

**Sainsbury's Supermarkets Limited
Hambledon Road, Waterlooville,
Hampshire**

S278 Agreement Highway Works

CONSTRUCTION DETAILS BOOKLET

September 2012

Revision **A**

Ref ZSSLWVILLE2.2/CD

Sainsbury's Supermarkets Limited
Hambledon Road, Waterlooville,
Hampshire

S278 Agreement Highway Works

CONSTRUCTION DETAILS BOOKLET

September 2012

Revision A

Project Code:	ZSSLWVILLE2.2
Prepared by:	PSD
Checked by:	AB
Issue Date:	September 2012
Status:	FOR APPROVAL

**Sainsbury's Supermarkets Limited
Hambleton Road, Waterloooville
Hampshire
S278 Highway Works**

Summary of Revisions

Rev 0 – First Issue

Rev A – (11/01/13)

MB/C/01 Updated

C7/1 deleted. Tir-in detail between flexible carriageway and existing concrete carriageway added to MB/C/01

Sainsbury's Supermarkets Limited
Hambleton Road, Waterlooville
Hampshire
S278 Highway Works

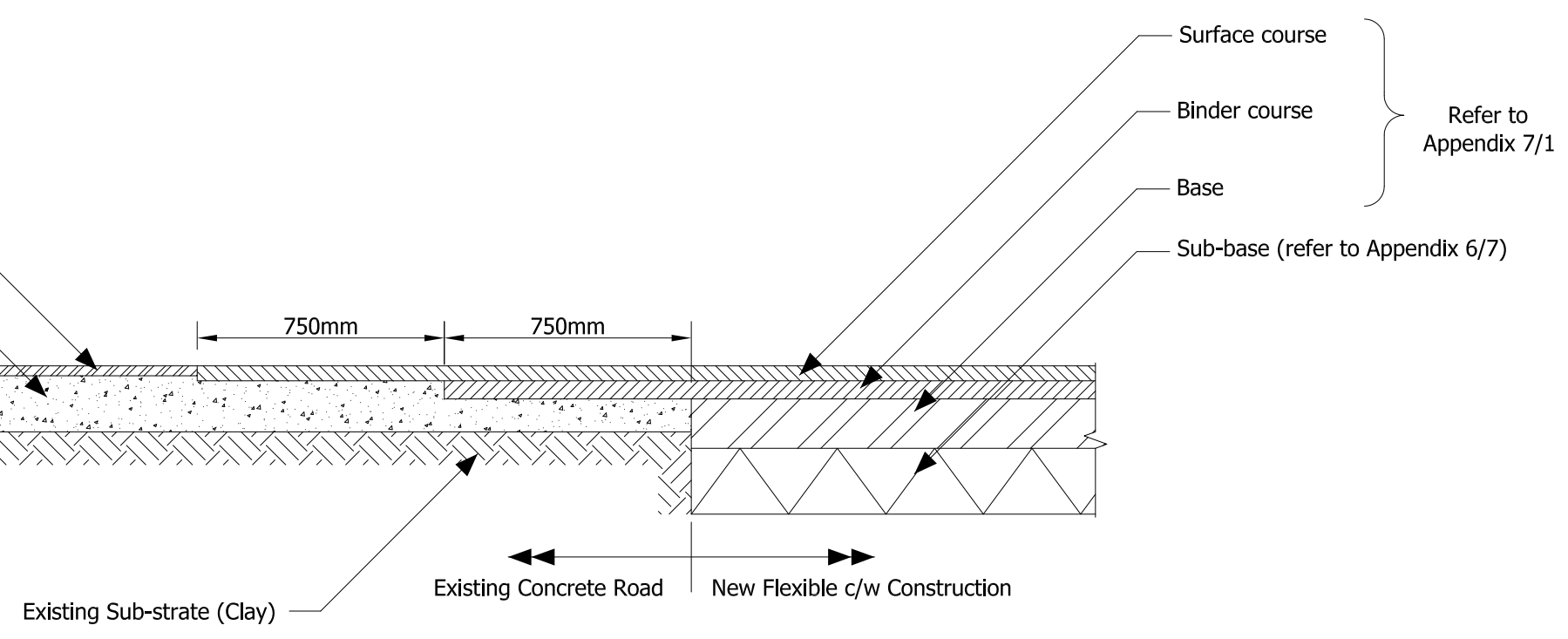
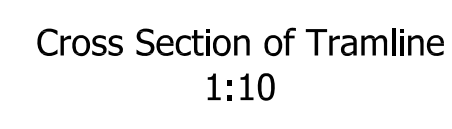
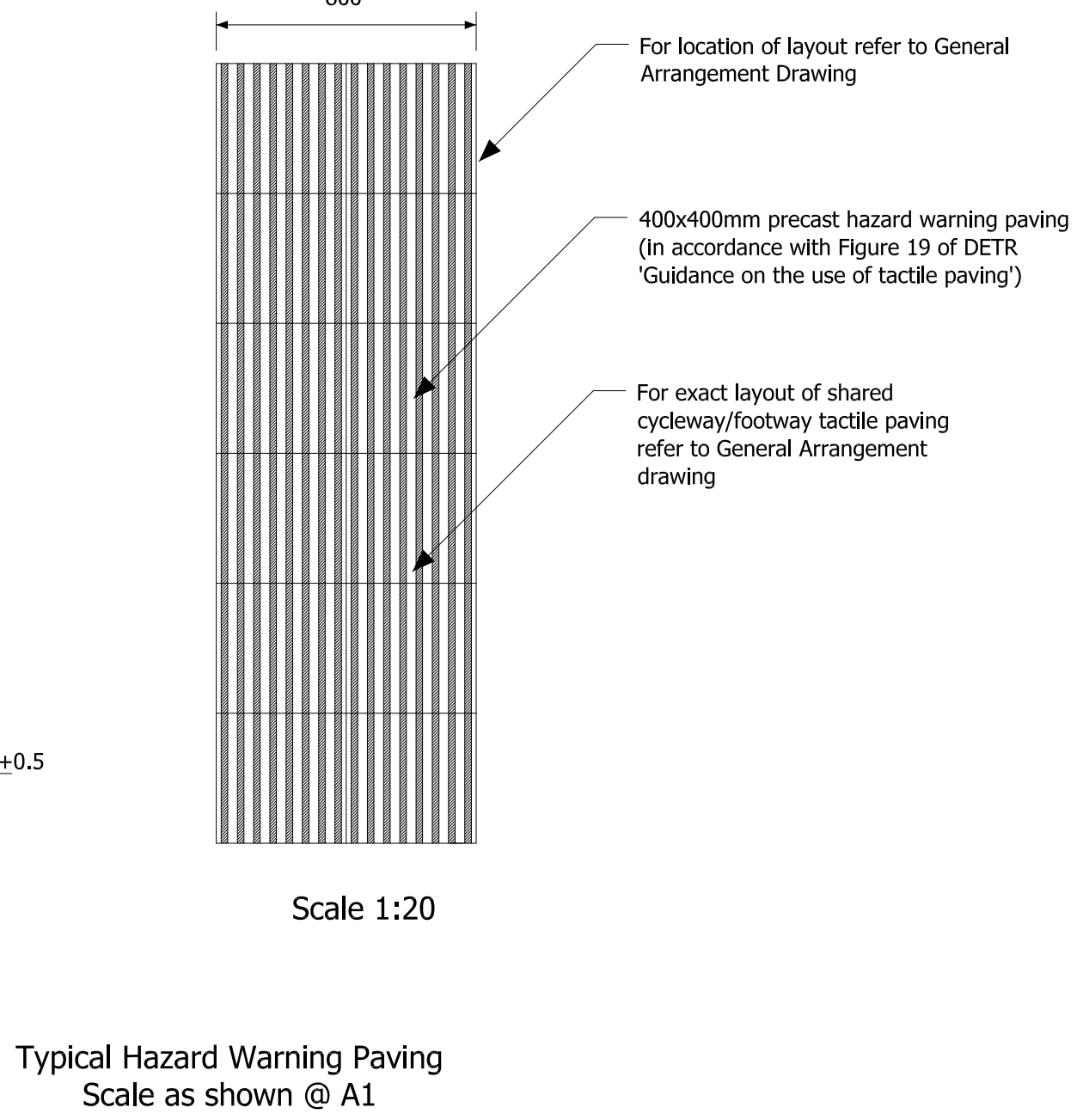
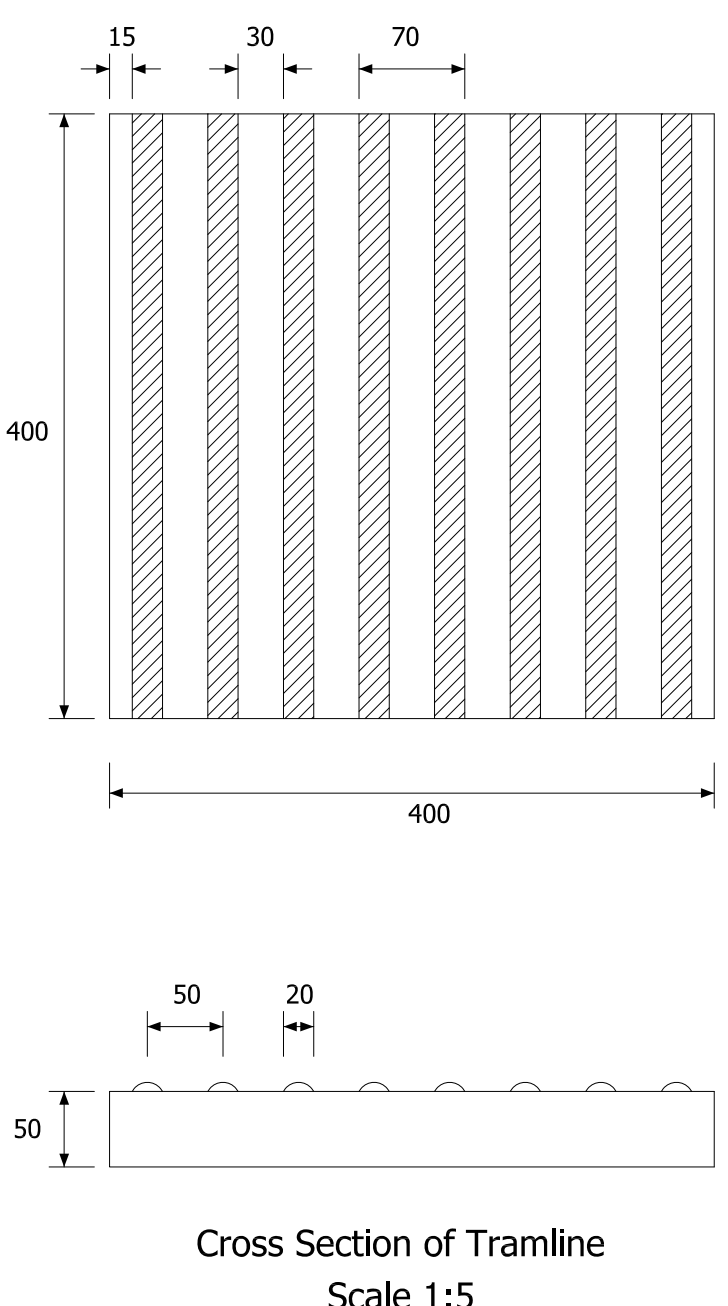
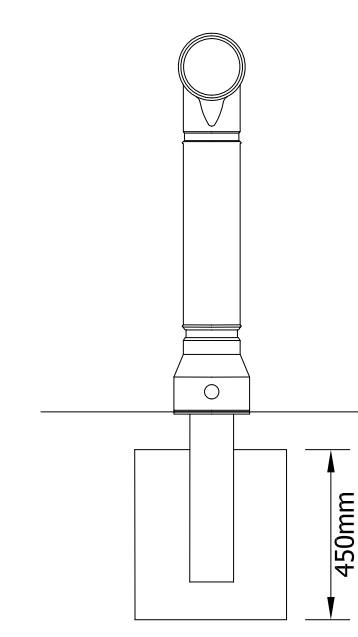
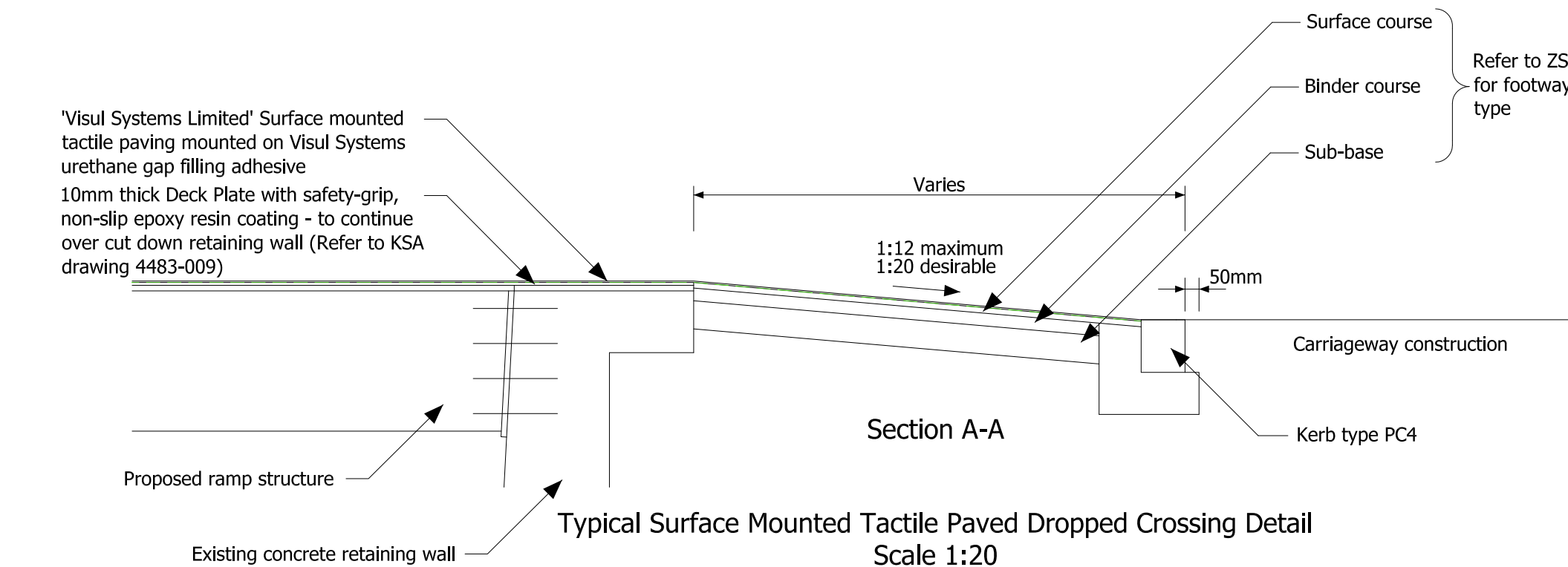
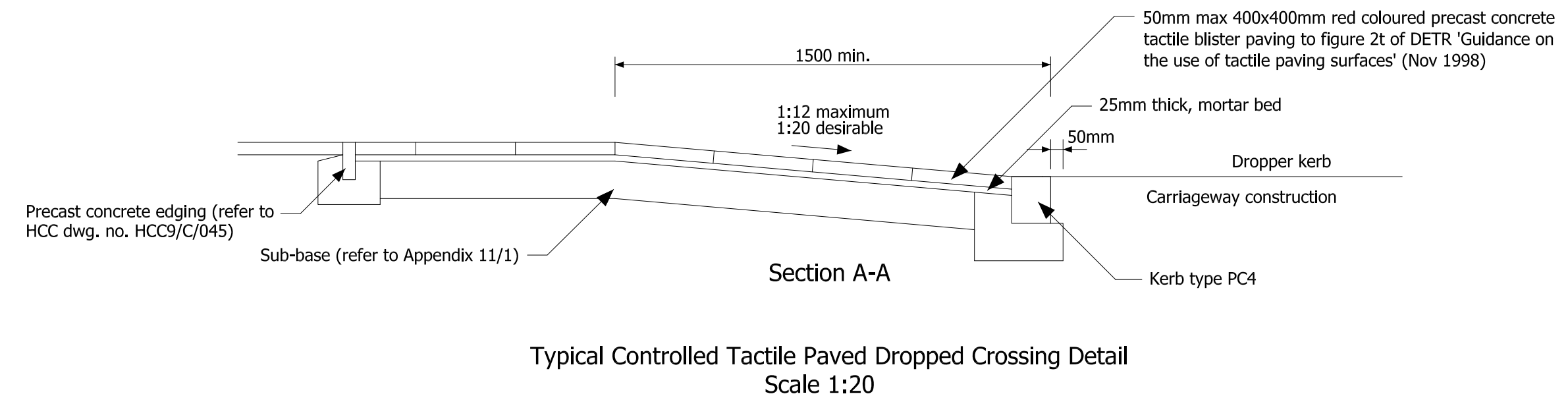
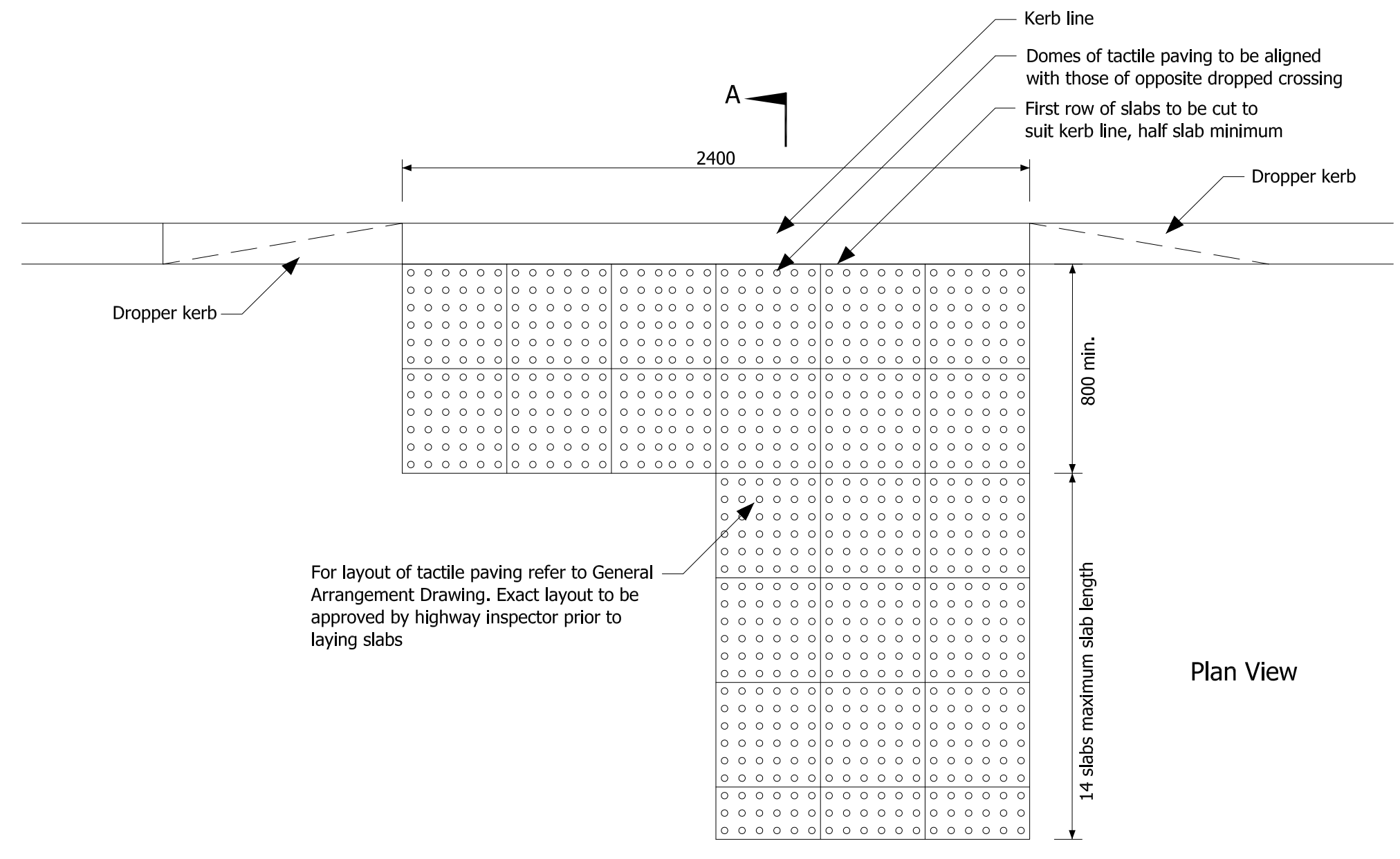
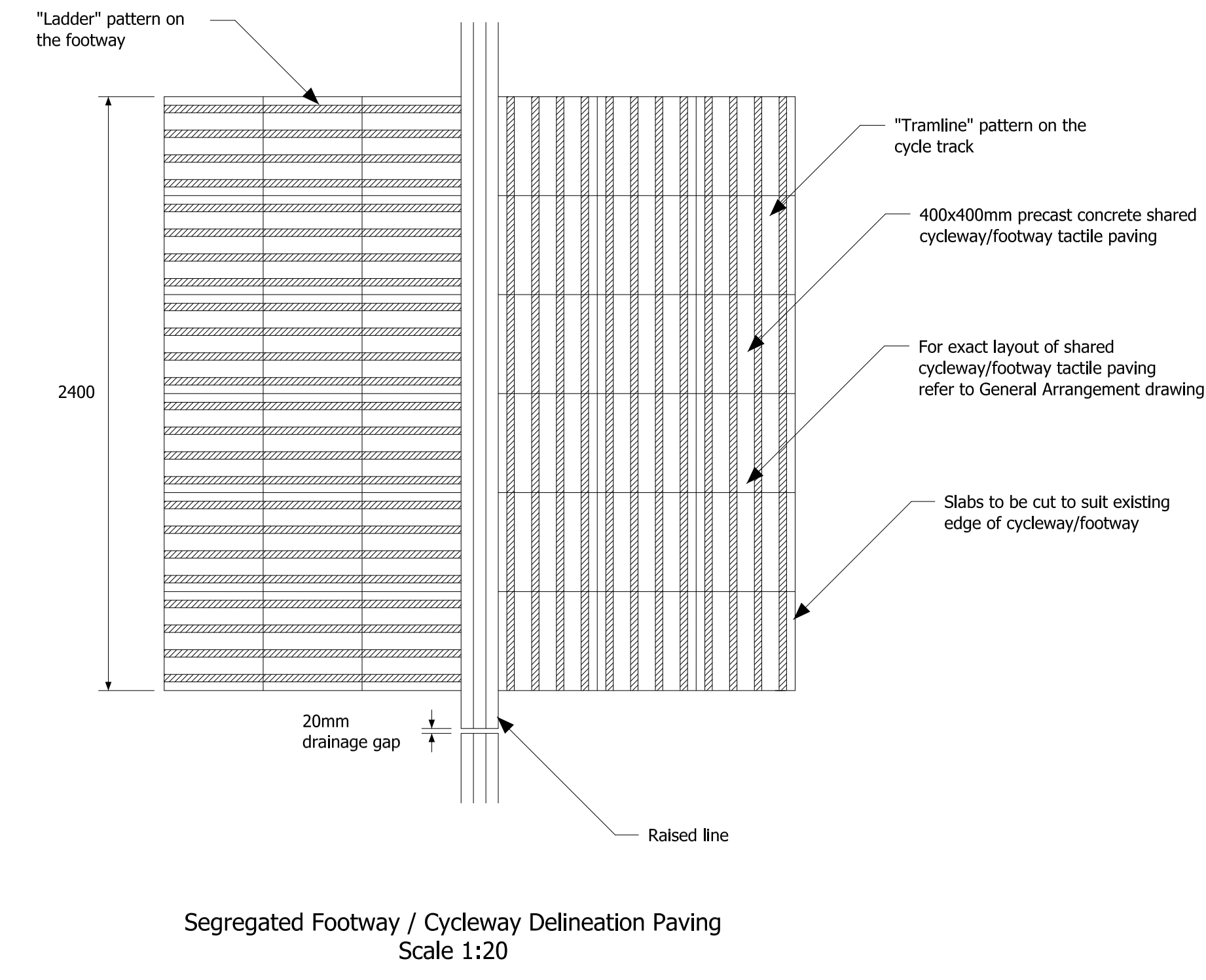
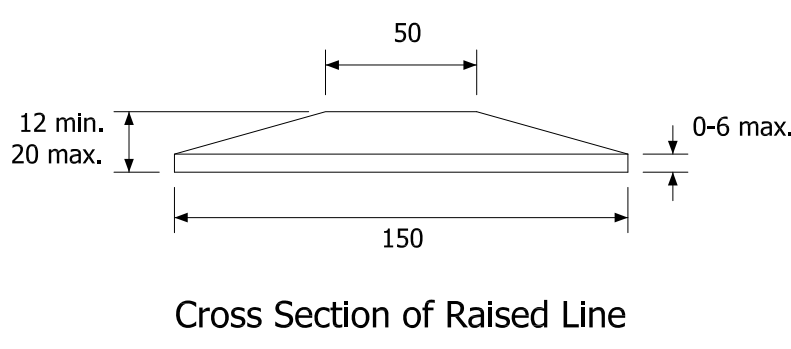
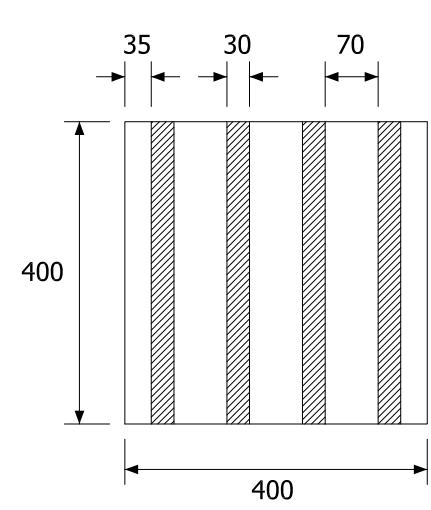
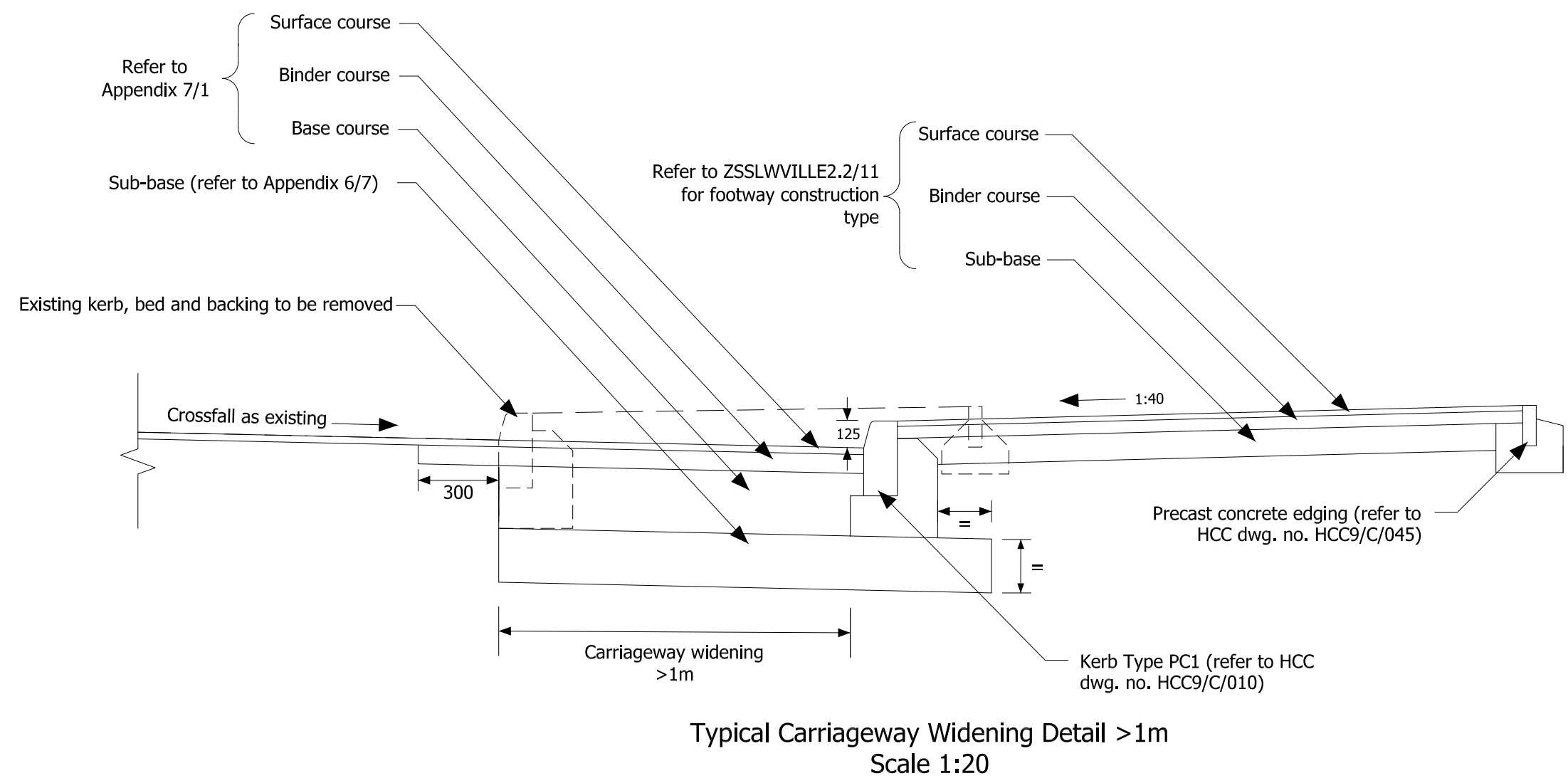
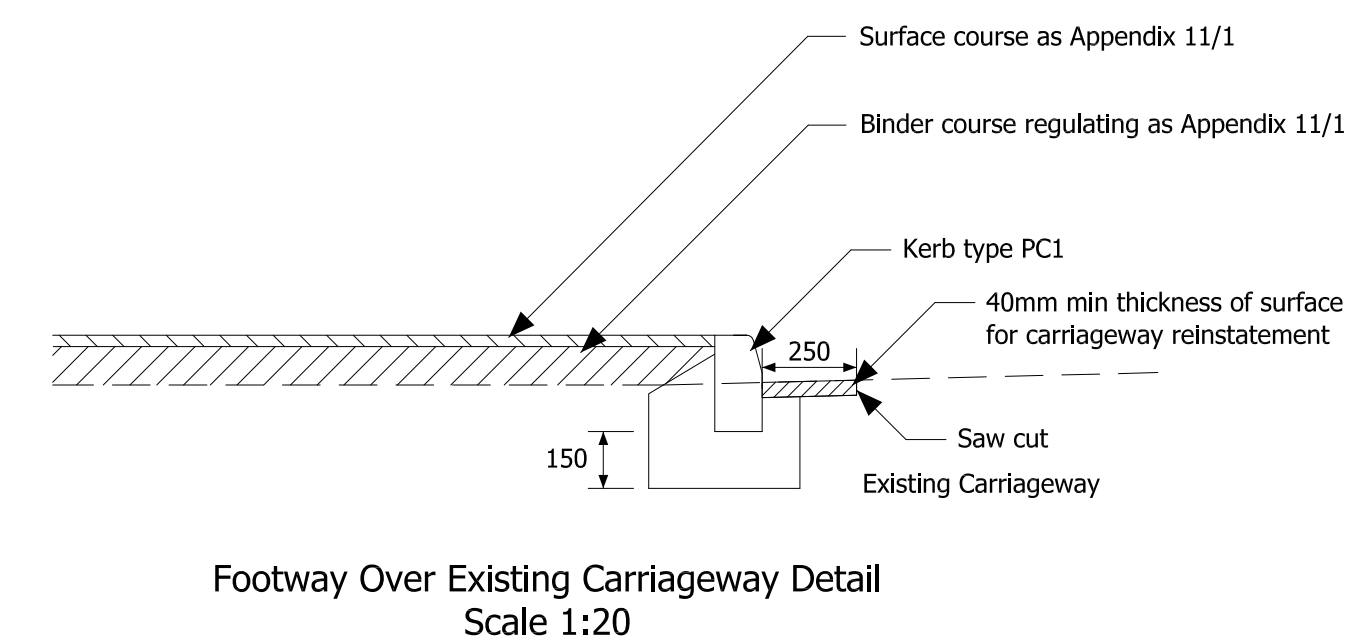
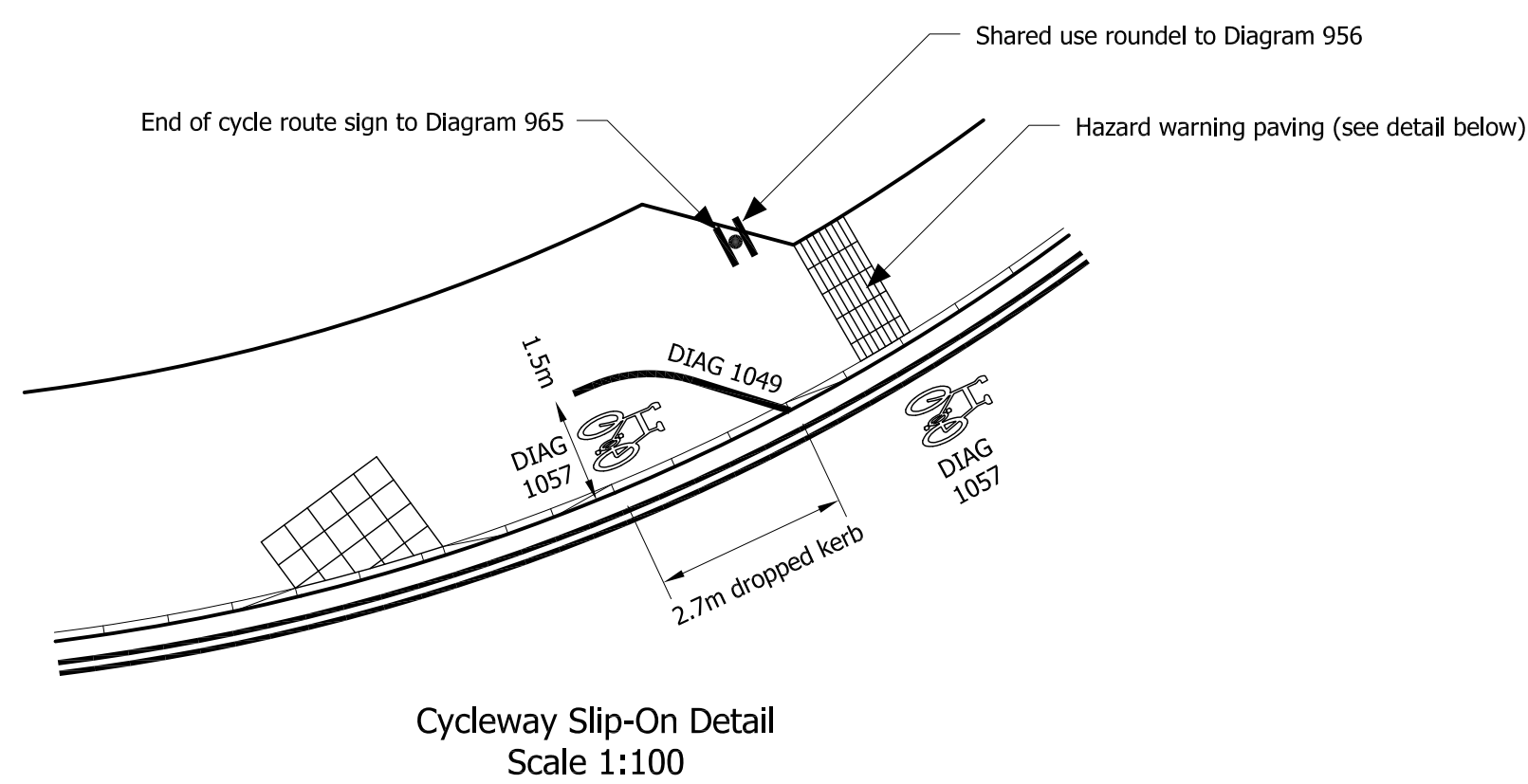
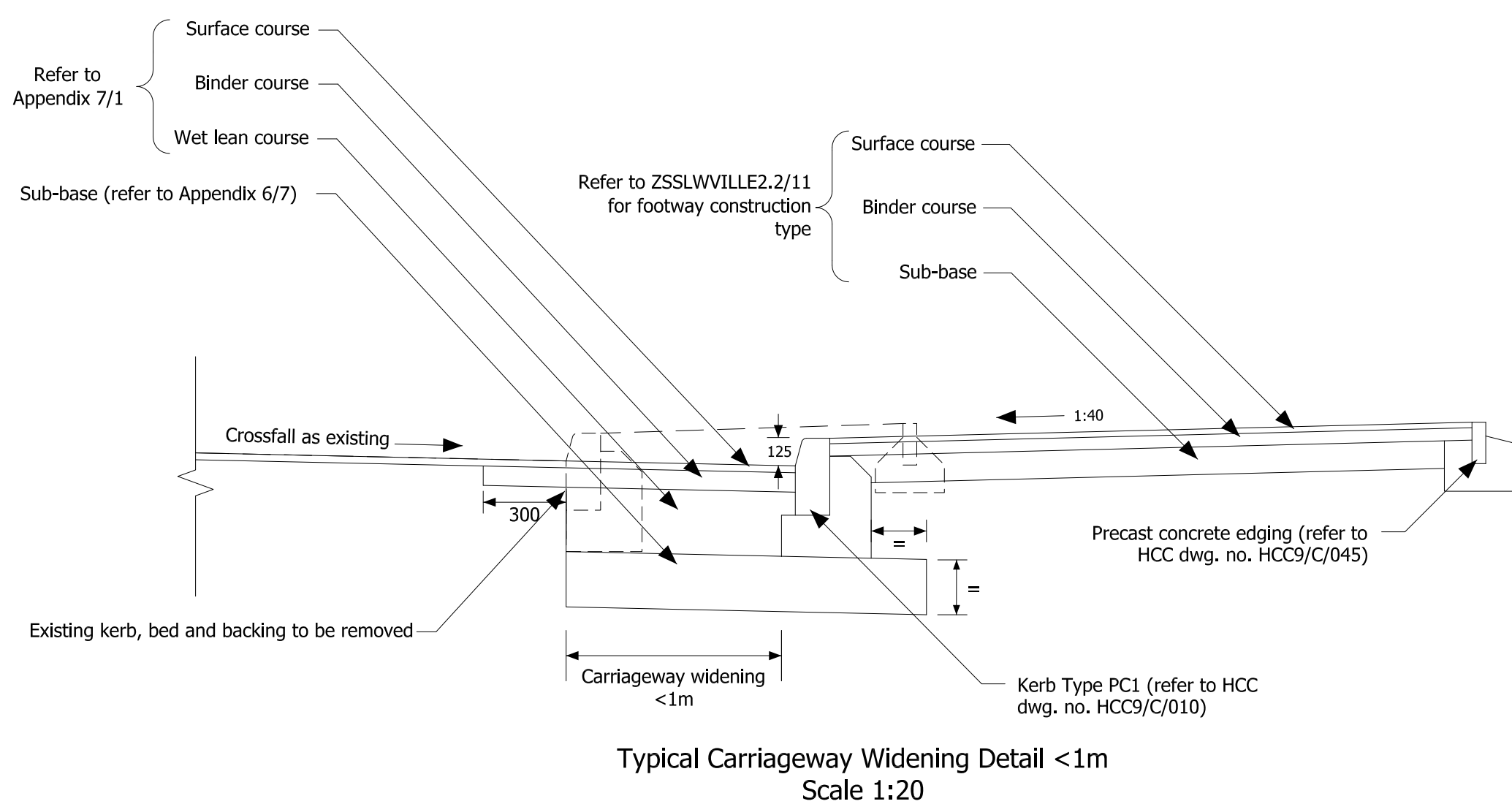
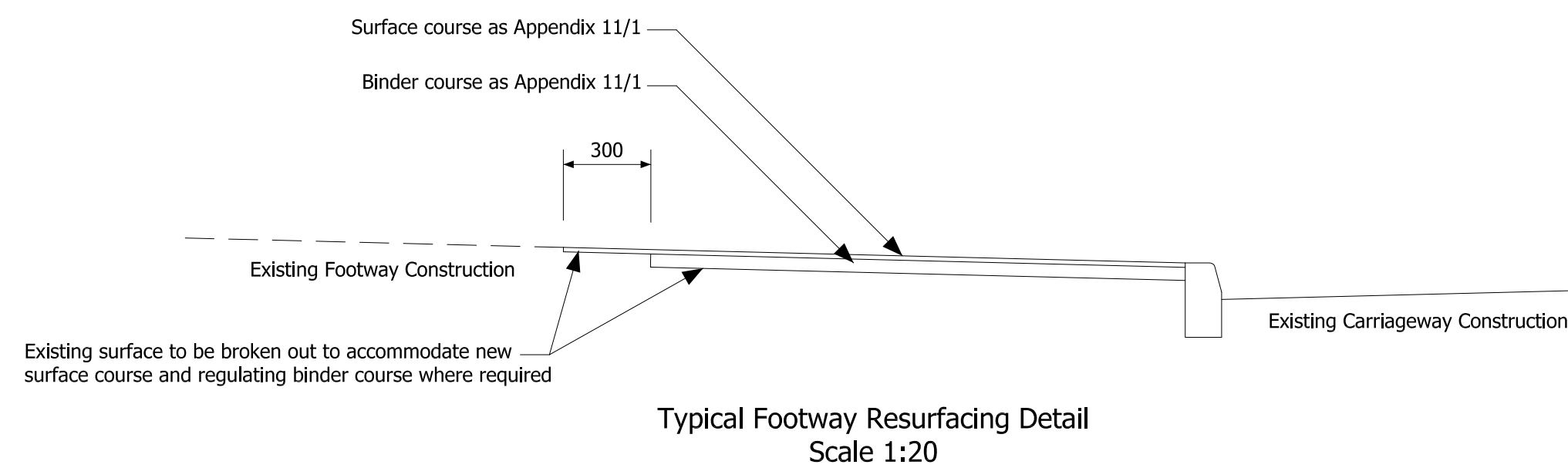
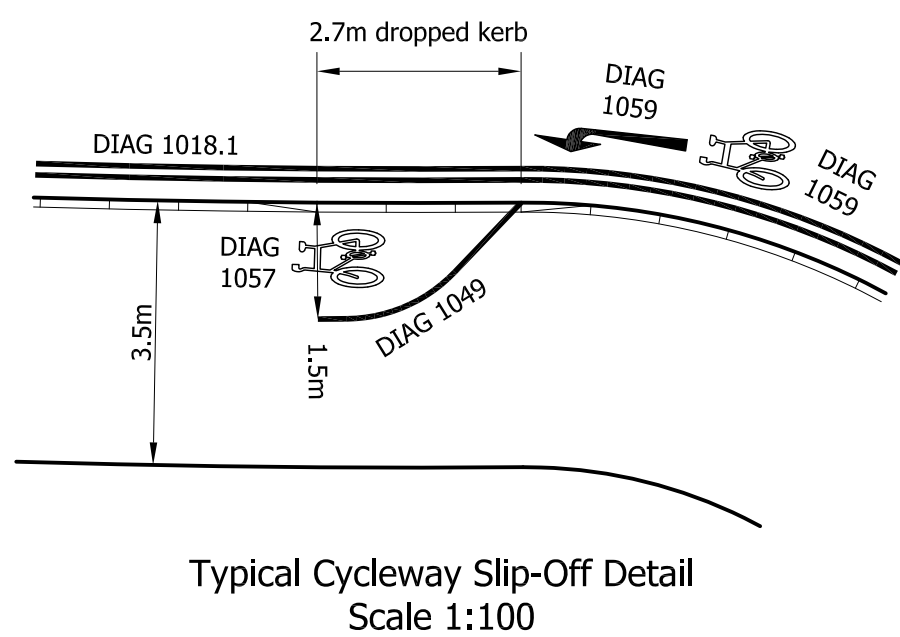
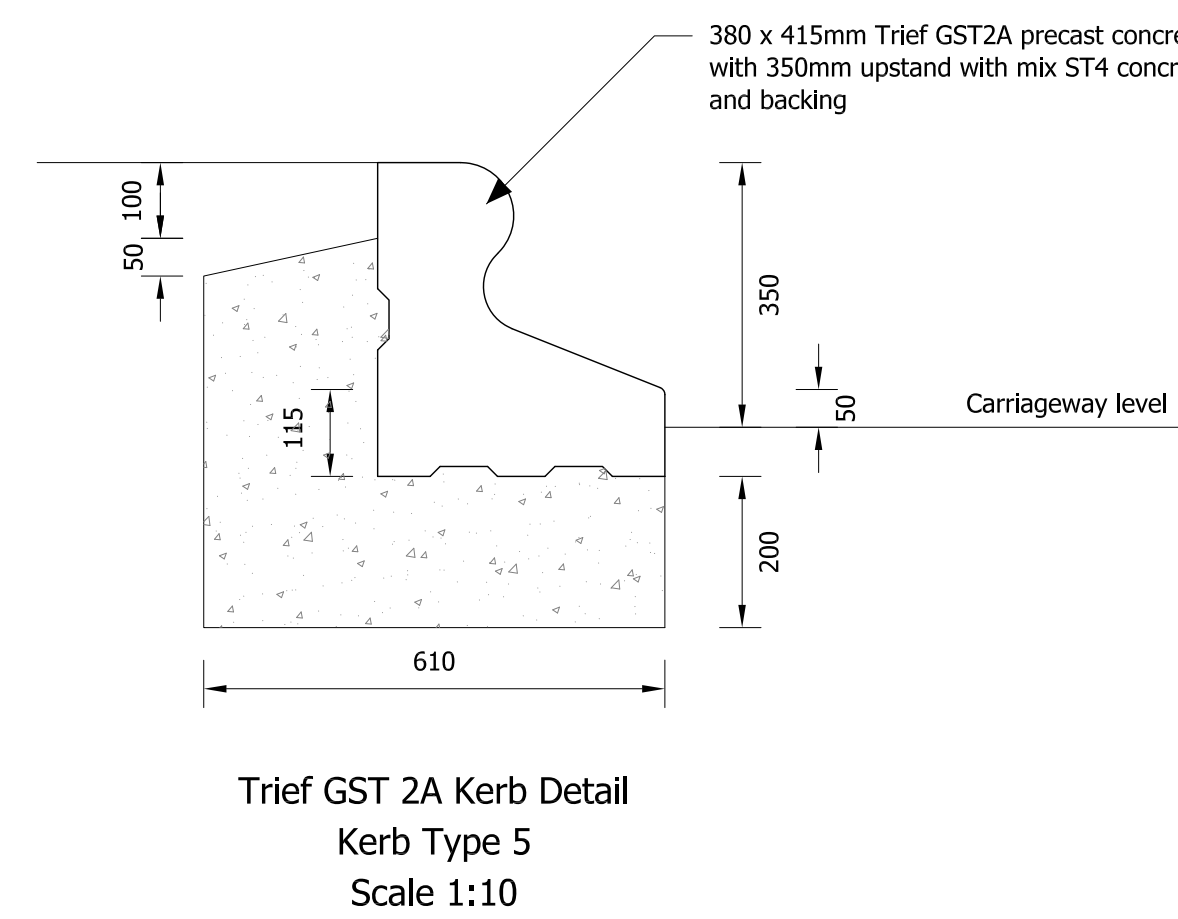
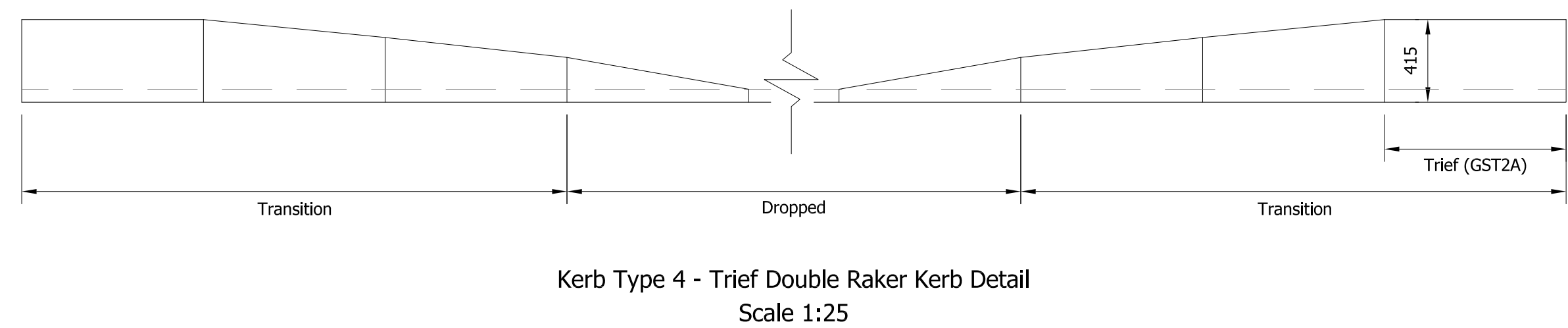
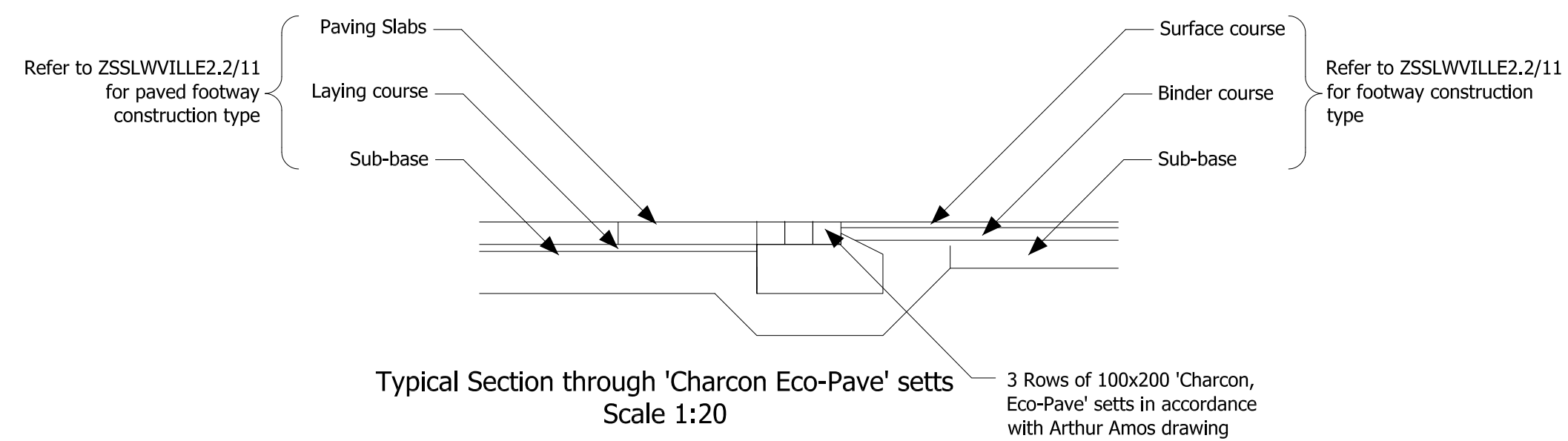
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MB/C/01	A	Site Specific Standard Details	varies	A1

Standard Details (Supplied) – Hampshire County Council

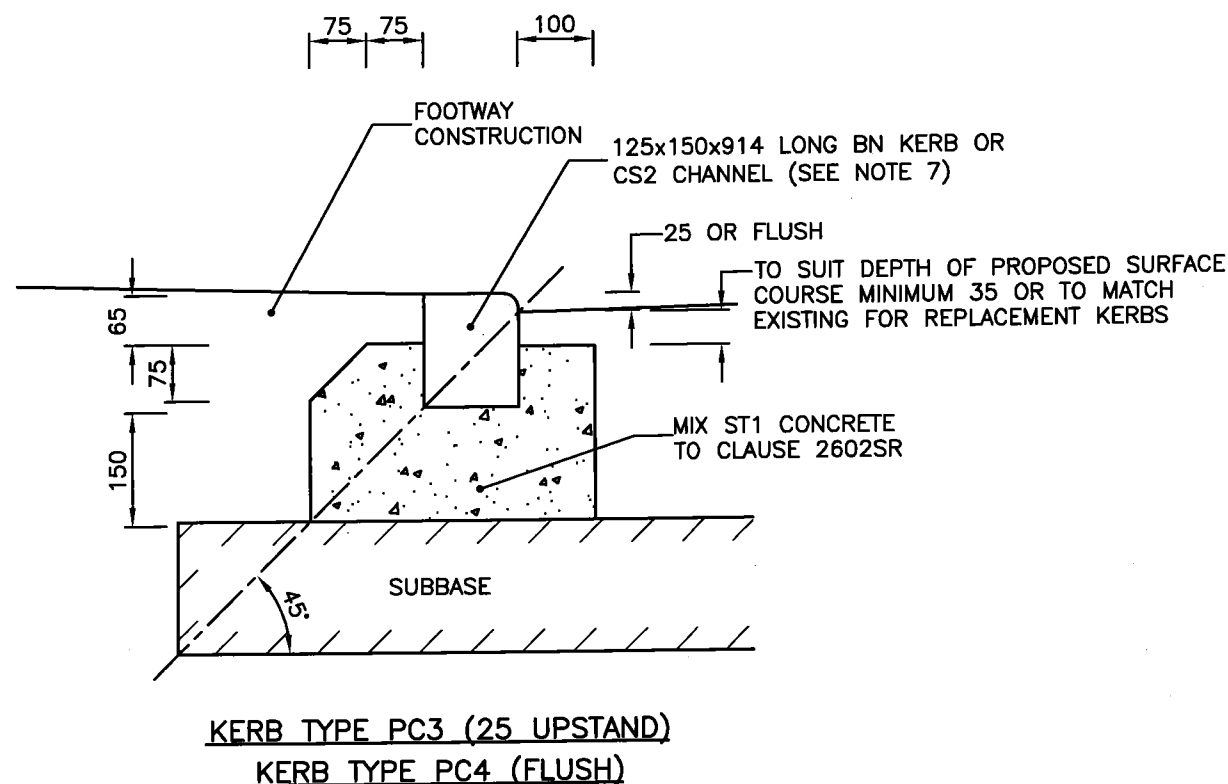
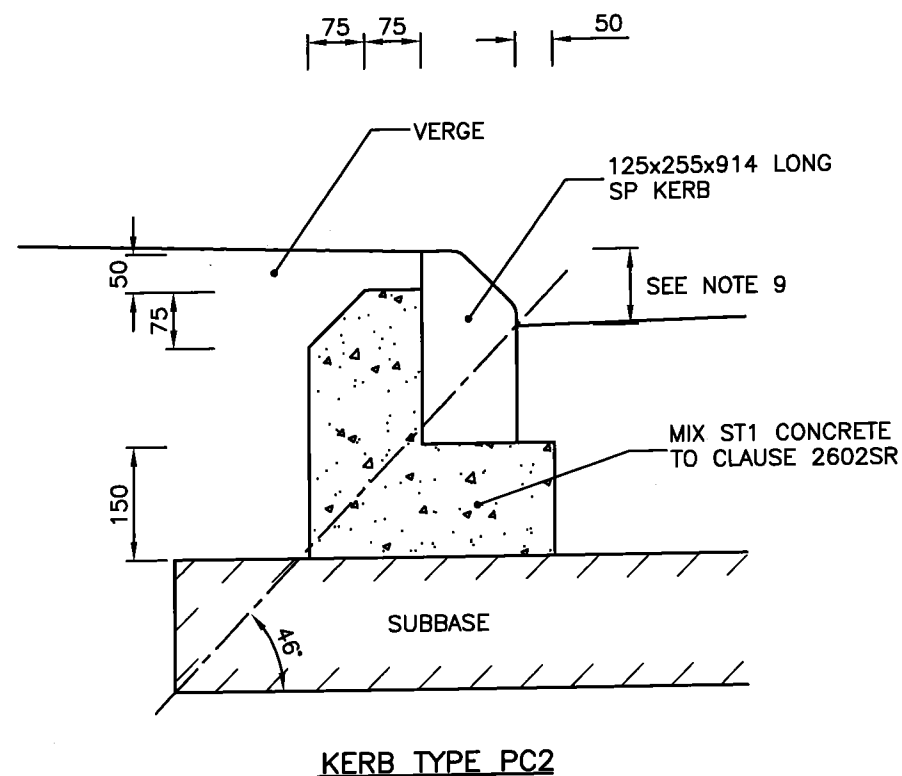
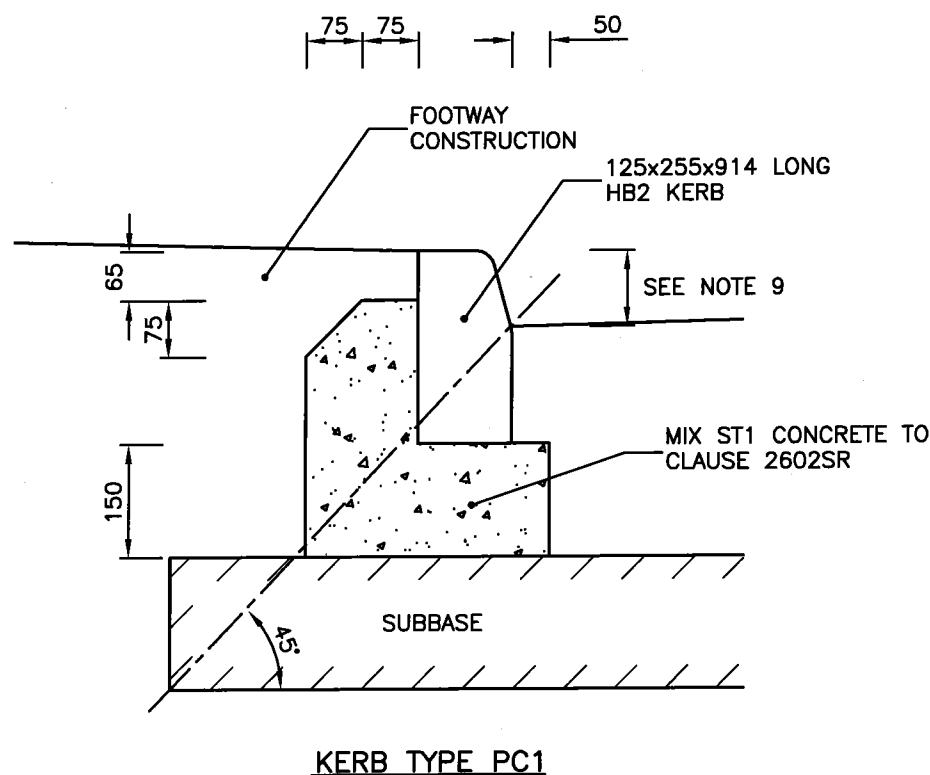
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HCC9/C/045 Rev C	Footways Type 1A, 1B, 2 and 3	N.T.S	A4
HCC9/C/055 Rev C	Footway Type 5, Type 6A and Type 6B – Strengthened	N.T.S	A4
HCC9/C/060 Rev B	Uncontrolled Pedestrian Crossing In New Works	N.T.S	A4
HCC9/C/065 Rev B	Uncontrolled Pedestrian Crossing In Existing Footway	N.T.S	A4
HCC9/C/070 Rev B	Uncontrolled Pedestrian Crossing Installed Within Footway Type 2	N.T.S	A4
HCC9/C/075 Rev B	Pedestrian Refuge Island Types 1A to 8A With Non-illuminated Bollards	N.T.S	A4
HCC9/C/090 Rev B	Reinstatement Of Drain And Duct Trenches In Existing Carriageways	N.T.S	A4
HCC9/C/095 Rev B	Reinstatement of Drain and Duct Trenches in Existing Footway	N.T.S	A4
HCC9/C/135	High Visibility Pedestrian Guard Rail	N.T.S	A4
HCC9/C/140 Rev B	Traffic Signing Post Foundations	N.T.S	A4
HCC9/C/145 Rev A	HCC Scheme Sign Boards Types 1 and 2	N.T.S	A4
Drainage Construction Details			
HCC9/D/015 Rev B	Gully Type 1	1:20	A4
HCC9/D/045 Rev B	Manhole Types M1A, M1B & M1C (Precast Concrete depth exceeding 1.5m But Not 3.0m)	N.T.S	A4
Street Lighting Construction Details			
HCC9/L/015 Rev B	Column Types 2A Tubular Steel Planted Columns	N.T.S	A4
HCC9/L/020 Rev B	Column Types 2B Tubular Steel Planted Columns	N.T.S	A4
HCC9/L/025 Rev B	Planted Column Erection Details for Locations in Paved Areas	N.T.S	A4
HCC9/L/026 Rev B	Planted Column Erection Details for Locations in Un-paved Areas	N.T.S	A4
HCC9/L/045 Rev B	Column Type 3 Tubular Steel Planted Columns for Residential Roads	N.T.S	A4
HCC9/L/050 Rev B	Externally Illuminated Sign Mounted on Steel Post and Foundation Details	N.T.S	A4
HCC9/L/060 Rev A	Internally Illuminated Bollard Details	N.T.S	A4
HCC9/L/065 Rev B	Termination of (S.W.A). Cables in Columns or Posts for a Private Network	N.T.S	A4
HCC9/L/070 Rev A	Underground Cabling For Private Cable Networks	N.T.S	A4
HCC9/L/075	Street Lighting Drawpit Type 2	N.T.S	A4
HCC9/L/080 Rev A	Typical Base Compartment Arrangement for Columns or Posts With Scottish and Southern Energy PLC Service	N.T.S	A4
HCC9/L/085 Rev A	Steel Wire Armour Cable Method of Termination for Private Networks	N.T.S	A4
HCC9/L/090 Rev A	General Feeder Pillar Details	N.T.S	A4

HCC9/L/160 Rev A	Numbering Specification for Illuminated Furniture Mounted in Footways	N.T.S	A4
HCC9/L/170	Areas to be Kept Clear of Trees and Shrubs	N.T.S	A4
Minor Maintenance Details			
HCC9/M/005 Rev A	Kerb Replacement (On New Base)	N.T.S	A4
HCC9/M/010 Rev A	Kerb Replacement (On Existing Base)	N.T.S	A4
HCC9/M/020 Rev C	Carriageway Haunch Repair Detail	N.T.S	A4
HCC9/M/025 Rev C	Carriageway Repair Details	N.T.S	A4
HCC9/M/035 Rev C	Typical Vehicle Crossing In Existing Footway	N.T.S	A4
Traffic Signal Details			
HCC9/T/005 Rev C	Traffic Signal Drawpit Type 1A & 1B	N.T.S	A4
HCC9/T/010 Rev C	Traffic Signal Drawpit Type 2	N.T.S	A4
HCC9/T/020 Rev A	Details of Traffic Signal Controller Chambers Types A and B	N.T.S	A4
HCC9/T/025 Rev B	Details of Traffic Signal Pole Connection	N.T.S	A4
HCC9/T/030	Details of Connection of Vehicle Detector Loop	N.T.S	A4
HCC9/T/035 Rev C	Traffic Signal Retention Pole Sockets	N.T.S	A4
HCC9/T/040 Rev B	Puffin/Pelican/Toucan Crossing Layout Details	N.T.S	A4
HCC9/T/045	Power Supply Pillar	N.T.S	A4
HCC9/T/055 Rev A	Traffic Signal Duct Details	N.T.S	A4



FOR APPROVAL
NOT FOR CONSTRUCTION

A	Footway over carriageway and crossing details amended following comments from HCC dated 13/11/12. (QJN)	AB	08/01/13
rev.	amendment	checked	date
 Mayer Brown Limited, Lion House, Central Road, Woking, Surrey, GU24 8AR. Telephone 01483 750 508 Fax 01483 750 437. wokingoffice@mayerbrown.co.uk www.mayerbrown.co.uk			
client	SAINSBURY'S SUPERMARKETS LIMITED		
project	HAMBLEDON ROAD, WATERLOOVILLE S278 AGREEMENT HIGHWAY IMPROVEMENTS		
scale	AS SHOWN @ A0	drawn by	QJN
date	JULY 2012	checked by	AB
title	SITE SPECIFIC CONSTRUCTION DETAILS		
drawing number	MB/C/01		
rev.	A		



NOTES:

- ALL DIMENSIONS ARE IN MILLIMETRES.
- KERBS SHALL BE PRECAST CONCRETE KERBS COMPLYING WITH BS EN 1340. WEATHERING RESISTANCE: CLASS 3. BENDING STRENGTH: CLASS 2. ABRASION RESISTANCE: CLASS 3. SLIP/SKID RESISTANCE: MIN P.P.T.V. 45 TO BS 7932.
- MIX ST1 CONCRETE KERB BEDDING TO CLAUSE 2602SR SHALL BE LAID ON SUBBASE AND SHALL BE A MINIMUM THICKNESS OF 150. SUBBASE SHALL BE EXCAVATED WHERE NECESSARY TO ACHIEVE 150 THICKNESS. RECOMPACT DISTURBED SUBBASE PRIOR TO CONSTRUCTION OF KERB BASE.
- WHERE EXCAVATION INTO EXISTING CARRIAGEWAY IS REQUIRED A TRENCH SHALL BE EXCAVATED OF SUFFICIENT DEPTH AND WIDTH TO ACCOMMODATE THE COMPLETE BED AND BACKING OF THE KERB TYPE SCHEDULED. (SEE DWG No HCC9/M/010)
- AS DESCRIBED IN CLAUSE 1101, SUB-CLAUSE 1, KERBS MAY BE LAID AND BEDDED ON MORTAR OR LAID DIRECTLY ONTO STILL PLASTIC CONCRETE BED AS ILLUSTRATED HERE.
- THE APPROPRIATE 914 LONG PRECAST CONCRETE TRANSITION KERB SHALL BE INSTALLED AT EACH CHANGE IN KERB TYPE, TIE-INS TO EXISTING AND AT TERMINATIONS.
- UNLESS SPECIFIED ELSEWHERE FOR KERB TYPE PC4 (FLUSH) 125 x 150 x 914 CS2 SQUARE CHANNELS TO BE USED.
- THE MINIMUM LENGTH OF ANY CUT KERB SHALL BE 450.
- THE KERB UPSTAND FOR TYPES PC1 AND PC2 SHALL BE 100 UNLESS OTHERWISE STATED, EXCEPT OVER BRIDGES WHERE IT SHALL BE 75 ALONG THE LENGTH OF THE PARAPET.

A	PC3/4 DETAIL AND NOTE 9 AMENDED	DEC. 08	MT	MT	MT
	AMENDMENT	DATE	DRAWN	CHKD	APPD

CONSULTANT

ALISON QUANT BSc MSc MRTP, DIRECTOR OF ENVIRONMENT, THE CASTLE, WINCHESTER.

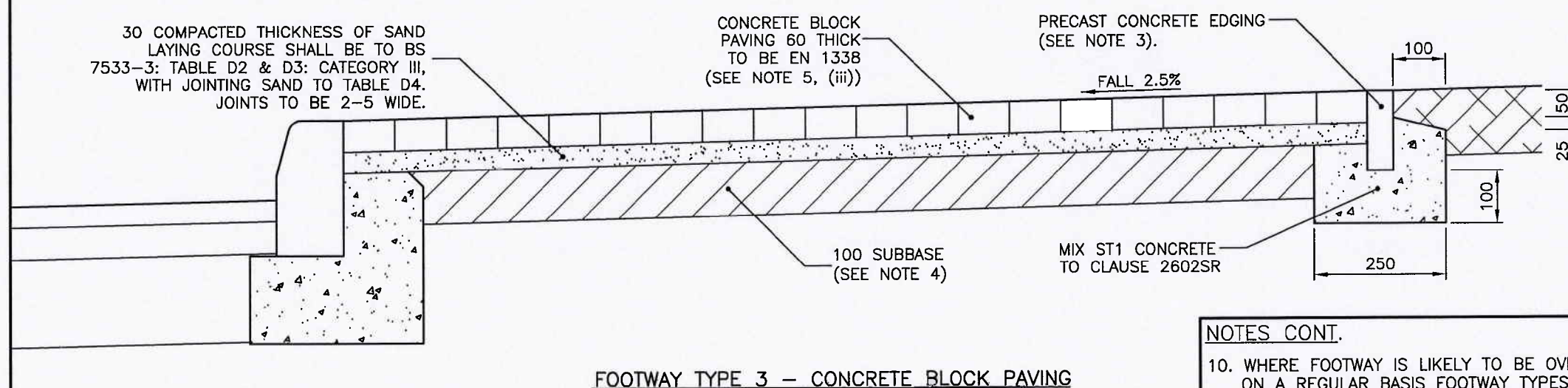
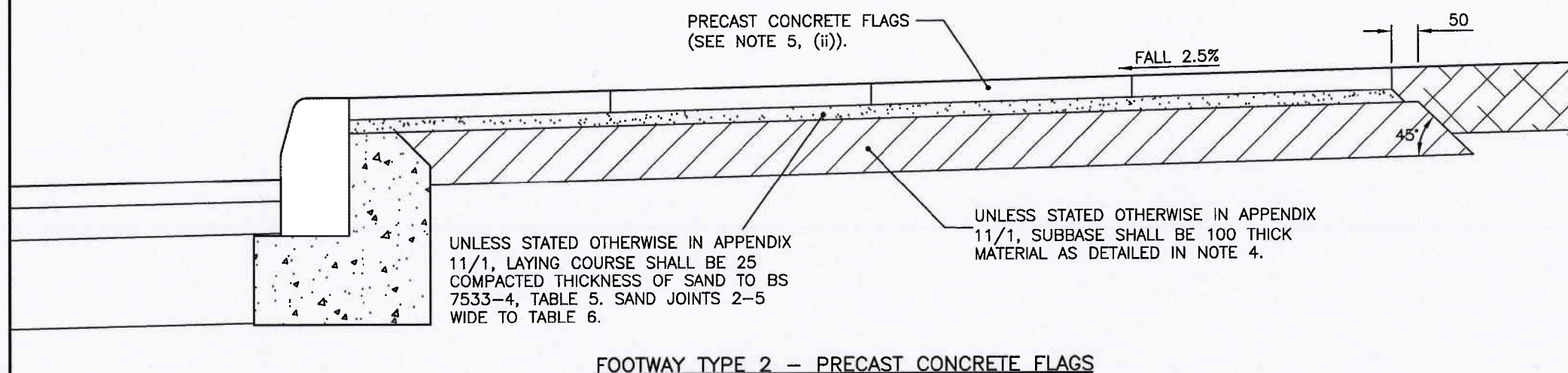
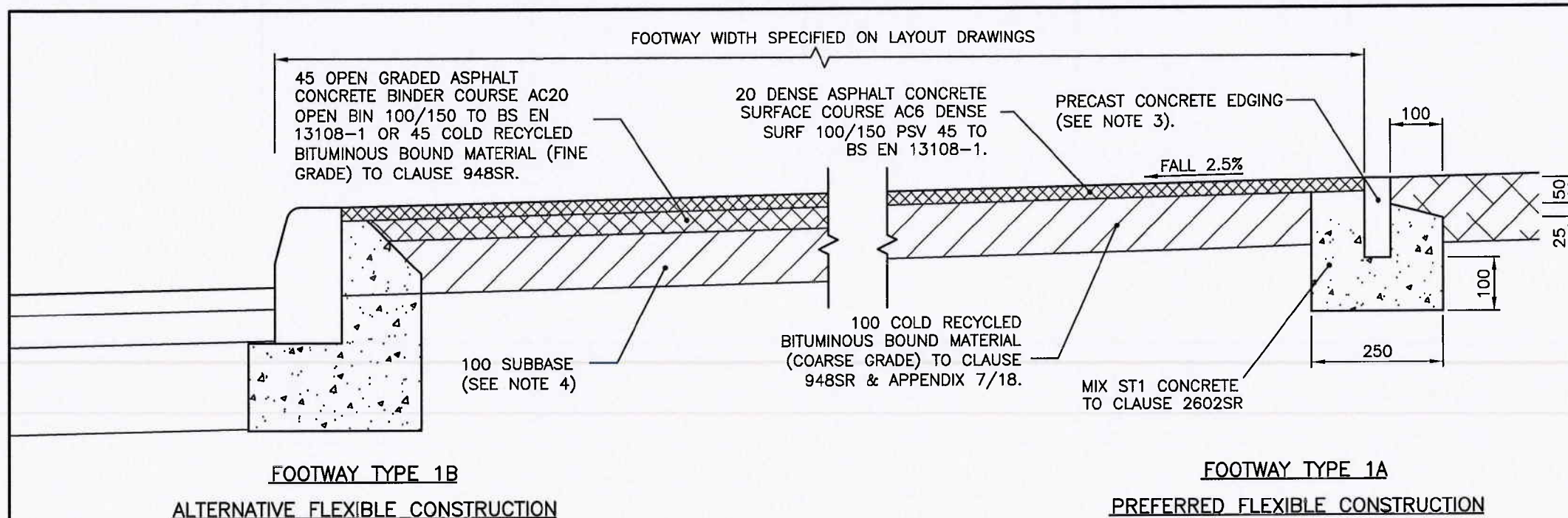
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STANDARD DETAILS

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PRECAST CONCRETE KERB

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CAD	APPROVED	DATE
TRK	TPW, TPW	MAY 2007
DRG No.		REVISION
HCC9/C/010		A

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NOTES CONT.

10. WHERE FOOTWAY IS LIKELY TO BE OVER-RIDDEN ON A REGULAR BASIS FOOTWAY TYPES 5, 6A OR 6B SHALL BE USED (SEE HCC9/C/055).
11. WHERE FOOTWAYS ARE TO BE CONSTRUCTED IN AREA OF PLASTIC CLAY, IN FLOOD PLAINS, NEAR TREES WITH A HIGH WATER DEMAND, NEAR EMBANKMENTS OR ON LOW BEARING CAPACITY SOILS, THE FOOTWAY CONSTRUCTION SHOULD BE REINFORCED TO PREVENT CONSEQUENTIAL SHRINKAGE CRACKING (SEE NOTES FOR GUIDANCE FOR MORE INFORMATION).

NOTES:

1. ALL DIMENSIONS ARE IN MILLIMETRES.
2. SEE ALSO APPENDIX 11/1.
3. PRECAST CONCRETE EDGINGS SHALL BE 150x50 TYPE EF TO BS EN 1340.
WEATHERING RESISTANCE: CLASS 3
BENDING STRENGTH: CLASS 2
ABRASION RESISTANCE: CLASS 3.
SLIP/SKID RESISTANCE: MIN P.P.T.V. 45 TO BS 7932.
4. SUBBASE SHALL BE ONE OF THE MATERIALS COMPLYING WITH CLAUSE 891AR, 892AR OR 893AR.
5. (i) FOOTWAY TYPE 1A AND 1B SHALL BE IN ACCORDANCE WITH CL. 1105. TREATMENT OF LAYERS AND JOINTS TO BE IN ACCORDANCE WITH CL 903.
(ii) FOOTWAY TYPE 2 SHALL BE IN ACCORDANCE WITH CL. 1104 AND FLAGS TO BS EN 1339
TENSILE SPLITTING STRENGTH: MIN. 3.6(Mpa)
WEATHERING RESISTANCE: CLASS 3
SLIP/SKID RESISTANCE: MIN PPTV 45 TO BS 7932.
(iii) FOOTWAY TYPE 3 SHALL BE IN ACCORDANCE WITH CL. 1107 AND BLOCKS TO BS EN 1338
BENDING TENSILE STRENGTH: CLASS 3
WEATHERING RESISTANCE: CLASS 3
SLIP/SKID RESISTANCE: MIN PPTV 45 TO BS 7932.
6. THESE DETAILS SHOW FOOTWAYS ABUTTING CARRIAGEWAY. WHERE FOOTWAY DOES NOT ABUT THE CARRIAGEWAY, BOTH EDGE TREATMENTS SHALL BE AS DETAILED ON THE RIGHT HAND SIDE OF THE SECTION.
7. WHERE DETAILED IN APPENDIX 11/1 GEOTEXTILE OR ROOT BARRIER SHALL BE INSTALLED AT FOOTWAY FORMATION.
8. KERB TYPE SHALL BE AS SPECIFIED ON LAYOUT DRAWINGS.
9. WHEN EXCAVATING TO FOOTWAY FORMATION THE FULL DEPTH OF EXISTING TOPSOIL SHALL BE REMOVED. ANY ADDITIONAL DEPTH OF EXCAVATION RESULTING FROM THIS SHALL BE BACKFILLED WITH SUBBASE AS NOTE 4.

C	FOOTWAY TYPE 1 PREFERENCE, SAND BED JOINTING AND NOTES 4 & 5 AMENDED.	DEC. 11	MT	MT	PS
B	BINDER COURSE, NOTES 5 & 10 AMENDED	DEC. 08	MT	MT	PS
A	SURFACE AND BINDER COURSE NOTES AMENDED	JAN. 08	MT	MT	TPW
	AMENDMENT	DATE	DRAWN	CHKD	APPD

CONSULTANT



ALISON QUANT BSc MSc MRTP, DIRECTOR OF ENVIRONMENT, THE CASTLE, WINCHESTER.

SCHEME

STANDARD DETAILS

DRAWING TITLE

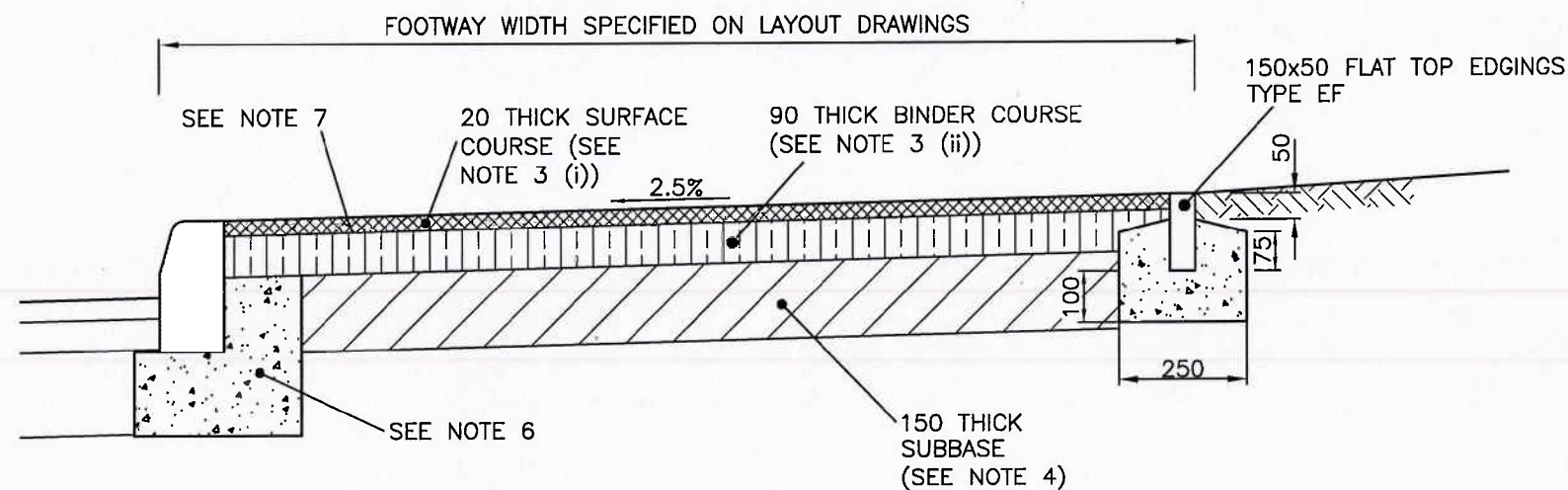
FOOTWAYS TYPE 1A, 1B, 2 AND 3

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DRG No.	HCC9/C/045					REVISION	C

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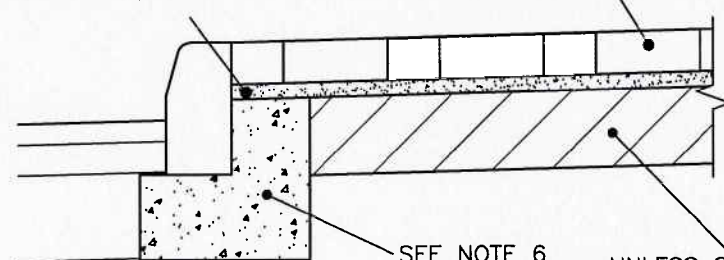


FOOTWAY TYPE 5 – STRENGTHENED FLEXIBLE CONSTRUCTION

30 SAND LAYING COURSE SHALL BE TO BS 7533-3: TABLE D2 & D3: CATEGORY II, WITH JOINTING SAND TO TABLE D4. JOINT WIDTH TO BE 2-5.

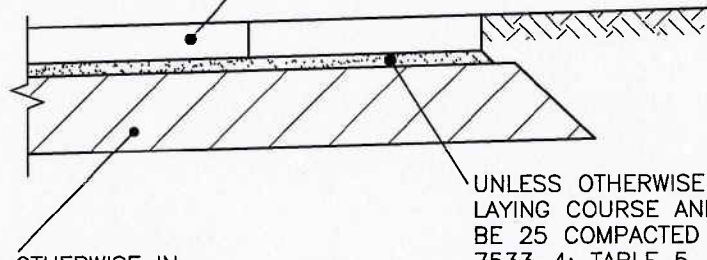
CONCRETE BLOCK 80 THICK TO BS EN 1338, LAID TO 90° HERRINGBONE PATTERN.

MARSHALLS 'TRAFFICA' VERSION OR EQUIVALENT PRECAST CONCRETE FLAGS TO BS EN 1339 AS SPECIFIED IN APPENDIX 11/1.



**FOOTWAY TYPE 6A
STRENGTHENED
CONCRETE BLOCK PAVING**

UNLESS STATED OTHERWISE IN APPENDIX 11/1 SUBBASE SHALL BE MATERIAL AS DETAILED IN NOTE 5.



**FOOTWAY TYPE 6B
STRENGTHENED
PRECAST CONCRETE FLAG PAVING**

NOTES CONT.

8. WHERE FOOTWAY CONSTRUCTION TYPE 5 IS TO BE CONSTRUCTED IN AREA OF PLASTIC CLAY, IN FLOOD PLAINS, NEAR TREES WITH A HIGH WATER DEMAND, NEAR EMBANKMENTS OR ON LOW BEARING CAPACITY SOILS, THE FOOTWAY CONSTRUCTION SHOULD BE REINFORCED TO PREVENT CONSEQUENTIAL SHRINKAGE CRACKING (SEE NOTES FOR GUIDANCE FOR MORE INFORMATION).

NOTES:

1. ALL DIMENSIONS ARE IN MILLIMETRES.
2. EXCEPT WHERE OTHERWISE SHOWN ON THE LAYOUT DRAWINGS, KERBS AND EDGINGS SHALL BE IN ACCORDANCE WITH CLAUSE 1101.
3. UNLESS OTHERWISE STATED IN APPENDIX 11/1 FOOTWAY TYPE 5 SURFACE AND BINDER COURSE MATERIALS SHALL BE AS FOLLOWS:
(i) SURFACE COURSE:- DENSE ASPHALT CONCRETE AC6 DENSE SURF 100/150 PSV 45 TO BS EN 13108-1
(ii) BINDER COURSE:- DENSE ASPHALT CONCRETE AC20 DENSE BIN 100/150 TO BS EN 13108-1 OR HEAVY DUTY COLD RECYCLED BITUMINOUS BASE (COARSE GRADE) TO CLAUSE 948SR.
4. SUBBASE FOR TYPE 5 FOOTWAY TO BE 150 COLD RECYCLED BITUMINOUS BASE MATERIAL TO CL. 948SR AND APPENDIX 7/18. SUBJECT TO THE APPROVAL OF THE OVERSEEING ORGANISATION MATERIALS INCLUDED IN NOTE 5 MAY BE USED IF CONDITIONS ARE NOT SUITABLE FOR LAYING CRBBM.
5. UNLESS OTHERWISE STATED IN APPENDIX 11/1. SUBBASE FOR TYPE 6A AND 6B FOOTWAY SHALL BE 150 MATERIAL COMPLYING WITH CLAUSE 891AR, 892AR OR 893AR.
6. BED AND BACKING TO EDGINGS SHALL BE MIX ST1 CONCRETE TO CLAUSE 2602SR.
7. TREATMENT OF BITUMINOUS SURFACES AND VERTICAL JOINTS SHALL BE IN ACCORDANCE WITH CL 903.

C	NOTE 5 AND SAND BED NOTES AMENDED AND NOTE 8 ADDED	DEC. 11	MT	MT	PS
B	NOTE 7 ADDED	DEC. 08	MT	MT	PS
A	SURFACE AND BINDER COURSE NOTES AMENDED	JAN. 08	MT	MT	TPW
AMENDMENT		DATE	DRAWN	CHKD	APPD

CONSULTANT



ALISON QUANT BSc MSc MRPL DIRECTOR OF ENVIRONMENT, THE CASTLE, WINCHESTER.

SCHEME

STANDARD DETAILS

DRAWING TITLE

**FOOTWAY TYPE 5,
TYPE 6A AND 6B
– STRENGTHENED**

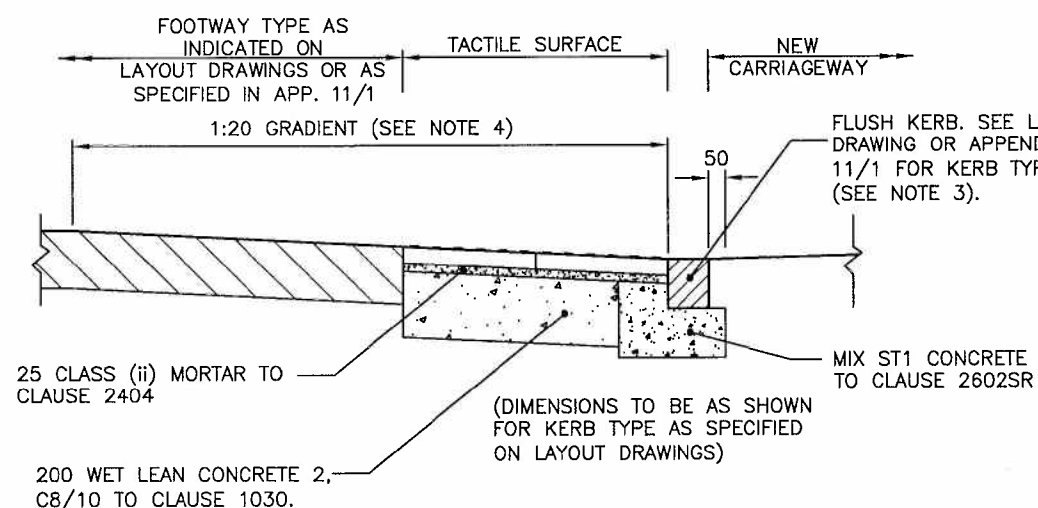
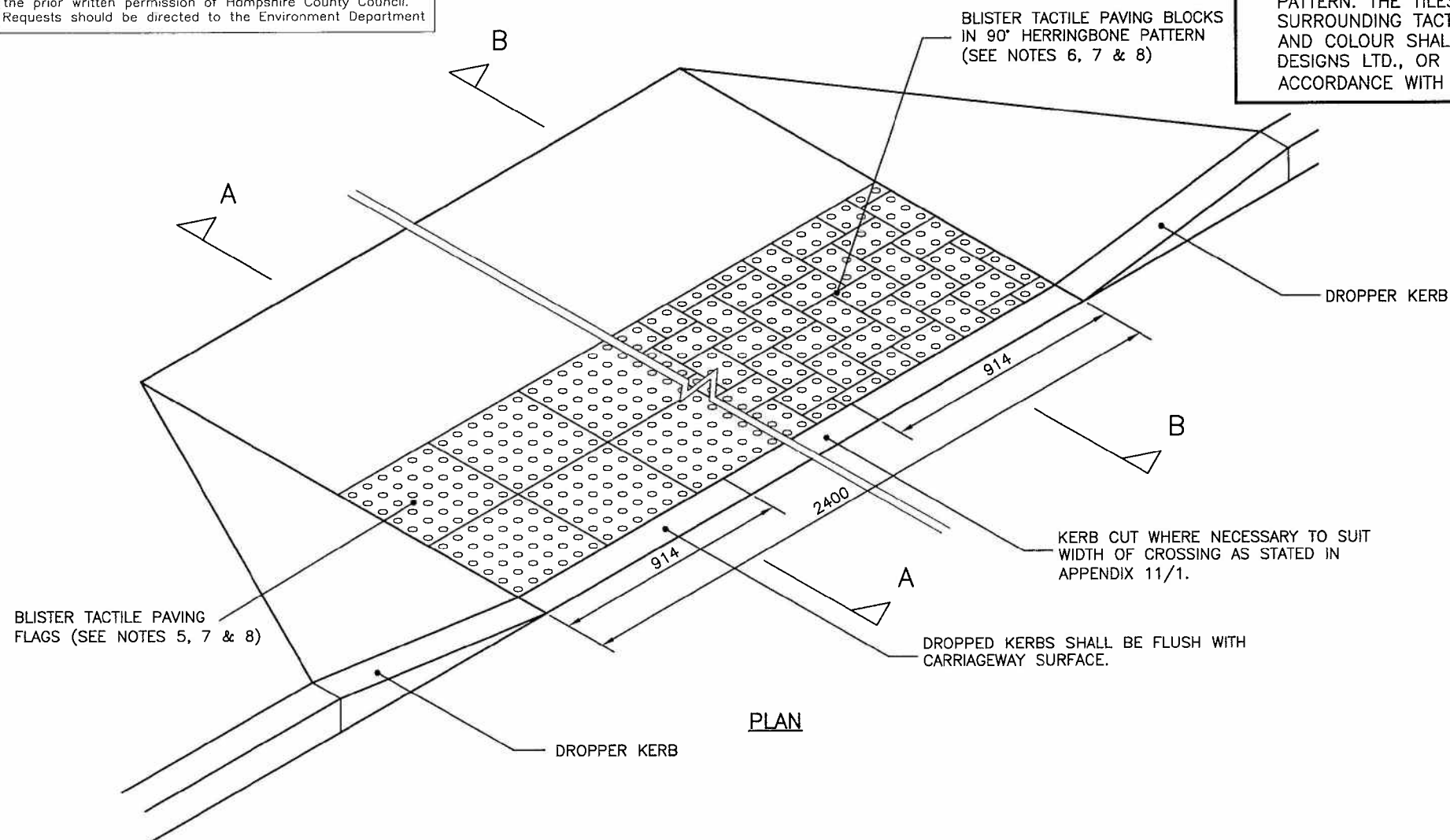
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	CAD	TRK	APPROVED	TPW, TPW	DATE		APR. 2007
	DRG No.	HCC9/C/055				REVISION	C

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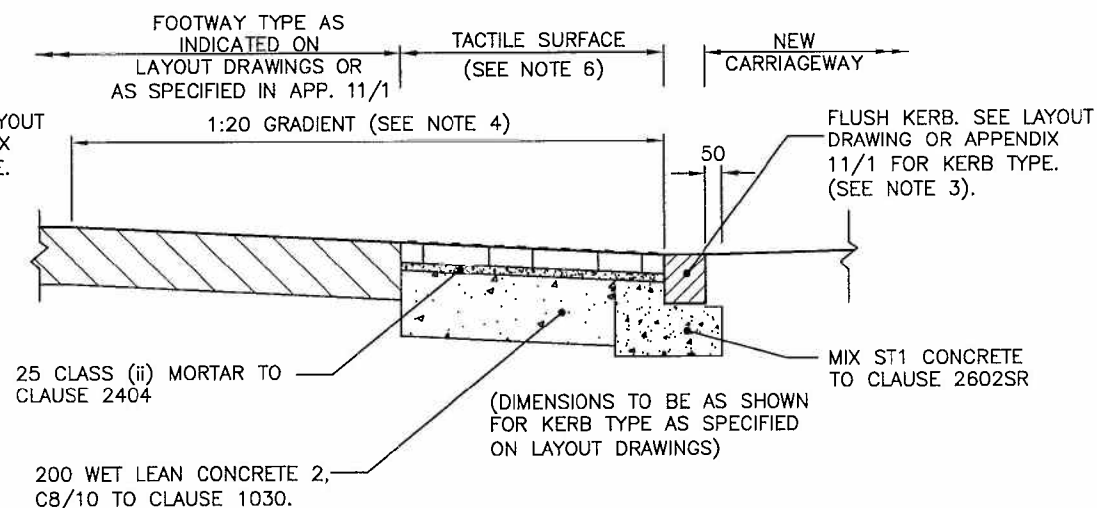
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10. WHERE A SERVICE COVER OCCURS WITHIN AN AREA OF TACTILE FLAG PAVING THE CONTRACTOR SHALL APPLY 'STICK-ON' TILES TO THE SURFACE AREA OF THE COVER TO PROVIDE CONTINUITY OF PATTERN. THE TILES SHALL MATCH THE SURROUNDING TACTILE IN PATTERN, ORIENTATION AND COLOUR SHALL BE AS SUPPLIED BY VISUAL DESIGNS LTD., OR EQUIVALENT. ALL INSTALLED IN ACCORDANCE WITH MANUFACTURER'S INSTRUCTIONS.



SECTION A-A
TACTILE PAVING MODULE TYPE 2



SECTION B-B
TACTILE PAVING MODULE TYPE 3

NOTES:

- ALL DIMENSIONS ARE IN MILLIMETRES.
- UNLESS OTHERWISE STATED IN APPENDIX 11/1, THE WIDTH OF THE DROPPED CROSSING SHALL BE 2400 AS SHOWN ON THIS DETAIL.
- AS DESCRIBED IN CLAUSE 1101, SUB-CLAUSE 1, KERBS MAY BE LAID AND BEDDED ON MORTAR OR LAID DIRECTLY ON TO STILL PLASTIC CONCRETE AS ILLUSTRATED HERE.
- THE GRADIENT OF THE DROPPED CROSSING SHALL BE 1 IN 20, BUT THE OVERSEEING ORGANISATION WILL DETERMINE THE PRECISE GRADIENT ON SITE PRIOR TO CONSTRUCTION.
- UNLESS STATED ON LAYOUT DRAWING OR IN APPENDIX 11/1, TACTILE PAVING SHALL BE BUTT JOINTED BLISTER TACTILE FLAGS MODULE TYPE 2, 400 x 400 x 50 THICK MANUFACTURED TO BS EN 1339 AND DD CEN/TS 15209:2008.
- AT LOCATIONS WHERE THE TACTILE PAVING MAY BE OVERRIDDEN BY HEAVY VEHICLES AND WHERE INDICATED ON THE LAYOUT DRAWINGS OR IN APPENDIX 11/1, MODULE TYPE 3, 200 x 133 x 60 THICK BUTT JOINTED CONCRETE TACTILE PAVING BLOCKS TO BS EN 1338 AND DD CEN/TS 15209:2008 LAID IN 90° HERRINGBONE PATTERN TO THE OVERALL DIMENSIONS SHOWN, SHALL BE USED. CUT BLOCKS SHALL NOT BE LAID IF LESS THAN 1/2 OF A FULL BLOCK.
- ONLY ONE MODULE TYPE SHALL BE USED WITHIN EACH PEDESTRIAN CROSSING
- UNLESS OTHERWISE STATED IN APPENDIX 11/1, BLISTER TACTILE UNITS SHALL BE BUFF COLOURED.
- NOTWITHSTANDING SUB-CLAUSE 5 OF CLAUSE 1101, THE SURFACE LEVEL OF THE DROPPED KERBS AND AT LEAST 5 FULL HEIGHT KERBS EITHER SIDE SHALL NOT DEVIATE FROM THE DESIGN LEVEL.

B	SUBBASE AND NOTES 5 & 6 AMENDED	DEC. 11	MT	MT	PS
A	KERB BED DIMENSION ADDED.	DEC. 08	MT	MT	PS
	AMENDMENT	DATE	DRAWN	CHKD	APPD

CONSULTANT



SCHEME

STANDARD DETAILS

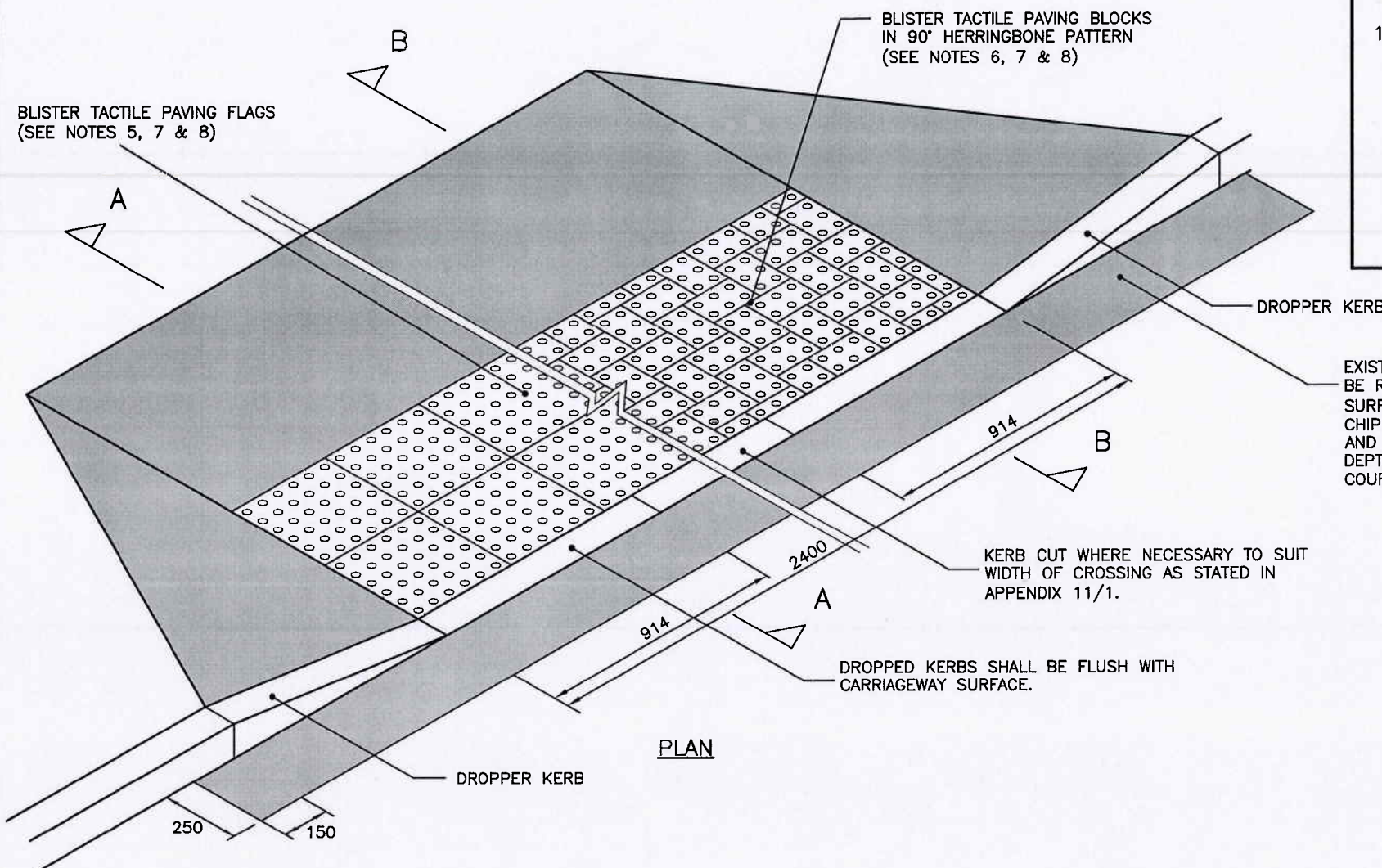
DRAWING TITLE

UNCONTROLLED PEDESTRIAN
CROSSING IN NEW WORKS

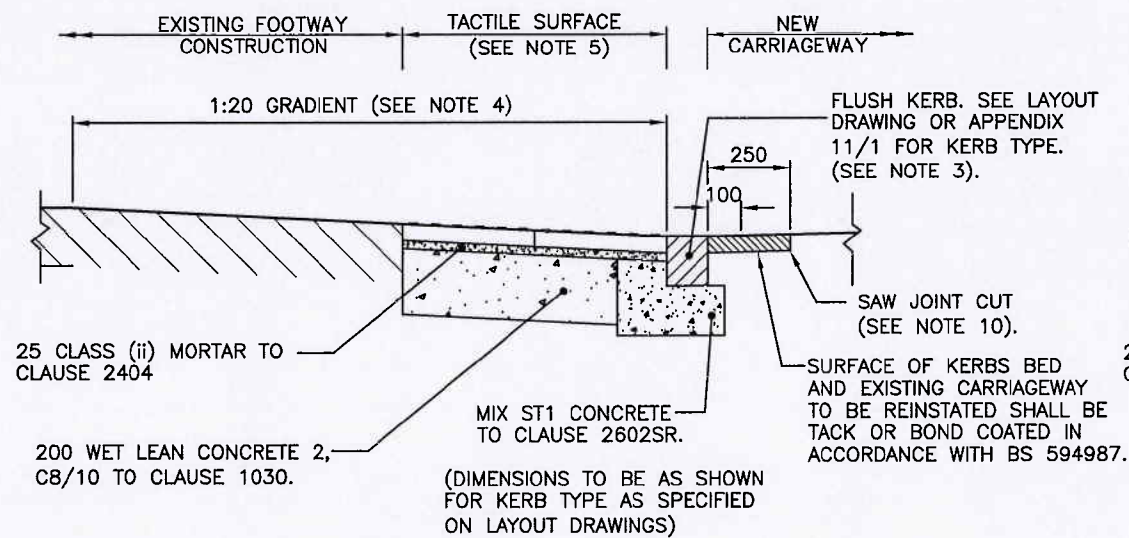
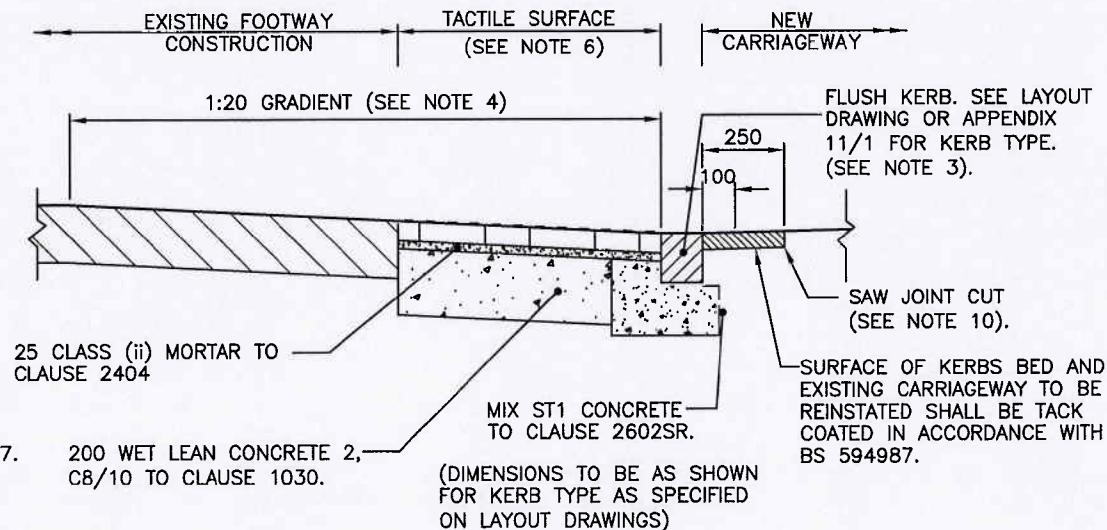
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DRAWN	MT	CHECKED	MT, MT	SCALE	A3 N.T.S.
CAD	TRK	APPROVED	TPW, TPW	DATE	APR 2007
DRG No.	HCC9/C/060	REVISION			B

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PLAN

SECTION A-A
TACTILE PAVING MODULE TYPE 2SECTION B-B
TACTILE PAVING MODULE TYPE 3

9. NOTWITHSTANDING SUB-CLAUSE 5 OF CLAUSE 1101, THE SURFACE LEVEL OF THE DROPPED KERBS AND AT LEAST 5 FULL HEIGHT KERBS EITHER SIDE SHALL NOT DEVIATE FROM THE DESIGN LEVEL.
10. VERTICAL FACE OF SAW CUT JOINT SHALL BE PAINTED WITH HOT 190 PEN BITUMEN OR COLD APPLIED BITUMEN COMPOUND TO CL. 903.22.
11. WHERE A SERVICE COVER OCCURS WITHIN AN AREA OF TACTILE FLAG PAVING THE CONTRACTOR SHALL APPLY 'STICK-ON' TILES TO THE SURFACE AREA OF THE COVER TO PROVIDE CONTINUITY OF PATTERN. THE TILES SHALL MATCH THE SURROUNDING TACTILE IN PATTERN, ORIENTATION AND COLOUR SHALL BE AS SUPPLIED BY VISUAL DESIGNS LTD., OR EQUIVALENT. ALL INSTALLED IN ACCORDANCE WITH MANUFACTURER'S INSTRUCTIONS.

NOTES:

1. ALL DIMENSIONS ARE IN MILLIMETRES.
2. UNLESS OTHERWISE STATED IN APPENDIX 11/1, THE WIDTH OF THE DROPPED CROSSING SHALL BE 2400 AS SHOWN ON THIS DETAIL.
3. AS DESCRIBED IN CLAUSE 1101, SUB-CLAUSE 1, KERBS MAY BE LAID AND BEDDED ON MORTAR OR LAID DIRECTLY ON TO STILL PLASTIC CONCRETE AS ILLUSTRATED HERE.
4. THE GRADIENT OF THE DROPPED CROSSING SHALL BE 1 IN 20, BUT THE OVERSEEING ORGANISATION WILL DETERMINE THE PRECISE GRADIENT ON SITE PRIOR TO CONSTRUCTION.
5. UNLESS STATED ON LAYOUT DRAWING OR IN APPENDIX 11/1 TACTILE PAVING SHALL BE BUTT JOINTED BLISTER TACTILE FLAGS MODULE TYPE 2, 400 x 400 x 50 THICK MANUFACTURED TO BS EN 1339 AND DD CEN/TS 15209:2008.
6. AT LOCATIONS WHERE THE TACTILE PAVING MAY BE OVERRIDDEN BY HEAVY VEHICLES AND WHERE INDICATED ON THE LAYOUT DRAWINGS, OR IN APPENDIX 11/1, MODULE TYPE 3; 200 x 133 x 60 THICK BUTT JOINTED CONCRETE TACTILE PAVING BLOCKS TO BS EN 1338 AND DD CEN/TS 15209:2008, LAID IN 90° HERRINGBONE PATTERN TO THE OVERALL DIMENSIONS SHOWN, SHALL BE USED. CUT BLOCKS SHALL NOT BE USED IF LESS THAN 1/3 OF FULL SIZE.
7. ONLY ONE MODULE TYPE SHALL BE USED WITH EACH PEDESTRIAN CROSSING.
8. UNLESS OTHERWISE STATED IN APPENDIX 11/1, BLISTER TACTILE UNITS SHALL BE BUFF COLOURED.

B	TACTILE PAVING BED AND SUBBASE AND NOTES 5 & 6 AMENDED	DEC. 11	MT	MT	PS
A	REINSTATEMENT DETAILS AMENDED.	DEC. 08	MT	MT	PS
AMENDMENT		DATE	DRAWN	CHKD	APPD

CONSULTANT



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SCHEME

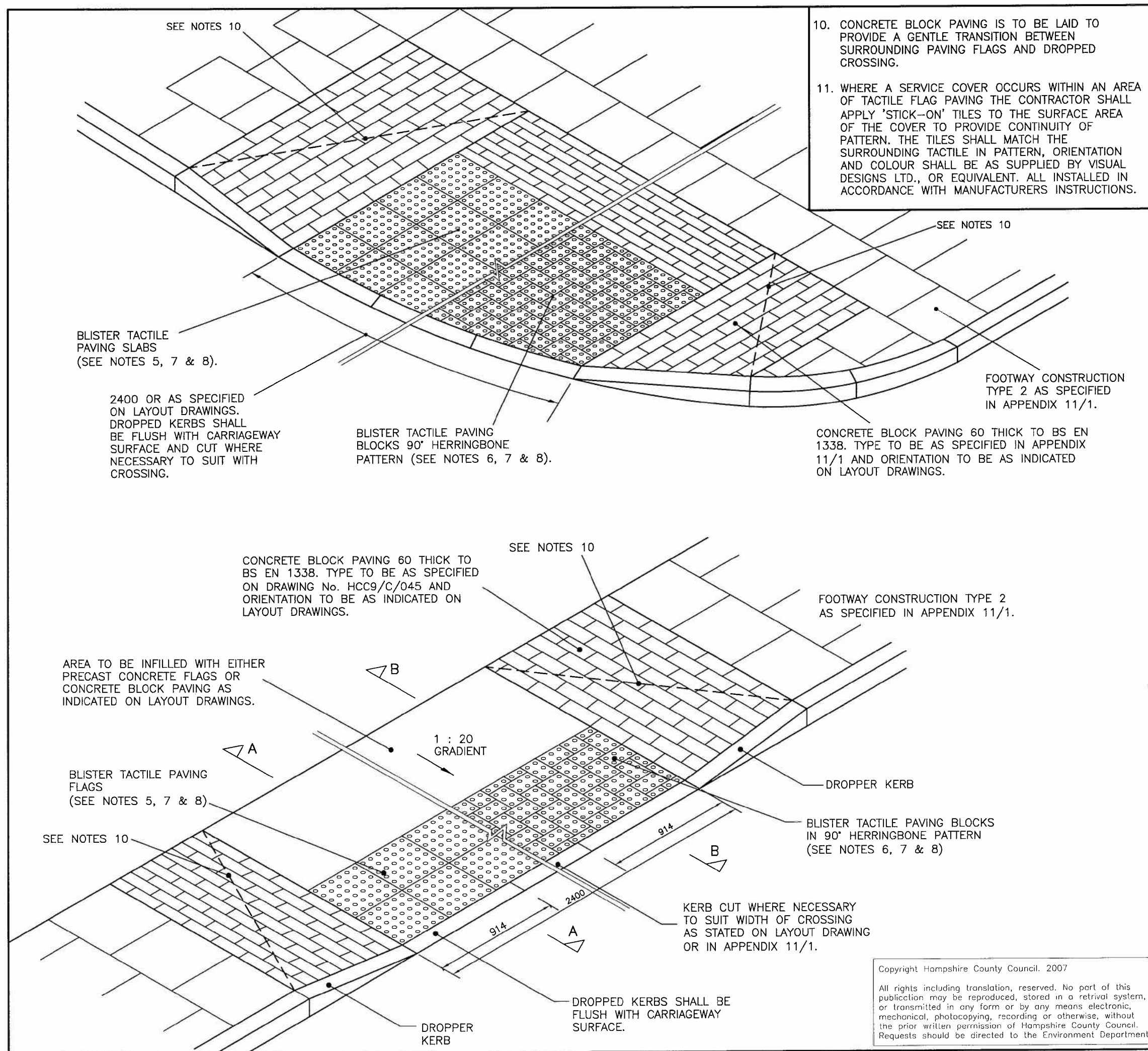
STANDARD DETAILS

DRAWING TITLE

UNCONTROLLED PEDESTRIAN
CROSSING INSTALLED IN
EXISTING FOOTWAY

HCC CADplot: 09-Jan-2012 at 4:01pm

DRAWN	MT	CHECKED	MT	MT	SCALE	A3	N.T.S.
CAD	TRK	APPROVED	TPW	TPW	DATE	MAY 2007	
DRG No.	HCC9/C/065					REVISION	B



10. CONCRETE BLOCK PAVING IS TO BE LAID TO PROVIDE A GENTLE TRANSITION BETWEEN SURROUNDING PAVING FLAGS AND DROPPED CROSSING.
11. WHERE A SERVICE COVER OCCURS WITHIN AN AREA OF TACTILE FLAG PAVING THE CONTRACTOR SHALL APPLY 'STICK-ON' TILES TO THE SURFACE AREA OF THE COVER TO PROVIDE CONTINUITY OF PATTERN. THE TILES SHALL MATCH THE SURROUNDING TACTILE IN PATTERN, ORIENTATION AND COLOUR SHALL BE AS SUPPLIED BY VISUAL DESIGNS LTD., OR EQUIVALENT. ALL INSTALLED IN ACCORDANCE WITH MANUFACTURERS INSTRUCTIONS.

NOTES:

- ALL DIMENSIONS ARE IN MILLIMETRES.
- UNLESS OTHERWISE STATED IN APPENDIX 11/1, THE WIDTH OF THE DROPPED CROSSING SHALL BE 2400 AS SHOWN ON THIS DETAIL.
- AS DESCRIBED IN CLAUSE 1101, SUB-CLAUSE 1, KERBS MAY BE LAID AND BEDDED ON MORTAR OR LAID DIRECTLY ON TO STILL PLASTIC CONCRETE AS ILLUSTRATED HERE.
- THE GRADIENT OF THE DROPPED CROSSING SHALL BE 1 IN 20, BUT THE OVERSEEING ORGANISATION WILL DETERMINE THE PRECISE GRADIENT ON SITE PRIOR TO CONSTRUCTION.
- UNLESS STATED ON LAYOUT DRAWING OR IN APPENDIX 11/1 TACTILE PAVING SHALL BE BUTT JOINTED BLISTER TACTILE FLAGS MODULE TYPE 2, 400 x 400 x 50 THICK MANUFACTURED TO BS EN 1339 AND DD CEN/TS 15209:2008
- AT LOCATIONS WHERE THE TACTILE PAVING MAY BE OVERRIDDEN BY HEAVY VEHICLES AND WHERE INDICATED ON THE LAYOUT DRAWINGS OR IN APPENDIX 11/1, MODULE TYPE 3 200 x 133 x 60 THICK BUTT JOINTED CONCRETE TACTILE PAVING BLOCKS TO BS EN 1338 AND DD CEN/TS 15209:2008, LAID IN 90° HERRINGBONE PATTERN TO THE OVERALL DIMENSIONS SHOWN, SHALL BE USED. CUT BLOCKS SHALL NOT BE LAID IF LESS THAN 1/3 OF A FULL BLOCK.
- ONLY ONE MODULE TYPE SHALL BE USED WITH EACH PEDESTRIAN CROSSING.
- UNLESS OTHERWISE STATED IN APPENDIX 11/1, BLISTER TACTILE UNITS SHALL BE BUFF COLOURED.
- NOTWITHSTANDING SUB-CLAUSE 5 OF CLAUSE 1101, THE SURFACE LEVEL OF THE DROPPED KERBS AND AT LEAST 5 FULL HEIGHT KERBS EITHER SIDE SHALL NOT DEVIATE FROM THE DESIGN LEVEL.

B	NOTES 5 & 6 AMENDED	DEC. 11	MT	uncontrolled
A	TACTILE PAVING NOTE REFERENCE AMENDED.	DEC. 08	MT	MT
	AMENDMENT	DATE	DRAWN	CHKD

CONSULTANT



ALISON QUANT BSc MSc MRTP, DIRECTOR OF ENVIRONMENT, THE CASTLE, WINCHESTER.

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STANDARD DETAILS

DRAWING TITLE

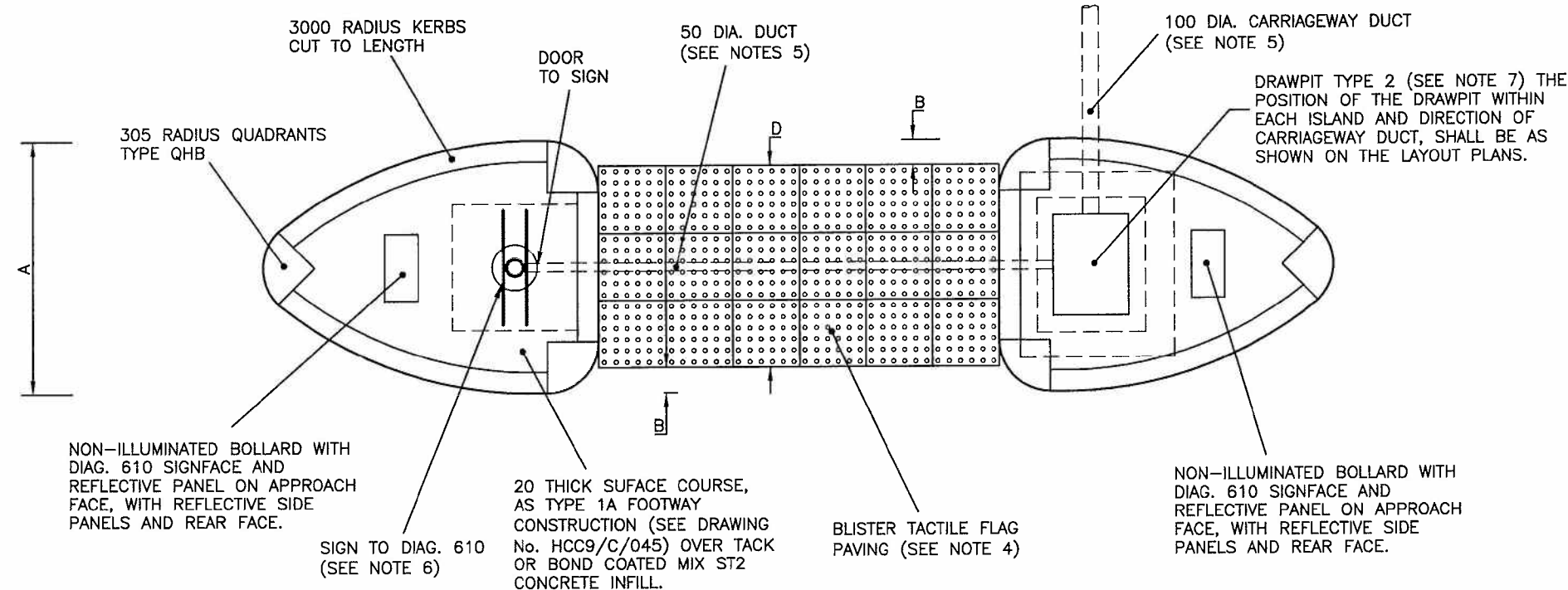
UNCONTROLLED PEDESTRIAN CROSSINGS INSTALLED WITHIN FOOTWAY TYPE 2

HCC CADplot: 05-Jan-2012 at 10:43am

DRAWN	MT	CHECKED	MT	MT	SCALE	A3	N.T.S.
CAD	TRK	APPROVED	TPW	TPW	DATE	MAY 2007	
ORG No.	HCC9/C/070					REVISION	B

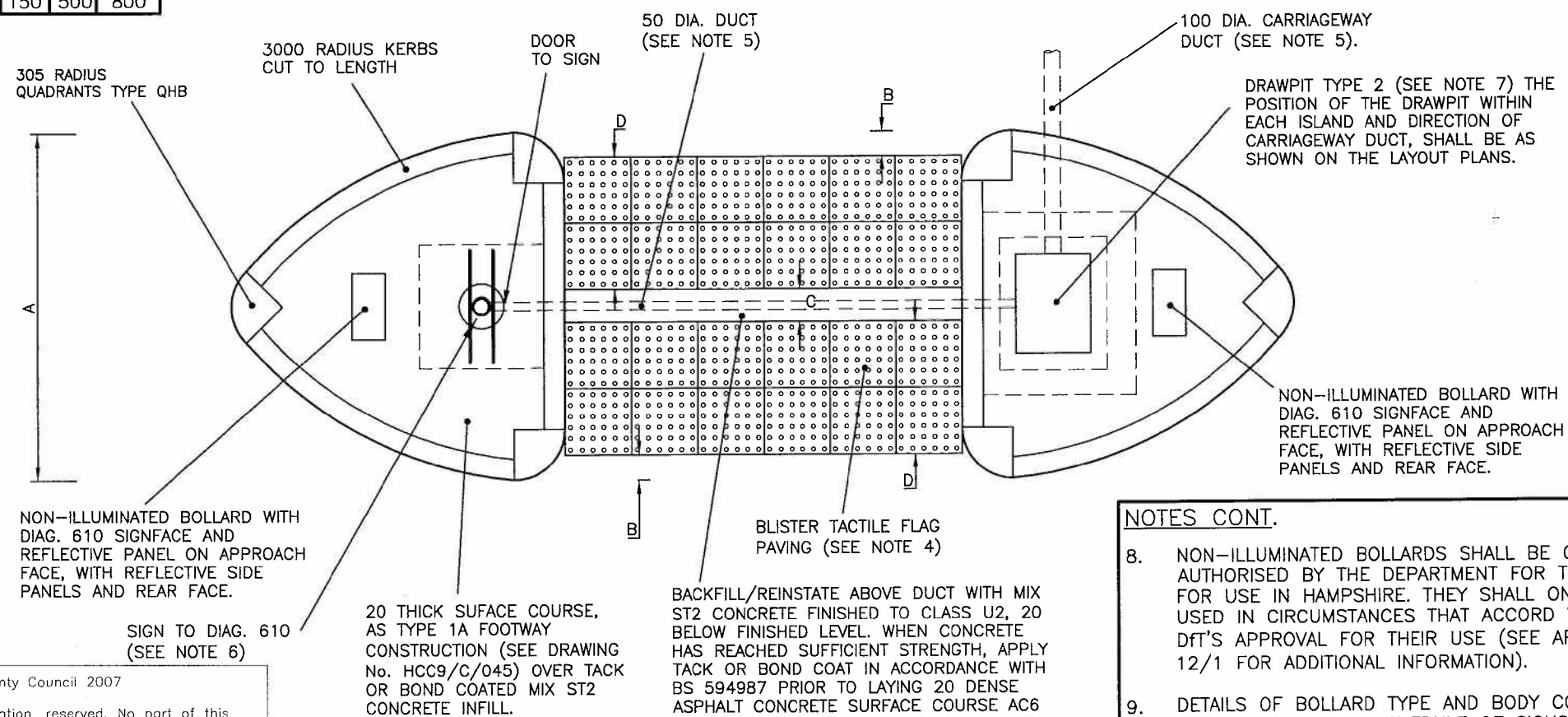
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ISLANDS TYPES 1A TO 6A

ISLAND TYPE	A	B	C	D
1A	1500	150	0	1200
2A	1600	200	0	1200
3A	1700	250	0	1200
4A	1800	300	0	1200
5A	1900	150	0	1600
6A	2000	200	0	1600
7A	2100	150	200	800
8A	2500	150	500	800



ISLANDS TYPES 7A AND 8A

NOTES:

- ALL DIMENSIONS ARE IN MILLIMETRES.
- ALL KERBS SHALL BE TYPE PC1 AS SHOWN ON DRAWING No. HCC9/C/010 UNLESS STATED OTHERWISE ON LAYOUT DRAWING.
- THE DIMENSIONS FOR EACH ISLAND TYPE ARE GIVEN WITHIN THE TABLE OPPOSITE.
- BLISTER TACTILE FLAG SHALL BE 400x400x50 THICK MANUFACTURED TO BS EN 1339 AND DD CEN/TS 15209:2008, AND UNLESS OTHERWISE STATED IN APPENDIX 11/1 SHALL BE BUFF COLOURED. FLAGS SHALL BE LAID FLUSH WITH THE CARRIAGEWAY ON A CLASS (ii) MORTAR BED IN ACCORDANCE WITH CLAUSE 2404. CLAUSE 1104 PARAGRAPH 2 SAND BED SHALL NOT BE PERMITTED.
- DUCT BENEATH CARRIAGEWAY SHALL HAVE MINIMUM 750 COVER. DUCTS BETWEEN DRAWPIT AND SIGN SHALL HAVE MINIMUM 450 COVER. UNLESS STATED OTHERWISE IN APPENDIX 5/2 ALL DUCTS SHALL BE ORANGE UPVC MARKED 'ELECTRIC CABLE - MAINS VOLTAGE' AS DESCRIBED IN TABLE 5/2 AND BE INSTALLED IN ACCORDANCE WITH CLAUSES 502, 503, 504, 505 & 509.
- THE EXTERNALLY ILLUMINATED SIGN SHALL BE 2 No. DIAGRAM 610 SIGNS OF MINIMUM 600 DIA. WITH VERTICAL CLEARANCE OF 2100 FOR PEDESTRIAN CROSSINGS AND 2400 WHERE CYCLISTS ARE PRESENT, MOUNTED BACK TO BACK ON 76 DIA. SINGLE WIDE BASED POST ALL AS SHOWN ON DRAWING No. HCC9/L/050.
- DRAWPIT TYPE 2 SHALL BE AS DRAWING No. HCC9/L/075.

B	REINSTATEMENT NOTE AND NOTES 4 & 6	DEC. 11	MT	W	M
A	DRAWING REFERENCE NOTE ADDED	JAN. 08	MT	MT	PS
	AMENDMENT	DATE	DRAWN	CHKD	APPD

CONSULTANT



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SCHEME

STANDARD DETAILS

DRAWING TITLE

PEDESTRIAN REFUGE ISLAND TYPES 1A TO 8A WITH NON-ILLUMINATED BOLLARDS

HCC CADplot: 05.Jan.2012 at 10:53am

DRAWN	MT	CHECKED	MT, MT	SCALE	A3 N.T.S.
CAD	TRK	APPROVED	TPW, TPW	DATE	MAY 2007
DRG No.	HCC9/C/075	REVISION			B

NOTES CONT.

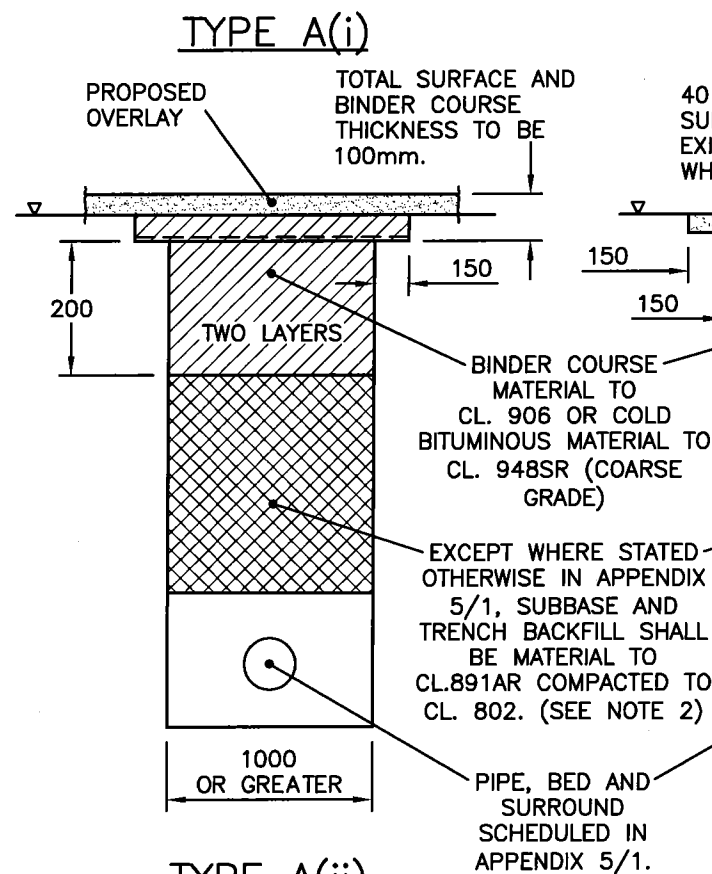
- NON-ILLUMINATED BOLLARDS SHALL BE OF A TYPE AUTHORISED BY THE DEPARTMENT FOR TRANSPORT FOR USE IN HAMPSHIRE. THEY SHALL ONLY BE USED IN CIRCUMSTANCES THAT ACCORD WITH THE DfT'S APPROVAL FOR THEIR USE (SEE APPENDIX 12/1 FOR ADDITIONAL INFORMATION).
- DETAILS OF BOLLARD TYPE AND BODY COLOUR ARE GIVEN ON THE SCHEDULE OF SIGNS.
- BOLLARDS SHALL BE INSTALLED IN ACCORDANCE WITH MANUFACTURES RECOMENDATIONS.

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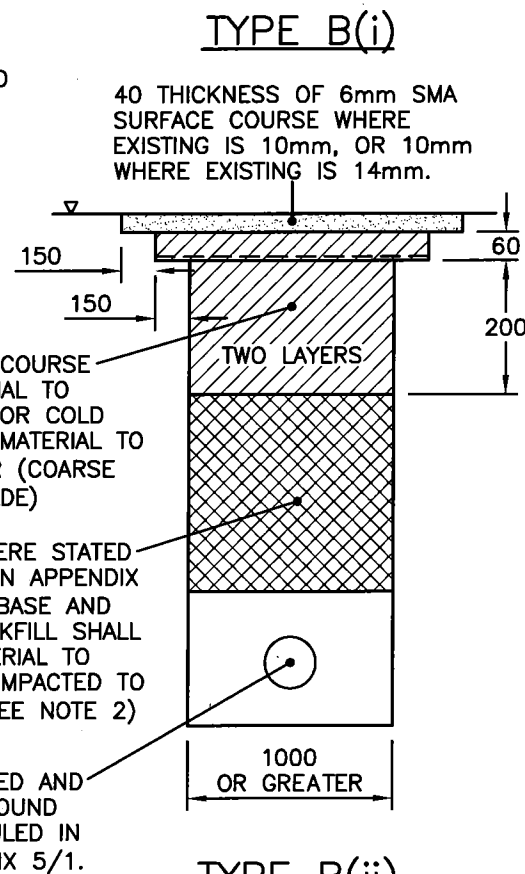
REINSTATEMENT TYPE A

WHERE EXISTING CARRIAGEWAY IS TO BE OVERLAID



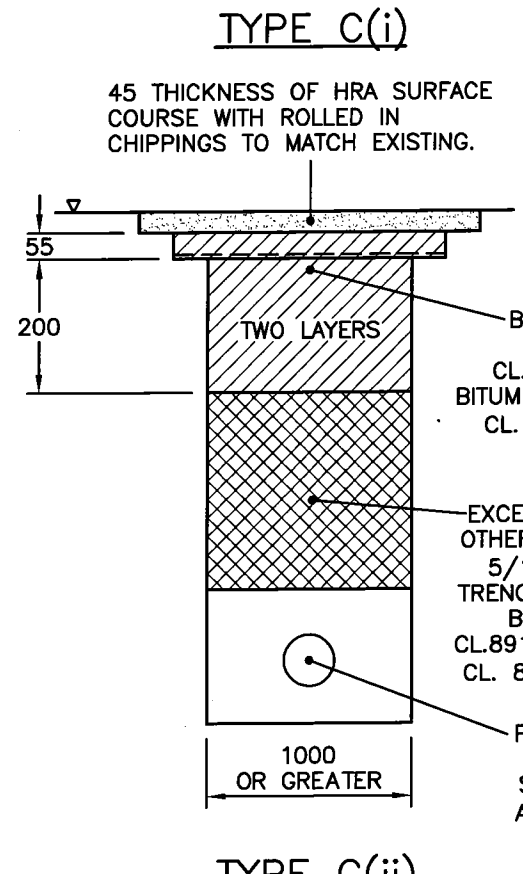
REINSTATEMENT TYPE B

WHERE EXISTING SURFACING IS THIN SURFACE COURSE SYSTEM OR STONE MASTIC ASPHALT



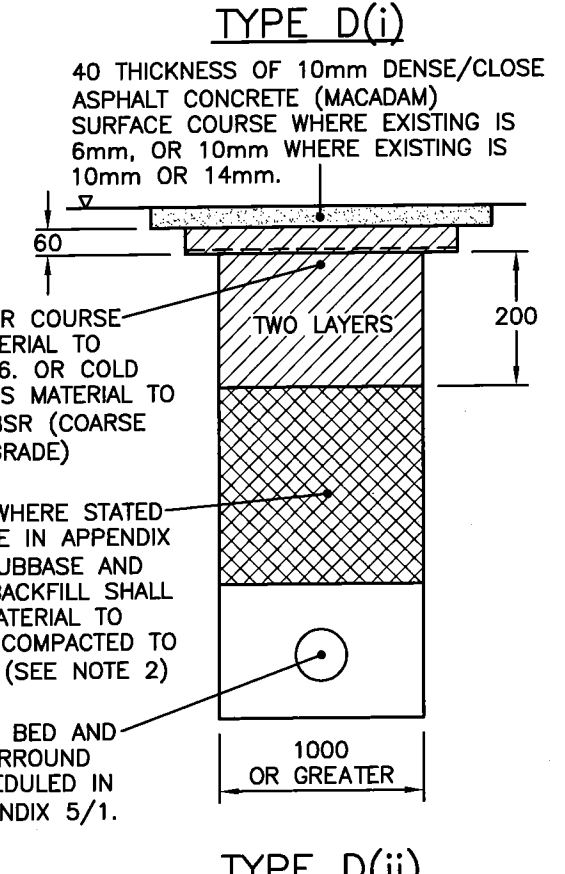
REINSTATEMENT TYPE C

WHERE EXISTING SURFACING IS HOT ROLLED ASPHALT OR SURFACE DRESSED SITES OF 40 MPH OR GREATER



REINSTATEMENT TYPE D

WHERE EXISTING SURFACING IS DBM OR SURFACE DRESSED SITES OF 30 MPH



NOTES:

- ALL DIMENSIONS ARE IN MILLIMETRES.
- SUBJECT TO THE APPROVAL OF THE OVERSEEING ORGANISATION REINSTATEMENT TYPES A (i) TO D (i) MAY BE USED FOR TRENCH WIDTHS OF 500 TO 1000 IF MAV 01 EXCAVATOR MOUNTED PLATE COMPACTOR, BY RF SYSTEMS OR EQUIVALENT, OPERATED ON THE LOWER FREQUENCY, IS USED TO COMPACT TRENCH BACKFILL.
- THE REPLACEMENT OF THE ROAD STRUCTURE SHALL BE CARRIED OUT AS SOON AS PRACTICAL AFTER TRENCH BACKFILLING HAS BEEN COMPLETED.
- THE EDGE OF THE TRENCH SHALL BE CUT TO A UNIFORM LINE CONSISTENT WITH THE WIDTH REQUIRED FOR THE PARTICULAR PIPES OR DUCTS BEING LAID. ANY PART OF THE STRUCTURE OF THE CARRIAGEWAY BEYOND THE WIDTH OF THE TRENCH WHICH HAS BEEN DAMAGED BY THE CONTRACTOR SHALL BE CUT OUT AND MADE GOOD.
- SEE APPENDIX 7/2 FOR DETAILS OF AGGREGATE SIZE, MINIMUM PSV, MAXIMUM AAV, ETC.
- UNLESS OTHERWISE STATED IN APPENDIX 7/2 A STRESS ABSORBING MEMBRANE (GEOGRID) SHALL BE INSTALLED BENEATH THE BINDER COURSE LAYER ACROSS TO FULL WIDTH INCLUDING THE JOINT OVERLAP. THE GRID SHALL HAVE A MINIMUM TENSILE STRENGTH IN BOTH DIRECTIONS OF 100kN/m AND SHALL OVERLAP THE TRENCH EDGES BY 150 MINIMUM. INSTALLATION IN ACCORDANCE WITH MANUFACTURERS INSTRUCTIONS.
- TREATMENT OF LAYERS AND VERTICAL JOINTS SHALL BE IN ACCORDANCE WITH CL 903.
- WHERE WET LEAN CONCRETE 1 IS USED CRACKS SHALL BE INDUCED AT 3m CENTRES.

B	GENERAL UPDATE AND NOTE 8 ADDED.	DEC. 08	MT	ub	B
A	SURFACE COURSE AND TACK COAT NOTES	JAN. 08	MT	MT	TPW
	AMENDMENT	DATE	DRAWN	CHKD	APPD

CONSULTANT	Hampshire County Council Engineering CONSULTANCY
ALISON QUANT BSc MSc MRTPL DIRECTOR OF ENVIRONMENT, THE CASTLE, WINCHESTER.	

SCHEME	STANDARD DETAILS
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DRAWING TITLE	REINSTATEMENT OF DRAIN AND DUCT TRENCHES IN EXISTING CARRIAGEWAYS
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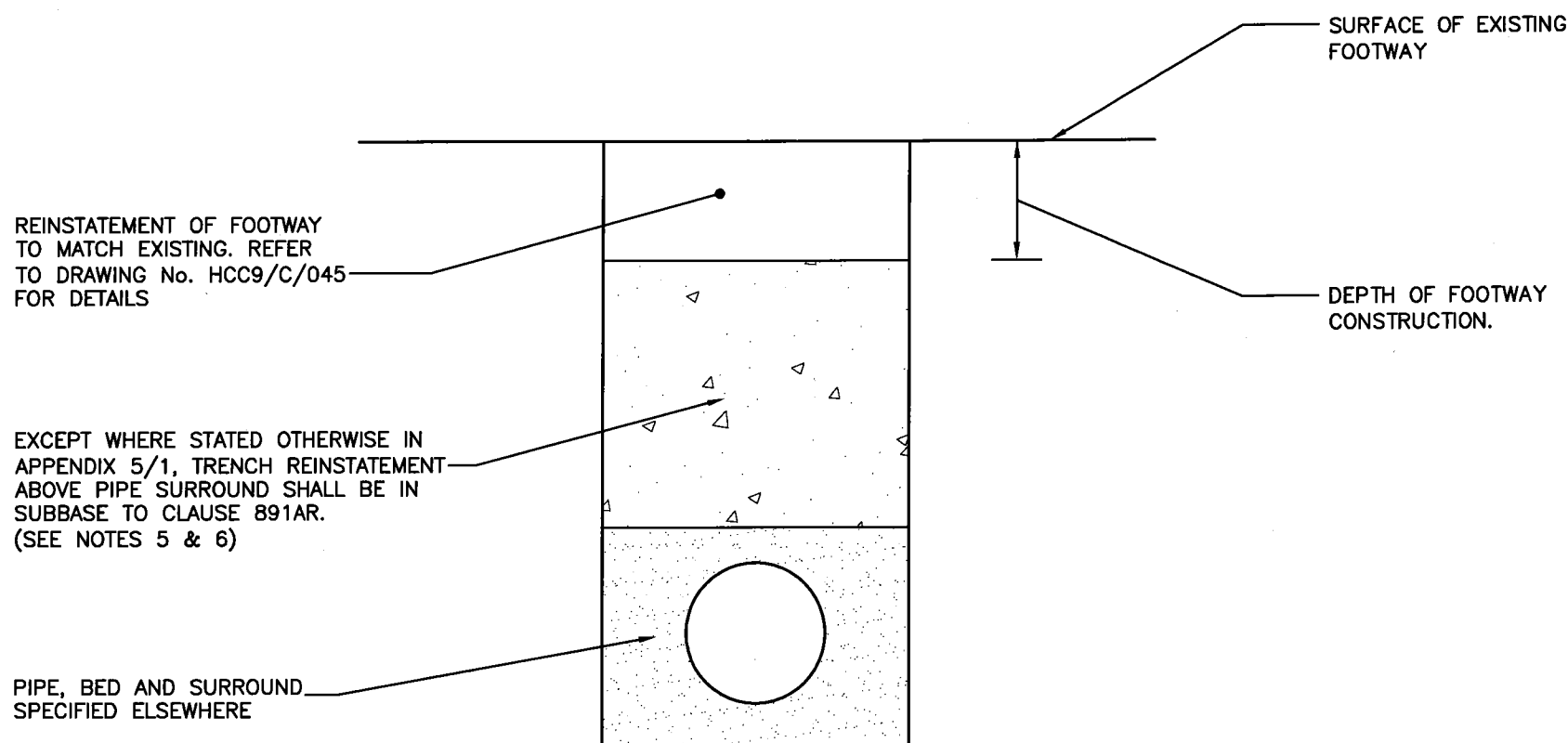
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DRAWN	TRK	TPW, TPW	DATE	MAY 2007
DRG No.	HCC9/C/090	REVISION	B	

LEGEND

- EXISTING ROAD SURFACE LEVEL
- STRESS ABSORBING MEMBRANE (GEOGRID) REINFORCEMENT (SEE NOTE 6)

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NOTES:

1. ALL DIMENSIONS ARE IN MILLIMETRES.
2. THE REINSTATEMENT OF THE FOOTWAY STRUCTURE SHALL BE CARRIED OUT AS SOON AS PRACTICABLE AFTER BACKFILLING HAS BEEN COMPLETED.
3. TREATMENT OF LAYERS AND VERTICAL JOINTS SHALL BE IN ACCORDANCE WITH CL. 903.
4. EXISTING BLOCK OR FLAG PAVING SHALL BE CAREFULLY REINSTATED TO A MINIMUM OF 300 EITHER SIDE OF THE TRENCH EDGE AND BEDDED AS DESCRIBED IN DRAWING No. HCC9/C/045.
5. WHERE TRENCH IS LESS THAN 450 WIDE, REINSTATEMENT ABOVE PIPE SHALL BE FOAMED CONCRETE TO CL.1043, OR WHERE QUANTITIES MAKE FOAMED CONCRETE IMPRACTICAL, WET LEAN CONCRETE 1 TO CL.1030.
6. WHERE WET LEAN CONCRETE 1 IS USED CRACKS SHALL BE INDUCED AT 3m CENTRES.

B	NOTE 3 AMENDED & NOTE 6 ADDED	DEC. 08	MT	u6B	
A	TACK COAT NOTE AMENDED	JAN. 08	MT	MT	TPW
	AMENDMENT	DATE	DRAWN	CHKD	APPD

CONSULTANT



SCHEME

STANDARD DETAILS

DRAWING TITLE

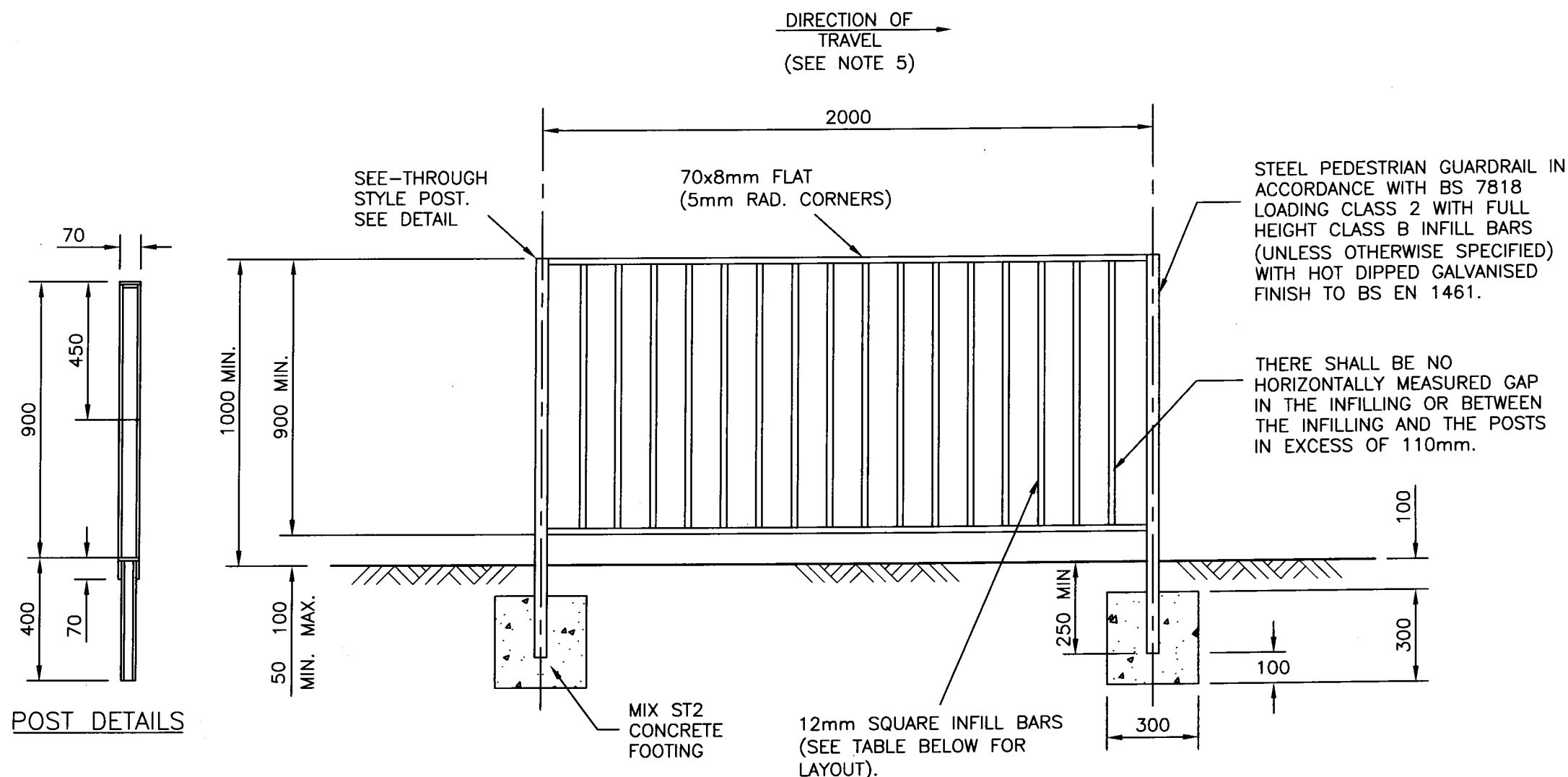
REINSTATEMENT OF DRAIN AND DUCT TRENCHES IN EXISTING FOOTWAYS

HCC CADplot: 12.Feb.2009 at 4:02pm

DRAWN	MT	CHECKED	MT, MT	SCALE	A3 N.T.S.
CAD	TRK	APPROVED	TPW, TPW	DATE	MAY 2007
DRG No.	HCC9/C/095	REVISION	B		

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POST DETAILS

INFILL BAR TABLE

PANEL TYPE	PANEL LAYOUT	OPTIMUM SIGHT ANGLE	TYPICAL USES
HV1		LESS THAN 2.5°	OFFSIDE GUARD RAILS AND HIGH SPEED ROADS
HV2		2.5° TO 5°	STRAIGHT ROADS, MODERATE TO HIGH SPEEDS
HV4		5° TO 14°	STRAIGHT ROADS, LOW TO MODERATE SPEEDS. CURVES
HV8		MORE THAN 14°	CURVES LESS THAN 15, RADIUS E.G. BELLMOUTHS

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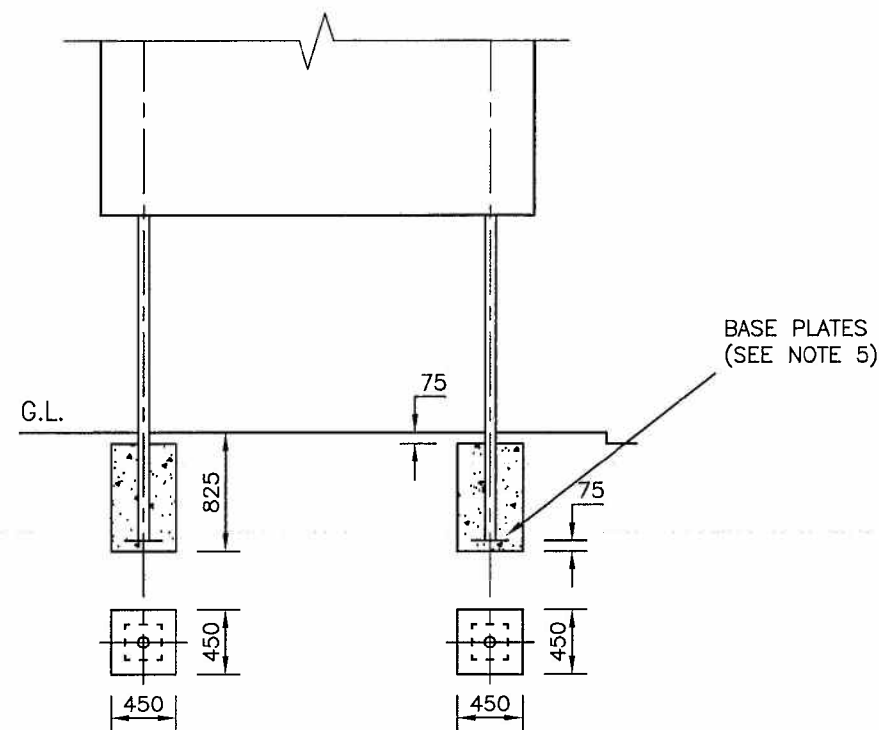
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NOTES:

1. ALL DIMENSIONS ARE IN MILLIMETRES.
2. CLEARANCE BETWEEN GUARD RAIL AND EDGE OF CARRIAGEWAY SHALL BE A MINIMUM OF 450.
3. THE LOCATIONS OF PEDESTRIAN GUARDRAILS AND PANEL TYPES SHALL BE AS SHOWN ON THE LAYOUT DRAWINGS.
4. THE TYPE OF GUARDRAILING TO BE INSTALLED AT EACH LOCATION IS GIVEN IN APPENDIX 4/2.
5. THE DIRECTION OF TRAVEL REFERS TO THE DIRECTION OF VEHICULAR TRAVEL.
6. PANELS ARE TO BE SECURED TO POSTS USING M10 DOME HEAD CARRIAGE BOLT USING NYLOC, NUT AND WASHER VANDAL RESISTANT CONNECTION OR EQUIVALENT.

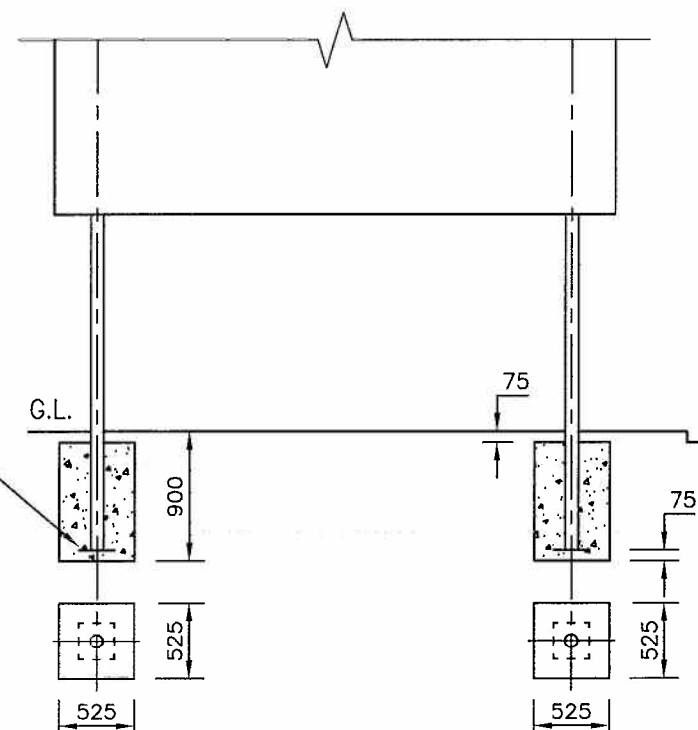
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CONSULTANT					
ALISON QUANT BSc MSc MRTP, DIRECTOR OF ENVIRONMENT, THE CASTLE, WINCHESTER.					
SCHEME					
STANDARD DETAILS					
DRAWING TITLE					
HIGH VISIBILITY PEDESTRIAN GUARD RAIL					
HCC CADplot: 02 Jul 2007 at 10:08am					
DRAWN	MT	CHECKED	MT	SCALE	A3 N.T.S.
CAD	TRK	APPROVED	TPW	DATE	MAY 2007
DRG No.	HCC9/C/135				REVISION

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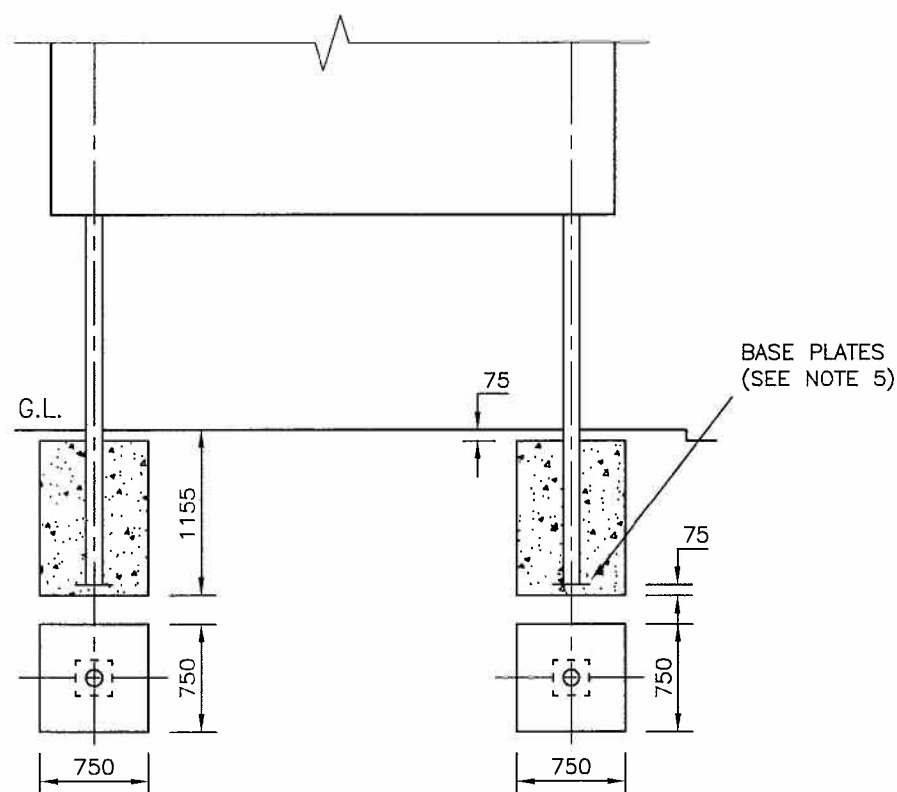
FOUNDATION TYPE A

POST SIZE 76.1 O.D. x 3.2 C.H.S.



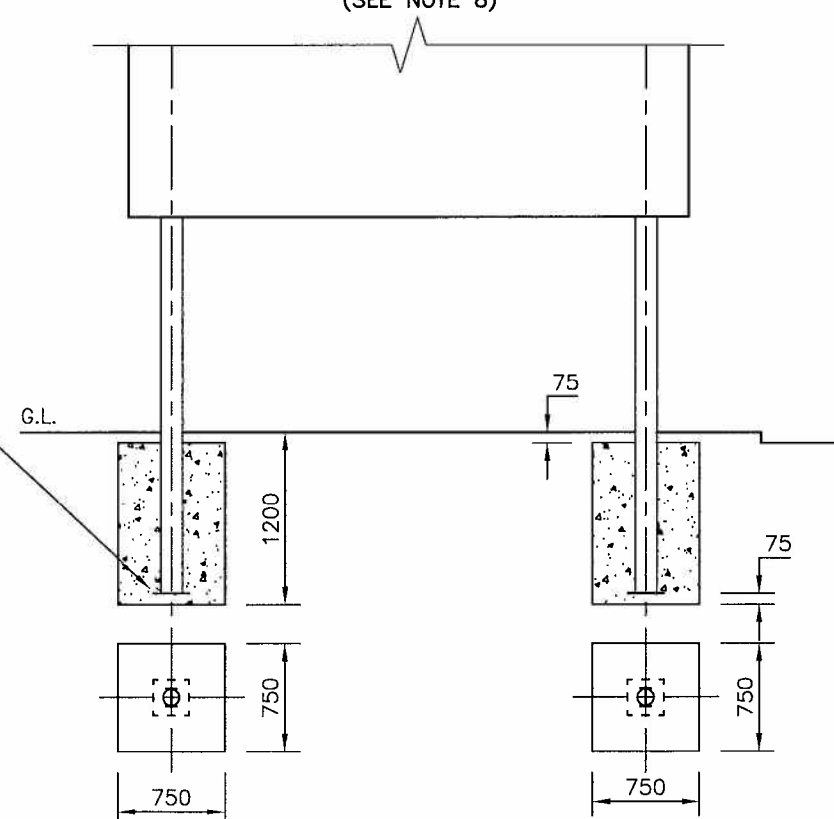
FOUNDATION TYPE B

POST SIZE 88.9 O.D. x 3.2 C.H.S.
(SEE NOTE 8)



FOUNDATION TYPE C

POST SIZE 114.3 O.D. x 5.0 C.H.S.
(SEE NOTE 8)



FOUNDATION TYPE D

POST SIZE 139.7 O.D. x 5.0 C.H.S.
(SEE NOTE 8)

NOTES:

1. ALL DIMENSIONS ARE IN MILLIMETRES.
2. FOUNDATIONS SHALL BE IN ACCORDANCE WITH CLAUSE 1203.
3. CONCRETE FOR SIGN FOUNDATIONS SHALL BE MIX ST2.
4. SEE APPENDIX 12/1 AND SIGN SCHEDULES FOR INFORMATION RELATING TO SIGN FACES, POSTS, CLEARANCES, LIGHTING UNITS, ETC.
5. ALL POSTS SHALL BE FITTED WITH BOLTED-ON BASE PLATES AS BS 873-7.
6. ALL POSTS SHALL BE PROVIDED WITH PLASTIC CAPS TO BS 873-7.
7. SINGLE POST SIGNS SHALL BE MADE RESISTANT TO TWISTING AS DESCRIBED IN BS 873.
8. FOR ROADS WITH A SPEED LIMIT OF 50mph OR GREATER, AND FOR SIGN POSTS WITH A DIAMETER OF OR EXCEEDING 88.9 O.D. WITH A WALL THICKNESS GREATER THAN 3.2MM, THE POSTS SHALL BE DESIGNED TO COMPLY WITH TD 89/08 (USE OF PASSIVELY SAFE SIGNPOSTS, LIGHTING COLUMNS AND TRAFFIC SIGNAL POLES TO BS EN 12767).
9. IN ORDER TO HIGHLIGHT THEIR PRESENCE TO VISUAL IMPAIRED PEDESTRIANS (SEE DfT 'INCLUSIVE MOBILITY' PARA 3.9), TRAFFIC SIGN POSTS TO BE ERECTED IN FOOTWAY AREAS OR WITHIN 0.5m OF A FOOTWAY OR CYCLEWAY SHALL HAVE A 150 DEEP SELF ADHESIVE WHITE BAND APPLIED AT BETWEEN 1.5m AND 1.6m TO THE BOTTOM EDGE ABOVE GROUND LEVEL. THE BAND SHALL BE IN RETROREFLECTIVE MATERIAL TO BS 873, CLASS 1 OR 2. THE ENDS OF THE TAPE SHALL BE SECURED TO RESIST REMOVAL.

B	88.9 DIA. POST C.H.S. AMENDED.	DEC. 11	MT	MT	PS
A	NOTE 9 ADDED.	DEC. 08	MT	MT	PS
AMENDMENT		DATE	DRAWN	CHKD	APPD

CONSULTANT



ALISON QUANT BSc MSc MTRPI, DIRECTOR OF ENVIRONMENT, THE CASTLE, WINCHESTER.

SCHEME

STANDARD DETAILS

DRAWING TITLE

TRAFFIC SIGNING POST FOUNDATIONS

HCC CADplot: 04-Jan-2012 at 5:05pm

DRAWN	MT	CHECKED	MT , MT	SCALE	A3	N.T.S.
CAD	TRK	APPROVED	TPW , TPW	DATE	MAY 2007	
DRG No.	HCC9/C/140			REVISION	B	

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'HAMPSHIRE' IN WHITE
GARAMOND UPPERCASE

WHITE CROWN

HCC CREST. TOTAL HEIGHT
(INCLUDING ROSE)
160mm. SEE NOTE 4 & 5.

HCC RED OUTER ROSE,
WHITE CENTRE ROSE BLUE
LINES AND CENTRE DOT

SEE NOTE 7

SEE NOTE 8

SEE NOTE 9



'COUNTY COUNCIL'
IN GILL SANS LIGHT
UPPERCASE

TYPE 1

'HAMPSHIRE' IN WHITE
GARAMOND UPPERCASE

WHITE CROWN

HCC CREST. TOTAL HEIGHT
(INCLUDING ROSE)
148mm. SEE NOTE 4 & 5.

HCC RED OUTER ROSE,
WHITE CENTRE ROSE BLUE
LINES AND CENTRE DOT

SEE NOTE 7

SEE NOTE 8

SEE NOTE 9



'COUNTY COUNCIL'
IN GILL SANS LIGHT
UPPERCASE

SEE NOTE 10

TYPE 2

NOTES:

1. ALL DIMENSIONS ARE IN MILLIMETRES.
2. ALL SCHEME SIGN BOARDS ARE TO BE 1000 x 750 IN SIZE.
3. BLUE BACKGROUND - PANTONE 288C NON REFLECTIVE.
4. HCC RED OUTER ROSE- PANTONE 485c.
5. ALL TEXT, HCC CREST (EXCLUDING OUTER ROSE) AND LINES ARE WHITE. DETAILS OF CREST AVAILABLE AT: <http://www.hants.gov.uk/logos/download.html> or <http://www.hants.gov.uk/logos>.
6. HCC CREST (INCLUDING ROSE) TO BE IN CLASS 2 REFLECTIVE TO BS 873-6. WHERE TYPE 2 SIGNS ARE SPECIFIED AMEY LOGO ALSO TO BE IN CLASS 2 REFLECTIVE MATERIAL TO BE BS 873-6.
7. WHITE GILL SANS BOLD UPPERCASE HEIGHT 72mm.
8. WHITE GILL SANS UPPERCASE HEIGHT 72mm.
9. WHITE GILL SANS UPPERCASE HEIGHT 35mm.
10. TEXT TO BE IN HIGH INTENSITY PRISMATIC LETTERING.
11. SIGNS SHALL BE MOUNTED ON A TEMPORARY STEEL 76.1mm OD x 3.2 CHS POST WITH 450 x 450 x 825 CONCRETE FOUNDATION AS THE LATEST REVISION OF HCC9/C/140 AT LOCATIONS SPECIFIED ON THE SCHEME SPECIFIC DRAWINGS OR IN THE SPECIFICATION.
12. SIGNS SHALL BE MANUFACTURED FROM METAL IN ACCORDANCE WITH THE SPECIFICATION. ALUMINIUM FIXING RAILS SHALL BE ATTACHED TO THE REAR OF THE SIGN.
13. THE SIGNS SHALL BE FIXED TO THE POST IN ACCORDANCE WITH THE SPECIFICATION AT TWO POINTS 150mm FROM THE TOP AND BOTTOM OF THE SIGN. THE SIGN SHALL BE MADE RESISTANT TO TWISTING AS DESCRIBED IN BS 873.

A	SIGN FACE DETAILS AMENDED	OCT 08	MT		
REV.	AMENDMENT	DATE	DRAWN	CHKD	APPD
CONSULTANT					
 ALISON QUANT BSc MSc MRTP, DIRECTOR OF ENVIRONMENT, THE CASTLE, WINCHESTER.					
SCHEME					
STANDARD DETAILS					
DRAWING TITLE					
HCC SCHEME SIGN BOARDS TYPES 1 AND 2					
HCC CADplot: 17.Feb.2009 at 3:51pm					
DRAWN	MT	CHECKED	MT, MT	SCALE	N.T.S
CAD	TPK	APPROVED	TWP, TWP	DATE	MAY 2007
DRG No.	HCC9/C/145			REVISION	A

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CARRIAGEWAY SURFACE

150Ø BUNG
SECURED BY
CHAIN

(SEE NOTE 3)

750

SECTION

KARB FACE

PLAN

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1. ALL DIMENSIONS ARE IN MILLIMETRES.
2. THE DETAIL SHOWN IS FOR IN-SITU CONCRETE GULLY POT USING PERMANENT SHUTTERING. THE POT MAY ALSO BE CONSTRUCTED USING PRE-CAST CONCRETE OR CLAY AS DESCRIBED IN CLAUSE 508.3 EXCEPT THAT THEY SHALL BE BACKFILLED USING MIX ST2 CONCRETE OF MINIMUM 150 THICKNESS.
3. UNLESS SPECIFIED ON THE LAYOUT DRAWING, WHERE THE OUTLET PIPE IS UNDER THE CARRIAGEWAY, OR IN THE VERGE LESS THAN 2000 FROM THE CARRIAGEWAY EDGE, IT SHALL BE GIVEN A MINIMUM 600 COVER AND SHALL HAVE A BED TYPE Z.
WHERE THE OUTLET PIPE IS UNDER THE VERGE AND IS GREATER THAN 2000 FROM THE EDGE OF CARRIAGEWAY IT SHALL HAVE A MINIMUM COVER OF 450.
4. GULLY SHOWN IS A TRAPPED GULLY. ALL GULLIES SHALL BE TRAPPED UNLESS STATED OTHERWISE IN APPENDIX 5.1
5. GRATINGS SHALL BE EITHER LEFT HAND OR RIGHT HAND HINGED AS VIEWED WHEN FACING THE KERB. THE HINGED END SHALL BE NEAREST ON-COMING TRAFFIC. THE GRATING SHALL BE CAPTIVE WITHIN THE FRAME.
6. EXISTING CARRIAGEWAY REINSTATEMENT SHALL BE AS SPECIFIED ON LAYOUT DRAWINGS OR IN APPENDIX 7/2.
7. ALL CEMENT USED IN INSITU CONCRETE SHALL BE CII(A OR B)-S OR CIII A OR B TO BS 8500-2, TABLE 1 AND ANNEX A.

B	NOTE 7 AMENDED	DEC 11	MT	<i>mb</i>	<i>mb</i>
A	NOTE 7 ADDED.	DEC 08	MT	MT	RS
	AMENDMENT	DATE	DRAWN	CHKD	APPD

 Hampshire
County Council

 Engineering
CONSULTANCY

 Construction Skills
PS-23445

 UK Skills
PS-23445

ALISON QUANT BSc MSc MRTPi, DIRECTOR OF ENVIRONMENT, THE CASTLE, WINCHESTER.

STANDARD DETAILS

GULLY TYPE 1

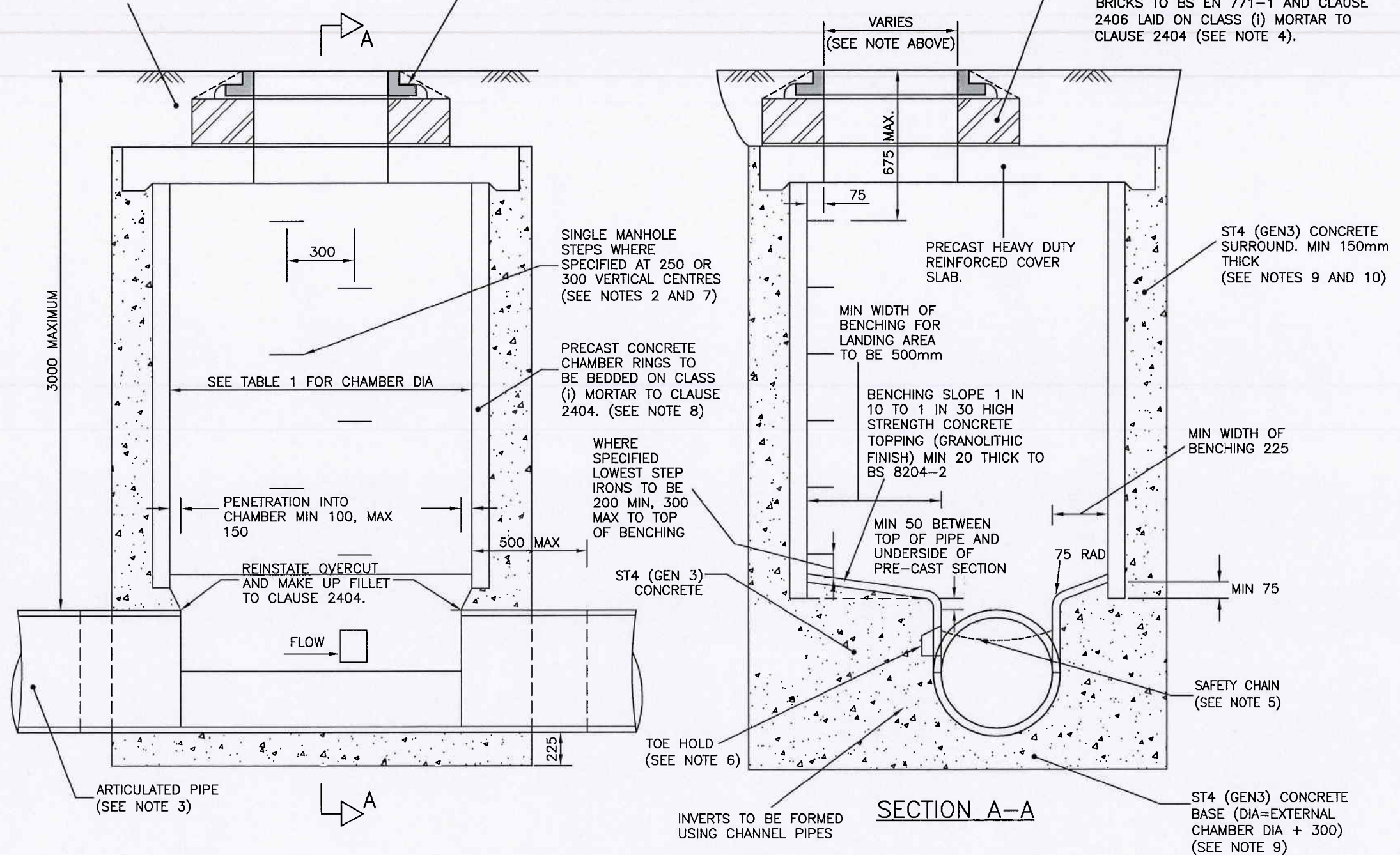
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DRG No.	HCC9/D/015		REVISION B

4000 CADfile: K:\Eng\Standard\AutoCAD\Standard Details (Secure) As Updated Dec 2011\D Series\D_015b.dwg

REINSTATE ABOVE COVER SLAB AS FOLLOWS:

- (i) IN CARRIAGEWAYS - IN MATERIALS SPECIFIED IN APPENDIX 7/1.
- (ii) IN FOOTWAYS AND OTHER PAVED AREAS - TO FORMATION LEVEL IN SUBBASE TO CLAUSE 891AR OR 893AR.
- (iii) IN GRASSED AREAS - TO UNDERSIDE OF TOPSOIL IN COMPACTED GENERAL FILL MATERIAL.

COVER AND FRAME SHALL HAVE A CLEAR OPENING AS DESCRIBED IN APPENDIX 5/1, TABLE 5/1.
THE FRAME SHALL BE BEDDED ON MINIMUM 15 THICKNESS OF POLYESTER RESIN MORTAR. WHERE IN VERGE MORTAR HAUNCH TO BE PROVIDED TO COVER AND FRAME.



TYPE	LARGEST PIPE DIA	CHAMBER DIA
M1A	UP TO 300	1200
M1B	375 UP TO 700	1500
M1C	750 UP TO 900	1800

* SEE NOTE 11

TABLE 1

NOMINAL PIPE DIA	EFFECTIVE LENGTH
150 TO 600	600
OVER 600 TO 750	1000
OVER 750	1250

TABLE 2

NOTES: CONT

- 10. ALL CEMENT USED IN INSITU CONCRETE SHALL BE CII(A OR B)-S OR CIII A OR B TO BS 8500-2, TABLE 1 AND ANNEX A.
- 11. FOR CHAMBERS WHERE LARGEST PIPE IS GREATER THAN 900 DIAMETER CONTACT ADOPTING AUTHORITY FOR DETAILS OF CHAMBER DIAMETER.

NOTES:

- 1. ALL DIMENSIONS ARE IN MILLIMETRES.
- 2. CHAMBER RINGS, COVER SLAB AND MANHOLE STEPS ALL TO BS 5911-3 BS EN 1917 AND BS EN 13101. WHERE SPECIFIED MANHOLE STEPS ARE TO BE FITTED AT THE FACTORY.
- 3. ALL PIPES CONNECTING TO THE CHAMBER SHALL HAVE AN ARTICULATED SECTION (ROCKER PIPE) WITH A JOINT AS CLOSE AS POSSIBLE TO THE CHAMBER TO PERMIT SATISFACTORY AND SUBSEQUENT MOVEMENT. THE LENGTH OF ARTICULATED PIPES SHALL BE AS SHOWN IN TABLE 2, BELOW.
- 4. IF THE CHAMBER IS TO BE TRAFFICKED WITHIN 48 HOURS OF BRICKWORK CONSTRUCTION A RAPID HARDENING CEMENTITIOUS OR POLYESTER RESIN MORTAR SHALL BE USED.
- 5. FOR REQUIREMENTS REGARDING THE PROVISION OF SAFETY CHAINS REFER TO APPENDIX 5/1, TABLE 5/1.
- 6. SELF-CLEANING TOE HOLDS ARE TO BE PROVIDED WHERE THE CHANNEL IS GREATER THAN 500 WIDE.
- 7. FOR REQUIREMENTS REGARDING THE PROVISION OF STEP IRONS AND ACCESS LADDER WITHIN MANHOLES TO BE ADOPTED BY OTHERS REFER TO APPENDIX 5/1, TABLE 5/1.
- 8. THE LIFTING EYES IN PRECAST CONCRETE RINGS ARE TO BE POINTED WITH CLASS (i) MORTAR TO CLAUSE 2404.
- 9. THE HEIGHT OF EACH POUR OF CONCRETE SURROUND SHALL NOT EXCEED 2000 AND EACH CONSTRUCTION JOINT SHALL BREAK JOINT WITH THE PRECAST SECTIONS BY AT LEAST 150.

B	NOTES 4, PLUS SUBBASE DETAILS AMENDED.	DEC 11	MT	mt	mt
A	NOTE 10 AMENDED.	DEC 08	MT	MT	PS
	AMENDMENT	DATE	DRAWN	CHKD	APPD

CONSULTANT

Hampshire County Council Engineering

ALISON QUANT BSc MSc MRTP, DIRECTOR OF ENVIRONMENT, THE CASTLE, WINCHESTER.

SCHEME

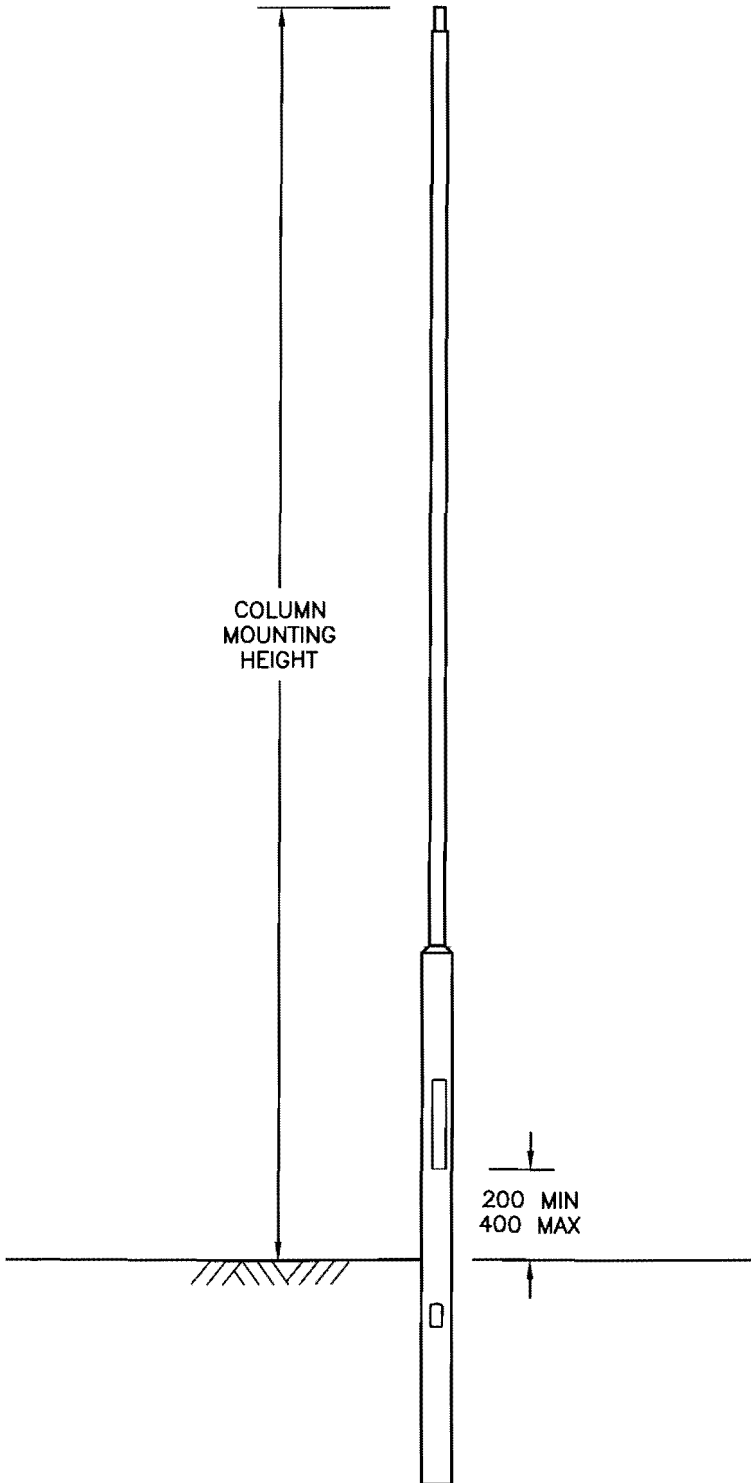
STANDARD DETAILS

DRAWING TITLE

MANHOLE TYPES M1A, M1B & M1C (PRECAST CONCRETE, DEPTH EXCEEDING 1.5m BUT NOT 3.0m)

DRAWN	MT	CHECKED	MT, MT	SCALE	A3 N.T.S.	
CAD	TRK	APPROVED	TPW, TPW	DATE	MAY 2007	
DRG No.	HCC9/D/045				REVISION	B

NOMINAL HEIGHT OF COLUMN	PLANTING DEPTH – MINIMUM	MAXIMUM LANTERN		BS. 5649 'K' FACTOR
		WEIGHT Kg	WINDAGE m ²	
8 METRE	1200mm	12.5	0.22	1.8
10 METRE	1500mm	18	0.27	1.8
12 METRE	1700mm	18	0.27	1.8



POST TOP COLUMN
TYPE 2A

- DOOR OPENINGS – 600x115
CABLE ENTRIES – 150x75
LANTERN MOUNTING – 76 DIA. POST TOP
SPIGOTS
COLUMN NUMBER – 2500 ABOVE GROUND LEVEL

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NOTES:

- ALL DIMENSIONS ARE IN MILLIMETRES.
- FOR DETAILS OF LOCATIONS OF STREET LIGHTING COLUMNS, SEE STREET LIGHTING LAYOUT DRAWINGS.
- COLUMNS SHALL COMPLY WITH BS 5649 AND BS EN 40 AND THE DEPARTMENT OF TRANSPORT MEMORANDA BD 94/07 IN ADDITION TO HCC COLUMN SPECIFICATION WHICH MUST BE READ IN CONJUNCTION WITH THIS DRAWING.
- ANY AREAS DAMAGED DURING INSTALLATION SHALL BE REPAIRED AS FOLLOWS:
 - ALL DAMAGED/CORRODED AREAS SHALL BE DESCALED, CLEANED TO A BRIGHT METAL SUBSTRATE AND DRIED,
 - APPLY CAR BODY FILLER TO THE DAMAGED SURFACE AND CLEAN OFF ANY EXCESS,
 - AFTER HARDENING HAS TAKEN PLACE RUB DOWN WITH SMOOTH SAND PAPER,
 - APPLY TWO COATS OF 'SUPERSHEEN/SUPERTHANE/TUFFCOAT' TWO PACK POLYURETHANE – ISOCYANATE CURED PAINT COLOUR 12 B 21 UNLESS OTHERWISE SPECIFIED.
- POST TOP MOUNTED LANTERNS SHALL HAVE A MAXIMUM TILT OF 5°.
- DOORS TO BE SECURED BY STAINLESS STEEL M8 ANTI-VANDAL DOOR BOLTS WITH HEXAGONAL HEAD COMPLETE WITH INTEGRAL CENTRE PIN, CAPABLE OF BEING OPERATED ONLY WITH SPECIAL HEXAGONAL KEY WITH CENTRE HOLE TO ACCEPT PIN LOCATION.

B	TYPE 2A DELETED, TYPE 2C CHANGED TO TYPE 2A. NOTES AMENDED.	MAY 10	JH		
A	TRANSPORT MEMORANDA REFERENCE & NOTE 5 AMENDED, NOTE 6 ADDED.	DEC 08	MT	SB	JAH
REV.	AMENDMENT	DATE	DRAWN	CHKD	APPD

 Hampshire County Council  

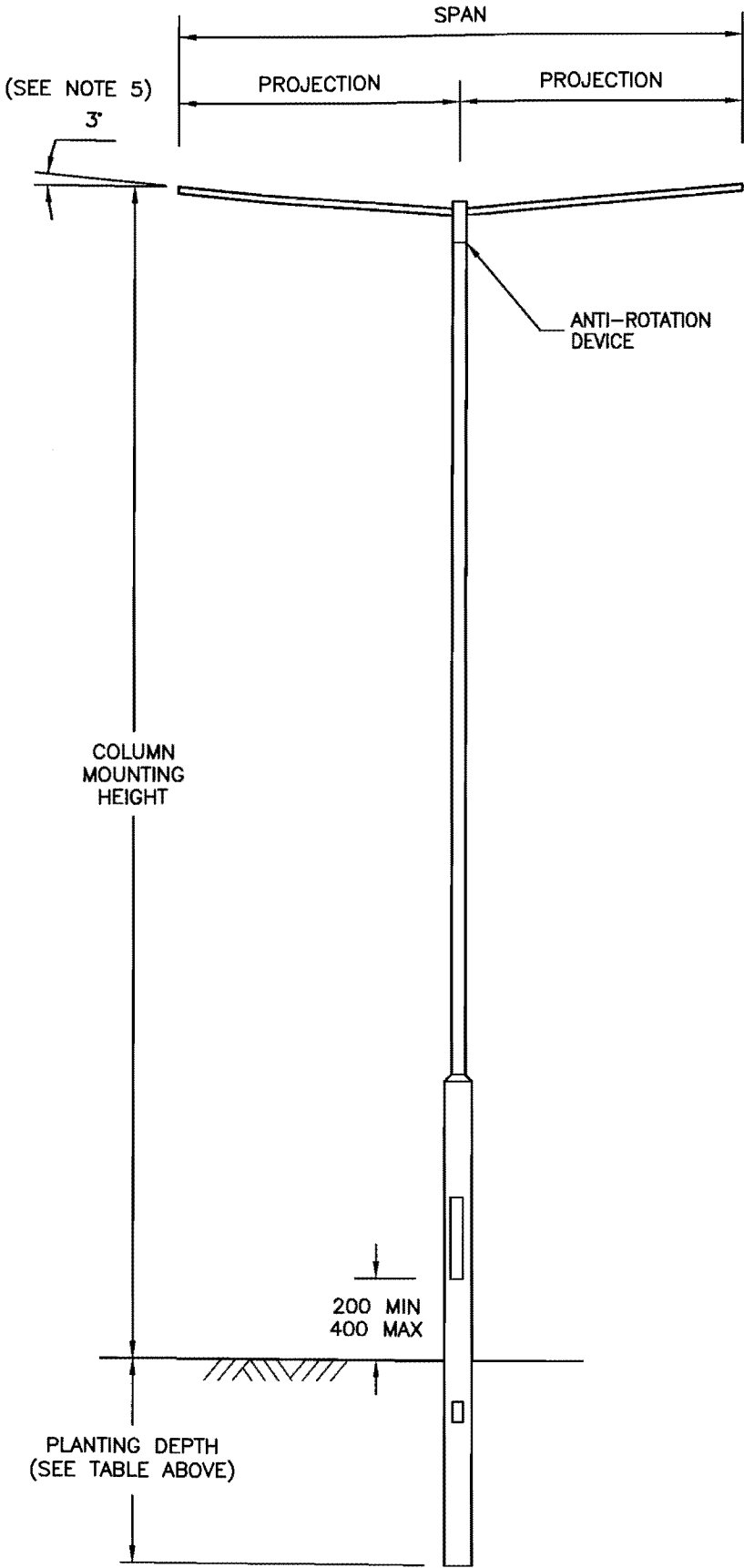
J.D.KELKINS, O.B.E., FREng, FICE, COUNTY SURVEYOR, THE CASTLE, WINCHESTER.

STANDARD DETAILS

DRAWING TITLE			
COLUMN TYPES 2A TUBULAR STEEL PLANTED COLUMNS			
HCC CADfile:			
DRAWN	DT	CHECKED	SB, SB
CAD	RAM	APPROVED	JAH, JAH
DRG No.	HCC9/L/015	SCALE	A3 N.T.S.
		DATE	MAY 2010
		REVISION	B

HCC CADfile: C:\DOCUMENT~1\Hantsnet\LOCALS~1\Temp\Temporary Directory 2 for Revised HCC Detail Drawings.zip\L_015 B.dwg

NOMINAL HEIGHT OF COLUMN	BRACKET PROJECTION MAXIMUM (IF APPLICABLE)	PLANTING DEPTH – MINIMUM	MAXIMUM LANTERN		B.S. 5649 'K' FACTOR
			WEIGHT Kg	WINDAGE m ²	
8 METRE DOUBLE	0.5m SPAN	1200mm	12.5 (x TWO)	0.22 (x TWO)	1.8
10 METRE DOUBLE	0.5m SPAN	1500mm	18 (x TWO)	0.27 (x TWO)	1.8
12 METRE DOUBLE	0.5m SPAN	1700mm	18 (x TWO)	0.27 (x TWO)	1.8



DOOR OPENINGS – 600x115
 CABLE ENTRIES – 150x75
 LANTERN MOUNTING – 42/48 DIA SIDE ENTRY
 SPIGOTS
 COLUMN NUMBER – 2500 ABOVE GROUND LEVEL

DOUBLE BRACKET
 COLUMN TYPE 2B

NOTES:

- ALL DIMENSIONS ARE IN MILLIMETRES.
- FOR DETAILS OF LOCATIONS OF STREET LIGHTING COLUMNS, SEE STREET LIGHTING LAYOUT DRAWINGS.
- COLUMNS SHALL COMPLY WITH BS 5649 AND BS EN 40 AND THE DEPARTMENT OF TRANSPORT MEMORANDA BD 94/07 IN ADDITION TO HCC COLUMN SPECIFICATION WHICH MUST BE READ IN CONJUNCTION WITH THIS DRAWING.
- ANY AREAS DAMAGED DURING INSTALLATION SHALL BE REPAIRED AS FOLLOWS:
 - ALL DAMAGED/CORRODED AREAS SHALL BE DESCALED, CLEANED TO A BRIGHT METAL SUBSTRATE AND DRIED,
 - APPLY CAR BODY FILLER TO THE DAMAGED SURFACE AND CLEAN OFF ANY EXCESS,
 - AFTER HARDENING HAS TAKEN PLACE RUB DOWN WITH SMOOTH SAND PAPER,
 - APPLY TWO COATS OF 'SUPERSHEEN/SUPERTHANE/TUFFCOAT' TWO PACK POLYURETHANE – ISOCYANATE CURED PAINT COLOUR 12 B 21 UNLESS OTHERWISE SPECIFIED.
- LANTERNS SHALL HAVE A MAXIMUM TILT OF 5°.
- DOORS TO BE SECURED BY STAINLESS STEEL M8 ANTI-VANDAL DOOR BOLTS WITH HEXAGONAL HEAD COMPLETE WITH INTEGRAL CENTRE PIN, CAPABLE OF BEING OPERATED ONLY WITH SPECIAL HEXAGONAL KEY WITH CENTRE HOLE TO ACCEPT PIN LOCATION.

B	NOTES AMENDED.	MAY 10	JH	SB	JAH
A	TRANSPORT MEMORANDA REFERENCE & NOTE 5 AMENDED. NOTE 6 ADDED.	DEC 08	MT	SB	JAH
REV.	AMENDMENT	DATE	DRAWN	CHKD	APPD

Hampshire County Council **Engineering CONSULTANCY**

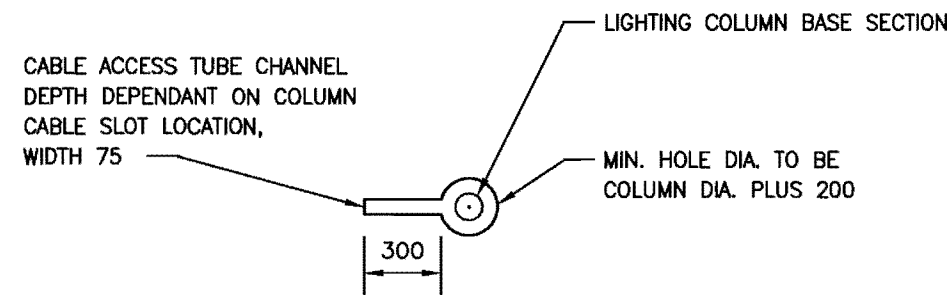
J.D.K.B.M.S. O.B.E., F.R.E., F.C.E., COUNTY SURVEYOR, THE CASTLE, WINCHESTER.

STANDARD DETAILS

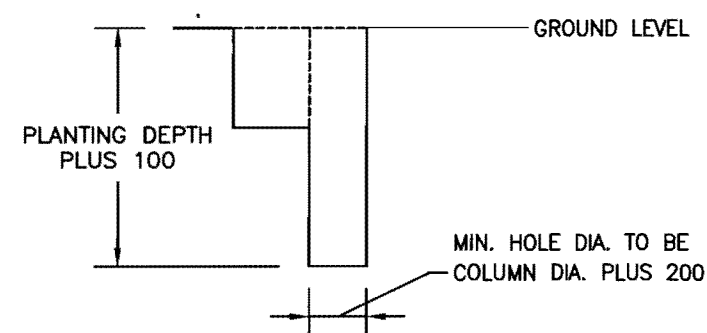
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DRAWN DT	SB, SB	A3 N.T.S.
CAD RAM	APPROVED JAH, JAH	DATE MAY 10
DRG No. HCC9/L/020	REVISION B	

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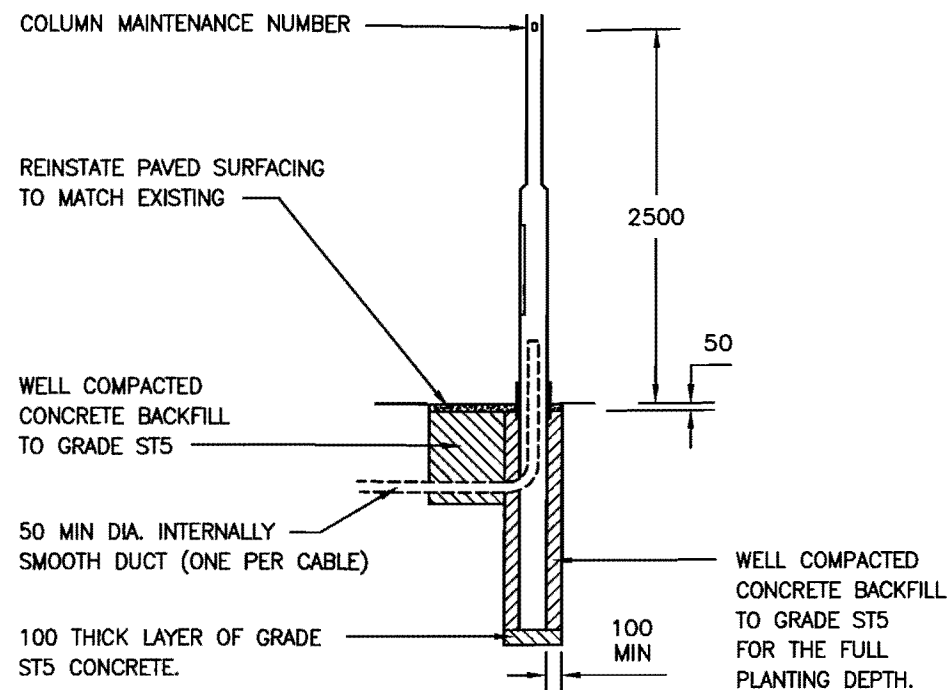
PLAN OF EXCAVATED FOUNDATION



DETAIL OF EXCAVATED FOUNDATION

COLUMN HOLE EXCAVATION

1. COLUMN HOLE TO BE EXCAVATED BY HAND TO REQUIRED DIMENSIONS.
2. HOLE TO BE CUT SQUARE AT BOTTOM.
3. ALL SURPLUS MATERIAL TO BE REMOVED FROM SITE.
4. THE STEPPED HOLE METHOD OF EXCAVATION SHALL NOT BE PERMITTED.



NOTES FOR COLUMN ERECTION IN PAVED AREAS

1. TO PROTECT COLUMN FINISH A NYLON WEBBED SLING SHALL BE USED TO LIFT THE COLUMN WITH THE CRANE.
2. THE COLUMN DOOR SHALL FACE DOWNSTREAM TO THE TRAFFIC FLOW.
3. THE COLUMN SHALL BE TRULY VERTICAL ON COMPLETION OF THE INSTALLATION.
4. INSERT CABLE ACCESS DUCT INTO COLUMN CABLE SLOT, THE DUCT SHALL BE BLACK, FLEXIBLE POLYPROPYLENE.
5. THE HOLE SHALL BE COMPLETELY BACKFILLED IN ONE OPERATION AND TAMPED TO A LEVEL 50 BELOW THE SURFACE OF THE SURROUNDING PAVEMENT.

NOTES FOR ERECTION OF BRACKET ARM

1. THE SHAFT SHALL BE LEFT FOR 48 HOURS BEFORE THE BRACKET IS ATTACHED TO THE SHAFT.
2. ERECT BRACKET ARM, LANTERN, LAMP, INSTALL WIRING AND GEAR, LEAVE IN WORKING ORDER, LANTERN SHALL BE AT 90° TO KERB LINE AND PARALLEL TO THE ROAD SURFACE.

NOTES:

1. ALL DIMENSIONS ARE IN MILLIMETRES.
2. FOR DETAILS OF LOCATIONS OF STREET LIGHTING COLUMNS, SEE STREET LIGHTING LAYOUT DRAWINGS.
3. COLUMNS SHALL COMPLY WITH BS 5649 AND BS EN 40 AND THE DEPARTMENT OF TRANSPORT MEMORANDA BD 94/07 IN ADDITION TO HCC COLUMN SPECIFICATION WHICH MUST BE READ IN CONJUNCTION WITH THIS DRAWING.
4. ANY AREAS DAMAGED DURING INSTALLATION SHALL BE REPAIRED AS FOLLOWS:
 - a) ALL DAMAGED/CORRODED AREAS SHALL BE DESCALED, CLEANED TO A BRIGHT METAL SUBSTRATE AND DRIED,
 - b) APPLY CAR BODY FILLER TO THE DAMAGED SURFACE AND CLEAN OFF ANY EXCESS,
 - c) AFTER HARDENING HAS TAKEN PLACE RUB DOWN WITH SMOOTH SAND PAPER,
 - d) APPLY TWO COATS OF 'SUPERSHEEN/SUPERTHANE/TUFFCOAT' TWO PACK POLYURETHANE - ISOCYANATE CURED PAINT COLOUR 12 B 21 UNLESS OTHERWISE SPECIFIED.

B	AMENDED NOTES, DELETED STRIMMEX NOTE	MAY 10	JH	for	
A	TRANSPORT MEMORANDA REFERENCE	DEC 08	MT	SB	JAH
	AMENDMENT	DATE	DRAWN	CHKD	APPD

CONSULTANT



ALISON QUANT BSc MSc MRTP, DIRECTOR OF ENVIRONMENT, THE CASTLE, WINCHESTER.

SCHEME

STANDARD DETAILS

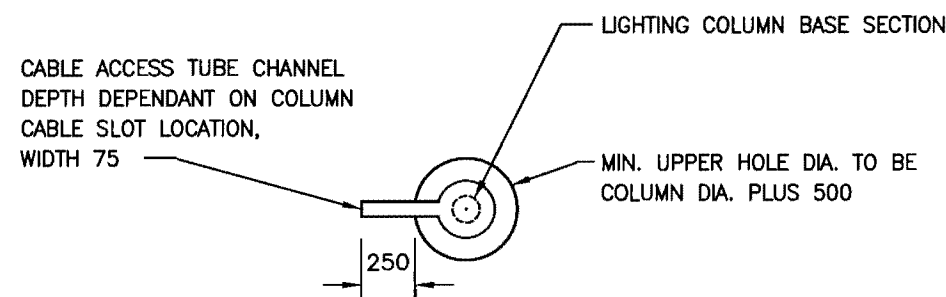
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PLANTED COLUMN ERECTION DETAILS FOR LOCATIONS IN PAVED AREAS

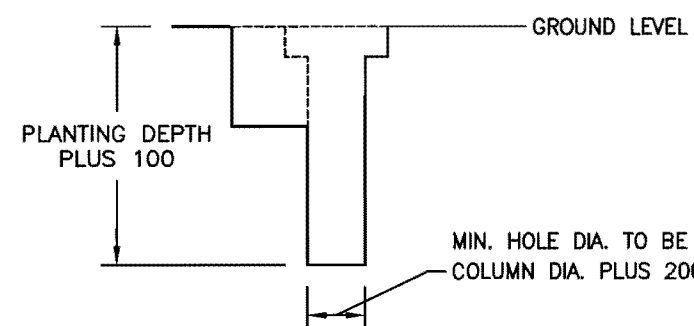
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DRAWN	DT	CHECKED	SB, SB	SCALE	A3 N.T.S.
CAD	RAM	APPROVED	JAH, JAH	DATE	MAY 2010
DRG No.	HCC9/L/025	REVISION			B

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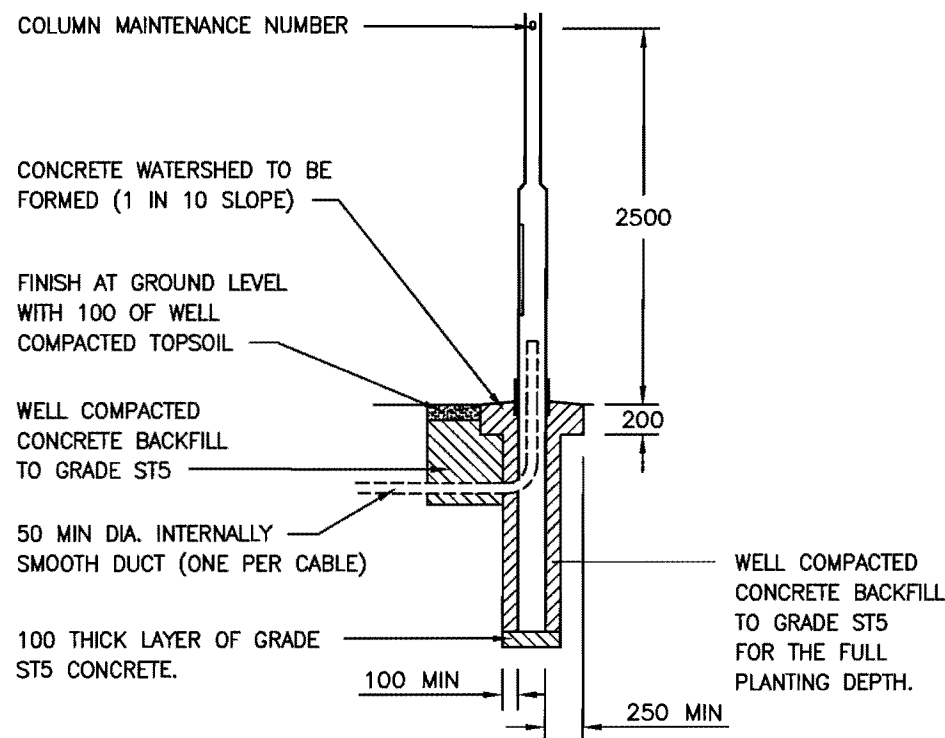
PLAN OF EXCAVATED FOUNDATION



DETAIL OF EXCAVATED FOUNDATION

COLUMN HOLE EXCAVATION

1. COLUMN HOLE TO BE EXCAVATED BY HAND TO REQUIRED DIMENSIONS.
2. HOLE TO BE CUT SQUARE AT BOTTOM.
3. ALL SURPLUS MATERIAL TO BE REMOVED FROM SITE.
4. THE STEPPED HOLE METHOD OF EXCAVATION SHALL NOT BE PERMITTED.



NOTES FOR COLUMN ERECTION IN UN-PAVED AREAS

1. TO PROTECT COLUMN FINISH A NYLON WEBBED SLING SHALL BE USED TO LIFT THE COLUMN WITH THE CRANE.
2. THE COLUMN DOOR SHALL FACE DOWNSTREAM TO THE TRAFFIC FLOW.
3. THE COLUMN SHALL BE TRULY VERTICAL ON COMPLETION OF THE INSTALLATION.
4. INSERT CABLE ACCESS DUCT INTO COLUMN CABLE SLOT, THE DUCT SHALL BE BLACK, FLEXIBLE POLYPROPYLENE.
5. THE HOLE SHALL BE COMPLETELY BACKFILLED IN ONE OPERATION AND THE CONCRETE SHALL BE TAMPED AND TROWELLED TO FORM A WATERSHED WITH A SMOOTH FINISH U2. WHERE TOPSOIL HAS STILL TO BE APPLIED TO THE AREA SURROUNDING THE COLUMN THE CONCRETE SHALL BE BROUGHT TO FINISHED LEVEL BY USE OF SUITABLE SHUTTERING.

NOTES FOR ERECTION OF BRACKET ARM

1. THE SHAFT SHALL BE LEFT FOR 48 HOURS BEFORE THE BRACKET IS ATTACHED TO THE SHAFT.
2. ERECT BRACKET ARM, LANTERN, LAMP, INSTALL WIRING AND GEAR, LEAVE IN WORKING ORDER, LANTERN SHALL BE AT 90° TO KERB LINE AND PARALLEL TO THE ROAD SURFACE.

NOTES:

1. ALL DIMENSIONS ARE IN MILLIMETRES.
2. FOR DETAILS OF LOCATIONS OF STREET LIGHTING COLUMNS, SEE STREET LIGHTING LAYOUT DRAWINGS.
3. COLUMNS SHALL COMPLY WITH BS 5649 AND BS EN 40 AND THE DEPARTMENT OF TRANSPORT MEMORANDA BD 94/07 IN ADDITION TO HCC COLUMN SPECIFICATION WHICH MUST BE READ IN CONJUNCTION WITH THIS DRAWING.
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 - b) APPLY CAR BODY FILLER TO THE DAMAGED SURFACE AND CLEAN OFF ANY EXCESS,
 - c) AFTER HARDENING HAS TAKEN PLACE RUB DOWN WITH SMOOTH SAND PAPER,
 - d) APPLY TWO COATS OF 'SUPERSHEEN/SUPERTHANE/TUFFCOAT' TWO PACK POLYURETHANE - ISOCYANATE CURED PAINT COLOUR 12 B 21 UNLESS OTHERWISE SPECIFIED.

B	AMENDED NOTES, DELETED STRIMMEX NOTE	MAY 10	JH	SB	JAH
A	TRANSPORT MEMORANDA REFERENCE	DEC. 08	MT	SB	JAH
	AMENDED				
AMENDMENT		DATE	DRAWN	CHKD	APPD

CONSULTANT



ALISON QUAY BSc MSc MRTP, DIRECTOR OF ENVIRONMENT, THE CASTLE, WINCHESTER.

SCHEME

STANDARD DETAILS

DRAWING TITLE

**PLANTED COLUMN ERECTION
DETAILS FOR LOCATIONS
IN UN-PAVED AREAS**

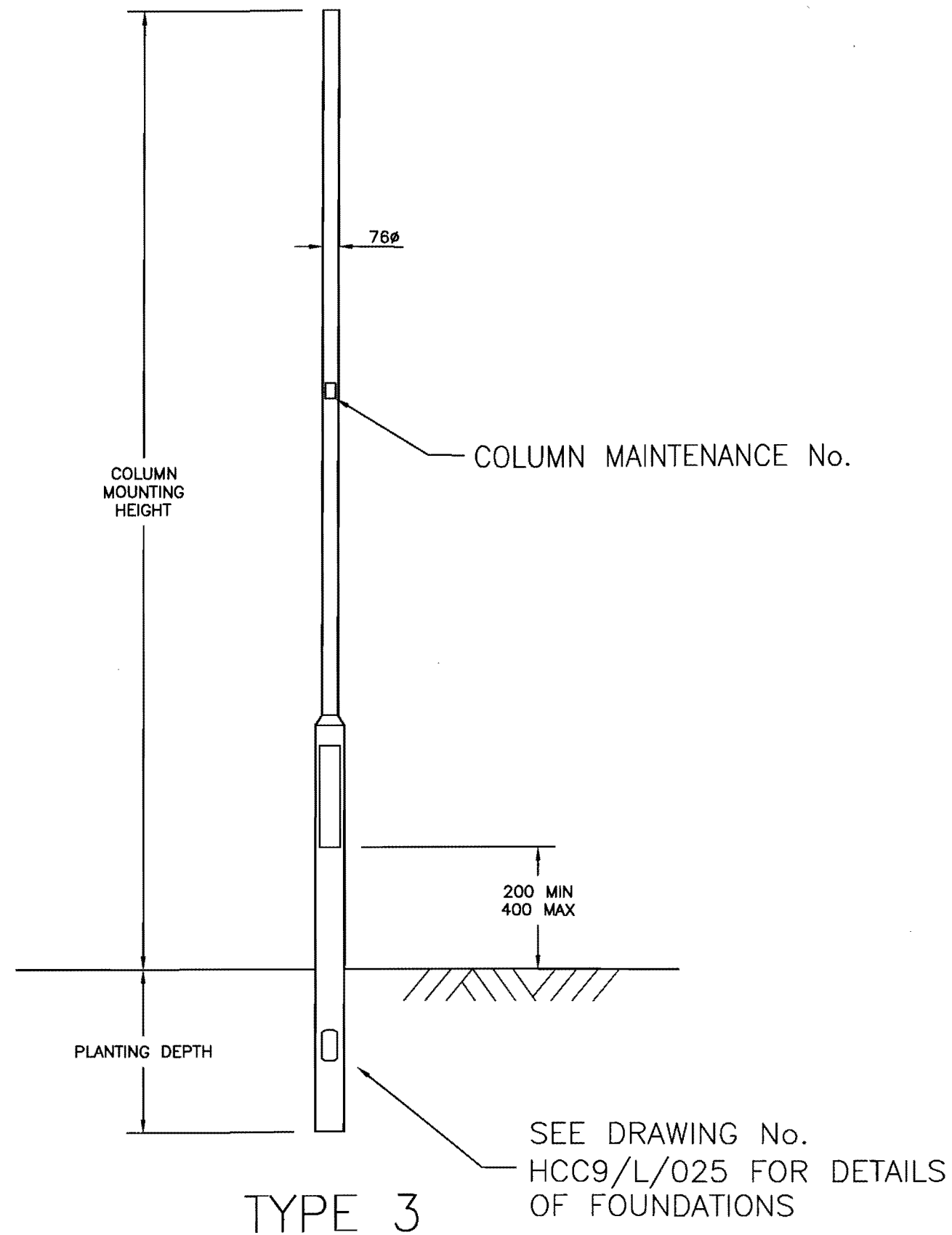
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DRAWN	DT	CHECKED	SB, SB	SCALE	A3 N.T.S.
CAD	RAM	APPROVED	JAH, JAH	DATE	MAY 2010
DRG No.	HCC9/L/026			REVISION	B

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DOOR OPENINGS - 500x100
 CABLE ENTRIES - 150x75
 LANTERN MOUNTING - 76 DIA. POST TOP
 SPIGOTS - 34 DIA. SIDE ENTRY
 COLUMN NUMBER - 2500 ABOVE GROUND LEVEL



POST TOP TYPE		
NOMINAL HEIGHT	COLUMN HEIGHT	PLANTING DEPTH
5m	4700	800
6m	5700	1000

NOTES:

- ALL DIMENSIONS ARE IN MILLIMETRES.
- FOR DETAILS OF LOCATIONS OF STREET LIGHTING COLUMNS, SEE STREET LIGHTING LAYOUT DRAWINGS.
- COLUMNS SHALL COMPLY WITH BS 5649 AND BS EN 40 AND THE DEPARTMENT OF TRANSPORT MEMORANDA BD 94/07 IN ADDITION TO HCC COLUMN SPECIFICATION WHICH MUST BE READ IN CONJUNCTION WITH THIS DRAWING.
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 - APPLY CAR BODY FILLER TO THE DAMAGED SURFACE AND CLEAN OFF ANY EXCESS,
 - AFTER HARDENING HAS TAKEN PLACE RUB DOWN WITH SMOOTH SAND PAPER,
 - APPLY TWO COATS OF 'SUPERSHEEN/SUPERTHANE/TUFFCOAT' TWO PACK POLYURETHANE - ISOCYANATE CURED PAINT COLOUR 12 B 21 UNLESS OTHERWISE SPECIFIED.
- LANTERN TILT FOR COLUMN TYPE 3 TO BE MAXIMUM OF 5°.
- DOOR TO BE SECURED BY STAINLESS STEEL M8 ANTI-VANDAL DOOR BOLTS WITH HEXAGONAL HEAD COMPLETE WITH INTEGRAL CENTRE PIN, CAPABLE OF BEING OPERATED ONLY WITH SPECIAL HEXAGONAL KEY WITH CENTRE HOLE TO ACCEPT PIN LOCATION.

B	DELETED TYPE 3, CHANGED TYPE 4 TO TYPE 3, AMENDED NOTES.	MAY 10	JH	SB	JAH
A	TRANSPORT MEMORANDA REFERENCE AMENDED, NOTES 5 & 6 ADDED	DEC 08	MT	SB	JAH
REV.	AMENDMENT	DATE	DRAWN	CHKD	APPD



J.D.KELKINS, O.B.E., FREng, FICE, COUNTY SURVEYOR, THE CASTLE, WINCHESTER.

STANDARD DETAILS

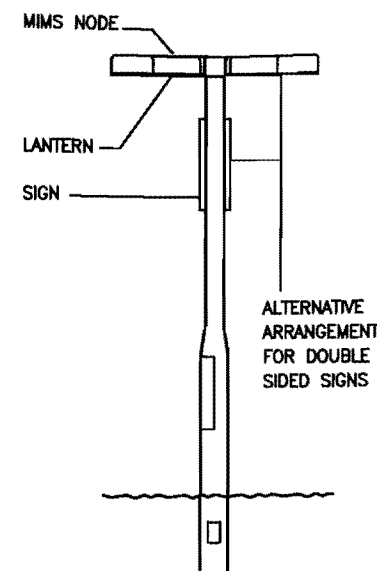
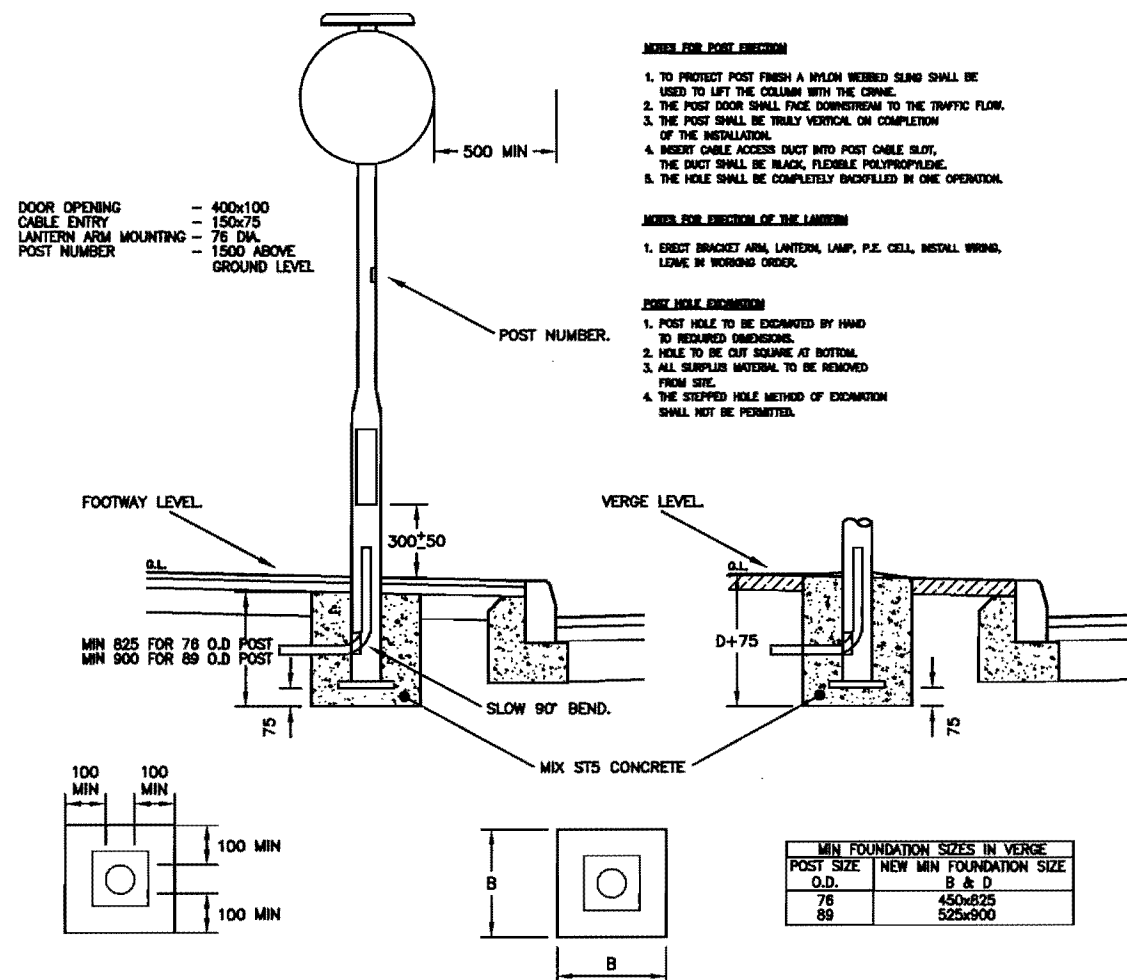
DRAWING TITLE
**COLUMN TYPE 3
 TUBULAR STEEL PLANTED
 COLUMNS FOR RESIDENTIAL ROADS**

HCC CADfile:	CHECKED	SCALE	DATE
DRAWN DT	SB, SB	A3 N.T.S.	
CAD	APPROVED	DATE	
	JAH, JAH	MAY 2010	
DRG No.	HCC9/L/045	REVISION	B

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HCC CADfile: C:\Temp\L_045 B.dwg

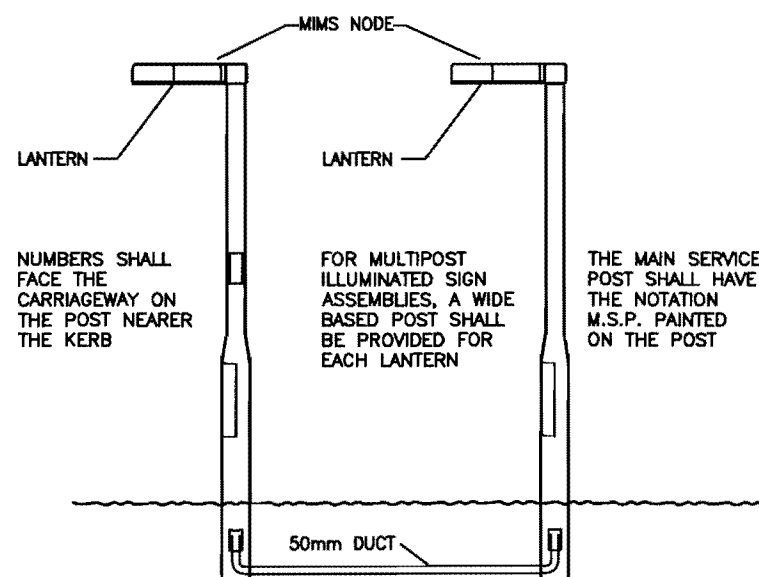


EQUIPMENT ARRANGEMENT

SINGLE POST ILLUMINATED SIGN(S)

FOUNDATION DETAILS IN FOOTWAY AND OTHER PAVED AREAS.

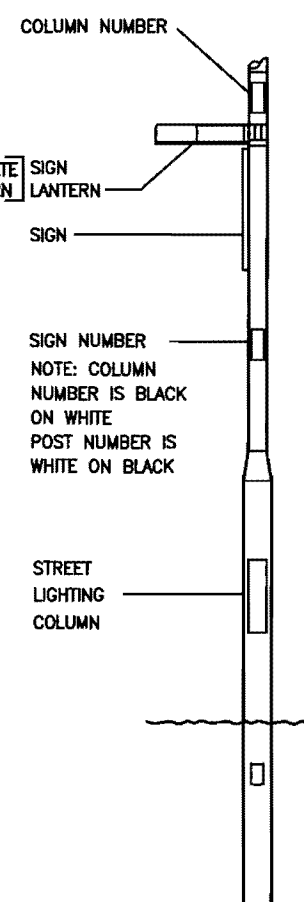
FOUNDATION DETAILS IN GRASS VERGE.



EQUIPMENT ARRANGEMENT

TWIN POST ILLUMINATED SIGN

SIGN LANTERN WILL HAVE SEPARATE "MIMS NODE" FROM ROAD LANTERN



SINGLE ILLUMINATED SIGN ATTACHED TO A STREET LIGHTING COLUMN

NOTES:

1. ALL DIMENSIONS ARE IN MILLIMETRES.
2. FOR DETAILS OF LOCATIONS OF ILLUMINATED SIGNS SEE STREET LIGHTING LAYOUT DRAWINGS.
3. POSTS FOR ILLUMINATED SIGNS SHALL BE WIDE POST TYPE.
4. DUCTS INTO ILLUMINATED SIGN SHALL BE CAST INTO THE CONCRETE FOUNDATIONS ENSURING NO SHARP BENDS IN THE DUCT.
5. SEE SIGN SCHEDULES FOR VERTICAL AND HORIZONTAL CLEARANCES TO SIGN FACES.
6. SEE DRAWING No. HCC9/C/140 FOR DETAILS OF TWIN POST FOUNDATIONS.
7. DUCTS SHALL BE MINIMUM 50mm AND INTERNALLY SMOOTH. ONE DUCT PER CABLE. MINIMUM COVER TO DUCT SHALL BE 450.
8. CONCRETE FOR ALL FOUNDATIONS SHALL BE ST5.
9. IN SOFT VERGES ADDITIONAL CONCRETE SHALL BE USED AS REQUIRED TO ENSURE STABILITY.
10. DOORS TO BE SECURED BY STAINLESS STEEL M8 ANTI-VANDAL DOOR BOLTS WITH HEXAGONAL HEAD COMPLETE WITH INTEGRAL CENTRE PIN, CAPABLE OF BEING OPERATED ONLY WITH SPECIAL HEXAGONAL KEY WITH CENTRE HOLE TO ACCEPT PIN LOCATION.
11. CURRENT CARRYING CABLES SHALL BE 1.5mm² SINGLE CORE INSULATED AND SHEATHED OR MULTICORE FLEXIBLE CABLE OF 300/500 VOLT GRADE, CORRECTLY COLOUR CODED CABLES FOR EARTHING SHALL BE MINIMUM 2.5mm² SINGLE CORE P.V.C INSULATION. P.V.C INSULATED.

B	AMALGAMATED WITH HCC9/L/055	MAY 10	JH	FW	
A	CROSS REFERENCE DRAWING NUMBERS AMENDED. NOTE 11 ADDED.	DEC 08	MT	SB	PS
	AMENDMENT	DATE	DRAWN	CHKD	APPD

CONSULTANT



ALISON QUANT BSc MSc MRTP, DIRECTOR OF ENVIRONMENT, THE CASTLE, WINCHESTER.

SCHEME

STANDARD DETAILS

DRAWING TITLE

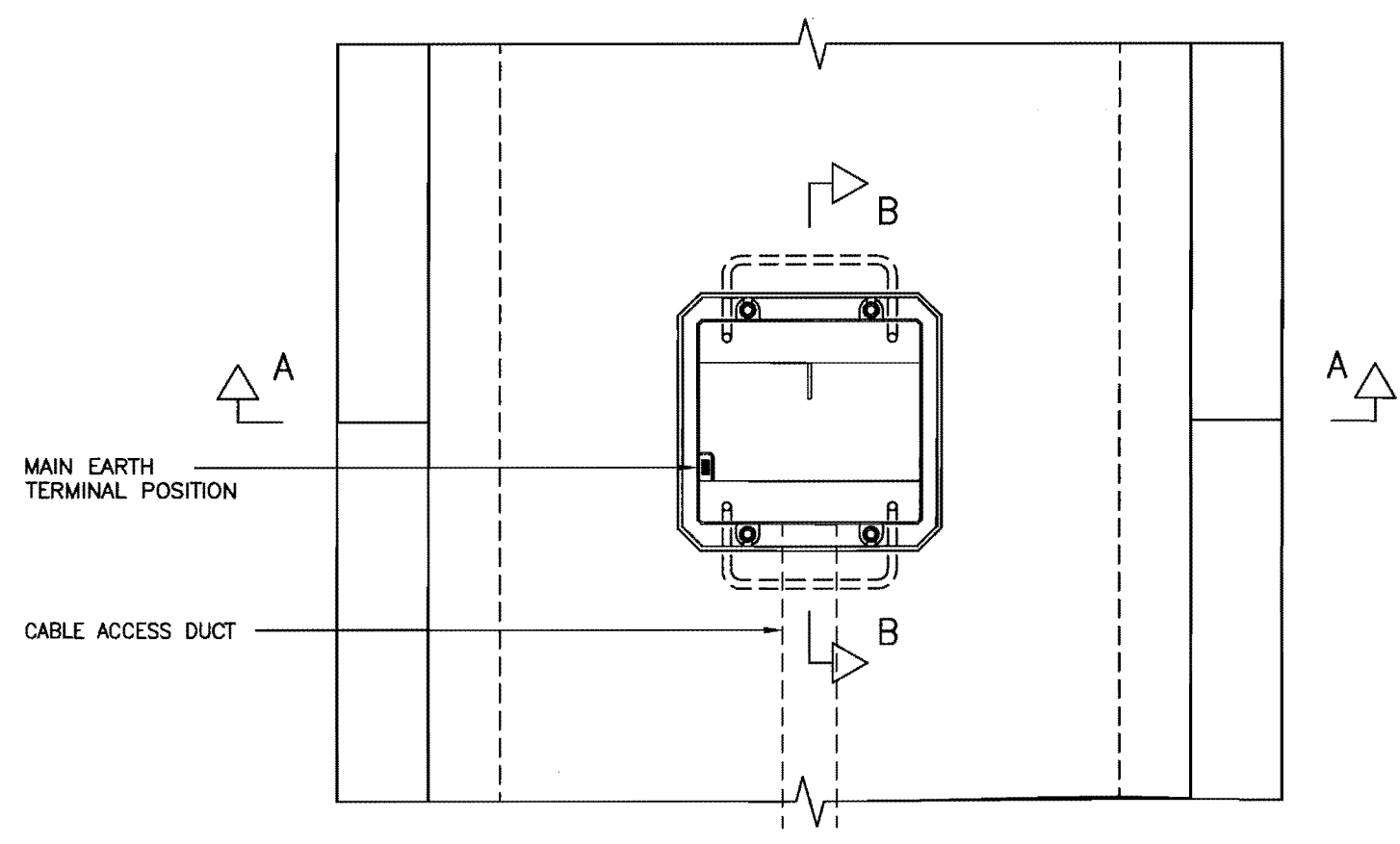
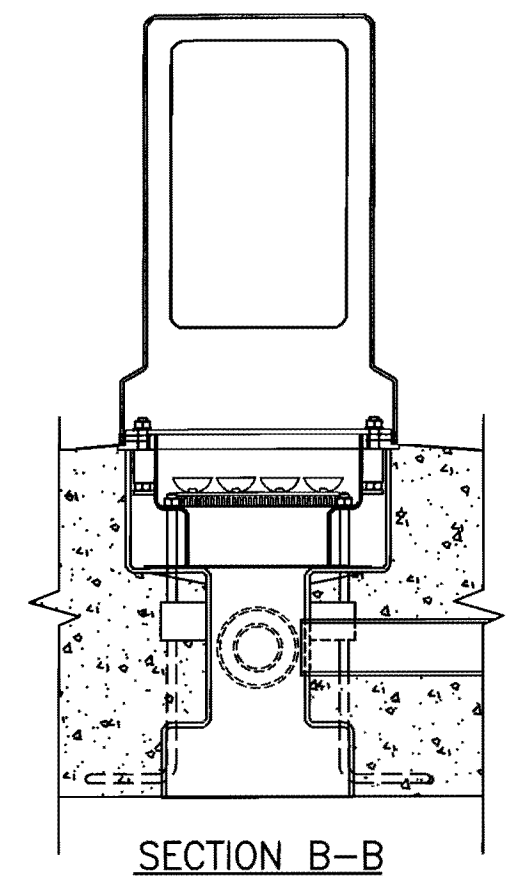
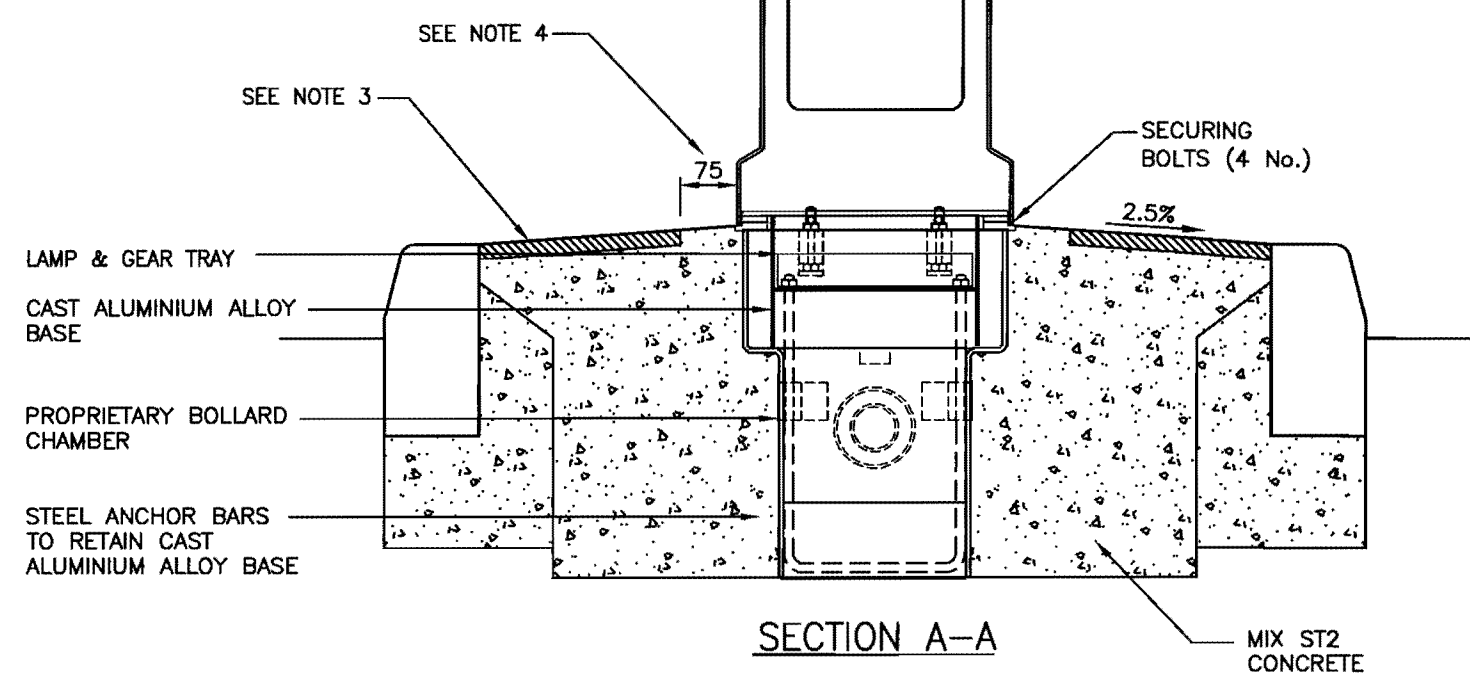
EXTERNALLY ILLUMINATED SIGN MOUNTED ON STEEL POST AND FOUNDATION DETAILS

HCC CADplot:	CHECKED	SCALE
DRAWN	SB, JAH	A3 N.T.S.
CAD	APPROVED	DATE
RAM	SB, JAH	MAY 2010
DRG No.	HCC9/L/050	REVISION
		B

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BOLLARD TO BE TO HAMPSHIRE COUNTY COUNCIL SPECIFICATION (SIGNATURE LTD)



PLAN VIEW OF BASE BOX

NOTES:

1. ALL DIMENSIONS ARE IN MILLIMETRES.
2. SEE SIGN SCHEDULE FOR BOLLARD ASPECT DETAILS.
3. SEE DRAWING No. HCC9/C/085 FOR DETAILS OF SURFACE FINISH TO ISLANDS.
4. CAREFULLY FORM 75 WIDE INSITU CONCRETE COLLAR AROUND BOLLARD BASE TO LEVEL SHOWN.
5. FOR DETAILS OF LOCATIONS OF BOLLARDS SEE STREET LIGHTING LAYOUT DRAWINGS.
6. FOR BOLLARD AND DRAWPIT COMBINATIONS SEE DRAWING No. HCC9/L/150.
7. MINIMUM CONCRETE VOLUME EVENLY SURROUNDING BASE SECTION SHALL BE 0.8m³.

A	AMENDED NOTES, AND BOLLARD DETAIL CHANGED FROM LAMPS TO LEDS	MAY 10	JH	APPD
	AMENDMENT	DATE	DRAWN	CHKD

CONSULTANT

Hampshire County Council Engineering CONSULTANCY

ALISON QUANT BSc MSc MRTP, DIRECTOR OF ENVIRONMENT, THE CASTLE, WINCHESTER.

SCHEME

STANDARD DETAILS

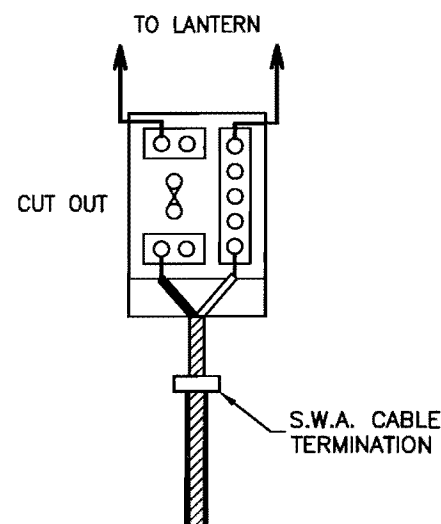
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INTERNALLY ILLUMINATED BOLLARD DETAILS

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CAD TRK	APPROVED JAH, JAH	DATE	MAY 2010
DRG No. HCC9/L/060		REVISION	A

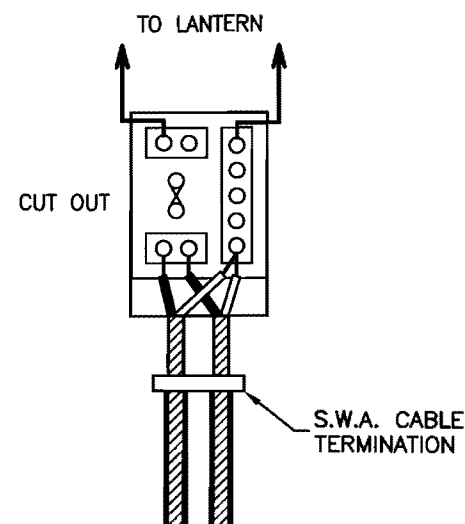
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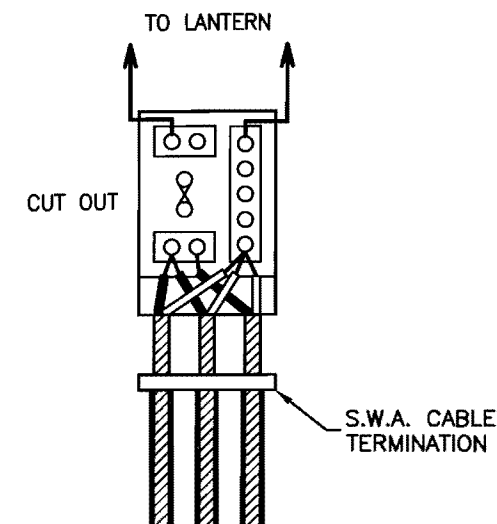
TYPE 1

SINGLE WAY TERMINATION TO
2C PVC/SWA/PVC CABLE



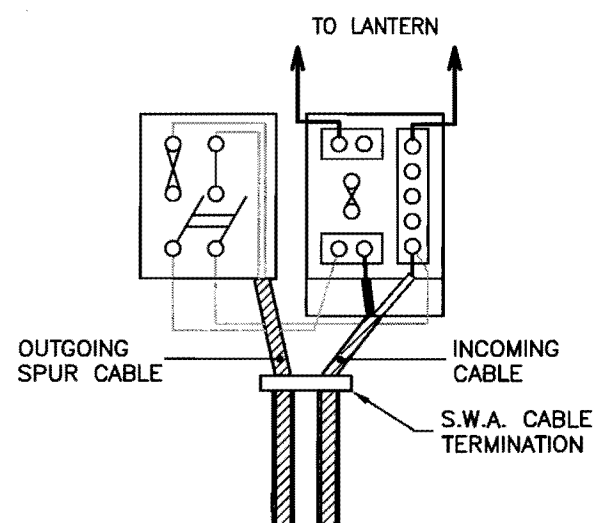
TYPE 2

LOOPED TERMINATION TO
2C PVC/SWA/PVC CABLE



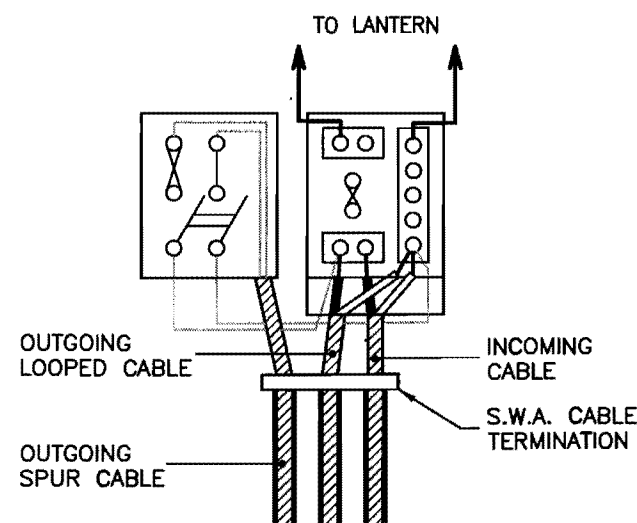
TYPE 3

THREE WAY TERMINATION TO
2C PVC/SWA/PVC CABLE



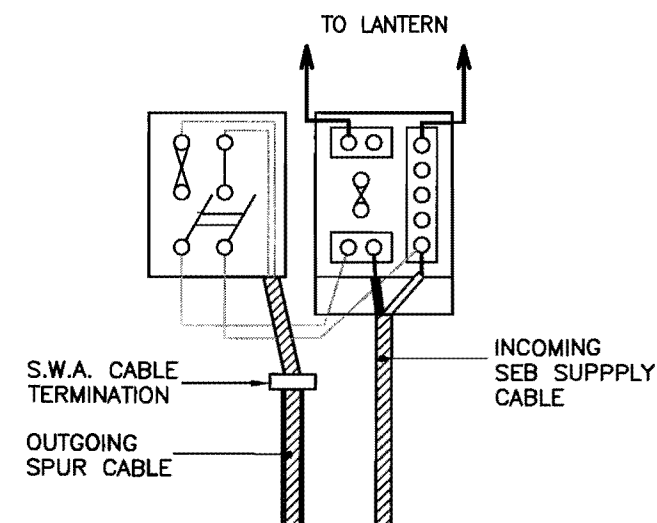
TYPE 4

SINGLE WAY TERMINATION TO
2 CORE PVC/SWA/PVC CABLE WITH 2
CORE PVC/SWA/PVC SPUR CABLE



TYPE 5

LOOPED TERMINATION TO
2 CORE PVC/SWA/PVC CABLE WITH 2
CORE PVC/SWA/PVC SPUR CABLE



TYPE 6

INCOMING SEB SUPPLY WITH
PVC/SWA/PVC OUTGOING 2 CORE
SPUR CABLE

NOTES:

1. S.W.A. TERMINATIONS ARE REQUIRED AND SHALL BE CONNECTED TOGETHER AND TO THE COLUMN OR ILLUMINATED SIGN POST EARTH STUD BY 6mm² CU. CIRCUIT PROTECTIVE CONDUCTOR.
2. ALL CUT OUTS SHALL HAVE H.R.C. FUSE IN PULL OUT CARRIER AND PROVISION FOR LIVE, NEUTRAL AND EARTH CABLE CONNECTIONS INCLUDING A P.M.E. LINK.
3. ALL CUT OUTS SHALL BE DRIP PROOF.
4. MAXIMUM CABLE ENTRY 3X35mm² 2c CU. CABLES.
5. ALL FIXING SCREWS, NUTS ETC. TO BE STAINLESS STEEL.
6. FOR METHOD OF EARTHING XLPE/SWA/XLPE CABLES SEE DRAWING NUMBER HCC9/L/085.
7. TYPE 6, CORRECT FUSE DISCRIMINATION MUST BE ENSURED FOR EACH APPLICATION.
8. ISOLATORS SHALL COMPLY WITH BS.EN 60947.
9. EACH CABLE SHALL BE PROVIDED WITH A DURABLE LABEL INDICATING PHASE AND LOCATION OF ORIGIN.

B	AMENDED CABLE TYPE	MAY 10	JH	ben	2
A	CROSS REFERENCE DRAWING NUMBERS	DEC. 08	MT	SB	JAH
REV.	AMENDMENT	DATE	DRAWN	CHKD	APPD



J.D.KEDDINS, O.B.E., F.R.E.S., F.C.E., COUNTY SURVEYOR, THE CASTLE, WINCHESTER.

STANDARD DETAILS

DRAWING TITLE
**TERMINATION OF (S.W.A).
CABLES IN COLUMNS
OR POSTS FOR A
PRIVATE NETWORK**

HCC CADfile:	DRAWN	CHECKED	SCALE
	DT	SB, SB	A3 N.T.S.
CAD	RAM	APPROVED	DATE
		JAH, JAH	MAY 2010
DRG No.	HCC9/L/065	REVISION	B

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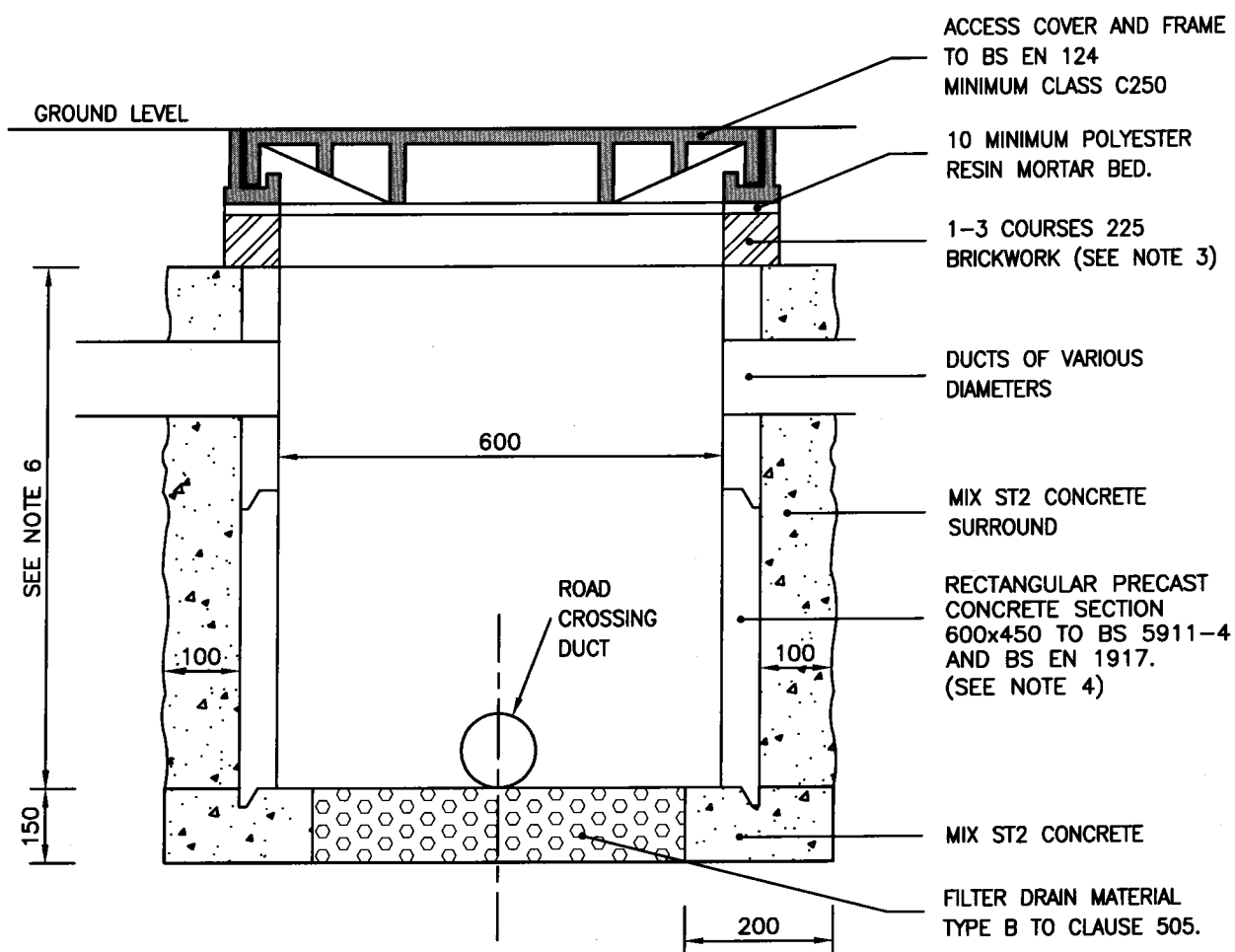
1. ALL DIMENSIONS ARE IN MILLIMETRES.
2. UNDER CARRIAGEWAYS CABLES SHALL HAVE A MINIMUM COVER OF 750 OR 300 BELOW FORMATION WHICHEVER IS THE GREATER DEPTH.
3. WITHIN TRAFFIC ISLANDS MINIMUM COVER SHALL BE NOT LESS THAN 150.
4. THIS DRAWING SHALL BE READ IN CONJUNCTION WITH SPECIFICATION CLAUSE 1421 OF THE SPECIFICATION FOR HIGHWAY WORKS.
5. FOR LOCATION OF CABLES AND DUCTS SEE STREET LIGHTING LAYOUT DRAWINGS.
6. DUCT DIA. GENERALLY 100/150 FOR ROAD CROSSINGS AND 75/100 WITHIN TRAFFIC ISLANDS.
7. WHERE CABLE COVERS ARE SPECIFIED IN APPENDIX 14/4 THE COVER SIZE SHALL BE 150x225 FOR A SINGLE CABLE NOT EXCEEDING 50 DIAMETER AND 225x300 FOR A SINGLE CABLE EXCEEDING 50 DIAMETER OR TWO CABLES NOT EXCEEDING 37 DIAMETER EACH.
8. CABLES SHALL HAVE MINIMUM CLEARANCE OF 500 TO SAFETY POST FOUNDATION.

J.D.K. EKINS, O.B.E., F.R.E.S., F.I.C.E., COUNTY SURVEYOR, THE CASTLE, WINCHESTER.

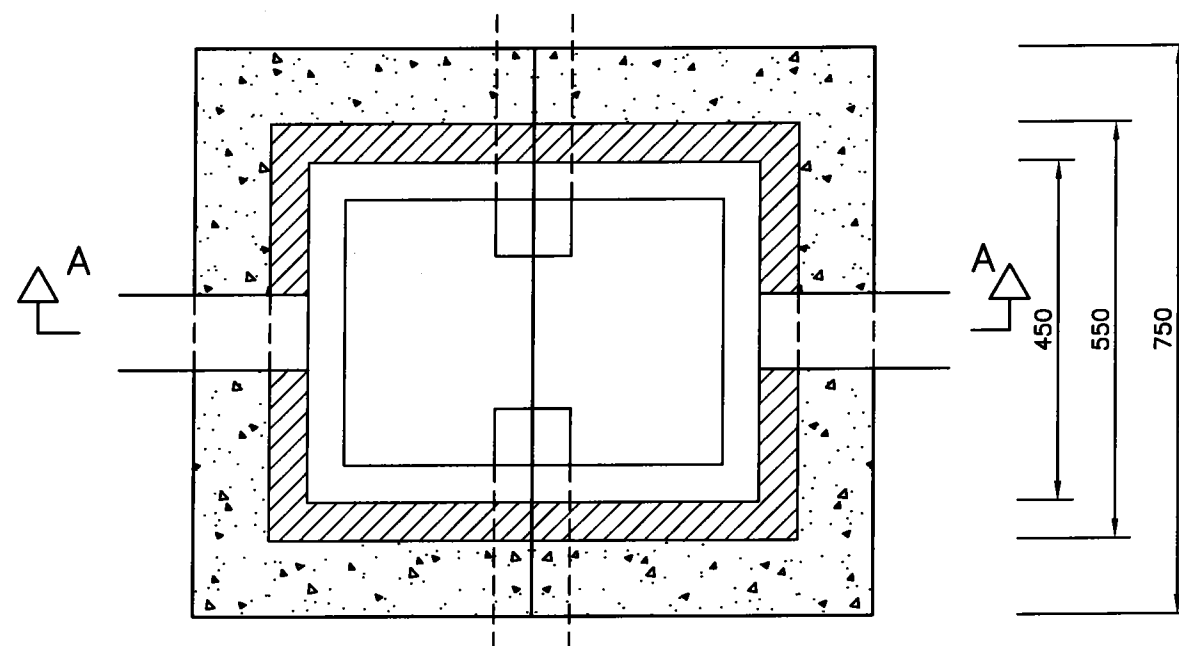
STANDARD DETAILS

UNDERGROUND CABLING FOR PRIVATE CABLE NETWORKS

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		SB	SB
CAD	RAM	APPROVED	DATE
		JAH	MAY 201
		JAH	
DRG No.	HCC9/L/070		REVISION
			A



SECTION A-A



PLAN

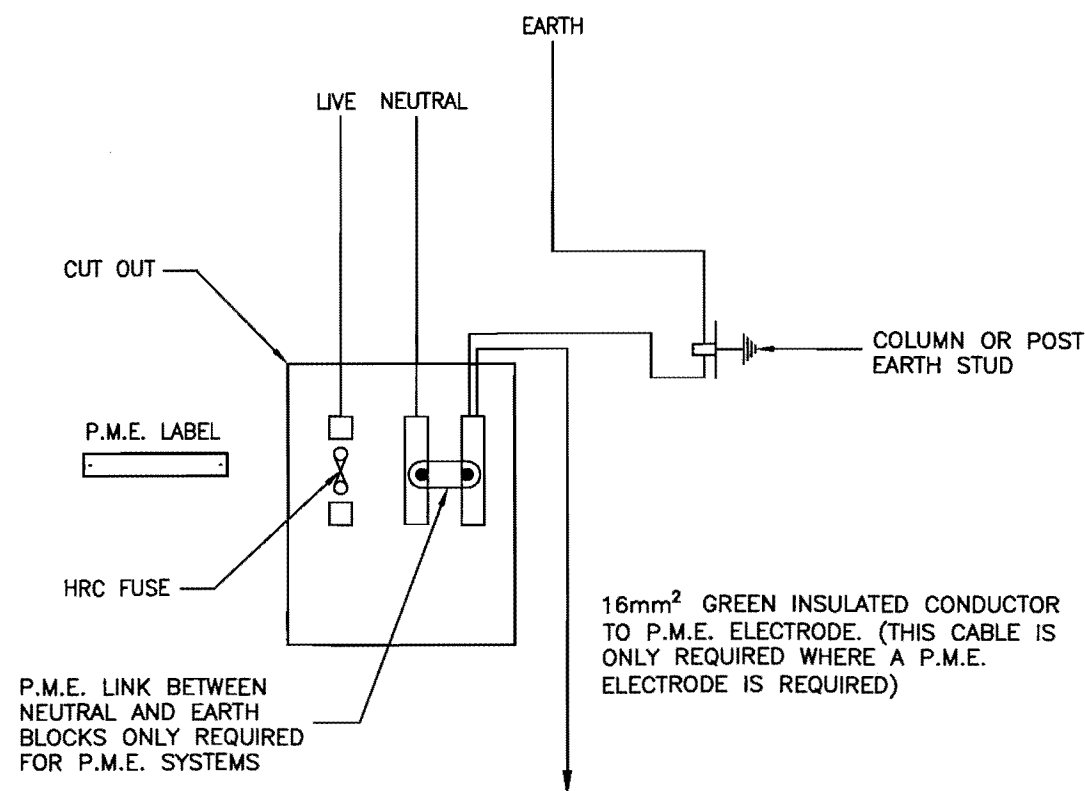
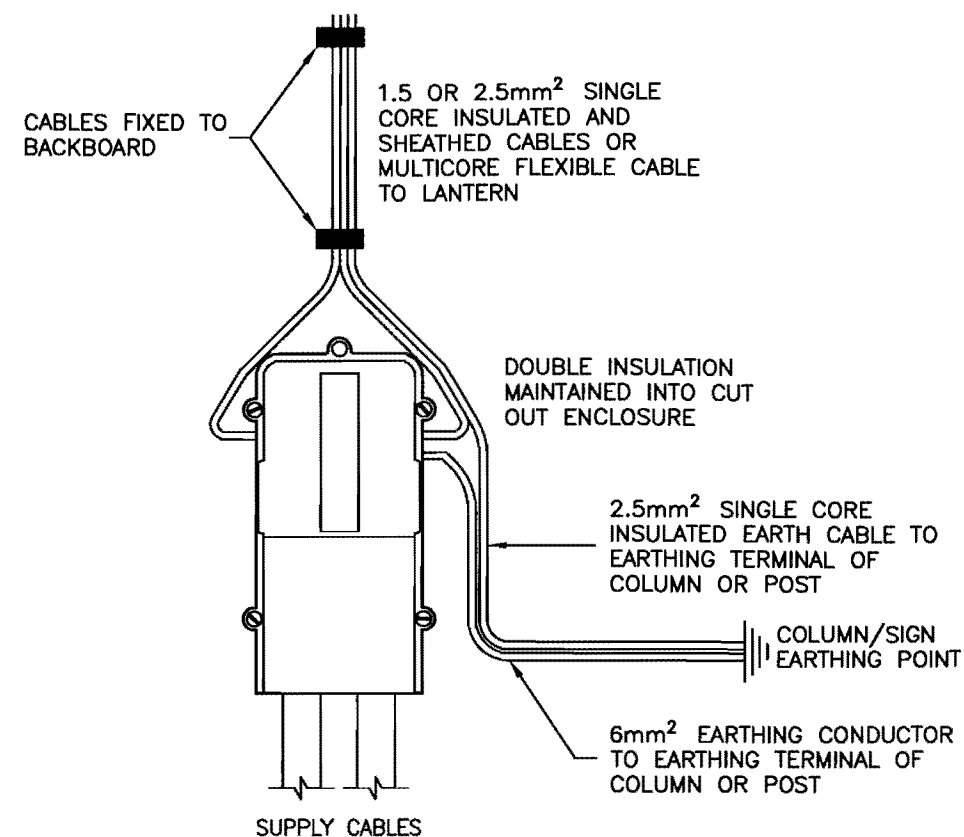
NOTES:

1. ALL DIMENSIONS ARE IN MILLIMETRES.
2. FOR DETAILS OF LOCATIONS OF DRAWPITS, SEE STREET LIGHTING LAYOUT DRAWINGS.
3. BRICKS TO BE TO BS EN 771-1 AND CLAUSE 2406 LAID ON CLASS (i) MORTAR TO CLAUSE 2404 IN ENGLISH BOND.
4. AS AN ALTERNATIVE TO PRECAST CONCRETE CHAMBERS, HIGH DENSITY CLASS B SOLID ENGINEERING BRICKS MAY BE USED TO A WALL THICKNESS OF 225.
5. ALL DUCTS SHALL BE CRUSH PROOF AND COMPLY WITH DD200.
6. DEPTH OF LOWEST DUCT WILL DETERMINE DEPTH OF CHAMBER.

AMENDMENT	DATE	DRAWN	CHKD	APPD
CONSULTANT				
ALISON QUANT BSc MSc MRTP, DIRECTOR OF ENVIRONMENT, THE CASTLE, WINCHESTER.				
SCHEME				
STANDARD DETAILS				
DRAWING TITLE				
STREET LIGHTING DRAWPIT TYPE 2				
HCC CADplot: 02.Jul.2007 at 11:04am				
DRAWN	MT	CHECKED	SB	SCALE A3 N.T.S.
CAD	TRK	APPROVED	JAH	DATE MAY 2007
DRG No.	HCC9/L/075			REVISION

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**GENERAL CUT OUT WIRING SCHEMATIC
FOR COLUMNS AND ILLUMINATED SIGNS**

NOTES:

1. THE CUT OUT SHALL BE MANUFACTURED FROM A SEMI-CRYSTALLINE THERMAL PLASTIC WITH IMPROVED HEAT RESISTANCE.
2. ALL SINGLE CORE WIRING SHALL BE TAPED TOGETHER EVERY METRE RUN.
3. THE WIRING IN THE BASE COMPARTMENT SHALL BE NEATLY CLEATED TO ONE SIDE OF THE BASE BOARD WITH SUFFICIENT TAIL LENGTH TO CONNECT INTO CUT OUT.
4. INSULATED CONNECTOR BLOCKS ARE TO BE PROVIDED IN THE BASE FOR TERMINATION OF THE CABLES BEING LOOPED.
5. ALL APPARATUS SHALL BE SECURELY FIXED AT ALL DESIGNATED POINTS TO A BACK BOARD OR HOUSING BY STAINLESS STEEL SCREWS. ALL EARTH CONNECTIONS SHALL BE BY BOLTED CRIMPED TERMINATIONS.

A	NOTES AMENDED	MAY 10	JH	<i>[Signature]</i>
REV.	AMENDMENT	DATE	DRAWN	CHKD



J.D.X. LEWIS, O.B.E., FRING, FICE, COUNTY SURVEYOR, THE CASTLE, WINCHESTER.

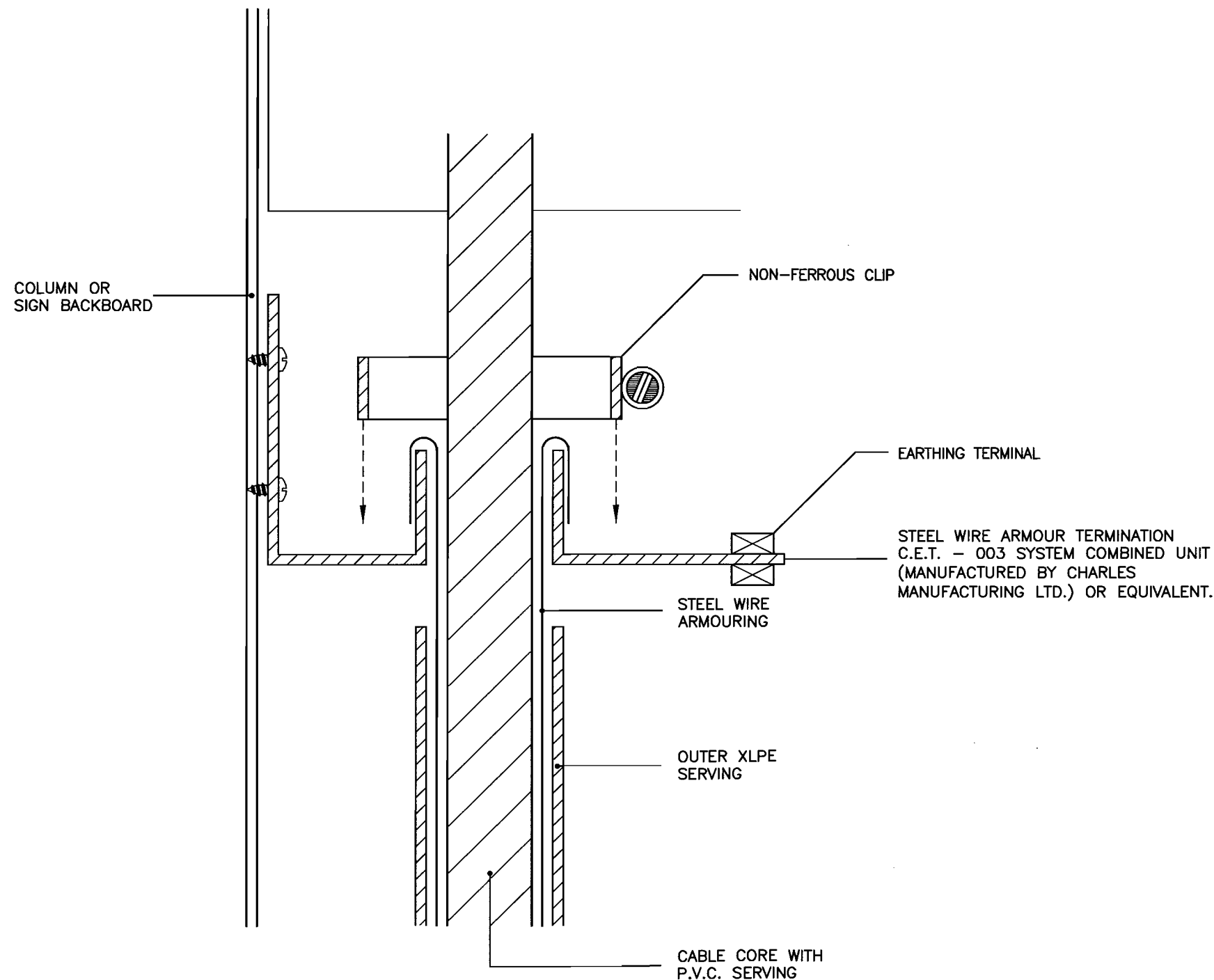
STANDARD DETAILS

DRAWING TITLE
**TYPICAL BASE COMPARTMENT
ARRANGEMENT FOR COLUMNS OR
POSTS WITH SCOTTISH AND
SOUTHERN ENERGY PLC SERVICE**

HCC CADfile:	DRAWN	CHECKED	SCALE
	DT	SB, SB	A3 N.T.S.
CAD	RAM	APPROVED	DATE
		JAH, JAH	MAY 2010
DRG No.	HCC9/L/080	REVISION	A

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NOTES:

1. THE WIRING IN THE BASE COMPARTMENT SHALL BE NEATLY CLEATED TO THE BASE BOARD WITH SUFFICIENT TAIL LENGTH TO CONNECT INTO CUT OUT.
2. ALL APPARATUS SHALL BE SECURELY FIXED TO THE BACK BOARD OR HOUSING, BY STAINLESS STEEL SCREWS. ALL EARTH CONNECTIONS SHALL BE BY BOLTED CRIMPED TERMINATIONS.

A	CHANGED TO XLPE	MAY 10	JH	<i>[Signature]</i>	<i>[Signature]</i>
REV.	AMENDMENT	DATE	DRAWN	CHECKED	APPROVED



J.D.KINGS, O.B.E., F.R.E.S., F.C.E., COUNTY SURVEYOR, THE CASTLE, WINCHESTER.

STANDARD DETAILS

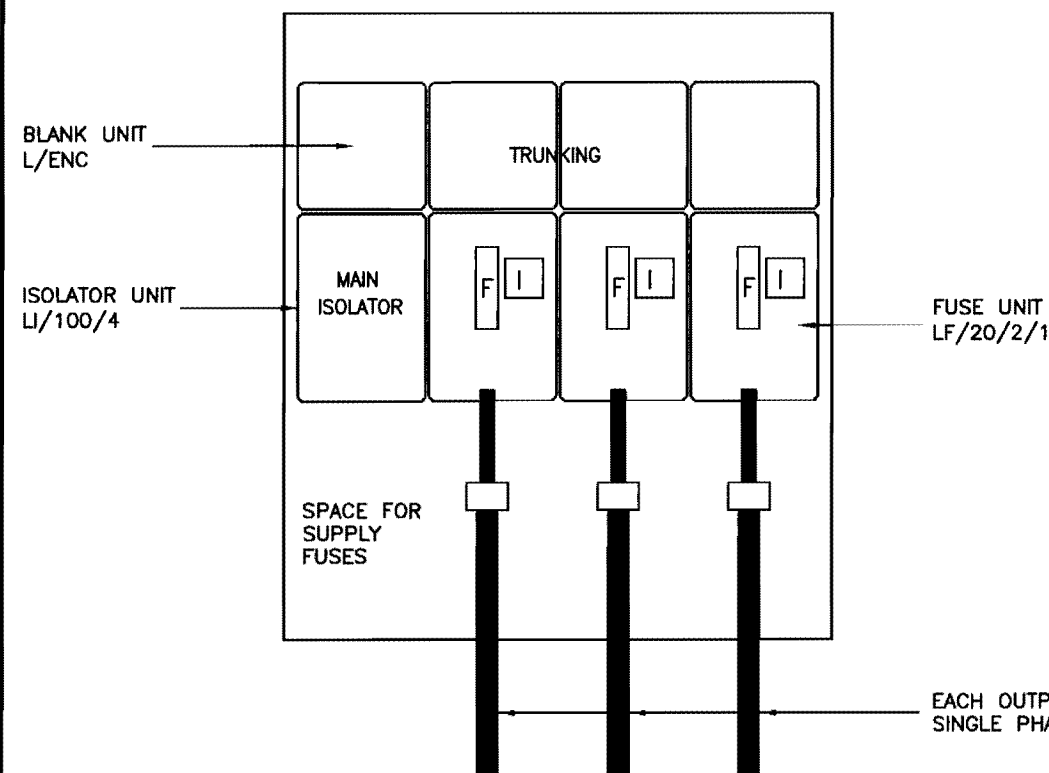
DRAWING TITLE

STEEL WIRE ARMOUR CABLE METHOD OF TERMINATION FOR PRIVATE NETWORKS

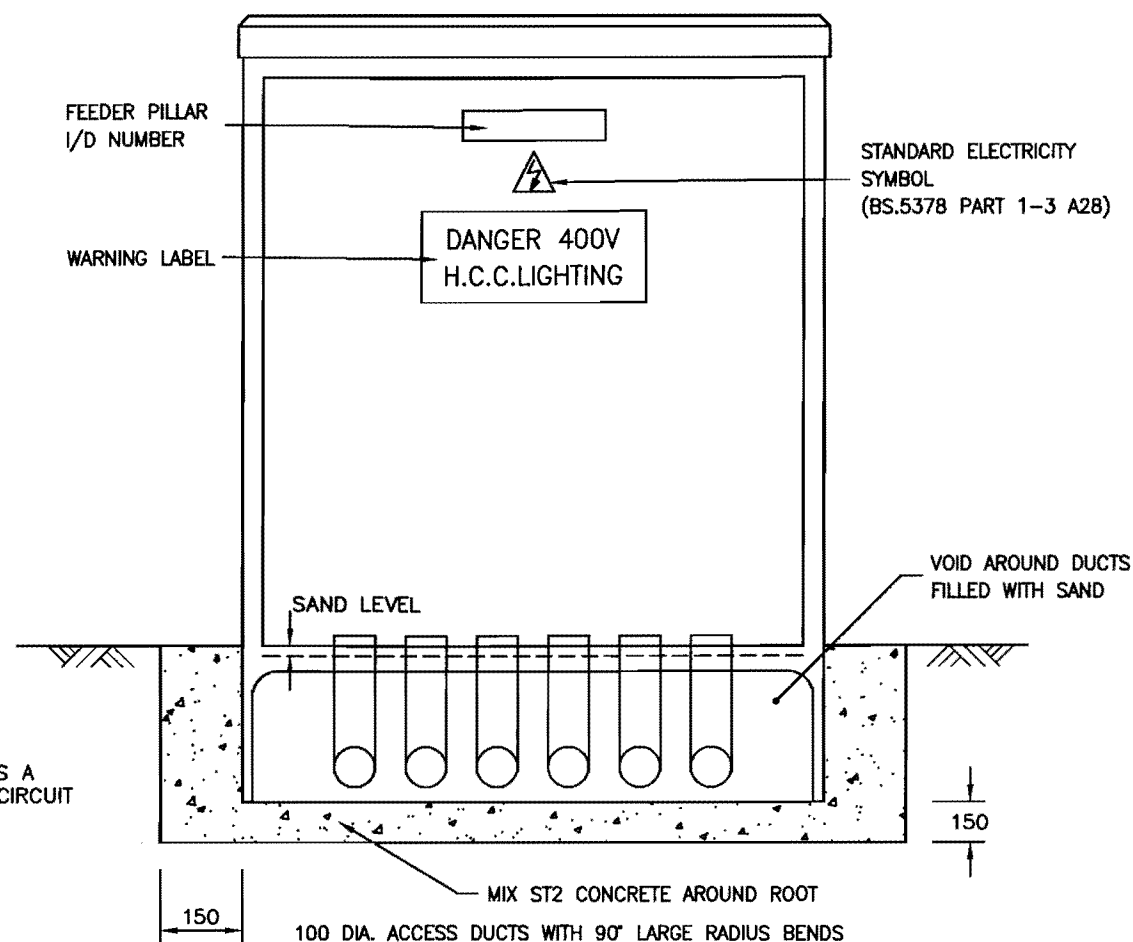
HCC CODE:	DT	CHECKED	SB	SB	SCALE	A3	N.T.S.
DRAWN	RAM	APPROVED	JAH	JAH	DATE	MAY 2010	
DRG No.	HCC9/L/085	REVISION	A				

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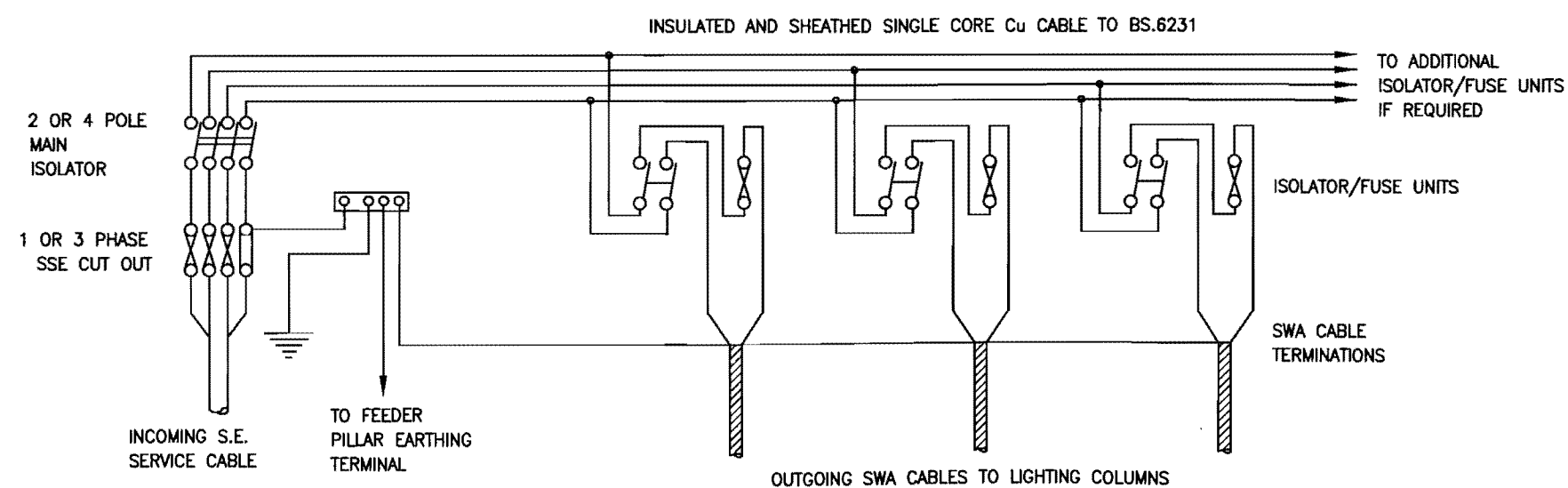
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TYPICAL FRONT VIEW OF FEEDER PILLAR



FEEDER PILLAR FOUNDATION DETAIL



TYPICAL WIRING LAYOUT

NOTES:

1. ALL DIMENSIONS ARE IN MILLIMETRES.
2. FOR LOCATION OF FEEDER PILLARS, SEE STREET LIGHTING LAYOUT DRAWINGS.
3. A MINIMUM OF 1m² OF HARD STANDING SHALL BE PROVIDED AT GROUND LEVEL IMMEDIATELY IN FRONT OF THE PILLAR DOOR.

A	FRONT VIEW & WIRING LAYOUT AMENDED	MAY 10	JH	APPD
REV.	AMENDMENT	DATE	DRAWN	CHKD



STANDARD DETAILS

DRAWING TITLE

GENERAL FEEDER PILLAR DETAILS

HCC CAD File:	DRAWN	DT	CHECKED	SB, SB	SCALE	A3	N.T.S.
	CAD	RAM	APPROVED	JAH, JAH	DATE	MAY 2010	
	DRG No.	HCC9/L/090			REVISION	A	

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2
B
1
1
8
3

12 mm

50 mm

UNIT MAINTENANCE
NUMBER

FREEPHONE DETAILS

TO REPORT A FAULT
TEL: 0845 6035633

6 mm

9 mm

 Southern Electric Contracting

90 mm

NOTES:

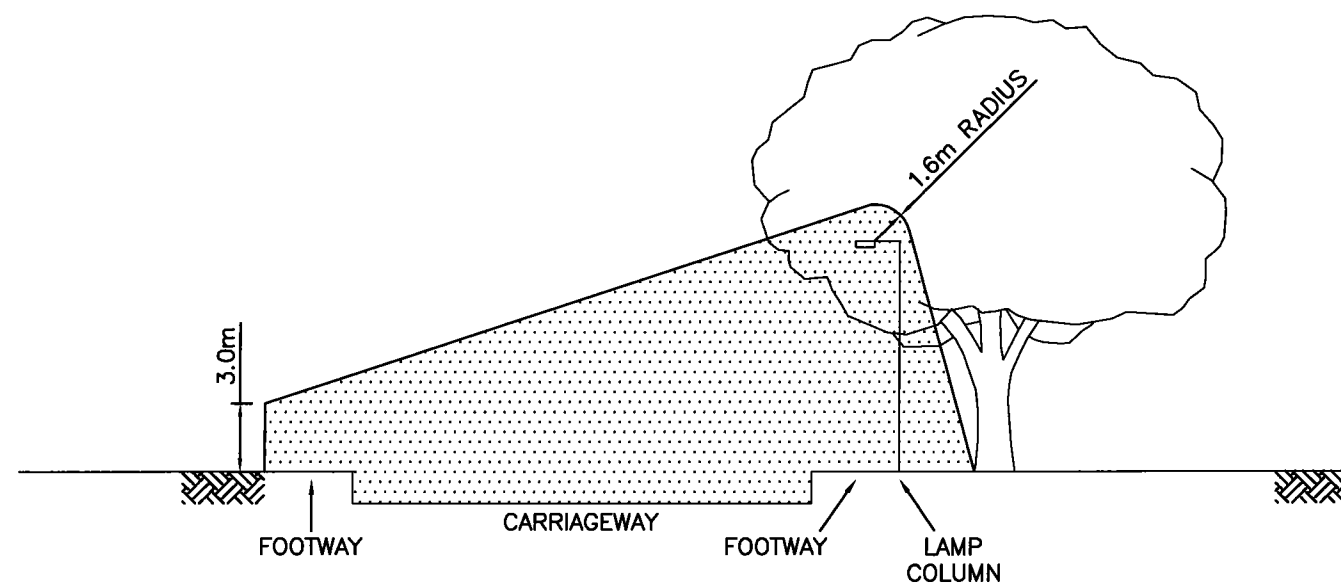
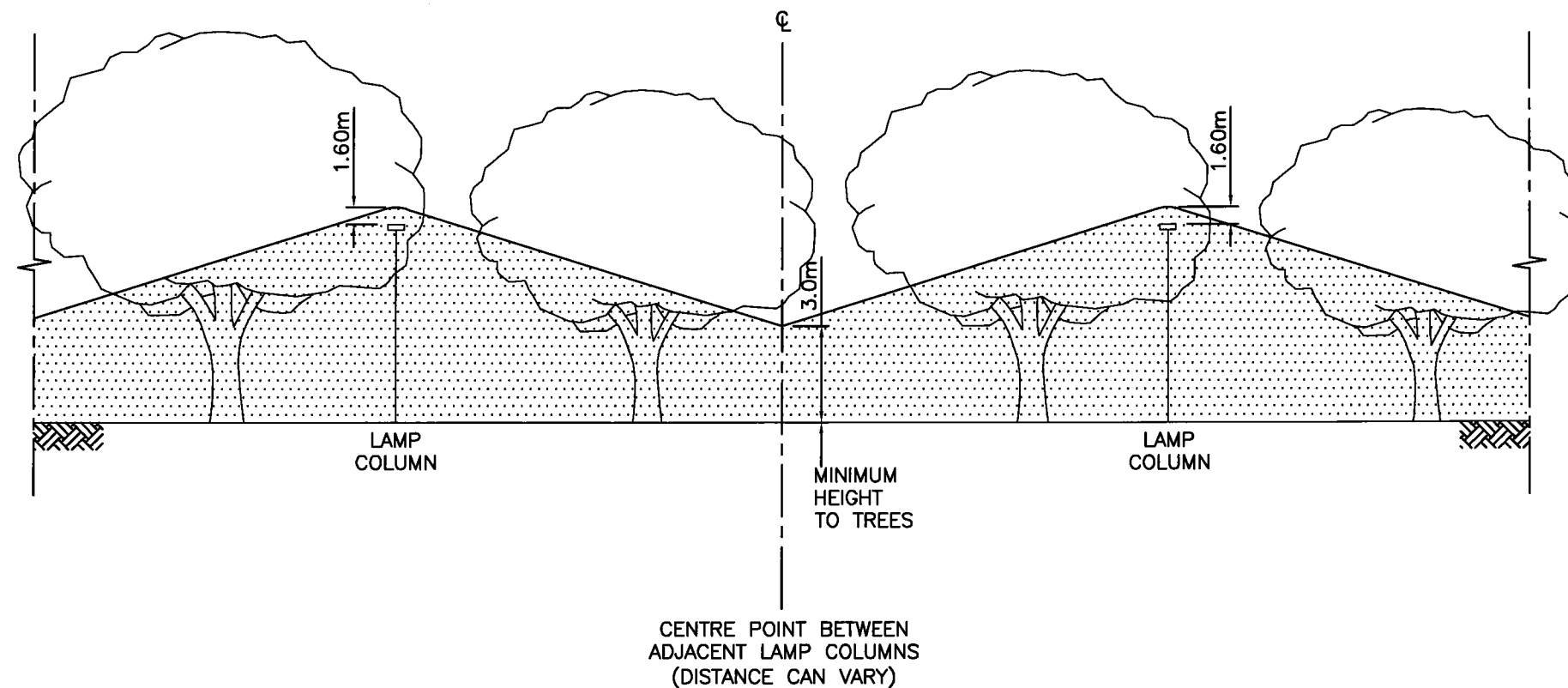
1. ALL TEXT SHALL BE HELVITICA MEDIUM FONT STYLE.
2. MULTIPLE NUMBERS SHALL RUN DOWN THE LABEL AS SHOWN.
3. FOR COLUMNS, BLACK WRITING ON WHITE BACKING.
4. FOR SIGNS AND BOLLARDS, WHITE WRITING ON BLACK BACKING.

A	TO PFI SPECIFICATION	MAY 10	JH	
REV.	AMENDMENT	DATE	DRAWN/CHKD	APPD

STANDARD DETAILS

DRAWING TITLE
NUMBERING SPECIFICATION FOR
ILLUMINATED FURNITURE MOUNTED
IN FOOTWAYS

HCC CADfile:	CHECKED	SCALE
DRAWN DT	SB, SB	A3 N.T.S.
CAD	APPROVED	DATE
RAM	JAH, JAH	MAY 2010
DRG No.	HCC9/L/160	REVISION
		A

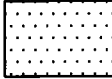


N.B. TREES AND SHRUBS SHOULD BE CLEARED TO AT LEAST 1.6m ABOVE THE COLUMN AND BACK BEHIND THE LINE OF THE COLUMNS

NOTES:

1. REMOVE OR SHORTEN BRANCHES INTERFERING WITH STREET LIGHTING TO PERMIT UN-OBSTRUCTED ILLUMINATION OF THE CARRIAGEWAY AND FOOTWAY AND PREVENT ANY OBSTRUCTION OF LIGHTING COLUMNS. LAMP TO BE VISIBLE FROM CENTRE POINT BETWEEN COLUMNS. CLEARANCE TO BE SUFFICIENT TO BE EFFECTIVE FOR AT LEAST 12 MONTHS.
2. WORK TO CONFIRM TO BS 3998 : 1989. ALL ARISING TO BE REMOVED FROM SITE.

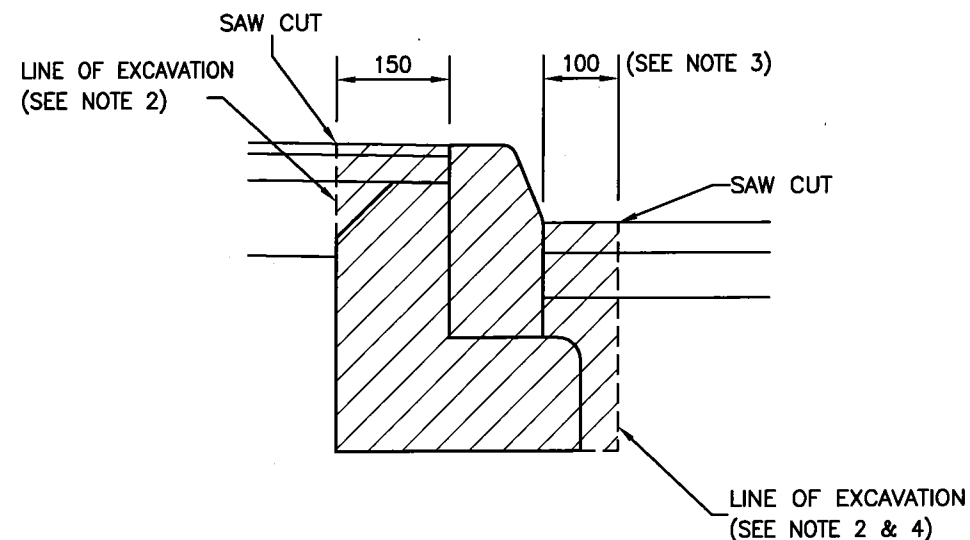
LEGEND

 AREA TO BE KEPT CLEAR OF FOLIAGE OR BRANCHES BEHIND THE LINE COLUMNS.

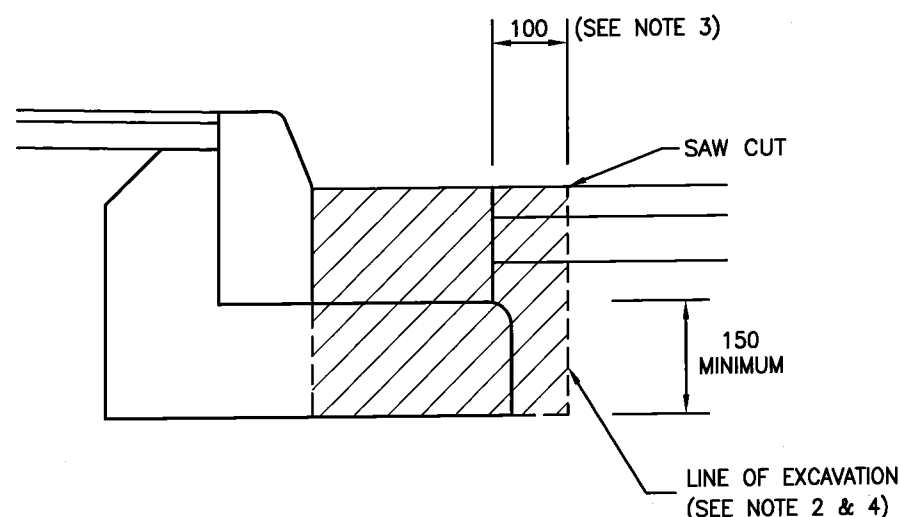
AMENDMENT	DATE	DRAWN	CHKD	APPD
CONSULTANT				
 Hampshire County Council 				
ALISON QUANT BSc MSc MRTP, DIRECTOR OF ENVIRONMENT, THE CASTLE, WINCHESTER.				
SCHEME				
STANDARD DETAILS				
DRAWING TITLE				
AREAS TO BE KEPT CLEAR OF TREES AND SRUBS				
HCC CADplot:				
DRAWN	MT	CHECKED	PS	SCALE  A3 N.T.S.
CAD	RDG	APPROVED	SB	DATE JAN 09
DRG No.	HCC9/L/170			REVISION

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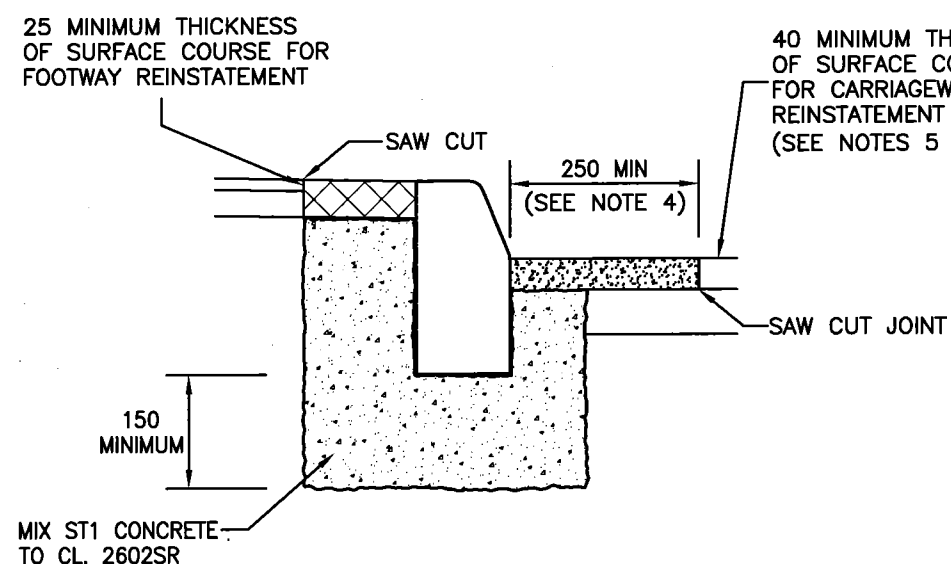
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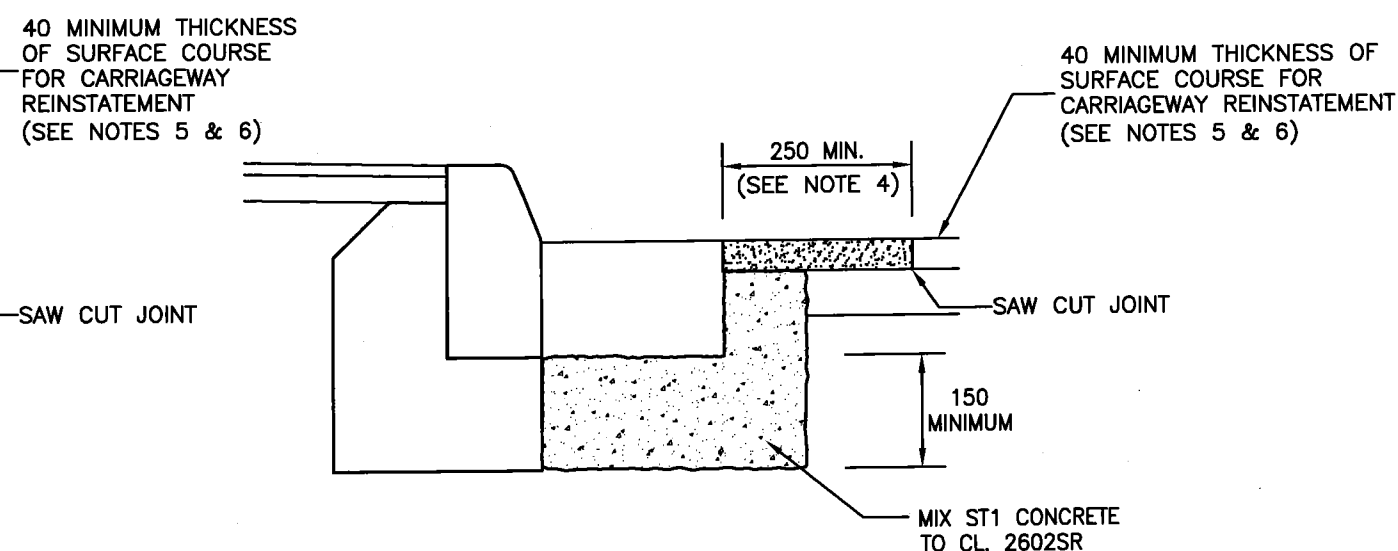
**TAKE UP EXISTING KERB,
BED AND BACKING**



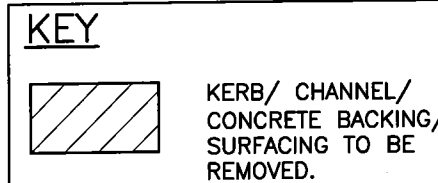
**TAKE UP EXISTING
CHANNEL AND BED**



**REPLACEMENT KERB LAID
ON NEW BASE**



**REPLACEMENT CHANNEL
LAID ON NEW BASE**



NOTES:

- ALL DIMENSIONS ARE IN MILLIMETRES.
- EXISTING CARRIAGEWAY AND/OR FOOTWAY PAVEMENT CONSTRUCTION SHALL BE CUT VERTICAL TO CLEAN LINE AND FACE.
- THE BREAK OUT IN FRONT OF THE KERB OR CHANNEL MAY BE OMITTED WHERE CARRIAGEWAY RESURFACING IS TO BE CARRIED OUT AT THE SAME TIME AS KERB REPLACEMENT.
- WHERE EXISTING KERB BED EXTENDS MORE THAN 100 INTO THE CARRIAGEWAY, THE BREAK OUT SHALL BE EXTENDED AS REQUIRED TO ENSURE ALL OF KERB BED IS REMOVED. REINSTATEMENT OF SURFACE COURSE TO BE PROPORTIONALLY INCREASED. WHERE THIS ENCROACHES INTO THE WHEEL TRACK IT SHALL BE EXTENDED FURTHER TO AVOID THE AREA.
- REINSTATEMENT MATERIAL SHALL BE HRA 15/10 SURF 40/60 TO BS EN 13108-4. PRE COATED CHIPPINGS TO BE USED WHERE CHANNEL BLOCKS ARE REPLACED SHALL BE MINIMUM 60 PSV OR AS STATED IN APPENDIX 7/2.
- TREATMENT OF LAYERS AND VERTICAL SURFACES SHALL BE IN ACCORDANCE WITH CL 903.

A	NOTES 4 TO 6 ADDED.	DEC. 08	MT	25	13
AMENDMENT		DATE	DRAWN	CHKD	APPD
CONSULTANT					
ALISON QUANT BSc MSc MRITPL DIRECTOR OF ENVIRONMENT, THE CASTLE, WINCHESTER.					
SCHEME					
STANDARD DETAILS					
DRAWING TITLE					
KERB REPLACEMENT (ON NEW BASE)					
HCC CADplot: 12.Feb.2009 at 4:56pm					
DRAWN	MT	CHECKED	MT, MT	SCALE	A3 N.T.S.
CAD	TRK	APPROVED	TPW, TPW	DATE	MAY 2007
DRG No.	HCC9/M/005				REVISION
				A	

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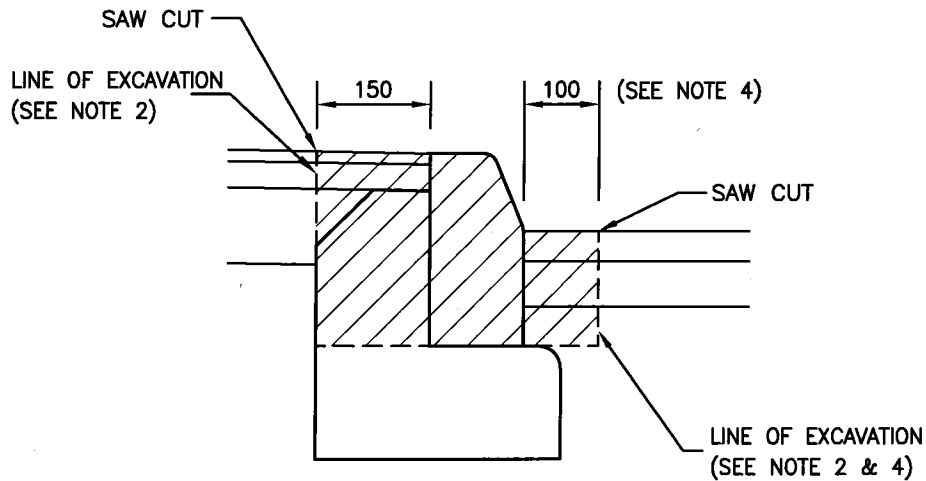
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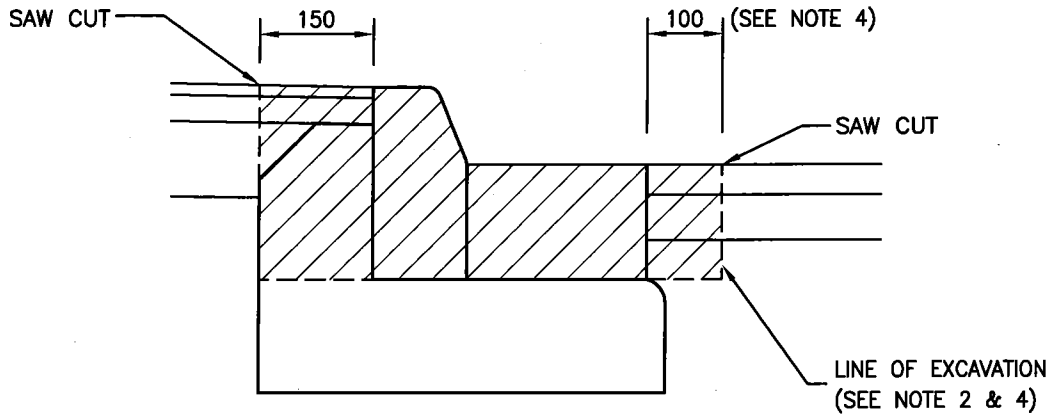
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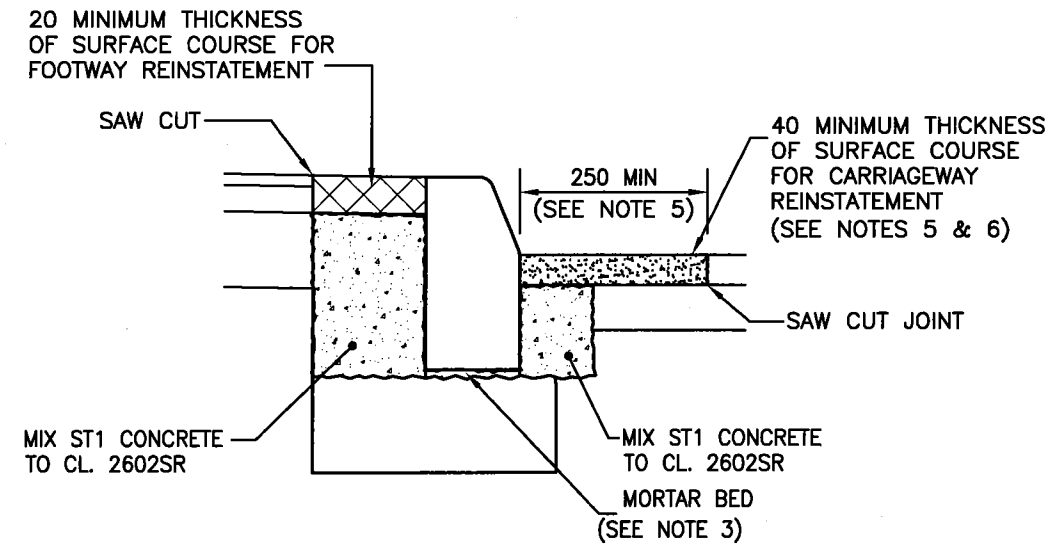
KERB/ CHANNEL/
CONCRETE BACKING/
SURFACING TO BE
REMOVED.



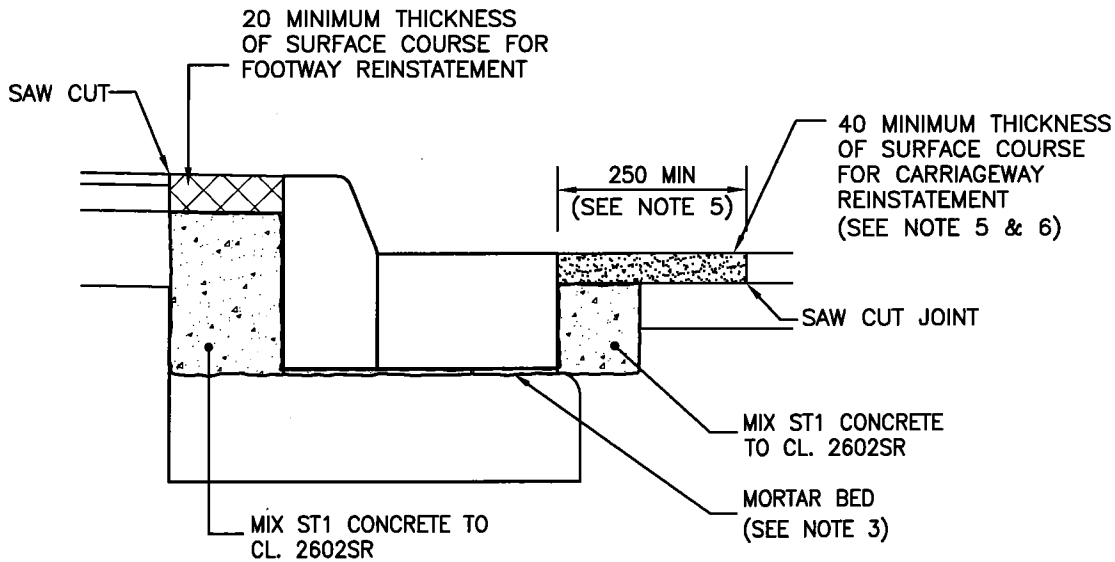
TAKE UP EXISTING
KERB AND BACKING



TAKE UP EXISTING
BACKING AND CHANNEL



REPLACEMENT KERB LAID
ON EXISTING BASE



REPLACEMENT KERB AND CHANNEL
LAID ON EXISTING BASE

NOTES:

1. ALL DIMENSIONS ARE IN MILLIMETRES.
2. EXISTING CARRIAGEWAY AND/OR FOOTWAY PAVEMENT CONSTRUCTION SHALL BE CUT VERTICAL TO CLEAN LINE AND FACE.
3. EXISTING BED TO BE CUT BACK TO PROVIDE FACILITY FOR 10 MINIMUM THICKNESS MORTAR BED. KERB AND/OR CHANNEL SHALL BE BEDDED ON CLASS (i) MORTAR TO CLAUSE 2404 10 TO 40 THICK. WHERE KERB AND/OR CHANNEL IS TO BE RAISED IN LEVEL SUCH THAT BED THICKNESS IS GREATER THAN 40, CONCRETE TO CLAUSE 2602SR SHALL BE USED AS NEW BED.
4. THE BREAK OUT IN FRONT OF THE KERB OR CHANNEL MAY BE OMITTED WHERE CARRIAGEWAY RESURFACING IS TO BE CARRIED OUT AT THE SAME TIME AS KERB REPLACEMENT.
5. REINSTATEMENT MATERIAL SHALL BE HRA 15/10 SURF 40/60 TO BS EN 13108-4. PRE COATED CHIPPINGS TO BE USED WHERE CHANNEL BLOCKS ARE REPLACED SHALL BE MINIMUM 60 PSV OR AS STATED IN APPENDIX 7/2. WHERE REINSTATEMENT ENCROACHES INTO THE WHEEL TRACKS IT SHALL BE EXTENDED FURTHER TO AVOID THE AREA.
6. TREATMENT OF LAYERS AND VERTICAL SURFACES SHALL BE IN ACCORDANCE WITH CL 903.

A	NOTES 5 & 6 ADDED	DEC. 08	MT	mt	B
	AMENDMENT	DATE	DRAWN	CHKD	APPD

CONSULTANT


ALISON QUANT BSc MSc MRTP, DIRECTOR OF ENVIRONMENT, THE CASTLE, WINCHESTER.

SCHEME

STANDARD DETAILS

DRAWING TITLE

KERB REPLACEMENT
(ON EXISTING BASE)

HCC CADplot: 13.Feb.2009 at 10:29am

DRAWN	MT	CHECKED	MT, MT	SCALE	A3	N.T.S.
CAD	TRK	APPROVED	TPW, TPW	DATE	MAY 2007	
DRG No.	HCC9/M/010				REVISION	A

REINSTATE VERGE IN TOPSOIL TYPE 5A TO SAME PROFILE AS ADJACENT VERGE. SEED AS INSTRUCTED.

COMPACTED SUBBASE TO CLAUSE 891AR OR 893AR.

RAISED VERGE REINSTATEMENT DETAIL

STRESS ABSORBING MEMBRANE (SEE NOTE 7).

SURFACE COURSE (SEE NOTE 3)

CUT BACK (SEE NOTES 4 AND 5).

SAW CUT JOINT (SEE NOTE 5).

DENSE ASPHALT CONCRETE BINDER COURSE TO CLAUSE 906 (SEE NOTE 3).

DENSE ASPHALT CONCRETE BASE TO CLAUSE 906. (SEE NOTES 3 & 6).

SUBBASE TO CLAUSE 891AR OR 893AR (SEE NOTES 6 & 8).

WIDTH OF HAUNCH (SEE NOTE 6)

CARRIAGEWAY

STRESS ABSORBING MEMBRANE (SEE NOTE 7).

SURFACE COURSE (SEE NOTE 3)

CUT BACK (SEE NOTES 4 AND 5).

SAW CUT (SEE NOTE 5).

DENSE ASPHALT CONCRETE BINDER COURSE TO CLAUSE 906 (SEE NOTE 3).

DENSE ASPHALT CONCRETE BASE TO CLAUSE 906. (SEE NOTES 3 & 6).

SUBBASE TO CLAUSE 891AR OR 893AR (SEE NOTES 6 & 8).

WIDTH OF HAUNCH (SEE NOTE 6)

FLUSH VERGE REINSTATEMENT DETAIL

REINSTATE FLUSH VERGE IN TOPSOIL TYPE 5A TO SAME PROFILE AS ADJACENT VERGE. SEED AS INSTRUCTED.

COMPACTED SUBBASE TO CLAUSE 891AR OR 893AR.

25 UPSTAND.

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NOTES:

1. ALL DIMENSIONS ARE IN MILLIMETRES.
2. CROSSFALL OF HAUNCH REPAIR SHALL MATCH CROSSFALL OF EXISTING CARRIAGEWAY.
3. DETAILS OF PAVEMENT COURSE MATERIALS, BINDER PENETRATION AND THICKNESS SHALL BE AS SCHEDULED IN APPENDIX 7/1 OR 7/2 AS APPROPRIATE.
4. WIDTH OF CUTBACK SHALL BE AS INDICATED ON DRAWINGS OR IN APPENDIX 7/1 OR 7/2 AS APPROPRIATE.
5. TREATMENT OF BITUMINOUS LAYERS AND VERTICAL SURFACES SHALL BE IN ACCORDANCE WITH CL 903.
6. WHERE WIDTH OF HAUNCH IS 1000 OR LESS SUBBASE AND BASE LAYERS SHALL BE CONSTRUCTED IN WET LEAN CONCRETE 2 C8/10 TO CLAUSE 1030. HAUNCH WIDTH MAY BE REDUCED TO 500 AND REINSTATED AS SHOWN OPPOSITE IF, SUBJECT TO THE APPROVAL OF THE OVERSEEING ORGANISATION, A MAV 01 EXCAVATOR MOUNTED PLATE COMPACTOR, BY THE RF SYSTEMS OR EQUIVALENT, OPERATED ON THE LOWER FREQUENCY, IS USED TO COMPACT THE SUBBASE AND BASE.
7. GLASS FIBRE COMPOSITE GRID REINFORCEMENT SHALL BE INSTALLED BENEATH THE BINDER COURSE LAYER. THE GRID SHALL HAVE A MINIMUM TENSILE STRENGTH IN BOTH DIRECTIONS OF 100kN/m². INSTALLATION IN ACCORDANCE WITH MANUFACTURERS INSTRUCTIONS.
8. WHERE WET LEAN CONCRETE 2 IS USED CRACKS SHALL BE INDUCED AT 3m CENTRES.

C	NOTES 5 & 7 AND MATERIAL NOTES AMENDED	DEC. 11	MT	WBC	CM
B	GENERAL UPDATE	DEC. 08	MT	MT	PS
A	BINDER COURSE, BASE AND TACK COAT NOTES AMENDED	JAN. 08	MT	MT	TPW
	AMENDMENT	DATE	DRAWN	CHKD	APPD

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SCHEME

STANDARD DETAILS

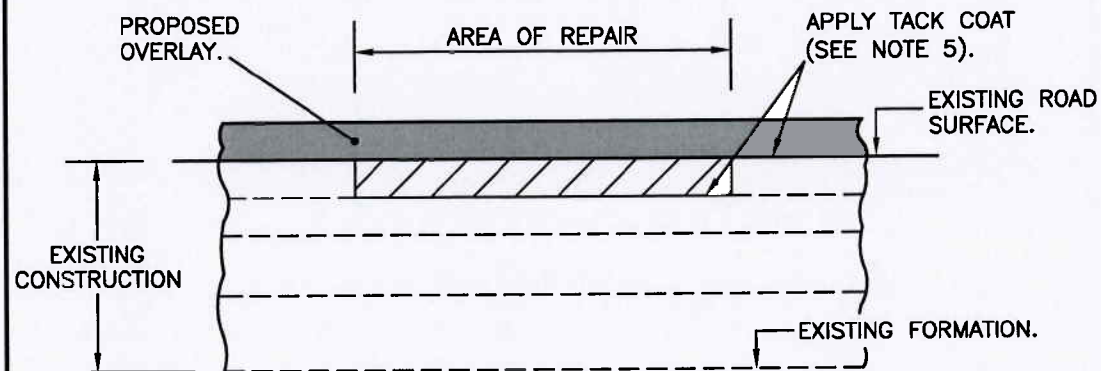
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CARRIAGEWAY HAUNCH REPAIR DETAIL

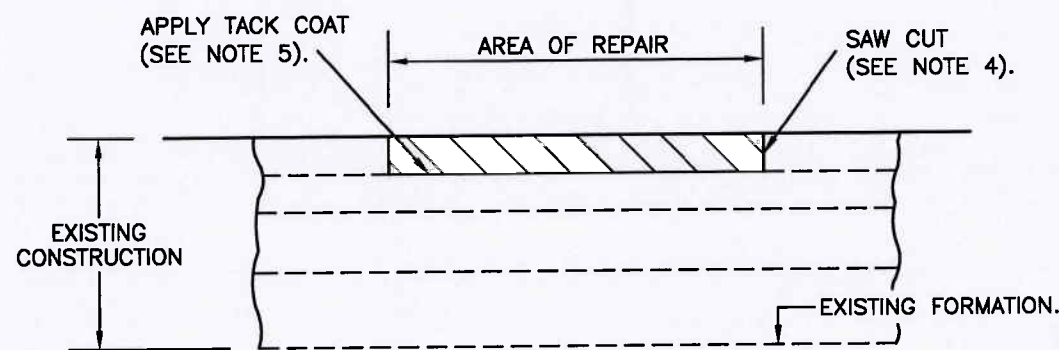
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CAD	TRK	APPROVED	TPW	TPW	DATE	MAY 2007	
DRG No.	HCC9/M/020					REVISION	C

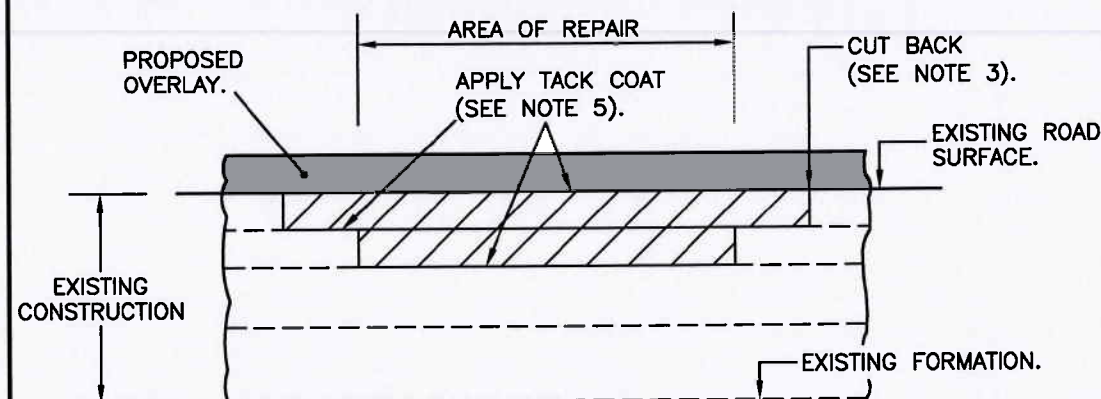
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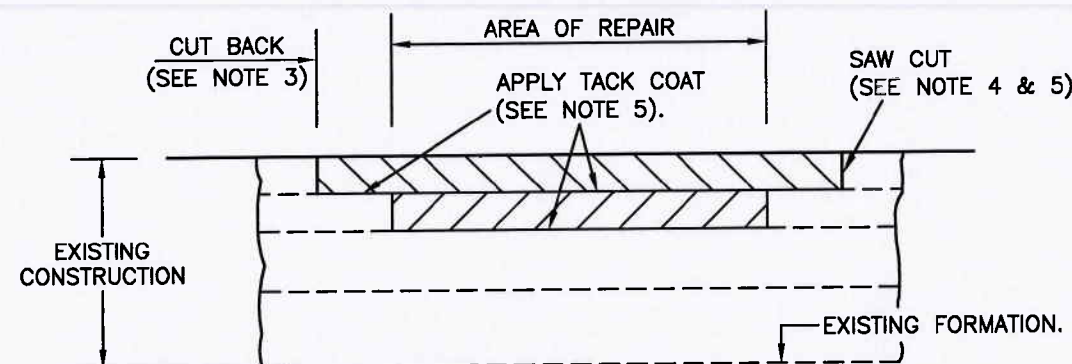
CARRIAGEWAY REPAIR TYPE A1



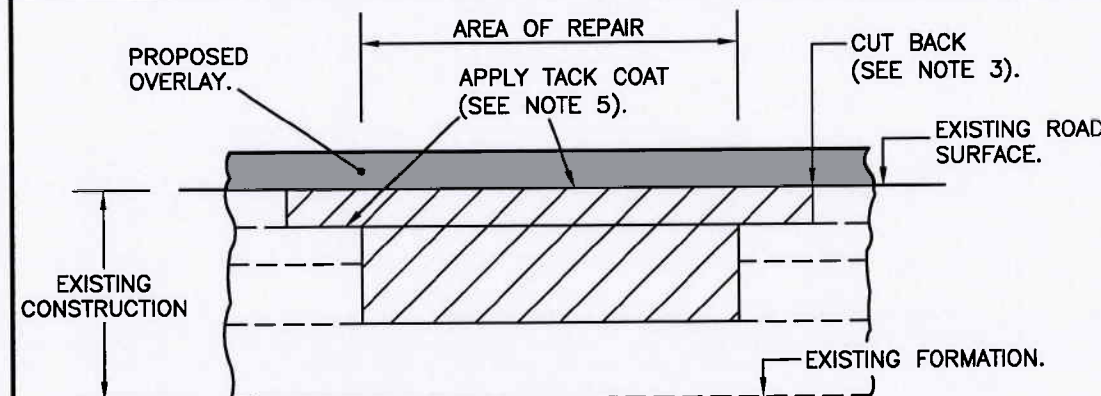
CARRIAGEWAY REPAIR TYPE B1



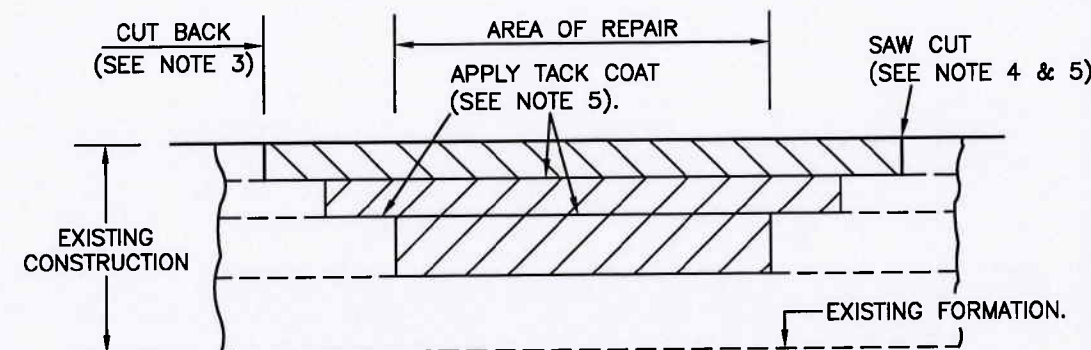
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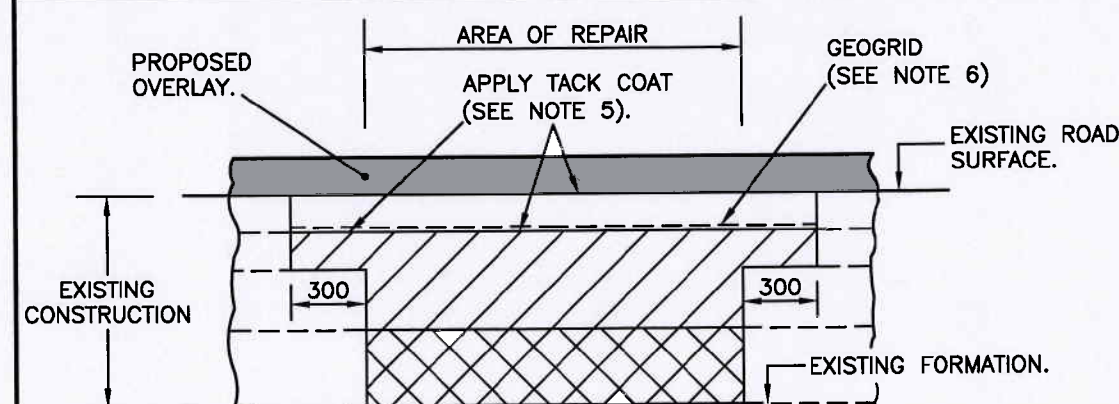
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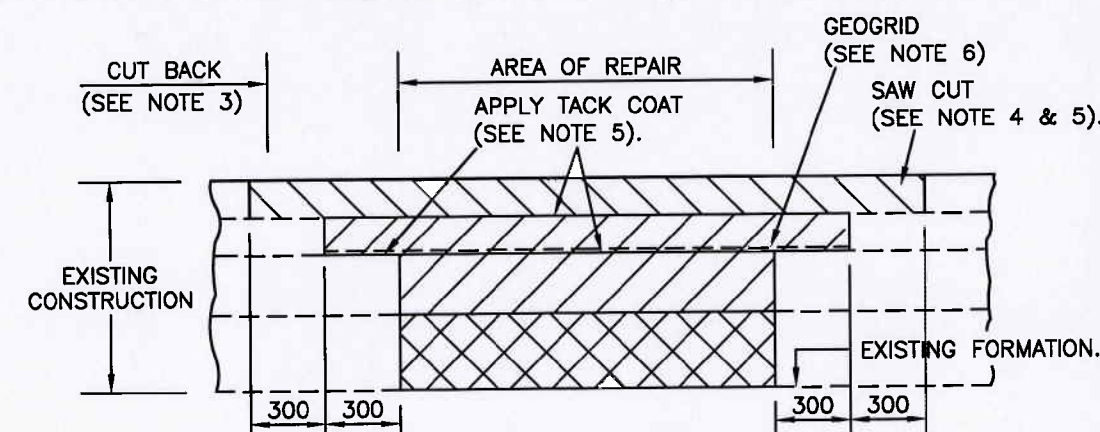
CARRIAGEWAY REPAIR TYPE A3



CARRIAGEWAY REPAIR TYPE B3



CARRIAGEWAY REPAIR TYPE A4



CARRIAGEWAY REPAIR TYPE B4

NOTES:

- ALL DIMENSIONS ARE IN MILLIMETRES.
- LEGEND.**
 - PROPOSED OVERLAY.
 - SURFACE COURSE MATERIAL AS DETAILED IN APPENDIX 7/1.
 - BINDER COURSE MATERIAL AS DETAILED IN APPENDIX 7/1.
 - SUBBASE TO CLAUSE 948SR, 891AR OR 893AR AS DETAILED IN APPENDIX 7/1.
- THE WIDTH OF CUT BACK SHALL BE AS SPECIFIED IN APPENDIX 7/2.
- SAW CUT AROUND THE AREA TO BE RECONSTRUCTED TO AT LEAST THE DEPTH OF SURFACE COURSE LAYER.
- TREATMENT OF LAYERS AND VERTICAL SURFACES SHALL BE IN ACCORDANCE WITH CL 903.
- UNLESS OTHERWISE STATED IN APPENDIX 7/2 REPAIR TYPES A4 AND B4 SHALL HAVE GLASS FIBRE STRESS ABSORBING MEMBRANE (GEOGRID) INSTALLED BENEATH THE BINDER LAYER SPANNING THE EDGE OF THE REPAIR BY 300 EITHER SIDE. THE COMPOSITE GEOGRID SHALL HAVE A MINIMUM TENSILE STRENGTH IN BOTH DIRECTIONS OF 100kN/m. INSTALLATION IN ACCORDANCE WITH MANUFACTURERS INSTRUCTIONS.

C	SUBBASE TYPES & NOTE 6 AMENDED	DEC. 11	MT	MT	PS
B	NOTE 3, 5 & 6 AND STEP DETAILS AMENDED	DEC. 08	MT	MT	PS
A	TACK COAT NOTE AMENDED	JAN. 08	MT	MT	TWP
AMENDMENT		DATE	DRAWN	CHKD	APPD

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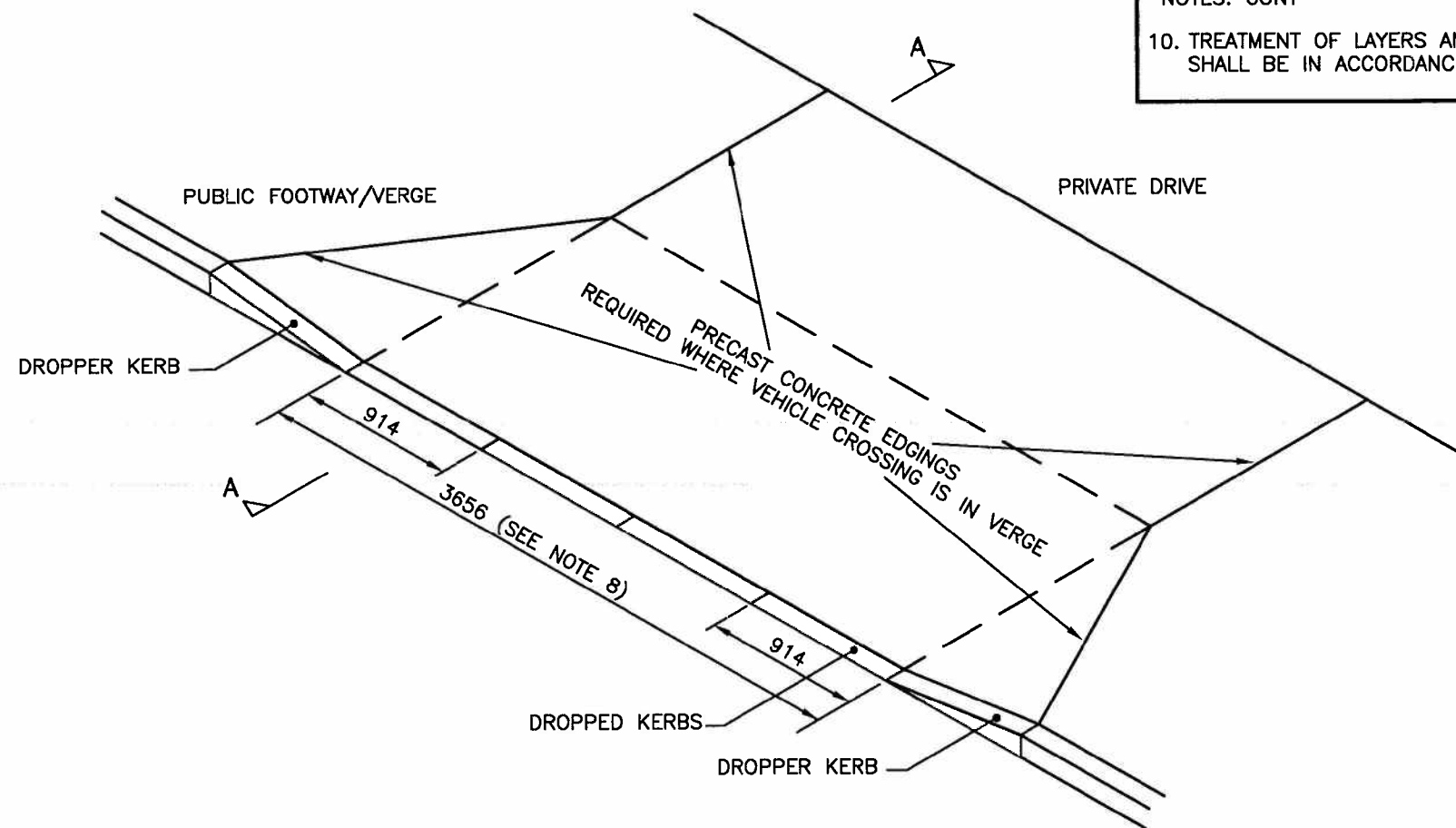
SCHEME

STANDARD DETAILS

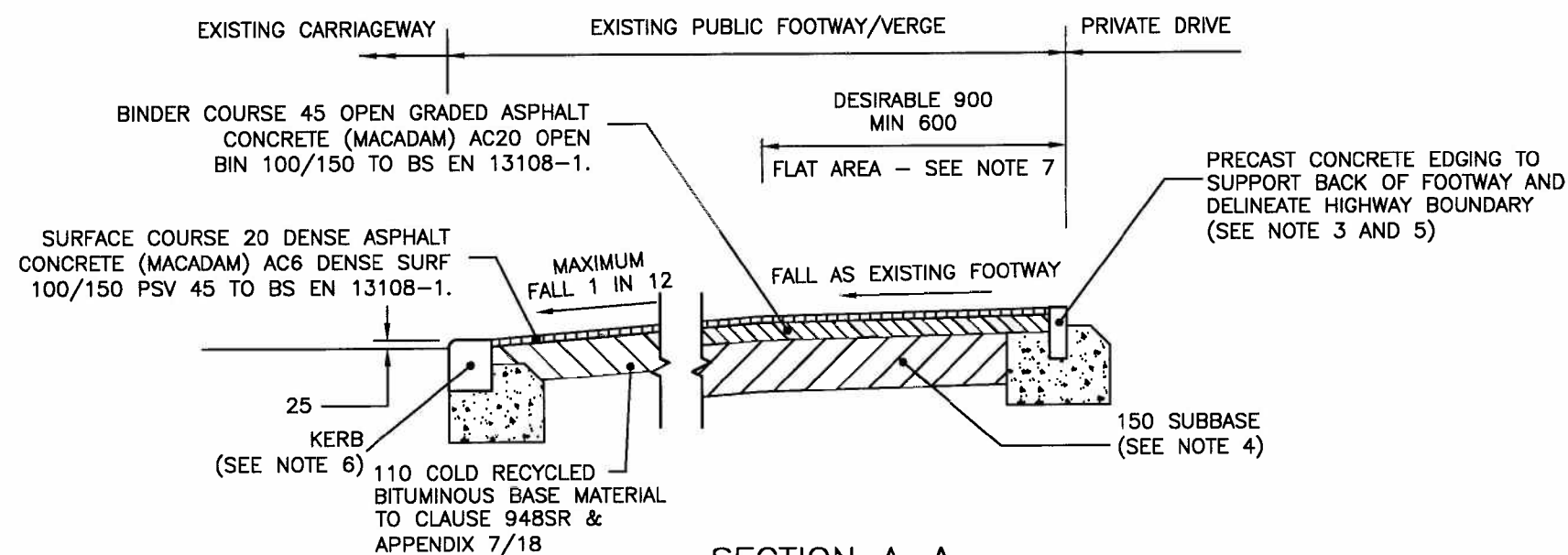
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CARRIAGEWAY REPAIR DETAILS

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DRAWN	MT	MT	MT	A3	
CAD	TRK	TPW	TPW	DATE	MAY 2007
DRG No.	HCC9/M/025	REVISION	C		



PLAN



SECTION A-A
FOOTWAY TYPE 1A OR 1B – FLEXIBLE
CONSTRUCTION
(SHOWING BOTH OPTIONS)

NOTES: CONT

10. TREATMENT OF LAYERS AND VERTICAL JOINTS SHALL BE IN ACCORDANCE WITH CL 903.

NOTES:

- ALL DIMENSIONS ARE IN MILLIMETRES.
- SEE ALSO APPENDIX 11/1.
- PRECAST CONCRETE EDGINGS SHALL BE 150x50 TYPE EF TO BS EN 1340 REQUIRED AS EDGE RESTRAINT TO BACK OF FOOTWAY AND ADJOINING VERGE.
WEATHERING RESISTANCE: CLASS 3
BENDING STRENGTH: CLASS 2
ABRATION RESISTANCE: CLASS 3.
SLIP/SKID RESISTANCE: MIN P.P.T.V. 45.
- SUBBASE SHALL BE ONE OF THE MATERIALS COMPLYING WITH CLAUSE 891AR OR 893AR.
- FOOTWAY TYPE 1A OR 1B AND EDGING SHALL BE IN ACCORDANCE WITH CL.1105 AND DETAIL HCC9/C/045.
- STANDARD DETAILS OF KERBS, BED AND BACKING ARE ON DRAWING HCC9/C/010 TO 25. PROPOSED KERB TYPE SHOULD MATCH EXISTING.
- THE GRADIENT OF THE DROPPED CROSSING SHALL BE 1 IN 12 MAXIMUM, BUT THE OVERSEEING ORGANISATION WILL DETERMINE THE PRECISE LOCATION AND GRADIENT ON SITE PRIOR TO CONSTRUCTION AND THE EXTENT OF ANY FLAT AREA AT THE REAR OF THE FOOTWAY.
- 4 DROPPED KERBS SHALL BE PROVIDED UNLESS SITE SPECIFIC CONDITIONS PREVENT THIS. A MINIMUM OF 3 DROPPED KERBS MAY BE USED WITH THE AGREEMENT OF THE OVERSEEING ORGANISATION.
- ANY EXCAVATION AND REINSTATEMENT IN FRONT OF THE NEW KERB SHALL BE DETERMINED BY THE OVERSEEING ORGANISATION.

C	NOTE 4 AMENDED.	DEC. 11	MT	MT	PS
B	BINDER COURSE MATERIAL AMENDED AND NOTE 10 ADDED.	DEC. 08	MT	MT	PS
A	SURFACE COURSE AND BINDER COURSE NOTES AMENDED	JAN. 08	MT	MT	TPW
AMENDMENT		DATE	DRAWN	CHKD	APPD

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SCHEME

STANDARD DETAILS

DRAWING TITLE

TYPICAL VEHICLE CROSSING
IN EXISTING FOOTWAY

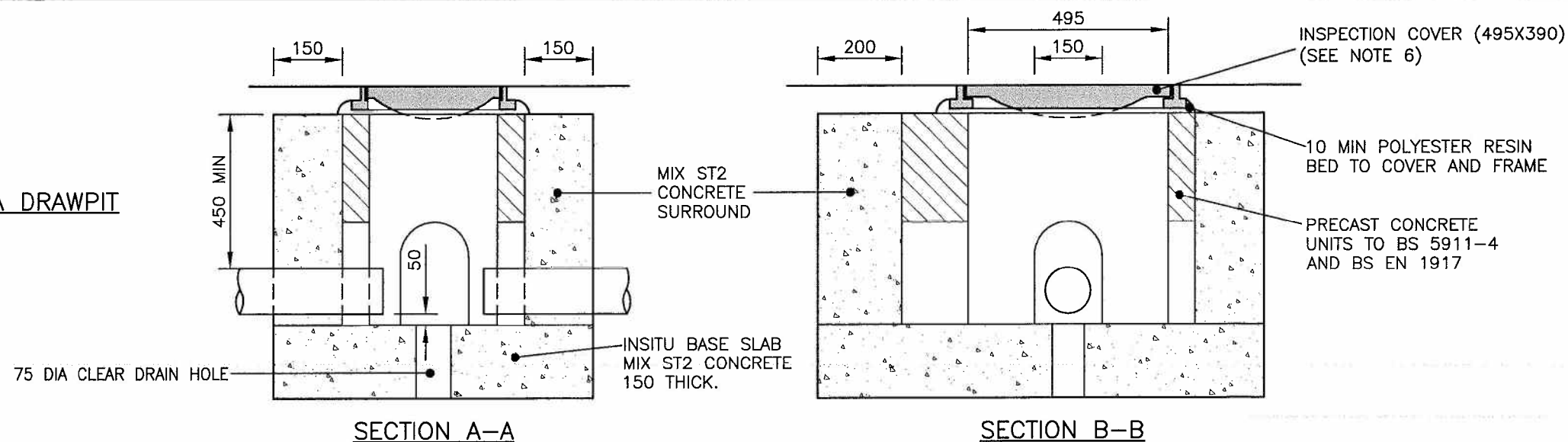
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DRG No.	HCC9/M/035	REVISION	C		

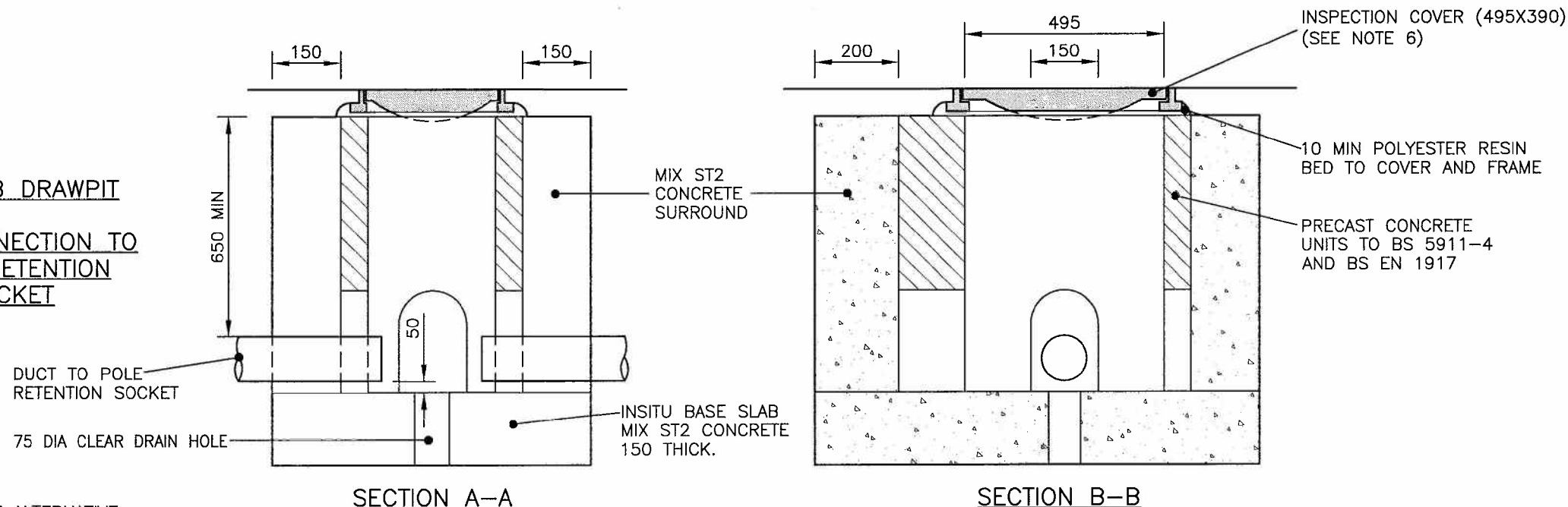
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TYPE 1A DRAWPIT



TYPE 1B DRAWPIT FOR CONNECTION TO POLE RETENTION SOCKET



PLASTIC UNIT ALTERNATIVE:

AS AN ALTERNATIVE TO THE PRECAST CONCRETE UNITS ILLUSTRATED THE CONTRACTOR MAY CONSTRUCT DRAWPIT TYPE 1A OR 1B USING COMPLETE PLASTIC UNITS MANUFACTURED FROM RECYCLED POLYOLEFIN AND BEDDED ON AND SURROUNDED BY A MINIMUM 150 OF MIX ST4 CONCRETE. SUCH CHAMBERS SHALL BE CONSTRUCTED STRICTLY IN ACCORDANCE WITH THE MANUFACTURERS INSTRUCTIONS AND PARTICULAR CARE SHALL BE TAKEN TO AVOID MOVEMENT OR DISTORTION OF THE PLASTIC UNIT DURING THE PLACING AND COMPACTION OF THE CONCRETE SURROUND.

SUCH CHAMBERS CONSTRUCTED WITHIN 2500 OF THE EDGE OF THE CARRIAGEWAY SHALL BE FITTED WITH COVER AND FRAME AS SPECIFIED FOR THE P.C.C. UNIT ABOVE.

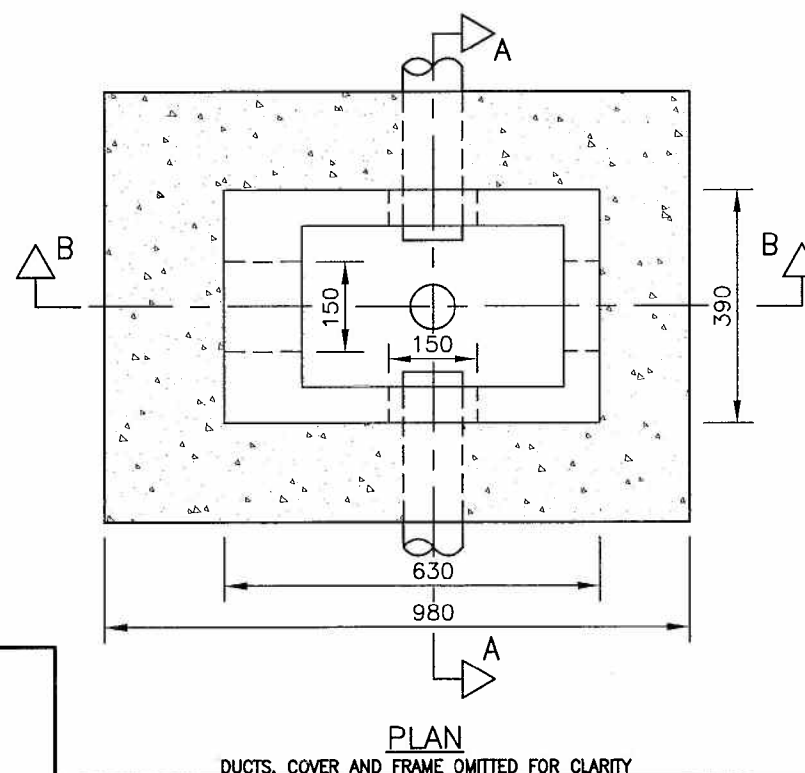
ALL COVER FRAMES SHALL BE BEDDED ON A MINIMUM 10mm OF POLYESTER RESIN SUPPORTED ON THE CONCRETE SURROUND AND NOT ON THE CHAMBER UNIT. CLEAR OPENING DIMENSIONS FOR THE COVERS SHALL BE AS SHOWN FOR P.C.C. UNITS.

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NOTES CONT.

9. ORIENTATION AND NUMBER OF DUCTS MAY VARY ACCORDING TO SCHEME DRAWING.



NOTES:

1. ALL DIMENSIONS ARE IN MILLIMETRES.
2. DUCTS SHALL BE ORANGE, HAVE AN INTERNALLY SMOOTH BORE AND LABELLED "TRAFFIC SIGNALS" AT MAXIMUM 1 METRE INTERVALS AND INSTALLED WITH DRAWCORDS.
3. INSPECTION COVERS SHALL BE MARKED WITH ONE OF THE FOLLOWING:-
'TRAFFIC SIGNALS'
'TRAFFIC LIGHTS'
'SIGNALS'
'H.C.C. SIGNALS'
'U.T.C.'
- LETTER HEIGHT 40 TO 100.
RECESSED AND INFILLED COVERS SHALL NOT BE USED.
4. DUCTS AT DEPTH SHALL BE BROUGHT UP TO THE DRAWPIT USING A SINGLE EASY BEND OF MINIMUM 1 METRE RADIUS.
5. AS AN ALTERNATIVE TO THE PRECAST CONCRETE UNITS ILLUSTRATED THE CONTRACTOR MAY CONSTRUCT THE DRAW PIT USING A PLASTIC UNIT, ALL AS DESCRIBED IN NOTE.
6. INSPECTION COVER (495X390) SHALL BE BOTH TO BS EN 124 AND CERTIFIED BY A UKAS APPROVED THIRD PARTY ACCREDITATION BODY (EG. B.S.I.). CLASS D400 COVERS AND FRAMES SHALL BE USED WHERE VEHICLES MAY OVERRUN THE COVER. IF PROTECTED BY A SAFETY BARRIER, GUARD RAILING OR KERBS MIN. CLASS C250 COVERS AND FRAMES SHALL BE USED.
7. COVERS SHALL NOT INCLUDE SCREWS, FIXINGS OR SCREW HOLES.
8. TYPE 1B DRAWPIT USED TO CONNECT TO POLE RETENTION SOCKET (SEE DRAWING HCC9/T/035 B)

C	CHAMBER COVER DETAILS AMENDED	DEC. 11	MT	JAM	ARG
B	TYPE 1A & 1B DRAWPITS SPECIFIED	JAN. 10	BL	JAM	ARG
A	DUCT COVER DEPTH AND NOTES AMENDED	DEC. 08	DJ	JAM	ARG
	AMENDMENT	DATE	DRAWN	CHKD	APPD

CONSULTANT



SCHEME

STANDARD DETAILS

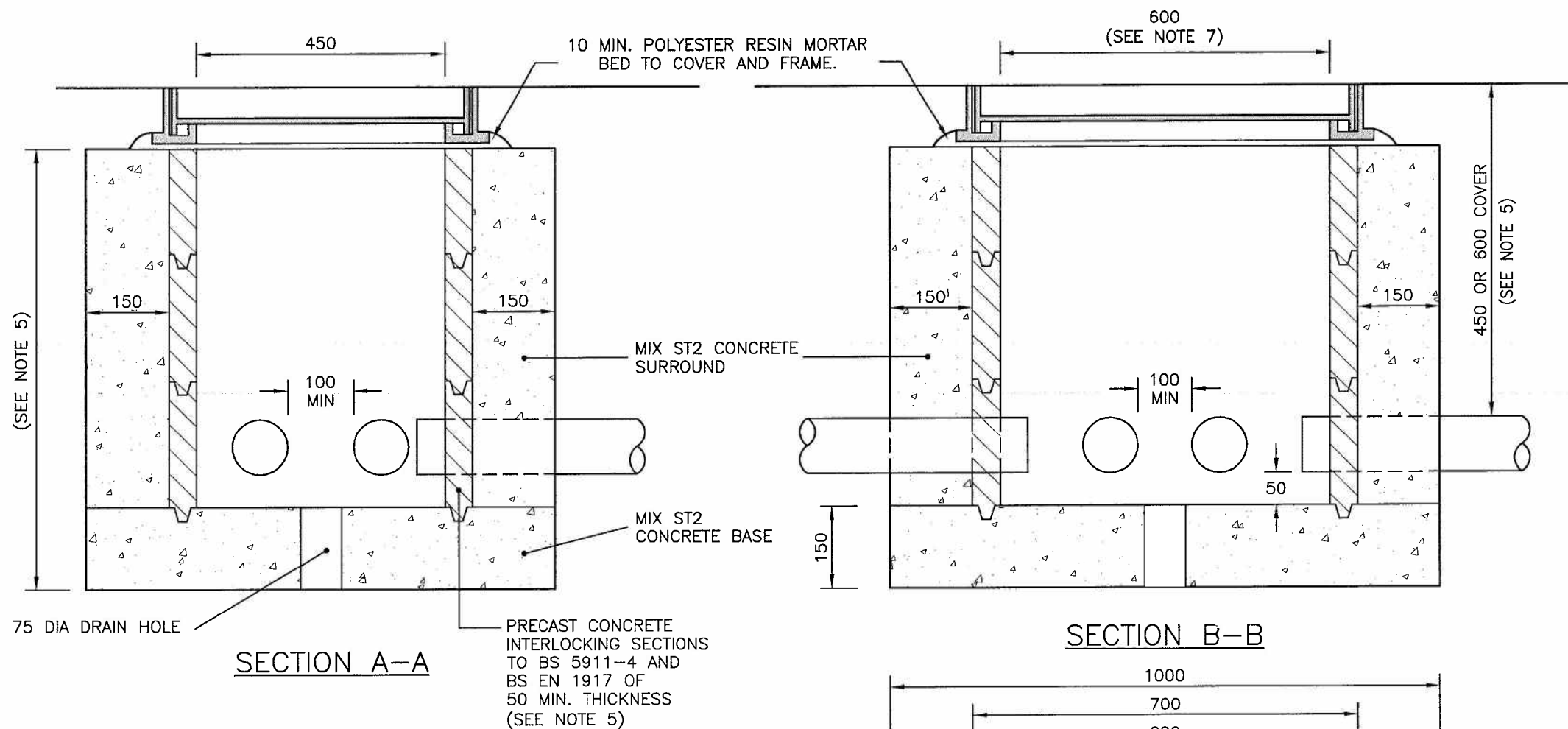
DRAWING TITLE

TRAFFIC SIGNAL DRAWPIT TYPE 1A & 1B

HCC CADplot 19-Jan-2012 at 2:45pm

DRAWN	CHECKED	SCALE
MT	JAM	A3 N.T.S.
CAD	APPROVED	DATE
TRK	ARG	MAY 2007
ORG No.	REVISION	
HCC9/T/005	C	

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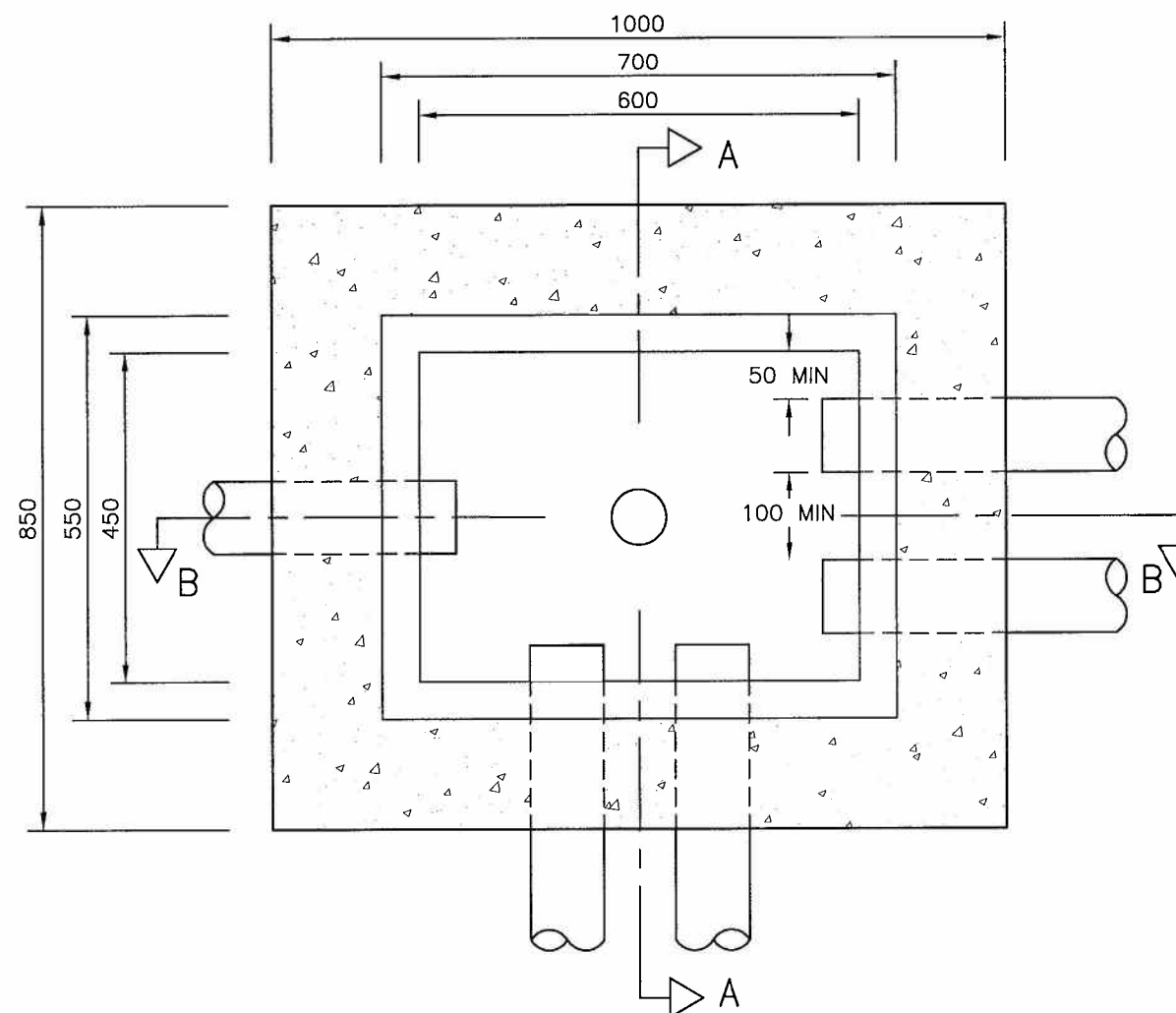


PLASTIC UNIT ALTERNATIVE:

AS AN ALTERNATIVE TO THE PRECAST CONCRETE UNITS ILLUSTRATED THE CONTRACTOR MAY CONSTRUCT DRAWPIT TYPE 1 USING COMPLETE PLASTIC UNITS MANUFACTURED FROM RECYCLED POLYOLEFIN AND BEDDED ON AND SURROUNDED BY A MINIMUM 150 OF MIX ST4 CONCRETE. SUCH CHAMBERS SHALL BE CONSTRUCTED STRICTLY IN ACCORDANCE WITH THE MANUFACTURERS INSTRUCTIONS AND PARTICULAR CARE SHALL BE TAKEN TO AVOID MOVEMENT OR DISTORTION OF THE PLASTIC UNIT DURING THE PLACING AND COMPACTION OF THE CONCRETE SURROUND.

SUCH CHAMBERS CONSTRUCTED WITHIN 2500 OF THE EDGE OF THE CARRIAGEWAY SHALL BE FITTED WITH COVER AND FRAME AS SPECIFIED FOR THE P.C.C. UNIT ABOVE.

ALL COVER FRAMES SHALL BE BEDDED ON A MINIMUM 10mm OF POLYESTER RESIN SUPPORTED ON THE CONCRETE SURROUND AND NOT ON THE CHAMBER UNIT. CLEAR OPENING DIMENSIONS FOR THE COVERS SHALL BE AS SHOWN FOR P.C.C. UNITS.



(COVER AND FRAME OMITTED FOR CLARITY)

NOTES:

- ALL DIMENSIONS ARE IN MILLIMETRES.
- DUCTS SHALL BE ORANGE, HAVE AN INTERNALLY SMOOTH BORE AND LABELED "TRAFFIC SIGNALS" AT MAXIMUM 1 METRE INTERVALS AND INSTALLED WITH DRAWCORDS.
- INSPECTION COVERS SHALL BE MARKED WITH ONE OF THE FOLLOWING:-
'TRAFFIC SIGNALS'
'TRAFFIC LIGHTS'
'SIGNALS'
'H.C.C. SIGNALS'
'U.T.C.'
- LETTER HEIGHT 40 TO 100.
RECESSED AND INFILLED COVERS SHALL NOT BE USED.
- DUCTS AT DEPTH SHALL BE BROUGHT UP TO THE DRAWPIT USING A SINGLE EASY BEND OF MINIMUM 1 METRE RADIUS.
- DEPTH OF DRAWPIT SHALL BE DICTATED BY DEPTH OF THE DEEPEST DUCT ENTERING THE DRAWPIT. (COVER TO CARRIAGEWAY DUCTS SHALL BE 600 MIN., COVER TO VERGE DUCTS SHALL BE 450 MIN.) WHERE THE NUMBER OF DUCTS SPECIFIED CANNOT BE ARRANGED AT ONE DEPTH, THE DEPTH OF THE DRAWPIT SHALL BE INCREASED SUCH THAT THE VERTICAL CLEARANCE BETWEEN THE DUCT LAYERS IS 100 MIN.
- FOR DETAILS OF INSTALLATION WITH CONTROLLER, SEE DRAWING NO. HCC9/T/020.
- INSPECTION COVER (495X390) SHALL BE BOTH TO BS EN 124 AND CERTIFIED BY A UKAS APPROVED THIRD PARTY ACCREDITATION BODY (EG. B.S.I.). CLASS D400 COVERS AND FRAMES SHALL BE USED WHERE VEHICLES MAY OVERRUN THE COVER. IF PROTECTED BY A SAFETY BARRIER, GUARD RAILING OR KERBS MIN. CLASS C250 COVERS AND FRAMES SHALL BE USED.
- AS AN ALTERNATIVE TO THE PRECAST CONCRETE UNITS ILLUSTRATED THE CONTRACTOR MAY CONSTRUCT THE DRAW PIT USING A PLASTIC UNIT, ALL AS DESCRIBED IN NOTE.
- COVERS SHALL NOT INCLUDE SCREWS, FIXINGS OR SCREW HOLES.

C	CHAMBER COVER DETAILS AMENDED	DEC. 11	BL	JAM	ARG
B	DUCT DEPTH CHANGED	JAN. 10	BL	JAM	ARG
A	NOTES AMENDED	DEC. 06	DJ	JAM	ARG
AMENDMENT		DATE	DRAWN	CHKD	APPD

CONSULTANT



STUART JARVIS BSc Dippt FTHT WRTP, DIRECTOR OF ENVIRONMENT, THE CASTLE, WINCHESTER.

SCHEME

STANDARD DETAILS

DRAWING TITLE

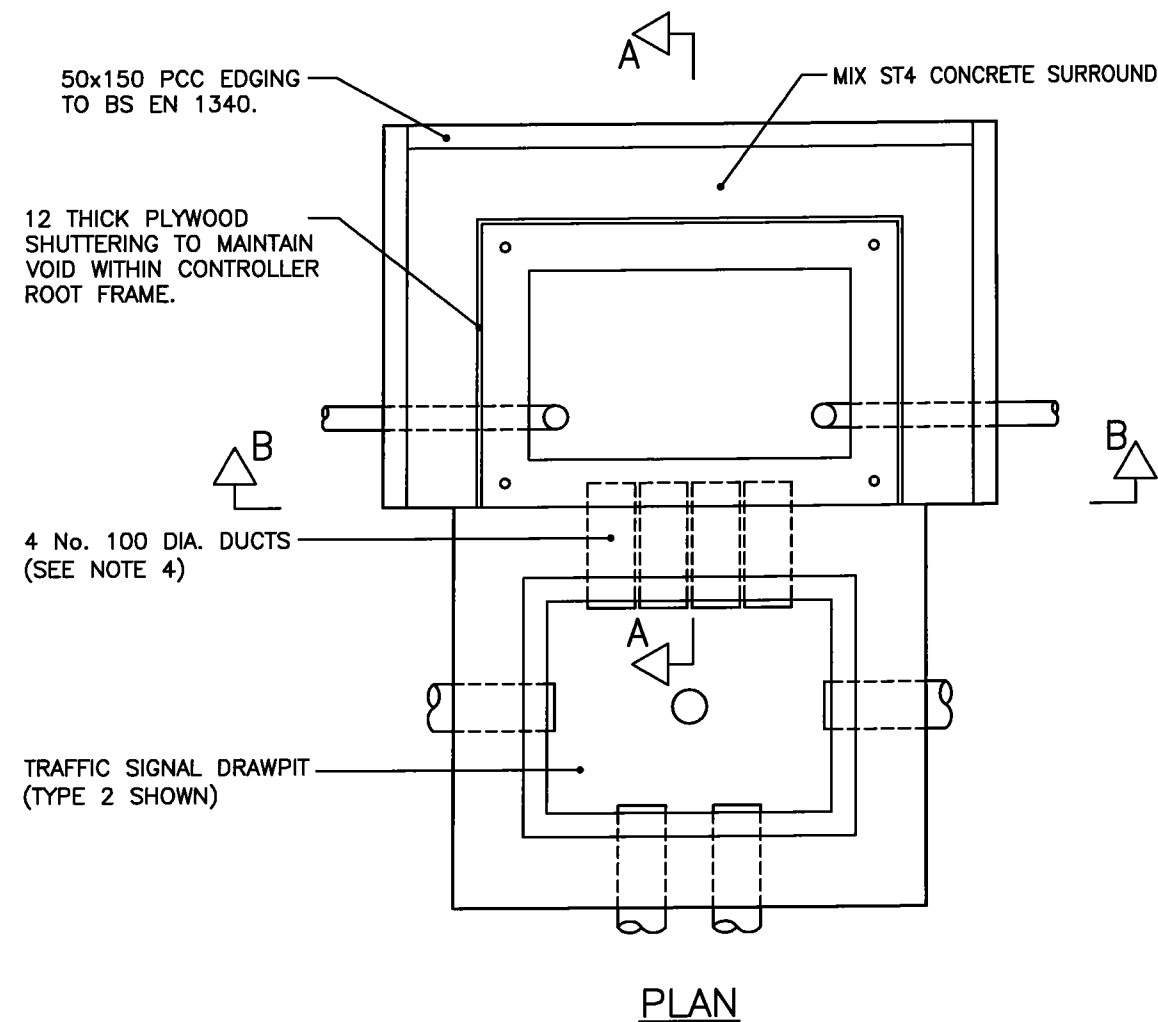
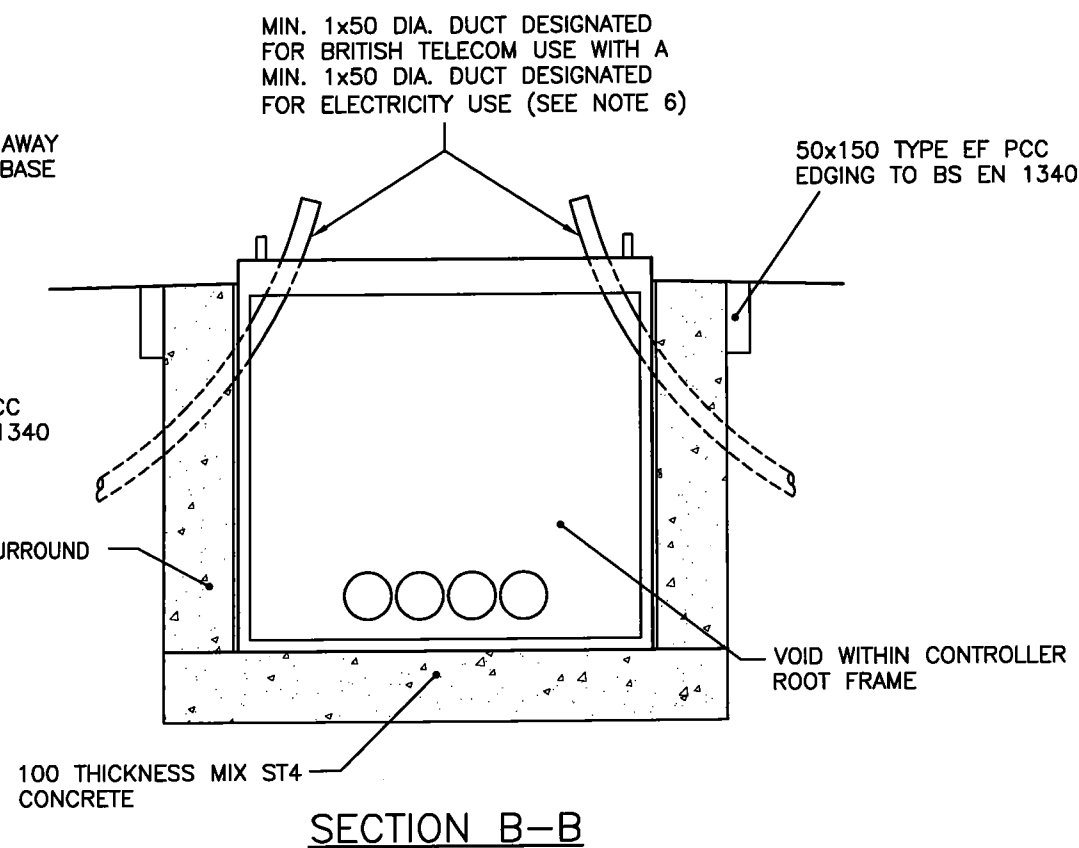
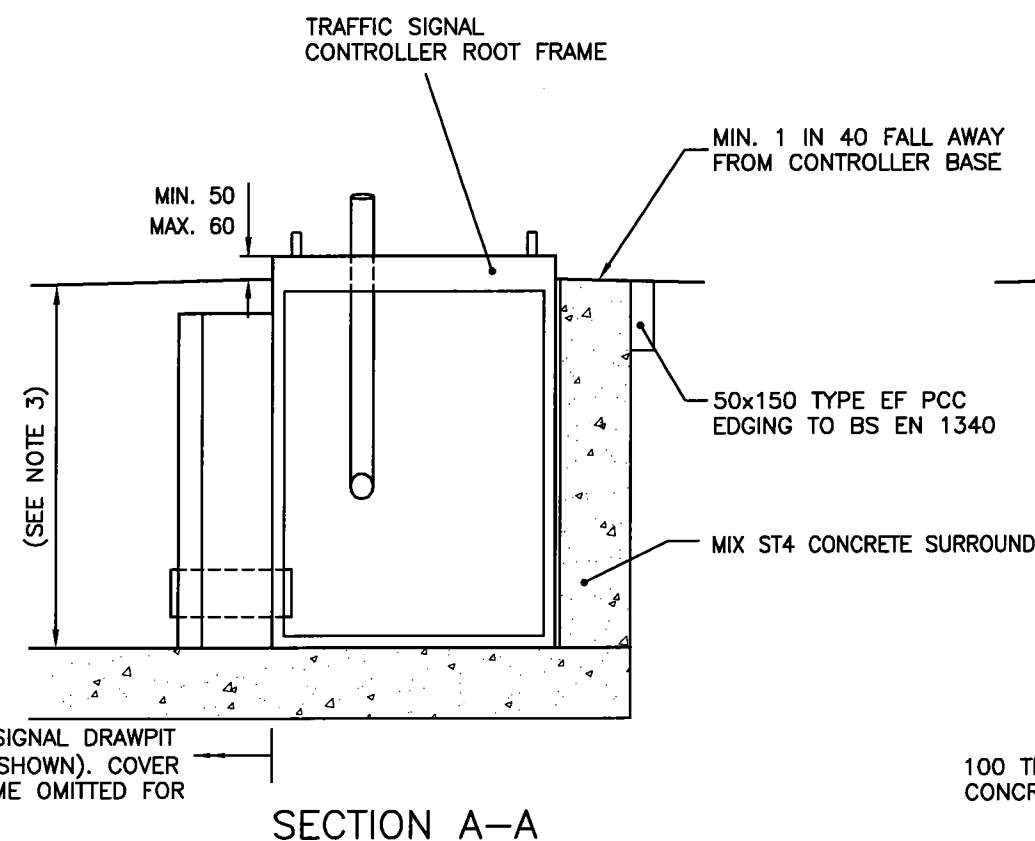
TRAFFIC SIGNAL DRAWPIT TYPE 2

HCC CADplot: 19-Jan-2012 at 2:45pm

DRAWN	MT	CHECKED	JAM	JAM	SCALE	A3	N.T.S.
CAD	TRK	APPROVED	ARG	ARG	DATE	MAY 2007	
DRG No.	HCC9/T/010					REVISION	C

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NOTES:

1. ALL DIMENSIONS ARE IN MILLIMETRES.
2. THE NUMBER OF DUCTS INTO CONTROLLER ARE DETAILED ON TRAFFIC SIGNAL LAYOUT DRAWING AND SHALL BE IN ACCORDANCE WITH THE RELEVANT COLOUR CODE.
3. THE DEPTH OF EXCAVATION FOR CONTROLLER CASE ROOT SHALL BE AS SPECIFIED ELSEWHERE IN THE CONTRACT.
4. 4 No. DUCTS FROM DRAWPIT TO CONTROLLER ROOT SHALL BE DEDICATED FOR TRAFFIC SIGNAL USE ONLY.
5. TRAFFIC SIGNAL CONTROLLER CHAMBER
TYPE A - AS SHOWN.
TYPE B - AS SHOWN BUT WITH 900 WIDTH OF HARDSTANDING ALL ROUND CONSTRUCTED AS FOOTWAY TYPE 2 ON DRAWING No. HCC9/C/045.
6. DUCT DESIGNATED FOR ELECTRICITY USE SHALL NOT PASS THROUGH THE DRAWPIT.
7. COVERS SHALL NOT INCLUDE SCREWS, FIXINGS OR SCREW HOLES.

A	NOTE 7 ADDED	DEC 08	DJ	JAM	ARG
	AMENDMENT	DATE	DRAWN	CHKD	APPD

CONSULTANT



SCHEME

STANDARD DETAILS

DRAWING TITLE

DETAILS OF TRAFFIC SIGNAL CONTROLLER CHAMBERS TYPES A & B

HCC CADplot: 30-Jan-2009 at 11:17am

DRAWN	MT	CHECKED	JAM	JAM	SCALE	A3	N.T.S.
CAD	TRK	APPROVED	ARG	ARG	DATE	MAY 2007	
DRG No.	HCC9/T/020					REVISION	A

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HCC CADfile: K:\Eng\Standard\AutoCAD\Standard Details (Secure) 2007_2008\T_020a.dwg

DIMENSION VARIES DEPENDING ON CONSTRUCTION DEPTH OF FOOTWAY OR HARD STANDING. SUBBASE MATERIAL TO HARD STANDING TO BE OMITTED ABOVE CONCRETE SURROUND TO SIGNAL POLE

MIN. DEPTH = 600
MAX. DEPTH = 620

MIX ST2 CONCRETE

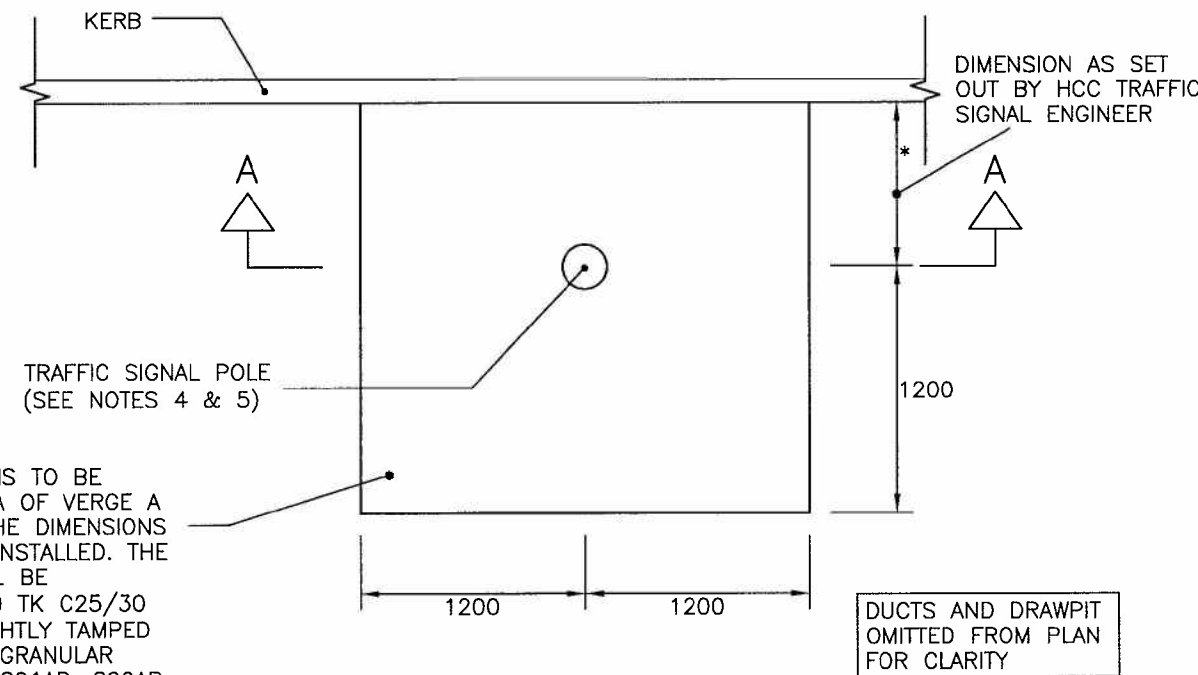
TRAFFIC SIGNAL POLE
(SEE NOTES 4 & 5)

CLEAR AREA SHALL BE PROVIDED BETWEEN SLOT IN DRAWPIT WALL AND SLOT IN SIGNAL POST

SLOT CUT THROUGH DRAWPIT WALL ADJACENT TO CABLE ENTRY SLOT IN SIGNAL POST

MIX ST2 CONCRETE BASE
MINIMUM 100 THICK

SECTION A-A



PLAN

WHERE SIGNAL POLE IS TO BE INSTALLED IN AN AREA OF VERGE A HARD STANDING TO THE DIMENSIONS INDICATED SHALL BE INSTALLED. THE HARD STANDING SHALL BE CONSTRUCTED OF 150 TK C25/30 CONCRETE WITH A LIGHTLY TAMPED FINISH OVER 150 TK GRANULAR SUBBASE TO CLAUSE 891AR, 892AR OR 893AR. THE HARD STANDING SHALL HAVE A FALL OF 1 IN 40 TOWARDS THE CARRIAGEWAY OR AS AGREED WITH HCC'S TRAFFIC SIGNAL ENGINEER (SEE NOTE ON SECTION A-A, ABOVE FOR FURTHER INFORMATIO.

NOTES: (CONT)

7. WHERE SIGNAL POLE TO BE INSTALLED IN VERGE A HARDSTANDING SHALL BE CONSTRUCTED AROUND THE POLE AS SHOWN ON PLAN ABOVE

NOTES:

1. ALL DIMENSIONS ARE IN MILLIMETRES.
2. WHERE A TALL (6m) TRAFFIC SIGNAL POLE IS SPECIFIED, THE EXTENT OF CONCRETE SURROUND SHALL BE INCREASED TO 450.
3. AS AN ALTERNATIVE TO THE PRECAST CONCRETE UNITS ILLUSTRATED THE CONTRACTOR MAY CONSTRUCT THE TRAFFIC SIGNAL POLE CONNECTION USING A PLASTIC UNIT, ALL AS DESCRIBED IN NOTE.
4. FOR ROADS WITH A SPEED LIMIT OF 50 MPH OR GREATER, ALL APPLICABLE TRAFFIC SIGNAL POLES SHOULD BE CONSIDERED INDIVIDUALLY AS TO THEIR SUITABILITY TO BE MADE PASSIVELY SAFE AND THE DECISIONS TAKEN SHALL BE OUTLINED IN THE TRAFFIC SIGNAL HAZARD ASSESSMENT TA 89/05 (USE OF PASSIVELY SAFE SIGNPOSTS, LIGHTING COLUMNS AND TRAFFIC SIGNAL POLES TO BS EN 12767).
5. WHERE SPECIFIED, THE INSTALLATION OF PASSIVELY SAFE TRAFFIC SIGNAL POLES SHALL BE IN ACCORDANCE WITH THE MANUFACTURERS INSTRUCTIONS.
6. IN ORDER TO HIGHLIGHT THEIR PRESENCE TO VISUALLY IMPAIRED PEDESTRIANS (SEE DfT INCLUSIVE MOBILITY PARA. 3.9) TRAFFIC SIGNAL POLES, EXCEPT THOSE ON WHICH PUSH BUTTONS ARE MOUNTED, WHICH ARE TO BE ERECTED IN FOOTWAY AREAS OR WITHIN 0.5m OF A FOOTWAY OR CYCLEWAY, SHALL HAVE A 150 DEEP SELF ADHESIVE BAND APPLIED AT BETWEEN 1.5m AND 1.6m TO THE BOTTOM EDGE ABOVE GROUND LEVEL. THE BAND SHALL BE IN A RETROREFLECTIVE MATERIAL TO BS 873 CLASS 1 OR 2. THE ENDS OF THE TAPE SHALL BE SECURED TO RESIST REMOVAL.

PLASTIC UNIT ALTERNATIVE:

AS AN ALTERNATIVE TO THE PRECAST CONCRETE UNITS ILLUSTRATED THE CONTRACTOR MAY CONSTRUCT THE TRAFFIC SIGNAL POLE CONNECTION USING COMPLETE PLASTIC UNITS MANUFACTURED FROM RECYCLED POLYOLEFIN AND BEDDED ON AND SURROUNDED BY A MINIMUM 150 OF MIX ST4 CONCRETE. SUCH CHAMBERS SHALL BE OF ONE-PIECE CONSTRUCTION AND SHALL BE CONSTRUCTED STRICTLY IN ACCORDANCE WITH THE MANUFACTURERS INSTRUCTIONS. PARTICULAR CARE SHALL BE TAKEN TO AVOID MOVEMENT OR DISTORTION OF THE PLASTIC UNIT DURING THE PLACING AND COMPACTION OF THE CONCRETE SURROUND.

SUCH CHAMBERS CONSTRUCTED WITHIN 2500 OF THE EDGE OF THE CARRIAGEWAY SHALL BE FITTED WITH COVER AND FRAME AS SPECIFIED FOR THE P.C.C. UNIT ABOVE.

ALL COVER FRAMES SHALL BE BEDDED ON A MINIMUM 10 THICK POLYESTER RESIN SUPPORTED ON THE CONCRETE SURROUND AND NOT ON THE CHAMBER UNIT. ALL COVERS SHALL HAVE INTEGRAL LOCKING FACILITY. CLEAR OPENING DIMENSIONS FOR THE COVERS SHALL BE AS SHOWN FOR P.C.C. UNITS.

B	PLAN AND NOTE 7 ADDED	DEC. 11	MT	JAM	ARC
A	NOTE 6 ADDED	DEC. 08	RDG	JAM	ARG
	AMENDMENT	DATE	DRAWN	CHKD	APPD

CONSULTANT



AUSON QUANT BSc MSc MRTP, DIRECTOR OF ENVIRONMENT, THE CASTLE, WINCHESTER.

SCHEME

STANDARD DETAILS

DRAWING TITLE

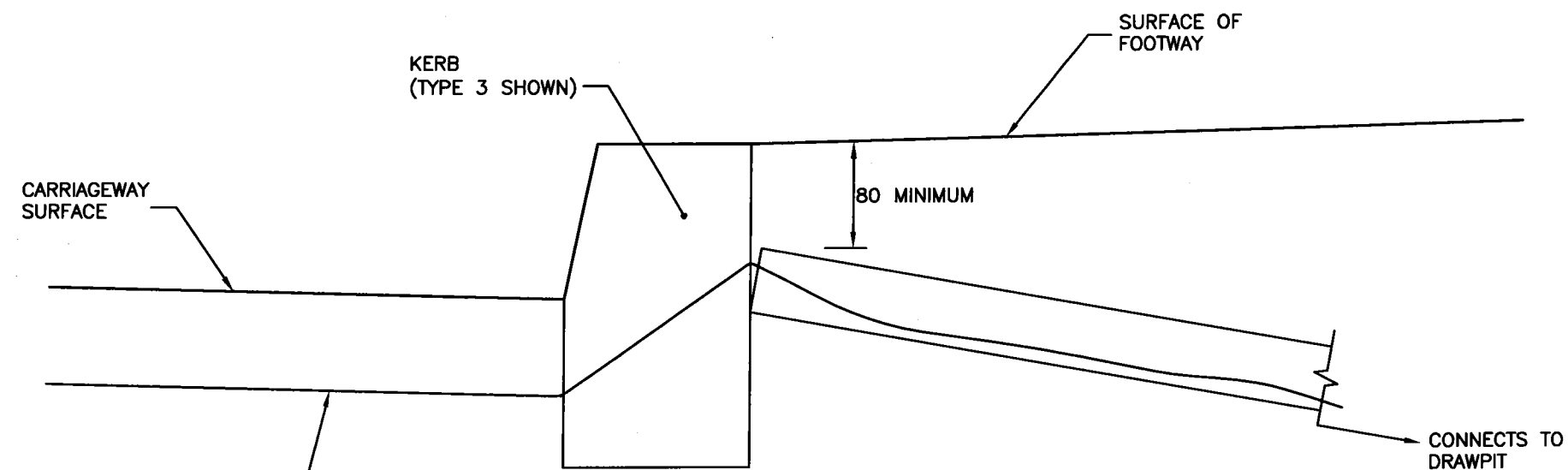
DETAILS OF TRAFFIC SIGNAL POLE CONNECTION

HCC CADplot: 19-Jan-2012 at 2:57pm

DRAWN	MT	CHECKED	JAM	JAM	SCALE	A3	N.T.S.
CAD	TRK	APPROVED	ARG	ARG	DATE	MAY 2007	
DRG No.	HCC9/T/025					REVISION	B

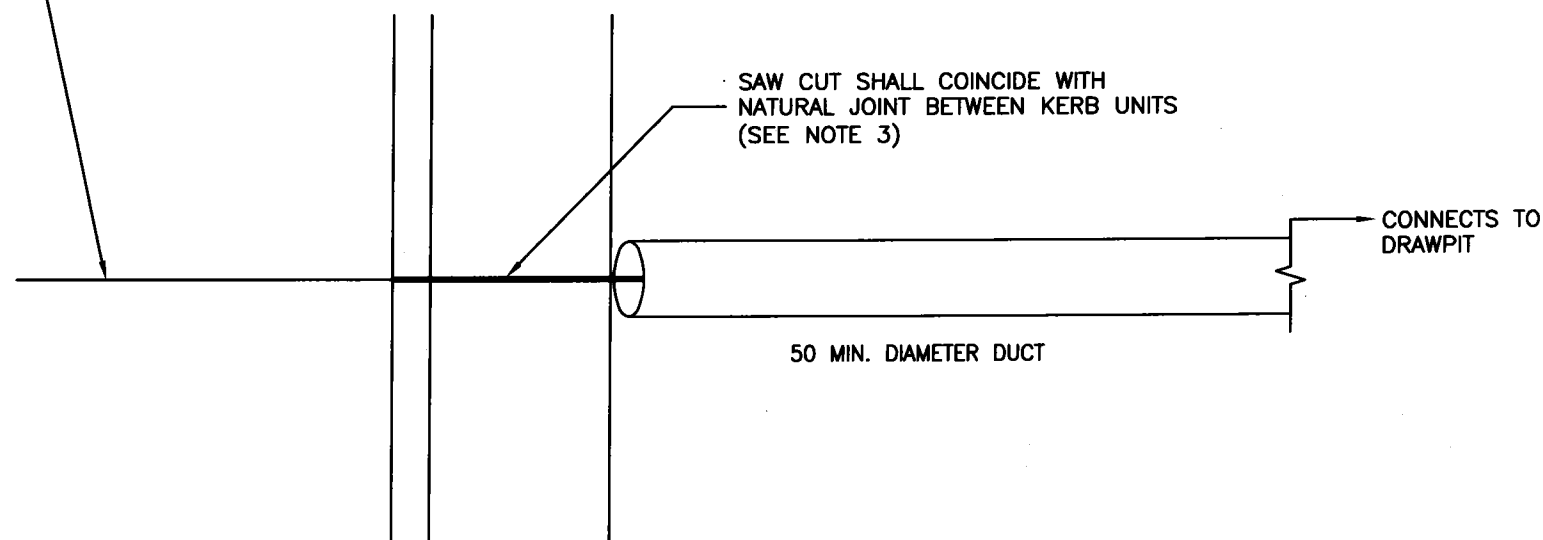
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SECTIONAL ELEVATION

VEHICLE DETECTOR LOOP TAILS



PLAN

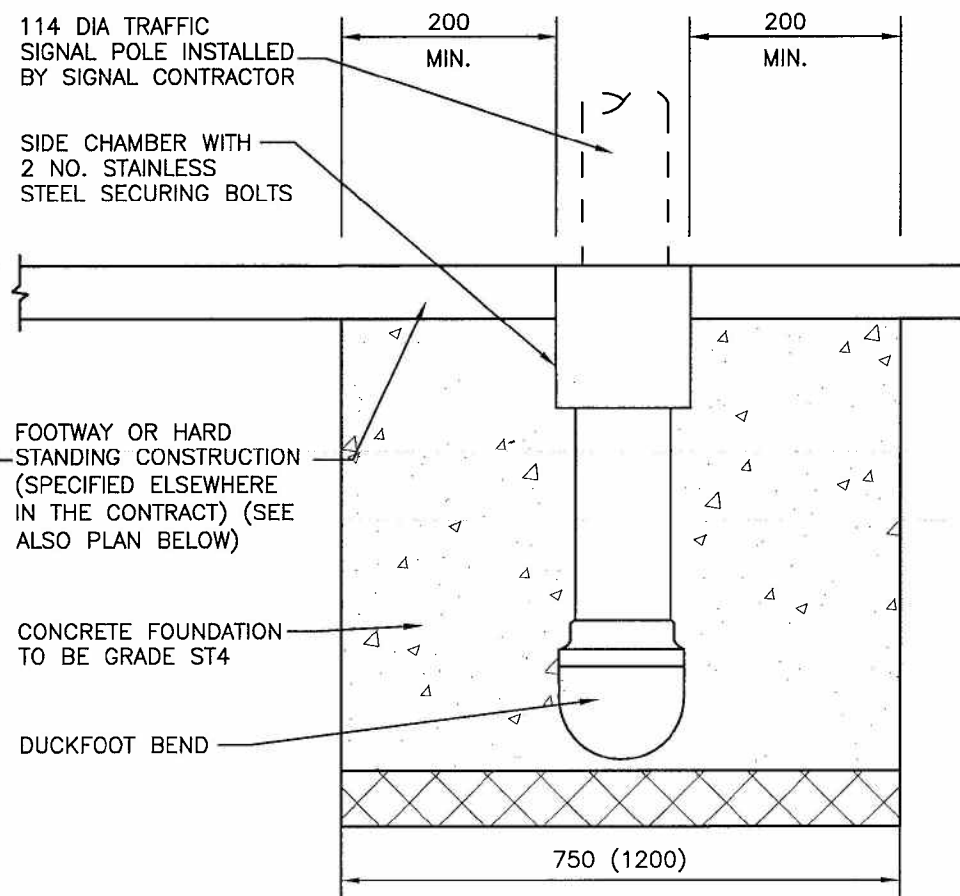
NOTES:

1. ALL DIMENSIONS ARE IN MILLIMETRES.
2. WHERE DUCTS ARE INSTALLED IN ADVANCE OF THE VEHICLE DETECTOR LOOPS, THEIR POSITIONS SHALL BE MARKED ON-SITE BY AN APPROPRIATE METHOD AGREED WITH THE ENGINEER.
3. WHERE NO KERB EXISTS OR COMBINED KERB AND DRAINAGE UNITS ARE USED, REFER TO DRAWING HCC9/T/050

AMENDMENT	DATE	DRAWN	CHKD	APPD
CONSULTANT				
				
ALISON QUANT BSc MSc MRTP, DIRECTOR OF ENVIRONMENT, THE CASTLE, WINCHESTER.				
SCHEME				
STANDARD DETAILS				
DRAWING TITLE				
DETAILS OF CONNECTION OF VEHICLE DETECTOR LOOP				
HCC CADplot: 03.Jul.2007 at 1:02pm				
DRAWN	MT	CHECKED	JAM	SCALE A3 N.T.S.
CAD	TRK	APPROVED	ARG	DATE MAY 2007
DRG No.	HCC9/T/030			REVISION

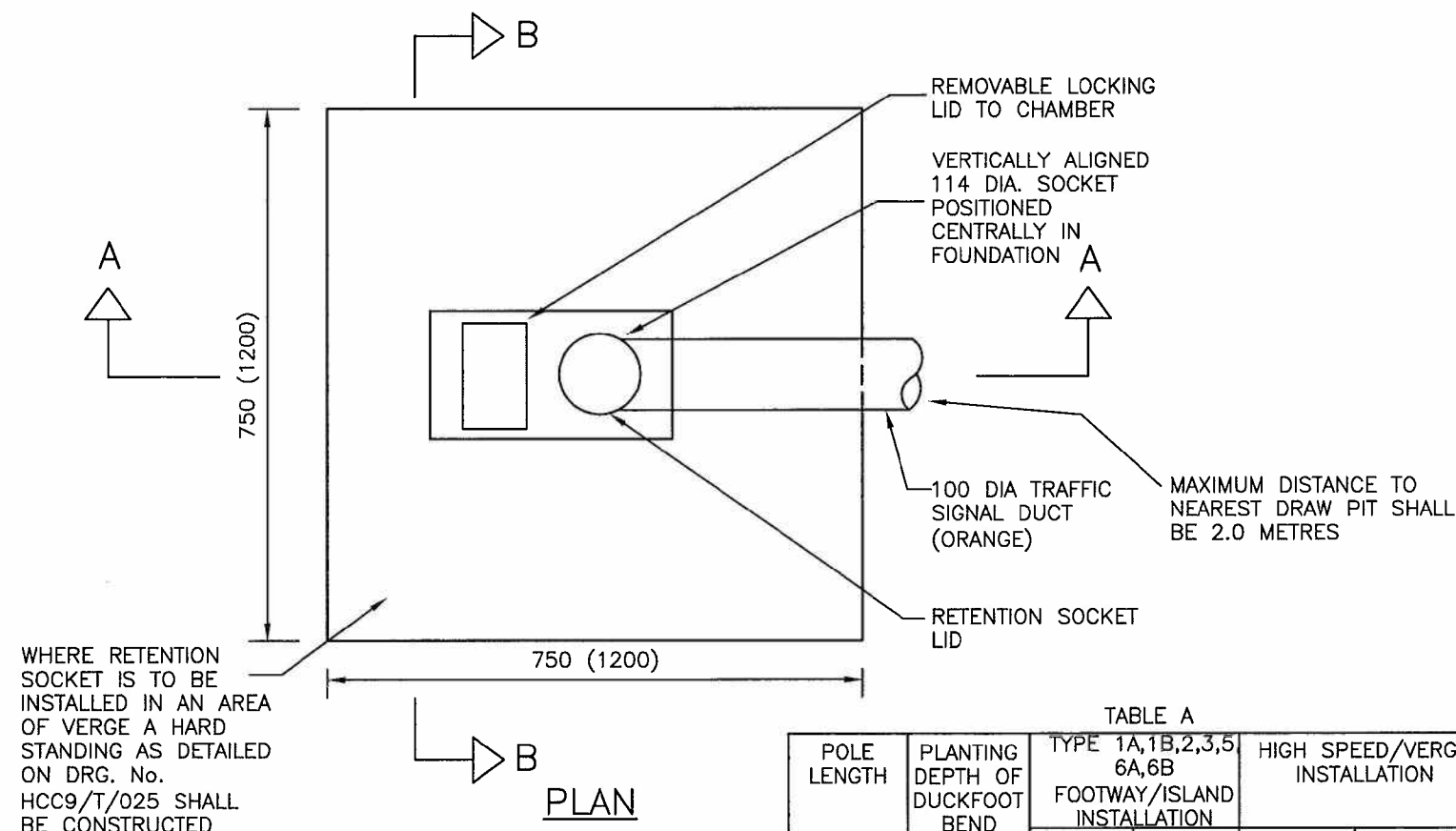
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SECTION A-A

SECTION B-B



PLAN

STANDARD DIMENSIONS

POLE LENGTH	PLANTING DEPTH OF DUCKFOOT BEND	TYPE 1A,1B,2,3,5, 6A,6B FOOTWAY/ISLAND INSTALLATION		HIGH SPEED/VERGE INSTALLATION	
		LENGTH	WIDTH	LENGTH	WIDTH
≤4M	300	1200	1200	1600	1600
≤4M	450	1000	1000	1400	1400
≤4M	600	850	850	1300	1300
4M	750	750	750	1200	1200
6M	900	680	680	1100	1100

NOTES: (CONT)

10. IN EXCEPTIONAL CIRCUMSTANCES AND ONLY IN AGREEMENT WITH THE HCC ITS ENGINEER THE PLANTING DEPTH OF THE DUCKFOOT BEND MAY BE VARIED FROM THAT SHOWN. FOR A 4M TALL SIGNAL POLE THE FOUNDATION SIZE SHOULD BE CONSTRUCTED TO THE DIMENSIONS SHOWN IN TABLE A.
11. FOR ANY SIGNAL POLES GREATER THAN 6M TALL CONTACT HCC ITS ENGINEER FOR DETAILS OF PLANTING DEPTH.
12. THE DUCKFOOT BEND MAY BE REPLACED WITH A 'T' SHAPED BEND WHERE SPECIFIED ON THE TRAFFIC SIGNAL DRAWING.
13. WHERE THE FOOTWAY SLOPES A WEDGE SHAPED RETENTION SOCKET LID MAY BE USED TO PROVIDE A CONTINUOUS FALL OF SLOPE.
14. FOR ROADS WITH A SPEED LIMIT OF 50 MPH OR GREATER, ALL APPLICABLE TRAFFIC SIGNAL POLES SHOULD BE CONSIDERED INDIVIDUALLY AS TO THEIR SUITABILITY TO BE MADE PASSIVELY SAFE AND THE DECISIONS SHALL BE OUTLINED IN THE TRAFFIC SIGNAL HAZARD ASSESSMENT TA 89/05 (USE OF PASSIVELY SAFE SIGNPOSTS, LIGHTING COLUMNS AND TRAFFIC SIGNAL POLES TO BS EN 12767).
15. IN ORDER TO HIGHLIGHT THEIR PRESENCE TO VISUALLY IMPAIRED PEDESTRIANS (SEE DFT INCLUSIVE MOBILITY PARA 3.9) TRAFFIC SIGNAL POLES, EXCEPT THOSE ON WHICH PUSH BUTTONS ARE MOUNTED, WHICH ARE TO BE INSTALLED IN FOOTWAY AREAS OR WITHIN 0.5M OF A FOOTWAY OR CYCLEWAY, SHALL HAVE A 150 DEEP SELF ADHESIVE BAND APPLIED AT BETWEEN 1.5M AND 1.6M TO THE BOTTOM EDGE ABOVE GROUND LEVEL.
THE BAND SHALL BE A RETROREFLECTIVE MATERIAL TO BS 873 CLASS 1 OR 2.
THE ENDS OF THE TAPE SHALL BE SECURED TO RESIST REMOVAL.

NOTES:

1. ALL DIMENSIONS ARE IN MILLIMETRES.
2. DUCTS SHALL BE ORANGE AND LABELLED 'TRAFFIC SIGNALS' AT MAXIMUM 1 METRE INTERVALS.
3. RETENTION SOCKETS TO BE INSTALLED IN ACCORDANCE WITH MANUFACTURERS INSTRUCTIONS.
4. THE CIVIL ENGINEERING CONTRACTOR SHALL BE RESPONSIBLE FOR ENSURING THE VERTICAL ALIGNMENT OF THE POLE RETENTION SOCKET IN ACCORDANCE WITH MANUFACTURERS INSTRUCTIONS.
5. THE CONTRACTOR SHALL PROVE TO THE HCC ITS ENGINEER USING A POST THAT THE SOCKET IS VERTICALLY ALIGNED.
6. TRAFFIC SIGNAL POLE SHALL BE INSTALLED BY THE TRAFFIC SIGNAL CONTRACTOR.
7. A DRAW ROPE SHALL BE TAKEN FROM THE NEAREST DRAW PIT INTO THE SIDE CHAMBER OF THE RETENTION SOCKET.
8. ANNOTATED DIMENSIONS REFER TO 4M TALL SIGNAL POLES LOCATED IN FOOTWAYS/ISLANDS. DIMENSIONS IN BRACKETS REFER TO 4M TALL SIGNAL POLES LOCATED IN HIGH SPEED/VERGE INSTALLATIONS.
9. ROADS WITH A SPEED LIMIT OF 50 MPH OR GREATER SHALL BE CONSIDERED AS HIGH SPEED. FOR SIGNAL POLES ON SUCH ROADS OR WHERE SIGNAL POLES ARE LOCATED IN VERGES, AND WHERE SPECIFIED ON THE TRAFFIC SIGNAL DRAWING, THE CONCRETE FOUNDATION FOR A 4 METRE TALL SIGNAL POLE SHALL BE 1200 X 1200 AND THE DUCKFOOT BEND AT 750 DEEP. FOR A 6 METRE TALL SIGNAL POLE, ON A HIGH SPEED INSTALLATION OR IN A VERGE, THE CONCRETE FOUNDATION SHALL BE 1100 BY 1100 AND THE DUCKFOOT BEND AT 900 DEEP.

C	HARD STANDING NOTES ADDED	DEC. 11	MT	JAM	ARG
B	TITLE AND DETAIL FULLY REVISED	JAN. 10	RDG	JAM	ARG
A	NOTE 8 & 9 ADDED	DEC. 08	DJ	JAM	ARG
	AMENDMENT	DATE	DRAWN	CHKD	APPD

CONSULTANT



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SCHEME

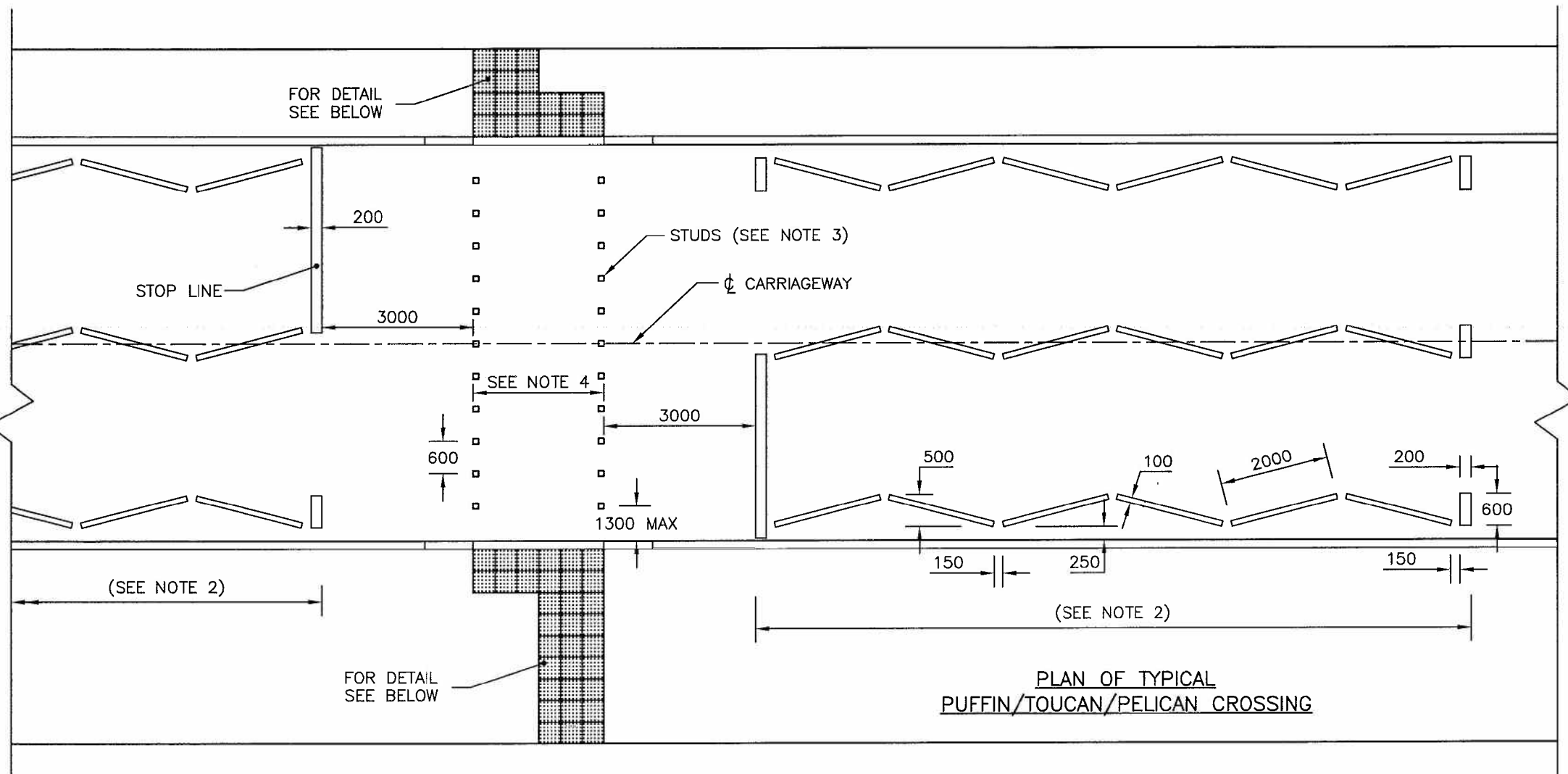
STANDARD DETAILS

DRAWING TITLE

TRAFFIC SIGNAL RETENTION POLE SOCKETS

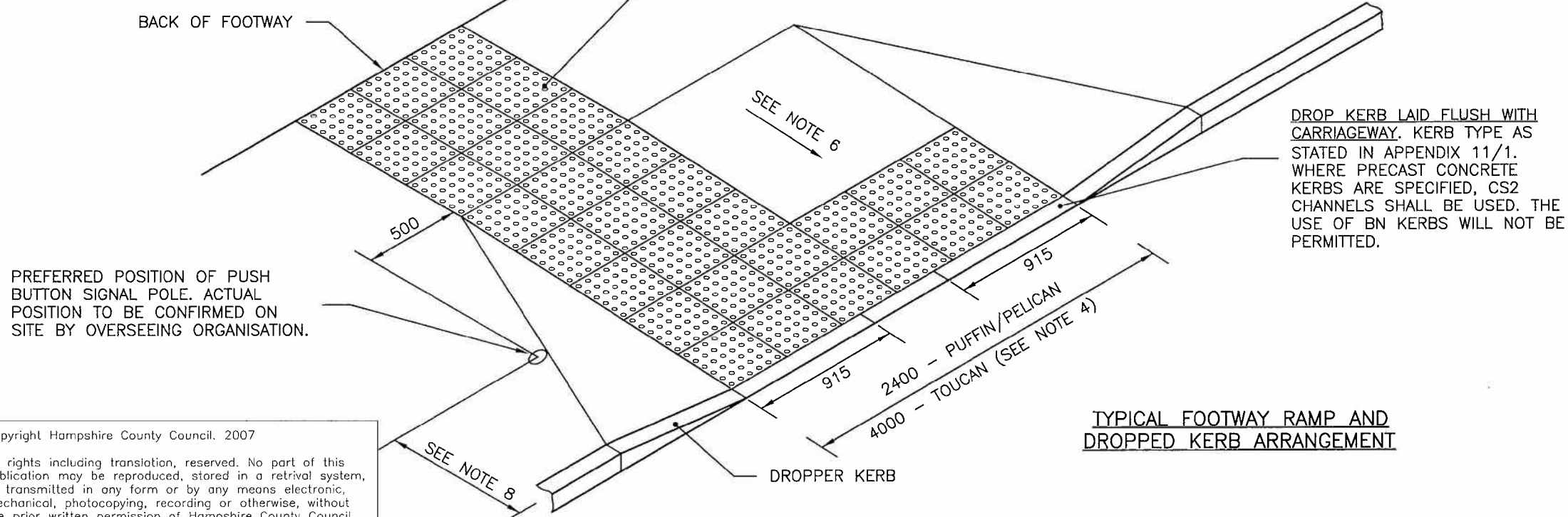
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DRAWN MT		CHECKED JAM JAM	SCALE A3 N.T.S.
CAD RDG		APPROVED ARG ARG	DATE MAY 2007
DRG No. HCC9/T/035			REVISION C



PLAN OF TYPICAL
PUFFIN/TOUCAN/PELICAN CROSSING

400x400x50 BLISTER TACTILE FLAGS (MODULE 2) RED COLOURED AND MANUFACTURED TO BS EN 1339 AND BS 7997. ALL LAID ON 25 THICKNESS OF CLASS (ii) MORTAR BED TO CLAUSE 2404 ON 200 WET LEAN CONCRETE 2, C8/10 TO CLAUSE 1030.



TYPICAL FOOTWAY RAMP AND
DROPPED KERB ARRANGEMENT

NOTES:

- ALL DIMENSIONS ARE IN MILLIMETRES.
- THE EXTENT OF ZIG-ZAG ROAD MARKINGS SHALL BE AS SHOWN ON LAYOUT DRAWINGS.
- STUDS 100x100 SQUARE AND ZIG ZAGS SHALL BE, WHITE, THERMOPLASTIC ROAD MARKING MATERIAL COMPLYING WITH CLAUSE 1212SR.
- UNLESS OTHERWISE STATED IN APPENDIX 12/5 THE CROSSING WIDTH SHALL BE 2400 FOR A PUFFIN/PELICAN CROSSING AND 4000 FOR A TOUCAN CROSSING.
- DETAILS OF DUCTING, TRAFFIC SIGNAL CONTROLLER AND DRAWPIIT TYPES AND LOCATIONS SHALL BE AS SHOWN ON THE LAYOUT DRAWINGS AND AS DESCRIBED IN APPENDIX 12/5.
- THE GRADIENT OF THE DROPPED CROSSING SHALL BE 1 IN 20, BUT THE OVERSEEING ORGANISATION WILL DETERMINE THE PRECISE GRADIENT ON SITE PRIOR TO CONSTRUCTION.
- AT LOCATIONS WHERE THE TACTILE PAVING MAY BE OVERRIDEN BY HEAVY VEHICLES, AND WHERE INDICATED ON THE LAYOUT DRAWINGS OR IN APPENDIX 11/1, MODULAR TYPE 3, RED TACTILE PAVING BLOCKS, AS DETAILED ON DRAWING No HCC9/C/060 SHALL BE USED.
- DIMENSIONS TO BE 500 FOR PUFFIN/TOUCAN CROSSINGS AND 900 FOR PELICAN CROSSINGS.
- FOR POSITION OF ADDITIONAL POLES TOUCAN SEE SCHEME LAYOUT DRAWING.

B	MORTAR REFERENCE AND SUBBASE TYPE AMENDED	DEC. 11	MT	JAM	APD
A	POLE OFFSET DIMENSION AMENDED	DEC. 08	RDG	MT	IDH
	AMENDMENT	DATE	DRAWN	CHKD	APPD

CONSULTANT



AUSON QUANT BSc MSc MRTP, DIRECTOR OF ENVIRONMENT, THE CASTLE, WINCHESTER.

SCHEME

STANDARD DETAILS

DRAWING TITLE

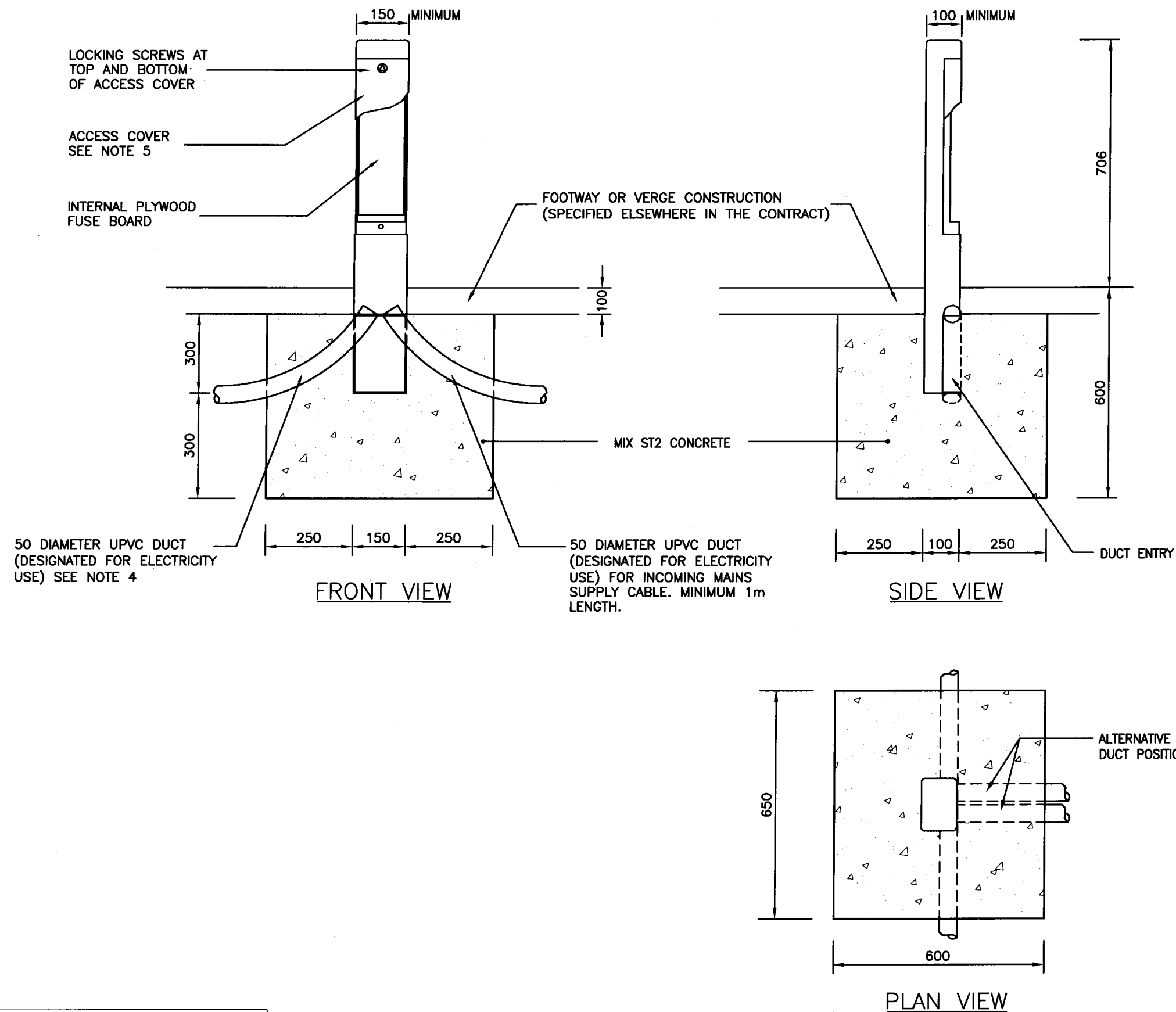
PUFFIN/PELICAN/TOUCAN CROSSING LAYOUT DETAILS

HCC CADplot: 02.Feb.2012 at 10:12am

DRAWN	MT	CHECKED	JAM	SCALE	A3	N.T.S.
CAD	TRK	APPROVED	ARG	DATE	MAY 2007	
DRG No.	HCC9/T/040	REVISION	B			

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NOTES:

1. ALL DIMENSIONS ARE IN MILLIMETRES.
2. THE CASING SHALL BE CONSTRUCTED OF MILD STEEL MINIMUM THICKNESS 3mm AND SHALL HAVE A HOT DIP GALVANISED FINISH.
3. THE ORIENTATION OF THE PILLAR SHALL BE CONFIRMED ON SITE BY THE OVERSEEING ORGANISATION.
4. THE CONTRACTOR SHALL PROVIDE A DUCT (DESIGNED FOR ELECTRICITY USE) BETWEEN THE PILLAR AND THE TRAFFIC SIGNAL CONTROLLER. THE DUCT SHALL BE TAKEN DIRECTLY INTO THE CONTROLLER VIA THE ROOT BASE AND TERMINATED ABOVE GROUND LEVEL.
5. THE ACCESS SHALL BE VIA A SECURE LOCKING REMOVABLE DOOR SEALED TO PREVENT INGRESS OR RAIN AND RESISTANT TO VANDALISATION.

AMENDMENT	DATE	DRAWN	CHKD	APPD
CONSULTANT				
ALISON QUANT BSc MSc MRTP, DIRECTOR OF ENVIRONMENT, THE CASTLE, WINCHESTER.				
SCHEME				
STANDARD DETAILS				
DRAWING TITLE				
POWER SUPPLY PILLAR				
HCC CADplot: 02.Jul.2007 at 11:27am				
DRAWN	MT	CHECKED	JAM	SCALE A3 N.T.S.
CAD	TRK	APPROVED	ARG	DATE MAY 2007
DRG No.	HCC9/T/045			REVISION

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A	NOTES 3 & 5 AMENDED	DEC. 11	MT	<i>AM</i>	<i>RG</i>
AMENDMENT		DATE	DRAWN	CHKD	APPD
CONSULTANT					
 Hampshire County Council		 Engineering CONSULTANCY		 Certificate No. FS 21845	
ALISON QUANT BSc MSc MRTPI, DIRECTOR OF ENVIRONMENT, THE CASTLE, WINCHESTER.					
SCHEME					
STANDARD DETAILS					
DRAWING TITLE					
TRAFFIC SIGNAL DUCT DETAILS					
HCC CAD/plot: 12.Jan.2012 at 1:58pm					
DRAWN MT		CHECKED JAM <i>JAM</i>		SCALE A3 NTS	
CAD DJ		APPROVED ARG <i>ARG</i>		DATE DEC 2008	
DRG No. HCC9/T/055				REVISION A	