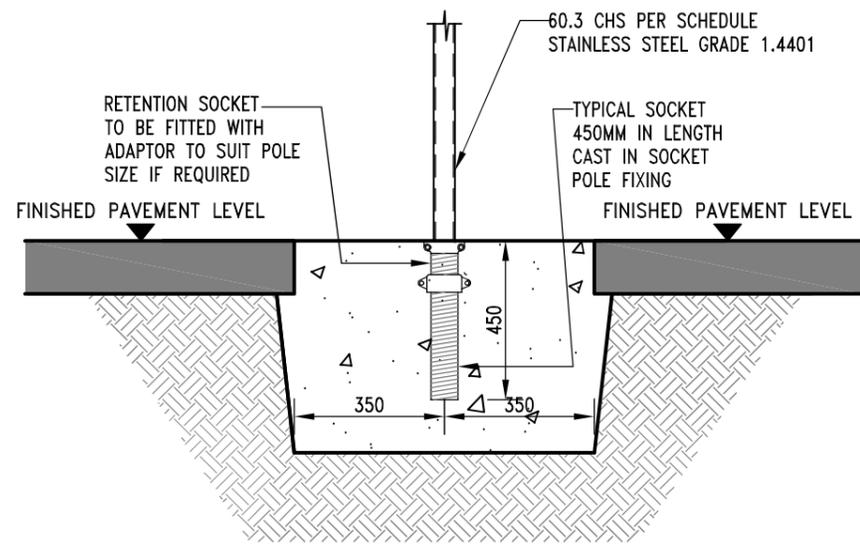
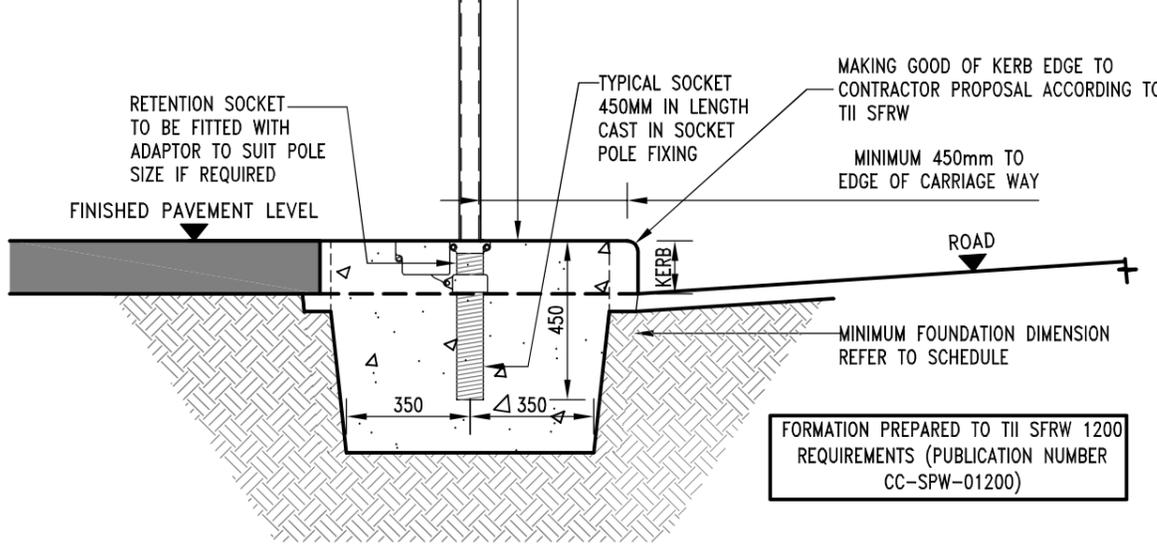


**Stainless Steel (Grade 1.4401)**

Type	B(m)	D(m)	H(m)	Foundation Dimension(m)	60.3 x 3.2
E	0.45	0.98	2.50	0.70 x 0.70 x 0.6 dp	<input checked="" type="checkbox"/>

**POLE AND FOUNDATION DESIGN**



**Concrete Grade**

XC4/XD3/XS1  
XF4 to EN 206.1  
Min. Cement = 400kg/m<sup>3</sup>  
Min. Strength = C40/50  
Max. W/C = 0.45

**NOTE:**

-WHERE FOOTPATH CONSISTS OF PAVING OR COBBLE SETS POST FOUNDATION TO BE RECESSED TO ALLOW FOR REINSTATEMENT OF FINISH (MAX. 100mm)

**SIDE ELEV OF SIGN POLE**  
SCALE 1:20

**FRONT ELEV OF SIGN POLE (TYPE E)**  
SCALE 1:20

**FOR TENDER**  
NOT FOR CONSTRUCTION

- NOTES**
- For setting out refer to Architect's drawings.
  - This drawing to be read in conjunction with all other Architectural and Engineering drawings and all other relevant drawings and Specifications. DO NOT SCALE THIS DRAWING. Use figured dimensions only.
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  - Flag pole and securing plate to be grade 316 stainless steel as per specification.

Rev. No.	Date	REVISION NOTE	Des. By	Chkd. By
A	27-08-14	UPDATED TO NTA COMMENTS	BP	MH
B	02-09-14	UPDATED TO NTA COMMENTS	P.D	MH
C	11-07-18	UPDATED TO NTA COMMENTS	SMG	KA

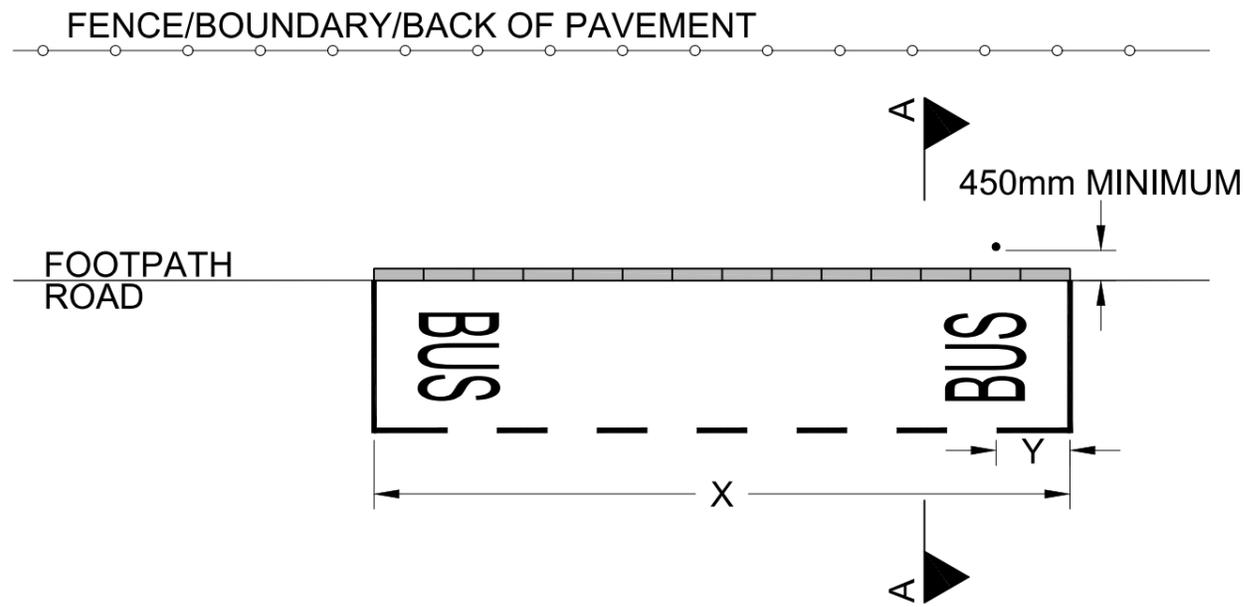
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9 Prussia St.,  
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TEL +353 (0)1 8682000  
FAX +353 (0)1 8682100  
e: ocsc@ocsc.ie  
w: www.ocsc.ie

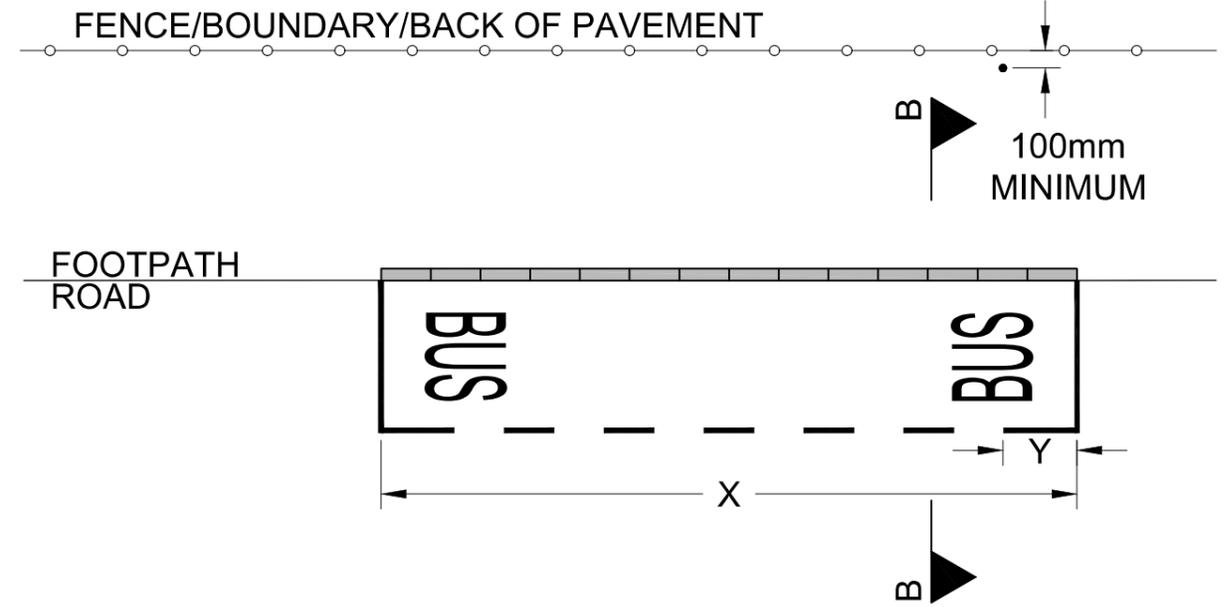
ISO 9001:2008 QUALITY  
ISO 14001:2004 ENVIRONMENTAL  
OHSAS 18001:2007 HEALTH & SAFETY

Client	NATIONAL TRANSPORT AUTHORITY		
Project	BUS STOPS POLE & BASE DETAILS REPORT NO. 3		
Title	GENERAL ARRANGEMENT OF BUS STOP POLE & FOUNDATION TYPE E		
Des. No.	N169 -009	Revision	C
Date	25/08/14	Scale	AS SHOWN @ A3

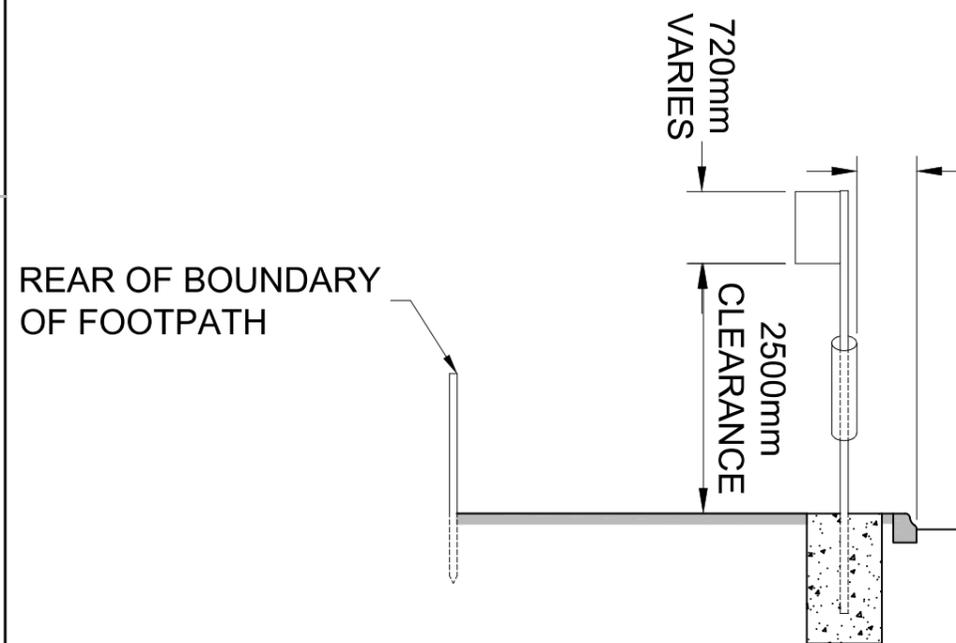
Office Locations | Dublin (Head Office) | London | Cork | Galway | Belfast | Warsaw | Bucharest | Moscow | Abu Dhabi | Libya |



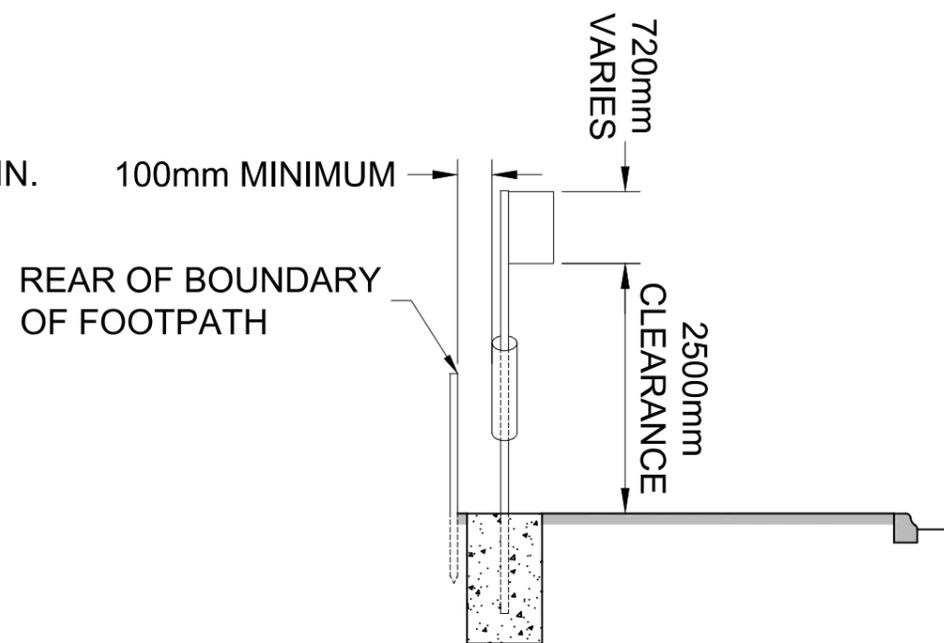
**LAYOUT 1: BUS STOP POLE AT BACK OF KERB**



**LAYOUT 2: BUS STOP POLE AT BACK OF FOOTPATH**



**SECTION A-A**



**SECTION B-B**

**GENERAL NOTES:**

- LAYOUT 1 TO BE USED WHERE POSSIBLE, ALTERNATIVE LAYOUT 2 TO BE USED WHERE LAYOUT 1 IS NOT ACHIEVABLE.
- NO PART OF THE BUS STOP POLE INCLUDING HEADPLATE & CAROUSEL SHALL BE CLOSER THAN 450mm FROM THE FRONT FACE OF THE KERB.
- THE UNDERSIDE OF THE POLE HEADPLATE SHALL NOT BE WITHIN 2500mm OF THE FOOTPATH LEVEL.
- WHERE LAYOUT 2 IS USED, THE POLE SHALL BE POSITIONED SO THAT THE CAROUSEL IS FREE TO ROTATE 360° ON THE POLE & A MINIMUM CLEARANCE OF 100mm IS PROVIDED BETWEEN THE CAROUSEL & ANY FIXED FEATURE OR BOUNDARY WALL.
- THIS DRAWING IS TO BE READ IN CONJUNCTION WITH THE WORKS REQUIREMENTS & SPECIFICATION.
- DIMENSIONS "X" AND "Y" WILL BE BASED ON SITE CONTEXT AND BUS TYPE AS PER NTA BUS STOP GUIDANCE.



National Transport Authority  
Design Section  
Dún Scéine  
Harcourt Lane  
Dublin 2

Údarás Náisiúnta Iompair  
An Rannóg Deartha  
Dún Scéine  
Lána Fhearchair  
Baile Átha Cliath 2

T. +353 1 881 8300 (Main switch)

Title

**BUS STOP - NEW POLE LOCATION  
TYPICAL DETAIL**

JG	GR	F'OD	JULY 2019
Drn	Chk'd	App'd	Date of Issue

Documentation Set

Drawing File Number

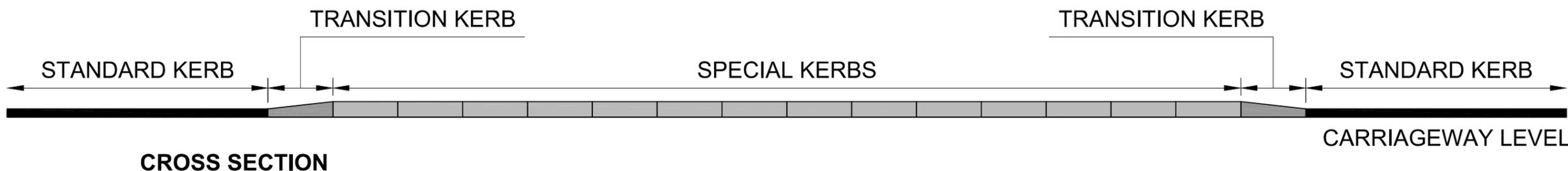
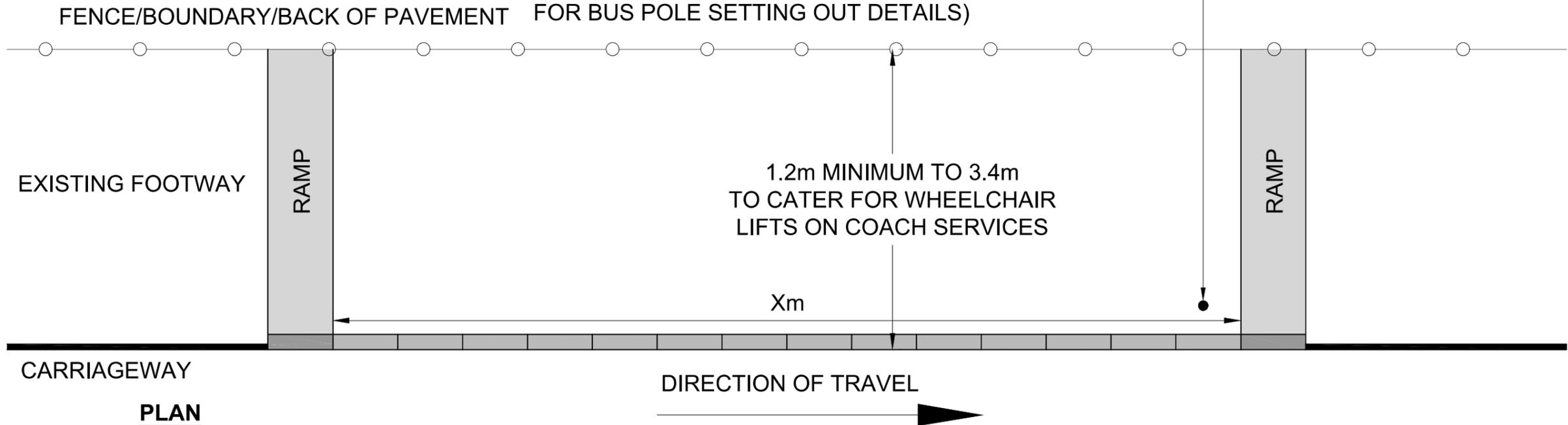
Rev

**STANDARDS**

**NTA-SCD-4005**

**01**

BUS STOP POLE (REFER TO STANDARD DETAIL DRAWING  
NTA-0000\_SCD\_ZZ-00\_XX\_0000-DR-KK-0003  
FOR BUS POLE SETTING OUT DETAILS)



TYPICAL HARDSTANDING LENGTHS FOR VARIOUS BUS STOP ARRANGEMENTS

LOCATION	BUS STOP TYPE	LENGTH OF 160mm HIGH SPECIAL KERBING (Xm)
URBAN/CITY	STANDARD BUS STOP	14m
	BUS STOP IN LAYBY	21m
RURAL	BUS STOP BUILD OUT - SHORT	3m
	BUS STOP BUILD OUT - LONG	12m

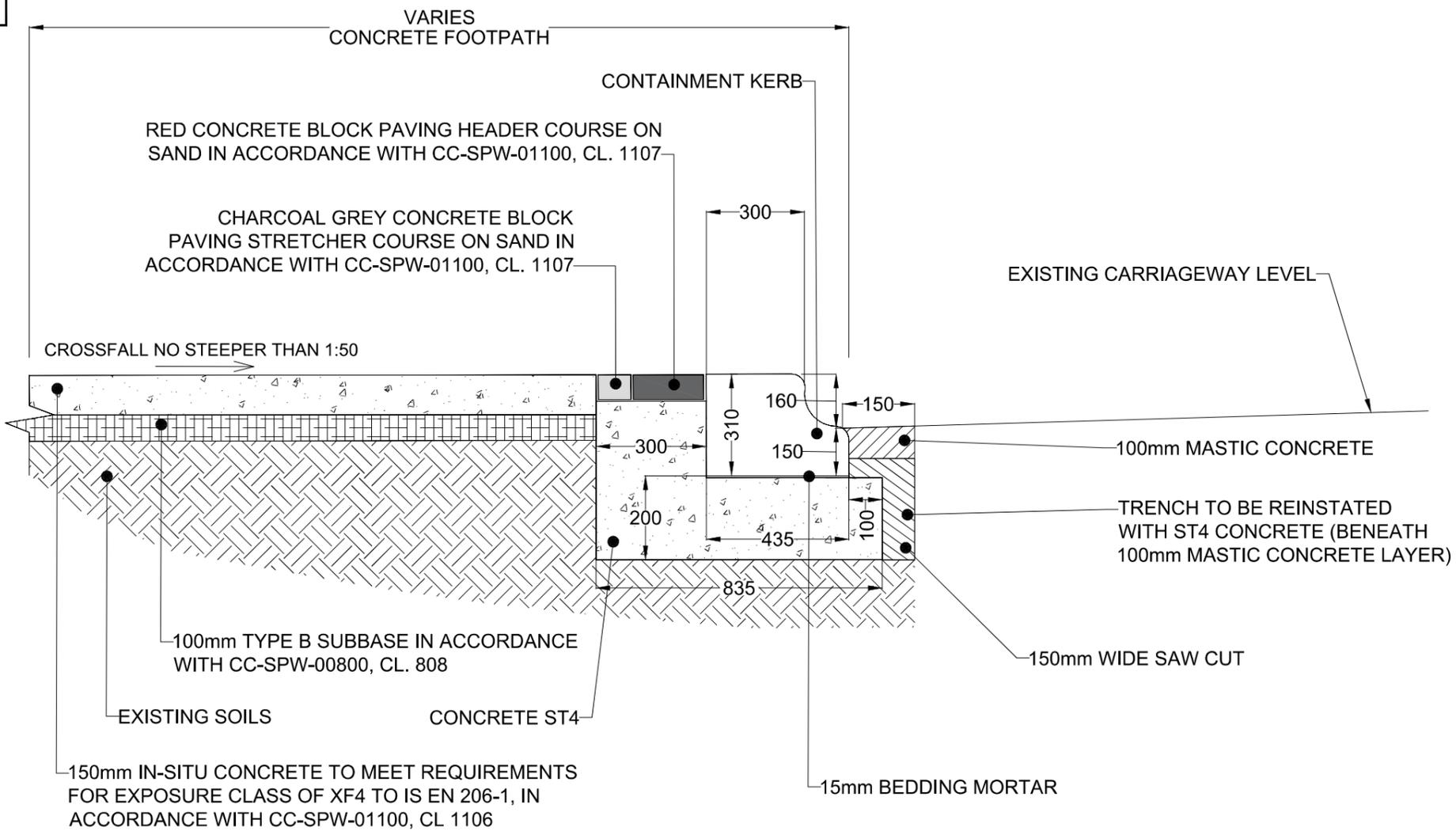
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1. THIS DRAWING IS TO BE READ IN CONJUNCTION WITH THE WORKS REQUIREMENTS & SPECIFICATION.



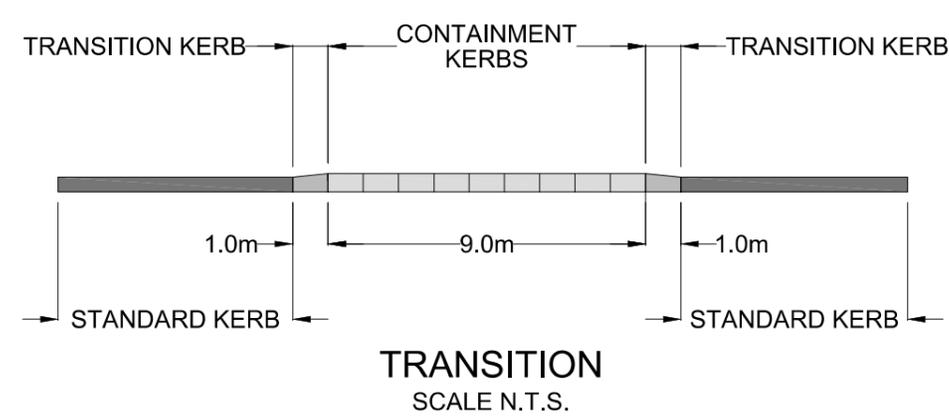
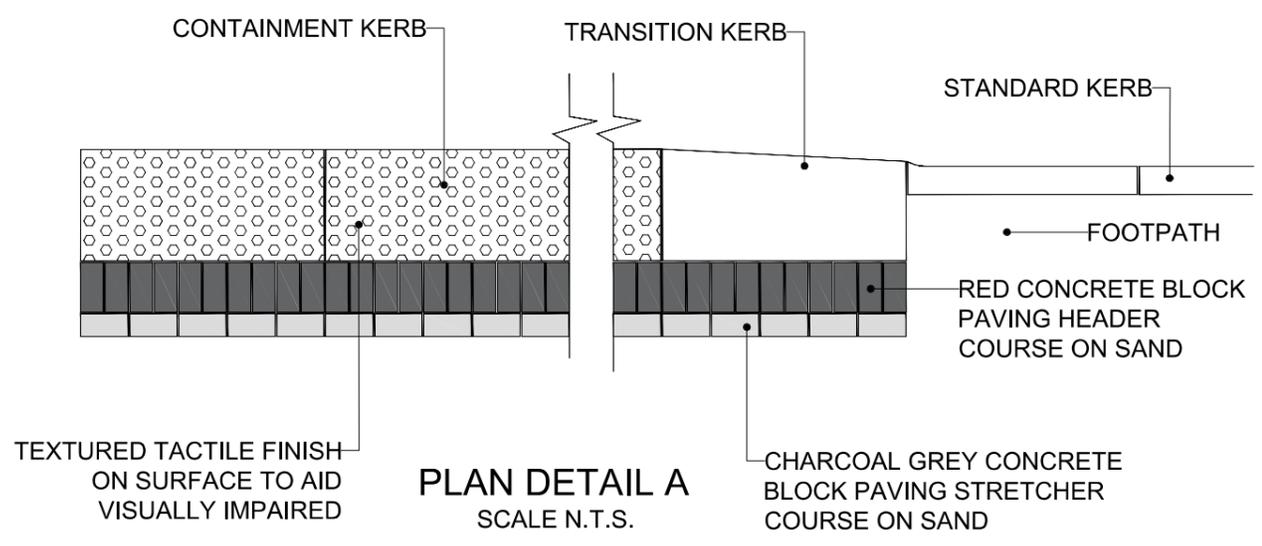
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Harcourt Lane  
Dublin 2  
T. +353 1 881 8300 (Main switch)

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An Rannóg Deartha  
Dún Scéine  
Lána Fhearchair  
Baile Átha Cliath 2

PUBLICATION TITLE		
TYPICAL BUS STOP HARDSTANDING DETAIL - NEW BUS STOP		
DOCUMENTATION SET	PUBLICATION DATE	PUBLICATION NUMBER
STANDARDS	JULY 2018	NTA-0000-SCD_ZZ-00_XX-0000-DR-KK-0006



- NOTE:**
1. NOT DRAWN TO SCALE.
  2. ALL DIMENSIONS ARE IN MILLIMETRES UNLESS SHOWN OTHERWISE.
  3. ALL SUBBASE BACKFILL MATERIAL SHALL COMPLY WITH CLAUSE 808 OF CC-SPW-00800.
  4. PRECAST KERBS SHALL BE LAID AND LEVELLED IN ACCORDANCE WITH B.S. 7533 : PART 4. FOR ACTUAL KERB TYPES SEE LAYOUT DRAWINGS.
  5. CONTAINMENT KERBS TO BE DRY BUTT JOINTED.
  6. ALL CLAUSE REFERENCES RELATE TO TII STANDARD CONSTRUCTION DETAILS OR SPECIFICATION FOR WORKS.
  7. THE TRENCH SHOULD BE LOCATED SO AS TO AVOID SURFACE JOINTS BEING LOCATED IN THE WHEEL TRACK AS FAR AS REASONABLY PRACTICABLE.
  8. THERE SHALL BE A 1m LONG TRANSITION KERB AT EACH END OF THE CONTAINMENT KERB.
  9. JOINTS ARE TO BE CONSTRUCTED IN ACCORDANCE WITH SERIES 700 OF TII SPECIFICATIONS.



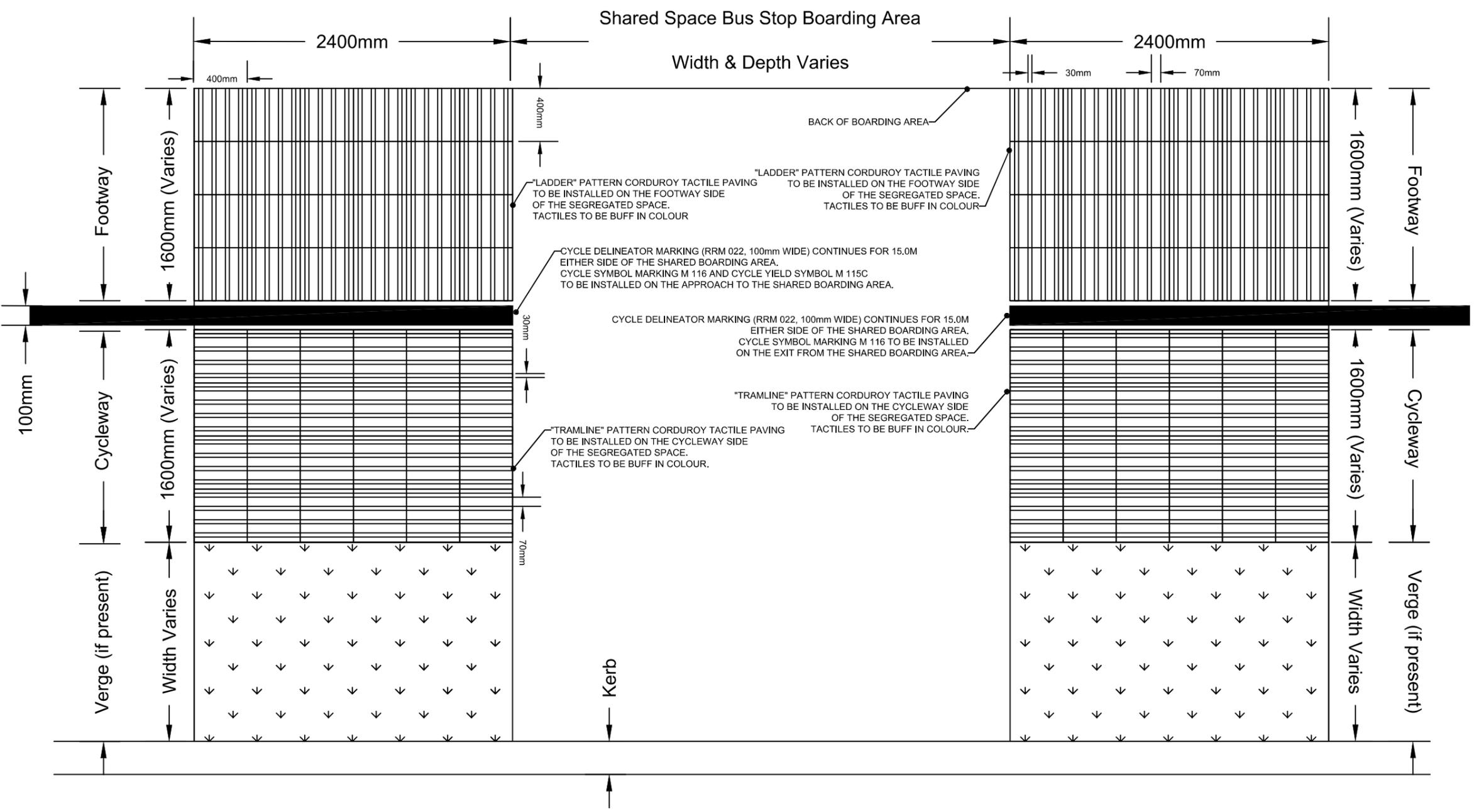
**TYPICAL CARRIAGEWAY REINSTATEMENT AND FOOTPATH CONSTRUCTION WITH CONTAINMENT KERB**  
SCALE N.T.S.

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<p>Client: <b>NTA</b> Údarás Náisiúnta Iompair National Transport Authority</p>						
<p>Project: <b>National Transport Authority Network Re-Design</b></p>						
<p>Drawing title: <b>TYPICAL CARRIAGEWAY REINSTATEMENT AND FOOTPATH CONSTRUCTION WITH CONTAINMENT KERB</b></p>						
<p>Drawing status: <b>For Construction</b></p>						
<p>Scale: <b>NOT TO SCALE</b>   <b>DO NOT SCALE</b></p>						
<p>Jacobs No: 32110400</p>						
<p>Client no.:</p>						
<p>Drawing number: 32110400/BSK/002</p>						<p>Rev: 0</p>
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IGBSSR+FL003Projects\_Progressions\_Traffic32110400 - NTA Bus Stop Framework 2019-2022206\_TPF-069-02 N4 & N6 Bus Stops15 Drawings & Reports/Containment Kerb Standard Detail - 001D.dwg - 23/04/2021 09:24:29 - sheet 2 - R6073219

DIRECTION OF TRAVEL



- NOTE:**
1. NOT DRAWN TO SCALE.
  2. ALL DIMENSIONS ARE IN MILLIMETRES UNLESS SHOWN OTHERWISE.
  3. TACTILE PAVING TO BE IN ACCORDANCE WITH TII PUBLICATION - 'SPECIFICATION FOR ROAD WORKS SERIES 700 - ROAD PAVEMENT - GENERAL CC-SPW-00700' AND 'TECHNICAL GUIDANCE DOCUMENT M - ACCESS AND USE'.
  4. TACTILE PACING TO BE INSTALLED TO BE INSTALLED IN ACCORDANCE WITH THE DETR 'GUIDANCE ON THE USE OF TACTILE PAVING SURFACES' DOCUMENT.
  5. ALL TACTILE PAVING IS TO BE INSTALLED IN BUFF COLOUR.
  6. THE PROFILE OF THE TACTILE SURFACE COMPRISES A SERIES OF RAISED, FLAT-TOPPED BARS, EACH 5mm (+/-0.5mm) HIGH, 30mm WIDE, AND SPACED 70mm APART.
  7. IT IS IMPORTANT TO MONITOR THE CONDITION OF THE TACTILE SURFACE AND TO PLAN FOR REPLACEMENT AS PART OF MAINTENANCE PROGRAMMES. THE PROFILE OF THE TACTILE SURFACE, AS DESCRIBED ABOVE, IS CRUCIAL TO ITS EFFECTIVENESS.
  8. AT 4.5mm (THE LOWER TOLERANCE) THE SURFACE WILL STILL BE PERFORMING. IF THE BARS FALL BELOW THAT HEIGHT THE DETECTABILITY OF THE SURFACE WILL BE REDUCED AND WILL ULTIMATELY BE UNDETECTABLE AND SHALL THEREFORE REQUIRE MAINTENANCE.

0	15/04/2021	For Construction	OW	EK	CM	CM
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Client  
**NTA**  
Udarás Náisiúnta Iompair  
National Transport Authority

Project  
National Transport Authority  
Network Re-Design

Drawing title  
CORDUROY TACTILE PAVING  
STANDARD INSTALLATION  
DETAIL DRAWING

Drawing status	For Construction	
Scale	NOT TO SCALE	DO NOT SCALE
Jacobs No.	32110401	
Client no.		

Drawing number	32110401/CTP/001	Rev	0
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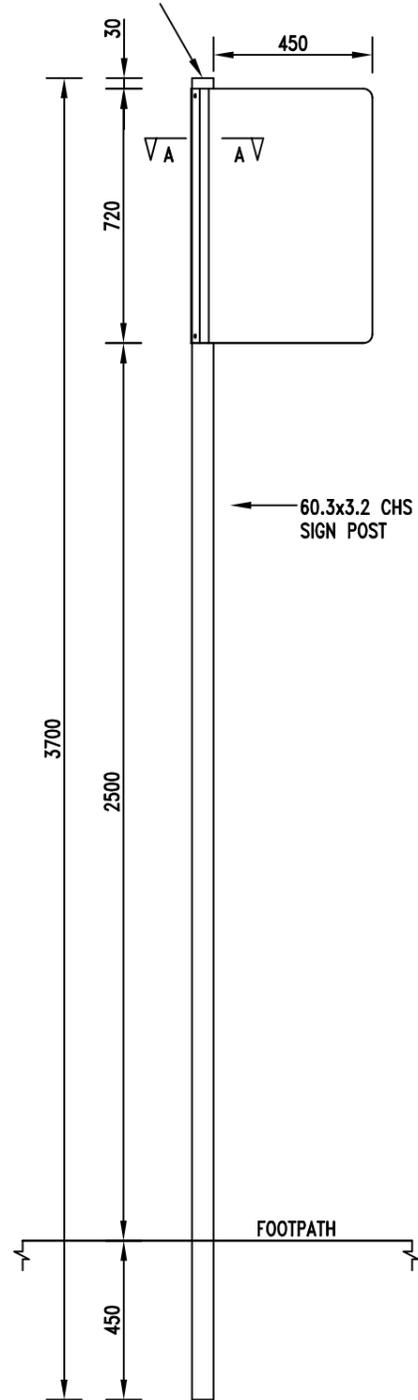
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**TYPICAL INSTALLATION OF CORDUROY TACTILE PAVING AT THE ENTRY TO AND EXIT FROM SHARED BOARDING AREAS AT THE LOCATIONS OF BUS STOPS**  
SCALE N.T.S.

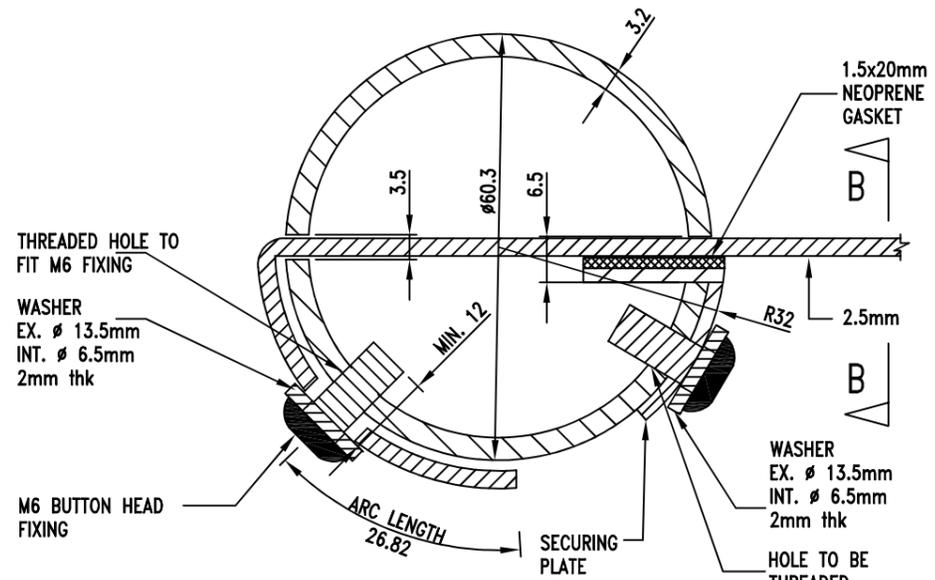
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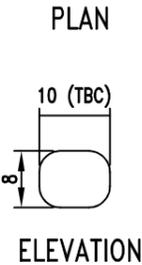
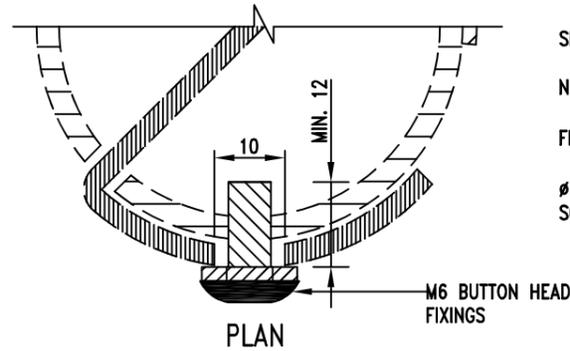
TOP OF POLE TO BE FULLY SEALED WITH A WELDED CIRCULAR STAINLESS STEEL STOP END PLATE



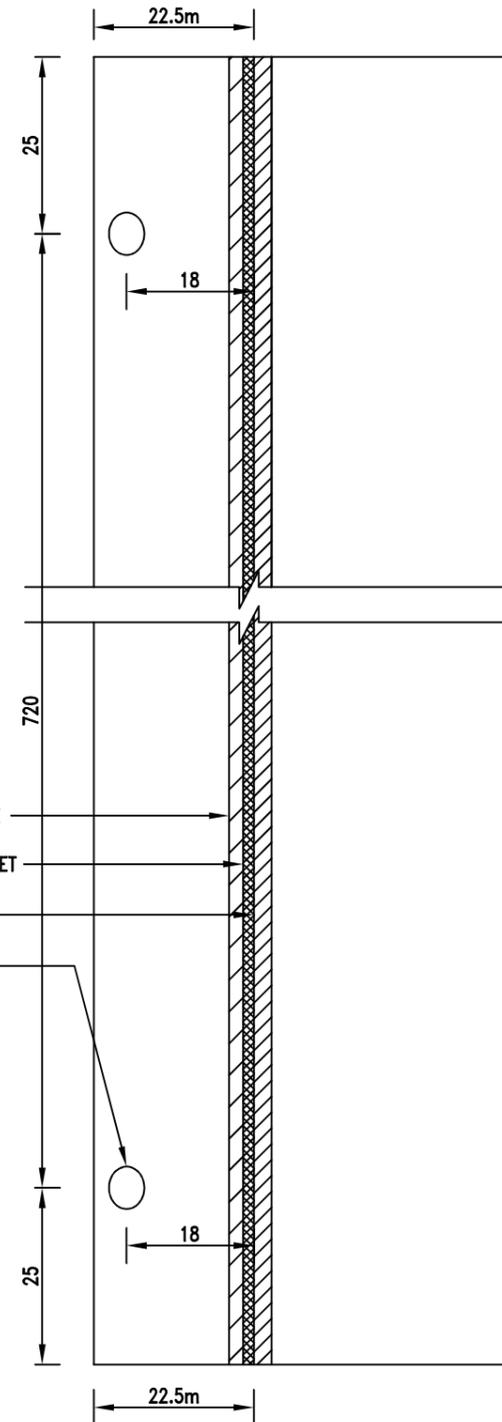
**FULL ELEVATION**  
SCALE 1:20



**SECTION A-A**  
SCALE 1:1



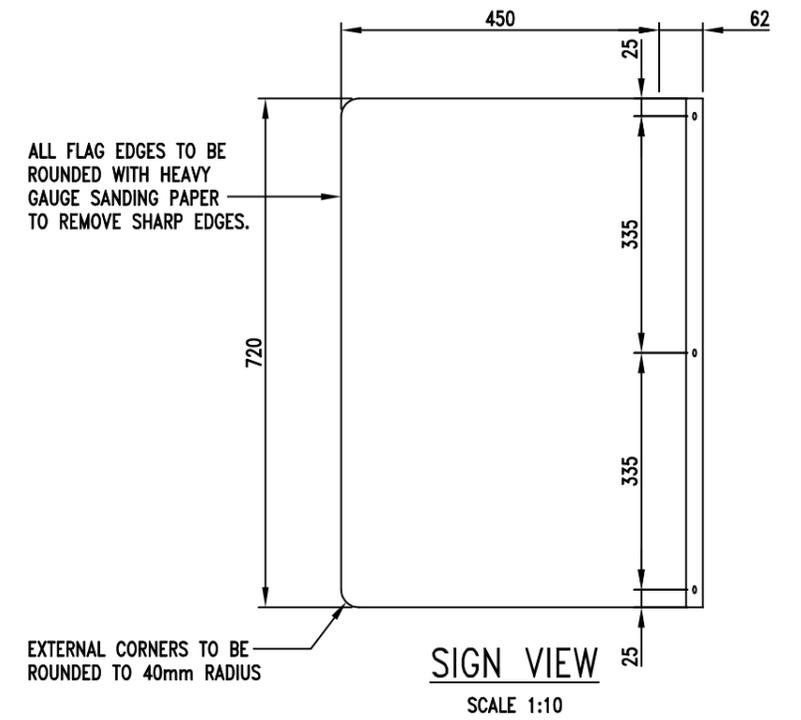
**DETAIL 1**  
**TYPICAL CONNECTION SLOT FOR**  
**BUTTON HEAD FIXINGS**  
SCALE 1:1



**SECTION B-B**  
SCALE 1:1

**FLAG AND FIXINGS ASSEMBLY SCHEDULE**

Stainless Steel (Grade 1.4401)				
Type	No. of M6 Button Head Fixings A4-80 to ISO 7380	No. of Nord-Lock NL6spss Washers or Similar Approved	No. of 1.5x20mm Neoprene Gaskets	Length of Securing Plates 2x20x20 Angle x 720 (Length)
C	6	6	1	720



**SIGN VIEW**  
SCALE 1:10

**FOR TENDER**

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**NOTES**

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- Flag pole and securing plate to be grade 316 stainless steel as per specification.

Rev. No.	Date	REVISION NOTE	Dim. By	Chkd. By
A	25/08/14	UPDATED TO NTA COMMENTS	KD	MH
B	27-08-14	UPDATED TO NTA COMMENTS	BP	MH
C	11-07-18	UPDATED TO NTA COMMENTS	SMG	KA
D	12-08-19	UPDATED TO NTA COMMENTS	EB	KA

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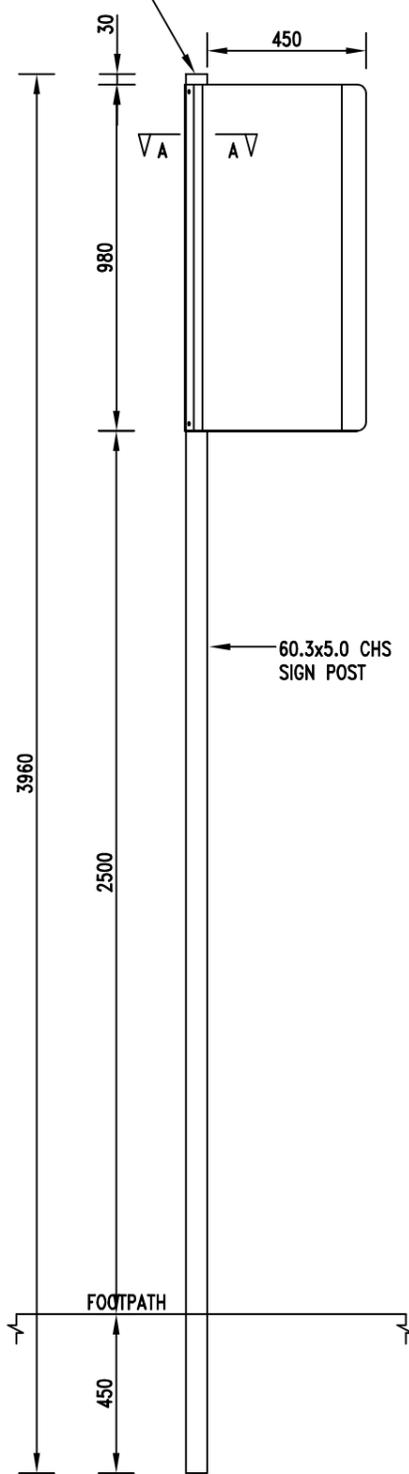
e: ocsc@ocsc.ie  
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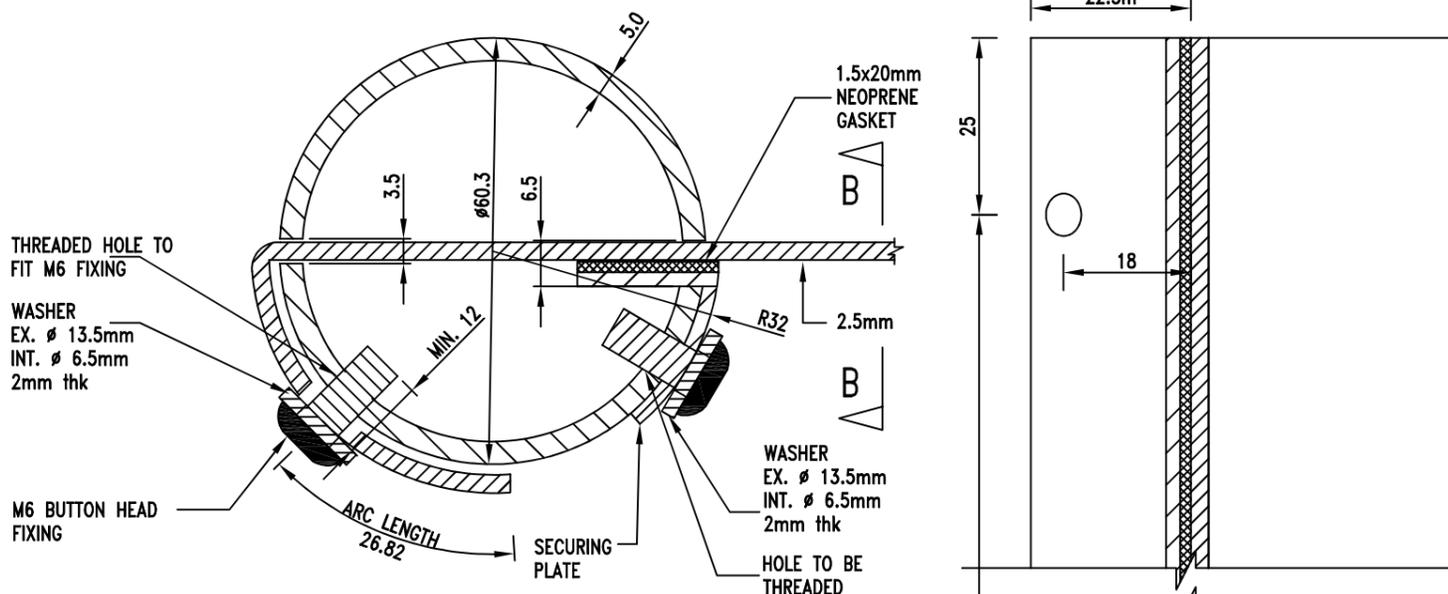
Office Locations | Dublin (Head Office) | London | Cork | Galway | Belfast | Warsaw | Bucharest | Moscow | Abu Dhabi | Libya |

Client	NATIONAL TRANSPORT AUTHORITY			
Project	BUS STOPS POLE & BASE DETAILS REPORT NO. 3			
Title	FLAG AND POLE ASSEMBLY - TYPE C			
Dim. by	Chkd. by	Appr. by	Des. No.	Revision
P.D	MH	MOR	N169 -006	D
Date	Scale			
08/08/14	AS SHOWN @ A3			

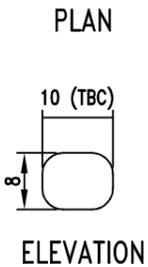
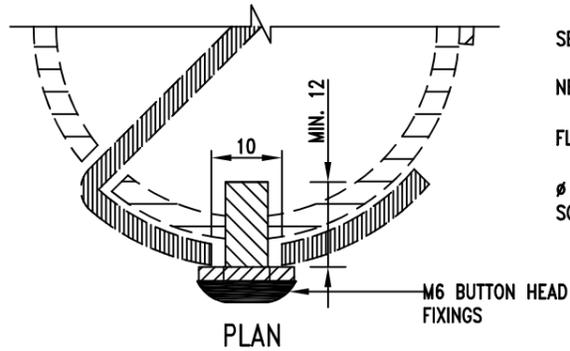
TOP OF POLE TO BE FULLY SEALED WITH A WELDED CIRCULAR STAINLESS STEEL STOP END PLATE



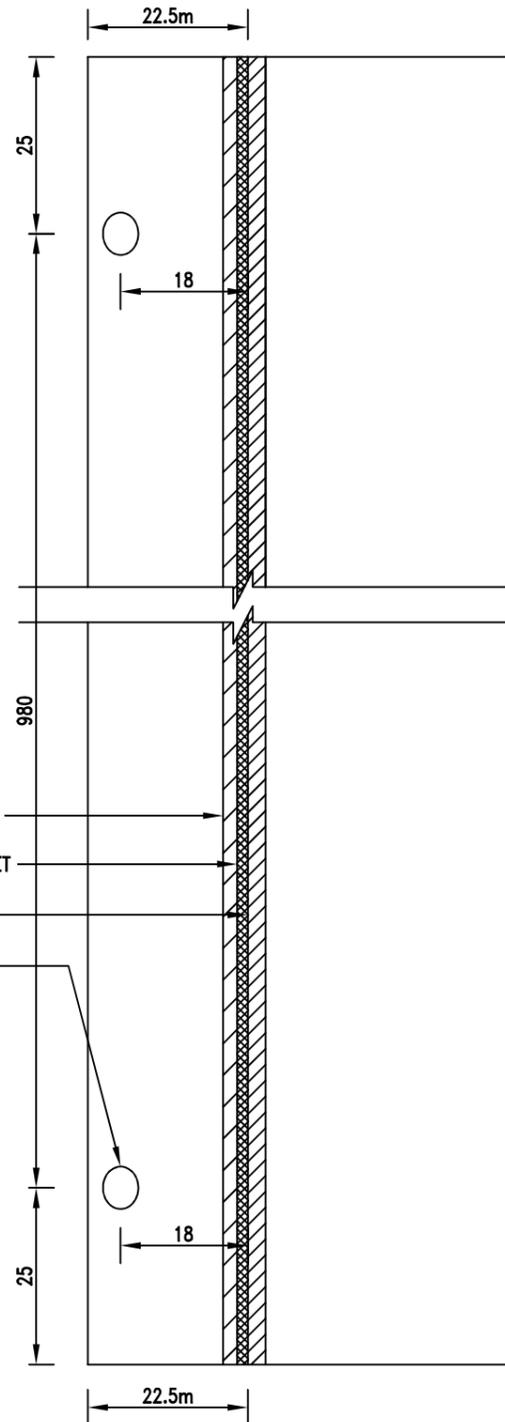
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SCALE 1:20



**SECTION A-A**  
SCALE 1:1



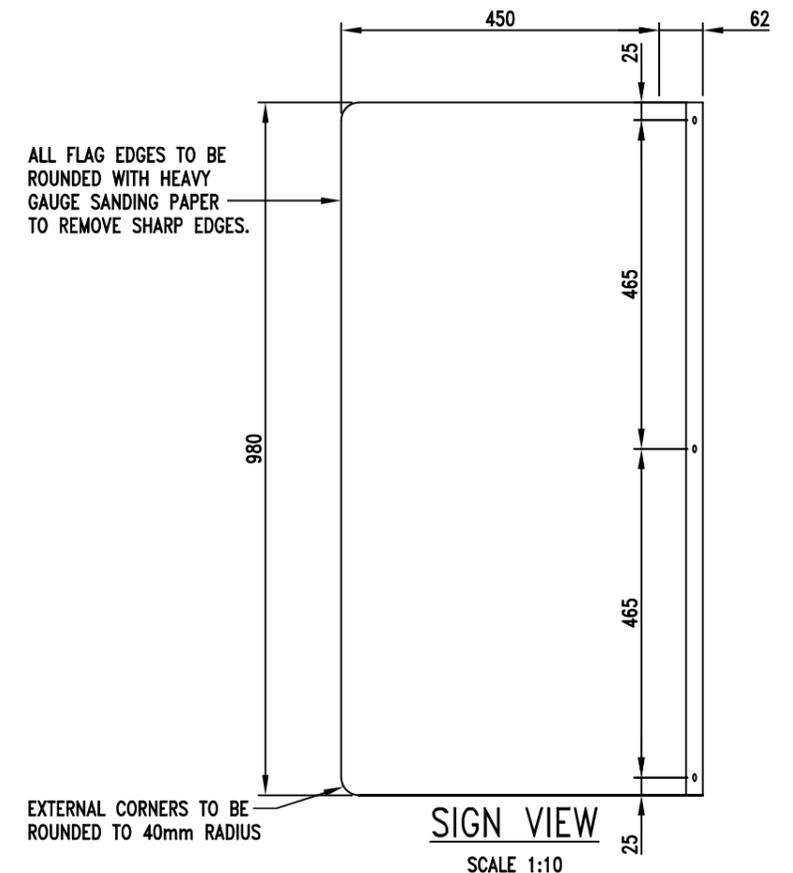
**DETAIL 1**  
**TYPICAL CONNECTION SLOT FOR**  
**BUTTON HEAD FIXINGS**  
SCALE 1:1



**SECTION B-B**  
SCALE 1:1

**FLAG AND FIXINGS ASSEMBLY SCHEDULE**

Stainless Steel (Grade 1.4401)				
Type	No. of M6 Button Head Fixings A4-80 to ISO 7380	No. of Nord-Lock NL6spss Washers or Similar Approved	No. of 1.5x20mm Neoprene Gaskets	Length of Securing Plates 2x20x20 Angle x 980
E	6	6	1	980mm



**SIGN VIEW**  
SCALE 1:10

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- Flag pole and securing plate to be grade 316 stainless steel as per specification.

Rev. No.	Date	REVISION NOTE	Drn. By	Chkd. By
A	25/08/14	UPDATED TO NTA COMMENTS	KD	MH
B	27-08-14	UPDATED TO NTA COMMENTS	BP	MH
C	11-07-18	UPDATED NTA COMMENTS	SMG	KA
D	12-08-19	UPDATED TO NTA COMMENTS	EB	KA

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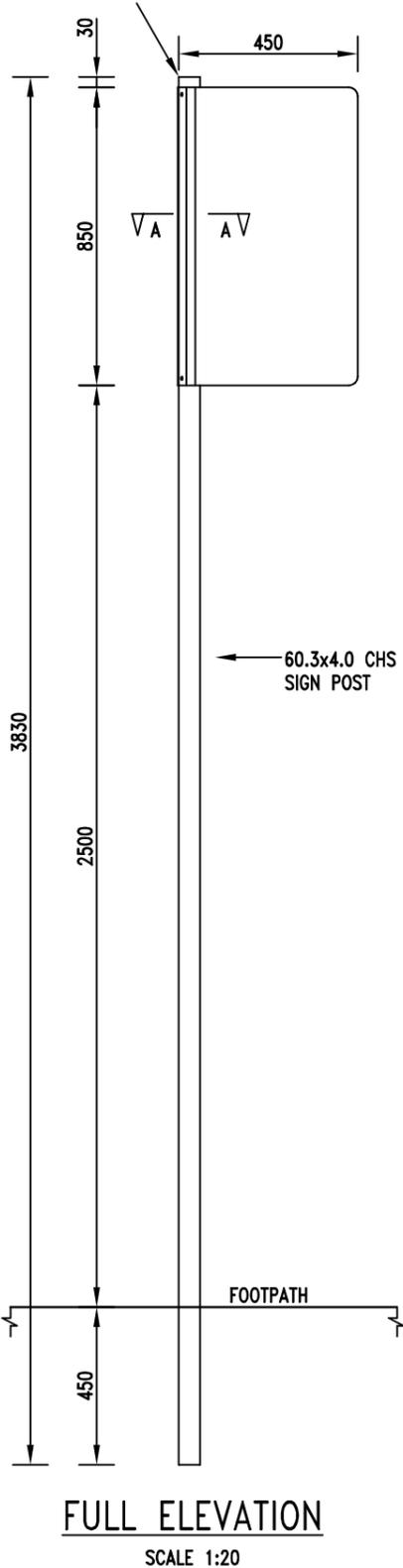
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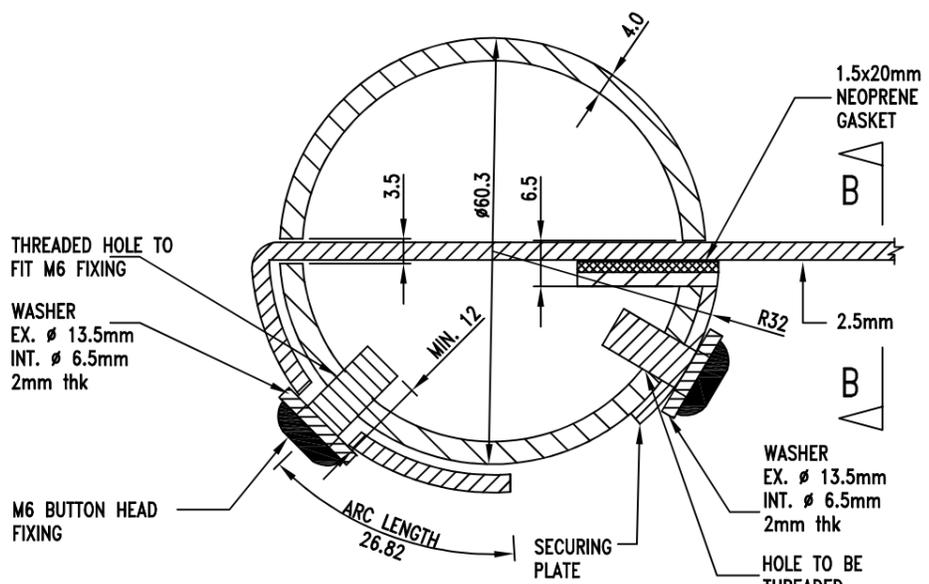
Office Locations | Dublin (Head Office) | London | Cork | Galway | Belfast | Warsaw | Bucharest | Moscow | Abu Dhabi | Libya |

Client	NATIONAL TRANSPORT AUTHORITY			
Project	BUS STOPS POLE & BASE DETAILS REPORT NO. 3			
Title	FLAG AND POLE ASSEMBLY - TYPE E			
Drn. by	Chkd. by	Aprd. by	Des. No.	Revision
P.D	MH	MOR	N169 -008	D
Date	Scale			
08/08/14	AS SHOWN @ A3			

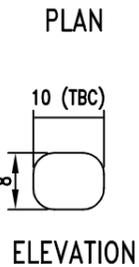
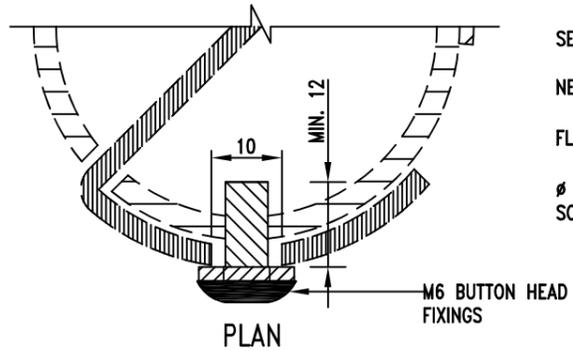
TOP OF POLE TO BE FULLY SEALED WITH A WELDED CIRCULAR STAINLESS STEEL STOP END PLATE



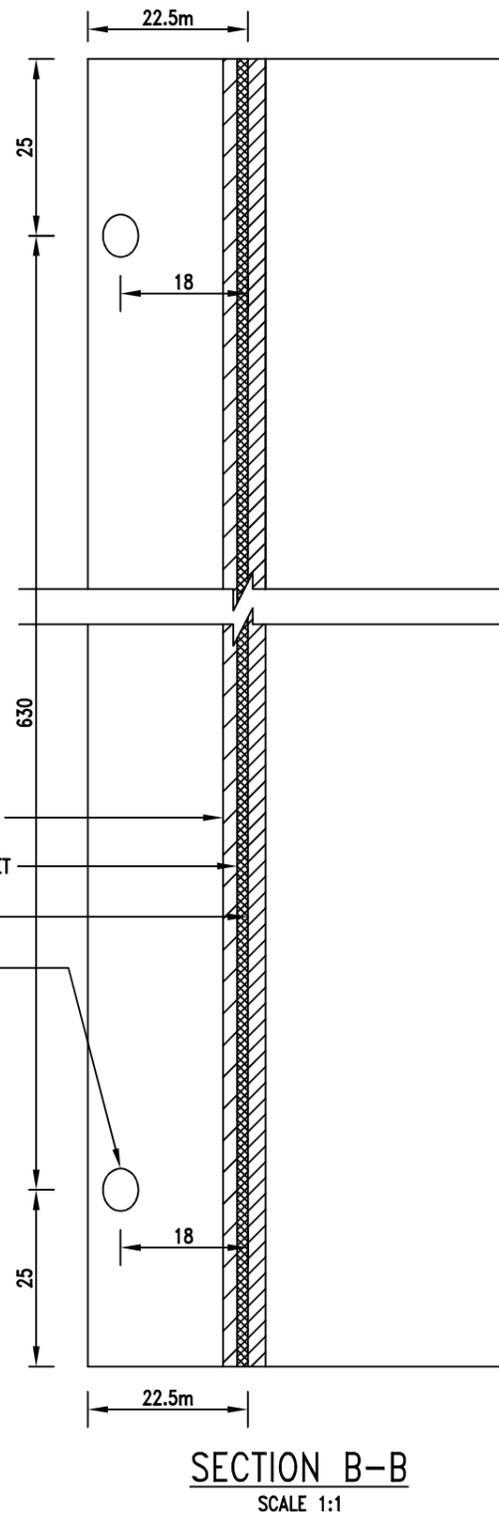
**FULL ELEVATION**  
SCALE 1:20



**SECTION A-A**  
SCALE 1:1



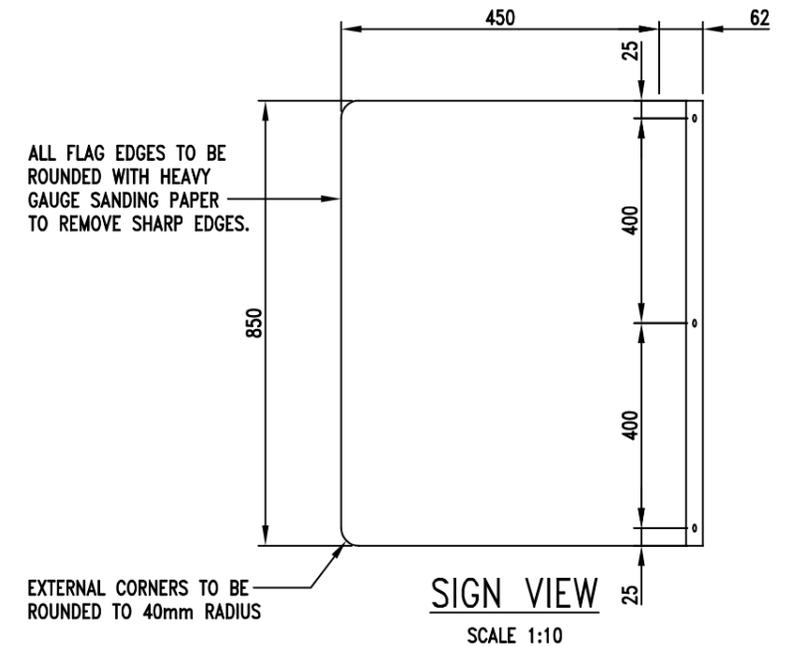
**DETAIL 1**  
**TYPICAL CONNECTION SLOT FOR**  
**BUTTON HEAD FIXINGS**  
SCALE 1:1



**SECTION B-B**  
SCALE 1:1

**FLAG AND FIXINGS ASSEMBLY SCHEDULE**

Stainless Steel (Grade 1.4401)				
Type	No. of M6 Button Head Fixings A4-80 to ISO 7380	No. of Nord-Lock NL6spss Washers or Similar Approved	No. of 1.5x20mm Neoprene Gaskets	Length of Securing Plates 2x20x20 Angle
F	6	6	1	850mm



**SIGN VIEW**  
SCALE 1:10

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- Flag pole and securing plate to be grade 316 stainless steel as per specification.

Rev. No.	Date	REVISION NOTE	Des. By	Chkd. By
A	13-06-16	POLE HEIGHT REVISED TO CLIENT COMMENTS	DS	DM
B	23-11-16	DIMENSION ERRORS REVISED	JF	DM
C	11-07-18	UPDATED TO NTA COMMENTS	SMG	KA
D	12-08-219	UPDATED TO NTA COMMENTS	EB	KA

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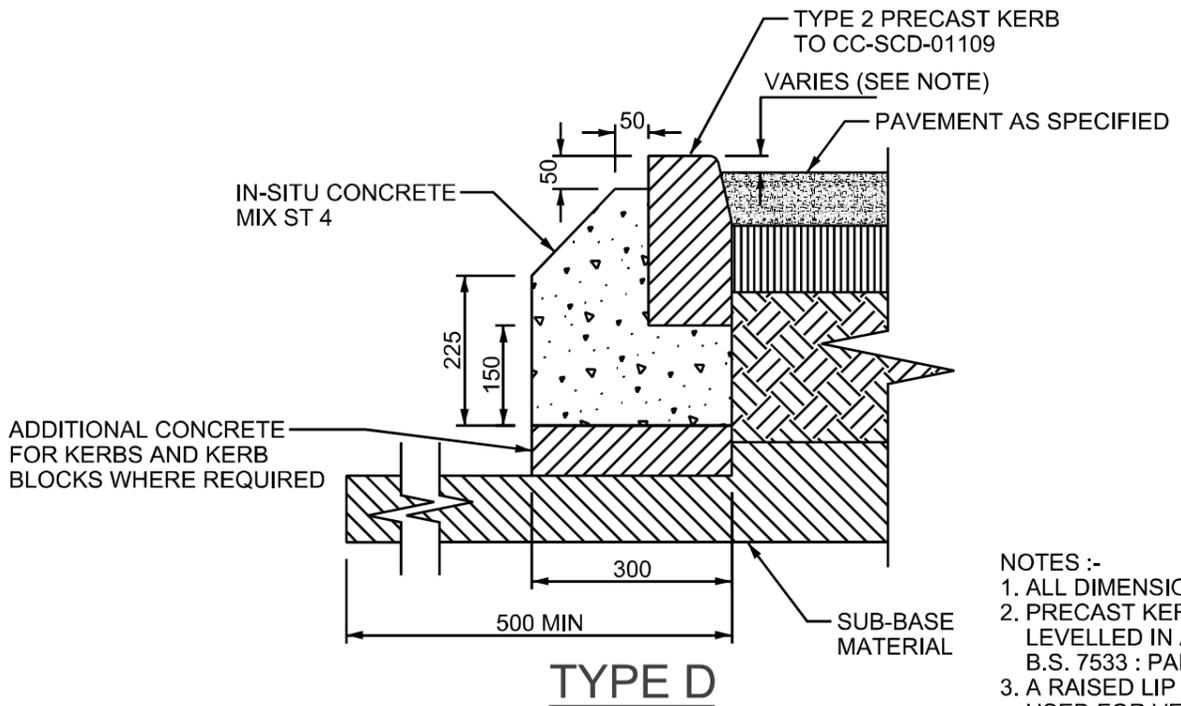
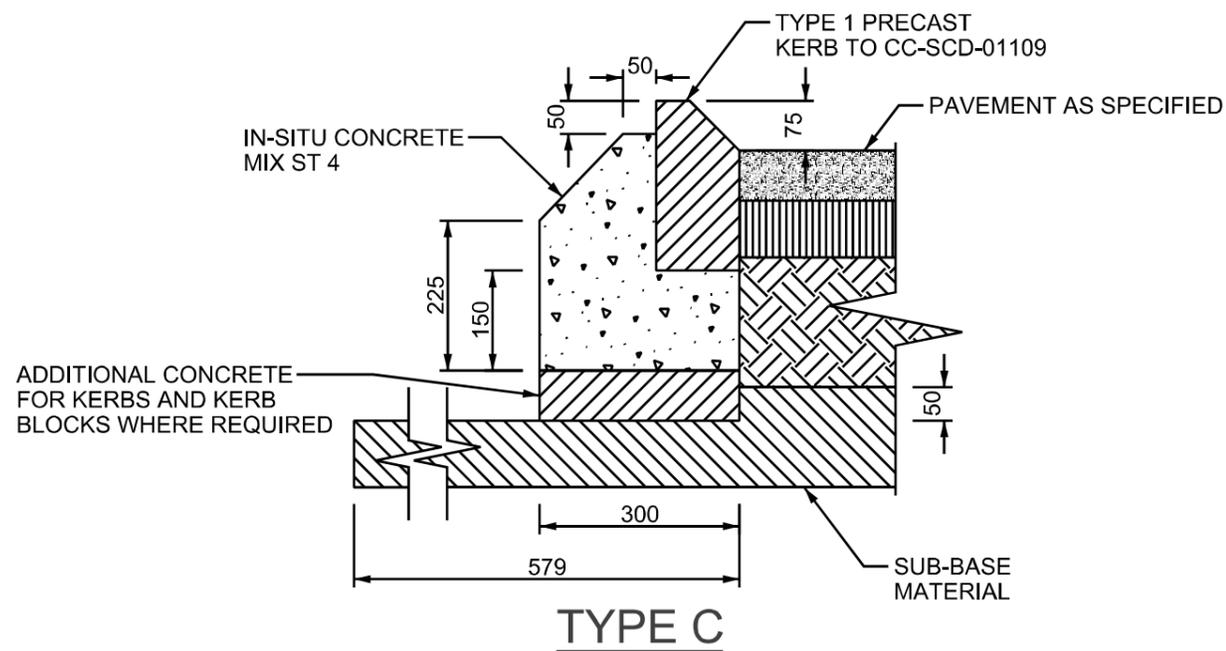
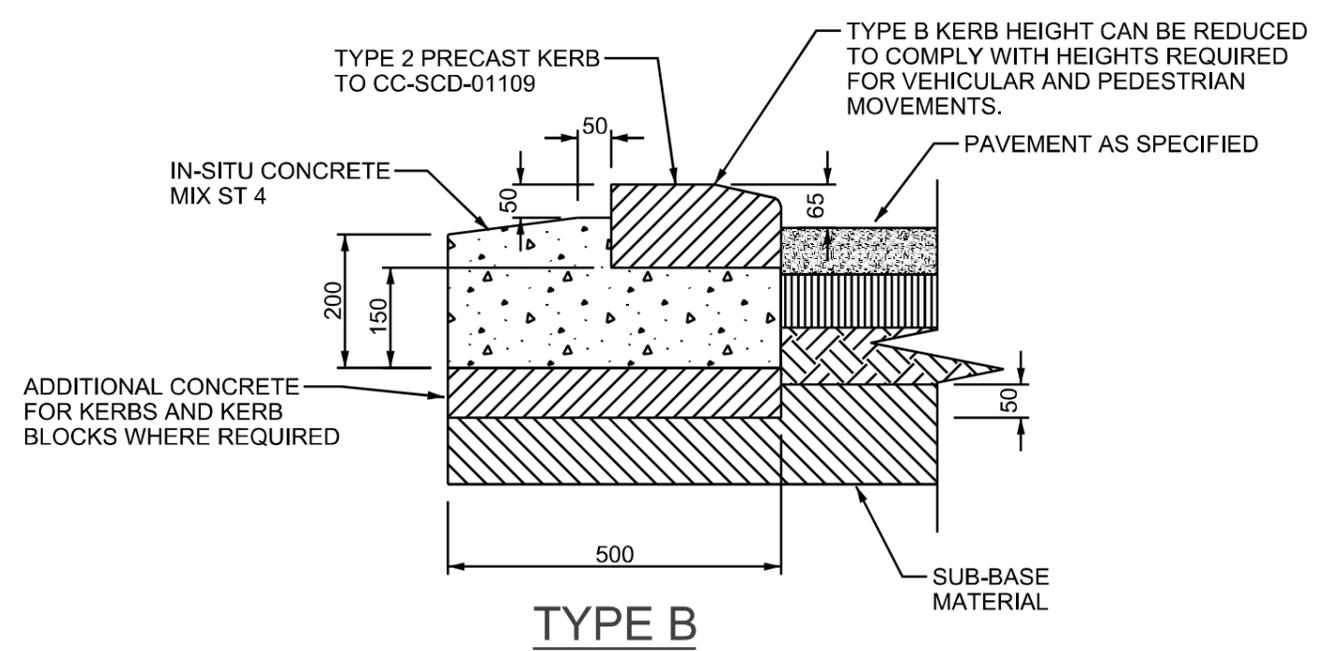
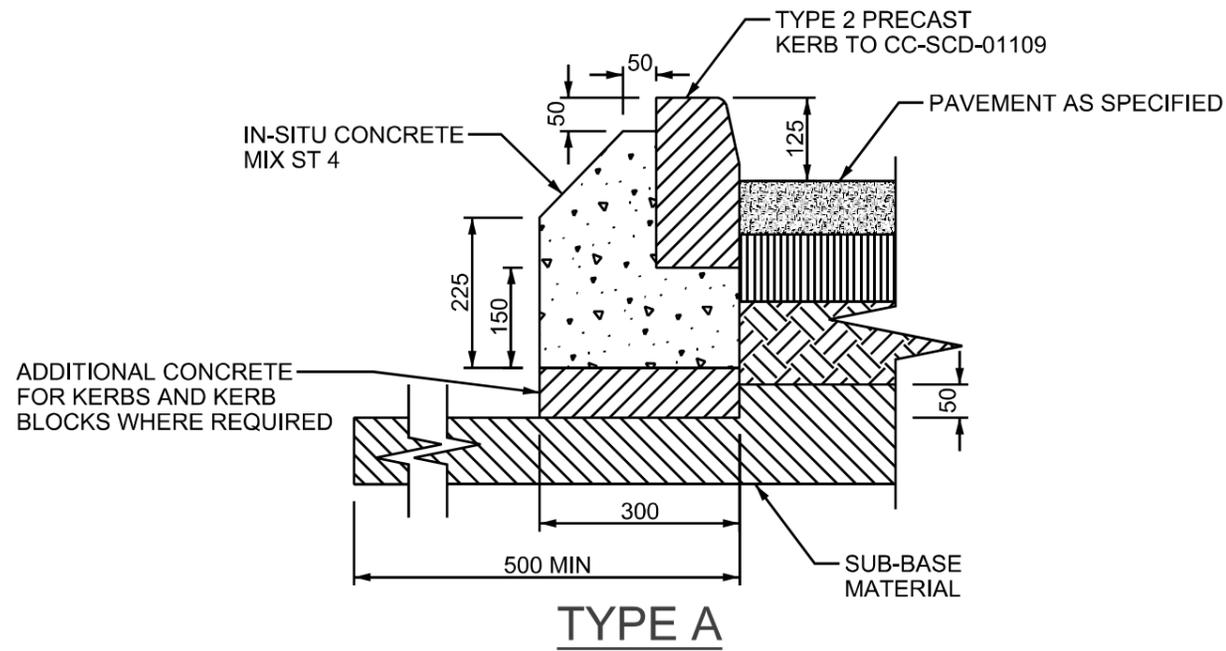
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Client	NATIONAL TRANSPORT AUTHORITY			
Project	BUS STOPS POLE & BASE DETAILS REPORT NO. 3			
Title	FLAG AND POLE ASSEMBLY - TYPE F			
Des. by DS	Chkd. by DM	Appr. by MOR	Des. No.	Revision
Date 08/06/16	Scale AS SHOWN @ A3		N169 -011	D



- NOTES :-
1. ALL DIMENSIONS ARE IN MILLIMETRES.
  2. PRECAST KERBS SHALL BE LAID AND LEVELLED IN ACCORDANCE WITH B.S. 7533 : PART 4.
  3. A RAISED LIP OF 25mm SHOULD BE USED FOR VEHICULAR ENTRANCES.
  4. A RAISED LIP OF 0-6mm SHOULD BE USED FOR PEDESTRIAN CROSSINGS.



PUBLICATION TITLE

KERBS, FOOTWAYS AND PAVED AREAS  
PRECAST KERBS

ACTIVITY

STREAM

STANDARD CONSTRUCTION DETAILS (SCD)

HISTORICAL REFERENCE

RCD/1100/1

DOCUMENTATION SET

STANDARDS

PUBLICATION DATE

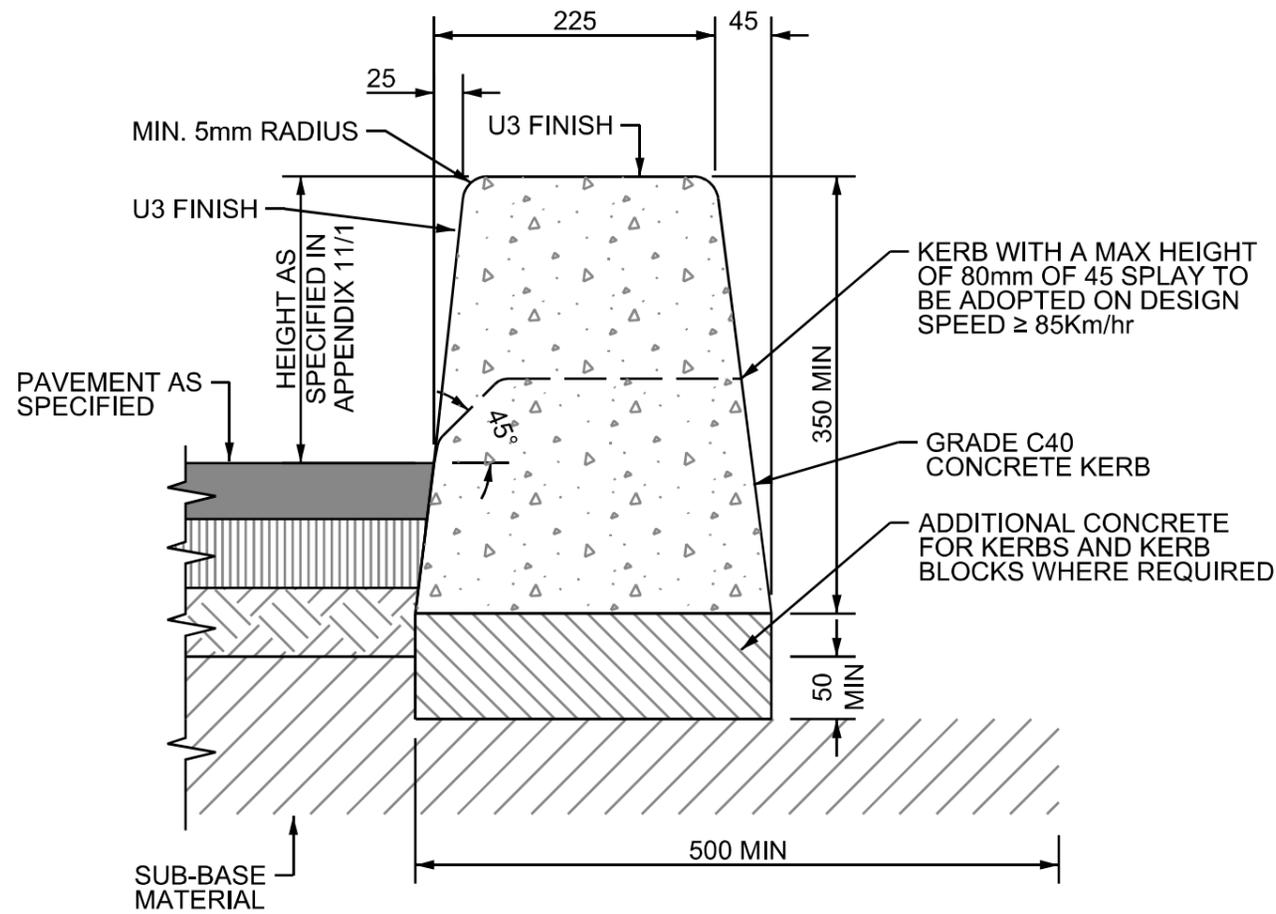
DECEMBER 2010

PUBLICATION NUMBER

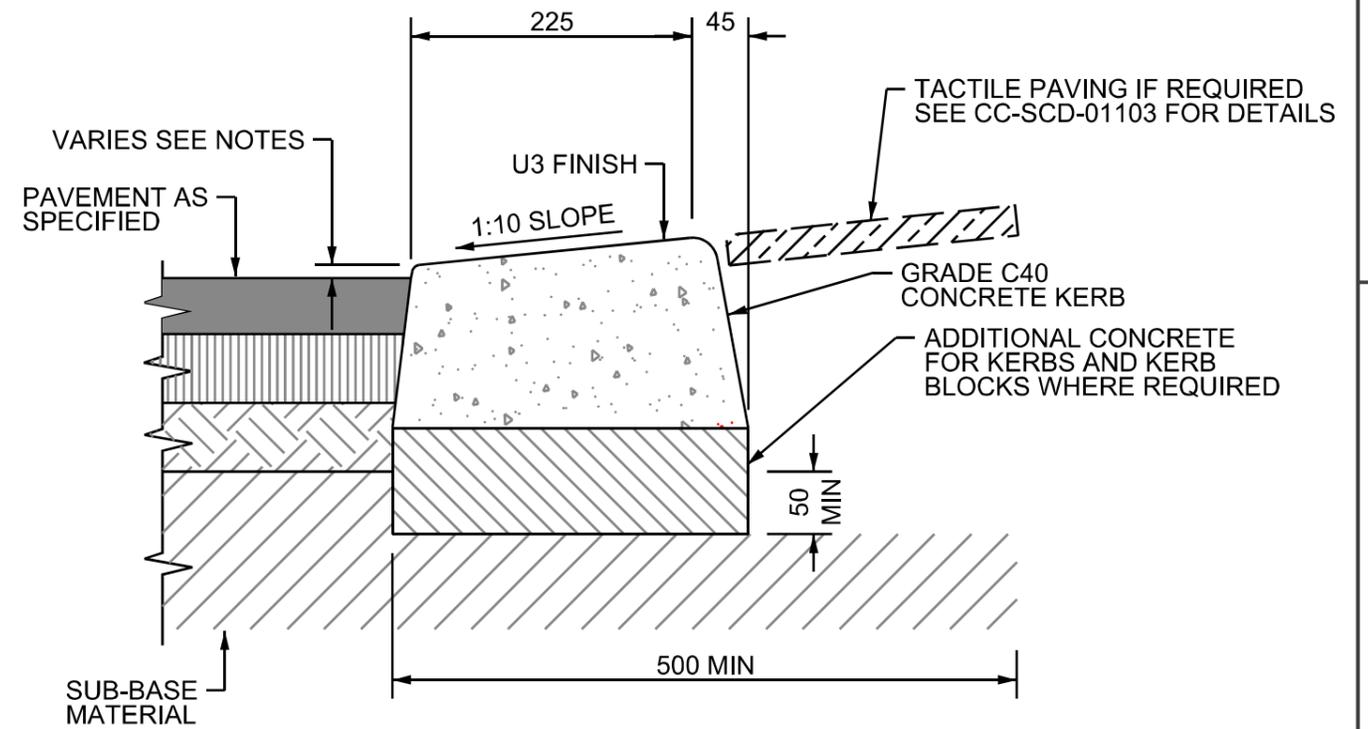
ACTIVITY	STREAM	DRAWING NUMBER
CC	SCD	01101

NOTES :-

1. ALL DIMENSIONS ARE IN MILLIMETRES.
2. IN SITU CONCRETE KERBS SHALL COMPLY WITH THE RECOMMENDATIONS OF B.S. 5931.
3. KERBS SHALL BE PROTECTED FROM THE EFFECTS OF ADVERSE WEATHER UNTIL CURED.
4. DROP KERB HEIGHT VARIES FROM 25mm FOR VEHICULAR ACCESSES AND 0-6mm FOR PEDESTRIAN CROSSING.



**STANDARD IN SITU CONCRETE KERB**



**IN SITU CONCRETE DROP KERB**



ACTIVITY



PUBLICATION TITLE

KERBS, FOOTWAYS AND PAVED AREAS  
IN SITU KERBS

STREAM

STANDARD CONSTRUCTION DETAILS (SCD)

HISTORICAL REFERENCE

RCD/1100/2

DOCUMENTATION SET

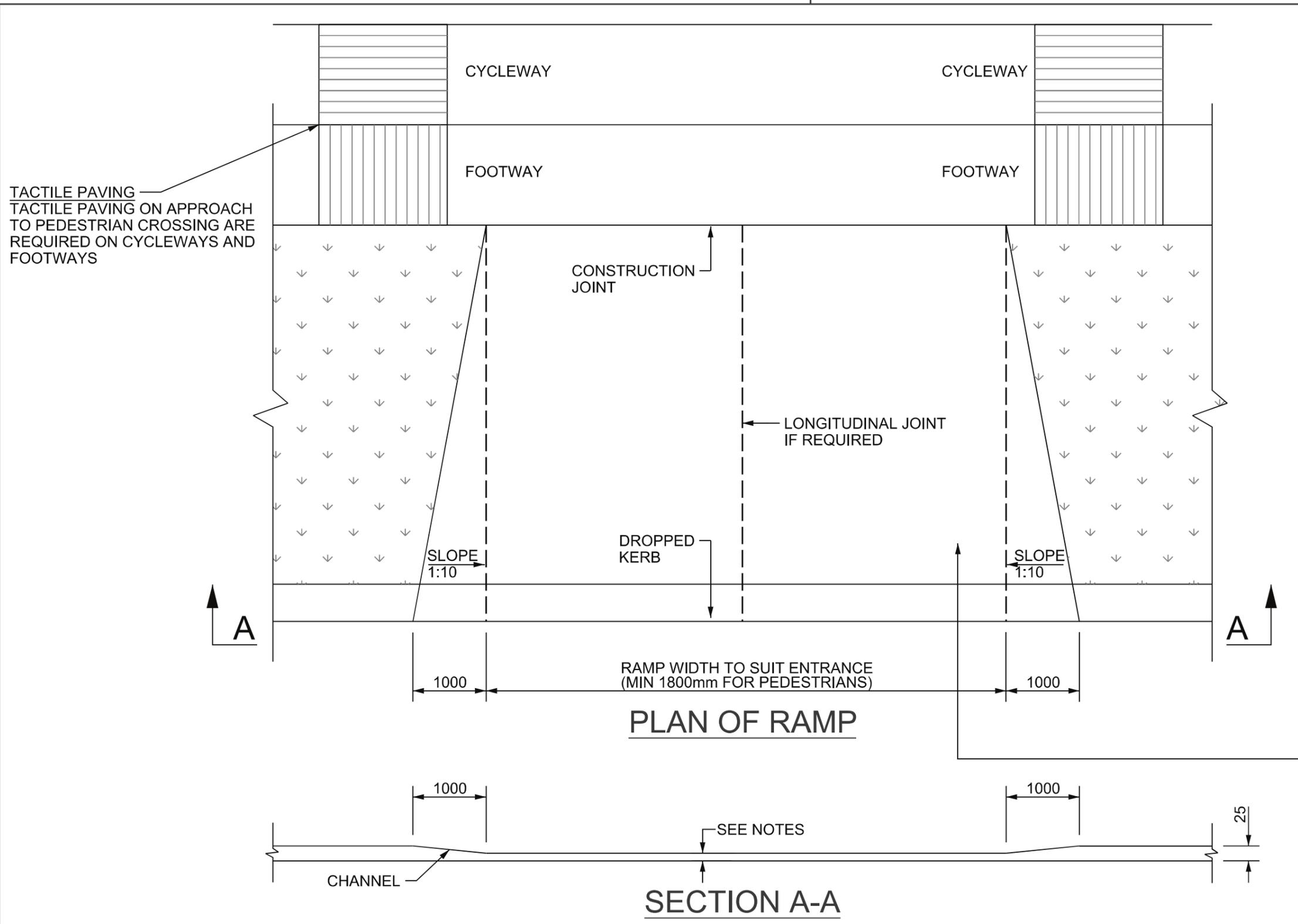
STANDARDS

PUBLICATION DATE

DECEMBER 2010

PUBLICATION NUMBER

ACTIVITY	STREAM	DRAWING NUMBER
CC	SCD	01102

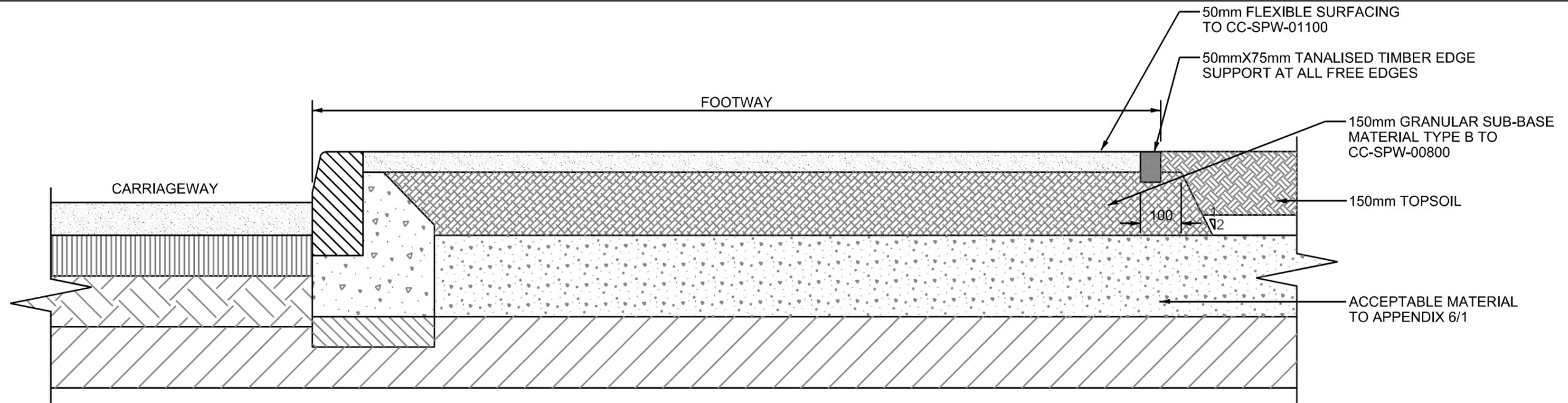


- NOTES :-
1. A RAISED LIP OF 25mm SHOULD BE USED FOR VEHICULAR ENTRANCES.
  2. A RAISED LIP OF 0-6mm SHOULD BE USED FOR PEDESTRIAN CROSSING.
  3. REFER TO CC-SCD-01109 FOR PRECAST KERB DIMENSIONS.
  4. REFER TO CC-SCD-01102 FOR INSITU CONCRETE KERB DIMENSIONS.
  5. TACTILE PAVING IS TO BE PROVIDED AT ALL PEDESTRIAN CROSSINGS, ADVICE ON THE EXACT LOCATION AND DIMENSIONS CAN BE FOUND FROM THE UK DEPARTMENT FOR TRANSPORT, MOBILITY INCLUSION UNIT DOCUMENT, "GUIDANCE ON THE USE OF TACTILE PAVING SURFACE".
  6. ALL DIMENSIONS ARE IN MILLIMETRES.
  7. TACTILE PAVING TO BE LAID ON A MINIMUM 30mm / MAXIMUM 70mm COMPACTED THICKNESS OF SEMI-DRY CONCRETE CONTAINING FORTA-FIBRE POLYPROPYLENE FIBRES OR OTHER APPROVED EQUIVALENT FIBRE. REINFORCEMENT AT A RATE OF 0.9 kg/m<sup>3</sup>. THE COMPRESSIVE STRENGTH OF THE BEDDING SHALL NOT BE LESS THAN 35 N/sq mm.

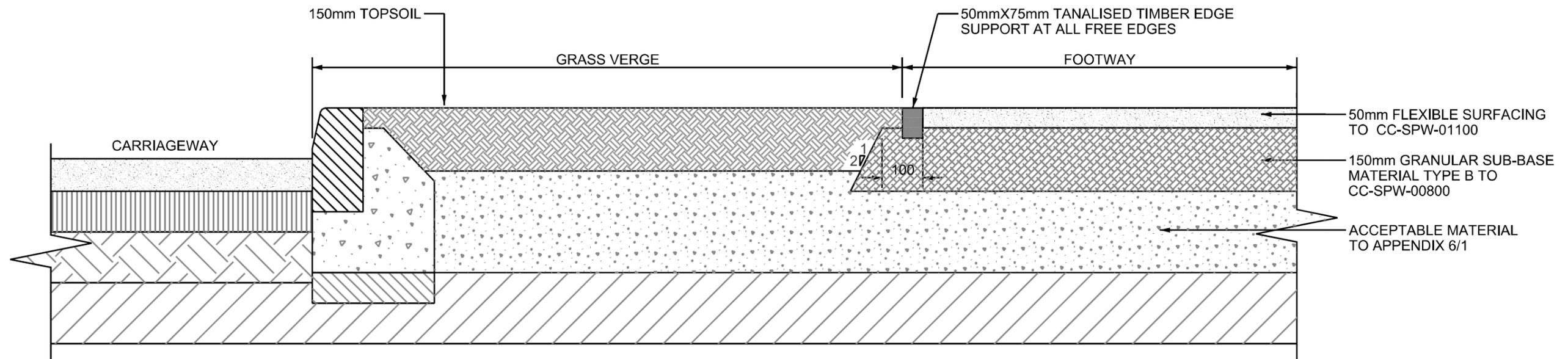
**VEHICULAR ACCESS:**  
RAMP CONSTRUCTION FROM GRADE C30 CONCRETE 150mm THICK WITH A393 MESH REINFORCED TOP AND BOTTOM. SURFACE OF RAMP TO BE BRUSHED TOP FROM 'NON-SLIP' FINISH.

**PEDESTRIAN CROSSINGS:**  
TACTILE PAVING TO BE PROVIDED TO GIVE GUIDANCE TO VISUALLY IMPAIRED PEDESTRIANS.

	ACTIVITY	PUBLICATION TITLE		
		KERBS, FOOTWAYS AND PAVED AREAS DROPPED KERB RAMP		
STREAM	STANDARD CONSTRUCTION DETAILS (SCD)	HISTORICAL REFERENCE	DOCUMENTATION SET	PUBLICATION DATE
		RCD/1100/3	STANDARDS	MARCH 2020
				PUBLICATION NUMBER
				ACTIVITY STREAM DRAWING NUMBER
				CC SCD 01103



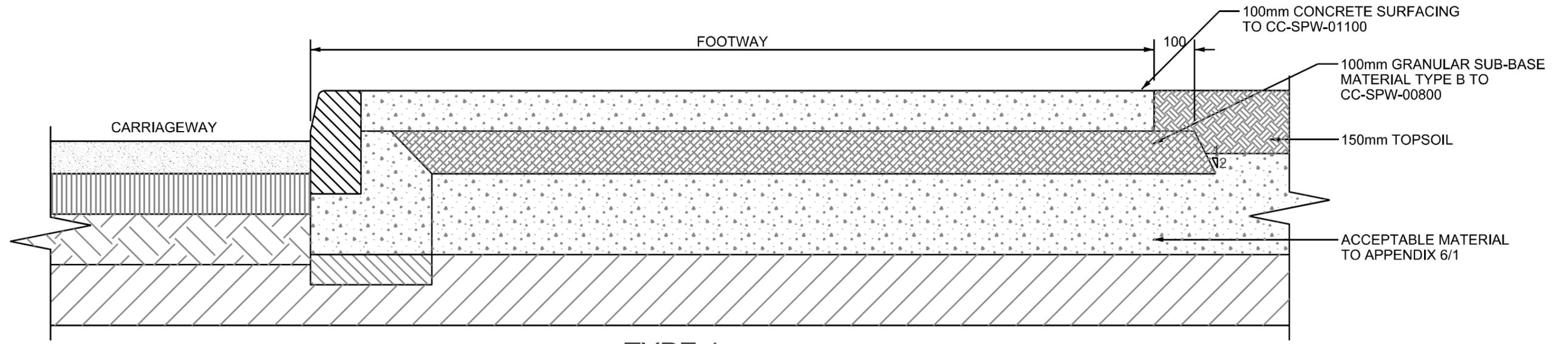
**TYPE 1**



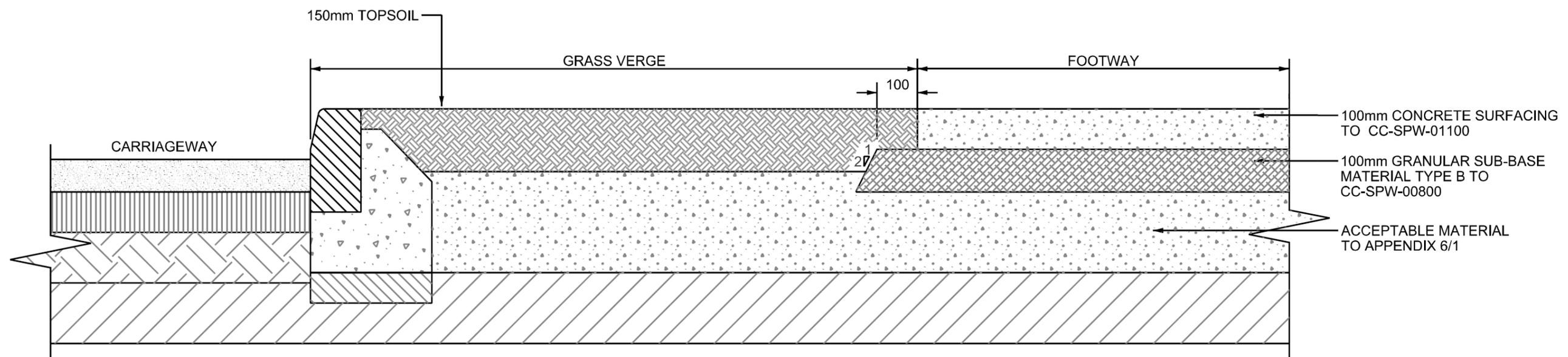
**TYPE 2**

NOTE:  
 1. FOOTWAY IS SHOWN WITH A PRECAST CONCRETE KERB TYPE A. ALTERNATIVE KERB TYPES ARE SHOWN CC-SCD-01101 AND CC-SCD-01102.  
 2. ALL DIMENSIONS ARE IN MILLIMETRES.

	ACTIVITY	PUBLICATION TITLE				
		KERBS, FOOTWAYS AND PAVED AREAS				
		BITUMINOUS FOOTWAY				
STREAM	HISTORICAL REFERENCE	DOCUMENTATION SET	PUBLICATION DATE	PUBLICATION NUMBER		
STANDARD CONSTRUCTION DETAILS (SCD)	RCD/1100/4	STANDARDS	MARCH 2000	ACTIVITY: CC	STREAM: SCD	DRAWING NUMBER: 01104



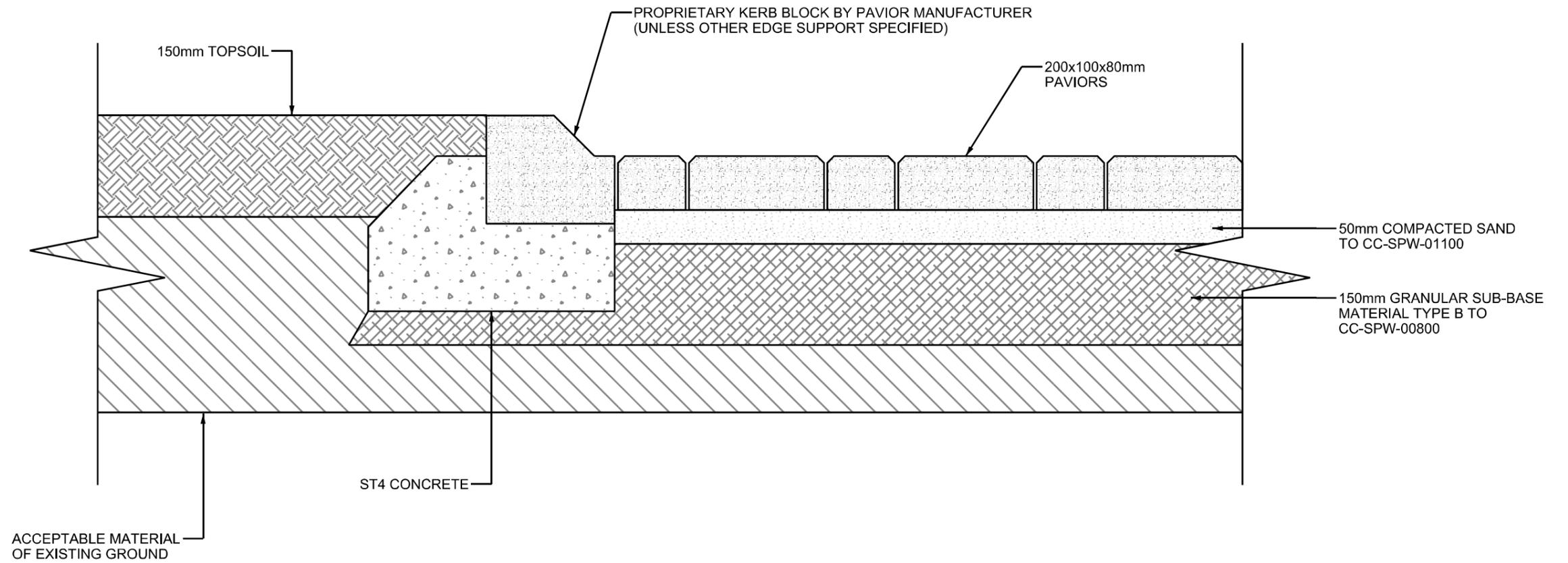
**TYPE 1**



**TYPE 2**

NOTE:  
 1. FOOTWAY IS SHOWN WITH A PRECAST CONCRETE KERB TYPE A. ALTERNATIVE KERB TYPES ARE SHOWN ON CC-SCD-01101 AND CC-SCD-01102.  
 2. ALL DIMENSIONS ARE IN MILLIMETRES.

	ACTIVITY	PUBLICATION TITLE			
		KERBS, FOOTWAYS AND PAVED AREAS			
		CONCRETE FOOTWAY			
STREAM	HISTORICAL REFERENCE	DOCUMENTATION SET	PUBLICATION DATE	PUBLICATION NUMBER	
STANDARD CONSTRUCTION DETAILS (SCD)	RCD/1100/5	STANDARDS	MARCH 2000	ACTIVITY	STREAM
				CC	SCD
				DRAWING NUMBER	01105



NOTE:

1. ALL BLOCK PAVING FREE EDGES SHALL BE SUPPORTED BY PROPRIETARY KERB BLOCKS UNLESS OTHER EDGE SUPPORT HAS BEEN SPECIFIED.
2. MAXIMUM GRADIENT TO WHICH BLOCK PAVING CAN BE LAID IS 8%.



ACTIVITY



PUBLICATION TITLE

KERBS, FOOTWAYS AND PAVED AREAS  
NON TRAFFICKED BLOCK PAVING

STREAM

STANDARD CONSTRUCTION DETAILS (SCD)

HISTORICAL REFERENCE

RCD/1100/6

DOCUMENTATION SET

STANDARDS

PUBLICATION DATE

MARCH 2000

PUBLICATION NUMBER

ACTIVITY	STREAM	DRAWING NUMBER
CC	SCD	01106