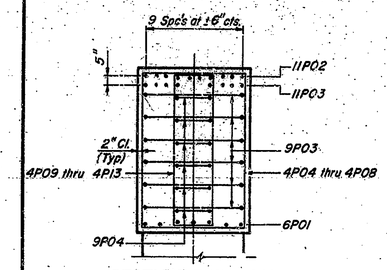
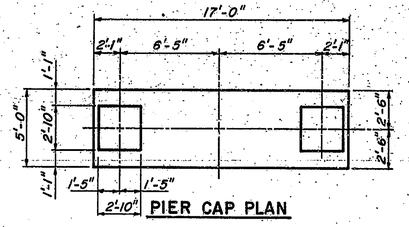
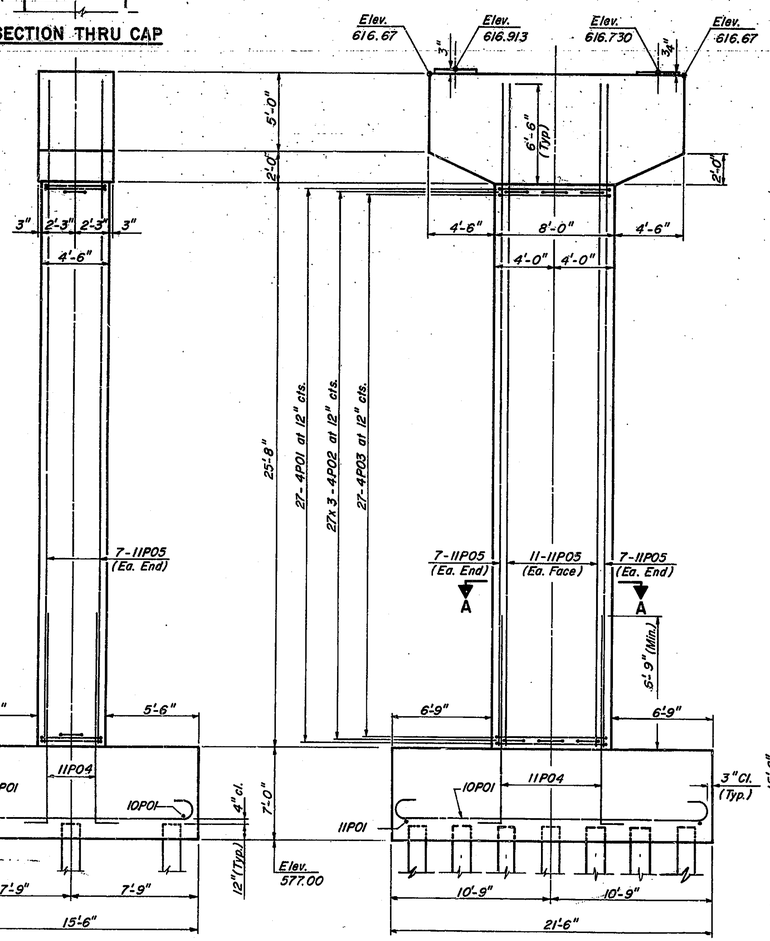


SECTION THRU CAP



PIER CAP PLAN

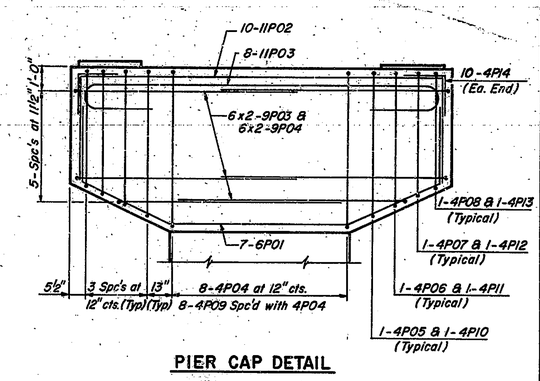


SIDE VIEW

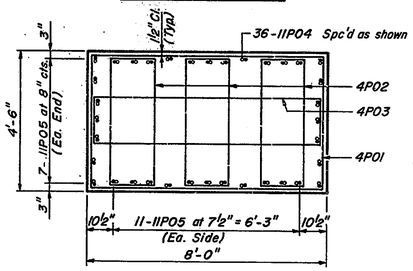
PILE DATA

TYPE: High Capacity (14" Ø Steel Encased Conc.)
ESTIMATED LENTGH: 85'
NUMBER REQUIRED: 11

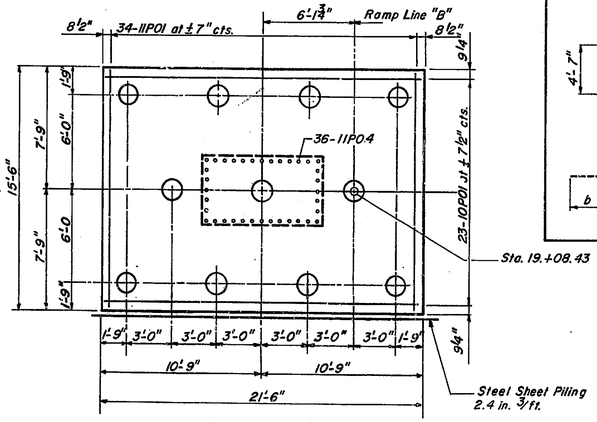
ELEVATION
(Looking Up Station)



PIER CAP DETAIL



SECTION A-A

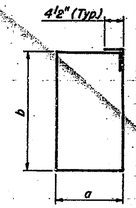


FOOTING PLAN

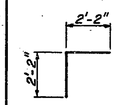
BAR BENDING DIAGRAMS

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.

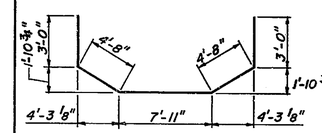
Bar	a	b
4P01	4'-3"	7'-9"
4P02	1'-6"	4'-3"
4P03	1'-7"	7'-9"
4P04	4'-8"	6'-9"
4P05	4'-8"	5'-2¾"
4P06	4'-8"	5'-9½"
4P07	4'-8"	5'-4"
4P08	4'-8"	4'-10¾"
4P09	2'-1"	6'-9"
4P10	2'-1"	6'-3"
4P11	2'-1"	5'-3¾"
4P12	2'-1"	5'-4¼"
4P13	2'-1"	4'-11"



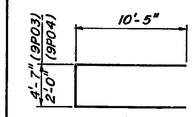
4P01 thru 4P13



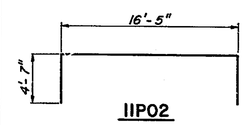
4P14



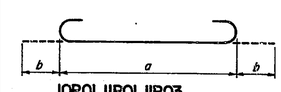
6P01



9P03 & 9P04



11P02



10P01, 11P01, 11P03

Bar	a	b
10P01	21'-0"	1'-5"
11P01	15'-0"	1'-7"
11P03	16'-5"	4'-4"

BILL OF MATERIAL

Bar	No.	Length	Bent	Str.
4P01	27	24'-9"	●	
4P02	81	12'-3"	●	
4P03	27	19'-5"	●	
4P04	8	23'-7"	●	
4P05	2	22'-7"	●	
4P06	2	21'-8"	●	
4P07	2	20'-9"	●	
4P08	2	19'-11"	●	
4P09	8	18'-5"	●	
4P10	2	17'-5"	●	
4P11	2	16'-6"	●	
4P12	2	15'-7"	●	
4P13	2	14'-9"	●	
4P14	20	4'-4"	●	
6P01	7	23'-3"	●	
9P03	12	25'-5"	●	
9P04	12	22'-10"	●	
10P01	23	23'-10"	●	
11P01	34	12'-2"	●	
11P02	10	25'-7"	●	
11P03	8	25'-1"	●	
11P04	36	14'-7"	●	
11P05	36	32'-3"		●

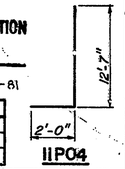
ESTIMATED QUANTITIES

Item	Unit	Total
Reinforcing Steel	Lb.	21177.61
Substructure Conc.	Cu. Yd.	52.75
Footing Conc.	Cu. Yd.	86.40
High Capacity Piles	Lin. ft.	935.0
Steel Sheet Piling	Sq. ft.	343.0

Note: All reinforcement bar shall conform to the requirement of A.S.T.M., Grade 60. The minimum compressive strength of both Footing & Substructure concrete shall be 4,000 p.s.i.

APPROVED FOR CONSTRUCTION

W. E. Abbott
W. E. ABBOTT
Assistant Engineer of Bridge Design 9-17-81



11P04

DESIGNED M.M. C'K'D M.M.
DRAWN RET C'K'D GR
TRACED MB C'K'D GR

10-20-81 Revision: Estimate of Quantities

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

PIER 303 DETAILS

INDIANA STATE HIGHWAY COMMISSION

LAKE COUNTY - RAMP:- B SECTION:-
SCALE:- N.T.S. DATE:- July 21, 1981
SUBMITTED FOR APPROVAL Eugene C. Figg Jr.
DRAWING:- OF SHEET:- 322 OF
PROJECT:- MM 220-1(8)
CONTRACT NO. B-12750
BRIDGE FILE:- 912-45-2546 RWN

REGISTERED PROFESSIONAL ENGINEER STATE OF INDIANA