

TRIPLE BOX CULVERT BARREL REINFORCEMENT QUANTITIES AND DIMENSIONS					
DESIGN	1	2	3	4	5
T ₁	12"	14 1/2"	17"	20"	
T ₂	12"	12"	14"	16"	
X	34'-0"	34'-0"	34'-4"	34'-8"	
Y	11'-0"	11'-5"	11'-10"	12'-4"	
BAR A	511 AT 12" O.C.	521 AT 12" O.C.	631 AT 12" O.C.	641 AT 12" O.C.	
BAR B	512 AT 4" O.C.	721 AT 4" O.C.	731 AT 4" O.C.	841 AT 4" O.C.	
BAR C	513 AT 12" O.C.	522 AT 12" O.C.	531 AT 12" O.C.	541 AT 12" O.C.	
BAR D	514 AT 12" O.C.	621 AT 12" O.C.	732 AT 12" O.C.	741 AT 12" O.C.	
BAR E	411 AT 12" O.C.	421 AT 12" O.C.	431 AT 12" O.C.	441 AT 12" O.C.	
BAR F	515 AT 12" O.C.	523 AT 12" O.C.	532 AT 12" O.C.	542 AT 12" O.C.	
BAR G	515 AT 12" O.C.	523 AT 12" O.C.	532 AT 12" O.C.	542 AT 12" O.C.	
BAR J	110-412	110-422	110-432	110-442	
BAR K	1-413	1-423	1-433	2-443 AT 8"	
BAR L	1-413	1-423	2-433 AT 10"	3-443 AT 8"	
**CU. YDS. CLASS "A" CONC.	3.88	4.40	5.08	5.86	
**LBS. BAR REINF. STEEL	410	502	564	634	

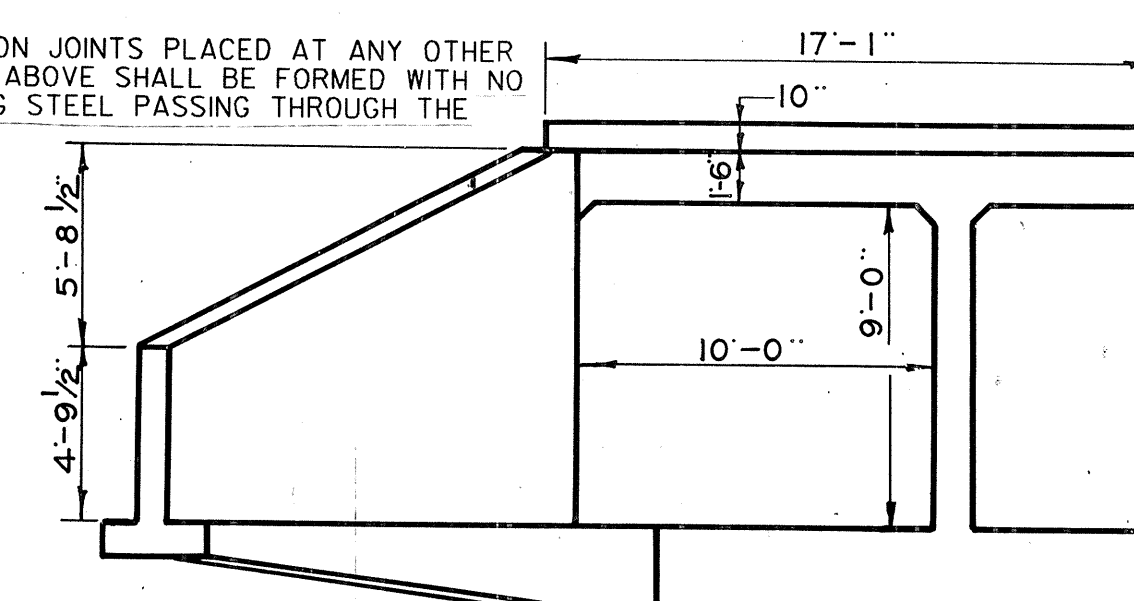
**PER LINEAR FOOT

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.

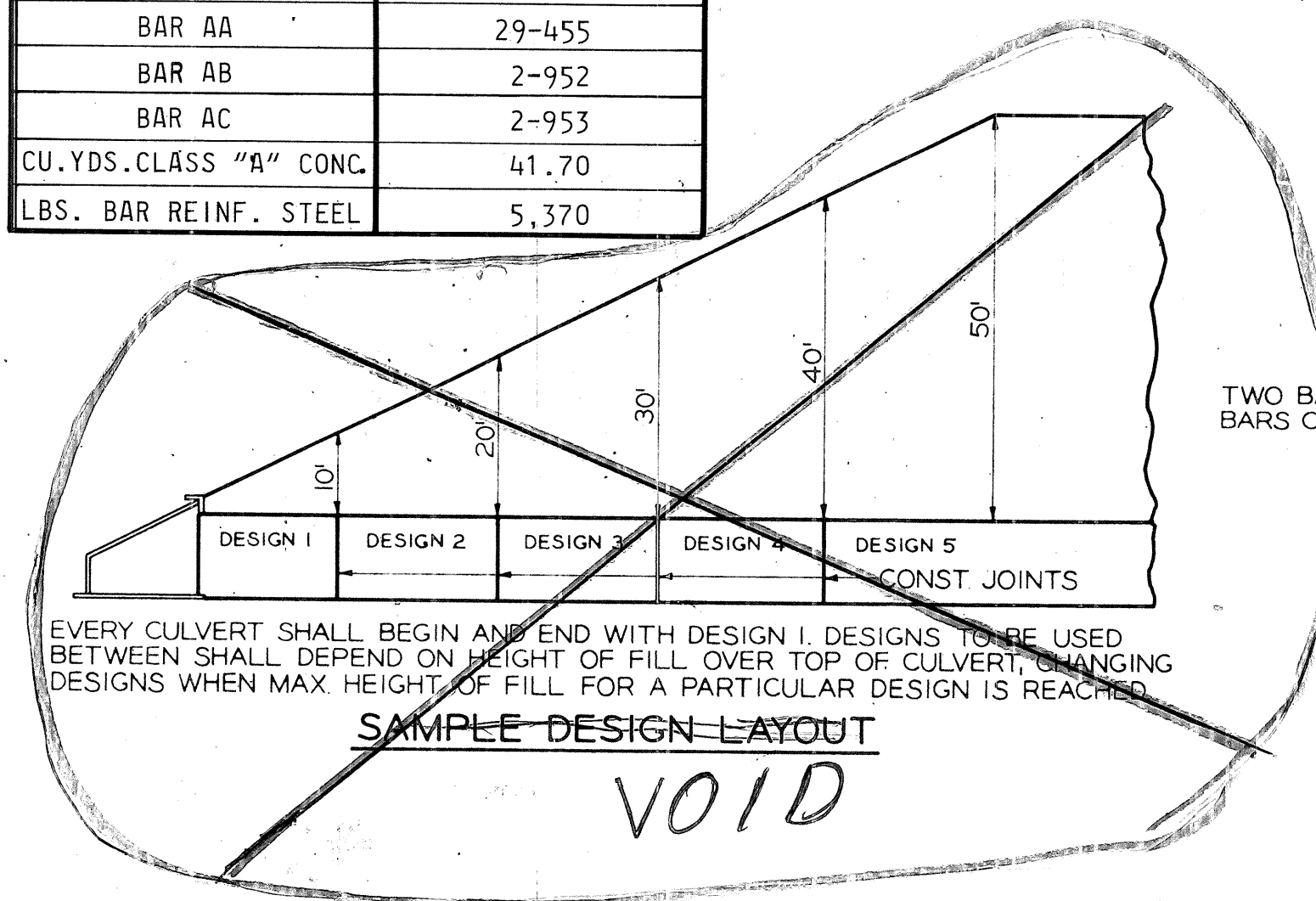
TRANSVERSE CONSTRUCTION JOINTS SHALL BE PLACED IN THE BARREL, NORMAL TO THE CENTERLINE OF CULVERT, AT THE OUTSIDE SHOULDER BREAK POINTS. LONGITUDINAL BARREL REINFORCING STEEL SHALL NOT BE CONTINUOUS THROUGH THESE JOINTS, PROVIDED THAT THE JOINTS ARE MORE THAN 15 FEET FROM THE BARREL ENDS.
WHEN TRANSVERSE 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.



HALF ELEVATION
NO SCALE

MODIFIED QUALITY	
ITEM	
BAR PA	29-454
BAR PB	2-951
BAR PC	2-952
BAR AA	29-455
BAR AB	2-952
BAR AC	2-953
CU. YDS. CLASS "A" CONC.	41.70
LBS. BAR REINF. STEEL	5,370



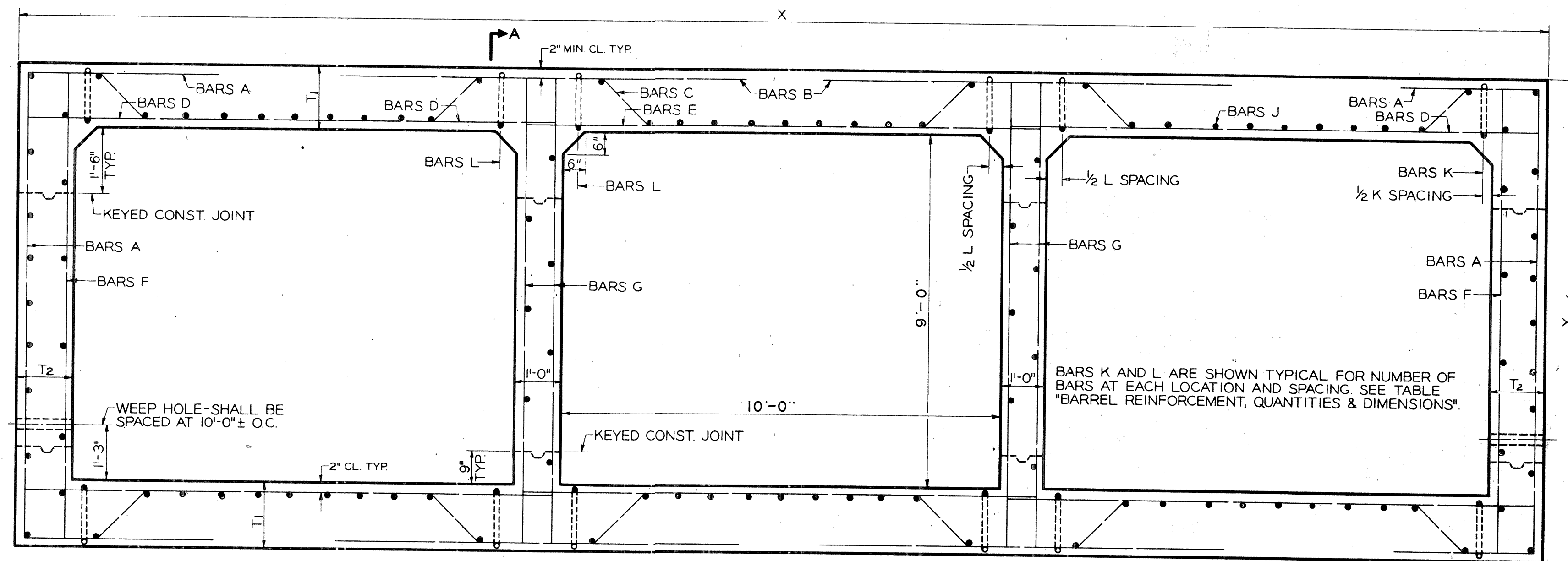
SAMPLE DESIGN LAYOUT

VOID

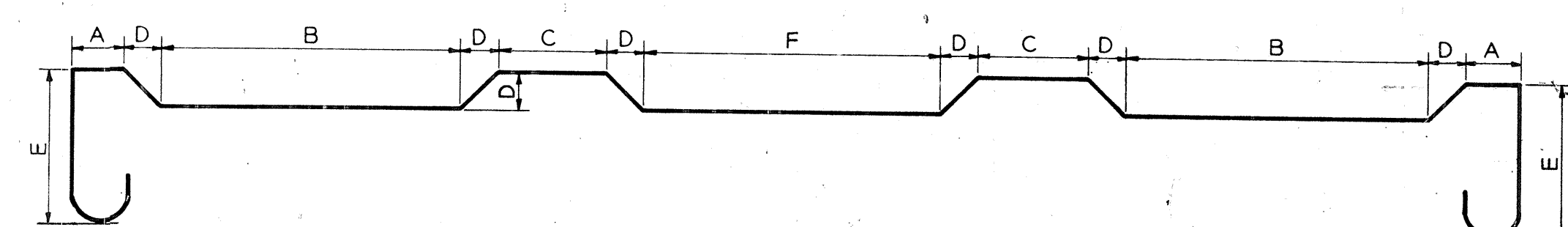
NOTE: BARS B THAT ARE SHOWN AS TWO BETWEEN BARS C SHALL BE EQUALLY SPACED BETWEEN BARS C.

NOTE:

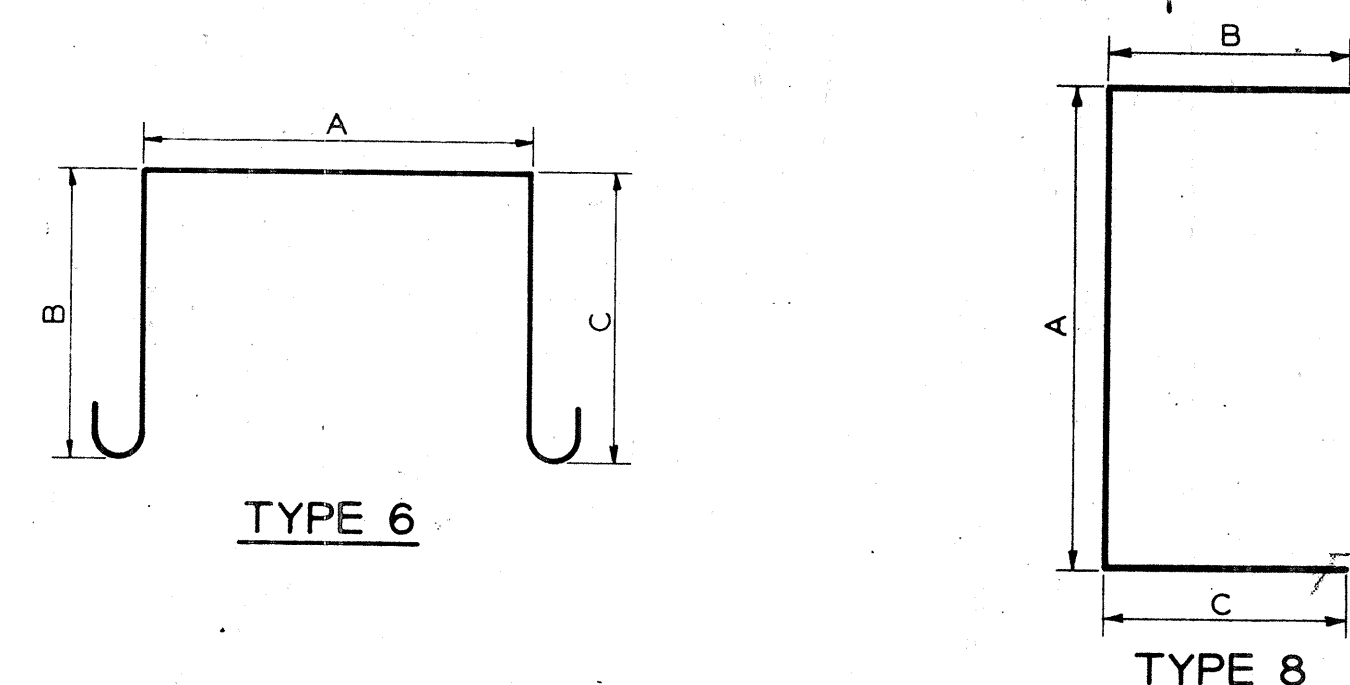
The Design of culvert shall be determined by the maximum height of fill over top with only a single design being used for the entire installation.



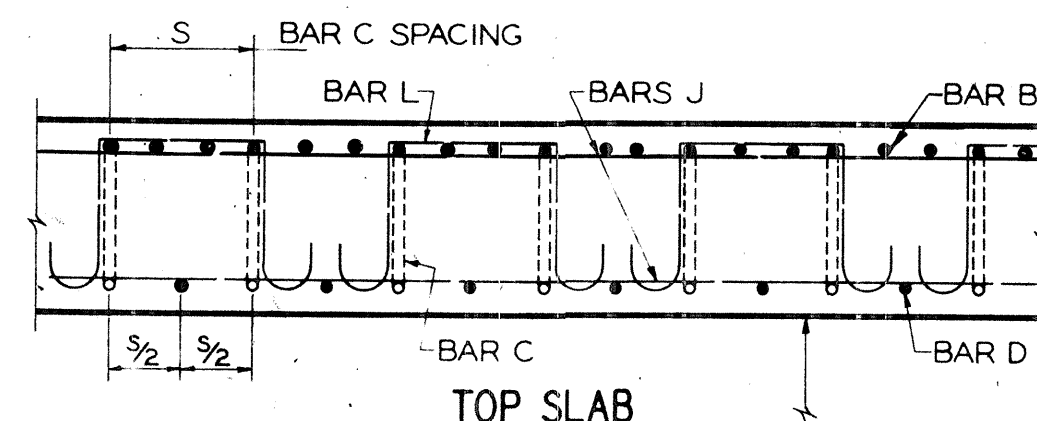
BOTTOM SLAB REINFORCEMENT SAME AS TOP
BARREL SECTION



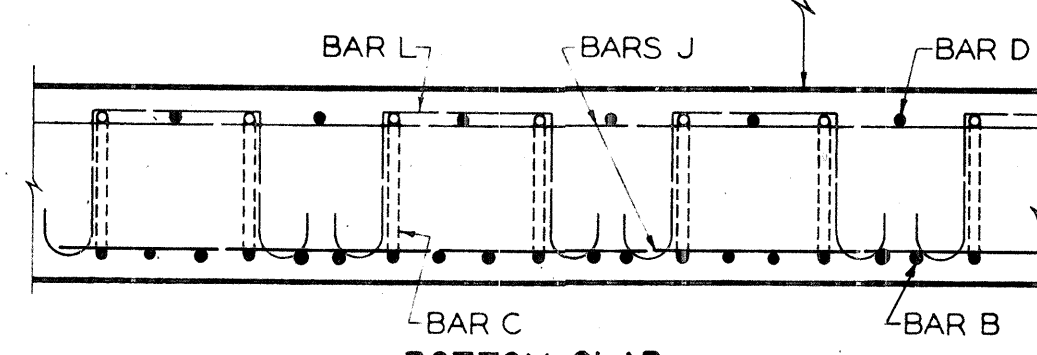
TRIPLE BOX CULVERT ONLY
TYPE 7



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



TOP SLAB



BOTTOM SLAB
SECTION A-A

DEPARTMENT OF TRANSPORTATION STATE OF GEORGIA	
REINFORCED CONCRETE BOX CULVERT TRIPLE 10' X 9' SPECIAL DESIGN	
NO SCALE	
APRIL 1961	
DESIGNED D.M.B. DRAWN P.D.P.	TRACED G.M.B.-L.R. CHECKED O.P.G. J.K.
REVIEWED R.K.J. APPROVED	