

**SPECIFICATIONS:** ALL MATERIALS AND CONSTRUCTION SHALL CONFORM TO THE STATE OF VERMONT, DEPARTMENT OF HIGHWAYS, STANDARD SPECIFICATIONS FOR HIGHWAY AND BRIDGE CONSTRUCTION DATED JANUARY 1956, AND THE A.A.S.H.O. STANDARD SPECIFICATIONS FOR HIGHWAY BRIDGES DATED 1961 TOGETHER WITH THE LATEST REVISIONS. WELDING SHALL CONFORM TO SPECIFICATIONS FOR WELDED HIGHWAY AND RAILWAY BRIDGES OF THE AMERICAN WELDING SOCIETY, AWS D2.0-63.

DESIGN IS FOR HS20-44 LOADING MODIFIED FOR THE NATIONAL SYSTEM OF INTERSTATE HIGHWAYS, APPLIED IN ACCORDANCE WITH THE PROVISIONS OF THE A.A.S.H.O. STANDARD SPECIFICATIONS, ARTICLE 1.2.6.

**STRUCTURAL STEEL:** UNLESS OTHERWISE NOTED ON THE PLANS, ALL STRUCTURAL STEEL SHALL CONFORM WITH A.S.T.M. DESIGNATION A-36-62T.

UNLESS OTHERWISE DETAILED, ALL FIELD CONNECTIONS SHALL BE MADE WITH 7/8" HIGH STRENGTH BOLTS (A325) USING 15/16" HOLES. WHERE CONNECTIONS ARE NOT DETAILED ON THE PLANS, THEY SHALL BE DETAILED BY THE FABRICATOR AND SUBMITTED TO THE STATE FOR APPROVAL.

DETAILS OF SHEAR CONNECTORS SHALL BE SUBMITTED TO THE STATE FOR APPROVAL. THE CAMBER SHALL APPROXIMATE A SIMPLE CIRCULAR CURVE FROM END TO END OF PLATE GIRDER. AFTER THE STRUCTURAL STEEL HAS BEEN ERECTED, ELEVATIONS ON THE TOP OF THE PLATE GIRDERS SHALL BE TAKEN UNDER THE DIRECTION OF THE ENGINEER TO DETERMINE THE FINAL GRADE.

NO SCUPPERS ARE REQUIRED.

**PAINT:** THE FINAL COAT OF FIELD PAINT SHALL BE DARK GREEN, UNLESS OTHERWISE DIRECTED BY THE ENGINEER.

**CONCRETE:** ALL CONCRETE IN THE SUPERSTRUCTURE SHALL BE CLASS AA (MOD.) AND ALL CONCRETE IN THE SUBSTRUCTURES AND APPROACH SLABS SHALL BE CLASS B (MOD.).

ALL EXPOSED EDGES OF CONCRETE SHALL BE CHAMFERED 1" X 1".

CONSTRUCTION JOINTS SHALL BE AS INDICATED ON THE STANDARDS UNLESS OTHERWISE INDICATED ON THE PLANS.

**REINFORCING STEEL:** THE SLAB REINFORCING (SSOI BARS) SHALL BE CUT IN THE FIELD TO FIT THE SKEWED END, THE CUT-OFF BARS SHALL BE USED AT THE OPPOSITE END OF THE SPAN.

MINIMUM COVER FOR REINFORCING STEEL, MEASURED FROM THE SURFACE OF THE REINFORCEMENT, SHALL BE 2" UNLESS OTHERWISE SPECIFIED.

**PILES:** STEEL PILES SHALL BE DRIVEN TO REFUSAL UNLESS OTHERWISE DIRECTED BY THE ENGINEER. WHERE PILES ARE DRIVEN IN FILL, THE MATERIAL SHOULD BE SUCH AS TO HAVE NO STONES LARGE ENOUGH TO INTERFERE WITH THE DRIVING OF PILES.

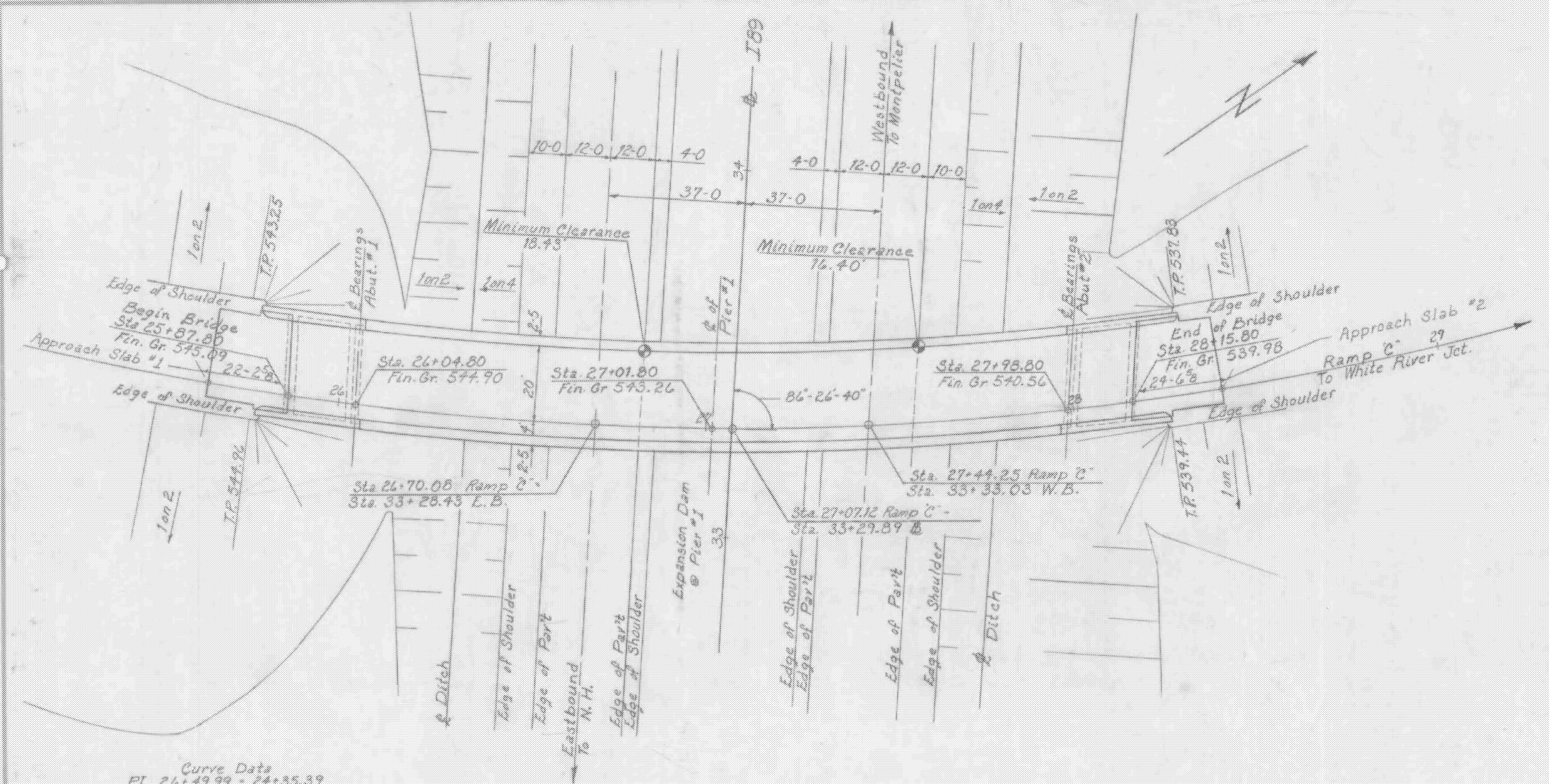
**GENERAL:** ALL DIMENSIONS GIVEN ARE AT 68°F. AND ARE MEASURED HORIZONTALLY OR VERTICALLY UNLESS OTHERWISE NOTED.

BORINGS INDICATED ON THE DRAWINGS HAVE BEEN MADE FOR DESIGN PURPOSES ONLY AND ARE NOT WARRANTED TO SHOW ACTUAL SUB-SURFACE CONDITIONS.

THE ENTIRE EXPOSED TOP SURFACE OF THE ABUTMENT BRIDGE SEATS AND PIER SHALL BE COATED WITH ITEM 407, ASPHALTIC-ASBESTOS COATING 1/2" THICK. THIS ITEM SHALL BE APPLIED AFTER ALL PAINTING AND INCIDENTAL ITEMS ARE COMPLETED.

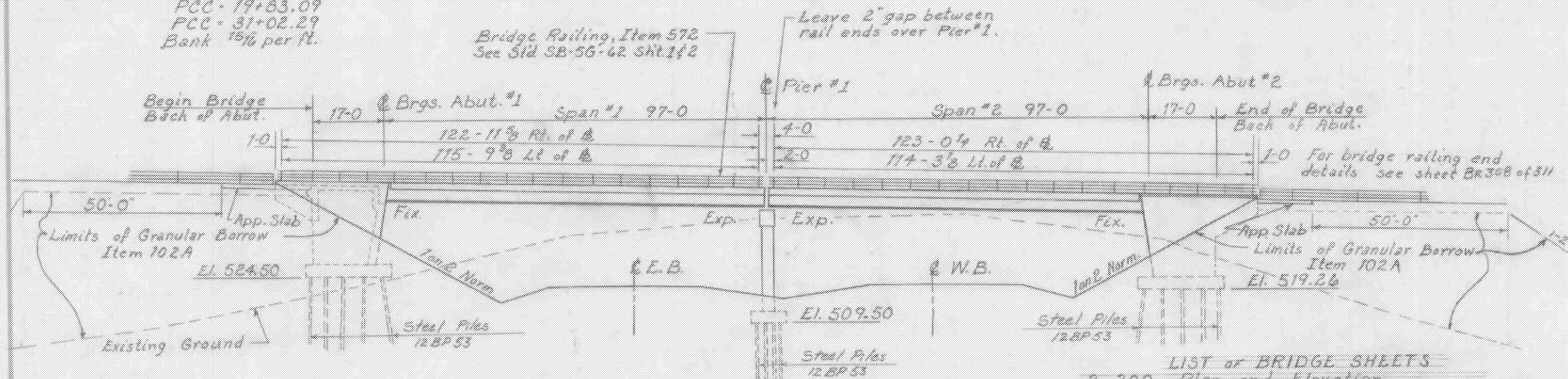
UNLESS OTHERWISE DESIGNATED, ALL EXPANSION MATERIAL SHALL NOT CONTAIN ASPHALT OR BITUMINOUS MATERIAL AND IT SHALL CONFORM WITH A.A.S.H.O. DESIGNATION: M153 TYPE II.

WHERE BITUMINOUS CONCRETE PAVEMENT IS CALLED FOR AS A WEARING SURFACE ON BRIDGE DECKS AND APPROACH SLABS IT SHALL BE A DENSE GRADED TOP COURSE MATERIAL, APPLIED IN ONE COURSE, ONE AND ONE-HALF INCHES (1 1/2") THICK.



**Curve Data**  
 PI 26+49.99 - 24+35.39  
 Δ = 78°-20'-39" Lt.  
 D = 7'  
 R = 818.51  
 T = 66.90  
 L = 1119.20  
 E = 237.29  
 PCC = 19+53.09  
 FCC = 31+02.29  
 Bank 10% per ft.

PLAN



ELEVATION

- LIST OF BRIDGE SHEETS**
- Br 300 Plan and Elevation
  - 301 Bridge Quantity Sheet
  - 302 Preliminary Information Sheet
  - 303 Boring Log
  - 304 Framing Plan and Typical Section
  - 305 Expansion Dam
  - 306 Abutment N°1
  - 307 Abutment N°2
  - 308 Abutment Details
  - 309 Pier N°1
  - 310 Approach Slabs N°1 & 2
  - 311 Reinforcing Schedule

SCB-D6-62 Details A,B,C, & F  
 SB-56-62 Sheets 1 & 2  
 G3a

\* Indicates Items on Stage II Construction

Superstructure Quantities				
ITEM NO.	ITEM	UNIT	NET	TOTAL FINAL
	CHAN. EXCAV. OF EARTH	C.Y.		
	CHAN. EXCAV. OF ROCK	C.Y.		
	UNCLASS. CHAN. EXCAV.	C.Y.		
	STRUCT. EXCAV.	C.Y.		
401-AA	CONC. CLASS AA (MOD.)	C.Y.	183	
	CONC. CLASS B (MOD.)	C.Y.		39,142
402	REINF. STEEL	LBS.		
	ASPHALTIC-ASB. COATING	S.Y.		
	TREATED TIMBER PILING	L.F.		
* 318	Tar Emulsion for Bridge Floors	Gal.	208	
* 341-B	Bit. Conc. Pav't Dense graded top	Tons	44	
* 372-A	Joint Sealer - Hot Poured	L.F.	51	
* 373	Rubber Joint Material	L.F.	79	
404-A	Structural Steel	LBS.		175,741
556-C	Granite Bridge Curb (Mod.)	L.F.	452	452
572	Bridge Railing	L.F.	488	488
403	Spiral Reinforcement (3710*)	T.S.	1	1

HARTFORD-SHARON  
 IM MEMB(15)  
 SHEET 19 OF 47  
 BRIDGE 41C  
 FOR REFERENCE ONLY

STATE OF VERMONT  
 DEPARTMENT OF HIGHWAYS

TOWN OF HARTFORD

ROUTE No. 191 STA. 27+02

Plan and Elevation  
 Ramp C over Interstate I89

SCALE 1" = 20'

SURVEYED BY  
 DRAWN BY R.P.G. CHECKED BY D.H.R.

PROJECT No. 191-1(25)

Br 300-4311 SHEET 19 OF 47 Sheet 19 of 47