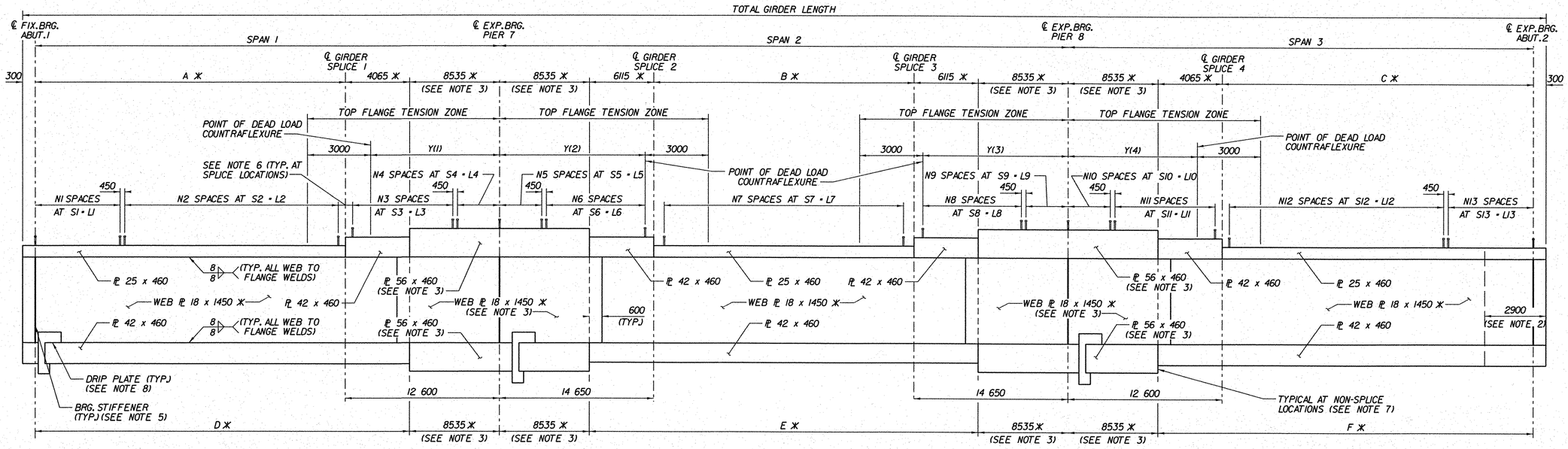

✱ MEMBERS INDICATED SHALL BE CHARPY V-NOTCH TESTED IN ACCORDANCE WITH SECTION 714.01 OF THE SPECIFICATIONS.

GIRDER ELEVATION

NOT TO SCALE

SHEAR STUD TABLE

	STUD LOCATION 1			STUD LOCATION 2			STUD LOCATION 3			STUD LOCATION 4			STUD LOCATION 5			STUD LOCATION 6			STUD LOCATION 7			STUD LOCATION 8			STUD LOCATION 9			STUD LOCATION 10			STUD LOCATION 11			STUD LOCATION 12			STUD LOCATION 13			
GIRDER	SPACES N1	SPACING (mm) S1	LENGTH (m) L1	SPACES N2	SPACING (mm) S2	LENGTH (m) L2	SPACES N3	SPACING (mm) S3	LENGTH (m) L3	SPACES N4	SPACING (mm) S4	LENGTH (m) L4	SPACES N5	SPACING (mm) S5	LENGTH (m) L5	SPACES N6	SPACING (mm) S6	LENGTH (m) L6	SPACES N7	SPACING (mm) S7	LENGTH (m) L7	SPACES N8	SPACING (mm) S8	LENGTH (m) L8	SPACES N9	SPACING (mm) S9	LENGTH (m) L9	SPACES N10	SPACING (mm) S10	LENGTH (m) L10	SPACES N11	SPACING (mm) S11	LENGTH (m) L11	SPACES N12	SPACING (mm) S12	LENGTH (m) L12	SPACES N13	SPACING (mm) S13	LENGTH (m) L13	TOTAL STUDS
G1	25	350	8.75	50	450	22.50	5	450	2.25	26	350	9.10	31	350	10.85	5	450	2.25	51	450	22.95	5	450	2.25	31	350	10.85	26	350	9.10	5	450	2.25	50	450	22.50	25	350	8.75	1038
G2	25	350	8.75	50	450	22.50	5	450	2.25	26	350	9.10	31	350	10.85	5	450	2.25	51	450	22.95	5	450	2.25	31	350	10.85	26	350	9.10	5	450	2.25	50	450	22.50	25	350	8.75	1038
G3	25	350	8.75	50	450	22.50	5	450	2.25	26	350	9.10	31	350	10.85	5	450	2.25	51	450	22.95	5	450	2.25	31	350	10.85	26	350	9.10	5	450	2.25	50	450	22.50	25	350	8.75	1038
G4	25	350	8.75	50	450	22.50	5	450	2.25	26	350	9.10	31	350	10.85	5	450	2.25	51	450	22.95	5	450	2.25	31	350	10.85	26	350	9.10	5	450	2.25	50	450	22.50	25	350	8.75	1038

GIRDER SCHEDULE

	POINT OF DEAD LOAD CONTRAFLEXURE (m)			
GIRDER	Y(1)	Y(2)	Y(3)	Y(4)
G1	12.280	13.640	13.633	12.307
G2	12.258	13.682	13.680	12.290
G3	12.227	13.733	13.718	12.262
G4	12.215	13.805	13.783	12.257

GIRDER SCHEDULE

	TOP FLANGE (m)			BOTTOM FLANGE (m)		
GIRDER	A	B	C	D	E	F
G1	32.420	24.633	32.449	36.485	36.863	36.514
G2	32.418	24.632	32.446	36.483	36.862	36.511
G3	32.417	24.631	32.444	36.482	36.861	36.509
G4	32.415	24.628	32.442	36.481	36.858	36.505

SPAN LENGTHS (m)

GIRDER	CURVE RADII	SPAN 1	SPAN 2	SPAN 3	TOTAL
G1	2123.525	45.020	53.933	45.049	144.602
G2	2125.975	45.018	53.932	45.046	144.596
G3	2128.425	45.017	53.931	45.044	144.592
G4	2130.875	45.015	53.928	45.042	144.585

NOTES:

1. FOR FIELD SPLICE DETAILS, SEE SPLICE DETAILS (RAMPS A AND D), BRIDGE SHEET BR268.
2. ALL STRUCTURAL STEEL WITHIN 2.90 m OF END OF THE GIRDER AT EXPANSION ENDS SHALL BE COATED WITH A PROTECTIVE PAINT SYSTEM, WITH THE FINAL COAT TO BE A DARK BROWN (COLOR CHIP #20059) TO BLEND WITH THE WEATHERING STEEL. AFTER THE FINAL COAT OF PAINT HAS CURED, A COAT OF GREASE RUSTPROOFING COMPOUND SHALL BE APPLIED TO ALL PAINTED SURFACES CONFORMING TO SECTION 513 OF THE SPECIFICATIONS. THE COST OF PAINT AND GREASE RUSTPROOFING SHALL BE PAID FOR UNDER ITEM 513.25. "STRUCTURAL PAINTING, SHOP APPLIED".
3. GIRDER FLANGES AND WEBS OVER PIER LOCATIONS SHALL BE AASHTO M270M/M270, GR485W STEEL.
4. UNLESS OTHERWISE NOTED, ALL STEEL IS AASHTO M270M/M270, GR345W.
5. FOR BEARING STIFFENER AND CONNECTION PLATE DETAILS, SEE STEEL DETAILS (SHEET 1 OF 2) (RAMPS A AND D), BRIDGE SHEET BR269.
6. NO STUDS SHALL BE INSTALLED ON OR WITHIN 75 OF GIRDER SPLICE PLATES.
7. FOR FLANGE TRANSITION DETAILS, SEE STEEL DETAILS (SHEET 1 OF 2) (RAMPS A AND D), BRIDGE SHEET BR269.
8. FOR DRIP PLATE DETAILS, SEE STEEL DETAILS (SHEET 1 OF 2) (RAMPS A AND D), BRIDGE SHEET BR269.

TVGA CONSULTANTS

STATE OF VERMONT
AGENCY OF TRANSPORTATION

Town Of BENNINGTON	Bridge No. BI5S
Highway No. VT RTE 279	Log Sta. / Surv. Sta.

VT ROUTE 279 & RAMPS OVER ROARING BRANCH OF WALLOOMSAC RIVER

GIRDER ELEVATION (RAMP A)

Designed By J.J. MANUSE	Drawn By L.R. DELL
Checked By B.J. CARLSON Date 05/08	Bridge Design Supervisor K.M. WOJTKOWSKI Date 05/08
PROJECT BENNINGTON	PROJECT NO. AC NH 019-1(51)
TVGA CAD Drawing No. RmpAGrd.dgn	Date 02/02/2009
Bridge Sheet No. BR266	Sheet 253 of 367