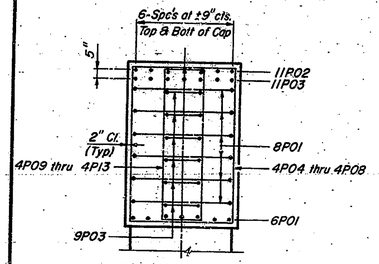
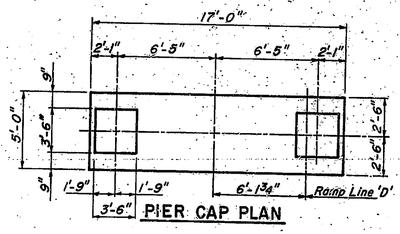
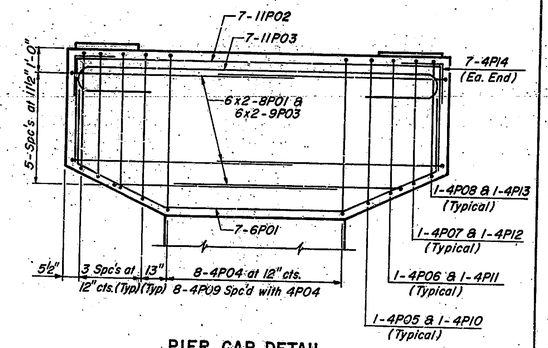


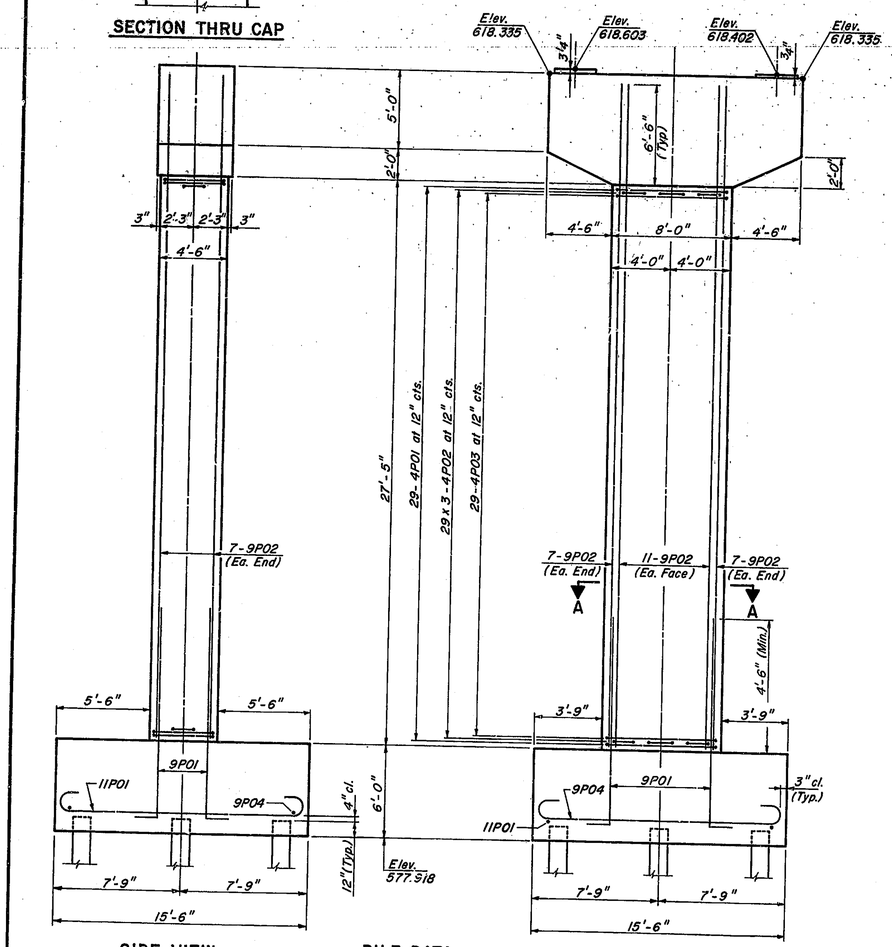
SECTION THRU CAP



PIER CAP PLAN



PIER CAP DETAIL

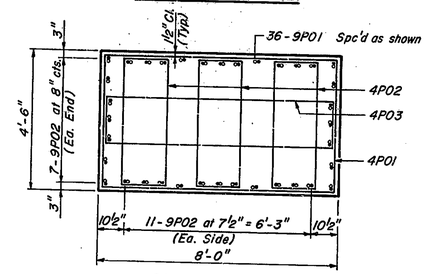


SIDE VIEW

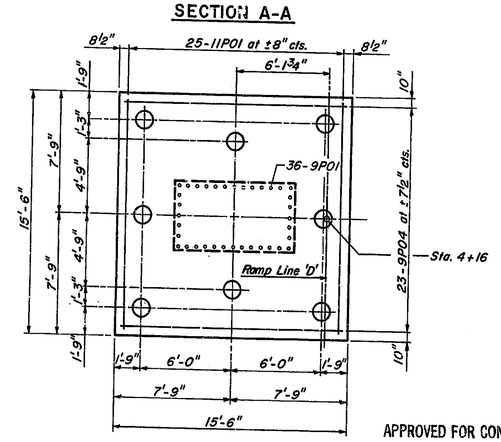
PILE DATA

TYPE: High Capacity (14" Ø Steel Encased Conc.)
ESTIMATED LENTGH: 85'
NUMBER REQUIRED: 8

ELEVATION
(Looking Up Station)



SECTION A-A

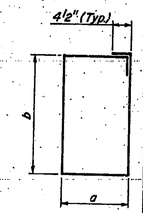


FOOTING PLAN

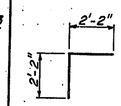
BAR BENDING DIAGRAMS

NOTES: 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.

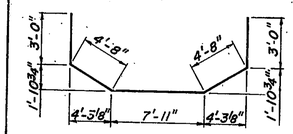
Bar	a	b
4P01	4'-3"	7'-9"
4P02	1'-6"	4'-3"
4P03	1'-7"	7'-9"
4P04	4'-8"	6'-6"
4P05	4'-8"	6'-2½"
4P06	4'-8"	5'-9"
4P07	4'-8"	5'-4"
4P08	4'-8"	4'-10½"
4P09	1'-9"	6'-8"
4P10	1'-9"	6'-2"
4P11	1'-9"	5'-8½"
4P12	1'-9"	5'-3½"
4P13	1'-9"	4'-10"



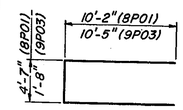
4P01 thru 4P13



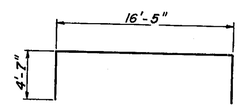
4P14



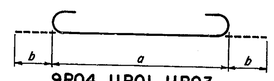
6P01



8P01 & 9P03

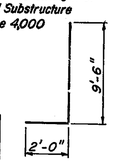


11P02



9P04, 11P01, 11P03

Bar	a	b
9P04	15'-0"	1'-3"
11P01	15'-0"	1'-7"
11P03	16'-5"	4'-4"



9P01

BILL OF MATERIAL

Bar	No.	Length	Bent	Str.
4P01	29	24'-9"	●	
4P02	87	12'-3"	●	
4P03	29	19'-5"	●	
4P04	8	23'-7"	●	
4P05	2	22'-6"	●	
4P06	2	21'-7"	●	
4P07	2	20'-9"	●	
4P08	2	19'-10"	●	
4P09	8	17'-7"	●	
4P10	2	16'-7"	●	
4P11	2	15'-8"	●	
4P12	2	14'-10"	●	
4P13	2	13'-11"	●	
4P14	14	4'-4"	●	
6P01	7	23'-3"	●	
8P01	12	24'-11"	●	
9P01	36	11'-8"	●	
9P02	36	33'-11"		●
9P03	12	22'-6"	●	
9P04	23	17'-6"	●	
11P01	25	18'-2"	●	
11P02	7	25'-7"	●	
11P03	7	25'-1"	●	

ESTIMATED QUANTITIES

Item	Unit	Total
Reinforcing Steel	Lb.	15,208
Substructure Conc.	Cu. Yd.	51.0
Footing Conc.	Cu. Yd.	53.1
High Capacity Piles	Lin. ft.	680

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.

DESIGNED H.B./M.M. C'K'D M.M.
DRAWN R.E.T. C'K'D G.R.
TRACED R.E.T. C'K'D G.R.

APPROVED FOR CONSTRUCTION
W. B. Abbott 5-18-81
W. B. ABBOTT
Assistant Engineer of Bridge Design

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

PIER 103 DETAILS

INDIANA STATE HIGHWAY COMMISSION

LAKE COUNTY-RAMP:-D SECTION:-
SCALE:- N.T.S. DATE:-MARCH 27, 1981
SUBMITTED FOR APPROVAL Eugene C. Figg Jr.
DRAWING:- OF SHEET:- 38 OF
PROJECT:- MM 220-1(8)
CONTRACT NO. B-12750
BRIDGE FILE:-912-45-2546 REX

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