

125 STRUCTURAL
STEEL

GENERAL NOTES

CONSTRUCTION SPECIFICATIONS

- 1). ALL MATERIAL AND WORKMANSHIP TO BE IN ACCORDANCE WITH THE STATE OF VERMONT AGENCY OF TRANSPORTATION STANDARD SPECIFICATIONS FOR CONSTRUCTION DATED 2006 WITH LATEST REVISIONS AND THE AASHTO LRFD BRIDGE DESIGN SPECIFICATIONS FOR HIGHWAY BRIDGES 4TH EDITION, DATED 2008 AND ITS LATEST REVISIONS.

MATERIAL SPECIFICATIONS

- 1). UNLESS OTHERWISE NOTED, ALL STEEL TO BE AASHTO M270 GRADE 50 AND SHALL BE GALVANIZED PER SUBSECTION 506.15.
- 2). MATERIAL NOTED "T2" OR CVN ON DETAIL DRAWINGS SHALL BE CHARPY V-NOTCH TESTED IN ACCORDANCE WITH THE REQUIREMENTS OF VERMONT STANDARD SPECIFICATIONS SECTION 714.01.
- 3). MATERIAL NOTED "F2" OR FCM (FRACTURE CRITICAL MEMBERS) ON DETAIL DRAWINGS SHALL MEET THE FOLLOWING CONSTRUCTION AND TESTING REQUIREMENTS:
- A. ALL FRACTURE CRITICAL MEMBERS SHALL BE FABRICATED ACCORDING TO SECTION 12 OF THE AASHTO/AWS D1.5 BRIDGE WELDING CODE.
- B. ALL FRACTURE CRITICAL MEMBERS SHALL BE FABRICATED IN A PLANT HAVING AN AISC FRACTURE CRITICAL ENDORSMENT OR THE FABRICATOR SHALL PROVIDE TO THE STRUCTURES ENGINEER AN ACCEPTABLE FRACTURE CONTROL PLAN MEETING THE REQUIREMENTS OF AASHTO/AWS D1.5, PRIOR TO FABRICATION.
- C. ALL FRACTURE CRITICAL MEMBERS SHALL BE IMPACT TESTED TO THE FRACTURE CRITICAL REQUIREMENTS AS SPECIFIED IN AASHTO M270.
- 4). HIGH STRENGTH BOLTS: ASTM A325 TYPE 1 GALVANIZED PER SECTION 506 (UN). NUTS SHALL BE A563 GRADE DH GALVANIZED. BOLTS & NUTS SHALL BE ROTATIONAL CAPACITY TESTED. DO NOT MIX NUTS & BOLTS FROM DIFFERENT CONTAINERS UNLESS ALL BOLTS & NUTS HAVE THE SAME LOT NUMBER.
- 5). ALL STRUCTURAL CONNECTIONS INCORPORATING THE BEVELED SIDE OF A STANDARD BEAM, CHANNEL OR ANGLE SHALL USE THE CORRESPONDING GALVANIZED ASTM F436 BEVELED WASHERS.

FABRICATION

- 1). ALL HOLES SHALL BE DRILLED FULL SIZE (UN).

WELDING

- 1). ALL WELDING SHALL CONFORM TO THE PROVISIONS OF SUBSECTION 506.10.
- 2). NON DESTRUCTIVE TESTING OF WELDS SHALL BE IN ACCORDANCE WITH THE REFERENCED SPECIFICATION.
- 3). SEE DETAIL "WS1" ON THIS DRAWING FOR WELD TERMINATION DETAIL.

CLEANING

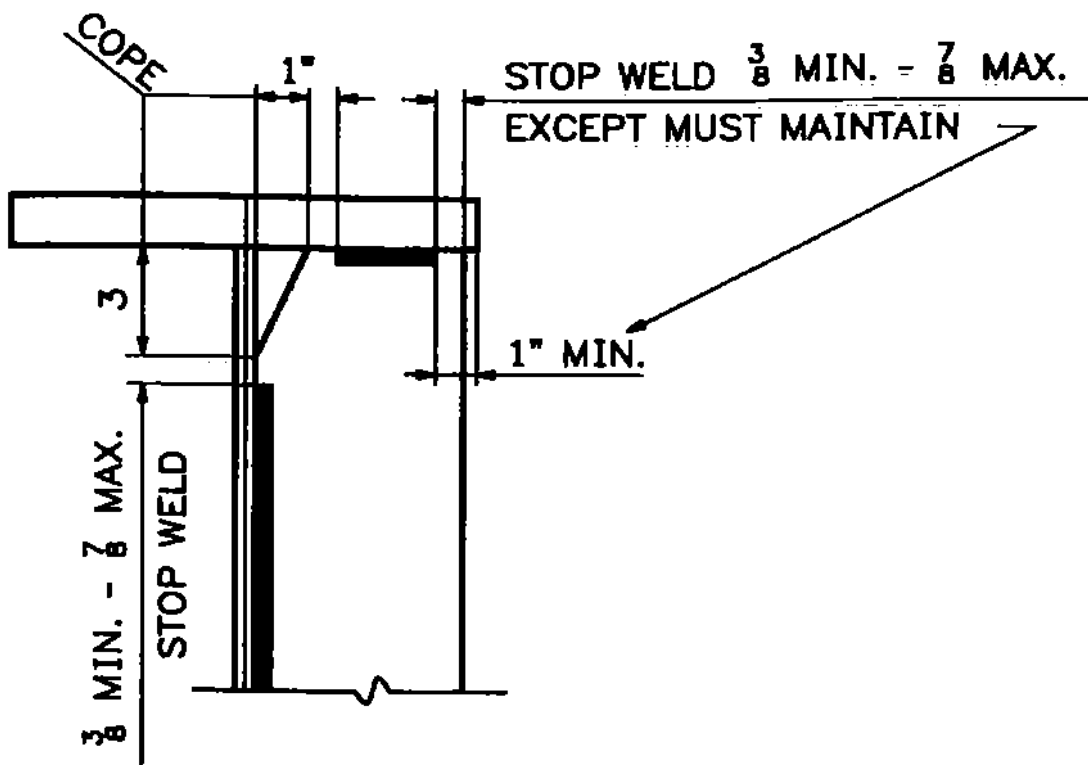
1. ALL STEEL TO BE GALVANIZED SHALL BE CLEANED AND PICKLED IN ACCORDANCE WITH SSPC SSPC-SP8, UNLESS OTHERWISE APPROVED BY THE ENGINEER.

PAINTING

1. ALL STEEL SHALL BE HOT DIP GALVANIZED IN ACCORDANCE WITH SUBSECTION 506.15.
2. ALL FAYING SURFACES SHALL BE EITHER GALVANIZED TO MEET THE CLASS C SLIP COEFFICIENT VALUE OF NOT LESS THAN 0.33 AS SPECIFIED BY AASHTO OR COATED WITH AN INORGANIC ZINC RICH PRIMER TO MEET THE CLASS B SLIP COEFFICIENT VALUE OF NOT LESS THAN 0.50 AS SPECIFIED BY AASHTO.
3. THE FLOOR SYSTEM, INCLUDING THE FLOORBEAMS, STRINGERS AND LATERAL BRACING DIAGONALS SHALL NOT BE PAINTED. ALL OTHER STEEL SHALL BE PAINTED AS PER DRAWING P1.

FIELD CONNECTIONS

- 1). ALL FIELD CONNECTIONS SHALL BE MADE WITH 7/8" DIAMETER OR 3/4" DIAMETER HIGH STRENGTH A325 TYPE 1 GALVANIZED BOLTS (UN), INSTALLED PER SECTION 506.19(c).
- 2). BOLTS SHALL HAVE HEAVY HEX NUT, HEAVY HEX HEAD, AND AT LEAST ONE FLAT WASHER EACH. WASHER TO BE PLACED UNDER TURNED ELEMENT.
- 3). PIECE MARKS WILL BE LOCATED AS SHOWN ON ERECTION DRAWINGS.



DETAIL "WS1"
(TYPICAL FILLET WELD TERMINATION DETAIL)

Vermont Agency of Transportation
RECEIVED
CK'D BY TCF OK'D BY SSS
7:43 am, Apr 12, 2011
RESUBMIT APPROVED X
BY KMH DATE 4-12-11

NOTE TO ENGINEER:
THESE NOTES ARE NOT INTENDED TO BE ALL INCLUSIVE AND COMPLIANCE WITH RELEVANT SPECIFICATIONS REMAIN UNCHANGED.

03/25/11	REVISED & DELETED PAINT NOTES	JM	PWR		
02/28/11	REVISED AS PER APPROVAL COMMENTS	JM	PWR		
0					
REV.	DATE	REMARKS	DWN	CHK	APVL
MATERIAL:		SURFACE PREP. & PAINT:	HOLES:		SHOP BOLTS:
DESCRIPTION: GENERAL NOTES					
CASCO BAY STEEL STRUCTURES, INC.					
75 SPRING HILL ROAD SACO, MAINE 04072					
PHONE (207) 282-7360 FAX. (207) 282-1179					
STRUCTURE: Vermont Route 100A		DRAWN: RB		DATE: 9/18/10	
Bridge No. 14		CHKD: WJL		DATE: 10/20/10	
Bridgewater					
County of Windsor					
LOCATION: BRIDGEWATER, VERMONT		JOB NO. 454		DWG NO. GN1	
PROJ NO. BRS 0149(4)				REV. 1	
CUSTOMER: VT AOT					