



**CALCULATION PLAN**

Vermont Agency of Transportation

**RECEIVED**

CK'D BY VHB OK'D BY TAS

March 31, 2017

RESUBMIT                      APPROVED YES  
BY T Sumner DATE 4/11/17

\*\*\* NOTE \*\*\*  
THE PURPOSE OF THIS DRAWING IS TO COORDINATE GEOMETRIC CONTROL INFORMATION. THIS DWG IS SUBMITTED FOR INFORMATION ONLY AND IS NOT INTENDED FOR SHOP FABRICATION.

- NOTES
1. LONGITUDINAL DIMENSIONS ARE SLOPING ALONG BOTTS OF WEB WITH CORRECTIONS MADE FOR VERTICAL CURVE, GRADE & DL CAMBER (UN).
  2. TRANSVERSE DIMENSIONS ARE IN A HORIZ. PLANE (UN).
  3. DROP ARROW POINTS TOWARDS LOW END OF MEMBER.
  4. ENDS OF GIRDERS AND BRG. STIFF'S ARE VERTICAL AFTER DL ROTATION.
  5. DIAPH. STIFF, INT STIFF ARE NORMAL TO GRADE.
  6. BOTTS PT NUMBERS = TOP PT NUMBERS + 300.
  7. FOR LAYOUTS SEE "ID" SHEETS.
  8. DIAPHRAGM DROPS ARE CALCULATED IN THEIR FINAL POSITION.
  9. COMBINE DIAPHRAGM CONN'S FOR DIFFERENCES IN DROPS OF ± 1/8.

GRADES		
Line	Abut 1	Abut 2
1	0.0278	0.0187
2	0.0277	0.0187
3	0.0277	0.0187
4	0.0277	0.0186
5	0.0277	0.0186
6	0.0276	0.0185
7	0.0276	0.0185
8	0.0275	0.0185
9	0.0275	0.0185
10	0.0275	0.0184
11	0.0275	0.0184
12	0.0274	0.0183

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**  
40 IDX Drive  
Building 100, Suite 200  
South Burlington, VT 05403  
802.497.6100

Job Number: BRF 025-1(42)

Reviewed By: E.F. LAWES

Date: April 11, 2017

A	03/08 2017	APPROVAL COMMENTS	RTD	PCP	
D	01/04 2017	ADD NEW DIAPHRAGMS (EXTRA-TEC-3423-001)	RTD	PCP	
REV.	DATE	REMARKS	DWN	CHK	APVL    SHOP
MATERIAL:		SURFACE PREP. & PRINT:	HOLES:		SHOP BOLTS:
			AS NOTED		AS NOTED
<b>DESCRIPTION:                      CALCULATION PLAN</b>					
		<b>CASCO BAY STEEL STRUCTURES, INC.</b> 1 WALLACE AVE.                      PHONE (207) 780-6722 SOUTH PORTLAND, ME 04106                      FAX. (207) 780-6726			
STRUCTURE:	VT RTE 103 (MAIN STREET) OVER BLACK RIVER BRIDGE NO. 25			DRAWN:	DATE:
	ROUTE T.H.1 (VT 103) CLASS 1 F.R.S. 025-1			CHKD:	DATE:
				WL	11/10/16
LOCATION:	TOWN OF LUDLOW, WINDSOR COUNTY, VT			JOB NO.	DWG NO.
PROJ NO.	BRF 025-1(42)			<b>684</b>	<b>WS1</b>
CUSTOMER:	COLD RIVER BRIDGES, LLC.			REV.	A

PC: 1000, Rev. 13, 03/01, 2014, 08 PM, /s/mtf/1000/03/01/08/01, 1000