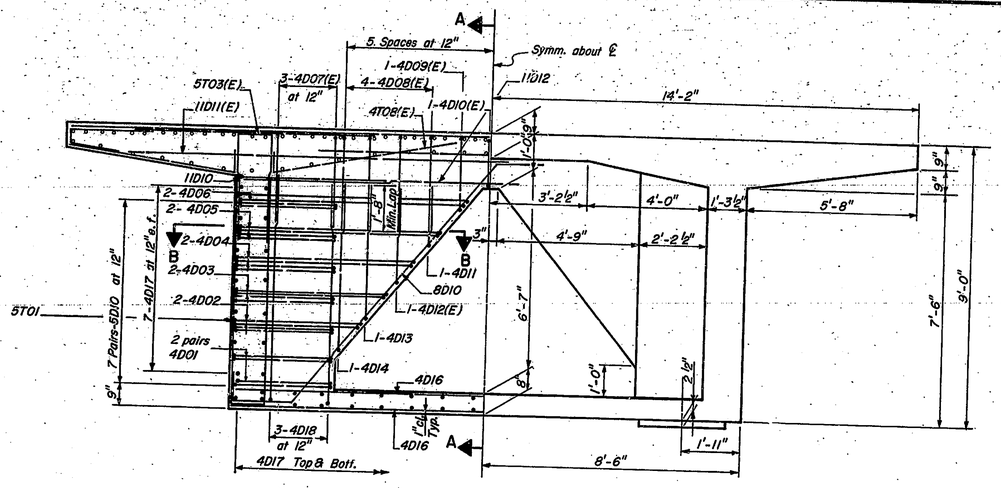
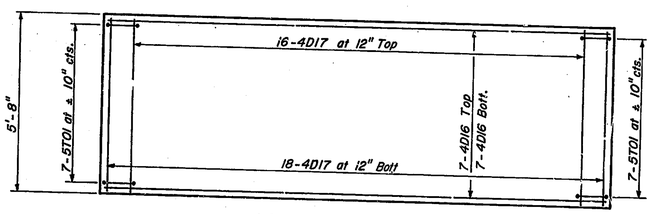
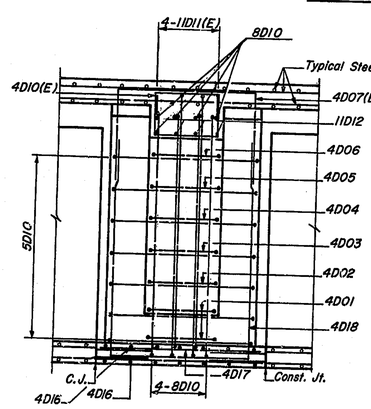


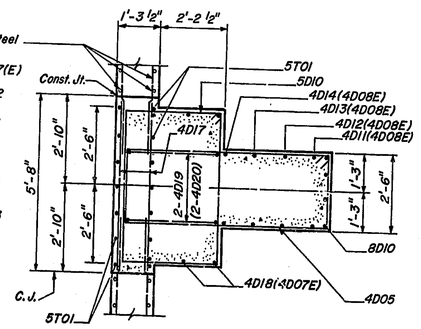
CROSS SECTION AT PIER 302



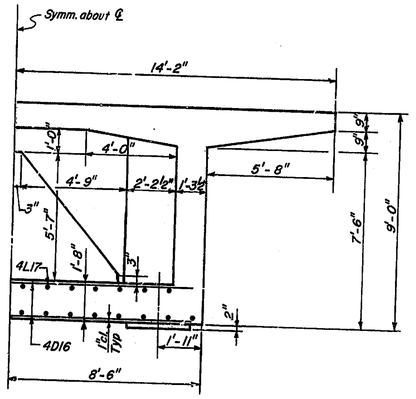
PLAN VIEW-BOTTOM SLAB



SECTION A-A



SECTION B-B

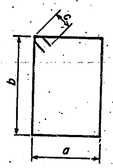


HALF-CROSS SECTION AT PIER 303

BAR BENDING DIAGRAMS

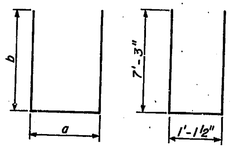
PIER DIAPHRAM REINFORCEMENT

Bar	a	b	c
4D01	3'-3"	2'-4"	4½"
4D02	4'-0¼"	2'-4"	4½"
4D03	4'-10"	2'-4"	4½"
4D04	5'-7¾"	2'-4"	4½"
4D05	6'-5½"	2'-4"	4½"
4D06	7'-3¼"	2'-4"	4½"
4D09(E)	2'-3"	2'-4½"	4½"
4D10(E)	2'-3"	1'-6"	4½"
5D10	3'-3"	4'-10"	5½"



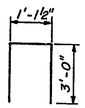
4D01 thru 4D06, 4D09(E), 4D10(E), 5D10

Bar	a	b
4D07(E)	4'-8½"	3'-0"
4D08(E)	2'-3"	3'-0"
4D11	2'-3"	2'-3"
4D12	2'-3"	3'-6"
4D13	2'-3"	4'-8"
4D14	2'-3"	5'-11"
4D18	4'-8½"	7'-3"
4D19	3'-1½"	7'-3"
4D20(E)	3'-1½"	3'-0"
11D10	2'-2½"	4'-10"

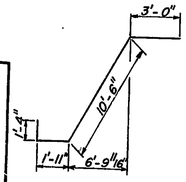


4D07(E), 4D08(E), 4D11 thru 4D14, 4D18, 4D19, 4D20(E), 11D10

5T01



5T03(E)



8D10

BILL OF MATERIAL (*)

Bar	No.	Length	Bent	Str.
4D01	16	11'-11"	•	
4D02	8	13'-6"	•	
4D03	8	15'-1"	•	
4D04	8	16'-9"	•	
4D05	8	18'-4"	•	
4D06	8	20'-0"	•	
4D07(E)	12	10'-9"	•	
4D08(E)	16	8'-3"	•	
4D09(E)	4	10'-0"	•	
4D10(E)	2	8'-3"	•	
4D11	4	6'-9"	•	
4D12	4	9'-3"	•	
4D13	4	11'-7"	•	
4D14	4	14'-1"	•	
4D16	28	16'-10"		•
4D17	124	5'-6"		•
4D18	12	19'-3"	•	
4D19	8	17'-8"	•	
4D20(E)	8	9'-2"	•	
5D10	56	17'-1"	•	
5T01	28	15'-8"	•	
5T03(E)	28	7'-2"	•	
8D10	16	16'-9"	•	
11D10	4	11'-11"	•	
11D11(E)	8	24'-0"		•
11D12	8	15'-0"		•

ESTIMATED QUANTITIES

Item	Unit	Total
Reinforcing Steel	Lb.	4766.66
Reinforcing Steel (Epoxy Coated)	Lb.	1490.58

(*) Quantities of Reinforcement are for 2 (Two) Pier Diaphragms

Concrete Quantities included in Bill of Material Sheet 305.

APPROVED FOR CONSTRUCTION
M. B. Abbott
11-2-81

DESIGNED	MM.	C'K'D.	M.M.
DRAWN	T.F.	C'K'D.	M.M.
TRACED		C'K'D.	

Figg and Muller Engineers Inc.
Consulting Engineers
Tallahassee - Fort Lauderdale

PIER DIAPHRAGM DETAILS

INDIANA STATE HIGHWAY COMMISSION

LAKE COUNTY - RAMP:- B SECTION:-

SCALE:- ½"=1'-0" DATE:- July 29, 1981

SUBMITTED FOR APPROVAL Eugene C. Figg Jr.

DRAWING:- OF SHEET:- 306 OF

PROJECT:- MM 220-1(8)

CONTRACT NO. B-12752

BRIDGE FILE:- 912-45-2546 RWN

EUGENE C. FIGG, JR. REGISTERED 19548 STATE OF INDIANA PROFESSIONAL ENGINEER