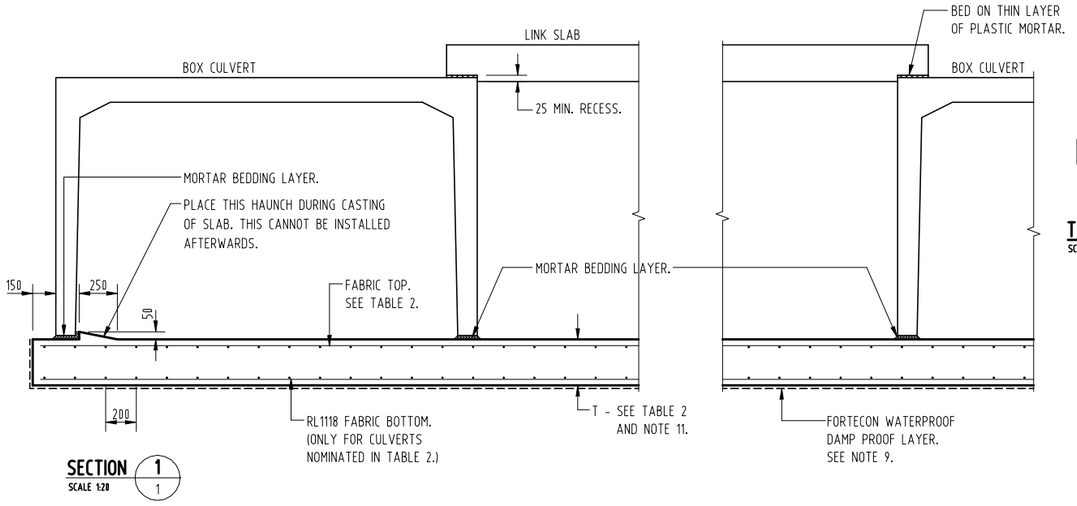
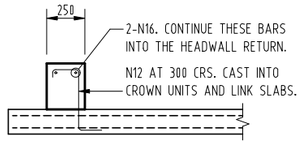
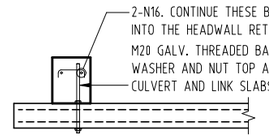


SECTION 1 / 1
SCALE 1:20

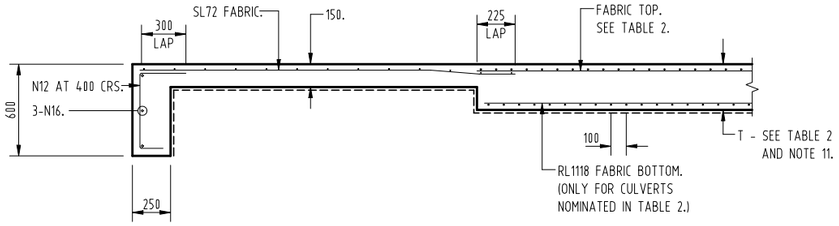


TYPICAL HEAD WALL REINFORCEMENT
SCALE 1:20

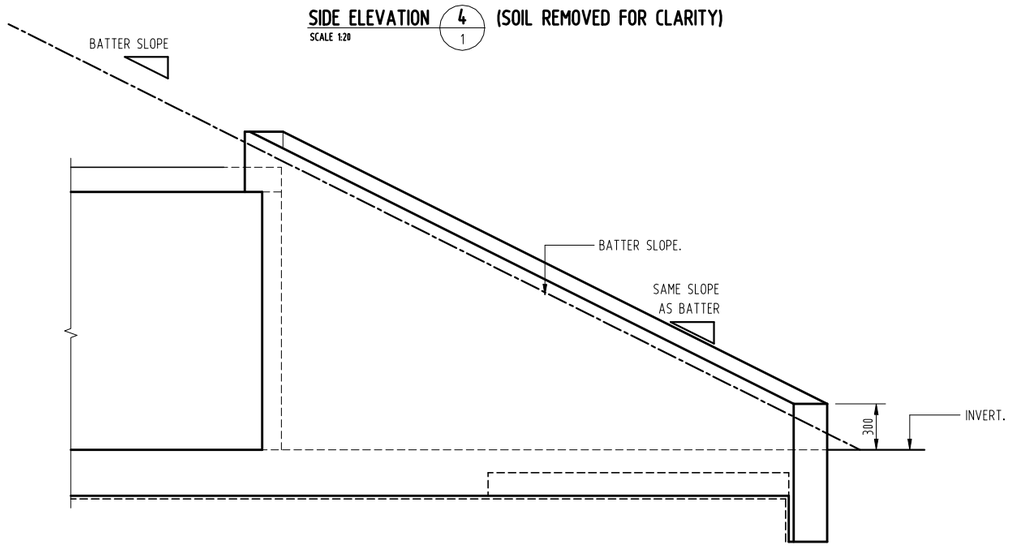


ALT. SITE FIXED HEAD WALL DETAIL
SCALE 1:20

SIDE ELEVATION 4 / 1 (SOIL REMOVED FOR CLARITY)
SCALE 1:20



SECTION 2 / 1
SCALE 1:20



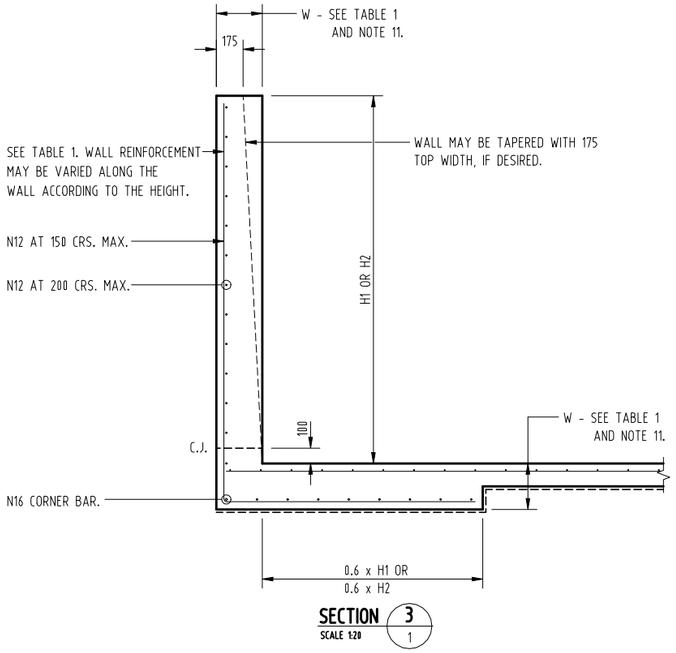
SIDE ELEVATION 8 / 1 (SOIL REMOVED FOR CLARITY)
SCALE 1:20

TABLE 1 WALL THICKNESS

WALL HEIGHT H mm	THICKNESS W mm (SEE NOTE 11)
BELOW 1800	175
UP TO 2700	250
UP TO 3700	300

TABLE 2 SLAB DETAILS

CULVERT SPAN mm	MAXIMUM DEPTH FILL mm	SLAB THICKNESS (SEE NOTE 11) T mm	REINFORCEMENT IN BOTTOM	REINFORCEMENT IN TOP
450	2400	150	-	RL718
600	2400	150	-	RL718
750	2400	150	-	RL818
900	2400	150	-	RL918
1200	2400	175	-	RL1118
1500	2400	200	-	RL1218
1800	2400	190	RL1118	RL1118
2100	2100	205	RL1118	RL1118
2400	2100	205	RL1118	RL1118
2700	1800	215	RL1118	RL1118
3000	1800	215	RL1118	RL1118



SECTION 3 / 1
SCALE 1:20

NOTES:-

1. LARGE SPAN CULVERTS MAY NOT BE ABLE TO ACCOMMODATE HIGH SKEW ANGLES. TREAT EACH CULVERT ON ITS MERITS.
2. AT VERY HIGH SKEW ANGLES THE CULVERT MAY REQUIRE LENGTHENING AND USE OF A SMALLER RELATIVE SKEW ANGLE.
3. CROWN UNITS SHALL BE DESIGNED AND MANUFACTURED TO A.S.1597.
4. DESIGN FOR HLP400 LOADS FOR CULVERTS ON NATIONAL HIGHWAYS AND HLP320 OTHERWISE.
5. WING WALLS AND BASE SLABS ARE DESIGNED IN ACCORDANCE WITH THE AUSTROADS BRIDGE CODE. BASE SLABS ARE DESIGNED FOR HLP400 AND T44 LOADS.
6. USE N32 CONCRETE AND 45 COVER.
7. IN SALT-RICH AREAS OR IN TIDAL OR SALT SPLASH ZONES INCREASE COVER TO 70 AND USE N50 CONCRETE.
8. IN SOFT WATER OR CONSTANTLY RUNNING WATER, SPECIAL PRECAUTIONS SHALL BE TAKEN. REFER SPECIALIST LITERATURE.
9. FORTECON LAYER MAY BE OMITTED IF BOTTOM COVER AND MEMBER THICKNESS ARE BOTH INCREASED BY 15mm.
10. COMPLY WITH A.S.3600, A.S.3610 AND A.S.1379.
11. INCREASE W AND T BY 25mm IN SALT RICH SOIL OR TIDAL ZONES.

No.	DESCRIPTION	DATE	INIT.
AMENDMENTS			

DRAWN S.H.W. DATE AUGUST 2001	CHECKED DATE		
DESIGNED G.C. DATE AUGUST 2001	CHECKED DATE		
DESIGN PROJECT LEADER G.A. Cuson DATE 04 June 2002	PROJECT OFFICER DATE		

Northern Territory Government
Department of Planning and Infrastructure

STANDARD DRAWING
REINFORCED CONCRETE BOX CULVERTS WITH SKEWS UP TO 30°
-

CONCRETE AND REINFORCEMENT DETAILS SHEET 2

FILE No.	SHEET No.	DRAWING NUMBER	AMEND.	SHEET SIZE
-	2 OF 3	C(S)-1120	-	A1