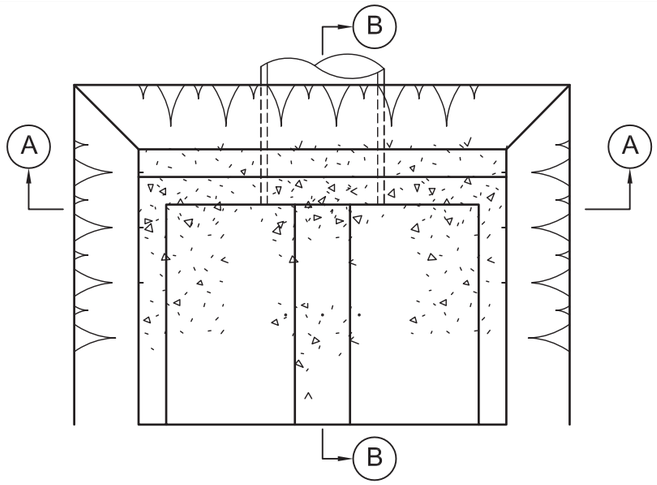
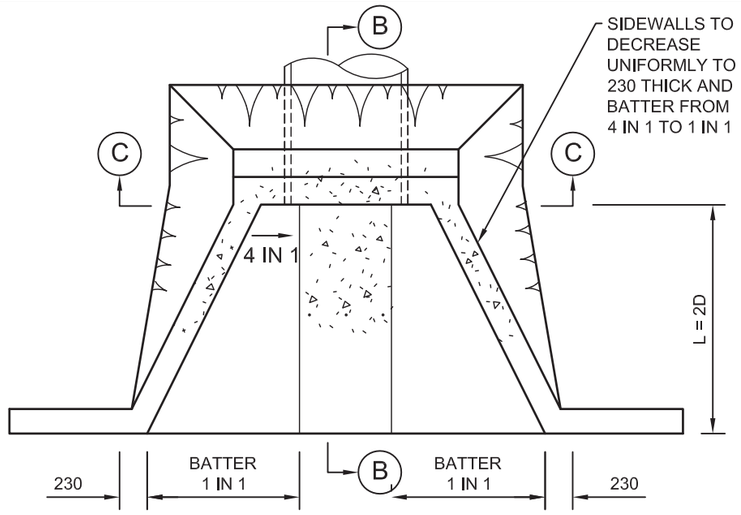
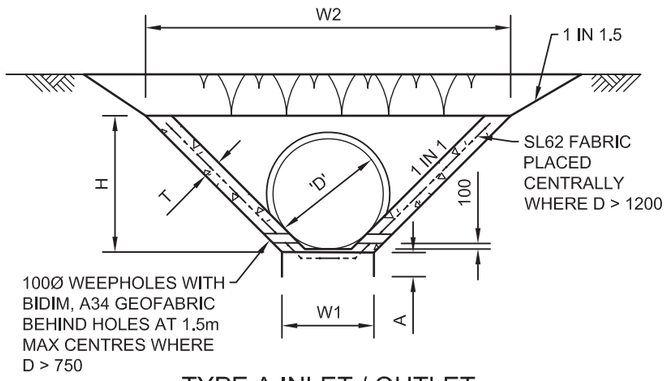


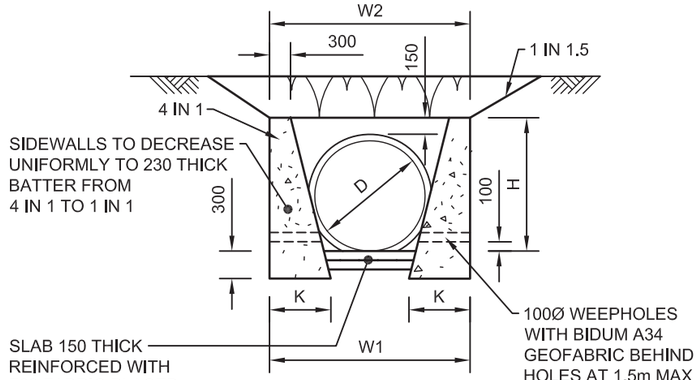
TYPE A INLET / OUTLET
PLAN



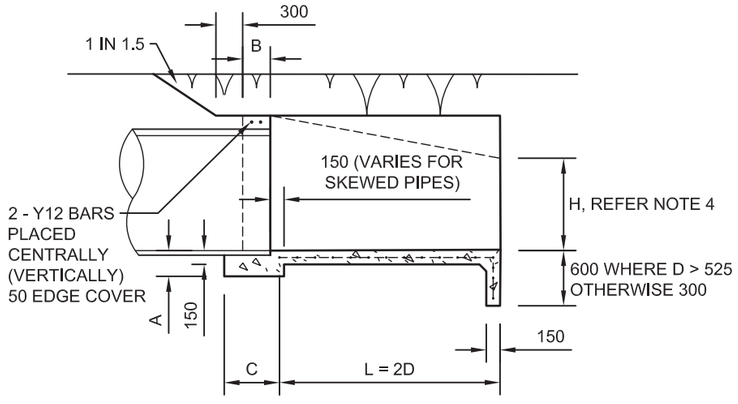
TYPE B INLET / OUTLET
PLAN



TYPE A INLET / OUTLET
SECTION A - A



TYPE B INLET / OUTLET
SECTION C - C



TYPE A INLET / OUTLET
SECTION B - B

DIMENSION	PIPE DIAMETER (D)				
	1350	1500	1650	1800	1950
K	800	840	875	920	960
H	2000	2160	2300	2460	2640
W1	2060	2250	2440	2630	2840
W2	2060	2250	2440	2630	2840

TYPE B INLET / OUTLET
DIMENSIONS

DIA. = 1350 TO 1950
HEADWALL CAST INSITU TO MATCH BATTER SLOPE

NOTES:

TRASH RACKS FOR NEW WORKS

1. DESIGN BEARING PRESSURE 75 KPA. WHERE THIS BEARING PRESSURE CANNOT BE OBTAINED, THE SUPERINTENDENT MAY DIRECT THAT A WIDER FOOTING BE USED
2. CONCRETE N20 OR GRADE S32/10 SHOTCRETE MAY BE USED IN ACCORDANCE WITH AS 1379 AND AS 3600
3. IN TIDAL AREAS WHERE FABRIC REINFORCEMENT IS SPECIFIED, CONCRETE IS TO BE SULPHATE RESISTANT GRADE S40 TO AS 1379 AND AS 3600
4. IN EMBANKMENT SITUATIONS, THE HEIGHT OF THE WINGWALL AT THE TOE SHOULD BE REDUCED TO "H" SO THAT THE SLOPE OF THE TOP OF THE WINGWALL EQUALS THE ADJACENT EMBANKMENT BATTER. REFER PROJECT DRAWINGS
5. SEE PROJECT DRAWINGS FOR THE FOLLOWING : NO. AND DIAMETER OF PIPES; SKEW ANGLES OF PIPES IF APPLICABLE; INVERT LEVELS OF PIPES; HEIGHT OF WINGWALL "H" AT TOE IF APPLICABLE
6. IF DIRECTED (BY THE SUPERINTENDENT), THE APRON SLAB TO A TYPE A OUTLET MAY BE LOWERED BY THE PIPE WALL THICKNESS TO ALLOW FOR FUTURE PIPE EXTENSION
7. AT INLETS OR OUTLETS, TRANSITION UNIFORMLY FROM CONCRETE TO OPEN CHANNEL OVER 5M TO 10M
8. REFER PROJECT DRAWINGS FOR PROTECTION PROPOSED BETWEEN END OF OUTLET STRUCTURE AND OPEN DRAIN / CREEK
9. REINFORCEMENT : BARS GRADE 400 TO AS 1302 FABRIC TO AS 1304
10. ALL DIMENSIONS IN MILLIMETRES, UNLESS SHOWN OTHERWISE

PIPE SKEW	5° - 15°	16° - 25°	26° - 35°	36° -45°
SKEW FACTOR	1.02	1.07	1.16	1.32

FOR MULTIPLE PIPES - INCREASE W1 AND W2 FOR EACH ADDITIONAL PIPE BY THE EXTERNAL DIAMETER + :

300 WHEN NOMINAL D < 600
600 WHEN NOMINAL D 600 - 1800
900 WHEN NOMINAL D > 1800

FOR SKEWED PIPES - MULTIPLY W1 AND W2 BY SKEW FACTOR

MULTIPLE / SKEW PIPES

DIMENSION	PIPE DIAMETER (D)															
	300	375	450	525	600	675	750	825	900	1050	1200	1350	1500	1650	1800	1950
A	150	150	150	200	200	200	250	250	250	250	250	300	300	300	300	300
B	225	225	225	300	300	300	300	300	300	300	300	300	300	300	300	300
C	450	450	450	450	450	450	600	600	600	600	600	600	600	600	600	600
H	580	670	750	830	900	980	1060	1140	1220	1370	1530	1690	1840	2000	2160	2340
T	150	150	150	200	200	200	200	200	200	200	200	200	200	200	200	200
W1	700	730	760	790	820	850	880	920	950	1010	1070	1140	1200	1260	1320	1380
W2	1860	2070	2260	2450	2620	2810	3000	3200	3390	3750	4130	4520	4880	5260	5640	6060

DIMENSIONS

TYPE A INLET DIA. = 300 TO 1200
TYPE A OUTLET DIA. = 300 TO 1950

C	03/18	MINOR MODIFICATIONS	
B	28/1/15	REVISED FORMAT AND TITLEBLOCK	
A		ORIGINAL ISSUE	
	DATE	DESCRIPTION	APPVD

AMENDMENTS AND REVISIONS
\STANDARD DRAWINGS\STORMWATER\A3-03892

SURVEY
SURVEY FILE No
LEVEL DATUM
MERIDIAN

DRAWN	SIGNED	DATE
DESIGNED	SIGNED	DATE
CHECKED	SIGNED	DATE 30/5/07

MANAGER TECHNICAL SERVICES
ORIGINAL SIGNED BY G. HAWES 26/7/07
G. HAWES RPEQ 5693 DATE

DIRECTOR
ENGINEERING AND
COMMERCIAL INFRASTRUCTURE
ORIGINAL SIGNED BY S. M. HOLLEY
JASON DEVITT
DATE 28/7/07

Mackay REGIONAL COUNCIL

STANDARD
INLETS & OUTLETS TO STORMWATER DRAINS

SHEET 1 OF 1
WORKS JOB No.
DRAWING No. A3-03892
AMEND. C