



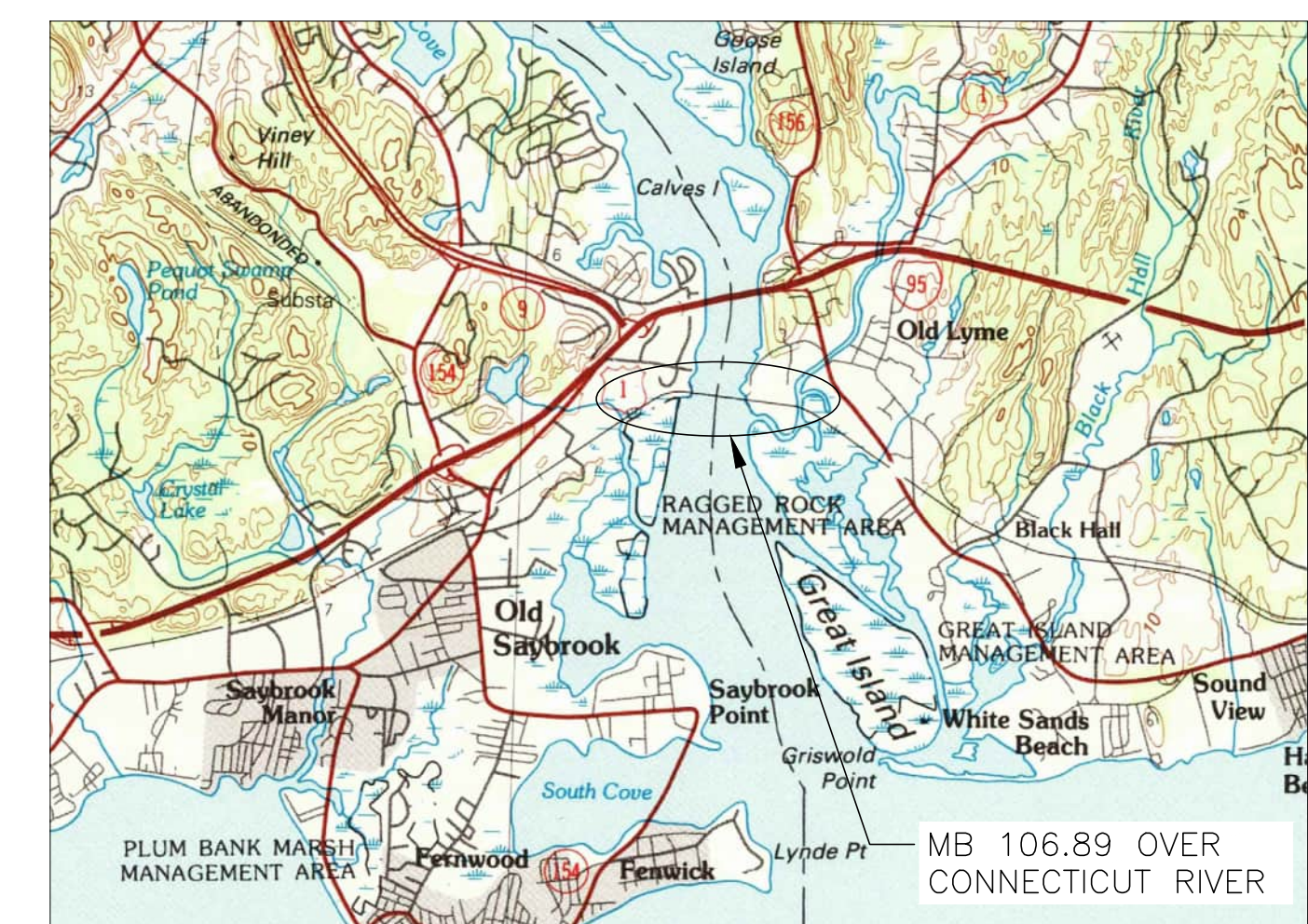
REPLACEMENT OF MB 106.89
OVER CONNECTICUT RIVER
OLD SAYBROOK, CONNECTICUT

- GENERAL NOTES**
1. THESE PLANS ARE NOT FOR CONSTRUCTION AND ARE INTENDED ONLY FOR ENVIRONMENTAL PERMITTING PURPOSES. THESE PLANS HOLD AUTHORITY FOR ALL ACTIVITIES CONCERNING THE REGULATED AREA. FOR DETAILED PLANIMETRIC INFORMATION AND PAYMENT, REFER TO THE APPLICABLE CONTRACT DOCUMENTS.
 2. AMTRAK WILL ONLY SUBMIT REVISIONS TO CTDEEP AND USACE FOR CHANGES TO THE DESIGN THAT WILL AFFECT REGULATED AREAS.
 3. FOR A DESCRIPTION OF THE WATERCOURSES, WETLANDS, AND WETLAND SOILS SEE RELEVANT SECTIONS OF THE PERMIT APPLICATION.
 4. THE HORIZONTAL CONTROLS REFERENCE THE NORTH AMERICAN DATUM OF 1983 (NAD83) AND THE CONNECTICUT STATE PLANE COORDINATE SYSTEM. THE VERTICAL DATUM REFERENCE THE NORTH AMERICAN VERTICAL DATUM OF 1988 (NAVD88).
 5. ALL CONSTRUCTION ACTIVITIES WILL BE CONDUCTED IN ACCORDANCE WITH THE CTDOT STANDARD SPECIFICATIONS FOR ROADS, BRIDGES, FACILITIES AND INCIDENTAL CONSTRUCTION, FORM 818, SECTION 1.10 AND WILL ALSO FOLLOW REQUIRED BEST MANAGEMENT PRACTICES (BMPs) AND SEDIMENT AND EROSION CONTROL MEASURES IN ACCORDANCE WITH THE 2002 EROSION & SEDIMENTATION CONTROL GUIDELINES AND THE 2004 STORMWATER QUALITY MANUAL.

ENVIRONMENTAL AND PERMIT PLANS



LOCATION PLAN



VICINITY MAP
SCALE: 1"=24000'

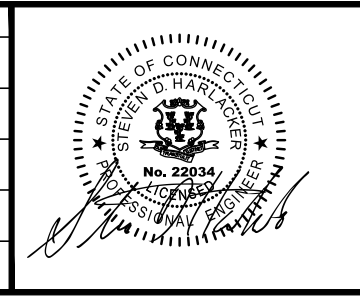
ENVIRONMENTAL PERMIT PLANS
PLAN DATE: MAY 2, 2023

No.	Revisions	Date	By



Office of Chief Engineer
STRUCTURES
National Railroad Passenger Corporation
30th Street Station, Philadelphia, Pennsylvania 19104

Approved	Date



HARDESTY & HANOVER, LLC
ENGINEERING
1501 Broadway New York, NY 10036

OLD SAYBROOK CONNECTICUT
**REPLACEMENT OF MB 106.89
OVER CONNECTICUT RIVER**
TITLE SHEET
Designed - Drawn - Checked - Date 5/2/2023

Project Code:	XXX XXX
WBS:	000000
Sheet No.:	1 OF 140
Dwg. No.:	TTL-01

SEE IDX-01 FOR LIST OF DRAWINGS

FILE NAME: 2406_TTL-01_TITLE_SHEET.DWG
PLOT SCALE: AS NOTED
STANDARD PEN TABLE: YES

INDEX OF DRAWINGS		
SHEET NO.	DESCRIPTION	DRAWING NO.
1	TITLE SHEET	TTL-01
2	INDEX OF DRAWINGS	IDX-01
3	GENERAL CIVIL NOTES AND LEGEND	GEN-01
4	EXISTING SITE PLAN	EX-1
5	EXISTING SITE PLAN	EX-2
6	EXISTING SITE PLAN	EX-3
7	EXISTING SITE PLAN	EX-4
8	EXISTING SITE PLAN	EX-5
9	EXISTING SITE PLAN	EX-6
10	EXISTING SITE PLAN	EX-7
11	EXISTING SITE PLAN	EX-8
12	EXISTING SITE PLAN	EX-9
13	EXISTING SITE PLAN	EX-10
14	EXISTING SITE PLAN	EX-11
15	EXISTING SITE PLAN	EX-12
16	EXISTING SITE PLAN	EX-13
17	KEY PLAN	KEY-01
18	SITE PLAN	SITE-01
19	SITE PLAN	SITE-02
20	SITE PLAN	SITE-03
21	SITE PLAN	SITE-04
22	SITE PLAN	SITE-05
23	SITE PLAN	SITE-06
24	SITE PLAN	SITE-07
25	SITE PLAN	SITE-08
26	SITE PLAN	SITE-09
27	SITE PLAN	SITE-10
28	SITE PLAN	SITE-11
29	SITE PLAN	SITE-12
30	PROPOSED CROSS SECTIONS	XCS-01
31	PROPOSED CROSS SECTIONS	XCS-02
32	PROPOSED CROSS SECTIONS	XCS-03
33	PROPOSED CROSS SECTIONS	XCS-04
34	PROPOSED CROSS SECTIONS	XCS-05
35	PROPOSED CROSS SECTIONS	XCS-06
36	PROPOSED CROSS SECTIONS	XCS-07
37	PROPOSED CROSS SECTIONS	XCS-08
38	PROPOSED CROSS SECTIONS	XCS-09
39	PROPOSED CROSS SECTIONS	XCS-10
40	BRIDGE ELEVATION PROPOSED CONDITIONS	EL-01
41	IMPACT SUMMARY SHEET	SUM-01
42	CJL STATE IMPACT PLAN	CJL-01
43	CJL STATE IMPACT PLAN	CJL-02
44	CJL STATE IMPACT PLAN	CJL-03
45	CJL STATE IMPACT PLAN	CJL-04
46	CJL STATE IMPACT PLAN	CJL-05
47	CJL STATE IMPACT PLAN	CJL-06
48	CJL STATE IMPACT PLAN	CJL-07
49	CJL STATE IMPACT PLAN	CJL-08
50	CJL STATE IMPACT PLAN	CJL-09
51	CJL STATE IMPACT PLAN	CJL-10

INDEX OF DRAWINGS		
SHEET NO.	DESCRIPTION	DRAWING NO.
52	CJL STATE IMPACT PLAN	CJL-11
53	CJL STATE IMPACT PLAN	CJL-12
54	HIGH TIDE LINE IMPACT PLAN	HTL-01
55	HIGH TIDE LINE IMPACT PLAN	HTL-02
56	HIGH TIDE LINE IMPACT PLAN	HTL-03
57	HIGH TIDE LINE IMPACT PLAN	HTL-04
58	HIGH TIDE LINE IMPACT PLAN	HTL-05
59	HIGH TIDE LINE IMPACT PLAN	HTL-06
60	HIGH TIDE LINE IMPACT PLAN	HTL-07
61	HIGH TIDE LINE IMPACT PLAN	HTL-08
62	HIGH TIDE LINE IMPACT PLAN	HTL-09
63	HIGH TIDE LINE IMPACT PLAN	HTL-10
64	HIGH TIDE LINE IMPACT PLAN	HTL-11
65	HIGH TIDE LINE IMPACT PLAN	HTL-12
66	FEMA FLOODPLAIN IMPACT PLAN	FEMA-01
67	FEMA FLOODPLAIN IMPACT PLAN	FEMA-02
68	FEMA FLOODPLAIN IMPACT PLAN	FEMA-03
69	FEMA FLOODPLAIN IMPACT PLAN	FEMA-04
70	FEMA FLOODPLAIN IMPACT PLAN	FEMA-05
71	FEMA FLOODPLAIN IMPACT PLAN	FEMA-06
72	FEMA FLOODPLAIN IMPACT PLAN	FEMA-07
73	FEMA FLOODPLAIN IMPACT PLAN	FEMA-08
74	FEMA FLOODPLAIN IMPACT PLAN	FEMA-09
75	FEMA FLOODPLAIN IMPACT PLAN	FEMA-10
76	FEMA FLOODPLAIN IMPACT PLAN	FEMA-11
77	FEMA FLOODPLAIN IMPACT PLAN	FEMA-12
78	SUGGESTED CONSTRUCTION SEQUENCE	PH-01
79	STAGING PLANS - GENERAL NOTES	PH-02
80	ENVIRONMENTAL COMPLIANCE NOTES	PH-03
81	STAGING PLAN - PHASE IAB	PH-IAB-01
82	STAGING PLAN - PHASE IAB	PH-IAB-02
83	STAGING PLAN - PHASE IAB	PH-IAB-03
84	STAGING PLAN - PHASE IAB	PH-IAB-04
85	STAGING PLAN - PHASE IAB	PH-IAB-05
86	STAGING PLAN - PHASE IAB	PH-IAB-06
87	STAGING PLAN - PHASE IAB	PH-IAB-07
88	STAGING PLAN - PHASE IAB	PH-IAB-08
89	STAGING PLAN - PHASE IAB	PH-IAB-09
90	STAGING PLAN - PHASE IAB	PH-IAB-10
91	STAGING PLAN - PHASE IAB	PH-IAB-11
92	STAGING PLAN - PHASE IAB	PH-IAB-12
93	STAGING PLAN - PHASE ICDE	PH-ICDE-01
94	STAGING PLAN - PHASE ICDE	PH-ICDE-02
95	STAGING PLAN - PHASE ICDE	PH-ICDE-03
96	STAGING PLAN - PHASE ICDE	PH-ICDE-04
97	STAGING PLAN - PHASE ICDE	PH-ICDE-05
98	STAGING PLAN - PHASE ICDE	PH-ICDE-06
99	STAGING PLAN - PHASE ICDE	PH-ICDE-07
100	STAGING PLAN - PHASE ICDE	PH-ICDE-08
101	STAGING PLAN - PHASE ICDE	PH-ICDE-09
102	STAGING PLAN - PHASE ICDE	PH-ICDE-10

INDEX OF DRAWINGS		
SHEET NO.	DESCRIPTION	DRAWING NO.
103	STAGING PLAN - PHASE ICDE	PH-ICDE-11
104	STAGING PLAN - PHASE ICDE	PH-ICDE-12
105	STAGING PLAN - PHASE IV	PH-IV-01
106	STAGING PLAN - PHASE IV	PH-IV-02
107	STAGING PLAN - PHASE IV	PH-IV-03
108	STAGING PLAN - PHASE IV	PH-IV-04
109	STAGING PLAN - PHASE IV	PH-IV-05
110	STAGING PLAN - PHASE IV	PH-IV-06
111	STAGING PLAN - PHASE IV	PH-IV-07
112	STAGING PLAN - PHASE IV	PH-IV-08
113	STAGING PLAN - PHASE IV	PH-IV-09
114	STAGING PLAN - PHASE IV	PH-IV-10
115	STAGING PLAN - PHASE IV	PH-IV-11
116	STAGING PLAN - PHASE IV	PH-IV-12
117	CIVIL DETAILS	DTL-01
118	CIVIL DETAILS	DTL-02
119	CIVIL DETAILS	DTL-03
120	CIVIL DETAILS	DTL-04
121	CIVIL DETAILS	DTL-05
122	CIVIL DETAILS	DTL-06
123	SUBSURFACE PROFILE 1	GEO-01
124	SUBSURFACE PROFILE 2	GEO-02
125	SUBSURFACE PROFILE 3	GEO-03
126	EMBANKMENT CONSTRUCTION SCHEME	GEO-04
127	FOUNDATION PLAN	GEO-05
128	PIER 9 AND EAST ABUTMENT	GEO-06
129	DRILLED SHAFT TYPICAL DETAILS	GEO-07
130	DEMOLITION PLAN	DEM-01
131	BARGE OCCUPANCY ZONES	SC-01
132	BARGE BERTHING 1 - PIER CONSTRUCTION	SC-02
133	BARGE BERTHING 2 - FENDER CONSTRUCTION	SC-03
134	BARGE BERTHING 3 - SUPERSTRUCTURE CONSTRUCTION	SC-04
135	BARGE BERTHING 4 - SUB CABLE CONSTRUCTION	SC-05
136	FERRY LANDING FISHING PIER	FM-01
137	EAGLE LANDING FISHING PIER	FM-02
138	TEMPORARY AERIAL CABLES	AC-01
139	FENDER SYSTEM DETAILS	FEN-01
140	LIEUTENANT RIVER TEMPORARY CROSSING	TB-01

NOTE: SEE ATTACHMENT 14A FOR "3.25 AC MITIGATION SITE" AND "17 SHORE ROAD MITIGATION SITE" PLANS.

FILE NAME: 1406-101-01-INDEX_OF_DRAWINGS.DWG
 PLOT SCALE: AS NOTED
 STANDARD PEN TABLE: YES

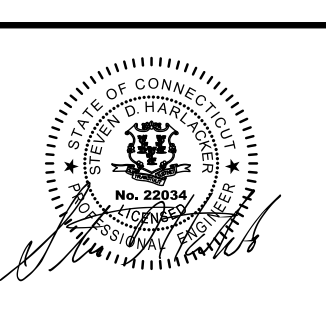
No.	Revisions	Date	By



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**Office of Chief Engineer
STRUCTURES**
 National Railroad Passenger Corporation
 30th Street Station, Philadelphia, Pennsylvania 19104

Approved	Date



HARDESTY & HANOVER, LLC
 ENGINEERING
 1501 Broadway New York, NY 10036

OLD SAYBROOK CONNECTICUT
**REPLACEMENT OF MB 106.89
OVER CONNECTICUT RIVER**
 INDEX OF DRAWINGS
 Designed CBS Drawn CBS Checked BSH Date 5/2/2023

ENVIRONMENTAL PERMIT PLANS
 PLAN DATE: MAY 2, 2023
 Project Code: XXX XXX
 WBS: 000000
 Sheet No. 2 OF 140
 Dwg. No. **IDX-01**

DEFINITIONS

EOR = ENGINEER OF RECORD
 REO = RESIDENT ENGINEER'S OFFICE

HORIZONTAL AND VERTICAL CONTROL DATUM

1. THE HORIZONTAL CONTROLS REFERENCE THE NORTH AMERICAN DATUM OF 1983, (NAD83) AND THE CONNECTICUT STATE PLANE COORDINATE SYSTEM.
2. THE VERTICAL DATUM REFERENCE THE NORTH AMERICAN VERTICAL DATUM OF 1988 (NAVD 88).

SAFETY TRAINING

1. ALL CONTRACTOR AND SUBCONTRACTORS ON-SITE PERSONNEL WILL BE REQUIRED TO ATTEND AMTRAK WORKER PROTECTION AND CONTRACTOR SAFETY TRAINING BEFORE ENTERING AMTRAK PROPERTY.
2. THE SAFETY TRAINING CONSISTS OF AN ONLINE COURSE HOSTED ON AMTRAK'S WEBSITE AND MUST BE RENEWED ON A YEARLY BASIS.

TRACK OUTAGES

1. CONSTRUCTION ON THIS CONTRACT SHALL MINIMIZE IMPACTS TO RAILROAD OPERATIONS. THE CONTRACTOR SHALL COORDINATE TRACK OUTAGES WITH THE CONSTRUCTION MANAGER.

KEY WATER ELEVATIONS AT PROJECT SITE (NAVD 88)

FEMA 100-YEAR FLOOD PLAIN BASE FLOOD ELEVATIONS (BFE):	
WEST ABUTMENT, NORTH BANK (ZONE AE) =	11
WEST ABUTMENT, SOUTH BANK (ZONE VE) =	15
EAST ABUTMENT, NORTH BANK STA T2 106+3950± TO 106+4475± (ZONE VE) =	14
EAST ABUTMENT, NORTH BANK STA T2 106+4475± TO 107+0900± (ZONE AE) =	10
EAST ABUTMENT, NORTH BANK STA T2 107+0900± TO 107+1850± (ZONE AE) =	12
EAST ABUTMENT, NORTH BANK STA T2 107+1850± TO EAST (ZONE AE) =	11
EAST ABUTMENT, SOUTH BANK STA T2 106+3950± TO 106+4650± (ZONE VE) =	14
EAST ABUTMENT, SOUTH BANK STA T2 106+4650± TO 107+0390± (ZONE AE) =	10
EAST ABUTMENT, SOUTH BANK STA T2 107+0390± TO 107+1850± (ZONE VE) =	14
EAST ABUTMENT, SOUTH BANK STA T2 107+1850± TO EAST (ZONE VE) =	10

HYDRAULIC DATA	NAVD88	USACE
MINIMUM CABLE DEPTH	-29.89 FT	-28.0 FT
AUTHORIZED DREDGE DEPTH	-16.89 FT	-15.0 FT
MEAN LOWER LOW WATER (M.L.L.W.)	-1.89 FT (1)	0.0 FT
MEAN LOW WATER (M.L.W.)	-1.71 FT (1)	0.18 FT
MEAN HIGH WATER (M.H.W.)	1.60 FT (1)	3.49 FT
COASTAL JURISDICTION LINE (C.J.L.)	2.9 FT	4.8 FT
HIGH TIDE LINE (H.T.L.)	3.04 FT (2)	4.93 FT
10-YEAR TIDE	5.4 FT (3)	7.3 FT
100-YEAR TIDE	9.3 FT (3)	11.2 FT
DRAINAGE AREA	11,300 SQ MI	11,300 SQ MI
DESIGN FREQUENCY	100-YEAR	100-YEAR
DESIGN DISCHARGE	136,495 CFS (4)	136,495 CFS
DESIGN WATER SURFACE ELEVATION-UPSTREAM	8.41 FT (4)	10.30 FT
DESIGN WATER SURFACE ELEVATION-DOWNSTREAM	8.53 FT (4)	10.42 FT
MAXIMUM SCOUR ELEVATION		
FREQUENCY	500 YR W/ SPRING TIDE	500 YR W/ SPRING TIDE
DISCHARGE	195,553 CFS	195,553 CFS
WORST CASE SCOUR, SUBSTRUCTURE UNIT: DEPTH	WEST ABUTMENT: 24.9 PIER 7: 25.1	WEST ABUTMENT: 24.9 PIER 7: 25.1

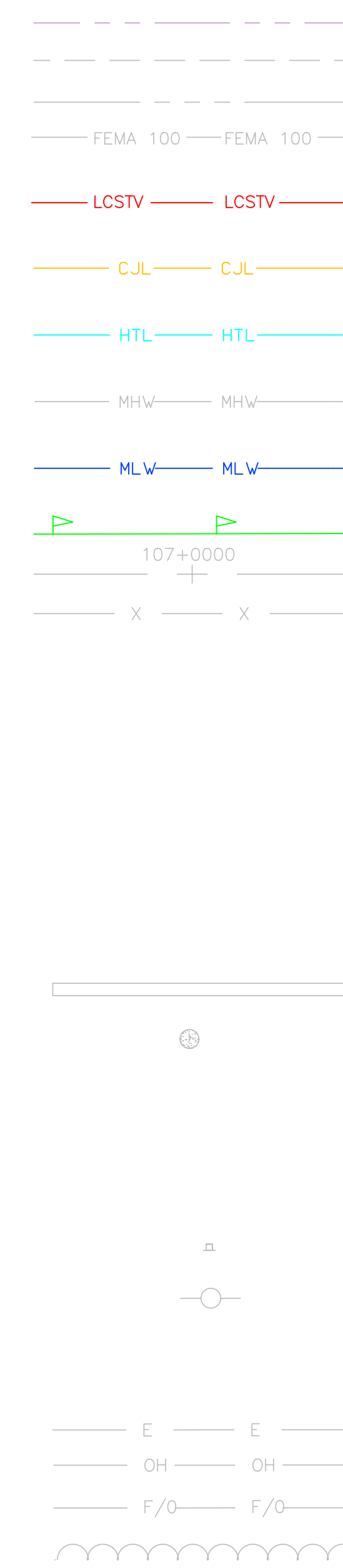
- (1) NOAA PUBLISHED DATA FOR TIDAL GAUGE STATION NO. 8462764, LYME HWY. BR. CT. RIVER CT
- (2) UPDATED TIDAL PROFILES FOR THE NEW ENGLAND COASTLINE
- (3) USACE NORTH ATLANTIC COAST COMPREHENSIVE STUDY (NACCS)
- (4) CONNECTICUT RIVER BRIDGE REPLACEMENT, HYDROLOGIC, HYDRAULIC, AND SCOUR ANALYSIS REPORT, MARCH 2023

*ALL ELEVATIONS SHOWN ARE APPROXIMATE AND CONTAINS AN ACCURACY OF 0.10' ± BASED ON RELATION WITH THE USGS AND NOAA GAUGE BENCHMARKS INTERPOLATION AND FIELD VERIFICATION.

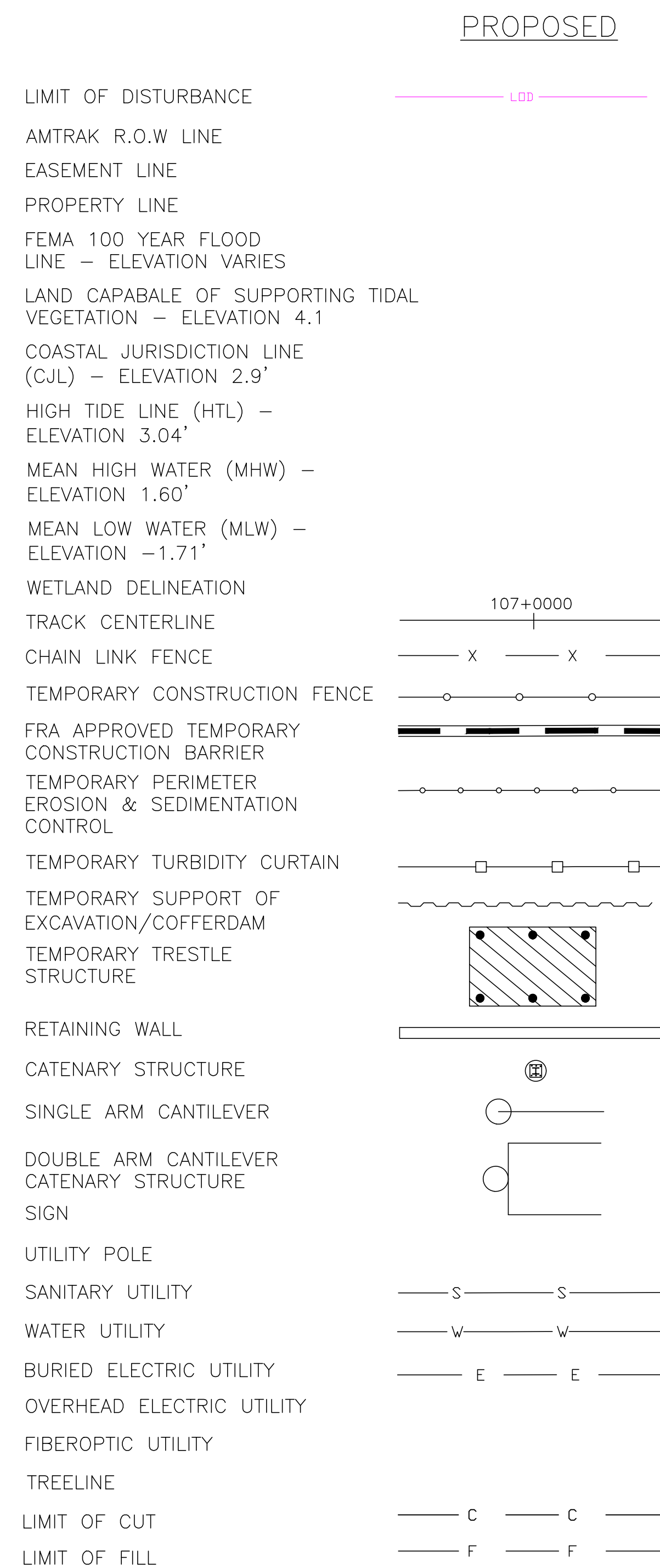
GENERAL NOTES

1. HAUL ROUTES MUST BE KEPT CLEAN AT ALL TIMES.
2. ALL WORK SHALL COMPLY WITH OSHA STANDARDS.
3. THE LOCATION, ELEVATION AND SIZE OF EXISTING UTILITIES SHOWN ON THE CONTRACT DRAWINGS ARE APPROXIMATE. THE FOLLOWING SHALL BE PERFORMED:
 - a. VERIFY THE LOCATION OF EXISTING UNDERGROUND UTILITIES WITHIN THE WORK AREA PRIOR TO CONSTRUCTION.
 - b. EXERCISE EXTREME CAUTION WHEN WORKING ADJACENT TO EXISTING POWER, COMMUNICATIONS, WATER OR GAS LINES TO PREVENT DAMAGE TO THESE LINES.
 - c. IMMEDIATELY REPAIR ANY DAMAGE TO EXISTING UTILITIES CAUSED BY CONTRACTOR'S OPERATIONS IN A MANNER APPROVED BY THE UTILITY OWNER, AT NO COST TO AMTRAK.
3. ALL AREAS OUTSIDE THE LIMITS OF CONSTRUCTION THAT ARE DAMAGED BY THE CONTRACTOR'S OPERATIONS, SHALL BE IMMEDIATELY RESTORED TO THEIR ORIGINAL CONDITION TO THE SATISFACTION OF THE RESIDENT ENGINEER'S OFFICE (REO) AT NO ADDITIONAL COST TO AMTRAK.
4. VERIFY ALL INDICATED CONDITIONS AND DIMENSIONS IN THE FIELD BEFORE COMMENCING ANY FABRICATION, ORDERING OF MATERIAL, OR PERFORMING ANY WORK. NOTIFY THE REO OF ANY CONDITIONS OR DIMENSIONS THAT WOULD PREVENT OR HAMPER THE PERFORMANCE OF THE WORK IN ACCORDANCE WITH THE CONTRACT DRAWINGS AND SPECIFICATIONS.
5. UPON COMPLETION OF THE WORK, REMOVE ALL DEBRIS, EQUIPMENT AND UNUSED MATERIALS FROM AMTRAK'S PROPERTY AND RESTORE THE "AREA AVAILABLE FOR CONTRACTOR'S USE" TO ITS ORIGINAL CONDITION.
6. THE CONTRACTOR SHALL, THROUGH THE REO, COORDINATE WITH THE RAILROAD FORCE ACCOUNT CONSTRUCTION ACTIVITIES WITHIN THE RAILROAD PROPERTY.
7. AREAS THAT WILL REMAIN DISTURBED BUT INACTIVE FOR AT LEAST THIRTY DAYS SHALL RECEIVE TEMPORARY SEEDING OR SOIL PROTECTION WITHIN SEVEN DAYS. AREAS THAT WILL REMAIN DISTURBED BEYOND THE SEEDING SEASON, SHALL RECEIVE LONG-TERM, NON-VEGETATIVE STABILIZATION AND PROTECTION SUFFICIENT TO PROTECT THE SITE THROUGH THE WINTER. IN ALL CASES, STABILIZATION AND PROTECTION MEASURES SHALL BE IMPLEMENTED AS SOON AS POSSIBLE. PERMANENT SEEDING IS RECOMMENDED FROM APRIL 1 THROUGH JUNE 15 AND AUGUST 15 THROUGH OCTOBER 15.
8. EROSION CONTROL MATTING SHALL BE USED ON ALL SEEDED SLOPES OF 2:1 OR STEEPER AND ON ALL SEEDED SLOPES OF 3:1 OR STEEPER THAT EXCEED 15 FEET VERTICALLY.
9. FOR CONSTRUCTION AND TRACK MONITORING REQUIREMENTS SEE AMTRAK STANDARD SPECIFICATIONS EP 2031 AND EP 3014, LATEST EDITIONS.
10. THE CONTRACTOR SHALL NOT STORE BELOW THE 500-YEAR FLOOD LEVEL ANY MATERIALS THAT ARE BUOYANT, HAZARDOUS, FLAMMABLE, EXPLOSIVE, SOLUBLE, EXPANSIVE, RADIOACTIVE, OR ANY OTHER MATERIALS THAT COULD BE INJURIOUS TO HUMAN, ANIMAL OR PLANT LIFE IN THE EVENT OF A FLOOD. OTHER MATERIAL OR EQUIPMENT MAY BE STORED BELOW THE ELEVATION OF THE 500-YEAR FLOOD ELEVATION PROVIDED THAT SUCH MATERIAL OR EQUIPMENT IS NOT SUBJECT TO MAJOR DAMAGE BY FLOODS, AND PROVIDED THAT SUCH MATERIAL OR EQUIPMENT IS FIRMLY ANCHORED, RESTRAINED, OR ENCLOSED TO PREVENT IT FROM FLOATING AWAY OR IS REMOVED PRIOR TO FLOODING.
11. PRIOR TO COMMENCEMENT OF ANY CONSTRUCTION, THE CONTRACTOR SHALL SUBMIT TO THE REO FOR APPROVAL, A WRITTEN FLOOD CONTINGENCY PLAN. THE PLAN SHALL INCLUDE BUT NOT LIMITED TO THE FOLLOWING:
 - a. A DESCRIPTION OF THE MEANS BY WHICH THE CONTRACTOR SHALL REMOVE FROM WITHIN THE FLOODPLAIN, ALL MATERIAL, EQUIPMENT AND PERSONNEL PRIOR TO A PREDICTED MAJOR STORM WITHIN A 24-HOUR PERIOD DURING THE WEEKDAY INCLUDING WEEKENDS AND HOLIDAYS. A SITE MAP SHALL BE PROVIDED TO IDENTIFY THE LOCATION OF WHERE ALL MATERIAL AND EQUIPMENT WILL BE STORED TEMPORARILY OUTSIDE OF THE FLOODPLAIN. THE CONTRACTOR IS RESPONSIBLE FOR MONITORING LOCAL WEATHER CONDITIONS AND WILL SECURE THE WORKSITE BEFORE PREDICTED MAJOR STORMS. A MAJOR STORM SHALL BE DEFINED AS A STORM PREDICTED BY THE NOAA WEATHER SERVICE WITH WARNINGS OF FLOODING, SEVERE THUNDERSTORMS, OR SIMILARLY SEVERE WEATHER CONDITIONS OR EFFECTS.
 - b. PROVISIONS FOR NOTIFYING WORKERS ENGAGED IN WORK ON OR NEAR THE BRIDGE OR WATERCOURSE OF AN IMPENDING STORM.
 - c. PROVISIONS FOR REMOVING BUOYANT, HAZARDOUS OR INJURIOUS MATERIALS PRIOR TO MAJOR STORMS.
 - d. CONTRACTOR'S EMERGENCY CONTACT INFORMATION.

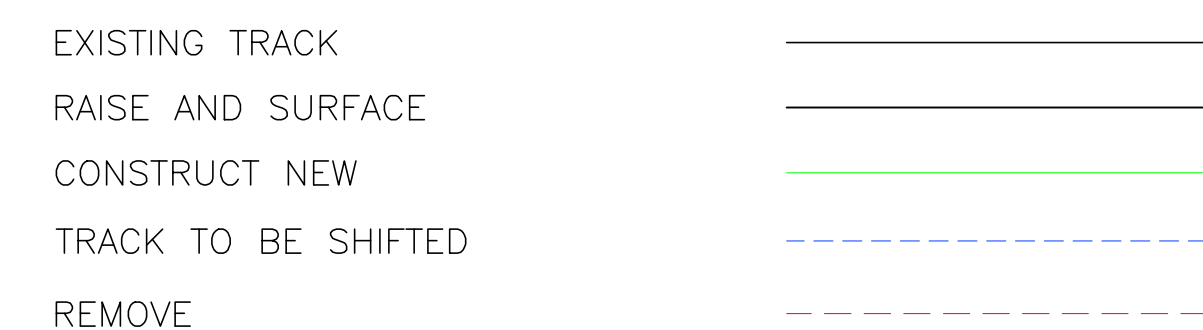
EXISTING



CIVIL LEGEND



TRACK STAGING LEGEND



ENVIRONMENTAL PERMIT PLANS
 PLAN DATE: MAY 2, 2023

No.	Revisions	Date	By



Office of Chief Engineer
STRUCTURES
 National Railroad Passenger Corporation
 30th Street Station, Philadelphia, Pennsylvania 19104

Approved	Date

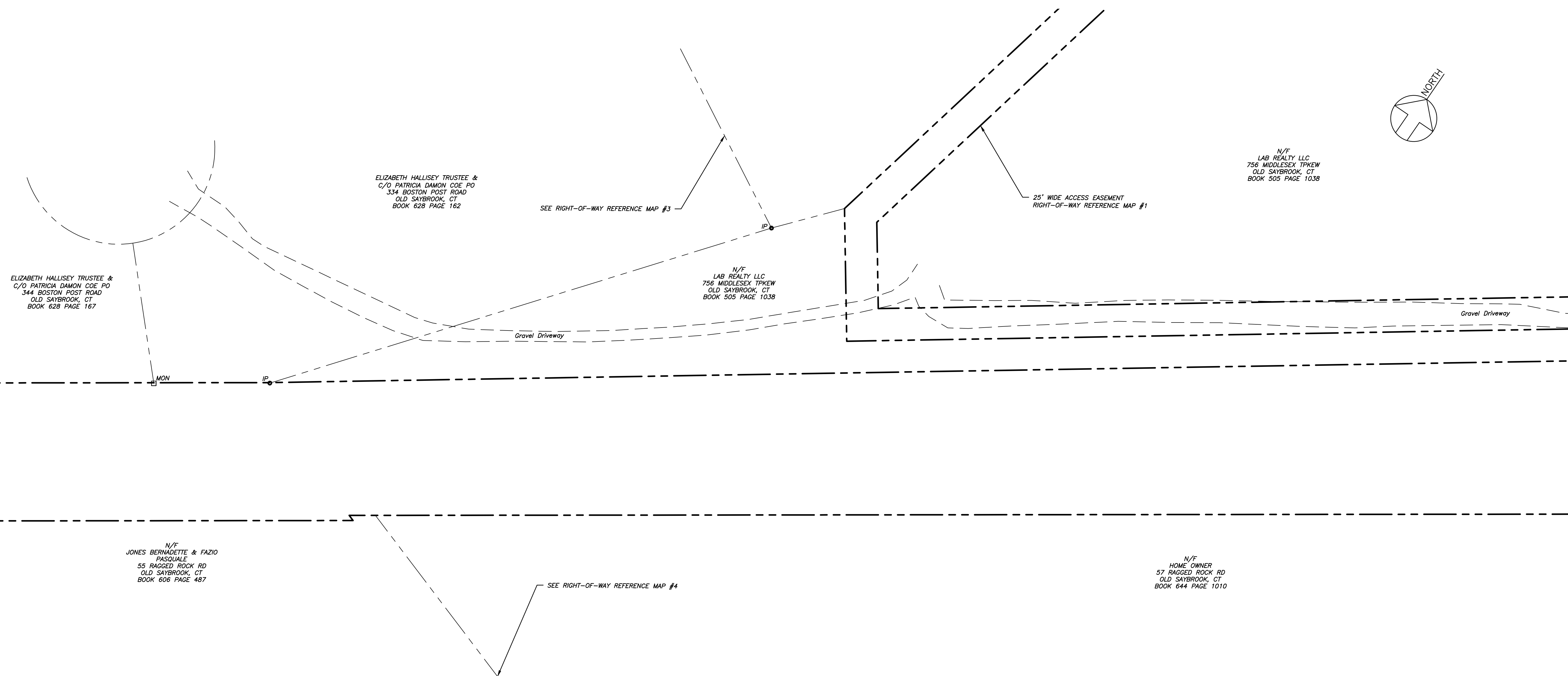
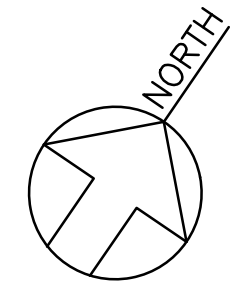


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OLD SAYBROOK CONNECTICUT
**REPLACEMENT OF MB 106.89
 OVER CONNECTICUT RIVER**
GENERAL CIVIL NOTES & LEGEND
 Designed CB Drawn CB/MD Checked KM Date 5/2/2023

Project Code: XXX XXX
 WBS:
 Sheet No. 3 OF 140
 Dwg. No. **GEN-01**

FILE NAME: 212004-CEN-01.DWG
 PRINT DATE/TIME: 5/2/2023 4:23 PM
 PLOT SCALE: AS NOTED
 STANDARD PEN TABLE: YES



MATCH LINE-SEE SHEET 2

SYMBOLS LEGEND

◇ Utility Post	— x —	Metal Fence
□ Sign	— OH —	Overhead Utility
● CAT Tower	— F/O —	Fiber Optic Line (Buried)
— Guy Anchor	— C —	Communication Line (Buried)
☆ Deciduous Tree	— E —	Electric Line (Buried)
★ Coniferous Tree	— WLF —	Wetland Flags
◇ Light Pole	— MLW —	Mean Low Water
x 9.8 Spot Grade	— MHW —	Mean High Water
△ Control Point	— CJL —	Coastal Jurisdiction Line
— Property Line	— LCSTV —	Land Capable of Supporting Tidal Vegetation
- - - - - 100 - - - - - Contour Line	— HTL —	High Tide Line
— Water Line	— FEMA 100 —	Fema 100Year Line
— Gravel Drive		

TIDAL DATUM	NOAA (NAVD88) (ft)
CJL	2.90
MLW	-1.71
MHW	1.60
HTL	3.04
LCSTV	4.10

*ALL ELEVATIONS SHOWN ARE APPROXIMATE AND CONTAINS AN ACCURACY OF 0.10' ± BASED ON RELATION WITH THE USGS AND NOAA GAUGE BENCHMARKS INTERPOLATION AND FIELD VERIFICATION.

FEMA 100-YR FLOOD: ZONE AE EL. 11 (NORTHWEST)
 FEMA 100-YR FLOOD: ZONE AE EL. 10 (NORTHEAST FROM CT RIVER TO LIEUTENANT RIVER)
 FEMA 100-YR FLOOD: ZONE AE EL. 12 (NORTHEAST FROM LIEUTENANT RIVER TO EASTERN EDGE OF WETLANDS)
 FEMA 100-YR FLOOD: ZONE AE EL. 11 (NORTHEAST FROM EASTERN EDGE OF WETLANDS TO EAST)
 FEMA 100-YR FLOOD: ZONE VE EL. 15 (SOUTHWEST)
 FEMA 100-YR FLOOD: ZONE VE EL. 14 (SOUTHEAST)
 FEMA 100-YR FLOOD: ZONE AE EL. 10 (SMALL SECTION OF SOUTHEAST EAST OF PROJECT)

REGULATORY LINES: CJL, MLW, MHW AND FEMA 100-YEAR ARE SHOWN BASED ON THE NOAA GAUGE BENCHMARK INTERPOLATION AND FIELD VERIFICATION.



No.	Revisions	Date	By
1	ADDED R.O.W. LINES & SUBSURFACE UTILITY DATA	1-9-2020	EJN
2	ADDED EVERSOURCE TRANSFORMER OFF R.O.W.	3-15-2021	JPB
3	ADDED MAINTENANCE METAL BOARDWALK	5-11-2021	FV
4	17 SHORE MITIGATION SITE TOPOGRAPHIC UPDATE	10-1-2022	JMW
5	3/4 AMTRAK PARCEL MITIGATION SITE TOPO UPDATE	10-1-2022	JMW
6	DEEP HQ TOPOGRAPHIC UPDATE	10-11-2022	JMW
7	AMTRAK PARCEL, CULVERT AND SHORE ROAD UPDATE	4-07-2023	JT



**Office of Chief Engineer
STRUCTURES**

National Railroad Passenger Corporation
30th Street Station, Philadelphia, Pennsylvania 19104

Approved	Date

PERMIT PLANS

HARDESTY & HANOVER, LLC
ENGINEERING
1501 Broadway New York, NY 10036

MCA MARTINEZ COUCH & ASSOCIATES
1084 Cromwell Avenue, Suite A-2
Rocky Hill, CT 06067
Telephone: (860) 436-4364
Fax: (860) 436-4956
www.martinezcouch.com

OLD SAYBROOK CONNECTICUT

Project Code: XXX XXX

**REPLACEMENT OF MB 106.89
OVER CONNECTICUT RIVER**

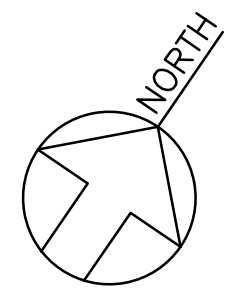
Sheet No. 4 OF 140

EXISTING SITE PLAN

Designed Drawn JBR Checked ARM Date 02/2019

EX-1

FILE NAME: C:\PLOT\SCALE: STANDARD PERMITS



N/F
LAB REALTY LLC
756 MIDDLESEX TPKW
OLD SAYBROOK, CT
BOOK 505 PAGE 1038

N/F
LAB REALTY LLC
756 MIDDLESEX TPKW
OLD SAYBROOK, CT
BOOK 505 PAGE 1038

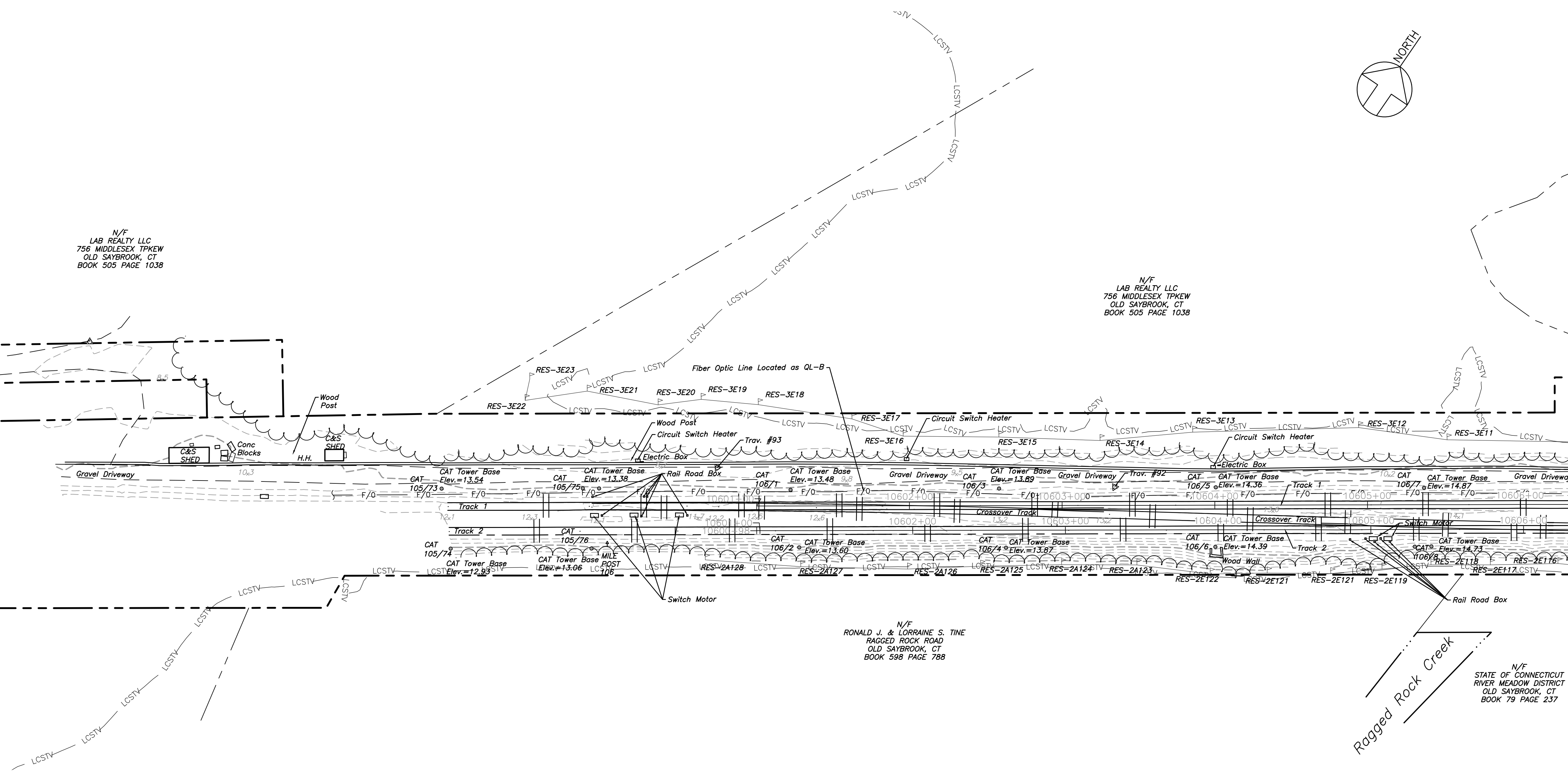
N/F
HOME OWNER
57 RAGGED ROCK RD
OLD SAYBROOK, CT
BOOK 644 PAGE 1010

N/F
RONALD J. & LORRAINE S. TINE
RAGGED ROCK ROAD
OLD SAYBROOK, CT
BOOK 598 PAGE 788

N/F
STATE OF CONNECTICUT
RIVER MEADOW DISTRICT
OLD SAYBROOK, CT
BOOK 79 PAGE 237

MATCH LINE-SEE SHEET 1

MATCH LINE-SEE SHEET 3



TIDAL DATUM	NOAA (NAVD88) (ft)
CJL	2.90
MLW	-1.71
MHW	1.60
HTL	3.04
LCSTV	4.10

SYMBOLS LEGEND

- | | |
|------------------------------|---|
| ◇ Utility Post | — X — Metal Fence |
| △ Sign | — OH — Overhead Utility |
| ● CAT Tower | — F/O — Fiber Optic Line (Buried) |
| — Guy Anchor | — C — Communication Line (Buried) |
| ☆ Deciduous Tree | — E — Electric Line (Buried) |
| ☆ Coniferous Tree | — Wetland Flags |
| ◇ Light Pole | — MLW — Mean Low Water |
| x 9.8 Spot Grade | — MHW — Mean High Water |
| △ Control Point | — CJL — Coastal Jurisdiction Line |
| — Property Line | — LCSTV — Land Capable of Supporting Tidal Vegetation |
| - - - 100 - - - Contour Line | — HTL — High Tide Line |
| — Water Line | — FEMA 100 — FEMA 100 Year Line |
| - - - Gravel Drive | |

*ALL ELEVATIONS SHOWN ARE APPROXIMATE AND CONTAINS AN ACCURACY OF 0.10' ± BASED ON RELATION WITH THE USGS AND NOAA GAUGE BENCHMARKS INTERPOLATION AND FIELD VERIFICATION.

FEMA 100-YR FLOOD: ZONE AE EL. 11 (NORTHWEST)
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 FEMA 100-YR FLOOD: ZONE AE EL. 10 (SMALL SECTION OF SOUTHEAST EAST OF PROJECT)

REGULATORY LINES: CJL, MLW, MHW AND FEMA 100-YEAR ARE SHOWN BASED ON THE NOAA GAUGE BENCHMARK INTERPOLATION AND FIELD VERIFICATION.



ENVIRONMENTAL PERMIT PLANS
PLAN DATE: MAY 2, 2023

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**Office of Chief Engineer
STRUCTURES**

National Railroad Passenger Corporation
30th Street Station, Philadelphia, Pennsylvania 19104

Approved	Date

PERMIT PLANS

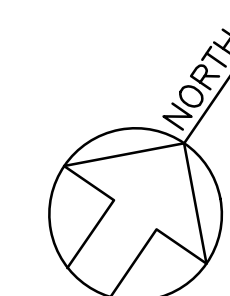
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OLD SAYBROOK CONNECTICUT		Project Code: XXX XXX
REPLACEMENT OF MB 106.89 OVER CONNECTICUT RIVER		WBS:
EXISTING SITE PLAN		Sheet No. 5 OF 140
Designed	Drawn JBR	Checked ARM
Date 02/2019		

EX-2

FILE NAME:
PLOT SCALE:
STANDARD PERMITS:



MATCH LINE-SEE SHEET 2

MATCH LINE-SEE SHEET 4

N/F
RAGGED ROCK MARINA CORP
54 FERRY ROAD
OLD SAYBROOK, CT
BOOK 153 PAGE 240

N/F
RAGGED ROCK MARINA CORP
FERRY PLACE
OLD SAYBROOK, CT
BOOK 185 PAGE 964

N/F
STATE OF CONNECTICUT
RIVER MEADOW DISTRICT
OLD SAYBROOK, CT
BOOK 79 PAGE 237

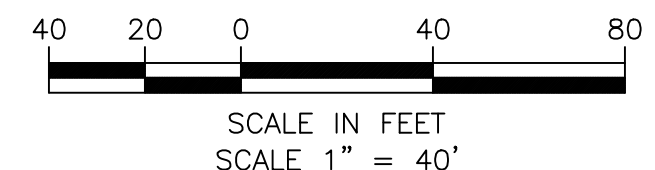
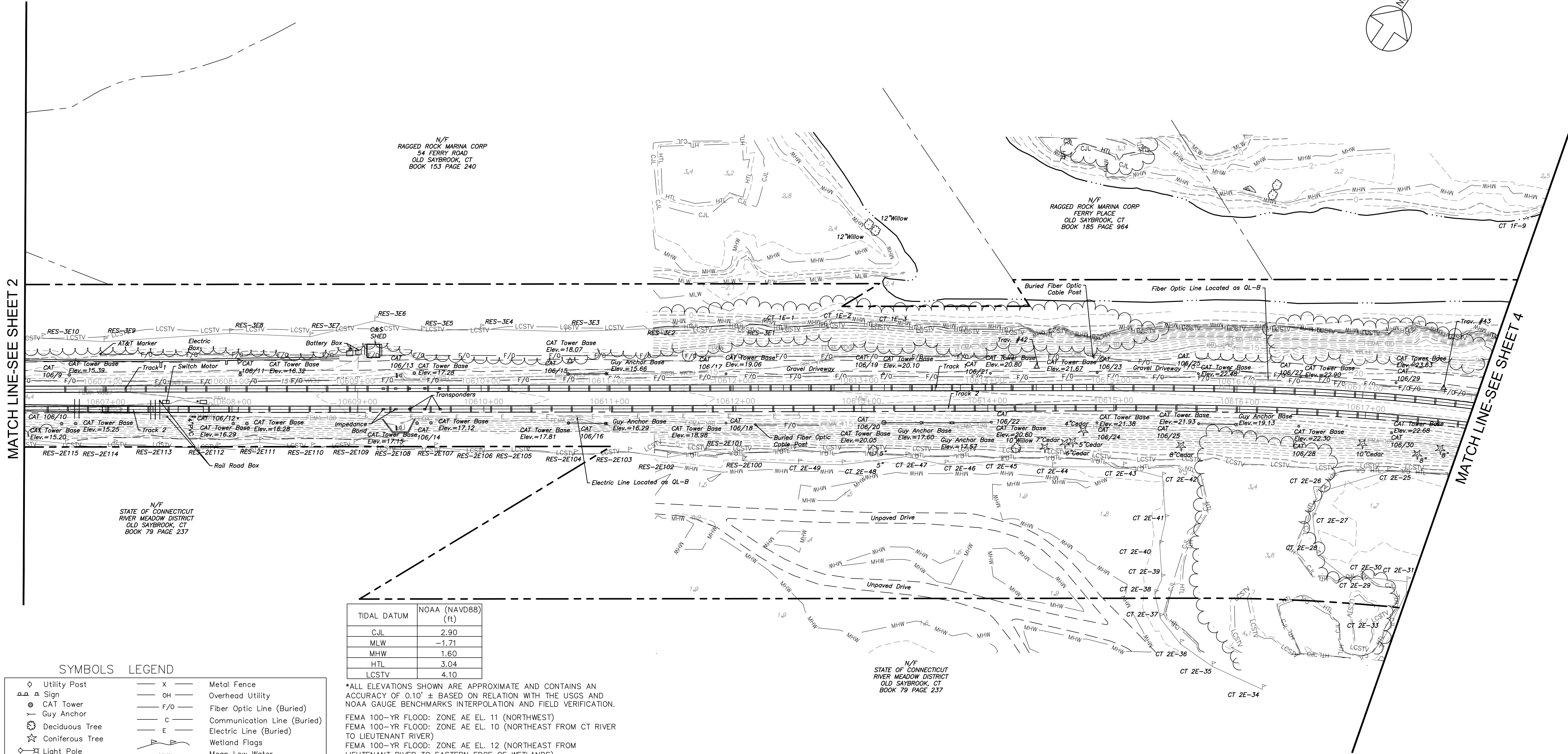
TIDAL DATUM	NOAA (NAVD88) (ft)
CJL	2.90
MLW	-1.71
MHW	1.60
HTL	3.04
LCSTV	4.10

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SYMBOLS		LEGEND	
○	Utility Post	— X —	Metal Fence
□	Sign	— OH —	Overhead Utility
●	CAT Tower	— F/O —	Fiber Optic Line (Buried)
—	Guy Anchor	— C —	Communication Line (Buried)
○	Deciduous Tree	— E —	Electric Line (Buried)
★	Coniferous Tree	— W —	Wetland Flags
○	Light Pole	— MLW —	Mean Low Water
9.8	Spot Grade	— MHW —	Mean High Water
△	Control Point	— CJL —	Coastal Jurisdiction Line
—	Property Line	— LCSTV —	Land Capable of Supporting Tidal Vegetation
— 100 —	Contour Line	— HTL —	High Tide Line
—	Water Line	— FEMA 100 —	Fema 100Year Line
—	Gravel Drive		



ENVIRONMENTAL PERMIT PLANS
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National Railroad Passenger Corporation
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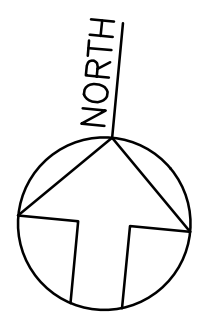
OLD SAYBROOK CONNECTICUT

**REPLACEMENT OF MB 106.89
OVER CONNECTICUT RIVER**

EXISTING SITE PLAN

Designed: Drawn: JBR Checked: ARM Date: 02/2019

Project Code: XXX XXX
WBS:
Sheet No. 6 OF 140
Dwg. No. **EX-3**



N/F
RAGGED ROCK MARINA CORP
FERRY PLACE
OLD SAYBROOK, CT
BOOK 185 PAGE 964

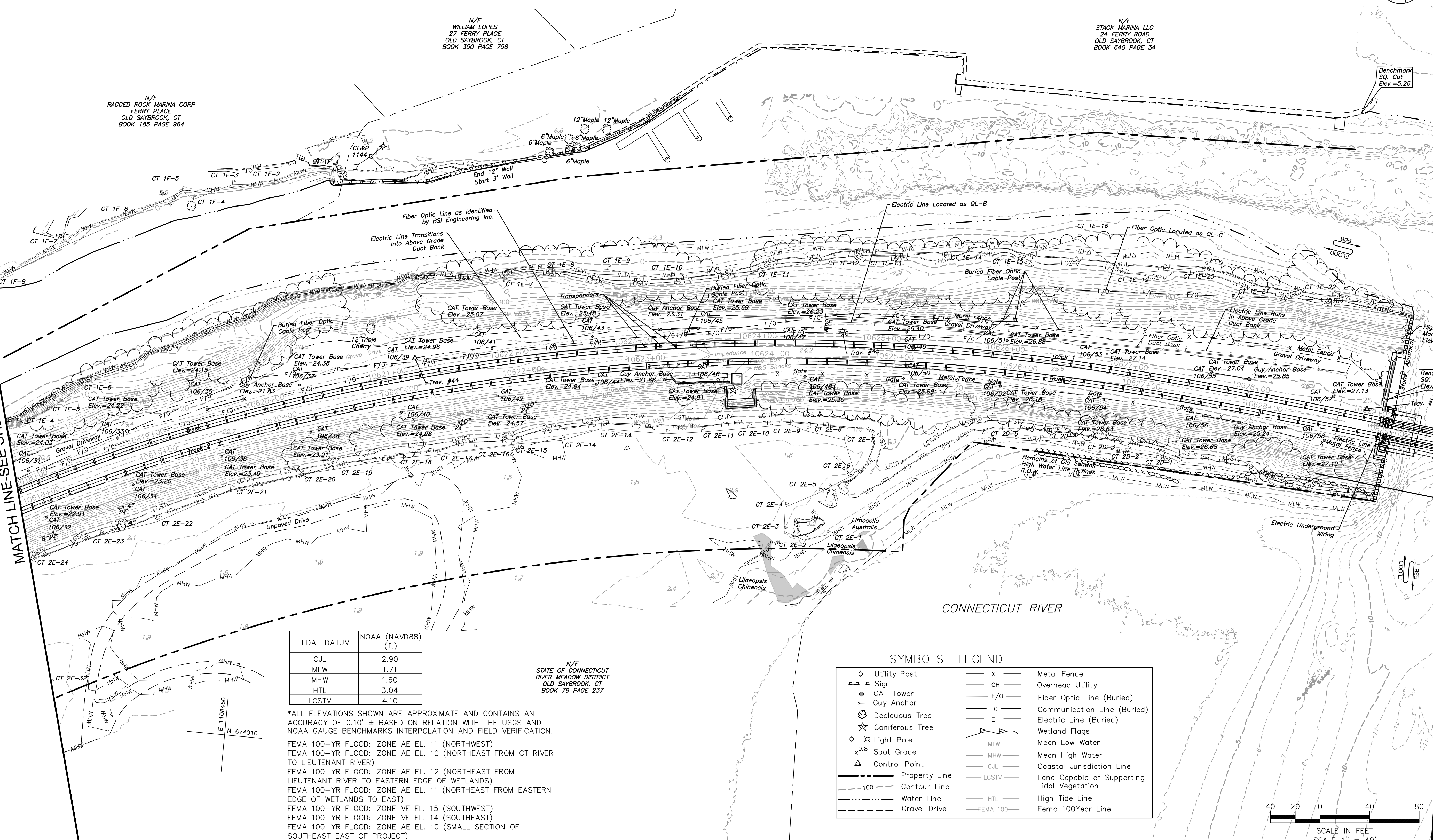
N/F
WILLIAM LOPES
27 FERRY PLACE
OLD SAYBROOK, CT
BOOK 350 PAGE 758

N/F
STACK MARINA LLC
24 FERRY ROAD
OLD SAYBROOK, CT
BOOK 640 PAGE 34

Benchmark
SQ. Cut
Elev.=5.26

MATCH LINE-SEE SHEET 5

MATCH LINE-SEE SHEET 3



TIDAL DATUM	NOAA (NAVD88) (ft)
CJL	2.90
MLW	-1.71
MHW	1.60
HTL	3.04
LCSTV	4.10

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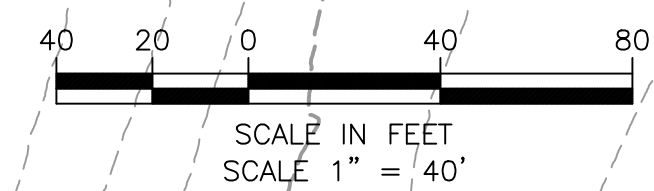
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N/F
STATE OF CONNECTICUT
RIVER MEADOW DISTRICT
OLD SAYBROOK, CT
BOOK 79 PAGE 237

SYMBOLS LEGEND

○	Utility Post	X	Metal Fence
□	Sign	— O —	Overhead Utility
●	CAT Tower	— F/O —	Fiber Optic Line (Buried)
—	Guy Anchor	— C —	Communication Line (Buried)
⊙	Deciduous Tree	— E —	Electric Line (Buried)
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△	Control Point	— CJL —	Coastal Jurisdiction Line
—	Property Line	— LCSTV —	Land Capable of Supporting Tidal Vegetation
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—	Water Line	— FEMA 100 —	Fema 100Year Line
—	Gravel Drive		



ENVIRONMENTAL PERMIT PLANS
PLAN DATE: MAY 2, 2023

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National Railroad Passenger Corporation
30th Street Station, Philadelphia, Pennsylvania 19104

Approved	Date

PERMIT PLANS

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OLD SAYBROOK CONNECTICUT

Project Code: XXX XXX

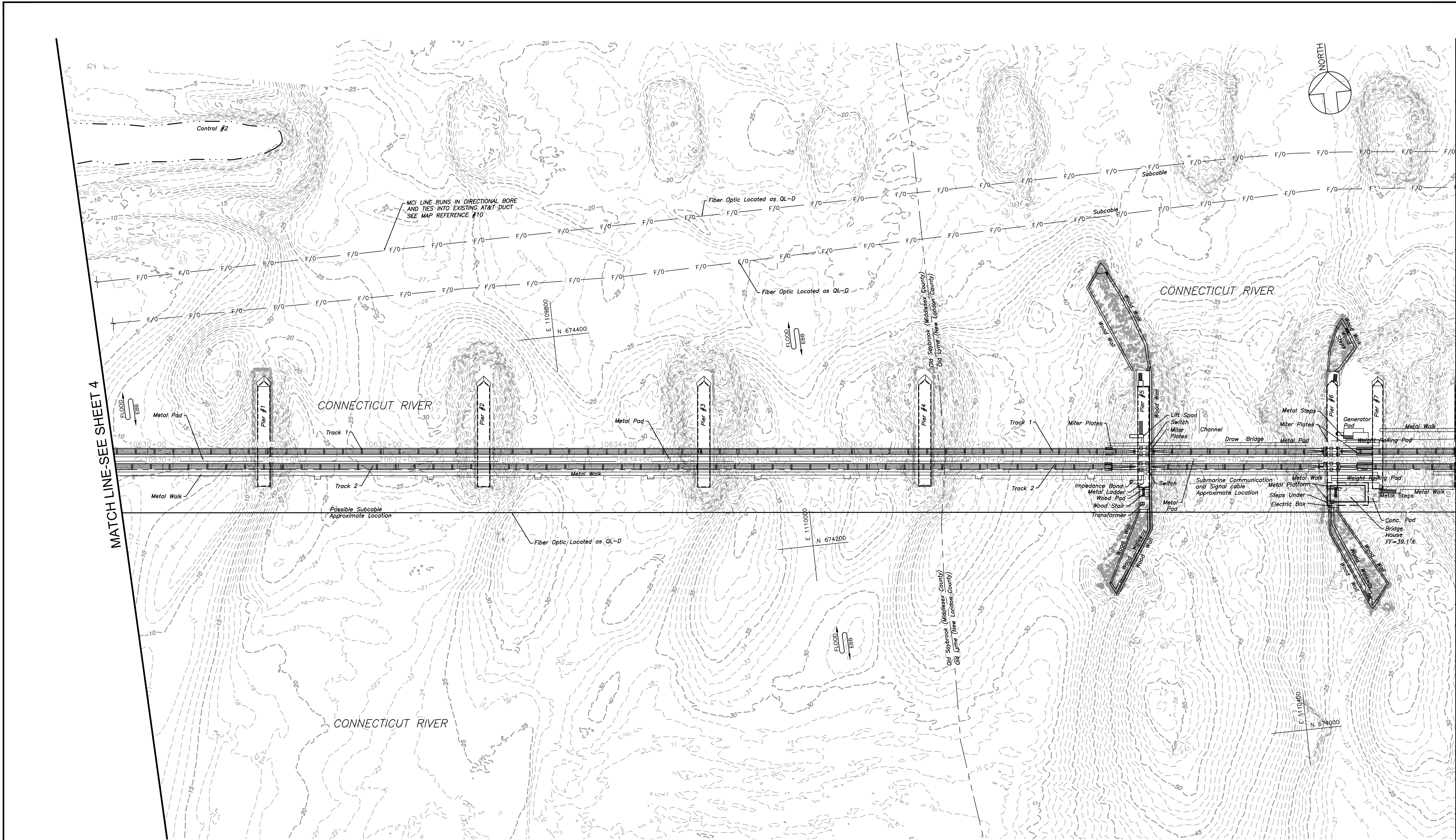
REPLACEMENT OF MB 106.89
OVER CONNECTICUT RIVER

EXISTING SITE PLAN

Designed: [] Drawn: JBR Checked: ARM Date: 02/2019

Sheet No. 7 OF 140

Draw. No. **EX-4**



ENVIRONMENTAL PERMIT PLANS
 PLAN DATE: MAY 2, 2023

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OLD SAYBROOK CONNECTICUT

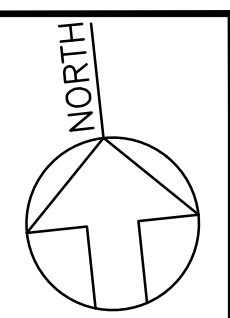
**REPLACEMENT OF MB 106.89
 OVER CONNECTICUT RIVER**

EXISTING SITE PLAN

Designed: [] Drawn: JBR Checked: ARM Date: 02/2019

Project Code:	XXX XXX
WBS:	
Sheet No.:	8 OF 140
Dwg. No.:	EX-5

FILE NAME: []
 PLOT SCALE: []
 STANDARD PEN TABLE: []

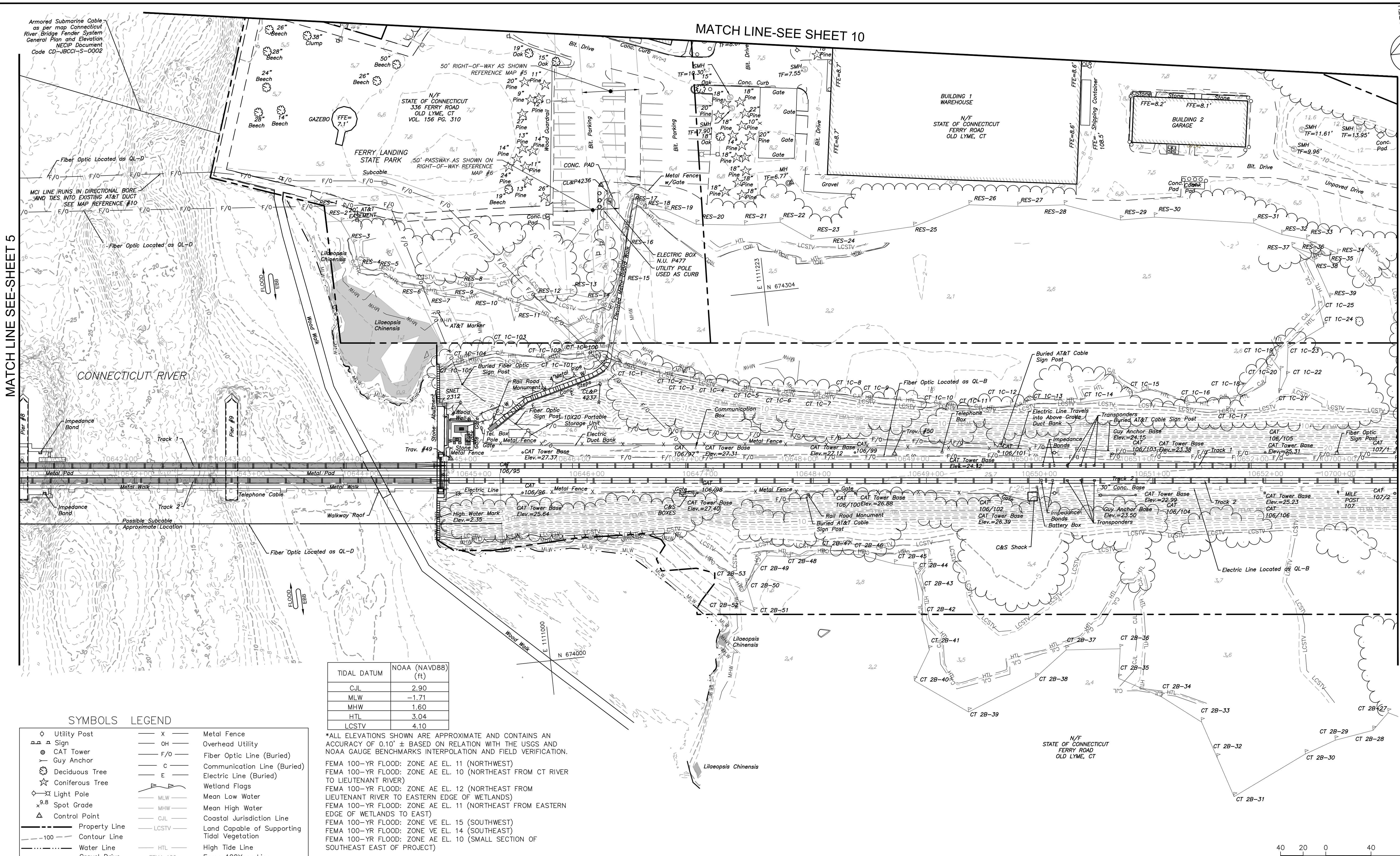


MATCH LINE-SEE SHEET 10

Armored Submarine Cable as per map Connecticut River Bridge Fender System General Plan and Elevation NECP Document Code CD-JBCC1-S-0002

MATCH LINE SEE SHEET 5

MATCH LINE-SEE SHEET 7



TIDAL DATUM	NOAA (NAVD88) (ft)
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MLW	-1.71
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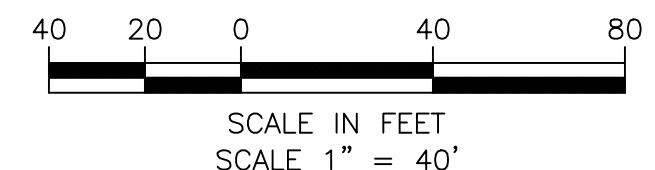
SYMBOLS LEGEND

Utility Post	— x —	Metal Fence
Sign	— OH —	Overhead Utility
CAT Tower	— F/O —	Fiber Optic Line (Buried)
Guy Anchor	— c —	Communication Line (Buried)
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Gravel Drive		

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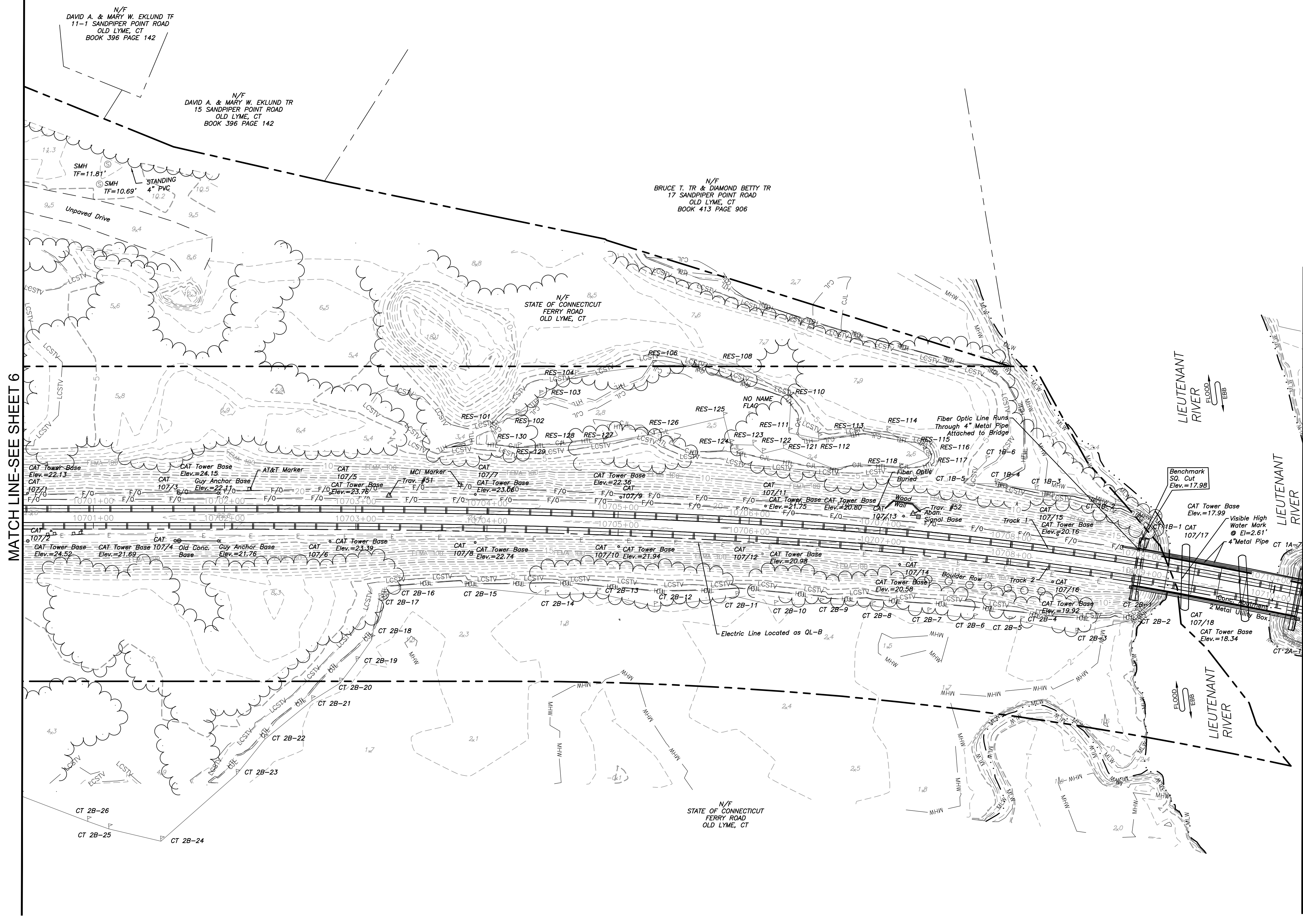
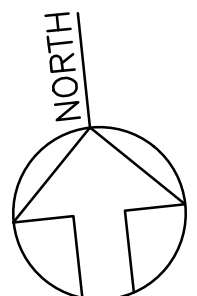
OLD SAYBROOK CONNECTICUT

**REPLACEMENT OF MB 106.89
 OVER CONNECTICUT RIVER**

EXISTING SITE PLAN

Designed: Drawn: JBR Checked: ARM Date: 02/2019

Project Code: XXX XXX
 WBS: 9 OF 140
 Sheet No. 9 OF 140
 Drawing No. **EX-6**



MATCH LINE-SEE SHEET 6

MATCH LINE-SEE SHEET 8

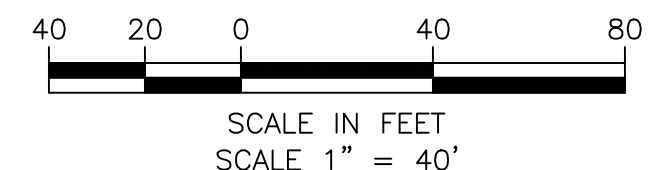
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4	17 SHORE MITIGATION SITE TOPOGRAPHIC UPDATE	10-1-2022	JMW
5	3/4 AMTRAK PARCEL MITIGATION SITE TOPO UPDATE	10-1-2022	JMW
6	DEEP HQ TOPOGRAPHIC UPDATE	10-11-2022	JMW
7	AMTRAK PARCEL, CULVERT AND SHORE ROAD UPDATE	4-07-2023	JT

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Office of Chief Engineer
STRUCTURES

National Railroad Passenger Corporation
30th Street Station, Philadelphia, Pennsylvania 19104

Approved	Date

PERMIT PLANS

HARDESTY & HANOVER, LLC
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1501 Broadway New York, NY 10036

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1084 Cromwell Avenue, Suite A-2
Rocky Hill, CT 06067
Telephone: (860) 436-4364
Fax: (860) 436-4626
www.martinezcouch.com

OLD SAYBROOK CONNECTICUT

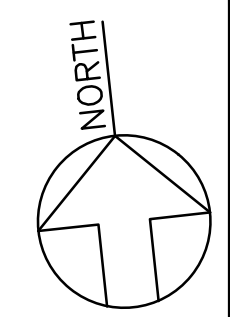
**REPLACEMENT OF MB 106.89
OVER CONNECTICUT RIVER**

EXISTING SITE PLAN

Designed: [] Drawn: JBR Checked: ARM Date: 02/2019

Project Code: XXX XXX
WBS: []
Sheet No. 10 OF 140
Draw. No. **EX-7**

FILE NAME: []
PLOT SCALE: []
STANDARD PEN TABLE: []



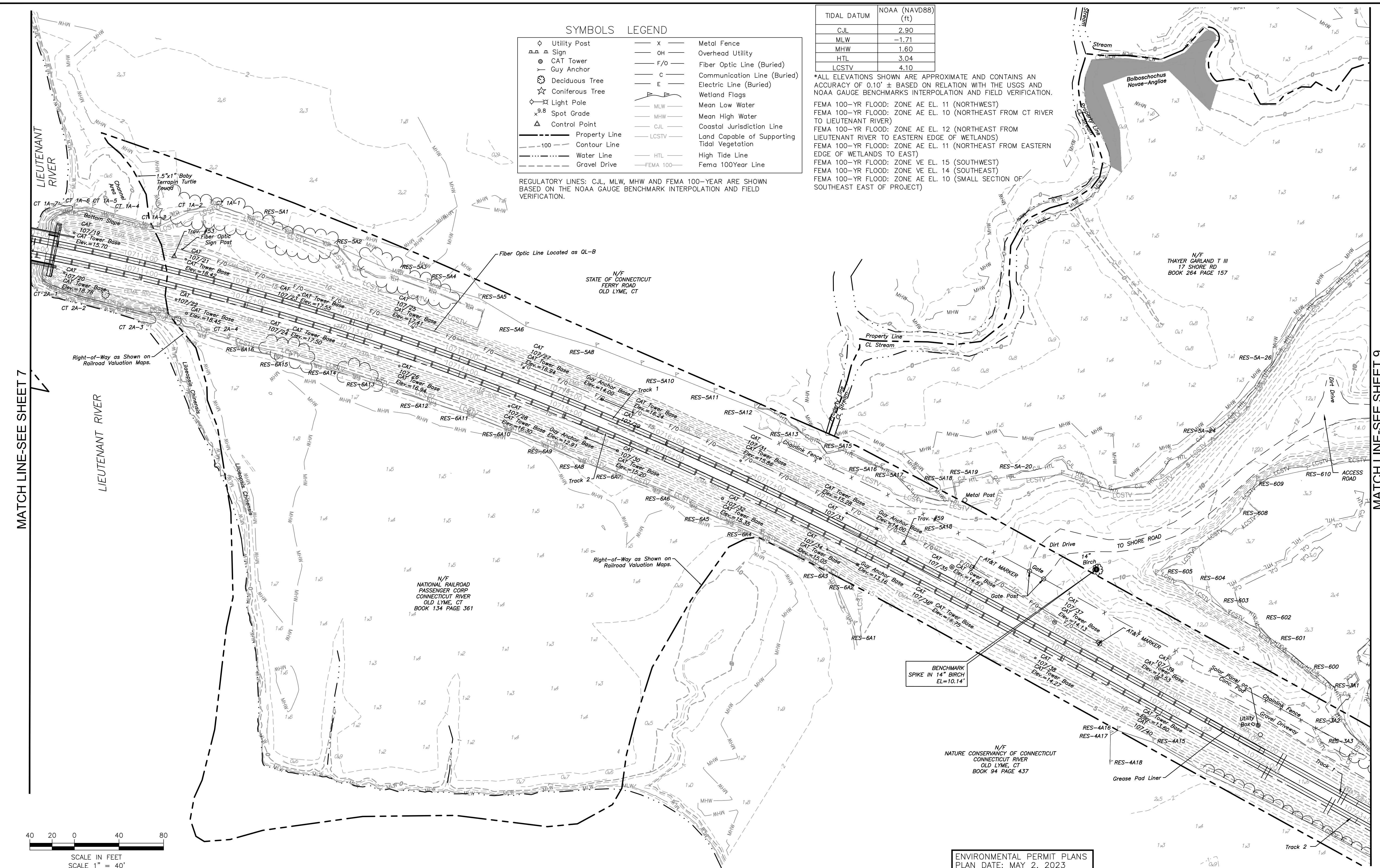
TIDAL DATUM	NOAA (NAVD88) (ft)
CJL	2.90
MLW	-1.71
MHW	1.60
HTL	3.04
LCSTV	4.10

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FEMA 100-YR FLOOD: ZONE AE EL. 11 (NORTHWEST)
 FEMA 100-YR FLOOD: ZONE AE EL. 10 (NORTHEAST FROM CT RIVER TO LIUEUTENANT RIVER)
 FEMA 100-YR FLOOD: ZONE AE EL. 12 (NORTHEAST FROM LIUEUTENANT RIVER TO EASTERN EDGE OF WETLANDS)
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 FEMA 100-YR FLOOD: ZONE VE EL. 14 (SOUTHEAST)
 FEMA 100-YR FLOOD: ZONE AE EL. 10 (SMALL SECTION OF SOUTHEAST EAST OF PROJECT)

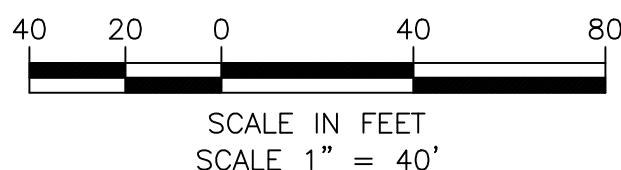
SYMBOLS LEGEND			
○	Utility Post	x	Metal Fence
□	Sign	OH	Overhead Utility
●	CAT Tower	F/O	Fiber Optic Line (Buried)
○	Guy Anchor	C	Communication Line (Buried)
○	Deciduous Tree	E	Wetland Flags
○	Coniferous Tree	MLW	Mean Low Water
○	Light Pole	MHW	Mean High Water
○	Spot Grade	CJL	Coastal Jurisdiction Line
△	Control Point	LCSTV	Land Capable of Supporting Tidal Vegetation
---	Property Line	HTL	High Tide Line
- - -	Contour Line	FEMA 100	Fema 100Year Line
---	Water Line		
---	Gravel Drive		

REGULATORY LINES: CJL, MLW, MHW AND FEMA 100-YEAR ARE SHOWN BASED ON THE NOAA GAUGE BENCHMARK INTERPOLATION AND FIELD VERIFICATION.



MATCH LINE-SEE SHEET 7

MATCH LINE-SEE SHEET 9



No.	Revisions	Date	By
1	ADDED R.O.W. LINES & SUBSURFACE UTILITY DATA	1-9-2020	EJN
2	ADDED EVERSOURCE TRANSFORMER OFF R.O.W.	3-15-2021	JPB
3	ADDED MAINTENANCE METAL BOARDWALK	5-11-2021	FV
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5	3/4 AMTRAK PARCEL MITIGATION SITE TOPO UPDATE	10-1-2022	JMW
6	DEEP HQ TOPOGRAPHIC UPDATE	10-11-2022	JMW
7	AMTRAK PARCEL, CULVERT AND SHORE ROAD UPDATE	4-07-2023	JT

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 National Railroad Passenger Corporation
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OLD SAYBROOK CONNECTICUT

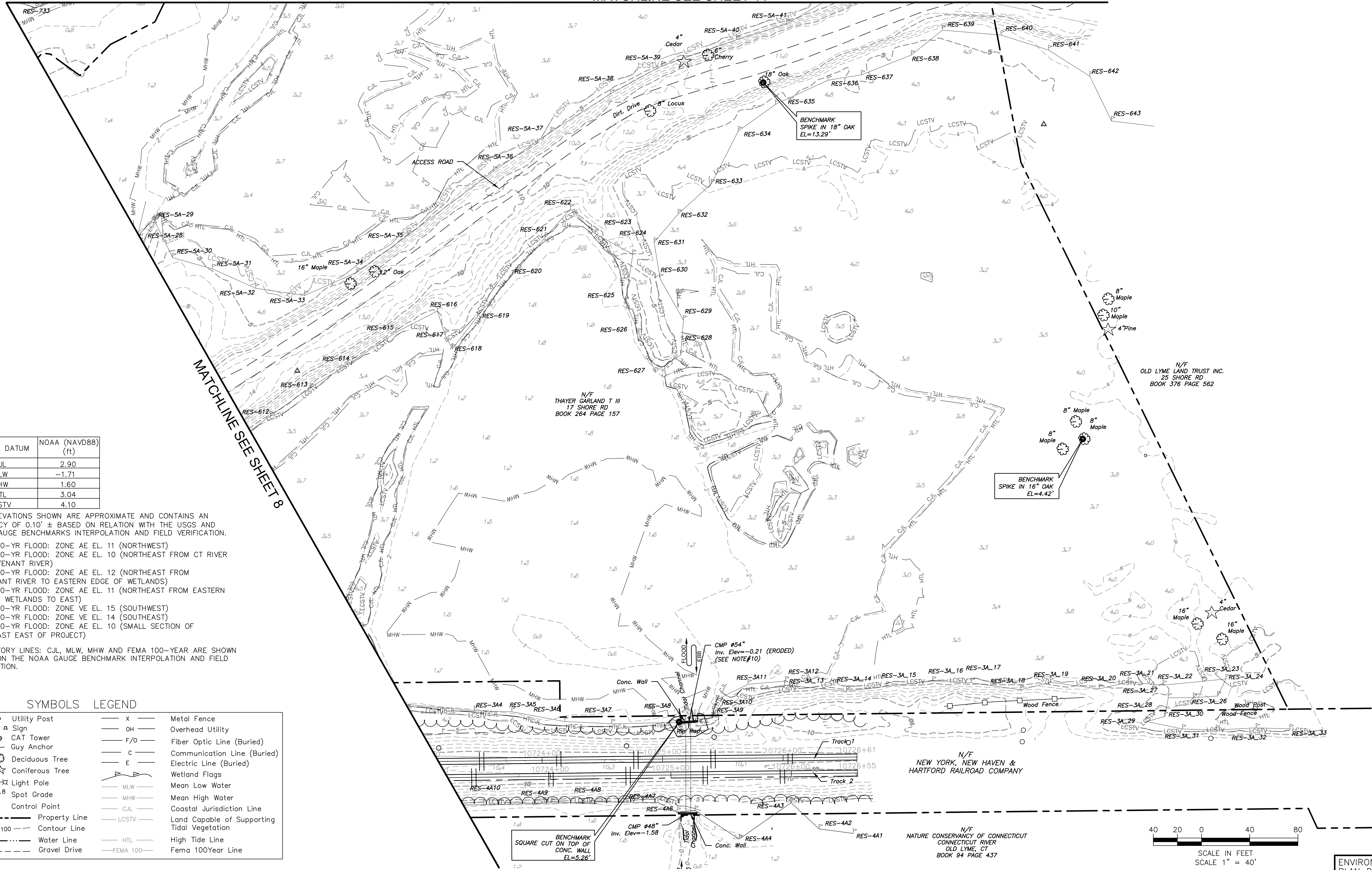
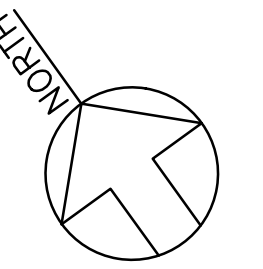
REPLACEMENT OF MB 106.89 OVER CONNECTICUT RIVER

EXISTING SITE PLAN

Designed: [] Drawn: JBR Checked: ARM Date: 10-28-2022

Project Code: XXX XXX
 WBS: []
 Sheet No. 11 OF 140
 Draw. No. **EX-8**

MATCHLINE SEE SHEET 11



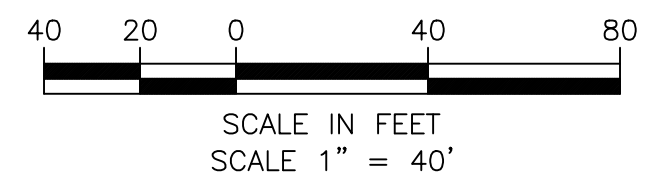
TIDAL DATUM	NOAA (NAVD88) (ft)
CJL	2.90
MLW	-1.71
MHW	1.60
HTL	3.04
LCSTV	4.10

*ALL ELEVATIONS SHOWN ARE APPROXIMATE AND CONTAINS AN ACCURACY OF 0.10' ± BASED ON RELATION WITH THE USGS AND NOAA GAUGE BENCHMARKS INTERPOLATION AND FIELD VERIFICATION.

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 FEMA 100-YR FLOOD: ZONE AE EL. 10 (NORTHEAST FROM CT RIVER TO LIEUTENANT RIVER)
 FEMA 100-YR FLOOD: ZONE AE EL. 12 (NORTHEAST FROM LIEUTENANT RIVER TO EASTERN EDGE OF WETLANDS)
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 FEMA 100-YR FLOOD: ZONE VE EL. 15 (SOUTHWEST)
 FEMA 100-YR FLOOD: ZONE VE EL. 14 (SOUTHEAST)
 FEMA 100-YR FLOOD: ZONE AE EL. 10 (SMALL SECTION OF SOUTHEAST EAST OF PROJECT)

REGULATORY LINES: CJL, MLW, MHW AND FEMA 100-YEAR ARE SHOWN BASED ON THE NOAA GAUGE BENCHMARK INTERPOLATION AND FIELD VERIFICATION.

SYMBOLS		LEGEND	
○	Utility Post	— X —	Metal Fence
△	Sign	— OH —	Overhead Utility
○	CAT Tower	— F/O —	Fiber Optic Line (Buried)
—	Guy Anchor	— C —	Communication Line (Buried)
○	Deciduous Tree	— E —	Electric Line (Buried)
★	Coniferous Tree	— W —	Wetland Flags
○	Light Pole	— MLW —	Mean Low Water
○	Spot Grade	— MHW —	Mean High Water
△	Control Point	— CJL —	Coastal Jurisdiction Line
—	Property Line	— LCSTV —	Land Capable of Supporting Tidal Vegetation
—	100' Contour Line	— HTL —	High Tide Line
—	Water Line	— FEMA 100 —	Fema 100Year Line
—	Gravel Drive		



No.	Revisions	Date	By
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Approved	Date

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OLD SAYBROOK CONNECTICUT

Project Code: XXX XXX

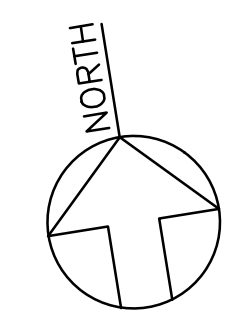
REPLACEMENT OF MB 106.89 OVER CONNECTICUT RIVER

EXISTING SITE PLAN

Sheet No. 12 OF 140

Env. No. **EX-9**

Designed: Drawn: JBR Checked: ARM Date: 02/2019



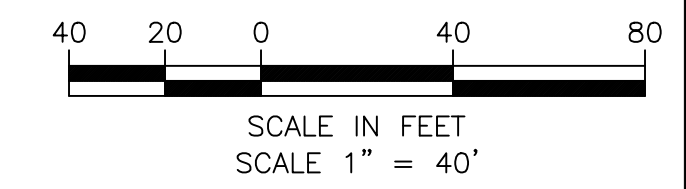
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MLW	-1.71
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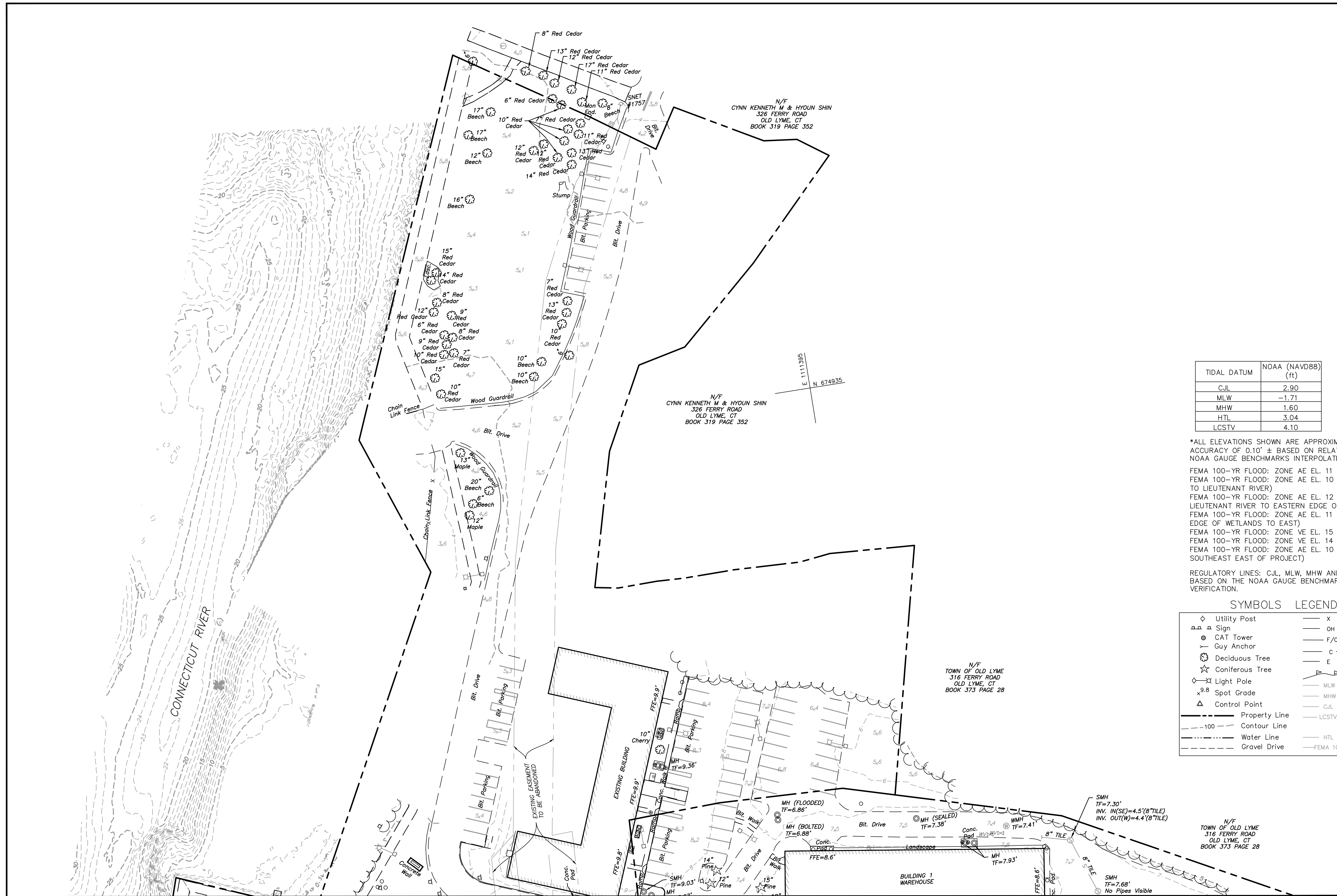
- FEMA 100-YR FLOOD: ZONE AE EL. 11 (NORTHWEST)
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REGULATORY LINES: CJL, MLW, MHW AND FEMA 100-YEAR ARE SHOWN BASED ON THE NOAA GAUGE BENCHMARK INTERPOLATION AND FIELD VERIFICATION.

SYMBOLS LEGEND	
◇ Utility Post	x Metal Fence
□ Sign	OH Overhead Utility
● CAT Tower	F/O Fiber Optic Line (Buried)
— Guy Anchor	c Communication Line (Buried)
⊙ Deciduous Tree	E Electric Line (Buried)
☆ Coniferous Tree	Wetland Flags
◇ Light Pole	MLW Mean Low Water
×9.8 Spot Grade	MHW Mean High Water
△ Control Point	CJL Coastal Jurisdiction Line
— Property Line	LCSTV Land Capable of Supporting Tidal Vegetation
- - - - - Contour Line	HTL High Tide Line
- · - · - Water Line	FEMA 100 Fema 100Year Line
- - - - - Gravel Drive	



MATCHLINE SEE SHEET 6



No.	Revisions	Date	By
1	ADDED R.O.W. LINES & SUBSURFACE UTILITY DATA	1-9-2020	EJN
2	ADDED EVERSOURCE TRANSFORMER OFF R.O.W.	3-15-2021	UPB
3	ADDED MAINTENANCE METAL BOARDWALK	5-11-2021	FV
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7	AMTRAK PARCEL, CULVERT AND SHORE ROAD UPDATE	4-07-2023	JT

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OLD SAYBROOK CONNECTICUT

Project Code: XXX XXX

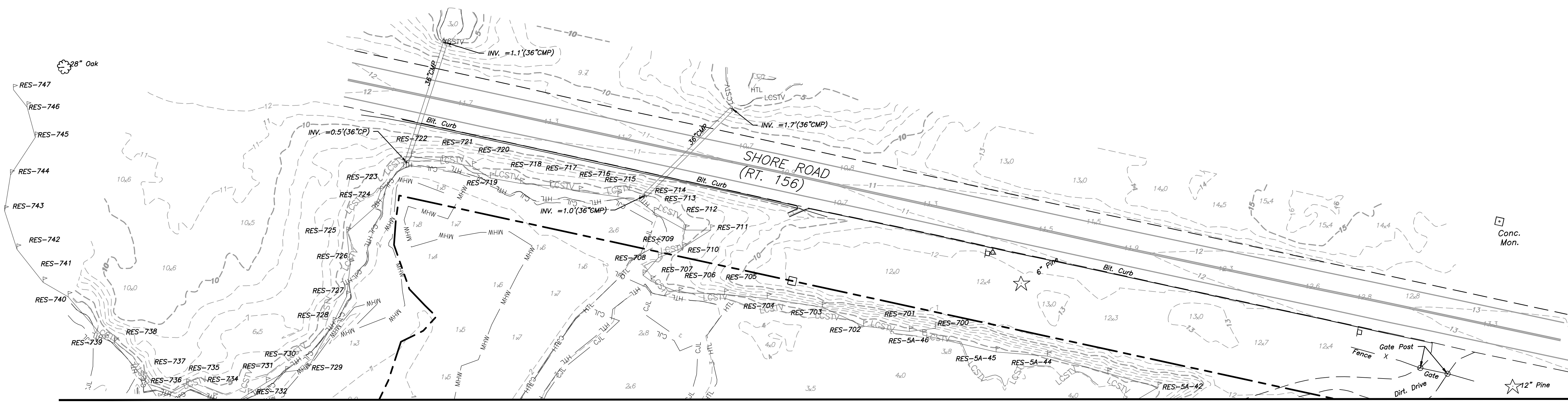
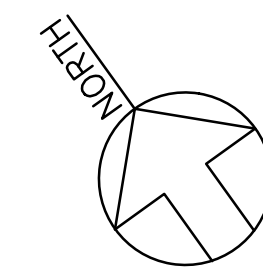
REPLACEMENT OF MB 106.89 OVER CONNECTICUT RIVER

Sheet No. 13 OF 140

EXISTING SITE PLAN

Designed: Drawn: JBR Checked: ARM Date: 02/2019

Drawn No. **EX-10**



MATCHLINE SEE SHEET 9

TIDAL DATUM	NOAA (NAVD88) (ft)
CJL	2.90
MLW	-1.71
MHW	1.60
HTL	3.04
LCSTV	4.10

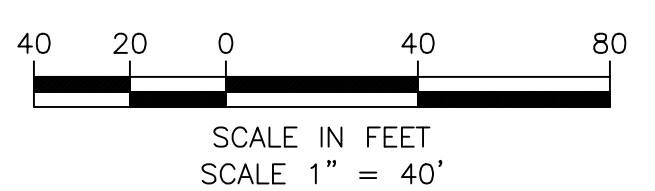
SYMBOLS LEGEND

○ Utility Post	— x — Metal Fence
□ Sign	— OH — Overhead Utility
● CAT Tower	— F/O — Fiber Optic Line (Buried)
— Guy Anchor	— c — Communication Line (Buried)
⊗ Deciduous Tree	— E — Electric Line (Buried)
★ Coniferous Tree	— Wetland Flags
○ Light Pole	— MLW — Mean Low Water
⊗ Spot Grade	— MHW — Mean High Water
△ Control Point	— CJL — Coastal Jurisdiction Line
— Property Line	— LCSTV — Land Capable of Supporting Tidal Vegetation
— 100 — Contour Line	— HTL — High Tide Line
— Water Line	— FEMA 100 — Fema 100Year Line
— Gravel Drive	

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REGULATORY LINES: CJL, MLW, MHW AND FEMA 100-YEAR ARE SHOWN BASED ON THE NOAA GAUGE BENCHMARK INTERPOLATION AND FIELD VERIFICATION.



ENVIRONMENTAL PERMIT PLANS
 PLAN DATE: MAY 2, 2023

No.	Revisions	Date	By
1	ADDED R.O.W. LINES & SUBSURFACE UTILITY DATA	1-9-2020	EJN
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OLD SAYBROOK CONNECTICUT

Project Code: XXX XXX

REPLACEMENT OF MB 106.89
 OVER CONNECTICUT RIVER

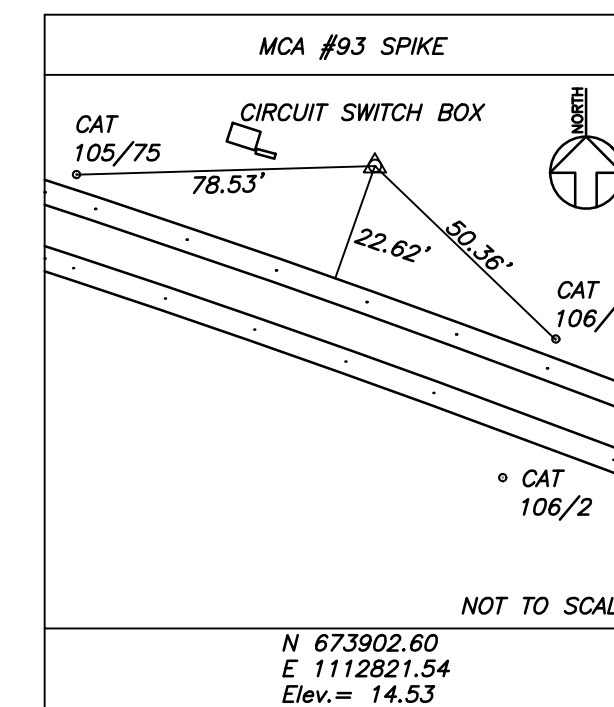
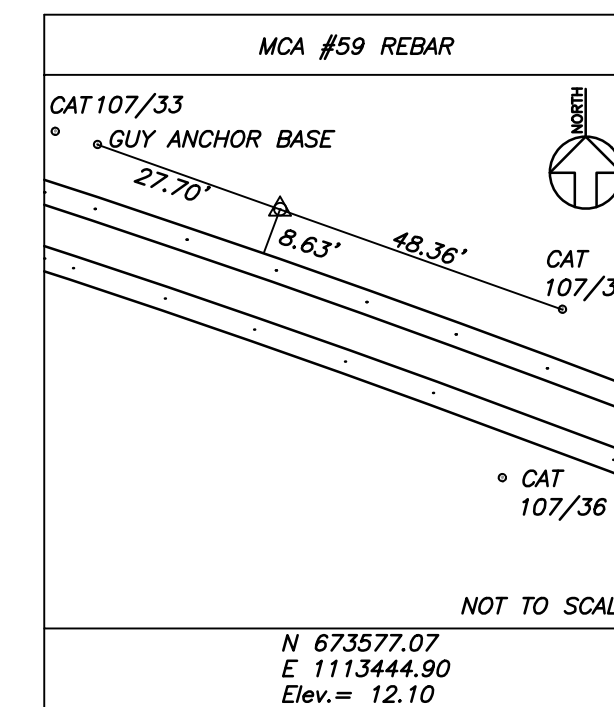
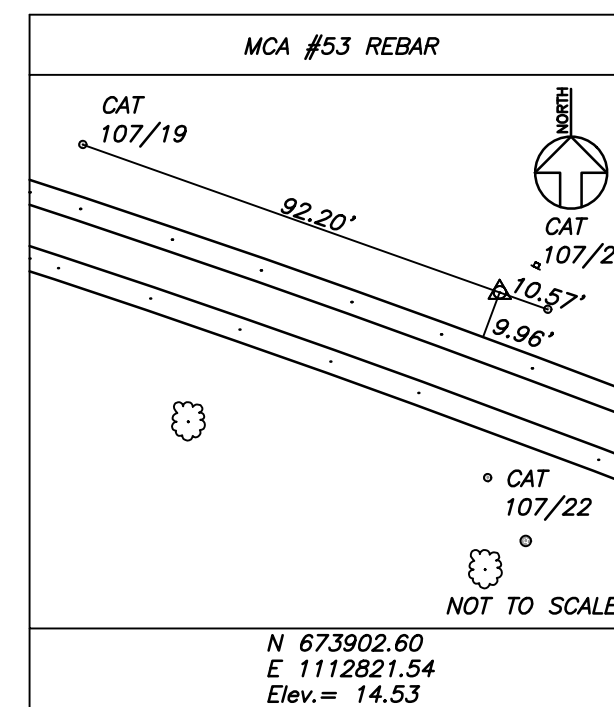
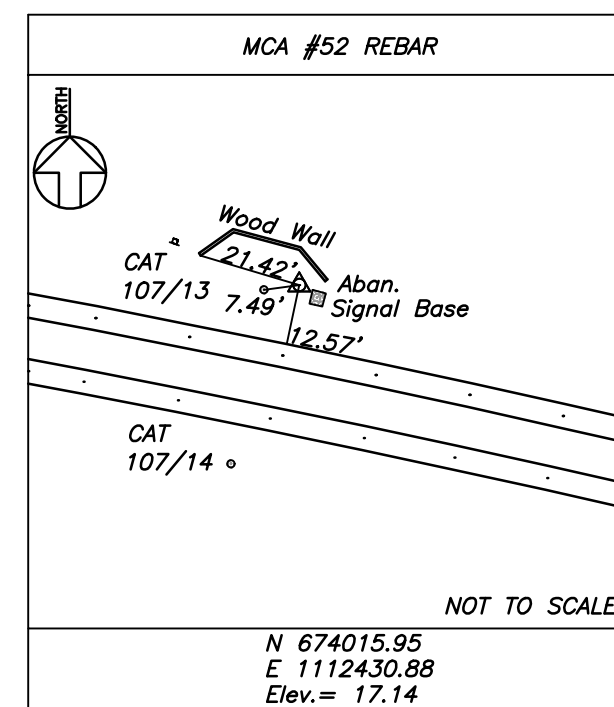
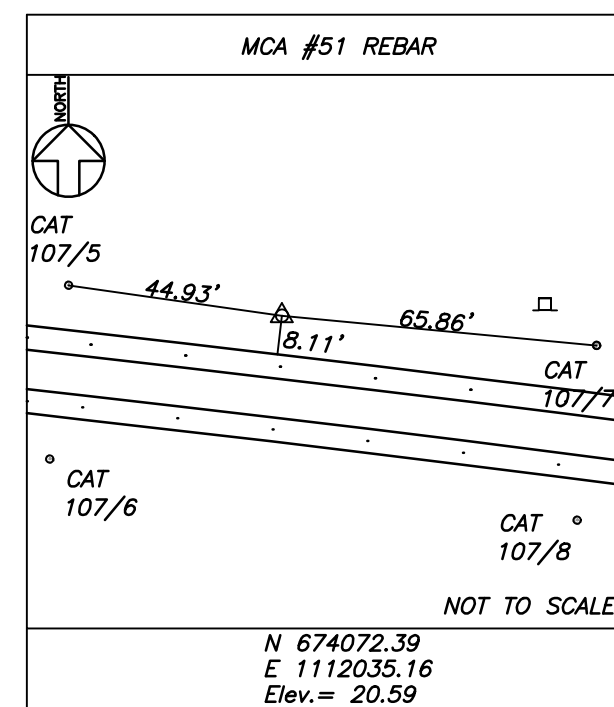
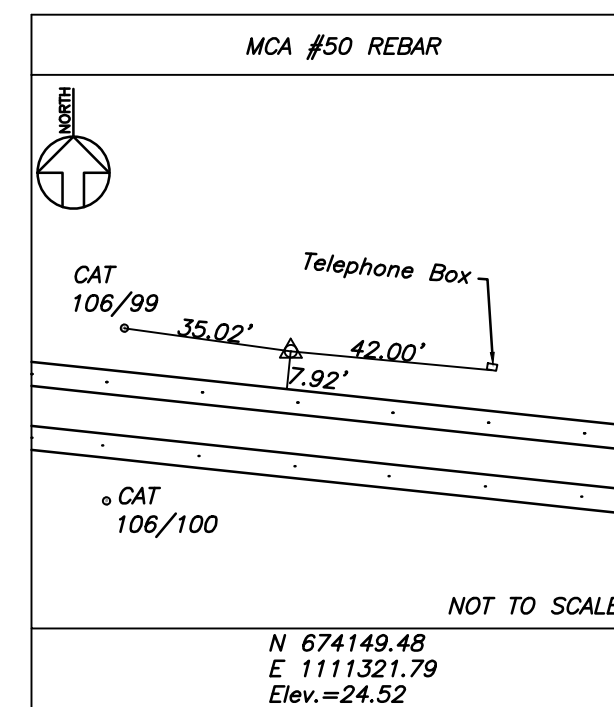
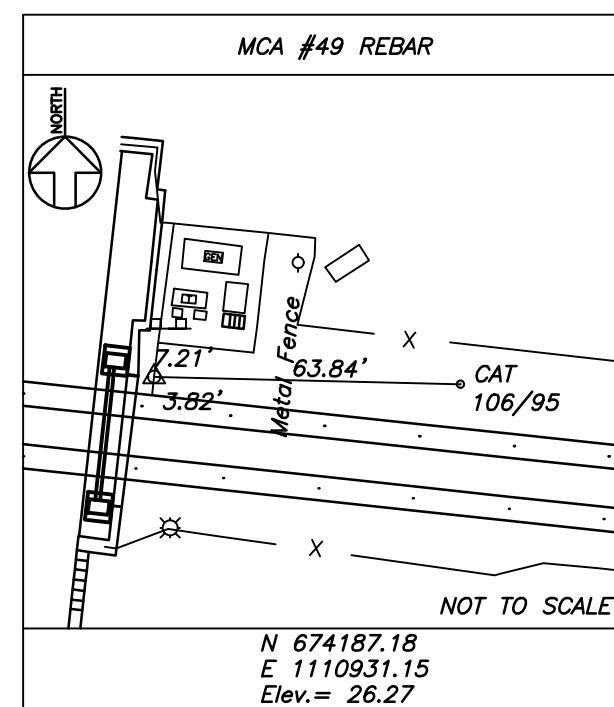
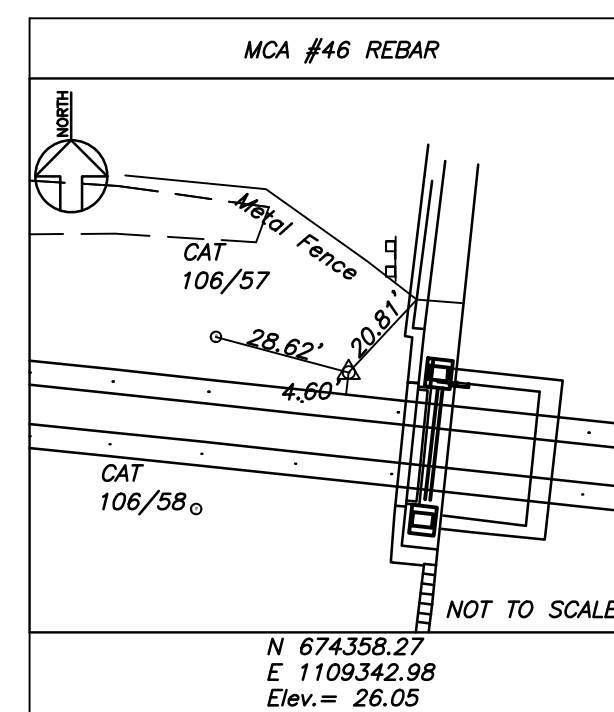
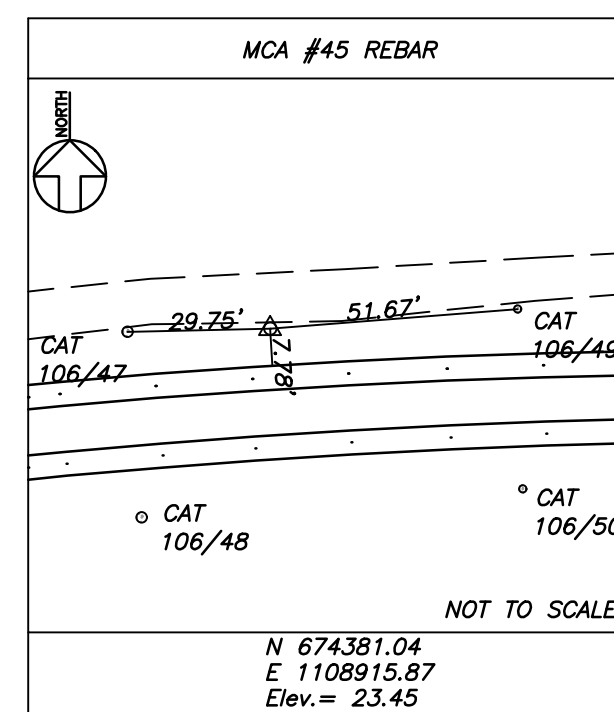
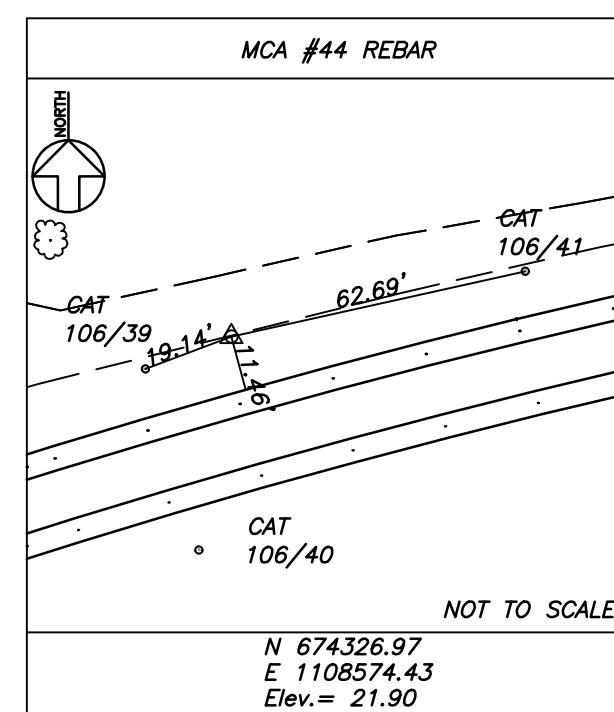
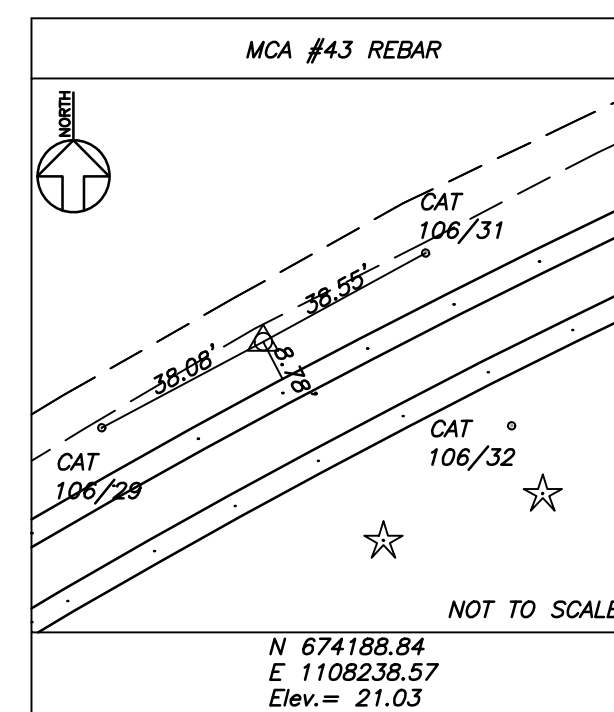
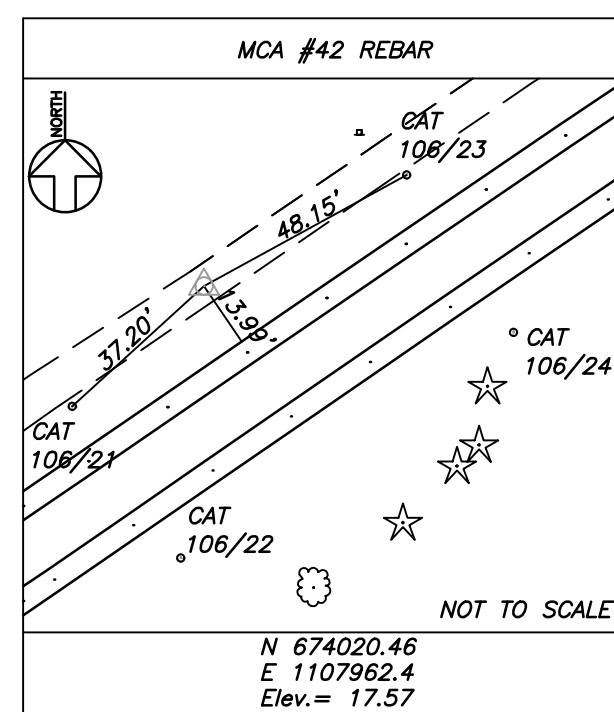
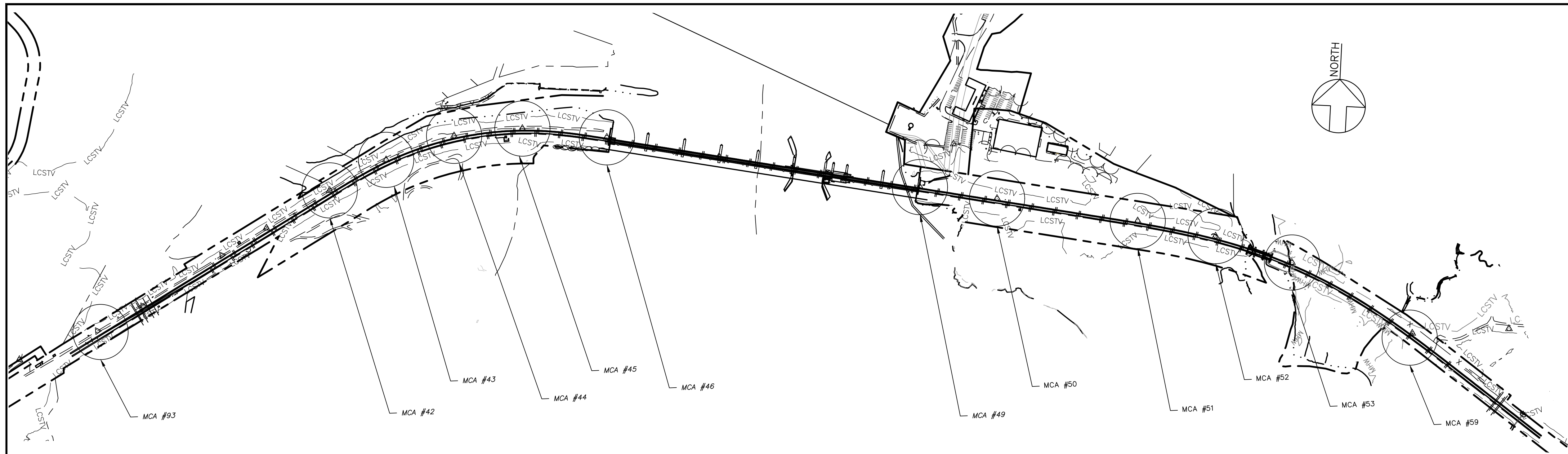
Sheet No. 14 OF 140

EXISTING SITE PLAN

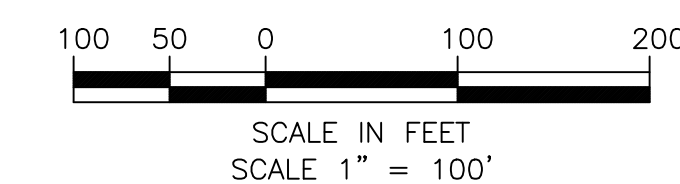
Designed: JBR Drawn: JBR Checked: ARM Date: 02/2019

Dwg. No. **EX-11**

FILE NAME: PLS SEE: STANDARD PEN TABLE:



HORIZONTAL DATUM: NAD 1983
VERTICAL DATUM: NAVD 1988



ENVIRONMENTAL PERMIT PLANS
PLAN DATE: MAY 2, 2023

No.	Revisions	Date	By
1	ADDED R.O.W. LINES & SUBSURFACE UTILITY DATA	1-9-2020	EJN
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OLD SAYBROOK CONNECTICUT

**REPLACEMENT OF MB 106.89
OVER CONNECTICUT RIVER**

EXISTING SITE PLAN

Project Code: XXX XXX
WBS:
Sheet No. 15 OF 140

Designed: Drawn: JBR Checked: ARM Date: 02/2019

EX-12

MAP REFERENCES:

- 1) "EASEMENT MAP SHOWING ACCESS EASEMENTS ACROSS THE PROPERTIES OF MORTON H. SILBERSTEIN AND COURVILLE DEVELOPMENT, LLC BOSTON POST ROAD OLD SAYBROOK CONNECTICUT", SCALE: 1"=100', BY ANGUS McDONALD/GARY SHARPE & ASSOCIATES, INC., TOWN OF OLD SAYBROOK MAP # 2423 AND DATED OCT. 13, 1998.
- 2) "SURVEY PLAN SHOWING EASEMENT TO BE CONVEYED TO THE CONNECTICUT WATER COMPANY ON PROPERTY OF MORTON H. SILBERSTEIN, M.D. BOSTON POST ROAD OLD SAYBROOK, CONNECTICUT", SCALE: 1"=100', BY ANGUS McDONALD/GARY SHARPE & ASSOCIATES, INC., TOWN OF OLD SAYBROOK MAP # 1783 AND DATED OCTOBER 17, 1986.
- 3) "REVISED PLAN OF DEVELOPMENT ROAMTREE INDUSTRIAL PARK LAND OF MICHAEL HALLISEY & FRANK HEINEMANN BOSTON POST ROAD OLD SAYBROOK, CONNECTICUT", SCALE: 1"=50', BY ANGUS L. McDONALD & ASSOCIATES, INC., TOWN OF OLD SAYBROOK MAP # 1651, DATED APR. 26, 1976 AND LAST REVISED ON SEPT 1, 1977.
- 4) "MAP OF PROPERTY OF RUSSELL F. MULCAHY, DOUGLAS W. MULCAHY AND JANE E. NIHILL FERRY DISTRICT OLD SAYBROOK, CONN", SCALE: 1"=60', BY MERRITT B. CHALKER, SURVEYOR OLD SAYBROOK, CONN., TOWN OF OLD SAYBROOK MAP # 663, DATED OCT. 7, 1957 AND LAST REVISED ON AUG. 8, 1961.
- 5) "TITLE LAND TO BE ACQUIRED BY THE STATE OF CONNECTICUT FROM PRUDENTIAL PRESS INC. FERRY ROAD OLD LYME, CT.", SCALE: 1"=50', SHEET 1 OF 2 BY ROBERT M. BOWKER SR., TOWN OF OLD LYME MAP # 2133 AND DATED APRIL 23, 1985.
- 6) "LAND IN OLD LYME, CONN TO BE CONVEYED TO JAMES AND LOUISE VIVEIROS", SCALE: 1"=100', TOWN OF OLD LYME MAP # 10 AND DATED MARCH, 1951.
- 7) "RESUBDIVISION PLAN PROPERTY OF DAVID A. EKLUND & MARY W. EKLUND FERRY ROAD & SANDPIPER POINT ROAD OLD LYME, CONNECTICUT" SHEET 3 OF 6, SCALE: 1"=60', BY ANGUS McDONALD GARY SHARPE & ASSOCIATES, INC., TOWN OF OLD LYME MAP # 3727, DATED MARCH 17, 2009 AND LAST REVISED ON 11-4-09.
- 8) "PROPERTY SURVEY PLAN PROPERTY OF ROBERT S. VOLLAND & PATRICIA J. VOLLAND 17 SANDPIPER POINT ROAD OLD LYME, CONNECTICUT" SHEET 1 OF 1, SCALE: 1"=40', BY ANGUS McDONALD GARY SHARPE & ASSOCIATES, INC., TOWN OF OLD LYME MAP # 3906, DATED AUGUST 9, 2012 AND LAST REVISED ON OCTOBER 22, 2012.
- 9) "EASEMENT PROPERTY PLAN" D.E.P. MARINE HEADQUARTERS, OLD LYME, CONNECTICUT, EXHIBIT "A" SHEET 3 OF 4, SCALE: 1"=50', BY ANTHONY HENDRIKS, TOWN OF OLD LYME MAP # 2784.
- 10) "NORTHEND ELECTRIFICATION PROJECT AMTRAK, PROJECT # 013041-04 NEW LONDON TO NEW HAVEN", SCALE: 1"=80', BY MCI TELECOMMUNICATIONS CORPORATION LIGHTWAVE SYSTEMS, DATED 12/22/94.

NOTES:

- 1) THIS SURVEY HAS BEEN PREPARED IN ACCORDANCE WITH SECTIONS 20-300B-1 THRU 20-300B-20 OF THE REGULATIONS OF CONNECTICUT STATE AGENCIES - "MINIMUM STANDARDS FOR SURVEYS AND MAPS IN THE STATE OF CONNECTICUT" AS ENDORSED BY THE CONNECTICUT ASSOCIATION OF LAND SURVEYORS, INC. ON SEPTEMBER 26, 1996. IT IS A TOPOGRAPHIC SURVEY WITH THE AREAS OF CONVENTIONAL SURVEY CONFORMING TO HORIZONTAL ACCURACY CLASS A-2, TOPOGRAPHIC ACCURACY CLASS T-2 AND VERTICAL ACCURACY CLASS V-2. CONVENTIONAL T-2 TOPOGRAPHIC SURVEY WAS PERFORMED FOR SPECIFIED RAIL SHOT LOCATIONS, UTILITY LOCATION AND STRUCTURE LOCATION CROSS SECTION SHOTS WERE TAKEN AT 20 INTERVALS AND DO NOT REPRESENT COMPLETE TOPOGRAPHY. SURVEY OF THE BOTTOM OF THE CONNECTICUT RIVER IS THE RESULT OF A HYDROGRAPHIC MULTIBEAM SURVEY PERFORMED ON JULY 9, 2018 BY OCEAN SURVEYS, INC. PHOTO CONTROL OF CLASS A-2 ACCURACY WAS USED TO PROCESS AERIAL SURVEY DATA ALONG THE RIVER. AREAS PERFORMED BY AERIAL SURVEY FORMAT CONFORM TO TOPOGRAPHIC ACCURACY CLASS T-3.
- 2) NORTH ORIENTATION REFERS TO CONNECTICUT GRID SYSTEM NAD 83.
- 3) ELEVATIONS ARE BASED ON NAVD 88.
- 4) THESE TIES WERE DEVELOPED FROM THE BASE CAD DRAWING AND ARE NOT FIELD GENERATED TIES. THE DISTANCES DEPICTED HEREON ARE BASED UPON THE DISTANCE FROM THE INDIVIDUAL CONTROL POINT(S) TO THE CENTER OF THE TIE OBJECT AS MEASURED FROM THE CAD DRAWING ONLY.
- 5) THE TIES DEPICTED HEREON ARE ACTING AS A REFERENCE IN THE RECOVERY OF THE CONTROL POINTS ONLY. THEY ARE NOT INTENDED AS A MEANS TO REPLACE OR RESET ANY OF THE CONTROL POINTS.
- 6) SUBMARINE CABLES SHOWN HEREON ARE BASED ON AVAILABLE MAPPING AND FIELD OBSERVATION. LOCATION OF CABLES AS DEPICTED ARE APPROXIMATE. NO FIELD EVIDENCE FOUND BY BSI ENGINEERING INC.
- 7) ACCESS TO AND FROM SHORE ROAD CURRENTLY IN USE. NO RIGHTS OR TRANSFER FOUND ON LAND RECORDS. LOCATION DEPICTED BY AERIAL IMAGERY.
- 8) ALL UTILITIES DEPICTED AT "QUALITY LEVEL C" UNLESS LABELED "QLB" OR "QLD".
- 9) REGULATORY LINES: C.J.L, MLW, MHW AND FEMA 100-YEAR ARE SHOWN BASED ON THE NOAA GAUGE BENCHMARK INTERPOLATION AND FIELD VERIFICATION. ELEVATIONS SHOWN IN TABLE ARE APPROXIMATE AND CONTAINS AN ACCURACY OF 0.10' ± BASED ON RELATION WITH THE USGS AND NOAA GAGE BENCHMARKS INTERPOLATION AND FIELD VERIFICATION.
- 10) BASED ON FIELD MEASUREMENT, THE CULVERT PIPE UNDER THE RAILBED APPEARS TO BE 54" ON THE NORTH SIDE OF THE BANK. DUE TO PIPE EROSION AND POTENTIAL COMPRESSION OF PIPE, ACTUAL PIPE DIAMETER IS DIFFICULT TO CONFIRM. THE PIPE ON THE SOUTH END OF THE CULVERT IS INTACT AND MEASURABLE.

TIDAL DATUM	NOAA (NAVD88) (ft)
CJL	2.90
MLW	-1.71
MHW	1.60
HTL	3.04
LCSTV	4.10

SUBSURFACE UTILITY ENGINEERING NOTES:

- 1) THIS PLAN WAS PREPARED IN CONFORMANCE WITH THE AMERICAN SOCIETY OF CIVIL ENGINEERS STANDARD C/ASCE 38-02 "STANDARD GUIDELINE FOR THE COLLECTION AND DEPICTION OF EXISTING SUBSURFACE UTILITY DATA".
- 2) CERTAIN UTILITIES SHOWN HAVE BEEN TRACED ON THE GROUND USING ELECTRONIC DESIGNATION TECHNIQUES. DESIGNATION, OR ELECTRONIC UTILITY LOCATION, IS DEFINED AS THE SURFACE LOCATION OF A UTILITY LINE BASED ON ELECTRONIC GEOPHYSICAL PROSPECTING TECHNIQUES AND IS APPROXIMATE IN RELATION TO THE ACTUAL LOCATION OF THE POSSIBLE UTILITY.
- 3) CERTAIN UTILITIES SHOWN HAVE BEEN TAKEN FROM AVAILABLE RECORD INFORMATION. THESE UTILITIES MAY NOT HAVE BEEN VERIFIED. (SEE NOTE #4 BELOW.)
- 4) ALL EXISTING DESIGNATED UTILITIES NEAR PROPOSED CONSTRUCTION SHOULD BE EXACTLY LOCATED USING NON-DESTRUCTIVE AIR-VACUUM EXCAVATION, IF NOT ALREADY LOCATED BY AIR-VACUUM EXCAVATION (SEE QUALITY LEVEL A ABOVE).
- 5) UNLESS NON-DESTRUCTIVE AIR-VACUUM EXCAVATION IS UTILIZED AT A PARTICULAR LOCATION, MCA AND BSIE DO NOT GUARANTEE THE EXISTENCE OR NON-EXISTANCE OF UTILITY LINES.
- 6) AT LOCATIONS, WHERE BSIE IS DIRECTED TO PERFORM NON-DESTRUCTIVE AIR-VACUUM EXCAVATION, THE TEST HOLE IS ADVANCED UNTIL A CONDITION OF PRACTICAL REFUSAL FOR AIR-VACUUM EXCAVATION IS REACHED OR HOLE IS ADVANCED TO A DEPTH OF 8.0' (EIGHT FEET). PRACTICAL REFUSAL BEING DEFINED AS ENCOUNTERING A UTILITY, BEDROCK, WATER TABLE, LARGE ROCKS/ COBBLES, SUSPECTED HAZARDOUS MATERIALS OR A CONDITION OF HOLE INSTABILITY.
- 7) WHERE BSIE IS DIRECTED TO PERFORM NON-DESTRUCTIVE AIR-VACUUM EXCAVATION TO CONFIRM THE NON-EXISTANCE OF UTILITIES, BSIE WILL ONLY REPORT NON-EXISTANCE OF UTILITIES WITHIN THE VISIBLE LIMITS OF THE EXCAVATION. BSIE IS NOT RESPONSIBLE FOR ENSURING THAT WORK BY OTHERS IS PERFORMED AT THE SAME LOCATION AS THE AIR-VACUUM EXCAVATION HOLE.
- 8) BELOW GROUND STRUCTURES UNLESS OTHERWISE DEPICTED ARE SYMBOLIC ONLY.
- 9) PRIOR TO ANY EXCAVATING, BSIE RECOMMENDS THAT ALL UTILITY OWNERS SHOULD REVIEW THIS DRAWING FOR ACCURACY AND COMPLETENESS.

UTILITY QUALITY LEVEL INFORMATION INDEX (SEE ASCE/C1 38-02):

QUALITY LEVEL D: "QL D". UTILITY INFORMATION PLOTTED ON THE DRAWING BASED SOLELY ON RECORD INFORMATION, INDIVIDUAL RECOLLECTIONS OR THE EXISTENCE OF UTILITY SERVICE. IT SHALL BE NOTED THAT ALL INFORMATION SHOWN (OTHER THAN AT TEST HOLE LOCATIONS, SEE QL A BELOW), INCLUDING BUT NOT LIMITED TO A UTILITIES SIZE, CAPACITY, MATERIAL COMPOSITION, CONDITION OR SERVICE STATUS SHALL BE CONSIDERED QL D EVEN THOUGH THE UTILITY MAY BE PLOTTED AND LABELED AS QL C OR QL B.

QUALITY LEVEL C: "QL C". UTILITY INFORMATION OBTAINED AND CATEGORIZED AS QL D, PLOTTED TO CORRELATE WITH SURFACE UTILITY FEATURES WHICH HAVE BEEN FIELD VERIFIED, SURVEY LOCATED AND ACCURATELY TRANPOSED ONTO THE DESIGN/CONSTRUCTION DOCUMENTS. INCLUDED IN THIS CATEGORY AERIAL UTILITY INFORMATION AND UTILITY DEPICTION'S, WHICH IN THE PROFESSIONAL OPINION OF THE SUBSURFACE UTILITY ENGINEER, REPRESENT THE MOST PROBABLE APPROXIMATE HORIZONTAL LOCATION, TYPE AND/OR EXISTENCE OF A UTILITY.

QUALITY LEVEL B: "QL B". UTILITY INFORMATION DERIVED BY ESTABLISHING THE APPROXIMATE SURFACE HORIZONTAL LOCATION OF A UTILITY USING ELECTRONIC METHODS. SAID INFORMATION IS SUBSEQUENTLY FIELD SURVEY LOCATED AND ACCURATELY REDUCED ONTO THE DESIGN/CONSTRUCTION DOCUMENTS.

QUALITY LEVEL A: "QL A". UTILITY INFORMATION WHICH HAS BEEN VISUALLY VERIFIED, SURVEY LOCATED (BOTH HORIZONTALLY AND VERTICALLY) AND ACCURATELY REDUCED ONTO THE DESIGN/CONSTRUCTION DOCUMENTS. THIS IS TYPICALLY SHOWN AS TEST HOLE OR OTHER DIMENSIONED INFORMATION.

ENVIRONMENTAL PERMIT PLANS
PLAN DATE: MAY 2, 2023

No.	Revisions	Date	By
1	ADDED R.O.W. LINES & SUBSURFACE UTILITY DATA	1-9-2020	EJN
2	ADDED EVERSOURCE TRANSFORMER OFF R.O.W.	3-15-2021	UPB
3	ADDED MAINTENANCE METAL BOARDWALK	5-11-2021	FV
4	17 SHORE MITIGATION SITE TOPOGRAPHIC UPDATE	10-1-2022	JMW
5	3/4 AMTRAK PARCEL MITIGATION SITE TOPO UPDATE	10-1-2022	JMW
6	DEEP HQ TOPOGRAPHIC UPDATE	10-11-2022	JMW
7	AMTRAK PARCEL, CULVERT AND SHORE ROAD UPDATE	4-07-2023	JT



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Office of Chief Engineer
STRUCTURES

National Railroad Passenger Corporation
30th Street Station, Philadelphia, Pennsylvania 19104

Approved	Date

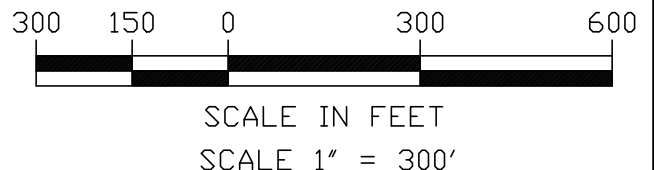
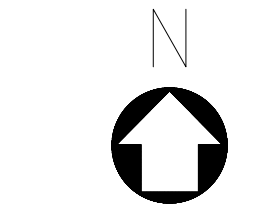
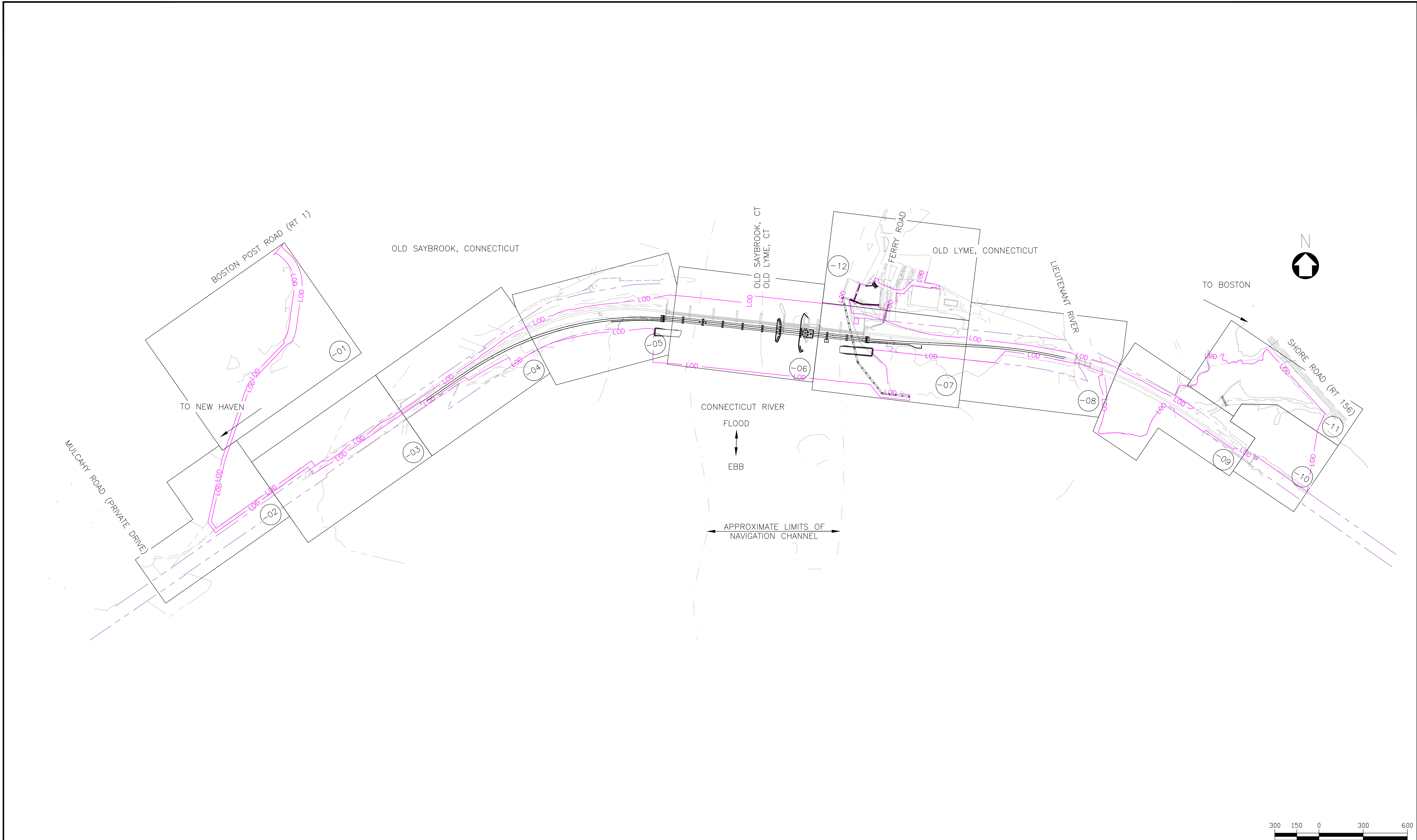
PERMIT PLANS

HARDESTY & HANOVER, LLC
ENGINEERING
1501 Broadway New York, NY 10036

MCA Martinez Couch & Associates
1084 Cromwell Avenue, Suite A-2
Rocky Hill, CT 06867
Telephone: (860) 436-4364
Fax: (860) 436-4426
www.martinezcouch.com

OLD SAYBROOK		CONNECTICUT		Project Code: XXX XXX
REPLACEMENT OF MB 106.89 OVER CONNECTICUT RIVER				WBS:
				Sheet No. 16 OF 140
EXISTING SITE PLAN				Dwg. No. EX-13
Designed	Drawn JBR	Checked ARM	Date 02/2019	

FILE NAME:
PLT SCALE:
STANDARD PEN TABLE:



ENVIRONMENTAL PERMIT PLANS
 PLAN DATE: MAY 2, 2023

No.	Revisions	Date	By



Office of Chief Engineer
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Approved	Date



HARDESTY & HANOVER, LLC
 ENGINEERING
 1501 Broadway New York, NY 10036
WSP 1700 Market St. Suite 1050
 Philadelphia, PA 19103

OLD SAYBROOK CONNECTICUT
**REPLACEMENT OF MB 106.89
 OVER CONNECTICUT RIVER**
KEY PLAN
 Designed KM Drawn CB Checked KF Date 5/2/2023

Project Code: XXX XXX
 WBS:
 Sheet No. 17 OF 140
 Dwg. No. **KEY-01**

FILE NAME: 212004_P1-100.DWG
 PRINT DATE/TIME: 5/2/2023 3:09 PM
 PLOT SCALE: AS NOTED
 STANDARD PEN TABLE: YES

TO NEW HAVEN

TO BOSTON

LEGEND:

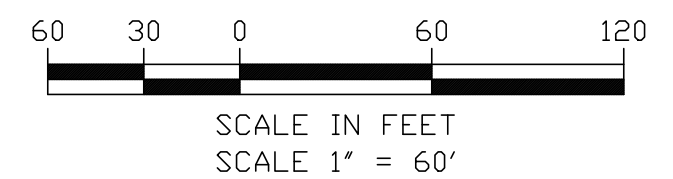
- FEMA 100 — FEMA 100 — FEMA 100 YEAR FLOOD LINE — ELEVATION VARIES
- LCSTV — LCSTV — LAND CAPABLE OF SUPPORTING TIDAL VEGETATION (LCSTV) — ELEVATION 4.1'
- CJL — CJL — COASTAL JURISDICTION LINE (CJL) — ELEVATION 2.9'
- HTL — HTL — HIGH TIDE LINE (HTL) — ELEVATION 3.04'
- MHW — MHW — MEAN HIGH WATER (MHW) — ELEVATION 1.60'
- MLW — MLW — MEAN LOW WATER (MLW) — ELEVATION -1.71'
- FIELD LOCATED WETLAND BOUNDARY
- LOD — LOD — LIMITS OF PROJECT DISTURBANCE
- — — — — AMTRAK RIGHT OF WAY (ROW)

NOTES:

1. TEMPORARY AND PERMANENT ENCROACHMENT INTO REGULATED WETLANDS SHALL BE IN CONFORMANCE WITH WETLANDS PERMITS ISSUED FOR THE PROJECT. LIMITS OF TEMPORARY ENCROACHMENT SHALL BE DELINEATED WITH STAKES AND FLAGGING.

MATCHLINE DWG SITE-02

ANY STAGING AREAS AND PATHS TO BE RETURNED TO EXISTING CONDITION AT COMPLETION OF USE



FILE NAME: 217004-SITE-01-02.DWG
PRINT DATE: 7/18/2023 8:44 AM
PLOT SCALE: AS NOTED
STANDARD PEN TABLE: YES

No.	Revisions	Date	By

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Approved	Date



ENVIRONMENTAL PERMIT PLANS
PLAN DATE: MAY 2, 2023

HARDESTY & HANOVER, LLC
ENGINEERING
1501 Broadway New York, NY 10036
1700 Market St. Suite 1050
Philadelphia, PA 19103

OLD SAYBROOK CONNECTICUT

**REPLACEMENT OF MB 106.89
OVER CONNECTICUT RIVER**

SITE PLAN

Designed	CB	Drawn	CB/MD	Checked	KM	Date	5/2/2023
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Project Code:	XXX XXX
WBS:	
Sheet No.	18 OF 140
Dwg. No.	SITE-01

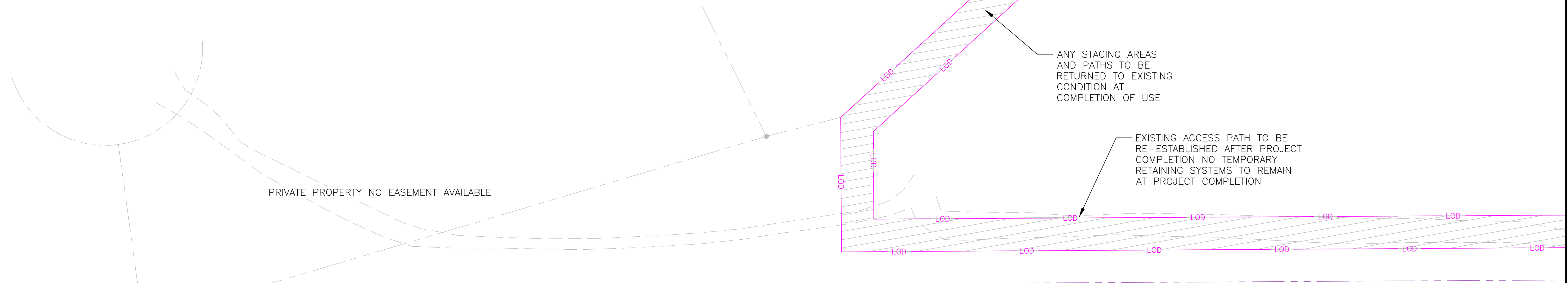
TO NEW HAVEN

TO BOSTON

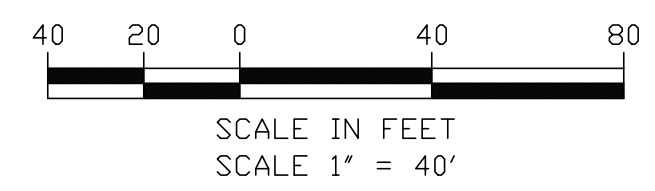
MATCHLINE DWG SITE-01

LEGEND:

- FEMA 100 — FEMA 100 — FEMA 100 YEAR FLOOD LINE — ELEVATION VARIES
- LCSTV — LCSTV — LAND CAPABLE OF SUPPORTING TIDAL VEGETATION (LCSTV) — ELEVATION 4.1'
- CJL — CJL — COASTAL JURISDICTION LINE (CJL) — ELEVATION 2.9'
- HTL — HTL — HIGH TIDE LINE (HTL) — ELEVATION 3.04'
- MHW — MHW — MEAN HIGH WATER (MHW) — ELEVATION 1.60'
- MLW — MLW — MEAN LOW WATER (MLW) — ELEVATION -1.71'
- FIELD LOCATED WETLAND BOUNDARY
- LOD — LOD — LIMITS OF PROJECT DISTURBANCE
- AMTRAK RIGHT OF WAY (ROW)



EX T1 105+8697	EX T1 105+8700	EX T1 105+8748	EX T1 105+8800	EX T1 105+8900	EX T1 105+9000	EX T1 105+9100	EX T1 105+9200	EX T1 105+9300	EX T1
			EX T2 105+8800	EX T2 105+8900	EX T2 105+9000	EX T2 105+9100	EX T2 105+9200	EX T2 105+9300	EX T2



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PRINT DATE: 7/18/2023 8:44 AM
PLOT SCALE: AS NOTED
STANDARD PEN TABLE: YES

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STRUCTURES
National Railroad Passenger Corporation
30th Street Station, Philadelphia, Pennsylvania 19104

Approved	Date



ENVIRONMENTAL PERMIT PLANS
PLAN DATE: MAY 2, 2023

HARDESTY & HANOVER, LLC
ENGINEERING
1501 Broadway New York, NY 10036
1700 Market St. Suite 1050
Philadelphia, PA 19103

OLD SAYBROOK CONNECTICUT

**REPLACEMENT OF MB 106.89
OVER CONNECTICUT RIVER**

SITE PLAN

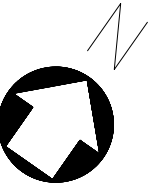
Designed	CB	Drawn	CB/MD	Checked	KM	Date	5/2/2023
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Project Code:	XXX XXX
WBS:	
Sheet No.	19 OF 140
Dwg. No.	SITE-02

MATCHLINE DWG SITE-03

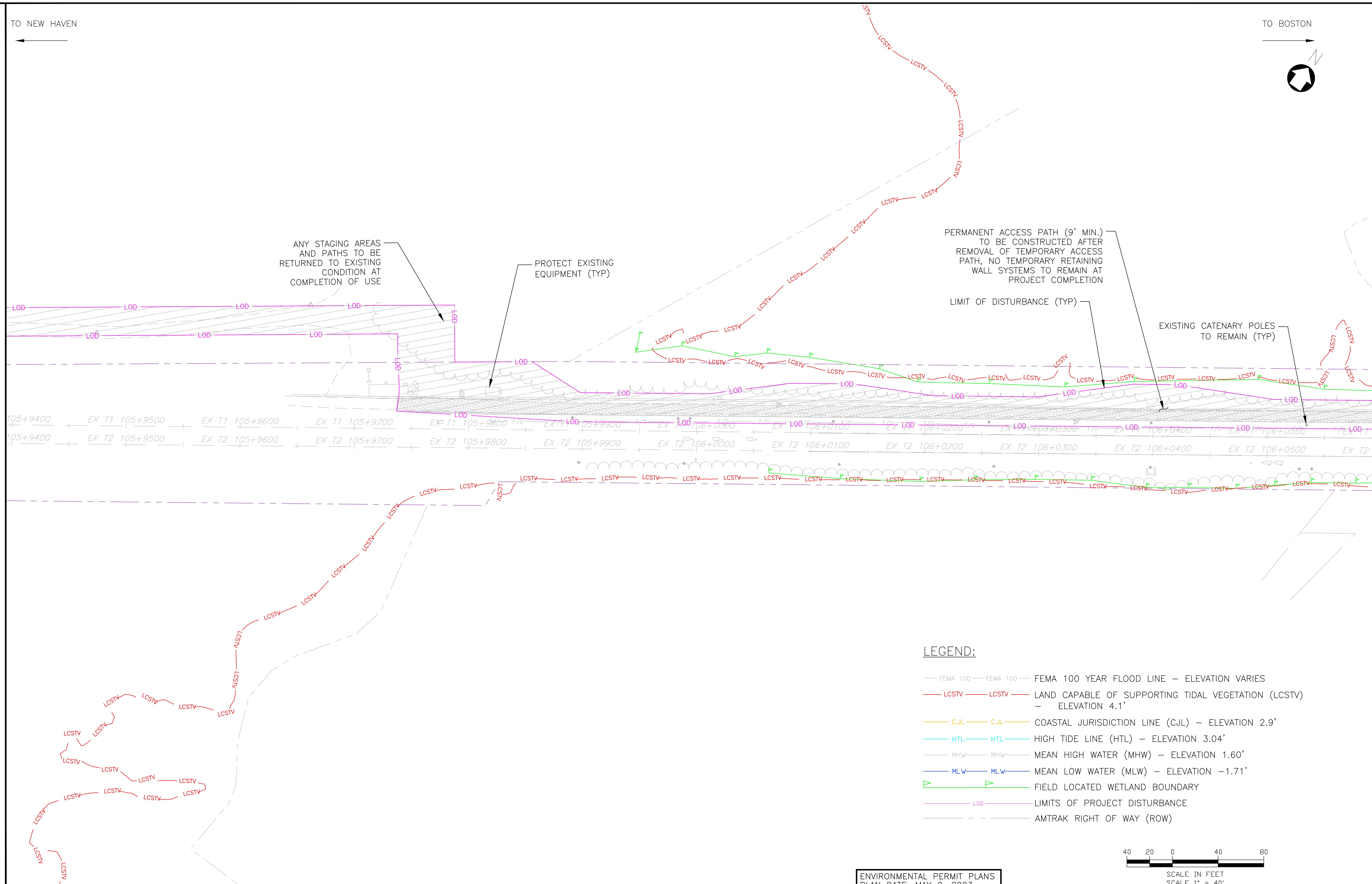
TO NEW HAVEN

TO BOSTON



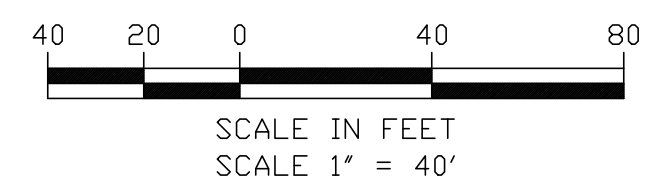
MATCHLINE SITE-02

MATCHLINE DWG SITE-04



LEGEND:

- FEMA 100 — FEMA 100 — FEMA 100 YEAR FLOOD LINE — ELEVATION VARIES
- LCSTV — LCSTV — LAND CAPABLE OF SUPPORTING TIDAL VEGETATION (LCSTV) — ELEVATION 4.1'
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- HTL — HTL — HIGH TIDE LINE (HTL) — ELEVATION 3.04'
- MHW — MHW — MEAN HIGH WATER (MHW) — ELEVATION 1.60'
- MLW — MLW — MEAN LOW WATER (MLW) — ELEVATION -1.71'
- > —> — FIELD LOCATED WETLAND BOUNDARY
- LOB — LIMITS OF PROJECT DISTURBANCE
- — — AMTRAK RIGHT OF WAY (ROW)



ENVIRONMENTAL PERMIT PLANS
PLAN DATE: MAY 2, 2023

FILE NAME: 212004_SITE-01 - 02.DWG
PRINT DATE: 7/16/2023 8:44 AM
PLOT SCALE: AS NOTED
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National Railroad Passenger Corporation
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Approved	Date



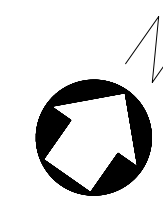
HARDESTY & HANOVER, LLC
ENGINEERING
1501 Broadway New York, NY 10036
wsp 1700 Market St. Suite 1050
Philadelphia, PA 19103

OLD SAYBROOK CONNECTICUT
**REPLACEMENT OF MB 106.89
OVER CONNECTICUT RIVER**
SITE PLAN
Designed CB Drawn CB/MD Checked KM Date 5/2/2023

Project Code: XXX XXX
WBS:
Sheet No. 20 OF 140
Dwg. No. **SITE-03**

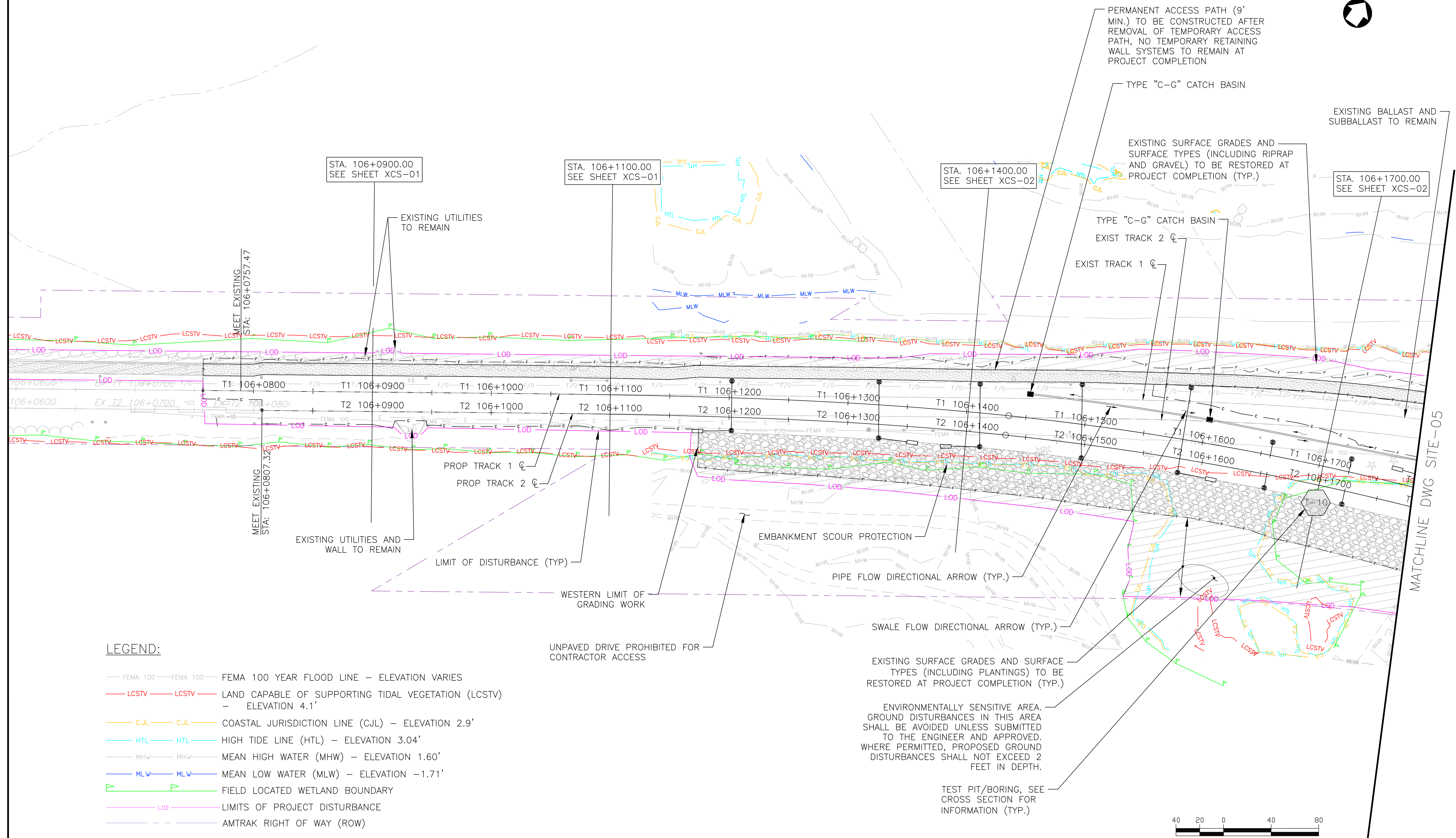
TO NEW HAVEN

TO BOSTON



MATCHLINE DWG SITE-03

MATCHLINE DWG SITE-05



LEGEND:

- FEMA 100 — FEMA 100 — FEMA 100 YEAR FLOOD LINE — ELEVATION VARIES
- LCSTV — LCSTV — LAND CAPABLE OF SUPPORTING TIDAL VEGETATION (LCSTV) — ELEVATION 4.1'
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- — — FIELD LOCATED WETLAND BOUNDARY
- LOD — — LIMITS OF PROJECT DISTURBANCE
- — — AMTRAK RIGHT OF WAY (ROW)

PERMANENT ACCESS PATH (9' MIN.) TO BE CONSTRUCTED AFTER REMOVAL OF TEMPORARY ACCESS PATH, NO TEMPORARY RETAINING WALL SYSTEMS TO REMAIN AT PROJECT COMPLETION

TYPE "C-G" CATCH BASIN

EXISTING BALLAST AND SUBBALLAST TO REMAIN

EXISTING SURFACE GRADES AND SURFACE TYPES (INCLUDING RIPRAP AND GRAVEL) TO BE RESTORED AT PROJECT COMPLETION (TYP.)

STA. 106+1700.00 SEE SHEET XCS-02

TYPE "C-G" CATCH BASIN

EXIST TRACK 2

EXIST TRACK 1

STA. 106+0900.00 SEE SHEET XCS-01

STA. 106+1100.00 SEE SHEET XCS-01

STA. 106+1400.00 SEE SHEET XCS-02

MEET EXISTING STA: 106+0757.47

MEET EXISTING STA: 106+0807.33

EXISTING UTILITIES TO REMAIN

EXISTING UTILITIES AND WALL TO REMAIN

LIMIT OF DISTURBANCE (TYP.)

WESTERN LIMIT OF GRADING WORK

UNPAVED DRIVE PROHIBITED FOR CONTRACTOR ACCESS

EMBANKMENT SCOUR PROTECTION

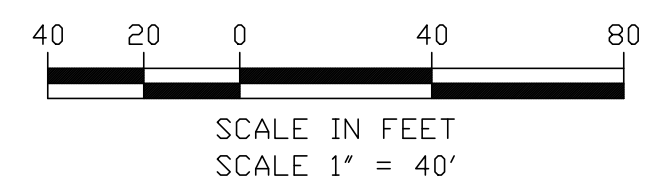
PIPE FLOW DIRECTIONAL ARROW (TYP.)

SWALE FLOW DIRECTIONAL ARROW (TYP.)

EXISTING SURFACE GRADES AND SURFACE TYPES (INCLUDING PLANTINGS) TO BE RESTORED AT PROJECT COMPLETION (TYP.)

ENVIRONMENTALLY SENSITIVE AREA. GROUND DISTURBANCES IN THIS AREA SHALL BE AVOIDED UNLESS SUBMITTED TO THE ENGINEER AND APPROVED. WHERE PERMITTED, PROPOSED GROUND DISTURBANCES SHALL NOT EXCEED 2 FEET IN DEPTH.

TEST PIT/BORING, SEE CROSS SECTION FOR INFORMATION (TYP.)



ENVIRONMENTAL PERMIT PLANS
PLAN DATE: MAY 2, 2023

FILE NAME: 212004-SITE-01-02.DWG
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No.	Revisions	Date	By

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National Railroad Passenger Corporation
30th Street Station, Philadelphia, Pennsylvania 19104

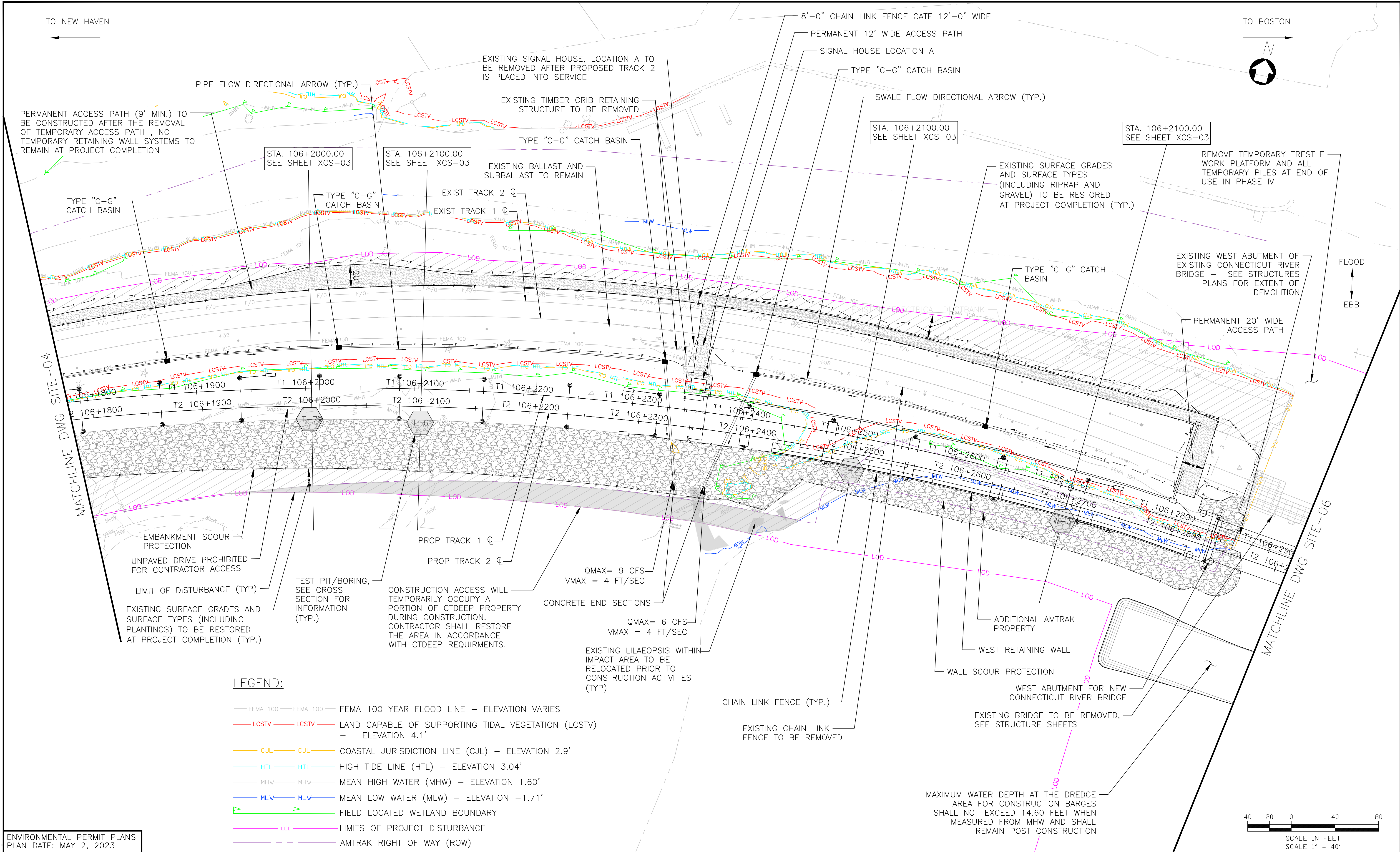
Approved	Date



HARDESTY & HANOVER, LLC
ENGINEERING
1501 Broadway New York, NY 10036
1700 Market St. Suite 1050
Philadelphia, PA 19103

OLD SAYBROOK CONNECTICUT
**REPLACEMENT OF MB 106.89
OVER CONNECTICUT RIVER**
SITE PLAN
Designed CB Drawn CB/MD Checked KM Date 5/2/2023

Project Code: XXX XXX
WBS:
Sheet No. 21 OF 140
Dwg. No. **SITE-04**



LEGEND:

- FEMA 100 — FEMA 100 — FEMA 100 YEAR FLOOD LINE — ELEVATION VARIES
- LCSTV — LCSTV — LAND CAPABLE OF SUPPORTING TIDAL VEGETATION (LCSTV) — ELEVATION 4.1'
- CJL — CJL — COASTAL JURISDICTION LINE (CJL) — ELEVATION 2.9'
- HTL — HTL — HIGH TIDE LINE (HTL) — ELEVATION 3.04'
- MHW — MHW — MEAN HIGH WATER (MHW) — ELEVATION 1.60'
- MLW — MLW — MEAN LOW WATER (MLW) — ELEVATION -1.71'
- FIELD LOCATED WETLAND BOUNDARY
- LOD — LOD — LIMITS OF PROJECT DISTURBANCE
- AMTRAK RIGHT OF WAY (ROW)

ENVIRONMENTAL PERMIT PLANS
 PLAN DATE: MAY 2, 2023

No.	Revisions	Date	By



**Office of Chief Engineer
 STRUCTURES**
 National Railroad Passenger Corporation
 30th Street Station, Philadelphia, Pennsylvania 19104

Approved	Date



HARDESTY & HANOVER, LLC
 ENGINEERING
 1501 Broadway New York, NY 10036
 1700 Market St. Suite 1050
 Philadelphia, PA 19103

Project Code: XXX XXX
WBS:
Sheet No. 22 OF 140
SITE PLAN
Designed CB Drawn CB/MD Checked KM Date 5/2/2023

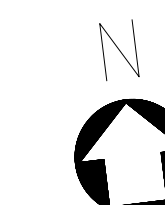
SITE-05

FILE NAME: 212004-SITE-01-12.DWG
 PRINT DATE/TIME: 6/21/2023 8:44 AM
 PLOT SCALE: AS NOTED
 STANDARD PEN TABLE: YES

TO NEW HAVEN

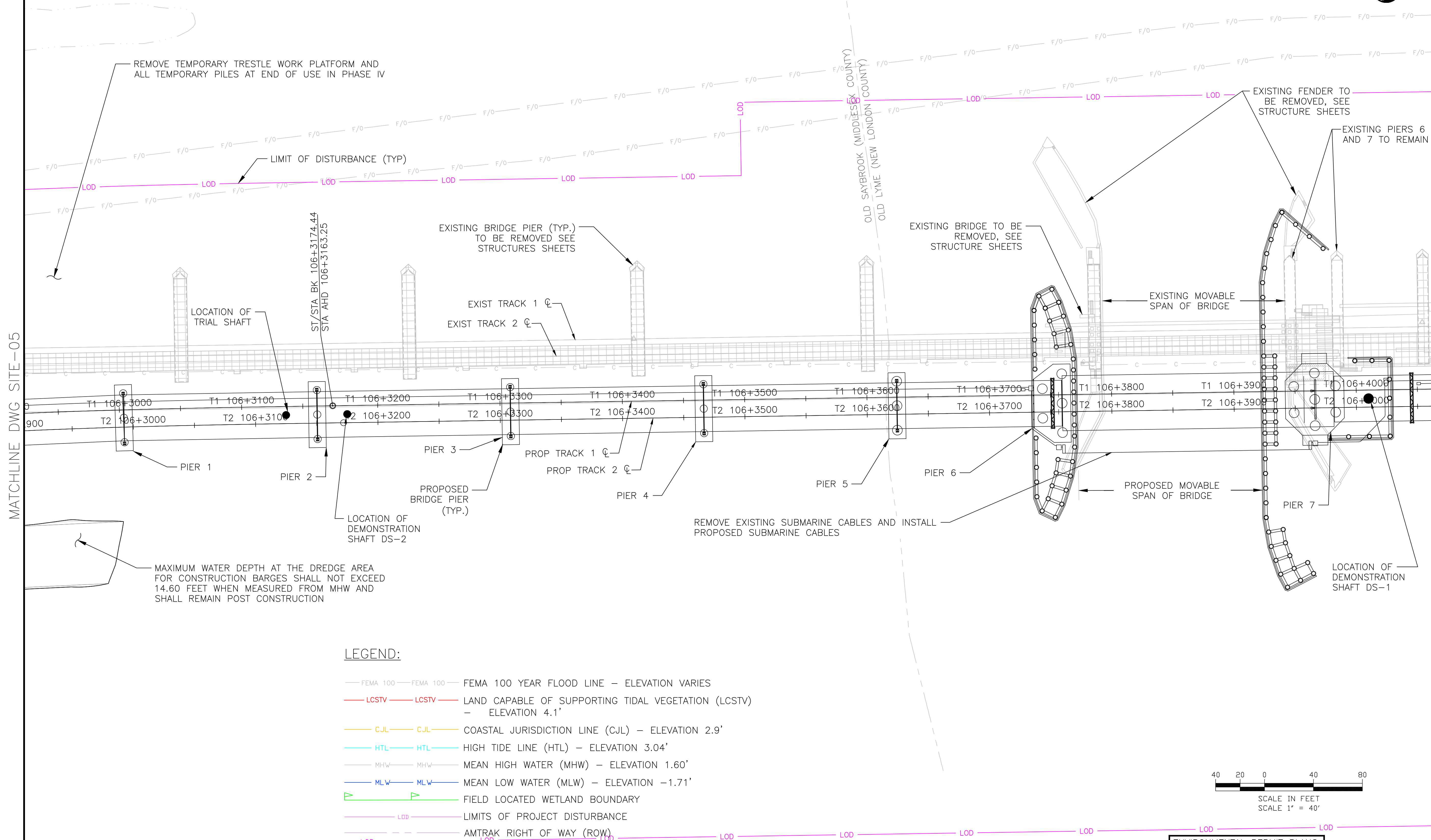
TO BOSTON

FLOOD
EBB



MATCHLINE DWG SITE-05

MATCHLINE DWG SITE-07



REMOVE TEMPORARY TRESTLE WORK PLATFORM AND ALL TEMPORARY PILES AT END OF USE IN PHASE IV

LIMIT OF DISTURBANCE (TYP)

LOCATION OF TRIAL SHAFT

ST/STA BK 106+3174.44
STA AHD 106+3163.25

EXISTING BRIDGE PIER (TYP.)
TO BE REMOVED SEE
STRUCTURES SHEETS

EXIST TRACK 1
EXIST TRACK 2

EXISTING BRIDGE TO BE
REMOVED, SEE
STRUCTURE SHEETS

EXISTING FENDER TO
BE REMOVED, SEE
STRUCTURE SHEETS

EXISTING PIERS 6
AND 7 TO REMAIN

EXISTING MOVABLE
SPAN OF BRIDGE

PIER 1

PIER 2

PIER 3

PROP TRACK 1

PROP TRACK 2

PIER 4

PIER 5

PIER 6

PROPOSED MOVABLE
SPAN OF BRIDGE

PIER 7

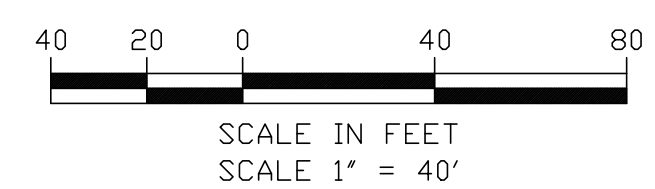
LOCATION OF
DEMONSTRATION
SHAFT DS-1

MAXIMUM WATER DEPTH AT THE DREDGE AREA
FOR CONSTRUCTION BARGES SHALL NOT EXCEED
14.60 FEET WHEN MEASURED FROM MHW AND
SHALL REMAIN POST CONSTRUCTION

REMOVE EXISTING SUBMARINE CABLES AND INSTALL
PROPOSED SUBMARINE CABLES

LEGEND:

- FEMA 100 — FEMA 100 — FEMA 100 YEAR FLOOD LINE — ELEVATION VARIES
- LCSTV — LCSTV — LAND CAPABLE OF SUPPORTING TIDAL VEGETATION (LCSTV) — ELEVATION 4.1'
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- HTL — HTL — HIGH TIDE LINE (HTL) — ELEVATION 3.04'
- MHW — MHW — MEAN HIGH WATER (MHW) — ELEVATION 1.60'
- MLW — MLW — MEAN LOW WATER (MLW) — ELEVATION -1.71'
- FIELD LOCATED WETLAND BOUNDARY
- LOD — LIMITS OF PROJECT DISTURBANCE
- AMTRAK RIGHT OF WAY (ROW)



ENVIRONMENTAL PERMIT PLANS
PLAN DATE: MAY 2, 2023

FILE NAME: 217004-SITE-01 - 2.DWG
PRINT DATE: 7/16/2023 8:45 AM
PLOT SCALE: AS NOTED
STANDARD PEN TABLE: YES

No.	Revisions	Date	By



Office of Chief Engineer
STRUCTURES
National Railroad Passenger Corporation
30th Street Station, Philadelphia, Pennsylvania 19104

Approved	Date



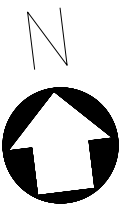
HARDESTY & HANOVER, LLC
ENGINEERING
1501 Broadway New York, NY 10036
1700 Market St. Suite 1050
Philadelphia, PA 19103

OLD SAYBROOK CONNECTICUT
**REPLACEMENT OF MB 106.89
OVER CONNECTICUT RIVER**
SITE PLAN
Designed CB Drawn CB/MD Checked KM Date 5/2/2023

Project Code: XXX XXX
WBS:
Sheet No. 23 OF 140
Dwg. No. **SITE-06**

TO NEW HAVEN

TO BOSTON



CONSTRUCTION ACCESS WILL TEMPORARILY OCCUPY A PORTION OF CTDEEP PROPERTY DURING CONSTRUCTION. CONTRACTOR SHALL RESTORE THE AREA IN ACCORDANCE WITH CTDEEP REQUIREMENTS

REMOVE EXISTING WALKWAY AND REPLACE WITH METAL GRATE MAINTENANCE WAY SEE DETAIL DTL-04

DRY WATER LINE TO WATER FILL PORT IN CT DEEP PARKING LOT

DRY SANITARY LINE TO SANITARY WASTE COLLECTION PORT IN CT DEEP PARKING LOT

REMOVE EXISTING DRY FIRE PIPE

EXISTING STAIRWAY ACCESS FROM FERRY LANDING STATE PARK PARKING LOT TO AMTRAK FACILITIES AND TRACK TO REMAIN OR BE REBUILT IF DISTURBED

MATCHLINE DWG SITE-12

STA. 106+4500.00
SEE SHEET XCS-06

STA. 106+4700.00
SEE SHEET XCS-07

STA. 106+4900.00
SEE SHEET XCS-07

STA. 107+0000.00
SEE SHEET XCS-08

FUEL TANK AND TELECOMS ENCLOSURE
GENERATOR ENCLOSURE

REMOVE TEMPORARY TRESTLE WORK PLATFORM AND ALL TEMPORARY PILES AT END OF USE IN PHASE IV

PROPOSED BOARDWALK FLOOD
REMOVE EXISTING BOARDWALK

EXIST TRACK 1
EXIST TRACK 2

EXISTING BRIDGE PIER TO BE REMOVED, SEE STRUCTURE SHEETS
PIER 8
PIER 9

PROP TRACK 1
PROP TRACK 2

CONTROL HOUSE

EXISTING EAST ABUTMENT OF CONNECTICUT RIVER BRIDGE - SEE STRUCTURES SHEETS FOR EXTENT OF DEMOLITION

MAXIMUM WATER DEPTH AT THE DREDGE AREA FOR CONSTRUCTION BARGES SHALL NOT EXCEED 14.60 FEET WHEN MEASURED FROM MHW AND SHALL REMAIN POST CONSTRUCTION

EAST ABUTMENT FOR NEW CONNECTICUT RIVER BRIDGE, SEE STRUCTURES SHEETS

AREA RESERVED FOR AMTRAK LDS HUT

EXISTING SURFACE GRADES AND SURFACE TYPES (INCLUDING RIPRAP AND GRAVEL) TO BE RESTORED AT PROJECT COMPLETION (TYP.)

TEMPORARY ACCESS PATH TO BE REMOVED, NO TEMPORARY RETAINING WALL SYSTEMS TO REMAIN AT PROJECT COMPLETION

EXISTING CATENARY POLES TO BE REMOVED

EXISTING BALLAST AND SUBBALLAST TO REMAIN

8'-0" CHAIN LINK FENCE (TYP.)

T1 106+4800
T2 106+4800

T1 106+4900
T2 106+4900

T1 106+5000
T2 106+5000

T1 106+5100
T2 106+5100

T1 106+5200
T2 106+5200

WALL SCOUR PROTECTION
EAST RETAINING WALL

EXISTING SURFACE GRADES AND SURFACE TYPES (INCLUDING PLANTINGS) TO BE RESTORED AT PROJECT COMPLETION (TYP.)

EXISTING CHAIN LINK FENCE TO BE REMOVED
ADDITIONAL AMTRAK PROPERTY

SIGNAL HOUSE, LOCATION B

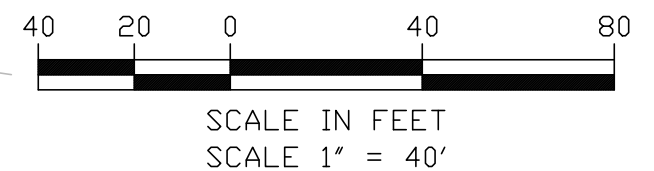
EXISTING SIGNAL HOUSE, LOCATION B TO BE REMOVED AFTER PROPOSED TRACK 2 IS PLACED INTO SERVICE.

SIGNAL CH

LEGEND:

- FEMA 100 — FEMA 100 — FEMA 100 YEAR FLOOD LINE — ELEVATION VARIES
- LCSTV — LCSTV — LAND CAPABLE OF SUPPORTING TIDAL VEGETATION (LCSTV) — ELEVATION 4.1'
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- MLW — MLW — MEAN LOW WATER (MLW) — ELEVATION -1.71'
- LOD — LOD — FIELD LOCATED WETLAND BOUNDARY
- LOD — LOD — LIMITS OF PROJECT DISTURBANCE
- — — AMTRAK RIGHT OF WAY (ROW)

ENVIRONMENTAL PERMIT PLANS
PLAN DATE: MAY 2, 2023



FILE NAME: 217004-SITE-01-12.DWG
PRINT DATE/TIME: 6/27/2023 8:45 AM
PLOT SCALE: AS NOTED
STANDARD PEN TABLE: YES

No.	Revisions	Date	By



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National Railroad Passenger Corporation
30th Street Station, Philadelphia, Pennsylvania 19104

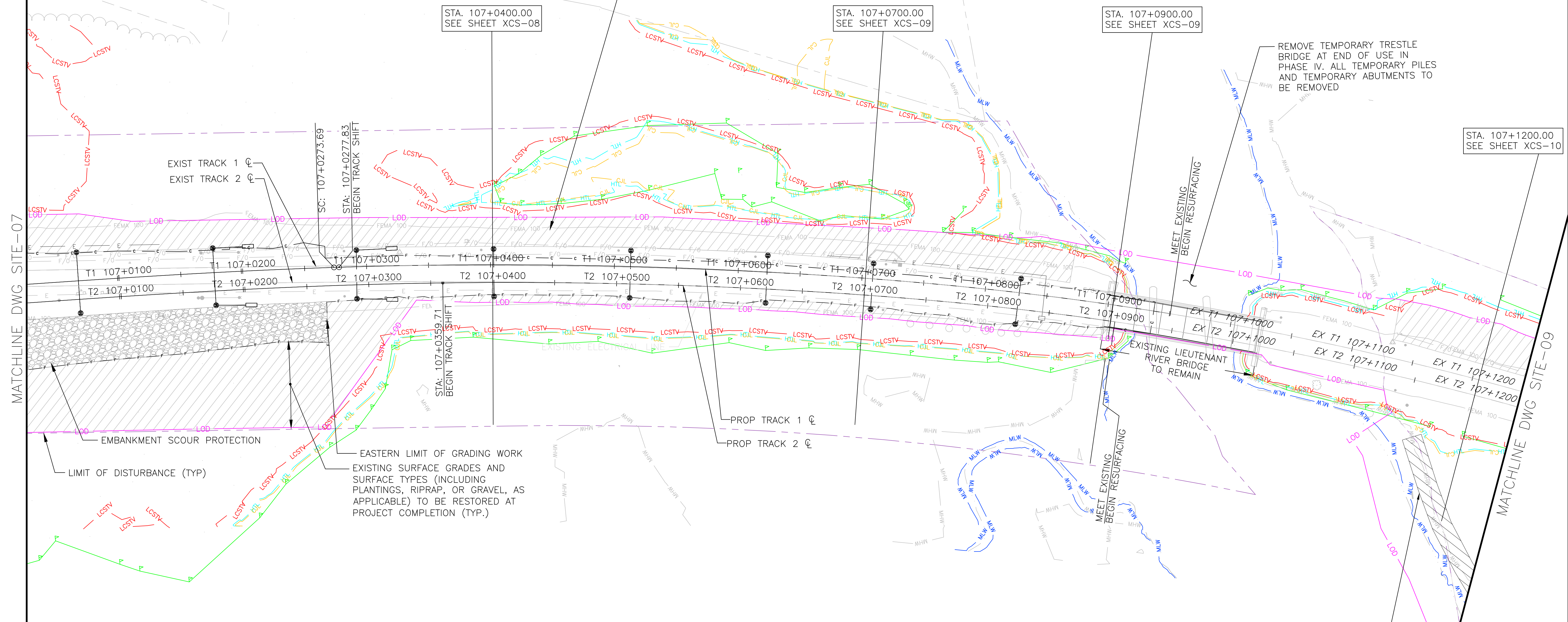
Approved	Date



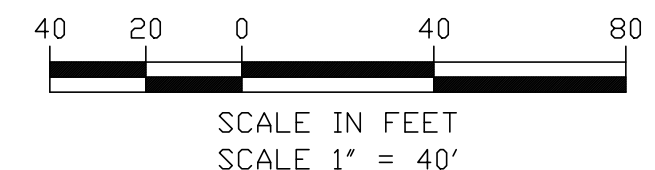
HARDESTY & HANOVER, LLC
ENGINEERING
1501 Broadway New York, NY 10036
wsp 1700 Market St. Suite 1050
Philadelphia, PA 19103

OLD SAYBROOK CONNECTICUT
REPLACEMENT OF MB 106.89
OVER CONNECTICUT RIVER
SITE PLAN
Designed CB Drawn CB/MD Checked KM Date 5/2/2023

Project Code: XXX XXX
WBS:
Sheet No. 24 OF 140
Dwg. No. **SITE-07**



- LEGEND:**
- FEMA 100 — FEMA 100 — FEMA 100 YEAR FLOOD LINE — ELEVATION VARIES
 - LCSTV — LCSTV — LAND CAPABLE OF SUPPORTING TIDAL VEGETATION (LCSTV) — ELEVATION 4.1'
 - CJL — CJL — COASTAL JURISDICTION LINE (CJL) — ELEVATION 2.9'
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 - — — AMTRAK RIGHT OF WAY (ROW)



ENVIRONMENTAL PERMIT PLANS
PLAN DATE: MAY 2, 2023

No.	Revisions	Date	By



Office of Chief Engineer
STRUCTURES
National Railroad Passenger Corporation
30th Street Station, Philadelphia, Pennsylvania 19104

Approved	Date



HARDESTY & HANOVER, LLC
ENGINEERING
1501 Broadway New York, NY 10036
1700 Market St. Suite 1050
Philadelphia, PA 19103

DESIGNED		DRAWN		CHECKED		DATE	
Project Code: XXX XXX WBS: Sheet No. 25 OF 140 Dwg. No. SITE-08							

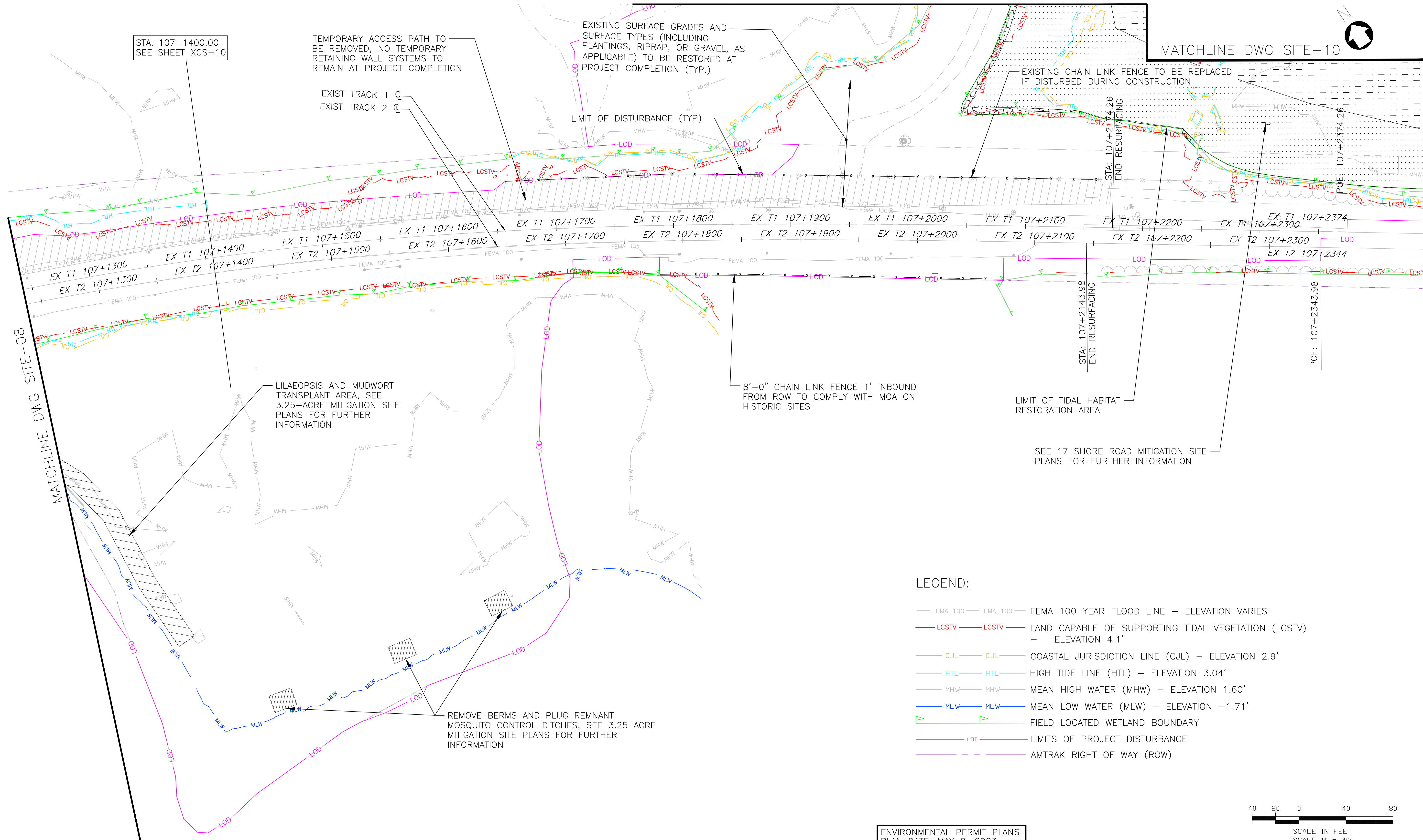
FILE NAME: 212004-SITE-01-12.DWG
 PRINT DATE/TIME: 6/21/2023 8:45 AM
 PLOT SCALE: AS NOTED
 STANDARD PEN TABLE: YES

TO NEW HAVEN

TO BOSTON

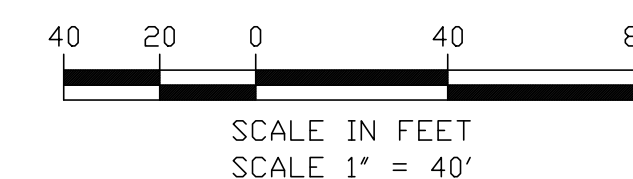
MATCHLINE DWG SITE-11

MATCHLINE DWG SITE-10



LEGEND:

- FEMA 100 — FEMA 100 — FEMA 100 YEAR FLOOD LINE — ELEVATION VARIES
- LCSTV — LCSTV — LAND CAPABLE OF SUPPORTING TIDAL VEGETATION (LCSTV) — ELEVATION 4.1'
- CUL — CUL — COASTAL JURISDICTION LINE (CUL) — ELEVATION 2.9'
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- MHW — MHW — MEAN HIGH WATER (MHW) — ELEVATION 1.60'
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- — — FIELD LOCATED WETLAND BOUNDARY
- LOD — LOD — LIMITS OF PROJECT DISTURBANCE
- — — AMTRAK RIGHT OF WAY (ROW)



ENVIRONMENTAL PERMIT PLANS
PLAN DATE: MAY 2, 2023

No.	Revisions	Date	By



Office of Chief Engineer
STRUCTURES
National Railroad Passenger Corporation
30th Street Station, Philadelphia, Pennsylvania 19104

Approved	Date



HARDESTY & HANOVER, LLC
ENGINEERING
1501 Broadway New York, NY 10036
WSP 1700 Market St. Suite 1050
Philadelphia, PA 19103

OLD SAYBROOK CONNECTICUT
**REPLACEMENT OF MB 106.89
OVER CONNECTICUT RIVER**
SITE PLAN
Designed CB Drawn CB/MD Checked KM Date 5/2/2023

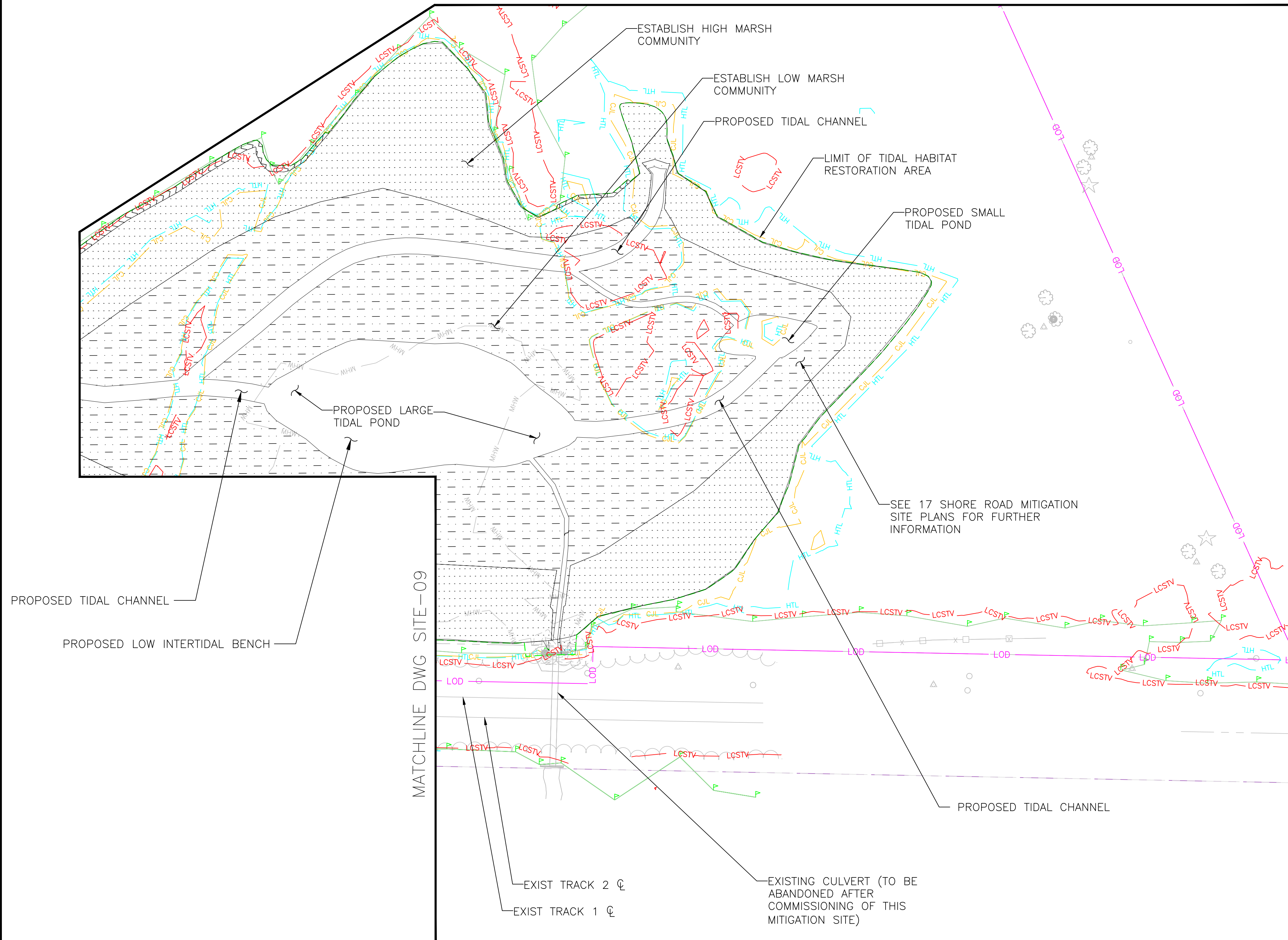
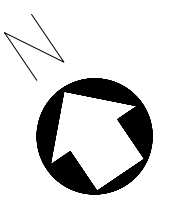
Project Code: XXX XXX
WBS:
Sheet No. 26 OF 140
Dwg. No. **SITE-09**

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PRINT DATE: 7/18/2023 8:45 AM
PLOT SCALE: AS NOTED
STANDARD PEN TABLE: YES

TO NEW HAVEN

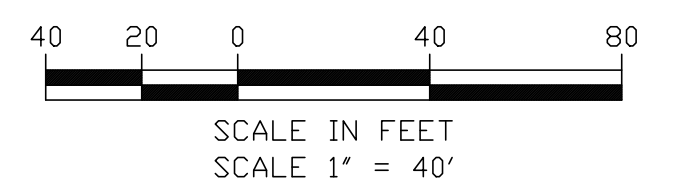
TO BOSTON

MATCHLINE DWG SITE-11



LEGEND:

- FEMA 100 — FEMA 100 — FEMA 100 YEAR FLOOD LINE — ELEVATION VARIES
- LCSTV — LCSTV — LAND CAPABLE OF SUPPORTING TIDAL VEGETATION (LCSTV) — ELEVATION 4.1'
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- — — AMTRAK RIGHT OF WAY (ROW)



ENVIRONMENTAL PERMIT PLANS
PLAN DATE: MAY 2, 2023

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STRUCTURES

National Railroad Passenger Corporation
30th Street Station, Philadelphia, Pennsylvania 19104

Approved	Date



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WSP 1700 Market St. Suite 1050
Philadelphia, PA 19103

OLD SAYBROOK CONNECTICUT
**REPLACEMENT OF MB 106.89
OVER CONNECTICUT RIVER**
SITE PLAN

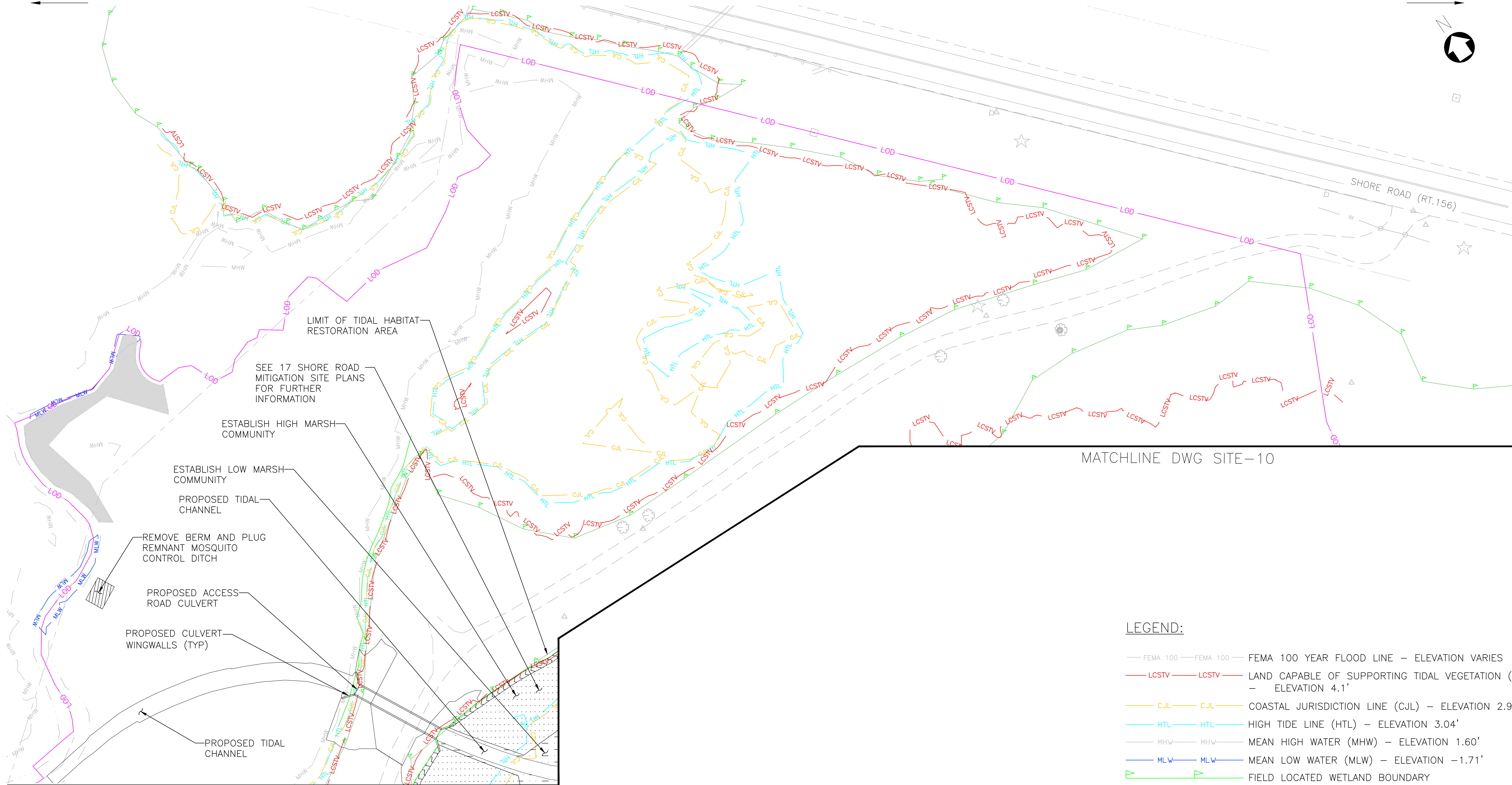
Designed	CB	Drawn	CB/MD	Checked	KM	Date	5/2/2023
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Project Code: XXX XXX
WBS:
Sheet No. 27 OF 140
Dwg. No. **SITE-10**

FILE NAME: 217004-SITE-01-12.DWG
PRINT DATE: 7/18/2023 8:45 AM
PLOT SCALE: AS NOTED
STANDARD PEN TABLE: YES

TO NEW HAVEN

TO BOSTON

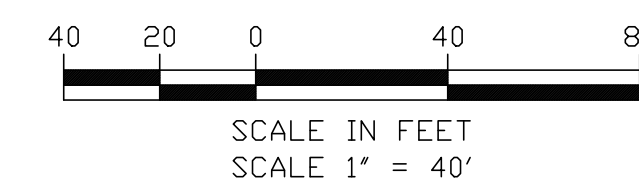


MATCHLINE DWG SITE-09

MATCHLINE DWG SITE-10

LEGEND:

- FEMA 100 — FEMA 100 — FEMA 100 YEAR FLOOD LINE — ELEVATION VARIES
- LCSTV — LCSTV — LAND CAPABLE OF SUPPORTING TIDAL VEGETATION (LCSTV) — ELEVATION 4.1'
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ENVIRONMENTAL PERMIT PLANS
PLAN DATE: MAY 2, 2023

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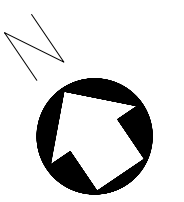
OLD SAYBROOK CONNECTICUT
**REPLACEMENT OF MB 106.89
OVER CONNECTICUT RIVER**
SITE PLAN
Designed CB Drawn CB/MD Checked KM Date 5/2/2023

Project Code: XXX XXX
WBS:
Sheet No. 28 OF 140
Dwg. No. **SITE-11**

FILE NAME: 212004-SITE-01 - 02.DWG
PRINT DATE: 7/16/2023 8:45 AM
PLOT SCALE: AS NOTED
STANDARD PEN TABLE: YES

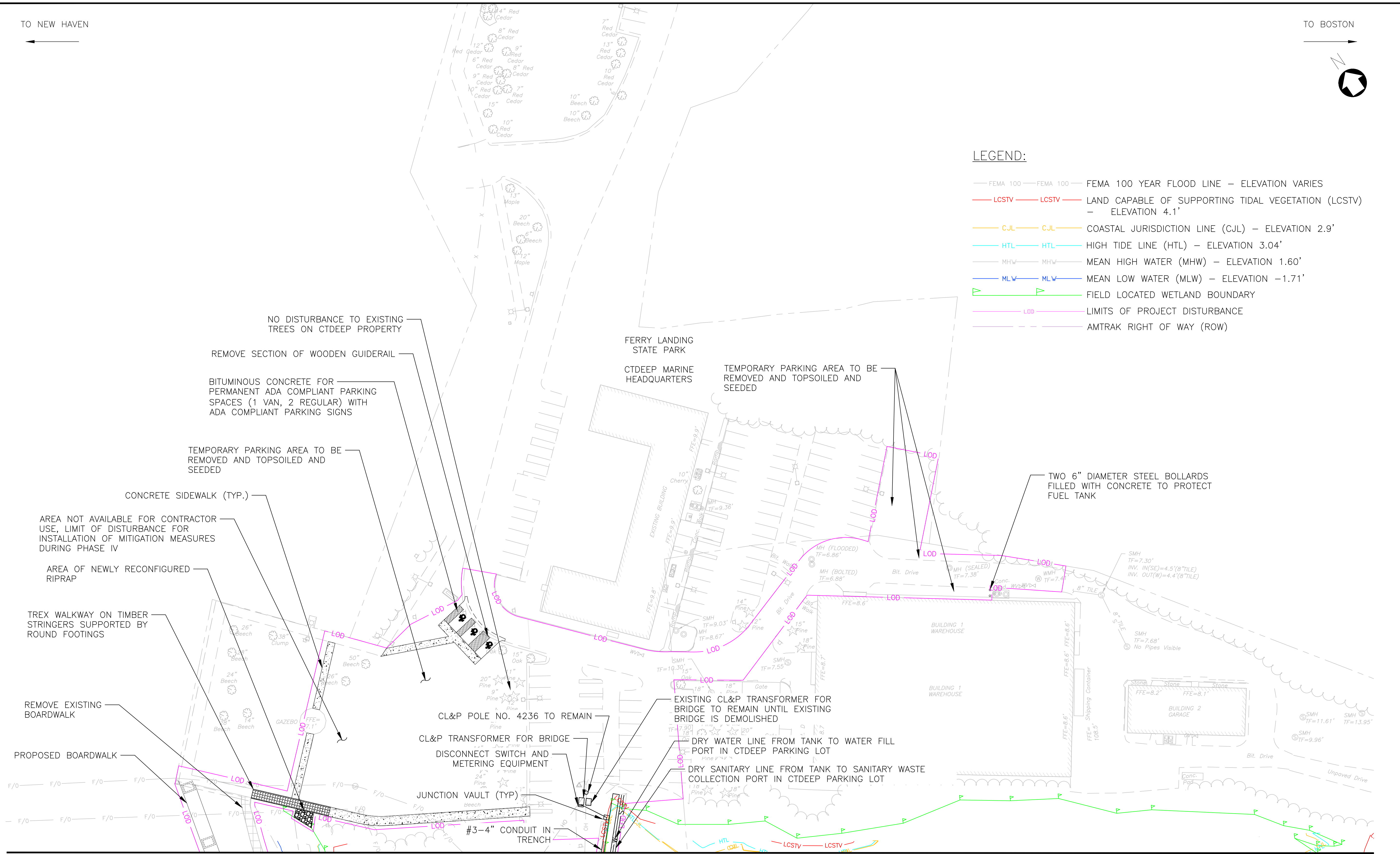
TO NEW HAVEN

TO BOSTON



LEGEND:

- FEMA 100 — FEMA 100 — FEMA 100 YEAR FLOOD LINE — ELEVATION VARIES
- LCSTV — LCSTV — LAND CAPABLE OF SUPPORTING TIDAL VEGETATION (LCSTV) — ELEVATION 4.1'
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- AMTRAK RIGHT OF WAY (ROW)



MATCHLINE DWG SITE-07



FILE NAME: 217004-SITE-01 - 02.DWG
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STRUCTURES
National Railroad Passenger Corporation
30th Street Station, Philadelphia, Pennsylvania 19104

Approved	Date

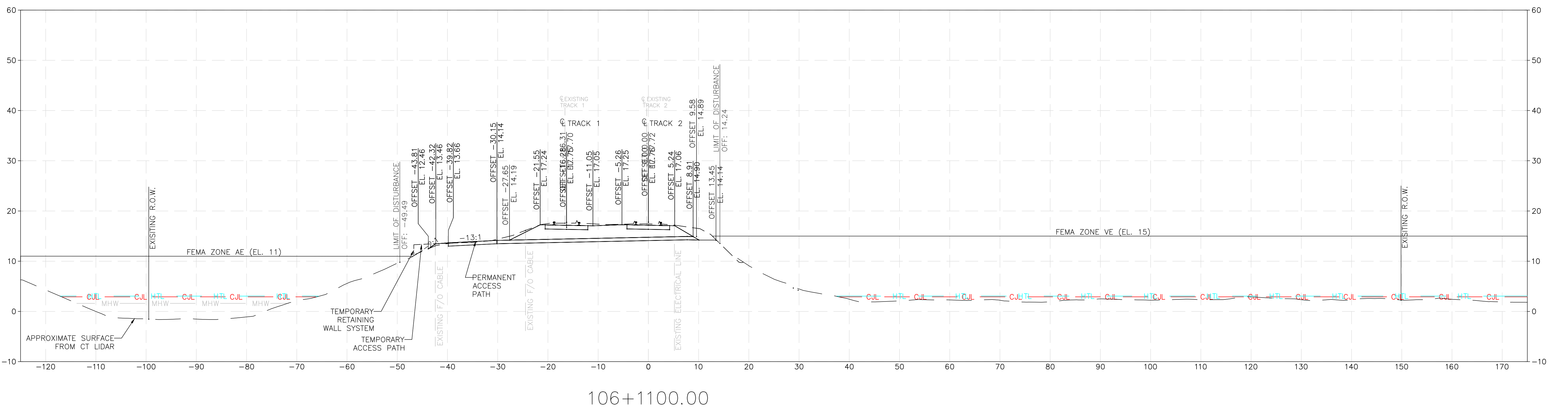
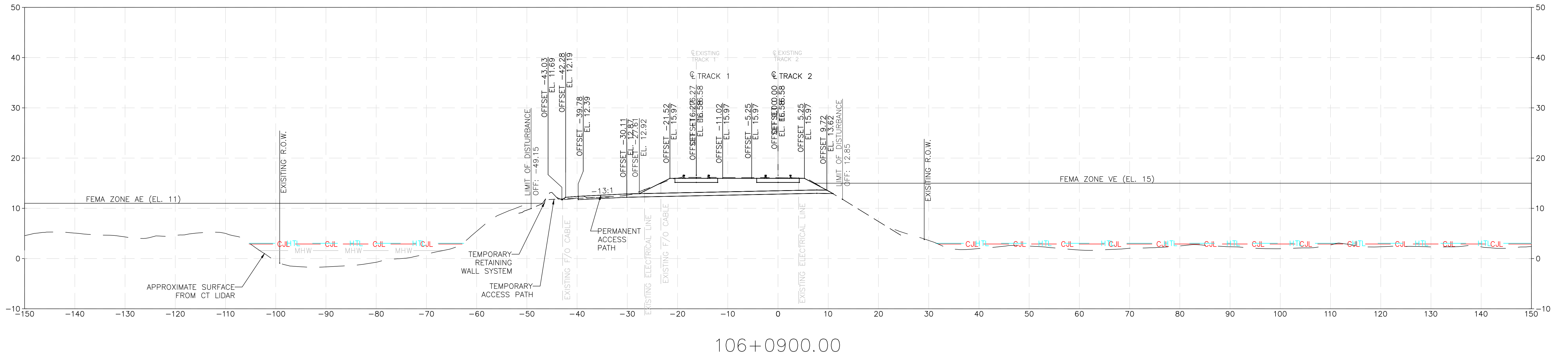


ENVIRONMENTAL PERMIT PLANS
PLAN DATE: MAY 2, 2023

HARDESTY & HANOVER, LLC
ENGINEERING
1501 Broadway New York, NY 10036
1700 Market St. Suite 1050
Philadelphia, PA 19103

OLD SAYBROOK CONNECTICUT
**REPLACEMENT OF MB 106.89
OVER CONNECTICUT RIVER**
SITE PLAN
Designed CB Drawn CB/MD Checked KM Date 5/2/2023

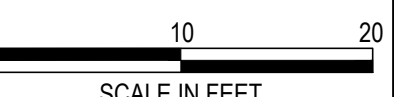
Project Code: XXX XXX
WBS:
Sheet No. 29 OF 140
Dwg. No. **SITE-12**



NOTES:

1. PERMITTED LIMIT OF DISTURBANCE ALLOWS FOR CONSTRUCTION AND REMOVAL OF TEMPORARY TRESTLE WORK PLATFORMS AND TEMPORARY ACCESS PATH.

ENVIRONMENTAL PERMIT PLANS
PLAN DATE: MAY 2, 2023



No.	Revisions	Date	By



Office of Chief Engineer
STRUCTURES
National Railroad Passenger Corporation
30th Street Station, Philadelphia, Pennsylvania 19104

Approved	Date

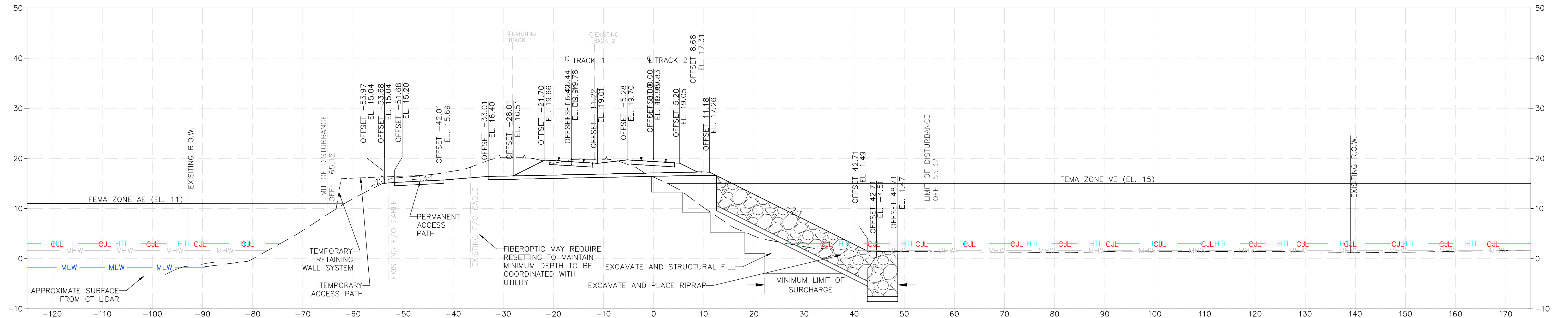


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Philadelphia, PA 19103

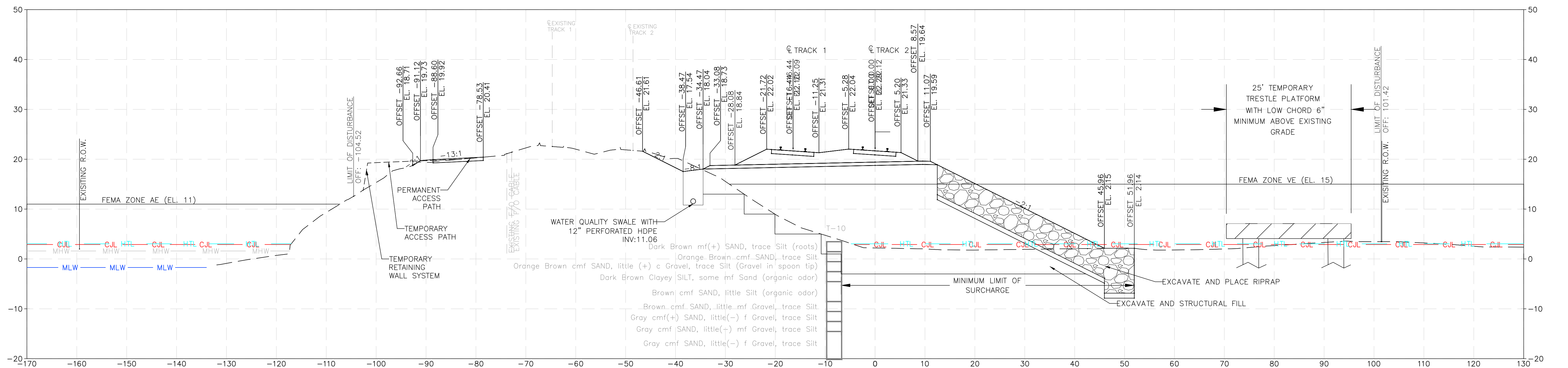
OLD SAYBROOK CONNECTICUT
**REPLACEMENT OF MB 106.89
OVER CONNECTICUT RIVER**
PROPOSED CROSS SECTIONS
Designed KM Drawn CB Checked KF Date 5/2/2023

Project Code: XXX XXX
WBS:
Sheet No. 30 OF 140
Dwg. No. **XCS-01**

FILE NAME: Y:\21200A-X-SECS010_PENL.DWG
PRINT DATE/TIME: 5/2/2023 11:10 AM
PLOT SCALE: AS NOTED
STANDARD PEN TABLE: YES



106+1400.00

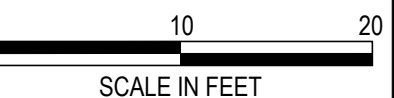


106+1700.00

NOTES:

1. PERMITTED LIMIT OF DISTURBANCE ALLOWS FOR CONSTRUCTION AND REMOVAL OF TEMPORARY TRESTLE WORK PLATFORMS AND TEMPORARY ACCESS PATH.
2. SEE GEO-04 FOR EMBANKMENT CONSTRUCTION SCHEME AND BENCHING REQUIREMENTS.

ENVIRONMENTAL PERMIT PLANS
PLAN DATE: MAY 2, 2023



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National Railroad Passenger Corporation
30th Street Station, Philadelphia, Pennsylvania 19104

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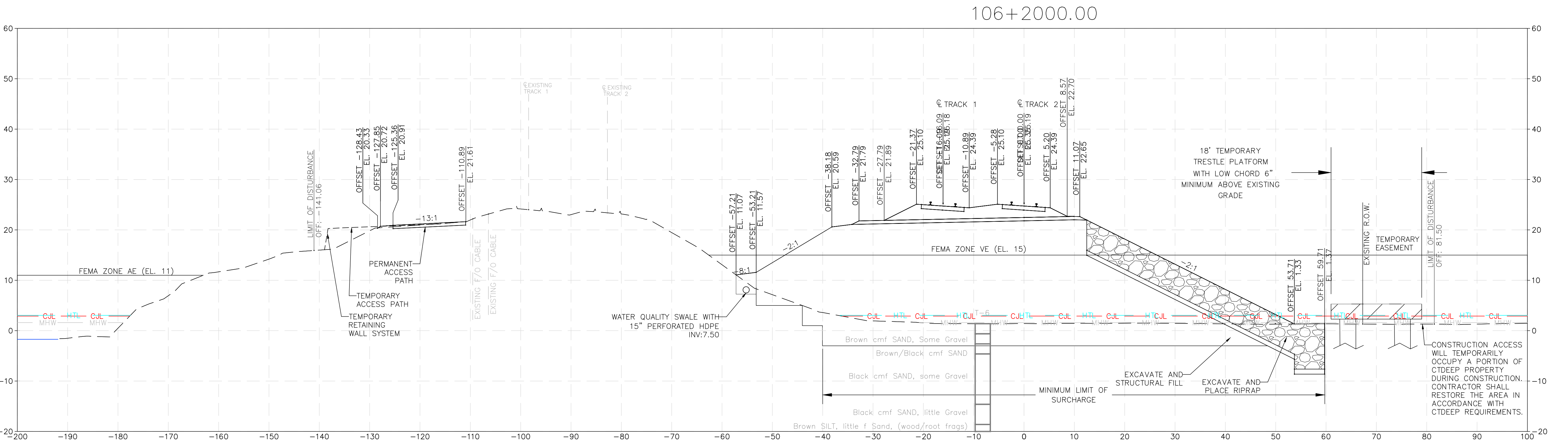
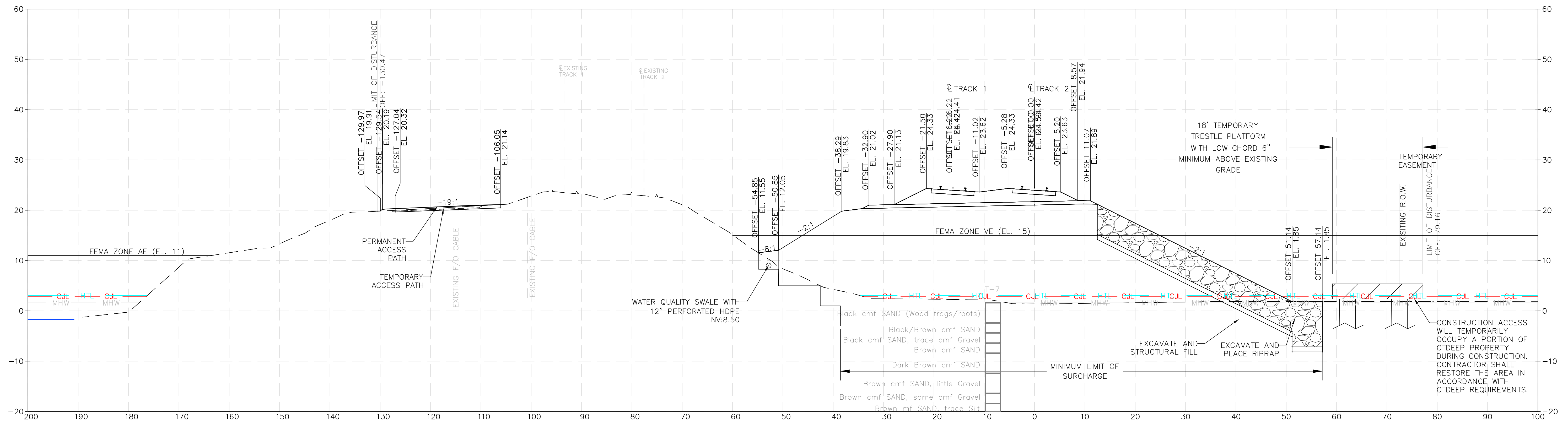


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OLD SAYBROOK CONNECTICUT
**REPLACEMENT OF MB 106.89
OVER CONNECTICUT RIVER**
PROPOSED CROSS SECTIONS
Designed KM Drawn CB Checked KF Date 5/2/2023

Project Code: XXX XXX
WBS:
Sheet No. 31 OF 140
Dwg. No. XCS-02

FILE NAME: Y:\21000A-X-SECS010_PENL.DWG
PRINT DATE/TIME: 5/2/2023 11:10 AM
PLOT SCALE: AS NOTED
STANDARD PEN TABLE: YES



- NOTES:
1. PERMITTED LIMIT OF DISTURBANCE ALLOWS FOR CONSTRUCTION AND REMOVAL OF TEMPORARY TRESTLE WORK PLATFORMS AND TEMPORARY ACCESS PATH.
 2. SEE GEO-04 FOR EMBANKMENT CONSTRUCTION SCHEME AND BENCHING REQUIREMENTS.

ENVIRONMENTAL PERMIT PLANS
PLAN DATE: MAY 2, 2023



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30th Street Station, Philadelphia, Pennsylvania 19104

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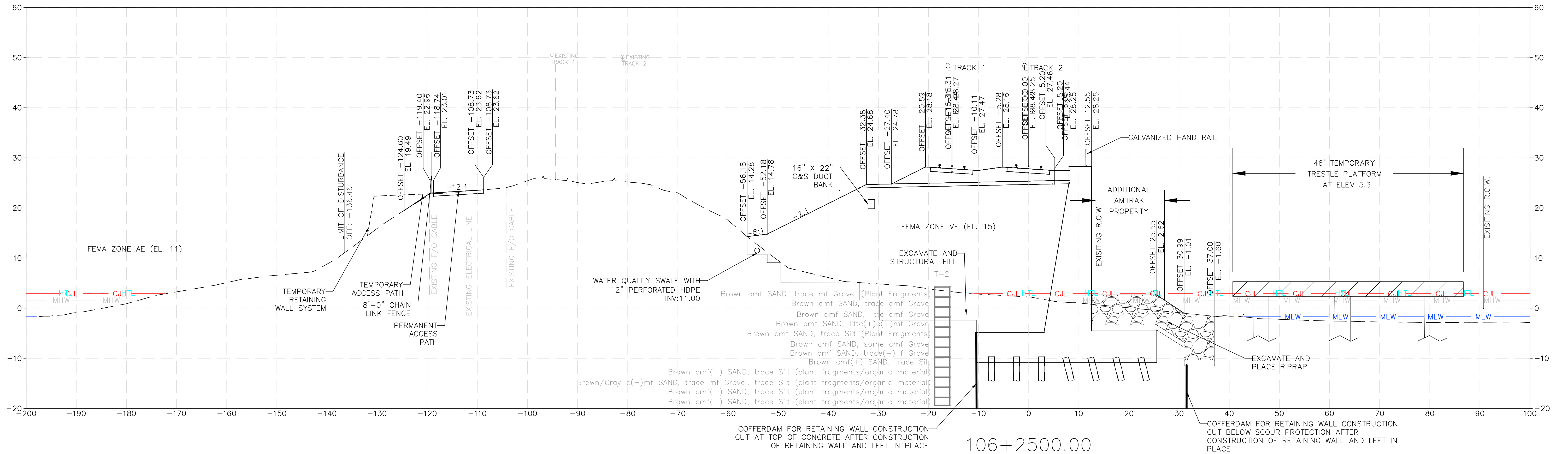


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**REPLACEMENT OF MB 106.89
OVER CONNECTICUT RIVER**
PROPOSED CROSS SECTIONS
Designed KM Drawn CB Checked KF Date 5/2/2023

Project Code: XXX XXX
WBS:
Sheet No. 32 OF 140
Dwg. No. **XCS-03**

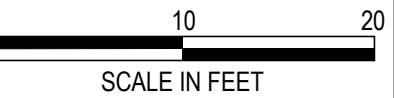
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PRINT DATE/TIME: 5/2/2023 11:10 AM
PLOT SCALE: AS NOTED
STANDARD PEN TABLE: YES



NOTES:

1. PERMITTED LIMIT OF DISTURBANCE ALLOWS FOR CONSTRUCTION AND REMOVAL OF TEMPORARY TRESTLE WORK PLATFORMS AND TEMPORARY ACCESS PATH.
2. SEE GEO-04 FOR EMBANKMENT CONSTRUCTION SCHEME AND BENCHING REQUIREMENTS.

ENVIRONMENTAL PERMIT PLANS
PLAN DATE: MAY 2, 2023



FILE NAME: VE_012023A-X-SECS010_PENL.DWG
PLOT DATE: 7/10/23 11:10 AM
PLOT SCALE: AS NOTED
STANDARD PEN TABLE: YES

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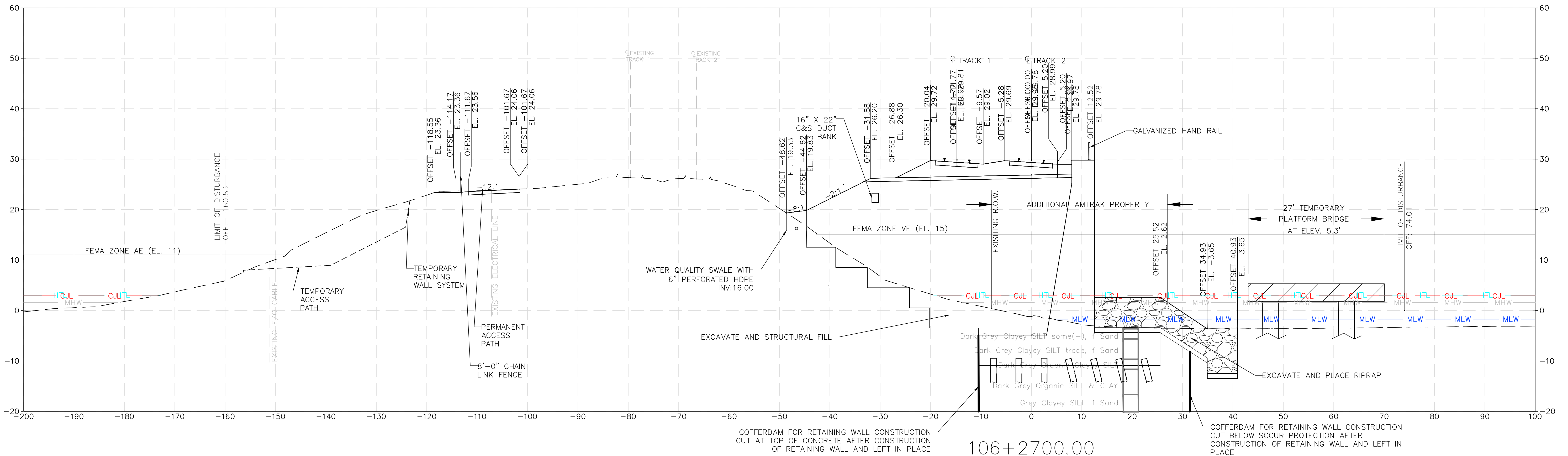
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**REPLACEMENT OF MB 106.89
OVER CONNECTICUT RIVER**
PROPOSED CROSS SECTIONS
Designed KM Drawn CB Checked KF Date 5/2/2023

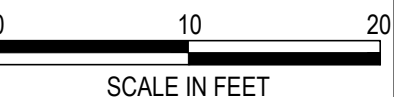
Project Code: XXX XXX
WBS:
Sheet No. 33 OF 140
Dwg. No. **XCS-04**



NOTES:

1. PERMITTED LIMIT OF DISTURBANCE ALLOWS FOR CONSTRUCTION AND REMOVAL OF TEMPORARY TRESTLE WORK PLATFORMS AND TEMPORARY ACCESS PATH.
2. SEE GEO-04 FOR EMBANKMENT CONSTRUCTION SCHEME AND BENCHING REQUIREMENTS.

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PLAN DATE: MAY 2, 2023



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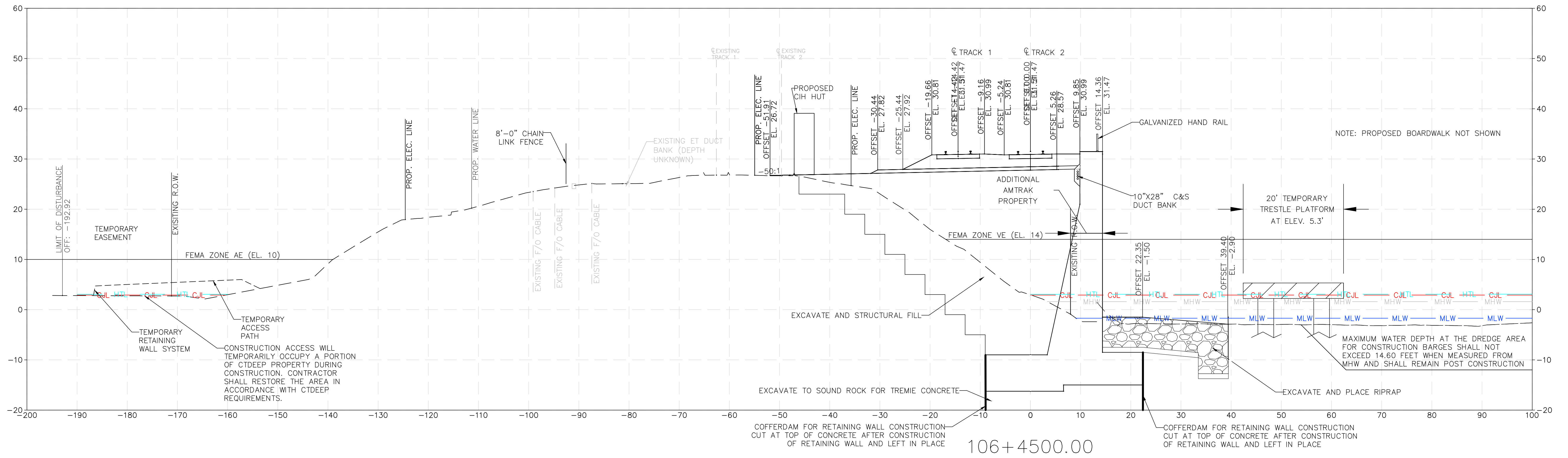
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**REPLACEMENT OF MB 106.89
OVER CONNECTICUT RIVER**
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Project Code: XXX XXX
WBS:
Sheet No. 34 OF 140
Dwg. No. **XCS-05**

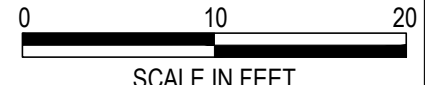
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PRINT DATE/TIME: 5/2/2023 11:10 AM
PLOT SCALE: AS NOTED
STANDARD PEN TABLE: YES

NOTE: SECTIONS ACROSS BRIDGE ARE NOT PROVIDED



- NOTES:
1. PERMITTED LIMIT OF DISTURBANCE ALLOWS FOR CONSTRUCTION AND REMOVAL OF TEMPORARY TRESTLE WORK PLATFORMS AND TEMPORARY ACCESS PATH.
 2. SEE GEO-04 FOR EMBANKMENT CONSTRUCTION SCHEME AND BENCHING REQUIREMENTS.

ENVIRONMENTAL PERMIT PLANS
PLAN DATE: MAY 2, 2023



FILE NAME: Y:\01000A-X-5052019_PENL.DWG
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STANDARD PEN TABLE: YES

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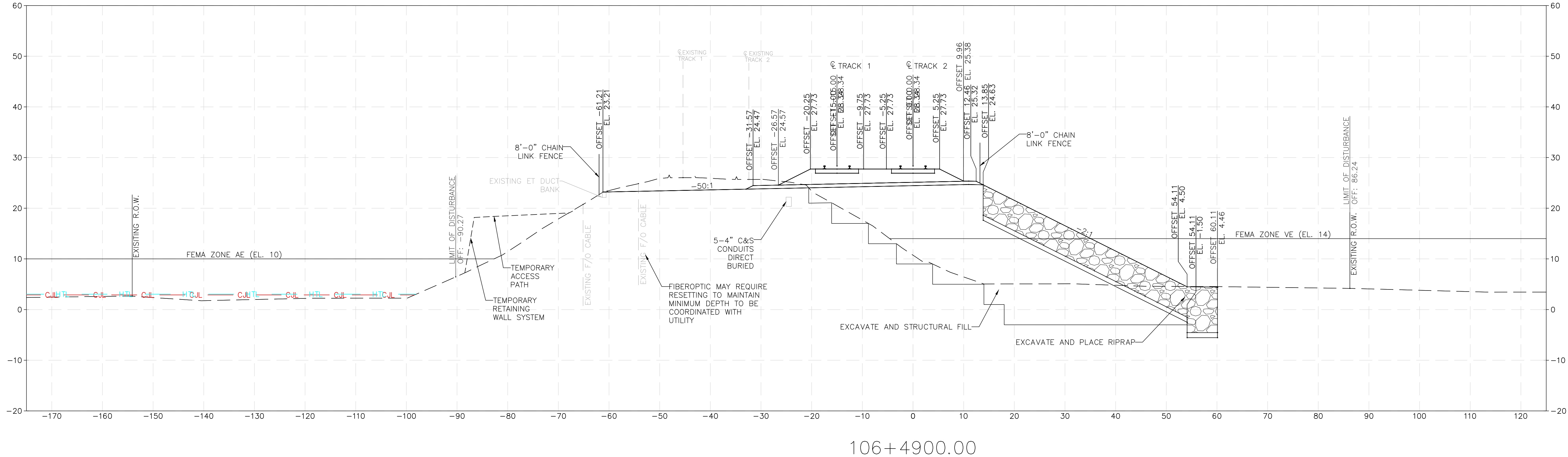
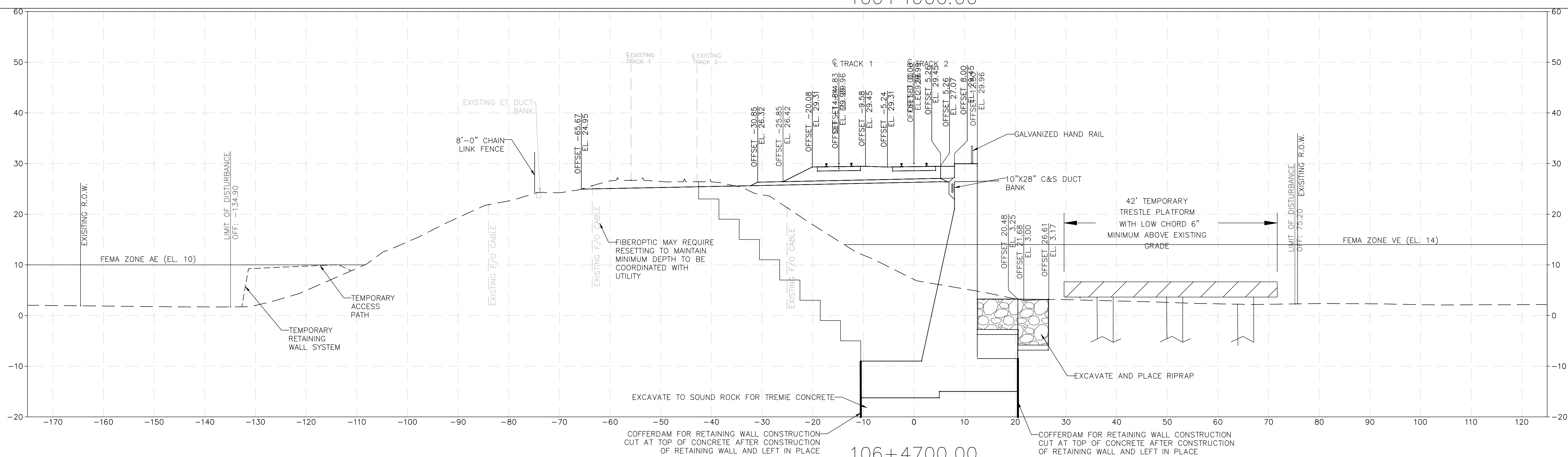
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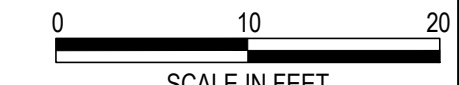
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**REPLACEMENT OF MB 106.89
OVER CONNECTICUT RIVER**
PROPOSED CROSS SECTIONS
Designed KM Drawn CB Checked KF Date 5/2/2023

Project Code: XXX XXX
WBS:
Sheet No. 35 OF 140
Dwg. No. **XCS-06**



- NOTES:**
1. PERMITTED LIMIT OF DISTURBANCE ALLOWS FOR CONSTRUCTION AND REMOVAL OF TEMPORARY TRESTLE WORK PLATFORMS AND TEMPORARY ACCESS PATH.
 2. SEE GEO-04 FOR EMBANKMENT CONSTRUCTION SCHEME AND BENCHING REQUIREMENTS.

ENVIRONMENTAL PERMIT PLANS
PLAN DATE: MAY 2, 2023



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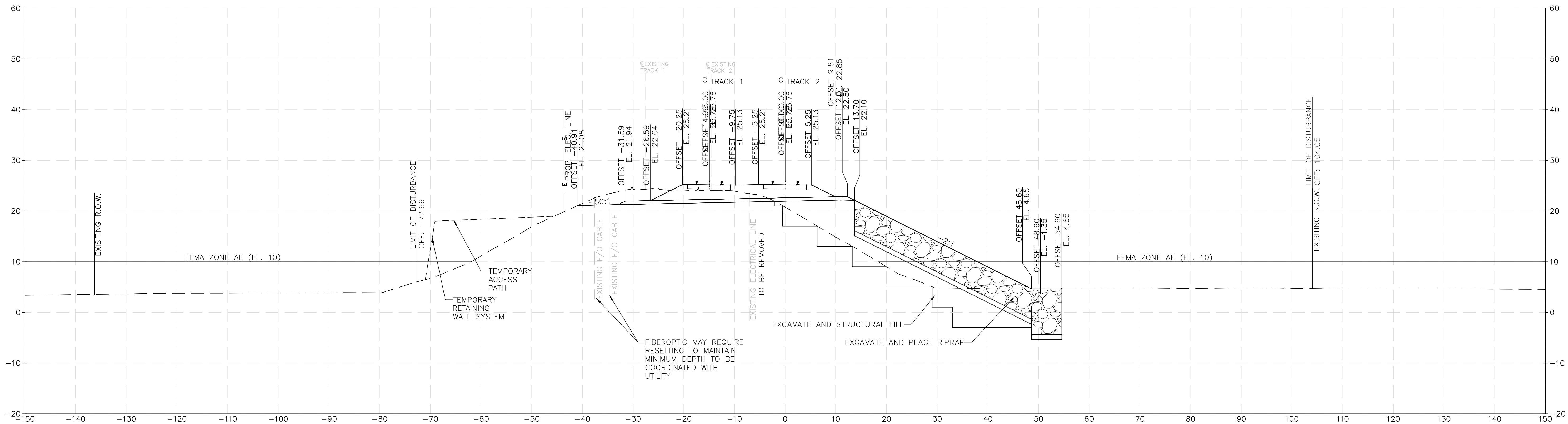


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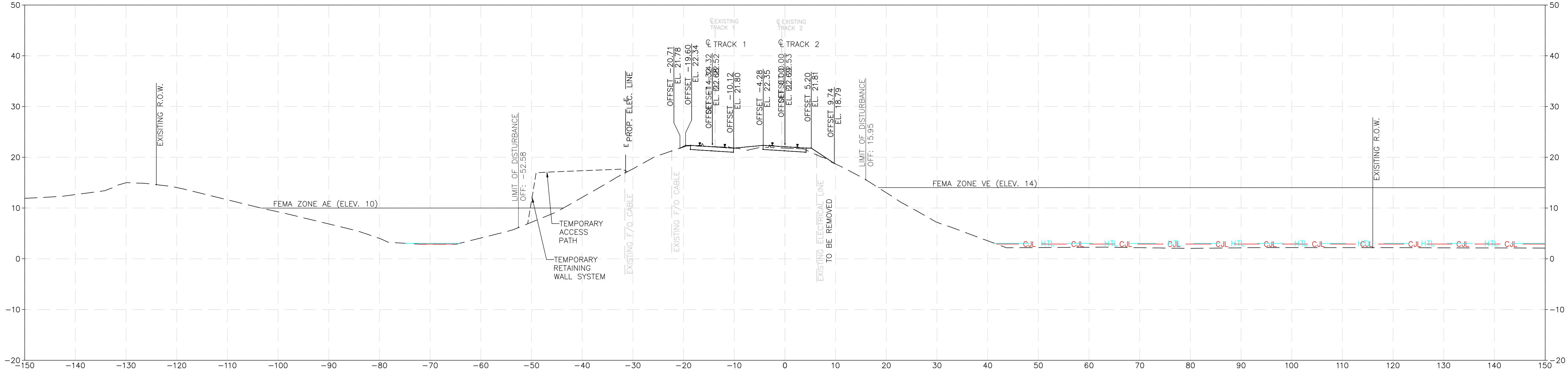
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**REPLACEMENT OF MB 106.89
OVER CONNECTICUT RIVER**
PROPOSED CROSS SECTIONS
Designed KM Drawn CB Checked KF Date 5/2/2023

Project Code: XXX XXX
WBS:
Sheet No. 36 OF 140
Dwg. No. **XCS-07**

FILE NAME: Y:\217004-X-SECS2019_PENL.DWG
PRINT DATE/TIME: 5/2/2023 11:11 AM
PLOT SCALE: AS NOTED
STANDARD PEN TABLE: YES



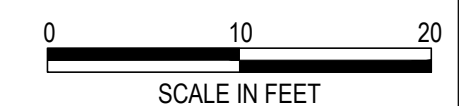
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- NOTES:**
1. PERMITTED LIMIT OF DISTURBANCE ALLOWS FOR CONSTRUCTION AND REMOVAL OF TEMPORARY TRESTLE WORK PLATFORMS AND TEMPORARY ACCESS PATH.
 2. SEE GEO-04 FOR EMBANKMENT CONSTRUCTION SCHEME AND BENCHING REQUIREMENTS.

ENVIRONMENTAL PERMIT PLANS
PLAN DATE: MAY 2, 2023



FILE NAME: VC_012004-X-SECS2010_PENL.DWG
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 PLOT SCALE: AS NOTED
 STANDARD PEN TABLE: YES

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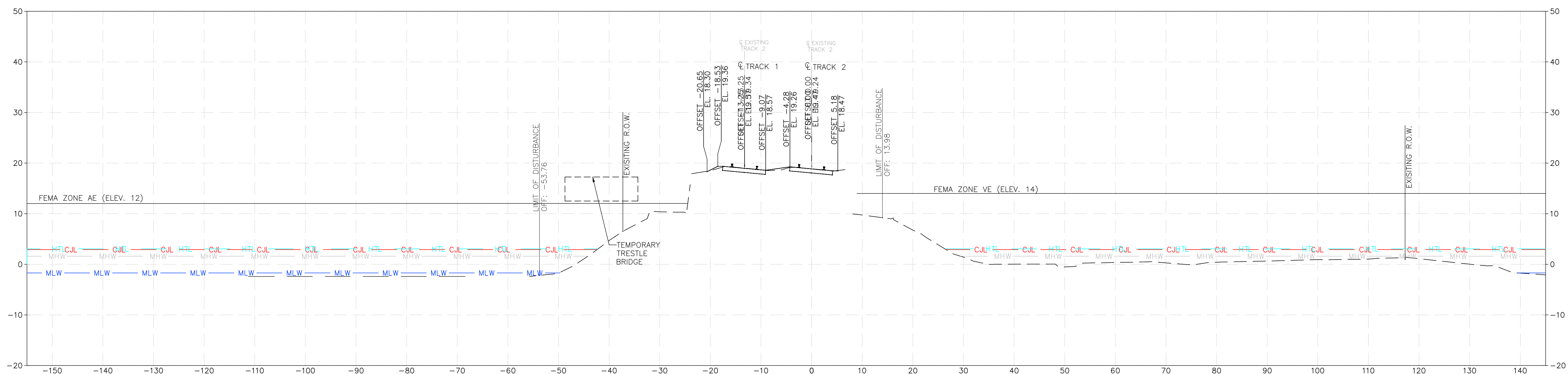
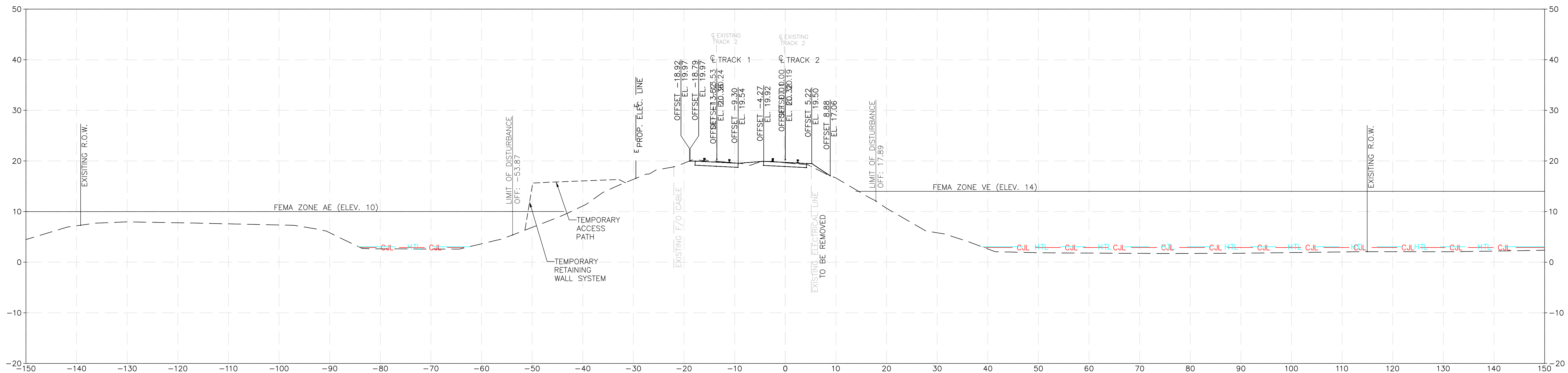
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**REPLACEMENT OF MB 106.89
OVER CONNECTICUT RIVER**
PROPOSED CROSS SECTIONS
Designed KM Drawn CB Checked KF Date 5/2/2023

Project Code: XXX XXX
WBS:
Sheet No. 37 OF 140
Dwg. No. **XCS-08**



NOTES:

1. PERMITTED LIMIT OF DISTURBANCE ALLOWS FOR CONSTRUCTION AND REMOVAL OF TEMPORARY TRESTLE WORK PLATFORMS AND TEMPORARY ACCESS PATH.

ENVIRONMENTAL PERMIT PLANS
PLAN DATE: MAY 2, 2023



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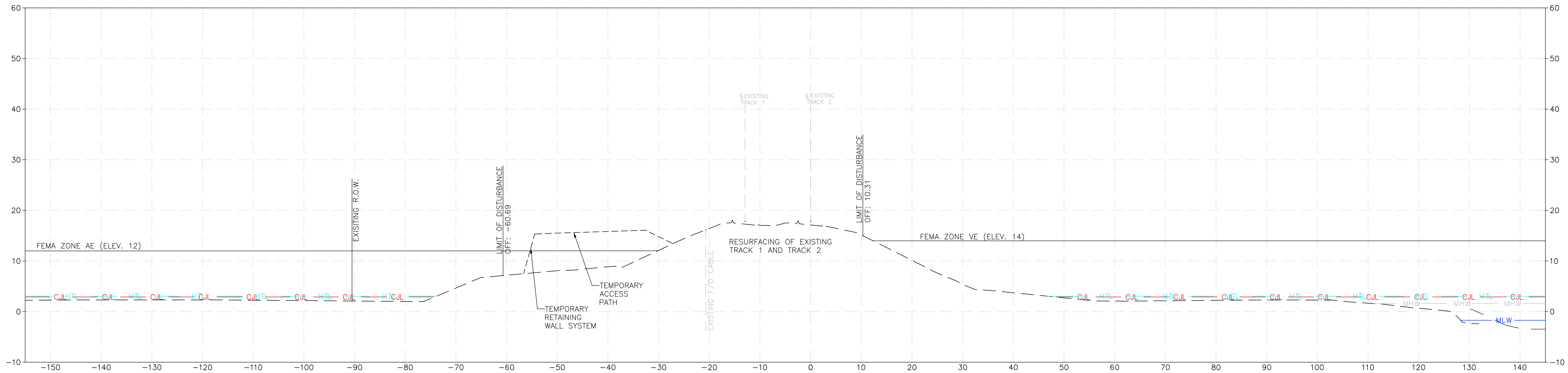
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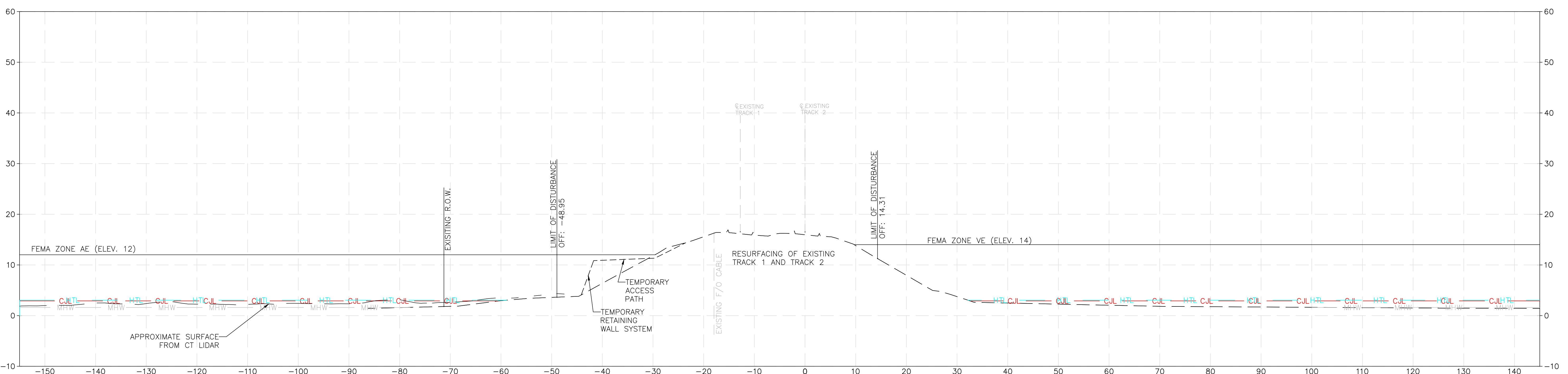
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**REPLACEMENT OF MB 106.89
OVER CONNECTICUT RIVER**
PROPOSED CROSS SECTIONS
Designed KM Drawn CB Checked KF Date 5/2/2023

Project Code: XXX XXX
WBS:
Sheet No. 38 OF 140
Dwg. No. **XCS-09**



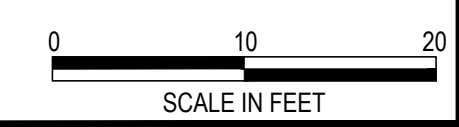
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NOTES:

1. PERMITTED LIMIT OF DISTURBANCE ALLOWS FOR CONSTRUCTION AND REMOVAL OF TEMPORARY TRESTLE WORK PLATFORMS AND TEMPORARY ACCESS PATH.



FILE NAME: Y:\21100A-X-SECS2019_PENL.DWG
 PRINT DATE/TIME: 5/2/2023 11:11 AM
 PLOT SCALE: AS NOTED
 STANDARD PEN TABLE: YES

No.	Revisions	Date	By



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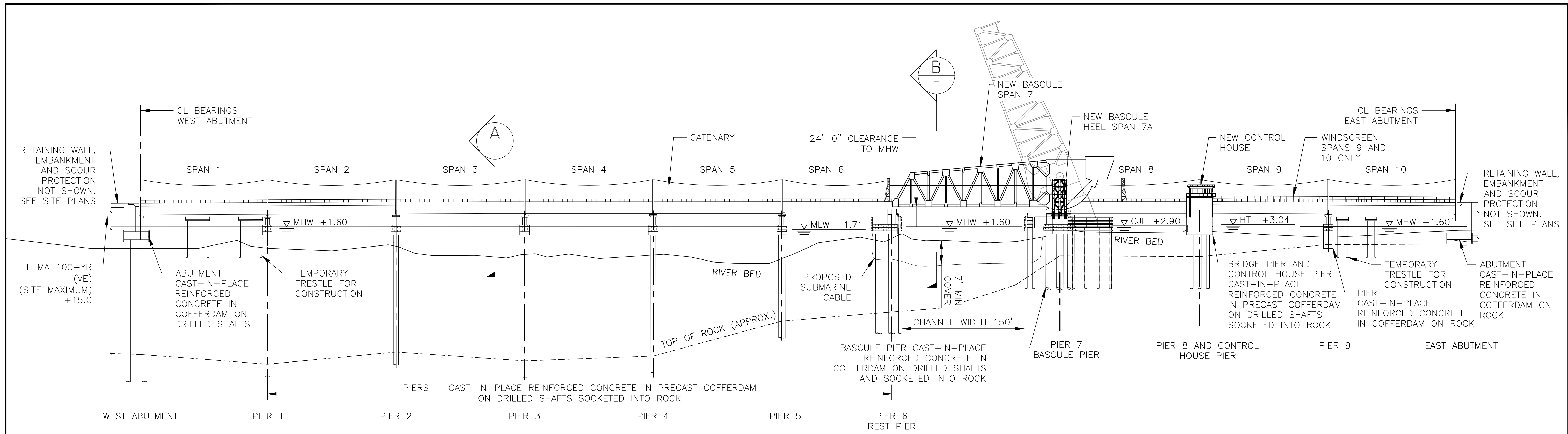


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 PLAN DATE: MAY 2, 2023

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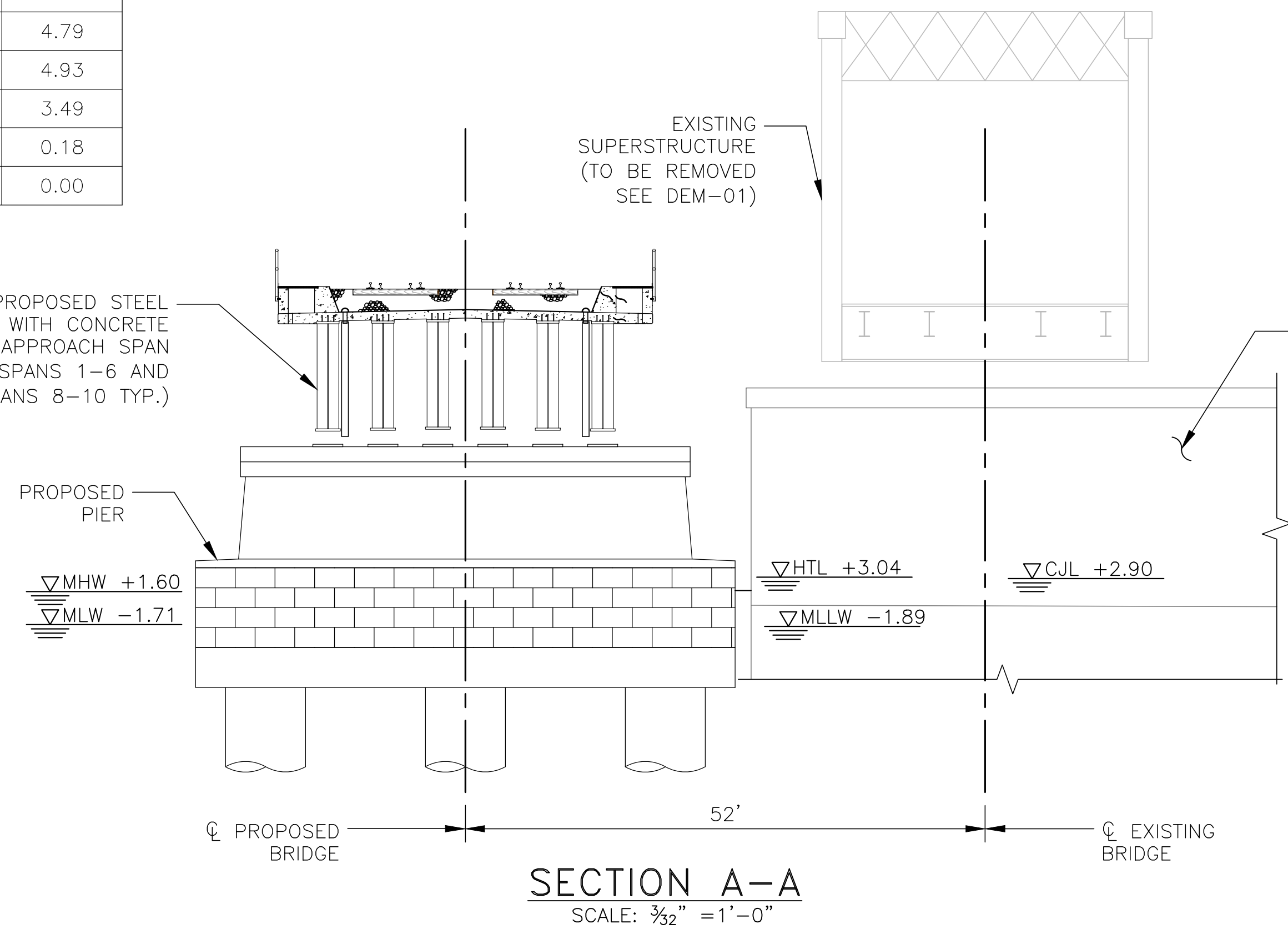
OLD SAYBROOK CONNECTICUT
**REPLACEMENT OF MB 106.89
 OVER CONNECTICUT RIVER**
PROPOSED CROSS SECTIONS
 Designed KM Drawn CB Checked KF Date 5/2/2023

Project Code: XXX XXX
 WBS:
 Sheet No. 39 OF 140
 Dwg. No. **XCS-10**

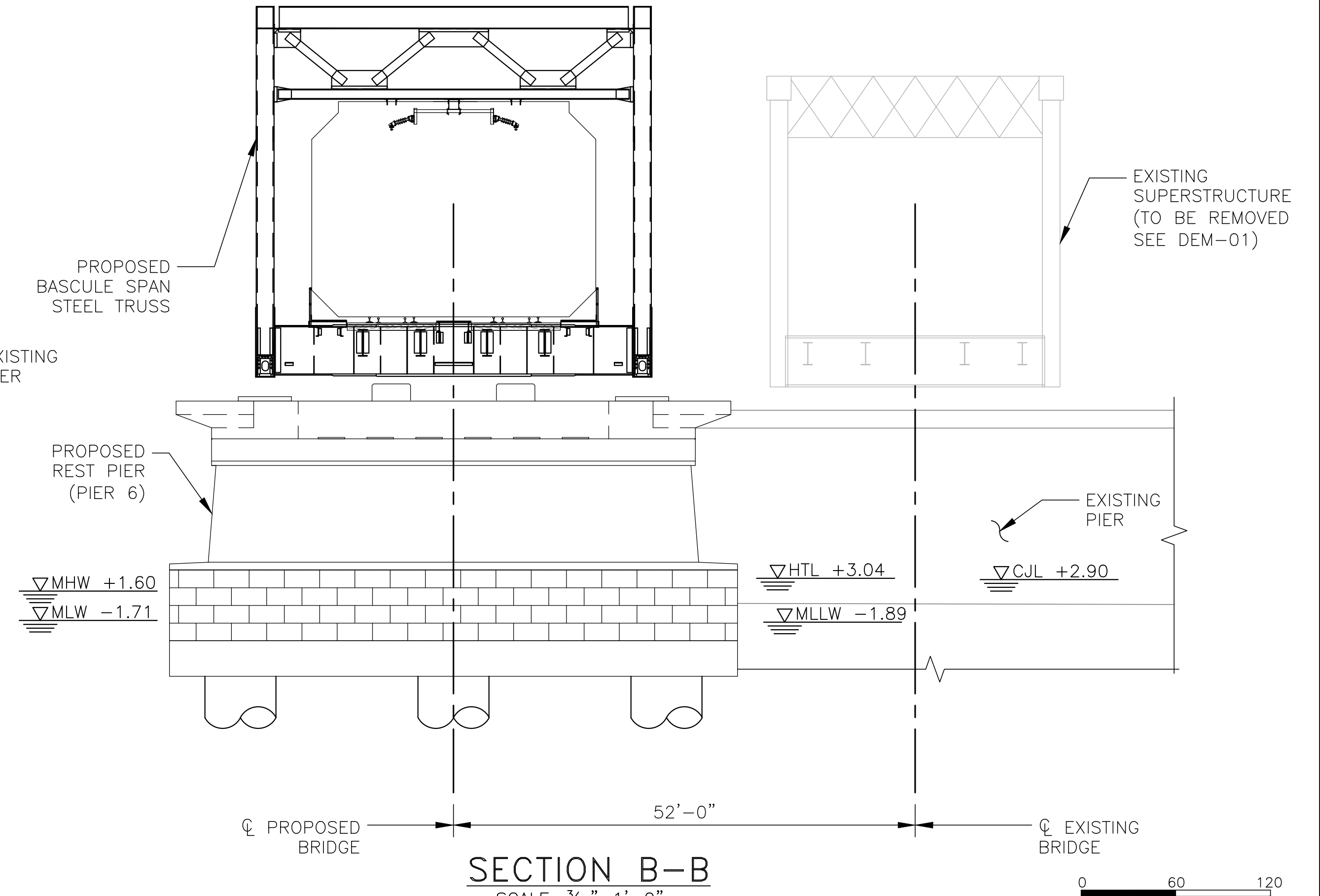


ELEVATION TABLE			
DESCRIPTION	CONTOUR	NOAA (NAV88)(FT)	USACE (MLLW)(FT)
FEMA 100-YEAR (ZONE VE)	100 YR	15.00	16.89
CT COASTAL JURISDICTION LINE	CJL	2.90	4.79
HIGH TIDE LINE	HTL	3.04	4.93
MEAN HIGH WATER LINE	MHW	1.60	3.49
MEAN LOW WATER LINE	MLW	-1.71	0.18
MEAN LOWER LOW WATER LINE	MLLW	-1.89	0.00

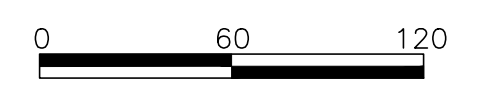
- NOTES:
- NEW PIERS ARE CONSIDERED A PERMANENT IMPACT.
 - THE PLAN AREA IMPACT OF THE NEW PIERS IS TAKEN AT THE PILE CAP SECTION WHERE THE REGULATORY LIMITS INTERCEPT THE STRUCTURAL ELEMENTS.
 - SEE SUM-01 FOR A QUANTIFICATION OF THE IMPACTS AND THE CJL, HTL, AND FEMA SERIES OF DRAWINGS FOR THE PLAN VIEW OF THE IMPACTS.
 - VOLUMETRIC IMPACTS INCLUDE THE DRILLED SHAFTS, PILE CAPS, AND PIER STEMS BELOW THE RELEVANT REGULATORY LINE.
 - FENDER SYSTEM DRILLED SHAFT AND FENCING STRUCTURE ARE QUANTIFIED IN A SIMILAR MANNER.
 - TEMPORARY IMPACTS DUE TO IN-WATER CONSTRUCTION ACTIVITIES ARE SUMMARIZING ON SUM-01 AND ILLUSTRATED ON THE SC SERIES OF DRAWINGS.



SECTION A-A
SCALE: 3/32" = 1'-0"



SECTION B-B
SCALE: 3/32" = 1'-0"



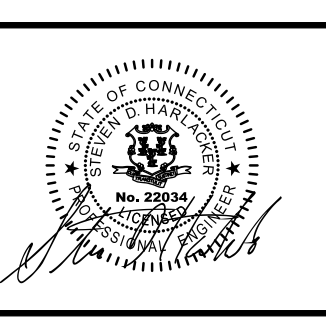
ENVIRONMENTAL PERMIT PLANS
PLAN DATE: MAY 2, 2023

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STRUCTURES
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OLD SAYBROOK CONNECTICUT
**REPLACEMENT OF MB 106.89
OVER CONNECTICUT RIVER**
BRIDGE ELEVATION PROPOSED CONDITIONS
Designed MY Drawn MY Checked SJT Date 5/2/2023

Project Code:	XXX XXX
WBS:	000000
Sheet No.:	40 OF 140
Fig. No.	EL-01

FILE NAME: 2404-EL-01-ELEVATION-PROPOSED-CONDITIONS.DWG
PLANT FILE: AS NOTED
STANDARD FEIN TABLE: YES

SUMMARY OF TEMPORARY IMPACTS (SF)				
SHEET (-##)	STATE (SEE CJL-## SHEETS)			FEDERAL (SEE HTL-## SHEETS)
	VEGETATED TIDAL WETLAND	BELOW CJL	BELOW LCSTV (ABOVE CJL)	BELOW HTL
-01	0	0	0	0
-02	0	0	0	0
-03	0	0	0	0
-04	6080	2000	7390	8630
-05	17200	30340	420	47540
-06	0	33910 (SEE NOTE 11)	0	33910 (SEE NOTE 11)
-07	21320	33460	9840	78050
-08	1060	3950	740	5070
-09	0	30	980	0
-10	0	0	0	0
-11	0	0	0	0
-12	460	10	140	3490
TOTAL	46120 SF (1.06 AC)	103700 SF (2.38 AC)	19510 SF (0.45 AC)	176690 SF (4.06 AC)

SUMMARY OF PERMANENT IMPACTS (SF)				
SHEET (-##)	STATE (SEE CJL-## SHEETS)			FEDERAL (SEE HTL-## SHEETS)
	VEGETATED TIDAL WETLAND	BELOW CJL	BELOW LCSTV (ABOVE CJL)	BELOW HTL
-01	0	0	0	0
-02	0	0	0	0
-03	0	0	0	0
-04	11760	3170	6440	15480
-05	57170	36540	6960	94710
-06	0	35990	0	35990
-07	160	29830	8900	31980
-08	0	0	0	0
-09	0	0	0	0
-10	0	0	0	0
-11	0	0	0	0
-12	0	0	0	160
TOTAL	69090 SF (1.59 AC)	105530 SF (2.42 AC)	22300 SF (0.51 AC)	178320 SF (4.09 AC)

SUMMARY OF IMPACTS (AC)		
	STATE	FEDERAL
TEMPORARY	3.89 AC	4.06 AC
PERMANENT	4.52 AC	4.09 AC

NOTES

- VERTICAL DATUM IS NAVD 88. REGULATORY ELEVATIONS BASED ON NOAA GAUGE BENCHMARK.
- IMPACTS BELOW THE VEGETATED TIDAL WETLANDS INCLUDE AREAS FLAGGED IN THE FIELD, SHORE TO SHORE.
- IMPACTS BELOW THE CJL INCLUDE AREAS BELOW THE CJL ELEVATION, SHORE TO SHORE, THAT ARE NOT INCLUDED AS VEGETATED TIDAL WETLAND.
- IMPACTS BELOW THE LAND CAPABLE OF SUPPORTING TIDAL VEGETATION (LCSTV) INCLUDE AREAS BELOW THE LCSTV ELEVATION, SHORE TO SHORE, THAT ARE NOT INCLUDED AS BELOW CJL OR VEGETATED TIDAL WETLAND.
- IMPACTS BELOW THE HTL INCLUDE ALL AREAS BELOW THE HTL ELEVATION, SHORE TO SHORE, INCLUDING THOSE DESIGNATED AS VEGETATED TIDAL WETLAND. WHILE NOT BELOW THE HTL, THE SMALL AREAS OF FLAGGED VEGETATED TIDAL WETLANDS LOCATED ABOVE THE HTL WHERE INCLUDED IN THESE IMPACT NUMBERS.
- THE 100-YEAR FLOOD ELEVATION VARIES THROUGHOUT THE SITE. SEE FLOOD INSURANCE RATE MAP (FIRM) PANELS 09007C0361J (EFF. 2/6/2013), 0901C0461J (EFF. 8/5/2013), AND 0901C04652J (EFF. 8/5/2013) FOR ELEVATION VALUES AND LIMITS OF APPLICABILITY.
- TURBIDITY CURTAINS ARE REQUIRED FOR ALL CONSTRUCTION ACTIVITIES DISTURBING THE RIVER BOTTOM INCLUDING, BUT NOT LIMITED TO, DRILLED SHAFT INSTALLATION, SUBMARINE CABLE REMOVAL AND INSTALLATION, EXISTING PIER REMOVAL, AND EXISTING FENDER REMOVAL.
- TURBIDITY CURTAINS THAT ARE REQUIRED TO ENVELOPE LARGER WORK AREAS WITH MULTIPLE BARGES ARE ASSUMED TO BE SUPPORTED WITH 10" DIAMETER PIN PILES SPACED AT APPROXIMATELY 10 FEET ON CENTER. PIN PILES FOR TURBIDITY CURTAINS ARE NOT SHOWN. REMOVED PIN PILES ARE A TEMPORARY IMPACT. AREA OF IMPACT FOR EACH PIN PILE IS 0.55 SF.
- TURBIDITY CURTAINS ARE REQUIRED FOR ANY ACTIVITIES REQUIRING BARGES TO BE SECURED TO THE RIVER BOTTOM WITH SPUD PILES. WHERE A TOTAL ENCLOSURE IS NOT REQUIRED, IT IS ASSUMED THAT TURBIDITY CURTAINS WILL BE SUPPORTED OFF OF THE SIDES OF THE WORK BARGES.
- SEE DRAWING SC-01 THROUGH SC-04 FOR SUGGESTED BARGE LAYOUTS AND TURBIDITY CURTAIN LIMITS FOR IN-WATER WORK ACTIVITIES.
- THE MAXIMUM TOTAL TEMPORARY IMPACTS DUE TO TURBIDITY CURTAIN PIN PILES AND BARGE SPUD PILES IS APPROXIMATE 9,500 SF AND IS INCLUDED IN THE VALUES AT LEFT IN THE SHEET -06 IMPACTS. THIS IMPACT ACCOUNTS FOR WORK ASSOCIATED WITH DRILLED SHAFT INSTALLATION, PIER CONSTRUCTION, SPAN INSTALLATION, SUBMARINE CABLE REMOVAL AND INSTALLATION, EXISTING PIER REMOVAL, EXISTING SPAN REMOVAL, AND WORK ASSOCIATED WITH EXISTING AND NEW FISHING PIERS.

TIDAL DATUM	NOAA (NAVD88)(ft)
CJL	2.90
MLW	-1.71
MHW	1.60
HTL	3.04

*ALL ELEVATIONS SHOWN ARE APPROXIMATE AND CONTAINS AN ACCURACY OF 0.10' ± BASED ON RELATION WITH THE USGS AND NOAA GAUGE BENCHMARKS INTERPOLATION AND FIELD VERIFICATION.

FEMA FLOODPLAIN VOLUMES	CUT/REMOVAL	FILL/INSTALLATION	NET
EMBANKMENTS AND RIPRAP =	20500 ± CY	58770 ± CY	38270 ± CY
RETAINING WALLS, ABUTMENTS, AND RIPRAP =	27620 ± CY	43840 ± CY	16220 ± CY
BARGE ACCESS FOR TEMPORARY TRESTLE WORK PLATFORM =	6800 ± CY	0 ± CY	-6800 ± CY
NEW SUBSTRUCTURE AND FENDER =	10480 ± CY	21900 ± CY	11420 ± CY
REMOVAL OF EXISTING SUBSTRUCTURE =	9820 ± CY	0 ± CY	-9820 ± CY
NEW FISHING PIER BOARDWALK =	560 ± CY	1610 ± CY	1050 ± CY
REMOVAL OF FISHING PIER BOARDWALK =	710 ± CY	0 ± CY	-710 ± CY
SUBMARINE CABLES =	3300 ± CY	3300 ± CY	0 ± CY
TOTAL:	79790 ± CY	129420 ± CY	49630 ± CY

VOLUMES BELOW HTL	CUT/REMOVAL	FILL/INSTALLATION	NET
EMBANKMENTS AND RIPRAP =	14460 ± CY	17250 ± CY	2790 ± CY
RETAINING WALLS, ABUTMENTS, AND RIPRAP =	13240 ± CY	16690 ± CY	3450 ± CY
BARGE ACCESS FOR TEMPORARY TRESTLE WORK PLATFORM =	6800 ± CY	0 ± CY	-6800 ± CY
NEW SUBSTRUCTURE AND FENDER =	10480 ± CY	20010 ± CY	9530 ± CY
REMOVAL OF EXISTING SUBSTRUCTURE =	7010 ± CY	0 ± CY	-7010 ± CY
NEW FISHING PIER BOARDWALK =	560 ± CY	590 ± CY	30 ± CY
REMOVAL OF FISHING PIER BOARDWALK =	25 ± CY	0 ± CY	-25 ± CY
SUBMARINE CABLES =	3300 ± CY	3300 ± CY	0 ± CY
TOTAL:	55875 ± CY	57840 ± CY	1965 ± CY

ENVIRONMENTAL PERMIT PLANS
PLAN DATE: MAY 2, 2023

No.	Revisions	Date	By



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Office of Chief Engineer
STRUCTURES
National Railroad Passenger Corporation
30th Street Station, Philadelphia, Pennsylvania 19104

Approved	Date



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wsp 1700 Market St. Suite 1050
Philadelphia, PA 19103

OLD SAYBROOK CONNECTICUT
REPLACEMENT OF MB 106.89 OVER CONNECTICUT RIVER
IMPACT SUMMARY SHEET
Designed CB Drawn CB/MD Checked KM Date 5/2/2023

Project Code: XXX XXX
WBS:
Sheet No. 41 OF 140
Dwg. No. **SUM-01**

FILE NAME: 217004-IMPACT-SUMMARY-SHEETS.DWG
PRINT DATE: 7/16/23 6:11/2023 4:02 PM
PLOT SCALE: AS NOTED
STANDARD PEN TABLE: YES

TO NEW HAVEN

TO BOSTON

LEGEND:

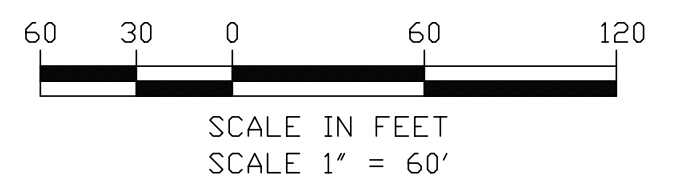
- FEMA 100 — FEMA 100 — FEMA 100 YEAR FLOOD LINE — ELEVATION VARIES
- LCSTV — LCSTV — LAND CAPABLE OF SUPPORTING TIDAL VEGETATION (LCSTV) — ELEVATION 4.1'
- CJL — CJL — COASTAL JURISDICTION LINE (CJL) — ELEVATION 2.9'
- HTL — HTL — HIGH TIDE LINE (HTL) — ELEVATION 3.04'
- MHW — MHW — MEAN HIGH WATER (MHW) — ELEVATION 1.60'
- MLW — MLW — MEAN LOW WATER (MLW) — ELEVATION -1.71'
- FIELD LOCATED WETLAND BOUNDARY
- LOB — LIMITS OF PROJECT DISTURBANCE
- — — AMTRAK RIGHT OF WAY (ROW)
- PERMANENT IMPACTS
- TEMPORARY IMPACTS
- VEGETATED TIDAL WETLAND
- BELOW CJL
- BELOW LCSTV

NOTES:

1. TEMPORARY AND PERMANENT ENCROACHMENT INTO REGULATED WETLANDS SHALL BE IN CONFORMANCE WITH WETLANDS PERMITS ISSUED FOR THE PROJECT. LIMITS OF TEMPORARY ENCROACHMENT SHALL BE DELINEATED WITH STAKES AND FLAGGING.

ANY STAGING AREAS AND PATHS TO BE RETURNED TO EXISTING CONDITION AT COMPLETION OF USE

MATCHLINE DWG CJL-02



FILE NAME: 217004-IMPACT_ACTIVITY_3_CJL_STATE.DWG
PRINT DATE: 7/16/2023 8:34 AM
PLOT SCALE: AS NOTED
STANDARD PEN TABLE: YES

No.	Revisions	Date	By



Office of Chief Engineer
STRUCTURES
National Railroad Passenger Corporation
30th Street Station, Philadelphia, Pennsylvania 19104

Approved	Date



ENVIRONMENTAL PERMIT PLANS
PLAN DATE: MAY 2, 2023

HARDESTY & HANOVER, LLC
ENGINEERING
1501 Broadway New York, NY 10036
wsp 1700 Market St. Suite 1050
Philadelphia, PA 19103

OLD SAYBROOK CONNECTICUT
**REPLACEMENT OF MB 106.89
OVER CONNECTICUT RIVER**
CJL STATE IMPACT PLAN
Designed CB Drawn CB/MD Checked KM Date 5/2/2023











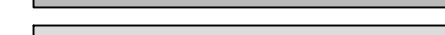

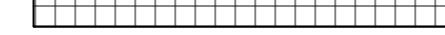

Project Code: XXX XXX
WBS:
Sheet No. 42 OF 140
Dwg. No. **CJL-01**

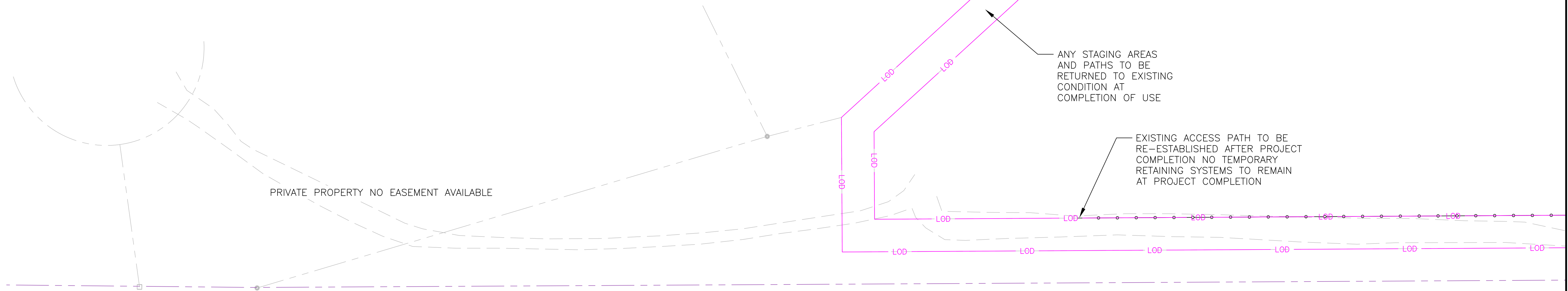
TO NEW HAVEN

TO BOSTON

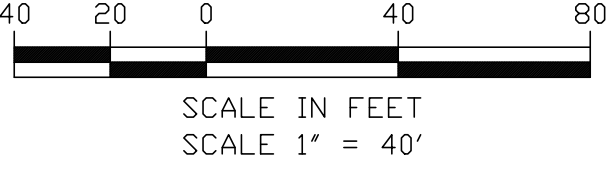
MATCHLINE DWG CJL-01

LEGEND:

-  FEMA 100 — FEMA 100 — FEMA 100 YEAR FLOOD LINE — ELEVATION VARIES
-  LCSTV — LCSTV — LAND CAPABLE OF SUPPORTING TIDAL VEGETATION (LCSTV) — ELEVATION 4.1'
-  CJL — CJL — COASTAL JURISDICTION LINE (CJL) — ELEVATION 2.9'
-  HTL — HTL — HIGH TIDE LINE (HTL) — ELEVATION 3.04'
-  MHW — MHW — MEAN HIGH WATER (MHW) — ELEVATION 1.60'
-  MLW — MLW — MEAN LOW WATER (MLW) — ELEVATION -1.71'
-  FIELD LOCATED WETLAND BOUNDARY
-  LDD — LIMITS OF PROJECT DISTURBANCE
-  AMTRAK RIGHT OF WAY (ROW)
-  PERMANENT IMPACTS
-  TEMPORARY IMPACTS
-  VEGETATED TIDAL WETLAND
-  BELOW CJL
-  BELOW LCSTV



EX T1 105+8697	EX T1 105+8700	EX T1 105+8800	EX T1 105+8900	EX T1 105+9000	EX T1 105+9100	EX T1 105+9200	EX T1 105+9300	EX T1
	EX T2 105+8748	EX T2 105+8800	EX T2 105+8900	EX T2 105+9000	EX T2 105+9100	EX T2 105+9200	EX T2 105+9300	EX T2



FILE NAME: 217004-IMPACT_ACTIVITY_3_CJL_STATE.IMPACT
PRINT DATE: 7/16/2023 8:34 AM
PLOT SCALE: AS NOTED
STANDARD PEN TABLE: YES

No.	Revisions	Date	By



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STRUCTURES**

National Railroad Passenger Corporation
30th Street Station, Philadelphia, Pennsylvania 19104

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ENVIRONMENTAL PERMIT PLANS
PLAN DATE: MAY 2, 2023



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ENGINEERING
1501 Broadway New York, NY 10036

wsp 1700 Market St. Suite 1050
Philadelphia, PA 19103

OLD SAYBROOK CONNECTICUT

**REPLACEMENT OF MB 106.89
OVER CONNECTICUT RIVER**

CJL STATE IMPACT PLAN

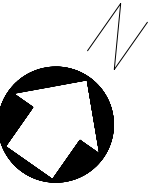
Designed CB Drawn CB/MD Checked KM Date 5/2/2023

Project Code: XXX XXX
WBS:
Sheet No. 43 OF 140
Dwg. No. CJL-02

MATCHLINE DWG CJL-03

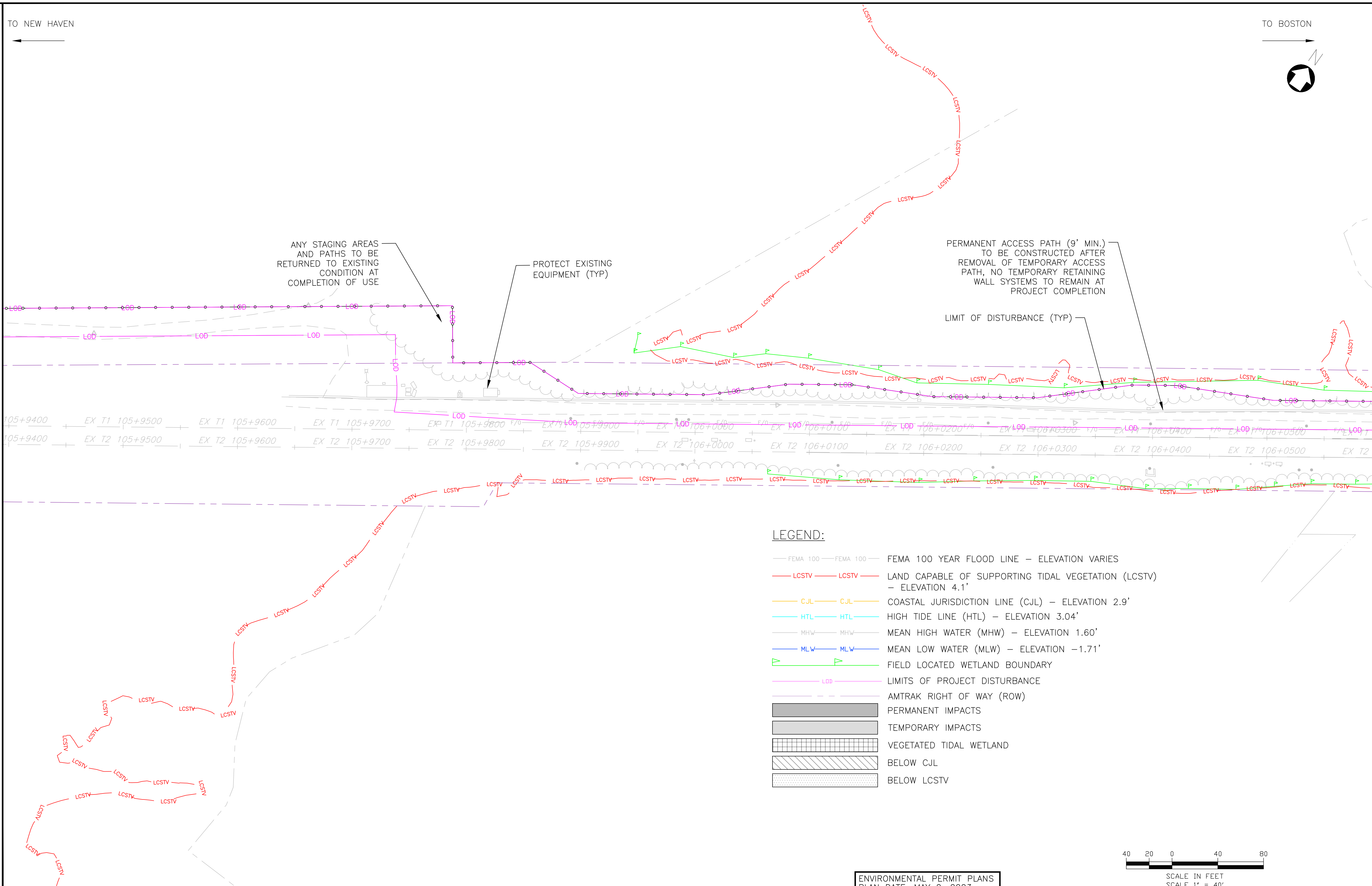
TO NEW HAVEN

TO BOSTON



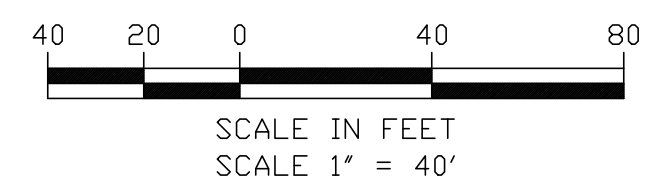
MATCHLINE DWG CJL-02

MATCHLINE DWG CJL-04



LEGEND:

- FEMA 100 — FEMA 100 — FEMA 100 YEAR FLOOD LINE — ELEVATION VARIES
- LCSTV — LCSTV — LAND CAPABLE OF SUPPORTING TIDAL VEGETATION (LCSTV) — ELEVATION 4.1'
- CJL — CJL — COASTAL JURISDICTION LINE (CJL) — ELEVATION 2.9'
- HTL — HTL — HIGH TIDE LINE (HTL) — ELEVATION 3.04'
- MHW — MHW — MEAN HIGH WATER (MHW) — ELEVATION 1.60'
- MLW — MLW — MEAN LOW WATER (MLW) — ELEVATION -1.71'
- FIELD LOCATED WETLAND BOUNDARY
- LOD — LIMITS OF PROJECT DISTURBANCE
- AMTRAK RIGHT OF WAY (ROW)
- PERMANENT IMPACTS
- TEMPORARY IMPACTS
- VEGETATED TIDAL WETLAND
- BELOW CJL
- BELOW LCSTV



ENVIRONMENTAL PERMIT PLANS
PLAN DATE: MAY 2, 2023

No.	Revisions	Date	By



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STRUCTURES
National Railroad Passenger Corporation
30th Street Station, Philadelphia, Pennsylvania 19104

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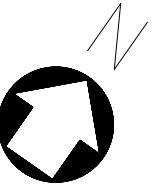
OLD SAYBROOK CONNECTICUT
**REPLACEMENT OF MB 106.89
OVER CONNECTICUT RIVER**
CJL STATE IMPACT PLAN
Designed CB Drawn CB/MD Checked KM Date 5/2/2023

Project Code: XXX XXX
WBS:
Sheet No. 44 OF 140
Dwg. No. **CJL-03**

FILE NAME: 21700A_IMPACT_ACTIVITY_3_CJL_STATE.DWG
PRINT DATE: 7/18/2023 8:34 AM
PLOT SCALE: AS NOTED
STANDARD PEN TABLE: YES

TO NEW HAVEN

TO BOSTON



PERMANENT ACCESS PATH (9' MIN.) TO BE CONSTRUCTED AFTER REMOVAL OF TEMPORARY ACCESS PATH, NO TEMPORARY RETAINING WALL SYSTEMS TO REMAIN AT PROJECT COMPLETION

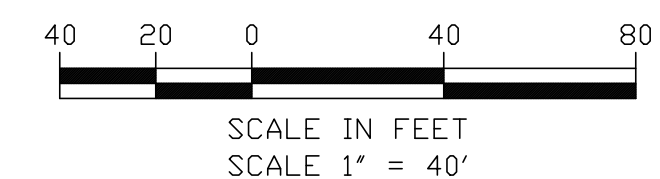
EXISTING SURFACE GRADES AND SURFACE TYPES (INCLUDING RIPRAP AND GRAVEL) TO BE RESTORED AT PROJECT COMPLETION (TYP.)

EXIST TRACK 2
EXIST TRACK 1

PROP TRACK 1
PROP TRACK 2
WESTERN LIMIT OF GRADING WORK
EMBANKMENT SCOUR PROTECTION
LIMIT OF DISTURBANCE (TYP)

EXISTING SURFACE GRADES AND SURFACE TYPES (INCLUDING PLANTINGS) TO BE RESTORED AT PROJECT COMPLETION (TYP.)

ENVIRONMENTALLY SENSITIVE AREA. GROUND DISTURBANCES IN THIS AREA SHALL BE AVOIDED UNLESS SUBMITTED TO THE ENGINEER AND APPROVED. WHERE PERMITTED, PROPOSED GROUND DISTURBANCES SHALL NOT EXCEED 2 FEET IN DEPTH.



MATCHLINE DWG CJL-03

MATCHLINE DWG CJL-05

LEGEND:

- FEMA 100 — FEMA 100 — FEMA 100 YEAR FLOOD LINE — ELEVATION VARIES
 - LCSTV — LCSTV — LAND CAPABLE OF SUPPORTING TIDAL VEGETATION (LCSTV) — ELEVATION 4.1'
 - CJL — CJL — COASTAL JURISDICTION LINE (CJL) — ELEVATION 2.9'
 - HTL — HTL — HIGH TIDE LINE (HTL) — ELEVATION 3.04'
 - MHW — MHW — MEAN HIGH WATER (MHW) — ELEVATION 1.60'
 - MLW — MLW — MEAN LOW WATER (MLW) — ELEVATION -1.71'
 - P — P — FIELD LOCATED WETLAND BOUNDARY
 - LOD — LOD — LIMITS OF PROJECT DISTURBANCE
 - — — — — AMTRAK RIGHT OF WAY (ROW)
- PERMANENT IMPACTS
 - TEMPORARY IMPACTS
 - VEGETATED TIDAL WETLAND
 - BELOW CJL
 - BELOW LCSTV

FILE NAME: 21700A-IMPACT_ACTIVITY_3_CJL_STATE.DWG
PRINT DATE/TIME: 6/29/2023 8:34 AM
PLOT SCALE: AS NOTED
STANDARD PEN TABLE: YES

No.	Revisions	Date	By



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STRUCTURES
National Railroad Passenger Corporation
30th Street Station, Philadelphia, Pennsylvania 19104

Approved	Date



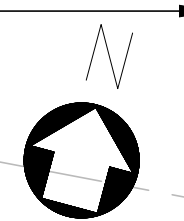
HARDESTY & HANOVER, LLC
ENGINEERING
1501 Broadway New York, NY 10036
wsp 1700 Market St. Suite 1050
Philadelphia, PA 19103

REPLACEMENT OF MB 106.89
OVER CONNECTICUT RIVER
CJL STATE IMPACT PLAN
Designed CB Drawn CB/MD Checked KM Date 5/2/2023

Project Code: XXX XXX
WBS:
Sheet No. 45 OF 140
Dwg. No. **CJL-04**

TO NEW HAVEN

TO BOSTON



PERMANENT ACCESS PATH (9' MIN.) TO BE CONSTRUCTED AFTER THE REMOVAL OF TEMPORARY ACCESS PATH; NO TEMPORARY RETAINING WALL SYSTEMS TO REMAIN AT PROJECT COMPLETION

PERMANENT 12' WIDE ACCESS PATH
SIGNAL HOUSE LOCATION A

EXISTING SURFACE GRADES AND SURFACE TYPES (INCLUDING RIPRAP AND GRAVEL) TO BE RESTORED AT PROJECT COMPLETION (TYP.)

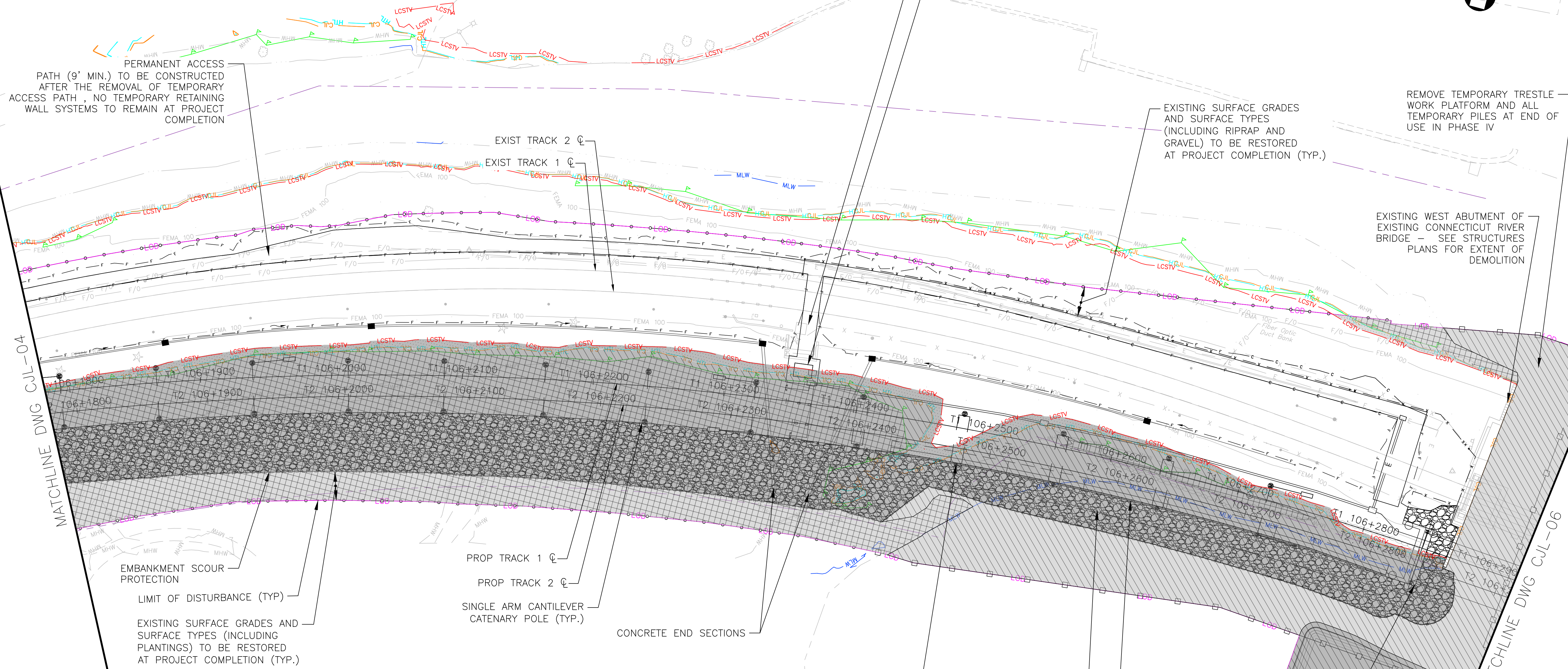
REMOVE TEMPORARY TRESTLE WORK PLATFORM AND ALL TEMPORARY PILES AT END OF USE IN PHASE IV

EXISTING WEST ABUTMENT OF EXISTING CONNECTICUT RIVER BRIDGE - SEE STRUCTURES PLANS FOR EXTENT OF DEMOLITION

FLOOD
↑
EBB
↓

MATCHLINE DWG CJL-04

MATCHLINE DWG CJL-06



EMBANKMENT SCOUR PROTECTION
LIMIT OF DISTURBANCE (TYP.)

EXISTING SURFACE GRADES AND SURFACE TYPES (INCLUDING PLANTINGS) TO BE RESTORED AT PROJECT COMPLETION (TYP.)

PROP TRACK 1
PROP TRACK 2
SINGLE ARM CANTILEVER CATENARY POLE (TYP.)

CONCRETE END SECTIONS

DOUBLE ARM CANTILEVER CATENARY POLE (TYP.)

WEST RETAINING WALL

WALL SCOUR PROTECTION

WEST ABUTMENT FOR NEW CONNECTICUT RIVER BRIDGE
DREDGE AREA FOR CONSTRUCTION BARGES SHALL REMAIN POST CONSTRUCTION

LEGEND:

- FEMA 100 — FEMA 100 — FEMA 100 YEAR FLOOD LINE - ELEVATION VARIES
- LCSTV — LCSTV — LAND CAPABLE OF SUPPORTING TIDAL VEGETATION (LCSTV) - ELEVATION 4.1'
- CJL — CJL — COASTAL JURISDICTION LINE (CJL) - ELEVATION 2.9'
- HTL — HTL — HIGH TIDE LINE (HTL) - ELEVATION 3.04'
- MHW — MHW — MEAN HIGH WATER (MHW) - ELEVATION 1.60'
- MLW — MLW — MEAN LOW WATER (MLW) - ELEVATION -1.71'
- FLD — FLD — FIELD LOCATED WETLAND BOUNDARY
- LOD — LOD — LIMITS OF PROJECT DISTURBANCE
- ROW — ROW — AMTRAK RIGHT OF WAY (ROW)

- PERMANENT IMPACTS
- TEMPORARY IMPACTS
- VEGETATED TIDAL WETLAND
- BELOW CJL
- BELOW LCSTV



SCALE IN FEET
SCALE 1" = 40'

FILE NAME: 212004-IMPACT_ACTIVITY_3_CJL_STATE.DWG
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STANDARD PEN TABLE: YES

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STRUCTURES
National Railroad Passenger Corporation
30th Street Station, Philadelphia, Pennsylvania 19104

Approved	Date



ENVIRONMENTAL PERMIT PLANS
PLAN DATE: MAY 2, 2023

HARDESTY & HANOVER, LLC
ENGINEERING
1501 Broadway New York, NY 10036
wsp 1700 Market St. Suite 1050
Philadelphia, PA 19103

OLD SAYBROOK CONNECTICUT

**REPLACEMENT OF MB 106.89
OVER CONNECTICUT RIVER**

CJL STATE IMPACT PLAN

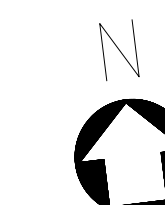
Designed CB Drawn CB/MD Checked KM Date 5/2/2023

Project Code: XXX XXX
WBS:
Sheet No. 46 OF 140
Dwg. No. CJL-05

TO NEW HAVEN

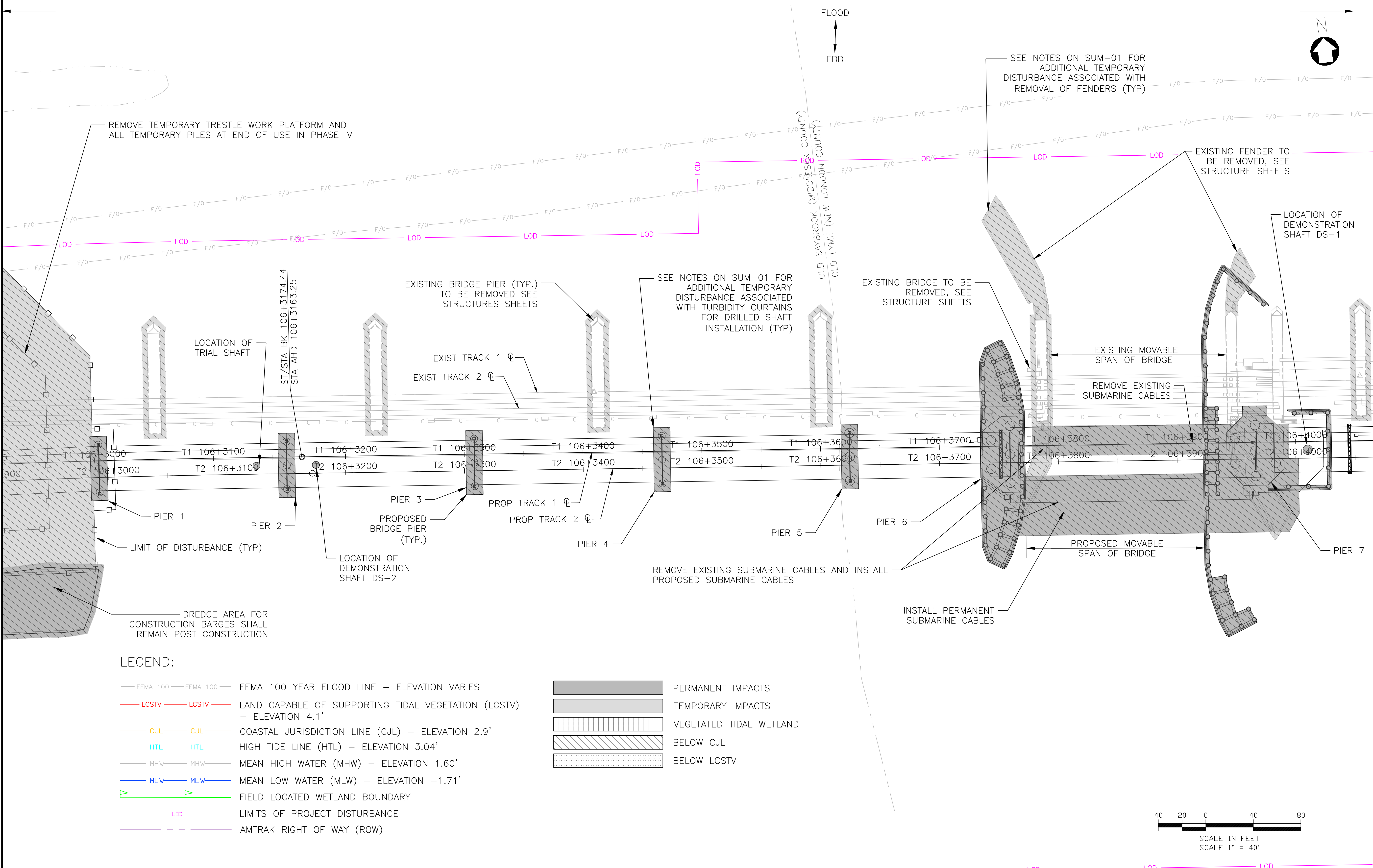
TO BOSTON

FLOOD
↑
EBB
↓



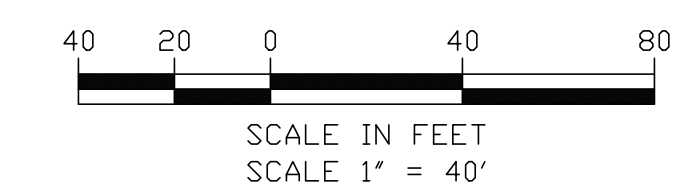
MATCHLINE DWG CJL-05

MATCHLINE DWG CJL-07



LEGEND:

- FEMA 100 — FEMA 100 — FEMA 100 YEAR FLOOD LINE — ELEVATION VARIES
 - LCSTV — LCSTV — LAND CAPABLE OF SUPPORTING TIDAL VEGETATION (LCSTV) — ELEVATION 4.1'
 - CJL — CJL — COASTAL JURISDICTION LINE (CJL) — ELEVATION 2.9'
 - HTL — HTL — HIGH TIDE LINE (HTL) — ELEVATION 3.04'
 - MHW — MHW — MEAN HIGH WATER (MHW) — ELEVATION 1.60'
 - MLW — MLW — MEAN LOW WATER (MLW) — ELEVATION -1.71'
 - FIELD LOCATED WETLAND BOUNDARY
 - LOD — LIMITS OF PROJECT DISTURBANCE
 - AMTRAK RIGHT OF WAY (ROW)
- [Solid Grey Box] PERMANENT IMPACTS
 - [Light Grey Box] TEMPORARY IMPACTS
 - [Grid Pattern Box] VEGETATED TIDAL WETLAND
 - [Diagonal Lines Box] BELOW CJL
 - [Dotted Box] BELOW LCSTV



ENVIRONMENTAL PERMIT PLANS
PLAN DATE: MAY 2, 2023

FILE NAME: 217004-IMPACT_ACTIVITY_3_CJL_STATE.DWG
PRINT DATE: 7/18/2023 8:35 AM
PLOT SCALE: AS NOTED
STANDARD PEN TABLE: YES

No.	Revisions	Date	By

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Office of Chief Engineer
STRUCTURES
National Railroad Passenger Corporation
30th Street Station, Philadelphia, Pennsylvania 19104

Approved	Date



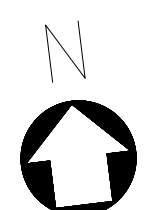
HARDESTY & HANOVER, LLC
ENGINEERING
1501 Broadway New York, NY 10036
1700 Market St. Suite 1050
Philadelphia, PA 19103

OLD SAYBROOK CONNECTICUT
**REPLACEMENT OF MB 106.89
OVER CONNECTICUT RIVER**
CJL STATE IMPACT PLAN
Designed CB Drawn CB/MD Checked KM Date 5/2/2023

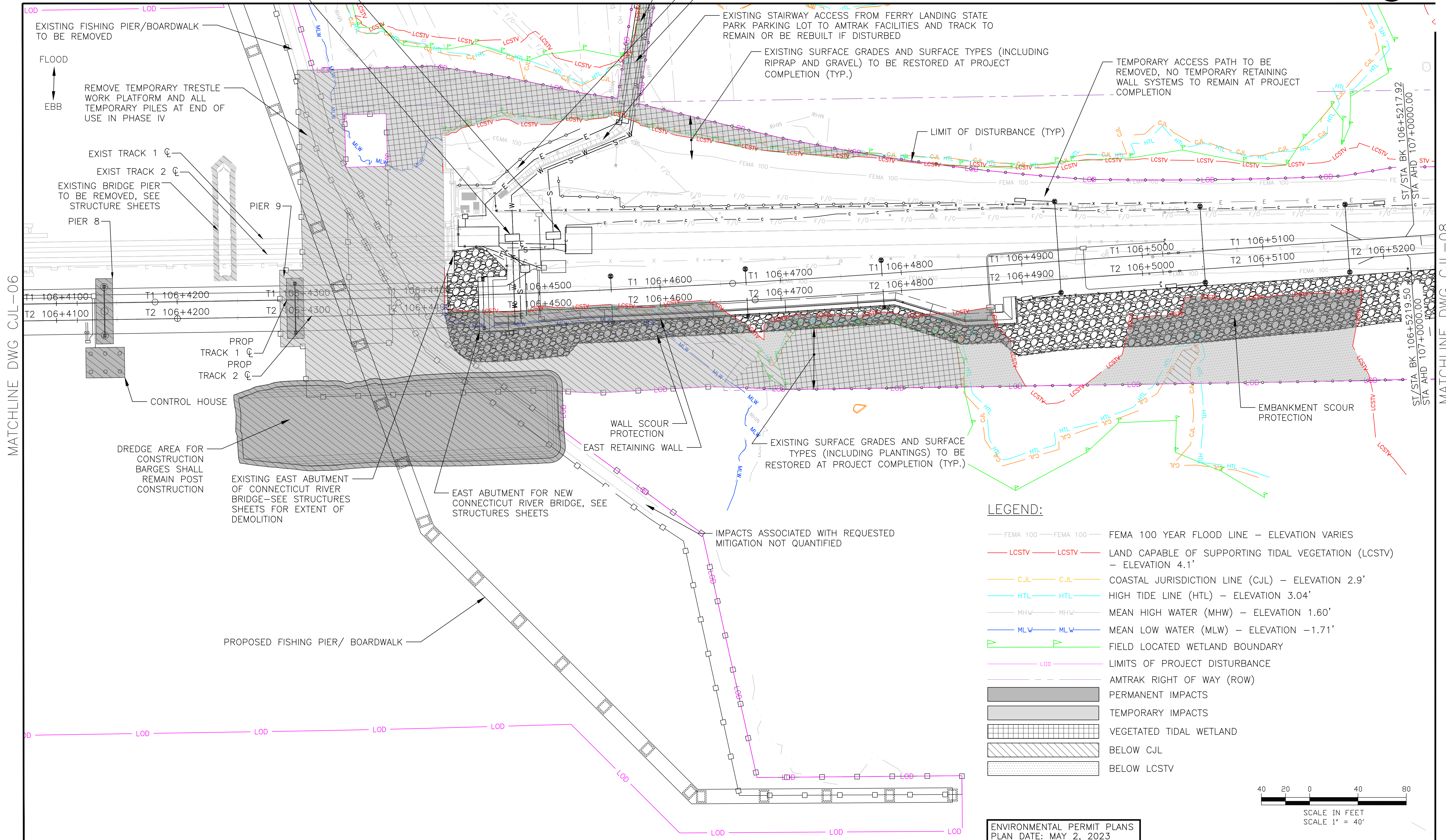
Project Code: XXX XXX
WBS:
Sheet No. 47 OF 140
Dwg. No. **CJL-06**

TO NEW HAVEN

TO BOSTON

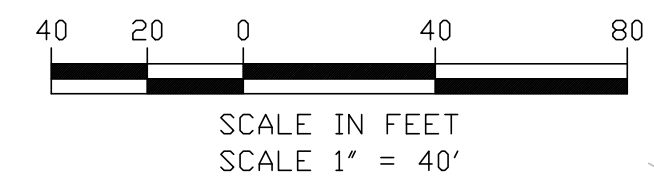


MATCHLINE DWG CJL-12



LEGEND:

- FEMA 100 — FEMA 100 — FEMA 100 YEAR FLOOD LINE — ELEVATION VARIES
- LCSTV — LCSTV — LAND CAPABLE OF SUPPORTING TIDAL VEGETATION (LCSTV) — ELEVATION 4.1'
- CJL — CJL — COASTAL JURISDICTION LINE (CJL) — ELEVATION 2.9'
- HTL — HTL — HIGH TIDE LINE (HTL) — ELEVATION 3.04'
- MHW — MHW — MEAN HIGH WATER (MHW) — ELEVATION 1.60'
- MLW — MLW — MEAN LOW WATER (MLW) — ELEVATION -1.71'
- FIELD LOCATED WETLAND BOUNDARY
- LOD — LIMITS OF PROJECT DISTURBANCE
- AMTRAK RIGHT OF WAY (ROW)
- PERMANENT IMPACTS
- TEMPORARY IMPACTS
- VEGETATED TIDAL WETLAND
- BELOW CJL
- BELOW LCSTV



ENVIRONMENTAL PERMIT PLANS
PLAN DATE: MAY 2, 2023

FILE NAME: 212004-IMPACT_ACTIVITY_3_CJL_STATE.DWG
PRINT DATE/TIME: 6/29/2023 8:35 AM
PLOT SCALE: AS NOTED
STANDARD PEN TABLE: YES

No.	Revisions	Date	By



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STRUCTURES
National Railroad Passenger Corporation
30th Street Station, Philadelphia, Pennsylvania 19104

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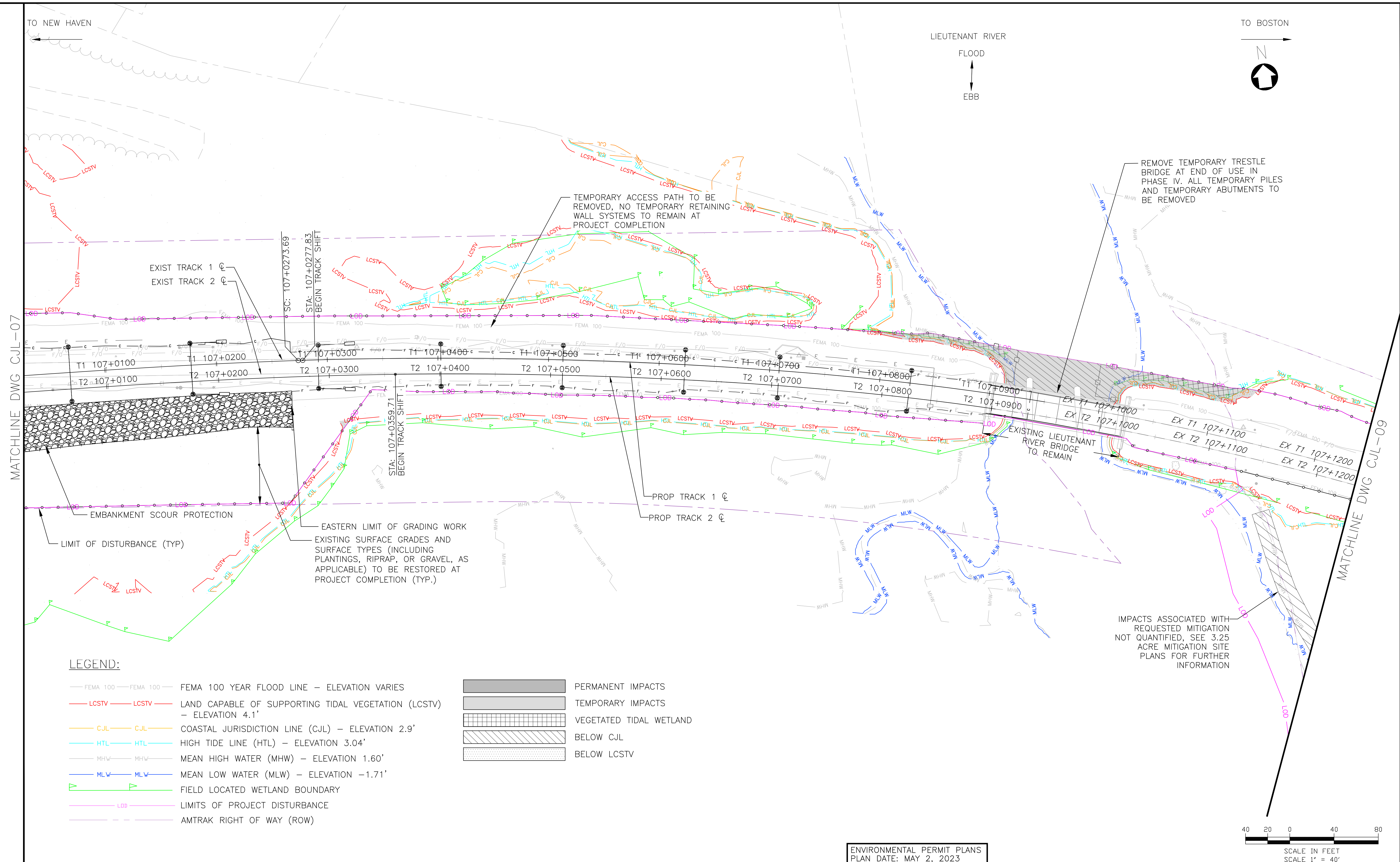
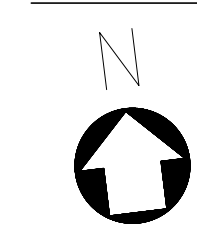
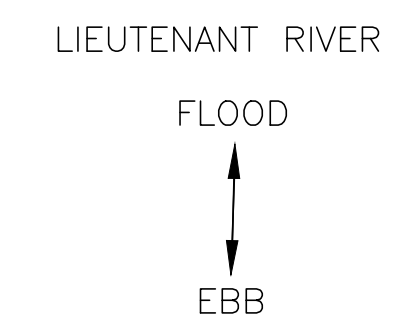
HARDESTY & HANOVER, LLC
ENGINEERING
1501 Broadway New York, NY 10036
wsp 1700 Market St. Suite 1050
Philadelphia, PA 19103

OLD SAYBROOK CONNECTICUT
**REPLACEMENT OF MB 106.89
OVER CONNECTICUT RIVER**
CJL STATE IMPACT PLAN
Designed CB Drawn CB/MD Checked KM Date 5/2/2023

Project Code: XXX XXX
WBS:
Sheet No. 48 OF 140
Dwg. No. **CJL-07**

TO NEW HAVEN

TO BOSTON



EXIST TRACK 1 ☐
EXIST TRACK 2 ☐

TEMPORARY ACCESS PATH TO BE REMOVED, NO TEMPORARY RETAINING WALL SYSTEMS TO REMAIN AT PROJECT COMPLETION

REMOVE TEMPORARY TRESTLE BRIDGE AT END OF USE IN PHASE IV. ALL TEMPORARY PILES AND TEMPORARY ABUTMENTS TO BE REMOVED

EXISTING LIEUTENANT RIVER BRIDGE TO REMAIN

EASTERN LIMIT OF GRADING WORK
EXISTING SURFACE GRADES AND SURFACE TYPES (INCLUDING PLANTINGS, RIPRAP, OR GRAVEL, AS APPLICABLE) TO BE RESTORED AT PROJECT COMPLETION (TYP.)

IMPACTS ASSOCIATED WITH REQUESTED MITIGATION NOT QUANTIFIED, SEE 3.25 ACRE MITIGATION SITE PLANS FOR FURTHER INFORMATION

LEGEND:

- FEMA 100 — FEMA 100 — FEMA 100 YEAR FLOOD LINE — ELEVATION VARIES
 - LCSTV — LCSTV — LAND CAPABLE OF SUPPORTING TIDAL VEGETATION (LCSTV) — ELEVATION 4.1'
 - CJL — CJL — COASTAL JURISDICTION LINE (CJL) — ELEVATION 2.9'
 - HTL — HTL — HIGH TIDE LINE (HTL) — ELEVATION 3.04'
 - MHW — MHW — MEAN HIGH WATER (MHW) — ELEVATION 1.60'
 - MLW — MLW — MEAN LOW WATER (MLW) — ELEVATION -1.71'
 - FLD — FLD — FIELD LOCATED WETLAND BOUNDARY
 - LOD — LOD — LIMITS OF PROJECT DISTURBANCE
 - ROW — ROW — AMTRAK RIGHT OF WAY (ROW)
- PERMANENT IMPACTS
 - TEMPORARY IMPACTS
 - VEGETATED TIDAL WETLAND
 - BELOW CJL
 - BELOW LCSTV



ENVIRONMENTAL PERMIT PLANS
PLAN DATE: MAY 2, 2023

No.	Revisions	Date	By



Office of Chief Engineer
STRUCTURES
National Railroad Passenger Corporation
30th Street Station, Philadelphia, Pennsylvania 19104

Approved	Date



HARDESTY & HANOVER, LLC
ENGINEERING
1501 Broadway New York, NY 10036
1700 Market St. Suite 1050
Philadelphia, PA 19103

DESIGNED	CB	DRAWN	CB/MD	CHECKED	KM	DATE	5/2/2023
Project Code: XXX XXX							
WBS:							
Sheet No. 49 OF 140							
Dwg. No. CJL-08							

FILE NAME: 21700A_IMPACT_ACTIVITY_3_CJL_STATE.DWG
PRINT DATE/TIME: 5/2/2023 8:35 AM
PLOT SCALE: AS NOTED
STANDARD PEN TABLE: YES

TO NEW HAVEN

TO BOSTON

MATCHLINE DWG CJL-11

MATCHLINE DWG CJL-11

TEMPORARY ACCESS PATH TO BE REMOVED, NO TEMPORARY RETAINING WALL SYSTEMS TO REMAIN AT PROJECT COMPLETION

EXISTING SURFACE GRADES AND SURFACE TYPES (INCLUDING PLANTINGS, RIPRAP, OR GRAVEL, AS APPLICABLE) TO BE RESTORED AT PROJECT COMPLETION (TYP.)

EXIST TRACK 1
EXIST TRACK 2

LIMIT OF DISTURBANCE (TYP)

8'-0" CHAIN LINK FENCE 1' INBOUND FROM ROW TO COMPLY WITH MOA ON HISTORIC SITES

STA: 107+2143.98
END RESURFACING

POE: 107+2343.98

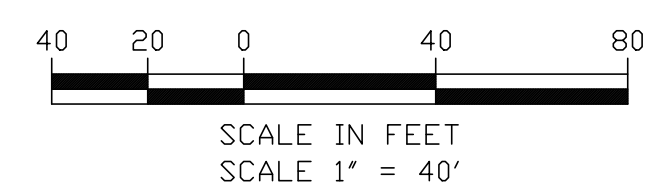
MATCHLINE DWG CJL-10

MATCHLINE DWG CJL-08

LEGEND:

- FEMA 100 — FEMA 100 — FEMA 100 YEAR FLOOD LINE — ELEVATION VARIES
- LCSTV — LCSTV — LAND CAPABLE OF SUPPORTING TIDAL VEGETATION (LCSTV) — ELEVATION 4.1'
- CJL — CJL — COASTAL JURISDICTION LINE (CJL) — ELEVATION 2.9'
- HTL — HTL — HIGH TIDE LINE (HTL) — ELEVATION 3.04'
- MHW — MHW — MEAN HIGH WATER (MHW) — ELEVATION 1.60'
- MLW — MLW — MEAN LOW WATER (MLW) — ELEVATION -1.71'
- FIELD LOCATED WETLAND BOUNDARY
- LOD — LIMITS OF PROJECT DISTURBANCE
- AMTRAK RIGHT OF WAY (ROW)
- PERMANENT IMPACTS
- TEMPORARY IMPACTS
- VEGETATED TIDAL WETLAND
- BELOW CJL
- BELOW LCSTV

IMPACTS ASSOCIATED WITH REQUESTED MITIGATION NOT QUANTIFIED, SEE 3.25 ACRE MITIGATION SITE PLANS FOR FURTHER INFORMATION



ENVIRONMENTAL PERMIT PLANS
PLAN DATE: MAY 2, 2023

No.	Revisions	Date	By

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Office of Chief Engineer
STRUCTURES

National Railroad Passenger Corporation
30th Street Station, Philadelphia, Pennsylvania 19104

Approved	Date



HARDESTY & HANOVER, LLC
ENGINEERING
1501 Broadway New York, NY 10036

wsp 1700 Market St. Suite 1050
Philadelphia, PA 19103

OLD SAYBROOK CONNECTICUT

**REPLACEMENT OF MB 106.89
OVER CONNECTICUT RIVER**

CJL STATE IMPACT PLAN

Designed CB Drawn CB/MD Checked KM Date 5/2/2023

Project Code: XXX XXX

WBS:

Sheet No. 50 OF 140

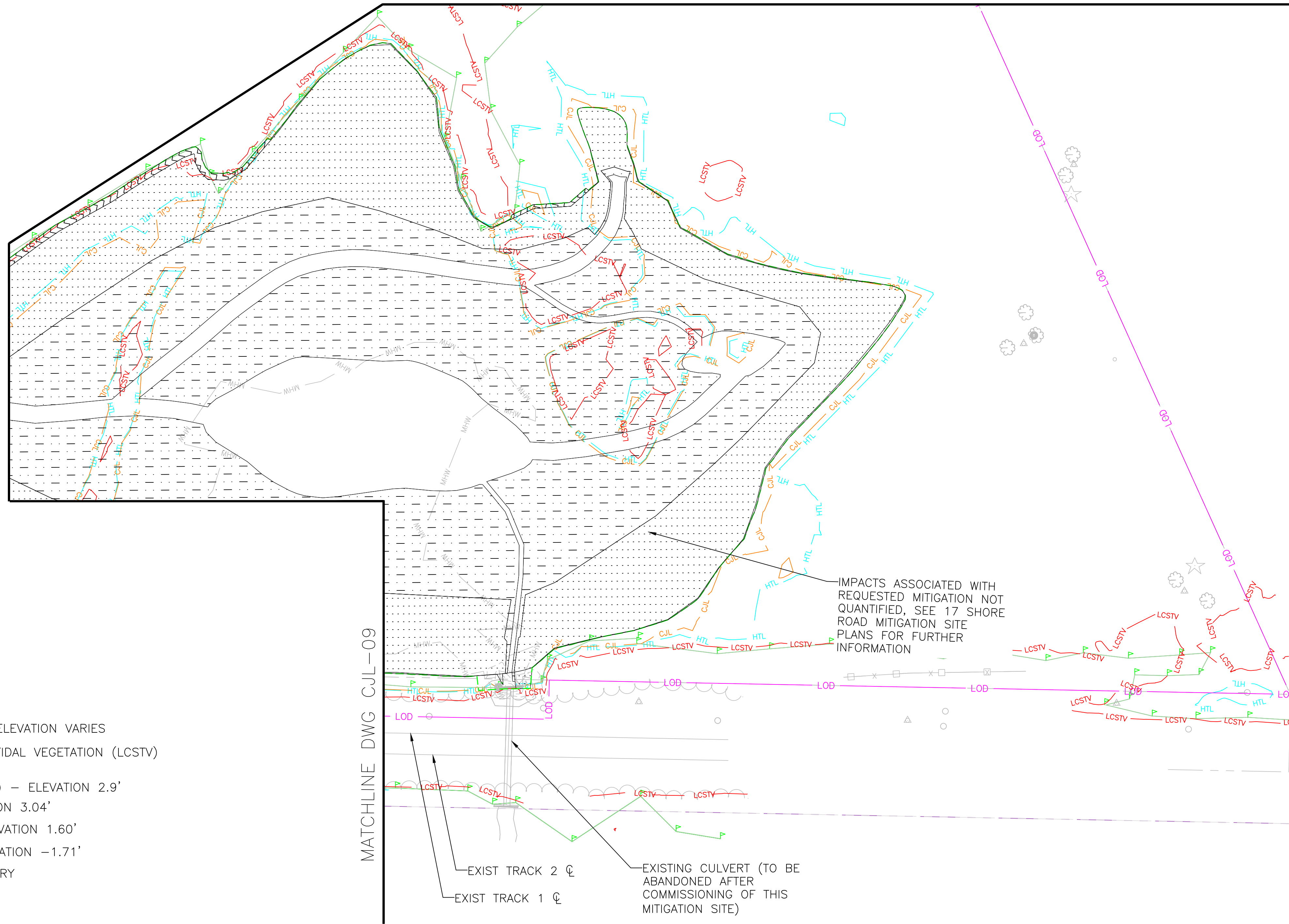
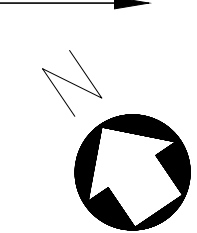
Dwg. No. **CJL-09**

FILE NAME: 212006_IMPACT_ACTIVITY_3_CJL_STATE.DWG
PRINT DATE/TIME: 5/2/2023 8:36 AM
PLOT SCALE: AS NOTED
STANDARD PEN TABLE: YES

TO NEW HAVEN

TO BOSTON

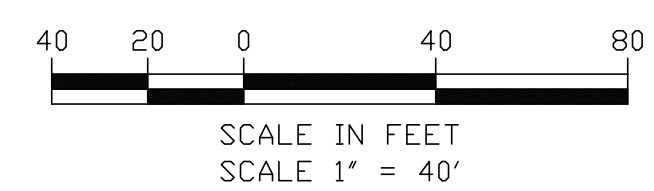
MATCHLINE DWG CJL-11



LEGEND:

- FEMA 100 — FEMA 100 — FEMA 100 YEAR FLOOD LINE — ELEVATION VARIES
- LCSTV — LCSTV — LAND CAPABLE OF SUPPORTING TIDAL VEGETATION (LCSTV) — ELEVATION 4.1'
- CJL — CJL — COASTAL JURISDICTION LINE (CJL) — ELEVATION 2.9'
- HTL — HTL — HIGH TIDE LINE (HTL) — ELEVATION 3.04'
- MHW — MHW — MEAN HIGH WATER (MHW) — ELEVATION 1.60'
- MLW — MLW — MEAN LOW WATER (MLW) — ELEVATION -1.71'
- FIELD LOCATED WETLAND BOUNDARY
- LOD — LOD — LIMITS OF PROJECT DISTURBANCE
- — — AMTRAK RIGHT OF WAY (ROW)
- PERMANENT IMPACTS
- TEMPORARY IMPACTS
- VEGETATED TIDAL WETLAND
- BELOW CJL
- BELOW LCSTV

MATCHLINE DWG CJL-09



ENVIRONMENTAL PERMIT PLANS
PLAN DATE: MAY 2, 2023

No.	Revisions	Date	By



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STRUCTURES
National Railroad Passenger Corporation
30th Street Station, Philadelphia, Pennsylvania 19104

Approved	Date



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1501 Broadway New York, NY 10036
wsp 1700 Market St. Suite 1050
Philadelphia, PA 19103

OLD SAYBROOK CONNECTICUT
**REPLACEMENT OF MB 106.89
OVER CONNECTICUT RIVER**
CJL STATE IMPACT PLAN
Designed CB Drawn CB/MD Checked KM Date 5/2/2023

Project Code: XXX XXX
WBS:
Sheet No. 51 OF 140
Dwg. No. **CJL-10**

FILE NAME: 217006_IMPACT_ACTIVITY_3_CJL_STATE.DWG
PRINT DATE: 7/18/2023 8:36 AM
PLOT SCALE: AS NOTED
STANDARD PEN TABLE: YES

TO NEW HAVEN

TO BOSTON



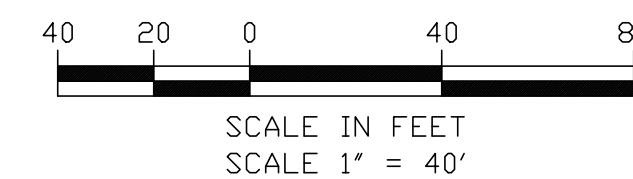
IMPACTS ASSOCIATED WITH REQUESTED MITIGATION NOT QUANTIFIED, SEE 17 SHORE ROAD MITIGATION SITE PLANS FOR FURTHER INFORMATION

MATCHLINE DWG CJL-10

MATCHLINE DWG CJL-09

LEGEND:

- FEMA 100 — FEMA 100 — FEMA 100 YEAR FLOOD LINE — ELEVATION VARIES
- LCSTV — LCSTV — LAND CAPABLE OF SUPPORTING TIDAL VEGETATION (LCSTV) — ELEVATION 4.1'
- CJL — CJL — COASTAL JURISDICTION LINE (CJL) — ELEVATION 2.9'
- HTL — HTL — HIGH TIDE LINE (HTL) — ELEVATION 3.04'
- MHW — MHW — MEAN HIGH WATER (MHW) — ELEVATION 1.60'
- MLW — MLW — MEAN LOW WATER (MLW) — ELEVATION -1.71'
- FIELD LOCATED WETLAND BOUNDARY
- LOD — LOD — LIMITS OF PROJECT DISTURBANCE
- AMTRAK RIGHT OF WAY (ROW)
- PERMANENT IMPACTS
- TEMPORARY IMPACTS
- VEGETATED TIDAL WETLAND
- BELOW CJL
- BELOW LCSTV



ENVIRONMENTAL PERMIT PLANS
PLAN DATE: MAY 2, 2023

No.	Revisions	Date	By



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National Railroad Passenger Corporation
30th Street Station, Philadelphia, Pennsylvania 19104

Approved	Date



HARDESTY & HANOVER, LLC
ENGINEERING
1501 Broadway New York, NY 10036
1700 Market St. Suite 1050
Philadelphia, PA 19103

DESIGNED		DRAWN		CHECKED		DATE	
Project Code: XXX XXX WBS: Sheet No. 52 OF 140 Dwg. No. CJL-11							
REPLACEMENT OF MB 106.89 OVER CONNECTICUT RIVER CJL STATE IMPACT PLAN							

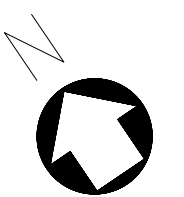
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PRINT DATE: 7/16/2023 8:36 AM
PLOT SCALE: AS NOTED
STANDARD PEN TABLE: YES

TO NEW HAVEN

TO BOSTON

LEGEND:

- FEMA 100 — FEMA 100 — FEMA 100 YEAR FLOOD LINE — ELEVATION VARIES
- LCSTV — LCSTV — LAND CAPABLE OF SUPPORTING TIDAL VEGETATION (LCSTV) — ELEVATION 4.1'
- CJL — CJL — COASTAL JURISDICTION LINE (CJL) — ELEVATION 2.9'
- HTL — HTL — HIGH TIDE LINE (HTL) — ELEVATION 3.04'
- MHW — MHW — MEAN HIGH WATER (MHW) — ELEVATION 1.60'
- MLW — MLW — MEAN LOW WATER (MLW) — ELEVATION -1.71'
- P — P — FIELD LOCATED WETLAND BOUNDARY
- LOD — LOD — LIMITS OF PROJECT DISTURBANCE
- — — AMTRAK RIGHT OF WAY (ROW)
- PERMANENT IMPACTS
- TEMPORARY IMPACTS
- VEGETATED TIDAL WETLAND
- BELOW CJL
- BELOW LCSTV



FERRY LANDING STATE PARK
CTDEEP MARINE HEADQUARTERS

AREA NOT AVAILABLE FOR CONTRACTOR USE, LIMIT OF DISTURBANCE FOR INSTALLATION OF MITIGATION MEASURES DURING PHASE IV

CL&P POLE NO. 4236 TO REMAIN
CL&P TRANSFORMER FOR BRIDGE
DISCONNECT SWITCH AND METERING EQUIPMENT

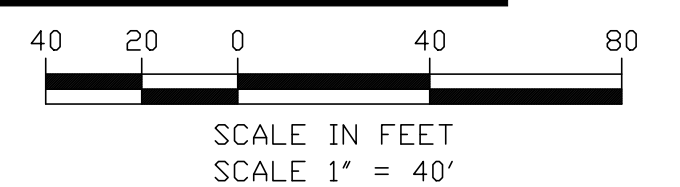
EXISTING CL&P TRANSFORMER FOR BRIDGE TO REMAIN UNTIL EXISTING BRIDGE IS DEMOLISHED

DRY WATER LINE FROM TANK TO WATER FILL PORT IN CTDEEP PARKING LOT

DRY SANITARY LINE FROM TANK TO SANITARY WASTE COLLECTION PORT IN CTDEEP PARKING LOT

#3-4" CONDUIT IN TRENCH

MATCHLINE DWG CJL-07



FILE NAME: 217004-IMPACT_ACTIVITY_3_CJL_STATE.DWG
PRINT DATE: 7/18/2023 8:36 AM
PLOT SCALE: AS NOTED
STANDARD PEN TABLE: YES

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STRUCTURES

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30th Street Station, Philadelphia, Pennsylvania 19104

Approved	Date



ENVIRONMENTAL PERMIT PLANS
PLAN DATE: MAY 2, 2023

HARDESTY & HANOVER, LLC
ENGINEERING
1501 Broadway New York, NY 10036

wsp 1700 Market St. Suite 1050
Philadelphia, PA 19103

OLD SAYBROOK		CONNECTICUT	
REPLACEMENT OF MB 106.89 OVER CONNECTICUT RIVER			
CJL STATE IMPACT PLAN			
Designed	CB	Drawn	CB/MD
Checked	KM	Date	5/2/2023

Project Code:	XXX XXX
WBS:	
Sheet No.	53 OF 140
Dwg. No.	CJL-12

TO NEW HAVEN

TO BOSTON

LEGEND:

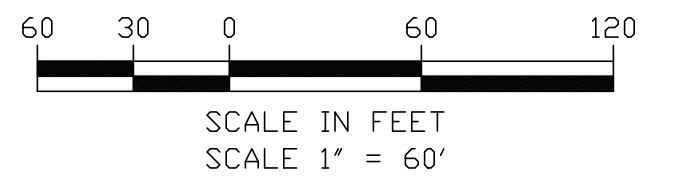
- FEMA 100 — FEMA 100 — FEMA 100 YEAR FLOOD LINE — ELEVATION VARIES
- LCSTV — LCSTV — LAND CAPABLE OF SUPPORTING TIDAL VEGETATION (LCSTV) — ELEVATION 4.1'
- CJL — CJL — COASTAL JURISDICTION LINE (CJL) — ELEVATION 2.9'
- HTL — HTL — HIGH TIDE LINE (HTL) — ELEVATION 3.04'
- MHW — MHW — MEAN HIGH WATER (MHW) — ELEVATION 1.60'
- MLW — MLW — MEAN LOW WATER (MLW) — ELEVATION -1.71'
- FIELD LOCATED WETLAND BOUNDARY
- LDD — LDD — LIMITS OF PROJECT DISTURBANCE
- AMTRAK RIGHT OF WAY (ROW)
- PERMANENT IMPACT BELOW HIGH TIDE LINE
- TEMPORARY IMPACT BELOW HIGH TIDE LINE

NOTES:

1. TEMPORARY AND PERMANENT ENCROACHMENT INTO REGULATED WETLANDS SHALL BE IN CONFORMANCE WITH WETLANDS PERMITS ISSUED FOR THE PROJECT. LIMITS OF TEMPORARY ENCROACHMENT SHALL BE DELINEATED WITH STAKES AND FLAGGING.

ANY STAGING AREAS AND PATHS TO BE RETURNED TO EXISTING CONDITION AT COMPLETION OF USE

MATCHLINE DWG HTL-02



FILE NAME: 217004-IMPACT_ACTIVITY_2_HTL.DWG
PRINT DATE: 7/18/2023 8:37 AM
PLOT SCALE: AS NOTED
STANDARD PEN TABLE: YES

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30th Street Station, Philadelphia, Pennsylvania 19104

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ENVIRONMENTAL PERMIT PLANS
PLAN DATE: MAY 2, 2023

HARDESTY & HANOVER, LLC
ENGINEERING
1501 Broadway New York, NY 10036

wsp 1700 Market St. Suite 1050
Philadelphia, PA 19103

OLD SAYBROOK		CONNECTICUT	
REPLACEMENT OF MB 106.89 OVER CONNECTICUT RIVER			
HIGH TIDE LINE IMPACT PLAN			
Designed	CB	Drawn	CB/MD
Checked	KM	Date	5/2/2023

Project Code:	XXX XXX
WBS:	
Sheet No.	54 OF 140
Dwg. No.	HTL-01

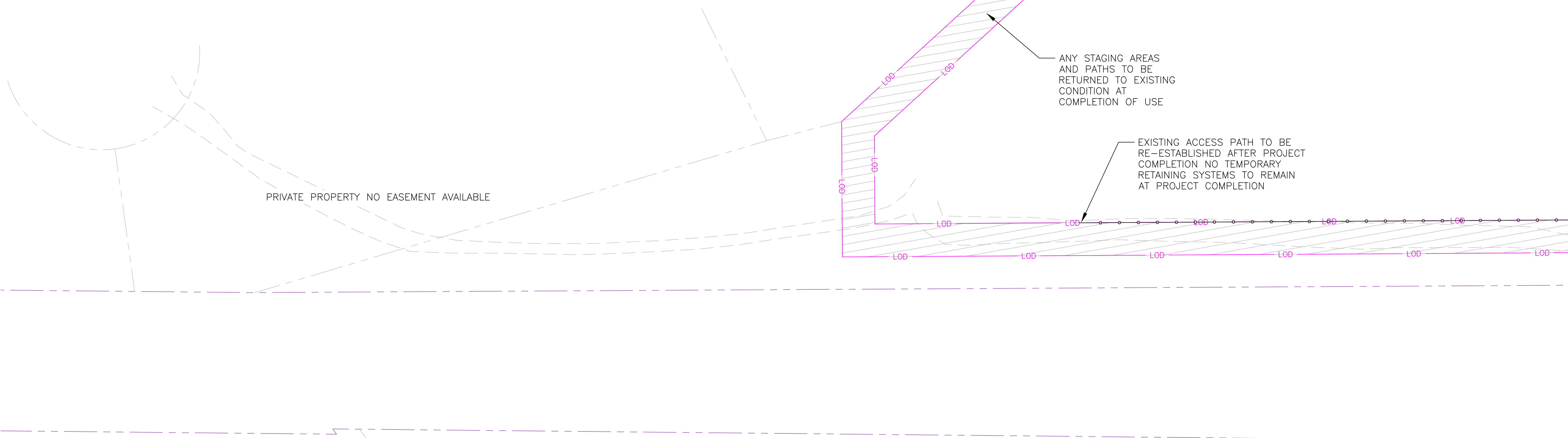
TO NEW HAVEN

TO BOSTON

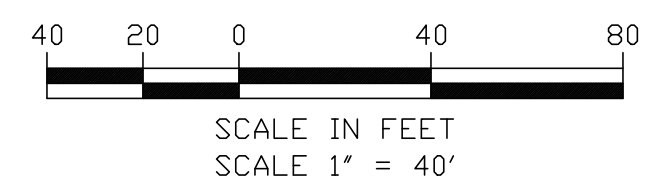
MATCHLINE DWG HTL-01

LEGEND:

- FEMA 100 — FEMA 100 — FEMA 100 YEAR FLOOD LINE — ELEVATION VARIES
- LCSTV — LCSTV — LAND CAPABLE OF SUPPORTING TIDAL VEGETATION (LCSTV) — ELEVATION 4.1'
- C.J.L. — C.J.L. — COASTAL JURISDICTION LINE (C.J.L.) — ELEVATION 2.9'
- HTL — HTL — HIGH TIDE LINE (HTL) — ELEVATION 3.04'
- M.H.W. — M.H.W. — MEAN HIGH WATER (M.H.W.) — ELEVATION 1.60'
- M.L.W. — M.L.W. — MEAN LOW WATER (M.L.W.) — ELEVATION -1.71'
- FIELD LOCATED WETLAND BOUNDARY
- LOD — LOD — LIMITS OF PROJECT DISTURBANCE
- AMTRAK RIGHT OF WAY (ROW)
- PERMANENT IMPACT BELOW HIGH TIDE LINE
- TEMPORARY IMPACT BELOW HIGH TIDE LINE



MATCHLINE DWG HTL-03



FILE NAME: 217004-IMPACT_ACTIVITY_2_HTL.DWG
PRINT DATE: 7/16/2023 8:38 AM
PLOT SCALE: AS NOTED
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National Railroad Passenger Corporation
30th Street Station, Philadelphia, Pennsylvania 19104

Approved	Date



ENVIRONMENTAL PERMIT PLANS
PLAN DATE: MAY 2, 2023

HARDESTY & HANOVER, LLC
ENGINEERING
1501 Broadway New York, NY 10036
1700 Market St. Suite 1050
Philadelphia, PA 19103

OLD SAYBROOK CONNECTICUT

**REPLACEMENT OF MB 106.89
OVER CONNECTICUT RIVER**

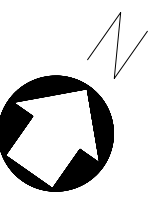
HIGH TIDE LINE IMPACT PLAN

Designed CB Drawn CB/MD Checked KM Date 5/2/2023

Project Code:	XXX XXX
WBS:	
Sheet No.:	55 OF 140
Dwg. No.:	HTL-02

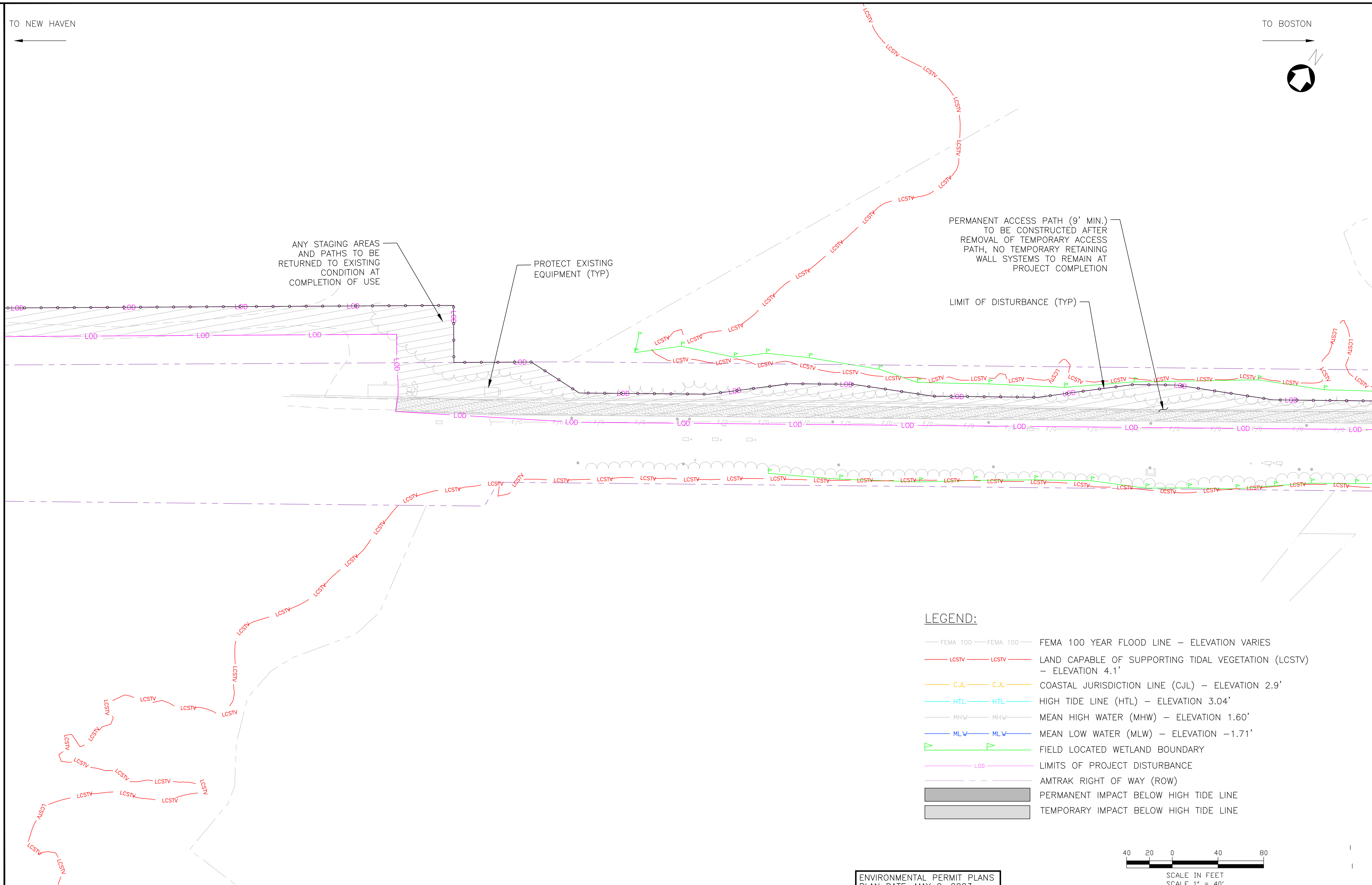
TO NEW HAVEN

TO BOSTON



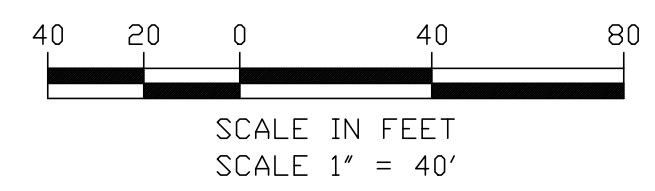
MATCHLINE HTL-02

MATCHLINE DWG HTL-04



LEGEND:

- FEMA 100 — FEMA 100 — FEMA 100 YEAR FLOOD LINE — ELEVATION VARIES
- LCSTV — LCSTV — LAND CAPABLE OF SUPPORTING TIDAL VEGETATION (LCSTV) — ELEVATION 4.1'
- CJL — CJL — COASTAL JURISDICTION LINE (CJL) — ELEVATION 2.9'
- HTL — HTL — HIGH TIDE LINE (HTL) — ELEVATION 3.04'
- MHW — MHW — MEAN HIGH WATER (MHW) — ELEVATION 1.60'
- MLW — MLW — MEAN LOW WATER (MLW) — ELEVATION -1.71'
- FLD — FLD — FIELD LOCATED WETLAND BOUNDARY
- LOD — LOD — LIMITS OF PROJECT DISTURBANCE
- ROW — ROW — AMTRAK RIGHT OF WAY (ROW)
- PERMANENT IMPACT BELOW HIGH TIDE LINE
- TEMPORARY IMPACT BELOW HIGH TIDE LINE



ENVIRONMENTAL PERMIT PLANS
PLAN DATE: MAY 2, 2023

FILE NAME: 217004_HRNET_ACTIVITY_2_HTL.DWG
PRINT DATE: 7/16/2023 8:38 AM
PLOT SCALE: AS NOTED
STANDARD PEN TABLE: YES

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30th Street Station, Philadelphia, Pennsylvania 19104

Approved	Date



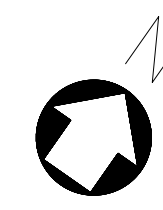
HARDESTY & HANOVER, LLC
ENGINEERING
1501 Broadway New York, NY 10036
wsp 1700 Market St. Suite 1050
Philadelphia, PA 19103

OLD SAYBROOK CONNECTICUT
**REPLACEMENT OF MB 106.89
OVER CONNECTICUT RIVER**
HIGH TIDE LINE IMPACT PLAN
Designed CB Drawn CB/MD Checked KM Date 5/2/2023

Project Code: XXX XXX
WBS:
Sheet No. 56 OF 140
Dwg. No. **HTL-03**

TO NEW HAVEN

TO BOSTON



MATCHLINE DWG HTL-03

MATCHLINE DWG HTL-05

PERMANENT ACCESS PATH (9' MIN.) TO BE CONSTRUCTED AFTER REMOVAL OF TEMPORARY ACCESS PATH, NO TEMPORARY RETAINING WALL SYSTEMS TO REMAIN AT PROJECT COMPLETION

EXISTING SURFACE GRADES AND SURFACE TYPES (INCLUDING RIPRAP AND GRAVEL) TO BE RESTORED AT PROJECT COMPLETION (TYP.)

EXIST TRACK 2
EXIST TRACK 1

PROP TRACK 1
PROP TRACK 2

WESTERN LIMIT OF GRADING WORK

EMBANKMENT SCOUR PROTECTION

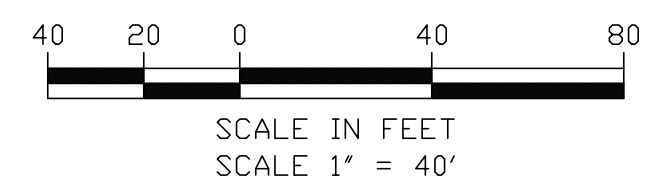
LIMIT OF DISTURBANCE (TYP)

EXISTING SURFACE GRADES AND SURFACE TYPES (INCLUDING PLANTINGS) TO BE RESTORED AT PROJECT COMPLETION (TYP.)

ENVIRONMENTALLY SENSITIVE AREA. GROUND DISTURBANCES IN THIS AREA SHALL BE AVOIDED UNLESS SUBMITTED TO THE ENGINEER AND APPROVED. WHERE PERMITTED, PROPOSED GROUND DISTURBANCES SHALL NOT EXCEED 2 FEET IN DEPTH.

LEGEND:

- FEMA 100 — FEMA 100 — FEMA 100 YEAR FLOOD LINE - ELEVATION VARIES
- LCSTV — LCSTV — LAND CAPABLE OF SUPPORTING TIDAL VEGETATION (LCSTV) - ELEVATION 4.1'
- CJL — CJL — COASTAL JURISDICTION LINE (CJL) - ELEVATION 2.9'
- HTL — HTL — HIGH TIDE LINE (HTL) - ELEVATION 3.04'
- MHW — MHW — MEAN HIGH WATER (MHW) - ELEVATION 1.60'
- MLW — MLW — MEAN LOW WATER (MLW) - ELEVATION -1.71'
- FLD — FLD — FIELD LOCATED WETLAND BOUNDARY
- LOD — LOD — LIMITS OF PROJECT DISTURBANCE
- ROW — ROW — AMTRAK RIGHT OF WAY (ROW)
- PIMP — PIMP — PERMANENT IMPACT BELOW HIGH TIDE LINE
- TIMP — TIMP — TEMPORARY IMPACT BELOW HIGH TIDE LINE



ENVIRONMENTAL PERMIT PLANS
PLAN DATE: MAY 2, 2023

FILE NAME: 212006_IMPACT_ACTIVITY_2_HTL.DWG
PRINT DATE/TIME: 6/29/2023 8:38 AM
PLOT SCALE: AS NOTED
STANDARD PEN TABLE: YES

No.	Revisions	Date	By



Office of Chief Engineer
STRUCTURES
National Railroad Passenger Corporation
30th Street Station, Philadelphia, Pennsylvania 19104

Approved	Date



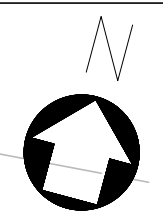
HARDESTY & HANOVER, LLC
ENGINEERING
1501 Broadway New York, NY 10036
wsp 1700 Market St. Suite 1050
Philadelphia, PA 19103

OLD SAYBROOK CONNECTICUT
**REPLACEMENT OF MB 106.89
OVER CONNECTICUT RIVER
HIGH TIDE LINE IMPACT PLAN**
Designed CB Drawn CB/MD Checked KM Date 5/2/2023

Project Code: XXX XXX
WBS:
Sheet No. 57 OF 140
Dwg. No. **HTL-04**

TO NEW HAVEN

TO BOSTON



PERMANENT ACCESS PATH (9' MIN.) TO BE CONSTRUCTED AFTER THE REMOVAL OF TEMPORARY ACCESS PATH, NO TEMPORARY RETAINING WALL SYSTEMS TO REMAIN AT PROJECT COMPLETION

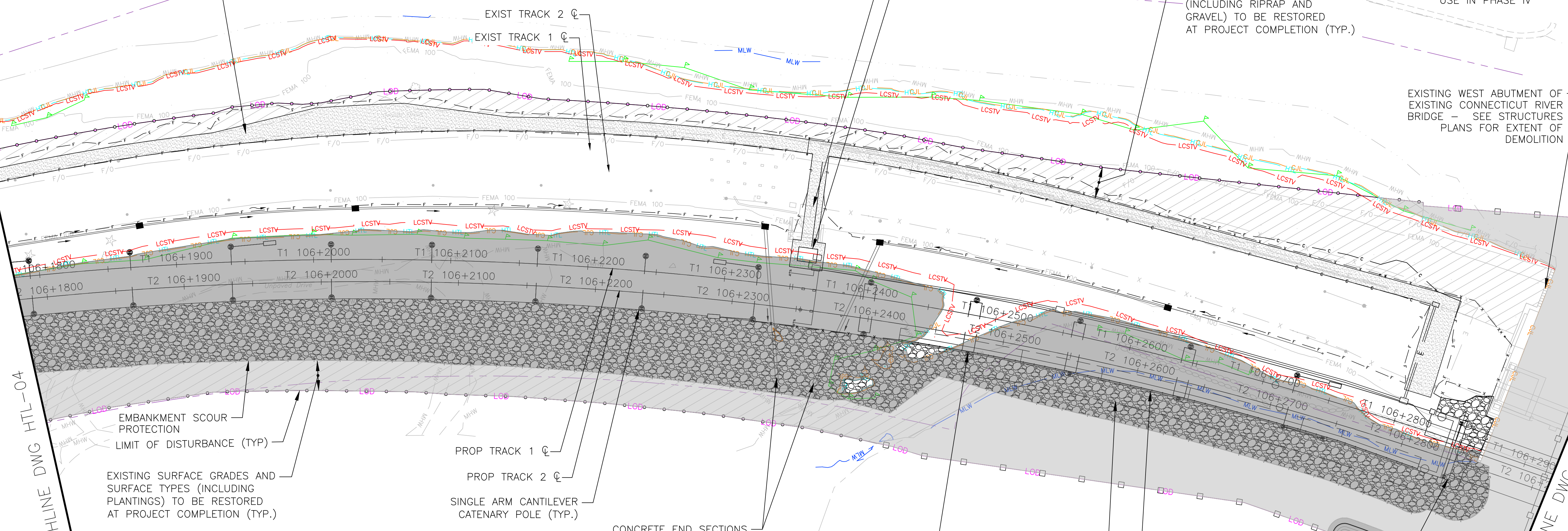
PERMANENT 12' WIDE ACCESS PATH
SIGNAL HOUSE LOCATION A

EXISTING SURFACE GRADES AND SURFACE TYPES (INCLUDING RIPRAP AND GRAVEL) TO BE RESTORED AT PROJECT COMPLETION (TYP.)

REMOVE TEMPORARY TRESTLE WORK PLATFORM AND ALL TEMPORARY PILES AT END OF USE IN PHASE IV

EXISTING WEST ABUTMENT OF EXISTING CONNECTICUT RIVER BRIDGE - SEE STRUCTURES PLANS FOR EXTENT OF DEMOLITION

FLOOD
↑
EBB
↓



EMBANKMENT SCOUR PROTECTION
LIMIT OF DISTURBANCE (TYP.)

EXISTING SURFACE GRADES AND SURFACE TYPES (INCLUDING PLANTINGS) TO BE RESTORED AT PROJECT COMPLETION (TYP.)

PROP TRACK 1
PROP TRACK 2
SINGLE ARM CANTILEVER CATENARY POLE (TYP.)

CONCRETE END SECTIONS

DOUBLE ARM CANTILEVER CATENARY POLE (TYP.)

WEST RETAINING WALL

WALL SCOUR PROTECTION

WEST ABUTMENT FOR NEW CONNECTICUT RIVER BRIDGE

DREDGE AREA FOR CONSTRUCTION BARGES SHALL REMAIN POST CONSTRUCTION

LEGEND:

- FEMA 100 — FEMA 100 — FEMA 100 YEAR FLOOD LINE - ELEVATION VARIES
- LCSTV — LCSTV — LAND CAPABLE OF SUPPORTING TIDAL VEGETATION (LCSTV) - ELEVATION 4.1'
- C/JL — C/JL — COASTAL JURISDICTION LINE (C/JL) - ELEVATION 2.9'
- HTL — HTL — HIGH TIDE LINE (HTL) - ELEVATION 3.04'
- MHW — MHW — MEAN HIGH WATER (MHW) - ELEVATION 1.60'
- MLW — MLW — MEAN LOW WATER (MLW) - ELEVATION -1.71'
- FLD — FLD — FIELD LOCATED WETLAND BOUNDARY
- LDD — LDD — LIMITS OF PROJECT DISTURBANCE
- ROW — ROW — AMTRAK RIGHT OF WAY (ROW)
- PERM — PERM — PERMANENT IMPACT BELOW HIGH TIDE LINE
- TEMP — TEMP — TEMPORARY IMPACT BELOW HIGH TIDE LINE



SCALE IN FEET
SCALE 1" = 40'

ENVIRONMENTAL PERMIT PLANS
PLAN DATE: MAY 2, 2023

No.	Revisions	Date	By

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30th Street Station, Philadelphia, Pennsylvania 19104

Approved	Date



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ENGINEERING
1501 Broadway New York, NY 10036

wsp 1700 Market St. Suite 1050
Philadelphia, PA 19103

OLD SAYBROOK CONNECTICUT

**REPLACEMENT OF MB 106.89
OVER CONNECTICUT RIVER**

HIGH TIDE LINE IMPACT PLAN

Designed CB Drawn CB/MD Checked KM Date 5/2/2023

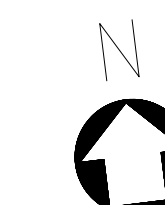
Project Code: XXX XXX
WBS:
Sheet No. 58 OF 140
Dwg. No. HTL-05

FILE NAME: 217006-IMPACT_ACTIVITY_0_HTL.DWG
PRINT DATE/TIME: 6/2/2023 8:38 AM
PLOT SCALE: AS NOTED
STANDARD PEN TABLE: YES

TO NEW HAVEN

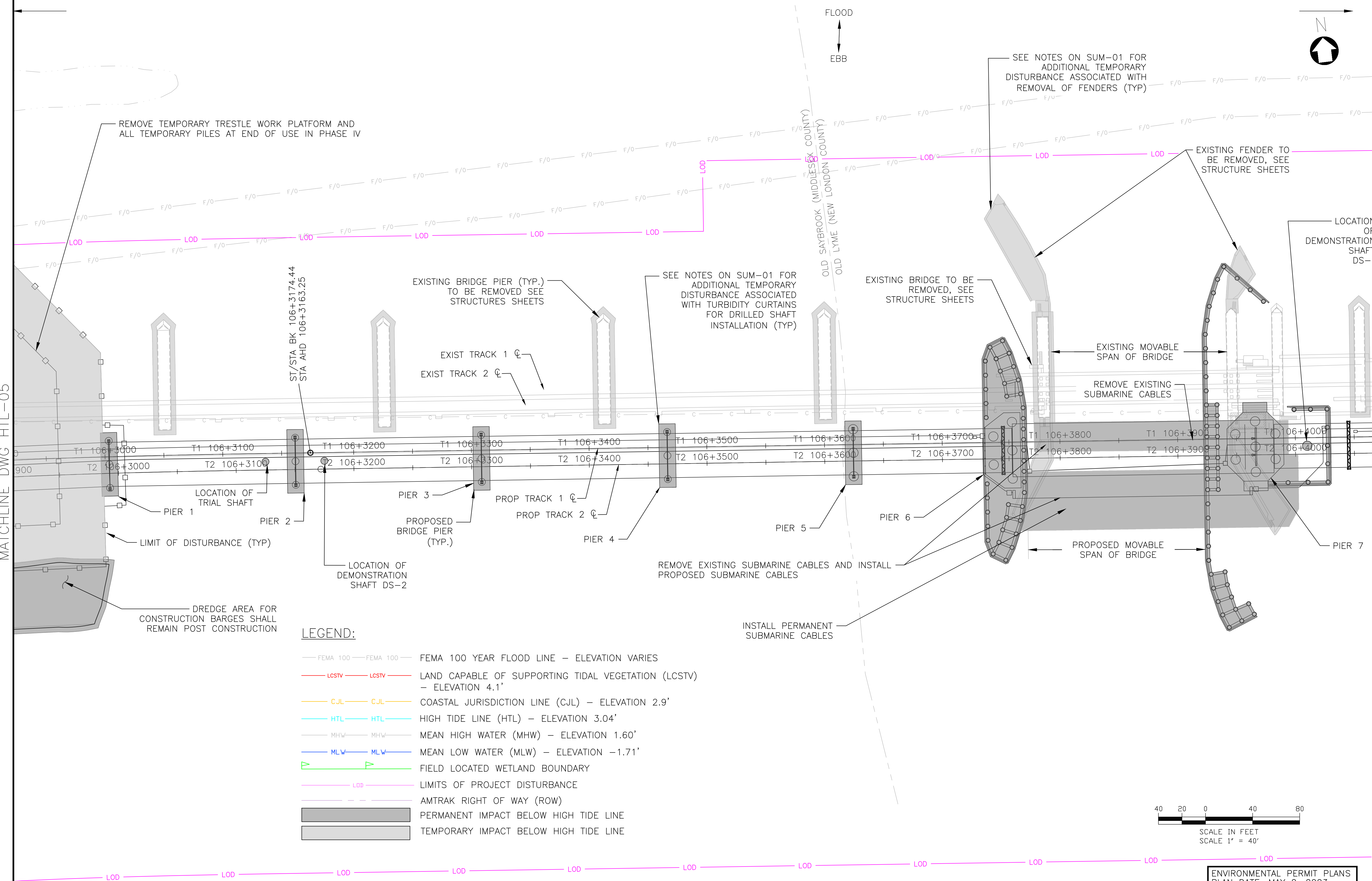
TO BOSTON

FLOOD
↑
EBB
↓



MATCHLINE DWG HTL-05

MATCHLINE DWG HTL-07



REMOVE TEMPORARY TRESTLE WORK PLATFORM AND ALL TEMPORARY PILES AT END OF USE IN PHASE IV

SEE NOTES ON SUM-01 FOR ADDITIONAL TEMPORARY DISTURBANCE ASSOCIATED WITH REMOVAL OF FENDERS (TYP)

EXISTING FENDER TO BE REMOVED, SEE STRUCTURE SHEETS

LOCATION OF DEMONSTRATION SHAFT DS-1

EXISTING BRIDGE PIER (TYP.) TO BE REMOVED SEE STRUCTURES SHEETS

SEE NOTES ON SUM-01 FOR ADDITIONAL TEMPORARY DISTURBANCE ASSOCIATED WITH TURBIDITY CURTAINS FOR DRILLED SHAFT INSTALLATION (TYP)

EXISTING BRIDGE TO BE REMOVED, SEE STRUCTURE SHEETS

EXISTING MOVABLE SPAN OF BRIDGE

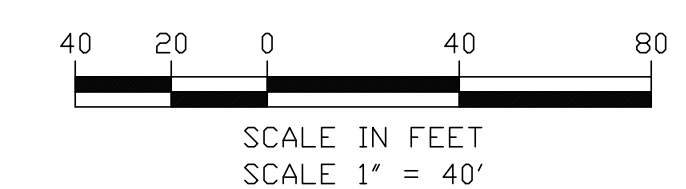
REMOVE EXISTING SUBMARINE CABLES

PROPOSED MOVABLE SPAN OF BRIDGE

DREDGE AREA FOR CONSTRUCTION BARGES SHALL REMAIN POST CONSTRUCTION

LEGEND:

- FEMA 100 — FEMA 100 — FEMA 100 YEAR FLOOD LINE — ELEVATION VARIES
- LCSTV — LCSTV — LAND CAPABLE OF SUPPORTING TIDAL VEGETATION (LCSTV) — ELEVATION 4.1'
- CJL — CJL — COASTAL JURISDICTION LINE (CJL) — ELEVATION 2.9'
- HTL — HTL — HIGH TIDE LINE (HTL) — ELEVATION 3.04'
- MHW — MHW — MEAN HIGH WATER (MHW) — ELEVATION 1.60'
- MLW — MLW — MEAN LOW WATER (MLW) — ELEVATION -1.71'
- FIELD LOCATED WETLAND BOUNDARY
- LOD — LIMITS OF PROJECT DISTURBANCE
- AMTRAK RIGHT OF WAY (ROW)
- PERMANENT IMPACT BELOW HIGH TIDE LINE
- TEMPORARY IMPACT BELOW HIGH TIDE LINE



ENVIRONMENTAL PERMIT PLANS
PLAN DATE: MAY 2, 2023

FILE NAME: 217004-IMPACT_ACTIVITY_01_HTL.DWG
PRINT DATE: 7/16/2023 8:38 AM
PLOT SCALE: AS NOTED
STANDARD PEN TABLE: YES

No.	Revisions	Date	By

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Office of Chief Engineer
STRUCTURES
National Railroad Passenger Corporation
30th Street Station, Philadelphia, Pennsylvania 19104

Approved	Date



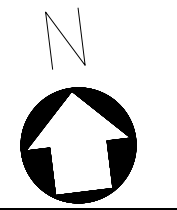
HARDESTY & HANOVER, LLC
ENGINEERING
1501 Broadway New York, NY 10036
wsp 1700 Market St. Suite 1050
Philadelphia, PA 19103

OLD SAYBROOK CONNECTICUT
**REPLACEMENT OF MB 106.89
OVER CONNECTICUT RIVER**
HIGH TIDE LINE IMPACT PLAN
Designed CB Drawn CB/MD Checked KM Date 5/2/2023

Project Code: XXX XXX
WBS:
Sheet No. 59 OF 140
Dwg. No. **HTL-06**

TO NEW HAVEN

TO BOSTON



2000-GALLON MAINLAND SANITARY TANK WITH DRY SANITARY LINE TO SANITARY WASTE COLLECTION PORT IN CTDEEP PARKING LOT

2000-GALLON MAINLAND WATER TANK WITH DRY WATER LINE TO WATER FILL PORT IN CTDEEP PARKING LOT

MATCHLINE DWG HTL-12

ELECTRIC CONDUITS TO CTDEEP PARKING LOT

REMOVE EXISTING DRY FIRE PIPE

EXISTING STAIRWAY ACCESS FROM FERRY LANDING STATE PARK PARKING LOT TO AMTRAK FACILITIES AND TRACK TO REMAIN OR BE REBUILT IF DISTURBED

EXISTING SURFACE GRADES AND SURFACE TYPES (INCLUDING RIPRAP AND GRAVEL) TO BE RESTORED AT PROJECT COMPLETION (TYP.)

TEMPORARY ACCESS PATH TO BE REMOVED, NO TEMPORARY RETAINING WALL SYSTEMS TO REMAIN AT PROJECT COMPLETION

LIMIT OF DISTURBANCE (TYP)

LOD FLOOD
EBB

EXISTING FISHING PIER/BOARDWALK TO BE REMOVED

REMOVE TEMPORARY TRESTLE WORK PLATFORM AND ALL TEMPORARY PILES AT END OF USE IN PHASE IV

EXIST TRACK 1

EXIST TRACK 2

EXISTING BRIDGE PIER TO BE REMOVED, SEE STRUCTURE SHEETS

PIER 8

PIER 9

PROP TRACK 1
PROP TRACK 2

CONTROL HOUSE

DREDGE AREA FOR CONSTRUCTION BARGES SHALL REMAIN POST CONSTRUCTION

EXISTING EAST ABUTMENT OF CONNECTICUT RIVER BRIDGE—SEE STRUCTURES SHEETS FOR EXTENT OF DEMOLITION

WALL SCOUR PROTECTION

EAST RETAINING WALL

EXISTING SURFACE GRADES AND SURFACE TYPES (INCLUDING PLANTINGS) TO BE RESTORED AT PROJECT COMPLETION (TYP.)

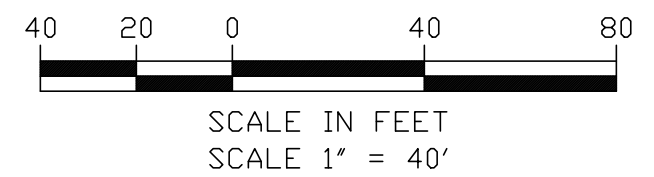
EMBANKMENT SCOUR PROTECTION

PROPOSED FISHING PIER/BOARDWALK

EAST ABUTMENT FOR NEW CONNECTICUT RIVER BRIDGE, SEE STRUCTURES SHEETS

LEGEND:

- FEMA 100 — FEMA 100 — FEMA 100 YEAR FLOOD LINE — ELEVATION VARIES
- LCSTV — LCSTV — LAND CAPABLE OF SUPPORTING TIDAL VEGETATION (LCSTV) — ELEVATION 4.1'
- CJL — CJL — COASTAL JURISDICTION LINE (CJL) — ELEVATION 2.9'
- HTL — HTL — HIGH TIDE LINE (HTL) — ELEVATION 3.04'
- MHW — MHW — MEAN HIGH WATER (MHW) — ELEVATION 1.60'
- MLW — MLW — MEAN LOW WATER (MLW) — ELEVATION -1.71'
- — — FIELD LOCATED WETLAND BOUNDARY
- — — LIMITS OF PROJECT DISTURBANCE
- — — AMTRAK RIGHT OF WAY (ROW)
- PERMANENT IMPACT BELOW HIGH TIDE LINE
- TEMPORARY IMPACT BELOW HIGH TIDE LINE



MATCHLINE DWG HTL-06

MATCHLINE DWG HTL-08

ENVIRONMENTAL PERMIT PLANS
PLAN DATE: MAY 2, 2023

No.	Revisions	Date	By

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Office of Chief Engineer
STRUCTURES

National Railroad Passenger Corporation
30th Street Station, Philadelphia, Pennsylvania 19104

Approved	Date



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1501 Broadway New York, NY 10036

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1700 Market St. Suite 1050
Philadelphia, PA 19103

OLD SAYBROOK CONNECTICUT

**REPLACEMENT OF MB 106.89
OVER CONNECTICUT RIVER
HIGH TIDE LINE IMPACT PLAN**

Designed CB Drawn CB/MD Checked KM Date 5/2/2023

Project Code: XXX XXX

WBS:

Sheet No. 60 OF 140

Dwg. No. **HTL-07**

FILE NAME: 212006-IMPACT_ACTIVITY_01_HTL.DWG
PRINT DATE/TIME: 5/2/2023 8:38 AM
PLOT SCALE: AS NOTED
STANDARD PEN TABLE: YES

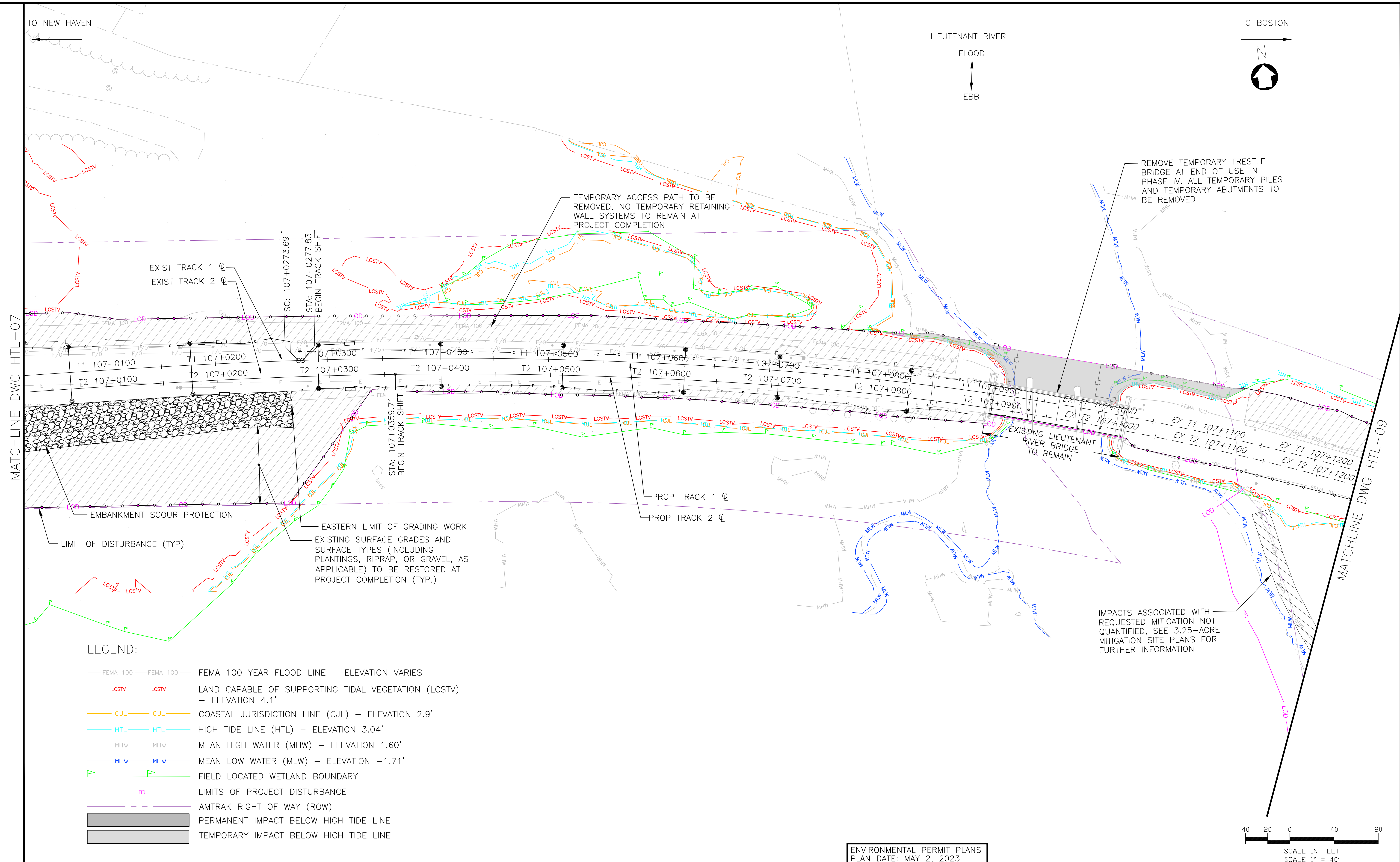
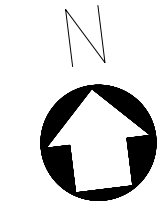
TO NEW HAVEN

TO BOSTON

LIEUTENANT RIVER

FLOOD

EBB



EXIST TRACK 1
EXIST TRACK 2

TEMPORARY ACCESS PATH TO BE REMOVED, NO TEMPORARY RETAINING WALL SYSTEMS TO REMAIN AT PROJECT COMPLETION

REMOVE TEMPORARY TRESTLE BRIDGE AT END OF USE IN PHASE IV. ALL TEMPORARY PILES AND TEMPORARY ABUTMENTS TO BE REMOVED

EXISTING LIEUTENANT RIVER BRIDGE TO REMAIN

LEGEND:

- FEMA 100 — FEMA 100 — FEMA 100 YEAR FLOOD LINE — ELEVATION VARIES
- LCSTV — LCSTV — LAND CAPABLE OF SUPPORTING TIDAL VEGETATION (LCSTV) — ELEVATION 4.1'
- CJL — CJL — COASTAL JURISDICTION LINE (CJL) — ELEVATION 2.9'
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- MLW — MLW — MEAN LOW WATER (MLW) — ELEVATION -1.71'
- FIELD LOCATED WETLAND BOUNDARY
- LOD — LIMITS OF PROJECT DISTURBANCE
- AMTRAK RIGHT OF WAY (ROW)
- PERMANENT IMPACT BELOW HIGH TIDE LINE
- TEMPORARY IMPACT BELOW HIGH TIDE LINE

IMPACTS ASSOCIATED WITH REQUESTED MITIGATION NOT QUANTIFIED, SEE 3.25-ACRE MITIGATION SITE PLANS FOR FURTHER INFORMATION



ENVIRONMENTAL PERMIT PLANS
PLAN DATE: MAY 2, 2023

FILE NAME: 212004-IMPACT_ACTIVITY_3_HTL.DWG
PRINT DATE: 7/16/2023 8:29 AM
PLOT SCALE: AS NOTED
STANDARD PEN TABLE: YES

No.	Revisions	Date	By



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STRUCTURES
National Railroad Passenger Corporation
30th Street Station, Philadelphia, Pennsylvania 19104

Approved	Date



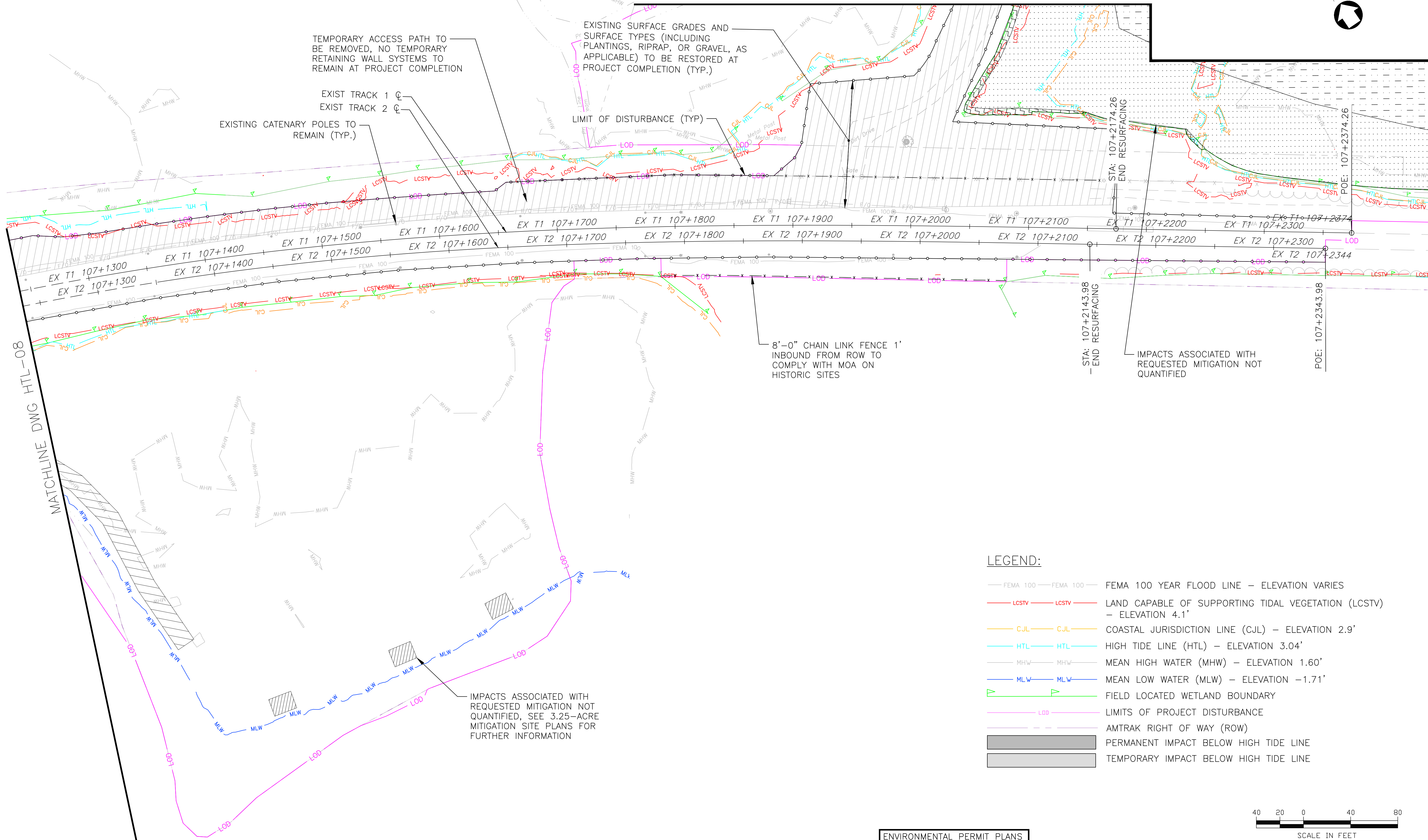
HARDESTY & HANOVER, LLC
ENGINEERING
1501 Broadway New York, NY 10036
1700 Market St. Suite 1050
Philadelphia, PA 19103

Project Code: XXX XXX
WBS:
Sheet No. 61 OF 140
Dwg. No. HTL-08
Designed CB Drawn CB/MD Checked KM Date 5/2/2023

TO NEW HAVEN

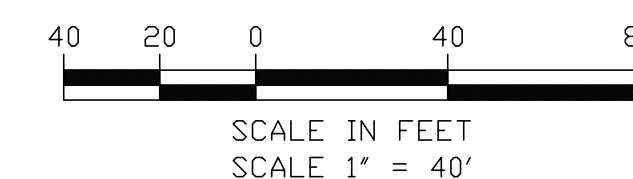
TO BOSTON

MATCHLINE DWG HTL-11



LEGEND:

- FEMA 100 — FEMA 100 YEAR FLOOD LINE — ELEVATION VARIES
- LCSTV — LCSTV — LAND CAPABLE OF SUPPORTING TIDAL VEGETATION (LCSTV) — ELEVATION 4.1'
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- — AMTRAK RIGHT OF WAY (ROW)
- — PERMANENT IMPACT BELOW HIGH TIDE LINE
- — TEMPORARY IMPACT BELOW HIGH TIDE LINE



ENVIRONMENTAL PERMIT PLANS
PLAN DATE: MAY 2, 2023

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1700 Market St. Suite 1050
Philadelphia, PA 19103

OLD SAYBROOK CONNECTICUT

**REPLACEMENT OF MB 106.89
OVER CONNECTICUT RIVER
HIGH TIDE LINE IMPACT PLAN**

Designed CB Drawn CB/MD Checked KM Date 5/2/2023

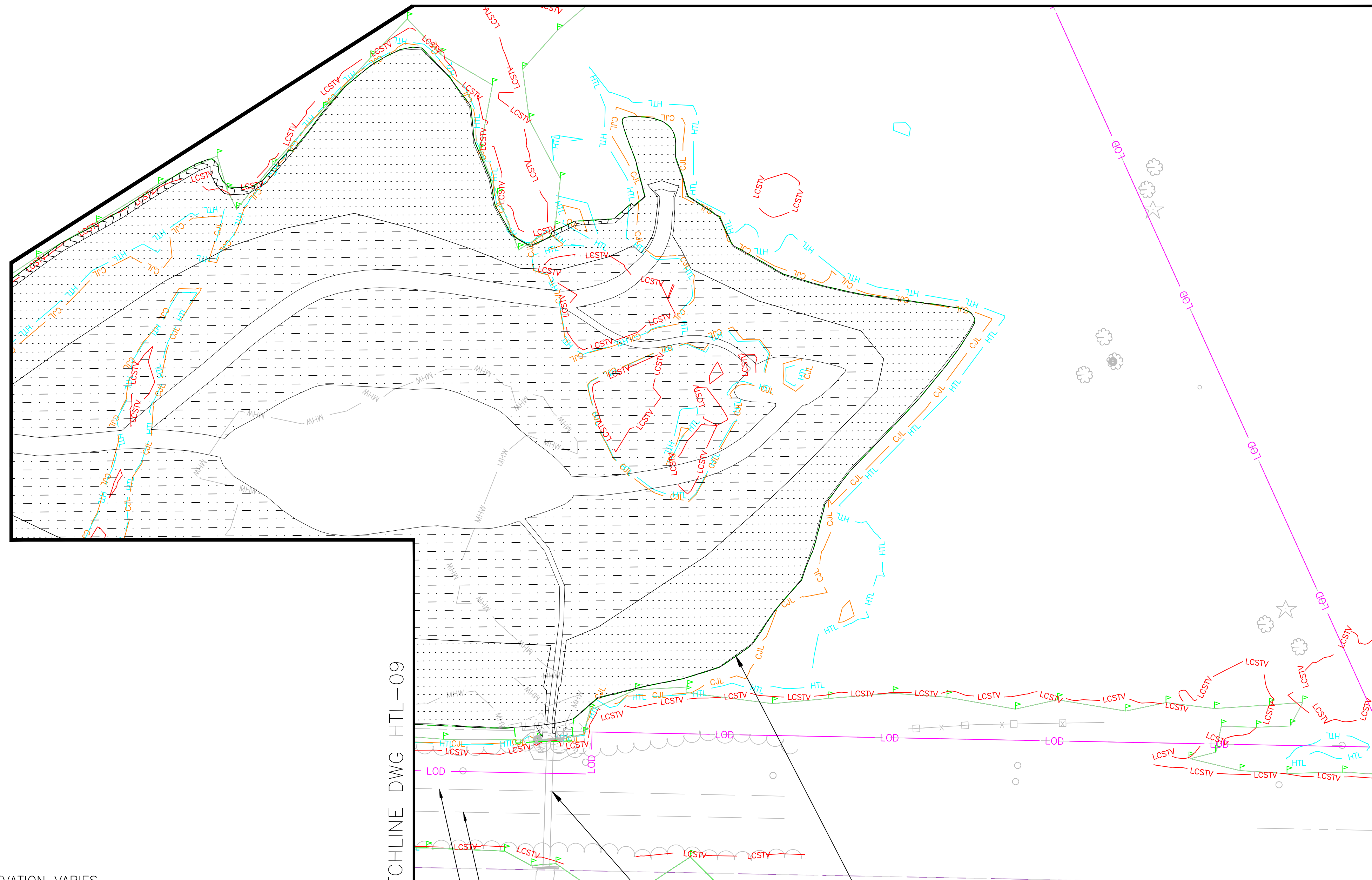
Project Code:	XXX XXX
WBS:	
Sheet No.:	62 OF 140
Dwg. No.:	HTL-09

FILE NAME: 212006-IMPACT_ACTIVITY_2_HTL.DWG
 PRINT DATE/TIME: 5/2/2023 8:29 AM
 PLOT SCALE: AS NOTED
 STANDARD PEN TABLE: YES

TO NEW HAVEN

TO BOSTON

MATCHLINE DWG HTL-11



LEGEND:

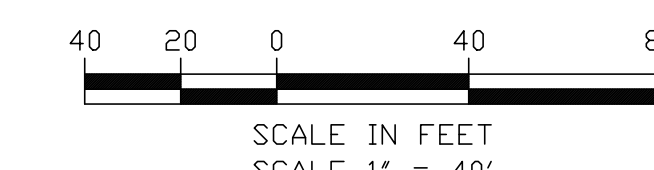
- FEMA 100 — FEMA 100 — FEMA 100 YEAR FLOOD LINE — ELEVATION VARIES
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- LOD — LOD — LIMITS OF PROJECT DISTURBANCE
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- PERMANENT IMPACT BELOW HIGH TIDE LINE
- TEMPORARY IMPACT BELOW HIGH TIDE LINE

MATCHLINE DWG HTL-09

EXIST TRACK 2 ☉
EXIST TRACK 1 ☉

IMPACTS ASSOCIATED WITH REQUESTED MITIGATION NOT QUANTIFIED, SEE 17 SHORE ROAD MITIGATION SITE PLANS FOR FURTHER INFORMATION

EXISTING CULVERT (TO BE ABANDONED AFTER COMMISSIONING OF THIS MITIGATION SITE)



ENVIRONMENTAL PERMIT PLANS
PLAN DATE: MAY 2, 2023

FILE NAME: 217006_IMPACT_ACTIVITY_01_HTL.DWG
PRINT DATE: 7/16/2023 8:39 AM
PLOT SCALE: AS NOTED
STANDARD PEN TABLE: YES

No.	Revisions	Date	By

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STRUCTURES
National Railroad Passenger Corporation
30th Street Station, Philadelphia, Pennsylvania 19104

Approved	Date

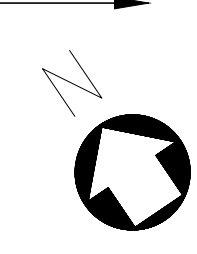


HARDESTY & HANOVER, LLC
ENGINEERING
1501 Broadway New York, NY 10036
wsp 1700 Market St. Suite 1050
Philadelphia, PA 19103

OLD SAYBROOK CONNECTICUT		Project Code: XXX XXX
REPLACEMENT OF MB 106.89 OVER CONNECTICUT RIVER		WBS: 63 OF 140
HIGH TIDE LINE IMPACT PLAN		Dwg. No. HTL-10
Designed CB	Drawn CB/MD	Checked KM
Date 5/2/2023		

TO NEW HAVEN

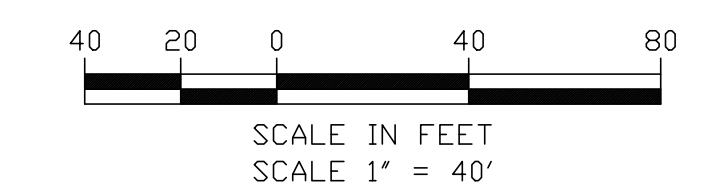
TO BOSTON



IMPACTS ASSOCIATED WITH REQUESTED MITIGATION NOT QUANTIFIED, SEE 17 SHORE ROAD MITIGATION SITE PLANS FOR FURTHER INFORMATION

LEGEND:

- FEMA 100 — FEMA 100 — FEMA 100 YEAR FLOOD LINE — ELEVATION VARIES
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- LOD — LIMITS OF PROJECT DISTURBANCE
- AMTRAK RIGHT OF WAY (ROW)
- PERMANENT IMPACT BELOW HIGH TIDE LINE
- TEMPORARY IMPACT BELOW HIGH TIDE LINE



ENVIRONMENTAL PERMIT PLANS
PLAN DATE: MAY 2, 2023

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ENGINEERING
1501 Broadway New York, NY 10036
wsp 1700 Market St. Suite 1050
Philadelphia, PA 19103

OLD SAYBROOK CONNECTICUT
**REPLACEMENT OF MB 106.89
OVER CONNECTICUT RIVER
HIGH TIDE LINE IMPACT PLAN**
Designed CB Drawn CB/MD Checked KM Date 5/2/2023

Project Code: XXX XXX
WBS:
Sheet No. 64 OF 140
Dwg. No. **HTL-11**

FILE NAME: 212006_IMPACT_ACTIVITY_2_HTL.DWG
PRINT DATE: 7/16/2023 8:29 AM
PLOT SCALE: AS NOTED
STANDARD PEN TABLE: YES

TO NEW HAVEN

TO BOSTON

LEGEND:

- FEMA 100 — FEMA 100 — FEMA 100 YEAR FLOOD LINE — ELEVATION VARIES
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- PERMANENT IMPACT BELOW HIGH TIDE LINE
- TEMPORARY IMPACT BELOW HIGH TIDE LINE



FERRY LANDING STATE PARK
CTDEEP MARINE HEADQUARTERS

TEMPORARY PARKING AREA TO BE RESTORED WITH TOPSOIL AND SEED

BITUMINOUS CONCRETE FOR PERMANENT ADA COMPLIANT PARKING SPACES

TEMPORARY PARKING AREA TO BE RESTORED WITH TOPSOIL AND SEED

AREA NOT AVAILABLE FOR CONTRACTOR USE, LIMIT OF DISTURBANCE FOR INSTALLATION OF MITIGATION MEASURES DURING PHASE IV

CONCRETE SIDEWALK (TYP)

TREX WALKWAY

REMOVE EXISTING BOARDWALK

PROPOSED BOARDWALK

CL&P POLE NO. 4236 TO REMAIN

CL&P TRANSFORMER FOR BRIDGE
DISCONNECT SWITCH AND METERING EQUIPMENT

#3-4" CONDUIT IN TRENCH

EXISTING CL&P TRANSFORMER FOR BRIDGE TO REMAIN UNTIL EXISTING BRIDGE IS DEMOLISHED

JUNCTION VAULT (TYP)

DRY WATER LINE FROM TANK TO WATER FILL PORT IN CTDEEP PARKING LOT

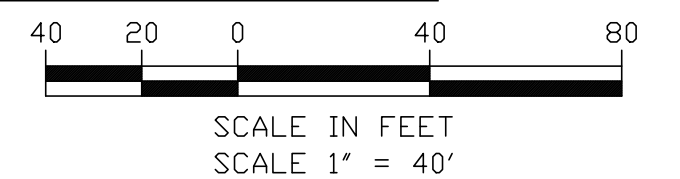
DRY SANITARY LINE FROM TANK TO SANITARY WASTE COLLECTION PORT IN CTDEEP PARKING LOT

BUILDING 1 WAREHOUSE

BUILDING 1 WAREHOUSE

BUILDING 2 GARAGE

MATCHLINE DWG HTL-07



ENVIRONMENTAL PERMIT PLANS
PLAN DATE: MAY 2, 2023

FILE NAME: 217004-IMPACT_ACTIVITY_0_HTL.DWG
PRINT DATE: 7/16/2023 8:29 AM
PLOT SCALE: AS NOTED
STANDARD PEN TABLE: YES

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30th Street Station, Philadelphia, Pennsylvania 19104

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OLD SAYBROOK CONNECTICUT
**REPLACEMENT OF MB 106.89
OVER CONNECTICUT RIVER**
HIGH TIDE LINE IMPACT PLAN
Designed CB Drawn CB/MD Checked KM Date 5/2/2023

Project Code: XXX XXX
WBS:
Sheet No. 65 OF 140
Dwg. No. **HTL-12**