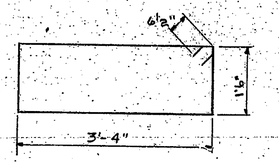
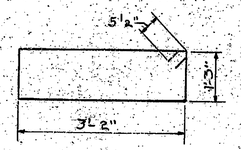
BAR BENDING DIAGRAMS
ABUTMENT DIAPHRAGM REINFORCEMENT

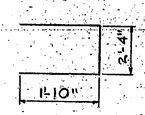
Note:- Number preceding letter denotes bar size.
All dimension are out to out.
All bar bending pin diameters shall be in accordance with A.C.I. Standards.



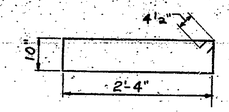
6A08



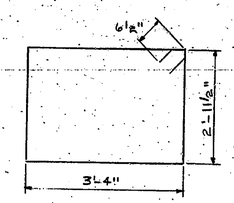
5A04



4A13 (E)

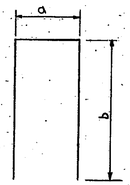


4A01(E)

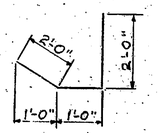


6A01 (E)

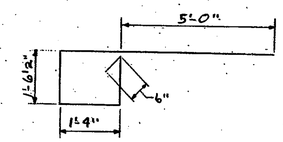
Bar	a	b
10A01(E)	1'-2"	5'-6"
10A02	1'-2"	7'-3"
10A03(E)	3'-1"	5'-6"
10A4	3'-1"	7'-3"



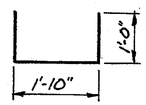
10A01(E) Thru 10A04



4A14 (E)

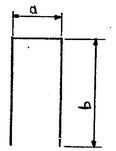


4A02 (E)

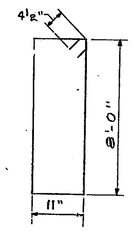


6A10(E)

Bar	a	b
6A02(E)	3'-1"	4'-0"
6A03	3'-1"	7'-3"
6A04(E)	1'-2"	4'-0"
6A05	1'-2"	7'-3"

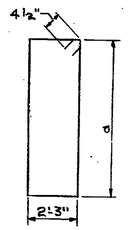


6A02(E) Thru 6A05

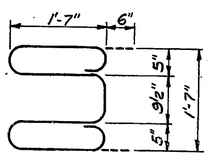


4A15 (E)

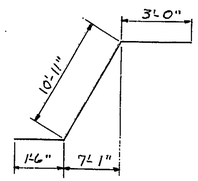
Bar	a
4A03 (E)	6'-4"
4A04(E)	5'-2"
4A05(E)	4'-0"
4A06(E)	2'-10¾"
4A07(E)	1'-8½"



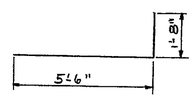
4A03(E) Thru 4A07(E)



4A16(E)

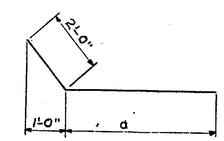


6A06 (E)

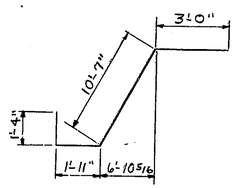


5A01 (E)

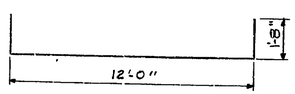
Bar	a
4A08(E)	5'-2"
4A09(E)	4'-3"
4A10(E)	3'-5"
4A11(E)	2'-7"
4A12(E)	1'-9"



4A08(E) Thru 4A12(E)



6A07 (E)



5A02 (E)

BILL OF MATERIAL

Bar	No.	Length	Bent	Str.
4A01(E)	29	7'-1	•	
4A02(E)	24	7'-3"	•	
4A03(E)	2	17'-11"	•	
4A04(E)	2	15'-7"	•	
4A05(E)	2	13'-3"	•	
4A06(E)	2	11'-11"	•	
4A07(E)	2	8'-8"	•	
4A08(E)	2	7'-2"	•	
4A09(E)	2	6'-3"	•	
4A10(E)	2	5'-5"	•	
4A11(E)	2	4'-7"	•	
4A12(E)	2	3'-9"	•	
4A13(E)	10	6'-0"	•	
4A14(E)	4	5'-0"	•	
4A15(E)	2	18'-7"	•	
4A16(E)	48	9'-0"	•	
5A01(E)	4	7'-2"	•	
5A02(E)	2	15'-4"	•	
5A03(E)	4	28'-2"		•
5A04	4	9'-8"	•	
6A01(E)	14	13'-8"	•	
6A02(E)	6	11'-1"	•	
6A03	6	17'-7"	•	
6A04(E)	2	9'-2"	•	
6A05	2	15'-8"	•	
6A06(E)	4	15'-5"	•	
6A07(E)	6	16'-10"	•	
6A08	14	10'-9"	•	
6A09	24	16'-10"		•
6A10(E)	48	3'-10"	•	
8A01(E)	3	28'-2"		•
10A01(E)	2	12'-2"	•	
10A02	2	15'-8"	•	
10A03(E)	2	14'-1"	•	
10A04	2	17'-7"	•	

ESTIMATED QUANTITIES

Item	Unit	Total
Reinforcing Steel	Lb.	1061.64
Epoxy Coated Reinforcing Steel	Lb.	2424.95

Note: All reinforcement bar shall conform to the requirement of A.S.T.M. Grade 60.
Concrete Quantities included in Bill of Material Sheet 305.

DESIGNED M.M. C'K'D. M.M.
DRAWN T.F. C'K'D. G.R.
TRACED MLB C'K'D. G.R.

APPROVED FOR CONSTRUCTION
W. B. ABBOTT
Assistant Engineer of Bridge Design 11-2-81

Figg and Muller Engineers Inc.
Consulting Engineers
Tallahassee, Florida 32301

ABUTMENT DIAPHRAGM BILL OF MATERIAL

INDIANA STATE HIGHWAY COMMISSION

LAKE COUNTY - RAMP:- B SECTION:-
SCALE:- N.T.S. DATE:- July 29, 1981
SUBMITTED FOR APPROVAL Eugene C. Figg Jr.
DRAWING:- OF SHEET:- 308 OF
PROJECT:- MM 220-1(8)
CONTRACT NO. B-12752
BRIDGE FILE:- 912-45-2546 RWN

EUGENE C. FIGG JR. REGISTERED No 18543 STATE OF INDIANA PROFESSIONAL ENGINEER