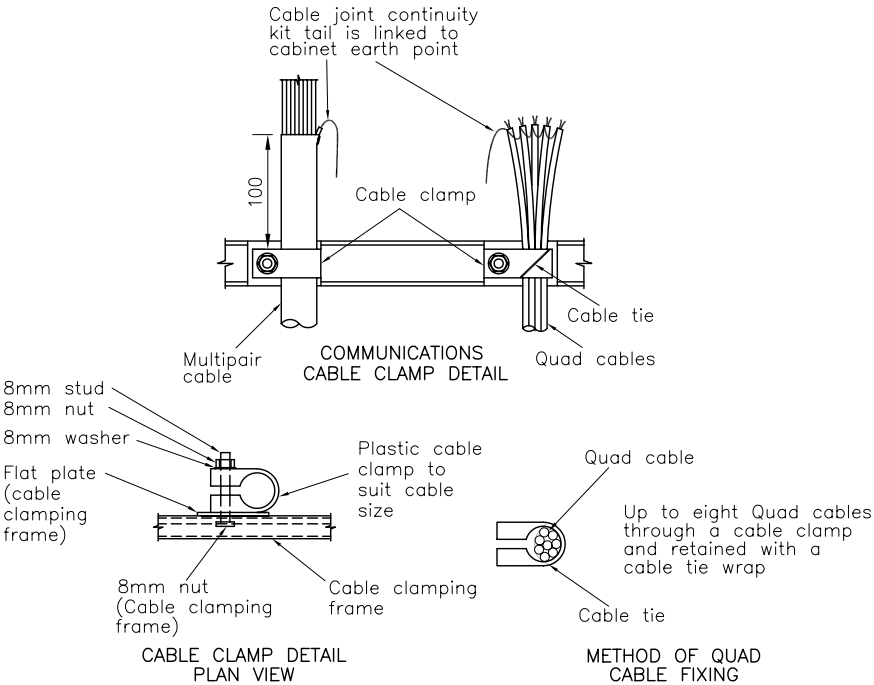
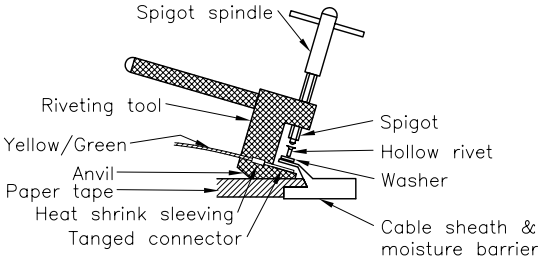


INSTRUCTIONS FOR FITTING 'CABLE JOINT CONTINUITY KIT'

1. Cutting the cable sheath.
- 1.1 40 pair cable.
The sheath will require two vertical cuts 25mm long on opposite sides of the cable, one in the front the other at the rear.
- 1.2 Quad cable.
The sheath will require two vertical cuts 35mm long and separated by a quarter of the circumference.
2. Bend the cable cores downwards, to enable the gap to be generated, then enlarge the gap between the core and sheath carefully by inserting the base of the riveting tool.
3. Place the connector with continuity wire already attached over the anvil of the riveting tool, ensuring that the location tab of the connector fits into the hole of the riveting tool adjacent to the anvil and that the connector spikes are pointing towards the sheath.
4. Insert the riveting tool into the enlarged gap between the core of the cable and the sheath.
5. Place a washer on the hollow rivet and position the rivet on the spigot of the riveting tool.
6. Tighten the spigot spindle down to the extent of its travel.
7. Release the riveting tool and remove.
8. Remove the location tab by carefully bending backwards and forwards.
9. Remove the paper tape and proceed to degrease the cable using an agreed cleansing agent. All traces of petroleum jelly are to be removed without damaging the insulation over the copper. When degreasing the 40 pair cable it is essential to maintain the twist in the pairs and the pairs in their units. Unit 1–Blue, unit 2–Orange, unit 3–Green and unit 4–Brown, by marking them at their ends.
10. Bind the cleaned and completed assembly with self–amalgamating tape.
11. The wire lead shall be used to earth bond the cable to a suitable earth point.



METHOD OF CLAMPING CABLES IN 600 AND 620 CABINETS

1. Cut the cables approximately 1.2m above the base of the cabinet.
2. Temporarily locate cables in their final position.
3. Cut outer sheath 100mm above the clamp and remove leaving the paper tape intact.
4. Proceed to fit the Cable Joint Continuity kit as described on sheet 1.
5. Relocate the cables in their clamps and tighten to secure.
6. Earth leads from the continuity kits are to be taken to a suitable earth point on the cabinet.
7. For location and termination of cables refer to MCX 0832.
8. Terminate external cables on the IDC plate on the underside of the connector.
The 40 pair cable from the CJE Type 15L is terminated on the IDC plate rows H–1 to 10, J–1 to 10, K–1 to 10 and L–1 to 10.
Quad cables from the CJE Type 15L are terminated on row M 1 to 10.
Quad cables from local signals, RS 485 circuits, are terminated on row M 11 to 14.
Quad cables from local telephones are terminated on row K 11 to 14.
Quad cables when used to interlink 600 cabinets for Message Signs and EMI are terminated on row L 11 to 20.
Quad cables from local MIDAS detectors, RS 485 circuits, are terminated on row M 17 to 20.

D	UPDATED TO SUIT MS3 UPGRADE		DWE 8.99
C	TITLE BLOCK UPDATE		DWE 6.97
B	GENERAL UPDATE		MJS 18.12.95
A	INITIAL ISSUE		MJS 18.11.94
ISSUE	AMENDMENTS		APPD/DATE
DRN	R.H.H.	CHKD R.E.S.	SCALE
DATE	12.10.94	DATE 12.10.94	N.T.S.
DRG. NO. MCX 0871			SHT. NO. 1 of 3

F	HA ADDRESS REPLACED BY HIGHWAY CONSTRUCTION DETAILS	DWE 02.06
E	ADDRESS & LOGO REVISED COPYRIGHT NOTICE REMOVED	DWE 02.02
ORIGINAL DRAWING SIZE: 297 x 420		
ALL DIMENSIONS ARE IN MM		
TOLERANCE ±1 UNLESS OTHERWISE STATED		
THIRD ANGLE PROJECTION DO NOT SCALE		

(REV. F)

This drawing was generated on computer and must not be manually updated

HIGHWAY CONSTRUCTION DETAILS

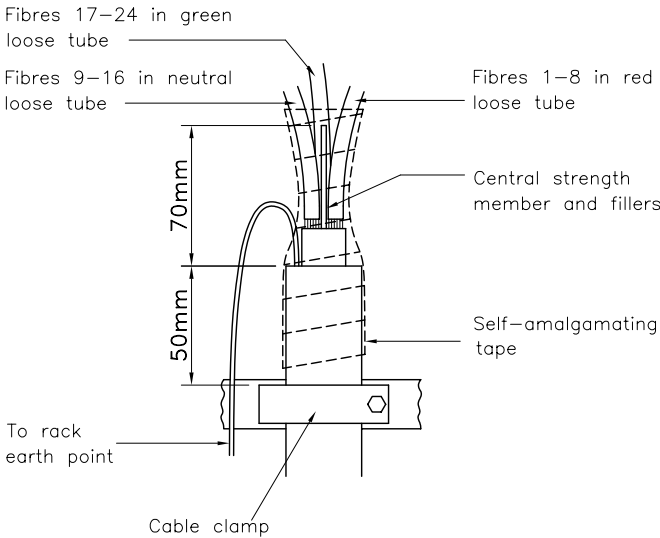
TITLE
INSTALLATION DRAWING NMCS (DUCTED CABLE)
CABLE TERMINATION AND CONTINUITY KIT

CABINET 609 WITH BOX 615, TERMINATION OF MULTI PAIR CABLES MCX 0851				TELEPHONE 611, TERMINATION OF QUAD CABLE MCX 0135.																											
<div>1. Cut the cables approximately 1.2m above the base of the box 615.</div> <div>2. Fit glands so as to locate cables in their final position.</div> <div>3. Mark the outer sheath 60mm above the gland. Extend the cable into the box, cut the outer sheath at the mark and remove leaving the paper tape intact.</div> <div>4. Proceed to fit the Cable Joint Continuity kit as described on sheet 1.</div> <div>5. Apply the protection foil to the cable. Feed the cable through the gland.</div> <div>6. Relocate the cable in the gland and heat shrink the gland to the manufacturers instructions to secure.</div> <div>7. Earth lead from the continuity kits is to be taken to the earth point in the box 615 and the box 615 connected to the cabinet 609 earth point.</div> <div>8. For location and termination of cables refer to MCX 0851.</div>				<div>1. Fit the quad cable into the housing and mark a position where it will be retained.</div> <div>2. Cut the cable approximately 1.2m from where it enters the housing.</div> <div>3. Extend the cable into the housing, cut the outer sheath at the mark and remove leaving the paper tape intact.</div> <div>5. Proceed to fit the Cable Joint Continuity kit as described on sheet 1.</div> <div>6. Relocate the cable in the housing.</div> <div>7. The earth lead from the continuity kit is combined with the earth lead from the protection module.</div> <div>8. For location and termination of cables refer to MCX 0850.</div>																											
MARSHALLING CABINET 600 OR 620, TERMINATION OF MULTI PAIR CABLES MCX 0853 AND MCX 0854				CABINET 2303, TERMINATION OF MULTI PAIR CABLES TRANSMISSION STATIONS MCX 0135																											
<div>1. Cut the cables approximately 2m above the base of the cabinet.</div> <div>2. Temporarily locate cables in their final position.</div> <div>3. Cut outer sheath 100mm above the clamp and remove leaving the paper tape intact.</div> <div>4. Proceed to fit the Cable Joint Continuity kit as described on sheet 1.</div> <div>5. Relocate the cables in their clamps and tighten to secure.</div> <div>6. Earth leads from the continuity kits are to be taken to a suitable earth point on the cabinet.</div> <div>7. For location and termination of cables for marshalling cabinets associated with building transmission stations refer to MCX 0853. For marshalling cabinets at cabinet 617 sites refer to MCX 0854.</div>				<div>1. Run all the required 40 pair cables from the marshalling cabinet into the building labelling them as to their origin.</div> <div>2. Using cable ties, tie the cables together in a bundle from where they enter the building to the base of the right hand vertical trunking to the cabinet 2303 leaving some spare between the entry point and the trunking.</div> <div>3. Cut the cables approximately 3m above the base of the trunking.</div> <div>4. Position the cables in the vertical trunking so that where cables No. 1, No. 2, No. 5 and No. 8, are used, they are on the right.</div> <div>5. Mark all the cables 200mm below the base of the cabinet 2303. Cut each cable outer sheath at the mark and remove leaving the paper tape intact.</div> <div>6. Proceed to fit the Cable Joint Continuity kit as described on sheet 1.</div> <div>7. The earth leads from the continuity kits are to be taken to a suitable earth point in the cabinet 2303.</div> <div>8. For location and termination of cables refer to MCX 0861.</div> <div>9. For vertical 'L' See MCX 0902 for installation of the modified vertical. Using 'Black Expanding Braided Sheathing', sheath the cleaned cable pairs, route the cables to the required vertical as detailed in MCX 0861 and secure at the base of the vertical where the sheath should not project more than 70mm.</div> <div>10. Run the first cable (Cable No. 1) to the top of the vertical securing at intervals and separate the four units of pairs out in preparation for termination.</div> <div>11. Fit a Red IDC Termination Strip to the top of the vertical with the jumper guide at the bottom and terminate unit 1 (Blue) at the top of the strip using the colour code.</div> <div>12. Fit the second Red IDC Termination Strip to the third mounting position down and terminate unit 2 (Orange). Space left between the termination strips is required to enable the 0.9mm conductors to enter the connectors without strain.</div> <div>13. Continue to fit the Red IDC connectors on alternate mounting positions and terminate units 3 (Green) and 4 (Brown).</div> <div>14. Proceed in a similar manner with 40 pair cables No. 2, No. 5 and No. 8.</div> <div>15. The termination of vertical 'J' follows the steps 9 to 14 as for vertical 'L' for cables No. 3, No. 4, No. 6 and No. 7.</div> <div>16. Designation labels shall be fitted to the termination strips and turned through 180 degrees to enable cable identification and usage to be detailed when protection modules are fitted.</div> <div>17. Red IDC Termination Strips shall be fitted to all unused cable locations along with designation labels.</div>																											
CABINET 617, TERMINATION OF MULTI PAIR CABLES MCX 0854																															
<div>1. Fit to suitable holes in the gland plate of the cabinet 617 the required number of heat shrink 40mm cable glands.</div> <div>2. Cut the cables approximately 2.5m above the base of the cabinet 617.</div> <div>3. Feed the cables into the glands so as to locate the cables in their final positions.</div> <div>4. Mark the outer sheath 60mm above the gland. Extend the cable into the cabinet, cut the outer sheath at the mark and remove leaving the paper tape intact.</div> <div>5. Proceed to fit the Cable Joint Continuity kit as described on sheet 1.</div> <div>6. Apply the protection foil to the cable.</div> <div>7. Relocate the cable in the gland and heat shrink the gland to the manufacturers instructions to secure.</div> <div>8. Earth leads from the continuity kits are to be taken to the earth point on the cabinet 617.</div>																															
<div>ⓇⓔⓋ. Ⓟ</div> <div>This drawing was generated on computer and must not be manually updated</div>				<table><tr><td colspan="2"></td><td>C</td><td colspan="2">TITLE BLOCK UPDATED</td><td>DWE 6.97</td></tr><tr><td colspan="2"></td><td>B</td><td colspan="2">GENERAL UPDATE</td><td>MJS 18.12.95</td></tr><tr><td>E</td><td>HA ADDRESS REPLACED BY HIGHWAY CONSTRUCTION DETAILS</td><td>DWE 02.06</td><td>A</td><td colspan="2">INITIAL ISSUE</td></tr><tr><td>D</td><td>ADDRESS & LOGO REVISED COPYRIGHT NOTICE REMOVED</td><td>DWE 02.02</td><td>ISSUE</td><td colspan="2">AMENDMENTS</td></tr></table>						C	TITLE BLOCK UPDATED		DWE 6.97			B	GENERAL UPDATE		MJS 18.12.95	E	HA ADDRESS REPLACED BY HIGHWAY CONSTRUCTION DETAILS	DWE 02.06	A	INITIAL ISSUE		D	ADDRESS & LOGO REVISED COPYRIGHT NOTICE REMOVED	DWE 02.02	ISSUE	AMENDMENTS	
		C	TITLE BLOCK UPDATED		DWE 6.97																										
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D	ADDRESS & LOGO REVISED COPYRIGHT NOTICE REMOVED	DWE 02.02	ISSUE	AMENDMENTS																											
HIGHWAY CONSTRUCTION DETAILS		TITLE		INSTALLATION DRAWING NMCS (DUCTED CABLE) CABLE TERMINATION AND CONTINUITY KIT																											
				ORIGINAL DRAWING SIZE: 297 x 420																											
				ALL DIMENSIONS ARE IN MM																											
				TOLERANCE ± UNLESS OTHERWISE STATED																											
				THIRD ANGLE PROJECTION DO NOT SCALE																											
				DRN R.H.H. DATE 12.10.94																											
				CHKD R.E.S. DATE 12.10.94																											
				SCALE N.T.S.																											
				DRG. NO.																											
				MCX 0871																											
				SHT. NO. 2 of 3																											

CABINET 2303/2304, TERMINATION OF MULTI PAIR CABLES CONTROL OFFICE MCX 0862/0863 OPTICAL DISTRIBUTION FRAME (ODF), TERMINATION OF FIBRE CABLES MCX 0864

- Run all the required 40 pair cables from the marshalling cabinet or the Cable Joint Enclosure (CJE) into the Control Office equipment room where the cabinet 2303/2304 is ocated labelling them as to their origin.
- If the Control Office equipment room has a suspended computer style floor. Using cable ties, tie the cables together in a bundle from where they enter the Control Office equipment room to the base of the right hand vertical trunking to the cabinet 2303 leaving some spare between the entry point and the trunking.
- Position the cables in the vertical trunking on the right.
- Cut the cables approximately 3m above the base of the cabinet 2303 trunking. If entry to the cabinet 2303 is from a different location then a length of 2m of cable shall be required from the base of the 'L' vertical.
- Mark all the cables 200mm below the base of the cabinet 2303.
- If the Control Office equipment room does not have a suspended floor but cables enter from overhead or by use of cable tray ensure that there is sufficient cable to be terminated in the required position as detailed in MCX 0862/0863.
- If the cables are not using the trunking then mark the cables 100mm before they enter the cabinet 2303/2304.
- Cut each cable outer sheath at the mark and remove leaving the paper tape intact.
- Proceed to fit the Cable Joint Continuity kit as described on sheet 1.
- The earth leads from the continuity kits are to be taken to a suitable earth point in the cabinet 2303.
- For location and termination of cables refer to MCX 0862/0863.
- For vertical 'L' See MCX 0902 for installation of the modified vertical. Using 'black expanding braided sheathing', sheath the cleaned cable pairs, route the cables to the required vertical as detailed in MCX 0862/0863 and secure at the base of the vertical where the sheath should not project more than 70mm.
- Run the first cable (Cable No. 1) to the top of the vertical securing at intervals and separate the four units of pairs out and prepare for termination.
- Fit a Red IDC Termination Strip to the top of the vertical with the jumper guide at the bottom and terminate unit 1 (Blue) using the colour code.
- Fit the second Red IDC Termination Strip to the third mounting position down and terminate unit 2 (Orange). Space left between the termination strips is required to enable the 0.9mm conductors to enter the connectors without strain.
- Continue to fit the Red IDC Termination Strips on alternate mounting positions and terminate units 3 (Green) and 4 (Brown).
- Proceed in a similar manner with 40 pair cables No. 2 and No. 3.
- The termination of cables in the cabinet 2304 is at the base of either vertical and follows the similar procedure as for the cabinet 2303 vertical 'L', see notes 12 to 16, cables No. 1 and No. 2 following the cable locations as detailed in MCX 0862/0863.
- Designation labels shall be fitted to the termination strips and turned through 180 degrees to enable cable identification and usage to be detailed when protection modules are fitted.
- Red IDC Termination Strips shall be fitted to all unused cable locations along with designation labels.

- 4 metres of cable, internal to the cabinet is required for the termination process.
- The cable shall be secured with a cable clamp to the horizontal bar within the cable management shelf.
- Mark the sheath at a point 100mm above the clamp.
- Cut each cable outer sheath at the mark and remove leaving the paper tape intact.
- Proceed to fit the Cable Joint Continuity kit as described on sheet 1.
- Terminate the ODF as detailed in MCX 0864.



(REV. B)

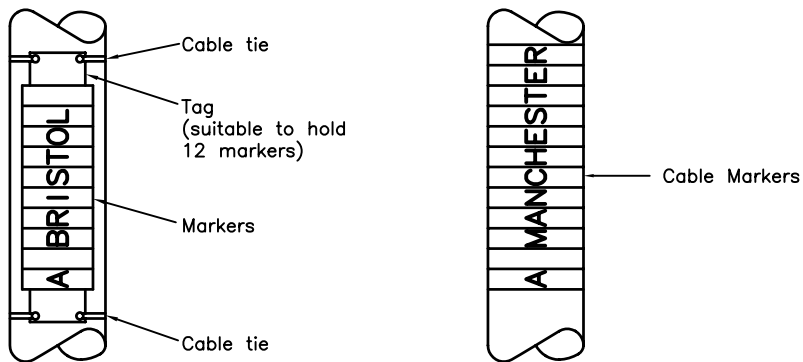
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HIGHWAY CONSTRUCTION DETAILS

TITLE
INSTALLATION DRAWING NMCS (DUCTED CABLE)
CABLE TERMINATION AND CONTINUITY KIT

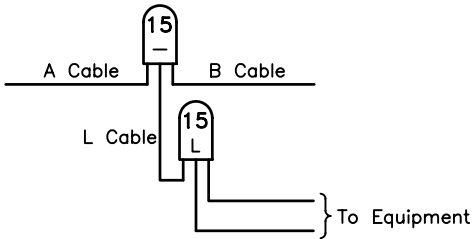
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ALL DIMENSIONS ARE IN MM
TOLERANCE \pm UNLESS OTHERWISE STATED
THIRD ANGLE PROJECTION DO NOT SCALE

E	HA ADDRESS REPLACED BY HIGHWAY CONSTRUCTION DETAILS	DWE 02.06
D	ADDRESS & LOGO REVISED COPYRIGHT NOTICE REMOVED	DWE 02.02
C	TITLE BLOCK UPDATE	DWE 6.97
B	GENERAL UPDATE	MJS 18.12.95
A	INITIAL ISSUE	MJS 18.11.94
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DRN	R.H.H.	CHKD R.E.S.
DATE	12.10.94	DATE 12.10.94
DRG. NO.	MCX 0871	SCALE N.T.S.
		SHT. NO. 3 of 3



Typical Method of Marking Cables

- NOTES
1. All cables shall be clearly and unambiguously marked to show details of cable routes and destinations.
 2. At Cable Joint Enclosures (CJE) the cable shall be marked immediately adjacent to the CJE, over the heat shrink material.
 3. Maximum of 12 letters and/or numerals may be fitted to any cable.
 4. The Overseeing Organisation shall specify cable marker letters and/or numerals to be fitted by the Cabling Contractor.
 5. Cable A low m/w junction
Cable B high m/w junction
Cable L to local joint
 6. Typical examples at CJE Types 15F, 15-1, 2, 3 and 4 are:
a) A LIVERPOOL
b) L CJE 15L 1234A
The first letter is the Cable Allocation letter, see note 5.
 7. Typical examples at CJE Type 15L are:
a) L CJE 151 1234A
b) TELE 1234A
c) RESP 1234A
d) GANTRY 1234A



Cable Allocation
(Note 5)

(REV. B)

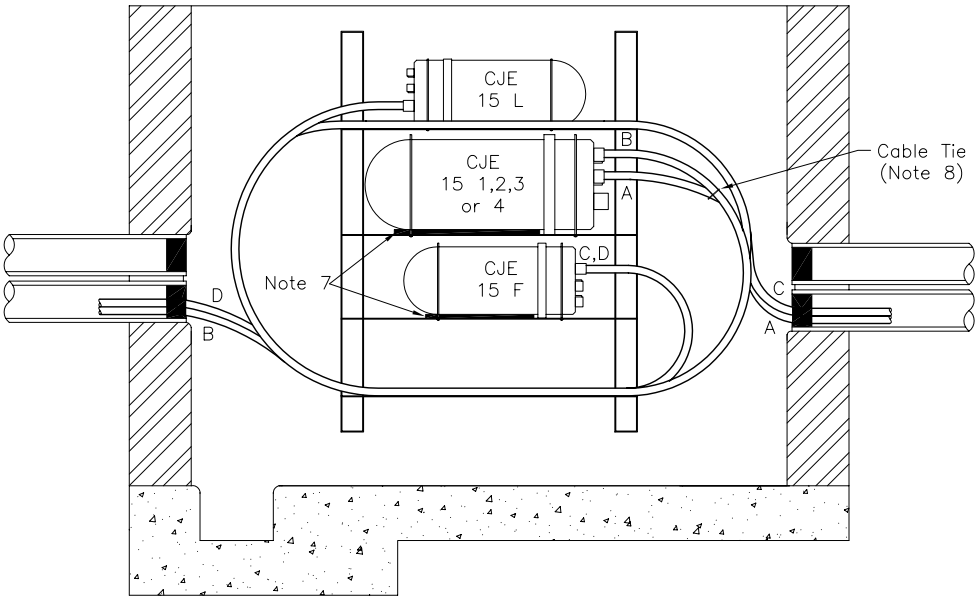
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HIGHWAY CONSTRUCTION DETAILS

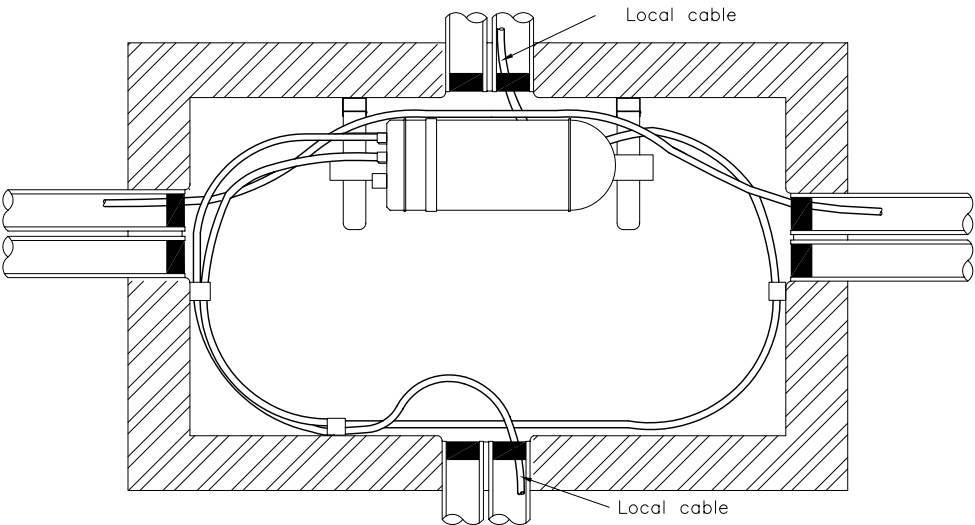
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INSTALLATION DRAWING NMCS (DUCTED CABLE)
CABLE INSTALLATION
CABLE MARKING

ORIGINAL DRAWING SIZE: 297 x 420
ALL DIMENSIONS ARE IN MM
TOLERANCE ± 1 UNLESS OTHERWISE STATED
THIRD ANGLE PROJECTION DO NOT SCALE

E	HA ADDRESS REPLACED BY HCD NOTES 6 & 7 REV. NOTE 8 DEL.	DWE 02.06
D	NOTE 4 REVISED	DWE 01/02
C	TITLE BLOCK UPDATE	DWE 6.97
B	GENERAL UPDATE	MJS 18.12.95
A	INITIAL ISSUE	MJS 18.11.94
ISSUE	AMENDMENTS	APPD/DATE
DRN	R.H.H.	CHKD R.E.S.
DATE	12.10.94	DATE 12.10.94
DRG. NO.	MCX 0872	SHT. NO. 1 of 1



FRONT ELEVATION



PLAN VIEW

(Typical Management of Local cables)

NOTES

1. Cable and Cable Joint Enclosures (CJE) shall be installed in jointing chambers (MCX 0815 sheet 1, Type A) as shown. Jointing chambers are provided with supports as shown on drawing MCX 0815 Sheet 2.
2. The situations shown are typical. Where the actual cabling arrangement differs, the principles shown including the securing of CJE's, and cable, shall be adhered to. Where CJE's are mounted vertically, they shall be secured using proprietary made brackets.
3. The number of loops required inside the chamber are as follows:

Type of cable	No of Loops
40 pair Cable	
A	3
B	2
Fibre Cable	
C	3
D	2

4. Longitudinal cables have been omitted from the plan view for clarity. Local cables have also been omitted from the front elevation for clarity.
5. The method of securing cables to the chamber wall is to be agreed with the Overseeing Organisation. Cable tray or cable bearing clips of the re-enterable type may be used.
6. Minimum bending radii of the cables (12xdiameter) shall be adhered to.
7. CJE's shall be secured to supports using cable ties. CJE's shall be laid on a pad of neoprene or similar flexible material to ensure that they lay horizontally.
8. Where two or more cables are installed into a CJE they shall be bound securely together for a length of 500mm using cable ties at 150mm (max) intervals.

F	HA ADDRESS REPLACED BY HIGHWAY CONSTRUCTION DETAILS	DWE 02.06
E	AMENDED TO SUIT CONTRACT No. 1/72	BEO 24.1.01
D	NOTES AMENDED	DWE 6.97
C	GENERAL UPDATE	MJS 18.12.95
B	NOTE ADDED TO LONGITUDINAL DUCT	MJS 21.12.94
A	INITIAL ISSUE	MJS 18.11.94
ISSUE	AMENDMENTS	APPD/DATE
DRN	R.H.H.	CHKD R.E.S.
DATE	12.10.94	DATE 12.10.94
DRG. NO.	MCX 0873	SHT. NO. 1 of 2

(REV. F)

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HIGHWAY CONSTRUCTION DETAILS

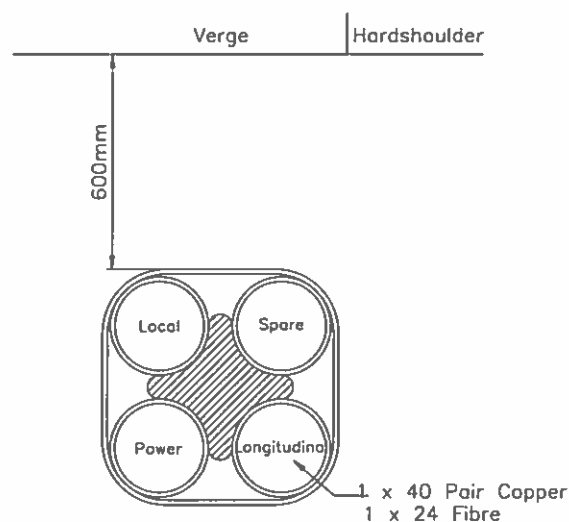
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INSTALLATION DRAWING NMCS (DUCTED CABLE)
CABLE MANAGEMENT
JOINT CHAMBER

ORIGINAL DRAWING SIZE: 297 x 420
ALL DIMENSIONS ARE IN MM
TOLERANCE ± UNLESS OTHERWISE STATED
THIRD ANGLE PROJECTION DO NOT SCALE

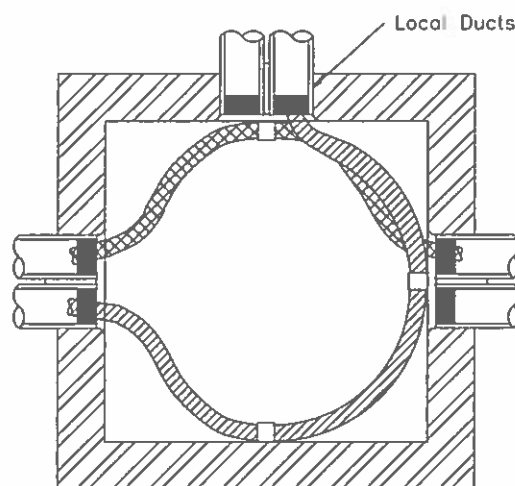
NOTES

1. Cables shall be installed in chambers as shown on these details. The situations shown are typical. Where the actual cabling arrangement differs the principle shown shall be adhered to.
2. The method of securing cables to the chamber wall is to be agreed with the Overseeing Organisation. Cable tray or cable bearing clips of the re-enterable type may be used.
3. Minimum bending radii of the cables shall be adhered to. (12 x diameter)
4. Cables shall only be installed into the duct allocated. The orientation of ducts shall be maintained throughout.

REV. C



SECTION THROUGH
LONGITUDINAL
DUCT ARRANGEMENT
(Note 4)



CABLE MANAGEMENT IN
TYPE 'B' AND 'C' CHAMBERS
PLAN VIEW

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HA HIGHWAYS
AGENCY
TRAFFIC SYSTEMS & SIGNING
TEMPLE QUAY HOUSE
2 THE SQUARE, TEMPLE QUAY
BRISTOL BS1 6HA

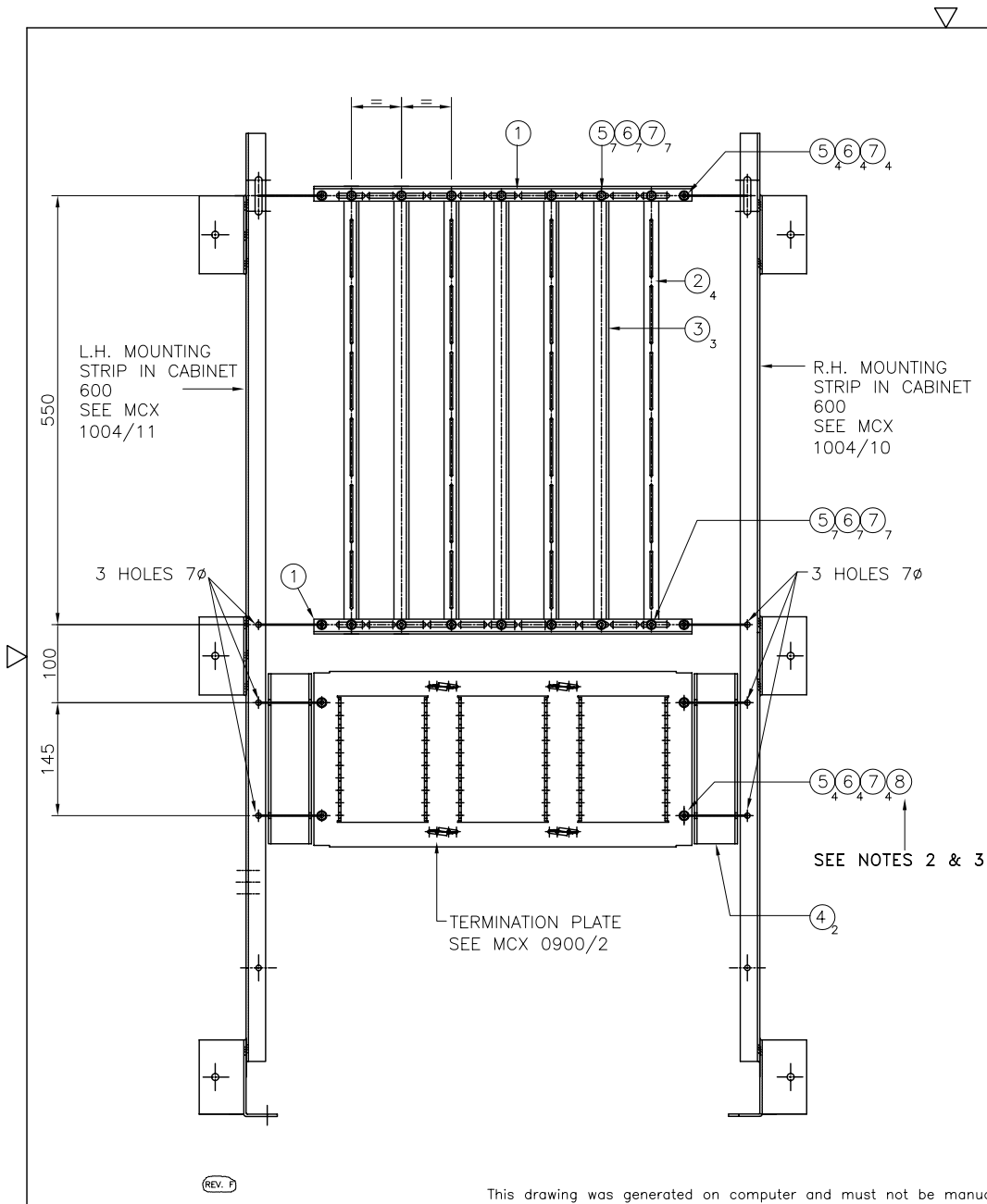


TITLE
INSTALLATION DRAWING NMCS (DUCTED CABLE)
CABLE MANAGEMENT
DETAILS

ORIGINAL DRAWING SIZE: 297 x 420
ALL DIMENSIONS ARE IN MM
TOLERANCE ± 1 UNLESS OTHERWISE STATED
THIRD ANGLE PROJECTION DO NOT SCALE

C	NOTE 2 REVISED	DWE 01/02
B	TITLE BLOCK UPDATE	DWE 6.97
A	INITIAL ISSUE	WJS/18.12.95
ISSUE	AMENDMENTS	APPD/DATE
DRN	R.H.H.	CHKD R.E.S.
DATE	12.10.94	DATE 12.10.94
DRG. NO.	MCX 0873	SHT. NO.
		2 of 2

MCX 0874 – 0898
NOT USED



NOTES

1. THIS DRAWING DETAILS THE MODIFICATIONS REQUIRED TO A 'DIRECT BURIED CABLE NETWORK' STYLE TERMINATION FRAME TO ENABLE IT TO BE USED IN A DUCTED CABLE NETWORK.
2. FITTING OF CABINET 600 MODIFIED TERMINATION FRAME:
 - i REMOVE THE TERMINATION FRAME FITTED TO THE CABINET 600.
 - ii ON THE MOUNTING STRIPS (SEE MCX 1004/10 & 11) TO WHICH THE FRAME WAS ATTACHED MARK THE FOLLOWING DIMENSION FOR DRILLING:
FROM THE INSIDE FACE ON EITHER SIDE 9mm
FROM THE BASE OF THE SLOT ON EITHER SIDE 530mm, 630mm AND 775mm
 - iii DRILL 6 OFF 7mm HOLES AND DEBUR
 - iv FIT THE TWO CHANNELS (ITEM 4) TO THE INSIDE OF THE CABINET TO THE LOWER TWO HOLES. THE TERMINATION PLATE CAN NOW BE MOUNTED IN PLACE.
 - v ASSEMBLE THE BAR AND ANGLES (ITEMS 1, 2 & 3) TO FORM THE FRAME AND FIT TERMINATION CONNECTORS TO THE LOCATIONS WHERE THEY ARE REQUIRED. FIT THE ASSEMBLED FRAME TO THE CABINET.
3. IF THE TERMINATION PLATE IS OF DISSIMILAR METAL USE ITEM 8 TO SUPPORT.

PARTS LIST

ITEM	QTY	DESCRIPTION	REF MCX
1	2	HORIZONTAL BAR	1004/9 (Item 55)
2	4	19x19x3.18 ANGLE	0900/1 Detail C
3	3	19x19x3.18 ANGLE	0900/1 Detail B
4	2	55x20 CHANNEL	0900/1 Detail A
5	26	M6 x 16 HEX HEAD BOLTS	0900/1
6	26	M6 HEX HEAD NUTS	0900/1
7	26	M6 WASHERS ALUMINIUM	0900/1
8	1	M6 WASHERS (FIBRE/NYLON)	0900/1

F	HA ADDRESS REPLACED BY HIGHWAY CONSTRUCTION DETAILS	DWE 02.06
E	GENERALLY UPDATED TO SUIT MCX 0900	DWE 01/02
D	NOTE REVISED	DWE 8/89
C	GENERAL UPDATE	DWE 6/97
B	GENERAL UPDATE	MJS 18.12.95
A	INITIAL ISSUE	MJS 18.11.94
ISSUE	AMENDMENTS	APPD/DATE
DRN RHH	CHKD RES	SCALE
DATE 12.10.94	DATE 12.10.94	NTS
DRG. NO.	MCX 0899	SHT. NO.
		1 of 1

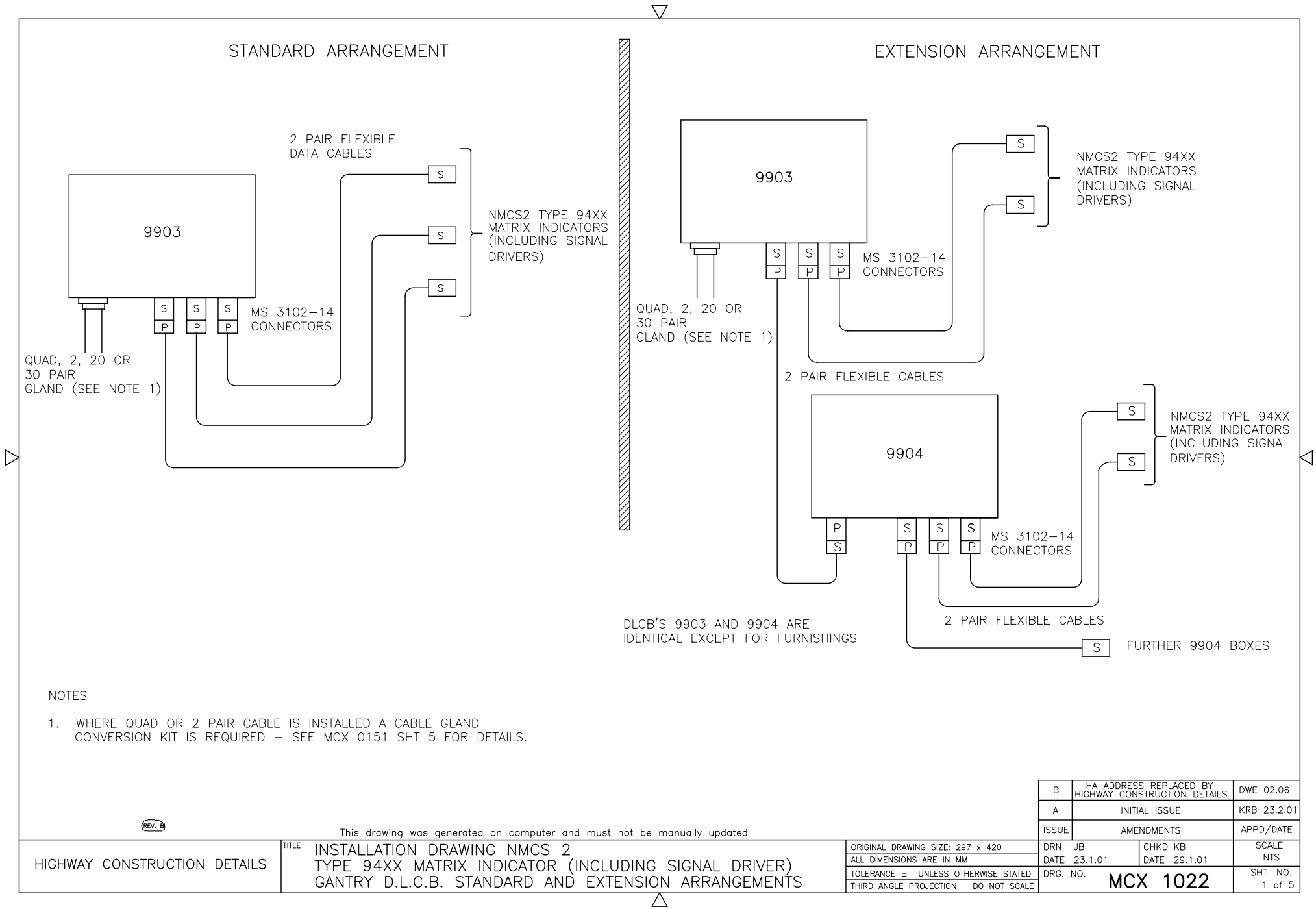
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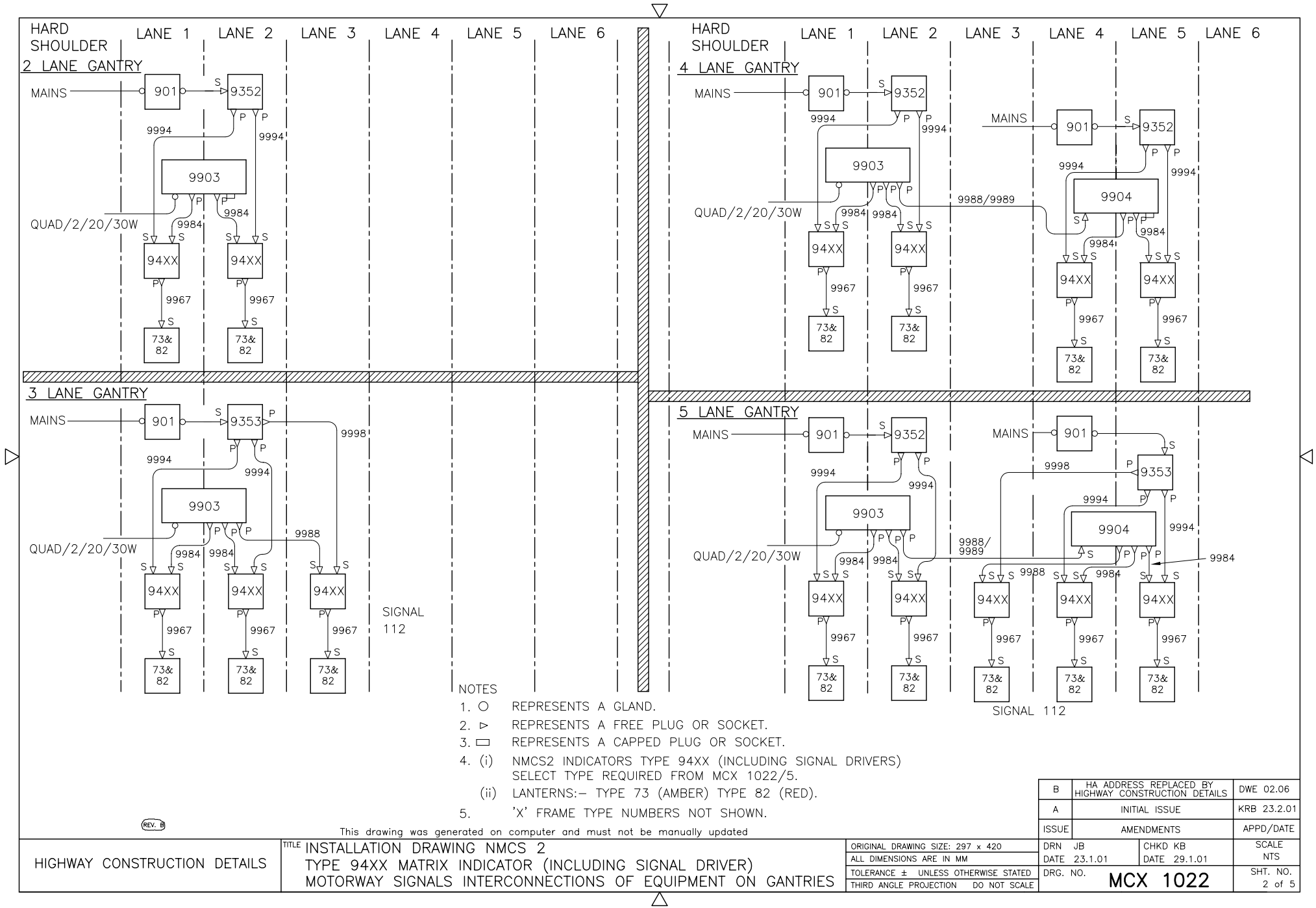
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INSTALLATION DRAWING NMCS (DUCTED CABLE)
MODIFICATION TO TERMINATION FRAME IN CABINET 600

ORIGINAL DRAWING SIZE: 297 x 420
ALL DIMENSIONS ARE IN MM
TOLERANCE ± 1 UNLESS OTHERWISE STATED
THIRD ANGLE PROJECTION DO NOT SCALE

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MCX 0900 – 1021
NOT USED





HARD
SHOULDER

LANE 1

LANE 2

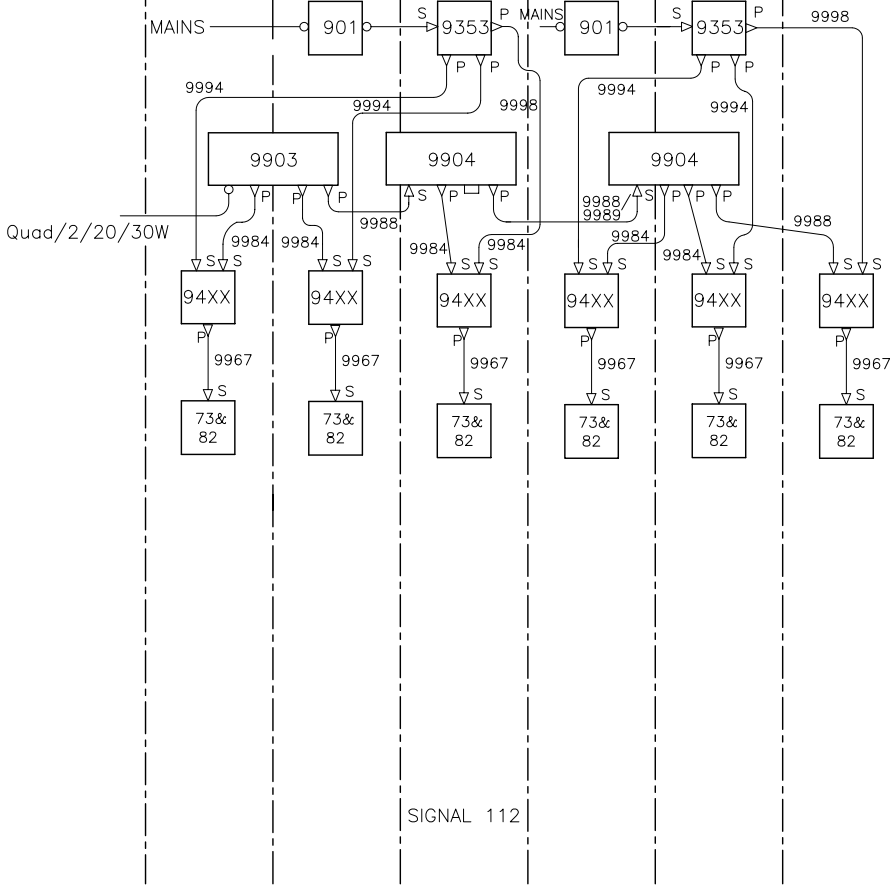
LANE 3

LANE 4

LANE 5

LANE 6

6 LANE GANTRY



- NOTES
1. ○ REPRESENTS A GLAND.
 2. ▷ REPRESENTS A FREE PLUG OR SOCKET.
 3. □ REPRESENTS A CAPPED PLUG OR SOCKET.
 4. (i) NMCS2 INDICATORS TYPE 94XX (INCLUDING SIGNAL DRIVERS)
SELECT TYPE REQUIRED FROM MCX 1022/5
(ii) LANTERNS:- TYPE 73 (AMBER) TYPE 82 (RED)
 5. 'X' FRAME TYPE NUMBERS NOT SHOWN.

(REV. B)

This drawing was generated on computer and must not be manually updated

HIGHWAY CONSTRUCTION DETAILS

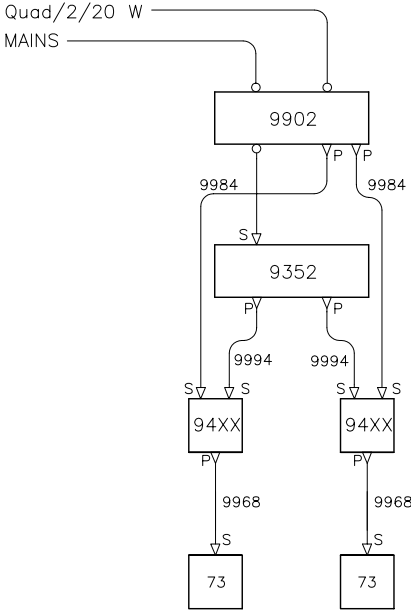
TITLE INSTALLATION DRAWING NMCS 2
TYPE 94XX MATRIX INDICATOR (INCLUDING SIGNAL DRIVER)
MOTORWAY SIGNALS INTERCONNECTIONS OF EQUIPMENT ON GANTRIES

ORIGINAL DRAWING SIZE: 297 x 420
ALL DIMENSIONS ARE IN MM
TOLERANCE ± UNLESS OTHERWISE STATED
THIRD ANGLE PROJECTION DO NOT SCALE

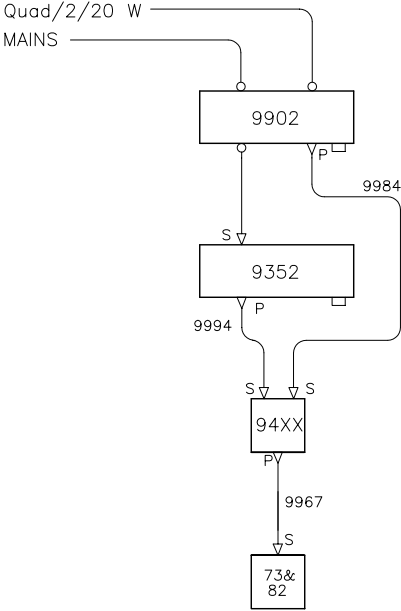
B	HA ADDRESS REPLACED BY HIGHWAY CONSTRUCTION DETAILS	DWE 02.06
A	INITIAL ISSUE	KRB 23.2.01
ISSUE	AMENDMENTS	APPD/DATE
DRN JB	CHKD KB	SCALE
DATE 23.1.01	DATE 29.1.01	NTS
DRG. NO.	MCX 1022	SHT. NO. 3 of 5

DUAL POST – TYPICALLY CENTRAL RESERVATION
AMBER LANTERNS ONLY

SINGLE POST – TYPICALLY SLIP ROAD
RED AND AMBER LANTERNS



SIGNAL 111



SIGNAL 113

- NOTES
1. ○ REPRESENTS A GLAND.
 2. ▽ REPRESENTS A FREE PLUG OR SOCKET.
 3. □ REPRESENTS A CAPPED PLUG OR SOCKET.
 4. ON SINGLE POST AMBER LANTERN ONLY INSTALLATIONS OMIT 1 EACH OF 94XX/73 AND 9994/9984.
 5. (i) NMCS2 INDICATORS TYPE 94XX (INCLUDING SIGNAL DRIVERS) SELECT TYPE REQUIRED FROM MCX 1022/5.
(ii) LANTERNS:– TYPE 73 (AMBER) TYPE 82 (RED).
 6. 'X' FRAME TYPE NUMBERS NOT SHOWN.

(REV. 5)












































This drawing was generated on computer and must not be manually updated

HIGHWAY CONSTRUCTION DETAILS

TITLE
INSTALLATION DRAWING NMCS 2
TYPE 94XX MATRIX INDICATOR (INCLUDING SIGNAL DRIVER)
MOTORWAY SIGNAL INTERCONNECTIONS OF EQUIPMENT ON RURAL SITES

ORIGINAL DRAWING SIZE: 297 x 420
ALL DIMENSIONS ARE IN MM
TOLERANCE ± UNLESS OTHERWISE STATED
THIRD ANGLE PROJECTION DO NOT SCALE

C	HA ADDRESS REPLACED BY HIGHWAY CONSTRUCTION DETAILS	DWE 02.06
B	TITLES AND NOTE No.4 REVISED	KRB 20.3.01
A	INITIAL ISSUE	KRB 23.2.01
ISSUE	AMENDMENTS	APPD/DATE
DRN	JB	CHKD KB
DATE	23.1.01	DATE 29.1.01
DRG. NO.	MCX 1022	SHT. NO. 4 of 5







































































ASPECT	LEGENDS			
	No.	9407	9409	9421
0		G10(OFF)	G10(OFF)	G10(OFF)
1		G7 ()	G8 ()	C6 ⁵ ()
2		D1 ()	D1 ()	B9 ()
3		A2 ()	A2 ()	A2 ()
4		A3 ()	A3 ()	A3 ()
5		A4 ()	A4 ()	A4 ()
6		A5 ()	A5 ()	A5 ()
7		A6 ()	A6 ()	A6 ()
8		A7 ()	A7 ()	A7 ()
9		G3 ()	G1 ()	B4 ()
10		G5 ()		B6 ()
11		G6 ()		B10 ()
12		G4 ()	G2 ()	D1 ()
13		A8 ()	A8 ()	C4 ⁴ ()
14		D4 ()	D4 ()	D4 ()
15		D3 ()	D3 ()	D3 ()

GENERAL NOTES

1.
- THE DETAILS OF EACH LEGEND ARE ON MCX 0026,
AND GRAPHICALLY ON MCX 0348.
2.
- THESE INDICATORS ARE SPECIFIED IN TR 2199.
3.
- ASPECTS FOR INDICATORS IN THE 44X SERIES ARE
SPECIFIED ELSEWHERE.

NOTES REFERRED TO IN THIS DRAWING

4.
- SUFFIX 'G' TO BE TYPE No. USED IF ASPECT C4
IS TO BE GREEN.
5.
- LEGEND C6 TO BE RED.

	1	2	3	4	5	6	7	8	9	10
A										
B										
C										
D										
E										
F										
G										 (OFF)

(REV. B)

This drawing was generated on computer and must not be manually updated

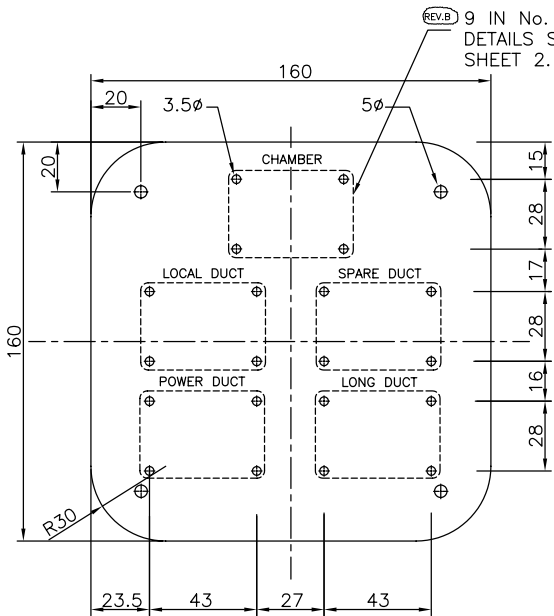
HIGHWAY CONSTRUCTION DETAILS

TITLE
INSTALLATION DRAWING NMCS 2
TYPE 94XX MATRIX INDICATORS (INCLUDING SIGNAL DRIVERS)
ASPECTS

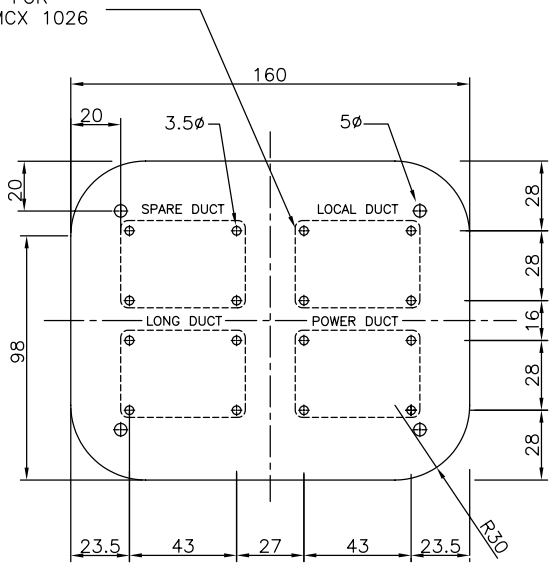
ORIGINAL DRAWING SIZE: 297 x 420
ALL DIMENSIONS ARE IN MM
TOLERANCE ± UNLESS OTHERWISE STATED
THIRD ANGLE PROJECTION DO NOT SCALE

B	HA ADDRESS REPLACED BY HIGHWAY CONSTRUCTION DETAILS		DWE 02.06
A	INITIAL ISSUE		KRB 23.2.01
ISSUE	AMENDMENTS		APPD/DATE
DRN	JB	CHKD	KB
DATE	23.1.01	DATE	29.1.01
DRG. NO.	MCX 1022		SCALE NTS
			SHT. NO. 5 of 5

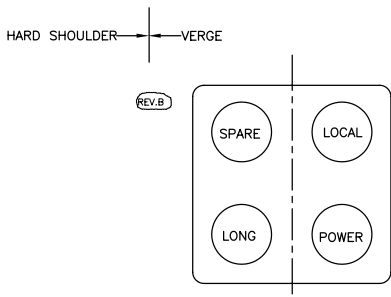
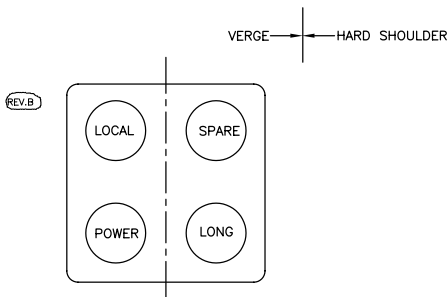
MCX 1023 – 1025
NOT USED



REV.B DOWNSTREAM
CHAMBER MOUNTING PLATE

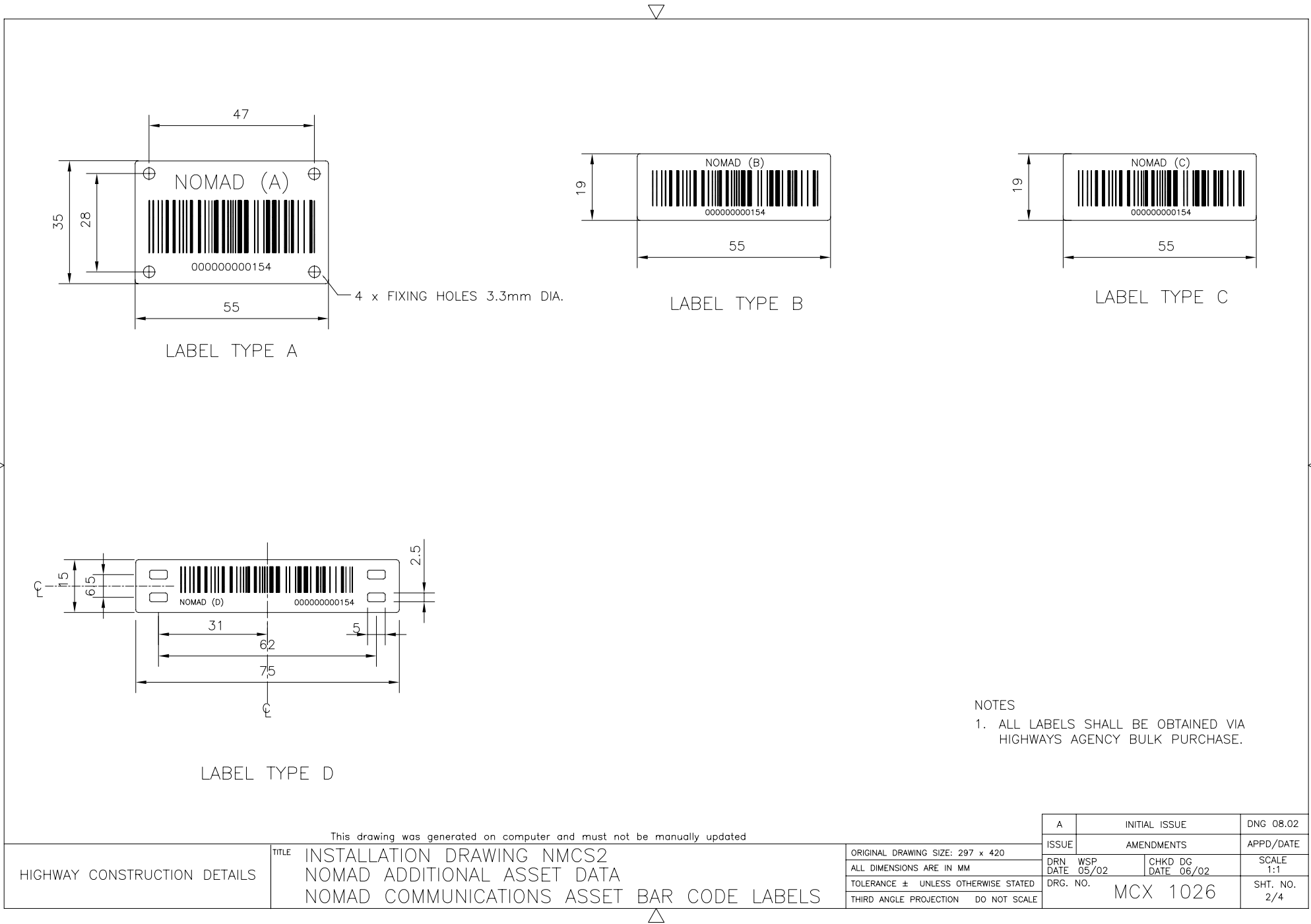


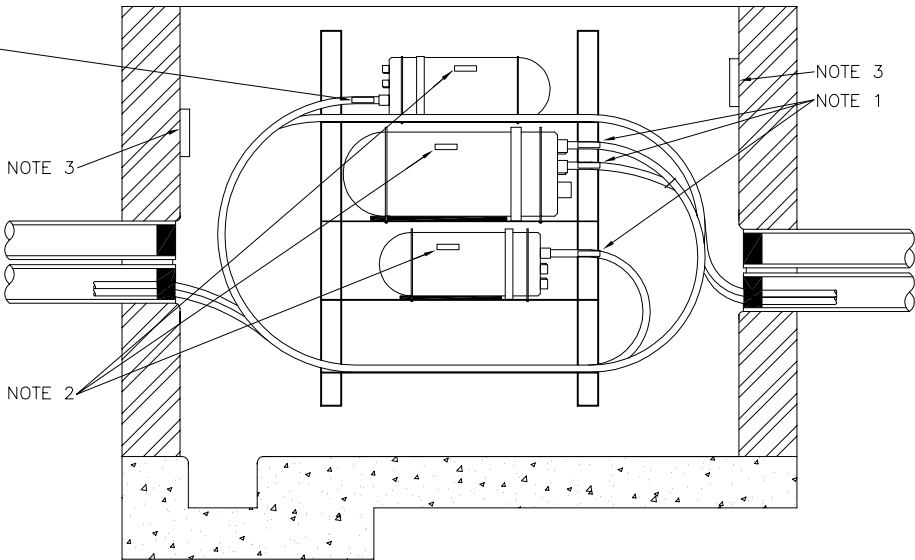
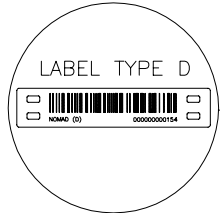
REV.B UPSTREAM CHAMBER
MOUNTING PLATE



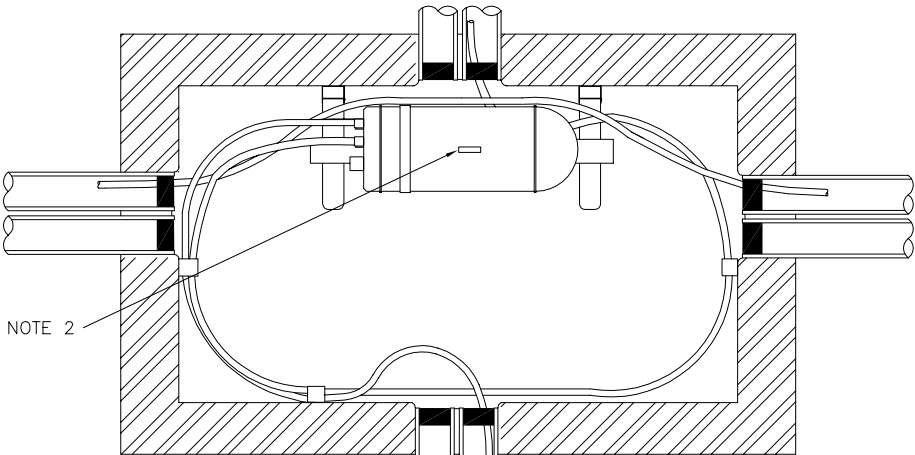
- NOTES
1. MATERIAL OF MOUNTING PLATE TO BE 3 mm THICK ALUMINIUM.
 2. APPLICATION PROCEDURE:
 - a) REMOVE OIL, GREASE AND DIRT FROM APPLICATION SURFACE WITH A SOLVENT, WIPE WITH METHYLATED SPIRITS OR M.E.K.
 - b) REMOVE SHEET BACKING, GENTLY POSITION AND FIX FIRMLY.
 - c) FIX LABEL IN POSITION USING 3.2mm ALUMINIUM POP RIVETS IN THE PRE-DRILLED LOCATIONS.
 3. ALL TEXT ON MOUNTING PLATES ARE PRESSED DURING PRODUCTION. FONT USED SHALL BE NO LESS THAN 5mm IN HEIGHT.
 4. ATTACH MOUNTING PLATES TO DUCT CHAMBER AT POSITIONS AS SHOWN ON DRAWING MCX 1026 SHEET 3.
 5. ORIENTATION OF MOUNTING PLATES IN DUCT CHAMBER TO BE CONSISTENT WITH DRAWING MCX 0873 SHEET 2.
 6. AS WEATHER CONDITIONS PERMIT, THE USE OF RIVETS IS AT THE DISCRETION OF THE CONTRACTOR.

B	NOTES 1 AND 4 AND GENERAL UPDATE		DWE 05.06
A	INITIAL ISSUE		NRB 08.02
ISSUE	AMENDMENTS		APPD/DATE
DRN DATE	WSP 05/02	CHKD DG DATE 06/02	SCALE 1:2
DRG. NO. MCX 1026			SHT. NO. 1 of 4





FRONT ELEVATION



PLAN VIEW

- NOTES
- 1. NOMAD COMMUNICATIONS ASSET BAR CODE LABEL TYPE D TO BE AFFIXED TO CABLES WITH CABLE TIES.
 - 2. NOMAD COMMUNICATIONS ASSET BAR CODE LABEL TYPE C TO BE AFFIXED TO EACH CJE IN AN ACCESSIBLE LOCATION.
 - 3. NOMAD DUCT BAR CODE MOUNTING PLATE (SEE DRAWING MCX 1026 SHEET 1) TO BE MOUNTED CENTRALLY 450mm ABOVE LONGITUDINAL DUCTS.

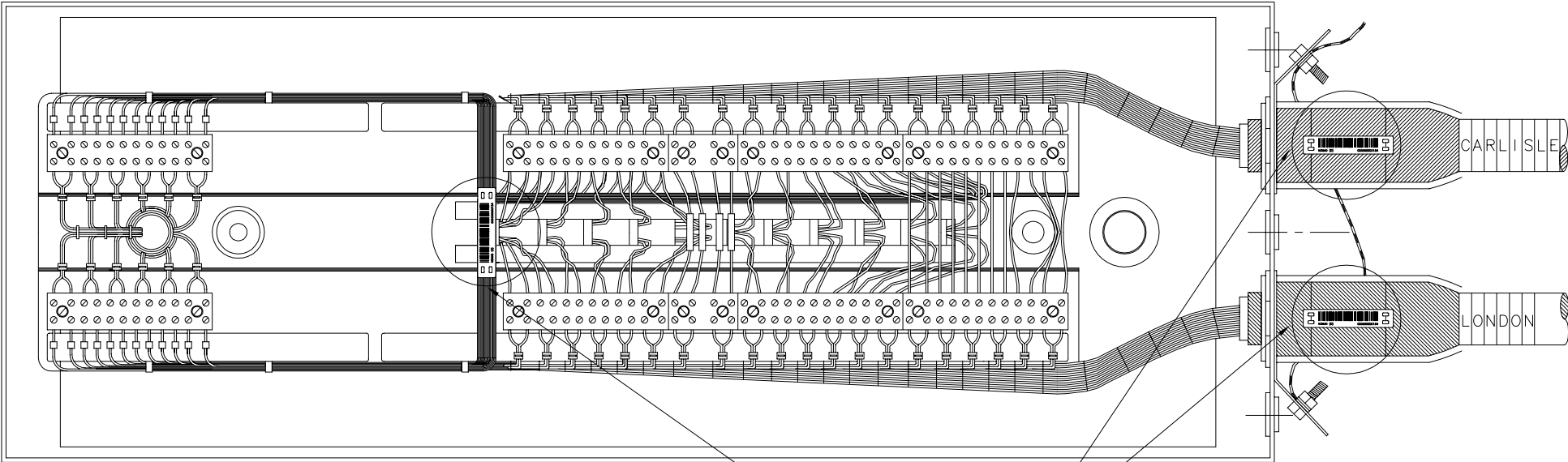
This drawing was generated on computer and must not be manually updated

HIGHWAY CONSTRUCTION DETAILS

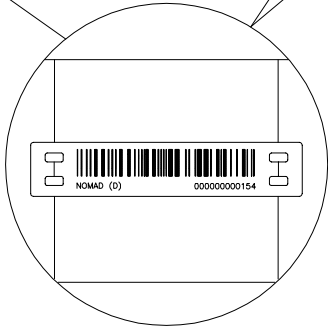
TITLE
INSTALLATION DRAWING NMCS2
NOMAD ADDITIONAL ASSET DATA
NOMAD LABELS PLACEMENT IN TYPICAL JOINT CHAMBER

ORIGINAL DRAWING SIZE: 297 x 420
ALL DIMENSIONS ARE IN MM
TOLERANCE ± 1 UNLESS OTHERWISE STATED
THIRD ANGLE PROJECTION DO NOT SCALE

A	INITIAL ISSUE	DNG 08.02
ISSUE	AMENDMENTS	APPD/DATE
DRN WSP	CHKD DG	SCALE
DATE 05/02	DATE 06/02	NTS
DRG. NO.	MCX 1026	SHT. NO.
		3/4



NOTES
1 NOMAD COMMUNICATIONS ASSET
BAR CODE LABEL TYPE D TO BE
AFFIXED TO CABLES WITH CABLE TIES.



LABEL D

This drawing was generated on computer and must not be manually updated

HIGHWAY CONSTRUCTION DETAILS	TITLE	INSTALLATION DRAWING NMCS2 NOMAD ADDITIONAL ASSET DATA NOMAD LABELS PLACEMENT IN TYPICAL BOX 615	ORIGINAL DRAWING SIZE: 297 x 420		A	INITIAL ISSUE	DNG 08.02
			ALL DIMENSIONS ARE IN MM		ISSUE	AMENDMENTS	APPD/DATE
			TOLERANCE ± UNLESS OTHERWISE STATED		DRN WSP DATE 05/02	CHKD DG DATE 06/02	SCALE NTS
			THIRD ANGLE PROJECTION DO NOT SCALE		DRG. NO. MCX 1026		SHT. NO. 4/4

MCX 1027 – 1029
NOT USED



CABLE PAIR ALLOCATION FOR UNARMOURED COPPER ABOVE GROUND CABLE JOINT

1. GENERAL
- 1.1 This drawing describes the steps to be followed for the installation and fitting out of Type 16-1/16-5 joints in cabinets 609.
2. TYPES OF UNARMOURED COPPER ABOVE GROUND JOINT
- | Type | Description |
|------|--|
| 16-1 | Unloaded |
| 16-2 | 22mH Loading data pairs |
| 16-3 | 88mH Loading telephone pairs |
| 16-4 | 22mH Loading data + telephone pairs |
| 16-5 | 22mH Loading data pairs + 88mH loading telephone pairs |
| 16-L | Local side |
3. LOADING – 2-WIRE SYSTEM
- 3.1 Where 1200 2 wire telephones are used joints are arranged in the following pattern:
- TS – 16-2 – 16-3 – 16-2 – 16-1 – 16-2 – 16-3 – ..
4. LOADING – 4-WIRE SYSTEM
- 4.1 Where 600 4 wire telephones are used joints are arranged in the following pattern:
- TS – 16-4 – 16-1 – 16-4 – 16-1 – 16-4 – 16-1 – ..
5. BUILDING OUT
- 5.1 Build out capacitors may be installed into joints where required by the scheme design.
6. LOCAL JOINT
- 6.1 Where required a local joint enclosure can be attached to the transmission side joint enclosure.
7. TYPE 15 RSI AND T CJE's
- These type 15 joints will continue to be used.
8. For signals, telephones and MIDAS symbols, see MCX 0131 Sheets 1 and 2.

REV.B

CABLE PAIR NO.	LOADING	TYPE 16 JOINT CABLE PAIR ALLOCATION
1	22	SIGNALS HDLC CONTROL
2	22	SIGNALS HDLC REPLY
3		SIGNALS RS 485
4	22	EMS STANDALONE CONTROL
5	22	EMS STANDALONE REPLY
6	22	MIDAS HDLC CONTROL
7	22	MIDAS HDLC REPLY
8		MIDAS RS485 (MT to MD)
9		MIDAS RS485 (MIU to MT)
10		EMS RS 485
11	22	CCTV HDLC CONTROL
12	22	CCTV HDLC REPLY
13		CCTV RS485
14		CCTV RS485
15	22	ENGINEERS AUDIO
16	22	ENGINEERS AUDIO
17	22	TELEMETRY
18	22	TELEMETRY
19		SPARE
20		SPARE
21	88 / (22)*	TELEPHONE L1 2W / L1 4W TX
22	88 / (22)*	TELEPHONE L2 2W / L1 4W RX
23	88 / (22)*	TELEPHONE L3 2W / L2 4W TX
24	88 / (22)*	TELEPHONE L4 2W / L2 4W RX
25	88 / (22)*	TELEPHONE L5 2W / L3 4W TX
26	88 / (22)*	TELEPHONE L6 2W / L3 4W RX
27	22	TELEPHONE L4 4W TX
28	22	TELEPHONE L4 4W RX
29	22	TELEPHONE L5 4W TX
30	22	TELEPHONE L5 4W RX
31	22	TELEPHONE L6 4W TX
32	22	TELEPHONE L6 4W RX
33		REMOTE TELEPHONES/LOCAL
34		REMOTE TELEPHONES/LOCAL
35		REMOTE TELEPHONES/LOCAL
36		REMOTE TELEPHONES/LOCAL
37		REMOTE TELEPHONES/LOCAL
38		REMOTE TELEPHONES/LOCAL
39		REMOTE TELEPHONES/LOCAL
40		REMOTE TELEPHONES/LOCAL

88 / (22)* 22mH loading for 4 wire telephone circuits

This drawing was generated on computer and must not be manually updated

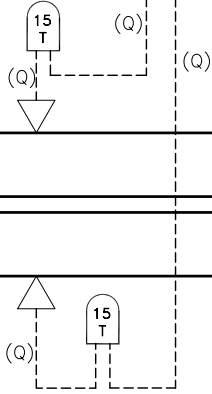
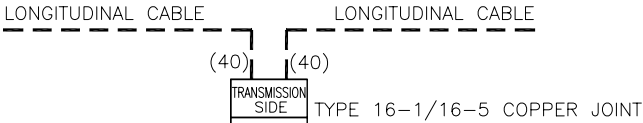
HIGHWAY CONSTRUCTION DETAILS	TITLE INSTALLATION DRAWING UNARMoured COPPER ABOVE GROUND CABLE JOINT GENERAL NOTES AND CABLE PAIR ALLOCATION	ORIGINAL DRAWING SIZE: 297 x 420		DRN	CL	CHKD	MB	SCALE
		ALL DIMENSIONS ARE IN MM		DATE	APRIL 04	DATE	APRIL 04	NTS
		TOLERANCE ± UNLESS OTHERWISE STATED		DRG. NO. MCX 1030				SHT. NO.
		THIRD ANGLE PROJECTION DO NOT SCALE						1/18

B	NEW SHEETS ADDED TO SET	MB 07/05
A	INITIAL ISSUE	MB 04/04
ISSUE	AMENDMENTS	APPD/DATE
DRG. NO.	MCX 1030	

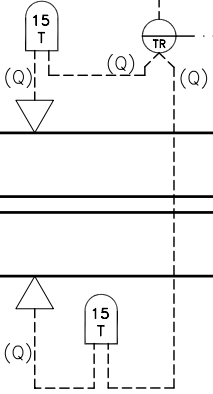
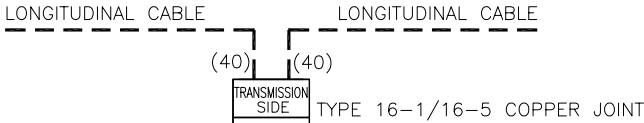
REV.B



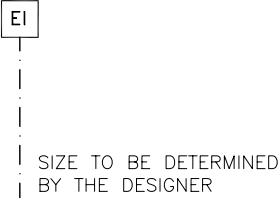
- NOTES
- 1. MAXIMUM DISTANCE FROM TELEPHONE RESPONDER TO TELEPHONE SHALL NOT EXCEED 250m.
 - 2. REFER TO MCX 0131 FOR KEY TO SYMBOLS.



TELEPHONE ONLY SITE



TELEPHONE RESPONDER SITE



This drawing was generated on computer and must not be manually updated

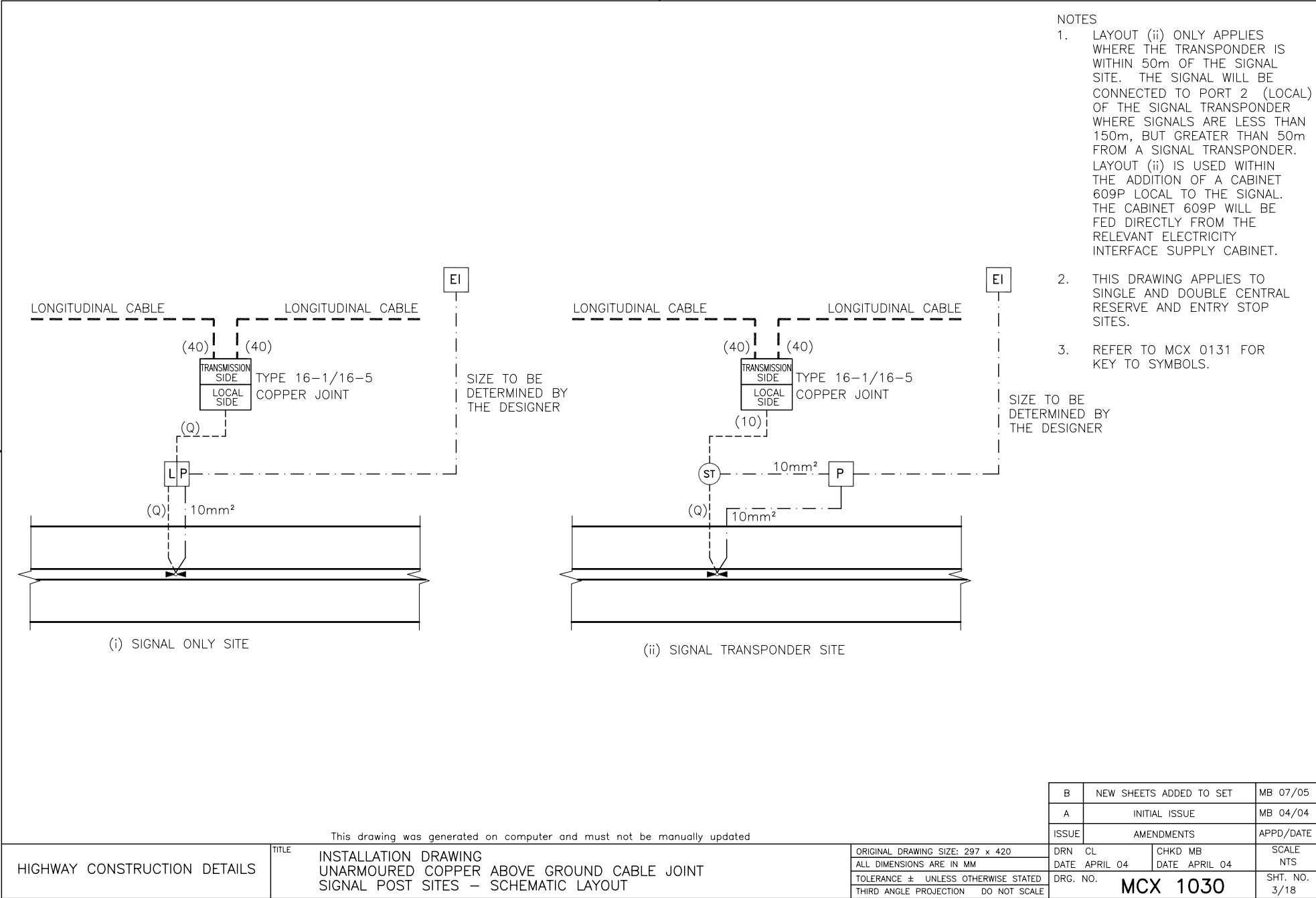
HIGHWAY CONSTRUCTION DETAILS

TITLE
INSTALLATION DRAWING
UNARMoured COPPER ABOVE GROUND CABLE JOINT
TELEPHONE SITES – SCHEMATIC LAYOUT

ORIGINAL DRAWING SIZE: 297 x 420	
ALL DIMENSIONS ARE IN MM	
TOLERANCE ± UNLESS OTHERWISE STATED	
THIRD ANGLE PROJECTION DO NOT SCALE	

B	NEW DRAWINGS ADDED TO SET	MB 07/05
A	INITIAL ISSUE	MB 04/04
ISSUE	AMENDMENTS	APPD/DATE
DRN CL	CHKD MB	SCALE
DATE APRIL 04	DATE APRIL 04	NTS
DRG. NO.	MCX 1030	SHT. NO.
		2/18

(REV.B)



B	NEW SHEETS ADDED TO SET	MB 07/05
A	INITIAL ISSUE	MB 04/04
ISSUE	AMENDMENTS	APPD/DATE
DRN CL	CHKD MB	SCALE
DATE APRIL 04	DATE APRIL 04	NTS
DRG. NO.	MCX 1030	SHT. NO. 3/18

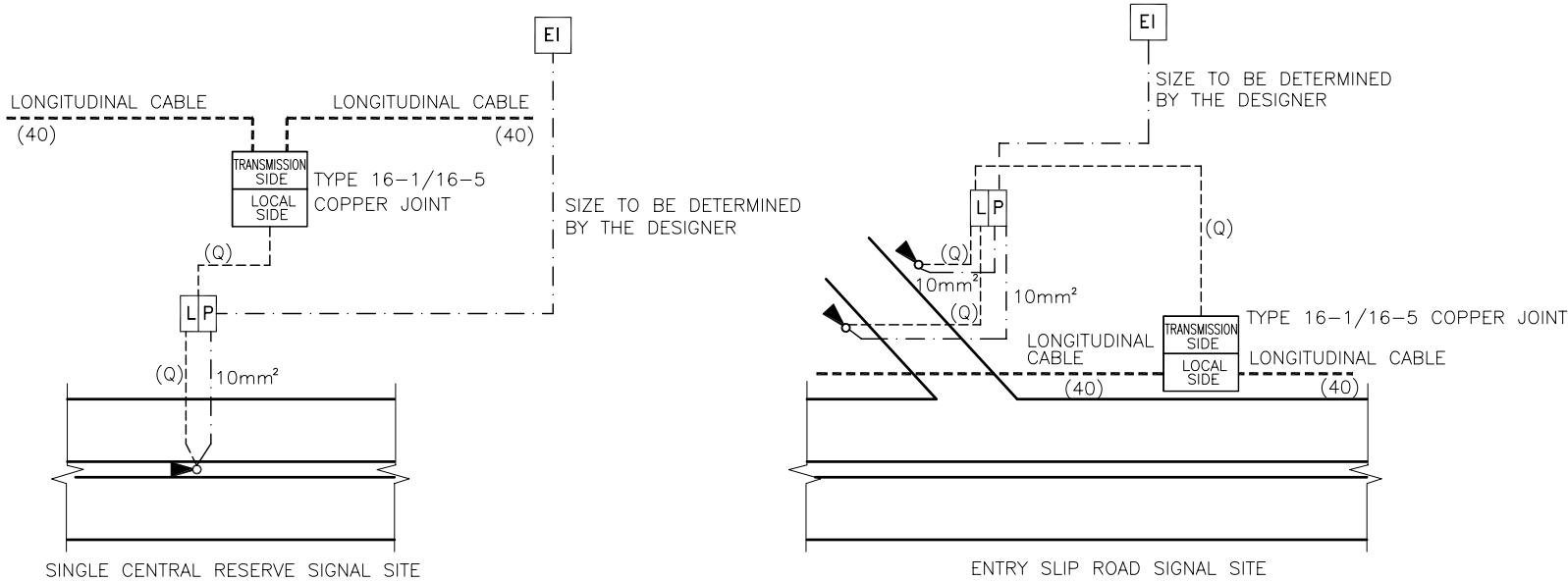
HIGHWAY CONSTRUCTION DETAILS

TITLE
INSTALLATION DRAWING
UNARMoured COPPER ABOVE GROUND CABLE JOINT
SIGNAL POST SITES – SCHEMATIC LAYOUT

ORIGINAL DRAWING SIZE: 297 x 420
ALL DIMENSIONS ARE IN MM
TOLERANCE ± UNLESS OTHERWISE STATED
THIRD ANGLE PROJECTION DO NOT SCALE

This drawing was generated on computer and must not be manually updated

NOTES
1. REFER TO MCX 0131 FOR
KEY TO SYMBOLS



This drawing was generated on computer and must not be manually updated

HIGHWAY CONSTRUCTION DETAILS

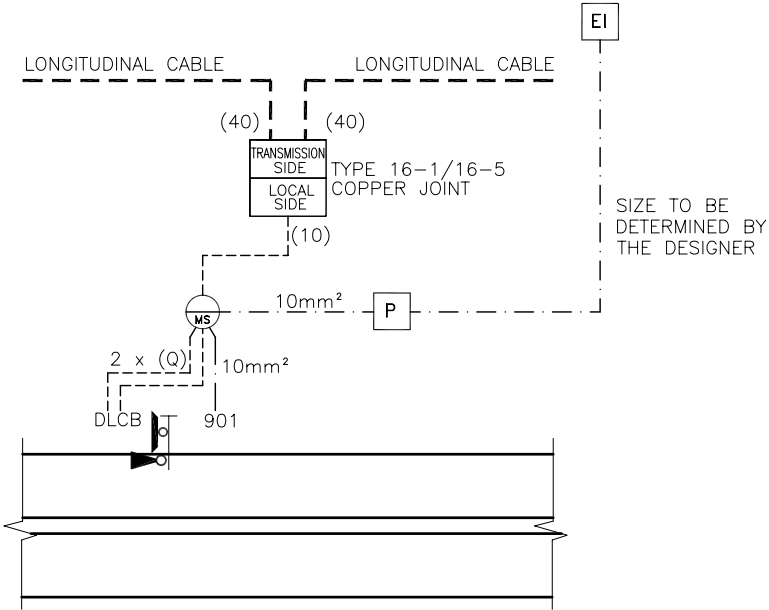
TITLE
INSTALLATION DRAWING
UNARMoured COPPER ABOVE GROUND CABLE JOINT
CENTRAL RESERVE AND ENTRY SLIP SIGNAL SITES – SCHEMATIC LAYOUT

ORIGINAL DRAWING SIZE: 297 x 420
ALL DIMENSIONS ARE IN MM
TOLERANCE ±1 UNLESS OTHERWISE STATED
THIRD ANGLE PROJECTION DO NOT SCALE

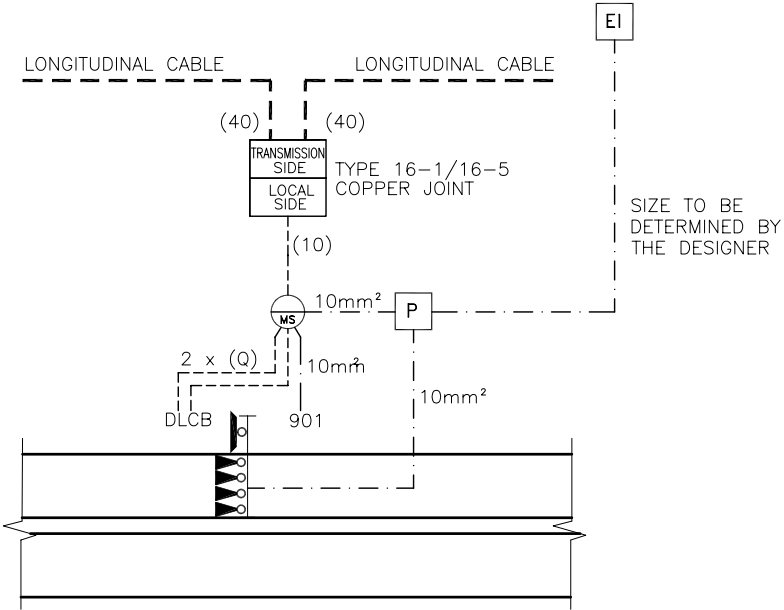
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A	INITIAL ISSUE	MB 04/04
ISSUE	AMENDMENTS	APPD/DATE
DRN CL DATE APR 04	CHKD MB DATE APR 04	SCALE NTS
DRG. NO.	MCX 1030	SHT. NO. 4/18

(REV.B)

NOTES
1. REFER TO MCX 0131 FOR
KEY TO SYMBOLS



MESSAGE SIGN AND EMI SITES



MESSAGE SIGN AND LANE SIGNAL SITES

This drawing was generated on computer and must not be manually updated

HIGHWAY CONSTRUCTION DETAILS

TITLE
INSTALLATION DRAWING
UNARMoured COPPER ABOVE GROUND CABLE JOINT
PORTAL AND CANTILEVER SITES - SCHEMATIC LAYOUT

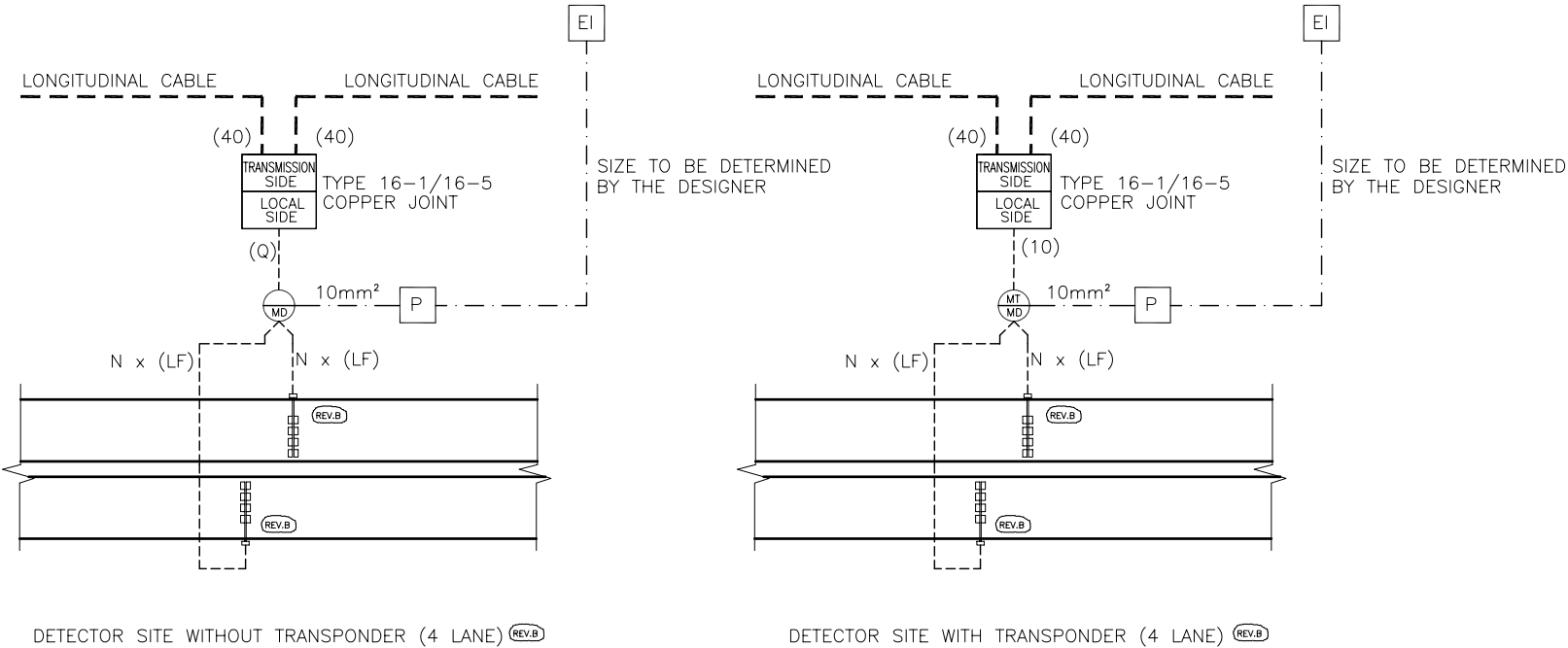
ORIGINAL DRAWING SIZE: 297 x 420
ALL DIMENSIONS ARE IN MM
TOLERANCE ± 1 UNLESS OTHERWISE STATED
THIRD ANGLE PROJECTION DO NOT SCALE

B	NEW SHEETS ADDED TO SET	MB 07/05
A	INITIAL ISSUE	MB 04/04
ISSUE	AMENDMENTS	APPD/DATE
DRN CL DATE APR 04	CHKD MB DATE APR 04	SCALE NTS
DRG. NO.	MCX 1030	SHT. NO. 5/18

(REV.B)

- NOTES
- REV.B

1. N = NUMBER OF LANES.
2. REFER TO MCX 0131 FOR KEY TO SYMBOLS.



This drawing was generated on computer and must not be manually updated

HIGHWAY CONSTRUCTION DETAILS

TITLE

INSTALLATION DRAWING
UNARMoured COPPER ABOVE GROUND CABLE JOINT
MIDAS SITES – SCHEMATIC LAYOUT

ORIGINAL DRAWING SIZE: 297 x 420

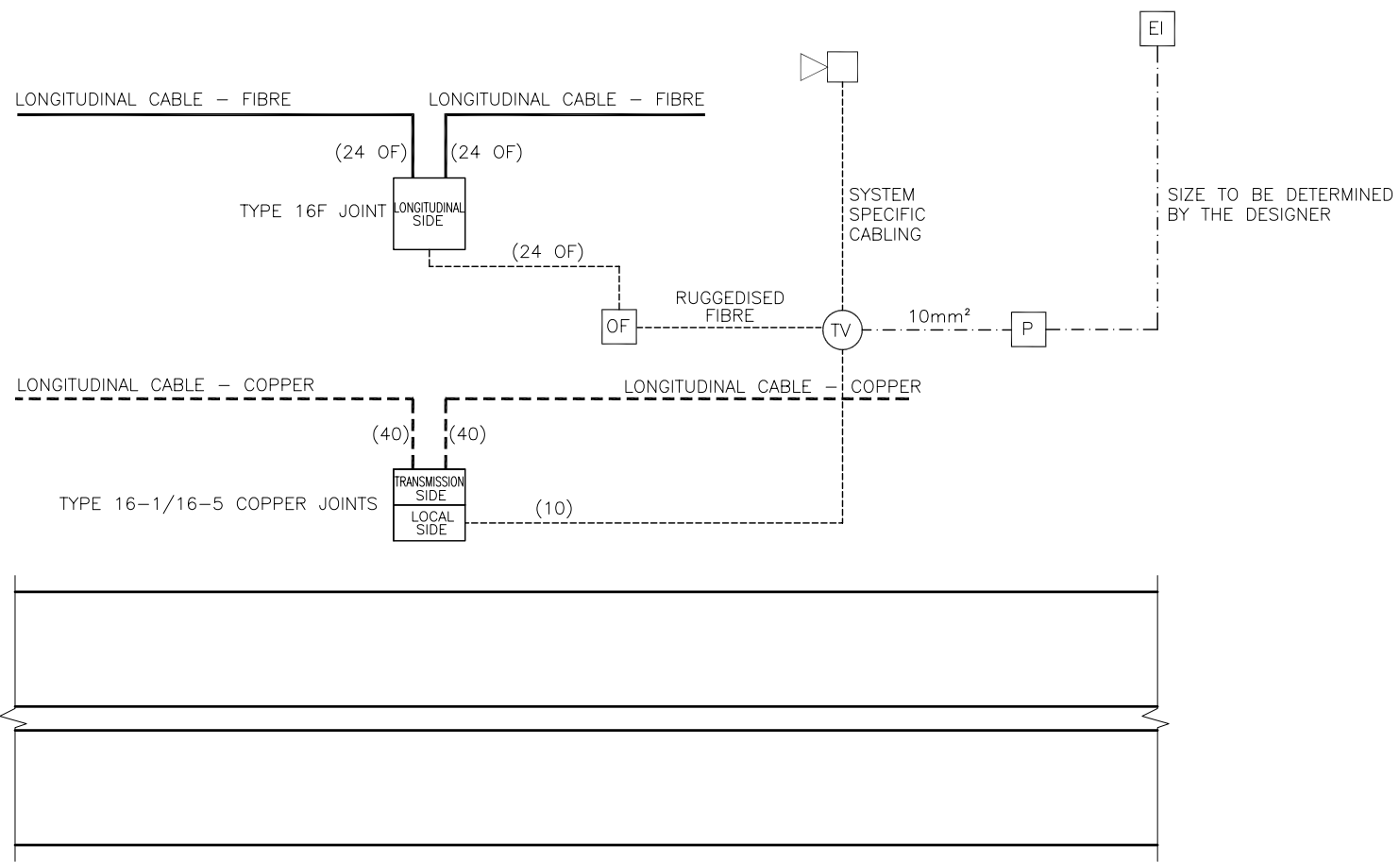
ALL DIMENSIONS ARE IN MM

TOLERANCE ±1 UNLESS OTHERWISE STATED

THIRD ANGLE PROJECTION DO NOT SCALE

B	DETECTOR LOOPS REMOVED FROM HARD SHOULDER, NEW DRGS ADDED TO SET	MB 07/05
A	INITIAL ISSUE	MB 04/04
ISSUE	AMENDMENTS	APPD/DATE
DRN CL	CHKD MB	SCALE
DATE APR 04	DATE APR 04	NTS
DRG. NO.	MCX 1030	SHT. NO. 6/18

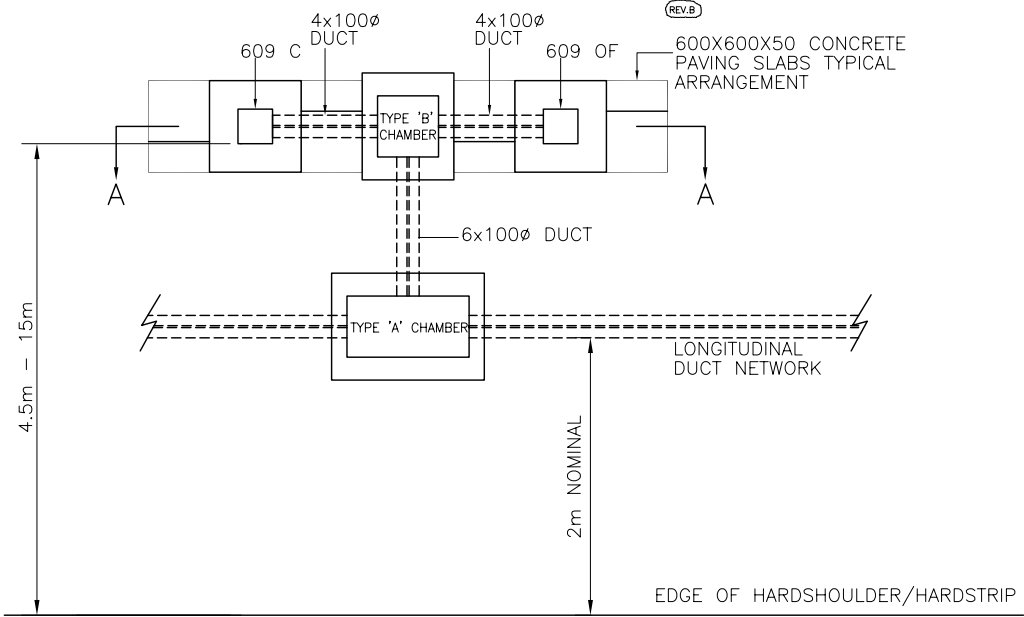
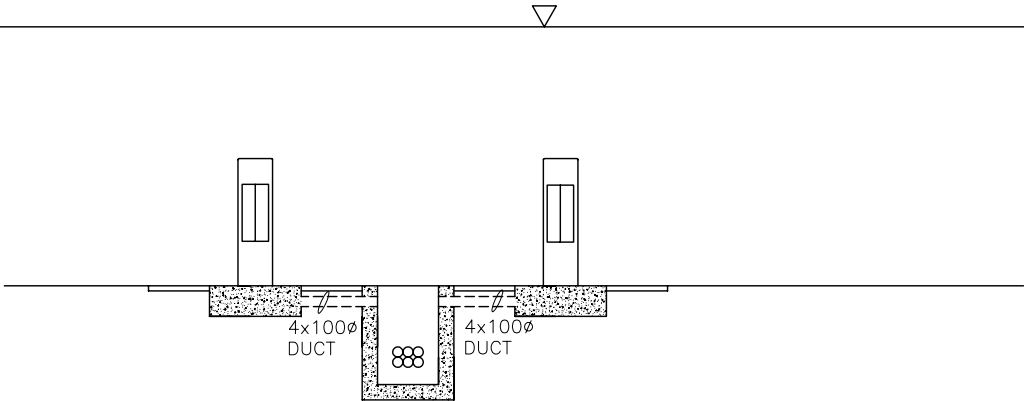
REV.B



- NOTE
1. RUGGEDISED FIBRE TO BS EN 187000 SHALL BE PROVIDED BY THE CONTRACTOR.
 2. REFER TO MCX 0131 FOR KEY TO SYMBOLS.

B	NEW SHEETS ADDED TO SET		MB 07/05
A	INITIAL ISSUE		MB 04/04
ISSUE	AMENDMENTS		APPD/DATE
DRN CL	CHKD MB	SCALE	
DATE APR 04	DATE APR 04	NTS	
DRG. NO.	MCX 1030		SHT. NO. 7/18

- NOTES
- 1. FOR CHAMBERS TYPE 'A' REFER TO DRAWING MCX 0815 SHEET 1.
 - 2. FOR CHAMBERS TYPE 'B' REFER TO DRAWING MCX 0815 SHEET 3.



PLAN

This drawing was generated on computer and must not be manually updated

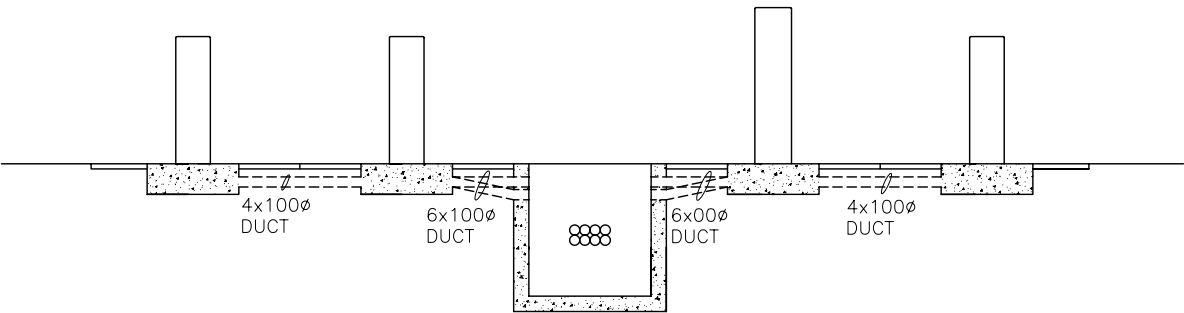
HIGHWAY CONSTRUCTION DETAILS

TITLE
INSTALLATION DRAWING
UNARMoured COPPER AND FIBRE ABOVE GROUND CABLE JOINT
DUAL CABINET SITES LAYOUT

ORIGINAL DRAWING SIZE: 297 x 420
ALL DIMENSIONS ARE IN MM
TOLERANCE ±1 UNLESS OTHERWISE STATED
THIRD ANGLE PROJECTION DO NOT SCALE

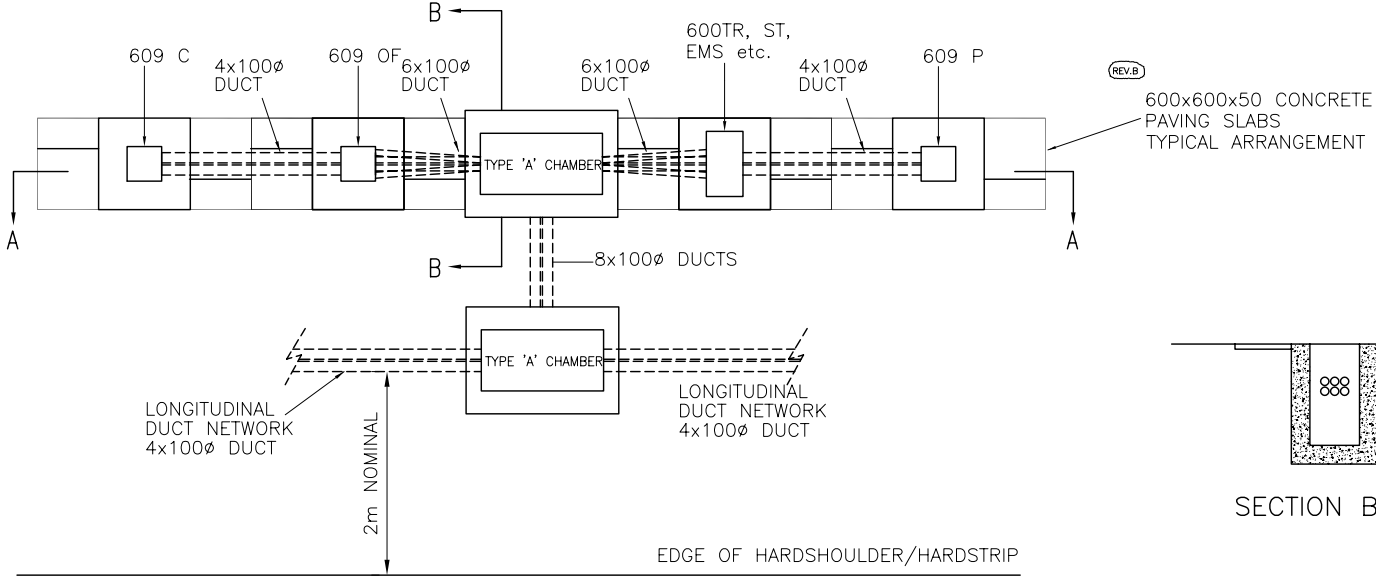
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A	INITIAL ISSUE	MB 04/04
ISSUE	AMENDMENTS	APPD/DATE
DRN CL DATE APR 04	CHKD MB DATE APR 04	SCALE NTS
DRG. NO.	MCX 1030	SHT. NO. 8/18

(REV.B)



SECTION A-A

- NOTES
1. DUCT ARRANGEMENT SHOWN IS TYPICAL FOR FOUR CABINET SITE.
 2. FOR CHAMBERS TYPE 'A' REFER TO DRAWING MCX 0815 SHEET 1.



SECTION B-B

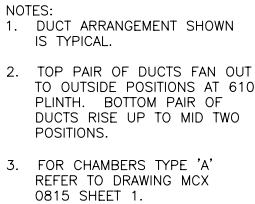
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A	INITIAL ISSUE	MB 04/04
ISSUE	AMENDMENTS	APPD/DATE
DRN CL	CHKD MB	SCALE
DATE APR 04	DATE APR 04	NTS
DRG. NO.	MCX 1030	SHT. NO8
		9/18

HIGHWAY CONSTRUCTION DETAILS

TITLE
INSTALLATION DRAWING
UNARMoured COPPER AND FIBRE ABOVE GROUND CABLE JOINT
MULTIPLE CABINET SITES LAYOUT

ORIGINAL DRAWING SIZE: 297 x 420
ALL DIMENSIONS ARE IN MM
TOLERANCE ±1 UNLESS OTHERWISE STATED
THIRD ANGLE PROJECTION DO NOT SCALE

(REV.B)

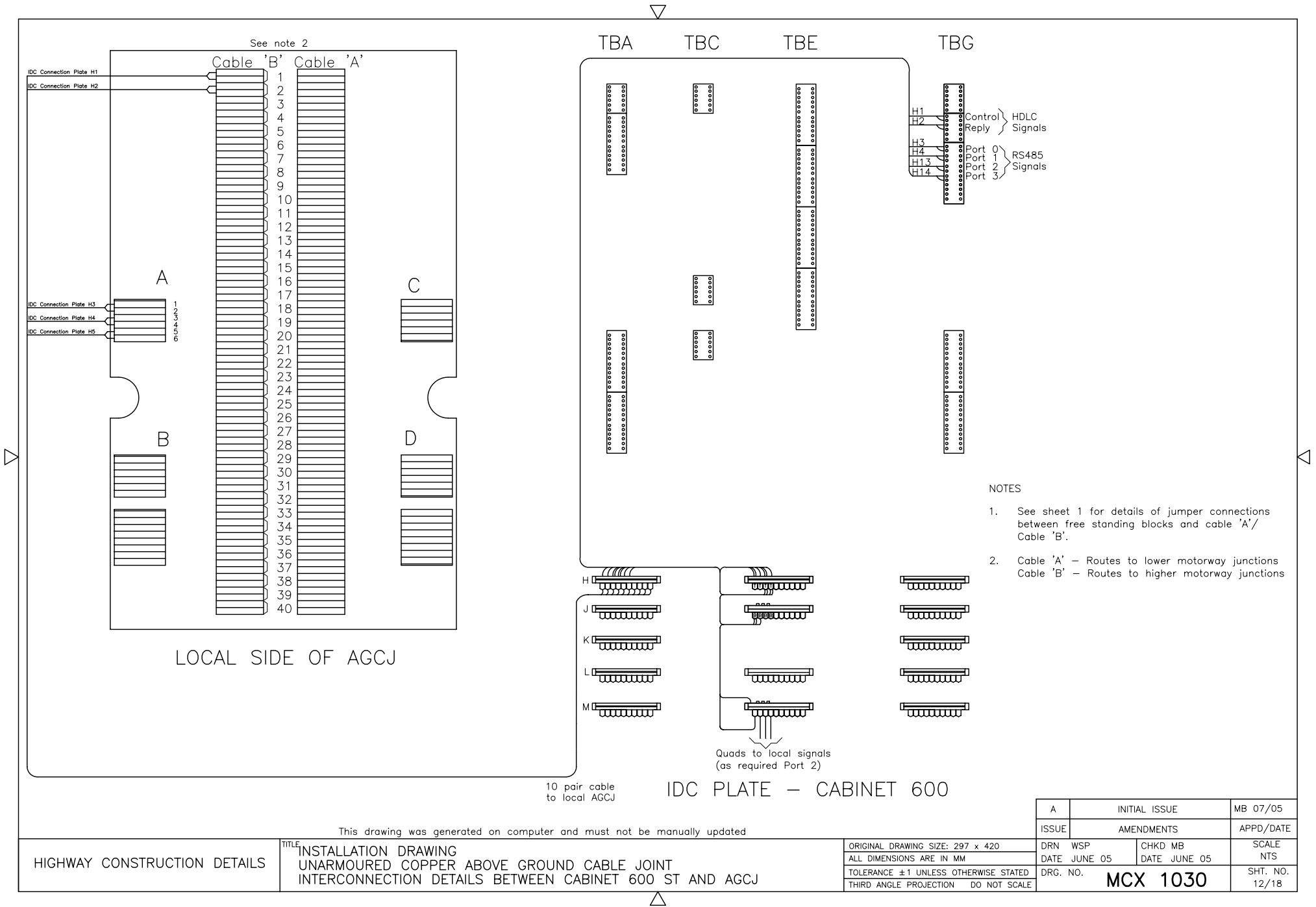


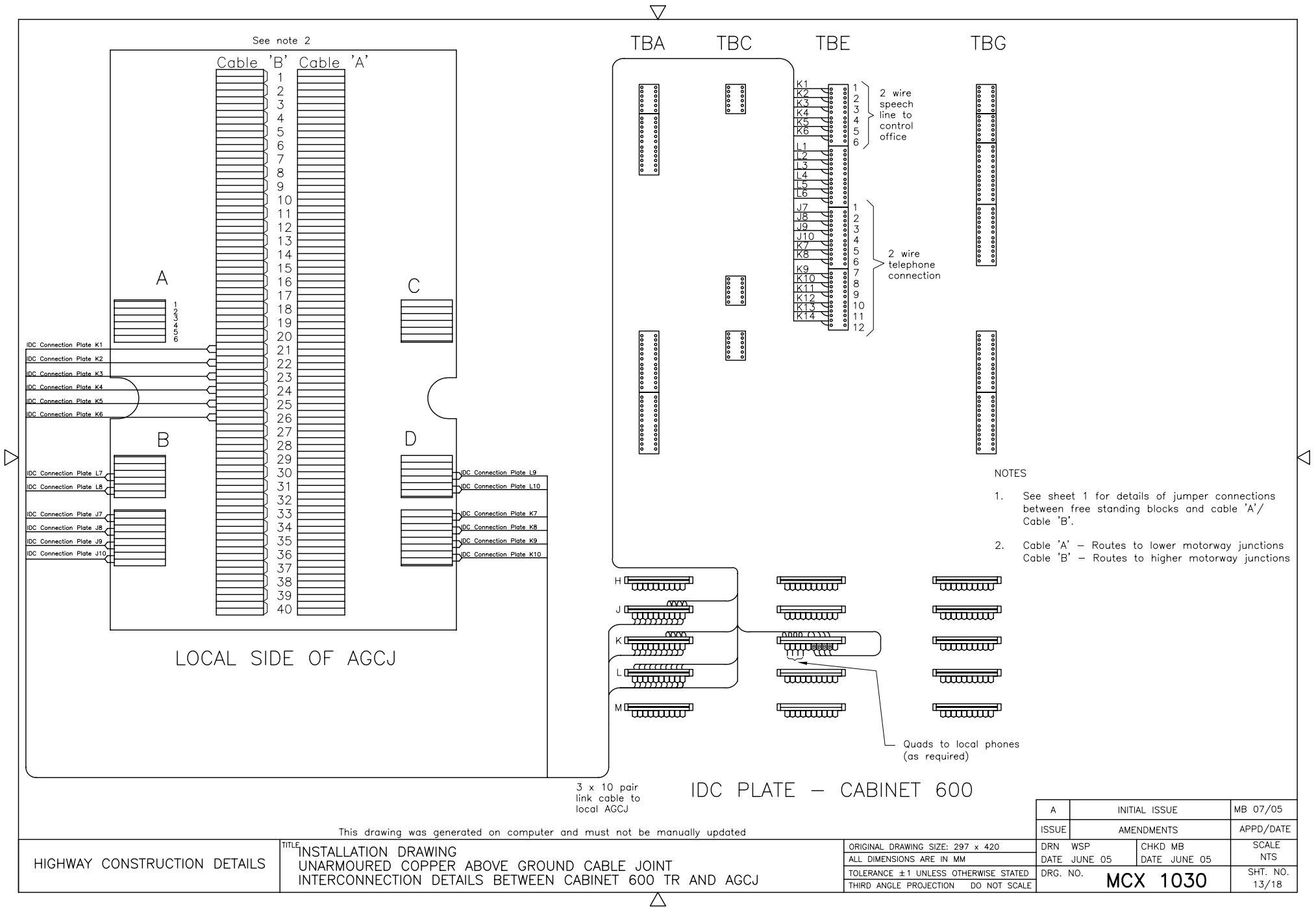
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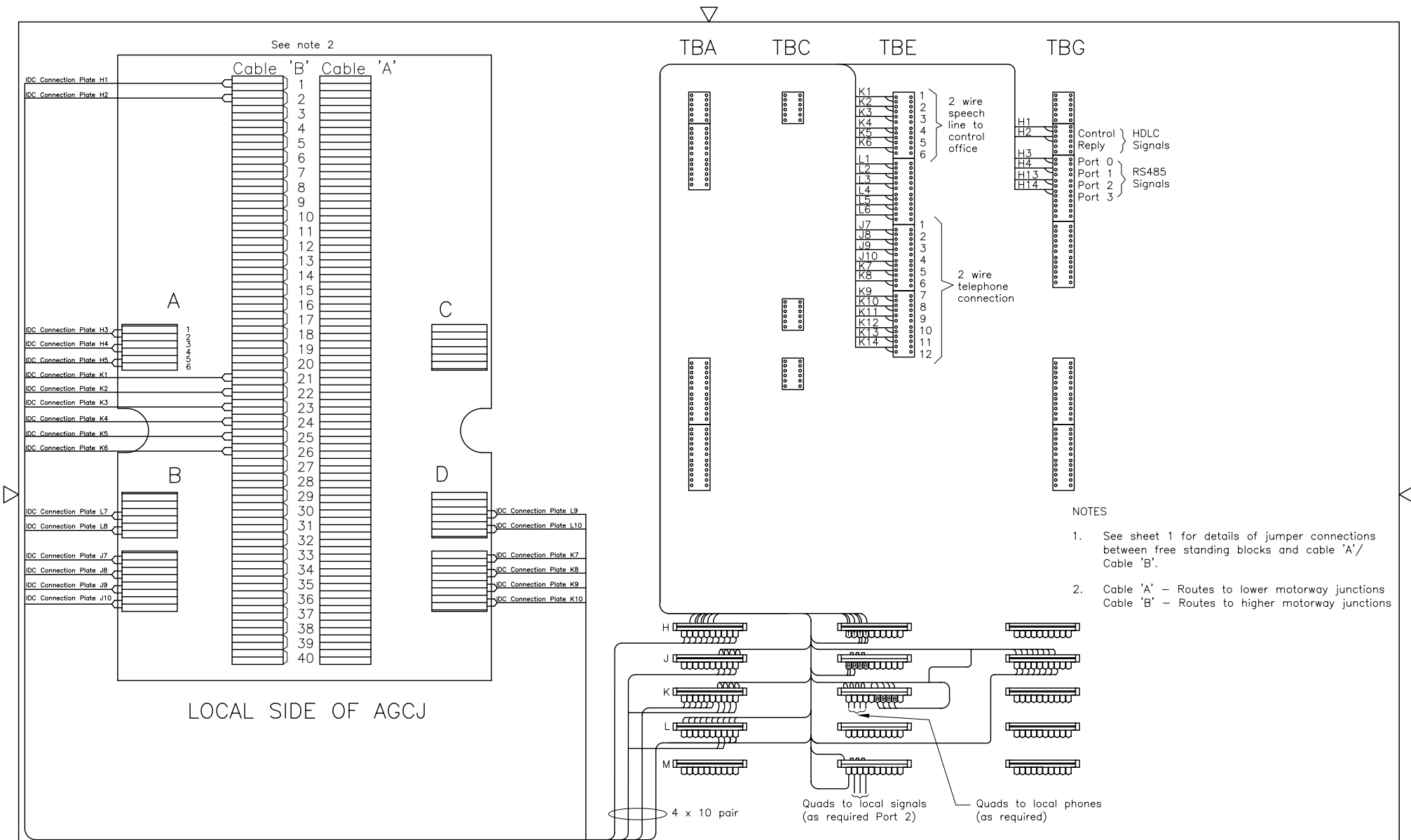
B	NEW SHEETS ADDED TO SET	MB 07/05
A	INITIAL ISSUE	MB 04/04
ISSUE	AMENDMENTS	APPD/DATE
DRN CL DATE APR 04	CHKD MB DATE APR 04	SCALE NTS
DRG. NO.	MCX 1030	SHT. NO. 10/18

▶

INSTALLATION DRAWING
UNARMoured COPPER ABOVE GROUND CABLE JOINT
INTERCONNECTION DETAILS BETWEEN CABINET 600 AND AGCU







IDC PLATE - CABINET 600

This drawing was generated on computer and must not be manually updated

HIGHWAY CONSTRUCTION DETAILS

TITLE
INSTALLATION DRAWING
UNARMoured COPPER ABOVE GROUND CABLE JOINT
INTERCONNECTION DETAILS BETWEEN CABINET 600 ST & TR AND AGCJ

ORIGINAL DRAWING SIZE: 297 x 420
ALL DIMENSIONS ARE IN MM
TOLERANCE ±1 UNLESS OTHERWISE STATED
THIRD ANGLE PROJECTION DO NOT SCALE

A	INITIAL ISSUE	MB 07/05
ISSUE	AMENDMENTS	APPD/DATE
DRN WSP	CHKD MB	SCALE
DATE JUNE 05	DATE JUNE 05	NTS
DRG. NO.	MCX 1030	SHT. NO. 14/18

