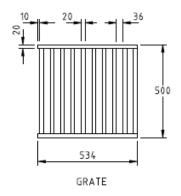
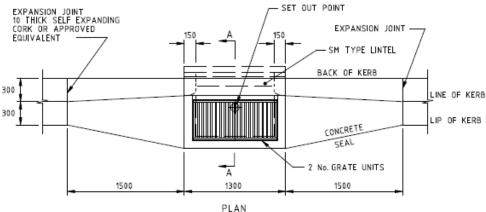


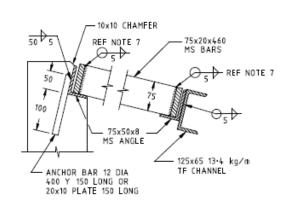
GRATE FRAME



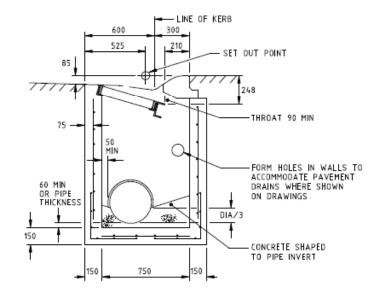


NOTES:

- HAUNCHING MAY BE REQUIRED FOR PIPES OVER 450 DIA, REFER TO PIT SCHEDULE FOR SIZES OF SPECIFIC PITS. PITS WITH HAUNCHING IN TWO DIRECTIONS REQUIRE SPECIAL STRUCTURAL DESIGN.
- 2. 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.
- 3. PITS DEEPER THAN 1000 SHALL BE FITTED WITH STEP IRONS, REF. SD 1041.
- CONCRETE LINTEL IS REQUIRED TO SUPPORT A TEST LOAD OF 100 km in ACCORDANCE WITH VICROADS' "INTERIM TEST METHOD FOR TEST LOADING PIT COVERS, LINTELS AND LIDS."
- 5. 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 kPα.
 - 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.
- 6. GRATE FRAME SHALL BE CONSTRUCTED FROM 75x50x8 MS ANGLE, EACH CORNER SHALL BE CHAMFERED ON UNDERSIDE OF HORIZONTAL LEG AND ON INSIDE OF VERTICAL LEG BEFORE WELDING WITH SINGLE V BUTT WELD, FRAME TO BE WELDED TO 125x65 13*4kg/m TF CHANNEL.
- GRATE UNITS SHALL BE MADE FROM 75x20x460 MS BARS. THE TOP AND BOTTOM EDGES OF THE BAR ENDS SHALL BE CHAMFERED 5mmx5mm BEFORE CONTINUOUSLY WELDING ALL AROUND AND GROUND FLUSH BEFORE GALVANIZING.
- BOTH GRATE AND GRATE FRAME SHALL BE HOT DIP GALVANIZED TO AS 1650 UNLESS SPECIFIED OTHERWISE.



SECTION THROUGH GRATE



SECTION A-A

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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ž.	U	-		CROWN LINES REMOVED		SD 1011	APPROVED 23.9.94		CARRENTEL		GRATED SIDE ENTRY PIT			
20	C	J. C.	1/2/98	AMENDMENT TO NOTES 2 & 5, CONCRETE STRENGTH GRADES.	3. HAUNCHED PITS	1021		vicroads design	PERIOR NO. DELI SELL BERN	011	(SM KERB)			
5.2	В	J. C.	1/7/95	STRENGTH OF ANCHOR BAR AMENDED.		1041		ENGINEERING & TECHNOLOGY CONSULTANTS			ONE METRE INLET			
35	Α	J.C.	1/9/94	SET OUT POINT, INVENT DEPTH, GENERAL NOTE 6, NOTES 2, 4, 5, 7, 8 & 9, SECTION A-A, CHANNEL DETALL	5. LINTELS SC 6. ALL DIMENSIONS ARE IN HILLIMETRES		ATALOG PRED	SCALE HOR	NOT TO SCALE FLE	FLE NO.				
50.00	ISSUE	APP'D	DATE	AMENDHENT			ROJECT sddgnnew ILENAME sd-1321e.dgn	METRES VER				SD 1321 E		