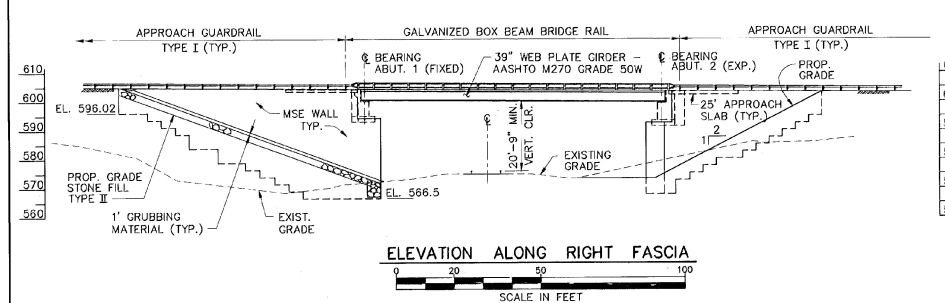
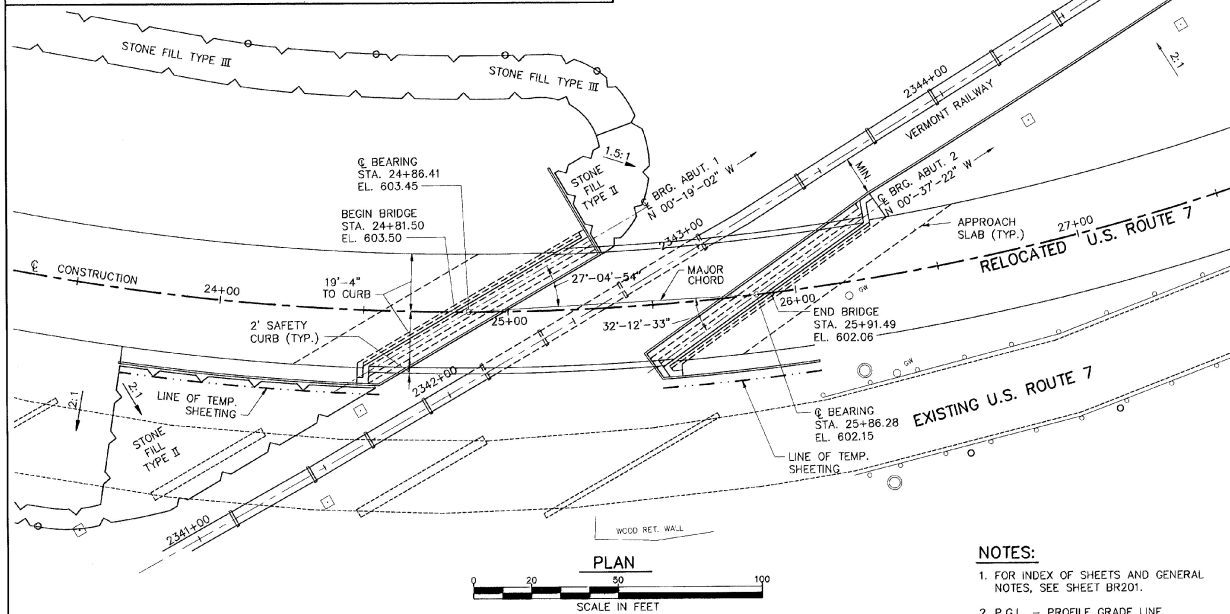


U.S. ROUTE 7 C CONST.	VERTICAL CURVE DATA
$\Delta = 88^{\circ}-20'-32''$	PVI STA. 24+75
$D = 6^{\circ}-45'-00''$	EL. 613.20
$R = 848.83'$	G1 = +3.2000%
$T = 578.24'$	G2 = -4.8000%
$L = 1012.48'$	L = 665.00
$E = 177.11'$	K = 120.625
	E = 9.65 FT.



EXISTING STRUCTURE

1. STRUCTURE TYPE	3-SPAN STEEL STRINGER	OVERALL LENGTH	240'	INVENTORY RATING	
2. SPAN LENGTH(S) CENTER TO CENTER OF BEARINGS		74'-78'-80'	(APPROXIMATE)		
3. CLEAR SPAN LENGTH(S) NORMAL TO RAILROAD		N/A			
4. WATERWAY AREA OF FULL OPENING (NORMAL TO STREAM)		N/A		VERTICAL CLEARANCE ABOVE STREAMBED	N/A
5. WATER SURFACE ELEVATION @ Q 2.33		N/A		YEAR	
6. WATER SURFACE ELEVATION AT FLOOD OF RECORD		N/A		ESTIMATED DISCHARGE	
7. DOES ALL WATER PASS THROUGH EXISTING STRUCTURE?		N/A		IF NOT, AT WHAT FREQUENCY AND ELEVATION DOES RELIEF OCCUR?	
8. TYPE OF SUBSTRUCTURE FOUNDATION MATERIAL		UNKNOWN			
9. DISPOSITION OF STRUCTURE		REMOVE EXISTING STRUCTURE ITEM 522.15			

NEW STRUCTURE

1. STRUCTURE TYPE	SINGLE SPAN WELDED PLATE GIRDER	OVERALL LENGTH	110' @ CONST.
2. SPAN LENGTH(S) CENTER TO CENTER OF BEARINGS		20'-7'	
3. VERTICAL CLEARANCE ABOVE RAILROAD UNDER		N/A	
4. CLEAR SPAN LENGTH(S) NORMAL TO RAILROAD		N/A	
5. WATERWAY AREA OF FULL OPENING (NORMAL TO STREAM)		N/A	
6. ARE PROVISIONS TO BE MADE FOR PUBLIC UTILITIES?		N/A	

ALLOWABLE STRESSES:

1. DESIGN LINE LOAD AASHTO	HS-20		
2. ALLOWABLE LOAD FOR SPREAD FOOTINGS ON SOIL	N/A	ON LEDGE	N/A
3. ALLOWABLE LOAD FOR PILING	N/A	TYPE	N/A
4. ALLOWABLE STRESS FOR STRUCTURAL STEEL AASHTO M270 GR 50W		ESTIMATED LENGTH	N/A
		TENSION	27,000 PSI
5. ALLOWABLE STRESS FOR REINFORCING STEEL GRADE 60 TENSION		28,000 PSI	COMPRESSION
		f_c	1,800 PSI
6. ALLOWABLE STRESS FOR CONCRETE CLASS A		f_c	3,000 PSI
		CLASS B	f_c
		CLASS C	f_c
		SILICA FUME CONCRETE	f_c
			2,000 PSI

TRAFFIC MAINTENANCE:

1. IS TRAFFIC TO BE MAINTAINED?	YES	IF YES, ON EXISTING STRUCTURE	YES	OR ON TEMPORARY BRIDGE	NO
2. TEMPORARY BRIDGE REQUIREMENTS: ONE OR TWO WAY	N/A	MINIMUM CLEAR HEIGHT		TRAFFIC CONTROL SIGNALS REQUIRED	N/A
		ARE SIDEWALKS REQUIRED?		MINIMUM WATERWAY AREA	

ADDITIONAL DESIGN CONSIDERATIONS

- NOTES:**
- FOR INDEX OF SHEETS AND GENERAL NOTES, SEE SHEET BR201.
 - P.G.L. - PROFILE GRADE LINE.

STRESS LEVELS	LOAD RATING (TONS)							
	H	HS	SS	4 AXLE	SA STR.	AA STR.	SA STR.	SEM
INVENTORY 0.55 Fy = 27	30	45						
POSTED 0.67 Fy = 33	46	68	77		83	64	72	
OPERATING 0.75 Fy = 37		83	95	108	77	79		

REVISIONS

NO.	DESCRIPTION	BY & DATE

**STATE OF VERMONT
AGENCY OF TRANSPORTATION**

Town Of **WALLINGFORD** Bridge No. **80**

Highway No. **U.S. ROUTE 7** Log Sta.
Surv. Sta.

U.S. ROUTE 7 OVER RAILROAD

PRELIMINARY INFORMATION

Designed By **GRI** Drawn By **R.L./SAM**

Checked By **EMM** 4/95 Bridge Design Supervisor **EMM** Date **4/95**

PROJECT **WALLINGFORD** PROJECT NO. **BRS 0137 (13)**

I.G.C. Info.

Bridge Sheet No. **BR200** Sheet **60** of **113**

B-J BARNES AND JARNIS, INC.
CONSULTING ENGINEERS
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BOSTON, MASSACHUSETTS