



Cape Cod Bridges Program

Bourne, Massachusetts

Appendix 5
Construction Schematics

SUBMITTED TO:
Secretary of Energy and Environmental Affairs
Executive Office of Energy and Environmental Affairs (EEA)
Massachusetts Environmental Policy Act (MEPA) Office
100 Cambridge Street, Suite 900
Boston, MA 02114

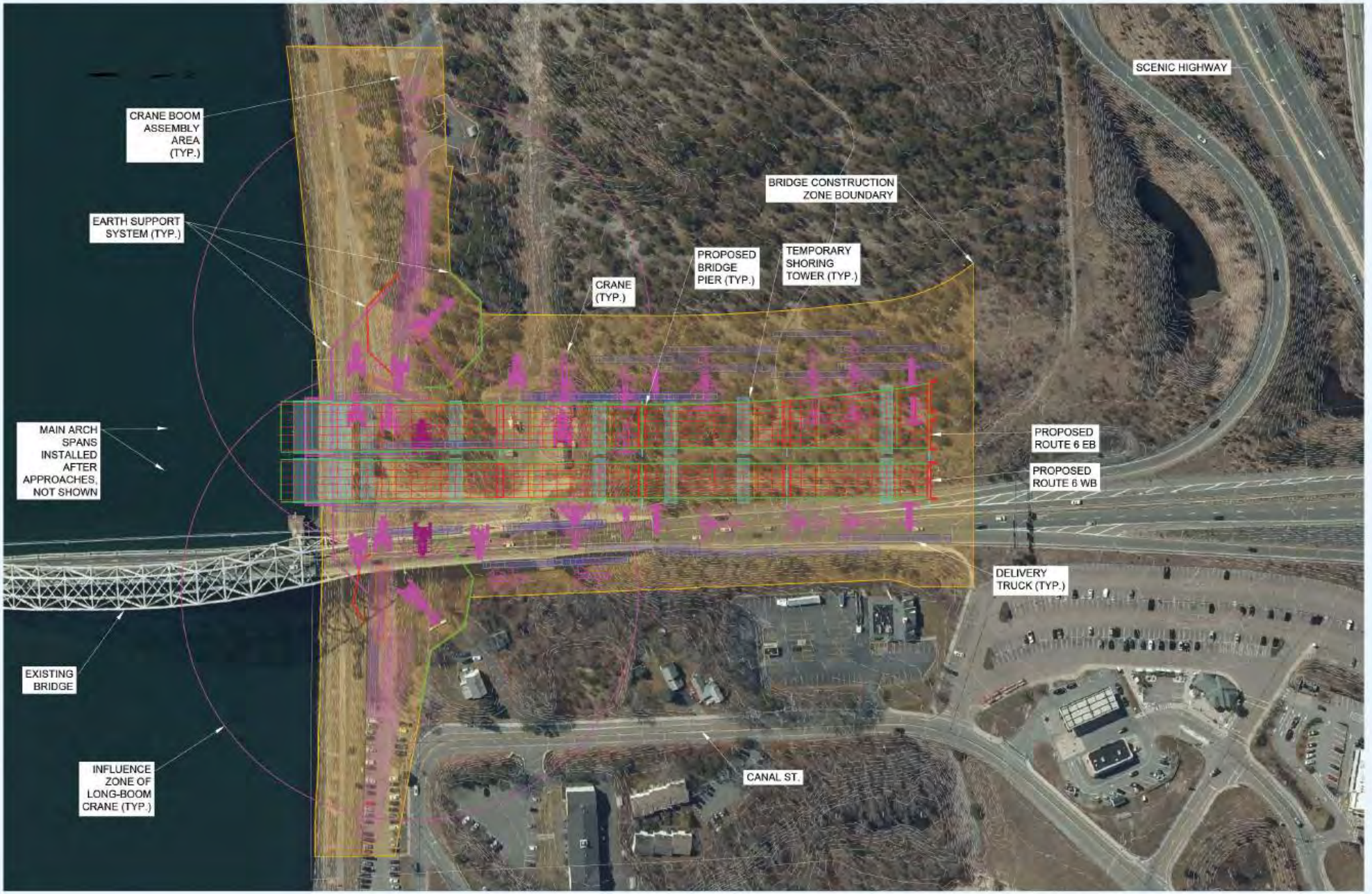
PROPONENT:
The Massachusetts Department of Transportation
Highway Division
10 Park Plaza
Boston, MA 02116

Submitted August 2025

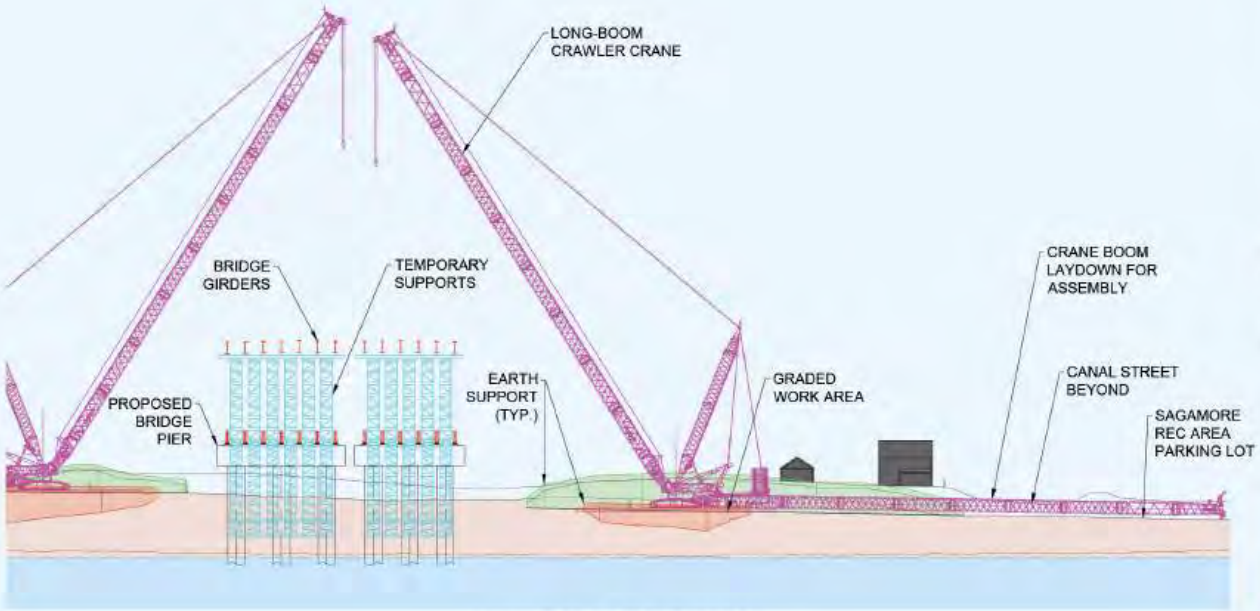
massDOT
Massachusetts Department of Transportation

Attachment 1 – Schematics of Bridge and Mainline Construction

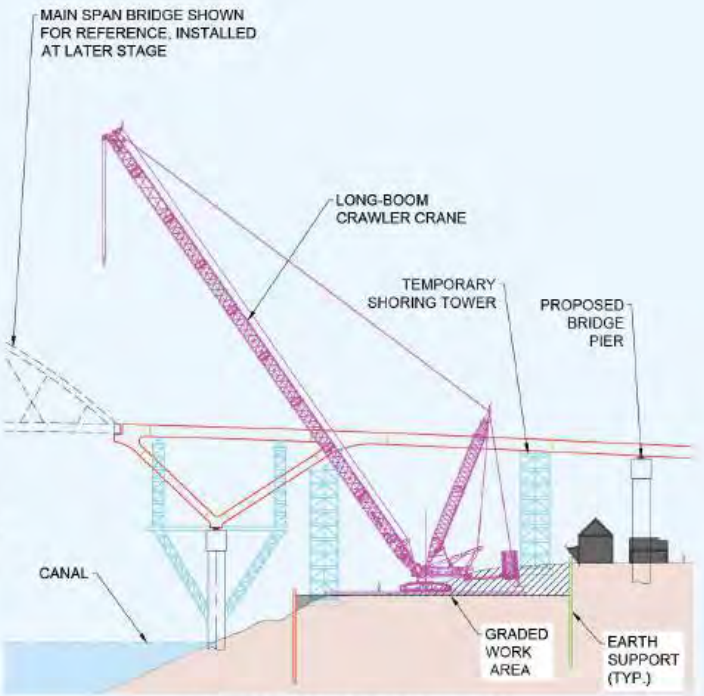
Construction Concept Plan: Sagamore North



Construction Illustration: Sagamore North



VIEW LOOKING NORTH FROM WATER

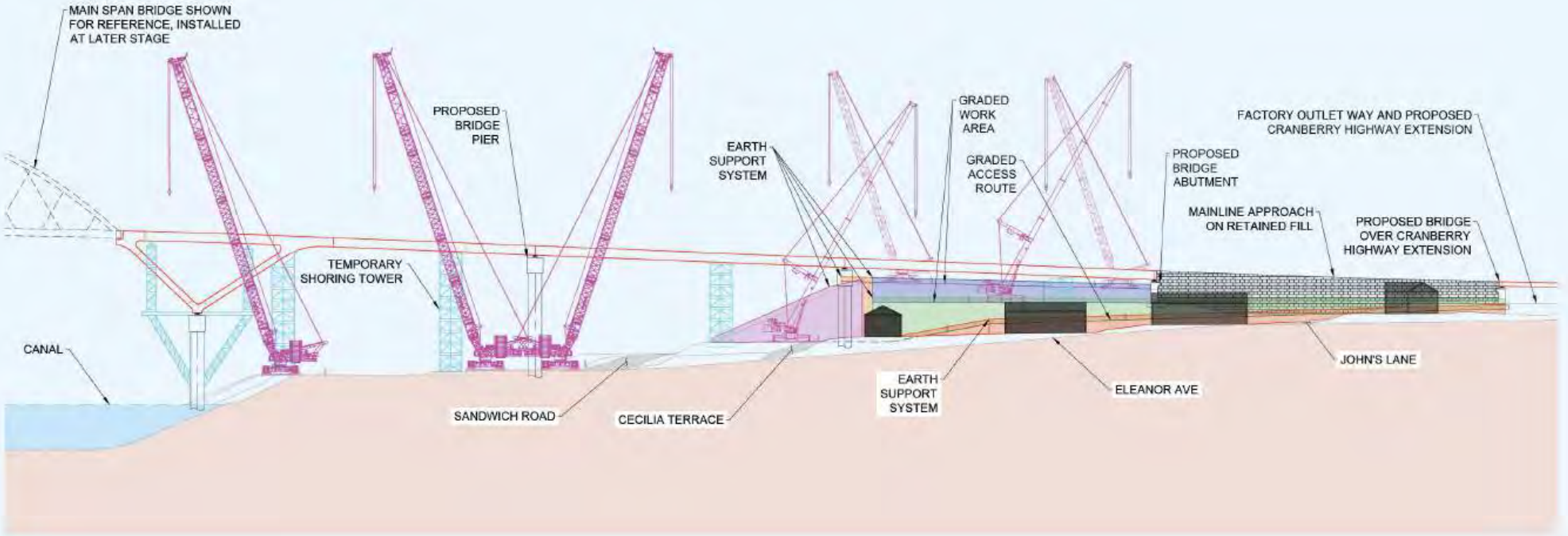


VIEW LOOKING EAST FROM CANAL STREET

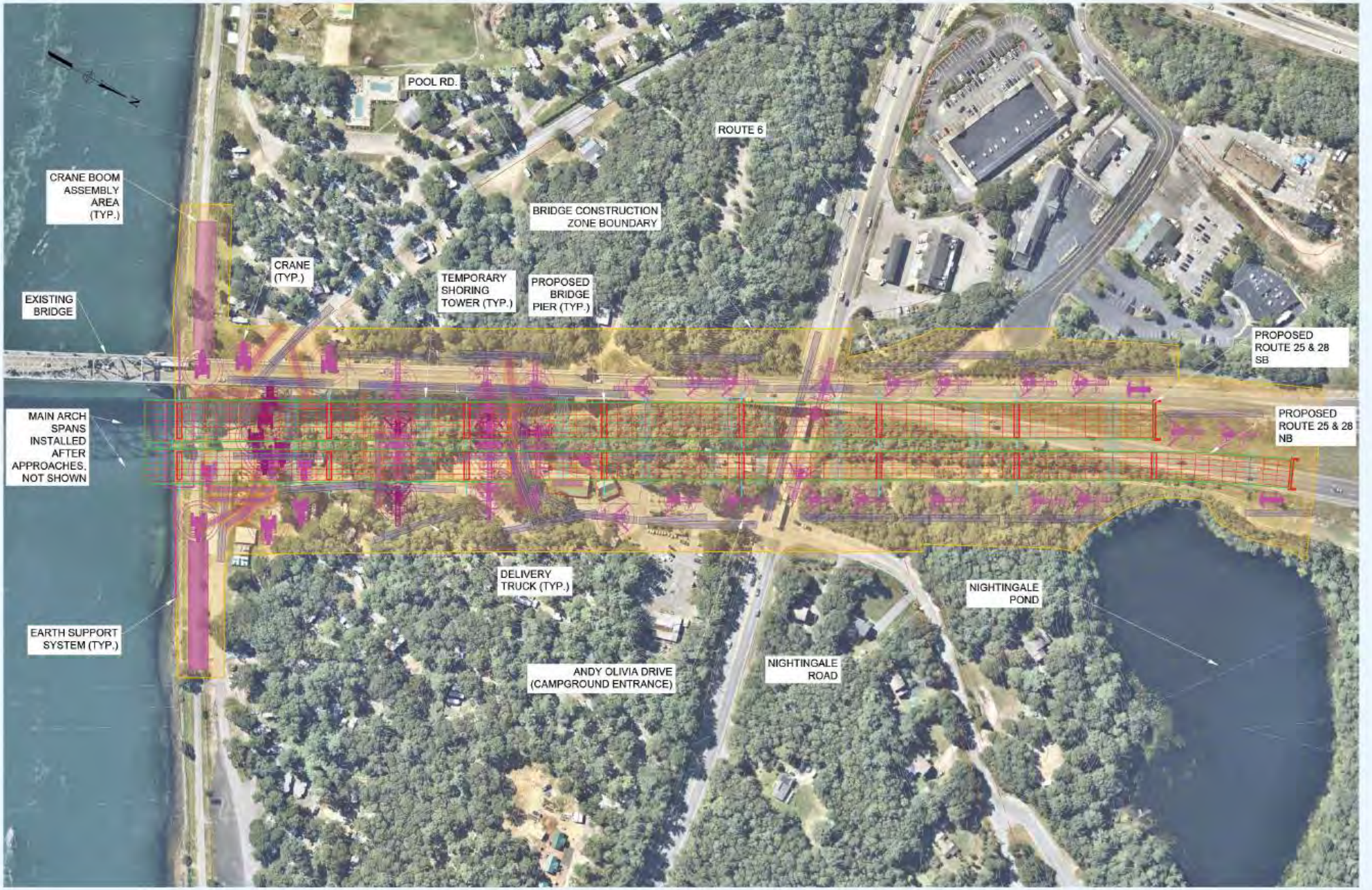
Construction Concept Plan: Sagamore South



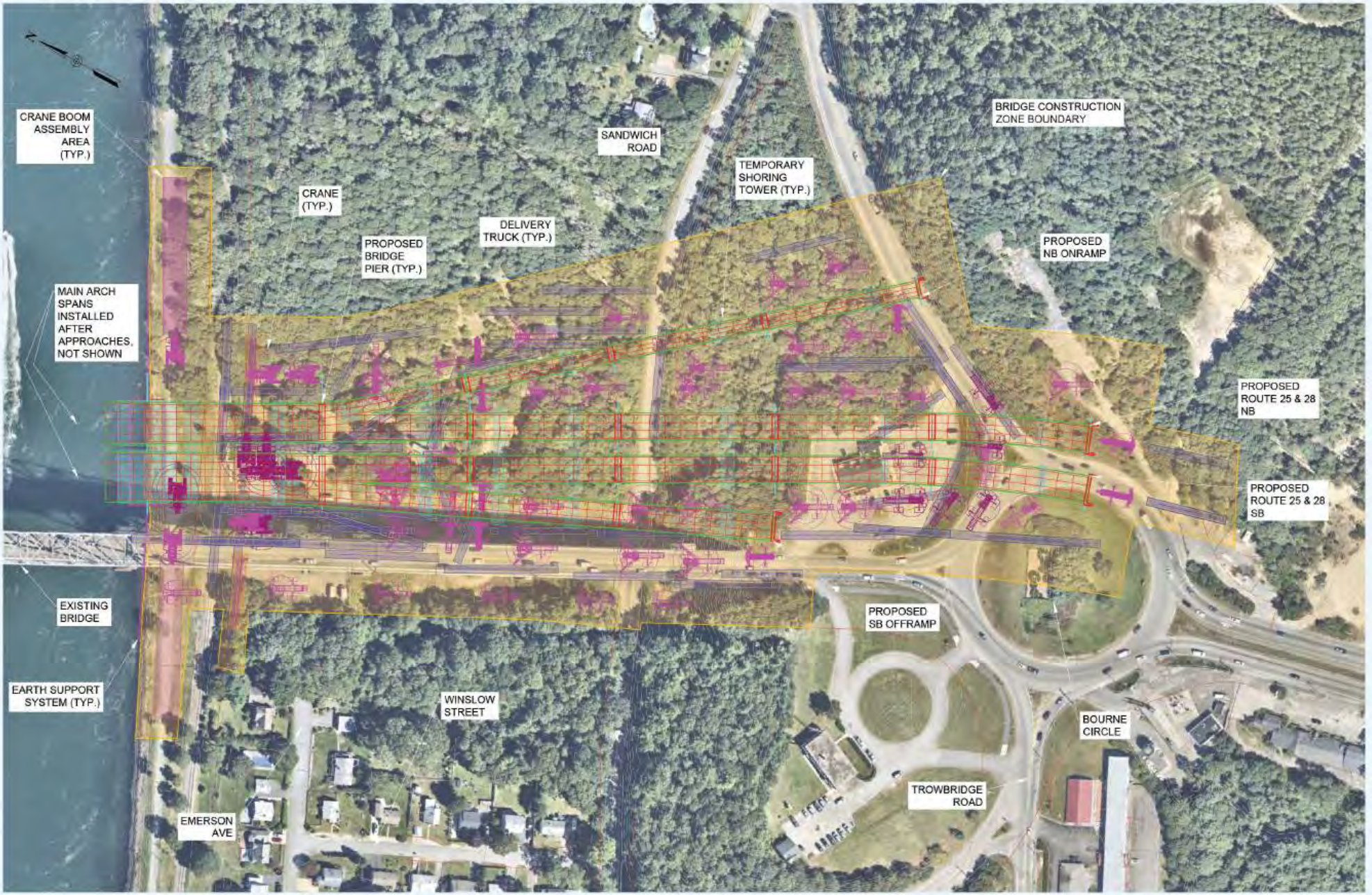
Construction Illustration: Sagamore South



Construction Concept Plan: Bourne North



Construction Concept Plan: Bourne South



Attachment 2 – Schematics of In-Water Work Activities

608020_BR(PERMIT_BORTEMPWORKS).DWG Plotted on 14-Aug-2024 8:37 AM

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SHEETING ALONG SHORELINE

SHEETING FOR BULKHEAD

BREAK IN SHEETING FOR MAJOR STORMWATER OUTFALL

PILE SUPPORTED BOLLARD

CONTAINMENT CELL FOR PIER DEMOLITION

COFFERDAM FOR PIER CONSTRUCTION

PROPOSED FOOTING ZONE

APPROXIMATE HIGH TIDE LINE

RIPRAP MODIFICATION IN TIDAL ZONE

DOCKS FOR BARGES

POST-CONSTRUCTION DREDGING TO RESTORE BOTTOM PROFILE

PILE SUPPORTED DOLPHIN

FILL BETWEEN SHEETING AND BULKHEAD

EXISTING PIER TO BE DEMONLISHED

RIPRAP PROTECTION AROUND NEW PIER

DREDGING AROUND TOE OF SHEETING AND/OR BULKHEAD

DREDGING BETWEEN BARGE DOCKS

APPROXIMATE ZONE OF MARINE DISTURBANCE

NAVIGATIONAL CHANNEL BOUNDARY

PILE SUPPORTED WORK TRESTLE

EXISTING BRIDGE

PROPOSED BRIDGES

0 30 60 90 120

SCALE: 1" = 30'

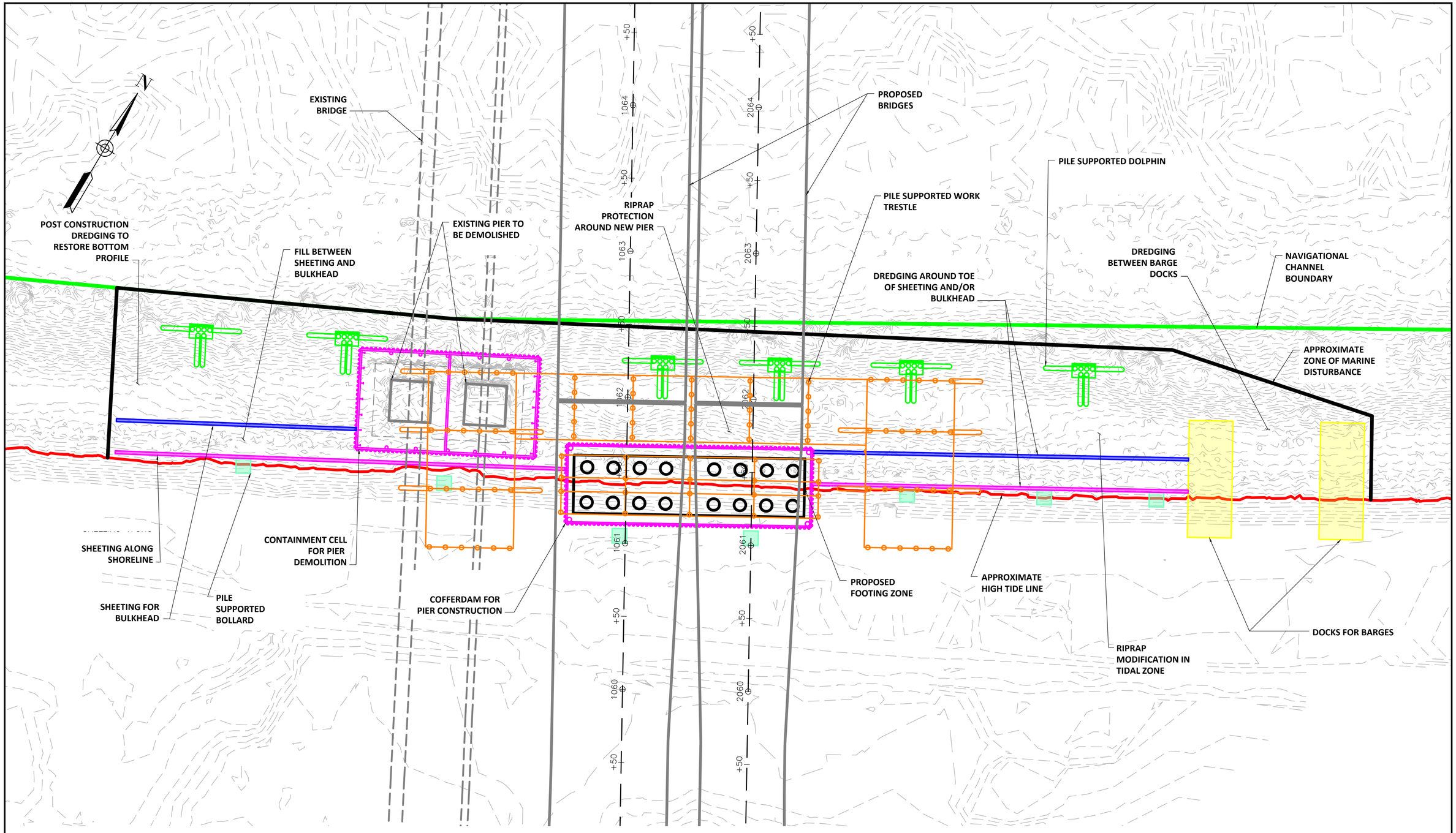
CONCEPTUAL TEMPORARY WORKS PLAN
SCALE: 1" = 30' ELEVATION DATUM NAVD88, CONTOUR 1'

THE CAPE COD BRIDGES PROGRAM
BOURNE NORTH - CONCEPTUAL TEMPORARY WORKS PLAN

DRAFT

SCALE:1" = 30'	HNTB	MassDOT Massachusetts Department of Transportation Highway Division	
DATE: 7/11/2024	DRAWN BY: PM	CHECKED BY: MTB	SHEET NO: MT-101

PRE-DECISIONAL AND DELIBERATIVE



0 30 60 90 120

SCALE: 1" = 30'

CONCEPTUAL TEMPORARY WORKS PLAN
SCALE: 1" = 30' ELEVATION DATUM NAVD88, CONTOUR 1'

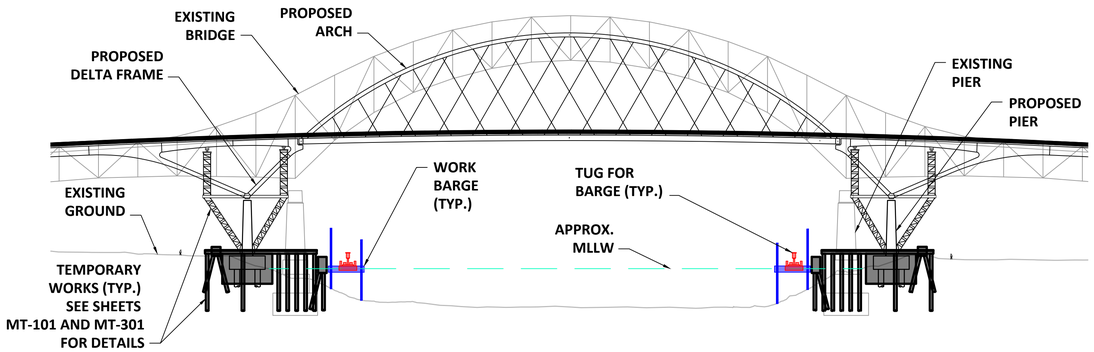
608020_BR(PERMIT_BORTEMPWORKS).DWG Plotted on 14-Aug-2024 8:37 AM

THE CAPE COD BRIDGES PROGRAM
BOURNE SOUTH - CONCEPTUAL TEMPORARY WORKS PLAN

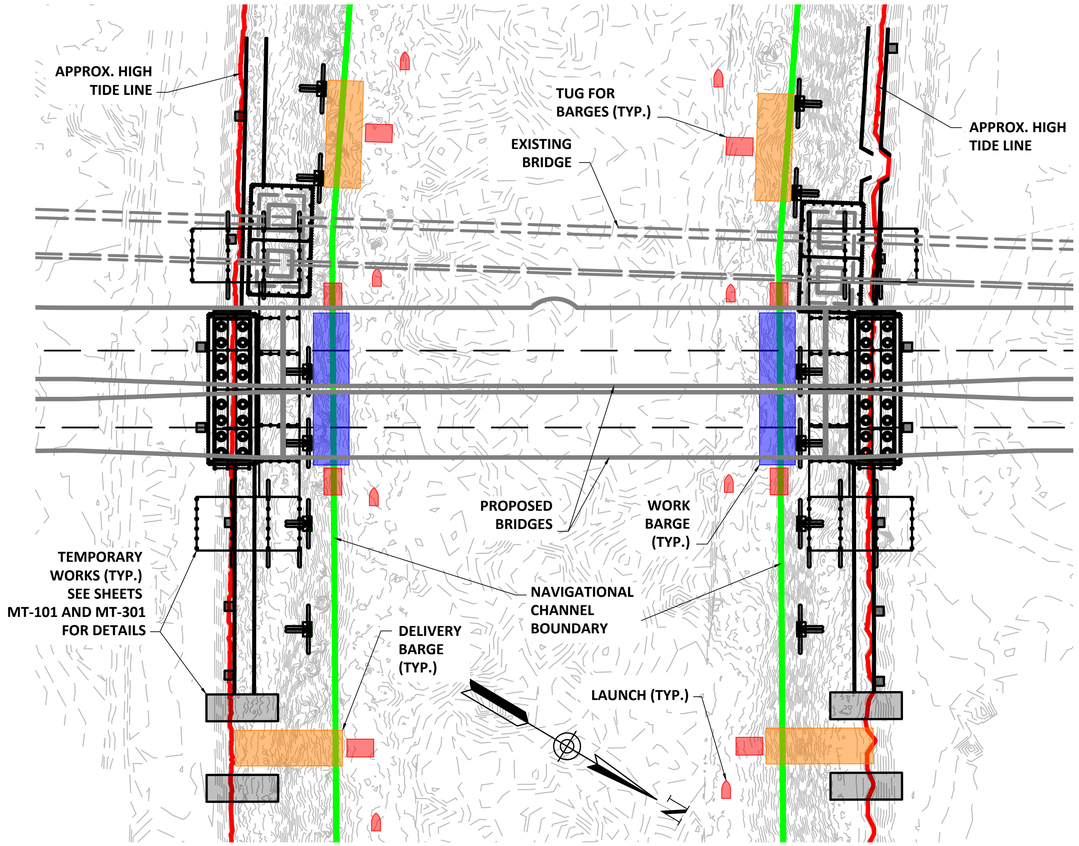
DRAFT

SCALE: 1" = 30'	HNTB		massDOT Massachusetts Department of Transportation Highway Division
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608020_BR\PERMIT_BOR\TEMPWORKS\.DWG Plotted on 14-Aug-2024 8:37 AM



CONCEPTUAL CONSTRUCTION VESSEL ELEVATION
SCALE: 1" = 80'



CONCEPTUAL CONSTRUCTION VESSEL PLAN
SCALE: 1" = 80' ELEVATION DATUM NAVD88, CONTOUR 1'

0 80 160 240 320
SCALE: 1" = 80'

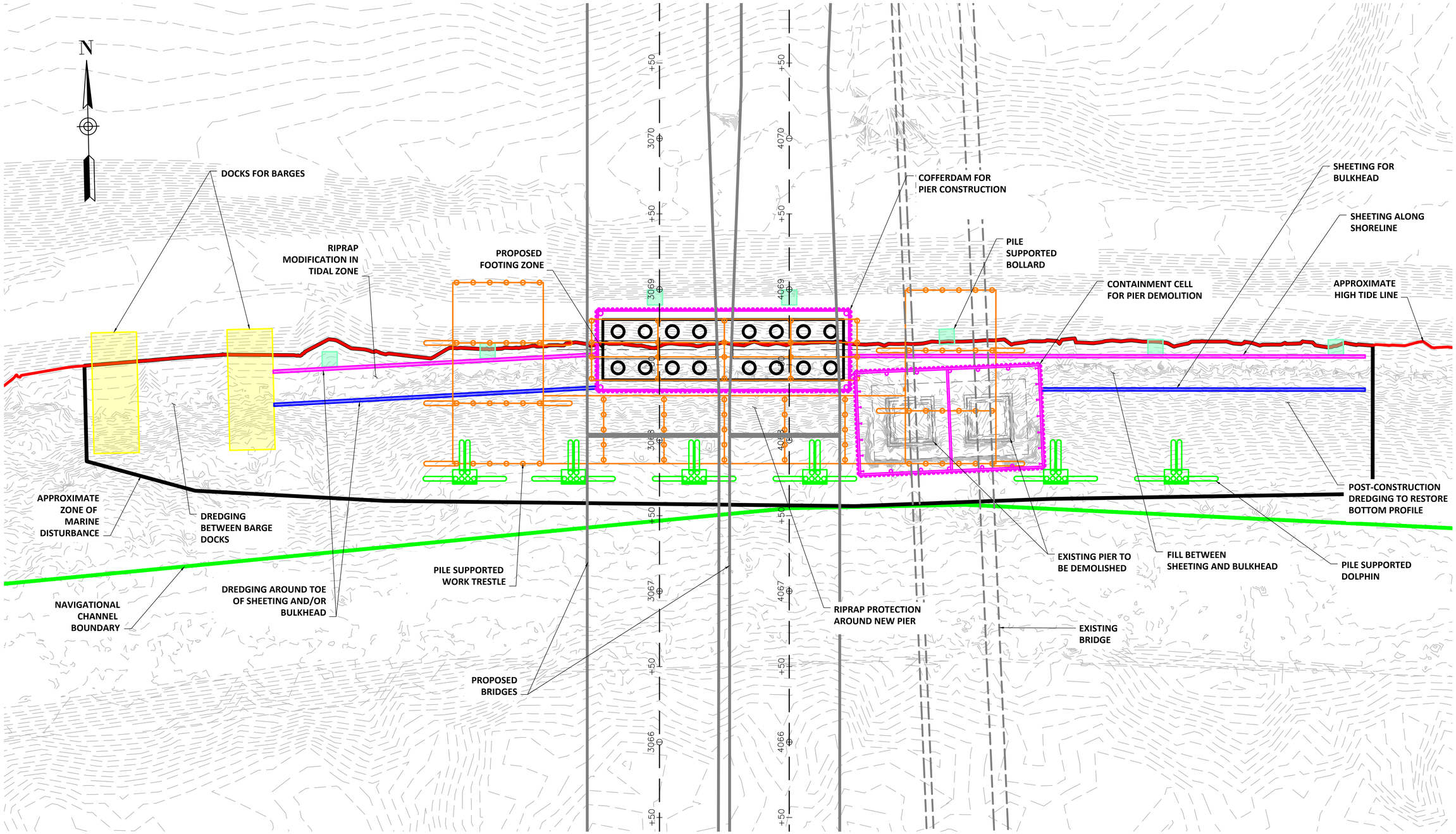
NOTE:
VESSEL LAYOUT SHOWN APPLIES TO DAY-TO-DAY CONSTRUCTION ONLY. VESSELS USED FOR FLOAT IN OF NEW ARCH OR FLOAT OUT OF EXISTING ARCH WILL DIFFER AND BE SIGNIFICANTLY LARGER.

THE CAPE COD BRIDGES PROGRAM
BOURNE BRIDGE - CONCEPTUAL CONSTRUCTION VESSEL LAYOUT

DRAFT

SCALE: 1" = 80'	HNTB	massDOT Highway Division	
DATE: 8/14/2024	DRAWN BY: PM	CHECKED BY: MTB	SHEET NO: MV-401

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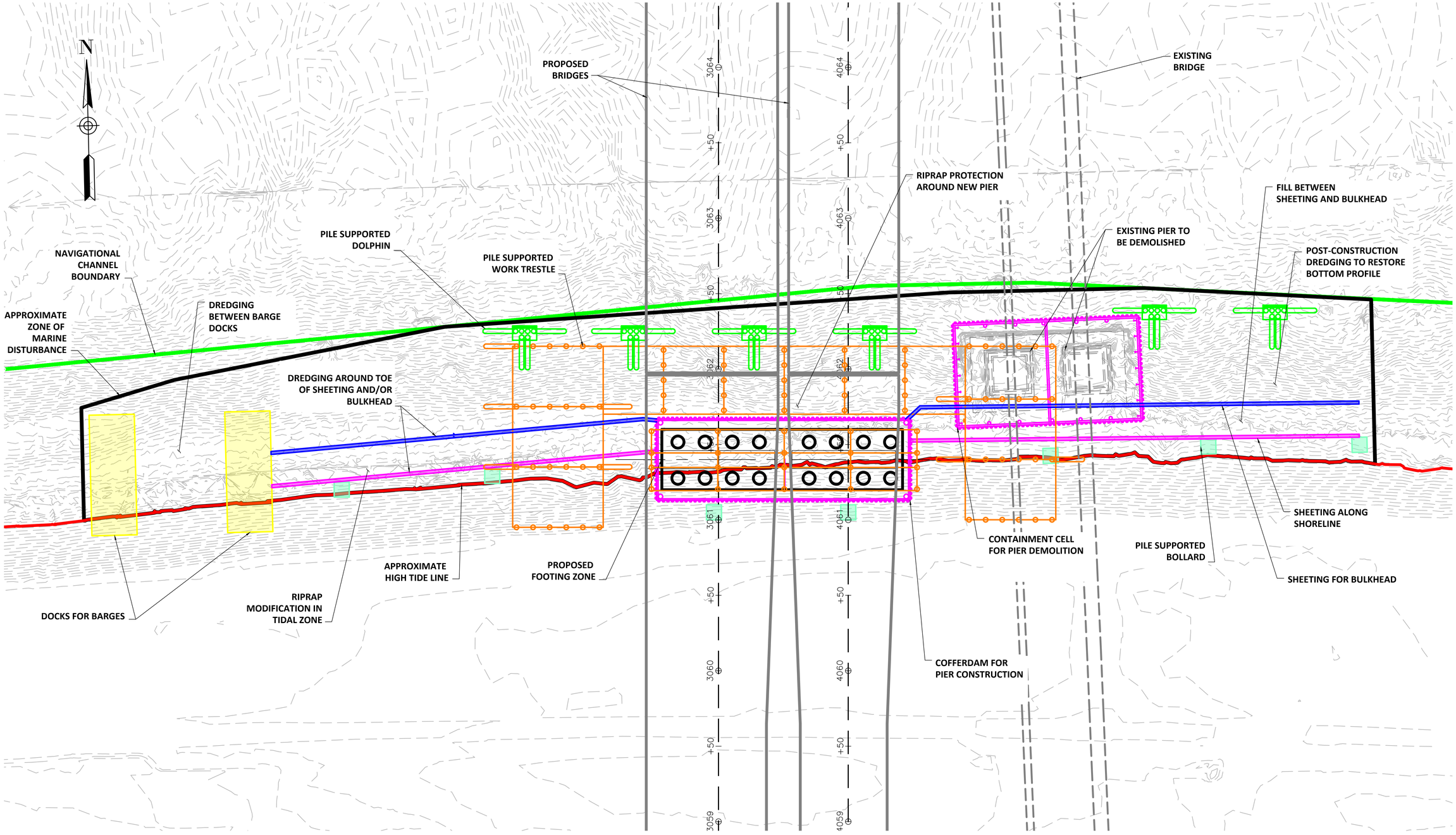
SCALE: 1" = 30'

CONCEPTUAL TEMPORARY WORKS PLAN
SCALE: 1" = 30' ELEVATION DATUM NAVD88, CONTOUR 1'

THE CAPE COD BRIDGES PROGRAM
SAGAMORE NORTH - CONCEPTUAL TEMPORARY WORKS PLAN

DRAFT

SCALE: 1" = 30'	HNTB		massDOT Massachusetts Department of Transportation Highway Division
DATE: 8/14/2024	DRAWN BY: PM	CHECKED BY: MTB	SHEET NO: MT-501



0 30 60 90 120

SCALE: 1" = 30'

CONCEPTUAL TEMPORARY WORKS PLAN
SCALE: 1" = 30' ELEVATION DATUM NAVD88, CONTOUR 1'

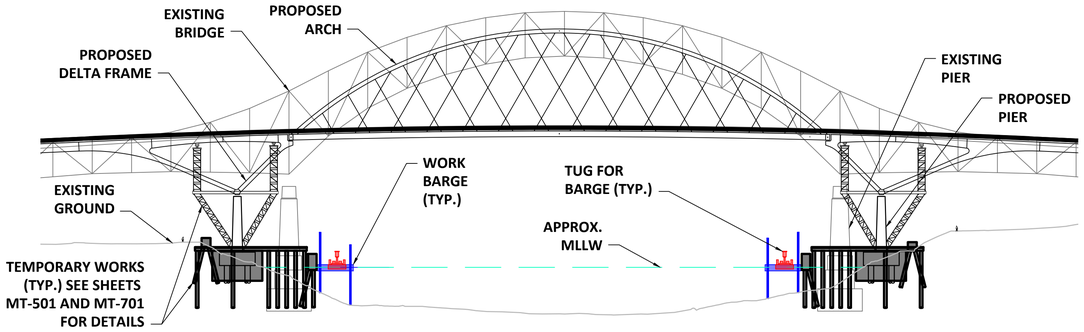
THE CAPE COD BRIDGES PROGRAM
SAGAMORE SOUTH - CONCEPTUAL TEMPORARY WORKS PLAN

DRAFT

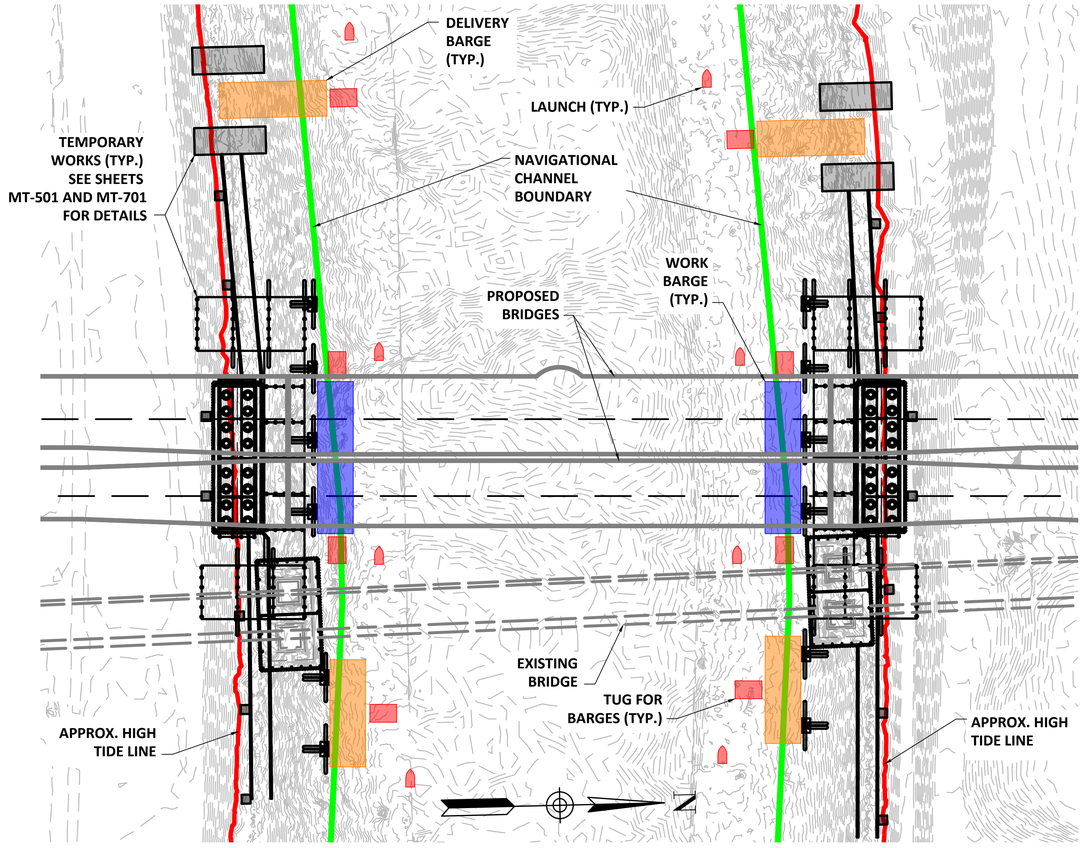
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608020_BR\PERMIT_SAGTEMPWORKS).DWG Plotted on 14-Aug-2024 8:37 AM



CONCEPTUAL CONSTRUCTION VESSEL ELEVATION
SCALE: 1" = 80'



CONCEPTUAL CONSTRUCTION VESSEL PLAN
SCALE: 1" = 80' ELEVATION DATUM NAVD88, CONTOUR 1'

0 80 160 240 320
SCALE: 1" = 80'

NOTE:
VESSEL LAYOUT SHOWN APPLIES TO DAY-TO-DAY CONSTRUCTION ONLY. VESSELS USED FOR FLOAT IN OF NEW ARCH OR FLOAT OUT OF EXISTING ARCH WILL DIFFER AND BE SIGNIFICANTLY LARGER.

THE CAPE COD BRIDGES PROGRAM
SAGAMORE BRIDGE - CONCEPTUAL CONSTRUCTION VESSEL LAYOUT

DRAFT

SCALE: 1" = 80'	HNTB	massDOT Massachusetts Department of Transportation Highway Division	
DATE: 8/14/2024	DRAWN BY: PM	CHECKED BY: MTB	SHEET NO: MV-801