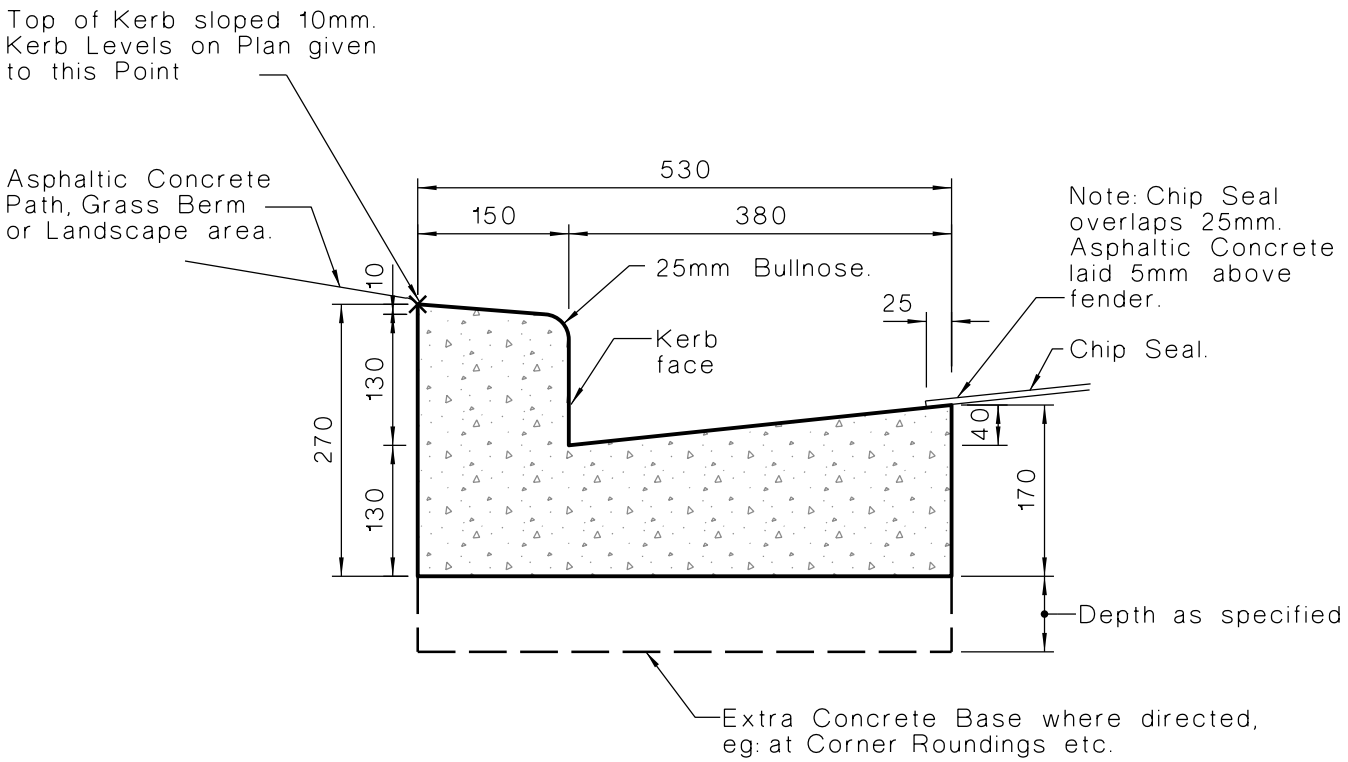
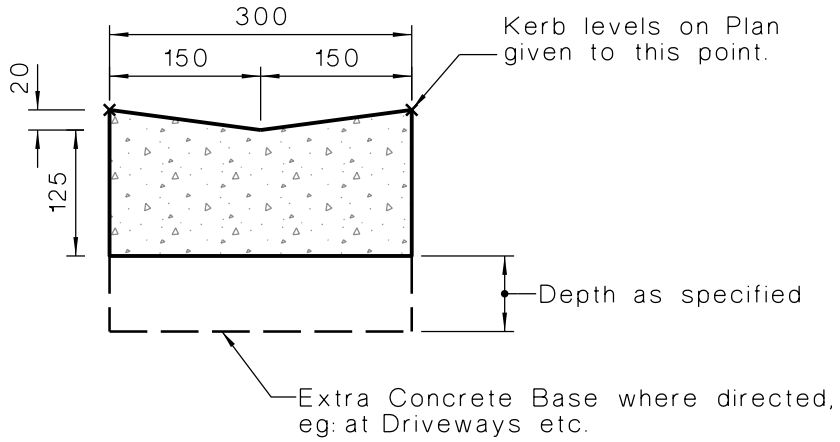
RS060101D



KERB AND FLAT CHANNEL

NOTES:

1. Concrete strength to be 20MPa at 28 days.
2. Concrete Finish to conform with Class U3 of NZS3114.
3. Limits of excavation to be sawcut if path and/or carriageway is not to be reconstructed.



BACK OF PATH AND INTERPATH CHANNEL

Christchurch City Council

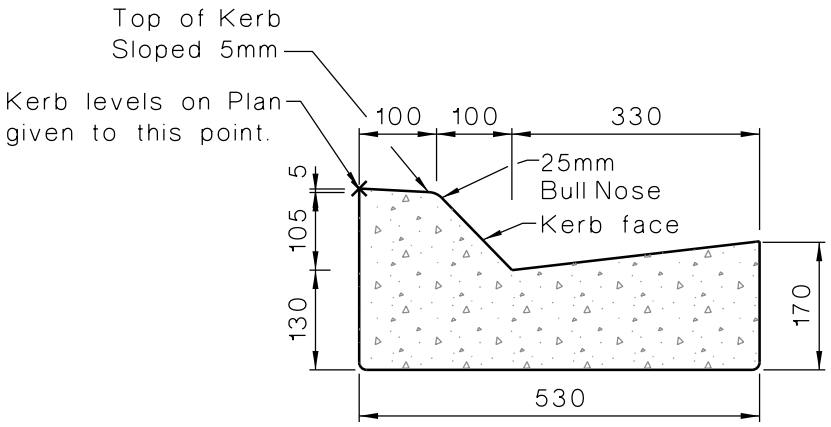
KERB & FLAT CHANNEL AND INTERPATH CHANNEL

ISSUE DATE	NOV 2022

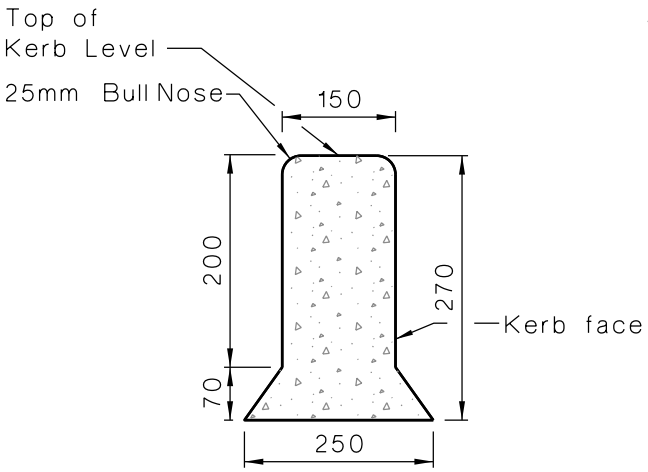
SD601

SHEET 1

RS060201A



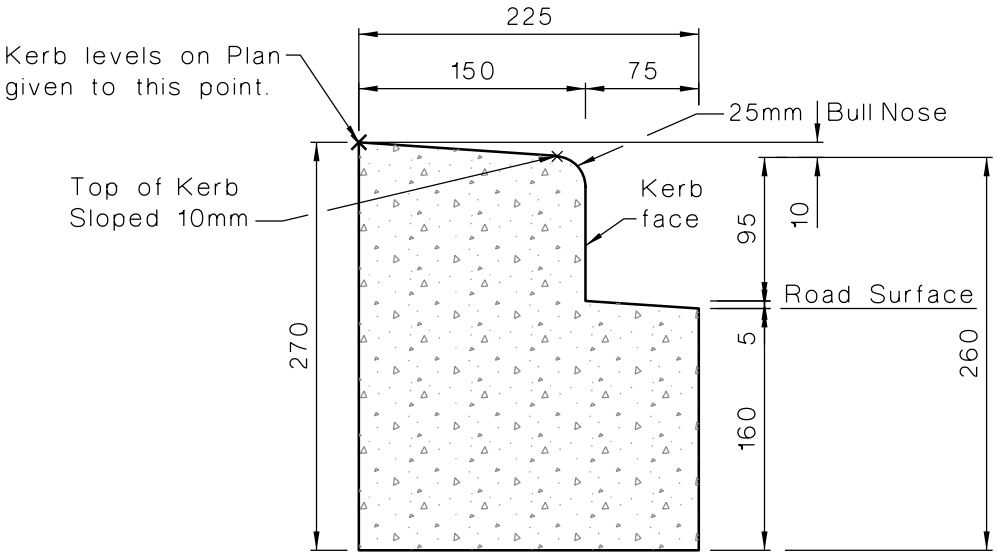
LOW PROFILE KERB AND FLAT CHANNEL



NOTES:

1. Concrete strength to be 20MPa at 28 days.
2. Concrete Finish to conform with Class U3 of NZS3114.
3. Limits of excavation to be sawcut if path and/or carriageway is not to be reconstructed.
4. Kerb entry adaptors shall not to be installed in low profile Kerb & Channel.

KERB ONLY



KERB AND NIB

Christchurch City Council

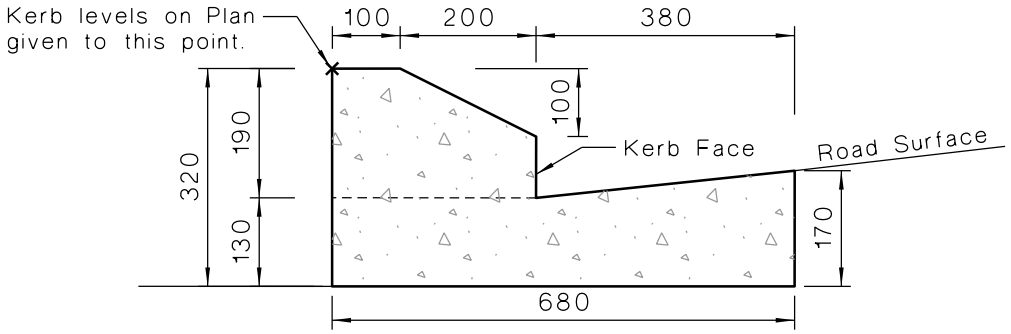
LOW PROFILE KERB & FLAT CHANNEL, KERB ONLY AND KERB & NIB

ISSUE DATE	FEB 2002

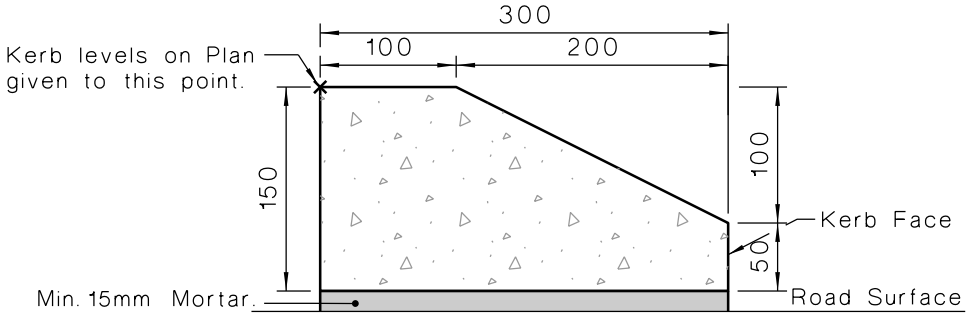
SD602

SHEET 1

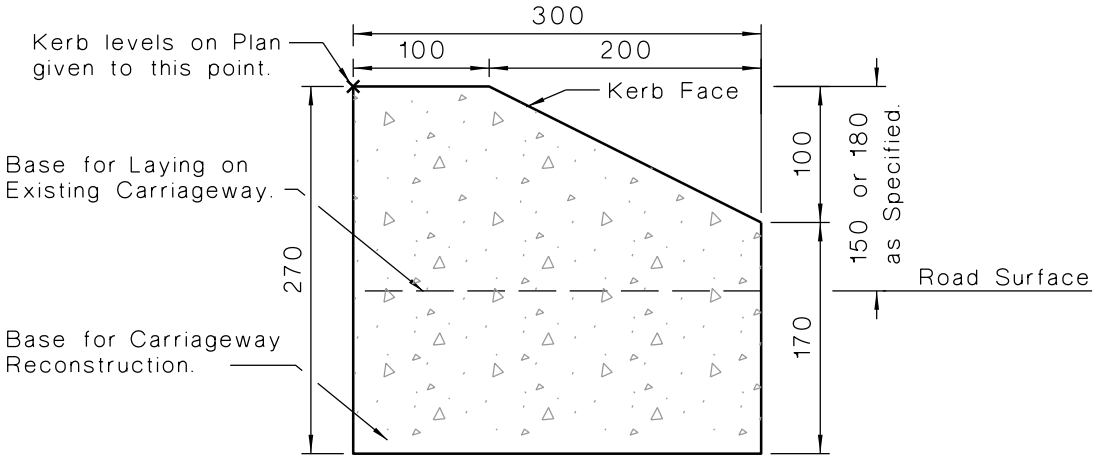
RS060301E



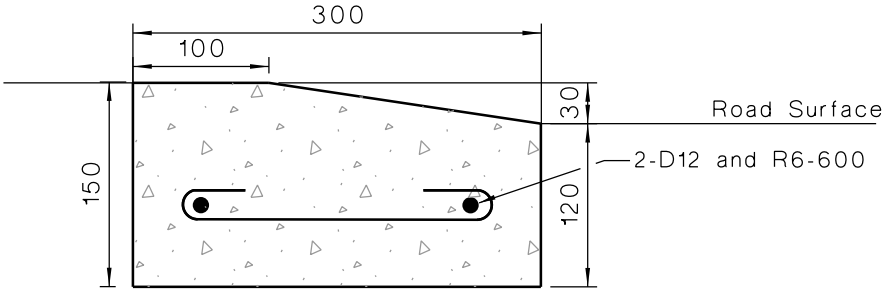
MOUNTABLE MEDIAN KERB AND FLAT CHANNEL



PRECAST MOUNTABLE MEDIAN KERB BLOCKS



IN SITU MOUNTABLE MEDIAN KERB



LOW MOUNTABLE KERB

NOTES:

1. Concrete Strength to be 20MPa at 28 days.
2. Concrete Finish to Conform with Class U3 of NZS3114.
3. Length of Precast Block 600mm.

Christchurch City Council

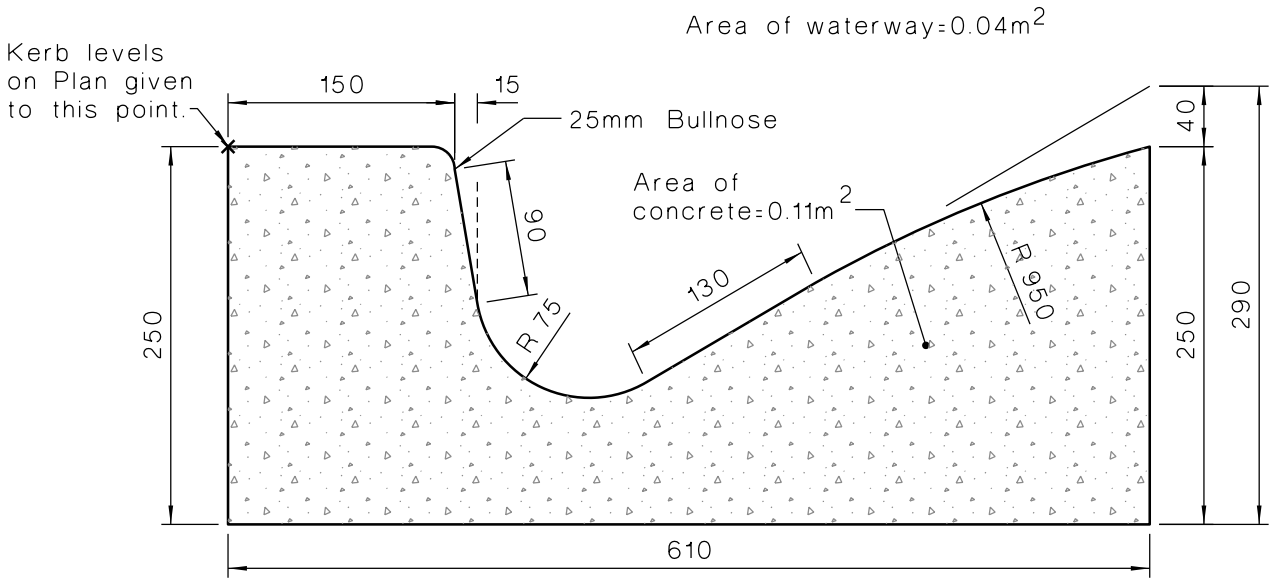
MOUNTABLE MEDIAN KERB & FLAT CHANNEL, MOUNTABLE MEDIAN & LOW MOUNTABLE KERB

ISSUE DATE	MAR 2013

SD603

SHEET 1

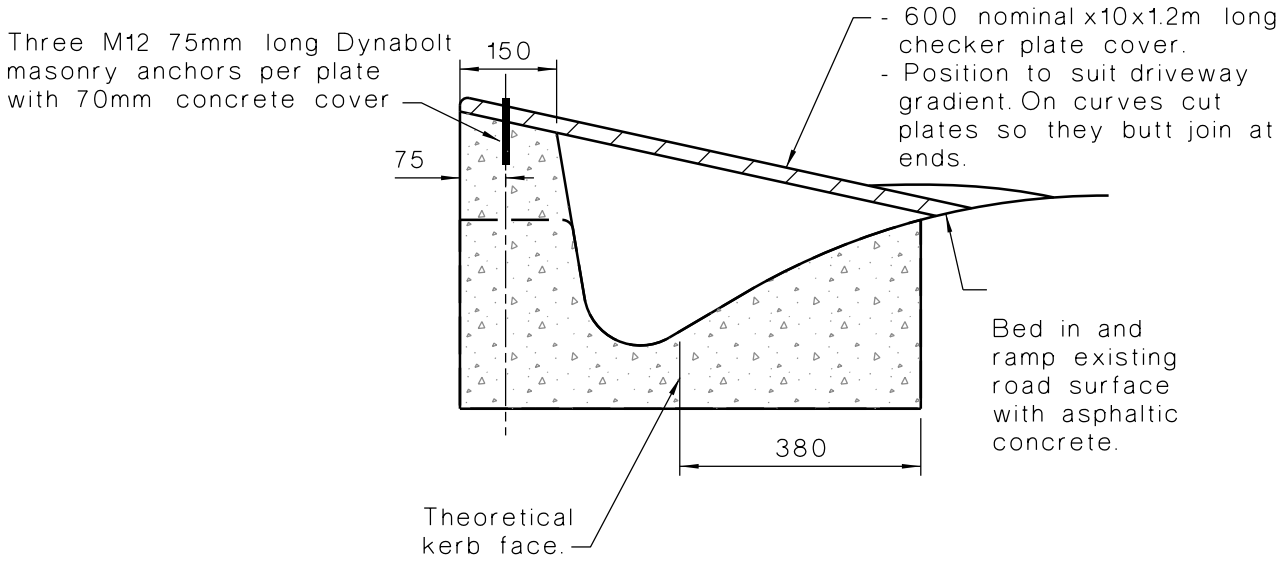
RS060401A



HILLSIDE CHANNEL

NOTES:

1. Concrete strength to be 20MPa at 28 days.
2. Concrete Finish to conform with Class U3 of NZS3114.



VEHICLE CROSSING FOR HILLSIDE CHANNEL

Christchurch City Council

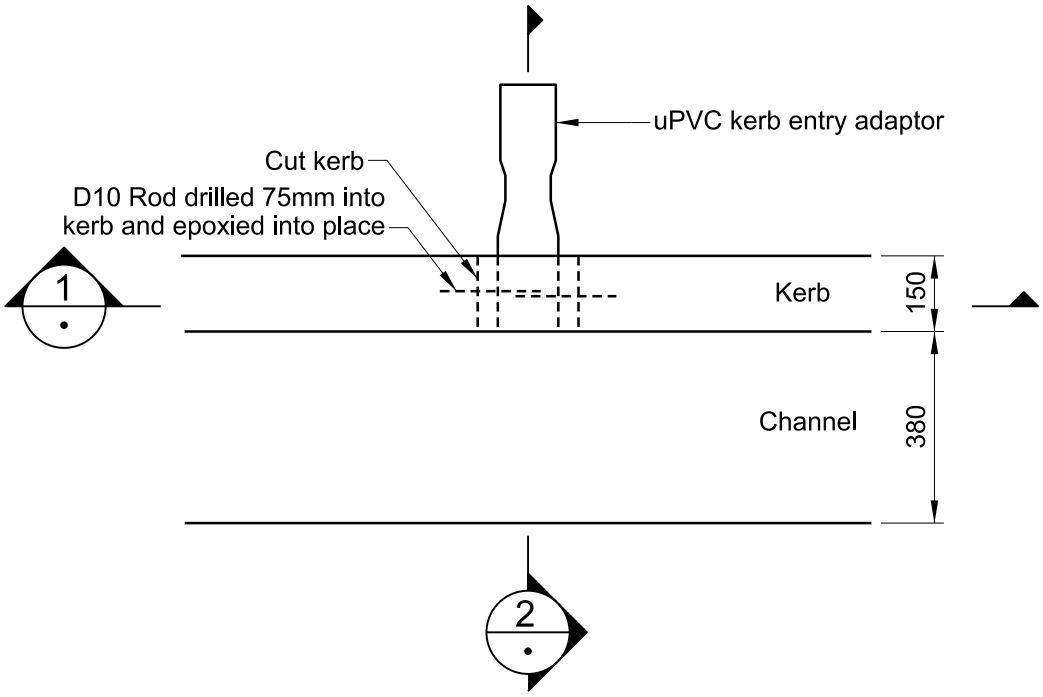
HILLSIDE CHANNEL

ISSUE DATE | FEB 2002

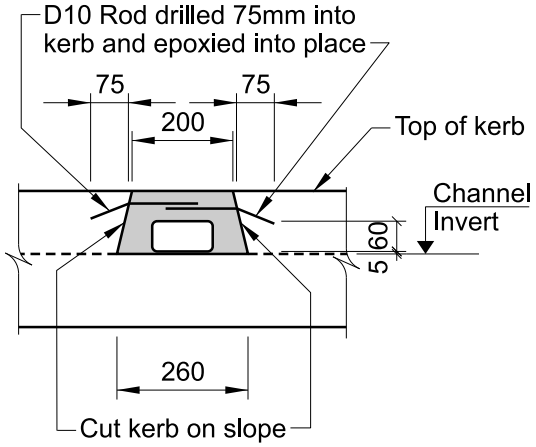
SD604

SHEET 1

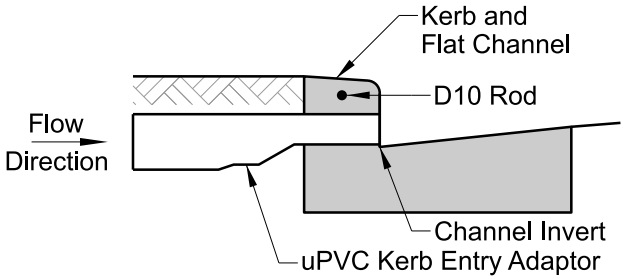
rs160501b.dgn



PLAN



DETAIL 1



DETAIL 2

KERB ENTRY

NOTES:

1. Stormwater Outlets in kerbs to be at 200mm centres minimum.
2. Kerb entry adaptor to be installed in conjunction with the pouring of the kerb and channel.
3. If kerb entry adaptor is installed after concrete has hardened then kerb is to be cut on slope as shown in detail 1 above.

Christchurch City Council

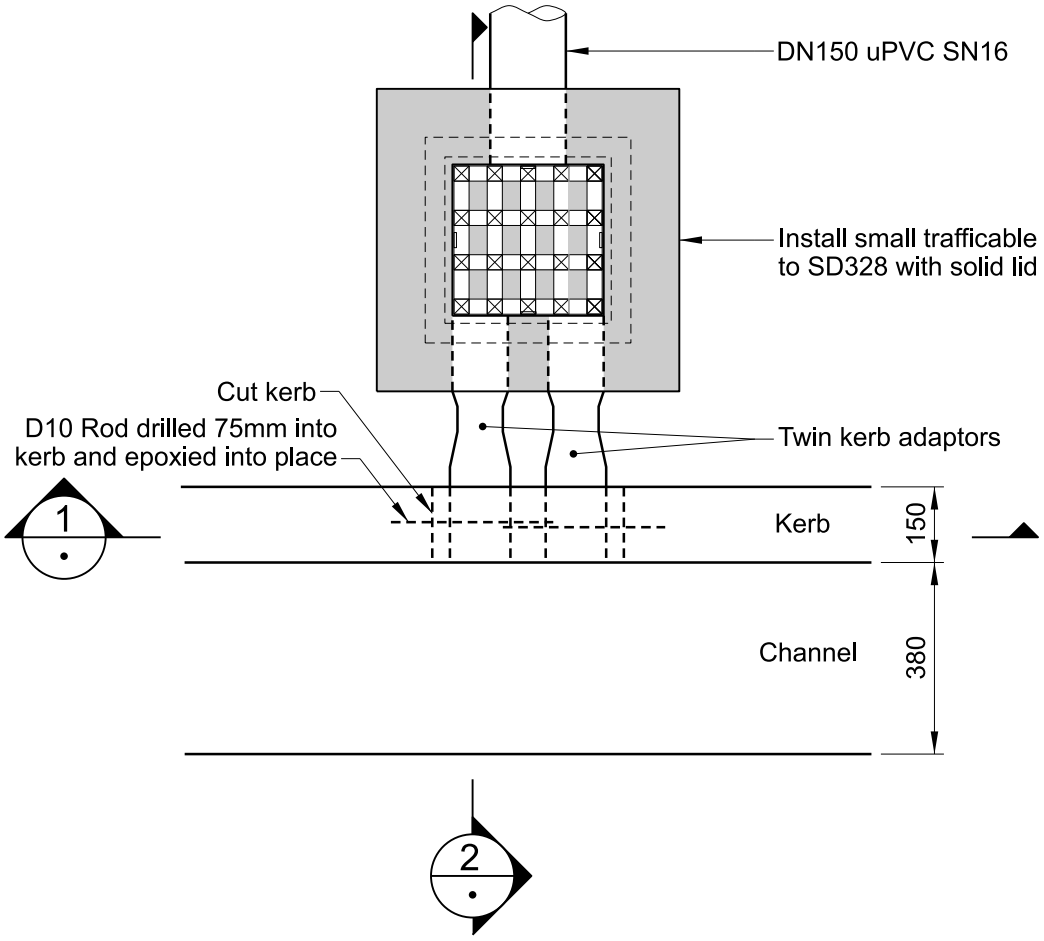
KERB ENTRY

ISSUE DATE NOV 2022

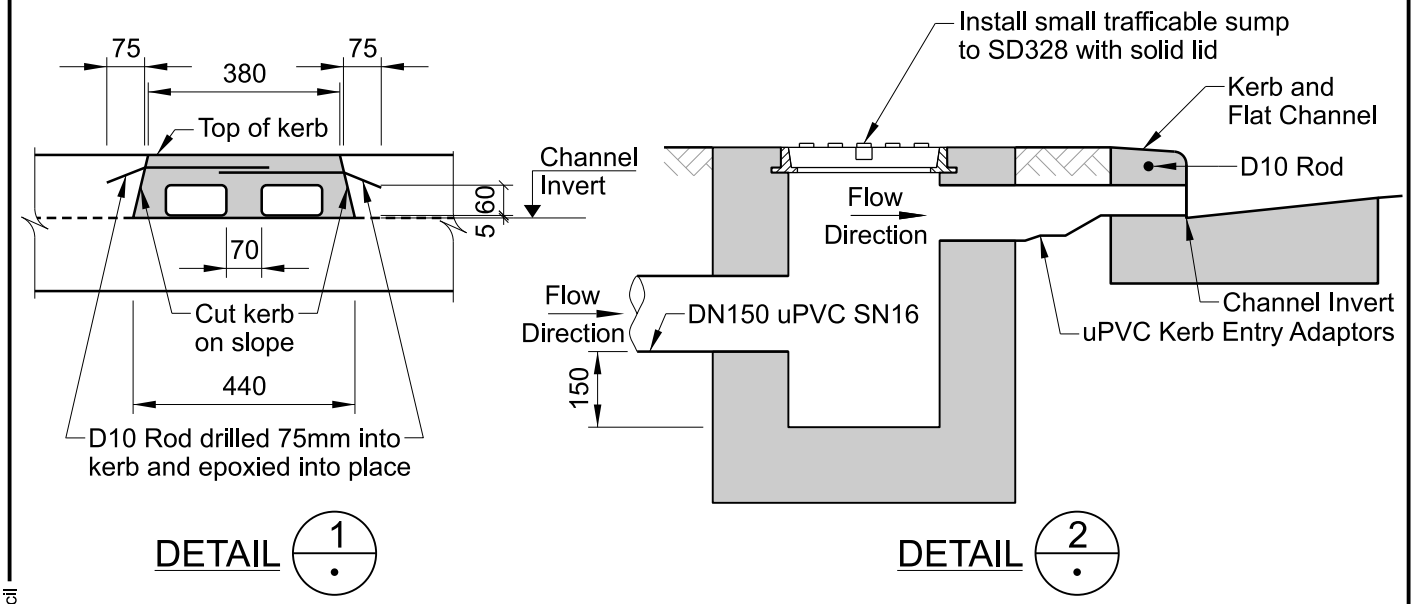
SD605

SHEET 1 OF 2

rs160502a.dgn



PLAN



DETAIL 1 DETAIL 2

KERB ENTRIES

NOTES:

1. If kerb entry adaptor is installed after concrete has hardened then kerb is to be cut on slope as shown in detail 1 above.
2. To be used in conjunction with a 150mm uPVC outlet lateral and Small Trafficable Sump to SD328 with solid lid.

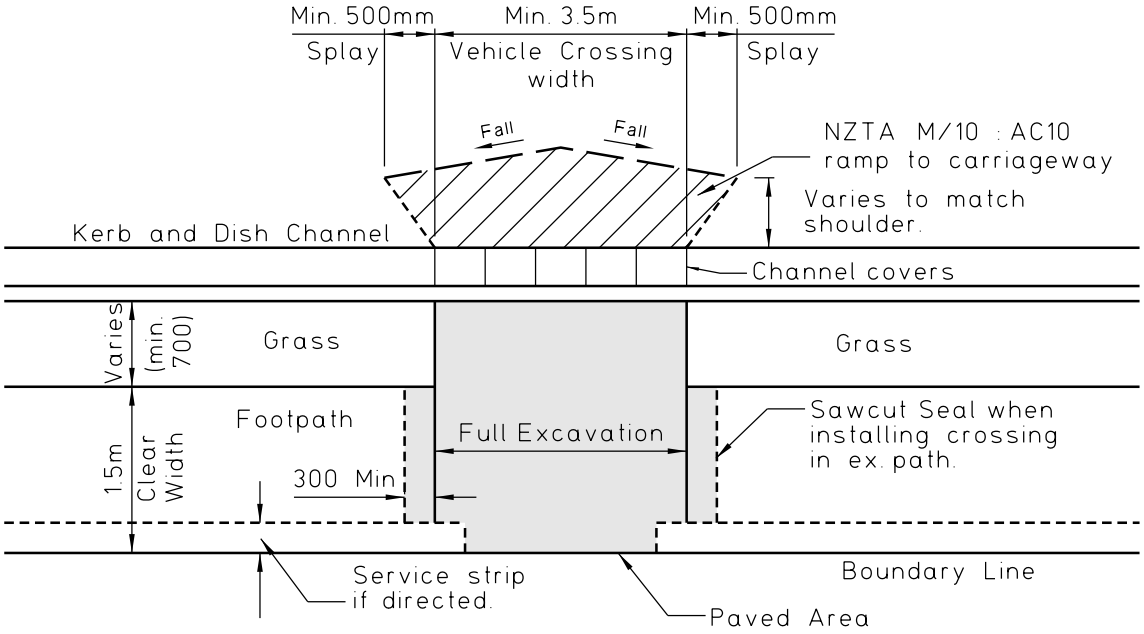
Christchurch City Council

TWIN KERB ENTRY ADAPTOR DETAILS

ISSUE DATE	NOV 2022

SD605

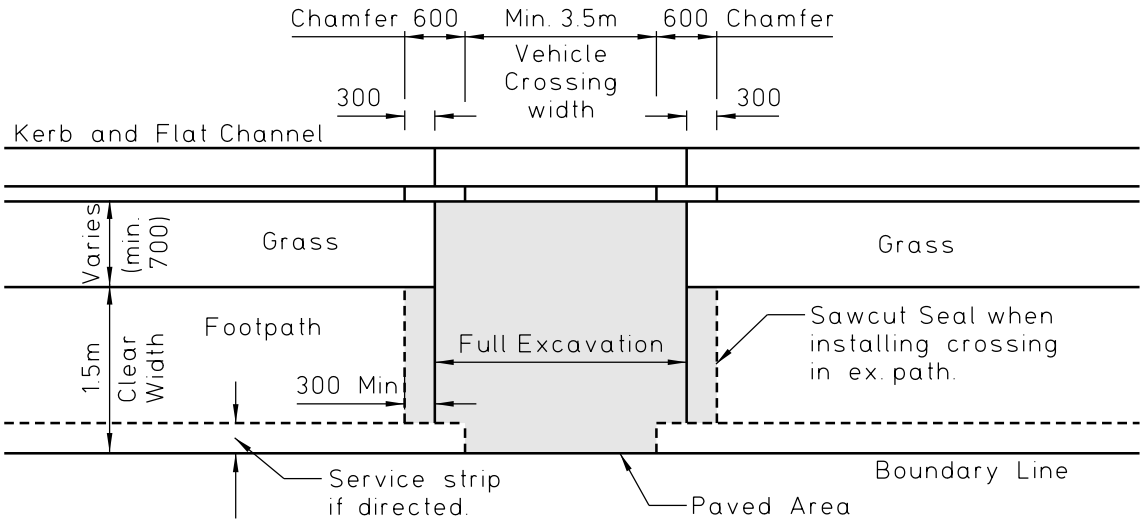
RS060601F



KERB AND DISH CHANNEL

NOTES:

1. Crossing locations and widths to comply with current District Plan.
2. Where two crossings in Kerb & Dish Channel are within 1m of each other they shall be joined to form one continuous crossing and a cleaning opening shall be installed centrally to the crossing.
3. Where two crossings in Kerb & Flat channel are separated by up to 1m of full height kerb, they shall be joined to form one continuous crossing.
4. Minimum residential Vehicle Crossing width to be 3.5m
5. Batten to be laid to top of chamfer when residential crossing is adjacent to landscaping or cobblestones.
6. Kerb entries to be installed no closer than 1.0m from top of chamfer.



KERB AND FLAT CHANNEL

Christchurch City Council

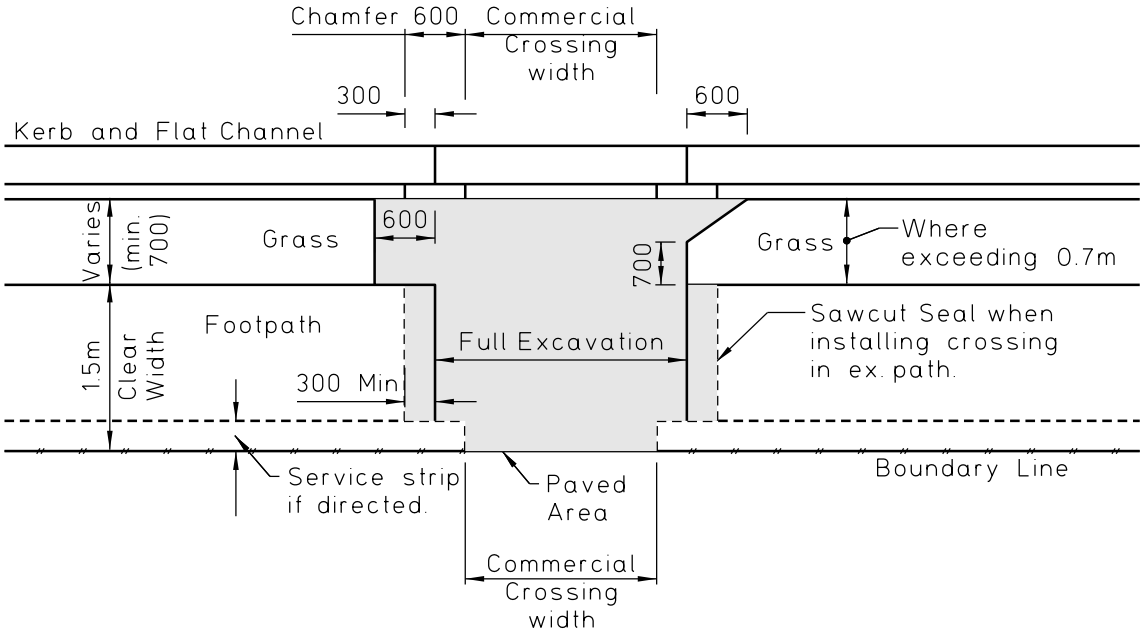
VEHICLE CROSSING & TYPICAL FOOTPATH GEOMETRY

ISSUE DATE	OCT 2016

SD606

SHEET 1 of 2

RS060602A



NOTES:

1. Maximum width of commercial crossing to be 9.0m

Christchurch City Council

COMMERCIAL VEHICLE CROSSING

ISSUE DATE	OCT 2016

SD606

SHEET 2 of 2

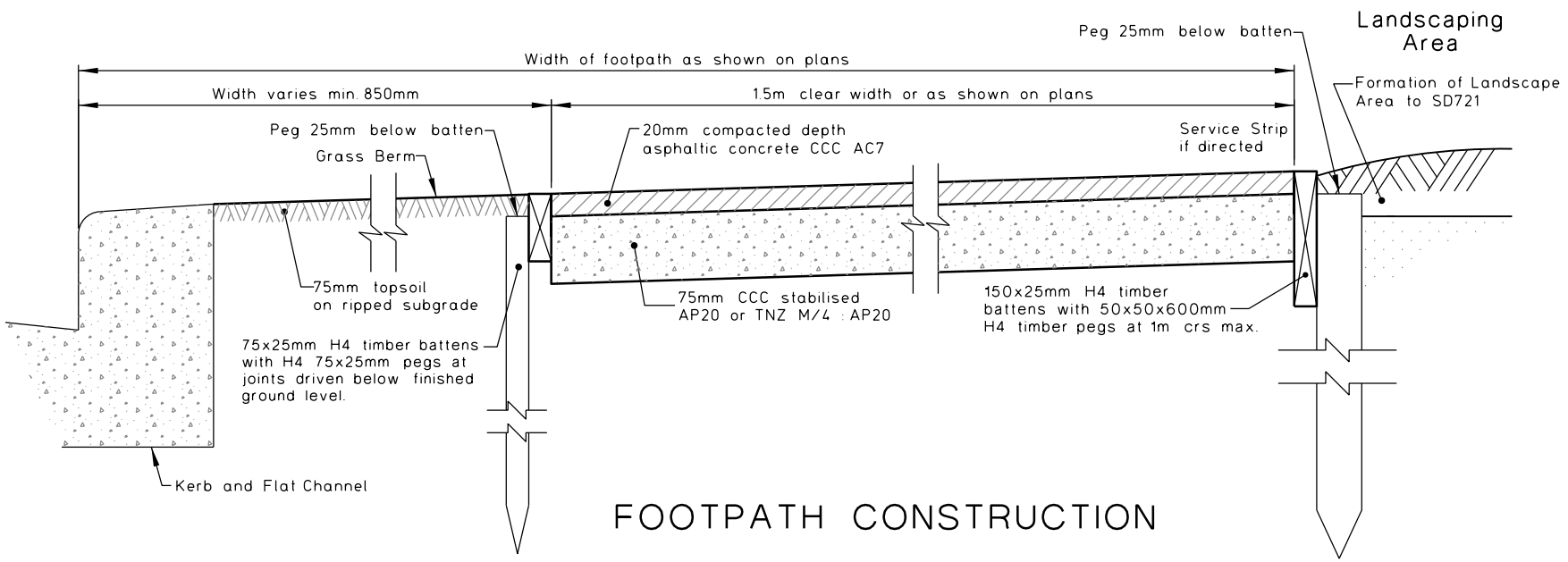
Christchurch City Council

ASPHALTIC CONCRETE FOOTPATH & VEHICLE CROSSING CONSTRUCTION

SD607

ISSUE DATE NOV 2022

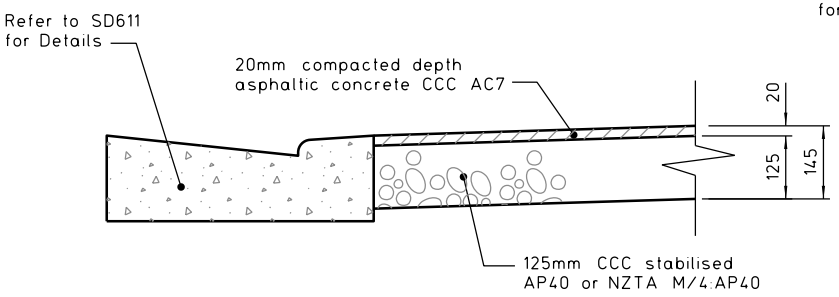
SHEET 1



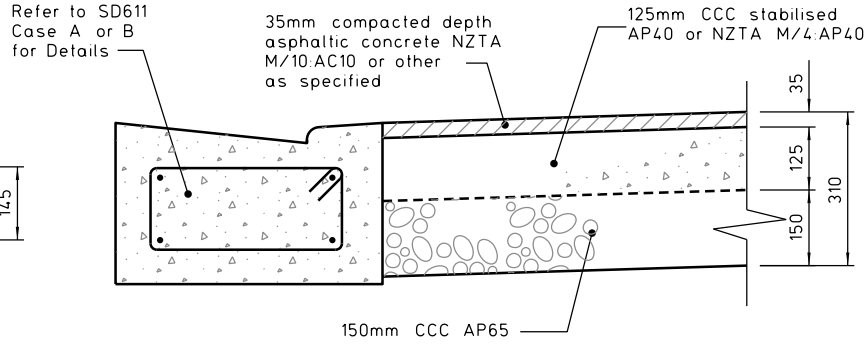
FOOTPATH CONSTRUCTION

NOTES:

1. Crossfall to be nominally 2.0% (min 1.25%, max 3.0%) or as shown on the plans.
2. Battens not required where metalcourse contained by concrete kerbs or concrete foundations.
3. Battens retaining rights of way and commercial crossings to be 90 x 40mm H4 timber battens with H4 90 x 40mm pegs.
4. Subgrade and metal course to be treated with soil sterilant.
5. Existing sealed paths and drives to be sawcut at limits of new paths.
6. Crossings that provide access to 10 or more residential units / dwellings shall be constructed as a commercial crossing.



RESIDENTIAL CROSSING



COMMERCIAL CROSSING

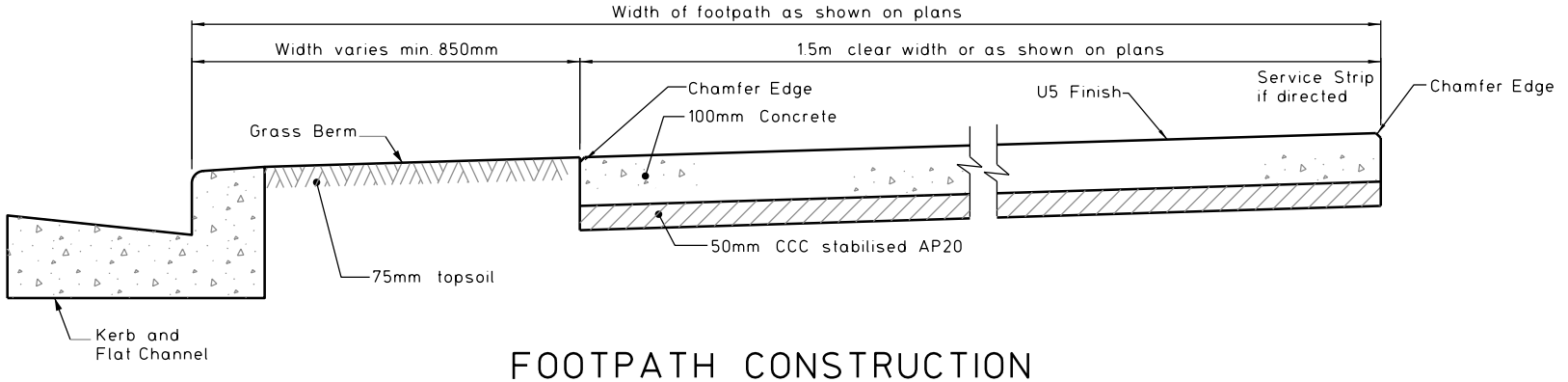
Christchurch City Council

CONCRETE FOOTPATH & VEHICLE CROSSING CONSTRUCTION

SD608

ISSUE DATE: APR 2014

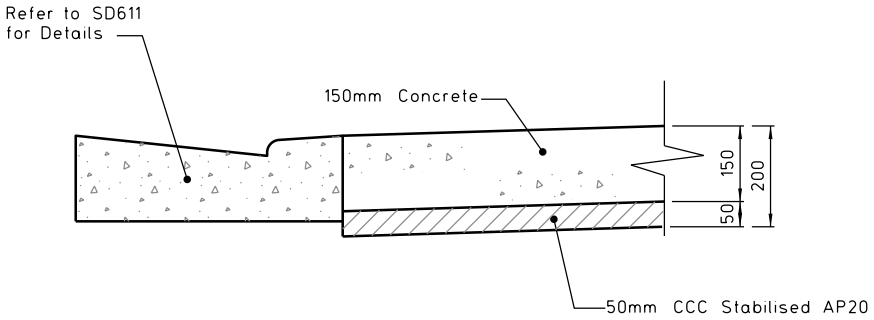
SHEET 1



FOOTPATH CONSTRUCTION

NOTES:

1. Crossfall to be nominally 2.0% (min 1.25%, max 3.0%) or as shown on the plans.
2. Existing sealed paths and drives to be sawcut at limits of new paths.
3. Construction Joints to be formed at maximum 3.0m centres.
4. All formwork to be removed.
5. Commercial crossings require site specific engineering design.

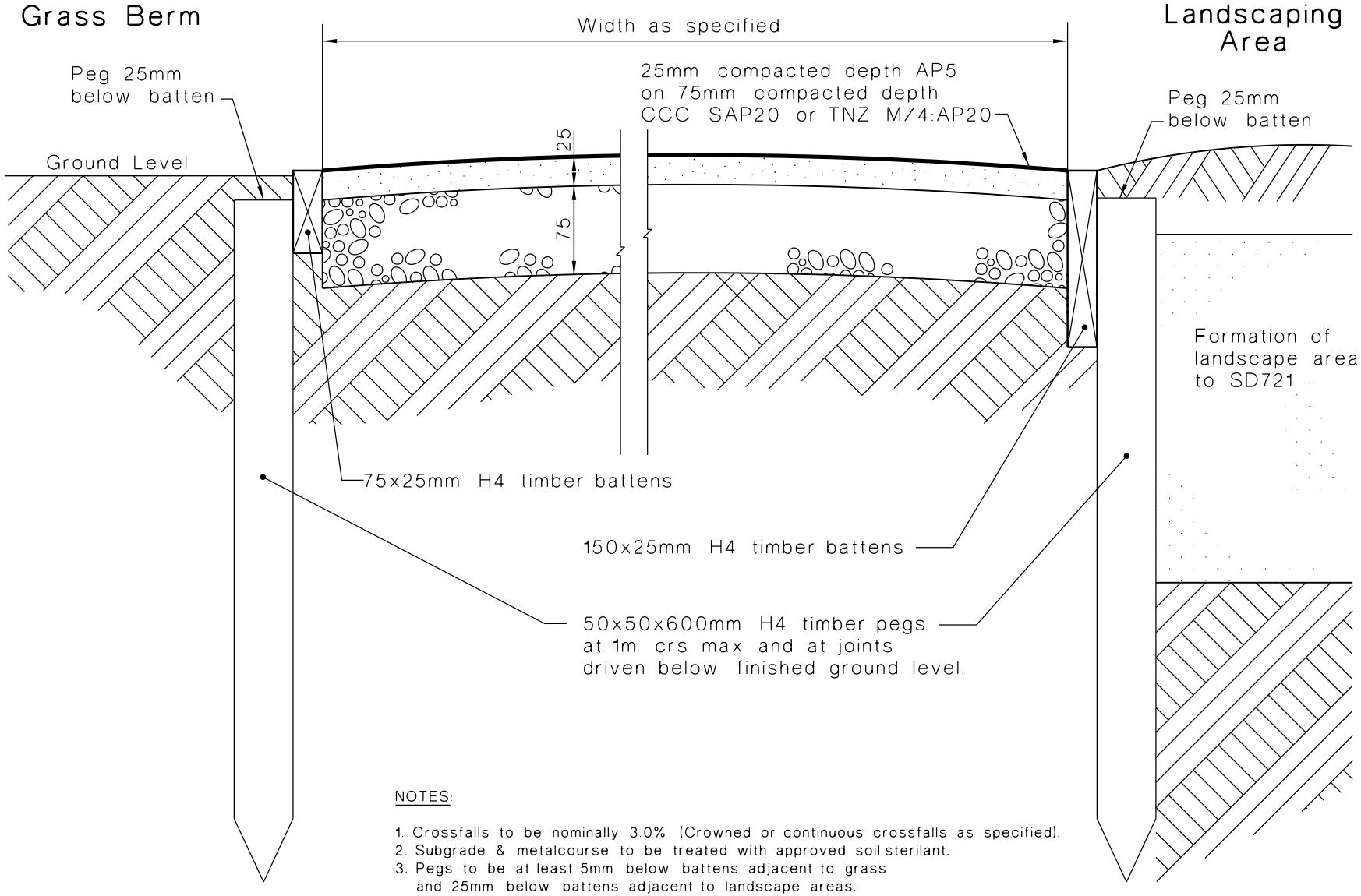


RESIDENTIAL CROSSING

RS060801D

Christchurch City Council

GRITTED FOOTPATH CONSTRUCTION



NOTES:

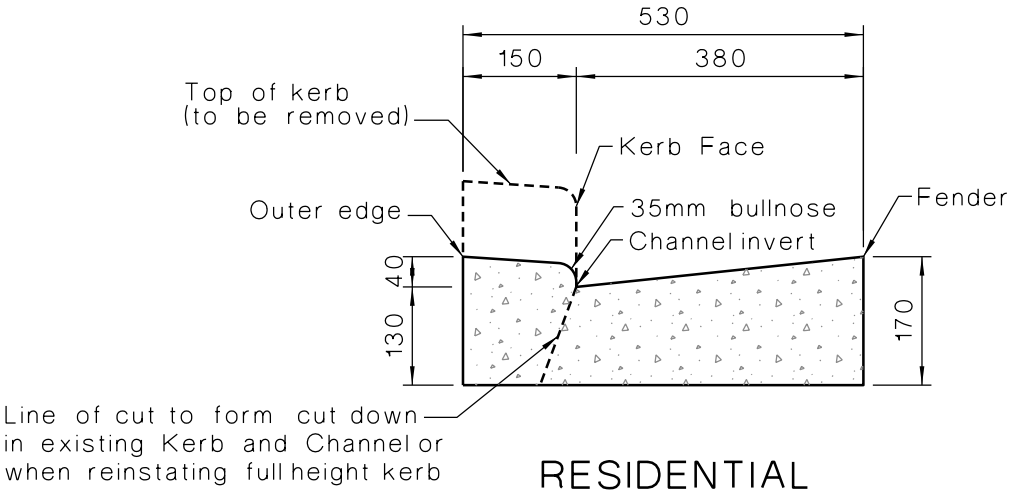
1. Crossfalls to be nominally 3.0% (Crowned or continuous crossfalls as specified).
2. Subgrade & metalcourse to be treated with approved soil sterilant.
3. Pegs to be at least 5mm below battens adjacent to grass and 25mm below battens adjacent to landscape areas.

SD609

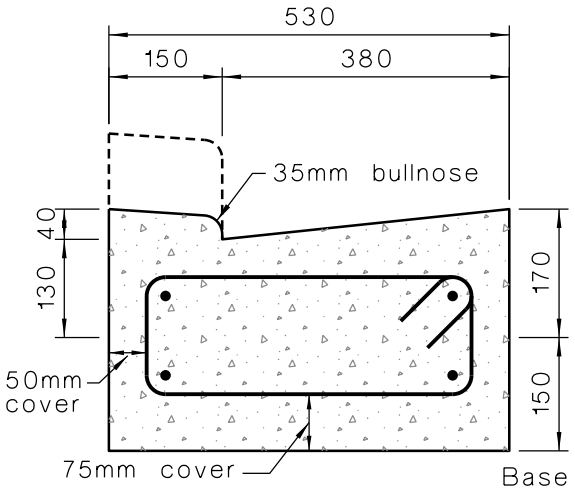
ISSUE DATE MAR 2013

SHEET 1

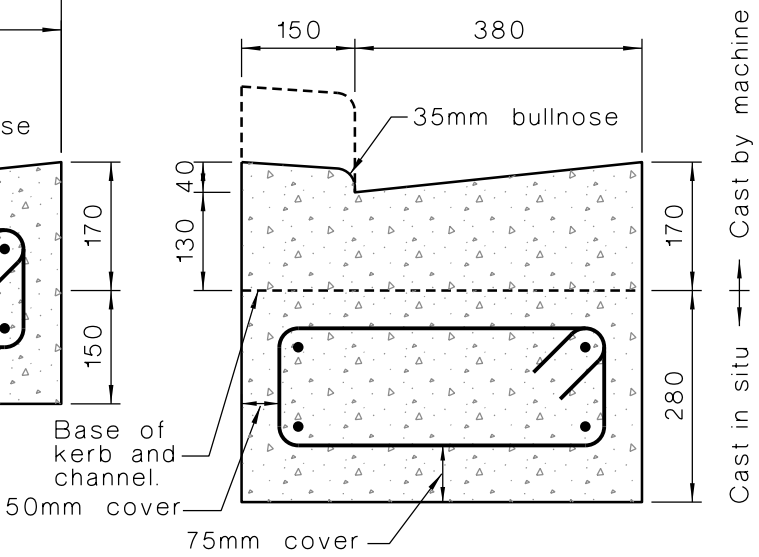
RS061101C



RESIDENTIAL



CASE A
for cast in situ channel

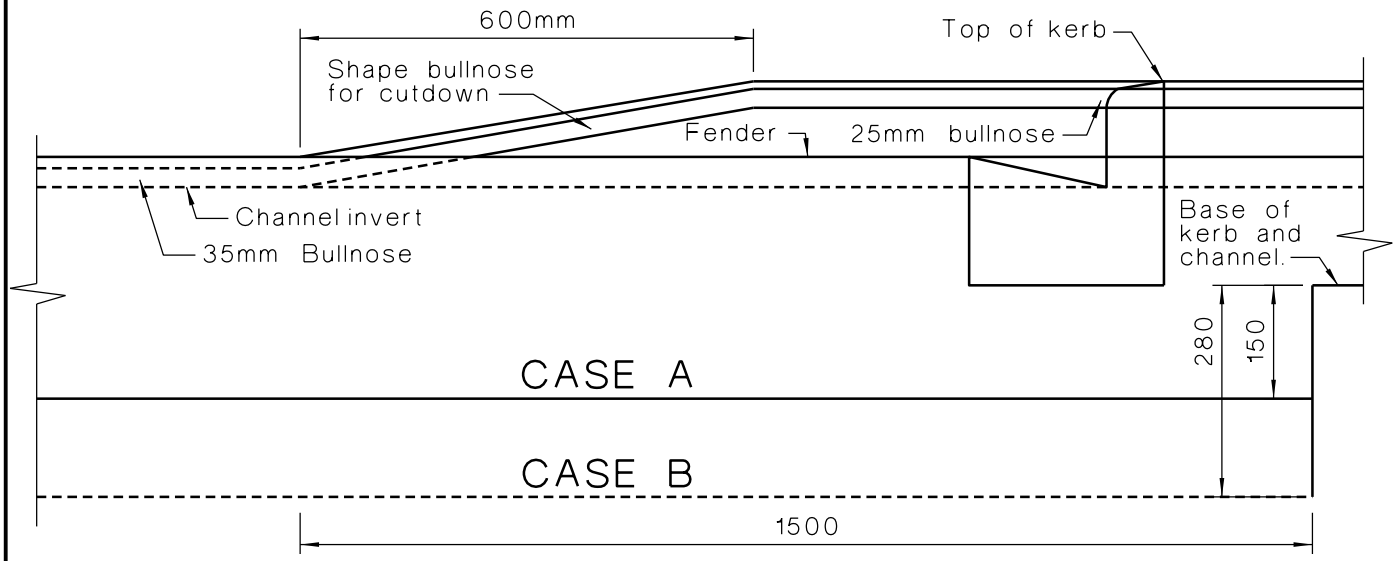


CASE B
for extrusion machine type channel

COMMERCIAL

NOTES:

1. Reinforcement 4-D12 and R6-600
2. Reinforcement beam to extend 1.5m from base of cutdown at each end.
3. Concrete to be 20MPa at 28 days.
4. Concrete finish on exposed faces to conform with Class U3 of NZS3114.



Christchurch City Council

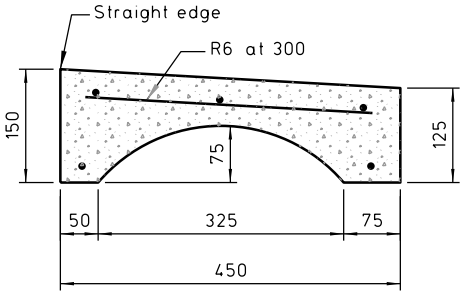
VEHICLE CROSSINGS (CUTDOWN KERB)

ISSUE DATE | MAR 2013

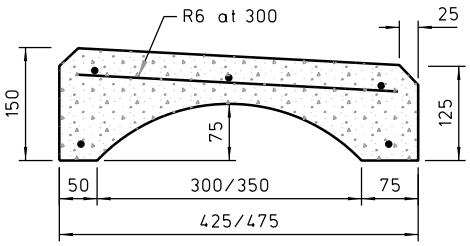
SD611

SHEET 1

RS061201D



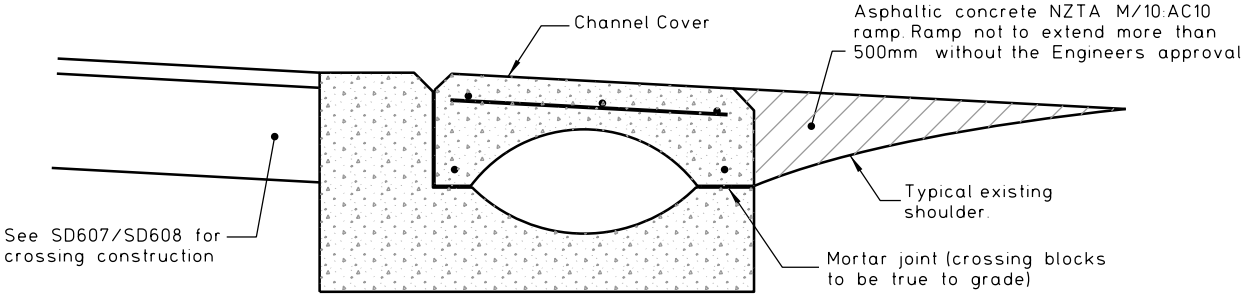
TYPE A



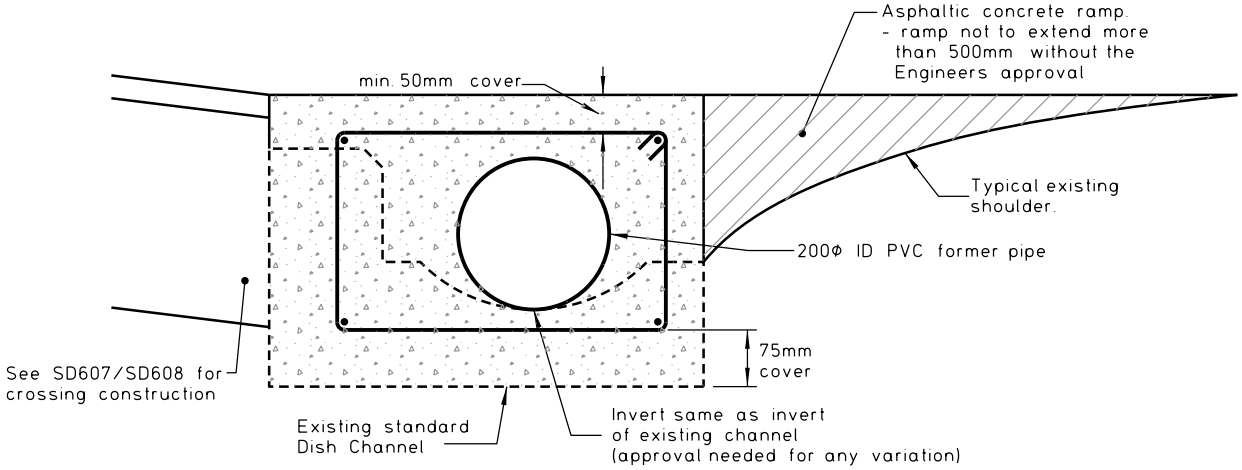
TYPE B

NOTES:
1. All concrete 35 MPa.
2. 5-D12 reinforcing bars and 2-R6 at 300.

STANDARD PRECAST CHANNEL COVERS
475mm x 500mm, 450mm x 500mm & 425mm x 500mm



RESIDENTIAL



NOTES:
1. All concrete 20 MPa at 28 days.
2. Reinforcement 4-D12 R6-600
3. NZTA M/10:AC10 is an acceptable alternative surfacing for the vehicle crossing.
4. Refer to SD606 for ramp dimensions.

COMMERCIAL

Christchurch City Council

DISH CHANNEL VEHICLE CROSSINGS

ISSUE DATE	OCT 2016

SD612

SHEET 1

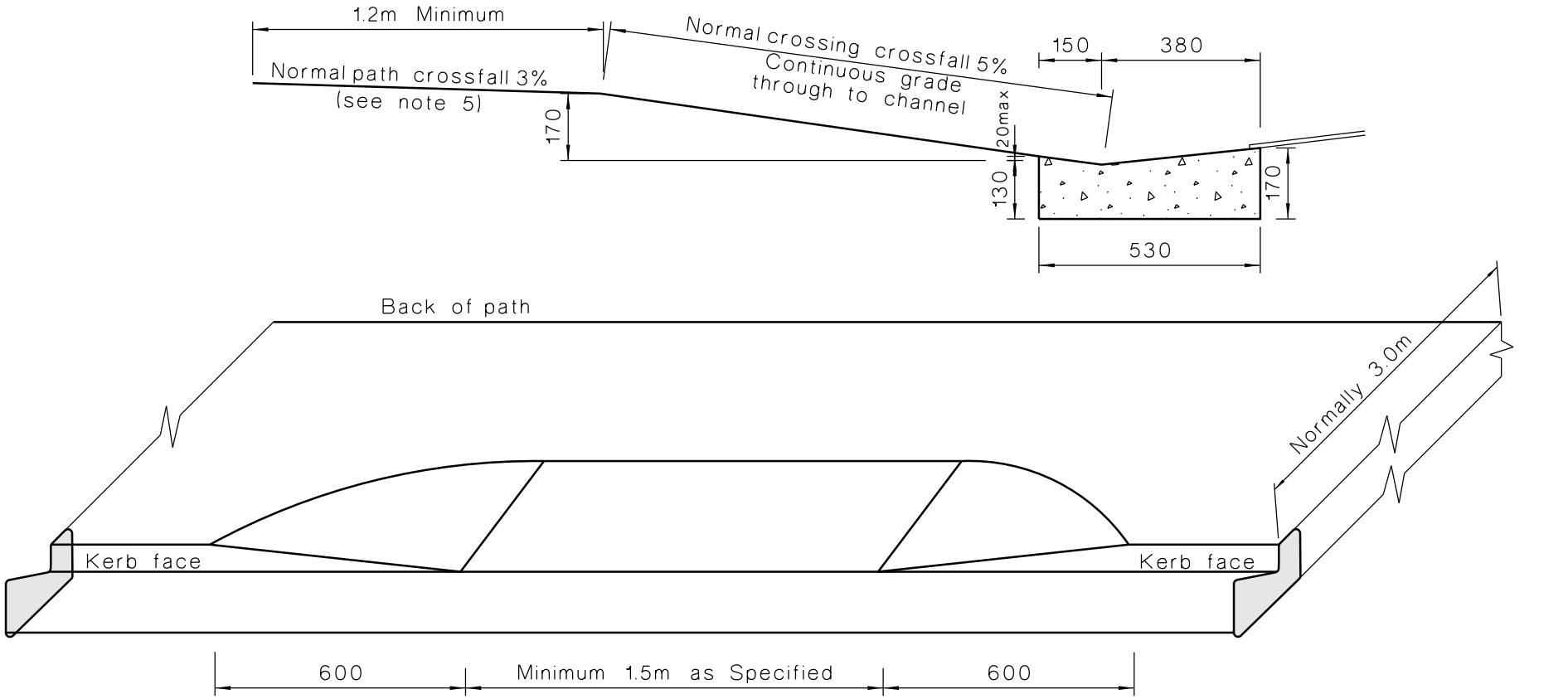
Christchurch City Council

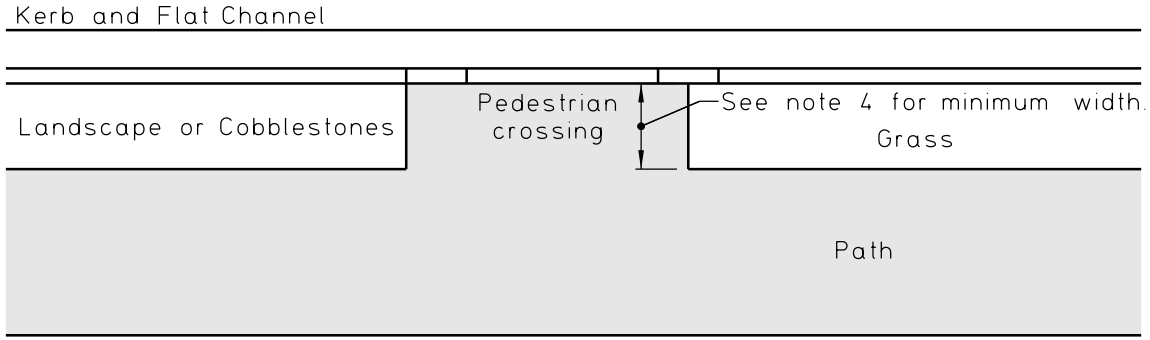
PEDESTRIAN AND CYCLEWAY CUTDOWN

SD613

SHEET 1

ISSUE DATE APR 2014





NOTE:

1. To be used for all pedestrian & cycle cutdowns.
2. Maximum gradient to be 8% in crossing area only.
3. Provide a holding rail to SD635/2 Detail C when utilising the maximum gradient.
4. Minimum width 700mm if berm or 1.5m if landscape.
5. Maintain normal crossfall over path length adjacent to crossing.

BATTEN LOCATION AT KERB

RD061301C

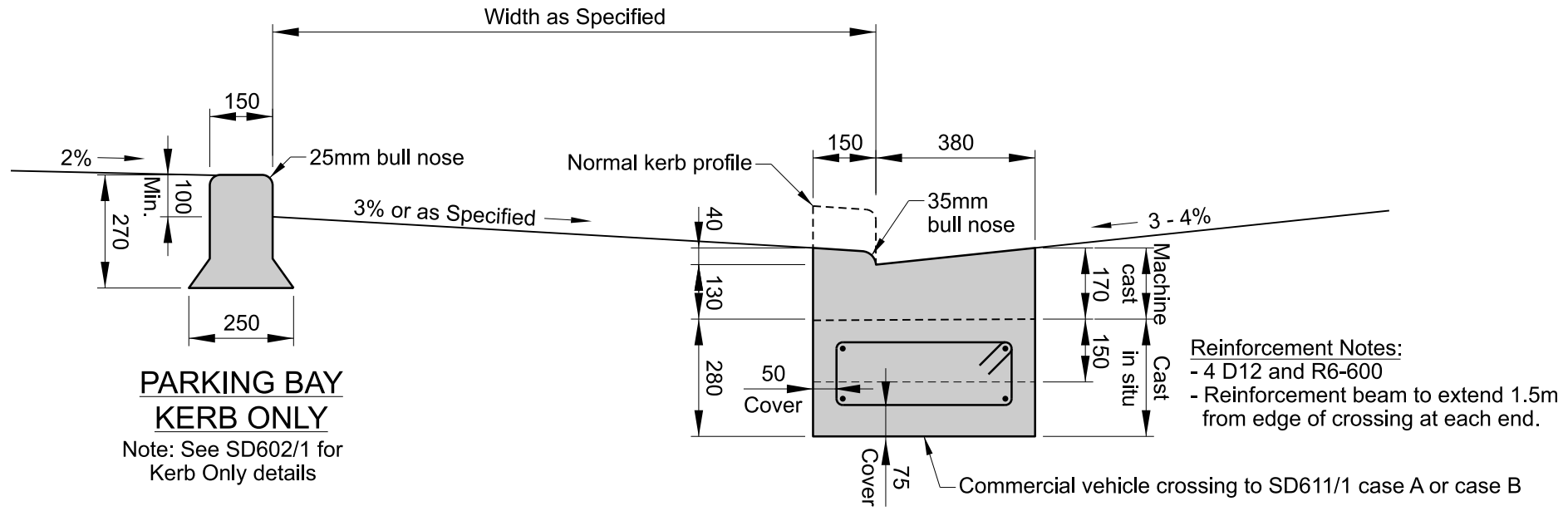
Christchurch City Council

BUS OR PARKING BAYS

SD614

ISSUE DATE NOV 2022

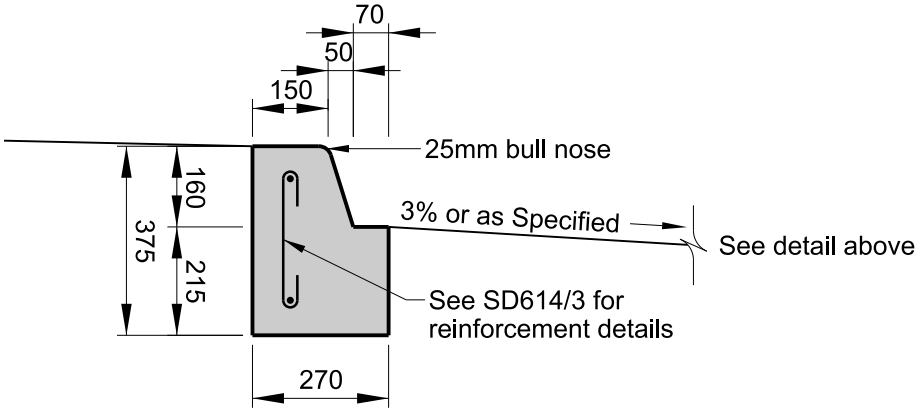
SHEET 1 OF 3



PARKING BAY KERB ONLY

Note: See SD602/1 for Kerb Only details

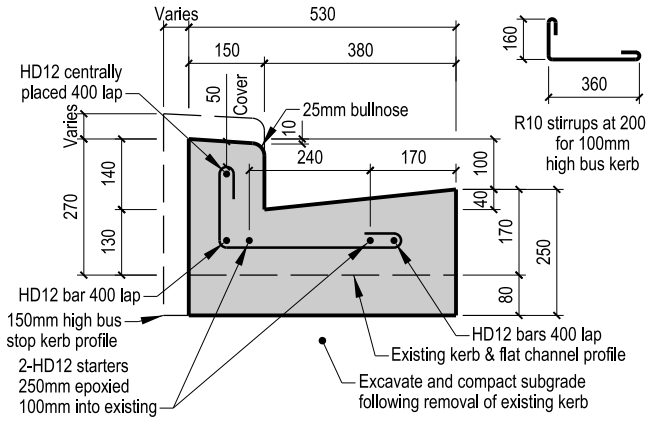
Reinforcement Notes:
- 4 D12 and R6-600
- Reinforcement beam to extend 1.5m from edge of crossing at each end.



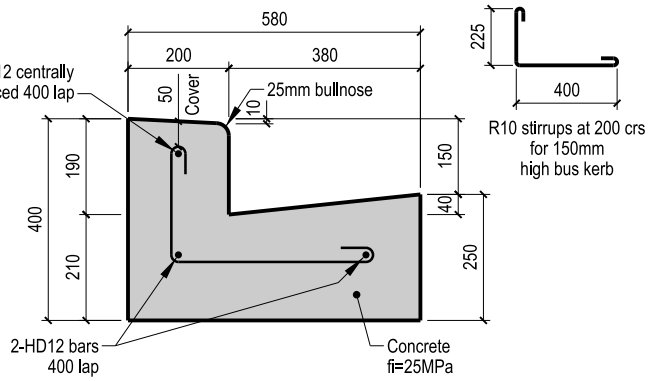
BUS BAY NIB KERB

Note: See SD614/3 for Bus Stop Nib Kerb details

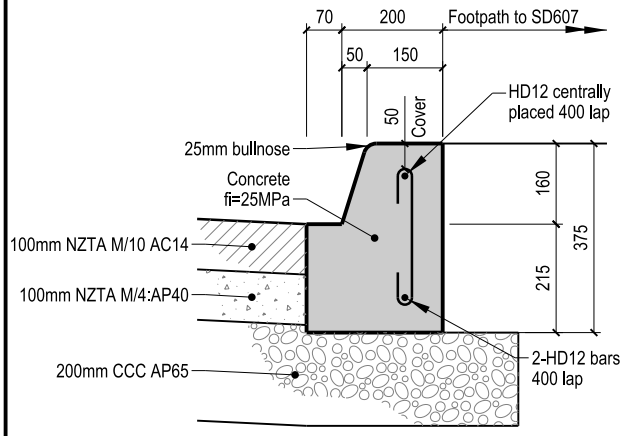
rs1614402a.dgn



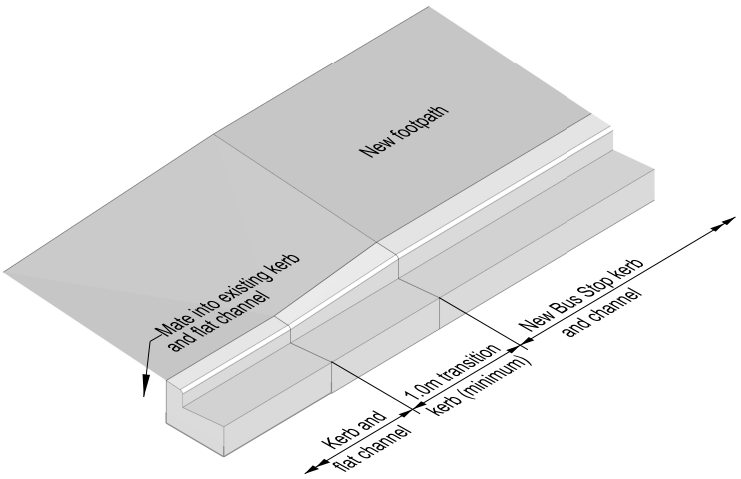
100mm HIGH BUS STOP KERB SECTION 1



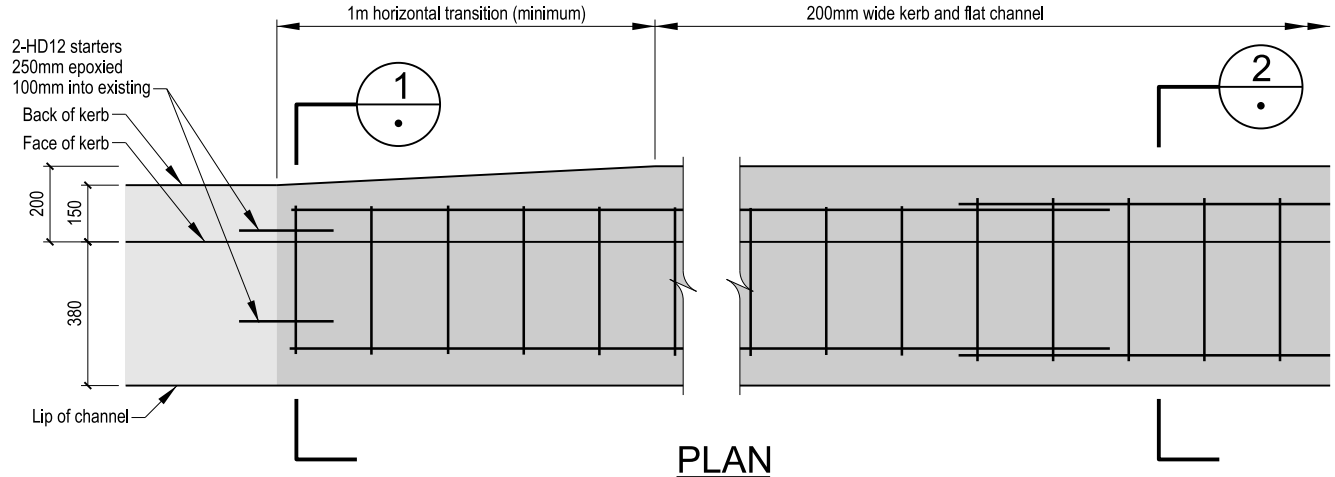
150mm HIGH BUS STOP KERB SECTION 2



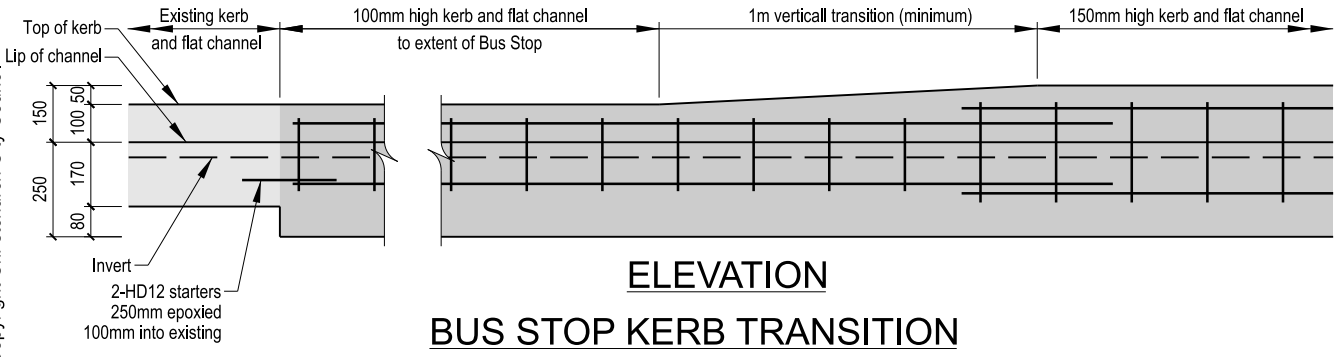
BUS STOP NIB KERB



BUS STOP KERB PICTORIAL VIEW



PLAN



ELEVATION

BUS STOP KERB TRANSITION

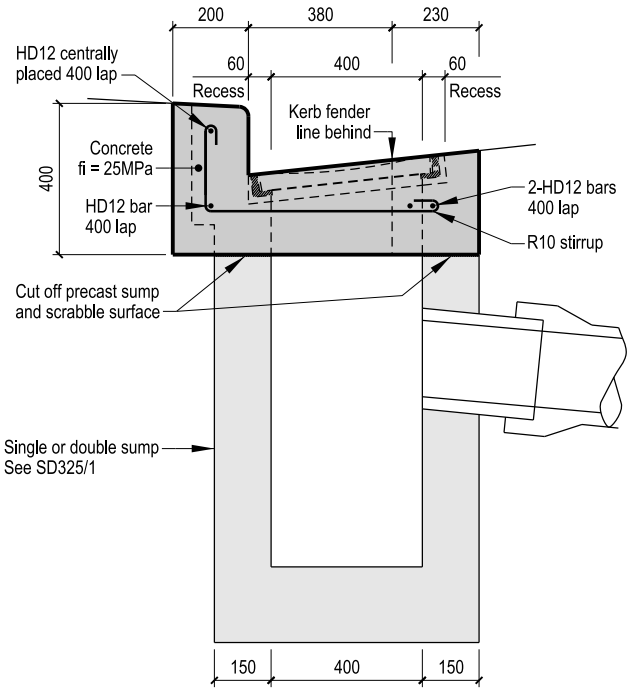
Christchurch City Council

BUS STOP RAISED KERB

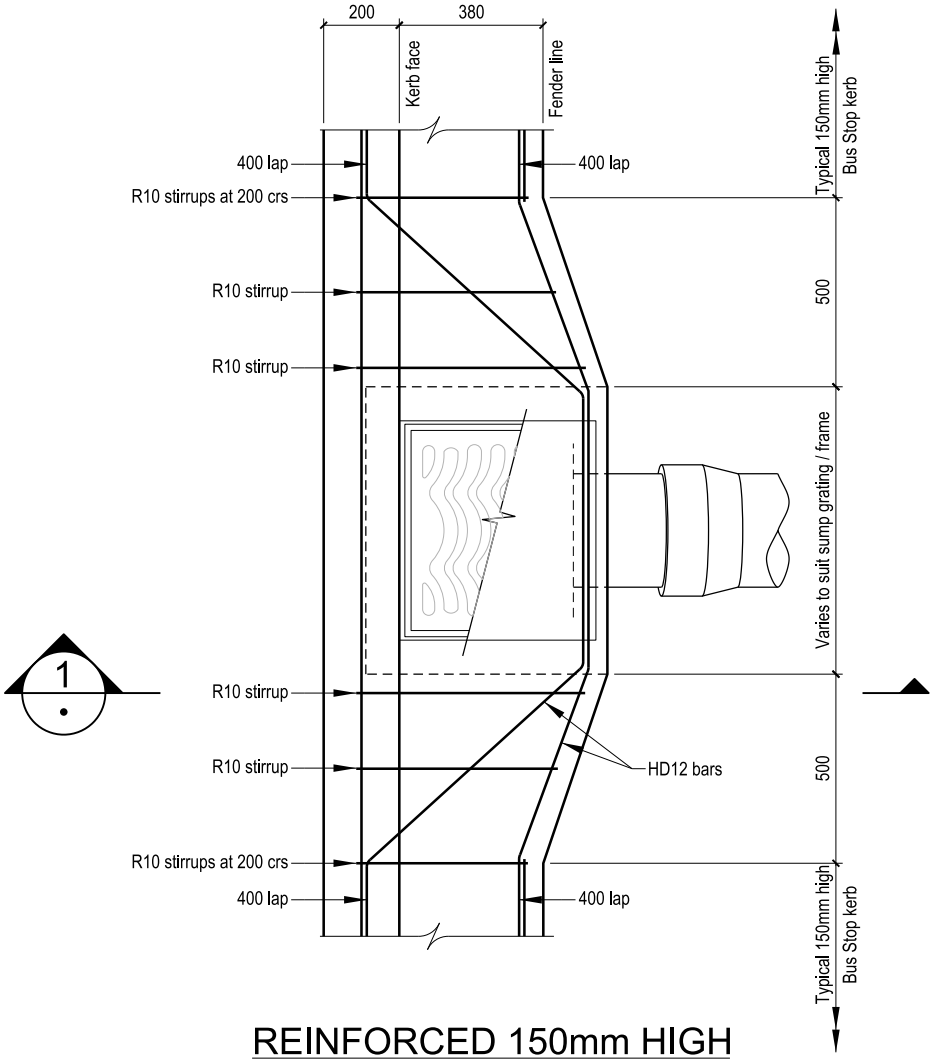
ISSUE DATE	NOV 2022

SD614

SHEET 2 OF 3



SECTION 1/•



REINFORCED 150mm HIGH KERB AND CHANNEL AT SUMPS

NOTES:

1) See SD614/2 for 150mm high kerb details.

rs161403a.dgn

Christchurch City Council

BUS STOP KERB AND CHANNEL REINFORCEMENT AT SUMPS

ISSUE DATE	NOV 2022

SD614

SHEET 3 OF 3

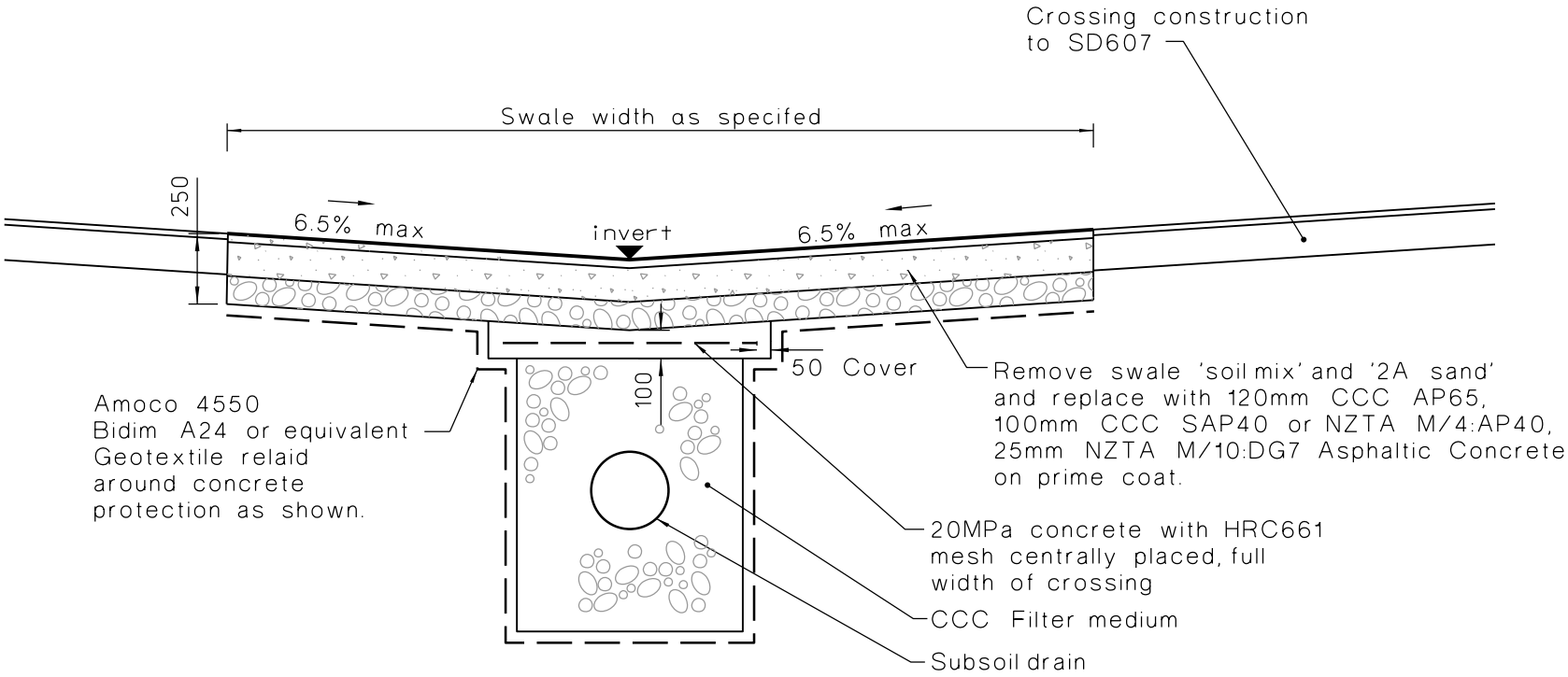
Christchurch City Council

RESIDENTIAL VEHICLE CROSSING THROUGH SWALE

SD615

ISSUE DATE: OCT 2016

SHEET 1

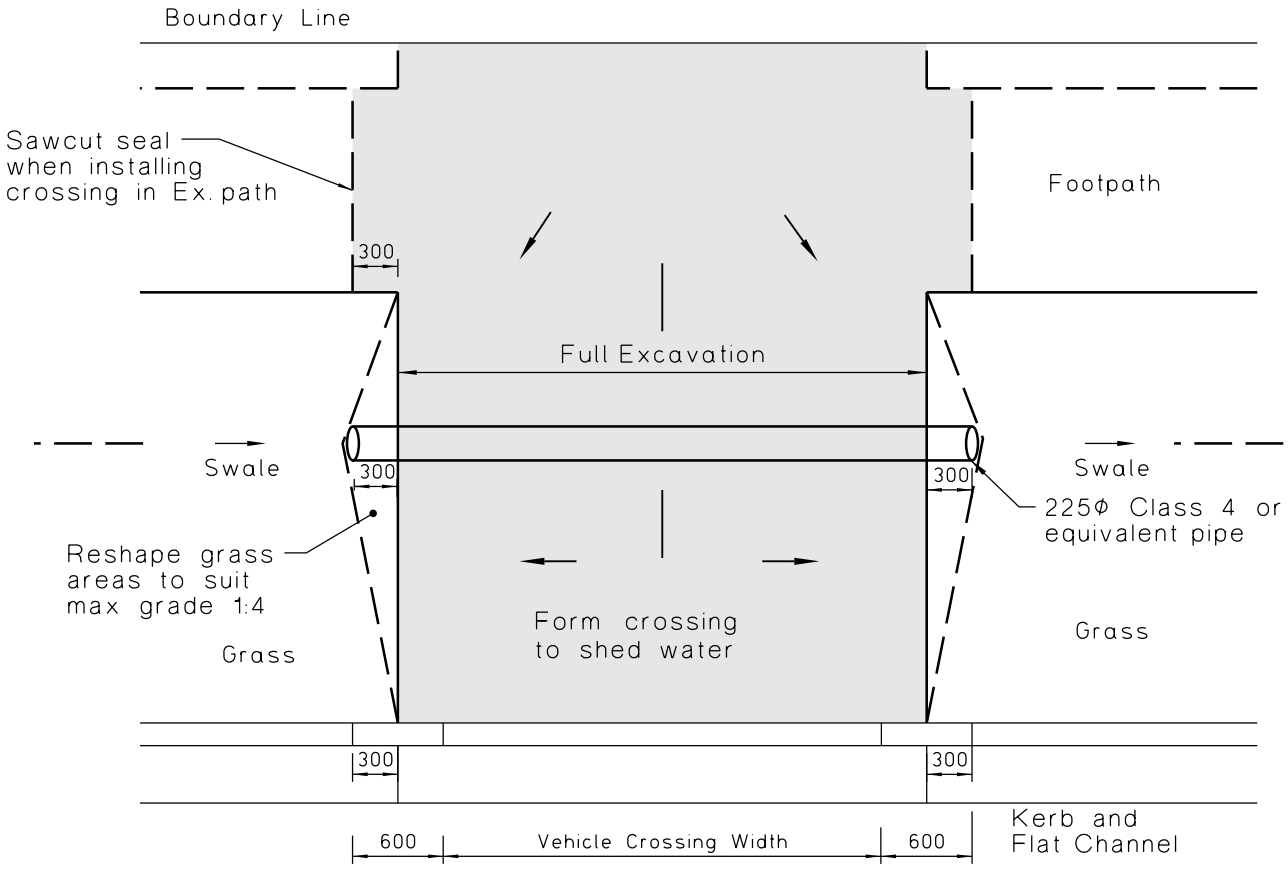


NOTES:

1. Cross sectional area of swale crossing to equal specified area of swale.
2. Invert of swale must not change from specified.

RS061501A

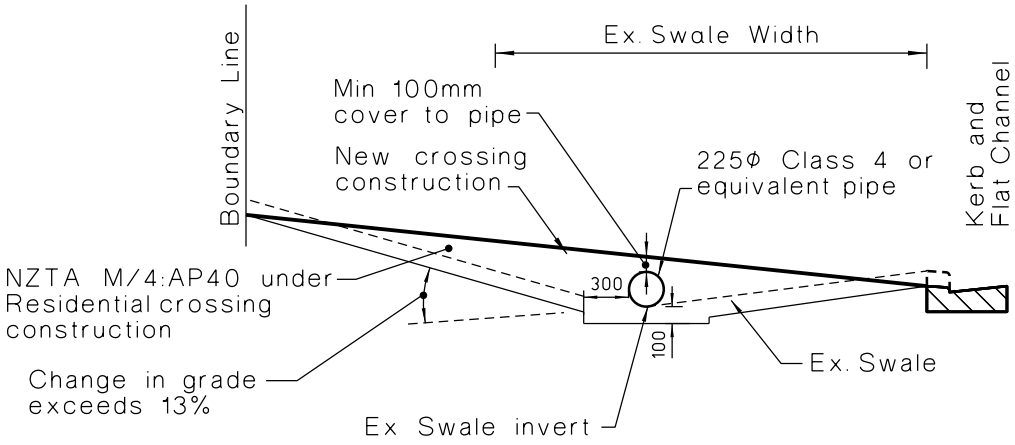
RS061601D



PLAN

NOTES:

1. Crossing locations and widths to comply with current District Plan.
2. Where two crossings are within 1m of each other they shall be joined to form one continuous crossing.
3. Vehicle Crossing Width to be minimum 3.5m.



CROSS SECTION

Christchurch City Council

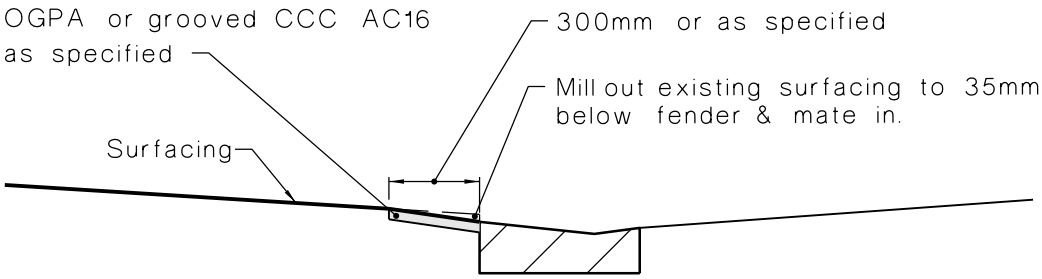
PIPED RESIDENTIAL VEHICLE CROSSING OVER EXISTING SWALE

ISSUE DATE | OCT 2016

SD616

SHEET 1

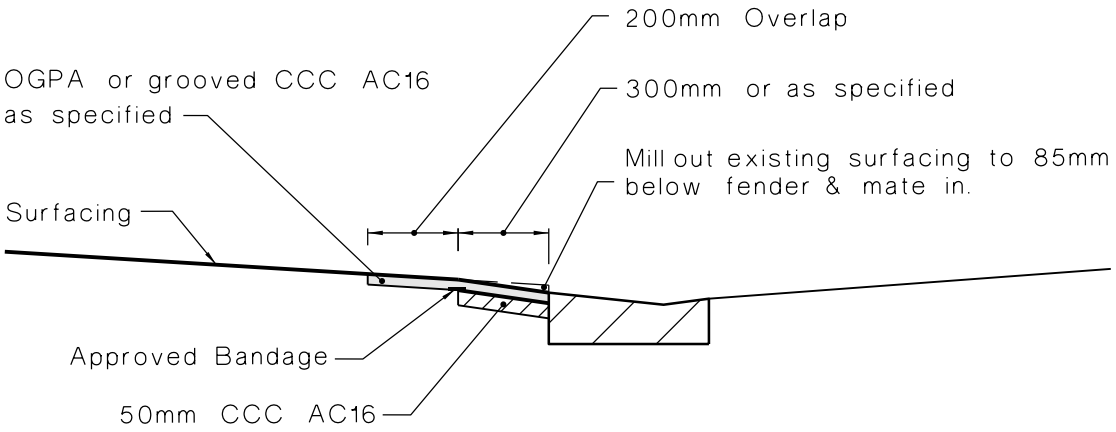
RS061001A



TYPE A

Note:

1. Where the existing underlying material is not granular.



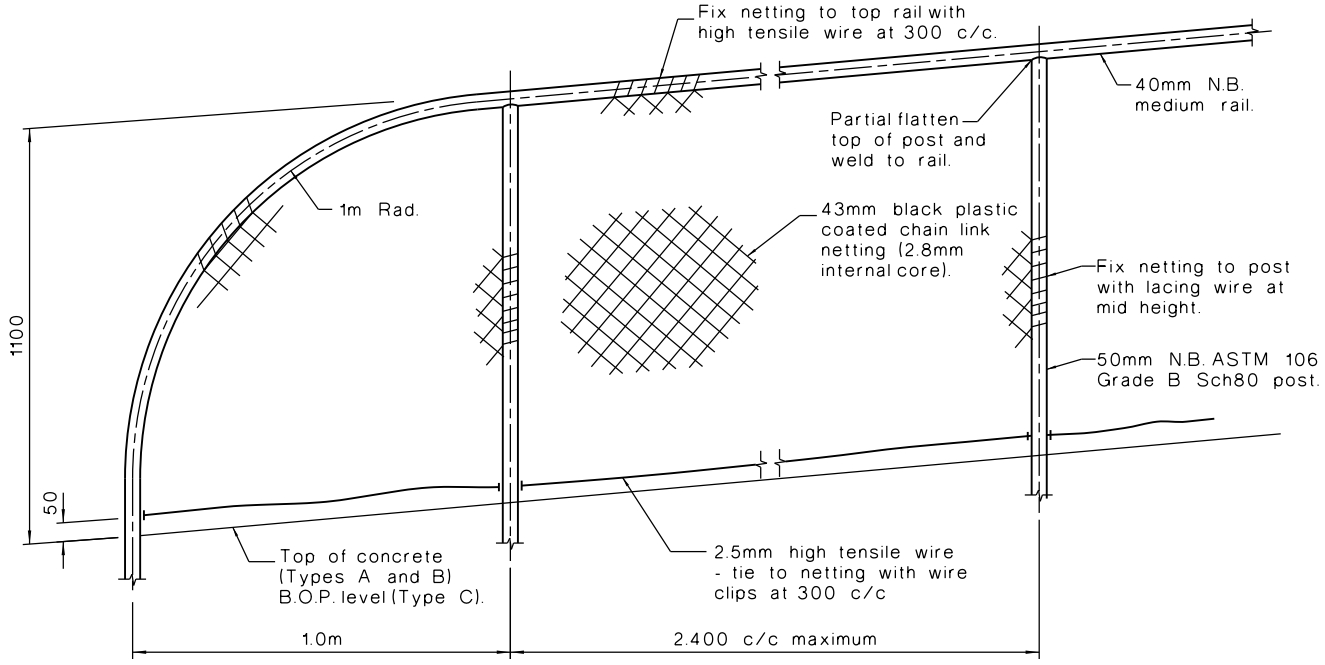
TYPE B

Note:

1. Where the existing underlying material is granular.

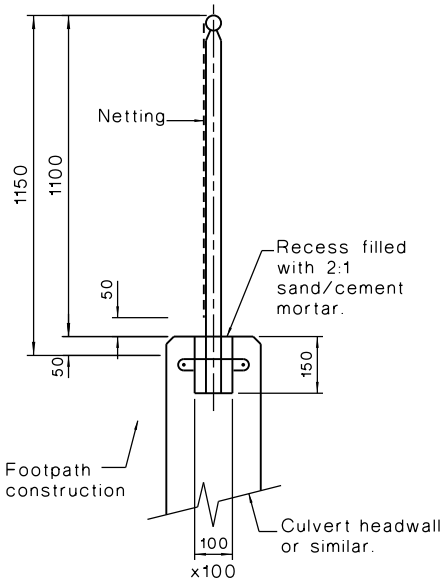
Christchurch City Council	OPEN GRADED POROUS ASPHALT (OGPA) AT KERB CROSSINGS	ISSUE DATE: JUNE 2005 SD617 SHEET 1

RS062101E

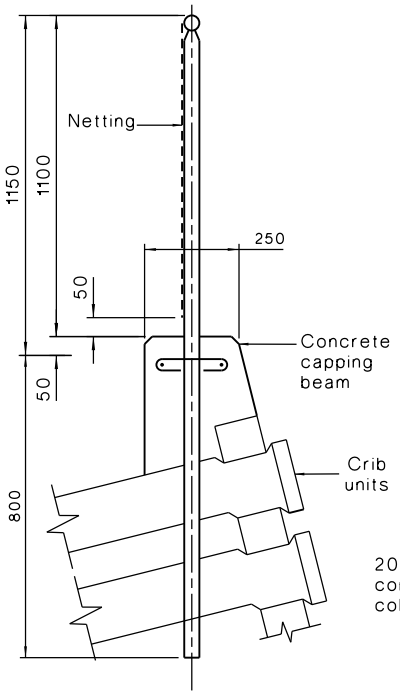


TYPICAL ELEVATION

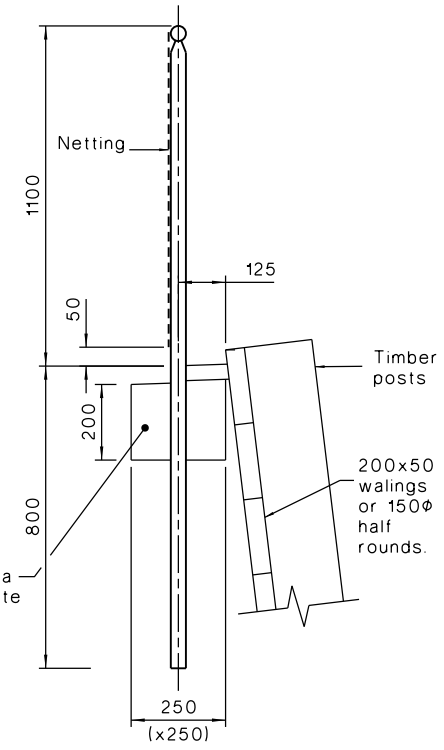
NOT TO SCALE



TYPE A RECESSED



TYPE B CRIB WALL



TYPE C TIMBER WALL

NOTES:

1. All steel work to be galvanised to AS/NZS 4680 after fabrication.
2. Reinforcing details in concrete beam or headwall require specific design in all cases.
3. Post may be fixed with 2 or 4 M16 bolts through 20mm base plate.

Christchurch City Council

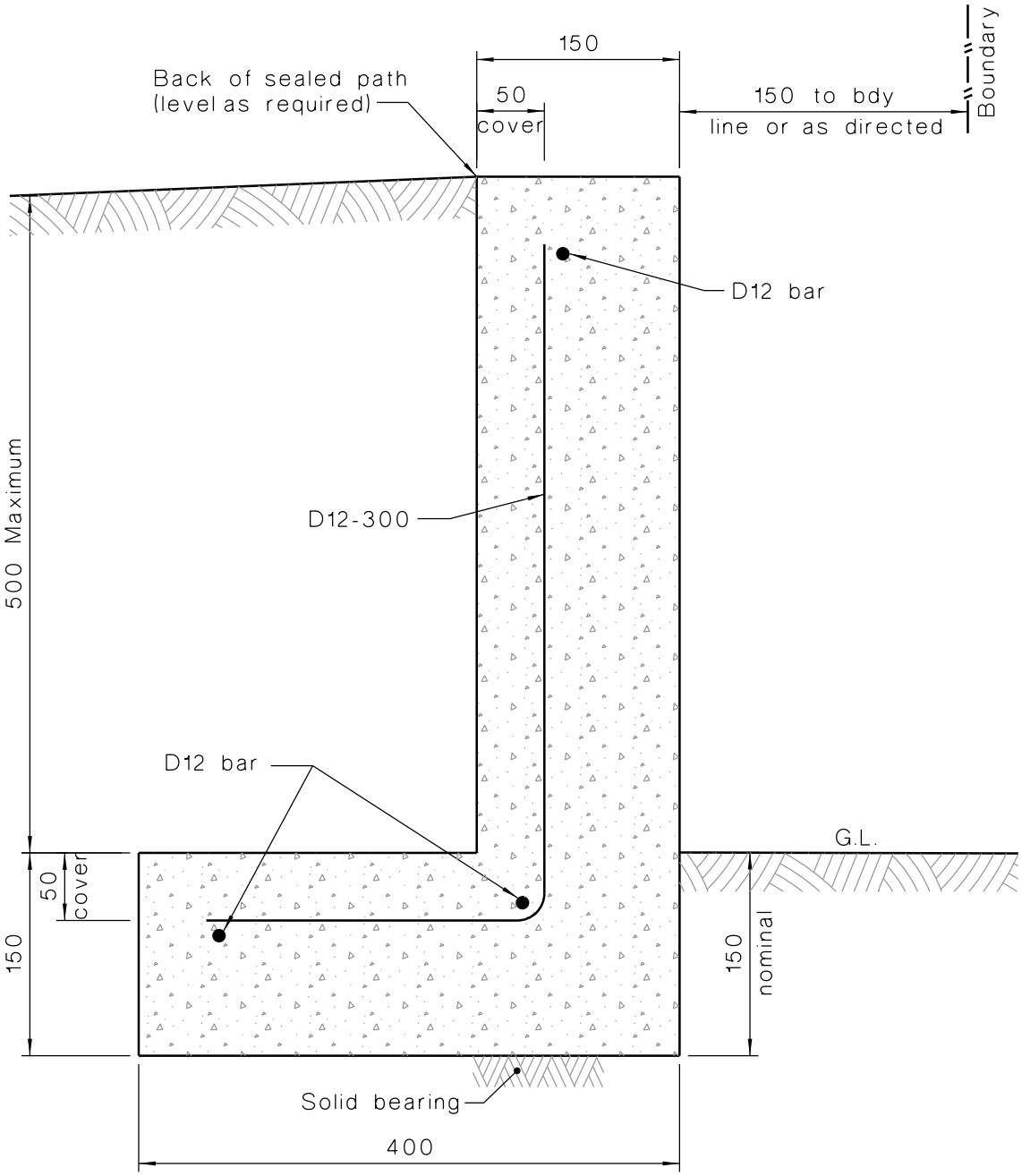
PEDESTRIAN SAFETY FENCE

ISSUE DATE	OCT 2016

SD621

SHEET 1 1

RS062201C



NOTE:

1. Concrete Strength to be 20 MPa at 28 days

Christchurch City Council

LOW RETAINING WALL

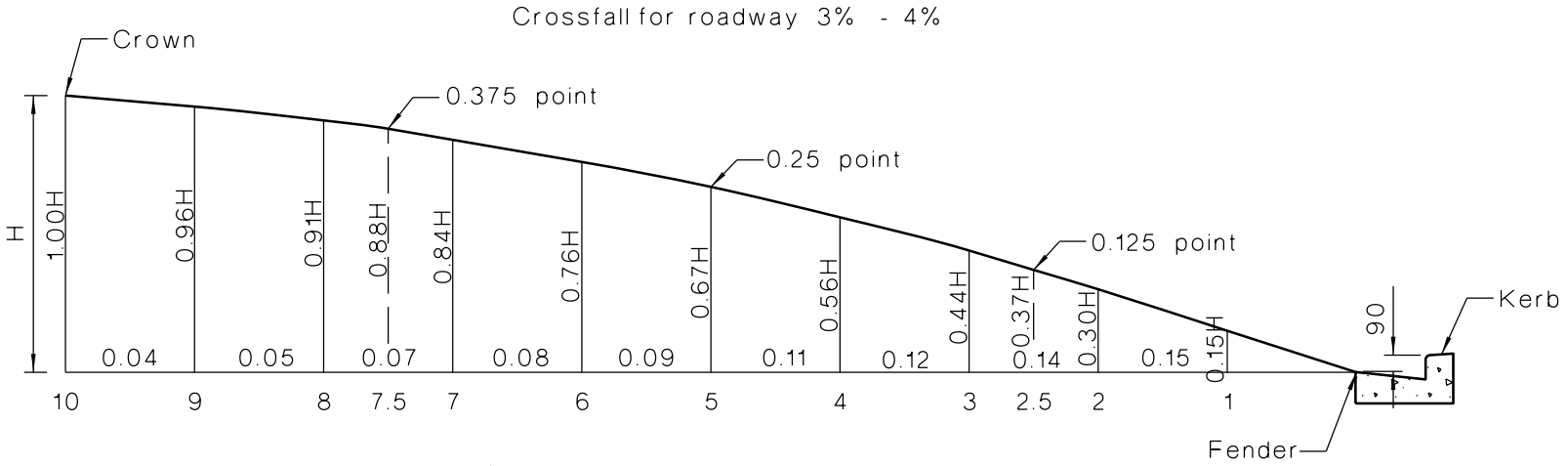
ISSUE DATE | MAR 2013

SD622

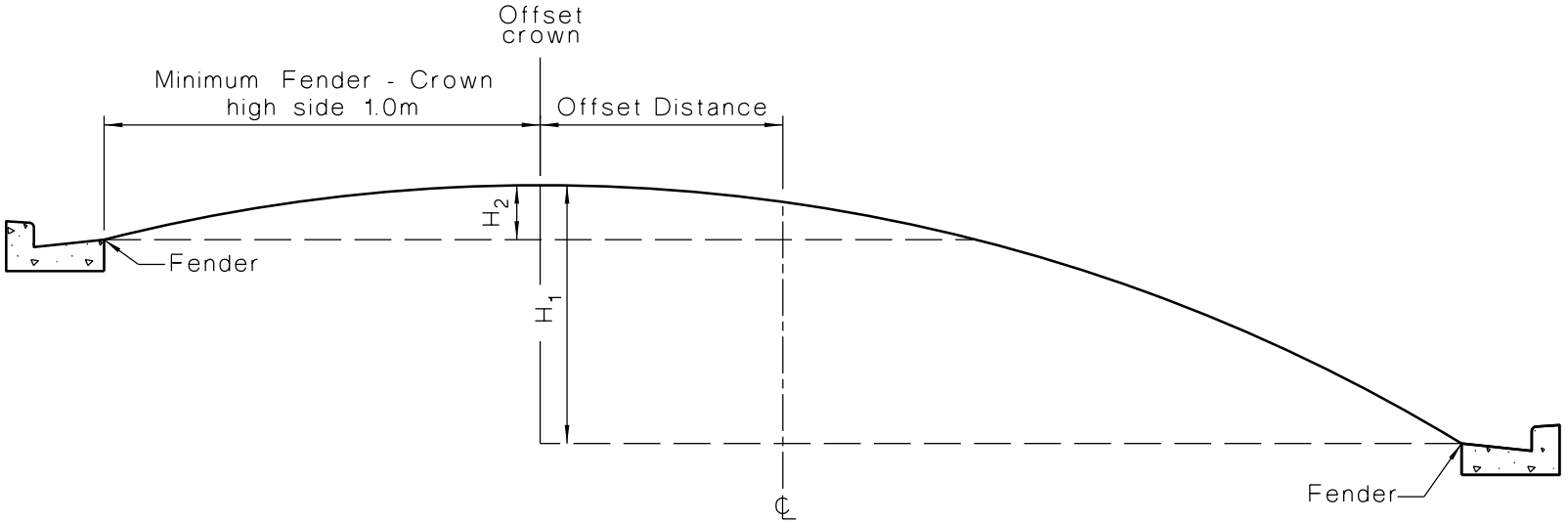
SHEET 1

Christchurch City Council

CAMBER TABLE



CAMBER TABLE



OFFSET CROWN

NOTES:

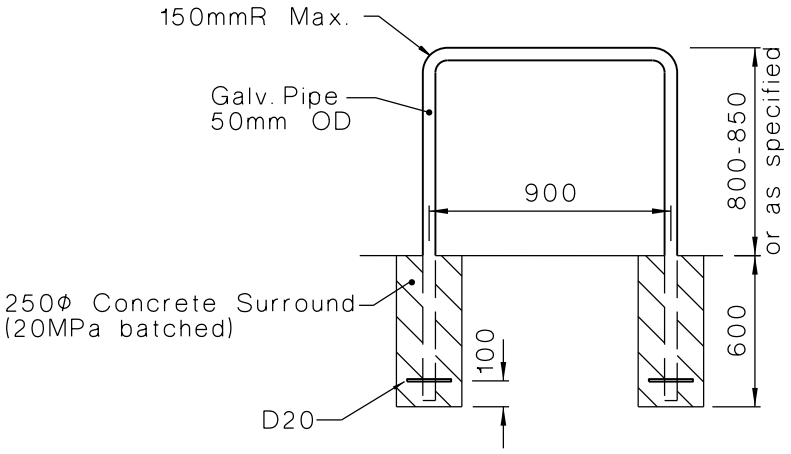
1. Where the road width is between 6-9m, design with a (central) peak and straight grades falling to the fender.
2. Where the road width is under 6m, design with a single crossfall and construct with a straight grade from fender to fender.
3. Carriageway camber on either side of offset crown should be balanced in terms of the above camber tables.

SD623

ISSUE DATE OCT 2016

SHEET 1

RS062401D



CYCLE STAND DETAIL - TYPE A

Christchurch City Council

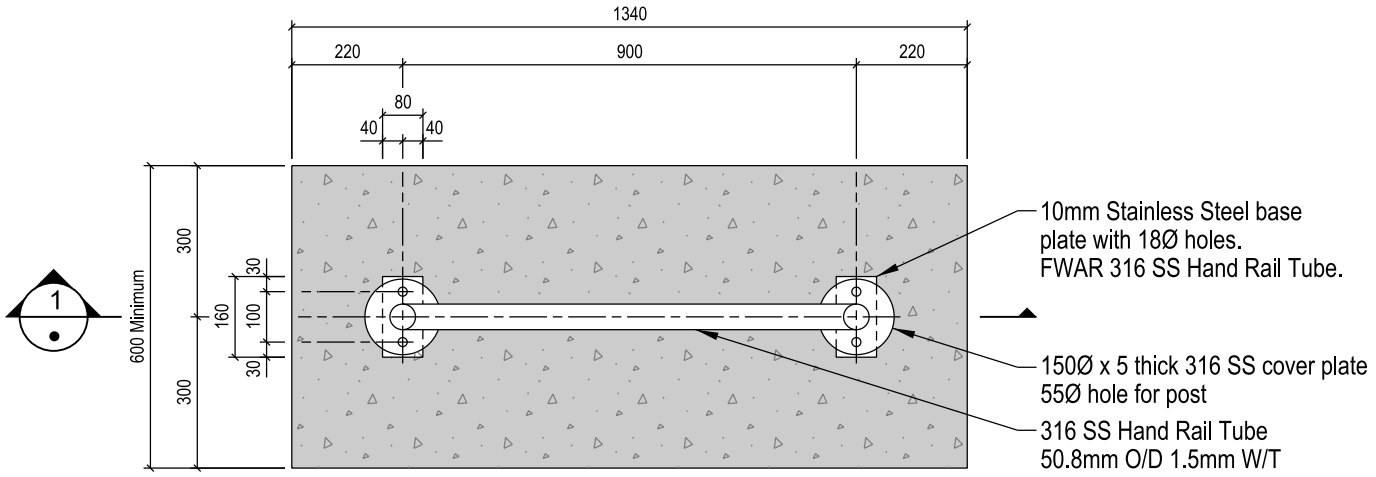
TYPE A CYCLE STAND

ISSUE DATE	DEC 2019

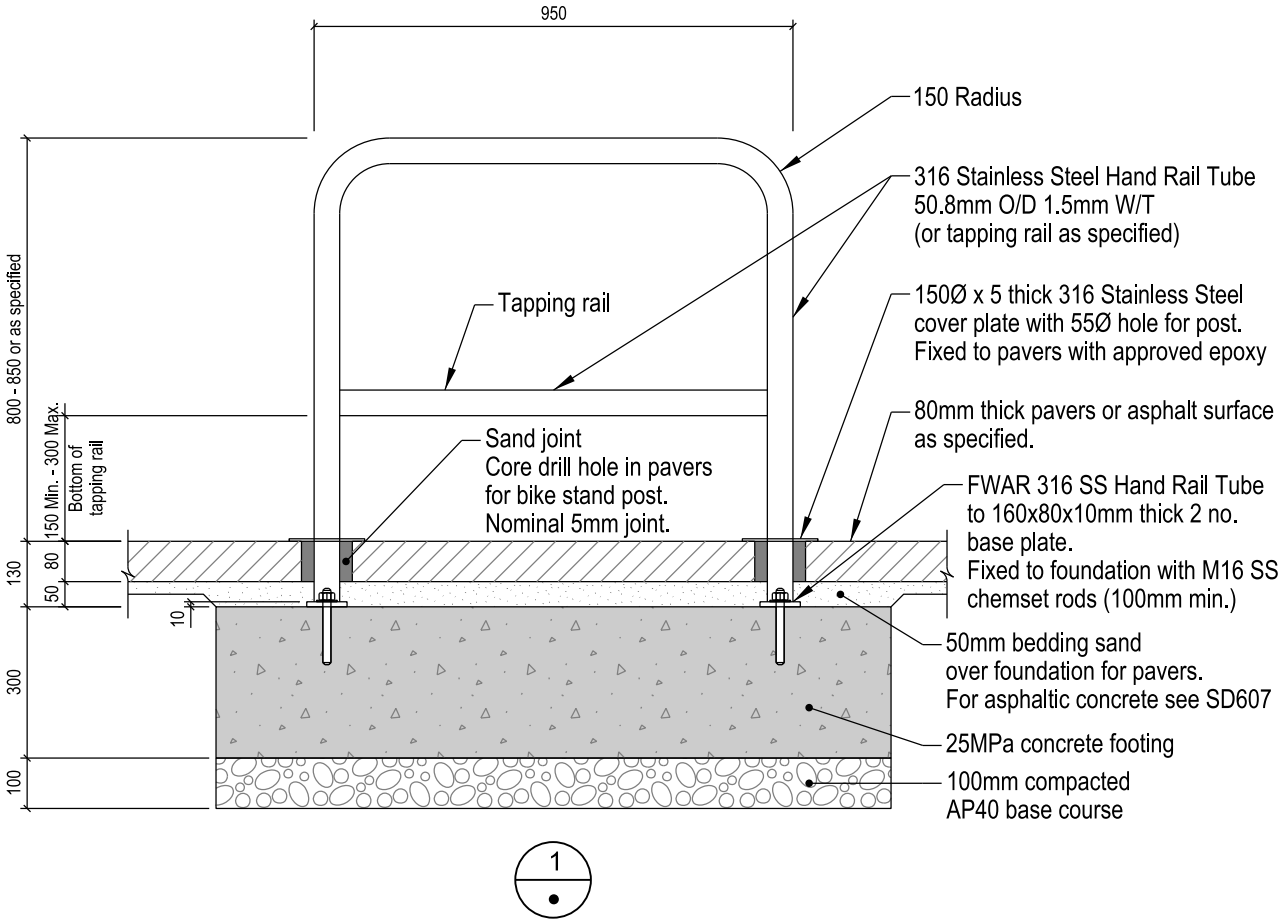
SD624

SHEET 1 2

rs162402a.dgn



PLAN



NOTES:

1. All components to be constructed from grade 316 stainless steel.
2. All welding to be full strength butt welds.
3. All surfaces to have 'BA' surface finish.
4. All fixings to be stainless steel.
5. Sample to be provided including cover plates.
6. Ensure cycle stand is vertical and level after fabrication and when installed.
7. Cycle stand spacing to be 1.1m centres minimum.

Christchurch City Council

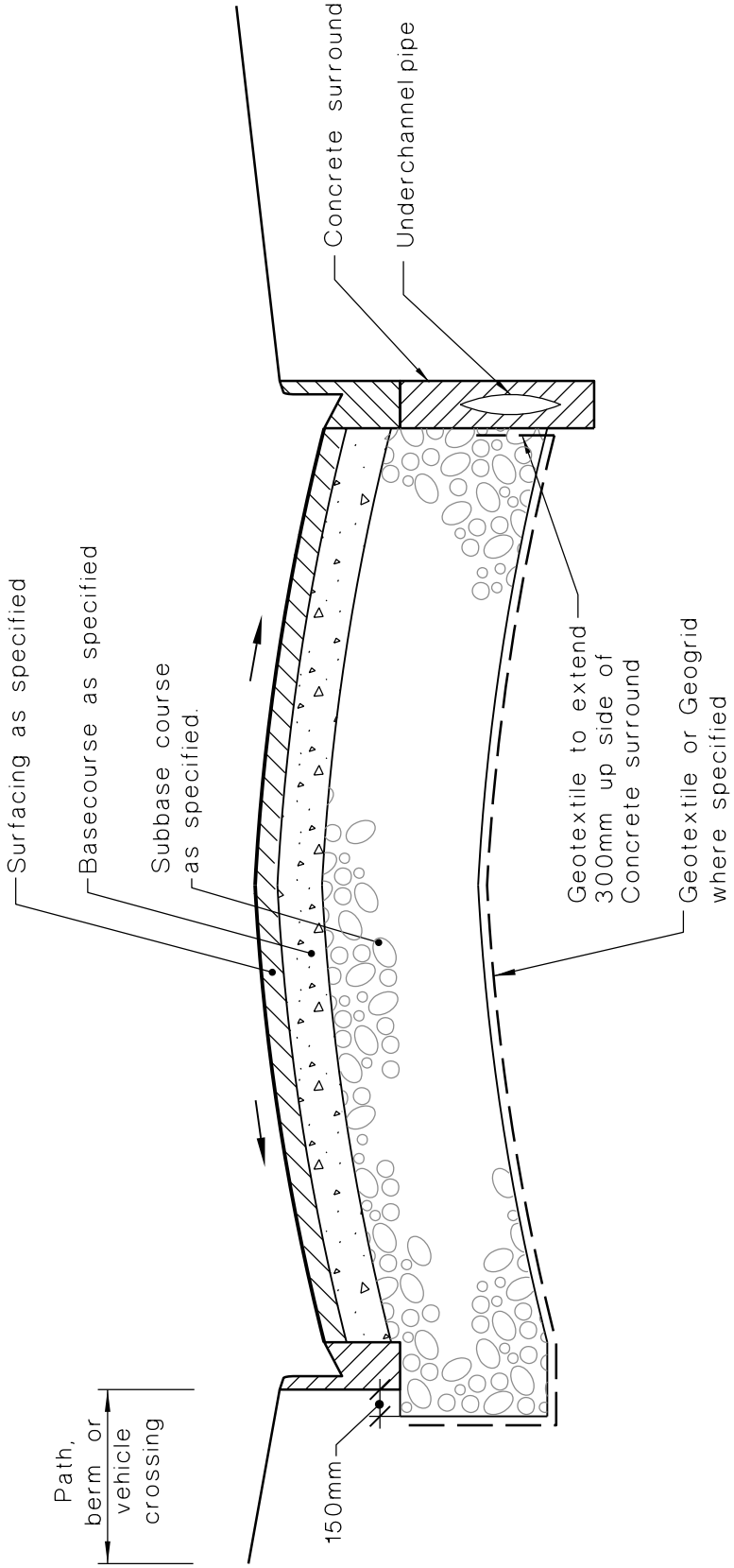
STAINLESS STEEL CYCLE STAND

ISSUE DATE	DEC 2019

SD624

SHEET 2 OF 2

RS062501A



Christchurch City Council

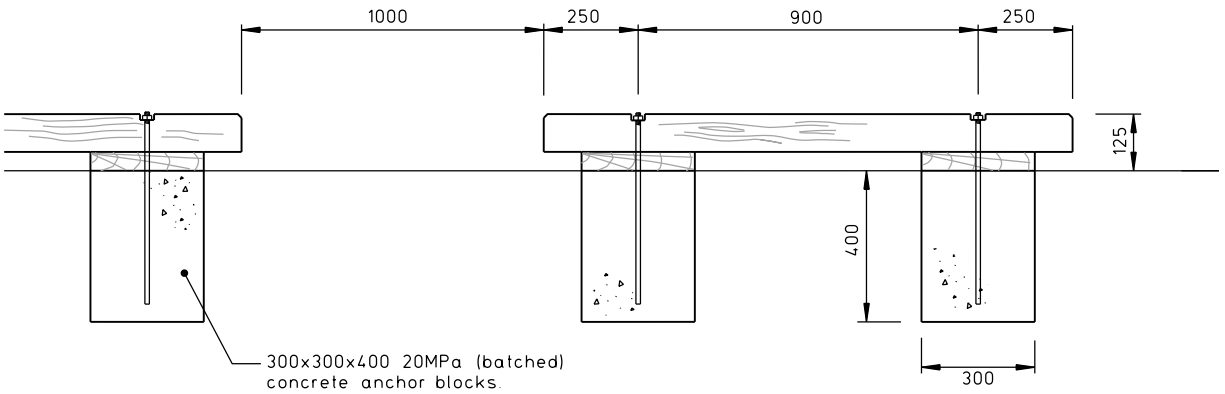
TYPICAL ROAD CROSS SECTION

ISSUE DATE	FEB 2002

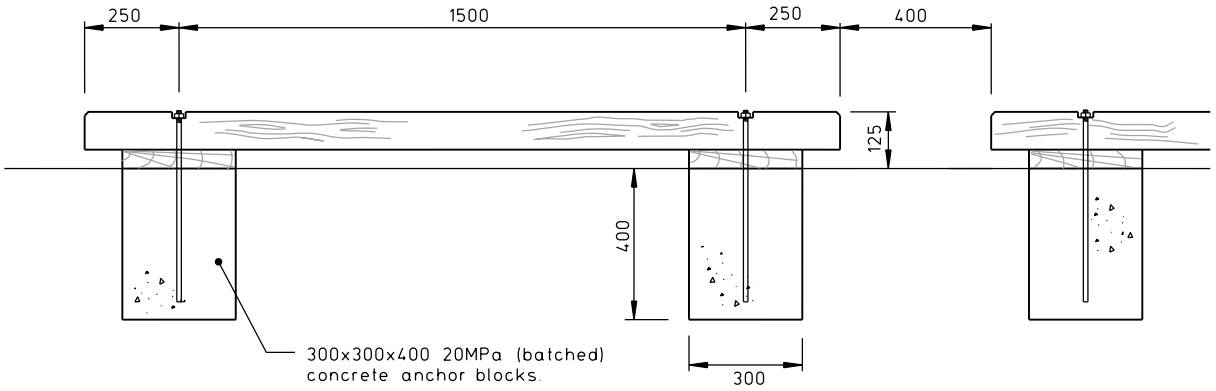
SD625

SHEET 1

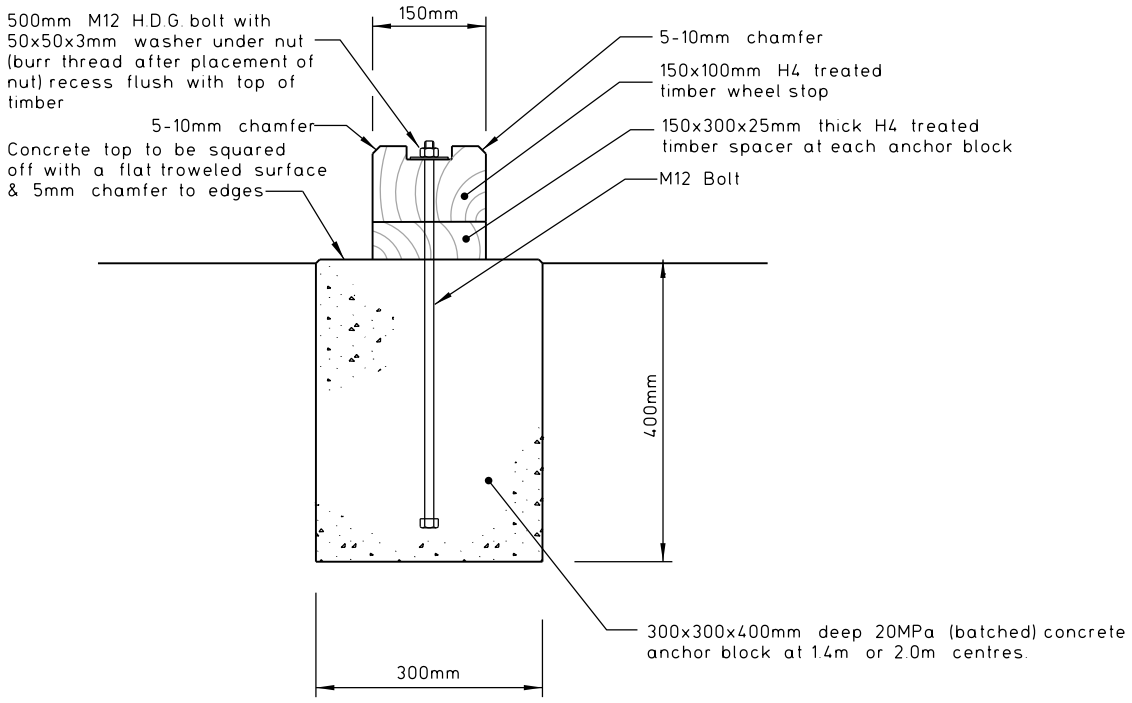
RS062601C



1.4m WHEEL STOPS



2.0m WHEEL STOPS

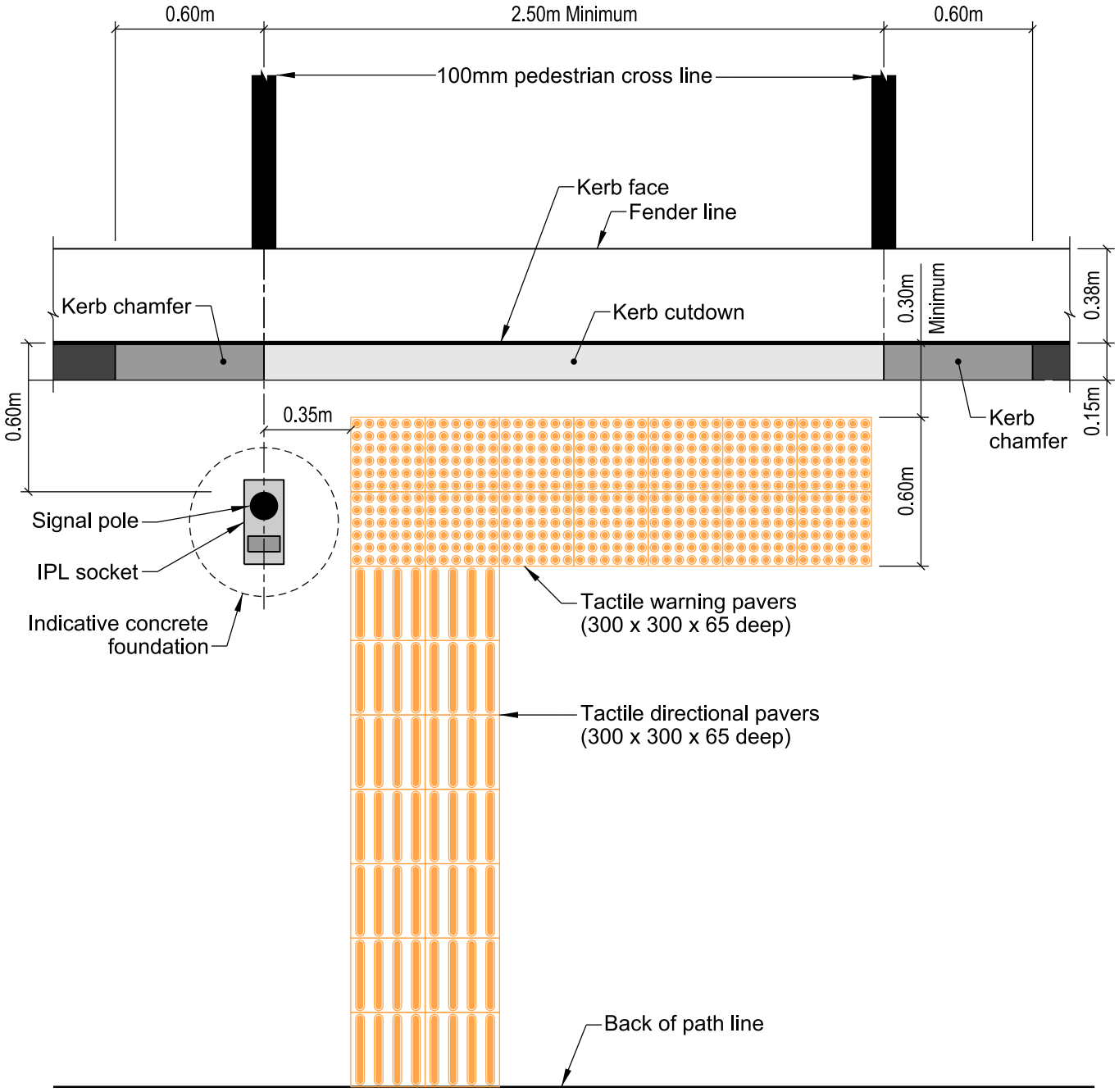


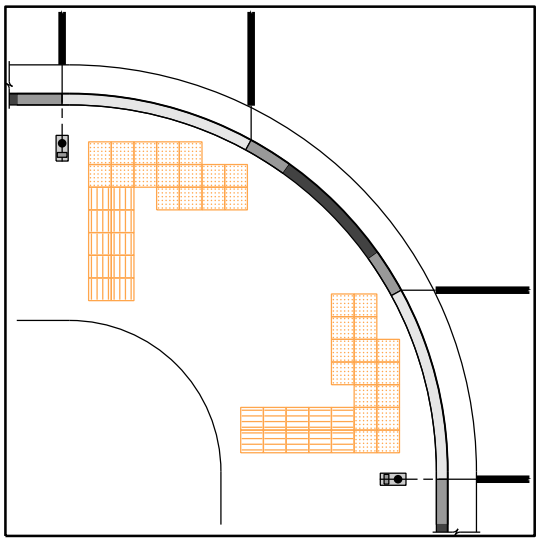
WHEEL STOP END ELEVATION

Christchurch City Council	WHEEL STOP	ISSUE DATE	DEC 2019
		SD626	
		SHEET 1	

rs1627701b.dgn

rs1627701b.dgn





Corner Rounding Detail

NOTE:
Tactile installations where there is no traffic signal pole are to be to RTS 14.

Christchurch City Council

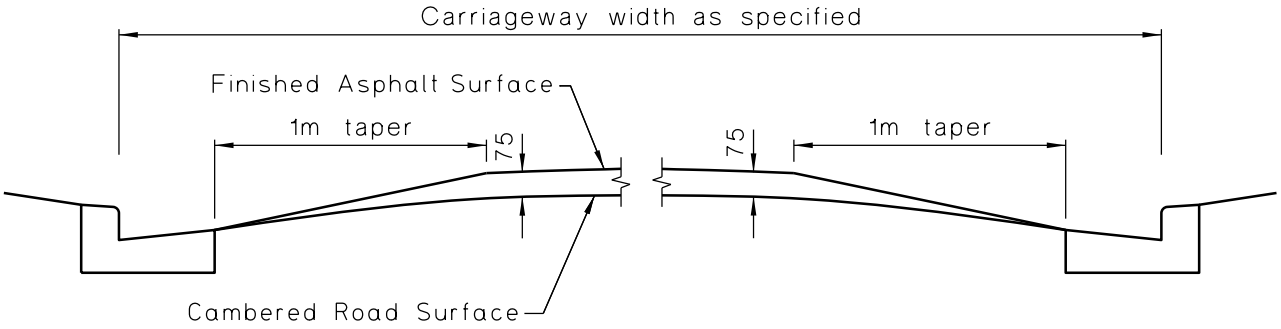
TRAFFIC SIGNAL POLE LOCATION RELATIVE TO KERB CUTDOWN

ISSUE DATE	DEC 2019

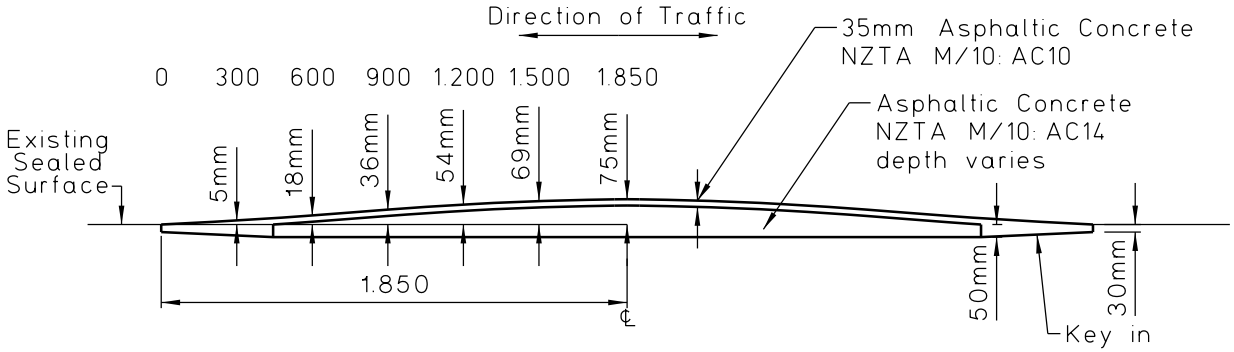
SD627

SHEET 1 OF 1

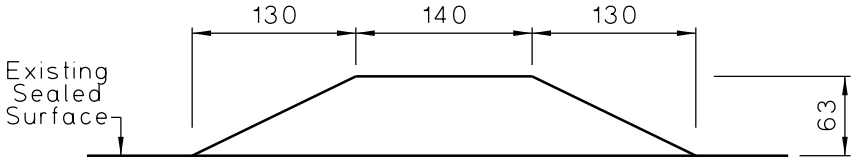
RS063101G



ROAD HUMP CROSS SECTION



ROAD HUMP PROFILE
(3.70m WIDE)



SMALL ROAD HUMP PROFILE

Note:
1. The Surface of the Compacted Asphalt shall at no point vary more than 5mm from the Standard Profile laid Longitudinally over the Road Hump.
2. Refer to SD641 for road marking details.

Christchurch City Council

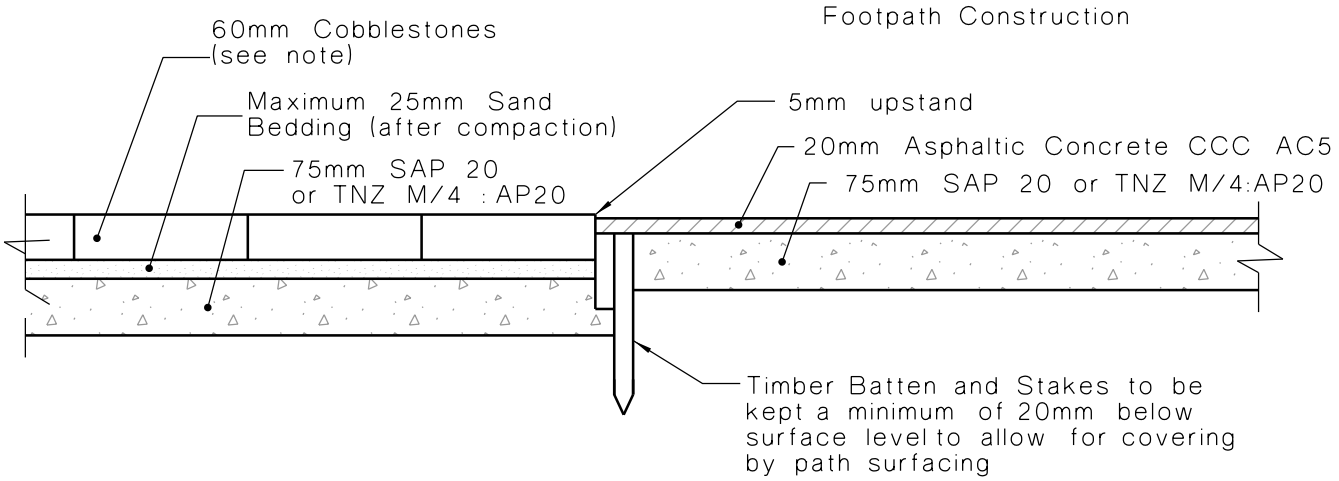
ROAD HUMP DETAILS

ISSUE DATE	NOV 2022

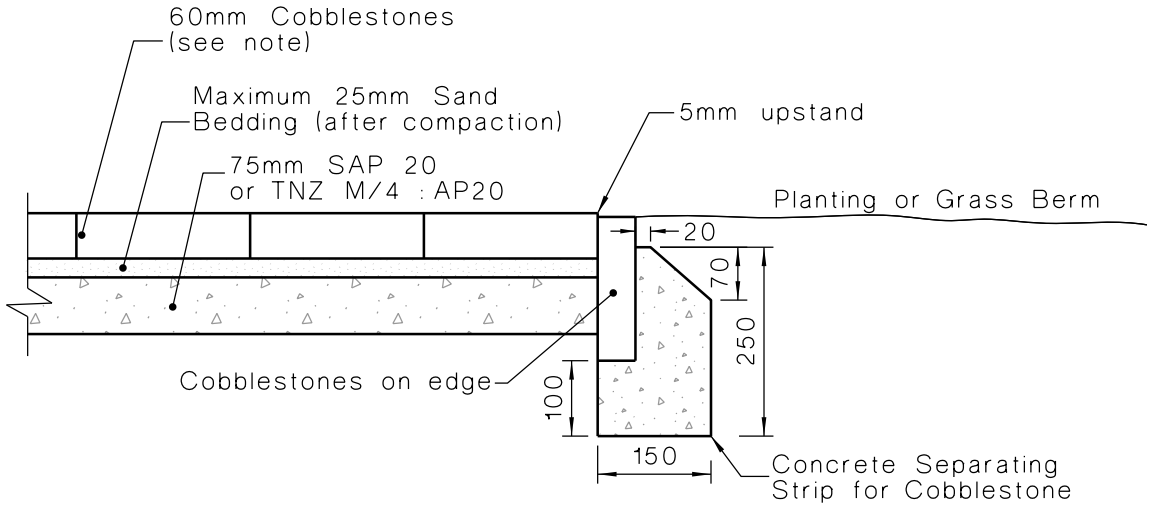
SD631

SHEET 1

RS063301B



COBBLESTONES ADJACENT TO FOOTPATH



COBBLESTONES ADJACENT TO PLANTING/BERM

NOTES:

1. Colour of cobblestones to be as specified.
2. See SD 607 for footpath construction details.
3. Concrete Strength to be 20MPa at 28 days.

Christchurch City Council

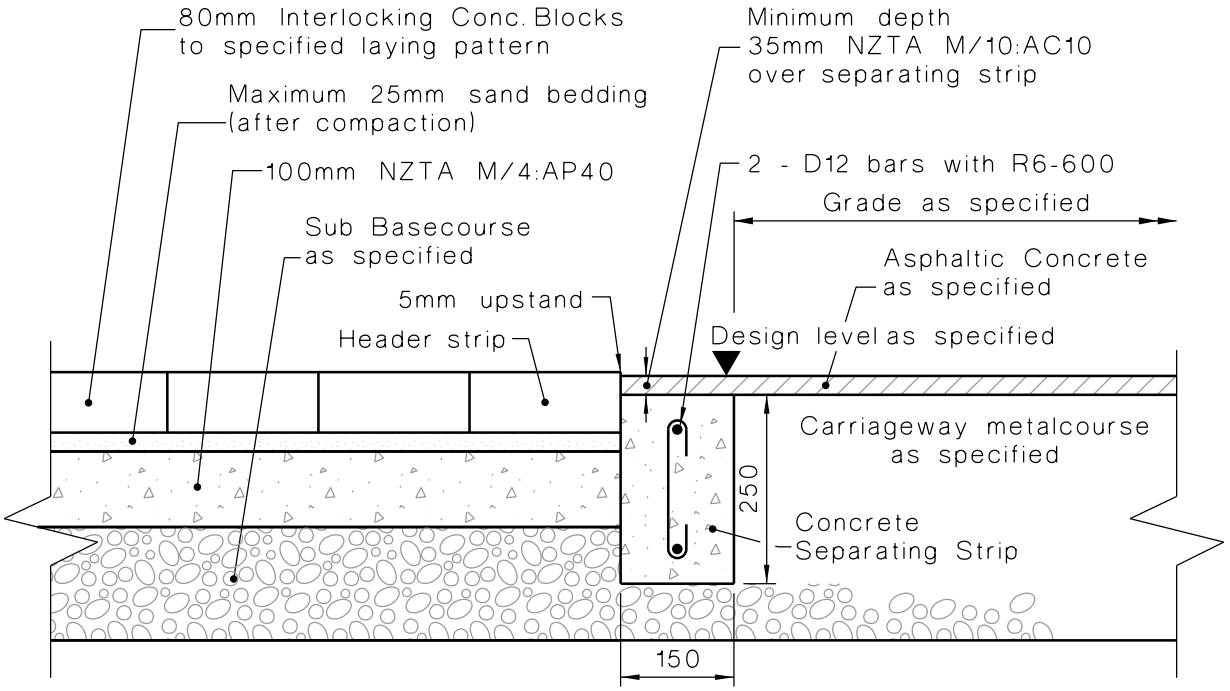
COBBLESTONE EDGE TREATMENTS

ISSUE DATE | MAY 2004

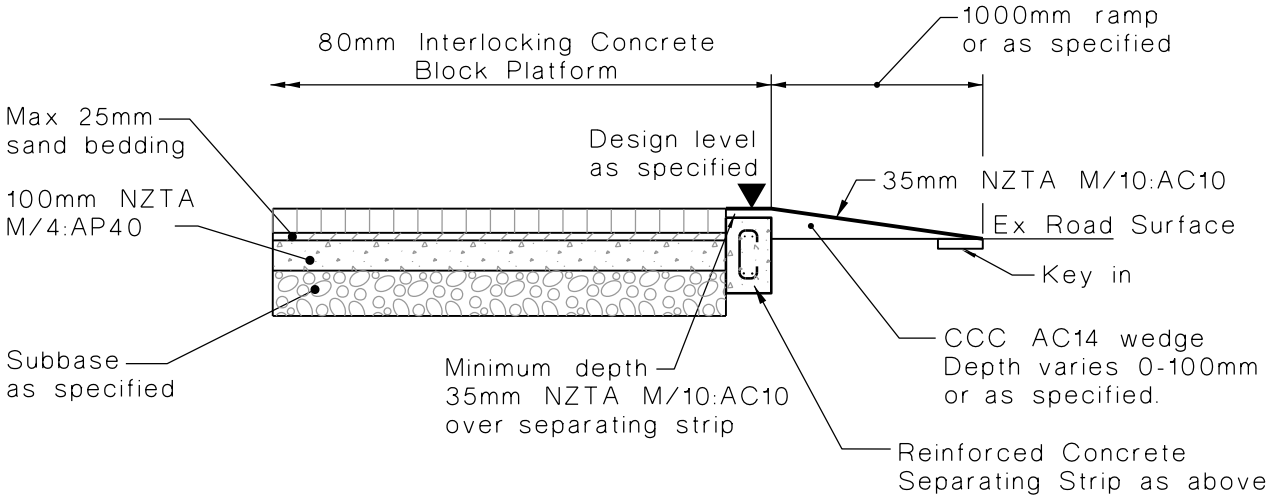
SD633

SHEET 1

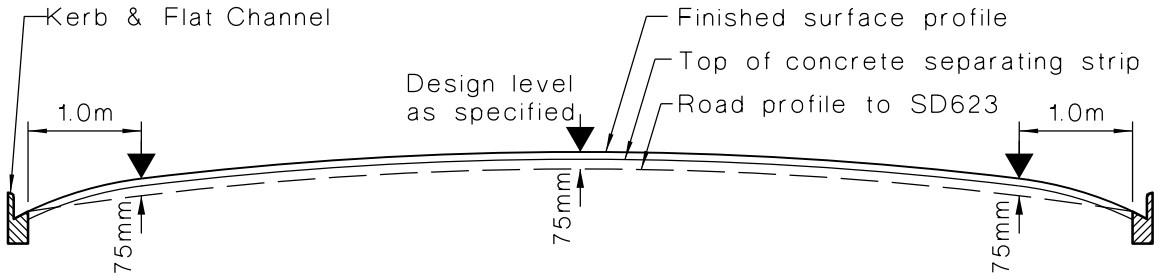
RS063401F



CARRIAGEWAY THRESHOLD (LONGITUDINAL SECTION)



PLATFORM RAMP DETAILS



PLATFORM RAMP BEAM SECTION

NOTES:

1. Colour of Interlocking Conc. Blocks to be as specified.
2. Concrete strength to be 20MPa at 28 days.
3. Exposed concrete finish to conform with class U3 NZS 3114.
4. Refer to SD641 for road marking details.

Christchurch City Council

INTERLOCKING CONCRETE BLOCK EDGE TREATMENTS

ISSUE DATE | NOV 2022

SD634

SHEET 1

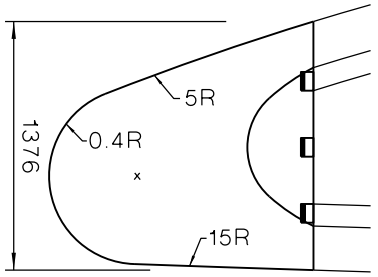
Christchurch City Council

MID BLOCK PEDESTRIAN ISLAND

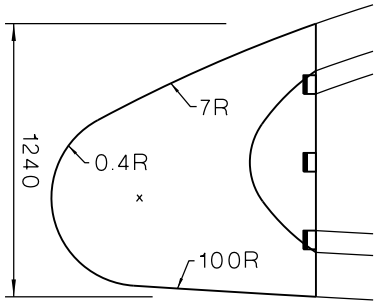
SD635

ISSUE DATE NOV 2022

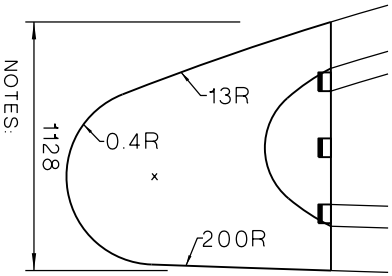
SHEET 1 of 2



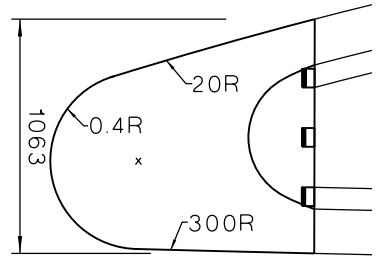
9.0-10.5m ISLAND NOSING



12.0-13.5m ISLAND NOSING



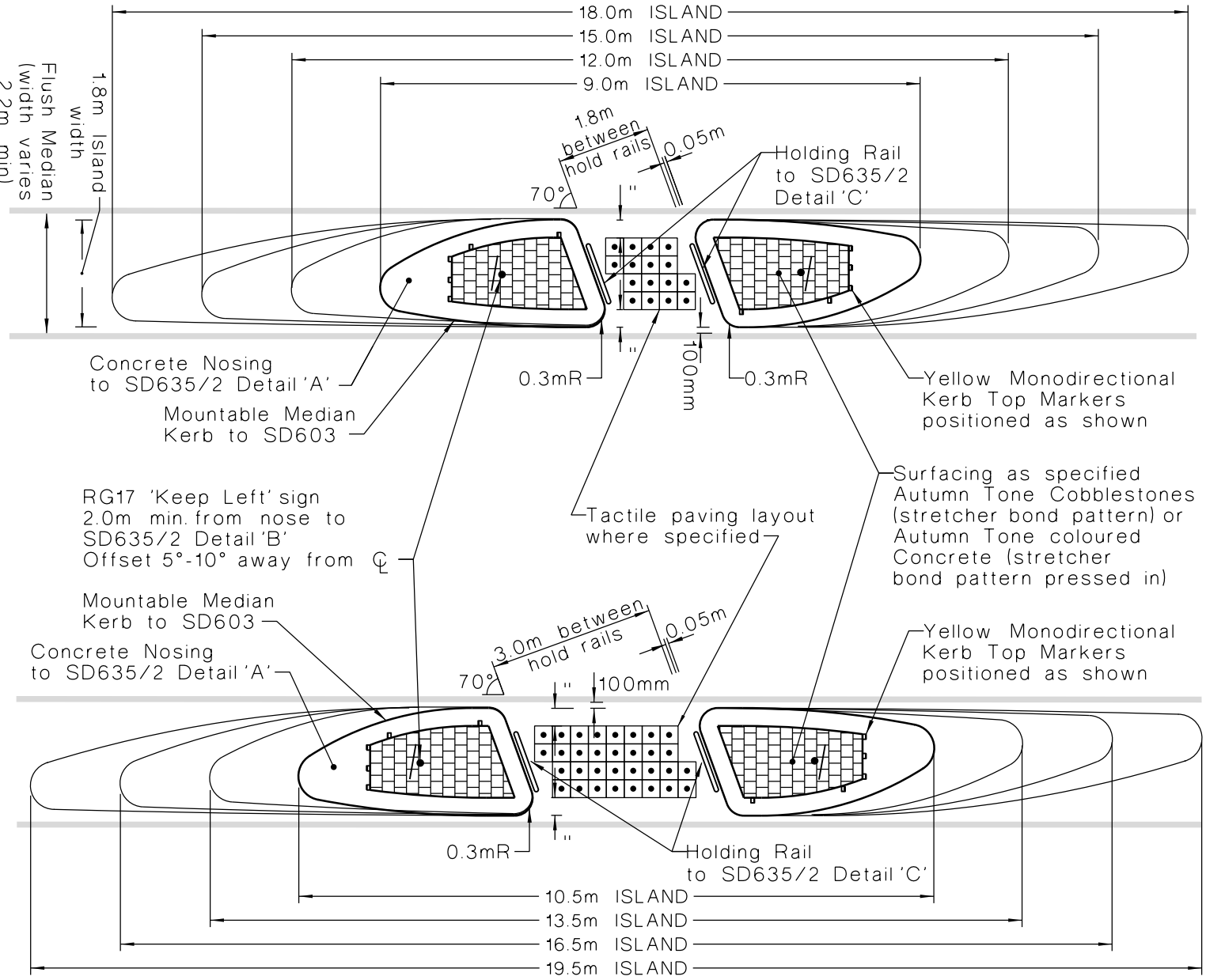
15.0-16.5m ISLAND NOSING



18.0-19.5m ISLAND NOSING

NOTES:
1. Concrete strength to be 20MPa at 28 days.
2. Concrete finish to conform with Class U3 of NZS3114.

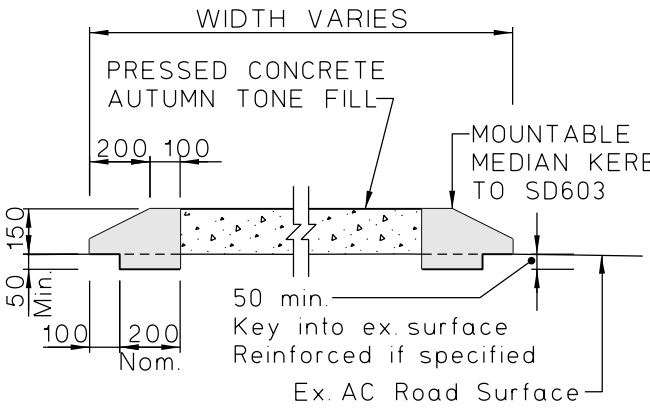
PEDESTRIAN ISLAND WITH 1.8m CROSSING



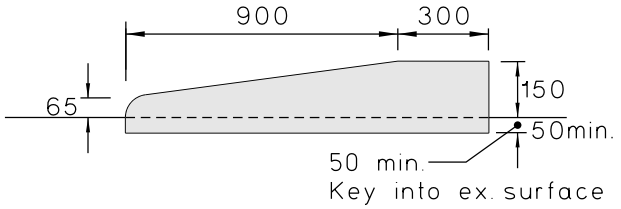
PEDESTRIAN ISLAND WITH 3.0m CROSSING

RS063501F

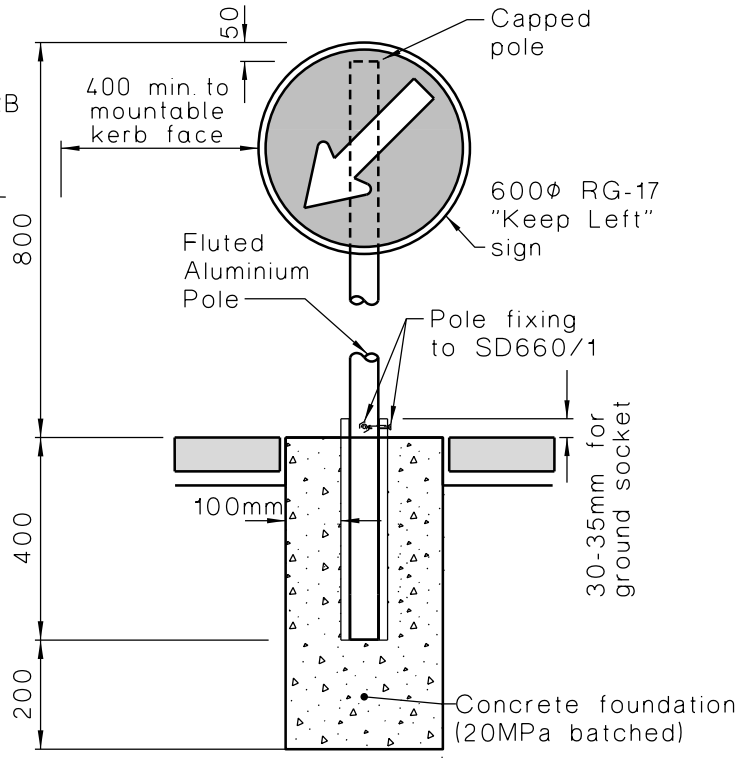
RS0635021



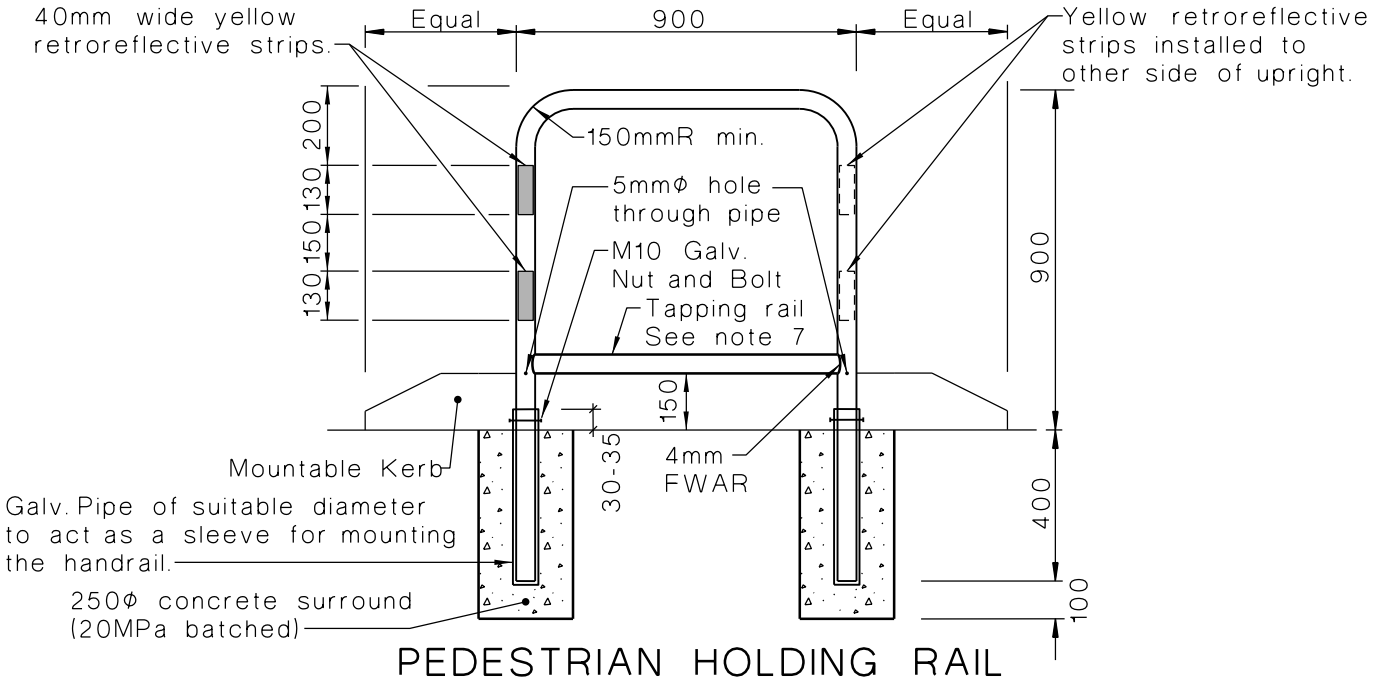
PEDESTRIAN ISLAND TYPICAL SECTION



PEDESTRIAN ISLAND NOSING ELEVATION DETAIL 'A'



RG.17 SIGN DETAIL 'B'



PEDESTRIAN HOLDING RAIL DETAIL 'C'

NOTES

1. Where sign is installed in landscape areas, the concrete foundation depth shall be increased by 300mm.
2. Holding Rail and tapping rail to be made from 40 NB medium Galv. Pipe then powder coated with Orica 288 96905, Clough Safety Yellow.
3. Holding and tapping rail galvanising to be carried out after welding.
4. Yellow retroflective strips required on holding rails within pedestrian islands only.
5. Yellow retroflective strip to TNZ M/14 to be applied to holding rail on side closest to oncoming traffic.
6. Where holding rail installed in pairs, retroflective strips are required on outside faces only.
7. Tapping rail not required at signalised crossings.

Christchurch City Council

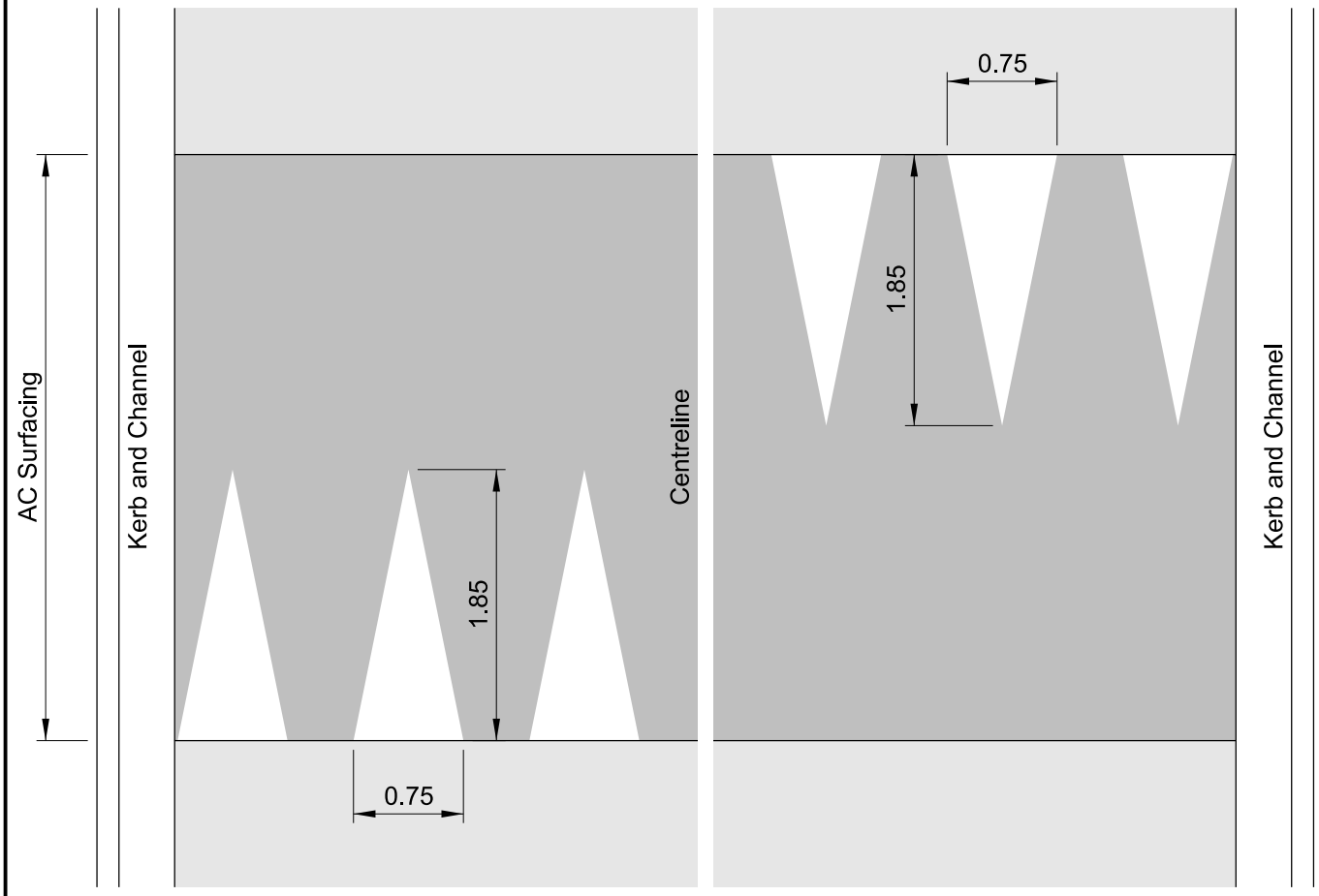
MID BLOCK PEDESTRIAN ISLAND DETAILS

ISSUE DATE	NOV 2022

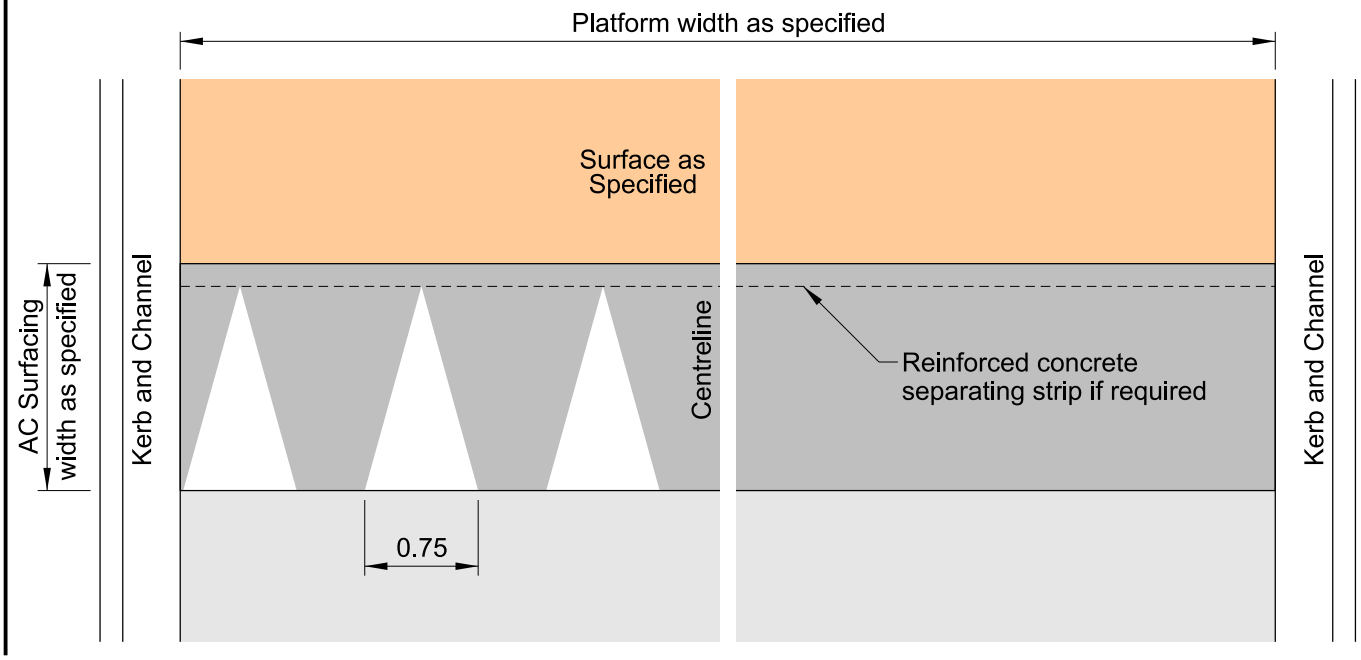
SD635

SHEET 2 of 2

rs164101a.dgn



ROAD HUMP



PLATFORM

NOTES:

1. Road hump / platform marking spacing to Traffic Control Devices Manual Part 5, Table 14-2.
2. Centreline to be marked only where specified.
3. Road marking product as specified.
4. Refer to SD631 for road hump construction details.
5. Refer to SD634 for platfrom construction details.

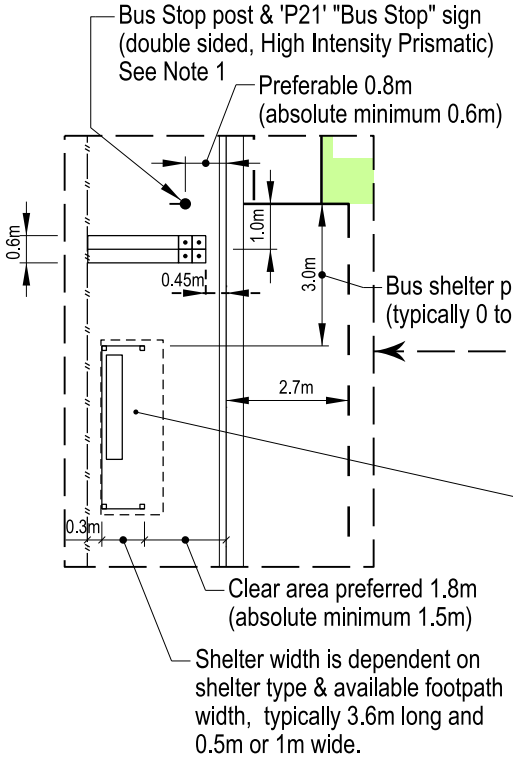
Christchurch City Council

TYPICAL ROAD HUMP AND PLATFORM ROAD MARKING

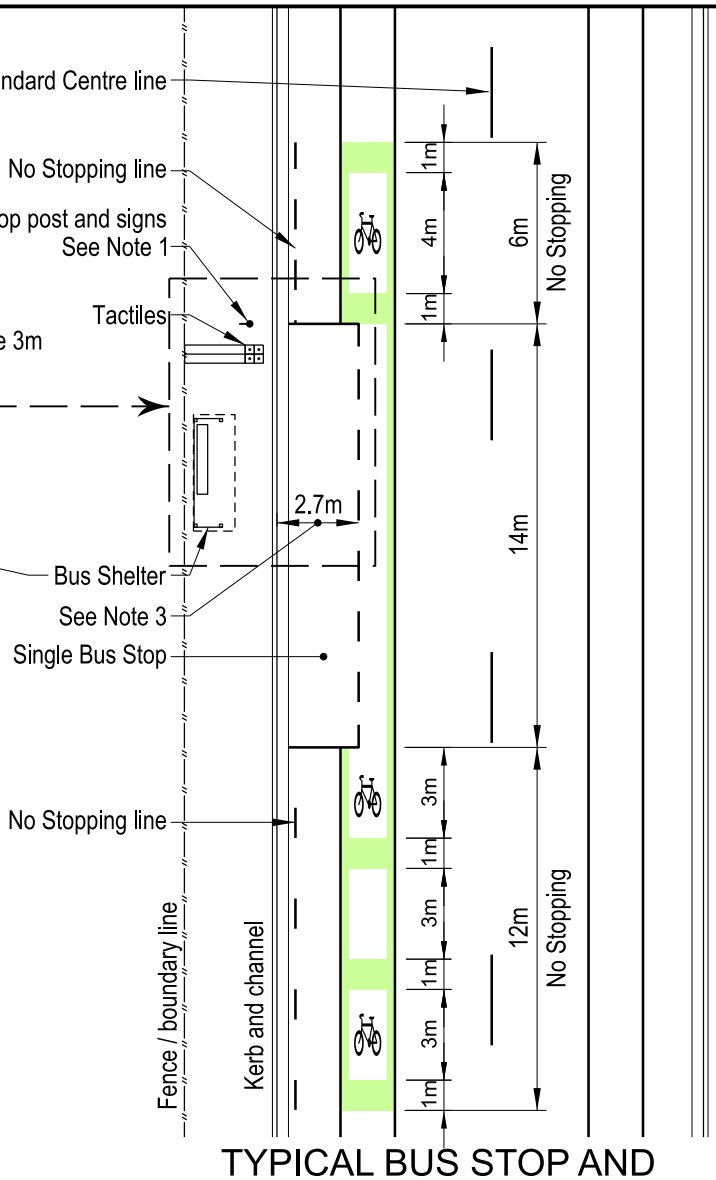
ISSUE DATE	NOV 2022

SD641

SHEET 1 OF



DETAIL



TYPICAL BUS STOP AND
ROAD MARKING LAYOUT

NOTES:

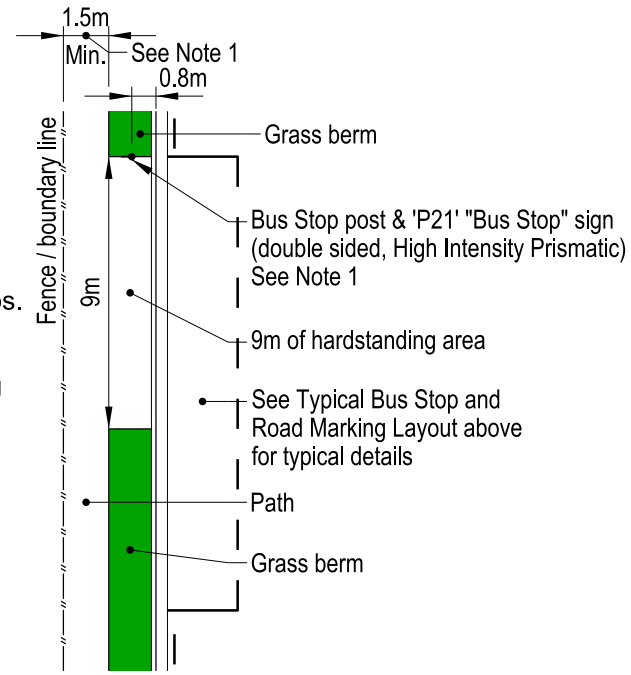
1. The Bus Stop sign post is preferably aligned with the front line of the bus box. Ensure a minimum footpath width of 1.5m is maintained next to the bus stop sign. Otherwise install the bus stop sign at the back of the footpath or attached to the side of the shelter.

2. Bus Stop marking stripes 1.0m x 0.1m wide with 1.0m gaps.

3. A minimum cycle lane width of 1.2m should be maintained along side the bus box. This may be achieved by reducing the bus box width to 2.5m. In the case that a 1.2m width can not be achieved the bus box should be extended out to the cycle lane edge line.

4. The same design can be used for the installation of a seat instead of a shelter. The bus stop pole and sign is often installed in line with the seat closest to the front of the bus box.

5. If the back of the bus box coincides with a driveway, extend the bus box the full width of the driveway.



NO SEAT OR
SHELTER LAYOUT

Christchurch City Council

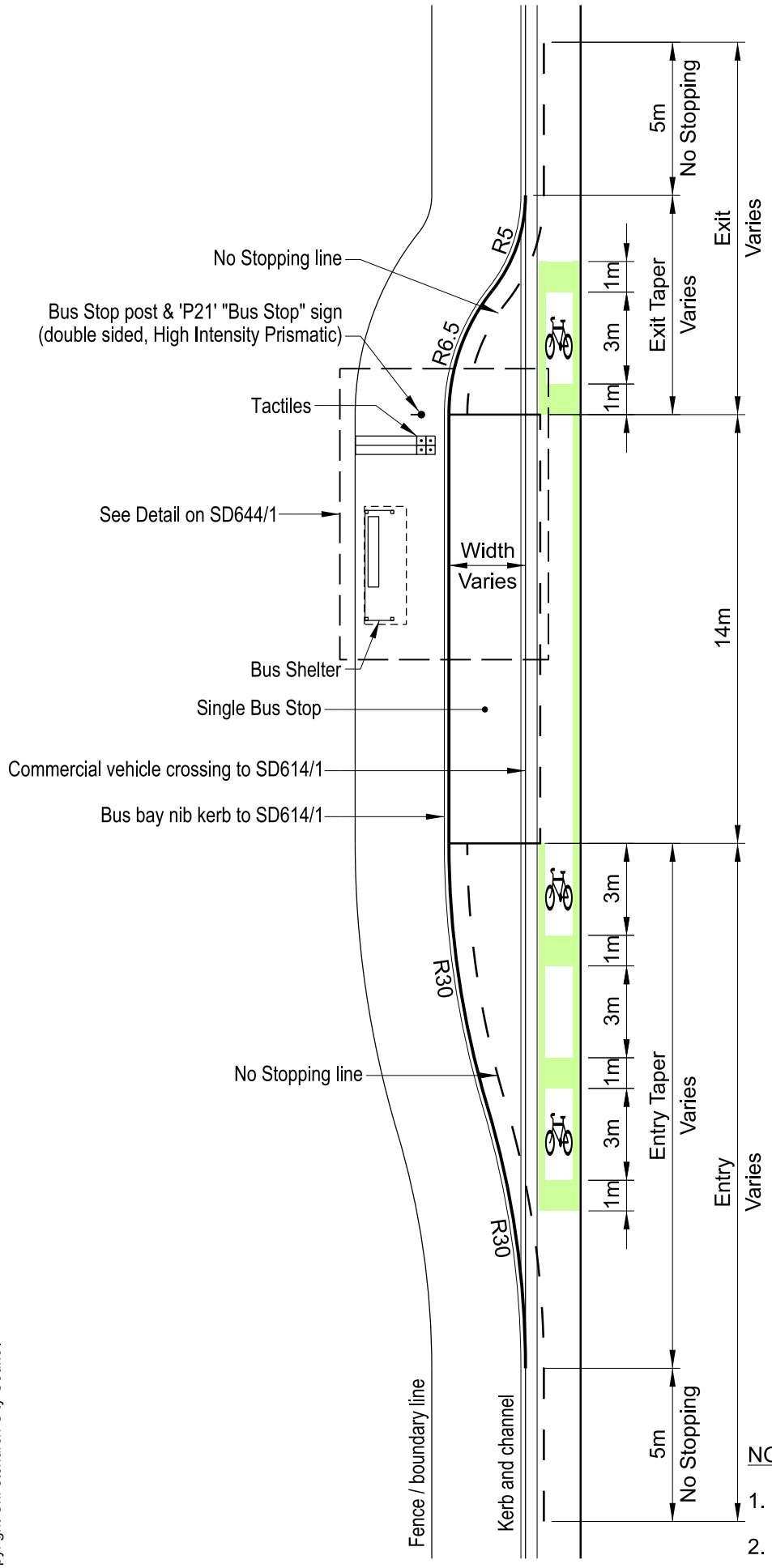
TYPICAL BUS STOP ROAD MARKING

ISSUE DATE	NOV 2022

SD644

SHEET 1 OF 2

rs164402a.dgn



Indented Bus Bay		
Width (m)	Entry (m)	Exit (m)
1.0	16.0	10.0
1.5	18.5	11.0
2.0	20.5	11.5
2.5	22.0	12.0

NOTES:

1. See SD644/1 for notes and details.
2. See SD614/1 for kerb and cross fall requirements.

Christchurch City Council

TYPICAL INDENTED BUS BAY

ISSUE DATE NOV 2022

SD644

SHEET 2 OF 2

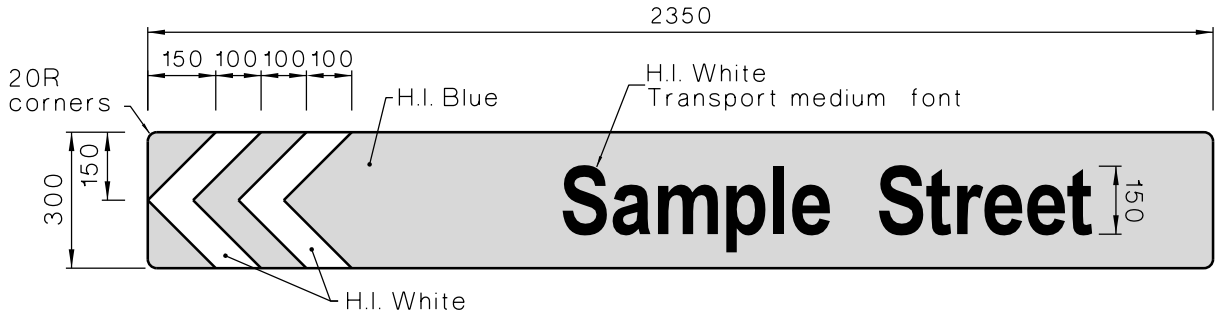
Christchurch City Council

ROUNDABOUT CHEVRON / NAME BOARD

SD645

ISSUE DATE NOV 2022

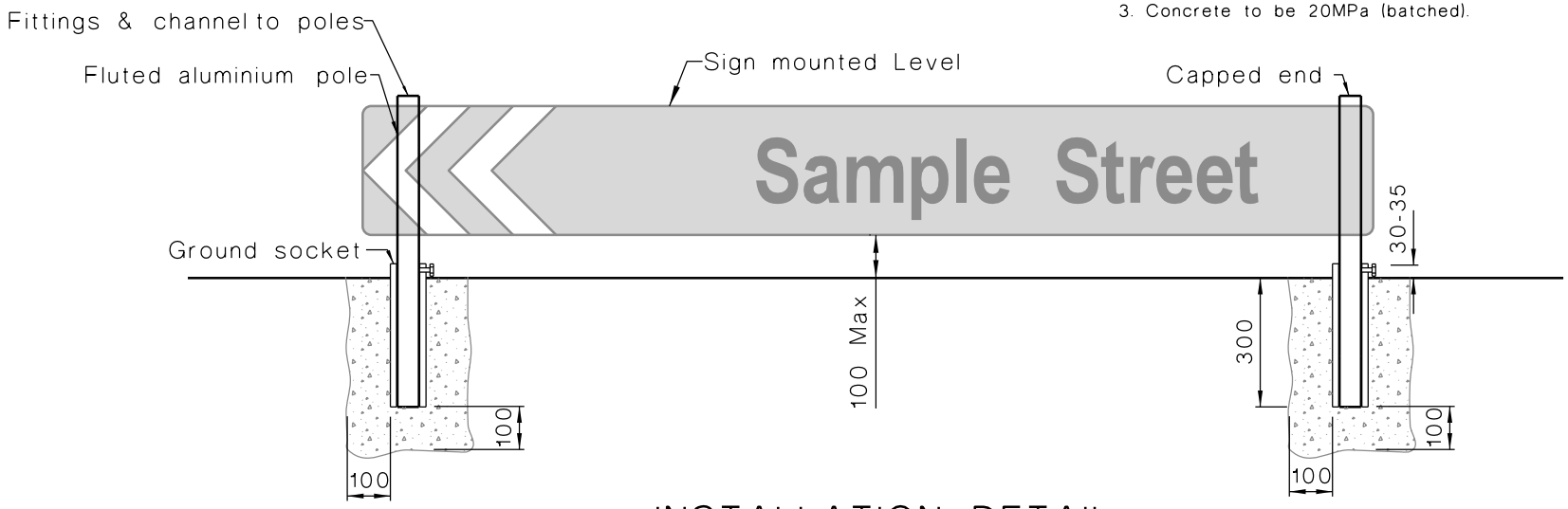
SHEET 1



STANDARD CCC ROUNDABOUT CHEVRON / NAME BOARD

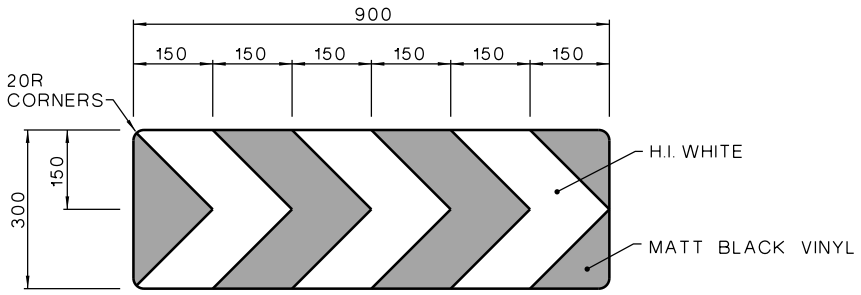
NOTE:

1. All dimensions are in millimetres (mm) unless otherwise stated.
2. No obstructions or landscaping in front of signs.
3. Concrete to be 20MPa (batched).

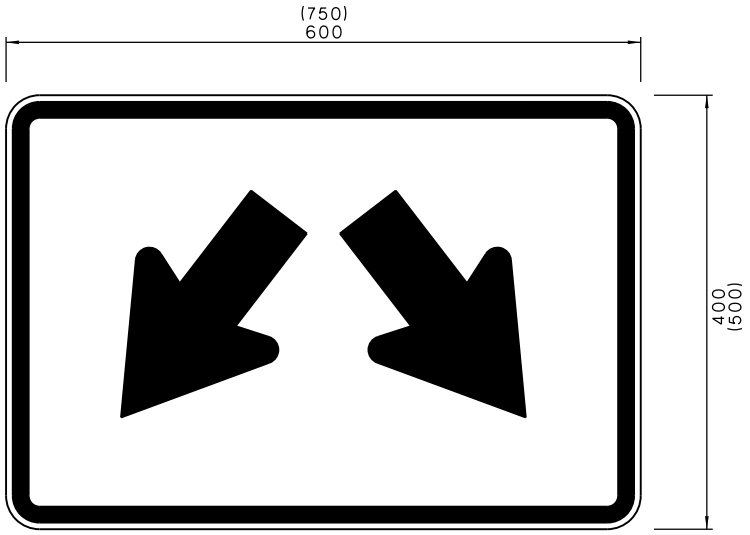


INSTALLATION DETAIL

RS064601B



STANDARD CCC CHEVRON BOARD



STANDARD CCC PW5 SIGN

NOTE:

1. All dimensions are in millimetres (mm) unless otherwise stated.

Christchurch City Council

CHEVRON & PW5 SIGN

ISSUE DATE	DEC 2009

SD646

SHEET 1

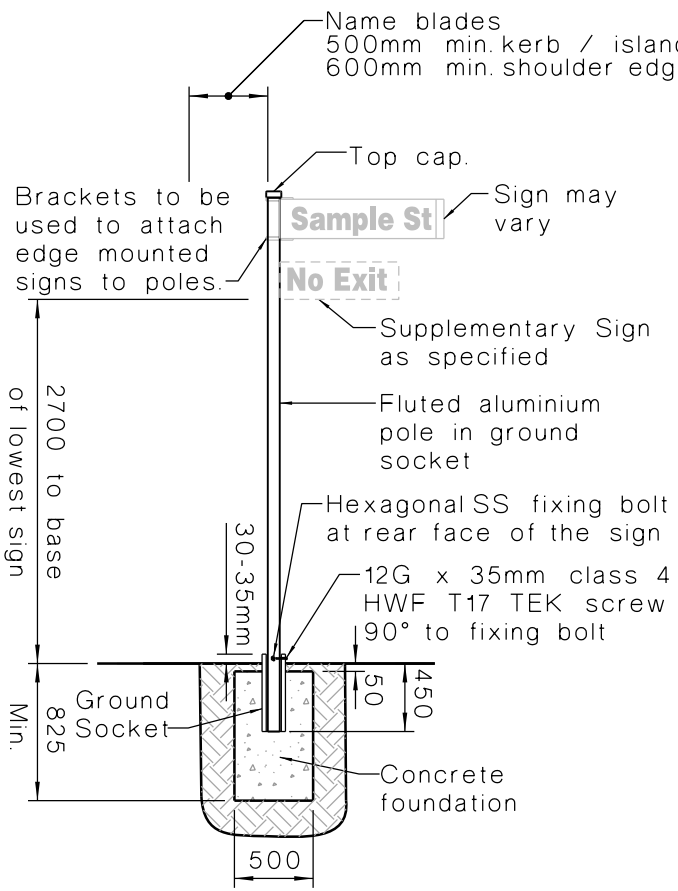
Christchurch City Council

POST STANDARD INSTALLATION DETAIL

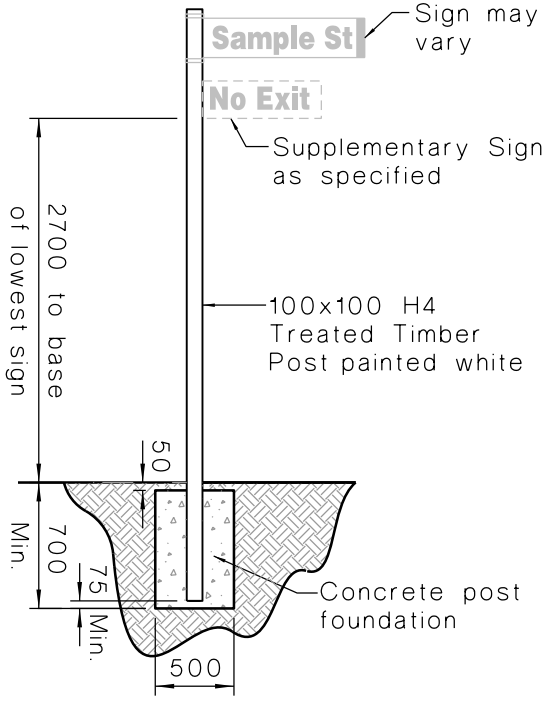
SD647

ISSUE DATE NOV 2022

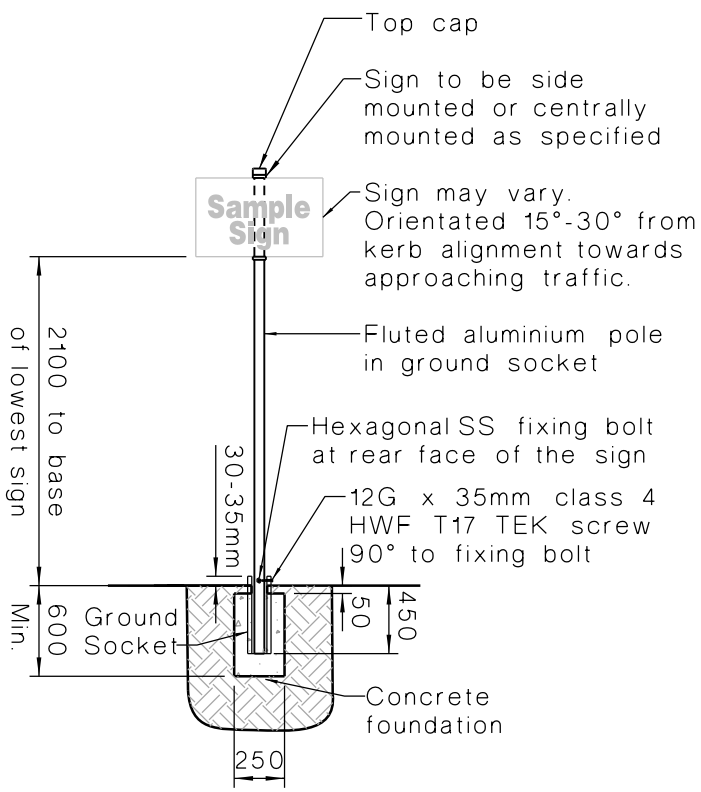
SHEET 1 of 2



FLUTED ALUMINIUM POLE INSTALLATION DETAIL



WOODEN POST INSTALLATION DETAIL

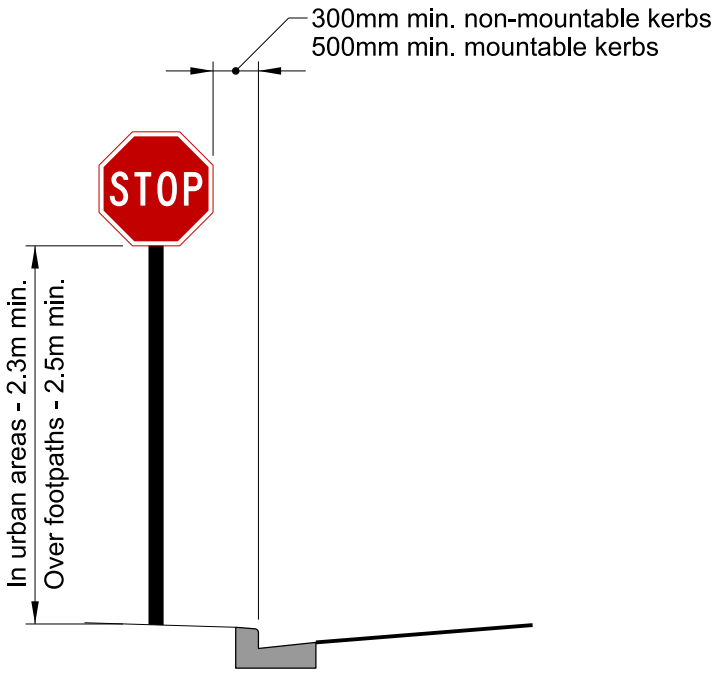


REGULATORY PARKING SIGNS DETAIL

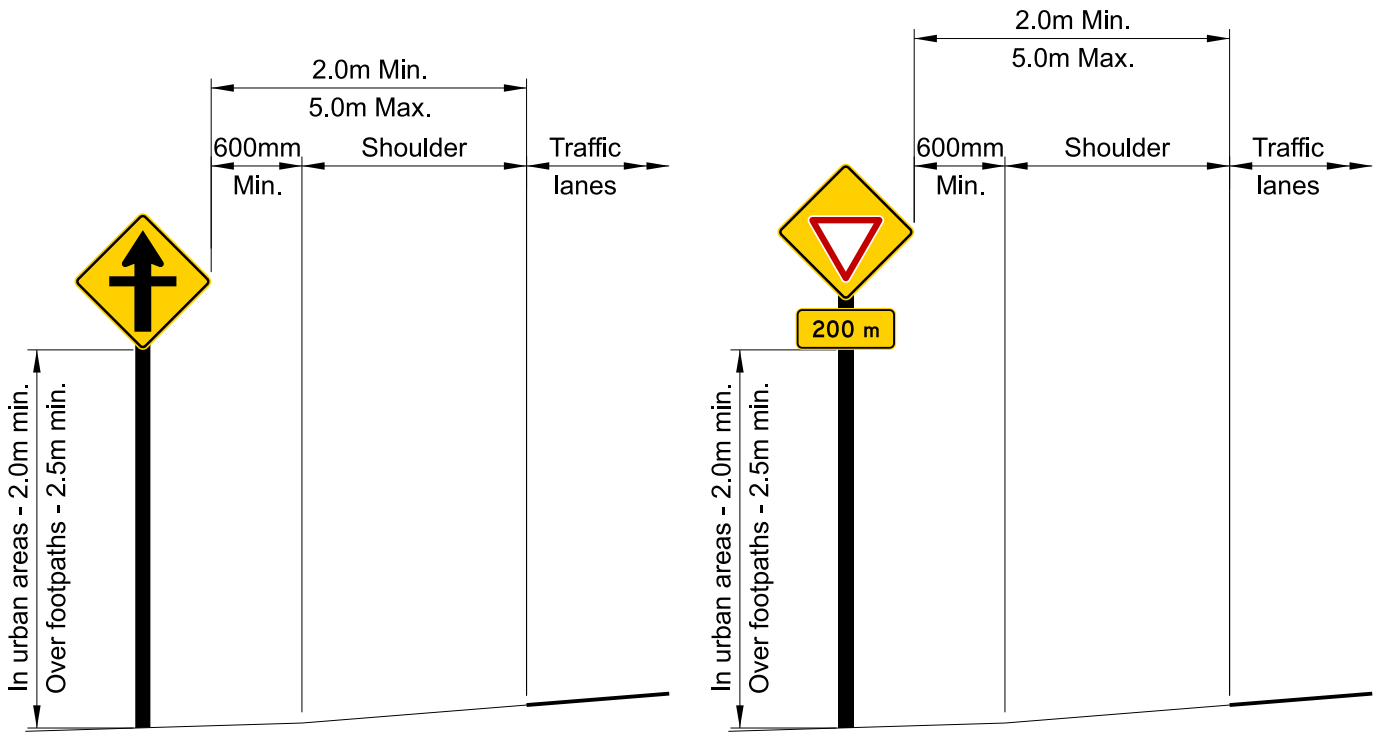
NOTE:

1. All dimensions are to underside of lowest sign unless otherwise stated.
2. Where parking signs exceed 450mm width increase height as specified.
3. Footings are only suitable for signage types shown.
4. Concrete to be 20MPa (batched).

rs1647702a.dgn



REGULATORY & WARNING SIGN
CLEARANCES IN KERBED ROADWAYS



REGULATORY & WARNING SIGN
CLEARANCES IN UN-KERBED ROADWAYS

Christchurch City Council

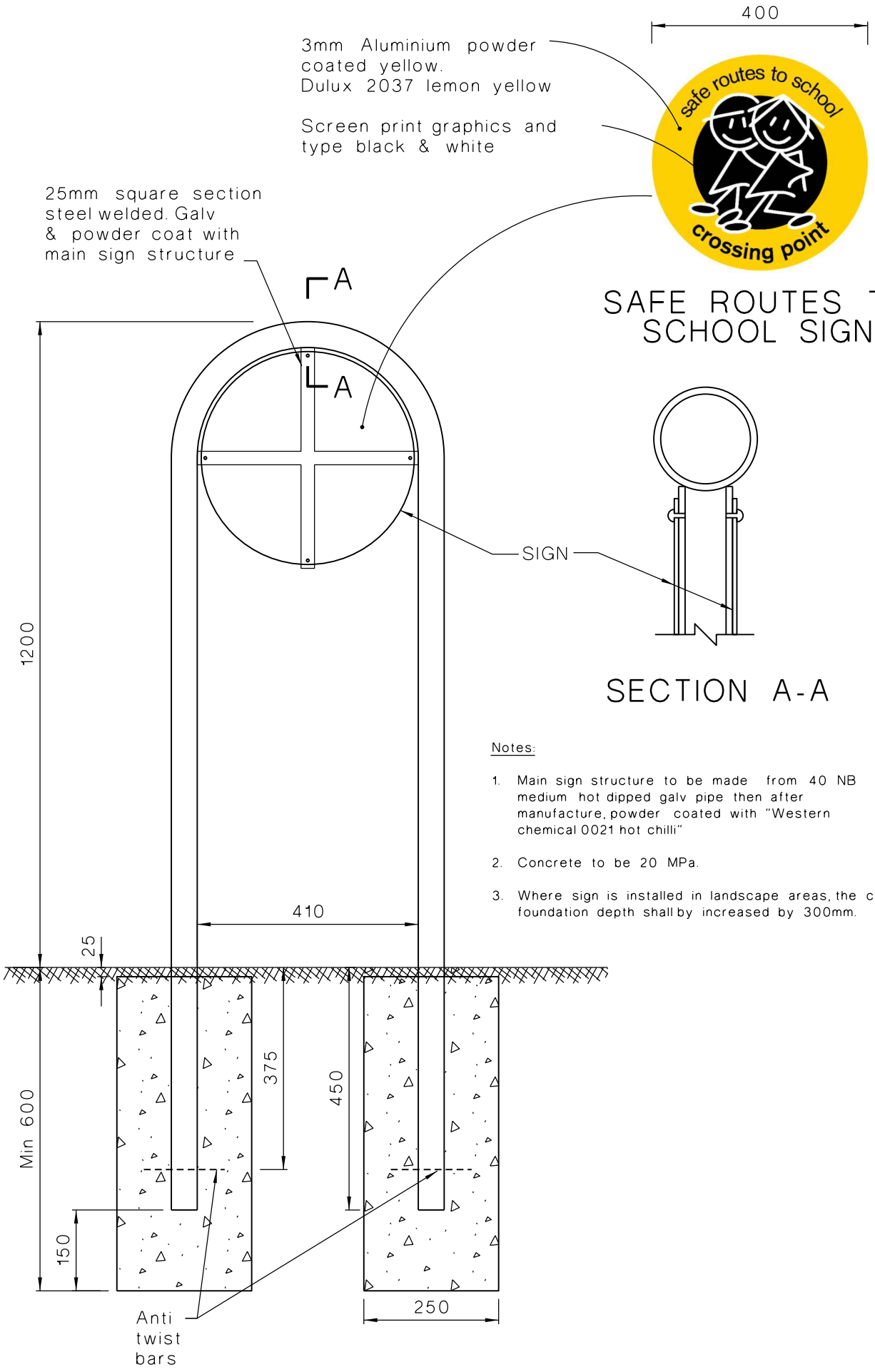
POST SIGNAGE INSTALLATION DETAIL

ISSUE DATE	NOV 2022

SD647

SHEET 2 OF 2

RS064801C



SAFE ROUTES TO SCHOOL SIGN

SECTION A-A

Notes:

1. Main sign structure to be made from 40 NB medium hot dipped galv pipe then after manufacture, powder coated with "Western chemical 0021 hot chilli"
2. Concrete to be 20 MPa.
3. Where sign is installed in landscape areas, the concrete foundation depth shall by increased by 300mm.

Christchurch City Council

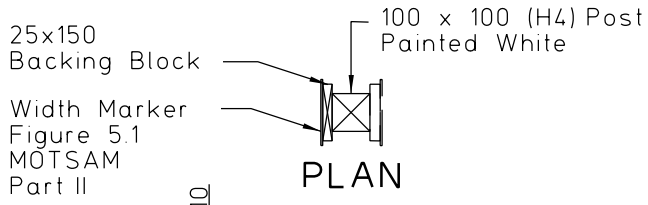
SAFE ROUTES TO SCHOOL RECOMMENDED CROSSING POINTS SIGNAGE

ISSUE DATE	DEC 2009

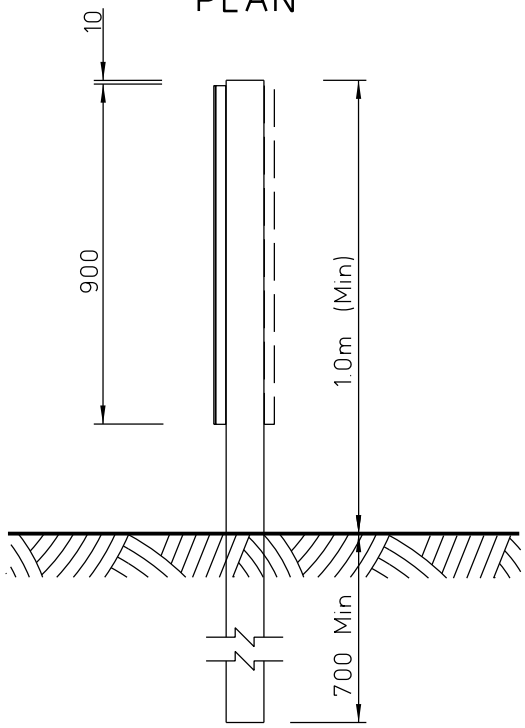
SD648

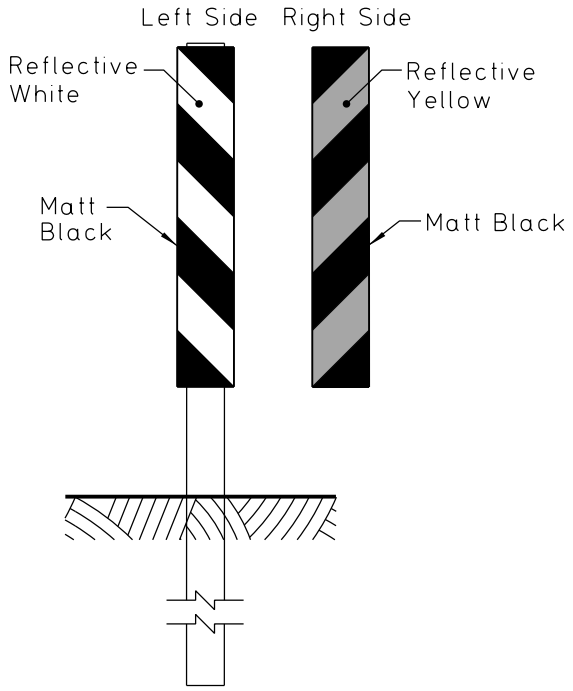
SHEET 1

RS064901E

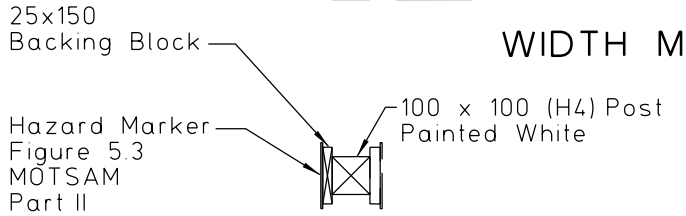


PLAN

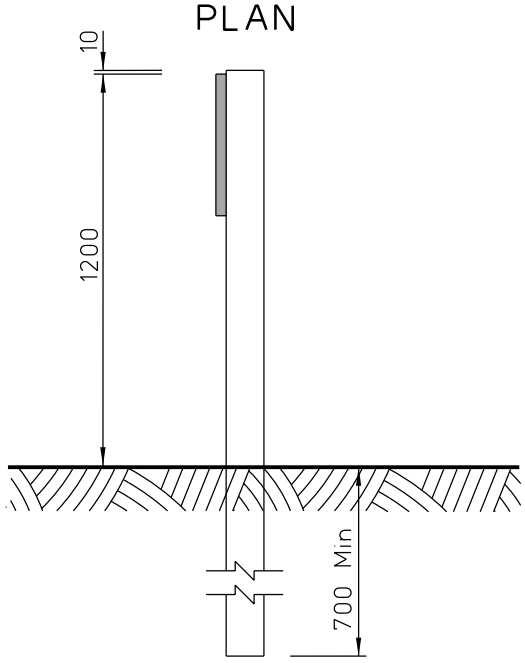


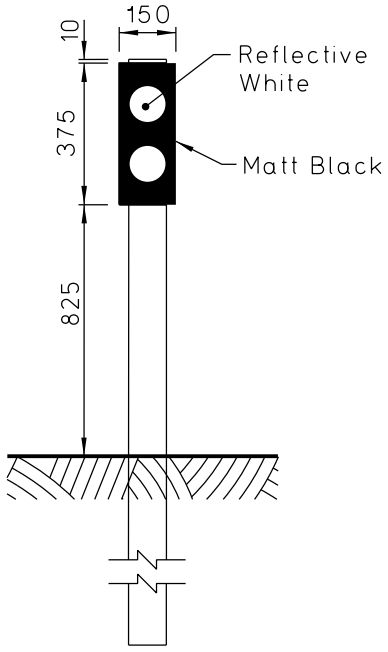


WIDTH MARKER



PLAN





HAZARD MARKER

NOTES:

1. To be white on approach left hand side, and yellow on approach right hand side.
2. Ensure post is founded in solid bearing.
3. To be mounted back-to-back where specified.

NOTES:

1. Ensure post is founded in solid bearing

Christchurch City Council

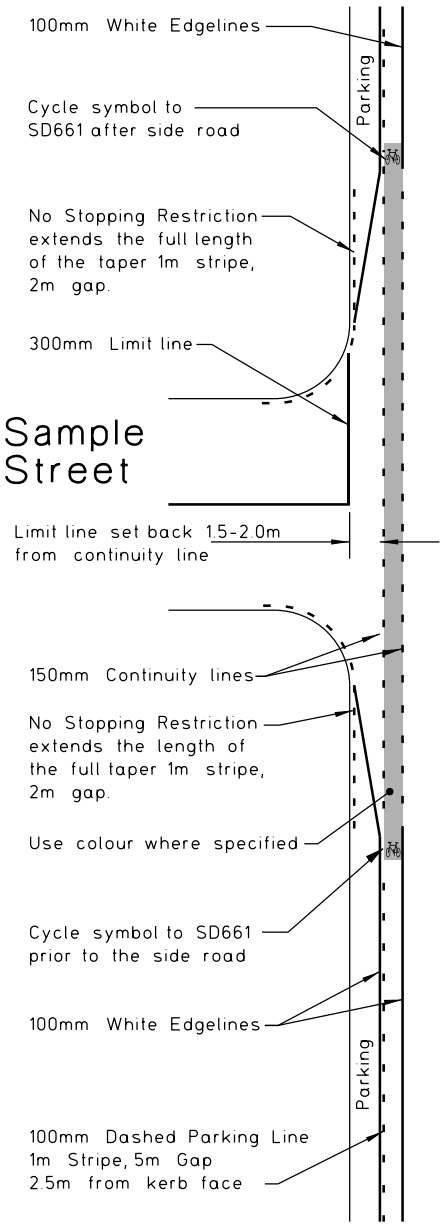
WIDTH MARKER & HAZARD MARKER

ISSUE DATE	OCT 2016

SD649

SHEET 1

RS065001D



NOTES:

1. Absolute minimum of 1.7m for cycle lane next to parking lane. Desired minimum width 1.8m. (For 50 km/hr Speed Limit)
2. Cycle Logos to SD661 in locations as shown. All other mid-block cycle logos evenly spaced with maximum spacing of 100m.

Christchurch City Council

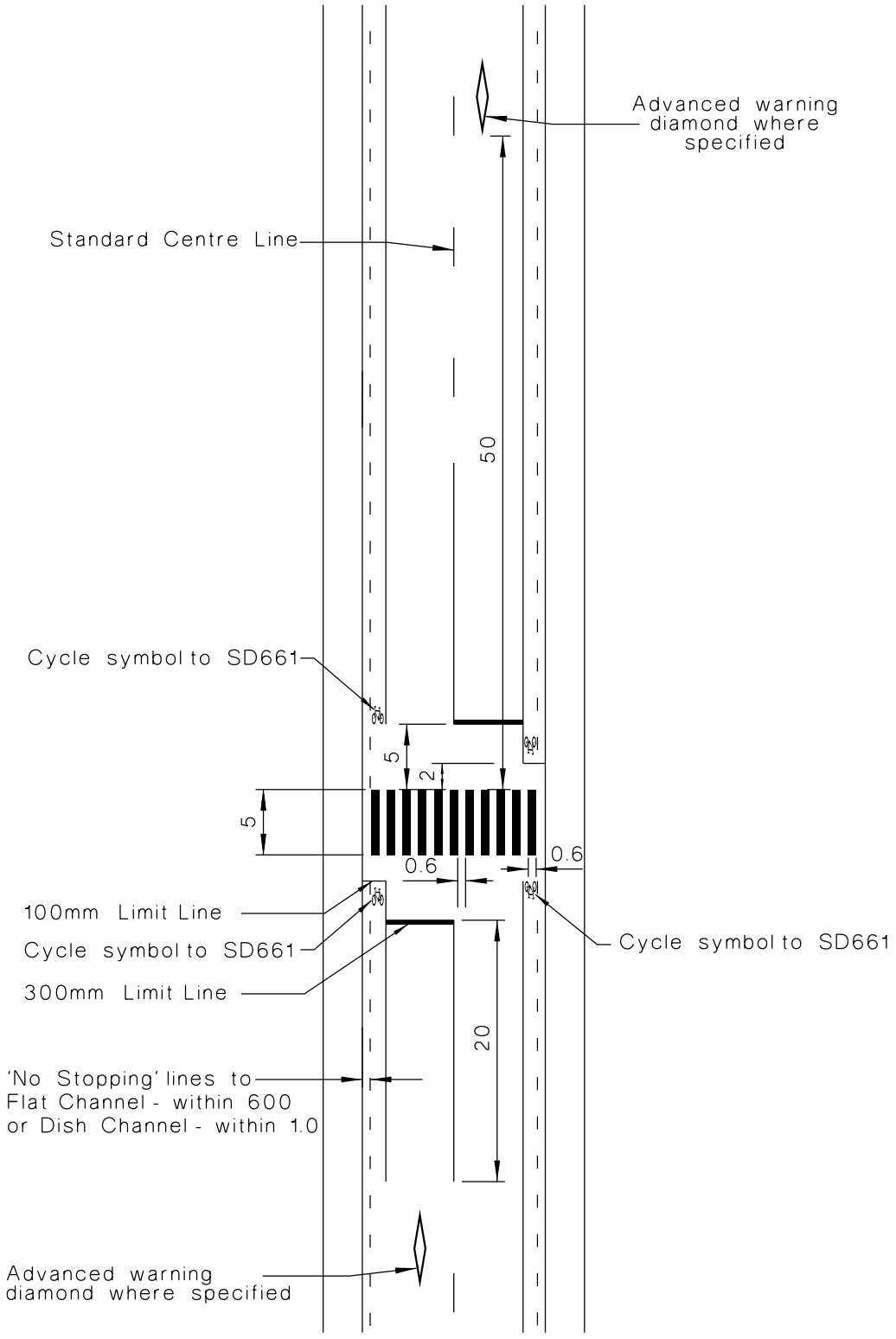
CYCLE LANE AT INTERSECTION WITH EDGE LINES

ISSUE DATE	DEC 2009

SD650

SHEET 1

RS065901F



NOTES:

1. Without kerb build-outs, the minimum length of broken yellow "No Stopping" lines on the approaches to pedestrian crossings is 15m.
2. Christchurch City Council line dimension amendments to the 'Manual of Traffic Signs & Markings' issued by the NZTA.
3. Broken yellow No Stopping line stripes at 2.0 centres, 1.0 x 0.1 wide for lengths over 15m. Pedestrian crossing stripes at 1200 centres 5.0 x 0.6 wide

Christchurch City Council

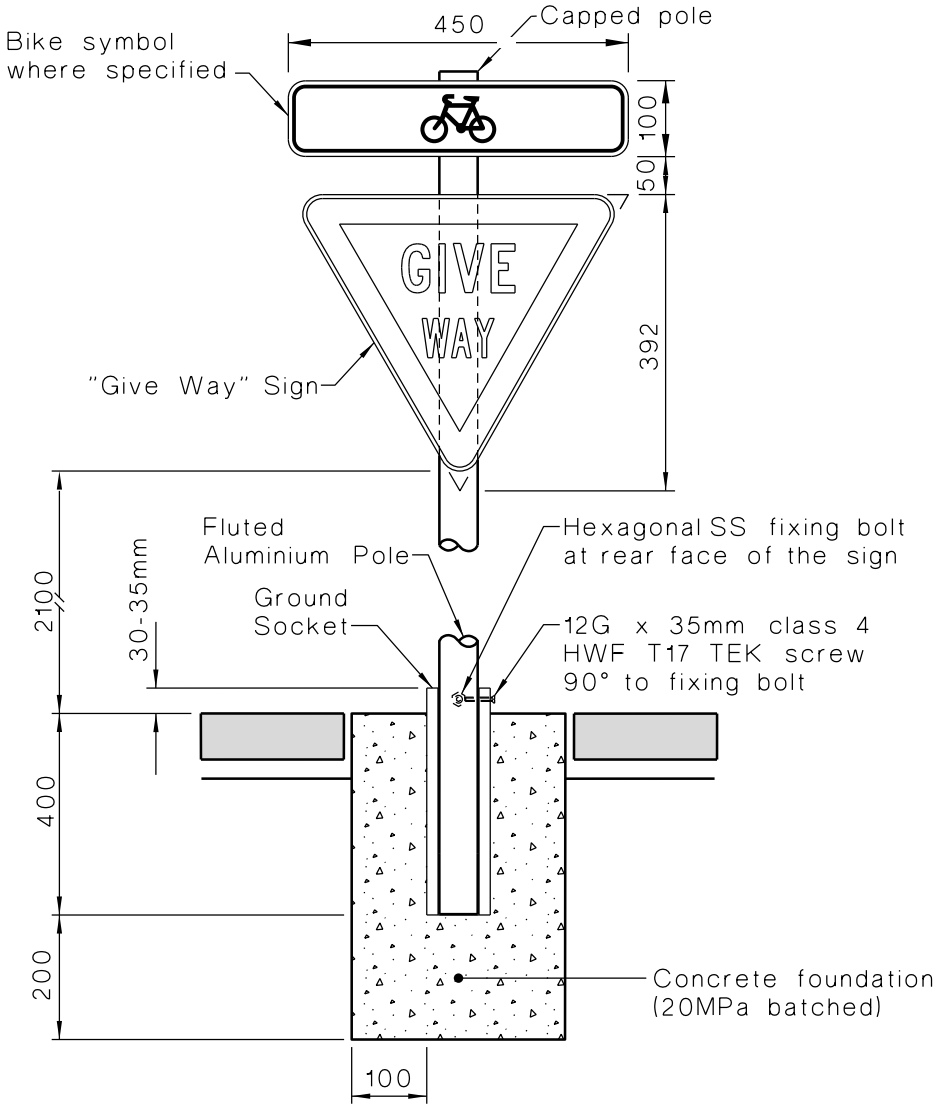
TYPICAL PEDESTRIAN CROSSING ROAD MARKINGS

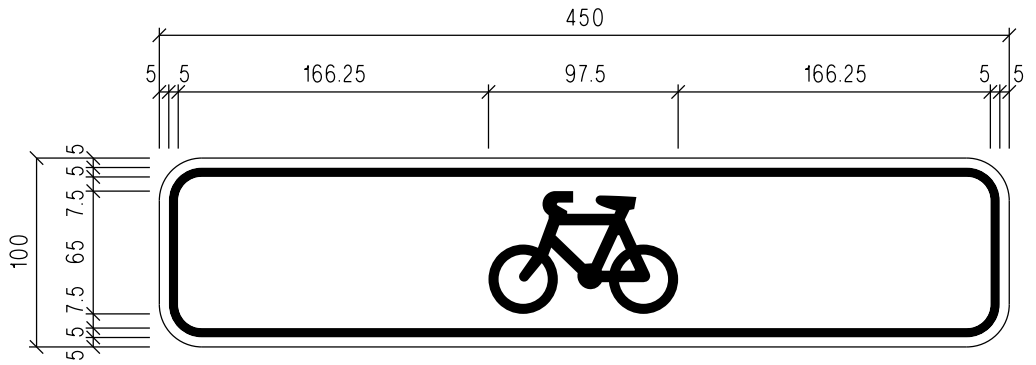
ISSUE DATE	NOV 2022

SD659

SHEET 1

RS066001E





SUPPLEMENTARY SIGN LAYOUT

Christchurch City Council

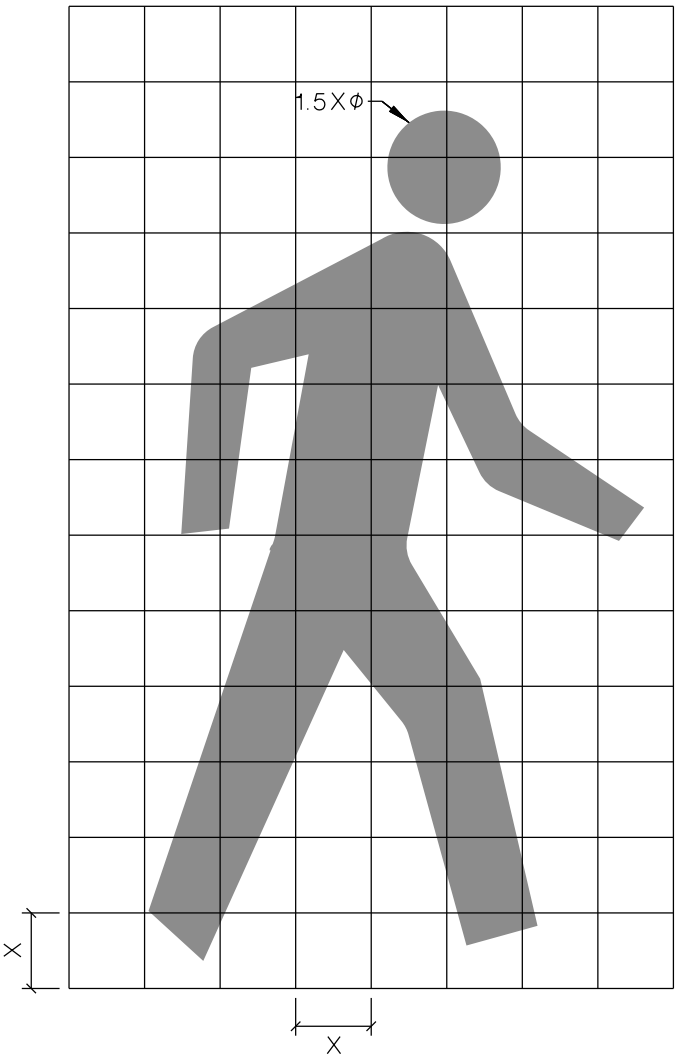
CYCLE GIVEWAY & SUPPLEMENTARY SIGN

ISSUE DATE	NOV 2022

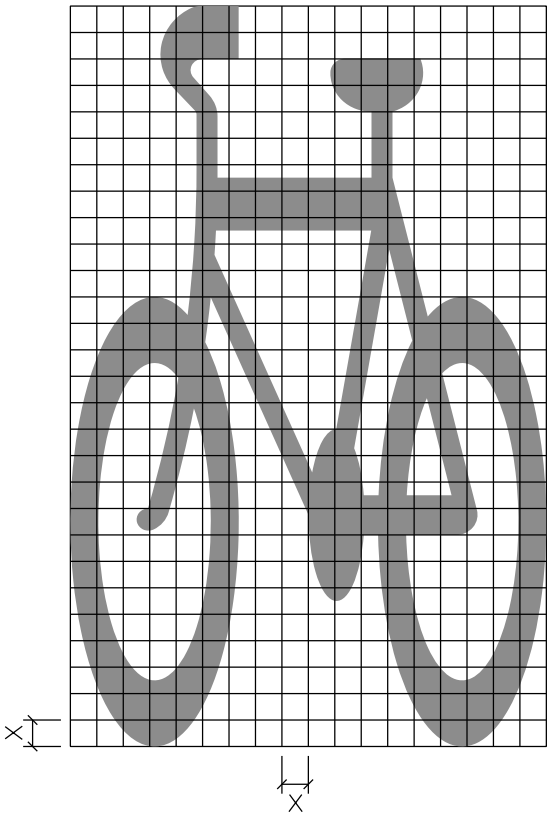
SD660

SHEET 1

RS066101D



PEDESTRIAN SYMBOL



CYCLE SYMBOL

Spacing	
Intersections	As specified
Midblock - Typical	50m
Midblock - Low Conflict	100m

NOTE:

1. Road markings to be reflectorised white.

2. This is the Traffic Control Devices Manual Cycle Symbol.
   On shared paths use a scale factor of X=20mm, resulting in a cycle logo 360mm wide & 560mm high.
   On cycleways use a scale factor of X=35mm, resulting in a cycle logo 630mm wide & 980mm high.
   On roads use a scale factor of X=50mm, resulting in a cycle logo 900mm wide & 1400mm high.

Christchurch City Council

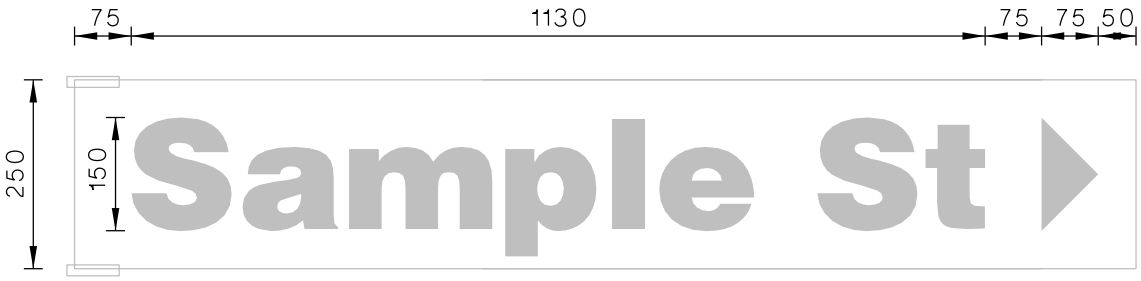
PEDESTRIAN & CYCLE SYMBOLS

ISSUE DATE | OCT 2016

SD661

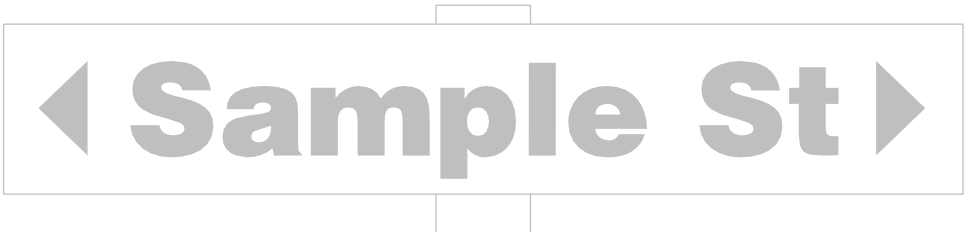
SHEET 1

RS066201D

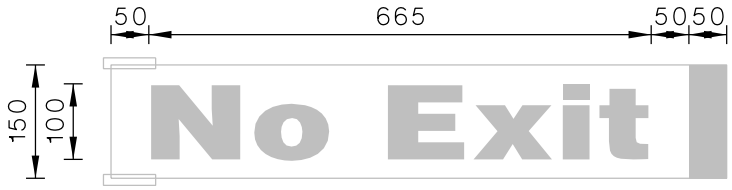


MAJOR ARTERIAL ROADS
(End Mounted)

OTHER SIGNS
(End Mounted)



(Central Mounted)



SUPPLEMENTARY SIGNS
(End Mounted)

NOTES

1. Lettering dimension applies to "Sample St" only.
   Dimension will increase or decrease with greater or lesser number of letters in street name.
2. Font for signage lettering to be 'Modified Series E'.
3. Central mounted Street Name Sign letter dimensions and arrows as per end mounted Street Name Signs.
4. Refer to TCDM part 2 clause 7.3 table 7.6 for required visibility.

Christchurch City Council

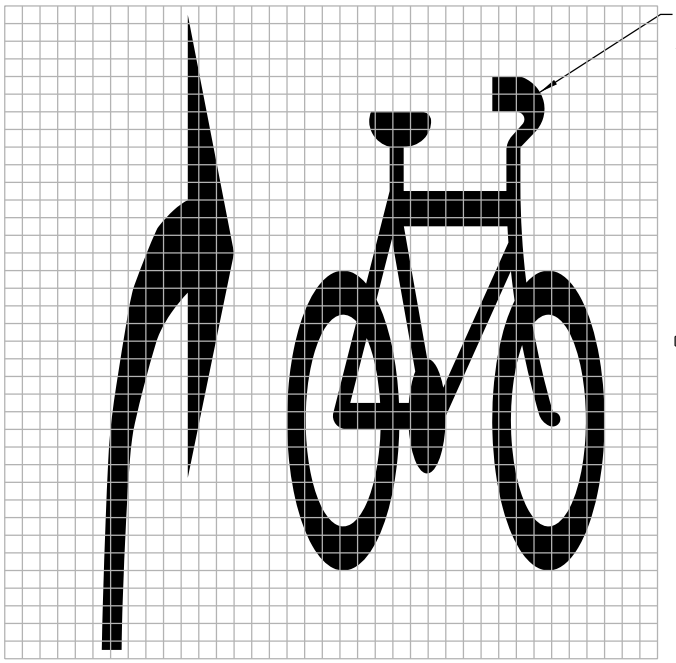
STREET NAME BLADES

ISSUE DATE	NOV 2022

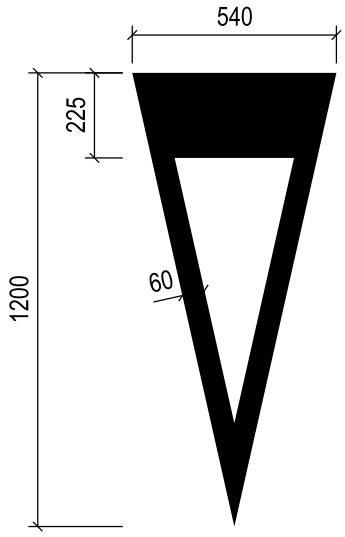
SD662

SHEET 1

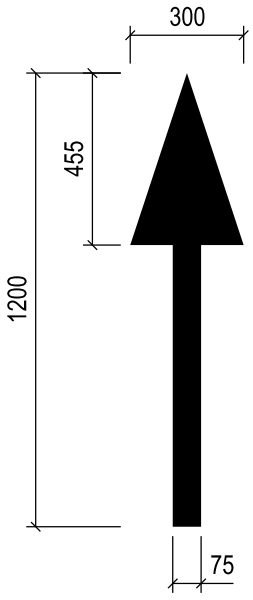
RS166301B



HOOK TURN DETAIL



CYCLEWAY
GIVE WAY



CYCLEWAY
ARROW

NOTES:

1. Hook turn box sides to be at least 1.5m long.
2. Hook turn stencil to MOTSAM fig. 3.35a with 'x'=35mm

Christchurch City Council

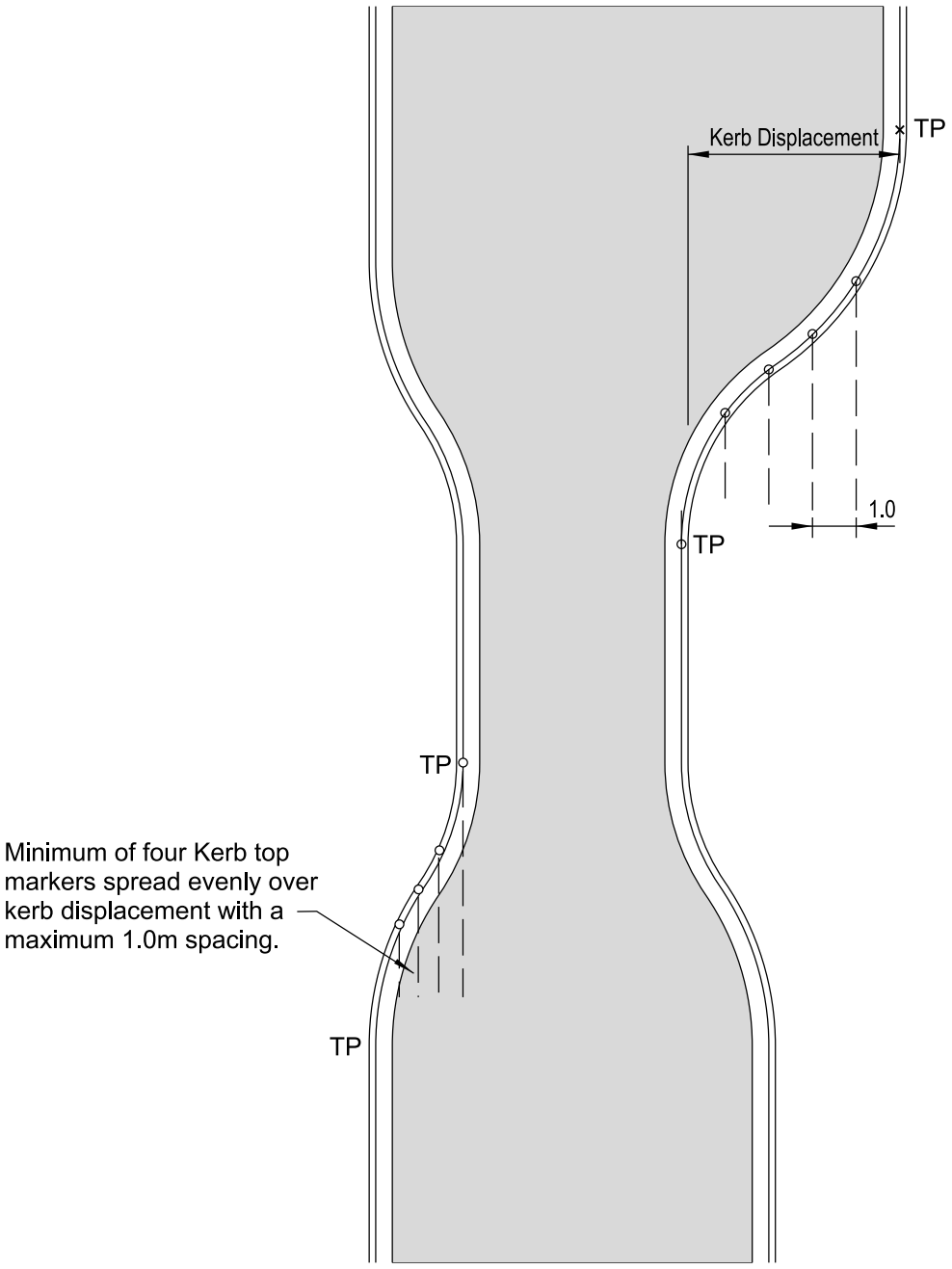
HOOK TURN DETAIL & PATHWAYS CYCLE SYMBOLS

ISSUE DATE	DEC 2014

SD663

SHEET 1 OF 1

RS066401A



Christchurch City Council

KERB TOP MARKERS

ISSUE DATE	DEC 2009

SD664

SHEET 1