



THE GOLD STAR
MEMORIAL HIGHWAY

MAINE TURNPIKE AUTHORITY

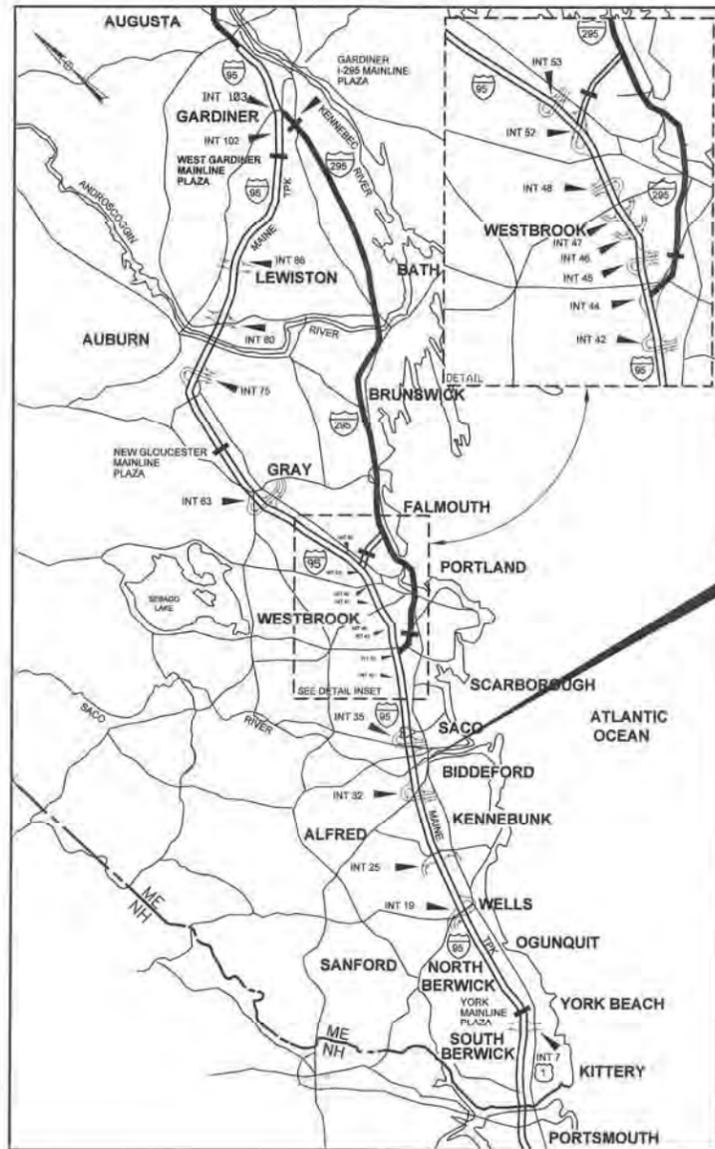
DANIEL E. WATHEN, CHAIR
DIANE M. DOYLE, VICE CHAIR
GERARD P. CONLEY, SR., MEMBER
JAMES F. CLOUTIER, MEMBER
JOHN E. DORITY, MEMBER
ROBERT D. STONE, MEMBER
BRUCE A. VAN NOTE, MEMBER EX-OFFICIO

S. PETER MILLS, EXECUTIVE DIRECTOR

CONTRACT 2014.04 SACO RIVER BRIDGE PAINTING (MILE 33.0)

INDEX OF SHEETS

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CONTRACT 2014.04
SACO RIVER BRIDGE PAINTING
(MILE 33.0)

LOCATION MAP

APPROVED: MAINE TURNPIKE AUTHORITY

Peter S. Merfeld
PETER S. MERFELD, P.E. - CHIEF OPERATIONS OFFICER

01-23-14
DATE

Stephen R. Tartre
STEPHEN R. TARTRE, P.E. - DIRECTOR OF ENGINEERING &
BUILDING MAINTENANCE

1/23/14
DATE

HNTB



Roland A. Lavallee
ROLAND A. LAVALLEE, P.E., PLS
VICE PRESIDENT
DIRECTOR OF OPERATIONS

1/23/14
DATE

Date: 06/15/12

Filename: 001_MTA>Title.dgn

SPECIFICATIONS

DESIGN
AASHTO LRFD BRIDGE DESIGN SPECIFICATIONS, 6TH EDITION, 2012.

CONSTRUCTION
STATE OF MAINE, DEPARTMENT OF TRANSPORTATION STANDARD SPECIFICATIONS, HIGHWAYS AND BRIDGES, REVISION OF DECEMBER 2002.

STATE OF MAINE DEPARTMENT OF TRANSPORTATION STANDARD DETAILS FOR HIGHWAYS AND BRIDGES, REVISION OF DECEMBER 2002, WITH ALL REVISIONS THERETO.
AASHTO LRFD BRIDGE CONSTRUCTION SPECIFICATIONS, 3RD. EDITION WITH 2010 INTERIMS.

DESIGN LOADING

LIVE LOAD - HL-93

MATERIALS

STRUCTURAL STEEL
HIGH STRENGTH BOLTS SHALL BE AASHTO M164 (ASTM A325) HOT DIP GALVANIZED IN STANDARD HOLES.

PROTECTIVE COATING
SELECTED GIRDERS SHALL BE PAINTED AS OUTLINED IN PLANS IN ACCORDANCE WITH SPECIAL PROVISION, SECTION 506, PROTECTIVE COATING.

BASIC DESIGN STRESSES

STRUCTURAL STEEL
AASHTO M270 (ASTM 709) GRADE 36, Fy = 36,000 P.S.I.
AASHTO M270 (ASTM 709) GRADE 50, Fy = 50,000 P.S.I.

LIST OF ABBREVIATIONS

ABUT. - ABUTMENT
ADDL. - ADDITIONAL
ALT. - ALTERNATE
APPROX. - APPROXIMATELY
BOT. - BOTTOM
BRG. - BEARING
CL - CENTERLINE
CL - CLEAR
CONC. - CONCRETE
CONSTR. - CONSTRUCTION
DEMO. - DEMOLITION/DIA. - DIAMETER
EA. - EACH
EB - EASTBOUND
E.F. - EACH FACE
EL - ELEVATION
EQ. - EQUAL
EXIST. - EXISTING
EXP. - EXPANSION
F.F. - FAR FACE
H.S. - HIGH STRENGTH
JT. - JOINT
LLH - LONG LEGHORIZONTAL
LLV - LONG LEG VERTICAL
MAX. - MAXIMUM
MIN. - MINIMUM
MTA - MAINE TURNPIKE AUTHORITY
NB - NORTHBOUND
N.F. - NEAR FACE
N.T.S. - NOT TO SCALE
PL - PLATE

LIST OF ABBREVIATIONS

PGL - PROFILE GRADE LINE
PROP. - PROPOSED
RAD. - RADIUS
REQ'D - REQUIRED
RDWY. - ROADWAY
SB - SOUTHBOUND
SHLDR. - SHOULDER
SP. - SPACES
STA. - STATION
TPKE. - TURNPIKE
TYP. - TYPICAL
U.O.N. - UNLESS OTHERWISE NOTED
WB - WESTBOUND
W.P. - WORKING POINT

NOTES:

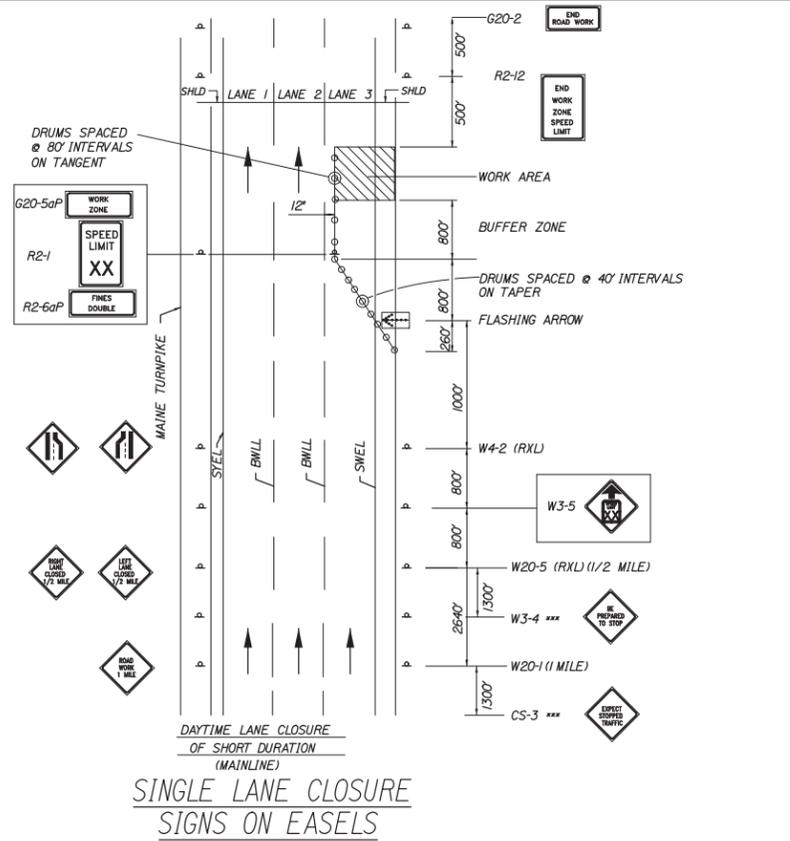
- ALL DETAILS SHALL BE IN CONFORMANCE WITH MAINE DEPARTMENT OF TRANSPORTATION (MDOT) STANDARD DETAILS HIGHWAYS AND BRIDGES, LATEST REVISION, AND MDT BEST MANAGEMENT PRACTICES FOR EROSION AND SEDIMENT CONTROL, LATEST REVISION, UNLESS OTHERWISE SPECIFIED IN THE CONTRACT DOCUMENTS.
- THE CONTRACTOR SHALL SUBMIT HIS PROPOSED STAGING AREA(S) TO THE RESIDENT FOR APPROVAL PRIOR TO STARTING WORK.
- THE CONTRACTOR SHALL TAKE ALL NECESSARY PRECAUTIONS TO PREVENT TOOLS, VEHICLES, EQUIPMENT, MATERIALS AND PERSONNEL FROM MARRING THE PAVEMENT SURFACE ON THE BRIDGE DECK AND APPROACHES WHILE THE WORK IS BEING COMPLETED.
- THE PROPOSED ELEVATIONS ARE BASED ON THE NAVD 88 DATUM. THE AS-BUILT PLANS ARE BASED ON DATUM NAVD 29 .
- FINAL PAVEMENT MARKING LINES ON THE MAINE TURNPIKE SHALL BE INSTALLED BY THE MAINE TURNPIKE AUTHORITY.
- CONTRACTOR SHALL FIELD VERIFY ALL NECESSARY INFORMATION AS SPECIFIED HEREIN PRIOR TO SHOP DRAWING SUBMITTAL.
- THE ANTICIPATED EROSION CONTROL DEVICES ARE SHOWN ON THE PLANS. THE CONTRACTOR SHALL SUBMIT THE PROPOSED TYPE AND LOCATION OF DEVICES TO THE RESIDENT FOR APPROVAL. ADDITIONAL MEASURES MAY BE PROPOSED BY THE CONTRACTOR DUE TO SITE OR WEATHER CONDITIONS. THE RESIDENT MAY DIRECT THE CONTRACTOR TO IMPLEMENT ADDITIONAL MEASURES. ANY ADDITIONAL MEASURES APPROVED BY THE RESIDENT WILL BE MEASURED FOR PAYMENT.
- NEWLY DISTURBED EARTH SHALL BE MULCHED BY THE END OF EACH WORK DAY. MULCH SHALL BE MAINTAINED ON A DAILY BASIS. THIS WORK SHALL BE PAID FOR UNDER ITEM 619.1202 TEMPORARY MULCH.
- ALL TEMPORARY AND PERMANENT EROSION CONTROL DEVICES SHALL BE INSTALLED IN ACCORDANCE WITH THE MAINE DEPARTMENT OF TRANSPORTATION BEST MANAGEMENT PRACTICES.
- AT THE END OF EACH WORK DAY, THE CONTRACTOR IS REQUIRED TO HAVE AN APPROVED CRASHWORTHY END TREATMENT ON ALL GUARDRAIL AND CONCRETE BARRIER WITHIN ALL WORK AREAS THAT ARE ACCESSIBLE TO TRAFFIC.
- THE CONTRACTOR SHALL SET, MAINTAIN AND REMOVE NAVIGATIONAL AIDS IN THE RIVER, AS REQUESTED BY THE RESIDENT. THE NAVIGATIONAL AIDS, FURNISHED BY THE STATE OF MAINE TO THE AUTHORITY, SHALL BE POSITIONED TO ADVISE BOATERS OF THE CONSTRUCTION HAZARDS AHEAD. ADDITIONAL NAVIGATIONAL AIDS MAY BE NEEDED DEPENDING ON CONTRACTOR ACTIVITIES. PAYMENT FOR OBTAINING, SETTING, MAINTAINING AND REMOVING THE NAVIGATIONAL AIDS WILL BE MADE USING THE APPROPRIATE HOURLY PAY ITEMS INCLUDED IN THE CONTRACT.
- COPIES OF THE AS-BUILT PLANS ARE ON FILE AT THE MAINE TURNPIKE AUTHORITY. A PORTION OF THESE PLANS ARE INCLUDED IN THIS CONTRACT FOR THE CONTRACTOR'S CONVENIENCE. THE COMPLETENESS AND ACCURACY OF THESE PLANS IS NOT GUARANTEED.
- ALL PAVEMENT MARKINGS IN CONFLICT WITH PROPOSED MAINTENANCE OF TRAFFIC MARKINGS SHALL BE COVERED WITH TEMPORARY 6 INCH BLACK PAVEMENT MARKING TAPE. THERE SHALL BE NO GRINDING OF ANY PAVEMENT MARKINGS.
- THE CONTRACTOR SHALL NOTE THAT HEAVY POISON IVY GROWTH HAS BEEN OBSERVED NEAR THE ABUTMENTS OF THE SACO RIVER BRIDGES. THE AUTHORITY APPLIED AN HERBICIDE TO THE POISON IVY IN 2012. IT IS NOT KNOWN WHAT EFFECT THE SPRAYING HAD ON THE PLANTS.

ITEM NO.	ITEM DESCRIPTION	UNIT	TOTAL QUANTITY
202.206	Removing Rumble Strips	LF	1,920
504.81	Remove Rivet and Replace with High-Strength Bolt	EA	50
506.141	Field Painting of Existing Structural Steel Girders	LS	1
506.17	Surface Preparation of Existing Structural Steel Girders	LS	1
506.9108	Containment System and Pollution Control	LS	1
506.9109	Disposal of Hazardous or Toxic Material	LS	1
506.9110	Containment, Prep, Disposal and Painting of Beam Ends	LS	1
526.306	Temporary Concrete Barrier, Type 1 - Supplied by the Authority (1650 LF)	LS	1
527.341	Work Zone Crash Cushions - TL3	Unit	2
619.1202	Temporary Mulch	LS	1
627.73	Temporary 6 Inch Pavement Marking Tape	LF	19,600
627.731	Temporary 6 Inch Black Pavement Marking Tape	LF	6,320
629.05	Hand Labor, Straight Time	HR	20
631.10	Air Compressor (including operator)	HR	5
631.11	Air Tool (including operator)	HR	5
631.171	Truck - small (including operator)	HR	5
631.36	Foreman	HR	10
652.30	Flashing Arrow	EA	2
652.312	Type III Barricades	EA	4
652.33	Drum	EA	220
652.35	Construction Signs	SF	1,300
652.361	Maintenance of Traffic Control Devices	LS	1
652.41	Portable - Changeable Message Sign	EA	2
652.45	Truck Mounted Attenuator	CD	100
659.10	Mobilization	LS	1

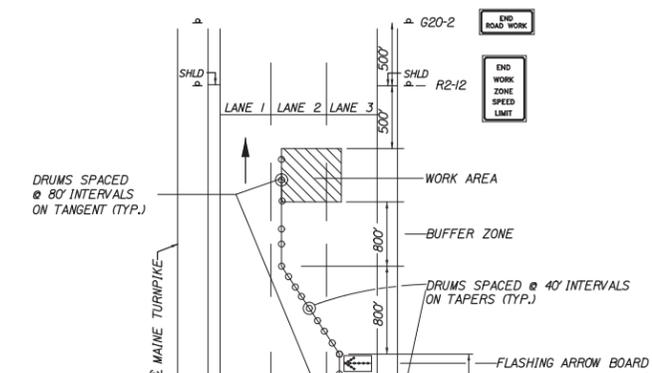
Filename: 002_GeneralNotes.dgn

Scale:	Designed by:	HNTB CORPORATION 340 County Road, Suite 6-C Westbrook, ME 04092 TEL (207) 774-5155 FAX (207) 228-0909		THE GOLD STAR MEMORIAL HIGHWAY	SACO RIVER BRIDGE PAINTING GENERAL NOTES AND ESTIMATED QUANTITIES SHEET NUMBER: GN-01																		
<table border="1" style="width: 100%; border-collapse: collapse;"> <thead> <tr> <th>No.</th> <th>Revision</th> <th>By</th> <th>Date</th> </tr> </thead> <tbody> <tr><td> </td><td> </td><td> </td><td> </td></tr> <tr><td> </td><td> </td><td> </td><td> </td></tr> <tr><td> </td><td> </td><td> </td><td> </td></tr> </tbody> </table>		No.	Revision	By	Date													CONSULTANT PROJECT MANAGER: Tim Cote, P.E.		CONTRACT: 2014.04			
No.	Revision	By	Date																				
<table border="1" style="width: 100%; border-collapse: collapse;"> <thead> <tr> <th> </th> <th>By</th> <th>Date</th> <th> </th> <th>By</th> <th>Date</th> </tr> </thead> <tbody> <tr> <td>Designed</td> <td>CAH</td> <td>01/14</td> <td>Checked</td> <td>TRC</td> <td>01/14</td> </tr> <tr> <td>Drawn</td> <td>MPC</td> <td>01/14</td> <td>In Charge of</td> <td>RAL</td> <td>01/14</td> </tr> </tbody> </table>			By	Date		By	Date	Designed	CAH	01/14	Checked	TRC	01/14	Drawn	MPC	01/14	In Charge of	RAL	01/14	MTA PROJECT MANAGER: Kristi Van Ooyen, P.E.		2 OF 13	
	By	Date		By	Date																		
Designed	CAH	01/14	Checked	TRC	01/14																		
Drawn	MPC	01/14	In Charge of	RAL	01/14																		

Date: 1/21/2014

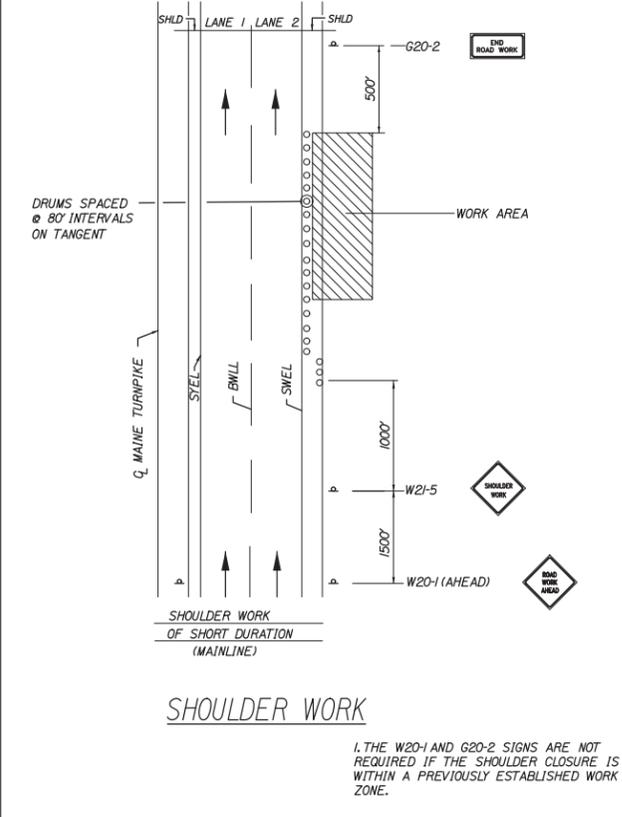


**SINGLE LANE CLOSURE
SIGNS ON EASELS**



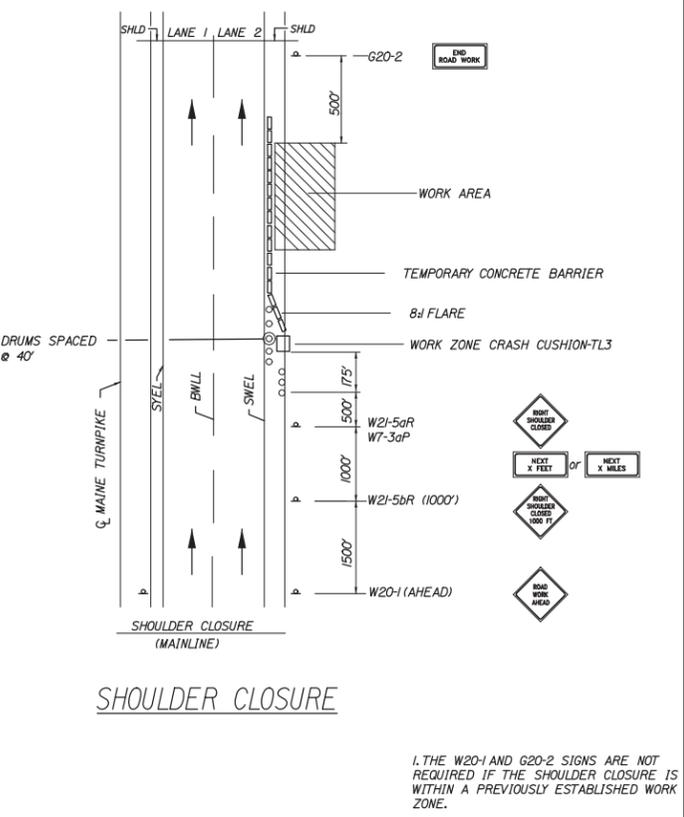
DOUBLE LANE CLOSURE

1. SEE SINGLE LANE CLOSURE NOTES FOR REDUCED SPEED SIGNS, TRAFFIC STOPPAGE SIGNS, SIGN SPACING AND OTHER PERTINENT INFORMATION.



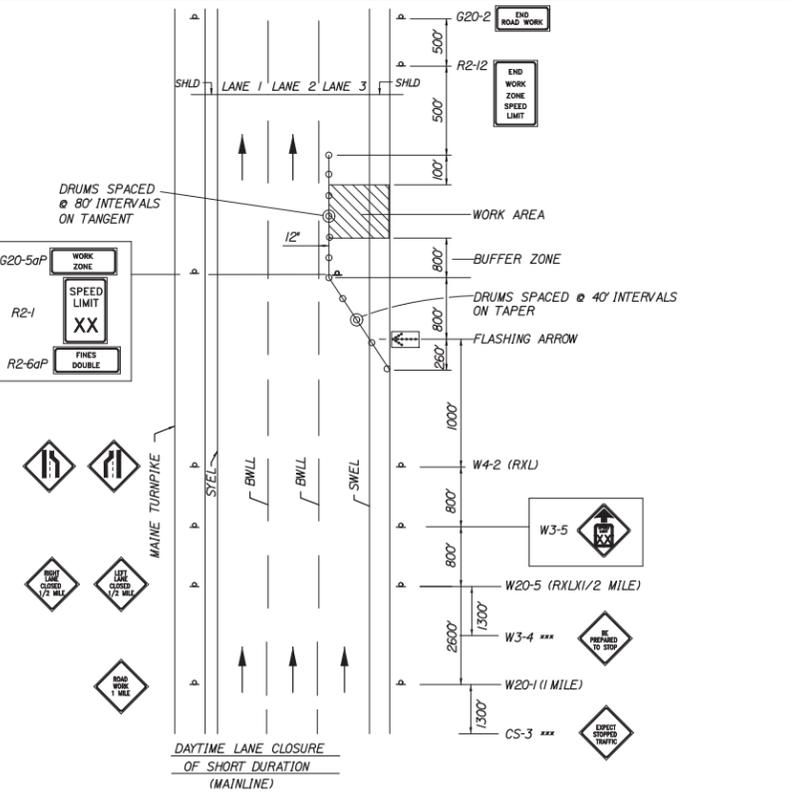
SHOULDER WORK

1. THE W20-1 AND G20-2 SIGNS ARE NOT REQUIRED IF THE SHOULDER CLOSURE IS WITHIN A PREVIOUSLY ESTABLISHED WORK ZONE.

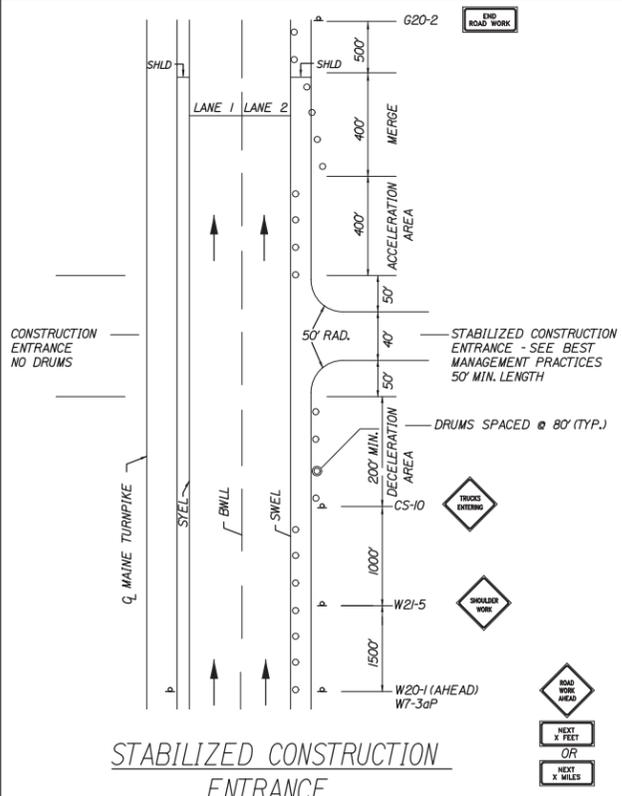


SHOULDER CLOSURE

1. THE W20-1 AND G20-2 SIGNS ARE NOT REQUIRED IF THE SHOULDER CLOSURE IS WITHIN A PREVIOUSLY ESTABLISHED WORK ZONE.



SINGLE LANE CLOSURE - POST MOUNTED SIGN SETUP



**STABILIZED CONSTRUCTION
ENTRANCE**

1. SIGN G20-2 IS NOT REQUIRED IF ENTRANCE IS WITHIN THE WORK ZONE.

- GENERAL MAINTENANCE OF TRAFFIC NOTES:**
1. ALL PAVEMENT STRIPING & SIGNING SHALL BE IN ACCORDANCE WITH THE "MANUAL ON UNIFORM TRAFFIC CONTROL DEVICES", U.S.D.O.T., F.H.W.A., LATEST EDITION.
 2. THESE PLANS SHOW THE GENERAL CONDITION FOR TURNPIKE MAINLINE TRAFFIC CONTROL DURING CONSTRUCTION, SLIGHT MODIFICATIONS IN CONSTRUCTION PROCEDURE MAY OCCUR AND MAY REQUIRE SOME MINOR ADJUSTMENTS TO BE MADE IN THE FIELD, ALL PROCEDURES MUST BE APPROVED BY THE RESIDENT.
 3. THE CONTRACTOR SHALL REMOVE ALL PAVEMENT MARKINGS THAT CONFLICT WITH PROPOSED PAVEMENT MARKINGS IN ACCORDANCE WITH THE SPECIFICATIONS AND MUTCD. PAYMENT SHALL BE MADE UNDER ITEM 627.77 - REMOVING PAVEMENT MARKINGS.
 4. EXPOSED BARRIER ENDS SHALL BE PROTECTED BY A WORK ZONE CRASH CUSHION. PAYMENT WILL BE UNDER ITEM 527.341 - WORK ZONE CRASH CUSHION - TL-3.
 5. GEOMETRIC INFORMATION FOR TRAFFIC PHASES SHOWN ON THE PLANS WILL BE SUPPLIED TO THE CONTRACTOR AFTER AWARD.

ABBREVIATIONS FOR ALL M.O.T. PLANS

- BWLL = BROKEN WHITE LANE LINE
- SWEL = SOLID WHITE EDGE LINE
- SYEL = SOLID YELLOW EDGE LINE
- TBWLL = TEMPORARY BROKEN WHITE LANE LINE
- TSWEL = TEMPORARY SOLID WHITE EDGE LINE
- TSYEL = TEMPORARY SOLID YELLOW EDGE LINE

Scale:			
No.	Revision	By	Date

Designed by:					
HNTB					
CONSULTANT PROJECT MANAGER: Tim Cote, P.E.					
Designed	By	Date	Checked	By	Date
	CAH	01/14		TRC	01/14
Drawn	By	Date	In Charge of	By	Date
	MPC	01/14		RAL	01/14

HNTB CORPORATION
340 County Road, Suite 6-C
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**THE GOLD STAR
MEMORIAL HIGHWAY**

MTA PROJECT MANAGER: Kristi Van Ooyen, P.E.

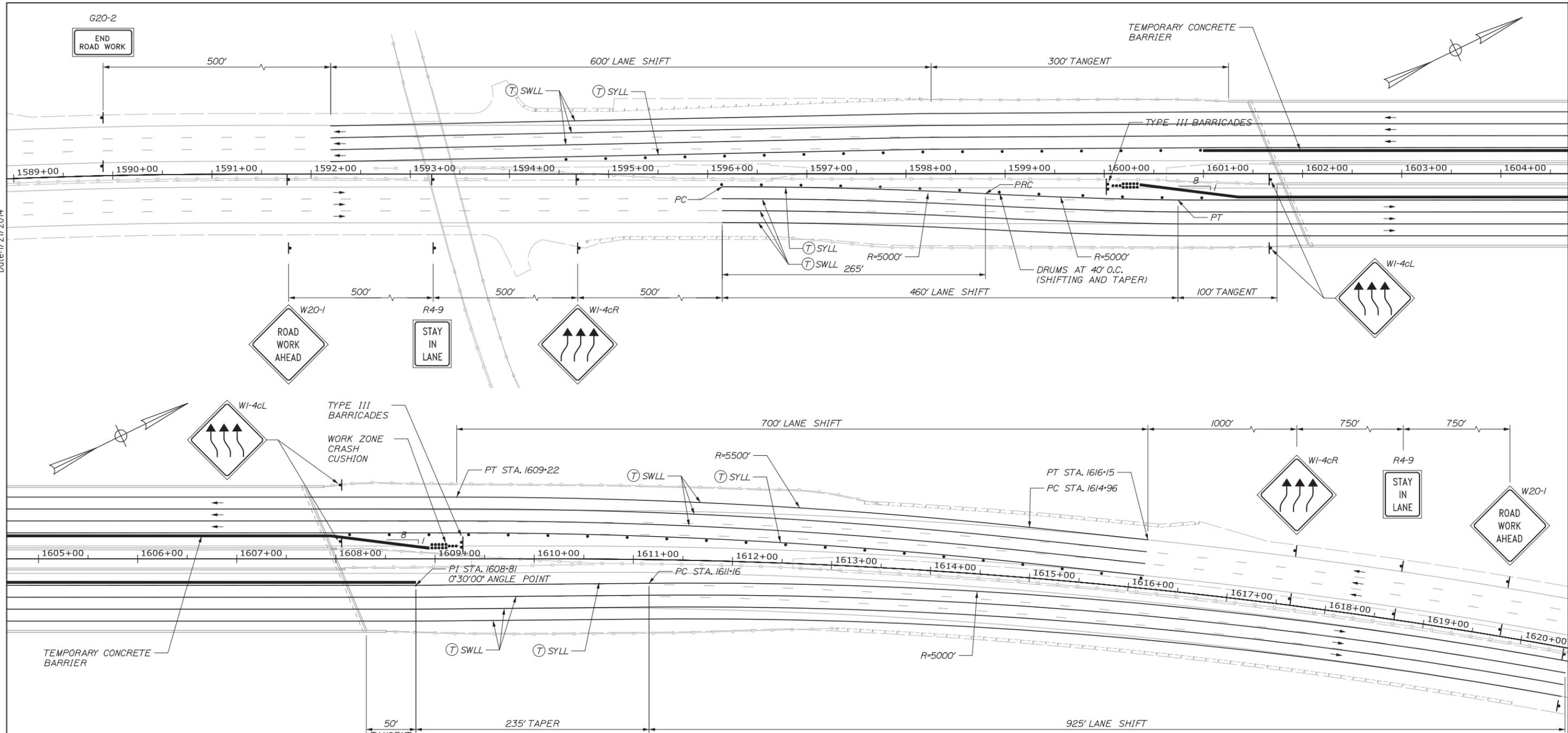
SACO RIVER BRIDGE PAINTING

MAINTENANCE OF TRAFFIC
STANDARD DETAILS

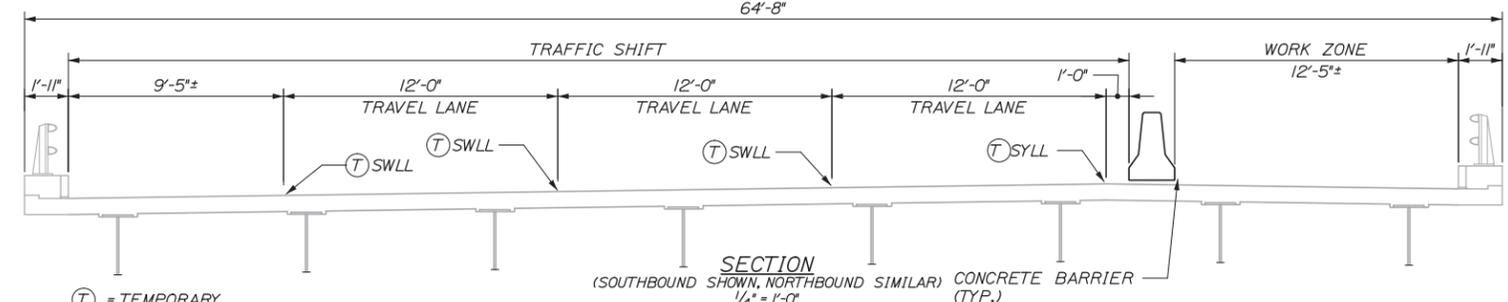
SHEET NUMBER: MT-01
CONTRACT: 2014.04
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Filename: 003_TCPDetails.dgn

Date: 1/21/2014



- NOTES:**
- ONE DOUBLE LANE CLOSURE PACKAGE, ONE SINGLE LANE CLOSURE PACKAGE AND TWO SHOULDER CLOSURE PACKAGES ARE INCLUDED IN THIS CONTRACT. THESE PACKAGES SHALL BE RELOCATED AS REQUIRED TO COMPLETE THE WORK.
 - TEMPORARY 6 INCH PAVEMENT MARKING TAPE SHALL BE PLACED ON TOP OF EXISTING SKIP LINES AND SOLID WHITE LINE ON THE BRIDGE DECK. EXACT LANE DIMENSIONS MAY VARY.
 - TEMPORARY PAVEMENT MARKINGS SHALL BE 6 INCH TAPE.
 - ALL CONFLICTING EXISTING PAVEMENT MARKINGS SHALL BE COVERED WITH TEMPORARY 6 INCH BLACK PAVEMENT MARKING TAPE.
 - REMOVE RUMBLE STRIPS STA. 1595+50 NORTHBOUND RIGHT TO STA. 1621+00 NORTHBOUND RIGHT.



Designed by:

HNTB

CONSULTANT PROJECT MANAGER: Tim Cote, P.E.

No.	Revision	By	Date

	By	Date		By	Date
Designed	CAH	01/14	Checked	TRC	01/14
Drawn	MPC	01/14	In Charge of	RAL	01/14

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MAINE TURNPIKE

THE GOLD STAR MEMORIAL HIGHWAY

MTA PROJECT MANAGER: Kristi Van Ooyen, P.E.

SACO RIVER BRIDGE PAINTING

MAINTENANCE OF TRAFFIC LANE SHIFT DETAILS

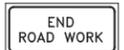
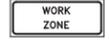
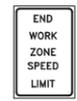
SHEET NUMBER: MT-02

CONTRACT: 2014.04

4 OF 13

Filename: 004_PhasingPlan.dgn

Date: 1/21/2014

IDENTIFICATION NUMBER	SIZE OF SIGN		TEXT	TEXT DIMENSIONS (INCHES)			NUMBER OF SIGNS REQUIRED	COLOR		BORDER RADIUS	AREA IN SQUARE FEET	NOTES
	WIDTH	HEIGHT		LETTER HEIGHT	VERTICAL SPACING	ARROW RTE. MKR.		BACK-GROUND	LEGEND BORDER			
CS-3	48"	48"		6" 6" 6"	4" 4"		4	ORANGE	BLACK		16.00 (64)	
G20-2	48"	24"		TEXT DIMENSIONS SHALL CONFORM TO "STANDARD HIGHWAY SIGNS" - 2000			4	ORANGE	BLACK		8.00 (32)	
G20-5aP	48"	24"					4	ORANGE	BLACK		8.00 (32)	
R2-1 (50)	48"	60"					4	WHITE	BLACK		20.00 (80)	
R2-6aP	48"	24"					4	WHITE	BLACK		8.00 (32)	
R2-12	36"	54"					4	WHITE	BLACK		13.50 (54)	
R4-9	36"	48"					4	WHITE	BLACK		12.00 (48)	
W1-4cR	48"	48"					4	ORANGE	BLACK		16.00 (64)	
W1-4cL	48"	48"					4	ORANGE	BLACK		16.00 (64)	
W1-4bR	48"	48"					4	ORANGE	BLACK		16.00 (64)	
W1-4bL	48"	48"					4	ORANGE	BLACK		16.00 (64)	

IDENTIFICATION NUMBER	SIZE OF SIGN		TEXT	TEXT DIMENSIONS (INCHES)			NUMBER OF SIGNS REQUIRED	COLOR		BORDER RADIUS	AREA IN SQUARE FEET	NOTES
	WIDTH	HEIGHT		LETTER HEIGHT	VERTICAL SPACING	ARROW RTE. MKR.		BACK-GROUND	LEGEND BORDER			
W3-4	48"	48"		TEXT DIMENSIONS SHALL CONFORM TO "STANDARD HIGHWAY SIGNS" - 2000			4	ORANGE	BLACK		16.00 (64)	
W3-5 (50)	48"	48"					4	ORANGE	BLACK		16.00 (64)	
W4-2L	48"	48"					6	ORANGE	BLACK		16.00 (96)	
W4-2R	48"	48"					6	ORANGE	BLACK		16.00 (96)	
W7-3aP (2000)	36"	30"					2	ORANGE	BLACK		7.50 (15)	
W20-1 (1 MILE) (AHEAD)	48"	48"					4 5	ORANGE ORANGE	BLACK BLACK		16.00 (64) 16.00 (80)	
W20-5L (1/2 MILE)	48"	48"					2	ORANGE	BLACK		16.00 (32)	

Filename: 005_SignSumm1.dgn

Scale:			
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CONSULTANT PROJECT MANAGER: Tim Cote, P.E.					
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	CAH	01/14	Checked	TRC	01/14
	Drawn	MPC	01/14	In Charge of	RAL

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**THE GOLD STAR
MEMORIAL HIGHWAY**

MTA PROJECT MANAGER: Kristi Van Ooyen, P.E.

SACO RIVER BRIDGE PAINTING

MAINTENANCE OF TRAFFIC
SIGN SUMMARY 1

SHEET NUMBER: MT-03
CONTRACT: 2014.04

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Date: 1/21/2014

IDENTIFICATION NUMBER	SIZE OF SIGN		TEXT	TEXT DIMENSIONS (INCHES)			NUMBER OF SIGNS REQUIRED	COLOR		BORDER RADIUS	AREA IN SQUARE FEET	NOTES
	WIDTH	HEIGHT		LETTER HEIGHT	VERTICAL SPACING	ARROW RTE. MKR.		BACK-GROUND	LEGEND BORDER			
W20-5R (1/2 MILE)	48"	48"		TEXT DIMENSIONS SHALL CONFORM TO "STANDARD HIGHWAY SIGNS" - 2000			2	ORANGE	BLACK		16.00 (32)	
W20-5aL (1/2 MILE)	48"	48"					2	ORANGE	BLACK		16.00 (32)	
W20-5aR (1/2 MILE)	48"	48"					2	ORANGE	BLACK		16.00 (32)	
W21-5aR	48"	48"					2	ORANGE	BLACK		16.00 (32)	
W21-5bR (1000)	48"	48"					2	ORANGE	BLACK		16.00 (32)	

Filename: 006_SignSumm2.dgn

Scale:			
No.	Revision	By	Date

Designed by:			
HNTB			
CONSULTANT PROJECT MANAGER: Tim Cote, P.E.			
By	Date	By	Date
Designed	CAH 01/14	Checked	TRC 01/14
Drawn	MPC 01/14	In Charge of	RAL 01/14

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**THE GOLD STAR
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SACO RIVER BRIDGE PAINTING

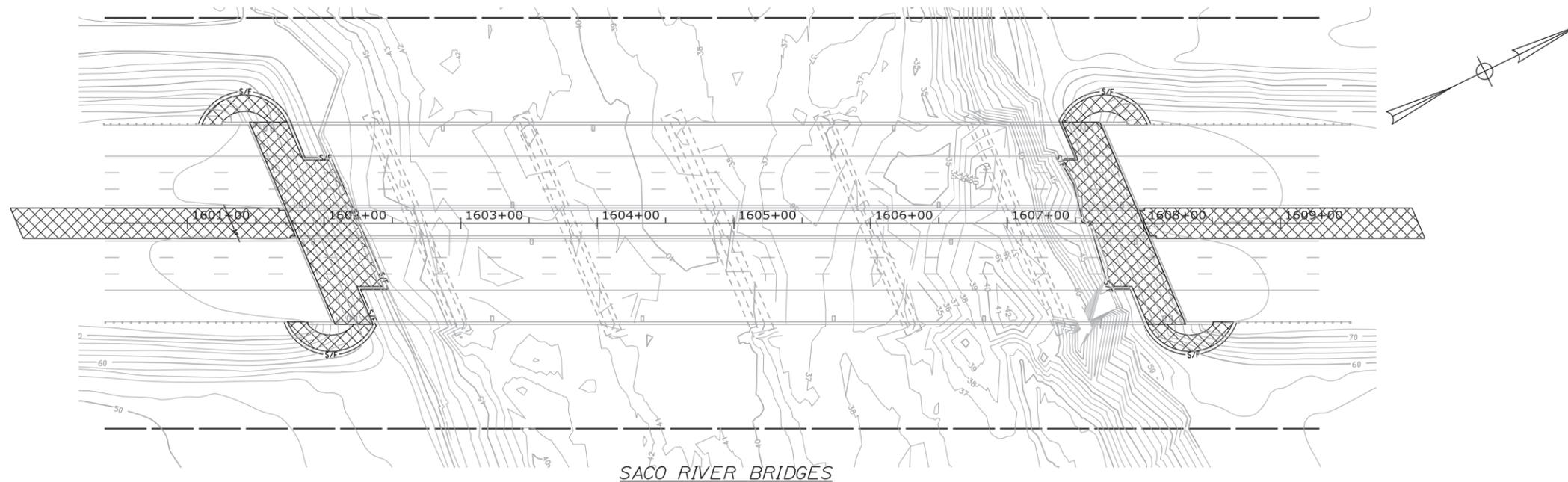
MAINTENANCE OF TRAFFIC
SIGN SUMMARY 2

SHEET NUMBER: MT-04

CONTRACT: 2014.04

6 OF 13

Date: 1/21/2014



SACO RIVER BRIDGES

NOTES:

1. EROSION AND SEDIMENTATION CONTROL DEVICES REQUIRED FOR THE CONTRACTOR'S ACCESS TO LOCATIONS AND STORAGE AREAS WILL NOT BE MEASURED FOR PAYMENT.
2. SEE SPECIFICATIONS FOR CONTRACTOR'S SUBMITTAL REQUIREMENTS IF ADDING ADDITIONAL LIMITS OF DISTURBANCE TO THE PROJECT ESTIMATED QUANTITIES.

LEGEND

 CONTRACT WORK LIMIT OF DISTURBANCE - 0 ACRES

 CONTRACTOR'S LIMIT OF DISTURBANCE AREA FOR ACCESS AND STORAGE - 0.52 ACRES

Scale: 50 0 50 100



Designed by:



HNTB CORPORATION
340 County Road, Suite 6-C
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**THE GOLD STAR
MEMORIAL HIGHWAY**

SACO RIVER BRIDGE PAINTING

LIMIT OF DISTURBANCE PLAN

No.	Revision	By	Date

CONSULTANT PROJECT MANAGER: Tim Cote, P.E.

	By	Date	Checked	By	Date
Designed	CAH	01/14	Checked	TRC	01/14
Drawn	MPC	01/14	In Charge of	RAL	01/14

MTA PROJECT MANAGER: Kristi Van Ooyen, P.E.

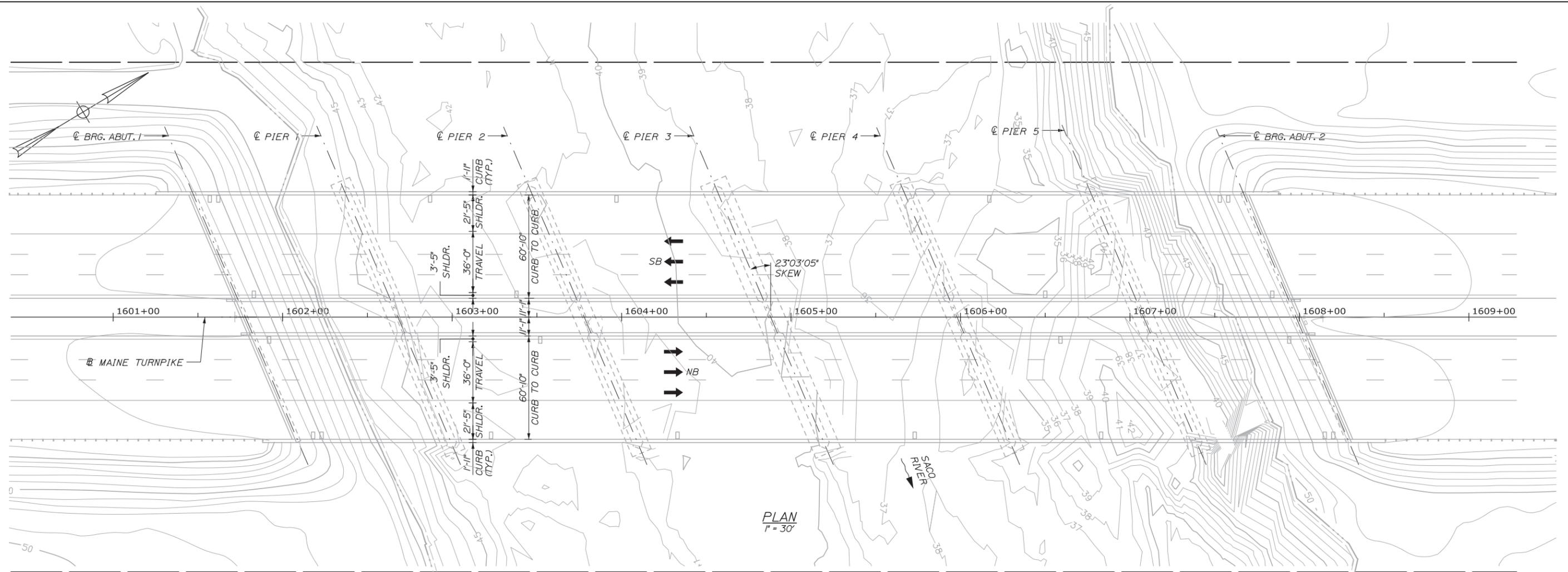
CONTRACT: 2014.04

SHEET NUMBER: LD-01

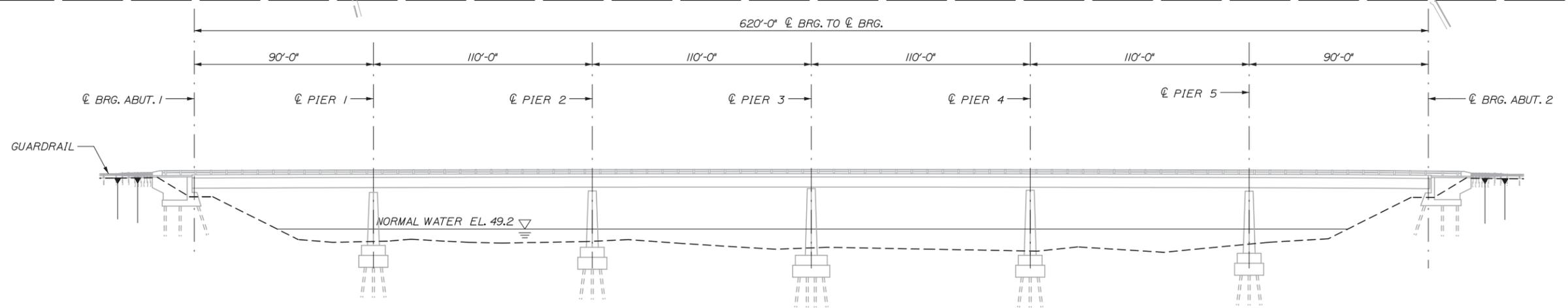
7 OF 13

Filename: 007_LOD.dgn

Date: 1/21/2014



PLAN
P = 30'



ELEVATION
N.T.S.

NOTES:

1. EXISTING TOPOGRAPHY AND CONTOURS ARE APPROXIMATE AND HAVE BEEN DEVELOPED USING RIVER CHANNEL SOUNDINGS FROM THE 2011 UNDERWATER INSPECTION AND AERIAL SURVEY COMPLETED IN 1998. ACTUAL SITE CONDITIONS MAY VARY.

2. WATER LINE ELEVATION SHOWN IS THE ANTICIPATED WATER ELEVATION. THIS ELEVATION WILL VARY DURING CONSTRUCTION.

3. A MINIMUM VERTICAL CLEARANCE OF 12'-0" SHALL BE MAINTAINED BETWEEN THE BOTTOM OF SCAFFOLDING AND THE NORMAL WATER ELEVATION AT ALL TIMES DURING CONSTRUCTION.



Designed by:



HNTB CORPORATION
340 County Road, Suite 6-C
Westbrook, ME 04092
TEL (207) 774-5155
FAX (207) 228-0909



**THE GOLD STAR
MEMORIAL HIGHWAY**

SACO RIVER BRIDGE PAINTING
SACO RIVER BRIDGE
GENERAL PLAN AND ELEVATION

No.	Revision	By	Date

CONSULTANT PROJECT MANAGER: Tim Cote, P.E.

	By	Date		By	Date
Designed	CAH	01/14	Checked	TRC	01/14
Drawn	MPC	01/14	In Charge of	RAL	01/14

MTA PROJECT MANAGER: Kristi Van Ooyen, P.E.

CONTRACT: 2014.04

SHEET NUMBER: S-01

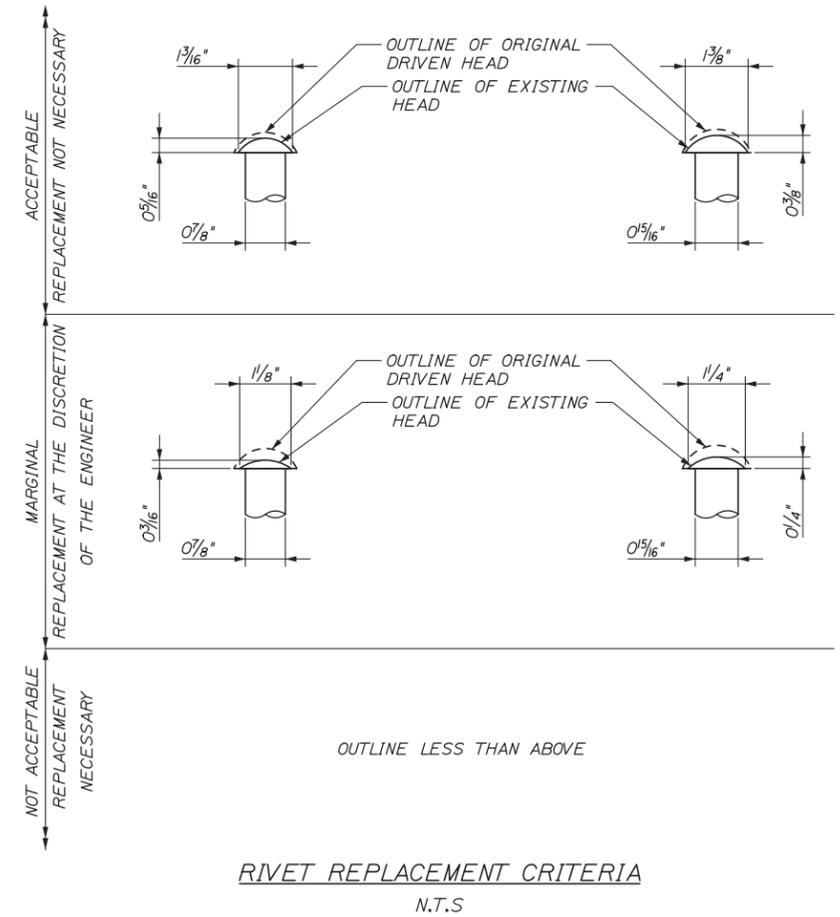
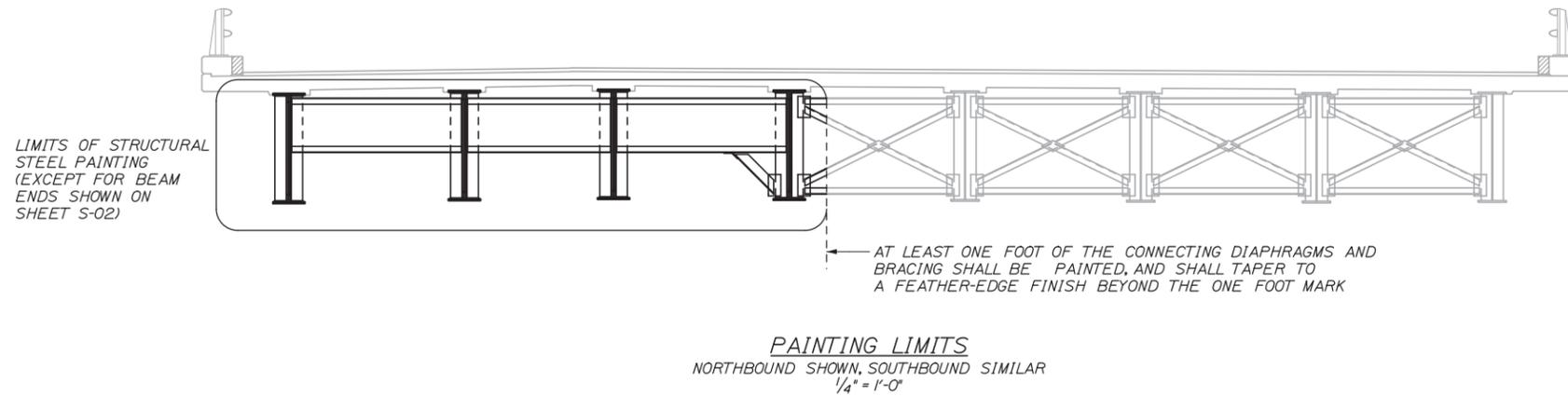
8 OF 13

Filename: 008_GPlan.dgn

NOTES:

1. THE CONTRACTOR SHALL FIELD VERIFY DIMENSIONS AND DETAILS OF THE EXISTING GIRDERS SHOWN.
2. THE CONTRACTOR SHALL PERFORM SURFACE PREPARATION, CONTAINMENT, DISPOSAL AND PAINTING WORK IN CONFORMANCE WITH THE APPLICABLE SECTIONS OF SPECIAL PROVISION 506, "PAINTING OF STRUCTURAL STEEL" AND SPECIAL PROVISION 105, "LEAD PAINT". ALL COSTS SHALL BE INCLUDED UNDER THE APPLICABLE PAY ITEMS IN SPECIAL PROVISION 506.
3. ALL STRUCTURAL STEEL LOCATED IN THE PAINTING LIMITS ENVELOPE SHALL BE PAINTED. THIS SHALL INCLUDE ALL DIAPHRAGMS, CROSS FRAMES, STRUTS AND LATERAL BRACING.
4. THE CONTRACTOR SHALL PROVIDE THE RESIDENT WITH AN ACCEPTABLE MEANS OF ACCESS TO ALL PORTIONS OF THE WORK TO ALLOW THE RESIDENT TO SAFELY INSPECT THE WORK. THIS WORK SHALL BE CONSIDERED INCIDENTAL TO PAY ITEM 506.9108 "CONTAINMENT SYSTEM AND POLLUTION CONTROL".
5. AFTER GIRDERS ARE PREPARED FOR PAINT, THE RESIDENT SHALL INSPECT RIVETS WITHIN THE PAINTING LIMITS FOR UNACCEPTABLE SECTION LOSS. PRIOR TO TOP COATING THE GIRDERS THE CONTRACTOR SHALL REPLACE UNACCEPTABLE RIVETS WITH HOT DIP GALVANIZED HIGH STRENGTH BOLTS AND PREP THE INSTALLED BOLTS FOR PAINTING. RIVET REMOVAL AND REPLACEMENT SHALL BE IN ACCORDANCE WITH THE "RIVET REPLACEMENT CRITERIA" DETAIL. RIVET REMOVAL AND REPLACEMENT SHALL BE MEASURED OF PAYMENT UNDER PAY ITEM 504.81.
6. RIVETS WITH UNACCEPTABLE SECTION LOSS ON GIRDERS G-8 AND G-9 WERE REPLACED IN 2013. RIVET INSPECTION AND REPLACEMENT ON THESE GIRDERS WILL NOT BE REQUIRED.
7. RIVET REMOVAL SHALL BE COMPLETED IN STRICT ACCORDANCE WITH SPECIAL PROVISION 504.
8. A REPAIR PROCEDURE SHALL BE SUBMITTED BY THE CONTRACTOR IN ACCORDANCE WITH SPECIAL PROVISION 504 TO CORRECT ANY DAMAGE TO GIRDER COMPONENTS CAUSED BY THE CONTRACTORS OPERATIONS.

Date: 1/21/2014



Filename: 010_SteelRepDets.dgn

Scale:				Designed by:															
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CONSULTANT PROJECT MANAGER: Tim Cote, P.E.				<table border="1"> <thead> <tr> <th>By</th> <th>Date</th> <th>By</th> <th>Date</th> </tr> </thead> <tbody> <tr> <td>Designed</td> <td>CAH 01/14</td> <td>Checked</td> <td>TRC 01/14</td> </tr> <tr> <td>Drawn</td> <td>MPC 01/14</td> <td>In Charge of</td> <td>RAL 01/14</td> </tr> </tbody> </table>				By	Date	By	Date	Designed	CAH 01/14	Checked	TRC 01/14	Drawn	MPC 01/14	In Charge of	RAL 01/14
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THE GOLD STAR
MEMORIAL HIGHWAY

MTA PROJECT MANAGER: Kristi Van Ooyen, P.E.

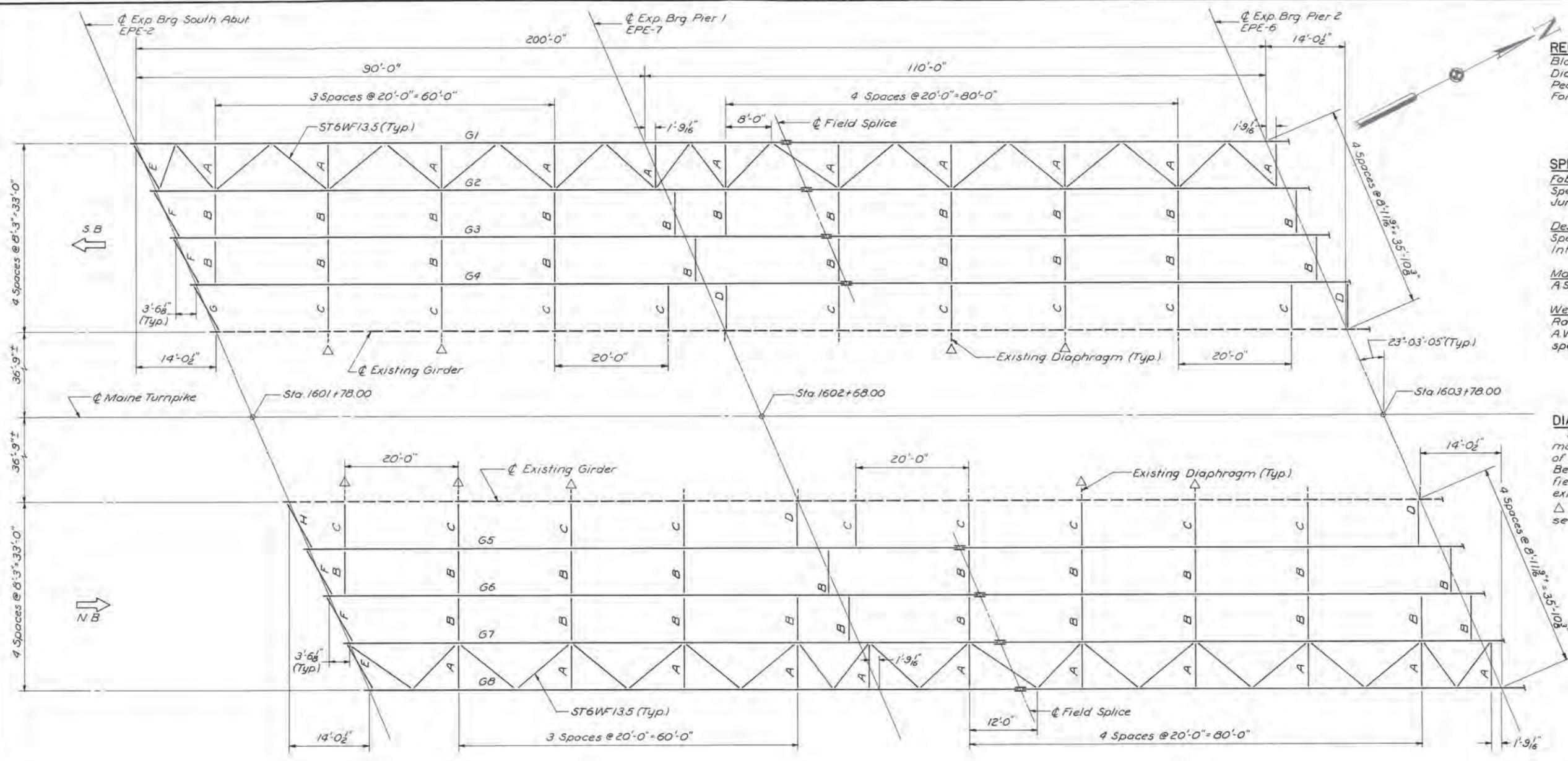
SACO RIVER BRIDGE PAINTING

SACO RIVER BRIDGE
STEEL REPAIR AND PAINTING DETAILS

SHEET NUMBER: S-03

CONTRACT: 2014.04

10 OF 13



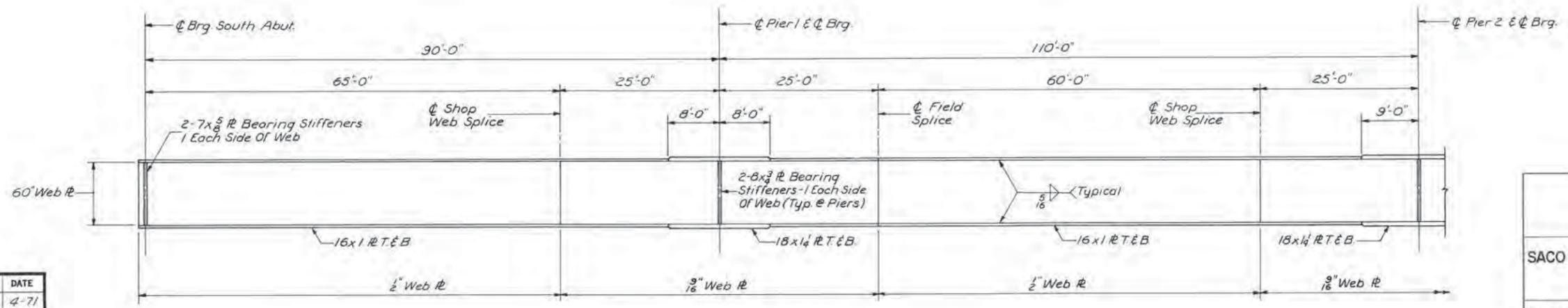
REFERENCE
 Blocking Detail - see Sheet 24.
 Diaphragms - see Sheet 24.
 Pedestals - see Sheet 8.
 For additional steel details, see Sheets 24 & 25.

SPECIFICATIONS
Fabrication and Erection: State of Maine Standards Specifications, Highways and Bridges Revision of June 1968.
Design and Details: A.A.S.H.O Standard Specifications for Highway Bridges 1969 with Interim Specifications 1970.
Materials: All structural steel shall conform to A.S.T.M. Designation A36.
Welding: Specifications for Welded Highway and Railway Bridges, American Welding Society A.W.S. - D2.0-69 as modified by the appropriate special provisions.

DIAPHRAGM NOTE
 The intent of the diaphragm spacing shown is to match that in the existing bridge so as to make use of the connection angles on the existing girder. Before fabrication the Contractor shall verify, by field measurement, the actual location of the existing connection angles.
 △ Knee brace required on existing diaphragm - see Sheet 24 for detail.

PEDESTALS
 EPE2 - 16 required
 EPE7 - 16 required
 EPE6 - 16 required
 FPD3 - 8 required

FRAMING PLAN
 1"=10'



TYPICAL GIRDER ELEVATION
 1"=10'

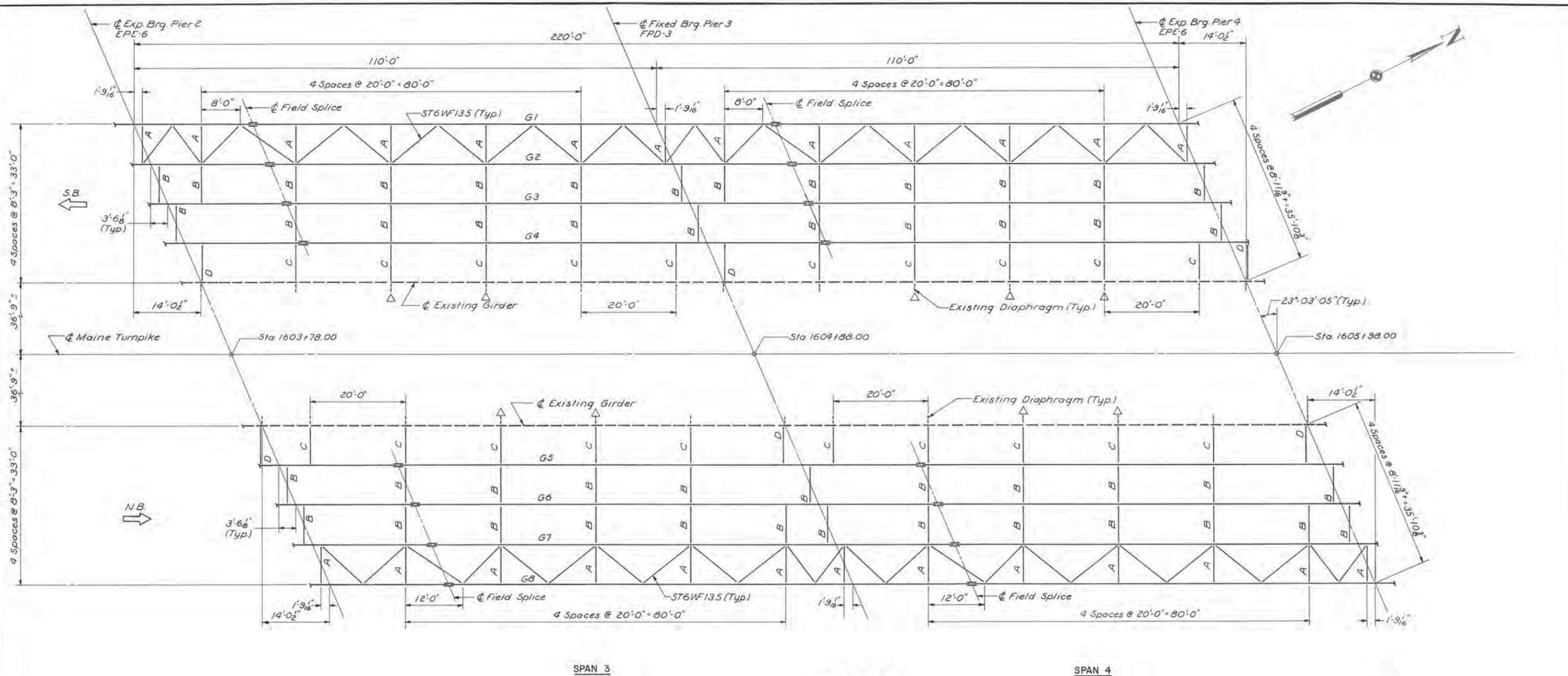
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		TRACED		
		CHECKED	R.E.F. 5-71	
		BY	DATE	
		IN CHARGE OF	C.U.M.	

MAINE TURNPIKE AUTHORITY
MAINE TURNPIKE
 SECTION 1-YORK TO PORTLAND

SACO RIVER BRIDGE RECONSTRUCTION
FRAMING PLAN I

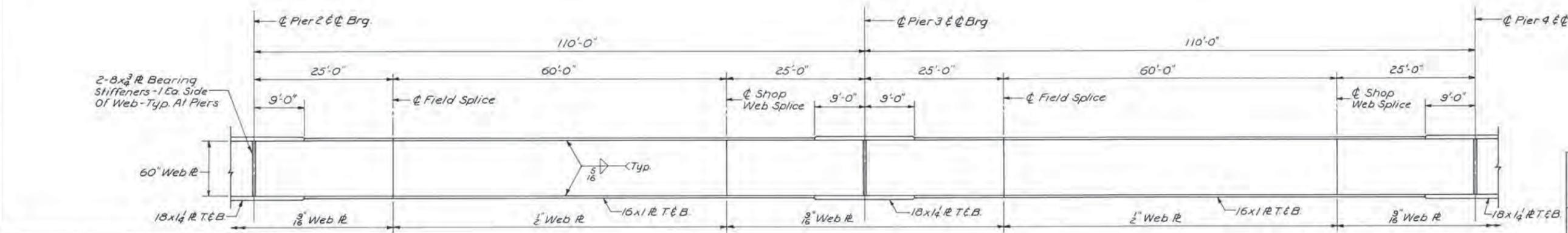
HOWARD, NEEDLES, TAMMEN & BERGENDOFF
 CONSULTING ENGINEERS
 BOSTON

SCALE: AS NOTED
As Built
 SHEET NO. 20 OF 40



FRAMING PLAN
1"=10'

NOTE
For notes see Sheet 20.



TYPICAL GIRDER ELEVATION
1"=10'

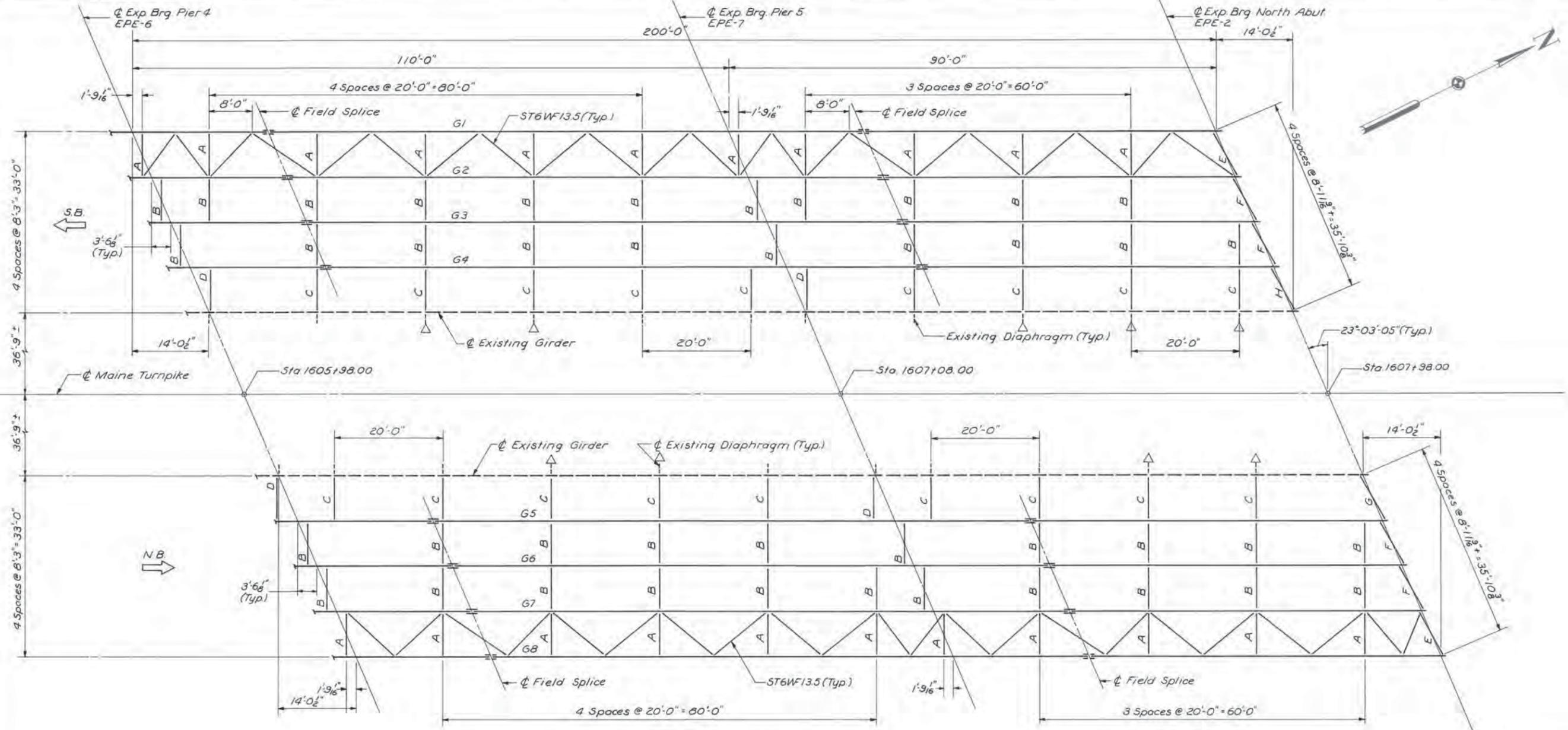
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		CHECKED	R.E.F. 5-71	
		IN CHARGE OF	C.J.M.	

MAINE TURNPIKE AUTHORITY
MAINE TURNPIKE
SECTION 1-YORK TO PORTLAND

SACO RIVER BRIDGE RECONSTRUCTION
FRAMING PLAN II

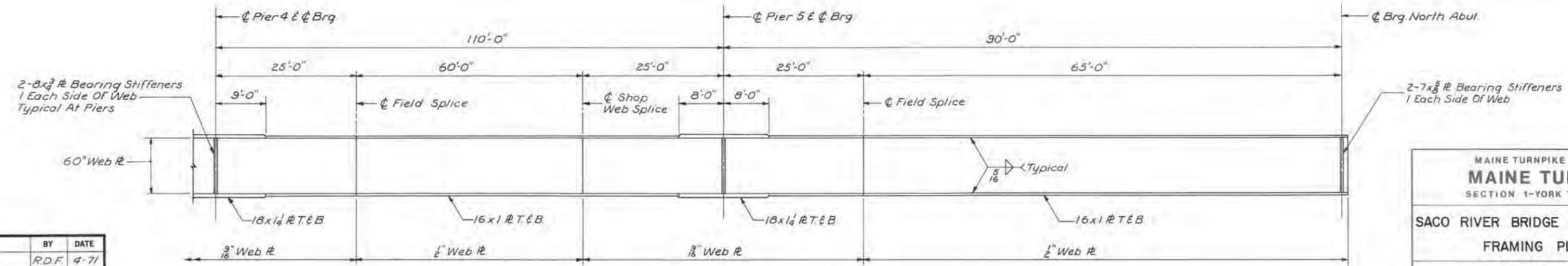
HOWARD, NEEDLES, TAMMEN & BERGENDOFF
CONSULTING ENGINEERS
BOSTON

SCALE: AS NOTED
As Built
SHEET NO. 21 of 40



FRAMING PLAN
1"=10'

NOTE
For notes see Sheet 20.



TYPICAL GIRDER ELEVATION
1"=10'

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		CHECKED	R.E.F. 5-71	
				C.U.M.

MAINE TURNPIKE AUTHORITY MAINE TURNPIKE SECTION 1-YORK TO PORTLAND	
SACO RIVER BRIDGE RECONSTRUCTION FRAMING PLAN III	
HOWARD, NEEDLES, TAMMEN & BERGENDOFF CONSULTING ENGINEERS BOSTON	SCALE: AS NOTED As Built SHEET NO. 22 OF 40