
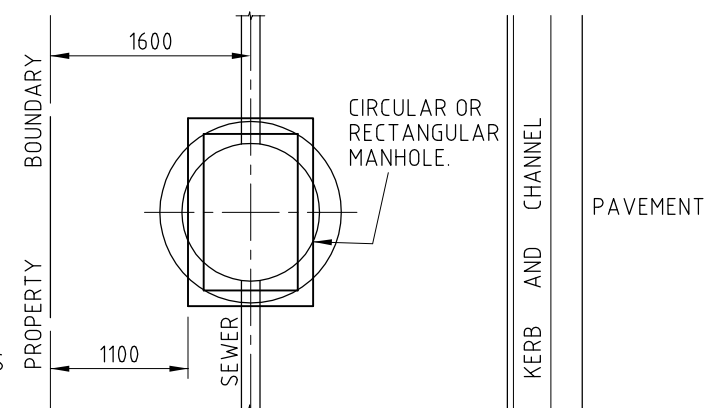
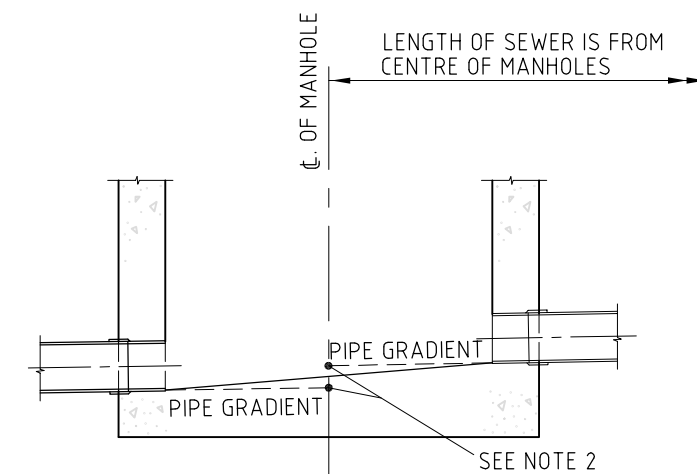
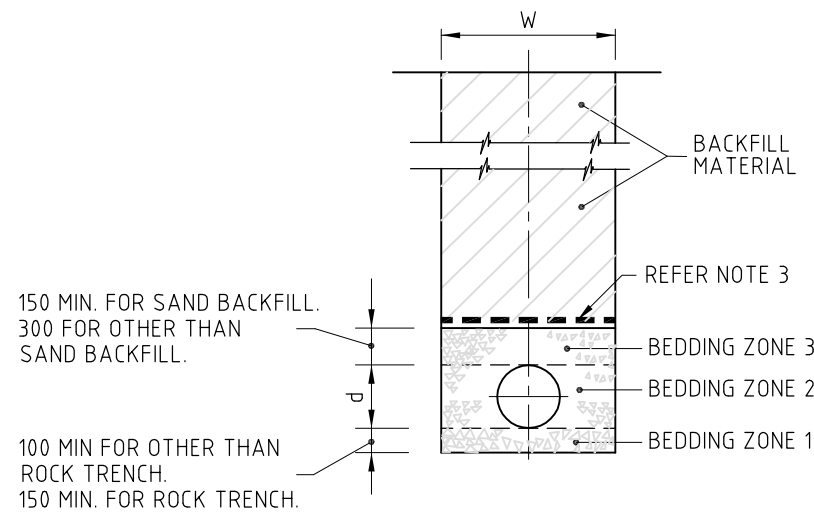


DATE PLOTTED: 28 July, 2006 - 2:16pm

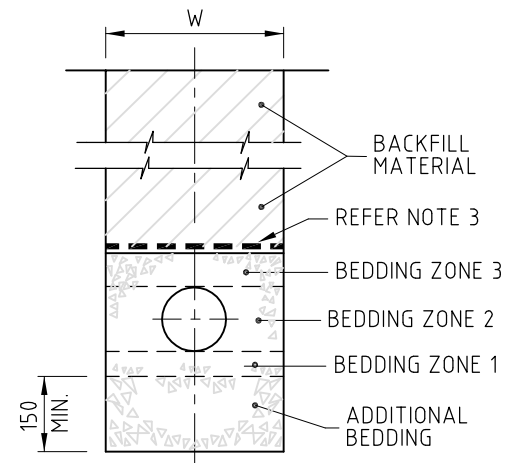
DWG NO.	DESCRIPTION
RCC W_00	Index of Standard Drawings – Sewerage
RCC W_0001	Sewerage Reticulation Typical Arrangement Details
RCC W_0002	Sewer and House Connection Trench and Bedding Details
RCC W_0003	Sewer and House Connection Trench and Bedding Details within Existing Roads
RCC W_0004	Standard for Drainage of sewer and Trenches and Diversion Drains
RCC W_0005	Sewerage Pressure Main Thrust Block Details
RCC W_0006	Sewerage House Connections Construction Details
RCC W_0007	Circular Sewerage Manholes ( Sheet 1 of 2)
RCC W_0008	Circular Sewerage Manholes ( Sheet 2 of 2 )
RCC W_0009	Sewerage Manholes Using Precuts Components
RCC W_0010	Regular Sewerage Manhole Type "F"
RCC W_0011	Sewerage Manhole Covers and Frames
RCC W_0012	Iron Inspection bends for Type "X" internal Drop pipes in sewerage Manholes
RCC W_0013	Detail of Sewerage Pressure main Scour Valve Arrangement
RCC W_0014	Standard Pressure Main scour Valve Arrangement
RCC W_0015	Typical Gas Release Valve Arraignment for Sewerage Pressure Mains
RCC W_0016	Pumping and Lifting Stations Typical Layout
RCC W_0017	Typical Sewerage Pump Station 2100dia & 2400dia ( Plan 1 of 3 – Pipework)
RCC W_0018	Typical Sewerage Pump Station 2100dia & 2400 dia – Well Construction
RCC W_0019	Typical Sewerage Pump Station 2100dia & 2400 dia – Miscellaneous Details
RCC W_0020	Dividing Wall and Inlet Structure for Standard sewerage Pump Wells 2100dia & 2400 dia
RCC W_0021	Sewerage Pump Station Diagrammatic Layout
RCC W_0022	Light Duty Access Cover for Sewerage Lift Stations and Pump Stations
RCC W_0023	Standard Overflow Manholes from Pump Well or Manhole
RCC W_0024	Standard Overflow Screen
RCC W_0025	Standard Sewerage Lift Station 1800 dia (General Layout)
RCC W_0026	Standard Sewerage Lift Station 1800 dia ( Miscellaneous Details)
RCC W_0027	Sewerage Lift Station – Diagrammatic Layout
RCC W_0028	Pavement Markers & Delineators Rising Main Valves and Other Fittings

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						DESIGNED:		CHECKED:			INDEX OF STANDARD DRAWINGS - SEWERAGE			DATE: 26.07.06		Rv.
						RECOMMENDED:		APPROVED:						DRAWING No:		
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DATE QUOTED: 28 July, 2006				ORIGINAL ISSUE		REVISIONS		REC. APPR.								

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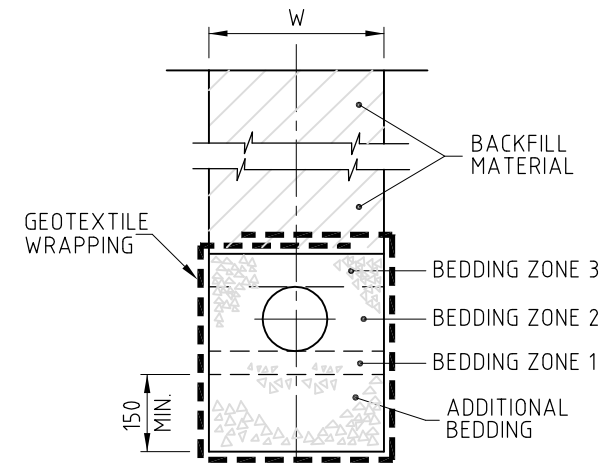


**TYPE 1 CONSTRUCTION**



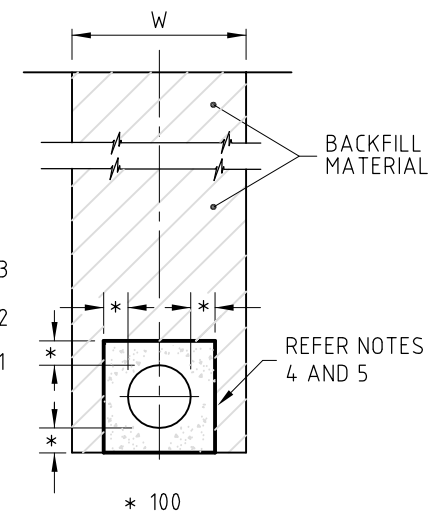
**TYPE 2 CONSTRUCTION**

FOR DETAILS OF BEDDING ZONES 1, 2 AND 3  
REFER TO TYPE 1 CONSTRUCTION.

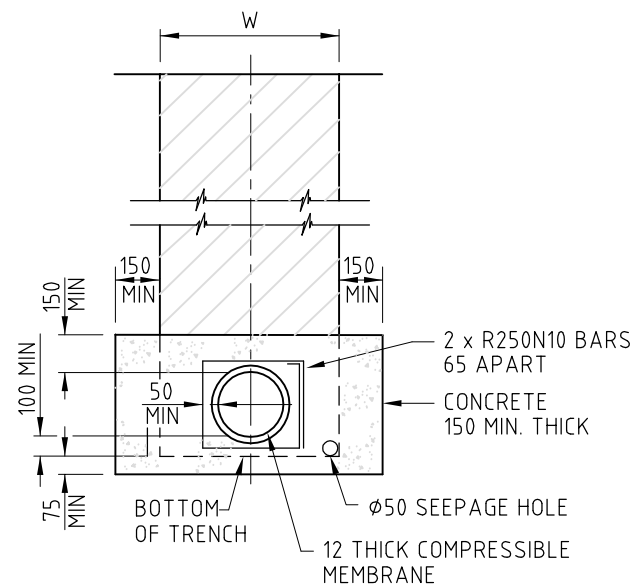


**TYPE 3 CONSTRUCTION**

FOR DETAILS OF BEDDING ZONES 1, 2 AND 3  
REFER TO TYPE 1 CONSTRUCTION.



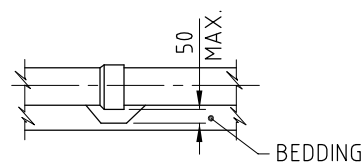
**TYPE 4 CONSTRUCTION**



**CONCRETE BULKHEADS**

REFER NOTE 2

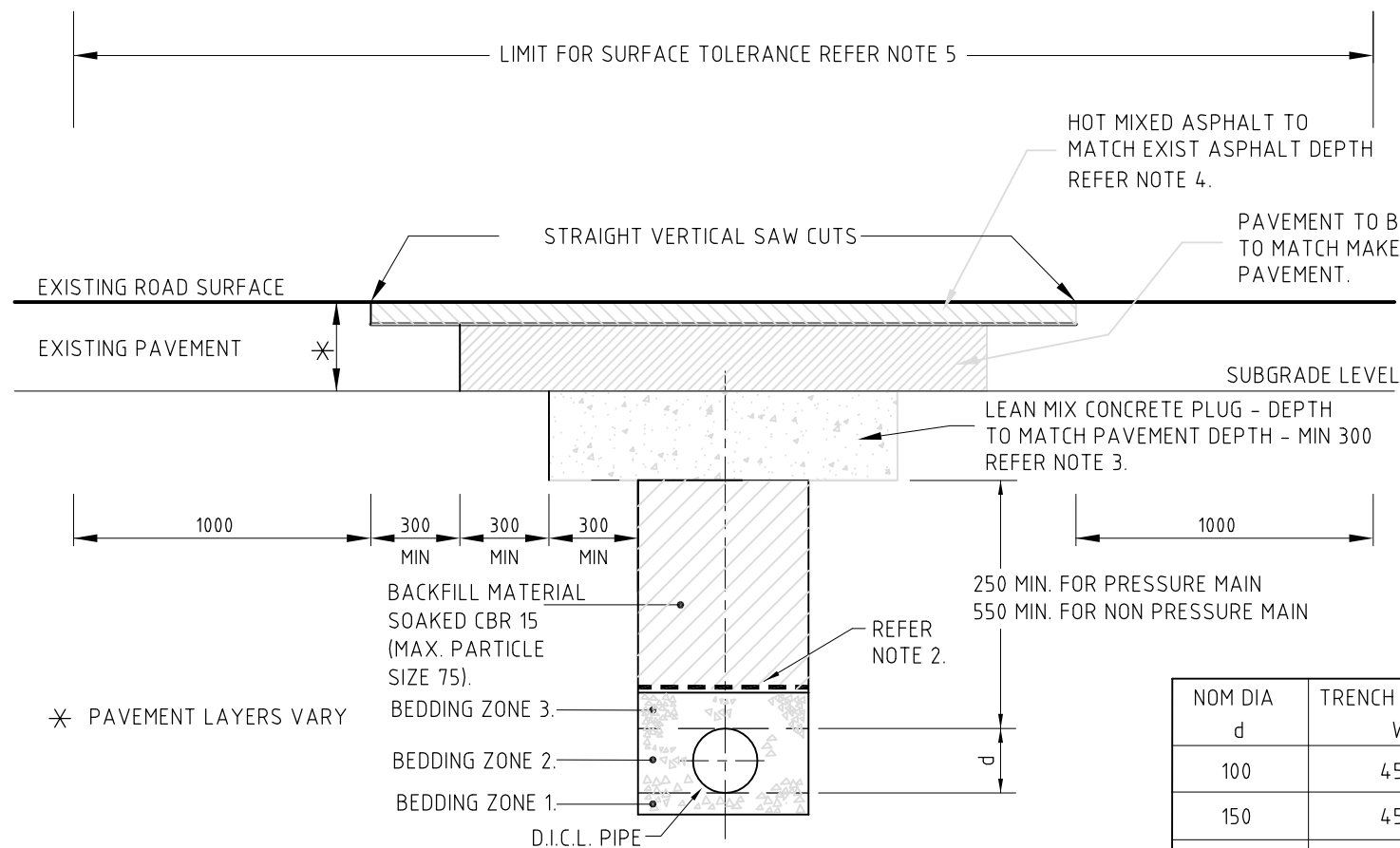
PIPE	GRAVITY & PRESSURE
NOM. DIA. d	TRENCH WIDTH W
100	450
150	450
225	600
300	750



**HANDHOLES**

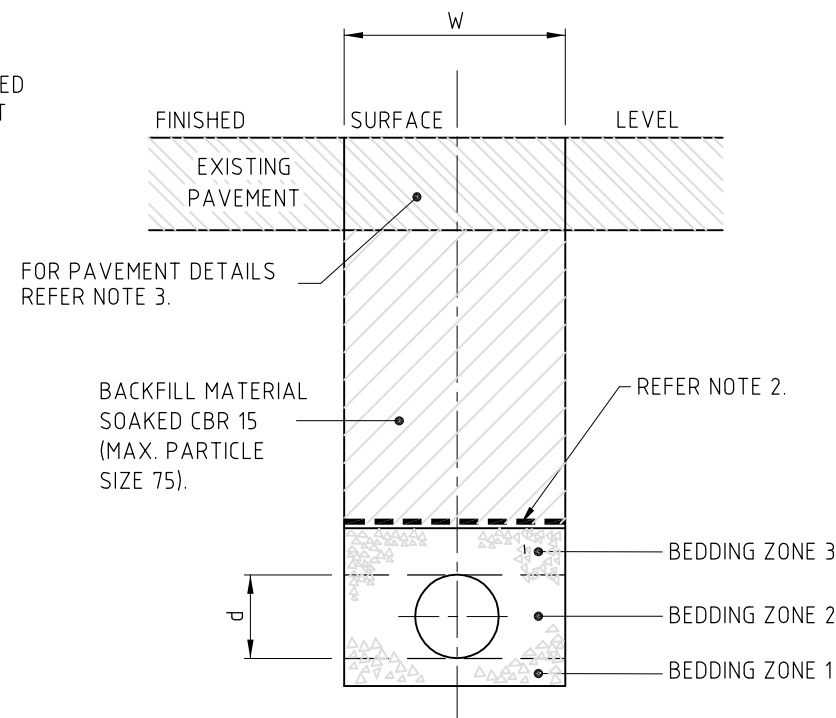
### NOTES:

- FOR EXCAVATION, BEDDING AND BACKFILL REQUIREMENTS REFER COUNCIL'S STANDARD SPECIFICATION SS 1.
- CONCRETE BULKHEADS SHALL BE SPACED AT:-  
(A) 6m INTERVALS FOR Ø100 TO Ø300 PIPES WITH GRADES BETWEEN 15% AND 29%.  
(B) WHERE GRADES EXCEED 29%, THE SPACING IN METRES, SHALL BE CALCULATED BY DIVIDING 100 BY THE GRADE (%).
- CONCRETE IN BULKHEADS IS TO BE GRADE N20.
- WHERE BACKFILL IS CLASSIFIED AS SAND (BY THE SUPERINTENDENT) A GEOTEXTILE BARRIER SHALL BE PROVIDED AT THE INTERFACE OF BEDDING ZONE 3 AND BACKFILL.
- THE PIPE SHALL BE WRAPPED WITH DENSO TAPE OR SIMILAR OR uPVC SLEEVED AND TAPED FOR THE EXTENT OF CONCRETE SURROUND.
- A SHORT PIPE 500 LONG SHALL BE INSTALLED IMMEDIATELY UPSTREAM AND DOWNSTREAM OF THE ENCASED SECTION OF PIPELINE.
- DIMENSIONS ARE IN MILLIMETRES UNLESS SHOWN OTHERWISE.



### TYPE 5 CONSTRUCTION PAVEMENT CROSSING

FOR DETAILS OF BEDDING ZONES 1, 2 AND 3  
REFER TO TYPE 1 CONSTRUCTION.




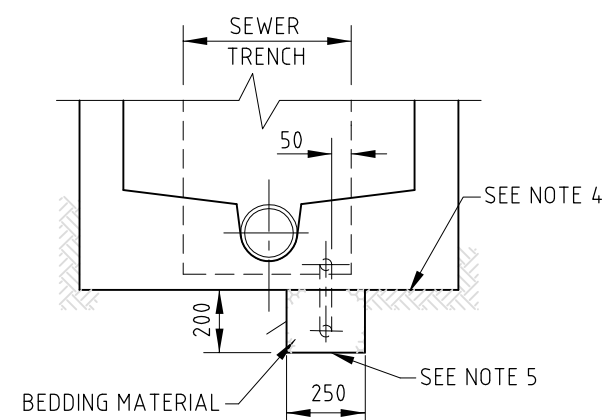
### TYPE 6 CONSTRUCTION ALONG UNSEALED ROAD SHOULDERS

FOR DETAILS OF BEDDING ZONES 1, 2 AND 3  
REFER TO TYPE 1 CONSTRUCTION.

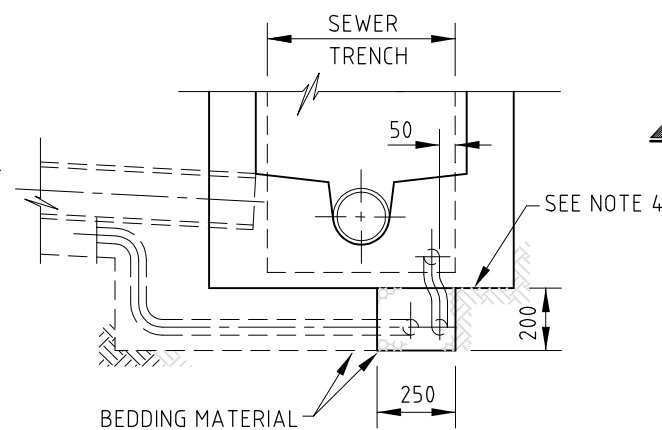
#### NOTES:

- FOR EXCAVATION, BEDDING AND BACKFILL REQUIREMENTS REFER COUNCILS STANDARD SPECIFICATION SS 1.
- WHERE BACKFILL MATERIAL IS CLASSIFIED AS SAND (BY THE SUPERINTENDENT) A GEOTEXTILE BARRIER SHALL BE PROVIDED AT THE INTERFACE OF BEDDING ZONE 3 AND BACKFILL.
- FOR PAVEMENT DETAILS REFER COUNCIL STANDARD SPECIFICATION SS7.
- THE ASPHALT SURFACING SHALL COMPLY WITH COUNCILS STANDARD SPECIFICATION SS8.
- THE DEVIATION FROM A STRAIGHT EDGE PARALLEL TO THE CENTRE LINE OF THE EXISTING ROAD SHALL NOT EXCEED 5 MILLIMETRES.
- FOR STATE CONTROLLED ROADS THE BEDDING ZONES 1, 2 AND 3 SHALL COMPLY WITH THE DETAILS ON THIS DRAWING. BACKFILL, PAVEMENT AND ASPHALT SURFACING SHALL COMPLY WITH REQUIREMENTS OF MAIN ROADS.
- DIMENSIONS ARE IN MILLIMETRES UNLESS SHOWN OTHERWISE.

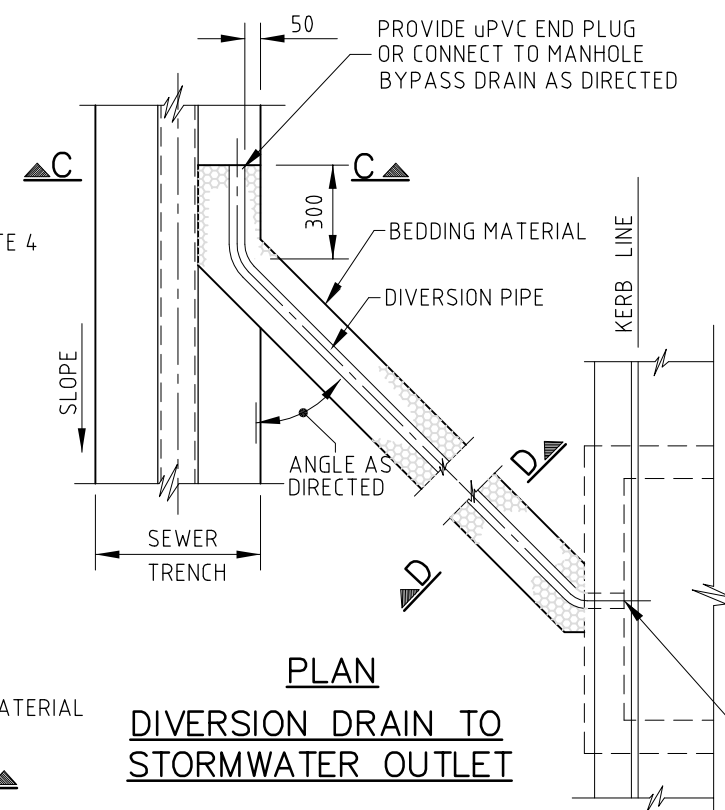
				REDCLIFFE CITY COUNCIL		SURVEY:		A3		DATUM: A.H.D.						RCC STANDARD DRAWINGS - SEWERAGE					
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A				ORIGINAL ISSUE																	
Rv.				DATE		REVISIONS		REC.		APPR.											



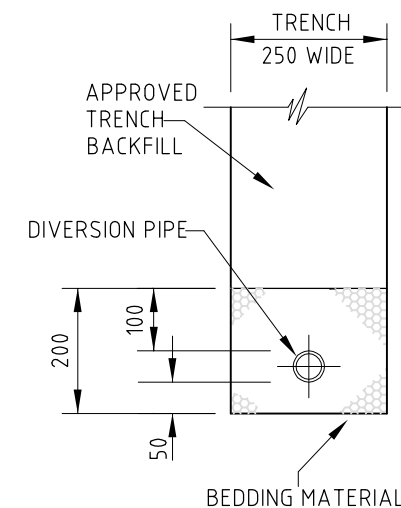
SECTION A-A



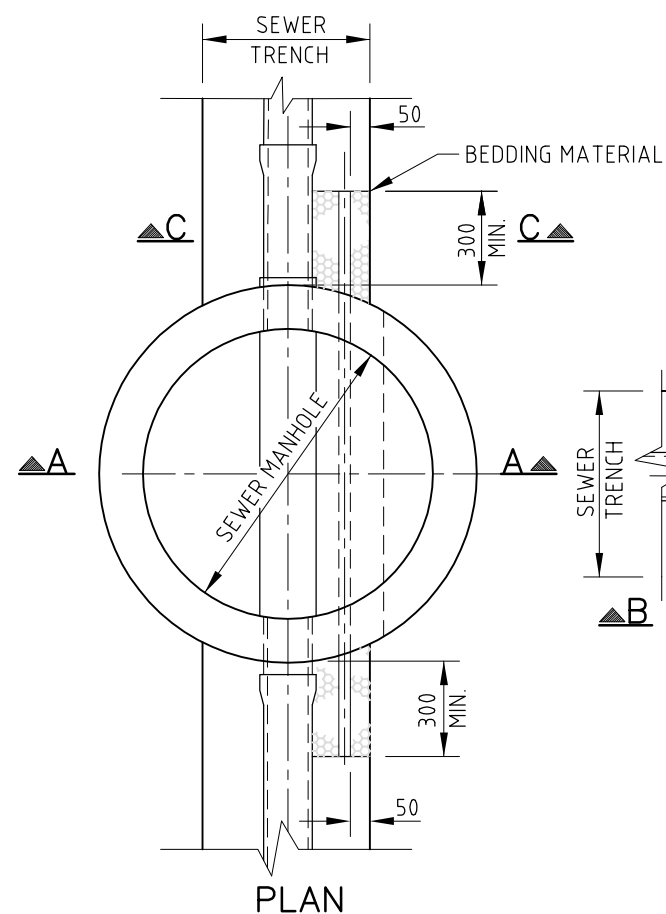
SECTION B-B



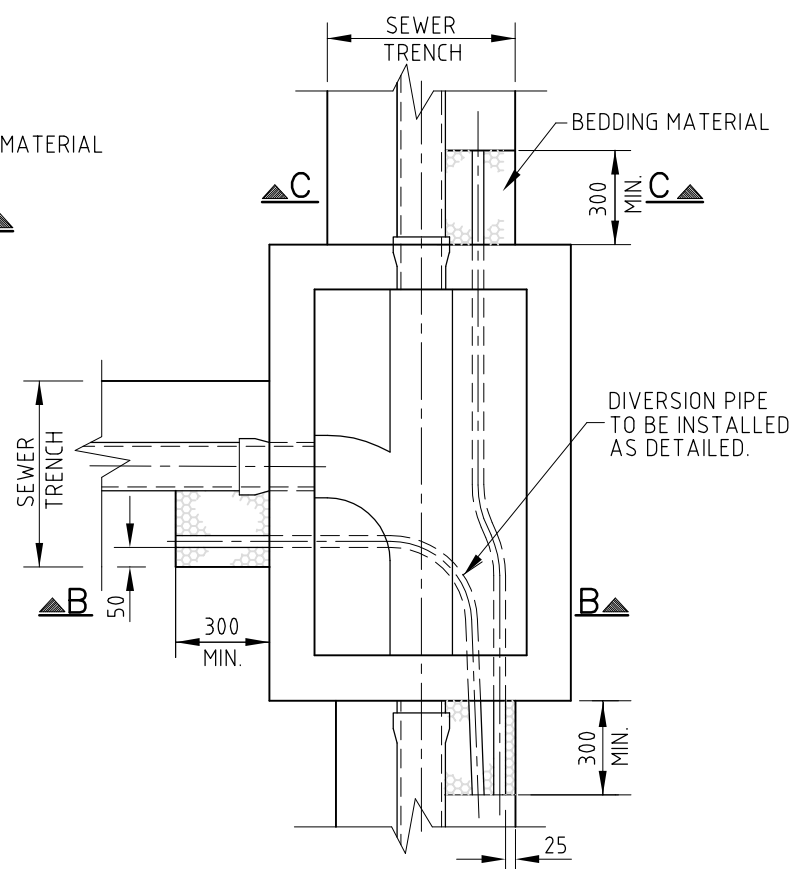
PLAN  
DIVERSION DRAIN TO  
STORMWATER OUTLET



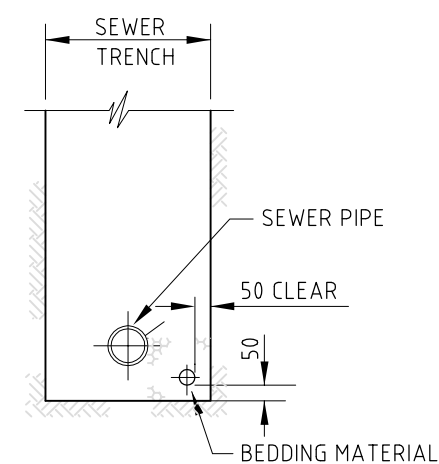
SECTION D-D  
DIVERSION DRAIN  
TRENCH



PLAN



SECTION C-C



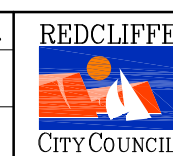
## NOTES

1. DIVERSION PIPES AND FITTINGS TO BE  $\phi 50$  SLOTTED POLYETHYLENE CLASS 400 TO A.S.2439.
2. FOR BEDDING MATERIAL REQUIREMENTS (GRADE 5/7) REFER COUNCIL'S STANDARD SPECIFICATION SS 1.
3. DIVERSION DRAINS ARE TO BE FITTED WITH A FILTER SLEEVE/SOCK AS DIRECTED BY THE SUPERINTENDENT.
4. VISQUEEN OR SIMILAR TO BE LAID UNDER THE LIMITS OF THE MANHOLE.
5. LOCATE THE DIVERSION PIPE CENTRALLY IN TRENCH 50 ABOVE TRENCH FLOOR. PROVIDE END CAPS AT ALL PIPE ENDS.
6. DIMENSIONS ARE IN MILLIMETRES UNLESS SHOWN OTHERWISE.

A	DATE	ORIGINAL ISSUE	REVISIONS	REC.	APPR.

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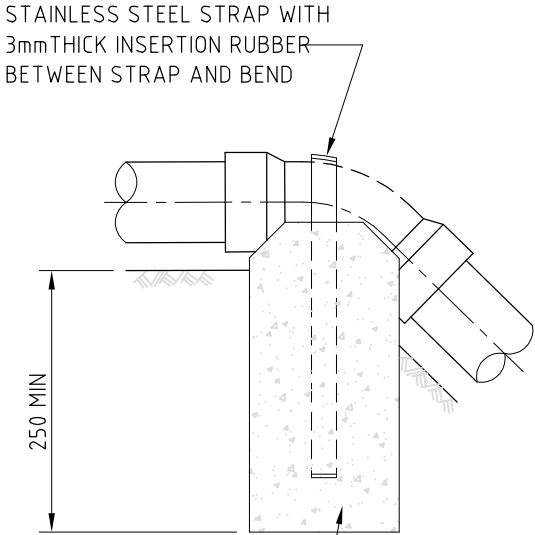
IRENE STREET REDCLIFFE  
PO BOX 66, REDCLIFFE QLD 4020  
PHONE: (07) 3283 0233 FAX: (07) 3883 1723  
WEB SITE: [www.redcliffe.qld.gov.au](http://www.redcliffe.qld.gov.au)

RCC STANDARD DRAWINGS - SEWERAGE		
STANDARD FOR DRAINAGE OF SEWER AND TRENCHES AND DIVERSION DRAINS	DATE: 26.07.06 DRAWING No:	Rv.
	S-0004	A

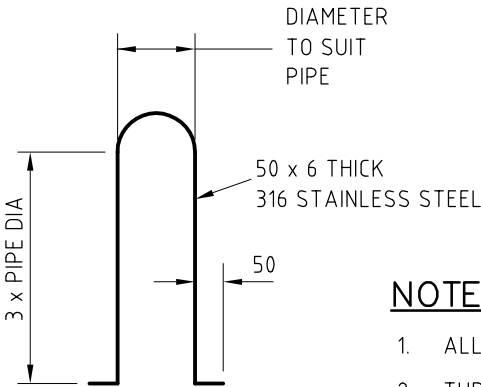
PIPE DIA	FITTING	MAX THRUST IN kN	THRUST BLOCK HEIGHT	SOFT CLAY 50 kPa	MEDIUM CLAY SANDY LOAM 100 kPa	SAND & GRAVEL HARD CLAY 150 kPa	SAND & GRAVEL CEMENTED WITH CLAY 200 kPa	ROCK 240 kPa
100	90° BEND	14.9	400	750	●	●	●	●
	60° BEND	10.5		●	●	●	●	●
	45° BEND	8.04		●	●	●	●	●
	22.5° BEND	4.10		●	●	●	●	●
	11.25° BEND	2.06		●	●	●	●	●
	TEE OR CLOSED END	10.5		●	●	●	●	●
150	90° BEND	31.4	450	1400	700	●	●	●
	60° BEND	22.2		1000	●	●	●	●
	45° BEND	17.0		800	●	●	●	●
	22.5° BEND	8.67		●	●	●	●	●
	11.25° BEND	4.36		●	●	●	●	●
	TEE OR CLOSED END	22.2		1000	●	●	●	●
225	90° BEND	67.1	600	SPECIAL DESIGN	1150	750	●	●
	60° BEND	47.5		1600	800	●	●	●
	45° BEND	36.3		1250	650	●	●	●
	22.5° BEND	18.5		650	●	●	●	●
	11.25° BEND	9.30		●	●	●	●	●
	TEE OR CLOSED END	47.5		1600	800	●	●	●
300	90° BEND	119.2	700	SPECIAL DESIGN	1700	1150	850	700
	60° BEND	84.0		SPECIAL DESIGN	1200	900	●	●
	45° BEND	64.3		SPECIAL DESIGN	950	●	●	●
	22.5° BEND	32.8		950	●	●	●	●
	11.25° BEND	16.5		●	●	●	●	●
	TEE OR CLOSED END	84.0		SPECIAL DESIGN	1200	900	●	●
● INDICATES BLOCK LENGTH OF 600				THRUST BLOCK LENGTHS				

● INDICATES BLOCK LENGTH OF 600

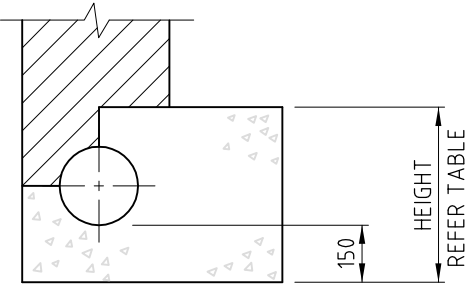
THRUST BLOCK DIMENSIONS



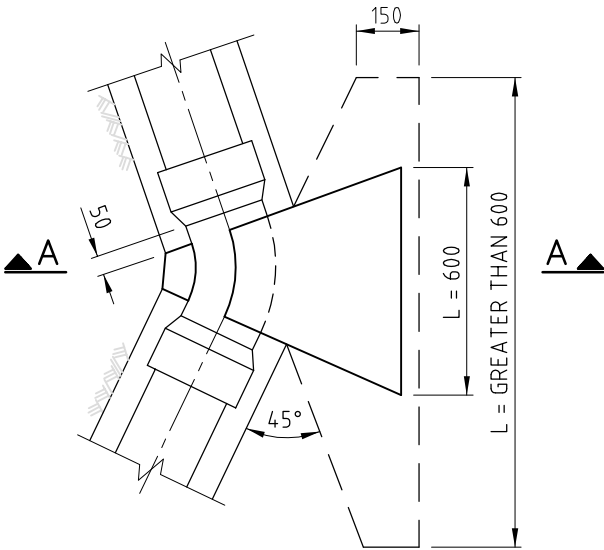
VERTICAL BENDS



SS STRAP



SECTION A-A



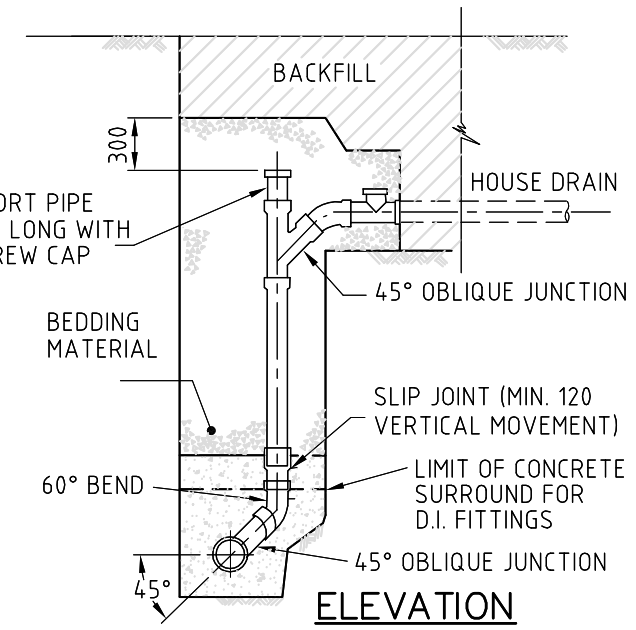
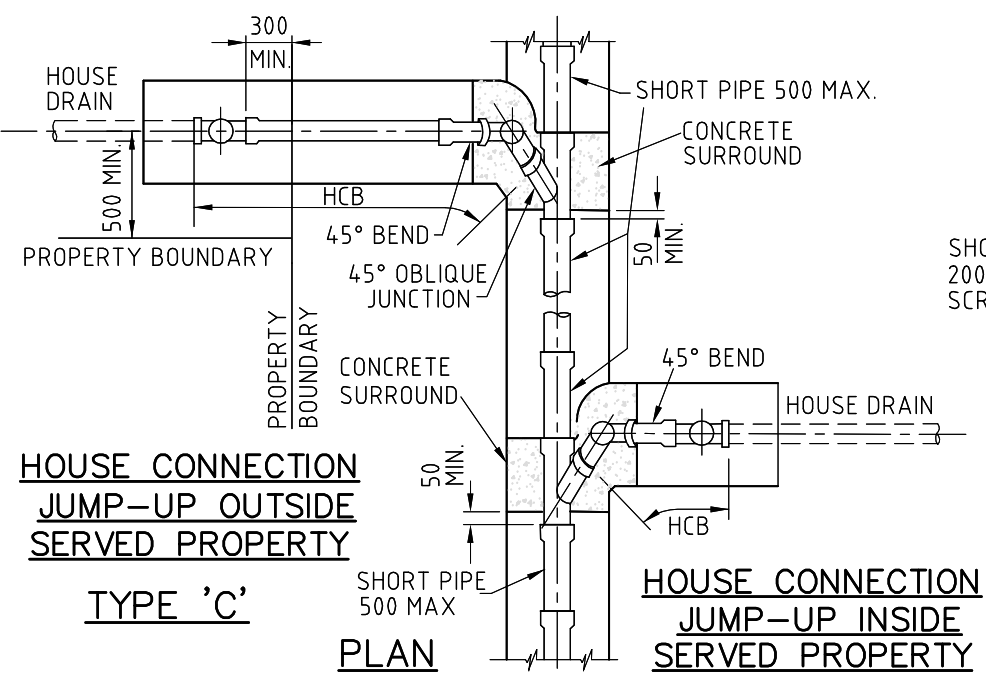
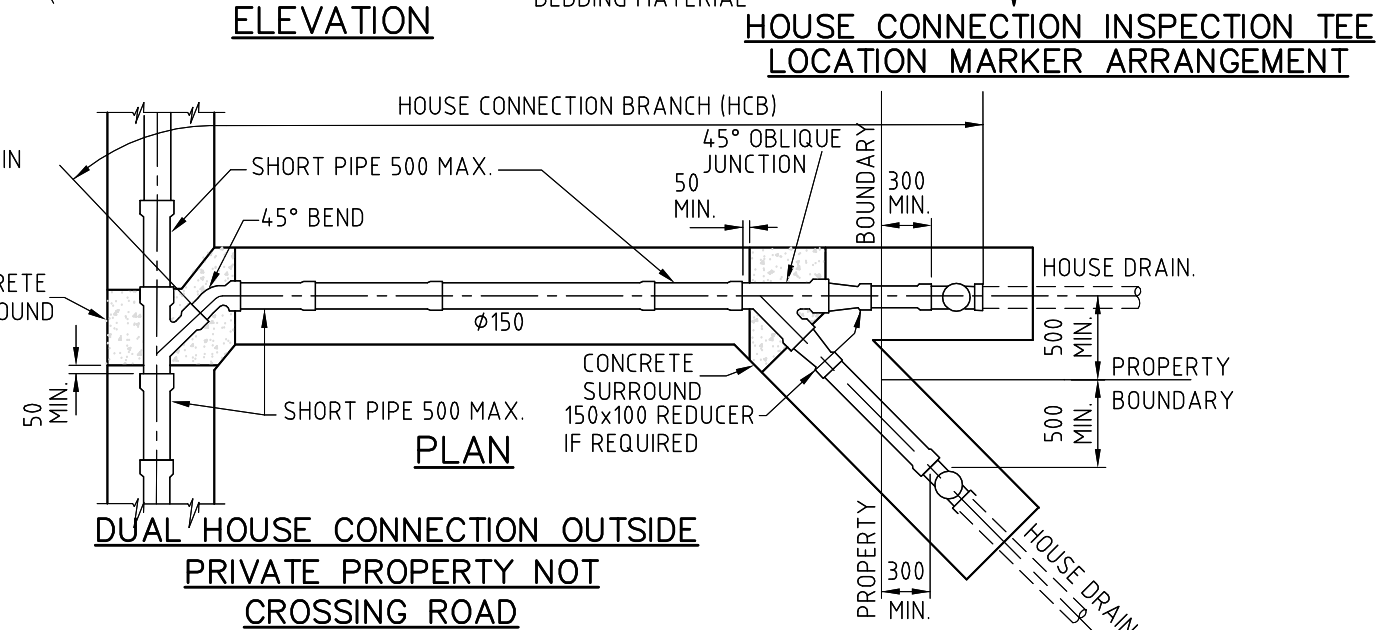
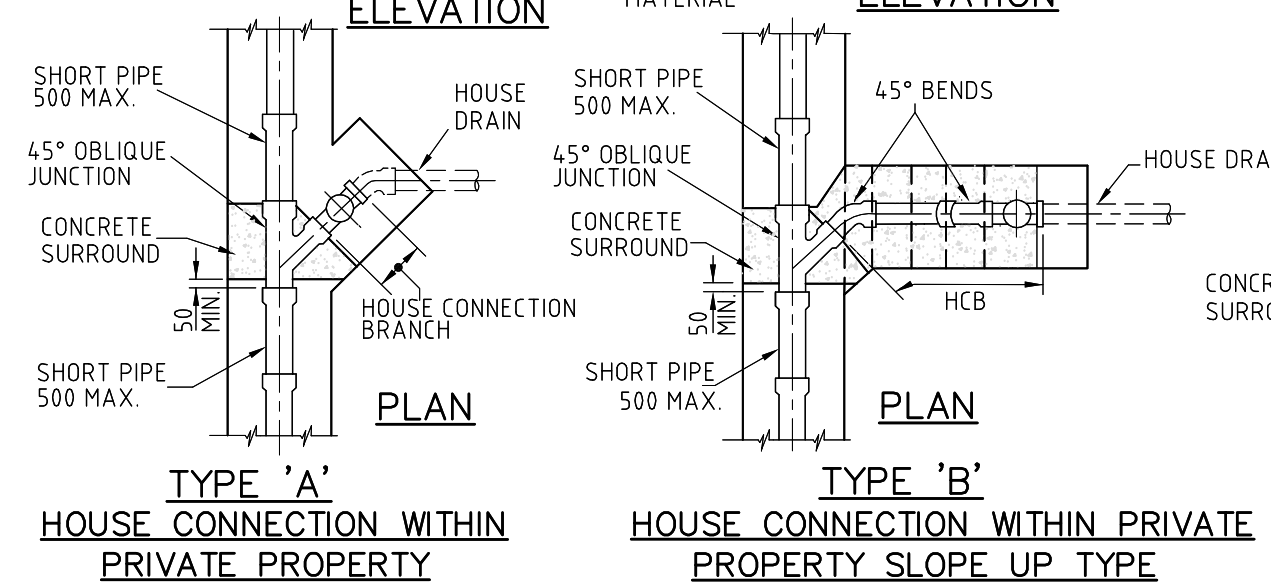
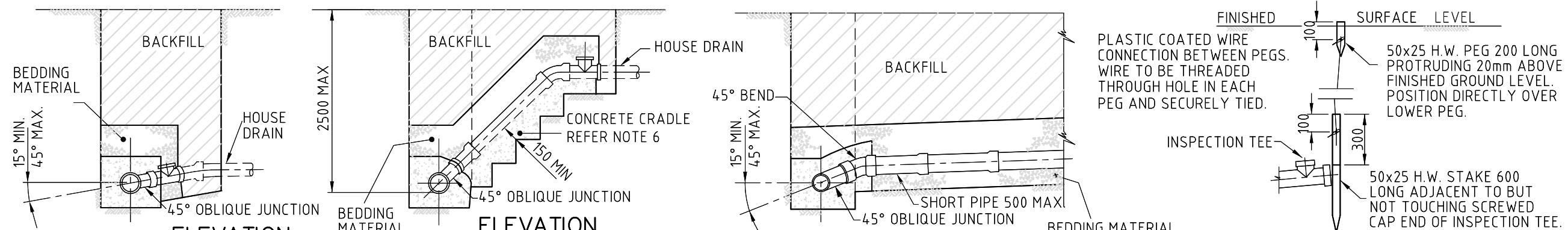
PLAN

NOTES:

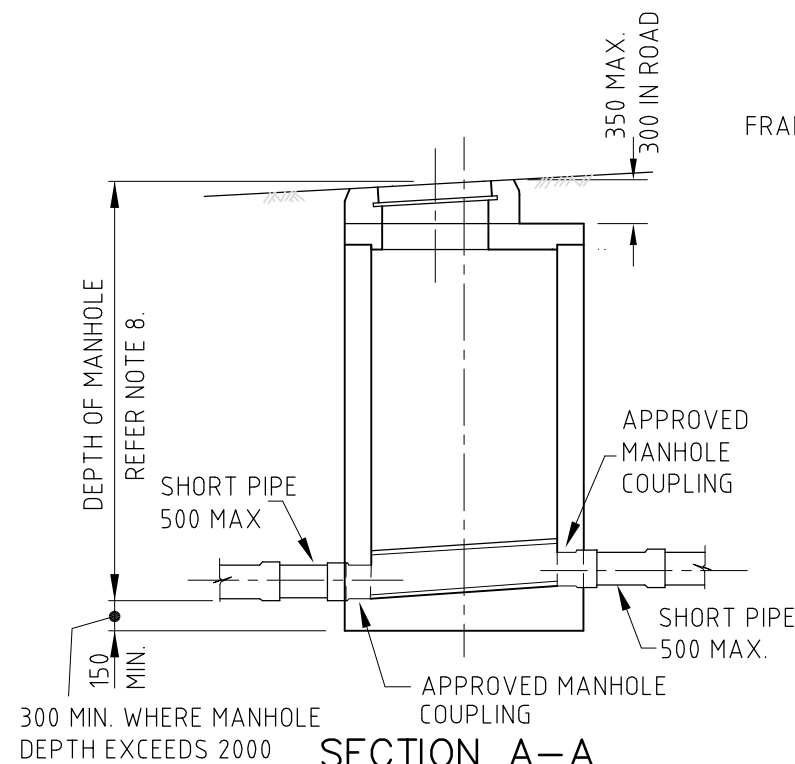
1. ALL CONCRETE TO BE GRADE N20.
2. THRUST BLOCKS SHALL BE CAST AGAINST THE UNDISTURBED SIDE OF THE TRENCH. KEEP CONCRETE CLEAR OF SOCKETS, FLANGES AND BOLTS.
3. THE TABLE OF DIMENSIONS ASSUME A TEST PRESSURE OF 900 kPa. (90m HEAD). VARIATION FROM THE DIMENSIONS SHOWN WILL BE SUBJECT TO JUSTIFICATION BY CALCULATIONS.
4. POLYETHYLENE SLEEVING SHALL COMPLY WITH THE REQUIREMENTS OF COUNCIL'S STANDARD SPECIFICATION SS1.
5. DIMENSIONS ARE IN MILLIMETRES UNLESS SHOWN OTHERWISE.

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														A	

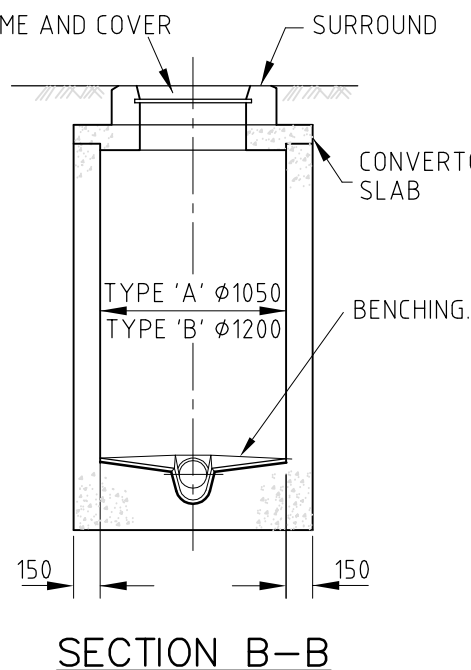




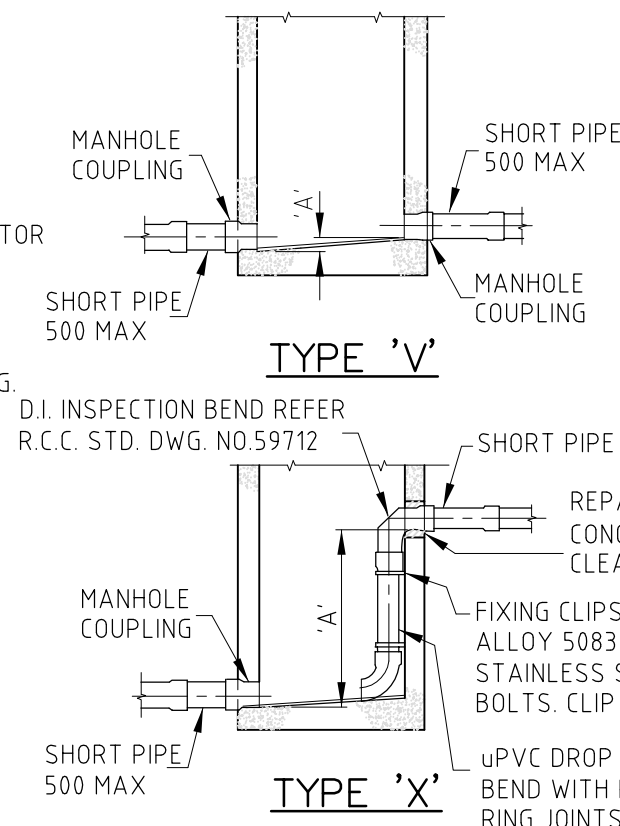
- NOTES:**
1. ALL HOUSE CONNECTION BRANCHES SHALL HAVE A MINIMUM GRADE OF 1 in 60 FOR  $\phi 100$  AND 1 in 80 FOR  $\phi 150$ .
  2. LIMIT OF WORKS - ALL HOUSE CONNECTION BRANCHES SHALL FINISH WITH AN INSPECTION TEE WITH THE END AND INSPECTION OPENING SCREW CAPPED TO THE INVERT LEVEL SHOWN ON THE DRAWINGS.
  3. ALL HOUSE CONNECTION BRANCHES CROSSING ROADS SHALL CONNECT INTO MANHOLES.
  4. SHOULD A TYPE 'C' HOUSE CONNECTION BE AT A DEPTH GREATER THAN 2500 (SURFACE LEVEL TO INVERT LEVEL), THE OBLIQUE JUNCTION AND ADJOINING BEND SHALL BE EITHER DUCTILE IRON WITH A FUSION BONDED EPOXY COATING OR G.R.P. DROP SEWER JUNCTION (JOINT COMMITTEE APPROVED) OR FACTORY ASSEMBLED FITTING APPROVED BY COUNCIL.
  5. BEDDING MATERIAL SHALL COMPLY WITH THE REQUIREMENTS OF COUNCIL'S STANDARD SPECIFICATION SS1.
  6. PROVIDE CONCRETE CRADLE IN LOCATIONS OTHER THAN SAND. BEDDING ZONE MATERIAL SHALL BE USED IN SAND LOCATIONS AS DIRECTED BY THE SUPERINTENDENT.
  7. CONCRETE SURROUNDS AND CRADLES SHALL BE CONCRETE GRADE N20 FIRMLY PACKED TO SUPPORT OBLIQUE JUNCTION AND PIPES. THE SURROUNDS SHALL EXTEND FROM THE TRENCH WALLS AND FLOOR TO A MINIMUM 150 ABOVE PIPEWORK OR AS SHOWN.
  8. ALL PIPE JOINTS SHALL CONFORM WITH COUNCIL'S STANDARD SPECIFICATION SS 1 AND THE MANUFACTURERS RECOMMENDATIONS.
  9. DIMENSIONS ARE IN MILLIMETRES UNLESS SHOWN OTHERWISE.



SECTION A-A

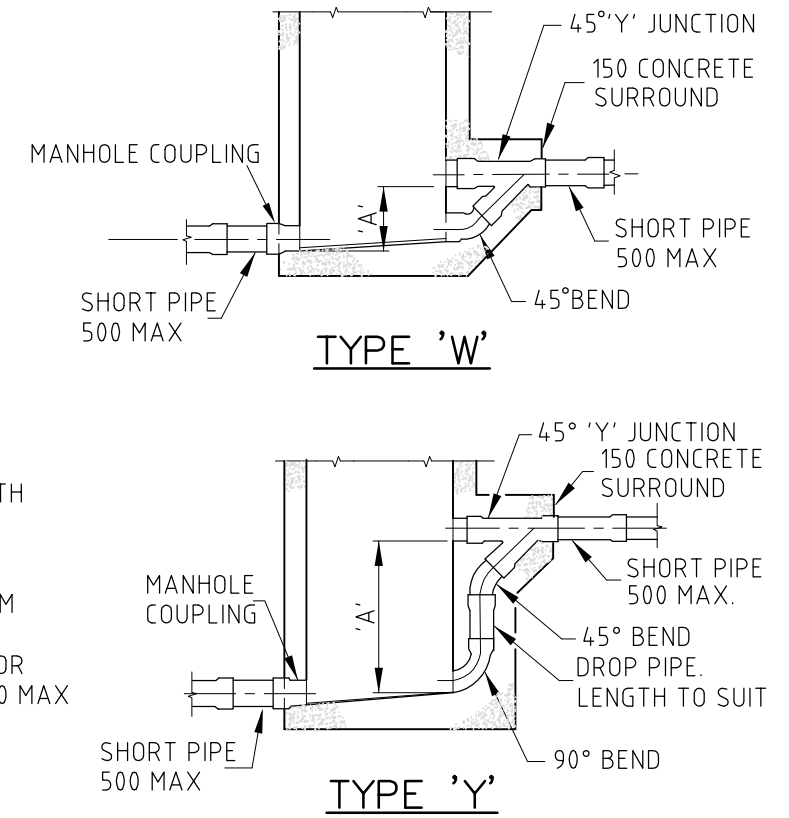


SECTION B-B



TYPE 'V'

TYPE 'X'



TYPE 'W'

TYPE 'Y'

SECTIONAL ELEVATION

BENCHING NOT SHOWN

MIN DROP THROUGH MANHOLE

MANHOLE DESCRIPTION SAME DIA's.	DIAGRAM	MIN
STRAIGHT THROUGH		20
ANGLES UP TO 45°		30
ANGLES FROM 45° TO 90°		40
BRANCH AT ANGLE		
LESS THAN 30°		30
30° TO 60°		50
60° TO 90°		80

SEWERS CHANGING DIAMETER SHALL BE GRADED OBVERT TO OBVERT.

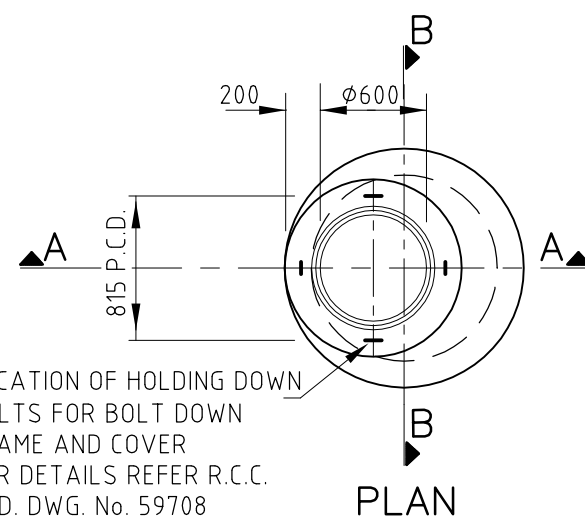
DIMENSION 'A' TABLE

NOM DIA	TYPE 'V'	TYPE 'W'	TYPE 'X'	TYPE 'Y'
	MIN	MAX	MIN	MAX
100	* 200	200	460	460
150	* 250	250	600	600
225	* 280	280	700	700
300	* 330	-	-	-

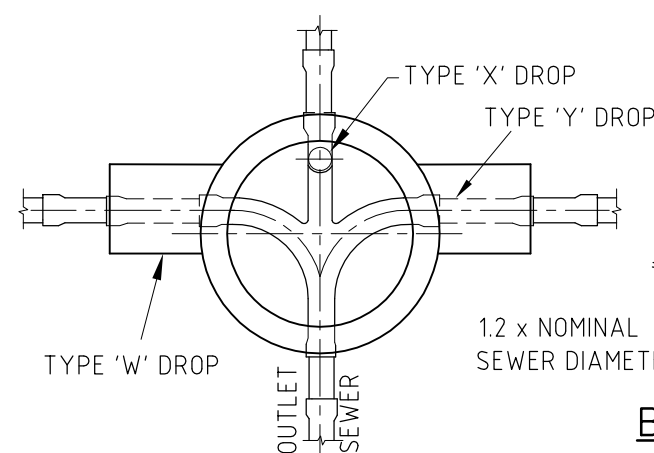
\* MINIMUM DROP THROUGH MANHOLE AS TABLED.

NOTES:

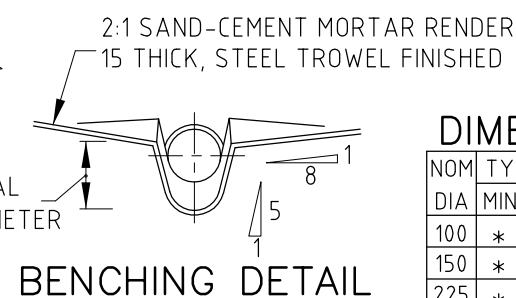
- THIS DRAWING SHOULD BE READ IN CONJUNCTION WITH R.C.C. STD. DWG. NOS. 59701 & 59708.
- CONCRETE TO BE GRADE N32.
- THE COVER, FRAME AND CONCRETE SURROUND SHALL BE FINISHED TO THE DETAILS SHOWN ON R.C.C. STD. DWG. No 59708.
- TYPE 'B' OR  $\phi 1200$  PRE-CAST MANHOLES SHALL BE USED WHERE MORE THAN ONE (1) TYPE 'X' DROP ENTERS A MANHOLE OR WHERE SHOWN ON THE DRAWINGS.
- FOR IRON INSPECTION BEND DETAILS REFER R.C.C. STD. DWG. 59712.
- ALL PIPES AND FITTINGS WITH CONCRETE SURROUNDS SHALL BE MADE WATERTIGHT.
- FLEXIBLE JOINTS SHALL BE CLEAR OF ALL CONCRETE.
- TYPE 'A' AND 'B' MANHOLES ARE SUITABLE FOR DEPTHS TO 6000. FOR DEPTHS GREATER THAN 6000 REFER TO THE DETAILS ON THE APPROVED DRAWINGS.
- MANHOLE DROP TYPES 'W', 'X' AND 'Y' SHALL ONLY BE USED IN SEWERS FROM  $\phi 100$  TO  $\phi 225$ .
- INTERNAL DROPS ARE NOT PERMITTED WHERE THE SEWER GRADIENT EXCEEDS 1 IN 10 (10%).
- DIMENSIONS ARE IN MILLIMETRES UNLESS SHOWN OTHERWISE.



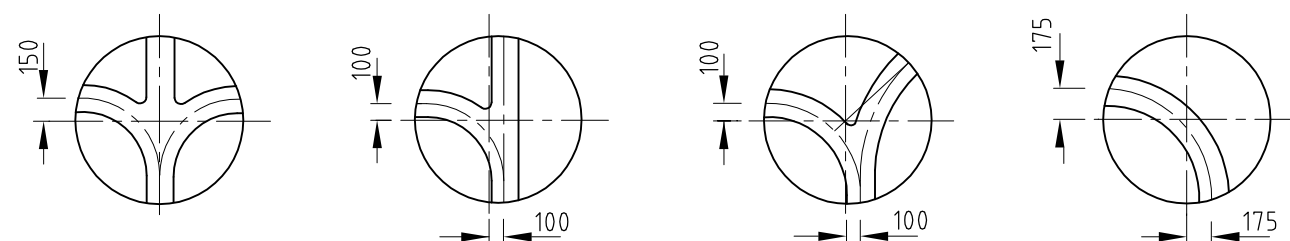
TYPICAL MANHOLE



SECTIONAL PLAN

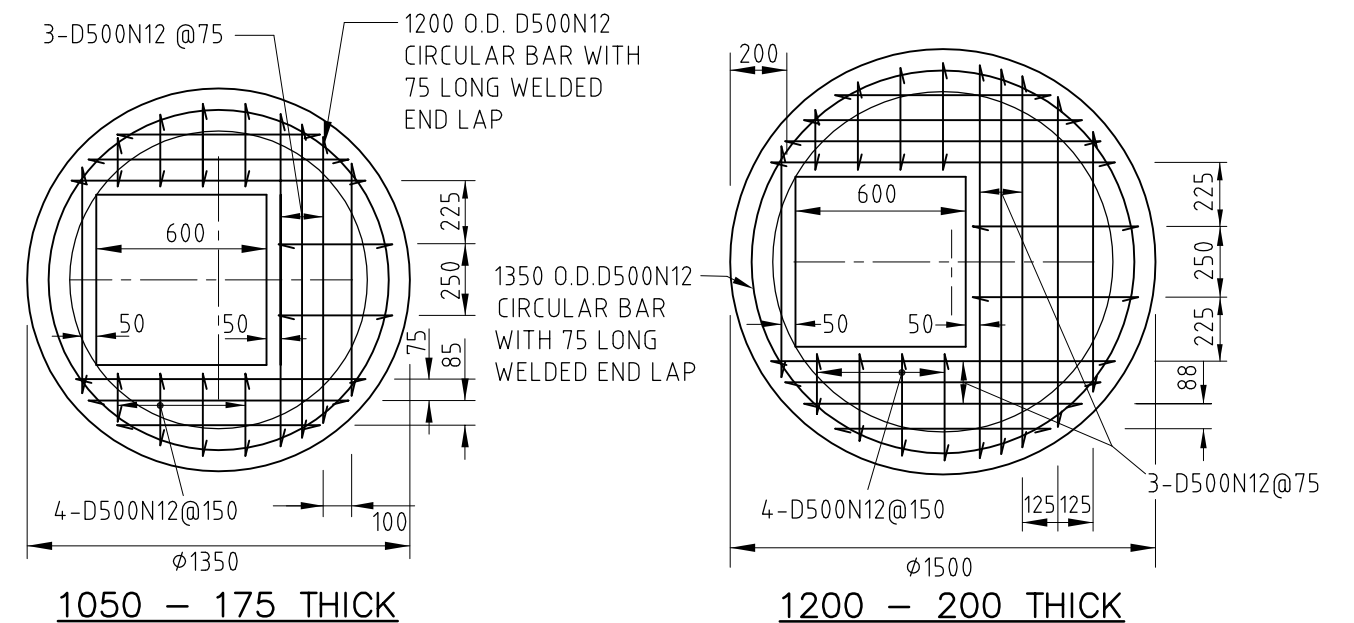
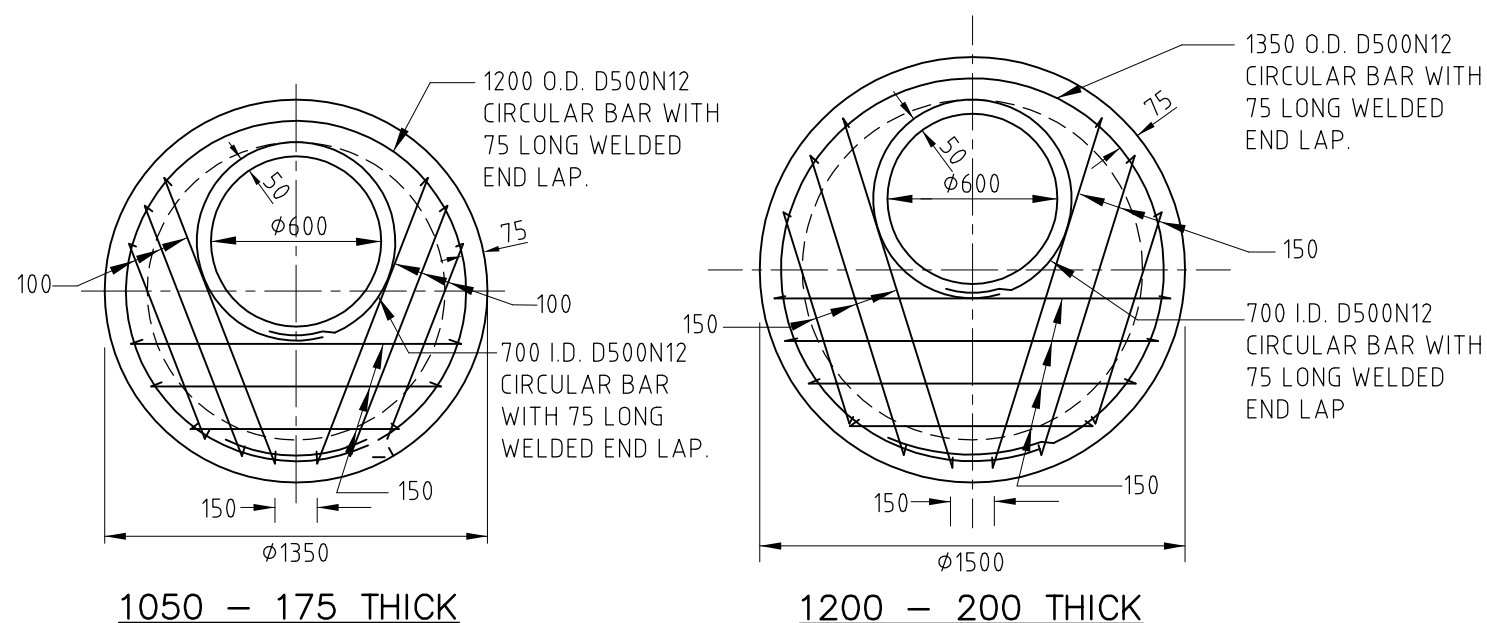


BENCHING DETAIL

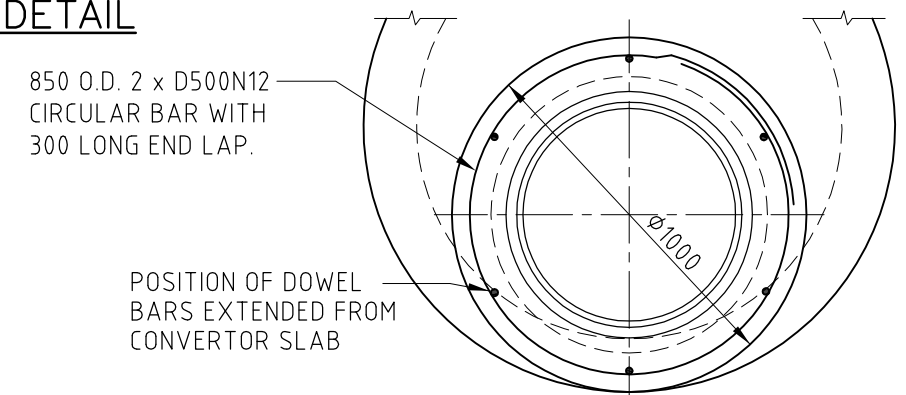
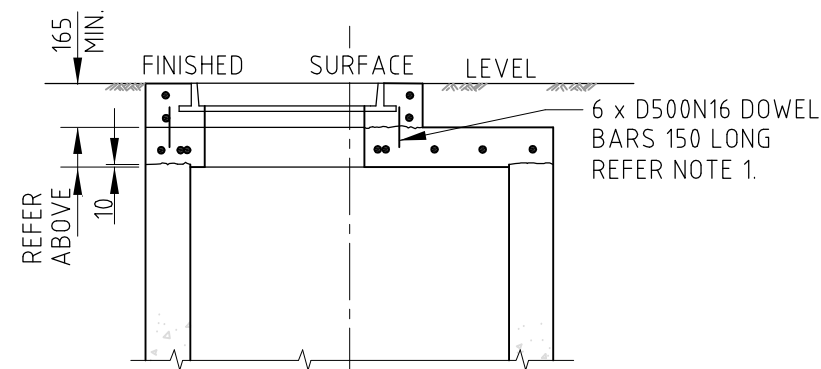
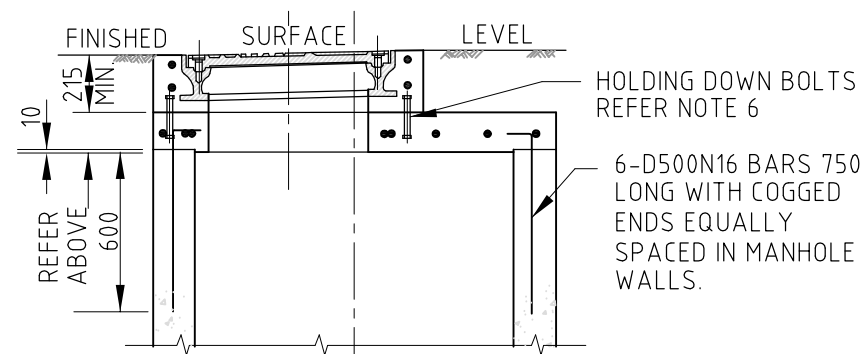


SEWER OFFSETS FOR BENCHING REQUIREMENTS



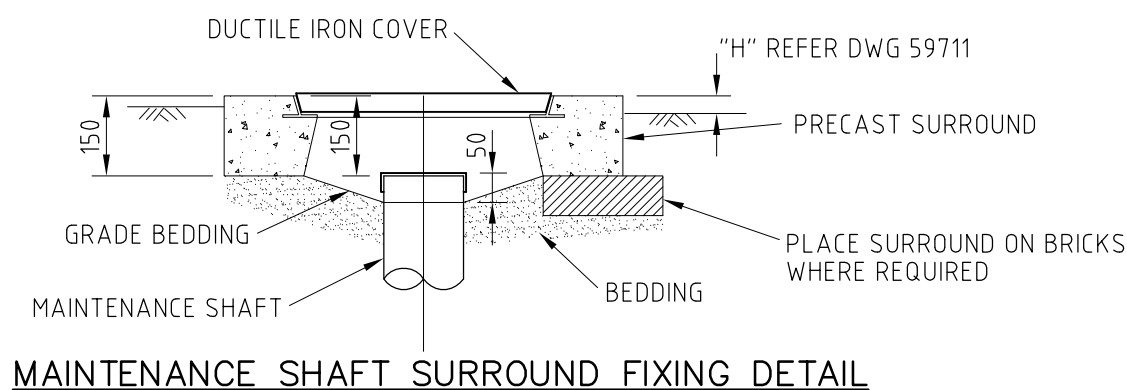


### CONVERTOR SLAB REINFORCEMENT FOR CIRCULAR MANHOLE DETAIL

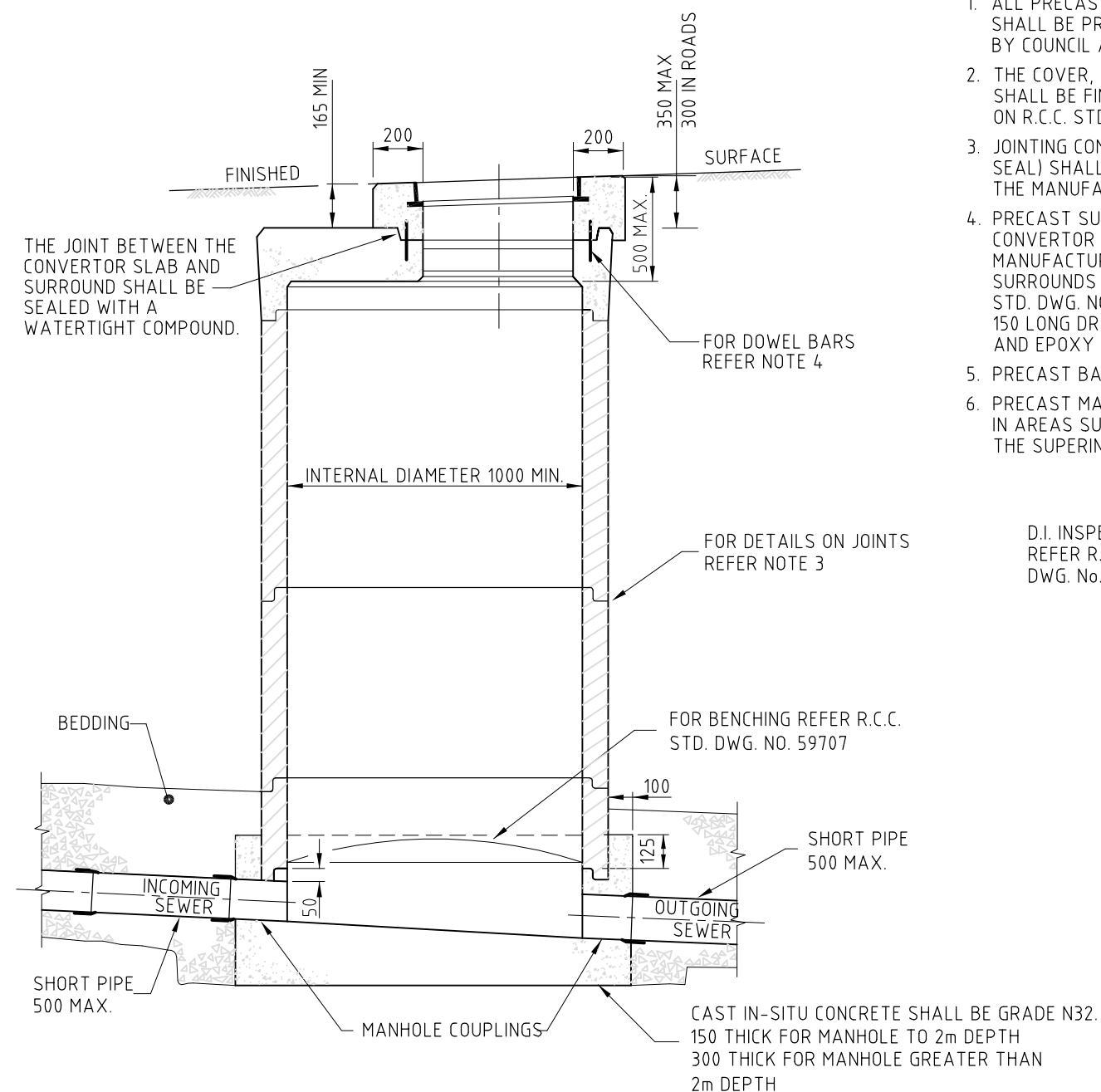


NOTES:

1. THIS DRAWING SHOULD BE READ IN CONJUNCTION WITH R.C.C. STD. DWGS. 59707, 59710, 59711 & 59304.
2. ALL INSITU CONCRETE SHALL BE GRADE N32.
3. REINFORCING BARS TO BE TO AS/NZS 4671:2001 WITH 50 COVER BOTTOM FACE.
4. SQUARE CONVERTOR SLABS SHALL BE CONSTRUCTED WHERE DEPTH OF MANHOLE IS LESS THAN 1200.
5. ALL JOINT FACES SHALL BE WELL SCABBLED AND MADE WATERTIGHT.
6. HOLDING DOWN BOLTS SHALL BE 4 X M16 BOLTS 150 LONG HEXAGONAL HEAD AND NUT. SHANKS TO PROJECT 50 ABOVE CONVERTOR SLAB.
7. DIMENSIONS ARE IN MILLIMETRES UNLESS SHOWN OTHERWISE.

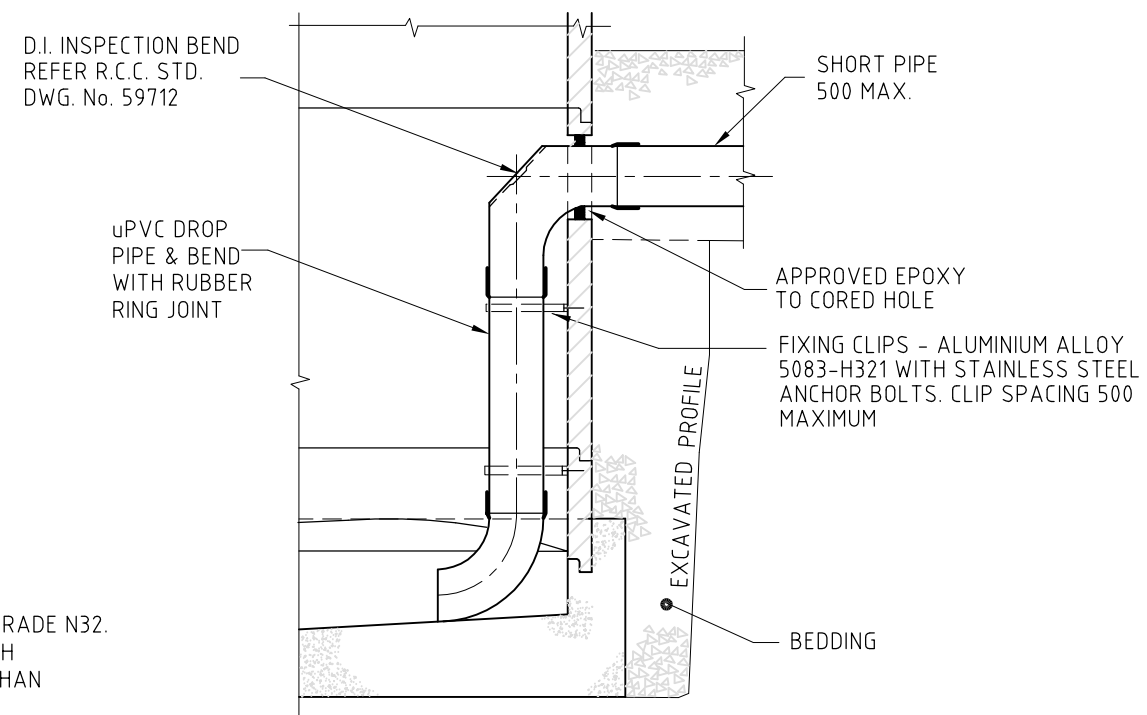


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A		ORIGINAL ISSUE		REVISIONS		RCC		APPRO													
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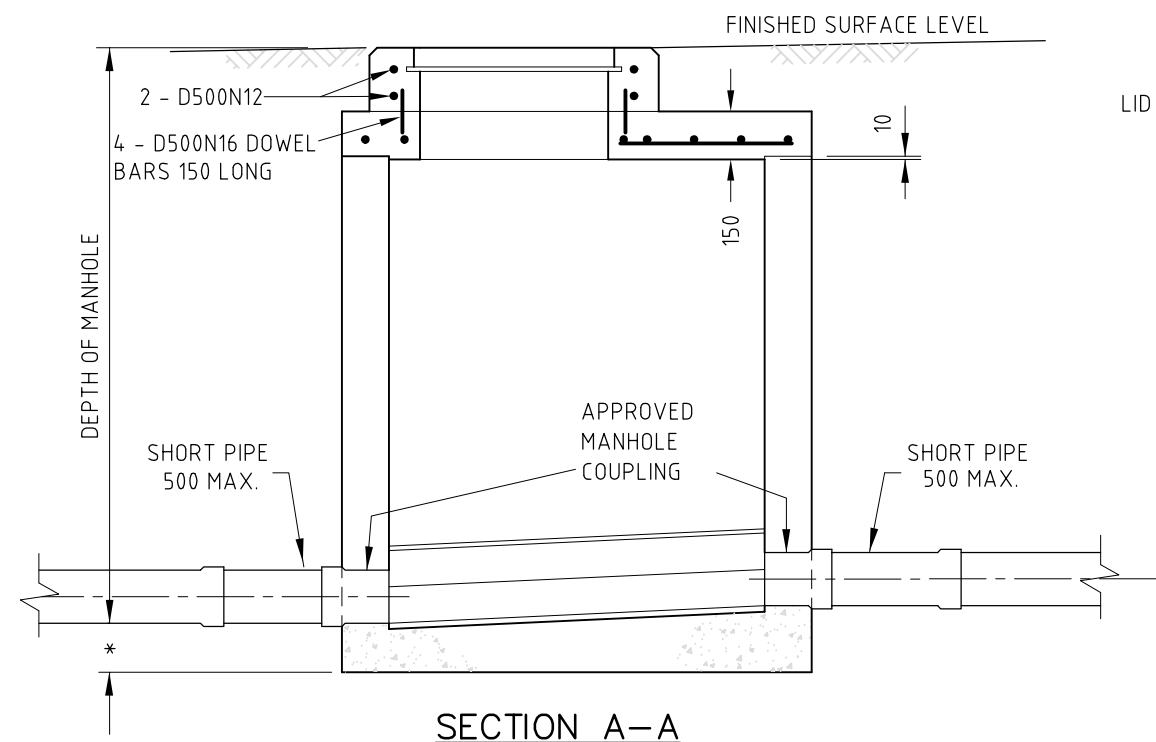


NOTES:

1. ALL PRECAST SEWER MANHOLE COMPONENTS SHALL BE PROPRIETARY PRODUCTS APPROVED BY COUNCIL AND MANUFACTURED TO A.S.4198.
2. THE COVER, FRAME AND CONCRETE SURROUND SHALL BE FINISHED TO THE DETAILS SHOWN ON R.C.C. STD. DWG. No. 59708.
3. JOINTING COMPONENTS (RUBBER RING & MASTIC SEAL) SHALL BE INSTALLED IN ACCORDANCE WITH THE MANUFACTURERS RECOMMENDATIONS.
4. PRECAST SURROUNDS SHALL BE FIXED TO THE CONVERTOR SLAB IN ACCORDANCE WITH THE MANUFACTURERS RECOMMENDATIONS. CAST IN-SITU SURROUNDS SHALL BE IN ACCORDANCE WITH R.C.C. STD. DWG. NO. 59708 WITH 6 x D500N16 DOWEL BARS 150 LONG DRILLED 75 INTO THE CONVERTOR SLAB AND EPOXY GLUED IN PLACE.
5. PRECAST BASE UNITS ARE NOT APPROVED FOR USE.
6. PRECAST MANHOLES SHALL NOT BE CONSTRUCTED IN AREAS SUBJECT TO INUNDATION AS DIRECTED BY THE SUPERINTENDENT.
7. INLET SEWER ENTRIES SHALL BE DRILLED AS SPECIFIED AND SHALL NOT BE LOCATED AT SHAFT SECTION JOINTS. HOLES MADE BY IMPACT METHODS SHALL BE REJECTED.
8. INTERNAL DROPS ARE NOT PERMITTED WHERE THE SEWER GRADE EXCEEDS 1 IN 10 (10%).
9. WHERE MORE THAN ONE TYPE 'X' DROP IS REQUIRED THE MANHOLE SHALL BE 1200 DIAMETER.
10. EXTERNAL DROPS ARE NOT APPROVED FOR USE WITH PRECAST MANHOLES.
11. BOLT DOWN LIDS SHALL NOT BE USED WITH PRECAST MANHOLES.
12. MANHOLE DROPS TYPE 'X' SHALL NOT BE USED IN  $\phi 300$  SEWERS.
13. DIMENSIONS ARE IN MILLIMETRES UNLESS SHOWN OTHERWISE.

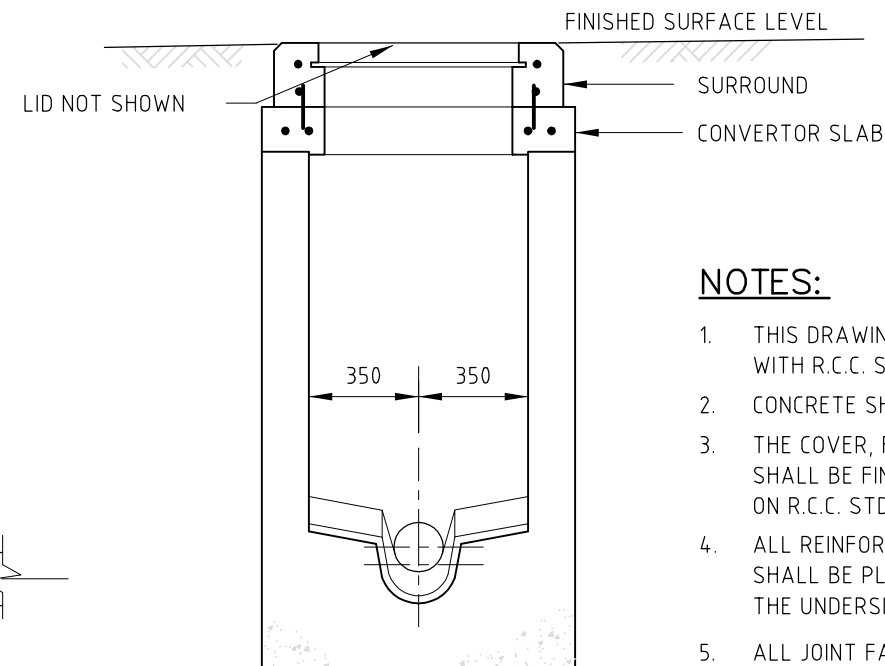


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IRENE STREET REDCLIFFE PO BOX 66, REDCLIFFE QLD 4020 PHONE: (07) 3283 0233 FAX: (07) 3883 1723 WEB SITE: <a href="http://www.redcliffe.qld.gov.au">www.redcliffe.qld.gov.au</a>										RCC STANDARD DRAWINGS – SEWERAGE										SEWERAGE MANHOLES USING PRECUTS COMPONENTS										DATE: 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\* 150 - FOR MANHOLES TO 2m DEPTH  
300 - FOR MANHOLES GREATER THAN 2m DEPTH

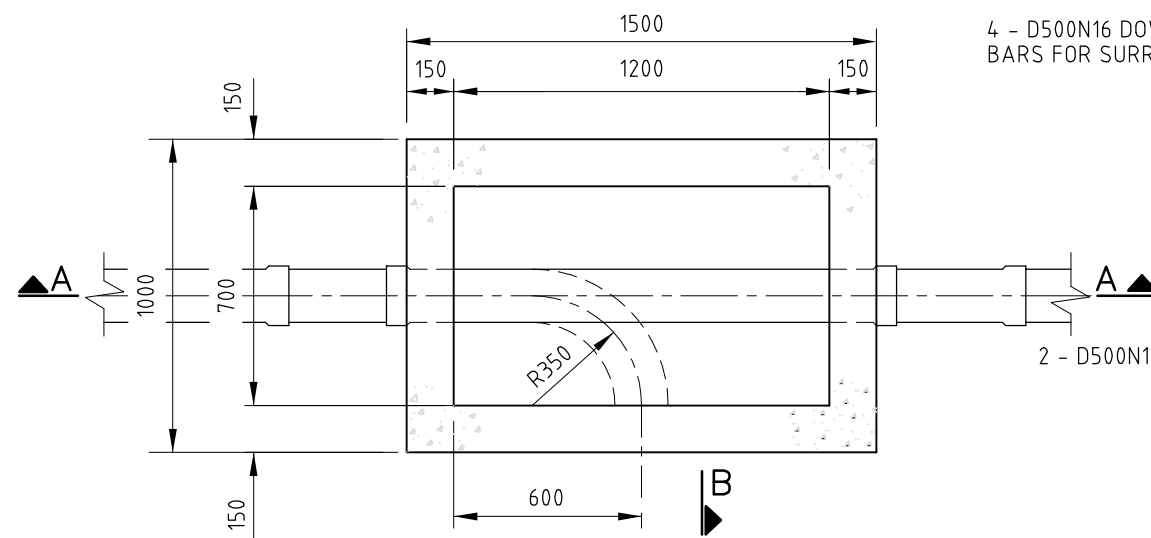
SECTION A-A



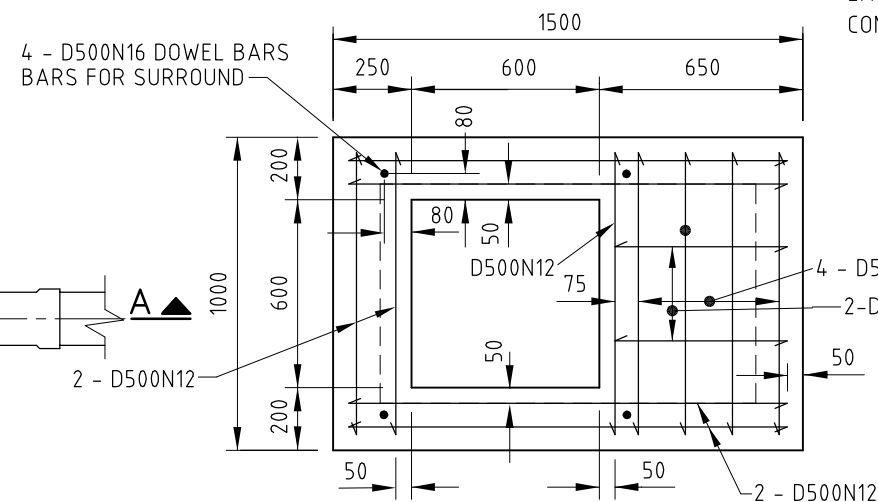
SECTION B-B

**NOTES:**

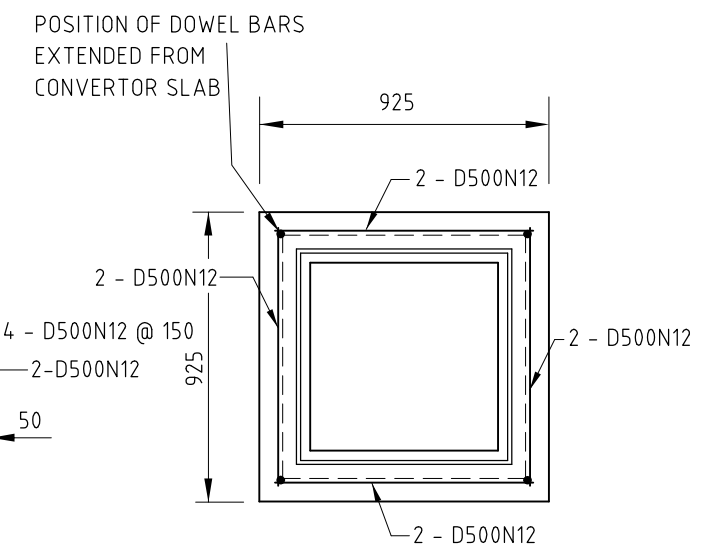
1. THIS DRAWING SHOULD BE READ IN CONJUNCTION WITH R.C.C. STD. NO.S 59707 & 59711.
2. CONCRETE SHALL BE GRADE N32.
3. THE COVER, FRAME AND CONCRETE SURROUND SHALL BE FINISHED TO THE DETAILS SHOWN ON R.C.C. STD. DWG. No. 59708.
4. ALL REINFORCING BARS IN THE TOP SLAB SHALL BE PLACED TO HAVE 50 COVER TO THE UNDERSIDE OF THE SLAB.
5. ALL JOINT FACES SHALL BE WELL SCABBLED TO ENSURE WATERTIGHT JOINTS.
6. DIMENSIONS ARE IN MILLIMETRES UNLESS SHOWN OTHERWISE.



PLAN

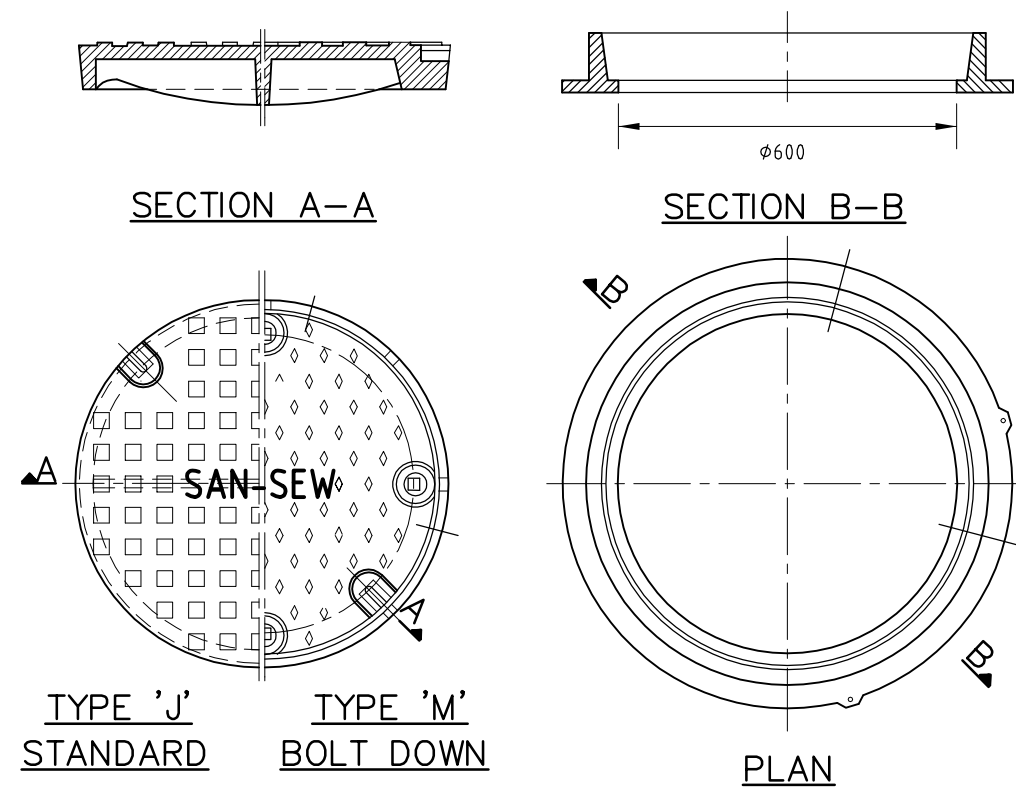


CONVERTOR SLAB REINFORCEMENT



SURROUND REINFORCEMENT AND ATTACHMENT DETAIL

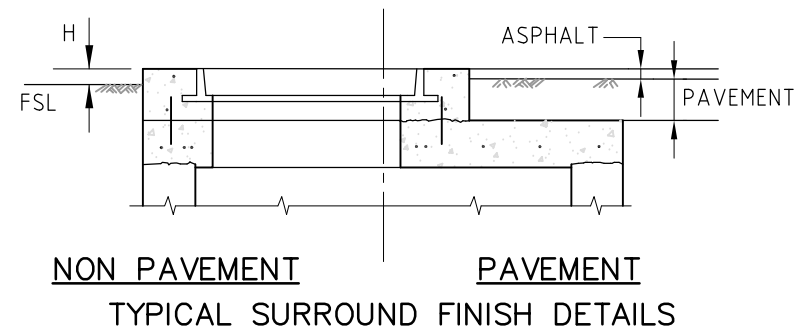
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A	DATE	ORIGINAL ISSUE	REVISIONS	REC.	APPR.									S-0010	A



DUCTILE IRON COVER & FRAME  
TYPES 'J' AND 'M'

BOLT DOWN COVER NOTES:

- FOR TYPE 'M' COVERS PROVIDE A MINIMUM OF 2 x M10 (MINIMUM) 316 STAINLESS STEEL HOLD DOWN BOLTS WITH NYLON WASHERS.
- FOR TYPE 'L' COVERS PROVIDE A MINIMUM OF 4 x M10 (MINIMUM) 316 STAINLESS STEEL HOLD DOWN BOLTS WITH NYLON WASHERS.
- FOR TYPE 'M' COVERS PROVIDE 4 REGISTERS IN COVERS AND FRAMES AS DETAILED IN CLAUSE 1.4.2.7. OF AS3996.

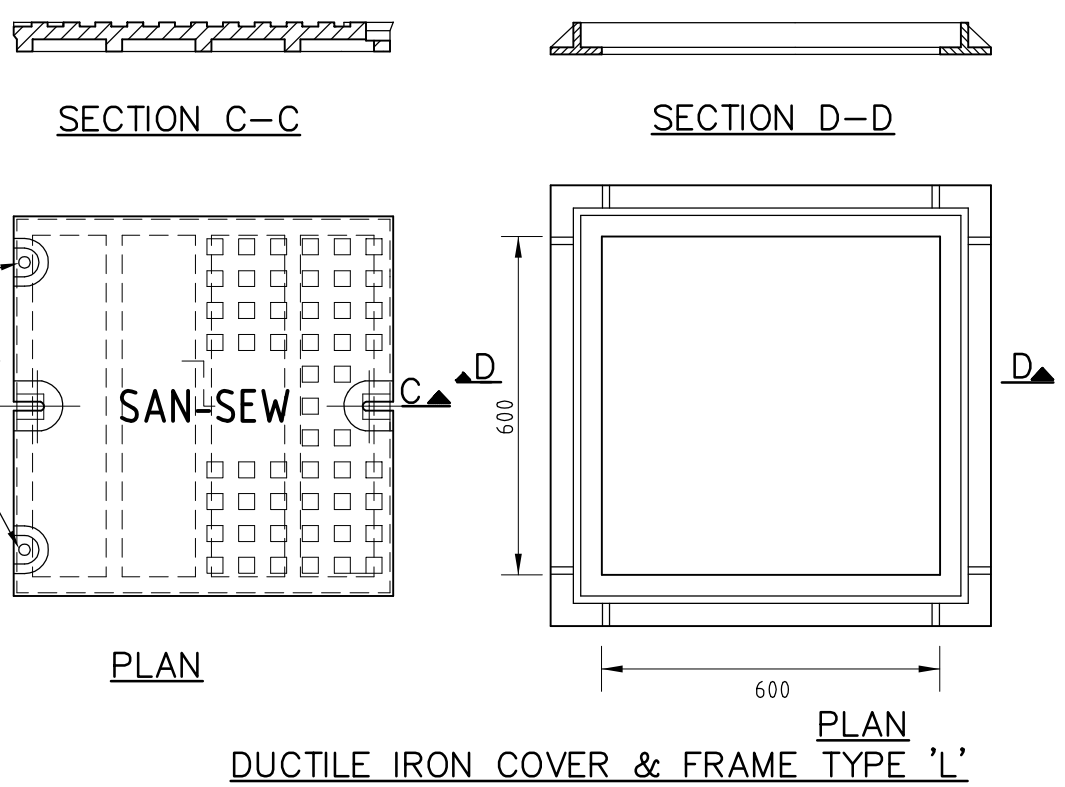


COVER USAGE

COVER & FRAME	LOCATION
CLASS B COVER	PRIVATE PROPERTY PUBLIC RESERVES FOOTPATH & VERGE
CLASS D COVER	STREET & ROAD CARRIAGEWAYS INDUSTRIAL/COMMERCIAL DRIVEWAYS
BOLT DOWN COVER (CAST INSITU MANHOLES)	LOCATIONS SUBJECT TO FLOODING.

MANHOLE LOCATION	'H'
PAVEMENTS & FOOTPATHS	FLUSH
UNDEVELOPED AREAS	300
NEW SUBDIVISIONS	50
EXISTING DEVELOPED AREAS	25

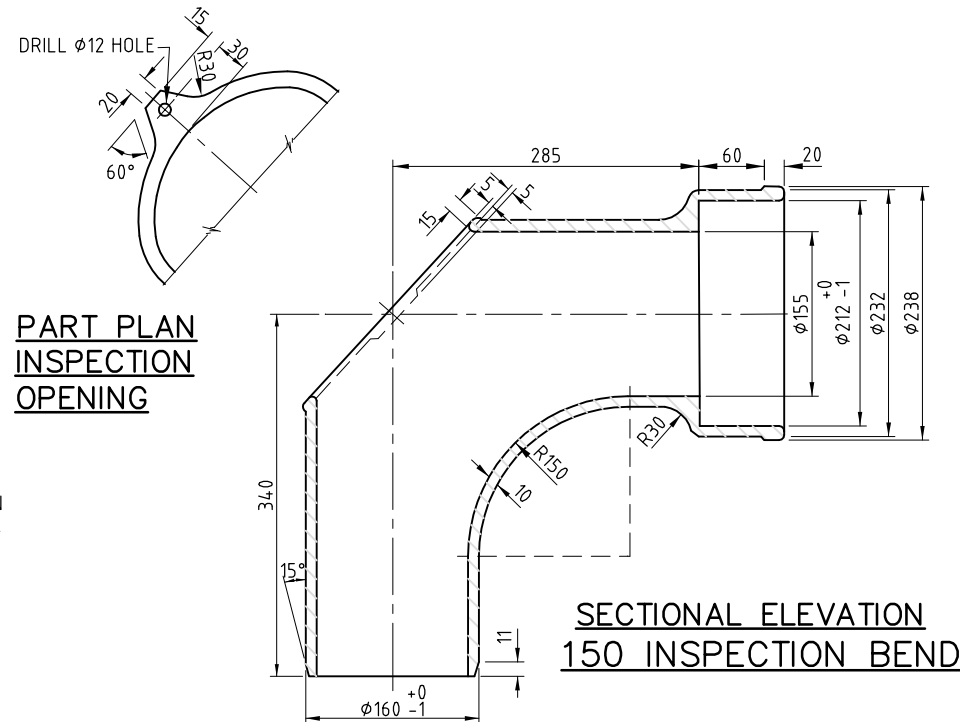
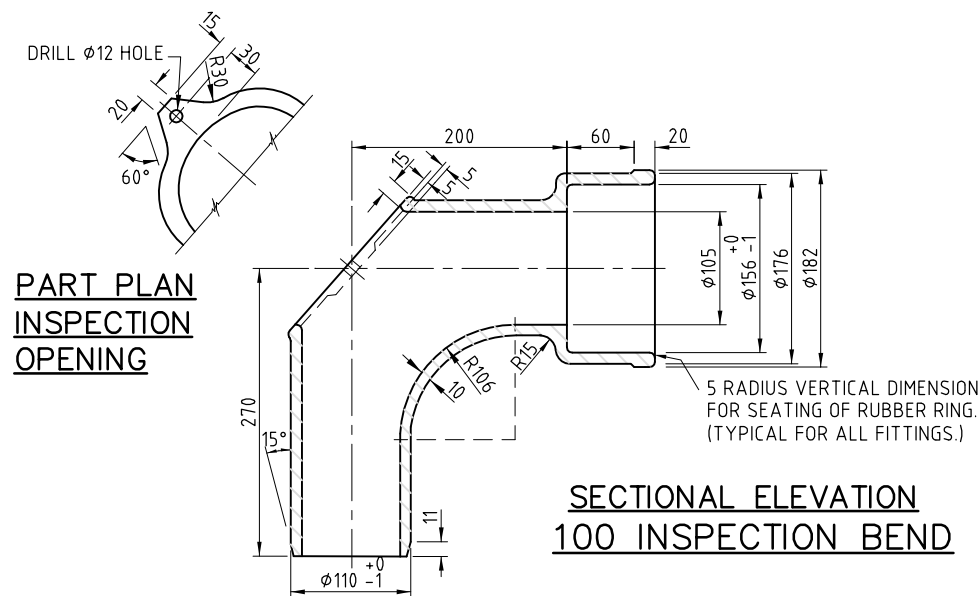
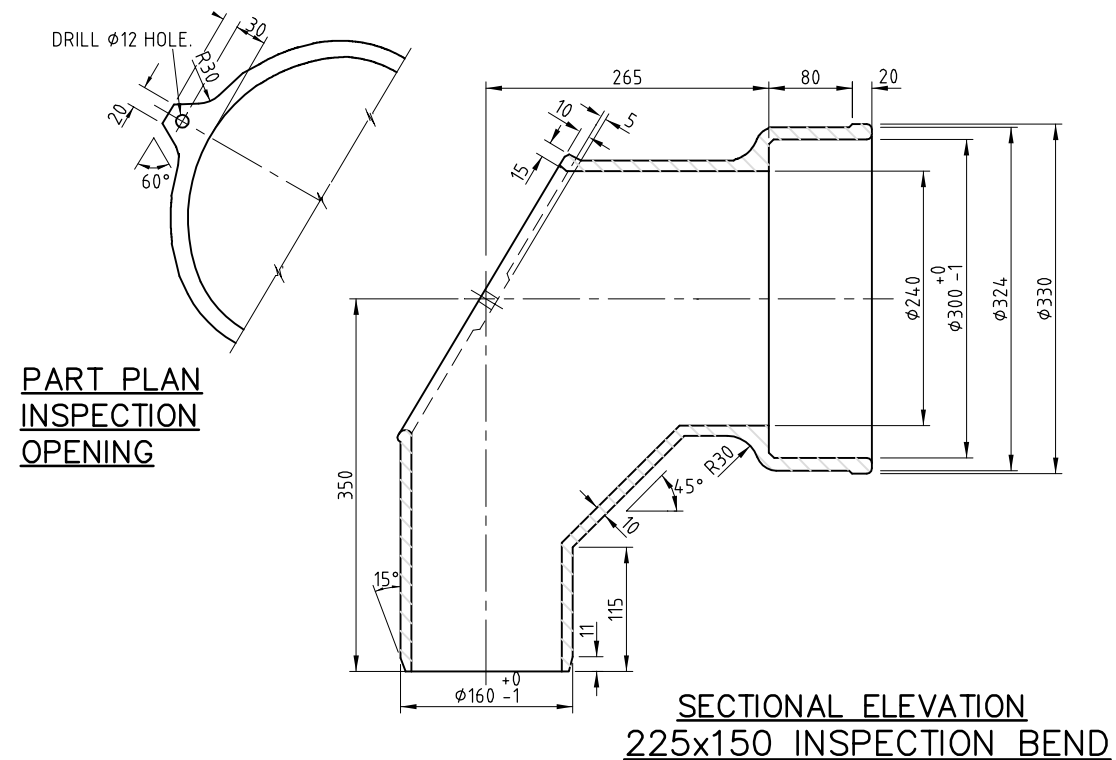
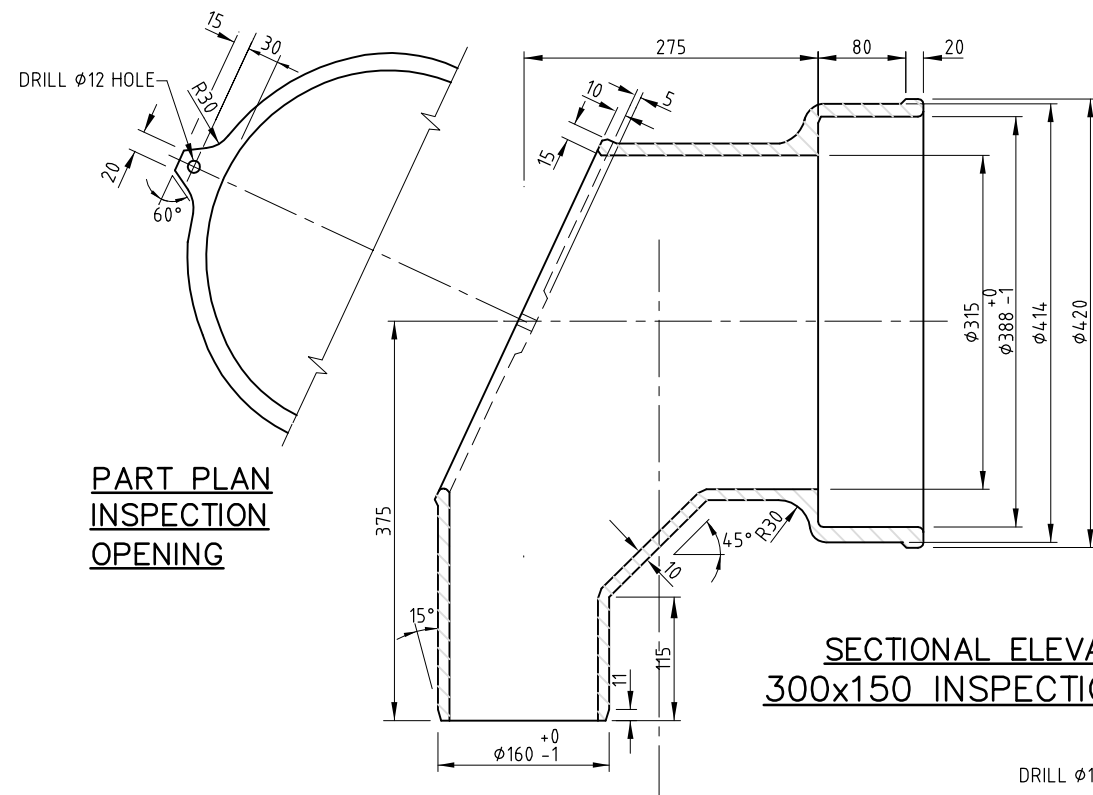
SURROUND AND COVER FINISHED LEVELS



DUCTILE IRON COVER & FRAME TYPE 'L'

GENERAL NOTES:

- ALL COVERS AND FRAMES SHALL BE PROPRIETARY PRODUCTS APPROVED BY COUNCIL AND CONFORMING WITH AS 3996.
- ALL COVERS SHALL HAVE:-
  - 'SAN-SEW' OR 'SEWER' CAST ON THE TOP FACE IN 3 HIGH LETTERING (65 HIGH AND 40 WIDE)
  - THE CLASS, TYPE AND WEIGHT CAST ON THE TOP FACE IN LEGIBLE 3 HIGH LETTERING.
- COVER TYPE 'M' SHALL BE USED IN ALL SITUATIONS WHERE THE TOP OF THE MANHOLE IS BELOW FLOOD LEVEL.
- ALL DUCTILE IRON COMPONENTS SHALL COMPLY WITH AS.1831 GRADE 600/3
- SURFACE FINISH SHALL BE SQUARED OR DIAMOND PATTERNED.
- DIMENSIONS ARE IN MILLIMETRES UNLESS SHOWN OTHERWISE.



#### NOTES:

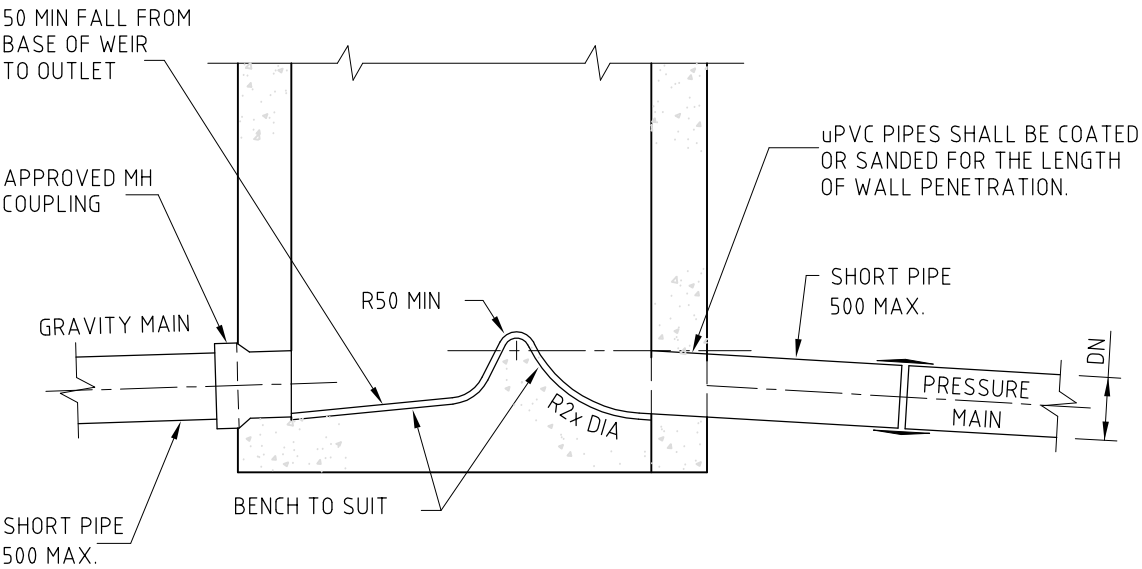
1. ALL SMALL RADII SHALL BE 5.
2. ALL FITTINGS FOR USE WITH u.P.V.C. DROP PIPES SHALL BE RUBBER RING JOINED TO IN-COMING SEWER.
3. ALL FITTINGS FOR USE WITH V.C. PIPE/V.C. ADAPTOR PIPE SHALL BE RUBBER RING JOINED TO IN-COMING SEWER.
4. ALL FITTINGS SHALL BE CAST SPHEROIDAL GRAPHITE IRON GRADE 500/320/7 TO COMPLY WITH AS.1831.
5. SLASH COVERS SHALL BE 3 THICK u.P.V.C. SHEET WITH M10 NYLON NUTS & BOLTS TO SUIT.
6. DIMENSIONS ARE IN MILLIMETRES UNLESS SHOWN OTHERWISE.

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NOTES

- 1. BENCHING NOT SHOWN.
- 2. SEWERS DOWNSTREAM OF PRESSURE MAIN DISCHARGE MANHOLE SHALL BE OF NON-CORROSIVE PIPE FOR THE GREATER LENGTH OF 90m OR THE TOTAL LENGTH OF THE RUNS CONNECTING THE TWO MANHOLES DOWNSTREAM OF THE DISCHARGE MANHOLE.
- 3. THE DISCHARGE MANHOLE AND ANY MANHOLE DOWNSTREAM WITHIN 90m SHALL BE INTERNALLY COATED WITH A PROTECTIVE COATING.
- 4. FOR PROTECTIVE COATING REQUIREMENTS REFER TO COUNCIL'S STANDARD SPECIFICATION SS1.
- 5. DIMENSIONS ARE IN MILLIMETRES UNLESS SHOWN OTHERWISE.



PART SECTIONAL ELEVATION  
PRESSURE MAIN DISCHARGE MANHOLE

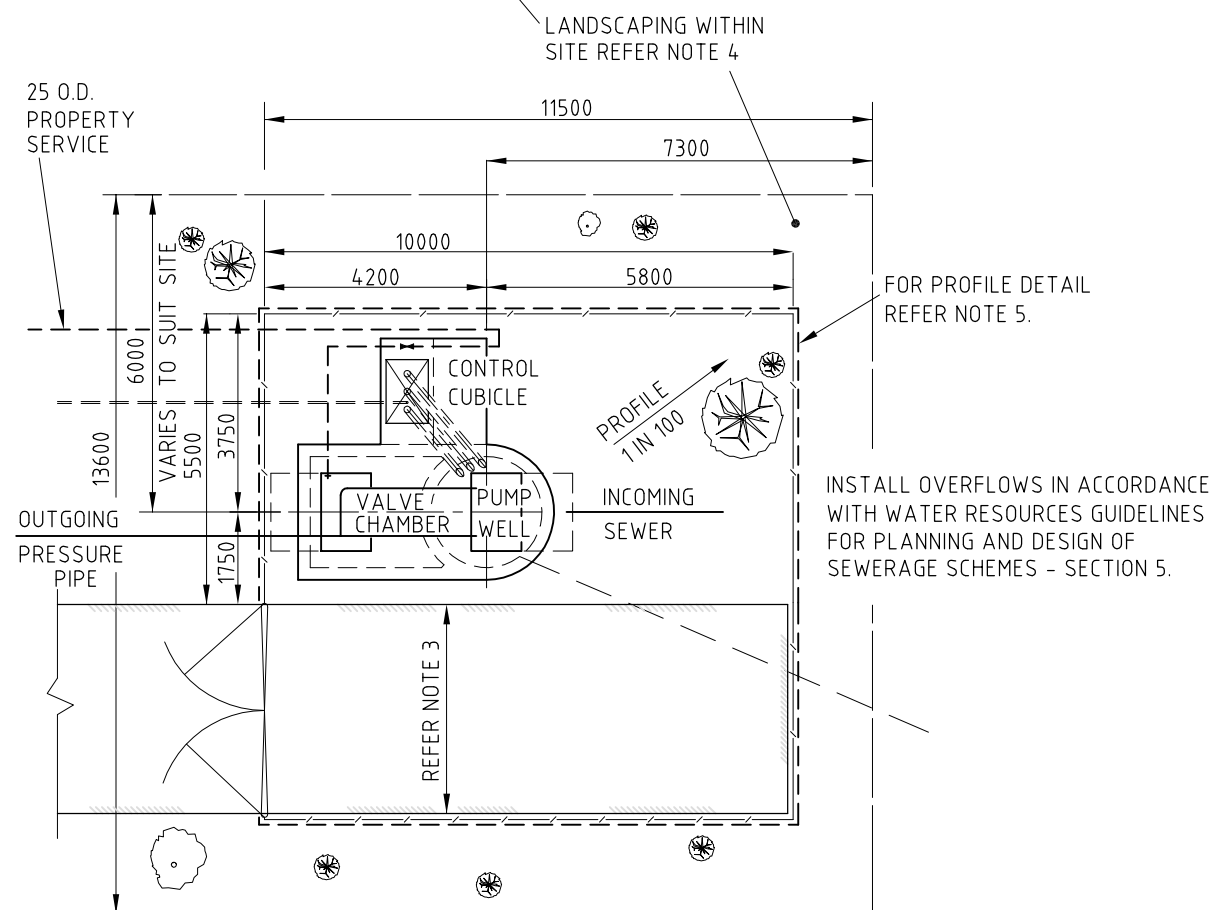
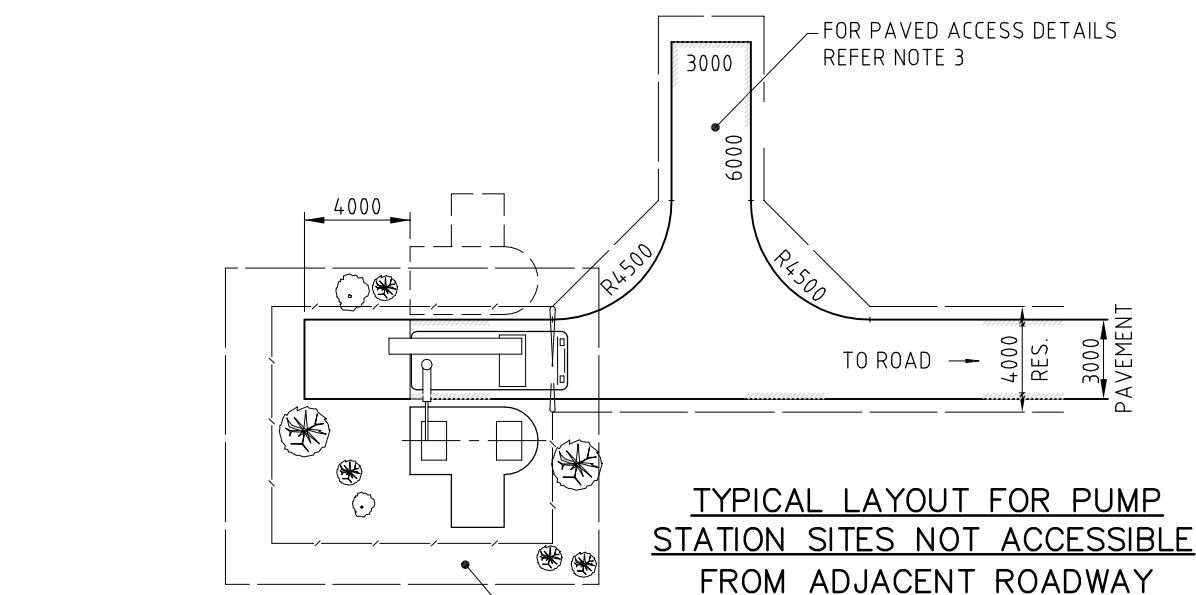
					REDCLIFFE CITY COUNCIL Copyright in the whole and every part of this drawing belongs to Redcliffe City Council and may not be used, sold, transferred, copied or reproduced in whole or in part in any manner or form or on any media, to any person other than by agreement with Redcliffe City Council.	SURVEY:	A3	DATUM: A.H.D.	REDCLIFFE  City Council	IRENE STREET REDCLIFFE PO BOX 66, REDCLIFFE QLD 4020 PHONE: (07) 3283 0233 FAX: (07) 3883 1723 WEB SITE: www.redcliffe.qld.gov.au	RCC STANDARD DRAWINGS - SEWERAGE	DATE: 26.07.06	Rv.
					This document is produced by Redcliffe City Council solely for the benefit of and use by RCC in accordance with the terms of the retailer. Redcliffe City Council does not and shall not assume any responsibility or liability whatsoever to any third party arising out of any use or reliance by third party on the content of this document.	DESIGNED:		CHECKED:			DETAILS OF SEWERAGE PRESSURE MAIN SCOUR VALVE ARRANGEMENT	DRAWING No:	
A	DATE	ORIGINAL ISSUE	REVISIONS	REC.	APPR.	RECOMMENDED:		APPROVED:				S-0013	A



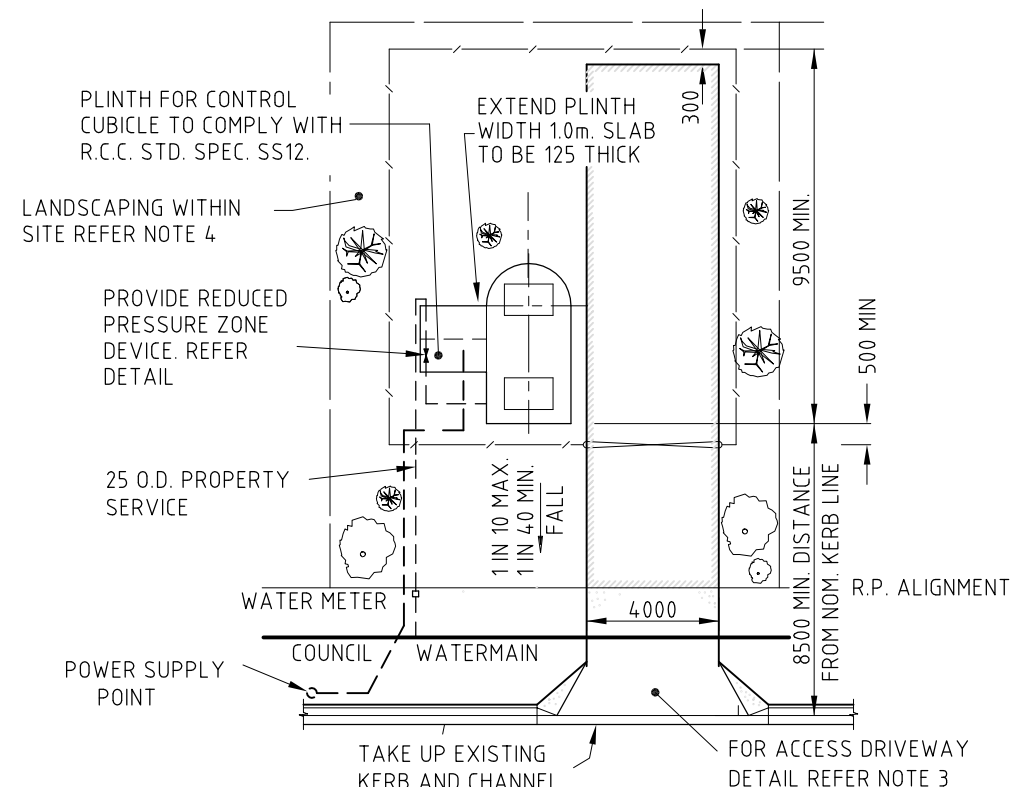
1. PROVIDE A Ø150 OVERFLOW PIPE AND FLAP VALVE TO SEWERAGE MANHOLE. REFER R.C.C. STD. DWG. No 59722. GRADE OVERFLOW DOWN TO MANHOLE.
2. THE DUCTILE IRON PIPE SHALL BE EXTENDED THROUGH CORED HOLE INTO MANHOLE. APPLY APPROVED EPOXY MORTAR TO HOLE.
3. THE ARRANGEMENT SHOWN IS FOR Ø100 AND Ø150 MAINS WITH 80 SCOUR TEES. MAINS Ø225 TO Ø300 DO NOT REQUIRE A TAPER FOR Ø100 SCOUR OUTLET.
4. CONCRETE SURROUND, BOX & MH COVER SHALL BE PAINTED WITH APPROVED DULUX MULBERRY PAINT.
5. FOR PAVEMENT AND KERB & CHANNEL MARKING DETAILS REFER R.C.C. STD. DWG. No. 59727.
6. FOR CONCRETE SURROUND, SUPPORT AND VALVE BOX DETAILS REFER R.C.C. STD. DWG. NO. 59610
7. DIMENSIONS ARE IN MILLIMETRES UNLESS SHOWN OTHERWISE.

[illegible]





**TYPICAL FENCED AREA PLAN**



**TYPICAL LAYOUT FOR PUMP STATION SITES  
ACCESSIBLE FROM ADJACENT ROADWAY**

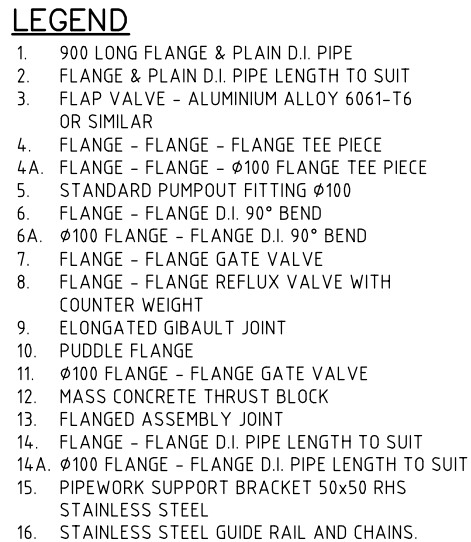
### NOTES: GENERAL

- THE DETAIL SHOWN ON THIS DRAWING IS TYPICAL ONLY. THE LOCATION OF ALL ITEMS WILL BE AS SHOWN ON THE APPROVED DRAWINGS.
- THIS DRAWING SHOULD BE READ IN CONJUNCTION WITH R.C.C. STD. DWG. NO'S. 59717 AND 59724.
- DRIVEWAY ACCESS TO ALL PUMP AND LIFT STATIONS SHALL BE PROVIDED AS FOLLOWS:
  - LONGITUDINAL GRADE TO BE MAXIMUM 10%.
  - LOCATED SO VEHICULAR TRAFFIC WILL NOT TRAVERSE THE COVERS.
  - HEAVY VEHICLE ACCESS DRIVEWAYS AS PER I.P.W.E.A. STD. DWGS. NO. R-0051 & R-0052 AND APPROVED ENGINEERING DETAILS.
- THE PUMP AND LIFT STATION SITES WITHIN THE FENCED AREA SHALL BE A MIN.156.4m<sup>2</sup> AS DIRECTED. THE SURROUNDS SHALL BE LANDSCAPED AND GRASSED IN ACCORDANCE WITH THE APPROVED SITE PLAN.
- PUMP STATION PLATFORM SHALL BE PROFILED TO SLOPE 1 IN 100 AWAY FROM OPENINGS AND CONTROL CUBICLE PLINTH & THEN BATTER AT 1 IN 6 (MAX.) TO NATURAL SURFACE. BATTER TO COMMENCE 100 BEYOND THE FENCE ALIGNMENT.
- WHERE REQUIRED PROVIDE A 1.8m HIGH MANPROOF FENCE AND 4.0m WIDE DOUBLE LEAF LOCKABLE GATE AS DETAILED ON THE APPROVED DRAWINGS.
- DIMENSIONS ARE IN MILLIMETRES UNLESS SHOWN OTHERWISE.

### WATER METER

- COUNCIL SHALL INSTALL A 25 WATER METER AFTER AN APPLICATION STATING THE NUMBER AND NAME OF THE STATION AND THE PRESCRIBED FEES HAVE BEEN PAID. THE APPLICATION SHALL BE IN THE NAME OF COUNCIL.

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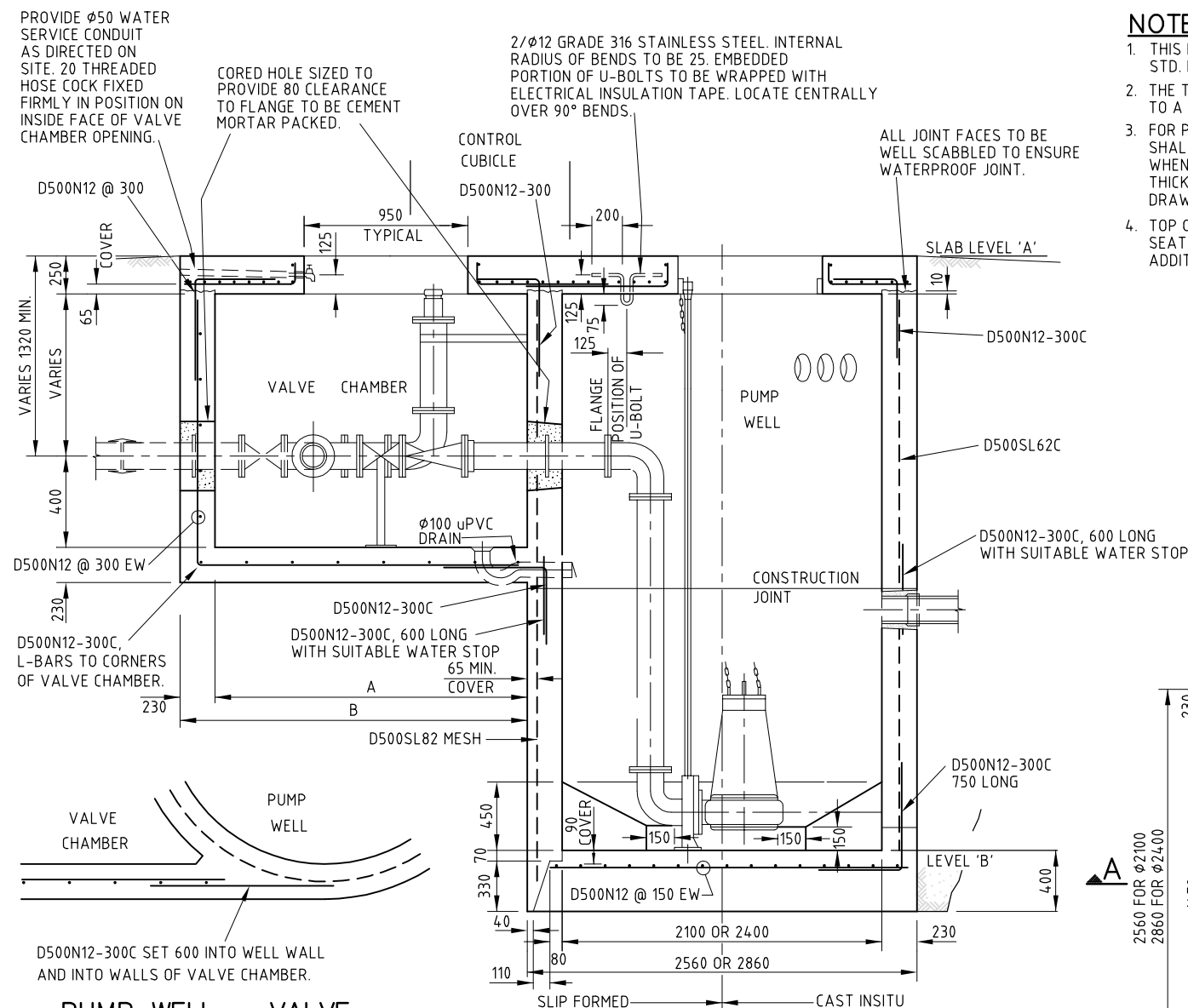


### DETAIL 'G'

DIMENSION	A	B	C	D	E
ø100	1850	2080	600	775	600
ø150	2050	2280	650	888	650
ø225	REFER APPROVED DRAWINGS				

1. THIS DRAWING SHOULD BE READ IN CONJUNCTION WITH R.C.C. STD. DWG. NOS. 59716, 59719, 59720 AND 59721.
2. PUMP BASEPLATES AND SLIDE SUPPORTS SHALL BE FIXED TO FLOOR AND TOP OF SLAB WITH STAINLESS STEEL DROP FLUSH ANCHOR MASONRY FASTENERS IN ACCORDANCE WITH THE MANUFACTURERS RECOMMENDATION.
3. uPVC DROP PIPE TO TERMINATE 200 ABOVE PUMP STOP LEVEL 'F'. PROVIDE STAINLESS STEEL DROP PIPE BRACKETS AT 500 CENTRES FIXED TO WALL WITH 2 x M10 SS MASONRY FASTENERS. REFER NOTE 6.
4. PIPES SHALL BE TAPPED AND FITTED WITH 12 BRASS NIPPLE, GATE VALVE, TEE AND PRESSURE GAUGE WITH SERIES 1 DN16 PN16 SDR9 PE80B M.D.P.E. POLYPIPE DISCHARGE TO PUMP WELL. REFER NOTE 6.
5. ALL INTERNAL VERTICAL, SOFFIT & COVER OPENING WET WELL SURFACES SHALL BE COATED WITH AN APPROVED PROTECTIVE COATING SYSTEM IN ACCORDANCE WITH THE MANUFACTURERS RECOMMENDATIONS. BENCHING SHALL NOT BE COATED.
6. THE PROTECTIVE COATING SYSTEM SHALL BE SEALED AT BENCHING EDGES, ALL ENTRIES THROUGH THE CONCRETE STRUCTURE AND AT ALL FITMENT HOLES WITH AN APPROVED SILICON ADHESIVE IN ACCORDANCE WITH THE MANUFACTURERS RECOMMENDATIONS.
7. DIMENSIONS ARE IN MILLIMETRES UNLESS SHOWN OTHERWISE.





## PUMP WELL - VALVE CHAMBER JUNCTION

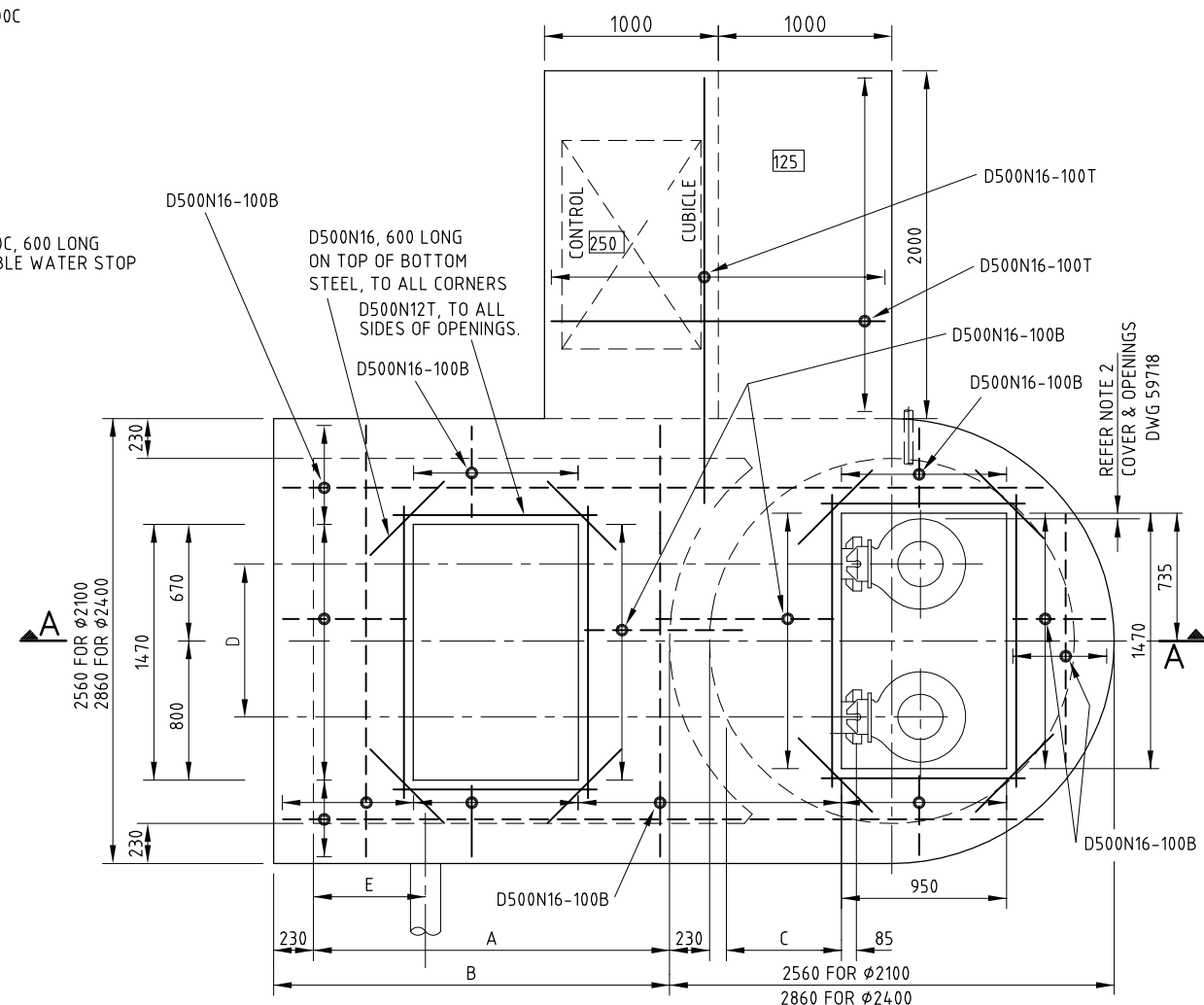
## SECTION A-A

### CONCRETE NOTES

- ALL CONCRETE SHALL:
  - BE GRADE S40
  - COMPLY WITH THE REQUIREMENTS OF COUNCILS STANDARD SPECIFICATION SS1.
- CORED HOLES LEFT IN THE WALL FOR PIPEWORK SHALL BE TAPERED BEING 25 LARGER IN DIAMETER THAN THE FLANGE AT THE INSIDE FACE AND 50 LARGER AT THE OUTSIDE FACE. PACK HOLES WITH 3:1 CEMENT MORTAR UNLESS OTHERWISE DIRECTED.
- ALL REINFORCING TO AS/NZS 4671:2001.
- LAPS IN REINFORCING SHALL BE 600 MINIMUM FOR BARS AND ONE (1) MESH SPACING FOR FABRIC.
- CONCRETE COVER TO REINFORCEMENT SHALL BE A MINIMUM OF 65 UNLESS OTHERWISE DIRECTED.

### NOTES:

- THIS DRAWING SHOULD BE READ IN CONJUNCTION WITH R.C.C. STD. DWG. NOS. 59716, 59719, 59720 AND 59721.
- THE THICKNESS OF THE BASE SHOWN IS FOR PUMP STATIONS TO A 4m MAXIMUM DEPTH.
- FOR PUMP STATIONS DEEPER THAN 4m THE BASE THICKNESS SHALL BE INCREASED TO COVER FLOTATION OF THE STRUCTURE WHEN EMPTY OF PUMPS, FITTINGS, PIPEWORK AND LIQUID. THE THICKNESS SHALL BE AS DETAILED ON THE APPROVED DRAWINGS.
- TOP OF WALLS TO BE WELL SCABBLED AND TOP SLAB TO BE SEATED ON MORTAR CONTAINING APPROVED WATERPROOF ADDITIVES.
- ALL INTERNAL VERTICAL, SOFFIT & COVER OPENING WET WELL SURFACES SHALL BE COATED WITH AN APPROVED PROTECTIVE COATING SYSTEM IN ACCORDANCE WITH THE MANUFACTURERS RECOMMENDATIONS. BENCHING SHALL NOT BE COATED.
- THE PROTECTIVE COATING SYSTEM SHALL BE SEALED AT BENCHING EDGES, ALL ENTRIES THROUGH THE CONCRETE STRUCTURE AND AT ALL FITMENT HOLES WITH AN APPROVED SILICON ADHESIVE IN ACCORDANCE WITH THE MANUFACTURERS RECOMMENDATIONS.
- CONDUITS ARE TO BE LOCATED IN AND UNDER THE ROOF SLAB REFER DWG 59719 FOR DETAILS.
- DIMENSIONS ARE IN MILLIMETRES UNLESS SHOWN OTHERWISE.



## PLAN - ROOF SLAB

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A		DATE		ORIGINAL ISSUE												S-0018		A	
Rv																			



NOTES:

## GENERAL

1. THIS DRAWING SHOULD BE READ IN CONJUNCTION WITH R.C.C. STD. DWG. No's. 59716, 59717, 59720 AND 59721 AND R.C.C. STANDARD SPECIFICATIONS SS12 AND SS14.
2. THE LOCATION OF THE PUMP STATION SHALL BE AS DETAILED IN THE APPROVED DRAWINGS.
3. DIMENSIONS ARE IN MILLIMETRES UNLESS SHOWN OTHERWISE.
4. FOR RPZ DEVICE CONDUITS REFER TO R.C.C. STD. DWG. NO. 59716.
5. ALL PUMP STATIONS SHALL BE FITTED WITH AN APPROVED WELL WASHER SYSTEM INSTALLED IN ACCORDANCE WITH THE DRAWINGS.

## SIZE

1. THE PUMP STATION HAS BEEN DESIGNED FOR USE WITH PUMPS OF  $\phi 100$  AND  $\phi 150$  DISCHARGE SIZES AND THE VALVE CHAMBER DIMENSIONED ACCORDINGLY.

## LEVELS

1. UNLESS OTHERWISE APPROVED BY COUNCIL THE FINISHED LEVEL OF THE ACCESS COVERS AND CONTROL CUBICLE SHALL BE 100 ABOVE THE HIGHEST RECORDED FLOOD LEVEL. WHERE THE PUMP STATION IS SITUATED IN A FLOOD PRONE LOCATION THE LEVEL CRITERIA IS TO BE MET AND THE 1 IN 6 GRADE EXTENDED TO NATURAL.

## COVERS & OPENINGS

1. PUMP STATION OPENINGS SHALL GENERALLY BE 1470 x 950 FITTED WITH LIGHT DUTY ACCESS COVERS AS PER R.C.C. STD. DWG. No. 59722 (UNLESS DIRECTED OTHERWISE BY THE SUPERINTENDENT).
2. WHERE THE VOLUTE DIMENSIONS OF THE PUMP DOES NOT ALLOW 25 CLEARANCE OF THE OPENING OR SAFETY NET HOOKS WHEN IN THE FIXED POSITION THE DIMENSIONS OF THE PUMP STATION OPENING AND LIDS SHALL BE DETAILED IN THE APPROVED DRAWINGS.
3. VALVE SPINDLES SHALL BE DIRECTLY ACCESSIBLE THROUGH ACCESS PORTS EITHER WITHIN THE VALVE CHAMBER COVER OR TOP SLAB OPENING. A VALVE BOX AND COVER AS PER R.C.C. STD DWG No 59611 SHALL BE CAST INTO THE TOP SLAB DIRECTLY OVER THE VALVE SPINDLE. THE ACCESS PORTS LOCATED IN THE COVER SHALL BE SELF RETAINING WHEN THE COVER IS OPEN.

## ELECTRICAL CONDUITS

1. CONDUITS TO BE MINIMUM 63mm NOMINAL DIAMETER FOR EACH PUMP AND MINIMUM 50mm NOMINAL DIAMETER FOR CONTROL CABLES OR TWICE THE OUTSIDE DIAMETER OF THE INSTALLED CABLE WHICHEVER IS THE GREATER.
2. PUMP CONDUITS AND CONTROL CONDUIT SHALL BE SEPERATED BY A MINIMUM 300mm. PUMP CONDUITS SHALL BE SEPERATED BY 30mm.
3. CONDUITS SHALL BE INSTALLED IN ACCORDANCE WITH AS.3000.
4. CONDUITS SHALL BE IN ACCORDANCE WITH AS.2053

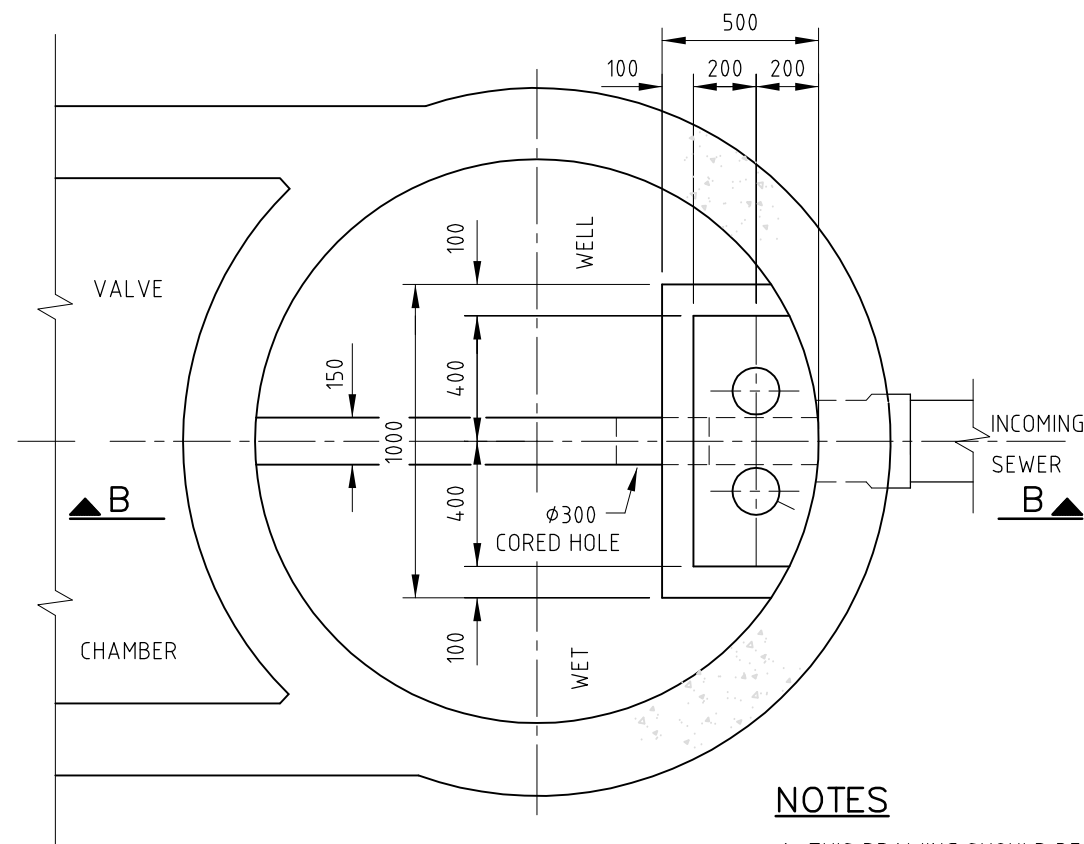
## PIPEWORK

1. ALL UNPROTECTED PIPEWORK AND FITTINGS IN THE PUMPWELL SHALL BE COATED, REFER G.C.C.C. STANDARD SPECIFICATION SS1 FOR DETAILS
2. ALL BOLTS SHALL BE STAINLESS STEEL TO AS2837 GRADE 316.

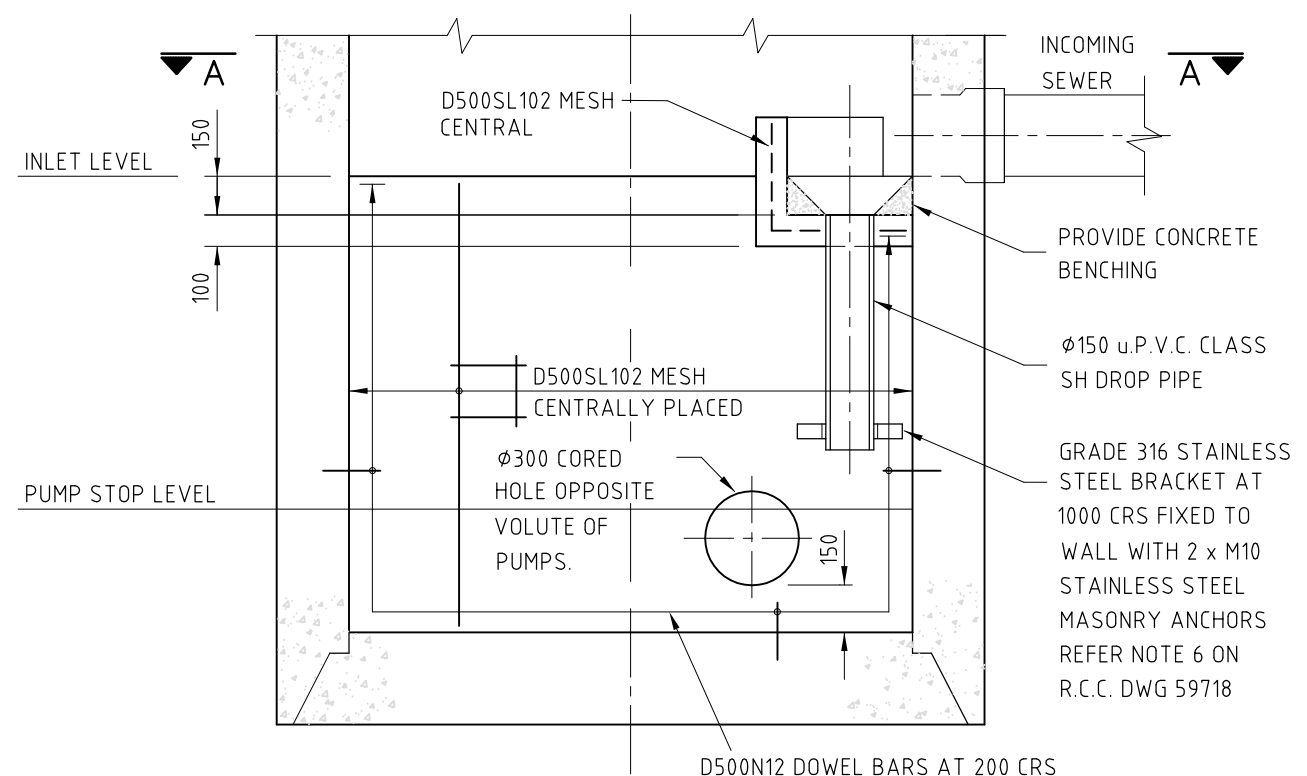
## COMPONENTS

1. ALL PIPES, FITTINGS ASSOCIATED COMPONENTS AND PROTECTION SHALL COMPLY WITH COUNCILS STANDARD SPECIFICATION SS1.

[illegible]



**SECTION A-A**

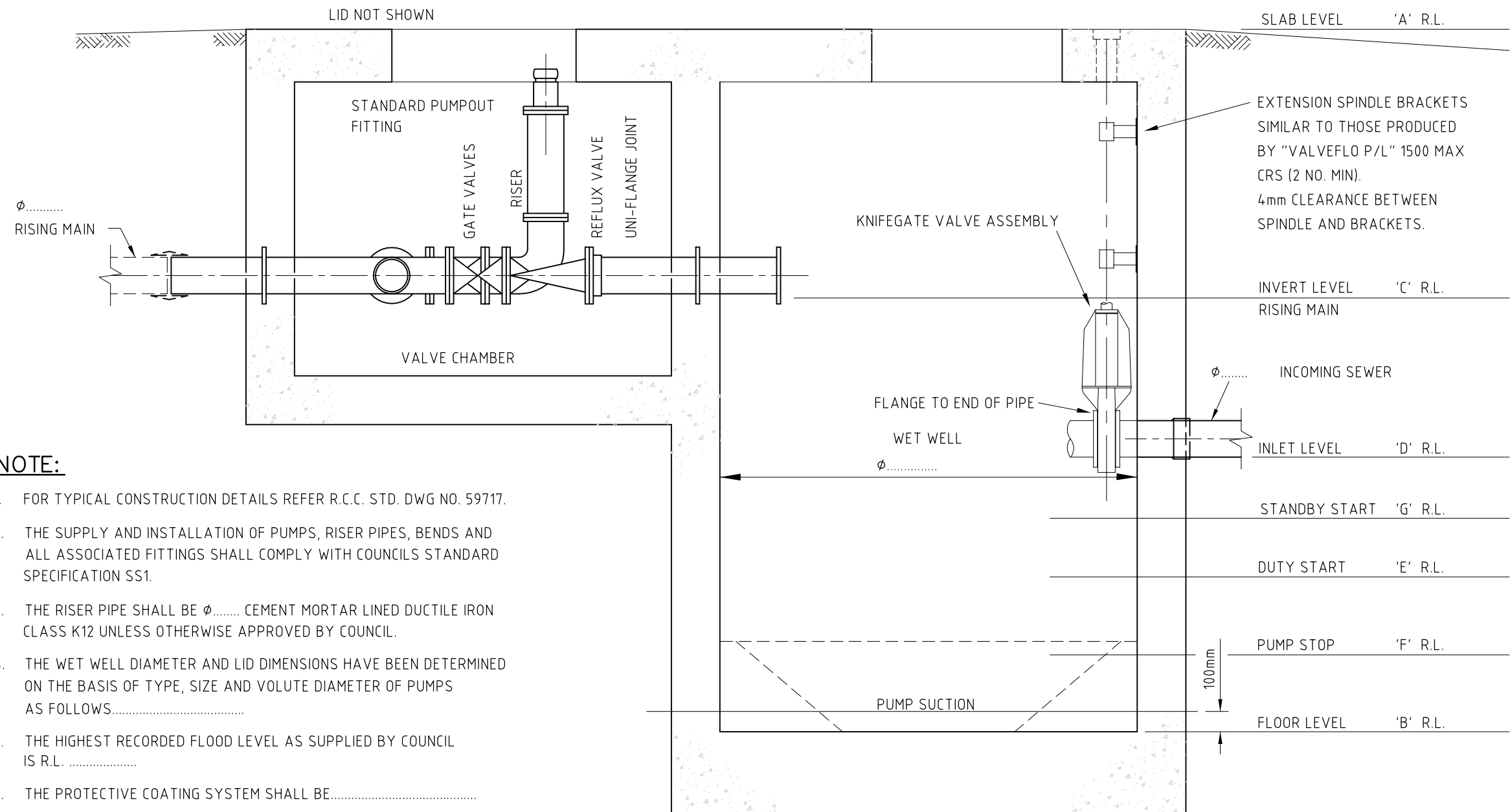


**SECTION B-B**

**NOTES**

1. THIS DRAWING SHOULD BE READ IN CONJUNCTION WITH THE TYPICAL CONSTRUCTION DETAILS ON R.C.C. STD. DWG. NO. 59717.
2. D500N12 DOWEL BARS SHALL BE SET 100 INTO WALL AND FLOOR OF PUMP WELL TO PROVIDE FOR CONSTRUCTION OF DIVIDING WALL AND INLET STRUCTURE.
3. WELL FLOOR AND WALLS SHALL BE WELL SCABBLED TO PROVIDE SATISFACTORY JOINTING.
4. DIVIDING WALL & INLET STRUCTURES SHALL BE COATED WITH AN APPROVED PROTECTIVE COATING SYSTEM IN ACCORDANCE WITH THE MANUFACTURERS RECOMMENDATIONS.
4. ONE ONLY INCOMING SEWER IS ALLOWED TO ANY PUMP WELL.
5. DIMENSIONS ARE IN MILLIMETRES UNLESS SHOWN OTHERWISE.

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<p>DESIGNED:</p>				<p>CHECKED:</p>		<p>IRENE STREET REDCLIFFE</p>		<p>DIVIDING WALL AND INLET STRUCTURE FOR STANDARD</p>		<p>DRAWING No:</p>		<p>A</p>	
<p>RECOMMENDED:</p>				<p>APPROVED:</p>		<p>SEWERAGE PUMP WELLS 2110 dia &amp; 2400 dia</p>		<p>S-0020</p>		<p>A</p>		<p>A</p>	
<p>ORIGINAL ISSUE</p>				<p>REVISIONS</p>		<p>DATE</p>		<p>REC. APPR.</p>		<p>DATE</p>		<p>DATE</p>	



**NOTE:**

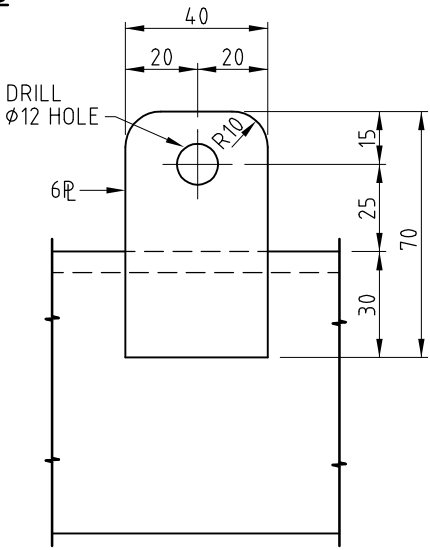
1. FOR TYPICAL CONSTRUCTION DETAILS REFER R.C.C. STD. DWG NO. 59717.
2. THE SUPPLY AND INSTALLATION OF PUMPS, RISER PIPES, BENDS AND ALL ASSOCIATED FITTINGS SHALL COMPLY WITH COUNCILS STANDARD SPECIFICATION SS1.
3. THE RISER PIPE SHALL BE φ..... CEMENT MORTAR LINED DUCTILE IRON CLASS K12 UNLESS OTHERWISE APPROVED BY COUNCIL.
4. THE WET WELL DIAMETER AND LID DIMENSIONS HAVE BEEN DETERMINED ON THE BASIS OF TYPE, SIZE AND VOLUTE DIAMETER OF PUMPS AS FOLLOWS.....
5. THE HIGHEST RECORDED FLOOD LEVEL AS SUPPLIED BY COUNCIL IS R.L. ....
6. THE PROTECTIVE COATING SYSTEM SHALL BE.....
7. THE LEVEL AT WHICH THE CONTRIBUTING SEWERAGE SYSTEM OR THIS SEWERAGE PUMPING STATION WILL OVERFLOW IS .....

THIS DRAWING IS TO BE COMPLETED BY THE CONSULTANT AND SHALL FORM PART OF THE ENGINEERING DRAWINGS SUBMITTED TO COUNCIL FOR APPROVAL.

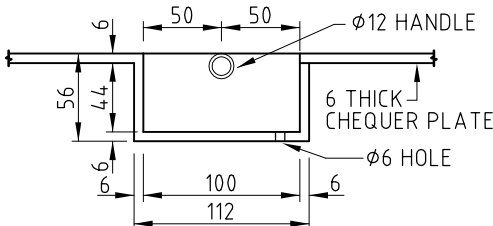
				REDCLIFFE CITY COUNCIL		SURVEY:		A3		DATUM: A.H.D.		<div>IRENE STREET REDCLIFFE PO BOX 66, REDCLIFFE QLD 4020 PHONE: (07) 3283 0233 FAX: (07) 3883 1723 WEB SITE: <a href="http://www.redcliffe.qld.gov.au">www.redcliffe.qld.gov.au</a></div> <div><div>CITY COUNCIL</div></div>				RCC STANDARD DRAWINGS – SEWERAGE			
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A		ORIGINAL ISSUE																	
Rv.		DATE		REVISIONS		REC.		APPR.											

TABLE OF DIMENSIONS

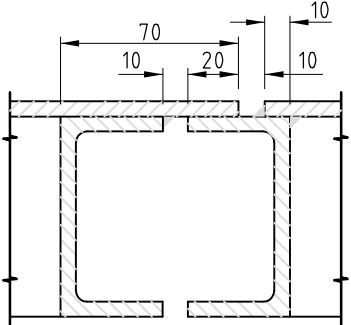
DIMENSION	LIFT STATION		PUMP STATION
	PUMP WELL	DISCHARGE CHAMBER	
A	1260	1000	1470
B	1240	980	1450
C	600	470	705
D	520	390	625
E	580	450	685
F	240	175	293
G	270	205	323
H	950	800	950
J	930	780	930
K	880	730	880
L	440	365	440



PADLOCK TONGUE DETAIL

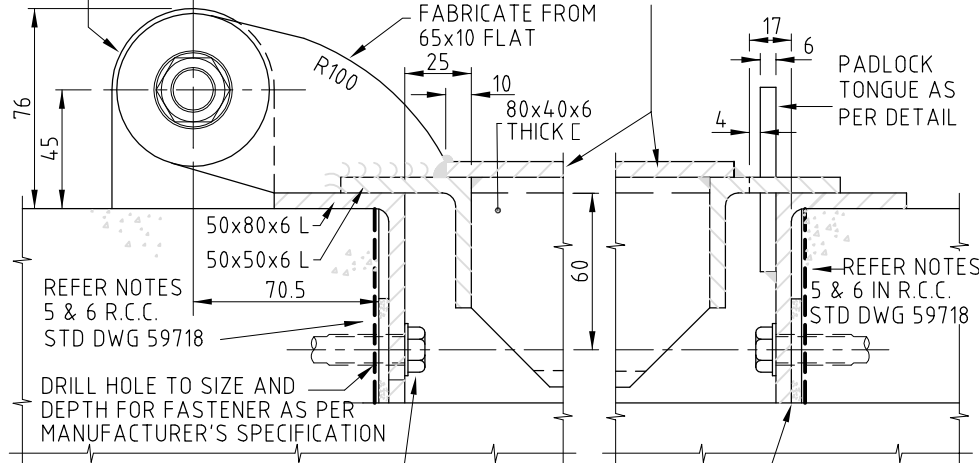


SECTION D-D  
HANDLE DETAIL

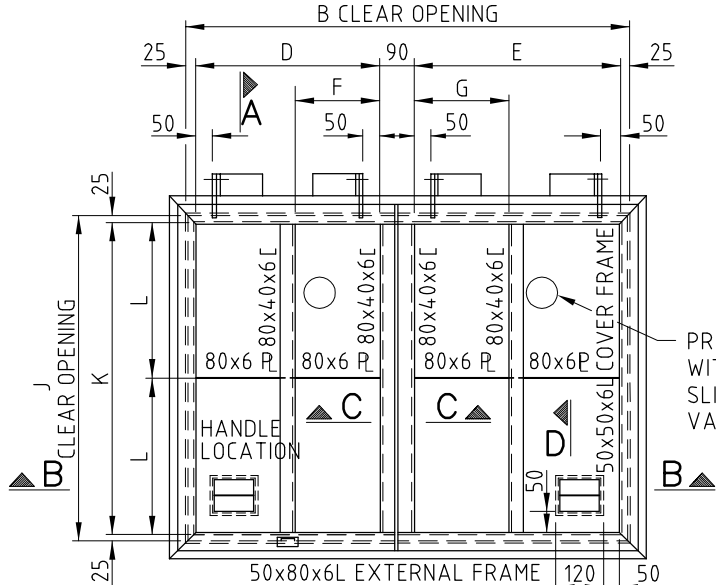


SECTION C-C

127x76x10 L x 65 LONG  
WELD FIXED TO EXTERNAL  
FRAME. ROUND L AS SHOWN

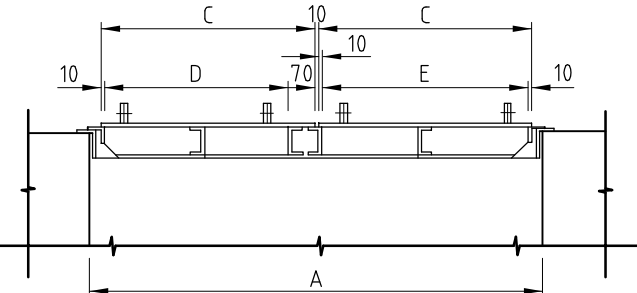


SECTIONAL ELEVATION

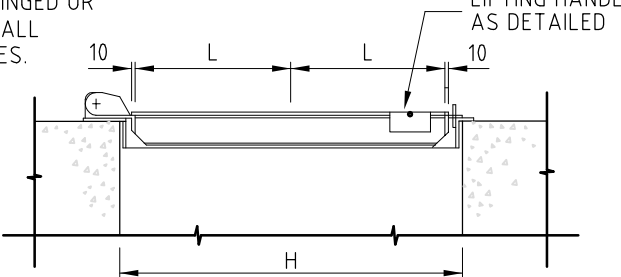


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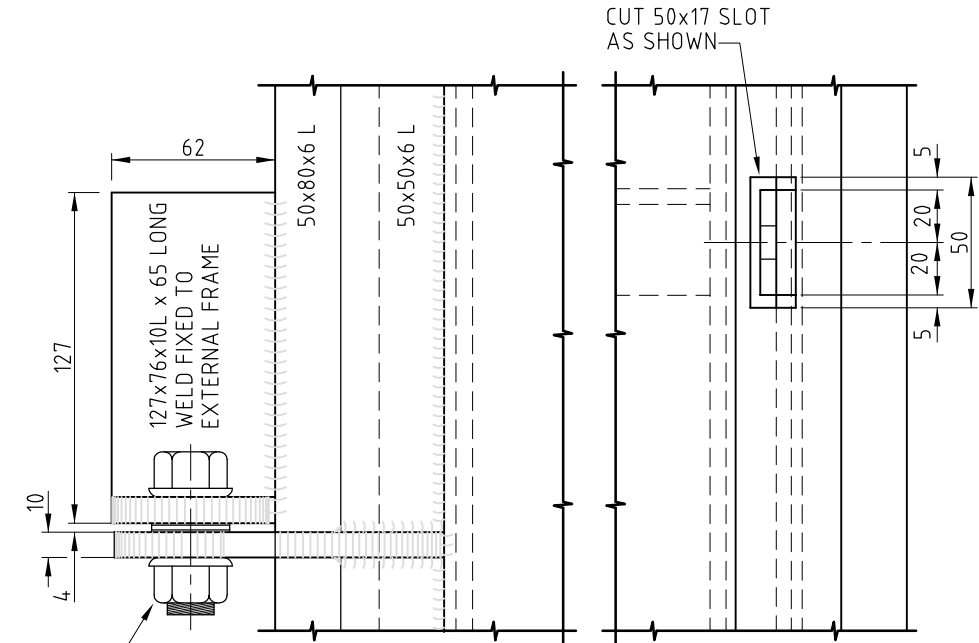
1. ALL COMPONENTS SHALL BE ALUMINIUM ALLOY 6061-T6 UNLESS SHOWN OTHERWISE.
2. ALL CONNECTIONS SHALL BE WELDED WITH 6 CONTINUOUS FILLET OR FULL STRENGTH BUTT WELDS UNLESS SHOWN OTHERWISE.
3. ALL ALLOY FACES IN CONTACT WITH CONCRETE SHALL BE BITUMEN PAINTED.
4. 6 THICK CHEQUER PLATE OMITTED FOR CLARITY. WELD TO COVER FRAME WITH 3 CONTINUOUS FILLET ROUND TOP AND UNDERSIDE.
5. DIMENSIONS ARE IN MILLIMETRES UNLESS SHOWN OTHERWISE.



SECTION B-B

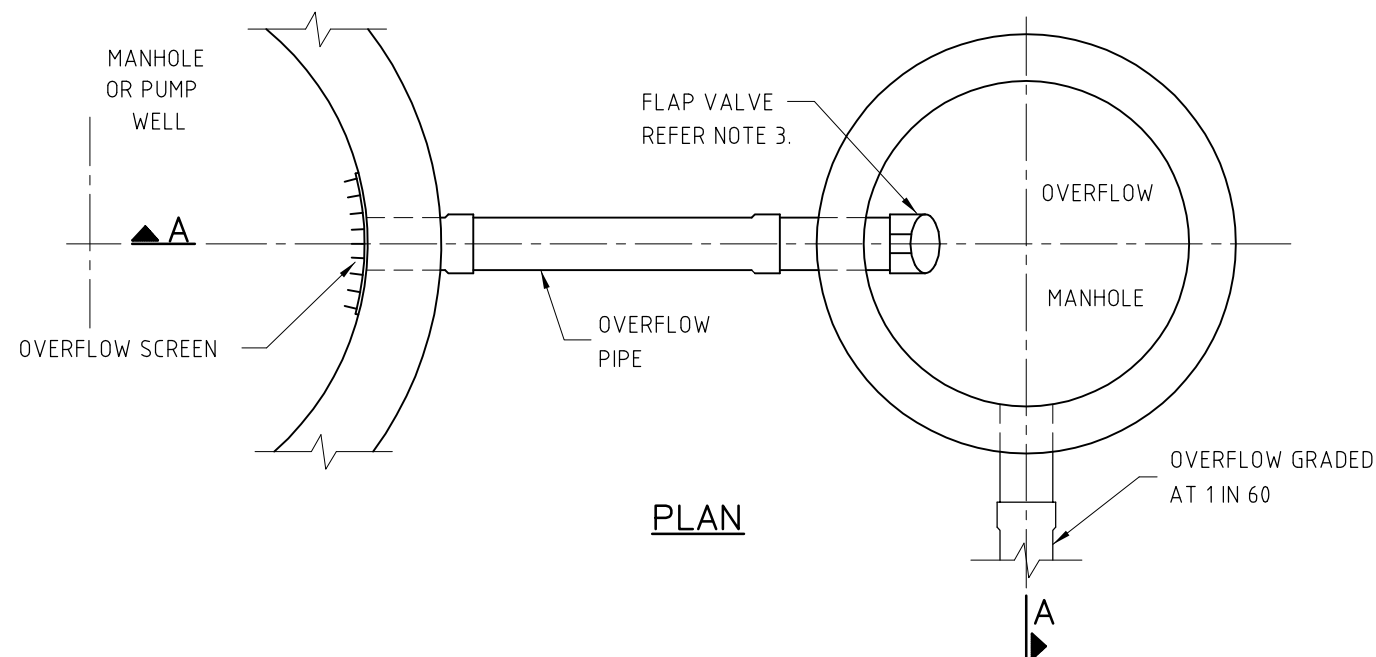


SECTION A-A

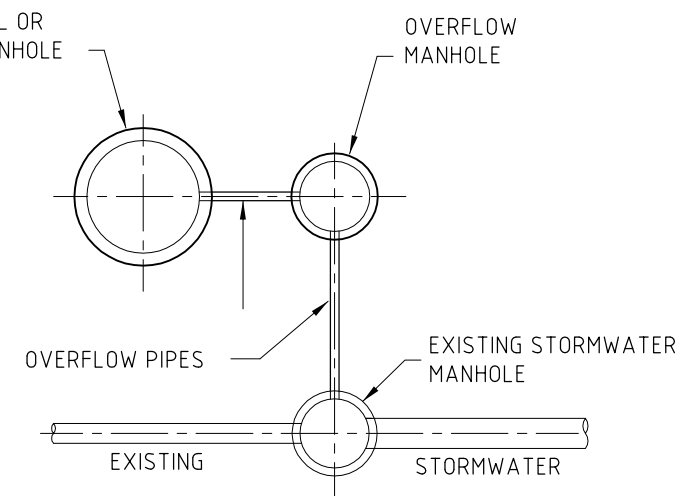


PLAN  
COVER DETAIL





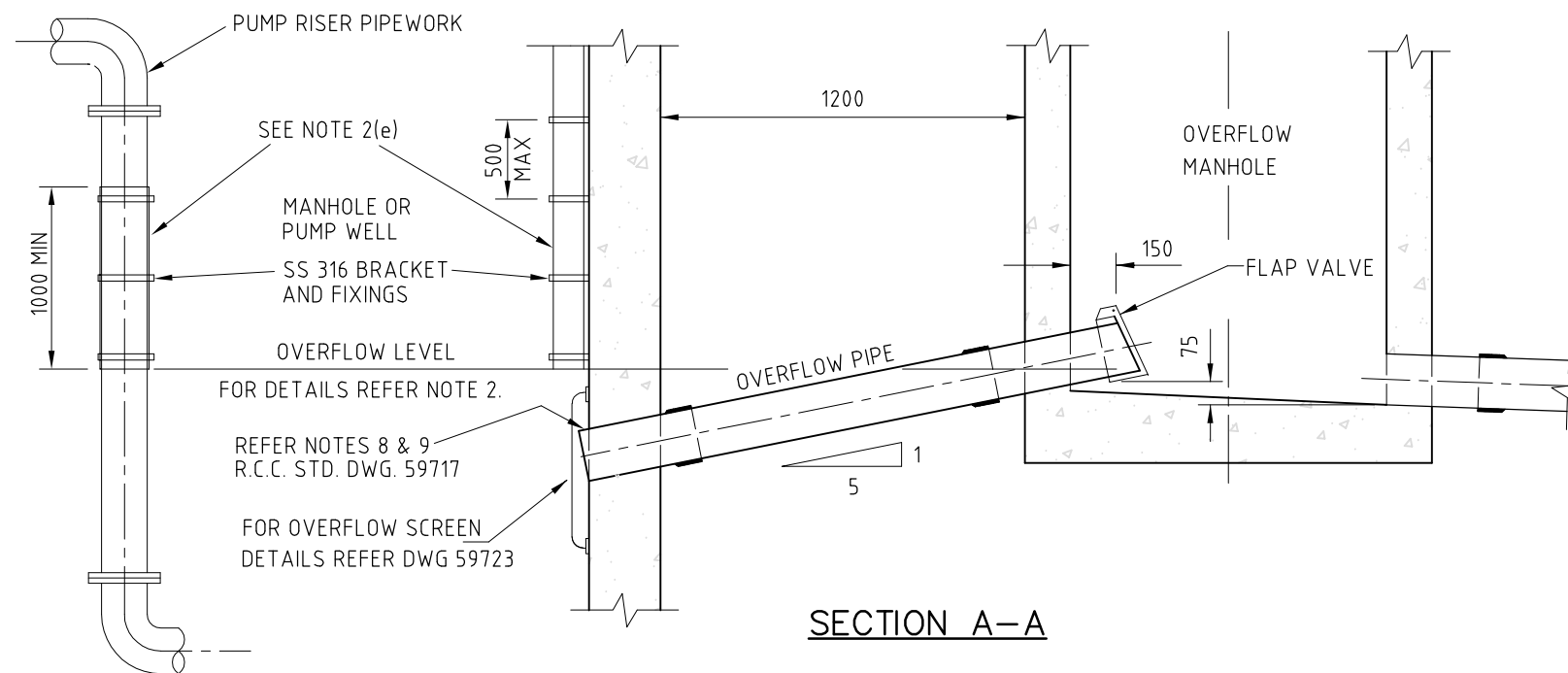
**PLAN**



**LAYOUT ARRANGEMENT**

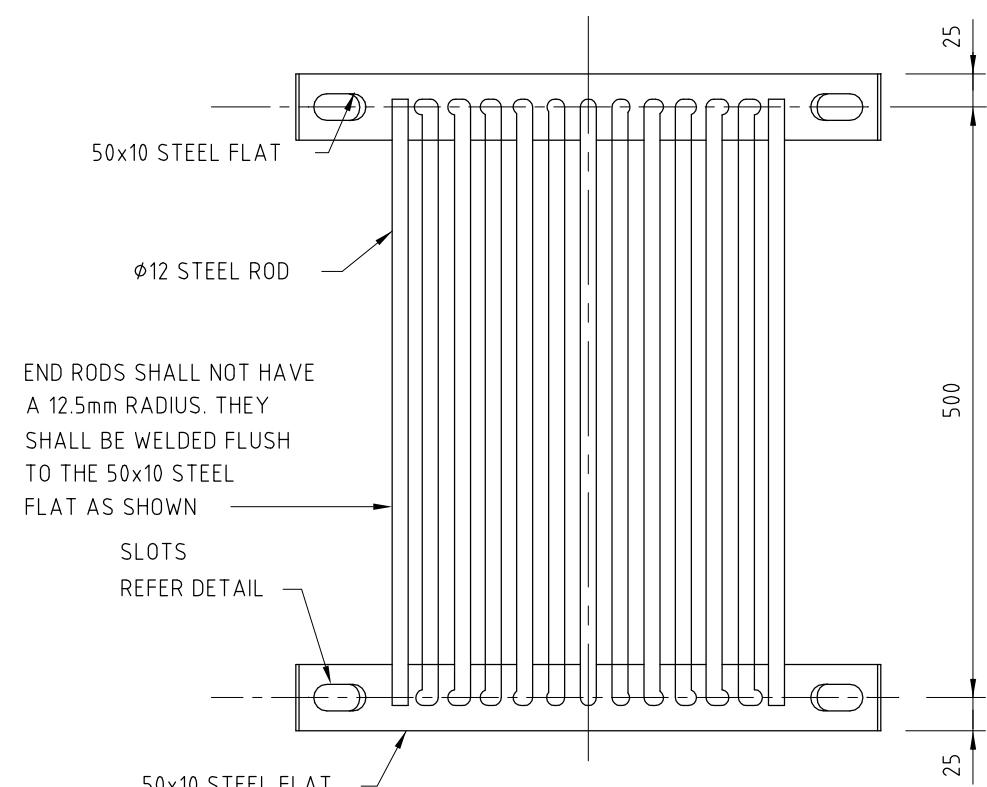
**NOTES:**

- FOR OVERFLOW SCREEN DETAILS REFER R.C.C. STD. DWG. NO. 59724.
- THE OVERFLOW LEVEL SHALL BE:
  - AT LEAST 300 BELOW UNDERSIDE OF PUMP WELL ROOF SLAB.
  - THE SURFACE LEVEL OF THE LOWEST MANHOLE IN THE SYSTEM.
  - THE LOWEST FLOOR SLAB OR RELIEF GULLY TRAP (WHICHEVER IS THE LOWER).
  - MARKED BY A BRASS PLATE ENGRAVED WITH THE DEPTH TO OVERFLOW AND ATTACHED TO TOPSIDE OF PUMP WELL ROOF SLAB, AND
  - SUBJECT TO THE LEVEL, VISIBLY MARKED BY EITHER A SIMILAR DN ORANGE COLOURED PLASTIC CONDUIT, SPLIT AND ATTACHED TO THE PIPEWORK RISERS BY 316 SS CLAMPS ATTACHED AT 500 CRS OR BY A DN 100 ORANGE COLOURED PLASTIC CONDUIT ATTACHED TO THE WALL OF THE WET WELL, IN A VISIBLE LOCATION, WITH THE BASE OF EITHER CONDUIT AT OVERFLOW LEVEL.
- FLAP VALVE SHALL BE ALUMINIUM ALLOY 6061-T6, FIBREGLASS OR EQUIVALENT.
- DIMENSIONS ARE IN MILLIMETRES UNLESS SHOWN OTHERWISE.

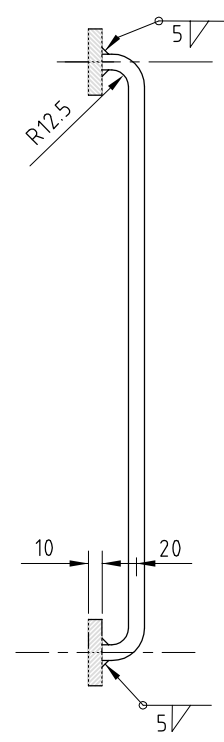


**SECTION A-A**

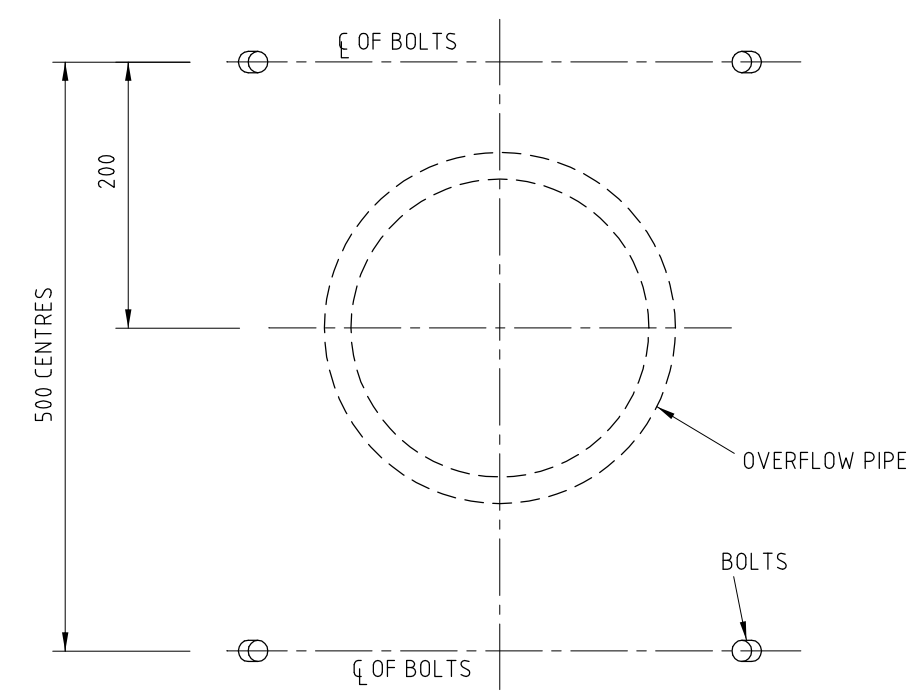
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																DRAWING No: S-0023		A	
A		DATE		ORIGINAL ISSUE		REVISIONS		REC		APPR									



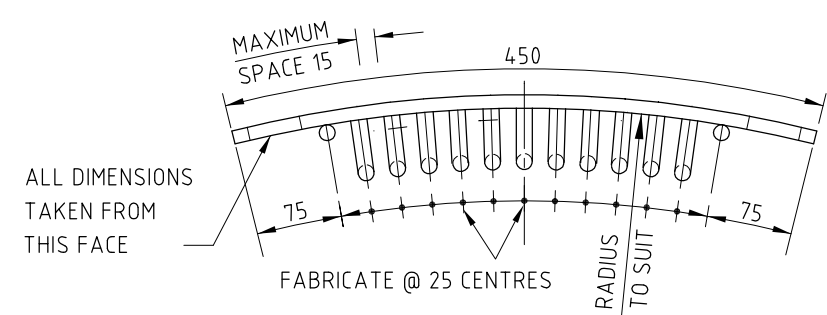
**ELEVATION**



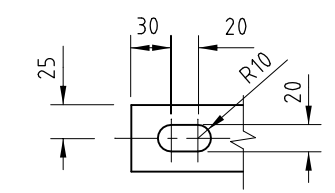
**SECTION**



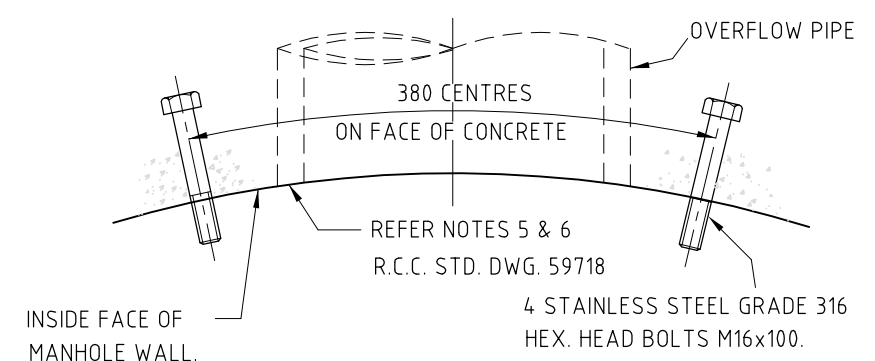
**ELEVATION**



**PLAN  
OVERFLOW SCREEN**



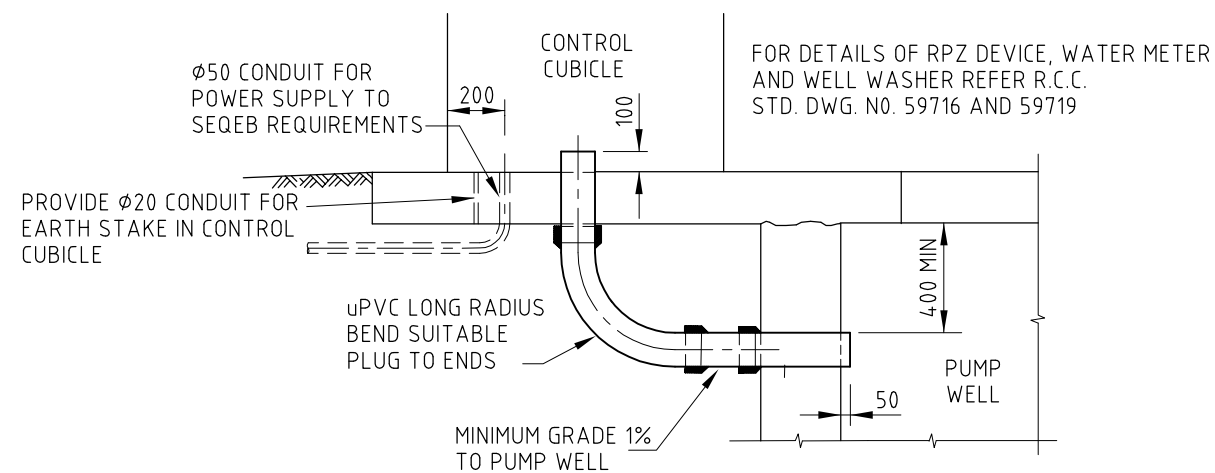
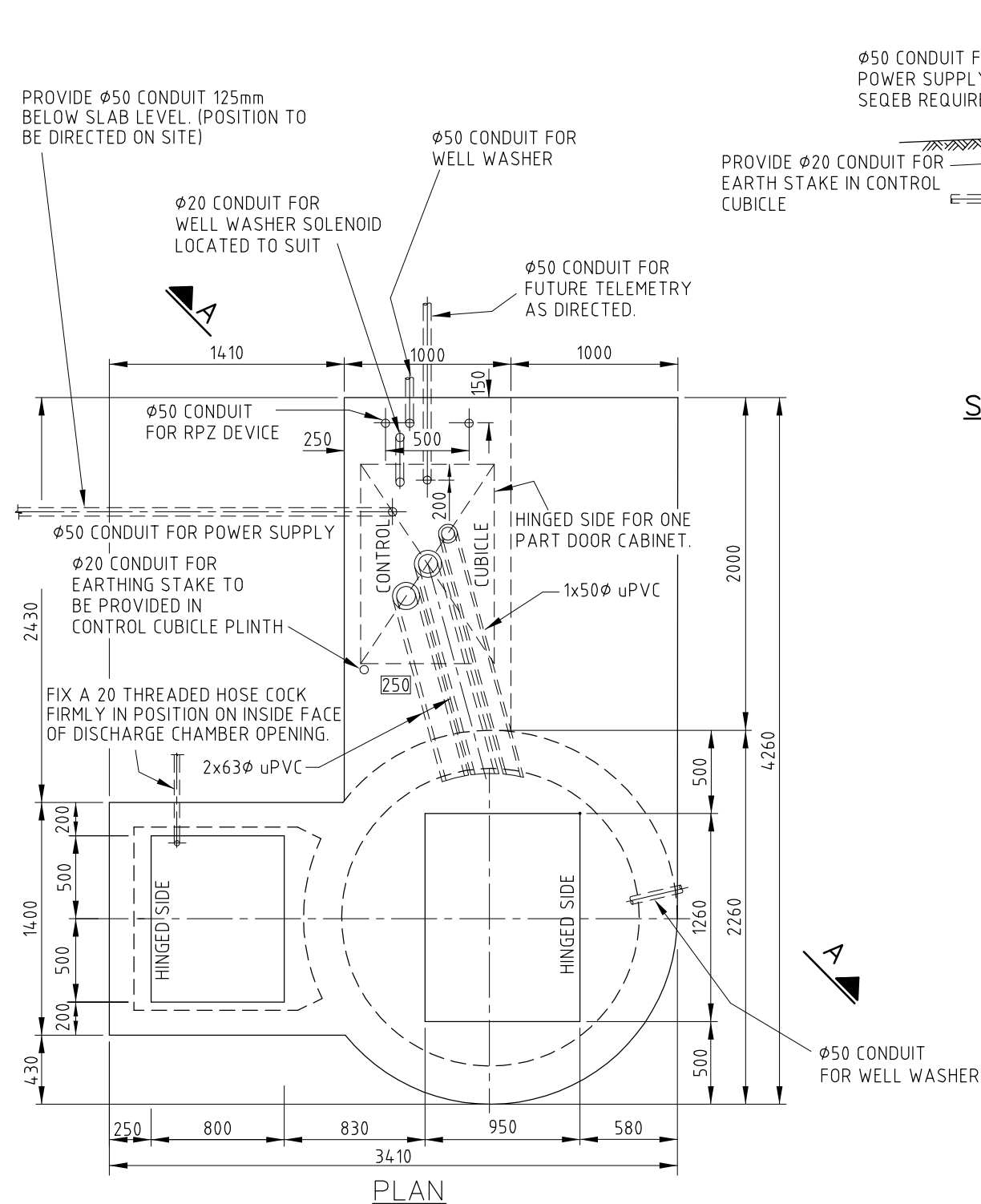
**DETAIL OF SLOTS**



**PLAN  
POSITION OF SET-IN BOLTS**

- NOTES:**
1. OVERFLOW SCREEN SHALL BE HOT DIPPED GALVANISED AFTER FABRICATION.
  2. DIMENSIONS ARE IN MILLIMETRES UNLESS SHOWN OTHERWISE.





## SECTION A-A TYPICAL CONDUIT DETAIL

### NOTES

#### GENERAL

- THIS DRAWING SHOULD BE READ IN CONJUNCTION WITH R.C.C. STD. DWG. NOS. 59716, 59717, 59722, 59725 & 59727. THE LOCATION OF THE LIFT STATION SHALL BE AS SHOWN ON THE APPROVED DRAWINGS.
- DIMENSIONS ARE IN MILLIMETRES UNLESS SHOWN OTHERWISE.

#### ELECTRICAL CONDUITS

- CONDUITS TO BE MINIMUM 63mm NOMINAL DIAMETER FOR EACH PUMP AND MINIMUM 50mm NOMINAL DIAMETER FOR CONTROL CABLES OR TWICE THE OUTSIDE DIAMETER OF THE INSTALLED CABLE WHICHEVER IS THE GREATER.
- PUMP CONDUITS AND CONTROL CONDUIT SHALL BE SEPERATED BY A MINIMUM 300mm. PUMP CONDUITS SHALL BE SEPERATED BY 30mm.
- CONDUITS SHALL BE INSTALLED IN ACCORDANCE WITH AS.3000.
- CONDUITS SHALL BE IN ACCORDANCE WITH AS.2053.

#### COMPONENTS

- ALL PIPES, FITTINGS, ASSOCIATED COMPONENTS AND PROTECTION SYSTEMS SHALL COMPLY WITH COUNCILS STANDARD SPECIFICATION SS1.

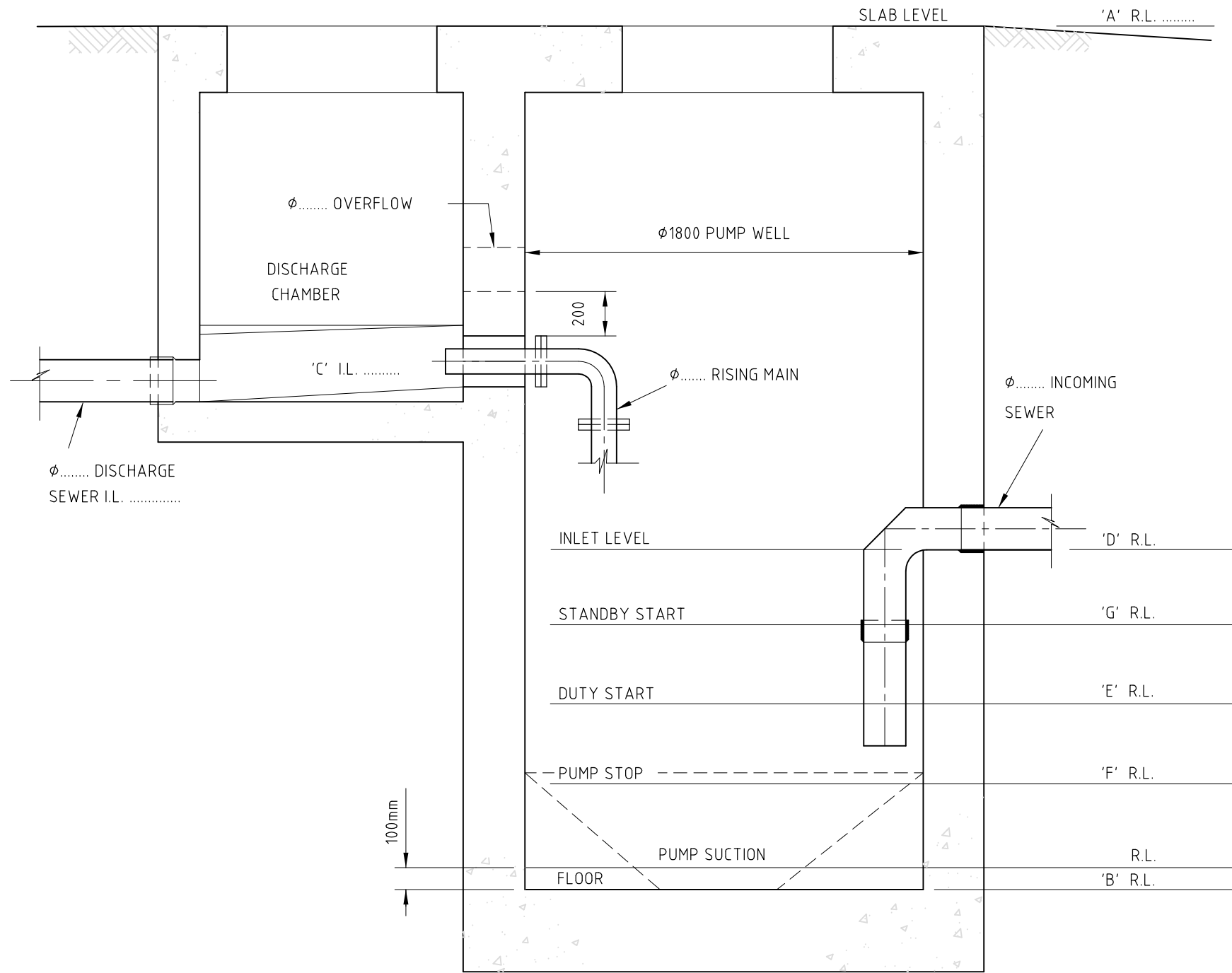
#### LEVELS

- THE FINISHED LEVEL OF THE ACCESS COVERS AND CONTROL CUBICLE SHALL BE 100 ABOVE THE HIGHEST RECORDED FLOOD LEVEL AND A 1 IN 6 GRADE EXTENDED TO NATURAL LEVEL.

#### PIPEWORK

- FOR PIPEWORK DETAILS REFER TO NOTES 1, 2 & 3 ON R.C.C. STD. DWG. NO. 59719.

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<p>A ORIGINAL ISSUE</p>				<p>REVISIONS</p>		<p>REC. APPR.</p>		<p>DATE</p>		<p>REVISIONS</p>		<p>DATE</p>		<p>REVISIONS</p>		<p>DATE</p>		<p>REVISIONS</p>	



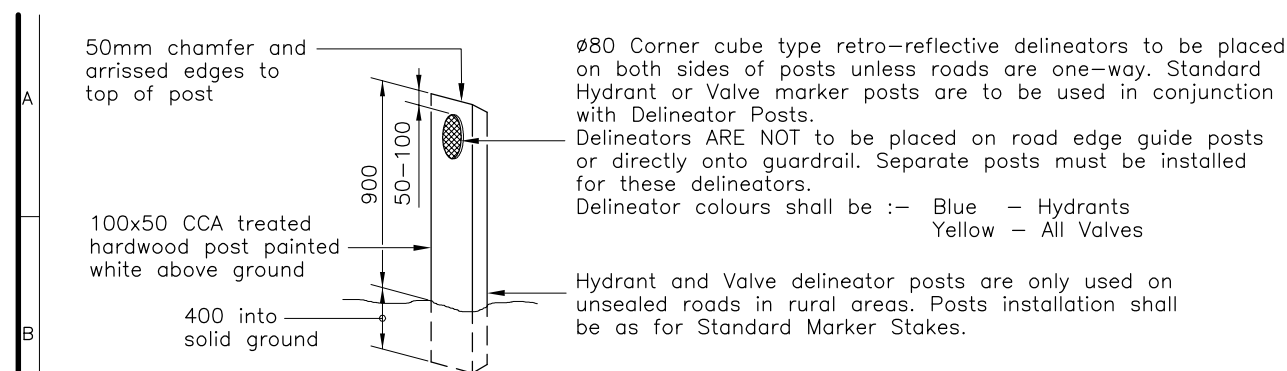
THIS DRAWING IS TO BE COMPLETED BY THE CONSULTANT AND SHALL  
FORM PART OF THE ENGINEERING DRAWINGS SUBMITTED TO COUNCIL FOR APPROVAL

**NOTES**

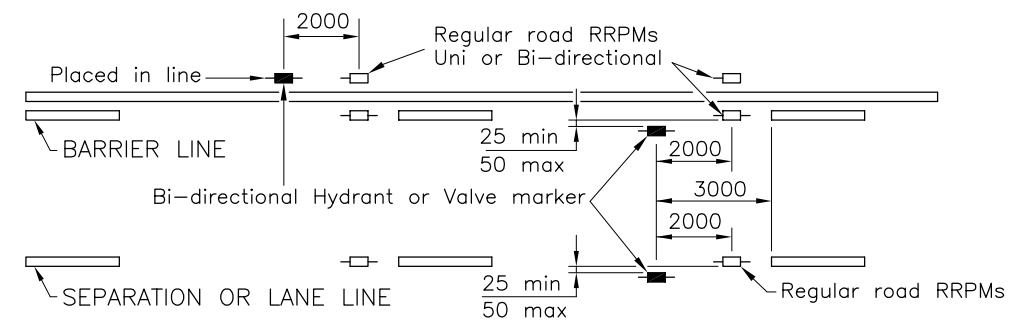
1. FOR CONSTRUCTION DETAILS REFER TO R.C.C. STD. DWG. NOS. 59716, 59722, 59725 & 59726.
2. THE SUPPLY AND INSTALLATION OF PUMPS, RISER PIPES, BENDS AND ALL ASSOCIATED FITTINGS SHALL COMPLY WITH COUNCILS STANDARD SPECIFICATION SS1.
3. THE RISER PIPE SHALL BE Ø..... LIGHT CEMENT LINED DUCTILE IRON CLASS K12 UNLESS OTHERWISE APPROVED BY COUNCIL.
4. THE LIFT STATION DIAMETER AND LID DIMENSIONS HAVE BEEN DETERMINED ON THE BASIS OF USE OF THE FOLLOWING TYPE, SIZE AND VOLUTE DIAMETER OF PUMPS.....
5. THE HIGHEST RECORDED FLOOD LEVEL AS SUPPLIED BY COUNCIL IS R.L. ....
6. THE PROTECTIVE COATING SYSTEM SHALL BE.....

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A		ORIGINAL ISSUE		This document is produced by Redcliffe City Council solely for the benefit of and use by RCC in accordance with the terms of the retailer. Redcliffe City Council does not and shall not assume any responsibility or liability whatsoever to any third party arising out of any use or reliance by third party on the content of this document.																	
Rv		DATE		REVISIONS		REC.		APPR.													

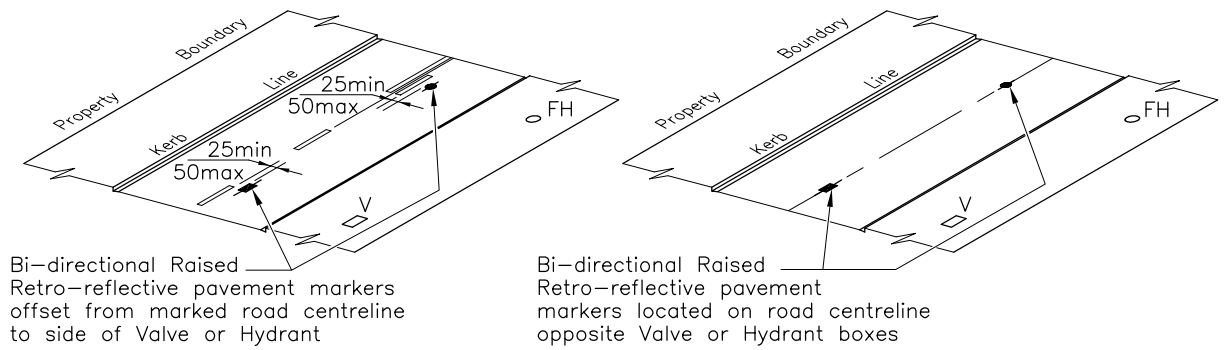




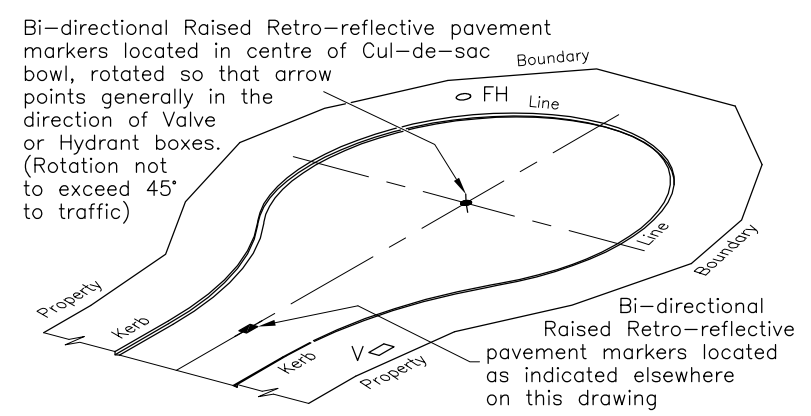
**ROAD EDGE HYDRANT AND VALVE DELINEATOR POST – RURAL ROADS**



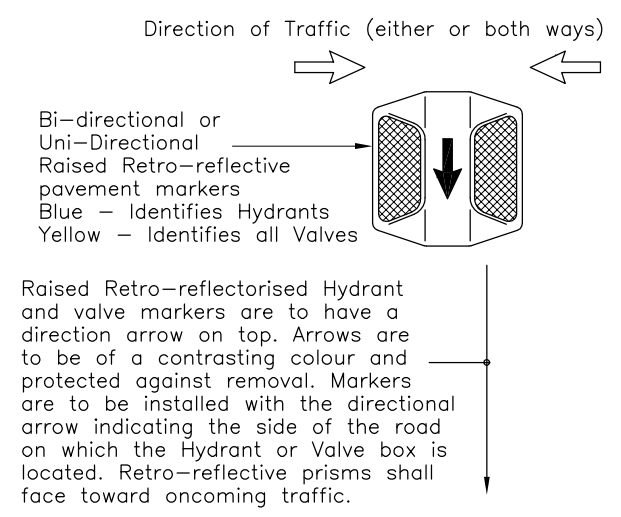
**POSITIONS RELATIVE TO LINEMARKING AND ROADWAY RRPM'S**



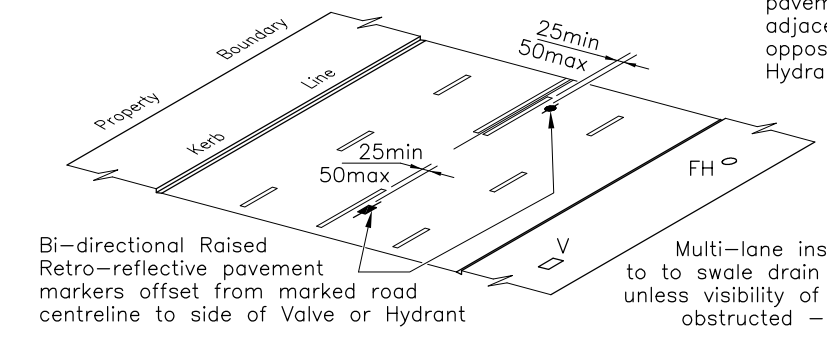
**WITH PAVEMENT MARKINGS**  
**WITHOUT PAVEMENT MARKINGS**  
**URBAN AND RURAL RESIDENTIAL STREETS OR ROADS**



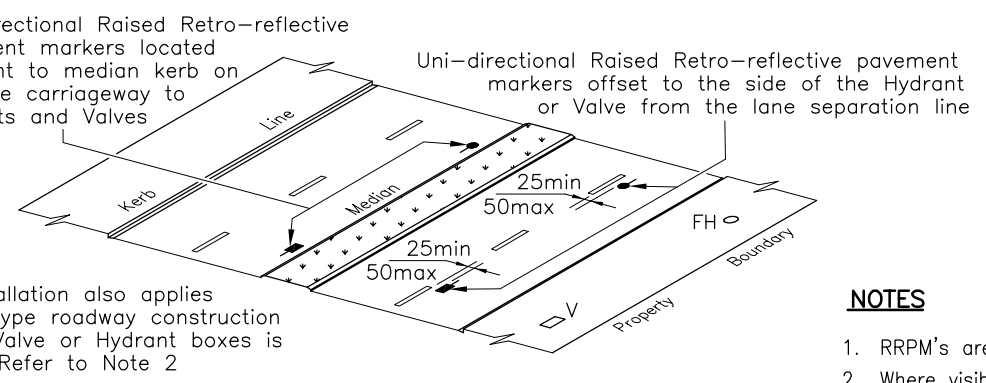
**CUL-DE-SAC HEAD**



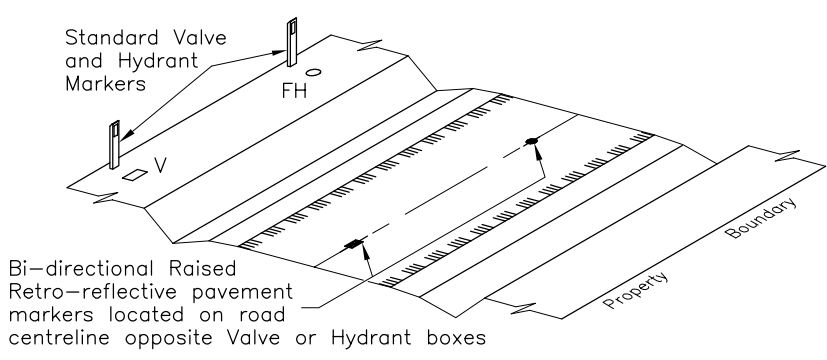
**ORIENTATION OF PAVEMENT MARKERS**



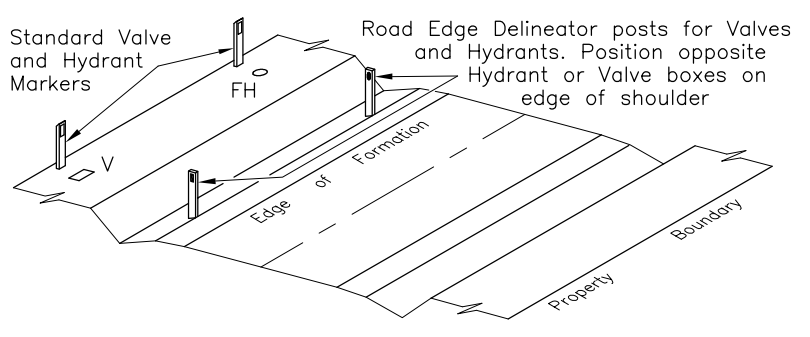
**UN-DIVIDED CARRIAGEWAY**



**MEDIAN DIVIDED DUAL CARRIAGEWAY**



**SEALED ROADS** – If marked, refer to marker offsets as above  
**RURAL STREETS OR ROADS (WITHOUT KERB & CHANNEL)**



**UN-SEALED ROADS**

**NOTES**

- RRPM's are to be used on roadways where water mains are constructed adjacent the roadway.
- Where visibility to the Hydrant or Valve Box from the roadway may be obstructed (e.g. by grass or steep batters) a Hydrant or Valve Marker Post shall also be installed. Valve and Hydrant marker posts shall be installed on all Rural Roads to supplement road edge delineator posts.
- For roads with more than 2 lanes of travel in one direction, a Hydrant or Valve marker post shall be erected in the median. Pavement Markers are not to be installed. Distance marker plates are to be included showing offset to the Hydrant or Valve.
- Where New Jersey barriers are used on roads with more than 2 lanes of travel in one direction, a single sided Hydrant or Valve Delineator is to be mounted on top of the barrier. Pavement markers are not used in this case.
- Where access to a Hydrant or Valve is not available from an opposite carriageway to the fitting, a pavement marker or other marker is not to be placed for that carriageway.
- Retro-reflective raised pavement markers shall comply with the requirements and Specifications of the Queensland Department of Main Roads, and AS 1906.3.
- Raised pavement markers for Hydrants and Valves are to be installed in accordance with the Queensland Department of Main Roads' Fire Hydrant Indication System Technical Guideline, Sections 1 to 4, and Section 6, Figures 1 through 7.
- Raised Reflectorised Pavement Markers are to be fixed to the road surface by a Stimsonite soft, hot melt bitumastic pad, or approved 2-pack epoxy adhesive suitable for the purpose.