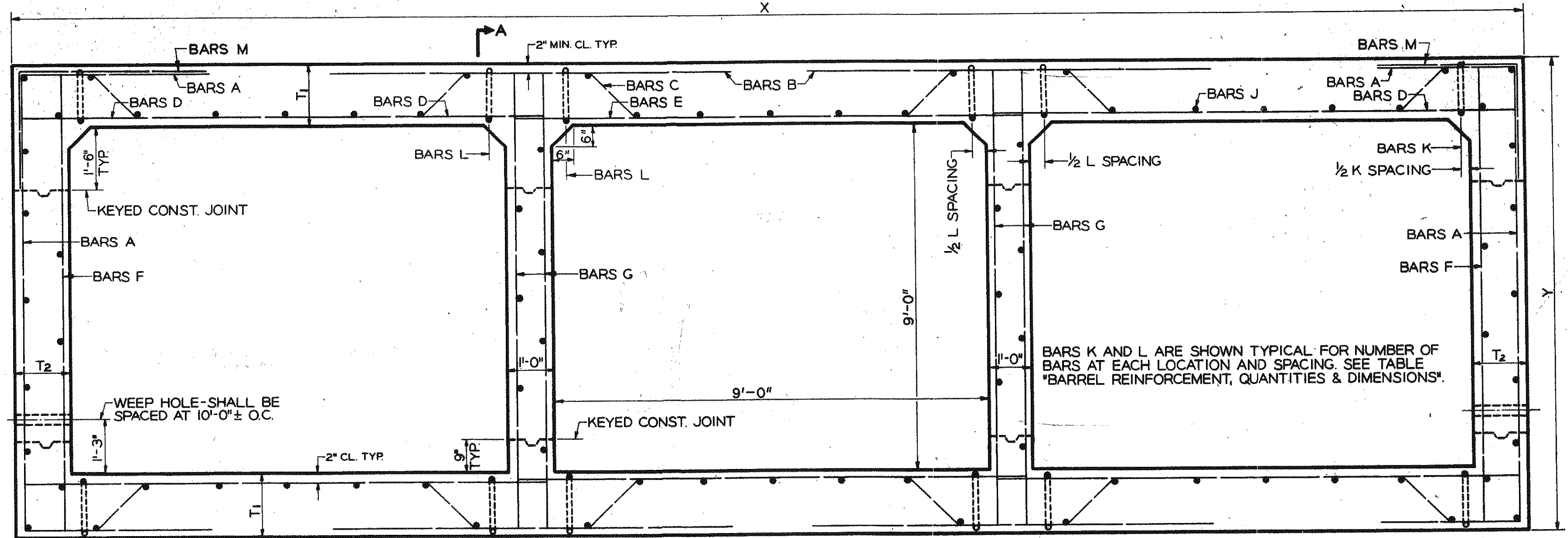


STATE	PROJECT	NUMBER	SHEET	TOTAL
GA.			No.	SHEETS

TRIPLE BOX CULVERT BARREL REINFORCEMENT QUANTITIES AND DIMENSIONS

DESIGN	1	2	3	4	5
BAR A	501 AT 12	602 AT 12	505 AT 12	605 AT 12	702 AT 13
BAR B	701 AT 12	2-603 BETWEEN	2-603 BETWEEN	1-603 & 1-701 BTWN	3-803 BETWEEN
BAR C	502 AT 12	503 AT 12	604 AT 12	606 AT 12	607 AT 13
BAR D	601 AT 12	801 AT 12	802 AT 12	901 AT 12	3-608 BETWEEN
BAR E	401 AT 12	504 AT 12	504 AT 12	504 AT 12	608 AT 13
BAR F	402 AT 12	404 AT 12	406 AT 12	401 AT 12	409 AT 12
BAR G	402 AT 12	404 AT 12	406 AT 12	401 AT 12	409 AT 12
BAR J	82-403	82-403	82-403	82-403	82-403
BAR K	--	--	2-407 AT 10	2-408 AT 9	4-410 AT 6
BAR L	--	2-405 AT 10	3-407 AT 8	5-408 AT 5	8-410 AT 4
BAR M (TOP SLAB ONLY)	--	--	--	--	609 AT 6 1/2
X	30'-8"	30'-8"	30'-10"	31'-0"	31'-3 1/2"
Y	10'-5"	10'-9 1/2"	11'-1"	11'-4"	11'-6 1/2"
T ₁	8 1/2"	10 3/4"	12 1/2"	14"	15 1/4"
T ₂	10"	10"	11"	12"	13 3/4"
CU. YDS. CONCRETE PER FT.	2.860	3.285	3.685	4.040	4.404
LB. BAR REINFC. STEEL PER FT.	347.85	474.58	518.96	612.45	901.79
HEIGHT OF FILL OVER TOP	TO 10'	TO 20'	TO 30'	TO 40'	TO 50'

NOTE: BARS B & D THAT ARE SHOWN AS 2 OR 3 BETWEEN BARS C SHALL BE EQUALLY SPACED BETWEEN BARS C.



BOTTOM SLAB REINFORCEMENT SAME AS TOP
BARREL SECTION

MARK	LENGTH	TYPE	A	B	C	D	E	F
401	11'-0"	1						
402	10'-1"	1						
403	POUR-4"	1						
404	10'-5 1/2"	1						
405	3'-5"	6	1'-1 5/8"	7 3/4"	7 3/4"			
406	10'-9"	1						
407	3'-9"	6	1'-1 3/4"	9 1/2"	9 1/2"			
408	4'-0"	6	1'-1 3/4"	11"	11"			
409	11'-2 1/2"	1						
410	4'-3"	6	1'-2 3/4"	1'-0 1/4"	1'-0 1/4"			
501	16'-7"	8	10'-1"	3'-3"	3'-3"			
502	35'-5"	7	1'-6"	5'-11"	4'-0"	4 1/2"	2'-0 1/2"	5'-3"
503	36'-3"	7	1'-6"	5'-6 1/2"	4'-0"	6 3/4"	2'-2 3/4"	4'-10 1/2"
504	11'-0"	1						
505	17'-3"	8	10'-9"	3'-3"	3'-3"			
601	10'-8"	1						
602	17'-1"	8	10'-5 1/2"	3'-3"	3'-3"			
603	8'-0"	1						
604	37'-0"	7	1'-6"	5'-7"	3'-6"	8 1/2"	2'-4 1/2"	5'-1"
605	17'-6"	8	11'-0"	3'-3"	3'-3"			
606	37'-8"	7	1'-6"	5'-5"	3'-6"	10"	2'-6"	4'-10"
607	38'-4"	7	1'-6"	5'-4 1/4"	3'-6"	11 1/4"	2'-7"	4'-7 1/2"
608	11'-0"	1						
609	6'-9 1/2"	9	4'-4"	2'-4 1/2"				
701	8'-0"	1						
702	19'-6"	8	11'-2 1/2"	* 4'-4"	3'-11 1/2"			
801	10'-8"	1						
802	10'-9"	1						
803	9'-0"	1						
901	10'-10"	1						

* IN TOP SLAB

BOX CULVERT REQUIREMENTS:

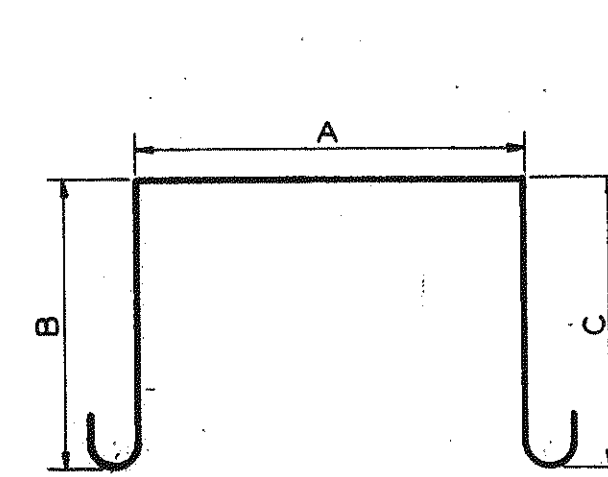
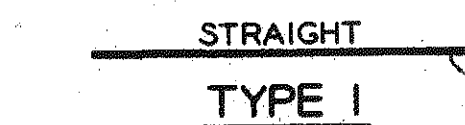
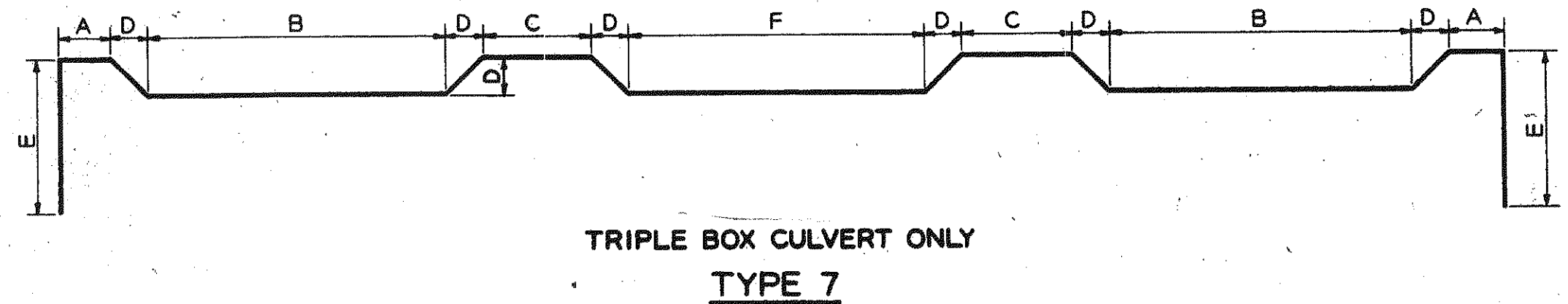
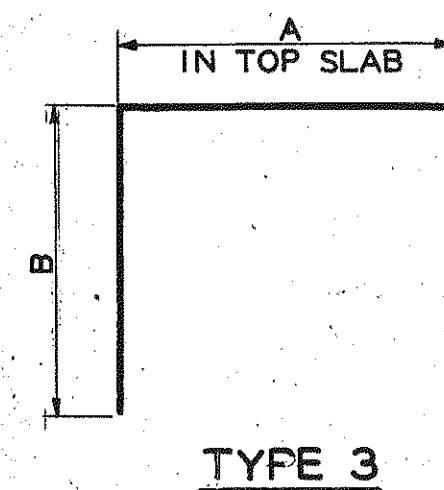
MINIMUM FILL HEIGHT FROM TOP OF CULVERT TO BOTTOM OF BASE WITHIN TRAVELWAY SHALL BE 12 INCHES.

MAXIMUM POUR LENGTH SHALL NOT EXCEED 30 FEET ALONG THE LENGTH OF THE CULVERT.

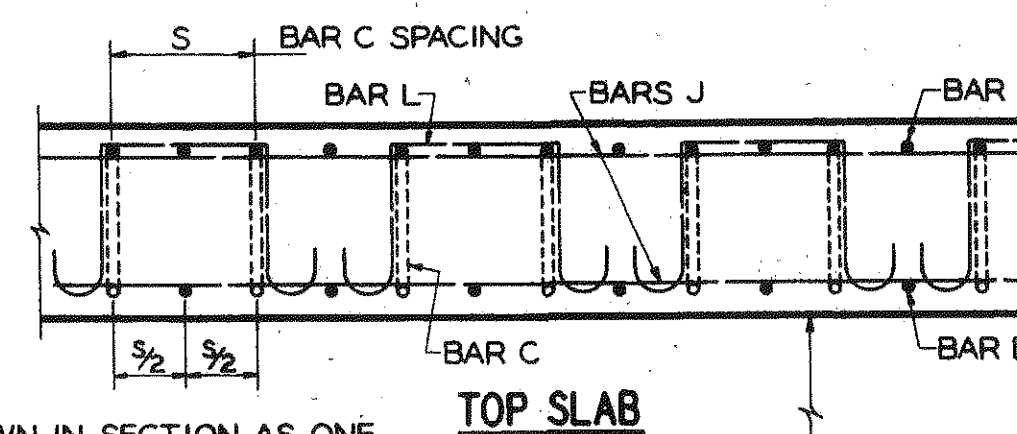
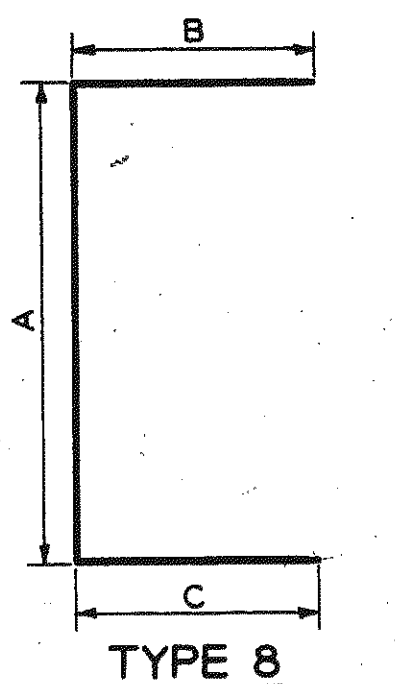
TRANSVERSE CONSTRUCTION JOINTS SHALL BE PLACED IN THE BARREL, NORMAL TO THE CENTERLINE OF CULVERT, AT THE OUTSIDE SHOULDER BREAK POINTS. LONGITUDINAL BARREL REINFORCING STEEL SHALL NOT BE CONTINUOUS THROUGH THESE JOINTS, PROVIDED THAT THE JOINTS ARE MORE THAN 15 FEET FROM THE BARREL ENDS. WHEN TRANSVERSE CONSTRUCTION JOINTS OCCUR WITHIN 15 FEET OF THE BARREL ENDS OR WITHIN THE LIMITS OF THE PAVEMENT, THE LONGITUDINAL BARREL REINFORCING SHALL THEN BE CONTINUOUS THROUGH SUCH JOINTS. THE MINIMUM LENGTH OF LAP SPLICE FOR LONGITUDINAL REINFORCING SHALL BE 24 INCHES.

TRANSVERSE CONSTRUCTION JOINTS PLACED AT ANY OTHER LOCATION NOT SPECIFIED ABOVE SHALL BE FORMED WITH NO LONGITUDINAL REINFORCING STEEL PASSING THROUGH THE JOINTS.

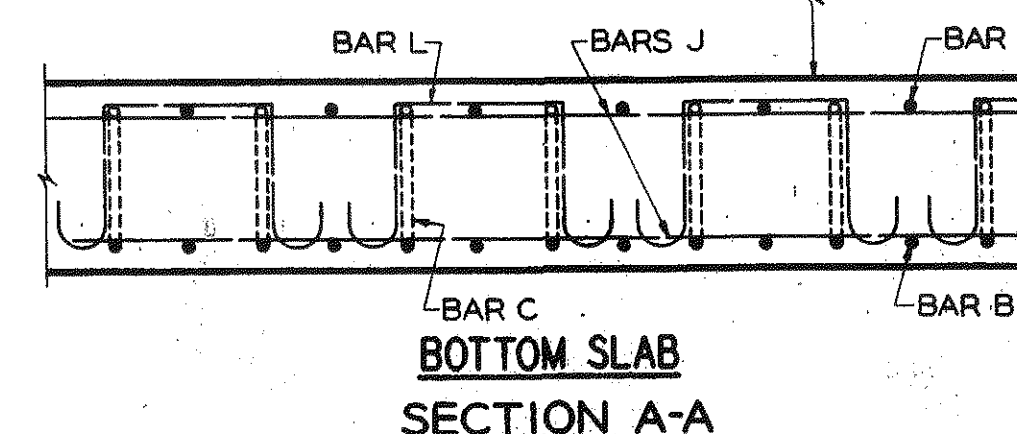
NOTE: THE DESIGN OF CULVERT SHALL BE DETERMINED BY THE MAXIMUM HEIGHT OF FILL WITH ONLY A SINGLE DESIGN BEING USED FOR THE ENTIRE INSTALLATION.



FABRICATE HOOKS IN PLANE 90° TO DIMENSIONS A, B, & C.



NOTE: BARS B SHOWN IN SECTION AS ONE BAR EQUALLY SPACED BETWEEN BARS C. TWO BARS B EQUALLY SPACED BETWEEN BARS C SHALL BE USED WHEN REQUIRED.



NOTE: BEND LONGITUDINAL BARS INTO WINGS AND PARAPETS SIMILAR TO STANDARDS. IF CULVERT IS SKEWED CUT TRANSVERSE STEEL AND BEND 12" INTO PARAPET OR TOE WALL AND HOOK.

NOTE: DESIGNED BY COMPUTER METHOD.

ADD REQUIREMENT NOTE 11-21-01

DATE	REVISIONS
12-23-74	ADD NOTE
12-23-74	DELETE BAR INCREASE TAG
12-23-74	BAR C & D DIM. D
12-23-74	ADD FILL HEIGHT NOTE

DEPARTMENT OF TRANSPORTATION
STATE OF GEORGIA

REINFORCED CONCRETE BOX CULVERT
TRIPLE 9' X 9'

NO SCALE

MARCH 1967

DESIGNED	E.E.L.	TRACED	GMB-LR	REVIEWED	R.K.J.
DRAWN	P.D.P.	CHECKED		APPROVED	