STATE OF MAINE
DEPARTMENT OF TRANSPORTATION
16 STATE HOUSE STATION
AUGUSTA, MAINE 04333-0016

Paul R. LePage
GOVERNOR

David Bernhardt
COMMISSIONER

February 1, 2016
Subject: Bridge Replacement
State WIN: 020480.00
Location: **Clinton**
Amendment No. 1

Dear Sir/Ms:

Make the following change to the Bid Documents:

REMOVE pages 16 thru 22 "Proposal Schedule of Items" dated 01/07/2016 and **REPLACE** with the attached revised "Proposal Schedule of Items", 7 pages, dated 01/29/2016.

INSERT the attached new" SPECIAL PROVISION, SECTION 627, REMOVABLE PAVEMENT MARKING TAPE", 2 pages, dated February 1, 2016 after page 66.

REMOVE sheets 2, 15, and 24 from the plan set and **REPLACE** with the attached revised sheets numbered 2, 15, and 24, dated January 2016.

The following questions have been received:

Question: Seems that Bar Marks A700, B802, & B803 are missing from the bar schedule 2. BI# 503.171 can mechanical couplers with lap lengths be provided?

Response: Please see the updated plan sheets.

Question: BI# 503.171 can mechanical couplers with lap lengths be provided?

Response: Mechanical couplers with lap splices shall meet the requirements of Standard Specifications Subsection 503.07 Reinforcing Steel - Splicing.

Question: On Sheet 9 of 27, the Plain Riprap thickness appears to be 3'6" (42 inches). On Sheet 16 of 27 the Plain Riprap appears to be 2'6" (30 inches). What is the thickness of the Plain Riprap?

Response: Plain Riprap shall meet the requirements of Standard Detail 610(02) Stone Scour Protection.

Question: Granular Borrow is shown on Sheets 4 of 27 and 16 of 27 as being utilized for backfill of the new abutments. It is also shown as backfill around the new drainage on Sheet 7 of 27. Finally, it is being shown under the Plain Riprap on Sheet 16 of 27. I believe that one or more of the above uses is incidental to another Bid Item otherwise the estimated quantity for

Granular Borrow is low. Please confirm what the Granular Borrow item is in regards to determining the estimated quantity?

Response: Granular borrow backfill for structures and under riprap is paid for separately. The granular borrow backfill for Underdrain Type C is considered incidental as specified in Standard Specifications Subsection 605.07 Basis of Payment.

Consider this change and information prior to submitting your bid on **February 3, 2016**.

Sincerely,

George M. A. Macdougall P.E.
Contracts & Specifications Engineer

Maine Department of Transportation

Proposal Schedule of Items

Proposal ID: 020480.00 **Project(s):** 020480.00

SECTION: 1 INITIAL GROUP

Alt Set ID: **Alt Mbr ID:**

Contractor: _____

Proposal Line Number	Item ID Description	Approximate Quantity and Units	Unit Price Dollars	Unit Price Cents	Bid Amount Dollars	Bid Amount Cents
0010	201.23 REMOVING SINGLE TREE TOP ONLY	1.000 EA				
0020	201.24 REMOVING STUMP	1.000 EA				
0030	202.19 REMOVING EXISTING BRIDGE	LUMP SUM	LUMP SUM			
0040	202.202 REMOVING PAVEMENT SURFACE	310.000 SY				
0050	203.20 COMMON EXCAVATION	400.000 CY				
0060	203.24 COMMON BORROW	10.000 CY				
0070	203.25 GRANULAR BORROW	270.000 CY				
0080	206.082 STRUCTURAL EARTH EXCAVATION - MAJOR STRUCTURES	310.000 CY				
0090	304.10 AGGREGATE SUBBASE COURSE - GRAVEL	300.000 CY				
0100	403.208 HOT MIX ASPHALT 12.5 MM HMA SURFACE	100.000 T				
0110	403.209 HOT MIX ASPHALT 9.5 MM (SIDEWALKS, DRIVES, INCIDENTALS)	40.000 T				
0120	403.211 HOT MIX ASPHALT (SHIMMING)	10.000 T				

Maine Department of Transportation

Proposal Schedule of Items

Proposal ID: 020480.00 **Project(s):** 020480.00

SECTION: 1 INITIAL GROUP

Alt Set ID: **Alt Mbr ID:**

Contractor: _____

Proposal Line Number	Item ID Description	Approximate Quantity and Units	Unit Price Dollars . Cents	Bid Amount Dollars . Cents
0130	403.213 HOT MIX ASPHALT 12.5 MM BASE	190.000 T	_____.____	_____.____
0140	409.15 BITUMINOUS TACK COAT - APPLIED	57.000 G	_____.____	_____.____
0150	501.231 DYNAMIC LOADING TEST	2.000 EA	_____.____	_____.____
0160	501.50 STEEL H-BEAM PILES 89 LBS/FT, DELIVERED	172.000 LF	_____.____	_____.____
0170	501.501 STEEL H-BEAM PILES 89 LBS/FT, IN PLACE	172.000 LF	_____.____	_____.____
0180	501.903 PILE TIPS - ROCK INJECTOR POINT	8.000 EA	_____.____	_____.____
0190	501.92 PILE DRIVING EQUIPMENT MOBILIZATION	LUMP SUM	LUMP SUM	_____.____
0200	502.219 STRUCTURAL CONCRETE, ABUTMENTS AND RETAINING WALLS	LUMP SUM	LUMP SUM	_____.____
0210	502.261 STRUCTURAL CONCRETE ROADWAY & SIDEWALK SLAB ON CONCRETE BRIDGE	LUMP SUM	LUMP SUM	_____.____
0220	502.31 STRUCTURAL CONCRETE APPROACH SLABS	LUMP SUM	LUMP SUM	_____.____
0230	502.49 STRUCTURAL CONCRETE CURBS AND SIDEWALKS	LUMP SUM	LUMP SUM	_____.____

Maine Department of Transportation

Proposal Schedule of Items

Proposal ID: 020480.00 **Project(s):** 020480.00

SECTION: 1 INITIAL GROUP

Alt Set ID: **Alt Mbr ID:**

Contractor: _____

Proposal Line Number	Item ID Description	Approximate Quantity and Units	Unit Price Dollars	Unit Price Cents	Bid Amount Dollars	Bid Amount Cents
0240	503.12 REINFORCING STEEL, FABRICATED AND DELIVERED	12,200.000 LB	_____	_____	_____	_____
0250	503.13 REINFORCING STEEL, PLACING	12,200.000 LB	_____	_____	_____	_____
0260	503.14 EPOXY-COATED REINFORCING STEEL, FABRICATED AND DELIVERED	4,616.000 LB	_____	_____	_____	_____
0270	503.15 EPOXY-COATED REINFORCING STEEL, PLACING	4,616.000 LB	_____	_____	_____	_____
0280	503.171 MECHANICAL / WELDED SPLICE	LUMP SUM	LUMP SUM		_____	_____
0290	507.0821 STEEL BRIDGE RAILING, 3 BAR	LUMP SUM	LUMP SUM		_____	_____
0300	507.0831 STEEL BRIDGE RAILING, 4 BAR	LUMP SUM	LUMP SUM		_____	_____
0310	508.14 HIGH PERFORMANCE WATERPROOFING MEMBRANE	LUMP SUM	LUMP SUM		_____	_____
0320	511.07 COFFERDAM: ABUTMENT NO. 2	LUMP SUM	LUMP SUM		_____	_____
0330	511.07 COFFERDAM: ABUTMENT NO. 1	LUMP SUM	LUMP SUM		_____	_____
0340	512.081 FRENCH DRAINS	LUMP SUM	LUMP SUM		_____	_____
0350	514.06 CURING BOX FOR CONCRETE CYLINDERS	1.000 EA	_____	_____	_____	_____

Maine Department of Transportation

Proposal Schedule of Items

Proposal ID: 020480.00 **Project(s):** 020480.00

SECTION: 1 INITIAL GROUP

Alt Set ID: **Alt Mbr ID:**

Contractor: _____

Proposal Line Number	Item ID Description	Approximate Quantity and Units	Unit Price Dollars Cents	Bid Amount Dollars Cents
0360	515.21 PROTECTIVE COATING FOR CONCRETE SURFACES	LUMP SUM	LUMP SUM	_____.____
0370	524.301 TEMPORARY STRUCTURAL SUPPORT	LUMP SUM	LUMP SUM	_____.____
0380	526.301 TEMPORARY CONCRETE BARRIER TYPE I	LUMP SUM	LUMP SUM	_____.____
0390	526.34 PERMANENT CONCRETE TRANSITION BARRIER	4.000 EA	_____.____	_____.____
0400	527.34 WORK ZONE CRASH CUSHIONS	4.000 UN	_____.____	_____.____
0410	535.60 PRESTRESSED STRUCTURAL CONCRETE SLAB	LUMP SUM	LUMP SUM	_____.____
0420	603.159 12 INCH CULVERT PIPE OPTION III	200.000 LF	_____.____	_____.____
0430	604.092 CATCH BASIN TYPE B1-C	3.000 EA	_____.____	_____.____
0440	604.18 ADJUSTING MANHOLE OR CATCH BASIN TO GRADE	1.000 EA	_____.____	_____.____
0450	604.244 CATCH BASIN TYPE F4	2.000 EA	_____.____	_____.____
0460	605.11 12 INCH UNDERDRAIN TYPE C	100.000 LF	_____.____	_____.____
0470	606.1721 BRIDGE TRANSITION - TYPE 1	3.000 EA	_____.____	_____.____

Maine Department of Transportation

Proposal Schedule of Items

Proposal ID: 020480.00 **Project(s):** 020480.00

SECTION: 1 INITIAL GROUP

Alt Set ID: **Alt Mbr ID:**

Contractor: _____

Proposal Line Number	Item ID Description	Approximate Quantity and Units	Unit Price Dollars	Unit Price Cents	Bid Amount Dollars	Bid Amount Cents
0480	606.231 GUARDRAIL TYPE 3C - 15 FOOT RADIUS AND LESS	50.000 LF	_____	_____	_____	_____
0490	606.265 TERMINAL END - SINGLE RAIL - GALVANIZED STEEL	3.000 EA	_____	_____	_____	_____
0500	606.353 REFLECTORIZED FLEXIBLE GUARDRAIL MARKER	8.000 EA	_____	_____	_____	_____
0510	606.79 GUARDRAIL 350 FLARED TERMINAL	1.000 EA	_____	_____	_____	_____
0520	608.45 CONSTRUCTION SIDEWALK	80.000 SY	_____	_____	_____	_____
0530	609.31 CURB TYPE 3	312.000 LF	_____	_____	_____	_____
0540	609.38 RESET CURB TYPE 1	20.000 LF	_____	_____	_____	_____
0550	610.08 PLAIN RIPRAP	330.000 CY	_____	_____	_____	_____
0560	610.18 STONE DITCH PROTECTION	11.000 CY	_____	_____	_____	_____
0570	613.319 EROSION CONTROL BLANKET	30.000 SY	_____	_____	_____	_____
0580	615.07 LOAM	10.000 CY	_____	_____	_____	_____
0590	618.14 SEEDING METHOD NUMBER 2	2.000 UN	_____	_____	_____	_____

Maine Department of Transportation

Proposal Schedule of Items

Proposal ID: 020480.00 **Project(s):** 020480.00

SECTION: 1 INITIAL GROUP

Alt Set ID: **Alt Mbr ID:**

Contractor: _____

Proposal Line Number	Item ID Description	Approximate Quantity and Units	Unit Price Dollars	Unit Price Cents	Bid Amount Dollars	Bid Amount Cents
0600	619.1201 MULCH - PLAN QUANTITY	2.000 UN				
0610	619.1401 EROSION CONTROL MIX - PLAN QUANTITY	20.000 CY				
0620	620.58 EROSION CONTROL GEOTEXTILE	440.000 SY				
0625	627.55 12" TEMPORARY PAVEMENT TAPE, WHITE	48.000 LF				
0630	627.733 4" WHITE OR YELLOW PAINTED PAVEMENT MARKING LINE	1,240.000 LF				
0640	627.76 TEMPORARY PAVEMENT MARKING LINE, WHITE OR YELLOW	LUMP SUM	LUMP SUM			
0650	627.77 REMOVING PAVEMENT MARKINGS	415.000 SF				
0660	629.05 HAND LABOR, STRAIGHT TIME	40.000 HR				
0670	631.12 ALL PURPOSE EXCAVATOR (INCLUDING OPERATOR)	40.000 HR				
0680	631.15 ROLLER, EARTH AND BASE COURSE (INCLUDING OPERATOR)	20.000 HR				
0690	631.172 TRUCK - LARGE (INCLUDING OPERATOR)	20.000 HR				

Maine Department of Transportation

Proposal Schedule of Items

Proposal ID: 020480.00 **Project(s):** 020480.00

SECTION: 1 INITIAL GROUP

Alt Set ID: **Alt Mbr ID:**

Contractor: _____

Proposal Line Number	Item ID Description	Approximate Quantity and Units	Unit Price Dollars	Unit Price Cents	Bid Amount Dollars	Bid Amount Cents
0700	639.19 FIELD OFFICE TYPE B	1.000 EA				
0710	643.72 TEMPORARY TRAFFIC SIGNAL	LUMP SUM	LUMP SUM			
0720	652.312 TYPE III BARRICADE	4.000 EA				
0730	652.33 DRUM	40.000 EA				
0740	652.34 CONE	80.000 EA				
0750	652.35 CONSTRUCTION SIGNS	200.000 SF				
0760	652.361 MAINTENANCE OF TRAFFIC CONTROL DEVICES	LUMP SUM	LUMP SUM			
0770	652.38 FLAGGER	250.000 HR				
0780	652.41 PORTABLE CHANGEABLE MESSAGE SIGN	3.000 EA				
0790	656.75 TEMPORARY SOIL EROSION AND WATER POLLUTION CONTROL	LUMP SUM	LUMP SUM			
0800	659.10 MOBILIZATION	LUMP SUM	LUMP SUM			

Section: 1 **Total:**

Total Bid:

SPECIAL PROVISION
SECTION 627
REMOVABLE PAVEMENT MARKING TAPE

Description

This work shall consist of furnishing, installing, maintaining and removing removable pavement marking tape in accordance with these specifications, the plans or as directed by the Resident. The tape can be white, yellow or black in color.

Construction

Preformed removable pavement marking tape shall be applied at locations shown on the traffic control plans by mechanical or manual methods. Mechanical applications shall be suitable for all markings. Manual applications shall normally be used for transverse lines, symbols and legends. Follow manufacturer's recommendations for equipment operation and maintenance, and product applications.

Black line masking tape shall be wider than the colored line it is intended to mask.

Preformed pavement marking tape shall be stored and applied as directed by the manufacturer. The Contractor shall provide a copy of the manufacturer's storage and application recommendations and the manufacturer's certificate of compliance to the Resident upon delivery of the material to the project. The certificate shall include the process, batch, or lot number(s) and corresponding date(s) of manufacture.

Materials

Material shall be delivered to the project in original containers. Each container shall be clearly marked to indicate the color of the material, a specific description of the contents, and the process batch or lot numbers.

Material found to be discolored or damaged in any way or material manufactured more than one year prior to installation shall not be used.

A. Temporary Pavement Line Tape. The Contractor shall use a product from the Department's qualified products list. Use a primer only if recommended by the manufacturer.

B. Removable Black Line Masking Tape. The Contractor shall use a product from the Department's qualified products list.

Method of Measurement

Retroreflective temporary pavement marking lines will be measured by the linear foot.

Basis of Payment

The accepted quantities of temporary pavement tape will be paid for at the contract unit price per linear foot. Payment shall be full compensation for furnishing, installing, maintaining, removal and all incidentals necessary to complete the work.

Pay item		Pay Unit
627.51	6 Inch Temporary Pavement Tape, Yellow or White	Linear Foot
627.55	12" Temporary Pavement Tape, White	Linear Foot
627.57	12 Inch Removable Black Line Masking Tape	Linear Foot

ESTIMATED QUANTITIES			
ITEM NO.	DESCRIPTION	QUANTITY	UNIT
201.23	REMOVING SINGLE TREE TOP ONLY	1	EA
201.24	REMOVING STUMP	1	EA
202.19	REMOVING EXISTING BRIDGE (490 CY)	1	LS
202.202	REMOVING PAVEMENT SURFACE	310	SY
203.20	COMMON EXCAVATION	400	CY
203.24	COMMON BORROW	10	CY
203.25	GRANULAR BORROW	270	CY
206.082	STRUCTURAL EARTH EXCAVATION - MAJOR STRUCTURES	310	CY
304.10	AGGREGATE SUBBASE COURSE - GRAVEL	300	CY
403.208	HOT MIX ASPHALT 12.5 MM HMA SURFACE	100	T
403.209	HOT MIX ASPHALT 9.5 MM (SIDEWALKS, DRIVES, INCIDENTALS) INCIDENTALS)	40	T
403.211	HOT MIX ASPHALT (SHIMMING)	10	T
403.213	HOT MIX ASPHALT 12.5 MM BASE	190	T
409.15	BITUMINOUS TACK COAT - APPLIED	57	G
501.231	DYNAMIC LOADING TEST	2	EA
501.50	STEEL H-BEAM PILES 89 LBS/FT. DELIVERED	172	LF
501.501	STEEL H-BEAM PILES 89 LBS/FT. IN PLACE	172	LF
501.903	PILE TIPS - ROCK INJECTOR POINT	8	EA
501.92	PILE DRIVING EQUIPMENT MOBILIZATION	1	LS
502.219	STRUCTURAL CONCRETE, ABUTMENTS AND RETAINING WALLS (110 CY)	1	LS
502.261	STRUCTURAL CONCRETE ROADWAY & SIDEWALK SLAB ON CONCRETE BRIDGE (50 CY)	1	LS
502.31	STRUCTURAL CONCRETE APPROACH SLABS (22 CY)	1	LS
502.49	STRUCTURAL CONCRETE CURBS AND SIDEWALKS (21 CY)	1	LS
503.12	REINFORCING STEEL, FABRICATED AND DELIVERED	1 12200	LB
503.13	REINFORCING STEEL, PLACING	12200	LB
503.14	EPOXY-COATED REINFORCING STEEL, FABRICATED AND DELIVERED	4616	LB
503.15	EPOXY-COATED REINFORCING STEEL, PLACING	4616	LB
503.171	MECHANICAL / WELDED SPLICE (90 EA)	1	LS
507.0821	STEEL BRIDGE RAILING, 3 BAR (52 LF)	1	LS
507.0831	STEEL BRIDGE RAILING, 4 BAR (52 LF)	1	LS
508.14	HIGH PERFORMANCE WATERPROOFING MEMBRANE (240 SY)	1	LS
511.07	COFFERDAM: ABUTMENT No. 1	1	LS
511.07	COFFERDAM: ABUTMENT No. 2	1	LS
512.081	FRENCH DRAINS (80 LF)	1	LS
514.06	CURING BOX FOR CONCRETE CYLINDERS	1	EA
515.21	PROTECTIVE COATING FOR CONCRETE SURFACES (160 SY)	1	LS
524.301	TEMPORARY STRUCTURAL SUPPORT	1	LS
526.301	TEMPORARY CONCRETE BARRIER TYPE 1 (80 LF)	1	LS
526.34	PERMANENT CONCRETE TRANSITION BARRIER	4	EA
527.34	WORK ZONE CRASH CUSHIONS	4	UN
535.60	PRESTRESSED STRUCTURAL CONCRETE SLAB (120 CY)	1	LS
603.159	12 INCH CULVERT PIPE OPTION III	200	LF
604.092	CATCH BASIN TYPE BI-C	3	EA
604.18	ADJUSTING MANHOLE OR CATCH BASIN TO GRADE	1	EA
604.244	CATCH BASIN TYPE F4	2	EA
605.11	12 INCH UNDERDRAIN TYPE C	100	LF
606.1721	BRIDGE TRANSITION - TYPE 1	3	EA
606.231	GUARDRAIL TYPE 3C - 15 FOOT RADIUS AND LESS	50	LF
606.265	TERMINAL END - SINGLE RAIL - GALVANIZED STEEL	3	EA
606.353	REFLECTORIZED FLEXIBLE GUARDRAIL MARKER	8	EA
606.79	GUARDRAIL 350 FLARED TERMINAL	1	EA
608.45	CONSTRUCT SIDEWALK	35	SF
609.31	CURB TYPE 3	80	SY
609.38	RESET CURB TYPE 1	312	LF
610.08	PLAIN RIPRAP	20	LF
610.18	STONE DITCH PROTECTION	330	CY
613.319	EROSION CONTROL BLANKET	11	CY
615.07	LOAM	30	SY
618.14	SEEDING METHOD NUMBER 2	10	CY
619.1201	MULCH	2	UN
619.1401	EROSION CONTROL MIX	2	UN
2 ~~620.53~~	~~EROSION CONTROL GEOTEXTILE~~	~~20~~	~~CY~~
627.55	12" TEMPORARY PAVEMENT TAPE, WHITE	48	LF
~~627.732~~	~~4" WHITE OR YELLOW PAINTED PAVEMENT MARKING LINE~~	~~440~~	~~SY~~
627.76	TEMPORARY PAVEMENT MARKING LINE, WHITE OR YELLOW	1240	LF
627.77	REMOVING PAVEMENT MARKINGS	1	LS
629.05	HAND LABOR, STRAIGHT TIME	415	SF
631.12	ALL PURPOSE EXCAVATOR (INCLUDING OPERATOR)	40	HR
631.15	ROLLER, EARTH AND BASE COURSE (INCLUDING OPERATOR)	40	HR
631.172	TRUCK - LARGE (INCLUDING OPERATOR)	20	HR
639.19	FIELD OFFICE TYPE B	20	HR
643.72	TEMPORARY TRAFFIC SIGNAL	1	EA
652.312	TYPE III BARRICADE	1	LS
652.33	DRUM	4	EA
652.34	CONE	40	EA
652.35	CONSTRUCTION SIGNS	80	EA
652.361	MAINTENANCE OF TRAFFIC CONTROL DEVICES (180 CD)	200	SF
652.38	FLAGGER	1	LS
652.41	PORTABLE CHANGEABLE MESSAGE SIGN	250	HR
		3	EA

ESTIMATED QUANTITIES			
ITEM NO.	DESCRIPTION	QUANTITY	UNIT
656.75	TEMPORARY SOIL EROSION AND WATER POLLUTION CONTROL	1	LS
659.10	MOBILIZATION	1	LS

GENERAL CONSTRUCTION NOTES

1. For easements, construction limits and right of way lines, refer to Right of Way Map.

2. The clearing limits as shown on the plans are approximate. The exact limits will be established in the field by the Resident. Payment for clearing will be considered incidental to Contract items.

3. All utility facilities shall be adjusted by the respective utilities unless otherwise noted.

4. Do not excavate for Aggregate Subbase Course where existing material is suitable as determined by the Resident.

5. In areas where the Resident directs the Contractor not to excavate to the subgrade line shown on the plans, payment for removing existing pavement, grubbing, shaping, ditching, and compacting the existing subbase and layers of new subbase 6 inches or less thick will be made under appropriate equipment rental items.

6. All embankment material, except as otherwise shown, placed below EL. 107.06 shall be Granular Borrow meeting the requirements of Subsection 703.19, Material for Underwater Backfill.

7. Place riprap on sideslopes up to EL. 110.5'±.

8. Construct the riprap shelf at Abutment No. 1 at EL. 112.0'± and Abutment No. 2 at EL.110.5'±.

9. Place loam 2 inches deep on all new or reconstructed sideslopes or as directed by the Resident.

10. Erosion Control Mix may be substituted in those areas normally receiving loam and seed as directed by the Resident. Placement shall be in accordance with Standard Specifications Section 619, Mulch. Payment will be made under Item No. 619.1401, Erosion Control Mix.

11. Place a 24-in. wide strip of Temporary Erosion Control Blanket on the sideslopes along the top of the riprap and behind the wingwalls.

12. An NCHRP350 compliant guardrail end treatment shall be installed concurrently with the placement of each section of beam guardrail.

13. Extended-use Erosion Control Blanket, seeded gutters, riprap downspouts, and other gutters lined with Stone Ditch Protection shall be constructed after paving and shoulder work is completed, where it is apparent that runoff will cause continual erosion. Payment will be made under the appropriate Contract items.

14. Protective Coating for Concrete Surfaces shall be applied to the following areas:

All exposed surfaces of concrete curbs and sidewalks.
Fascias down to the drip notch.
All exposed surfaces of Concrete Transition Barriers.
Top of abutment backwalls and to one foot below the top of backwalls on the back side.

15. Project information referred to below may be accessed at the following MaineDOT web address: http://www.maine.gov/mdot/contractors/

16. The existing bridge plans may be accessed at the MaineDOT web address. The plans are reproductions of the original drawings as prepared for the construction of the bridge. It is very unlikely that the plans will show any construction field changes or any alterations which may have been made to the bridge during its life span.

17. The hydrologic report of the bridge site may be accessed at the MaineDOT web address. The hydrologic report is based on MaineDOT's interpretation of the information obtained for the subject site. No assurance is given that the information or the conclusions of the report will be representative of actual conditions at the time of construction.

18. The project geotechnical report titled: GEOTECHNICAL DESIGN REPORT for the Replacement of : CAIN BRIDGE OVER TWELVE MILE BROOK, CLINTON, MAINE, Soils Report No. 2015-20, July 30, 2015 may be accessed at the MaineDOT web address.

19. Geotechnical information furnished or referred to in this plan set is for the use of the Bidders and the Contractor. No assurance is given that the information or interpretations will be representative of actual subsurface conditions at the construction site. MaineDOT will not be responsible for the Bidders' or Contractor's interpretations of, or conclusions drawn from, the geotechnical information. The boring logs contained in the plan set present factual and interpretive subsurface information collected at discrete locations. Data provided may not be representative of the subsurface conditions between the boring locations.

20. Quantities included for pay items measured and paid for by Lump Sum are estimated quantities and are provided by MaineDOT for informational purposes only. Lump Sum pay items will be paid for at the Contract Bid amount, with no addition or reduction in payment to the Contractor if the actual final quantities are different from the MaineDOT provided estimated quantities, except as follows:

a. If a Lump Sum pay item is eliminated, the requirements of Standard Specifications Section 109.2, Elimination of Items, will take precedence.

b. If other Contract Documents specifically allow a change in payment for a Lump Sum pay item, those requirements will be followed.

c. If a design change results in changes to estimated quantities for Lump Sum pay items, price adjustments will be made in accordance with Standard Specifications Section 109.7, Equitable Adjustments to Compensation.

21. The Contractor shall submit a Bridge Demolition Plan to the Resident at least 10 business days prior to the start of demolition work. The plan shall outline the methods and equipment to be used to remove and dispose of all materials included in the existing bridge. No work related to the removal of the bridge shall be undertaken by the Contractor until MaineDOT has reviewed the Bridge Demolition Plan for appropriateness and completeness. Payment for all work necessary for developing, submitting and finalizing the Demolition Plan will be considered incidental to the bridge removal pay item.

22. Access to the fire hydrant at approximately Sta. 15+41.00 shall not be blocked when the Contractor does not have personnel on site.

STATE OF MAINE
DEPARTMENT OF TRANSPORTATION

STP-2048(000)

WIN 20480.00

BRIDGE NO. 2117

BRIDGE PLANS

PROJ. MANAGER	M. WIGHT	BY	DATE
DESIGN-DETAILED	J. HASBROUCK	D. SULLIVAN	DEC 2015
CHECKED-REVIEWED	B. REEVES	W. ROHMAN	JUN 2014
DESIGN2-DETAILED2	L. KRUSINSKI	T. WHITE	-----
DESIGN3-DETAILED3	-----	W. ROHMAN	JAN 2016
REVISIONS 1	1 Updated Quantities		JAN 2016
REVISIONS 2	2 Added Item • 627.55		JAN 2016
REVISIONS 3	-----		-----
REVISIONS 4	-----		-----
FIELD CHANGES	-----		-----

SIGNATURE

P.E. NUMBER

DATE

CAIN BRIDGE
TWELVE MILE BROOK
CLINTON KENNEBEC COUNTY

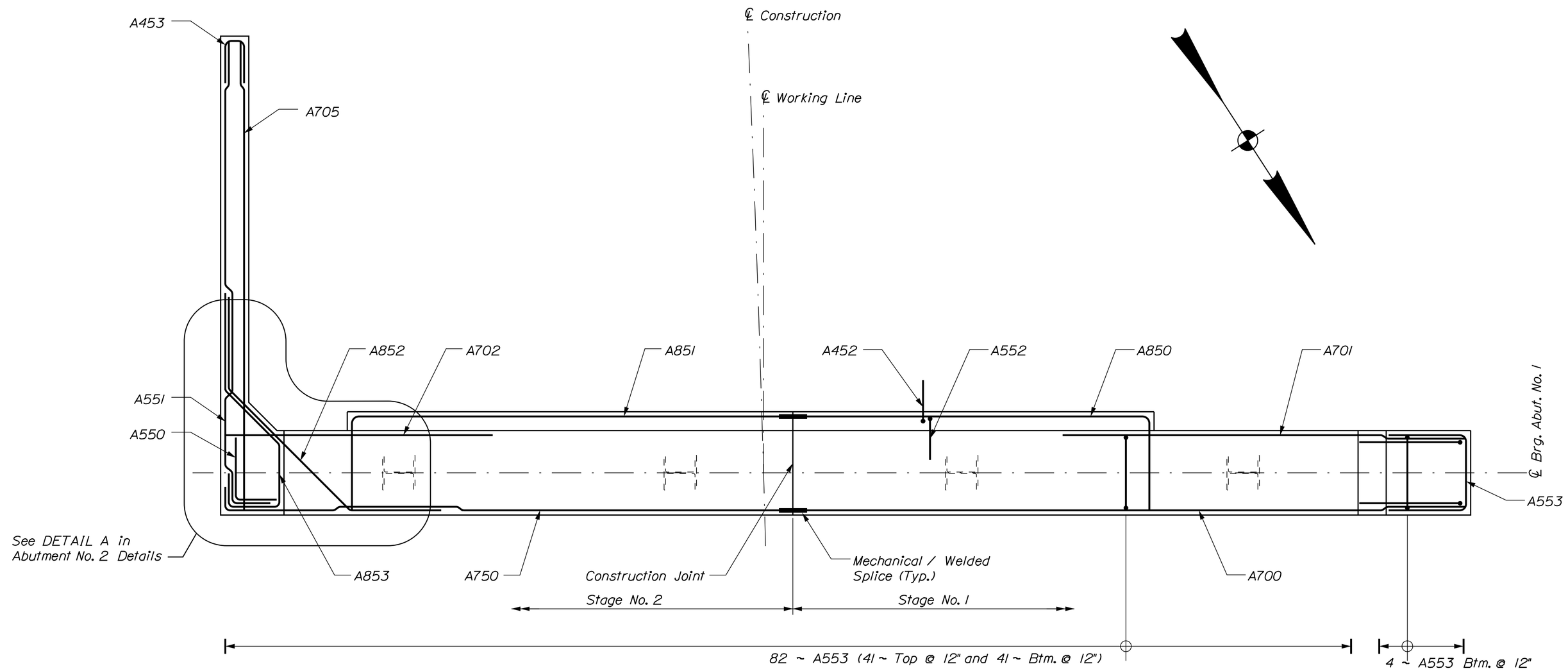
ESTIMATED QUANTITIES

SHEET NUMBER
2
OF 27

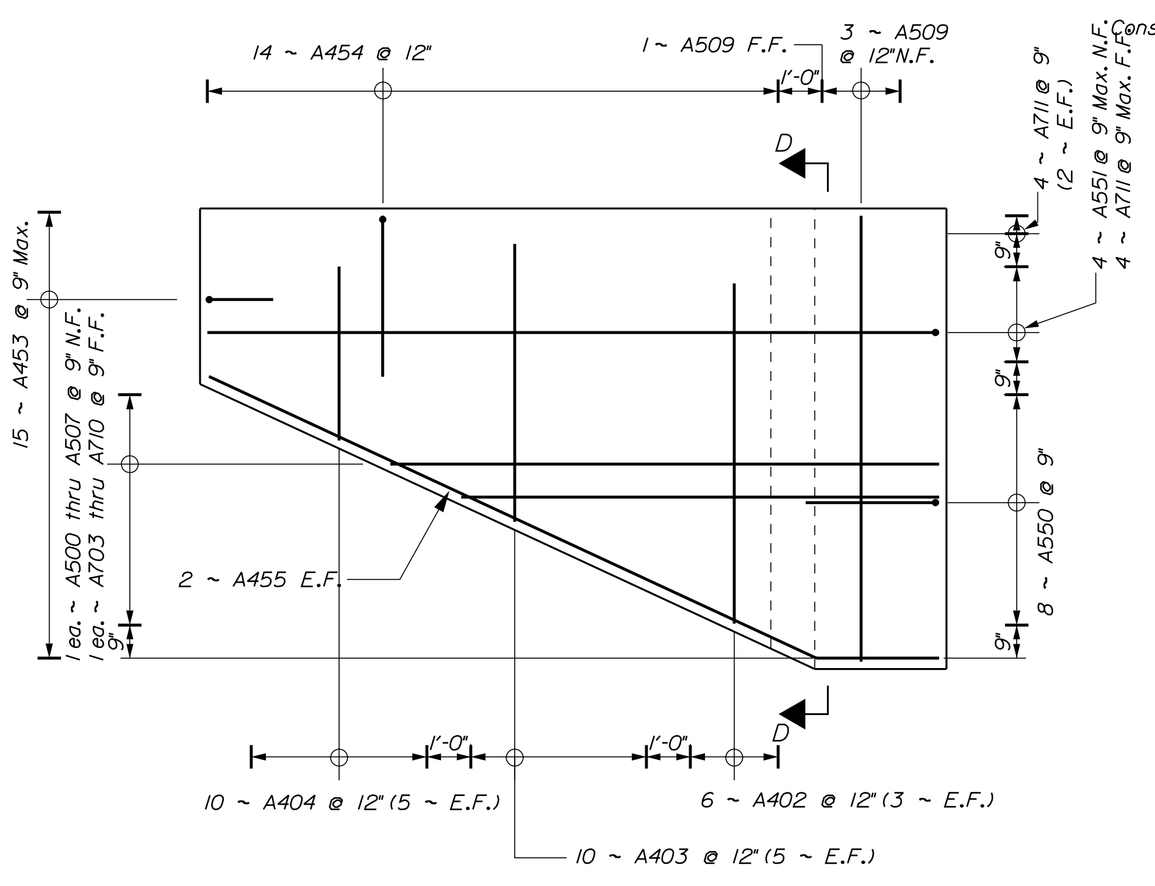
Filename: $file$ Division: $wkgroup$ Username: $user$ Date:$date$

LEGEND

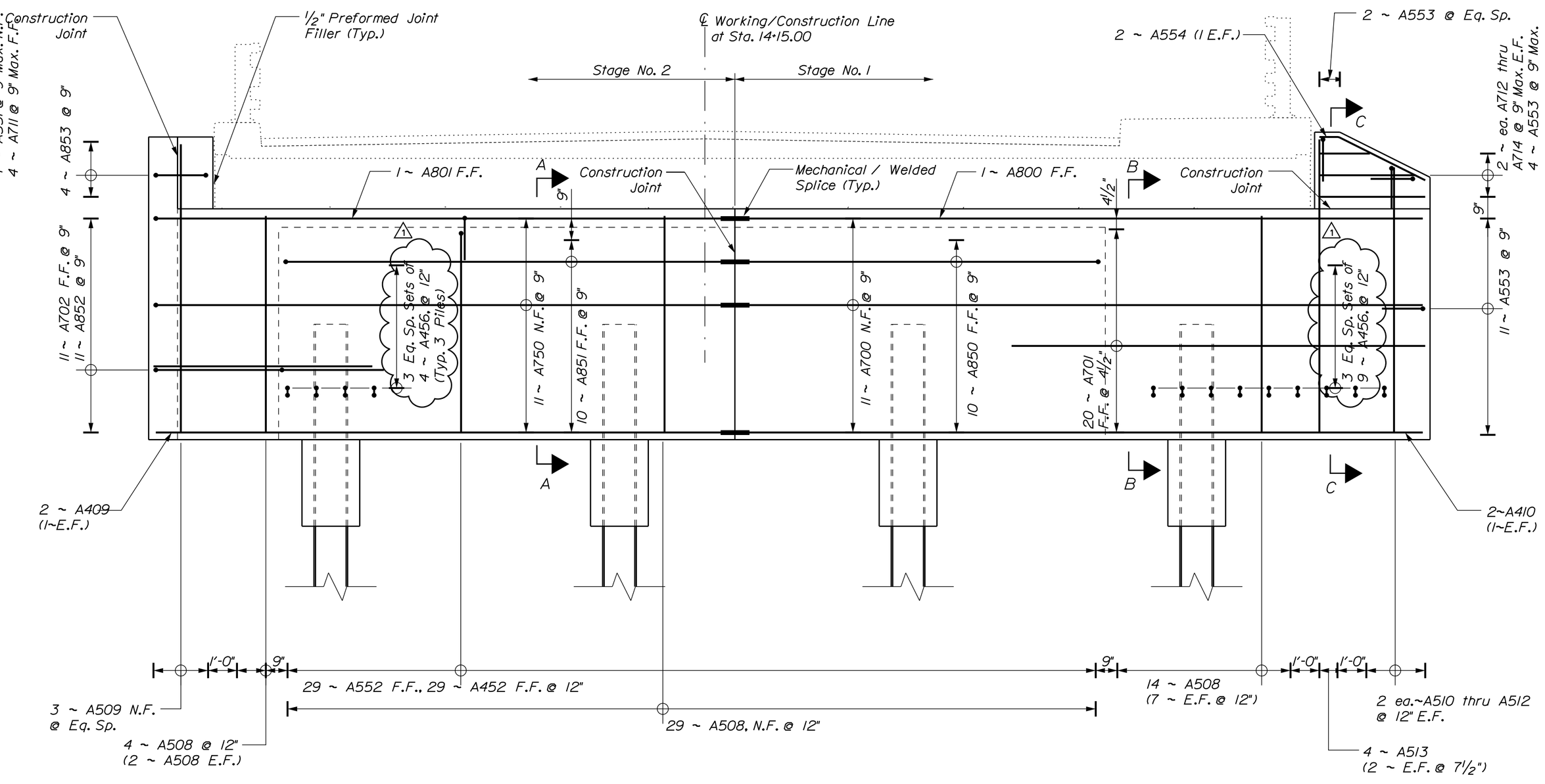
N.F. = Near Face
F.F. = Far Face
E.F. = Each Face
Eq. Sp. = Equally Spaced



ABUTMENT No. 1 REINFORCING STEEL PLAN



ABUTMENT No. 1 WINGWALL REINFORCING STEEL ELEVATION



ABUTMENT No. 1 REINFORCING STEEL ELEVATION

STATE OF MAINE
DEPARTMENT OF TRANSPORTATION

STP-2048(000)

WIN 20480.00

BRIDGE NO. 2117

BRIDGE PLANS

PROJ. MANAGER	M. WIGHT	BY	DATE
DESIGN-DETAILED	J. HASBROUCK	D. SULLIVAN	DEC 2015
CHECKED-REVIEWED	B. REEVES	W. ROHMAN	JUN 2014
DESIGN2-DETAILED2	L. KRUSINSKI	T. WHITE	-----
DESIGN3-DETAILED3	-----	W. ROHMAN	JAN 2016
REVISIONS 1	Changed bar number to B		-----
REVISIONS 2	-----		-----
REVISIONS 3	-----		-----
REVISIONS 4	-----		-----
FIELD CHANGES	-----		-----

SIGNATURE

P.E. NUMBER

DATE

CAIN BRIDGE
TWELVE MILE BROOK
CLINTON KENNEBEC COUNTY

ABUTMENT No. 1 DETAILS

SHEET NUMBER

15

OF 27

Filename: $file$ Division: $wkgroup$ Username: $user$ Date:$date$

STRAIGHT BARS

REINFORCING STEEL - BLACK
ABUTMENT No. 1

MARK	QTY.	LENGTH	LOCATION
A402	6	7'-9"	Wingwall
A403	10	6'-4"	Wingwall
A404	10	4'-0"	Wingwall
A409	2	20'-0"	Horizontal
A410	2	23'-9"	Horizontal
A500	1	4'-4"	Wing Wall Horiz. N.F.
A501	1	6'-0"	Wing Wall Horiz. N.F.
A502	1	7'-7"	Wing Wall Horiz. N.F.
A503	1	9'-2"	Wing Wall Horiz. N.F.
A504	1	10'-10"	Wing Wall Horiz. N.F.
A505	1	12'-6"	Wing Wall Horiz. N.F.
A506	1	14'-0"	Wing Wall Horiz. N.F.
A507	1	15'-8"	Wing Wall Horiz. N.F.
A508	47	7'-6"	Vertical
A509	7	10'-0"	Vertical
A510	2	8'-8"	Parapet Vertical
A511	2	9'-2"	Parapet Vertical
A512	2	9'-8"	Parapet Vertical
A513	4	10'-2"	Parapet Vertical
A700	11	23'-9"	Abut. Horz N.F.
A701	20	14'-4"	Abut. Horz. F.F.
A702	11	7'-7"	Abut Horiz. F.F.
A703	1	4'-4"	Wing Wall Horiz. F.F.
A704	1	6'-0"	Wing Wall Horiz. F.F.
A705	1	7'-7"	Wing Wall Horiz. F.F.
A706	1	9'-2"	Wing Wall Horiz. F.F.
A707	1	10'-10"	Wing Wall Horiz. F.F.
A708	1	12'-6"	Wing Wall Horiz. F.F.
A709	1	14'-0"	Wing Wall Horiz. F.F.
A710	1	15'-8"	Wing Wall Horiz. F.F.
A711	8	16'-8"	Wing Wall Horiz. F.F.
A712	2	3'-8"	Parapet Horiz. Top
A713	2	3'-4"	Parapet Horiz. Top
A714	2	1'-9"	Parapet Horiz. Top
A800	1	23'-9"	Horiz. F.F.
A801	1	20'-0"	Horiz. F.F.

ABUTMENT No. 2

MARK	QTY.	LENGTH	LOCATION
B402	16	7'-2"	Wing Wall Vertical
B403	16	4'-6"	Wing Wall Vertical
B404	2	21'-11"	Horizontal Bottom
B405	2	19'-11"	Horizontal Bottom
B500	4	3'-11"	Wing Wall Horiz. N.F.
B501	4	6'-3"	Wing Wall Horiz. N.F.
B502	4	8'-7"	Wing Wall Horiz. N.F.
B503	4	10'-10"	Wing Wall Horiz. N.F.
B504	~~47~~ 1	7'-8"	Vertical
B505	20	10'-0"	Vertical
B700	16	12'-8"	Wing Wall Horiz. F.F.
B701	4	3'-11"	Wing Wall Horiz. F.F.
B702	4	6'-3"	Wing Wall Horiz. F.F.
B703	4	8'-7"	Wing Wall Horiz. F.F.
B704	4	10'-10"	Wing Wall Horiz. F.F.
2 B800	10	12'-8"	Horiz. F.F.
B801	10	7'-8"	Horiz. F.F.
B802	1	22'-0"	Horiz. F.F.
B803	1	20'-0"	Horiz. F.F.

REINFORCING STEEL - EPOXY COATED
SUPERSTRUCTURE

MARK	QTY.	LENGTH	LOCATION
S500	52	31'-10"	Longitudinal
S501	42	19'-8"	Transverse
S502	42	17'-9"	Transverse
SW500	14	31'-10"	Longitudinal
C500	6	31'-10"	Longitudinal

BENT BARS

REINFORCING STEEL - BLACK
ABUTMENT No. 1

MARK	QTY.	LENGTH	TYPE	A	B	C	D	E	F	G	H	O	R	LOCATION
A452	29	3'-0"	L	1'-6"	1'-6"									Vert., Anchor for Approach Slab
A453	15	3'-8"	SL		1'-6"	0'-8"	1'-6"							Horizontal., End of Wing Wall
A454	14	8'-0"	SL		3'-8"	0'-8"	3'-8"							Top of Wing Wall
A455	2	18'-0"	V				15'-2"	2'-10"			6.375'			Bottom of Wing Wall
A456	63	3'-8"	C	0'-6"	2'-8"	0'-6"								Hook around Pile Tops
A550	8	4'-10"	L	3'-0"	1'-10"									Horizontal Wing Wall
A551	4	18'-6"	L	16'-8"	1'-10"									Horizontal Wing Wall
A552	~~29~~ 1	8'-5"	L	6'-11"	1'-6"									Vert., Approach Slab Bump-out
A553	103	5'-8"	SL		1'-6"	2'-8"	1'-6"							Vert. Top & Btm of Abut & Horz Side
A554	2	4'-0"	V				3'-4"	0'-8"			1.49'			Top of Parapet
A750	11	21'-2"	L	20'-0"	1'-2"									Horizontal Abutment Downstream
A850	10	16'-0"	L	12'-7"	3'-4"									Horizontal Abutment Upstream
A851	10	19'-0"	L	15'-7"	3'-4"									Horizontal Abutment Downstream
A852	11	13'-2"	M			3'-6"	6'-2"	3'-6"			2.479'			Horizontal Abutment Downstream
A853	4	12'-0"	SJ	3'-6"	2'-8"	2'-6"	1'-10"	1'-6"						Horizontal Abutment Downstream

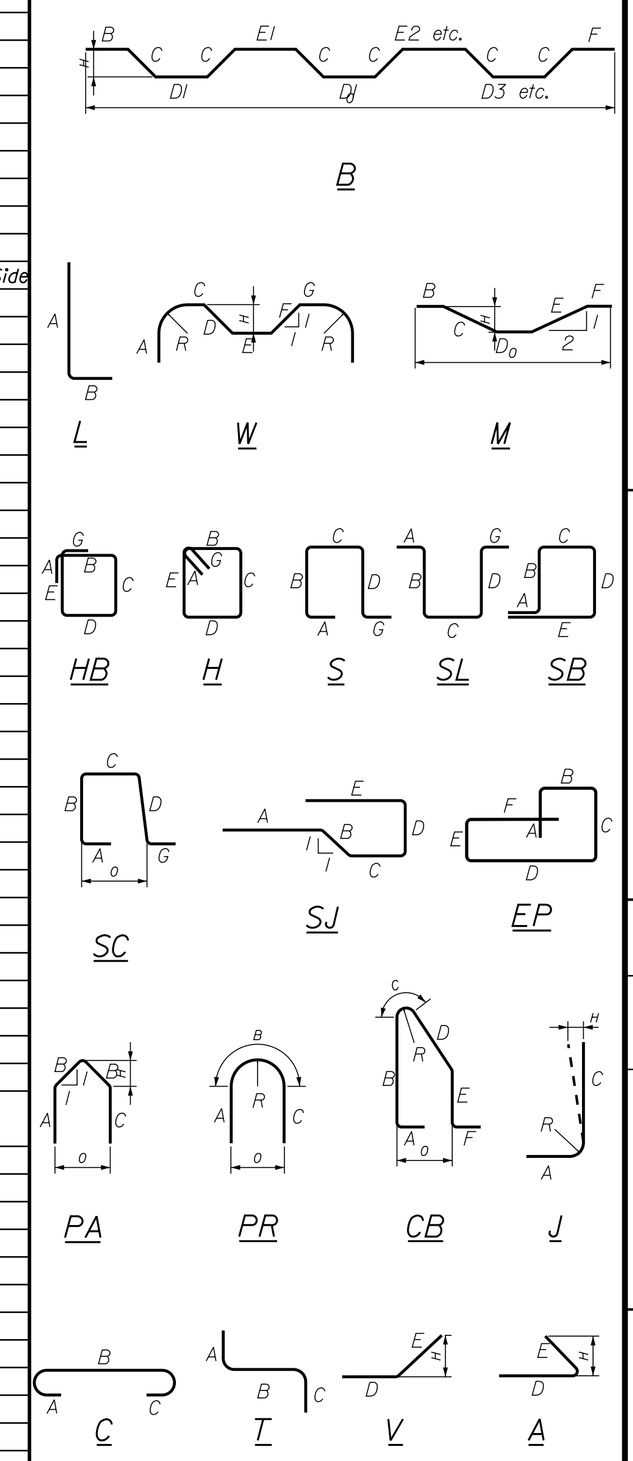
ABUTMENT No. 2

MARK	QTY.	LENGTH	TYPE	A	B	C	D	E	F	G	H	O	R	LOCATION
B452	29	3'-0"	L	1'-6"	1'-6"									Vert., Anchor for Approach Slab
B453	28	3'-8"	S		1'-6"	0'-8"	1'-6"							Horizontal., End of Wing Wall
B454	20	8'-0"	S		3'-8"	0'-8"	3'-8"							Top of Wing Wall
B455	4	14'-7"	V				2'-9"	11'-10"			6.41'			Bottom of Wing Wall
B456	48	3'-8"	C	0'-6"	2'-8"	0'-6"								Hook around Pile Tops
B550	16	4'-10"	L	3'-0"	1'-10"									Horizontal Wing Wall
B551	8	14'-6"	L	12'-8"	1'-10"									Horizontal Wing Wall
B552	29	8'-5"	L	6'-11"	1'-6"									Vert., Approach Slab Bump-out
B553	88	5'-8"	S		1'-6"	2'-8"	1'-6"							Vert., Top & Bottom Abutment
B750	11	23'-2"	L	22'-0"	1'-2"									Horizontal Abutment Upstream
B751	11	21'-2"	L	20'-0"	1'-2"									Horizontal Abutment Downstream
B850	10	15'-10"	L	12'-6"	3'-4"									Horizontal Abutment Upstream
B851	10	18'-11"	L	15'-7"	3'-4"									Horizontal Abutment Downstream
B852	22	13'-2"	M			3'-6"	6'-3"	3'-6"			2.48'			Horizontal Abutment Upstream
B853	8	12'-0"	SJ	3'-8"	2'-8"	2'-6"	1'-10"	1'-6"						Horizontal Abutment Downstream

REINFORCING STEEL - EPOXY COATED
SUPERSTRUCTURE

MARK	QTY.	LENGTH	TYPE	A	B	C	D	E	F	G	H	O	R	LOCATION
S550	63	8'-10"	SC		1'-1"	6'-3"	1'-1"			0'-6"		6'-4"		Sidewalk Transverse

TYPE - BENDING DIAGRAMS



All dimensions are out-to-out of bar.

Bending details and hooks shall conform to the recommendations of the current revision of ACI Standard 315 and ACI Standard 318.

Reinforcing Bar: ASTM A615/A615M, Grade 60

GENERAL NOTES

1. The first two digits following the letter(s) of the mark indicate the size ofthe bar:

   Mark "A502" = bar size #5
   Mark "P805" = bar size #8
   Mark "S650" = bar size #6

2. Each crank bar, Type B, may be replaced by two (2) straight bars (one top and one bottom) of the same bar size as the crank bar. Payment in either case shall be based on crank bars as schedule on the plans.

STATE OF MAINE
DEPARTMENT OF TRANSPORTATION

STP-2048(000)

WIN 20480.00

BRIDGE PLANS

BRIDGE NO. 2117

		BY	DATE
PROJ. MANAGER		M. WIGHT	
DESIGN-DETAILED		J. HASBROUCK	D. SULLIVAN	DEC 2015
CHECKED-REVIEWED		B. REEVES	W. ROHMAN	
DESIGN2-DETAILED2		L. KRUSINSKI	T. WHITE	JUN 2014
DESIGN3-DETAILED3		-----	W. ROHMAN	-----
REVISIONS 1	1	Update Quantities		JAN 2016
REVISIONS 2	2	Added Reinforcing Steel		JAN 2016
REVISIONS 3		-----		-----
REVISIONS 4		-----		-----
FIELD CHANGES		-----		-----

SIGNATURE

P.E. NUMBER

DATE

CLINTON — CAIN BRIDGE — TWELVE MILE BROOK — KENNEBEC COUNTY

REINFORCING STEEL SCHEDULE

SHEET NUMBER

24

OF 27

Date:$date$ Username: $user$ Division: $wkgroup$ Filename: $file$