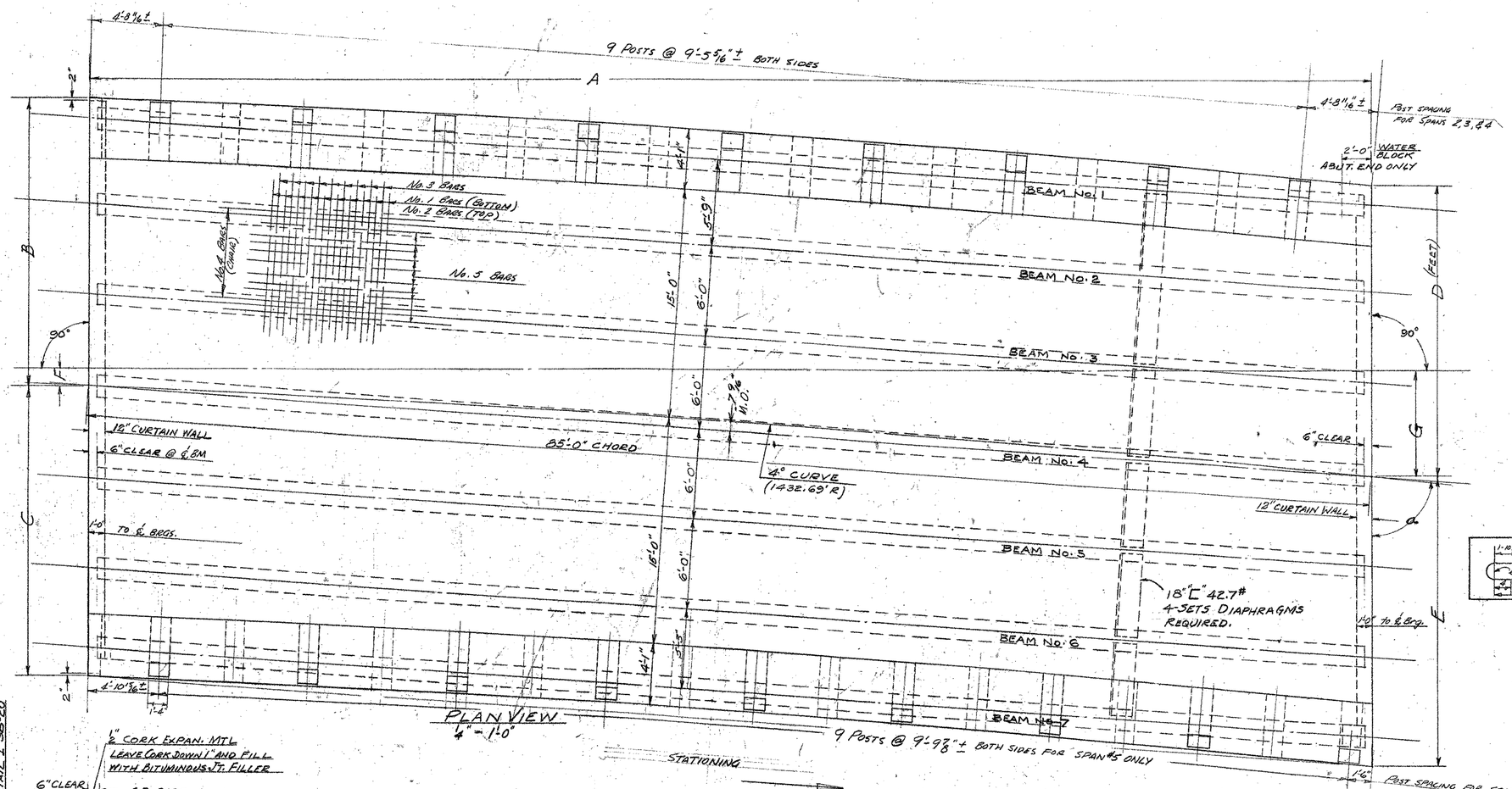
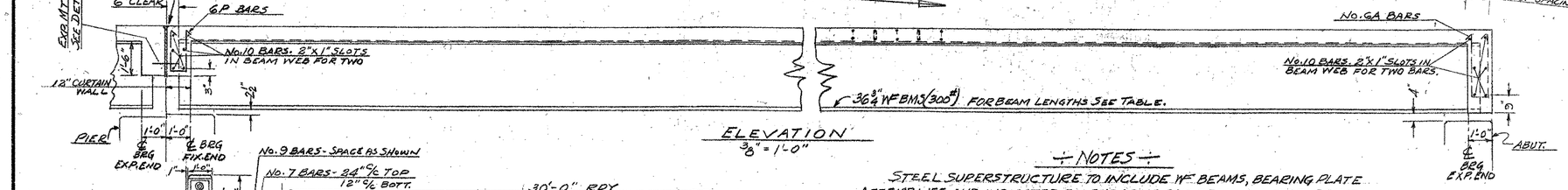
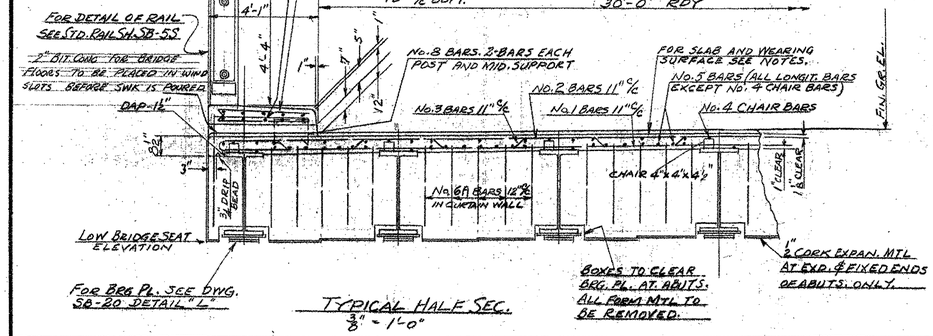


PLAN VIEW
1/4" = 1'-0"



ELEVATION
3/8" = 1'-0"

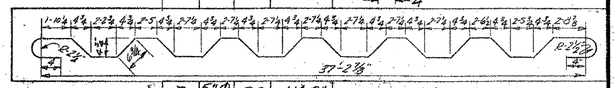


TYPICAL HALF SEC.
3/8" = 1'-0"

SPAN	2	3	4	5
A	84'-9 5/8"	84'-3 3/4"	83'-6 1/4"	82'-5 1/4"
B	19'-1"	19'-2 1/16"	19'-3 13/16"	19'-6 3/8"
C	19'-1 3/16"	19'-2 1/8"	19'-3 7/8"	19'-6 9/16"
D	19'-2 1/16"	19'-3 13/16"	19'-6 3/8"	19'-9 7/8"
E	19'-2 1/8"	19'-3 7/8"	19'-6 9/16"	19'-10 1/8"
F	1'-0 11/16"	6'-10 1/16"	17'-7 5/8"	33'-5"
G	6'-10 1/16"	17'-7 5/8"	33'-5"	54'-1 1/2"
BEAM-1	84'-0"	84'-0	84'-0"	84'-0"
" -2	84'-0"	84'-0"	84'-0"	84'-0"
" -3	84'-0"	84'-0"	84'-0"	84'-0"
" -4	84'-0"	84'-0"	84'-0"	84'-0"
" -5	84'-0"	84'-0"	84'-0"	84'-0"
" -6	84'-0"	84'-0"	84'-0"	84'-0"
-7	84'-0"	84'-0"	84'-0"	84'-0"
α	86°-6'-2".08	82°-42'-1".65	79°-18'-4".18	75°-53'-40".53

1 SPAN
REINFORCING STEEL (INTERMEDIATE GRADE)

BAR	SIZE	REQ.	TOT. LGTH.	DETAIL
1	5/8" φ	93	37'-8"	STRAIGHT
2	5/8" φ	93	39'-3"	2 1/2" R, 37'-3", 4
3	5/8" φ	93	41'-2"	SEE DET. ABOVE
4	3/4" φ	21	30'-2"	STRAIGHT
5	1/2" φ	222	29'-6"	STRAIGHT
6A	1" φ	~~64~~ ~~32~~	6'-9"	A = 2'-9 1/2", B, A, 3", * FOR SPAN #5
6P	2	32#	4'-5"	A = 1'-7 1/2", 3'-7"
7	5/8" φ	256	3'-11"	45°, 4 1/2"
8	1/2" φ	72	6'-3"	1'-7", 3'-7", 3"
9	1/2" φ	60	29'-6"	STRAIGHT
10	5/8" φ	24	20'-10"	STRAIGHT



REFERENCE SHEET ONLY
SHEET 65 OF 68

NOTES

STEEL SUPERSTRUCTURE TO INCLUDE WF BEAMS, BEARING PLATE ASSEMBLIES AND INDICATED DIAPHRAGMS FOR SPAN. ALL STEEL BEAMS SHALL BE ROLLED TO A TRUE CIRCULAR CAMBER, FULL LENGTH OF THE BEAM WITH A MIDDLE ORDINATE OF 2". FOR DIAPHRAGMS SEE DWG. SB-20, DET. K.

ALL STRUCTURAL STEEL SHALL BE PAINTED AS SPECIFIED UNDER ITEM 403 A & B OF STD. SPEC. FOR ROAD & BRIDGE CONSTRUCTION FOR THE STATE OF VERMONT-1948. THE FINAL COAT OF PAINT IN FIELD SHALL BE GREEN, UNLESS OTHERWISE DIRECTED BY THE ENGINEER.

FLOOR SLAB SHALL BE CLASS "B" CONCRETE 7 1/2" THICK, DAPPED 1/2" AT BEAMS. SURFACE TO BE SCREEDED, FLOATED AND BROOMED. CROWN OF 1/8" PER FOOT TO BE OBTAINED BY STEPPING BRIDGE SEATS.

WEARING SURFACE COURSE OF BITUMINOUS CONCRETE 2" THICK TO BE APPLIED TO BRIDGE FLOOR. SEE ITEM-381 - STD. SPEC. 3. OF VT.-1948.

THIS SHEET DOES NOT INCLUDE QUANTITIES FOR RAILING OR POSTS.

ALL MATERIAL AND CONSTRUCTION SHALL CONFORM TO THE STD. ROAD & BRIDGE SPEC. FOR THE STATE OF VERMONT-1948 AND THE A.A.S.H.O. SPEC.-1949.

DESIGNED FOR H-20(44) LIVE LOADING, 85#/□' PAVING ALLOWANCE. DEAD LOAD INCLUDES WEIGHT OF BEAMS, SLAB & PIPE RAIL.

FOR LOCATION OF FIXED & EXPANSION BEARINGS, SEE PLAN AND PROFILE SHEET.

ESTIMATED QUANTITIES

MATERIAL	SPAN-2	SPAN-3	SPAN-4	SPAN-5
SUPERSTRUCTURAL STEEL	186520 Lb	186535 Lb	186540 Lb	186590 Lb
REINFORCING STEEL	~~20,100 Lb~~	~~20,100 Lb~~	~~20,100 Lb~~	~~20,100 Lb~~
CONCRETE CLASS "B"	~~112~~ c.y.	~~112~~ c.y.	~~112~~ c.y.	~~113~~ c.y.
BITUMINOUS CONCRETE	~~76~~ c.y.	~~76~~ c.y.	~~76~~ c.y.	~~76~~ c.y.
REINFORCING STEEL	20,240 lb	20,240 lb	20,240 lb	20,091 lb
CONCRETE CLASS "B"	121.6 cy	121.6 cy	121.6 cy	121.6 cy
BITUMINOUS CONCRETE	19 cy	19 cy	19 cy	19 cy

CAMBRIDGE
ROUTE-15
SUPERSTRUCTURE
SPANS-#2, 3, 4 & 5

SCALE AS SHOWN

Surveyed by
Designed by - H.R.D
Drawn by - H.R.D. 5/49
Traced by (HAS QUANTITIES ONLY)
Checked by (J.H. Except Quant.)
Series ST No. 122 M Filed
Sheet 10 of 29 Sheets

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