WALK BRIDGE REPLACEMENT INDEX OF PERMIT PLATES

DRAWING		DRAWING		DRAWING		DRAWING	
NUMBER	DRAWING TITLE	NUMBER	DRAWING TITLE	NUMBER	DRAWING TITLE	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)						

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PROJECT TITL

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

NORWALK

DRAWING TITLE:

0301-0176

INDEX OF PERMIT PLATES (SHEET 1 OF 2) REV 02-17-21 DRAWING NO.:

GEN-1

WALK BRIDGE REPLACEMENT INDEX OF 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 6)	CA16-2	WETLAND MITIGATION (MIT-002)	CA19-2	MANRESA ISLAND (SHEET 2 OF 3)		
CA11-2	BARGE MOORING (SHEET 2 OF 6)	CA16-3	WETLAND MITIGATION (MIT-003)	CA19-3	MANRESA ISLAND (SHEET 3 OF 3)		
CA11-3	BARGE MOORING (SHEET 3 OF 6)	CA16-4	WETLAND MITIGATION (MIT-004)				
CA11-4	BARGE MOORING (SHEET 4 OF 6)	CA16-5	WETLAND MITIGATION (MIT-005)				
CA11-5	BARGE MOORING (SHEET 5 OF 6)	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)				

T. ADINOLFI CHECKED: V. ROBBINS APPROVED:

C. BROWN



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

TOWN:	
	NORWALK

0301-0176

REV 02-17-21 DRAWING NO.:

INDEX OF PERMIT PLATES (SHEET 2 OF 2)

GENERAL NOTES:

- 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.
- ALL PILE DRIVING AND EXTRACTION (INCLUDING SHEETPILES) ACTIVITY WILL BE ENCLOSED WITHIN TURBIDITY CURTAINS.
- 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.
- 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.
- 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
- ALL BARGE MOVEMENTS WILL TAKE PLACE SUCH THAT THERE WILL BE NO IMPACT TO THE RIVER BOTTOM OR INCREASE TURBIDITY.
- HORIZONTAL DATUM IS CT STATE PLANE COORDINATE SYSTEM BASED ON NAD83.
- VERTICAL DATUM IS NAVD88 8.
- AUTHORIZED DREDGE ELEVATION FOR THE FEDERAL NAVIGATION CHANNEL IS EL. -13.98 (NAVD88), 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).
- 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 NECESSARILY 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 THINING 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	
6	SOUTHWEST TRESTLE	INSTALLATION AND REMOVAL OF WORK PLATFORMS IN EACH QUADRANT TO BE USED
7	NORTHEAST TRESTLE	FOR PRIMARY ACCESS TO THE BRIDGE THROUGHOUT CONSTRUCTION
8	SOUTHEAST TRESTLE	THROUGHOUT CONSTRUCTION
9	PIER 2 CONSTRUCTION	MEANS AND METHODS FOR CONSTRUCTION OF
10	PIER 3 CONSTRUCTION	THE LIFT SPAN TOWER FOUNDATIONS
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.

CALE: H. UPSHAW CHECKED:

T. ADINOLFI APPROVED C. BROWN





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

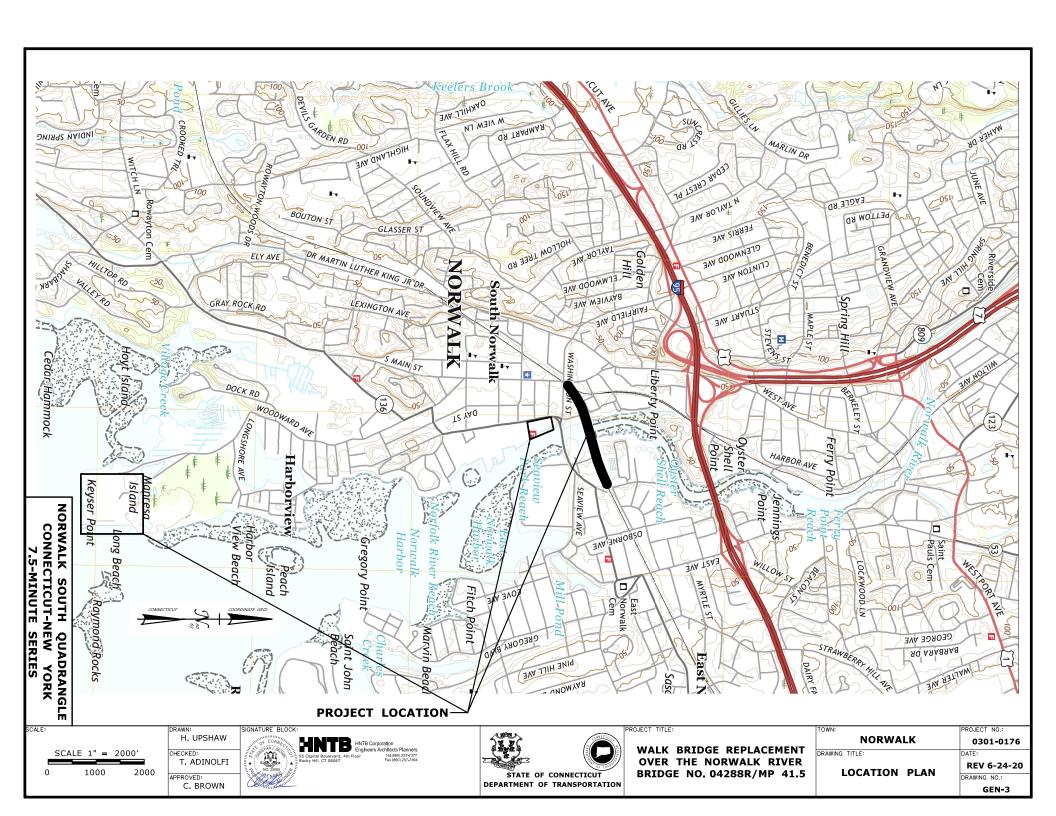
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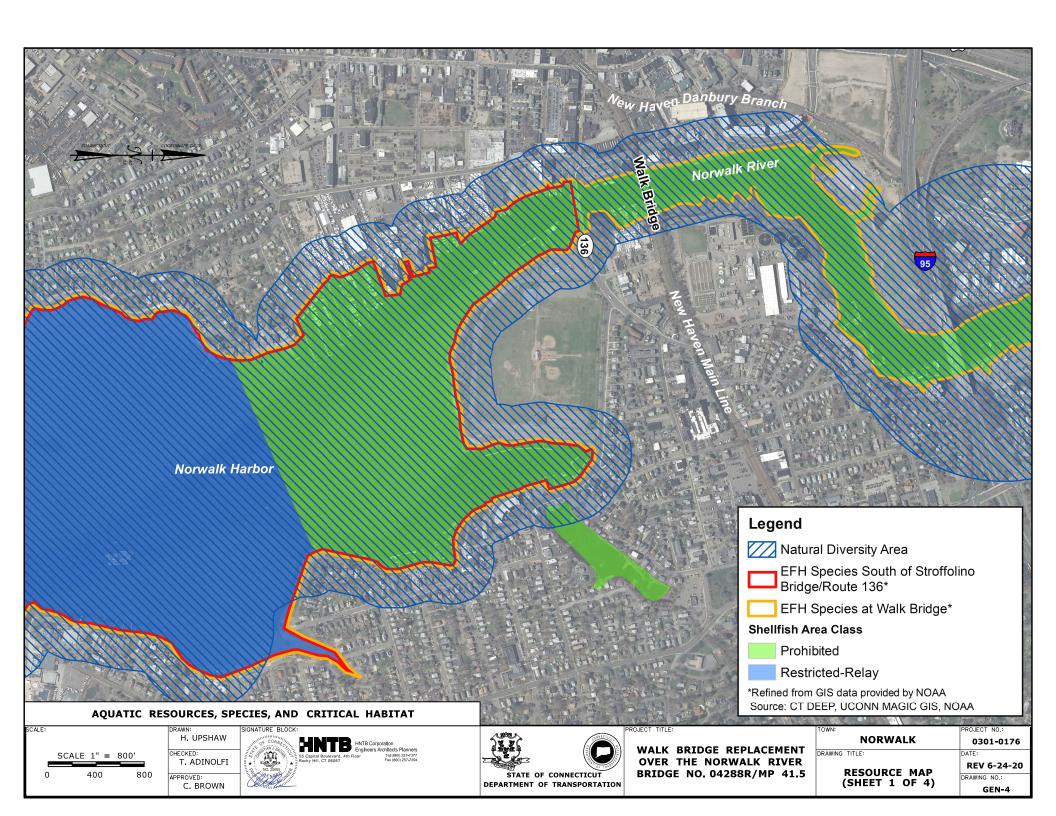
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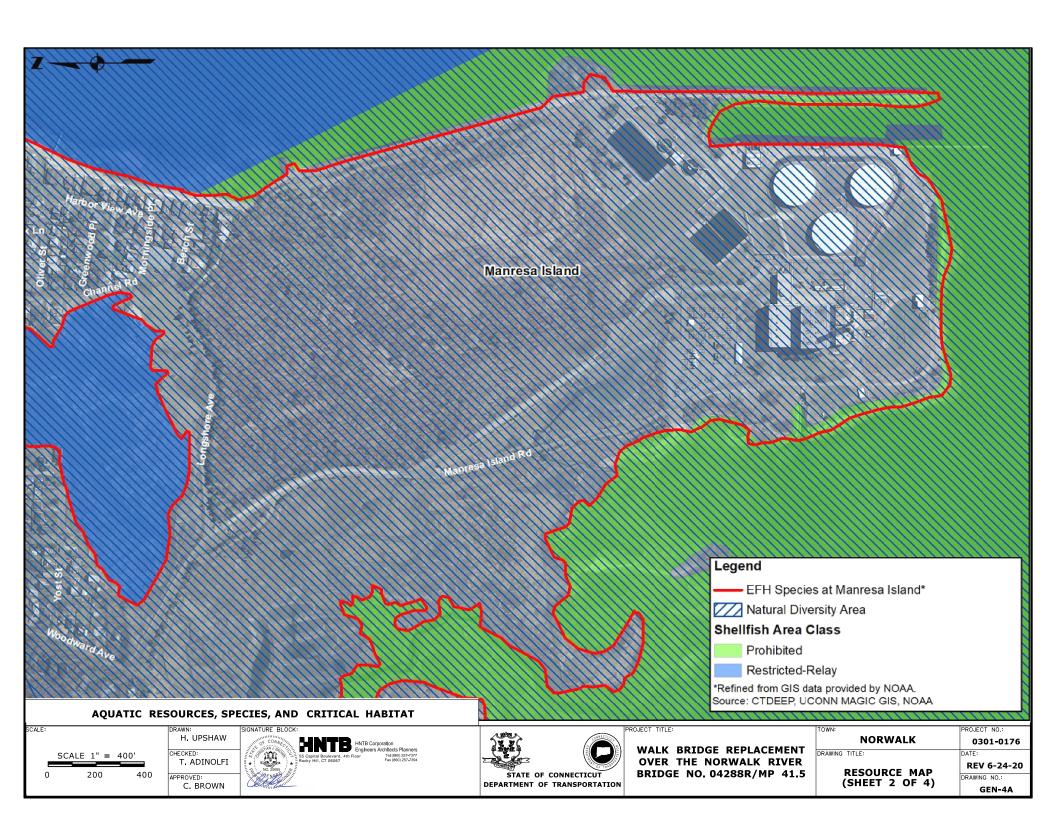
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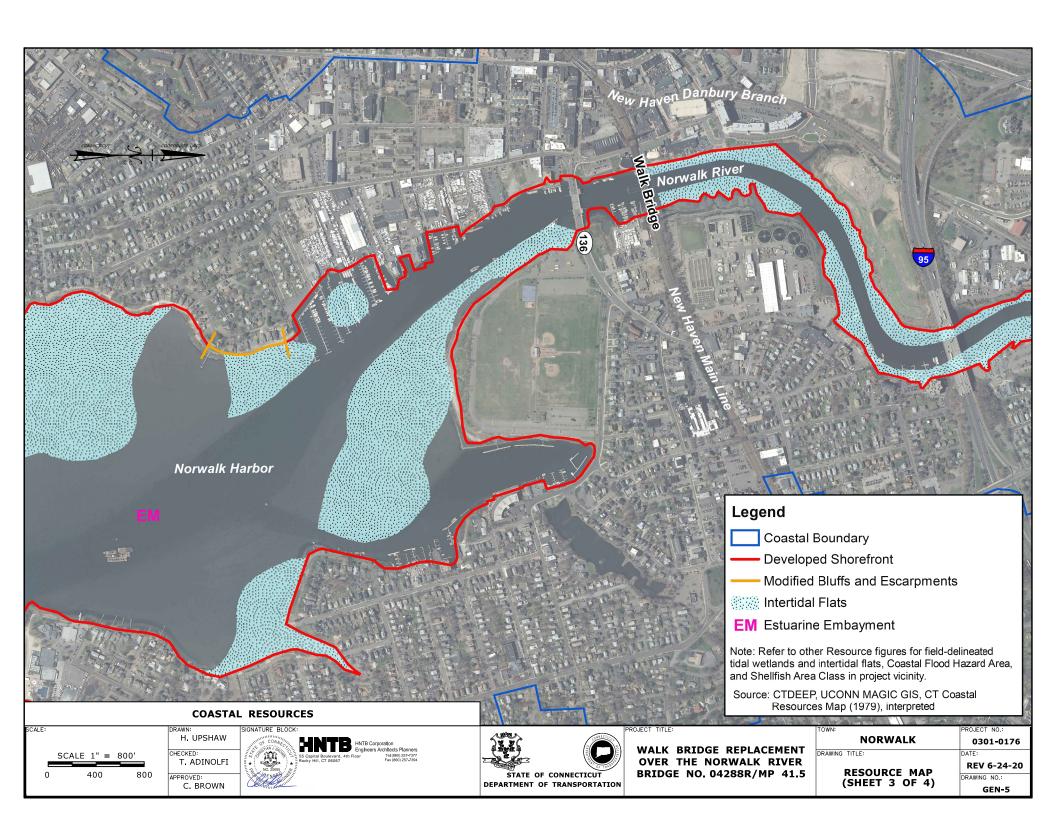
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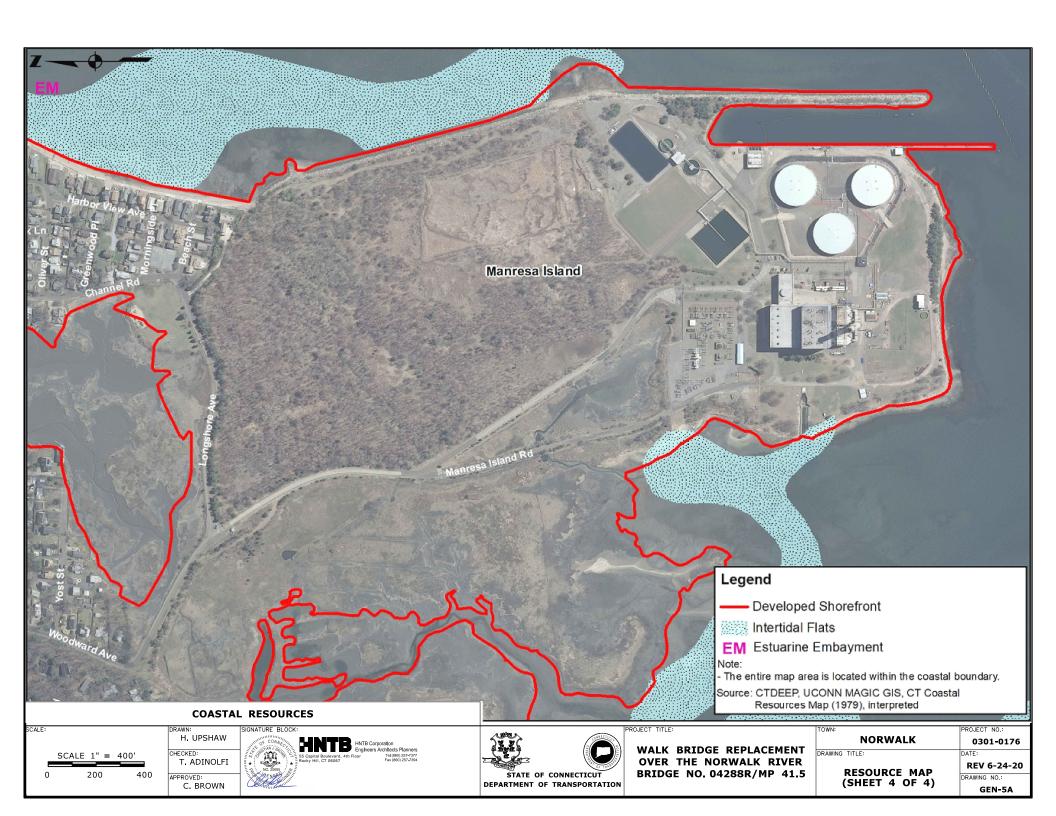
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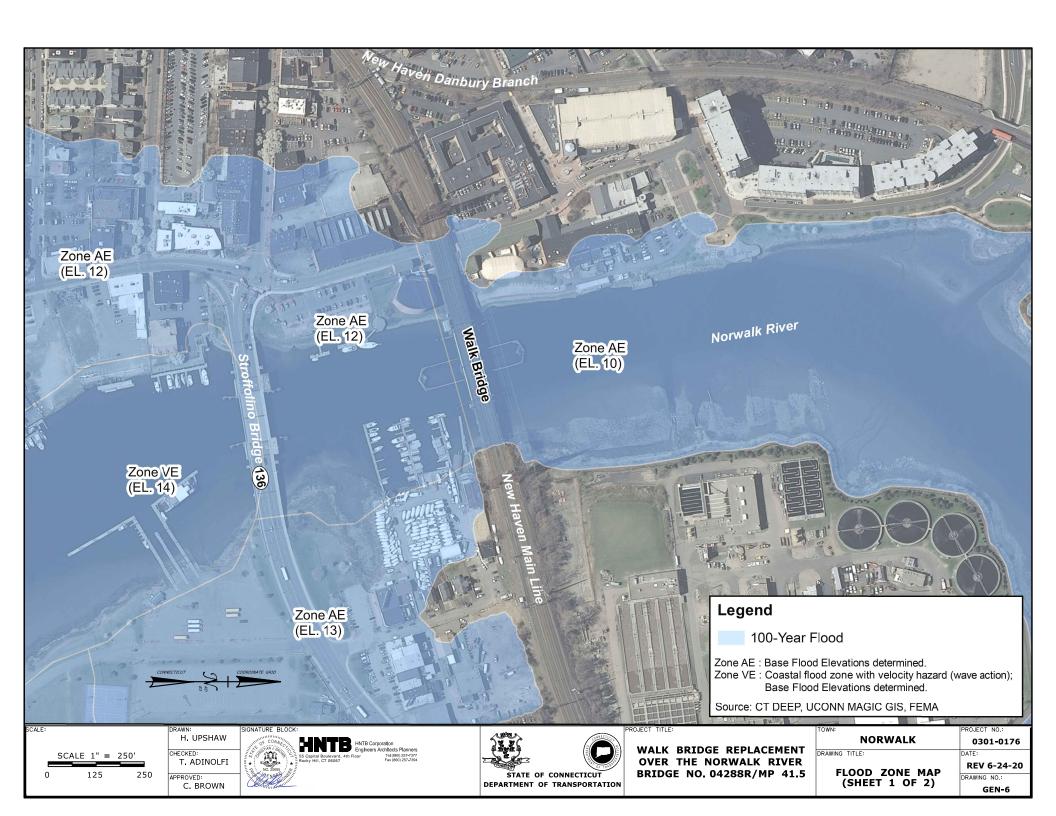


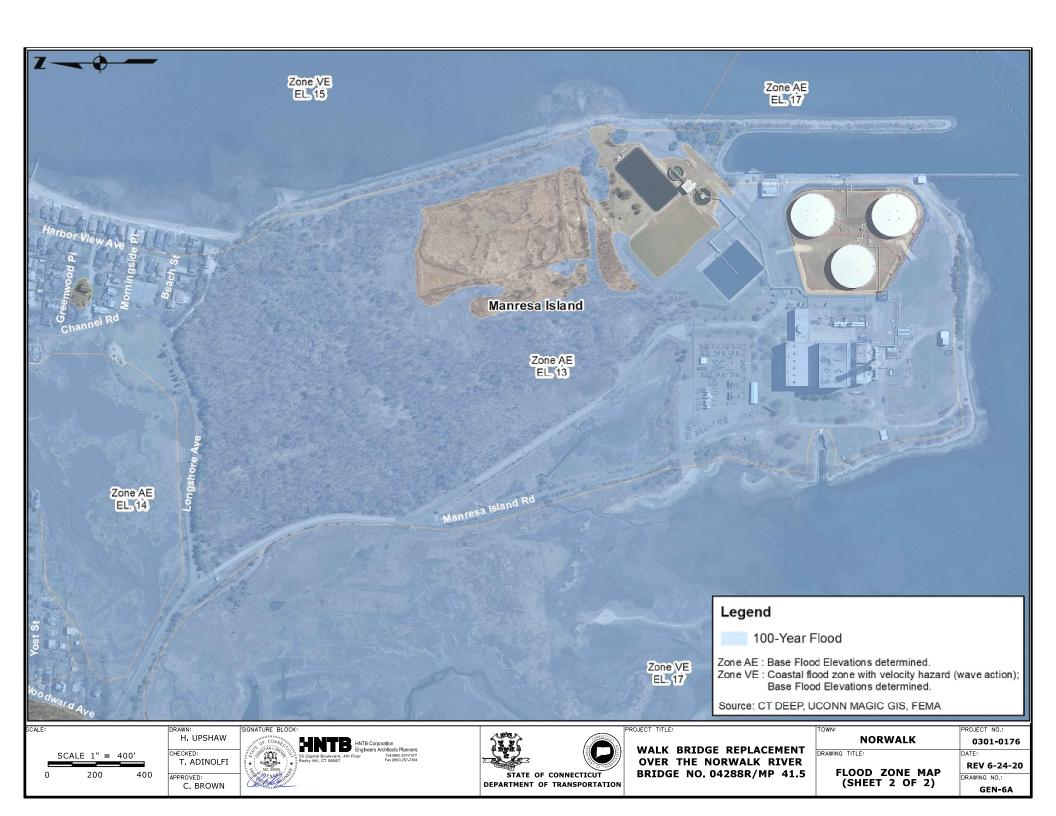


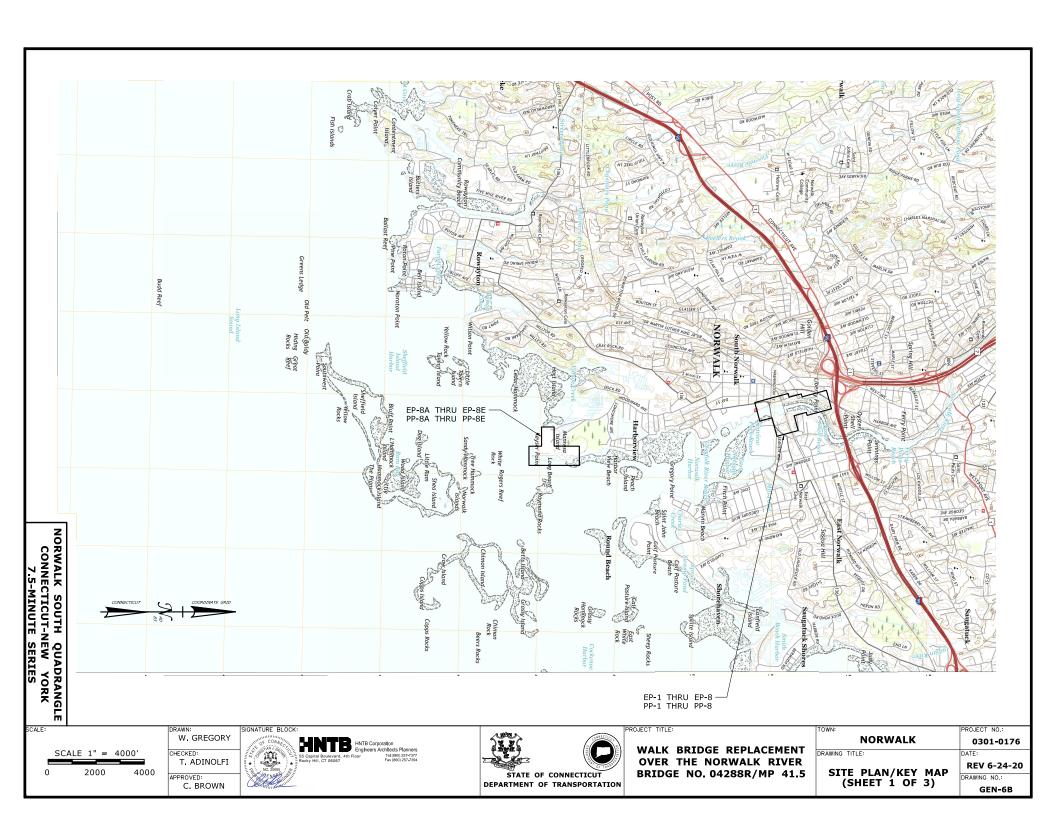


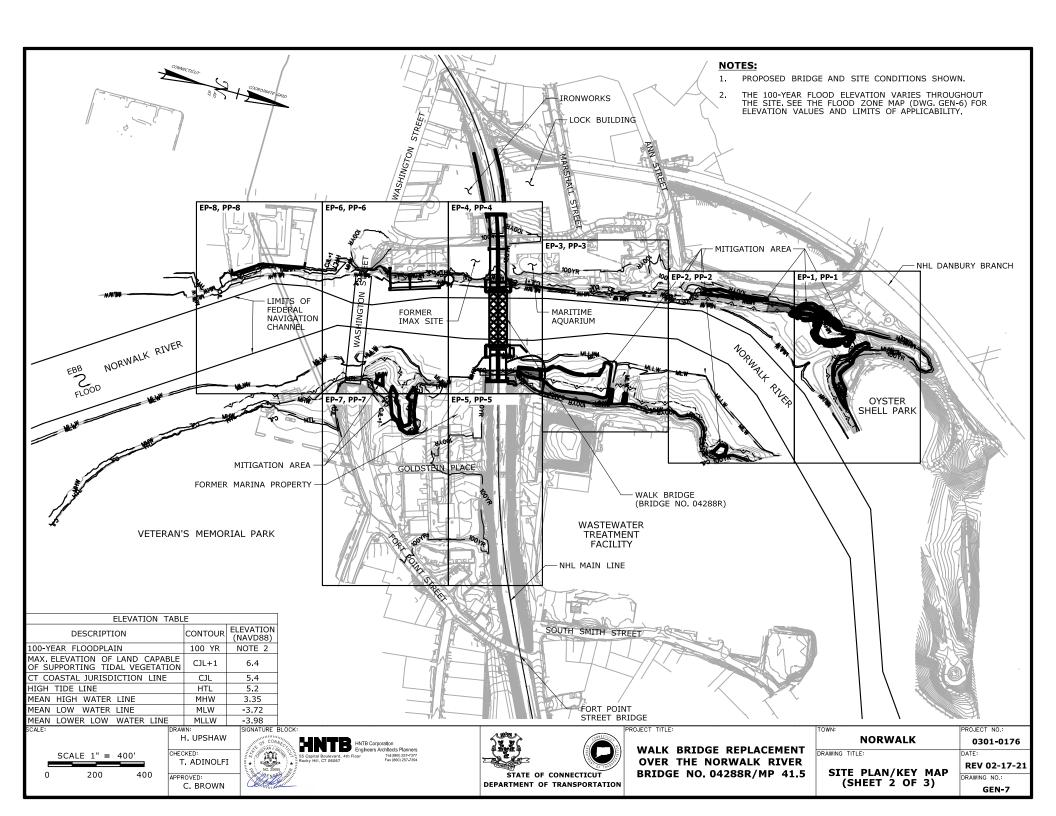


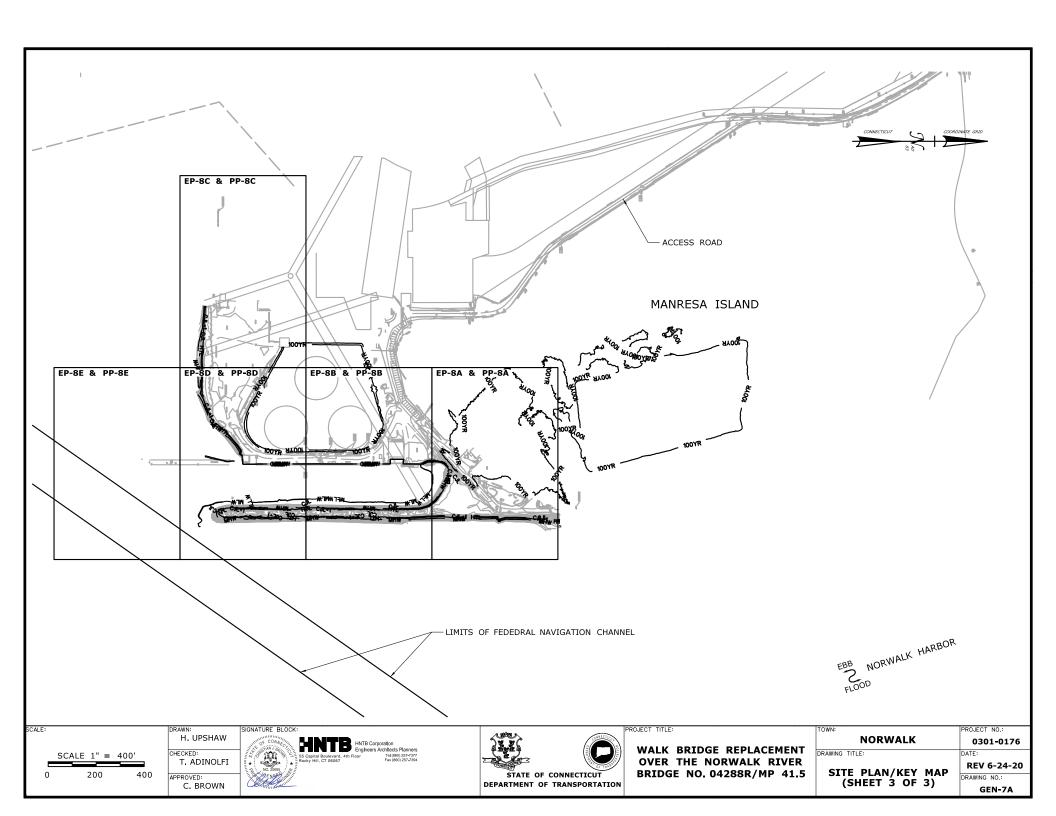


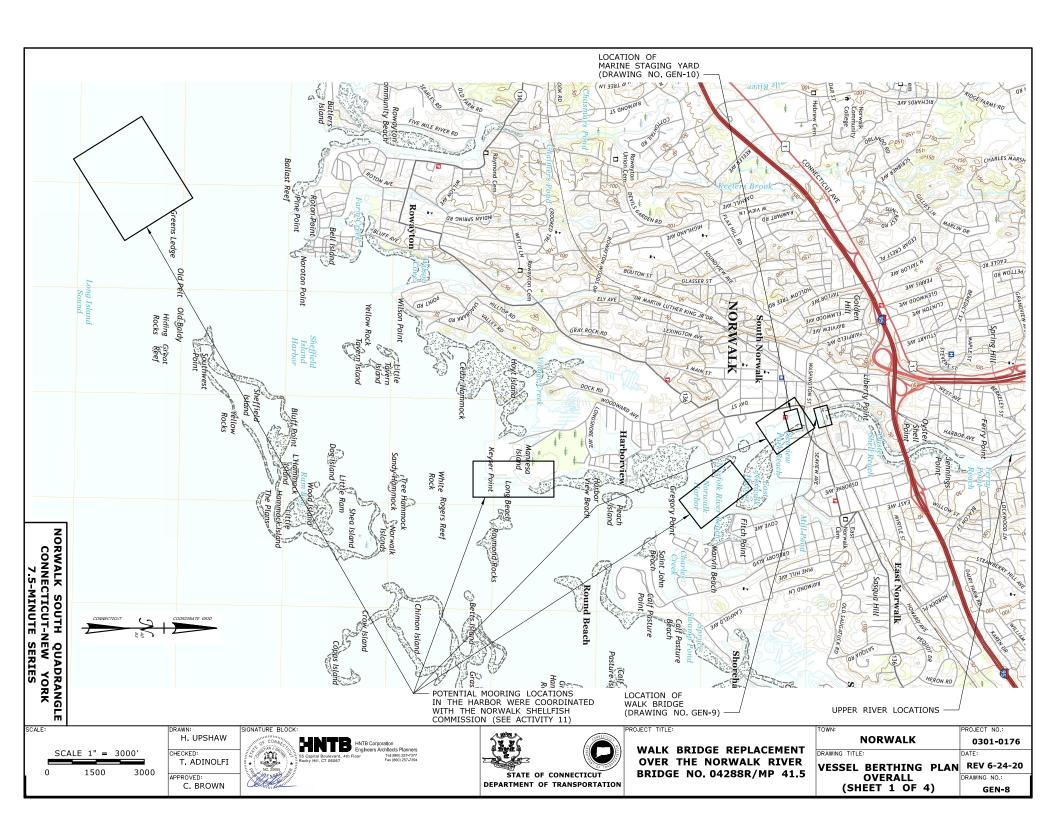


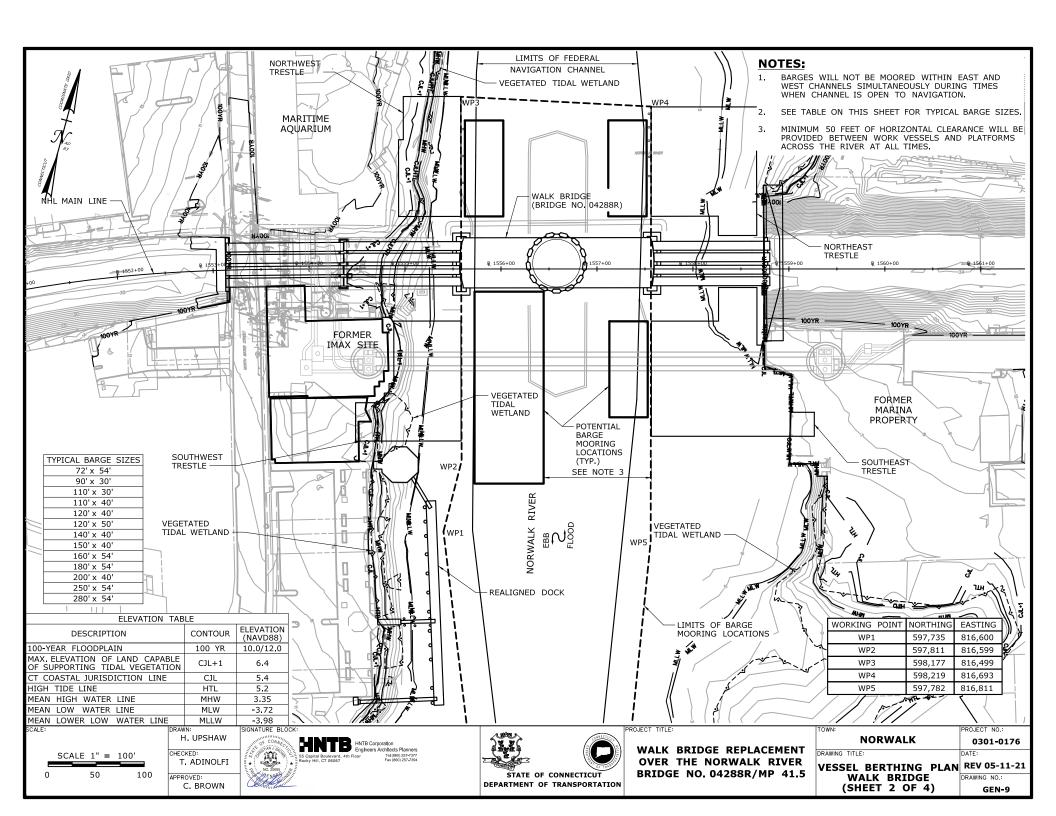


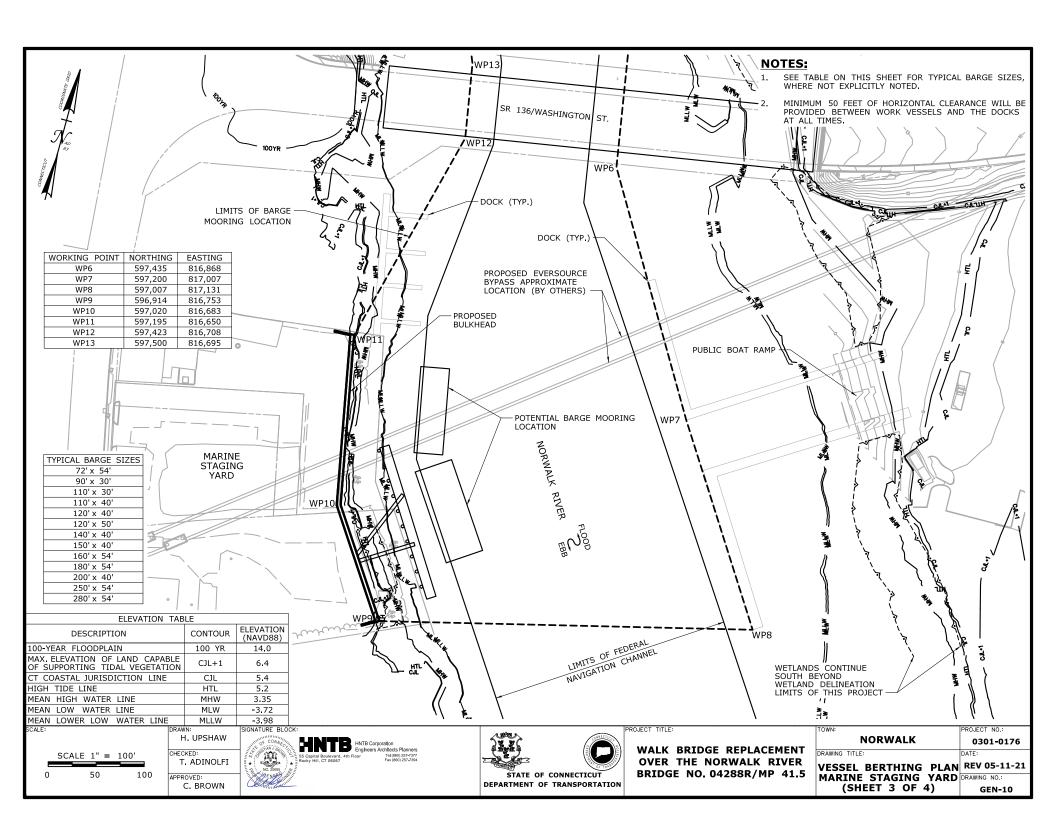


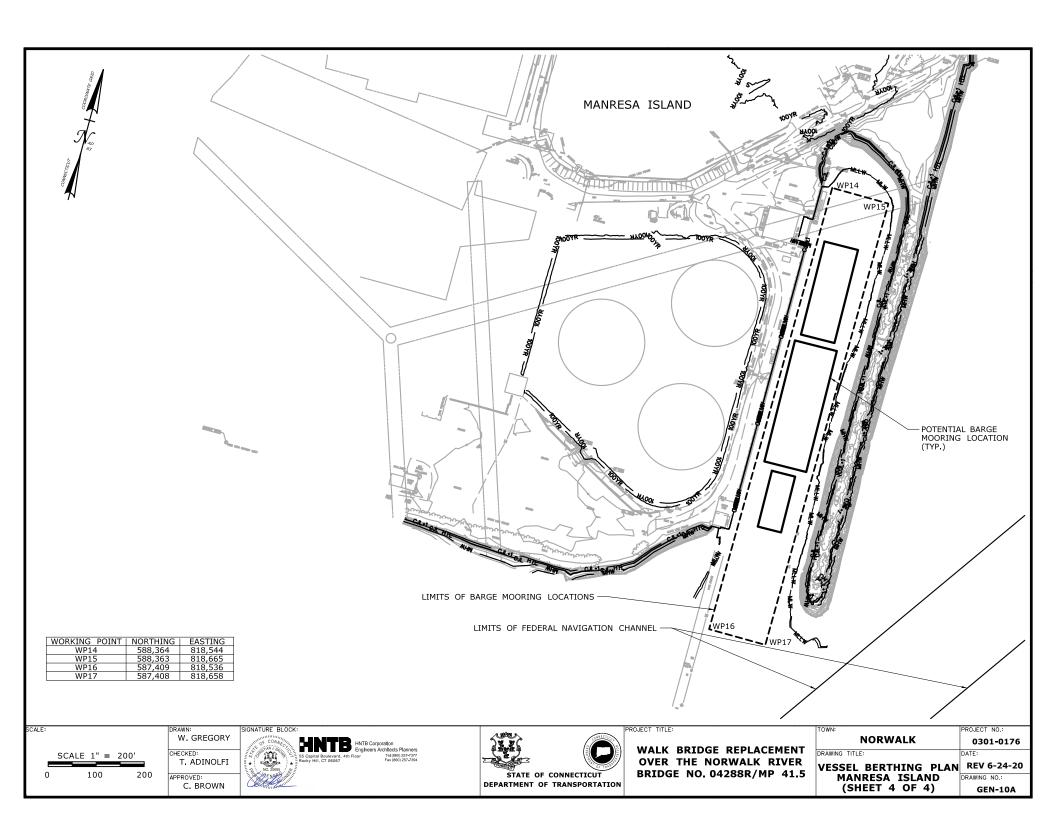


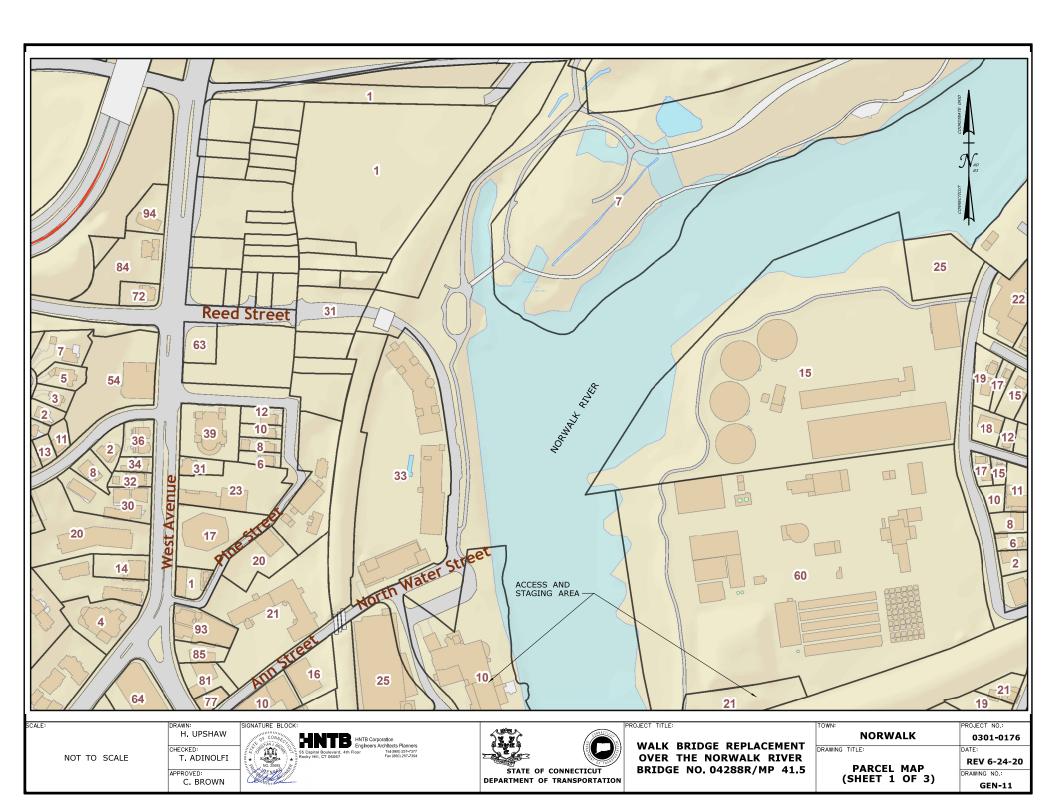


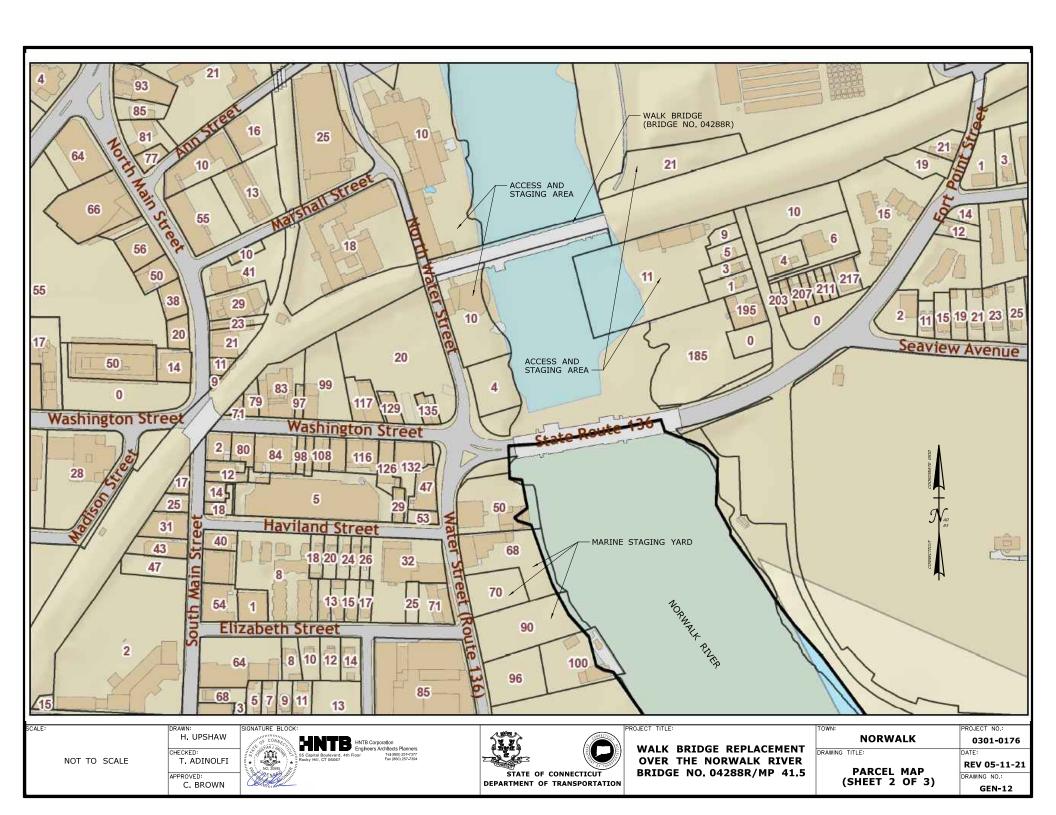


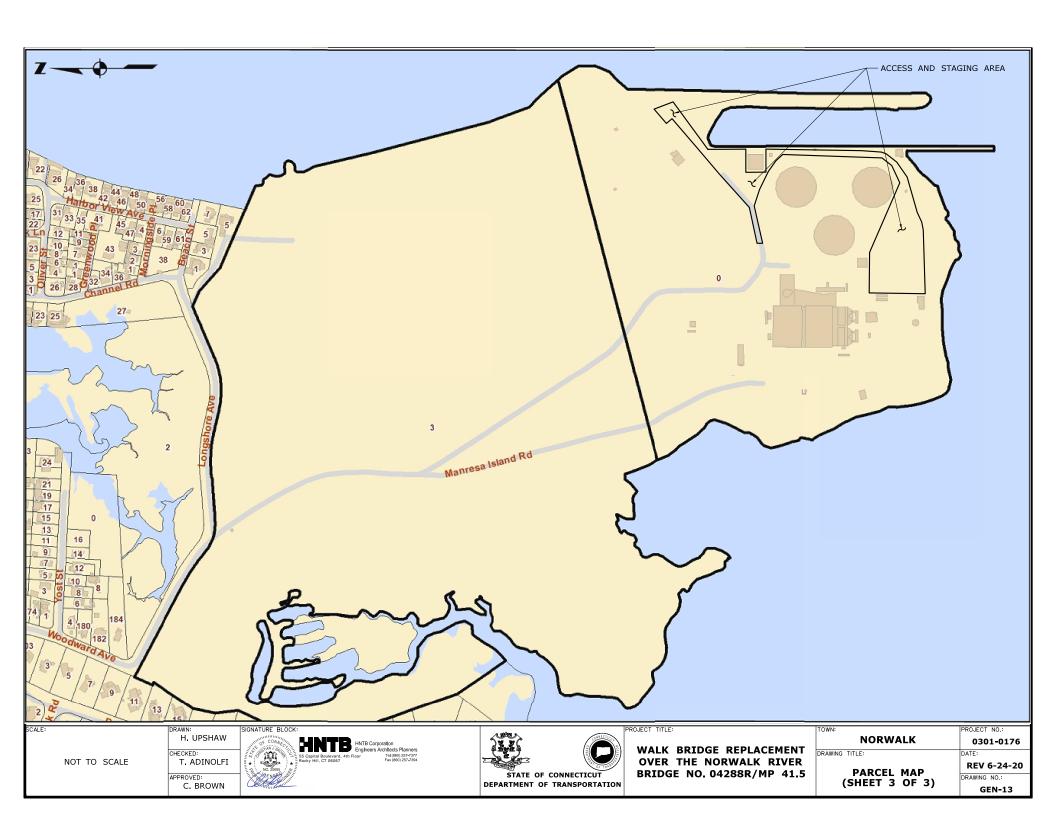


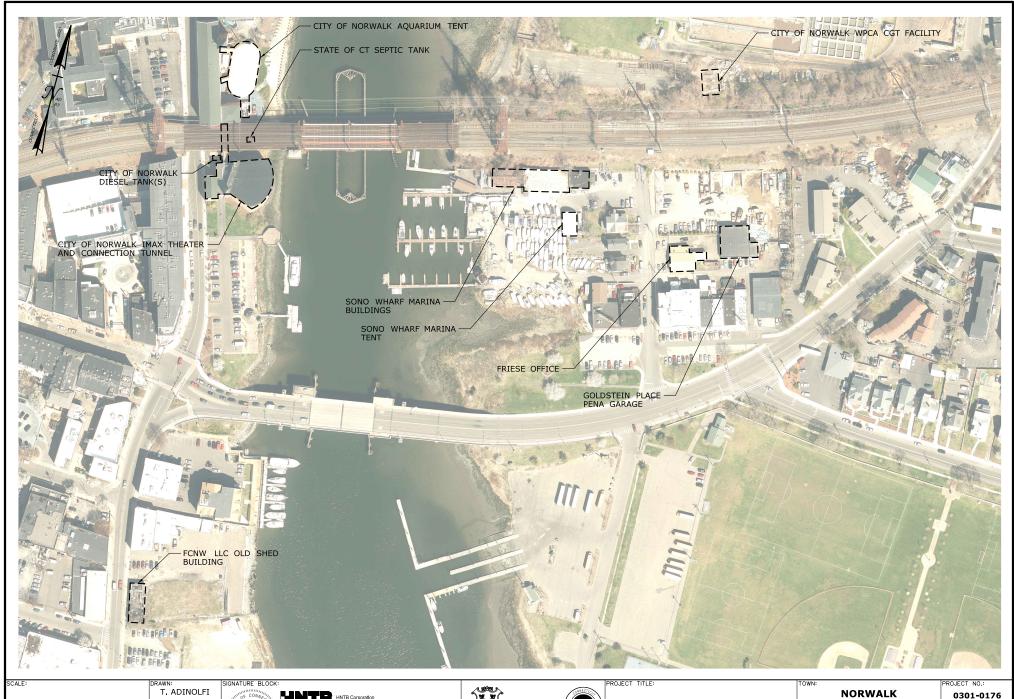












SCALE 1'' = 400'

T. ADINOLFI CHECKED: L. COLES

APPROVED: C. BROWN

HNTB Corporation Engineers Architects Planners

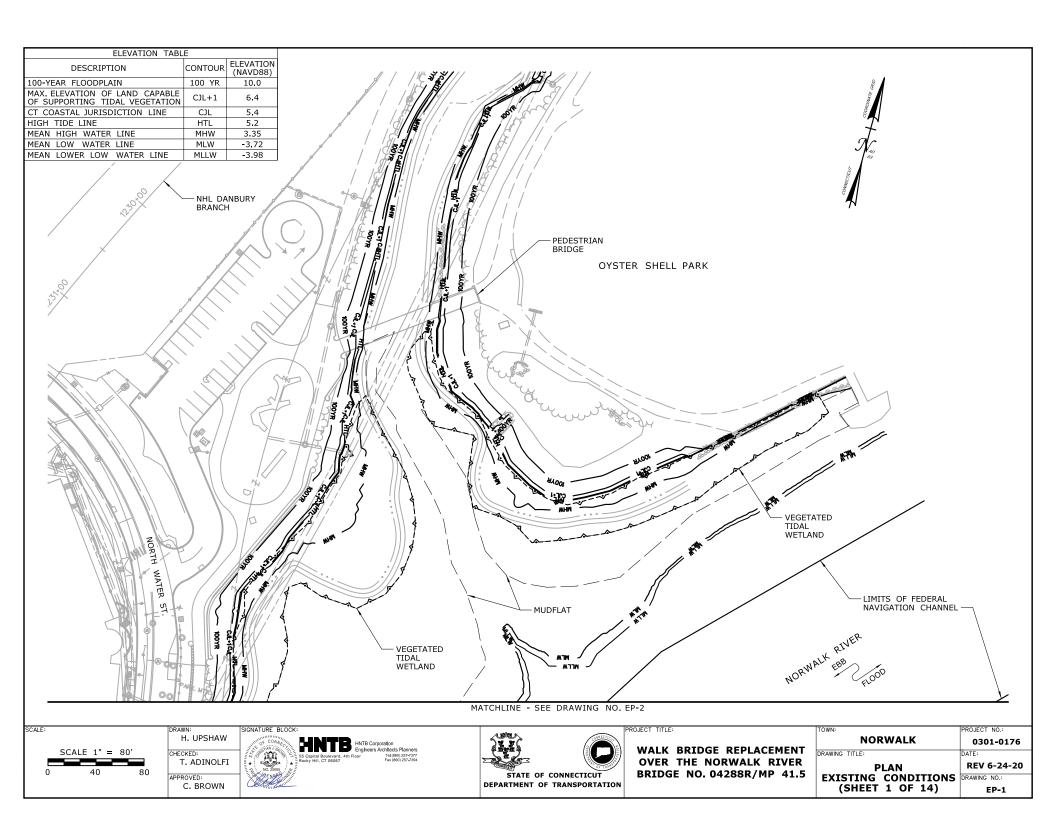


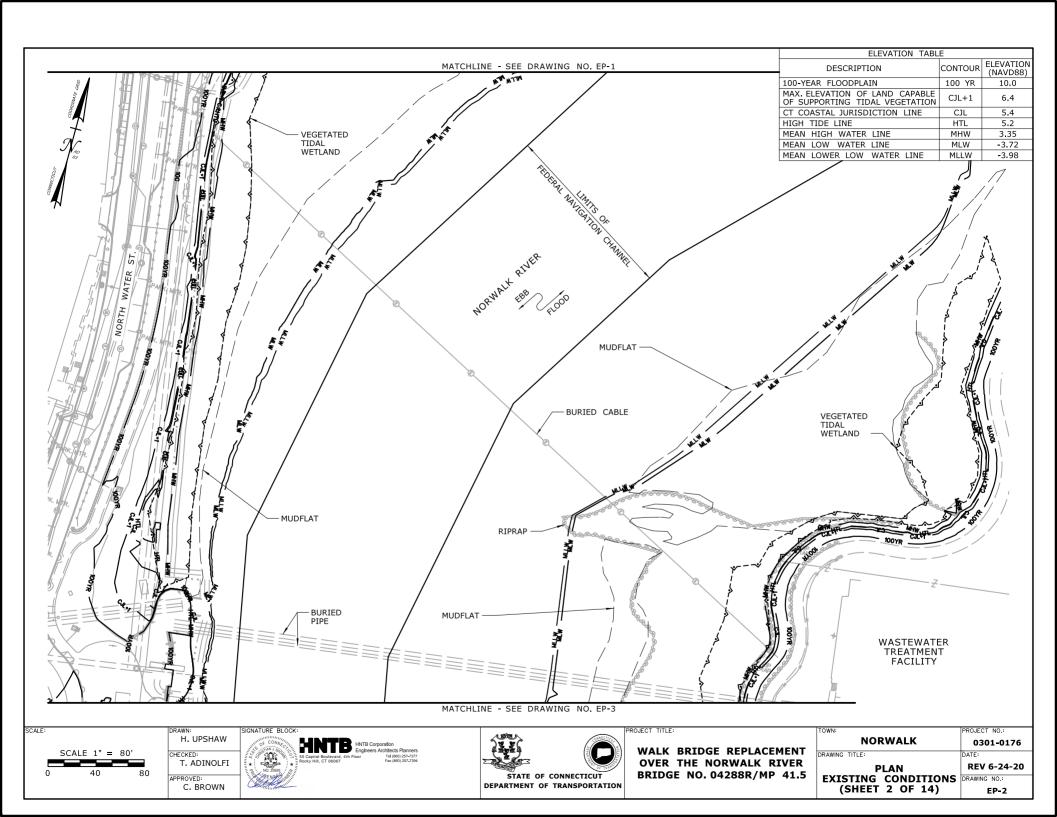
WALK BRIDGE REPLACEMENT OVER THE NORWALK RIVER BRIDGE NO. 04288R/MP 41.5

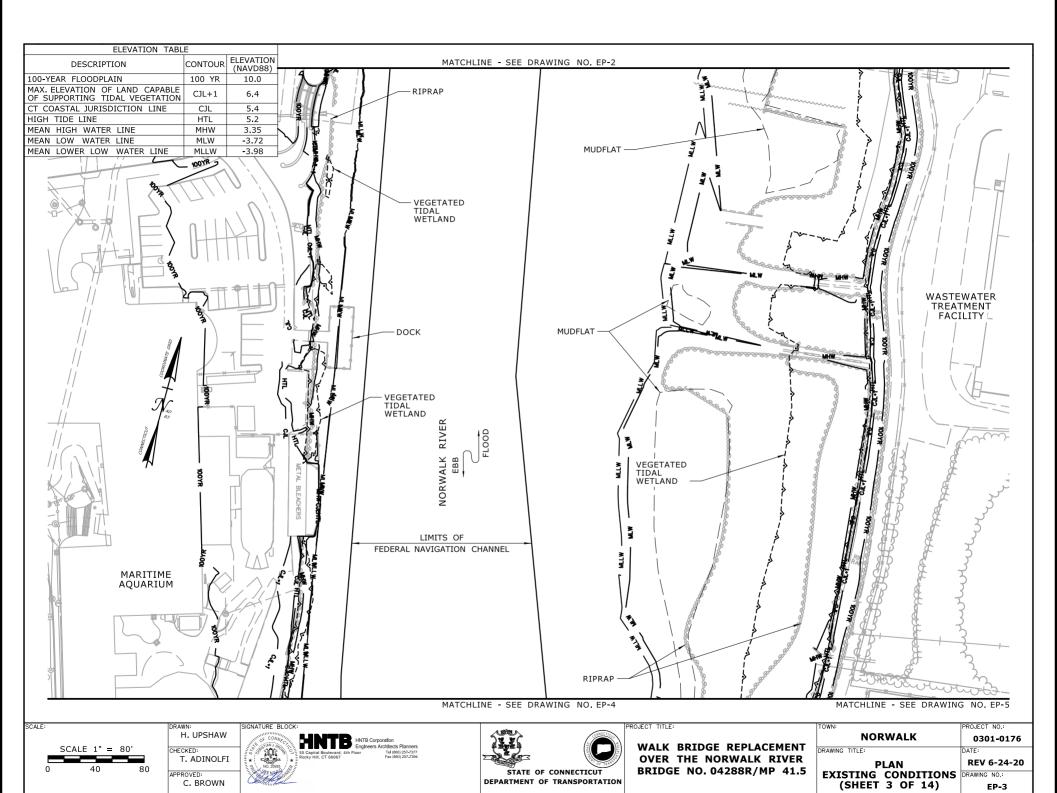
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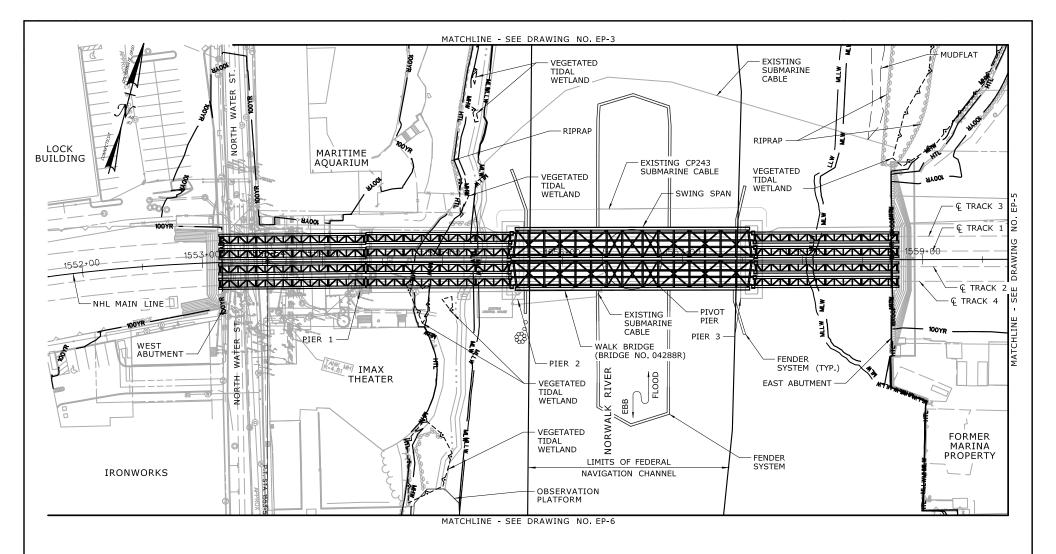
REV 02-17-21

BUILDING DEMOLITION
MAP
REV 02-1 GEN-14









ELEVATION TABLE				
DESCRIPTION	CONTOUR	ELEVATION (NAVD88)		
100-YEAR FLOODPLAIN	100 YR	10.0/12.0		
MAX. ELEVATION OF LAND CAPABLE OF SUPPORTING TIDAL VEGETATION	CJL+1	6.4		
CT COASTAL JURISDICTION LINE	CJL	5.4		
HIGH TIDE LINE	HTL	5.2		
MEAN HIGH WATER LINE	MHW	3.35		
MEAN LOW WATER LINE	MLW	-3.72		
MEAN LOWER LOW WATER LINE	MLLW	-3.98		
SCALE: DRAW	VN:	SIGNATURE		

NOTES:

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

SCALE 1" = 80'

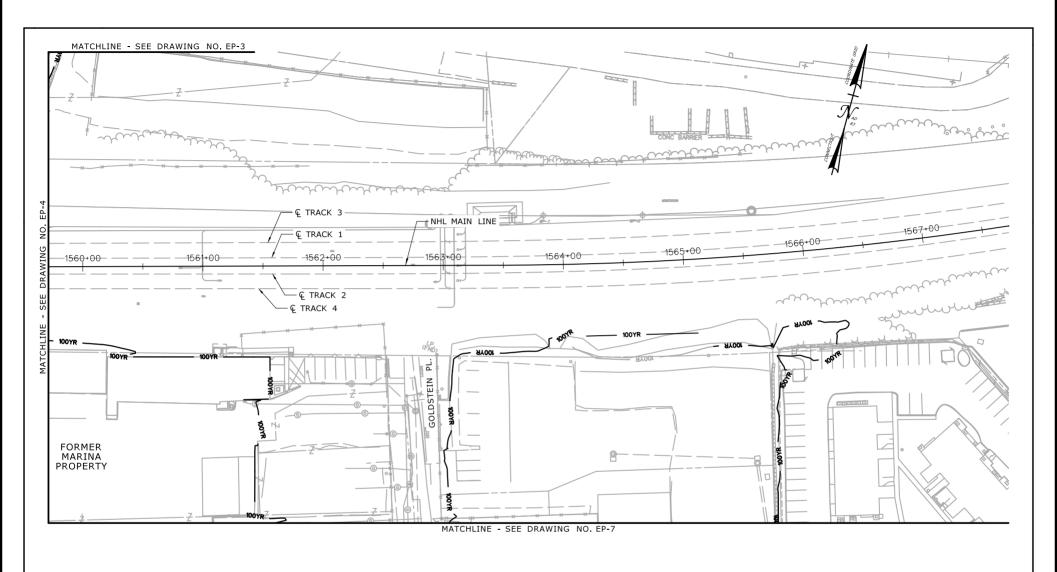
H. UPSHAW CHECKED: T. ADINOLFI APPROVED: C. BROWN

HNTB Corporation Engineers Architects Planners



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

TOWN:	PROJECT NO.:
NORWALK	0301-0176
DRAWING TITLE:	DATE:
PLAN	REV 6-24-20
EXISTING CONDITIONS	DRAWING NO.:
(SHEET 4 OF 14)	FP-4



ELEVATION TABLE		
DESCRIPTION	CONTOUR	ELEVATION (NAVD88)
100-YEAR FLOODPLAIN	100 YR	13.0
MAX. ELEVATION OF LAND CAPABLE OF SUPPORTING TIDAL VEGETATION	CJL+1	6.4
CT COASTAL JURISDICTION LINE	CJL	5.4
HIGH TIDE LINE	HTL	5.2
MEAN HIGH WATER LINE	MHW	3.35
MEAN LOW WATER LINE	MLW	-3.72
MEAN LOWER LOW WATER LINE	MLLW	-3.98
SCALE: DRAV	WN:	SIGNATURE E

SCALE 1" = 80'

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

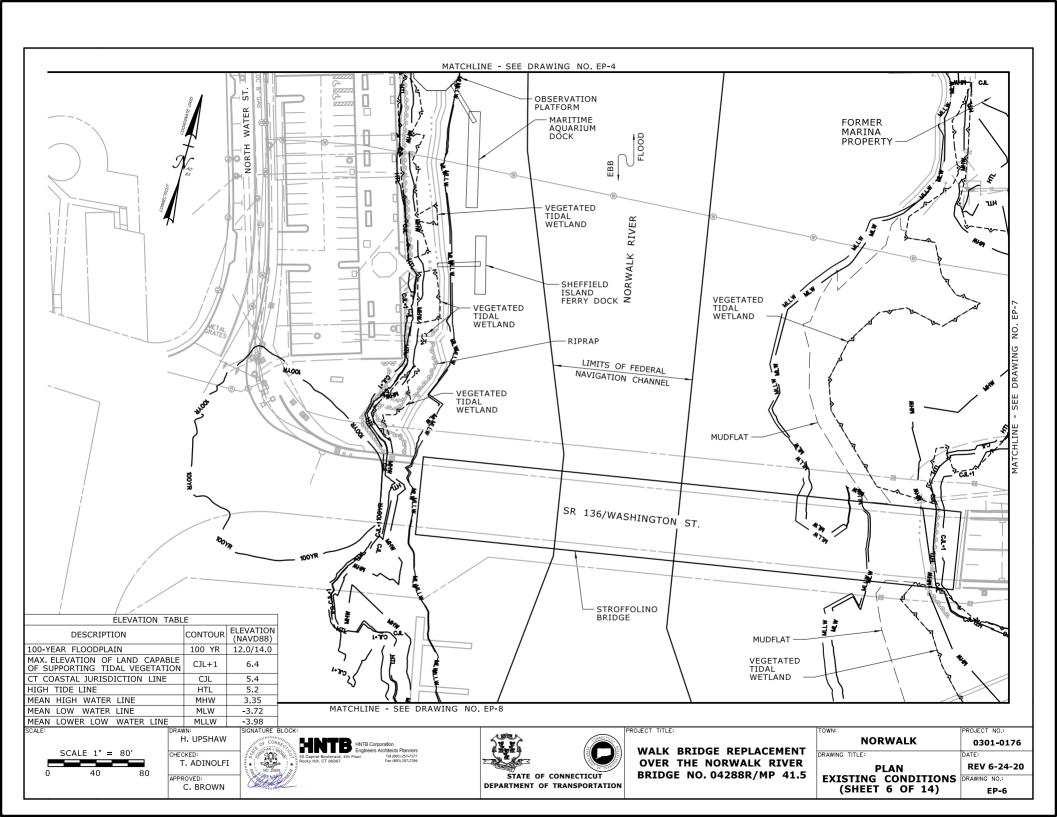


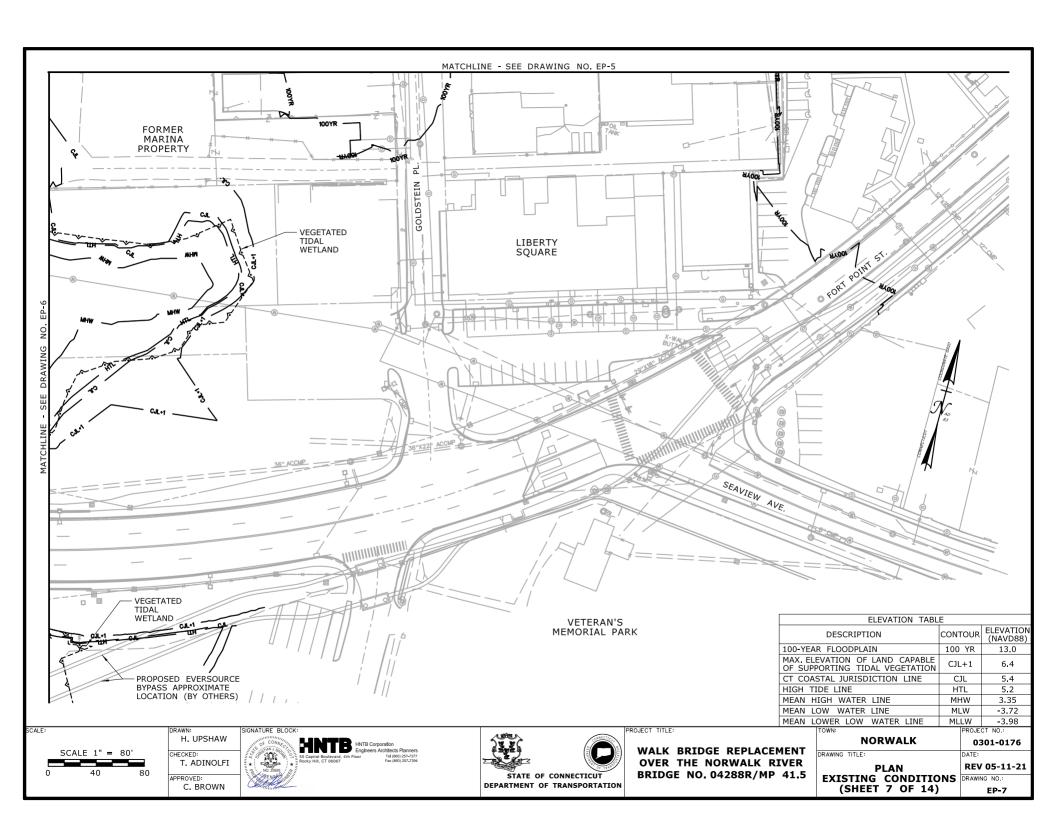
WALK BRIDGE REPLACEMENT **OVER THE NORWALK RIVER** BRIDGE NO. 04288R/MP 41.5

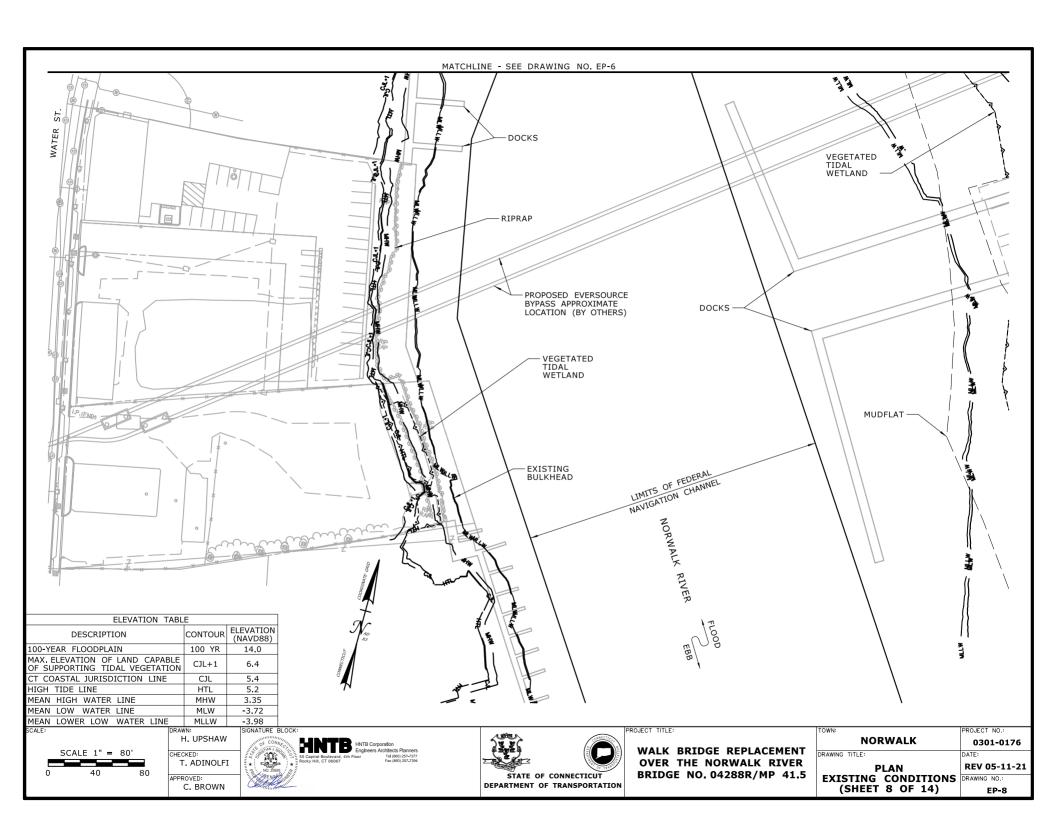
TOWN:	
	NORWALK
DRAWING	TITLE:

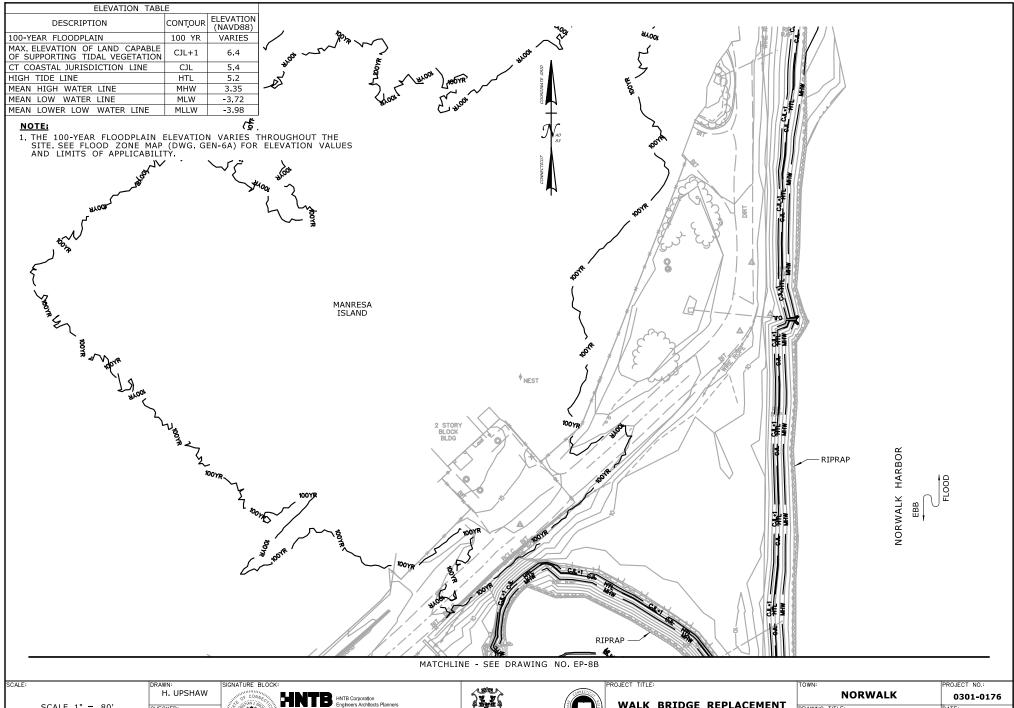
PLAN
EXISTING CONDITIONS
(SHEET 5 OF 14)
REV 6-24
ER-5 **REV 6-24-20** EP-5

0301-0176









SCALE 1" = 80'

CHECKED: T. ADINOLFI APPROVED:

C. BROWN



STATE OF CONNECTICUT DEPARTMENT OF TRANSPORTATION

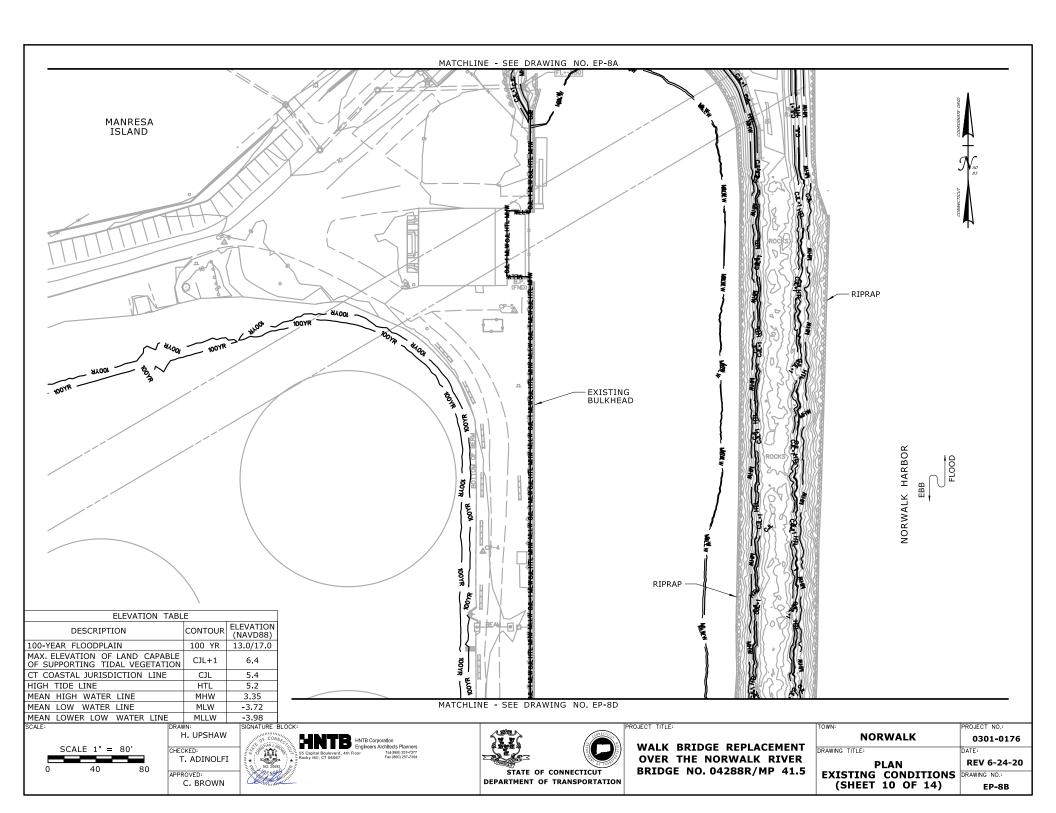
WALK BRIDGE REPLACEMENT **OVER THE NORWALK RIVER** BRIDGE NO. 04288R/MP 41.5

NORWALK					
DRAWING	TITLE:				
	P	LA	N		
	STING				15
(SHEET	9	OF	14)	

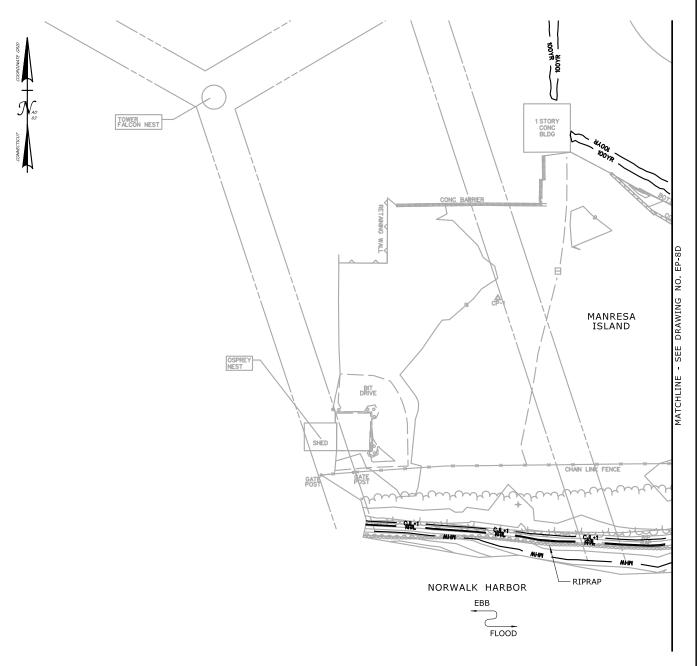
REV 6-24-20

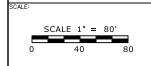
EP-8A

DRAWING NO.:



	ELEVATION (NAVD88)
DESCRIPTION CONTOUR	
100-YEAR FLOODPLAIN 100 YR	13.0/17.0
MAX. ELEVATION OF LAND CAPABLE OF SUPPORTING TIDAL VEGETATION	6.4
CT COASTAL JURISDICTION LINE CJL	5.4
HIGH TIDE LINE HTL	5.2
MEAN HIGH WATER LINE MHW	3.35
MEAN LOW WATER LINE MLW	-3.72
MEAN LOWER LOW WATER LINE MLLW	-3.98





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

0



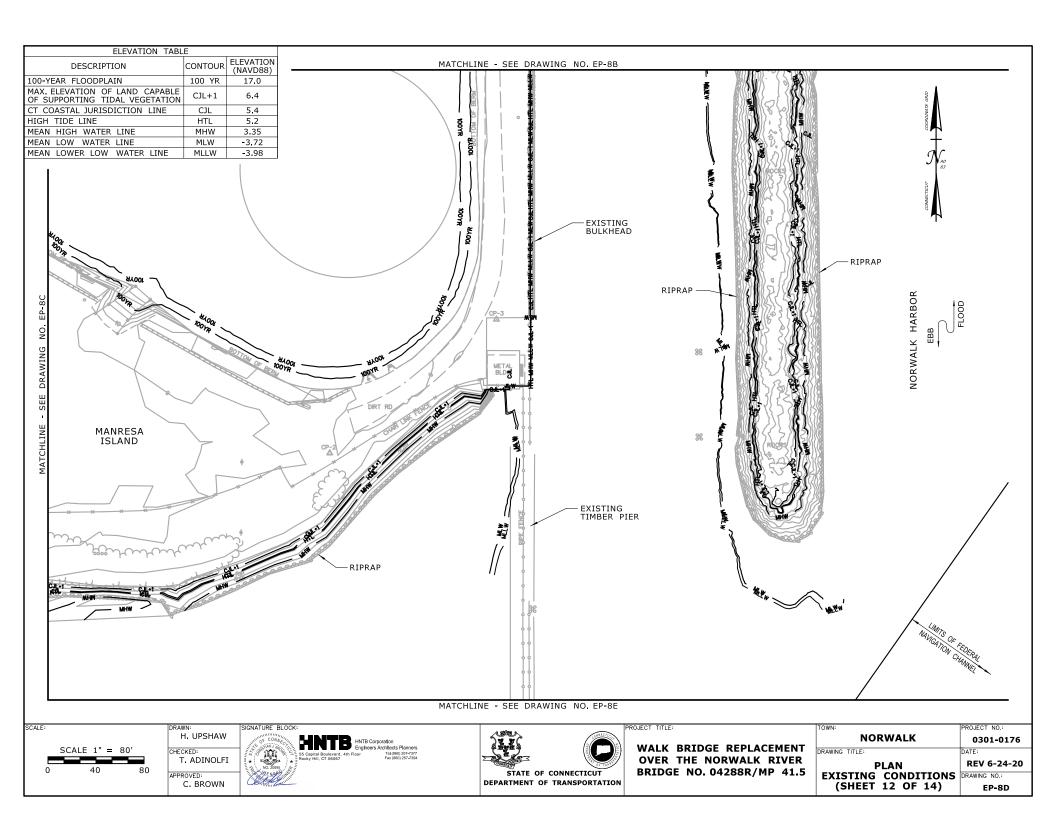


WALK BRIDGE REPLACEMENT OVER THE NORWALK RIVER BRIDGE NO. 04288R/MP 41.5

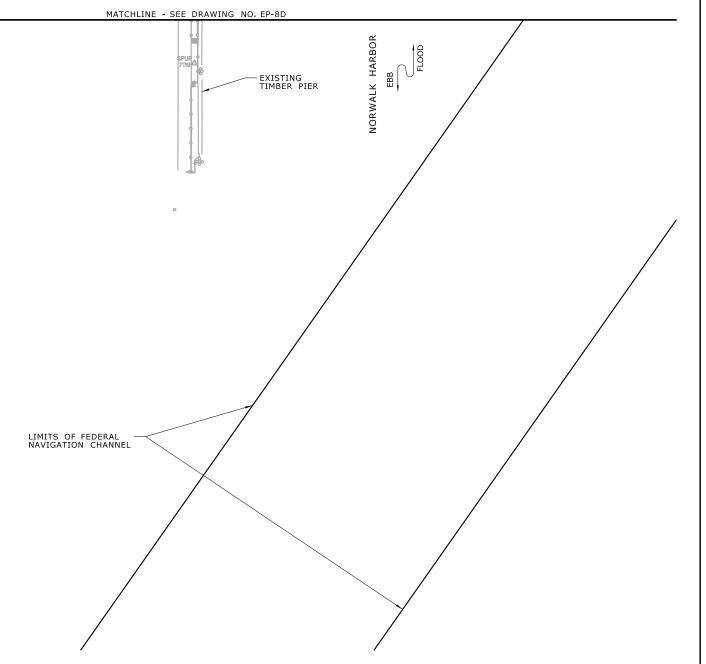
OWN:	PROJECT NO.:
NORWALK	0301-0176
RAWING TITLE:	DATE:
PLAN	REV 6-24-20
EXISTING CONDITIONS	DRAWING NO.:

EP-8C

(SHEET 11 OF 14)



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





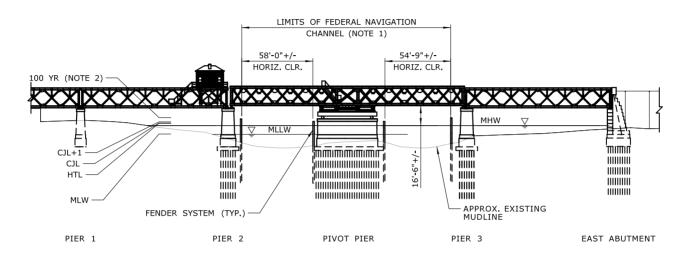
SCALE: SCALE 1" = 80'

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



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

	TOWN:	PROJECT NO.:
	NORWALK	0301-0176
	DRAWING TITLE:	DATE:
PLAN		REV 6-24-20
	EXISTING CONDITIONS	DRAWING NO.:
	(SHEET 13 OF 14)	EP-8E



ELEVATION

(VIEW LOOKING NORTH)

NOTES:

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

ELEVATION TABLE			
DESCRIPTION	CONTOUR	ELEVATION (NAVD88)	
100-YEAR FLOODPLAIN	100 YR	10.0/12.0	
MAX. ELEVATION OF LAND CAPABLE OF SUPPORTING TIDAL VEGETATION	CJL+1	6.4	
CT COASTAL JURISDICTION LINE	CJL	5.4	
HIGH TIDE LINE	HTL	5.2	
MEAN HIGH WATER LINE	MHW	3,35	
MEAN LOW WATER LINE	MLW	-3.72	
MEAN LOWER LOW WATER LINE	MLLW	-3.98	

SCALE 1" = 80'

H. UPSHAW CHECKED: T. ADINOLFI APPROVED:

C. BROWN







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

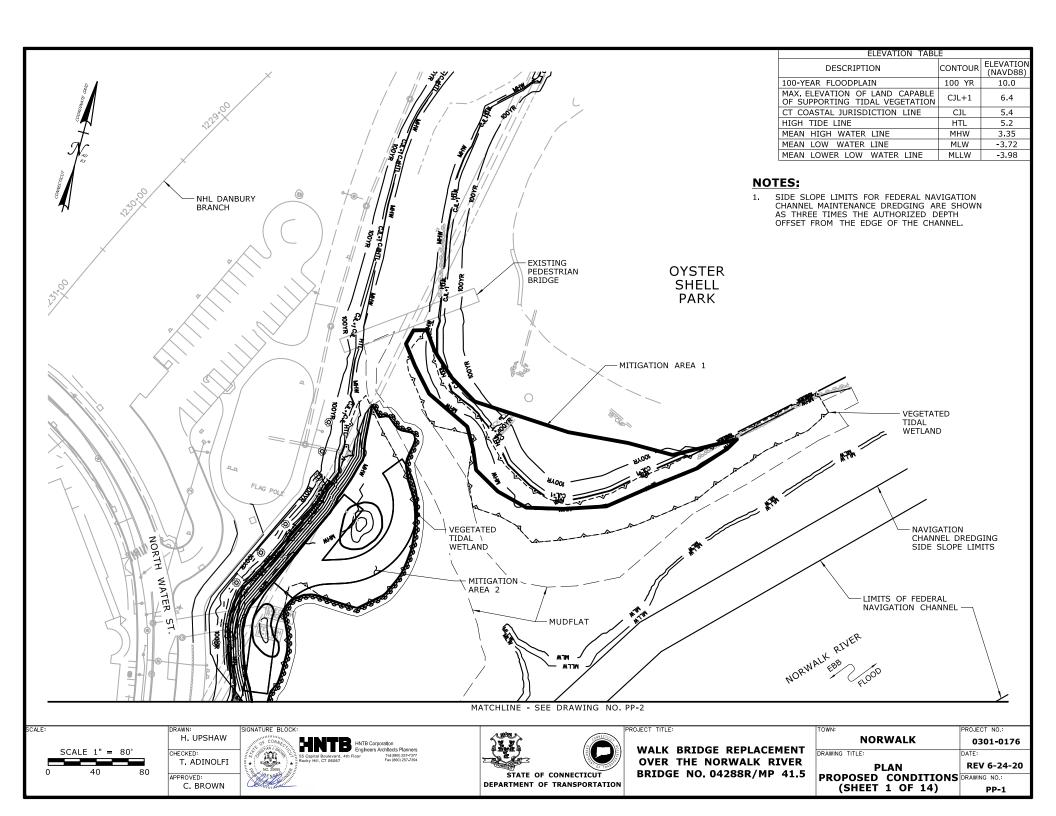
TOWN:		PROJECT NO.:
	NORWALK	0301-0176
DRAWING 7	FITLE:	DATE:

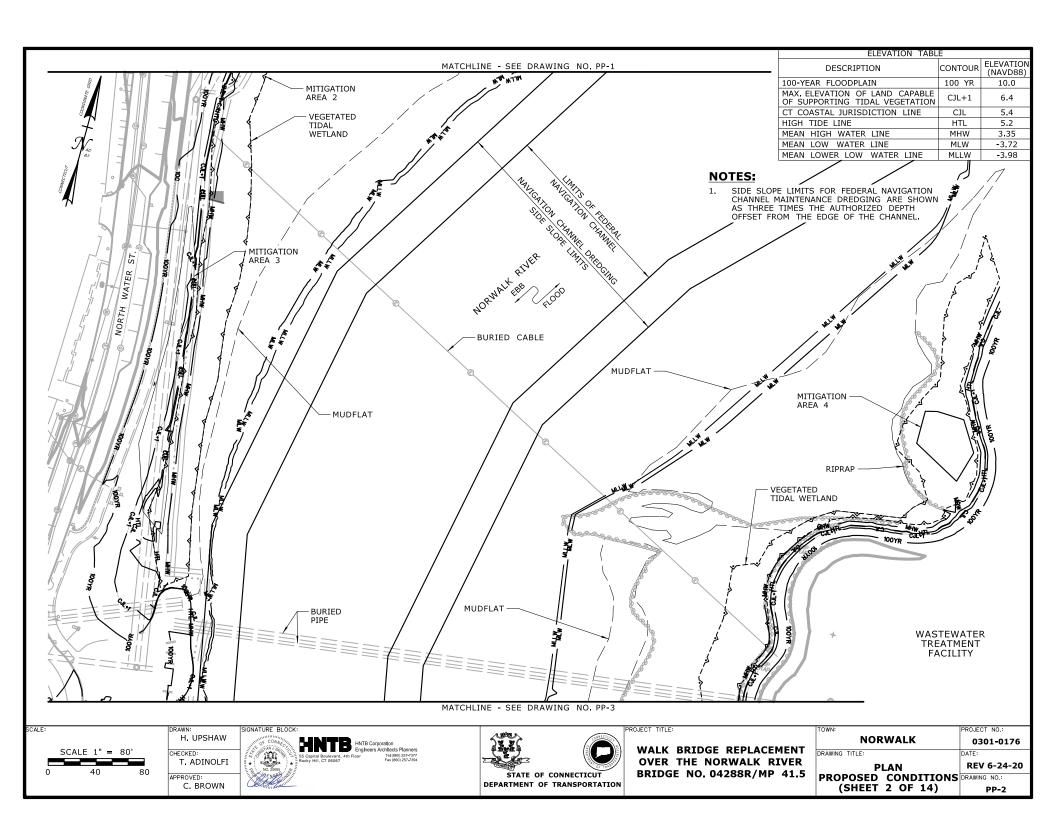
BRIDGE ELEVATION EXISTING CONDITIONS (SHEET 14 OF 14)

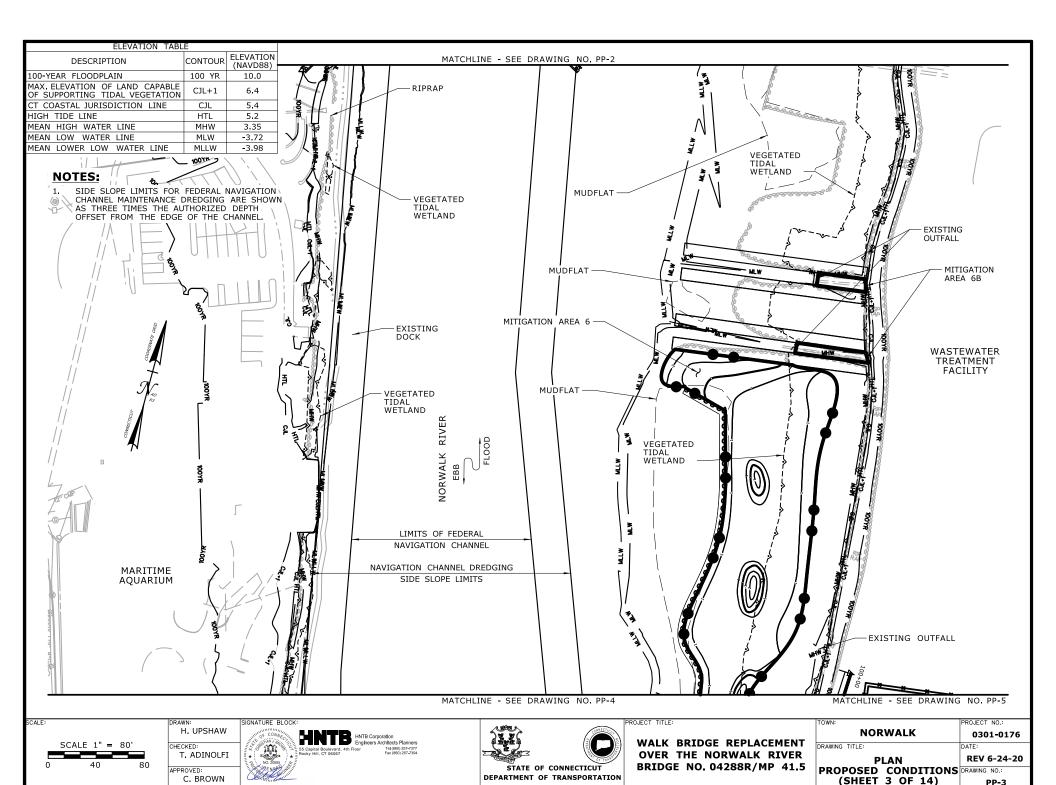
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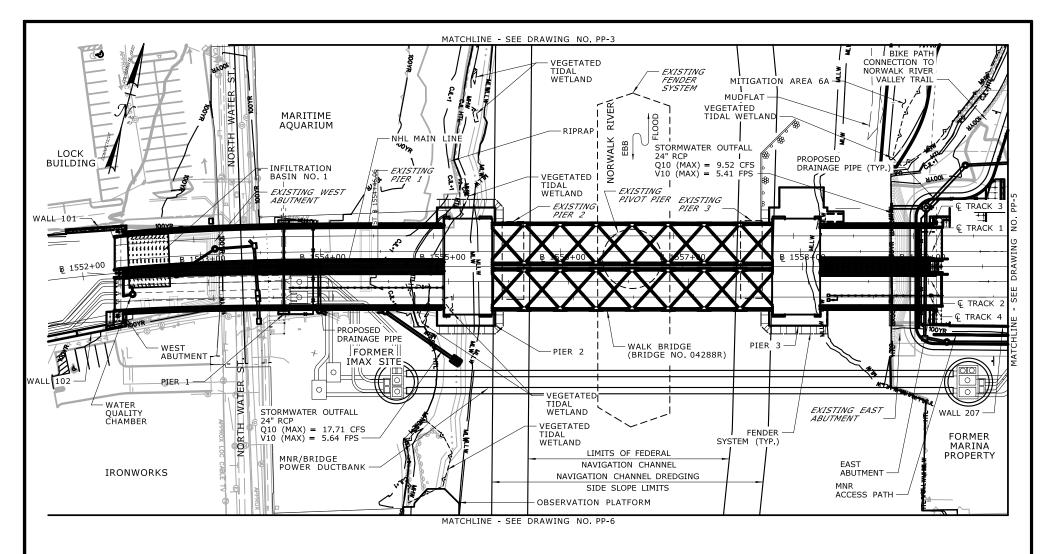
EP-9

REV 6-24-20 EP-9









ELEVATION TABLE				
DESCRIPTION	CONTOUR	ELEVATION (NAVD88)		
100-YEAR FLOODPLAIN	100 YR	10.0/12.0		
MAX.ELEVATION OF LAND CAPABLE OF SUPPORTING TIDAL VEGETATION	CJL+1	6.4		
CT COASTAL JURISDICTION LINE	CJL	5.4		
HIGH TIDE LINE	HTL	5.2		
MEAN HIGH WATER LINE	MHW	3.35		
MEAN LOW WATER LINE	MLW	-3.72		
MEAN LOWER LOW WATER LINE	MLLW	-3.98		
SCALE: DRAV	WN:	SIGNATURE E		

H. UPSHAW SCALE 1" = 80' CHECKED: T. ADINOLFI APPROVED:

C. BROWN

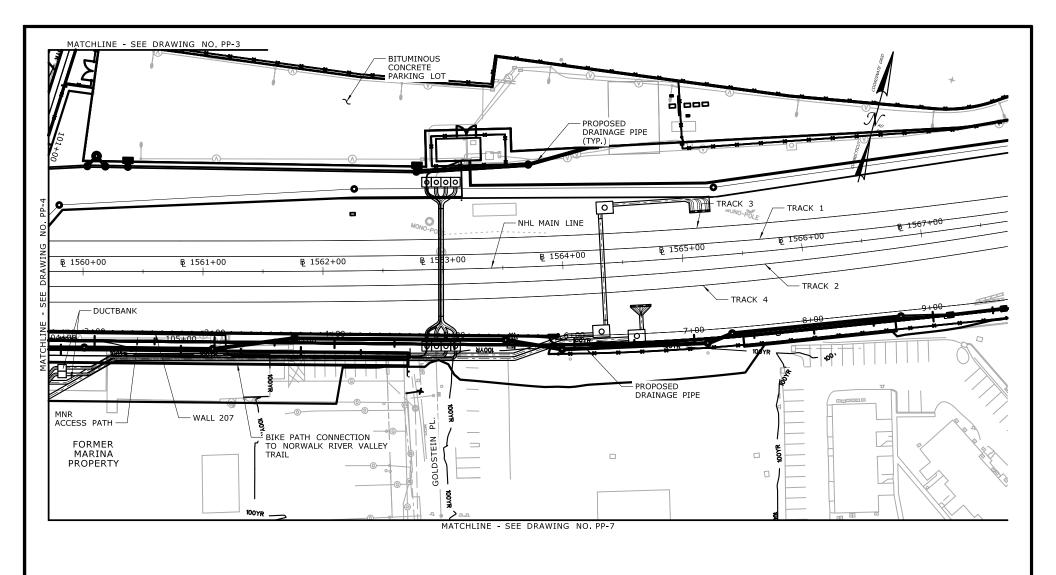
NOTES:

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



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

Ī	TOWN:	PROJECT NO.:
	NORWALK	0301-0176
	DRAWING TITLE:	DATE:
	PLAN	REV 05-11-21
	PROPOSED CONDITIONS	DRAWING NO.:
	(SHEET 4 OF 14)	PP-4



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

SCALE 1" = 80' 0 40 80 H. UPSHAW

CHECKED:
T. ADINOLFI

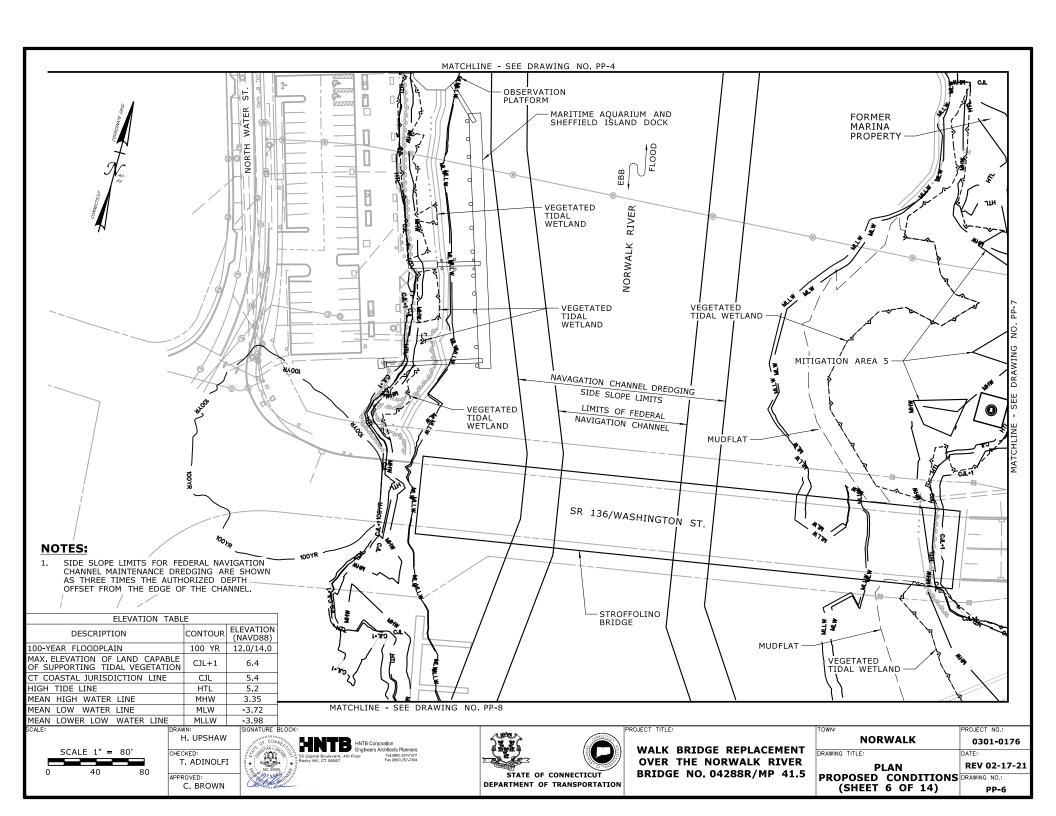
APPROVED:
C. BROWN

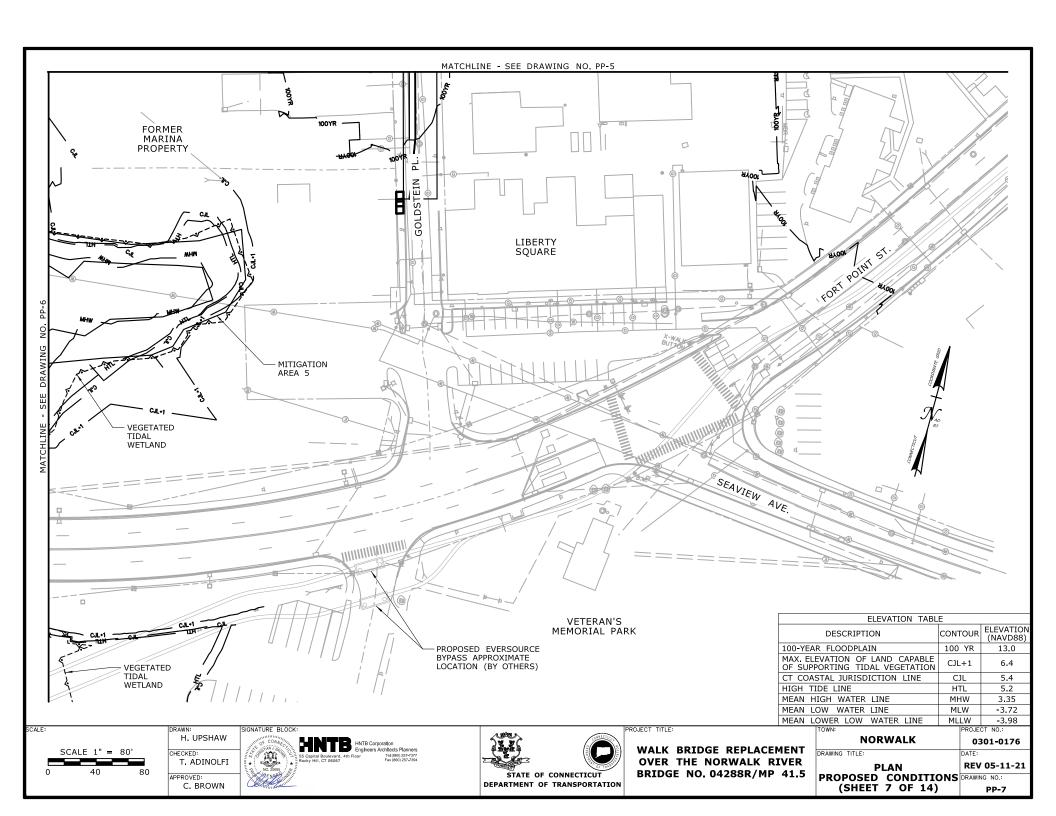
HNTB HNTB Corporation Engineers Architects Planners 55 Capital Boolevard, 4th Floor 141 (860) 2817-779 Fax (861) 2817-794

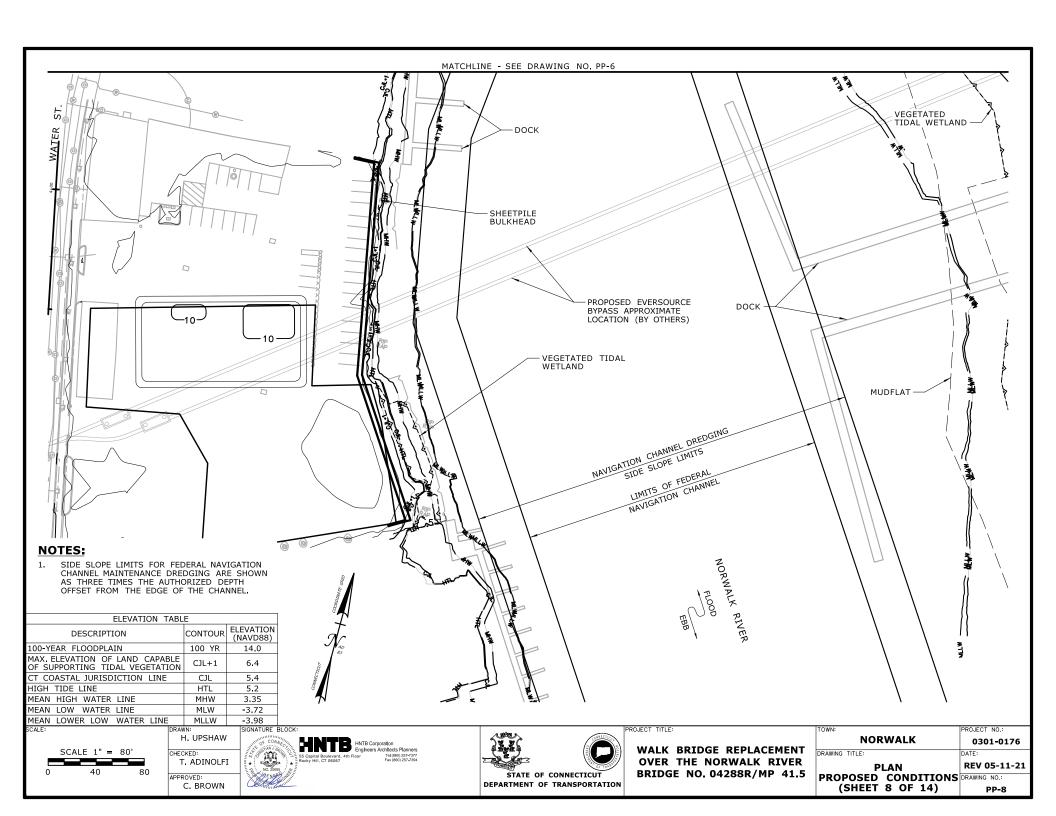


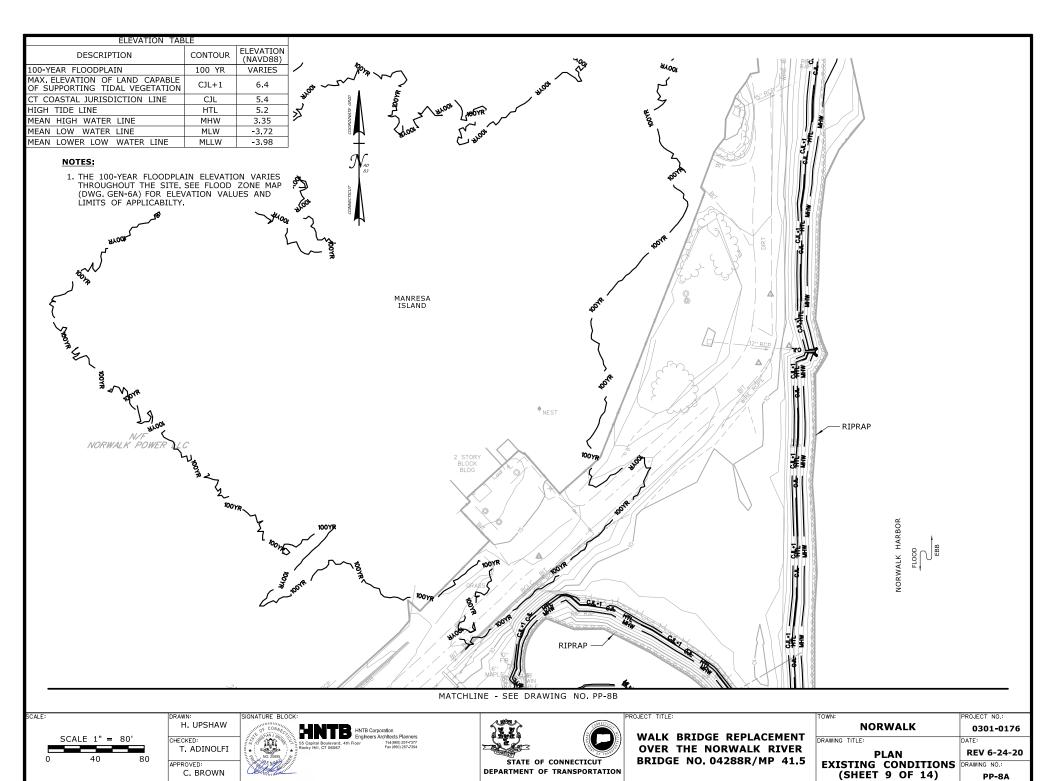
WALK BRIDGE REPLACEMENT OVER THE NORWALK RIVER BRIDGE NO. 04288R/MP 41.5

TOWN:	PROJECT NO.:
NORWALK	0301-0176
DRAWING TITLE:	DATE:
PLAN	REV 05-11-21
PROPOSED CONDITIONS	DRAWING NO.:
(SHEET 5 OF 14)	PP-5





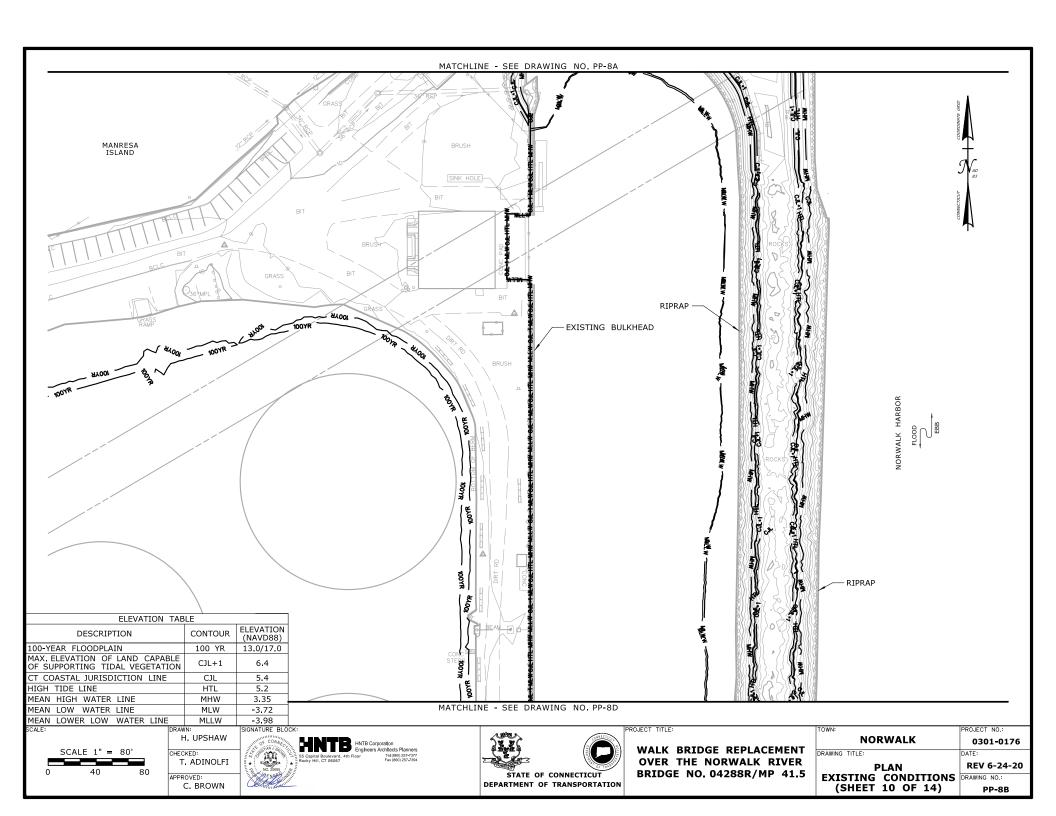




DEPARTMENT OF TRANSPORTATION

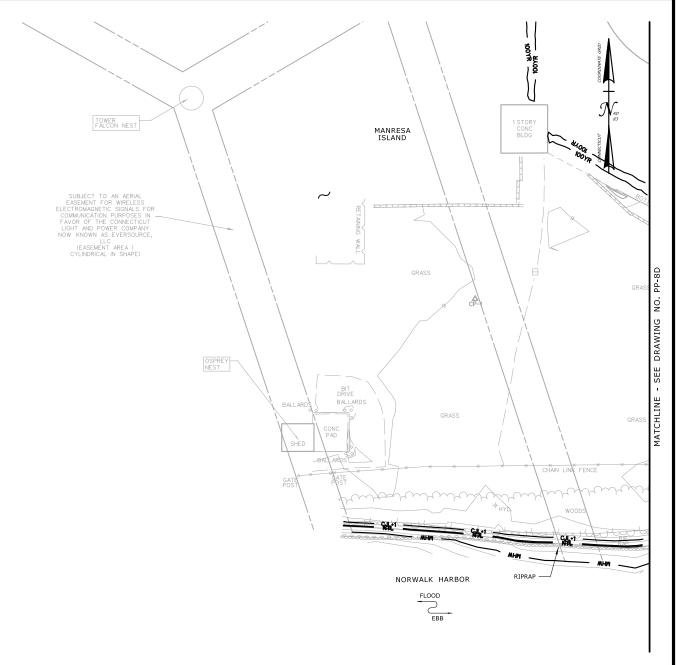
PP-8A

C. BROWN



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





SCALE 1" = 80'

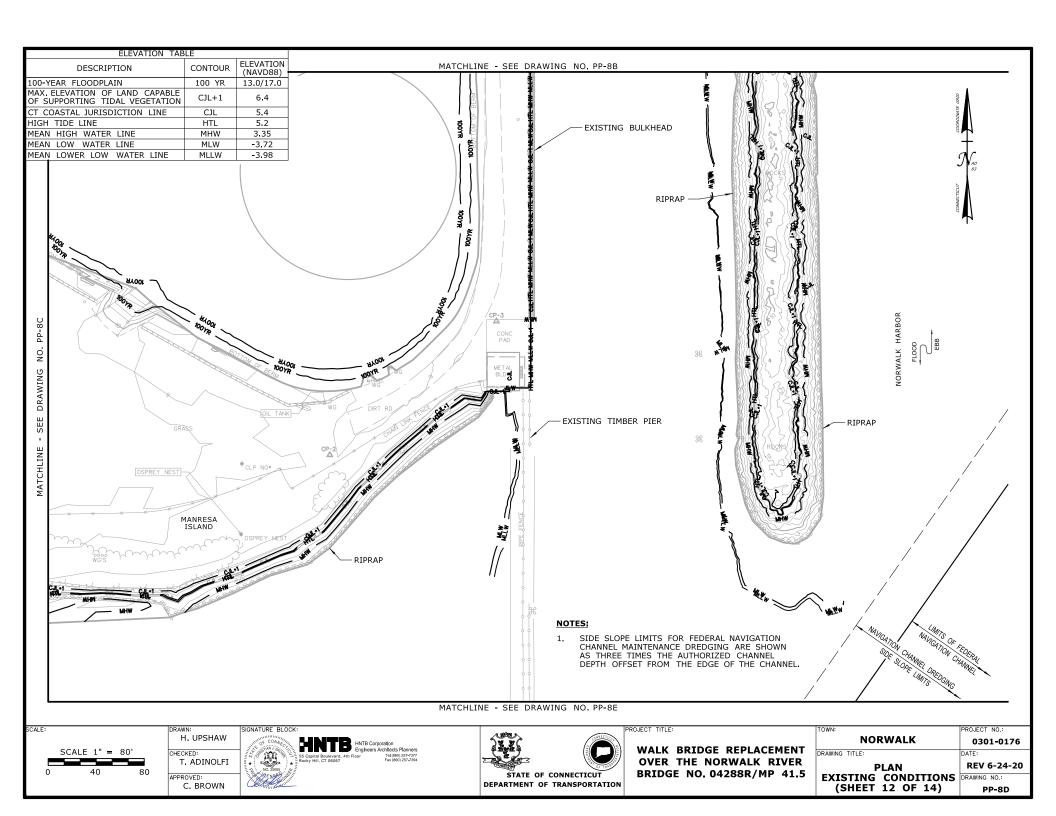
H. UPSHAW CHECKED: T. ADINOLFI APPROVED: C. BROWN

HNTB Corporation
Engineers Architects Planners
Floor Tel (860) 257-7377
Fax (860) 257-7394



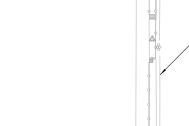
WALK BRIDGE REPLACEMENT **OVER THE NORWALK RIVER** BRIDGE NO. 04288R/MP 41.5

(SHEET 11 OF 14)	PP-8C
EXISTING CONDITIONS	DRAWING NO.:
PLAN	REV 6-24-20
DRAWING TITLE:	DATE:
NORWALK	0301-0176
TOWN:	PROJECT NO.:

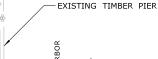


ELEVATION TABLE			
DESCRIPTION	CONTOUR	ELEVATION (NAVD88)	
100-YEAR FLOODPLAIN	100 YR	17.0	
MAX. ELEVATION OF LAND CAPABLE OF SUPPORTING TIDAL VEGETATION	CJL+1	6.4	
CT COASTAL JURISDICTION LINE	CJL	5.4	
HIGH TIDE LINE	HTL	5.2	
MEAN HIGH WATER LINE	MHW	3.35	
MEAN LOW WATER LINE	MLW	-3.72	
MEAN LOWER LOW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



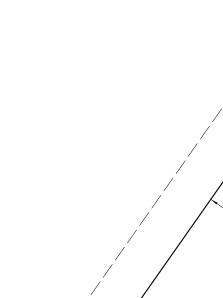


MATCHLINE - SEE DRAWING NO. PP-8D



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.





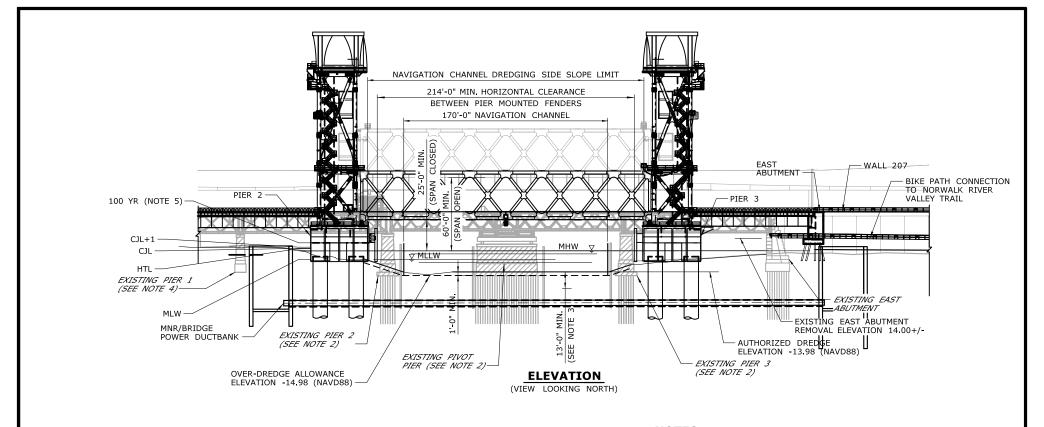
WALK BRIDGE REPLACEMENT OVER THE NORWALK RIVER BRIDGE NO. 04288R/MP 41.5

TOWN:	PROJECT NO.:
NORWALK	0301-0176
DRAWING TITLE:	DATE:
PLAN	REV 6-24-20
LXISTING CONDITIONS	DRAWING NO.:
(SHEET 13 OF 14)	PP-8E

SCALE 1" = 80'

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

STATE OF CONNECTICUT DEPARTMENT OF TRANSPORTATION



NOTES:

- AUTHORIZED DREDGE ELEVATION FOR THE FEDERAL NAVIGATION CHANNEL IS 10 FEET BELOW MLLW (-13.98 NAVD88).
- 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.
- MNR AND BRIDGE POWER DUCTBANK CROSSINGS WILL BE INSTALLED AT LEAST 13 FEET BELOW THE AUTHORIZED DREDGE ELEVATION WITHIN LIMITS OF FEDERAL NAVIGATION CHANNEL.
- EXISTING FOUNDATIONS AT PIER 1 AND WEST ABUTMENT WILL BE REMOVED TO AT LEAST 2 FEET BELOW SURROUNDING GRADE.
- THE 100-YEAR FLOOD ELEVATION VARIES THROUGHOUT THE SITE.
 WITHIN THE RIVER, IT IS DEFINED AS EL. 12 AND EL. 10 DOWNSTREAM
 AND UPSTREAM OF THE BRIDGE, RESPECTIVELY. SEE FLOOD ZONE MAP
- SIDE SLOPE LIMITS FOR FEDERAL NAVIGATION CHANNEL MAINTENANCE DREDGING ARE SHOWN AS THREE TIMES THE AUTHORIZED DEPTH OFFSET FROM THE EDGE OF THE CHANNEL. SEE FLOOD ZONE MAP (DWG. NO. GEN-6) FOR ADDITIONAL INFORMATION.

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

SCALE 1" = 80'
0 40 80

H, UPSHAW

CHECKED:
T, ADINOLFI

APPROVED:
C, BROWN

SIGNATURE BLOCK:

HNTB HNTB Corporation
Engineers Architects Planners

55 Capital Boulevard, 4th Floor Tal (869) 287-7394

NO. 2898

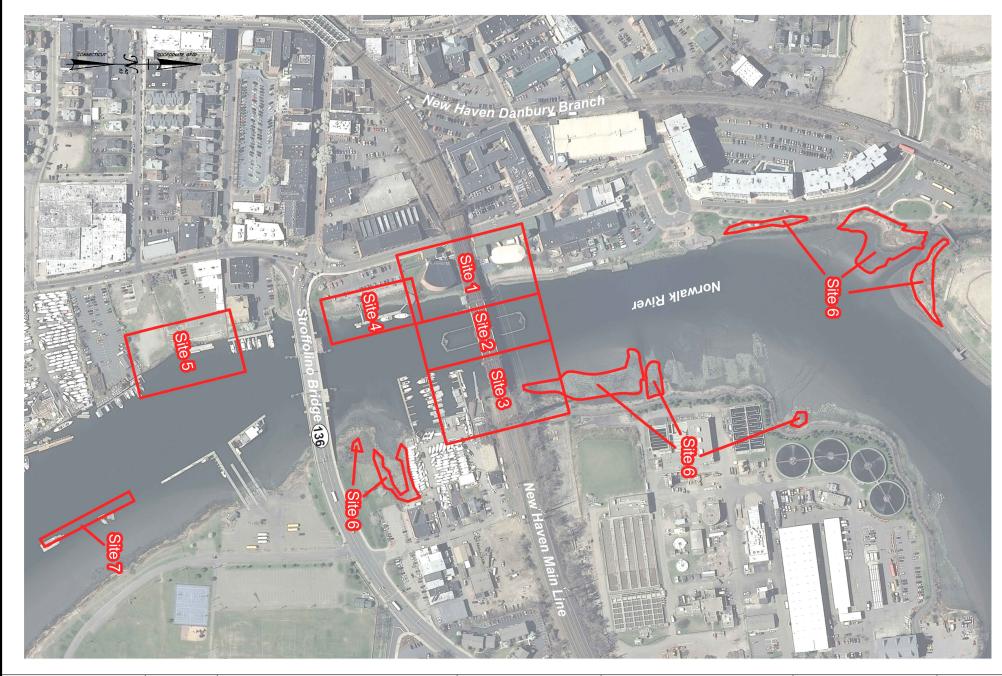


WALK BRIDGE REPLACEMENT OVER THE NORWALK RIVER BRIDGE NO. 04288R/MP 41.5

Ì	DRAWING TITLE:	DATE:
	NORWALK	PROJECT NO.: 0301-0176

PROPOSED CONDITIONS DRAWING NO.:

(SHEET 14 OF 14)



SCALE: SCALE 1" = 300'

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



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

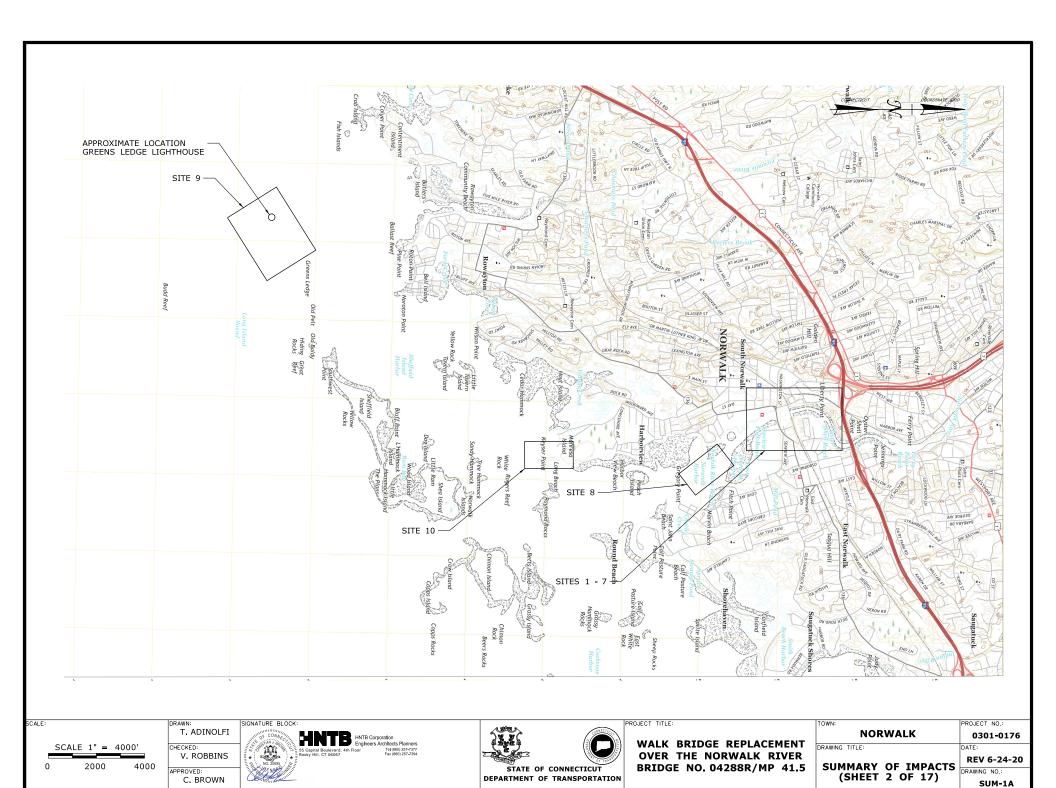
TOWN:		PROJECT NO.:
	NORWALK	0301-0176
DRAWING	TITLE:	DATE:

SUMMARY OF IMPACTS REV 6-24
(SHEET 1 OF 17)

REV 6-24

DRAWING NO.:
SUM-

REV 6-24-20 SUM-1



SUMMARY OF TEMPORARY IMPACTS (SF)						
		STA	ATE		FEDI	ERAL
SITE	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)						
		STA	FEDERAL			
SITE	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								
	MAINTENANCE/NAVIGATION CHANNEL				NEW			
SITE	REMOVAL		FILL	NET	REMOVAL		FILL	NET
	(SF)	(CY)	(CY)	(CY)	(SF)	(CY)	(CY)	(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.
- 2. FOR PLAN LIMITS OF SITES USED FOR IMPACT SUMMARIES, SEE DWG. SUM-1.
- 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.
- SITE 6 CONSIST OF SIX INDIVIDUAL WETLAND MITIGATION SITES ALONG THE NORWALK RIVER, THERE ARE NO IMPACTS ASSOCIATED WITH SITE 6.
- 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.
- 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.
- INTERTIDAL ZONE IMPACTS INCLUDE AREAS BETWEEN MLW AND HTL THAT ARE NOT WITHIN A VEGETATED TIDAL WETLAND OR INTERTIDAL FLAT.
- 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)			
100-YEAR FLOODPLAIN	100 YR	SEE NOTE 18			
MAX. ELEVATION OF LAND CAPABLE OF SUPPORTING TIDAL VEGETATION	CJL+1	6.4			
CT COASTAL JURISDICTION LINE	CJL	5.4			
HIGH TIDE LINE	HTL	5.2			
MEAN HIGH WATER LINE	MHW	3.35			
MEAN LOW WATER LINE	MLW	-3.72			
MEAN LOWER LOW WATER LINE	MLLW	-3.98			
TOWN:	PROJECT NO.:				

CALF:

T. ADINOLFI

CHECKED:
V. ROBBINS

C. BROWN

APPROVED

SIGNATURE BLOCK:

THE STATE OF THE STATE OF



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

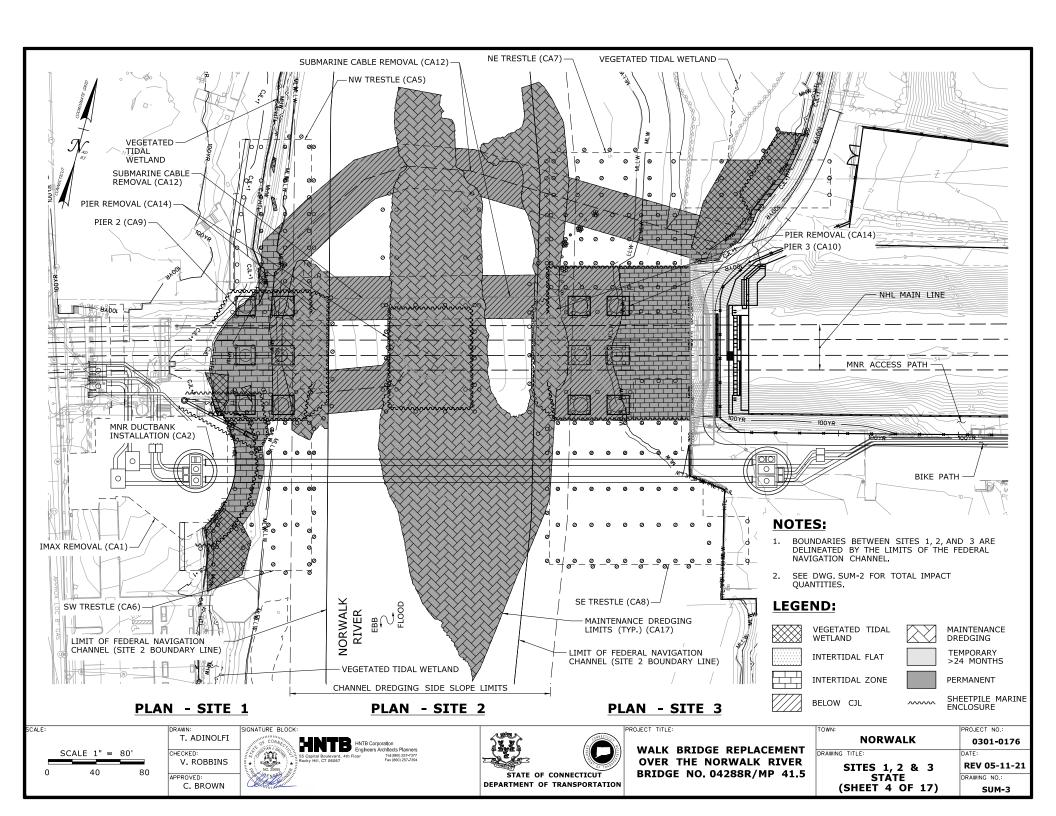
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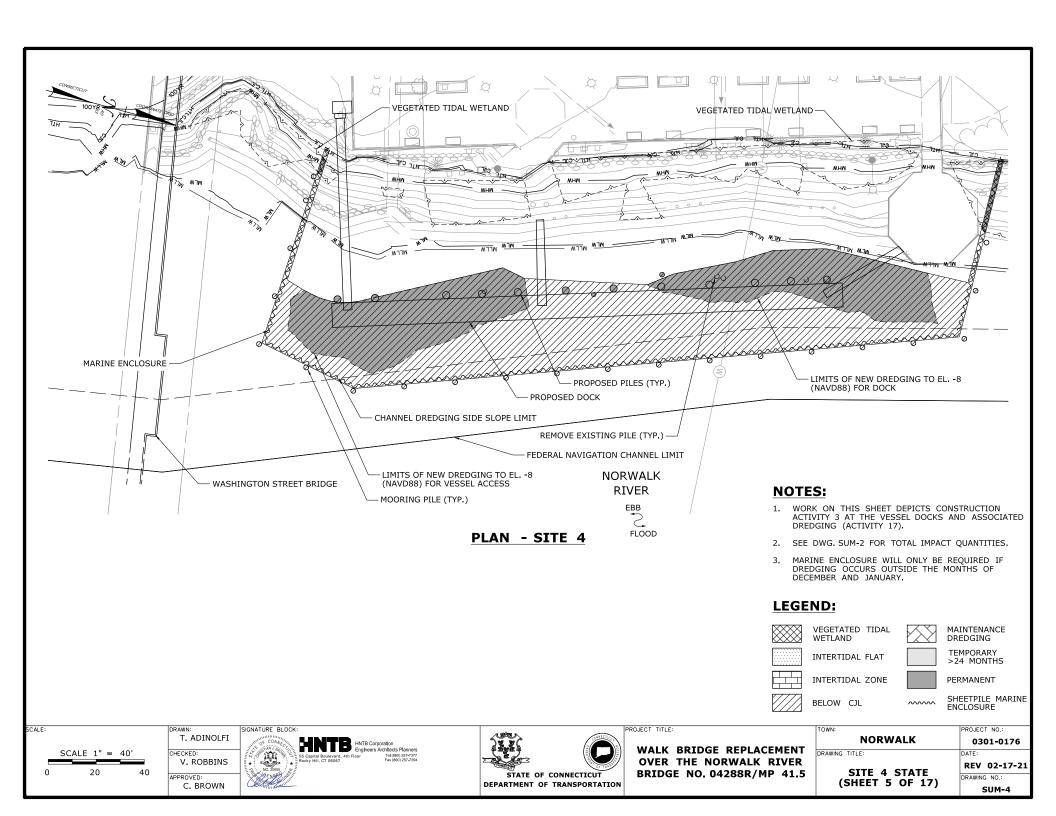
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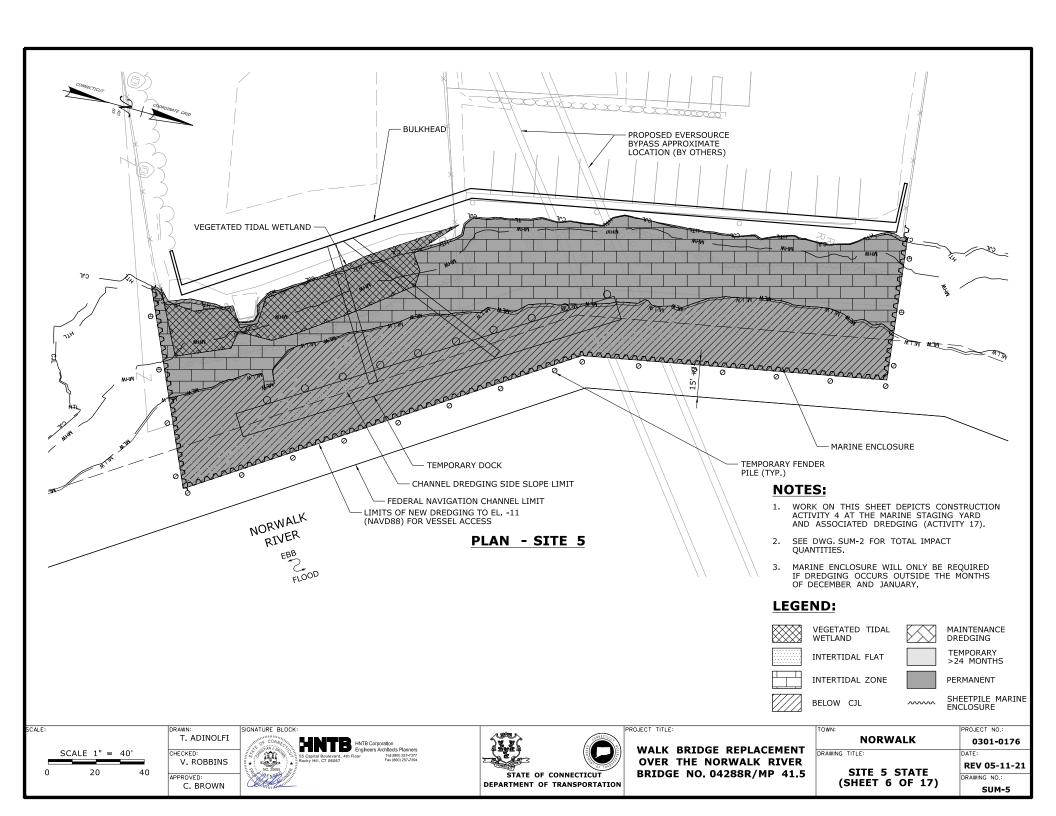
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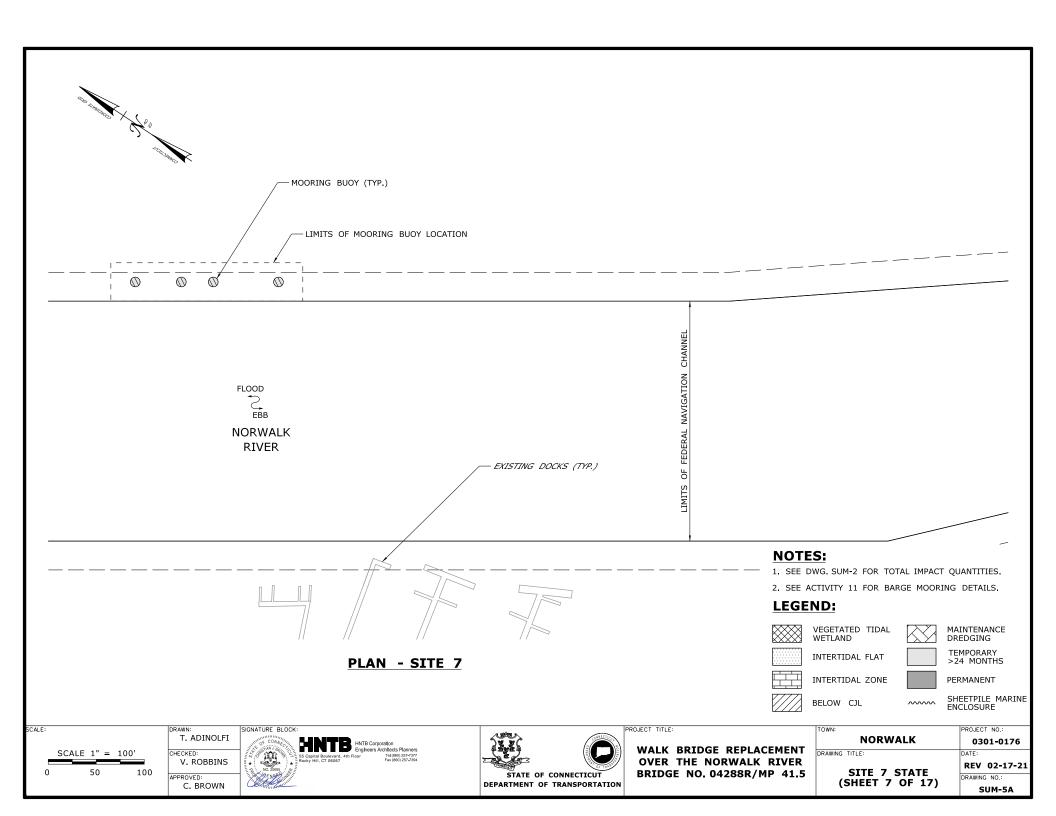
REV 02-17-21

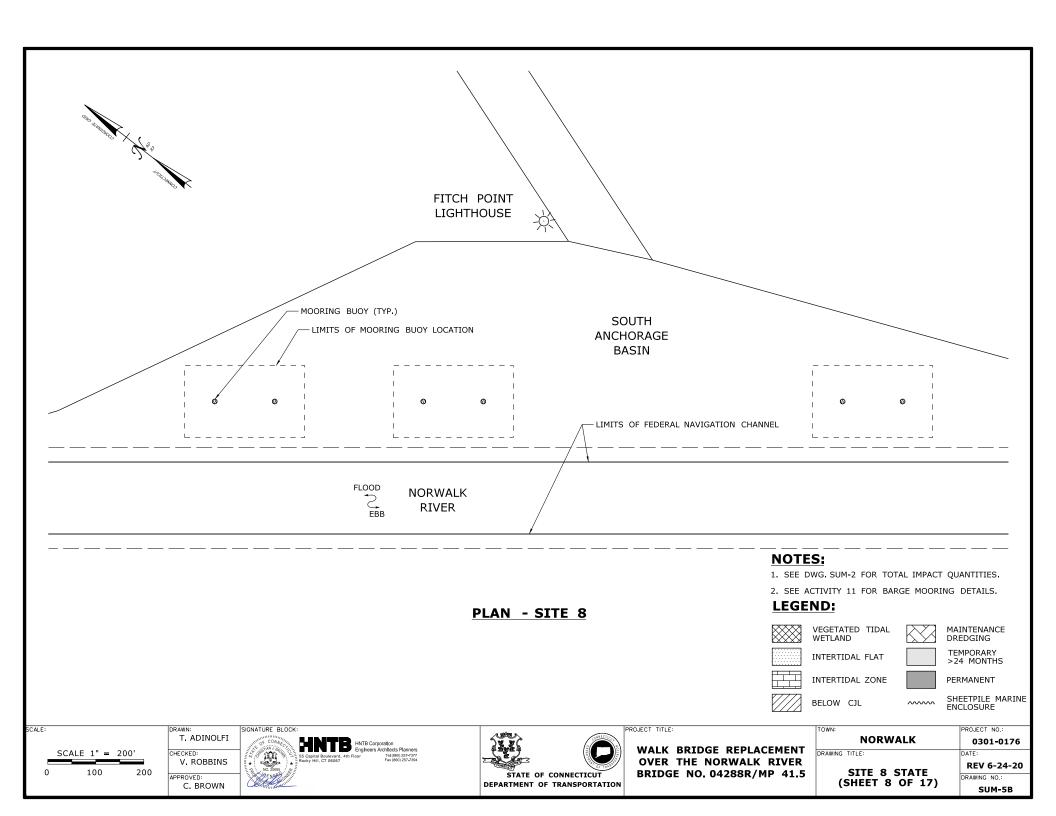
SUM-2



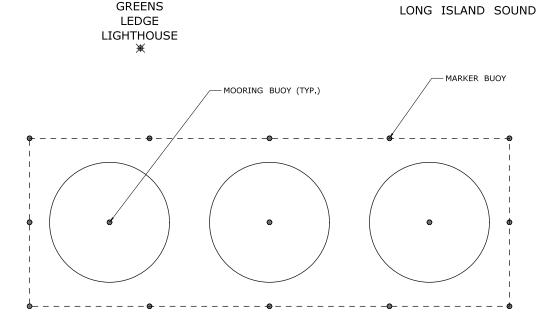












PLAN - SITE 9

NOTES:

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

LEGEND:



VEGETATED TIDAL WETLAND



MAINTENANCE DREDGING



INTERTIDAL FLAT



TEMPORARY >24 MONTHS

PROJECT NO.:



INTERTIDAL ZONE



PERMANENT



BELOW CJL



SCALE 1'' = 400'

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

SIGNATURE BLOCK:





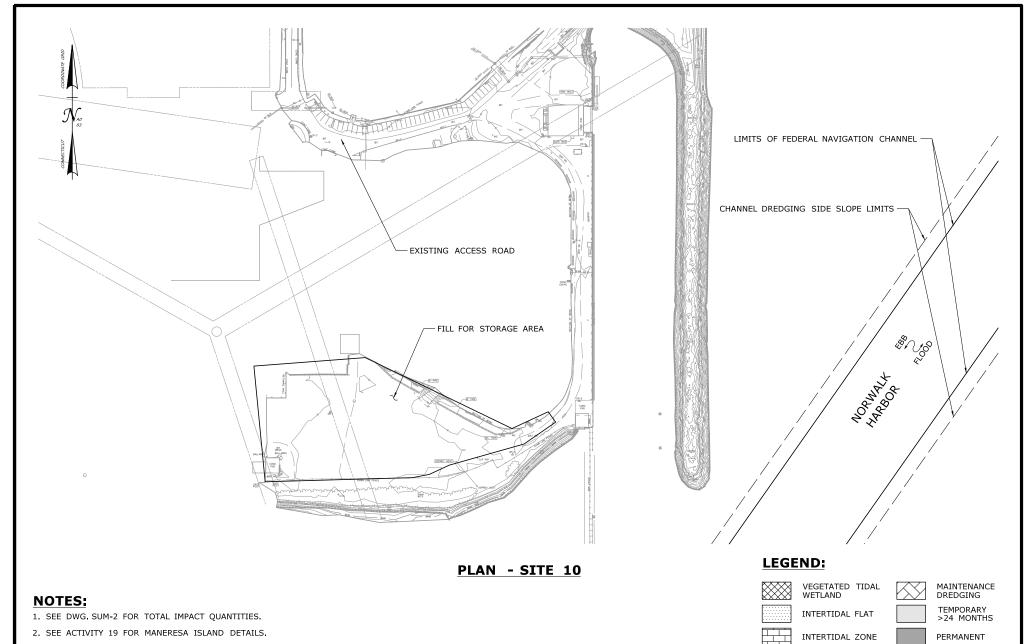
WALK BRIDGE REPLACEMENT **OVER THE NORWALK RIVER** BRIDGE NO. 04288R/MP 41.5

TOWN: NORWALK DRAWING TITLE:

SITE 9 STATE (SHEET 9 OF 17)

REV 02-17-21 DRAWING NO.: SUM-5C

0301-0176



3. NO FILL SHALL BE PLACED BELOW THE CJL.

SCALE 1" = 200' T, ADINOLFI CHECKED: V, ROBBINS APPROVED: DRAWN: T, ADINOLFI CHECKED: V, ROBBINS APPROVED: SIGNATURE BLOCK: T, ADINOLFI Engleers Archi Engleers Archi Engleers Archi Fig. Rocky Hill, CT 06067 Fig.

C. BROWN



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

BELOW CJL SHEETPILE MARINE ENCLOSURE

TOWN:

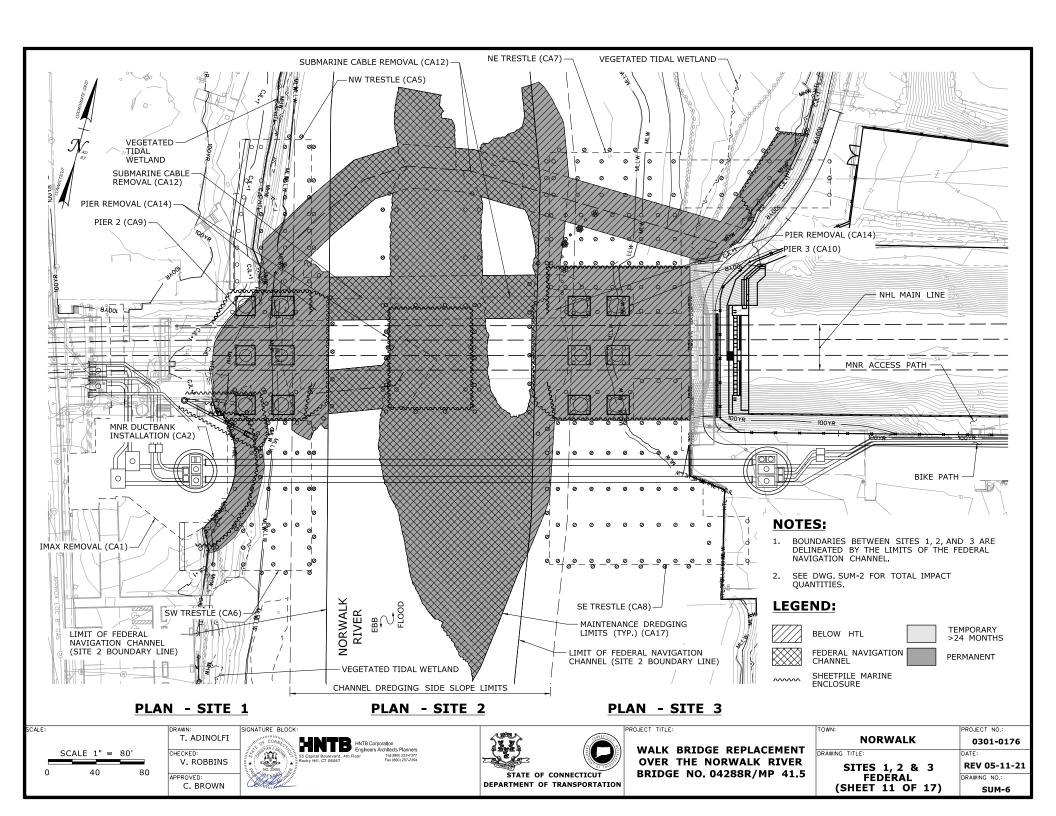
NORWALK PROJECT NO.:

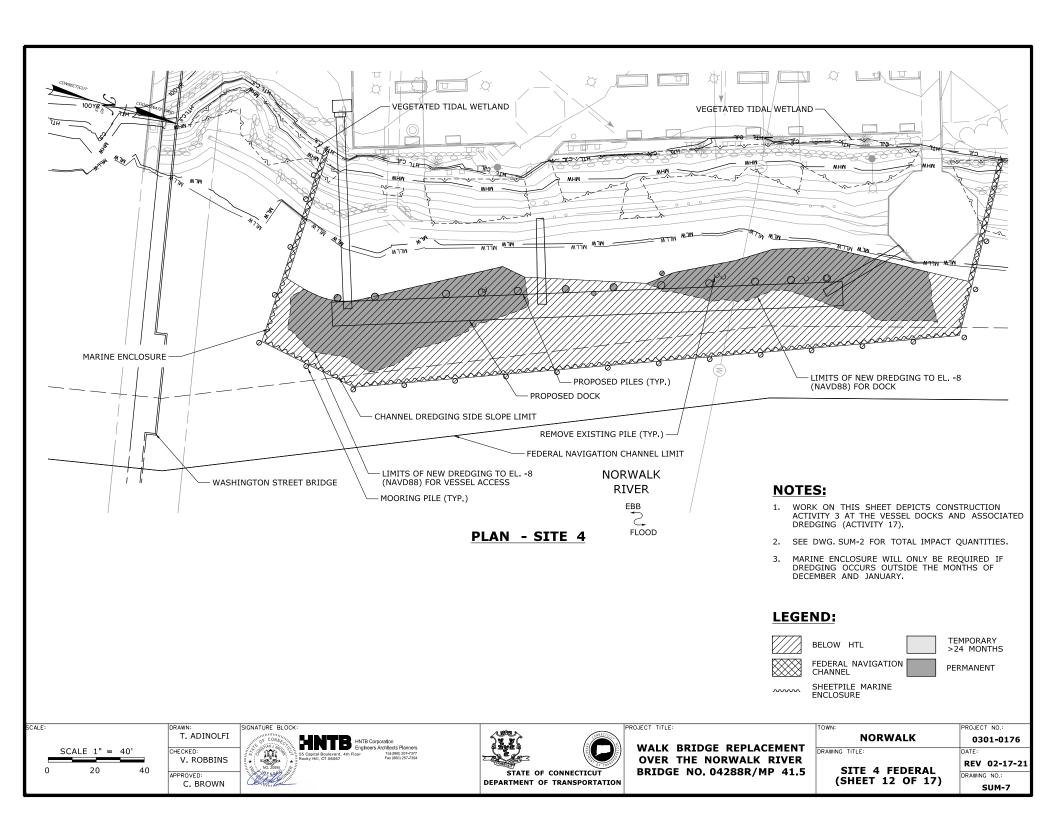
0301-0176

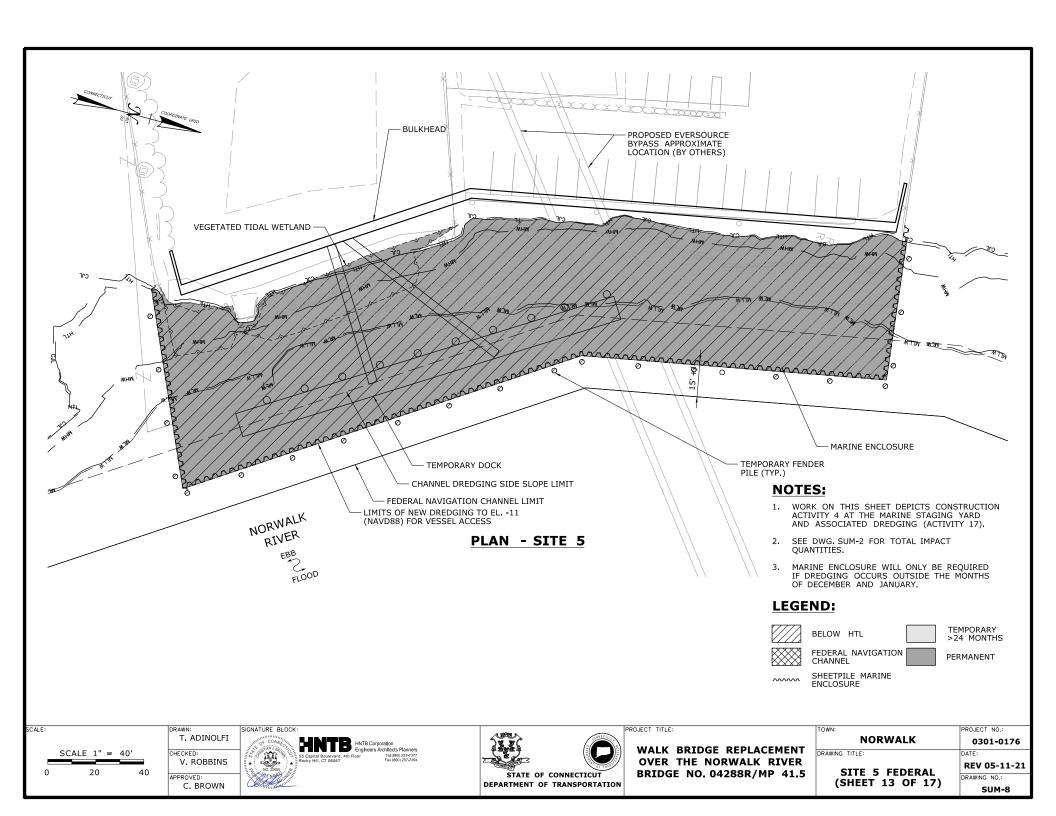
SITE 10 STATE (SHEET 10 OF 17)

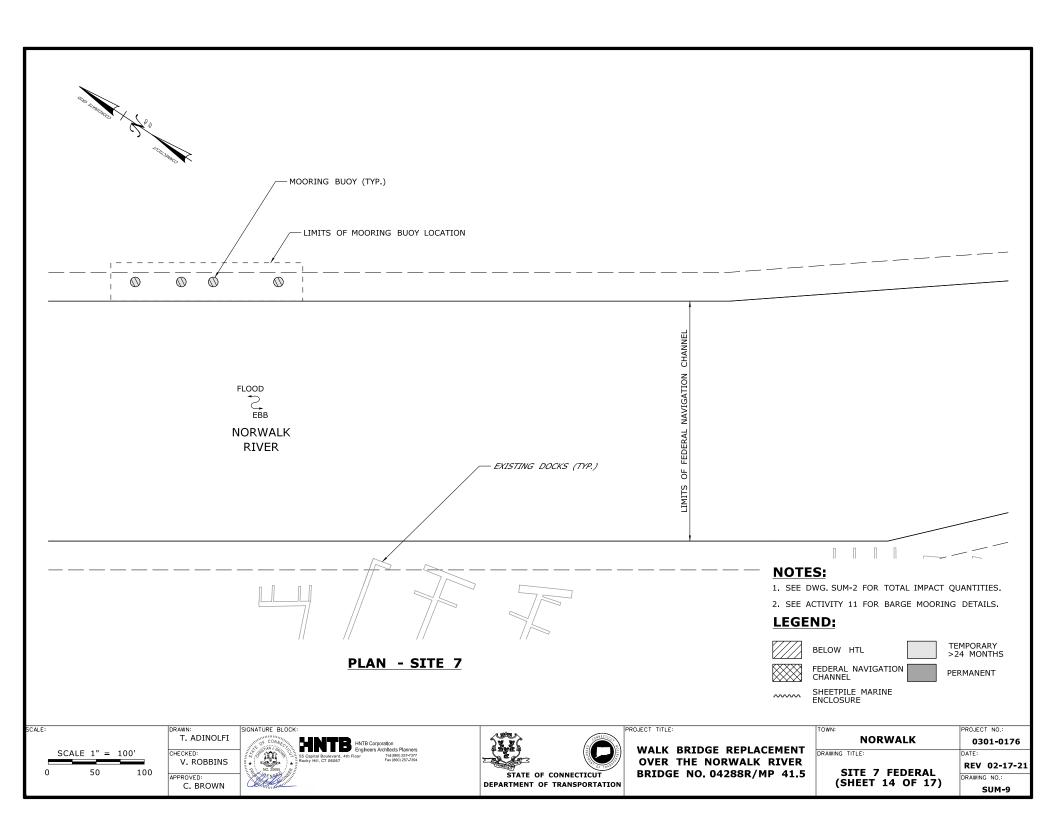
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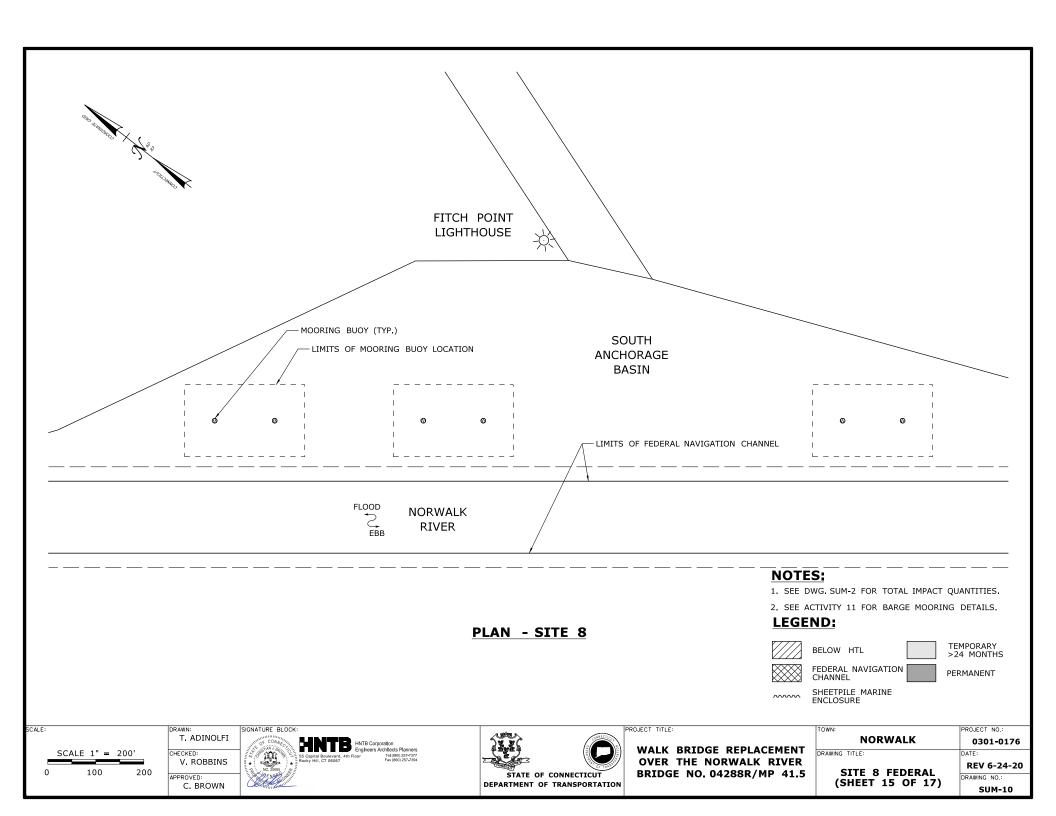
REV 6-24-20
DRAWING NO.:
SUM-5D



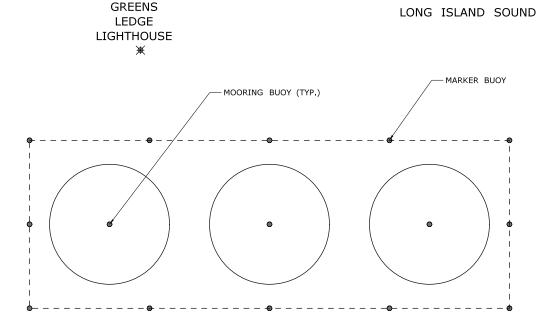












PLAN - SITE 9

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'' = 400'

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







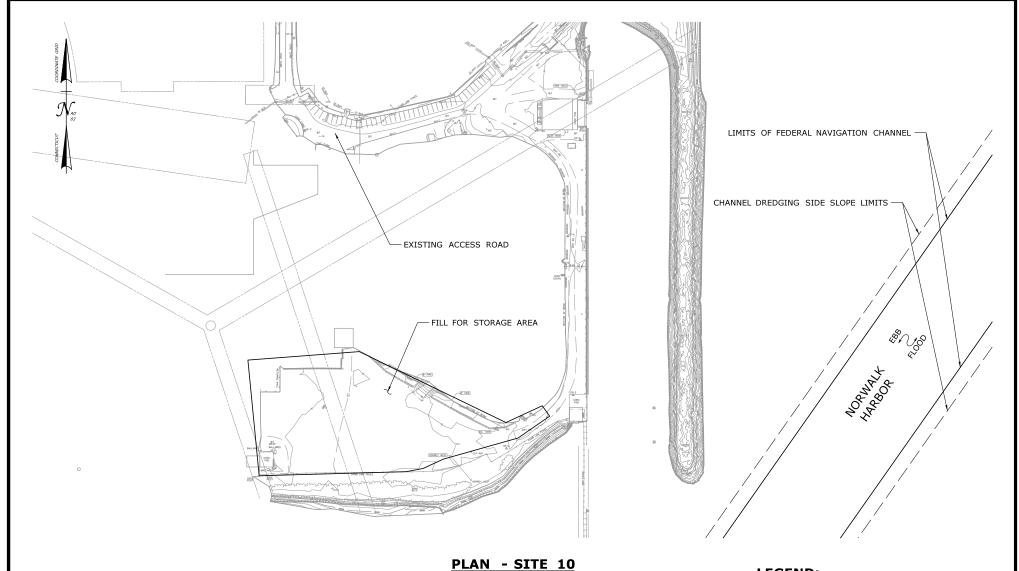
WALK BRIDGE REPLACEMENT **OVER THE NORWALK RIVER** BRIDGE NO. 04288R/MP 41.5

TOWN:	
	NORWALK
DRAWING	TITLE:

PROJECT NO.: 0301-0176

SITE 9 FEDERAL (SHEET 16 OF 17)

REV 02-17-21 DRAWING NO.: SUM-11



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

TEMPORARY >24 MONTHS PERMANENT

SHEETPILE MARINE ENCLOSURE

SCALE 1'' = 200'

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







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

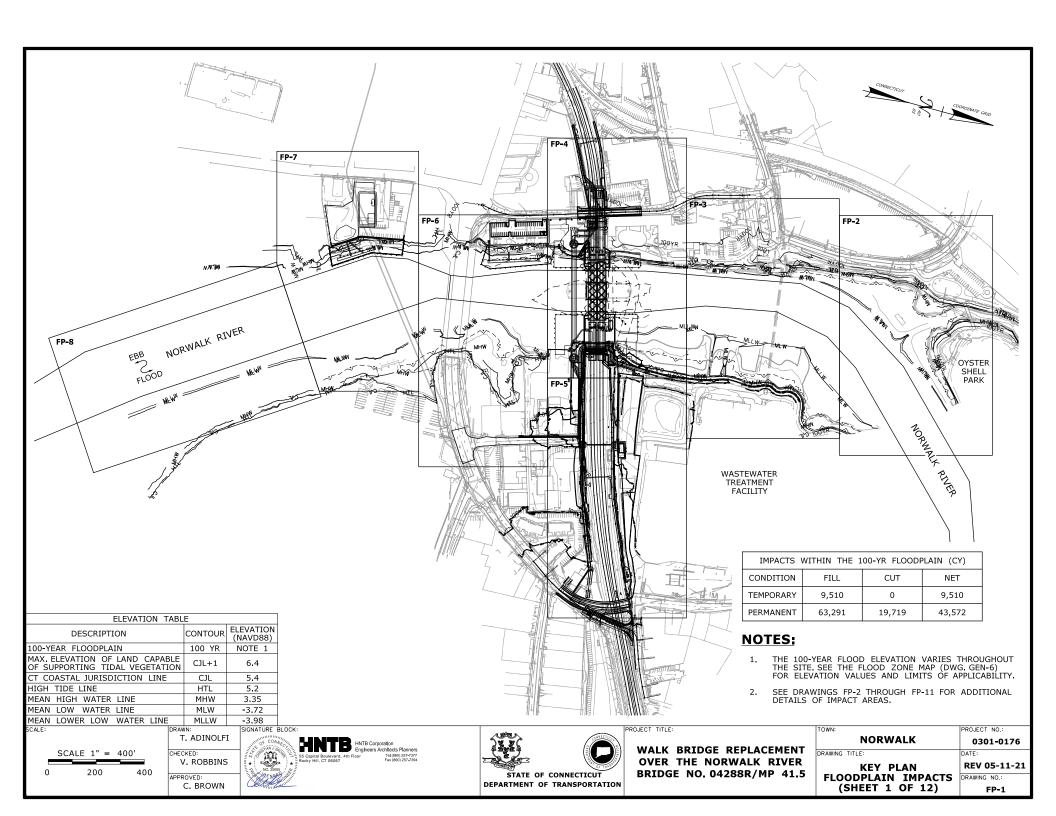
TOWN:	NORWALK	
DDAWNIC	TITLE.	•

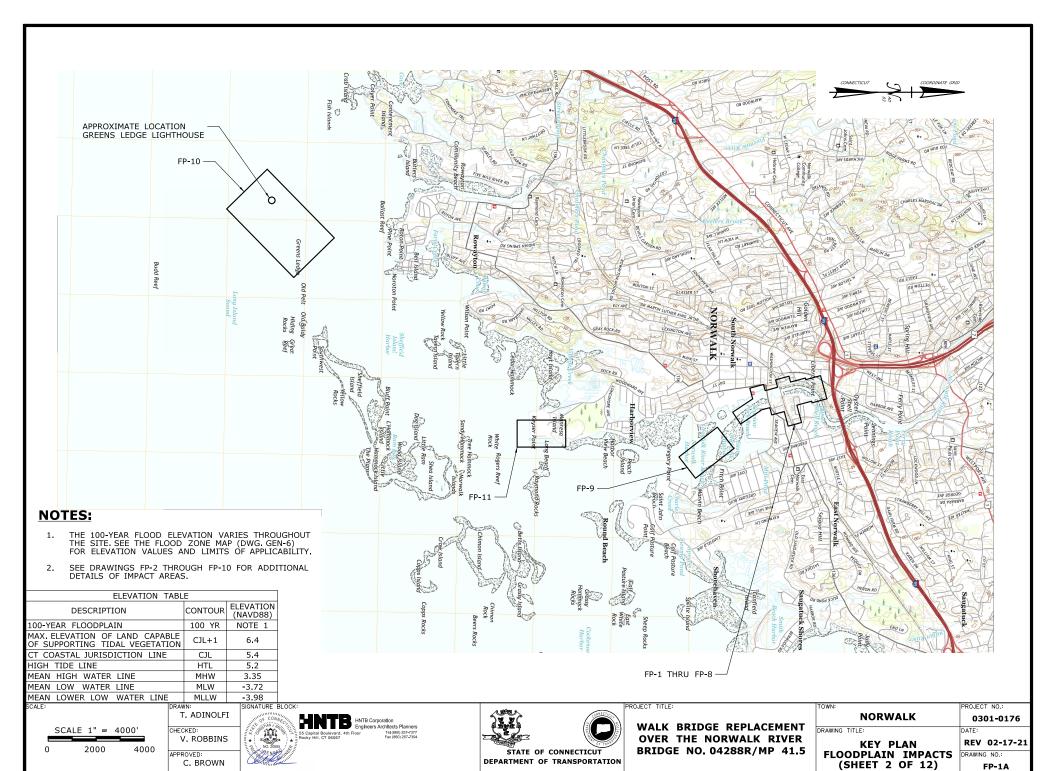
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SITE 10 FEDERAL (SHEET 17 OF 17)

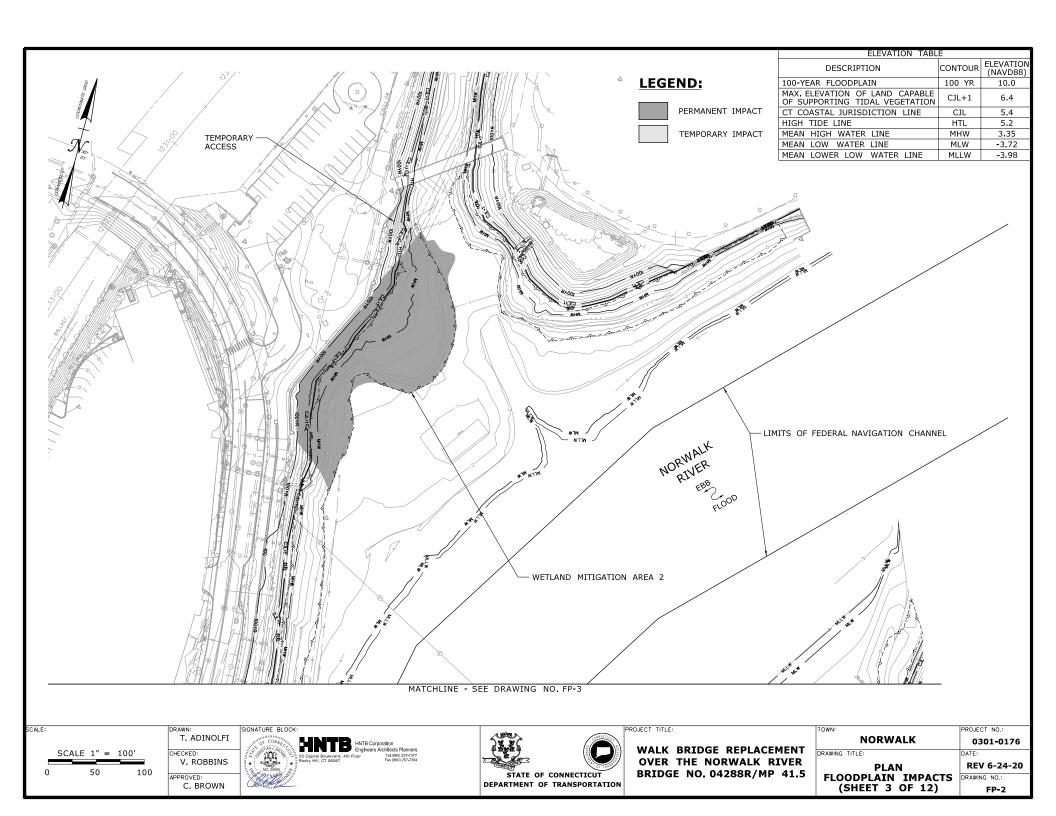
REV 6-24-20 SUM-12

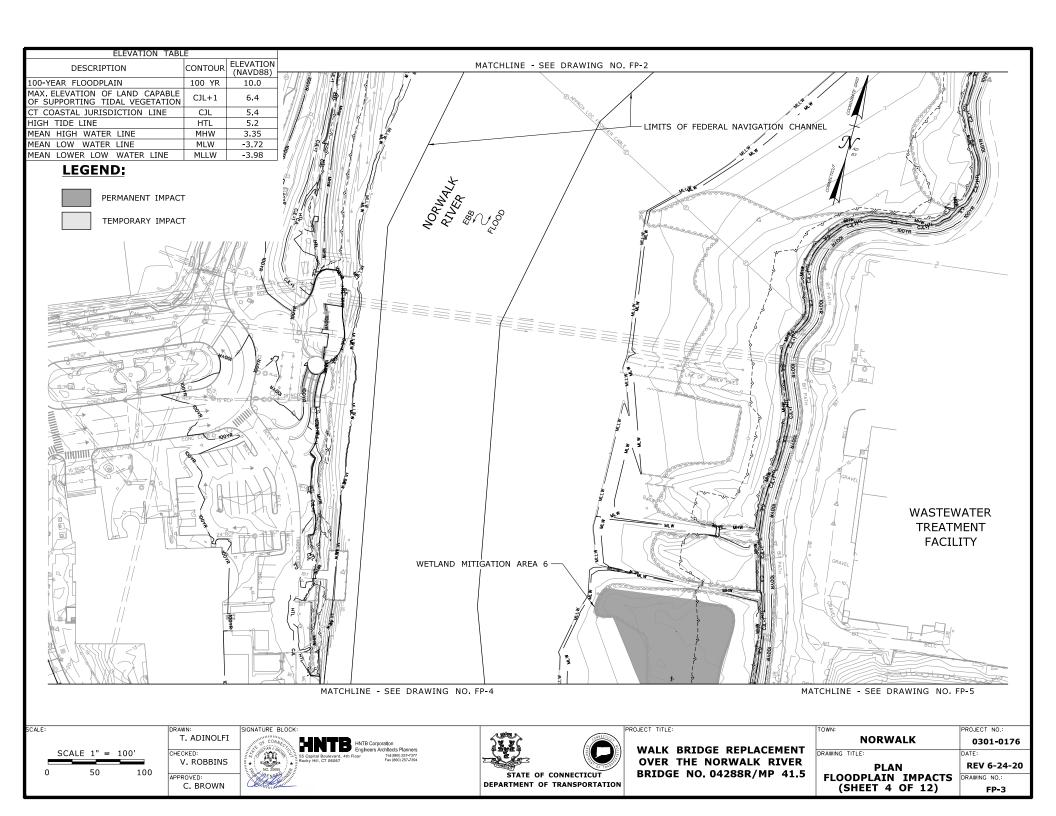
PROJECT NO.:

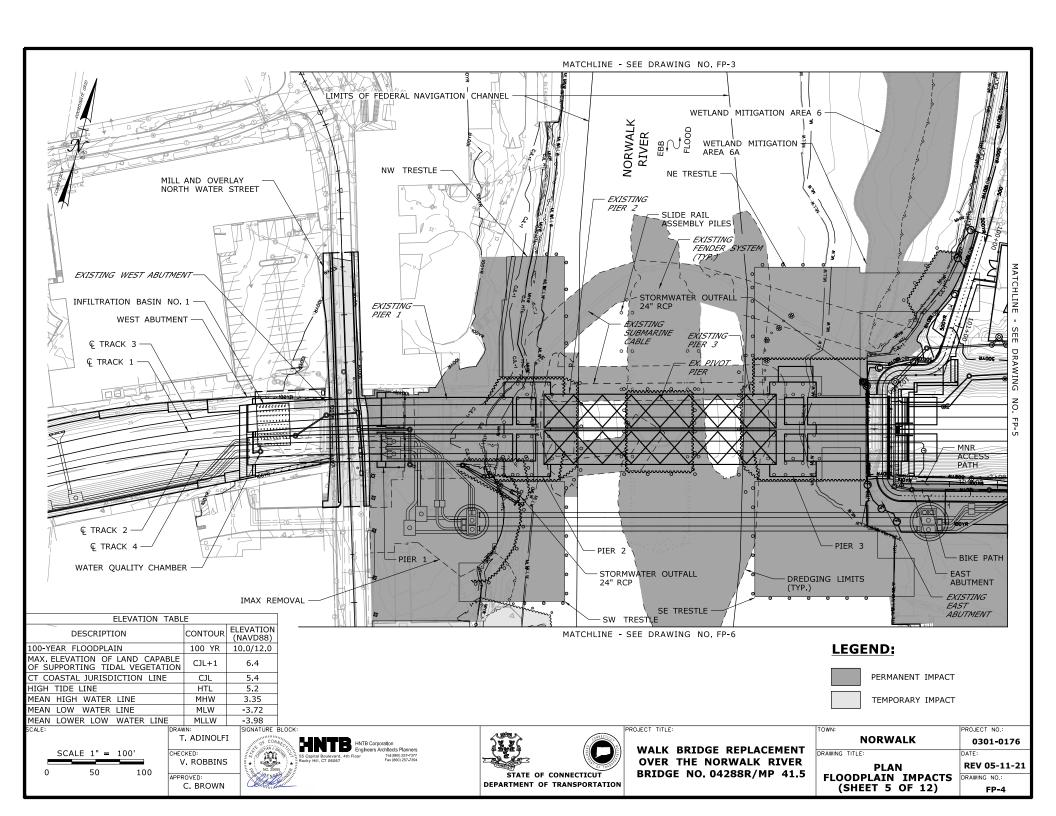


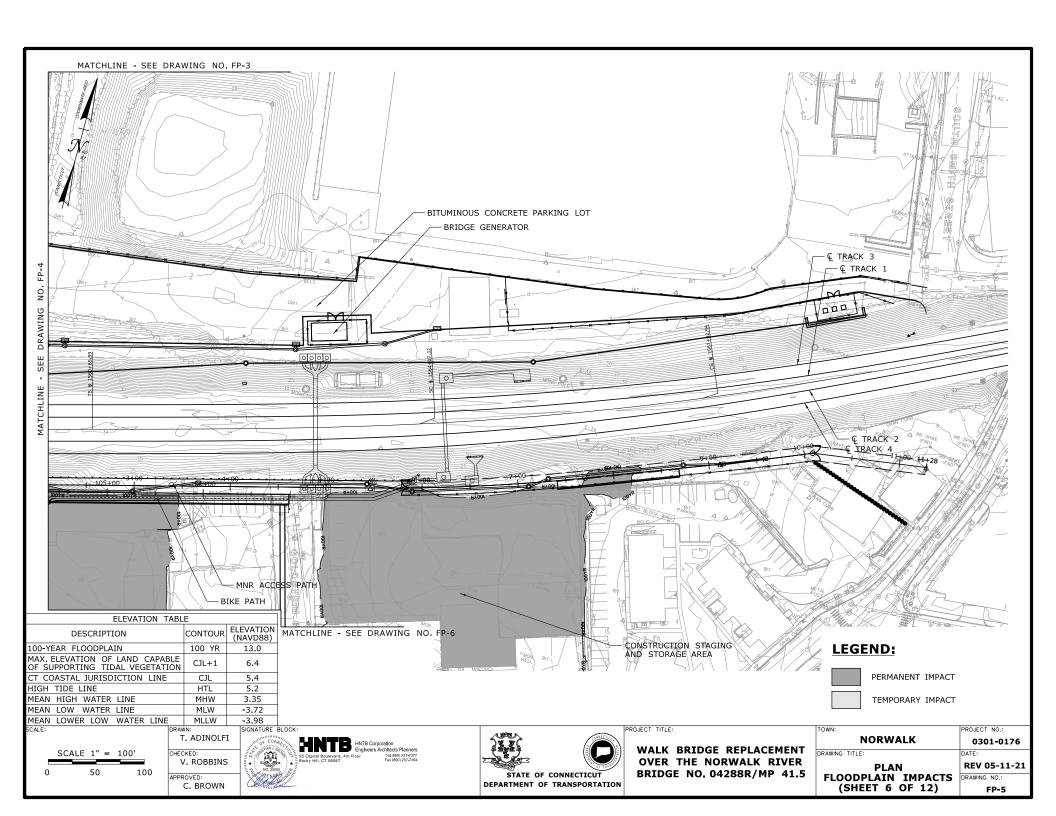


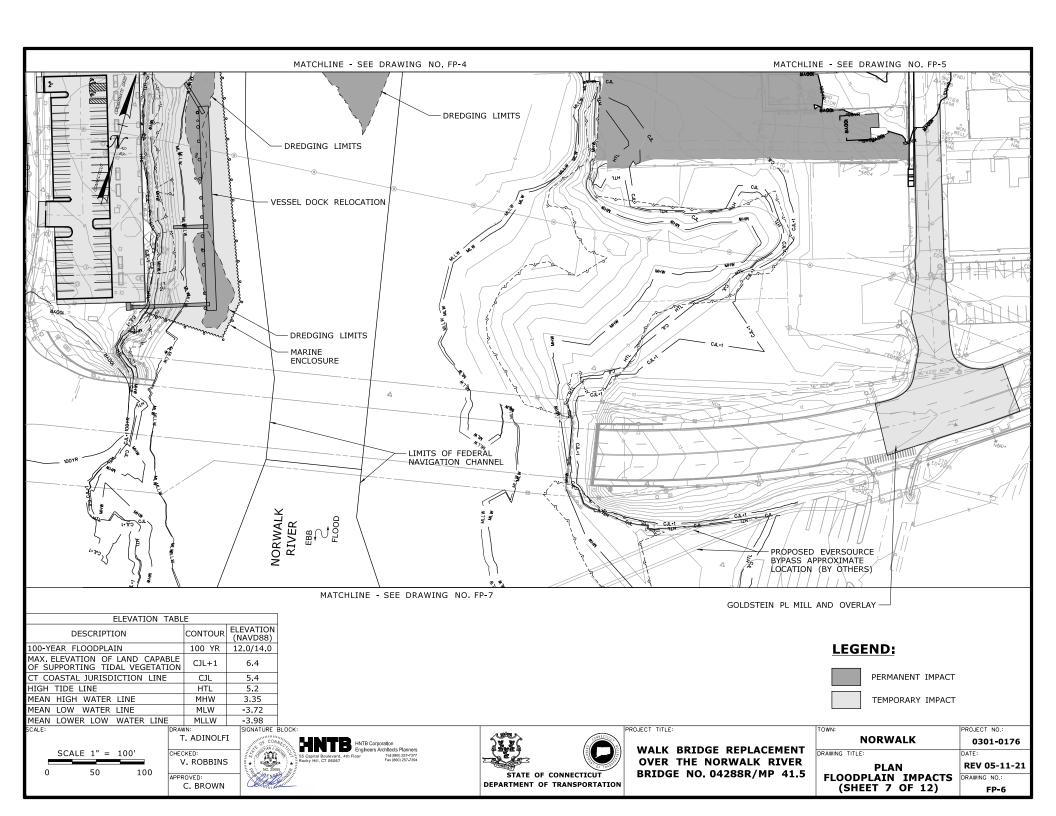
FP-1A

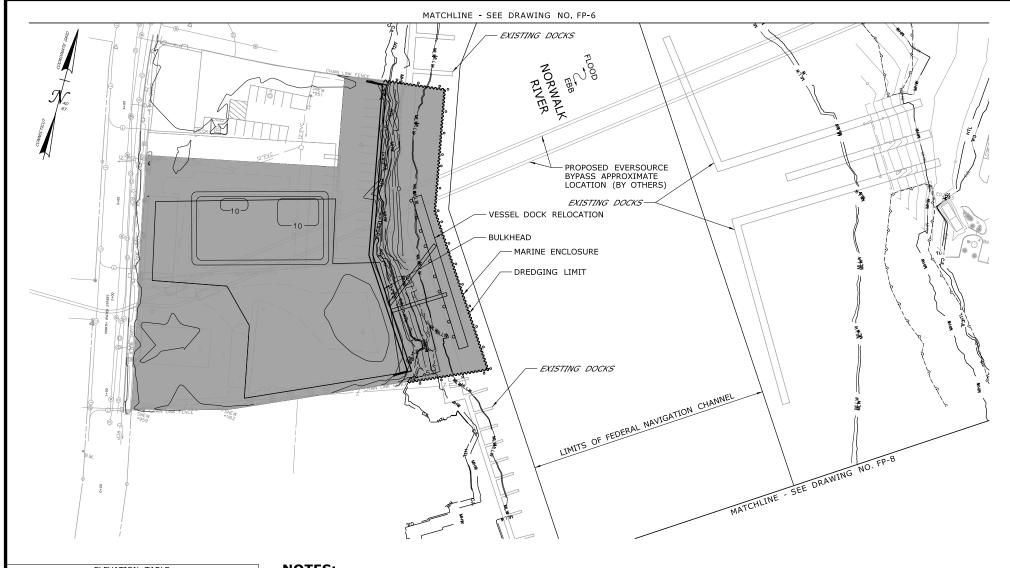












ELEVATION TABLE		
DESCRIPTION	CONTOUR	ELEVATION (NAVD88)
100-YEAR FLOODPLAIN	100 YR	14.0
MAX. ELEVATION OF LAND CAPABLE OF SUPPORTING TIDAL VEGETATION	CJL+1	6.4
CT COASTAL JURISDICTION LINE	CJL	5.4
HIGH TIDE LINE	HTL	5.2
MEAN HIGH WATER LINE	MHW	3.35
MEAN LOW WATER LINE	MLW	-3.72
MEAN LOWER LOW WATER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

SCALE 1'' = 100'

DRAWN:
T. ADINOLFI
CHECKED:
V. ROBBINS

C. BROWN

APPROVED:

NOTES:

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

	PERMANENT IMPACT
	TEMPORARY IMPACT

LEGEND:

SIGNATURE BLOCK:

HINTE Corporation

Engheers Architects Planners

55 Capital Boulevard, 4th Floor

Fax (860) 287-7374

Rocky Hill, CT 00067

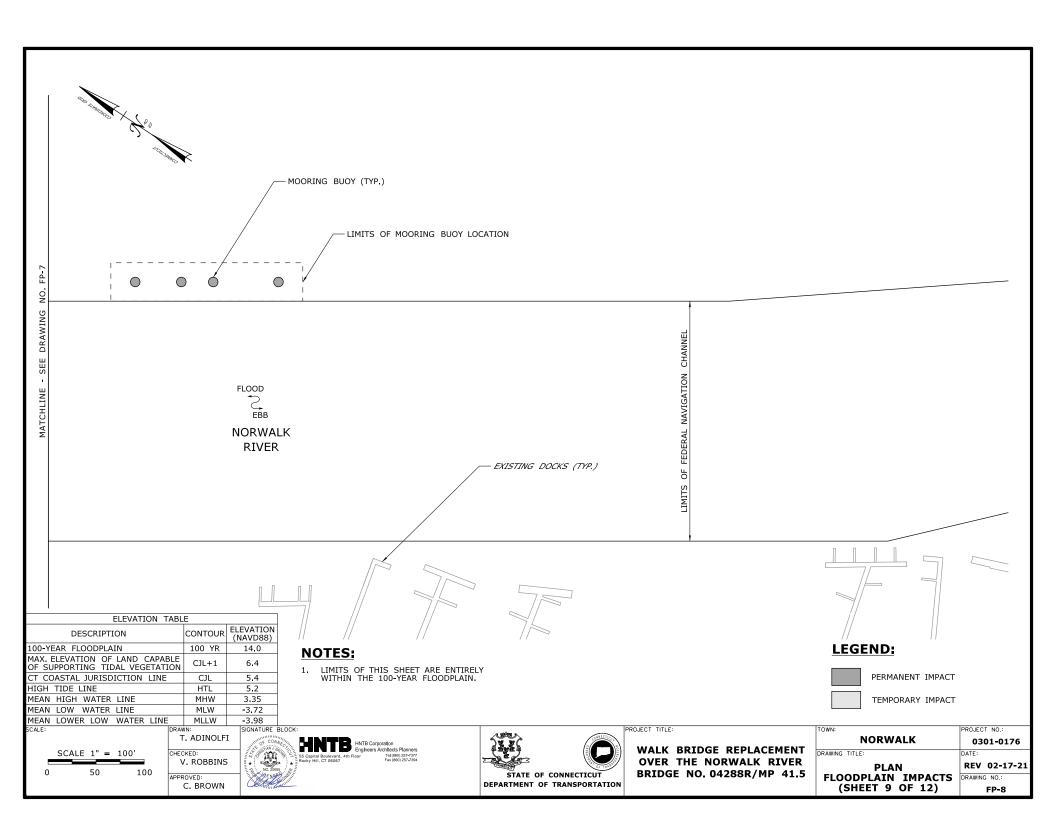
Fax (860) 287-7394

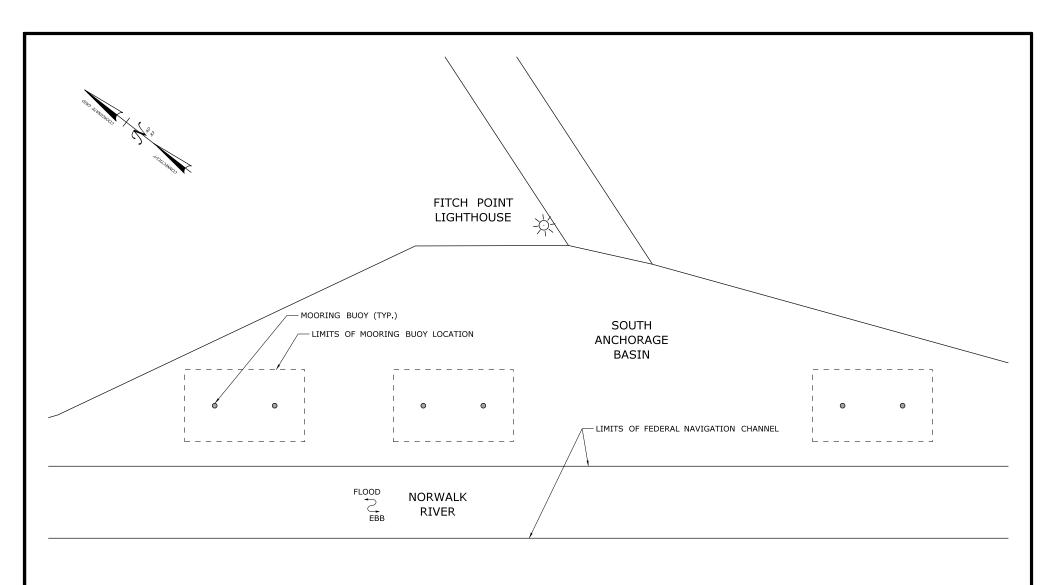


WALK BRIDGE REPLACEMENT OVER THE NORWALK RIVER BRIDGE NO. 04288R/MP 41.5

PROJECT TITLE:

(SHEET 8 OF 12)	FP-7
FLOODPLAIN IMPACTS	DRAWING NO.:
PLAN	REV 05-11-21
DRAWING TITLE:	DATE:
NORWALK	0301-0176
TOWN:	PROJECT NO.:





ELEVATION TABLE		
DESCRIPTION	CONTOUR	ELEVATION (NAVD88)
100-YEAR FLOODPLAIN	100 YR	14.0
MAX. ELEVATION OF LAND CAPABLE OF SUPPORTING TIDAL VEGETATION	CJL+1	6.4
CT COASTAL JURISDICTION LINE	CJL	5.4
HIGH TIDE LINE	HTL	5.2
MEAN HIGH WATER LINE	MHW	3.35
MEAN LOW WATER LINE	MLW	-3.72
MEAN LOWER LOW WATER LINE	MLLW	-3.98
SCALE: DRAV	VN:	SIGNATURE

NOTES:

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

LEGEND:

PERMANENT IMPACT TEMPORARY IMPACT

SCALE 1'' = 200'

T. ADINOLFI CHECKED: V. ROBBINS APPROVED:

C. BROWN

SIGNATURE BLOCK:



WALK BRIDGE REPLACEMENT OVER THE NORWALK RIVER BRIDGE NO. 04288R/MP 41.

_	NO
T	DRAWING TITLE:
₹	
5	FLOODPLA

TOWN: RWALK 0301-0176 PLAN
LOODPLAIN IMPACTS
(SHEET 10 OF 12)

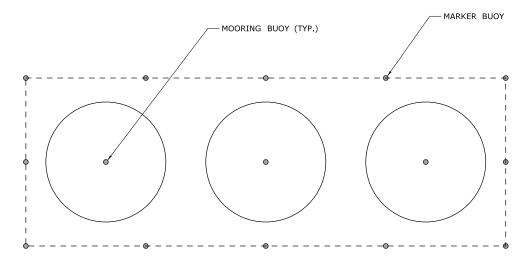
REV 6-24
DRAWING NO.:
FP-9 **REV 6-24-20** FP-9

PROJECT NO.:



GREENS LEDGE LIGHTHOUSE ₩

LONG ISLAND SOUND



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

SCALE 1'' = 400'

T. ADINOLFI V. ROBBINS

C. BROWN

APPROVED:

NOTES:

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

LEGEND:



WALK BRIDGE REPLACEMENT DRAWING TITLE:

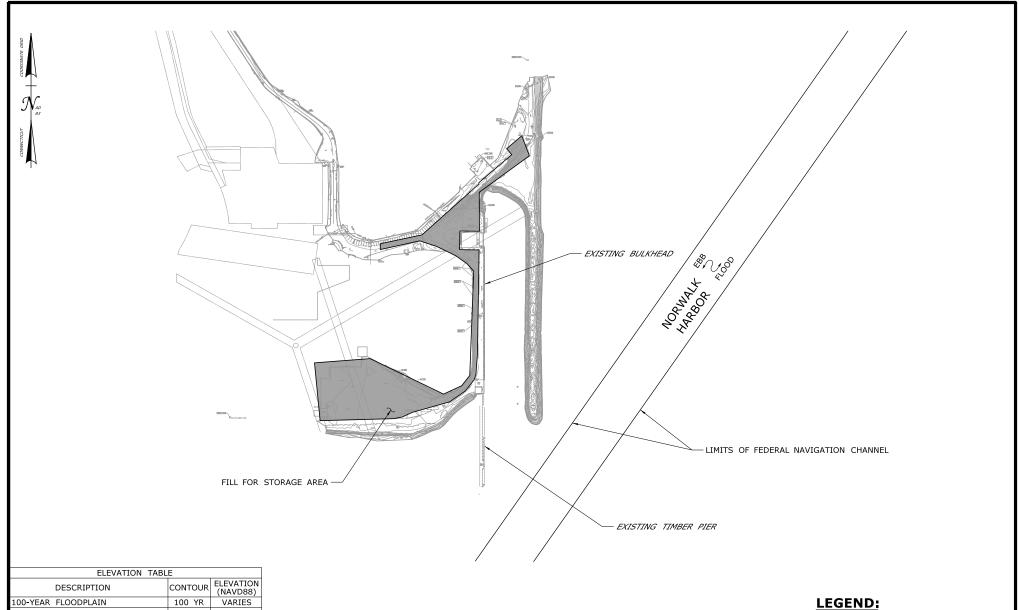
PROJECT NO.: NORWALK 0301-0176

FP-10

PLAN REV 02-1
FLOODPLAIN IMPACTS
(SHEET 11 OF 12)

PRAWING NO.:
FP-10 REV 02-17-21

OVER THE NORWALK RIVER BRIDGE NO. 04288R/MP 41.5 STATE OF CONNECTICUT DEPARTMENT OF TRANSPORTATION



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

SCALE 1'' = 400'

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



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

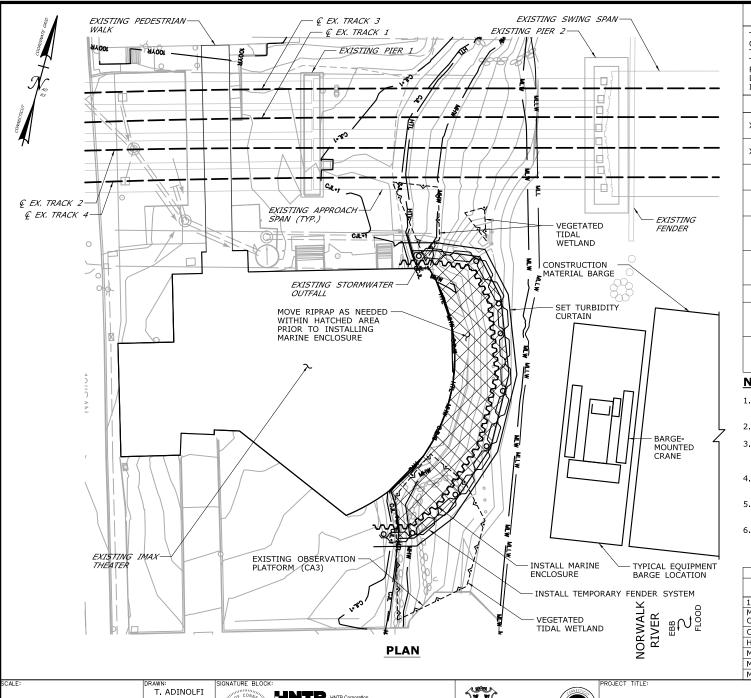
PLAN	REV 6-24-20
DRAWING TITLE:	DATE:
NORWALK	0301-0176
TOWN:	PROJECT NO.:

PERMANENT IMPACT TEMPORARY IMPACT

FLOODPLAIN IMPACTS
(SHEET 12 OF 12)

DRAWING NO.:
FP-1:

FP-11



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 ELEVATION 8,0,

REMOVE MARINE ENCLOSURE AND TEMPORARY FENDER SYSTEM.

SET TURBIDITY CURTAIN AND INSTALL TEMPORARY SHEETPILES AND 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 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:

- THIS ACTIVITY IS CONTAINED ENTIRELY WITHIN THE 100-YR FLOODPLAIN.
- 2. VERTICAL DATUM IS NAVD 88.
- MARINE ENCLOSURE WILL BE INSTALLED SO THAT THE TOP WILL BE AT OR ABOVE ELEV. 6.2, 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.
- 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)
100-YEAR FLOODPLAIN	100 YR	12.0
MAX. ELEVATION OF LAND CAPABLE OF SUPPORTING TIDAL VEGETATION	CJL+1	6.4
CT COASTAL JURISDICTION LINE	CJL	5.4
HIGH TIDE LINE	HTL	5.2
MEAN HIGH WATER LINE	MHW	3.35
MEAN LOW WATER LINE	MLW	-3.72
MEAN LOWER LOW WATER LINE	MLLW	-3.98
TOWN: PROJECT NO.:		

SCALE IN FEET SCALE 1"=40'

CHECKED: V. ROBBINS APPROVED

C. BROWN

HNTB Corporation



STATE OF CONNECTICUT DEPARTMENT OF TRANSPORTATION

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

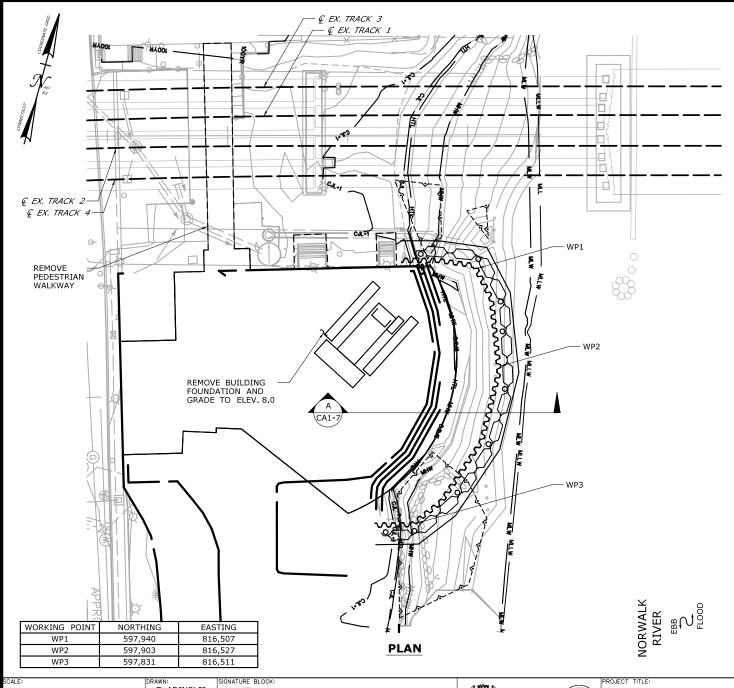
NORWALK

DRAWING TITLE: ACTIVITY 1

REV 02-17-21 DRAWING NO.: CA1-1

0301-0176

IMAX REMOVAL (SHEET 1 OF 7)



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 ELEVATION 8.0.

REMOVE MARINE ENCLOSURE AND TEMPORARY FENDER SYSTEM.

SET TURBIDITY CURTAIN AND INSTALL TEMPORARY SHEETPILES AND 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 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.
- 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

ELEVATION TABLE		
DESCRIPTION	CONTOUR	ELEVATION (NAVD88)
100-YEAR FLOODPLAIN	100 YR	12.0
MAX. ELEVATION OF LAND CAPABLE OF SUPPORTING TIDAL VEGETATION	CJL+1	6.4
CT COASTAL JURISDICTION LINE	CJL	5.4
HIGH TIDE LINE	HTL	5.2
MEAN HIGH WATER LINE	MHW	3.35
MEAN LOW WATER LINE	MLW	-3.72
MEAN LOWER LOW WATER LINE	MLLW	-3.98
TOWN:	PROJE	CT NO.:

SCALE IN FEET SCALE 1"=40'

T. ADINOLFI CHECKED: V. ROBBINS APPROVED:

C. BROWN

HNTB Corporation



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

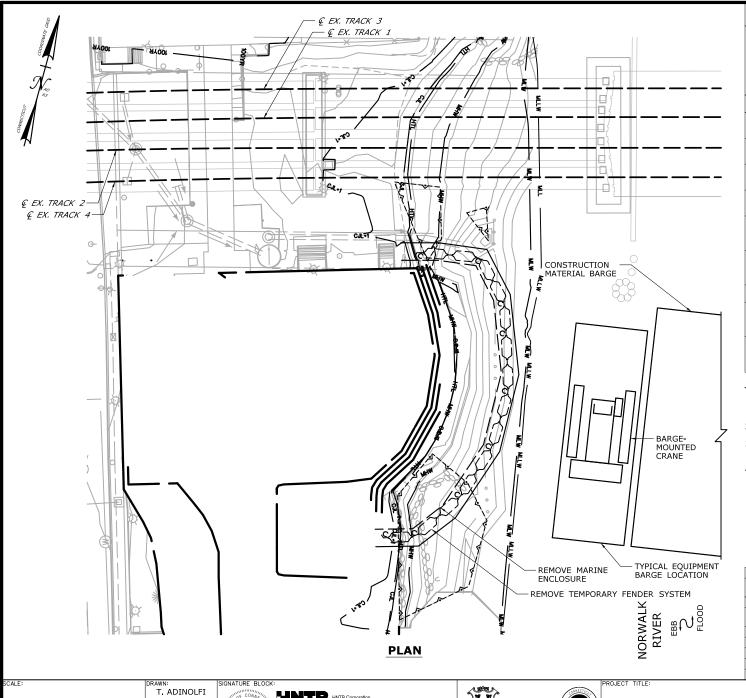
NORWALK

DRAWING TITLE:

0301-0176

ACTIVITY 1 IMAX REMOVAL (SHEET 2 OF 7)

REV 02-17-21 DRAWING NO.: CA1-2



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 ELEVATION 8.0.

REMOVE MARINE ENCLOSURE AND TEMPORARY FENDER Χ SYSTEM.

SET TURBIDITY CURTAIN AND INSTALL TEMPORARY SHEETPILES AND 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 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:

- THIS ACTIVITY IS CONTAINED ENTIRELY WITHIN THE 100-YR FLOODPLAIN.
- 2. VERTICAL DATUM IS NAVD 88.
- 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)
100-YEAR FLOODPLAIN	100 YR	12.0
MAX. ELEVATION OF LAND CAPABLE OF SUPPORTING TIDAL VEGETATION	CJL+1	6.4
CT COASTAL JURISDICTION LINE	CJL	5.4
HIGH TIDE LINE	HTL	5.2
MEAN HIGH WATER LINE	MHW	3.35
MEAN LOW WATER LINE	MLW	-3.72
MEAN LOWER LOW WATER LINE	MLLW	-3.98
TOWN:	PROJE	CT NO.:

SCALE IN FEET SCALE 1"=40'

CHECKED: V. ROBBINS APPROVED:

C. BROWN

HNTB Corporation



STATE OF CONNECTICUT

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

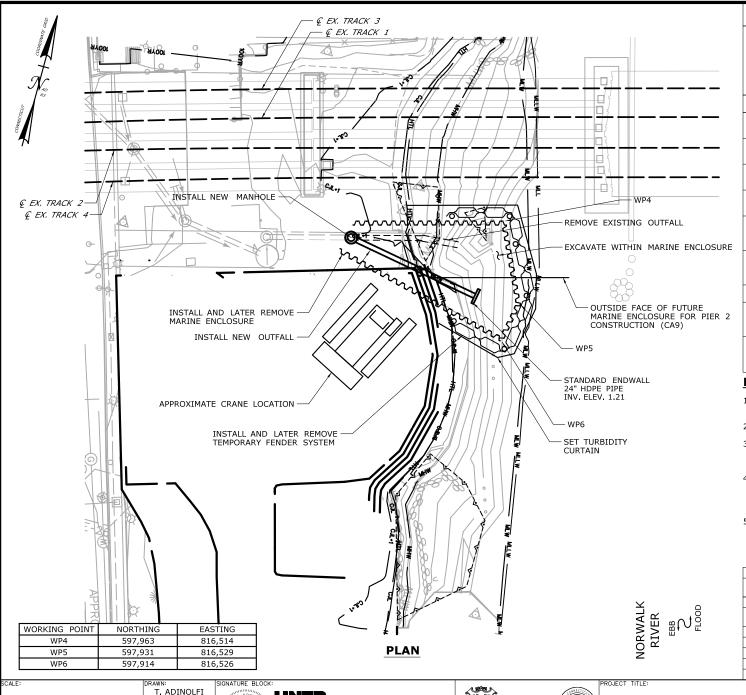
NORWALK

DRAWING TITLE:

0301-0176

ACTIVITY 1 IMAX REMOVAL (SHEET 3 OF 7)

REV 02-17-21 DRAWING NO.: CA1-3



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 ELEVATION 8.0.

REMOVE MARINE ENCLOSURE AND TEMPORARY FENDER SYSTEM.

- SET TURBIDITY CURTAIN AND INSTALL TEMPORARY SHEETPILES AND 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 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:

- THIS ACTIVITY IS CONTAINED ENTIRELY WITHIN THE 100-YR FLOODPLAIN.
- 2. VERTICAL DATUM IS NAVD 88.
- MARINE ENCLOSURE WILL BE INSTALLED SO THAT THE TOP WILL BE AT OR ABOVE ELEV. 6.2, 1 FOOT ABOVE THE HIGH TIDE LINE.
- 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 TAB	BLE	
DESCRIPTION	CONTOUR	ELEVATION (NAVD88)
100-YEAR FLOODPLAIN	100 YR	12.0
MAX. ELEVATION OF LAND CAPABLE OF SUPPORTING TIDAL VEGETATION	CJL+1	6.4
CT COASTAL JURISDICTION LINE	CJL	5.4
HIGH TIDE LINE	HTL	5.2
MEAN HIGH WATER LINE	MHW	3.35
MEAN LOW WATER LINE	MLW	-3.72
MEAN LOWER LOW WATER LINE	MLLW	-3.98
TOWN: PROJECT NO.:		

SCALE IN FEET SCALE 1"=40'

CHECKED: V. ROBBINS APPROVED:

C. BROWN



DEPARTMENT OF TRANSPORTATION

STATE OF CONNECTICUT

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

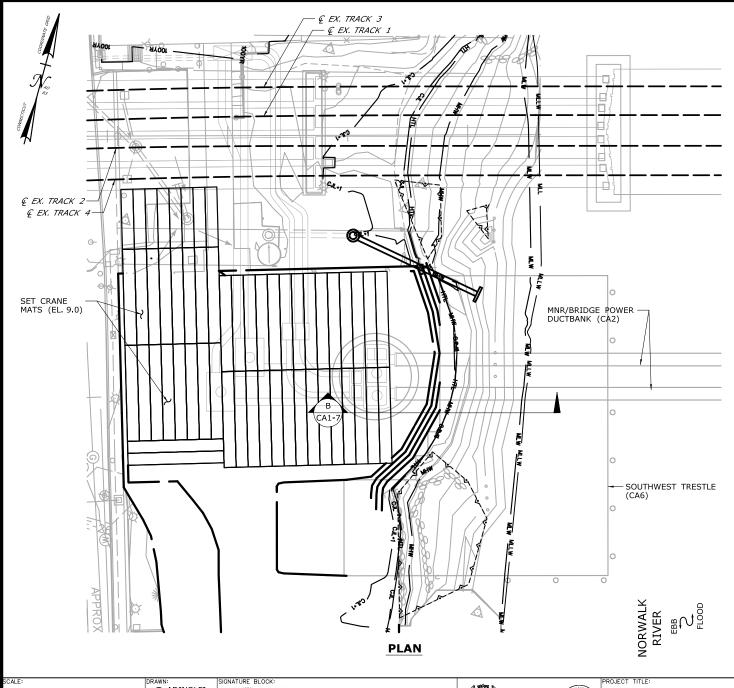
NORWALK

DRAWING TITLE:

0301-0176

ACTIVITY 1 IMAX REMOVAL (SHEET 4 OF 7)

REV 02-17-21 DRAWING NO.: CA1-4



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 ELEVATION 8.0.

REMOVE MARINE ENCLOSURE AND TEMPORARY FENDER SYSTEM.

SET TURBIDITY CURTAIN AND INSTALL TEMPORARY SHEETPILES AND 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 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.

ELEVATION TAB	ILE	
DESCRIPTION	CONTOUR	ELEVATION (NAVD88)
100-YEAR FLOODPLAIN	100 YR	12.0
MAX. ELEVATION OF LAND CAPABLE OF SUPPORTING TIDAL VEGETATION	CJL+1	6.4
CT COASTAL JURISDICTION LINE	CJL	5.4
HIGH TIDE LINE	HTL	5.2
MEAN HIGH WATER LINE	MHW	3.35
MEAN LOW WATER LINE	MLW	-3.72
MEAN LOWER LOW WATER LINE	MLLW	-3.98
TOWN:	PROJE	CT NO.:

SCALE IN FEET

0 20 4

SCALE 1"=40'

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

C. BROWN

SIGNATURE BLOCK:

HATTB Corporation

Engheers Architects Planner

S. Capital Boulevard, 44n Floor

Tel (800) 257-78

No. 2009



DEPARTMENT OF TRANSPORTATION

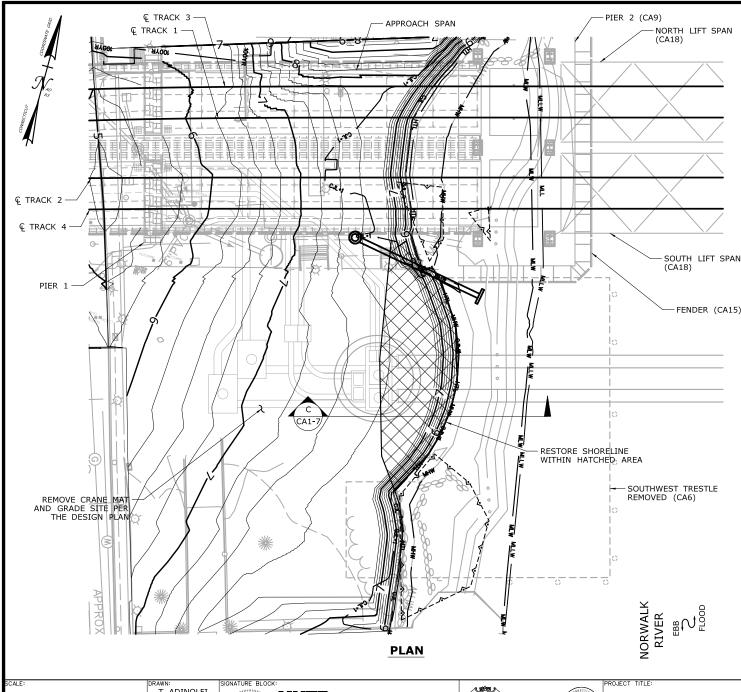
WALK BRIDGE REPLACEMENT OVER THE NORWALK RIVER BRIDGE NO. 04288R/MP 41.5 NORWALK

DRAWING TITLE:

0301-0176

ACTIVITY 1
IMAX REMOVAL
(SHEET 5 OF 7)

REV 05-11-21
DRAWING NO.:
CA1-5



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 ELEVATION 8.0.

REMOVE MARINE ENCLOSURE AND TEMPORARY FENDER SYSTEM.

SET TURBIDITY CURTAIN AND INSTALL TEMPORARY SHEETPILES AND 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 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:

- THIS ACTIVITY IS CONTAINED ENTIRELY WITHIN THE 100-YR FLOODPLAIN.
- 2. VERTICAL DATUM IS NAVD 88.
- 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)
100-YEAR FLOODPLAIN	100 YR	12.0
MAX. ELEVATION OF LAND CAPABLE OF SUPPORTING TIDAL VEGETATION	CJL+1	6.4
CT COASTAL JURISDICTION LINE	CJL	5.4
HIGH TIDE LINE	HTL	5.2
MEAN HIGH WATER LINE	MHW	3.35
MEAN LOW WATER LINE	MLW	-3.72
MEAN LOWER LOW WATER LINE	MLLW	-3.98
TOWN:	PROJE	CT NO.:

SCALE IN FEET SCALE 1"=40'

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

HNTB Corporation



STATE OF CONNECTICUT DEPARTMENT OF TRANSPORTATION

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

NORWALK

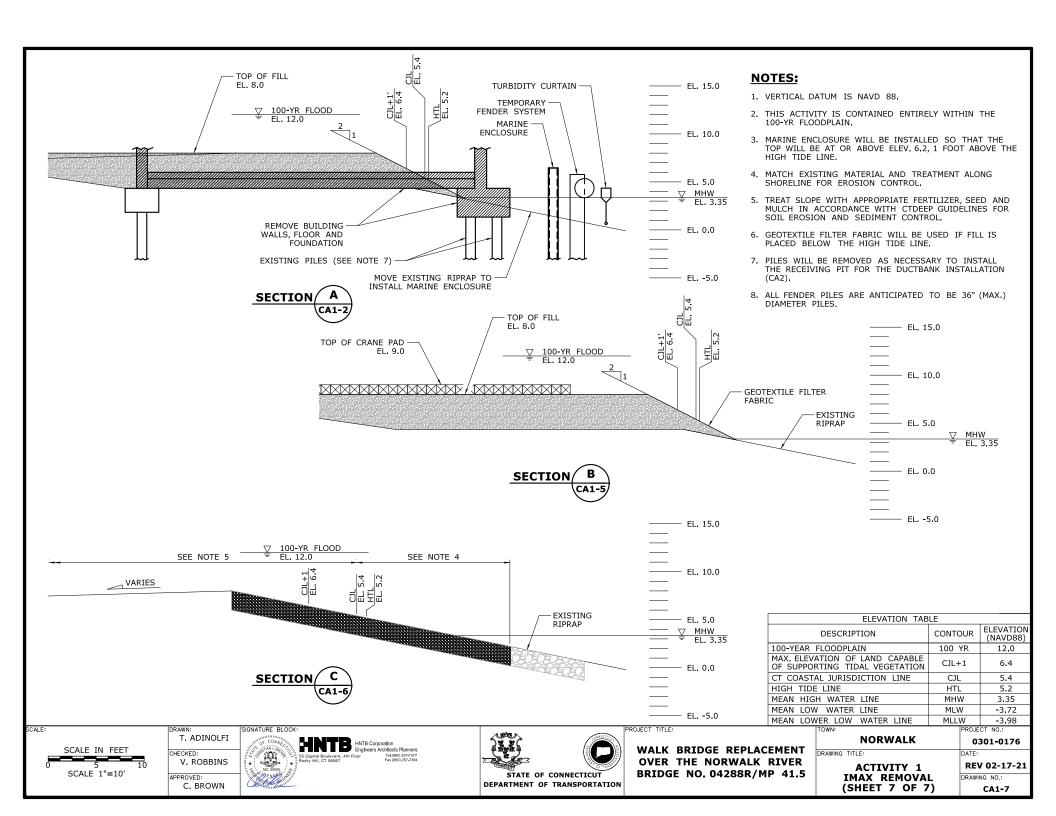
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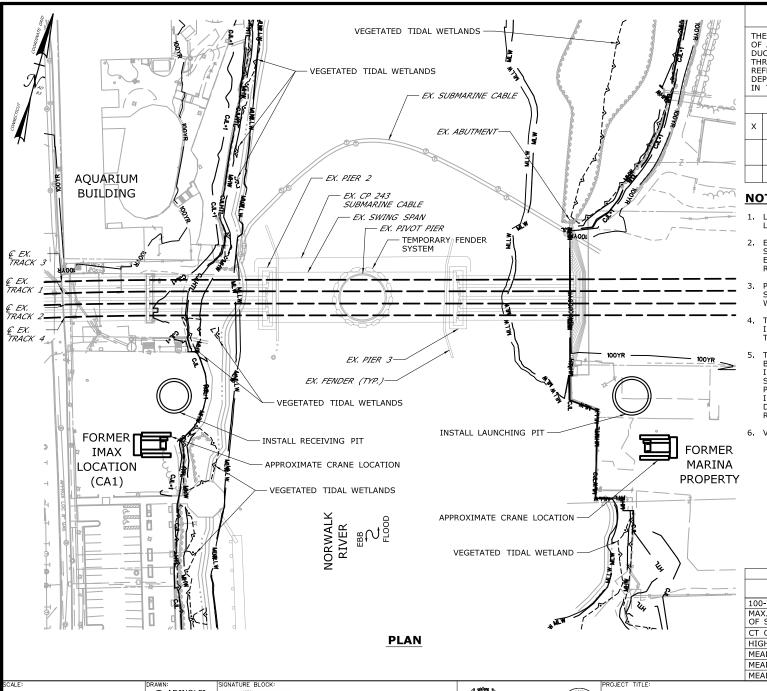
0301-0176

ACTIVITY 1 IMAX REMOVAL (SHEET 6 OF 7)

REV 05-11-21 DRAWING NO.:

CA1-6





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.

FILL PITS AND RESTORE SITE.

NOTES:

- 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
- PITS WILL BE FORMED BY 36" (MAX) DIAMETER SECANT PILES. THE SIZE AND SHAPE OF THE PITS WILL BE DETERMINED WITH FINAL DESIGN.
- TOP OF LAUNCHING AND RECIEVING PIT WILL BE INSTALLED TO ELEV. 6.2 (MIN.) 1 FOOT ABOVE HIGH TIDE LINE.
- 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.

ELEVATION TAB	LE	
DESCRIPTION	CONTOUR	ELEVATION (NAVD88)
100-YEAR FLOODPLAIN	100 YR	12.0
MAX. ELEVATION OF LAND CAPABLE OF SUPPORTING TIDAL VEGETATION	CJL+1	6.4
CT COASTAL JURISDICTION LINE	CJL	5.4
HIGH TIDE LINE	HTL	5.2
MEAN HIGH WATER LINE	MHW	3.35
MEAN LOW WATER LINE	MLW	-3.72
MEAN LOWER LOW WATER LINE	MLLW	-3.98
TOWN:	PROJE	CT NO.:

SCALE IN FEET SCALE 1"=100'

T. ADINOLFI CHECKED: V. ROBBINS APPROVED:

C. BROWN

HNTB Corporation



STATE OF CONNECTICUT DEPARTMENT OF TRANSPORTATION

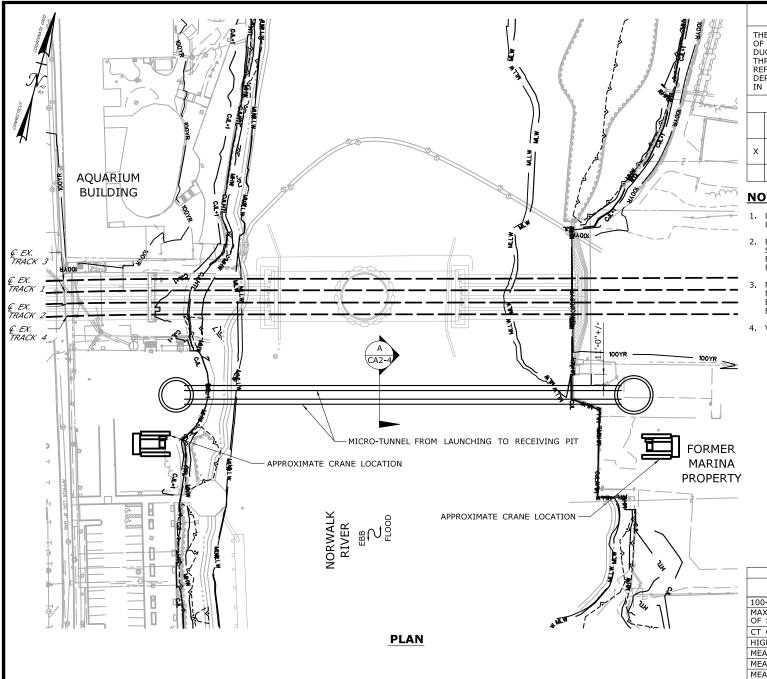
WALK BRIDGE REPLACEMENT **OVER THE NORWALK RIVER** BRIDGE NO. 04288R/MP 41.5

NORWALK DRAWING TITLE:

0301-0176 REV 02-17-21 DRAWING NO.:

ACTIVITY 2 DUCTBANK INSTALLATION (1 OF 4)

CA2-1



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.
- 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.

	ELEVATION TAB	LE	
	DESCRIPTION	CONTOUR	ELEVATION (NAVD88)
	100-YEAR FLOODPLAIN	100 YR	12.0
	MAX. ELEVATION OF LAND CAPABLE OF SUPPORTING TIDAL VEGETATION	CJL+1	6.4
	CT COASTAL JURISDICTION LINE	CJL	5.4
	HIGH TIDE LINE	HTL	5.2
	MEAN HIGH WATER LINE	MHW	3.35
	MEAN LOW WATER LINE	MLW	-3.72
	MEAN LOWER LOW WATER LINE	MLLW	-3.98
Τ	TOWN:	PROJE	CT NO.:

SCALE IN FEET

50 50 100

SCALE 1"=100'

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

C. BROWN

SIGNATURE BLOCK:

SIGNATURE BL

HNTE Corporation
Engineers Architects Planners
25 Capital Boulevard. 4th Floor 14 (806) 307-7794
Ready Hell, Cri 20007 Francisch (2000) 207-7794



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

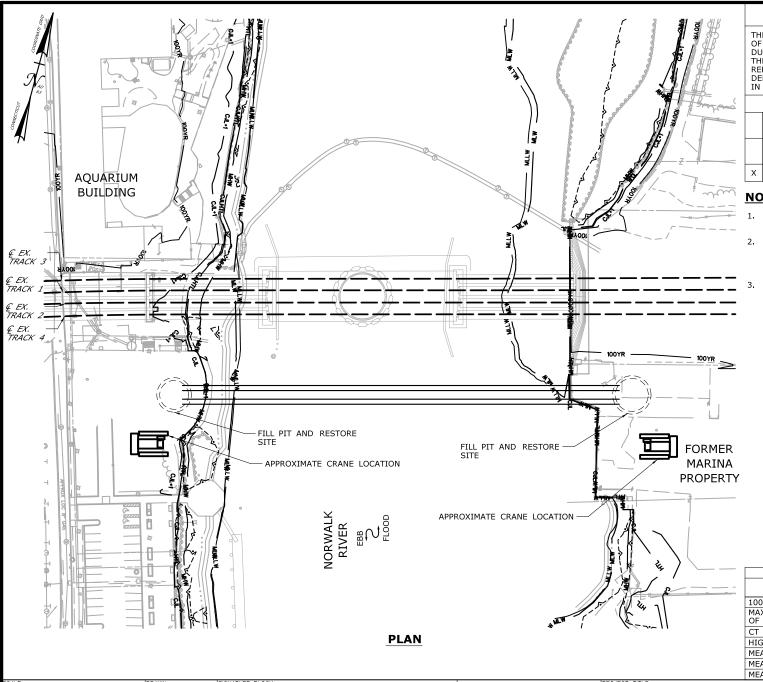
ACTIVITY 2 DUCTBANK INSTALLATION (2 OF 4)

REV 02-17-21

DRAWING NO.:

CA2-2

0301-0176



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.

FILL PITS AND RESTORE SITE.

NOTES:

- 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
- 3. VERTICAL DATUM IS NAVD 88.

ELEVATION TABLE		
DESCRIPTION	CONTOUR	ELEVATION (NAVD88)
100-YEAR FLOODPLAIN	100 YR	12.0
MAX. ELEVATION OF LAND CAPABLE OF SUPPORTING TIDAL VEGETATION	CJL+1	6.4
CT COASTAL JURISDICTION LINE	CJL	5.4
HIGH TIDE LINE	HTL	5.2
MEAN HIGH WATER LINE	MHW	3.35
MEAN LOW WATER LINE	MLW	-3.72
MEAN LOWER LOW WATER LINE	MLLW	-3.98
TOWN: PROJECT NO.:		CT NO.:

SCALE IN FEET SCALE 1"=100'

T. ADINOLFI CHECKED: V. ROBBINS APPROVED:

C. BROWN

HNTB Corporation



DEPARTMENT OF TRANSPORTATION

STATE OF CONNECTICUT

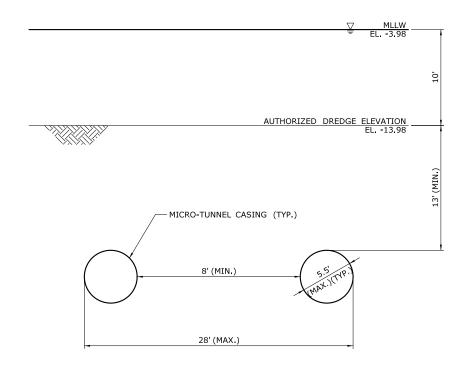
WALK BRIDGE REPLACEMENT **OVER THE NORWALK RIVER** BRIDGE NO. 04288R/MP 41.5

NORWALK DRAWING TITLE:

0301-0176

ACTIVITY 2 DUCTBANK INSTALLATION (3 OF 4)

REV 02-17-21 DRAWING NO.: CA2-3



SECTION

CA2-2

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
- 4. VERTICAL DATUM IS NAVD 88.

ELEVATION TAB	LE	
DESCRIPTION	CONTOUR	ELEVATION (NAVD88)
100-YEAR FLOODPLAIN	100 YR	12.0
MAX. ELEVATION OF LAND CAPABLE OF SUPPORTING TIDAL VEGETATION	CJL+1	6.4
CT COASTAL JURISDICTION LINE	CJL	5.4
HIGH TIDE LINE	HTL	5.2
MEAN HIGH WATER LINE	MHW	3.35
MEAN LOW WATER LINE	MLW	-3.72
MEAN LOWER LOW WATER LINE	MLLW	-3.98
TOWN:	PROJE	CT NO.:

SCALE IN FEET SCALE 1"=10'

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





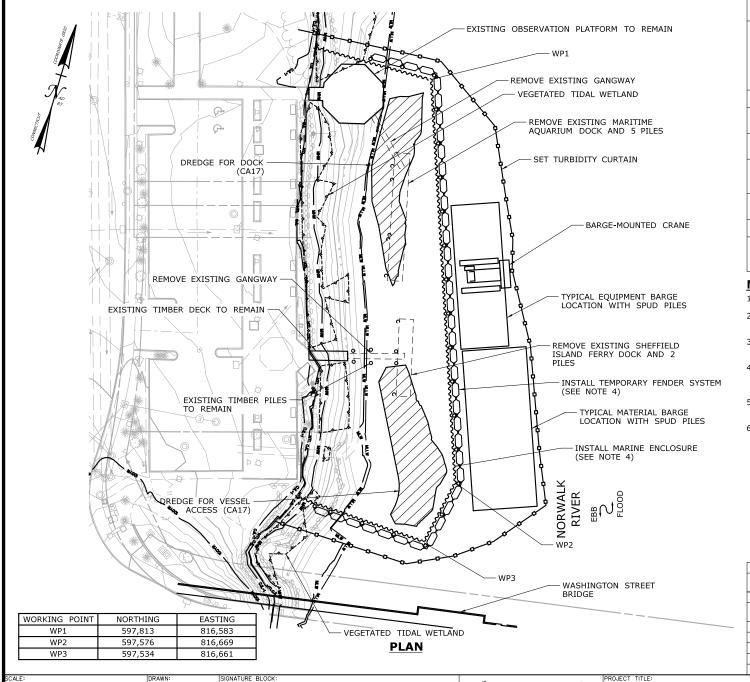


WALK BRIDGE REPLACEMENT **OVER THE NORWALK RIVER** BRIDGE NO. 04288R/MP 41.5

TOWN:		PROJECT NO.:
	NORWALK	0301-0176
DRAWING	TITLE:	DATE:
	ACTIVITY 2	REV 02-17-21

CA2-4

ACTIVITY 2 DUCTBANK DRAWING NO.: **INSTALLATION (4 OF 4)**



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 Χ 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,

RELOCATE MARITIME AQUARIUM AND SHEFFIELD ISLAND FERRY GANGWAYS, INSTALL NEW PERMANENT DOCK AND GANGWAY,

NOTES:

- 1. VERTICAL DATUM IS NAVD 88
- 2. ALL FENDER, PERMANENT AND SPUD PILES ARE ANTICIPATED TO BE 36" (MAX.) DIAMETER PILES.
- SEE VESSEL BERTHING PLAN (DWG. GEN-9) FOR TYPICAL BARGE SIZES.
- 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.), 1 FOOT ABOVE HIGH TIDE LINE.
- 6. THIS ACTIVITY IS CONTAINED ENTIRELY WITHIN THE 100-YR FLOODPLAIN.

ELEVATION TAB	LE	
DESCRIPTION	CONTOUR	ELEVATION (NAVD88)
100-YEAR FLOODPLAIN	100 YR	12.0
MAX. ELEVATION OF LAND CAPABLE OF SUPPORTING TIDAL VEGETATION	CJL+1	6.4
CT COASTAL JURISDICTION LINE	CJL	5.4
HIGH TIDE LINE	HTL	5.2
MEAN HIGH WATER LINE	MHW	3.35
MEAN LOW WATER LINE	MLW	-3.72
MEAN LOWER LOW WATER LINE	MLLW	-3.98
TOWN:	PROJE	CT NO.:

SCALE IN FEET SCALE 1"=60"

T. ADINOLFI CHECKED: V. ROBBINS APPROVED:

C. BROWN

HNTB Corporation



STATE OF CONNECTICUT

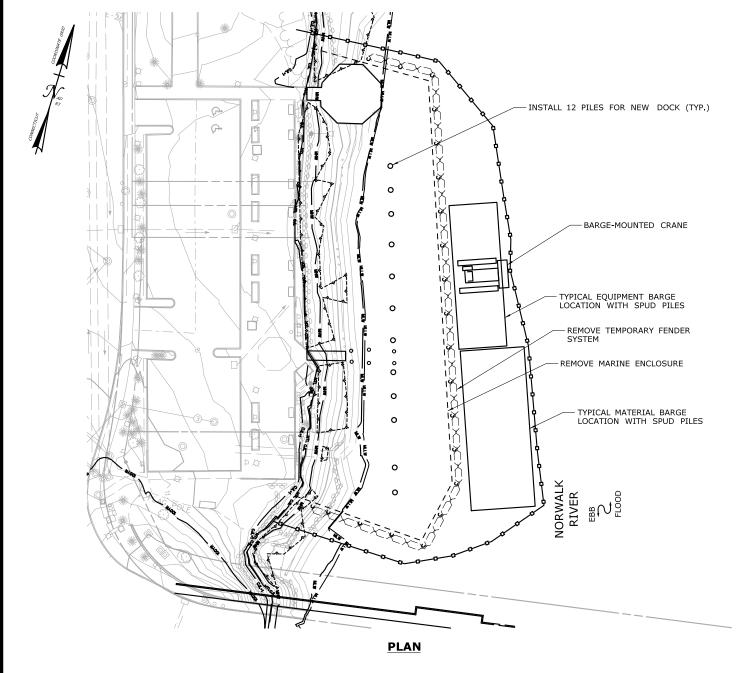
WALK BRIDGE REPLACEMENT **OVER THE NORWALK RIVER** BRIDGE NO. 04288R/MP 41.5

NORWALK DRAWING TITLE:

ACTIVITY 3 VESSEL RELOCATION (SHEET 1 OF 4)

REV 02-17-21 DRAWING NO.: CA3-1

0301-0176



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
- 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.
- DREDGING LIMITS NOT SHOWN FOR CLARITY (SEE ACTIVITY 17).
- 5. THIS ACTIVITY IS CONTAINED ENTIRELY WITHIN THE 100-YR FLOODPLAIN.

ELEVATION TAB	LE	
DESCRIPTION	CONTOUR	ELEVATION (NAVD88)
100-YEAR FLOODPLAIN	100 YR	12.0
MAX. ELEVATION OF LAND CAPABLE OF SUPPORTING TIDAL VEGETATION	CJL+1	6.4
CT COASTAL JURISDICTION LINE	CJL	5.4
HIGH TIDE LINE	HTL	5.2
MEAN HIGH WATER LINE	MHW	3.35
MEAN LOW WATER LINE	MLW	-3.72
MEAN LOWER LOW WATER LINE	MLLW	-3.98
TOWN:	PROJE	CT NO.:

SCALE IN FEET
0 30 6
SCALE 1"=60'

SCALE:

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

C. BROWN





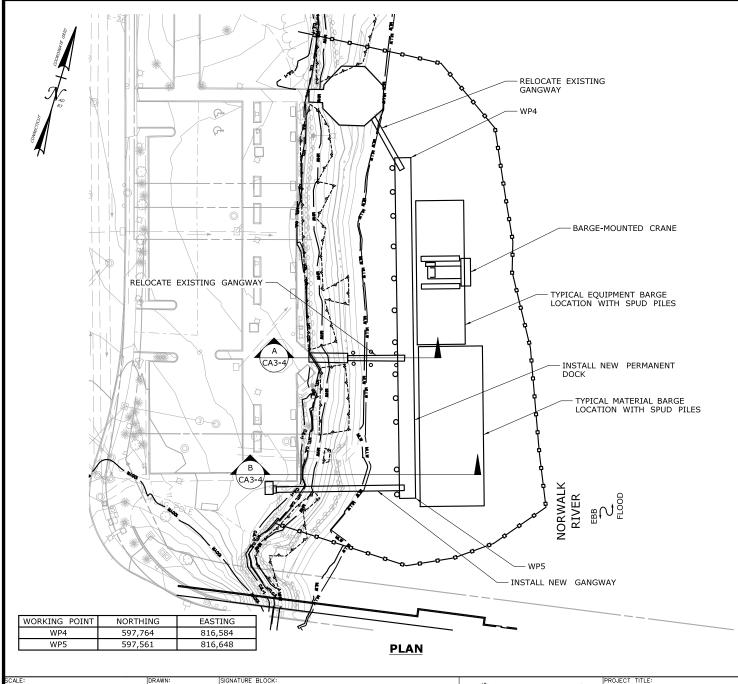
WALK BRIDGE REPLACEMENT OVER THE NORWALK RIVER BRIDGE NO. 04288R/MP 41.5 NORWALK

DRAWING TITLE:

0301-0176

ACTIVITY 3
VESSEL RELOCATION
(SHEET 2 OF 4)

REV 02-17-21
DRAWING NO.:
CA3-2



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

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.
- 2. ALL FENDER, PERMANENT AND SPUD PILES ARE ANTICIPATED TO BE 36" (MAX.) DIAMETER PILES.
- 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 TAB	LE	
DESCRIPTION	CONTOUR	ELEVATION (NAVD88)
100-YEAR FLOODPLAIN	100 YR	12.0
MAX. ELEVATION OF LAND CAPABLE OF SUPPORTING TIDAL VEGETATION	CJL+1	6.4
CT COASTAL JURISDICTION LINE	CJL	5.4
HIGH TIDE LINE	HTL	5.2
MEAN HIGH WATER LINE	MHW	3.35
MEAN LOW WATER LINE	MLW	-3.72
MEAN LOWER LOW WATER LINE	MLLW	-3.98

SCALE IN FEET SCALE 1"=60'

T. ADINOLFI CHECKED: V. ROBBINS APPROVED:

C. BROWN

HNTB Corporation



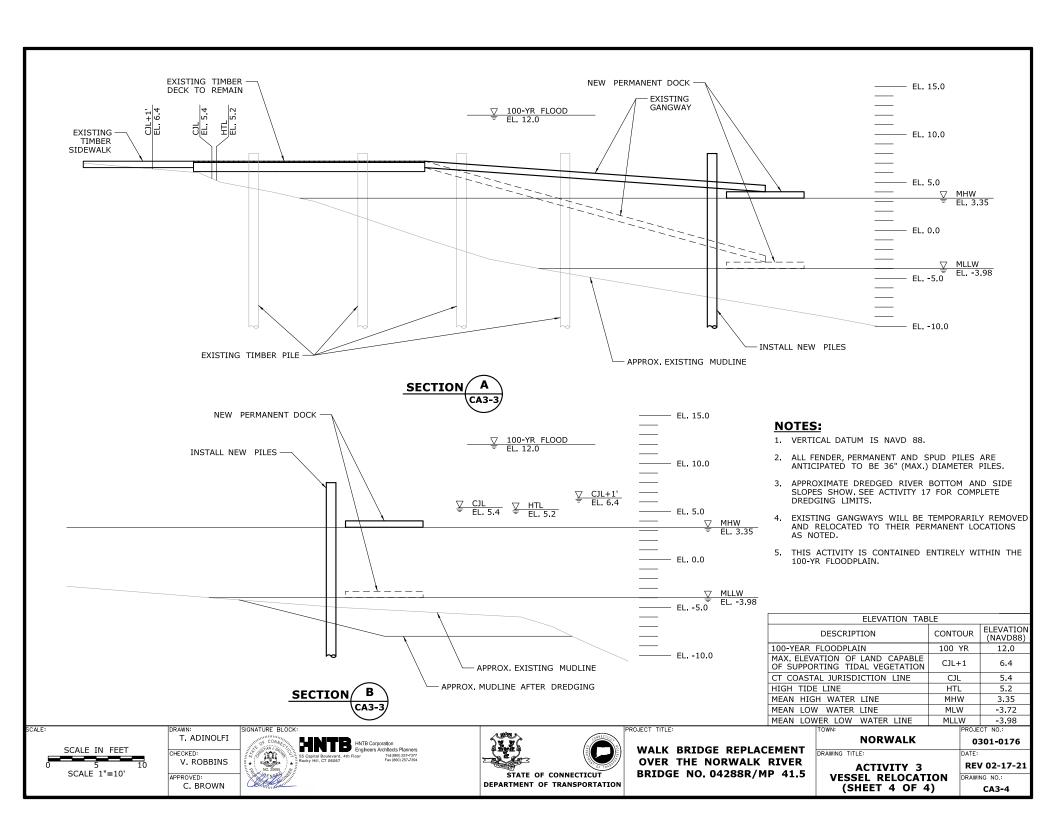
WALK BRIDGE REPLACEMENT **OVER THE NORWALK RIVER** BRIDGE NO. 04288R/MP 41.5

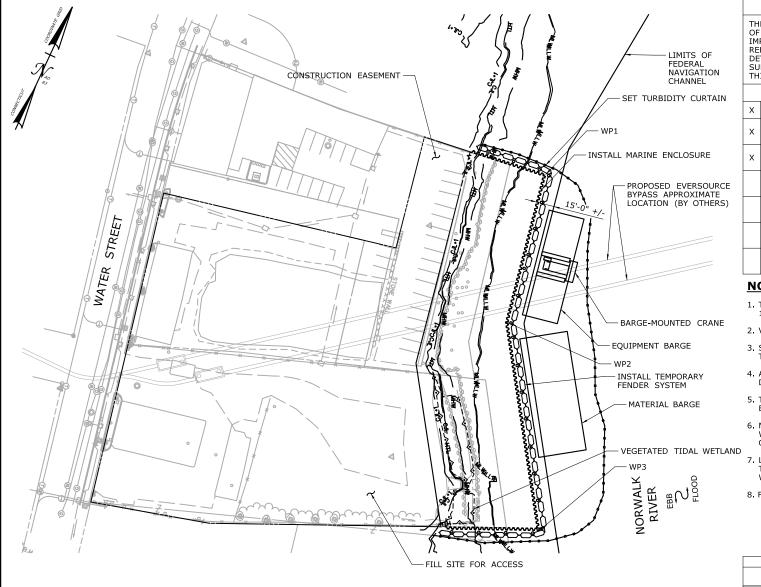
NORWALK DRAWING TITLE:

0301-0176

ACTIVITY 3 VESSEL RELOCATION (SHEET 3 OF 4)

REV 02-17-21 DRAWING NO.: CA3-3





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

SCALE IN FEET SCALE 1"=80

WORKING POINT

WP1

WP2

WP3

T. ADINOLFI CHECKED: V. ROBBINS APPROVED:

NORTHING

597,207

597,082

596,936

C. BROWN

EASTING

816,710

816,734

816,831

PLAN



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

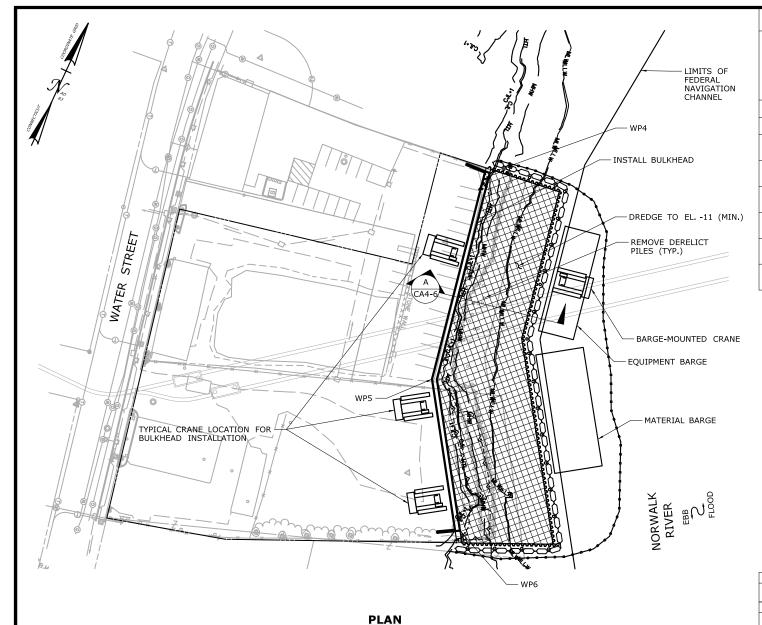
NORWALK DRAWING TITLE:

REV 05-11-21

ACTIVITY 4 MARINE STAGING YARD DRAWING NO.: (SHEET 1 OF 6)

CA4-1

0301-0176



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.
Х	INSTALL BULKHEAD, REMOVE DERELICT PILES AND DREDGE TO EL11 (MIN.) (SEE ACTIVITY 17).
	REMOVE MARINE ENCLOSURE AND TEMPORARY FENDER SYSTEM. DRIVE PILES FOR DOCKS.
	REMOVE TURBIDITY CURTAIN. SET DOCKS AND GANGWAYS.

NOTES:

AND PILES.

1. THIS ACTIVITY IS CONTAINED ENTIRELY WITHIN THE 100-YR FLOODPLAIN

SET TURBIDITY CURTAIN, REMOVE DOCKS, GANGWAYS

- 2. VERTICAL DATUM IS NAVD 88.
- 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.), 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)
100-YEAR FLOODPLAIN	100 YR	14.0
MAX. ELEVATION OF LAND CAPABLE OF SUPPORTING TIDAL VEGETATION	CJL+1	6.4
CT COASTAL JURISDICTION LINE	CJL	5.4
HIGH TIDE LINE	HTL	5.2
MEAN HIGH WATER LINE	MHW	3.35
MEAN LOW WATER LINE	MLW	-3.72
MEAN LOWER LOW WATER LINE	MLLW	-3.98
TOWN:	PROJE	CT NO.:

WORKING POINT

WP4

WP5

WP6

SCALE IN FEET SCALE 1"=80'

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

EASTING

816,650

816,683

816,753

NORTHING

597,195

597,020

596,914

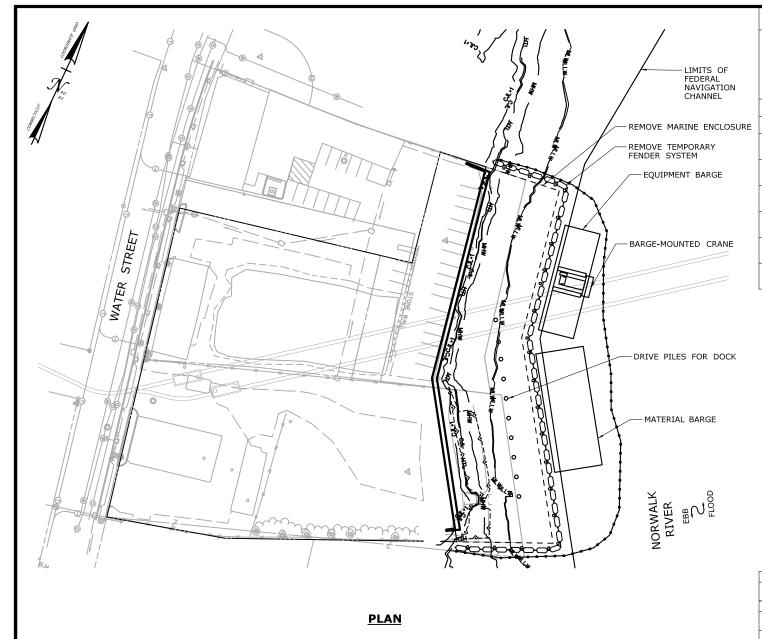


WALK BRIDGE REPLACEMENT **OVER THE NORWALK RIVER** BRIDGE NO. 04288R/MP 41.5

PROJECT NO.: **NORWALK** 0301-0176 DRAWING TITLE: REV 02-17-21

ACTIVITY 4 MARINE STAGING YARD DRAWING NO.: (SHEET 2 OF 6)

CA4-2



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 EL11 (MIN.) (SEE ACTIVITY 17).
X	REMOVE MARINE ENCLOSURE AND TEMPORARY FENDER SYSTEM. DRIVE PILES FOR DOCKS.
	REMOVE TURBIDITY CURTAIN. SET DOCKS AND GANGWAYS.

NOTES:

1. THIS ACTIVITY IS CONTAINED ENTIRELY WITHIN THE 100-YR FLOODPLAIN.

SET TURBIDITY CURTAIN, REMOVE DOCKS, GANGWAYS AND PILES.

- 2. VERTICAL DATUM IS NAVD 88.
- 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)
100-YEAR FLOODPLAIN	100 YR	14.0
MAX. ELEVATION OF LAND CAPABLE OF SUPPORTING TIDAL VEGETATION	CJL+1	6.4
CT COASTAL JURISDICTION LINE	CJL	5.4
HIGH TIDE LINE	HTL	5.2
MEAN HIGH WATER LINE	MHW	3.35
MEAN LOW WATER LINE	MLW	-3.72
MEAN LOWER LOW WATER LINE	MLLW	-3.98

(SHEET 3 OF 6)

SCALE 1"=80'

SCALE:

T. ADINOLFI CHECKED: V. ROBBINS APPROVED:

C. BROWN

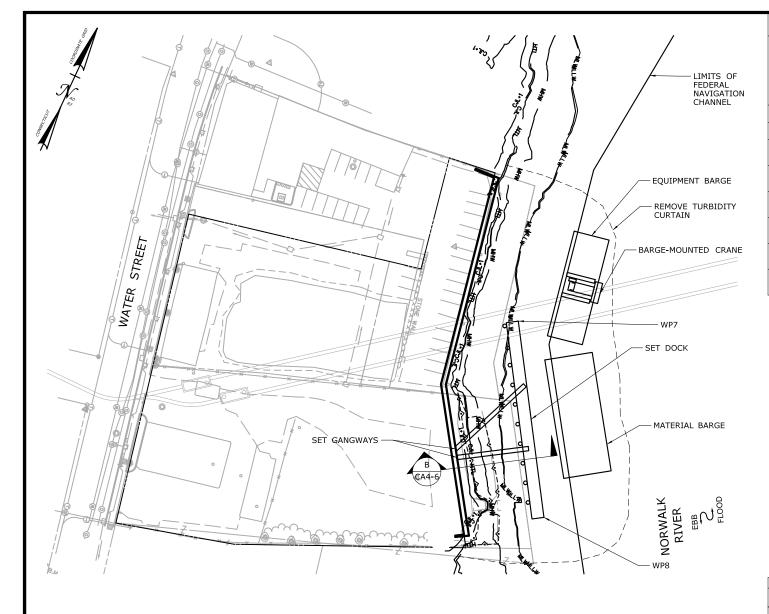


WALK BRIDGE REPLACEMENT **OVER THE NORWALK RIVER** BRIDGE NO. 04288R/MP 41.5

DRAWING TITLE:

ROJECT NO. NORWALK 0301-0176 REV 02-17-21 **ACTIVITY 4** MARINE STAGING YARD DRAWING NO.:

CA4-3



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 EL11 (MIN.) (SEE ACTIVITY 17).
	REMOVE MARINE ENCLOSURE AND TEMPORARY FENDER SYSTEM. DRIVE PILES FOR DOCKS.
· ·	REMOVE TURBIDITY CURTAIN, SET DOCKS AND

NOTES:

GANGWAYS.

1. THIS ACTIVITY IS CONTAINED ENTIRELY WITHIN THE 100-YR FLOODPLAIN.

SET TURBIDITY CURTAIN, REMOVE DOCKS, GANGWAYS AND PILES.

- 2. VERTICAL DATUM IS NAVD 88.
- 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)
100-YEAR FLOODPLAIN	100 YR	14.0
MAX. ELEVATION OF LAND CAPABLE OF SUPPORTING TIDAL VEGETATION	CJL+1	6.4
CT COASTAL JURISDICTION LINE	CJL	5.4
HIGH TIDE LINE	HTL	5.2
MEAN HIGH WATER LINE	MHW	3.35
MEAN LOW WATER LINE	MLW	-3.72
MEAN LOWER LOW WATER LINE	MLLW	-3.98

SCALE IN FEET SCALE 1"=80'

WORKING POINT

WP7 WP8

> T. ADINOLFI CHECKED: V. ROBBINS APPROVED:

C. BROWN

EASTING

816,715

816,803

NORTHING

597,094

596,954



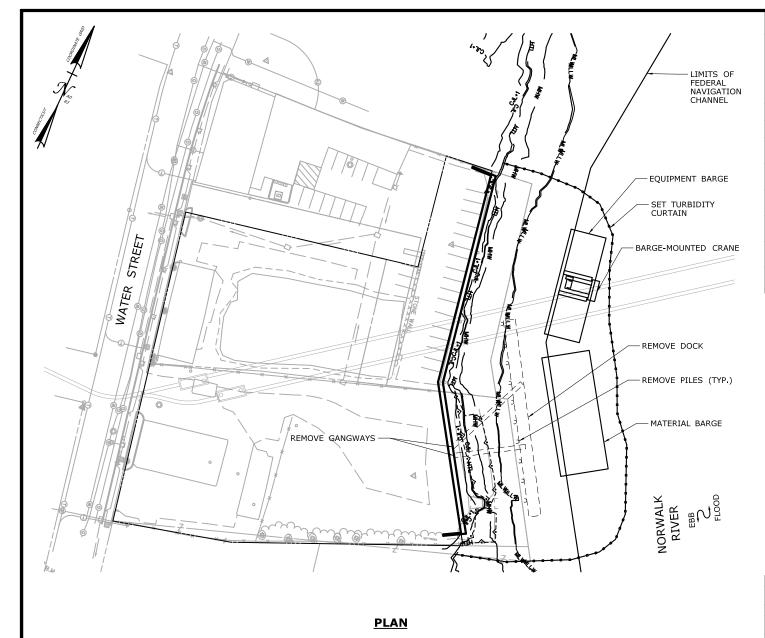


WALK BRIDGE REPLACEMENT **OVER THE NORWALK RIVER** BRIDGE NO. 04288R/MP 41.5

NORWALK 0301-0176 DRAWING TITLE:

ACTIVITY 4 MARINE STAGING YARD DRAWING NO.: (SHEET 4 OF 6)

REV 02-17-21 CA4-4



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.) (SEE ACTIVITY 17).

REMOVE MARINE ENCLOSURE AND TEMPORARY FENDER SYSTEM. DRIVE PILES FOR DOCKS.

REMOVE TURBIDITY CURTAIN, SET DOCKS AND

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.
- 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)
100-YEAR FLOODPLAIN	100 YR	14.0
MAX. ELEVATION OF LAND CAPABLE OF SUPPORTING TIDAL VEGETATION	CJL+1	6.4
CT COASTAL JURISDICTION LINE	CJL	5.4
HIGH TIDE LINE	HTL	5.2
MEAN HIGH WATER LINE	MHW	3.35
MEAN LOW WATER LINE	MLW	-3.72
MEAN LOWER LOW WATER LINE	MLLW	-3.98

SCALE IN FEET SCALE 1"=80'

SCALE:

T. ADINOLFI CHECKED: V. ROBBINS APPROVED:

C. BROWN



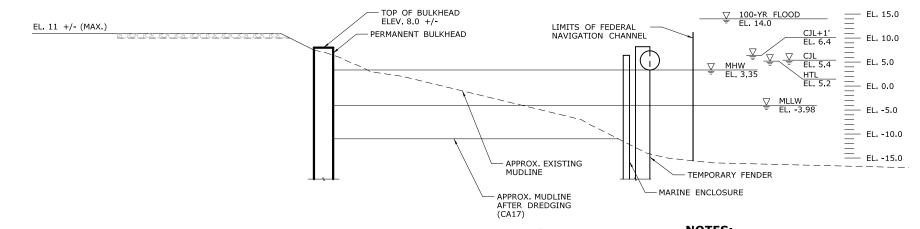


WALK BRIDGE REPLACEMENT **OVER THE NORWALK RIVER** BRIDGE NO. 04288R/MP 41.5

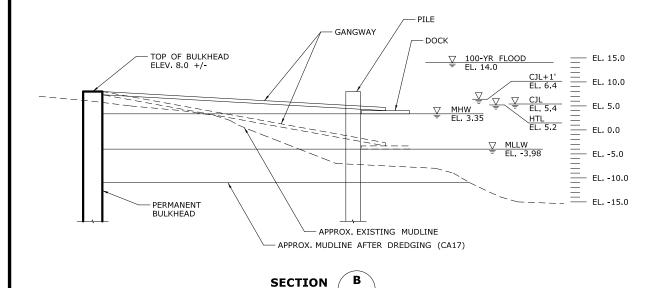
NORWALK 0301-0176 DRAWING TITLE: REV 02-17-21

ACTIVITY 4 MARINE STAGING YARD DRAWING NO.: (SHEET 5 OF 6)

CA4-5



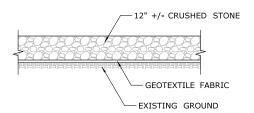
SECTION CA4-2



CA4-4

NOTES:

- 1. THIS ACTIVITY IS CONTAINED ENTIRELY WITHIN THE 100-YR FLOODPLAIN.
- 2. VERTICAL DATUM IS NAVD 88.
- 3. TOP OF MARINE ENCLOSURE WILL BE INSTALLED TO ELEV. 6.2 (MIN.), 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)
100-YEAR FLOODPLAIN	100 YR	14.0
MAX. ELEVATION OF LAND CAPABLE OF SUPPORTING TIDAL VEGETATION	CJL+1	6.4
CT COASTAL JURISDICTION LINE	CJL	5.4
HIGH TIDE LINE	HTL	5.2
MEAN HIGH WATER LINE	MHW	3.35
MEAN LOW WATER LINE	MLW	-3.72
MEAN LOWER LOW WATER LINE	MLLW	-3.98

SCALE IN FEET SCALE 1"=20'

CALE:

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

Engineers Architects Planners



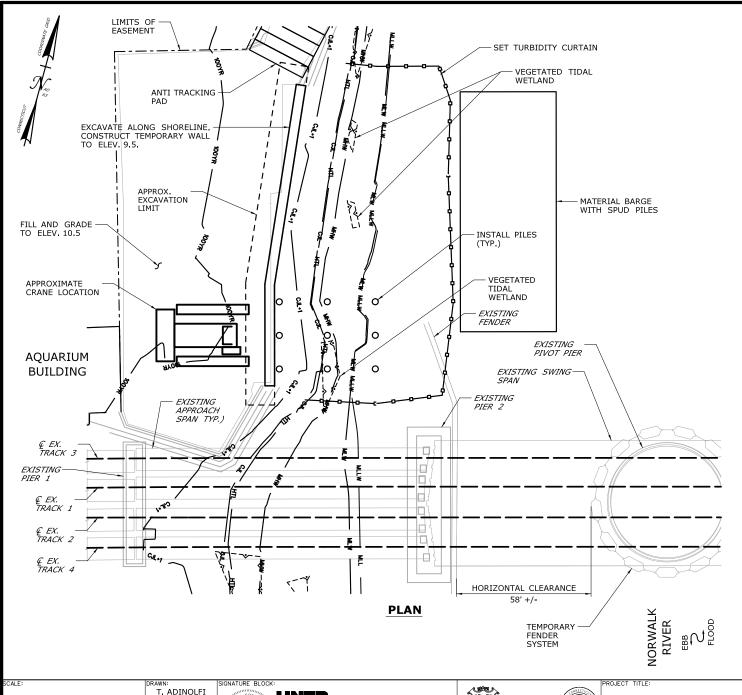
STATE OF CONNECTICUT

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

ROJECT NO. NORWALK 0301-0176 DRAWING TITLE:

ACTIVITY 4 MARINE STAGING YARD DRAWING NO.: (SHEET 6 OF 6)

REV 02-17-21 CA4-6



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
- 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

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,
- SEE VESSEL BERTHING PLAN (DWG, GEN-9) FOR TYPICAL BARGE SIZES.

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

SCALE IN FEET SCALE 1"=40'

CHECKED: V. ROBBINS APPROVED: C. BROWN

HNTB Corporation



STATE OF CONNECTICUT

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

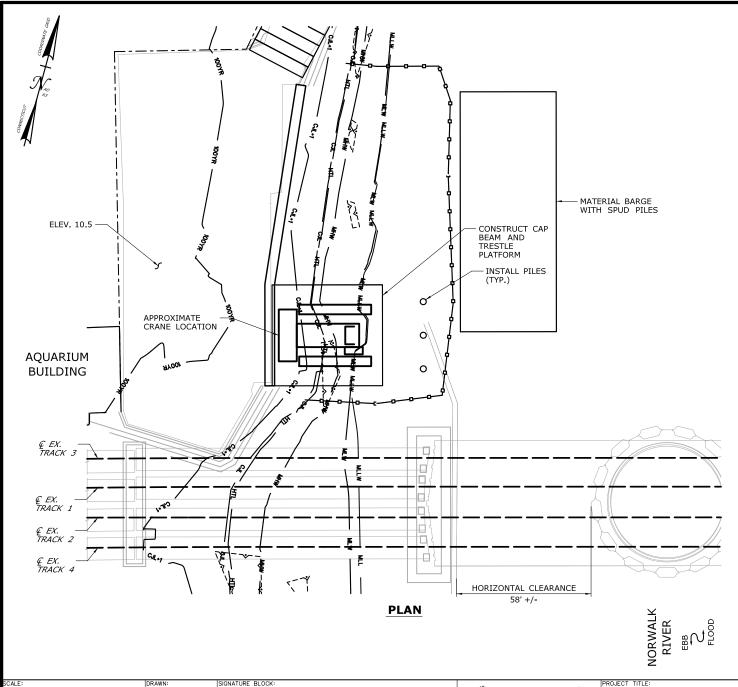
NORWALK

DRAWING TITLE:

ACTIVITY 5 NORTHWEST TRESTLE (SHEET 1 OF 5)

REV 6-24-20 DRAWING NO.: CA5-1

0301-0176



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

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

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,
- 3. TOP OF PLATFORM IS ELEV. 10.5.
- SEE VESSEL BERTHING PLAN (DWG, GEN-9) FOR TYPICAL BARGE SIZES.

ELEVATION TABLE		
DESCRIPTION	CONTOUR	ELEVATION (NAVD88)
100-YEAR FLOODPLAIN	100 YR	10.0
MAX. ELEVATION OF LAND CAPABLE OF SUPPORTING TIDAL VEGETATION	CJL+1	6.4
CT COASTAL JURISDICTION LINE	CJL	5.4
HIGH TIDE LINE	HTL	5.2
MEAN HIGH WATER LINE	MHW	3.35
MEAN LOW WATER LINE	MLW	-3.72
MEAN LOWER LOW WATER LINE	MLLW	-3.98
TOWN:	PROJE	CT NO.:

SCALE IN FEET SCALE 1"=40'

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

HNTB Corporation



STATE OF CONNECTICUT DEPARTMENT OF TRANSPORTATION

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

NORWALK

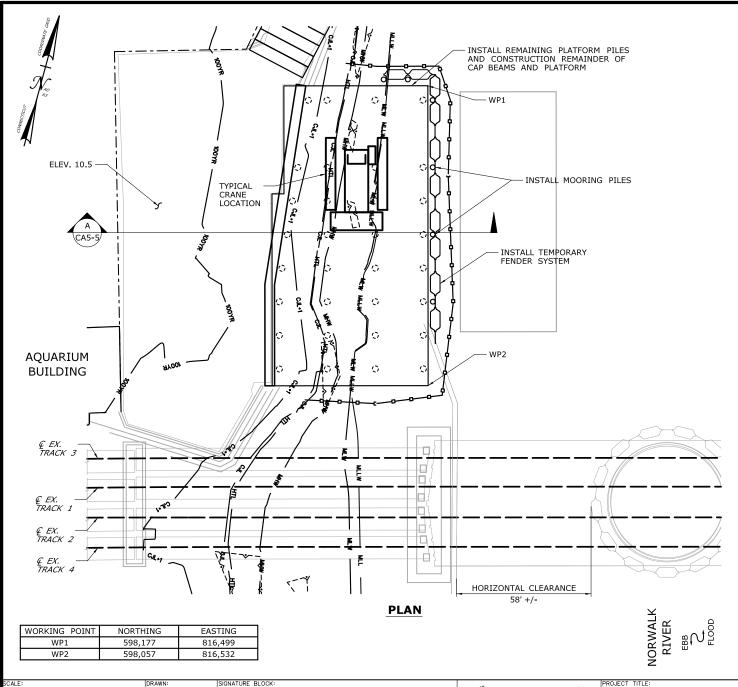
DRAWING TITLE:

ACTIVITY 5 NORTHWEST TRESTLE

REV 6-24-20 DRAWING NO.: CA5-2

0301-0176

(SHEET 2 OF 5)



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

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

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,
- 3. TOP OF PLATFORM IS ELEV. 10.5.
- 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)
100-YEAR FLOODPLAIN	100 YR	10.0
MAX. ELEVATION OF LAND CAPABLE OF SUPPORTING TIDAL VEGETATION	CJL+1	6.4
CT COASTAL JURISDICTION LINE	CJL	5.4
HIGH TIDE LINE	HTL	5.2
MEAN HIGH WATER LINE	MHW	3.35
MEAN LOW WATER LINE	MLW	-3.72
MEAN LOWER LOW WATER LINE	MLLW	-3.98
TOWN:	PROJE	CT NO.:

SCALE IN FEET SCALE 1"=40'

T. ADINOLFI CHECKED: V. ROBBINS APPROVED:

C. BROWN

HNTB Corporation



STATE OF CONNECTICUT DEPARTMENT OF TRANSPORTATION

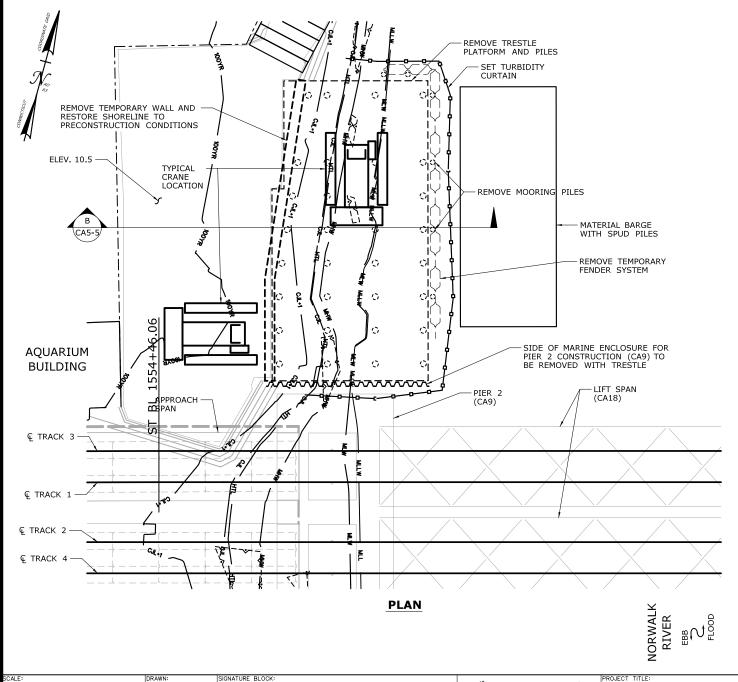
WALK BRIDGE REPLACEMENT **OVER THE NORWALK RIVER** BRIDGE NO. 04288R/MP 41.5

NORWALK DRAWING TITLE:

0301-0176

ACTIVITY 5 NORTHWEST TRESTLE (SHEET 3 OF 5)

REV 6-24-20 DRAWING NO.: CA5-3



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

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.

- 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:

- SPUD PILES, PLATFORM SUPPORT PILES, AND MOORING PILES ARE ANTICIPATED TO BE 36" (MAX.) DIAMETER PIPE PILES.
- 2, VERTICAL DATUM IS NAVD 88,
- 3. TOP OF PLATFORM IS ELEV. 10.5.
- SEE VESSEL BERTHING PLAN (DWG, GEN-9) FOR TYPICAL BARGE SIZES.
- 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)
100-YEAR FLOODPLAIN	100 YR	10.0
MAX. ELEVATION OF LAND CAPABLE OF SUPPORTING TIDAL VEGETATION	CJL+1	6.4
CT COASTAL JURISDICTION LINE	CJL	5.4
HIGH TIDE LINE	HTL	5.2
MEAN HIGH WATER LINE	MHW	3.35
MEAN LOW WATER LINE	MLW	-3.72
MEAN LOWER LOW WATER LINE	MLLW	-3.98
TOWN:	PROJE	CT NO.:

SCALE IN FEET SCALE 1"=40'

T. ADINOLFI CHECKED: V. ROBBINS APPROVED:

C. BROWN



STATE OF CONNECTICUT DEPARTMENT OF TRANSPORTATION

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

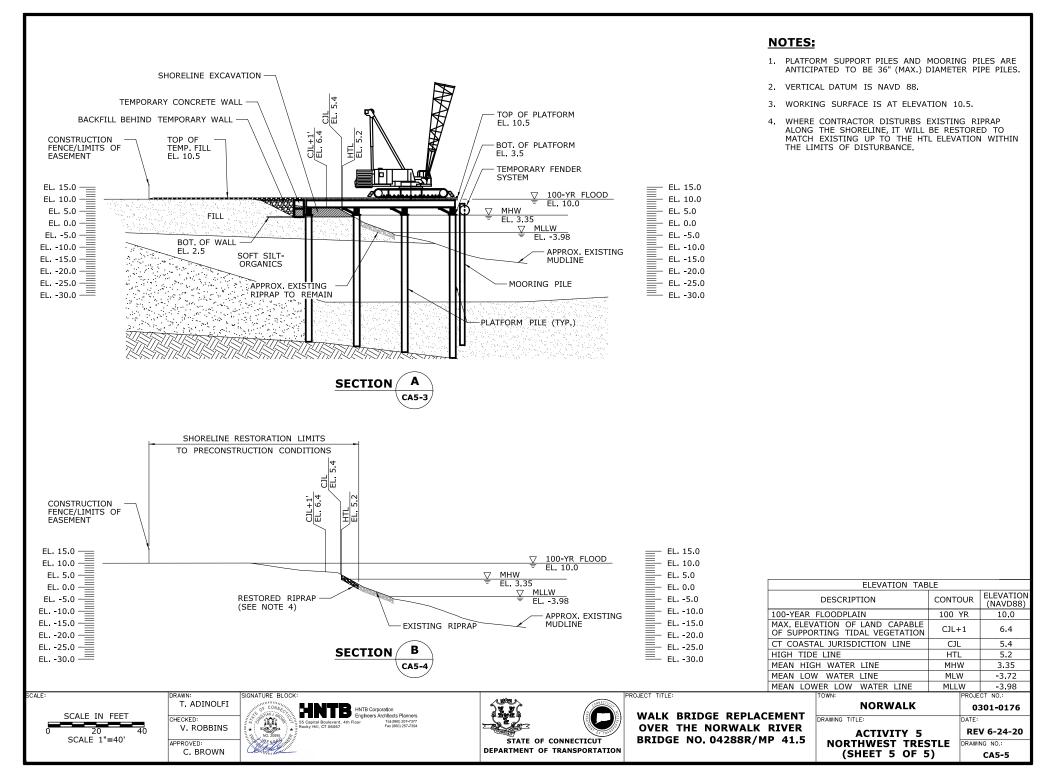
NORWALK

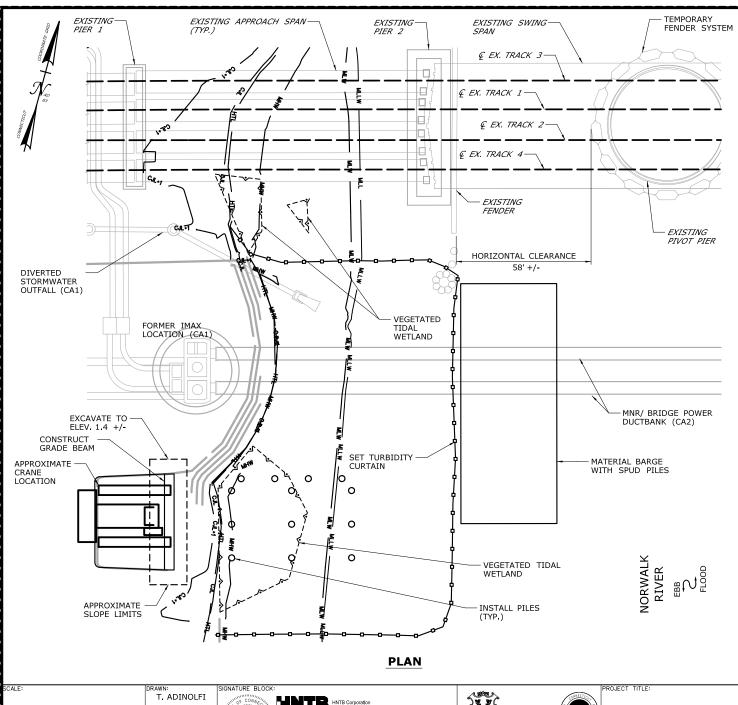
DRAWING TITLE:

0301-0176

ACTIVITY 5 NORTHWEST TRESTLE (SHEET 4 OF 5)

REV 6-24-20 DRAWING NO.: CA5-4





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

- Χ SET TURBIDITY CURTAIN.
- Χ EXCAVATE SHORELINE AT PLATFORM RAMP.
- CONSTRUCT GRADE BEAM AND INSTALL PILES TO Χ 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.
- 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)
100-YEAR FLOODPLAIN	100 YR	12.0
MAX. ELEVATION OF LAND CAPABLE OF SUPPORTING TIDAL VEGETATION	CJL+1	6.4
CT COASTAL JURISDICTION LINE	CJL	5.4
HIGH TIDE LINE	HTL	5.2
MEAN HIGH WATER LINE	MHW	3.35
MEAN LOW WATER LINE	MLW	-3.72
MEAN LOWER LOW WATER LINE	MLLW	-3.98

SCALE IN FEET SCALE 1"=40'

CHECKED: V. ROBBINS APPROVED:

C. BROWN

Engineers Architects Planners



DEPARTMENT OF TRANSPORTATION

STATE OF CONNECTICUT

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

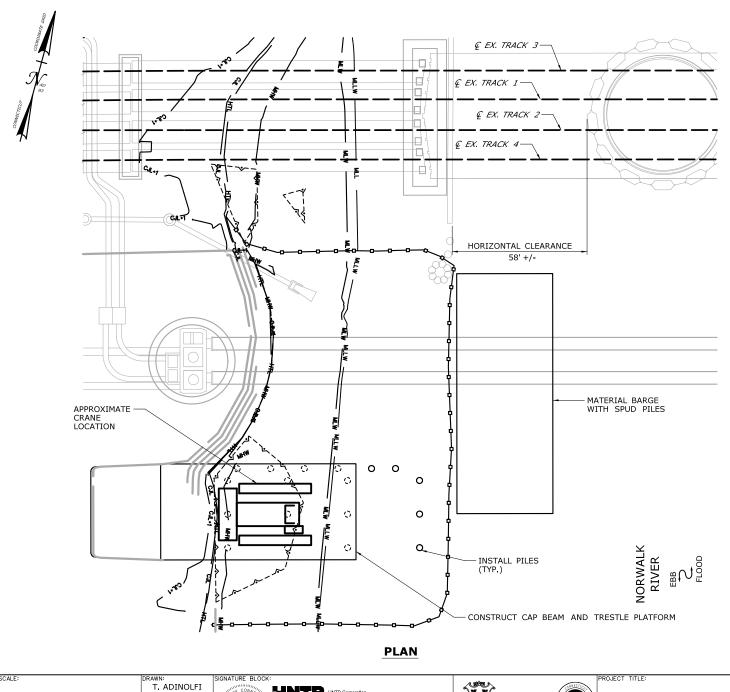
NORWALK

DRAWING TITLE:

ACTIVITY 6 SOUTHWEST TRESTLE (SHEET 1 OF 5)

REV 05-11-21 DRAWING NO.: CA6-1

0301-0176



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.

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.
- 3. TOP OF PLATFORM IS AT ELEV. 10.66.
- SEE VESSEL BERTHING PLAN (DWG. GEN-9) FOR TYPICAL BARGE SIZES.
- THIS ACTIVITY IS CONTAINED ENTIRELY WITHIN THE 100-YR FLOODPLAIN.

ELEVATION TABLE				
DESCRIPTION	CONTOUR	ELEVATION (NAVD88)		
100-YEAR FLOODPLAIN	100 YR	12.0		
MAX. ELEVATION OF LAND CAPABLE OF SUPPORTING TIDAL VEGETATION	CJL+1	6.4		
CT COASTAL JURISDICTION LINE	CJL	5.4		
HIGH TIDE LINE	HTL	5.2		
MEAN HIGH WATER LINE	MHW	3.35		
MEAN LOW WATER LINE	MLW	-3.72		
MEAN LOWER LOW WATER LINE	MLLW	-3.98		
TOWN: PROJECT NO.:				

SCALE IN FEET SCALE 1"=40'

CHECKED: V. ROBBINS APPROVED:

C. BROWN

HNTB Corporation



STATE OF CONNECTICUT DEPARTMENT OF TRANSPORTATION

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

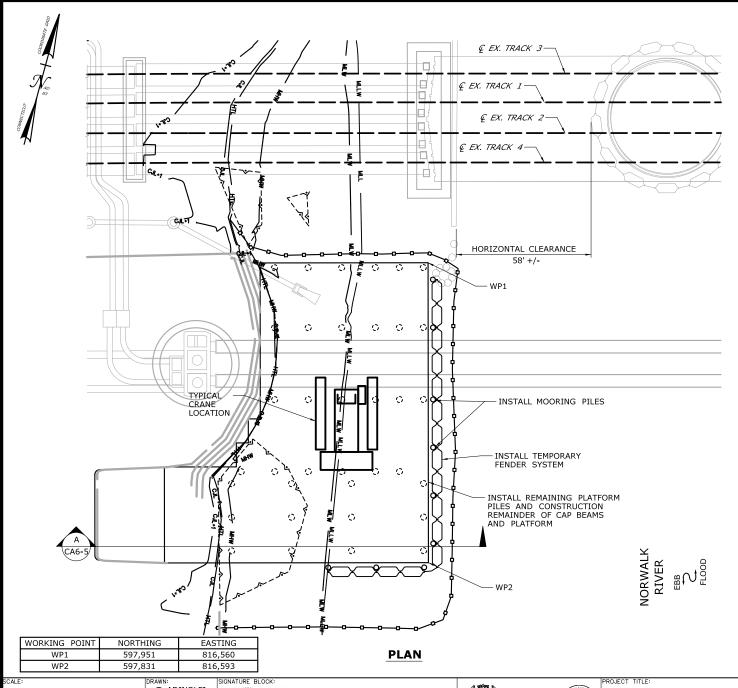
NORWALK

DRAWING TITLE:

0301-0176

ACTIVITY 6 SOUTHWEST TRESTLE (SHEET 2 OF 5)

REV 05-11-21 DRAWING NO.: CA6-2



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

	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.				
Х	INSTALL REMAINING PILES, CONSTRUCT CAP BEAMS, AND CONSTRUCT PLATFORM INTERMITTENTLY TO COMPLETE THE PLATFORM.				
Х	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.				

NOTES:

SPUD PILES, PLATFORM SUPPORT PILES, AND MOORING PILES ARE ANTICIPATED TO BE 36" (MAX.) DIAMETER PIPE PILES.

REMOVE TEMPORARY GRADE BEAM AND RESTORE SHORELINE TO PRECONSTRUCTION CONDITIONS.

- 2. VERTICAL DATUM IS NAVD 88.
- 3. TOP OF PLATFORM ELEV. 10.66.
- 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 TAB				
DESCRIPTION	CONTOUR	ELEVATION (NAVD88)		
100-YEAR FLOODPLAIN	100 YR	12.0		
MAX. ELEVATION OF LAND CAPABLE OF SUPPORTING TIDAL VEGETATION	CJL+1	6.4		
CT COASTAL JURISDICTION LINE	CJL	5.4		
HIGH TIDE LINE	HTL	5.2		
MEAN HIGH WATER LINE	MHW	3.35		
MEAN LOW WATER LINE	MLW	-3.72		
MEAN LOWER LOW WATER LINE	MLLW	-3.98		
TOWN: PROJECT NO.:				

SCALE IN FEET SCALE 1"=40'

T, ADINOLFI CHECKED: V. ROBBINS APPROVED:

C. BROWN

HNTB Corporation



STATE OF CONNECTICUT DEPARTMENT OF TRANSPORTATION

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

NORWALK

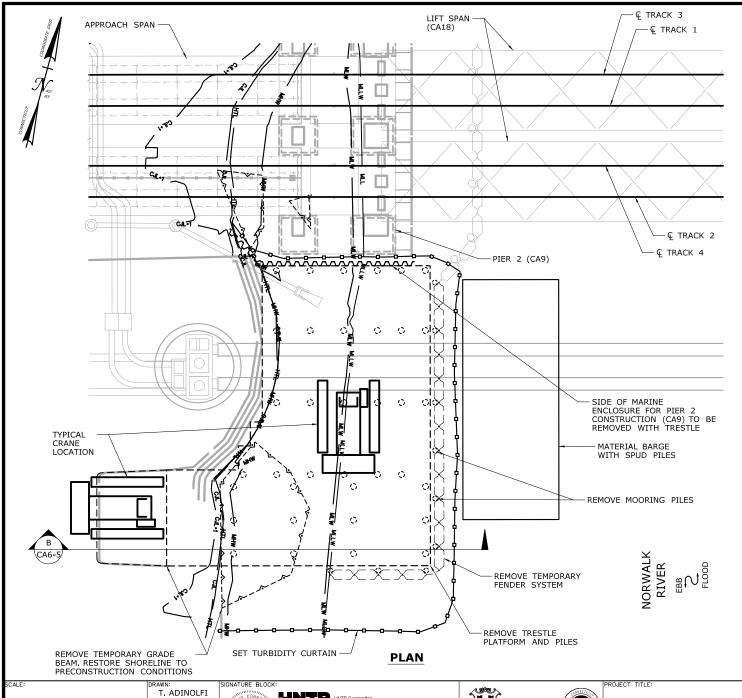
DRAWING TITLE:

ACTIVITY 6 SOUTHWEST TRESTLE

REV 05-11-21 DRAWING NO.: CA6-3

0301-0176

(SHEET 3 OF 5)



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.

- 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:

- SPUD PILES, PLATFORM SUPPORT PILES, AND MOORING PILES ARE ANTICIPATED TO BE 36" (MAX.) DIAMETER
- 2. VERTICAL DATUM IS NAVD 88.
- 3. TOP OF PLATFORM ELEV. 10,66.
- SEE VESSEL BERTHING PLAN (DWG. GEN-9) FOR TYPICAL BARGE SIZES.
- 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)		
100-YEAR FLOODPLAIN	100 YR	12.0		
MAX. ELEVATION OF LAND CAPABLE OF SUPPORTING TIDAL VEGETATION	CJL+1	6.4		
CT COASTAL JURISDICTION LINE	CJL	5.4		
HIGH TIDE LINE	HTL	5.2		
MEAN HIGH WATER LINE	MHW	3.35		
MEAN LOW WATER LINE	MLW	-3.72		
MEAN LOWER LOW WATER LINE	MLLW	-3.98		
TOWN: PROJECT NO:				

SCALE IN FEET SCALE 1"=40'

CHECKED: V. ROBBINS APPROVED: C. BROWN

HNTB Corporation Engineers Architects Planners



STATE OF CONNECTICUT

DEPARTMENT OF TRANSPORTATION

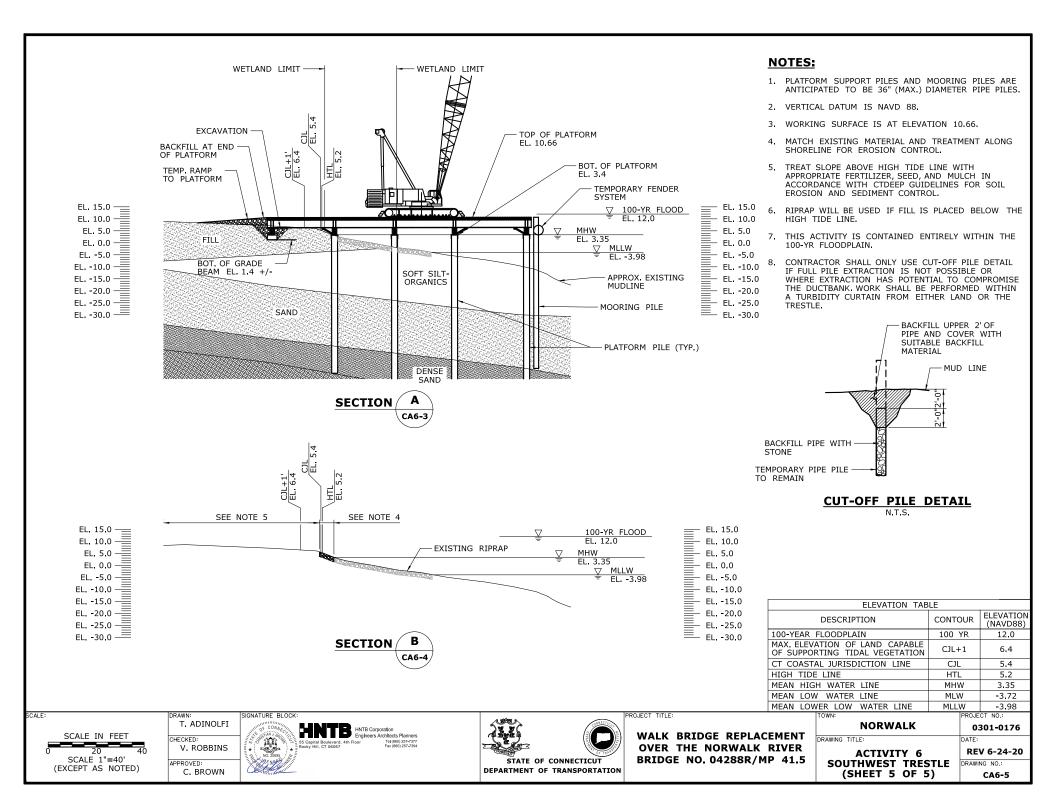
WALK BRIDGE REPLACEMENT **OVER THE NORWALK RIVER** BRIDGE NO. 04288R/MP 41.5

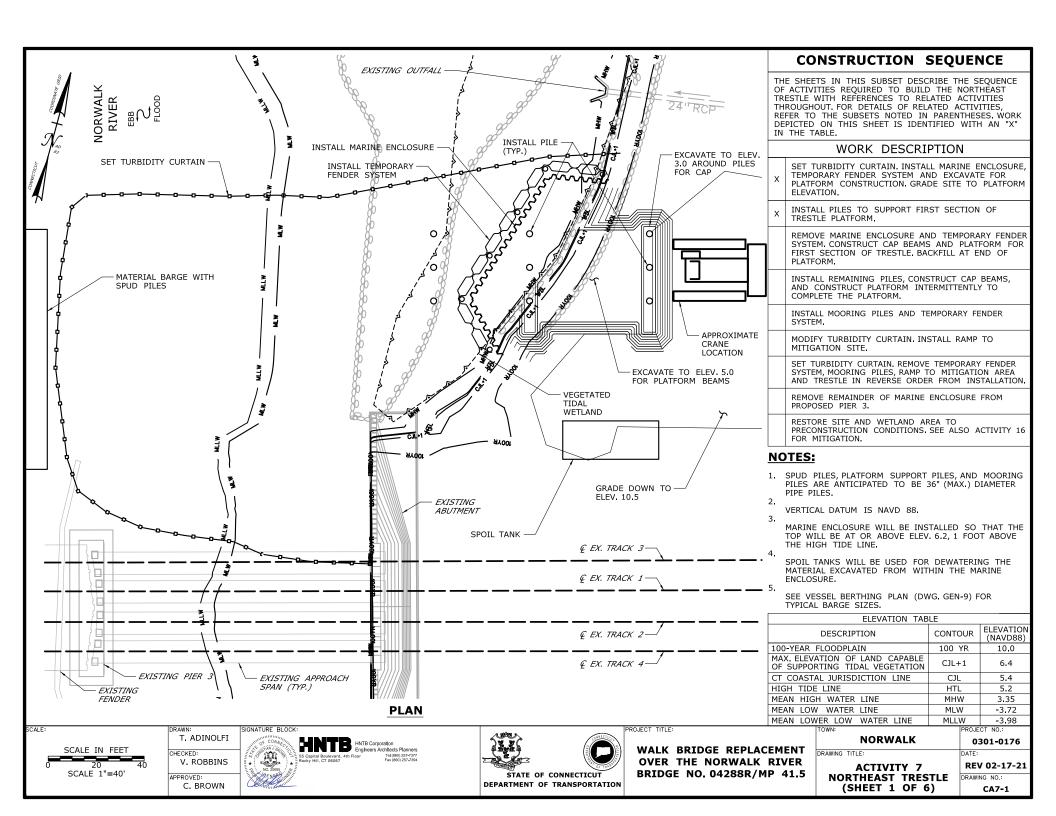
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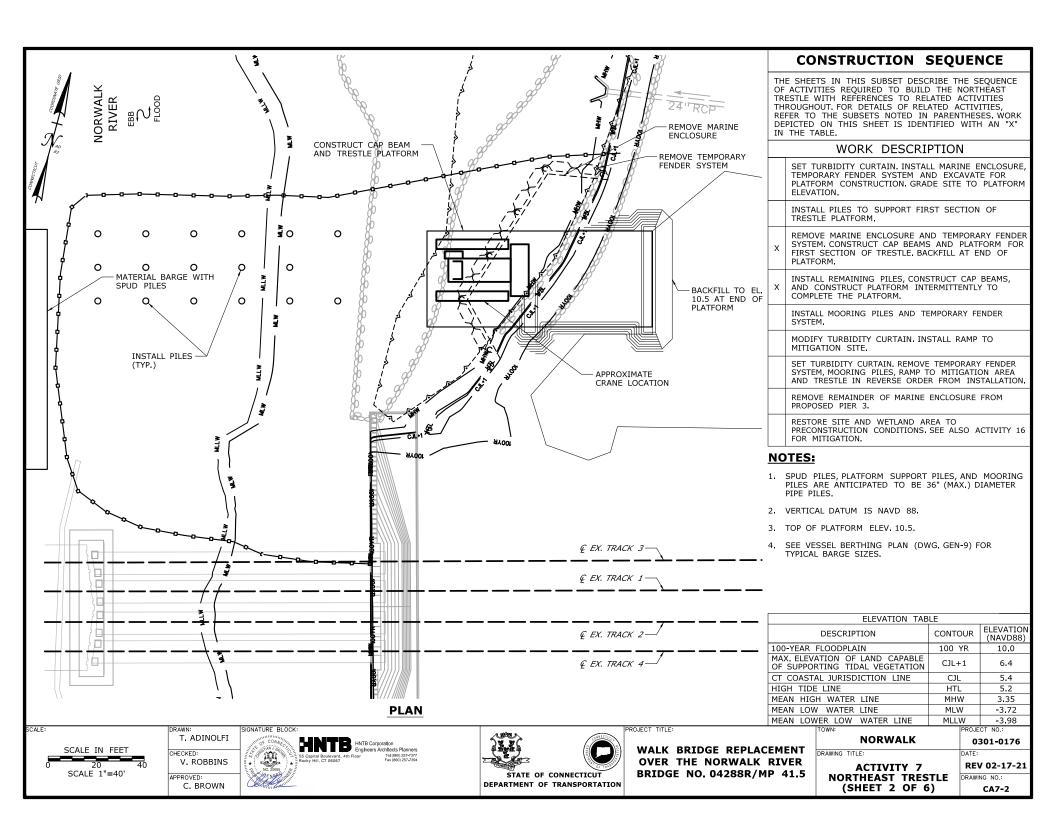
ACTIVITY 6 SOUTHWEST TRESTLE (SHEET 4 OF 5)

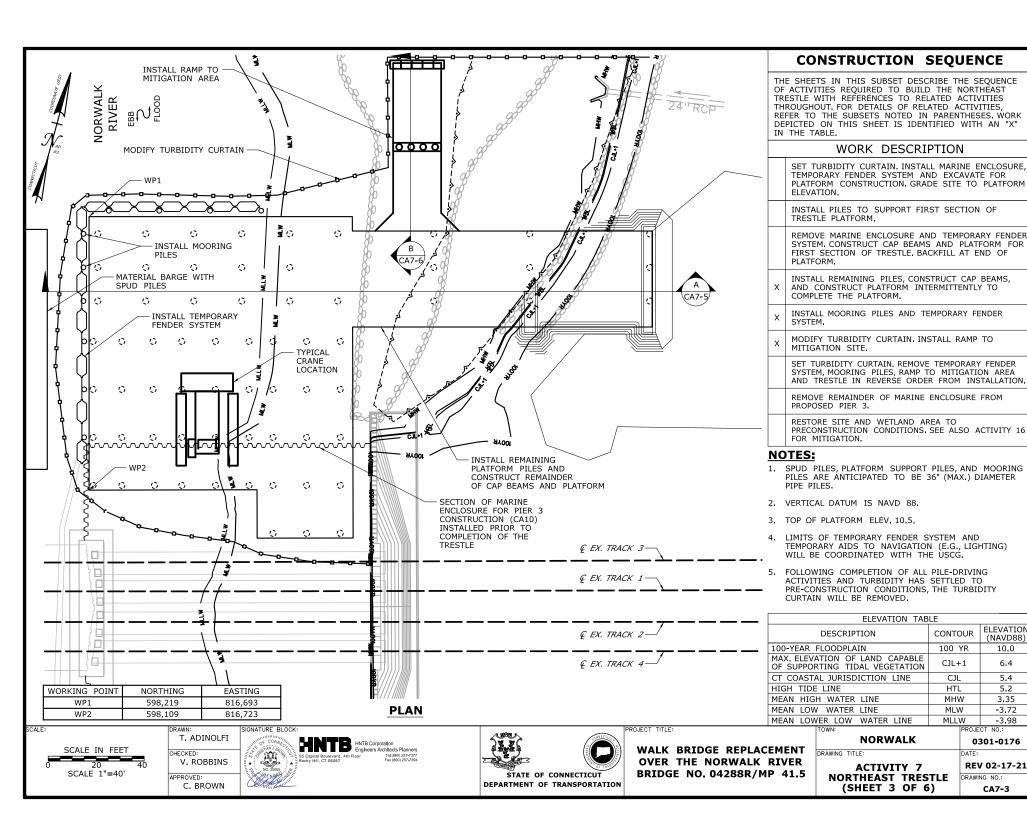
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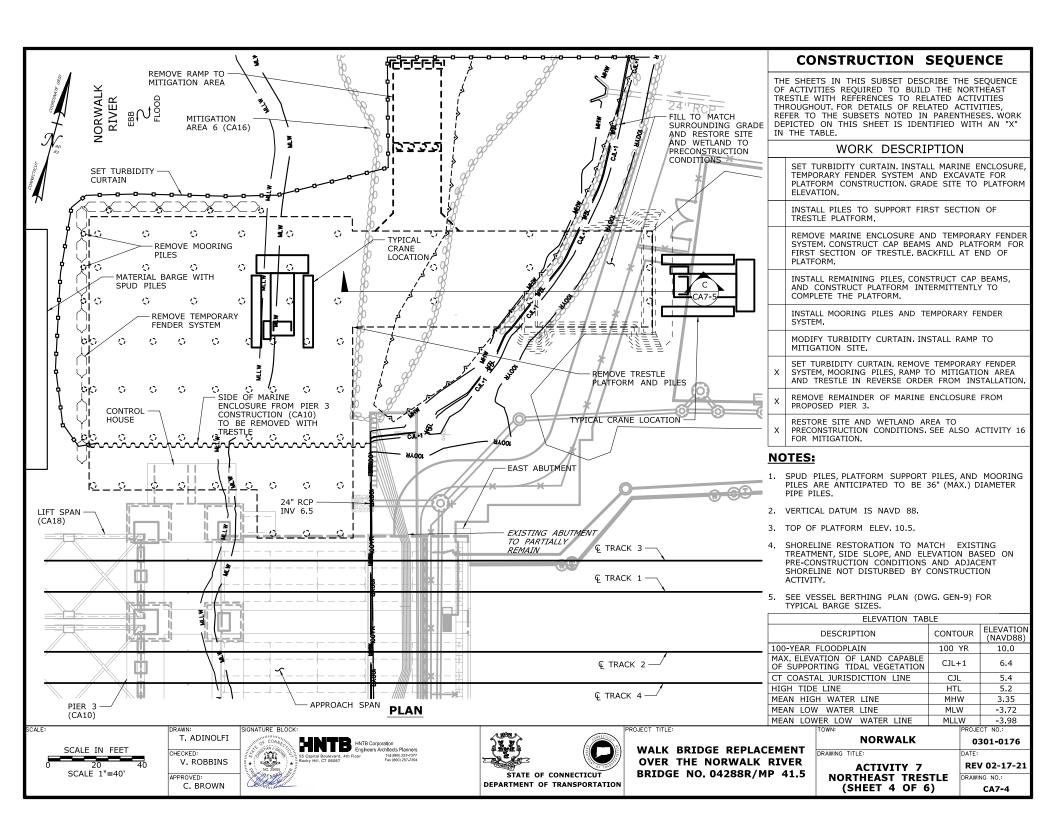
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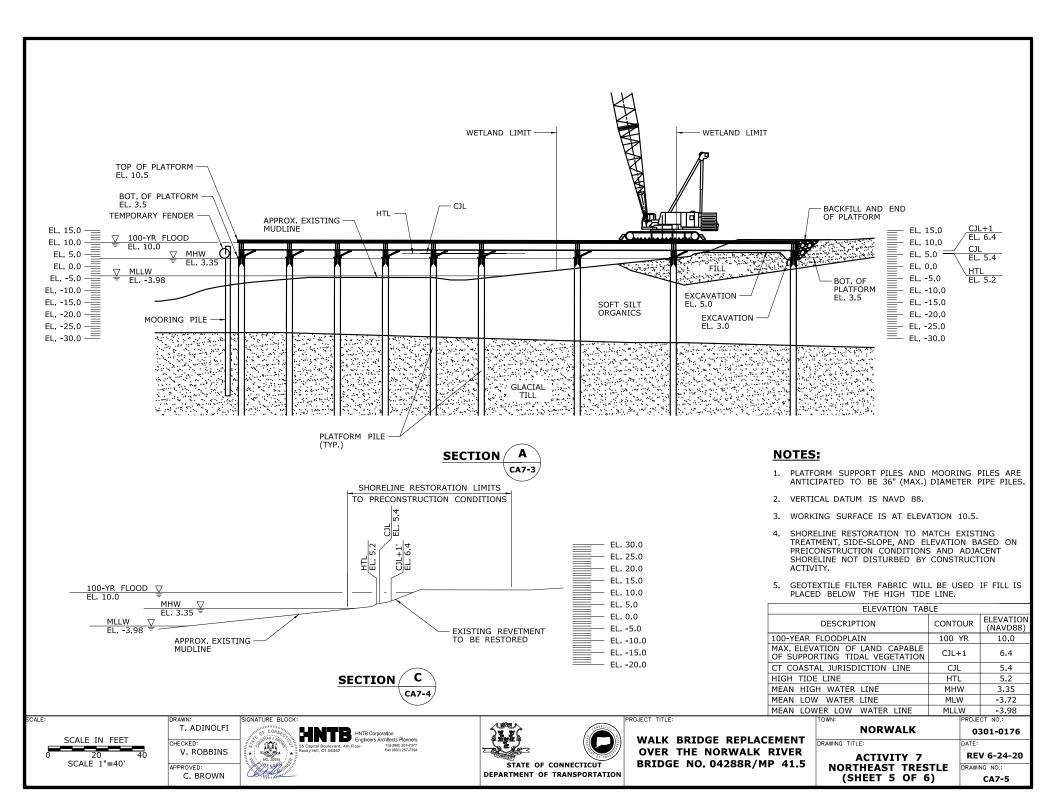


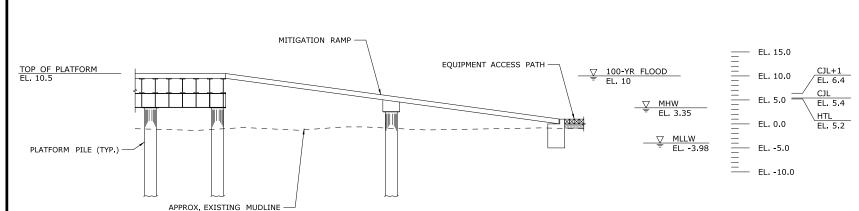












SECTION

NOTES:

- 1. PLATFORM SUPPORT PILES AND MOORING PILES ARE ANTICIPATED TO BE 36" (MAX.) DIAMETER PIPE PILES.
- 2. VERTICAL DATUM IS NAVD 88.

ELEVATION TAB	LE		
DESCRIPTION	CONTOUR	ELEVATION (NAVD88)	
100-YEAR FLOODPLAIN	100 YR	10.0	
MAX. ELEVATION OF LAND CAPABLE OF SUPPORTING TIDAL VEGETATION	CJL+1	6.4	
CT COASTAL JURISDICTION LINE	CJL	5.4	
HIGH TIDE LINE	HTL	5.2	
MEAN HIGH WATER LINE	MHW	3.35	
MEAN LOW WATER LINE	MLW	-3.72	
MEAN LOWER LOW WATER LINE	MLLW	-3.98	
TOWN: PPO FCT NO:			

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

T. ADINOLFI

CHECKED:
V. ROBBINS

APPROVED:
C. BROWN

SIGNATURE BLOCK:

HNTB Corporation
Engineers Activities Planners
Statistics Planners
Statistics Planners
Activities Planners
Fig. (800) 232-2734
Fig. (800) 232-2734



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

TOWN:	·
	NORWALK
DEAMING	TITLE:

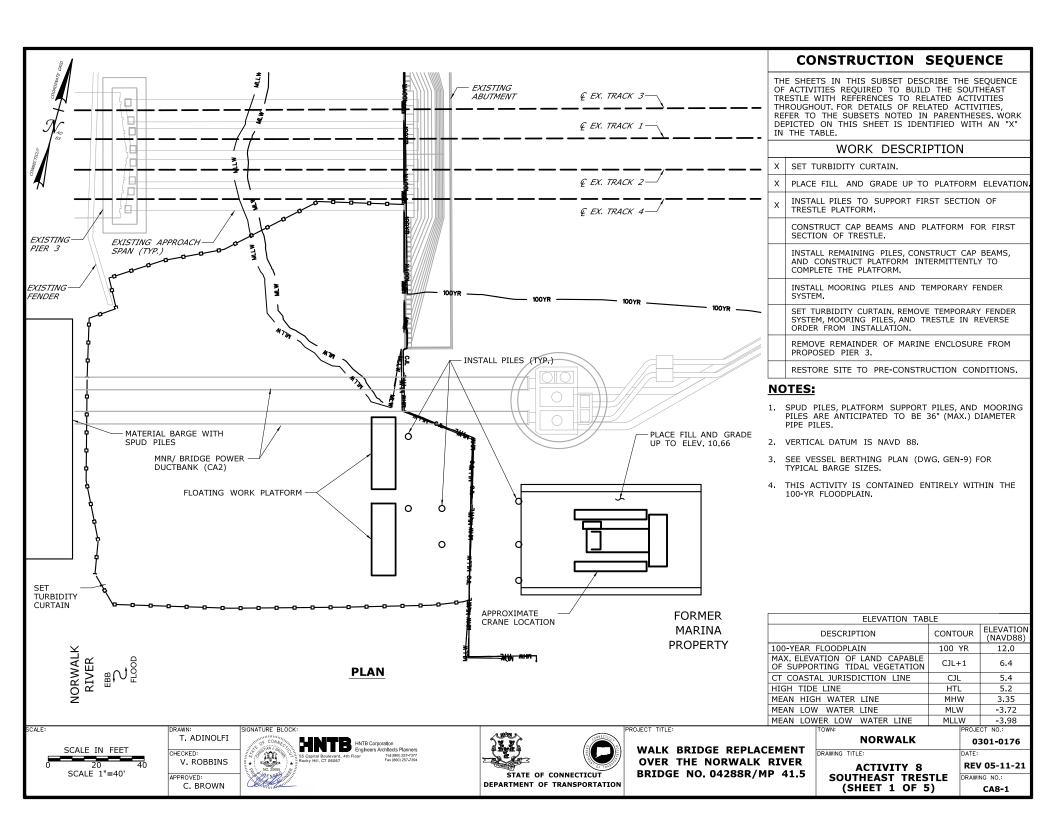
ACTIVITY 7 NORTHEAST TRESTLE (SHEET 6 OF 6)

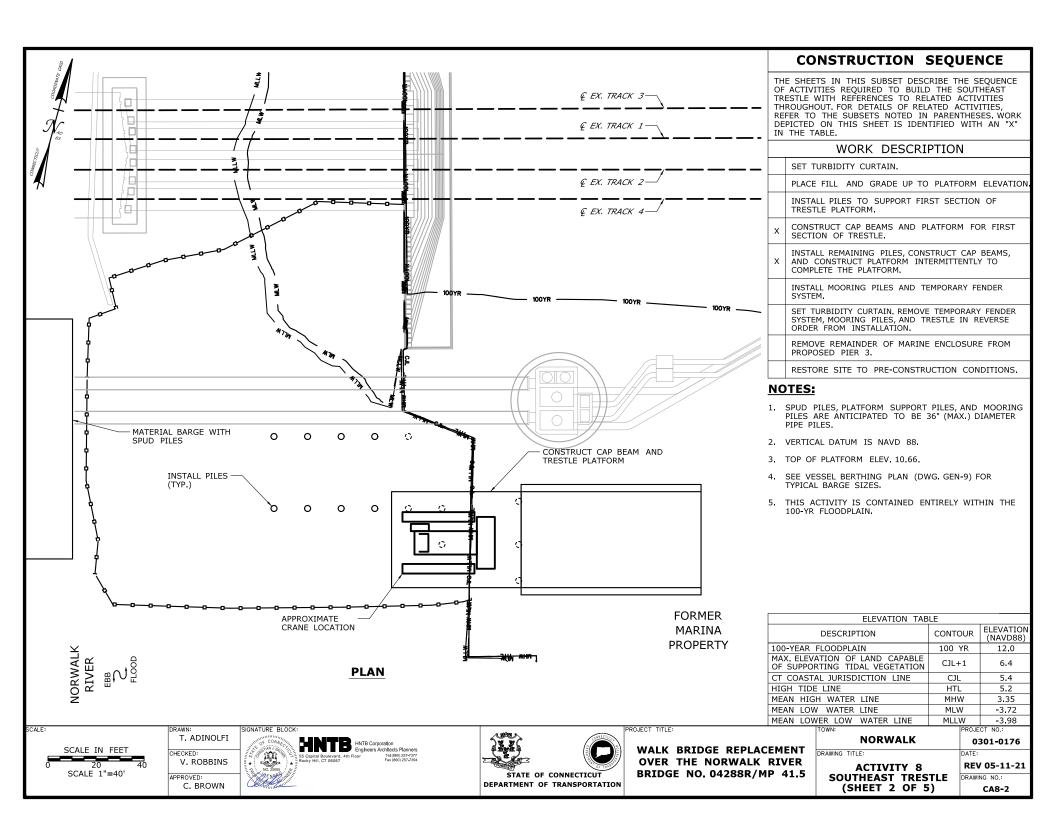
REV 6-24-20

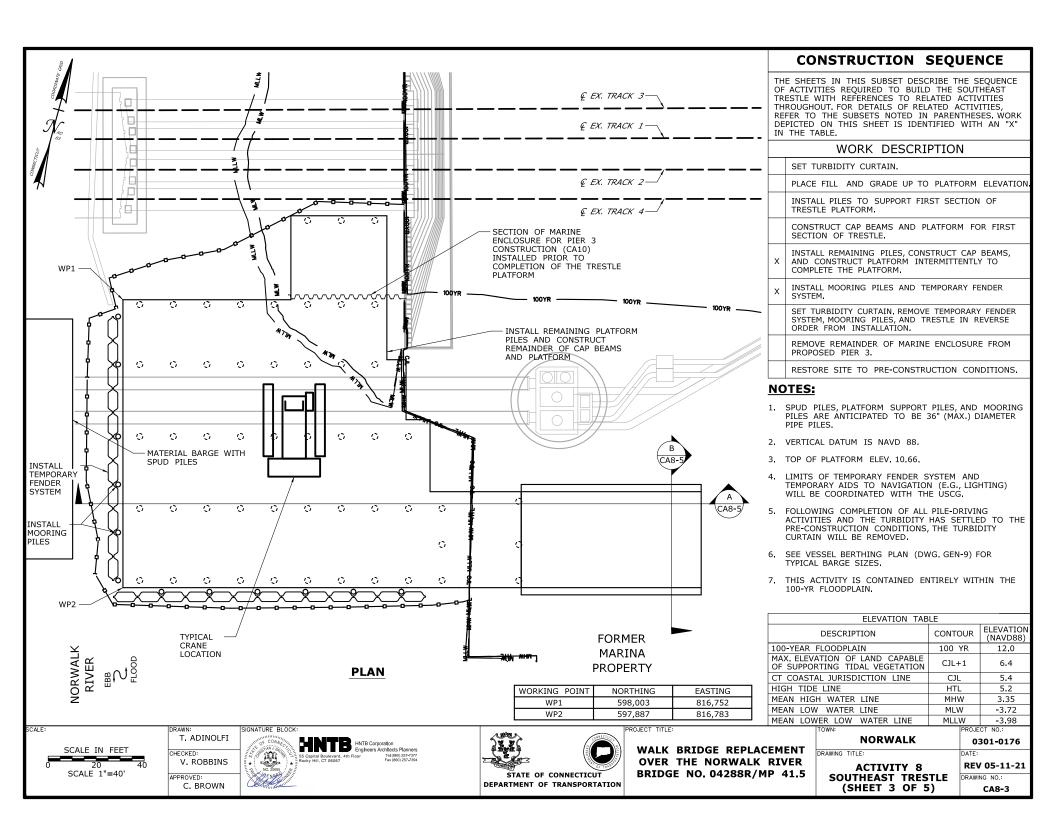
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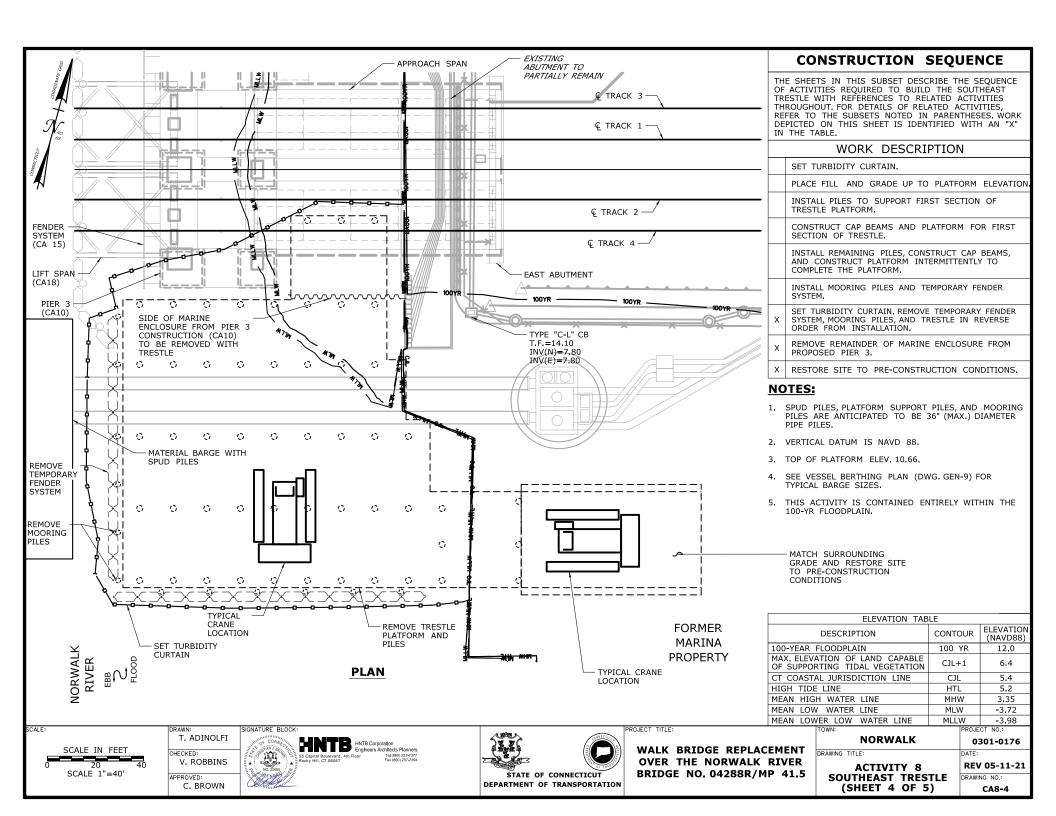
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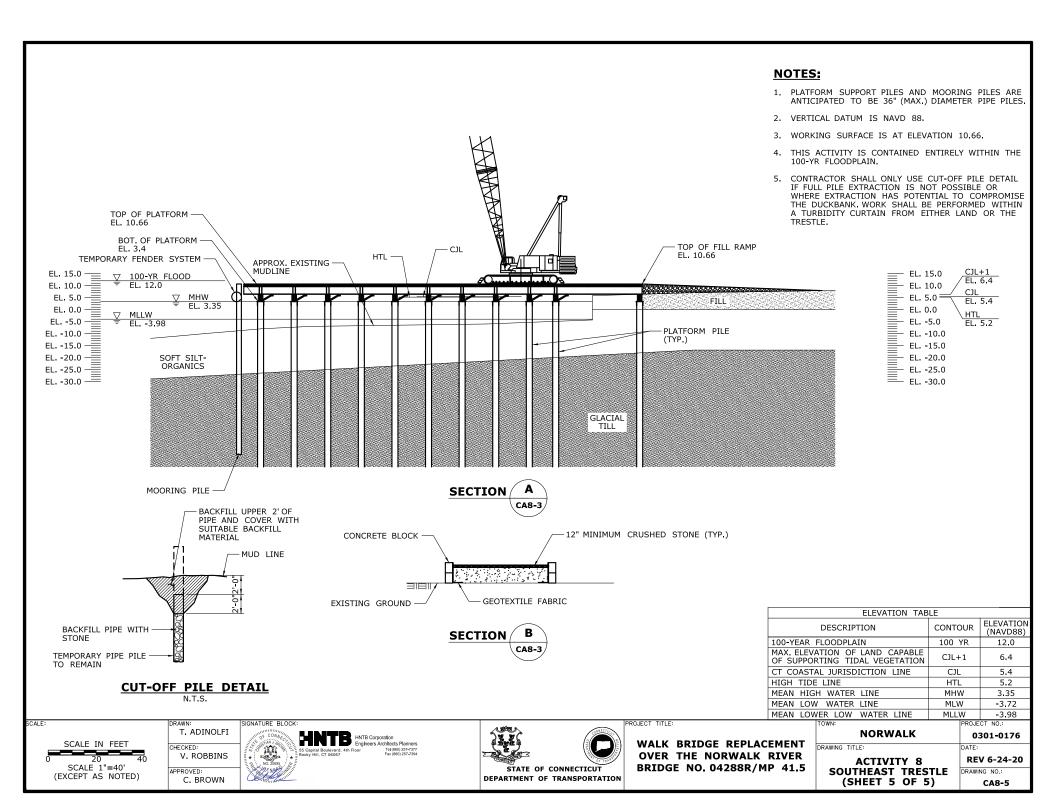
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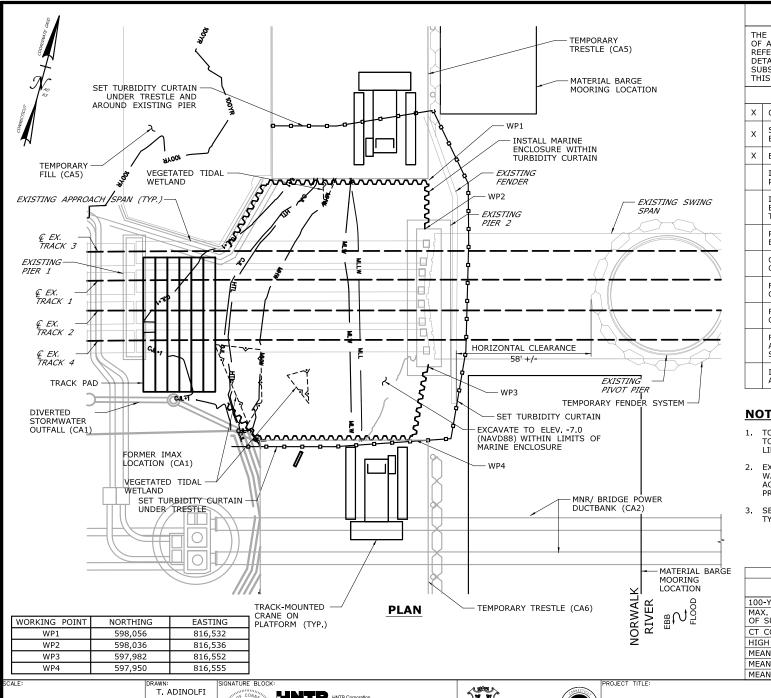












THE SHEETS IN THIS SUBSET DESCRIBE THE SEQUENCE OF ACTIVITIES REQUIRED TO BUILD PIER 2 WITH REFERENCES TO RELATED ACTIVITIES THROUGHOUT, FOR DETAILS OF RELATED ACTIVITIES, REFER TO THE SUBSETS NOTED IN PARENTHESES, WORK DEPICTED ON THIS SHEET IS IDENTIFIED WITH AN "X" IN THE TABLE.

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,

FORM, SET REINFORCING STEEL AND ANCHOR BOLTS, AND POUR THE REMAINING PIER CONCRETE ABOVE THE

INSTALL SUBMARINE CABLES AND TERMINAL BOXES (SEE ACTIVITY 2).

NOTES:

- TOP OF MARINE ENCLOSURE WILL BE INSTALLED TO ELEV. 6.2 (MIN.), 1 FOOT ABOVE HIGH TIDE
- 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)	
100-YEAR FLOODPLAIN	100 YR	10.0/12.0	
MAX. ELEVATION OF LAND CAPABLE OF SUPPORTING TIDAL VEGETATION	CJL+1	6.4	
CT COASTAL JURISDICTION LINE	CJL	5.4	
HIGH TIDE LINE	HTL	5.2	
MEAN HIGH WATER LINE	MHW	3.35	
MEAN LOW WATER LINE	MLW	-3.72	
MEAN LOWER LOW WATER LINE	MLLW	-3.98	
TOWN: PROJECT NO.:			

SCALE IN FEET

CHECKED: V. ROBBINS SCALE 1"=40' APPROVED

C. BROWN

HNTB Corporation Engineers Architects Planners



STATE OF CONNECTICUT

DEPARTMENT OF TRANSPORTATION

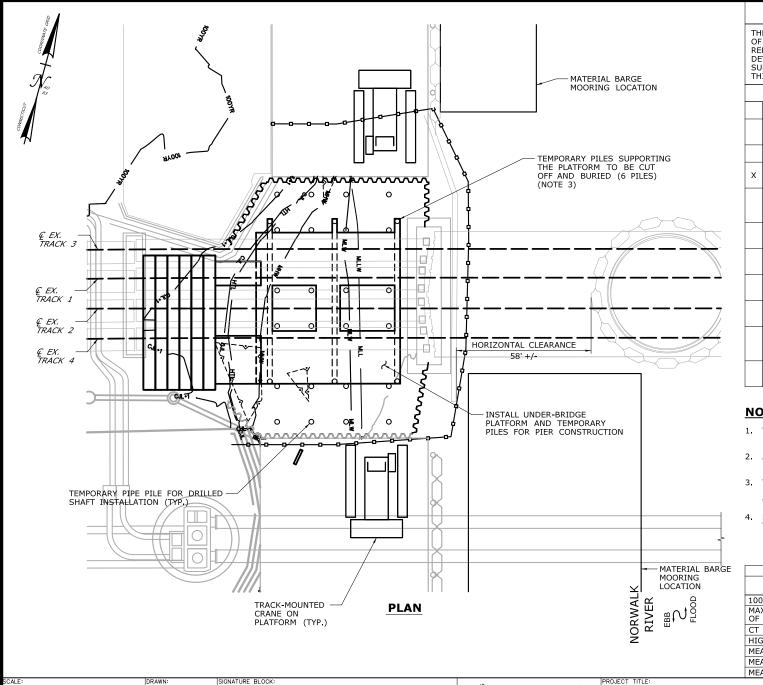
WALK BRIDGE REPLACEMENT **OVER THE NORWALK RIVER** BRIDGE NO. 04288R/MP 41.5

NORWALK DRAWING TITLE:

0301-0176

REV 05-11-21 ACTIVITY 9 PIER 2 CONSTRUCTION DRAWING NO.: (SHEET 1 OF 7)

CA9-1



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.

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,

FORM, SET REINFORCING STEEL AND ANCHOR BOLTS, AND POUR THE REMAINING PIER CONCRETE ABOVE THE

INSTALL SUBMARINE CABLES AND TERMINAL BOXES (SEE ACTIVITY 2).

NOTES:

- TEMPORARY PILES ARE ANTICIPATED TO BE 36" (MAX.) DIAMETER PIPE PILES.
- 2. ALL TEMPORARY PILES TO BE REMOVED, EXCEPT AS NOTED.
- TEMPORARY PILES TO BE BACKFILLED WITH STONE FOLLOWING INSTALLATION. SEE CUT-OFF PILE DETAIL ON DWG CA9-7.
- SEE VESSEL BERTHING PLAN (DWG, GEN-9) FOR TYPICAL BARGE SIZES.

ELEVATION TABLE			
DESCRIPTION	CONTOUR	ELEVATION (NAVD88)	
100-YEAR FLOODPLAIN	100 YR	10.0/12.0	
MAX. ELEVATION OF LAND CAPABLE OF SUPPORTING TIDAL VEGETATION	CJL+1	6.4	
CT COASTAL JURISDICTION LINE	CJL	5.4	
HIGH TIDE LINE	HTL	5.2	
MEAN HIGH WATER LINE	MHW	3.35	
MEAN LOW WATER LINE	MLW	-3.72	
MEAN LOWER LOW WATER LINE	MLLW	-3.98	
TOWN: PROJECT NO.:			

SCALE IN FEET SCALE 1"=40'

T. ADINOLFI CHECKED: V. ROBBINS APPROVED:

C. BROWN



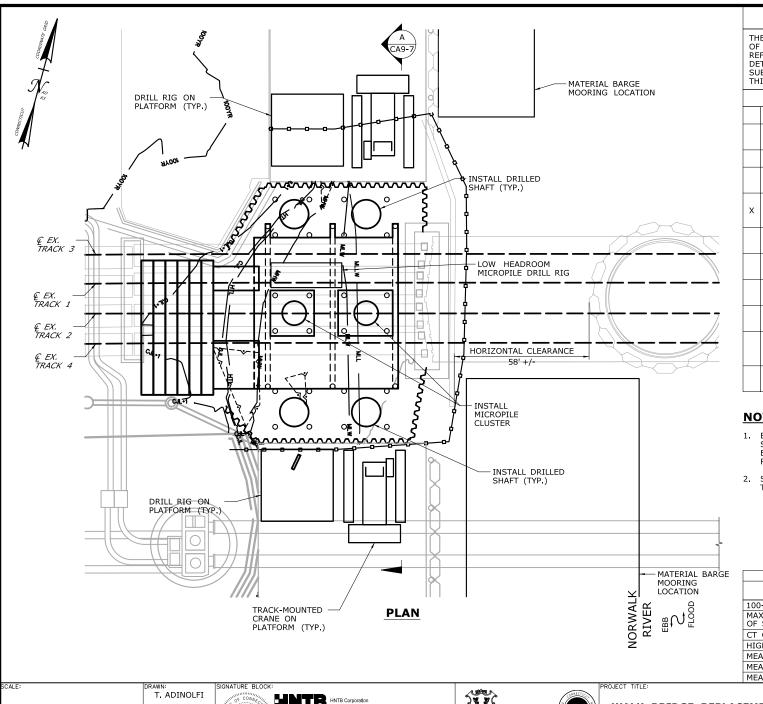


WALK BRIDGE REPLACEMENT **OVER THE NORWALK RIVER** BRIDGE NO. 04288R/MP 41.5

NORWALK DRAWING TITLE:

0301-0176

ACTIVITY 9 PIER 2 CONSTRUCTION DRAWING NO.: (SHEET 2 OF 7)



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,

FORM, SET REINFORCING STEEL AND ANCHOR BOLTS, AND POUR THE REMAINING PIER CONCRETE ABOVE THE

INSTALL SUBMARINE CABLES AND TERMINAL BOXES (SEE ACTIVITY 2).

NOTES:

- 1. EXCAVATED MATERIAL AND DEWATERED WASTEWATERS SHALL BE MANAGED IN ACCORDANCE WITH THE ENVIRONMENTAL SPECIAL PROVISIONS AND CTDEEP REQUIREMENTS.
- SEE VESSEL BERTHING PLAN (DWG, GEN-9) FOR TYPICAL BARGE SIZES.

ELEVATION TABLE			
DESCRIPTION	CONTOUR	ELEVATION (NAVD88)	
100-YEAR FLOODPLAIN	100 YR	10.0/12.0	
MAX. ELEVATION OF LAND CAPABLE OF SUPPORTING TIDAL VEGETATION	CJL+1	6.4	
CT COASTAL JURISDICTION LINE	CJL	5.4	
HIGH TIDE LINE	HTL	5.2	
MEAN HIGH WATER LINE	MHW	3.35	
MEAN LOW WATER LINE	MLW	-3.72	
MEAN LOWER LOW WATER LINE	MLLW	-3.98	
TOWN: PROJECT NO.:			

SCALE IN FEET SCALE 1"=40'

CHECKED: V. ROBBINS APPROVED:

C. BROWN



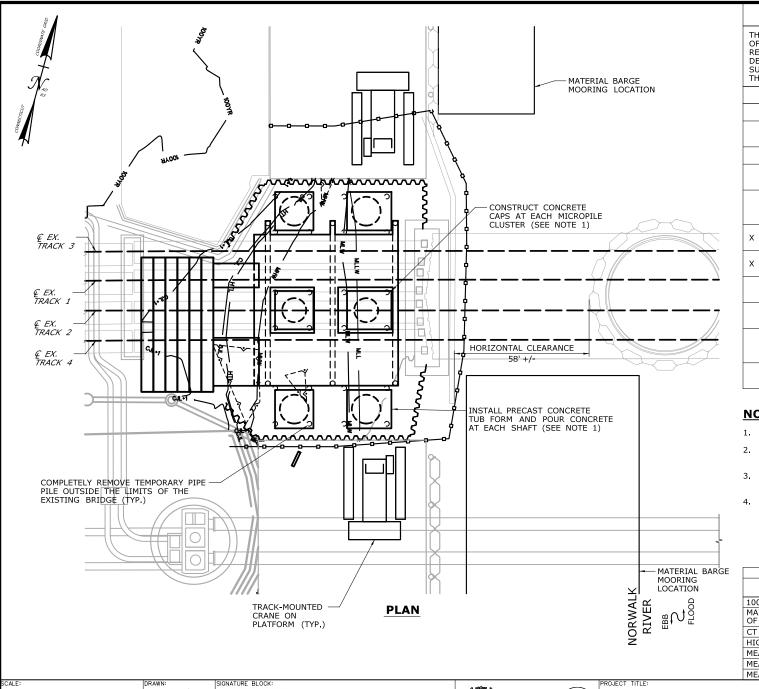
STATE OF CONNECTICUT DEPARTMENT OF TRANSPORTATION

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

NORWALK DRAWING TITLE:

0301-0176

ACTIVITY 9 PIER 2 CONSTRUCTION DRAWING NO.: (SHEET 3 OF 7)



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,

FORM, SET REINFORCING STEEL AND ANCHOR BOLTS, AND POUR THE REMAINING PIER CONCRETE ABOVE THE

INSTALL SUBMARINE CABLES AND TERMINAL BOXES (SEE ACTIVITY 2).

NOTES:

- 1. BOTTOM OF CAP ELEVATION IS EL. -5.0 (NAVD88).
- 2. A CONTAINMENT SHIELD WILL BE USED TO ELIMINATE SPILLAGE OF CONCRETE INTO THE WATER.
- TEMPORARY PILES ARE ANTICIPATED TO BE 36" (MAX.) DIAMETER PIPE PILES.
- 4. SEE VESSEL BERTHING PLAN (DWG. GEN-9) FOR TYPICAL BARGE SIZES.

ELEVATION TABLE				
	DESCRIPTION	CONTOUR	ELEVATION (NAVD88)	
	100-YEAR FLOODPLAIN	100 YR	10.0/12.0	
	MAX. ELEVATION OF LAND CAPABLE OF SUPPORTING TIDAL VEGETATION	CJL+1	6.4	
	CT COASTAL JURISDICTION LINE	CJL	5.4	
	HIGH TIDE LINE	HTL	5.2	
	MEAN HIGH WATER LINE	MHW	3.35	
	MEAN LOW WATER LINE	MLW	-3.72	
	MEAN LOWER LOW WATER LINE	MLLW	-3.98	
	TOWN: PROJECT NO.:			

SCALE IN FEET SCALE 1"=40'

T. ADINOLFI CHECKED: V. ROBBINS APPROVED:

C. BROWN



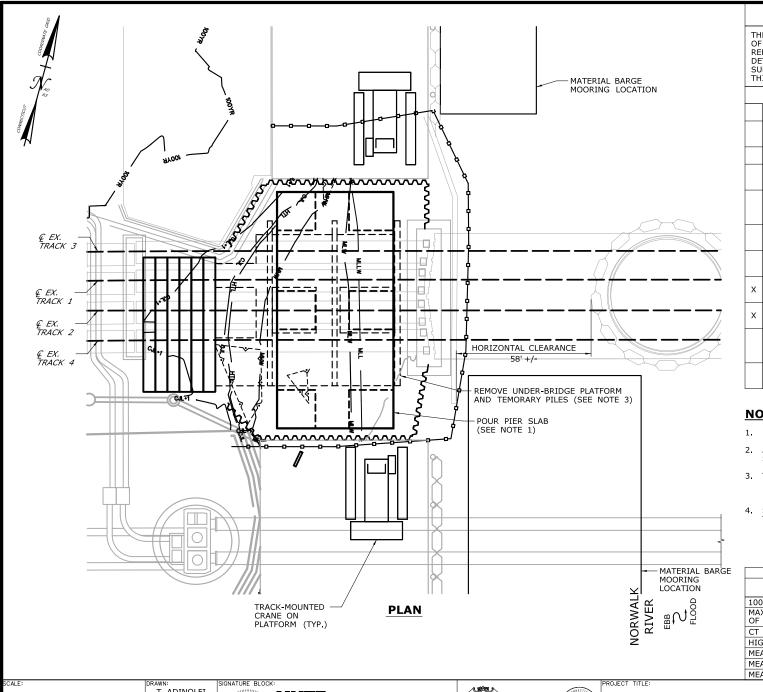


WALK BRIDGE REPLACEMENT **OVER THE NORWALK RIVER** BRIDGE NO. 04288R/MP 41.5

NORWALK DRAWING TITLE:

0301-0176

ACTIVITY 9 PIER 2 CONSTRUCTION DRAWING NO.: (SHEET 4 OF 7)



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,

FORM, SET REINFORCING STEEL AND ANCHOR BOLTS, AND POUR THE REMAINING PIER CONCRETE ABOVE THE

INSTALL SUBMARINE CABLES AND TERMINAL BOXES (SEE ACTIVITY 2).

NOTES:

- 1. BOTTOM OF SLAB ELEVATION IS EL. 10.0 (NAVD)
- 2. A CONTAINMENT SHIELD WILL BE USED TO ELIMINATE SPILLAGE OF CONCRETE INTO THE WATER.
- 3. TEMPORARY PILES SHALL BE CUT OFF 2 FEET BELOW MUDLINE, SEE CUT-OFF PILE DETAIL ON DWG NO CA9-7
- 4. SEE VESSEL BERTHING PLAN (DWG. GEN-9) FOR TYPICAL BARGE SIZES.

ELEVATION TABLE				
	DESCRIPTION	CONTOUR	ELEVATION (NAVD88)	
	100-YEAR FLOODPLAIN	100 YR	10.0/12.0	
	MAX. ELEVATION OF LAND CAPABLE OF SUPPORTING TIDAL VEGETATION	CJL+1	6.4	
	CT COASTAL JURISDICTION LINE	CJL	5.4	
	HIGH TIDE LINE	HTL	5.2	
	MEAN HIGH WATER LINE	MHW	3.35	
	MEAN LOW WATER LINE	MLW	-3.72	
	MEAN LOWER LOW WATER LINE	MLLW	-3.98	
	TOWN: PROJECT NO.:			

SCALE IN FEET SCALE 1"=40'

T. ADINOLFI CHECKED: V. ROBBINS APPROVED:

C. BROWN



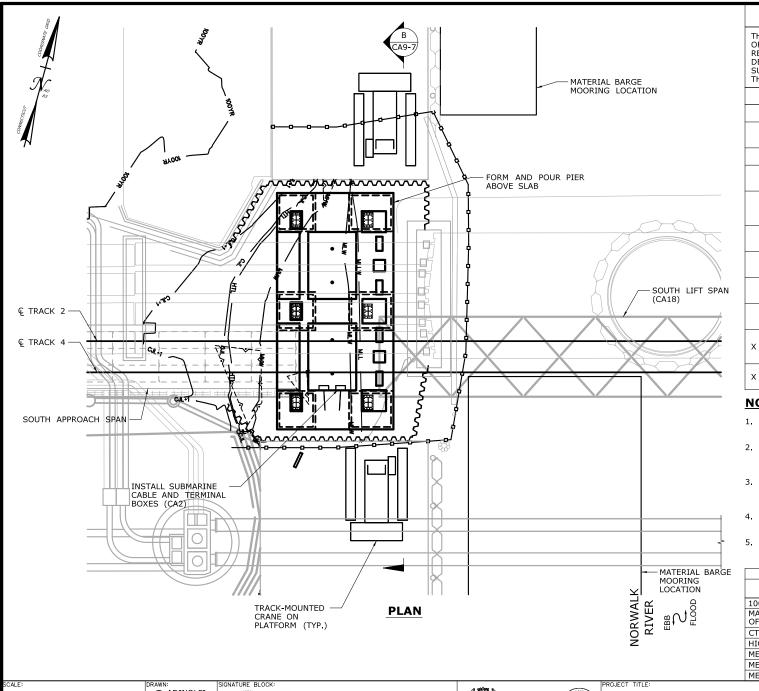
STATE OF CONNECTICUT

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

NORWALK DRAWING TITLE:

0301-0176

ACTIVITY 9 PIER 2 CONSTRUCTION DRAWING NO.: (SHEET 5 OF 7)



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.

- FORM, SET REINFORCING STEEL AND ANCHOR BOLTS, AND POUR THE REMAINING PIER CONCRETE ABOVE THE
- INSTALL SUBMARINE CABLES AND TERMINAL BOXES (SEE ACTIVITY 2).

NOTES:

- A CONTAINMENT SHIELD WILL BE USED TO ELIMINATE SPILLAGE OF CONCRETE INTO THE WATER.
- 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 NEEDED TO INSTALL BRIDGE POWER AND CONTROL
- 4. SEE VESSEL BERTHING PLAN (DWG. GEN-9) FOR TYPICAL BARGE SIZES.
- THE MARINE ENCLOSURE WILL BE USED DURING EXISTING PIER REMOVAL AS PART OF ACTIVITY 14.

ELEVATION TABLE				
	DESCRIPTION	CONTOUR	ELEVATION (NAVD88)	
	100-YEAR FLOODPLAIN	100 YR	10.0/12.0	
	MAX. ELEVATION OF LAND CAPABLE OF SUPPORTING TIDAL VEGETATION	CJL+1	6.4	
	CT COASTAL JURISDICTION LINE	CJL	5.4	
	HIGH TIDE LINE	HTL	5.2	
	MEAN HIGH WATER LINE	MHW	3.35	
	MEAN LOW WATER LINE	MLW	-3.72	
	MEAN LOWER LOW WATER LINE	MLLW	-3.98	
	TOWN: PROJECT NO.:			

SCALE IN FEET SCALE 1"=40'

T. ADINOLFI CHECKED: V. ROBBINS APPROVED:

C. BROWN



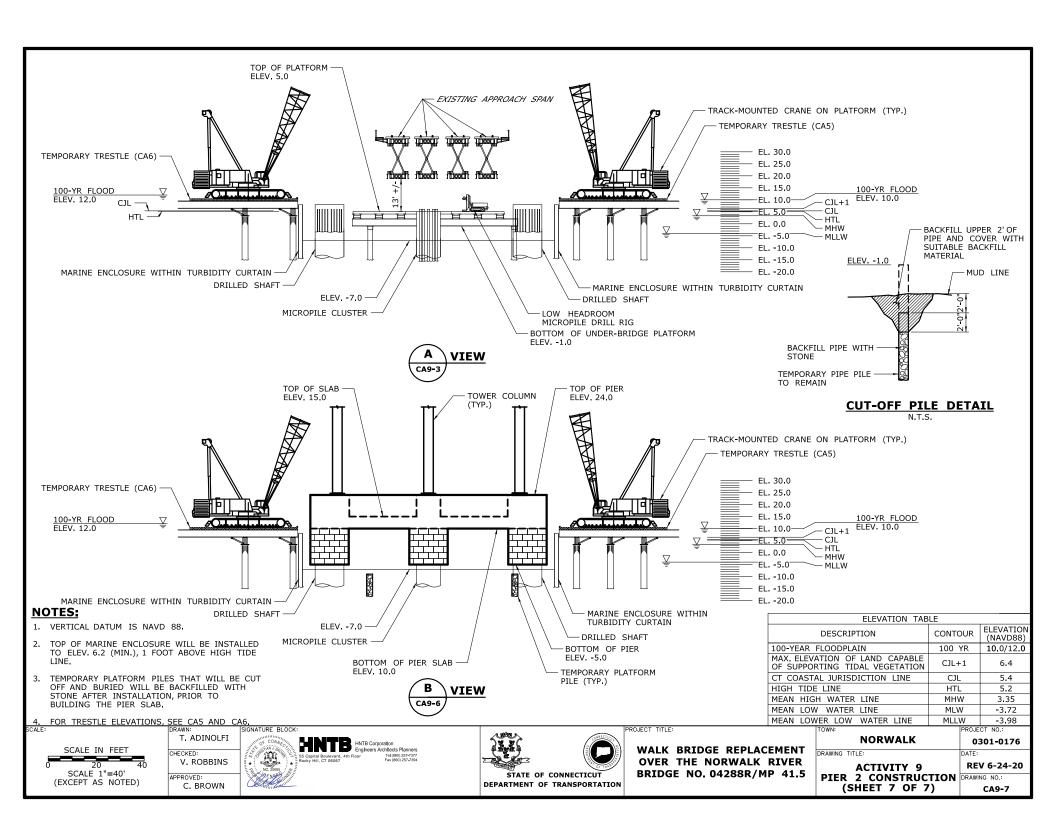


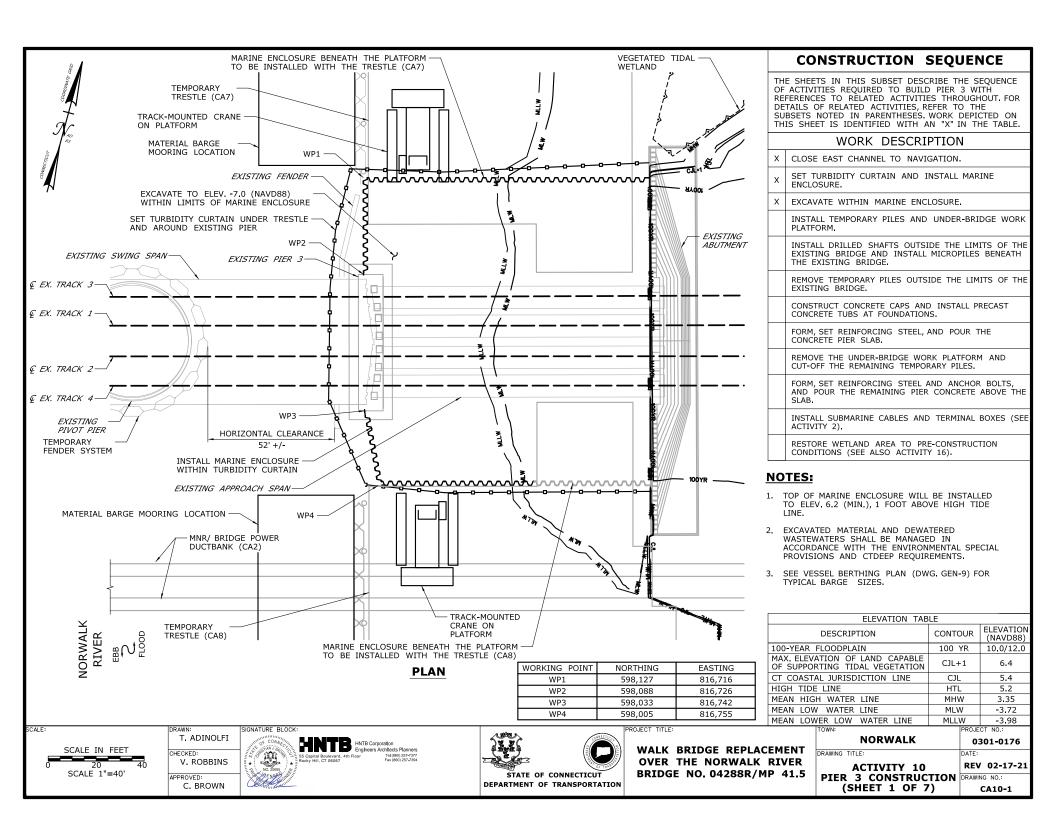
WALK BRIDGE REPLACEMENT **OVER THE NORWALK RIVER** BRIDGE NO. 04288R/MP 41.5

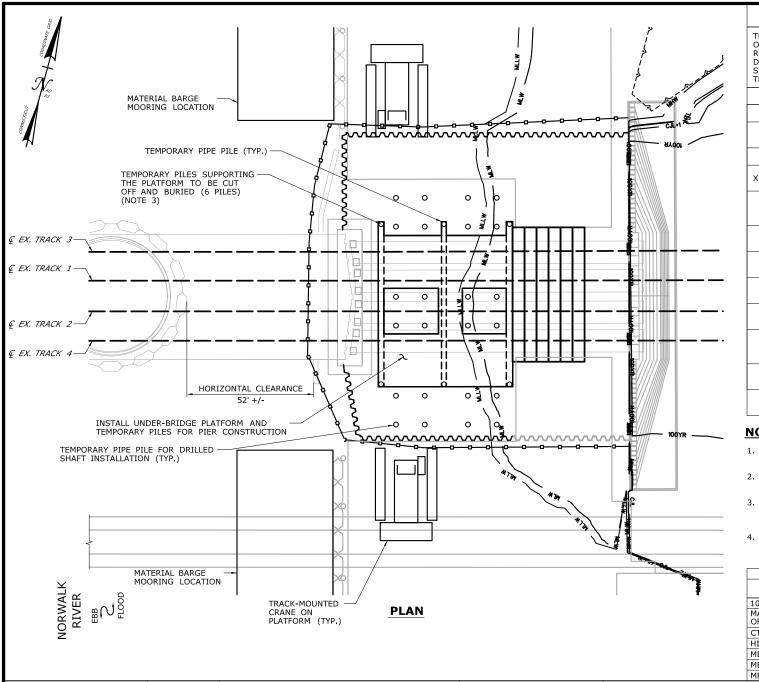
NORWALK DRAWING TITLE:

0301-0176

ACTIVITY 9 PIER 2 CONSTRUCTION DRAWING NO.: (SHEET 6 OF 7)







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,

FORM, SET REINFORCING STEEL AND ANCHOR BOLTS, AND POUR THE REMAINING PIER CONCRETE ABOVE THE

INSTALL SUBMARINE CABLES AND TERMINAL BOXES (SEE ACTIVITY 2).

RESTORE WETLAND AREA TO PRE-CONSTRUCTION CONDITIONS (SEE ALSO ACTIVITY 16).

NOTES:

- 1. TEMPORARY PILES ARE ANTICIPATED TO BE 36" (MAX.) DIAMETER PIPE PILES.
- ALL TEMPORARY PILES TO BE REMOVED, EXCEPT AS
- 3. TEMPORARY PILES TO BE BACKFILLED WITH STONE FOLLOWING INSTALLATION. SEE CUT-OFF PILE DETAIL ON DWG CA10-7.
- 4. SEE VESSEL BERTHING PLAN (DWG. GEN-9) FOR TYPICAL BARGE SIZES.

ELEVATION TABLE			
DESCRIPTION	CONTOUR	ELEVATION (NAVD88)	
100-YEAR FLOODPLAIN	100 YR	10.0/12.0	
MAX. ELEVATION OF LAND CAPABLE OF SUPPORTING TIDAL VEGETATION	CJL+1	6.4	
CT COASTAL JURISDICTION LINE	CJL	5.4	
HIGH TIDE LINE	HTL	5.2	
MEAN HIGH WATER LINE	MHW	3.35	
MEAN LOW WATER LINE	MLW	-3.72	
MEAN LOWER LOW WATER LINE	MLLW	-3.98	
TOWN: PROJECT NO.:			

SCALE IN FEET SCALE 1"=40'

T. ADINOLFI CHECKED: V. ROBBINS APPROVED:

C. BROWN



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

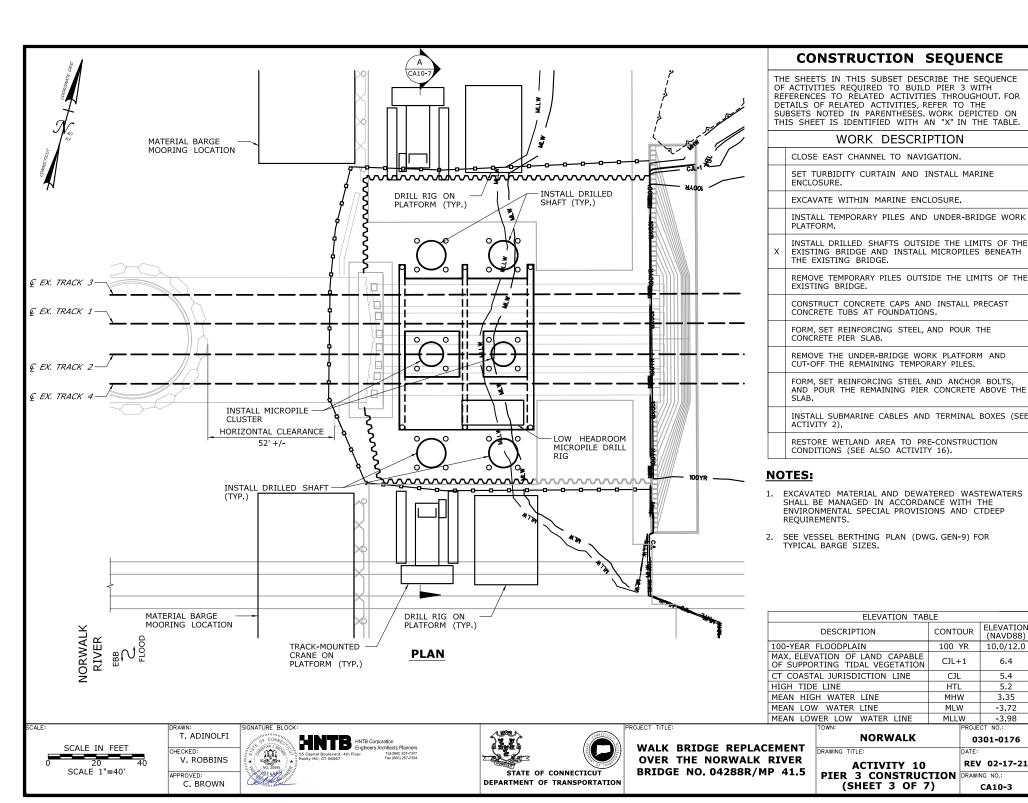
NORWALK DRAWING TITLE:

REV 6-24-20

ACTIVITY 10 PIER 3 CONSTRUCTION DRAWING NO.: (SHEET 2 OF 7)

CA10-2

0301-0176



ELEVATION (NAVD88)

10.0/12.0

6.4

5.4

5.2

3.35

-3.72

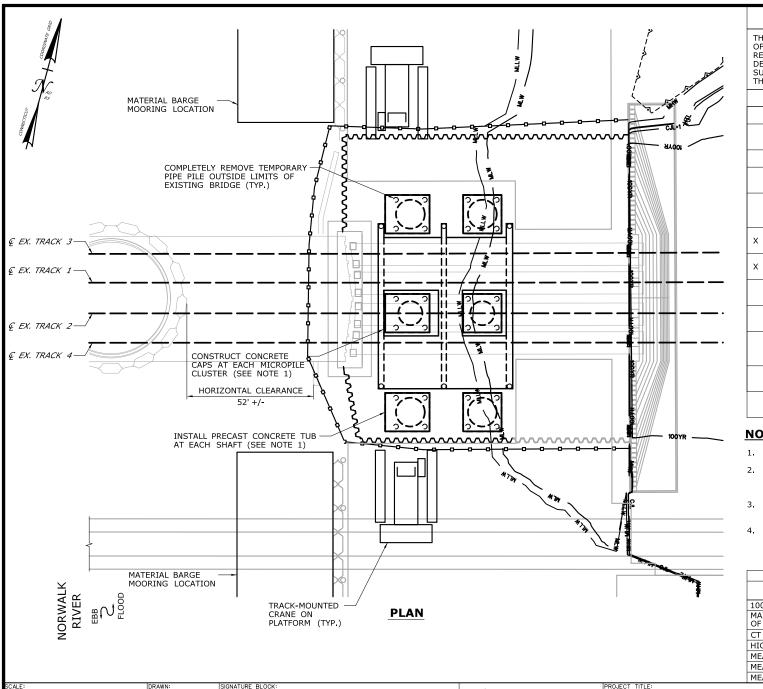
-3.98

0301-0176

REV 02-17-21

CA10-3

CJL



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.

FORM, SET REINFORCING STEEL AND ANCHOR BOLTS, AND POUR THE REMAINING PIER CONCRETE ABOVE THE

INSTALL SUBMARINE CABLES AND TERMINAL BOXES (SEE ACTIVITY 2).

RESTORE WETLAND AREA TO PRE-CONSTRUCTION CONDITIONS (SEE ALSO ACTIVITY 16).

NOTES:

- 1. BOTTOM OF CAP ELEVATION IS EL. -5.0 (NAVD88).
- A CONTAINMENT SHIELD WILL BE USED TO ELIMINATE SPILLAGE OF CONCRETE INTO THE
- 3. TEMPORARY PILES ARE ANTICIPATED TO BE 36" (MAX.) DIAMETER PIPE PILES.
- SEE VESSEL BERTHING PLAN FOR TYPICAL BARGE

ELEVATION TABLE			
DESCRIPTION	CONTOUR	ELEVATION (NAVD88)	
100-YEAR FLOODPLAIN	100 YR	10.0/12.0	
MAX. ELEVATION OF LAND CAPABLE OF SUPPORTING TIDAL VEGETATION	CJL+1	6.4	
CT COASTAL JURISDICTION LINE	CJL	5.4	
HIGH TIDE LINE	HTL	5.2	
MEAN HIGH WATER LINE	MHW	3.35	
MEAN LOW WATER LINE	MLW	-3.72	
MEAN LOWER LOW WATER LINE	MLLW	-3.98	
TOWN: PROJECT NO.:			

SCALE IN FEET SCALE 1"=40'

T. ADINOLFI CHECKED: V. ROBBINS APPROVED:

C. BROWN



STATE OF CONNECTICUT

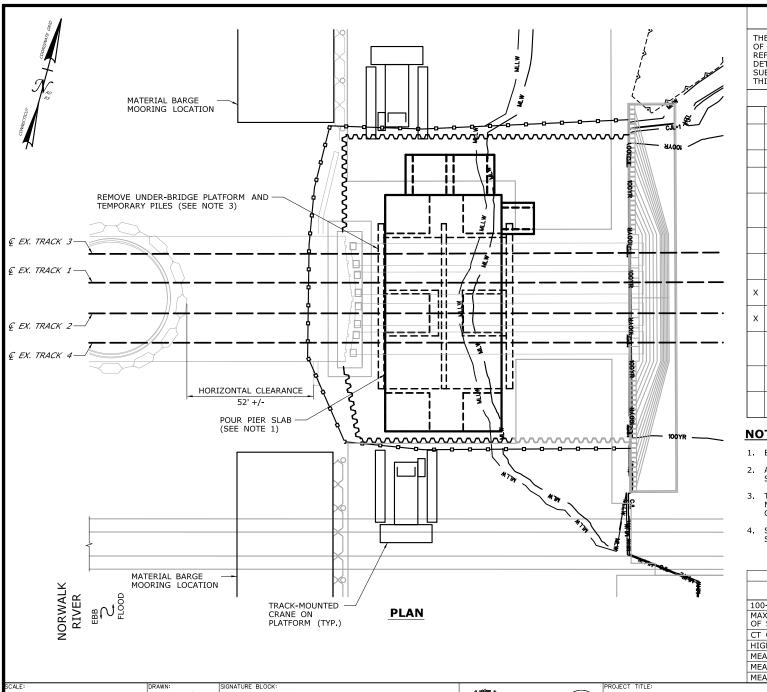
WALK BRIDGE REPLACEMENT **OVER THE NORWALK RIVER** BRIDGE NO. 04288R/MP 41.5

NORWALK DRAWING TITLE:

0301-0176

ACTIVITY 10 PIER 3 CONSTRUCTION DRAWING NO.: (SHEET 4 OF 7)

REV 6-24-20 CA10-4



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.

FORM, SET REINFORCING STEEL AND ANCHOR BOLTS, AND POUR THE REMAINING PIER CONCRETE ABOVE THE

INSTALL SUBMARINE CABLES AND TERMINAL BOXES (SEE ACTIVITY 2).

RESTORE WETLAND AREA TO PRE-CONSTRUCTION CONDITIONS (SEE ALSO ACTIVITY 16).

NOTES:

- 1. BOTTOM OF SLAB ELEVATION IS EL. 10.0 (NAVD)
- A CONTAINMENT SHIELD WILL BE USED TO ELIMINATE SPILLAGE OF CONCRETE INTO THE WATER.
- 3. TEMPORARY PILES SHALL BE CUT OFF 2 FEET BELOW MUDLINE SEE CUT-OFF PILE DETAIL ON DWG NO. CA10-7.
- SEE VESSEL BERTHING PLAN FOR TYPICAL BARGE SIZES.

	ELEVATION TAB			
	DESCRIPTION	CONTOUR	ELEVATION (NAVD88)	
[100-YEAR FLOODPLAIN	100 YR	10.0/12.0	
	MAX. ELEVATION OF LAND CAPABLE OF SUPPORTING TIDAL VEGETATION	CJL+1	6.4	
ſ	CT COASTAL JURISDICTION LINE	CJL	5.4	
ſ	HIGH TIDE LINE	HTL	5.2	
	MEAN HIGH WATER LINE	MHW	3.35	
[MEAN LOW WATER LINE	MLW	-3.72	
	MEAN LOWER LOW WATER LINE	MLLW	-3.98	
	TOWN: PROJECT NO.:			

SCALE IN FEET SCALE 1"=40'

T. ADINOLFI CHECKED: V. ROBBINS APPROVED:

C. BROWN



DEPARTMENT OF TRANSPORTATION

STATE OF CONNECTICUT

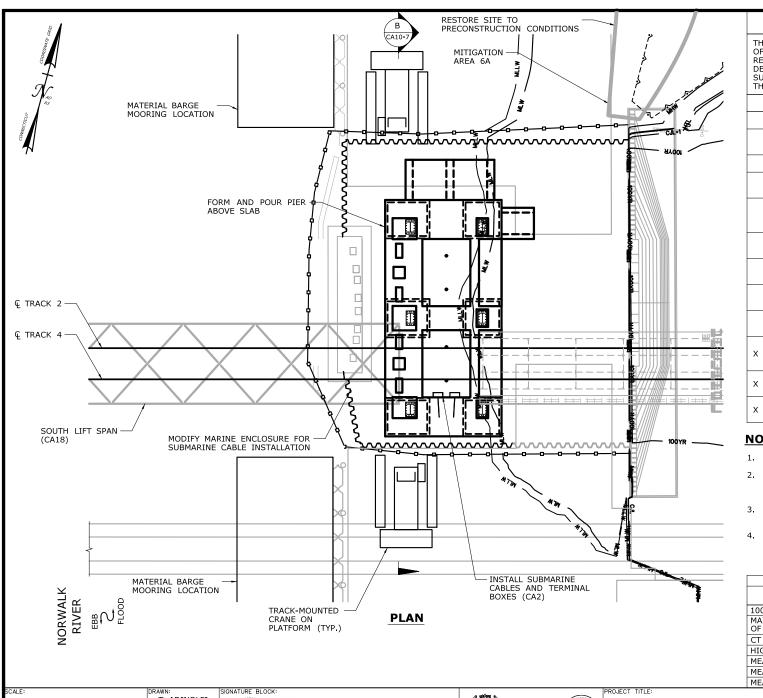
WALK BRIDGE REPLACEMENT **OVER THE NORWALK RIVER** BRIDGE NO. 04288R/MP 41.5

NORWALK DRAWING TITLE:

0301-0176

ACTIVITY 10 PIER 3 CONSTRUCTION DRAWING NO.: (SHEET 5 OF 7)

REV 6-24-20 CA10-5



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,

- FORM, SET REINFORCING STEEL AND ANCHOR BOLTS, AND POUR THE REMAINING PIER CONCRETE ABOVE THE
- INSTALL SUBMARINE CABLES AND TERMINAL BOXES (SEE ACTIVITY 2).
- RESTORE WETLAND AREA TO PRE-CONSTRUCTION CONDITIONS (SEE ALSO ACTIVITY 16).

NOTES:

- 1. SEE NOTES 2 AND 4 ON DWG NO CA10-5.
- 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.
- THE MARINE ENCLOSURE WILL BE USED DURING EXISTING PIER REMOVAL AS PART OF ACTIVITY 14.

ELEVATION TABLE		
DESCRIPTION	CONTOUR	ELEVATION (NAVD88)
100-YEAR FLOODPLAIN	100 YR	10.0/12.0
MAX. ELEVATION OF LAND CAPABLE OF SUPPORTING TIDAL VEGETATION	CJL+1	6.4
CT COASTAL JURISDICTION LINE	CJL	5.4
HIGH TIDE LINE	HTL	5.2
MEAN HIGH WATER LINE	MHW	3.35
MEAN LOW WATER LINE	MLW	-3.72
MEAN LOWER LOW WATER LINE	MLLW	-3.98
TOWN: PROJECT NO:		

SCALE IN FEET SCALE 1"=40'

T. ADINOLFI CHECKED: V. ROBBINS APPROVED:

C. BROWN



STATE OF CONNECTICUT

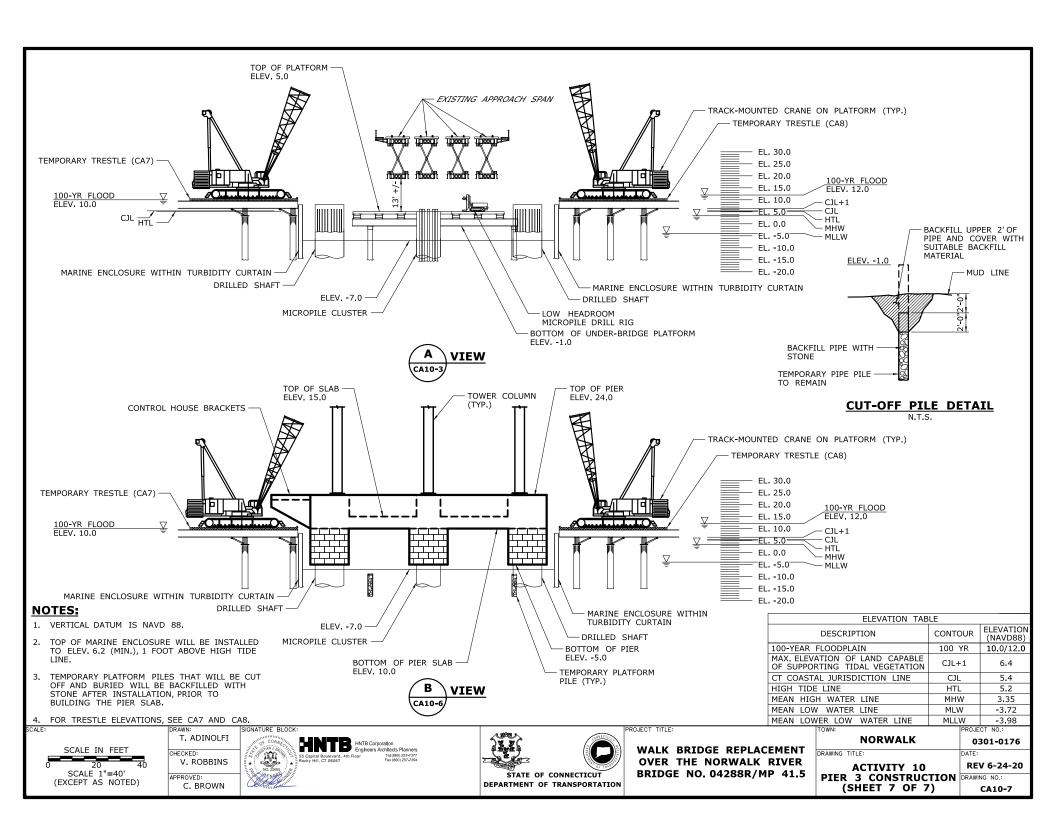
WALK BRIDGE REPLACEMENT **OVER THE NORWALK RIVER** BRIDGE NO. 04288R/MP 41.5

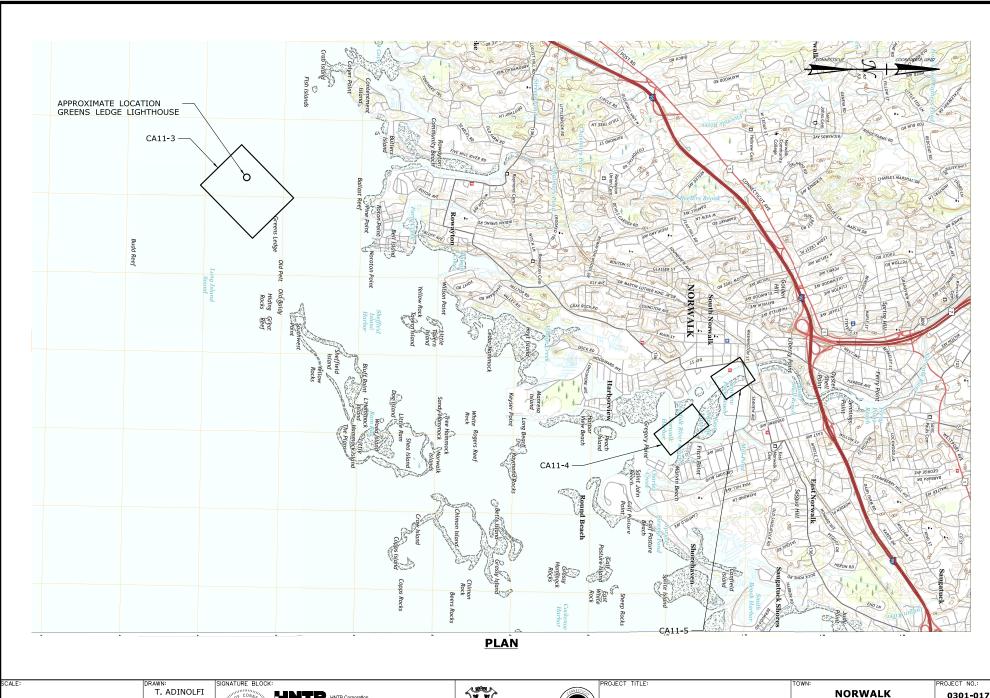
NORWALK DRAWING TITLE:

0301-0176

ACTIVITY 10 PIER 3 CONSTRUCTION DRAWING NO.: (SHEET 6 OF 7)

REV 6-24-20 CA10-6





SCALE 1'' = 4000'

V. ROBBINS APPROVED: C. BROWN

CHECKED:

HNTB Corporation
Engineers Architects Planners
Floor Tel (860) 257-7377
Fax (860) 257-7384

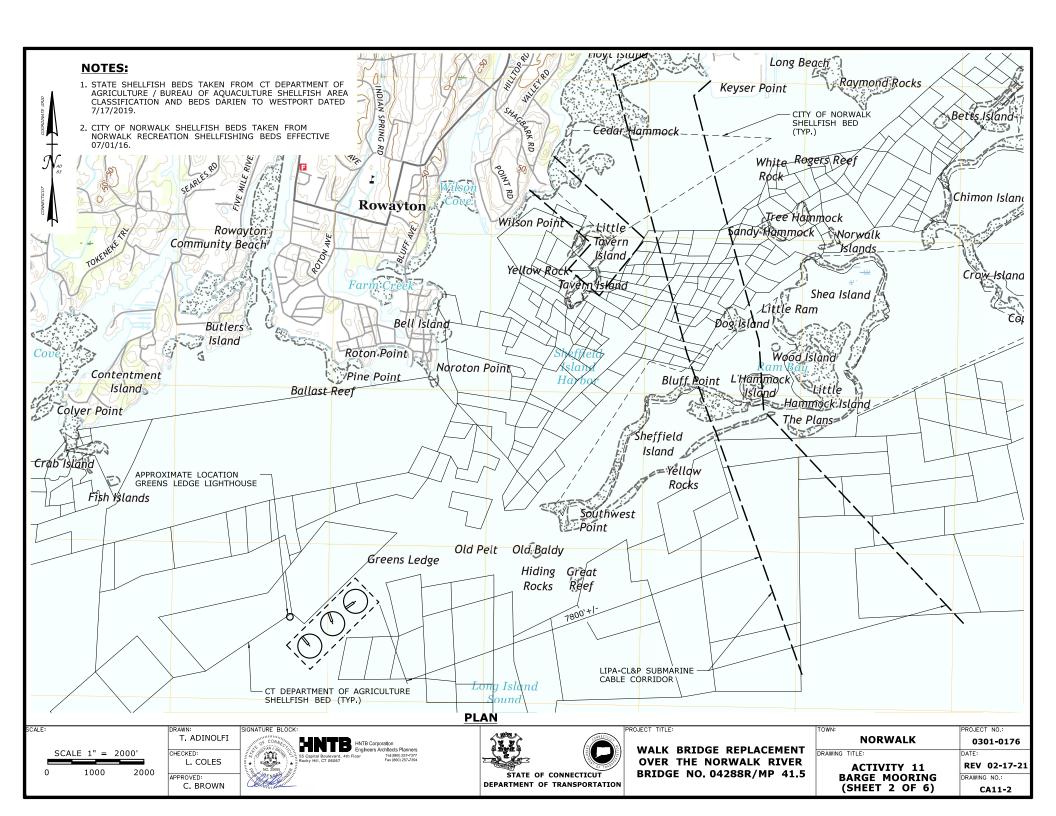


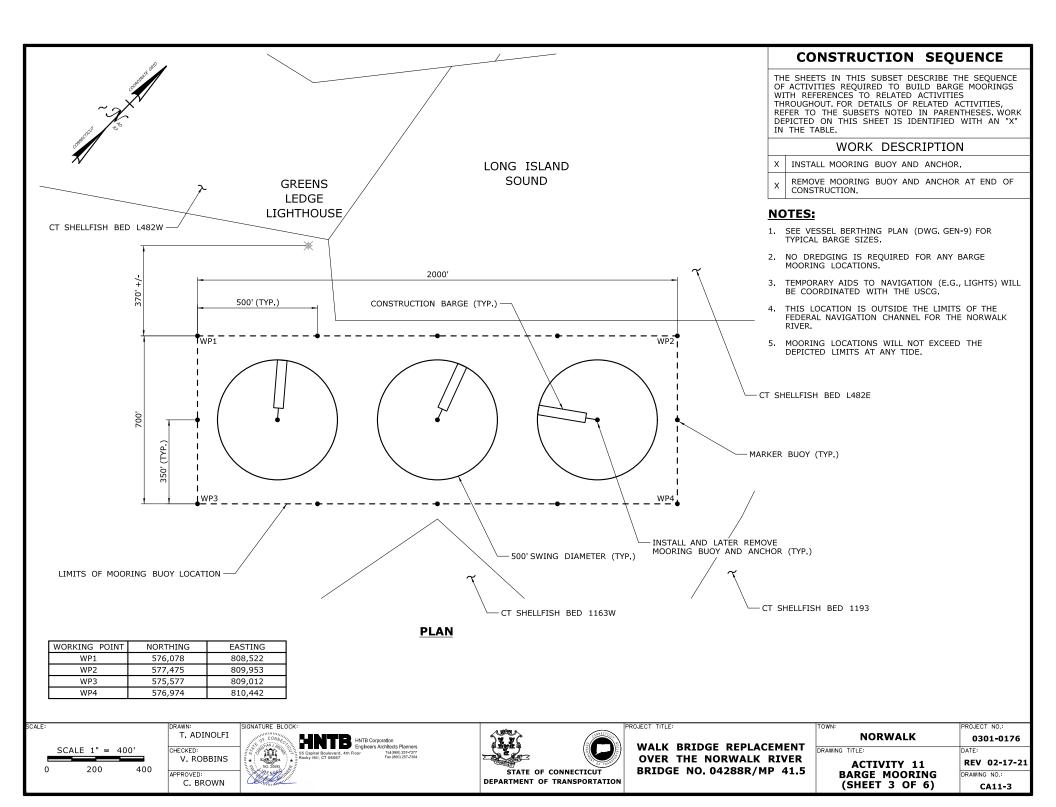
WALK BRIDGE REPLACEMENT OVER THE NORWALK RIVER BRIDGE NO. 04288R/MP 41.5

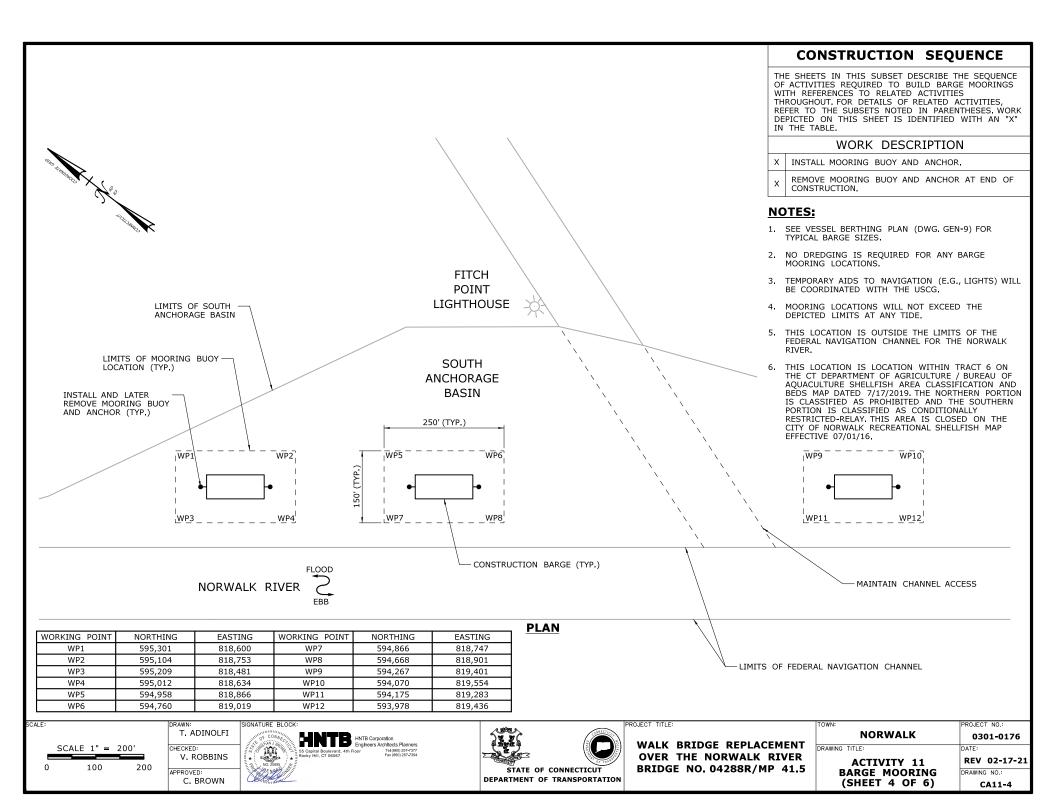
TOWN:	PROJECT NO.:
NORWALK	0301-01
DRAWING TITLE:	DATE:
ACTIVITY 11	REV 02-17

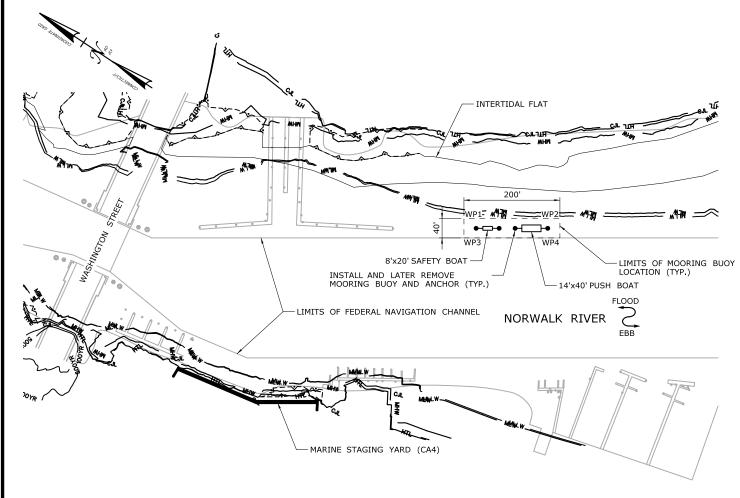
ACTIVITY 11 BARGE MOORING (SHEET 1 OF 6)

DRAWING NO.: CA11-1









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

- INSTALL MOORING BUOY AND ANCHOR.
- REMOVE MOORING BUOY AND ANCHOR AT END OF Χ CONSTRUCTION.

NOTES:

- 1. NO DREDGING IS REQUIRED FOR ANY BARGE MOORING LOCATIONS.
- TEMPORARY AIDS TO NAVIGATION (E.G., LIGHTS) WILL BE COORDINATED WITH THE USCG.
- 3. MOORING LOCATIONS WILL NOT EXCEED THE DEPICTED LIMITS AT ANY TIDE.
- THIS LOCATION WILL BE USED TO MOOR SMALLER WORK BOATS AND CONSTRUCTION VESSELS.
- THIS LOCATION IS OUTSIDE THE LIMITS FOR THE FEDERAL NAVIGATION CHANNEL FOR THE NORWALK

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 1" = 200' 100

T. ADINOLFI CHECKED: V. ROBBINS APPROVED:

C. BROWN





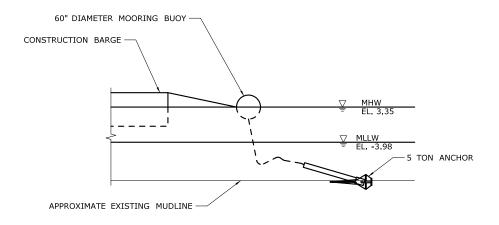
WALK BRIDGE REPLACEMENT **OVER THE NORWALK RIVER** BRIDGE NO. 04288R/MP 41.5

TOWN:	
	NORWALK
DRAWING	TITLE:

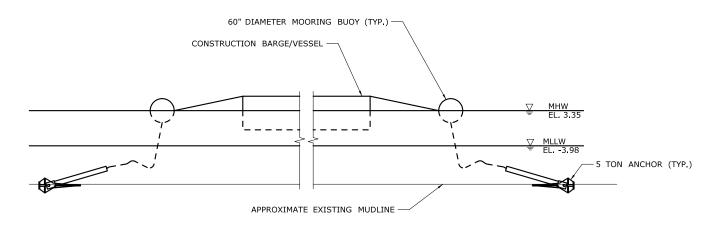
ACTIVITY 11 BARGE MOORING (SHEET 5 OF 6)

0301-0176 REV 02-17-21

DRAWING NO.: CA11-5



SWING MOORING DETAIL



FIXED MOORING DETAIL

ELEVATION TABLE		
DESCRIPTION	CONTOUR	ELEVATION (NAVD88)
100-YEAR FLOODPLAIN	100 YR	14.0
MAX. ELEVATION OF LAND CAPABLE OF SUPPORTING TIDAL VEGETATION	CJL+1	6.4
CT COASTAL JURISDICTION LINE	CJL	5.4
HIGH TIDE LINE	HTL	5.2
MEAN HIGH WATER LINE	MHW	3.35
MEAN LOW WATER LINE	MLW	-3.72
MEAN LOWER LOW WATER LINE	MLLW	-3.98
TOWN:	PROJE	CT NO.:

SCALE 1" = 20'

T. ADINOLFI V. ROBBINS APPROVED: C. BROWN

CHECKED:



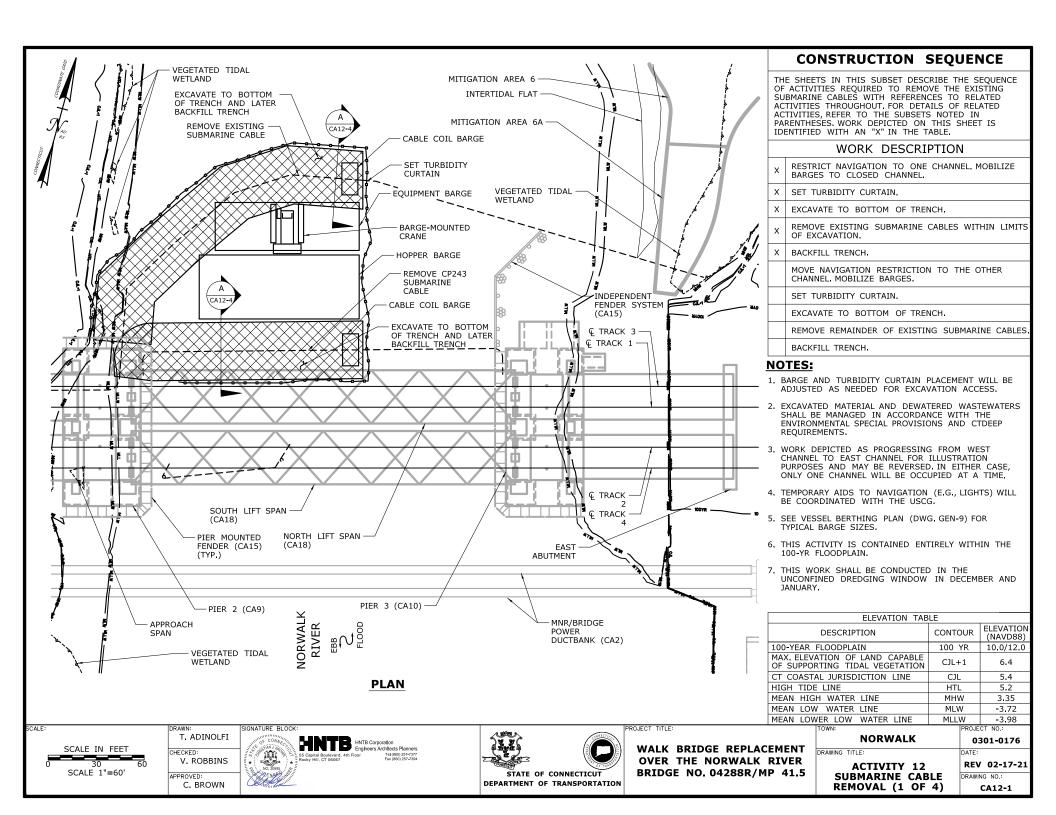
WALK BRIDGE REPLACEMENT **OVER THE NORWALK RIVER** BRIDGE NO. 04288R/MP 41.5

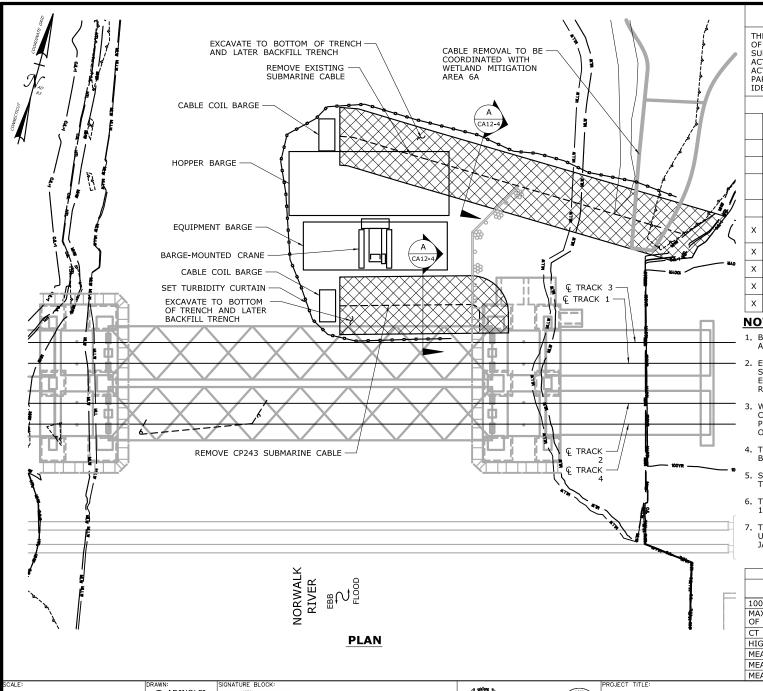
TOWN: NORWALK DRAWING TITLE:

ACTIVITY 11 BARGE MOORING (SHEET 6 OF 6)

REV 02-17-21 DRAWING NO.: CA11-6

0301-0176





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.

- 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 REOUIREMENTS.
- 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 TAB		
	DESCRIPTION	CONTOUR	ELEVATION (NAVD88)
	100-YEAR FLOODPLAIN	100 YR	10.0/12.0
	MAX. ELEVATION OF LAND CAPABLE OF SUPPORTING TIDAL VEGETATION	CJL+1	6.4
- [CT COASTAL JURISDICTION LINE	CJL	5.4
П	HIGH TIDE LINE	HTL	5.2
П	MEAN HIGH WATER LINE	MHW	3.35
П	MEAN LOW WATER LINE	MLW	-3.72
	MEAN LOWER LOW WATER LINE	MLLW	-3.98
	TOWN:	PROJE	CT NO.:

SCALE IN FEET SCALE 1"=60"

T. ADINOLFI CHECKED: V. ROBBINS APPROVED:

C. BROWN

HNTB Corporation



STATE OF CONNECTICUT DEPARTMENT OF TRANSPORTATION

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

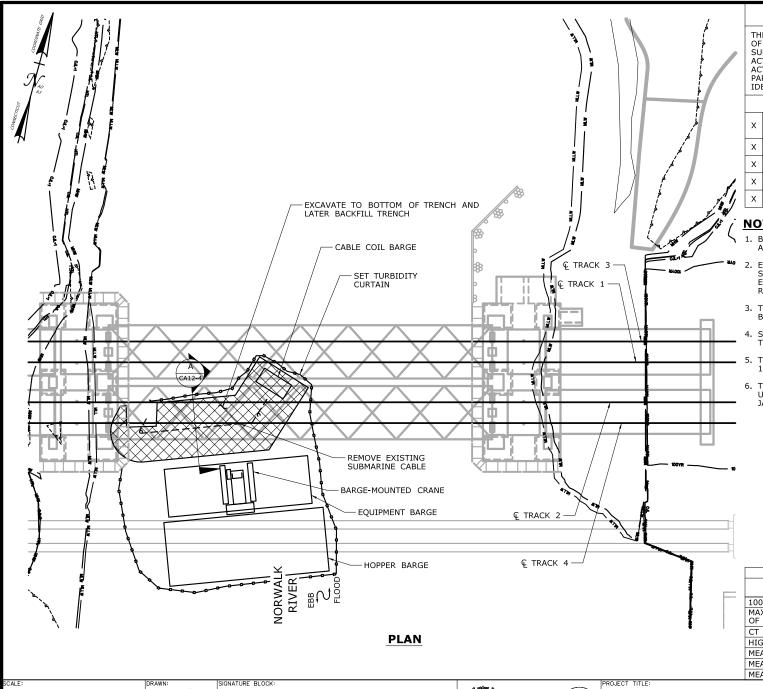
NORWALK

DRAWING TITLE:

0301-0176

ACTIVITY 12 SUBMARINE CABLE REMOVAL (2 OF 4)

REV 02-17-21 DRAWING NO.: CA12-2



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 EAST CHANNEL, MOBILIZE BARGES TO WEST CHANNEL.
- SET TURBIDITY CURTAIN.
- EXCAVATE TO BOTTOM OF TRENCH.
- REMOVE EXISTING SUBMARINE CABLE.
- 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 TAB		
DESCRIPTION	CONTOUR	ELEVATION (NAVD88)
100-YEAR FLOODPLAIN	100 YR	10.0/12.0
MAX. ELEVATION OF LAND CAPABLE OF SUPPORTING TIDAL VEGETATION	CJL+1	6.4
CT COASTAL JURISDICTION LINE	CJL	5.4
HIGH TIDE LINE	HTL	5.2
MEAN HIGH WATER LINE	MHW	3.35
MEAN LOW WATER LINE	MLW	-3.72
MEAN LOWER LOW WATER LINE	MLLW	-3.98
TOWN:	PROJE	CT NO.:

SCALE IN FEET SCALE 1"=60'

T. ADINOLFI CHECKED: V. ROBBINS APPROVED:

C. BROWN



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

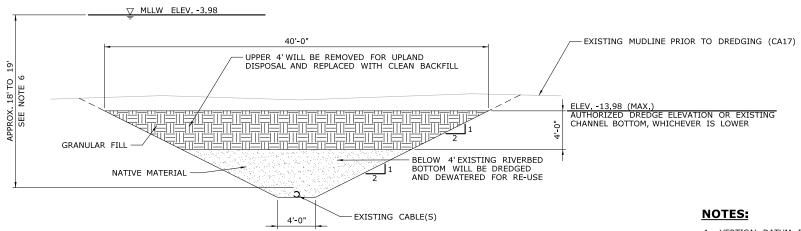
NORWALK

DRAWING TITLE:

0301-0176

ACTIVITY 12 SUBMARINE CABLE REMOVAL (3 OF 4)

REV 02-17-21 DRAWING NO.: CA12-3





- 1. VERTICAL DATUM IS NAVD 88.
- 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.
- EXISTING CABLE DEPTH BELOW RIVER BOTTOM VARIES, AVAILABLE AS-BUILT INFORMATION INDICATES CABLE DEPTHS APPROXIMATELY 8'TO 9'BELOW THE AUTHORIZED DREDGE ELEVATION.
- 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)
100-YEAR FLOODPLAIN	100 YR	10.0/12.0
MAX. ELEVATION OF LAND CAPABLE OF SUPPORTING TIDAL VEGETATION	CJL+1	6.4
CT COASTAL JURISDICTION LINE	CJL	5.4
HIGH TIDE LINE	HTL	5.2
MEAN HIGH WATER LINE	MHW	3.35
MEAN LOW WATER LINE	MLW	-3.72
MEAN LOWER LOW WATER LINE	MLLW	-3.98
TOWN: PRO IFCT NO:		

SCALE IN FEET

0 5 10

SCALE 1"=10'

DRAWN:
T. ADINOLFI

CHECKED:
V. ROBBINS

APPROVED:
C. BROWN

SIGNATURE BLOCK:

HNTB HNTB Corporation
Enghaers Architects Planner
Saccipital Boulevard. 4th Floor
Fast (869) 267-278
NO. 2889

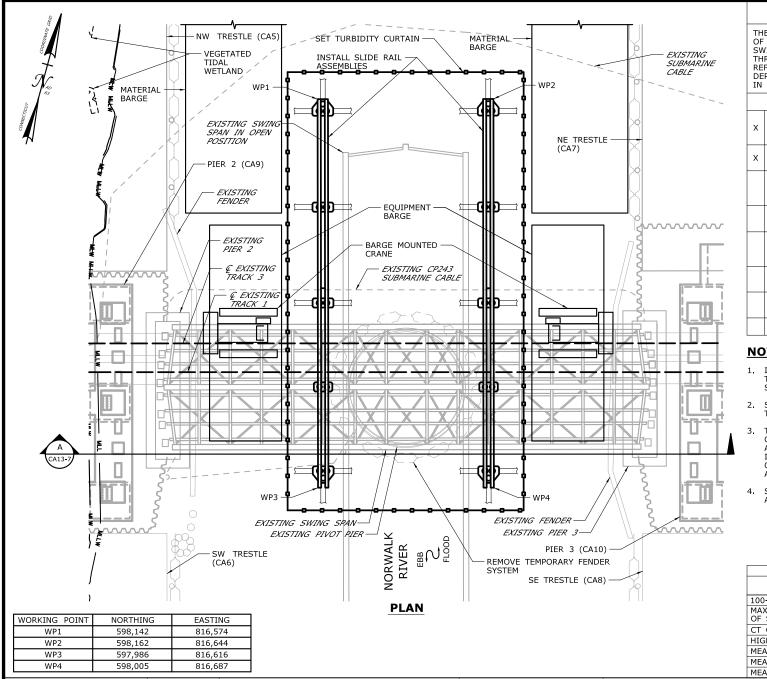


WALK BRIDGE REPLACEMENT OVER THE NORWALK RIVER BRIDGE NO. 04288R/MP 41.5 NORWALK

0301-0176

DRAWING TITLE:

ACTIVITY 12 SUBMARINE CABLE REMOVAL (4 OF 4) REV 6-24-20
DRAWING NO.:
CA12-4



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.

REMOVE REMAINDER OF SLIDE RAIL ASSEMBLIES AND TURBIDITY CURTAIN.

RE-OPEN CHANNEL TO NAVIGATION.

NOTES:

- 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.
- 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)
100-YEAR FLOODPLAIN	100 YR	10.0/12.0
MAX. ELEVATION OF LAND CAPABLE OF SUPPORTING TIDAL VEGETATION	CJL+1	6.4
CT COASTAL JURISDICTION LINE	CJL	5.4
HIGH TIDE LINE	HTL	5.2
MEAN HIGH WATER LINE	MHW	3.35
MEAN LOW WATER LINE	MLW	-3.72
MEAN LOWER LOW WATER LINE	MLLW	-3.98
TOWN:		CT NO.:

SCALE IN FEET

CHECKED: SCALE 1"=40' APPROVED C. BROWN

T. ADINOLFI V. ROBBINS







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

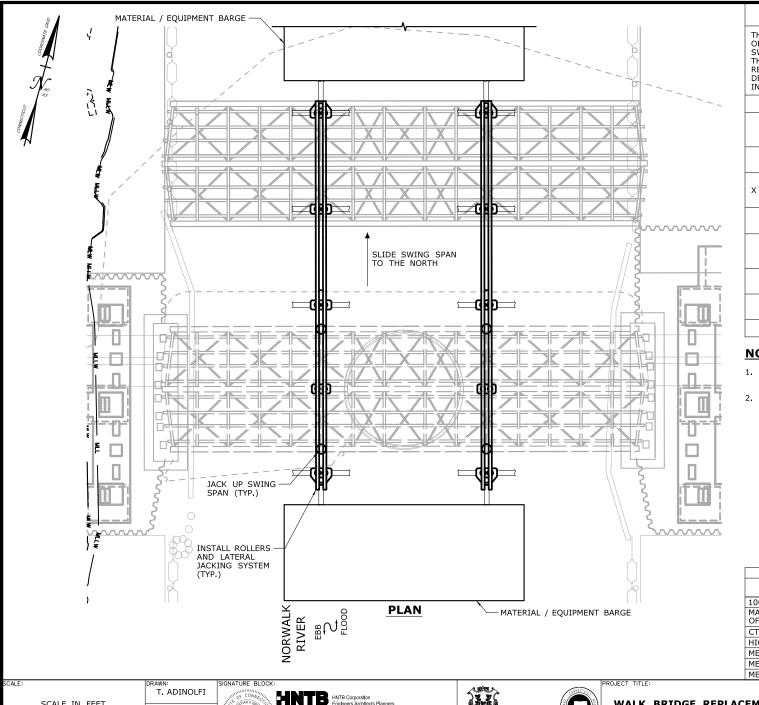
NORWALK DRAWING TITLE:

REV 6-24-20

0301-0176

CA13-1

ACTIVITY 13 SWING SPAN REMOVAL DRAWING NO.: (SHEET 1 OF 7)



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.

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.
- 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)
100-YEAR FLOODPLAIN	100 YR	10.0/12.0
MAX. ELEVATION OF LAND CAPABLE OF SUPPORTING TIDAL VEGETATION	CJL+1	6.4
CT COASTAL JURISDICTION LINE	CJL	5.4
HIGH TIDE LINE	HTL	5.2
MEAN HIGH WATER LINE	MHW	3.35
MEAN LOW WATER LINE	MLW	-3.72
MEAN LOWER LOW WATER LINE	MLLW	-3.98
TOWN: PROJECT NO.:		CT NO.:

SCALE IN FEET SCALE 1"=40'

CHECKED: V. ROBBINS APPROVED: C. BROWN





STATE OF CONNECTICUT

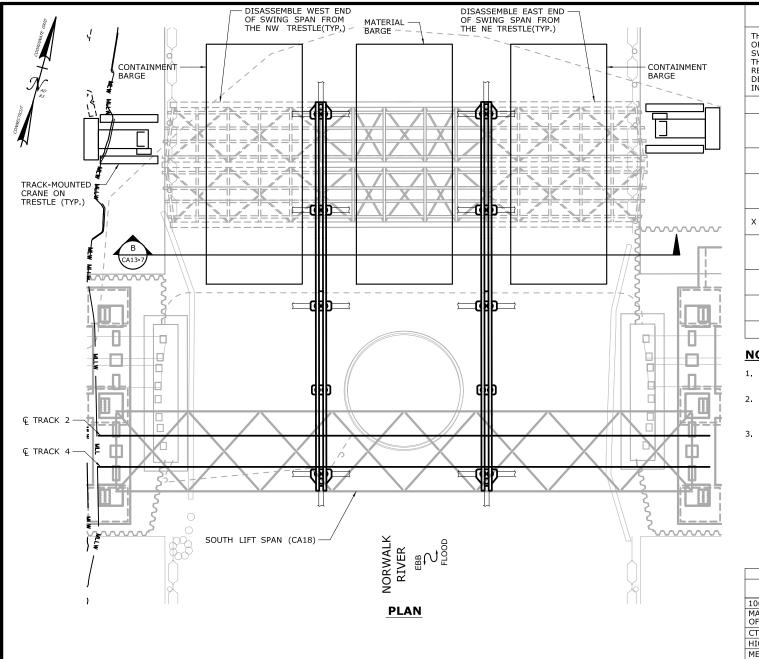
WALK BRIDGE REPLACEMENT **OVER THE NORWALK RIVER** BRIDGE NO. 04288R/MP 41.5

NORWALK DRAWING TITLE:

0301-0176

ACTIVITY 13 SWING SPAN REMOVAL DRAWING NO.: (SHEET 2 OF 7)

REV 6-24-20 CA13-2



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.

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.
- 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)
100-YEAR FLOODPLAIN	100 YR	10.0/12.0
MAX. ELEVATION OF LAND CAPABLE OF SUPPORTING TIDAL VEGETATION	CJL+1	6.4
CT COASTAL JURISDICTION LINE	CJL	5.4
HIGH TIDE LINE	HTL	5.2
MEAN HIGH WATER LINE	MHW	3.35
MEAN LOW WATER LINE	MLW	-3.72
MEAN LOWER LOW WATER LINE	MLLW	-3.98
TOWN: PROJECT NO.:		CT NO.:

SCALE IN FEET SCALE 1"=40'

SCALE:

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



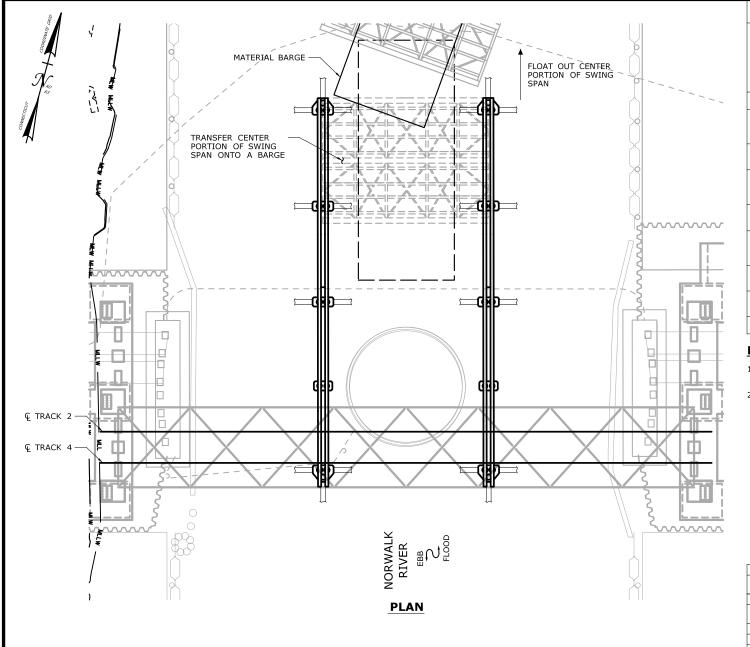
WALK BRIDGE REPLACEMENT **OVER THE NORWALK RIVER** BRIDGE NO. 04288R/MP 41.5

NORWALK DRAWING TITLE:

0301-0176

ACTIVITY 13 SWING SPAN REMOVAL DRAWING NO.: (SHEET 3 OF 7)

REV 6-24-20 CA13-3



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 Χ 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.
- 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)
100-YEAR FLOODPLAIN	100 YR	10.0/12.0
MAX. ELEVATION OF LAND CAPABLE OF SUPPORTING TIDAL VEGETATION	CJL+1	6.4
CT COASTAL JURISDICTION LINE	CJL	5.4
HIGH TIDE LINE	HTL	5.2
MEAN HIGH WATER LINE	MHW	3.35
MEAN LOW WATER LINE	MLW	-3.72
MEAN LOWER LOW WATER LINE	MLLW	-3.98
TOWN:		CT NO.:

SCALE IN FEET SCALE 1"=40'

T. ADINOLFI CHECKED: V. ROBBINS APPROVED:

C. BROWN





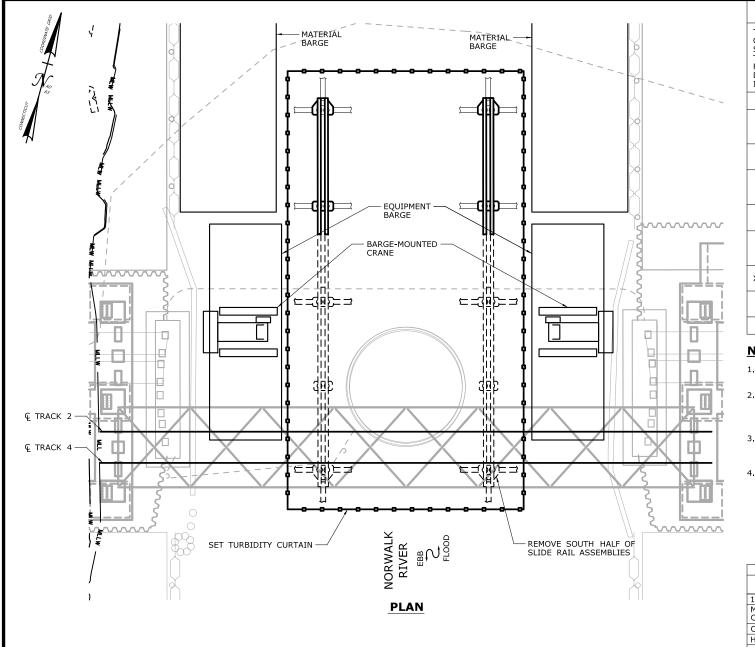
WALK BRIDGE REPLACEMENT **OVER THE NORWALK RIVER** BRIDGE NO. 04288R/MP 41.5

NORWALK DRAWING TITLE:

0301-0176

ACTIVITY 13 SWING SPAN REMOVAL DRAWING NO.: (SHEET 4 OF 7)

REV 6-24-20 CA13-4



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.

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. EOUIPMENT AND MATERIAL BARGES WILL BE MOORED TO TRESTLE MOORING PILES OR SPUD PILES (36" MAX.) IN THE RIVER.
- 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)
100-YEAR FLOODPLAIN	100 YR	10.0/12.0
MAX. ELEVATION OF LAND CAPABLE OF SUPPORTING TIDAL VEGETATION	CJL+1	6.4
CT COASTAL JURISDICTION LINE	CJL	5.4
HIGH TIDE LINE	HTL	5.2
MEAN HIGH WATER LINE	MHW	3.35
MEAN LOW WATER LINE	MLW	-3.72
MEAN LOWER LOW WATER LINE	MLLW	-3.98
TOWN: PROJECT NO.:		CT NO.:

SCALE IN FEET SCALE 1"=40'

T. ADINOLFI CHECKED: V. ROBBINS APPROVED:

C. BROWN



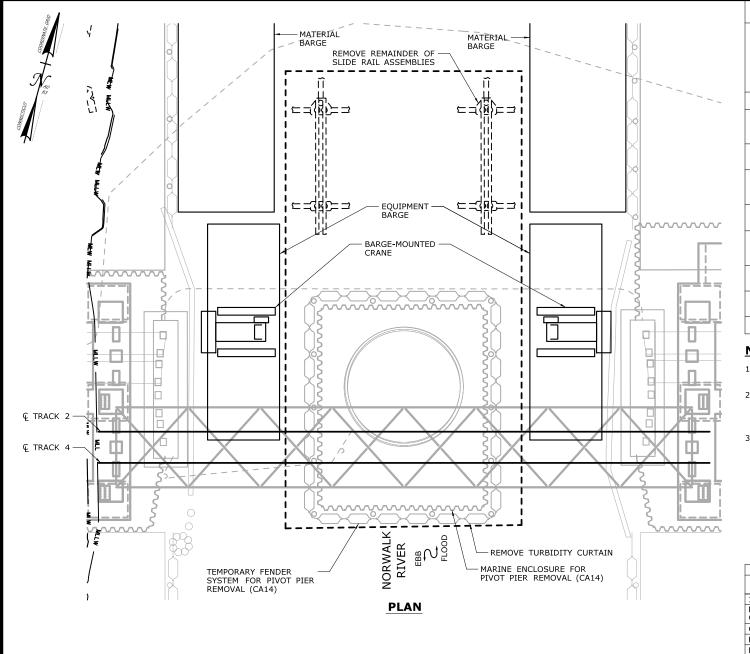
WALK BRIDGE REPLACEMENT **OVER THE NORWALK RIVER** BRIDGE NO. 04288R/MP 41.5

NORWALK DRAWING TITLE:

ACTIVITY 13 SWING SPAN REMOVAL DRAWING NO.: (SHEET 5 OF 7)

REV 6-24-20 CA13-5

0301-0176



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.

- REMOVE REMAINDER OF SLIDE RAIL ASSEMBLIES AND TURBIDITY CURTAIN.
- Χ RE-OPEN CHANNEL TO NAVIGATION.

NOTES:

- 1. SEE VESSEL BERTHING PLAN (DWG. GEN-9) FOR TYPICAL BARGE SIZES.
- BARGES SHOWN DEPICT REPRESENTATIVE LOCATIONS IN THE NAVIGATION CHANNELS THAT WILL BE UTILIZED AS NEEDED THROUGHOUT THE COURSE OF
- EOUIPMENT AND MATERIAL BARGES WILL BE MOORED TO TRESTLE MOORING PILES OR SPUD PILES (36" MAX.) IN THE RIVER.

ELEVATION TABLE		
DESCRIPTION	CONTOUR	ELEVATION (NAVD88)
100-YEAR FLOODPLAIN	100 YR	10.0/12.0
MAX. ELEVATION OF LAND CAPABLE OF SUPPORTING TIDAL VEGETATION	CJL+1	6.4
CT COASTAL JURISDICTION LINE	CJL	5.4
HIGH TIDE LINE	HTL	5.2
MEAN HIGH WATER LINE	MHW	3.35
MEAN LOW WATER LINE	MLW	-3.72
MEAN LOWER LOW WATER LINE	MLLW	-3.98
TOWN: PROJECT NO.:		CT NO.:

SCALE IN FEET SCALE 1"=40'

T. ADINOLFI CHECKED: V. ROBBINS APPROVED:

C. BROWN



STATE OF CONNECTICUT

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

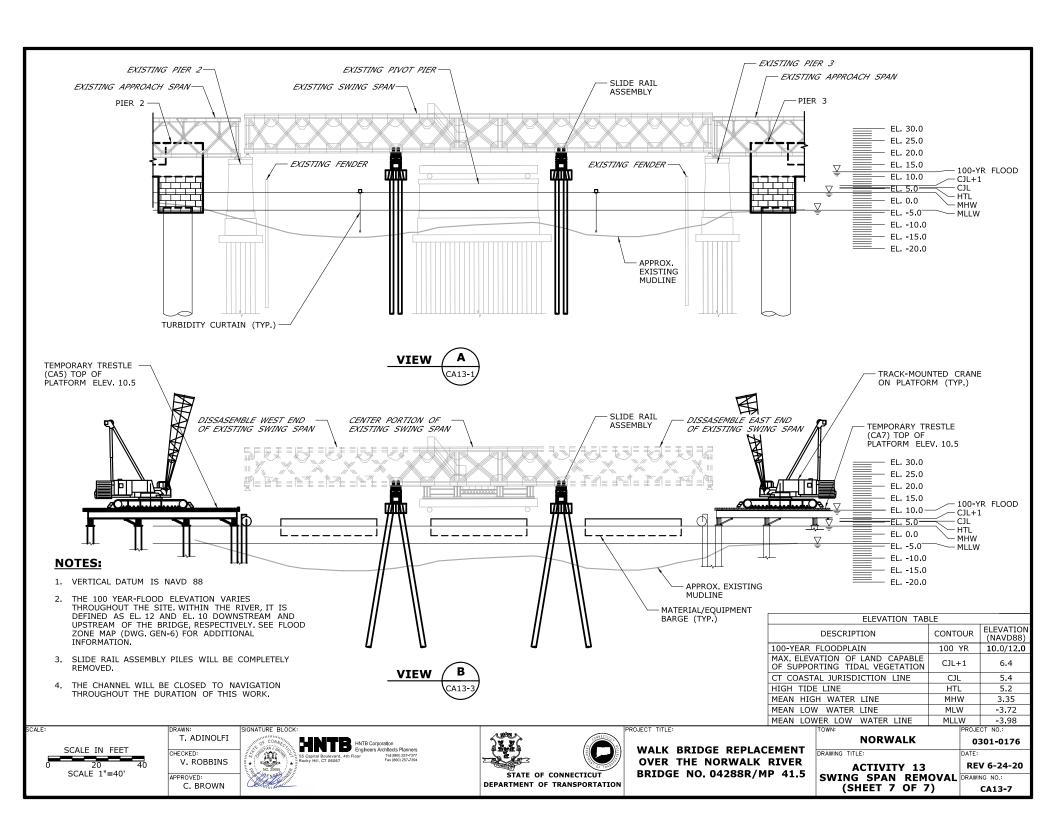
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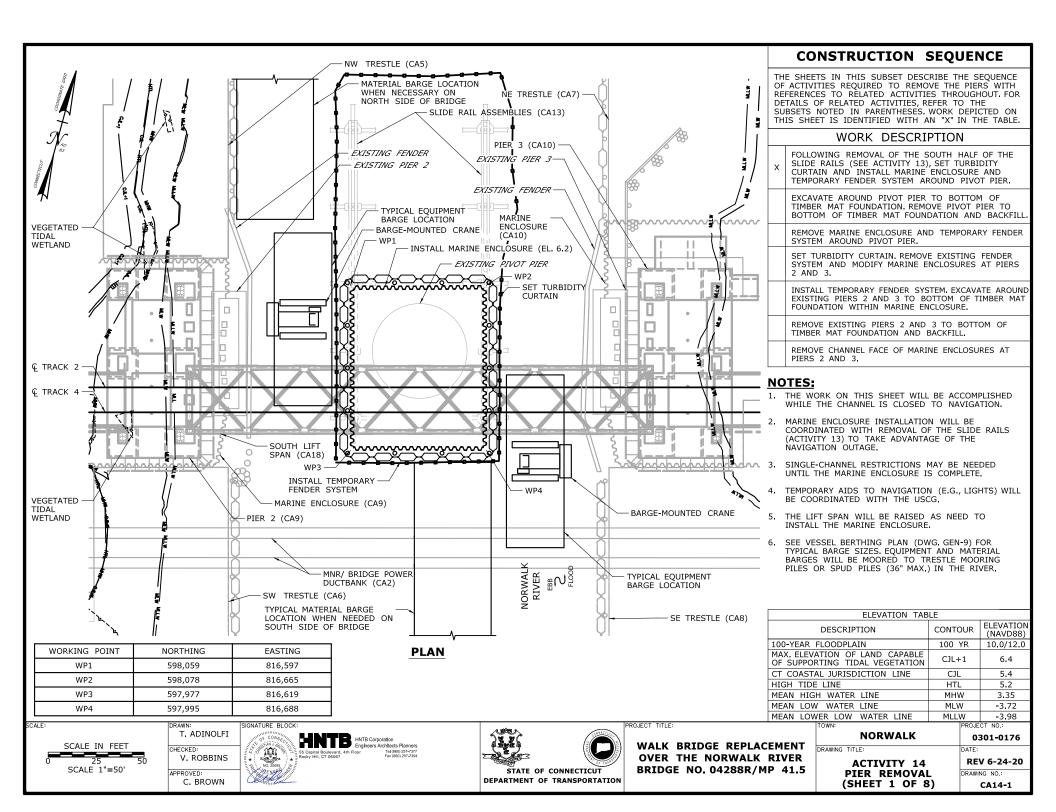
REV 6-24-20 SWING SPAN REMOVAL DRAWING NO.:

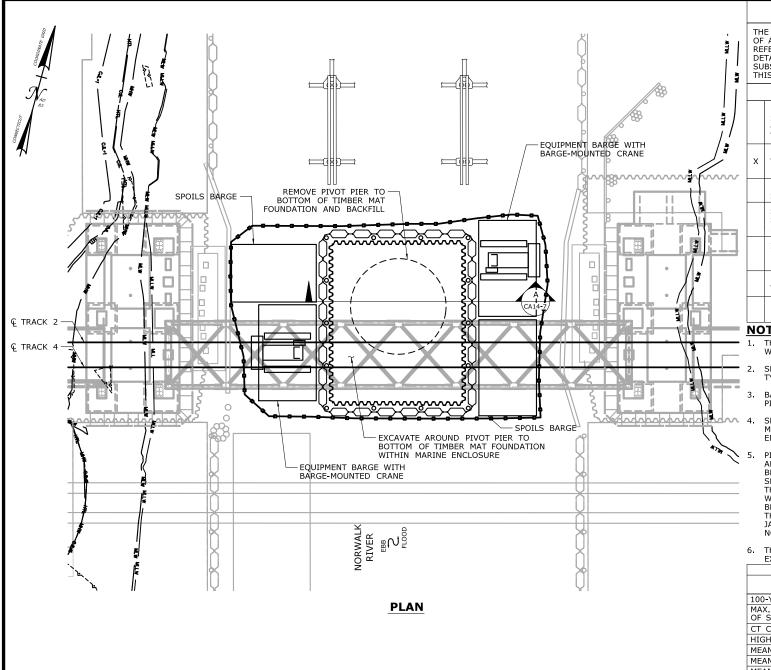
0301-0176

CA13-6

ACTIVITY 13 (SHEET 6 OF 7)







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.

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:

- THE WORK ON THIS SHEET WILL BE ACCOMPLISHED WHILE THE CHANNEL IS CLOSED TO NAVIGATION.
- 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.
- SPOIL TANKS WILL BE USED FOR DEWATERING OF MATERIAL EXCAVATED FROM WITHIN THE MARINE
- 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.
- THE LIFT SPAN WILL BE RAISED AS NEEDED FOR EXCAVATION AND REMOVAL

EXCAVATION AND REPOVAL			
ELEVATION TAB	LE		
DESCRIPTION	CONTOUR	ELEVATION (NAVD88)	
100-YEAR FLOODPLAIN	100 YR	10.0/12.0	
MAX. ELEVATION OF LAND CAPABLE OF SUPPORTING TIDAL VEGETATION	CJL+1	6.4	
CT COASTAL JURISDICTION LINE	CJL	5.4	
HIGH TIDE LINE	HTL	5.2	
MEAN HIGH WATER LINE	MHW	3.35	
MEAN LOW WATER LINE	MLW	-3.72	
MEAN LOWER LOW WATER LINE	MLLW	-3.98	
TOWN: PROJECT NO.:			

SCALE IN FEET SCALE 1"=50'

CALE:

T. ADINOLFI CHECKED: V. ROBBINS APPROVED:

C. BROWN



STATE OF CONNECTICUT

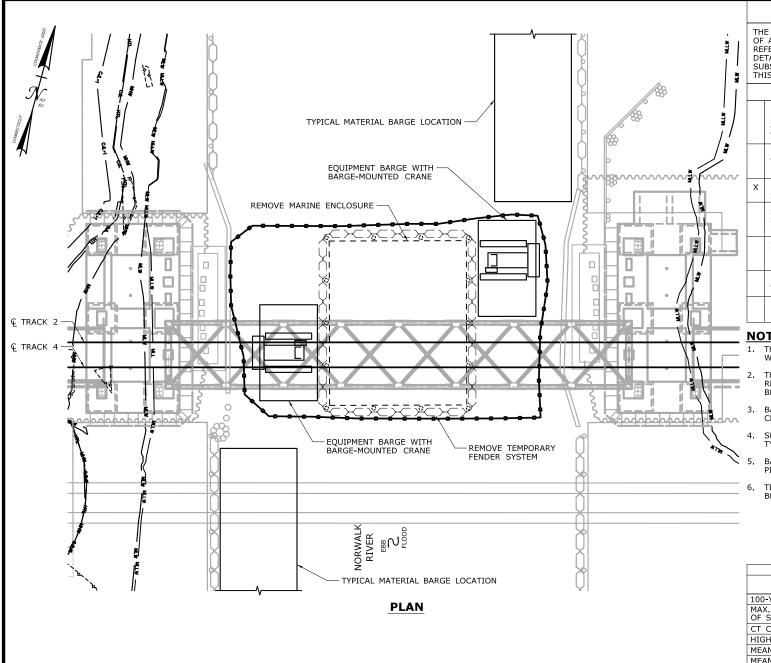
WALK BRIDGE REPLACEMENT **OVER THE NORWALK RIVER** BRIDGE NO. 04288R/MP 41.5

NORWALK

DRAWING TITLE:

0301-0176

ACTIVITY 14 PIER REMOVAL (SHEET 2 OF 8)



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.

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.
- THE LIFT SPAN WILL BE RAISED AS NEEDED TO REMOVE SECTIONS OF THE MARINE ENCLOSURE BENEATH THE BRIDGE.
- BARGES WILL NOT SIMULTANEOUSLY OCCUPY BOTH CHANNELS WHILE THE CHANNEL IS OPEN.
- 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.
- TEMPORARY AIDS TO NAVIGATION (E.G., LIGHTS) WILL BE COORDINATED WITH THE USCG.

ELEVATION TAB	LE	
DESCRIPTION	CONTOUR	ELEVATION (NAVD88)
100-YEAR FLOODPLAIN	100 YR	10.0/12.0
MAX. ELEVATION OF LAND CAPABLE OF SUPPORTING TIDAL VEGETATION	CJL+1	6.4
CT COASTAL JURISDICTION LINE	CJL	5.4
HIGH TIDE LINE	HTL	5.2
MEAN HIGH WATER LINE	MHW	3.35
MEAN LOW WATER LINE	MLW	-3.72
MEAN LOWER LOW WATER LINE	MLLW	-3.98
TOWN:	PROJE	CT NO.:

SCALE IN FEET SCALE 1"=50'

CALE:

T. ADINOLFI CHECKED: V. ROBBINS APPROVED:

C. BROWN



STATE OF CONNECTICUT

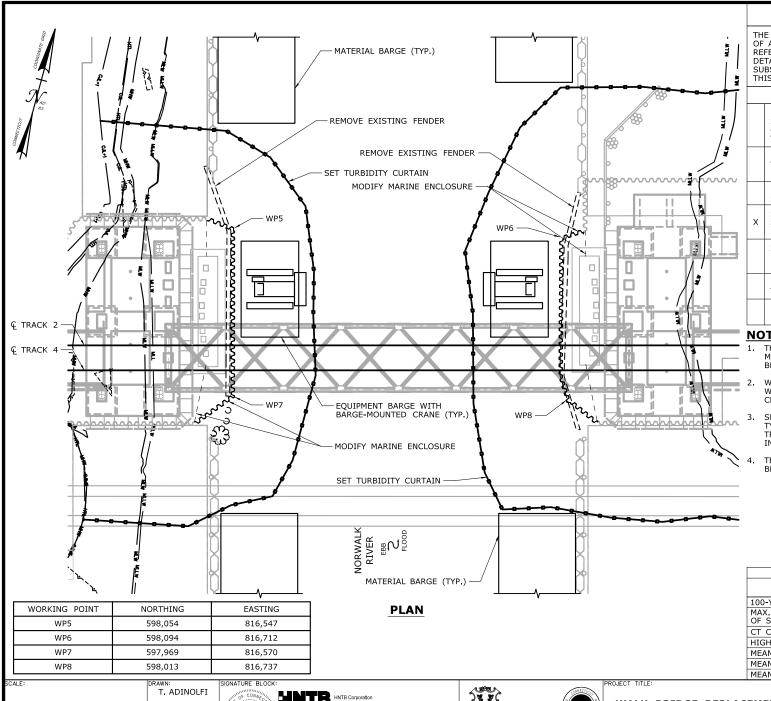
WALK BRIDGE REPLACEMENT **OVER THE NORWALK RIVER** BRIDGE NO. 04288R/MP 41.5

NORWALK

DRAWING TITLE:

0301-0176

ACTIVITY 14 PIER REMOVAL (SHEET 3 OF 8)



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.

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:

- THE LIFT SPAN WILL BE RAISED AS NEEDED TO MODIFY SECTIONS OF THE MARINE ENCLOSURES BENEATH THE BRIDGE.
- WORK WILL PROGRESS ONE PIER AT A TIME. BARGES WILL NOT SIMULTANEOUSLY OCCUPY BOTH NAVIGATION CHANNELS AFTER THE CHANNEL IS RE-OPENED.
- SEE VESSEL BERTHING PLAN (DWG. GEN-9) FOR TYPICAL BARGE SIZES, BARGES WILL BE MOORED TO TRESTLE MOORING PILES OR SPUD PILES (36" MAX.)
- TEMPORARY AIDS TO NAVIGATION (E.G., LIGHTS) WILL BE COORDINATED WITH THE USCG.

	ELEVATION TAB	LE	
	DESCRIPTION	CONTOUR	ELEVATION (NAVD88)
	100-YEAR FLOODPLAIN	100 YR	10.0/12.0
	MAX. ELEVATION OF LAND CAPABLE OF SUPPORTING TIDAL VEGETATION	CJL+1	6.4
ſ	CT COASTAL JURISDICTION LINE	CJL	5.4
ſ	HIGH TIDE LINE	HTL	5.2
	MEAN HIGH WATER LINE	MHW	3.35
ſ	MEAN LOW WATER LINE	MLW	-3.72
	MEAN LOWER LOW WATER LINE	MLLW	-3.98
	TOWN:	PROJE	CT NO.:

SCALE IN FEET SCALE 1"=50'

CHECKED: V. ROBBINS APPROVED:

C. BROWN



STATE OF CONNECTICUT

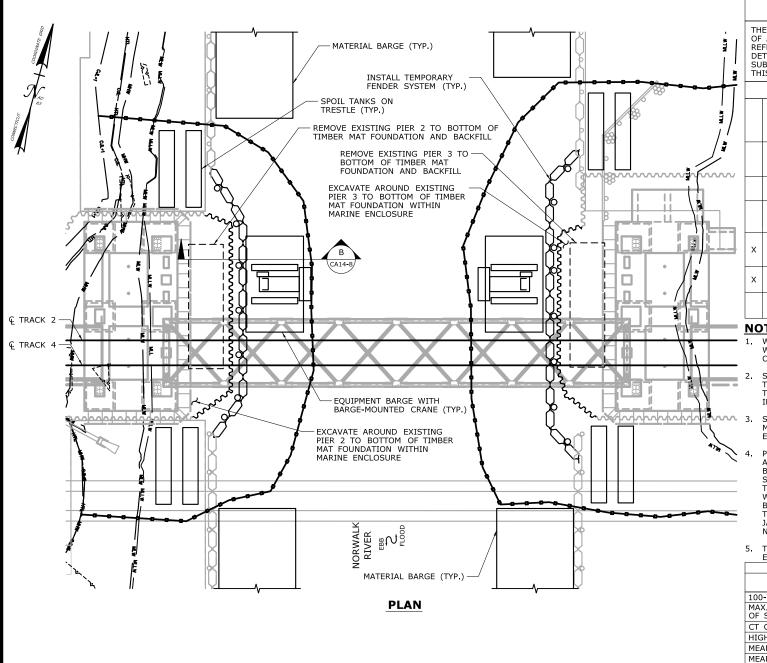
WALK BRIDGE REPLACEMENT **OVER THE NORWALK RIVER** BRIDGE NO. 04288R/MP 41.5

NORWALK

DRAWING TITLE:

0301-0176

ACTIVITY 14 PIER REMOVAL (SHEET 4 OF 8)



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.

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:

- WORK WILL PROGRESS ONE PIER AT A TIME. BARGES WILL NOT SIMULTANEOUSLY OCCUPY BOTH NAVIGATION CHANNELS WHILE THE CHANNEL IS OPEN.
- 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,
- SPOIL TANKS WILL BE USED FOR DEWATERING OF MATERIAL EXCAVATED FROM WITHIN THE MARINE
- 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.
- THE LIFT SPAN WILL BE RAISED AS NEEDED FOR EXCAVATION AND REMOVAL

EXCAVATION AND REPOVAL,		
ELEVATION TABLE		
DESCRIPTION	CONTOUR	ELEVATION (NAVD88)
100-YEAR FLOODPLAIN	100 YR	10.0/12.0
MAX. ELEVATION OF LAND CAPABLE OF SUPPORTING TIDAL VEGETATION	CJL+1	6.4
CT COASTAL JURISDICTION LINE	CJL	5.4
HIGH TIDE LINE	HTL	5.2
MEAN HIGH WATER LINE	MHW	3.35
MEAN LOW WATER LINE	MLW	-3.72
MEAN LOWER LOW WATER LINE	MLLW	-3.98
TOWN: PROJECT NO.:		

SCALE IN FEET SCALE 1"=50'

CALE:

T. ADINOLFI CHECKED: V. ROBBINS APPROVED:

C. BROWN

HNTB Corporation



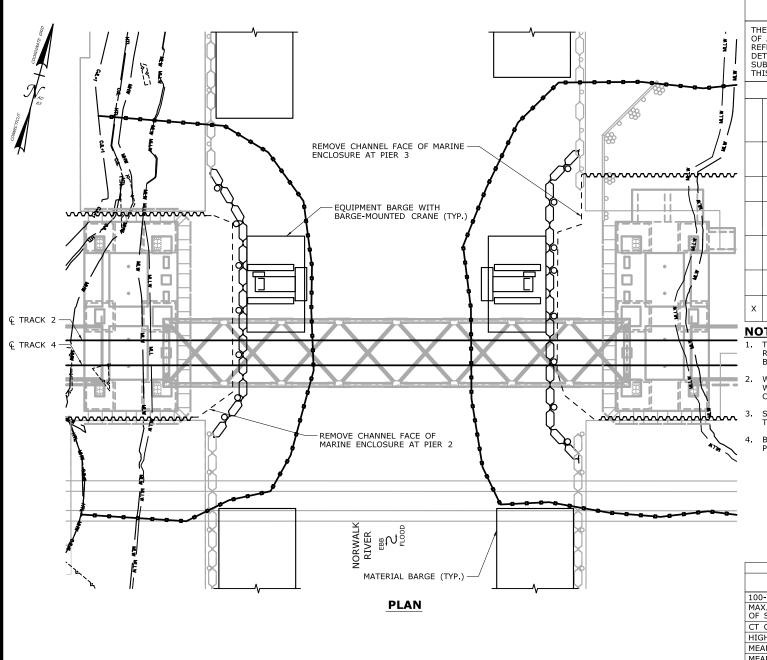
STATE OF CONNECTICUT DEPARTMENT OF TRANSPORTATION

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

NORWALK DRAWING TITLE:

0301-0176

ACTIVITY 14 PIER REMOVAL (SHEET 5 OF 8)



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.

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:

- THE LIFT SPAN WILL BE RAISED AS NEEDED TO REMOVE SECTIONS OF THE MARINE ENCLOSURES BENEATH THE BRIDGE,
- WORK WILL PROGRESS ONE PIER AT A TIME, BARGES WILL NOT SIMULTANEOUSLY OCCUPY BOTH NAVIGATION CHANNELS.
- 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.

ELEVATION TABLE		
DESCRIPTION	CONTOUR	ELEVATION (NAVD88)
100-YEAR FLOODPLAIN	100 YR	10.0/12.0
MAX. ELEVATION OF LAND CAPABLE OF SUPPORTING TIDAL VEGETATION	CJL+1	6.4
CT COASTAL JURISDICTION LINE	CJL	5.4
HIGH TIDE LINE	HTL	5.2
MEAN HIGH WATER LINE	MHW	3.35
MEAN LOW WATER LINE	MLW	-3.72
MEAN LOWER LOW WATER LINE	MLLW	-3.98
TOWN: PROJECT NO.:		

SCALE IN FEET SCALE 1"=50'

SCALE:

T. ADINOLFI CHECKED: V. ROBBINS APPROVED:

C. BROWN



STATE OF CONNECTICUT

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

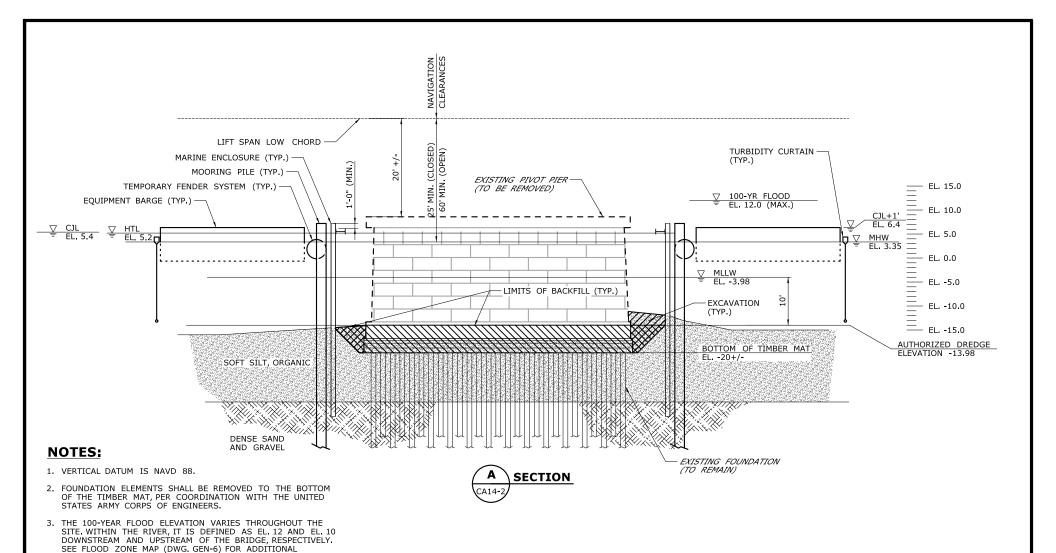
NORWALK

DRAWING TITLE:

0301-0176

ACTIVITY 14 PIER REMOVAL (SHEET 6 OF 8) **REV 6-24-20**

DRAWING NO.: CA14-6



ELEVATION T	ABLE	
DESCRIPTION	CONTOUR	ELEVATION (NAVD88)
100-YEAR FLOODPLAIN	100 YR	10.0/12.0
MAX. ELEVATION OF LAND CAPABL OF SUPPORTING TIDAL VEGETATIO		6.4
CT COASTAL JURISDICTION LINE	CJL	5.4
HIGH TIDE LINE	HTL	5.2
MEAN HIGH WATER LINE	MHW	3.35
MEAN LOW WATER LINE	MLW	-3.72
MEAN LOWER LOW WATER LINE	MLLW	-3.98

SCALE IN FEET

0 10 20
SCALE 1"=20'

INFORMATION.

TIDE LINE.

T. ADINOLFI
CHECKED:
V. ROBBINS
APPROVED:

C. BROWN

4. THE WATER LEVEL WITHIN THE MARINE ENCLOSURE WILL BE MAINTAINED AT OR BELOW THE WATER ELEVATION IN THE

5. MARINE ENCLOSURE WILL BE INSTALLED SO THAT THE TOP WILL BE AT OR ABOVE ELEV. 6.2, 1 FOOT ABOVE THE HIGH

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.

SIGNATURE BLOCK:

HATTB HNTB Corporation
Engineers Architects Planners
St Capital Boulevard, 4th Floor
Fell (600) 324-7334

NO. 2018

NO. 2018

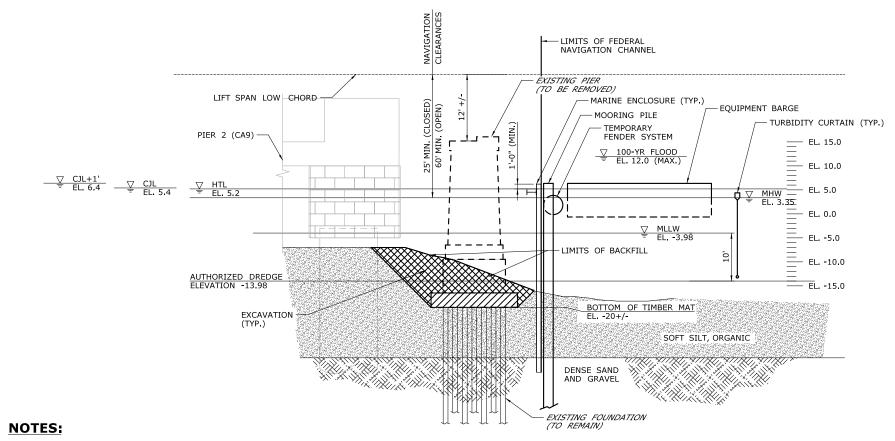


WALK BRIDGE REPLACEMENT OVER THE NORWALK RIVER BRIDGE NO. 04288R/MP 41.5

NORWALK
DRAWING TITLE:

NORWALK 0301-0176

ACTIVITY 14 PIER REMOVAL (SHEET 7 OF 8)



- 1. VERTICAL DATUM IS NAVD 88.
- 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 AND EL. 10 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
- 5. MARINE ENCLOSURE WILL BE INSTALLED SO THAT THE TOP WILL BE AT OR ABOVE ELEV. 6.2, 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.



(EXISTING PIER 2 SHOW, EXISTING PIER 3 SIMILAR)

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

SCALE IN FEET SCALE 1"=20'

SCALE:

T. ADINOLFI CHECKED: V. ROBBINS APPROVED:

C. BROWN

Engineers Architects Planners



STATE OF CONNECTICUT

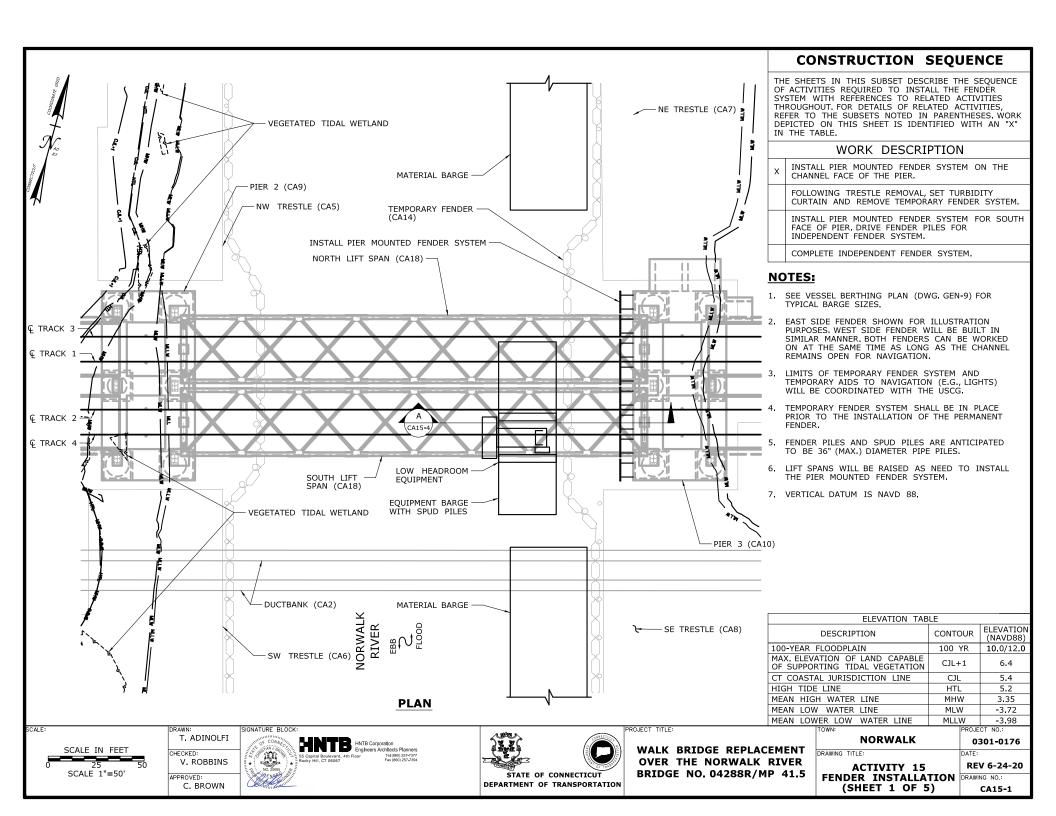
WALK BRIDGE REPLACEMENT **OVER THE NORWALK RIVER** BRIDGE NO. 04288R/MP 41.5

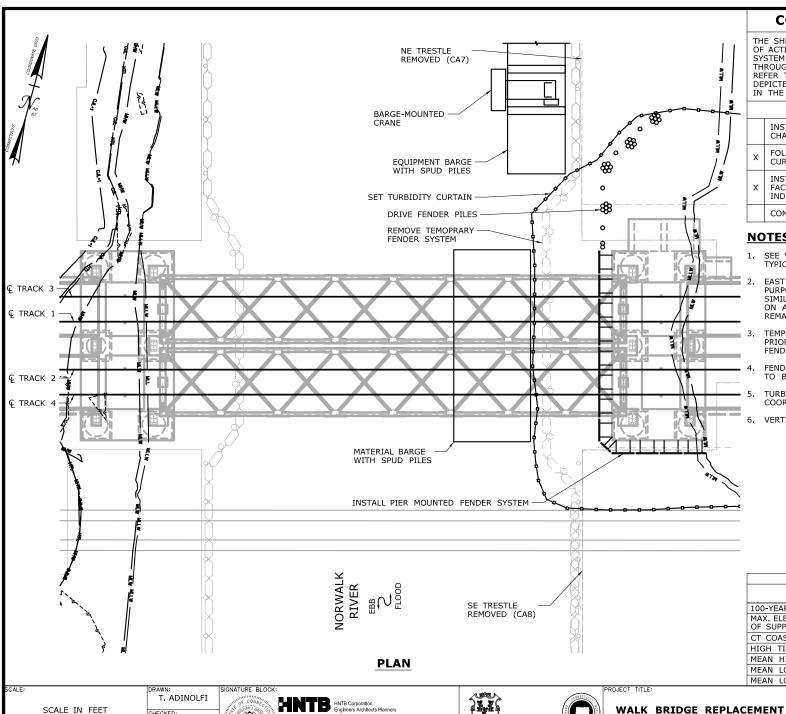
NORWALK

DRAWING TITLE:

0301-0176

ACTIVITY 14 PIER REMOVAL (SHEET 8 OF 8)





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.

COMPLETE INDEPENDENT FENDER SYSTEM.

NOTES:

- SEE VESSEL BERTHING PLAN (DWG. GEN-9) FOR TYPICAL BARGE SIZES,
- 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.
- TEMPORARY FENDER SYSTEM SHALL BE IN PLACE PRIOR TO THE INSTALLATION OF THE PERMANENT
- FENDER PILES AND SPUD PILES ARE ANTICIPATED TO BE 36" (MAX.) DIAMETER PIPE PILES.
- TURBIDITY CURTAIN LOCATION WILL BE COORDINATED WITH PIER AND TRESTLE REMOVALS.
- 6. VERTICAL DATUM IS NAVD 88.

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

SCALE IN FEET SCALE 1"=50'

CHECKED: V. ROBBINS APPROVED:

C. BROWN



STATE OF CONNECTICUT

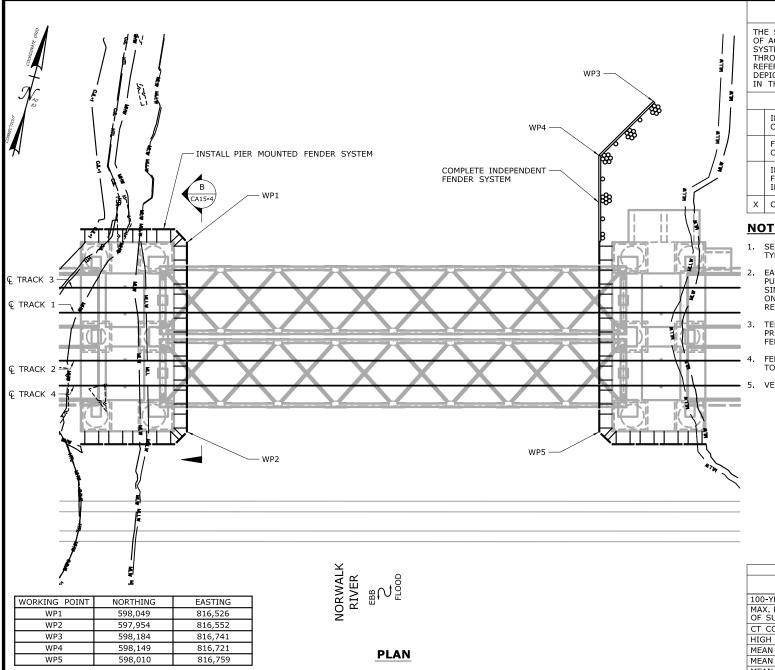
OVER THE NORWALK RIVER BRIDGE NO. 04288R/MP 41.5

NORWALK DRAWING TITLE:

ACTIVITY 15 FENDER INSTALLATION DRAWING NO.: (SHEET 2 OF 5)

REV 6-24-20 CA15-2

0301-0176



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.

COMPLETE INDEPENDENT FENDER SYSTEM.

NOTES:

- 1. SEE VESSEL BERTHING PLAN (DWG. GEN-9) FOR TYPICAL BARGE SIZES,
- 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.
- TEMPORARY FENDER SYSTEM SHALL BE IN PLACE PRIOR TO THE INSTALLATION OF THE PERMANENT
- FENDER PILES AND SPUD PILES ARE ANTICIPATED TO BE 36" (MAX.) DIAMETER PIPE PILES.
- 5. VERTICAL DATUM IS NAVD 88.

ELEVATION TABLE				
DESCRIPTION	CONTOUR	ELEVATION (NAVD88)		
100-YEAR FLOODPLAIN	100 YR	10.0/12.0		
MAX. ELEVATION OF LAND CAPABLE OF SUPPORTING TIDAL VEGETATION	CJL+1	6.4		
CT COASTAL JURISDICTION LINE	CJL	5.4		
HIGH TIDE LINE	HTL	5.2		
MEAN HIGH WATER LINE	MHW	3.35		
MEAN LOW WATER LINE	MLW	-3.72		
MEAN LOWER LOW WATER LINE	MLLW	-3.98		
TOWN:	PROJE	CT NO.:		

SCALE IN FEET SCALE 1"=50'

T. ADINOLFI CHECKED: V. ROBBINS APPROVED:

C. BROWN





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

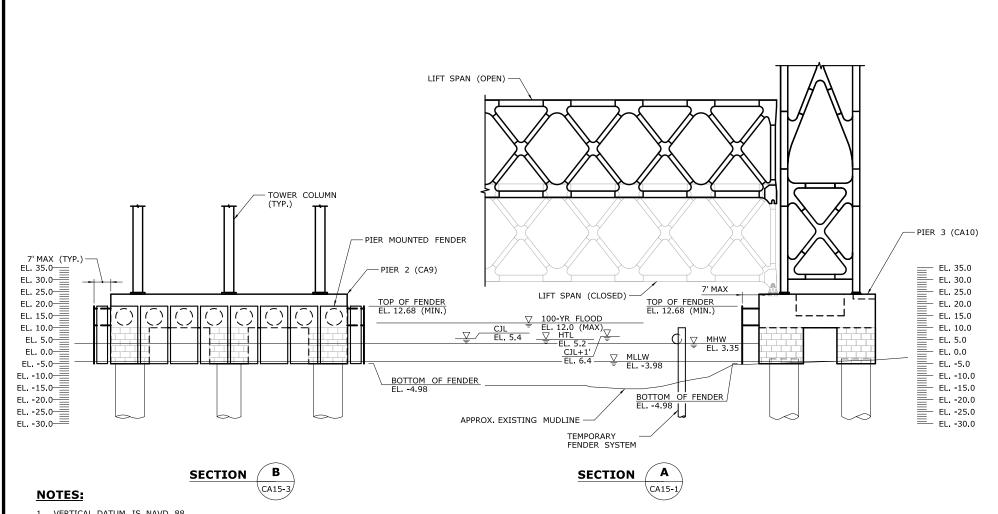
NORWALK

DRAWING TITLE:

0301-0176

ACTIVITY 15 FENDER INSTALLATION DRAWING NO.: (SHEET 3 OF 5)

REV 6-24-20 CA15-3



- 1. VERTICAL DATUM IS NAVD 88.
- THE 100-YEAR FLOOD ELEVATION VARIES THROUGHOUT THE SITE, WITHIN THE RIVER, IT IS DEFINED AS EL. 12 AND EL. 10 DOWNSTREAM AND UPSTREAM OF THE BRIDGE, RESPECTIVELY. SEE FLOOD ZONE MAP (DWG. GEN-6) FOR ADDITIONAL INFORMATION.
- LIFT SPANS WILL BE RAISED AS NEEDED TO INSTALL THE PIER MOUNTED FENDER SYSTEM.
- 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 TAB				
DESCRIPTION	CONTOUR	ELEVATION (NAVD88)		
100-YEAR FLOODPLAIN	100 YR	10.0/12.0		
MAX. ELEVATION OF LAND CAPABLE OF SUPPORTING TIDAL VEGETATION	CJL+1	6.4		
CT COASTAL JURISDICTION LINE	CJL	5.4		
HIGH TIDE LINE	HTL	5.2		
MEAN HIGH WATER LINE	MHW	3.35		
MEAN LOW WATER LINE	MLW	-3.72		
MEAN LOWER LOW WATER LINE	MLLW	-3.98		

SCALE IN FEET SCALE 1"=40'

SCALE:

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

HNTB Corporation Engineers Architects Planners

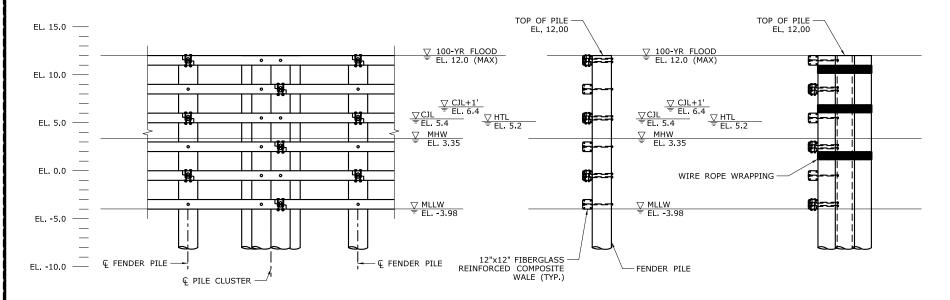


WALK BRIDGE REPLACEMENT **OVER THE NORWALK RIVER** BRIDGE NO. 04288R/MP 41.5

			NORWALK		03	301-0176
		TOWN:			PROJE	CT NO.:
ı	LOW	/ER LOW	WATER LINE	MLL	W	-3.98
ı	LOW	/ WATER	LINE	MLV	٧	-3.72
_	1110	II WAILK	LINE	1:11.13	v	3,33

DRAWING TITLE: **ACTIVITY 15** FENDER INSTALLATION DRAWING NO.: (SHEET 4 OF 5)

REV 6-24-20 CA15-4



TYPICAL INDEPENDENT FENDER SYSTEM ELEVATION

TYPICAL SECTION

TYPICAL PILE CLUSTER ELEVATION

NOTES:

- 1. VERTICAL DATUM IS NAVD 88.
- 2. THE 100-YEAR FLOOD ELEVATION VARIES THROUGHOUT THE SITE. WITHIN THE RIVER, IT IS DEFINED AS EL. 12 AND EL. 10 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
- NAVIGATION LIGHTS WILL BE USED TO DEFINE THE LIMITS OF THE FEDERAL NAVIGATION CHANNEL.

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

SCALE IN FEET SCALE 1"=10'

T, ADINOLFI CHECKED: V. ROBBINS APPROVED:

C. BROWN







WALK BRIDGE REPLACEMENT **OVER THE NORWALK RIVER** BRIDGE NO. 04288R/MP 41.5 TOWN: PROJECT NO.: NORWALK 0301-0176 DRAWING TITLE:

ACTIVITY 15 FENDER INSTALLATION DRAWING NO.: (SHEET 5 OF 5)

REV 6-24-20 CA15-5

ACTIVITY 16 - WETLAND MITIGATION INDEX OF DRAWINGS

DRAWING	DOMINIC TITLE
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

CALE:

V. ROBBINS

T. ADINOLFI

PROVED: C. BROWN

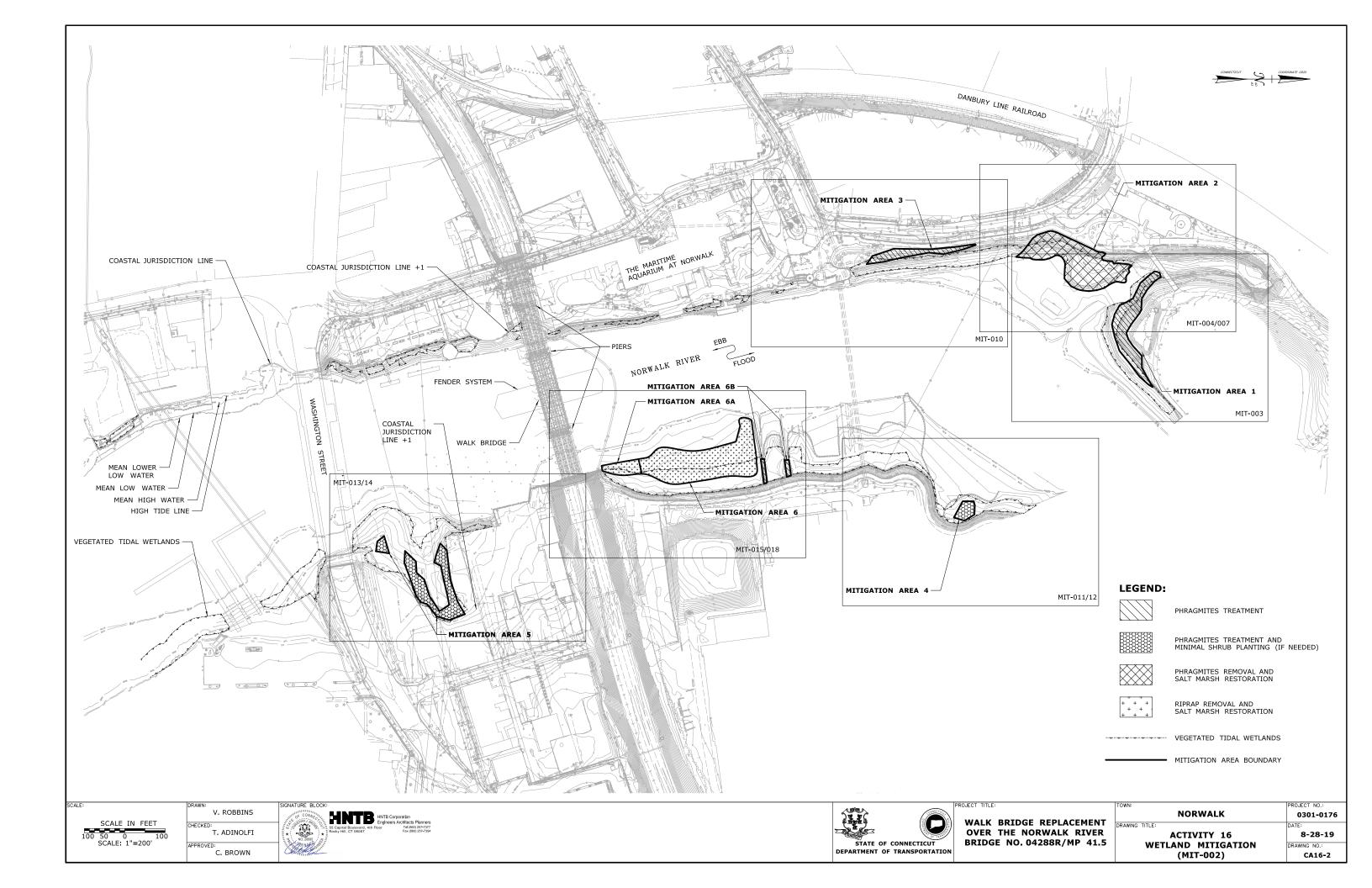


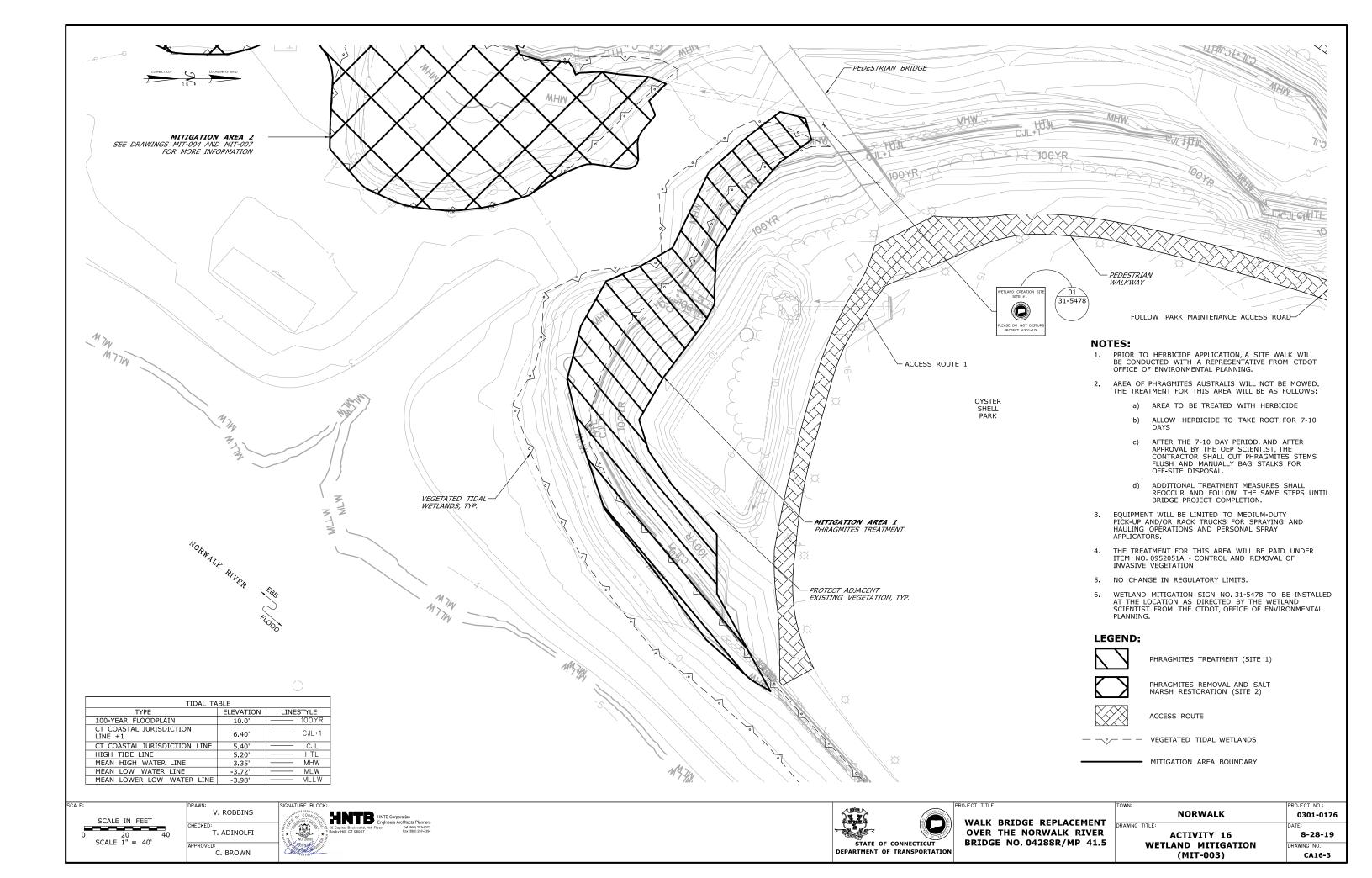


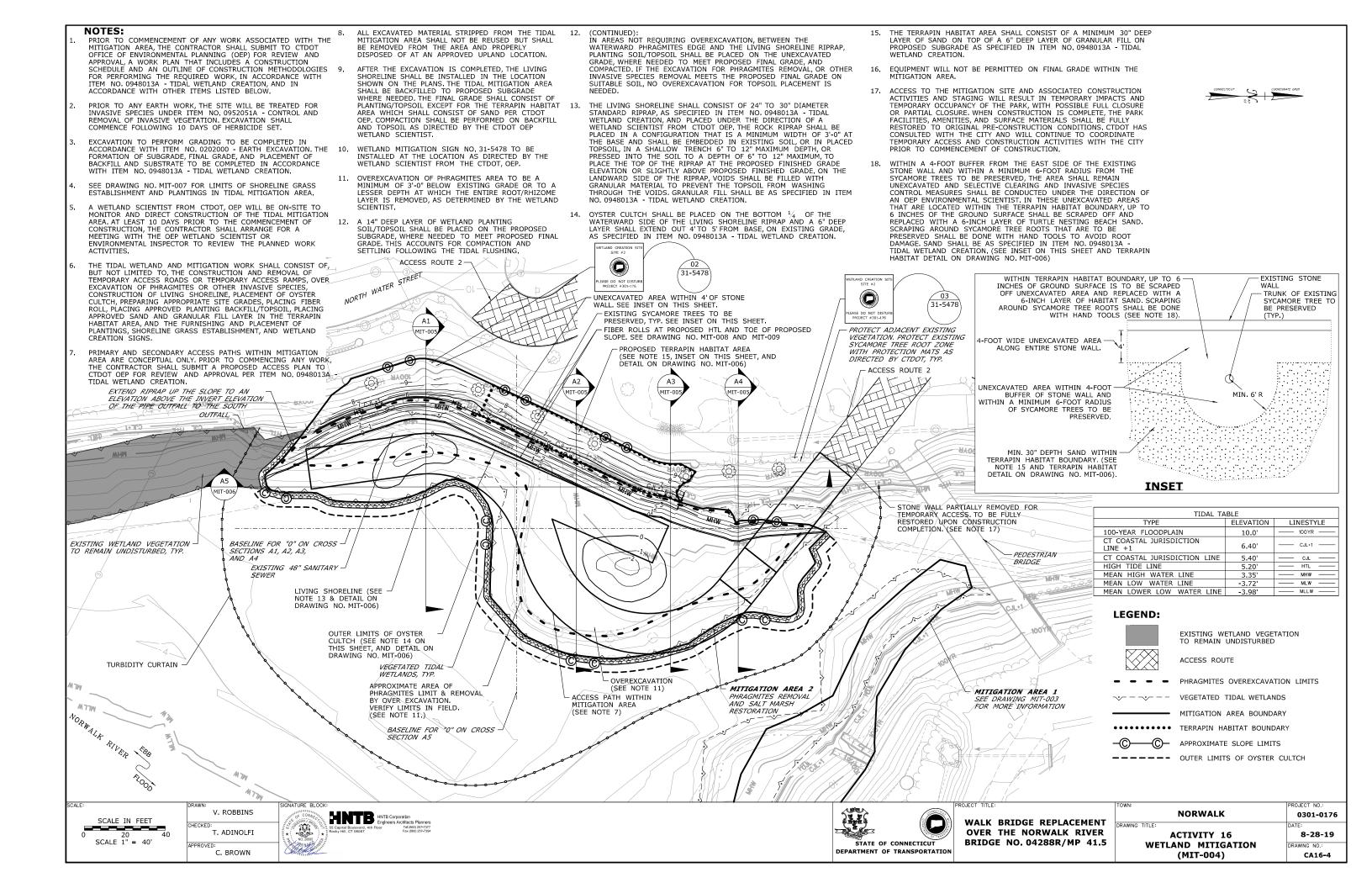
WALK BRIDGE REPLACEMENT
OVER THE NORWALK RIVER
BRIDGE NO. 04288R/MP 41.5

NORWALK PROJECT NO.: 0301-0176
WING TITLE: DATE:

ACTIVITY 16 WETLAND MITIGATION (MIT-001)







- 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

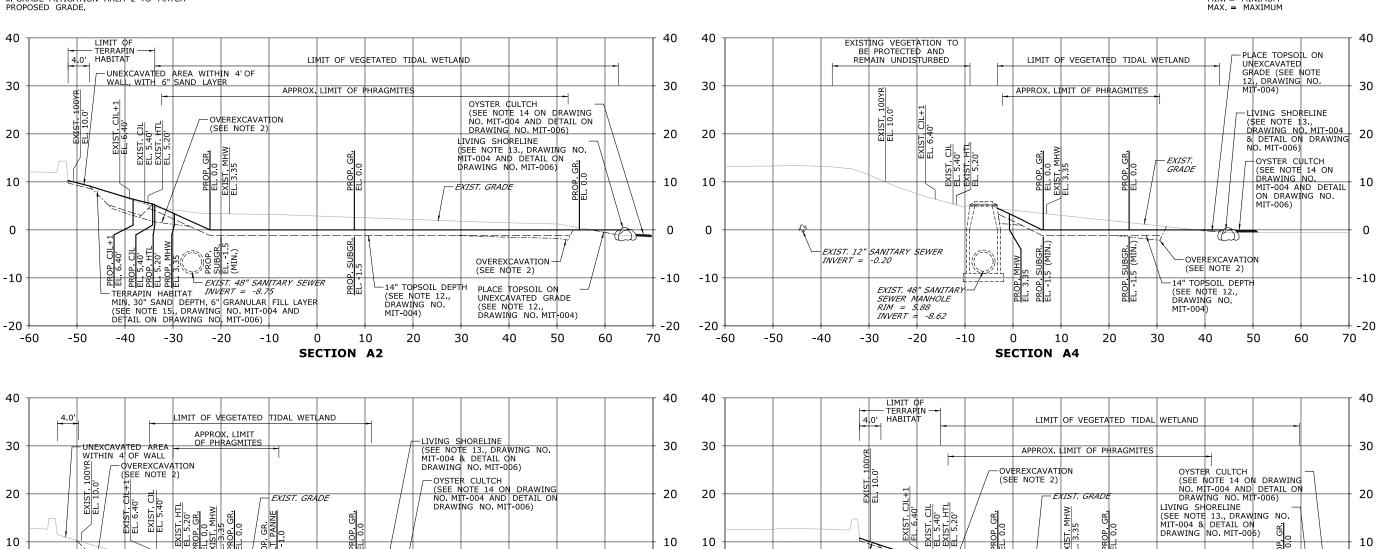
ii. GRADE MITIGATION AREA 2 TO MATCH

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



0

-10

-20

-60

-10

-20

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10

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UNEXCAVATED AREA WITHIN 4' OF WALL, WITH 6" SAND LAYER

IN. 30" SAND DEPTH, 6" GRANULAR FILL LAYER (SEE NOTE 15., DRAWING NO. MIT-004 AND DETAIL ON

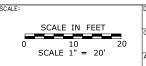
-40

-30

TERRAPIN HABITAT

DRAWING NO. MIT-006)

-50



0

-10

-20

-90

-80



-50

-40

EXIST. 48" SANITARY SEWER

-60

INVERT = -8.86

-70

-PLACE TOPSOIL ON UNEXCAVATED GRADE

-10

(SEE NOTE 12., DRAWING NO. MIT-004)

-20

-14" TOPSOIL DEPTH

SECTION A1

-30

(SEE NOTE 12., DRAWING NO. MIT-004)

0



-20

-10

WALK BRIDGE REPLACEMEN **OVER THE NORWALK RIVER** BRIDGE NO. 04288R/MP 41.

EXIST. 48" SANITARY SEWER

SECTION A3

0

10

20

	NORWALK	PROJECT NO.: 0301-017
	DRAWING TITLE:	DATE:
R .5	ACTIVITY 16	8-28-19
. ၁	WETLAND MITIGATION	DRAWING NO.:

(MIT-005)

60

PLACE TOPSOIL ON UNEXCAVATED GRADE (SEE NOTE 12.,

40

50

14" TOPSOIL DEPTH (SEE NOTE 12., DRAWING NO. MIT-004)

30

0

-10

-20

CA16-5

70

- 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

WHERE NEEDED.

OVEREXCAVATION OF PHRAGMITES.

UNEXCAVATED AREA WITH 6" SAND LAYER 4 FROM WALL EXISTING STONE WALL -W/ METAL RAILING SEE DRAWING NOS. MIT-007, 008, & LINEXCAVATED AREA 009 FOR PLANTING IN TERRAPIN HABITAT WITH 6" SAND LAYER. MIN. 6' RADIUS FROM EXISTING TREE UP TO 6 INCHES OF GROUND SURFACE— TO BE SCRAPED OFF UNEXCAVATED AREAS AND REPLACED WITH A 6-INCH LAYER OF TURTLE BEACH NESTING SAND (SEE NOTE 18, DRAWING NO. MIT-004). 30" MIN SAND DEPTH (AS SPECIFIED IN ITEM NO 0948013A - TIDAL TERMINATE SAND LAYER AT PROP. HTL EL. WETLAND CREATION) EXCAVATE TO-6" GRANULAR LAYER (AS SPECIFIED IN ITEM NO. 0948013A - TIDAL BACKFILL SOIL WETLAND CREATION) PROPOSED SUBGRADE -

WATERWARD LIMIT OF OVER EXCAVATION OF PHRAGMITES NO OVEREXCAVATION REQUIRED WATERWARD OF PHRAGMITES AREA. PROPOSED FINAL GRADE (SEE 3' MIN. DEPTH OF GRADING CROSS SECTIONS) OVEREXCAVATION PLACE TOPSOIL/PLANTING SOIL ON PLACE 6" DEEP LAYER OF (SEE NOTE 12. DRAWING NO. MIT-004) OYSTER CULTCH ON THE BOTTOM 1/4 OF THE -24" TO 30" DIAMETER STD. RIPRAP TOP OF RIPRAP TO BE AT OR EXISTING GRADE-WATERWARD SIDE OF SLIGHTLY ABOVE PROPOSED FINAL GRADE ELEVATION, LIVING SHORELINE RIPRAF AND EXTEND LAYER 4'TO 5'OUT FROM BASE. -EXISTING GRADE FILL VOIDS IN LANDWARD PROPOSED SUBGRADE-FMBFD RIPRAP DIG SHALLOW SIDE OF RIPRAP WITH GRANULAR MATERIAL PRIOR TRENCH OR PRESS ROCK RIPRAP 6" TO 12" MAXIMUM INTO PLACE 14" OF TOPSOIL/PLANTING-SOIL ON PROPOSED SUBGRADE TO TOPSOIL PLACEMENT. EXISTING SOIL OR PLACED WHERE NEEDED. (SEE NOTE 12, NUMBER MIT-004) DRAWING NO MIT-004) PLACE BACKFILL SOIL TO PROPOSED SUBGRADE ELEV. ─ 3' MIN, WIDTH AT BASE

LIVING SHORELINE DETAIL

TERRAPIN HABITAT DETAIL

14" TOPSOIL/PLANTING SOIL DEPTH (SEE NOTE 12 ON DRAWING NO. MIT-004) LEGEND:

EL = ELEVATION EXIST. = EXISTING PROP. = PROPOSED YR = YEAR

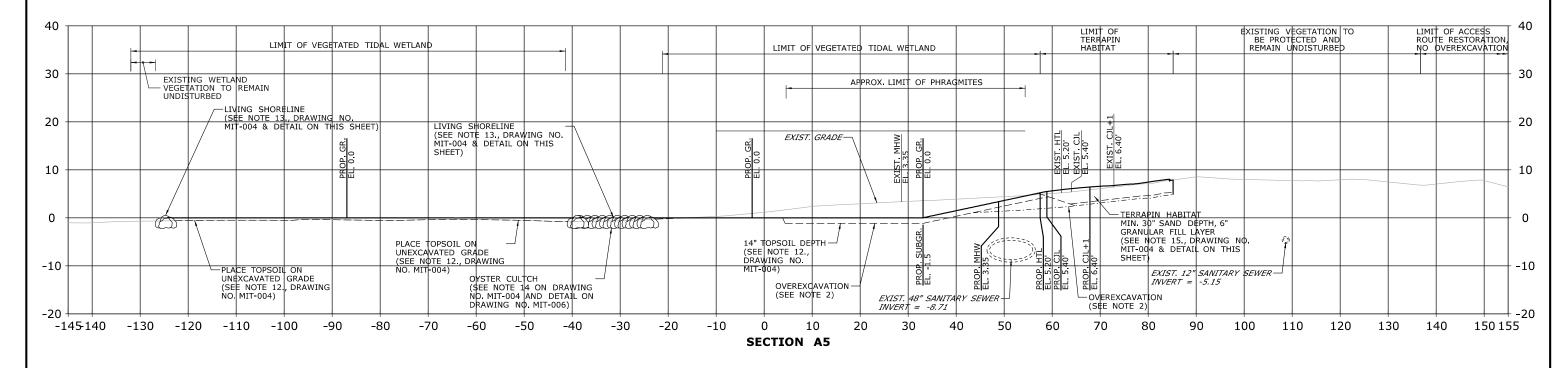
GR. = GRADE SUBGR. = SUBGRADE

MIN. = MINIMUM MAX. = MAXIMUM

CJL+1 = CT COASTAL JURISDICTION LINE +1

CJL = CT COASTAL JURISDICTION LINE HTL = HIGH TIDE LINE

MHW = MEAN HIGH WATER LINE



SCALE IN FEET ____ 10 SCALE 1" = 20'

V. ROBBINS T. ADINOLFI PPROVED

C. BROWN

BOLL

STATE OF CONNECTICUT DEPARTMENT OF TRANSPORTATION

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

NORWALK 0301-0176 **ACTIVITY 16** 8-28-19 WETLAND MITIGATION RAWING NO: (MIT-006) CA16-6

- SLOPE SEEDING AREA MIX BASED ON ITEM NO. 0950202A - SHORELINE GRASS ESTABLISHMENT.
- 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".
- REFER TO THE WETLAND MITIGATION AREA PLANS, DRAWING NO. MIT-004 FOR PROPOSED GRADING IN THE WETLAND CREATION SITE.
- 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.
- 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

- 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
- 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.
- 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

REMOVAL OF INVASIVE PLANT SPECIES WILL BE PAID UNDER #0952051A - CONTROL AND REMOVAL OF

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

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.

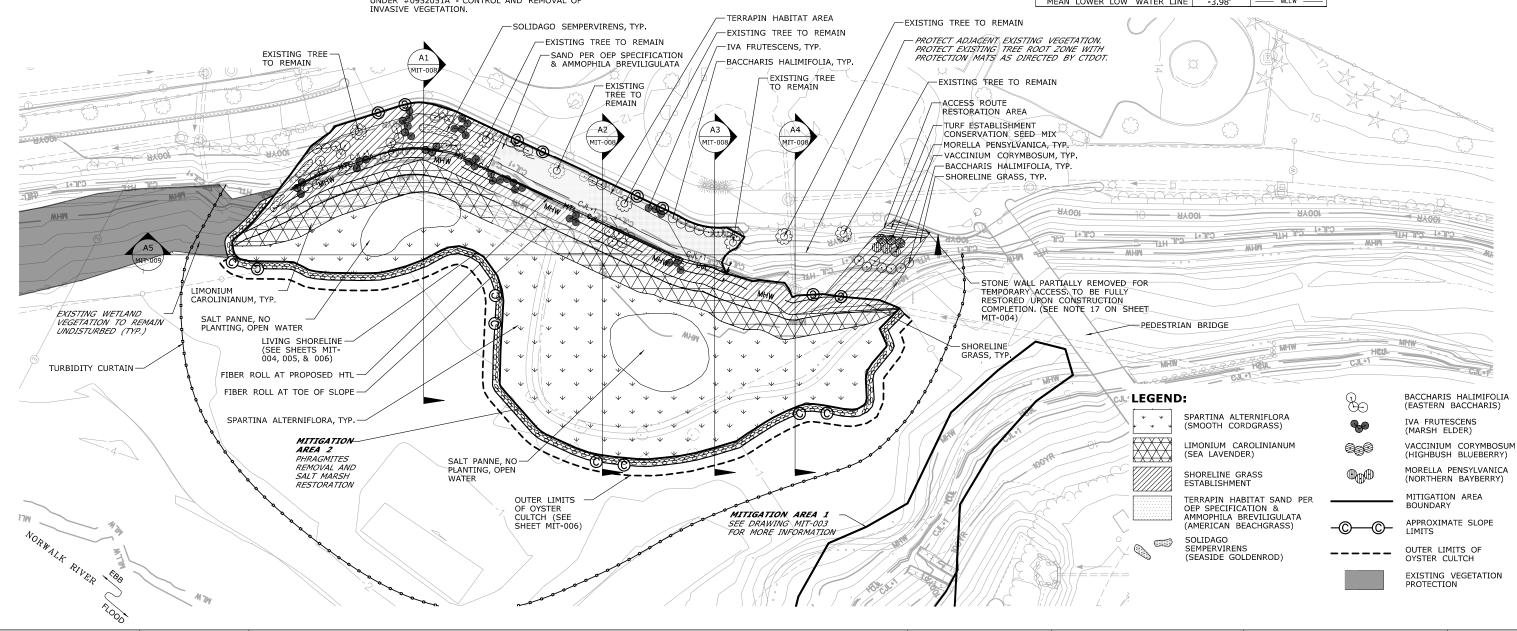
FIBER ROLL SHALL BE PAID FOR UNDER ITEM #0949315A -

THE COST OF INSTALLING WETLAND CREATION SIGNS (31-5478) WILL BE PAID FOR UNDER ITEM #1208932A SIGN FACE - SHEET ALUMINUM (TYPE IV RETROREFLECTIVE

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.	
ВН	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'	— нть —		
MEAN HIGH WATER LINE	3.35'	— мнw —		
MEAN LOW WATER LINE	-3.72'	MLW		
MEAN LOWER LOW WATER LINE	-3 98'	MLLW		



SCALE IN FEET 20 SCALE 1" = 40' V. ROBBINS

C. BROWN

T. ADINOLFI BOLL



STATE OF CONNECTICUT DEPARTMENT OF TRANSPORTATION

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

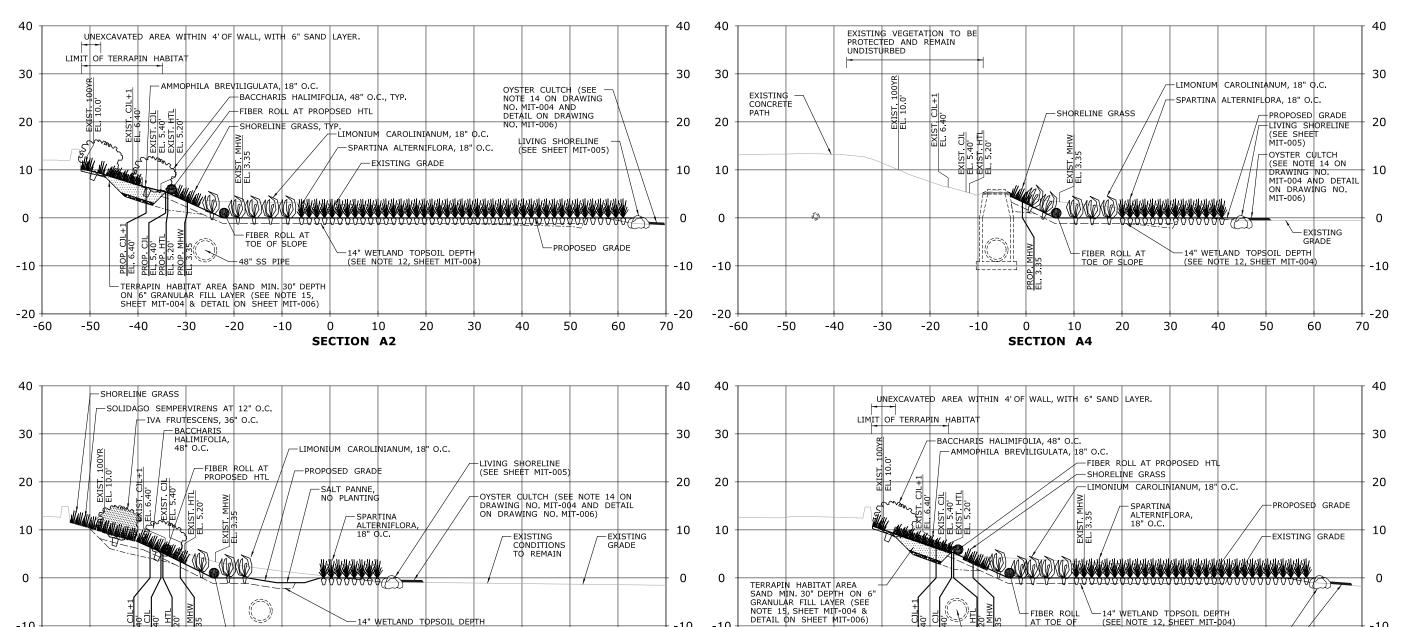
NORWALK ACTIVITY 16 WETLAND MITIGATION

0301-0176 8-28-19 RAWING NO: (MIT-007) CA16-7

- 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



-10

-20

40

20

30

-10

-20

-60

-50

-40

-30

ALE:	DRAWN:	SIGNATURE BLOCK:
CCALE IN FEET	V. ROBBINS	HNTB Corporation Engineers Architects Planners
0 10 20	CHECKED: T. ADINOLFI	Engineers Authentics Frammers 55 Capital Boulevard, 4th Floor Tel (880) 257-7374 Rocky Hill, CT 08067 Fax (860) 257-7394
SCALE 1" = 20'	APPROVED: C. BROWN	

-60

-FIBER ROLL AT TOE OF SLOPE

-40

-30

SECTION A1

-20

-50

-10

-20

-90

-80

-70

-14" WETLAND TOPSOIL DEPTH (SEE NOTE 12, SHEET MIT-004)

-10

0

10



-20

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

AT TOE OF

SECTION A3

10

48" SS PIPE

0

-10

TOWN:	PROJECT NO.:
NORWALK	0301-0176
DRAWING TITLE:	DATE:
ACTIVITY 16	8-28-19
WETLAND MITIGATION	DRAWING NO:

(MIT-008)

60

(SEE SHEET MIT-005)

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OYSTER CULTCH (SEE NOTE 14 ON DRAWING NO.

30

MIT-004 AND DETAIL ON DRAWING NO. MIT-006)

20

-10

-20

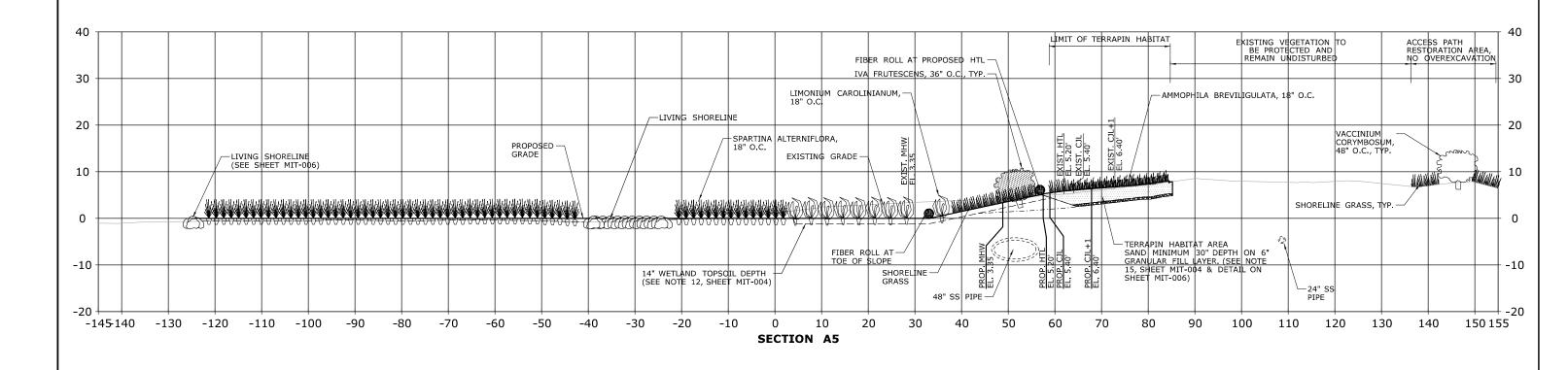
CA16-8

70

- 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



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

V. ROBBINS

CHECKED:
T. ADINOLFI

APPROVED:
C. BROWN

SIGNATURE BLOCK:

SIGNATURE BLOCK:

BLOCK:

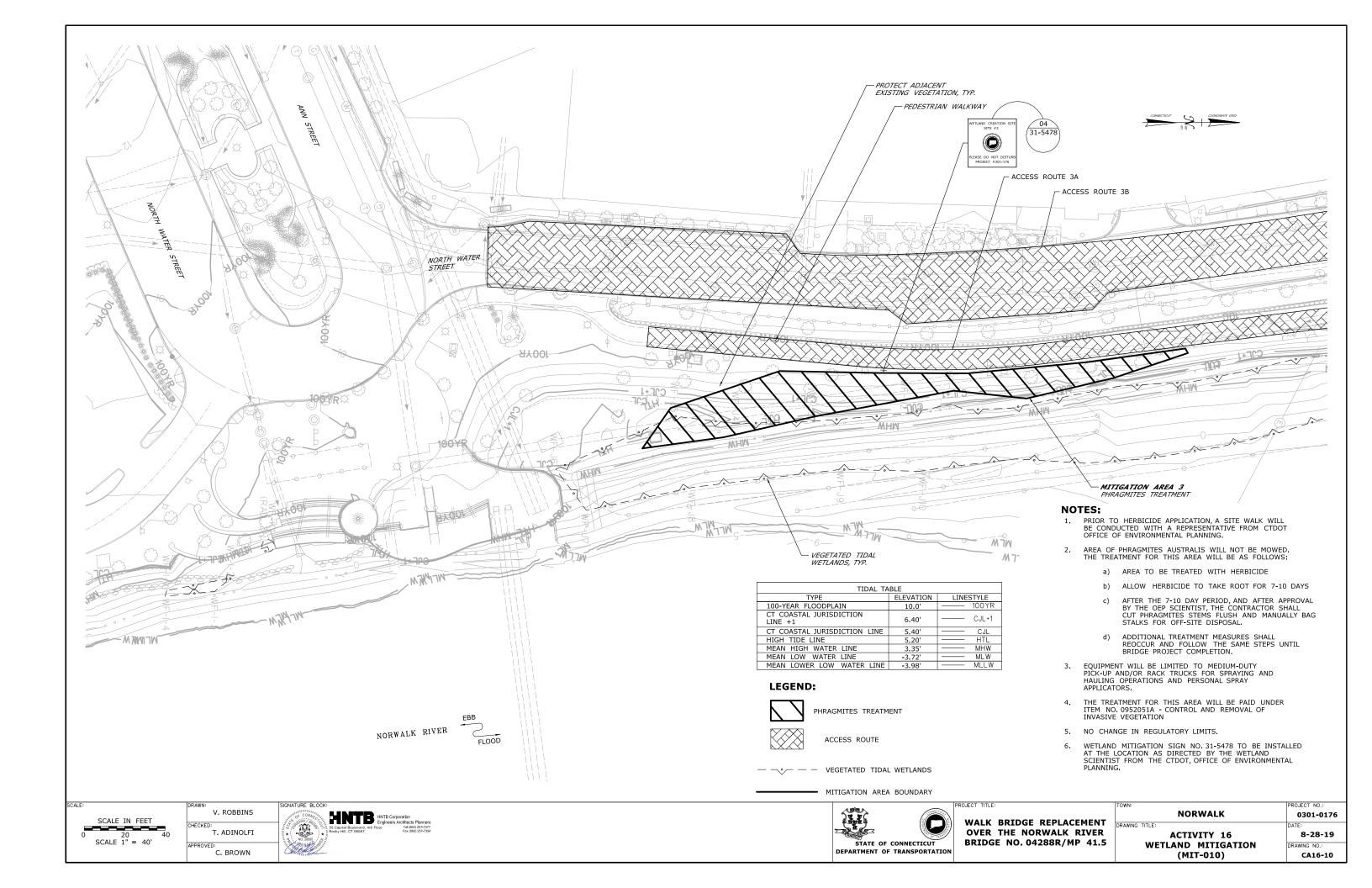
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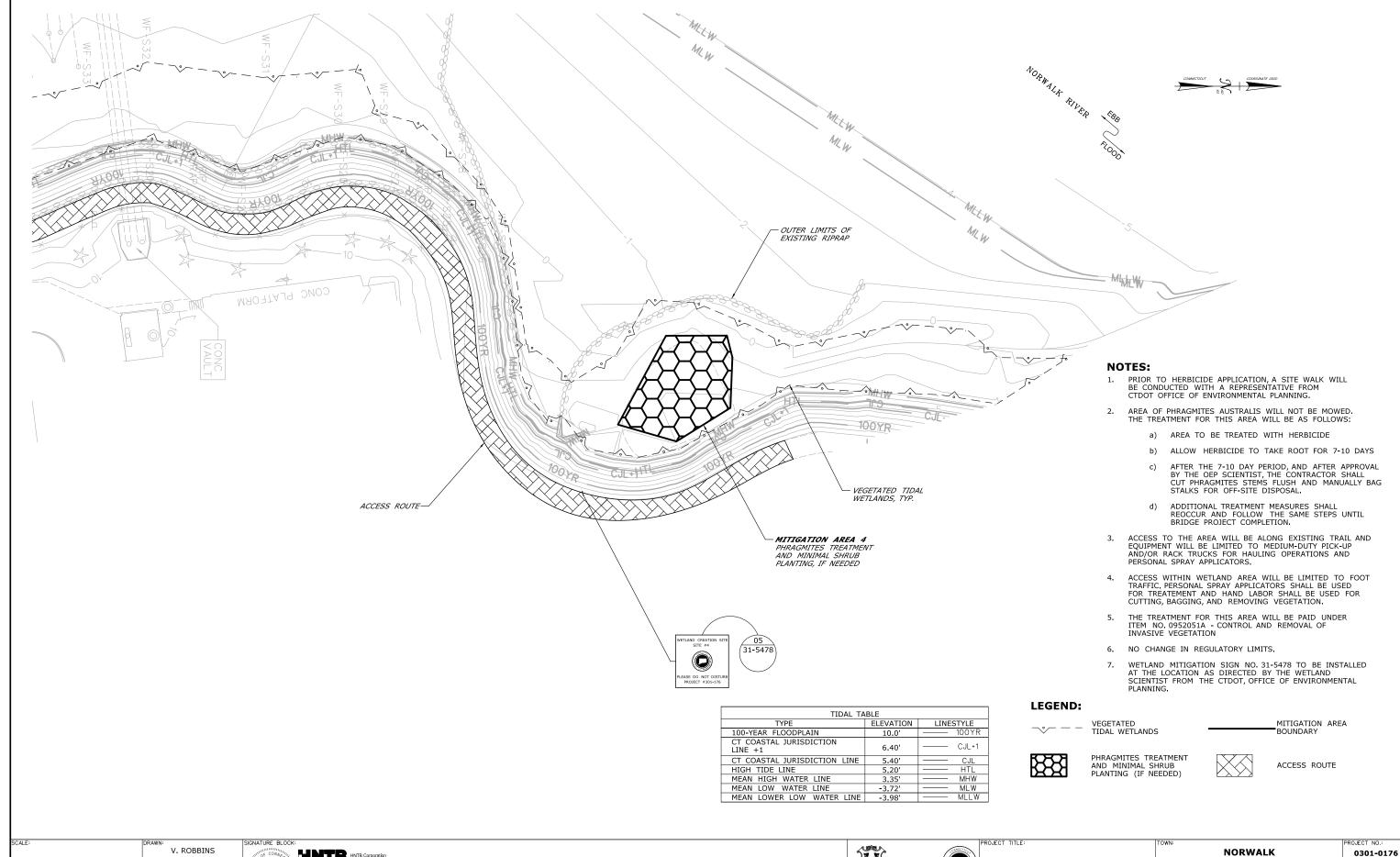


WALK BRIDGE REPLACEMENT OVER THE NORWALK RIVER BRIDGE NO. 04288R/MP 41.5

CA16-9

(MIT-009)





SCALE IN FEET 20 SCALE 1" = 40'

V. ROBBINS T. ADINOLFI APPROVED: C. BROWN

Det 2



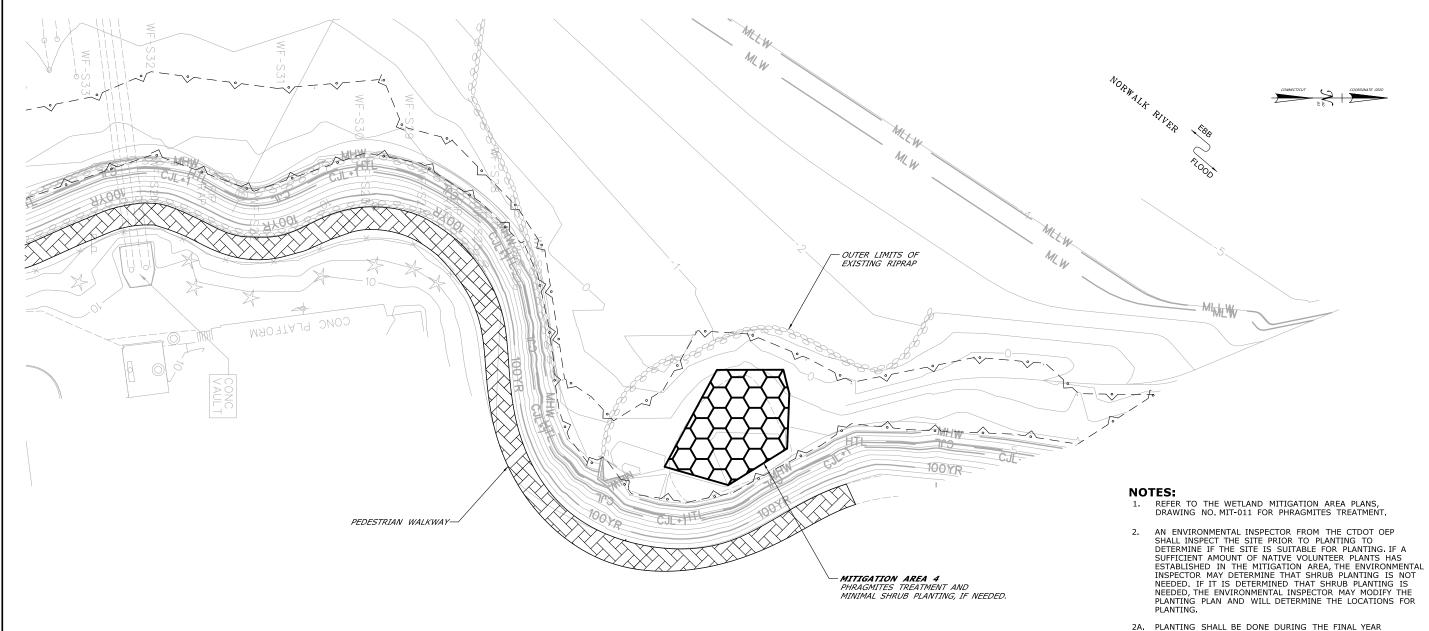
STATE OF CONNECTICUT

DEPARTMENT OF TRANSPORTATION

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

ACTIVITY 16 WETLAND MITIGATION

8-28-19 RAWING NO: (MIT-011) 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

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'	— MIIW			

- NEEDED. IF IT IS DETERMINED THAT SHRUB PLANTING IS NEEDED, THE ENVIRONMENTAL INSPECTOR MAY MODIFY THE
- 2A. PLANTING SHALL BE DONE DURING THE FINAL YEAR OF BRIDGE CONSTRUCTION, IF NEEDED.
- 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.
- PAYMENT FOR THE WORK WILL BE MADE UNDER THE FOLLOWING ITEMS:

JOWING TIEMS:
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).

SCALE IN FEET 20 SCALE 1" = 40'

V. ROBBINS T. ADINOLFI

C. BROWN

APPROVED:

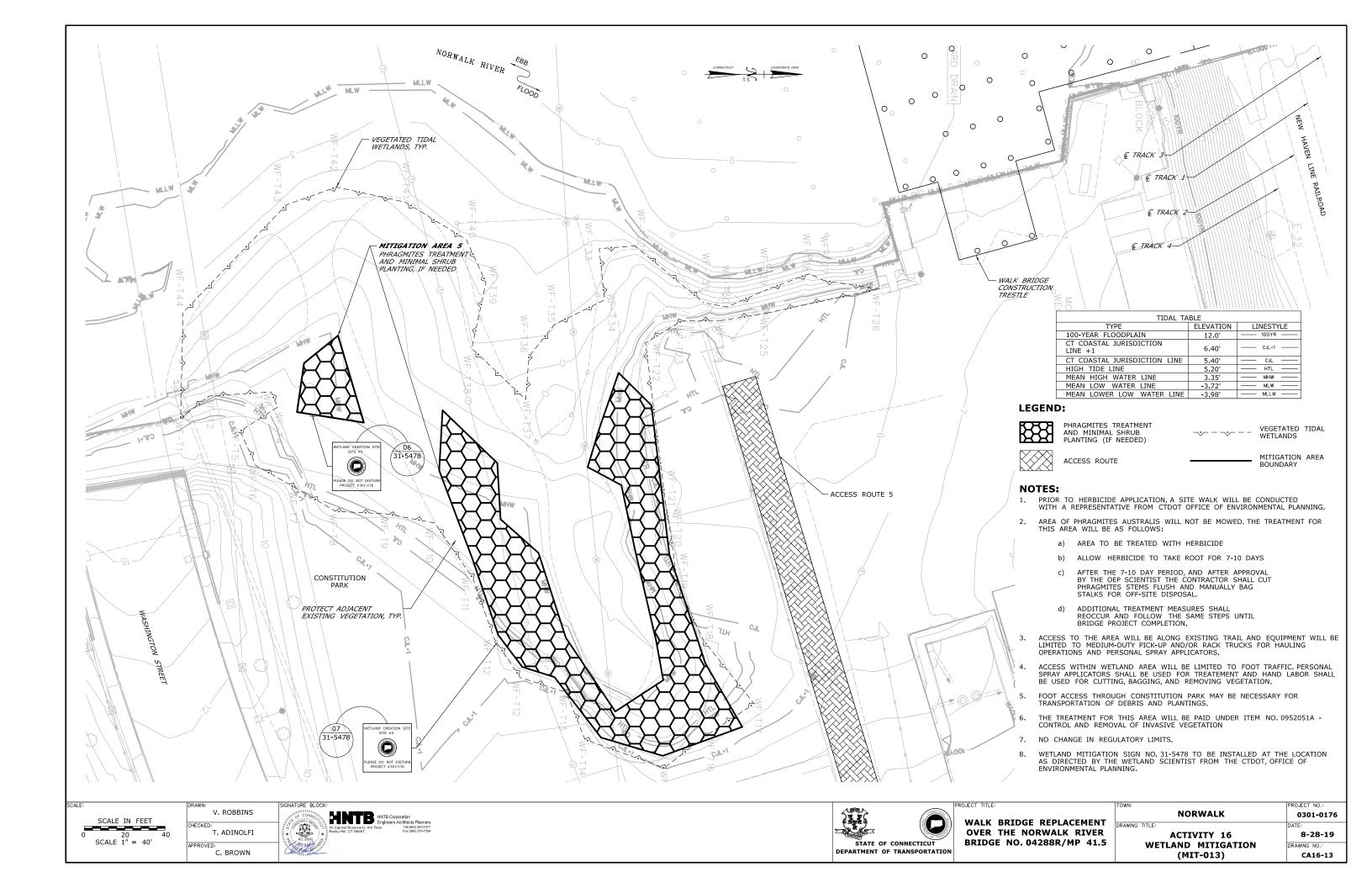


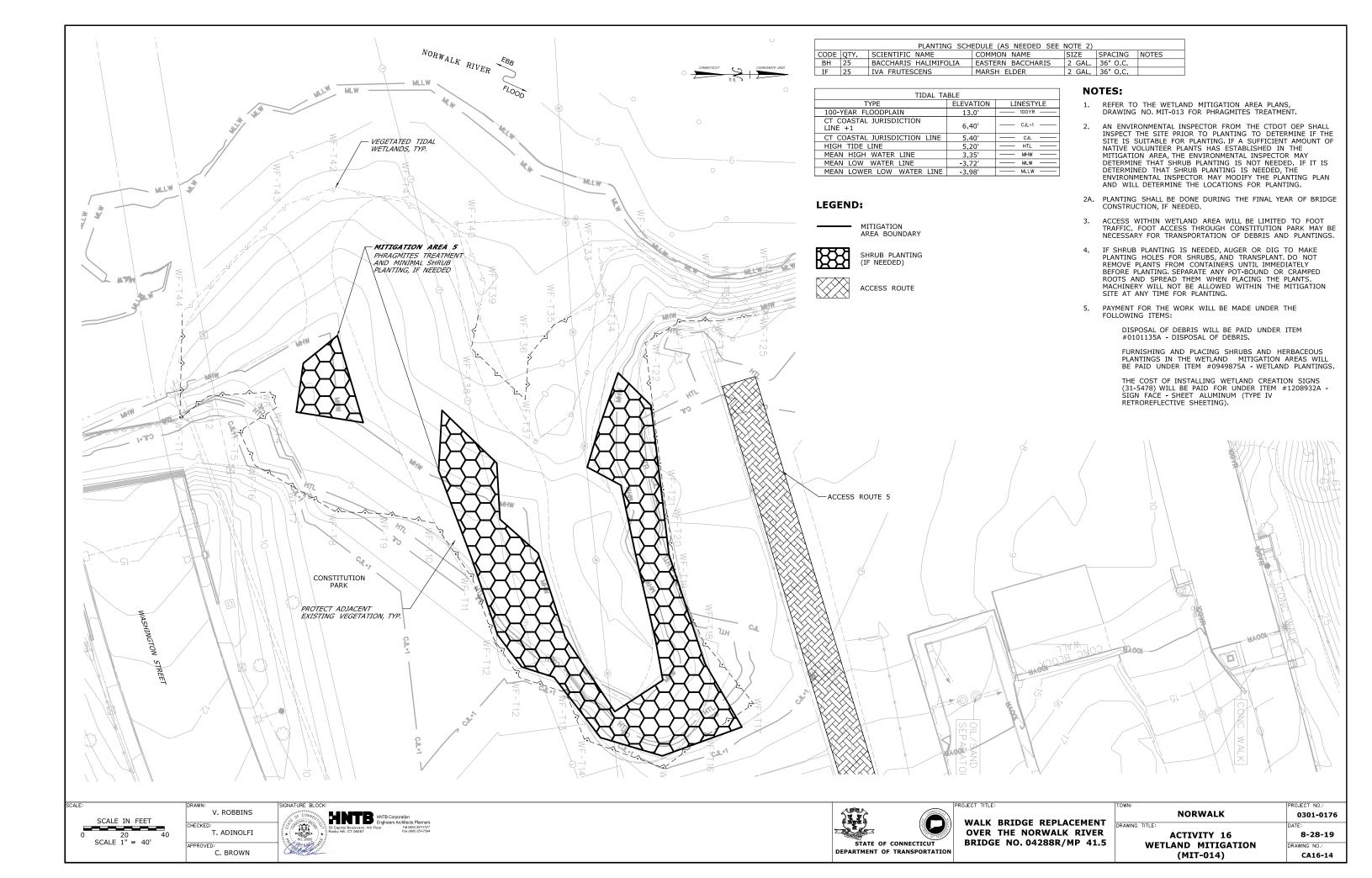
WALK BRIDGE REPLACEMENT OVER THE NORWALK RIVER BRIDGE NO. 04288R/MP 41.5 NORWALK

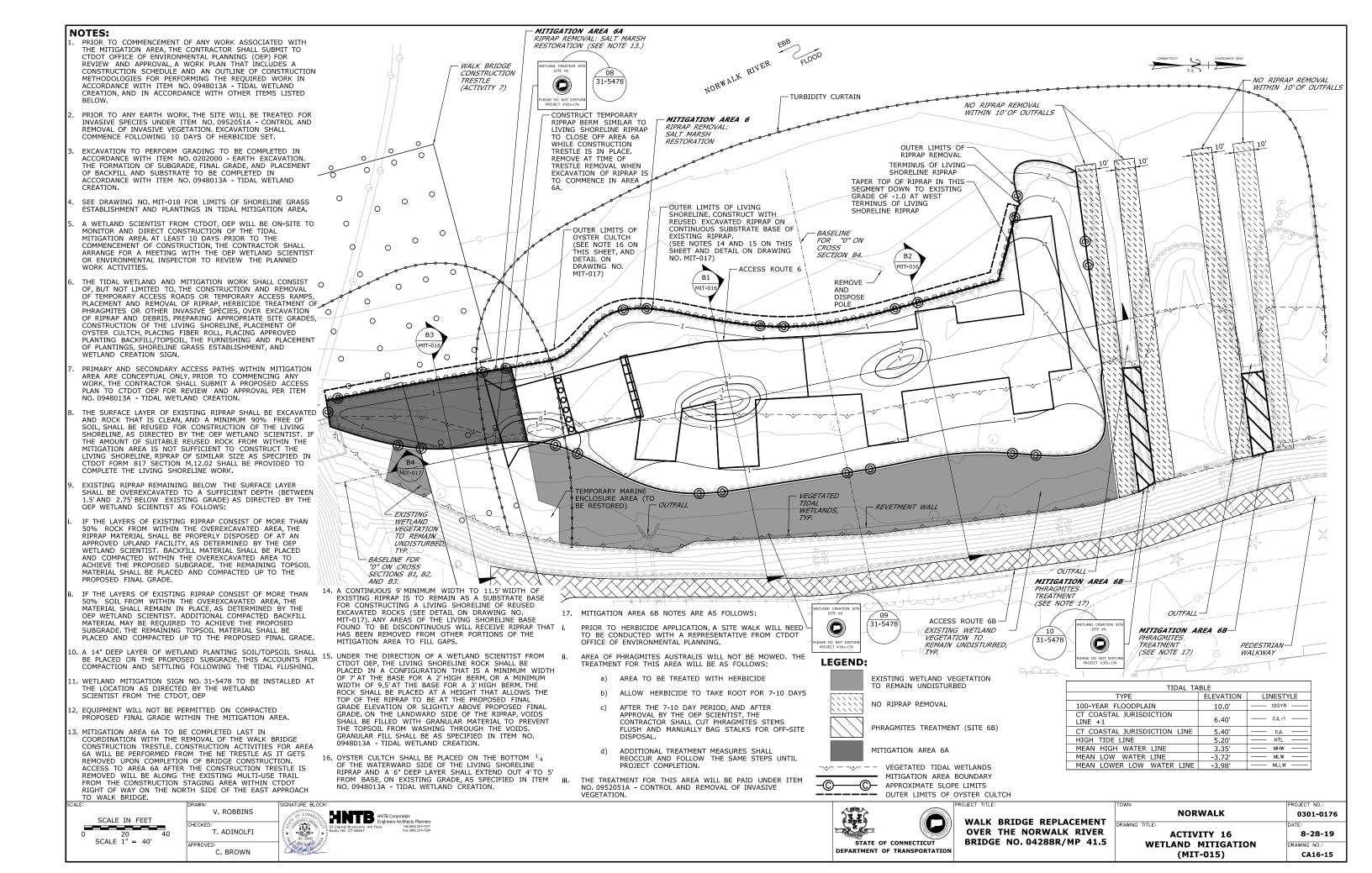
ACTIVITY 16 WETLAND MITIGATION (MIT-012)

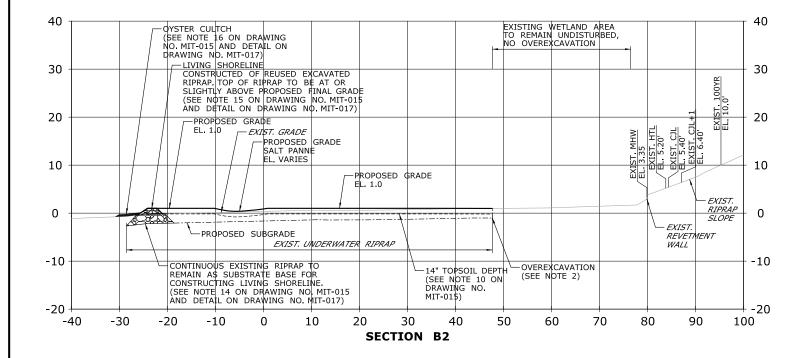
8-28-19 RAWING NO: CA16-12

0301-0176









- 1. SEE SECTIONS FOR TOPSOIL DEPTHS.
- 2. OVEREXCAVATION TO BE SEQUENCED AS FOLLOWS:

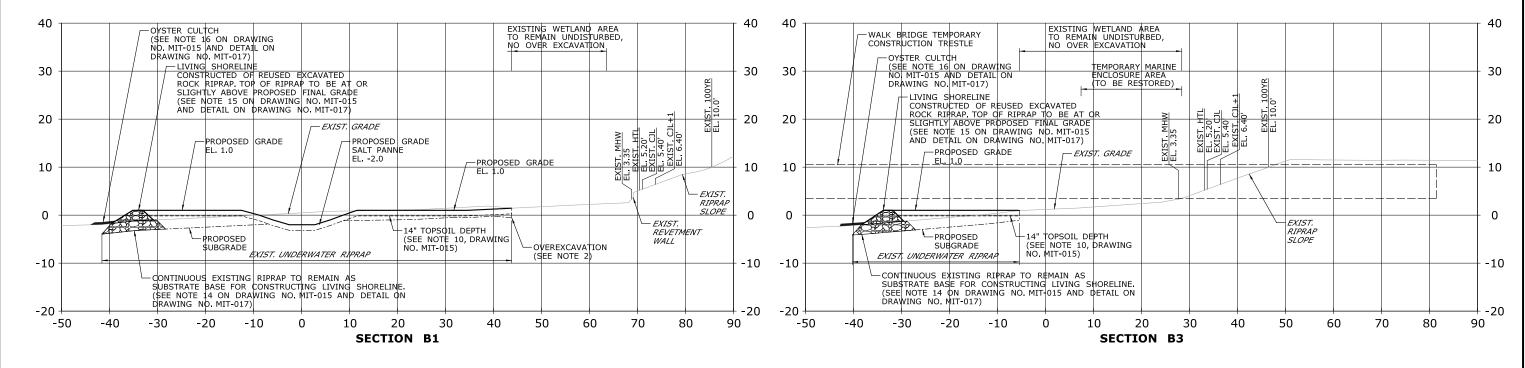
i. EXCAVATE SURFACE LAYER OF EXISTING RIPRAP TO REMOVE AND REUSE ROCK THAT IS CLEAN AND A MINIMUM 90% FREE OF SOIL FOR CONSTRUCTION OF LIVING SHORELINE.

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



SCALE IN FEET

0 10 20

SCALE 1" = 20'

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

SIGNATURE BLOCK:

HINTED HINTED HTS Corporation
Engineers Architects Planne
Fax (800) 257-73

Rocky Hill, CT 06067

Fax (800) 257-73



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

TOWN: PROJECT NO.:

0301-0176

DRAWING TITLE: DATE:

ACTIVITY 16

WETLAND MITTIGATION

ACTIVITY 16
WETLAND MITIGATION
(MIT-016)

DRAWING NO.: CA16-16

WIDTH OF CONSTRUCTED LIVING SHORELINE BASE (VARIES) FILL VOIDS ON LANDWARD SIDE OF RIPRAP BERM WITH GRANULAR MATERIAL 7' MIN. @ 2' HT. (AS SPECIFIED IN ITEM NO. 0948013A - TIDAL WETLAND CREATION) 9.5' MIN. @ 3' HT. TOP OF BERM HEIGHT OF RIPRAP BERM VARIES APPROX. 2' TO 3' ABOVE EXISTING PLACE TOP OF RIPRAP -AT OR SLIGHTLY ABOVE PROPOSED FINAL GRADE 2' MIN, WIDTH GRADE (EXCEPT WHERE TAPERING OCCURS) PLACE 6" DEEP LAYER OF OYSTER CULTCH ON THE BOTTOM $^{1}\!\!/_{4}$ OF THE WATERWARD SIDE OF PROPOSED FINAL -14" TOPSOIL--EXISTING GRADE LIVING SHORELINE RIPRAP AND EXTEND LAYER 4'TO 5'OUT GRADE FROM BASE. EXISTING -GRADE EDGE OF EXISTING -RIPRAP AT PERIMETER WIDTH OF EXIST. RIPRAP BASE -EXCAVATE SURFACE LAYER OF EXISTING RIPRAP AND REUSE CLEAN ROCK FOR CONSTRUCTION OF LIVING SHORELINE BY PLACING ROCKS ON EXISTING RIPRAP BASE. OVEREXCAVATE REMAINING RIPRAP LAYERS AS DIRECTED BY THE OEP WETLAND SCIENTIST (SEE NOTE 2 ON THIS SHEET AND NOTES 8 AND 9 ON DRAWING UNDISTURBED EXISTING RIPRAP TO REMAIN AS SUBSTRATE BASE FOR LIVING SHORELINE RIPRAP (VARIES) 9' MIN. @ 2' HT. 11.5' MIN @ 3' HT. -PLACE BACKFILL MATERIAL WHERE NEEDED TO BRING SUBGRADE TO 14" BELOW PROPOSED FINAL GRADE FOR TOPSOIL PLACEMENT (SEE NOTE 9 ON DRAWING NO. MIT-015)

LIVING SHORELINE DETAIL WITH REUSED RIPRAP

NOTES:

- 1. SEE SECTIONS FOR TOPSOIL DEPTHS.
- 2. OVEREXCAVATION TO BE SEQUENCED AS FOLLOWS:

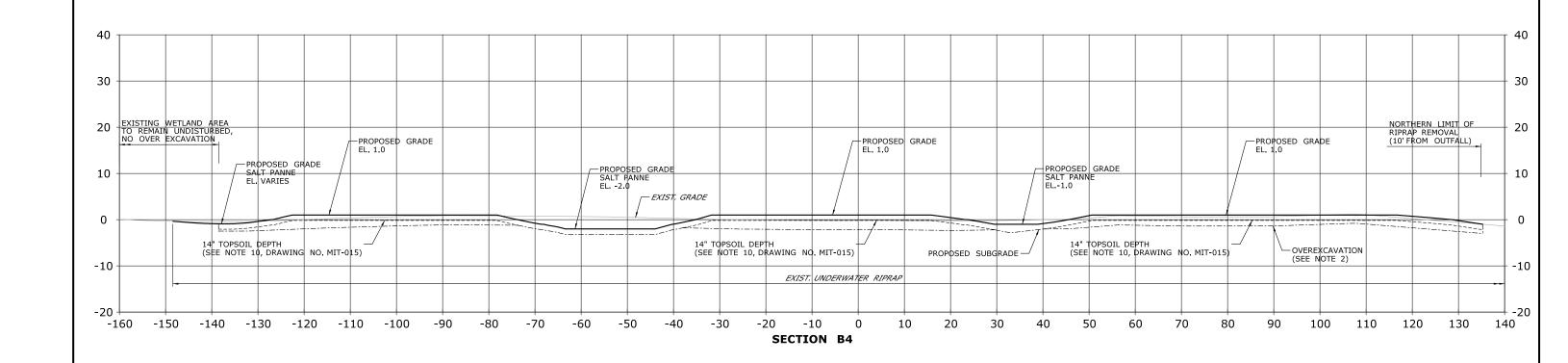
i, EXCAVATE SURFACE LAYER OF EXISTING RIPRAP TO REMOVE AND REUSE ROCK THAT IS CLEAN AND A MINIMUM 90% FREE OF SOIL FOR CONSTRUCTION OF LIVING SHORELINE.

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



V. ROBBINS SCALE IN FEET T. ADINOLFI SCALE 1" = 20' APPROVED: Det 2 C. BROWN

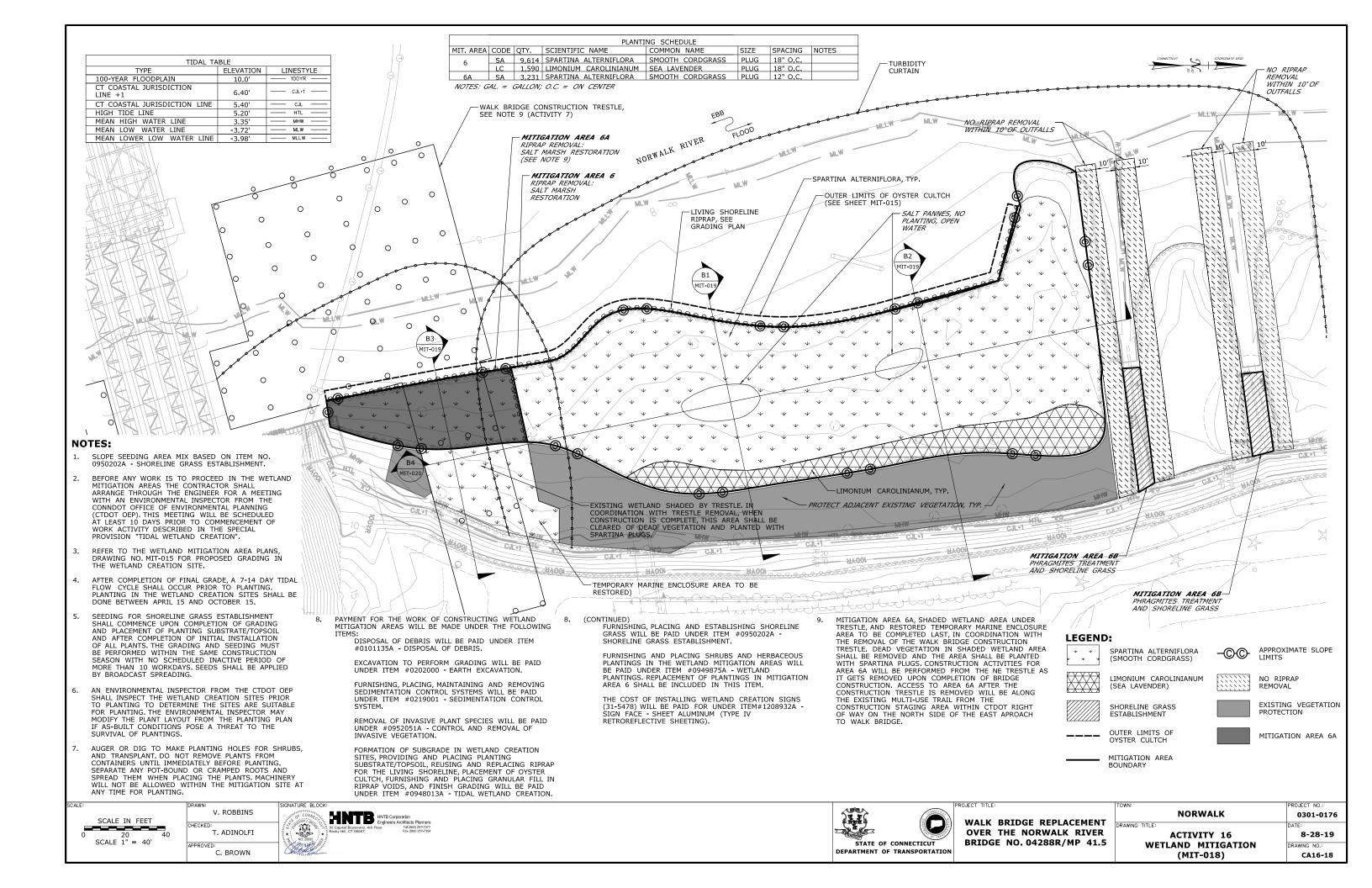
STATE OF CONNECTICUT DEPARTMENT OF TRANSPORTATION

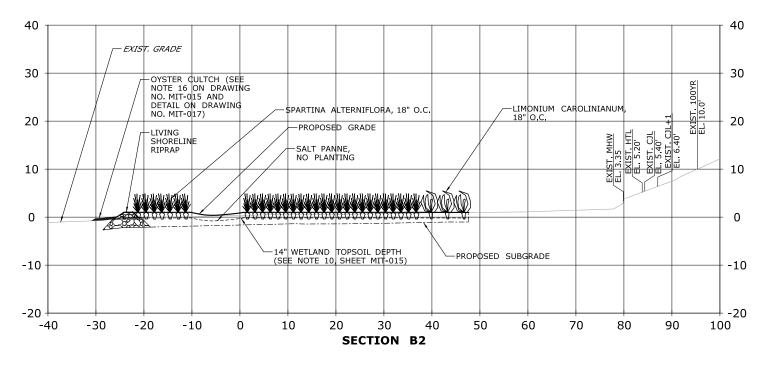
WALK BRIDGE REPLACEMENT **OVER THE NORWALK RIVER** BRIDGE NO. 04288R/MP 41.5

NORWALK 0301-0176 **ACTIVITY 16** 8-28-19 RAWING NO:

WETLAND MITIGATION (MIT-017)

CA16-17



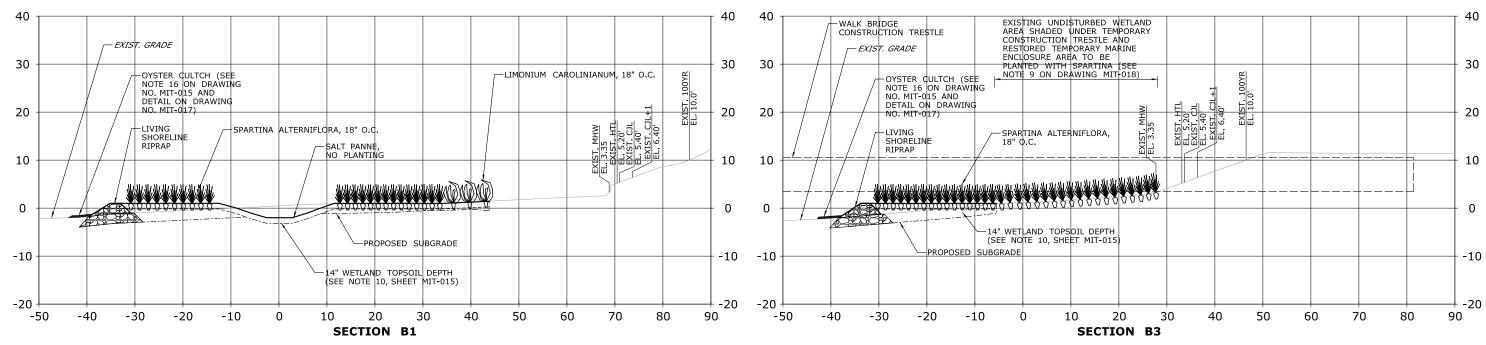


NOTES:

- 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



SCALE IN FEET

0 10 20

SCALE 1" = 20'

DRAWN:

V. ROBBINS

CHECKED:

T. ADINOLFI

APPROVED:

C. BROWN



STATE OF CONNECTICUT
DEPARTMENT OF TRANSPORTATION

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

CA16-19

(MIT-019)

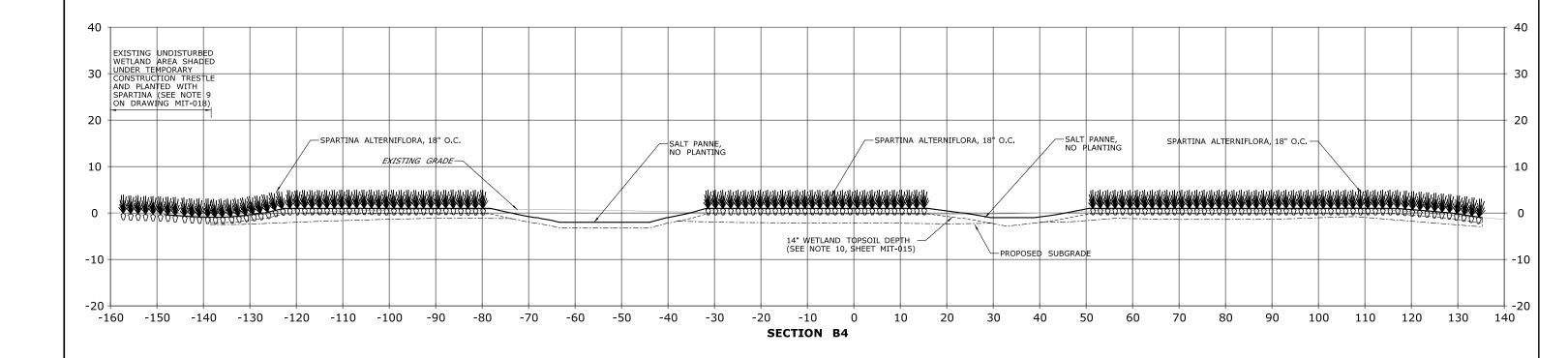
NOTES:

LEGEND:

1. SEE MIT-018 MITIGATION AREA 6 PLANTING PLAN

O.C. = ON CENTER

2. SEE GRADING DRAWING (MIT-015) AND SECTIONS (MIT-016 AND MIT-017) FOR OVEREXCAVATION DEPTHS AND LIMITS.



SCALE IN FEET

0 10 20

SCALE 1" = 20'

DRAWN:

V. ROBBINS

CHECKED:

T. ADINOLFI

APPROVED:

C. BROWN

SIGNATURE BLOCK:

CONNE Block

SC Copinal Boulevard. 4th Roor Tale880/25

Fax (880) 25

Fax (880) 25

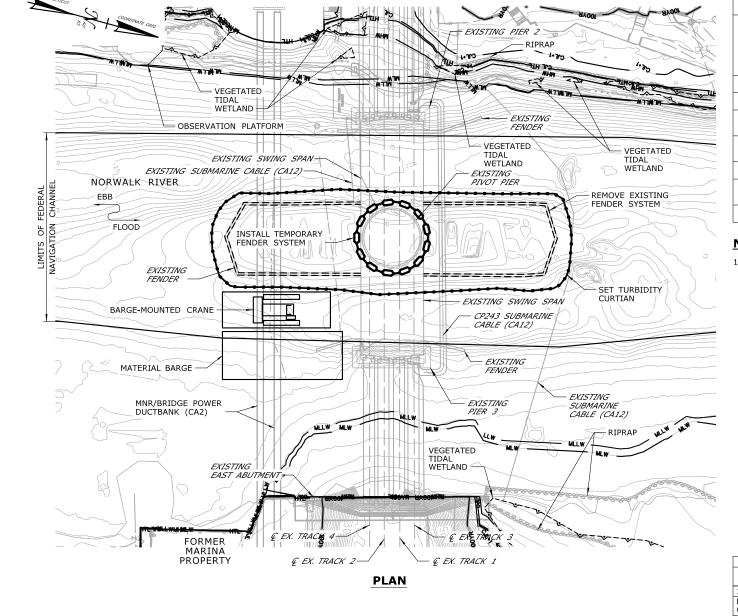


WALK BRIDGE REPLACEMENT OVER THE NORWALK RIVER BRIDGE NO. 04288R/MP 41.5

TOWN:	PROJECT NO.:
NORWALK	0301-017
DRAWING TITLE:	DATE:
ACTIVITY 16	8-28-19
WETLAND MITIGATION	DRAWING NO.:

CA16-20

(MIT-020)



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,

MOBILIZE BARGES AND EQUIPMENT TO NORTH SIDE OF BRIDGE, SET TURBIDITY CURTAIN.

DREDGE CHANNEL ON NORTH SIDE OF BRIDGE.

NOTES:

SEE VESSEL BERTHING PLAN (DWG. GEN-9) FOR TYPICAL BARGE SIZES.

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

SCALE 1" = 80'

W. GREGORY CHECKED: T. ADINOLFI APPROVED:

C. BROWN

HNTB Corporation



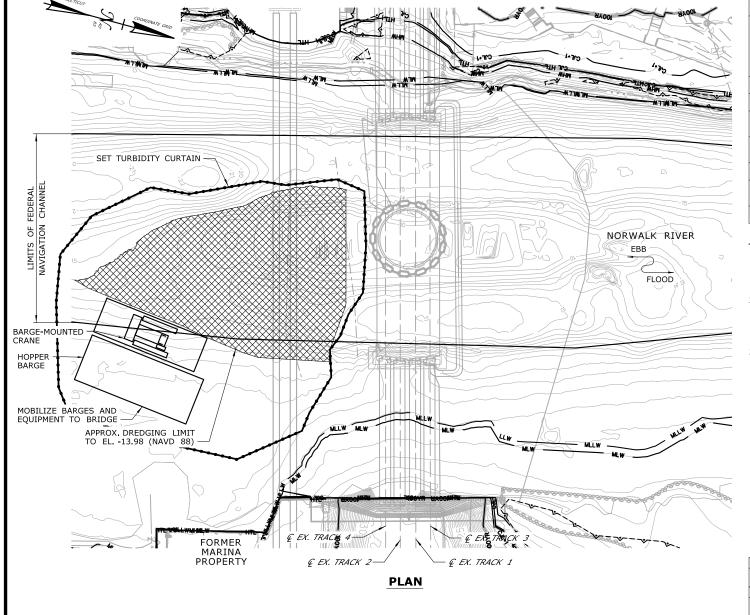
STATE OF CONNECTICUT

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

ROJECT NO.: **NORWALK** 0301-0176 DRAWING TITLE: REV 02-17-21

ACTIVITY 17 DREDGING OPERATIONS DRAWING NO.: (SHEET 1 OF 7)

CA17-1



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,

MOBILIZE BARGES AND EQUIPMENT TO NORTH SIDE OF BRIDGE, SET TURBIDITY CURTAIN.

DREDGE CHANNEL ON NORTH SIDE OF BRIDGE.

NOTES:

- EXCAVATED MATERIAL AND DEWATERED WASTEWATERS SHALL BE MANAGED IN ACCORDANCE WITH THE ENVIRONMENTAL SPECIAL PROVISIONS AND CTDEEP REQUIREMENTS.
- 2. 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.
- SEE VESSEL BERTHING PLAN (DWG. GEN-9) FOR TYPICAL BARGE SIZES.

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

SCALE 1" = 80'

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





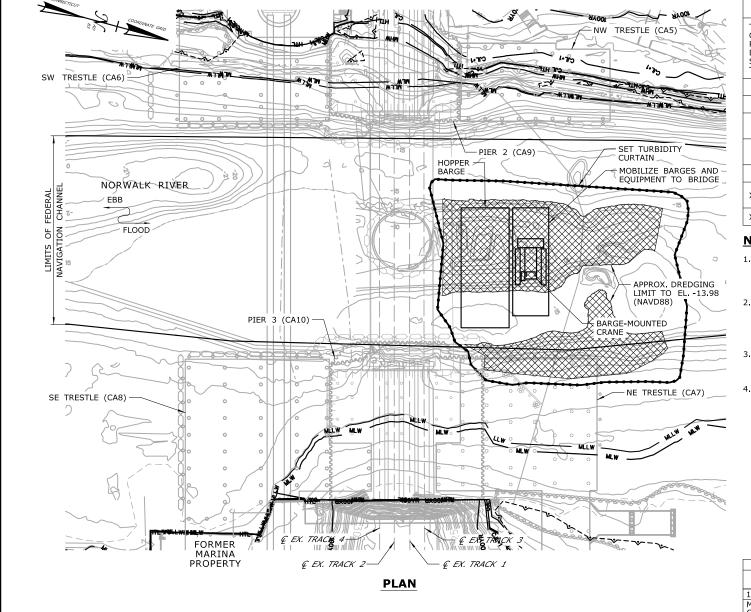
STATE OF CONNECTICUT

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

ROJECT NO. **NORWALK** 0301-0176 DRAWING TITLE:

ACTIVITY 17 DREDGING OPERATIONS DRAWING NO.: (SHEET 2 OF 7)

REV 02-17-21 CA17-2



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,

- MOBILIZE BARGES AND EQUIPMENT TO NORTH SIDE OF BRIDGE, SET TURBIDITY CURTAIN.
- DREDGE CHANNEL ON NORTH SIDE OF BRIDGE.

NOTES:

- 1. EXCAVATED MATERIAL AND DEWATERED WASTEWATERS SHALL BE MANAGED IN ACCORDANCE WITH THE ENVIRONMENTAL SPECIAL PROVISIONS AND CTDEEP REQUIREMENTS.
- 2. 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.
- DREDGING REQUIRED AROUND THE EXISTING PIERS WILL TAKE PLACE WITHIN MARINE ENCLOSURES IN CONJUNCTION WITH PIER REMOVAL SEE ACTIVITY 14.
- 4. SEE VESSEL BERTHING PLAN (DWG. GEN-9) FOR TYPICAL BARGE SIZES,

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

SCALE 1" = 80'

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

HNTB Corporation



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

ROJECT NO.: **NORWALK** 0301-0176 DRAWING TITLE:

ACTIVITY 17 DREDGING OPERATIONS DRAWING NO.: (SHEET 3 OF 7)

REV 02-17-21 CA17-3

APPROX, DREDGING LIMIT TO EL -8.0 (NAVD88) OBSERVATION RIVER PLATFORM 7777 MARITIME AQUARIUM DOCK \ • NORWALK EBB **VEGETATED** TIDAL WETLAND **HOPPER** BARGE-MOUNTED BARGE CRANE MOBILIZE BARGES AND EQUIPMENT TO SITE SHEFFIELD ISLAND FERRY DOCK VEGETATED TIDAL WETLAND APPROX DREDGING LIMIT TO EL. -8.0 (NAVD88) RIPRAP INSTALL MARINE ENCLOSURE (SEE NOTES 4 & 5) SET TURBIDITY CURTAIN **VEGETATED** TIDAL TEMPORARY FENDER SYSTEM WETLAND SR 136/WASHINGTON ST. EXISTING STROFFOLINO BRIDGE **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

- MOBILIZE BARGES AND EQUIPMENT TO VESSEL DOCKS.
- SET TURBIDITY CURTAIN AND INSTALL MARINE ENCLOSURE.
- DREDGE ALONG SHORELINE.

NOTES:

- 1, EXISTING DOCK LOCATIONS SHOWN FOR REFERENCE. DOCKS WILL BE REMOVED PRIOR TO DREDGING. SEE ACTIVITY 3.
- 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.
- MARINE ENCLOSURE WILL ONLY BE REQUIRED IF DREDGING OCCURS OUTSIDE THE MONTHS OF DECEMBER AND JANUARY.
- 5. 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)
100-YEAR FLOODPLAIN	100 YR	12.0
MAX. ELEVATION OF LAND CAPABLE OF SUPPORTING TIDAL VEGETATION		6.4
CT COASTAL JURISDICTION LINE	CJL	5.4
HIGH TIDE LINE	HTL	5.2
MEAN HIGH WATER LINE	MHW	3.35
MEAN LOW WATER LINE	MLW	-3.72
MEAN LOWER LOW WATER LINE	MLLW	-3.98

ROJECT NO.: **NORWALK** 0301-0176

REV 02-17-21

CA17-4

DRAWING TITLE: **ACTIVITY 17** DREDGING OPERATIONS DRAWING NO.: (SHEET 4 OF 7)

W. GREGORY SCALE 1" = 80' CHECKED: T. ADINOLFI APPROVED:



HNTB Corporation





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

DOCKS INSTALL MARINE **ENCLOSURE** TEMPORARY FENDER SYSTEM PERMANENT BULKHEAD (CA4) RIPRAP PROPOSED EVERSOURCE BYPASS APPROXIMATE LOCATION (BY OTHERS) MOBILIZE BARGES AND EQUIPMENT TO SITE **HOPPER BARGE** BARGE-MOUNTED CRANE VEGETATED TIDAL APPROX. DREDGING LIMIT WETLAND TO EL. -11.0 (NAVD88) MARINE STAGING SET TURBIDITY CURTAIN YARD **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

- MOBILIZE BARGES AND EQUIPMENT TO MARINE STAGING YARD,
- SET TURBIDITY CURTAIN AND INSTALL MARINE ENCLOSURE.
- DREDGE ALONG IN FRONT OF BULKHEAD.

NOTES:

- 1. EXCAVATED MATERIAL AND DEWATERED WASTEWATERS SHALL BE MANAGED IN ACCORDANCE WITH THE ENVIRONMENTAL SPECIAL PROVISIONS AND CTDEEP REQUIREMENTS.
- 2. 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.
- 3. SEE VESSEL BERTHING PLAN (DWG. GEN-9) FOR TYPICAL BARGE SIZES.
- 4. MARINE ENCLOSURE WILL ONLY BE REQUIRED IF DREDGING OCCURS OUTSIDE THE MONTHS OF DECEMBER AND JANUARY.

ELEVATION TABLE		
CONT	OUR ELEVATION (NAVD88)	
100	YR 14.0	
	+1 6.4	
E CJI	_ 5.4	
HTI	L 5.2	
MHV	N 3.35	
ML\	N -3.72	
IE MLL	W -3.98	
	CONTO	

SCALE 1" = 80'

W. GREGORY CHECKED: T. ADINOLFI APPROVED:

C. BROWN

HNTB Corporation



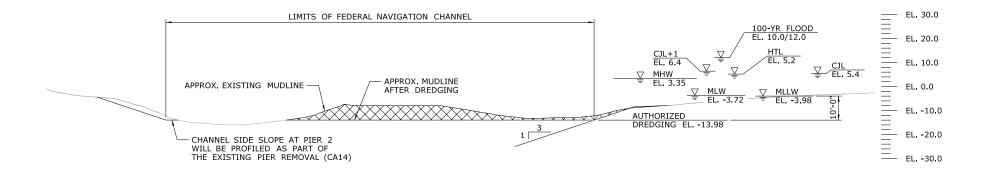
STATE OF CONNECTICUT

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

TOWN: PROJECT NO.: **NORWALK** 0301-0176 DRAWING TITLE:

ACTIVITY 17 DREDGING OPERATIONS DRAWING NO.: (SHEET 5 OF 7)

REV 05-11-21 CA17-5



TYPICAL SECTION AT BRIDGE

NOTES:

- 1. VERTICAL DATUM IS NAVD 88.
- 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)	
100-YEAR FLOODPLAIN	100 YR	10.0/12.0	
MAX. ELEVATION OF LAND CAPABLE OF SUPPORTING TIDAL VEGETATION	CJL+1	6.4	
CT COASTAL JURISDICTION LINE	CJL	5.4	
HIGH TIDE LINE	HTL	5.2	
MEAN HIGH WATER LINE	MHW	3.35	
MEAN LOW WATER LINE	MLW	-3.72	
MEAN LOWER LOW WATER LINE	MLLW	-3.98	

SCALE 1'' = 40'

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



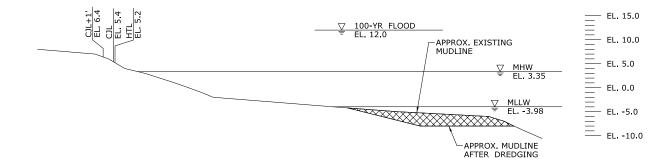
WALK BRIDGE REPLACEMENT **OVER THE NORWALK RIVER** BRIDGE NO. 04288R/MP 41.5

PROJECT NO.: NORWALK 0301-0176 DRAWING TITLE: REV 02-17-21 **ACTIVITY 17**

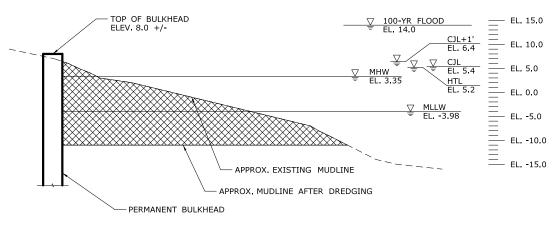
CA17-6

DREDGING OPERATIONS DRAWING NO.:

(SHEET 6 OF 7)



TYPICAL SECTION AT VESSEL DOCKS



TYPICAL SECTION AT MARINE STAGING YARD

NOTES:

- 1. VERTICAL DATUM IS NAVD 88.
- 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)	
100-YEAR FLOODPLAIN	100 YR	12.0/14.0	
MAX. ELEVATION OF LAND CAPABLE OF SUPPORTING TIDAL VEGETATION	CJL+1	6.4	
CT COASTAL JURISDICTION LINE	CJL	5.4	
HIGH TIDE LINE	HTL	5.2	
MEAN HIGH WATER LINE	MHW	3.35	
MEAN LOW WATER LINE	MLW	-3.72	
MEAN LOWER LOW WATER LINE	MLLW	-3.98	

SCALE 1" = 20'CHECKED:

W. GREGORY T. ADINOLFI APPROVED: C. BROWN



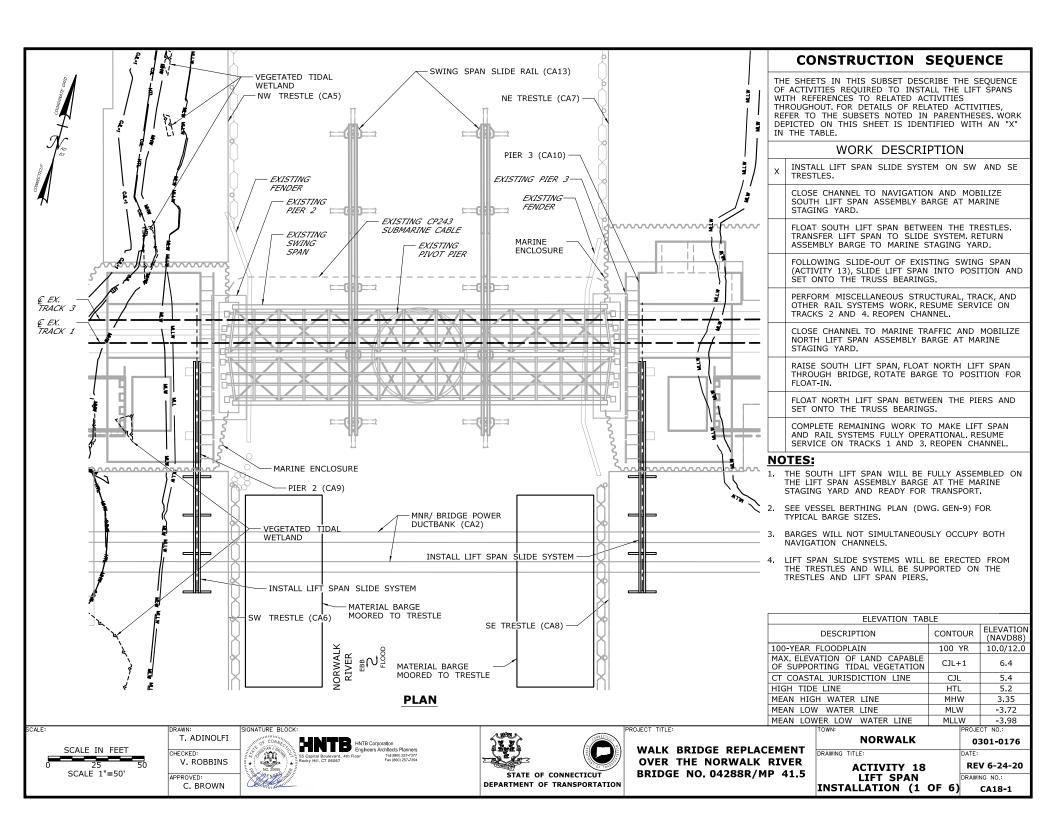
DEPARTMENT OF TRANSPORTATION

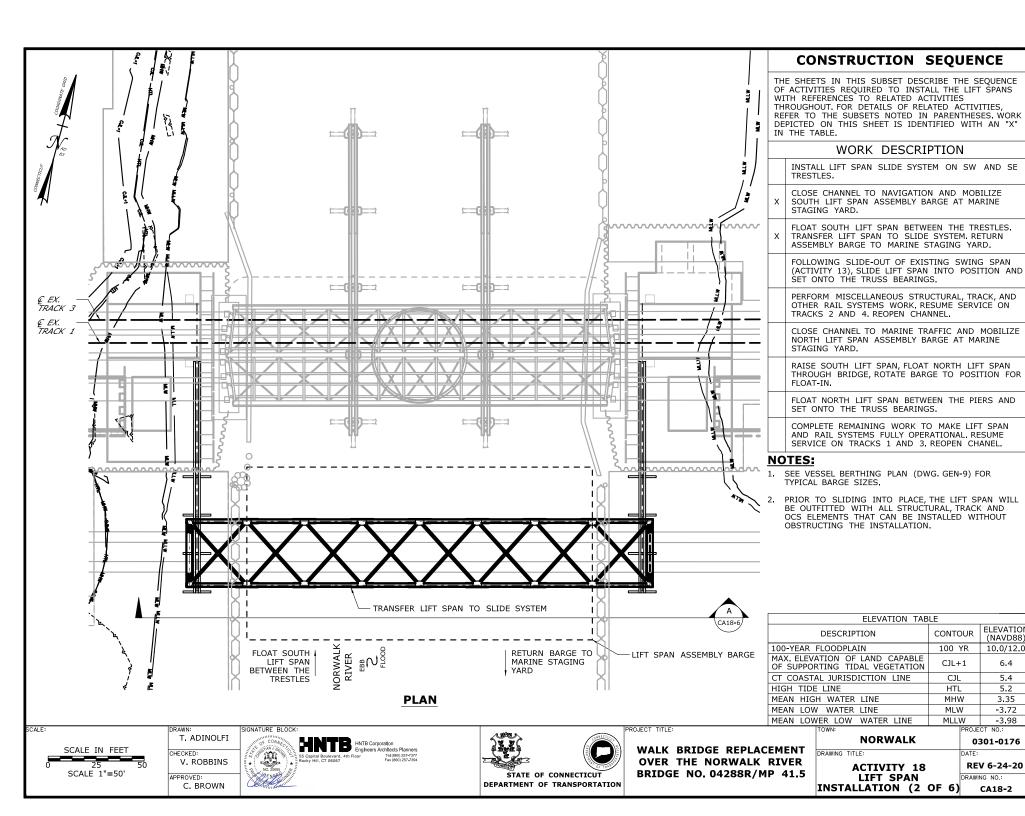
WALK BRIDGE REPLACEMENT **OVER THE NORWALK RIVER** BRIDGE NO. 04288R/MP 41.5

PROJECT NO.: NORWALK 0301-0176 DRAWING TITLE: REV 02-17-21

ACTIVITY 17 DREDGING OPERATIONS DRAWING NO.: (SHEET 7 OF 7)

CA17-7





ELEVATION (NAVD88)

10.0/12.0

6.4

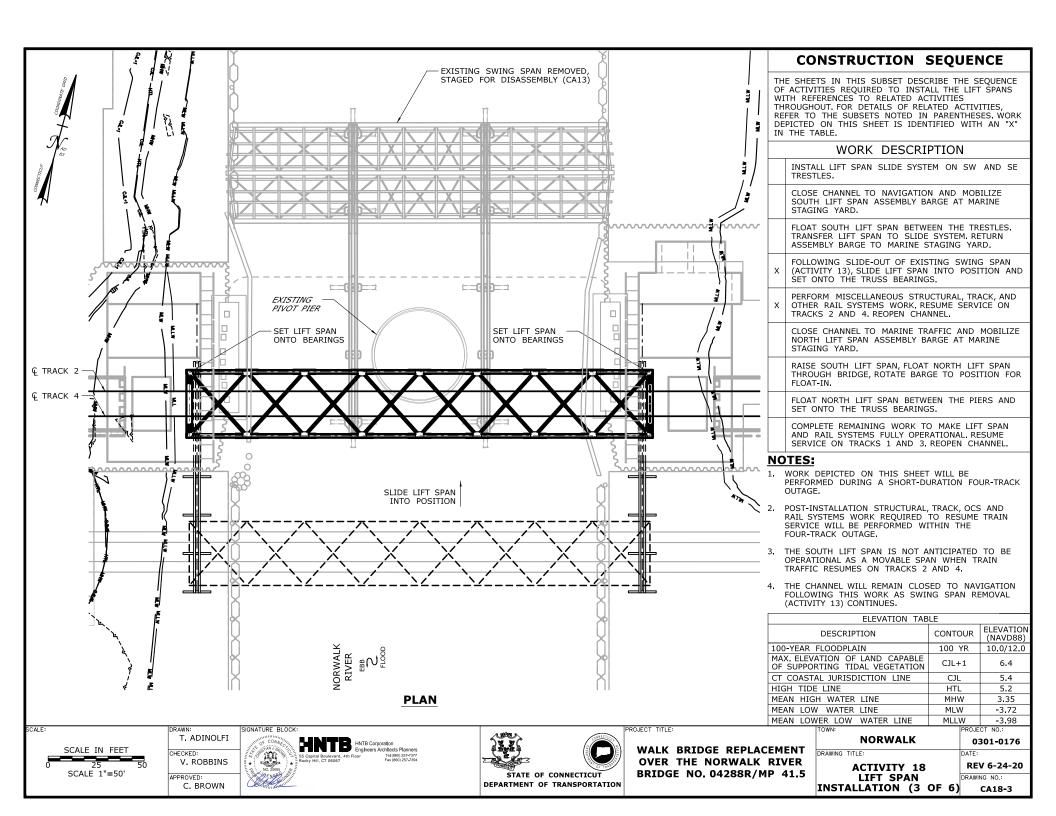
5.4

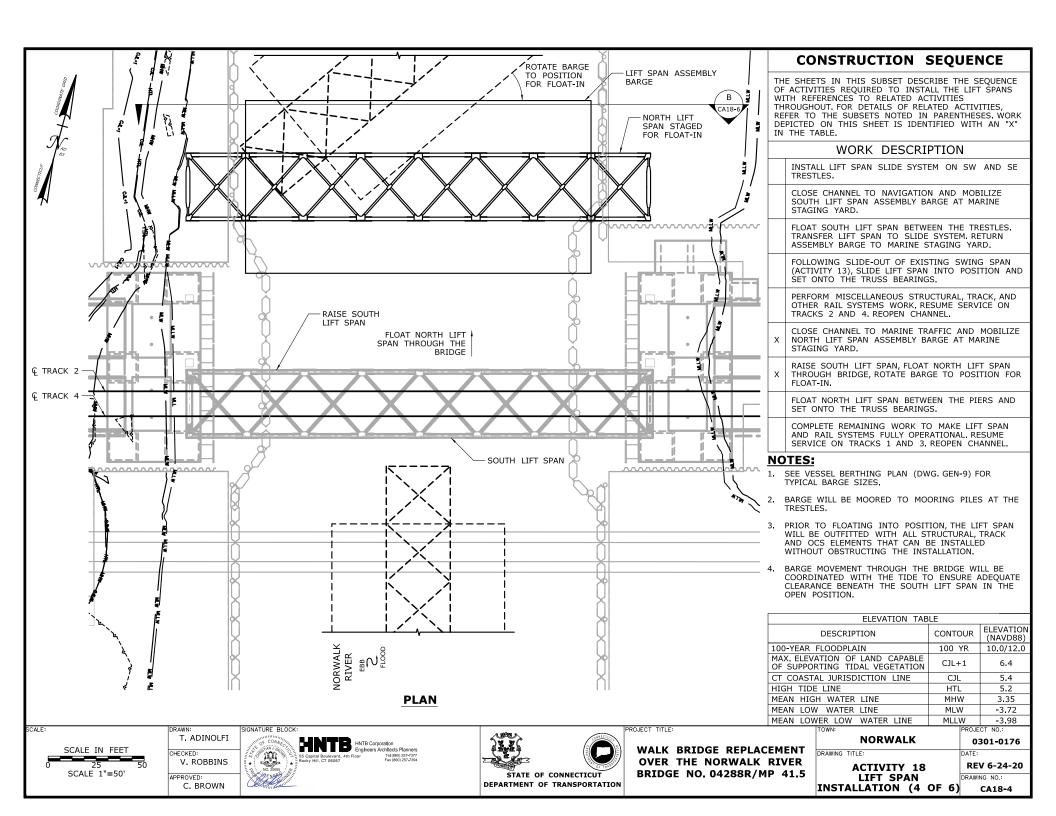
5.2

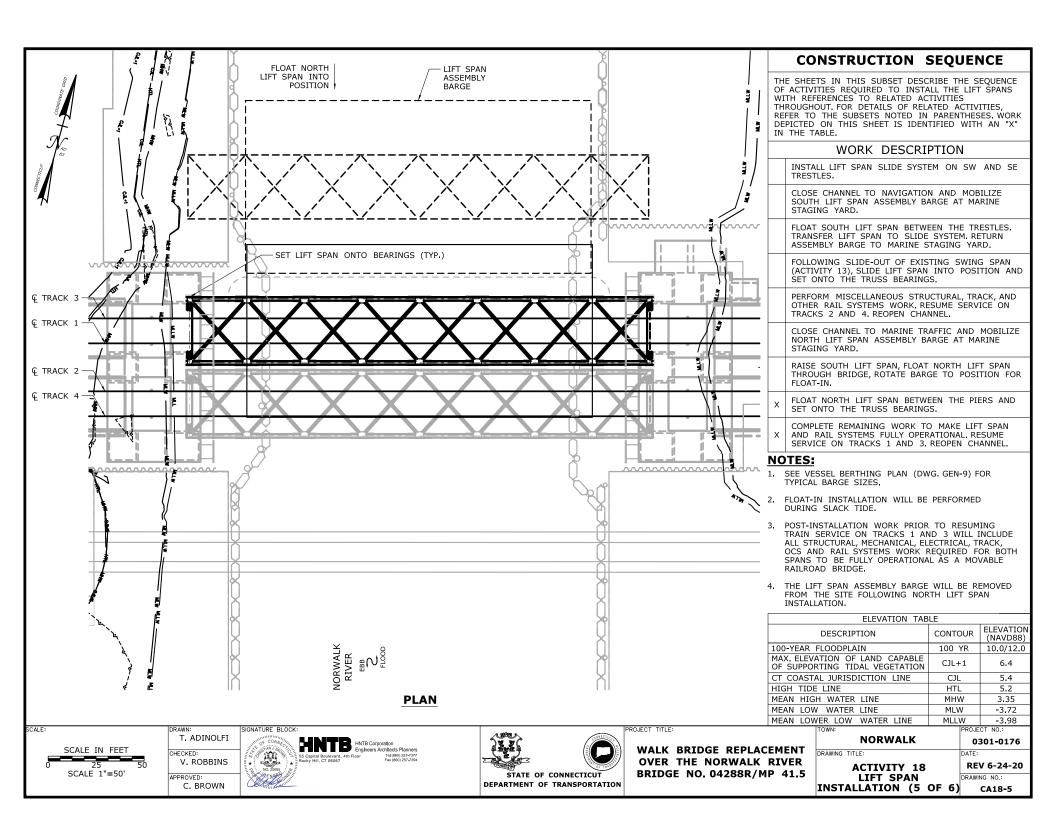
3.35

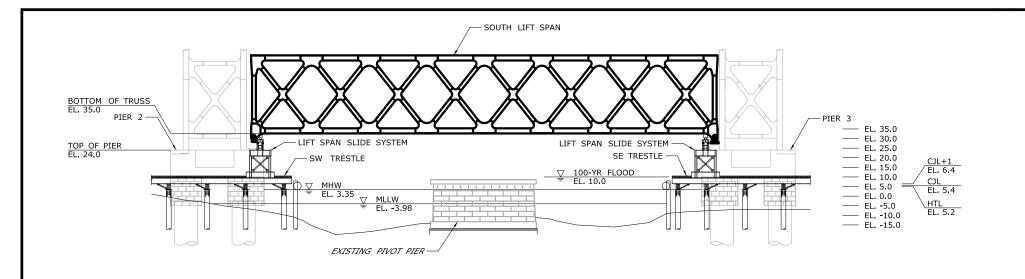
-3.72

-3.98





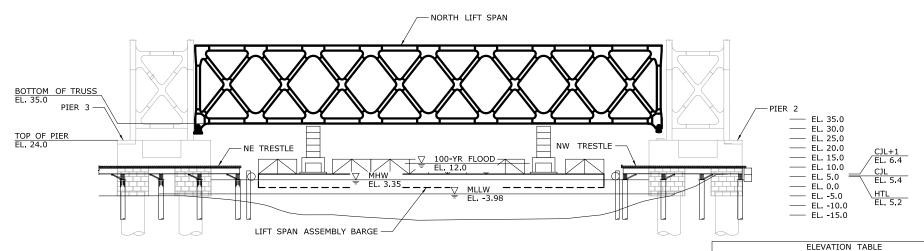




(EXISTING SWING SPAN AND SLIDE RAILS NOT SHOWN FOR CLARITY)

VIEW

VIEW



NOTES:

SCALE:

1. VERTICAL DATUM IS NAVD 88.

2. THE 100-YEAR FLOOD ELEVATION VARIES THROUGHOUT THE SITE WITHIN THE RIVER, IT IS DEFINED AS EL. 12 AND EL. 10 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.

		,,
		DRAWN:
		T. ADINOLFI
SCALE IN FEET		
SCALL IN TELT	_	CHECKED:
25	50	V. ROBBINS
SCALE 1"=50'		
30,122 1 -30		APPROVED:

C. BROWN

HNTB Corporation Engineers Architects Planners



DEPARTMENT OF TRANSPORTATION

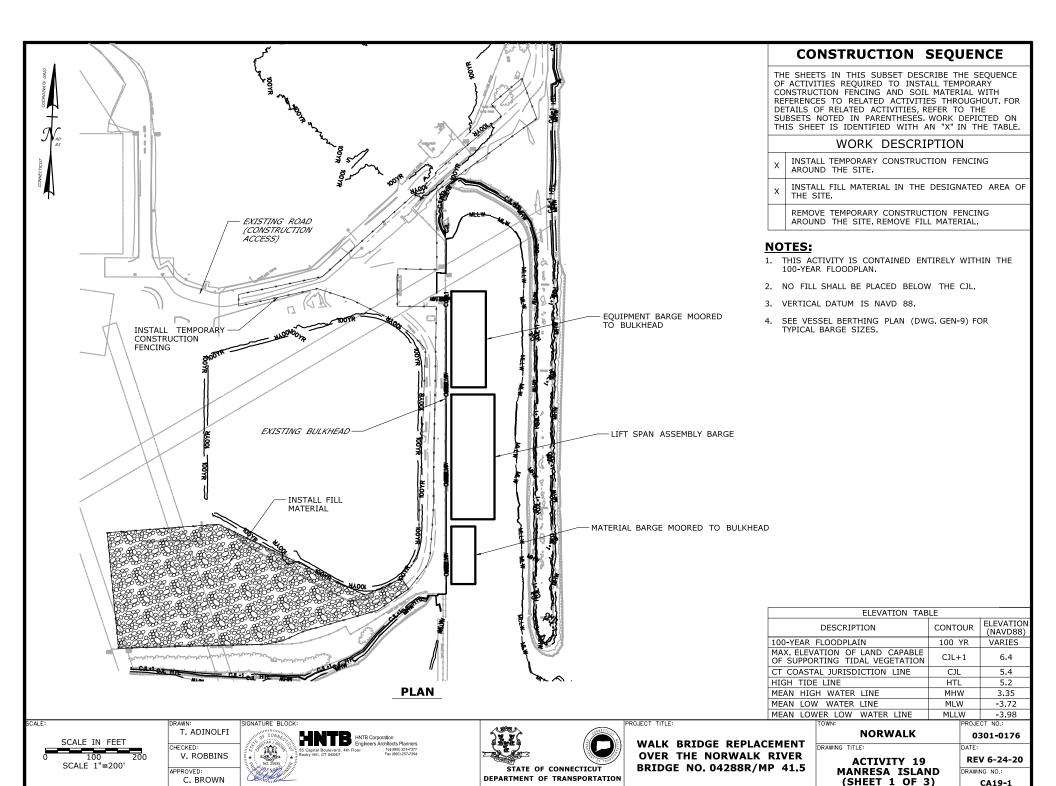
WALK BRIDGE REPLACEMENT **OVER THE NORWALK RIVER** BRIDGE NO. 04288R/MP 41.5

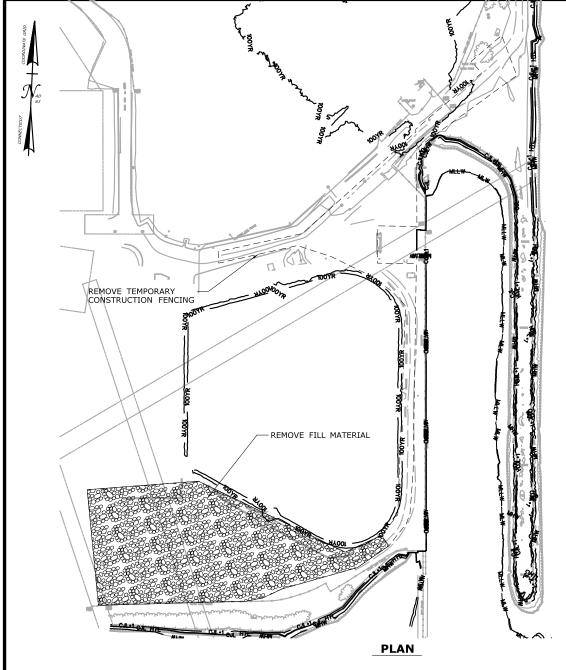
DESCRIPTION	CONTOUR	ELEVATION (NAVD88)
100-YEAR FLOODPLAIN	100 YR	10.0/12.0
MAX. ELEVATION OF LAND CAPABLE OF SUPPORTING TIDAL VEGETATION	CJL+1	6.4
CT COASTAL JURISDICTION LINE	CJL	5.4
HIGH TIDE LINE	HTL	5.2
MEAN HIGH WATER LINE	MHW	3.35
MEAN LOW WATER LINE	MLW	-3.72
MEAN LOWER LOW WATER LINE	MLLW	-3.98
TOWN	DDO IT	. 5

INSTALLATION (6 OF 6)

TOWN: PROJECT NO.: NORWALK 0301-0176 DRAWING TITLE: **REV 6-24-20 ACTIVITY 18** LIFT SPAN DRAWING NO.:

CA18-6





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.

ELEVATION TABLE		
DESCRIPTION	CONTOUR	ELEVATION (NAVD88)
100-YEAR FLOODPLAIN	100 YR	VARIES
MAX. ELEVATION OF LAND CAPABLE OF SUPPORTING TIDAL VEGETATION	CJL+1	6.4
CT COASTAL JURISDICTION LINE	CJL	5.4
HIGH TIDE LINE	HTL	5.2
MEAN HIGH WATER LINE	MHW	3.35
MEAN LOW WATER LINE	MLW	-3.72
MEAN LOWER LOW WATER LINE	MLLW	-3.98
TOWN: PROJECT NO.:		

SCALE IN FEET
0 100 200
SCALE 1"=200'

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

C. BROWN

SIGNATURE BLOCK:

HNTB Corporation

COUNTY FOR COUNTY F



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

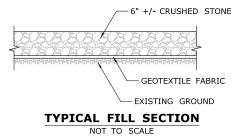
DRAWING TITLE:

K 0301-0176

ACTIVITY 19 MANRESA ISLAND (SHEET 2 OF 3) REV 6-24-20
DRAWING NO.:
CA19-2

NOTES:

- 1. VERTICAL DATUM IS NAVD 88.
- 2. THE 100-YEAR FLOODPLAIN ELEVATION VARIES THROUGHOUT THE SITE. SEE FLOOD ZONE MAP (DWG. GEN-6A FOR ELEVATION VALUES AND LIMITS OF APPLICABILITY.



ELEVATION TABLE		
DESCRIPTION	CONTOUR	ELEVATION (NAVD88)
100-YEAR FLOODPLAIN	100 YR	VARIES
MAX. ELEVATION OF LAND CA OF SUPPORTING TIDAL VEGET		6.4
CT COASTAL JURISDICTION LI	INE CJL	5.4
HIGH TIDE LINE	HTL	5.2
MEAN HIGH WATER LINE	MHW	3.35
MEAN LOW WATER LINE	MLW	-3.72
MEAN LOWER LOW WATER L	INE MLLW	-3.98

SCALE:

T. ADINOLFI CHECKED: V. ROBBINS APPROVED:

C. BROWN

HNTB Corporation Engineers Architects Planners
55 Capital Boulevard, 4th Floor Tell(80) 257-7377 Rocky Hill, CT 06067 Fax (600) 257-7384



WALK BRIDGE REPLACEMENT

NORWALK

PROJECT NO.: 0301-0176

DRAWING TITLE: **ACTIVITY 19** MANRESA ISLAND

(SHEET 3 OF 3)

REV 6-24-20 DRAWING NO.: CA19-3