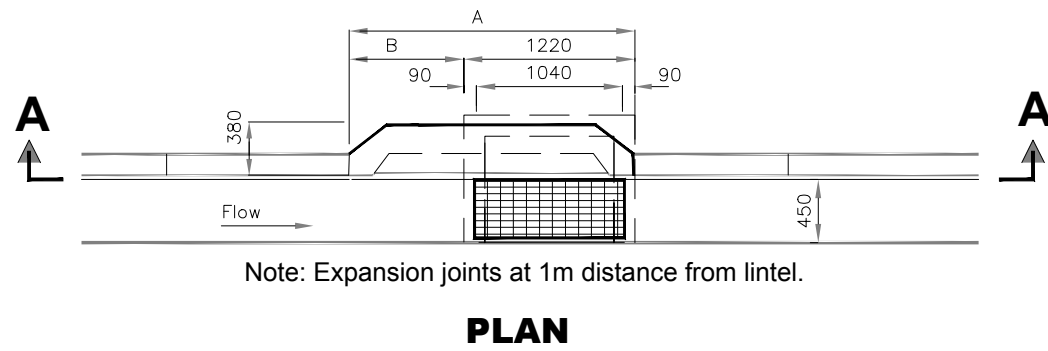


STEP IRONS

Provide AYMROO or alternate brand name equivalent plastic encapsulated step irons in accordance with AS 1657 and manufactures requirements directly under lid at 300mm centres where pit is deeper than 1200mm.

Note: Subsoil Drain 3m long at each inlet pit.

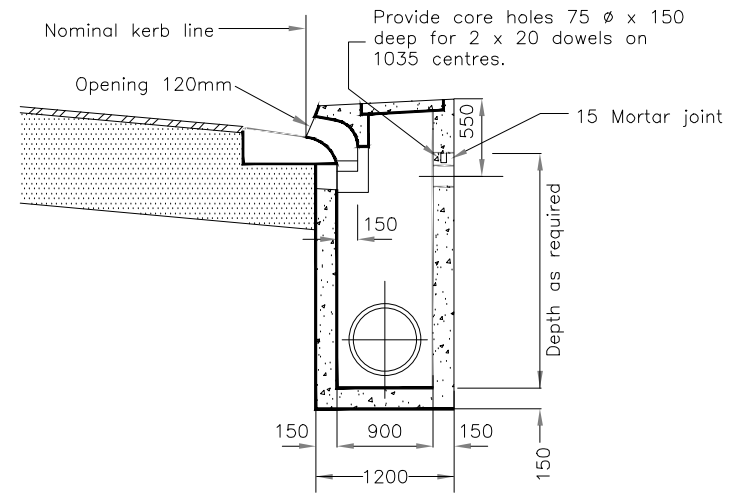
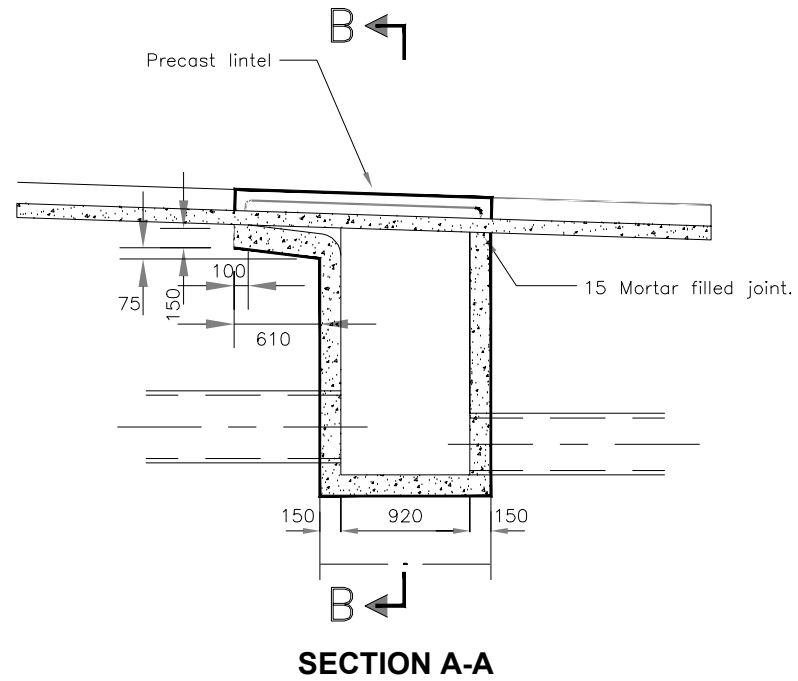


NOTE:

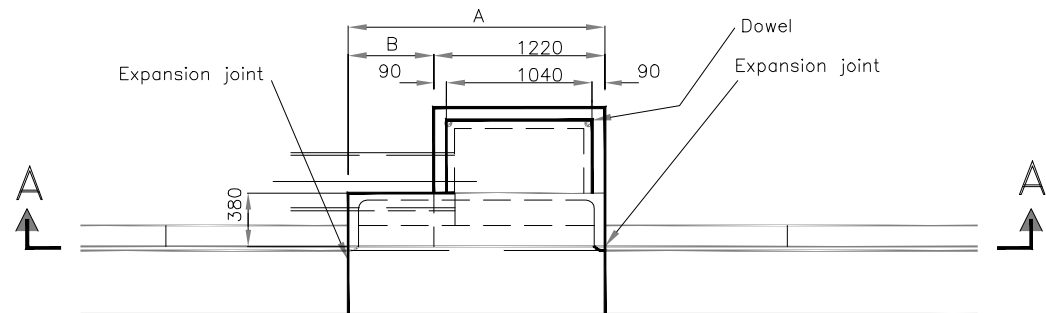
1. Compressive strength, F_c for cast insitu concrete to be min of 32MPa to AS3600
2. All dimensions in mm
3. Provide SL82 mesh centrally placed to walls and base for all pits >= 1.5m deep. Minimum 50mm cover. Return mesh 300mm into base and sides, or starter bars to match wall reinforcement.
4. All exposed steelwork shall be hot dip galvanised in accordance with AS 1650
5. Where a heavy duty steel grate is required a Weldlok GG78-42A grate or equivalent is to be specified.

Nominal Lintel Length	A	B
1200	1825	605
1800	2438	1218
2400	3048	1828
3000	3657	2437
3600	4267	3047

SURVEYED OFFICER: DATE: SURVEY MARKS:	<table border="1" style="width:100%; border-collapse: collapse;"> <thead> <tr> <th>REV.</th> <th>DATE</th> <th>OFFICER</th> </tr> </thead> <tbody> <tr><td> </td><td> </td><td> </td></tr> <tr><td> </td><td> </td><td> </td></tr> <tr><td> </td><td> </td><td> </td></tr> <tr><td> </td><td> </td><td> </td></tr> <tr><td> </td><td> </td><td> </td></tr> <tr><td> </td><td> </td><td> </td></tr> <tr><td> </td><td> </td><td> </td></tr> <tr><td> </td><td> </td><td> </td></tr> <tr><td> </td><td> </td><td> </td></tr> </tbody> </table>	REV.	DATE	OFFICER																												AMENDMENT DETAILS	APPROVED - Manager Subdivision Development DATE: 21 NOVEMBER 2019 DESIGNED: DATE: DRAWN: DATE:	SERVICES SEDIMENT AND EROSION CONTROL Provide sediment and erosion control measures in accordance with the 'Erosion & Sediment Control' guide by the NSW Office of Environment & Heritage	LOCATIONS SERVICES LEGEND Gas: --- G --- Electricity: --- E --- Water: --- W --- Sewer: --- S --- TelComm Local Cable: --- T --- TelComm Major or Optic Fibre: --- MOF ---	 ADMINISTRATION CENTRE SHELLHARBOUR CIVIC CENTRE 76 CYGNET AVENUE (Cnr Cygnet & College Avenue) POSTAL ADDRESS Locked Bag 155 SHELLHARBOUR CITY CENTRE NSW 2529 PH: (02) 4221 6111 FAX: (02) 4221 6016 DX26402 SHELLHARBOUR CITY CENTRE	PLAN DETAILS SCC STANDARD DRAWING CAST IN-SITU GRATED GULLY PIT - Pipes up to 600Ø	FILE: PLAN No: ASD 300	REVISION A SHEET:
REV.	DATE	OFFICER																																					



Note: Subsoil Drain 3m long at each inlet pit.



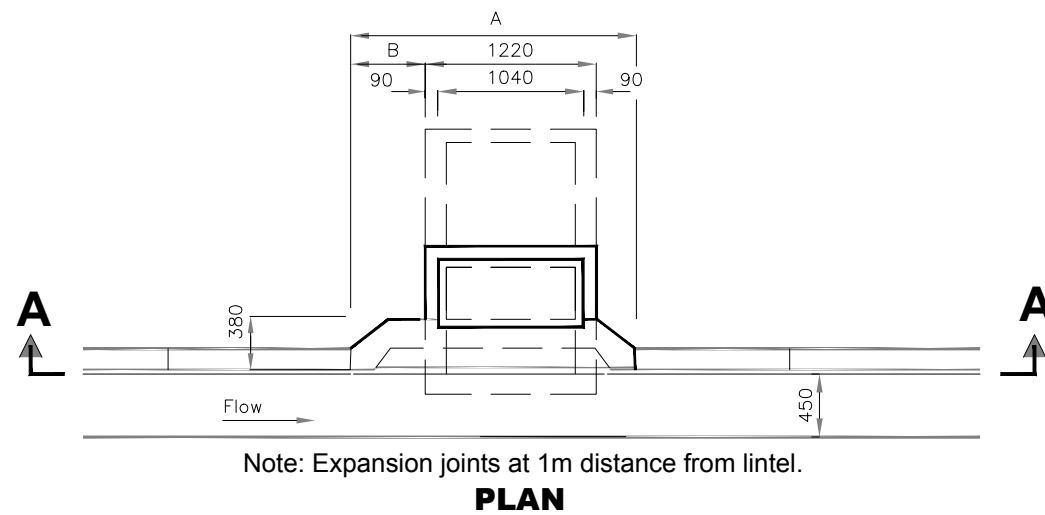
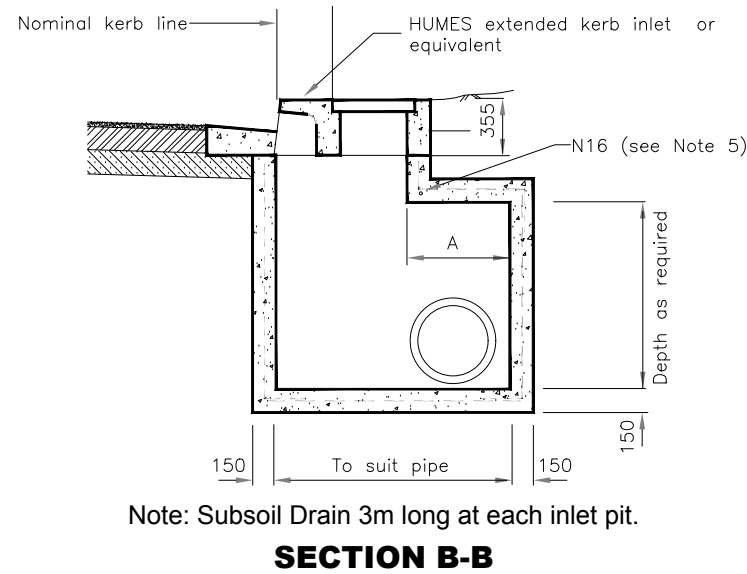
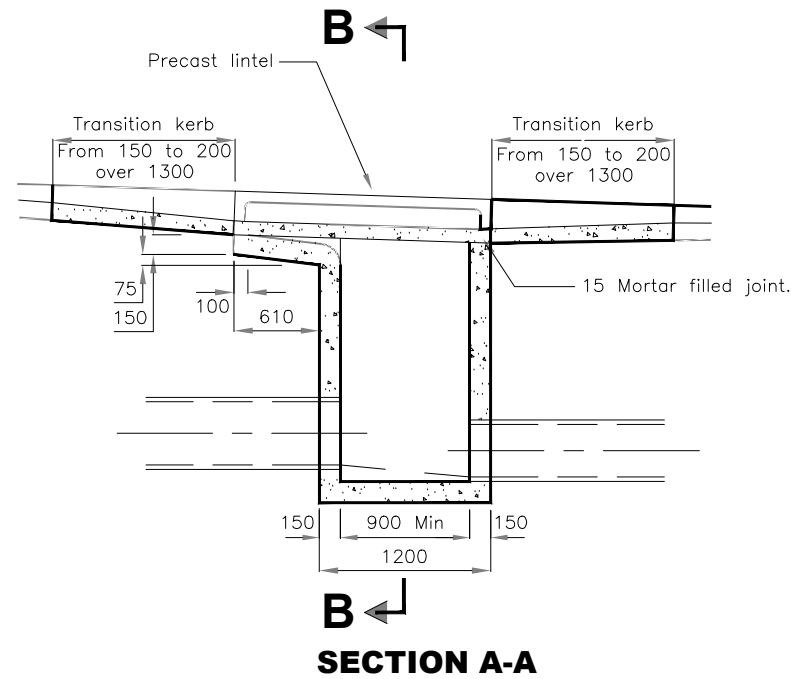
Note: Expansion joints at 1m distance from lintel.

Nominal Lintel Length	A	B
1200	1825	605
1800	2438	1218
2400	3048	1828
3000	3657	2437
3600	4267	3047

NOTE:

- Compressive strength F_c for cast in-situ concrete to be a minimum of 32MPa at 28 days.
- All dimensions are in millimetres.
- Provide SL82 mesh centrally placed to walls and base for pits >=1.5m deep. Return mesh 300mm into base and sides, or starter bars to match wall reinforcement.
- All steelwork shall be hot dip galvanised in accordance with AS 1650
- Expansion joints to be 15mm wide for full depth of kerb & gutter, with joint being of a preformed material of bituminous fibreboard.
- Where pit is deeper than 1200mm provide step irons. Refer drawing ASD300 for Step Iron details.

SURVEYED OFFICER: DATE: SURVEY MARKS:	LIST OF REVISIONS REV. DATE OFFICER	AMENDMENT DETAILS	APPROVED - Manager Subdivision Development DATE: 21 NOVEMBER 2019		SERVICES Gas: — G — Electricity: — E — Water: — W — Sewer: — S — TelComm Local Cable: — T — TelComm Major or Optic Fibre: — MOF —	ADMINISTRATION CENTRE SHELLHARBOUR CIVIC CENTRE 76 CYGNET AVENUE (Cnr Cygnet & College Avenue) POSTAL ADDRESS Locked Bag 155 SHELLHARBOUR CITY CENTRE NSW 2529 PH: (02) 4221 6111 FAX: (02) 4221 6016 DX26402 SHELLHARBOUR CITY CENTRE	PLAN DETAILS SCC STANDARD DRAWING REAR ACCESS GULLY PIT - Pipes up to 600Ø		FILE:	REVISION A
			DESIGNED: DATE:	DRAWN: DATE:			SEDIMENT AND EROSION CONTROL Provide sediment and erosion control measures in accordance with the 'Erosion & Sediment Control' guide by the NSW Office of Environment & Heritage	LOCATIONS Services shown are those known to exist at date of design. Prior to commencement of excavation contact the relevant gas, electricity, water and telecommunications service providers, including the RMS, for most recent service locations and precautions that may be necessary	PLAN No: ASD 301	SHEET:

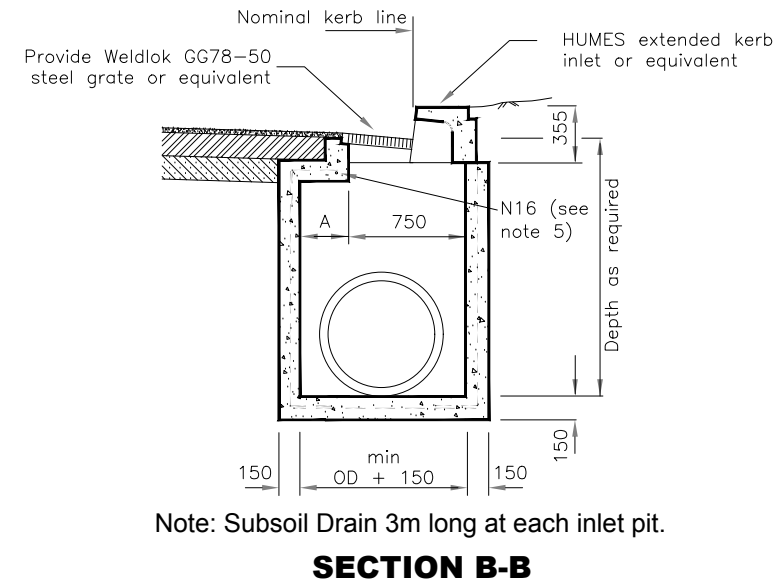
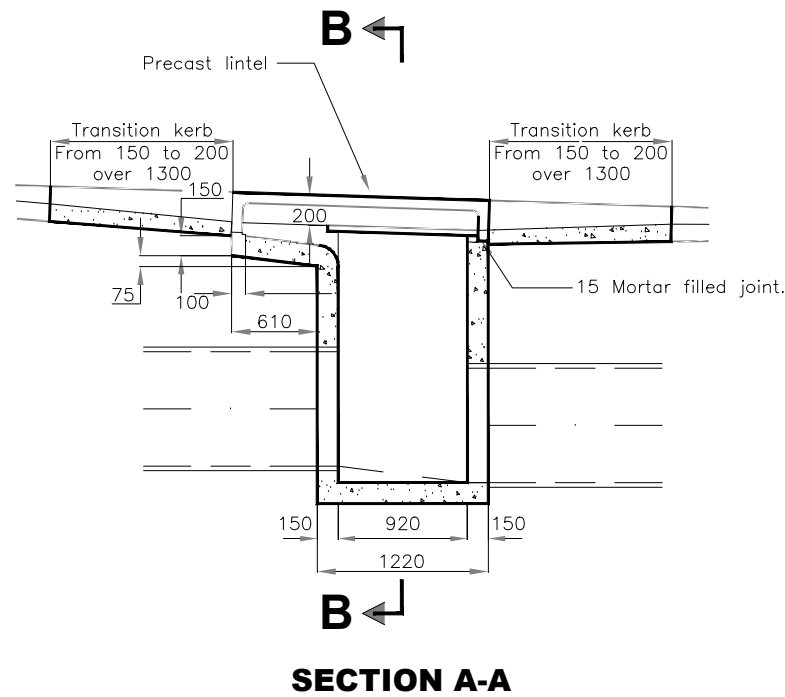


NOTE:

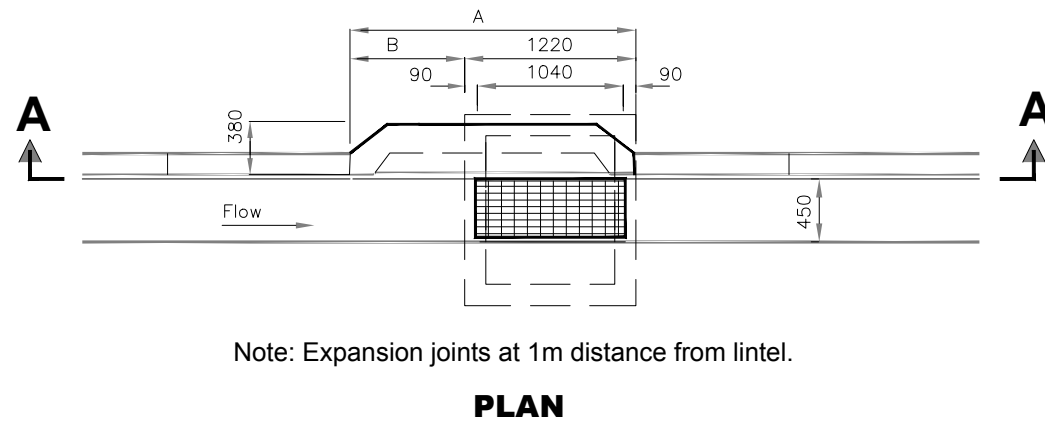
1. Compressive strength, F'c for cast insitu concrete to be min N32 to AS3600.
2. All dimensions in mm.
3. Provide SL82 mesh centrally placed to walls and base for all pits >= 1.5m deep. Minimum 50mm cover. Return mesh 300mm into base and sides, or starter bars to match wall reinforcement.
4. All exposed steelwork shall be hot dip galvanised in accordance with AS 1650.
5. Where A > 300 provide N16 reinforcing returned min 400 into pit walls. Where A > 900 design to be certified by Engineer.
6. For connection to subsoil drainage refer to ASD305.
7. For provision of grates in pits refer to ASD 303. Where a heavy duty steel grate is required a Weldlok GG78-42A grate or equivalent is to be specified.
8. Where pit is deeper than 1200mm provide step irons. Refer drawing ASD300 for Step Iron details.

Nominal Lintel Length	A	B
1200	1825	300
1800	2438	913
2400	3048	1523
3000	3657	2132
3600	4267	2742

SURVEYED OFFICER: DATE: SURVEY MARKS:	<table border="1" style="width:100%; border-collapse: collapse;"> <thead> <tr> <th>REV.</th> <th>DATE</th> <th>OFFICER</th> </tr> </thead> <tbody> <tr><td> </td><td> </td><td> </td></tr> <tr><td> </td><td> </td><td> </td></tr> <tr><td> </td><td> </td><td> </td></tr> <tr><td> </td><td> </td><td> </td></tr> <tr><td> </td><td> </td><td> </td></tr> <tr><td> </td><td> </td><td> </td></tr> <tr><td> </td><td> </td><td> </td></tr> <tr><td> </td><td> </td><td> </td></tr> <tr><td> </td><td> </td><td> </td></tr> <tr><td> </td><td> </td><td> </td></tr> </tbody> </table>	REV.	DATE	OFFICER																															AMENDMENT DETAILS	APPROVED - Manager Subdivision Development DATE: 21 NOVEMBER 2019 DESIGNED: DATE: DRAWN: DATE:	SERVICES LEGEND Gas: --- G --- Electricity: --- E --- Water: --- W --- Sewer: --- S --- TelComm Local Cable: --- T --- TelComm Major or Optic Fibre: --- MOF ---	LOCATIONS Services shown are those known to exist at date of design. Prior to commencement of excavation contact the relevant gas, electricity, water and telecommunications service providers, including the RMS, for most recent service locations and precautions that may be necessary	ADMINISTRATION CENTRE SHELLHARBOUR CIVIC CENTRE 76 CYGNET AVENUE (Cnr Cygnet & College Avenue) POSTAL ADDRESS Locked Bag 155 SHELLHARBOUR CITY CENTRE NSW 2529 PH: (02) 4221 6111 FAX: (02) 4221 6016 DX26402 SHELLHARBOUR CITY CENTRE	<h2 style="margin: 0;">PLAN DETAILS</h2> <h3 style="margin: 0;">SCC STANDARD DRAWING</h3> <h3 style="margin: 0;">CAST IN-SITU REAR ACCESS GULLY PIT</h3> <h3 style="margin: 0;">- Pipes > 600Ø</h3>	FILE: PLAN No: <h2 style="margin: 0;">ASD 302</h2>	REVISION <h2 style="margin: 0;">A</h2>
REV.	DATE	OFFICER																																								



Note: Subsoil Drain 3m long at each inlet pit.

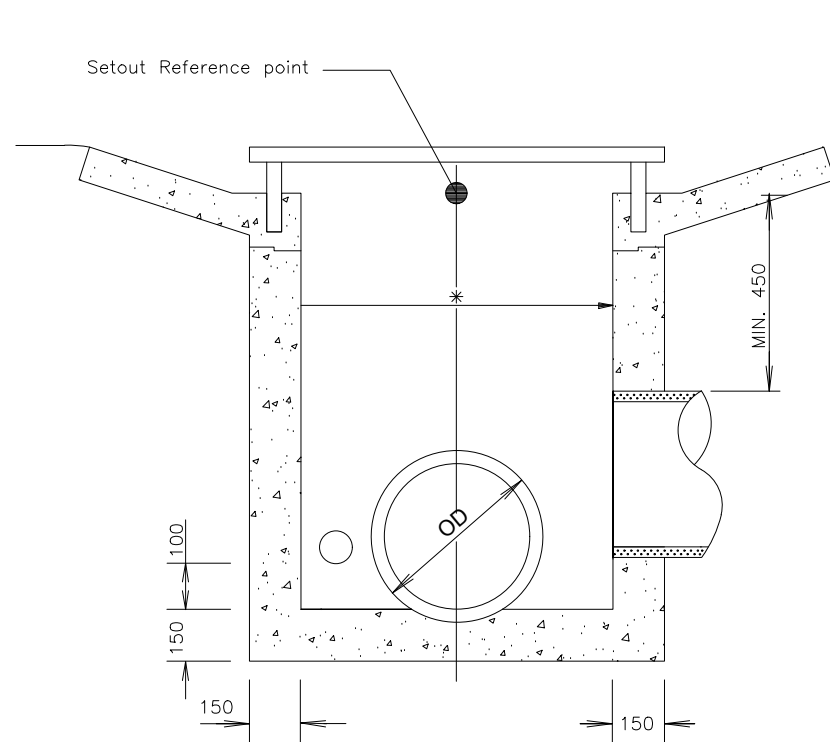


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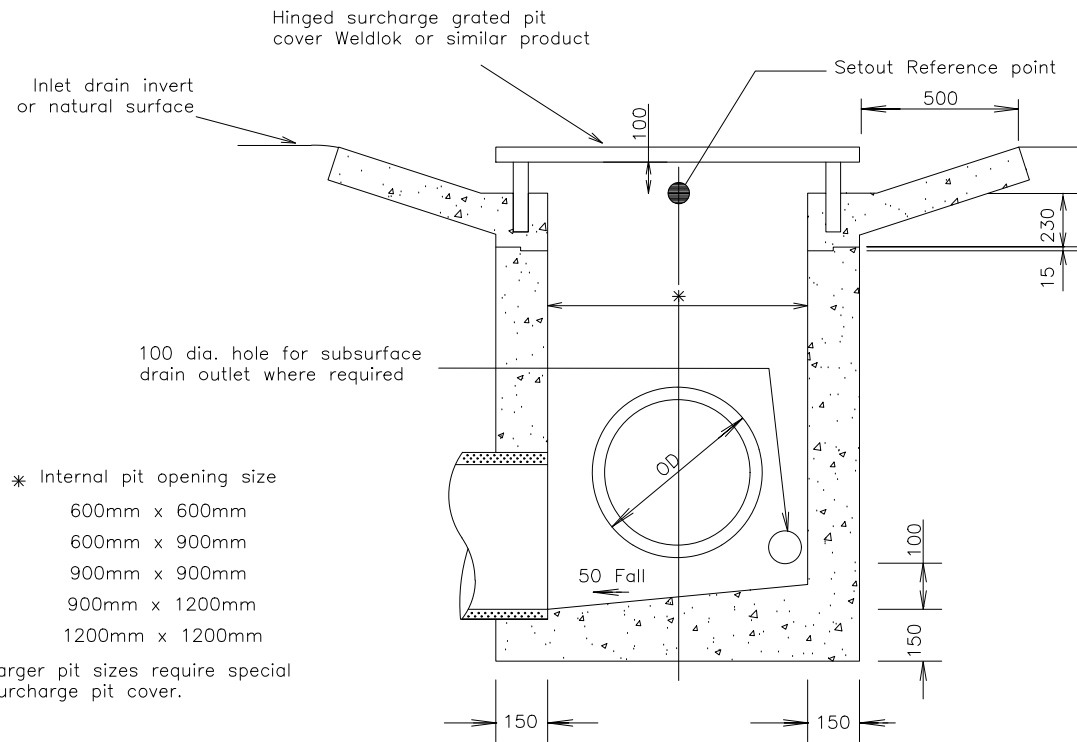
1. Compressive strength, F'c for cast insitu concrete to be min N32 to AS3600
2. All dimensions in mm.
3. Provide SL82 mesh centrally placed to walls and base for all pits Minimum 50mm cover. Return mesh 300mm into base and sides, or starter bars to match wall reinforcement.
4. All exposed steelwork shall be hot dip galvanised in accordance with AS 1650.
5. Where A > 300 provide N16 reinforcing returned min 400 into pit walls. Where A > 900 design to be certified by Engineer.
6. For connection to subsoil drainage refer to ASD305.
7. Where a heavy duty steel grate is required a Weldlok GG78-42A grate or equivalent is to be specified.
8. Where pit is deeper than 1200mm provide step irons. Refer drawing ASD300 for Step Iron details.

Nominal Lintel Length	A	B
1200	1825	605
1800	2438	1218
2400	3048	1828
3000	3657	2437
3600	4267	3047

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REV.	DATE	OFFICER																																					



SECTION AA

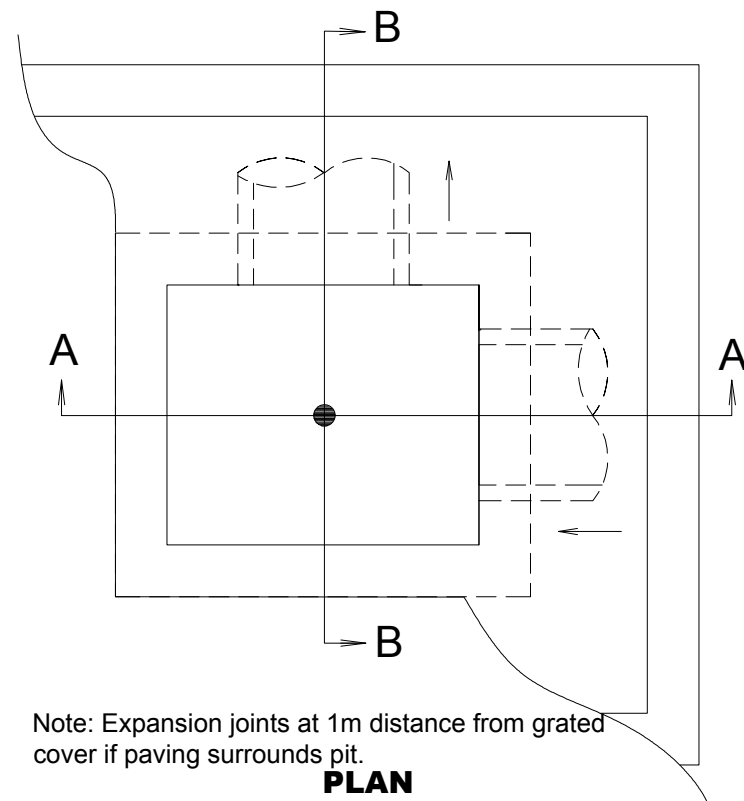


ELEVATION

SECTION BB

- * Internal pit opening size
- 600mm x 600mm
 - 600mm x 900mm
 - 900mm x 900mm
 - 900mm x 1200mm
 - 1200mm x 1200mm
- Larger pit sizes require special surcharge pit cover.

Note: Subsoil Drain 3m long at each inlet pit.



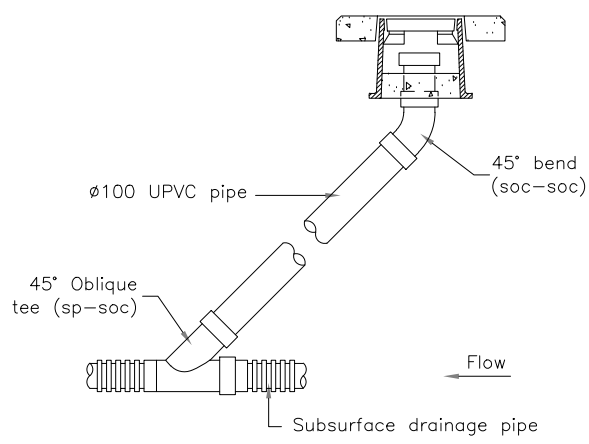
Note: Expansion joints at 1m distance from grated cover if paving surrounds pit.

PLAN
(GRATE NOT SHOWN)

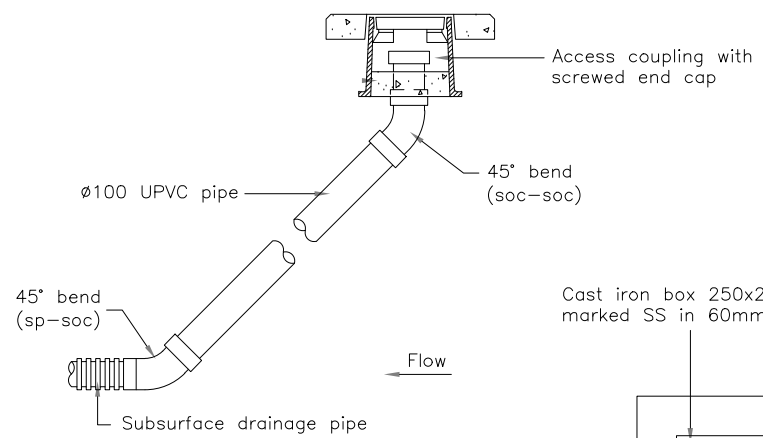
NOTE:

1. Compressive strength F_c for cast insitu concrete to be a minimum of 32mpa at 28 days.
2. All dimensions are in millimetres.
3. Provide SL82 mesh centrally placed to walls of pits > 1.5m deep. 50mm min cover. Return mesh 300mm into base and sides, or starter bars to match wall reinforcement.
4. All steelwork shall be hot dip galvanised in accordance with AS 1650
5. Max depth pit 3500mm.
6. Provide min 50mm drop through pit.
7. Where pit is deeper than 1200mm provide step irons. Refer drawing ASD300 for Step Iron details.

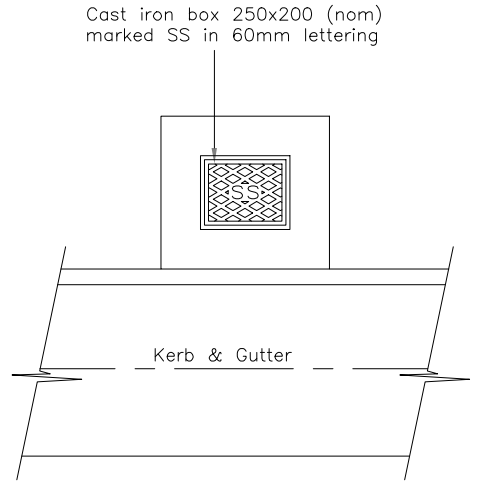
SURVEYED OFFICER: DATE: SURVEY MARKS:	<table border="1" style="width: 100%; border-collapse: collapse;"> <tr> <th colspan="3">LIST OF REVISIONS</th> </tr> <tr> <th>REV.</th> <th>DATE</th> <th>OFFICER</th> </tr> <tr> <td> </td> <td> </td> <td> </td> </tr> <tr> <td> </td> <td> </td> <td> </td> </tr> <tr> <td> </td> <td> </td> <td> </td> </tr> <tr> <td> </td> <td> </td> <td> </td> </tr> <tr> <td> </td> <td> </td> <td> </td> </tr> <tr> <td> </td> <td> </td> <td> </td> </tr> <tr> <td> </td> <td> </td> <td> </td> </tr> </table>	LIST OF REVISIONS			REV.	DATE	OFFICER																						AMENDMENT DETAILS	APPROVED - Manager Subdivision Development DATE: 21 NOVEMBER 2019	SERVICES Gas: --- G --- Electricity: --- E --- Water: --- W --- Sewer: --- S --- TelComm Local Cable: --- T --- TelComm Major or Optic Fibre: --- MOF ---	LEGEND --- G --- --- E --- --- W --- --- S --- --- T --- --- MOF ---	<div style="text-align: center;"> Shellharbour CITY COUNCIL </div> <p style="font-size: small;"> ADMINISTRATION CENTRE SHELLHARBOUR CIVIC CENTRE 76 CYGNET AVENUE (Cnr Cygnet & College Avenue) POSTAL ADDRESS Locked Bag 155 SHELLHARBOUR CITY CENTRE NSW 2529 PH: (02) 4221 6111 FAX: (02) 4221 6016 DX26402 SHELLHARBOUR CITY CENTRE </p>	<h2 style="margin: 0;">PLAN DETAILS</h2> <h1 style="margin: 0;">SCC STANDARD DRAWING CAST IN-SITU STANDARD SURFACE INLET PIT</h1>	FILE:	REVISION A
LIST OF REVISIONS																																				
REV.	DATE	OFFICER																																		
								PLAN No: ASD 304	SHEET:																											



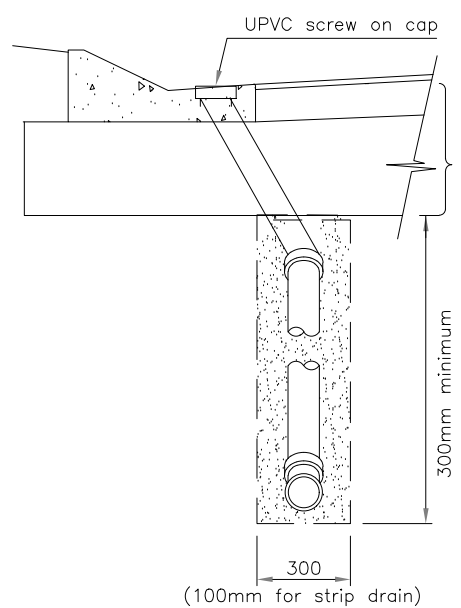
FLUSHING POINT ON LINE



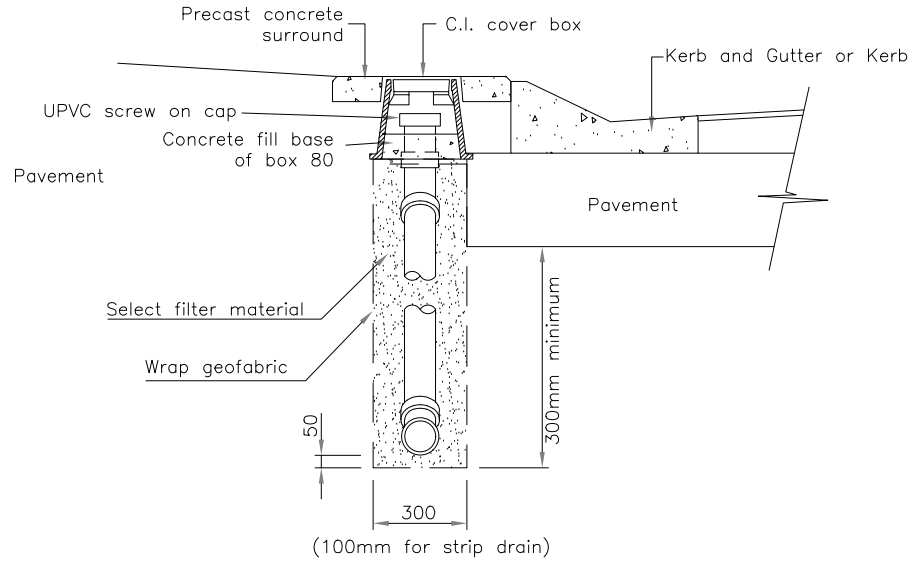
FLUSHING POINT HEAD OF LINE



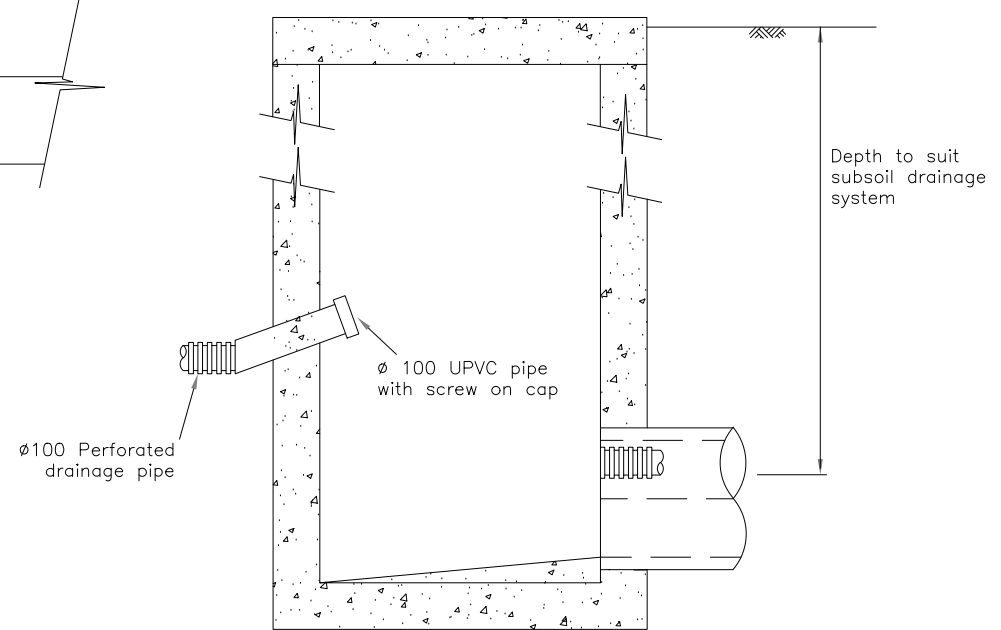
PLAN



**ALT. DETAIL
Pavement Rehabilitation**



TRENCH DETAILS

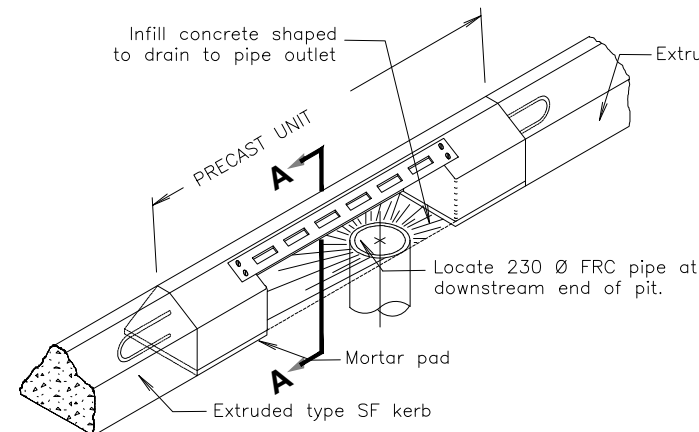


PIT CONNECTION

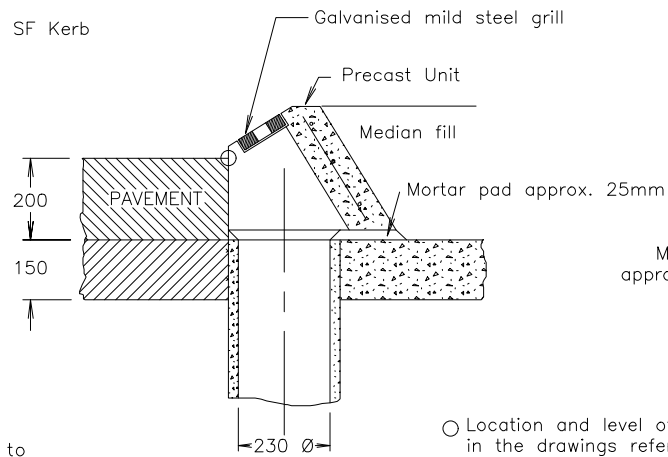
NOTES:

1. Construction shall be in accordance with Shellharbour Engineering Construction Code based on AUS-SPEC.
2. Provide flushing points at max 50m centres and outlets at max 100m centres.
3. Select filter material in accordance with Shellharbour Engineering Construction Code based on AUS-SPEC - Subsurface Drainage.
4. All filter material shall be geotextile wrapped, min 140g/m³ woven geotextile to AS 3706.
5. Subsoil drainage pipe shall be slotted UPVC or perforated, ribbed HDPE to AS2439.1.
6. Minimum longitudinal grades for pipes shall be: ribbed HDPE pipe - 1.5%, slotted UPVC pipe - 1%, 450mm strip drain - 0.5%.
7. UPVC pipe and fittings shall be min Class 12.
8. Road crossings to be Sewer Heavy grade UPVC Pipe.

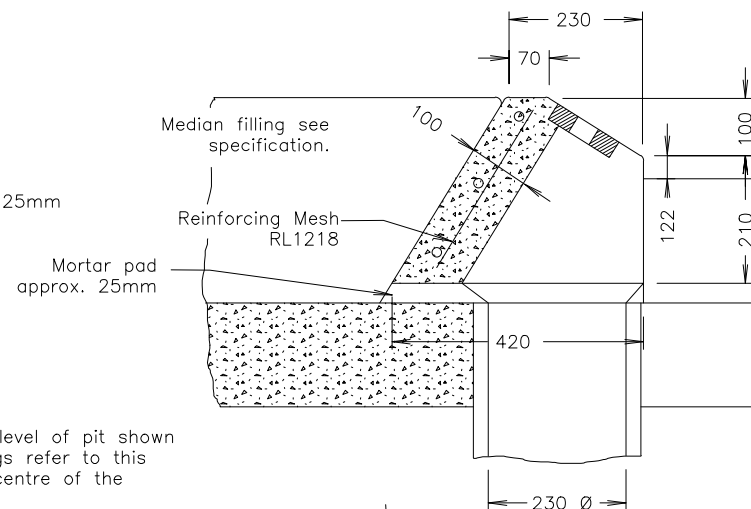
SURVEYED OFFICER: DATE: SURVEY MARKS:	LIST OF REVISIONS REV. DATE OFFICER	AMENDMENT DETAILS	APPROVED - Manager Subdivision Development DATE: 21 NOVEMBER 2019	LOCATIONS SERVICES	LEGEND Gas: --- G --- Electricity: --- E --- Water: --- W --- Sewer: --- S --- TelComm Local Cable: --- T --- TelComm Major or Optic Fibre: --- MOF ---	 ADMINISTRATION CENTRE SHELLHARBOUR CIVIC CENTRE 76 CYGNET AVENUE (Cnr Cygnet & College Avenue) POSTAL ADDRESS Locked Bag 155 SHELLHARBOUR CITY CENTRE NSW 2529 PH: (02) 4221 6111 FAX: (02) 4221 6016 DX26402 SHELLHARBOUR CITY CENTRE	PLAN DETAILS SCC STANDARD DRAWING STANDARD SUBSOIL DRAINAGE DETAILS	FILE:	REVISION A
				DESIGNED: DATE: DRAWN: DATE: SEDIMENT AND EROSION CONTROL <small>Provide sediment and erosion control measures in accordance with the 'Erosion & Sediment Control' guide by the NSW Office of Environment & Heritage</small>			PLAN No: ASD 305	SHEET:	



PRECAST MEDIAN KERB INLET FOR SF KERB

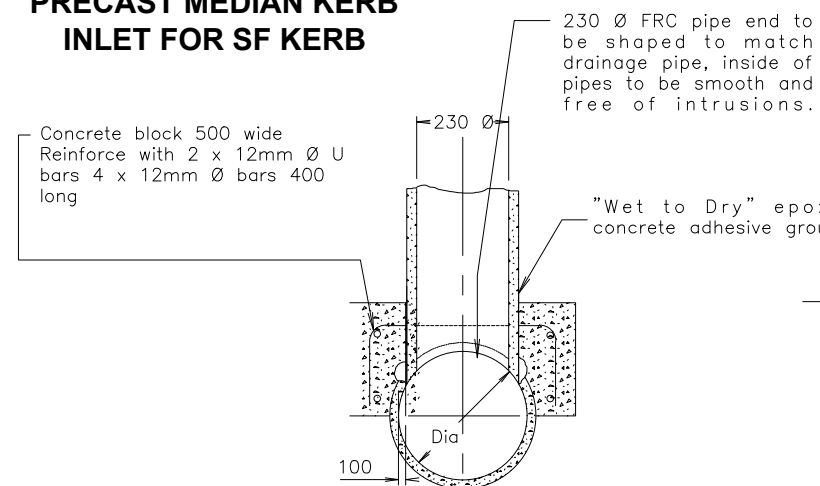


TYPE 'B' SECTION 'AA'



SECTION 'AA'

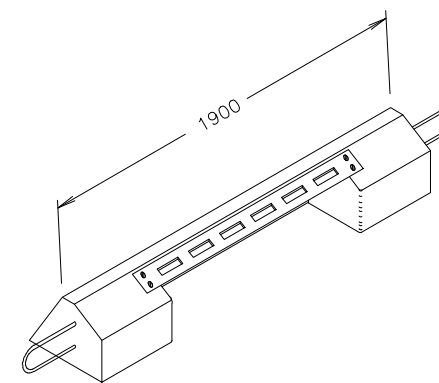
Concrete Grade N32



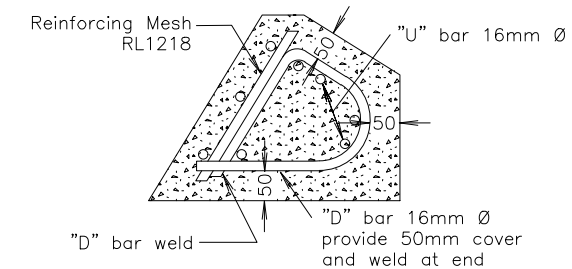
TYPE 'A'

NOTE

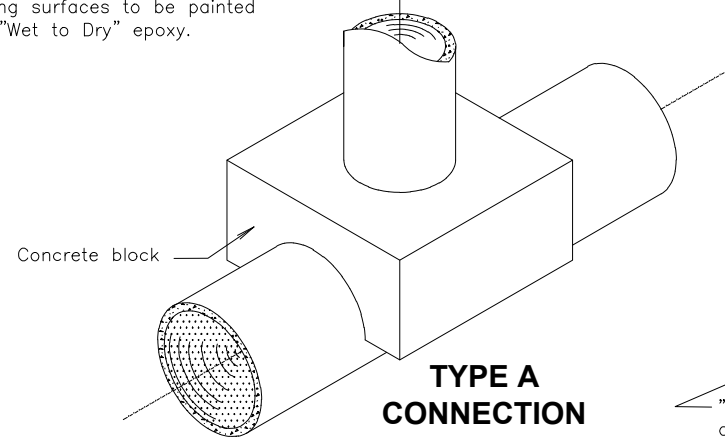
Immediately prior to application of epoxy grout or concrete, jointing surfaces to be painted with "Wet to Dry" epoxy.



PRECAST MEDIAN KERB INLET



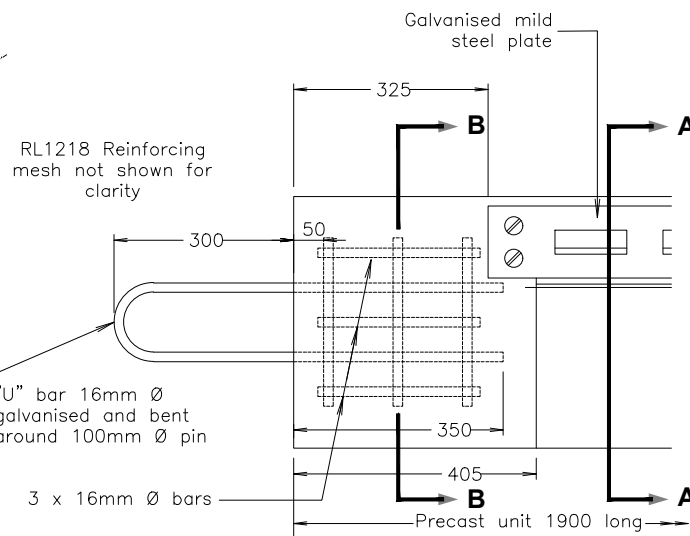
SECTION 'BB'



TYPE A CONNECTION

CONNECTION TYPES

TYPE A:- 300-525mm Ø R.C.P.
TYPE B:- 600mm + Ø R.C.P.



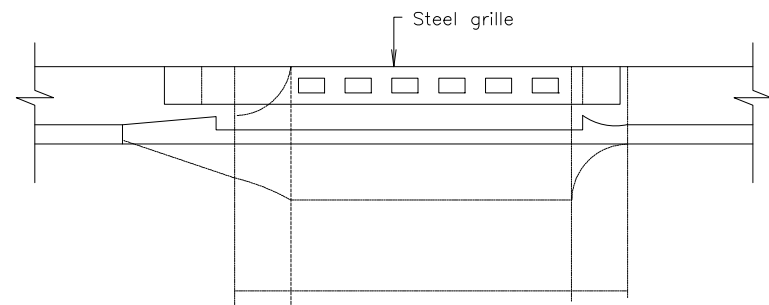
ELEVATION

NOTE

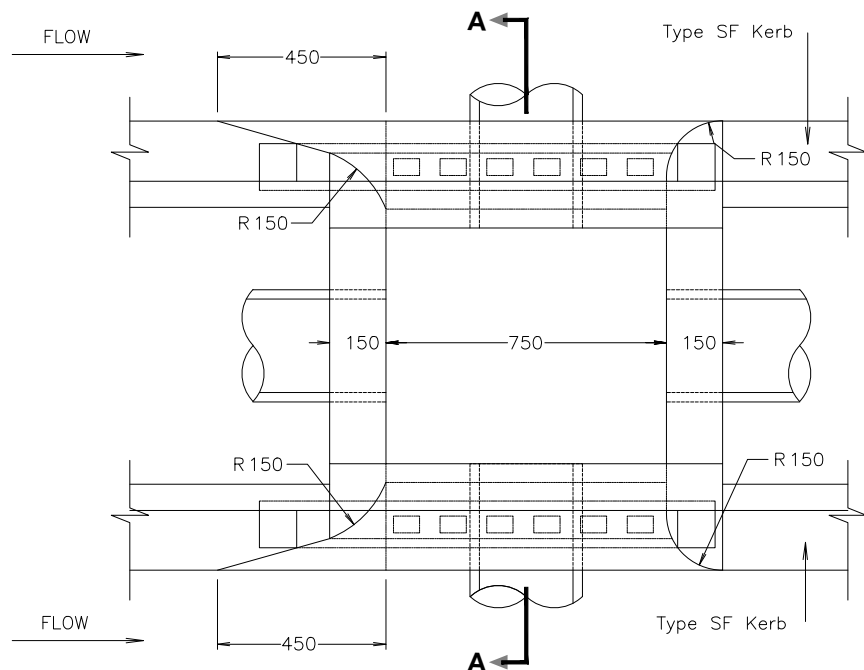
Reinforcement and end treatment to be duplicated at other end. All dimensions are in millimetres unless otherwise stated.

This plan has been adopted from the plan produced by the Roads and Maritime Services NSW (RMS). Drawing Number R0220-11 REFER CURRENT OR EQUIVALENT EDITION BEFORE USE.

SURVEYED OFFICER: DATE: SURVEY MARKS:	LIST OF REVISIONS REV. DATE OFFICER	AMENDMENT DETAILS	APPROVED - Manager Subdivision Development DATE: 21 NOVEMBER 2019		SERVICES Gas: --- G --- Electricity: --- E --- Water: --- W --- Sewer: --- S --- TelComm Local Cable: --- T --- TelComm Major or Optic Fibre: --- MOF ---		ADMINISTRATION CENTRE SHELLHARBOUR CIVIC CENTRE 76 CYGNET AVENUE (Cnr Cygnet & College Avenue) POSTAL ADDRESS Locked Bag 155 SHELLHARBOUR CITY CENTRE NSW 2529 PH: (02) 4221 6111 FAX: (02) 4221 6016 DX26402 SHELLHARBOUR CITY CENTRE	PLAN DETAILS		FILE:	REVISION A
			DESIGNED: DATE: DRAWN: DATE:					SEDIMENT AND EROSION CONTROL Provide sediment and erosion control measures in accordance with the "Erosion & Sediment Control" guide by the NSW Office of Environment & Heritage		SCC STANDARD DRAWING PRECAST MEDIAN KERB INLET FOR SF KERB	

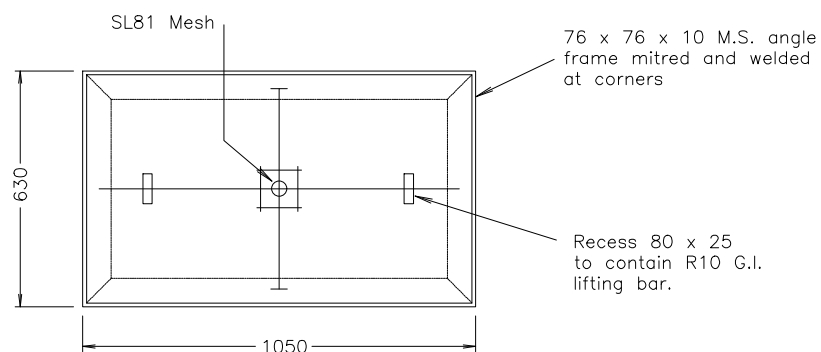


ELEVATION OF INLET

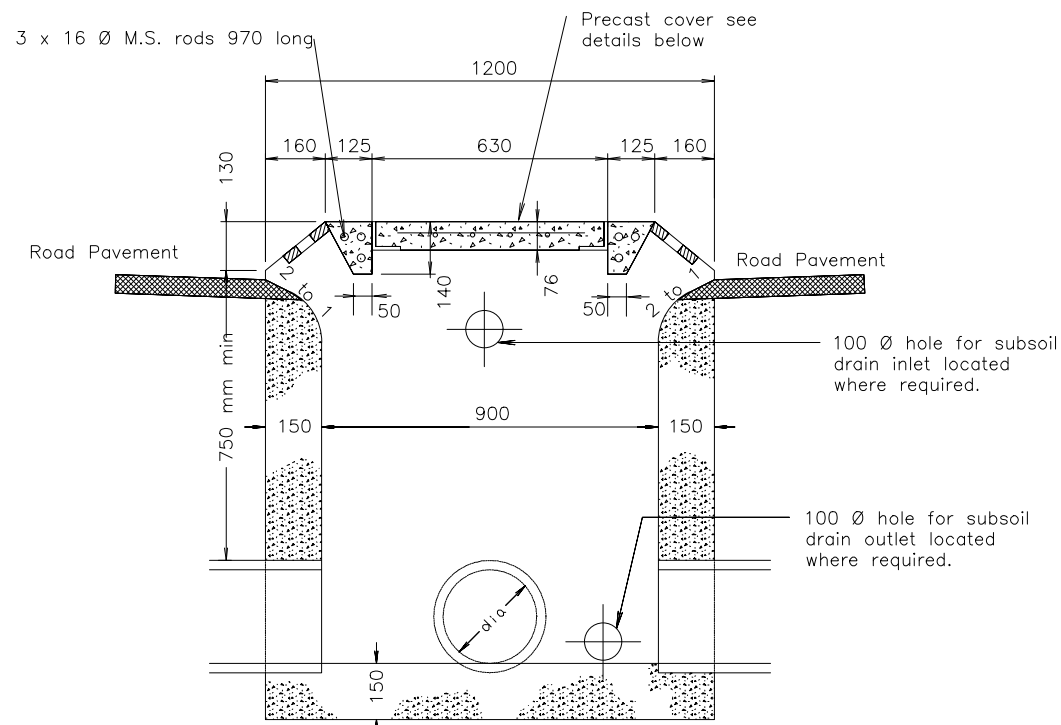


Note: Expansion joints at 1m distance from lintel.

PLAN WITH COVER AND GRILLE REMOVED



PLAN OF PIT COVER



Note: Subsoil Drain 3m long at each inlet pit.

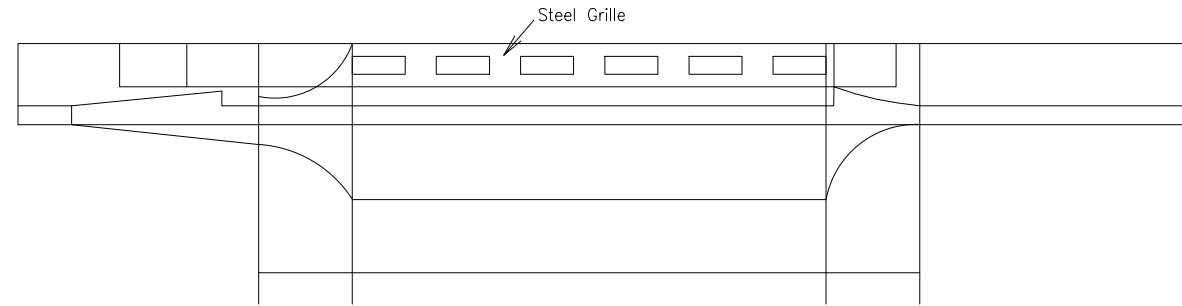
SECTION AA

NOTES:

1. Compressive strength, F_c for cast insitu concrete to be min N32 to AS 3600.
2. All exposed edges to be rounded with 20mm radius.
3. All mild steel material to be galvanised on completion in accordance with AS1650.
4. Side walls of all pits deeper than 1500 are to be reinforced with one layer of SL82 mesh. Return mesh 300mm into base and sides, or starter bars to match wall reinforcement.
5. Depth of pit not to exceed 3500.
6. Where pit is deeper than 1200mm provide step irons. Refer drawing ASD300 for Step Iron details.
7. For connection to subsoil drainage refer to ASD305.
8. All dimensions are in millimetres.

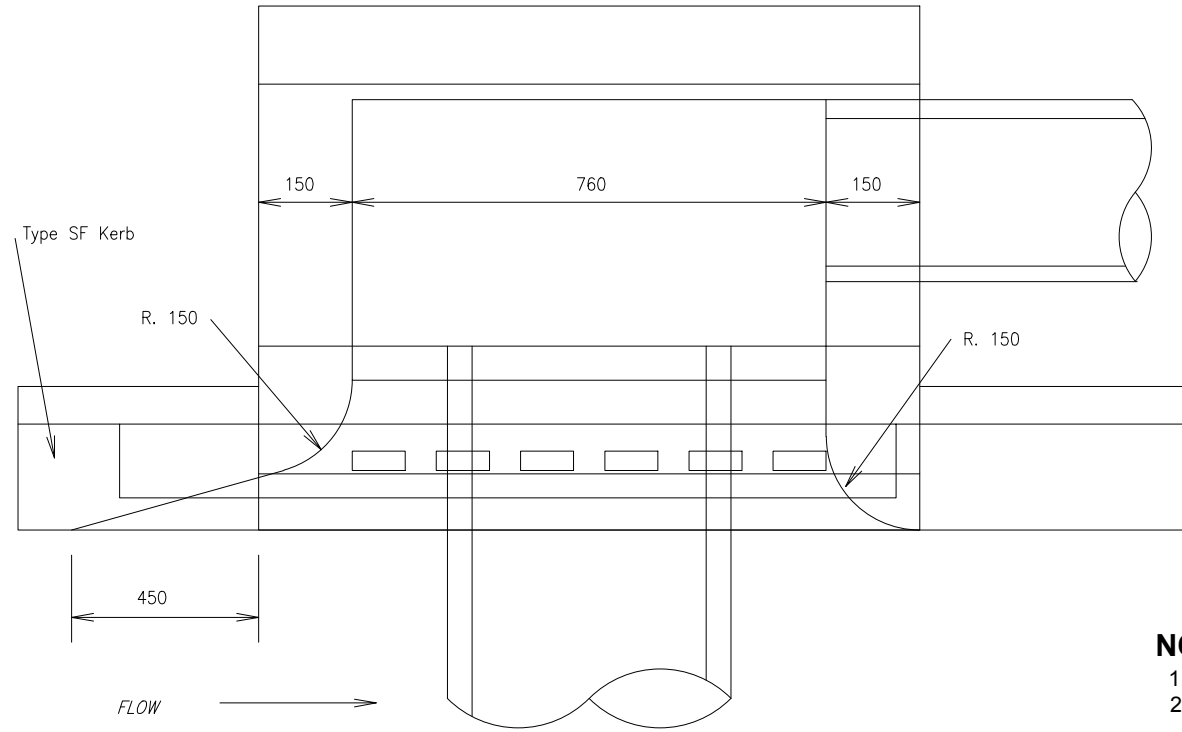
This plan has been adopted from the plan produced by the Roads and Maritime Services NSW (RMS). Drawing Number R0220-10 REFER TO CURRENT EQUIVALENT EDITION BEFORE USE.

SURVEYED OFFICER: DATE: SURVEY MARKS:	LIST OF REVISIONS REV. DATE OFFICER	AMENDMENT DETAILS	APPROVED - Manager Subdivision Development DATE: 21 NOVEMBER 2019	LOCATIONS SERVICES LEGEND Gas: --- G --- Electricity: --- E --- Water: --- W --- Sewer: --- S --- TelComm Local Cable: --- T --- TelComm Major or Optic Fibre: --- MOF ---	ADMINISTRATION CENTRE SHELLHARBOUR CIVIC CENTRE 76 CYGNET AVENUE (Cnr Cygnet & College Avenue) POSTAL ADDRESS Locked Bag 155 SHELLHARBOUR CITY CENTRE NSW 2529 PH: (02) 4221 6111 FAX: (02) 4221 6016 DX26402 SHELLHARBOUR CITY CENTRE	PLAN DETAILS SCC STANDARD DRAWING STANDARD DOUBLE INLET GULLY PIT FOR TYPE SF KERB	FILE:	REVISION A
	DESIGNED: DATE:		DRAWN: DATE:	SEDIMENT AND EROSION CONTROL Provide sediment and erosion control measures in accordance with the 'Erosion & Sediment Control' guide by the NSW Office of Environment & Heritage	SERVICES shown are those known to exist at date of design. Prior to commencement of excavation contact the relevant gas, electricity, water and telecommunications service providers, including the RMS, for most recent service locations and precautions that may be necessary	PLAN No: ASD 308	SHEET:	

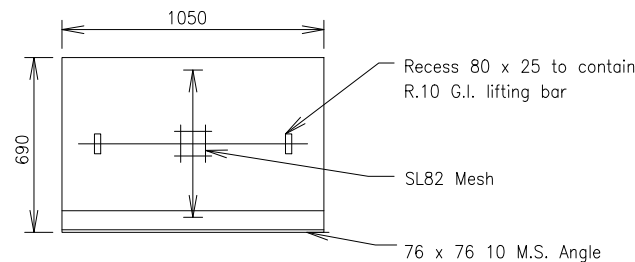


ELEVATION OF INLET

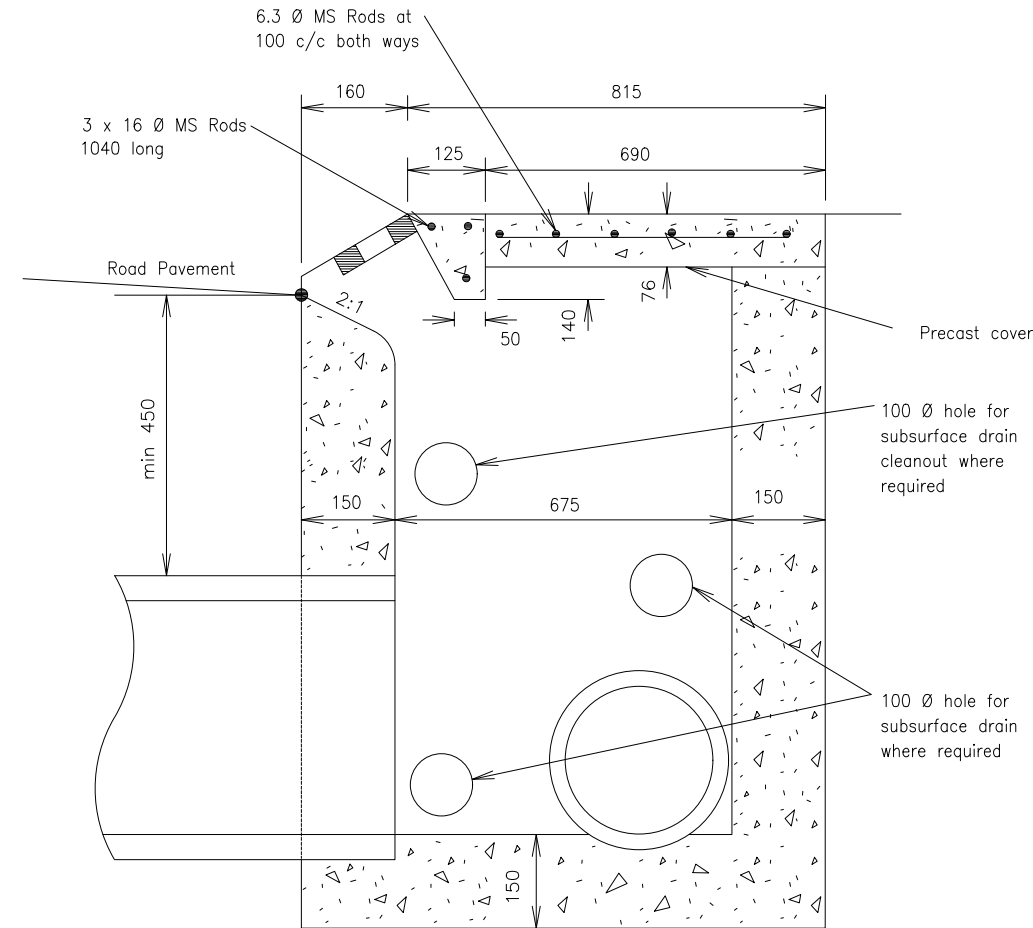
A ↙



PLAN WITH COVER AND GRILLE REMOVED



CONCRETE COVER



Note: Subsoil Drain 3m long at each inlet pit.

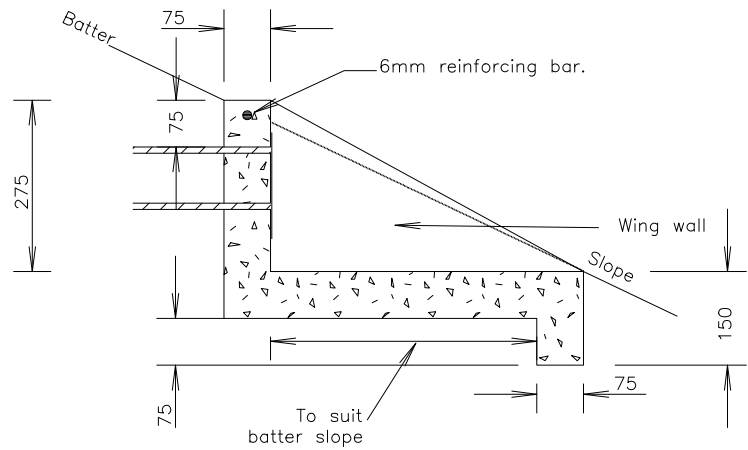
SECTION A - A

NOTES:

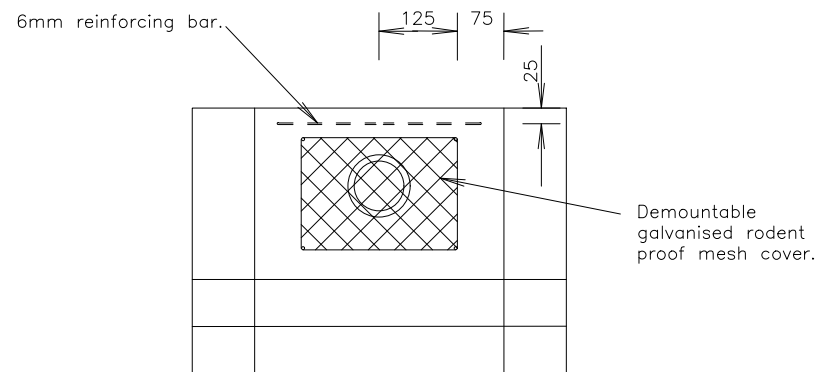
1. Compressive strength, F_c for cast insitu concrete to be min N32 to AS 3600.
2. Side walls of pits deeper than 1500 are to be reinforced with one layer of SL82 mesh. Return mesh 300mm into base and sides, or starter bars to match wall reinforcement.
3. Depth of pit not to exceed 3500.
4. Where pit is deeper than 1200mm provide step irons. Refer drawing ASD300 for Step Iron details.
5. All exposed edges to be rounded to 20 radius.
6. For pipes greater than 450mm Ø* = nOD + (n - 1) OD/2 + 200 n = number of pipes
7. Surface of precast cover to be finished with materials and method similar to that specified for median paving.
8. All mild steel material to be galvanised on completion in accordance with AS 1650.
9. For connection to subsoil drainage refer to ASD305.
10. All Dimensions are in millimetres.

This plan has been adopted from the plan produced by the Roads and Maritime Services NSW (RMS). Drawing Number R0220-09 REFER TO CURRENT EQUIVALENT EDITION BEFORE USE.

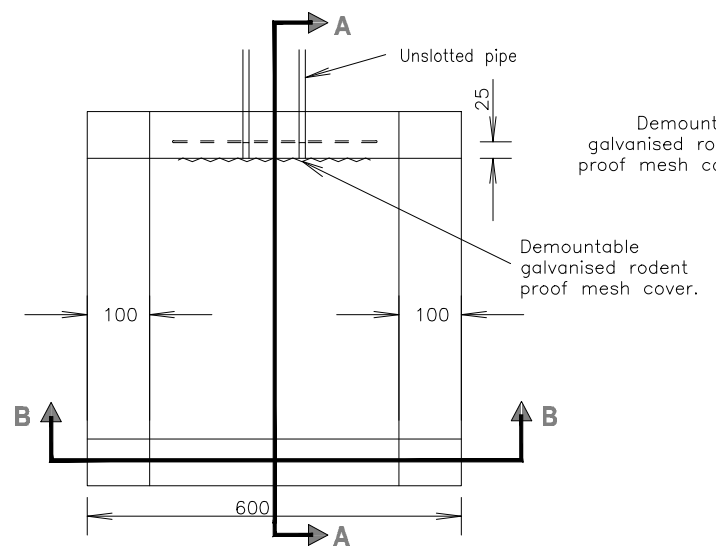
SURVEYED OFFICER: DATE: SURVEY MARKS:	LIST OF REVISIONS REV. DATE OFFICER	AMENDMENT DETAILS	APPROVED - Manager Subdivision Development DATE: 21 NOVEMBER 2019	LOCATIONS SERVICES shown are those known to exist at date of design. Prior to commencement of excavation contact the relevant gas, electricity, water and telecommunications service providers, including the RMS, for most recent service locations and precautions that may be necessary	SERVICES LEGEND Gas: --- G --- Electricity: --- E --- Water: --- W --- Sewer: --- S --- TelComm Local Cable: --- T --- TelComm Major or Optic Fibre: --- MOF ---	ADMINISTRATION CENTRE SHELLHARBOUR CIVIC CENTRE 76 CYGNET AVENUE (Cnr Cygnet & College Avenue) POSTAL ADDRESS Locked Bag 155 SHELLHARBOUR CITY CENTRE NSW 2529 PH: (02) 4221 6111 FAX: (02) 4221 6016 DX26402 SHELLHARBOUR CITY CENTRE	PLAN DETAILS SCC STANDARD DRAWING SINGLE INLET GULLY PIT FOR TYPE SF KERB	FILE: PLAN No: ASD 309	REVISION A SHEET:
	DESIGNED: DATE: DRAWN: DATE:	SEDIMENT AND EROSION CONTROL Provide sediment and erosion control measures in accordance with the 'Erosion & Sediment Control' guide by the NSW Office of Environment & Heritage	DATE:	SHEET:					



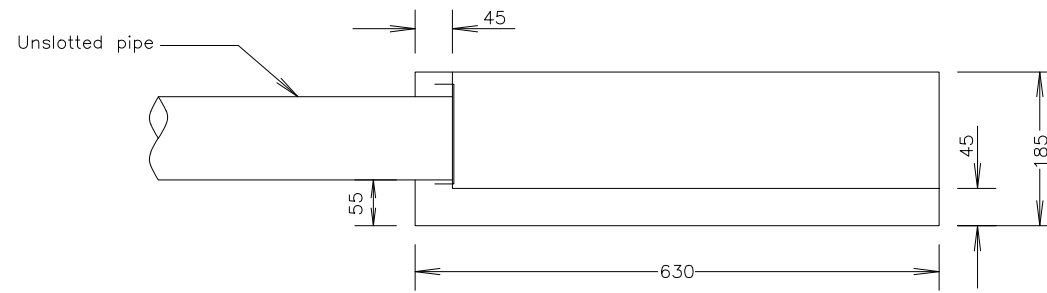
SECTION A-A



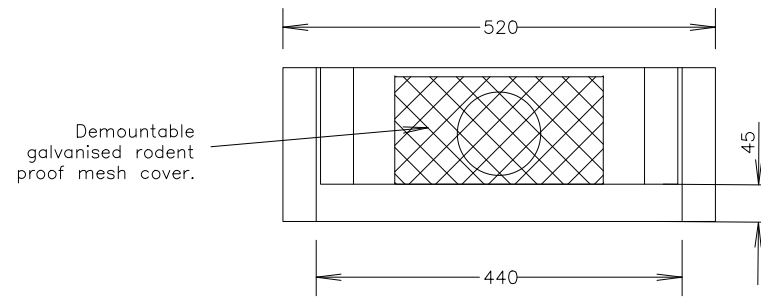
SECTION B - B



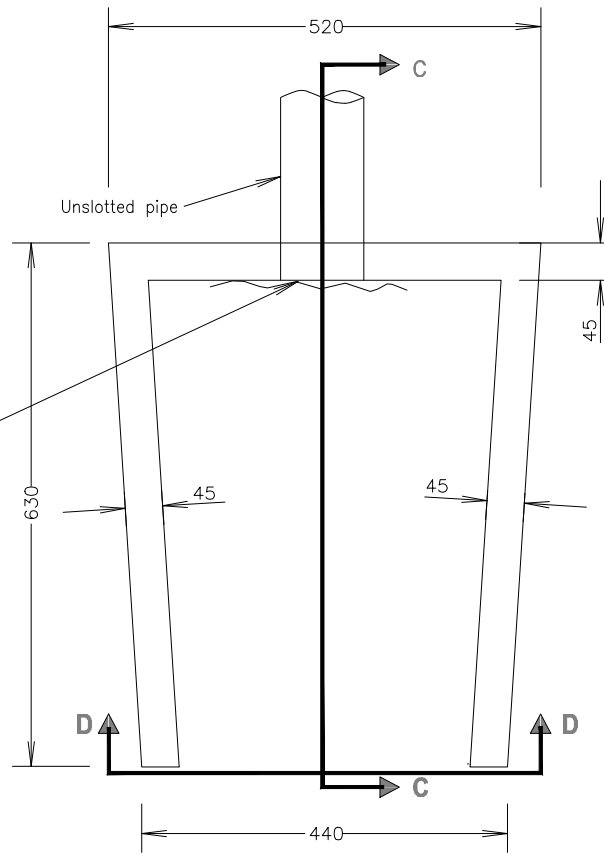
PLAN STEEP BATTER
Steeper than 4 Hor. : 1 Vert.



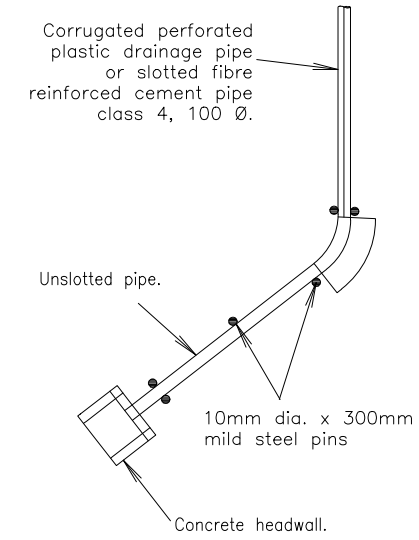
SECTION C - C



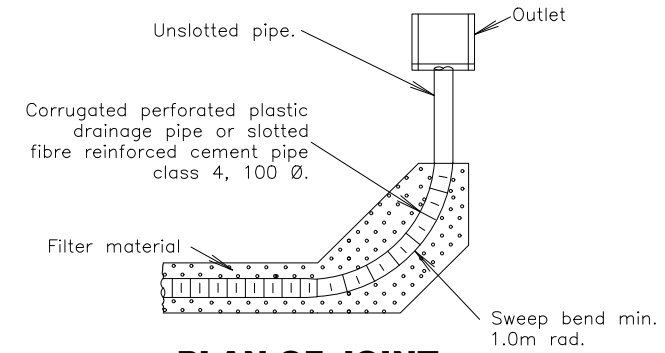
SECTION D - D



PLAN FLAT BATTER
4 Hor. : 1 Vert. or flatter.



OUTLET DETAILS TO HEADWALL



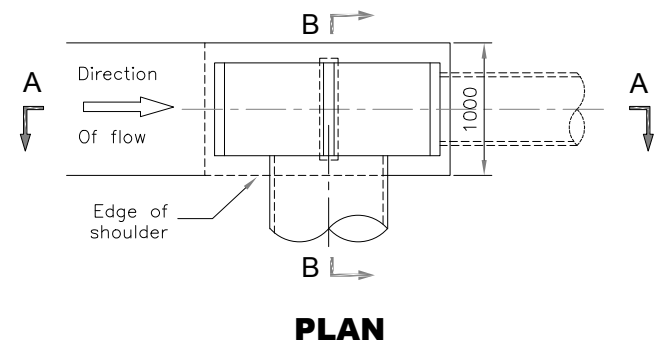
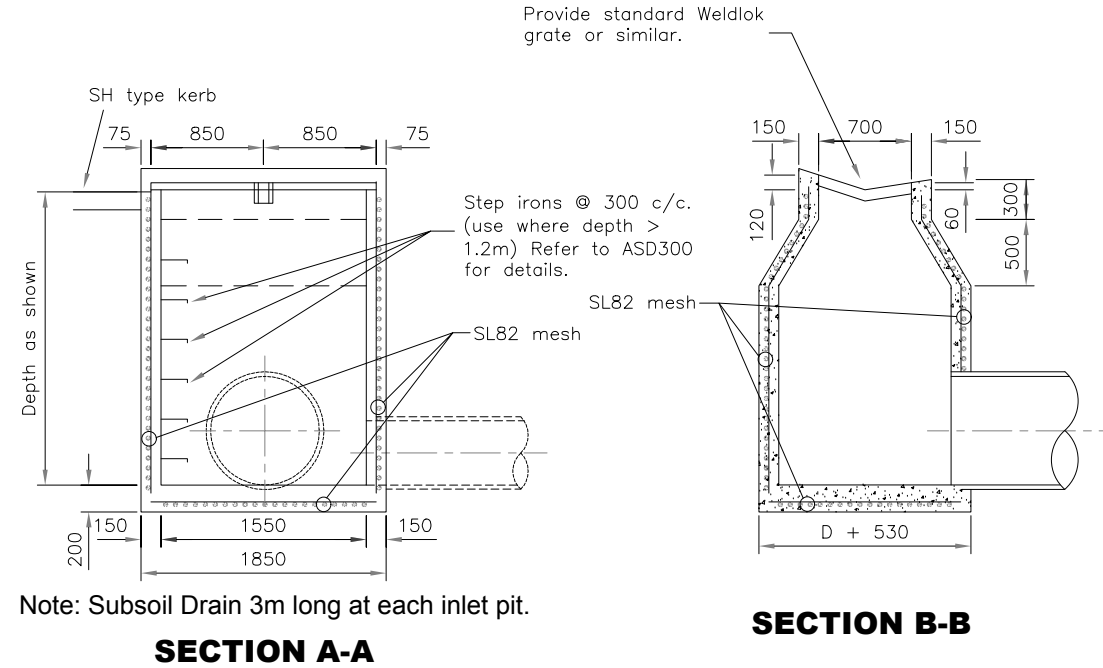
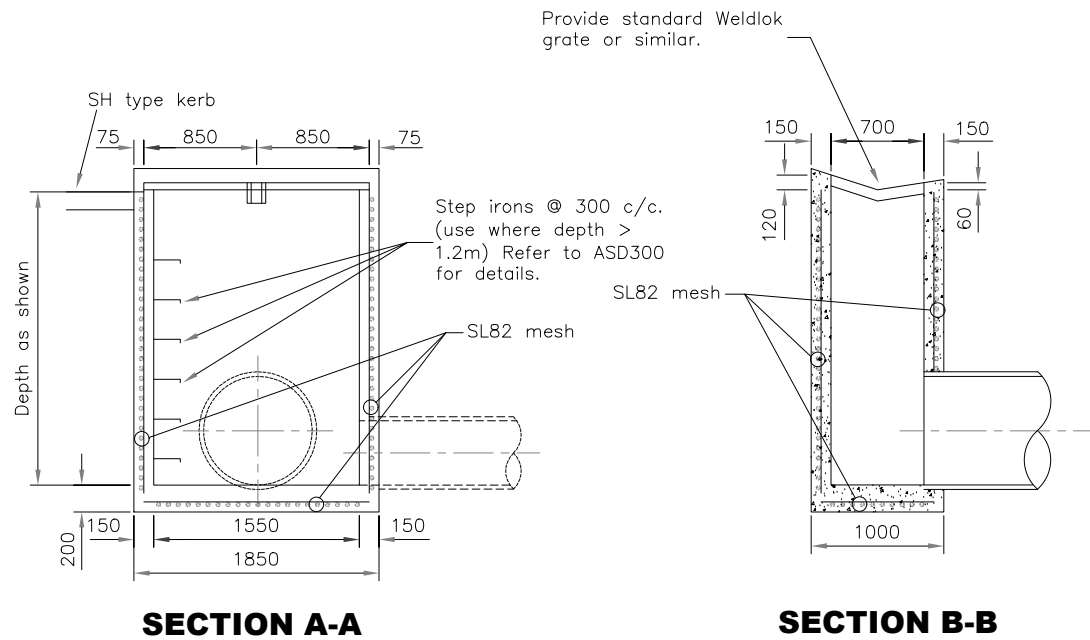
PLAN OF JOINT
(Used where subsurface drain turned at right angles across shoulder to outlet.)

NOTES:

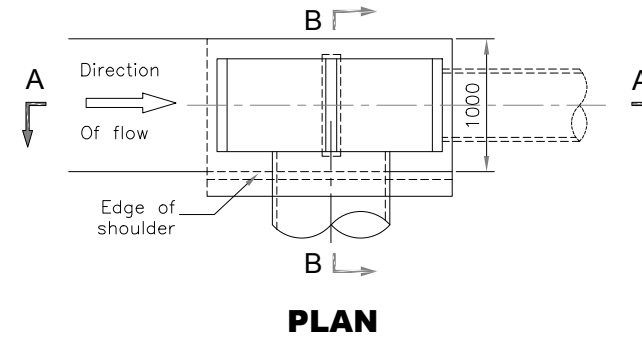
1. Compressive strength F'c for cast insitu. Concrete to be min N32 to AS 3600.
2. All dimensions in millimetres unless otherwise stated

This plan has been adopted from the plan produced by the Roads and Maritime Services NSW (RMS). Drawing Number MD.R33.A04 Sheet 1 and 2. REFER CURRENT EQUIVALENT EDITION BEFORE USE

SURVEYED OFFICER: DATE: SURVEY MARKS:	LIST OF REVISIONS REV. DATE OFFICER	AMENDMENT DETAILS	APPROVED - Manager Subdivision Development DATE: 21 NOVEMBER 2019	LOCATIONS SERVICES LEGEND Gas: --- G --- Electricity: --- E --- Water: --- W --- Sewer: --- S --- TelComm Local Cable: --- T --- TelComm Major or Optic Fibre: --- MOF ---	 ADMINISTRATION CENTRE SHELLHARBOUR CIVIC CENTRE 76 CYGNET AVENUE (Cnr Cygnet & College Avenue) POSTAL ADDRESS Locked Bag 155 SHELLHARBOUR CITY CENTRE NSW 2529 PH: (02) 4221 6111 FAX: (02) 4221 6016 DX26402 SHELLHARBOUR CITY CENTRE	PLAN DETAILS SCC STANDARD DRAWING CAST IN-SITU OUTLET STRUCTURES FOR SUBSURFACE DRAINS		FILE:	REVISION A
			DESIGNED: DATE: DRAWN: DATE:					SEDIMENT AND EROSION CONTROL Provide sediment and erosion control measures in accordance with the 'Erosion & Sediment Control' guide by the NSW Office of Environment & Heritage	PLAN No: ASD 310



'V' DRAIN FOR PIPE Ø450 OR LESS



'V' DRAIN FOR PIPE Ø525 OR GREATER

NOTE:

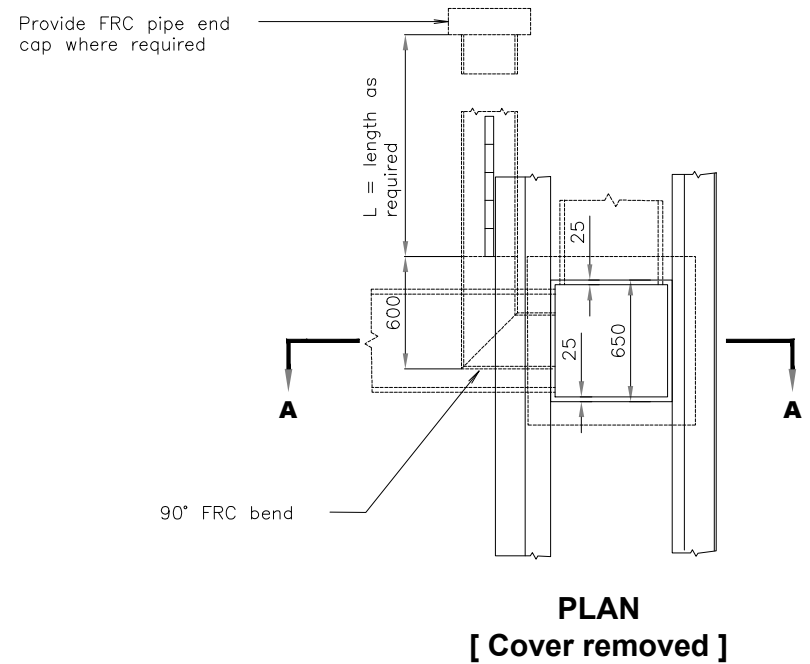
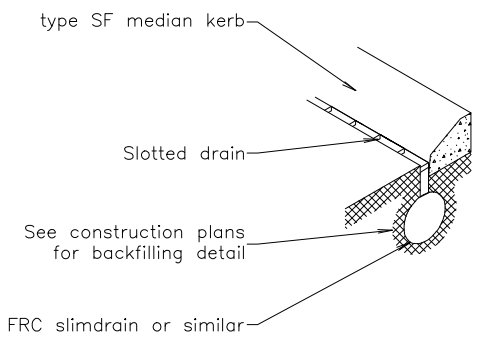
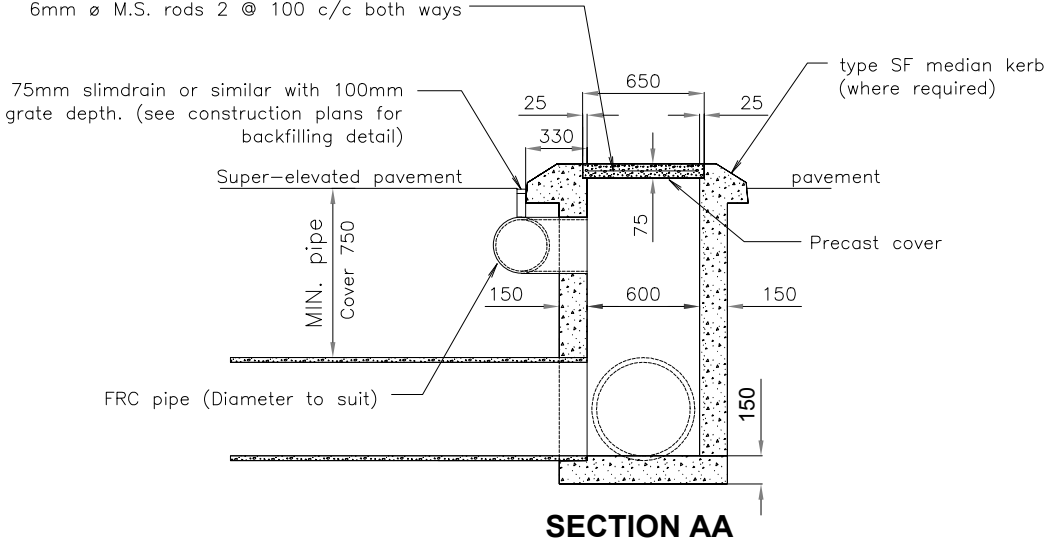
1. Compressive strength, F'c for cast insitu concrete to be min N32 to AS3600
2. All dimensions in mm
3. Provide SL82 mesh centrally placed to walls and base for all pits >1.5m deep. Minimum 50mm cover. Return mesh 300mm into base and sides, or starter bars to match wall reinforcement.
4. All exposed steelwork shall be hot dip galvanised in accordance with AS 1650

SURVEYED OFFICER: DATE: SURVEY MARKS:	LIST OF REVISIONS	AMENDMENT DETAILS	APPROVED - Manager Subdivision Development DATE: 21 NOVEMBER 2019	LOCATIONS SERVICES LEGEND	 <p>ADMINISTRATION CENTRE SHELLHARBOUR CIVIC CENTRE 76 CYGNET AVENUE (Cnr Cygnet & College Avenue)</p> <p>POSTAL ADDRESS Locked Bag 155 SHELLHARBOUR CITY CENTRE NSW 2529</p> <p>PH: (02) 4221 6111 FAX: (02) 4221 6016 DX26402 SHELLHARBOUR CITY CENTRE</p>	FILE:	REVISION
	REV. DATE OFFICER		DESIGNED: DATE: DRAWN: DATE:	SEDIMENT AND EROSION CONTROL Provide sediment and erosion control measures in accordance with the 'Erosion & Sediment Control' guide by the NSW Office of Environment & Heritage		Gas: --- G --- Electricity: --- E --- Water: --- W --- Sewer: --- S --- TelComm Local Cable: --- T --- TelComm Major or Optic Fibre: --- MOF ---	PLAN No: ASD 311
PLAN DETAILS							
SCC STANDARD DRAWING CAST IN-SITU GRATED "V" DRAIN PIT FOR SH TYPE DISH DRAIN							

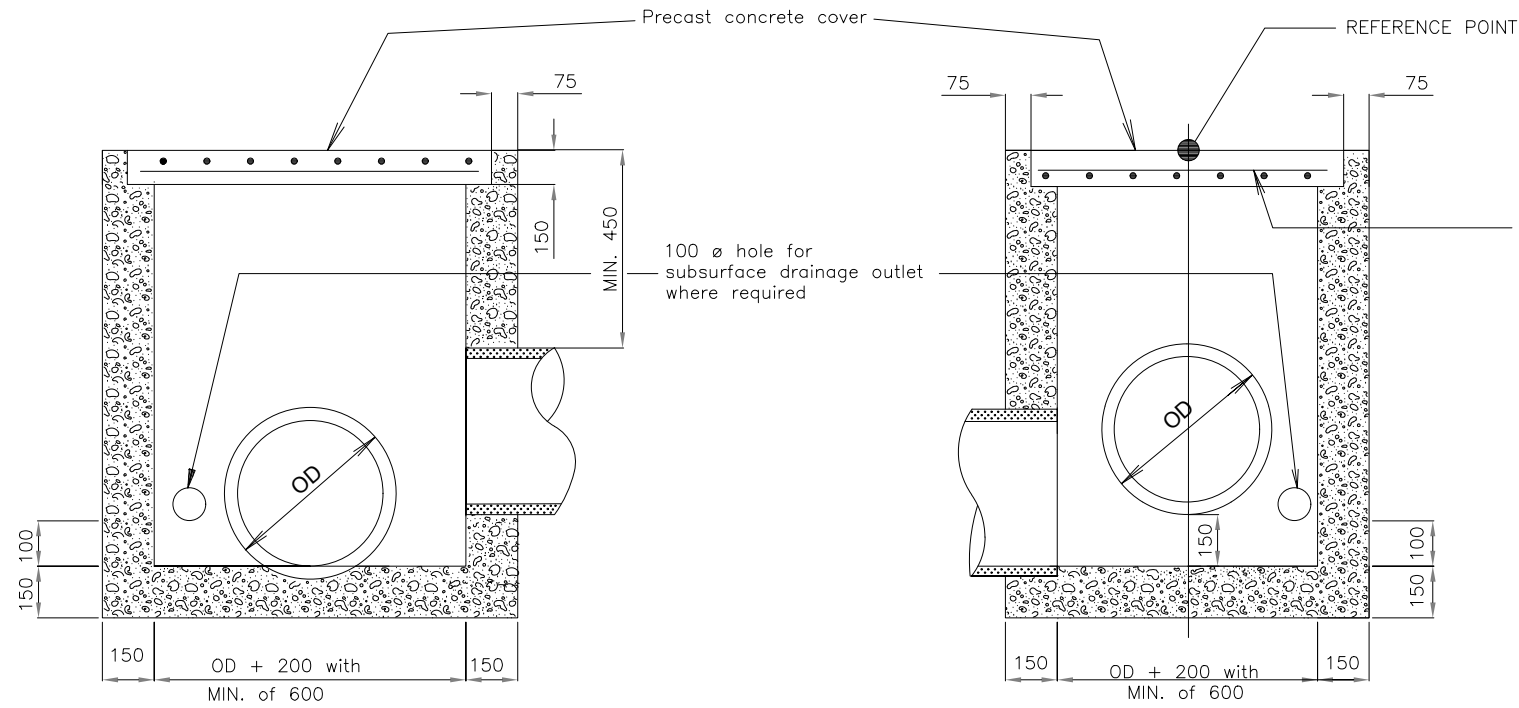
NOTES:

1. Compressive strength F'c for cast insitu concrete to be min N32 to AS 3600.
2. All dimensions in millimetres
3. Side walls of all pits deeper than 1500mm are to be reinforced with one layer of SL82 mesh. Return mesh 300mm into base and sides, or starter bars to match wall reinforcement.
4. Depth of pit not to exceed 3500mm
5. Pits deeper than 1200mm to be fitted with galvanised step irons at 300mm centres. Refer to ASD 300
6. All exposed edges to be rounded with 200mm radius
7. Median width as shown is for minimum conditions
8. All reinforcement laps to be 300mm long
9. For use with flexible pavement only

This plan has been adopted from the plan produced by the Roads and Maritime Services NSW (RMS). Drawing Number R0220-46. REFER TO CURRENT EDITION BEFORE USE.



SURVEYED OFFICER: DATE: SURVEY MARKS:	<table border="1" style="width: 100%; border-collapse: collapse;"> <tr> <th>REV.</th> <th>DATE</th> <th>OFFICER</th> </tr> <tr><td> </td><td> </td><td> </td></tr> <tr><td> </td><td> </td><td> </td></tr> <tr><td> </td><td> </td><td> </td></tr> <tr><td> </td><td> </td><td> </td></tr> <tr><td> </td><td> </td><td> </td></tr> <tr><td> </td><td> </td><td> </td></tr> <tr><td> </td><td> </td><td> </td></tr> <tr><td> </td><td> </td><td> </td></tr> <tr><td> </td><td> </td><td> </td></tr> </table>	REV.	DATE	OFFICER																												AMENDMENT DETAILS	APPROVED - Manager Subdivision Development DATE: 21 NOVEMBER 2019 DESIGNED: DATE: DRAWN: DATE:	SERVICES LEGEND Gas: --- G --- Electricity: --- E --- Water: --- W --- Sewer: --- S --- TelComm Local Cable: --- T --- TelComm Major or Optic Fibre: --- MOF ---	LOCATIONS Services shown are those known to exist at date of design. Prior to commencement of excavation contact the relevant gas, electricity, water and telecommunications service providers, including the RMS, for most recent service locations and precautions that may be necessary	ADMINISTRATION CENTRE SHELLHARBOUR CIVIC CENTRE 76 CYGNET AVENUE (Cnr Cygnet & College Avenue) POSTAL ADDRESS Locked Bag 155 SHELLHARBOUR CITY CENTRE NSW 2529 PH: (02) 4221 6111 FAX: (02) 4221 6016 DX26402 SHELLHARBOUR CITY CENTRE	<h2 style="margin: 0;">PLAN DETAILS</h2> <h3 style="margin: 0;">SCC STANDARD DRAWING</h3> <h3 style="margin: 0;">CAST IN-SITU SLIMDRAIN MEDIAN PIT</h3>	FILE: PLAN No: <h2 style="margin: 0;">ASD 312</h2>	REVISION <h2 style="margin: 0;">A</h2> SHEET:
REV.	DATE	OFFICER																																					

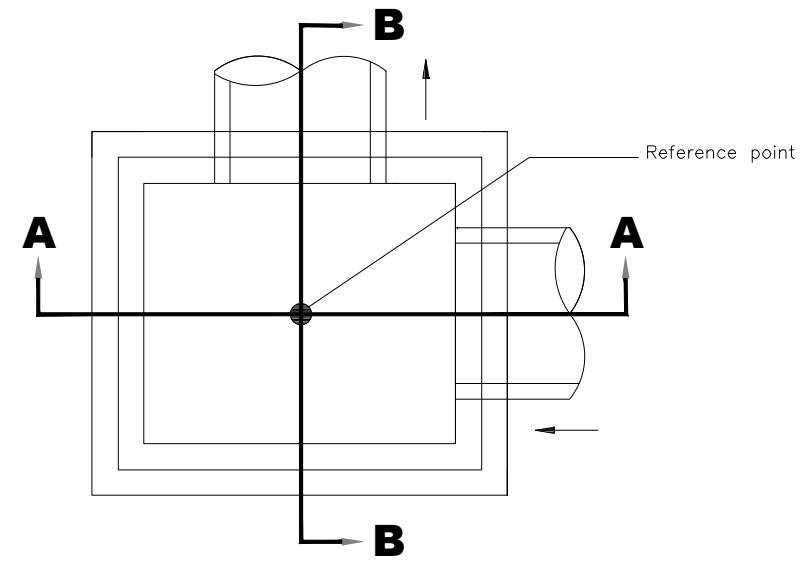


SECTION A-A

ELEVATION

SECTION B-B

Note: Subsoil Drain 3m long at each inlet pit.



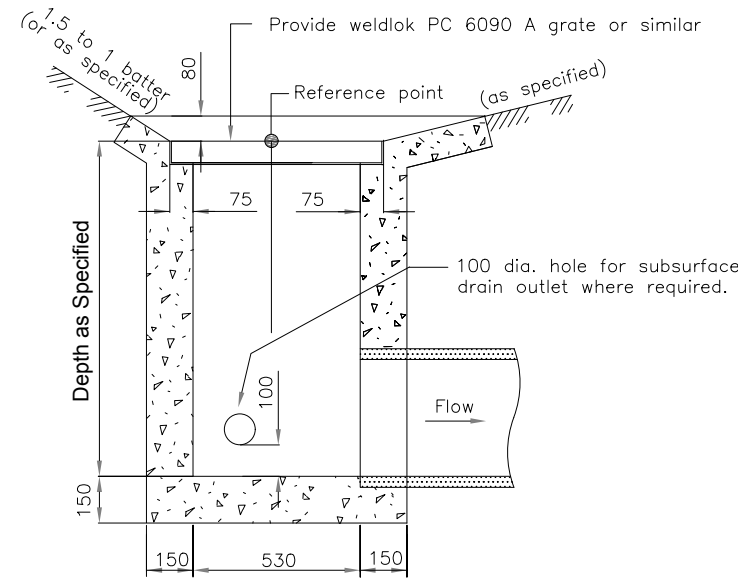
**PLAN
(LID REMOVED)**

NOTES:

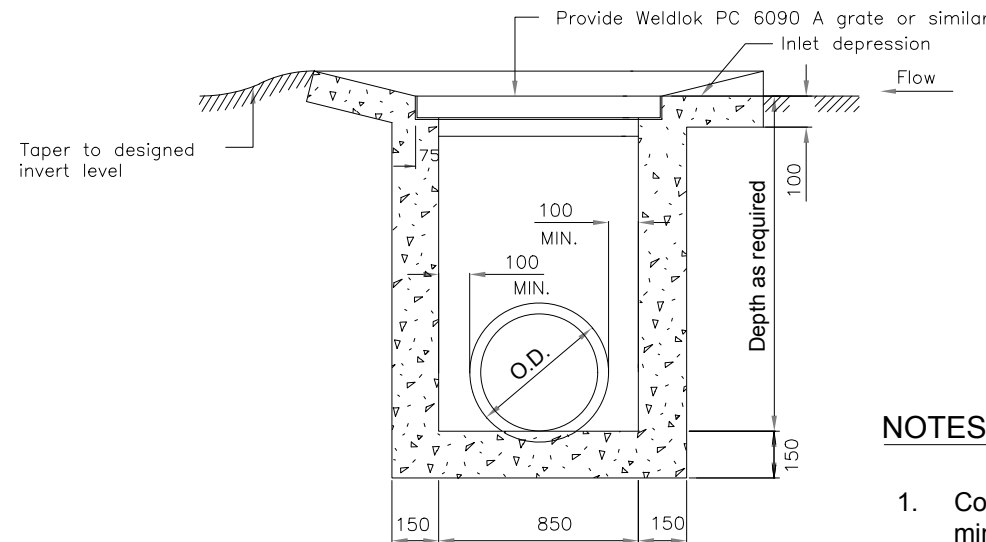
1. Compressive strength F'c for cast insitu concrete to be min N32 to AS 3600
2. All dimensions in millimetres
3. Rods at 100 centres, placed longitudinally and transversely; or F81 mesh. Return mesh 300mm into base and sides, or starter bars to match wall reinforcement.
4. Location and level of junction box shown in the drawings refer to this point: ●
5. Side walls of all pits deeper than 1500mm are to be reinforced with one layer of RL1218 mesh. Return mesh 300mm into base and sides, or starter bars to match wall reinforcement.
6. Depth of pit not to exceed 3500mm
7. Pits deeper than 1200mm to be fitted with galvanised step irons at 300mm centres. See ASD 300
8. All exposed edges to be rounded with 200mm radius
9. At right angle change in pipe direction outlet invert to be 150 below inlet invert
10. All reinforcement laps to be 300mm long
11. Minimum cover of reinforcement shall be 50 unless shown otherwise.

This plan has been adopted from the plan produced by the Roads and Maritime Services NSW (RMS). Drawing Number R0220-29. REFER TO CURRENT EQUIVALENT EDITION BEFORE USE .

SURVEYED OFFICER: DATE: SURVEY MARKS:	LIST OF REVISIONS REV. DATE OFFICER	AMENDMENT DETAILS 	APPROVED - Manager Subdivision Development DATE: 21 NOVEMBER 2019		SERVICES Gas: --- G --- Electricity: --- E --- Water: --- W --- Sewer: --- S --- TelComm Local Cable: --- T --- TelComm Major or Optic Fibre: --- MOF ---	ADMINISTRATION CENTRE SHELLHARBOUR CIVIC CENTRE 76 CYGNET AVENUE (Cnr Cygnet & College Avenue) POSTAL ADDRESS Locked Bag 155 SHELLHARBOUR CITY CENTRE NSW 2529 PH: (02) 4221 6111 FAX: (02) 4221 6016 DX26402 SHELLHARBOUR CITY CENTRE	PLAN DETAILS SCC STANDARD DRAWING STANDARD JUNCTION PIT		FILE:	REVISION A
			DESIGNED: DATE:	SEDIMENT AND EROSION CONTROL Provide sediment and erosion control measures in accordance with the 'Erosion & Sediment Control' guide by the NSW Office of Environment & Heritage			PLAN No: ASD 313	SHEET:		

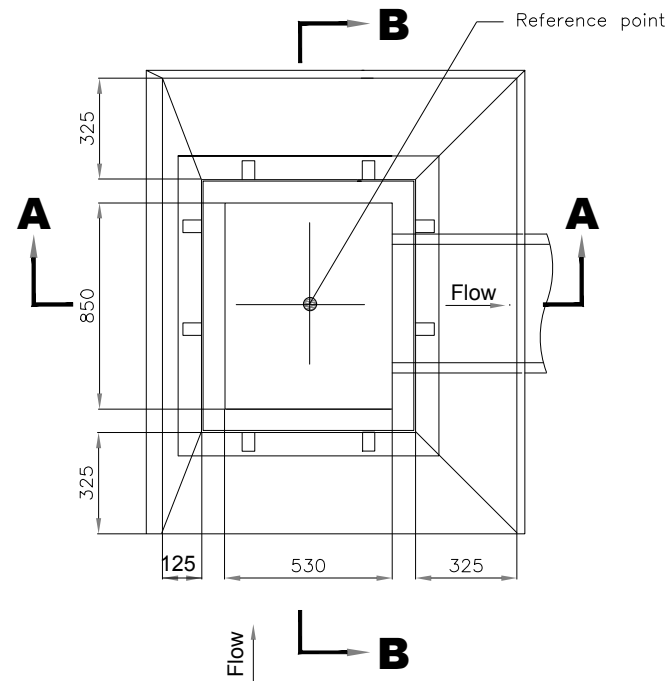


SECTION A-A



Note: Subsoil Drain 3m long at each inlet pit.

SECTION B-B



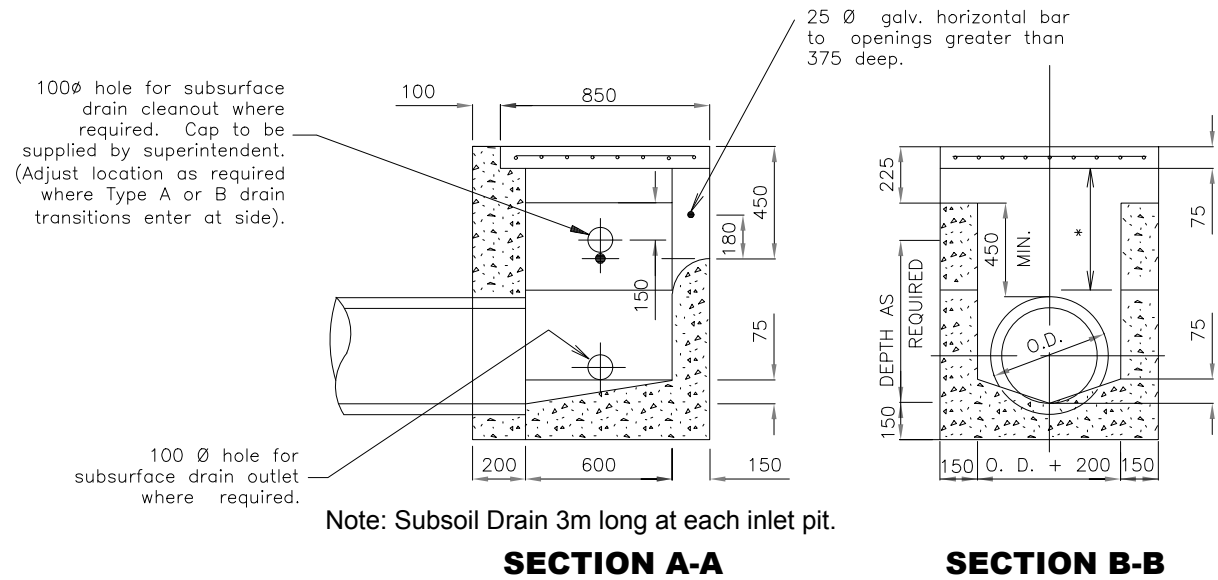
PLAN (GRATE REMOVED)

NOTES:

1. Compressive strength F'c for cast insitu concrete to be min N32 to AS 3600
2. All dimensions in millimetres
3. Where pit is located in a sag, inlet depressions are to be provided on both sides of the pit
4. Location and level of grated surface inlet pit shown in the drawings refer to this point: ●
5. Side walls of all pits deeper than 1500mm are to be reinforced with one layer of SL82 mesh. Return mesh 300mm into base and sides, or starter bars to match wall reinforcement.
6. Depth of pit not to exceed 3500mm
7. Pits deeper than 1200mm to be fitted with step irons at 300mm centres. See ASD 300
8. All exposed edges to be rounded with 200mm radius
9. All reinforcement laps to be 300mm long
10. Minimum cover of reinforcement shall be 50 unless shown otherwise

This plan has been adopted from the plan produced by the Roads and Maritime Services NSW (RMS). Drawing Number R0220-27. REFER TO CURRENT EQUIVALENT EDITION BEFORE USE .

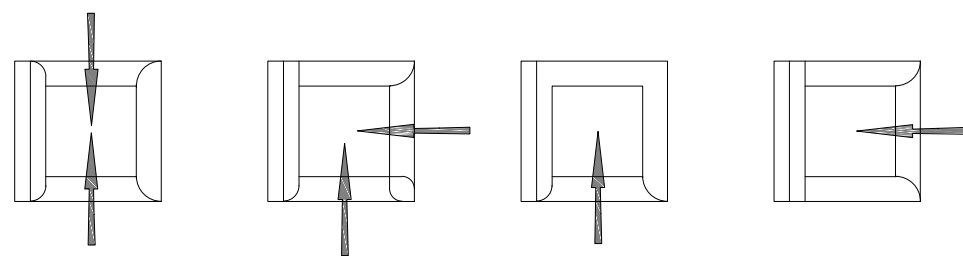
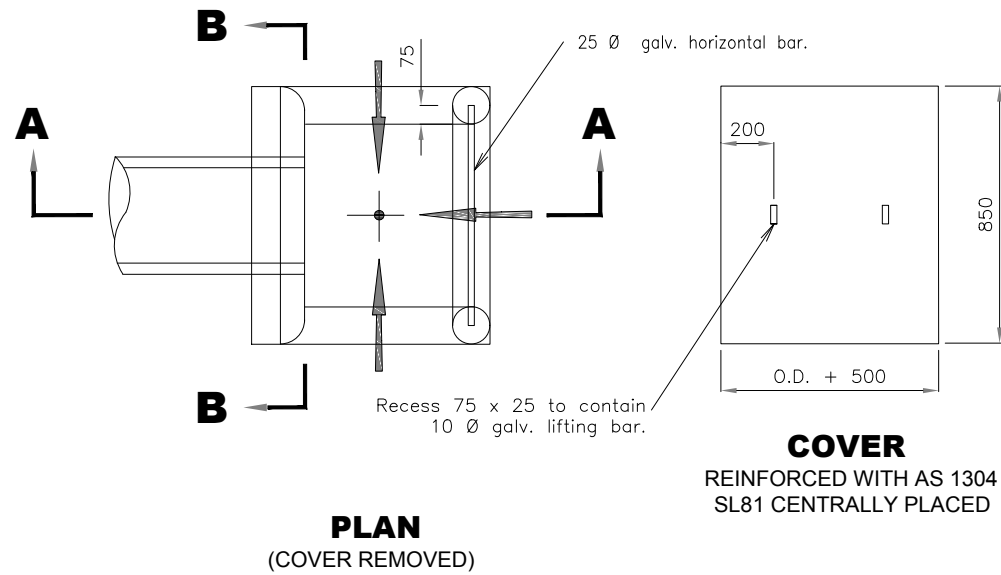
SURVEYED OFFICER: _____ DATE: _____ SURVEY MARKS: _____	LIST OF REVISIONS REV. DATE OFFICER _____ _____ _____ _____ _____ _____	AMENDMENT DETAILS _____ _____ _____ _____	APPROVED - Manager Subdivision Development DATE: 21 NOVEMBER 2019		SERVICES Gas: --- G --- Electricity: --- E --- Water: --- W --- Sewer: --- S --- TelComm Local Cable: --- T --- TelComm Major or Optic Fibre: --- MOF ---	 ADMINISTRATION CENTRE SHELLHARBOUR CIVIC CENTRE 76 CYGNET AVENUE (Cnr Cygnet & College Avenue) POSTAL ADDRESS Locked Bag 155 SHELLHARBOUR CITY CENTRE NSW 2529 PH: (02) 4221 6111 FAX: (02) 4221 6016 DX26402 SHELLHARBOUR CITY CENTRE	PLAN DETAILS		FILE: _____	REVISION		
			DESIGNED: _____ DATE: _____				SEDIMENT AND EROSION CONTROL Provide sediment and erosion control measures in accordance with the 'Erosion & Sediment Control' guide by the NSW Office of Environment & Heritage	SCC STANDARD DRAWING CAST IN-SITU GRATED SURFACE INLET FOR CATCH DRAINS & TABLE DRAINS		PLAN No:	ASD 314	SHEET:
			DRAWN: _____ DATE: _____							A		



NOTES:

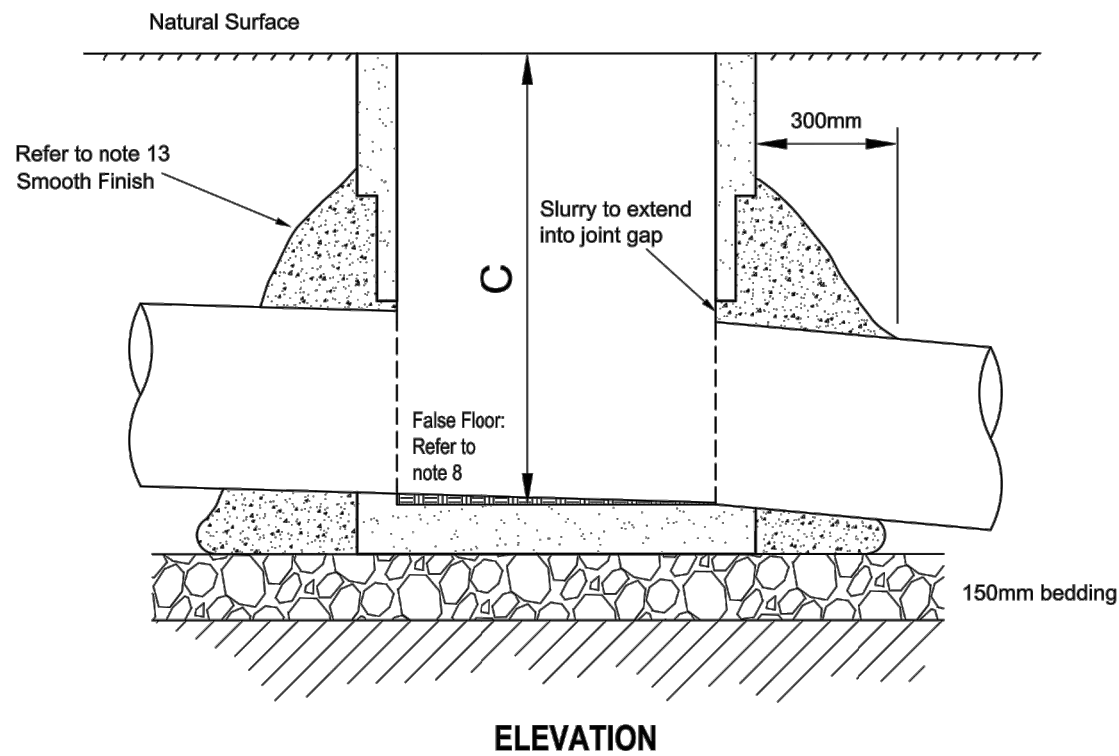
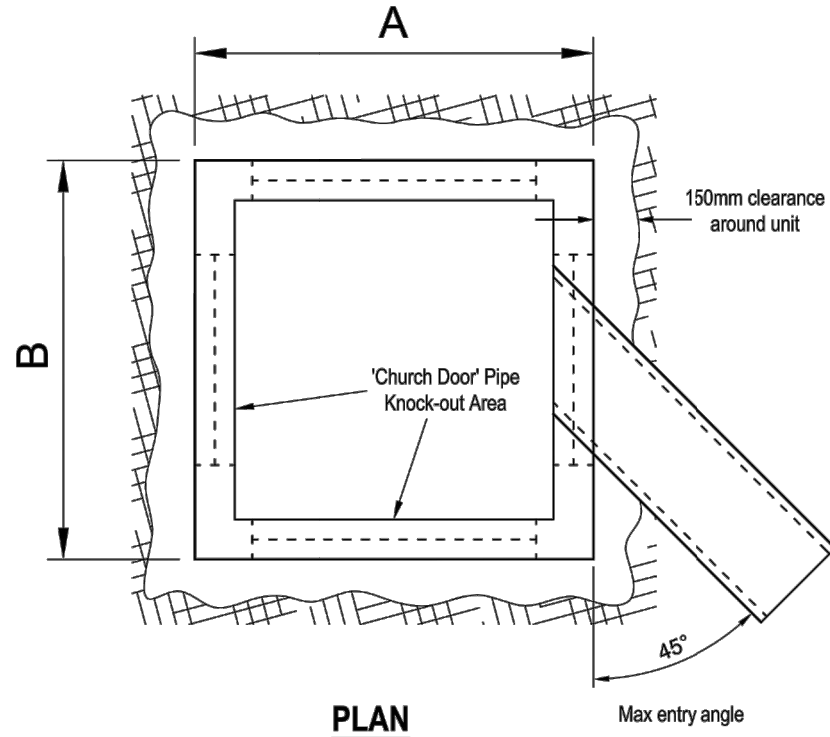
1. Compressive strength F'c for cast insitu concrete to be min N32 1. to AS3600.
2. All dimensions in millimetres unless otherwise shown.
3. Location and level of surface inlet pit shown in the drawings refer to this point : ●
4. Side walls of all pits deeper than 1500mm are to be reinforced with one layer of SL82 mesh. Return mesh 300mm into base and sides, or starter bars to match wall reinforcement.
5. Depth of pit not to exceed 3500mm. All exposed edges to be rounded with 200mm radius.
6. All reinforcement laps to be 300mm long.
7. Minimum cover of reinforcement shall be 50 unless shown otherwise.
8. Where pit is deeper than 1200mm provide step Irons. Refer to drawing ASD300 for Step Iron details.

This plan has been adopted from the plan produced by the Roads and Maritime Services NSW (RMS). Drawing Number R0220-37. REFER TO CURRENT EQUIVALENT EDITION BEFORE USE .



DETAIL OF ALTERNATE INLET ARRANGEMENT

SURVEYED OFFICER: DATE: SURVEY MARKS:	LIST OF REVISIONS REV. DATE OFFICER	AMENDMENT DETAILS	APPROVED - Manager Subdivision Development DATE: 21 NOVEMBER 2019		SERVICES LEGEND Gas: --- G --- Electricity: --- E --- Water: --- W --- Sewer: --- S --- TelComm Local Cable: --- T --- TelComm Major or Optic Fibre: --- MOF ---	ADMINISTRATION CENTRE SHELLHARBOUR CIVIC CENTRE 76 CYGNET AVENUE (Cnr Cygnet & College Avenue) POSTAL ADDRESS Locked Bag 155 SHELLHARBOUR CITY CENTRE NSW 2529 PH: (02) 4221 6111 FAX: (02) 4221 6016 DX26402 SHELLHARBOUR CITY CENTRE	PLAN DETAILS SCC STANDARD DRAWING SURFACE INLET PIT		FILE:	REVISION A
			DESIGNED: DATE:	SEDIMENT AND EROSION CONTROL Provide sediment and erosion control measures in accordance with the 'Erosion & Sediment Control' guide by the NSW Office of Environment & Heritage			LOCATIONS	PLAN No: ASD 315	SHEET:	



General

1. Precast concrete stormwater pits that are damaged with unacceptable defects shall be discarded.
2. Precast unit shall be finished design surface levels.

Excavation

3. All excavation must be 150mm clear of the precast unit and to manufacturer's requirements.

Assembly

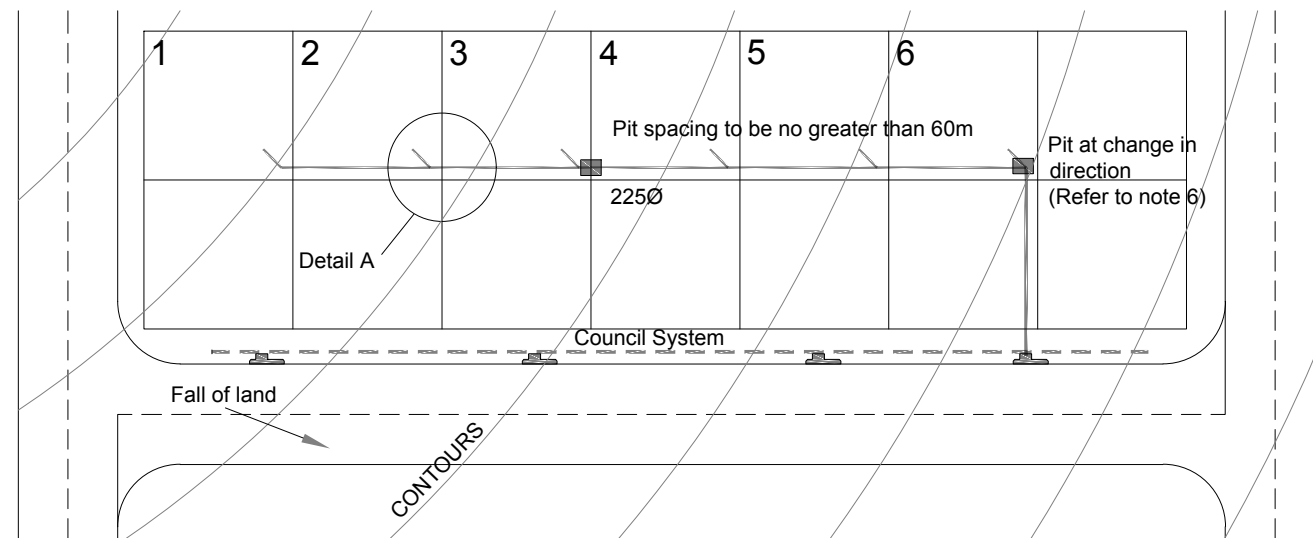
4. DO NOT oversize the knockout hole. Only the required size hole to accommodate the outside pipe diameter should be removed.
5. Nothing outside the prescribed knockout section is to be removed.
6. Pipes shall not enter the pit.
7. Pipes shall sit flush with the knockout ledge. Where the base of the pit is lower than pipe invert a false floor shall be poured. The floor shall be graded between upstream and downstream pipe inverts with a smooth finish.
8. For connection to subsoil drainage refer to ASD305. All subsoil drainage connections shall only be through the knockout section and then rendered in accordance with note 12.
9. Knockout section and then render in accordance with note 12. Within the knockout area. The knockout area width shall be the pipe horizontal skew dimensions.
10. The angle of entry shall be no less than 45 degrees. See table for maximum pipe size.
11. The jointing surface must be clean.
12. Pipe entry joints are to be rendered with an epoxy mortar to be smooth and free from intrusions and to ensure a watertight joint.
13. Concrete backfill (3:1 Sand /cement mortar) shall surround the pipe inlet and outlet to form a bell-housing effect with a smooth finish
14. Step irons at 300 centres required in pits greater than 1200mm deep. Unused step iron holes to be rendered. Refer drawing ASD300 for Step Iron details.

Backfilling

15. Backfilling around external faces of the precast unit to be selected material, in accordance with C220.08, added in 150mm layers and compacted simultaneously around the structure to avoid differential loading.

Max pipe size for 45° entry angle	
A x B x C	Pipe
450 x 450 x 450	None
600 x 600 x 600	225mm Ø
600 x 600 x 750	225mm Ø
900 x 750 x 600	225mm Ø
900 x 900 x 600	225mm Ø
900 x 750 x 900	375mm Ø
900 x 900 x 900	375mm Ø
900 x 900 x 1200	375mm Ø
1200 x 1200 x 1200	525mm Ø

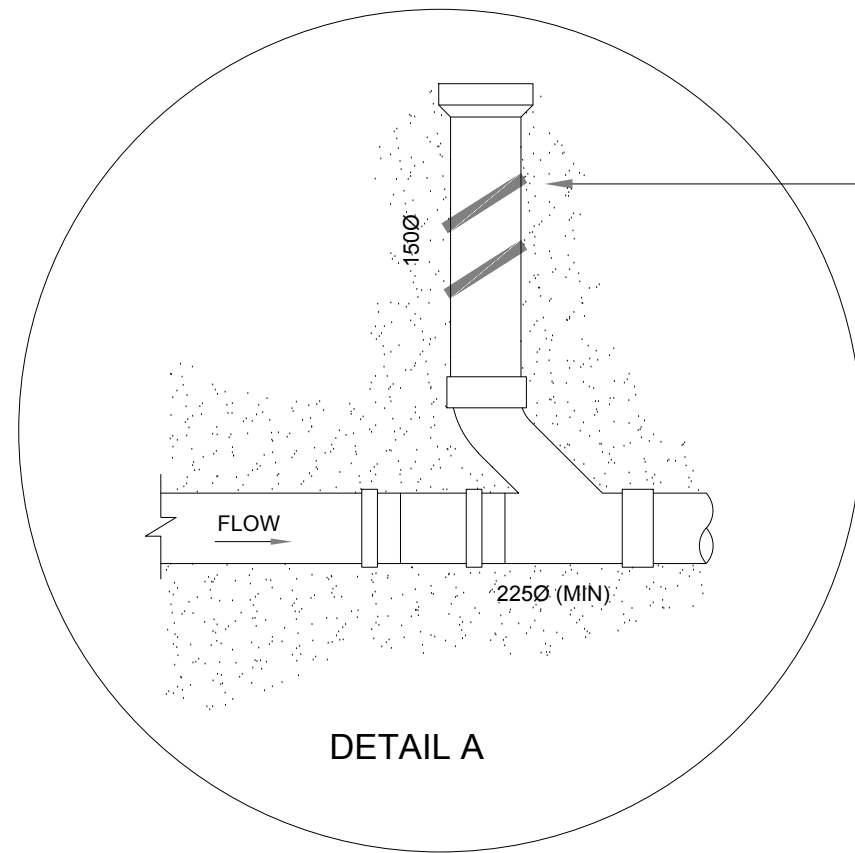
SURVEYED OFFICER: DATE: SURVEY MARKS:	<table border="1" style="width: 100%; border-collapse: collapse;"> <thead> <tr> <th>REV.</th> <th>DATE</th> <th>OFFICER</th> </tr> </thead> <tbody> <tr><td> </td><td> </td><td> </td></tr> <tr><td> </td><td> </td><td> </td></tr> <tr><td> </td><td> </td><td> </td></tr> <tr><td> </td><td> </td><td> </td></tr> <tr><td> </td><td> </td><td> </td></tr> <tr><td> </td><td> </td><td> </td></tr> <tr><td> </td><td> </td><td> </td></tr> <tr><td> </td><td> </td><td> </td></tr> <tr><td> </td><td> </td><td> </td></tr> <tr><td> </td><td> </td><td> </td></tr> </tbody> </table>	REV.	DATE	OFFICER																															AMENDMENT DETAILS	APPROVED - Manager Subdivision Development DATE: 21 NOVEMBER 2019	<table border="1" style="width: 100%; border-collapse: collapse;"> <thead> <tr> <th>DESIGNED:</th> <th>DATE:</th> </tr> </thead> <tbody> <tr> <td> </td> <td> </td> </tr> <tr> <th>DRAWN:</th> <th>DATE:</th> </tr> <tr> <td> </td> <td> </td> </tr> </tbody> </table>	DESIGNED:	DATE:			DRAWN:	DATE:			<table border="1" style="width: 100%; border-collapse: collapse;"> <thead> <tr> <th>LOCATIONS</th> <th>SERVICES</th> <th>LEGEND</th> </tr> </thead> <tbody> <tr> <td rowspan="5">Services shown are those known to exist at date of design. Prior to commencement of excavation contact the relevant gas, electricity, water and telecommunications service providers, including the RMS, for most recent service locations and precautions that may be necessary</td> <td>Gas:</td> <td>— G —</td> </tr> <tr> <td>Electricity:</td> <td>— E —</td> </tr> <tr> <td>Water:</td> <td>— W —</td> </tr> <tr> <td>Sewer:</td> <td>— S —</td> </tr> <tr> <td>TelComm Local Cable:</td> <td>— T —</td> </tr> <tr> <td>TelComm Major or Optic Fibre:</td> <td>— MOF —</td> </tr> </tbody> </table>	LOCATIONS	SERVICES	LEGEND	Services shown are those known to exist at date of design. Prior to commencement of excavation contact the relevant gas, electricity, water and telecommunications service providers, including the RMS, for most recent service locations and precautions that may be necessary	Gas:	— G —	Electricity:	— E —	Water:	— W —	Sewer:	— S —	TelComm Local Cable:	— T —	TelComm Major or Optic Fibre:	— MOF —	ADMINISTRATION CENTRE SHELLHARBOUR CIVIC CENTRE 76 CYGNET AVENUE (Cnr Cygnet & College Avenue) POSTAL ADDRESS Locked Bag 155 SHELLHARBOUR CITY CENTRE NSW 2529 PH: (02) 4221 6111 FAX: (02) 4221 6016 DX26402 SHELLHARBOUR CITY CENTRE	<h2 style="margin: 0;">PLAN DETAILS</h2> <h1 style="margin: 0;">SCC STANDARD DRAWING</h1> <h1 style="margin: 0;">PRECAST PIT INSTALLATION</h1>	FILE: PLAN No: <h2 style="margin: 0;">ASD 316</h2>	REVISION <h2 style="margin: 0;">A</h2>
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PLAN

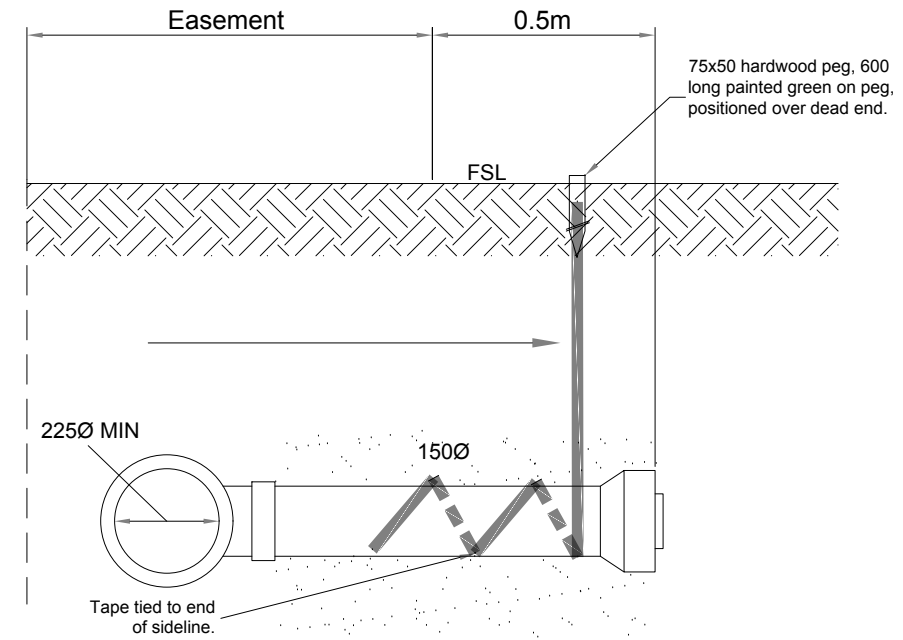
NOTES

1. All dimensions are in millimetres.
2. Locate inspection openings in accordance with design drawings or Council requirements.
3. All connection types shown in this drawing are applicable to PVC (RRJ) pipes unless otherwise shown.
4. Property connection riser is part of the private stormwater service unless specified otherwise.
5. The maximum number of allotments connected to any interallotment system shall not exceed 6
6. Pit shall be in accordance with SCC standard drawing ASD313 (Min 600 x 600 internal dimensions)
7. Pits shall be constructed at all changes in direction and the distance between pits shall be no greater than 60m



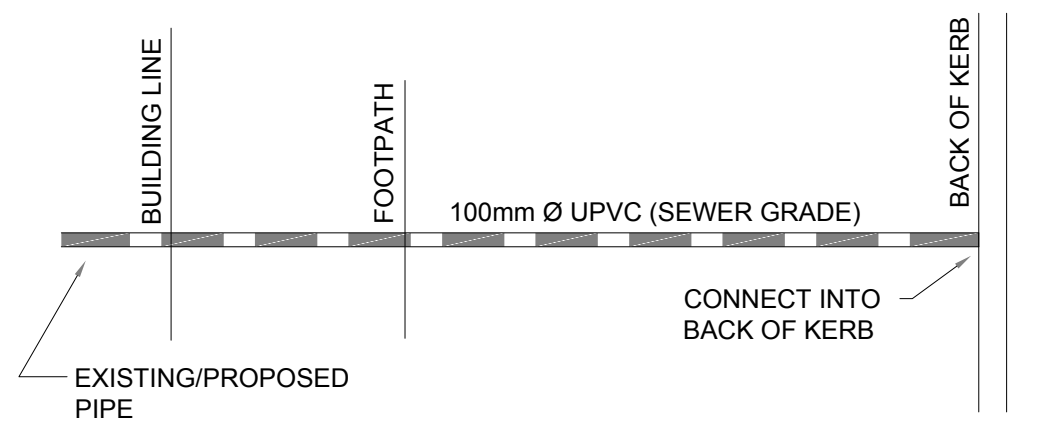
DETAIL A

75mm wide polyethylene tape coloured green, inscribed with "CAUTION BURIED STORMWATER LINE" printed in heavy black letters.

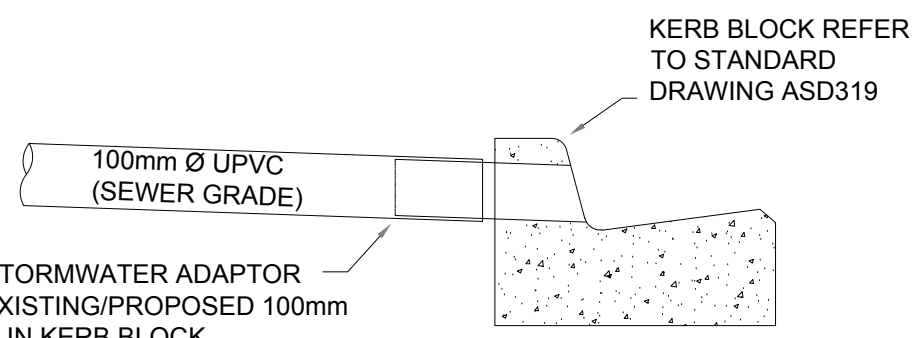


ELEVATION

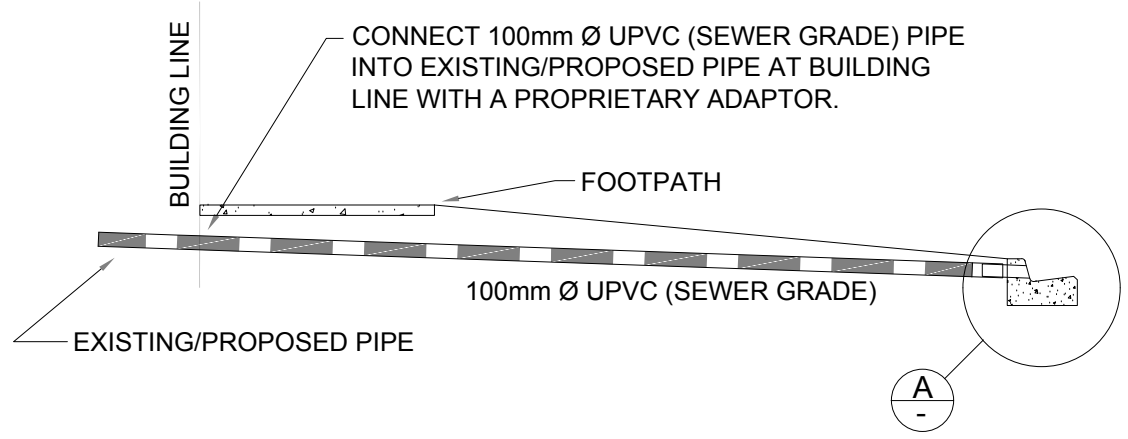
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				DESIGNED: DATE: DRAWN: DATE:		SEDIMENT AND EROSION CONTROL Provide sediment and erosion control measures in accordance with the 'Erosion & Sediment Control' guide by the NSW Office of Environment & Heritage	PLAN No: ASD 317	SHEET:	



STANDARD PLAN

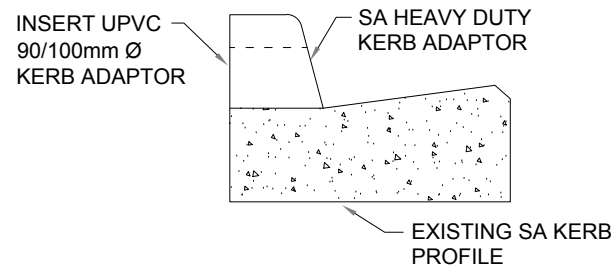


DETAIL **A**

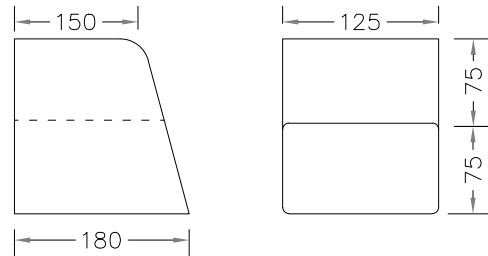
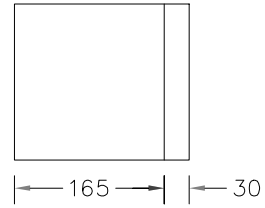


STANDARD SECTION

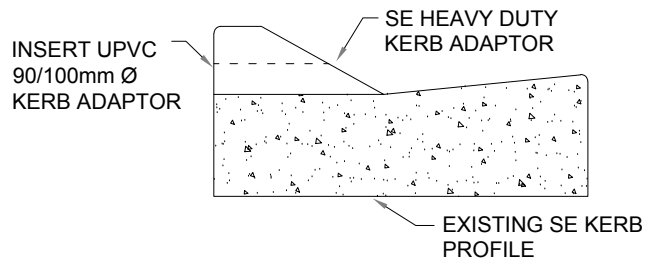
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			DESIGNED: DATE:	SEDIMENT AND EROSION CONTROL Provide sediment and erosion control measures in accordance with the 'Erosion & Sediment Control' guide by the NSW Office of Environment & Heritage			LOCATIONS Services shown are those known to exist at date of design. Prior to commencement of excavation contact the relevant gas, electricity, water and telecommunications service providers, including the RMS, for most recent service locations and precautions that may be necessary	PLAN No: ASD 318	SHEET:	



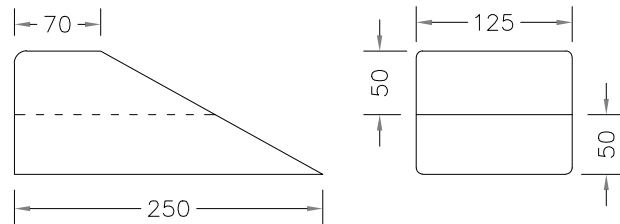
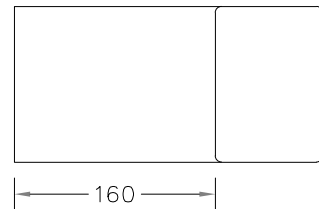
SA KERB WITH HEAVY DUTY KERB ADAPTOR SECTIONAL VIEW



SA HEAVY DUTY KERB ADAPTOR



SE KERB WITH HEAVY DUTY KERB ADAPTOR SECTIONAL VIEW



SE HEAVY DUTY KERB ADAPTOR

NOTE:

1. All heavy duty kerb adaptors are to be constructed from 125x75x3mm mild steel
2. All mild steel must be hot dipped galvanised before installation
3. The heavy duty kerb adaptors require a UPVC kerb adaptor to be inserted inside
4. Both kerb adaptors must be grouted in place to stop movement.
5. Where the existing connection point is not available in either normal kerb and gutter or roll type kerb and gutter, the kerb must be saw cut to provide for the connection of the pipe. The saw cut must ensure that a minimum of 50mm cover is available on all 3 sides of the pipe to permit adequate strength and thickness for the concrete finish. The kerb and gutter connection must be a 100mm diameter galvanised steel circular for 150mm kerb and gutter or a 150mm x 150mm galvanised rectangular steel section for roll kerb ensuring that the galvanised section is fully encased by concrete.

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DRAWN:	DATE:										