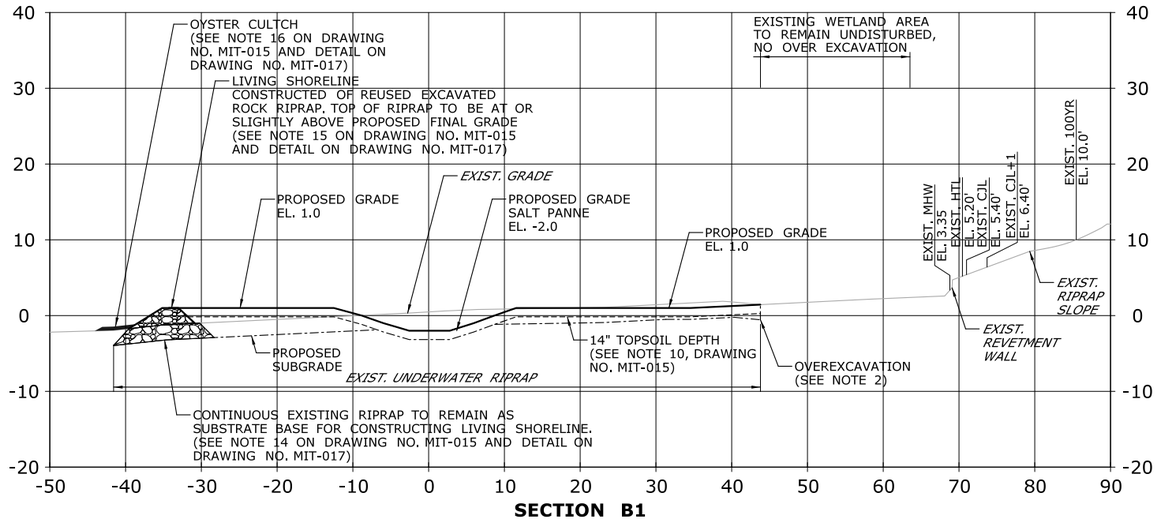
STATE OF CONNECTICUT
DEPARTMENT OF TRANSPORTATION

PROJECT TITLE:
WALK BRIDGE REPLACEMENT OVER THE NORWALK RIVER BRIDGE NO. 04288R/MP 41.5

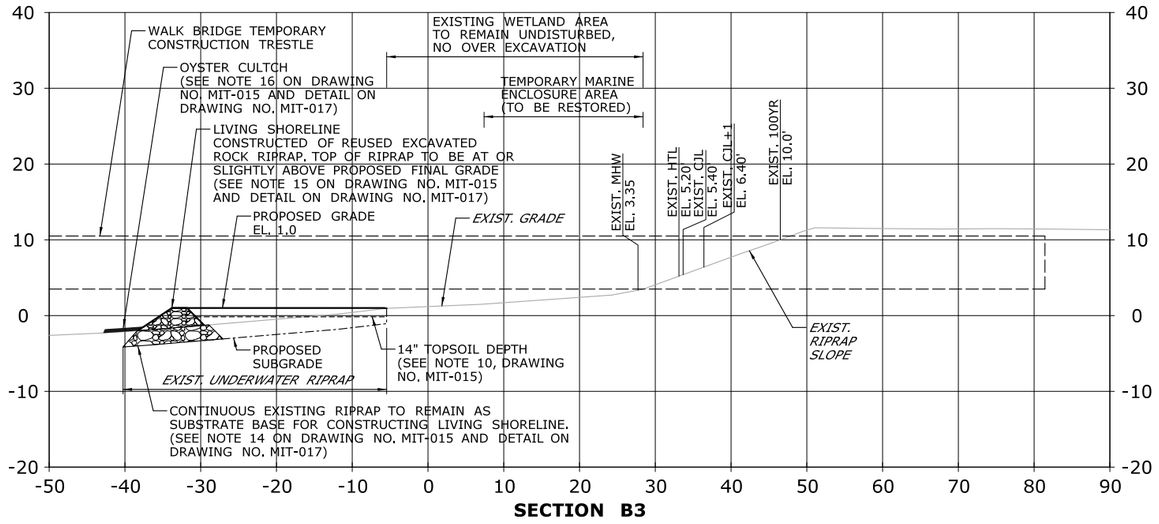
TOWN: **NORWALK**
PROJECT NO.: **0301-0176**
DRAWING TITLE: **ACTIVITY 16 WETLAND MITIGATION (MIT-015)**
DATE: **12-5-19**
DRAWING NO.: **CA16-15**



SECTION B2



SECTION B1



SECTION B3

NOTES:

1. SEE SECTIONS FOR TOPSOIL DEPTHS.
2. OVEREXCAVATION TO BE SEQUENCED AS FOLLOWS:

   i. EXCAVATE SURFACE LAYER OF EXISTING RIPRAP TO REMOVE AND REUSE ROCK THAT IS CLEAN AND A MINIMUM 90% FREE OF SOIL FOR CONSTRUCTION OF LIVING SHORELINE.

   ii. OVEREXCAVATE REMAINING RIPRAP LAYERS TO A SUFFICIENT DEPTH (BETWEEN 1.5' AND 2.75') BELOW EXISTING GRADE TO REMOVE ANY LAYERS OF RIPRAP THAT CONSIST OF MORE THAN 50% ROCK. LAYERS OF RIPRAP WITH MORE THAN 50% SOIL CAN REMAIN IN PLACE ONCE PROPOSED SUBGRADE IS ACHIEVED AS DETERMINED BY THE OEP WETLAND SCIENTIST.

   iii. GRADE MITIGATION AREA 6 TO MATCH PROPOSED GRADE.

LEGEND:

CJL+1= CT COASTAL JURISDICTION LINE +1
CJL = CT COASTAL JURISDICTION LINE
HTL = HIGH TIDE LINE
MHW = MEAN HIGH WATER LINE
EL = ELEVATION
EXIST. = EXISTING
YR = YEAR

FOR INFORMATION ONLY
MITIGATION SITES OUTSIDE NAVIGATION CHANNEL

SCALE:
SCALE IN FEET
0 10 20
SCALE 1" = 20'

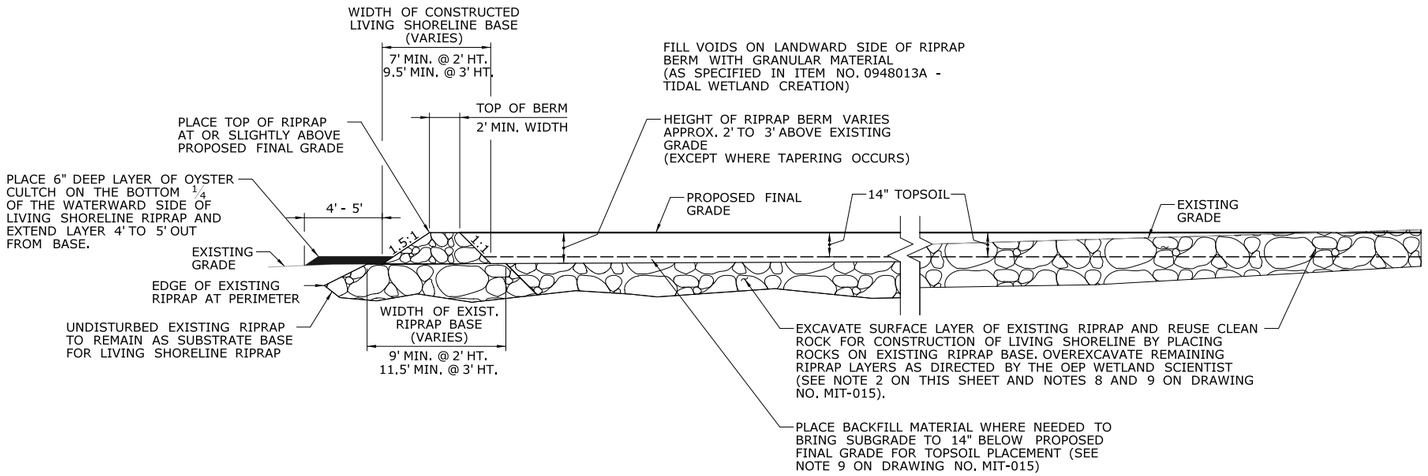
DRAWN: V. ROBBINS
CHECKED: T. ADINOLFI
APPROVED: C. BROWN

SIGNATURE BLOCK:

STATE OF CONNECTICUT
DEPARTMENT OF TRANSPORTATION

PROJECT TITLE:
WALK BRIDGE REPLACEMENT OVER THE NORWALK RIVER BRIDGE NO. 04288R/MP 41.5

TOWN: **NORWALK**
PROJECT NO.: **0301-0176**
DRAWING TITLE: **ACTIVITY 16 WETLAND MITIGATION (MIT-016)**
DATE: **12-5-19**
DRAWING NO.: **CA16-16**



LIVING SHORELINE DETAIL WITH REUSED RIPRAP

NOTES:

1. SEE SECTIONS FOR TOPSOIL DEPTHS.

2. OVEREXCAVATION TO BE SEQUENCED AS FOLLOWS:

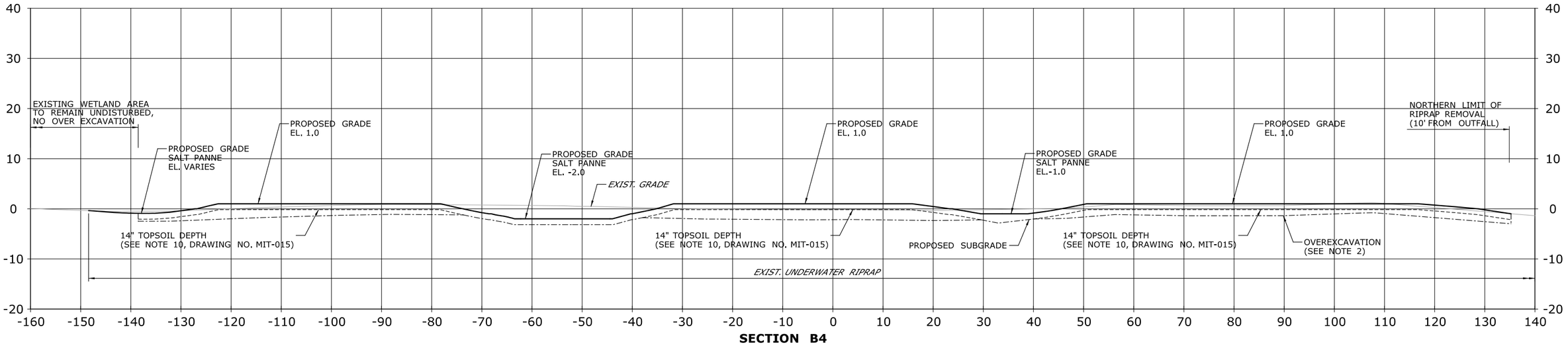
   i. EXCAVATE SURFACE LAYER OF EXISTING RIPRAP TO REMOVE AND REUSE ROCK THAT IS CLEAN AND A MINIMUM 90% FREE OF SOIL FOR CONSTRUCTION OF LIVING SHORELINE.

   ii. OVEREXCAVATE REMAINING RIPRAP LAYERS TO A SUFFICIENT DEPTH (BETWEEN 1.5' AND 2.75') BELOW EXISTING GRADE TO REMOVE ANY LAYERS OF RIPRAP THAT CONSIST OF MORE THAN 50% ROCK. LAYERS OF RIPRAP WITH MORE THAN 50% SOIL CAN REMAIN IN PLACE ONCE PROPOSED SUBGRADE IS ACHIEVED AS DETERMINED BY THE OEP WETLAND SCIENTIST.

   iii. GRADE MITIGATION AREA 6 TO MATCH PROPOSED GRADE.

LEGEND:

EXIST. = EXISTING



SECTION B4

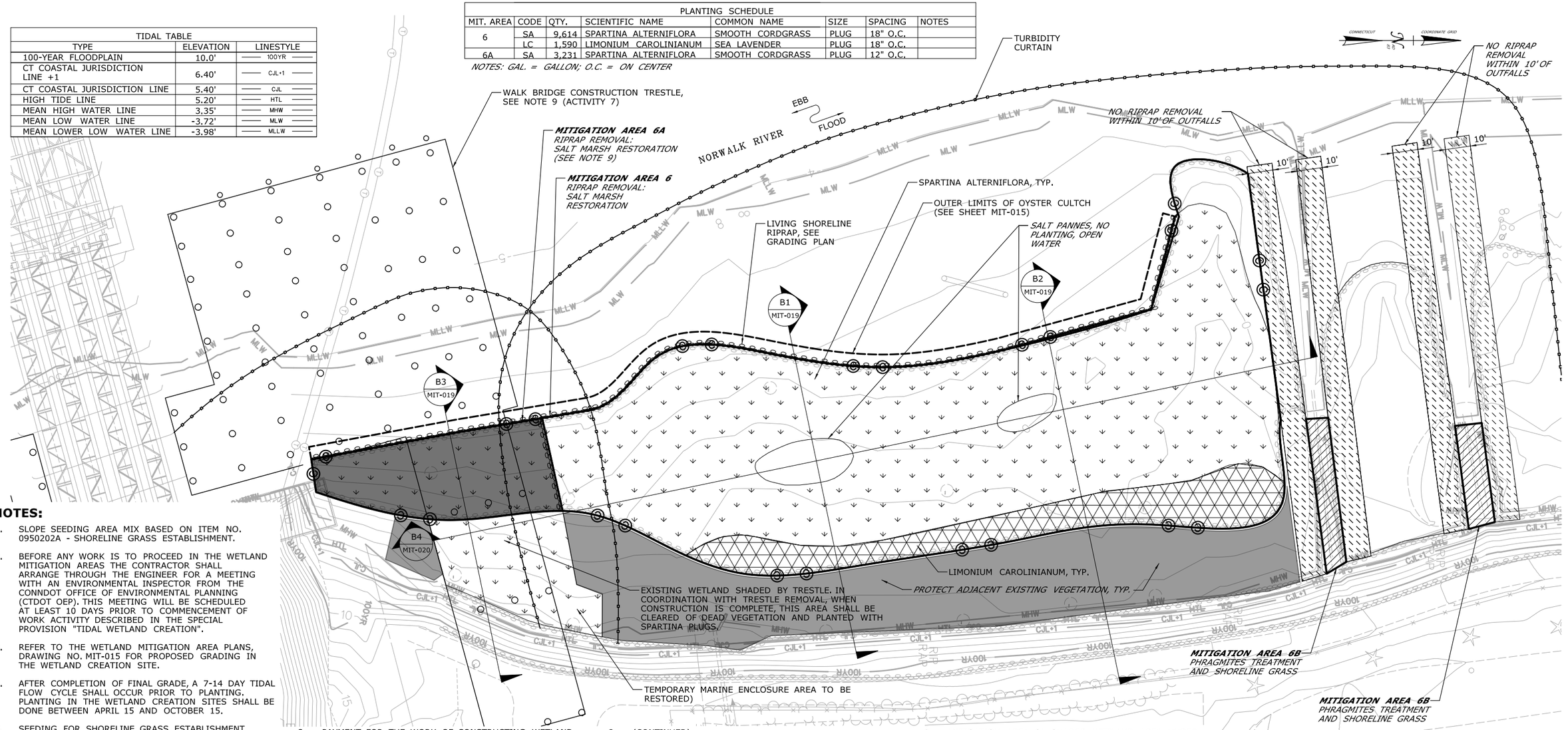
FOR INFORMATION ONLY
MITIGATION SITES OUTSIDE NAVIGATION CHANNEL

SCALE: SCALE IN FEET 0 10 20 SCALE 1" = 20'	DRAWN: V. ROBBINS CHECKED: T. ADINOLFI APPROVED: C. BROWN	SIGNATURE BLOCK:	STATE OF CONNECTICUT DEPARTMENT OF TRANSPORTATION	PROJECT TITLE: WALK BRIDGE REPLACEMENT OVER THE NORWALK RIVER BRIDGE NO. 04288R/MP 41.5	TOWN: NORWALK DRAWING TITLE: ACTIVITY 16 WETLAND MITIGATION (MIT-017)	PROJECT NO.: 0301-0176 DATE: 12-5-19 DRAWING NO.: CA16-17

TIDAL TABLE		
TYPE	ELEVATION	LINESTYLE
100-YEAR FLOODPLAIN	10.0'	100YR
CT COASTAL JURISDICTION LINE +1	6.40'	CJL+1
CT COASTAL JURISDICTION LINE	5.40'	CJL
HIGH TIDE LINE	5.20'	HTL
MEAN HIGH WATER LINE	3.35'	MHW
MEAN LOW WATER LINE	-3.72'	MLW
MEAN LOWER LOW WATER LINE	-3.98'	MLLW

PLANTING SCHEDULE							
MIT. AREA	CODE	QTY.	SCIENTIFIC NAME	COMMON NAME	SIZE	SPACING	NOTES
6	SA	9,614	SPARTINA ALTERNIFLORA	SMOOTH CORDGRASS	PLUG	18" O.C.	
	LC	1,590	LIMONIUM CAROLINIANUM	SEA LAVENDER	PLUG	18" O.C.	
6A	SA	3,231	SPARTINA ALTERNIFLORA	SMOOTH CORDGRASS	PLUG	12" O.C.	

NOTES: GAL. = GALLON; O.C. = ON CENTER



NOTES:

1. SLOPE SEEDING AREA MIX BASED ON ITEM NO. 0950202A - SHORELINE GRASS ESTABLISHMENT.
2. BEFORE ANY WORK IS TO PROCEED IN THE WETLAND MITIGATION AREAS THE CONTRACTOR SHALL ARRANGE THROUGH THE ENGINEER FOR A MEETING WITH AN ENVIRONMENTAL INSPECTOR FROM THE CONNDOT OFFICE OF ENVIRONMENTAL PLANNING (CTDOT OEP). THIS MEETING WILL BE SCHEDULED AT LEAST 10 DAYS PRIOR TO COMMENCEMENT OF WORK ACTIVITY DESCRIBED IN THE SPECIAL PROVISION "TIDAL WETLAND CREATION".
3. REFER TO THE WETLAND MITIGATION AREA PLANS, DRAWING NO. MIT-015 FOR PROPOSED GRADING IN THE WETLAND CREATION SITE.
4. AFTER COMPLETION OF FINAL GRADE, A 7-14 DAY TIDAL FLOW CYCLE SHALL OCCUR PRIOR TO PLANTING. PLANTING IN THE WETLAND CREATION SITES SHALL BE DONE BETWEEN APRIL 15 AND OCTOBER 15.
5. SEEDING FOR SHORELINE GRASS ESTABLISHMENT SHALL COMMENCE UPON COMPLETION OF GRADING AND PLACEMENT OF PLANTING SUBSTRATE/TOPSOIL AND AFTER COMPLETION OF INITIAL INSTALLATION OF ALL PLANTS. THE GRADING AND SEEDING MUST BE PERFORMED WITHIN THE SAME CONSTRUCTION SEASON WITH NO SCHEDULED INACTIVE PERIOD OF MORE THAN 10 WORKDAYS. SEEDS SHALL BE APPLIED BY BROADCAST SPREADING.
6. AN ENVIRONMENTAL INSPECTOR FROM THE CTDOT OEP SHALL INSPECT THE WETLAND CREATION SITES PRIOR TO PLANTING TO DETERMINE THE SITES ARE SUITABLE FOR PLANTING. THE ENVIRONMENTAL INSPECTOR MAY MODIFY THE PLANT LAYOUT FROM THE PLANTING PLAN IF AS-BUILT CONDITIONS POSE A THREAT TO THE SURVIVAL OF PLANTINGS.
7. AUGER OR DIG TO MAKE PLANTING HOLES FOR SHRUBS, AND TRANSPLANT. DO NOT REMOVE PLANTS FROM CONTAINERS UNTIL IMMEDIATELY BEFORE PLANTING. SEPARATE ANY POT-BOUND OR CRAMPED ROOTS AND SPREAD THEM WHEN PLACING THE PLANTS. MACHINERY WILL NOT BE ALLOWED WITHIN THE MITIGATION SITE AT ANY TIME FOR PLANTING.
8. PAYMENT FOR THE WORK OF CONSTRUCTING WETLAND MITIGATION AREAS WILL BE MADE UNDER THE FOLLOWING ITEMS:

   DISPOSAL OF DEBRIS WILL BE PAID UNDER ITEM #0101135A - DISPOSAL OF DEBRIS.

   EXCAVATION TO PERFORM GRADING WILL BE PAID UNDER ITEM #0202000 - EARTH EXCAVATION.

   FURNISHING, PLACING, MAINTAINING AND REMOVING SEDIMENTATION CONTROL SYSTEMS WILL BE PAID UNDER ITEM #0219001 - SEDIMENTATION CONTROL SYSTEM.

   REMOVAL OF INVASIVE PLANT SPECIES WILL BE PAID UNDER #0952051A - CONTROL AND REMOVAL OF INVASIVE VEGETATION.

   FORMATION OF SUBGRADE IN WETLAND CREATION SITES, PROVIDING AND PLACING PLANTING SUBSTRATE/TOPSOIL, REUSING AND REPLACING RIPRAP FOR THE LIVING SHORELINE, PLACEMENT OF OYSTER CULTCH, FURNISHING AND PLACING GRANULAR FILL IN RIPRAP VOIDS, AND FINISH GRADING WILL BE PAID UNDER ITEM #0948013A - TIDAL WETLAND CREATION.

8. (CONTINUED)

   FURNISHING, PLACING AND ESTABLISHING SHORELINE GRASS WILL BE PAID UNDER ITEM #0950202A - SHORELINE GRASS ESTABLISHMENT.

   FURNISHING AND PLACING SHRUBS AND HERBACEOUS PLANTINGS IN THE WETLAND MITIGATION AREAS WILL BE PAID UNDER ITEM #0949875A - WETLAND PLANTINGS. REPLACEMENT OF PLANTINGS IN MITIGATION AREA 6 SHALL BE INCLUDED IN THIS ITEM.

   THE COST OF INSTALLING WETLAND CREATION SIGNS (31-5478) WILL BE PAID FOR UNDER ITEM#1208932A - SIGN FACE - SHEET ALUMINUM (TYPE IV RETROREFLECTIVE SHEETING).

9. MITIGATION AREA 6A, SHADED WETLAND AREA UNDER TRESTLE, AND RESTORED TEMPORARY MARINE ENCLOSURE AREA TO BE COMPLETED LAST, IN COORDINATION WITH THE REMOVAL OF THE WALK BRIDGE CONSTRUCTION TRESTLE. DEAD VEGETATION IN SHADED WETLAND AREA SHALL BE REMOVED AND THE AREA SHALL BE PLANTED WITH SPARTINA PLUGS. CONSTRUCTION ACTIVITIES FOR AREA 6A WILL BE PERFORMED FROM THE NE TRESTLE AS IT GETS REMOVED UPON COMPLETION OF BRIDGE CONSTRUCTION. ACCESS TO AREA 6A AFTER THE CONSTRUCTION TRESTLE IS REMOVED WILL BE ALONG THE EXISTING MULTI-USE TRAIL FROM THE CONSTRUCTION STAGING AREA WITHIN CTDOT RIGHT OF WAY ON THE NORTH SIDE OF THE EAST APROACH TO WALK BRIDGE.

LEGEND:

- SPARTINA ALTERNIFLORA (SMOOTH CORDGRASS)
- LIMONIUM CAROLINIANUM (SEA LAVENDER)
- SHORELINE GRASS ESTABLISHMENT
- OUTER LIMITS OF OYSTER CULTCH
- MITIGATION AREA BOUNDARY
- APPROXIMATE SLOPE LIMITS
- NO RIPRAP REMOVAL
- EXISTING VEGETATION PROTECTION
- MITIGATION AREA 6A

FOR INFORMATION ONLY
MITIGATION SITES OUTSIDE NAVIGATION CHANNEL

SCALE: SCALE IN FEET 0 20 40 — SCALE 1" = 40'

DRAWN: V. ROBBINS
CHECKED: T. ADINOLFI
APPROVED: C. BROWN

SIGNATURE BLOCK:

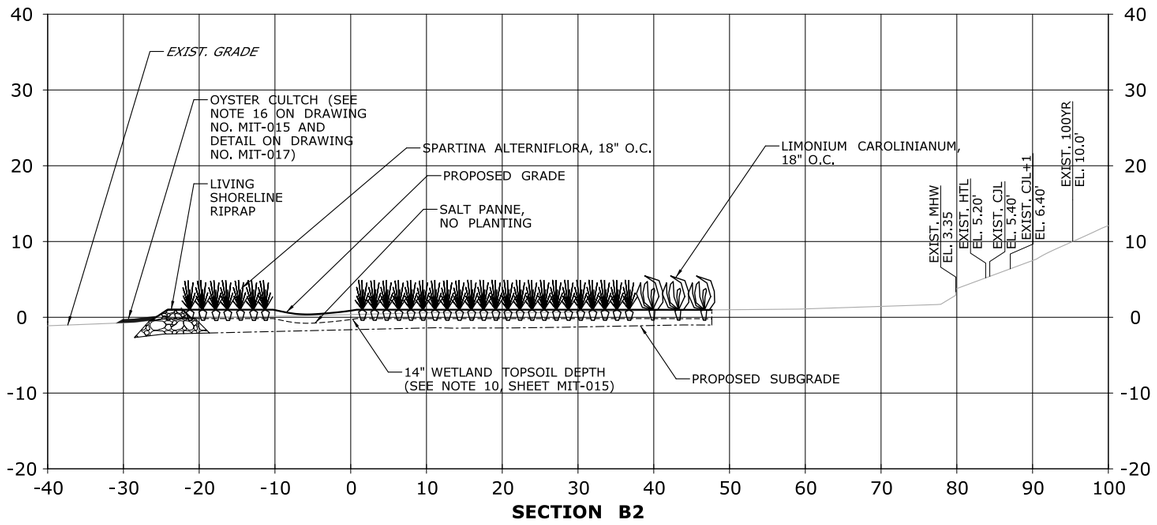
STATE OF CONNECTICUT
DEPARTMENT OF TRANSPORTATION

PROJECT TITLE: **WALK BRIDGE REPLACEMENT OVER THE NORWALK RIVER BRIDGE NO. 04288R/MP 41.5**

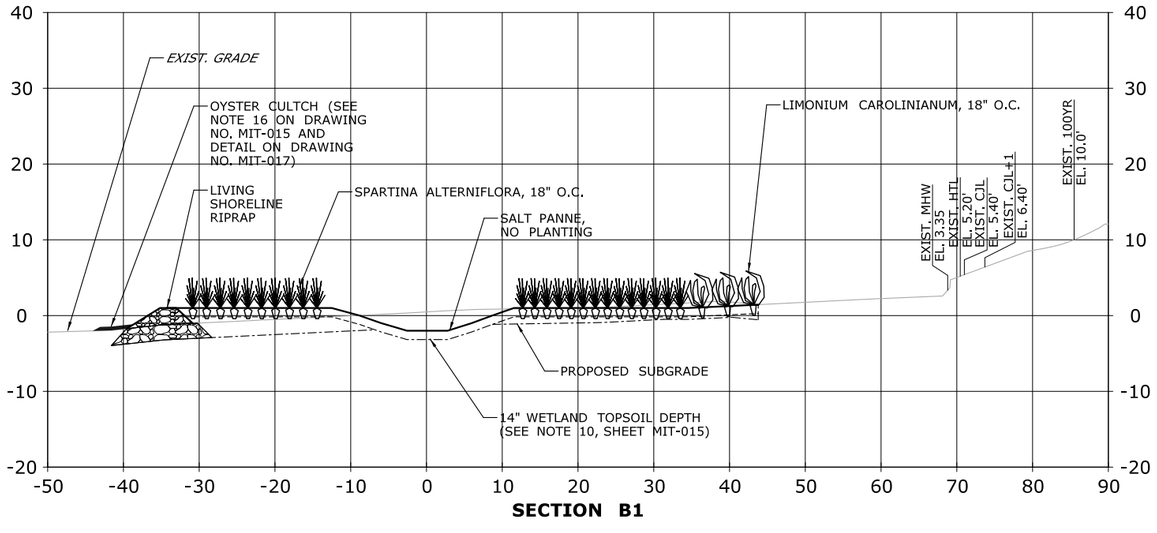
TOWN: **NORWALK**

DRAWING TITLE: **ACTIVITY 16 WETLAND MITIGATION (MIT-018)**

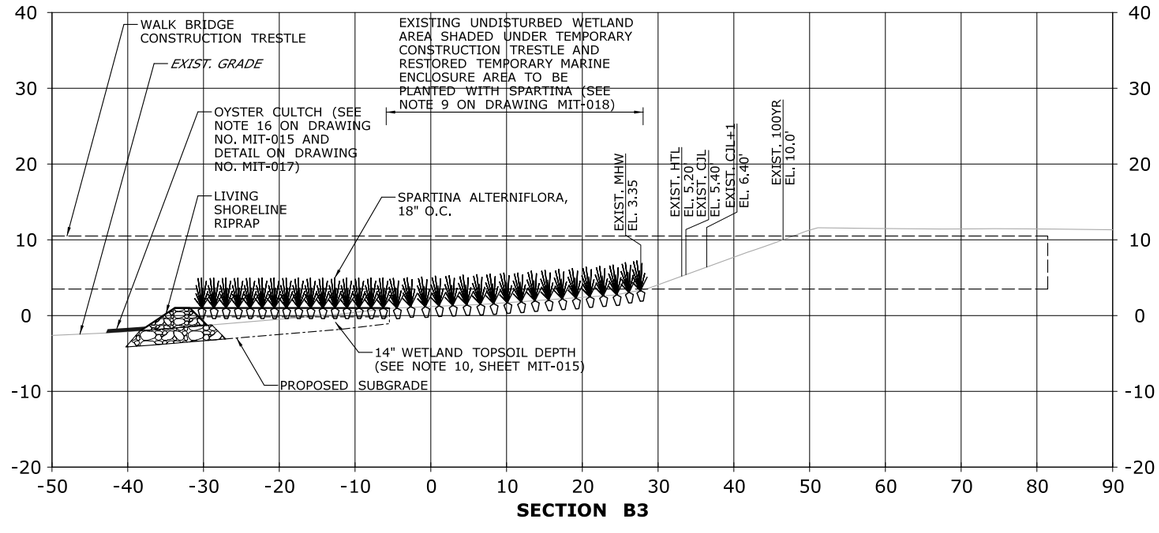
PROJECT NO.: **0301-0176**
DATE: **12-5-19**
DRAWING NO.: **CA16-18**



SECTION B2



SECTION B1



SECTION B3

NOTES:

1. SEE MIT-018 MITIGATION AREA 6 PLANTING PLAN
2. SEE GRADING DRAWING (MIT-015) AND SECTIONS (MIT-016 AND MIT-017) FOR OVEREXCAVATION DEPTHS AND LIMITS.

LEGEND:

CJL+1= CT COASTAL JURISDICTION LINE +1
CJL = CT COSTAL JURISDICTION LINE
HTL = HIGH TIDE LINE
MHW = MEAN HIGH WATER LINE
EL = ELEVATION
O.C. = ON CENTER
YR = YEAR

FOR INFORMATION ONLY
MITIGATION SITES OUTSIDE NAVIGATION CHANNEL

SCALE:
SCALE IN FEET
0 10 20
SCALE 1" = 20'

DRAWN: V. ROBBINS
CHECKED: T. ADINOLFI
APPROVED: C. BROWN

SIGNATURE BLOCK:

STATE OF CONNECTICUT
DEPARTMENT OF TRANSPORTATION

PROJECT TITLE:
WALK BRIDGE REPLACEMENT OVER THE NORWALK RIVER BRIDGE NO. 04288R/MP 41.5

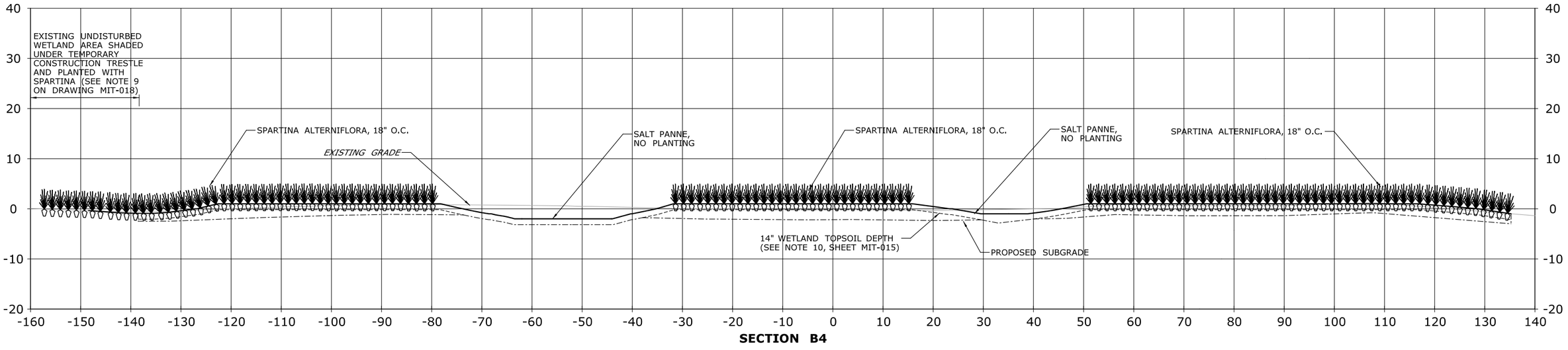
TOWN: **NORWALK**
PROJECT NO.: **0301-0176**
DRAWING TITLE: **ACTIVITY 16 WETLAND MITIGATION (MIT-019)**
DATE: **12-5-19**
DRAWING NO.: **CA16-19**

NOTES:

1. SEE MIT-018 MITIGATION AREA 6 PLANTING PLAN
2. SEE GRADING DRAWING (MIT-015) AND SECTIONS (MIT-016 AND MIT-017) FOR OVEREXCAVATION DEPTHS AND LIMITS.

LEGEND:

O.C. = ON CENTER



SECTION B4

FOR INFORMATION ONLY
MITIGATION SITES OUTSIDE NAVIGATION CHANNEL

SCALE:
SCALE IN FEET
0 10 20
SCALE 1" = 20'

DRAWN: V. ROBBINS
CHECKED: T. ADINOLFI
APPROVED: C. BROWN

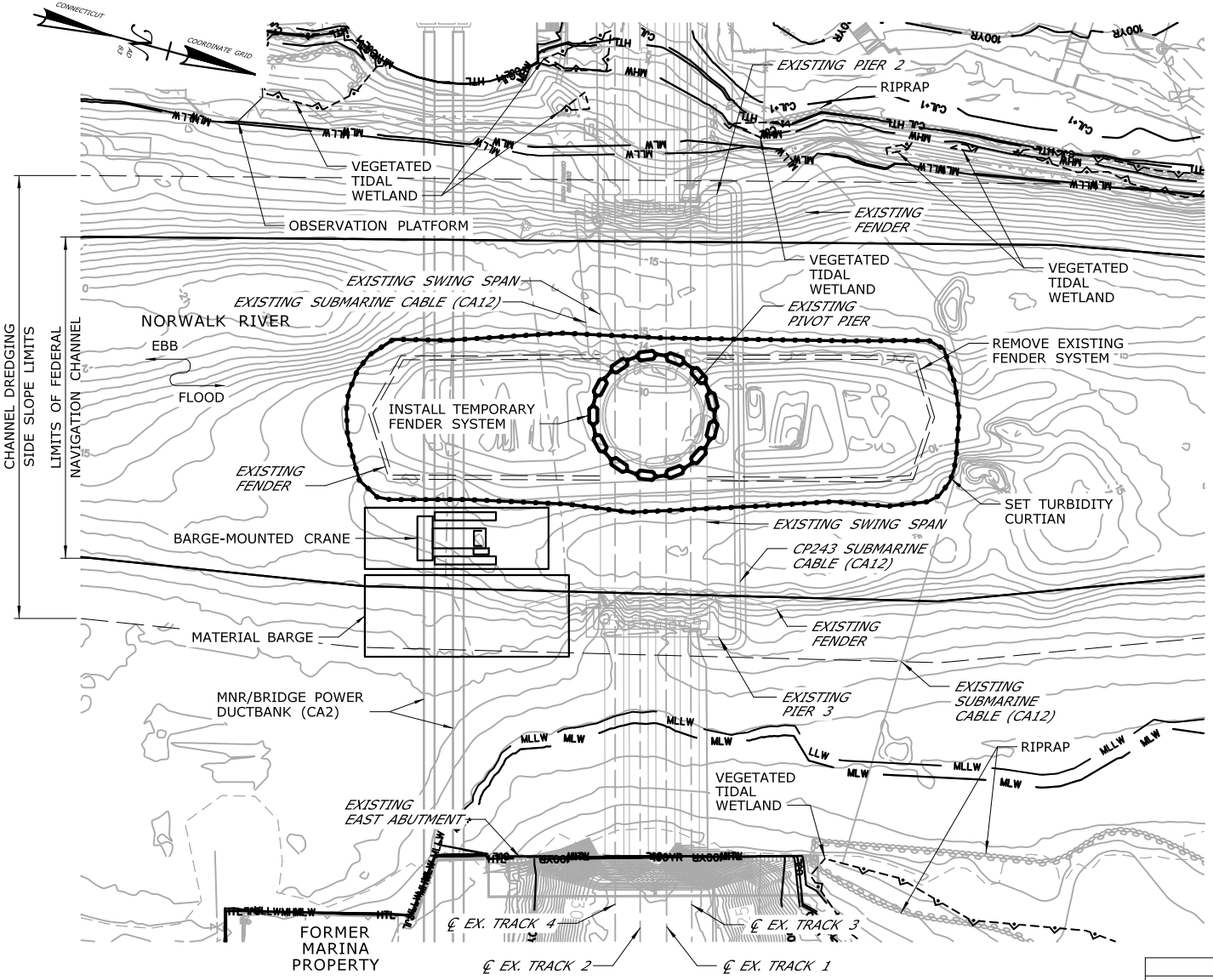
SIGNATURE BLOCK:

STATE OF CONNECTICUT
DEPARTMENT OF TRANSPORTATION

PROJECT TITLE:
WALK BRIDGE REPLACEMENT OVER THE NORWALK RIVER BRIDGE NO. 04288R/MP 41.5

TOWN: **NORWALK**
DRAWING TITLE: **ACTIVITY 16 WETLAND MITIGATION (MIT-020)**

PROJECT NO.: **0301-0176**
DATE: **12-5-19**
DRAWING NO.: **CA16-20**



PLAN

CONSTRUCTION SEQUENCE

THE SHEETS IN THIS SUBSET DESCRIBE THE SEQUENCE OF ACTIVITIES REQUIRED TO DREDGE THE RIVER WITH REFERENCES TO RELATED ACTIVITIES THROUGHOUT. FOR DETAILS OF RELATED ACTIVITIES, REFER TO THE SUBSETS NOTED IN PARENTHESES. WORK DEPICTED ON THIS SHEET IS IDENTIFIED WITH AN "X" IN THE TABLE.

	WORK DESCRIPTION
X	SET TURBIDITY CURTAIN.
X	REMOVE EXISTING FENDER SYSTEM. INSTALL TEMPORARY FENDER SYSTEM.
	MOBILIZE BARGES AND EQUIPMENT TO SOUTH SIDE OF BRIDGE. SET TURBIDITY CURTAIN.
	DREDGE CHANNEL ON SOUTH SIDE OF BRIDGE.
	MOBILIZE BARGES AND EQUIPMENT TO NORTH SIDE OF BRIDGE. SET TURBIDITY CURTAIN.
	DREDGE CHANNEL ON NORTH SIDE OF BRIDGE.

NOTES:

1. SEE VESSEL BERTHING PLAN (DWG. GEN-9) FOR TYPICAL BARGE SIZES.

ELEVATION TABLE			
DESCRIPTION	CONTOUR	ELEVATION (NAVD88)	ELEVATION (MLLW)
100-YEAR FLOODPLAIN	100 YR	10.0/12.0	13.98/15.98
MAX. ELEVATION OF LAND CAPABLE OF SUPPORTING TIDAL VEGETATION	CJL+1	6.4	10.38
CT COASTAL JURISDICTION LINE	CJL	5.4	9.38
HIGH TIDE LINE	HTL	5.2	9.18
MEAN HIGH WATER LINE	MHW	3.35	7.33
MEAN LOW WATER LINE	MLW	-3.72	0.26
MEAN LOWER LOW WATER LINE	MLLW	-3.98	0

SCALE:
SCALE 1" = 80'
0 40 80

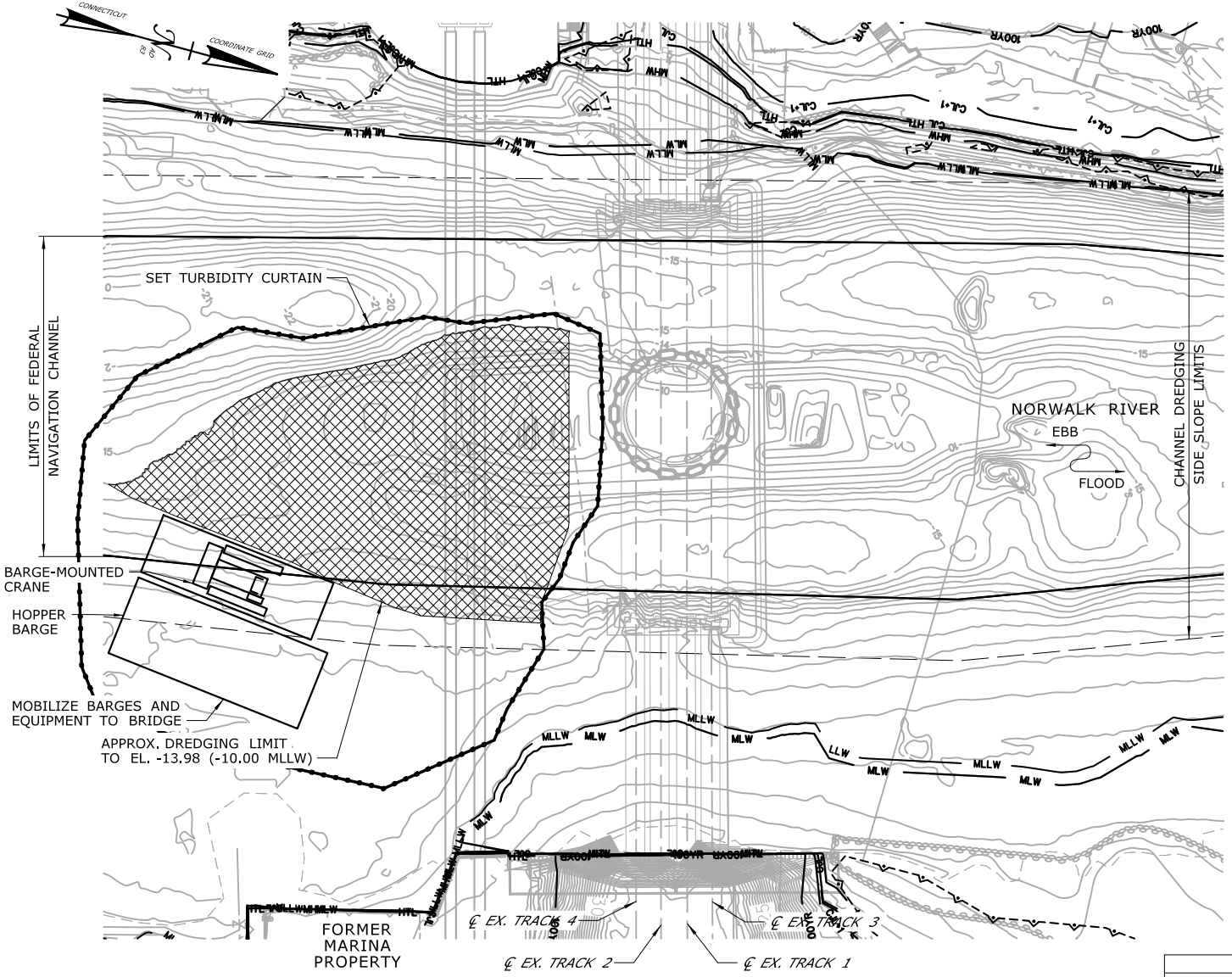
DRAWN: W. GREGORY
CHECKED: T. ADINOLFI
APPROVED: C. BROWN

SIGNATURE BLOCK:

STATE OF CONNECTICUT
DEPARTMENT OF TRANSPORTATION

PROJECT TITLE:
WALK BRIDGE REPLACEMENT OVER THE NORWALK RIVER BRIDGE NO. 04288R/MP 41.5

TOWN: **NORWALK**
PROJECT NO.: **0301-0176**
DRAWING TITLE: **ACTIVITY 17 DREDGING OPERATIONS (SHEET 1 OF 7)**
DATE: **REV 02-23-21**
DRAWING NO.: **CA17-1**



PLAN

CONSTRUCTION SEQUENCE

THE SHEETS IN THIS SUBSET DESCRIBE THE SEQUENCE OF ACTIVITIES REQUIRED TO DREDGE THE RIVER WITH REFERENCES TO RELATED ACTIVITIES THROUGHOUT. FOR DETAILS OF RELATED ACTIVITIES, REFER TO THE SUBSETS NOTED IN PARENTHESES. WORK DEPICTED ON THIS SHEET IS IDENTIFIED WITH AN "X" IN THE TABLE.

	WORK DESCRIPTION
	SET TURBIDITY CURTAIN.
	REMOVE EXISTING FENDER SYSTEM. INSTALL TEMPORARY FENDER SYSTEM.
X	MOBILIZE BARGES AND EQUIPMENT TO SOUTH SIDE OF BRIDGE. SET TURBIDITY CURTAIN.
X	DREDGE CHANNEL ON SOUTH SIDE OF BRIDGE.
	MOBILIZE BARGES AND EQUIPMENT TO NORTH SIDE OF BRIDGE. SET TURBIDITY CURTAIN.
	DREDGE CHANNEL ON NORTH SIDE OF BRIDGE.

NOTES:

1. VERTICAL DATUM IS NAVD 88. ELEVATIONS RELATIVE TO MLLW TIDAL DATUM ARE SHOWN IN PARENTHESES.
2. EXCAVATED MATERIAL AND DEWATERED WASTEWATERS SHALL BE MANAGED IN ACCORDANCE WITH THE ENVIRONMENTAL SPECIAL PROVISIONS AND CTDEEP REQUIREMENTS.
3. WEST CHANNEL MAY BE PARTIALLY RESTRICTED FOR A PERIOD OF TIME BUT WILL OTHERWISE REMAIN OPEN DURING THIS WORK. TEMPORARY AIDS TO NAVIGATION (E.G., LIGHTS) WILL BE COORDINATED WITH THE USCG.
4. SEE VESSEL BERTHING PLAN (DWG. GEN-9) FOR TYPICAL BARGE SIZES.

ELEVATION TABLE			
DESCRIPTION	CONTOUR	ELEVATION (NAVD88)	ELEVATION (MLLW)
100-YEAR FLOODPLAIN	100 YR	10.0/12.0	13.98/15.98
MAX. ELEVATION OF LAND CAPABLE OF SUPPORTING TIDAL VEGETATION	CJL+1	6.4	10.38
CT COASTAL JURISDICTION LINE	CJL	5.4	9.38
HIGH TIDE LINE	HTL	5.2	9.18
MEAN HIGH WATER LINE	MHW	3.35	7.33
MEAN LOW WATER LINE	MLW	-3.72	0.26
MEAN LOWER LOW WATER LINE	MLLW	-3.98	0

SCALE: SCALE 1" = 80' (0 40 80)

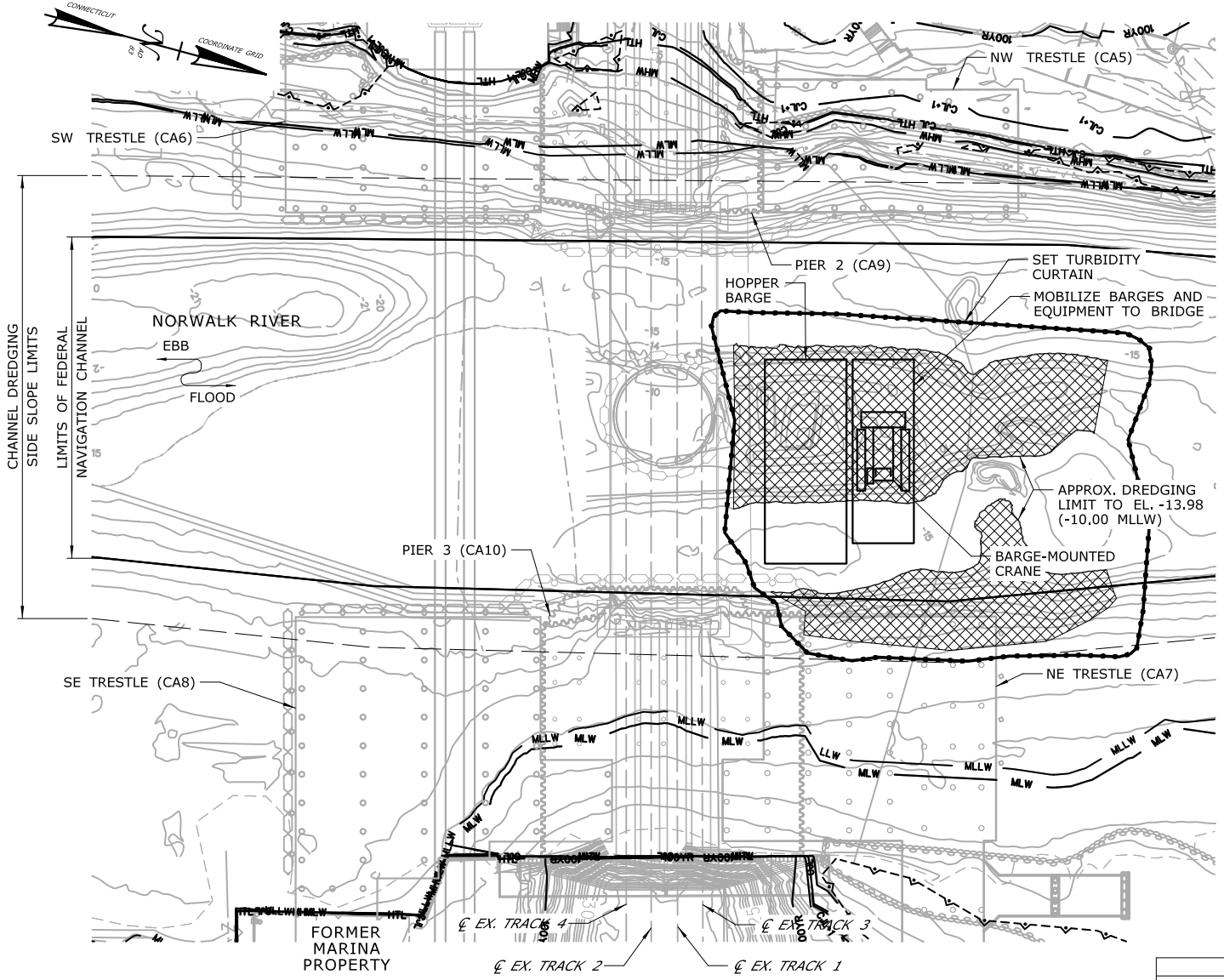
DRAWN: W. GREGORY
CHECKED: T. ADINOLFI
APPROVED: C. BROWN

SIGNATURE BLOCK:

STATE OF CONNECTICUT
DEPARTMENT OF TRANSPORTATION

PROJECT TITLE:
WALK BRIDGE REPLACEMENT OVER THE NORWALK RIVER BRIDGE NO. 04288R/MP 41.5

TOWN: **NORWALK**
PROJECT NO.: **0301-0176**
DRAWING TITLE: **ACTIVITY 17 DREDGING OPERATIONS (SHEET 2 OF 7)**
DATE: **REV 02-23-21**
DRAWING NO.: **CA17-2**



PLAN

CONSTRUCTION SEQUENCE

THE SHEETS IN THIS SUBSET DESCRIBE THE SEQUENCE OF ACTIVITIES REQUIRED TO DREDGE THE RIVER WITH REFERENCES TO RELATED ACTIVITIES THROUGHOUT. FOR DETAILS OF RELATED ACTIVITIES, REFER TO THE SUBSETS NOTED IN PARENTHESES. WORK DEPICTED ON THIS SHEET IS IDENTIFIED WITH AN "X" IN THE TABLE.

	WORK DESCRIPTION
	SET TURBIDITY CURTAIN.
	REMOVE EXISTING FENDER SYSTEM. INSTALL TEMPORARY FENDER SYSTEM.
	MOBILIZE BARGES AND EQUIPMENT TO SOUTH SIDE OF BRIDGE. SET TURBIDITY CURTAIN.
	DREDGE CHANNEL ON SOUTH SIDE OF BRIDGE.
X	MOBILIZE BARGES AND EQUIPMENT TO NORTH SIDE OF BRIDGE. SET TURBIDITY CURTAIN.
X	DREDGE CHANNEL ON NORTH SIDE OF BRIDGE.

NOTES:

1. VERTICAL DATUM IS NAVD 88. ELEVATIONS RELATIVE TO MLLW TIDAL DATUM ARE SHOWN IN PARENTHESES.
2. EXCAVATED MATERIAL AND DEWATERED WASTEWATERS SHALL BE MANAGED IN ACCORDANCE WITH THE ENVIRONMENTAL SPECIAL PROVISIONS AND CTDEEP REQUIREMENTS.
3. WEST CHANNEL MAY BE PARTIALLY RESTRICTED FOR A PERIOD OF TIME BUT WILL OTHERWISE REMAIN OPEN DURING THIS WORK. TEMPORARY AIDS TO NAVIGATION (E.G., LIGHTS) WILL BE COORDINATED WITH THE USCG.
4. DREDGING REQUIRED AROUND THE EXISTING PIERS WILL TAKE PLACE WITHIN MARINE ENCLOSURES IN CONJUNCTION WITH PIER REMOVAL. SEE ACTIVITY 14.
5. SEE VESSEL BERTHING PLAN (DWG. GEN-9) FOR TYPICAL BARGE SIZES.

ELEVATION TABLE			
DESCRIPTION	CONTOUR	ELEVATION (NAVD88)	ELEVATION (MLLW)
100-YEAR FLOODPLAIN	100 YR	10.0/12.0	13.98/15.98
MAX. ELEVATION OF LAND CAPABLE OF SUPPORTING TIDAL VEGETATION	CJL+1	6.4	10.38
CT COASTAL JURISDICTION LINE	CJL	5.4	9.38
HIGH TIDE LINE	HTL	5.2	9.18
MEAN HIGH WATER LINE	MHW	3.35	7.33
MEAN LOW WATER LINE	MLW	-3.72	0.26
MEAN LOWER LOW WATER LINE	MLLW	-3.98	0

SCALE: SCALE 1" = 80' (0, 40, 80)

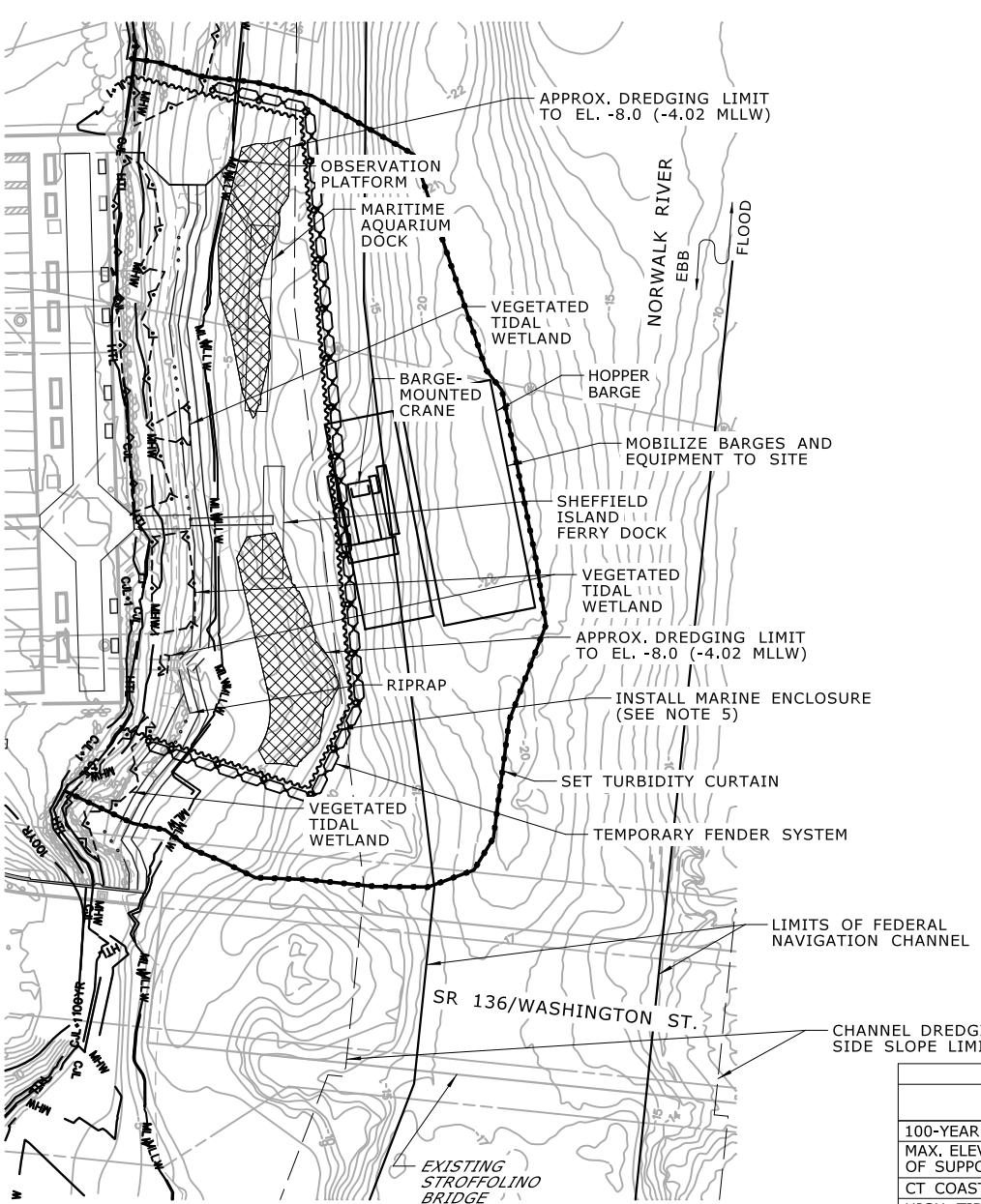
DRAWN: W. GREGORY
CHECKED: T. ADINOLFI
APPROVED: C. BROWN

SIGNATURE BLOCK:

STATE OF CONNECTICUT
DEPARTMENT OF TRANSPORTATION

PROJECT TITLE: WALK BRIDGE REPLACEMENT OVER THE NORWALK RIVER BRIDGE NO. 04288R/MP 41.5

TOWN: NORWALK
PROJECT NO.: 0301-0176
DRAWING TITLE: ACTIVITY 17 DREDGING OPERATIONS (SHEET 3 OF 7)
DATE: REV 02-23-21
DRAWING NO.: CA17-3



PLAN

CONSTRUCTION SEQUENCE

THE SHEETS IN THIS SUBSET DESCRIBE THE SEQUENCE OF ACTIVITIES REQUIRED TO DREDGE THE RIVER WITH REFERENCES TO RELATED ACTIVITIES THROUGHOUT. FOR DETAILS OF RELATED ACTIVITIES, REFER TO THE SUBSETS NOTED IN PARENTHESES. WORK DEPICTED ON THIS SHEET IS IDENTIFIED WITH AN "X" IN THE TABLE.

WORK DESCRIPTION	
X	MOBILIZE BARGES AND EQUIPMENT TO VESSEL DOCKS.
X	SET TURBIDITY CURTAIN AND INSTALL MARINE ENCLOSURE.
X	DREDGE ALONG SHORELINE.

NOTES:

1. VERTICAL DATUM IS NAVD 88. ELEVATIONS RELATIVE TO MLLW TIDAL DATUM ARE SHOWN IN PARENTHESES.
2. EXISTING DOCK LOCATIONS SHOWN FOR REFERENCE. DOCKS WILL BE REMOVED PRIOR TO DREDGING. SEE ACTIVITY 3.
3. EXCAVATED MATERIAL AND DEWATERED WASTEWATERS SHALL BE MANAGED IN ACCORDANCE WITH THE ENVIRONMENTAL SPECIAL PROVISIONS AND CTDEEP REQUIREMENTS.
4. SEE VESSEL BERTHING PLAN (DWG. GEN-9) FOR TYPICAL BARGE SIZES.
5. MARINE ENCLOSURE WILL ONLY BE REQUIRED IF DREDGING OCCURS OUTSIDE THE MONTHS OF DECEMBER AND JANUARY.
6. DREDGING WILL NOT OCCUR AT THIS LOCATION WHILE THE SHEFFIELD ISLAND FERRY AND MARITIME AQUARIUM DOCK ARE IN USE.

ELEVATION TABLE

DESCRIPTION	CONTOUR	ELEVATION (NAVD88)	ELEVATION (MLLW)
100-YEAR FLOODPLAIN	100 YR	12.0	15.98
MAX. ELEVATION OF LAND CAPABLE OF SUPPORTING TIDAL VEGETATION	CJL+1	6.4	10.38
CT COASTAL JURISDICTION LINE	CJL	5.4	9.38
HIGH TIDE LINE	HTL	5.2	9.18
MEAN HIGH WATER LINE	MHW	3.35	7.33
MEAN LOW WATER LINE	MLW	-3.72	0.26
MEAN LOWER LOW WATER LINE	MLLW	-3.98	0

SCALE: SCALE 1" = 80' (0 40 80)

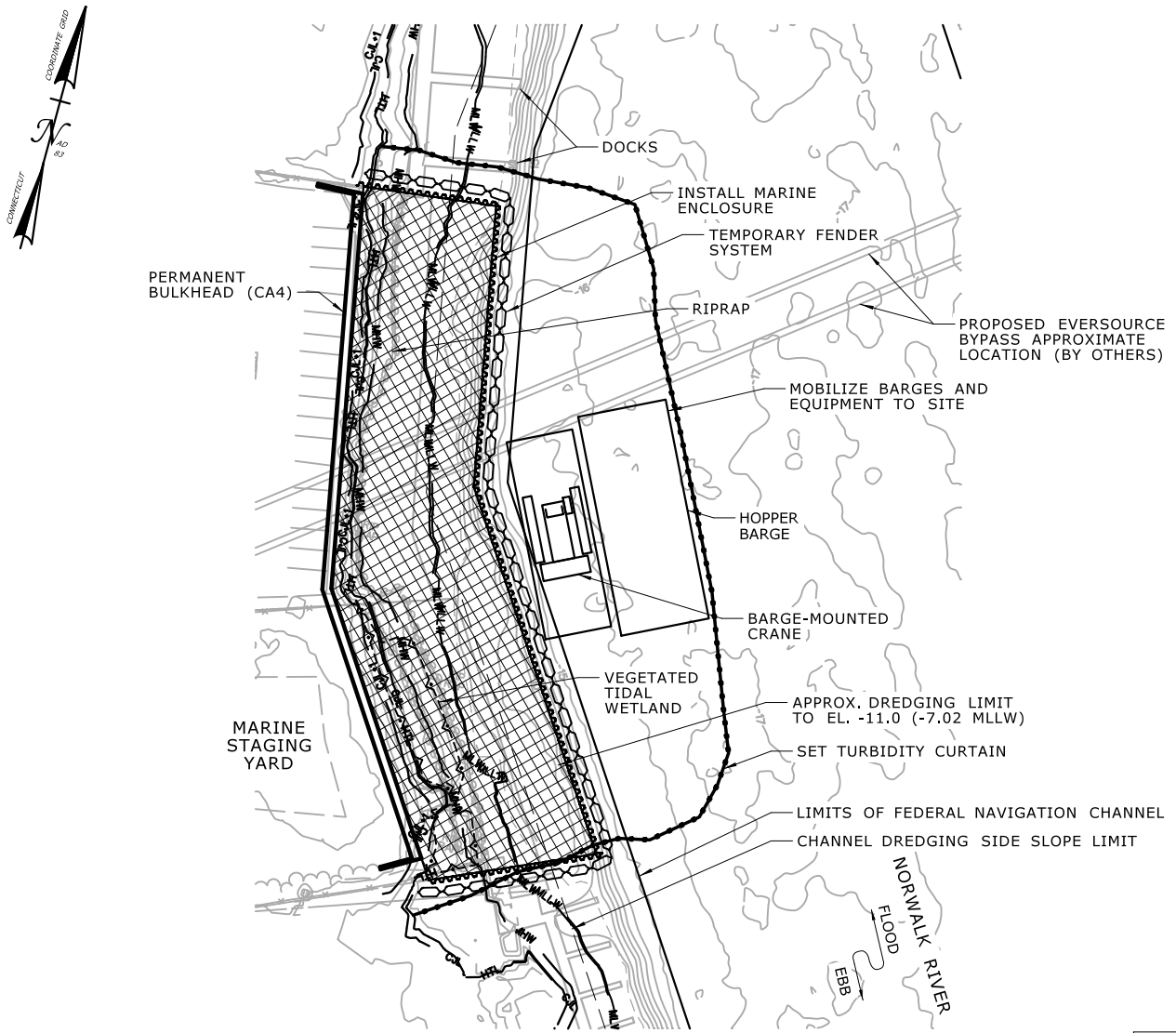
DRAWN: W. GREGORY
CHECKED: T. ADINOLFI
APPROVED: C. BROWN

SIGNATURE BLOCK:

STATE OF CONNECTICUT
DEPARTMENT OF TRANSPORTATION

PROJECT TITLE:
WALK BRIDGE REPLACEMENT OVER THE NORWALK RIVER BRIDGE NO. 04288R/MP 41.5

TOWN: **NORWALK**
PROJECT NO.: **0301-0176**
DRAWING TITLE: **ACTIVITY 17 DREDGING OPERATIONS (SHEET 4 OF 7)**
DATE: **REV 02-23-21**
DRAWING NO.: **CA17-4**



PLAN

CONSTRUCTION SEQUENCE

THE SHEETS IN THIS SUBSET DESCRIBE THE SEQUENCE OF ACTIVITIES REQUIRED TO DREDGE THE RIVER WITH REFERENCES TO RELATED ACTIVITIES THROUGHOUT. FOR DETAILS OF RELATED ACTIVITIES, REFER TO THE SUBSETS NOTED IN PARENTHESES. WORK DEPICTED ON THIS SHEET IS IDENTIFIED WITH AN "X" IN THE TABLE.

	WORK DESCRIPTION
X	MOBILIZE BARGES AND EQUIPMENT TO MARINE STAGING YARD.
X	SET TURBIDITY CURTAIN AND INSTALL MARINE ENCLOSURE.
X	DREDGE ALONG IN FRONT OF BULKHEAD.

NOTES:

1. VERTICAL DATUM IS NAVD 88. ELEVATIONS RELATIVE TO MLLW TIDAL DATUM ARE SHOWN IN PARENTHESES.
2. EXCAVATED MATERIAL AND DEWATERED WASTEWATERS SHALL BE MANAGED IN ACCORDANCE WITH THE ENVIRONMENTAL SPECIAL PROVISIONS AND CTDEEP REQUIREMENTS.
3. EXISTING TIMBER PILES, RIPRAP, AND DEBRIS ALONG SHORELINE WILL BE REMOVED PRIOR TO DREDGING. PERMANENT SHEETPILE BULKHEAD WILL BE INSTALLED PRIOR TO DREDGING. SEE ACTIVITY 4.
4. SEE VESSEL BERTHING PLAN (DWG. GEN-9) FOR TYPICAL BARGE SIZES.
5. MARINE ENCLOSURE WILL ONLY BE REQUIRED IF DREDGING OCCURS OUTSIDE THE MONTHS OF DECEMBER AND JANUARY.

ELEVATION TABLE			
DESCRIPTION	CONTOUR	ELEVATION (NAVD88)	ELEVATION (MLLW)
100-YEAR FLOODPLAIN	100 YR	14.0	17.98
MAX. ELEVATION OF LAND CAPABLE OF SUPPORTING TIDAL VEGETATION	CJL+1	6.4	10.38
CT COASTAL JURISDICTION LINE	CJL	5.4	9.38
HIGH TIDE LINE	HTL	5.2	9.18
MEAN HIGH WATER LINE	MHW	3.35	7.33
MEAN LOW WATER LINE	MLW	-3.72	0.26
MEAN LOWER LOW WATER LINE	MLLW	-3.98	0

SCALE: SCALE 1" = 80' (0 40 80)

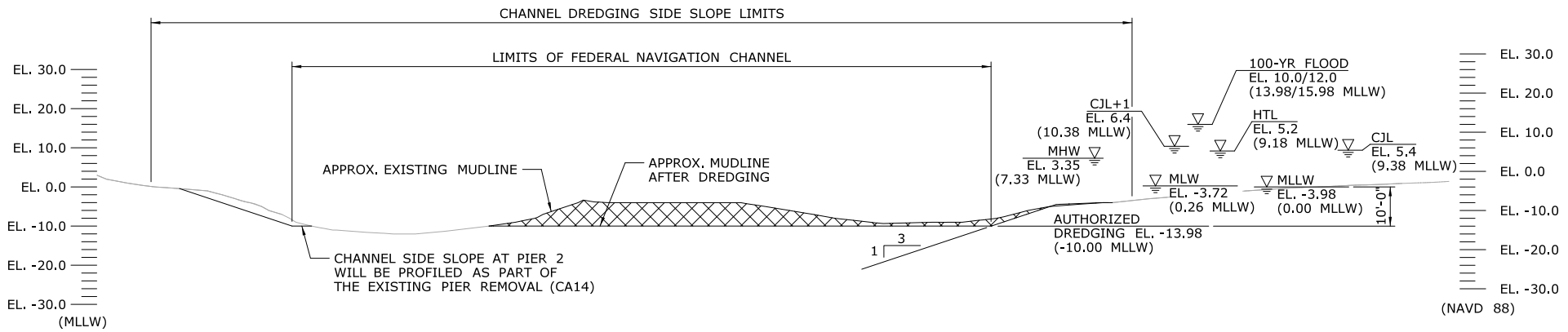
DRAWN: W. GREGORY
CHECKED: T. ADINOLFI
APPROVED: C. BROWN

SIGNATURE BLOCK:

STATE OF CONNECTICUT
DEPARTMENT OF TRANSPORTATION

PROJECT TITLE: WALK BRIDGE REPLACEMENT OVER THE NORWALK RIVER BRIDGE NO. 04288R/MP 41.5

TOWN: NORWALK
PROJECT NO.: 0301-0176
DRAWING TITLE: ACTIVITY 17 DREDGING OPERATIONS (SHEET 5 OF 7)
DATE: REV 05-19-21
DRAWING NO.: CA17-5



TYPICAL SECTION AT BRIDGE

NOTES:

1. VERTICAL DATUM IS NAVD 88. ELEVATIONS RELATIVE TO MLLW TIDAL DATUM ARE SHOWN IN PARENTHESES.
2. EXCAVATED MATERIAL AND DEWATERED WASTEWATERS SHALL BE MANAGED IN ACCORDANCE WITH THE ENVIRONMENTAL SPECIAL PROVISIONS AND CTDEEP REQUIREMENTS.

ELEVATION TABLE			
DESCRIPTION	CONTOUR	ELEVATION (NAVD88)	ELEVATION (MLLW)
100-YEAR FLOODPLAIN	100 YR	10.0/12.0	13.98/15.98
MAX. ELEVATION OF LAND CAPABLE OF SUPPORTING TIDAL VEGETATION	CJL+1	6.4	10.38
CT COASTAL JURISDICTION LINE	CJL	5.4	9.38
HIGH TIDE LINE	HTL	5.2	9.18
MEAN HIGH WATER LINE	MHW	3.35	7.33
MEAN LOW WATER LINE	MLW	-3.72	0.26
MEAN LOWER LOW WATER LINE	MLLW	-3.98	0

SCALE: SCALE 1" = 40' (0, 20, 40)

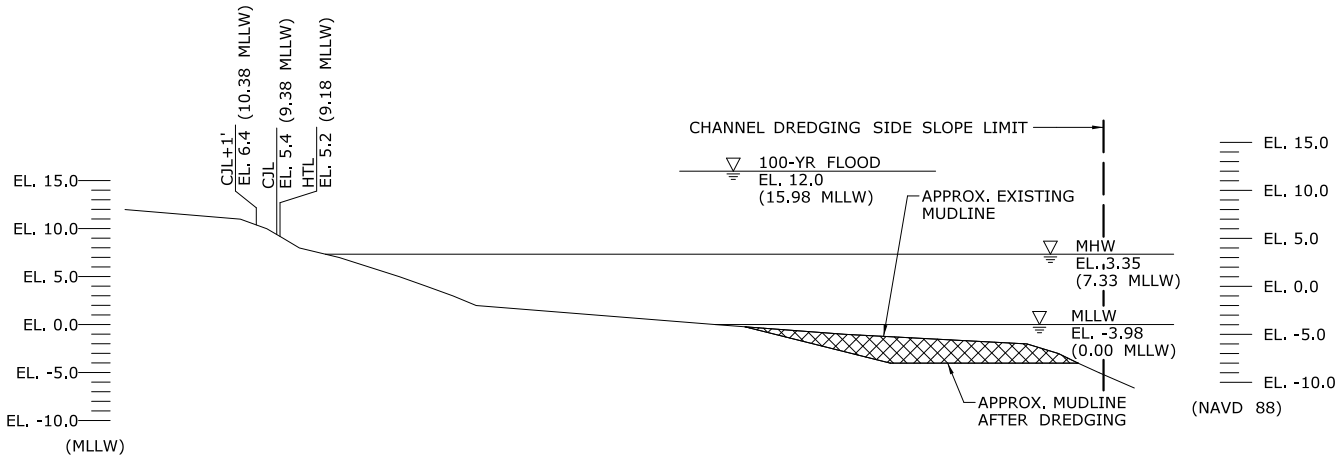
DRAWN: W. GREGORY
CHECKED: T. ADFINOLFI
APPROVED: C. BROWN

SIGNATURE BLOCK:

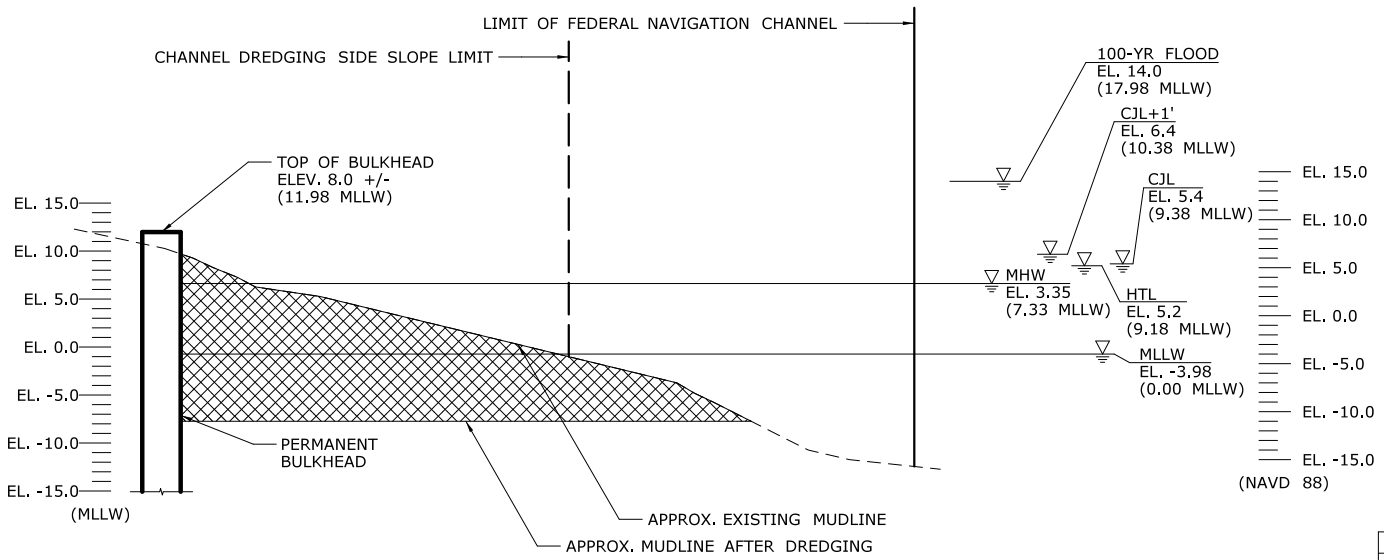
STATE OF CONNECTICUT
DEPARTMENT OF TRANSPORTATION

PROJECT TITLE:
WALK BRIDGE REPLACEMENT OVER THE NORWALK RIVER BRIDGE NO. 04288R/MP 41.5

TOWN: **NORWALK**
PROJECT NO.: **0301-0176**
DRAWING TITLE: **ACTIVITY 17 DREDGING OPERATIONS (SHEET 6 OF 7)**
DATE: **REV 02-23-21**
DRAWING NO.: **CA17-6**



TYPICAL SECTION AT VESSEL DOCKS



TYPICAL SECTION AT MARINE STAGING YARD

NOTES:

1. VERTICAL DATUM IS NAVD 88. ELEVATIONS RELATIVE TO MLLW TIDAL DATUM ARE SHOWN IN PARENTHESES.
2. EXCAVATED MATERIAL AND DEWATERED WASTEWATERS SHALL BE MANAGED IN ACCORDANCE WITH THE ENVIRONMENTAL SPECIAL PROVISIONS AND CTDEEP REQUIREMENTS.

ELEVATION TABLE

DESCRIPTION	CONTOUR	ELEVATION (NAVD88)	ELEVATION (MLLW)
100-YEAR FLOODPLAIN	100 YR	12.0/14.0	15.98/17.98
MAX. ELEVATION OF LAND CAPABLE OF SUPPORTING TIDAL VEGETATION	CJL+1	6.4	10.38
CT COASTAL JURISDICTION LINE	CJL	5.4	9.38
HIGH TIDE LINE	HTL	5.2	9.18
MEAN HIGH WATER LINE	MHW	3.35	7.33
MEAN LOW WATER LINE	MLW	-3.72	0.26
MEAN LOWER LOW WATER LINE	MLLW	-3.98	0

SCALE: SCALE 1" = 20' (0, 10, 20)

DRAWN: W. GREGORY

CHECKED: T. ADINOLFI

APPROVED: C. BROWN

SIGNATURE BLOCK:

STATE OF CONNECTICUT
DEPARTMENT OF TRANSPORTATION

PROJECT TITLE:
WALK BRIDGE REPLACEMENT OVER THE NORWALK RIVER BRIDGE NO. 04288R/MP 41.5

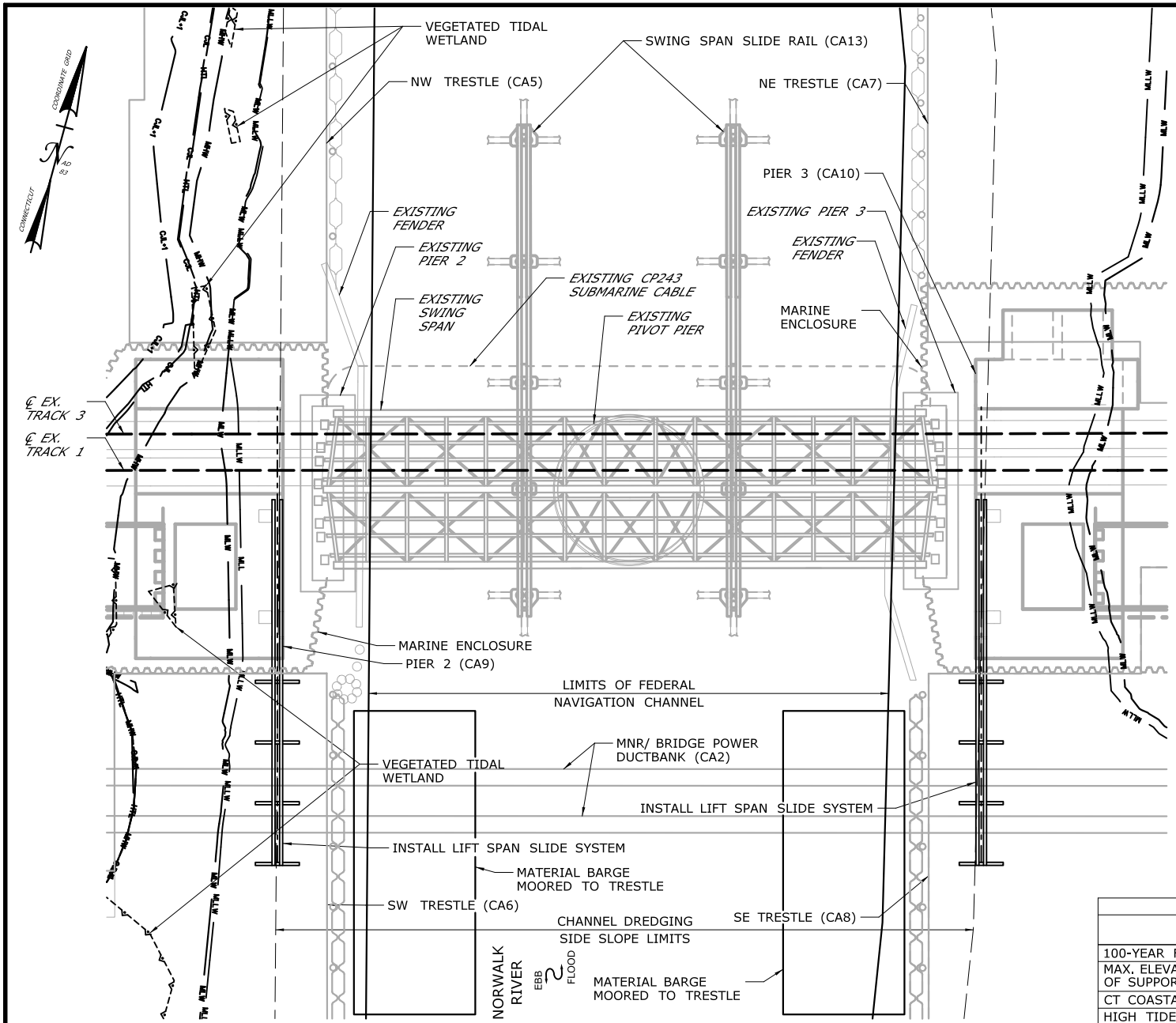
TOWN: **NORWALK**

PROJECT NO.: **0301-0176**

DRAWING TITLE: **ACTIVITY 17 DREDGING OPERATIONS (SHEET 7 OF 7)**

DATE: **REV 02-23-21**

DRAWING NO.: **CA17-7**



PLAN

CONSTRUCTION SEQUENCE

THE SHEETS IN THIS SUBSET DESCRIBE THE SEQUENCE OF ACTIVITIES REQUIRED TO INSTALL THE LIFT SPANS WITH REFERENCES TO RELATED ACTIVITIES THROUGHOUT. FOR DETAILS OF RELATED ACTIVITIES, REFER TO THE SUBSETS NOTED IN PARENTHESES. WORK DEPICTED ON THIS SHEET IS IDENTIFIED WITH AN "X" IN THE TABLE.

	WORK DESCRIPTION
X	INSTALL LIFT SPAN SLIDE SYSTEM ON SW AND SE TRESTLES.
	CLOSE CHANNEL TO NAVIGATION AND MOBILIZE SOUTH LIFT SPAN ASSEMBLY BARGE AT MARINE STAGING YARD.
	FLOAT SOUTH LIFT SPAN BETWEEN THE TRESTLES. TRANSFER LIFT SPAN TO SLIDE SYSTEM. RETURN ASSEMBLY BARGE TO MARINE STAGING YARD.
	FOLLOWING SLIDE-OUT OF EXISTING SWING SPAN (ACTIVITY 13), SLIDE LIFT SPAN INTO POSITION AND SET ONTO THE TRUSS BEARINGS.
	PERFORM MISCELLANEOUS STRUCTURAL, TRACK, AND OTHER RAIL SYSTEMS WORK. RESUME SERVICE ON TRACKS 2 AND 4. REOPEN CHANNEL.
	CLOSE CHANNEL TO MARINE TRAFFIC AND MOBILIZE NORTH LIFT SPAN ASSEMBLY BARGE AT MARINE STAGING YARD.
	RAISE SOUTH LIFT SPAN, FLOAT NORTH LIFT SPAN THROUGH BRIDGE, ROTATE BARGE TO POSITION FOR FLOAT-IN.
	FLOAT NORTH LIFT SPAN BETWEEN THE PIERS AND SET ONTO THE TRUSS BEARINGS.
	COMPLETE REMAINING WORK TO MAKE LIFT SPAN AND RAIL SYSTEMS FULLY OPERATIONAL. RESUME SERVICE ON TRACKS 1 AND 3. REOPEN CHANNEL.

NOTES:

1. THE SOUTH LIFT SPAN WILL BE FULLY ASSEMBLED ON THE LIFT SPAN ASSEMBLY BARGE AT THE MARINE STAGING YARD AND READY FOR TRANSPORT.
2. SEE VESSEL BERTHING PLAN (DWG. GEN-9) FOR TYPICAL BARGE SIZES.
3. BARGES WILL NOT SIMULTANEOUSLY OCCUPY BOTH NAVIGATION CHANNELS.
4. LIFT SPAN SLIDE SYSTEMS WILL BE ERECTED FROM THE TRESTLES AND WILL BE SUPPORTED ON THE TRESTLES AND LIFT SPAN PIERS.

ELEVATION TABLE

DESCRIPTION	CONTOUR	ELEVATION (NAVD88)	ELEVATION (MLLW)
100-YEAR FLOODPLAIN	100 YR	10.0/12.0	13.98/15.98
MAX. ELEVATION OF LAND CAPABLE OF SUPPORTING TIDAL VEGETATION	CJL+1	6.4	10.38
CT COASTAL JURISDICTION LINE	CJL	5.4	9.38
HIGH TIDE LINE	HTL	5.2	9.18
MEAN HIGH WATER LINE	MHW	3.35	7.33
MEAN LOW WATER LINE	MLW	-3.72	0.26
MEAN LOWER LOW WATER LINE	MLLW	-3.98	0

SCALE:
SCALE IN FEET
0 25 50
SCALE 1"=50'

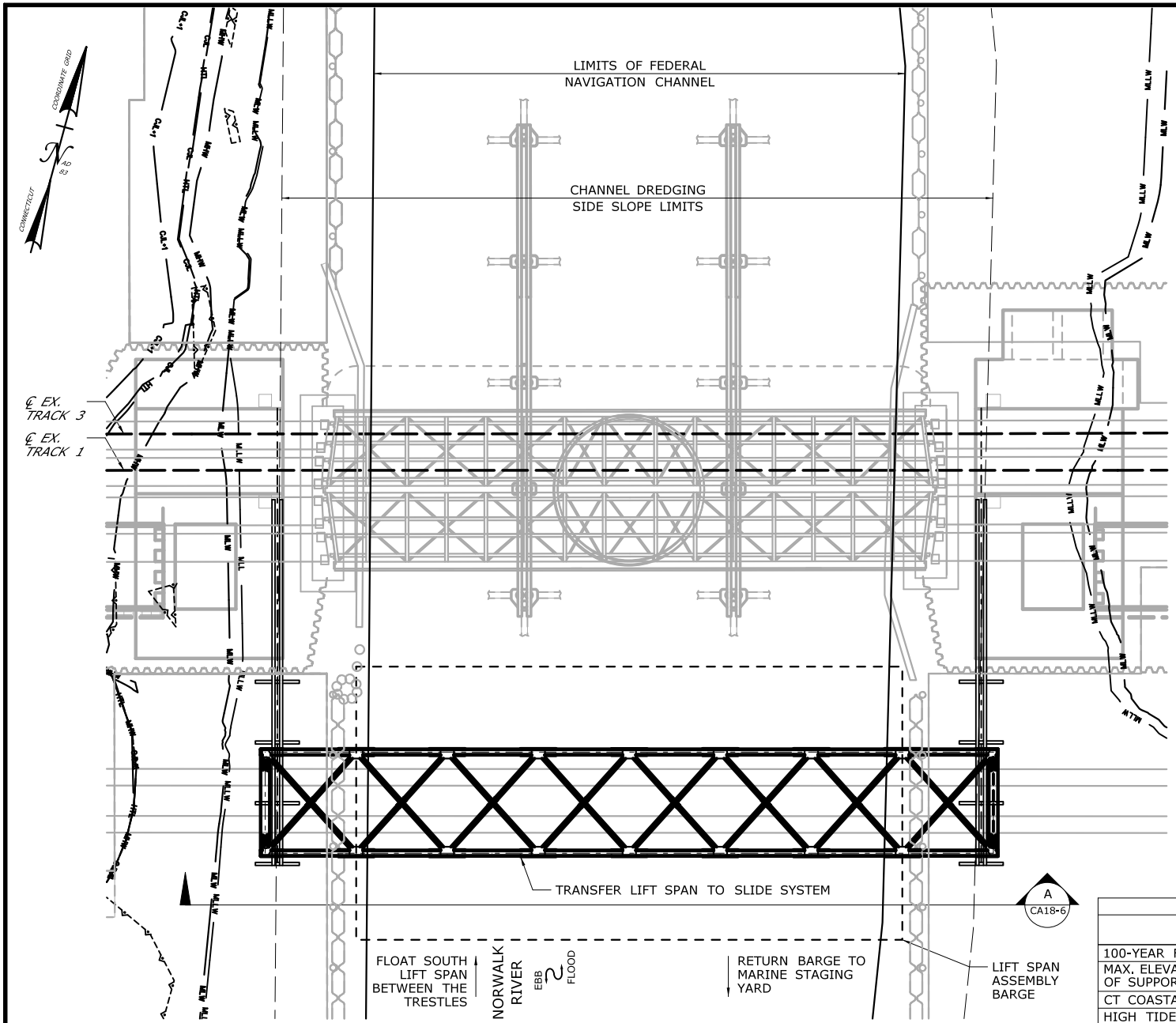
DRAWN: T. ADINOLFI
CHECKED: V. ROBBINS
APPROVED: C. BROWN

SIGNATURE BLOCK:

STATE OF CONNECTICUT
DEPARTMENT OF TRANSPORTATION

PROJECT TITLE:
WALK BRIDGE REPLACEMENT OVER THE NORWALK RIVER BRIDGE NO. 04288R/MP 41.5

TOWN: **NORWALK**
PROJECT NO.: **0301-0176**
DRAWING TITLE: **ACTIVITY 18 LIFT SPAN INSTALLATION (1 OF 6)**
DATE: **REV 7-31-20**
DRAWING NO.: **CA18-1**



PLAN

CONSTRUCTION SEQUENCE

THE SHEETS IN THIS SUBSET DESCRIBE THE SEQUENCE OF ACTIVITIES REQUIRED TO INSTALL THE LIFT SPANS WITH REFERENCES TO RELATED ACTIVITIES THROUGHOUT. FOR DETAILS OF RELATED ACTIVITIES, REFER TO THE SUBSETS NOTED IN PARENTHESES. WORK DEPICTED ON THIS SHEET IS IDENTIFIED WITH AN "X" IN THE TABLE.

	WORK DESCRIPTION
	INSTALL LIFT SPAN SLIDE SYSTEM ON SW AND SE TRESTLES.
X	CLOSE CHANNEL TO NAVIGATION AND MOBILIZE SOUTH LIFT SPAN ASSEMBLY BARGE AT MARINE STAGING YARD.
X	FLOAT SOUTH LIFT SPAN BETWEEN THE TRESTLES. TRANSFER LIFT SPAN TO SLIDE SYSTEM. RETURN ASSEMBLY BARGE TO MARINE STAGING YARD.
	FOLLOWING SLIDE-OUT OF EXISTING SWING SPAN (ACTIVITY 13), SLIDE LIFT SPAN INTO POSITION AND SET ONTO THE TRUSS BEARINGS.
	PERFORM MISCELLANEOUS STRUCTURAL, TRACK, AND OTHER RAIL SYSTEMS WORK. RESUME SERVICE ON TRACKS 2 AND 4. REOPEN CHANNEL.
	CLOSE CHANNEL TO MARINE TRAFFIC AND MOBILIZE NORTH LIFT SPAN ASSEMBLY BARGE AT MARINE STAGING YARD.
	RAISE SOUTH LIFT SPAN, FLOAT NORTH LIFT SPAN THROUGH BRIDGE, ROTATE BARGE TO POSITION FOR FLOAT-IN.
	FLOAT NORTH LIFT SPAN BETWEEN THE PIERS AND SET ONTO THE TRUSS BEARINGS.
	COMPLETE REMAINING WORK TO MAKE LIFT SPAN AND RAIL SYSTEMS FULLY OPERATIONAL. RESUME SERVICE ON TRACKS 1 AND 3. REOPEN CHANEL.

NOTES:

1. SEE VESSEL BERTHING PLAN (DWG. GEN-9) FOR TYPICAL BARGE SIZES.
2. PRIOR TO SLIDING INTO PLACE, THE LIFT SPAN WILL BE OUTFITTED WITH ALL STRUCTURAL, TRACK AND OCS ELEMENTS THAT CAN BE INSTALLED WITHOUT OBSTRUCTING THE INSTALLATION.

ELEVATION TABLE

DESCRIPTION	CONTOUR	ELEVATION (NAVD88)	ELEVATION (MLLW)
100-YEAR FLOODPLAIN	100 YR	10.0/12.0	13.98/15.98
MAX. ELEVATION OF LAND CAPABLE OF SUPPORTING TIDAL VEGETATION	CJL+1	6.4	10.38
CT COASTAL JURISDICTION LINE	CJL	5.4	9.38
HIGH TIDE LINE	HTL	5.2	9.18
MEAN HIGH WATER LINE	MHW	3.35	7.33
MEAN LOW WATER LINE	MLW	-3.72	0.26
MEAN LOWER LOW WATER LINE	MLLW	-3.98	0

SCALE:
SCALE IN FEET
0 25 50
SCALE 1"=50'

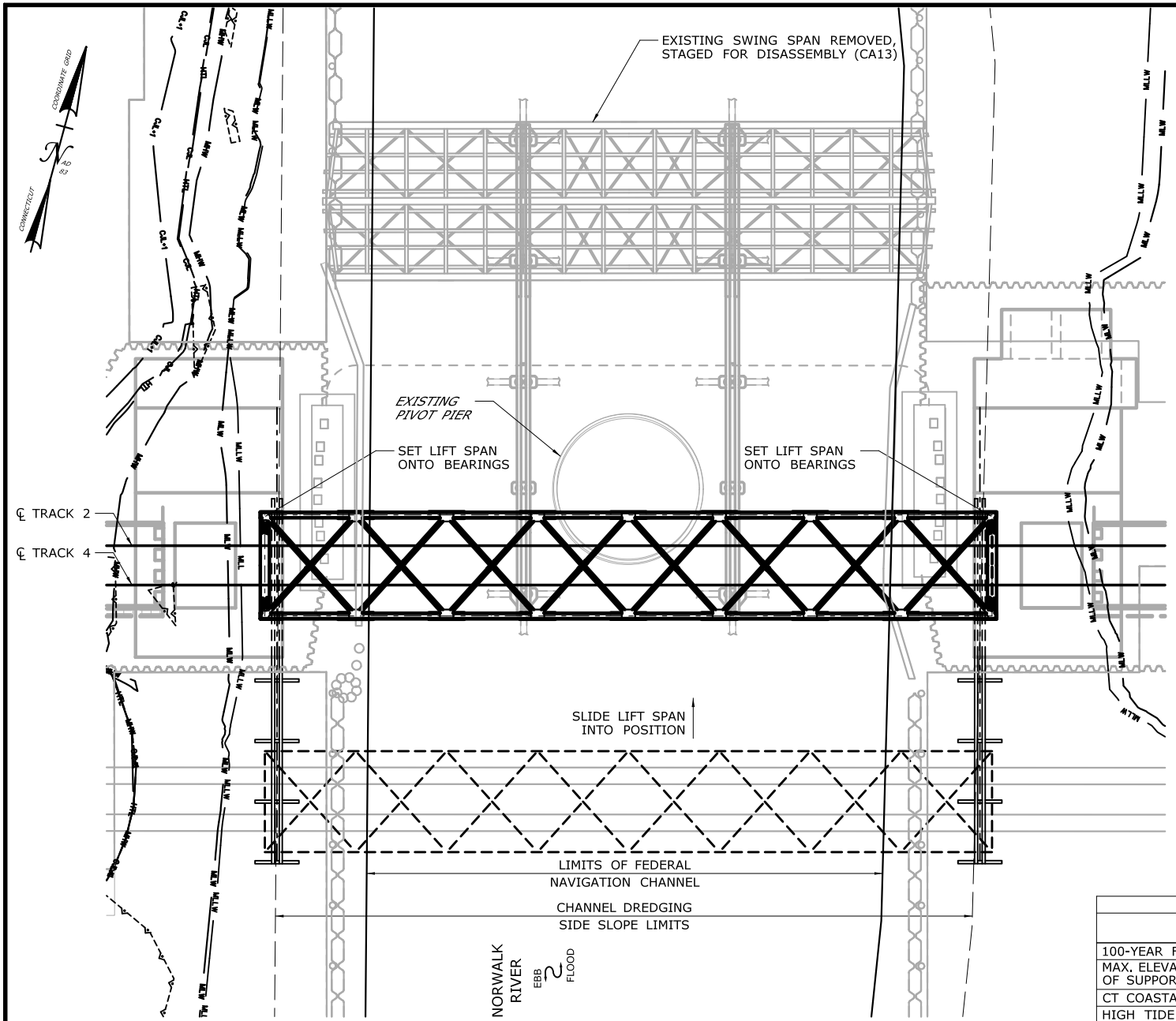
DRAWN: T. ADINOLFI
CHECKED: V. ROBBINS
APPROVED: C. BROWN

SIGNATURE BLOCK:

STATE OF CONNECTICUT
DEPARTMENT OF TRANSPORTATION

PROJECT TITLE:
WALK BRIDGE REPLACEMENT OVER THE NORWALK RIVER BRIDGE NO. 04288R/MP 41.5

TOWN: **NORWALK**
PROJECT NO.: **0301-0176**
DRAWING TITLE: **ACTIVITY 18 LIFT SPAN INSTALLATION (2 OF 6)**
DATE: **REV 7-31-20**
DRAWING NO.: **CA18-2**



PLAN

CONSTRUCTION SEQUENCE

THE SHEETS IN THIS SUBSET DESCRIBE THE SEQUENCE OF ACTIVITIES REQUIRED TO INSTALL THE LIFT SPANS WITH REFERENCES TO RELATED ACTIVITIES THROUGHOUT. FOR DETAILS OF RELATED ACTIVITIES, REFER TO THE SUBSETS NOTED IN PARENTHESES. WORK DEPICTED ON THIS SHEET IS IDENTIFIED WITH AN "X" IN THE TABLE.

	WORK DESCRIPTION
	INSTALL LIFT SPAN SLIDE SYSTEM ON SW AND SE TRESTLES.
	CLOSE CHANNEL TO NAVIGATION AND MOBILIZE SOUTH LIFT SPAN ASSEMBLY BARGE AT MARINE STAGING YARD.
	FLOAT SOUTH LIFT SPAN BETWEEN THE TRESTLES. TRANSFER LIFT SPAN TO SLIDE SYSTEM. RETURN ASSEMBLY BARGE TO MARINE STAGING YARD.
X	FOLLOWING SLIDE-OUT OF EXISTING SWING SPAN (ACTIVITY 13), SLIDE LIFT SPAN INTO POSITION AND SET ONTO THE TRUSS BEARINGS.
X	PERFORM MISCELLANEOUS STRUCTURAL, TRACK, AND OTHER RAIL SYSTEMS WORK. RESUME SERVICE ON TRACKS 2 AND 4. REOPEN CHANNEL.
	CLOSE CHANNEL TO MARINE TRAFFIC AND MOBILIZE NORTH LIFT SPAN ASSEMBLY BARGE AT MARINE STAGING YARD.
	RAISE SOUTH LIFT SPAN, FLOAT NORTH LIFT SPAN THROUGH BRIDGE, ROTATE BARGE TO POSITION FOR FLOAT-IN.
	FLOAT NORTH LIFT SPAN BETWEEN THE PIERS AND SET ONTO THE TRUSS BEARINGS.
	COMPLETE REMAINING WORK TO MAKE LIFT SPAN AND RAIL SYSTEMS FULLY OPERATIONAL. RESUME SERVICE ON TRACKS 1 AND 3. REOPEN CHANNEL.

NOTES:

1. WORK DEPICTED ON THIS SHEET WILL BE PERFORMED DURING A SHORT-DURATION FOUR-TRACK OUTAGE.
2. POST-INSTALLATION STRUCTURAL, TRACK, OCS AND RAIL SYSTEMS WORK REQUIRED TO RESUME TRAIN SERVICE WILL BE PERFORMED WITHIN THE FOUR-TRACK OUTAGE.
3. THE SOUTH LIFT SPAN IS NOT ANTICIPATED TO BE OPERATIONAL AS A MOVABLE SPAN WHEN TRAIN TRAFFIC RESUMES ON TRACKS 2 AND 4.
4. THE CHANNEL WILL REMAIN CLOSED TO NAVIGATION FOLLOWING THIS WORK AS SWING SPAN REMOVAL (ACTIVITY 13) CONTINUES.

ELEVATION TABLE

DESCRIPTION	CONTOUR	ELEVATION (NAVD88)	ELEVATION (MLLW)
100-YEAR FLOODPLAIN	100 YR	10.0/12.0	13.98/15.98
MAX. ELEVATION OF LAND CAPABLE OF SUPPORTING TIDAL VEGETATION	CJL+1	6.4	10.38
CT COASTAL JURISDICTION LINE	CJL	5.4	9.38
HIGH TIDE LINE	HTL	5.2	9.18
MEAN HIGH WATER LINE	MHW	3.35	7.33
MEAN LOW WATER LINE	MLW	-3.72	0.26
MEAN LOWER LOW WATER LINE	MLLW	-3.98	0

SCALE:
SCALE IN FEET
0 25 50
SCALE 1"=50'

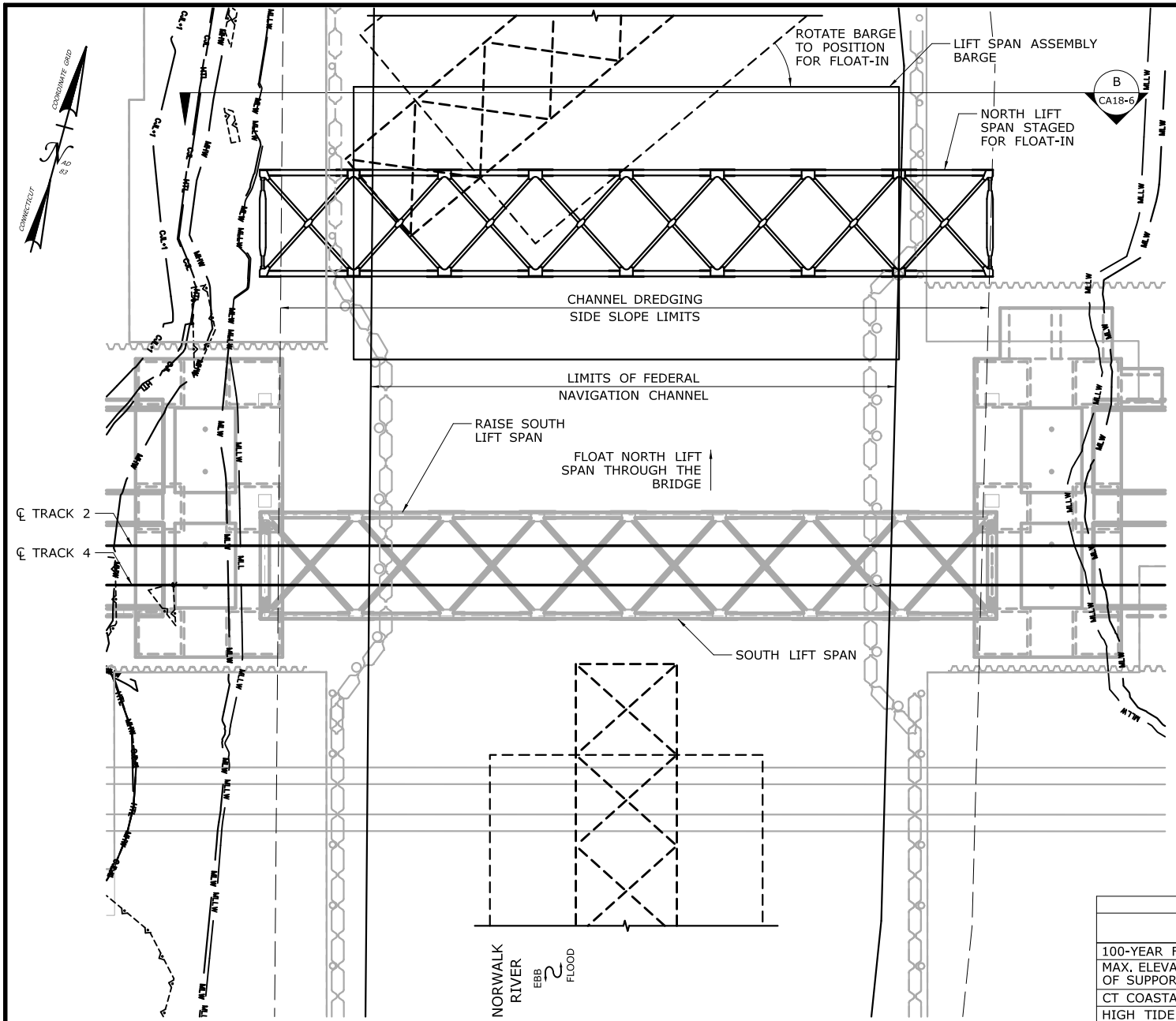
DRAWN: T. ADINOLFI
CHECKED: V. ROBBINS
APPROVED: C. BROWN

SIGNATURE BLOCK:

STATE OF CONNECTICUT
DEPARTMENT OF TRANSPORTATION

PROJECT TITLE:
WALK BRIDGE REPLACEMENT OVER THE NORWALK RIVER BRIDGE NO. 04288R/MP 41.5

TOWN: **NORWALK**
PROJECT NO.: **0301-0176**
DRAWING TITLE: **ACTIVITY 18 LIFT SPAN INSTALLATION (3 OF 6)**
DATE: **REV 7-31-20**
DRAWING NO.: **CA18-3**



PLAN

CONSTRUCTION SEQUENCE

THE SHEETS IN THIS SUBSET DESCRIBE THE SEQUENCE OF ACTIVITIES REQUIRED TO INSTALL THE LIFT SPANS WITH REFERENCES TO RELATED ACTIVITIES THROUGHOUT. FOR DETAILS OF RELATED ACTIVITIES, REFER TO THE SUBSETS NOTED IN PARENTHESES. WORK DEPICTED ON THIS SHEET IS IDENTIFIED WITH AN "X" IN THE TABLE.

	WORK DESCRIPTION
	INSTALL LIFT SPAN SLIDE SYSTEM ON SW AND SE TRESTLES.
	CLOSE CHANNEL TO NAVIGATION AND MOBILIZE SOUTH LIFT SPAN ASSEMBLY BARGE AT MARINE STAGING YARD.
	FLOAT SOUTH LIFT SPAN BETWEEN THE TRESTLES. TRANSFER LIFT SPAN TO SLIDE SYSTEM. RETURN ASSEMBLY BARGE TO MARINE STAGING YARD.
	FOLLOWING SLIDE-OUT OF EXISTING SWING SPAN (ACTIVITY 13), SLIDE LIFT SPAN INTO POSITION AND SET ONTO THE TRUSS BEARINGS.
	PERFORM MISCELLANEOUS STRUCTURAL, TRACK, AND OTHER RAIL SYSTEMS WORK. RESUME SERVICE ON TRACKS 2 AND 4. REOPEN CHANNEL.
X	CLOSE CHANNEL TO MARINE TRAFFIC AND MOBILIZE NORTH LIFT SPAN ASSEMBLY BARGE AT MARINE STAGING YARD.
X	RAISE SOUTH LIFT SPAN, FLOAT NORTH LIFT SPAN THROUGH BRIDGE, ROTATE BARGE TO POSITION FOR FLOAT-IN.
	FLOAT NORTH LIFT SPAN BETWEEN THE PIERS AND SET ONTO THE TRUSS BEARINGS.
	COMPLETE REMAINING WORK TO MAKE LIFT SPAN AND RAIL SYSTEMS FULLY OPERATIONAL. RESUME SERVICE ON TRACKS 1 AND 3. REOPEN CHANNEL.

NOTES:

1. SEE VESSEL BERTHING PLAN (DWG. GEN-9) FOR TYPICAL BARGE SIZES.
2. BARGE WILL BE MOORED TO MOORING PILES AT THE TRESTLES.
3. PRIOR TO FLOATING INTO POSITION, THE LIFT SPAN WILL BE OUTFITTED WITH ALL STRUCTURAL, TRACK AND OCS ELEMENTS THAT CAN BE INSTALLED WITHOUT OBSTRUCTING THE INSTALLATION.
4. BARGE MOVEMENT THROUGH THE BRIDGE WILL BE COORDINATED WITH THE TIDE TO ENSURE ADEQUATE CLEARANCE BENEATH THE SOUTH LIFT SPAN IN THE OPEN POSITION.

ELEVATION TABLE

DESCRIPTION	CONTOUR	ELEVATION (NAVD88)	ELEVATION (MLLW)
100-YEAR FLOODPLAIN	100 YR	10.0/12.0	13.98/15.98
MAX. ELEVATION OF LAND CAPABLE OF SUPPORTING TIDAL VEGETATION	CJL+1	6.4	10.38
CT COASTAL JURISDICTION LINE	CJL	5.4	9.38
HIGH TIDE LINE	HTL	5.2	9.18
MEAN HIGH WATER LINE	MHW	3.35	7.33
MEAN LOW WATER LINE	MLW	-3.72	0.26
MEAN LOWER LOW WATER LINE	MLLW	-3.98	0

SCALE:
SCALE IN FEET
0 25 50
SCALE 1"=50'

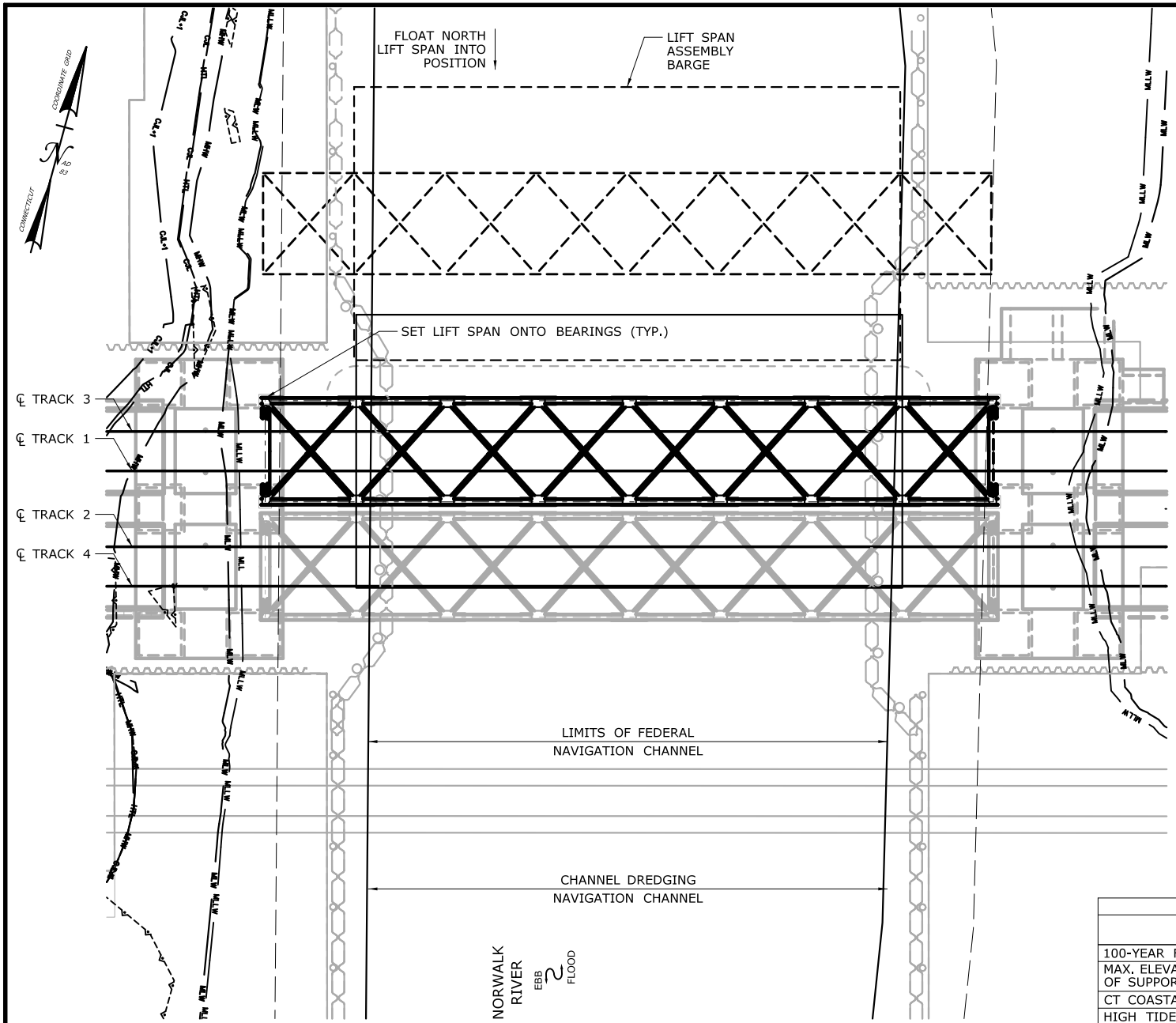
DRAWN: T. ADINOLFI
CHECKED: V. ROBBINS
APPROVED: C. BROWN

SIGNATURE BLOCK:

STATE OF CONNECTICUT
DEPARTMENT OF TRANSPORTATION

PROJECT TITLE:
WALK BRIDGE REPLACEMENT OVER THE NORWALK RIVER BRIDGE NO. 04288R/MP 41.5

TOWN: **NORWALK**
PROJECT NO.: **0301-0176**
DRAWING TITLE: **ACTIVITY 18 LIFT SPAN INSTALLATION (4 OF 6)**
DATE: **REV 7-31-20**
DRAWING NO.: **CA18-4**



PLAN

CONSTRUCTION SEQUENCE

THE SHEETS IN THIS SUBSET DESCRIBE THE SEQUENCE OF ACTIVITIES REQUIRED TO INSTALL THE LIFT SPANS WITH REFERENCES TO RELATED ACTIVITIES THROUGHOUT. FOR DETAILS OF RELATED ACTIVITIES, REFER TO THE SUBSETS NOTED IN PARENTHESES. WORK DEPICTED ON THIS SHEET IS IDENTIFIED WITH AN "X" IN THE TABLE.

	WORK DESCRIPTION
	INSTALL LIFT SPAN SLIDE SYSTEM ON SW AND SE TRESTLES.
	CLOSE CHANNEL TO NAVIGATION AND MOBILIZE SOUTH LIFT SPAN ASSEMBLY BARGE AT MARINE STAGING YARD.
	FLOAT SOUTH LIFT SPAN BETWEEN THE TRESTLES. TRANSFER LIFT SPAN TO SLIDE SYSTEM. RETURN ASSEMBLY BARGE TO MARINE STAGING YARD.
	FOLLOWING SLIDE-OUT OF EXISTING SWING SPAN (ACTIVITY 13), SLIDE LIFT SPAN INTO POSITION AND SET ONTO THE TRUSS BEARINGS.
	PERFORM MISCELLANEOUS STRUCTURAL, TRACK, AND OTHER RAIL SYSTEMS WORK. RESUME SERVICE ON TRACKS 2 AND 4. REOPEN CHANNEL.
	CLOSE CHANNEL TO MARINE TRAFFIC AND MOBILIZE NORTH LIFT SPAN ASSEMBLY BARGE AT MARINE STAGING YARD.
	RAISE SOUTH LIFT SPAN, FLOAT NORTH LIFT SPAN THROUGH BRIDGE, ROTATE BARGE TO POSITION FOR FLOAT-IN.
X	FLOAT NORTH LIFT SPAN BETWEEN THE PIERS AND SET ONTO THE TRUSS BEARINGS.
X	COMPLETE REMAINING WORK TO MAKE LIFT SPAN AND RAIL SYSTEMS FULLY OPERATIONAL. RESUME SERVICE ON TRACKS 1 AND 3. REOPEN CHANNEL.

NOTES:

1. SEE VESSEL BERTHING PLAN (DWG. GEN-9) FOR TYPICAL BARGE SIZES.
2. FLOAT-IN INSTALLATION WILL BE PERFORMED DURING SLACK TIDE.
3. POST-INSTALLATION WORK PRIOR TO RESUMING TRAIN SERVICE ON TRACKS 1 AND 3 WILL INCLUDE ALL STRUCTURAL, MECHANICAL, ELECTRICAL, TRACK, OCS AND RAIL SYSTEMS WORK REQUIRED FOR BOTH SPANS TO BE FULLY OPERATIONAL AS A MOVABLE RAILROAD BRIDGE.
4. THE LIFT SPAN ASSEMBLY BARGE WILL BE REMOVED FROM THE SITE FOLLOWING NORTH LIFT SPAN INSTALLATION.

ELEVATION TABLE

DESCRIPTION	CONTOUR	ELEVATION (NAVD88)	ELEVATION (MLLW)
100-YEAR FLOODPLAIN	100 YR	10.0/12.0	13.98/15.98
MAX. ELEVATION OF LAND CAPABLE OF SUPPORTING TIDAL VEGETATION	CJL+1	6.4	10.38
CT COASTAL JURISDICTION LINE	CJL	5.4	9.38
HIGH TIDE LINE	HTL	5.2	9.18
MEAN HIGH WATER LINE	MHW	3.35	7.33
MEAN LOW WATER LINE	MLW	-3.72	0.26
MEAN LOWER LOW WATER LINE	MLLW	-3.98	0

SCALE: SCALE IN FEET 0 25 50 SCALE 1"=50'

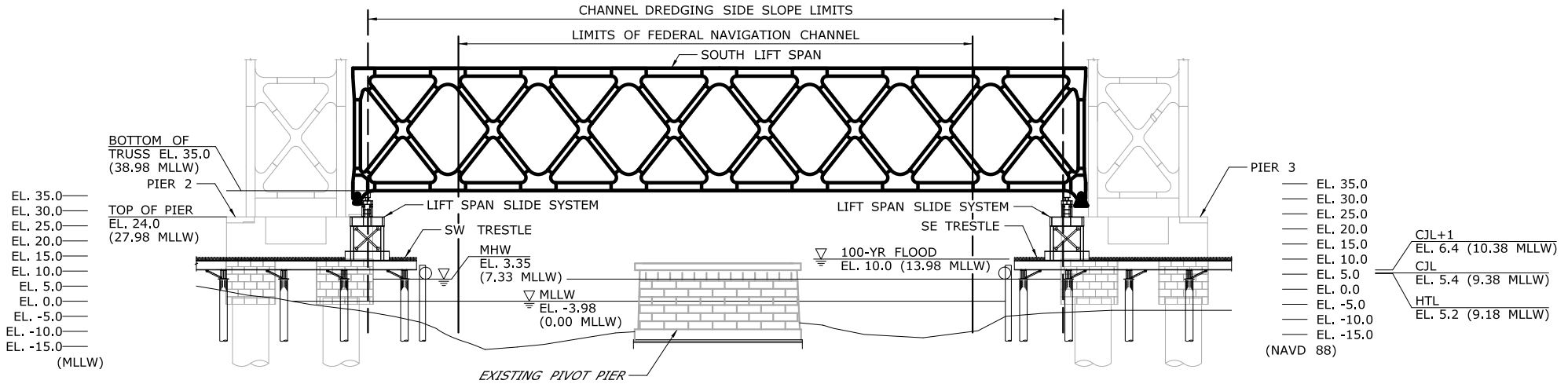
DRAWN: T. ADINOLFI
CHECKED: V. ROBBINS
APPROVED: C. BROWN

SIGNATURE BLOCK:

STATE OF CONNECTICUT
DEPARTMENT OF TRANSPORTATION

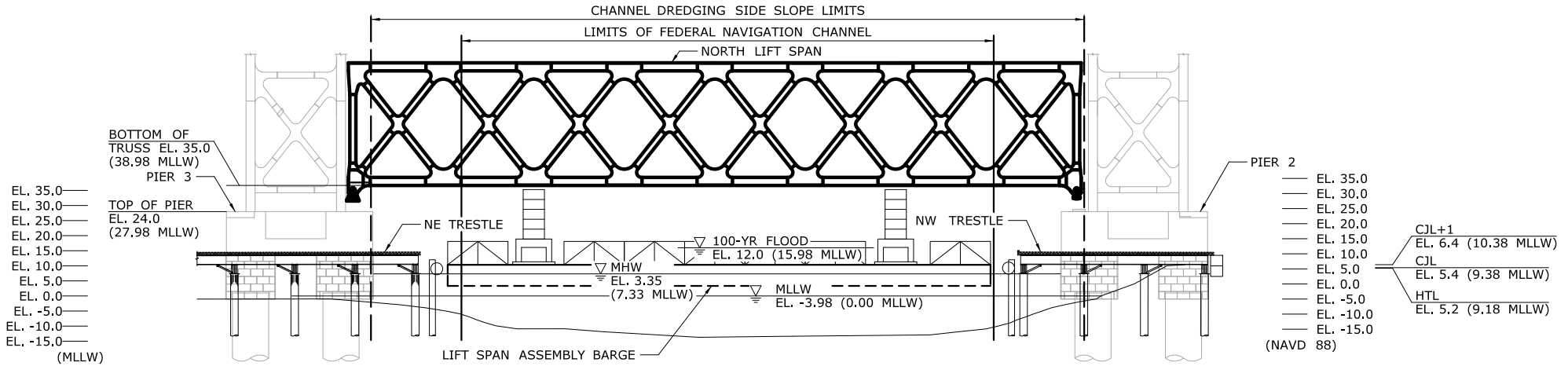
PROJECT TITLE:
WALK BRIDGE REPLACEMENT OVER THE NORWALK RIVER BRIDGE NO. 04288R/MP 41.5

TOWN: **NORWALK**
PROJECT NO.: **0301-0176**
DRAWING TITLE: **ACTIVITY 18 LIFT SPAN INSTALLATION (5 OF 6)**
DATE: **REV 7-31-20**
DRAWING NO.: **CA18-5**



VIEW A CA18-2

(EXISTING SWING SPAN AND SLIDE RAILS NOT SHOWN FOR CLARITY)



VIEW B CA18-4

NOTES:

1. VERTICAL DATUM IS NAVD 88. ELEVATIONS RELATIVE TO MLLW TIDAL DATUM ARE SHOWN IN PARENTHESES.
2. THE 100-YEAR FLOOD ELEVATION VARIES THROUGHOUT THE SITE. WITHIN THE RIVER, IT IS DEFINED AS EL. 12 (15.98 MLLW) AND EL. 10 (13.98 MLLW) DOWNSTREAM AND UPSTREAM OF THE BRIDGE RESPECTIVELY. SEE FLOOD ZONE MAP (DWG. GEN-6) FOR ADDITIONAL INFORMATION.
3. FOR TRESTLE ELEVATIONS, SEE CA5, CA6, CA7, AND CA8.

ELEVATION TABLE			
DESCRIPTION	CONTOUR	ELEVATION (NAVD88)	ELEVATION (MLLW)
100-YEAR FLOODPLAIN	100 YR	10.0/12.0	13.98/15.98
MAX. ELEVATION OF LAND CAPABLE OF SUPPORTING TIDAL VEGETATION	CJL+1	6.4	10.38
CT COASTAL JURISDICTION LINE	CJL	5.4	9.38
HIGH TIDE LINE	HTL	5.2	9.18
MEAN HIGH WATER LINE	MHW	3.35	7.33
MEAN LOW WATER LINE	MLW	-3.72	0.26
MEAN LOWER LOW WATER LINE	MLLW	-3.98	0

SCALE: SCALE IN FEET 0 25 50 SCALE 1"=50'

DRAWN: T. ADINOLFI

CHECKED: V. ROBBINS

APPROVED: C. BROWN

SIGNATURE BLOCK:

STATE OF CONNECTICUT
DEPARTMENT OF TRANSPORTATION

PROJECT TITLE:
WALK BRIDGE REPLACEMENT OVER THE NORWALK RIVER BRIDGE NO. 04288R/MP 41.5

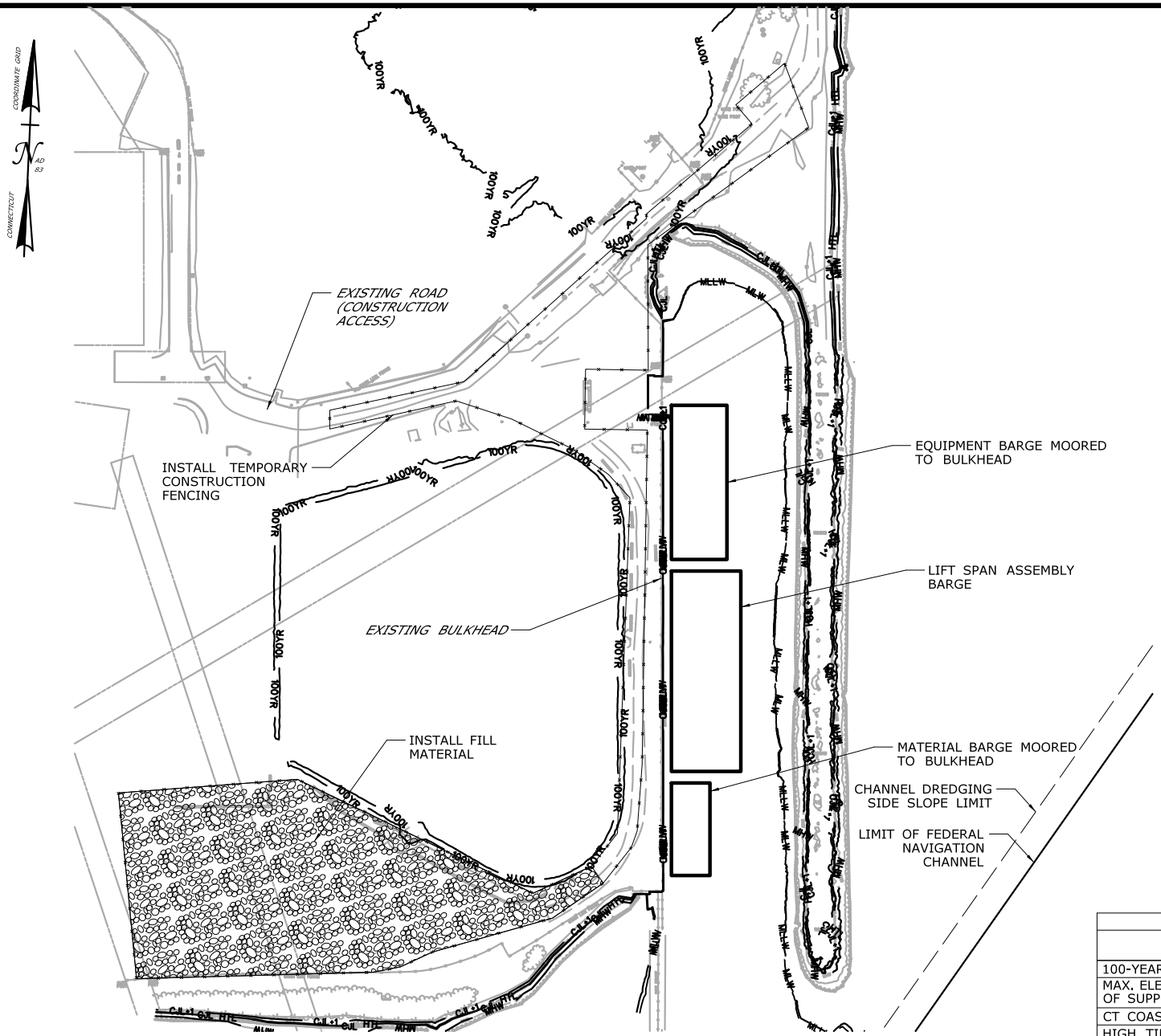
TOWN: **NORWALK**

PROJECT NO.: **0301-0176**

DRAWING TITLE: **ACTIVITY 18 LIFT SPAN INSTALLATION (6 OF 6)**

DATE: **REV 7-31-20**

DRAWING NO.: **CA18-6**



PLAN

CONSTRUCTION SEQUENCE

THE SHEETS IN THIS SUBSET DESCRIBE THE SEQUENCE OF ACTIVITIES REQUIRED TO INSTALL TEMPORARY CONSTRUCTION FENCING AND SOIL MATERIAL WITH REFERENCES TO RELATED ACTIVITIES THROUGHOUT. FOR DETAILS OF RELATED ACTIVITIES, REFER TO THE SUBSETS NOTED IN PARENTHESES. WORK DEPICTED ON THIS SHEET IS IDENTIFIED WITH AN "X" IN THE TABLE.

	WORK DESCRIPTION
X	INSTALL TEMPORARY CONSTRUCTION FENCING AROUND THE SITE.
X	INSTALL FILL MATERIAL IN THE DESIGNATED AREA OF THE SITE.
	REMOVE TEMPORARY CONSTRUCTION FENCING AROUND THE SITE. REMOVE FILL MATERIAL.

NOTES:

1. THIS ACTIVITY IS CONTAINED ENTIRELY WITHIN THE 100-YEAR FLOODPLAN.
2. NO FILL SHALL BE PLACED BELOW THE CJL.
3. VERTICAL DATUM IS NAVD 88. ELEVATIONS RELATIVE TO MLLW TIDAL DATUM ARE SHOWN IN PARENTHESES.
4. SEE VESSEL BERTHING PLAN (DWG. GEN-9) FOR TYPICAL BARGE SIZES.

ELEVATION TABLE			
DESCRIPTION	CONTOUR	ELEVATION (NAVD88)	ELEVATION (MLLW)
100-YEAR FLOODPLAIN	100 YR	VARIES	VARIES
MAX. ELEVATION OF LAND CAPABLE OF SUPPORTING TIDAL VEGETATION	CJL+1	6.4	10.38
CT COASTAL JURISDICTION LINE	CJL	5.4	9.38
HIGH TIDE LINE	HTL	5.2	9.18
MEAN HIGH WATER LINE	MHW	3.35	7.33
MEAN LOW WATER LINE	MLW	-3.72	0.26
MEAN LOWER LOW WATER LINE	MLLW	-3.98	0

SCALE:
SCALE IN FEET
0 100 200
SCALE 1"=200'

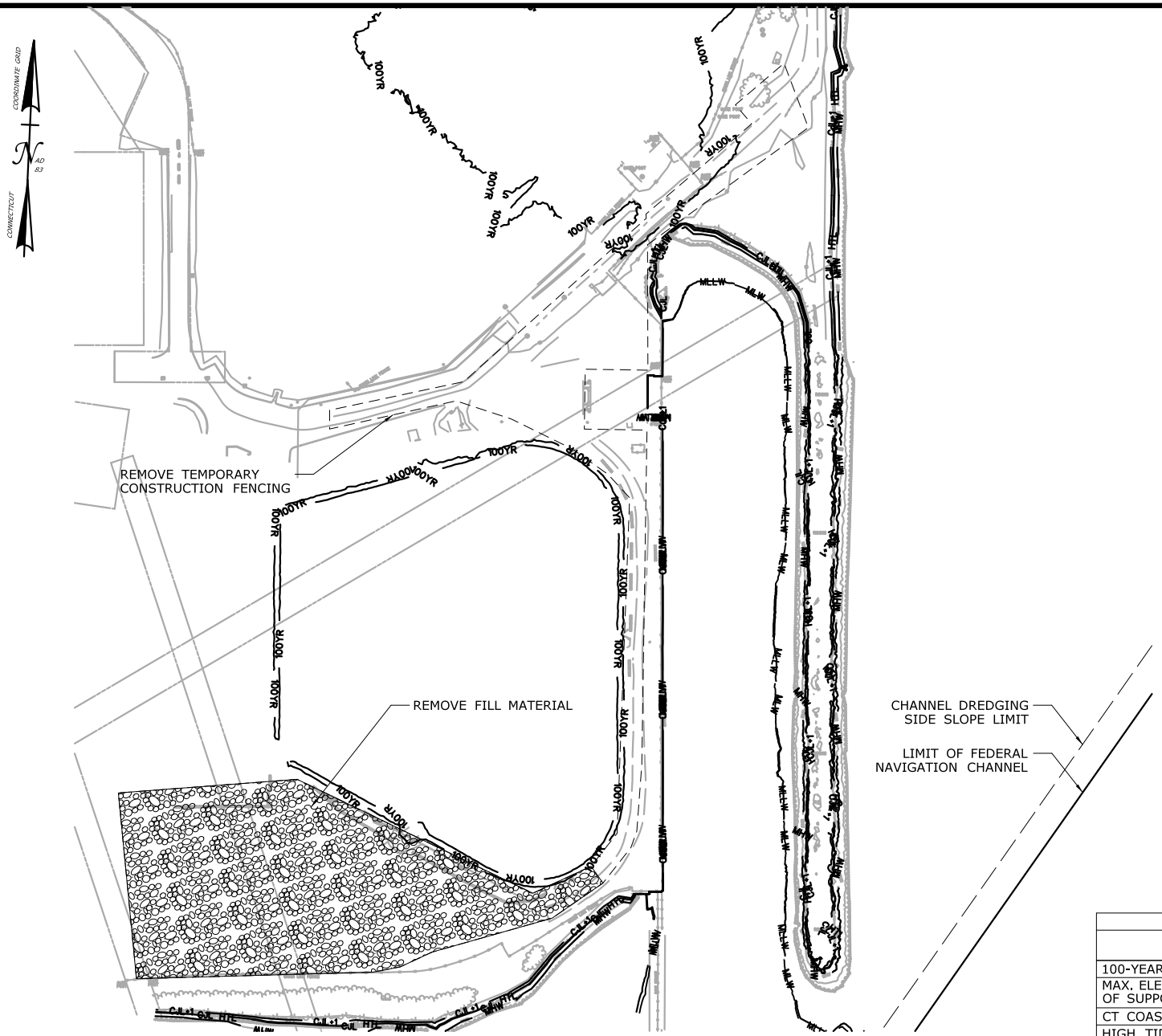
DRAWN: T. ADINOLFI
CHECKED: V. ROBBINS
APPROVED: C. BROWN

SIGNATURE BLOCK:

STATE OF CONNECTICUT
DEPARTMENT OF TRANSPORTATION

PROJECT TITLE:
WALK BRIDGE REPLACEMENT OVER THE NORWALK RIVER BRIDGE NO. 04288R/MP 41.5

TOWN: **NORWALK**
PROJECT NO.: **0301-0176**
DRAWING TITLE: **ACTIVITY 19 MANRESA ISLAND (SHEET 1 OF 3)**
DATE: **REV 7-31-20**
DRAWING NO.: **CA19-1**



PLAN

CONSTRUCTION SEQUENCE

THE SHEETS IN THIS SUBSET DESCRIBE THE SEQUENCE OF ACTIVITIES REQUIRED TO INSTALL TEMPORARY CONSTRUCTION FENCING AND SOIL MATERIAL WITH REFERENCES TO RELATED ACTIVITIES THROUGHOUT. FOR DETAILS OF RELATED ACTIVITIES, REFER TO THE SUBSETS NOTED IN PARENTHESES. WORK DEPICTED ON THIS SHEET IS IDENTIFIED WITH AN "X" IN THE TABLE.

	WORK DESCRIPTION
	INSTALL TEMPORARY CONSTRUCTION FENCING AROUND THE SITE.
	INSTALL FILL MATERIAL IN THE DESIGNATED AREA OF THE SITE.
X	REMOVE TEMPORARY CONSTRUCTION FENCING AROUND THE SITE. REMOVE FILL MATERIAL.

NOTES:

1. THIS ACTIVITY IS CONTAINED ENTIRELY WITHIN THE 100-YEAR FLOODPLAN.
2. VERTICAL DATUM IS NAVD 88. ELEVATIONS RELATIVE TO MLLW TIDAL DATUM ARE SHOWN IN PARENTHESES.

ELEVATION TABLE			
DESCRIPTION	CONTOUR	ELEVATION (NAVD88)	ELEVATION (MLLW)
100-YEAR FLOODPLAIN	100 YR	VARIES	VARIES
MAX. ELEVATION OF LAND CAPABLE OF SUPPORTING TIDAL VEGETATION	CJL+1	6.4	10.38
CT COASTAL JURISDICTION LINE	CJL	5.4	9.38
HIGH TIDE LINE	HTL	5.2	9.18
MEAN HIGH WATER LINE	MHW	3.35	7.33
MEAN LOW WATER LINE	MLW	-3.72	0.26
MEAN LOWER LOW WATER LINE	MLLW	-3.98	0

SCALE:
SCALE IN FEET
0 100 200
SCALE 1"=200'

DRAWN: T. ADINOLFI
CHECKED: V. ROBBINS
APPROVED: C. BROWN

SIGNATURE BLOCK:

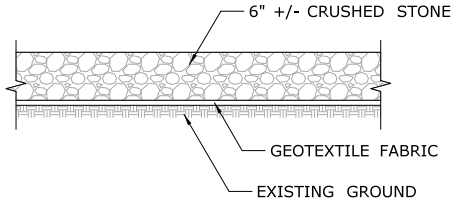
STATE OF CONNECTICUT
DEPARTMENT OF TRANSPORTATION

PROJECT TITLE:
WALK BRIDGE REPLACEMENT OVER THE NORWALK RIVER BRIDGE NO. 04288R/MP 41.5

TOWN: **NORWALK**
PROJECT NO.: **0301-0176**
DRAWING TITLE: **ACTIVITY 19 MANRESA ISLAND (SHEET 2 OF 3)**
DATE: **REV 7-31-20**
DRAWING NO.: **CA19-2**

NOTES:

1. VERTICAL DATUM IS NAVD 88. ELEVATIONS RELATIVE TO MLLW TIDAL DATUM ARE SHOWN IN PARENTHESES.
2. THE 100-YEAR FLOODPLAIN ELEVATION VARIES THROUGHOUT THE SITE. SEE FLOOD ZONE MAP (DWG. GEN-6A FOR ELEVATION VALUES AND LIMITS OF APPLICABILITY.



TYPICAL FILL SECTION

NOT TO SCALE

ELEVATION TABLE			
DESCRIPTION	CONTOUR	ELEVATION (NAVD88)	ELEVATION (MLLW)
100-YEAR FLOODPLAIN	100 YR	VARIES	VARIES
MAX. ELEVATION OF LAND CAPABLE OF SUPPORTING TIDAL VEGETATION	CJL+1	6.4	10.38
CT COASTAL JURISDICTION LINE	CJL	5.4	9.38
HIGH TIDE LINE	HTL	5.2	9.18
MEAN HIGH WATER LINE	MHW	3.35	7.33
MEAN LOW WATER LINE	MLW	-3.72	0.26
MEAN LOWER LOW WATER LINE	MLLW	-3.98	0

SCALE: NOT TO SCALE

DRAWN: T. ADINOLFI

CHECKED: V. ROBBINS

APPROVED: C. BROWN

SIGNATURE BLOCK:

STATE OF CONNECTICUT
DEPARTMENT OF TRANSPORTATION

PROJECT TITLE:
WALK BRIDGE REPLACEMENT OVER THE NORWALK RIVER BRIDGE NO. 04288R/MP 41.5

TOWN: **NORWALK**

PROJECT NO.: **0301-0176**

DRAWING TITLE: **ACTIVITY 19 MANRESA ISLAND (SHEET 3 OF 3)**

DATE: **REV 7-31-20**

DRAWING NO.: **CA19-3**

Enclosure III

Required Statement,
General Conditions,
and
Special Conditions
For Inclusion in the
S408 Authorization Letter & DOA Permit

Section 408 (S408) Permission Request for Connecticut Department of Transportation (CDOT) to Alter the Norwalk Harbor Federal Navigation Project (FNP) in Norwalk, Connecticut.

MFR Enclosure III – Statement & Conditions:
Section 408 (S408) Permission Request for CDOT to Alter the Norwalk Harbor Federal Navigation Project (FNP) in Norwalk, Connecticut.

In accordance with EC 1165-2-220 part 16.e and appendices G & K, the following statement, general conditions, and any additional special conditions are required to be in the S408 authorization.

I. STATEMENT:

In accordance with EC 1165-2-220 part 16.e and appendices G & K and the Summary of Findings prepared for this permission request, Enclosure 3 provides general conditions, and additional special conditions required to be included in the S408 permission letter and DoA permit respectively. These conditions must be adhered to by the Requester to assure the proposed alteration does not impact the usefulness of the project nor is injurious to the public interest. Concurrent with issuing the final Department of Army (DoA) permit for the proposed action, a (S408) letter including Appendix K authorizing the entire action including the new span and support structures, the temporary occupation of the channel during demolition and construction and for the in-water work also covered by S10 and S404 will be issued to the Requester. For consistency, special conditions specifically related to the in-water work will be included in the final DoA permit.

EC 1165-2-220, appendix G, part G-4.d. requires that that Regulatory staff include in the Section 10 permit document being provided to the applicant the following statement:

"….***It has been determined that the activities authorized do not impair the usefulness of the USACE Navigation project and is not injurious to the Public Interest****…*."

II. STANDARD TERMS AND CONDITIONS:

In this instance, concurrent with issuing the final Department of Army (DoA) permit for the proposed action, a (S408) letter including Appendix K authorizing the entire action including the new span and support structures, the temporary occupation of the channel during demolition and construction and for the in-water work also covered by S10 and S404 will be issued to the Requester. For consistency, special conditions specifically related to the in-water work will be included in the final DoA permit. The standard terms and conditions contained in appendix K of the EC are as follows:

LIMITS OF THE AUTHORIZATION

1. This permission only authorizes you, the requester, to undertake the activity described herein under the authority provided in Section 14 of the Rivers and Harbors Act of 1899, as amended (33 USC 408). This permission does not obviate the need to obtain other federal, state, or local authorizations required

by law. This permission does not grant any property rights or exclusive privileges, and you must have appropriate real estate instruments in place prior to construction and/or installation.

2. The time limit for completing the authorized S408 work ends concurrently with the expiration of the Department of the Army Permit # NAE-2015-625 or in accordance with any extensions to Department of Army Permit # NAE-2015-625. If you find that you need more time to complete the authorized activity, submit your request for a time extension to this office for consideration at least one month before the above date is reached.

3. Without prior written approval of the USACE, you must neither transfer nor assign this permission nor sublet the premises or any part thereof, nor grant any interest, privilege or license whatsoever in connection with this permission. Failure to comply with this condition will constitute noncompliance for which the permission may be revoked immediately by USACE.

4. The requester understands and agrees that, if future operations by the United States require the removal, relocation, or other alteration of the work herein authorized, or if, in the opinion of the Secretary of the Army or an authorized representative, said work will cause unreasonable conditions and/or obstruction of USACE project authorized design, the requester will be required upon due notice from the USACE, to remove, relocate, or alter the structural work or obstructions caused thereby, without expense to the United States. No claim can be made against the United States on account of any such removal or alteration.

INDEMNIFICATION AND HOLD HARMLESS

5. The United States will in no case be liable for:

   a. any damage or injury to the structures or work authorized by this permission that may be caused or result from future operations undertaken by the United States, and no claim or right to compensation will accrue from any damage; or

   b. damage claims associated with any future modification, suspension, or revocation of this permission.

6. The United States will not be responsible for damages or injuries which may arise from or be incident to the construction, maintenance, and use of the project requested by you, nor for damages to the property or injuries to your officers, agents, servants, or employees, or others who may be on your premises or project work areas or the federal project(s) rights-of-way. By accepting this permission, you hereby agree to fully defend, indemnify, and hold harmless the

United States and USACE from any and all such claims, subject to any limitations in law.

7. Any damage to the water resources development project or other portions of any federal project(s) resulting from your activities must be repaired at your expense.

REEVALUATION OF PERMISSION

8. The determination that the activity authorized by this permission would not impair the usefulness of the federal project and would not be injurious to the public interest was made in reliance on the information you provided.

9. This office, at its sole discretion, may reevaluate its decision to issue this permission at any time circumstances warrant, which may result in a determination that it is appropriate or necessary to modify or revoke this permission. Circumstances that could require a reevaluation include, but are not limited to, the following:

    a. you fail to comply with the terms and conditions of this permission;

    b. the information provided in support of your application for permission proves to have been inaccurate or incomplete; or

    c. significant new information surfaces which this office did not consider in reaching the original decision that the activity would not impair the usefulness of the water resources development project and would not be injurious to the public interest

CONDUCT OF WORK UNDER THIS PERMISSION

10. You are responsible for implementing any requirements for mitigation, reasonable and prudent alternatives, or other conditions or requirements imposed as a result of environmental compliance.

11. Work/usage allowed under this permission must proceed in a manner that avoids interference with the inspection, operation, and maintenance of the federal project.

12. In the event of any deficiency in the design or construction of the requested activity, you are solely responsible for taking remedial action to correct the deficiency.

13. The right is reserved to the USACE to enter upon the premises at any time and for any purpose necessary or convenient in connection with government purposes, to make inspections, to operate and/or to make any

other use of the lands as may be necessary in connection with government purposes, and you will have no claim for damages on account thereof against the United States or any officer, agent or employee thereof.

14. You must provide copies of pertinent design, construction, and/or usage submittals/documents. USACE may request that survey and photographic documentation of the alteration work and the impacted project area be provided before, during, and after construction and/or installation.

15. You may be required to perform an inspection of the federal project with the USACE, prior to your use of the structure, to document existing conditions.

16. USACE shall not be responsible for the technical sufficiency of the alteration design nor for the construction and/or installation work.

III. SPECIAL CONDITIONS:

NOTE: The following conditions contain specific elevations and other minimum requirements to be met to meet the requirements of this permit. All elevations refer to the plane of Mean Lower Low Water (MLLW)

17. *Submittals and Notifications*
Except where stated otherwise, reports, drawings, correspondence and any other submittals required by this permit shall be marked with the words "Permit No. NAE-2015-625" and submitted via the following:

1. Regulatory Division

a. MAIL: *PATS Branch – Regulatory Division*
Corps of Engineers, New England District
696 Virginia Road, Concord, MA 01742-2751
b. EMAIL: cenae-r@usace.army.mil
c. FAX: (978) 318-8303

and

2. Navigation Section

a. **MAIL**: Navigation Division – Programs and Project Management Division

Corps of Engineers, New England District
696 Virginia Road, Concord, MA 01742-2751

b. EMAIL: jenifer.e.thalhauser@usace.army.mil

Documents which are not marked and addressed in this manner may not reach their intended destination and do not comply with the requirements of this permit. Requirements for immediate notification to the Corps shall be done by telephone to (978) 318-8338.

18. We have sent a copy of this authorization to the National Ocean Service (NOS). You must notify NOS and this office in writing, at least two weeks before you begin work and upon completion of the activity authorized by this permit. Your notification of completion must include a drawing which certifies the location and configuration of the completed activity (a certified permit drawing may be used).

All submittals to the Corps and NOS shall be marked with the words "Permit No. NAE-2015-625."

Send NOS submittals to:

Department of Commerce, NOAA
National Ocean Service Nautical Data Branch; N/CS26;
1315 East-West Highway
Silver Spring, MD 20910
**or email: ocs.ndb@noaa.gov*

Send Corps submittals to:

PATS Branch - Regulatory Division
Corps of Engineers
New England District
696 Virginia Road
Concord, MA 01742-2751
**or email: cenae-r@usace.army.mil*

And

Navigation Section – Programs and Project Management Division
Corps of Engineers, New England District
696 Virginia Road, Concord, MA 01742-2751
**or email: jenifer.e.thalhauser@usace.army.mil*

a. Documents which are not marked and addressed in this manner may not reach their intended destination and do not comply with the requirements of this permit. The Corps may note the location on future survey drawings and NOAA may use the information for charting purposes.
b. The notification of completion shall be done within 60 days of completing an activity that involves an aerial transmission line, submerged cable, or submerged pipeline across a tidal or non-tidal navigable water of the U.S.

(i.e., Section 10 waters). The permittee shall furnish the NOS and this office with certified (professional engineer or land surveyor registered in the state the work is being performed) as-built drawings, to scale, with control points (i.e., latitude/longitude, state plane coordinates), depicting the alignment and minimum clearance of the aerial wires above the MHW/OHW line at the time of survey or depicting the elevations and alignment of the buried cable or pipeline across the tidal or non-tidal navigable waterway. Authorization in writing and as-built documentation is required when: a) a new cable or pipeline (overhead or submerged) is installed; b) an existing pipeline or cable is moved to another location or is completely removed; c) an overhead cable or overhead pipeline clearance above the MHW line is changed; d) there is a change in the type of cables (power, telephone, etc.) at a water crossing; or e) there is a change in elevation of the submerged pipeline or cable.

19. Construction Schedule: A detailed schedule of work shall be provided to the Corps Regulatory and Navigation Project Managers a minimum of 30 days prior to the start of construction (see par 25, m. for addresses). The permittee shall submit a standard USACE work-start notification form a minimum of two weeks prior to the start of actual construction work and then weekly schedule updates shall be prepared by the permittee or their contractor shall be sent to the aforementioned project managers after start of work.

20. The work shall not interfere with USACE personnel or its contractors engaged in hydrographic surveys, maintenance or improvement of the existing FNP. If, in the opinion of the USACE, the permittee's structures or vessels attached to them must be moved to allow for the maintenance or improvement of the existing FNP, the permittee shall move the structures or vessels as directed by the USACE.

21. Work associated with this permit shall not affect the depth or width of the existing Federal Navigation Project (FNP). Any material, machinery or equipment lost, dumped, thrown into, or otherwise entering the waterway shall be removed immediately. The Norwalk Harbormaster shall be informed about the nature of the object and location of the object entering the waterway at (203) 849-8823. If immediate removal is impractical and the object entering the waterway is, or could become, an obstruction or hazard to navigation, the object shall be suitably marked to protect navigation and the U.S. Coast Guard, Waterways Management Section, First Coast Guard District, Sector Long Island Sound, shall be notified immediately at (203) 468-4432.

22. The existing submarine cables that power the existing bridge shall be removed in their entirety. No remnants of these cables are allowed to remain or abandoned in place. If before or during construction it is determined that the submarine cables cannot be removed entirely, then a meeting between the permittee, the construction contractor and the USACE New England District Navigation Section and Regulatory Division must be scheduled by the permittee and held before the contractor may proceed any further with work on this construction element.

23. The project shall remove the existing bridge piers (i.e., piers 2, 3 and the center pivot pier). All foundation elements shall be removed to the bottom of the timber mat, approximately at elevation -16.02 feet below MLLW. The existing fender system piles around Pier 2 and 3 will be fully removed. Existing piles within the navigation channel will be completely removed, unless the removal may compromise the integrity of adjoining structures, where they shall be cut off at a depth of 2 feet below mudline. If before or during construction it is determined that the foundation elements cannot be removed to these elevations, then a meeting between the permittee, the construction contractor and the USACE New England District Navigation Section and Regulatory Division must be scheduled by the permittee and held before the contractor may proceed any further with work on this construction element.

24. Any dredging occurring within the limits of the authorized 10 feet deep channel (incl. 1V:3H side-slopes) shall achieve a minimum dredge elevation of -10 feet below Mean Lower Low Water (MLLW). If before or during construction it is determined that this minimum elevation cannot be realized, the location(s) where the minimum dredge elevation cannot be achieved will be documented and a meeting between the permittee, the construction contractor and the USACE, New England District Navigation Section and Regulatory Division must be scheduled by the permittee and held before the contractor may proceed any further with work on this construction element.

25. The proposed top of pipe elevation for the micro-tunnel is -38.02 below MLLW. To meet the minimum required 13-foot setback from the authorized 10-feet deep channel and minimum bottom cover requirement, the submarine cables (top of cable/conduit) shall be installed such that the minimum top of pipe elevation is no higher than -23.0 feet below MLLW. A minimum of 7 feet of bottom cover over the top of the utility shall be maintained over the entire utility crossing. If before or during construction it is determined that the minimum top of pipe elevation or minimum cover requirement cannot be realized, a meeting between the permittee, the construction contractor and the USACE, New England District Navigation Section and Regulatory Division must be scheduled by the permittee and held before the contractor may proceed any further with work on this construction element.

26. Pre- Construction and Post-Construction Surveys: Electronic sweep surveys shall be conducted to collect pre-construction existing conditions and post-construction conditions of the submarine cables that will be removed as a part of this project. Pre-construction and post-construction sweep surveys shall cover the entire area of river bottom disturbed by the submarine cable work and at least 200 feet upstream and downstream from the upper and lower limits of the bottom disturbance areas; the sweep survey shall also cover the full width of the FNP (both the east and west channels) within the areas of in-river construction disturbance and also include an additional distance of 50.0 feet to the east and west of the FNP limits.

a. To ensure that the proposed method of surveying is acceptable, a detailed description of the method and the equipment to be employed shall be furnished to the Corps (see address below in 3.d) at least 30 days prior to the start of each survey. The multi-beam swath method or multi-transducer sweep method are required. For hydrographic surveying techniques and information, refer to the Corps of Engineers Hydrographic Manual (EM 1110-2-1003), which can be viewed at: http://www.nae.usace.army.mil/Missions/Regulatory/Useful-Documents-Forms-and-Publications/

b. Sweep surveys shall be done only during daylight hours.

c. Survey data shall be submitted to the Corps in a format that will allow verification of survey results.

d. The Corps may assign a government representative to accompany the survey party during performance of the sweep surveys. The permittee shall notify the Corps Survey Section Chief a minimum of ten working days prior to the start of each survey at (978) 318-8783 or "Survey Section Chief, U.S. Army Corps of Engineers, New England District, 696 Virginia Road, Concord, MA 01742-2751."

e. Plans adequately showing the results of the pre-construction and post-construction sweep surveys along with a written description of how they were performed, and copies of all field books and notes shall be submitted to the Corps (see address above in 24.d) for review and acceptance no later than 30 days after completion of the authorized work.

27. Post Construction As-Builts: The permittee shall submit as-built drawing(s) of the installed submarine cables, the newly constructed bridge piers, and the condition of the channel post-removal of all piers and existing cables. As-built drawings submitted to the Corps shall include:

a. At least one plan view showing the utility's horizontal alignment and a profile view showing the utility's vertical alignment for the cable crossing's entire length that is below the mean high water (MHW)
b. The authorized channel limits of the Norwalk Harbor FNP on both the plan and profile views and the theoretical side-slopes on the profile view
c. The elevation(s) of the top of the utility and all associated installation materials (such as anchoring systems) measured below MLLW. Elevations of the top of utility and installation materials as well as finished grade of the bottom of river shall be reported at a frequency of not less than 25' along the length of the utility.
d. Construction details of the proposed utility to include all associated installation materials (such as anchoring systems) shall be included.
e. Material cut sheets of all installed materials (to include cable, conduit, anchoring system, backfill, etc.).
f. A bar (graphic) scale on drawings
g. The date(s) of the survey and drawings.
h. On the plan view drawing: north arrow, horizontal grid, and shoreline features
i. On the profile view drawing: the actual elevation(s) of the top of cables in the datum of MLLW with a note regarding conversion to NAVD 88 vertical datum.
j. The submarine cable's horizontal state plane coordinates and vertical elevations(s) at:
    i. each horizontal and vertical turning point or point of inflection
    ii. the points of curvature and tangency
    iii. each location where the cables intersect the bridge fender system at the Walk Bridge
    iv. each location where the cables intersects the limits of the Norwalk Harbor FNP

Show the cable's horizontal state plane coordinates in U.S. survey feet based on the Lambert Grid System for the State of Connecticut Zone 0600 NAD 83. Show the elevation(s) at the top of cable referenced to NAVD 88 vertical datum and MLLW datum with the correction factor detailing how MLLW was derived using the latest National Tidal Datum Epoch for that area, typically 1983-2001.

k. A stamp by a professional engineer or land surveyor registered in the state the work is being performed.
l. The permittee shall provide the as-builts showing that the utility was installed in compliance with the requirements of this permit <u>prior to</u> allowing the cable to be connected to the system.

m. As-built drawing(s) shall be submitted electronically to the following:
cenae-r@usace.army.mil
jenifer.e.thalhauser@usace.army.mil
christina.m.comeau@usace.army.mil

CONNECTICUT IN-LIEU FEE (ILF)
PROJECT IMPACT WORKSHEET

1. Corps file number: NAE-2015-00625
2. Date permit issued: March 3, 2023
3. Corps project manager: Peter Olmstead
4. Permittee(s): Kevin F. Carifa
5. Project location/address: Walk Bridge, Bridge No. 04288R over the Norwalk River, Norwalk, CT
6. Lat/long of impact: North 41 degrees, 06' 02"/West 73 degrees, 24' 55"
   (choose the midpoint within each service area if the project is linear)
7. 8-digit hydrologic unit code(s): HUC8 01100006 and HUC8 01100007
8. Service area: Southwest Coastal
9. Service area rate/square foot: $9.12
10. Number of credits to be purchased (impacts (SF)/43,560)*(0.75): 0.12
11. Resource(s) impacted:

Resource Type (list all that apply)	**Type of Impact** (by resource type)	**SF of Aquatic Resources or Linear FT of Streams Impacted and Subject to Compensation**	**% of the Standard Amount**	**Credit Cost Per SF or LF**	**Cost**
E2US	Excavation/ Disturbance [a]	400 SF	100%	$9.12	$2,736.00
E2EM1	Excavation/ Disturbance [a]	6,200 SF	100%	$9.12	$42,408.00
E1UB	Excavation [a]	200 SF	100 %	$9.12	$1,368.00
R	N/A [b]				
		Total:		$9.12	$46,512.00

Notes:
a. Per coordination with USACE New England Division, 25 percent credit to be applied due to CTDEEP-required wetland mitigation.
b. Per coordination with USCE New England Division, watercourse impacts to be waived.

Resource Type: Wetlands by NWI type (PFO, PSS, PEM, M1, M2, E2, etc.), vernal pool (VP), VP critical terrestrial habitat (CTH), and/or river, stream, or brook (R).
Type of impact: May include one or more of the following: fill, conversion (e.g., forested to shrub/scrub), excavation with associated discharge, etc.

Should you have any questions regarding this project please contact Peter Olmstead, of my staff, at (978) 318-8211 or by email at peter.d.olmstead@usace.army.mil.

Sincerely,

Tammy R. Turley

Tammy R. Turley
Chief, Regulatory Division

Enclosures

cc:
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