METRIC

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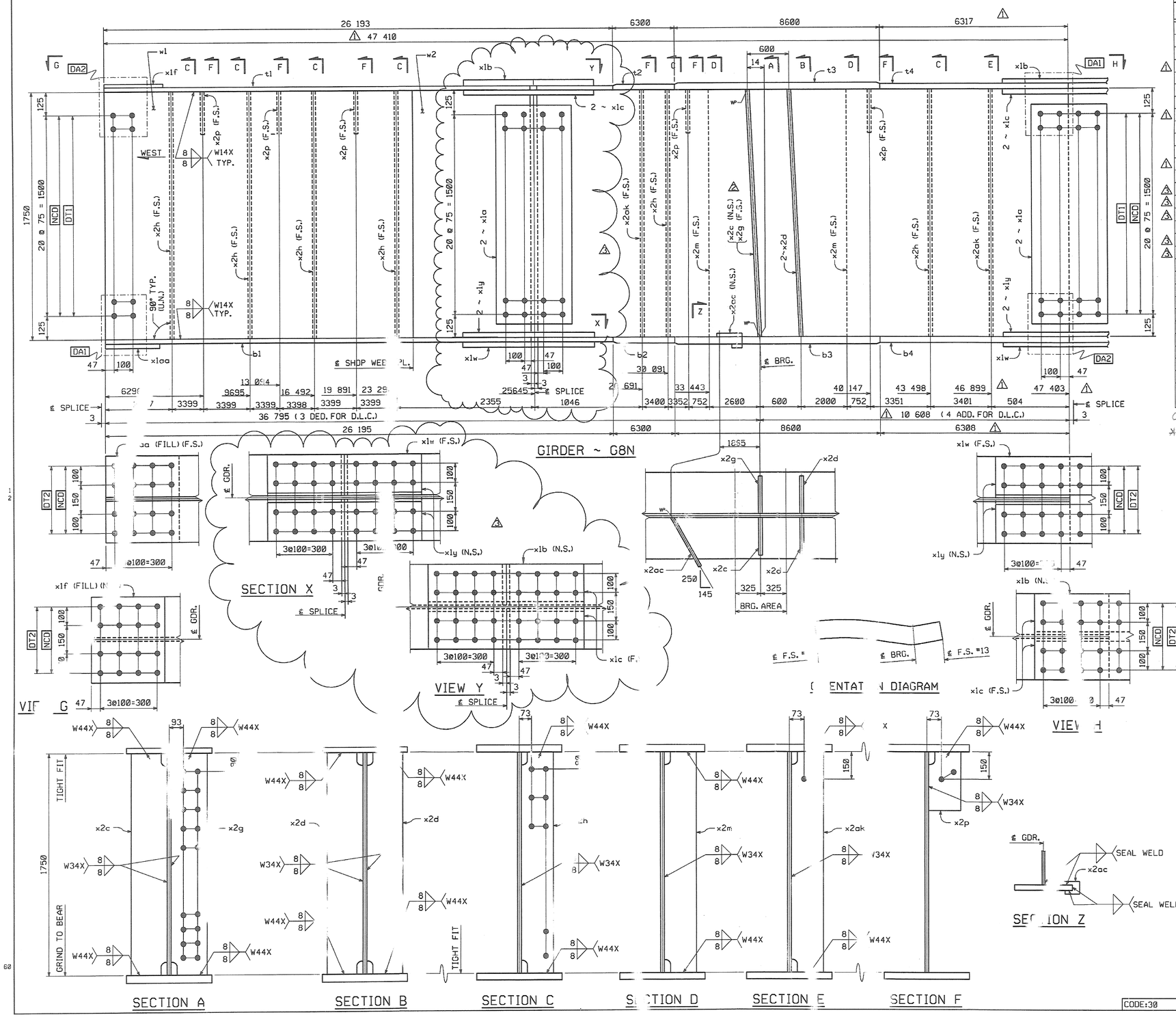
1. ALL DIMENSIONS ARE IN MILLIMETERS UNLESS OTHERWISE NOTED.
2. ALL WEIGHTS ARE IN KILOGRAMS.

| FED. ROAD DIV. NO. | STATE | FED. AID PROJ. NO. |
|---|---|---|
| | VT | |




## BILL OF MATERIAL

| NO. | MARK | DESCRIPTION | LENGTH | REMARKS | GRP. | ITEM | SHIP. WT. KG. EA. |
|---|---|---|---|---|---|---|---|
| ONE | G8N | GIRDER | | | | | 22 630 |
| | | | | | | | |
| ~~1~~ | w1 | PL 16 x ~~1750~~ | ~~23.808~~ | (T) | 3 | 4 | ~~5232.40~~ |
| 1 | w2 | PL 16 x 1750 | ~~23.808~~ | (T) 47 400 ① | 3 | 7 | ~~5188.66~~ |
| 1 | t1 | PL 22 x 450 | 26 193 | (T) 26187 ① | 4 | 20 | ~~2035.36~~ |
| 1 | t2 | PL 32 x 450 | 6 300 | (T) | 4 | 15 | ~~712.07~~ |
| 1 | t3 | PL 65 x 450 | 8 600 | (T) | 4 | 3 | ~~1974.44~~ |
| 1 | t4 | PL 32 x 450 | 6 317 | (T) | 4 | 14 | ~~713.99~~ |
| 1 | b1 | PL 22 x 450 | 26 195 | (T) 26189 ① | 4 | 20 | ~~2035.51~~ |
| 1 | b2 | PL 32 x 450 | 6 300 | (T) | 4 | 15 | ~~712.07~~ |
| 1 | b3 | PL 65 x 450 | 8 600 | (T) | 4 | 3 | ~~1974.44~~ |
| 1 | b4 | PL 32 x 450 | 6 308 | (T) | 4 | 14 | ~~712.97~~ |
| | | | | | | | |
| 4 | x1a | PL 12 x 1600 | 400 | (T) | 6 | 1 | ~~60.28~~ |
| 2 | x1b | PL 14 x 450 | 790 | (T) | 6 | 6 | ~~39.06~~ |
| 4 | x1c | PL 16 x 200 | 790 | (T) | 6 | 5 | ~~19.84~~ |
| 1 | x1f | PL 10 x 450 | 392 | FILL | 6 | 7 | 13.85 |
| 2 | x1w | PL 14 x 450 | 790 | (T) | 6 | 6 | ~~39.06~~ |
| 4 | x1y | PL 16 x 200 | 790 | (T) | 6 | 5 | ~~19.84~~ |
| 1 | x1aa | PL 10 x 450 | 392 | FILL | 6 | 7 | 13.85 |
| 1 | x2c | PL 38 x 200 | 1 750 | | 7 | 1 | ~~104.39~~ |
| 2 | x2d | PL 38 x 200 | 1 750 | | 7 | 1 | ~~104.39~~ |
| 1 | x2g | PL 38 x 200 | 1 750 | | 7 | 1 | ~~104.39~~ |
| 6 | x2h | PL 12 x 180 | 1 750 | | 7 | 4 | ~~29.67~~ |
| 2 | x2m | PL 12 x 180 | 1 750 | | 7 | 4 | ~~29.67~~ |
| 5 | x2p | PL 14 x 180 | 310 | | 7 | 3 | ~~6.13~~ |
| 1 | x2ac | PL 6 x 115 | 301 | *Vol=.79650 m³ | 7 | 5 | ~~1.63~~ |
| 2 | x2ak | PL 12 x 180 | 1 750 | | 7 | 4 | ~~29.67~~ |
| | | | | | | | |
| TOTAL WEIGHT THIS SHEET: | | | ~~22 622.29~~ | kgs | | | |

① 6mm Subtracted for Field Splice
* See Sheet 9 of 112

22 679.34 kg JMR 8-3-06

| NO. | MARK | SHIP. WT. KG. EA. |
|---|---|---|
| 1 | w2 | 10418.63 |
| 1 | t1 | 2035.12 |
| 1 | t2 | 712.15 |
| 1 | t3 | 1974.67 |
| 1 | t4 | 713.07 |
| 1 | b1 | 2035.51 |
| 1 | b2 | 712.15 |
| 1 | b3 | 1974.67 |
| 1 | b4 | 713.06 |
| 4 | x1a | 241.15 |
| 2 | x1b | 78.14 |
| 4 | x1c | 79.38 |
| 2 | x1w | 78.14 |
| 4 | x1y | 79.38 |
| 1 | x2c | 104.41 |
| 2 | x2d | 208.81 |
| 1 | x2g | 104.41 |
| 6 | x2h | 178.04 |
| 2 | x2m | 59.35 |
| 5 | x2p | 30.66 |
| 1 | x2ac | 0.62 |
| 2 | x2ak | 59.35 |

## 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. Engineers, Planners, and Scientists, Six Bedford Farms, Kitton Rd, Bedford, NH 03110 603 644 0888

Job Number: 5521
Reviewed By: SAM
Date: 10/25/05

## SHOP NOTE

**HOLES:** 15/16"ø
**BOLTS:** NONE
**PAINT:** NONE
FOR GENERAL SHOP NOTES, SEE DWG. GN1.
FOR WEB CAMBER DIAGRAM, SEE DWG. WC3.

| NO. | REVISION | BY | DATE |
|---|---|---|---|
| 3 | ADDED FIELD SPLICE | DRJ | 8/5/05 |
| 2 | REVISED MARK x2 ~ (N.S.) | CS | 11-11-04 |
| 1 | INCREASE LENGTHS TO SATISFY REQUIREMENTS FOR LENGTH @ MEAN TEMPERATURE OF 35°F. | JSA | 9/17/04 |

HIGH STEEL STRUCTURES, INC.
1770 Hempstead Road, Lancaster, PA 17605-0008, Phone 717/299-5211
A Division of High Industries, Inc.

GIRDER G8N
VT 78 OVER MISSISQUOI BAY, BRIDGE NO. 2
VT 78 STA.10+970.425 TO STA.12+059.775
TOWNS OF ALBURG AND SWANTON
COUNTIES OF GRAND ISLE AND FRANKLIN
STATE OF VERMONT, AGENCY OF TRANSPORTATION

STATE CONTRACT OR REF. NO. BRF-036-1(1)
CONTRACTOR CIANBRO CORPORATION
IN CHARGE: GLIDDEN (IH) MADE BY: ERS CHK'D. BY: CS DATE: 8-23-04
CONTRACT NUMBER VT-04057-2 DRAWING NUMBER: 56 OF 112

CODE:30

PLOTTED: 8/11/05 10:29:18 AM BY: kglidden

04057 X6 8/11/05 8/Resubmit For Approval TO:Cianbro Corporation