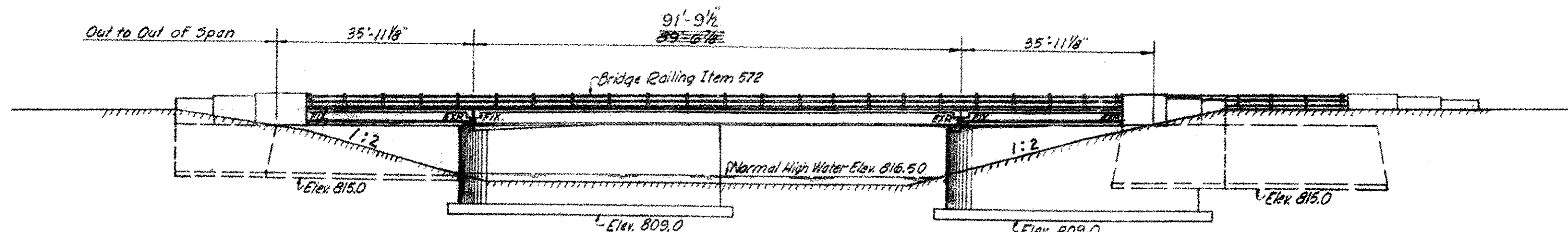


VERTICAL CURVE DATA
 400' Vertical Curve
 PVI Sta. 164+00.00 El. 828.13
 PPT Sta. 164+00.00 El. 830.41
 PVT Sta. 164+00.00 El. 828.13
 E = -0.67
 G₁ = +1.64%
 G₂ = +0.31%

HORIZONTAL CURVE DATA
 Bank = 1/4" Per Ft.
 Δ = 10° 17' 18"
 D = 110.00'
 R = 5729.58'
 T = 515.55'
 L = 1028.83'
 PC Sta. 156+85.84
 PT Sta. 167+14.17 Back =
 PT Sta. 167+15.53 Ahead

PLAN
 1/16" = 1'-0"



ELEVATION
 1/16" = 1'-0"

- GENERAL NOTES:**
- Design in accordance with the American Association of State Highway Officials Standard Specifications for Highway Bridges, 1957, and the State of Vermont Department of Highways, Standard Specifications for Highway & Bridge Construction, 1956.
 - Design Live Loading H-20-516 - S.S.
 - All elevations from U.S.G.S. datum.
 - Foundations shall be taken to elevations given on plans unless otherwise directed by the Engineer.
 - Existing structure shall be dismantled and stored according to the direction of the Engineer, for disposition by the State. The Contractor shall erect a temporary bridge for the purpose of maintaining traffic during construction of the new structure.
 - All concrete shall have an ultimate compressive strength of 3,000 PSI at the age of 28 days.
 - All reinforcing steel shall be intermediate grade with an allowable tensile working stress of 20,000 PSI. Deformations shall conform to ASTM Designation A-305-53T.
 - All structural steel shall conform to ASTM Designation A-7 and shall have an allowable tensile working stress of 18,000 PSI.

ESTIMATE OF BRIDGE QUANTITIES						
Final	Item No.	Item Description	Unit	Net	Overrun	Total
3,441	106-C	Unclassified Channel Excavation	C.Y.	4,987	513	5,500
725	107	Structure Excavation	C.Y.	623	67	690
129	222	Gravel Backfill	C.Y.	156	14	170
* 0	361-B	Bituminous Concrete Pavement	Tons	115	15	130
983	401-B	Concrete Class B (MOD)	C.Y.	992	50	1,042
71,201	402	Reinforcing Steel	LB.	68,196		68,196
1	409	Spiral Reinforcement - #620#	LS	1		1
193,600	404-A	Structural Steel	LB.	183,815	3,785	193,600
74	407	Asphaltic-Asbestos Coating	S.Y.	74		74
1	441	Temporary Bridge	LS	1		1
1	442	Removal of Present Superstructure	LS	1		1
875	521	Stone Fill (Heavy Type)	C.Y.	700	70	770
1,245	522	Stone Fill For Slope Protection	C.Y.	900	100	1,000
382	556-C	Granite Bridge Curb	L.F.	369		369
354	572	Bridge Railing	L.F.	297		297
220	318	Tar Emulsion For Bridge Floors	Gal	323		323

*Included in Roadway Quantity

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BRIDGE 16
 FOR REFERENCE ONLY
 SHEET 10 OF 16

STATE OF VERMONT
 DEPARTMENT OF HIGHWAYS

TOWN OF CHESTER

ROUTE NO. 103 LOG STA. _____

GENERAL PLAN
 AND ELEVATION

SCALE AS NOTED

SURVEYED BY R.S.

DRAWN BY H.H.S. CHECKED BY J.T.H.

PROJECT NO. F 025-11(8)

SHEET 36 OF 208