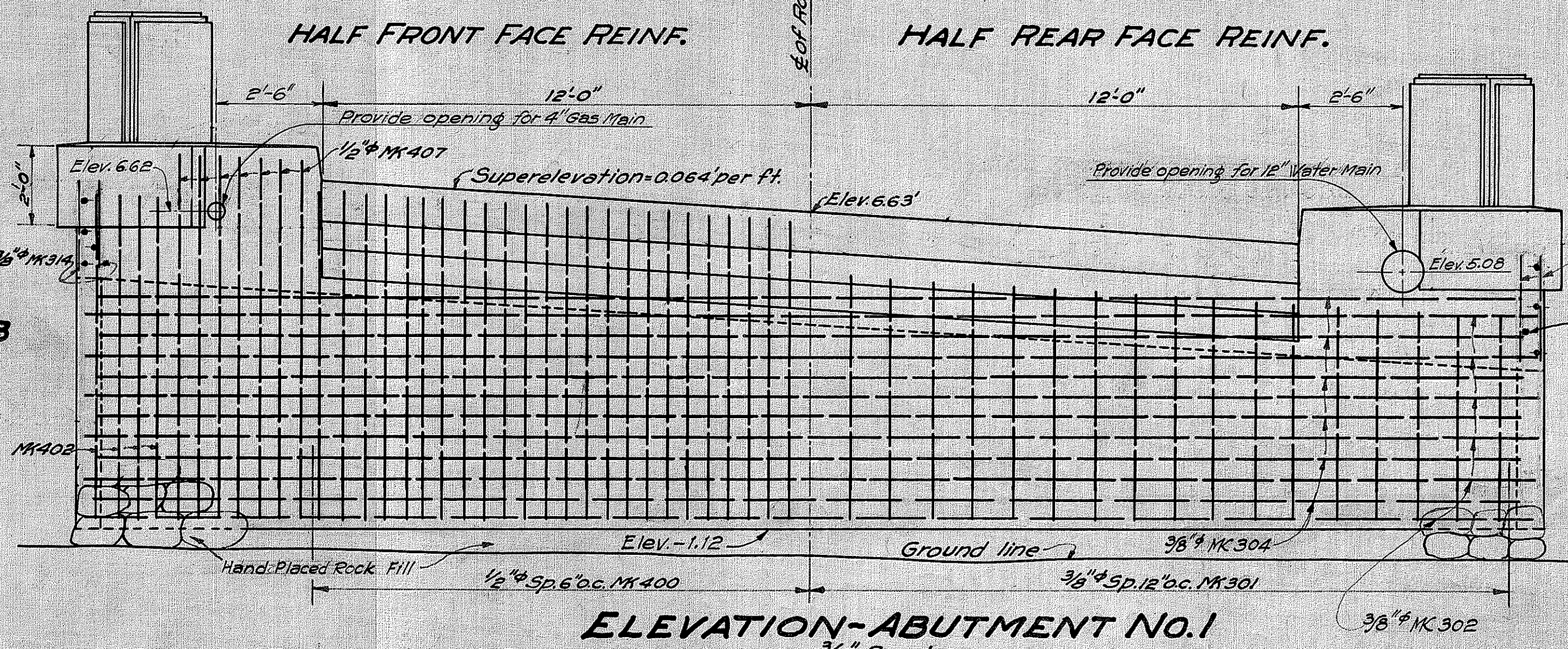
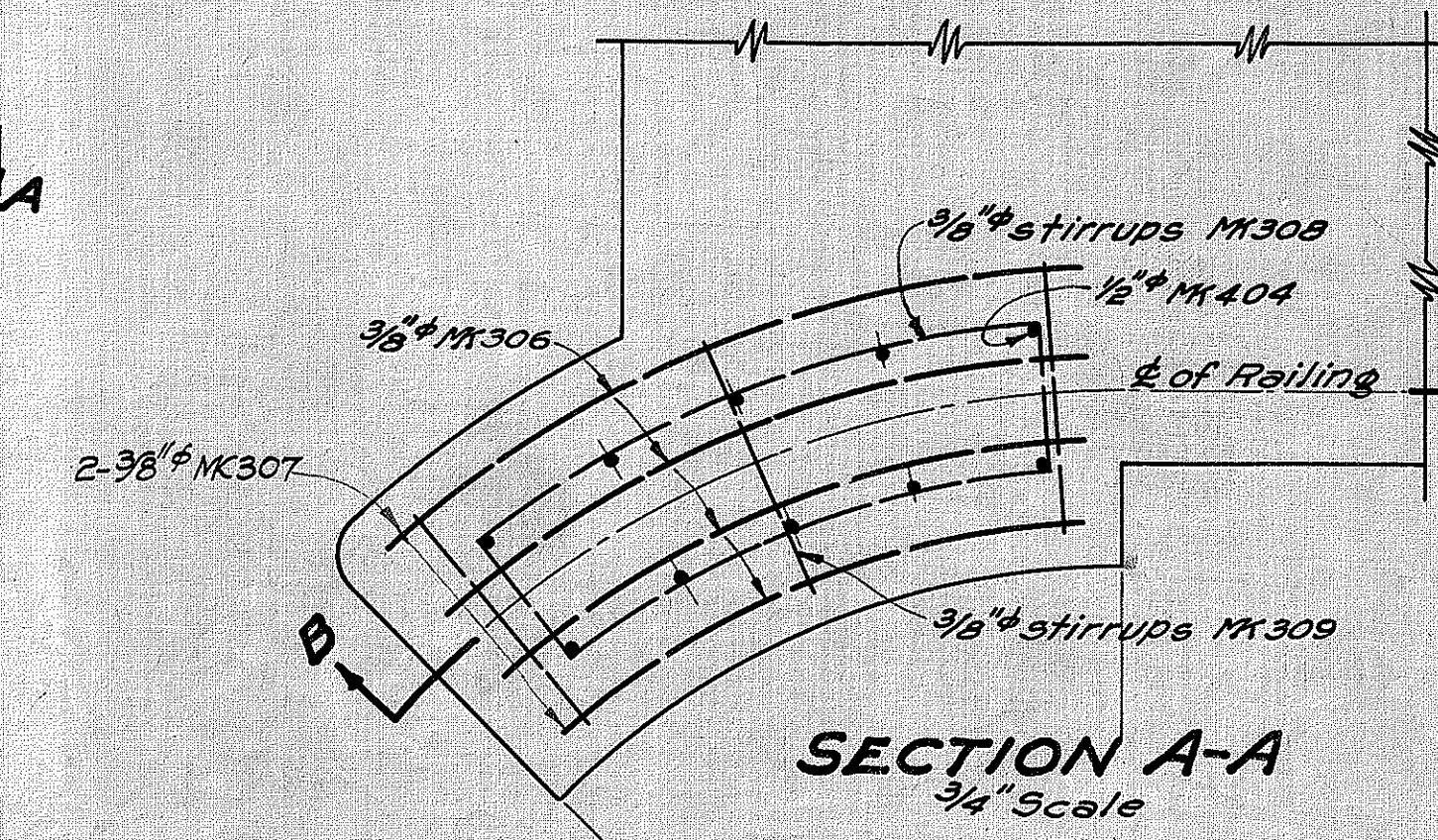
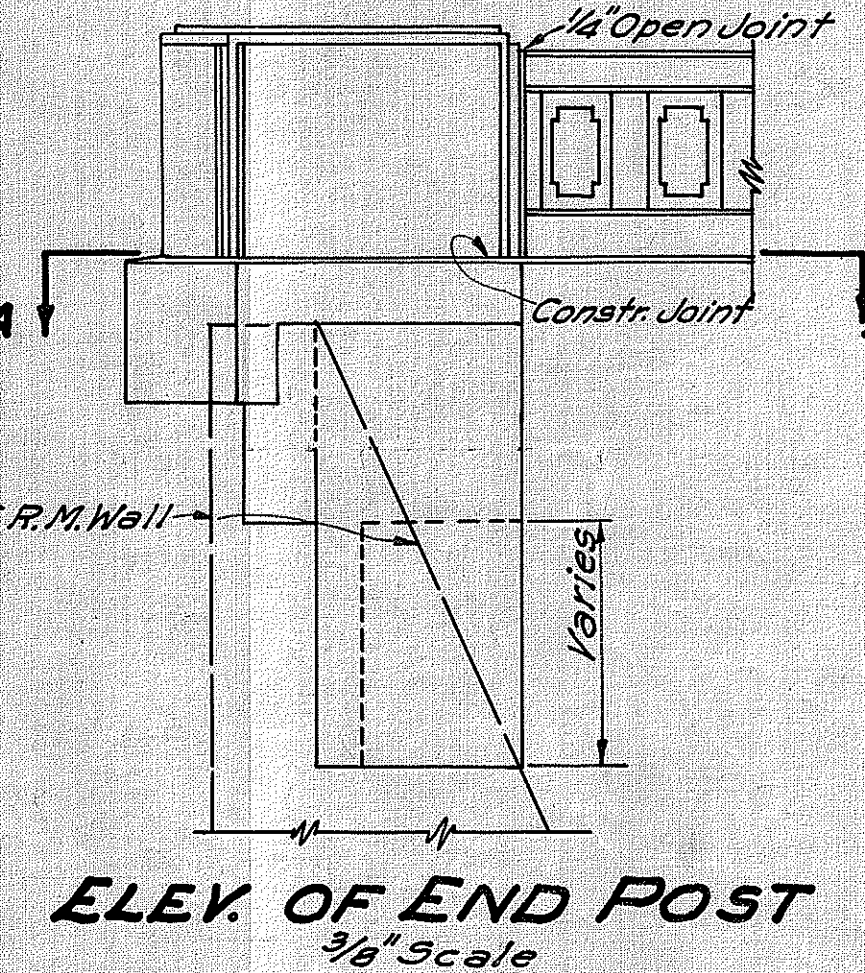
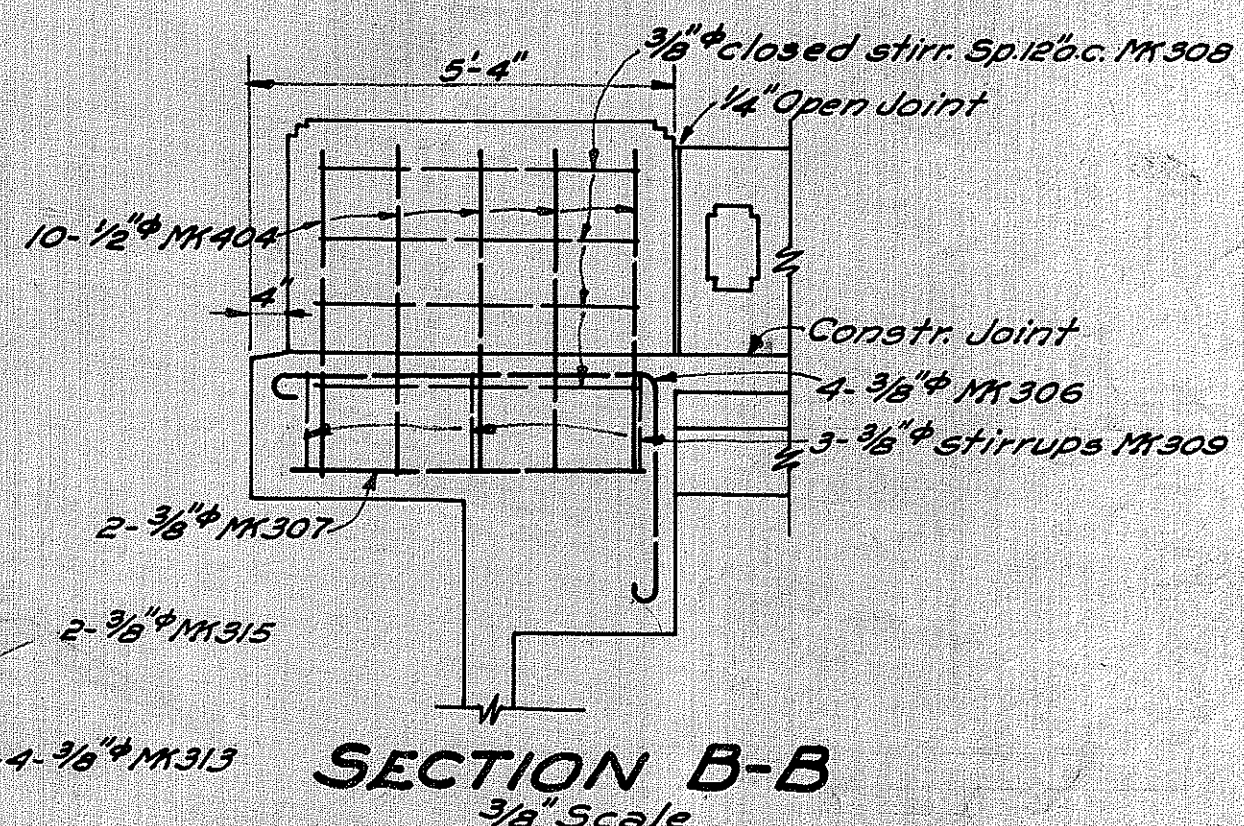
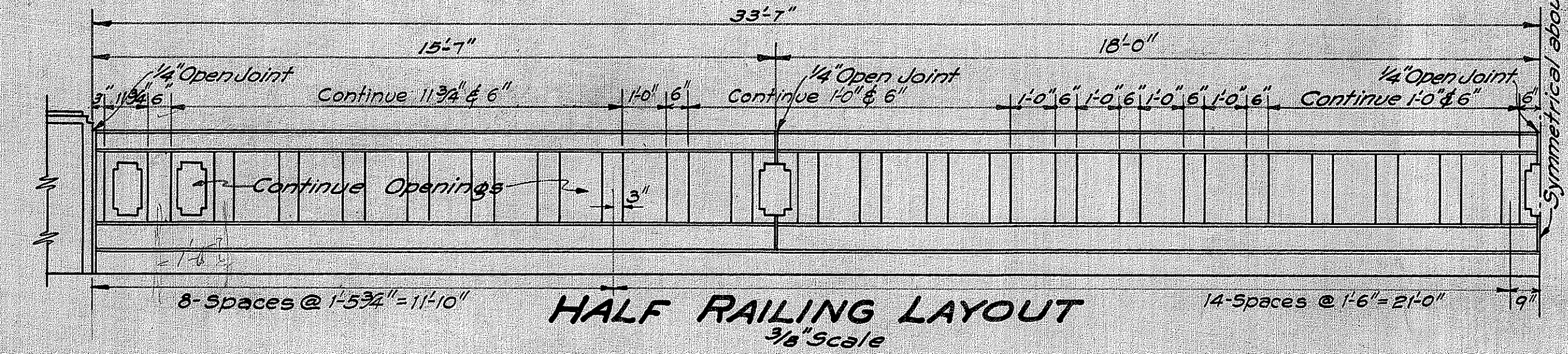
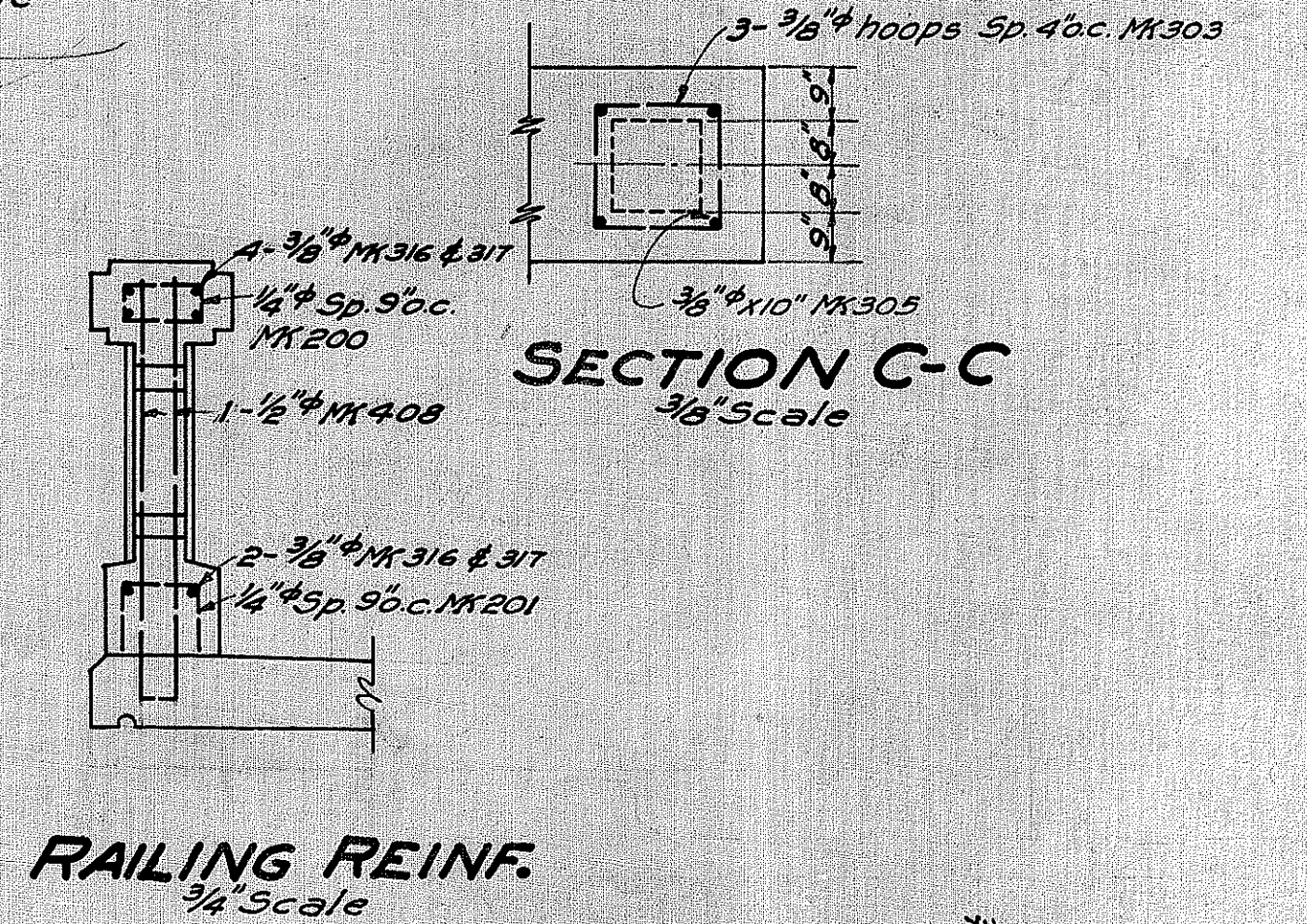
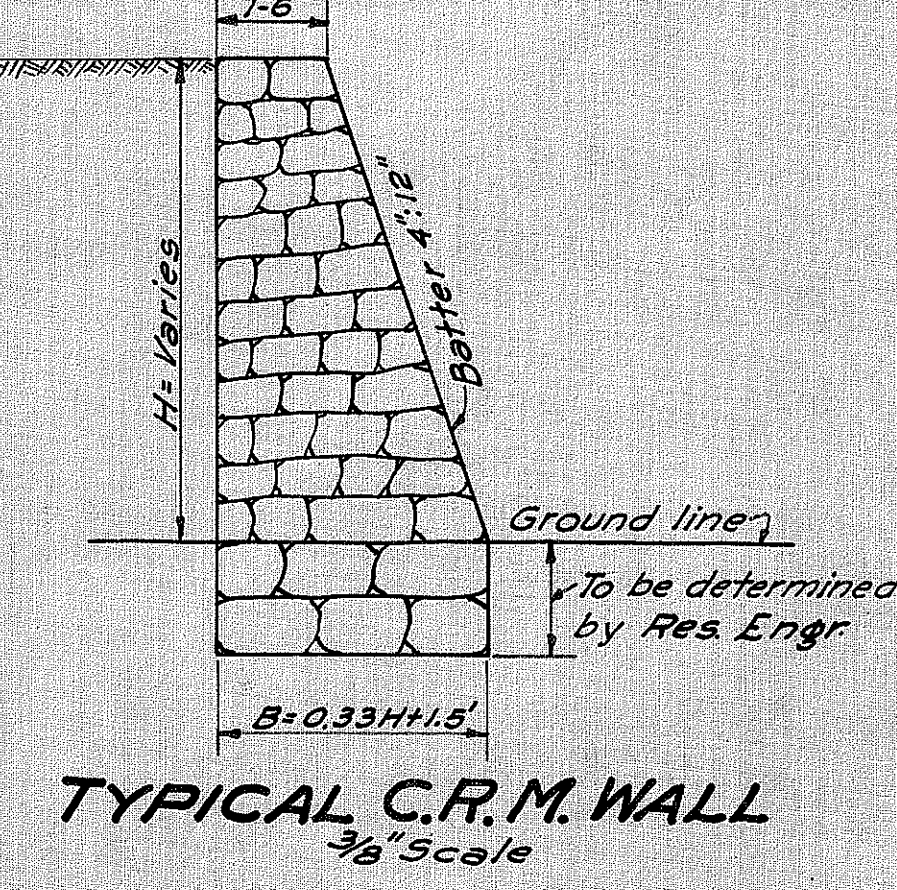
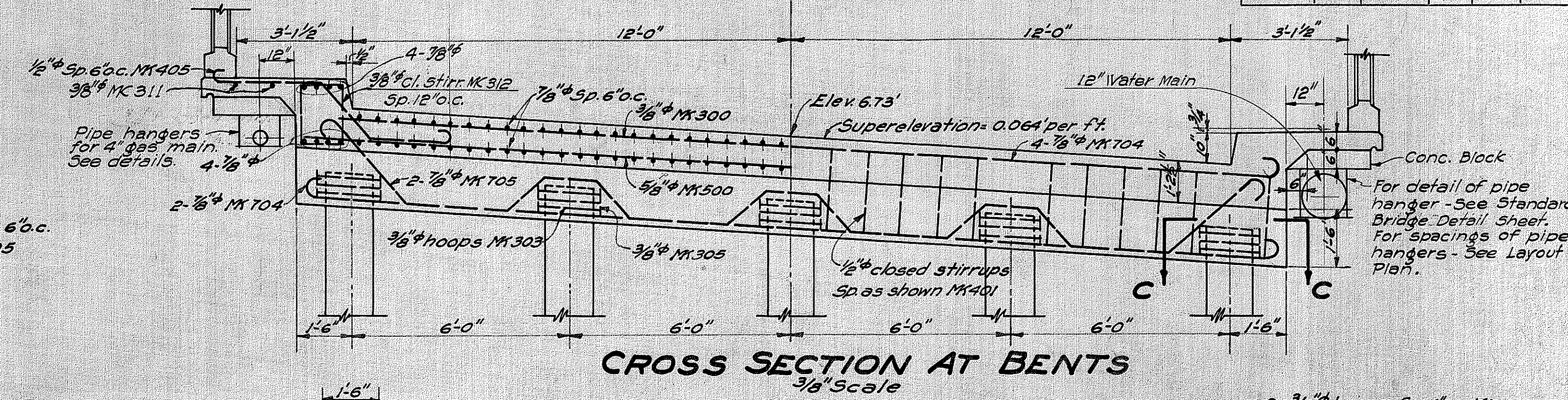
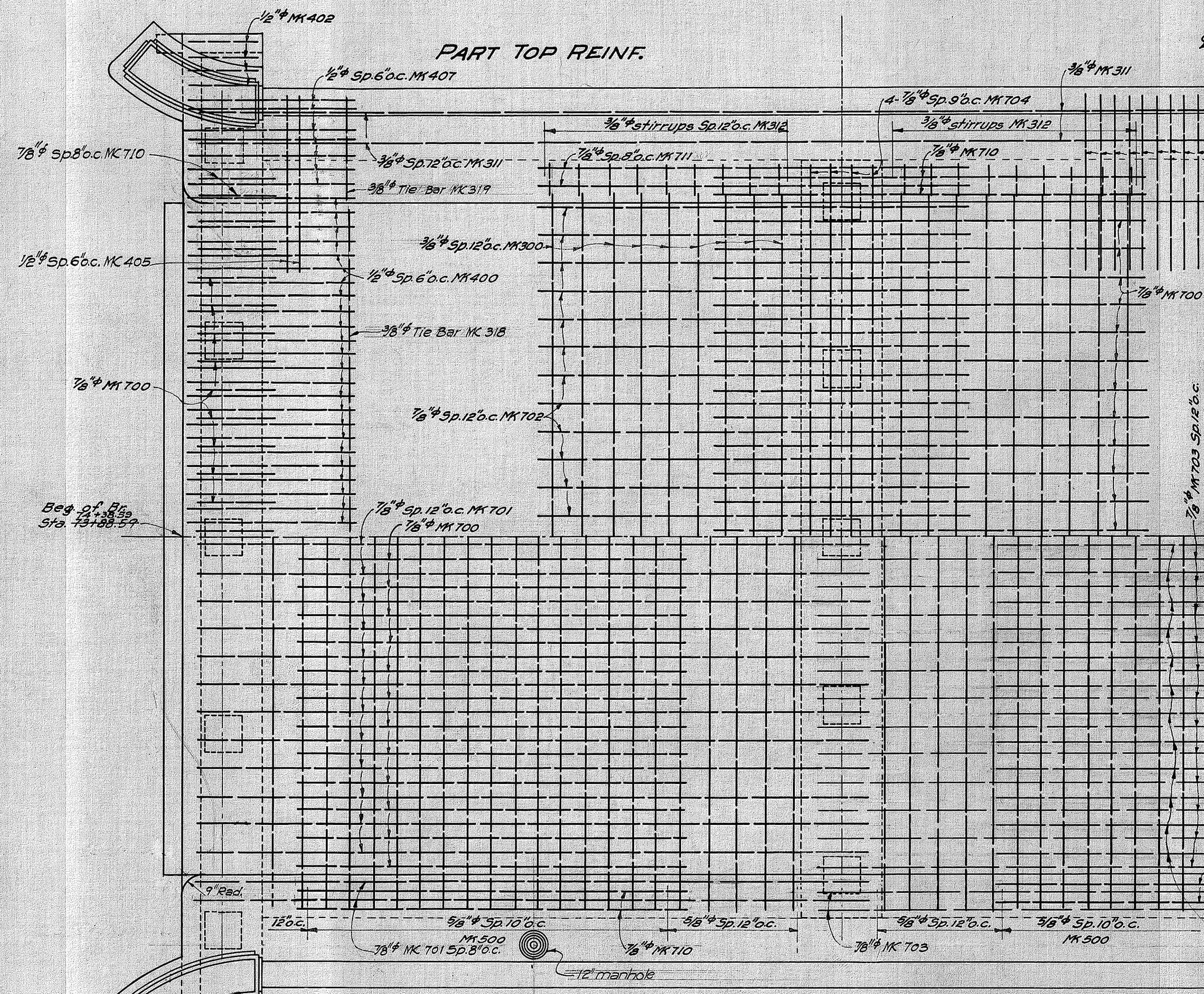




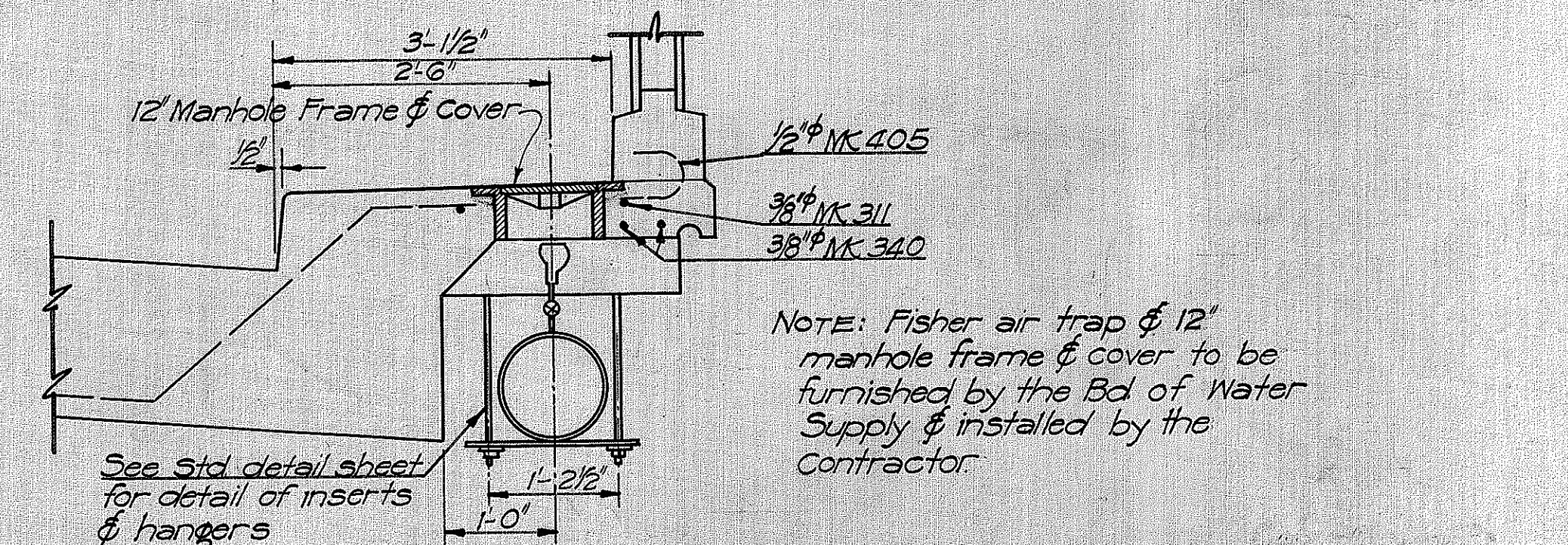
STEEL SCHEDULE

FED. ROAD DIST. NO.	STATE	FED. AID PROJ. NO.	FISCAL YEAR	SHEET NO.	TOTAL SHEETS
HAWAII	HAW	25 B	1937	14	32

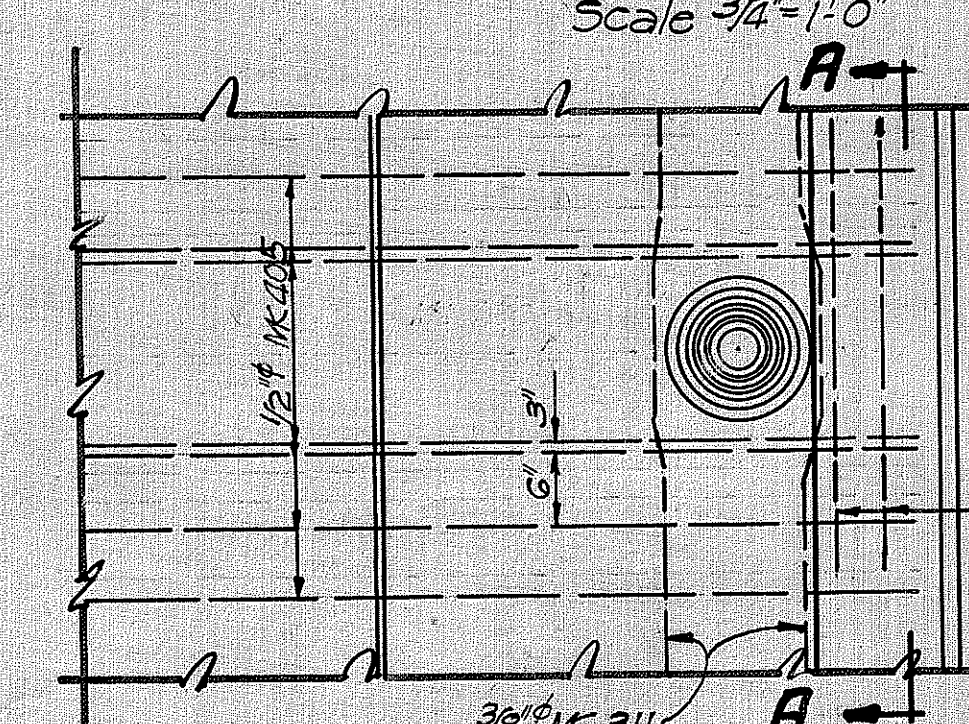
MC	DESCRIPTION	LOCATION	SIZE	LENGTH	NO. OF BARS IN EA. UNIT	NO. OF UNITS	TOTAL NO. OF BARS	TOTAL LENGTH	WT PER FT.	TOTAL WEIGHT
200		RAIL & POST Rail	1 1/4 inch	2'-3"	21	4	184	414.0	0.17	70
201		"	"	1'-6"	21	4	184	276.0	"	47
408		"	1 1/2 inch	6'-3"	11	4	92	575.0	0.67	385
316		End Rails	3/8 inch	15'-2"	6	4	24	364.0	0.38	138
317		Interm. Rails	"	17'-6"	6	4	24	420.0	"	160
308		Posts	"	10'-9"	3	4	12	129.0	"	49
700		SUPERSTR. Deck	7/8 inch	36'-3"	24	2	48	1740	2.04	3550
701		"	"	23'-3"	28	2	56	1442.0	"	2942
702		"	"	49'-9"	24	1	24	1194.0	"	2436
703		"	"	27'-9"	28	1	28	833.0	"	1699
500		"	3/8 inch	26'-6"	22	2	71	1881.5	1.04	1957
300		"	3/8 inch	25'-0"	18	2	36	900.0	0.38	342
704		Pile cap & deck	7/8 inch	28'-6"	6	2	12	342.0	2.04	698
705		Pile cap Middle PIER	"	31'-8"	2	2	4	126.7	"	258
708		Pile cap & deck	"	35'-7"	4	2	8	285.0	"	581
707		Pile cap Abutments	"	38'-6"	2	2	4	154.4	"	315
706		"	"	37'-6"	2	2	4	150.0	"	306
401		"	1/2 inch	10'-3"	22	4	88	902.0	0.67	604
303		"	3/8 inch	7'-9"	3	20	60	465.0	0.38	177
305		"	"	0'-10"	4	20	80	66.4	"	25
400		Abut. Aprons	1/2 inch	Var. Av. 13'-7"	49	2	98	1330.8	0.67	892
402		"	"	10'-9"	4	2	8	86.0	"	57
407		"	"	15'-3"	7	2	14	213.5	"	143
406		"	"	13'-6"	7	2	14	189.0	"	127
320		"	"	8'-10"	3	2	6	54	0.38	20
301		"	3/8 inch	Var. Av. 6'-0"	35	2	70	420.0	0.38	160
302		"	"	40'-4"	6	2	12	484.0	"	184

MC	DESCRIPTION	LOCATION	SIZE	LENGTH	NO. OF BARS IN EA. UNIT	NO. OF UNITS	TOTAL NO. OF BARS	TOTAL LENGTH	WT PER FT.	TOTAL WEIGHT
304		SUPERSTR. Abut. Aprons	3/8 inch	39'-5"	6	2	12	473.0	0.38	180
405		Sidewalk Slab	1/2 inch	8'-1"	133	1	132	2142.0	0.67	1435
312		"	3/8 inch	6'-3"	9	8	72	450.0	0.38	171
321		Abut.	"	10'-6"	3	2	6	63.0	"	24
314		Abut.	"	2'-0"	2	2	4	8.0	"	3
315		"	"	2'-6"	2	2	4	10.0	"	4
313		"	"	3'-3"	4	4	16	52.0	"	20
308	See previous sketch	Posts	"	10'-9"	1	4	4	43.0	"	16
404		"	1/2 inch	4'-6"	10	4	40	180.0	0.67	121
306		"	3/8 inch	Var. Av. 8'-6"	4	4	16	136.0	0.38	52
307		"	"	5'-0"	2	4	8	40.0	"	15
309		"	"	7'-3"	3	4	12	84.0	"	33
318		Deck	"	23'-6"	1	2	2	470	"	18
710		"	"	37'-9"	2	4	8	302.0	"	616
711		"	"	50'-6"	2	2	4	202.0	"	412
311		Sidewalk Slab	3/8 inch	72'-0"	2	2	4	288.0	0.38	109
319		"	"	3'-9"	1	4	4	15.0	"	6
322		Abut.	"	5'-6"	2	2	4	22.0	"	8
323		"	"	7'-0"	2	2	4	28.0	"	11
409		Conc. Cap Abut.	1/2 inch	Var. Av. 11'-9"	3	4	12	141.0	0.67	94
411		Approach Slab	"	23'-6"	16	2	32	752.0	"	504
410		"	"	15'-11"	24	2	48	764.0	"	512
412		"	"	23'-10"	20	2	40	953.2	"	639
600		"	3/4 inch	15'-10"	39	2	78	1234.7	1.50	1852
601		"	"	16'-0"	4	4	16	256.0	1.50	384
403		Abut.	1/2 inch	9'-0"	4	2	8	72.0	0.67	48
324		Sidewalk Slab Pipe Hanger	3/8 inch	3'-7"	3	12	36	128.9	0.38	49
325		"	"	2'-3"	2	12	24	54.0	"	20

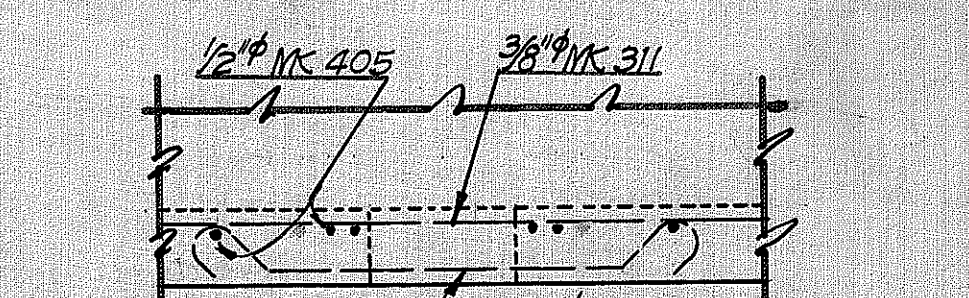
MC	DESCRIPTION	LOCATION	SIZE	LENGTH	NO. OF BARS IN EA. UNIT	NO. OF UNITS	TOTAL NO. OF BARS	TOTAL LENGTH	WT PER FT.	TOTAL WEIGHT
413		Conc. Cap Abut.	1/2 inch	1'-9"	8	2	16	28	0.67	19
340		Sidewalk at Manhole	3/8 inch	4'-2"	2	1	2	8.3	0.38	3
Grand Total										25,700*



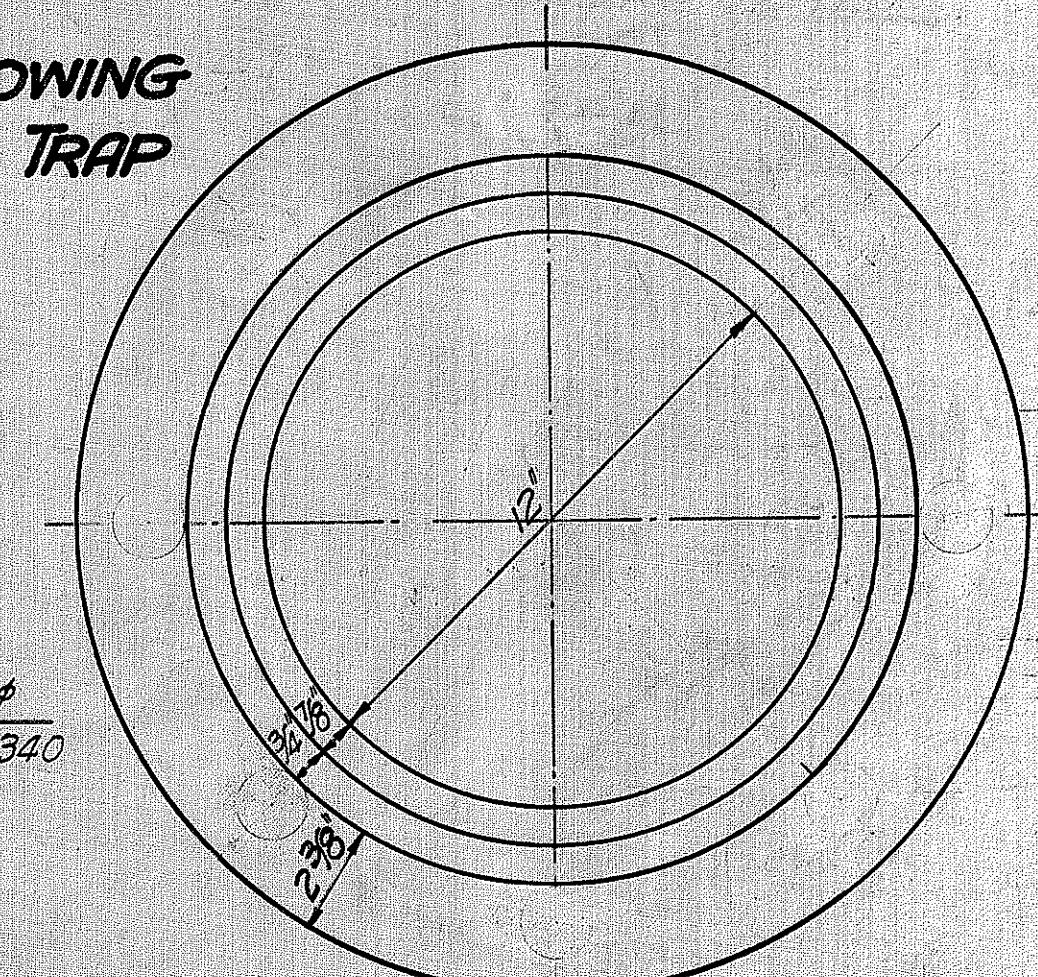
SECT. THRU SIDEWALK SHOWING MANHOLE FOR FISHER AIR TRAP



PLAN OF MANHOLE & FRAME



SECT. A-A



PLAN



SECTION THRU M.H. FRAME

CONTRACTORS NOTE
This steel schedule is subordinate to details shown on plans. In case of discrepancy between steel list and detail drawings the latter shall govern.
The Territorial Highway Dept. does not assume responsibility for any errors that occur in the steel schedule. Contractor shall check steel before placing order.
All stirrup dimensions are to inside of stirrups; all other dimensions are figured to E. of bars.

TERRITORIAL HIGHWAY DEPARTMENT
TERRITORY OF HAWAII
KUAPA BRIDGE
KALANIANA'OLE HIGHWAY F.A.P. 25-B
BRIDGE No. 3 STA. 74+38.59 TO 75+11.41
DATE: APR. 1937

DATE: APR. 1937
SURVEY PLOTTED BY: W. E. Bortels
DESIGNED BY: W. E. Bortels
CHECKED BY: W. E. Bortels
NOTE BOOK
QUANTITIES BY: L. Felix & F. Kang
CHECKED BY: W. E. Bortels