



- NOTES:**
- THIS PIT IS FOR USE IN MEDIANS AND TABLE DRAINS. IT IS NOT SUITABLE FOR USE IN ROADWAYS, FOOTPATHS, BICYCLE PATHS OR AREAS ACCESSIBLE BY PEDESTRIANS.
 - MAX. LOADING - EACH GRATE UNIT WILL SUPPORT A 150 kN LOAD.
 - 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.
 - ANCHOR SPACING SHALL NOT EXCEED 400 mm.
 - EXPOSED CONCRETE EDGES SHALL HAVE 10x10 CHAMFERS.
 - 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.
 - BOTH GRATE AND GRATE FRAME SHALL BE HOT DIP GALVANISED TO AS/NZS 4680 UNLESS SPECIFIED OTHERWISE
 - PIT REINFORCEMENT - F92. LAPS TO BE 300 MINIMUM. CLEAR COVER TO BE 50 MINIMUM. CORNER RETURN REINFORCEMENT MAY BE FABRIC OR EQUIVALENT BARS. BARS GRADE 400Y & FABRICS TO COMPLY WITH AS/NZS 4671 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.
 - PRECAST UNITS MAY BE CONSTRUCTED TO THE MANUFACTURER'S DETAILS. THE DESIGN SHALL COMPLY WITH THE AS 5100 BRIDGE DESIGN AND THE FOLLOWING ADDITIONAL REQUIREMENTS :
 - COMBINED FACTORED LATERAL PRESSURE AT ANY POINT AT THE ULTIMATE LIMIT STATE SHALL BE NOT LESS THAN 25 kPa.
 - ADEQUATE DRAINAGE SHALL BE PROVIDED TO PIT WALLS TO AVOID HYDROSTATIC PRESSURE.
 - VERTICAL LOAD 210 kN APPLIED ANYWHERE ON PIT.
 - MINIMUM REINFORCEMENT AREA SHALL BE 150 mm²/m.
 - 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.

PIT, FRAME AND GRATE DETAILS

PIT TYPE	PIT TOP INTERNAL DIM		FRAME LENGTH	NUMBER OF GRATE UNITS
	LENGTH	WIDTH		
1	750	1000	750	3
2	1000	1000	1000	4
3	1500	1000	1500	6
4	2000	1000	2000	8
5	2500	1000	2500	10

ISSUE	APP'D	DATE	AMENDMENT
F	J.K.	1/7/05	AS 1302 & 1304 SUPERSEDED BY AS/NZS 4671. AUSTRALIAN BRIDGE CODE 1996 SUPERSEDED BY AS 5100 BRIDGE CODE
E	J.C.	1/8/02	AMENDMENT TO NOTE 7 AS/NZS 4680
D	J.C.	OCT'98	GRATE LATCH NOTE ADDED
C	J.C.	1/2/98	AMENDMENT TO NOTES 8 & 9, CONCRETE STRENGTH GRADES.
B	J.C.	1/7/95	STRENGTH & LENGTH OF ANCHOR BARS
A	J.C.	1/9/94	GENERAL NOTE 5, NOTES 1, 2, 6, 7, 8 & 9.

GENERAL NOTES

- STANDARD PITS DIMENSIONING & SETTING OUT DETAILS
- UNHAUNCHED PITS
- HAUNCHED PITS
- STEP IRONS
- ALL DIMENSIONS ARE IN MILLIMETRES

DESIGNED PRINCIPAL ROAD DESIGN ENGINEER
 APPROVED 21.9.94
 CATALOG PROJECT FILENAME PRED sddgnnew sd-1411f.dgn

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FILE NO.	CONTRACT NO.	SHEET NO.	DRAWING NO.	ISSUE
			SD 1411	F

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