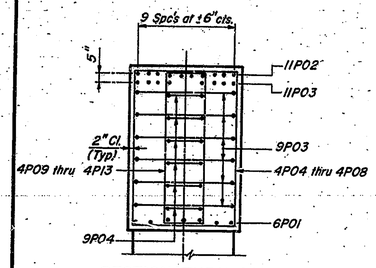
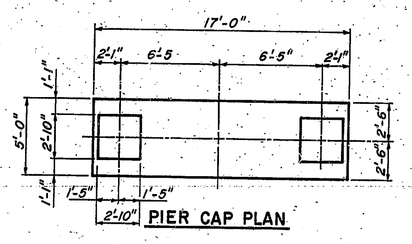
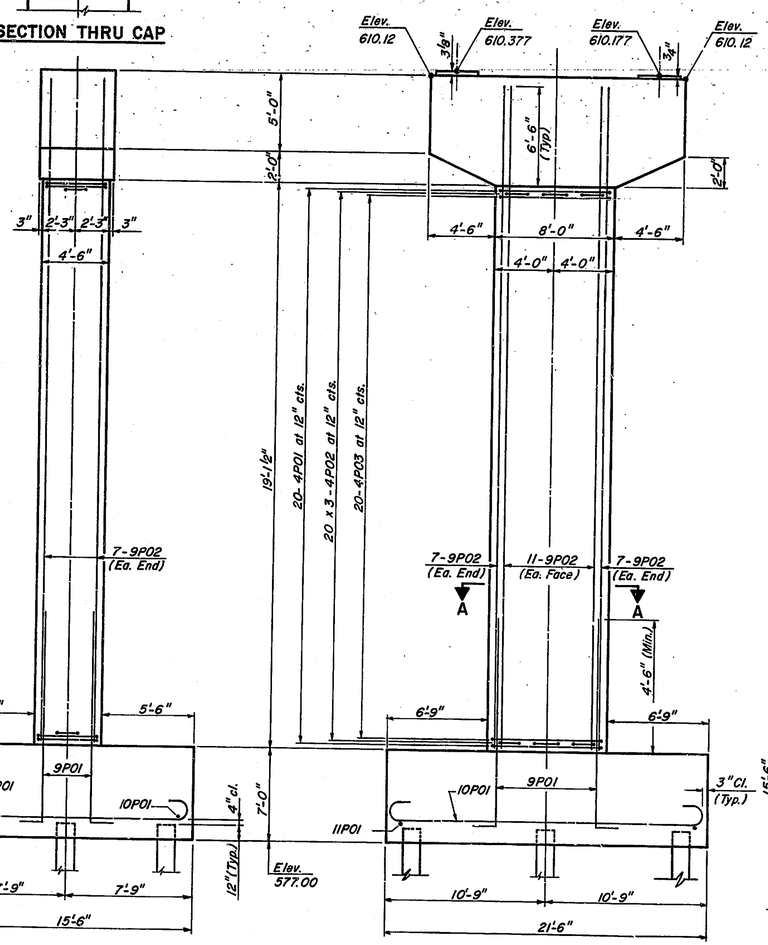


SECTION THRU CAP



PIER CAP PLAN

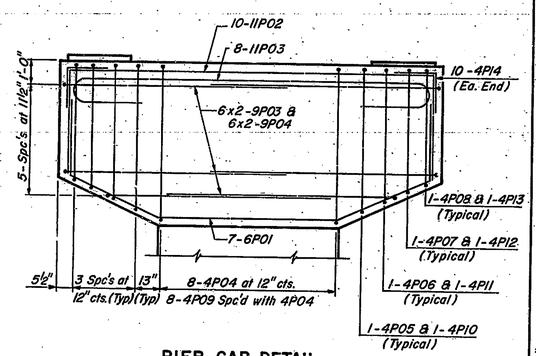


SIDE VIEW

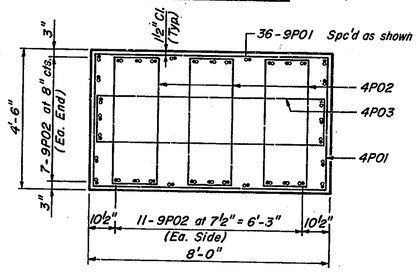
PILE DATA

TYPE: High Capacity (14" Ø Steel Encased Conc.)
ESTIMATED LENTGH: 85'
NUMBER REQUIRED: 9

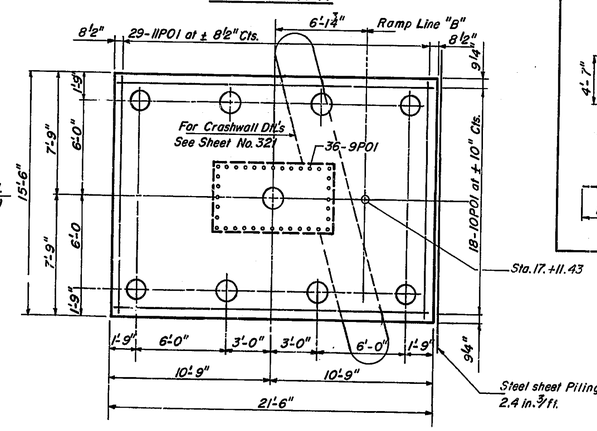
ELEVATION
(Looking Up Station)



PIER CAP DETAIL



SECTION A-A

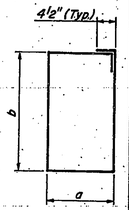


FOOTING PLAN

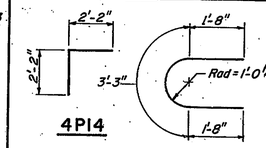
BAR BENDING DIAGRAMS

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.

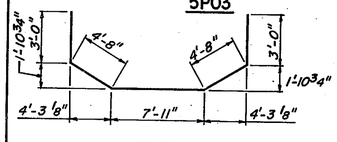
Bar	a	b
4P01	4'-3"	7'-9"
4P02	1'-6"	4'-3"
4P03	1'-7"	7'-9"
4P04	4'-8"	6'-9"
4P05	4'-8"	6'-2 3/4"
4P06	4'-8"	5'-9 1/2"
4P07	4'-8"	5'-4"
4P08	4'-6"	4'-10 3/4"
4P09	2'-1"	6'-9"
4P10	2'-1"	6'-3"
4P11	2'-1"	5'-9 3/4"
4P12	2'-1"	5'-4 1/4"
4P13	2'-1"	4'-11"



4P01 thru 4P13

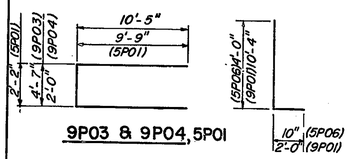


4P14

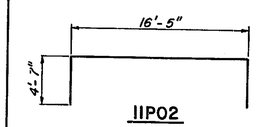


5P03

6P01

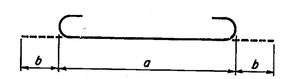


9P03 & 9P04, 5P01



5P06
9P01

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	20	24'-9"	●	
4P02	60	12'-3"	●	
4P03	20	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'-7"	●	
4P12	2	15'-8"	●	
4P13	2	14'-9"	●	
4P14	20	4'-4"	●	
5P01	38	21'-6"	●	
5P02	14	18'-0"		●
5P03	14	6'-7"	●	
5P04	6	9'-8"		●
5P05	2	15'-9"		●
5P06	32	4'-10"	●	
6P01	7	23'-3"	●	
9P01	36	12'-4"	●	
9P02	36	25'-8"		●
9P03	12	25'-5"	●	
9P04	12	22'-10"	●	
10P01	18	23'-10"	●	
11P01	29	18'-2"	●	
11P02	10	25'-7"	●	
11P03	8	25'-1"	●	

ESTIMATED QUANTITIES

Item	Unit	Total
Reinforcing Steel	Lb.	16969.95
Substructure Conc.	Cu. Yd.	61.85
Footing Conc.	Cu. Yd.	86.40
High Capacity Piles	Lin. ft.	765.0
Steel Sheet Piling	Sq. ft.	222.0

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 4000 p.s.i.

APPROVED FOR CONSTRUCTION
M. L. ASBOTT
Chief Engineer of Bridge Design
9-17-81

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.
4234 Capital Circle
Tallahassee Florida 32301

PIER 302 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:- 320 OF
PROJECT:- MM 220-1(8)
CONTRACT NO. B-12750
BRIDGE FILE:- 912-45-2546 RWN

EUGENE C. FIGG, JR. REGISTERED No. 18569 STATE OF INDIANA PROFESSIONAL ENGINEER