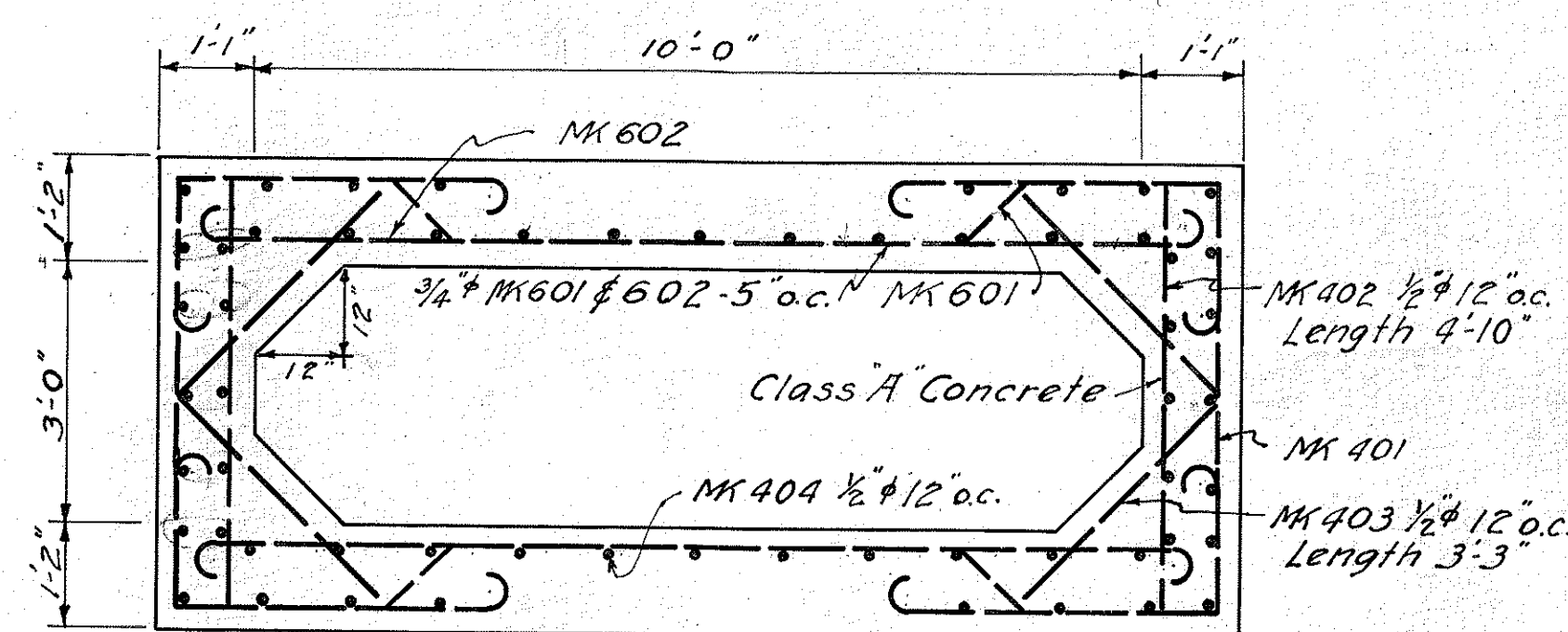
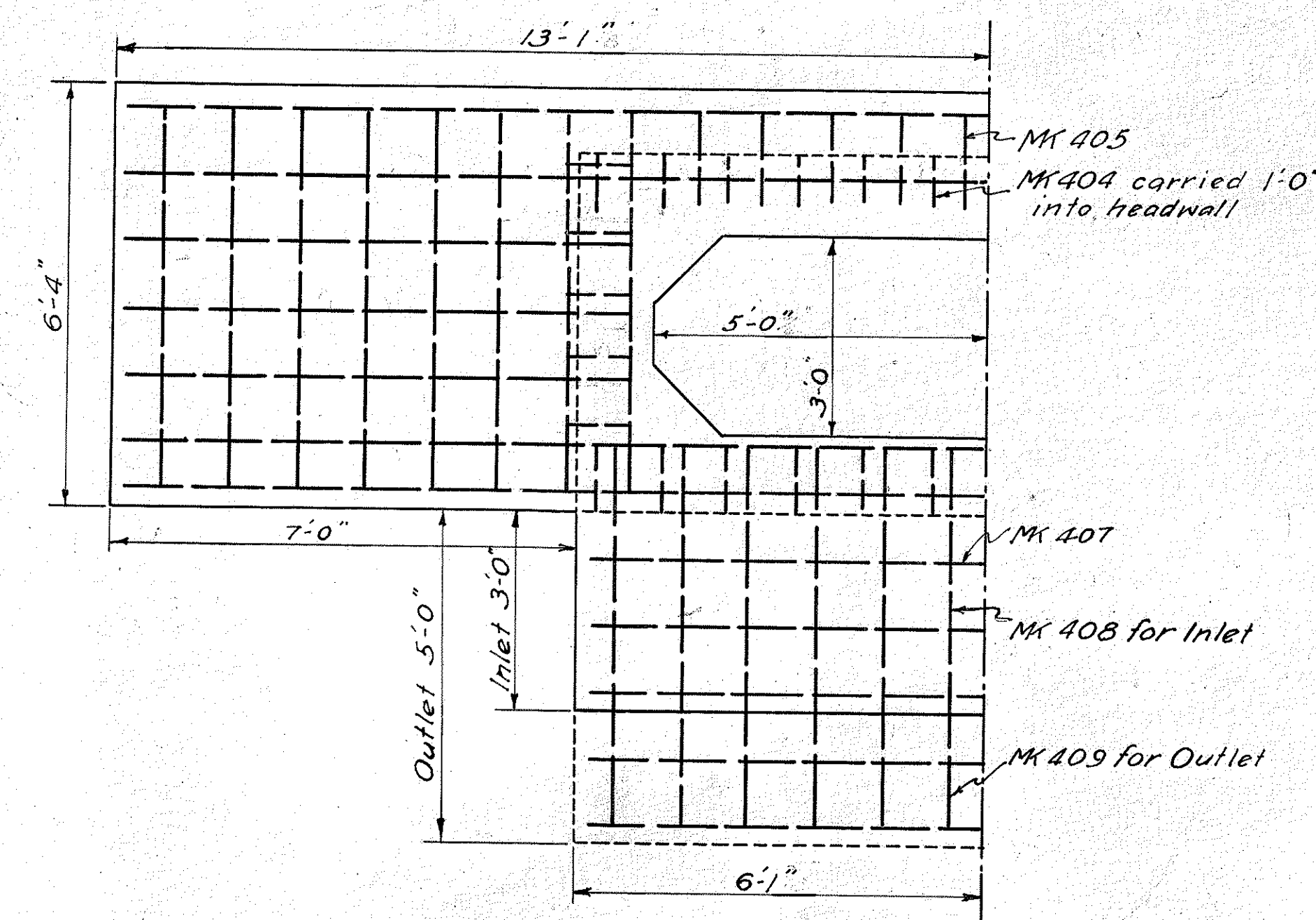




TYPICAL SECTION
Scale: 1/2" = 1'-0"

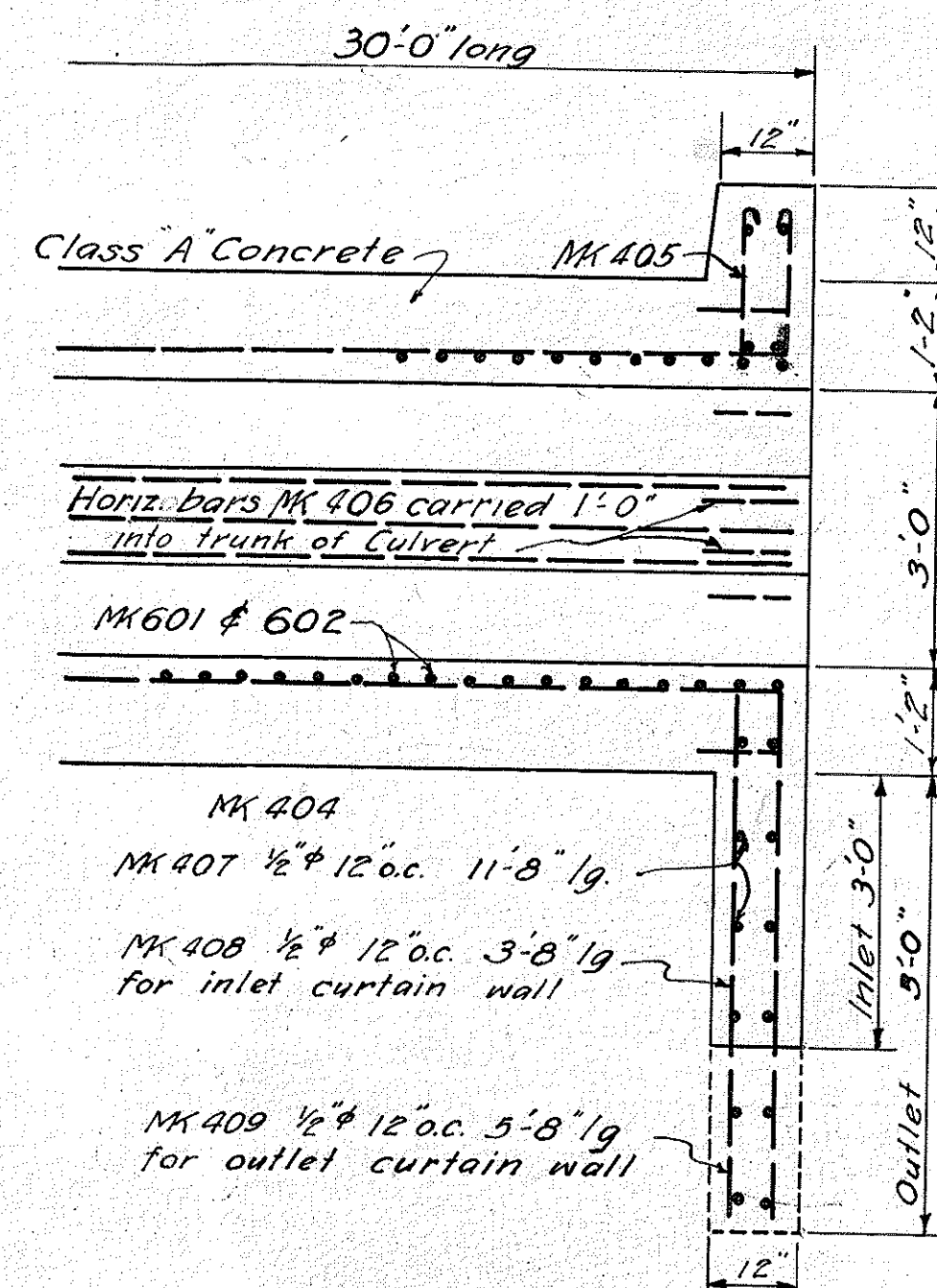


ELEV. SHOWING 1/2 HEADWALL
Scale: 1/2" = 1'-0"

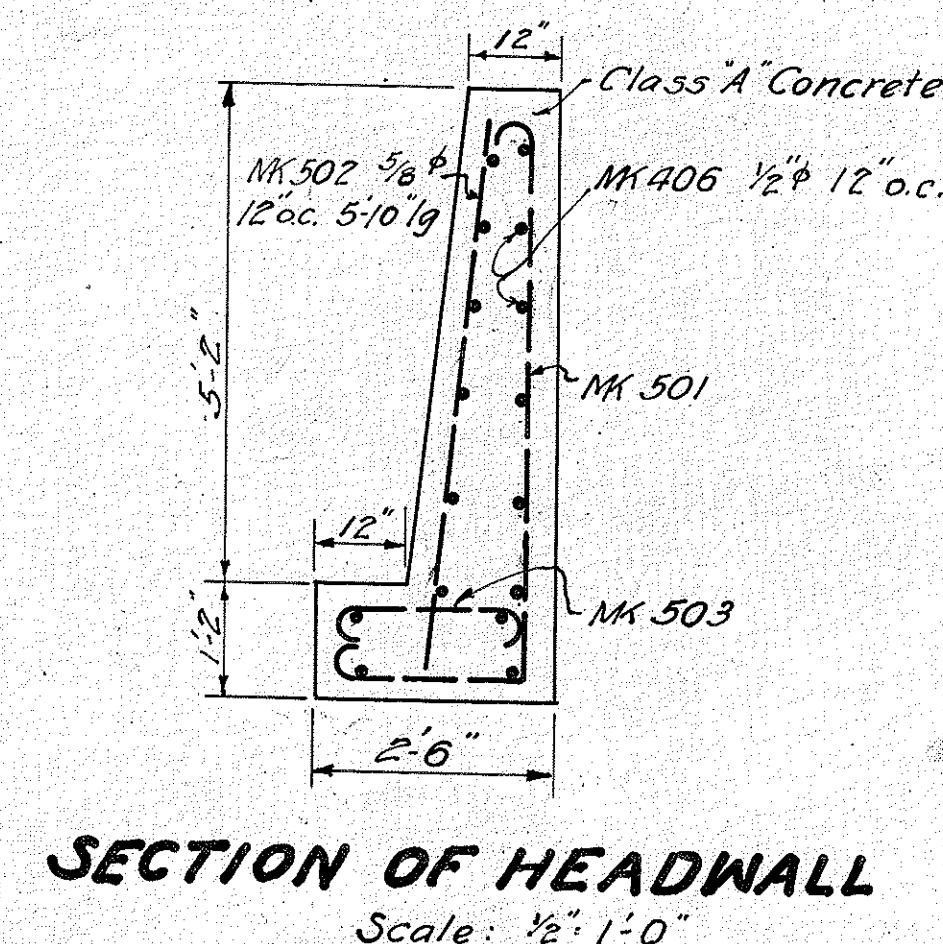
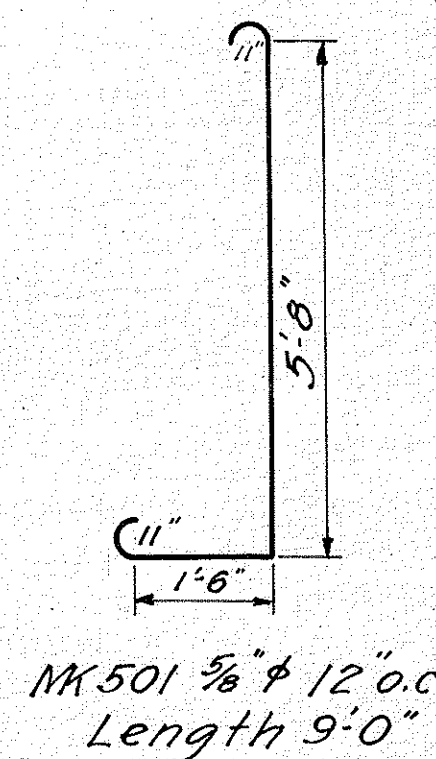
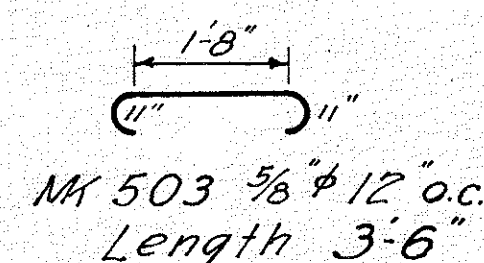
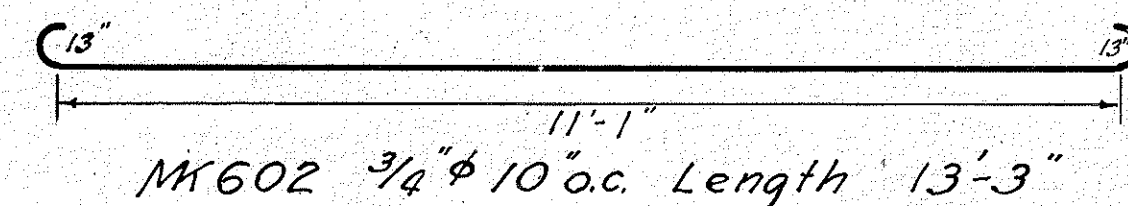
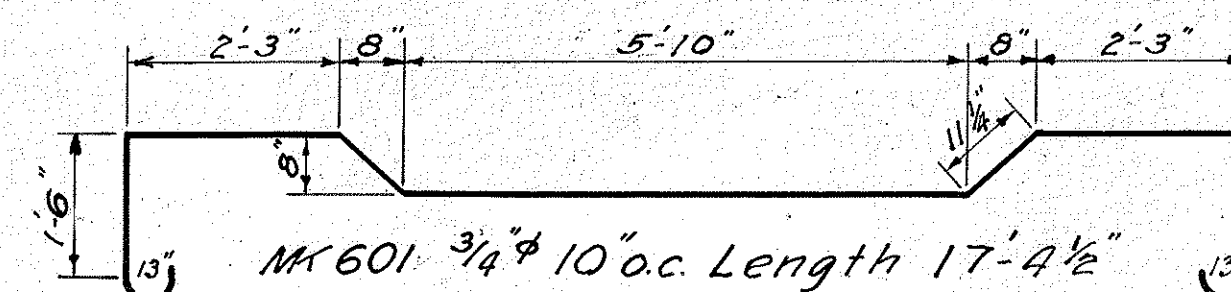
ESTIMATED QUANTITIES

Structure Excavation = 54 c.y.
Class "A" Concrete = 56 c.y.
Reinforcing Steel = 8242 lb.

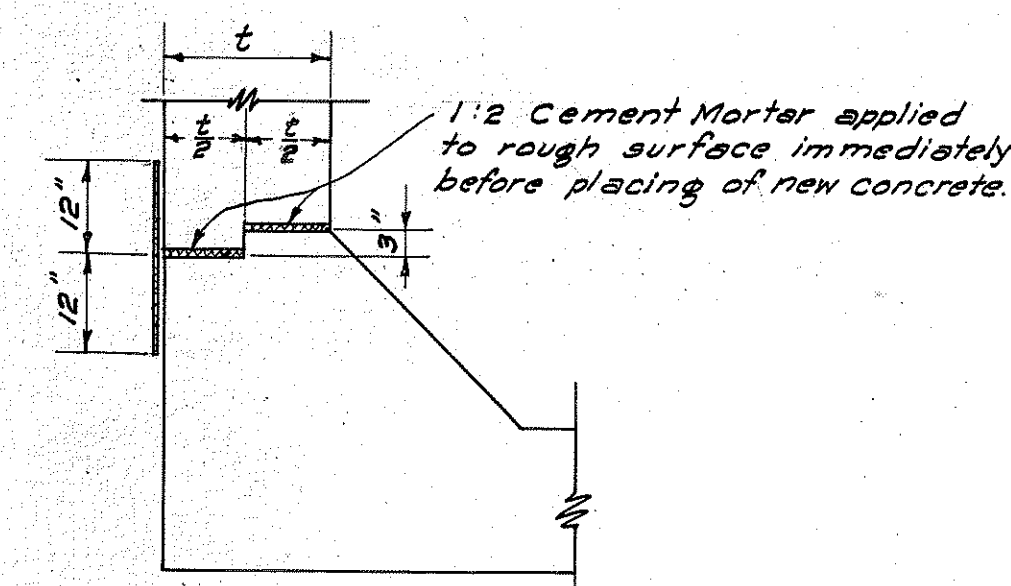
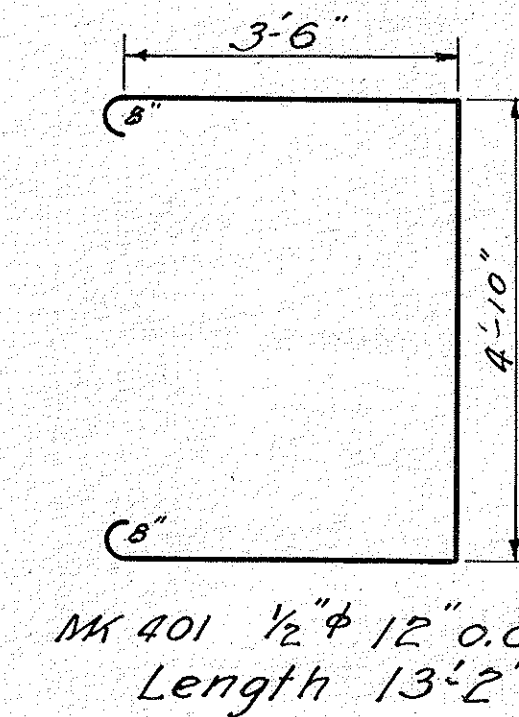
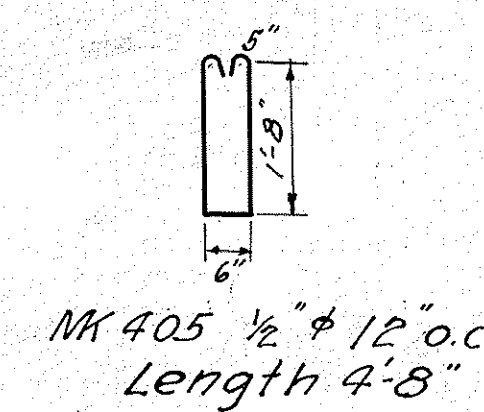
Length of culvert along C = 30'-0"
Inverts: Intake 774.5 Outlet 774.0



LONGITUDINAL SECTION
Scale: 1/2" = 1'-0"



SECTION OF HEADWALL
Scale: 1/2" = 1'-0"



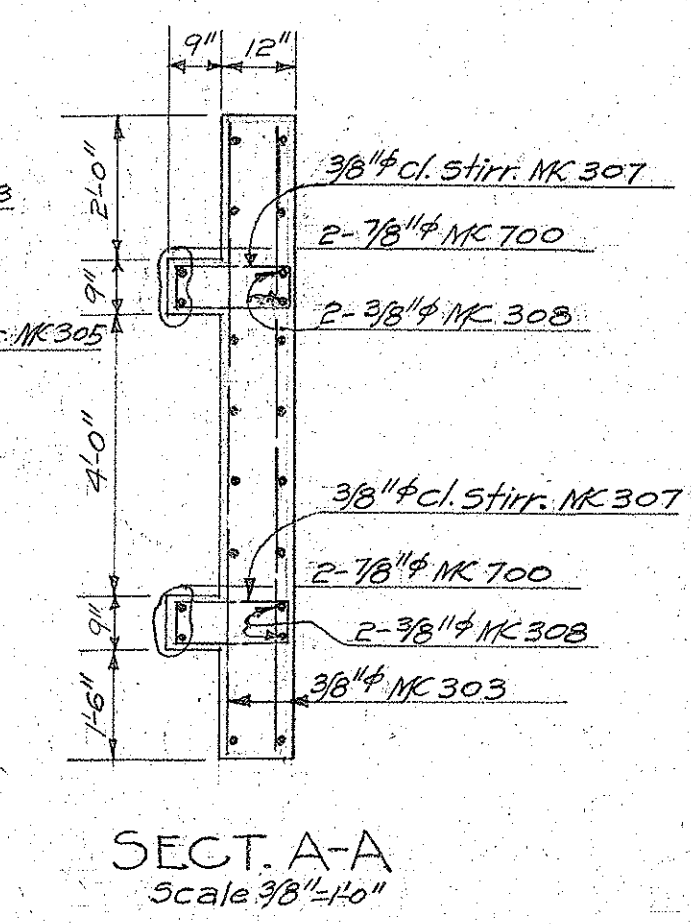
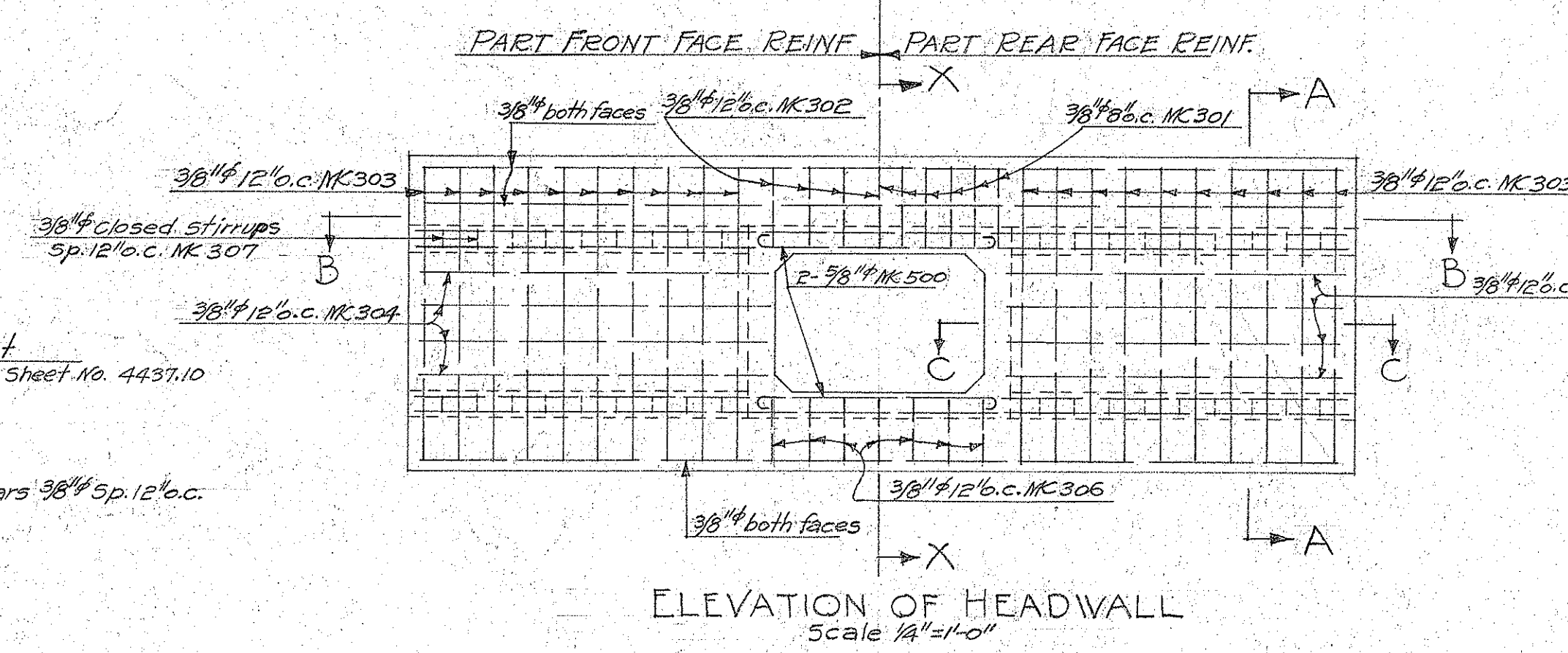
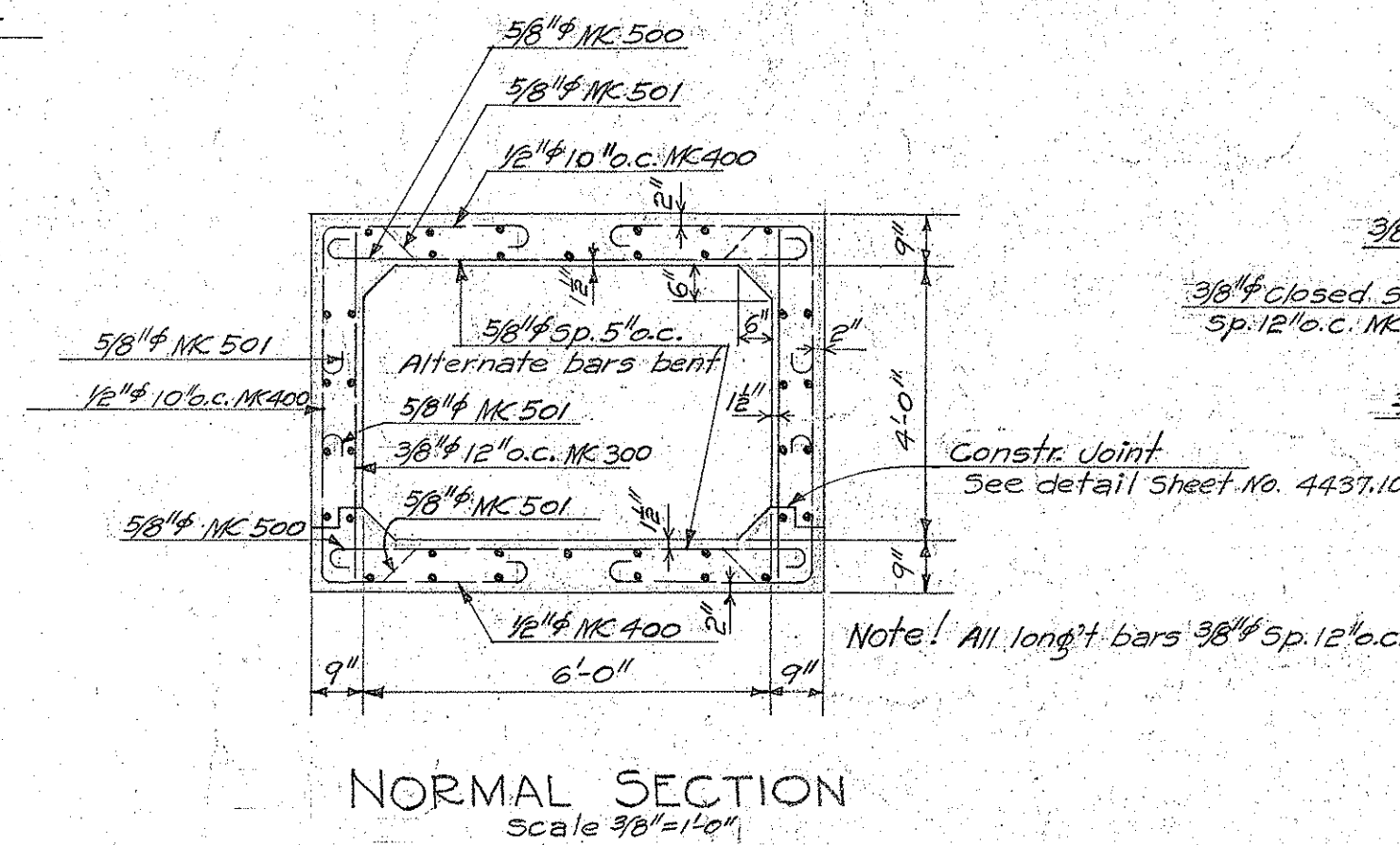
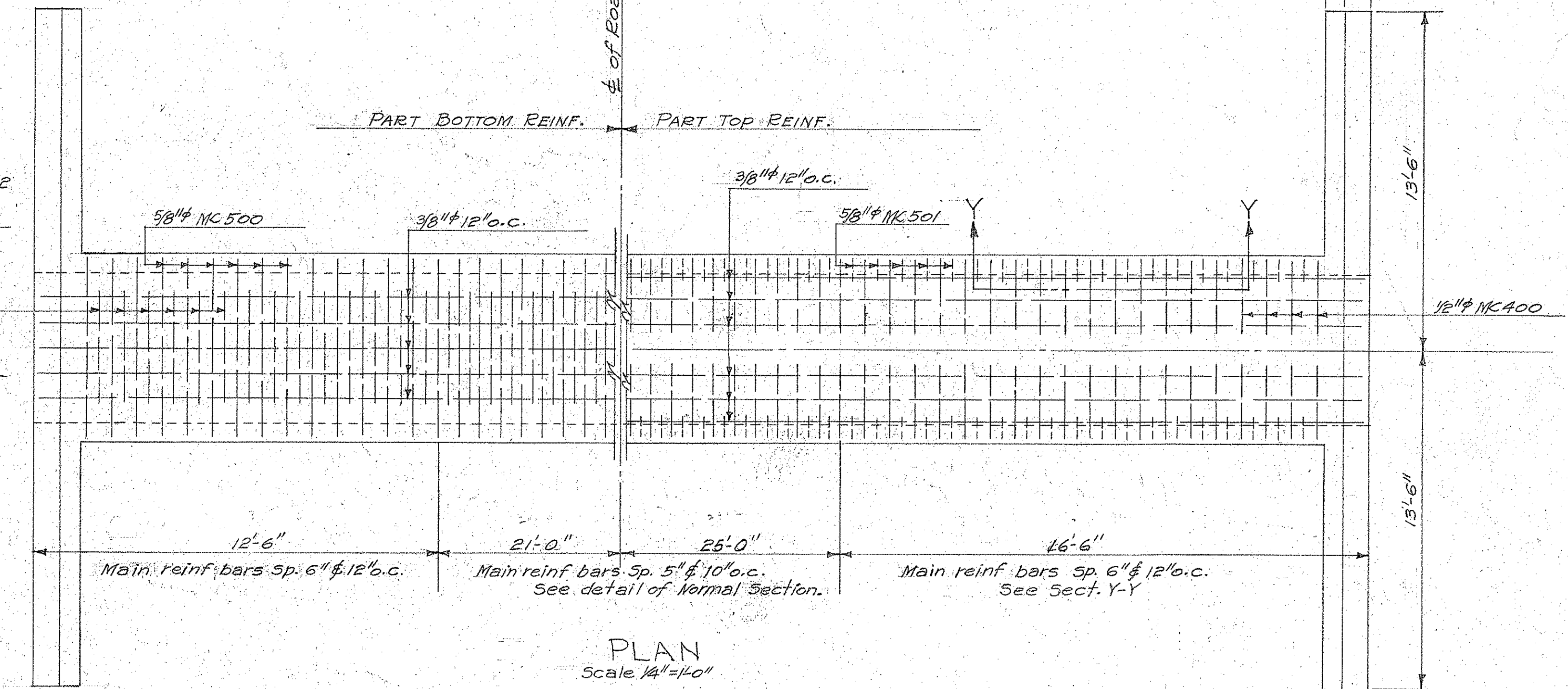
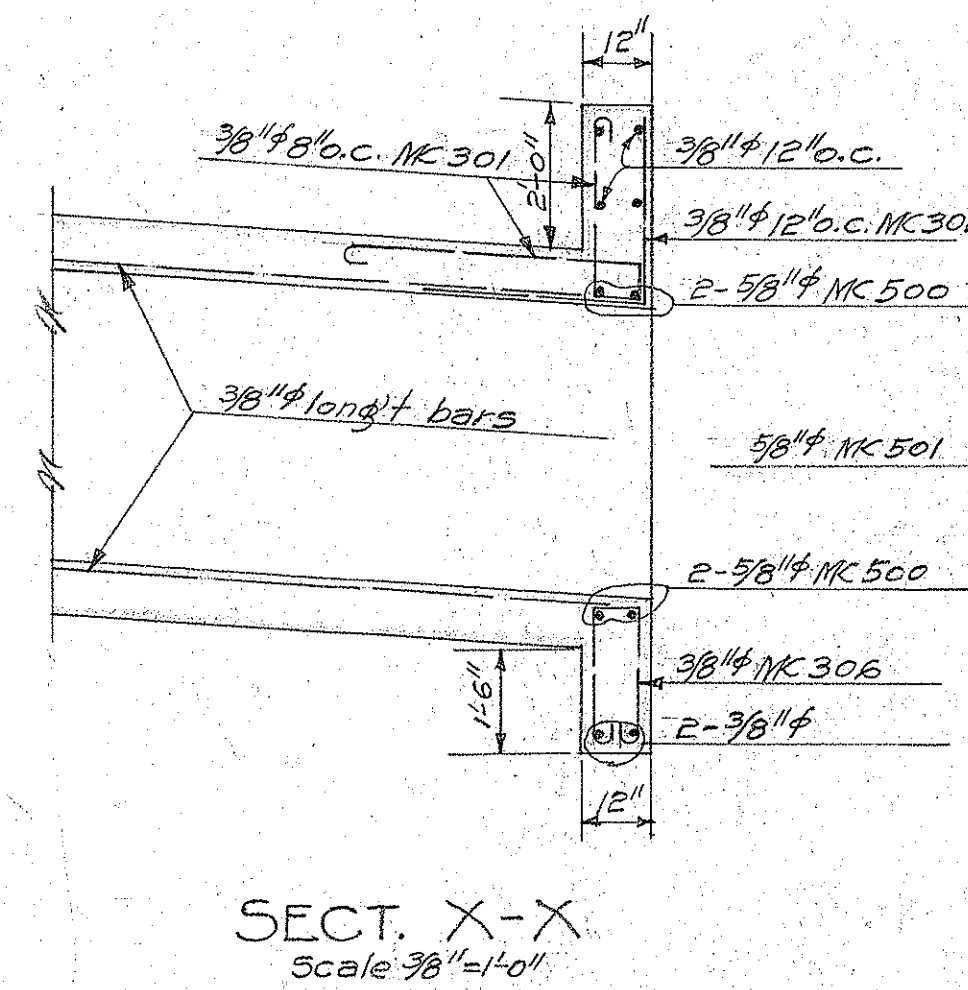
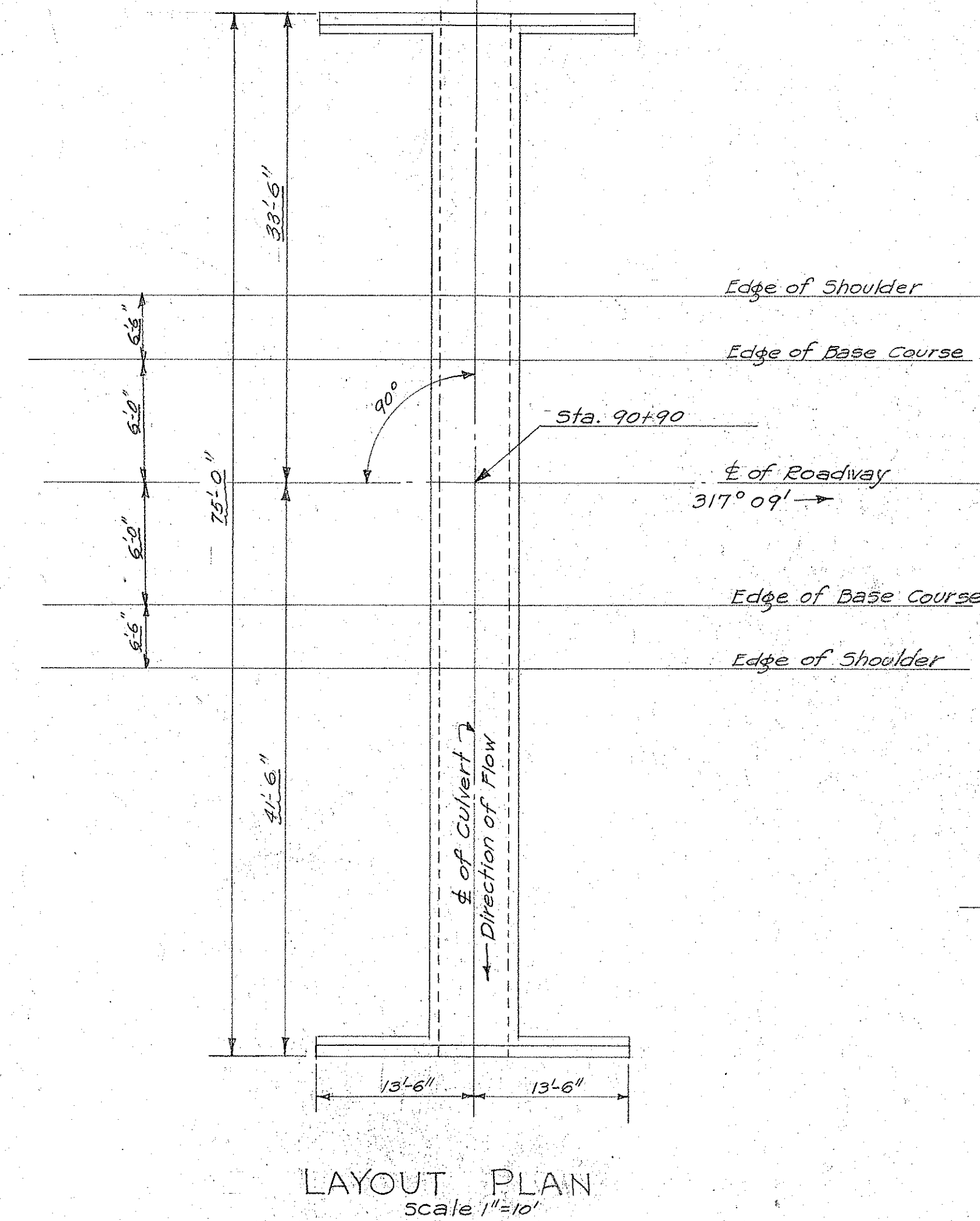
CONSTRUCTION JOINT DETAIL

METHOD OF APPLYING WATERPROOFING
FIRST: Map surface 18" either side of joint with asphalt 85-100 penetration applied at 200°F.
SECOND: Apply one layer of 2 ply roofing paper lapping 12" either side of joint, to hot asphalt; then map entire surface with a thick coat of hot asphalt as specified above.

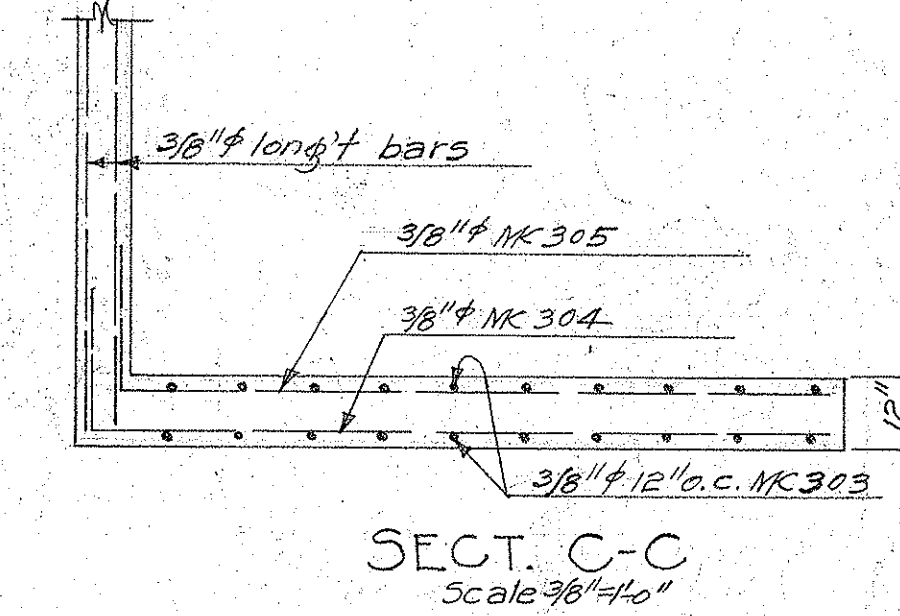
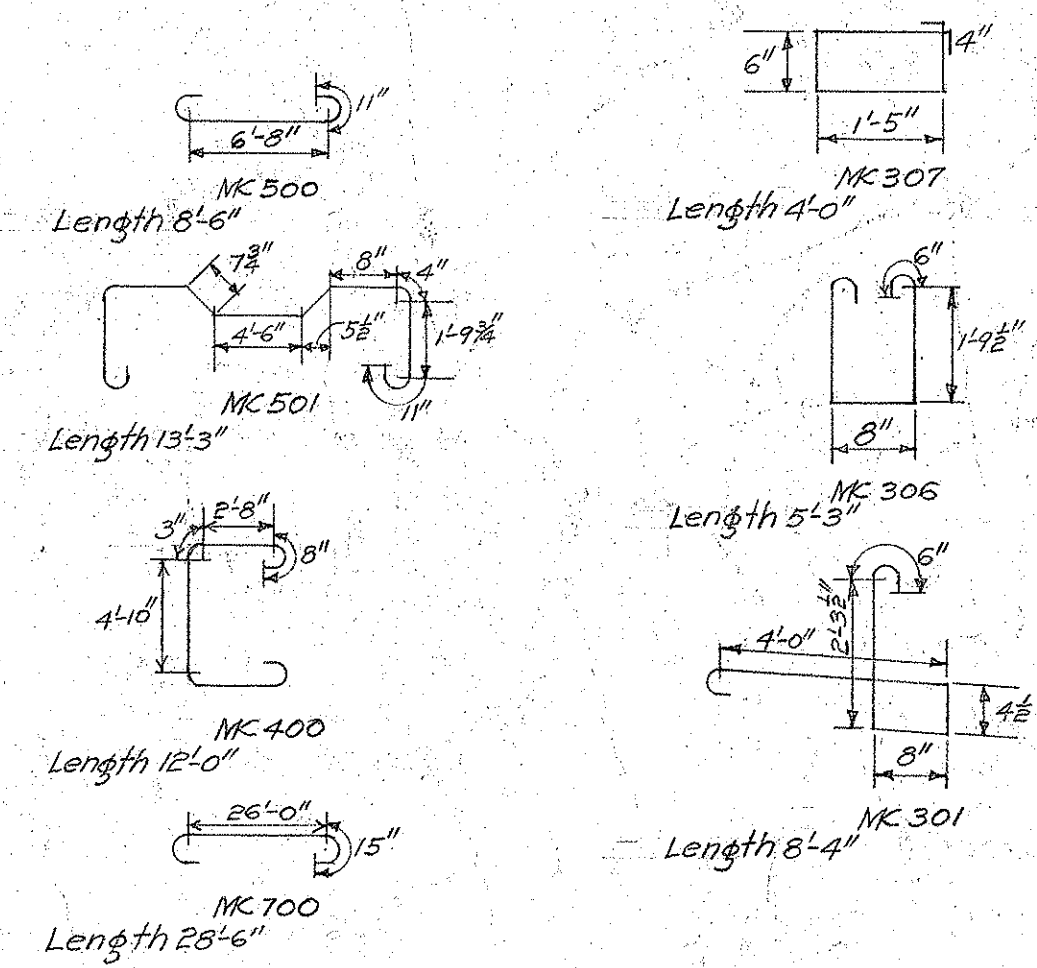
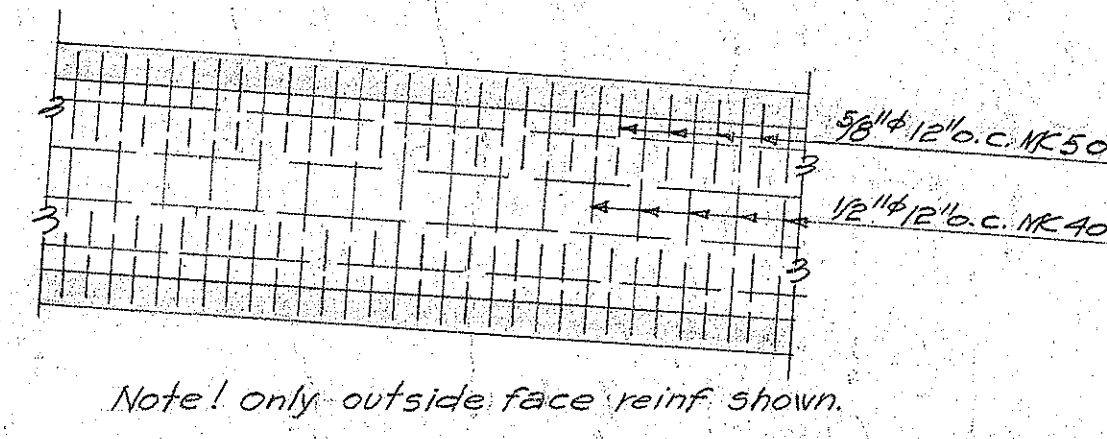
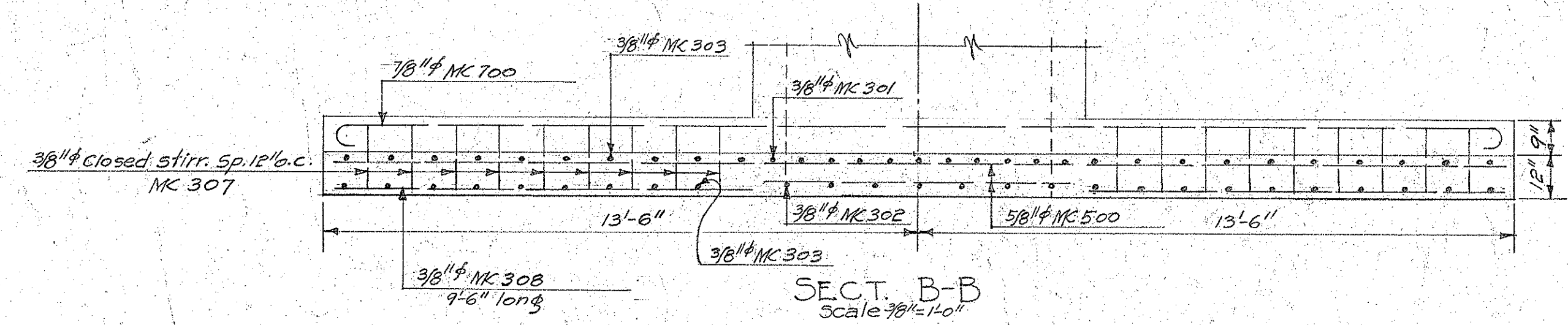
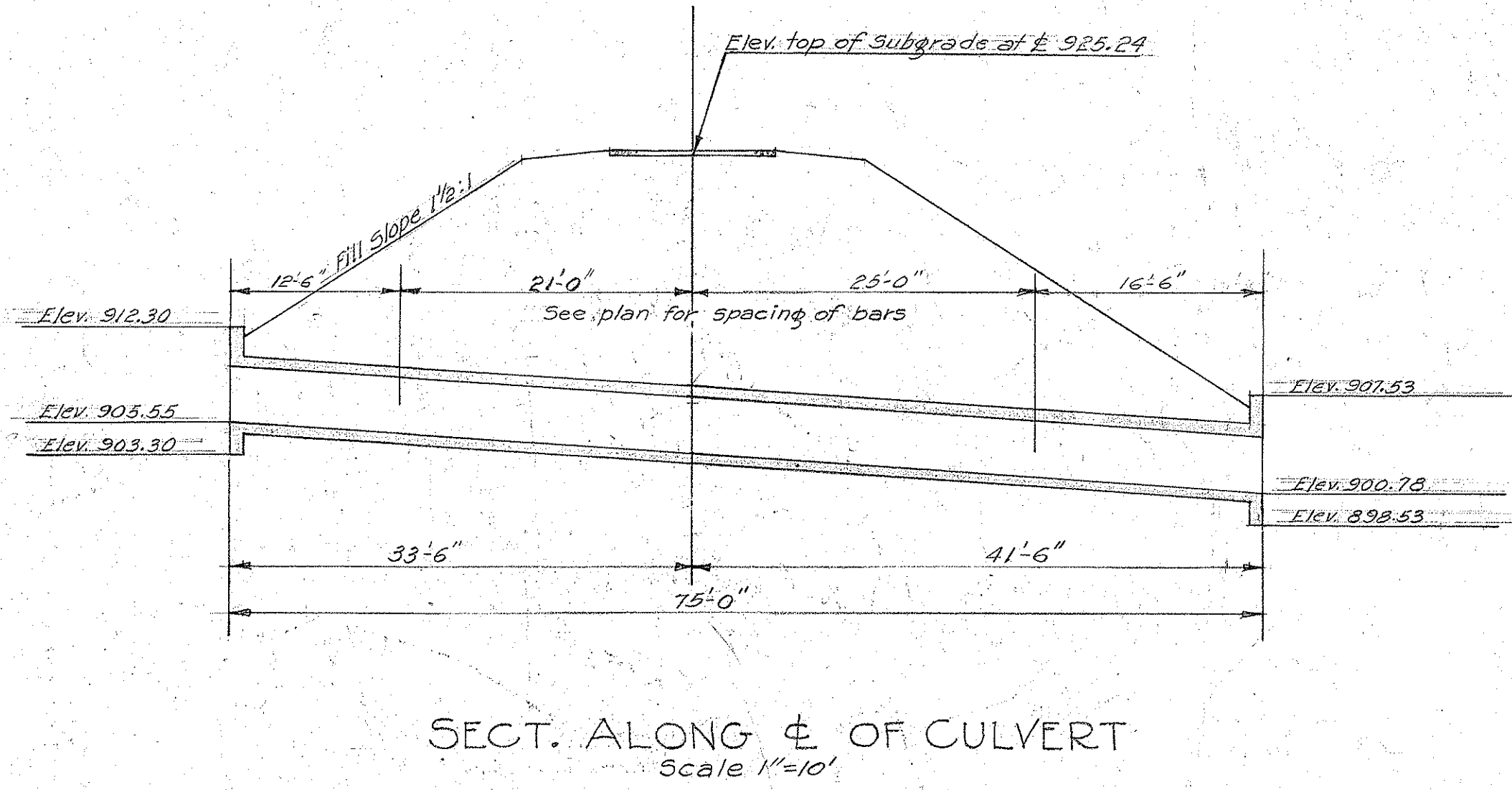
TERRITORIAL HIGHWAY DEPARTMENT
TERRITORY OF HAWAII

10x3 BOX CULVERT
SHINGLE MEMORIAL HOSPITAL LOOP
STA. 15+00 F.A.S. 1-A

FED. ROAD DIST. NO.	STATE	FED. AID PROJ. NO.	FISCAL YEAR	SHEET NO.	TOTAL SHEETS
HAWAII	HAW.	F.A.S. 1-A	1938	11	25



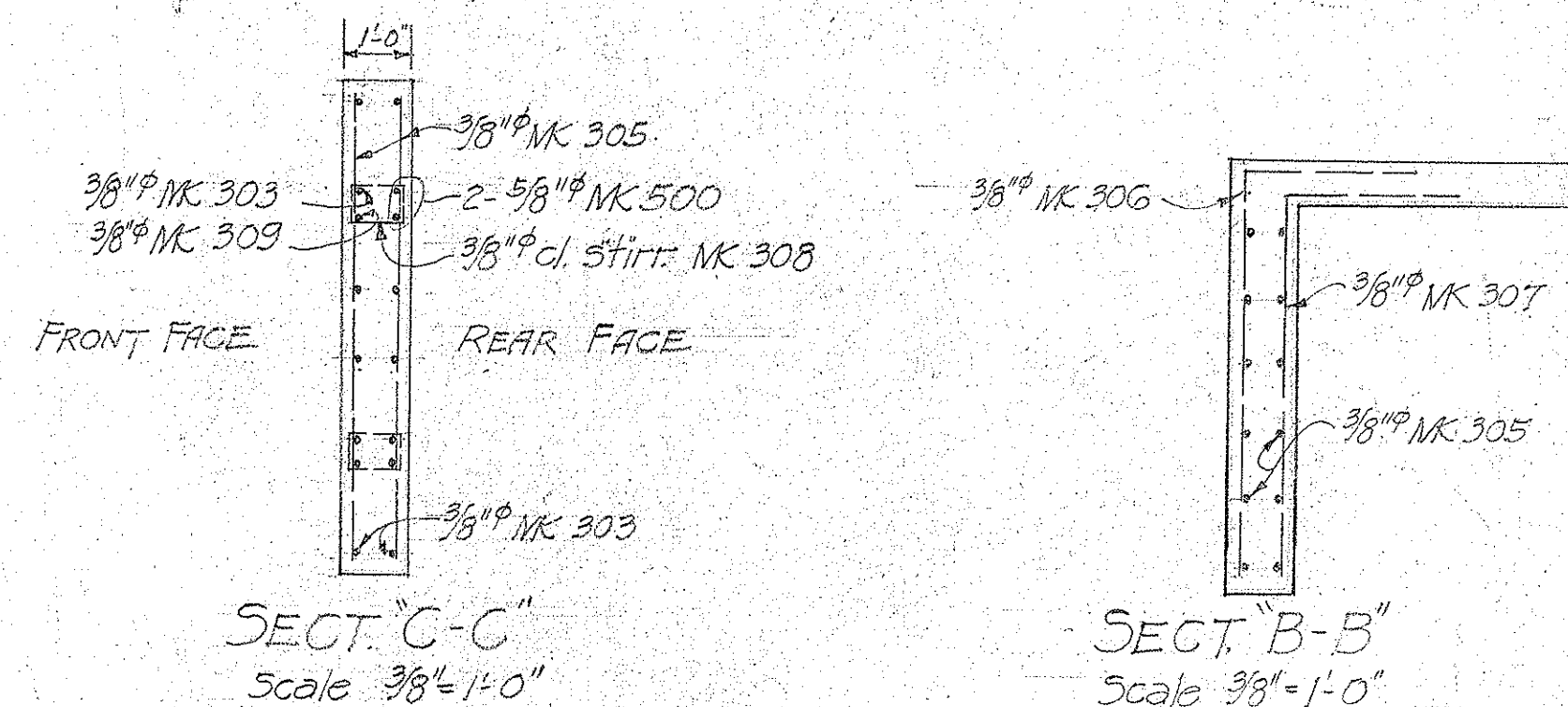
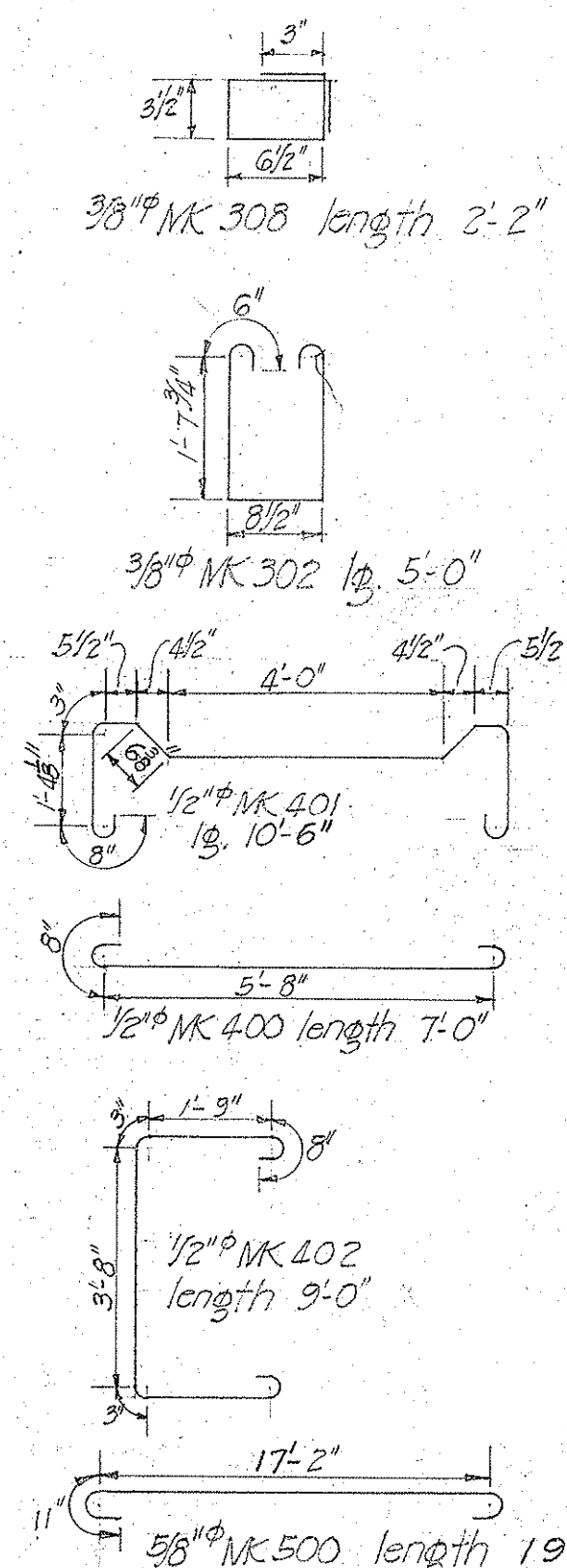
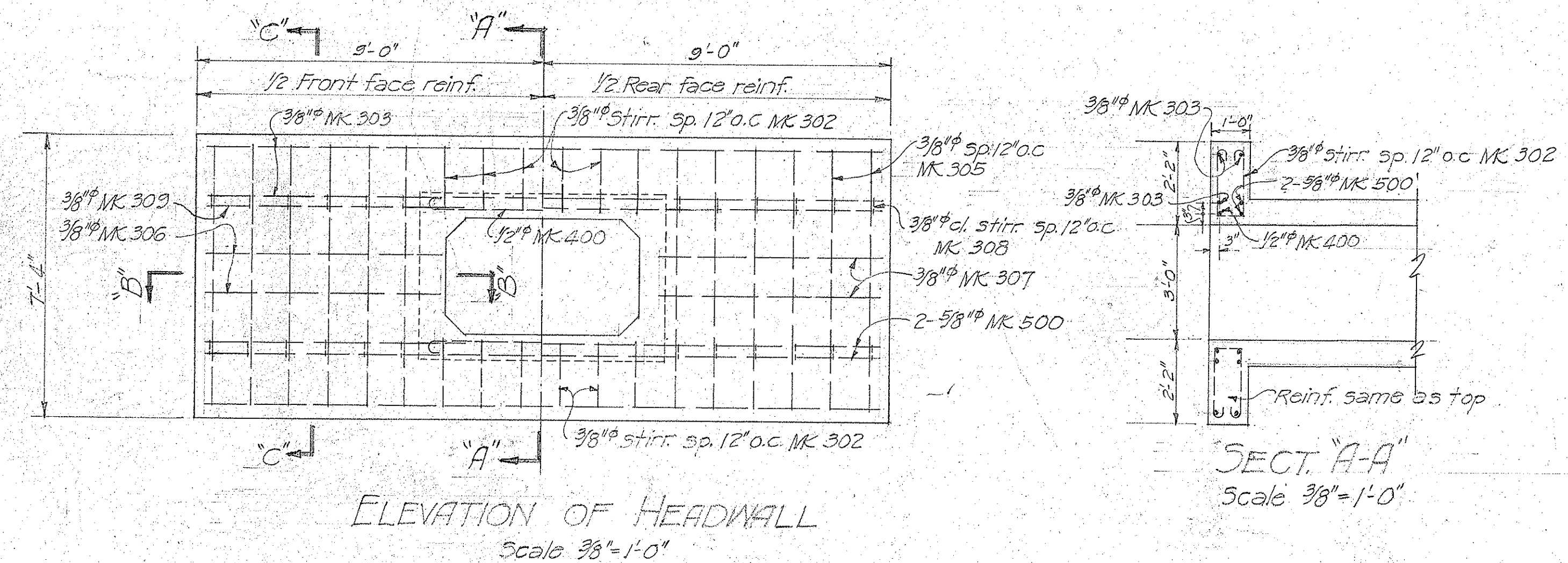
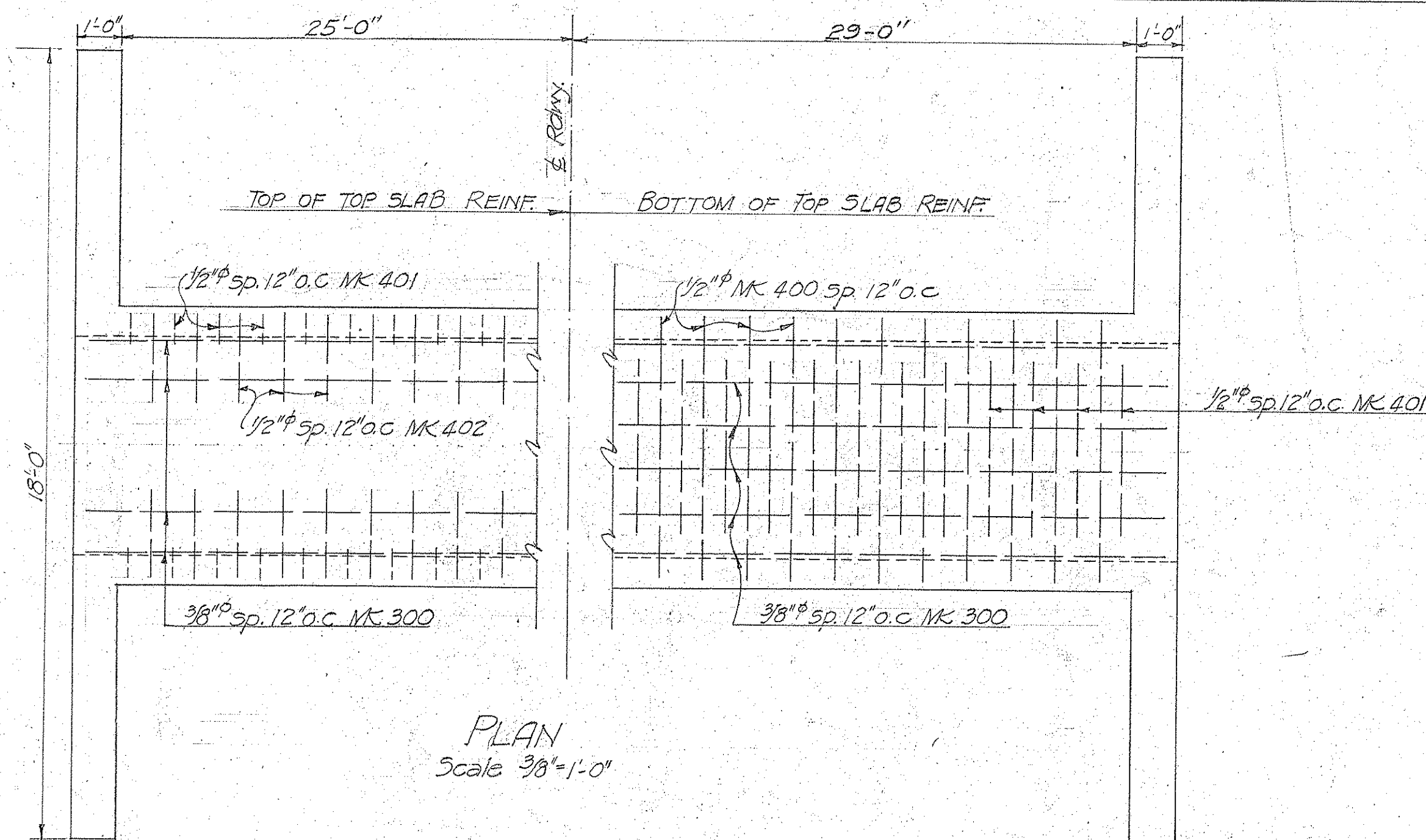
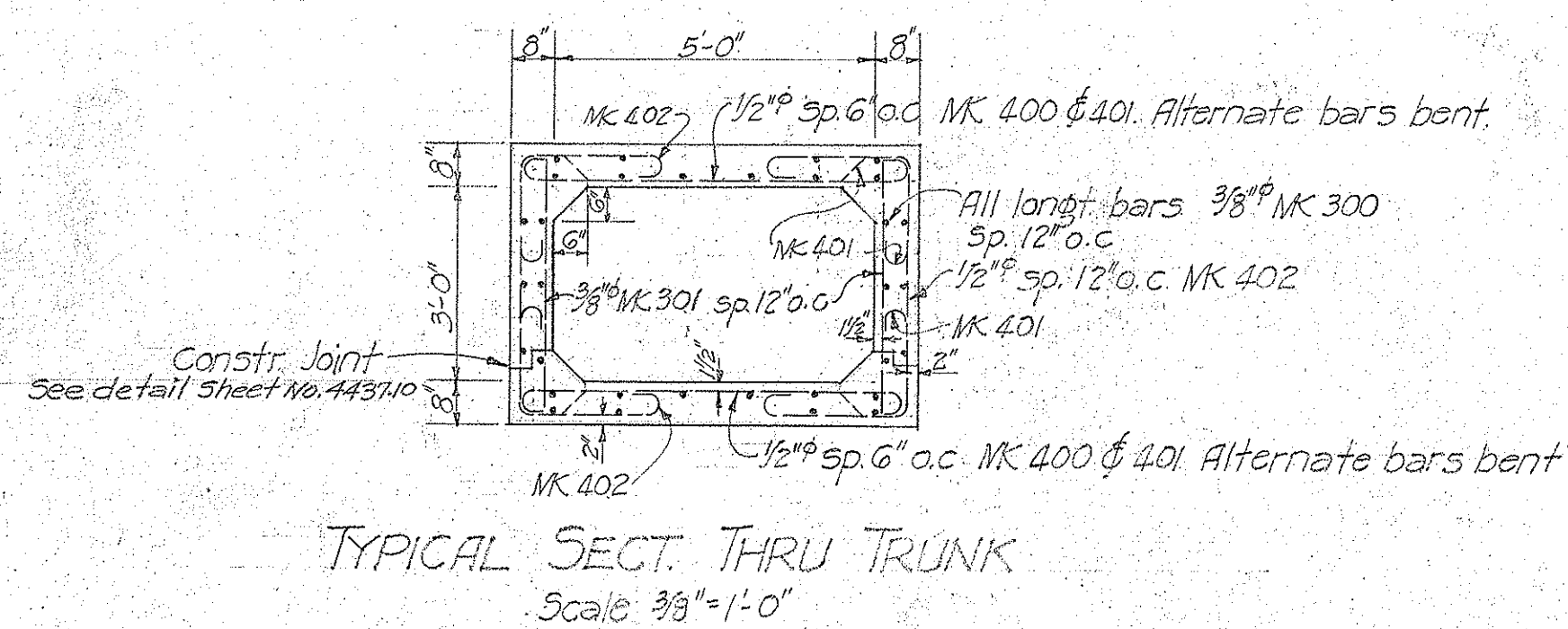
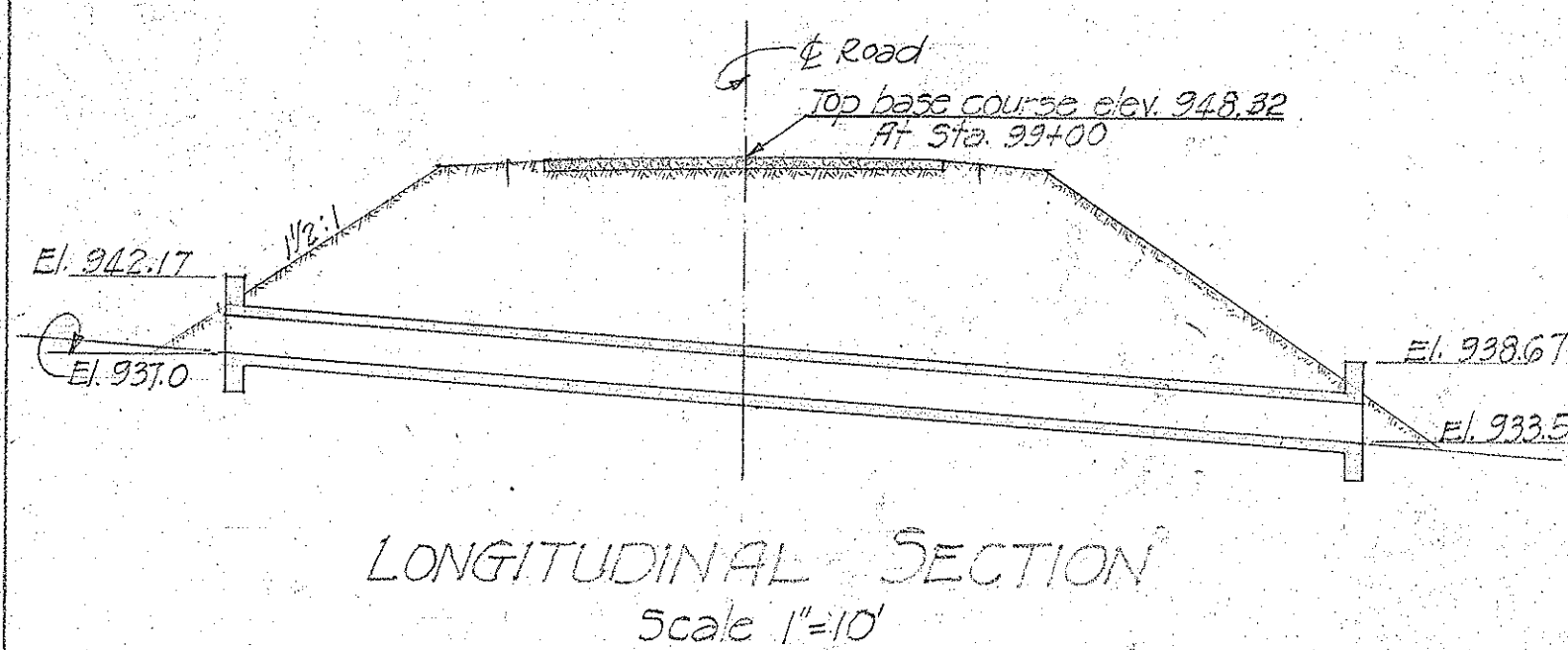
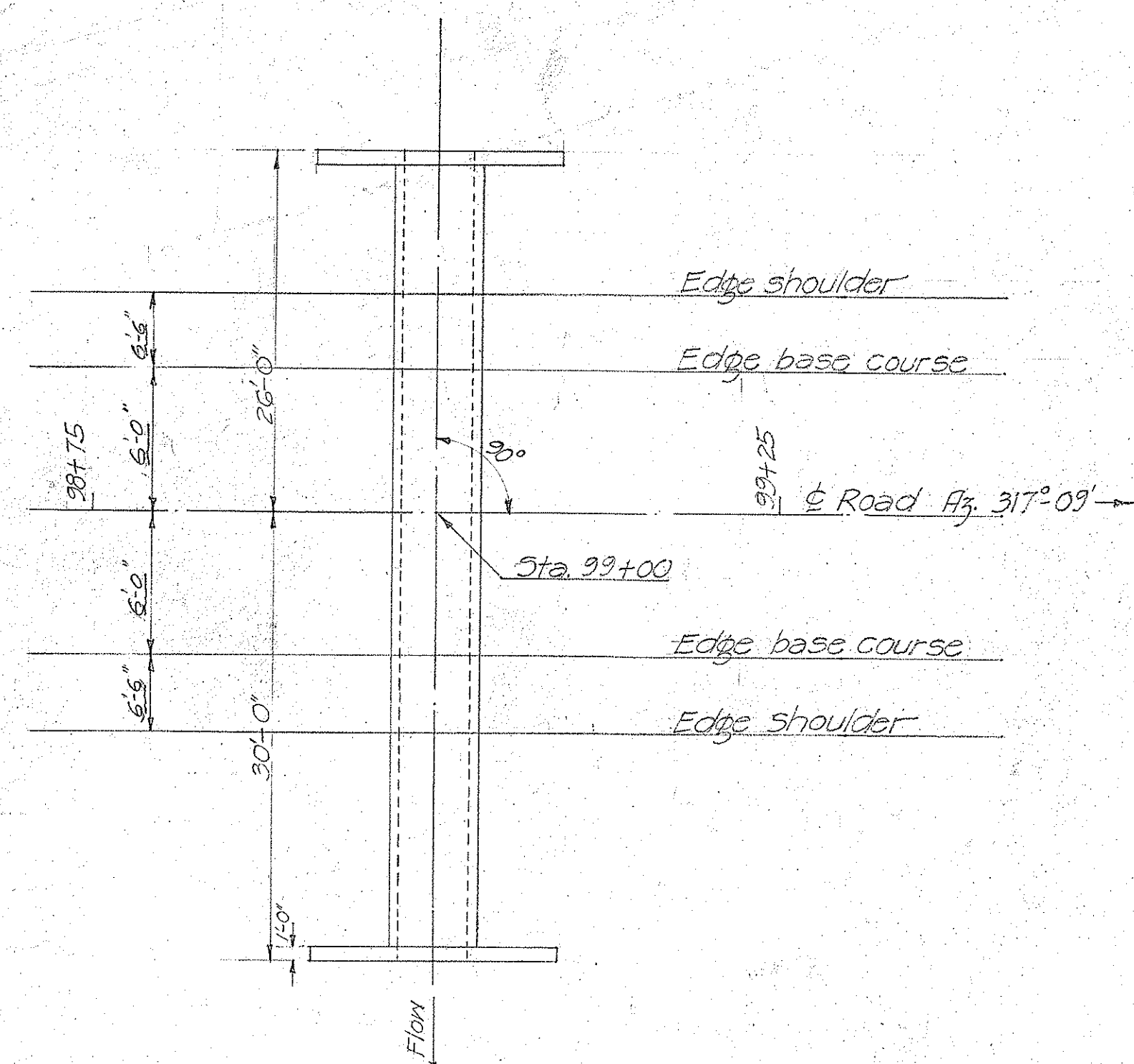
ESTIMATED QUANTITIES	
Class 'A' Conc.	65.9 C.Y.
Reinf. Steel	7,642 #
Structure Exc.	46 C.Y.



TERRITORIAL HIGHWAY DEPARTMENT
 TERRITORY OF HAWAII
 6'x4' CONC. BOX CULVERT
 SHINGLE MEMORIAL HOSPITAL LOOP
 STA. 90+90 F.A.S. 1-A
 SHEET NO. 11 OF 1 SHEETS.

4437.11

ORIGINAL	REVISION	DATE
1	1	11/1/38
2	2	11/1/38
3	3	11/1/38
4	4	11/1/38
5	5	11/1/38
6	6	11/1/38
7	7	11/1/38
8	8	11/1/38
9	9	11/1/38
10	10	11/1/38



ESTIMATED QUANTITIES
Class "A" conc. 34.5 Cu. Yds.
Reinf. Steel 3300.0 lbs.
Struct. Exc. 290 Cu. Yds.

TERRITORIAL HIGHWAY DEPARTMENT
TERRITORY OF HAWAII
5 x 3 CONC BOX CULVERT
Shingle Memorial Hospital Loop
Sta. 99+00 F.A.S. 1-A
Jan. 1938