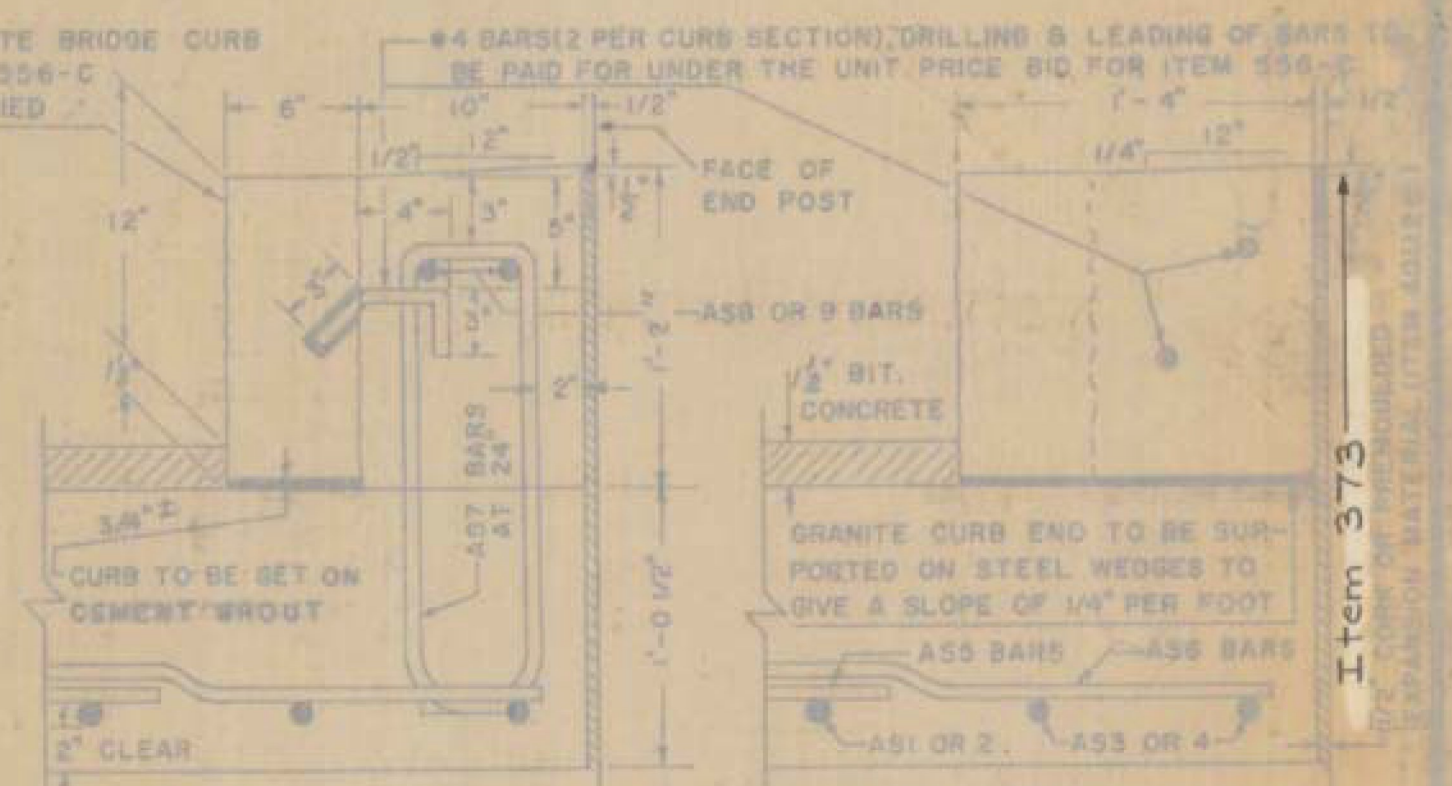
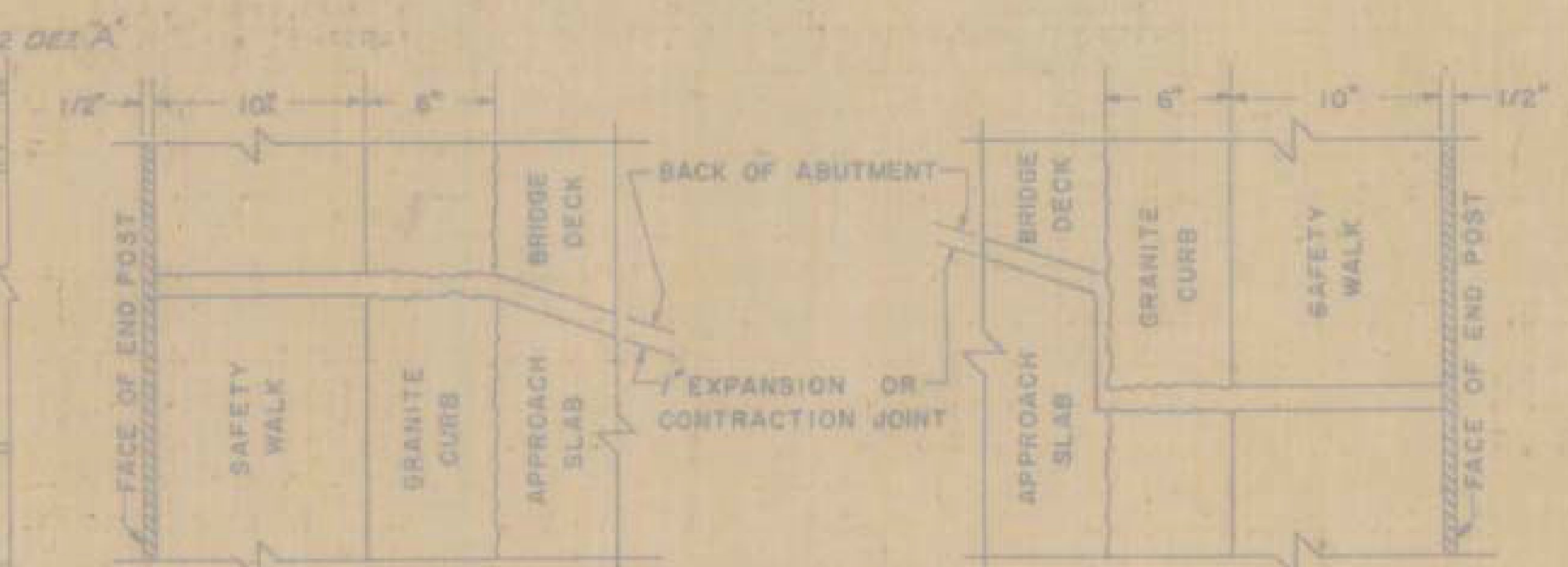
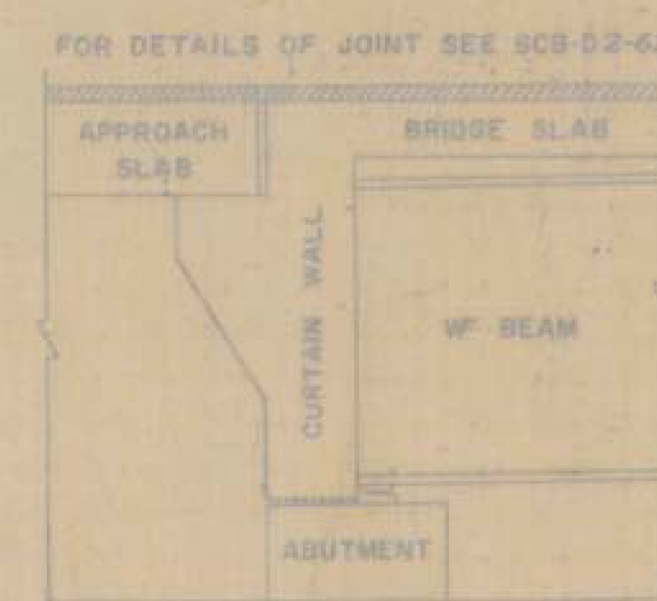


30' ROADWAY				35' ROADWAY				42' ROADWAY				44' ROADWAY				ROADWAY			
NO. PIECES	SIZE	LENGTH	REMARKS	NO. PIECES	SIZE	LENGTH	REMARKS	NO. PIECES	SIZE	LENGTH	REMARKS	NO. PIECES	SIZE	LENGTH	REMARKS	NO. PIECES	SIZE	LENGTH	REMARKS
2	10	7'-0"	AS3 STR.	2	10	7'-0"	AS3 STR.	2	10	7'-0"	AS3 STR.	2	10	7'-0"	AS3 STR.	2	10	7'-0"	AS3 STR.
2	10	7'-0"	AS4 STR.	2	10	7'-0"	AS4 STR.	2	10	7'-0"	AS4 STR.	2	10	7'-0"	AS4 STR.	2	10	7'-0"	AS4 STR.
16	5	3'-6"	AS6 STR.	16	5	3'-6"	AS6 STR.	16	5	3'-6"	AS6 STR.	16	5	3'-6"	AS6 STR.	16	5	3'-6"	AS6 STR.
2	5	5'-0"	AS7 S6	2	5	5'-0"	AS7 S6	2	5	5'-0"	AS7 S6	2	5	5'-0"	AS7 S6	2	5	5'-0"	AS7 S6
2	5	5'-4"	AS8 STR.	2	5	5'-4"	AS8 STR.	2	5	5'-4"	AS8 STR.	2	5	5'-4"	AS8 STR.	2	5	5'-4"	AS8 STR.
2	5	5'-4"	AS9 STR.	2	5	5'-4"	AS9 STR.	2	5	5'-4"	AS9 STR.	2	5	5'-4"	AS9 STR.	2	5	5'-4"	AS9 STR.
SQUARE				SQUARE				SQUARE				SQUARE				SQUARE			
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	
20	5	29'-6"	AS5 STR.	40	5	29'-6"	AS5 STR.	40	5	29'-6"	AS5 STR.	40	5	29'-6"	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	29'-6"	AS5 STR.	3	5	29'-6"	AS5 STR.	3	5	29'-6"	AS5 STR.	3	5			AS5 STR.
ALL SKEWED SPANS ABOVE 15° SKEW				ALL SKEWED SPANS ABOVE 15° SKEW				ALL SKEWED SPANS ABOVE 15° SKEW				ALL SKEWED SPANS ABOVE 15° SKEW				ALL SKEWED SPANS ABOVE 15° SKEW			
2	5	AS10 STR.		5	AS10 STR.			5	AS10 STR.			5	AS10 STR.			5	AS10 STR.		

REMARKS: AS1 BAR "T" DIMENSION VARIES FROM 19'-6" TO 20'-0" (IN FEET) + NUMBER OF PIECES. CUT BARS IN THE FIELD USING CUT OFF PIECES ON OPPOSITE HALF OF SLAB. AS2 BAR "T" DIMENSION VARIES FROM 19'-6" TO 20'-0" (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 19'-6" TO 20'-0" (IN FEET) + NUMBER OF PIECES. 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'-0" FOR NUMBER 5 BARS, AND 4'-0" 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 1962. DESIGNED FOR H20-316-44.



DETAILS OF REINFORCING BARS				REINFORCING STEEL				QUANTITY COMPUTATION					
TYPE I		TYPE S6 C		A	B	C	A X B X C	W	Z	T	MATERIALS		
A = 1'-1"	J = 0'-9"	A = 0'-6"	B = 1'-9"	BAR NO.	LENGTH	WEIGHT PER FT.	WEIGHT IN LBS.	W = WIDTH OF ROADWAY	Z = 20 + DIMENSION	T = DIMENSION			
B = 19'-6" OR VARIES		C = 0'-6"	D = 1'-9"	AS1	30	20'-7"	4,303	30	20	7'-6"			
		D = 1'-9"	G = 0'-6"	AS2			2657	BITUMINOUS CONCRETE = W x Z x 0.0099 = TONS			30 x 20 x 0.0099 = 5.52 TONS		
				AS3	2	7'-0"	4,303	TAR EMULSION = W x Z x 0.0444 = GALLONS			30 x 20 x 0.0444 = 26.64 GALLONS		
				AS4	2	7'-0"	4,303	CONCRETE CLASS B = W x Z x 0.0386 + T x 0.1029 + (T - 1.8333) x 0.0733 = CUBIC YARDS			[30 x 20 x 0.0386] + [7.5 x 0.1029] + [(7.5 - 1.8333) x 0.0733] = 24.35 CUBIC YARDS		
				AS5	20	29'-6"	1,043	GRANITE BRIDGE CURB = (2T + 0'-3") x LINEAR FEET			2(7.5 + 0.25) = 15.50 LINEAR FEET		
				AS6	16	3'-6"	1,043	BAR LENGTHS: AS5 BARS = DIMENSION "M" - 0'-6"			AS5 BARS = DIMENSION "M" - 0'-6"		
				AS7	8	5'-0"	1,043	AS6 BARS = DIMENSION "N" - 0'-6"			AS6 BARS = DIMENSION "N" - 0'-6"		
				AS8	2	5'-4"	1,043	AS7 BARS = 5'-0"			AS7 BARS = 5'-0"		
				AS9	2	5'-4"	1,043	AS8 BARS = DIMENSION "M" - 2'-2"			AS8 BARS = DIMENSION "M" - 2'-2"		
				AS10			1,043	AS9 BARS = DIMENSION "N" - 2'-2"			AS9 BARS = DIMENSION "N" - 2'-2"		
ITEM NO.	ITEM	UNIT	TOTAL	FINAL	TOTAL WEIGHT = 3514				Stage I & II Construction				
318	TAR EMULSION FOR BRIDGE FLOORS	GAL.	27	27									
361-B	BITUMINOUS CONCRETE PAVEMENT (MOD.)	TONS	5.52	5.52									
401-B	CONCRETE CLASS B (MOD.)	CY.	24.35	24.35									
402	REINFORCING STEEL	L.B.	3520	3532									
556-C	GRANITE BRIDGE CURB (MOD.)	LF.	16	16									

DETAILS OF APPROACH SLAB #1 N.B.  
FOR 30 FOOT BRIDGE  
(WIDTH)  
TO BE USED FOR BRIDGE AT STATION 604+73.5  
LOCATION I 89 over Route Vt. 78

STATE OF VERMONT  
DEPARTMENT OF HIGHWAYS  
STANDARD STRUCTURE  
SB-AS-60

TOWN OF Swanton-Highgate  
ROUTE NO. I 89  
LOG STA. 604+73.5  
SCALE AS NOTED  
DESIGNED BY A.J.C. CHECKED BY J.J.C.  
PROJECT NO. I 89-3 (65)  
BR. 406 OF 407 SHEET 149 OF 248

SWANTON  
IM 089-3(70)  
SHEET 30 OF 31  
FOR REFERENCE  
ONLY

APPROVED  
DRAWN BY: R.S. NAUPT NOV. 1960  
TRACED BY: R.S. NAUPT NOV. 1960  
CHECKED BY: A.H. SMALLEY NOV. 1960  
Recommended For Approval: [Signature]  
Recommended For Approval: [Signature]  
Approved By: [Signature]