

ISOLATING VALVE IN CHAMBER (STANDARD)

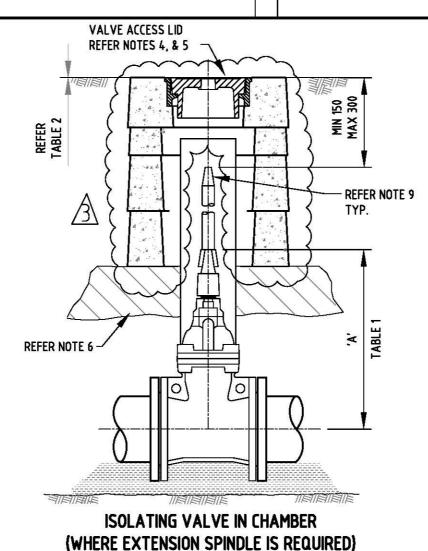
TABLE 1:

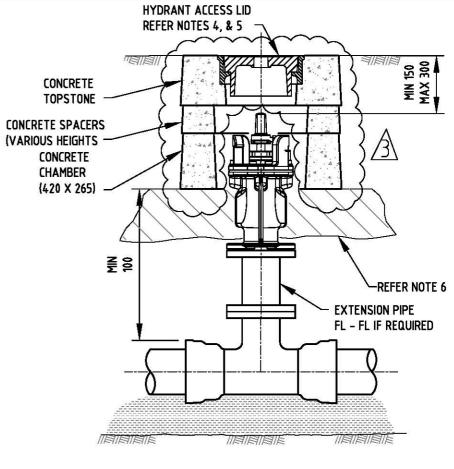
ISOL	ATIN	G VAI	LVES	DIME	NSION	IS	
VALVE DN	80	100	150	200	250	300	375
DIMENSION 'A'*	367	402	502	610	723	810	960

*DIMENSION 'A' IS MAX HEIGHT IN ACCORDANCE WITH AS 2638.2 NOTE: DIMENSIONS VARY BETWEEN MANUFACTURERS. REFER MANUFACTURER DATA SHEET.

TABLE 2:

CHAMBER FINISHED TOLERANCE					
LOCATION	TOLERANCE				
WITHIN ROAD RESERVE, SEALED PAVEMENT, VERGE AREAS, DRIVEWAYS, FOOTPATHS ETC.	+ 10 HIGH -5 LOW				
SEALED AND TRAFFICABLE AREAS WITHIN PRIVATE PROPERTY (PEDESTRIAN AND/OR VEHICULAR TRAFFIC)	+ 15 HIGH -5 LOW				
UNSEALED AREAS, WITHIN PRIVATE PROPERTY (E.G. GARDEN OR OCCASIONAL TRAFFIC	+ 20 HIGH -5 LOW				





BELOW GROUND FIRE HYDRANT (ALL DEPTHS) (ALL DEPTHS)

TOPSTONE AND CONCRETE SUPPORTS SHALL BE INSTALLED SUCH THAT NO LOADING IS TRANSMITTED TO THE VALVE, HYDRANT OR PIPE.

THE TOPSTONE SHALL BE SET TO THE FINISHED SURFACE LEVEL AND SLOPE OF ROAD OR FOOTPATH. THE FINISHED TOPSTONE SHOULD BE FLUSH WITH THE FINISHED ROAD OR SURFACE. A TOLERANCE IS PERMITTED IN ACCORDANCE WITH TABLE 2.

> THE PERMITTED TOLERANCE SHALL NOT BE EXCEEDED. (WATER SHALL NOT POOL OVER THE CASTING OR COVER).

THE TOPSTONE SHALL BE POSITIONED FOR THE VALVE KEY TO BE CONNECTED THROUGH THE OPENING TO THE VALVE OR HYDRANT WITHOUT FOULING. THE CONTRACTOR, SHALL REMOVE THE LID DURING INSTALLATION TO ENSURE FUTURE CLEAR ACCESS TO THE VALVE SPINDLE/ HYDRANT.

COMPACTED MATERIAL FOR SPACER /SLAB SUPPORT SHALL BE:

- >100 BELOW VALVE GLAND,
- >100 ABOVE FLANGE OR SOCKET.
- OR AS DIRECTED BY AUTHORITY
- GENERALLY COMPACTED QUARRY RUBBLE REQUIRED FOR LIGHT TRAFFIC AREAS, REFER 4005-30007-01 FOR HEAVY TRAFFIC ROADS.

(THE CAST IRON STREET BOX IS AN APPROVED ALTERNATIVE, FOR APPROVAL REFER TO THE SA WATER REPRESENTATIVE.)

WHERE CONCRETE SPACERS ARE REQUIRED TO ACHIEVE THE FINISHED LEVEL PLACE THICKEST SPACER IN BOTTOM POSITION PRIOR TO ADDING EXTRA SPACERS IN ORDER OF THICKNESS TO ACHIEVE THE FINISHED LEVEL

CONCRETE OR FIBREBOARD PACKING SEGMENTS SHALL NOT BE USED FOR THE ORIGINAL MAINS INSTALLATION. THEY MAY BE USED FOR MAINTENANCE PURPOSES ONLY.

VALVE EXTENSION SPINDLE IS AVAILABLE IN A RANGE OF LENGTHS (150 TO 950). REFER MANUFACTURER'S SPECIFICATIONS FOR AVAILABILITY.

REFER SECTION 3 FOR INSTALLATION OF WATER SUPPLY PIPES EMBEDMENT AND BACKFILL.

ALL DIMENSION IN MILLIMETRES.

REVISION PANEL					DESIGN PANEL				
ΕV	DATE	DRN	DETAILS	APR	CURRENT REV 08/08/18	DESIGNED:	28/09/15	AUTHORISED:	31/03/16
					AUTHORISED:	RJP		T.GALE	K
						DRAWN:	16/11/15	SIGNATURE:	
3	09/05/18	CD	TABLE 2 ADDED; NOTES AMENDED.		SIGNATURE:	MS		22323377	
2	26/10/16	RP	TWO PIECE LID FOR HYDRANT, NOTES CHANGED		T Cplele	REVIEWED:	21/03/16	ORIGINAL S	SIGNED
1	31/03/16	MS	2016 STANDARDS REVIEW	TG	1	TG			

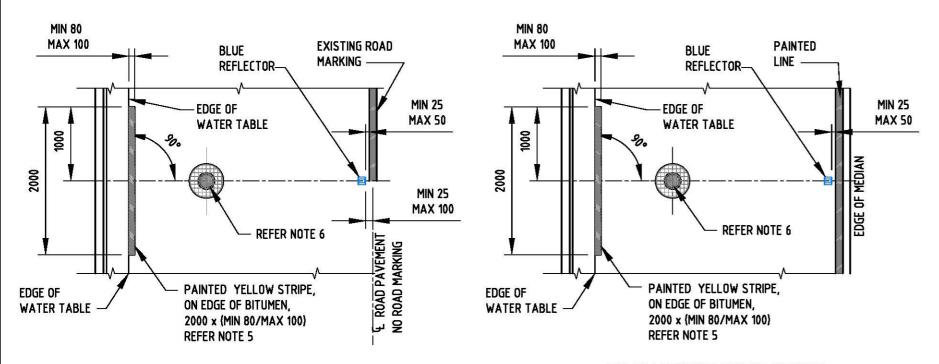


This drawing is the property of the SOUTH AUSTRALIAN WATER CORPORATION and shall not be copied or modified in part or in whole without authorization

SA WATER STANDARD DRAWINGS WATER SUPPLY CONSTRUCTION MANUAL CONCRETE TOPSTONE

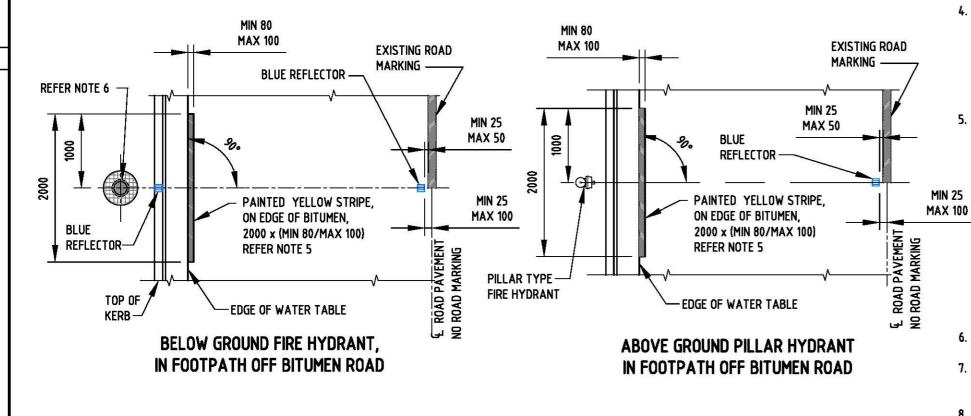
INSTALLATION IN UNMADE ROAD, EASEMENT OR TRACK

		ne.
	A3 sht size	3 REVISION
Ļ	TOTAL SHEETS:	
	SUPERSEDES: 91-0090-01 (C10)	
	DRAWING NUMBER	
	4005-30007	-02



BELOW GROUND FIRE HYDRANT BITUMEN ROAD WITHOUT MEDIAN STRIP

BELOW GROUND FIRE HYDRANT BITUMEN ROAD WITH MEDIAN STRIP



NOTES:

- ONE BLUE RETRO-REFLECTIVE PAVEMENT MARKER (RRPM) SHALL:
 - BE USED TO INDICATE THE LOCATION OF A FIRE HYDRANT.
 - NOT BE USED TO INDICATE A STOP VALVE.
 - BE POSITIONED IN ACCORDANCE WITH THIS DRAWING.

2. PLACEMENT OF THE RRPM:

- ONE RRPM SHALL BE PLACED ON THE FIRE HYDRANT SIDE OF THE MEDIAN OR CENTRELINE OF THE ROAD AS ILLUSTRATED ON THIS DRAWING AND IN ACCORDANCE WITH AS1742.2. "MANUAL OF UNIFORM TRAFFIC CONTROL DEVICES".
- RRPMS SHALL NOT BE INSTALLED:
 - WITHIN INTERSECTIONS,
 - WITHIN SLIP LANES OR BICYCLE LANES,
 - ON UNSEALED ROADS.
 - ON WINDING SECTIONS OF ROADS.
- FOR A RIGHT-HAND TURN LANE, THE RRPM SHALL BE PLACED:
 - FOR A CONTINUOUS LINE ON THE RIGHT HAND SIDE OF THE STRAIGHT AHEAD LANE, AND SHOULD BE CLEAR OF THE PAINT.
 - FOR A DISCONTINUOUS LINE THE RRPM SHALL BE PLACED EITHER IN A GAP OR BETWEEN 25 - 50 MM SPACING FROM THE LINE.
- THE RRPM SHALL FACE THE DIRECTION OF TRAVEL.

BLUE REFLECTORS (RRPM) USED SHALL:

- COMPLY WITH AS 1906.3 "RETROREFLECTIVE MATERIALS AND DEVICES FOR ROAD TRAFFIC **CONTROL PURPOSES - RAISED PAVEMENT MARKERS"**
- BE APPROVED BY DPTI OR SA WATER.

ADHESIVES:

- SHALL BE TWO PART EPOXY OR HOT MELT BITUMEN USED IN ACCORDANCE WITH THE MANUFACTURER'S INSTRUCTIONS.
- SHALL COMPLY WITH AS 3554 "EPOXY FOR RAISED PAVEMENT MARKER INSTALLATION".
- PRIOR TO APPLICATION ALL SURFACES SHALL BE CLEAN, DRY AND FREE FROM FOREIGN MATTER (E.G. OIL, LOOSE MATERIAL, SEALING, AGGREGATE ETC).

PAINT AND PAINTING:

- PAINT SHALL BE 'DPTI' APPROVED WATERBORNE LINE MARKING PAINT WITH QUARTZ NON-SLIP ADDITIVE.
- THE QUARTZ NON-SLIP ADDITIVE SHALL COMPLY WITH DPTI AND AUSTRALIAN STANDARDS.
- PAINT SHALL BE GOLDEN YELLOW COLOUR, NO. Y14 AS DEFINED IN AS2700 "COLOUR STANDARD FOR GENERAL PURPOSES".
- ALL SURFACES SHALL BE DRY AND FREE FROM FOREIGN MATTER (E.G. OIL, LOOSE MATERIAL SEALING AGGREGATE ETC).
- APPLICATION SHALL BE WHEN AIR TEMPERATURE IS >10°C. APPLY WHEN RELATIVE HUMIDITY IS <85%.
- PAINTED "NO PARKING" LINES SHALL NOT PLACED IN ANY AREA WHERE IT IS ILLEGAL TO PARK EG ON ROAD CORNERS OR IN FRONT OF DRIVEWAYS.
- 6. STREET BOX LIDS: ONLY THE INNER LID (OF THE 2 PIECE LID) SHALL BE PAINTED.
- FOR EXISTING INSTALLATIONS THE CONTRACTOR SHALL LIFT THE CASTING LID FOR CONFIRMATION OF THE PRESENCE OF A FIRE HYDRANT.
- 8. ALL DIMENSIONS IN MILLIMETRES.

SA WATER STANDARD DRAWINGS

	REVISION PANEL					DESIGN PANEL			
REV	DATE	DRN	DETAILS	APR	CURRENT REV 16/12/16	DESIGNED:	03/08/15	AUTHORISED: 31/03/10	5
	·				AUTHORISED:	RJP		T.GALEK	ŀ
					T. GALEK	DRAWN:	16/11/15	SIGNATURE:	ı
Н					SIGNATURE:	MS			ı
2	28/11/16	RP	NOTES CHANGED, INNER LID TO BE PAINTED		T. Cplele	REVIEWED:	21/03/16	ORIGINAL SIGNED	I
1	31/03/16	MS	2016 STANDARDS REVIEW	TG	1 Galer	TG			



WATER SUPPLY CONSTRUCTION MANUAL FIRE HYDRANT LOCATING BY MEANS OF BLUE REFLECTOR and shall not be copied or modified TOGETHER WITH BITUMEN MARKINGS in part or in whole without authorization

	250
A3 sht size	2 REVISION
TOTAL SHEETS:	REFISION
SUPERSEDES: 2006-00467 (F6)	
DRAWING NUMBER	9-0 s-20
4005-30007	-03
PREFIX NUMBER	SHEET

