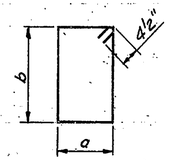
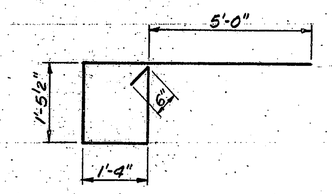
BAR BENDING DIAGRAMS

NOTE: Number preceding letter denotes bar size.
All dimensions are out to out.
All bar bending diagrams shall be in accordance with A.C.I. Standards.

Bar	a	b
4A01(E)	9"	2'-4"
4A06(E)	6'2"	2'-4"
4A08(E)	1'-3"	3'-10½"
4A09(E)	1'-3"	2'-8½"

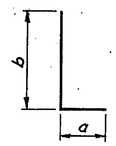


4A01(E), 4A06(E), 4A08(E), 4A09(E)



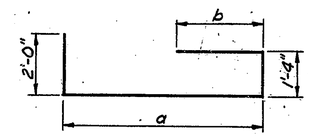
4A02(E)

Bar	a	b
4A04(E)	1'-8"	5'-6"
4A10(E)	1'-0"	8'-6"
4A11	8'-10"	5'-0"
6A06(E)	1'-0"	8'-6"



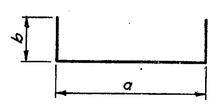
4A04(E), 4A10(E), 4A11, 6A06(E)

Bar	a	b
6A02(E)	5'-4"	2'-5"
6A03(E)	6'-2"	3'-3"
6A04(E)	7'-0"	4'-1"
6A05(E)	7'-10"	4'-11"

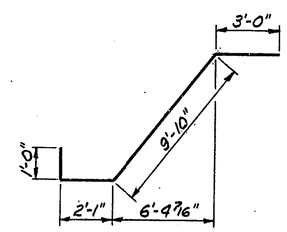


6A02(E), 6A03(E), 6A04(E), 6A05(E)

Bar	a	b
4A05(E)	13'-10"	1'-8"
4A12(E)	8'-6"	1'-0"
4A13(E)	8'-9"	1'-8"
5A01(E)	5'-0½"	3'-9"
5A02	5'-0½"	7'-1"
6A01(E)	9'-11"	2'-0"
6A07(E)	8'-9"	2'-0"
6A08(E)	1'-9"	2'-0"
6A10	6"	7'-0"
3A01	1'-1½"	6"



4A05(E), 4A12(E), 4A13(E), 5A01(E), 5A02, 6A01(E), 6A07(E), 6A08(E), 6A10, 3A01



6A09(E)

BILL OF MATERIAL

Bar	No.	Length	Bent	Str.
4A01(E)	30	6'-11"	•	
4A02(E)	34	11'-1"	•	
4A03(E)	5	28'-2"		•
4A04(E)	2	7'-2"	•	
4A05(E)	1	17'-2"	•	
4A06(E)	4	6'-6"	•	
4A07(E)	2	5'-4"		•
4A08(E)	2	11'-0"	•	
4A09(E)	2	8'-8"	•	
4A10(E)	6	9'-6"	•	
4A11	14	13'-10"	•	
4A12(E)	6	10'-6"	•	
4A13(E)	16	12'-1"	•	
4A14	48	10'-3"		•
4A15	24	16'-10"		
4C04(*)	36	9'-0"	•	
5A01(E)	22	12'-7"	•	
5A02	22	19'-3"	•	
6A01(E)	6	8'-11"	•	
6A02(E)	2	11'-1"	•	
6A03(E)	2	12'-9"	•	
6A04(E)	2	14'-3"	•	
6A05(E)	2	16'-1"	•	
6A06(E)	4	9'-6"	•	
6A07(E)	6	12'-9"	•	
6A08(E)	14	5'-9"	•	
6A09(E)	6	15'-11"	•	
6A10	12	14'-6"	•	
6C03(*)	56	3'-10"	•	
7A01	3	28'-0"		•
3A01	24	2'-2"	•	

ESTIMATED QUANTITIES

Item	Unit	Total
Reinforcing Steel	lbs.	2045.91
Reinforcing Steel Epoxy Coated	lbs.	1734.17

NOTE: (*) See Sheet No. 109
Concrete Quantities included in Bill of Material Sheet 107.

APPROVED FOR CONSTRUCTION

W. B. ABBOTT
Assistant Engineer of Bridge Design 11-2-81

DESIGNED	M.M.	CK'D	M.M.
DRAWN		CK'D	M.M.
TRACED		CK'D	M.M.

Pope and Muller Engineers Inc.

ABUTMENT DIAPHRAGM BAR LIST

INDIANA STATE HIGHWAY COMMISSION

LAKE COUNTY-RAMP:-D SECTION:-

SCALE:- N.T.S. DATE:- July 20, 1981

SUBMITTED FOR APPROVAL

DRAWING:- OF SHEET:- 112 OF

PROJECT:- NH 520-1(8)

CONTRACT NO. 8-[illegible]

BRIDGE FILE:- [illegible]