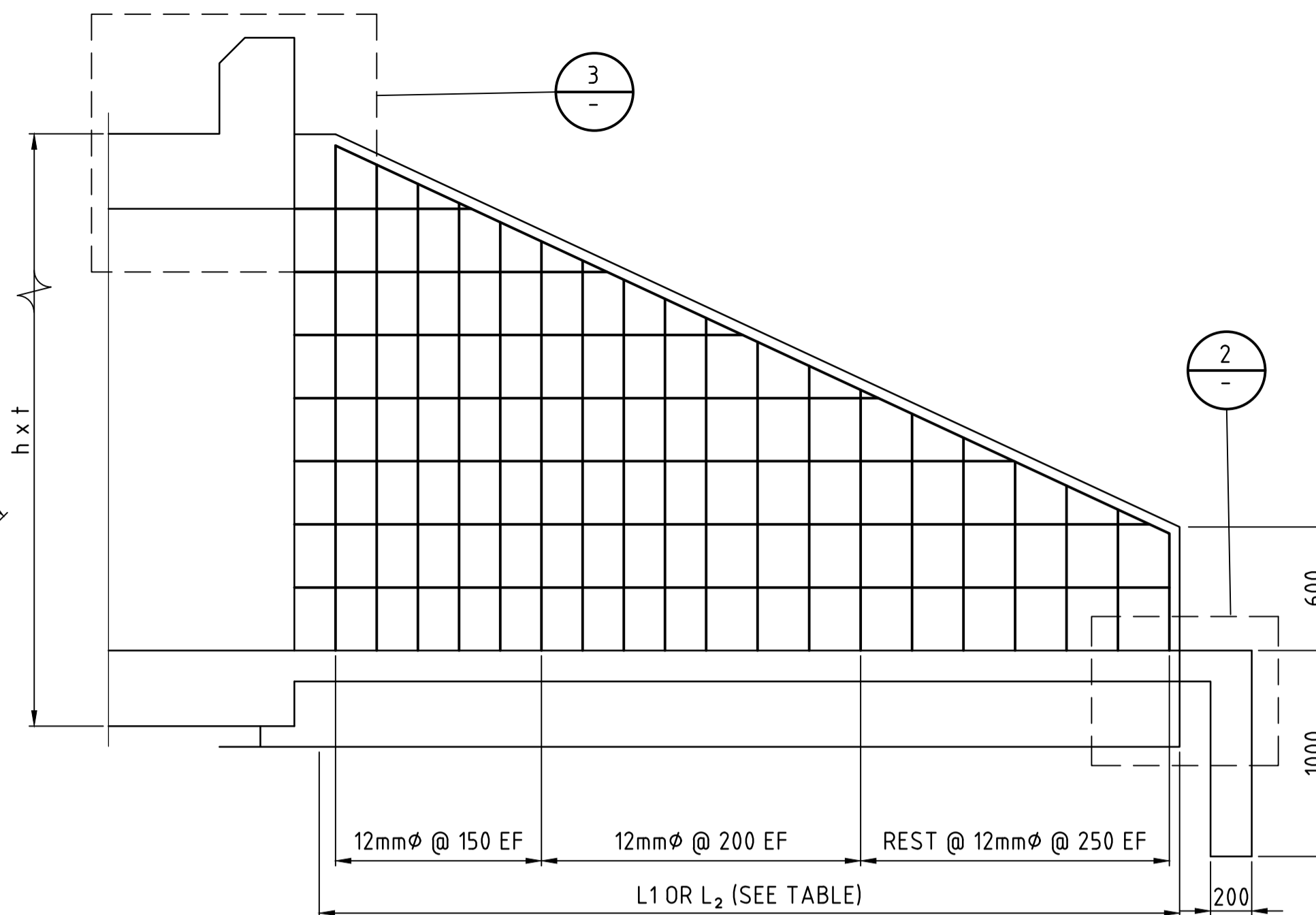


A C - WING PLAN
D-7 SCALE: N.T.S.

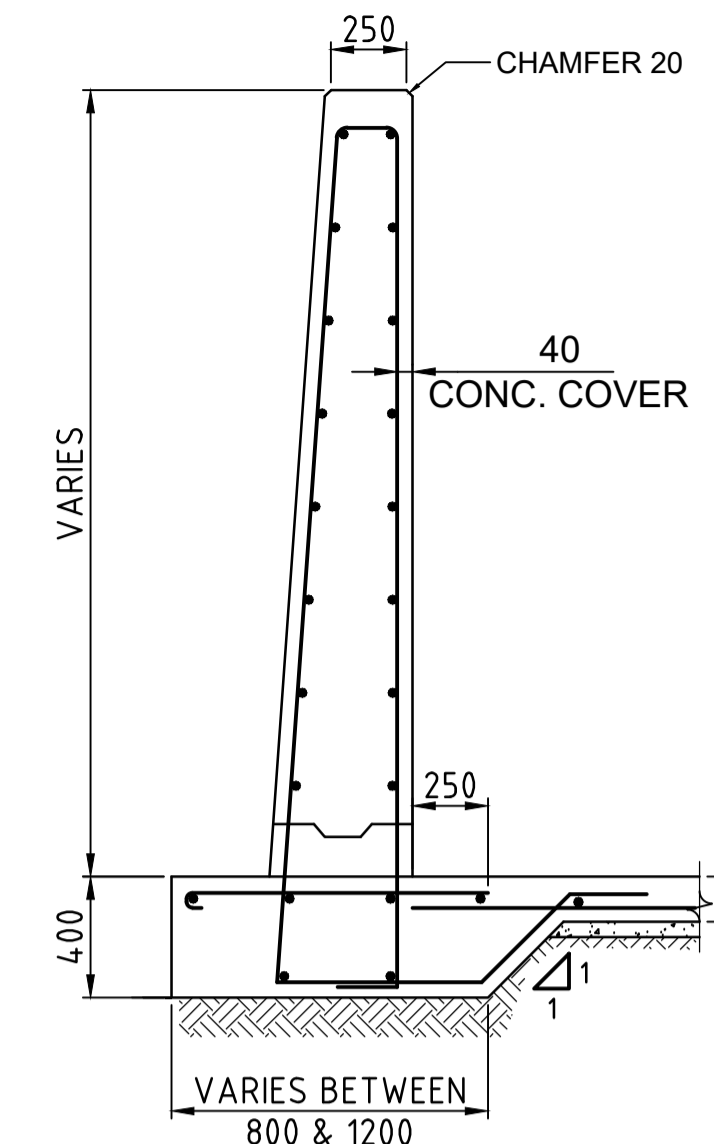
HORIZONTAL SKEW ANGLE °C	LENGTH OF WINGWALLS
0	$L_1 = L_2 = 1.414 c$
30°	$L_1 = 1.414a, L_2 = 1.035c$
45°	$L_1 = 2.0c, L_2 = c$

WHERE :
 $c = 1.5 (h+t-600)$ FOR SLOPE 1.5:1
 $c = 2.0 (h+t-600)$ FOR SLOPE 2:1



WHERE T = THICKNESS OF CULVERT WALL OR SLAB
 $a = 0.30 - b$
 $b = 0.25 \sin G$
 $x = \frac{0.25}{\sin G} \frac{t}{\sin C}$

B SECTIONAL ELEVATION
D-7 SCALE: N.T.S.



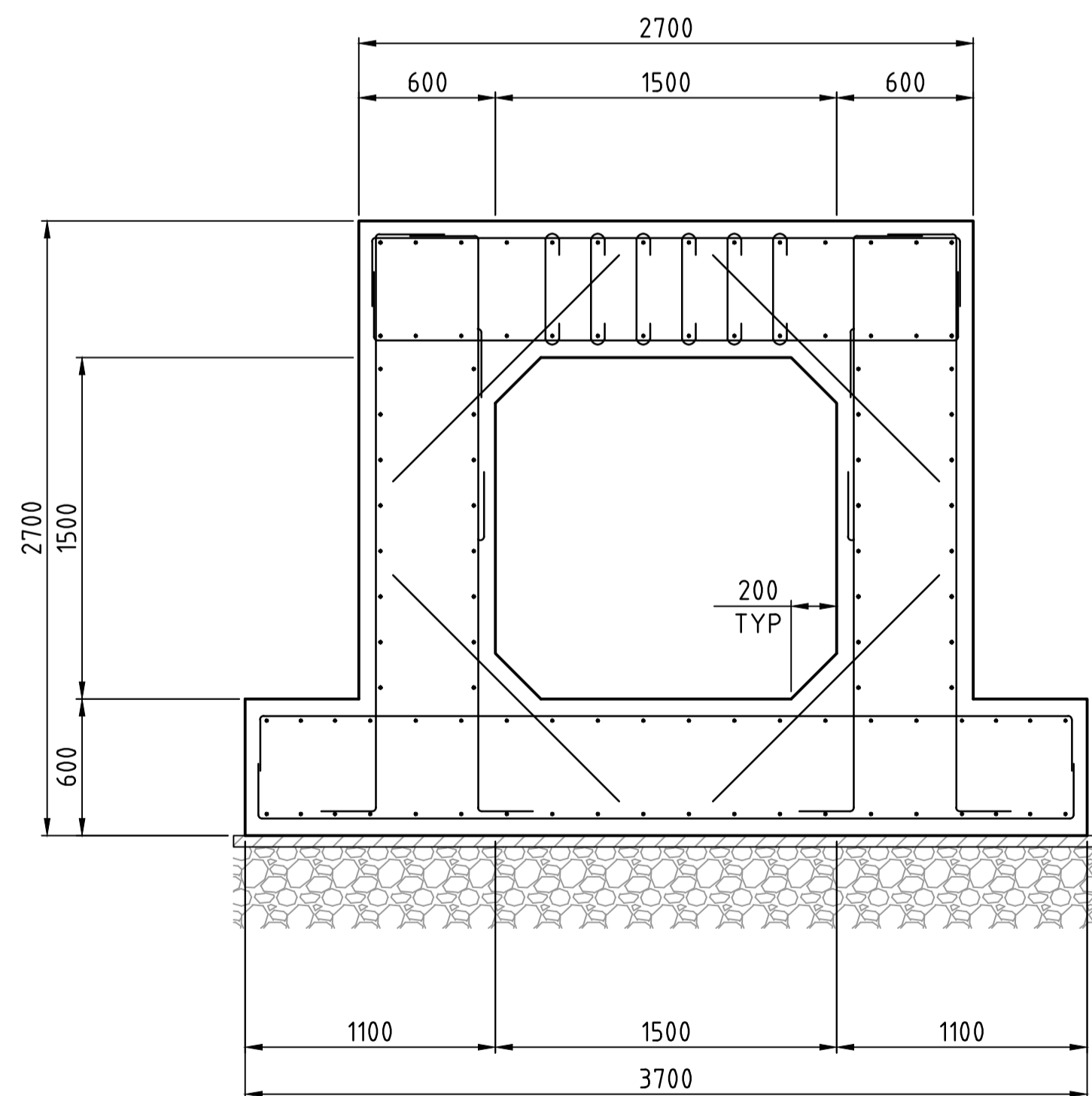
C SECTION
D-7 SCALE: N.T.S.

GENERAL NOTES:

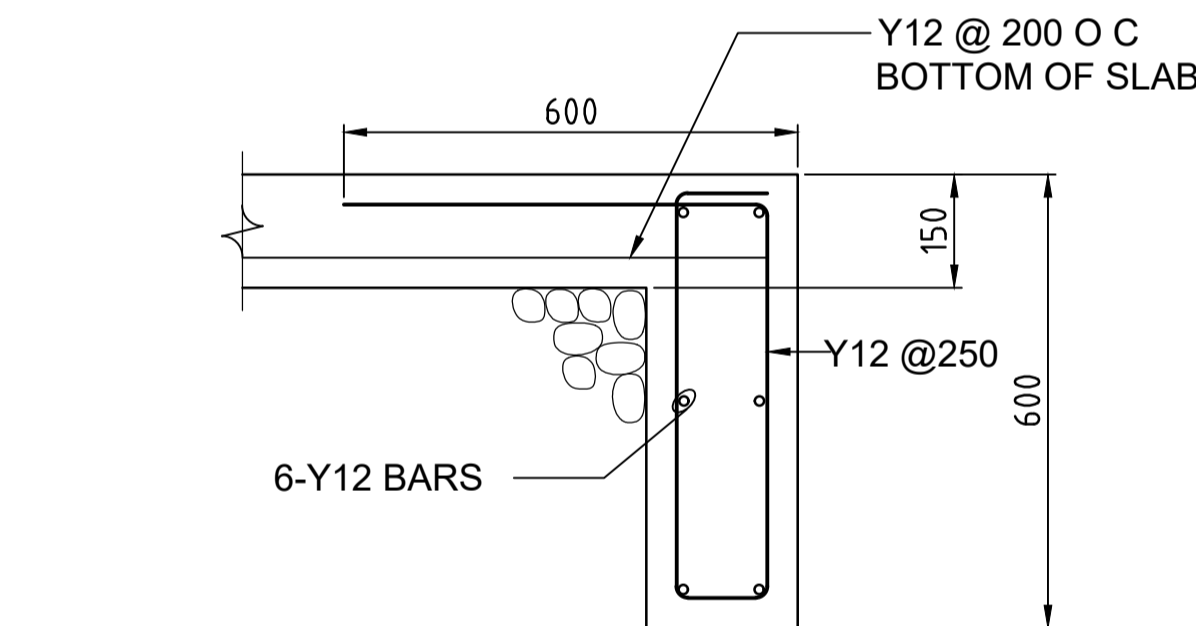
- CONCRETE :**
 ALL CONCRETE SHALL HAVE A MINIMUM COMPRESSIVE STRENGTH AT 28 DAYS OF $f_c = (5000 \text{ psi})$ ALL EXPOSED CORNERS CHAMFERED 20 mm. NO CONSTRUCTION JOINT ARE TO BE MADE EXCEPT WHERE SHOWN WHEN BOTTOM SLAB IS SUBJECT TO ABRASION, ADD 25 mm TO BOTTOM SLAB TO INCREASE COVER ON STEEL.
- STEEL REINFORCEMENT :**
 ALL REINFORCING STEEL $\phi 16$ AND LARGER SHALL BE GRADE 60.
- GENERAL :**
 THE TOP OF SURFACE OF THE UPPER SLAB SHALL FOLLOW THE APRON FINISHED SURFACE / CROWN OF THE FINISHED TAXIWAYS. THE BOX CULVERT SHALL BE CONSTRUCTED ON A LAYER OF LEAN CONCRETE OF 50 mm MINIMUM THICKNESS.
- PROVIDE ISOLATION JOINT BETWEEN APRON PAVEMENT AND BOX CULVERT .
- LIVE LOAD DISTRIBUTION REINFORCEMENT :
 CORRESPONDING TO F900 WITH TOP SLAB AS RUNNING SURFACE

LINEAR DRAIN TYPE	A	B	C
	mm	mm	mm
UA00028	300	538	587
UA00029	350	596	645
UA00030	400	653	713
UA00031	500	769	829
UA00032	600	1031	1091

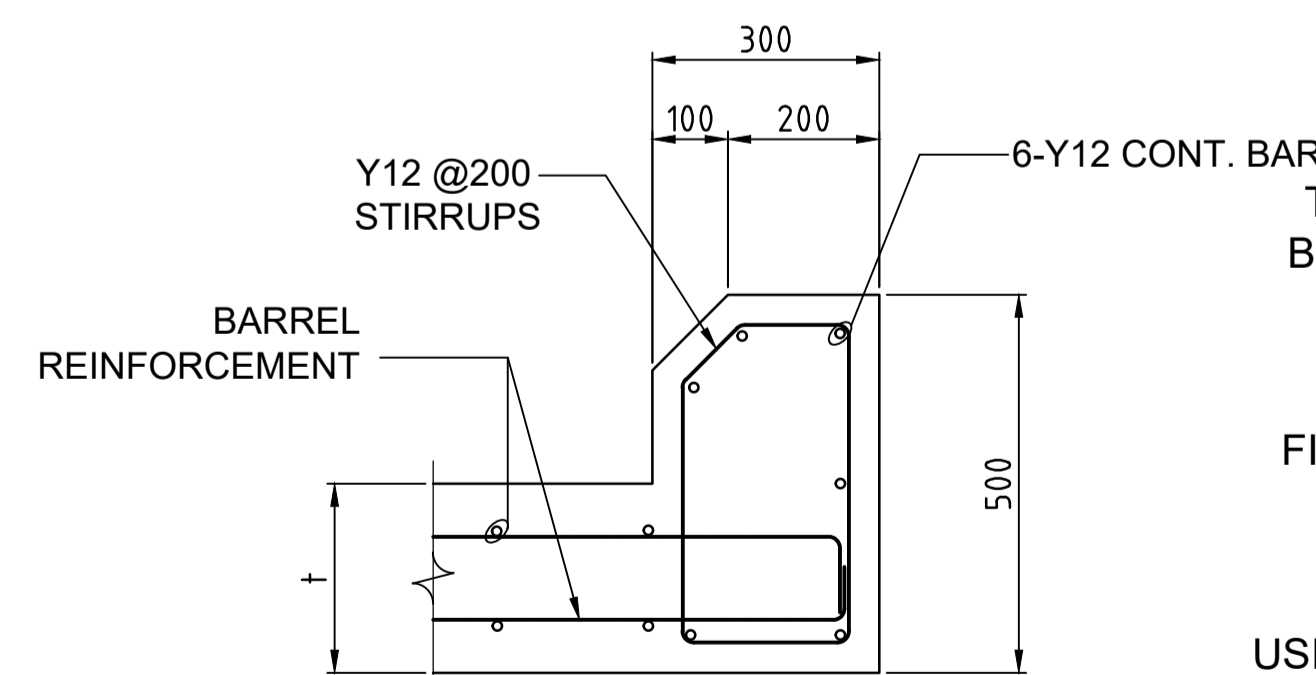
LINEAR DRAIN DIMENSIONS



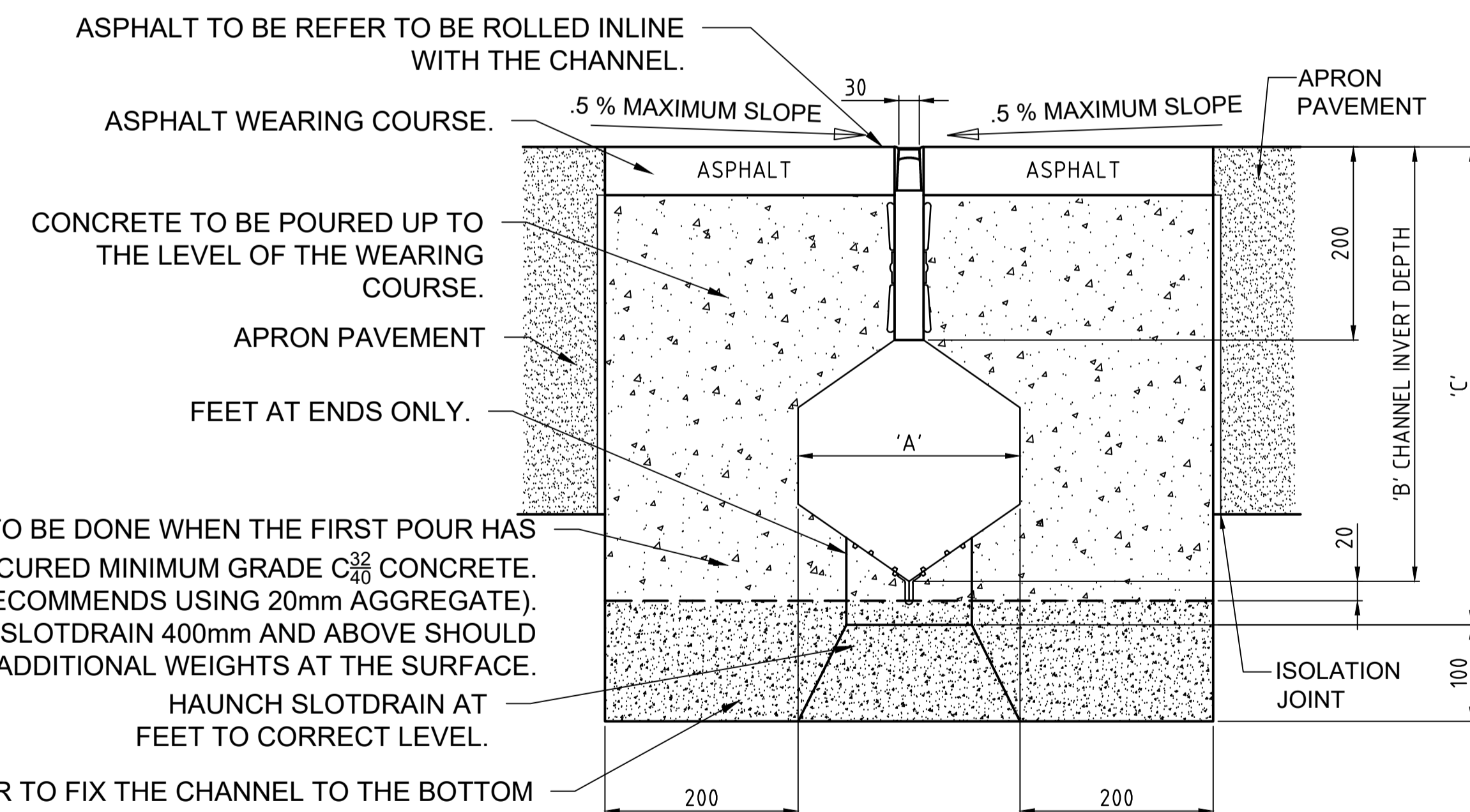
1 1.50 x 1.50 BOX CULVERT - DETAIL
D-7 SCALE: N.T.S.



2 DETAIL
D-7 SCALE: N.T.S.



3 DETAIL
D-7 SCALE: N.T.S.



ASPHALT TO BE REFER TO BE ROLLED INLINE WITH THE CHANNEL.

ASPHALT WEARING COURSE.

CONCRETE TO BE POURED UP TO THE LEVEL OF THE WEARING COURSE.

APRON PAVEMENT

FEET AT ENDS ONLY.

SECOND POUR TO BE DONE WHEN THE FIRST POUR HAS SUFFICIENTLY CURED MINIMUM GRADE C32/40 CONCRETE. (GATIC RECOMMENDS USING 20mm AGGREGATE). TO AVOID FLOTATION SLOTDRAIN 400mm AND ABOVE SHOULD BE RESTRAINED WITH ADDITIONAL WEIGHTS AT THE SURFACE.

HAUNCH SLOTDRAIN AT FEET TO CORRECT LEVEL.

FIRST CONCRETE POUR TO FIX THE CHANNEL TO THE BOTTOM OF THE TRENCH MINIMUM GRADE C23/40 CONCRETE (GATIC RECOMMENDS USING 20mm AGGREGATE) TO 20mm BELOW THE INVERT OF THE CHANNEL TO ALLOW THE CONCRETE TO FLOW UNDERNEATH.

4 LINEAR DRAIN DETAIL
D-7 SCALE: N.T.S.

NOTE:

- IF THIS DRAWING HAS BEEN RECEIVED ELECTRONICALLY, IT IS THE RECIPIENTS RESPONSIBILITY TO PRINT THE DOCUMENT TO THE CORRECT SCALE.
- THIS DRAWING SHOULD BE READ IN CONJUNCTION WITH OTHER RELEVANT DRAWINGS AND SPECIFICATIONS.
- ALL DIMENSION IN METER UNLESS OTHERWISE SHOWN.

CONSULTANTS:	DRAWN BY:	R.A.B.C.	SUBMITTED BY:	RECOMMENDING APPROVAL:	APPROVED BY:	PROJECT TITLE :	DRAWING STATUS:	FINAL	SET NO.	SHEET NO.
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	DWGS. CHK. BY:	A.T.C.				SHEET CONTENTS:	REINFORCED CONCRETE BOX CULVERTS (DRAINLINE N) LINEAR DRAIN DETAIL	REVISION Δ :		