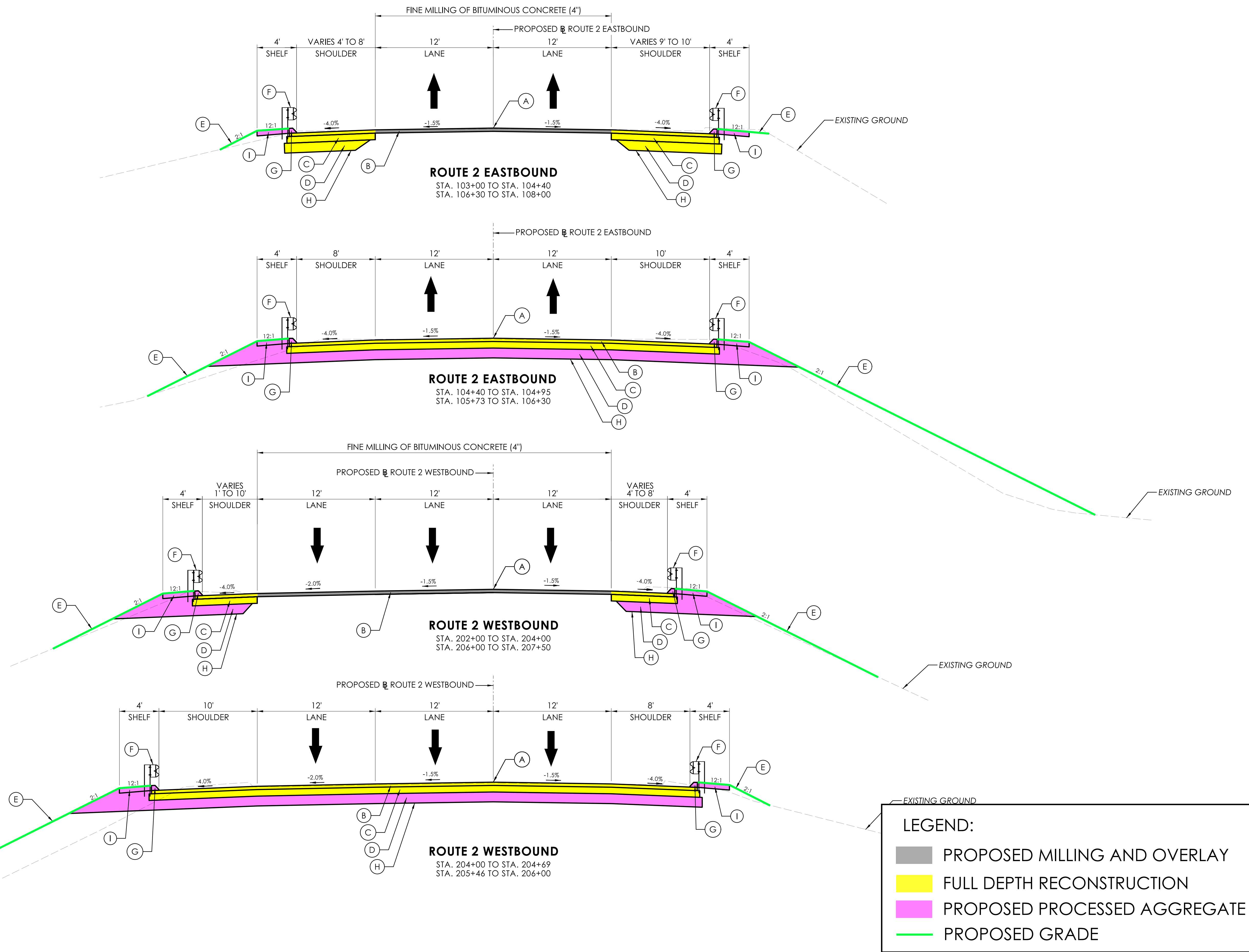
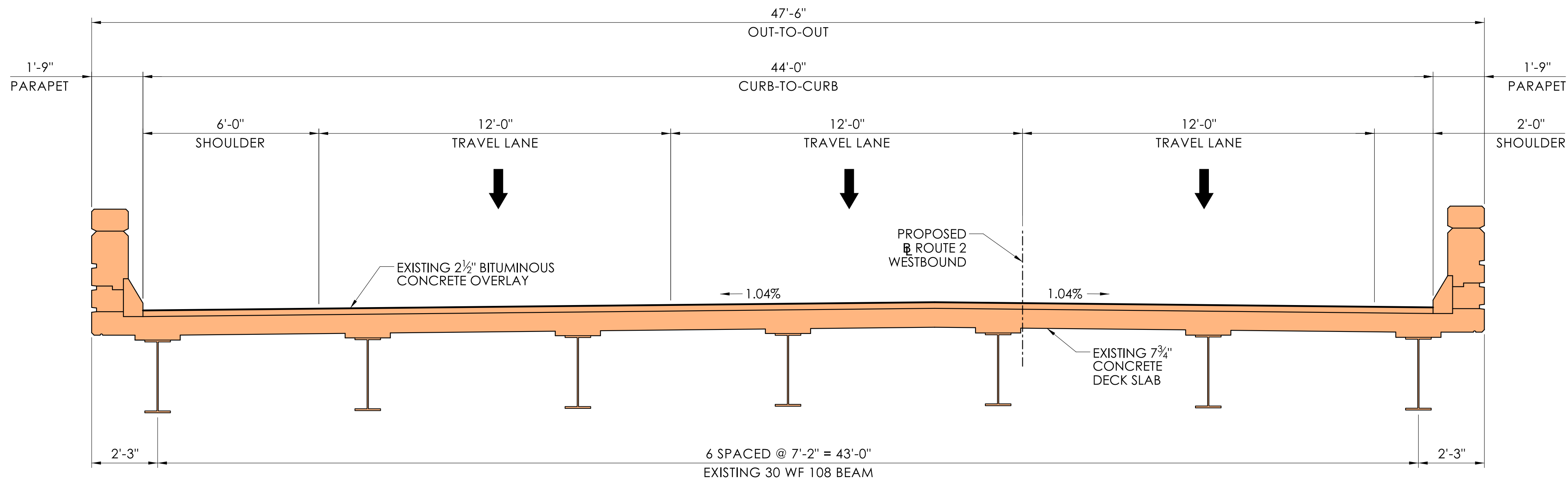
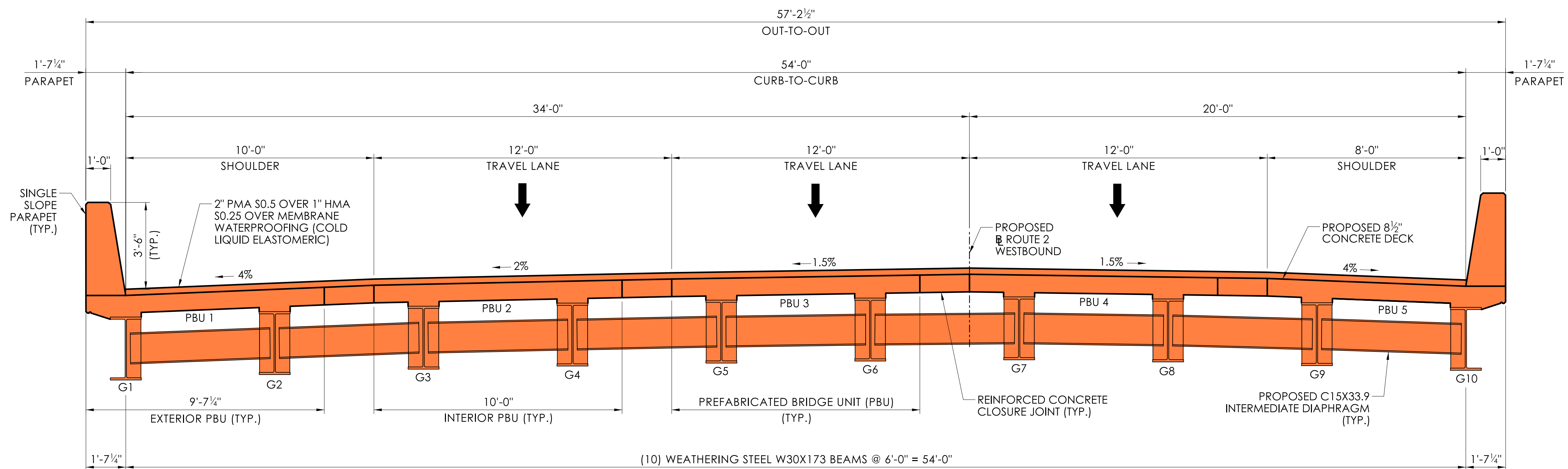




REV.	DATE	REVISION DESCRIPTION



EXISTING CROSS SECTION
SCALE: 3/8"=1'-0"



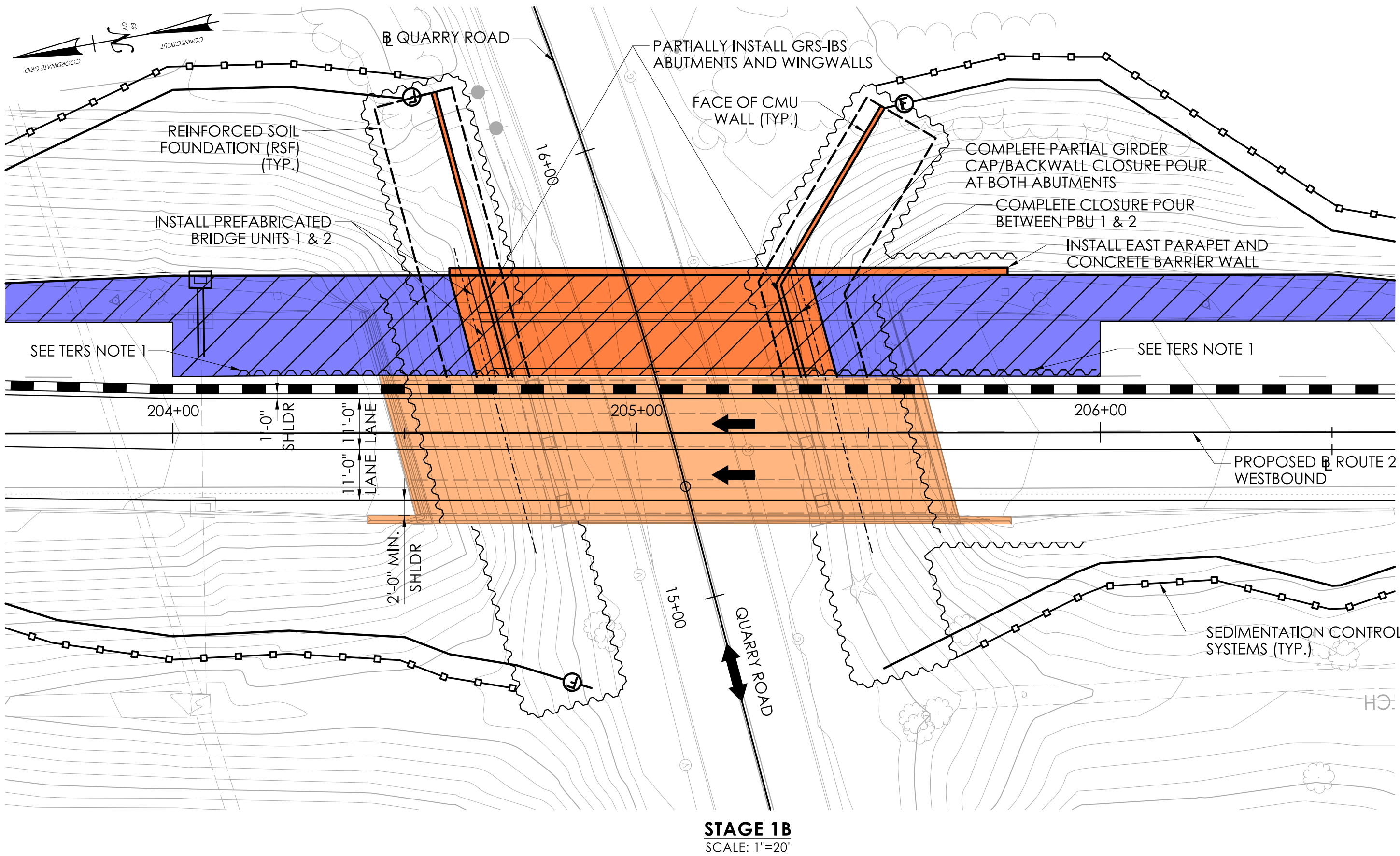
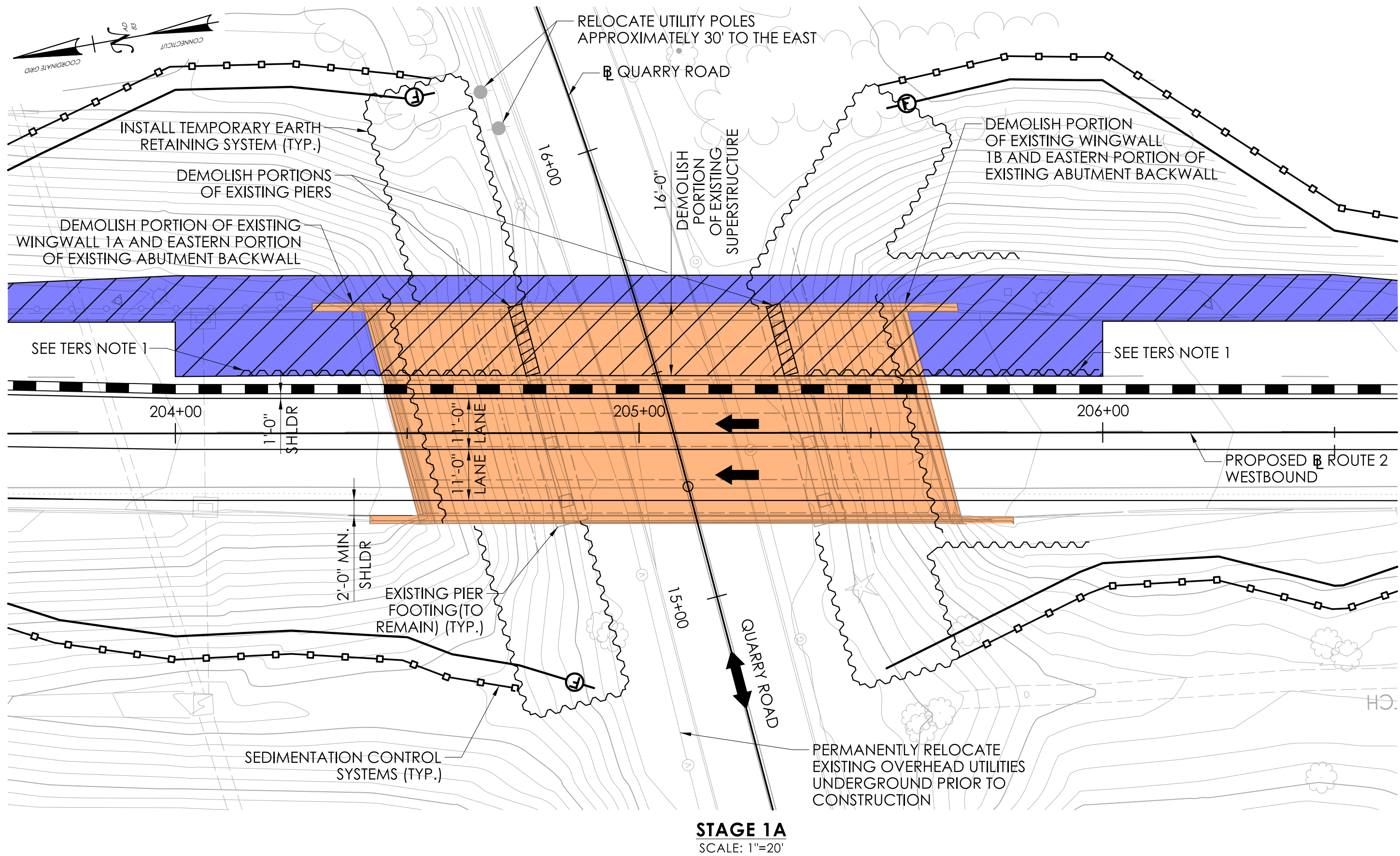
PROPOSED CROSS SECTION
SCALE: 3/8"=1'-0"

LEGEND:

- PROPOSED STRUCTURE
- EXISTING STRUCTURE

REV.	DATE	REVISION DESCRIPTION

SIGNATURE BLOCK:	PROJECT TITLE:	TOWN(S):	DRAWING TITLE:	PROJECT NO.:	DRAWING NO.:
DESIGNER/DRAFTER: H. COOPER CHECKED BY: M. HABEK	REPLACEMENT OF BRIDGE NO. 01702 ROUTE 2 WB OVER QUARRY ROAD	GLASTONBURY	CROSS SECTIONS	0053-0203	S-03
LASTED SAVED BY: hcooper PLOTTED DATE: 9/9/2024	FILE NAME: c:\pwwordin\benesch projects\projects\d0317872\58_CB_0053_0203_SEC.dgn				SHEET NO.: 04.03



SUGGESTED SEQUENCE OF CONSTRUCTION

ADVANCED WORK

- PERMANENTLY RELOCATE EXISTING OVERHEAD UTILITIES UNDERGROUND AND PERMANENTLY RELOCATE TWO EXISTING UTILITY POLES EAST OF THE BRIDGE (BY OTHERS). EXISTING LIGHTING CONDUIT ALONG EAST FASCIA SHALL BE MAINTAINED/REROUTED DURING CONSTRUCTION.
- CLEAR AND GRUB AND INSTALL SEDIMENTATION CONTROL SYSTEM.
- INSTALL MPT ON QUARRY ROAD UTILIZING ALTERNATING ONE-WAY TRAFFIC IN THE CENTER OF THE ROAD WITH TEMPORARY SIGNALS, SIGNAGE AND TEMPORARY TRAFFIC BARRIERS.
- INSTALL TEMPORARY EARTH RETAINING SYSTEMS IN FRONT OF EXISTING ABUTMENTS AND AROUND THE PROPOSED GRS-IBS WINGWALLS.
- EXCAVATE AND CONSTRUCT A PORTION OF THE PROPOSED GRS-IBS SUBSTRUCTURE BENEATH THE EXISTING SUPERSTRUCTURE BETWEEN THE EXISTING PIERS AND TEMPORARY EARTH RETAINING SYSTEM.

STAGE 1A

- INSTALL TEMPORARY SIGNAGE AND TEMPORARY TRAFFIC CONTROL DEVICES IN ACCORDANCE WITH DWG. NO. MPT-01-02.
- INSTALL TEMPORARY DEBRIS SHIELD (PAID FOR UNDER "REMOVAL OF SUPERSTRUCTURE"). DEBRIS SHIELD NOT TO BE BELOW EXISTING BEAM BOTTOM FLANGES.
- REMOVE THE EASTERN SECTION OF THE EXISTING BRIDGE SUPERSTRUCTURE (PAID FOR UNDER "REMOVAL OF SUPERSTRUCTURE").
- INSTALL TEMPORARY EARTH RETAINING SYSTEMS ALONG THE EAST EDGE OF THE ROUTE 2 WESTBOUND STAGE 1 TRAVELWAY TO ALLOW FOR REMOVAL OF EXISTING ABUTMENT BACKWALLS AND EXCAVATION BEHIND EXISTING ABUTMENTS.
- REMOVE EASTERN PORTIONS OF EXISTING ABUTMENT BACKWALLS AND EXISTING PIER CAPS/COLUMNS. PARTIALLY REMOVE EXISTING WINGWALLS 1A & 2A (PAID FOR UNDER "REMOVAL OF EXISTING MASONRY").

TERS NOTES:

- WHERE NOTED ON THE PLANS, TEMPORARY EARTH RETAINING SYSTEM (TERS) SHALL BE CUT 2 FEET BELOW FINISHED GRADE AND LEFT IN PLACE. COST OF MATERIAL LEFT IN PLACE SHALL BE INCLUDED UNDER THE ITEM "EARTH RETAINING SYSTEM LEFT IN PLACE."

CRANE AND ERECTION NOTES:

- THE CONTRACTOR SHALL EVALUATE ANY CRANE SURCHARGE ON EXISTING SUBSTRUCTURE ELEMENTS AND EXISTING UNDERGROUND UTILITIES.
- THE SUGGESTED SEQUENCE OF CONSTRUCTION REPRESENTS ONE POTENTIAL SCHEME. ALTERNATE CONSTRUCTION SCHEMES MAY BE USED WITH THE APPROVAL OF THE ENGINEER.
- THE COST OF THE CRANE, FOR REMOVAL OF THE SUPERSTRUCTURE, SHALL BE INCLUDED UNDER THE ITEM "REMOVAL OF SUPERSTRUCTURE."
- THE COST OF THE CRANE, FOR ERECTION OF THE SUPERSTRUCTURE, SHALL BE INCLUDED UNDER THE ITEM "PRECAST CONCRETE/STEEL COMPOSITE SUPERSTRUCTURE."

SUGGESTED SEQUENCE OF CONSTRUCTION

STAGE 1B

- COMPLETE CONSTRUCTION OF THE EASTERN PORTION OF PROPOSED GRS-IBS SYSTEMS.
- INSTALL PRECAST CONCRETE DISTRIBUTION SLABS (EASTERN PORTIONS ONLY).
- PLACE ELASTOMERIC BEARINGS AND ERECT PREFABRICATED BRIDGE UNITS 1 AND 2.
- INSTALL FORMWORK AND REINFORCEMENT AND POUR CONCRETE BACKWALL/GIRDER CAP AND CLOSURE POURS.
- INSTALL CAST-IN-PLACE BRIDGE PARAPET.
- INSTALL CAST-IN-PLACE CONCRETE BARRIER WALL.
- INSTALL MEMBRANE WATERPROOFING (COLD LIQUID ELASTOMERIC) AND INSTALL PAVEMENT.

LEGEND:

- WORK AREA
- PROPOSED STRUCTURE
- EXISTING STRUCTURE

REV.	DATE	REVISION DESCRIPTION

SIGNATURE BLOCK:	DESIGNER/DRAFTER: H. COOPER	CHECKED BY: M. HABEK
benesch		



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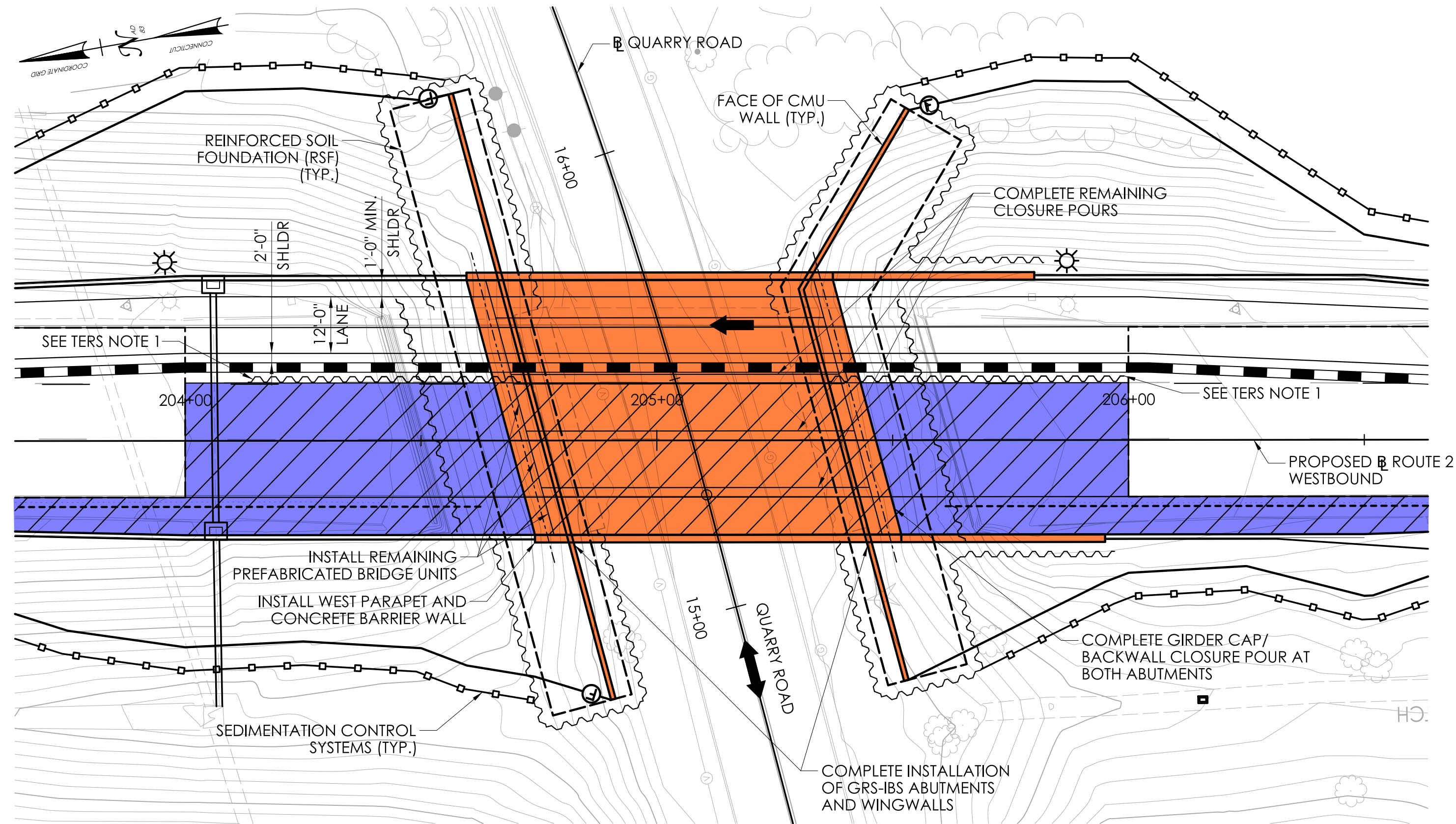
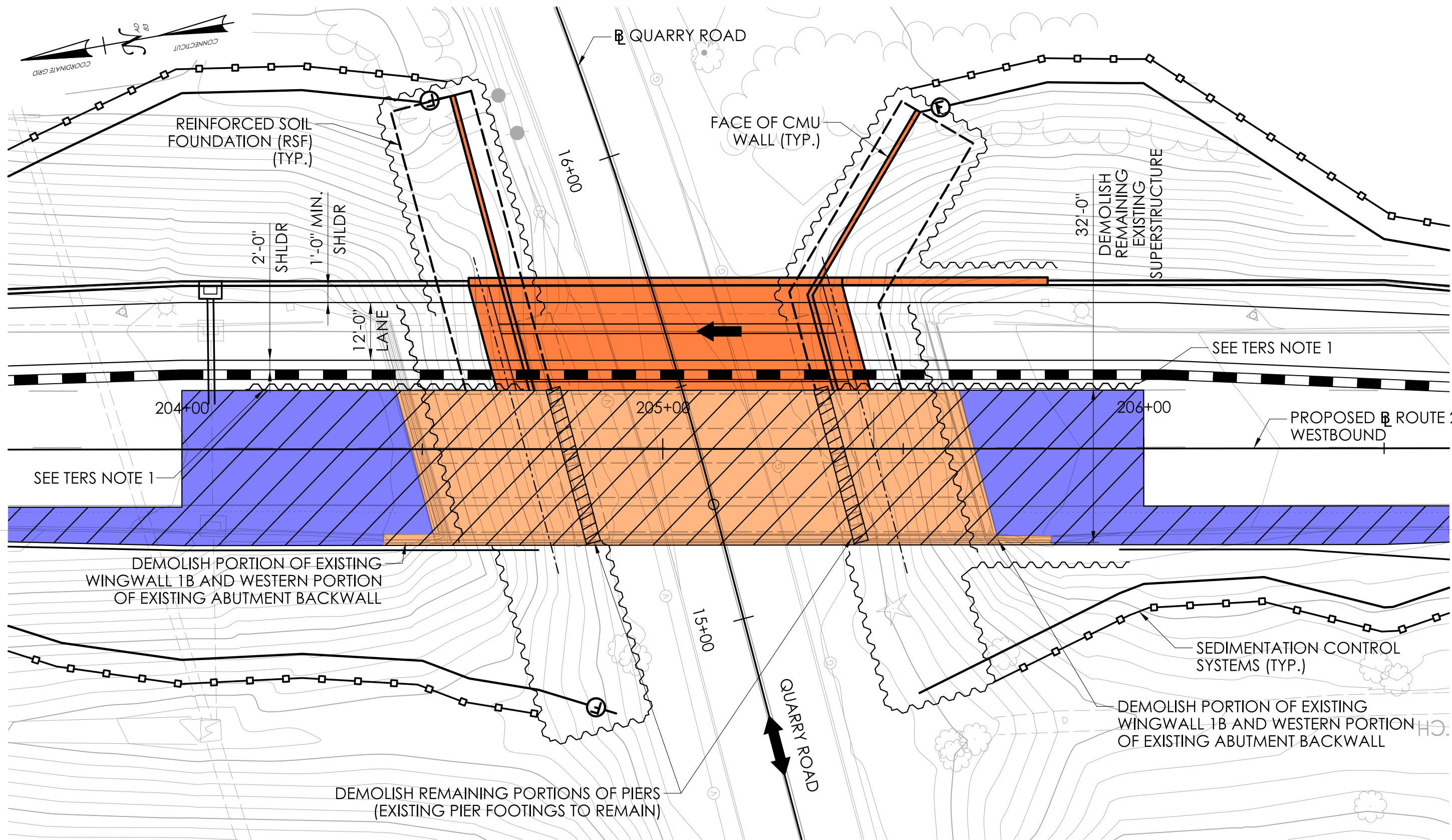
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TOWN(S):	GLASTONBURY
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DRAWING TITLE:	STAGE CONSTRUCTION 1A & 1B
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PROJECT NO.:	0053-0203
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DRAWING NO.:	S-04
SHEET NO.:	04.04



SUGGESTED SEQUENCE OF CONSTRUCTION

STAGE 2A

- RELOCATE TEMPORARY SIGNAGE AND TEMPORARY TRAFFIC CONTROL DEVICES IN ACCORDANCE WITH DWG. NO. MPT-02-02. DIRECT TRAFFIC TO THE EASTERN SECTION OF THE STRUCTURE CONSTRUCTED DURING STAGES 1A & 1B.
- REMOVE REMAINING SECTION OF THE EXISTING BRIDGE SUPERSTRUCTURE (PAID FOR UNDER "REMOVAL OF SUPERSTRUCTURE").
- REMOVE WESTERN PORTIONS OF EXISTING ABUTMENT BACKWALLS AND EXISTING PIER CAPS/COLUMNS. PARTIALLY REMOVE WINGWALLS 1B & 2B (PAID FOR UNDER "REMOVAL OF EXISTING MASONRY").

TERS NOTES:

- WHERE NOTED ON THE PLANS, TEMPORARY EARTH RETAINING SYSTEM (TERS) SHALL BE CUT 2 FEET BELOW FINISHED GRADE AND LEFT IN PLACE. COST OF MATERIAL LEFT IN PLACE SHALL BE INCLUDED UNDER THE ITEM "EARTH RETAINING SYSTEM LEFT IN PLACE."

CRANE AND ERECTION NOTES:

- THE CONTRACTOR SHALL EVALUATE ANY CRANE SURCHARGE ON EXISTING SUBSTRUCTURE ELEMENTS AND EXISTING UNDERGROUND UTILITIES.
- THE SUGGESTED SEQUENCE OF CONSTRUCTION REPRESENTS ONE POTENTIAL SCHEME. ALTERNATE CONSTRUCTION SCHEMES MAY BE USED WITH THE APPROVAL OF THE ENGINEER.
- THE COST OF THE CRANE, FOR REMOVAL OF THE SUPERSTRUCTURE, SHALL BE INCLUDED UNDER THE ITEM "REMOVAL OF THE SUPERSTRUCTURE."
- THE COST OF THE CRANE, FOR ERECTION OF THE SUPERSTRUCTURE, SHALL BE INCLUDED UNDER THE ITEM "PRECAST CONCRETE/STEEL COMPOSITE SUPERSTRUCTURE."

SUGGESTED SEQUENCE OF CONSTRUCTION

STAGE 2B

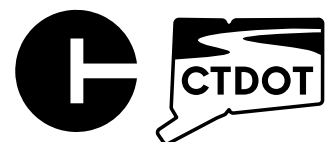
- EXCAVATE AND COMPLETE CONSTRUCTION OF THE PROPOSED GRS-IBS SYSTEMS.
- REMOVE TEMPORARY EARTH RETAINING SYSTEMS THAT ARE NOT TO REMAIN IN PLACE.
- INSTALL PRECAST CONCRETE DISTRIBUTION SLABS (WESTERN PORTIONS).
- PLACE ELASTOMERIC BEARINGS AND ERECT PREFABRICATED BRIDGE UNITS 3, 4, AND 5.
- INSTALL FORMWORK AND REINFORCEMENT AND POUR CONCRETE BACKWALL/GIRDER CAP AND CLOSURE POURS.
- INSTALL CAST-IN-PLACE BRIDGE PARAPET.
- INSTALL CAST-IN-PLACE CONCRETE BARRIER WALL.
- COMPLETE INSTALLATION OF ROADWAY DRAINAGE
- INSTALL MEMBRANE WATERPROOFING (COLD LIQUID ELASTOMERIC) AND INSTALL PAVEMENT.
- INSTALL ROADWAY GUIDERAILS AND FINAL PAVEMENT MARKINGS. SEE HIGHWAY SUBSET FOR DETAILS.
- PERFORM FINAL GRADING AND INSTALL PLANTINGS, SEEDING AND TURF ESTABLISHMENT.
- REMOVE SEDIMENTATION CONTROL SYSTEMS UPON PERMANENT STABILIZATION.
- REMOVE TEMPORARY SIGNAGE AND TRAFFIC CONTROL DEVICES, AND FULLY RE-OPEN ROUTE 2 WESTBOUND AND QUARRY ROAD TO TRAFFIC.

LEGEND:

- WORK AREA
- PROPOSED STRUCTURE
- EXISTING STRUCTURE

REV.	DATE	REVISION DESCRIPTION

SIGNATURE BLOCK:	
DESIGNER/DRAFTER: H. COOPER	CHECKED BY: M. HABEK



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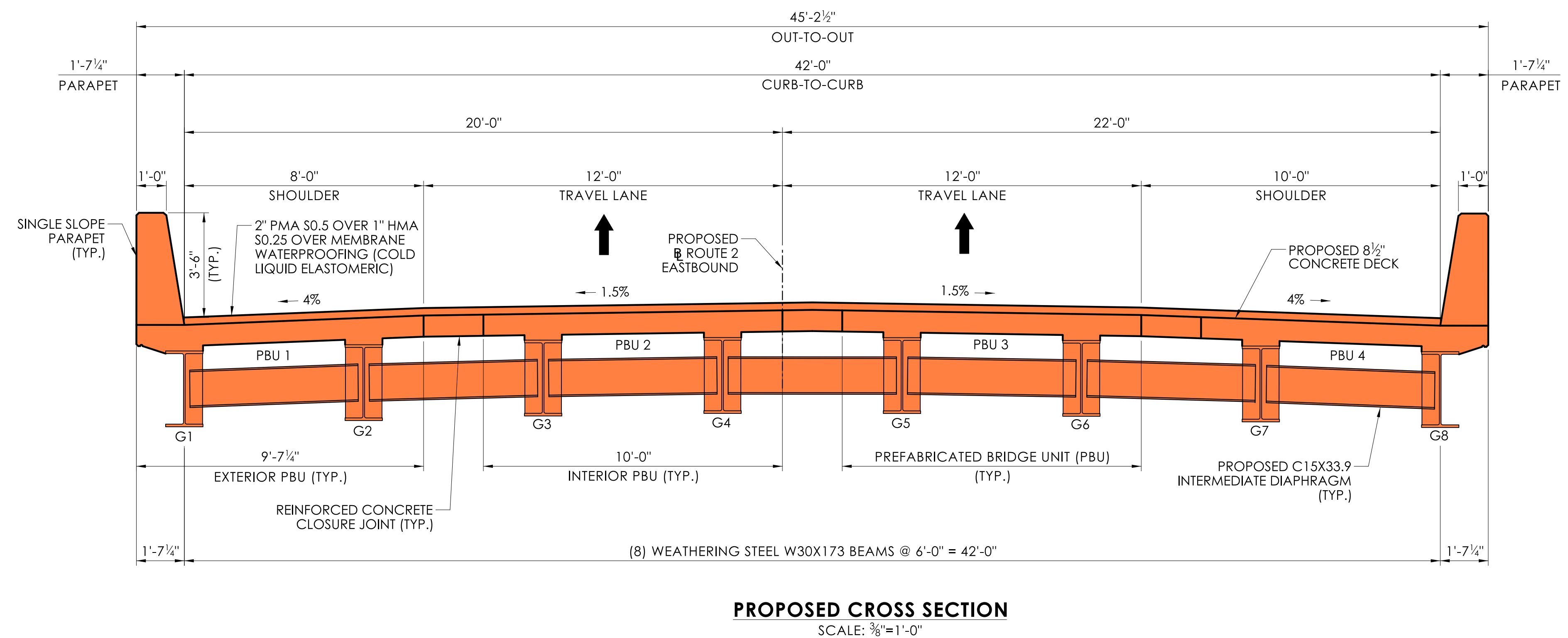
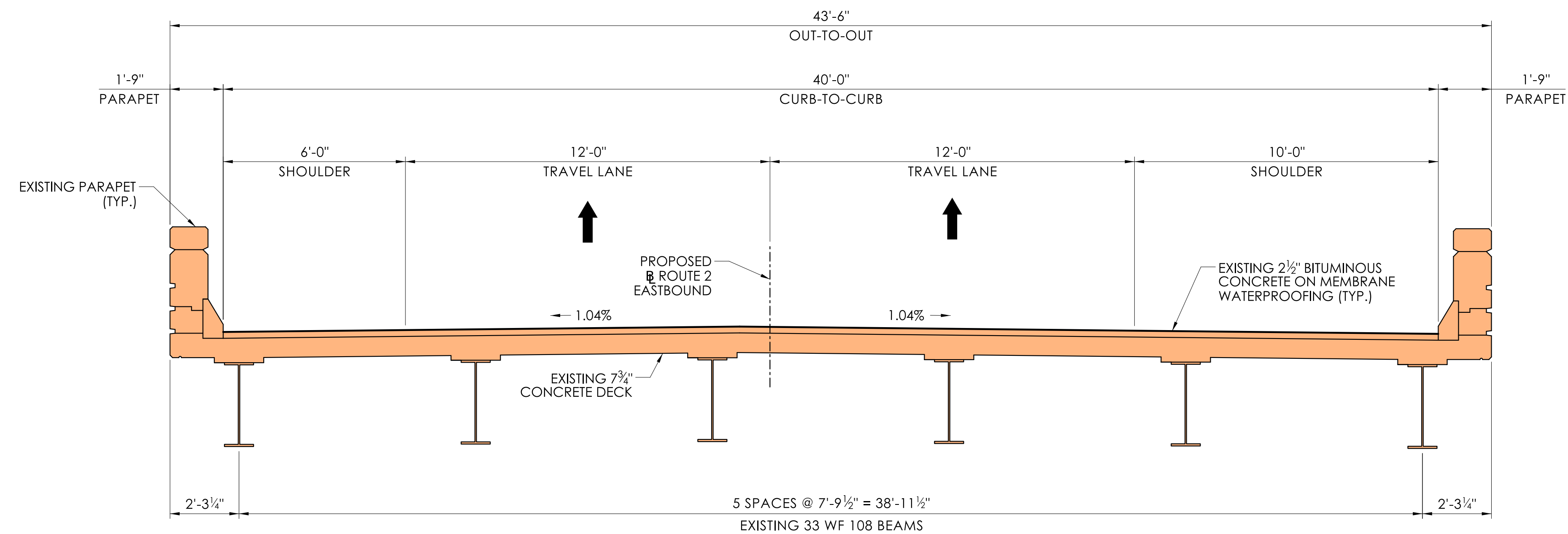
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**REPLACEMENT OF BRIDGE NO. 01702
ROUTE 2 WB OVER QUARRY ROAD**

TOWN(S):
GLASTONBURY

DRAWING TITLE:
**STAGE CONSTRUCTION
2A & 2B**

PROJECT NO.:
0053-0203

DRAWING NO.:
S-05
SHEET NO.:
04.05



LEGEND:

 PROPOSED STRUCTURE

EXISTING STRUCTURE

[illegible]

SIGNATURE BLOCK:

 **benesch**

DESIGNER/DRAFTER: H. COOPER CHECKED BY: M. HABEK



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DEPARTMENT OF
TRANSPORTATION

PROJECT TITLE:

REPLACEMENT OF BRIDGE NO. 01703 ROUTE 2 EB OVER QUARRY ROAD

TOWN(S):

GLASTONBURY

DRAWING TITLE:

CROSS SECTIONS

PROJECT NO.:

0053-0203	SH
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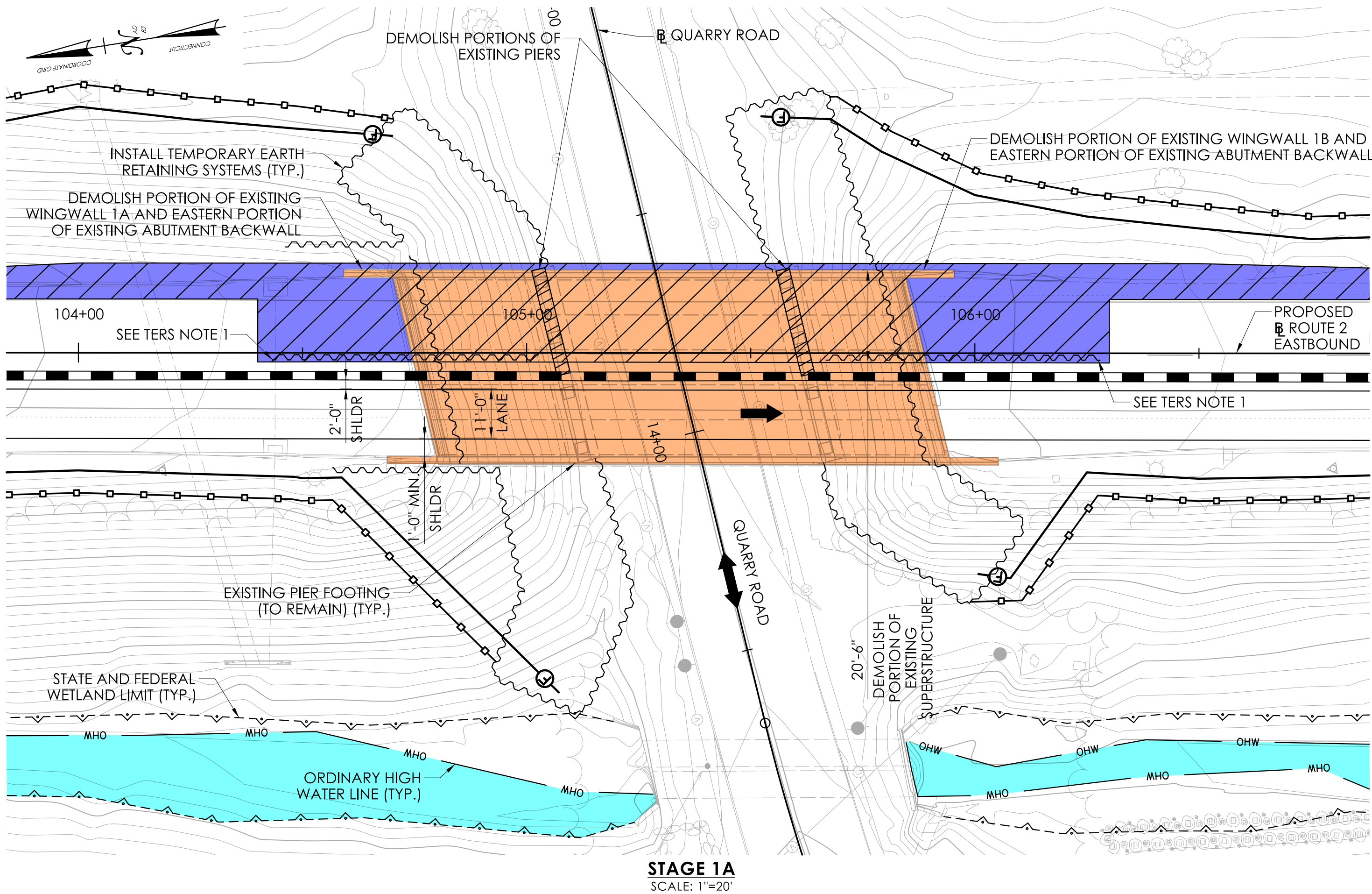
DRAWING NO.:

S-03

SHEET NO.:
05.03

05.03

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PLOTTED DATE: 9/9/2026



SUGGESTED SEQUENCE OF CONSTRUCTION

ADVANCED WORK

- PERMANENTLY RELOCATE EXISTING OVERHEAD UTILITIES UNDERGROUND (BY OTHERS). EXISTING LIGHTING CONDUIT ALONG THE WEST FASCIA SHALL BE MAINTAINED/REROUTED DURING CONSTRUCTION.
- CLEAR AND GRUB AND INSTALL SEDIMENTATION CONTROL SYSTEM.
- INSTALL MPT ON QUARRY ROAD UTILIZING ALTERNATING ONE-WAY TRAFFIC IN THE CENTER OF THE ROAD WITH TEMPORARY SIGNALS, SIGNAGE AND TEMPORARY TRAFFIC BARRIERS.
- INSTALL TEMPORARY EARTH RETAINING SYSTEMS IN FRONT OF EXISTING ABUTMENTS AND AROUND THE PROPOSED GRS-IBS WINGWALLS.
- EXCAVATE AND CONSTRUCT A PORTION OF THE PROPOSED GRS-IBS SUBSTRUCTURE BENEATH THE EXISTING SUPERSTRUCTURE BETWEEN THE EXISTING PIERS AND TEMPORARY EARTH RETAINING SYSTEM.

STAGE 1A

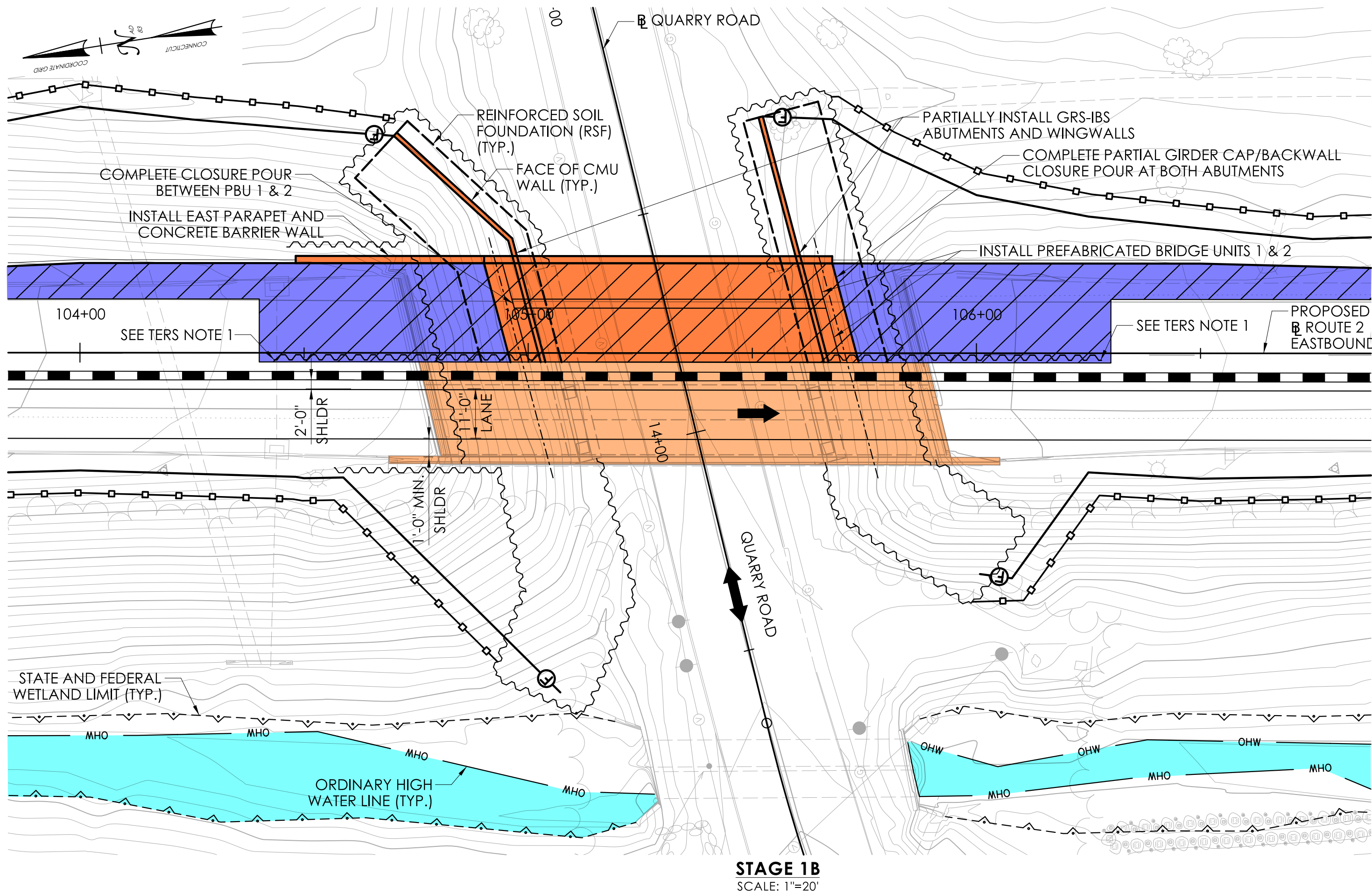
- INSTALL TEMPORARY SIGNAGE AND TEMPORARY TRAFFIC CONTROL DEVICES IN ACCORDANCE WITH DWG. NO. MPT-01-02
- INSTALL TEMPORARY DEBRIS SHIELD (PAID FOR UNDER "REMOVAL OF SUPERSTRUCTURE"). DEBRIS SHIELD NOT TO BE BELOW EXISTING BEAM BOTTOM FLANGES.
- REMOVE THE EASTERN SECTION OF THE EXISTING BRIDGE SUPERSTRUCTURE (PAID FOR UNDER "REMOVAL OF SUPERSTRUCTURE").
- INSTALL TEMPORARY EARTH RETAINING SYSTEMS ALONG THE EAST EDGE OF THE ROUTE 2 EASTBOUND STAGE 1 TRAVELWAY TO ALLOW FOR REMOVAL OF EXISTING ABUTMENT BACKWALLS AND EXCAVATION BEHIND EXISTING ABUTMENTS.
- REMOVE EASTERN PORTIONS OF EXISTING ABUTMENT BACKWALLS AND EXISTING PIER CAPS/COLUMNS. PARTIALLY REMOVE EXISTING WINGWALLS 1A & 2A (PAID FOR UNDER "REMOVAL OF EXISTING MASONRY").

TERS NOTES:

- WHERE NOTED ON THE PLANS, TEMPORARY EARTH RETAINING SYSTEM (TERS) SHALL BE CUT 2 FEET BELOW FINISHED GRADE AND LEFT IN PLACE. COST OF MATERIAL LEFT IN PLACE SHALL BE INCLUDED UNDER THE ITEM "EARTH RETAINING SYSTEM LEFT IN PLACE."

CRANE AND ERECTION NOTES:

- THE CONTRACTOR SHALL EVALUATE ANY CRANE SURCHARGE ON EXISTING SUBSTRUCTURE ELEMENTS AND EXISTING UNDERGROUND UTILITIES.
- THE SUGGESTED SEQUENCE OF CONSTRUCTION REPRESENTS ONE POTENTIAL SCHEME. ALTERNATE CONSTRUCTION SCHEMES MAY BE USED WITH THE APPROVAL OF THE ENGINEER.
- THE COST OF THE CRANE, FOR REMOVAL OF THE SUPERSTRUCTURE, SHALL BE INCLUDED UNDER THE ITEM "REMOVAL OF SUPERSTRUCTURE."
- THE COST OF THE CRANE, FOR ERECTION OF THE SUPERSTRUCTURE, SHALL BE INCLUDED UNDER THE ITEM "PRECAST CONCRETE/STEEL COMPOSITE SUPERSTRUCTURE."



SUGGESTED SEQUENCE OF CONSTRUCTION

STAGE 1B

- COMPLETE CONSTRUCTION OF THE EASTERN PORTION OF PROPOSED GRS-IBS SYSTEMS.
- INSTALL PRECAST CONCRETE DISTRIBUTION SLABS (EASTERN PORTIONS ONLY).
- PLACE ELASTOMERIC BEARINGS AND ERECT PREFABRICATED BRIDGE UNITS 1 & 2.
- INSTALL FORMWORK AND REINFORCEMENT AND POUR CONCRETE BACKWALL/GIRDER CAP AND CLOSURE POURS.
- INSTALL CAST-IN-PLACE BRIDGE PARAPET.
- INSTALL CAST-IN-PLACE CONCRETE BARRIER WALL.
- INSTALL MEMBRANE WATERPROOFING (COLD LIQUID ELASTOMERIC) AND INSTALL PAVEMENT.

LEGEND:

- WORK AREA
- PROPOSED STRUCTURE
- EXISTING STRUCTURE
- WATERCOURSE

REV.	DATE	REVISION DESCRIPTION

SIGNATURE BLOCK:	DESIGNER/DRAFTER: H. COOPER	CHECKED BY: M. HABEK
benesch		



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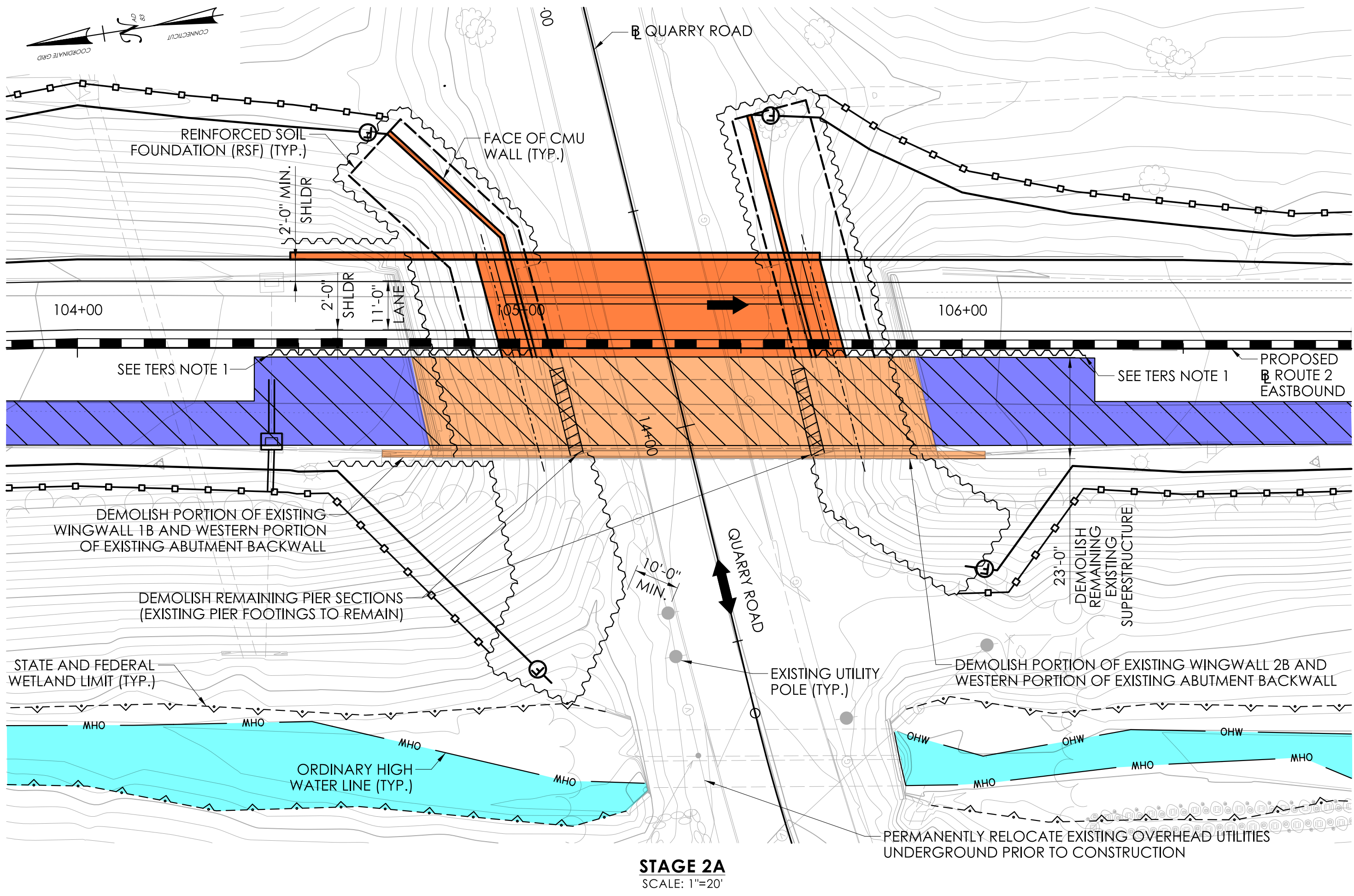
PROJECT TITLE:
**REPLACEMENT OF BRIDGE NO. 01703
ROUTE 2 EB OVER QUARRY ROAD**

TOWN(S):
GLASTONBURY

DRAWING TITLE:
**STAGE CONSTRUCTION
1A & 1B**

PROJECT NO.:
0053-0203

DRAWING NO.:
S-04
SHEET NO.:
05.04



SUGGESTED SEQUENCE OF CONSTRUCTION

STAGE 2A

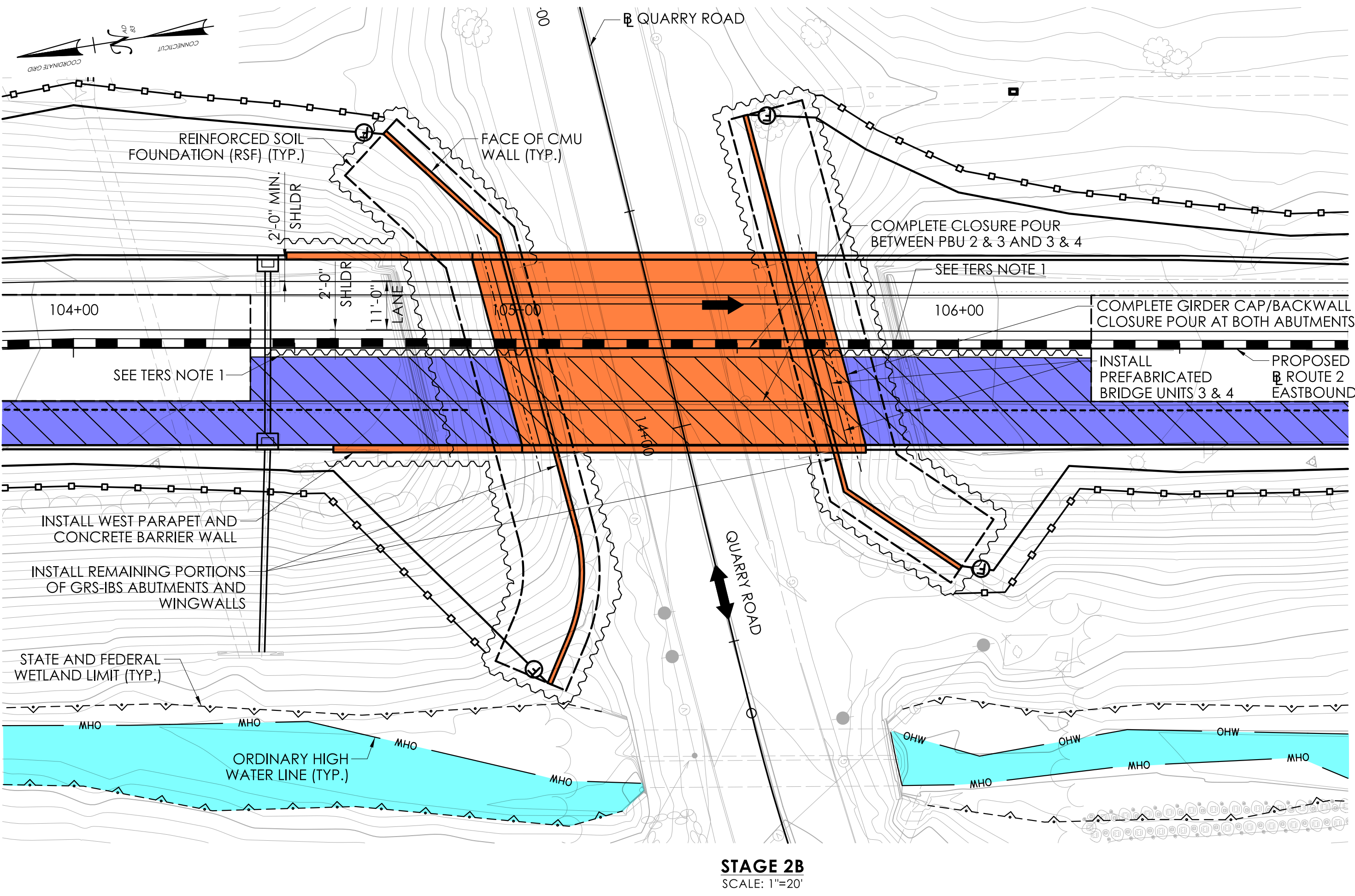
1. RELOCATE TEMPORARY SIGNAGE AND TEMPORARY TRAFFIC CONTROL DEVICES IN ACCORDANCE WITH DWG. NO. MPT-02-02. DIRECT TRAFFIC TO THE EASTERN SECTION OF THE STRUCTURE CONSTRUCTED DURING STAGES 1A & 1B.
2. REMOVE THE REMAINING SECTION OF THE EXISTING BRIDGE SUPERSTRUCTURE (PAID FOR UNDER "REMOVAL OF SUPERSTRUCTURE").
3. REMOVE WESTERN PORTIONS OF EXISTING ABUTMENT BACKWALLS AND EXISTING PIER CAPS/COLUMNS. PARTIALLY REMOVE WINGWALLS 1B & 2B (PAID FOR UNDER "REMOVAL OF EXISTING MASONRY").

TERS NOTES:

1. WHERE NOTED ON THE PLANS, TEMPORARY EARTH RETAINING SYSTEM (TERS) SHALL BE CUT 2 FEET BELOW FINISHED GRADE AND LEFT IN PLACE. COST OF MATERIAL LEFT IN PLACE SHALL BE INCLUDED UNDER THE ITEM "EARTH RETAINING SYSTEM LEFT IN PLACE."

CRANE AND ERECTION NOTES:

1. THE CONTRACTOR SHALL EVALUATE ANY CRANE SURCHARGE ON EXISTING SUBSTRUCTURE ELEMENTS AND EXISTING UNDERGROUND UTILITIES.
2. THE SUGGESTED SEQUENCE OF CONSTRUCTION REPRESENTS ONE POTENTIAL SCHEME. ALTERNATE CONSTRUCTION SCHEMES MAY BE USED WITH THE APPROVAL OF THE ENGINEER.
3. THE COST OF THE CRANE, FOR REMOVAL OF THE SUPERSTRUCTURE, SHALL BE INCLUDED UNDER THE ITEM "REMOVAL OF SUPERSTRUCTURE."
4. THE COST OF THE CRANE, FOR ERECTION OF THE SUPERSTRUCTURE, SHALL BE INCLUDED UNDER THE ITEM "PRECAST CONCRETE/STEEL COMPOSITE SUPERSTRUCTURE."



SUGGESTED SEQUENCE OF CONSTRUCTION

STAGE 2B

1. EXCAVATE AND COMPLETE CONSTRUCTION OF THE PROPOSED GRS-IBS SYSTEMS.
2. REMOVE TEMPORARY EARTH RETAINING SYSTEMS THAT ARE NOT TO REMAIN IN PLACE.
3. INSTALL PRECAST CONCRETE DISTRIBUTION SLABS (WESTERN PORTIONS).
4. PLACE ELASTOMERIC BEARINGS AND ERECT PREFABRICATED BRIDGE UNITS 3 & 4.
5. INSTALL FORMWORK AND REINFORCEMENT AND POUR CONCRETE BACKWALL/GIRDER CAP AND CLOSURE POURS.
6. INSTALL CAST-IN-PLACE BRIDGE PARAPET.
7. INSTALL CAST-IN-PLACE CONCRETE BARRIER WALL.
8. COMPLETE INSTALLATION OF ROADWAY DRAINAGE.
9. INSTALL MEMBRANE WATERPROOFING (COLD LIQUID ELASTOMERIC) AND INSTALL PAVEMENT.
10. INSTALL ROADWAY GUIDERAILS AND FINAL PAVEMENT MARKINGS. SEE HIGHWAY SUBSET FOR DETAILS.
11. PERFORM FINAL GRADING AND INSTALL PLANTINGS, SEEDING AND TURF ESTABLISHMENT.
12. REMOVE SEDIMENTATION CONTROL SYSTEMS UPON PERMANENT STABILIZATION.
13. REMOVE TEMPORARY SIGNAGE AND TRAFFIC CONTROL DEVICES, AND FULLY RE-OPEN ROUTE 2 EASTBOUND AND QUARRY ROAD TRAFFIC.

LEGEND:

- WORK AREA
- PROPOSED STRUCTURE
- EXISTING STRUCTURE
- WATERCOURSE

REV.	DATE	REVISION DESCRIPTION

SIGNATURE BLOCK:

DESIGNER/DRAFTER: H. COOPER

CHECKED BY: M. HABEK



CONNECTICUT
DEPARTMENT OF
TRANSPORTATION

PROJECT TITLE:

REPLACEMENT OF BRIDGE NO. 01703
ROUTE 2 EB OVER QUARRY ROAD

TOWN(S):

GLASTONBURY

DRAWING TITLE:

STAGE CONSTRUCTION
2A & 2B

PROJECT NO.:

0053-0203

DRAWING NO.:

S-05

SHEET NO.:

05.05