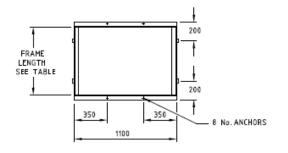


(SEE NOTE 9)

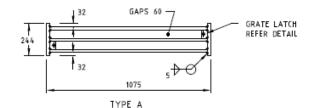
NOTES:

- 1. TYPE B GRATES SHALL BE USED IN AREAS SUBJECT TO PEDESTRIAN AND BICYCLE TRAFFIC.
- 2. IN AREAS SUBJECT TO BICYCLE TRAFFIC, BARS SHALL BE DRIENTED AT 90° TO THE DIRECTION OF TRAFFIC.
- 3. MAX.LOADING EACH GRATE UNIT WILL SUPPORT A 150 kN LOAD.
- 4. GRATE FRAME SHALL BE CONSTRUCTED FROM 75x50x5 MS ANGLE, CORNER JOINTS SHALL BE WELDED ON UNDERSIDE OF HORIZONTAL LEG AND ON THE INSIDE OF THE VERTICAL LEG WITH SIZE 5 FILLETS.
- 5. GRATE UNITS SHALL BE MADE FROM 75x20x1035 MS BARS. THE TOP AND BOTTOM EDGES OF THE BAR ENDS SHALL BE CHAMFERED 5mm x 5mm BEFORE CONTINUOUSLY WELDING ALL AROUND AND GROUND FLUSH BEFORE GALVANIZING.

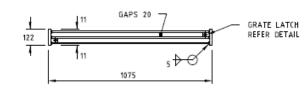
- 6, BOTH GRATE AND GRATE FRAME SHALL BE HOT DIP GALVANIZED TO AS/NZS 4680 UNLESS SPECIFIED OTHERWISE.
- 7. ANCHOR SPACING SHALL NOT EXCEED 400 mm.
- 8. EXPOSED CONCRETE EDGES SHALL HAVE 10x10 CHAMFERS.
- 9. THE LATCH SHALL BE INSTALLED SO THAT THE TONGUE ENGAGES THE SUPPORTING ANGLE WHEN THE SPRING IS COMPRESSED TO 50 % OF ITS LENGTH.
- 10. CONCRETE SHALL BE NORMAL-CLASS N32 STANDARD STRENGTH GRADE OR HIGHER COMPLYING WITH THE REQUIREMENTS OF AS 1379, EXPOSURE CLASSIFICATIONS UP TO AND INCLUDING B1.



GRATE FRAME



TOP TYPICAL SECTION



SD 1431

TYPE B GRATE UNITS

PIT, FRAME AND GRATE DETAILS

PIT	PIT TOP IN	TERNAL DIM	FRAME LENGTH	NUMBER OF GRATE UNITS				
TYPE	LENGTH	WIDTH	FRAME LENGIH	TYPE A	TYPE B			
1	750	1000	750	3	6			
2	1000	1000	1000	4	8			
3	1500	1000	1500	6	12			
4	2000	1000	2000	8	16			
5	2500	1000	2500	10	20			

DISCLAIMER (APRIL '23): THIS DRAWING IS IN THE PROCESS OF BEING UPDATED. FOR ALL STRUCTURAL REQUIREMENTS REFER BRIDGE TECHNICAL NOTE (BTN) 033: STRUCTURAL REQUIREMENTS FOR REINFORCED CONCRETE DRAINAGE PITS. GEOMETRIC DIMENSIONS SHOWN ON THIS DRAWING MAY BE USED AS A GUIDE AND MODIFIED WHERE NECESSARY TO ACHIEVE COMPIANCE.

ISS	E A	APP'D	DATE	AMENDMENT				PROJECT: sddgnnew	sd-1431e-dgn	OF METRES	VER				SD
Α	. 1	J.C.	1.9.94	GENERAL MOTE 5, NOTES 6, 9 & 10, GRATE LATCH & INVERT DEPTH.					COMPUTER FLE	SCALE		FILE NO.	CONTRACT NO.	SHEET NO.	DRAW
В		J.C.	1.7.95	STRENGTH & LENGTH OF ANCHOR BARS, MAX LOADING OF GRATE	GENERAL NOTES	2. UNHAUNCHED PITS 3. HAUNCHED PITS 4. STEP IRONS	CD 1001	Rom Fran 16,9,94	ENGINEERING & TECHNOLOGY CONSULTANTS				FLUSH STEEL GRAT		
C		J.C.	1.2.98	AMENDMENT TO NOTE 10, CONCRETE STRENGTH GRADES.				APPROVED	vic re	ads (design	1	GRATED F		
D		J.B.	OCT'98	GRATE LATCH DETAILS AMENDED		SETTING OUT DETAILS		DESIGN ENGINEER							
E		J.B.	1/8/02	AMENDEMNT TO NOTE 6 AS/NZS 4680		1. STANDARD PITS DIMENSIONING AND		PRINCIPAL ROAD		^			CTANDAD	D DRAWIN	r.