STANDARD DRAWINGS
2016

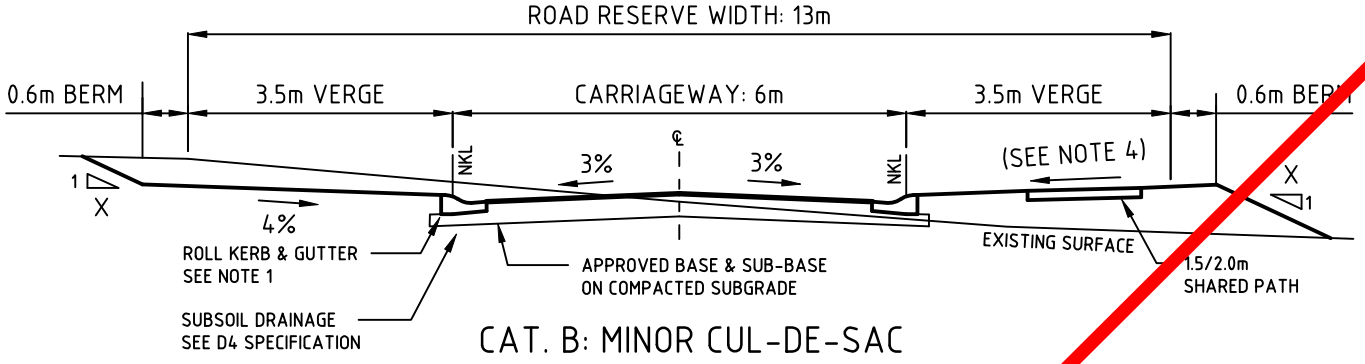
Wollondilly
Shire Council

SUBDIVISION & ENGINEERING STANDARD

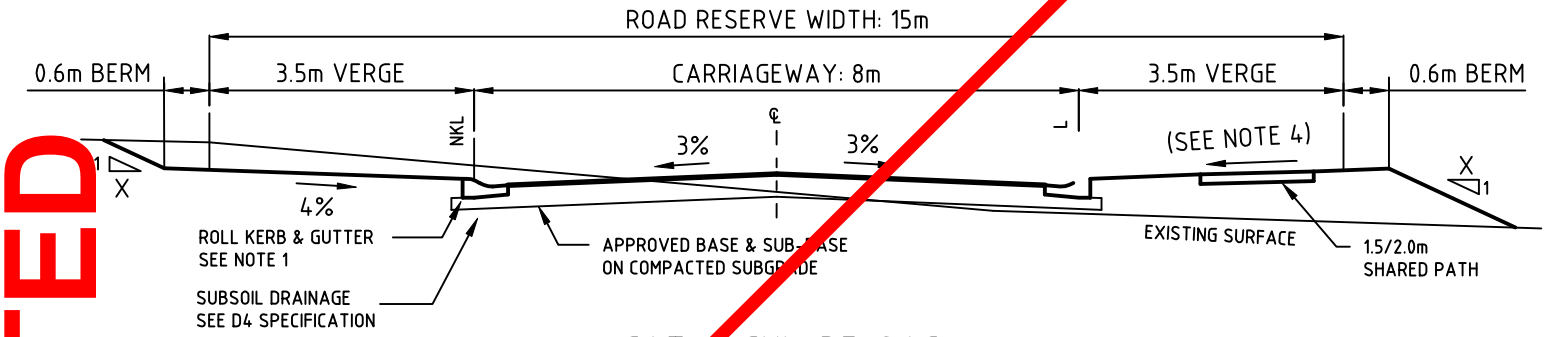
AUS-SPEC #1

Development Specification Series

FILENAME:WSC.D1_2016 PLOT DATE: 01.03.2016



CAT. B: MINOR CUL-DE-SAC



CAT. C: CUL-DE-SAC
CAT. D: MINOR LOCAL STREET

LEGEND:
NKL: NOMINAL KERB LINE
X: HORIZONTAL COMPONENT OF BATTER SLOPE AS PER NOTE 2

NOTES:
1. FOR KERB DETAILS REFER TO STANDARD DRAWING No. WSC.D1.12.
2. BATTERS SHALL BE CONSTRUCTED TO THE FOLLOWING SPECIFICATIONS:
   - 2.1. X = 4 WHEN THE VERTICAL DISTANCE AT THE PROPERTY LINE BETWEEN THE EXISTING SURFACE AND THE DESIGN SURFACE EXCEEDS 600mm. (i.e. ADOPT 1 IN 4 BATTER SLOPE).
   - 2.2. X=6 WHEN THIS VERTICAL DISTANCE IS LESS THAT 600mm. (i.e.) ADOPT A 1 IN 6 BATTER SLOPE).
   - 2.3. X<4 SHALL REQUIRE APPROVAL AND X<2 SHALL REQUIRE A SUPPORTING GEOTECHNICAL REPORT.
3. WIDEN ACCESSWAY PAVEMENT AT INTERSECTIONS TO SUIT TURNING OR STACKED VEHICLES.
4. VERGE CROSSFALL SHALL BE ADJUSTED AS REQUIRED TO PROVIDE 2.5% ON THE SHARED PATHWAY AND MAINTAIN 4% OVERALL.

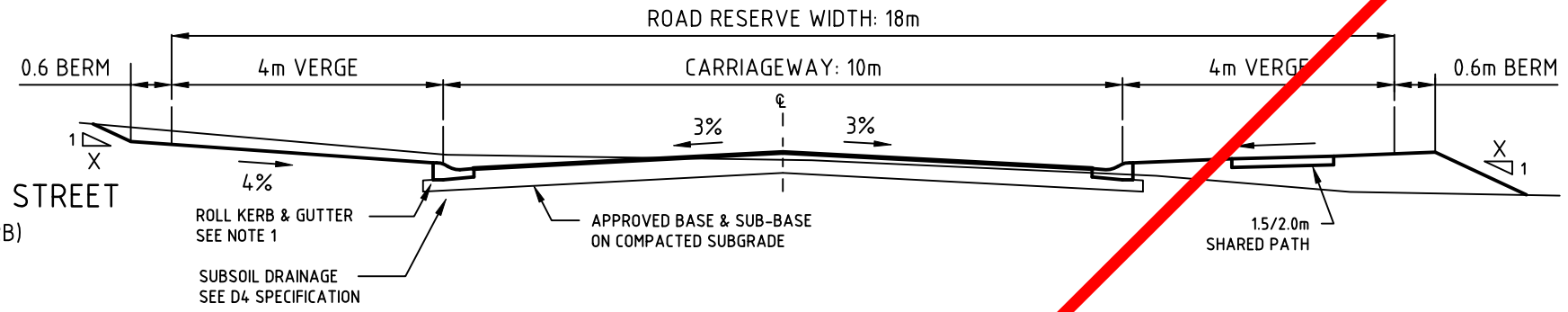
DELETED

Wollondilly Shire Council	DRAWN O.S. DATE: 12/01/16	SCALE 1:100 @ A4
STANDARD ROAD SECTIONS URBAN RESIDENTIAL CATEGORIES A TO D	APPROVED BY M.NELSON DATE: 01.03.2016	DRAWING NO. WSC.D1.1 SHEET 1 OF 4

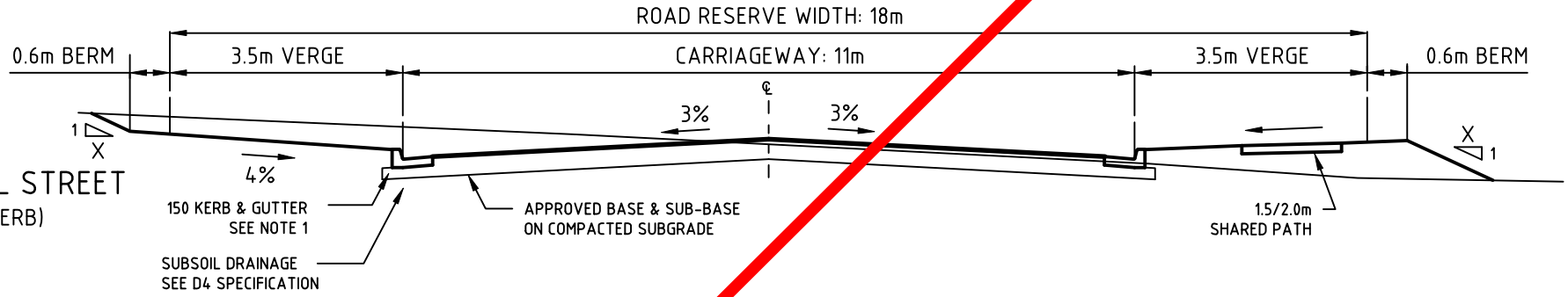
FILENAME:WSC.D1_2016 PLOT DATE: 01.03.2016

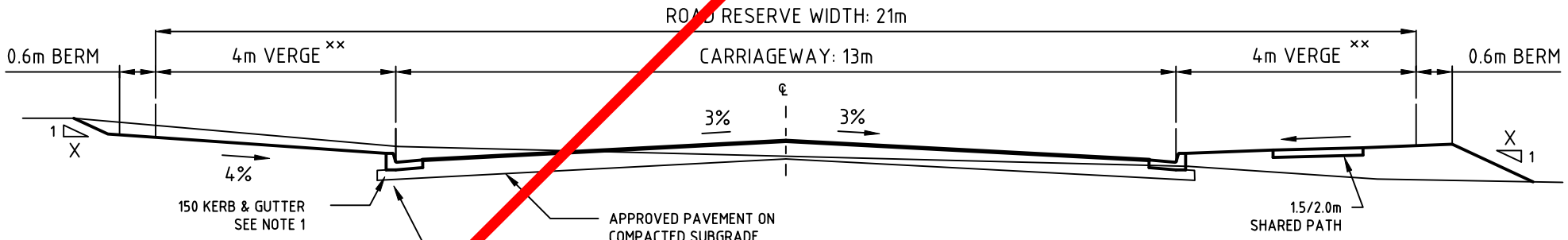
DELETED

CAT. D2: LOCAL STREET
(ROLL KERB)



CAT. D3: LOCAL STREET
(BARRIER KERB)





CAT. E: COLLECTOR/BUS ROUTE
CAT. F: COMMERCIAL/INDUSTRIAL
(BARRIER KERB)

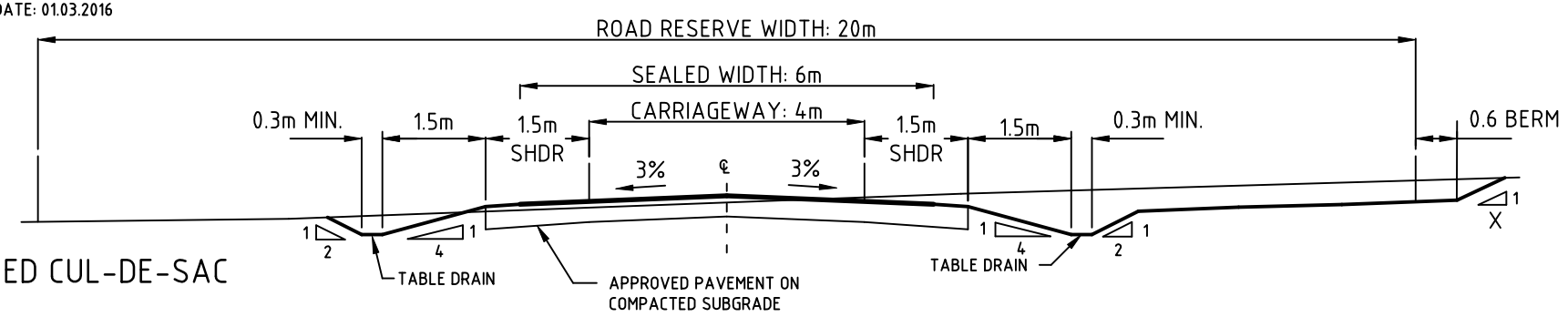
LEGEND:
××: INCLUDES PROVISION FOR 1.5m SHARED PATHWAY. IF REQUIRED BY COUNCIL OR IF SHOWN ON COUNCIL'S SHARED PATHWAY STRATEGIC PLANS, VERGE & ROAD RESERVE MAY NEED TO BE WIDENED TO ACCOMODATE A 2m WIDE SHARED PATHWAY.
NKL: NOMINAL KERB LINE
X: HORIZONTAL COMPONENT OF BATTER SLOPE AS PER NOTE 2.
SHDR: SHOULDER

NOTES:
1. FOR KERB DETAILS REFER TO STANDARD DRAWING No. WSC.D1.12.
2. BATTERS SHALL BE CONSTRUCTED TO THE FOLLOWING SPECIFICATIONS:
   2.1 X=4 WHEN THE VERTICAL DISTANCE AT THE PROPERTY LINE BETWEEN THE EXISTING SURFACE AND THE DESIGN SURFACE EXCEEDS 600mm. (i.e. ADOPT 1 IN 4 BATTER SLOPE).
   2.2 X=6 WHEN THIS VERTICAL DISTANCE IS LESS THAT 600mm. (i.e.) ADOPT A 1 IN 6 BATTER SLOPE).
   2.3 X<4 SHALL REQUIRE APPROVAL AND X<2 SHALL REQUIRE A SUPPORTING GEOTECHNICAL REPORT.
3. PASSING BAYS FOR ROAD CATEGORY G1 SHALL BE INSTALLED AT INTERVALS NOT GREATER THAN 100m.
4. VERGE CROSSFALL SHALL BE ADJUSTED AS REQUIRED TO PROVIDE 2.5% ON THE SHARED PATHWAY AND MAINTAIN 4% OVERALL.
5. TABLE DRAINS SHALL BE ADJUSTED AS REQUIRED TO PROVIDE 2.5% ON THE SHARED PATHWAY AND MAINTAIN 4% OVERALL.

Wollondilly Shire Council

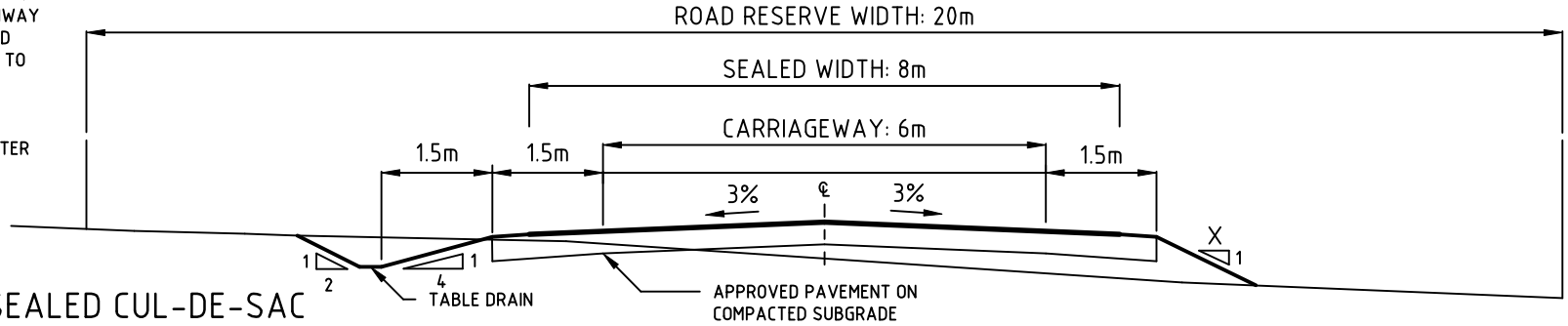
STANDARD ROAD SECTIONS URBAN RESIDENTIAL CATEGORIES D TO F	DRAWN O.S. DATE: 12/01/16 APPROVED BY M.NELSON DATE: 01.03.2016	SCALE 1:100 @ A4 DRAWING NO. WSC.D1.1 SHEET 2 OF 4

FILENAME:WSC.D1_2016 PLOT DATE: 01.03.2016

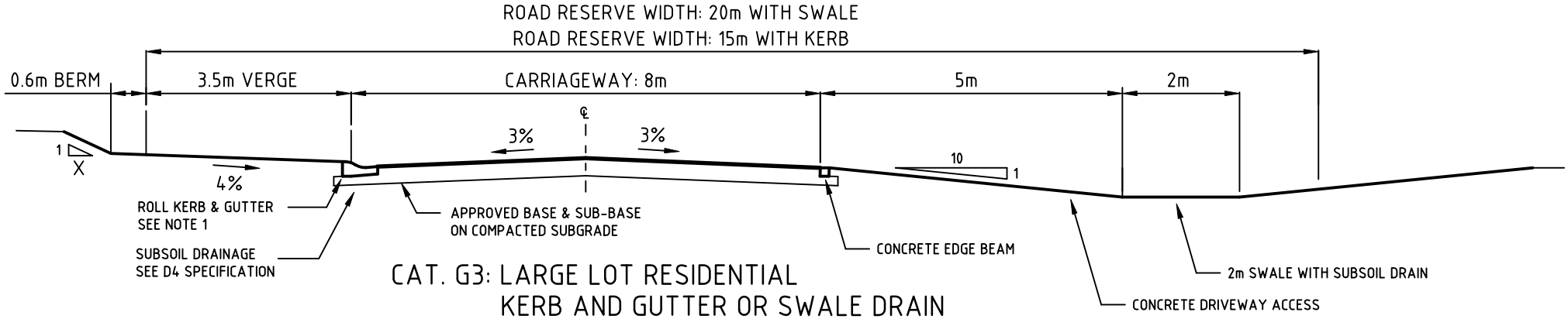


CAT. G1: RURAL SEALED CUL-DE-SAC

××: INCLUDES PROVISION FOR A 1.5m SHARED PATHWAY. IF REQUIRED BY COUNCIL OR SHOWN ON COUNCIL'S SHARED PATHWAY STRATEGIC PLANS, VERGE AND ROAD RESERVE MAY NEED TO BE WIDENED TO ACCOMODATE A 2.0m WIDE SHARED PATHWAY.
NKL: NOMINAL KERB LINE
X: HORIZONTAL COMPONENT OF BATTER SLOPES AS PER NOTE 2.
SHDR: SHOULDER



CAT. G2: RURAL SEALED CUL-DE-SAC MINOR THROUGH ROAD



CAT. G3: LARGE LOT RESIDENTIAL KERB AND GUTTER OR SWALE DRAIN

NOTES:
1. FOR KERB DETAILS REFER TO STANDARD DRAWING No. WSC.D1.12.
2. BATTERS SHALL BE CONSTRUCTED TO THE FOLLOWING SPECIFICATIONS:
   - 2.1. X=4 WHEN THE VERTICAL DISTANCE AT THE PROPERTY LINE BETWEEN THE EXISTING SURFACE AND THE DESIGN SURFACE EXCEEDS 600mm. (i.e. ADOPT 1 IN 4 BATTER SLOPE).
   - 2.2. X=6 WHEN THIS VERTICAL DISTANCE IS LESS THAT 600mm. (i.e.) ADOPT A 1 IN 6 BATTER SLOPE).
   - 2.3. X<4 SHALL REQUIRE APPROVAL AND X<2 SHALL REQUIRE A SUPPORTING GEOTECHNICAL REPORT.
3. PASSING BAYS FOR ROAD CATEGORY G1 SHALL BE INSTALLED AT INTERVALS NOT GREATER THAN 100m.
4. VERGE CROSSFALL SHALL BE ADJUSTED AS REQUIRED TO PROVIDE 2.5% ON THE SHARED PATHWAY AND MAINTAIN 4% OVERALL.
5. TABLE DRAINS SHALL BE ADJUSTED AS REQUIRED TO PROVIDE 2.5% ON THE SHARED PATHWAY AND MAINTAIN 4% OVERALL.

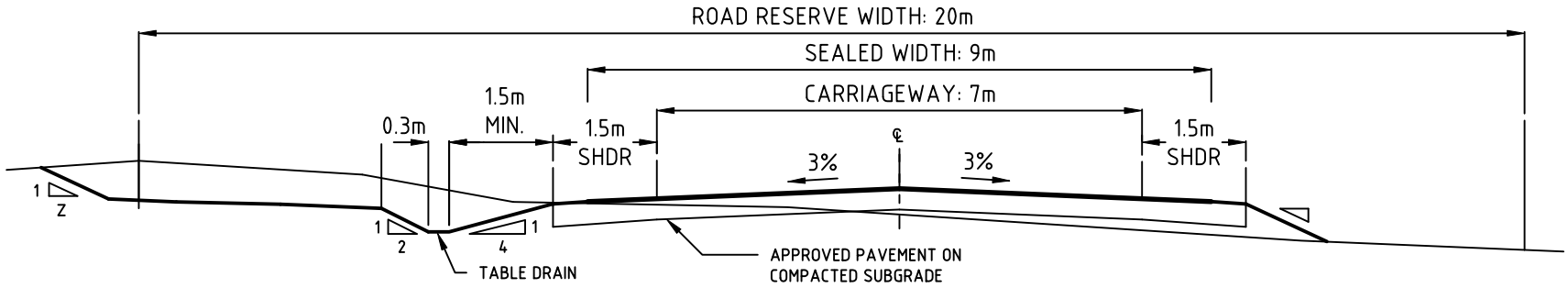
Wollondilly Shire Council

STANDARD ROAD SECTIONS
RURAL RESIDENTIAL
CATEGORIES G

DRAWN	SCALE
O.S. DATE: 12/01/16	1:100 @ A4
APPROVED BY	DRAWING NO.
M.NELSON DATE: 01.03.2016	WSC.D1.1 SHEET 3 OF 4

FILENAME:WSC.D1_2016 PLOT DATE: 01.03.2016

××: INCLUDES PROVISION FOR A 1.5m SHARED PATHWAY. IF REQUIRED BY COUNCIL OR SHOWN ON COUNCIL'S SHARED PATHWAY STRATEGIC PLANS, VERGE AND ROAD RESERVE MAY NEED TO BE WIDENED TO ACCOMODATE A 2.0m WIDE SHARED PATHWAY.
NKL: NOMINAL KERB LINE
X: HORIZONTAL COMPONENT OF BATTER SLOPES AS PER NOTE 2.
SHDR: SHOULDER



CAT. H: RURAL SEALED THROUGH ROAD

NOTES:
1. FOR KERB DETAILS REFER TO STANDARD DRAWING No. WSC.D1.12.
2. BATTERS SHALL BE CONSTRUCTED TO THE FOLLOWING SPECIFICATIONS:
   - 2.1. X=4 WHEN THE VERTICAL DISTANCE AT THE PROPERTY LINE BETWEEN THE EXISTING SURFACE AND THE DESIGN SURFACE EXCEEDS 600mm. (i.e. ADOPT 1 IN 4 BATTER SLOPE).
   - 2.2. X=6 WHEN THIS VERTICAL DISTANCE IS LESS THAT 600mm. (i.e.) ADOPT A 1 IN 6 BATTER SLOPE).
   - 2.3. X<4 SHALL REQUIRE APPROVAL AND X<2 SHALL REQUIRE A SUPPORTING GEOTECHNICAL REPORT.
3. PASSING BAYS FOR ROAD CATEGORY G1 SHALL BE INSTALLED AT INTERVALS NOT GREATER THAN 100m.
4. VERGE CROSSFALL SHALL BE ADJUSTED AS REQUIRED TO PROVIDE 2.5% ON THE SHARED PATHWAY AND MAINTAIN 4% OVERALL.
5. TABLE DRAINS SHALL BE ADJUSTED AS REQUIRED TO PROVIDE 2.5% ON THE SHARED PATHWAY AND MAINTAIN 4% OVERALL.

Wollondilly Shire Council

STANDARD ROAD SECTIONS
RURAL RESIDENTIAL
GATEGORIES H

DRAWN O.S. DATE: 12/01/16

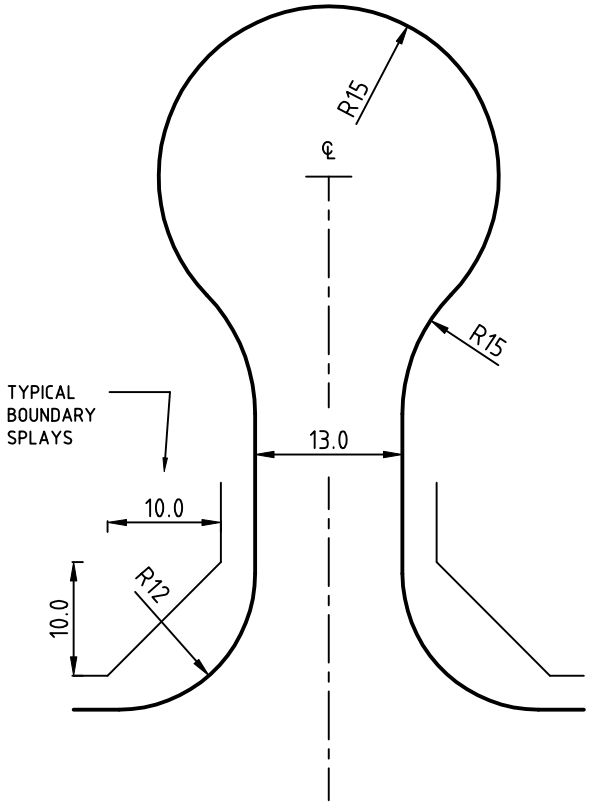
APPROVED BY M.NELSON DATE: 01.03.2016

SCALE 1:100 @ A4

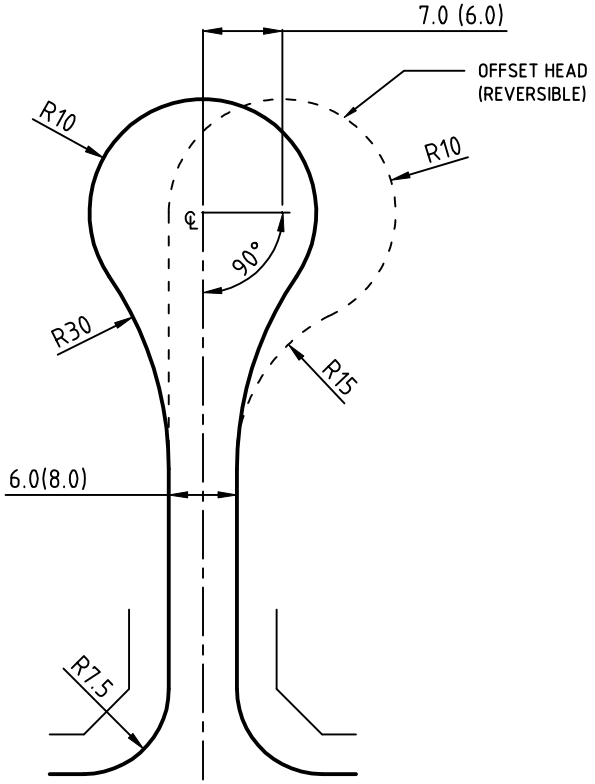
DRAWING NO. WSC.D1.1

SHEET 4 OF 4

FILENAME:WSC.D1.3__2016 PLOT DATE: 01.03.2016



INDUSTRIAL/COMMERCIAL



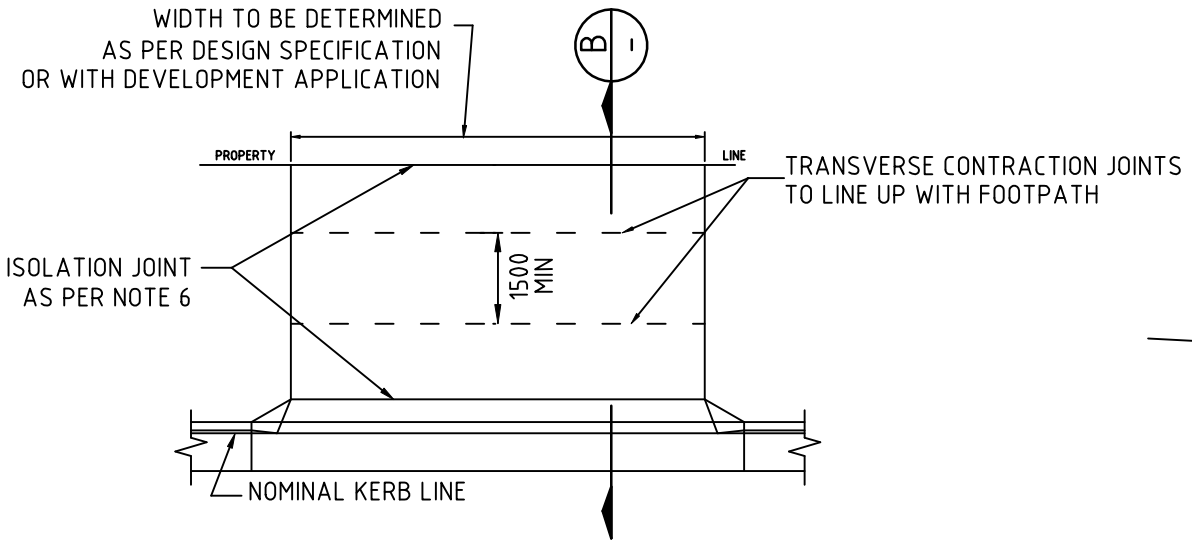
RESIDENTIAL

NOTES:

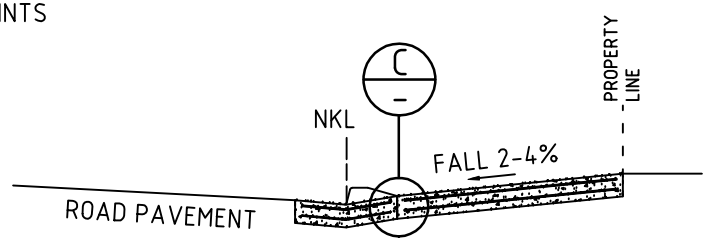
1. ALL UNITS ARE IN METRES (m) UNLESS OTHERWISE SPECIFIED.

Wollondilly Shire Council	DRAWN O.S. DATE: 12/01/16	SCALE 1:100 @ A4
CUL-DE-SAC HEAD TYPICAL LAYOUT FOR CATEGORY A, B, C AND F ROADS	APPROVED BY M.NELSON DATE: 01.03.2016	DRAWING NO. WSC.D1.2 SHEET 1 OF 1

FILENAME:WSC.D1.5_2016 PLOT DATE: 01.03.2016



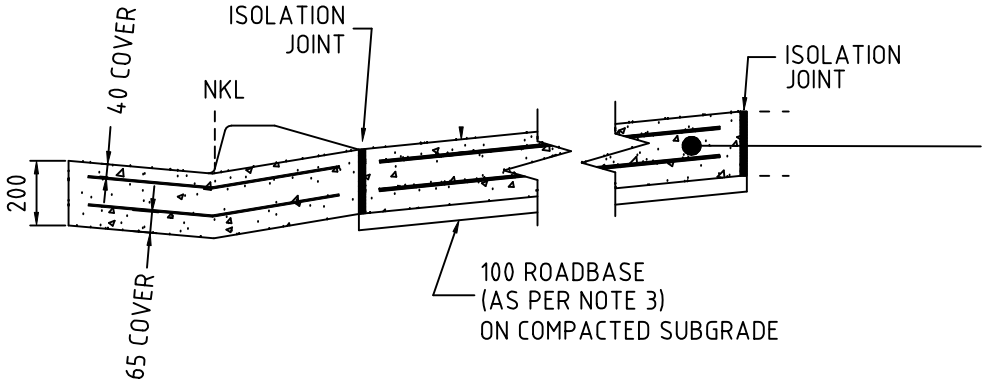
A – PLAN VIEW



B – DRIVEWAY SECTION
NOT TO SCALE (mm)

NOTES:

1. DRIVEWAY CROSSING INSPECTIONS ARE SUBJECT TO AN INSPECTION FEE. FEES TO BE PAID PRIOR TO INSPECTION.
2. MINIMUM COMPRESSIVE STRENGTH OF CONCRETE AT 28 DAYS WILL BE 32 MPa. CONCRETE SLUMP 65-75mm.
3. SUB-BASE MATERIAL SHALL BE COMPACTED ROAD BASE DGB20 OR APPROVED EQUIVALENT.
4. PERMIT TO BE OBTAINED FROM COUNCIL PRIOR TO COMMENCEMENT OF ANY WORKS.
5. INSPECTION IS REQUIRED WHEN FORMWORK AND REINFORCING STEEL US IN FINAL POSITION PRIOR TO CONCRETE PLACEMENT.
6. APPROVED BITUMINOUS JOINTING MATERIAL SHALL BE PLACED TO SEPARATE ALL NEW AND OLD CONCRETE EDGES.
7. ALL EXPOSED CONCRETE EDGED TO BE ROUNDED TO 10mm RADIUS UNLESS NOTED OTHERWISE.
8. CROSSING WIDTH (W) TO BE DETERMINED AT DEVELOPMENT APPLICATION STAGE.



INDUSTRIAL DRIVEWAYS 200 THICK 32MPa CONCRETE REINFORCED WITH TWO LAYERS SL82 MESH 40 TOP COVER & 65 BOTTOM COVER.

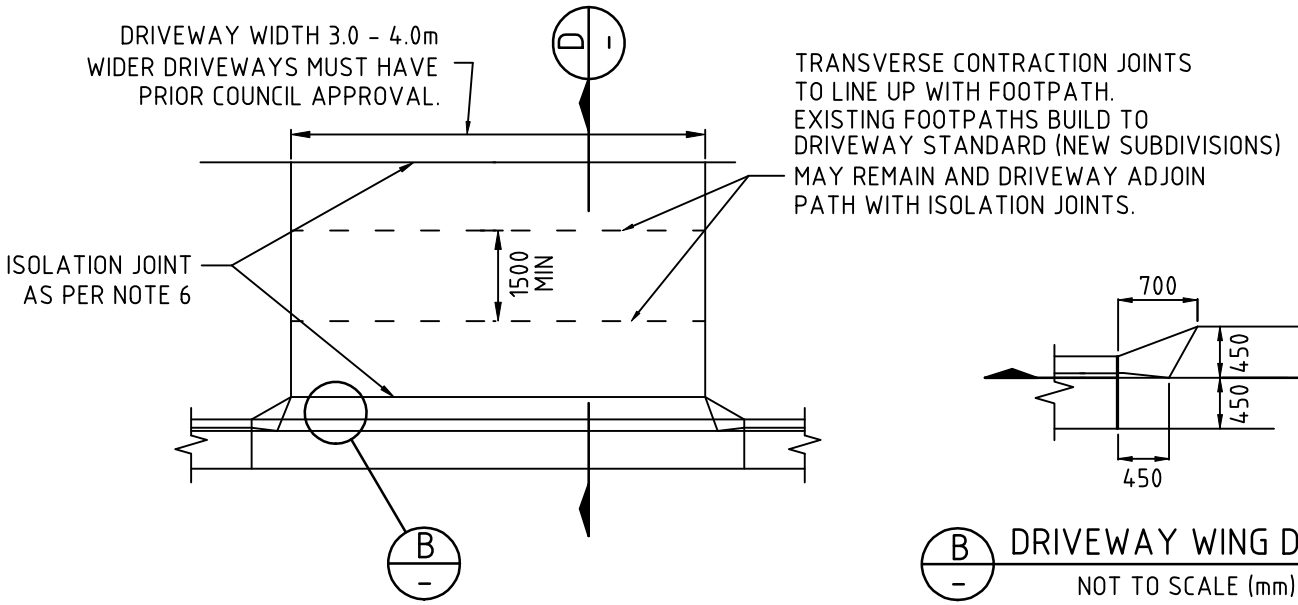
COMMERCIAL DRIVEWAYS 150 THICK 32MPa CONCRETE REINFORCED WITH SINGLE LAYER SL82 MESH 40 TOP COVER .

C – KERB CROSSING DETAIL
NOT TO SCALE (mm)

Wollondilly Shire Council

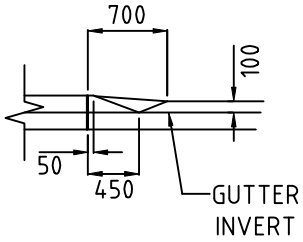
INDUSTRIAL AND COMMERCIAL VEHICULAR AND FOOTWAY CROSSING	DRAWN O.S. DATE: 12/01/16	SCALE 1:100 @ A4
	APPROVED BY M.NELSON DATE: 01.03.2016	DRAWING NO. WSC.D1.5 SHEET 1 OF 1

FILENAME:WSC.D1.8_2016 PLOT DATE: 01.03.2016



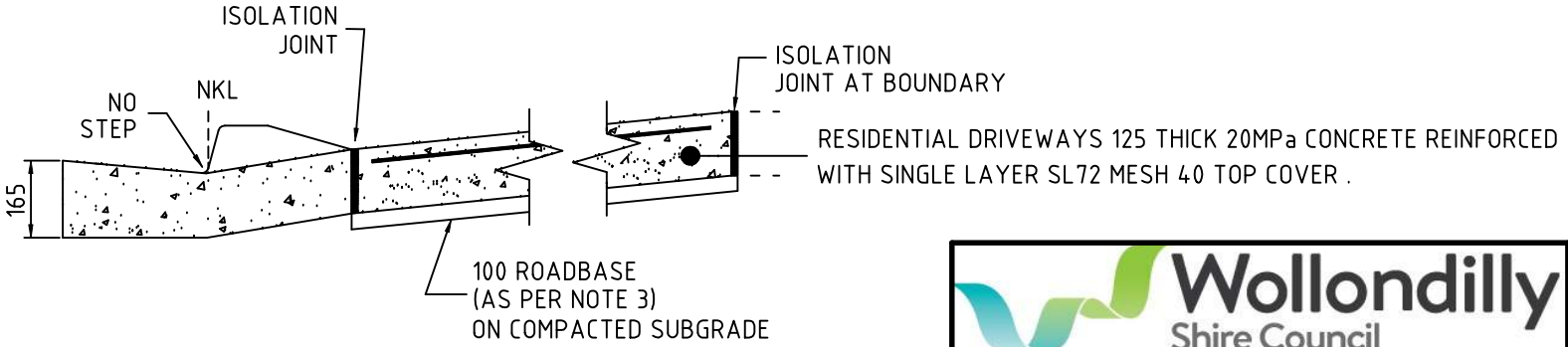
A - PLAN VIEW

B - DRIVEWAY WING DETAIL
NOT TO SCALE (mm)



C - DRIVEWAY WING PROFILE
NOT TO SCALE (mm)

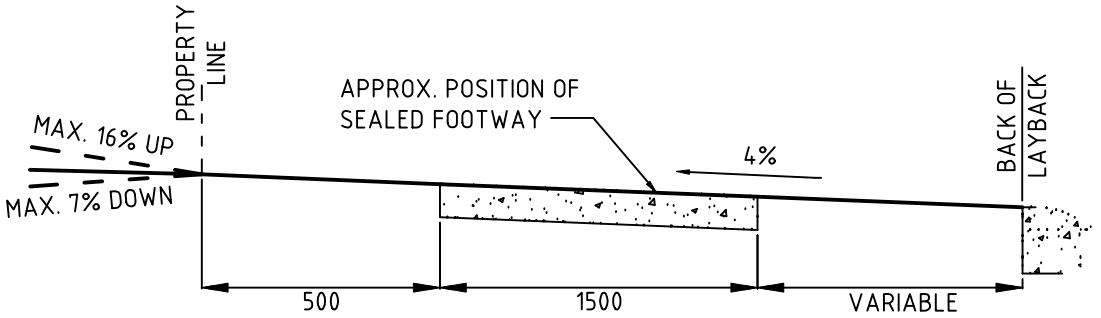
NOTES:
1. DRIVEWAY CROSSING INSPECTIONS ARE SUBJECT TO AN INSPECTION FEE. FEES TO BE PAID PRIOR TO INSPECTION.
2. MINIMUM COMPRESSIVE STRENGTH OF CONCRETE AT 28 DAYS WILL BE 25 MPa. CONCRETE SLUMP 65-75mm.
3. SUB-BASE MATERIAL SHALL BE COMPACTED ROAD BASE DGB20 OR APPROVED EQUIVALENT.
4. PERMIT TO BE OBTAINED FROM COUNCIL PRIOR TO COMMENCEMENT OF ANY WORKS.
5. INSPECTION IS REQUIRED WHEN FORMWORK AND REINFORCING STEEL US IN FINAL POSITION PRIOR TO CONCRETE PLACEMENT.
6. APPROVED BITUMINOUS JOINTING MATERIAL SHALL BE PLACED TO SEPARATE ALL NEW AND OLD CONCRETE EDGES.
7. ALL EXPOSED CONCRETE EDGED TO BE ROUNDED TO 10mm RADIUS UNLESS NOTED OTHERWISE.
8. CROSSING WIDTH (W) TO BE DETERMINED AT DEVELOPMENT APPLICATION STAGE.



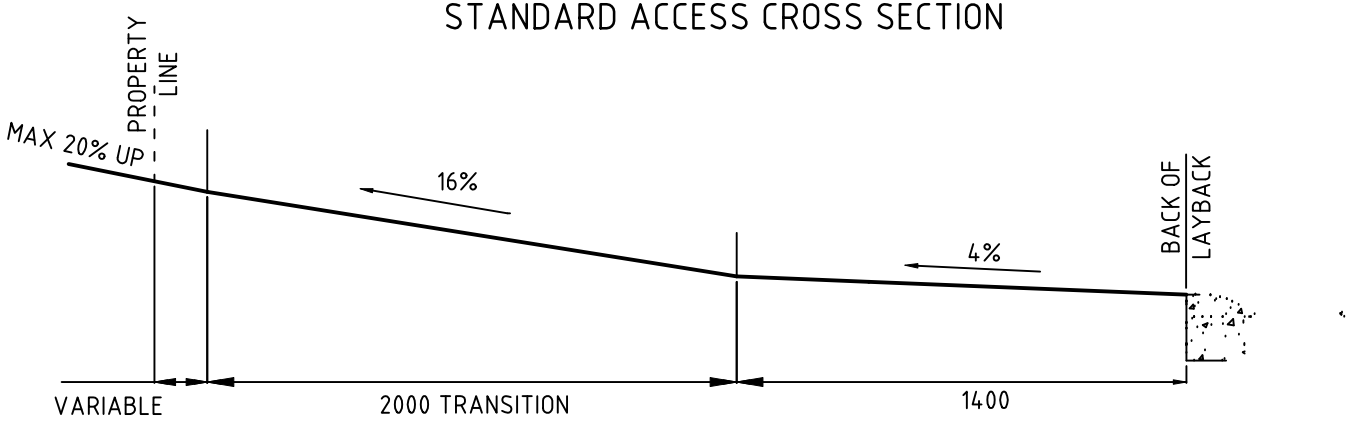
D - KERB CROSSING DETAIL
NOT TO SCALE (mm)

Wollondilly Shire Council	DRAWN O.S. DATE: 12/01/16	SCALE 1:100 @ A4
RESIDENTIAL VEHICULAR AND FOOTWAY CROSSING	APPROVED BY M.NELSON DATE: 01.03.2016	DRAWING NO. WSC.D1.8 SHEET 1 OF 1

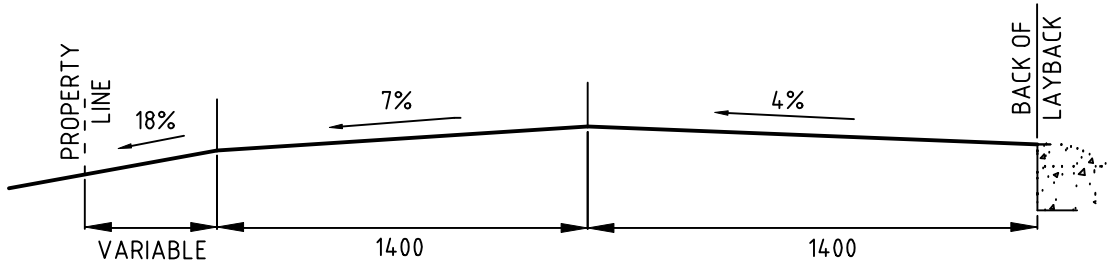
FILENAME:WSC.D1.11_2016 PLOT DATE: 01.03.2016



STANDARD ACCESS CROSS SECTION



HIGH LEVEL ACCESS CROSS SECTION

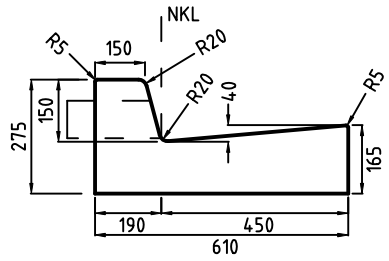


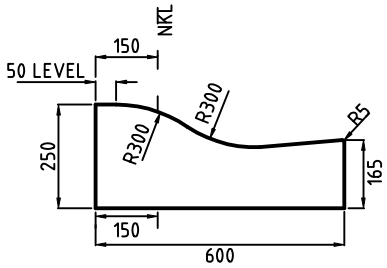
LOW LEVEL ACCESS CROSS SECTION

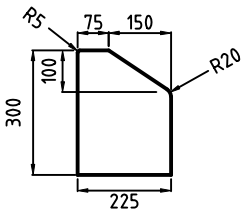
Wollondilly Shire Council	DRAWN O.S. DATE: 12/01/16	SCALE NO SCALE @ A4
VEHICULAR ACCESS PROFILES	APPROVED BY M.NELSON DATE: 01.03.2016	DRAWING NO. WSC.D1.11 SHEET 1 OF 1

F

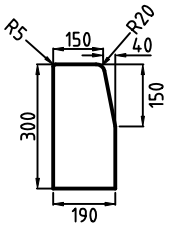
FILENAME:WSC.D1.12_2016 PLOT DATE: 01.03.2016



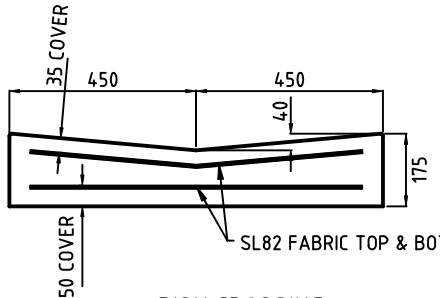




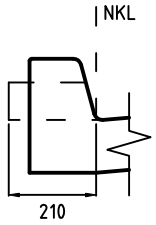
MOUNTABLE KERB



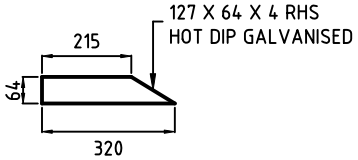
KERB ONLY



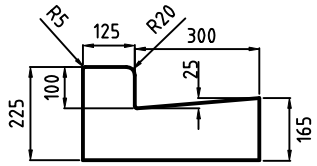
DISH CROSSING



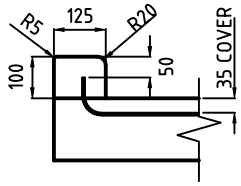
150mm KERB & GUTTER



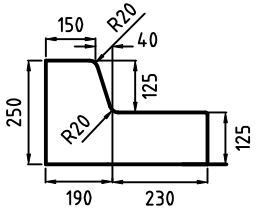
ROLL KERB & GUTTER/MS PIPE INSERT



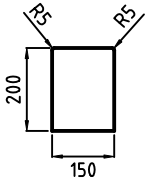
PATHWAY KERB & GUTTER



INTEGRAL KERB FOR PATHWAYS



KERB WITH TOE



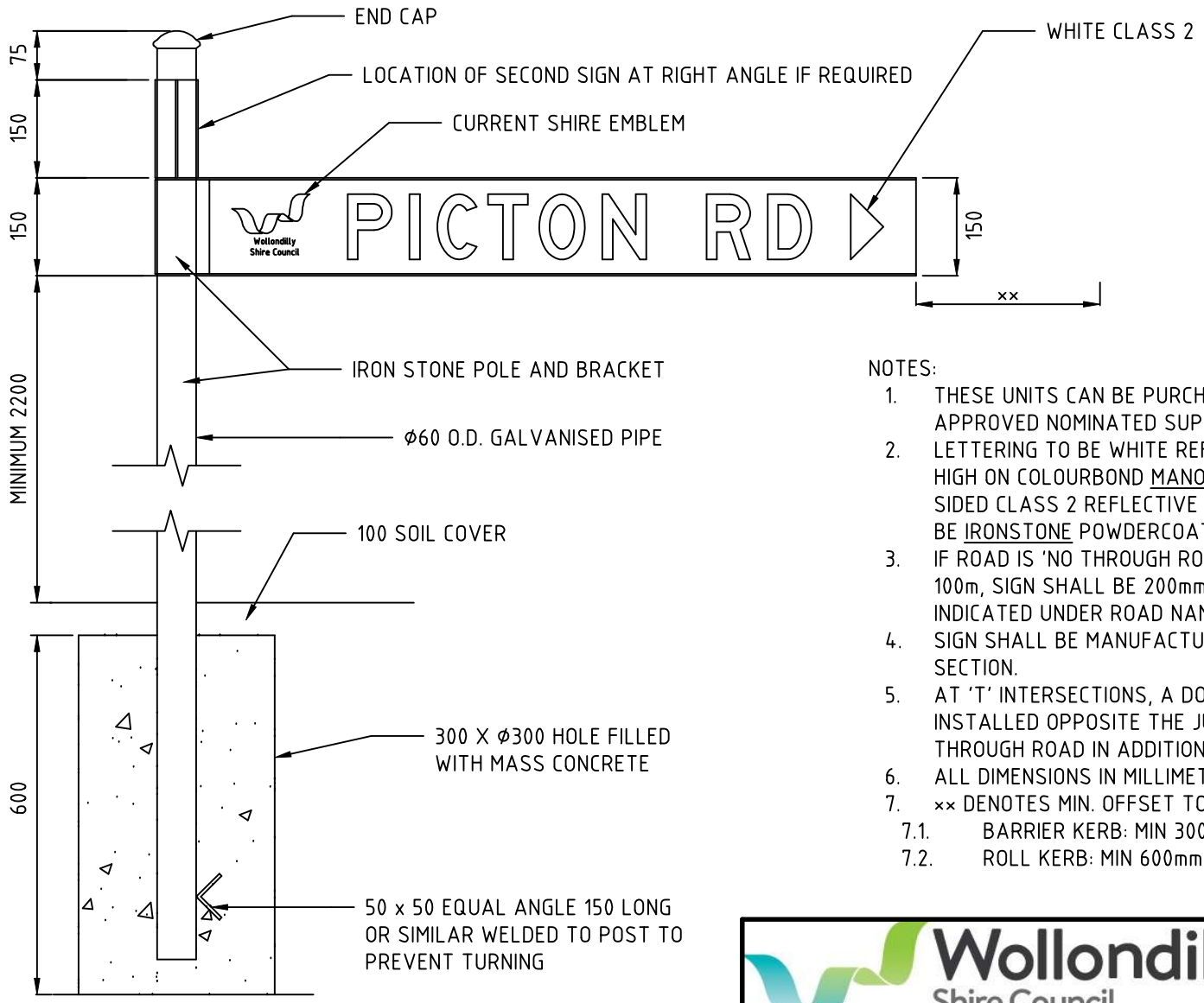
EDGE STRIP

NOTES:

1. ROAD SUB-BASE TO EXTEND A MINIMUM 150mm BEHIND KERBS, GUTTERS AND DISH CROSSINGS.
2. FULL DEPTH PAVEMENT MUST BE PROVIDED UNDER DISH CROSSINGS AT INTERSECTIONS.
3. CONCRETE COMPRESSIVE STRENGTH (f'c) TO BE A MINIMUM 20MPa AT 28 DAYS FOR ALL KERB TYPES SHOWN.
4. REINFORCING FABRIC TO AS 1304 WELDED WIRE REINFORCING FABRIC FOR CONCRETE.
5. WHERE CONDUITS ARE PLACED PRIOR TO KERB CONSTRUCTION, KERB FACES SHALL BE MARKED FOR LOCATION WITH AN APPROVED TOOL.
6. ALTERNATIVE PRODUCTS SHALL BE SUBMITTED FOR COUNCILS APPROVAL BEFORE USE.

Wollondilly Shire Council	DRAWN O.S. DATE: 12/01/16	SCALE NO SCALE @ A4
STANDARD KERB AND GUTTERS	APPROVED BY M.NELSON DATE: 01.03.2016	DRAWING NO. WSC.D1.12 SHEET 1 OF 1

FILENAME:WSC.D1.14__2016 PLOT DATE: 01.03.2016

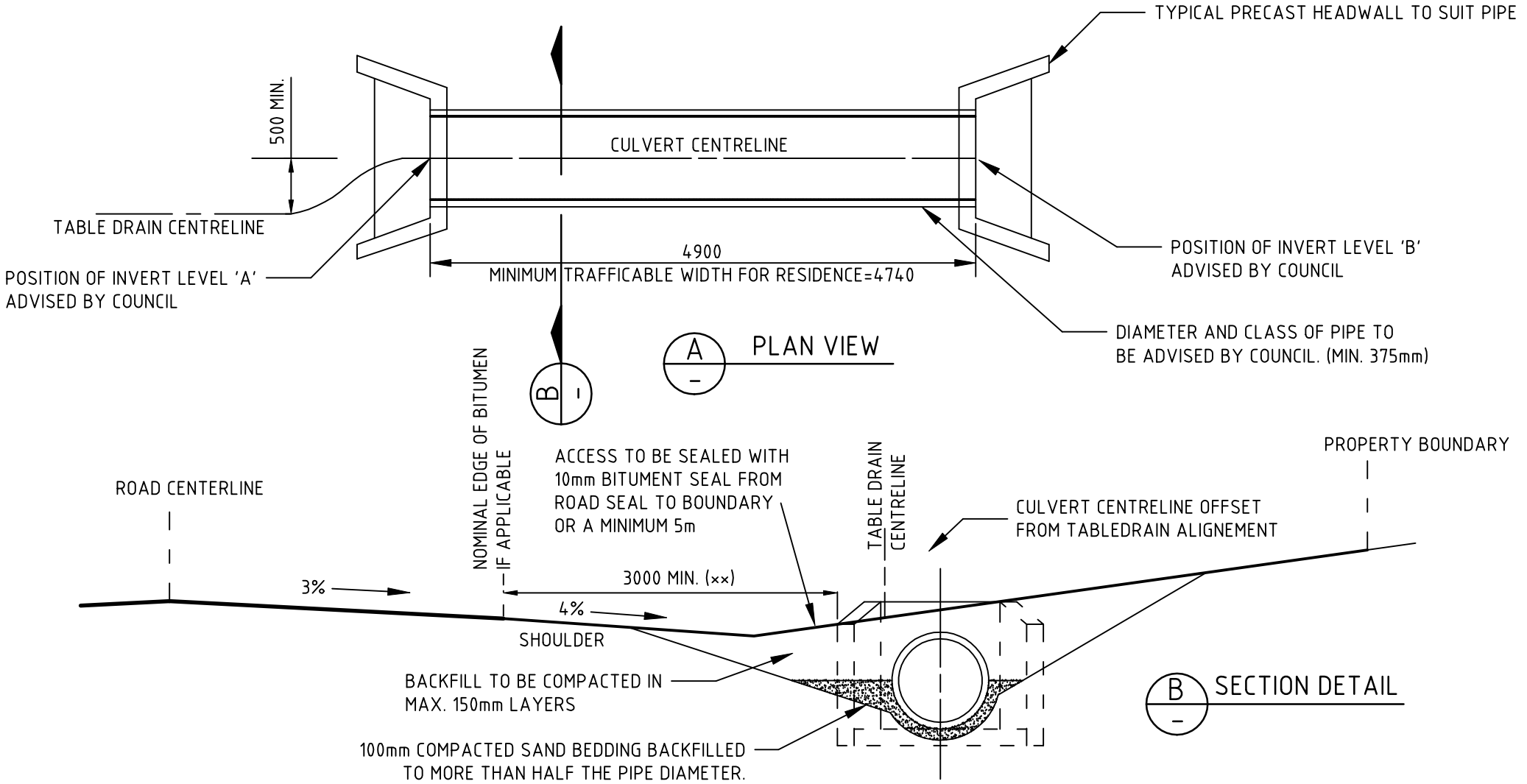


NOTES:

1. THESE UNITS CAN BE PURCHASED COMPLETE FROM COUNCILS APPROVED NOMINATED SUPPLIER.
2. LETTERING TO BE WHITE REFLECTORISED, SERIES D 100mm HIGH ON COLOURBOND MANOR RED POWDERCOAT, DOUBLE SIDED CLASS 2 REFLECTIVE MATERIAL. POLE AND BRACKET TO BE IRONSTONE POWDERCOAT.
3. IF ROAD IS 'NO THROUGH ROAD' OF LENGTH IN EXCESS OF 100m, SIGN SHALL BE 200mm WIDE WITH 'NO THROUGH ROAD' INDICATED UNDER ROAD NAME IN LETTERING 25mm HIGH.
4. SIGN SHALL BE MANUFACTURED AS EXTRUDED ALUMINIUM 'I' SECTION.
5. AT 'T' INTERSECTIONS, A DOUBLE ENDED SIGN SHALL BE INSTALLED OPPOSITE THE JUNCTION TO INDICATE THE THROUGH ROAD IN ADDITION TO THE OFF-TAKE ROAD.
6. ALL DIMENSIONS IN MILLIMETERS UNLESS NOTED OTHERWISE.
7. ×× DENOTES MIN. OFFSET TO FACE OF KERB
   - 7.1. BARRIER KERB: MIN 300mm
   - 7.2. ROLL KERB: MIN 600mm

Wollondilly Shire Council	DRAWN O.S. DATE: 12/01/16	SCALE 1:10 @ A4
STANDARD STREET SIGN DETAIL	APPROVED BY M.NELSON DATE: 01.03.2016	DRAWING NO. WSC.D1.14 SHEET 1 OF 1

FILENAME:WSC.D1.16_2016 PLOT DATE: 01.03.2016

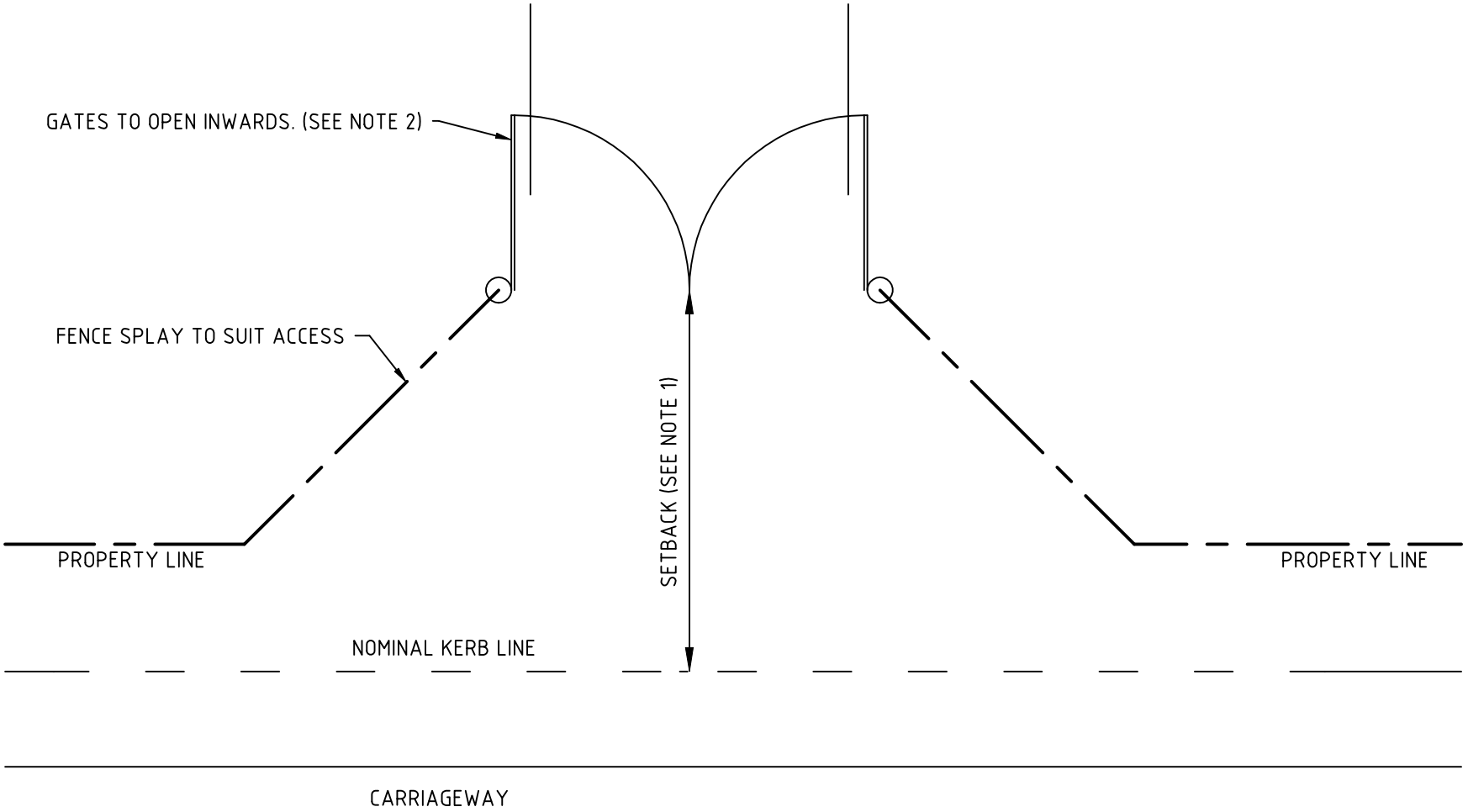


NOTES:

1. THIS PLAN IS TO BE READ IN CONJUNCTION WITH "THE PROPERTY ENTRANCE APPLICATION FORM-PIPED CULVERT AND GRAVEL ENTRANCES".
2. INSPECTIONS OF THE WORK BY COUNCIL OF THE WORK THE BE ARRANGED AS PER THE ABOVE FORM.
3. ACCESS TO BE BITIMEN SEALED WITH 10MM SPRAY SEAL .
4. ×× INDICATES DIMENSIONS TO BE CONFIRMED BY COUNCIL.

Wollondilly Shire Council	DRAWN O.S. DATE: 12/01/16	SCALE 1:50 @ A4
STANDARD RURAL PIPE CROSSING AND GATE SETBACK.	APPROVED BY M.NELSON DATE: 01.03.2016	DRAWING NO. WSC.D1.16 SHEET 1 OF 2

FILENAME:WSC.D1.16_2016 PLOT DATE: 01.03.2016



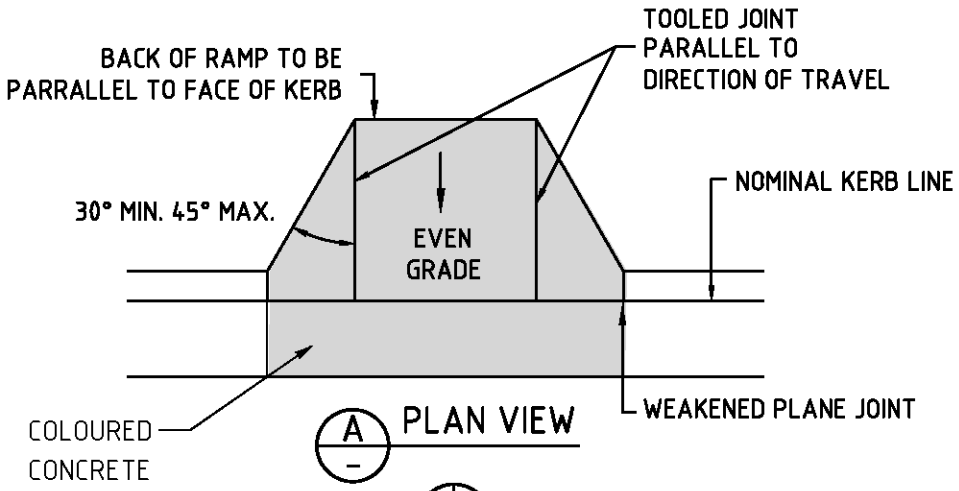
PROPERTY GATE SETBACK FOR RURAL ACESS

NOTES:

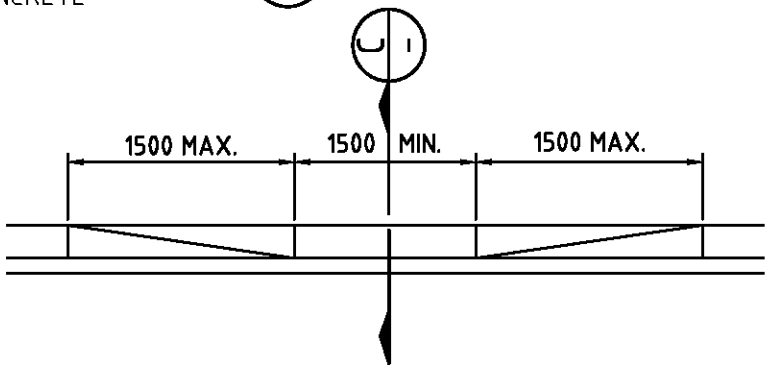
1. GATE SETBACK DISTANCES SHOULD BE PROVIDED AS FOLLOWS:
   - CAR: 6m
   - 12.5m SUT: 15m
   - 19m SEMI: 22m
   - B-DOUBLE: 28m
2. IF GATES MUST OPEN OUTWARDS, A MINIMUM OF 4m SHALL BE ADDED TO THE SETBACK DISTANCE OUTLINED IN NOTE 1.

Wollondilly Shire Council	DRAWN O.S. DATE: 12/01/16	SCALE 1:100 @ A4
STANDARD RURAL PIPE CROSSING AND GATE SETBACK.	APPROVED BY M.NELSON DATE: 01.03.2016	DRAWING NO. WSC.D1.16 SHEET 2 OF 2

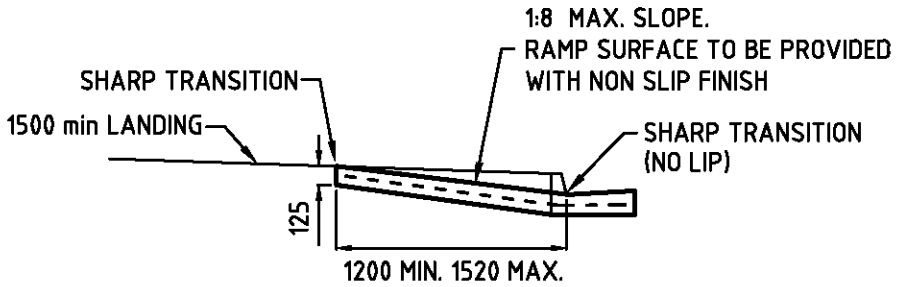
FILENAME:WSC.D1.17_2016 PLOT DATE: 14.04.2021



A PLAN VIEW



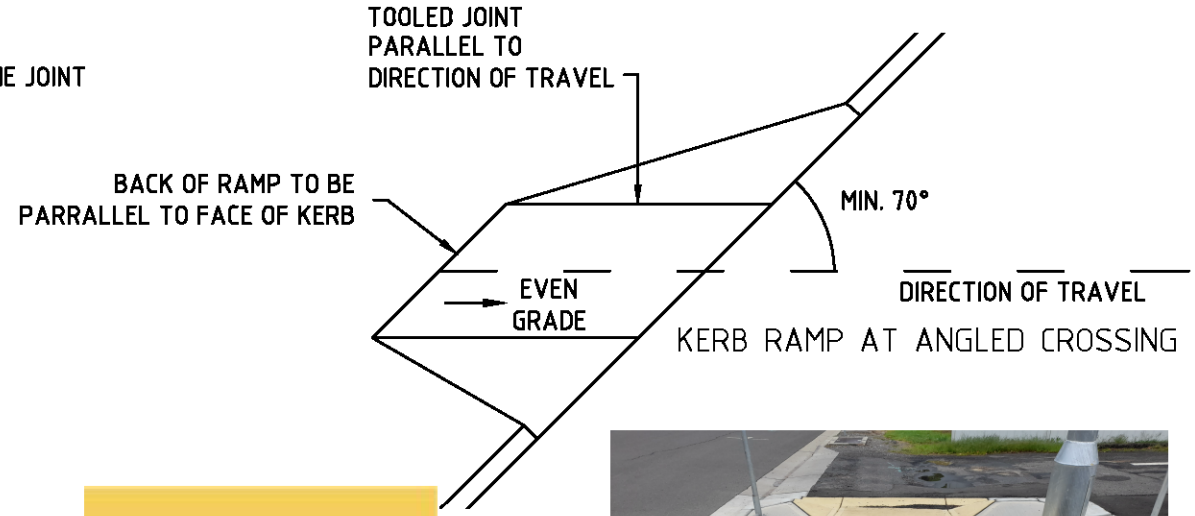
B ELEVATION



C SECTION

NOTES:

1. CONCRETE TO OBTAIN A MINIMUM 28 DAY STRENGTH OF 25MPa.
2. KERB RAMPS TO BE CONSTRUCTED AS A SINGLE POUR INTEGRATED WITH GUTTER.
3. RAMP, WINGS AND GUTTER TO BE COLOURED YELLOW.
4. COLOUR TO BE FULL DEPTH USING UV PROTECTED OXIDES, INTEGRATED INTO THE CONCRETE MIX BY ADDING UPTO 5% PIGMENT, BY WEIGHT OF CEMENT, TO GREY CONCRETE.
5. YELLOW COLOUR TO BE SIMILAR TO AS2700-COLOUR STANDARDS FOR GENERAL PURPOSES, Y21 (PRIMROSE).



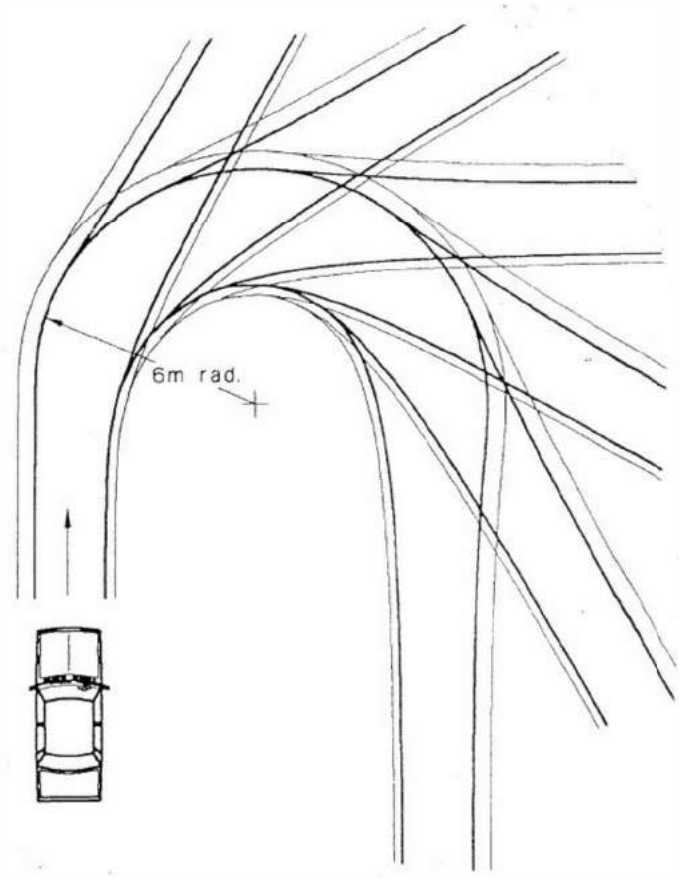
KERB RAMP AT ANGLED CROSSING

Y21 Primrose

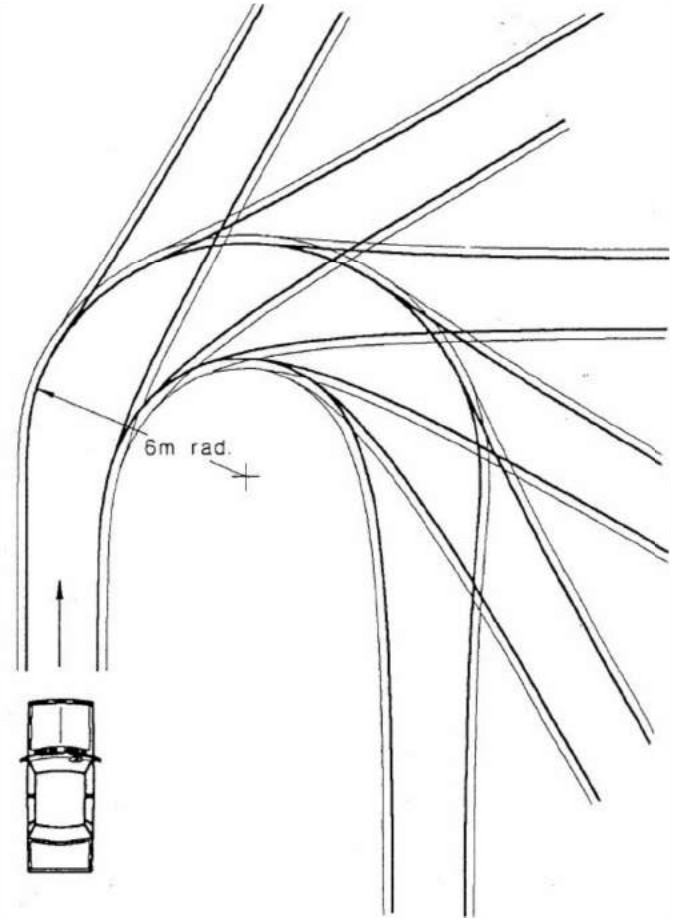
Wollondilly Shire Council

STANDARD KERB RAMP CROSSING	DRAWN O.S. DATE: 14/04/21	SCALE 1:50 @ A4
	APPROVED BY M.NELSON DATE: 14/04/21	DRAWING NO. WSC.D1.17 SHEET 1 OF 1

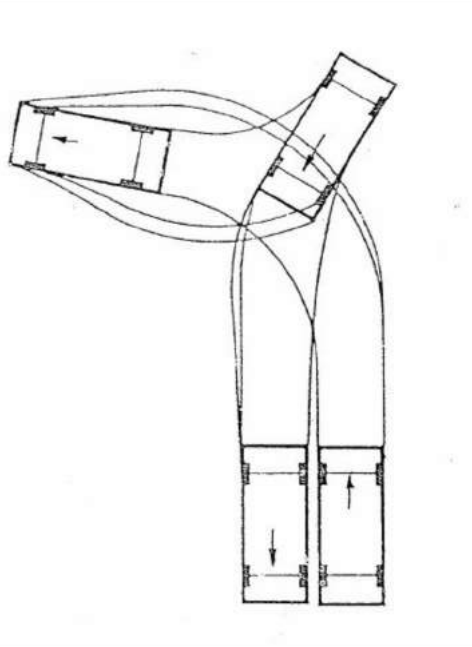
FILENAME:WSC.D1.18_2016 PLOT DATE: 01.03.2016



DESIGN CAR (B99)



DESIGN CAR (B85)



TURN PATH FOR CARPARKS

0 1 2 3 4 5 6

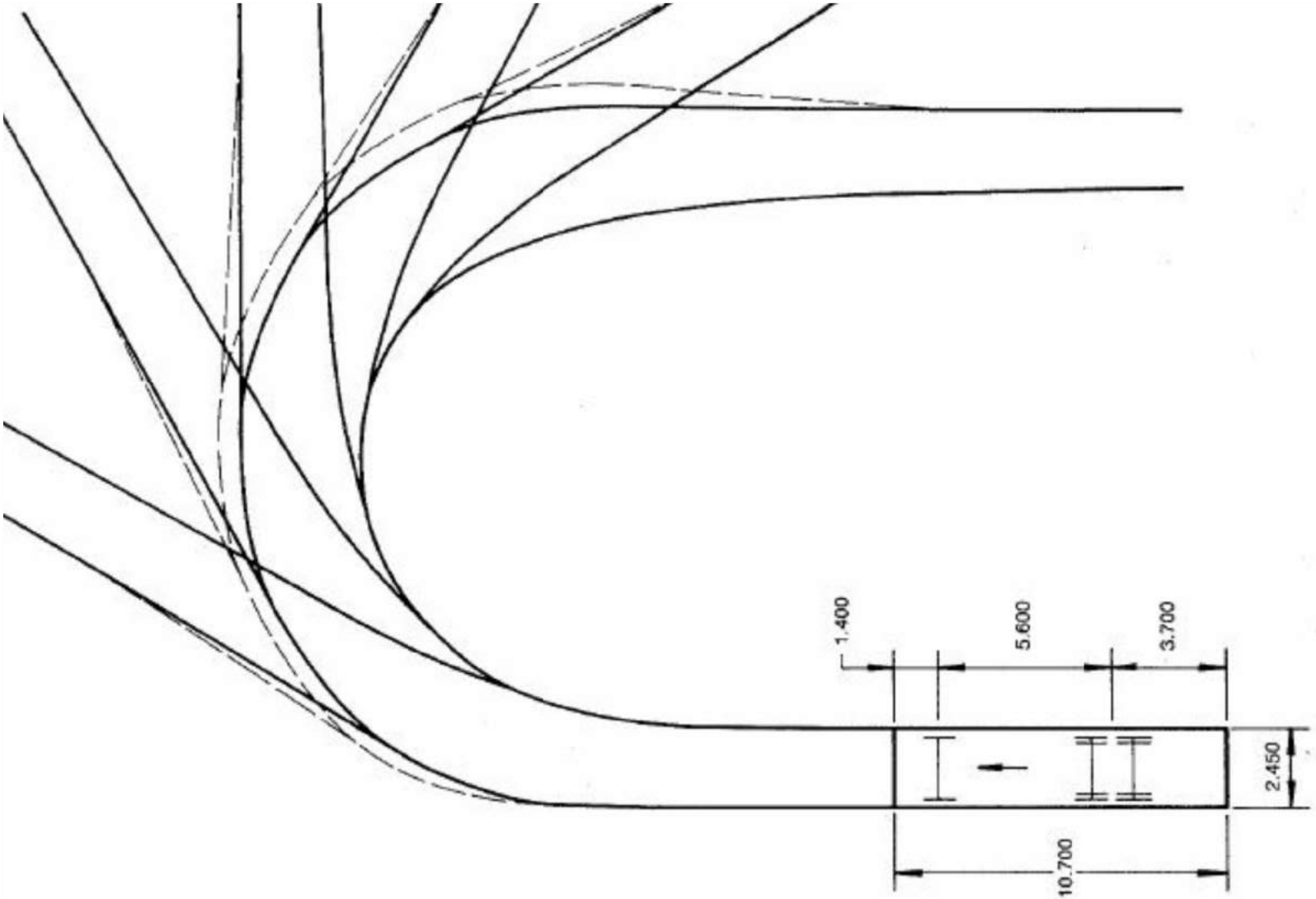
1:200

Wollondilly Shire Council

TURNING TEMPLATE FOR DESIGN CARS

DRAWN DATE: 12/01/16	SCALE 1:200 @ A4
APPROVED BY M.NELSON DATE: 01.03.2016	DRAWING NO. WSC.D1.18 SHEET 1 OF 1

FILENAME:WSC.D1.21_2016 PLOT DATE: 01.03.2016



RIGID VEHICLE
(WASTE RECOVERY VEHICLE)

0 1 2 3 4 5 6
1:200

Wollondilly Shire Council

TURNING TEMPLATE FOR RIGID VEHICLES
(SERVICE AND WASTE RECOVERY VEHICLE)

DRAWN
DATE: 12/01/16

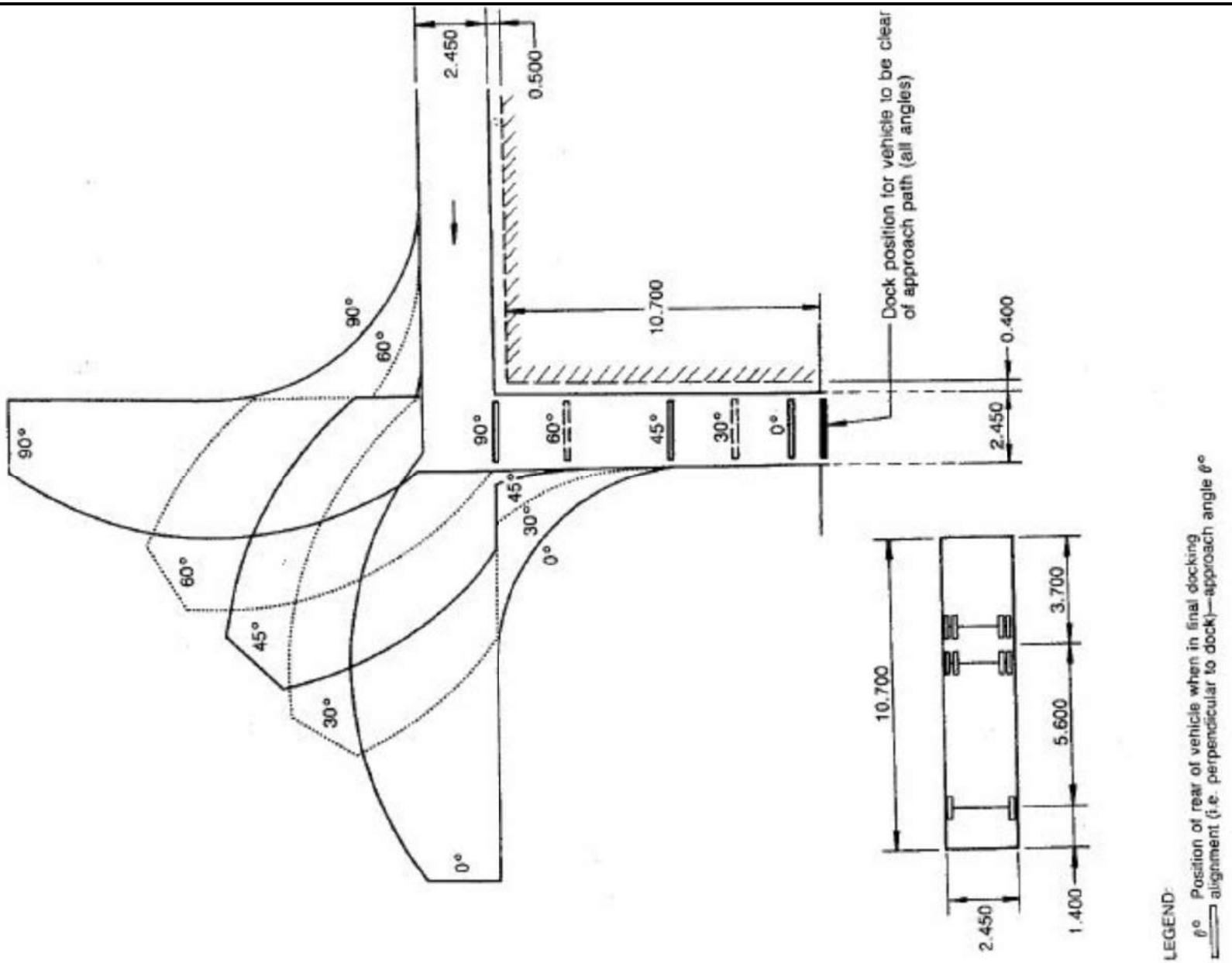
APPROVED BY
M.NELSON
DATE: 01.03.2016

SCALE
1:200 @ A4

DRAWING NO.
WSC.D1.21
SHEET 1 OF 1

FILENAME:WSC.D1.22__2016

PLOT DATE: 01.03.2016



RIGID VEHICLE
(WASTE RECOVERY VEHICLE)

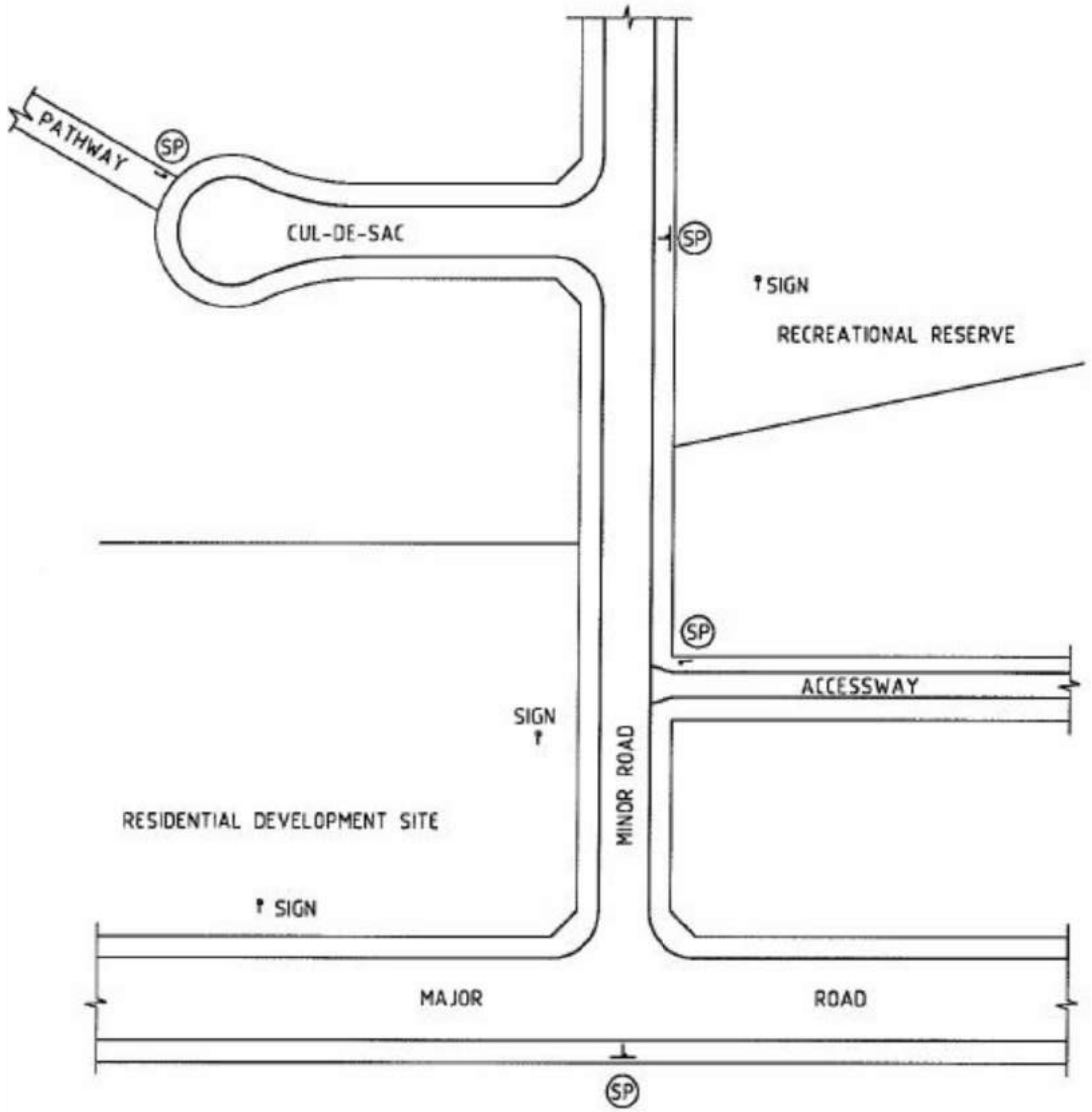
0 1 2 3 4 5 6

1:200

Wollondilly Shire Council

MANOEUVRE TEMPLATE FOR RIGID VEHICLES (SERVICE AND WASTE RECOVERY VEHICLE)	DRAWN DATE: 12/01/16	SCALE 1:200 @ A4
	APPROVED BY M.NELSON DATE: 01.03.2016	DRAWING NO. WSC.D1.22 SHEET 1 OF 1

FILENAME:WSC.D1.24_2016 PLOT DATE: 01.03.2016

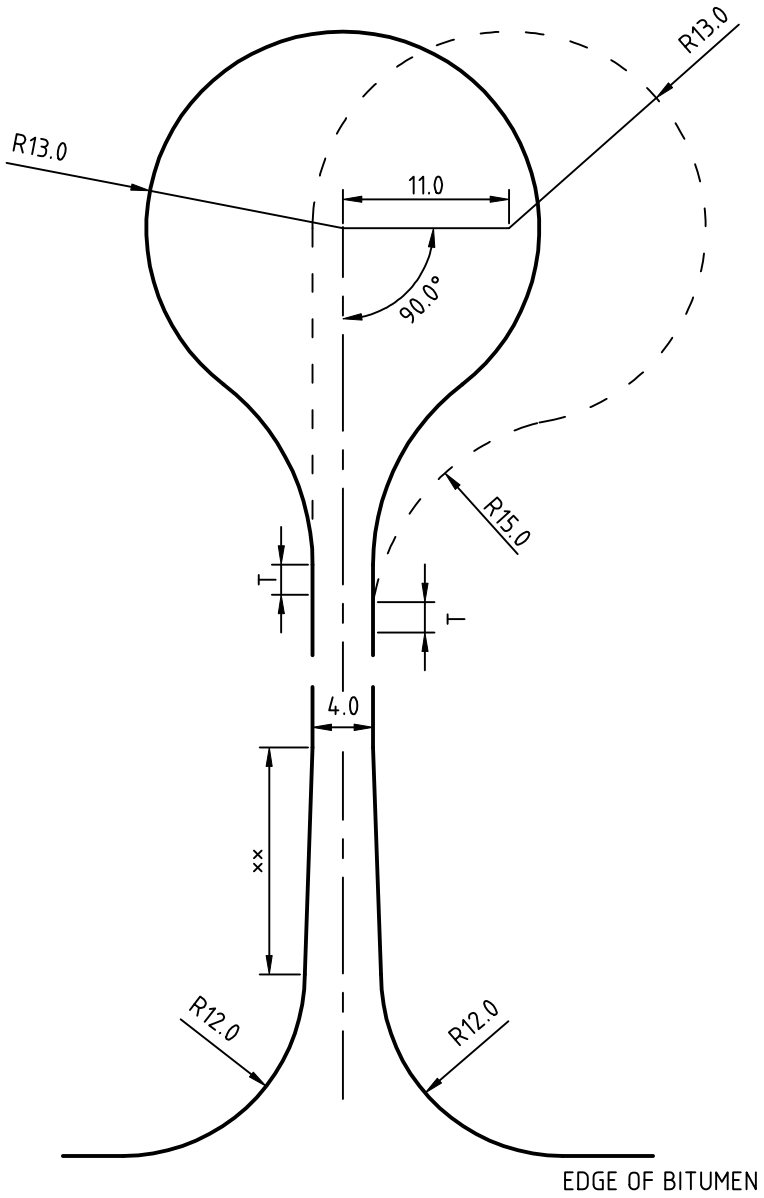


NOTES:

1. TYPE OF STREET AND PATH SIGN AND POST TO BE IN ACCORDANCE WITH WSC.D1.14.
2. 'SP' DENOTES SIGN POST LOCATION.

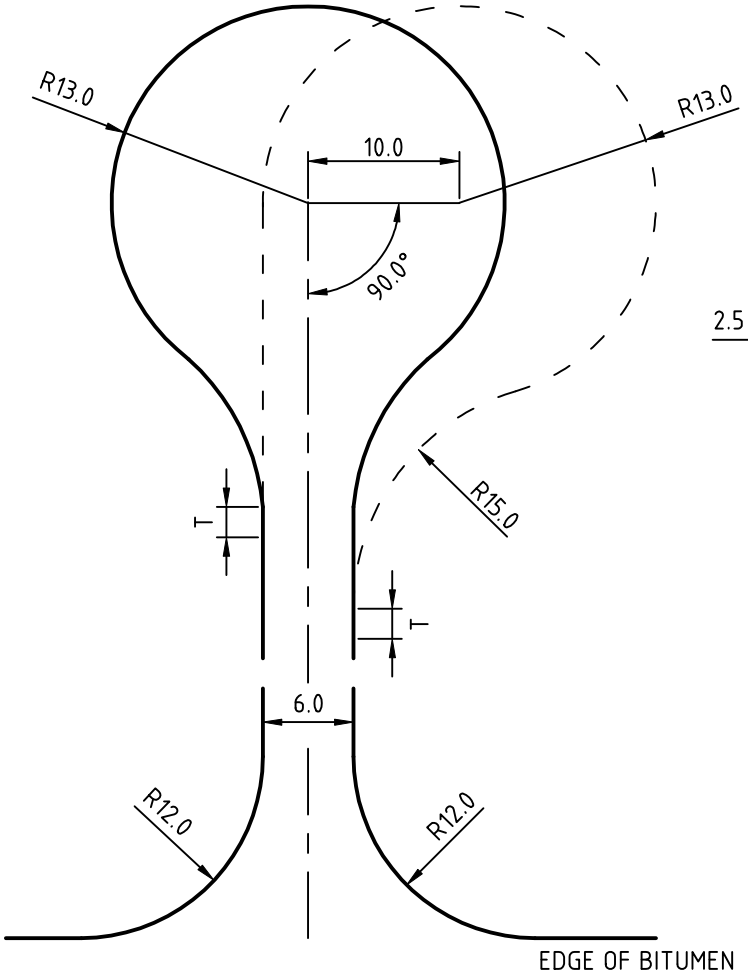
Wollondilly Shire Council	DRAWN DATE: 12/01/16	SCALE 1:--- @ A4
SIGN POST LOCATIONS	APPROVED BY M.NELSON DATE: 01.03.2016	DRAWING NO. WSC.D1.24 SHEET 1 OF 1

FILENAME:WSC.D1.25_2016 PLOT DATE: 01.03.2016

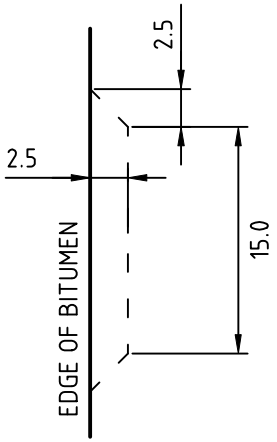


CATEGORY G2 (4m SEAL)

xx INDICATES TRANSITION WIDTH OVER MIN. 15m.
T INDICATES KERB TRANSITION, MIN. LENGTH=2.0m.



CATEGORY G1 (6m SEAL) AND CATEGORY G2

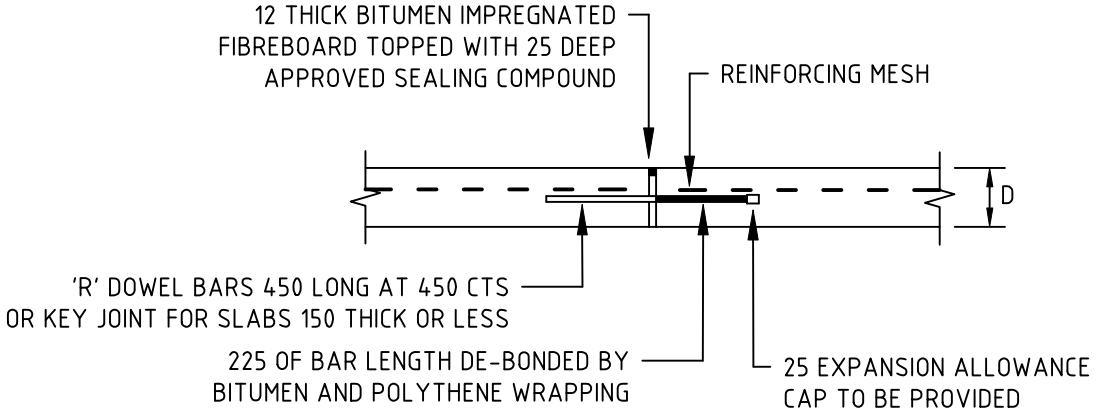


PASSING BAYS TO BE SPACED AT 100m MAX.

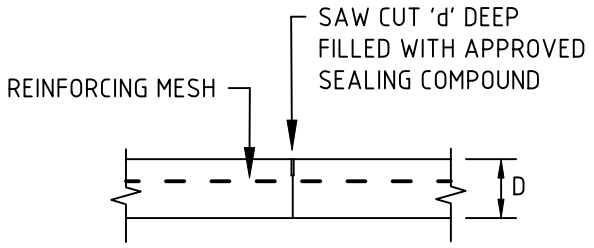
TYPICAL PASSING BAY

Wollondilly Shire Council	DRAWN O.S. DATE: 12/01/16	SCALE 1:500 @ A4
CUL-DE-SAC HEAD TYPICAL LAYOUT FOR CATEGORY G1 & G3 ROADS	APPROVED BY M.NELSON DATE: 01.03.2016	DRAWING NO. WSC.D1.25 SHEET 1 OF 1

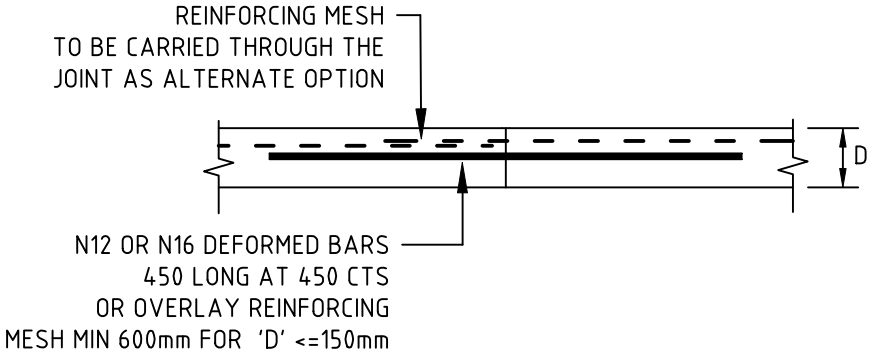
FILENAME:WSC.D2.2__2016 PLOT DATE: 01.03.2016



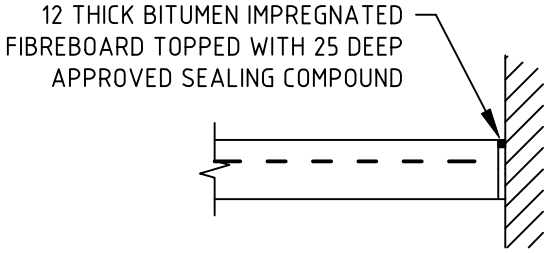
EXPANSION JOINT



CRACK CONTROL JOINT



CONSTRUCTION (BUTT) JOINT



ISOLATION JOINT (IJ)

NOTES:

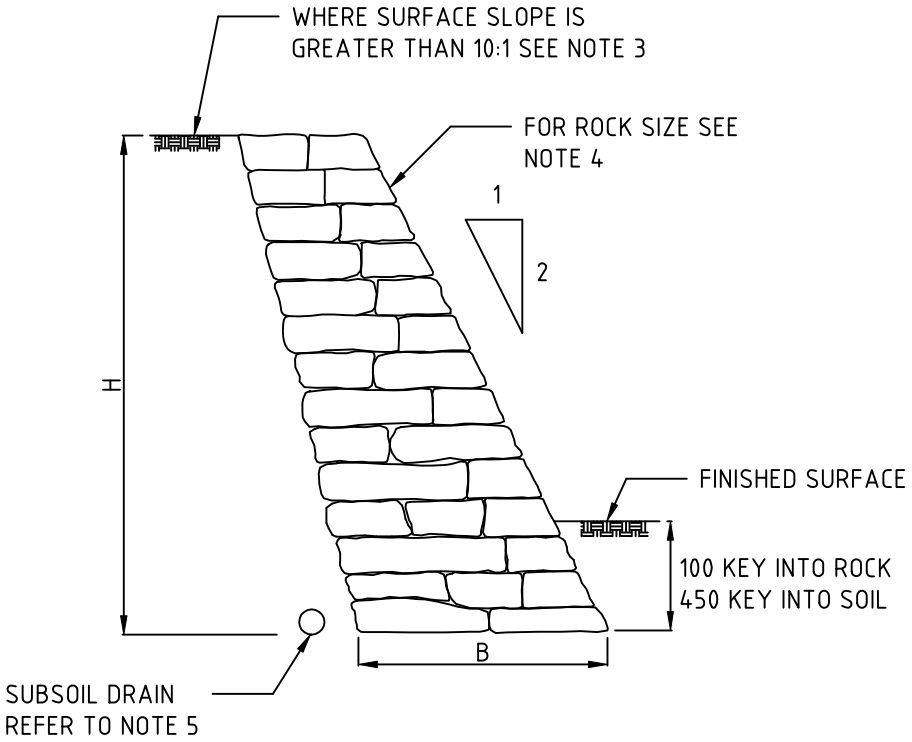
1. WHERE CONSTRUCTION JOINTS ARE REQUIRED IN POSITIONS MORE THAN 3000mm FROM A CONTRACTION JOINT OR EXPANSION JOINT, A SEALING GROOVE, SIMILAR TO TRANSVERSE CONTRACTION JOINT SHALL BE INCORPORATED.
2. ALL EXPOSED CONCRETE EDGES TO BE ROUNDED TO A 5mm RADIUS.
3. FOR KERB DETAILS REFER TO DRG. No. WSC.D1.12
4. FOR PAVEMENT WIDTH REFER TO DRG. No. WSC.D1.1, DRG. No. WSC.D1.2, TABLE D13.5 OF THE DEVELOPMENT CONTROL PLAN AND THE COUNCILS DESIGN SPECIFICATIONS.
5. SUBGRADE TO BE COMPACTED AND APPROVED BASE AND SUBBASE COURSE/S LAID PRIOR TO CONCRETE WORK COMMENCING.

THICKNESS 'D'	REINFORCING MESH	DOWEL 'R'	SAW DEPTH 'd'
125mm	SL72	12mm	30mm
150mm	SL82	16mm	40mm
225mm	SL82 T & B	20mm	50mm

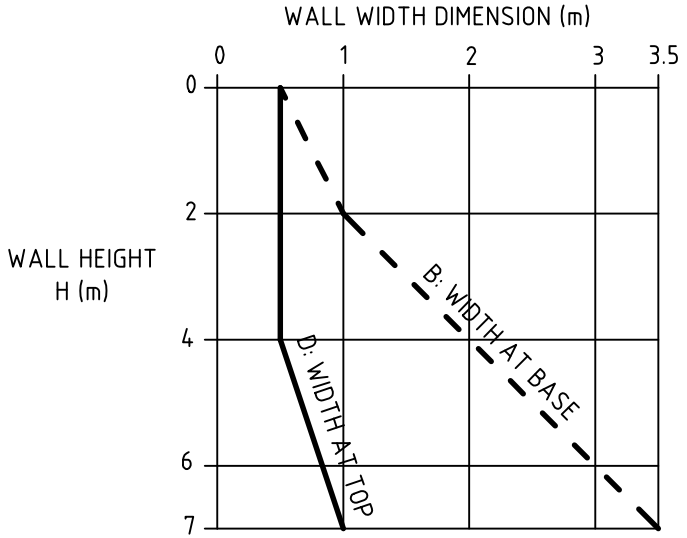
Wollondilly Shire Council

REINFORCED CONCRETE DRIVEWAY AND PATHWAY JOINTING DETAILS	DRAWN O.S. DATE: 12/01/16	SCALE 1: --- @ A4
	APPROVED BY M.NELSON DATE: 01.03.2016	DRAWING NO. WSC.D2.2 SHEET 1 OF 1

FILENAME:WSC.D3.1_2016 PLOT DATE: 01.03.2016



TYPICAL ROCK WALL GEOMETRY



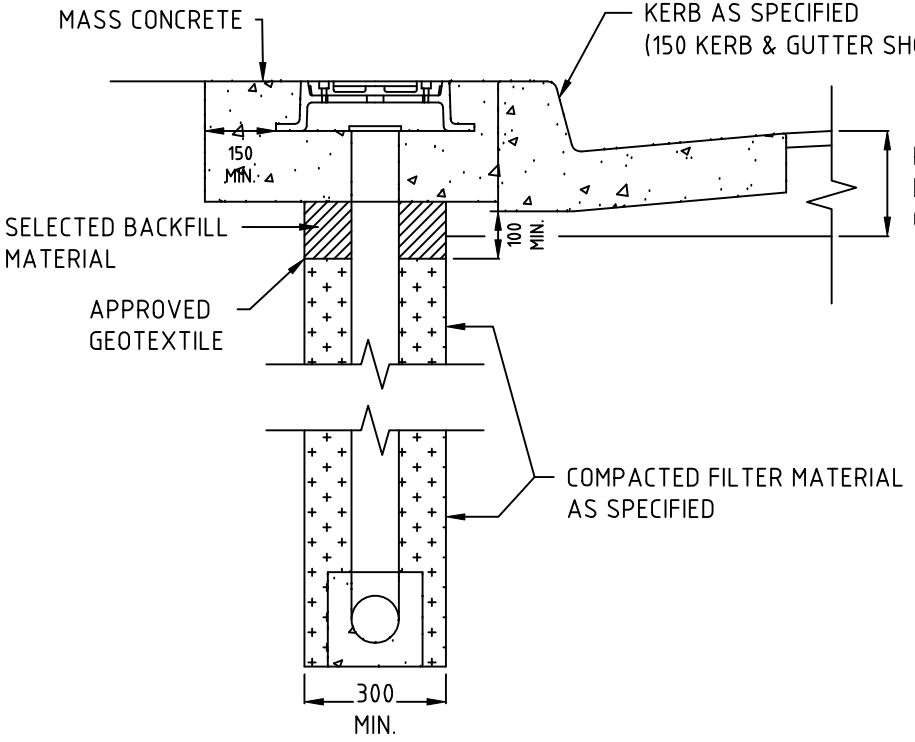
ROCK WALL DESIGN CHART

NOTES:

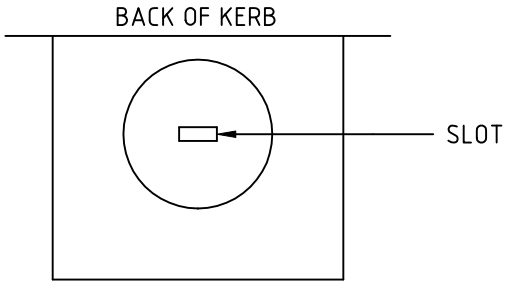
1. BACKFILL IS TO BE GRANULAR, FREE DRAINING AND COMPACTED.
2. FOUNDATION TO BE APPROVED FOR A SAFE BEARING CAPACITY OF 200kPa PRIOR TO CONSTRUCTION.
3. WHERE THE SURFACE IS SLOPE OF RETAINED MATERIAL IS BETWEEN 10:1 AND 4:1 THE WALL BASE DIMENSION IS TO BE INCREASED BY 0.5m.
4. ROCK IS TO BE SOUND, DURABLE SANDSTONE OR OTHER APPROVED MATERIAL AND AT LEAST 0.5^2 PLAN AREA.
5. A CONTINUOUS ⌀100 SUBSOIL DRAIN IS TO BE INSTALLED AT THE REAR OF THE WALL WHERE THE WALL HEIGHT EXCEEDS 3.0m OR WHERE THE WALL FOUNDATION IS A MATERIAL OTHER THAN ROCK.
6. ROCKS SHALL BE PLACED IN SUCH A MANNER THAT THEY ARE STABLE AND INTERLOCKING, LAID ROUGHLY COURSED AND BEDDED ON THEIR BROADEST BASE.

Wollondilly Shire Council	DRAWN O.S. DATE: 12/01/16	SCALE NO SCALE @ A4
ROCK RETAINING WALL	APPROVED BY M.NELSON DATE: 01.03.2016	DRAWING NO. WSC.D3.1 SHEET 1 OF 1

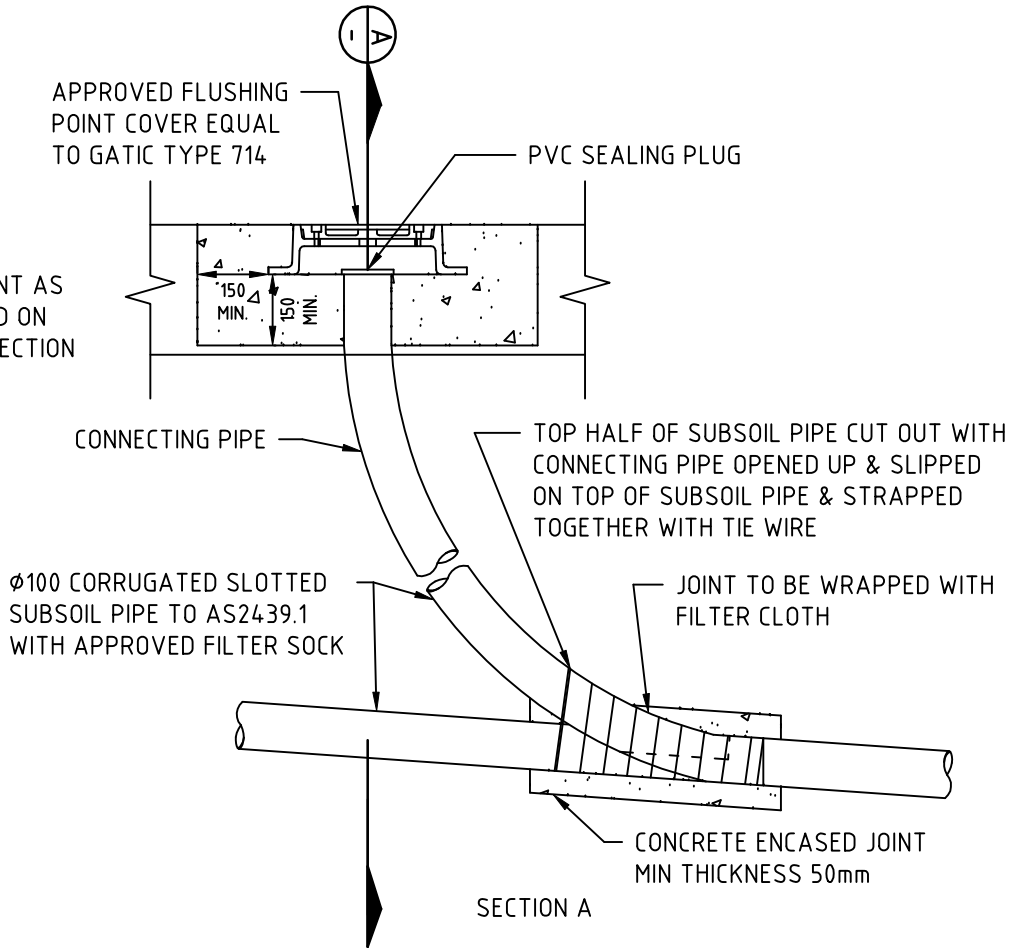
FILENAME:WSC.D4.1_2016 PLOT DATE: 01.03.2016



SECTION A



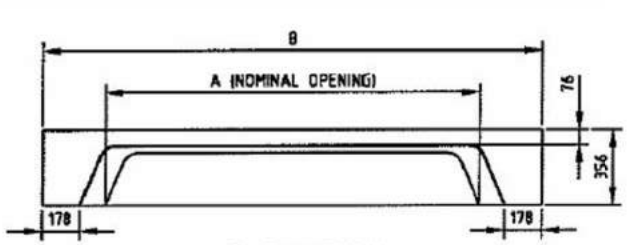
PLAN OF COVER



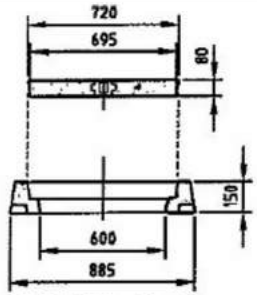
ELEVATION OF SUBSOIL FLUSHING POINT

Wollondilly Shire Council	DRAWN O.S. DATE: 12/01/16	SCALE NO SCALE @ A4
SUBSOIL DRAINAGE FLUSHING POINT	APPROVED BY M.NELSON DATE: 01.03.2016	DRAWING NO. WSC.D4.1 SHEET 1 OF 1

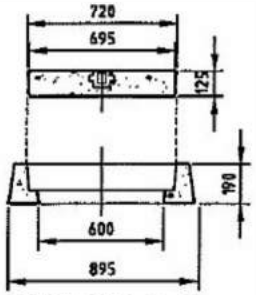
FILENAME:WSC.D5.3__2016 PLOT DATE: 01.03.2016



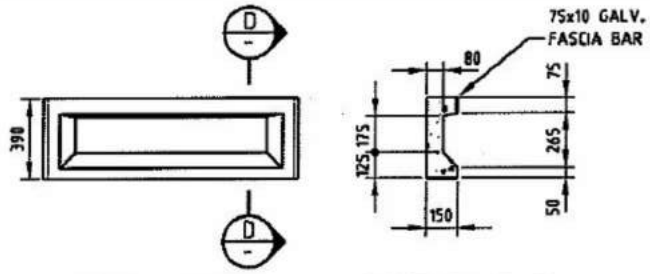
ELEVATION



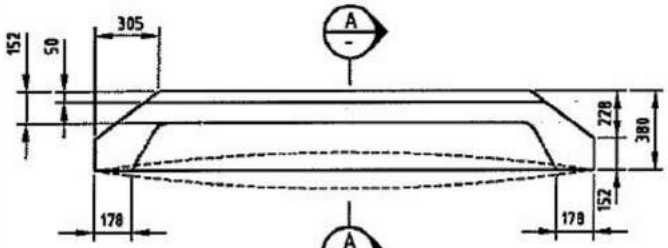
SECTION B-B



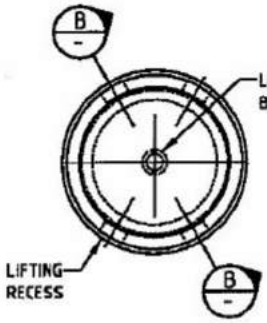
SECTION C-C



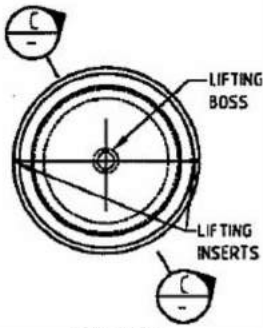
ELEVATION SECTION D-D



PLAN



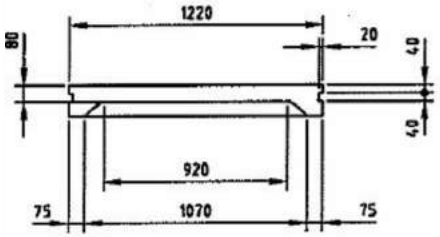
PLAN



PLAN

LIGHTWEIGHT TYPE HEAVY DUTY TYPE

PRECAST MANHOLE COVER AND SURROUND
REINFORCEMENT TO PWD STANDARDS

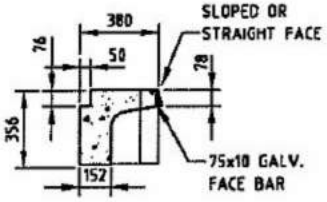


PLAN

1220 PATHWAY KERB INLET

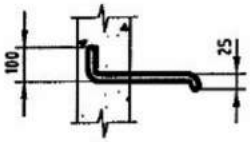
A	B	WEIGHT
1800	2400	0.457t
2400	3000	0.579t
3000	3600	0.701t

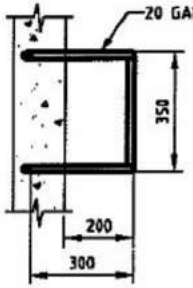
* STANDARD SIZE
CONCAVE / CONVEX UNITS
8300 RADIUS ONLY



SECTION A-A

EXTENDED KERB INLET LINTEL





DETAIL OF CLIMB IRON
CLIMB IRONS SHALL BE PROVIDED AT 450 CTS UNDER LID WHERE PIT IS DEEPER THAN 1 200
NOT TO SCALE

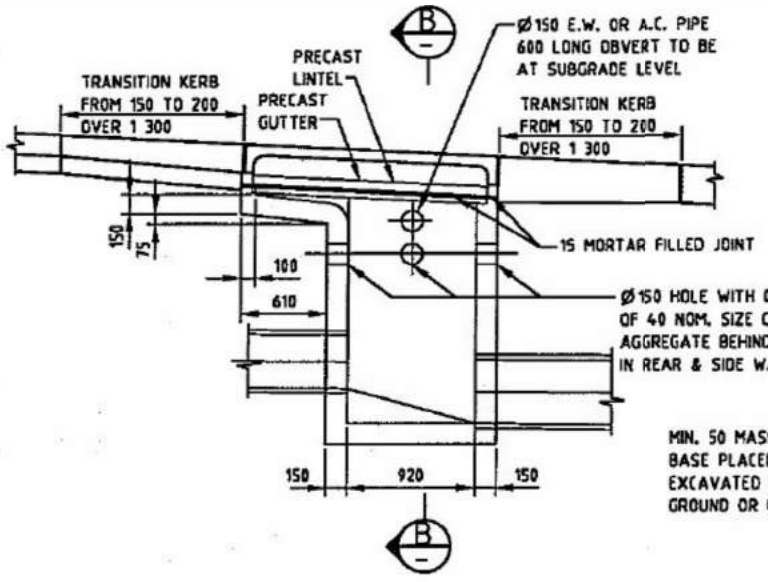
NOTES:

1. ALL PRECAST COMPONENTS TO BE FACTORY PRODUCED OF VIBRATED CONCRETE AND STEAM CURED
2. COMPRESSIVE STRENGTH OF CONCRETE (F'_c) AT 28 DAYS TO BE 30 MPa
3. ALL EXPOSED EDGES TO BE ROUNDED TO 5 RADIUS
4. PROVISIONS TO BE MADE FOR Ø15 LIFTING HOOKS BY INSERTION OF THREADED SOCKETS INTO LINTELS AND SURROUND AT POINT OF BALANCE
5. GALVANIZING TO BE IN ACCORDANCE WITH AUSTRALIAN STANDARD AS1214 - 1983 AND TO BE 375g/m2 FOR ALL EXPOSED COMPONENTS
6. EXPOSED SURFACES TO BE OFF STEEL FORM FINISH OR OF HIGH QUALITY STEEL FLOAT FINISH.

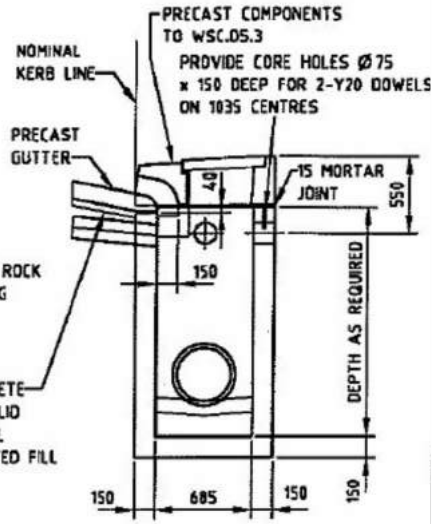
Wollondilly Shire Council

COMPONENTS FOR MISCELLANEOUS PITS	DRAWN DATE: 12/01/16	SCALE 1:--- @ A4
	APPROVED BY M.NELSON DATE: 01.03.2016	DRAWING NO. WSC.D5.3 SHEET 1 OF 1

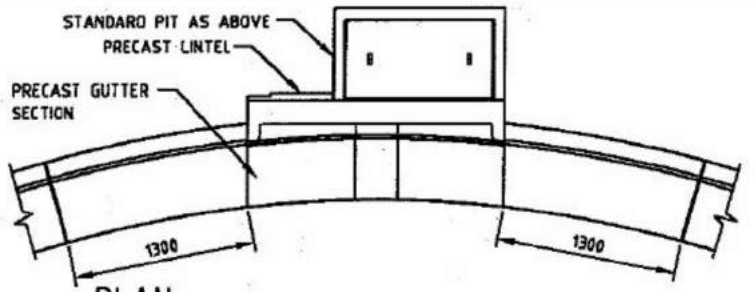
FILENAME:WSC.D5.5__2016 PLOT DATE: 01.03.2016



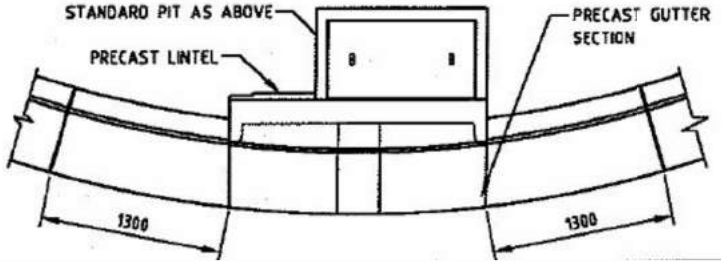
SECTION A-A



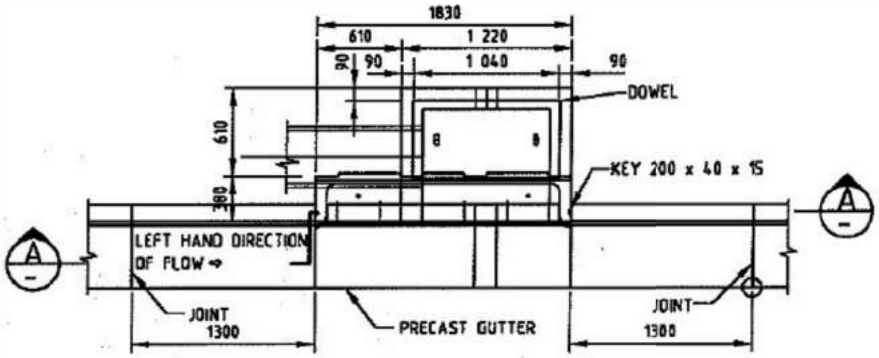
SECTION B-B



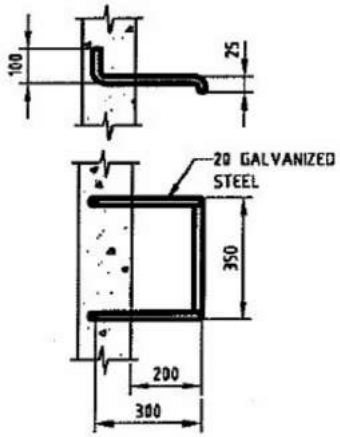
PLAN
STANDARD PIT B CONCAVE)



PLAN
STANDARD PIT C (CONVEX)



PLAN
STANDARD PIT A



DETAIL OF CLIMB IRON
CLIMB IRONS SHALL BE PROVIDED AT 450 CTS UNDER LID WHERE PIT IS DEEPER THAN 1 200
NOT TO SCALE

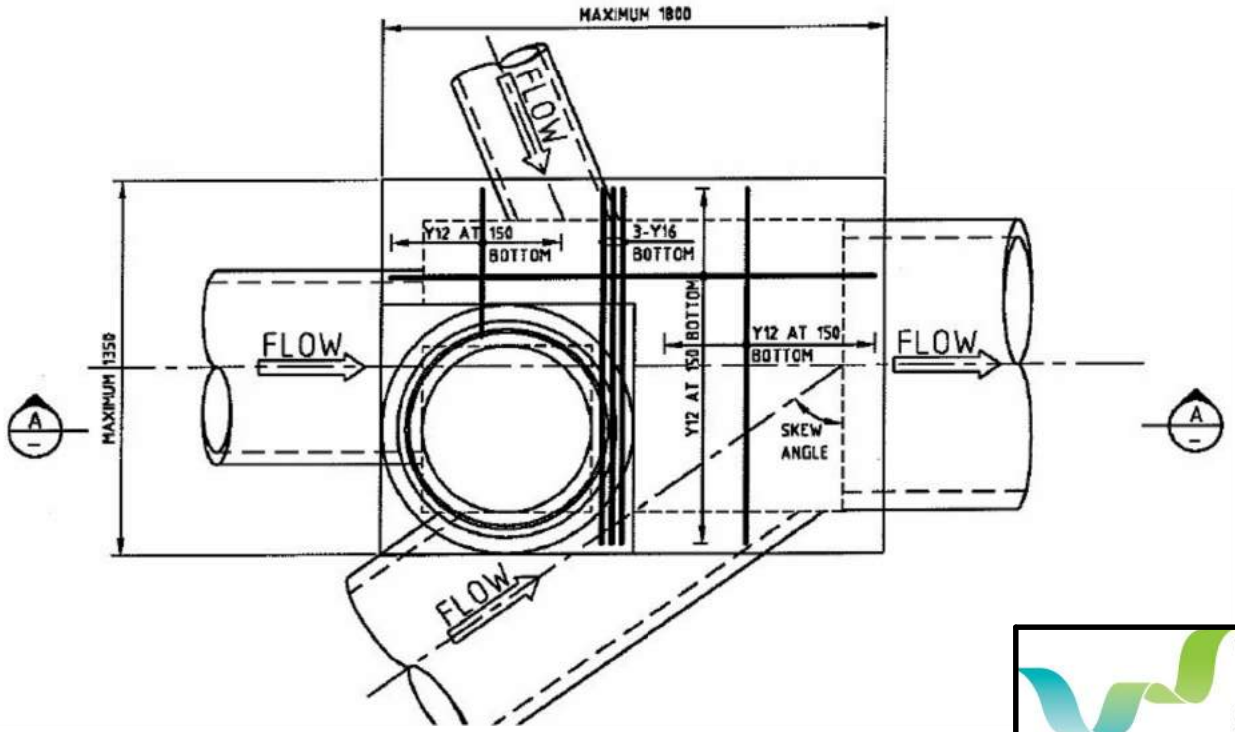
0 500 1000 2000mm
SCALE

NOTES:
1. COMPRESSIVE STRENGTH (f'_c) FOR CAST INSITU CONCRETE TO BE A MINIMUM OF 20 MPa AT 28 DAYS
2. PRECAST GUTTERS ARE MANUFACTURED FOR GUTTER FLOWS FROM LEFT OR RIGHT HAND DIRECTIONS
3. Ø100 SUBSOIL DRAINAGE PIPE 3000 LONG WRAPPED IN FABRIC SOCK TO BE PROVIDED ADJACENT TO INLET PIPES.

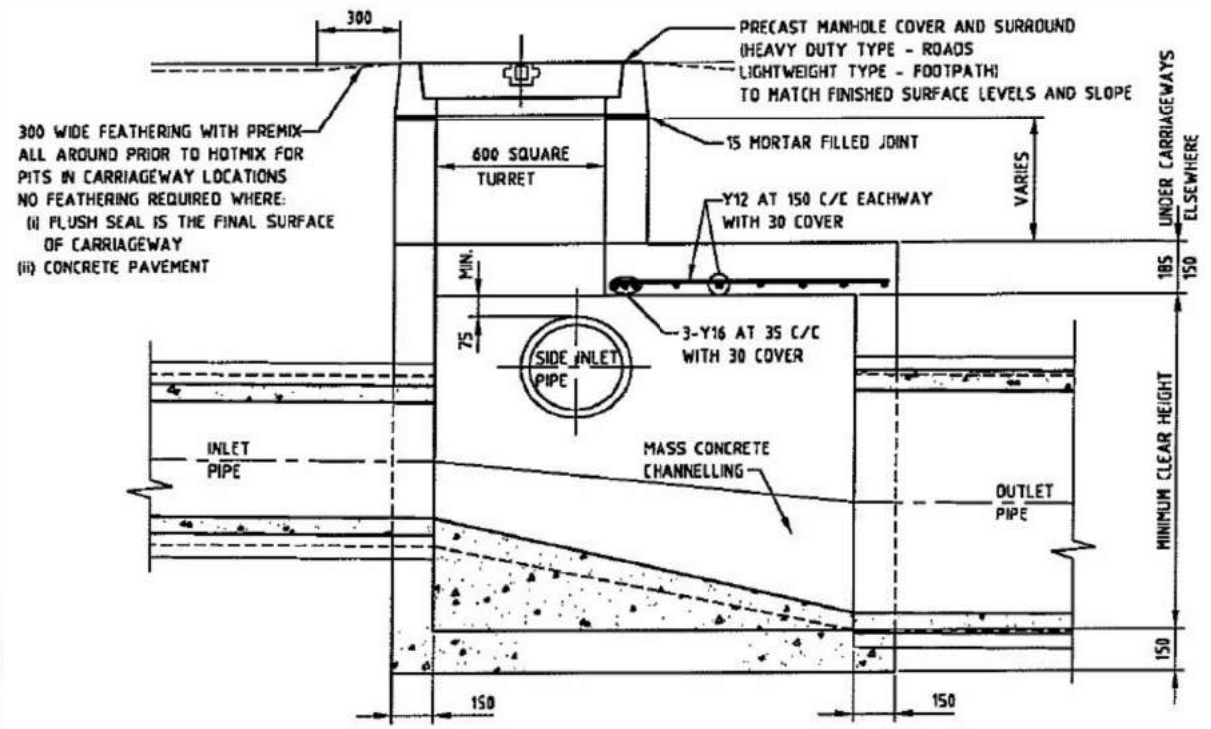
Wollondilly Shire Council

STANDARD KERB INLET PIT	DRAWN DATE: 12/01/16	SCALE 1:--- @ A4
	APPROVED BY M.NELSON DATE: 01.03.2016	DRAWING NO. WSC.D5.5 SHEET 1 OF 1

FILENAME:WSC.D5.6__2016 PLOT DATE: 01.03.2016



PLAN



SECTION A-A

NOTES:

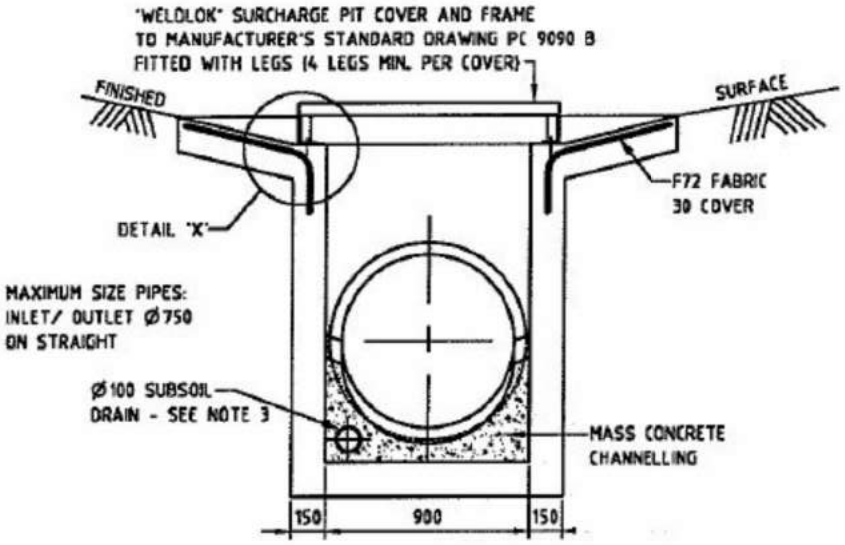
1. Ø100 SUBSOIL DRAINAGE PIPE 3000 LONG WRAPPED IN FABRIC SOCK TO BE PROVIDED ADJACENT TO INLET PIPES
2. MAXIMUM OUTLET PIPE ON STRAIGHT Ø900
3. MAXIMUM OUTLET PIPE ON SKEW Ø825
4. MAXIMUM SIDE ENTRY PIPE Ø825 AT APPROX. 40° SKEW
5. MINIMUM INTERNAL DIMENSIONS - LENGTH 900
   - WIDTH 700
   - HEIGHT 1000
6. COMPRESSIVE STRENGTH (f'_c) FOR CAST INSITU CONCRETE TO BE MINIMUM 20MPa AT 28 DAYS
7. PROVIDE CLIMB IRONS TO WSC.D5.3 WHERE PIT IS DEEPER THAN 1200

0 500 1000mm

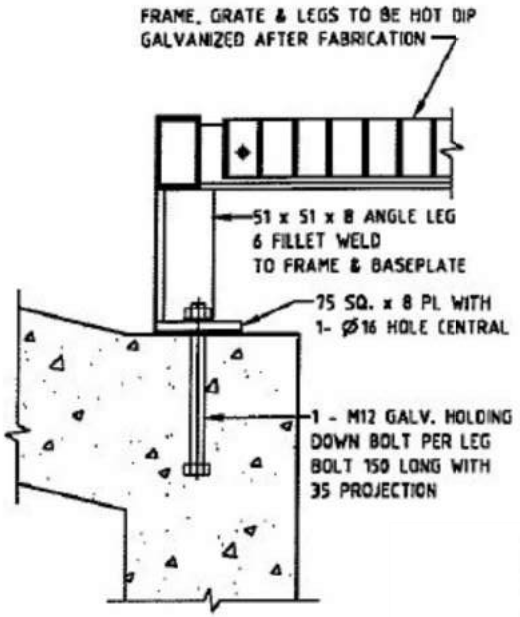
SCALE

Wollondilly Shire Council	DRAWN DATE: 12/01/16	SCALE 1:--- @ A4
STANDARD JUNCTION PIT	APPROVED BY M.NELSON DATE: 01.03.2016	DRAWING NO. WSC.D5.6 SHEET 1 OF 1

FILENAME:WSC.D5.11_2016 PLOT DATE: 01.03.2016



SECTION A-A, SURCHARGE PIT TYPE A



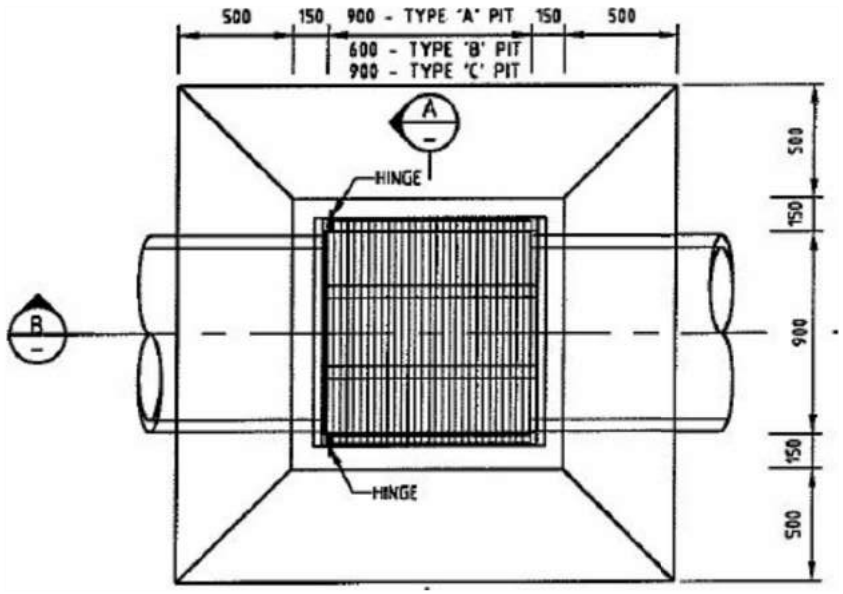
DETAIL 'X'
NOT TO SCALE

NOTES:

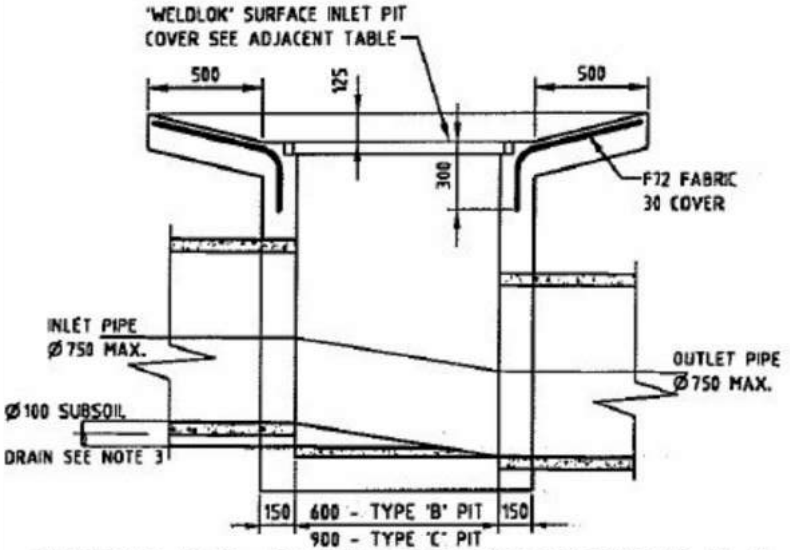
1. COMPRESSIVE STRENGTH OF CONCRETE F'_c AT 28 DAYS TO BE 20 MPa
2. TOP OF BENCHING TO BE HALF OF OUTLET PIPE DIAMETER
3. Ø100 SUBSOIL DRAINAGE PIPE 3000 LONG WRAPPED IN FABRIC SOCK TO BE PROVIDED IN PIPE TRENCHES ADJACENT TO INLET PIPES
4. PROVIDE CLIMB IRONS TO WSC.D5.3 WHERE PIT IS DEEPER THAN 1200.

SURCHARGE PIT SIZES TABLE		
PIT	OPENING SIZE	GRATE TYPE
TYPE A	900 x 900	P.C. 9090 B *
TYPE B	600 x 900	P.C. 6090 A
TYPE C	900 x 900	P.C. 9090 B

* GRATE FITTED WITH LEGS AS PER DETAIL 'X'



PLAN - SURCHARGE PITS
TYPE A,B & C



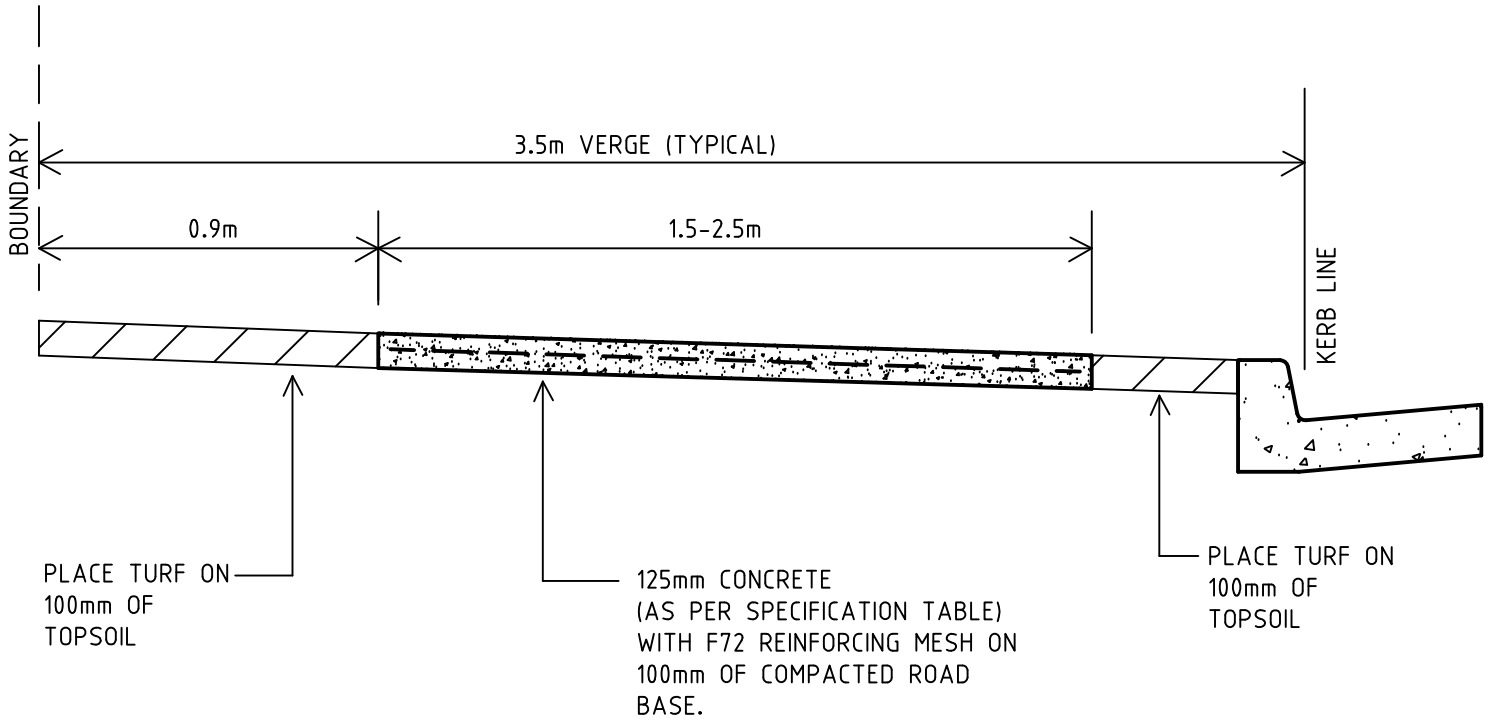
SECTION B-B, SURCHARGE PIT TYPES B & C

0 500 1000 2000mm
SCALE

Wollondilly Shire Council

STANDARD SURCHARGE PIT	DRAWN DATE: 12/01/16	SCALE 1:--- @ A4
	APPROVED BY M.NELSON DATE: 01.03.2016	DRAWING NO. WSC.D5.11 SHEET 1 OF 1

FILENAME:WSC.D9.1_2016 PLOT DATE: 01.03.2016



NOTES:

1. CONCRETE STRENGTH 25MPa (N25).
2. SAWN OR FORMED CONTRACTION JOINTS AT 3.0m INTERVALS, 25mm DEEP AND 3mm WIDE.
3. FULL DEPTH EXPANSION JOINTS AT 12.0m INTERVALS.
4. LIGHT BROOM FINISH.

Wollondilly Shire Council	DRAWN DATE: 12/01/16	SCALE 1:--- @ A4
STANDARD PATHWAY AND SHARED PATHWAY	APPROVED BY M.NELSON DATE: 01.03.2016	DRAWING NO. WSC.D9.1 SHEET 1 OF 1