

GENERAL NOTES

SPECIFICATIONS: All materials and construction shall conform to the State of Vermont, Department of Highways, Standard Specifications for Highway and Bridge Construction dated April 1964, and A.A.S.H.O. standard Specifications for Highway Bridges dated 1964 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 1.2.8.

STRUCTURAL STEEL: (See Design Stresses Below) 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. 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 required.

PAINT: The final coat of field paint shall be dark green, unless otherwise directed by the engineer.

CONCRETE: (See Design Stresses below) All concrete in the superstructure shall be Class "AA" and all concrete in the substructures and abutment slabs shall be Class "B".

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: (See Design Stresses below) The slab reinforcing (S501 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.

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 surfaces 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.

Water Repellent, Item 440, shall be applied to top of the safety walks on the fascia and back to the drip head under the slab, on the sides, ends and bottoms of pier cap, and on exposed areas of abutments not otherwise treated.

LIST OF BRIDGE SHEETS

- BR. 501 PLAN & ELEVATION
 - BR. 502 BRIDGE QUANTITY SHEET
 - BR. 503 PRELIMINARY INFORMATION
 - BR. 504 BORINGS
 - BR. 505 FRAMING PLAN & GIRDER DETAILS
 - BR. 506 SUPERSTRUCTURE DETAILS
 - BR. 507 ROCKER BEARINGS
 - BR. 508 ABUTMENT #1
 - BR. 509 ABUTMENT #2
 - BR. 510 ABUTMENT DETAILS
 - BR. 511 PIER DETAILS
 - BR. 512 REINFORCING SCHEDULE
- Standard Drawings: SB-R1-64 SHEETS 1 & 2, SB-R3-64, SB-D6-65 (A)

DESIGN STRESSES

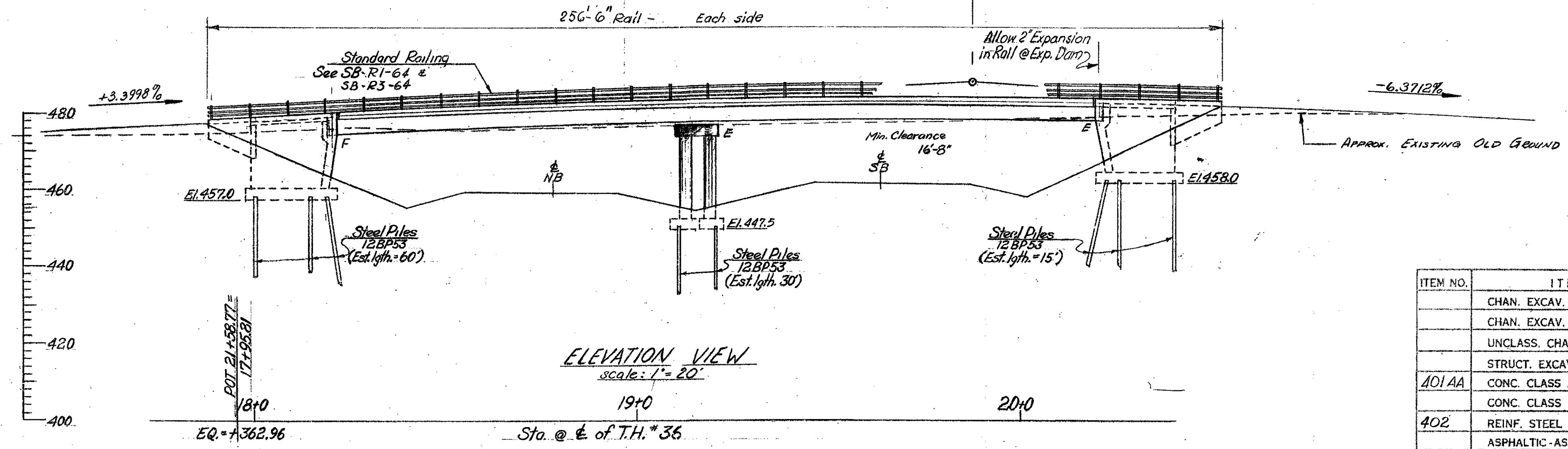
STRUCTURAL STEEL: A36-62T-20,000 PSI.
A441-63T-27,000 PSI. FOR 3/4" AND UNDER
24,000 PSI. FOR 3/4" TO 1 1/2"
22,000 PSI. FOR 1 1/2" TO 4"

CONCRETE: CLASS "AA" AND "B" $f'_c = 3,000$ PSI $f'_c = 1200$ PSI

REINFORCING STEEL: 20,000 PSI.

BOLTS: 13,500 PSI. SHEAR-FRICTION CONNECTIONS
20,900 PSI. SHEAR-BEARING CONNECTIONS

BR #10



THIS SHEET IS FOR INFORMATION PURPOSES ONLY
HARTFORD-SHARON-ROYALTON I-89 COR-1(C)

Stage 1 Construction

SUPERSTRUCTURE					
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.			
401AA	CONC CLASS AA	C. Y.	177		
	CONC CLASS B (MOD.)	C. Y.			
402	REINF. STEEL	LBS.	40,175		
	ASPHALTIC-ASB. COATING	S. Y.			
403	SHEAR CONNECTORS (2560 studs)	L. S.	1		
318	Tar Emulsion for Bridge Floors	gal.	216		
361B	Bit. Conc. Pavt.	Tons	45		
372A	Joint Sealer - Hot Poured	L. F.	26		
372C	Joint Sealer - Preformed Type B	L. F.	33		
404A	Structural Steel	Lbs	185,500		
556C	Granite Bridge Curb	L. F.	473		
572	Bridge Railing	L. F.	513		
440	Water Repellent	Gal.	23		

STATE OF VERMONT
DEPARTMENT OF HIGHWAYS

TOWN OF HARTFORD

ROUTE NO. _____ LOG STA. _____

T.H.#36 OVER I-89

PLAN & ELEVATION

SCALE As noted

SURVEYED BY _____

DRAWN BY E.H.I. CHECKED BY E.R.D.

Bridge Sheet No. BR 172 Sheet 129 of 260

BR 501 of 512