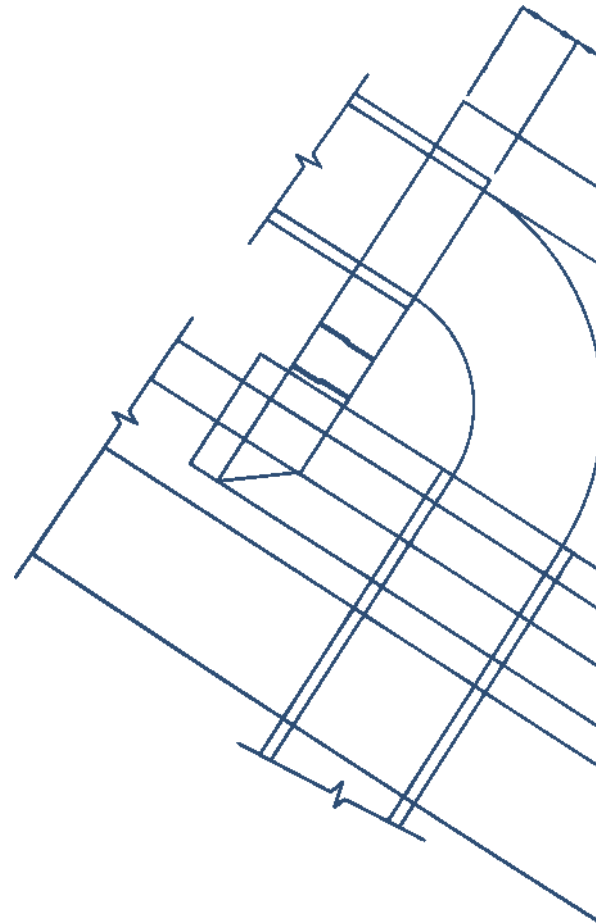
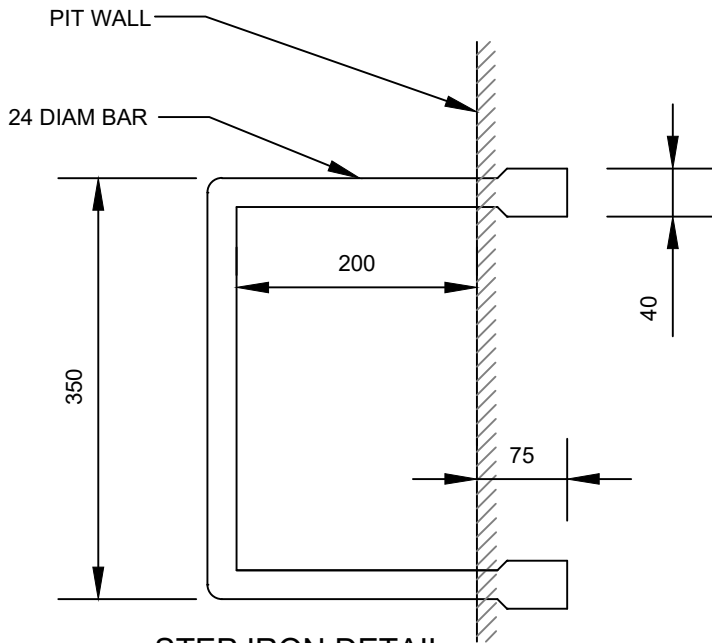


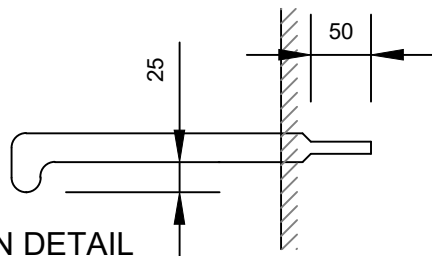
Pit Details



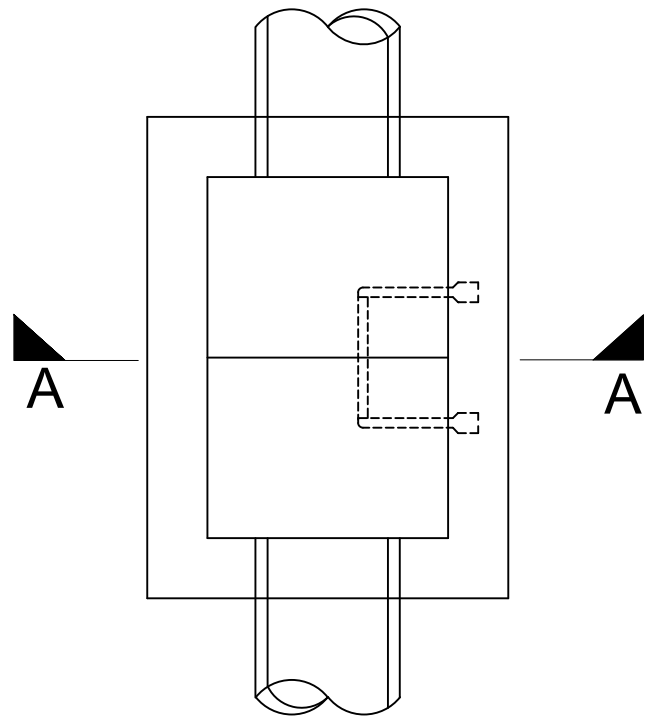
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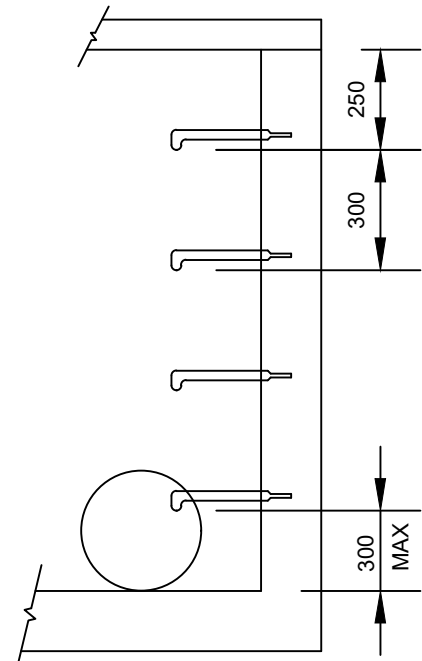
**STEP IRON DETAIL
PLAN VIEW**



**STEP IRON DETAIL
SECTION VIEW**



PLAN



SECTION A-A

NOTES:

1. PITS DEEPER THAN 900mm SHALL BE FITTED WITH STEP IRONS
2. STEP IRONS SHALL BE LOCATED:
 - DIRECTLY BELOW THE OPENING IN THE COVER
 - DESIRABLY ON A WALL WITHOUT PIPE OPENINGS
 - DESIRABLY ON ONE OF THE LONG SIDES OF THE PIT
3. MATERIAL FOR STEP IRONS SHALL BE STRUCTURAL GRADE 250 TO AS1204
4. STEP IRONS SHALL HAVE SHARP EDGES ROUNDED AND BE HOT DIP GALVANISED AFTER FABRICATION
5. APPROVED PROPRIETARY STEP IRONS MAY BE USED AND SHALL BE INSTALLED ACCORDING TO THE MANUFACTURERS INSTRUCTIONS

ALL MEASUREMENTS IN MILLIMETRES



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STEP IRONS

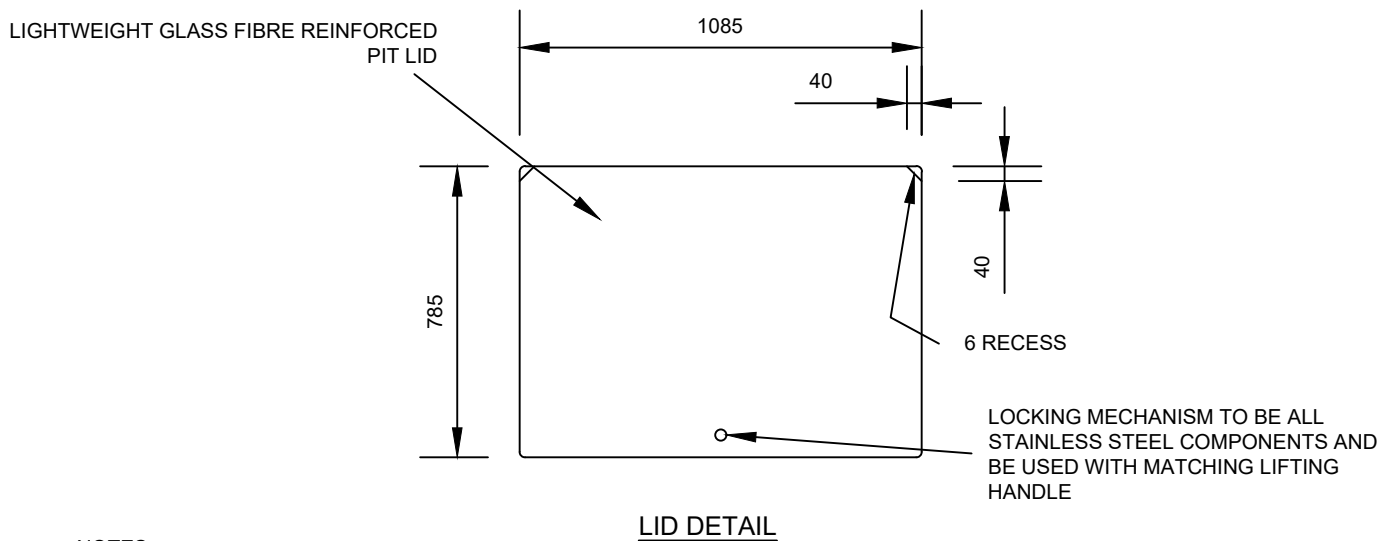
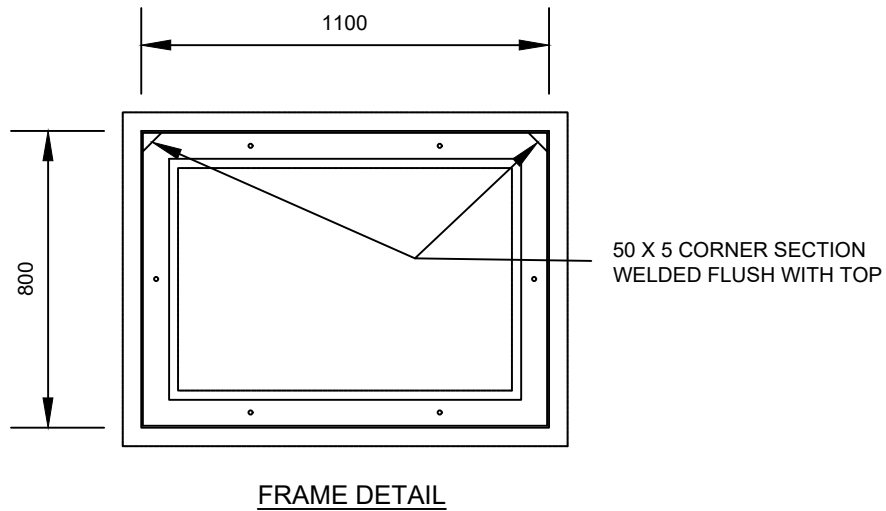
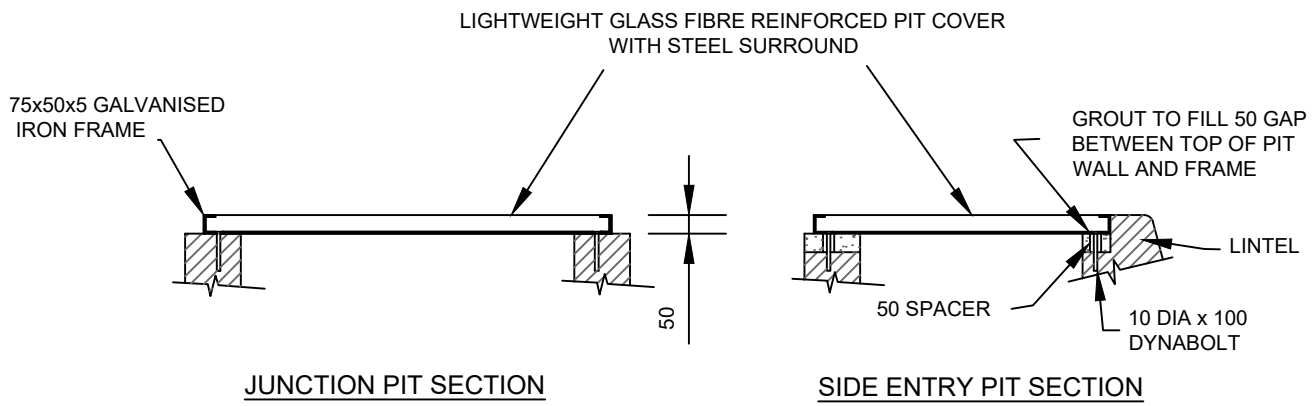
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Manager Delivery & Assets

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D 200

NOT TO SCALE



NOTES:

1. ALL DIMENSIONS ARE IN MILLIMETRES
2. THESE LIDS ARE TO BE USED ON ALL NEW PITS AND PIT RECONSTRUCTIONS WITHIN NATURE STRIPS, EASEMENTS AND RESERVES
3. FOR LIDS WITHIN THE ROAD CARRIAGEWAY USE RELEVANT RATED GATIC LID OR AN APPROVED EQUIVALENT
4. DETAILS GIVEN ARE BASED ON PIT LIDS SUPPLIED BY 'TERRA FIRMA ENGINEERING P/L'. OTHER APPROVED MANUFACTURERS MAY BE USED. LOCKING MECHANISMS MUST USE THE SAME KEY.
5. DIMENSIONS GIVEN ARE FOR 900x600 JP'S AND 900x675 SEP'S.

ALL MEASUREMENTS IN MILLIMETRES

GLASS FIBRE REINFORCED PIT COVERS

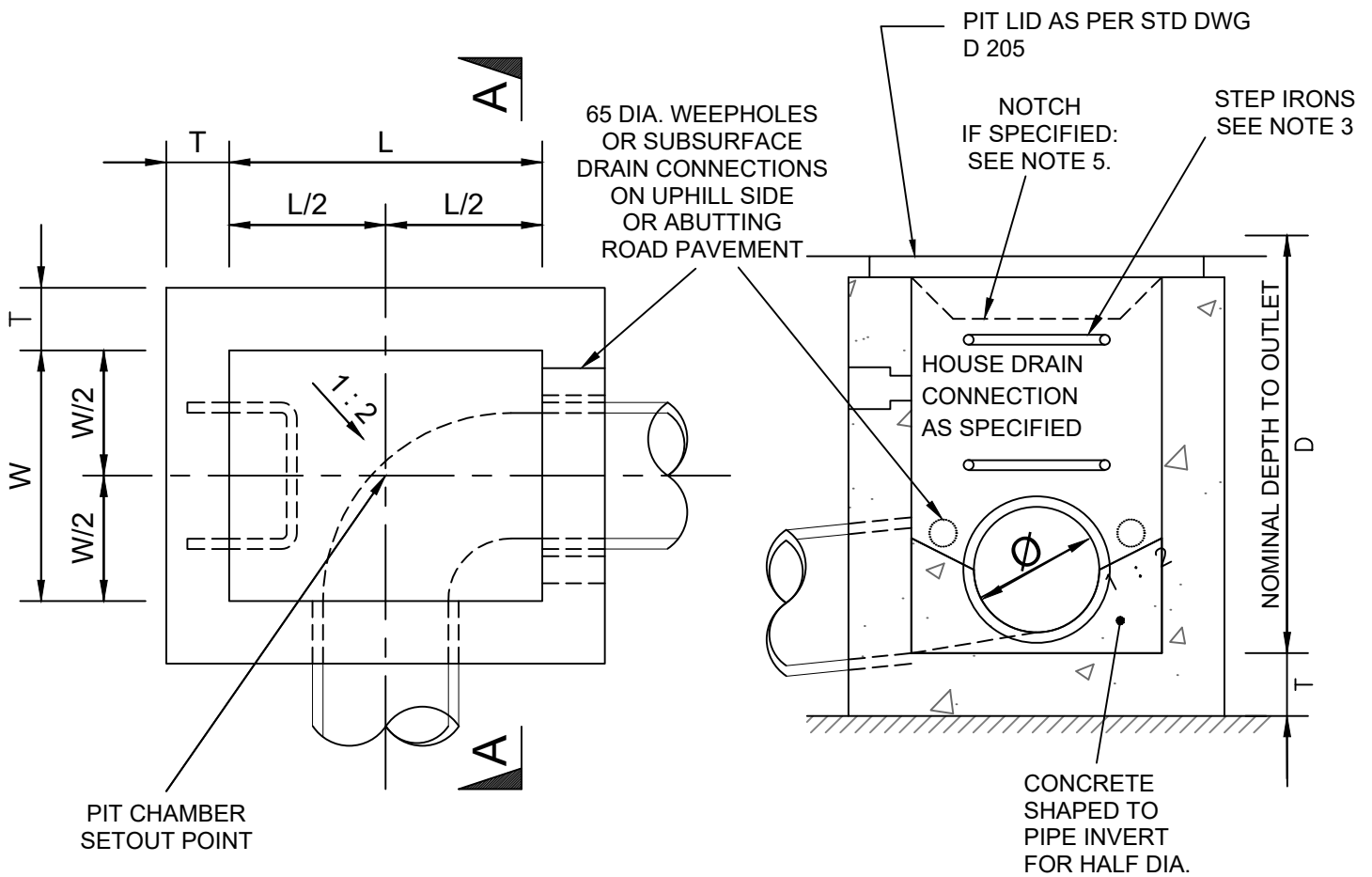
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PLAN

SECTION A-A

| INTERNAL SIZE (L X W) | MAX DEPTH (D) | MAX PIPE DIA (ϕ) | WALL THICKNESS (T) |
|--|------------------|----------------------------|--------------------------|
| 600 X 600 | 900 | 300 | 150 |
| 900 X 600 | 2400 | 600 | 150 |
| 1000 X 750 | 2400 | 750 | 150 |
| LARGER SIZES TO BE SPECIFIED BY ENGINEER | | | |

NOTES:

1. PIT WALLS ARE TO BE REINFORCED WITH SL72 MESH UNLESS SPECIFIED OTHERWISE
2. PIT WALLS ARE TO BE PLASTERED AS REQUIRED TO PRODUCE A SMOOTH CHAMBER WITHOUT VOIDS
3. USE STEP IRONS AS PER VICROADS STD DWG 1041 OR AN APPROVED EQUIVALENT FOR ALL PITS DEEPER THAN 900.
4. LIDS AND FRAMES AS SPECIFIED IN STD DWG D 205.
5. PROVIDE LIGHTWEIGHT COMPOSITE PIT LID AS PER BCC STD DWG D 205.
6. PROVIDE 100mm DEEP NOTCH IN WALL WHERE SPECIFIED FOR TABLE DRAIN INLET.

ALL MEASUREMENTS IN MILLIMETRES



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JUNCTION PIT

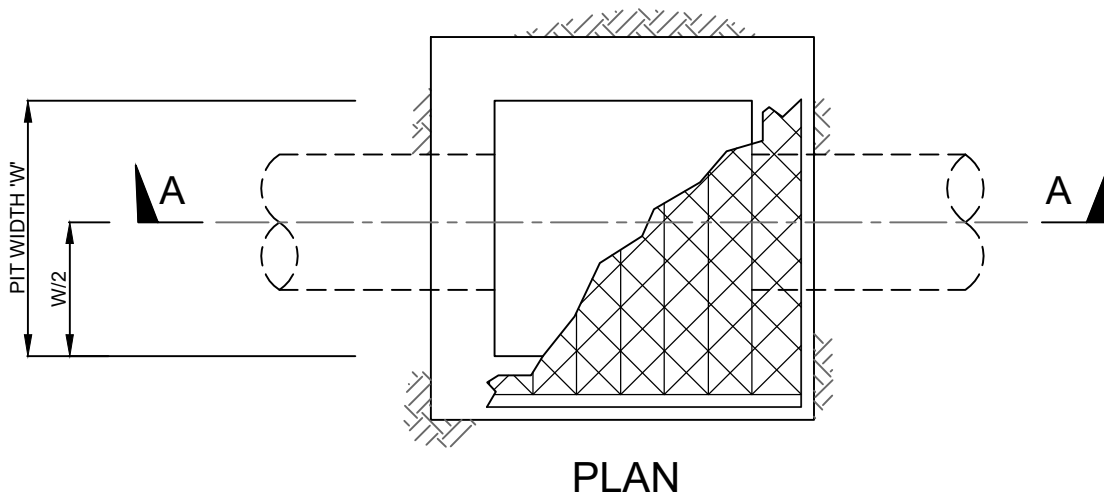
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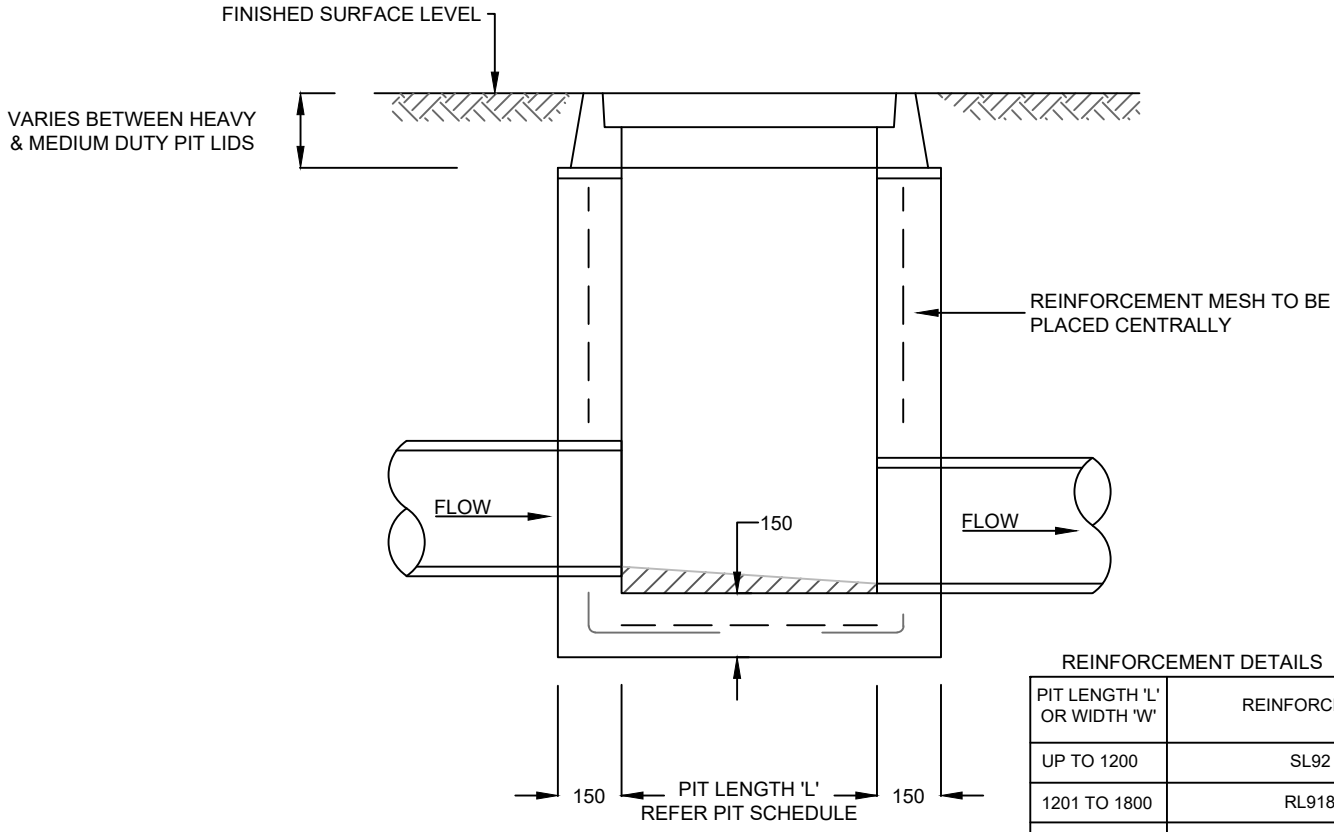
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D 210

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PLAN



SECTION A-A

REINFORCEMENT DETAILS

| PIT LENGTH 'L' OR WIDTH 'W' | REINFORCEMENT |
|-----------------------------|---------------|
| UP TO 1200 | SL92 |
| 1201 TO 1800 | RL918 |
| 1801 TO 2400 | RL1218 |

MINIMUM PIT SIZES (EASEMENTS)

| PIT DEPTH | PIT SIZE |
|--------------|-----------|
| < 1000 | 600 x 600 |
| 1000 to 1200 | 600 x 900 |
| > 1200 | 900 x 900 |

MINIMUM PIT SIZES (ROAD RESERVE)

| PIT DEPTH | PIT SIZE |
|-----------|-----------|
| < 1200 | 600 x 900 |
| > 1200 | 900 x 900 |

NOTES:

1. HEAVY DUTY COVERS TO BE USED WHEN SUBJECT TO TRAFFICABLE LOADS (AS3996 CLASS D - 210 kN) OR APPROVED EQUIVALENT. MEDIUM DUTY COVERS TO BE USED IN OFF ROAD USE (AS3996 CLASS B - 80kN) OR APPROVED EQUIVALENT.
2. CONCRETE STRENGTH FC = 25MPa. (MIN) AT 28 DAYS.
3. JUNCTION PIT IN ROAD RESERVE TO HAVE MINIMUM INTERNAL PIT DIMENSIONS OF 600 X 900.

ALL MEASUREMENTS IN MILLIMETRES



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JUNCTION PIT - HEAVY DUTY/LIGHT DUTY/
FIBRE GLASS

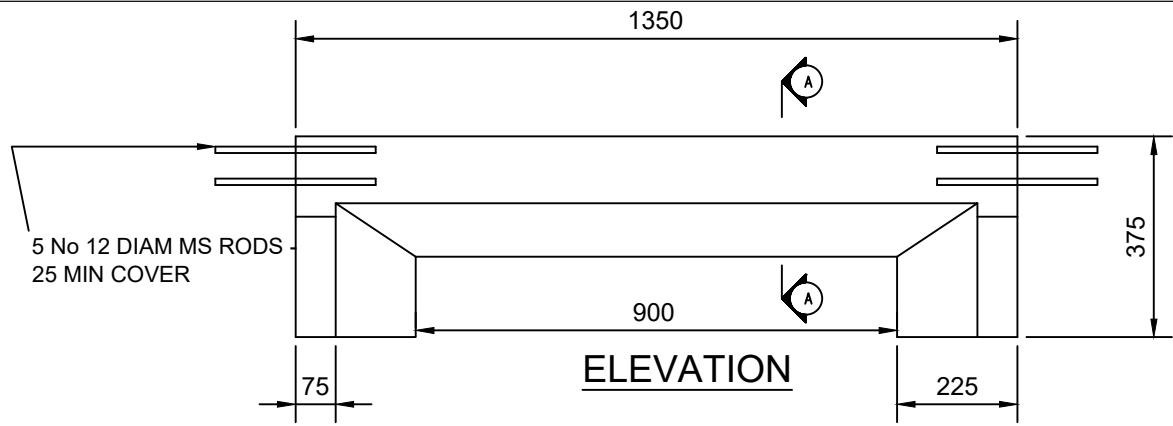
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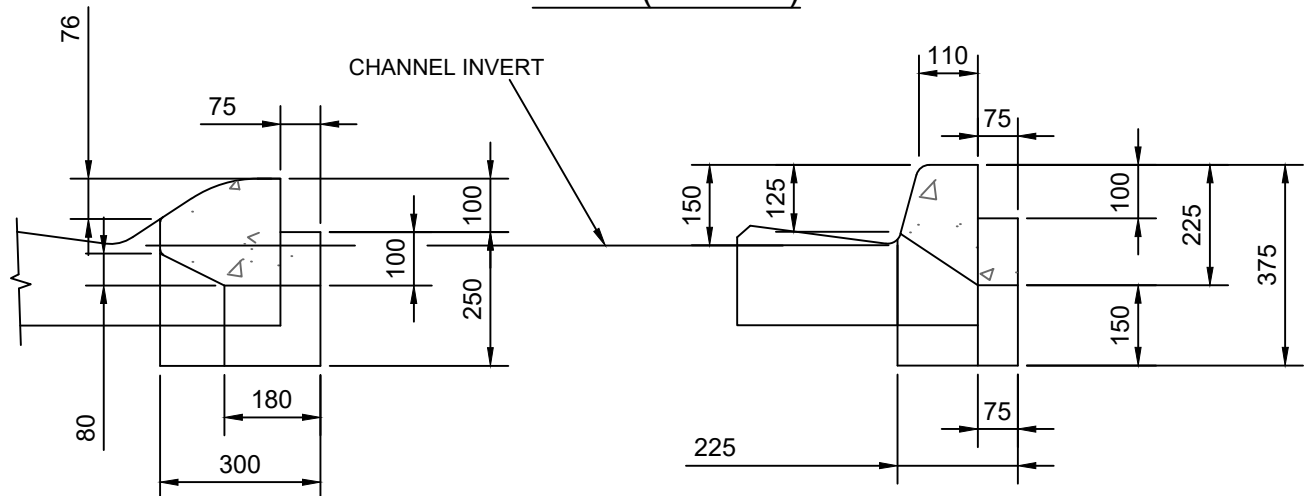
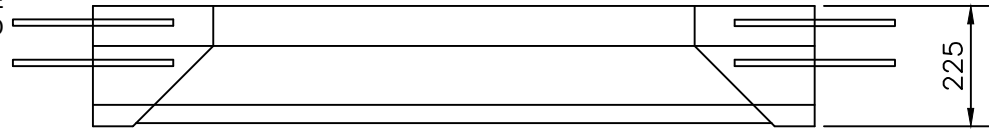
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D 215

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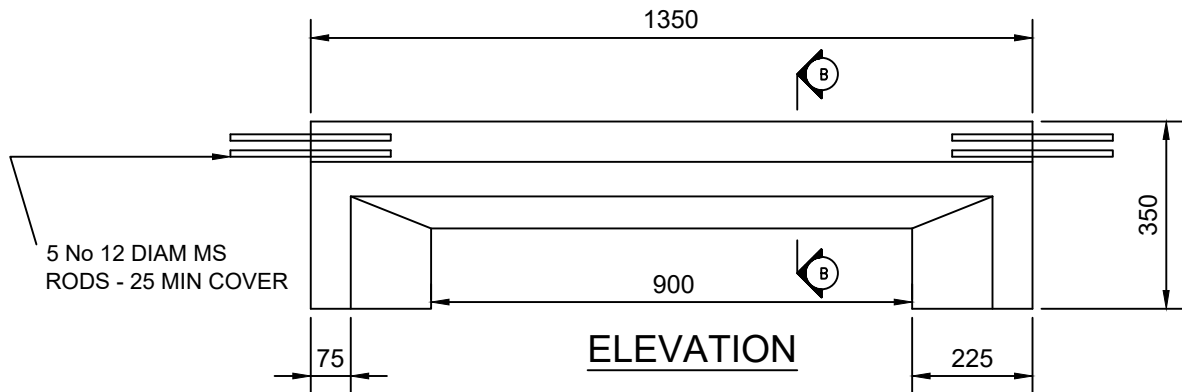


LINTEL TO BE CONSTRUCTED
USING 25 Mpa CONCRETE
VIBRATED IN MOULD

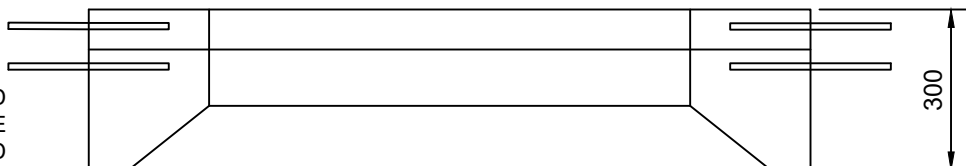


SECTION B-B

SECTION A-A



LINTEL TO BE CONSTRUCTED
USING 25 Mpa CONCRETE
VIBRATED IN MOULD



ALL MEASUREMENTS IN MILLIMETRES



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SEP PRECAST LINTEL

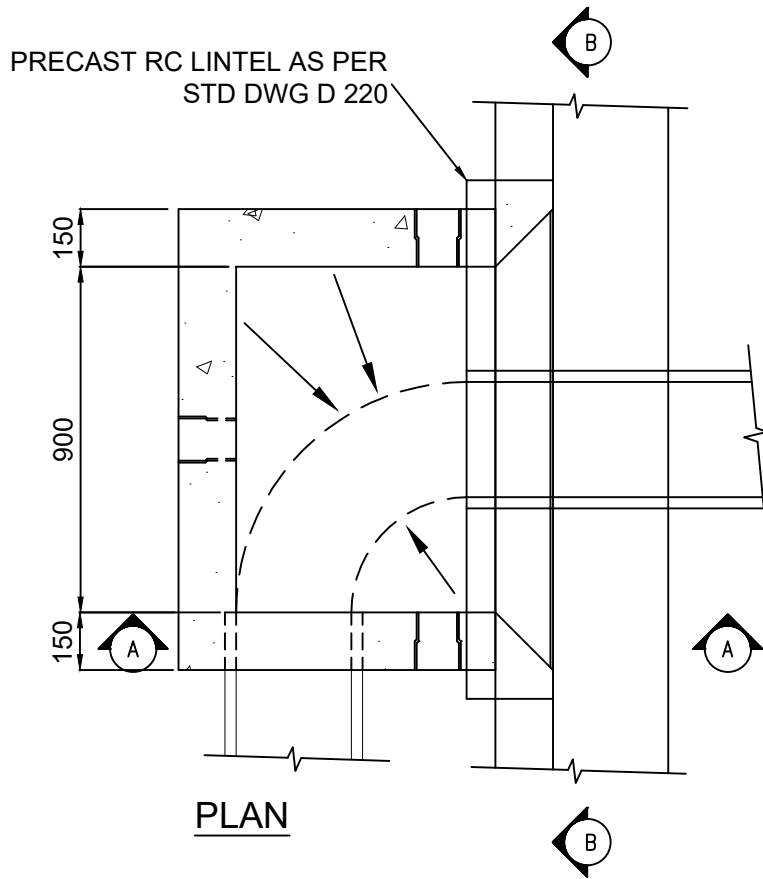
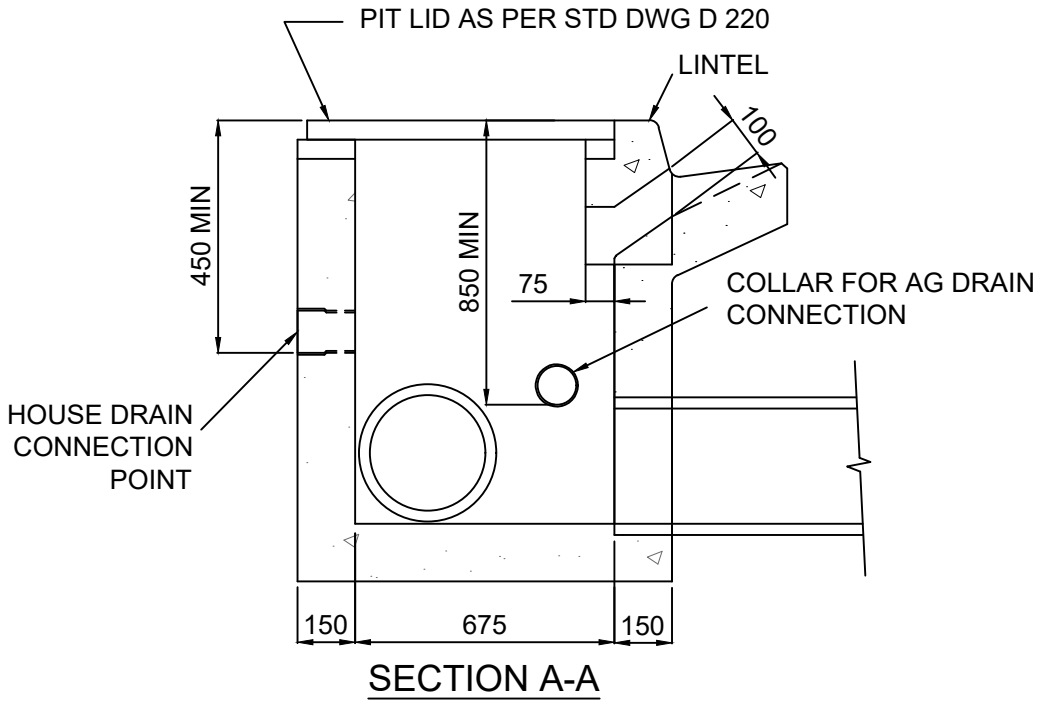
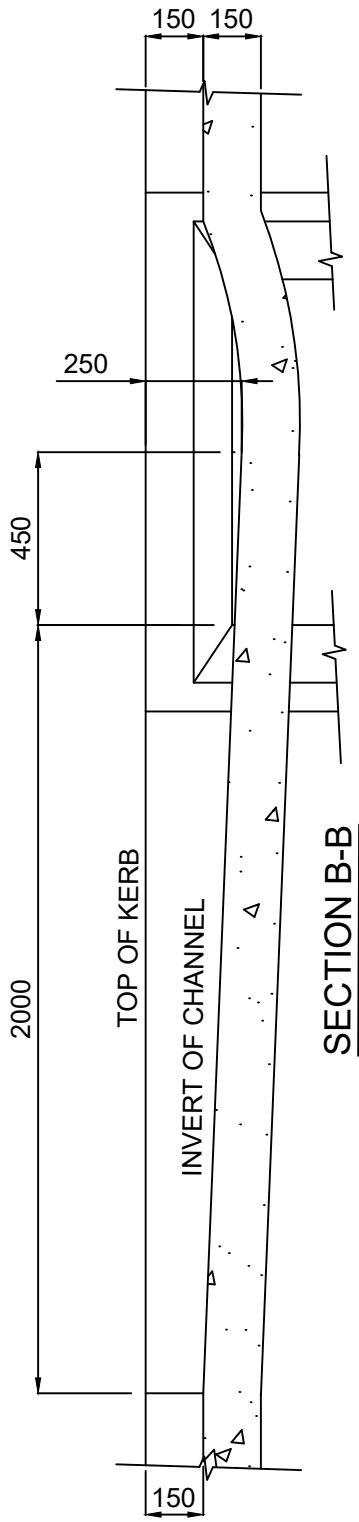
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D 220

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NOTES:

1. PIT LID AS PER D 205
2. STEP IRONS TO USED FOR PITS WITH DEPTHS GREATER THAN 900mm.
3. WHENEVER DOUBLE SEP's ARE NEEDED CONSTRUCT TWO SEPARATE PITS 300 APART.
4. HOUSE DRAIN CONNECTION COLLARS ARE TO BE LOCATED TO GIVE ADEQUATE FALL FROM LOWEST POINT OF ALLOTMENT.

ALL MEASUREMENTS IN MILLIMETRES



SIDE ENTRY PIT B-TYPE KERB

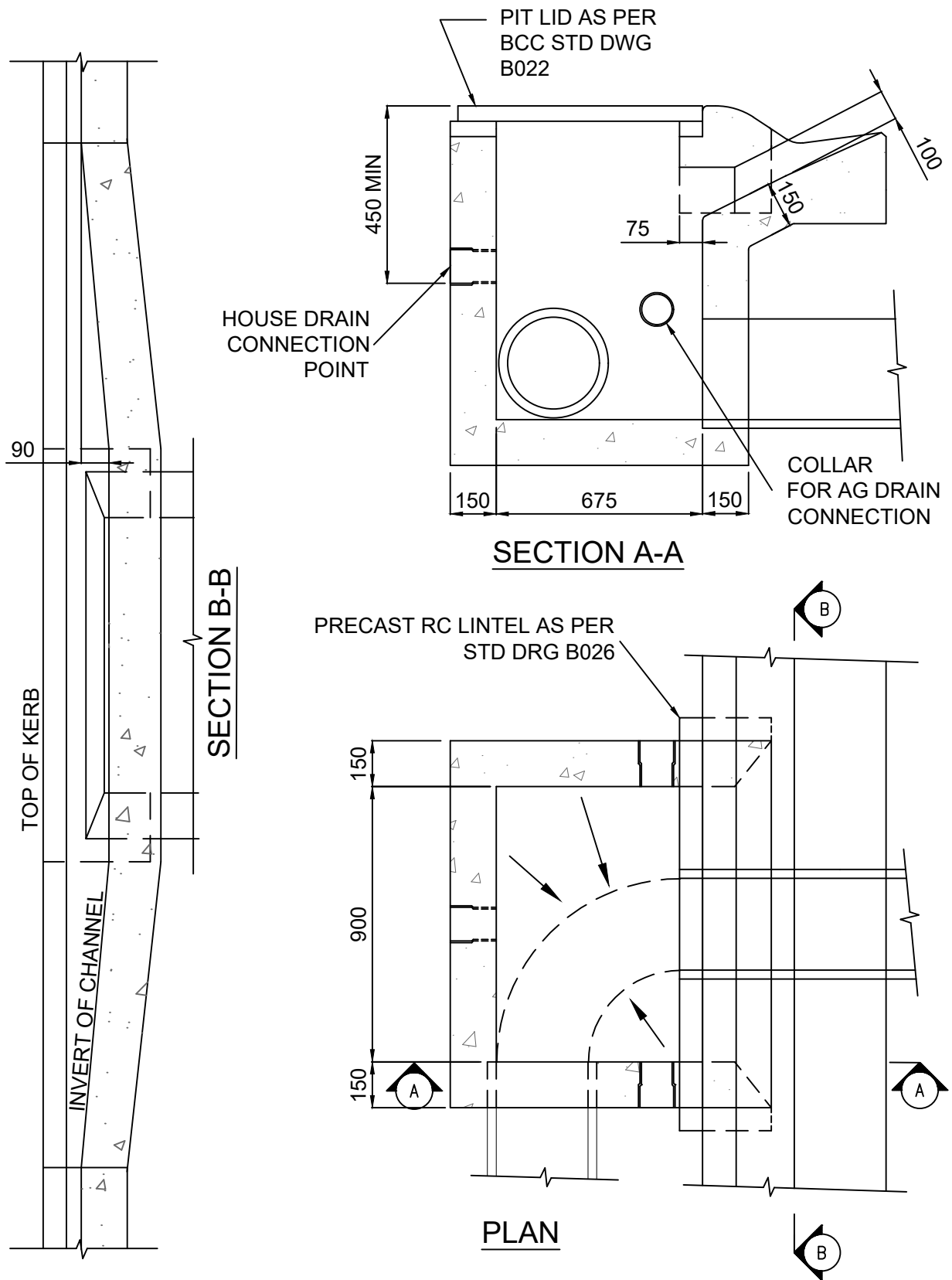
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D 225

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NOTES

1. PIT LID AS PER BCC STD DWG D205.
2. STEP IRONS TO BE USED FOR PITS WITH DEPTHS GREATER THAN 900mm.
3. WHENEVER DOUBLE SEP'S ARE NEEDED CONSTRUCT TWO SEPARATE PITS 300 APART.
4. HOUSE DRAIN CONNECTION COLLARS ARE TO BE LOCATED TO GIVE ADEQUATE FALL FROM LOWEST POINT OF ALLOTMENT.

ALL MEASUREMENTS IN MILLIMETRES



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SIDE ENTRY PIT SM-TYPE KERB

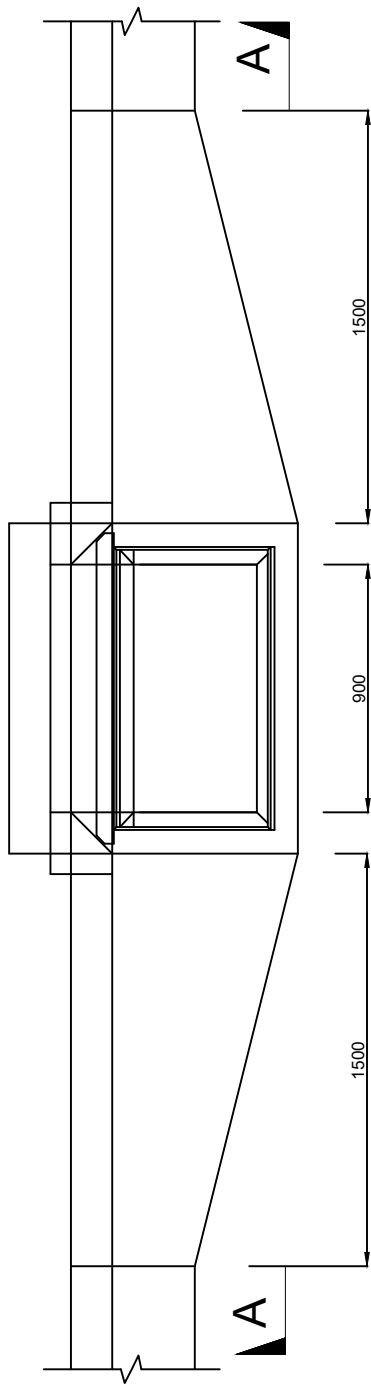
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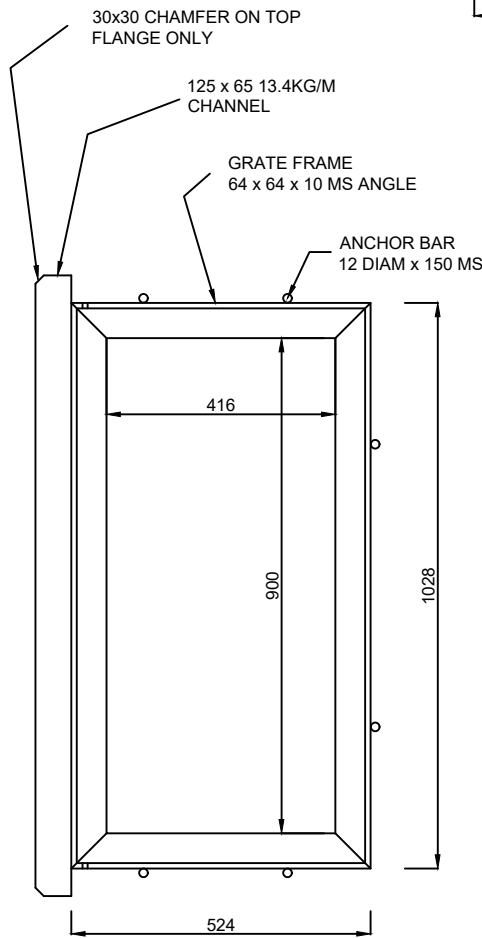
LAST UPDATED JULY 2019

D 230

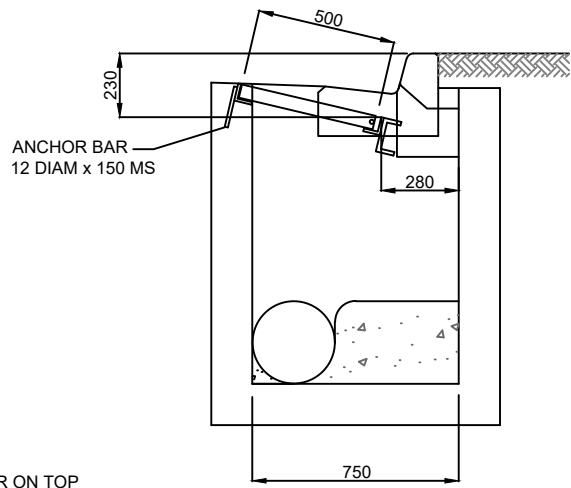
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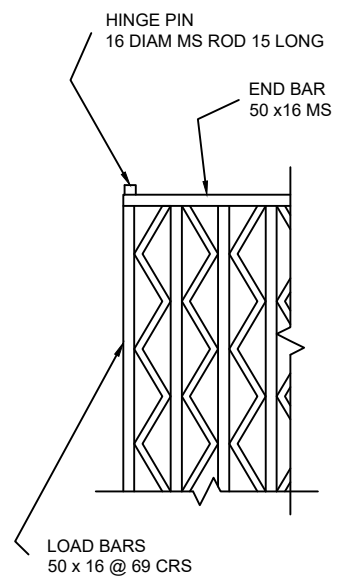
PLAN
GRATE REMOVED



GRATE FRAME



SECTION A-A



GRATE DETAIL
(O/A SIZE 500 x 1000)

NOTES:

1. DETAILS FOR THE ABOVE GRATE HAVE BEEN DERIVED FROM THAT MANUFACTURED BY 'R & S GRATING'. SIMILAR BICYCLE SAFE GRATINGS FROM OTHER MANUFACTURERS MAY BE USED.
2. GRATE FRAME SHALL BE CONSTRUCTED FROM 64x64x10 MS ANGLE AND BE WELDED TO 25x65 13.4kg/m TF CHANNEL
3. GRATE UNITS SHALL BE MADE FROM 50x16 MS WITH 40x12 WEAVE BARS AND CONTINUOUSLY WELDED ALL ROUND
4. GRATE AND FRAME SHALL BE HOT DIP GALVANISED TO AS 1650/1989 UNLESS SPECIFIED OTHERWISE.
5. PITS DEEPER THAN 1000 SHALL BE FITTED WITH STEP IRONS

ALL MEASUREMENTS IN MILLIMETRES



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GRATED SIDE ENTRY PIT

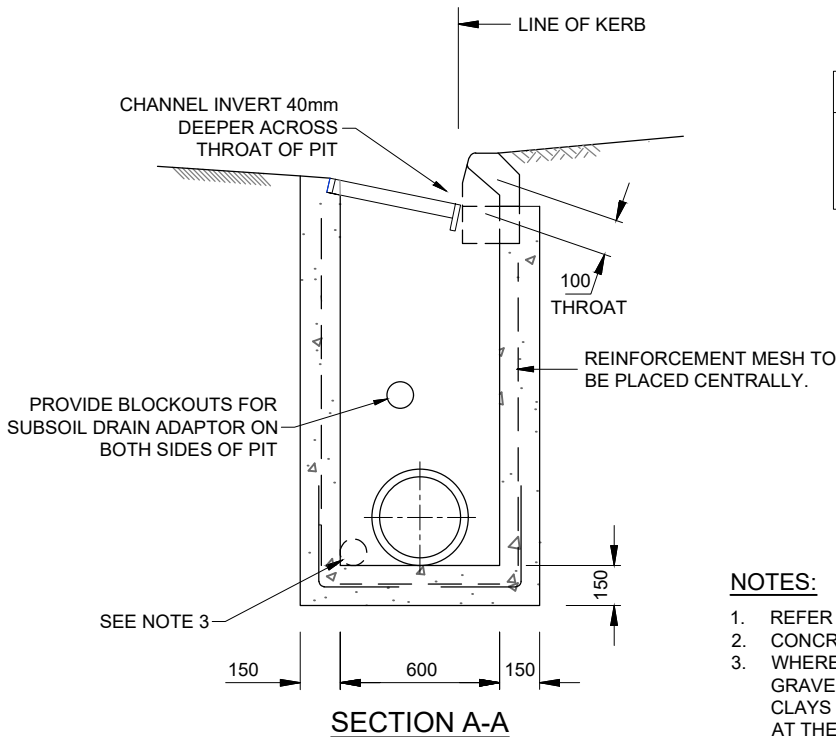
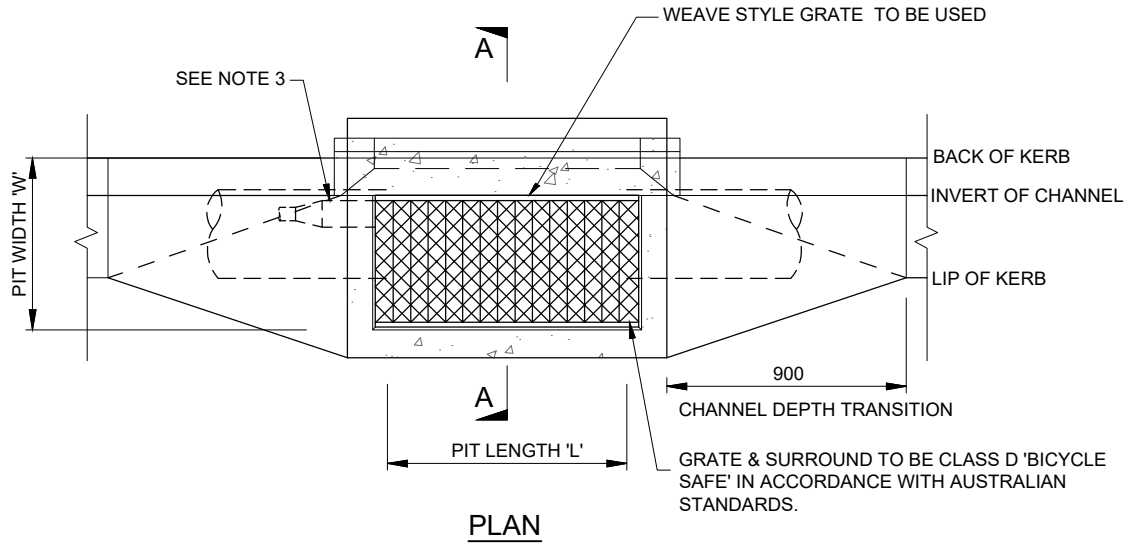
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D 240

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REINFORCEMENT DETAILS

| PIT LENGTH 'L' OR WIDTH 'W' | REINFORCEMENT |
|-----------------------------|---------------|
| UP TO 1200 | SL92 |
| 1201 TO 1800 | RL918 |
| 1801 TO 2400 | RL1218 |

NOTES:

1. REFER TO R 150 FOR KERB DETAILS.
2. CONCRETE STRENGTH F'C = 25MPa. (MIN) AT 28 DAYS.
3. WHERE NO SUBSOIL DRAIN INSTALLED, OR WHERE GRAVEL BACKFILL IS USED, OR WHERE EXPANSIVE CLAYS ARE PRESENT; INSTALL 1m LONG SUBSOIL DRAIN AT THE BOTTOM OF THE PIT.
4. STEP IRONS REQUIRED FOR DEPTHS GREATER THAN 900mm. REFER D 200 FOR THE DETAIL DRAWING.

ALL MEASUREMENTS IN MILLIMETRES



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**GRATED SIDE ENTRY PIT INLET
WITH CONCRETE SURROUND**

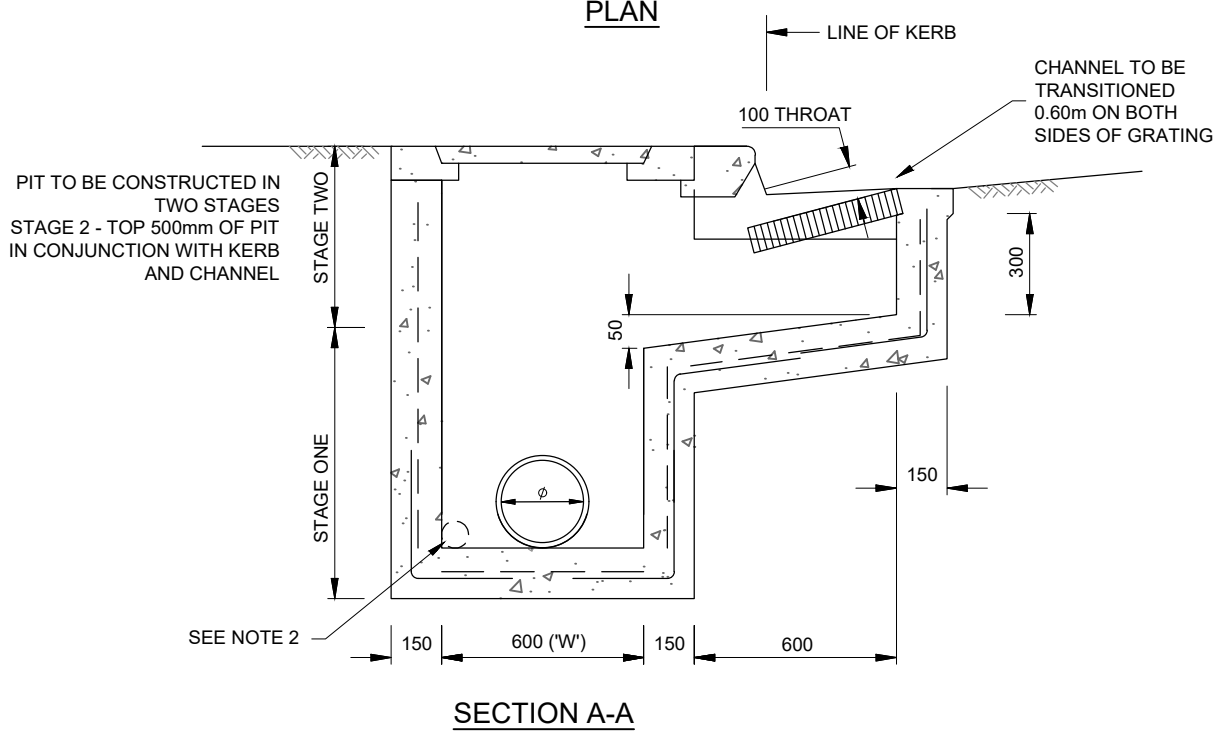
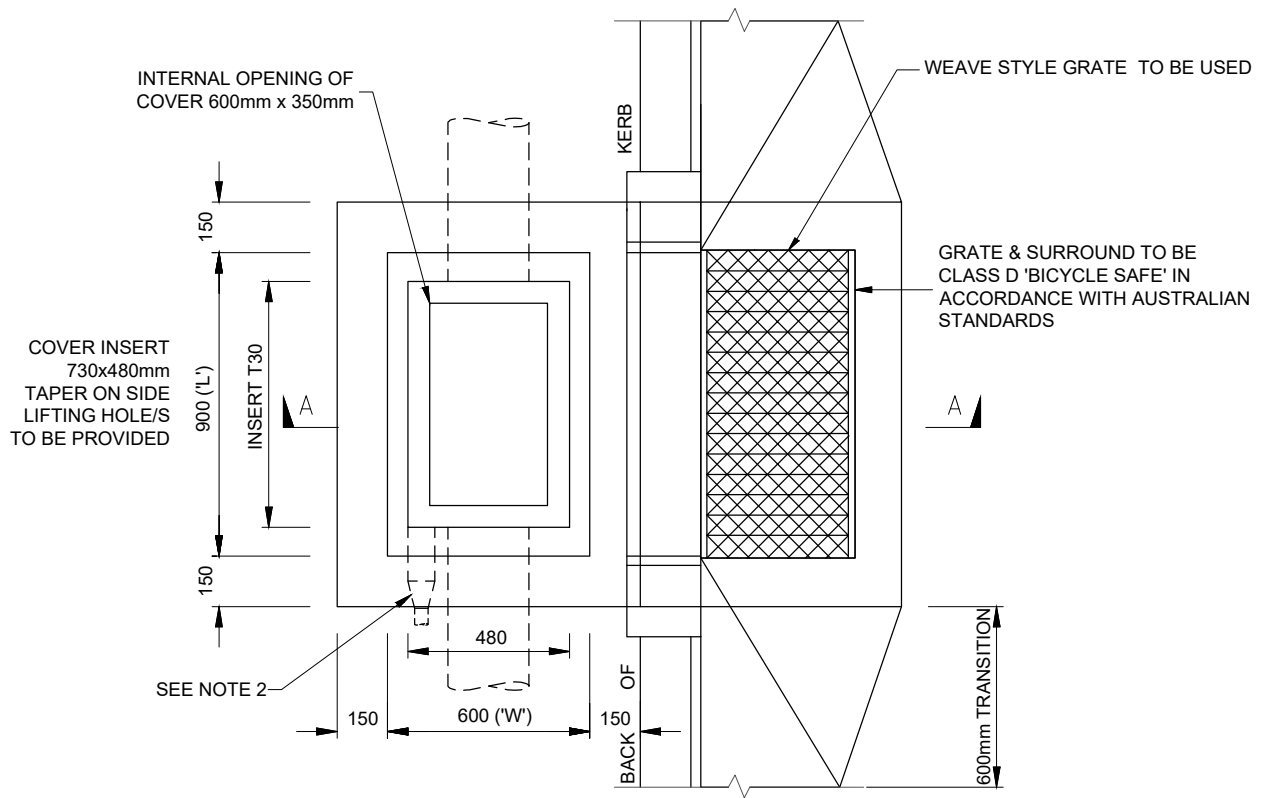
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NOTES:

1. CONCRETE STRENGTH F'C = 25MPa. (MIN) AT 28 DAYS
2. WHERE NO SUBSOIL DRAIN INSTALLED, OR WHERE GRAVEL BACKFILL IS USED, OR WHERE EXPANSIVE CLAYS ARE PRESENT; INSTALL 1m LONG SUBSOIL DRAIN AT THE BOTTOM OF THE PIT.
3. STEP IRONS ARE REQUIRED FOR DEPTHS GREATER THAN 900mm. REFER D 200 FOR THE DETAIL DRAWING.

ALL MEASUREMENTS IN MILLIMETRES



SIDE ENTRY PIT WITH GRATING

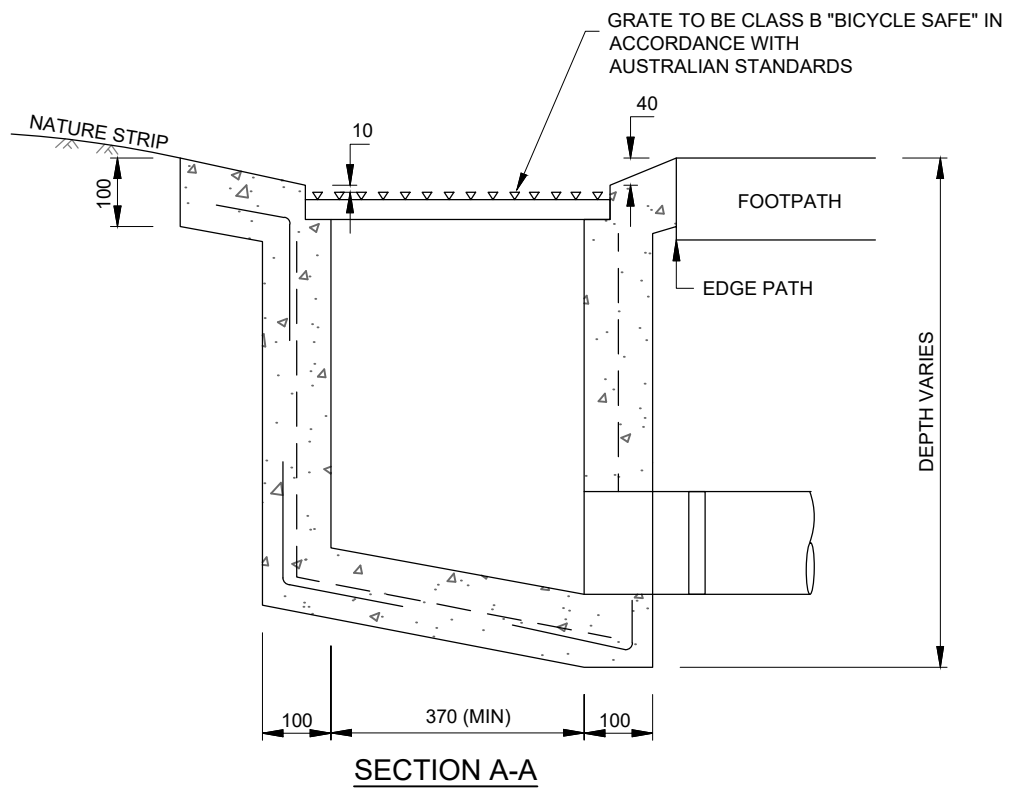
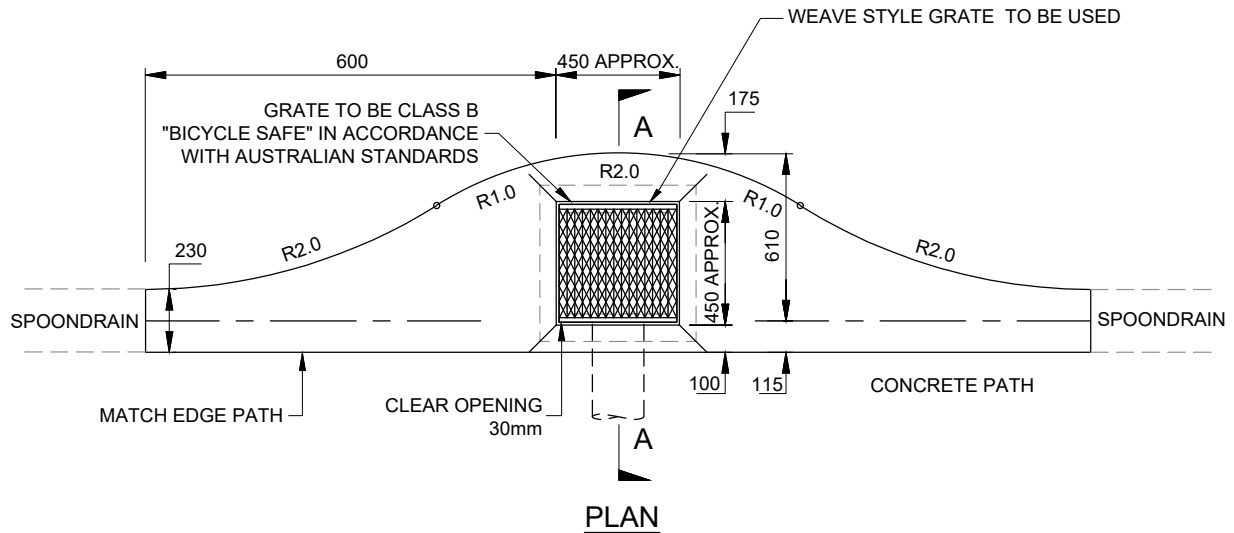
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D 255

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NOTES:

1. EDGE CONCRETE AROUND PERIMETER OF GRATE.
2. TOP OF GRATE 50mm BELOW EDGE OF PATH.
3. DO NOT BOND GRATE TO TO CONCRETE TO ALLOW EASY ACCESS TO PIT.
4. CONCRETE TO BE SMOOTH TROWELLED FINISH.
5. GRATE FRAME TO BE OILED IF INSTALLED IN WET CONCRETE.
6. CONCRETE STRENGTH F'C = 25MPa. (MIN) AT 28 DAYS

ALL MEASUREMENTS IN MILLIMETRES

SPOON PIT WITH GRATING

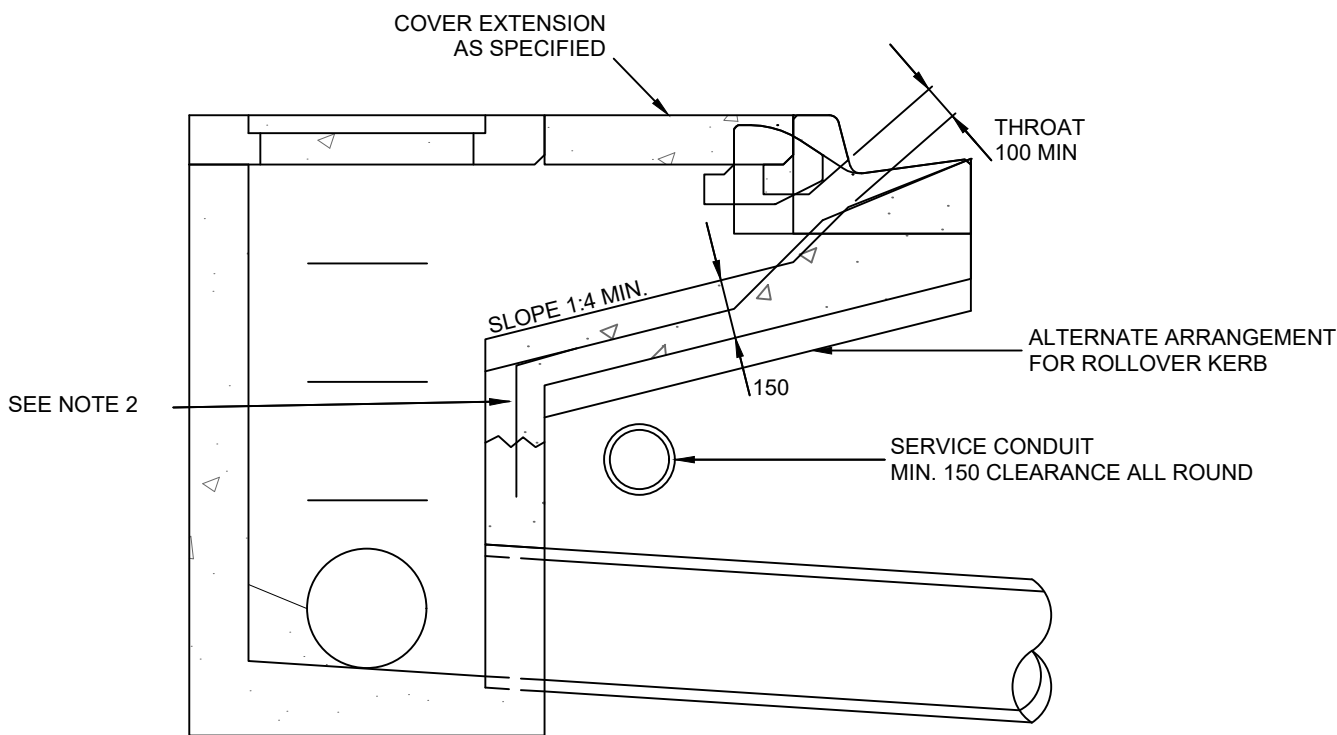
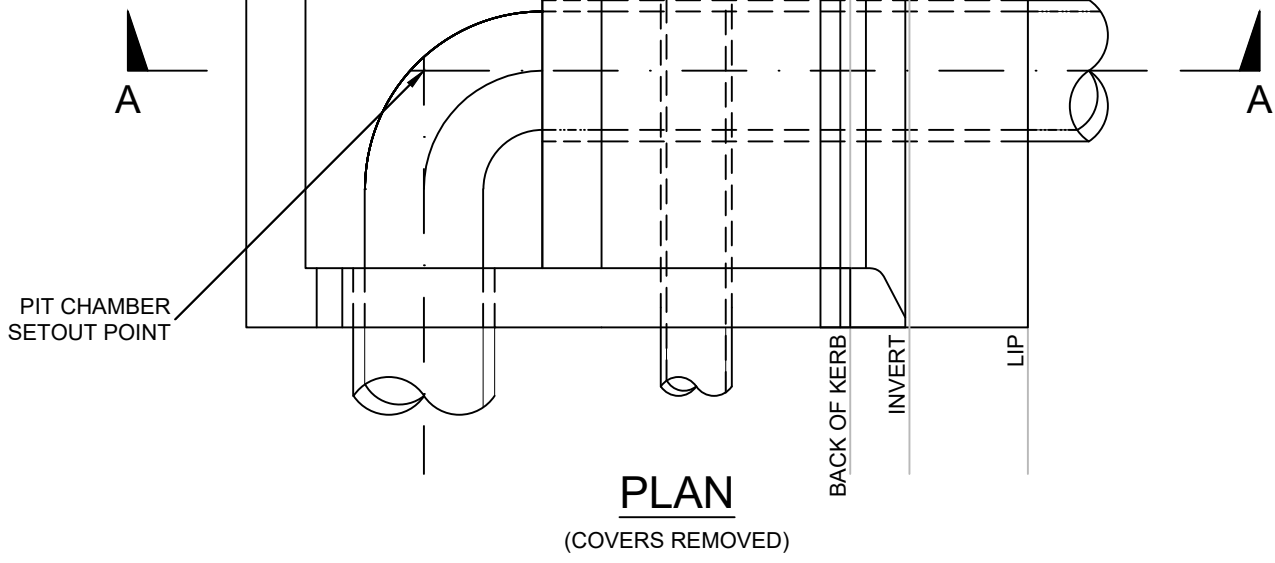
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NOTES:

1. FOR STANDARD COVER EXTENSIONS REFER VICROADS STANDARD DRAWING SD1051 ISSUE C
2. Y12 DEFORMED STARTER BARS TO BE PROVIDED WHERE EXTENDED THROAT IS TO BE CONSTRUCTED TO AN EXISTING PIT.

ALL MEASUREMENTS IN MILLIMETRES



EXTENDED THROAT SIDE ENTRY PIT

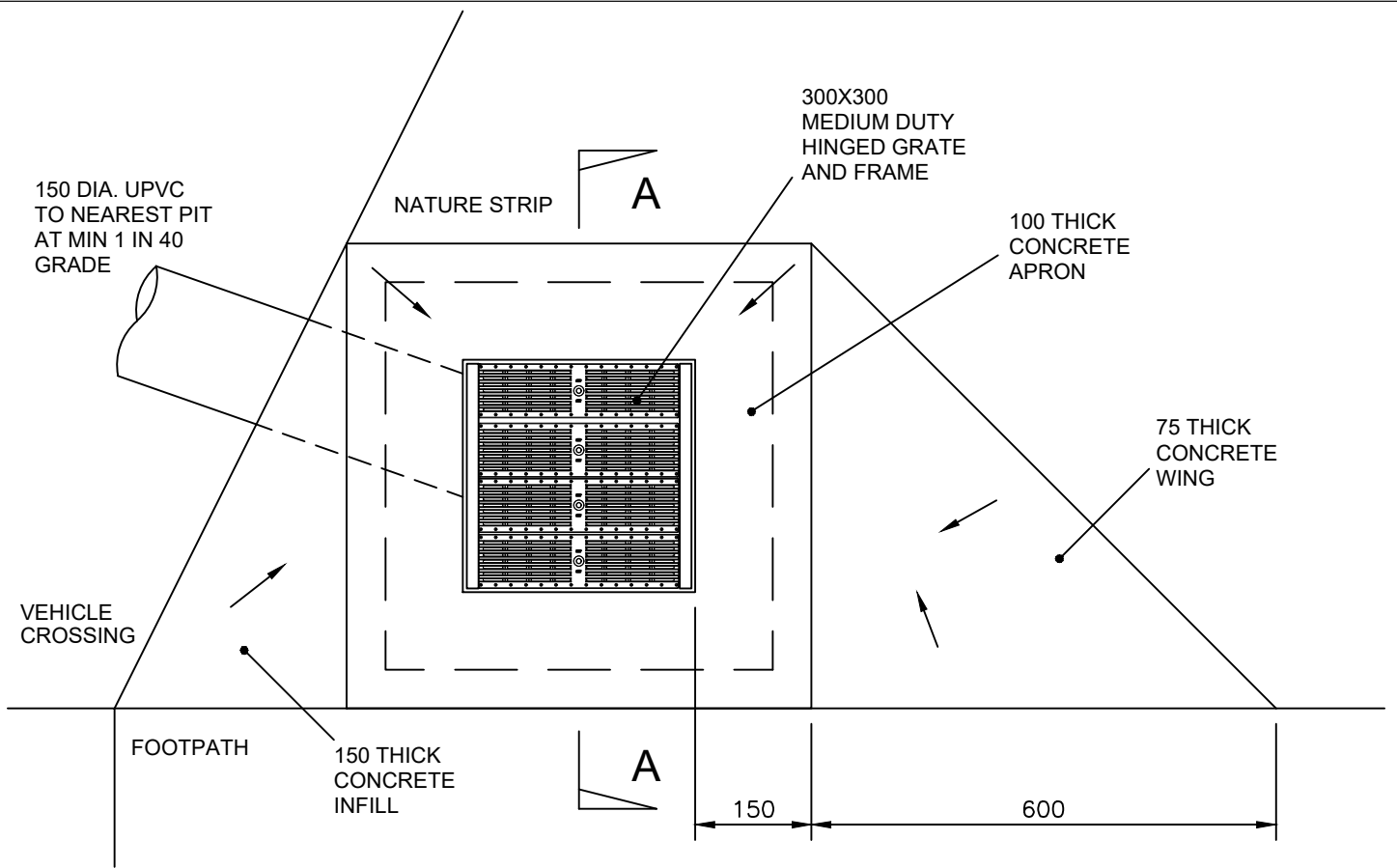
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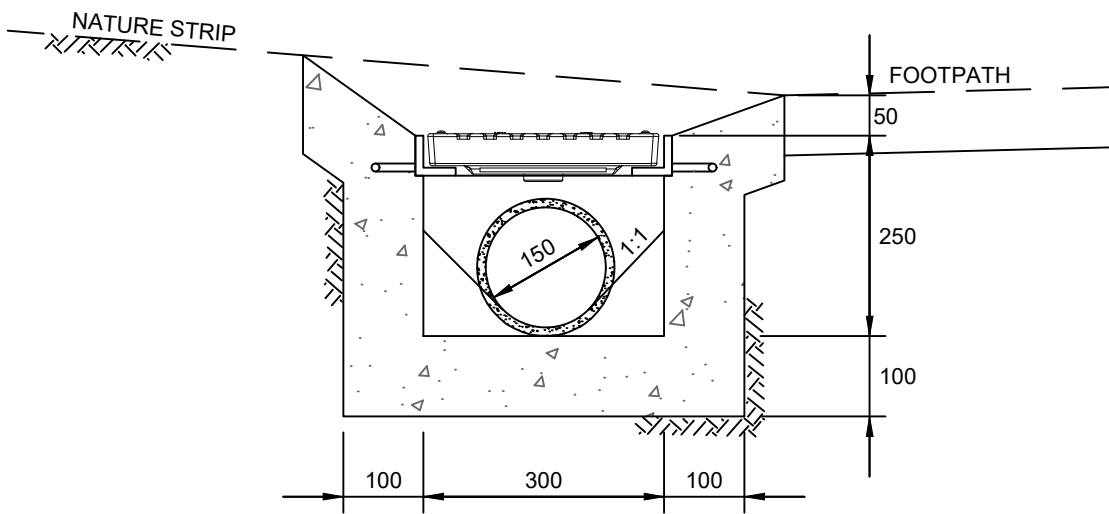
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D 265

NOT TO SCALE



PLAN



SECTION A-A

NOTES:

1. GRATE & FRAME TO BE HOT DIPPED GALVANISED AFTER WELDING.
2. GRATED PIT IS NOT TO BE LOCATED IN PEDESTRIAN/CYCLE TRAFFIC AREAS
3. HEAL PROOF GRATE TO BE USED FOR PEDESTRIAN TRAFFIC, OTHERWISE WEAVE GRATE IS REQUIRED

ALL MEASUREMENTS IN MILLIMETRES



FOOTPATH GRATED PIT

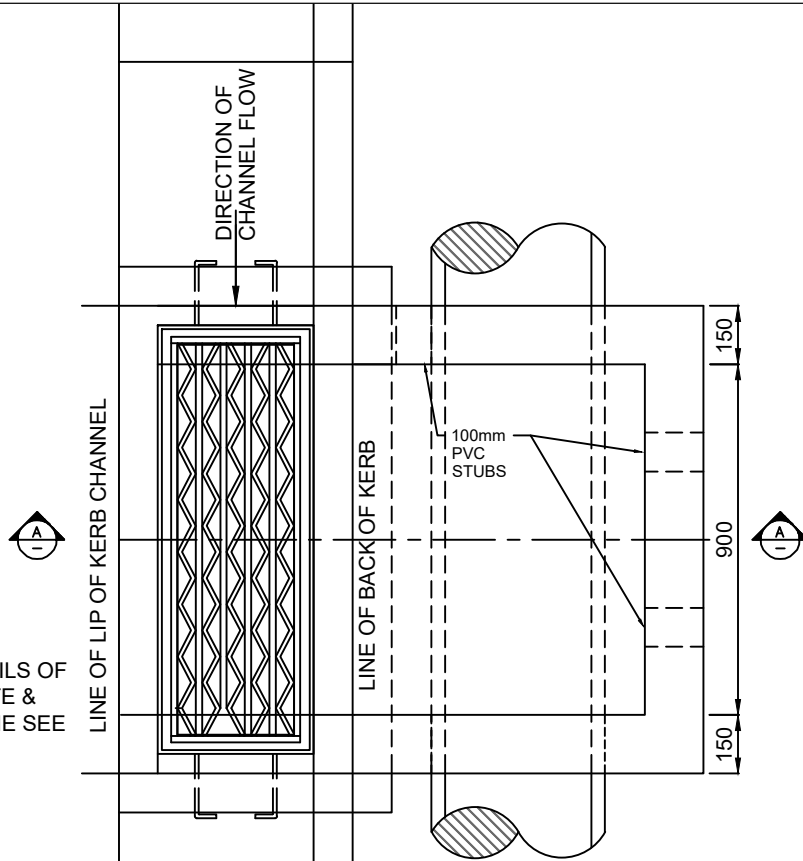
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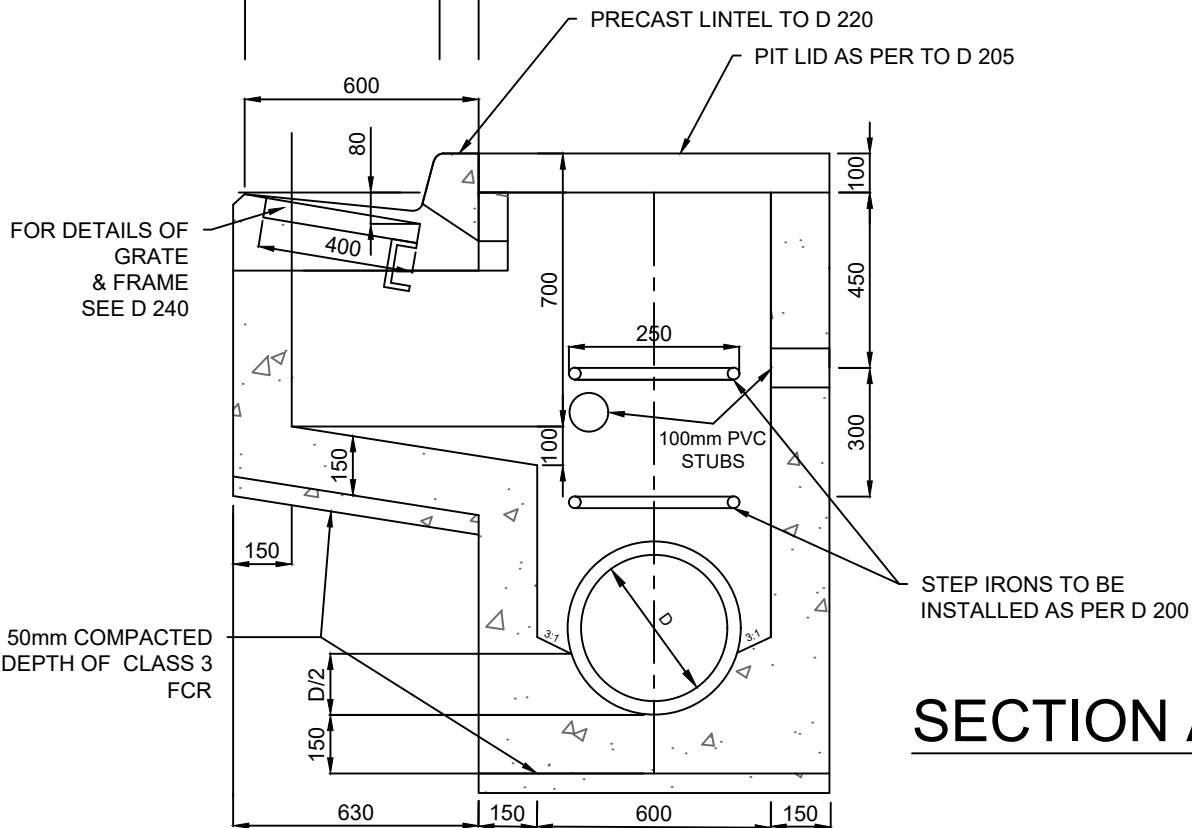


FOR DETAILS OF GRATE & FRAME SEE D 240

NOTES:

1. GRATE & SIDE ENTRY PIT FOR PIPE DIA. UP TO 450mm
2. STEP IRONS TO BE PROVIDED IN ALL PITS GREATER THAN 1000mm IN DEPTH
3. PROVIDE 100mm PVC STUB IN BOTH PIT WALLS 700mm BELOW SURFACE FOR AG DRAIN (ON BOTH ENDS OF PIT AT LOW POINT).
4. PROVIDE 2 x 100mm PVC STUBS IN REAR WALL OF PIT 500mm BELOW SURFACE FOR HOUSE DRAIN CONNECTIONS AS DIRECTED.
5. CONCRETE STRENGTH F'C = 25MPa.

PLAN



FOR DETAILS OF GRATE & FRAME SEE D 240

50mm COMPACTED DEPTH OF CLASS 3 FCR

SECTION A-A

ALL MEASUREMENTS IN MILLIMETRES



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COMBINATION GRATE & SIDE ENTRY PIT

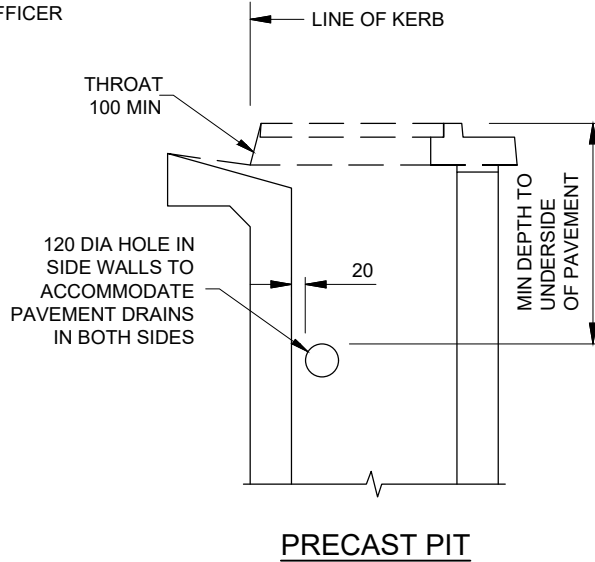
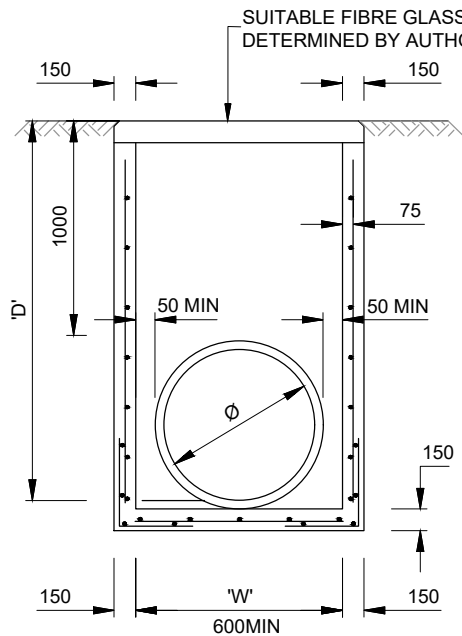
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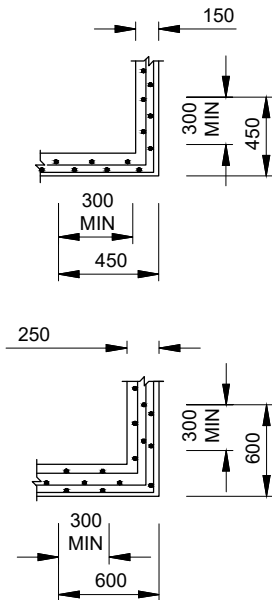
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D 275

NOT TO SCALE



PITS UP TO 3600mm DEPTH



PLAN VIEW

CORNER DETAILS

REINFORCEMENT DETAILS

| PIT LENGTH 'L' OR WIDTH 'W' | REINFORCEMENT |
|-----------------------------|---------------|
| UP TO 1200 | SL92 |
| 1201 TO 1800 | RL918 |
| 1801 TO 2400 | RL1218 |

NOTES:

1. MINIMUM PIT SIZES:

| PIPE DIAMETER | | BASE DIMENSIONS 'W' |
|----------------|----------------|---------------------|
| JP | SEP | |
| UP TO 450Ø | UP TO 450Ø | 600 |
| 450Ø & UPWARDS | 450Ø & UPWARDS | 900 |

- PIPES GREATER THAN 450mm DIA. MAY REQUIRE HAUNCHING. REFER TO D 285.
- FOR DETAILS OF SPECIFIC PITS, REFER TO PIT SCHEDULE.
- PIT REINFORCEMENT SHALL HAVE 300mm MIN LAPS. CLEAR COVER TO BE 50mm MIN. CORNER RETURN REINFORCEMENT MAY BE FABRIC OR EQUIVALENT BARS.
- FOR TOP OF PIT DETAILS, REFER TO PIT SCHEDULE AND RELEVANT STANDARD DRAWINGS.
- PRECAST PITS WITH THINNER WALLS AND LESS STEEL MAY BE ACCEPTED WHERE THE MANUFACTURER CAN DEMONSTRATE THAT THE PITS HAVE ADEQUATE CAPACITY TO SUPPORT A COMBINATION OF THE FOLLOWING LOADS:
 - EARTH PRESSURE WITH 210 kN SURCHARGE
 - HYDROSTATIC PRESSURE
 - COMPACTION PRESSURE (25 kPa MIN)
 - VERTICAL LOAD 210 kN
- SUBSURFACE DRAIN HOLES TO BE SEALED IF NOT USED.
- CONCRETE STRENGTH F'C = 25MPa. (MIN) AT 28 DAYS.
- EXCAVATED MATERIAL SHOULD NOT BE USED AROUND PIT SURROUND. 3% CEMENT STABILISER MUST BE USED.
- STEP IRONS ARE REQUIRED FOR ALL PITS WHICH ARE ≥ 1M IN DEPTH

ALL MEASUREMENTS IN MILLIMETRES



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**UNHAUNCHED PITS
(SIDE ENTRY)**

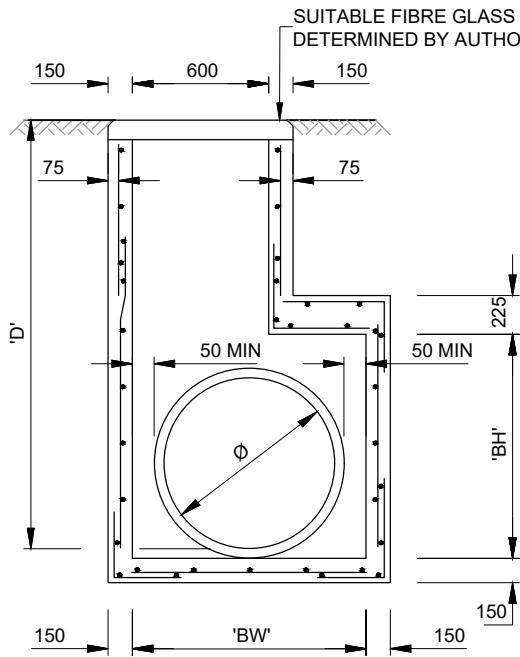
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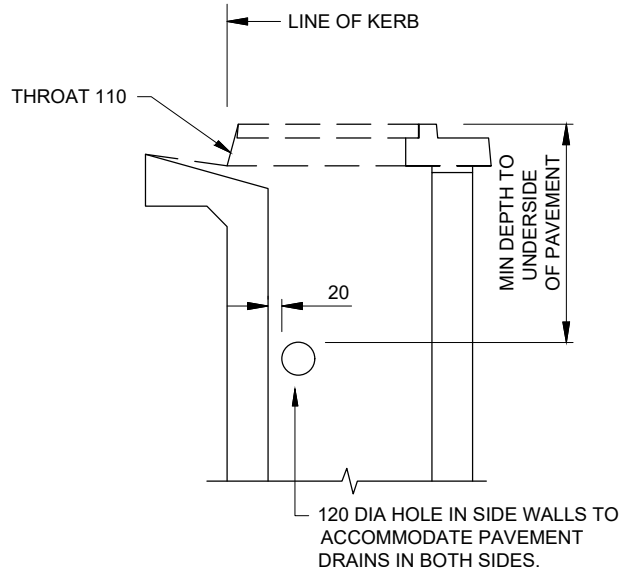
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D 280

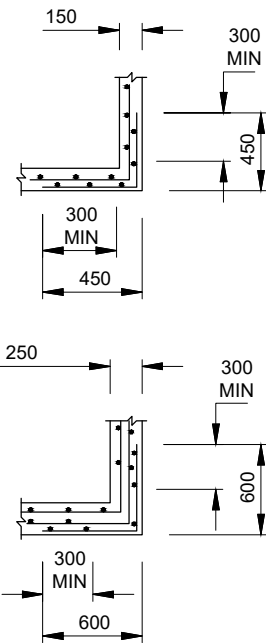
NOT TO SCALE



PITS UP TO 3600mm DEPTH



PRECAST PIT



**PLAN VIEW
CORNER DETAILS**

NOTES:

1. PIPES LESS THAN 525mm DIA. MAY NOT REQUIRE HAUNCHING. REFER D 280.
2. PITS WITH HAUNCHING IN TWO DIRECTIONS REQUIRE SPECIAL STRUCTURAL DESIGN.
3. FOR DETAILS OF SPECIFIC PITS, REFER TO PIT SCHEDULE.
4. PIT REINFORCEMENT SHALL HAVE 300mm MIN LAPS. CLEAR COVER TO BE 50mm MIN. CORNER RETURN REINFORCEMENT MAY BE FABRIC OR EQUIVALENT BARS.
5. FOR TOP OF PIT DETAILS, REFER TO PIT SCHEDULE AND RELEVANT STANDARD DRAWINGS.
6. PRECAST PITS WITH THINNER WALLS AND LESS STEEL MAY BE ACCEPTED WHERE THE MANUFACTURER CAN DEMONSTRATE THAT THE PITS HAVE ADEQUATE CAPACITY TO SUPPORT A COMBINATION OF THE FOLLOWING LOADS:
 - EARTH PRESSURE WITH 210kN SURCHARGE
 - HYDROSTATIC PRESSURE
 - COMPACTION PRESSURE (25 kPa MIN)
 - VERTICAL LOAD 210 kN
7. SUBSURFACE DRAIN HOLES TO BE SEALED IF NOT USED.
8. CONCRETE STRENGTH F'C = 25MPa. (MIN) AT 28 DAYS.
9. STEP IRONS REQUIRED FOR DEPTHS GREATER THAN 900mm. REFER D 200 FOR THE DETAIL DRAWING.

REINFORCEMENT DETAILS

| PIT BASE LENGTH 'BL' OR BASE WIDTH 'BW' | REINFORCEMENT |
|---|---------------|
| UP TO 1200 | SL92 |
| 1201 TO 1800 | RL918 |
| 1801 TO 2400 | RL1218 |

PIT SIZING

| 'BW' & 'BH' (mm) | 'Ø' (mm) |
|------------------|----------|
| 900 | 525 |
| " | 600 |
| " | 675 |
| " | 750 |
| " | 825 |
| 1200 | 900 |
| " | 975 |
| " | 1050 |
| " | 1125 |
| 1500 | 1200 |

ALL MEASUREMENTS IN MILLIMETRES



Banyule
CITY COUNCIL

**HAUNCHED PITS
(SIDE ENTRY)**

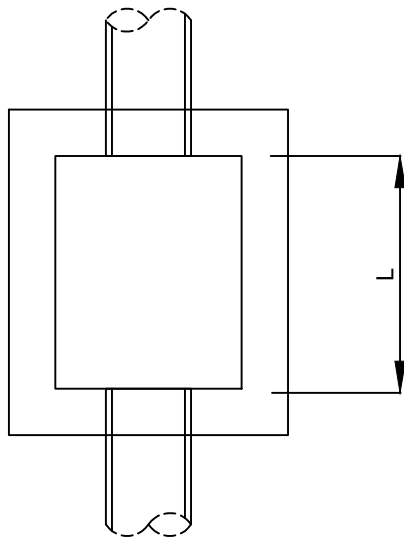
Banyule's Standard Drawings
A copy can be found on Banyule's website
www.banyule.vic.gov.au

Approved by: James Kelly
Manager Delivery & Assets

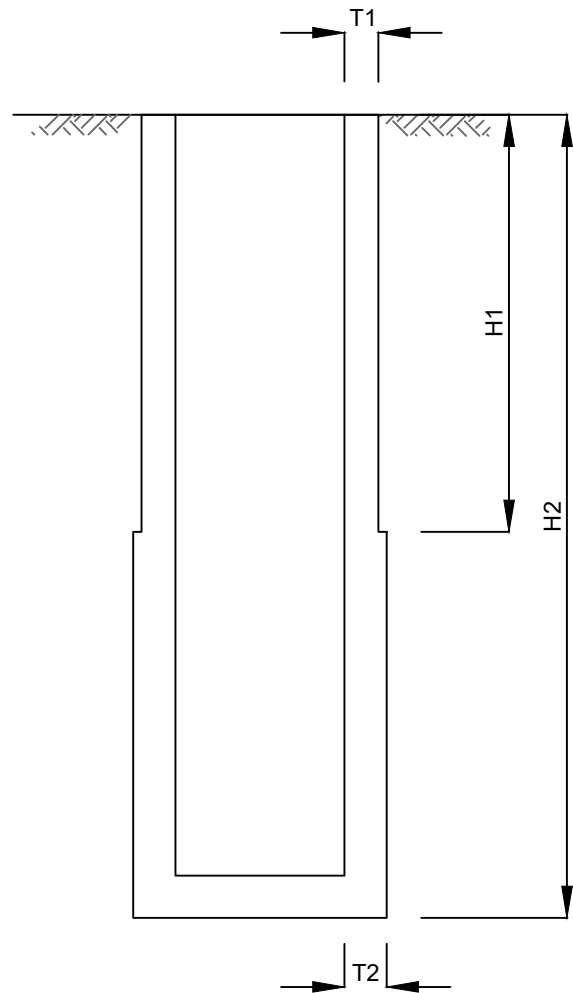
LAST UPDATED JULY 2019

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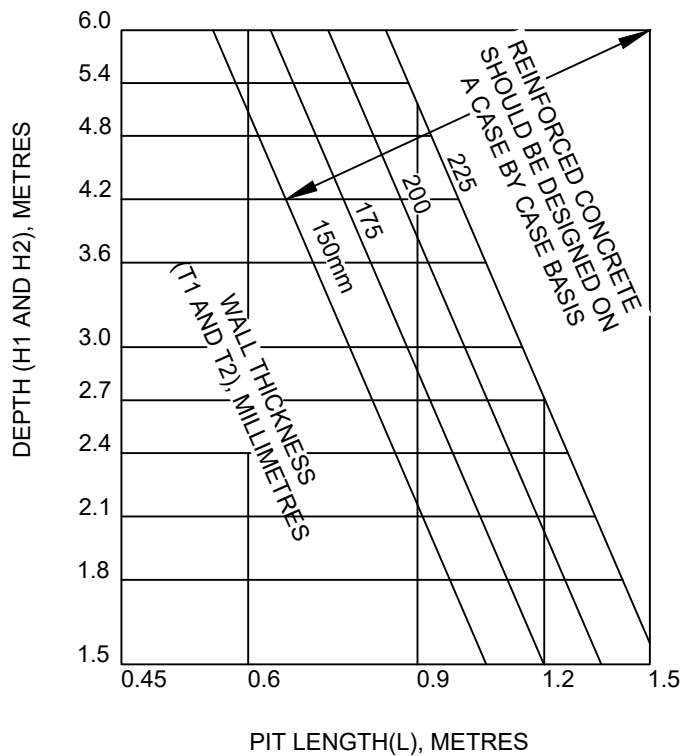
NOT TO SCALE



PLAN



SECTION



ALL MEASUREMENTS IN MILLIMETRES



Banyule
CITY COUNCIL

MIN. WALL THICKNESS FOR REINFORCEMENT
IN MASS CONCRETE PITS (CAST IN-SITU)

Banyule's Standard Drawings
A copy can be found on Banyule's website
www.banyule.vic.gov.au

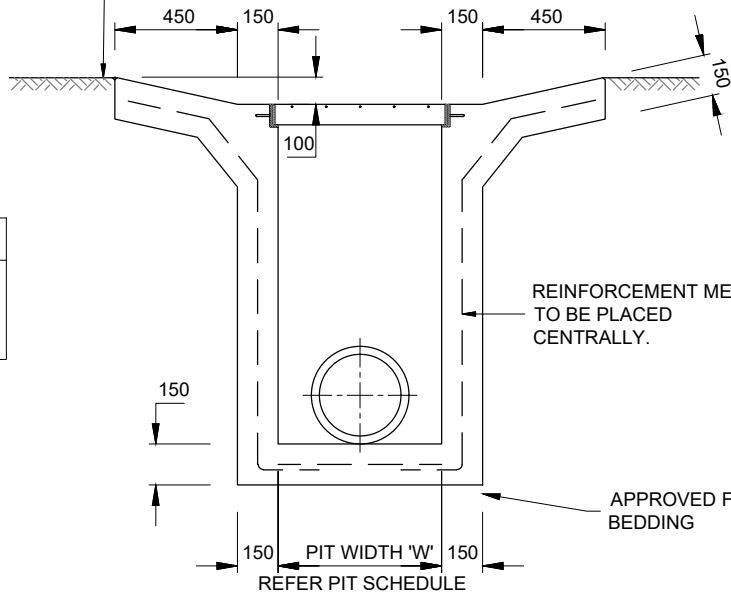
Approved by: James Kelly
Manager Delivery & Assets

LAST UPDATED JULY 2019

D 290

NOT TO SCALE

FINISHED SURFACE LEVEL



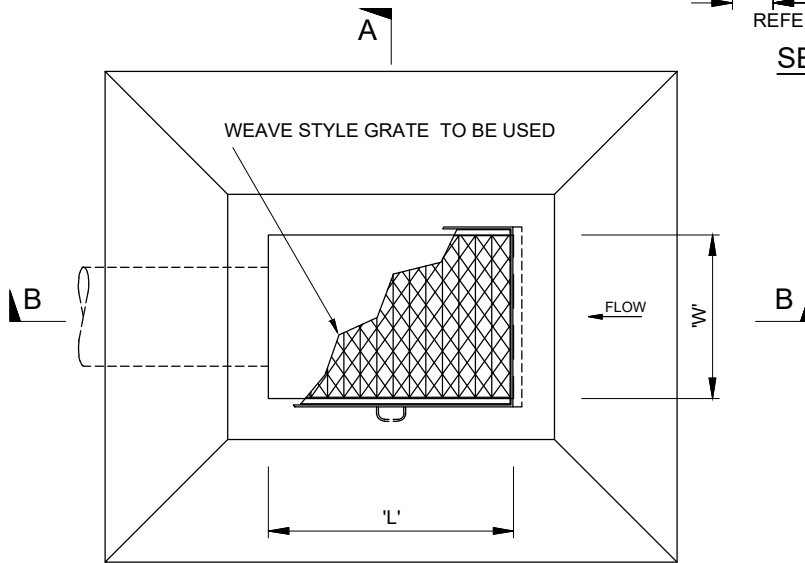
REINFORCEMENT DETAILS

| PIT LENGTH 'L' OR WIDTH 'W' | REINFORCEMENT |
|-----------------------------|---------------|
| UP TO 1200 | SL92 |
| 1201 TO 1800 | RL918 |
| 1801 TO 2400 | RL1218 |

REINFORCEMENT MESH TO BE PLACED CENTRALLY.

APPROVED FCR BEDDING

SECTION A-A



PLAN

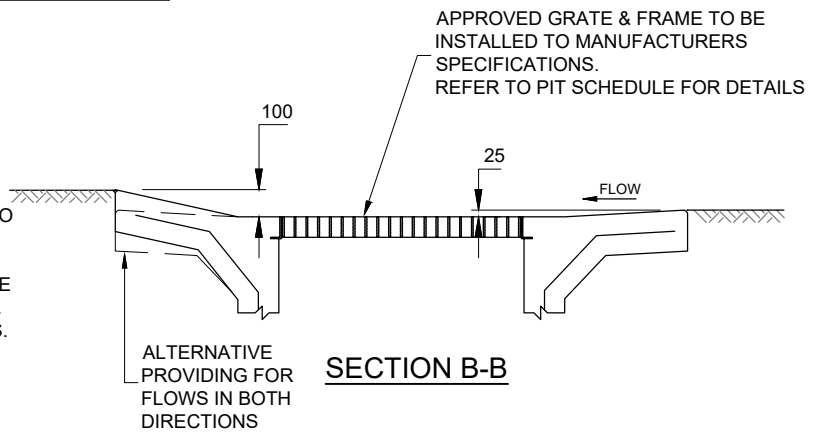
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NOTES:

1. CONCRETE STRENGTH $f'_c = 25\text{MPa}$. (MIN) AT 28 DAYS.

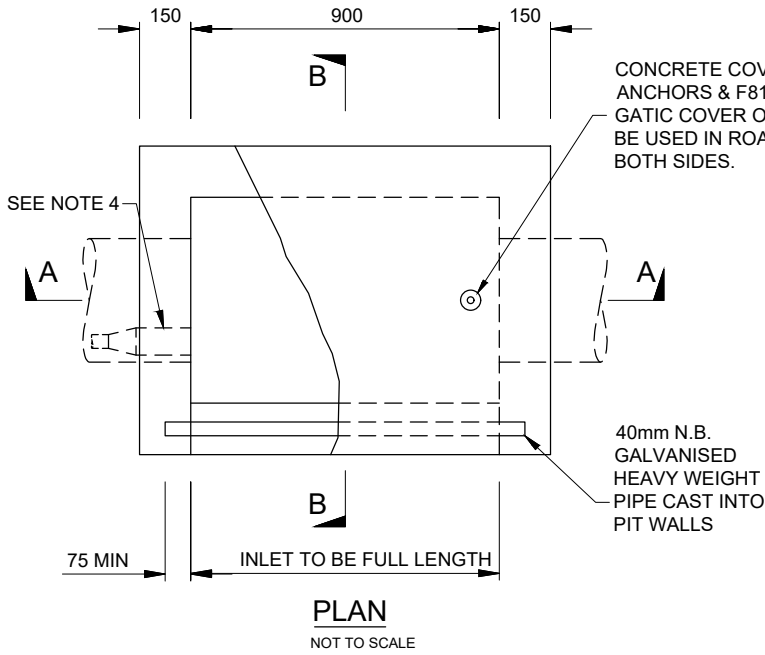
NOTES:

1. HEAVY DUTY COVERS TO BE USED WHEN SUBJECT TO TRAFFICABLE LOADS (AS3996 CLASS D - 210kN) OR APPROVED EQUIVALENT. MEDIUM DUTY COVERS TO BE USED IN OFF ROAD USE (AS3996 CLASS B - 80kN) OR APPROVED EQUIVALENT.
2. CONCRETE STRENGTH $f'_c = 25\text{MPa}$. (MIN) AT 28 DAYS.



SECTION B-B

ALL MEASUREMENTS IN MILLIMETRES

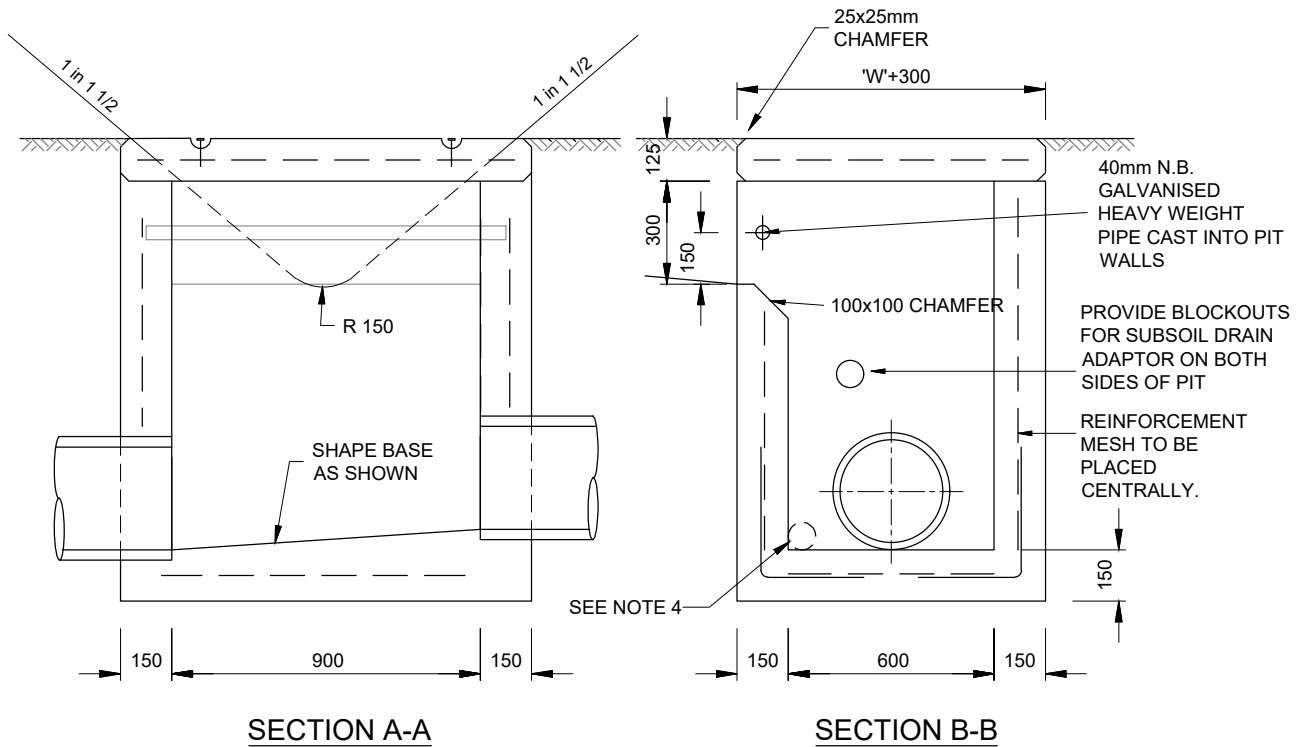


REINFORCEMENT DETAILS

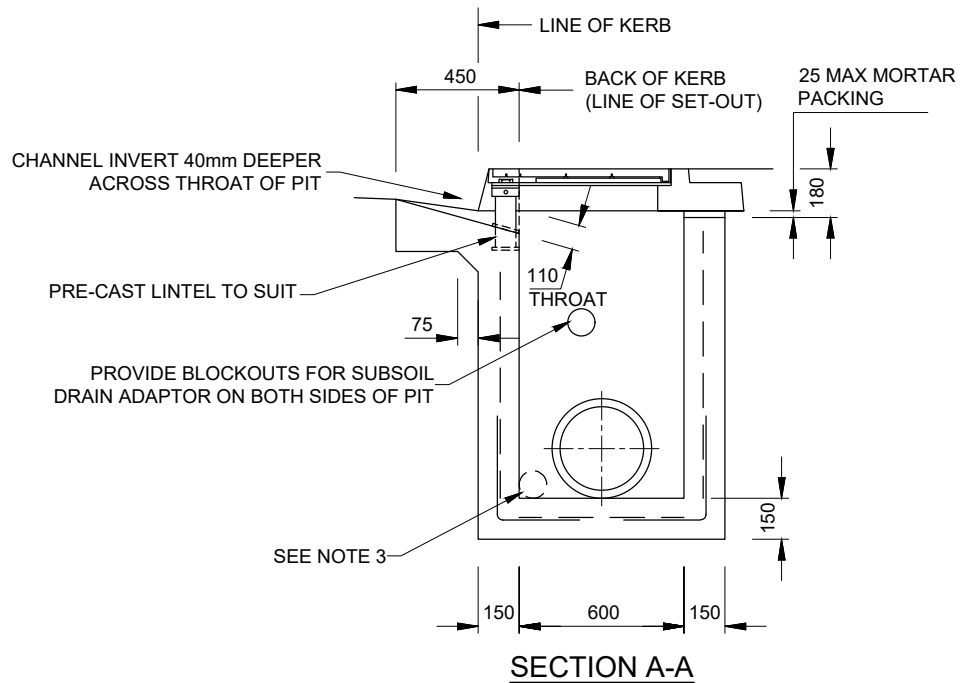
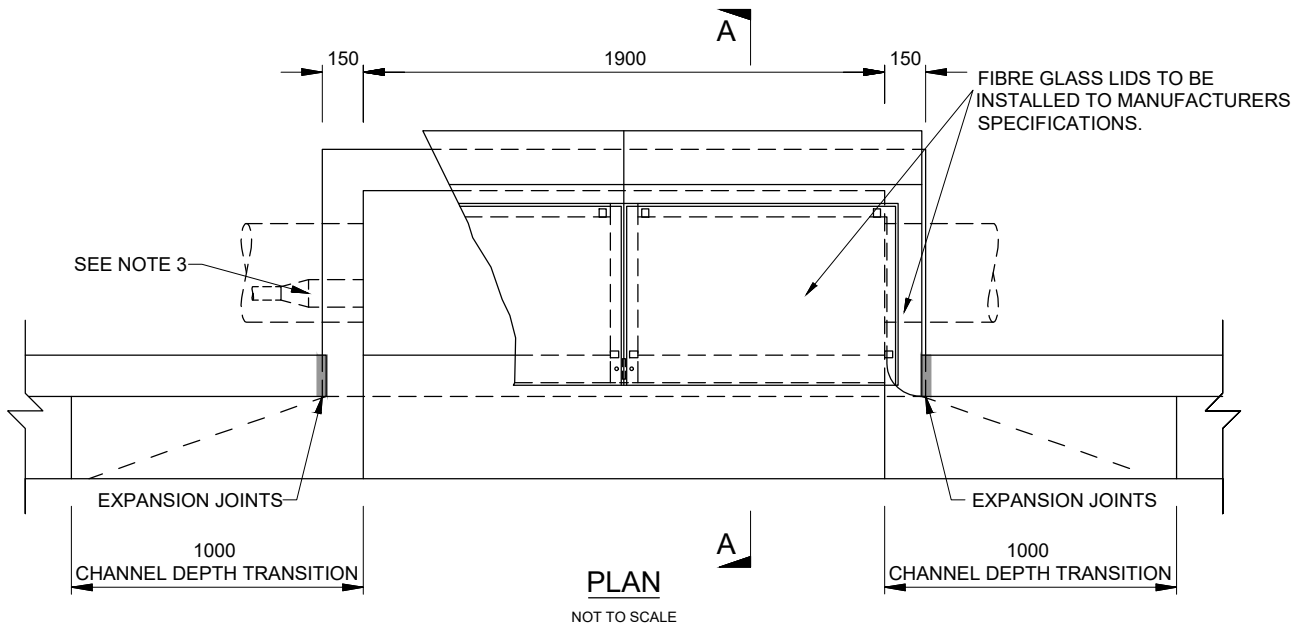
| PIT LENGTH 'L' OR WIDTH 'W' | REINFORCEMENT |
|-----------------------------|---------------|
| UP TO 1200 | SL92 |
| 1201 TO 1800 | RL918 |
| 1801 TO 2400 | RL1218 |

NOTES:

1. PLACEMENT OF PIT WITHIN ROAD RESERVE / MUNICIPAL RESERVE SUBJECT TO COUNCIL APPROVAL.
2. REFER TO PIT SCHEDULE FOR CORRECT PIT ORIENTATION.
3. CONCRETE STRENGTH F'C = 25MPa. (MIN) AT 28 DAYS.
4. WHERE NO SUBSOIL DRAIN INSTALLED, OR WHERE GRAVEL BACKFILL IS USED, OR WHERE EXPANSIVE CLAYS ARE PRESENT; INSTALL 1m LONG SUBSOIL DRAIN AT THE BOTTOM OF THE PIT.



ALL MEASUREMENTS IN MILLIMETRES



REINFORCEMENT DETAILS

| PIT LENGTH 'L' OR WIDTH 'W' | REINFORCEMENT |
|-----------------------------|---------------|
| UP TO 1200 | SL92 |
| 1201 TO 1800 | RL918 |
| 1801 TO 2400 | RL1218 |

NOTES:

1. REFER TO SD100 FR KERB DETAILS.
2. CONCRETE STRENGTH F'C = 25MPa. (MIN) AT 28 DAYS.
3. WHERE NO SUBSOIL DRAIN INSTALLED, OR WHERE GRAVEL BACKFILL IS USED, OR WHERE EXPANSIVE CLAYS ARE PRESENT; INSTALL 1m LONG SUBSOIL DRAIN AT THE BOTTOM OF THE PIT.

ALL MEASUREMENTS IN MILLIMETRES