



NOTES:

- CAST IRON COVERS AND FRAMES ARE TO BE USED FOR PITS LOCATED IN OR WITHIN 300 mm OF TRAFFIC LANES. USE EITHER GATIC HEAVY DUTY B144 (750 x 750) OR GATIC HEAVY DUTY H212 CIRCULAR (600 DIA) COVER OR A COVER WITH EQUIVALENT STRENGTH.
- 2. EACH COVER SHALL HAVE WEIGHT AND CAPACITY CLEARLY IMPRINTED ON THE TOP.
- FRAMES MUST HAVE ADEQUATE ANCHORAGE TO ENSURE THAT THEY DO NOT COME LOOSE UNDER TRAFFIC.
- USE 750 x 750 SHAFT SIZE FOR JUNCTION PITS LOCATED IN TRAFFIC LANES.
- USE STANDARD SHAFT SIZE 1000 x 750 FOR PITS LOCATED OUTSIDE TRAFFIC LANES.
- 6. HAUNCHING MAY BE REQUIRED FOR PIPES OVER 450 DIAMETER. REFER TO PIT SCHEDULE FOR SIZES OF SPECIFIC PITS. PITS WITH HAUNCHING IN TWO DIRECTIONS REQUIRE SPECIAL STRUCTURAL DESIGN.
- 7. PIT REINFORCEMENT DETAILS ARE SHOWN IN TABLE. FABRIC IN SHAFT SHALL HAVE THE MAIN BARS POSITIONED HORIZONTALLY, LAPS TO BE 300 MIN. CLEAR COVER TO BE 50 MIN. 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.
- 8. PITS DEEPER THAN 1000 SHALL BE FITTED WITH STEP IRONS. REFER SD 1041.
- 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 kPg.
 - 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 mm 2/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.
- CONCRETE INFILL FOR COVER AND FRAME SHALL BE N32 AT 28 DAYS WITH 10 MAX SIZE AGGREGATE. TAMP AND PENCIL VIBRATE.
- 11. CAST IRON COVER AND FRAME TO BE INSTALLED AS ONE UNIT.

REINFORCEMENT DETAILS

PIT LENGTH "L"	REINFORCEMENT					
UP TO 1200	F92					
1201 TO 1800	F918					
1801 TO 2400	F1218					

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 COMPLIANCE.

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	E			GENERAL NOTES	DESIGNED	PRINCIPAL ROAD				STANDA	RD DRAWIN	NG
£	D			1. PIT DIMENSIONING & SETTING OUT DETAILS SD 1001 2. UNHAUNCHED PITS SD 1011		DESIGN ENGINEER		S PROSPECT HEL BOAD, CAMBERWELL, VICTORIA, 3124		HIMC	TION DI	т
525	С	J.K. 1/7	7/05 AS 1902 & 1904 SUPERSEDED BY AS/NZS 4671. AUSTRALIAN BRIDGE CODE 1996 SUPERSEDED BY AS 5100 BRIDGE CODE	3. HAUNCHED PITS SD 1021	APPROVED 16.9.94		WICHOUS COSIGN	PHONE NO. (23) SATT \$355	JUNCTION PIT			
52	В	-	2/98 AMENDMENT TO NOTES 7,9 & 10, CONCRETE STRENGTH GRADES.	4. STEP IRONS SD 1041 5. PIT COVERS SD 1051		J			1	CAST	RON COVE	R
Blc.	Α	J. C. 1/9	9/94 NOTES 7, 9 & 10, GENERAL NOTE 7, INVERT DEPTH	6. JUNCTION PIT – CONCRETE COVER SD 1121	PROJECT		SCALE	HOR NOT TO SCALE	FILE NO.	CONTRACT NO.	SHEET NO.	DRAWING NO.
물활	ISSUE /	PP'D DA	ATE AMENDMENT	7. ALL DIMENSIONS ARE IN MILLIMETRES		sd-1031c.dgn	METRES	VER				SD 1131