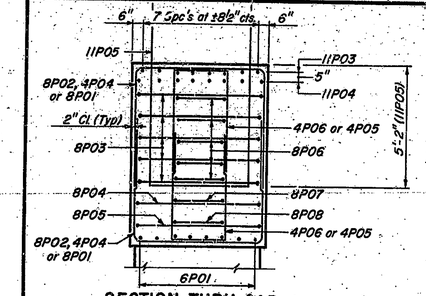
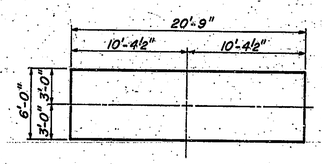
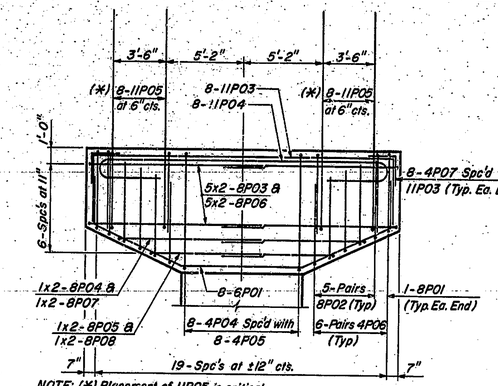


SECTION THRU CAP

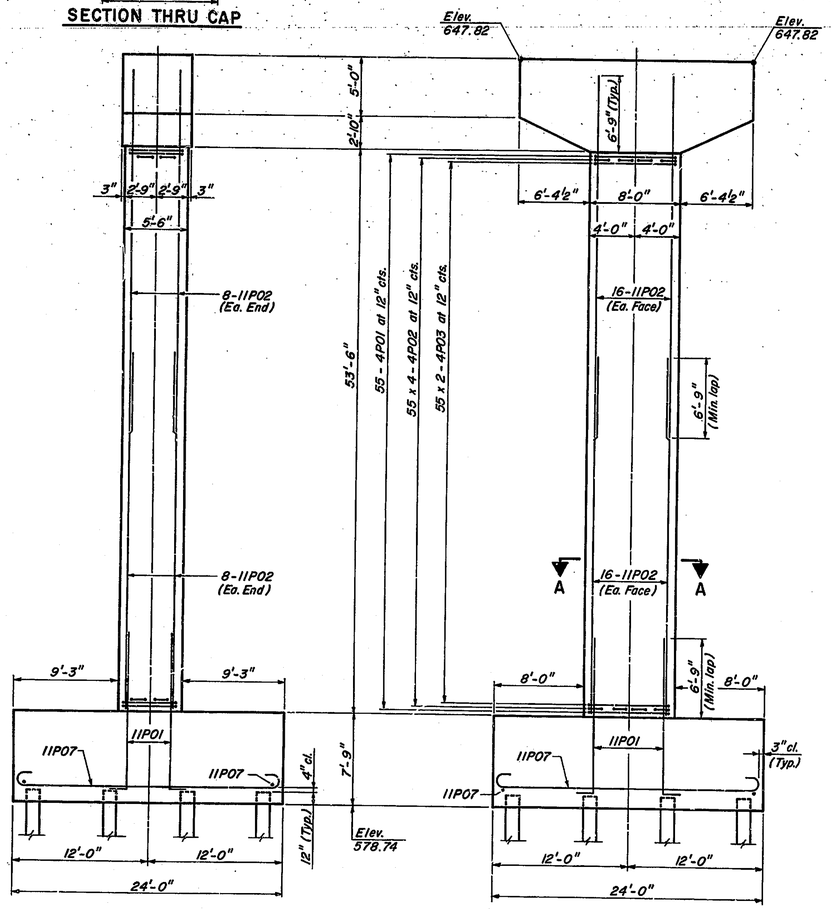


PIER CAP PLAN



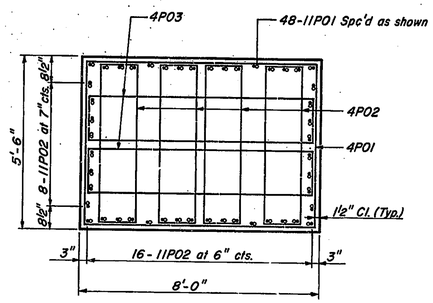
NOTE: (*) Placement of 11P05 is critical.
Adjust position of other reinforcement if bar interference is encountered.

PIER CAP DETAIL

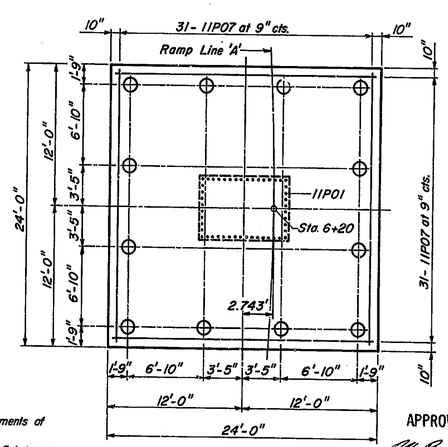


SIDE VIEW

ELEVATION
(Looking Up Station)



SECTION A-A

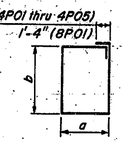


FOOTING PLAN

BAR BENDING DIAGRAMS

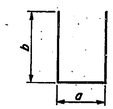
NOTES: Number preceding letter denotes bar size.
All dimension are out to out.
All bar bending pin diameters shall be in accordance with A.C.I. Standards.

Bar	a	b
4P01	5'-3"	7'-9"
4P02	1'-3"	5'-3"
4P03	1'-5"	7'-9"
4P04	5'-8"	7'-6"
4P05	2'-4½"	7'-6"
8P01	5'-8"	4'-11"

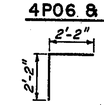


4P01 thru 4P05 & 8P01

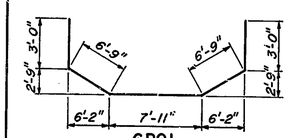
Bar	a	b
4P06	2'-4½"	4'-5"
8P02	5'-8"	5'-3"
8P03	5'-6"	11'-7"
8P04	5'-6"	9'-6"
8P05	5'-6"	7'-5"
8P06	2'-3½"	11'-7"
8P07	2'-3½"	9'-6"
8P08	2'-3½"	7'-5"



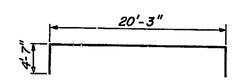
4P06 & 8P02 thru 8P08



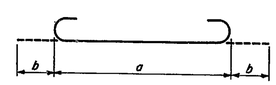
4P07



6P01

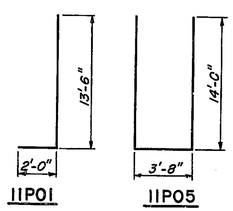


11P03



Bar	a	b
11P07	23'-6"	1'-7"
11P04	20'-3"	4'-4"

11P07 & 11P04



11P01 11P05

BILL OF MATERIAL

Bar	No.	Length	Bent	Str.
4P01	55	26'-9"	●	
4P02	220	13'-9"	●	
4P03	110	19'-1"	●	
4P04	8	27'-1"	●	
4P05	8	20'-6"	●	
4P06	24	11'-3"	●	
4P07	16	4'-4"	●	
6P01	8	27'-5"	●	
8P01	2	23'-10"	●	
8P02	20	16'-2"	●	
8P03	10	28'-8"	●	
8P04	2	24'-6"	●	
8P05	2	20'-4"	●	
8P06	10	25'-6"	●	
8P07	2	21'-4"	●	
8P08	2	17'-2"	●	
11P01	48	15'-6"	●	
11P02	96	33'-6"		●
11P03	8	29'-5"	●	
11P04	8	28'-11"	●	
11P05	16	31'-6"	●	
11P07	62	26'-8"	●	

ESTIMATED QUANTITIES

Item	Unit	Total
Reinforcing Steel	Lb.	41,889
Substructure Conc.	Cu. Yd.	119.3
Footing Conc.	Cu. Yd.	164.9
High Capacity Piles	Lin. ft.	1,020

PILE DATA

TYPE: High Capacity (14" Ø Steel Encased Conc.)
ESTIMATED LENTGH: 85'
NUMBER REQUIRED: 12

NOTES: All reinforcement bars shall conform to the requirements of ASTM Grade 60
Minimum compressive strength of both Footing and Substructure Concrete shall be 4000 psi

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.

REVISION 8/3/81 REINFORCING BAR IN PIER CAP.

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
Indianapolis, Indiana 46204

PIER 204 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:- 13 OF
PROJECT:- MM 220-1 (8)
CONTRACT NO. B-12750
BRIDGE FILE:- 912-45-2546 RWX

EUGENE C. FIGG JR. REGISTERED No 11543 STATE OF INDIANA PROFESSIONAL ENGINEER