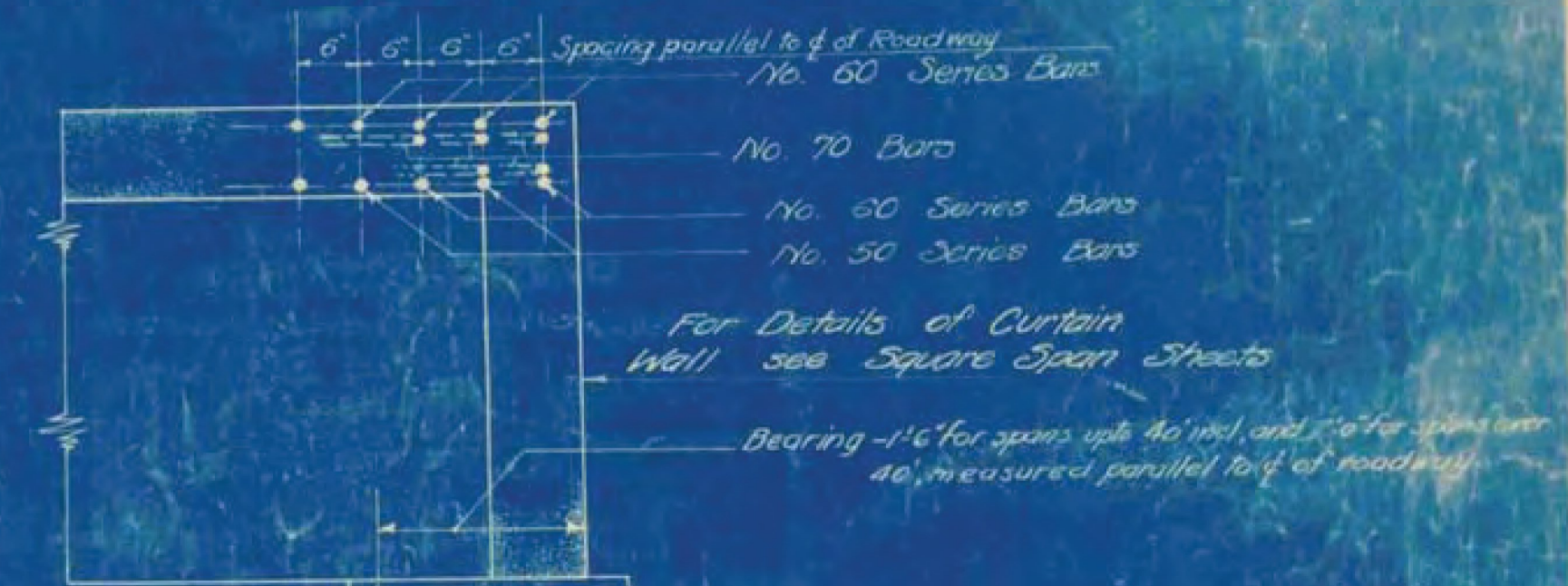
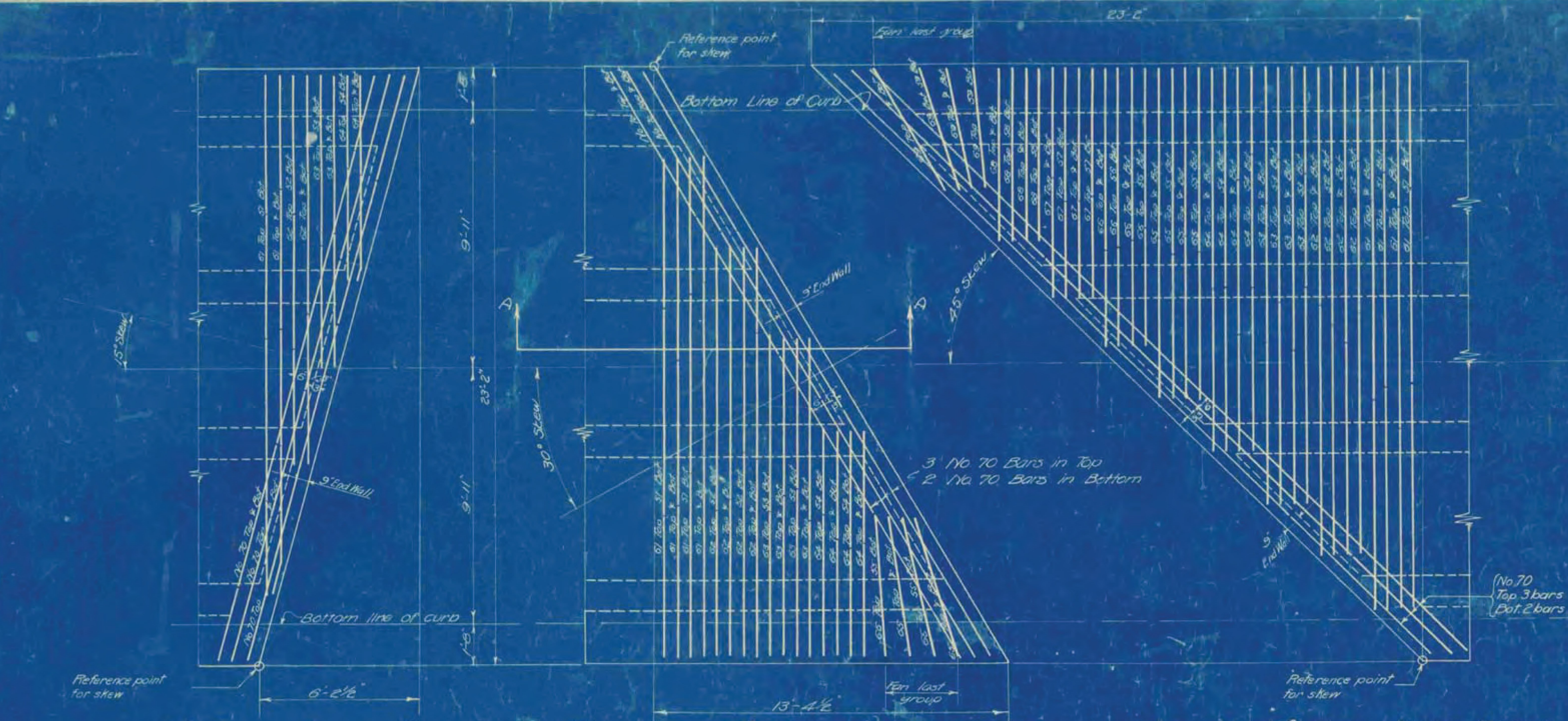


KEY PLAN



TYPICAL SECTION A-A

Scale 3/4" = 1'-0"



PLAN OF 15° SKEW ANGLE BRIDGE PLAN OF 30° SKEW ANGLE BRIDGE PLAN OF 45° SKEW ANGLE BRIDGE

Scale 3/8" = 1'-0"

STEEL SCHEDULE ~15° SKEW
FOR 2 SKEW ENDS

Bar No.	Size	Total Length	L
51	3/8"	21'-3"	20'-0"
52	3/8"	16'-3"	15'-0"
53	3/8"	12'-6"	11'-3"
54	3/8"	9'-3"	8'-0"
61	3/8"	20'-0"	Straight
62	3/8"	15'-0"	"
63	3/8"	11'-3"	"
64	3/8"	8'-0"	"
70	3/8"	23'-0"	"

For concrete quantities of 15° skew bridges use the same quantities as for square bridges of corresponding span.
For steel quantities of skew bridges add 270 lbs. reinforcing steel to the square bridge quantities.

STEEL SCHEDULE ~30° SKEW
FOR 2 SKEW ENDS

Bar No.	Size	Total Length	L
51	3/8"	20'-6"	19'-3"
52	3/8"	17'-0"	15'-0"
53	3/8"	13'-5"	12'-3"
54	3/8"	10'-0"	8'-3"
55	3/8"	8'-6"	5'-3"
61	3/8"	19'-9"	Straight
62	3/8"	15'-9"	"
63	3/8"	12'-3"	"
64	3/8"	9'-9"	"
65	3/8"	6'-3"	"
70	3/8"	25'-0"	"

For concrete quantities of 30° skew bridges from 20' to 40' span, add nothing to the quantities of square bridges of corresponding span; for skew spans from 45' to 55' add 1 cu. yd.
For steel quantities of skew bridges add 280 lbs. reinforcing steel to the square bridge quantities.

STEEL SCHEDULE ~45° SKEW
FOR 2 SKEW ENDS

Bar No.	Size	Total Length	L
51	3/8"	22'-3"	21'-0"
52	3/8"	20'-0"	18'-9"
53	3/8"	18'-0"	16'-9"
54	3/8"	15'-0"	14'-9"
55	3/8"	14'-0"	12'-9"
56	3/8"	12'-0"	10'-9"
57	3/8"	10'-0"	8'-9"
58	3/8"	8'-0"	6'-9"
59	3/8"	6'-0"	4'-9"
61	3/8"	21'-0"	Straight
62	3/8"	18'-9"	"
63	3/8"	16'-9"	"
64	3/8"	14'-9"	"
65	3/8"	12'-9"	"
66	3/8"	10'-9"	"
67	3/8"	8'-9"	"
68	3/8"	6'-9"	"
69	3/8"	4'-9"	"
70	3/8"	32'-0"	"

For concrete quantities of 45° skew bridges from 20' to 40' span, add 1/2 cu. yd. to the quantities of square bridges of corresponding span; for skew spans from 45' to 55' add 1 cu. yd.
For steel quantities of skew bridges add 720 lbs. reinforcing steel to the square bridge quantities.

Note: Bars Nos. 10 and 11 are not shown in plan on this sheet but the weights are included in the quantities.
They should be furnished the same length and in the same numbers as for square bridges of the same span.
Reinforcing and concrete sections of concrete beams for skew spans same as for square spans.
Cutoff of steel I beams for skew I beam bridges shall be made at skew angle or give 1/4" over 4" reach and blocked or buried off at skew angle.

**St. Johnsbury
BRO-1447(30)
Sheet 72 of 76
For Reference Only**

General Notes
The correctness of this steel schedule is not guaranteed and no claim will be allowed for any inaccuracy therein.
All steel to be determined. Bars Reinforcing Steel shall conform to the Standard Specifications for Bridge Steel Concrete Reinforcement Bars Intermediate or Structural Grade of the American Society for Testing Materials Serial Designation A-15-14.
All bar detail dimensions refer to G. of Steel.
All work and materials shall conform to the Standard Road and Bridge Specifications of the Vermont Department of Highways, 1926.
For details of bridge section between skew ends see Standard Tee and I beam sheets and typical detail sheet SB 2 as referenced thereon.
Slab thickness and crown for skew bridge ends shall be the same as for typical square span bridges with which they are used.

**SKEW ENDS
FORTEE AND I BEAM BRIDGES
STATE OF VERMONT
DEPARTMENT OF HIGHWAYS**

CORRECT: *A. D. Bishop*
BRIDGE ENGINEER

Designed by
Drawn by AGE 4-24-28
Traced by AGE 4-26-28
Checked by M. R. Cardinal 3/5/28
Series SB No. 3
Sheet _____ of _____