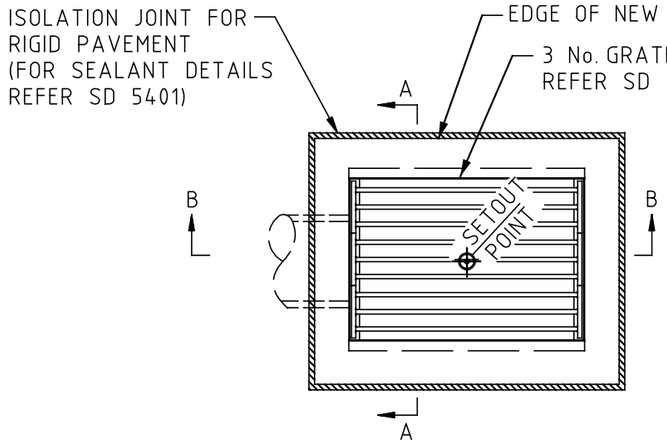
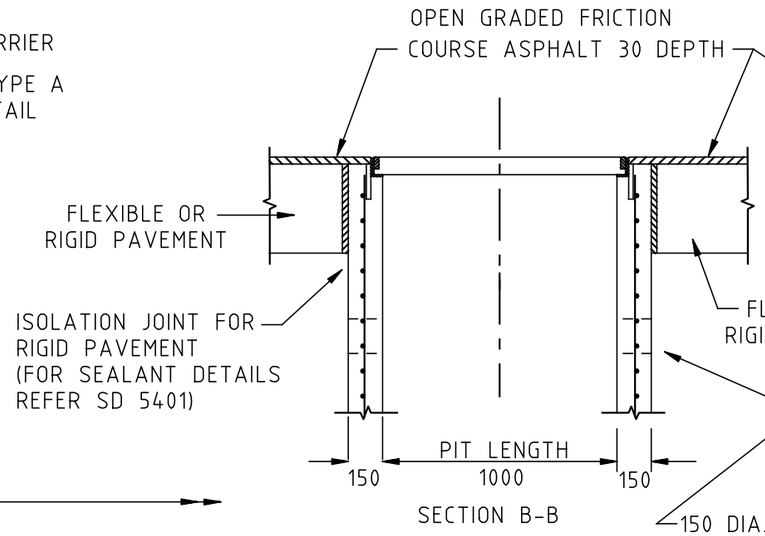
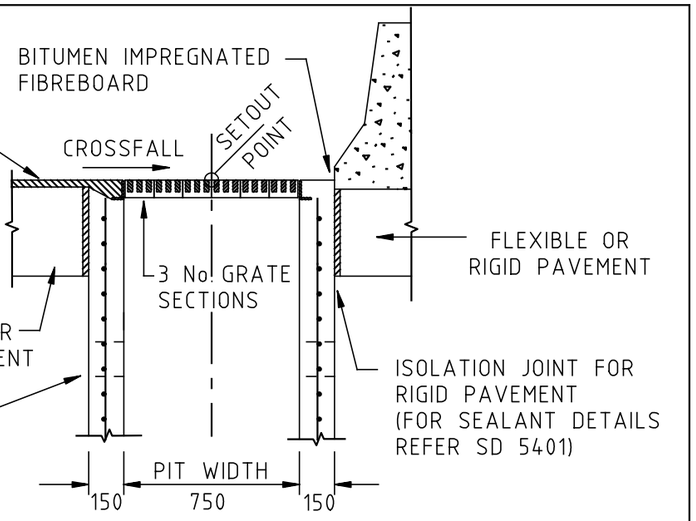
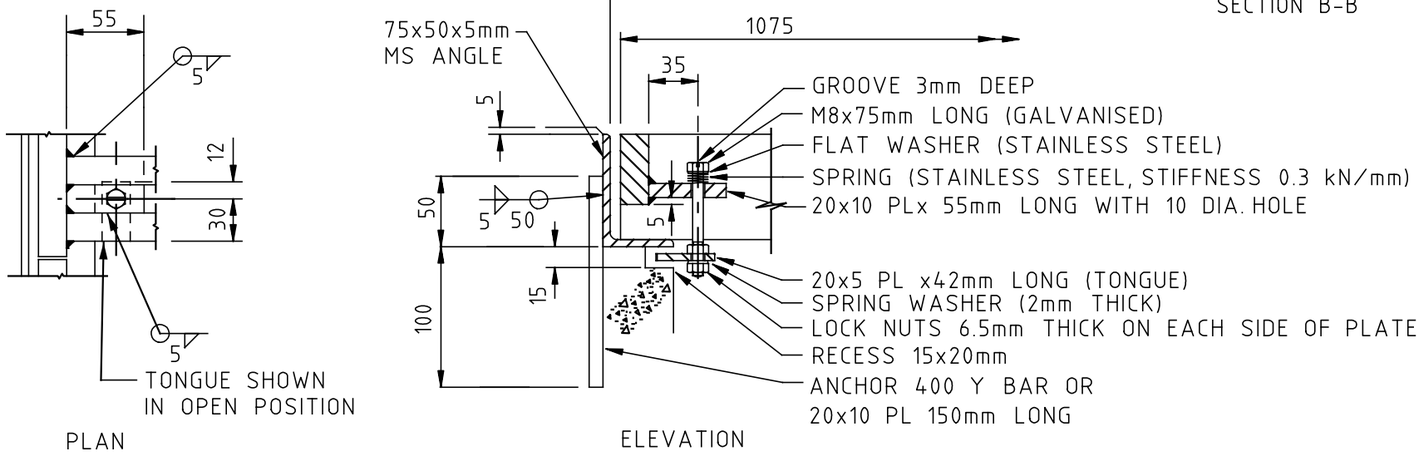


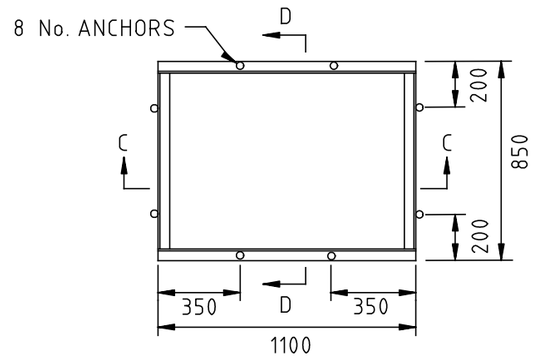


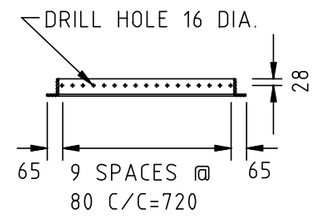


150 DIA. HOLE FORMED IN SIDES OF PITS FOR SUBSURFACE DRAIN CONNECTION AS SPECIFIED

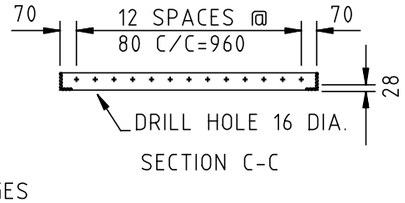


GRATE LATCH DETAIL - TYPICAL
(SEE NOTE 8)





SECTION D-D



SECTION C-C

GRATE FRAME

1. IN AREAS SUBJECT TO BICYCLE TRAFFIC, BARS SHALL BE ORIENTED AT 90° TO THE DIRECTION OF TRAFFIC.
2. MAX. LOADING - EACH GRATE UNIT WILL SUPPORT A 150 kN LOAD.
3. 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.
4. 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.
5. BOTH GRATE AND GRATE FRAME SHALL BE HOT DIP GALVANIZED TO AS/NZS 4680 UNLESS SPECIFIED OTHERWISE
6. ANCHOR SPACING SHALL NOT EXCEED 400 mm.
7. EXPOSED CONCRETE EDGES SHALL HAVE 10x10 CHAMFERS.
8. THE LATCH SHALL BE INSTALLED SO THAT THE TONGUE ENGAGES THE SUPPORTING ANGLE WHEN THE SPRING IS COMPRESSED TO 50 % OF ITS LENGTH.
9. 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.

ISSUE	APP'D	DATE	AMENDMENT
E			
D			
C	J.B.	1/8/02	AMENMENT TO NOTE 5 AS/NZS 4680
B	J.B.	OCT'99	GRATE LATCH DETAILS ALTERED
A	J.C.	1.2.98	AMENDMENT TO NOTE 9, CONCRETE STRENGTH GRADES.

GENERAL NOTES

1. STANDARD PITS DIMENSIONING AND SETTING OUT DETAILS — SD 1001
2. UNHAUNCHED PITS — SD 1011
3. HAUNCHED PITS — SD 1021
4. STEP IRONS — SD 1041
5. ALL DIMENSIONS ARE IN MILLIMETRES

DESIGNED PRINCIP ROAD DESIGN ENGINEER
APPROVED 13.4.95
CATALOG: PRED
PROJECT: sdddgnnew

vicroads design
ENGINEERING & TECHNOLOGY CONSULTANTS

COMPUTER FILE sd-1441c.dgn
SCALE OF METRES HOR NOT TO SCALE VER

STANDARD DRAWING
GRATED PIT
FOR OPEN GRADED ASPHALT SURFACE

FILE NO.	CONTRACT NO.	SHEET NO.	DRAWING NO.	ISSUE
			SD 1441	C