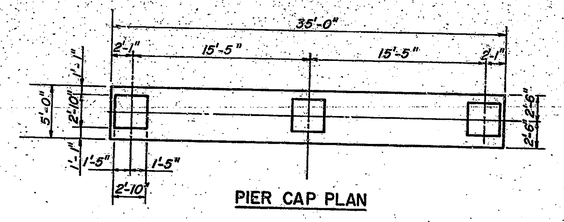
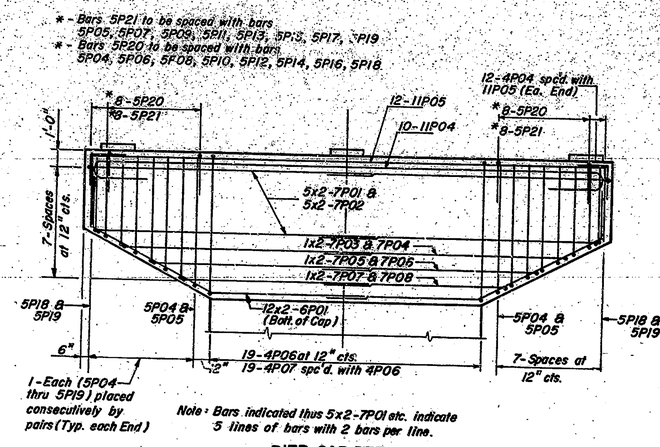
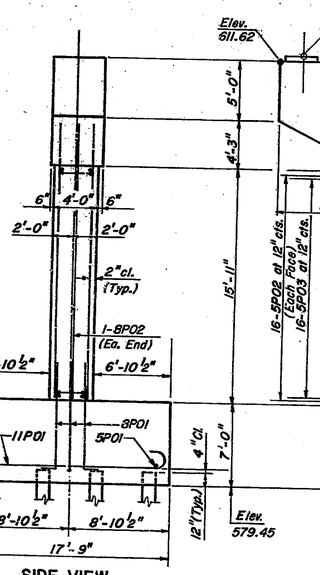


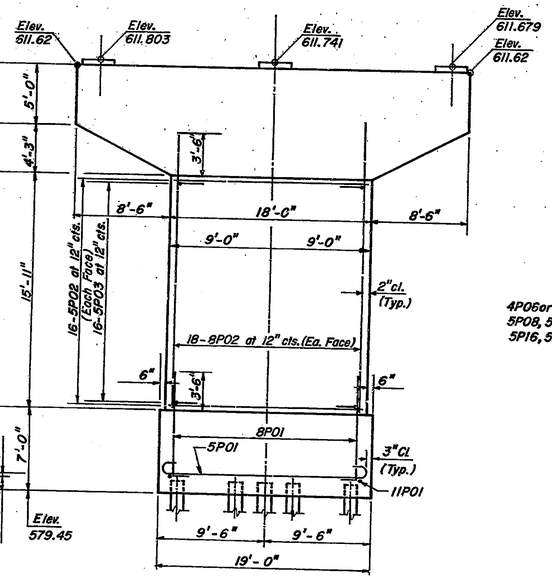
PIER CAP PLAN



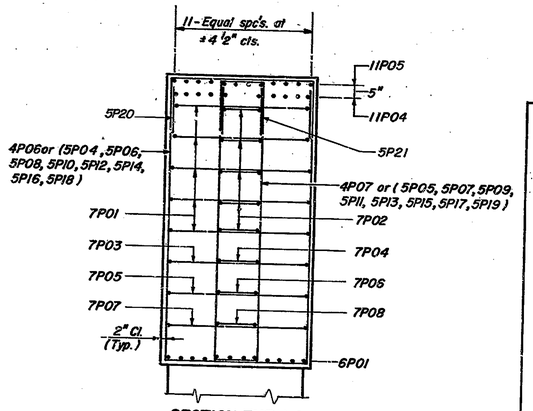
PIER CAP DETAIL



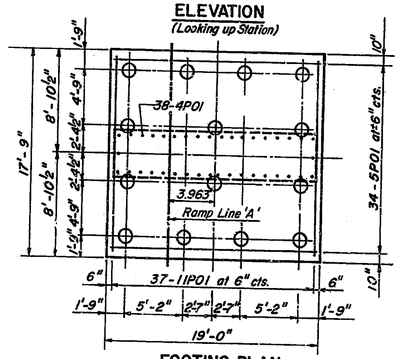
SIDE VIEW



ELEVATION
(Looking up Station)



SECTION THRU CAP



FOOTING PLAN

NOTE: All reinforcement bars shall conform to the requirements of ASTM, Grade 60.

Minimum compressive strength of both Footing and Substructure Concrete shall be 4,000 p.s.i.

PILE DATA

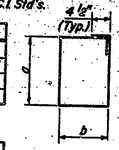
TYPE: High Capacity (14"ø Steel Encased Concrete)
ESTIMATED LENGTH: 85'
NUMBER REQUIRED: 14

APPROVED FOR CONSTRUCTION
M. B. Abbott 5-18-81

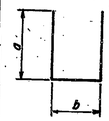
BAR BENDING DIAGRAMS

NOTES: Numbers preceding letter denotes bar size.
All dimension are out to out.
All bar bending pin diameters shall be in accordance with A.C.I. Std's.

Bar	a	b
4P06	9'-0"	4'-8"
4P07	9'-0"	1'-4½"

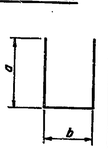


Bar	a	b
5P03	2'-0"	3'-6"
5P04	8'-5"	4'-8"
5P05	8'-5"	1'-5½"
5P06	7'-11"	4'-8"
5P07	7'-11"	1'-5½"
5P08	7'-5"	4'-8"
5P09	7'-5"	1'-5½"
5P10	6'-11"	4'-8"
5P11	6'-11"	1'-5½"
5P12	6'-5"	4'-8"
5P13	6'-5"	1'-5½"
5P14	5'-11"	4'-8"
5P15	5'-11"	1'-5½"
5P16	5'-5"	4'-8"
5P17	5'-5"	1'-5½"
5P18	4'-11"	4'-8"
5P19	4'-11"	1'-5½"
5P20	1'-8"	4'-3"
5P21	2'-5"	1'-5½"

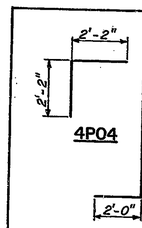


5P03 THRU 5P21

Bar	a	b
7P01	18'-9"	4'-7"
7P02	18'-9"	1'-3"
7P03	16'-9"	4'-7"
7P04	16'-9"	1'-3"
7P05	14'-9"	4'-7"
7P06	14'-9"	1'-3"
7P07	12'-9"	4'-7"
7P08	12'-9"	1'-3"

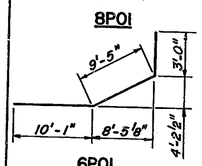


7P01 THRU 7P08

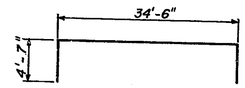


4P04

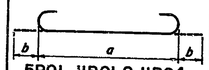
8P01



6P01



11P05



5P01, 11P01 & 11P04

Bar	a	b
5P01	18'-6"	7"
11P01	17'-3"	1'-7"
11P04	34'-6"	4'-4"

BILL OF MATERIAL

Bar	No.	Length	Bent	Str.
4P04	24	4'-4"	●	
4P06	10	28'-1"	●	
4P07	19	21'-6"	●	
5P01	34	19'-8"	●	
5P02	32	17'-8"		●
5P03	32	7'-6"	●	
5P04	2	21'-6"	●	
5P05	2	18'-4"	●	
5P06	2	20'-6"	●	
5P07	2	17'-4"	●	
5P08	2	19'-6"	●	
5P09	2	16'-4"	●	
5P10	2	18'-6"	●	
5P11	2	15'-4"	●	
5P12	2	17'-6"	●	
5P13	2	14'-4"	●	
5P14	2	16'-6"	●	
5P15	2	13'-4"	●	
5P16	2	15'-6"	●	
5P17	2	12'-4"	●	
5P18	2	14'-6"	●	
5P19	2	11'-4"	●	
5P20	16	7'-7"	●	
5P21	16	6'-4"	●	
6P01	24	22'-6"	●	
7P01	10	42'-1"	●	
7P02	10	38'-9"	●	
7P03	2	38'-1"	●	
7P04	2	34'-9"	●	
7P05	2	34'-1"	●	
7P06	2	30'-9"	●	
7P07	2	30'-1"	●	
7P08	2	26'-9"	●	
8P01	38	11'-2"	●	
8P02	38	19'-5"		●
11P01	37	20'-5"	●	
11P04	10	43'-2"	●	
11P05	12	43'-8"	●	

ESTIMATED QUANTITIES

Item	Unit	Total
Reinforcing Steel	Lb.	18,469
Substructure Conc.	Cu. Yd.	95.8
Footing Conc.	Cu. Yd.	86.9
High Capacity Piles	Lin. Ft.	1,190

DESIGNED DOH C'K'D. HM
DRAWN HGS GR C'K'D. GQ
TRACED HGS C'K'D. GQ

Figg and Muller Engineers Inc.
424 North Calhoun Street
Tallahassee, Florida 32301

PIER 201 DETAILS

INDIANA STATE HIGHWAY COMMISSION

LAKE COUNTY - RAMP:- A SECTION:-
SCALE:- N.T.S. DATE:- MARCH 27, 1981
SUBMITTED FOR APPROVAL Eugene C. Figg Jr.
DRAWING:- OF SHEET:- 10 OF
PROJECT:- MM 220-1(2)
CONTRACT NO. B-12752
BRIDGE FILE:- 912-45-2546-RWX

EUGENE C. FIGG JR. REGISTERED 11543 STATE OF INDIANA PROFESSIONAL ENGINEER