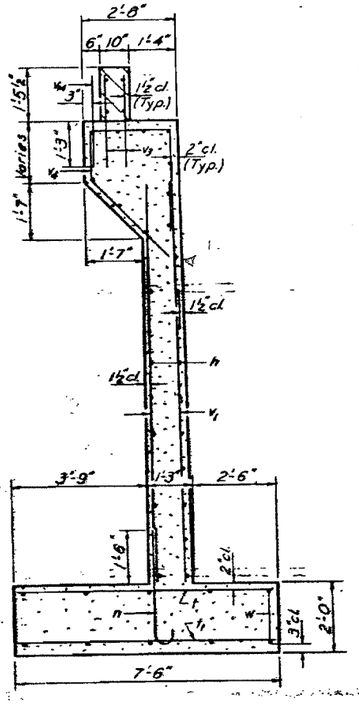
STATE OF ILLINOIS
DEPARTMENT OF TRANSPORTATION

SOUTHBOUND BRIDGE STRUCTURE No. 099-0242 EXISTING PLANS

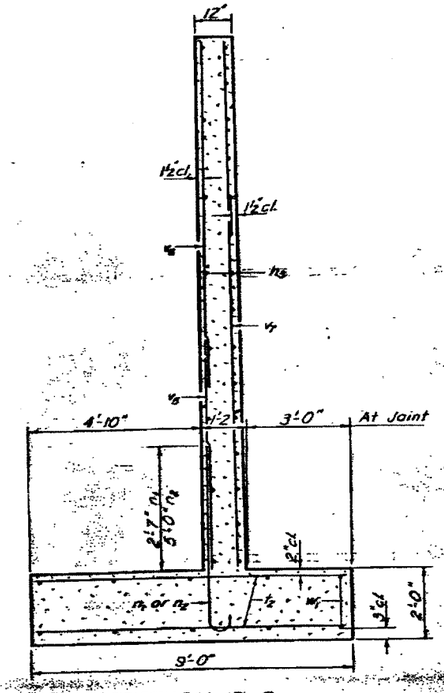
		COUNTY	TOTAL SHEETS	SHEET NO.
A.A.I. A-946	48-1-R	WILL	32	15
FED. ROAD DIST. NO. 7	ILLINOIS	FED. AID PROJECT		

SHEET NO. 8
9 SHEETS

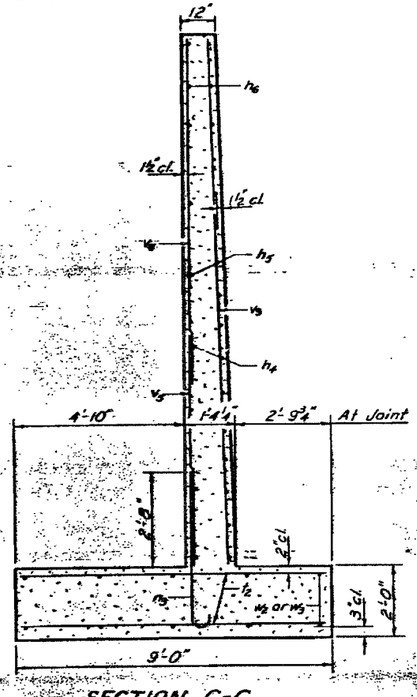
SHEET NO. 6SJ



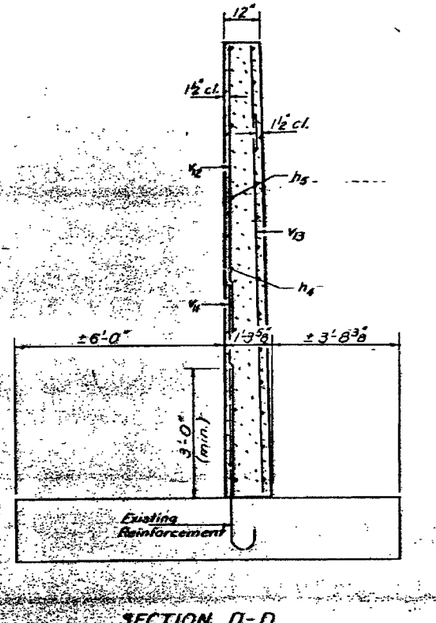
SECTION A-A



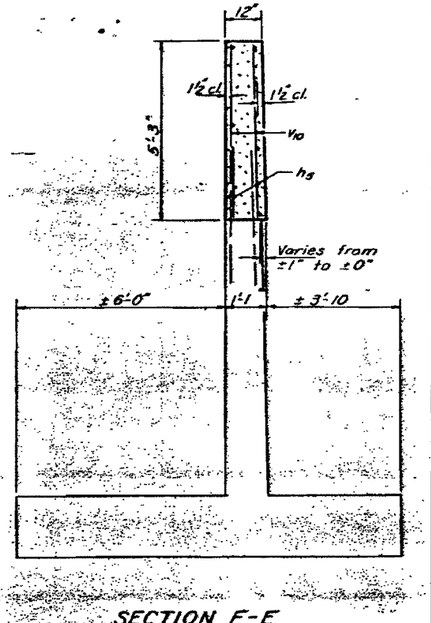
SECTION B-B



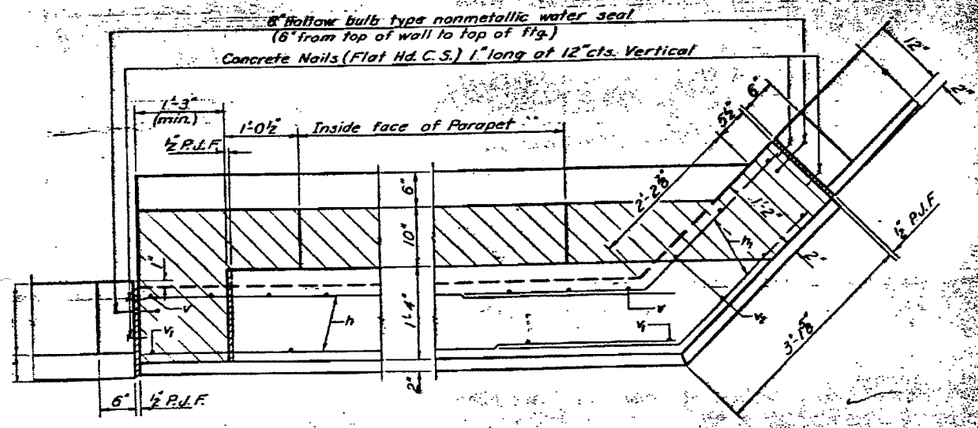
SECTION C-C



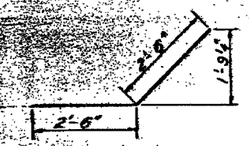
SECTION D-D



SECTION E-E



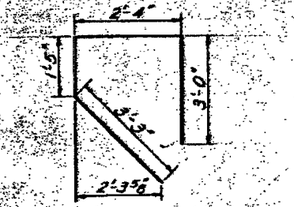
CORNER DETAILS



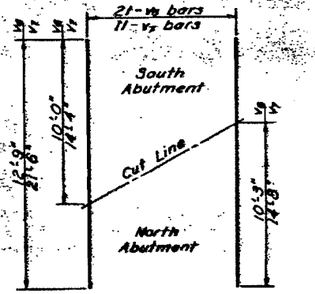
BAR h_1

n	3'-3"	8"
n_1	4'-4"	10"
n_2	6'-9"	7"
n_3	4'-5"	8"

BARS n, n_1, n_2 & n_3



BAR v_4



FIELD CUTTING DIAGRAM

*Order v_4 & v_7 bars full length. Cut to fit as shown and use remainder of bars in other Abutment.

TWO ABUTMENTS BILL OF MATERIAL

Bar	No.	Size	Length	Shape	Bar	No.	Size	Length	Shape
h	50	#4	44'-3"		v_4	90	#6	10'-0"	
h_1	36	#5	5'-0"		v_5	50	#5	6'-6"	
h_2	8	#5	45'-6"		v_6	21	#4	12'-9"	
h_3	46	#4	19'-6"		v_7	11	#4	21'-6"	
h_4	24	#4	21'-9"		v_8	12	#4	10'-6"	
h_5	36	#4	17'-0"		v_9	6	#4	14'-6"	
h_6	8	#4	5'-0"		v_{10}	36	#4	5'-0"	
					v_{11}	38	#6	6'-0"	
					v_{12}	36	#4	8'-0"	
n	114	#6	3'-11"		v_{13}	18	#4	12'-6"	
n_1	36	#7	5'-2"		v_{14}	50	#5	2'-6"	
n_2	34	#5	7'-4"						
n_3	14	#6	5'-1"						
					w	20	#5	47'-3"	
					w_1	20	#5	23'-3"	
f	94	#5	7'-3"		w_2	10	#5	4'-9"	
f_1	94	#6	7'-3"		w_3	10	#5	5'-3"	
f_2	116	#5	8'-9"						
v	108	#6	11'-9"		Class X Concrete			Cu. Yds.	203.7
v_1	46	#4	11'-9"		Reinforcement Bars			Lbs.	15140
v_2	12	#6	12'-6"		Concrete Removal			Cu. Yds.	10
v_3	178	#4	2'-9"		Expansion Bolts ¾"ϕ			Each	12

S.B.

NOTES:
- ▨ indicates Concrete Removal. Reinforcement extending into removed area shall be cleaned and incorporated into the new construction a minimum of 2'-0" where possible unless otherwise noted.
- ▧ indicates Concrete that shall be poured after beams are in place.
- All edges shall have standard ¾" chamfers except as noted.
- Expansion Bolts shall be anchored in sound concrete.

DESIGNED Lin-Yuan Lee
CHECKED R.K. Cowles
DRAWN R.P. Summer
CHECKED Lee R.K.C.

APPROVED APRIL 22 1975
EXAMINED
PASSED
APPROVED

ABUTMENT DETAILS
F.A. RT. 5 SEC. 48-1-R
WILL COUNTY
STA. 1305+00.00

FOR REFERENCE ONLY