Federation Council Standard Drawing Index

## Series 200 - Drainage

SD 200 - Side Entry Details - to suit Barrier & Roll Over Type Kerb

SD 201 - Side Entry Cover Details

SD 202 - Grated Gully Pit Details - Double Grated Gully Pit & Extended Double Grated Gully Pit

SD 203 - Grates & Frames - for Grated Gully Pits

SD 204 - Grated Pit Details

SD 205 - Junction Pit Details

SD 206 - Rural Letterbox Pit - 900mm x 600mm

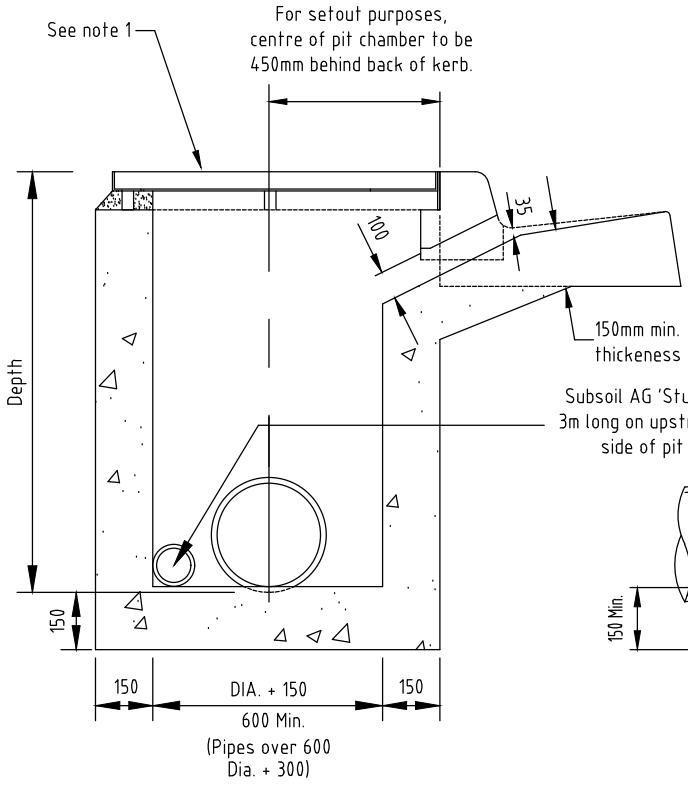
SD 207 - Grated Catch Pit - for use in Paved Areas

SD 208 - Grated Catch Pit - for use in Paved Areas

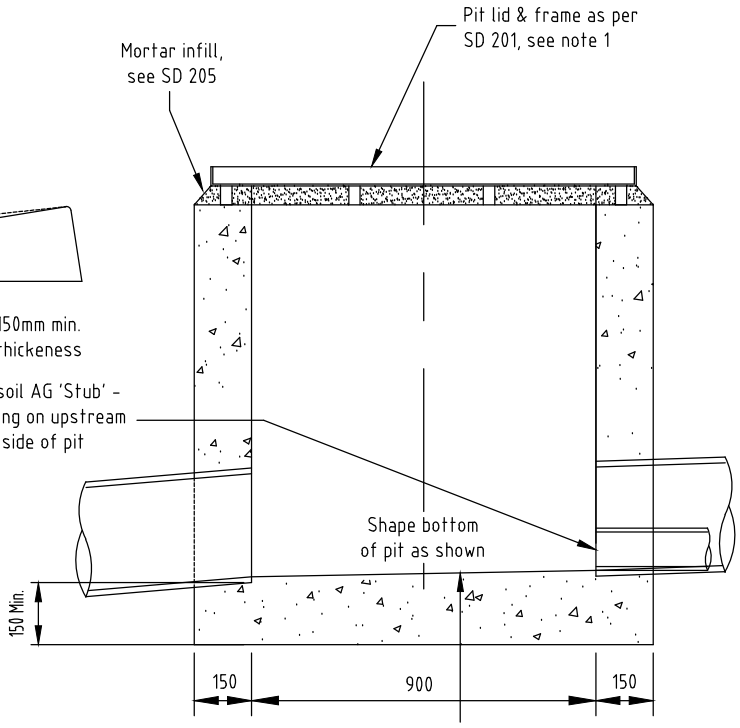
SD 209 - Pipeline Anchor Block

SD 210 - Pipeline Trench Detail

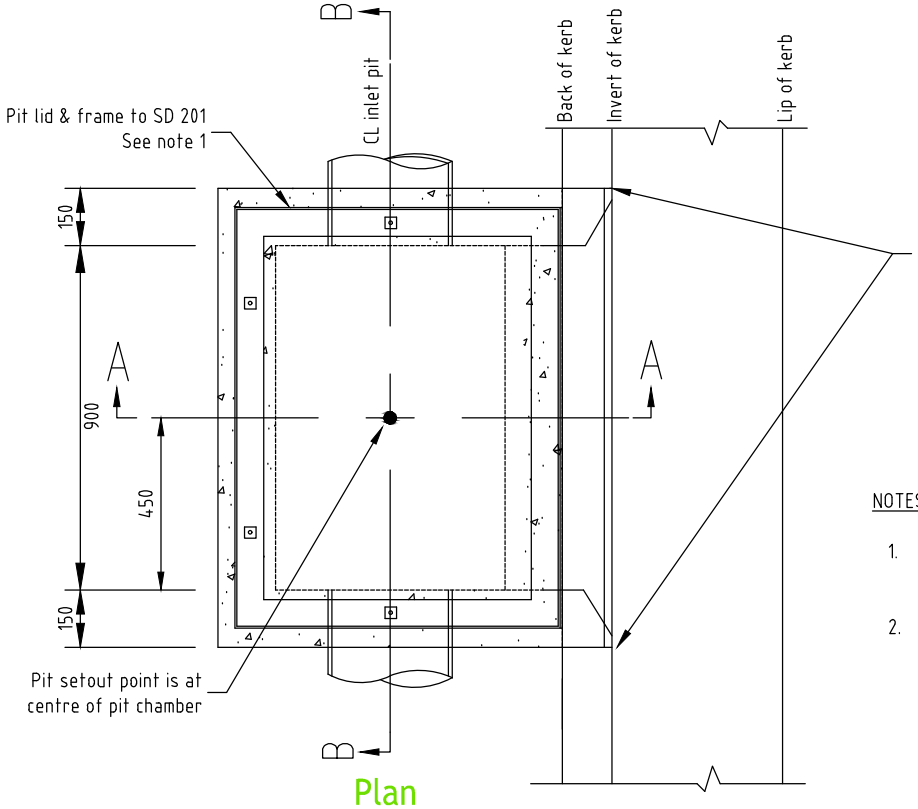
SD 211 - Property House Connections - for Connection to Kerb, Swale & Pipe Network




Section A-A
Scale 1:20




Section B-B
Scale 1:20




Plan
Scale 1:20

NOTES:

1. Pit cover and surround to be Gatic cover side entry type 312C or 313C.
2. All measurements in millimetres unless otherwise stated.

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Standard Drawing

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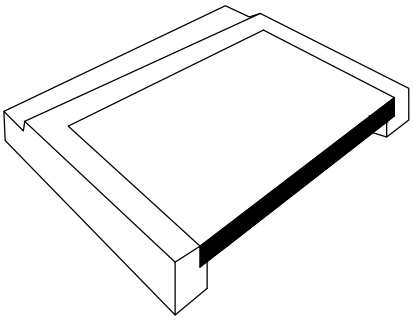
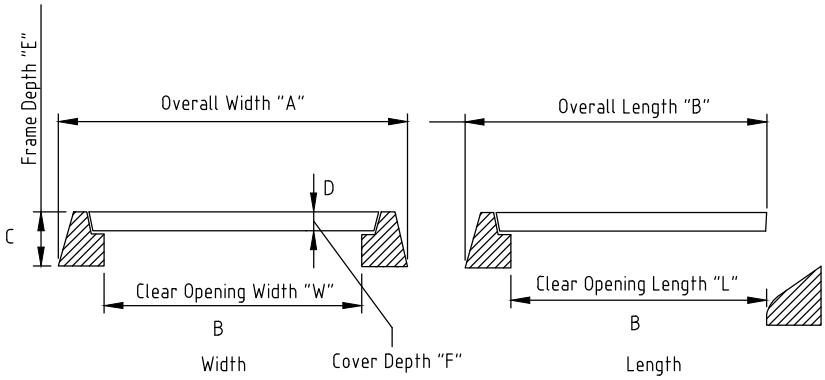
FILE PATH: A4
N:_Design Manual\Federation Council Standard Drawings & Development Guidelines\Standard Drawings\200 SERIES - DRAINAGE\200 SERIES.dwg

# SIDE ENTRY PIT DETAILS
## TO SUIT BARRIER & ROLL OVER TYPE KERB

SD200

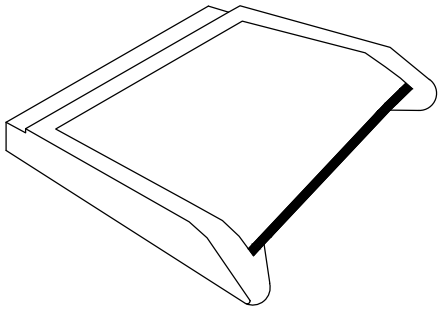
REV A

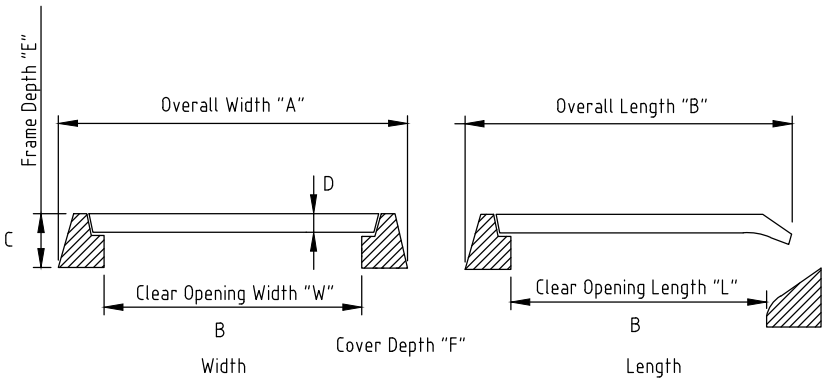





| Clear Opening (mm) W x L | AS 3996 Class Rating | Functional Dimension (mm) | | | |
|---|---|---|---|---|---|
| | | A | B | C | D |
| 914 x 610 | B | 1168 | 941 | 152 | 50 |

## Side Entry Cover - Extended Back






| Clear Opening (mm) W x L | AS 3996 Class Rating | Functional Dimension (mm) | | | |
|---|---|---|---|---|---|
| | | A | B | C | D |
| 914 x 750 | B | 1168 | 1154 | 152 | 50 |

## Side Entry Cover - Rollover

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Standard Drawing

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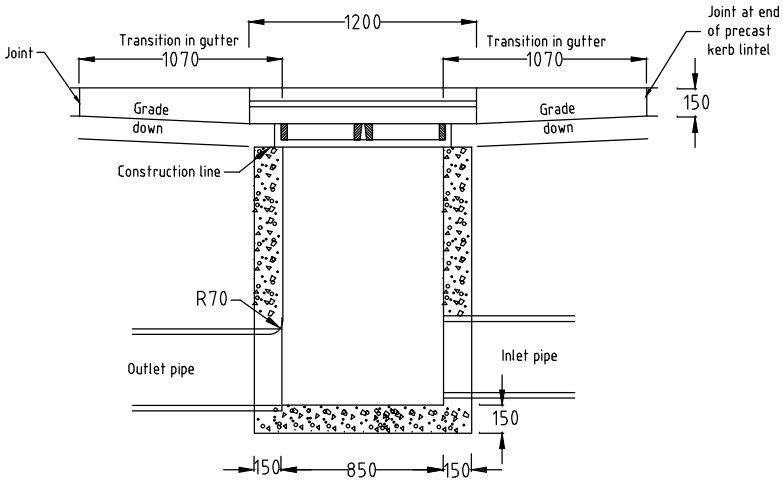
A4

# SIDE ENTRY COVER DETAILS

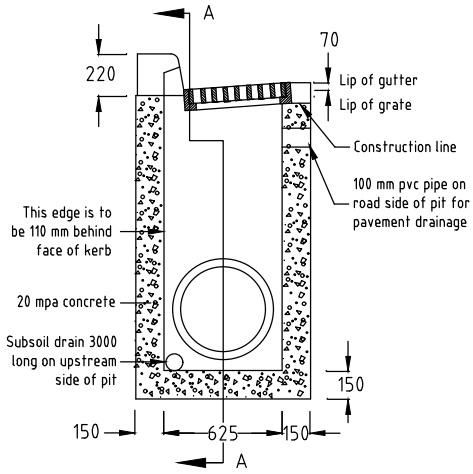
FOR PITS TO SUIT BARRIER & ROLL OVER TYPE KERB

SD201

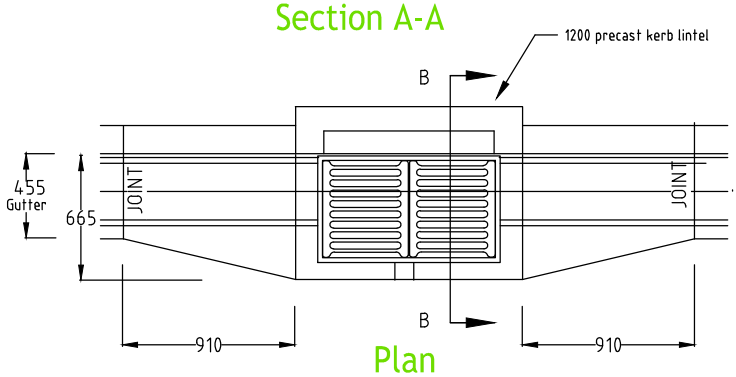
REV A



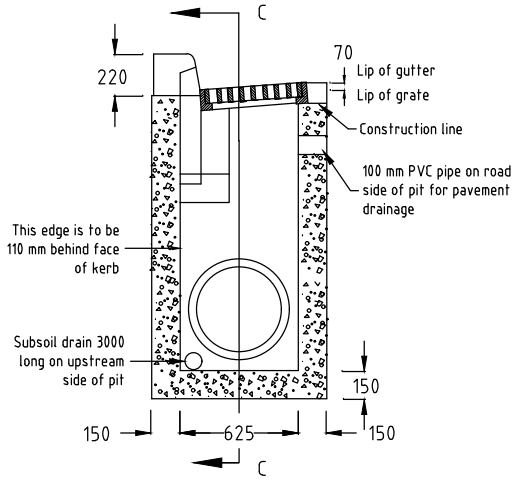

Section A-A



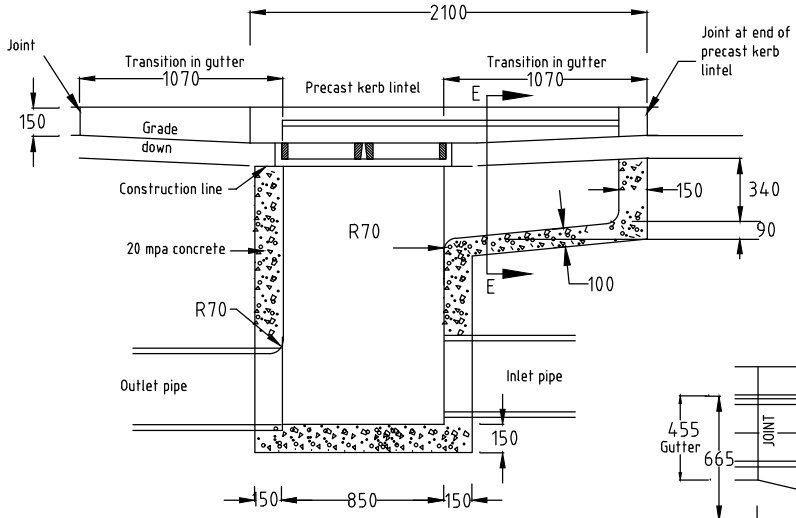

Section B-B



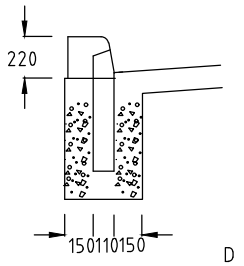

Plan
Double Grated Gully Pit



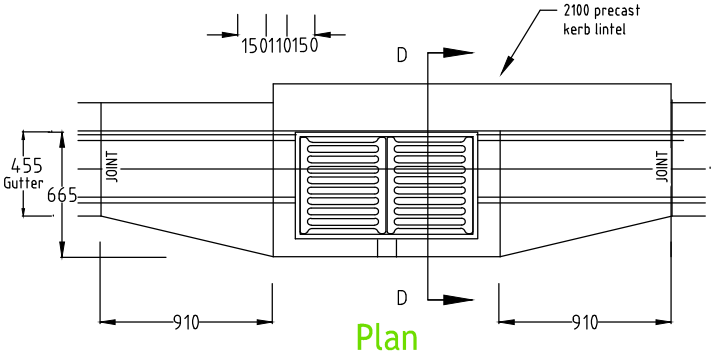

Section D-D




Section C-C




Section E E




Plan
Extended Double Grated Gully Pit

NOTES:

1. Extended double grated gully pits are to be used on kerbs with longitudinal grades exceeding 4% and at low points in sag curves.
2. Standard grates and frames are to be used in positions of low risk to cyclists.
3. Standard bicycle safe grates are to be used along designated cycle paths and in positions of high risk
4. For new double grated gully pits where 'gatic bicycle safe grates' are required, gully pits are to have 'gatic' grate frames installed
5. For existing double grated gully pits, standard grates are to be replaced by bicycle safe grates, the bicycle safe grates are to be fitted into the existing standard grate frame by grinding down the lugs on the grates to an extent necessary for them to fit into the frames.
6. Concrete strength for pits to be min 20MPa
7. Concrete slump for pits to be 75 mm.

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Standard Drawing

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FILE PATH: A4
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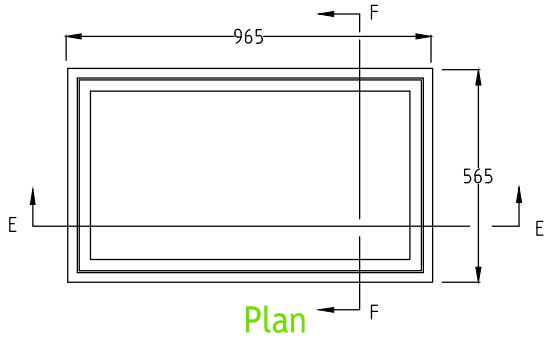
# GRATED GULLY PIT DETAILS

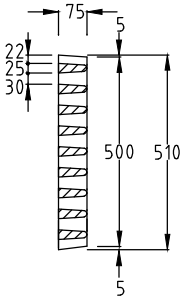
## DOUBLE GRATED GULLY PIT & EXTENDED DOUBLE GRATED GULLY PIT

SD202

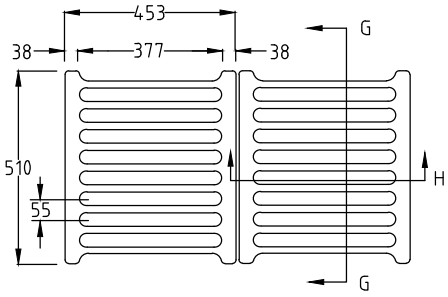
REV A

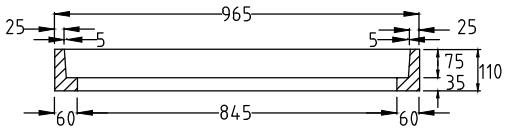



Plan

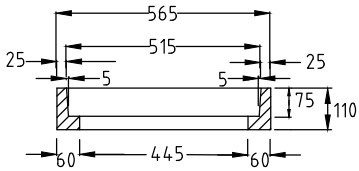



Section G-G

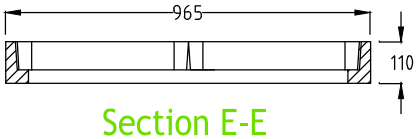


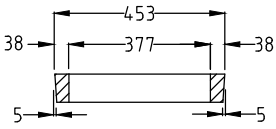

Section E-E




Section F-F

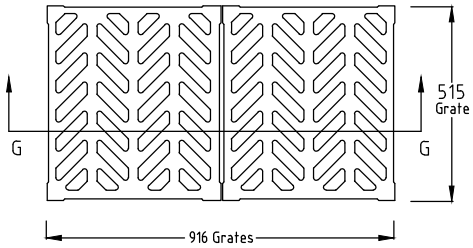



Section E-E
(with grates)

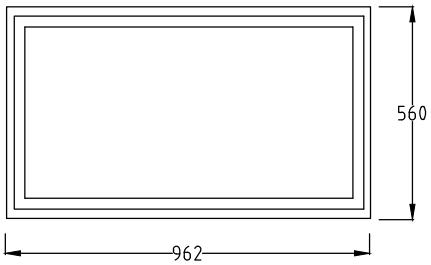



Section H-H

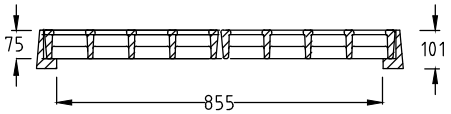
Standard
Double Grate
and Frame




Grates




Frame




Section G G

NOTES:

1. Standard grates and frames are to be used in positions of low risk to cyclists.
2. Standard bicycle safe grates are to be used along designated cycle paths and in positions of high risk.
3. For new double grated gully pits where 'gatic bicycle safe grates' are required, gully pits are to have 'gatic' grate frames installed.
4. For existing double grated gully pits, standard grates are to be replaced by bicycle safe grates, the bicycle safe grates are to be fitted into the existing standard grate frames by grinding down the lugs on the grates to an extent necessary for them to fit into the frames.
5. All grates are to comply with AS3996.

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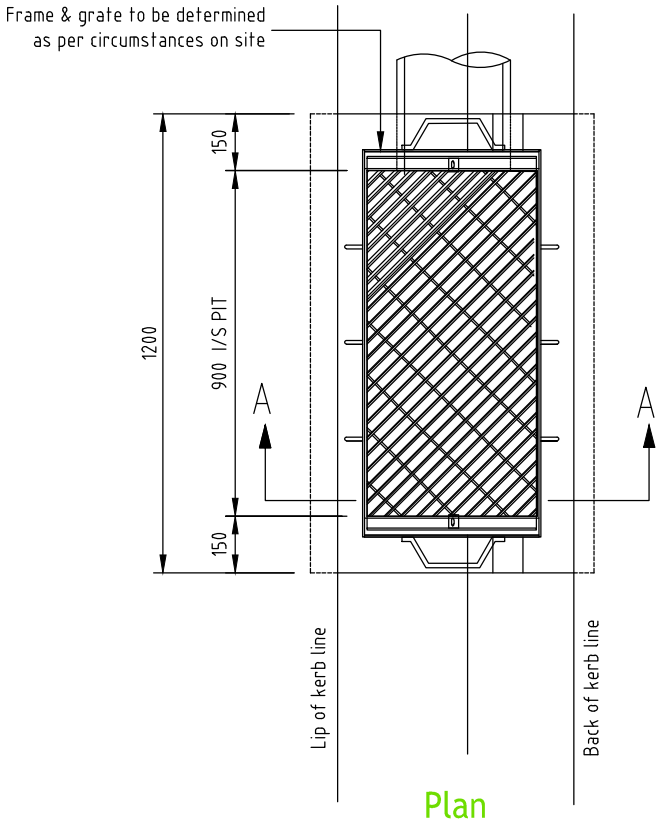
A4

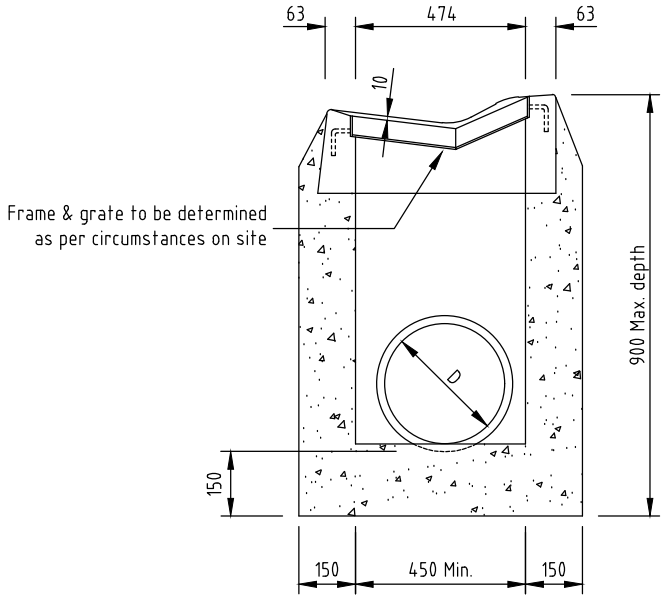
# GRATES AND FRAMES
## FOR GRATED GULLY PITS

SD203

REV A




Plan
Scale 1:20




Section A-A
Scale 1:20

NOTES:

1. 'D' denotes pipe sizes up to 375Ø max.
2. All measurements are in millimetres unless otherwise stated.

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Standard Drawing

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FILE PATH: A4
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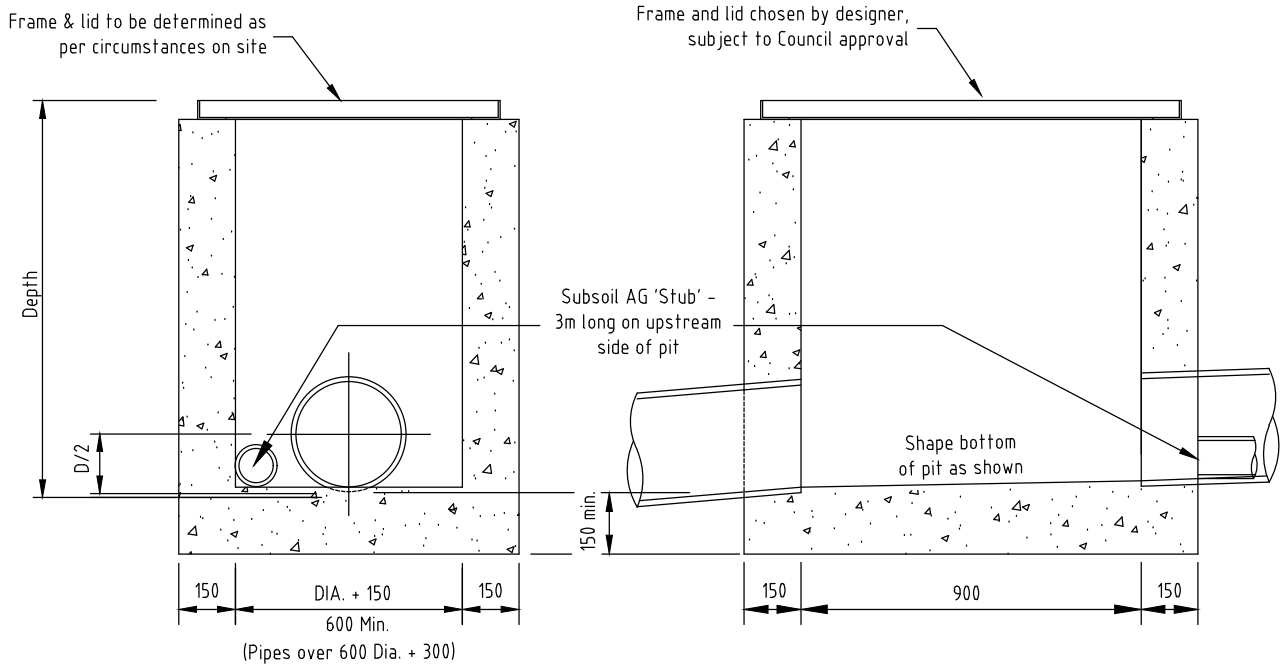
# GRATED PIT DETAILS
## TO SUIT ROLL OVER KERB & CHANNEL

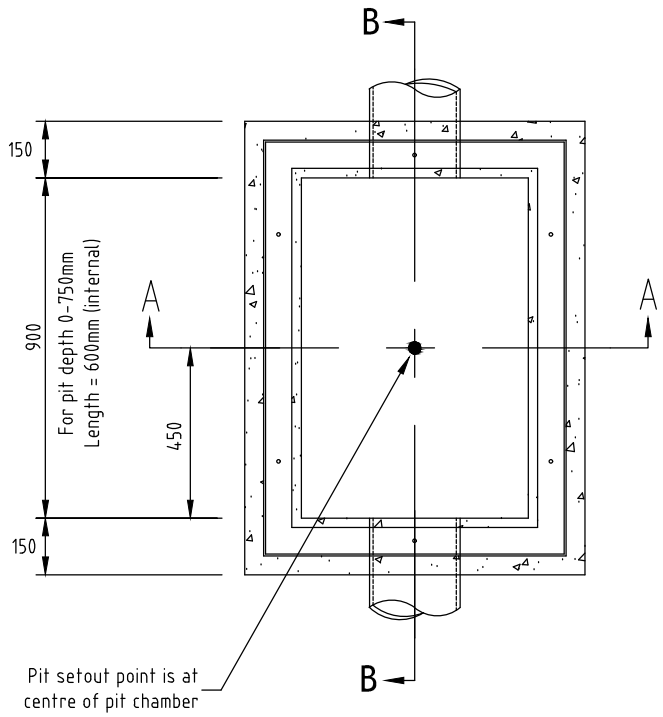
SD204

REV A




Section A-A
Scale 1:20

Section B-B
Scale 1:20




Plan
Scale 1:20

NOTES:

1. All measurements in millimetres unless otherwise stated.
2. Pit lid to be chosen based on circumstances in which it is to be utilised.

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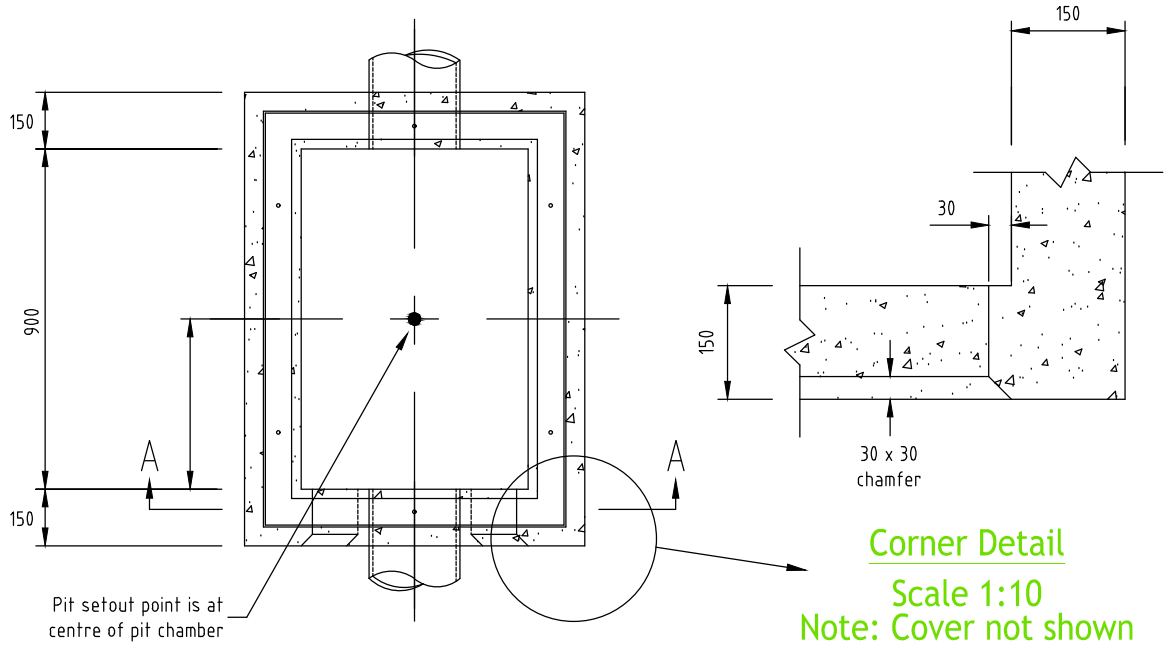
LAST UPDATED: 07/12/18

FILE PATH: A4
N:_Design Manual\Federation Council Standard Drawings & Development Guidelines\Standard Drawings\200 SERIES - DRAINAGE\200 SERIES.dwg

# JUNCTION PIT DETAILS

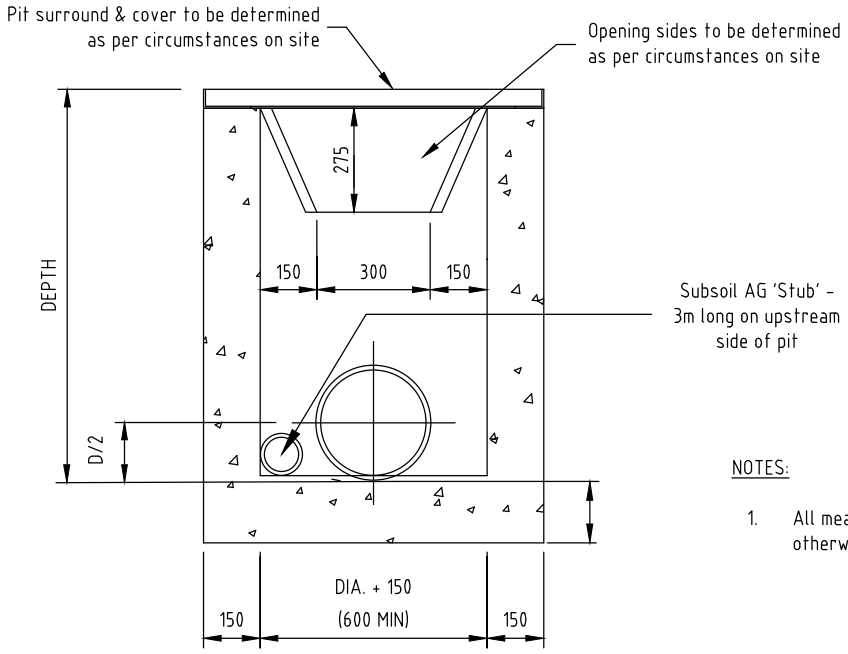
SD205

REV A




Corner Detail
Scale 1:10
Note: Cover not shown

Plan
Scale 1:20




Section A-A
Scale 1:20

NOTES:

1. All measurements in millimetres unless otherwise stated.

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Standard Drawing

LAST UPDATED: 07/12/18

FILE PATH: A4
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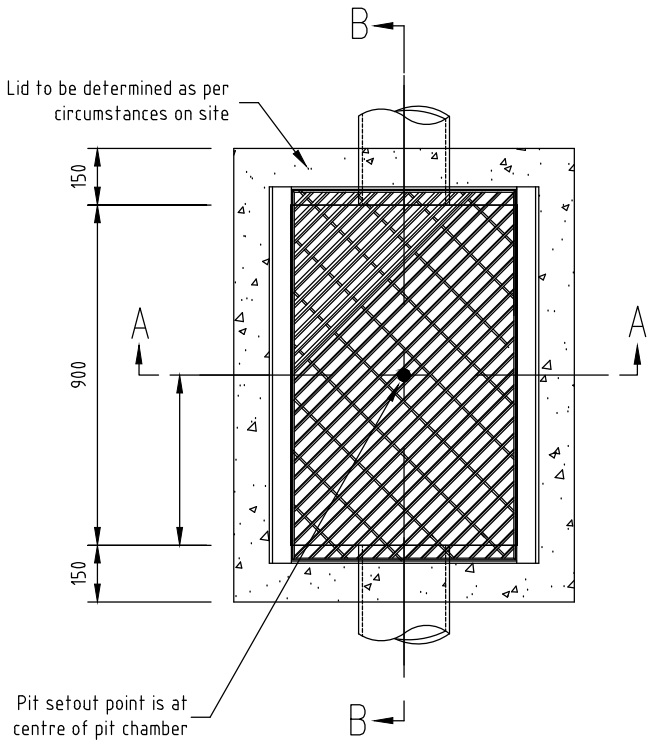
# RURAL LETTERBOX PIT

900mm X 600mm

SD206

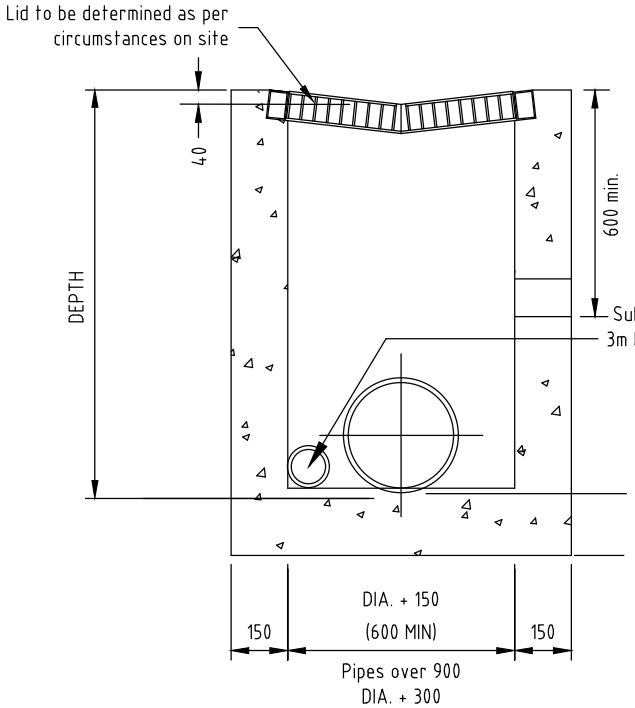
REV A



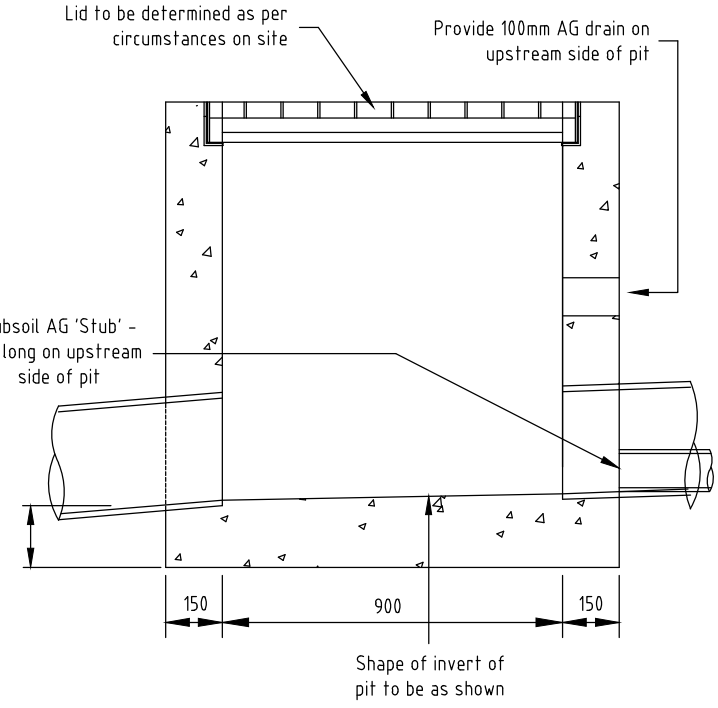

Plan
Scale 1:20

NOTES:

1. All measurements in millimetres unless otherwise stated.
2. Pit lid to be chosen based on situation in which it is to be utilised.




Section A-A
Scale 1:20




Section B-B
Scale 1:20

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Standard Drawing

LAST UPDATED: 07/12/18

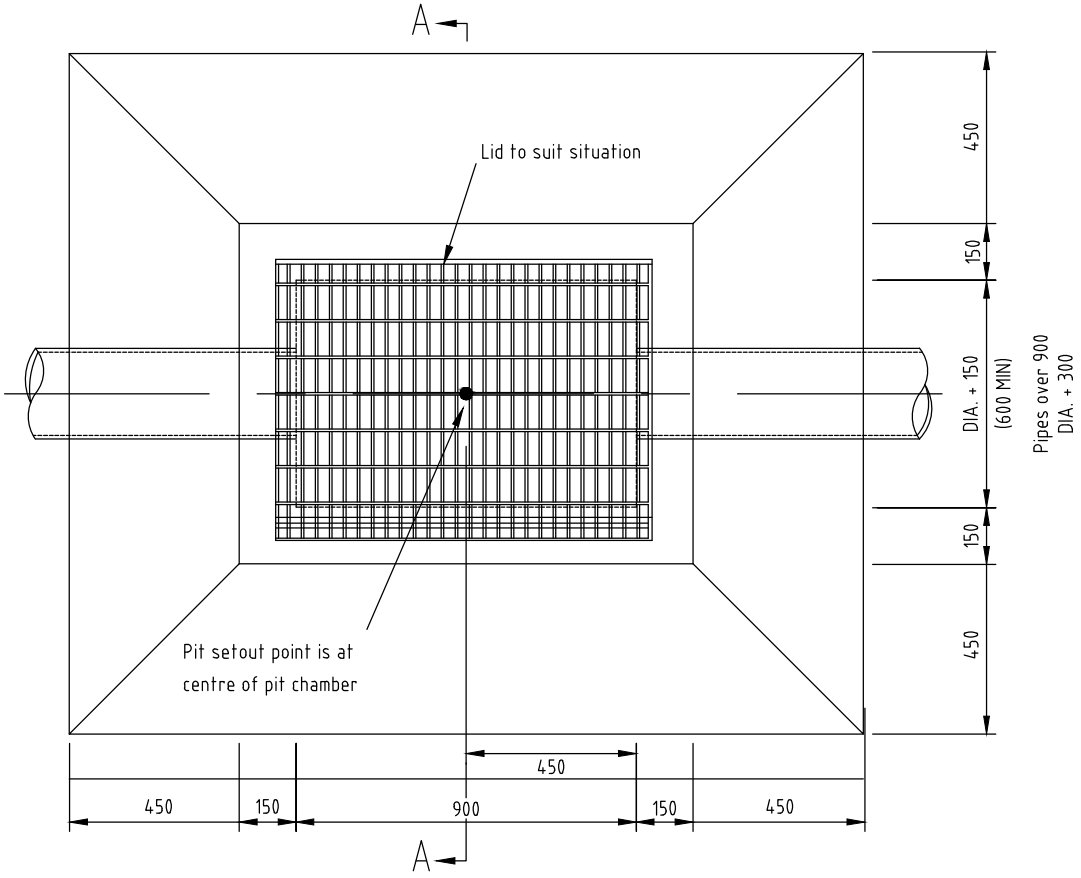
FILE PATH: A4
N:_Design Manual\Federation Council Standard Drawings & Development Guidelines\Standard Drawings\200 SERIES - DRAINAGE\200 SERIES.dwg

# GRATED CATCH PIT

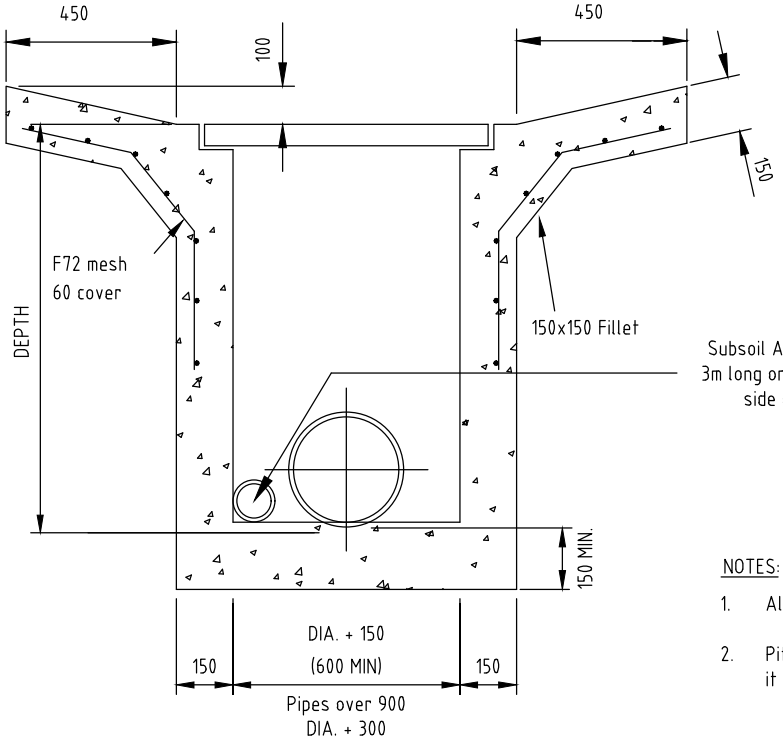
## FOR USE IN PAVED AREAS

SD207

REV A




Plan
Scale 1:20




Section A-A

NOTES:

1. All measurements in millimetres unless stated
2. Pit lid to be chosen based on situation in which it is to be utilised.

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Standard Drawing

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FILE PATH: A4
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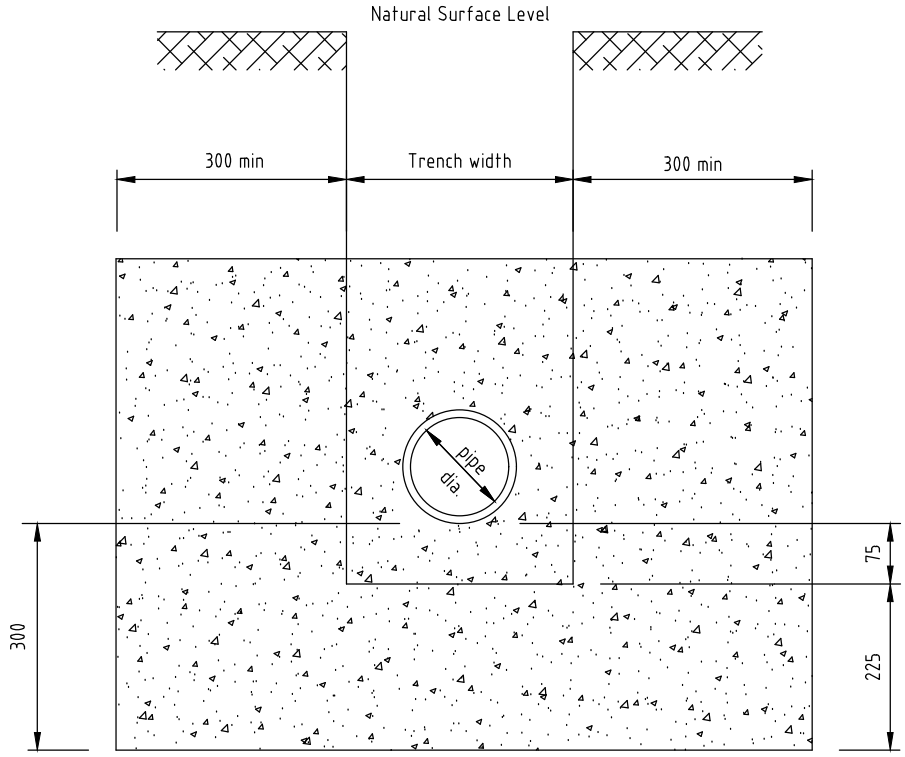
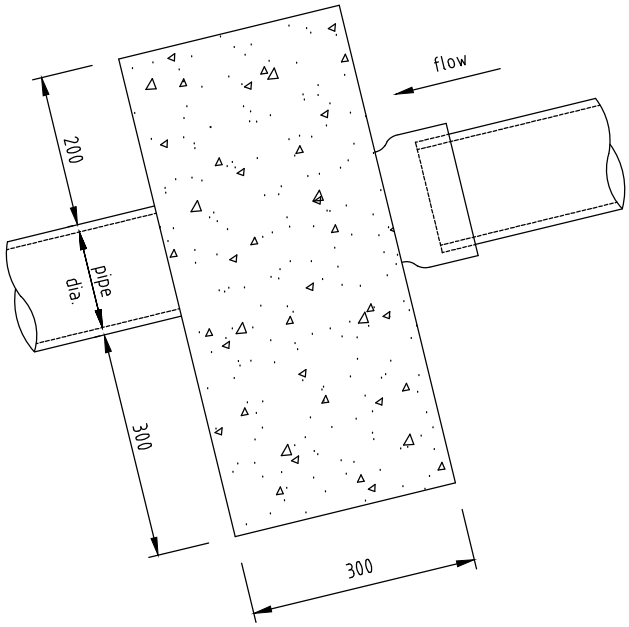
# GRATED CATCH PIT
## FOR USE IN PAVED AREAS

SD208

REV A




Front Elevation
Scale 1:10




Side Elevation
Scale 1:10

NOTES:

1. Used for pipes on grades of 1 in 10 or greater
2. Location of anchors;
   Gradient: 1 in 3 to 1 in 10 – max. spacing 10 metres greater than 1 in 3 – max. spacing as directed
3. Anchor blocks to extend into solid material
4. All dimensions are in millimetres.

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Standard Drawing

LAST UPDATED: 07/12/18

FILE PATH: A4
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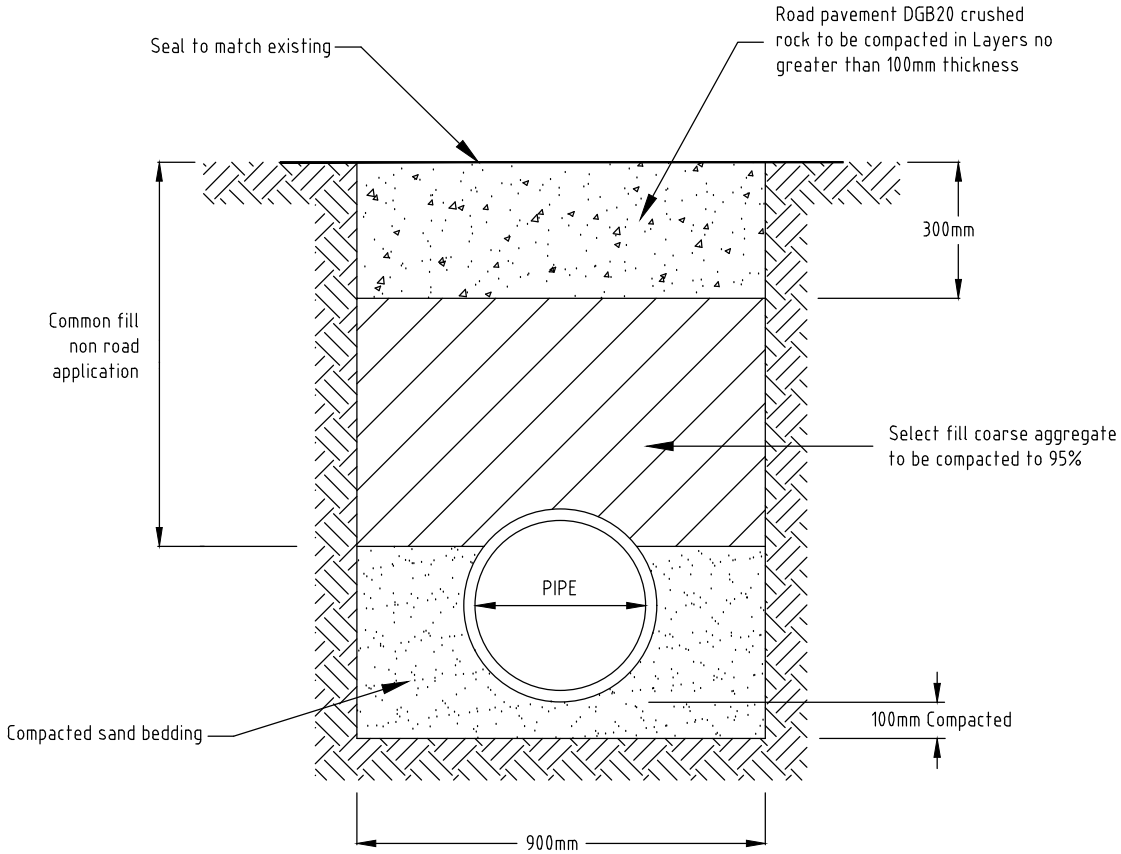
# PIPELINE ANCHOR BLOCK

SD209

REV A




## Pipe Bedding Detail
## Not to Scale

NOTES:

1. All trenches under kerbs, driveways, footpaths & road pavement should be backfilled as per standard specification.
2. All pipes to be a minimum class 2, unlesds otherwise specified.
3. Easement drains to be located to ensure 500mm minimum from edge of pipe to edge of easement. For reinstatement works, refer to note 1.
4. If trench is within 150mm of kerb then trench is to be backfilled with select backfill from site as directed. For new works or reinstatement works, refer to note 1.
5. Minimum requirements for pipe located under road pavements & taking road runoff - ø300mm RRJ R.C.

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Standard Drawing

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FILE PATH: A4
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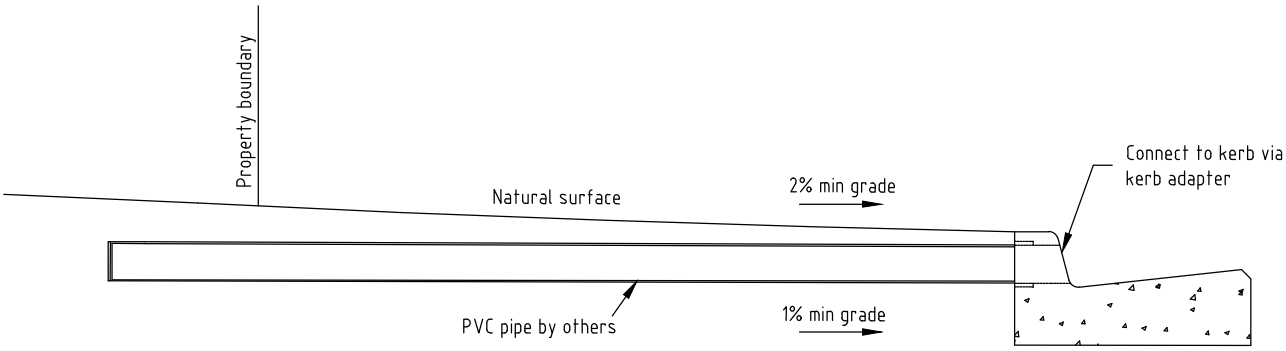
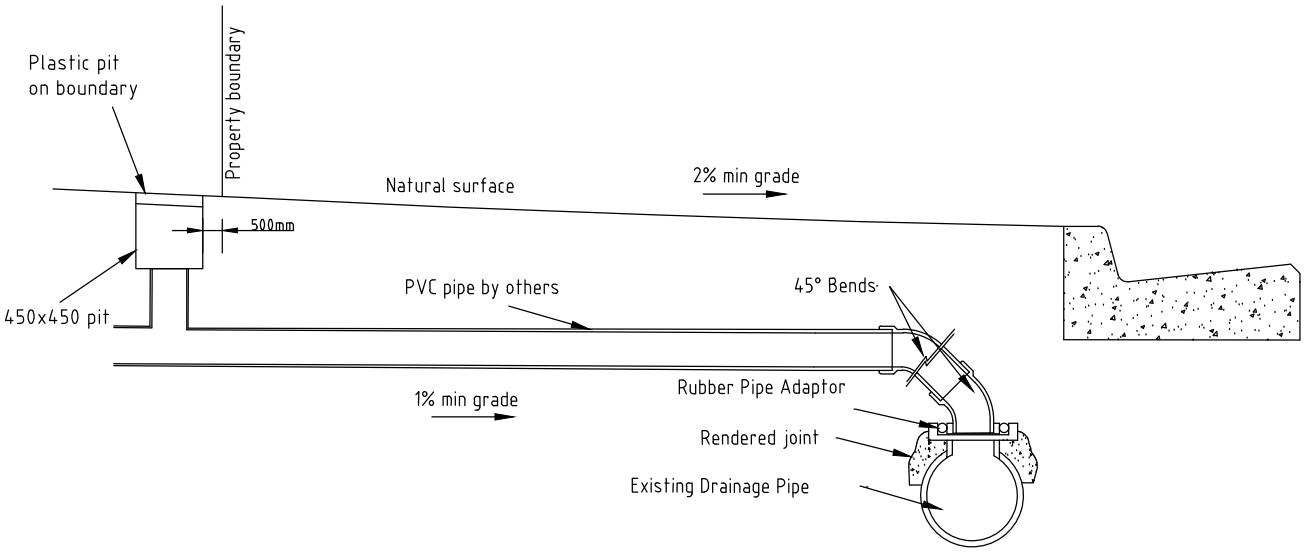
# PIPELINE TRENCH DETAIL

SD210

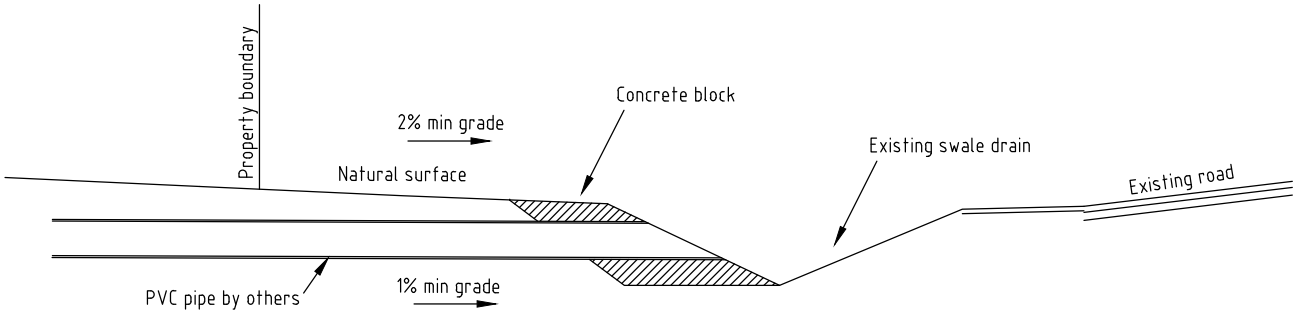
REV A




## Connection to Existing Kerb Adapter




## Connection to Existing Stormwater Pipe




## Connection to Existing Swale Drain

NOTES:

1. Connection shall be to the stormwater pipe when levels do not allow connection to kerb or adequate cover over PVC pipe cannot be achieved.
2. For inadequate cover over PVC pipe in non piped drainage frontage, 1000 min. length of galvanised steel section to be installed at back of kerb.
3. For connection to kerb, sawcut kerb and epoxy and concrete kerb adaptors are to be in place.

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FILE PATH: A4

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# PROPERTY HOUSE CONNECTIONS

## FOR CONNECTION TO KERB, SWALE & PIPEWORK

SD211

REV A