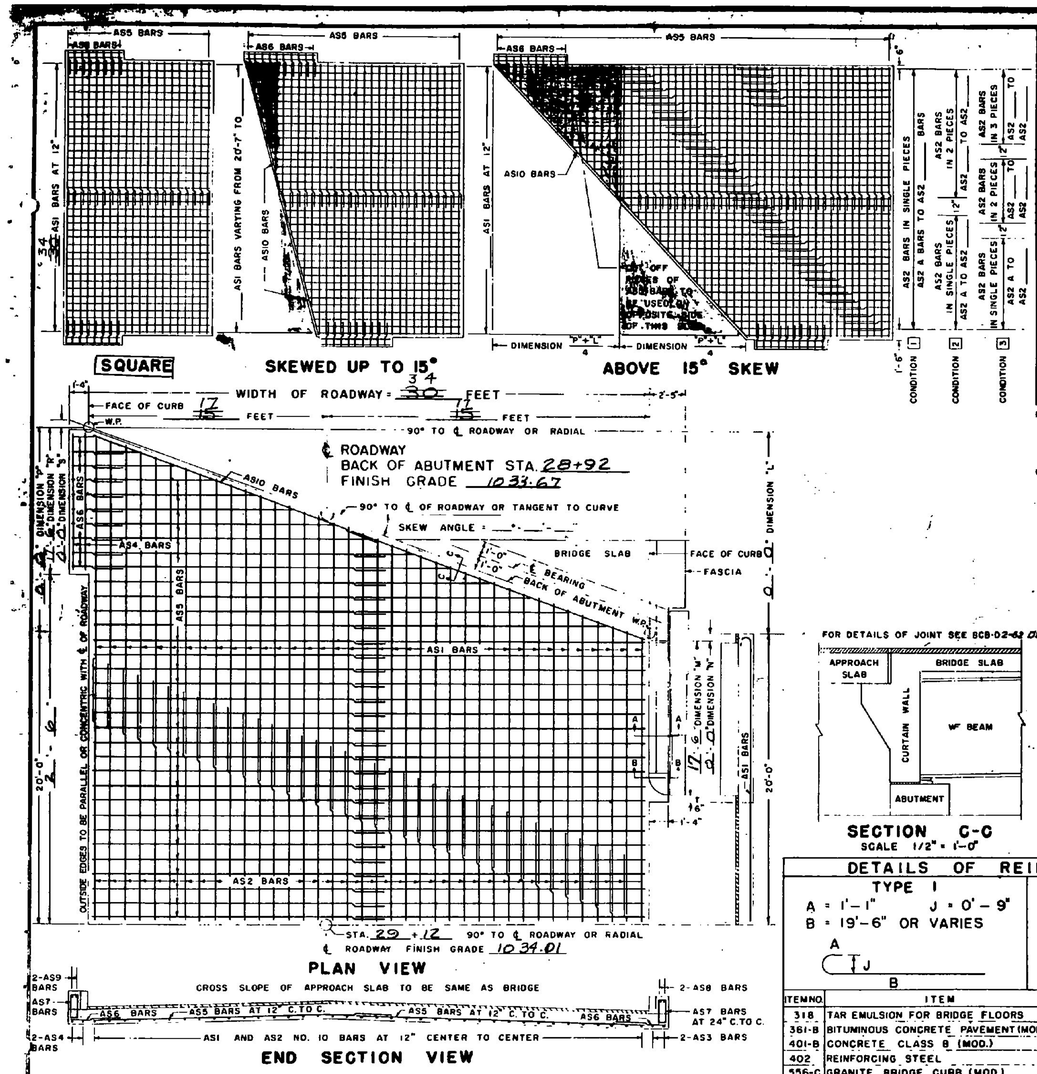
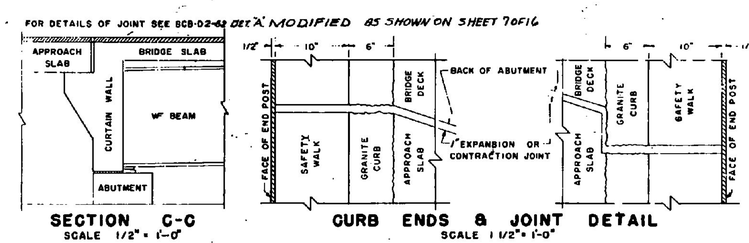


34 ~~30~~' ROADWAY						38' ROADWAY						42' ROADWAY						44' ROADWAY						___ ROADWAY					
NO. PIECES	SIZE	LENGTH	MARK	TYPE	REMARKS	NO. PIECES	SIZE	LENGTH	MARK	TYPE	REMARKS	NO. PIECES	SIZE	LENGTH	MARK	TYPE	REMARKS	NO. PIECES	SIZE	LENGTH	MARK	TYPE	REMARKS	NO. PIECES	SIZE	LENGTH	MARK	TYPE	REMARKS
SQUARE OR SKEWED						SQUARE OR SKEWED						SQUARE OR SKEWED						SQUARE OR SKEWED						SQUARE OR SKEWED					
2	10	17'-0"	AS3	STR.		2	10		AS3	STR.		2	10		AS3	STR.		2	10		AS3	STR.		2	10		AS3	STR.	
2	10	17'-0"	AS4	STR.		2	10		AS4	STR.		2	10		AS4	STR.		2	10		AS4	STR.		2	10		AS4	STR.	
36	5	3'-6"	AS6	STR.			5	3'-6"	AS6	STR.			5	3'-6"	AS6	STR.			5	3'-6"	AS6	STR.			5	3'-6"	AS6	STR.	
20	5	5'-0"	AS7	S6			5	5'-0"	AS7	S6			5	5'-0"	AS7	S6			5	5'-0"	AS7	S6			5	5'-0"	AS7	S6	
2	5	15'-4	AS8	STR.		2	5		AS8	STR.		2	5		AS8	STR.		2	5		AS8	STR.		2	5		AS8	STR.	
2	5	15'-4	AS9	STR.		2	5		AS9	STR.		2	5		AS9	STR.		2	5		AS9	STR.		2	5		AS9	STR.	
SQUARE						SQUARE						SQUARE						SQUARE						SQUARE					
~~30~~ 34	10	20'-7"	AS1	1		38	10	20'-7"	AS1	1		42	10	20'-7"	AS1	1		44	10	20'-7"	AS1	1			10	20'-7"	AS1	1	
20	5	~~22'-9"~~	AS5	STR.		40	5	19'-9"	AS5	STR.		40	5	21'-9"	AS5	STR.		40	5	22'-9"	AS5	STR.			5		AS5	STR.	
SKEWED UP TO 15°						SKEWED UP TO 15°						SKEWED UP TO 15°						SKEWED UP TO 15°						SKEWED UP TO 15°					
30	10	AVE.	AS1	1	1.	38	10	AVE	AS1	1	1.	42	10	AVE	AS1	1	1.	44	10	AVE	AS1	1	1.		10	AVE	AS1	1	1.
	5	29'-6"	AS5	STR.	2.		5	19'-9"	AS5	STR.	3.		5	21'-9"	AS5	STR.	3.		5	22'-9"	AS5	STR.	3.		5		AS5	STR.	2.
ALL SKEWED SPANS						ALL SKEWED SPANS						ALL SKEWED SPANS						ALL SKEWED SPANS						ALL SKEWED SPANS					
2.	5		AS1O	STR.			5		AS1O	STR.			5		AS1O	STR.			5		AS1O	STR.			5		AS1O	STR.	
ABOVE 15° SKEW						ABOVE 15° SKEW						ABOVE 15° SKEW						ABOVE 15° SKEW						ABOVE 15° SKEW					
30	10	20'-7"	AS1	1		38	10	20'-7"	AS1	1		42	10	20'-7"	AS1	1		44	10	20'-7"	AS1	1			10	20'-7"	AS1	1	
29	10	AVE.	AS2	STR.	4.	37	10	AVE	AS2	STR.	4.	41	10	AVE	AS2	STR.	4.	43	10	AVE	AS2	STR.	4.		10	AVE	AS2	STR.	4.
	5	29'-6"	AS5	STR.	2.		5	19'-9"	AS5	STR.	3.		5	21'-9"	AS5	STR.	3.		5	22'-9"	AS5	STR.	3.		5		AS5	STR.	3.

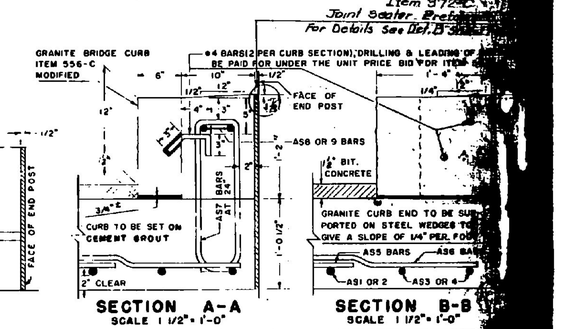
REMARKS: ● ASI BAR "B" DIMENSION VARIES FROM 19'-6" TO ____ ● 20 + DIMENSION ("P"+"L") ÷ 4 (IN FEET) = NUMBER OF PIECES. CUT BARS IN THE FIELD USING CUT OFF PIECES ON OPPOSITE HALF OF SLAB. ● 40 + DIMENSION ("P"+"L") ÷ 2 (IN FEET) = NUMBER OF PIECES. CUT BARS IN THE FIELD USING CUT OFF PIECES ON OPPOSITE HALF OF SLAB. ● THE LENGTH OF AS2 BARS VARIES FROM ____ TO ____. THE AS2 BARS MAY BE DIVIDED INTO TWO OR MORE PIECES, AS MAY BE NECESSARY, TO LIMIT THE MAXIMUM BAR LENGTH TO 30 FEET. THE LOCATION OF SPLICES IS LEFT TO THE OPTION OF THE DESIGNER. THE NO. PIECES SHOWN ARE FOR CONDITION 1. (FOR CONDITION 2. & 3. SEE REINF. SCHEDULE)

GENERAL NOTES: ALL REINFORCING STEEL SHALL BE DETAILED ON THE REINFORCING STEEL SCHEDULE. WHEN A BAR LENGTH VARIES IN INCREMENTS EACH BAR MUST BE DETAILED. SPLICES SHALL BE 2'-1" FOR NUMBER 5 BARS, AND 4'-3" FOR NUMBER 10 BARS. ALL WORK AND MATERIALS 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. SPECIFICATIONS DATED 1964. DESIGNED FOR HS-20



SECTION C-C
SCALE 1/2" = 1'-0"

CURB ENDS & JOINT DETAIL
SCALE 1 1/2" = 1'-0"



SECTION A-A
SCALE 1 1/2" = 1'-0"

SECTION B-B
SCALE 1 1/2" = 1'-0"

DETAILS OF REINFORCING BARS

TYPE I
A = 1'-1" J = 0'-9"
B = 19'-6" OR VARIES

TYPE S6
A = 0'-6"
B = 1'-9"
C = 0'-6"
D = 1'-9"
G = 0'-6"

ITEM NO.	ITEM	UNIT	TOTAL	FINAL
318	TAR EMULSION FOR BRIDGE FLOORS	GAL.	~~27~~ 30	24
361-B	BITUMINOUS CONCRETE PAVEMENT (MOD.)	TONS	6	
401-B	CONCRETE CLASS B (MOD.)	CY.	~~27~~ 30	28
402	REINFORCING STEEL	LB.	~~3885~~ 4301	4301
556-C	GRANITE BRIDGE CURB (MOD.)	LF.	36	36

REINFORCING STEEL

BAR NO.	A NO. PIECES	B LENGTH	C WEIGHT PER FT. LB.	A x B x C WEIGHT LB.
AS1	~~34~~ 30	20'-7"	4.303	~~2616.90~~ 2576.67
AS2			4.303	
AS3	2	17'-0	4.303	146.30
AS4	2	17'-0	4.303	146.30
AS5	20	~~22'-6~~	1.043	~~516.37~~
AS6	36	3'-6"	1.043	131.42
AS7	20	5'-0"	1.043	104.30
AS8	2	15'-4	1.043	31.98
AS9	2	15'-4	1.043	31.98
~~AS10~~			1.043	
TOTAL WEIGHT =				~~4301.94~~ 4301.34

QUANTITY COMPUTATION

W = WIDTH OF ROADWAY Z = 20 + DIMENSION ("P"+"L")/4 T = DIMENSION ("P"+"L")/4
W = ~~30~~ 34 Z = 20 T = 17.5

BITUMINOUS CONCRETE = W x Z x 0.0092 = TONS ~~34~~ 30 x 20 x 0.0092 = 6 TONS
TAR EMULSION = W x Z x 0.0444 = GALLONS ~~34~~ 30 x 20 x 0.0444 = ~~29.93~~ GALLONS
CONCRETE CLASS B = W x Z x 0.0386 + T x 0.1029 + (T − 1.8333) x 0.0733 = CUBIC YARDS
[~~34~~ 30 x 20 x 0.0386] + [17.5 x 0.1029] + [(17.5 − 1.8333) x 0.0733] = ~~28~~ 28 CUBIC YARDS
GRANITE BRIDGE CURB = 2(T + 0'-3") = LINEAR FEET 2(17.5 + 0.25) = 36 LINEAR FEET

BAR LENGTHS: AS3 BARS = DIMENSION "N" − 0'-6"
AS4 BARS = DIMENSION "N" − 0'-6"
AS6 BARS = 3'-6"
AS7 BARS = 5'-0"
AS8 BARS = DIMENSION "N" − 2'-2"
AS9 BARS = DIMENSION "N" − 2'-2"

F-DECK(22)S, BR. #99
THIS SHEET FOR INFORMATION ONLY
Sheet Revised 2-7-

REVISIONS AND CORRECTIONS
Revised Joint Filler Item 313 - 6-21-63

APPROVED
DRAWN BY: R.S. HAUPT NOV. 1960
TRACED BY: R.S. HAUPT NOV. 1960
CHECKED BY: A.H. SMALLEY NOV. 1960
Recommended For Approval — Bridge Engineer — Date 12/7/62
Recommended For Approval — Asst. Chief Engineer — Date 1/4/63
Approved By — Chief Engineer — Date 1/4/63

DETAILS OF APPROACH SLAB #2
FOR ~~30~~ 34 (WIDTH) FOOT BRIDGE
TO BE USED FOR BRIDGE AT STATION 28+50
LOCATION BRANCH BROOK

STATE OF VERMONT
DEPARTMENT OF HIGHWAYS
STANDARD STRUCTURE
SB-AS-60
SHEET 18 OF 40

TOWN OF MT. HOLLY
ROUTE NO. VT 100
LOG STA. 1+30
SCALE AS NOTED
DESIGNED BY GVK CHECKED

LUDLOW
STP DECK(39)
BRIDGE NO. 99
PAGE 36 OF 42
FOR REFERENCE ONLY