NOTES

1. CONCRETE GRADE N25.
2. SIDE WALLS OF PITS DEEPER THAN 1500 ARE TO BE REINFORCED WITH ONE LAYER OF RL1218 MESH RETURNED 300 INTO BASE.
3. THREE LAYERS OF RL1218 MESH RETURNED 300 INTO BASE.
4. ALL EXPOSED EDGES TO BE ROUNDED WITH 20 RADIUS.
5. MINIMUM COVER OF REINFORCEMENT SHALL BE 50 UNLESS SHOWN OTHERWISE.
6. LOCATION AND LEVEL OF GULLY PIT SHOWN IN THE DRAWINGS REFERS TO THIS POINT.
7. FOR DETAILS OF FRAME AND GRATE SEE R0220-04 AND R0220-05.
8. FOR PITS WITH PIPE DIAMETER GREATER THAN 450MM SEE R0220-28.
9. AT RIGHT ANGLE CHANGE IN PIPE DIRECTION, OUTLET INVERT TO BE 150 BELOW INLET INVERT.
10. DEPTH OF PIT NOT TO EXCEED 3000.

ONE LAYER OF RL1218 MESH RETURNED 300 INTO BASE.

SIDE WALLS OF PITS DEEPER THAN 1500 ARE TO BE REINFORCED WITH
ONE LAYER OF RL1218 MESH RETURNED 300 INTO BASE.

MINIMUM COVER OF REINFORCEMENT SHALL BE 50 UNLESS SHOWN OTHERWISE.

LOCATION AND LEVEL OF GULLY PIT SHOWN IN THE DRAWINGS REFERS TO THIS POINT.

FOR DETAILS OF FRAME AND GRATE SEE R0220-04 AND R0220-05.

FOR PITS WITH PIPE DIAMETER GREATER THAN 450MM SEE R0220-28.

AT RIGHT ANGLE CHANGE IN PIPE DIRECTION, OUTLET INVERT TO BE 150 BELOW INLET INVERT.

DEPTH OF PIT NOT TO EXCEED 3000.

ALL DIMENSIONS ARE IN MILLIMETRES UNLESS OTHERWISE SHOWN.

SEND FEEDBACK ON THIS STANDARD DRAWING TO technologystandards@rms.nsw.gov.au
GULLY PIT TYPE SA PIPE DIAMETER UP TO 450 mm

- PRECAST CONCRETE LINTEL
- BACK OF LINE
- Joists
- Footpath
- Drainage
- Subsoil drain 100 DIA. Holes for pipes greater than 450DIA.
- Sedimentation control where specified
- Additional 360° below invert to be provided for sedimentation control where specified

REFERENCE POINT

SEND FEEDBACK ON THIS STANDARD DRAWING TO technologystandards@rms.nsw.gov.au

© Roads and Maritime Services
REINFORCEMENT SCHEDULE

<table>
<thead>
<tr>
<th>SHAPE</th>
<th>MARK</th>
<th>DIA</th>
<th>L1</th>
<th>LENGTH</th>
<th>No.</th>
<th>TOTAL</th>
<th>REO/D</th>
<th>TOTAL LENGTH (m)</th>
</tr>
</thead>
<tbody>
<tr>
<td>A</td>
<td>L1</td>
<td>10</td>
<td>10</td>
<td>10</td>
<td>5</td>
<td>5</td>
<td>1.100</td>
<td>1.100</td>
</tr>
<tr>
<td>A1</td>
<td>10</td>
<td>10</td>
<td>10</td>
<td>10</td>
<td>5</td>
<td>5</td>
<td>1.100</td>
<td>1.100</td>
</tr>
<tr>
<td>B</td>
<td>10</td>
<td>10</td>
<td>10</td>
<td>10</td>
<td>5</td>
<td>5</td>
<td>1.100</td>
<td>1.100</td>
</tr>
<tr>
<td>C</td>
<td>10</td>
<td>10</td>
<td>10</td>
<td>10</td>
<td>5</td>
<td>5</td>
<td>1.100</td>
<td>1.100</td>
</tr>
</tbody>
</table>

NOTES

1. CONCRETE GRADE N25
2. CLEAR COVER TO REINFORCEMENT SHALL BE 25 mm UNLESS SHOWN OTHERWISE.
3. EXPOSED SURFACES TO BE OFF-STEEL FLOAT FINISH OR OF HIGH QUALITY STEEL FLOAT FINISH.
4. ALL EXPOSED EDGES TO BE ROUNDED TO 5 mm FINISH.
5. GALVANISING TO BE IN ACCORDANCE WITH AS4680.
NOTES

1. STEEL GRATES AND FRAMES ARE TO BE FABRICATED FROM MILD STEEL AND HOT DIP GALVANISED.

2. GRATING PATTERN AND BAR SIZES MAY VARY BUT SHALL BE CLASS D AND BIKE/SIDE IN ACCORDANCE WITH AS 3996 UNLESS OTHERWISE STATED.
NOTES

1. STEEL GRATES AND FRAMES ARE TO BE FABRICATED FROM MILD STEEL AND HOT DIP GALVANISED.

2. GRATING PATTERN AND BAR SIZES MAY VARY BUT SHALL BE CLASS D AND CYCLE SAFE IN ACCORDANCE WITH AS 3996 UNLESS OTHERWISE STATED.
Steel grille for details see DS2014/005822

Elevation of Inlet

Plan with cover and grille removed

Concrete cover

Recess 80 x 25 to contain R.15 G.J. lifting bar

Slab 76 x 76 M.S. Angle

NOTES

1. Concrete grade N25.
2. Location and level of gully pit shown in the drawings refer to this point.
3. See walls of all pits deeper than 1 m.6. Are to be reinforced with one layer of slab mesh returned 300 to base.
4. Depth of pit not to exceed 3 m.6.
5. Pits deeper than 1 m.6. Are to be fitted with galvanised step irons.
6. All exposed edges to be rounded with 20 radius.
7. For pipes greater than 450 dia. Refer to R0220-28.
8. Surface of precast cover to be finished with materials and method similar to that specified for median paving.

All dimensions are in millimetres unless otherwise shown.

Send feedback on this standard drawing to technologystandards@rms.nsw.gov.au

Manager Road, Utility, Specifications & Technology

Date JUN 22

Transport Roads & Maritime Services

Road Design Engineering

R020 Stormwater drainage series - Gully pits

Gully pit type SF

A3

Send feedback on this standard drawing to technologystandards@rms.nsw.gov.au

Manager Road, Utility, Specifications & Technology

Date JUN 22

Transport Roads & Maritime Services

Road Design Engineering

R0220-09

Sheet 1 of 1

Send feedback on this standard drawing to technologystandards@rms.nsw.gov.au

Manager Road, Utility, Specifications & Technology

Date JUN 22

Transport Roads & Maritime Services

Road Design Engineering

R0220-09

Sheet 1 of 1

Send feedback on this standard drawing to technologystandards@rms.nsw.gov.au

Manager Road, Utility, Specifications & Technology

Date JUN 22

Transport Roads & Maritime Services

Road Design Engineering

R0220-09

Sheet 1 of 1
NOTES

1. STEEL GRATES AND FRAMES ARE TO BE FABRICATED FROM MILD STEEL AND HOT DIP GALVANISED.
2. GRATING PATTERN AND BAR SIZES MAY VARY BUT SHALL BE CLASS C AND (BICYCLE) SAFE IN ACCORDANCE WITH AS 3996 UNLESS OTHERWISE STATED.

MILD STEEL GRILLE

1 REQUIRED

4/14 DIA. COUNTERSINK HOLES
8 HOLES 90 X 50 EQUALLY SPACED

ALL DIMENSIONS ARE IN MILLIMETRES UNLESS OTHERWISE SHOWN

SEND FEEDBACK ON THIS STANDARD DRAWING TO technologystandards@rms.nsw.gov.au
PIPE TO BE ANCHORED TO OUTLET WITH 272 mm ROCK BOLTS.

BATTER SLOPE 1:5:1

PLAN

SECTION

NOT TO SCALE

END VIEW

SECTION

NOT TO SCALE

NOTES

1. CONCRETE GRADE N25
2. CONSTRUCT GULLY PIT IN REVERSE WHEN FLOW IS IN OPPOSITE DIRECTION.
3. WHERE GULLY PIT IS LOCATED UNDER GUARD FENCE, COVERS MAY BE OMITTED.
4. TO BE READ IN CONJUNCTION WITH THE SPECIFICATION.

ALL DIMENSIONS ARE IN MILLIMETRES UNLESS OTHERWISE SHOWN

SEND FEEDBACK ON THIS STANDARD DRAWING TO technologystandards@rns.nsw.gov.au

STANDARD DRAWING

ROAD DESIGN ENGINEERING

STANDARD GULLY PIT TYPE SG FOR TYPE SF KERB

R0220 STORMWATER DRAINAGE SERIES - GULLY PITS

MANAGER ROAD POLICY, SPECIFICATIONS & TECHNOLOGY

DATE: 11/06/19

SIGNATURE

© Roads and Maritime Services
NOTES

1. CONCRETE STRENGTH GRADE SHALL BE N25.
2. SEE WALLS OF ALL PITS DEEPER THAN 1500 mm TO BE REINFORCED WITH ONE LAYER OF 82 MESH RETURNED 200 MINIMUM INTO BASE.
3. DEPTH OF PIT NOT TO EXCEED 3500 mm (SPECIAL DESIGN REQUIRED).
4. PITS DEEPER THAN 1200 mm TO BE FITTED WITH STEPS.
5. ALL EXPOSED EDGES TO BE ROUNDED WITH 20 mm RADIUS.
6. LOCATION AND CHANNEL LEVEL OF GULLY PIT IN PLANS REFER TO THIS POINT.
7. FOR DETAILS OF GRATE AND FRAME SEE R0220-19.

PROJECT: LOCATION AND CHANNEL LEVEL OF GULLY PIT IN PLANS REFER TO THIS POINT.

FOR DETAILS OF GRATE AND FRAME SEE R0220-19.
NOT TO SCALE

SECTION

1

FOR PIPES ≤ 25 mm I.D.

SECTION

2

FOR PIPES ≤ 40 mm I.D.

NOT TO SCALE

PLAN

PICT DETAILS

NOTES

1. CONCRETE STRENGTH GRADE SHALL BE N25.
2. SEE WELLS OF ALL PITS DEEPER THAN 1200 mm ARE TO BE REINFORCED WITH ONE LAYER OF #8 MESH RETURNED 200 MM MUM INTO BASE.
3. DEPTH OF PIT NOT TO EXCEED 3500 mm (SPECIAL DESIGN REQUIRED).
5. PITS DEEPER THAN 1200 mm TO BE FITTED WITH STEPS.
6. ALL EXPOSED EDGES TO BE ROUNDED WITH 20 mm RADIUS.
7. LOCATION AND CHANNEL LEVEL OF GULLY PITS IN PLANS REFER TO THIS POINT.
8. MINIMUM COVER TO EXPOSED REINFORCEMENT 50 mm.
NOTES

1. CONCRETE STRENGTH GRADE SHALL BE N25.
2. SIDE WALLS OF ALL PITS DEEPER THAN 1500 ARE TO BE REINFORCED WITH ONE LAYER OF SL2 MESH RETURNED 200 INTO BASE.
3. DEPTH OF PIT NOT TO EXCEED 3500 (SPECIAL DESIGN REQUIRED).
4. PITS DEEPER THAN 1000 TO BE FITTED WITH GALVANISED STEP IRONS.
5. ALL EXPOSED EDGES TO BE ROUNDED WITH 20 RADIUS.
6. LOCATION AND LEVEL OF GULLY PIT SHOWN IN THE DRAWINGS REFER TO THIS POINT.
7. FOR DETAILS OF GRATE AND FRAME SEE R0220-23.
NOTES
1. CONCRETE STRENGTH GRADE SHALL BE N25.
2. SEE WALLS OF ALL PITS DEEPER THAN 1 200 TO BE FITTED WITH GALVANISED STEP (IRONS).
3. CONCRETE STRENGTH GRADE SHALL BE N25.
4. DEPTH OF PIT NOT TO EXCEED 3 500 (SPECIAL DESIGN REQUIRED).
5. PIT DETAILS
6. LOCATION AND LEVEL OF GULLY PIT SHOWN IN PLANS REFER TO THIS POINT.
7. MINIMUM COVER TO OUTSIDE REINFORCEMENT 50.
8. FOR DETAILS OF GRATE AND FRAME SEE R0220-23.

ALL DIMENSIONS ARE IN MILLIMETRES UNLESS OTHERWISE SHOWN.
NOTES

1. Steel grates and frames are to be fabricated from mild steel and hot dip galvanized.

2. Grating pattern and bar sizes may vary but shall be class D and bicycle safe in accordance with AS 2008 unless otherwise stated.

STEEL GRATES AND FRAMES ARE TO BE FABRICATED FROM MILD STEEL AND HOT DIP GALVANIZED.

GRATING PATTERN AND BAR SIZES MAY VARY BUT SHALL BE CLASS D AND HOT DIP GALVANIZED.

STEEL GRATES AND FRAMES ARE TO BE FABRICATED FROM MILD STEEL AND HOT DIP GALVANIZED.

GRATING PATTERN AND BAR SIZES MAY VARY BUT SHALL BE CLASS D AND HOT DIP GALVANIZED.

STEEL GRATES AND FRAMES ARE TO BE FABRICATED FROM MILD STEEL AND HOT DIP GALVANIZED.

GRATING PATTERN AND BAR SIZES MAY VARY BUT SHALL BE CLASS D AND HOT DIP GALVANIZED.
NOTES

1. CONCRETE GRADE N25.
2. SIDE WALLS OF ALL PITS DEEPER THAN 1500 mm ARE TO BE REINFORCED WITH ONE LAYER OF SL82 MESH RETURNED 200 mm INTO BASE.
3. DEPTH OF PIT NOT TO EXCEED 3000 mm. EPW (EXCEPT DRAINAGE PIPS) USE DEPTH GREATER THAN 3000 mm.
4. PITS DEEPER THAN 1200 mm TO BE FITTED WITH STEP IRONS.
5. WHERE LONGITUDINAL PIPE DIAMETER EXCEEDS 800 mm, PIT WALLS TO BE STEPPED IN ACCORDANCE WITH DS2014/005848.
6. LOCATION AND LEVEL OF REFERENCE POINT SHOWN ON DESIGN PLANS.
7. FOR DETAILS OF GRATE AND FRAME SEE R0220-05.
Provide expansion joints every 50 m. Joint to be formed by inserting a sheet of approved joint filler.

NOTES
1. Concrete strength N25.
2. Steel grates and frames to be mild steel and hot dipped galvanized.
1. Steel gratings and frames are to be fabricated from mild steel and hot dip galvanised.
2. Grating pattern and bar sizes may vary but shall be classified and bicycle safe in accordance with AS 3996 unless otherwise stated.
3. For details of gratings see R0220-08.
NOTES

1. LOCATION AND LEVEL OF THE PIT SHOWN IN THE DRAWINGS REFERS TO THIS POINT:

2. CONCRETE STRENGTH GRADE SHALL BE N25.

3. WHERE PIPE DIAMETER EXCEEDS 975 mm PIT WALLS TO BE STEPPED IN ACCORDANCE WITH R0220-28.

4. WHERE PIT IS LOCATED IN A SAG, INLET DEPRESSIONS ARE TO BE PROVIDED ON BOTH SIDES OF THE PIT.

5. FOR DETAILS OF GRATE AND FRAME SEE R0220-33.

6. SIDEWALLS OF PITS DEEPER THAN 1500 mm ARE TO BE REINFORCED WITH ONE LAYER OF SL2 MESH RETURNED 300 mm INTO THE BASE.

7. DEPTH OF PIT IS NOT TO EXCEED 3000 mm (SPECIAL DESIGN REQUIRED).

8. PITS DEEPER THAN 1200 mm ARE TO BE FITTED WITH STEP IRONS.

9. MINIMUM COVER TO REINFORCEMENT TO BE 50 mm UNLESS SHOWN OTHERWISE.

10. PROVIDED ON BOTH SIDES OF THE PIT.

11. ACORDING TO R0220-28.

12. CONCRETE STRENGTH GRADE SHALL BE N25.

13. THIS POINT:

LOCATION AND LEVEL OF THE PIT SHOWN IN THE DRAWINGS REFERS TO THIS POINT:

1. LOCATION AND LEVEL OF THE PIT SHOWN IN THE DRAWINGS REFERS TO THIS POINT:

2. CONCRETE STRENGTH GRADE SHALL BE N25.

3. WHERE PIPE DIAMETER EXCEEDS 975 mm PIT WALLS TO BE STEPPED IN ACCORDANCE WITH R0220-28.

4. WHERE PIT IS LOCATED IN A SAG, INLET DEPRESSIONS ARE TO BE PROVIDED ON BOTH SIDES OF THE PIT.

5. FOR DETAILS OF GRATE AND FRAME SEE R0220-33.

6. SIDEWALLS OF PITS DEEPER THAN 1500 mm ARE TO BE REINFORCED WITH ONE LAYER OF SL2 MESH RETURNED 300 mm INTO THE BASE.

7. DEPTH OF PIT IS NOT TO EXCEED 3000 mm (SPECIAL DESIGN REQUIRED).

8. PITS DEEPER THAN 1200 mm ARE TO BE FITTED WITH STEP IRONS.

9. MINIMUM COVER TO REINFORCEMENT TO BE 50 mm UNLESS SHOWN OTHERWISE.

10. PROVIDED ON BOTH SIDES OF THE PIT.

11. ACORDING TO R0220-28.

12. CONCRETE STRENGTH GRADE SHALL BE N25.

13. THIS POINT:

LOCATION AND LEVEL OF THE PIT SHOWN IN THE DRAWINGS REFERS TO THIS POINT:

1. LOCATION AND LEVEL OF THE PIT SHOWN IN THE DRAWINGS REFERS TO THIS POINT:

2. CONCRETE STRENGTH GRADE SHALL BE N25.

3. WHERE PIPE DIAMETER EXCEEDS 975 mm PIT WALLS TO BE STEPPED IN ACCORDANCE WITH R0220-28.

4. WHERE PIT IS LOCATED IN A SAG, INLET DEPRESSIONS ARE TO BE PROVIDED ON BOTH SIDES OF THE PIT.

5. FOR DETAILS OF GRATE AND FRAME SEE R0220-33.

6. SIDEWALLS OF PITS DEEPER THAN 1500 mm ARE TO BE REINFORCED WITH ONE LAYER OF SL2 MESH RETURNED 300 mm INTO THE BASE.

7. DEPTH OF PIT IS NOT TO EXCEED 3000 mm (SPECIAL DESIGN REQUIRED).

8. PITS DEEPER THAN 1200 mm ARE TO BE FITTED WITH STEP IRONS.

9. MINIMUM COVER TO REINFORCEMENT TO BE 50 mm UNLESS SHOWN OTHERWISE.

10. PROVIDED ON BOTH SIDES OF THE PIT.

11. ACORDING TO R0220-28.

12. CONCRETE STRENGTH GRADE SHALL BE N25.

13. THIS POINT:

LOCATION AND LEVEL OF THE PIT SHOWN IN THE DRAWINGS REFERS TO THIS POINT:

1. LOCATION AND LEVEL OF THE PIT SHOWN IN THE DRAWINGS REFERS TO THIS POINT:

2. CONCRETE STRENGTH GRADE SHALL BE N25.

3. WHERE PIPE DIAMETER EXCEEDS 975 mm PIT WALLS TO BE STEPPED IN ACCORDANCE WITH R0220-28.

4. WHERE PIT IS LOCATED IN A SAG, INLET DEPRESSIONS ARE TO BE PROVIDED ON BOTH SIDES OF THE PIT.

5. FOR DETAILS OF GRATE AND FRAME SEE R0220-33.

6. SIDEWALLS OF PITS DEEPER THAN 1500 mm ARE TO BE REINFORCED WITH ONE LAYER OF SL2 MESH RETURNED 300 mm INTO THE BASE.

7. DEPTH OF PIT IS NOT TO EXCEED 3000 mm (SPECIAL DESIGN REQUIRED).

8. PITS DEEPER THAN 1200 mm ARE TO BE FITTED WITH STEP IRONS.

9. MINIMUM COVER TO REINFORCEMENT TO BE 50 mm UNLESS SHOWN OTHERWISE.

10. PROVIDED ON BOTH SIDES OF THE PIT.

11. ACORDING TO R0220-28.

12. CONCRETE STRENGTH GRADE SHALL BE N25.

13. THIS POINT:

LOCATION AND LEVEL OF THE PIT SHOWN IN THE DRAWINGS REFERS TO THIS POINT:

1. LOCATION AND LEVEL OF THE PIT SHOWN IN THE DRAWINGS REFERS TO THIS POINT:

2. CONCRETE STRENGTH GRADE SHALL BE N25.

3. WHERE PIPE DIAMETER EXCEEDS 975 mm PIT WALLS TO BE STEPPED IN ACCORDANCE WITH R0220-28.

4. WHERE PIT IS LOCATED IN A SAG, INLET DEPRESSIONS ARE TO BE PROVIDED ON BOTH SIDES OF THE PIT.

5. FOR DETAILS OF GRATE AND FRAME SEE R0220-33.

6. SIDEWALLS OF PITS DEEPER THAN 1500 mm ARE TO BE REINFORCED WITH ONE LAYER OF SL2 MESH RETURNED 300 mm INTO THE BASE.

7. DEPTH OF PIT IS NOT TO EXCEED 3000 mm (SPECIAL DESIGN REQUIRED).

8. PITS DEEPER THAN 1200 mm ARE TO BE FITTED WITH STEP IRONS.

9. MINIMUM COVER TO REINFORCEMENT TO BE 50 mm UNLESS SHOWN OTHERWISE.

10. PROVIDED ON BOTH SIDES OF THE PIT.

11. ACORDING TO R0220-28.

12. CONCRETE STRENGTH GRADE SHALL BE N25.

13. THIS POINT:

LOCATION AND LEVEL OF THE PIT SHOWN IN THE DRAWINGS REFERS TO THIS POINT:

1. LOCATION AND LEVEL OF THE PIT SHOWN IN THE DRAWINGS REFERS TO THIS POINT:

2. CONCRETE STRENGTH GRADE SHALL BE N25.

3. WHERE PIPE DIAMETER EXCEEDS 975 mm PIT WALLS TO BE STEPPED IN ACCORDANCE WITH R0220-28.

4. WHERE PIT IS LOCATED IN A SAG, INLET DEPRESSIONS ARE TO BE PROVIDED ON BOTH SIDES OF THE PIT.

5. FOR DETAILS OF GRATE AND FRAME SEE R0220-33.

6. SIDEWALLS OF PITS DEEPER THAN 1500 mm ARE TO BE REINFORCED WITH ONE LAYER OF SL2 MESH RETURNED 300 mm INTO THE BASE.

7. DEPTH OF PIT IS NOT TO EXCEED 3000 mm (SPECIAL DESIGN REQUIRED).

8. PITS DEEPER THAN 1200 mm ARE TO BE FITTED WITH STEP IRONS.

9. MINIMUM COVER TO REINFORCEMENT TO BE 50 mm UNLESS SHOWN OTHERWISE.

10. PROVIDED ON BOTH SIDES OF THE PIT.

11. ACORDING TO R0220-28.

12. CONCRETE STRENGTH GRADE SHALL BE N25.

13. THIS POINT:

LOCATION AND LEVEL OF THE PIT SHOWN IN THE DRAWINGS REFERS TO THIS POINT:

1. LOCATION AND LEVEL OF THE PIT SHOWN IN THE DRAWINGS REFERS TO THIS POINT:

2. CONCRETE STRENGTH GRADE SHALL BE N25.

3. WHERE PIPE DIAMETER EXCEEDS 975 mm PIT WALLS TO BE STEPPED IN ACCORDANCE WITH R0220-28.

4. WHERE PIT IS LOCATED IN A SAG, INLET DEPRESSIONS ARE TO BE PROVIDED ON BOTH SIDES OF THE PIT.

5. FOR DETAILS OF GRATE AND FRAME SEE R0220-33.

6. SIDEWALLS OF PITS DEEPER THAN 1500 mm ARE TO BE REINFORCED WITH ONE LAYER OF SL2 MESH RETURNED 300 mm INTO THE BASE.

7. DEPTH OF PIT IS NOT TO EXCEED 3000 mm (SPECIAL DESIGN REQUIRED).

8. PITS DEEPER THAN 1200 mm ARE TO BE FITTED WITH STEP IRONS.

9. MINIMUM COVER TO REINFORCEMENT TO BE 50 mm UNLESS SHOWN OTHERWISE.

10. PROVIDED ON BOTH SIDES OF THE PIT.

11. ACORDING TO R0220-28.

12. CONCRETE STRENGTH GRADE SHALL BE N25.
1. CONCRETE GRADE N25
2. SIDE WALLS OF ALL PITS DEEPER THAN 1500 AND TO BE REINFORCED WITH ONE-LAYER OF SL2 MESH RETURNING 300 INTO BASE.
3. DEPTH OF PIT SHALL NOT EXCEED 3500.
4. PITS DEEPER THAN 1200 TO BE FITTED WITH GALVANISED STEP IRONS. MESH返
5. CEMENT: PIPES ENTER PIT ON A SKEW OD = HORIZONTAL SKEW OF 5.

SEE R0220-45.

PITS DEEPER THAN 1200 TO BE FITTED WITH GALVANISED STEP IRONS.
NOTES
1. CONCRETE GRADE N25.
2. PRECAST CONCRETE COVERS TO BE REINFORCED WITH 150 DIA. HOLE FOR SUBSURFACE DRAIN OUTLET WHERE REQUIRED.
3. LOCATION AND LEVEL OF JUNCTION BOX SHOWN IN THE DRAWINGS REFER TO THIS POINT.
4. SIDE WALLS OF ALL PIT DEEPER THAN 150 TO BE REINFORCED WITH ONE LAYER OF P.L.2000 MESH RETURNED 500 INTO BASE.
5. AT RIGHT ANGLE CHANGE IN PIPE DIRECTION OUTLET INVERT TO BE 150 BELOW INLET INVERT.
6. DEPTH OF JUNCTION BOX NOT TO EXCEED 300.
7. MINIMUM COVER OF REINFORCEMENT SHALL BE 50 UNLESS SHOWN OTHERWISE.
NOTES

1. INLET OUTLET PIPES TO BE LOCATED AS PER DRAINAGE PLANS.
2. PIPES TO BE CONNECTED TO PIT IN ACCORDANCE WITH R0220-43.
3. WHERE THE GULLY PIT IS LOCATED IN A SAG, INLET DEPRESSIONS ARE TO BE PROVIDED ON BOTH SIDES OF THE GULLY PIT.
4. MATERIAL IN FRAMES AND GRATINGS TO BE MILD STEEL, HOT DIP GALVANIZED IN ACCORDANCE WITH AS 1650.
5. USE CONCRETE GRADE N25.
6. SIDEWALLS OF PIT DEPTHER THAN 1200 TO BE REINFORCED WITH ONE LAYER OF SL82 MESH RETURNED 300 INTO BASE.
7. PITS DEEPER THAN 1200 TO BE FITTED WITH GALVANIZED STEP IRONS.
8. PROVIDE SUBSOIL DRAINAGE INTO PITS AS REQUIRED.
9. DEPTH OF PIT NOT TO EXCEED 3500 mm.
10. FOR DETAILS OF FRAME AND GRATE SEE R0220-33.
NOTES
1. INLET OUTLET PIPES TO BE LOCATED AS PER DRAINAGE PLANS.
2. PIPES TO BE CONNECTED TO PITS IN ACCORDANCE WITH R0220-43.
3. WHERE THE GULLY PIT IS LOCATED IN A SAG, INLET DEPRESSIONS ARE TO BE PROVIDED ON BOTH SIDES OF THE GULLY PIT.
4. MATERIAL IN FRAMES AND GRATES TO BE MILD STEEL, HOT DIP GALVANISED.
5. USE CONCRETE GRADE N25.
6. LAYER OF SL82 MESH RETURNED 300 INTO BASE.
7. SIDEWALLS OF PITS DEEPER THAN 1500 TO BE REINFORCED WITH ONE 12 DIA. DEFORMED BARS AT 200 CENTRES.
8. PITS DEEPER THAN 1200 TO BE FITTED WITH GALVANISED STEP IRONS.
9. EISENHALL OF PIT DEEPER THAN 1500 TO BE REINFORCED WITH ONE LAYER OF SL82 MESH RETURNED 300 INTO BASE.
10. DEPRESSION INLET OUTLET PIPES TO BE LOCATED AS PER DRAINAGE PLANS.
11. MEDIAN INVERT DEPRESSION TO BE Fitted WITH GALVANISED STEP IRONS.
12. PROVIDE SUBSOIL DRAINS INTO PITS AS REQUIRED.
13. DEPTH OF PIT NOT TO EXCEED 3500 mm.
14. MEDIAN DEPRESSION TO BE Fitted WITH GALVANISED STEP IRONS.
15. FOR DETAILS OF FRAME AND GRATE SEE R0220-33.
NOTES

1. STEEL GRATES AND FRAMES ARE TO BE FABRICATED FROM MILD STEEL AND HOT DIP GALVANISED.
2. THE GRATING SHOWN ON THIS DRAWING IS TO BE USED ONLY WHERE THERE IS NO PEDESTRIAN OR PEDESTRIAN MOVEMENTS AND WHERE THERE IS A PROBABILITY OF BLOCKAGE DUE TO MAINTENANCE PROCEDURES.
3. GRATING PATTERN AND BAR SIZES MAY VARY SUT ONLY WILL BE CLASS D AND BE CYCLE SAFE IN ACCORDANCE WITH AS 1184 UNLESS OTHERWISE STATED.

PROJECT

ROAD POLICY, SPECIFICATIONS AND TECHNOLOGY

STANDARD GULLY PIT DEPRESSED MEDIAN PITS

GRATINGS AND FRAMES

R0220 STORMWATER DRAINAGE SERIES - GULLY PITS

Send feedback on this standard drawing to technologystandards@nsw.gov.au

Transport

Roads & Maritime

Services

NSW

R0220-33

A3

Sheet 1 of 1

EDMS No.

R0220-33

Prepared By

Manager Road Policy, Specifications & Technology

Date

20.01.17

Issued

© Roads and Maritime Services
CAST IRON FRAME AND COVER CLASS "F" OR SIMILAR, SIZED TO SUIT CONNECTING PIPES.

MINIMUM PIT SIZE

<table>
<thead>
<tr>
<th>DEPTH</th>
<th>SINGLE</th>
<th>DOUBLE</th>
</tr>
</thead>
<tbody>
<tr>
<td>0 - 1200</td>
<td>762 x 762</td>
<td>762 x 1295</td>
</tr>
<tr>
<td>1200 - 2400</td>
<td>762 x 1295</td>
<td>762 x 1600</td>
</tr>
<tr>
<td>OVER 2400</td>
<td>762 x 1600</td>
<td>762 x 1800</td>
</tr>
</tbody>
</table>

CAST IRON FRAME & COVER SIZE

<table>
<thead>
<tr>
<th></th>
<th>SINGLE</th>
<th>DOUBLE</th>
</tr>
</thead>
<tbody>
<tr>
<td>762 x 762</td>
<td>762 x 1295</td>
<td>762 x 1600</td>
</tr>
<tr>
<td>914 x 914</td>
<td>914 x 1295</td>
<td>914 x 1605</td>
</tr>
</tbody>
</table>

NOTES
1. CONCRETE GRADE N25
2. WALL THICKNESS AND REINFORCEMENT SHOWN SHALL APPLY TO ALL PITS UP TO 1200 DEEP.
3. PITS DEEPER THAN 1200 TO BE FITTED WITH GALVANISED STEP IRONS.
4. ALL REINFORCEMENT LAPS TO BE 300 LONG.
5. 150 mm HOLE FOR SUBSOIL DRAIN OUTLETS TO BE LOCATED 100 ABOVE INVERT LEVEL OF THE STORMWATER PIPES.
6. LOCATION AND LEVEL OF GULLY PIT SHOWN IN THE DRAWINGS REFER TO THIS POINT.
NOTES
1. CONCRETE GRADE N25
2. LOCATION AND LEVEL OF INLET SUMP SHOWN IN THE DRAWINGS REFER TO THE POINT.
3. SIDE WALLS OF ALL PITS DEEPER THAN 1.5M TO BE REINFORCED WITH ONE LAYER OF 6.2 MM REINFORCING STEEL BARS EMBEDDED IN THE REINFORCED CONCRETE.
4. AT RIGHT ANGLE CHANGE IN PIPE DIRECTION OUTLET INVERT TO BE 150 mm BELOW INLET INVERT.
5. DEPTH OF JUNCTION BOX NOT TO EXCEED 1.5M.
6. MINIMUM COVER OF REINFORCEMENT SHALL BE 50 mm UNLESS SHOWN OTHERWISE.

ALL DIMENSIONS ARE IN MILLIMETRES UNLESS OTHERWISE SHOWN.

SECTION NOT TO SCALE

ELEVATION

SECTION NOT TO SCALE

PLAN

(Grate not shown)
1. LOCATION AND LEVEL OF GULLY PIT SHOWN IN DRAWINGS REFER TO THIS POINT.
2. SIDE WALLS OF ALL PITS DEEPER THAN 1500 ARE TO BE REINFORCED WITH ONE LAYER OF SL82 MESH RETURNED 300 INTO BASE.
3. PITS DEEPER THAN 1200 TO BE FITTED WITH GALVANISED STEP IRONS.
4. FOR PIPES GREATER THAN 450 DIAMETER REFER TO R0220-28.
5. CONCRETE GRADE N25.
6. ALL EXPOSED EDGES TO BE ROUNDED WITH 20 RADIUS.
7. DEPTH OF PIT NOT TO EXCEED 3500.
8. FOR TEMPORARY LID DETAIL WHERE SPECIFIED SEE DRAWING R0220-42.
PIT DIMENSIONS

<table>
<thead>
<tr>
<th>INLET / OUTLET DIA + 200</th>
<th>A</th>
<th>REINF. IN WALLS/SLAB</th>
</tr>
</thead>
<tbody>
<tr>
<td>400</td>
<td>125</td>
<td></td>
</tr>
<tr>
<td>500</td>
<td>125</td>
<td></td>
</tr>
<tr>
<td>600</td>
<td>125</td>
<td></td>
</tr>
<tr>
<td>700</td>
<td>125</td>
<td></td>
</tr>
<tr>
<td>800</td>
<td>125</td>
<td></td>
</tr>
<tr>
<td>900</td>
<td>125</td>
<td></td>
</tr>
</tbody>
</table>

DEPT TO INVERT LESS THAN ‘A’ END
REINFORCEMENT REQUIRED
OVER 1200 PROVIDE SLAB WITH STEP IRONS.

NOTES
1. CONCRETE STRENGTH N25.
2. SIDE DIMENSIONS WILL VARY WITH UNEQUAL PIPE SIZES, I.E. SIDE DIMENSIONS DETERMINED BY LARGEST OUTSIDE PIPE DIMENSION PLUS 200.

SEND FEEDBACK ON THIS STANDARD DRAWING TO technologystandards@rms.nsw.gov.au

MANAGER ROAD DESIGN ENGINEERING SERVICES
MANAGER ROAD DESIGN ENGINEERING SERVICES

DATE: 20.01.17

Transport Roads & Maritime Services

STANDARD DRAWING
ROAD DESIGN ENGINEERING
R0220 STORMWATER DRAINAGE SERIES - GULLY PITS
DETAILED DESIGN OF INSPECTION PIT

NOTE:
ALL DIMENSIONS ARE IN MILLIMETRES UNLESS OTHERWISE SHOWN.
NOTES

1. CUT INLET AND OUTLET PIPES TO BE SHAPED AROUND MANHOLE WITH REINFORCEMENT LEFT EXPOSED AND CUT TO LAP INTO CHAMBER REINFORCEMENT.
2. APPROPRIATE HOLES TO BE CUT INTO MANHOLE CHAMBER SECTIONS (MINIMUM 300 mm TO TOP OR BOTTOM OF UNIT).
3. CUT EXPOSED CHAMBER REINFORCEMENT AT INLET TO LAP WITH INLET PIPE REINFORCEMENT AND CONNECT REINFORCEMENT BY WELDING.
4. FILL REMAINING GAP WITH AN EPOXY RESIN MORTAR, POLYURETHANE RESIN MORTAR OR MAGNESIUM PHOSPHATE CEMENT MORTAR.
5. AT OUTLET, TURN EXPOSED CHAMBER REINFORCEMENT OUT AND INCLUDE IN THE CONCRETE SURROUND. DO NOT ENCIRCLE THE RUBBER RING JOINT IN THE CONCRETE SURROUND.
6. PLASTER INTERIOR OF OUTLET INCLUDING EXPOSED PIPE REINFORCEMENT.
7. STANDARD STEP IRONS TO BE GALVANISED MALLEABLE CAST FROM 300 mm WIDE, FIXED INTO REINFORCED CONCRETE CHAMBER.
8. CONCRETE BASE, SLAB, ROOF SLAB AND MANHOLE/GULLY PIT TO BE CONCRETE GRADE N25. BASE SLABS TO BE CONSTRUCTED IN NATURAL MATERIAL, OF SAFE BEARING CAPACITY OF 800 kPa.
9. CONCRETE BACKFILL/REINFORCEMENT AROUND INLET AND OUTLET PIPES TO BE CONCRETE GRADE N25.
10. COVER TO REINFORCEMENT INSTI. CONCRETE TO BE 15 mm.
11. PRECAST MANHOLE CHAMBERS TO BE CONSTRUCTED FROM CLASS 2 CONTINUOUS CIRCULAR REINFORCED CONCRETE PIPES DESIGNED AND CONSTRUCTED IN ACCORDANCE WITH AS 4133.
12. PRECAST MANHOLE CHAMBERS TO BE MANUFACTURED USING CONCRETE GRADE N25 WITH MINIMUM COVER TO REINFORCEMENT OF 15 mm.
13. MANHOLE CHAMBER JO HROMS TO BE INTERNAL FLUSH JOINTS, MORTARISED SMOOTH WITH EPOXY MORTAR AND APPLIED IN ACCORDANCE WITH THE MANUFACTURER'S RECOMMENDATIONS.
14. LENGTH AND LOCATION OF PRECAST UNITS TO SUIT INVERT LEVELS OF GULLY PIT GRATES AND PIPES.
15. FOR DETAILS OF GULLY PITS REFER TO R0220-30.
16. BACKFILLING AROUND SIDES OF MANHOLE CHAMBERS TO BE PERFORMED IN ACCORDANCE WITH ESTABLISHED SITE CONTRACT PROCEDURES AND SPECIFICATIONS AS DEFINED BY THESE SPECIFICATIONS. BACKFILL SHALL BE A SELECTED BACKFILL AND THE BACKFILLING PROCEDURE SHALL CONFORM TO THE SPECIFICATION FOR "BACKFILLING AND COMPACTION AGAINST THE SIDES OF CULVERTS AND WINGWALLS". WATER LAYERS ARE ADDED AND COMPACTED SIMULTANEOUSLY AROUND THE CIRCUMFERENCE OF THE STRUCTURE TO AVOID DIFFERENTIAL LOADING.
17. ALL METAL INSERTS, FITTINGS, CRATES, HANDRAILS, BOLTS ETC. ARE TO BE SUPPLIED NOT GALVANISED UNLESS NOTED OTHERWISE. ALL MASONRY ANCHORS AND BOLTS NOTED AS "S/S" TO BE STAINLESS STEEL GRADE 316 OR SIMILAR.
18. GRATING PATTERNS AND BAR SIZES MAY VARY BUT SHALL BE GLASS- AND BICYCLE SAFE IN ACCORDANCE WITH AS 3996 UNLESS OTHERWISE STATED.
19. DEPTH NOT GREATER THAN 600 mm INLET AND OUTLET PIPES NOT GREATER THAN 600 mm DIA.
NOTES

1. CUT INLET AND OUTLET PIPES TO BE SHAPED AROUND MANHOLE WITH REINFORCEMENT LEFT EXPOSED AND CUT TO LAP INTO CHAMBER REINFORCEMENT.
2. APPROPRIATE HOLES TO BE CUT INTO MANHOLE CHAMBER SECTIONS: MINIMUM 320 mm TO TOP OR BOTTOM OF UNIT.
3. CUT EXPOSED CHAMBER REINFORCEMENT AT INLET TO LAP WITH INLET PIPE REINFORCEMENT AND CONNECT REINFORCEMENT BY WELDING.
4. FILL REMAINING GAP WITH AN EPOXY RESIN MORTAR, POLYESTER RESIN MORTAR OR MAGNESIUM PHOSPHATE CEMENT MORTAR.
5. AT OUTLET, TURN EXPOSED CHAMBER REINFORCEMENT OUT AND INCLUDE IN THE CONCRETE SURROUND. DO NOT ENCLOSE THE RUBBER RING JUIN TO THE CONCRETE SURROUND.
6. PLASTER INTERIOR OF OUTLET INCLUDING EXPOSED PIPE REINFORCEMENT.
7. STANDARD STEP IRONS TO BE GALVANISED MALLEABLE CAST IRON 300 mm WIDE, FIXED INTO REINFORCED CONCRETE CHAMBER.
8. CONCRETE BASE, SLAB, ROOF SLAB AND MANHOLE/GULLY PIT TO BE CONCRETE GRADE NS50. BASE SLABS TO BE CONSTRUCTED IN NATURAL MATERIALS, SAFE BEARING CAPACITY OF 600 kPa.
9. CONCRETE BACKFILL/REINFORCEMENT AROUND INLET AND OUTLET PIPES TO BE CONCRETE GRADE NS5.
10. COVER TO REINFORCEMENT FOR INSITU CONCRETE TO BE 18 mm.
11. PRECAST MANHOLE CHAMBERS TO BE CONSTRUCTED FROM CLASS 3 CONTINUOUS CIRCULAR REINFORCED CONCRETE PIPES DESIGNED AND CONSTRUCTED IN ACCORDANCE WITH AS 4133.
12. PRECAST MANHOLE CHAMBERS TO BE MANUFACTURED USING CONCRETE GRADE NS5 WITH MINIMUM COVER TO REINFORCEMENT OF 15 mm.
13. MANHOLE CHAMBER JOINTS TO BE INTERNAL FLUSH JOINTS, MORTARED SMOOTH WITH EPOXY MORTAR PREPARED AND APPLIED IN ACCORDANCE WITH THE MANUFACTURER'S RECOMMENDATIONS.
14. LENGTH AND LOCATION OF PRECAST UNITS TO SUIT INVERT LEVELS OF GULLY PIT GRATES AND PIPES.
15. FOR DETAILS OF GULLY PITS REFER TO R0220-30.
16. BACKFILLING AROUND SIDES OF MANHOLE CHAMBERS TO BE PERFORMED IN ACCORDANCE WITH ESTABLISHED SITE CONTRACT PROCEDURES AND SPECIFICATIONS AS defined by these specifications. Backfill shall be placed in a layer and the backfilling procedure to conform to the specification for "BACKFILLING AND COMPACTION AGAINST THE SIDES OF CONDUITS AND TUNNELS". Layers are added and compacted subsequently around the circumference of the structure to avoid differential loading.
17. ALL METAL INSERTS, FITTINGS, GRATING, HANDRAILS, LADDERS, BOLTS ETC. AND STRUCTURES TO BE SUPPLIED HOT DIP GALVANISED UNLESS OTHERWISE NOTED. ALL MASONRY ANCHORS AND BOLTS NOTED AS "S/S" TO BE STAINLESS STEEL GRADE 316 OR SIMILAR.
18. GRATING PATTERNS AND BAR SIZES MAY VARY BUT SHALL BE GLASS-facebook AND BICYCLE SAFE IN ACCORDANCE WITH AS 4034 UNLESS OTHERWISE STATED.
19. DEPTH NOT GREATER THAN 6 m INLET AND OUTLET PIPES NOT GREATER THAN 900 mm DIA.
NOTES
1. CONCRETE GRADE N25
2. DIMENSIONS X AND Y TO SUIT ULTIMATE PIT TYPE.

150

50

2600

10 CLEARANCE

PIT WALLS

REINFORCEMENT AS1304 F81

S F 1  =  2 5 0

S F 3  =  5 0 0

10 CLEARANCE

PIT WALLS

NOTES
1. CONCRETE GRADE N25
2. DIMENSIONS X AND Y TO SUIT ULTIMATE PIT TYPE.

150

50

2600

10 CLEARANCE

PIT WALLS

REINFORCEMENT AS1304 F81

S F 1  =  2 5 0

S F 3  =  5 0 0

10 CLEARANCE

PIT WALLS

NOTES
1. CONCRETE GRADE N25
2. DIMENSIONS X AND Y TO SUIT ULTIMATE PIT TYPE.

150

50

2600

10 CLEARANCE

PIT WALLS

REINFORCEMENT AS1304 F81

S F 1  =  2 5 0

S F 3  =  5 0 0

10 CLEARANCE

PIT WALLS

NOTES
1. CONCRETE GRADE N25
2. DIMENSIONS X AND Y TO SUIT ULTIMATE PIT TYPE.
INVERT SLAB

ELEVATION

SIDE ELEVATION

NOTES
1. WHERE THE PIPE IS TO BE CONNECTED, STEEL REINFORCEMENT IN THE PRECAST BOX WILL BE EXPOSED CUTC AND BENT INTO THE SUPPORT BLOCK.
NOTES
1. PITS DEEPER THAN 600 mm MUST BE FITTED WITH INDIVIDUAL-RUNG LADDERS.
2. INDIVIDUAL-RUNG LADDERS MUST BE LOCATED:
   - DIRECTLY BELOW THE OPENING OF THE COVER,
   - DESIRABLY ON A WALL WITHOUT PIPE OPENINGS,
   - DESIRABLY ON ONE OF THE LONG SIDES OF THE PIT.
3. INDIVIDUAL-RUNG LADDERS MUST COMPLY WITH AS1657.
4. INDIVIDUAL-RUNG LADDERS MUST HAVE SHARP EDGES ROUNDED AND BE HOT DIP GALVANISED AFTER FABRICATION.
5. PROPRIETARY PLASTIC ENCAPSULATED INDIVIDUAL-RUNG LADDERS (OR APPROVED ALTERNATIVE) MAY BE USED.
6. INDIVIDUAL-RUNG LADDERS MUST HAVE SHARP EDGES ROUNDED AND BE HOT DIP GALVANISED AFTER FABRICATION.
7. INDIVIDUAL-RUNG LADDERS MUST BE LOCATED:
   - DIRECTLY BELOW THE OPENING OF THE COVER,
   - DESIRABLY ON A WALL WITHOUT PIPE OPENINGS,
   - DIRECTLY BELOW THE OPENING OF THE COVER.
8. INDIVIDUAL-RUNG LADDERS MUST BE LOCATED:
   - DESIRABLY ON ONE OF THE LONG SIDES OF THE PIT.
9. INDIVIDUAL-RUNG LADDERS MUST BE LOCATED:
   - DESIRABLY ON A WALL WITHOUT PIPE OPENINGS.
10. PROPERLY INSTALLED IN ACCORDANCE WITH THE MANUFACTURER'S SPECIFICATIONS.
11. ALL DIMENSIONS ARE IN MILLIMETRES UNLESS OTHERWISE STATED.
NOTES

1. CONCRETE GRADE N25 AT 28 DAYS.
2. SIDE WALLS OF ALL PITS DEEPER THAN 150 mm ARE TO BE REINFORCED WITH ONE LAYER OF SL2 MESH RETURNING 300 mm INTO BASE.
3. DEPTH OF PIT NOT TO EXCEED 3500 mm.
4. PITS DEEPER THAN 1200 mm TO BE FITTED WITH GALVANISED STEP IRONS.
5. ALL EXPOSED EDGES TO BE ROUNDED WITH 200 mm RADIUS.
6. MEDIAN WIDTH AS SHOWN IS FOR MINIMUM CONDITIONS.
7. ALL REINFORCEMENT LAPS 300 mm LONG.
8. FOR USE WITH FLEXIBLE PAVEMENT ONLY.
NOTES
1. LOCATION AS INDICATED ON PLANS.
1. FOUNDATION AND TRENCH BASES MUST COMPLY WITH RMS R11 STORMWATER DRAINAGE SPECIFICATION.
2. RUBBER BAND MUST COMPLY WITH AS 1646.
3. CONCRETE COLLAR MUST COMPLY WITH RMS R11 SPECIFICATION AND MUST BE CLASS 4.
4. NEW EXTENSION PIPE DIAMETER MUST BE EQUAL TO OR LARGER THAN THE EXISTING PIPE DIAMETER.
5. CONCRETE COLLAR SIZE MUST BE TWO SIZES ABOVE THE NEW PIPE TO PROVIDE 20mm ALL AROUND FOR POLYURETHANE FOAM.
6. BACKFILL MATERIAL TO BE AS SPECIFIED IN RMS R11 SPECIFICATION.
7. FLORIANE FILL, IN ACCORDANCE WITH Z111 AND AS10 MUST BE USED TO BACKFILL THE VOID UNDER THE COLLAR TO THE TOP OF RAUNCH ZONE.

NOTES

NEW RCP EXTENSION

EXISTING RCP

POLYURETHANE FOAM

REINFORCED CONCRETE COLLAR

RUBBER BAND

SECTION NOT TO SCALE

SECTION 1

SECTION 2

MEASURE M1
NOTES

1. CONCRETE GRADE N25.
2. SEE WALLS OF PITS DEEPER THAN 1500 MM TO BE REINFORCED WITH ONE LAYER OF RL1218 MESH RETURNED 300 INTO BASE.
3. PITS DEEPER THAN 1200 TO BE FITTED WITH GALVANISED STEP IRONS.
4. ALL EXPOSED EDGES TO BE ROUNDED WITH 20 RADIUS.
5. MINIMUM COVER OF REINFORCEMENT 500 MM UNLESS SHOWN OTHERWISE.
6. LOCATION AND LEVEL OF GULLY PIT SHOWN IN THE DRAWINGS REFER TO THIS POINT.
7. FOR DETAILS OF FRAME AND GRATE SEE R0220-35.
8. FOR PITS WITH PIPE DIAMETER GREATER THAN 450MM SEE R0220-28.
9. AT RIGHT ANGLE CHANGE IN PIPE DIRECTION, OUTLET INVERT TO BE 1500 MM BELLOW INLET INVERT.
10. DEPTH OF PIT NOT TO EXCEED 3000 MM.

SALES ON A3 SIZE DRAWING

THIS DRAWING MAY BE PREPARED IN COLOUR AND MAY BE INCOMPLETE IF COPIED.
NOTES

1. STEEL GRATES AND FRAMES ARE TO BE FABRICATED FROM MILD STEEL AND HOT DIP GALVANISED.
2. GRATING PATTERN AND BAR SIZES MAY VARY BUT SHALL BE CLASS D AND BICYCLE SAFE IN ACCORDANCE WITH AS 3996 UNLESS OTHERWISE STATED.
NOTES

GULLY PIT:
1. INLET OUTLET PIPES TO BE LOCATED AS PER DRAINAGE PLANS.
2. PIPES TO BE CONNECTED TO PIT IN ACCORDANCE WITH R0220-43.
3. WHERE THE GULLY PIT IS LOCATED IN A SAG, INLET DEPRESSIONS ARE TO BE PROVIDED ON BOTH SIDES OF THE GULLY PIT.
4. USE CONCRETE GRADE N25.
5. SIDEWALLS OF PITS DEEPER THAN 1200 TO BE REINFORCED WITH ONE LAYER OF SL2 MESH RETURNED 300 INTO BASE.
6. PIT DEEPER THAN 1200 TO BE FITTED WITH GALVANIZED STEP IRONS.
7. PROVIDE SUBSOIL DRAINS INTO PITS AS REQUIRED.
8. DEPTH OF PIT NOT TO EXCEED 3500 mm.

GRATE AND FRAME:
1. STEEL GRATES AND FRAMES ARE TO BE FABRICATED FROM MILD STEEL AND HOT DIP GALVANIZED.
2. THE GRATING SHOWN ON THIS DRAWING IS TO BE USED ONLY WHERE THERE IS NO PEDESTRIAN OR PEDAL CYCLIST MOVEMENTS AND WHERE THERE IS A PROBABILITY OF BLOCKAGE DUE TO MAINTENANCE PROCEDURES.
3. GRATING PATTERN AND BAR SIZES MAY VARY BUT SHALL BE CLASS D AND BICYCLE SAFE IN ACCORDANCE WITH AS 3996 UNLESS OTHERWISE STATED.
4. PROVIDE 75 X 12 MAIN BARS OF FRAME 89 X 89 X 6.5L.
5. PROVIDE 60 X 63 X 6.5L OF FRAME.
6. PROVIDE 75 X 12 MAIN BARS 660 X 63 X 6.5L OF FRAME.
7. PROVIDE 24 DIA. CROSS BARS 820.
8. PROVIDE 75 X 12 GRATING FRAME 75 X 12 GRATING 690 X 6 FLAT OF FRAME.
9. PROVIDE 800 CROSS BARS 640.
10. PROVIDE 193.5 X 18 MAIN BARS 200 X 12 (18) TYP.
11. PROVIDE 200 X 150 X 6 DIA. STIRRUP AT EACH CORNER.
12. PROVIDE 800 X 90 X 6 FRAME 89 X 89 X 6.5 L OF FRAME.
13. PROVIDE 75 X 12 MAIN BARS 660 X 63 X 6.5L OF FRAME.
14. PROVIDE 90 X 6 FRAME 89 X 89 X 6.5 L OF FRAME.