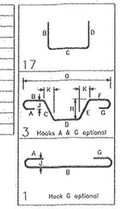
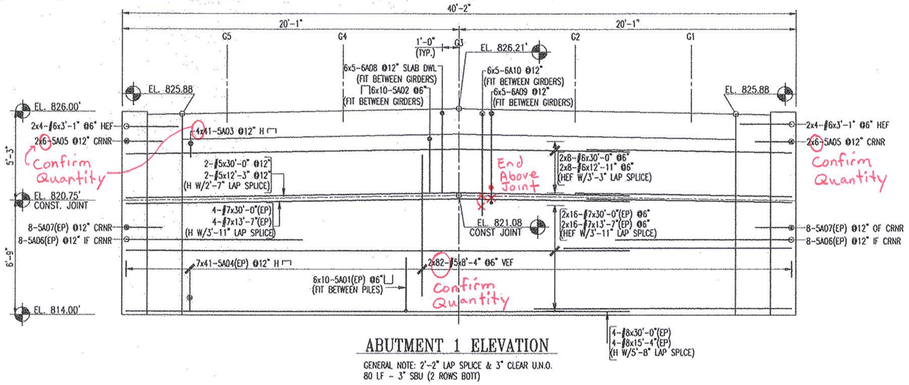
Drawing Sheet : 19-ABUT01				BAR LIST											
Bar Mark	Qty	Size	Total Length	Type	'A'	'B'	'C'	'D'	'E'	'F'	'G'	'H'	'J'	'K'	'L'	'M'
5A01	60	#5	8'-10"	17		3'-2"	3'-6"	3'-2"								
5A04	280	#5	4'-4"	17		10"	2'-8"	10"								
5A06	16	#5	11'-4 K"	3			1'-6"	8'-4 K"	1'-6"				1'-1 K"		1'-K"	10'-5 K"
5A07	16	#5	4'-4"	17		2'-2"	2'-2"									
5A02	60	#5	8'-10"	17		3'-2"	2'-8"	3'-2"								
5A03	164	#5	4'-4"	17		10"	2'-8"	10"								
5A05	24	#5	4'-4"	17		2'-2"	2'-2"									
6A08	30	#6	7'-2"	17		2'-8"	4'-8"									
6A09	30	#6	8'-8"	1	8"	5'-4"							8"		6"	
6A10	30	#6	7'-1 K"	3	8"	5'-0"	1'-5 K"						1'-1"		8"	1'-K"

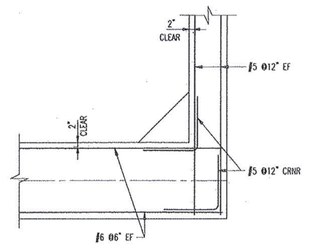
Confirm Length





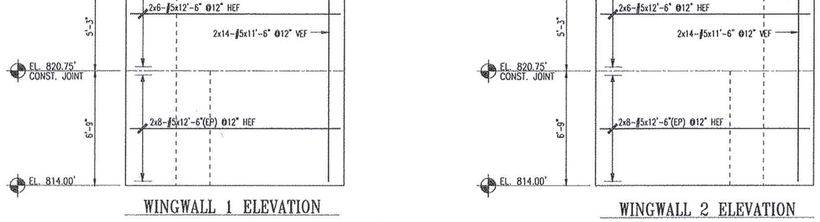
ABUTMENT 1 ELEVATION

GENERAL NOTE: 2'-2" LAP SPLICE & 3" CLEAR U.N.O.
80 LF - 3" SBU (2 ROWS BOTT)



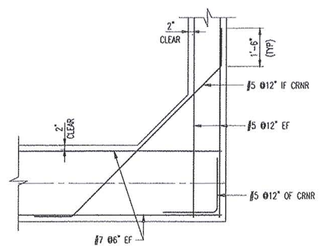
TYP CRNR DETAIL

ABOVE CONST. JOINT



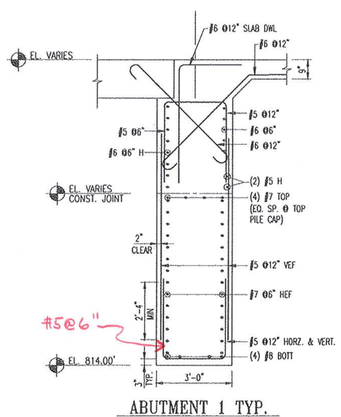
WINGWALL 1 ELEVATION

WINGWALL 2 ELEVATION

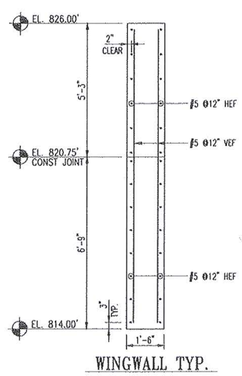


TYP CRNR DETAIL

BELOW CONST. JOINT



ABUTMENT 1 TYP.



WINGWALL TYP.

Vermont Agency of Transportation

Rochester-ER BRF 0162(28) Rebar ZH and W.pdf

RECEIVED

ON: May 9, 2014

and Checked for

CONFORMANCE

BY: Jennifer Fitch DATE: 05/22/2014

SHOP DRAWING REVIEW

☐ REVIEWED AS REQUIRED BY THE CONSTRUCTION CONTRACT DOCUMENTS AND APPROVED, BUT ONLY FOR CONFORMANCE TO THE DESIGN CONCEPT OF THE WORK, AND SUBJECT TO FURTHER LIMITATIONS AND REQUIREMENTS CONTAINED IN THE CONSTRUCTION CONTRACT DOCUMENTS.

☐ REJECTED ☒ REVISE AND RESUBMIT ☐ FURNISH AS CORRECTED

CORRECTIONS OR COMMENTS MADE ON THE SHOP DRAWINGS DURING THIS REVIEW DO NOT RELIEVE CONTRACTOR FROM COMPLIANCE WITH REQUIREMENTS OF THE DRAWINGS AND SPECIFICATIONS. THIS CHECK IS ONLY FOR REVIEW OF GENERAL CONFORMANCE WITH THE DESIGN CONCEPT OF THE PROJECT AND GENERAL COMPLIANCE WITH THE INFORMATION GIVEN IN THE CONTRACT DOCUMENTS. THE CONTRACTOR IS RESPONSIBLE FOR: CONFIRMING AND CORRELATING ALL QUANTITIES AND DIMENSIONS; SELECTING FABRICATION PROCESSES AND TECHNIQUES OF CONSTRUCTION; COORDINATING HIS WORK WITH THAT OF ALL OTHER TRADES; AND PERFORMING HIS WORK IN A SAFE AND SATISFACTORY MANNER.

VHB Vanasse Hangen Brustlin, Inc.

Job Number: 57517.00
Reviewed By: BMann
Date: 5-22-14

LAP CHART-U.N.O.		
#11	103"	71"
#10	81"	58"
#9	64"	46"
#8	51"	35"
#7	50"	24"
#6	29"	20"
#5	29"	16"
#4	18"	15"
#3	15"	12"
SIZE	TOP BARS ★	OTHER BARS

★ -Top bars are horiz. bars with more than 12" of concrete cast below the bars.

ALL MTRL. ON THIS DWG NOTED W/ (EP) SHALL BE ASTM A775 GRADE 60 "EPOXY COATED" U.N.O.

ALL OTHER MTRL. ABOVE & LAPPING C.J. TO BE DUAL COATED REINF.

No.	Description	Date	By
0	SENT FOR APPROVAL	5-7-14	MAD

Revisions and Issue Record

The full intent and purpose of this drawing is the placing of reinforcing steel bars ONLY. It is NOT to be used as a means of communication between the Architect, Engineer, Contractor or any other Sub-trades.

THIS DRAWING IS NOT TO BE SCALED.

Harris Rebar Barker Steel — National Strength. Local Service.

DETAILED AT: MILFORD MASSACHUSETTS

Project: BRF 0162 VT RTE 73 & 100 ROCHESTER, VT

Drawing: BR #19 ABUT. #1 & WINGWALL REINF

Customer: W.M. SCHULTZ CONSTRUCTION, INC.

Engineer: VANASSE HANGEN BRUSTLIN, INC.

Refer to Release:

Date	Drawn	Chkd.	JOB No.	Dwg. No.
04/29/2014	MAD	JOE	33505211	19-AB-R01

W:\Melissa Proj. Folder\33505211-W.M. Schultz Const.-Rochester Bridge\Placing Drawings\DWGs\BR19-ABT01-R01.dwg

#10 & #5 Foundation Starter Bars

Confirm Quantity

5A22 Leg Length of 2'-8" may not fit @ this end

#5 Bar Sloped Along top of Wall

Show Corner Bars

Increments

Missing Info

Show Bar Length Increments

#10

Center Bridge Seat Bars

#5 Bar

#10 Bar

can these be 5A02

similar Callout to 19-ABUT2 Quantity (EP)?

Missing Info

Show Corner Bars

#5 Bar Sloped Along top of wall

Increments

Vermont Agency of Transportation

RECEIVED

ON: May 9, 2014

and Checked for

CONFORMANCE

BY: Jennifer Fitch DATE: 05/22/2014

SHOP DRAWING REVIEW

☐ REVIEWED AS REQUIRED BY THE CONSTRUCTION CONTRACT DOCUMENTS AND APPROVED, BUT ONLY FOR CONFORMANCE TO THE DESIGN CONCEPT OF THE WORK, AND SUBJECT TO FURTHER LIMITATIONS AND REQUIREMENTS CONTAINED IN THE CONSTRUCTION CONTRACT DOCUMENTS.

☐ REVISE AND RESUBMIT ☐ FURNISH AS CORRECTED

☐ REJECTED

CORRECTIONS OR COMMENTS MADE ON THE SHOP DRAWINGS DURING THIS REVIEW DO NOT RELIEVE CONTRACTOR FROM COMPLIANCE WITH REQUIREMENTS OF THE DRAWINGS AND SPECIFICATIONS. THIS CHECK IS ONLY FOR REVIEW OF GENERAL CONFORMANCE WITH THE DESIGN CONCEPT OF THE PROJECT AND GENERAL COMPLIANCE WITH THE INFORMATION GIVEN IN THE CONTRACT DOCUMENTS. THE CONTRACTOR IS RESPONSIBLE FOR CONFIRMING AND CORRELATING ALL QUANTITIES AND DIMENSIONS; SELECTING FABRICATION PROCESSES AND TECHNIQUES OF CONSTRUCTION; COORDINATING HIS WORK WITH THAT OF ALL OTHER TRADES; AND PERFORMING HIS WORK IN A SAFE AND SATISFACTORY MANNER.

VHB Vanasse Hangen Brustlin, Inc.

Job Number: 57517.00

Reviewed By: R Moore

Date: 5-22-14

ALL MTRL. ON THIS DWG NOTED W/ (EP) SHALL BE ASTM A775 GRADE 60 "EPOXY COATED" U.N.O.

ALL OTHER MTRL. ABOVE & LAPPING C.J. TO BE DUAL COATED REINF.

No.	Description	Date	By
0	SENT FOR APPROVAL	5-7-14	MAD

Revisions and Issue Record

The full intent and purpose of this drawing is the placing of reinforcing steel bars ONLY. It is NOT to be used as a means of communication between the Architect, Engineer, Contractor or any other Sub-trades.

THIS DRAWING IS NOT TO BE SCALED.

HarrisRebar Barker Steel — National Strength. Local Service.

DETAILED AT: MILFORD MASSACHUSETTS

Project: BRF 0162 VT Rte, 73 & 100 ROCHESTER, VT

Drawing: BR 19 ABUT #2 & WINGWALL REINF, & SECTIONS

Customer: W.M. SCHULTZ CONSTRUCTION INC

Engineer: VANASSE HANGEN BRUSTLIN, INC.

Refer to Release:

Date	Drawn	Chkd.	JOB No.	Dwg. No.
04/24/2014	MAD	JOE	33505211	19-AB-R02

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Drawing Sheet : 19-ABUT2					BAR LIST											
Bar Mark	Qty	Size	Total Length	Type	'A'	'B'	'C'	'D'	'E'	'F'	'G'	'H'	'J'	'K'	'L'	'R'
5A02	76	#5	6'-7"	17		10"	5'-9"									
5A03	124	#5	9'-5"	25		1'-6"	2'-9 X"	10"	2'-9 X"	1'-6"			7'-8 X"		1'-4 X"	
10A01	42	#10	14'-8"	17		1'-10"	12'-10"									
5A04	17	#5	7'-8 X"	3		2'-2"	5'-8 X"						3'-2 X"		4'-8 X"	8'-8 X"
5A05	17	#5	7'-4 X"	3		2'-2"	5'-2 X"						3'-4"		4'-3"	8'-5"
5A06	40	#5	10'-1 X"	16	10"	3'-8"	1'-4"	4'-3 X"					3'-1 X"		2'-11 X"	4'-3 X"
5A07	80	#5	8'-8"	16	10"	2'-8"	2'-3"	2'-11 X"					2'-1 X"		2'-9"	4'-3 X"
5A08	37	#5	5'-11"	55	10"	8"	4'-5"									
5A09	37	#5	5'-5"	17		1'-8"	3'-10"									
5A10	25	#5	1'-10"	3		1'-6"	10"						2 X"		6 X"	1'-8 X"
5A11	4	#5	6'-0"	8	2'-2"	1'-8"							2'-2"		1'-8"	
5A12	2	#5	4'-4"	3		2'-2"	2'-2"						1'-3 X"		1'-9"	3'-11"
5A13	2	#5	7'-8 X"	3		4'-3 X"	3'-4 X"						1'-11 X"		2'-9"	7'-4"
5A14	17	#5	10'-1 X"	3		2'-2"	7'-11 X"						2'-3 X"		3'-5 X"	6'-1 X"
5A15	17	#5	9'-10"	3		2'-2"	7'-8 X"						2'-8 X"		3'-2 X"	6'-4 X"
5A16	2	#5	4'-4"	3		2'-2"	2'-2"						9 X"		2'-4"	4'-2 X"
5A17	2	#5	9'-1 X"	3		4'-5 X"	4'-8 X"						1'-7 X"		4'-3 X"	8'-10"
5A19	56	#5	14'-8"	17		1'-10"	12'-10"									
10A18	29	#10	6'-7 X"	17		10 X"	5'-9"									
10A20	104	#10	16'-8"	17		1'-10"	14'-10"									
5A22	53	#5	7'-0"	17		2'-8"	1'-8"	2'-8"								
A23a	7	#5	20'-0"			20'-0"										
A23d	7	#5	20'-9"			20'-8"										
First and Last Bar in Vary Group Shown Only																
5A24	8	#5	9'-6"	17		4'-5"	8"	4'-5"								
A25a	2	#5	18'-0"			18'-0"										
A25c	2	#5	21'-1"			21'-1"										
First and Last Bar in Vary Group Shown Only																
5A25	2	#5	9'-8"	17		4'-5"	10"	4'-5"								
5A26	4	#5	10'-0"	17		4'-5"	1'-2"	4'-5"								
5A27	2	#5	10'-6"	17		4'-5"	1'-8"	4'-5"								

Standee (isometric view)	17
	25
Hooks A & G optional	3
	16
Hook G optional	S5
	8
Length	0

WINGWALL 3 ELEVATION

1 SECTION 19-ABUT2 SCALE: N.T.S.

ABUTMENT 2 FNDN PLAN

GENERAL NOTE: 2'-2" LAP SPLICE & 3" CLEAR U.N.O.
410 LF - 3" SBU @48"

ABUTMENT 2 ELEVATION

WINGWALL TYP.

WINGWALL 4 ELEVATION

2 SECTION 19-ABUT2 SCALE: N.T.S.

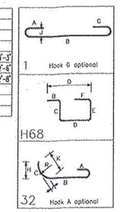
CORNER DETAIL - ABOVE BRIDGE SEAT

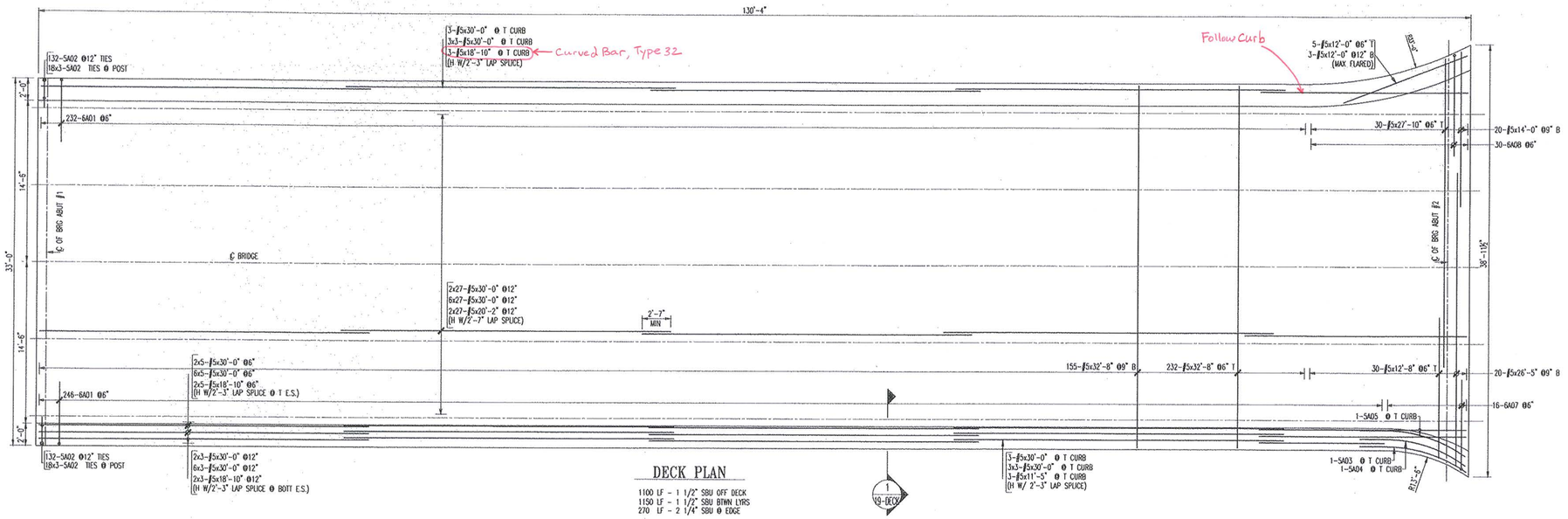
CORNER DETAIL - BELOW BRIDGE SEAT

LAP CHART-U.N.O.		
#11	100"	71"
#10	81"	58"
#9	63"	45"
#8	51"	36"
#7	37"	28"
#6	28"	20"
#5	22"	16"
#4	18"	13"
#3	15"	12"
SIZE	TOP BARS ★	OTHER BARS

★ -Top bars are horiz. bars with more than 12" of concrete cast below this bars.

Drawing Sheet : 19-DECK				BAR LIST												
Bar Mark	Qty	Size	Total Length	Type	'A'	'B'	'C'	'D'	'E'	'F'	'G'	'H'	'J'	'K'	'L'	'M'
6A01	478	#6	5'-3"	1	8"	5'-7"							6"			
5A02	372	#5	5'-2"	H68		10"	10"	1'-6"	1'-0"	18"					2'-5 K"	
5A03	1	#5	10'-1 K"	32		2'-3"	1'-10 K"						2'-3 K"	7"	1'-9 K"	9'-8 K"
5A04	1	#5	10'-1 K"	32		2'-3"	1'-10 K"						2'-4 K"	7 K"	1'-9 K"	9'-7 K"
5A05	1	#5	10'-0"	32		2'-3"	1'-9 K"						2'-4 K"	7 K"	1'-8 K"	9'-7 K"
9A06	78	#9	20'-9"	1	1'-3"	19'-6"								11 K"		
6A07	16	#6	8'-9"	1	8"	8'-1"								6"		
6A08	30	#6	9'-9"	1	8"	9'-1"								6"		

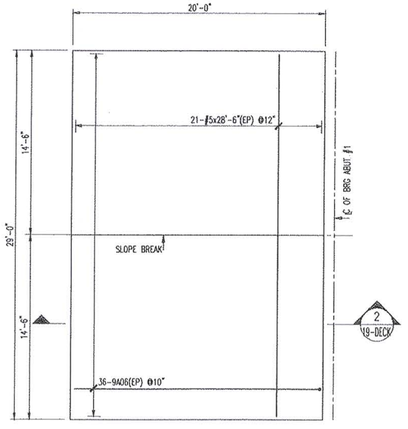




DECK PLAN

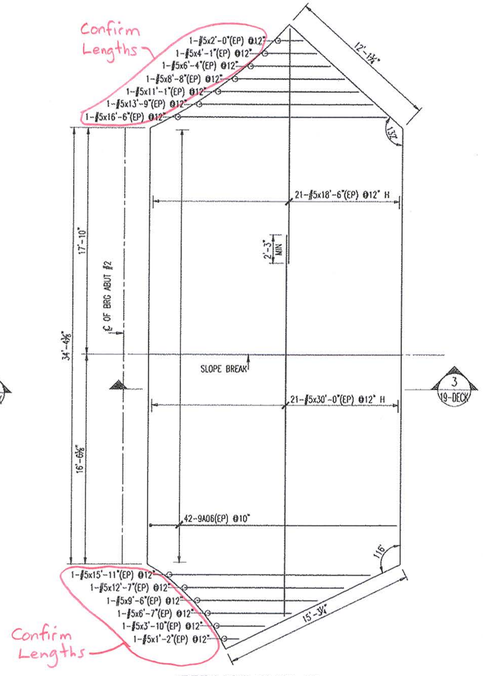
1100 LF - 1 1/2" SBU OFF DECK
1150 LF - 1 1/2" SBU BTWN LYRS
270 LF - 2 1/4" SBU @ EDGE

1 / 19-DECK



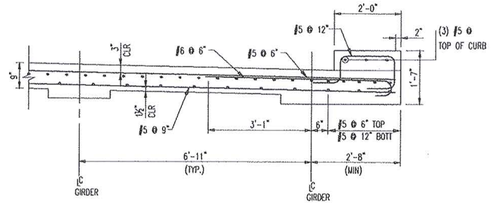
APPROACH SLAB #1

150 LF 3" SBU @ 48° OFF GRADE



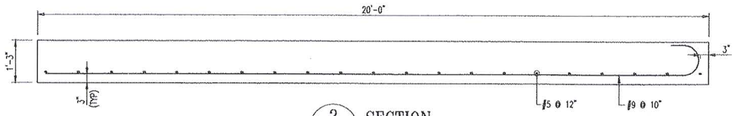
APPROACH SLAB #2

240 LF 3" SBU @ 48° OFF GRADE



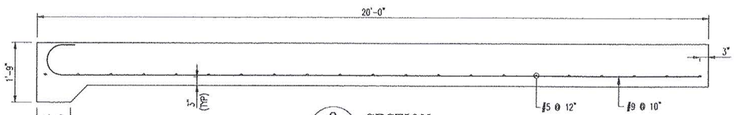
1 / 19-DECK TYP. OVERHANG DETAIL

SCALE: N.T.S.



2 / 19-DECK SECTION

SCALE: N.T.S.



3 / 19-DECK SECTION

SCALE: N.T.S.

LAP CHART-U.N.O.		
#11	100"	71"
#10	81"	58"
#9	64"	45"
#8	51"	36"
#7	39"	28"
#6	28"	20"
#5	20"	15"
#4	16"	13"
#3	11"	12"
SIZE	TOP BARS *	OTHER BARS

* =Top bars are horiz. bars with more than 12" of concrete cast below the bars.

Vermont Agency of Transportation

Rochester ER BRF 0162(18) Rebar (R and R).pdf

RECEIVED

ON: May 9, 2014

and Checked for

CONFORMANCE

BY: Jennifer Fitch DATE: 05/22/2014

SHOP DRAWING REVIEW

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VHB Vanasse Hangen Brustlin, Inc.

Job Number: 52577.00
Reviewed By: B Moen
Date: 5-22-14

ALL MATERIAL ON MAIN DECK TO BE DUAL COATED REINF.

OTHER MTRL. ON THIS DWG NOTED W/ (EP) SHALL BE ASTM A775 GRADE 60 "EPOXY COATED" U.N.O.

No.	Description	Date	By
0	SENT FOR APPROVAL	5-7-14	MAD

Revisions and Issue Record

The full intent and purpose of this drawing is the placing of reinforcing steel bars ONLY. It is NOT to be used as a means of communication between the Architect, Engineer, Contractor or any other Sub-trades.

THIS DRAWING IS NOT TO BE SCALED.

Harrisburg Iron Works Steel — National Strength. Local Service.

DETAILED AT: MILFORD MASSACHUSETTS

Project: BRF 0162 VT RTE 73 & 100 ROCHESTER, VT

Drawing: BR #19 DECK & APP. SLAB REINF PLAN & SECTIONS

Customer: W.M. SCHULTZ CONSTRUCTION, INC

Engineer: VANASSE HANGEN BRUSTLIN, INC.

Refer to Release:

Date	Drawn	Chkd.	JOB No.	Dwg. No.
05/02/2014	MAD	JOE	33505211	19-DECK

W:\Melissa Proj. Folder\33505211-W.M. Schultz Const.-Rochester Bridge\Placing Drawings\DWGs\BR19-DECK.dwg