PIER 203 DIAPHRAGM

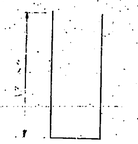
BAR BENDING DIAGRAMS

NOTES: Number preceding letter denotes bar size.
All dimensions are out to out.
All bar bending pin diameters shall be in accordance with AASHTO specifications.

PIER DIAPHRAGM REINFORCEMENT

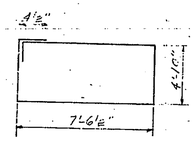
bar	a	b
4FC2	4'-4"	7'-4"
4FC3	7'-5½"	7'-2"
4FC4	4'-5"	7'-4"
4FC5	4'-4½"	7'-4"
4FC6	4'-4"	7'-2"
4FC7	4'-3½"	7'-2"
4FC8	4'-3"	7'-4"
4FC9	4'-9"	7'-4"
4F22(E)	4'-4"	3'-2"
4F23(E)	7'-6½"	5'-2"
4F24(E)	4'-5"	3'-2"
4F25(E)	4'-4½"	5'-2"
4F26(E)	4'-4"	3'-2"
4F27(E)	4'-3½"	3'-2"
4F28(E)	4'-5"	7'-4"
4F29(E)	7'-4"	3'-2"

4F1C



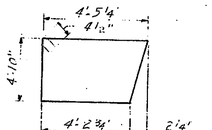
11PC6(a)

4FC2 thur 4FC9, 4F22E, thur 4F29E

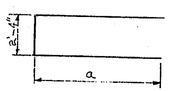


4F11

bar	a
4F13	2'-8"
4F15	4'-6"
4F16	5'-10"
4F17	6'-0"
4F18	7'-2"

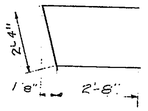


4F12

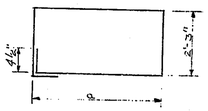


4F13, 4F15, 4F16 thur 4F18

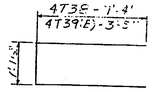
bar	a
4F19(E)	4'-10"
4F20(E)	3'-4"
4F21(E)	1'-10"



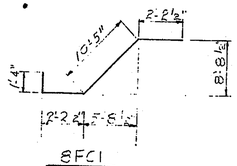
4F14



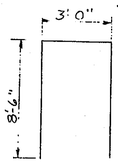
4F19(E) 4F20(E), 4F21(E)



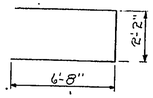
4T38, 4T39(E)



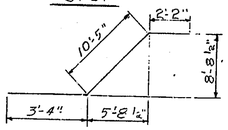
8FC1



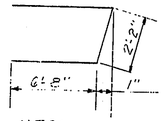
11F01 (E)



11F04



8F02



11F05

BILL OF MATERIAL

Bar	No.	Length	Bent	Str.
4FC1	2	28'-0"	•	
4FC2	5	[illegible]	•	
4FC3	5	[illegible]	•	
4FC4	1	19'-1"	•	
4FC5	1	19'-1"	•	
4FC6	1	19'-1"	•	
4FC7	1	19'-0"	•	
4FC8	1	18'-11"	•	
4FC9	10	19'-5"	•	
4F10	7	19'-1"	•	
4F11	7	25'-6"	•	
4F12	7	19'-1"	•	
4F13	4	7'-8"	•	
4F14	4	7'-8"	•	
4F15	4	11'-4"	•	
4F16	4	12'-0"	•	
4F17	4	14'-1"	•	
4F18	4	16'-8"	•	
4F19(E)	4	14'-11"	•	
4F20(E)	4	11'-11"	•	
4F21(E)	4	8'-11"	•	
4F22(E)	5	10'-8"	•	
4F23(E)	5	13'-11"	•	
4F24(E)	1	10'-9"	•	
4F25(E)	1	10'-9"	•	
4F26(E)	1	10'-8"	•	
4F27(E)	1	10'-8"	•	
4F28(E)	1	10'-7"	•	
4F29(E)	10	11'-1"	•	
4F30	104	5'-6"		•
4F31	14	8'-0"		•
4T38	5	15'-10"	•	
4T39(E)	5	8'-0"	•	
8F01	8	16'-2"	•	
8F02	8	15'-11"	•	
11F01(E)	24	20'-0"	•	
11F02	4	27'-0"		•
11F03(E)	4	32'-6"		•
11F04	1	15'-6"	•	
11F05	1	15'-7"	•	
11P06(a)	24	30'-8"	•	

ESTIMATED QUANTITIES

Item	Unit	Total
Superstructure Concrete	Cu.Yd.	**
Reinforcing Steel	Lb.	6853.87
Reinforcing Steel (Epoxy Coated)	Lb.	3555.00

NOTES: All reinforcing bars shall conform to the requirements of ASTM Grade 60.
Minimum compressive strength of superstructure conc. shall be 3,500 p.s.i.

** Concrete quantities included in Bill of Materials Sheets No. 116 & 117.

10-20-81 Revision: Estimate of Quantities

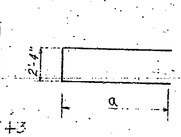
DESIGNED	M.M.	C'K'D.	M.M.
DRAWN	M.L.B.	C'K'D.	G.R.
TRACED	M.L.B.	C'K'D.	G.R.

PIER 204 DIAPHRAGM

BAR BENDING DIAGRAMS

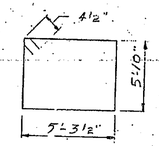
PIER DIAPHRAGM REINFORCEMENT

bar	a
4F41	3'-6"
4F42	7'-9"
4F43	7'-2"



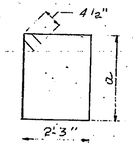
4F41 4F42, 4F43

11P05(a)

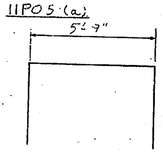


4F40

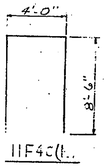
bar	a
4F44(E)	4'-8½"
4F45(E)	3'-10"
4F46(E)	3'-0"
4F47(E)	2'-2"
4F48(E)	1'-6"



4F44(E) thur 4F48(E)

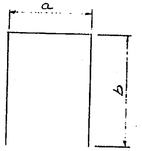


4F49(E)

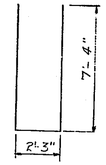


11F40(E)

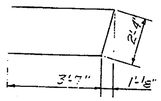
bar	a	b
4F53(E)	5'-4½"	3'-2"
4F54	5'-4½"	7'-4"
4F55(E)	5'-4	3'-2"
4F56	5'-4"	7'-4"
4F57(E)	5'-3"	3'-2"
4F58	5'-3"	7'-4"
4F59(E)	5'-2"	3'-2"
4F60	5'-2"	7'-4"



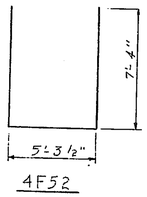
4F53(E) thur 4F60



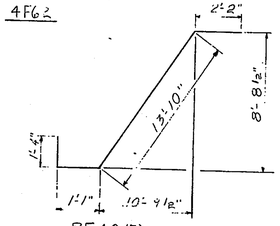
4F50



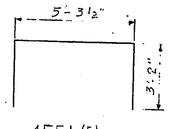
4F62



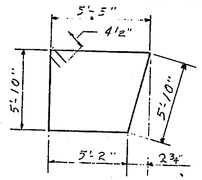
4F52



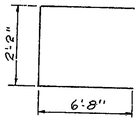
8F40(E)



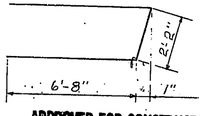
4F51(E)



4F61



11F41



BILL OF MATERIAL

Bar	No.	Length	Bent	Str.
4F40	7	23'-0"	•	
4F41	4	9'-4"	•	
4F42	4	17'-10"	•	
4F43	4	13'-1"	•	
4F44(E)	2	14'-8"	•	
4F45(E)	2	12'-11"	•	
4F46(E)	2	11'-3"	•	
4F47(E)	2	9'-7"	•	
4F48(E)	1	8'-5"	•	
4F49(E)	8	12'-1"	•	
4F50	8	16'-11"	•	
4F51(E)	8	11'-8"	•	
4F52	8	20'-0"	•	
4F53(E)	2	11'-9"	•	
4F54	2	20'-1"	•	
4F55(E)	2	11'-8"	•	
4F56	2	20'-0"	•	
4F57(E)	2	11'-7"	•	
4F58	2	19'-11"	•	
4F59(E)	2	11'-6"	•	
4F60	2	19'-10"	•	
4F61	7	23'-1"	•	
4F62	4	9'-6"	•	
8F40(E)	8	18'-5"	•	
11F40(E)	16	21'-0"	•	
11F41	1	15'-6"	•	
11F42	1	15'-7"	•	
11F43	4	19'-2"		•
11F44	4	24'-6"		•
11P05(a)	16	31'-8"	•	

ESTIMATED QUANTITIES

Item	Unit	Total
Superstructure Conc.	Cu.Yd.	**
Reinforcing Steel	Lb.	4437.43
Reinforcing Steel (Epoxy Coated)	Lb.	2437.79

APPROVED FOR CONSTRUCTION
W. B. Abbott
W. B. ABBOTT
Assistant Engineer of Bridge Design
9-17-81

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

PIER DIAPHRAGM BAR LIST UNIT III + IV

INDIANA STATE HIGHWAY COMMISSION

LAKE COUNTY - RAMP:- A SECTION:-
SCALE:- N.T.S. DATE:- June 29, 1981
SUBMITTED FOR APPROVAL Eugene C. Figg Jr.
DRAWING:- OF SHEET:- 131 OF
PROJECT:- MM 220-1 (8)
CONTRACT NO. B-12752
BRIDGE FILE:- 912-45-2546 RWX

EUGENE C. FIGG JR. No. 3996 STATE OF FLORIDA PROFESSIONAL ENGINEER