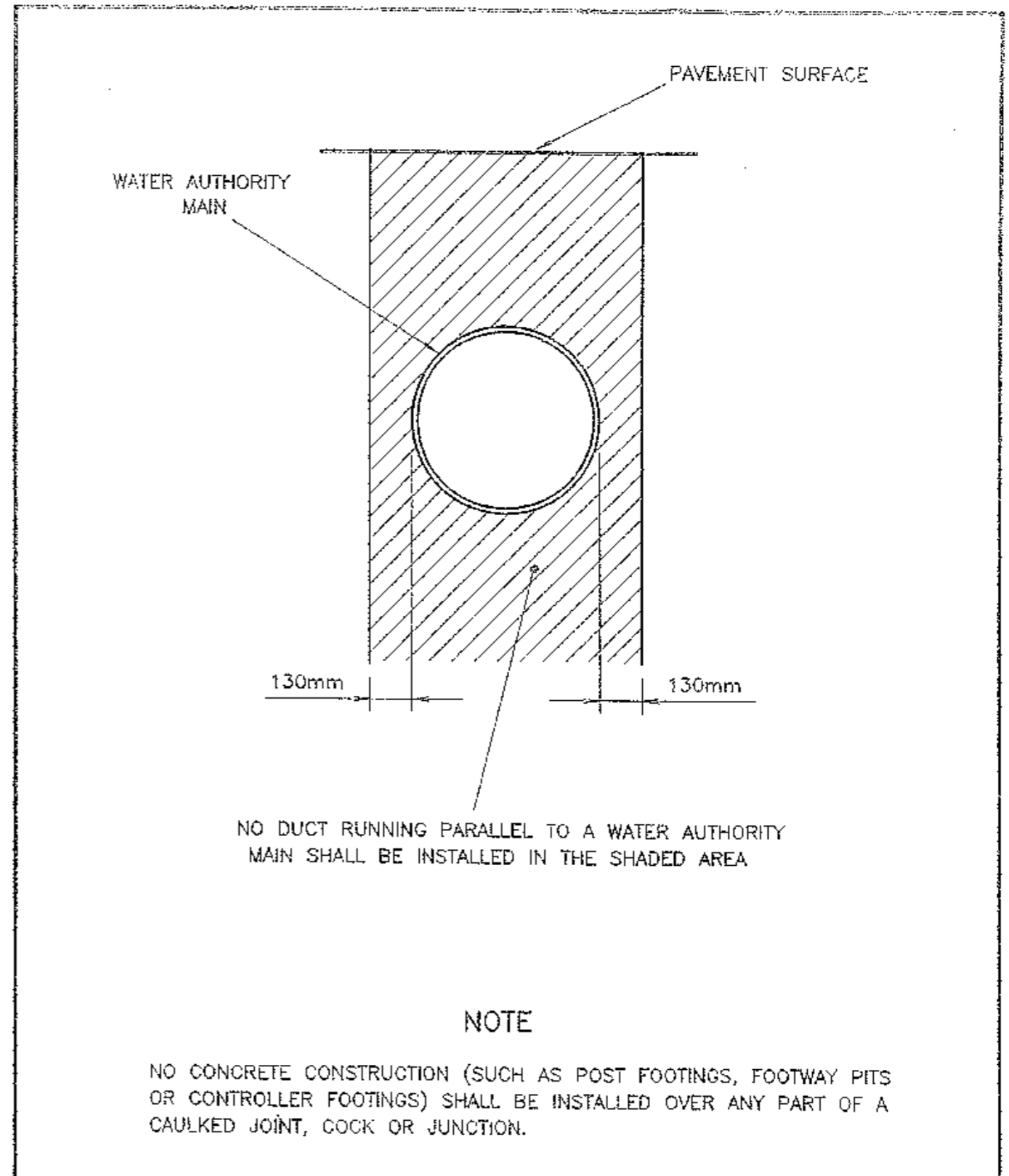


DRAWINGS LISTED IN SPECIFICATION SI/TCS/8 Revision 1 – APPENDIX A

The following drawings have been referred to in the Specification. The drawing issues referred to below were current as at August 2018.

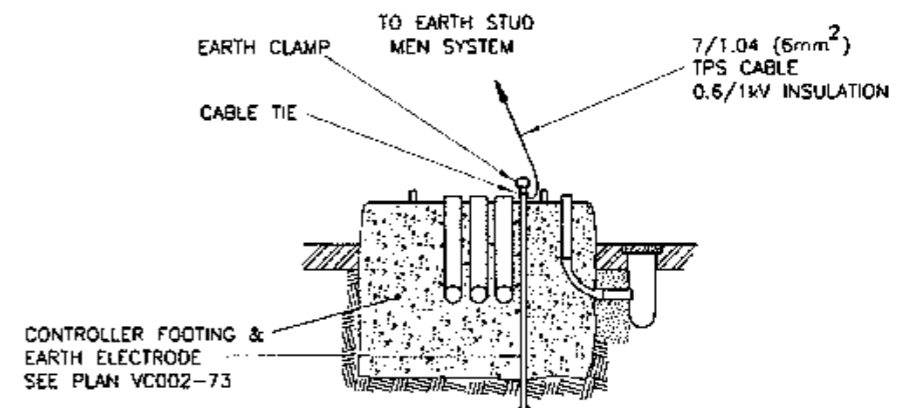
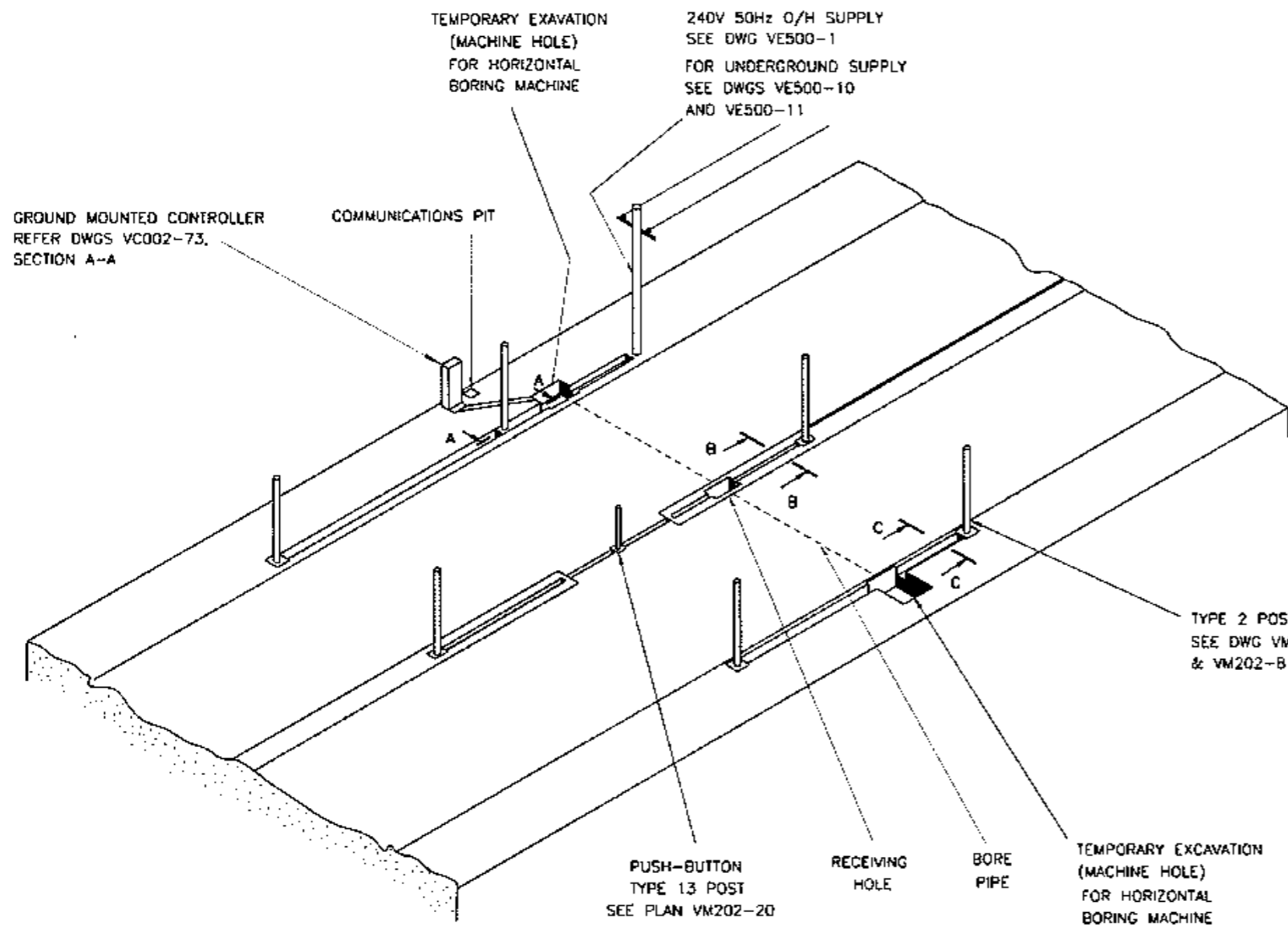
Drawing No.	Issue	Description	Drawing No.	Issue	Description
VC001-4	I	Precaution against obstruction of water mains	VD002-25 sheet 3	F	Traffic signal post top assembly - suggested terminal allocation for 3 phase (example 1)
VC001-8	G	Typical excavations and installation of components for mid-block locations	VD002-25 sheet 4	F	Traffic signal post top assembly - suggested terminal allocation for 3 phase (example 2)
VC001-9	G	Typical intersection excavations and installation of component parts	VD002-37	G	Typical cable connection chart for intersection location
VC002-43	P	Footing for type 2 post and post-mounted controller	VD003-6 Sheets 1 to 7	F	Symbols and abbreviations
VC002-45	G	Installation and mechanical details of special type 2 post with shallow cover	VD006-20	C	Standard cable chart for mid-block pedestrian-actuated signals
VC002-59	E	Footing for Type 7 and 8 posts	VE500-1	T	General arrangement of consumer mains for overhead supply
VC002-65	E	Footing for Type 10 and 11 posts	VE500-11	G	Installation of underground fuse box
VC002-66	D	Footing for Type 13 push button post (with 200mm PCD holding down bolt centres)	VE530-7	D	Standard connection chart for post-mounted audio-tactile equipment
VC002-71	C	Footing for Type 2 post	VE530-8	E	Method of installation of audio-tactile signal facilities
VC002-72	C	Footing for Type 5 and 9 mast arms and Type 6 post	VE535-1	O	Connection diagram for Fire/Ambulance station signals
VC002-73	E	Footing for ground-mounted controller housing	VM015-16	S	Assembly details of terminal box, lanterns and pedestrian push buttons on wooden poles
VC002-75	B	Footing for Type 4 mast arm	VM015-18	D	General arrangement of traffic signals on wooden poles
VC002-76	C	Footing for ground-mounted small controller and CCTV housings	VM200-27	B	Assembly details for dual lanterns using lock washers
VC002-78	B	Alternative footing for Type 13 PB post with exposed base plate on final surface	VM200-28	A	Assembly details of lock washers
VC002-82	A	Method of installation of an adaptor stool to suit Type 7, 8 & 13 posts on an existing Type 2 footing	VM202-8	I	Traffic signal lantern and accessories assembly on standard type 2 post
VC005-17	Q	Method of installation of stop line detectors	VM202-12	E	Installation of traffic signal priority sign (R1-202)
VC005-18	I	Method of installation of advance detectors	VM203-13	G	General arrangement of type 4 mast arm
VC005-19	D	Symmetripole type loop detector wiring guide	VM211-6 sheet 1	I	General arrangement of type 5 mast arms
VC005-36	A	Method of installation of bicycle stop line detectors	VM211-17	E	Lower assembly details of terminal box and lanterns for mast arms and type 6 post
VC005-37	A	Quadripole type bicycle loop detector wiring guide for 4 possible entry positions	VM211-20	E	Safety clearances to overhead power lines
VC005-38	A	Sample of bicycle stop line loop detector to suit bicycle lanes from 1.2m to 2.0m wide	VM211-21	E	Assembly details of upper lanterns to type 5 mast arms
VC007-4	N	General arrangement of pavement junction box pit (small, large, extra large type)	VM211-26	E	Assembly details of type 5L and 5S mast arms
VC007-5	J	Large footpath cable junction pit	VM212-2	I	General arrangement of type 6 post
VD001-5	H	Standard positioning of traffic signal components at intersections	VM215-1	B	General arrangement of type 9 mast arms
VD001-6	G	Standard positioning of traffic signal components at mid-block locations	VM417-3	H	Method of jointing multi-core traffic signal cables
VD001-7	C	Orientation of pedestrian push-button arrow disc	VM417-4	D	Method of protection for two-core screened detector feeder cables
VD002-20	E	Typical traffic signal design plan for mid-block location	VM417-5	B	Method of inserting lip blade crimp lugs into terminals
VD002-21	G	Typical cable installation plan for mid-block location	VM625-17	E	Outline and arrangement of post-mounted controller
VD002-22	G	Typical traffic signal design plan for intersection location	VR007-6	F	Maximum allowable cable combination in ducts for traffic signal installation
VD002-23	J	Typical cable installation plan for intersection location	VR007-7	B	Table showing conduit and excess lead lengths for lanterns and audio tactile housing on multifunction poles
VD002-25 sheet 1	E	Traffic signal post top assembly - suggested terminal allocation	VR017-11	A	Method of clamping conduits on post top assemblies
VD002-25 sheet 2	F	Traffic signal post top assembly - suggested terminal allocation for 2 phase	VT006-60	A	Assembly details for traffic signs using lock washers



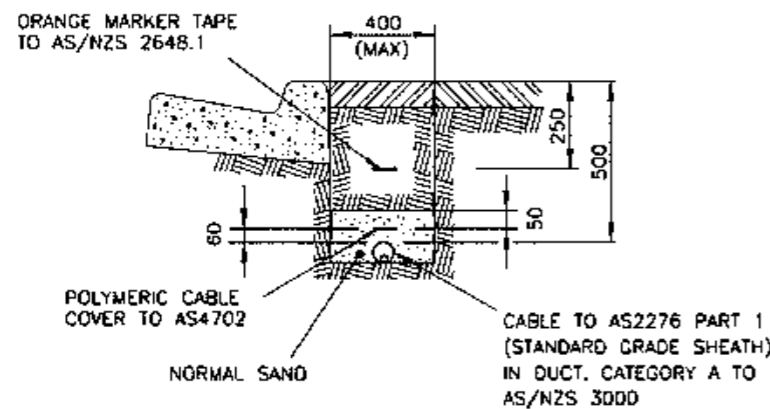
NOTE

NO CONCRETE CONSTRUCTION (SUCH AS POST FOOTINGS, FOOTWAY PITS OR CONTROLLER FOOTINGS) SHALL BE INSTALLED OVER ANY PART OF A CAULKED JOINT, COCK OR JUNCTION.

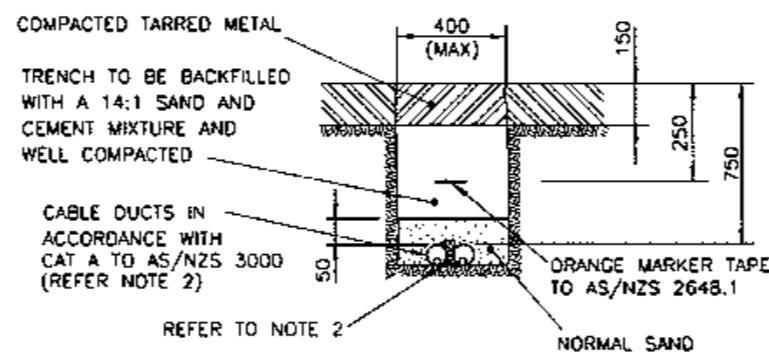
1 ISSUE 28-11-85 JI TC2960 REDRAWN FVC	ROADS AND TRAFFIC AUTHORITY OF NSW TRAFFIC SIGNALS		REFERENCE DRAWINGS						
			<table border="1"> <tr><td> </td><td> </td></tr> <tr><td> </td><td> </td></tr> <tr><td> </td><td> </td></tr> <tr><td> </td><td> </td></tr> </table>						
PRECAUTION AGAINST OBSTRUCTION OF WATER MAINS		SCALE	APPROVED: 13-03-86						
		SUPERSEDES: ISSUE H		F HULSCHER MANAGER STDS & QUALITY					
		DRAWN AS 28-11-85 CHECKED RB 19-12-85 PASSED B. TAYLOR 12-03-86	<table border="1"> <tr> <td>ISSUE</td> <td>1</td> <td> </td> <td> </td> <td> </td> <td> </td> </tr> </table>			ISSUE	1		
ISSUE	1								
			VC001-4						



SECTION A-A



SECTION B-B
CABLE IN FOOTPATH
ISLAND OR MEDIAN



SECTION C-C
CABLE IN ROADWAY
INSTALLED BY OPEN TRENCHING

NOTES

1. THIS PLAN INDICATES THE METHOD OF INSTALLING CABLE WHERE IT IS NECESSARY TO EXCAVATE. IN ORDER TO PRESERVE PAVING & TO MINIMISE REINSTATEMENT COSTS, THE HORIZONTAL BORING METHOD SHALL BE USED. OPEN TRENCHING IS ONLY TO BE USED WHERE BORING IS IMPRACTICAL & IT IS SUBJECT TO PRIOR APPROVAL.
2. WHEN DUCTS ARE INSTALLED BY OPEN TRENCHING, ENSURE THAT THEY ARE PLACED AND SECURED CLOSE TOGETHER. A 300mm LENGTH OF 10mm FOAM EXPANSION JOINT SHALL BE INSTALLED BETWEEN CABLE DUCTS AT EACH END IN ROADWAYS.
3. PJ BOXES ARE TO BE INSTALLED IN THE FOOTPATH AND MEDIAN FOR ALL ROAD CROSSING PIPES.

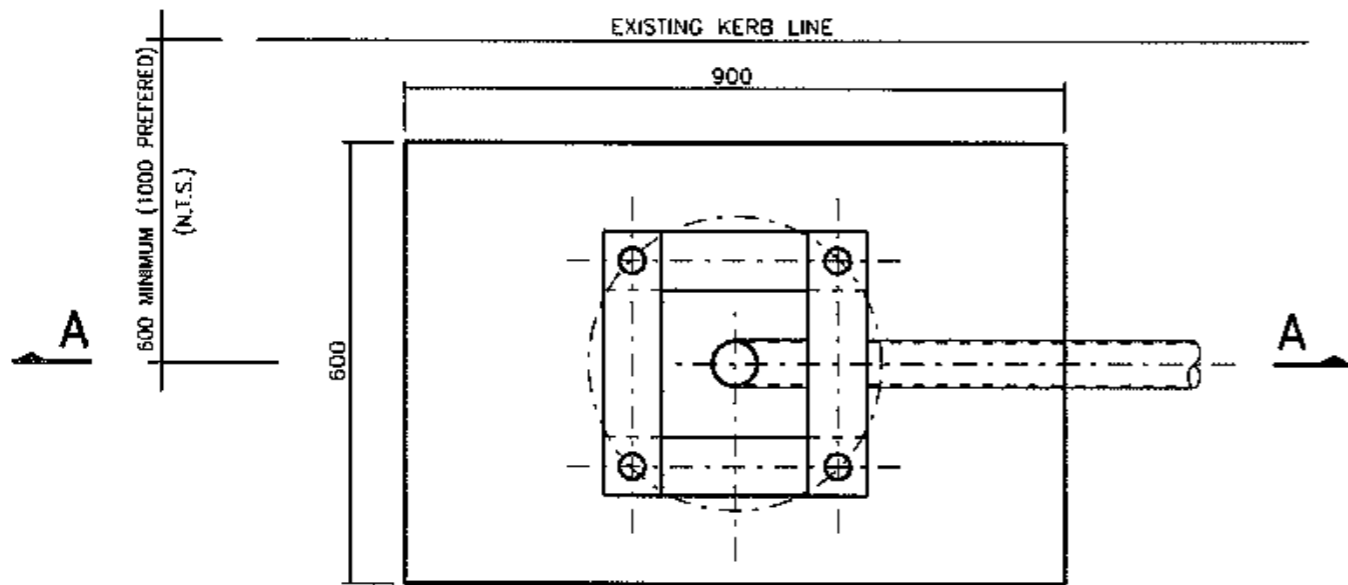
'D' ISSUE 04-08-99
 JI TC2456 PLAN
 REDRAWN IN NOTE 1
 'SUPERINTENDENTS REP'
 REF REMOVED.
 RVC BWT
 E. ISSUE 2-11-2010
 POST MTD. CONTROLLER
 DETAIL'S REPLACED WITH
 GROUND MTD. CONTROLLER.
 SHORT PB POST WAS TYPE 2.
 A.K.
 F. ISSUE 11-03-11
 MARKER TAPE ADDED TO CROSS
 SECTION B-B & C-C.
 L.L.
 'G' ISSUE 08-05-2016
 SECTION C-C REVISED. NORMAL
 SAND SHOWN IN BOTTOM OF
 TRENCH. ADDED FOAM EXPANSION
 JOINT TO SEPARATE DUCTS AT
 EACH END. REVISED NOTE 2.
 D.B.

REFERENCE DRAWINGS		DRAWN GO 12-12-84	
FOOTING POST MTD	VC002-43	O/H SUPPLY	VE500-1
TYP 2 POST FOOTING	VC002-51	UNDERGRND SUPPLY	VE500-11
STANDARD POSITIONS	V0001-5	PJ BOX	VM016-10
TYPICAL DESIGN	VC002-20	TYPE 2 POST	VM202-1
STD CABLE LAYOUT	VC002-21	TYPE 1.3 PB POST	VM202-20
SYMBOL & ABBREY	V0003-5	TYP 2 POST ASSBLY	VM202-B

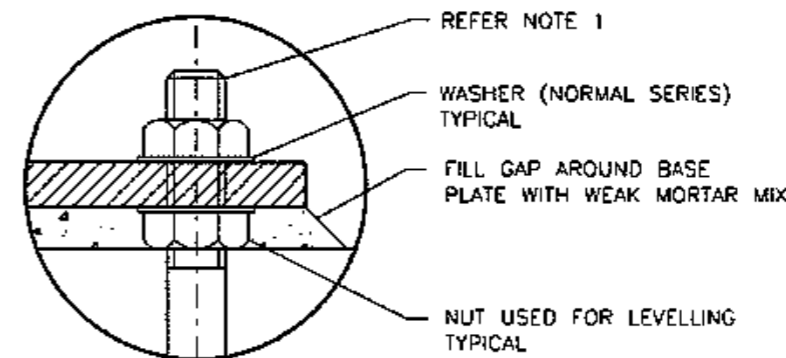
CHECKED RB 23-04-86
 PASSED BWT 21-11-89
 APPROVED
 D. VIEYRA
 DATE 21-11-89

ROADS AND MARITIME SERVICES
 TRAFFIC SIGNALS
 TYPICAL EXCAVATIONS & INSTALLATION
 OF COMPONENTS
 FOR MID-BLOCK LOCATIONS

SHEET SIZE	FILE NO	SCALE	SHEET NO
A2			
SUPERSEDES ISSUE C		ISSUE	
REG NO		VC001-8	



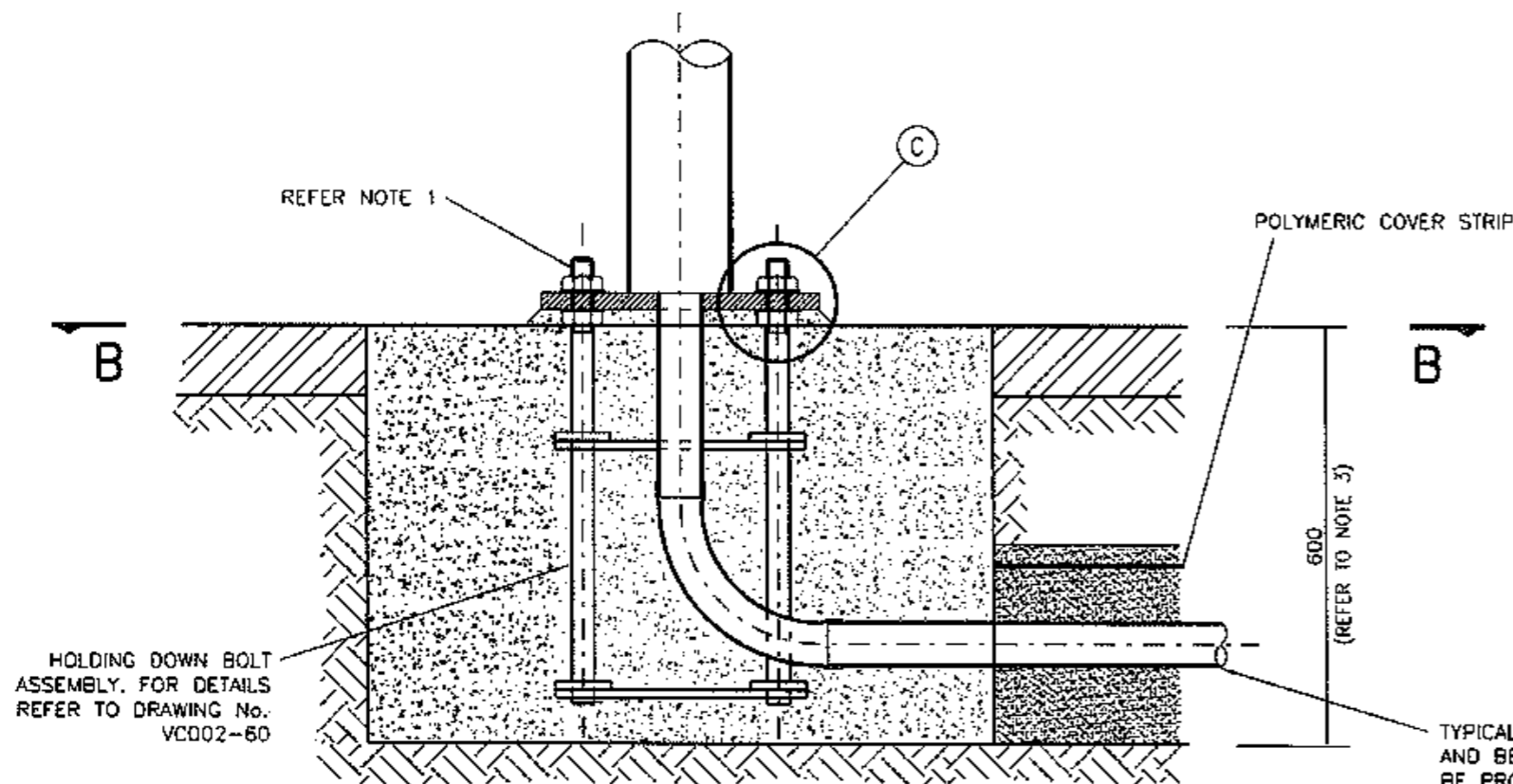
SECTION B-B



DETAIL 'C'

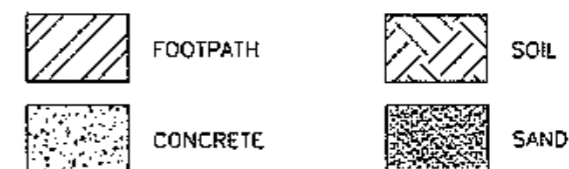
NOTES:

1. A MINIMUM OF 3 THREADS TO PROTRUDE OUT OF NUT. THE EXPOSED THREAD TO BE COVERED WITH PVC TUBE OR TAPE. FINISH POST MOUNTING AREA WITH CONCRETE, ASPHALT
2. SHALL BE USED INSTEAD OF CONCRETE WHEN REQUIRED BY THE MUNICIPAL AUTHORITY.
3. THE TOTAL FOOTING DEPTH OF 600mm MAY NEED TO BE INCREASED FOR POSTS INSTALLED IN UNPAVED AREAS WITH UNSTABLE SOILS.
4. AN ALTERNATIVE FOOTING SIZE OF 600x600mm MAY BE USED AND THE DEPTH INCREASED TO 900mm.
5. THE COMPLETE FOOTING TO BE CAST IN SITU IN ONE SINGLE CONCRETE POURING OPERATION.
6. IN SITUATIONS WHERE THE FOOTING IS IN BACKFILL, eg. THE FINISHED GROUND LEVEL BEING HIGHER THAN THE EXISTING GROUND LEVEL, THE FOOTING SHALL BE BUILT AFTER THE GROUND HAS BEEN BACKFILLED AND COMPACTED TO THE REQUIRED SOIL STRENGTH.
7. A PRE-CAST CONCRETE FOOTING MAY BE USED IN SPECIAL SITUATIONS, SUCH AS IN MEDIANS, ETC. THE CONDITION OF USE OF PRE-CAST FOOTINGS SHALL BE SUBJECT TO THE RMS REPRESENTATIVE'S AGREEMENT TO ENSURE THE PRE-CAST BLOCK IS OF THE CORRECT SIZE AND IS SITTING ON A LEVEL BASE OF SAND WITH A 14:1 MIXTURE OF SAND AND CEMENT, WELL COMPACTED AROUND THE ENTIRE BLOCK. THE PROPOSED USE OF SUCH A PRE-CAST FOOTING SHALL CONSTITUTE A 'HOLD POINT'.



SECTION A-A

LEGEND:



A ORIGINAL ISSUE	B.W.T.
B: ISSUE: 2-11-2010 WASHERS WERE LARGE SERIES. AK,	
C: ISSUE: 9-07-2013 TYPE B POST ADDED. BWT, LC.	
D: ISSUE: 03-06-2015 NOTES 4, 5 AND 6 ADDED. DB IH	
E: ISSUE: 13-12-2017 NOTE 5 AMENDED. NOTE 7 RE USE OF PRE-CAST FOOTING ADDED. IH BWT	

REFERENCE DRAWINGS	
Type 7 Post	VM202-15
Holding Down Bolt	VC002-60
Type 8 Post	VM202-25

ROADS AND MARITIME SERVICES
TRAFFIC SIGNALS

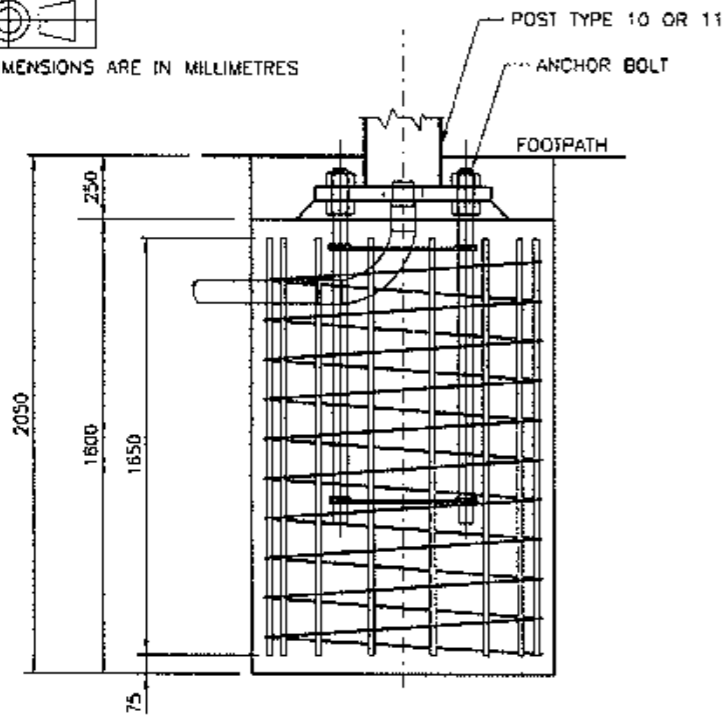
FOOTING FOR
TYPE 7 & 8 POSTS

SCALE NTS	
SUPERSEDES:	
DRAWN	F.P. 19/02/09
CHECKED	I.H. 23/02/09
PASSED	B TAYLOR 25-02-09

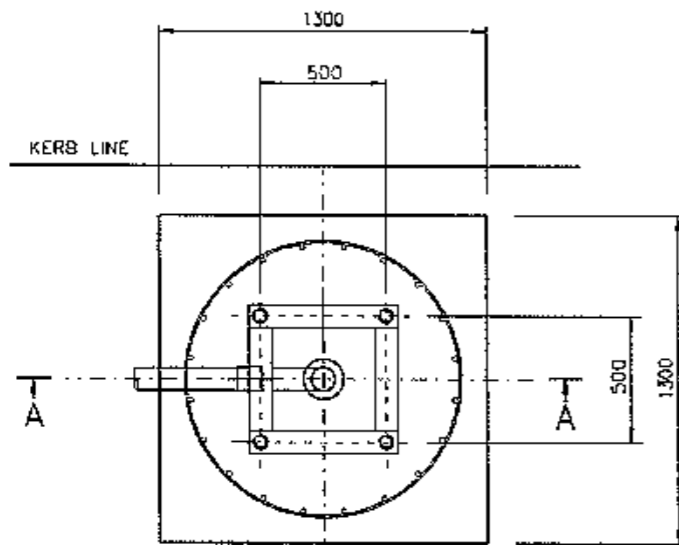
APPROVED: SUNIL SRIVASTAVA 25-02-09 MANAGER EQUIPMENT & STDS	
ISSUE	A B C D E
VC002-59	



DIMENSIONS ARE IN MILLIMETRES



SIDE VIEW
SCALE 1:20

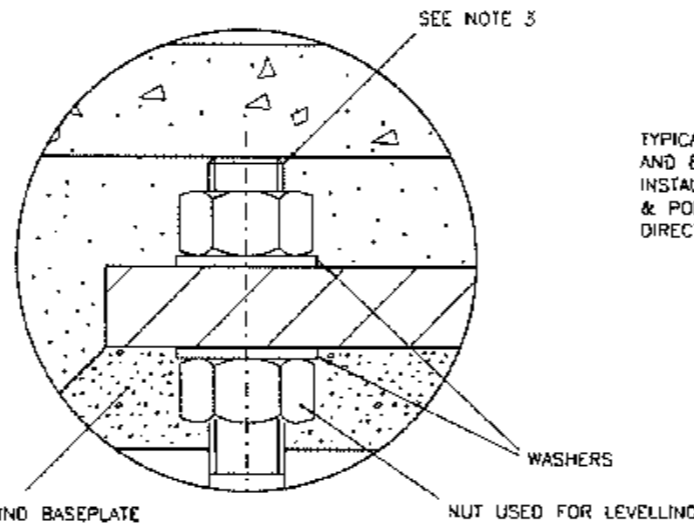
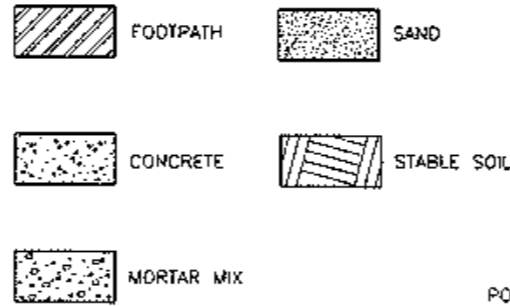


PLAN VIEW

POST, NUTS & WASHERS OMITTED FROM THIS VIEW

SCALE 1:20

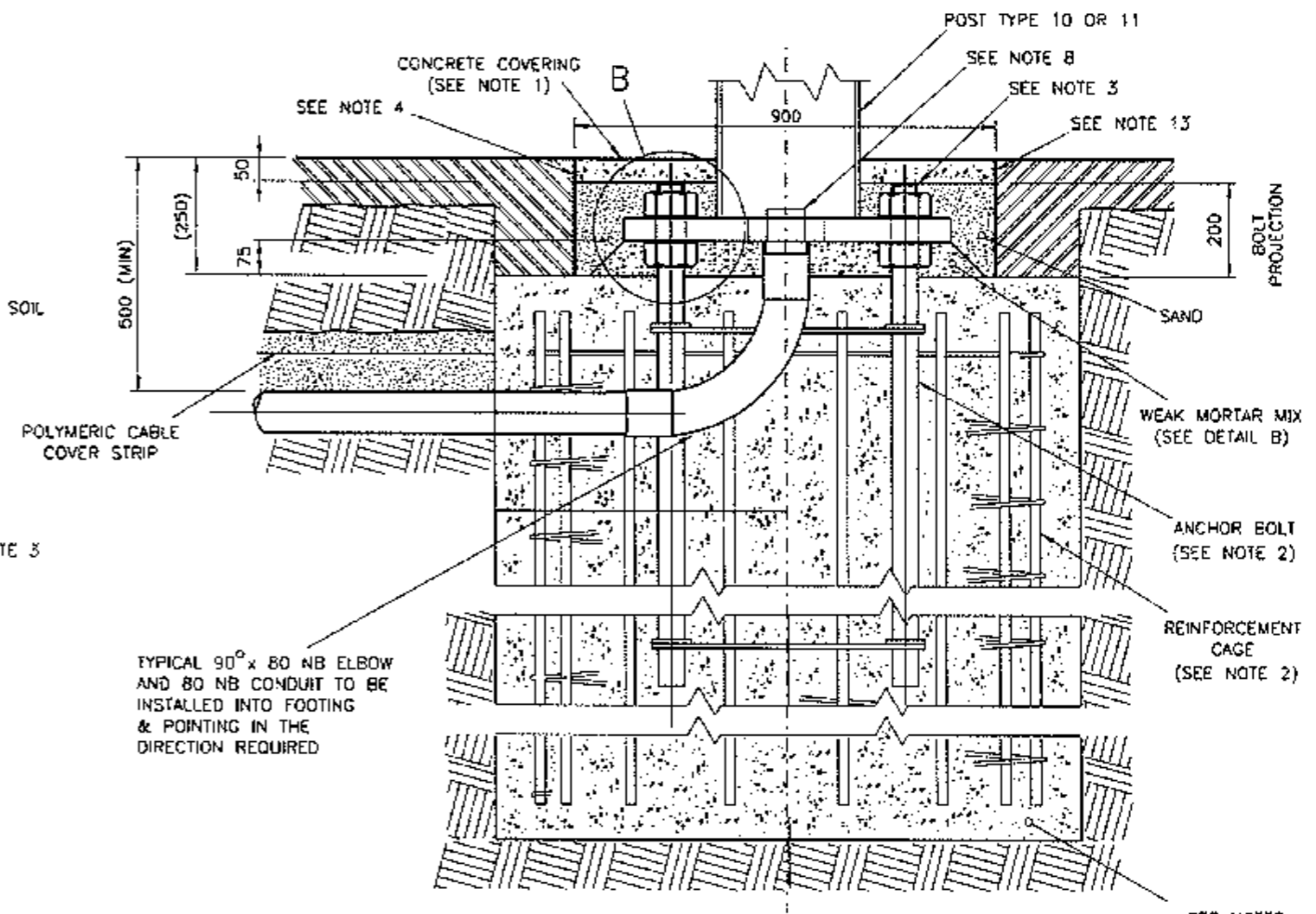
LEGEND



DETAIL B
(NOT TO SCALE)

NOTES:

1. FINISH MAST ARM MOUNTING AREA WITH 50mm OF CONCRETE, 900x900mm. ASPHALT SHALL BE USED INSTEAD OF CONCRETE WHEN REQUIRED BY THE MUNICIPAL AUTHORITY.
2. ANCHOR BOLT & REINFORCEMENT CAGE DETAILS SHOWN ON DRAWING No.ME10590.
3. A MINIMUM OF 4 BOLT THREADS ARE TO PROTRUDE OUT OF THE NUT. THE EXPOSED THREAD IS TO BE COVERED WITH PVC TUBE OR TAPE.
4. MASTIC (OR AN APPROVED EQUIVALENT) EXPANSION JOINTS ARE TO BE USED BETWEEN THE TOP OF THE POST FOOTING AND ALL CONCRETE SURFACES, INCLUDING PAVEMENT JUNCTION PITS.
5. THE COMPLETE FOOTING MUST BE CAST IN ONE SINGLE CONCRETE POURING OPERATION. PRECAST FOOTINGS ARE NOT TO BE USED.
6. THE FOOTING SHALL BE INSTALLED IN PREVIOUSLY UNDISTURBED AND STABLE SOIL, AND IN AN EXCAVATION SPECIALLY MADE AND INTENDED ONLY FOR THE FOOTING.
7. NO FORMWORK SHALL BE USED FOR THE FOOTING.
8. INSERT A SHORT PIECE OF DUCT INTO THE BEND TO ENSURE A CLEAR CABLE ENTRY.
9. FOOTING DESIGN FOR ALLOWABLE SOIL BEARING CAPACITY $q_u = 150\text{kpa}$.
10. IF DIFFERENT SOIL CONDITIONS ARE ENCOUNTERED ON SITE, THE FOOTING SHALL BE REDESIGNED.
11. CONCRETE SHALL BE GRADE N32E7 IN ACCORDANCE WITH AS1379 WITH A MAXIMUM AGGREGATE SIZE OF 20mm. THE SLUMP SHALL BE 80mm. NOMINAL.
12. IN SITUATIONS WHERE THE FOOTING IS IN BACKFILL, eg THE FINISHED GROUND LEVEL BEING HIGHER THAN THE EXISTING GROUND LEVEL, THE FOOTING SHALL BE BUILT AFTER THE GROUND HAS BEEN BACKFILLED AND COMPACTED TO THE REQUIRED SOIL STRENGTH.
13. WHERE THE FOOTING IS INSTALLED IN AN UNSEALED FOOTWAY, A SUITABLE SQUARE MASTIC EXPANSION JOINT BOX FRAME SHALL BE PROVIDED FOR THE FULL 250mm FROM THE TOP OF THE CONCRETE FOOTING TO PREVENT THE SAND FROM BEING WASHED AWAY UNDER THE CONCRETE COVERING.



SECTION A-A

SCALE 1:10

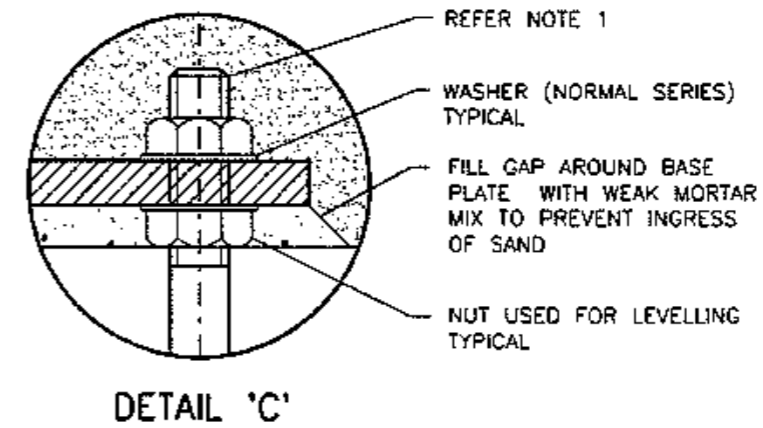
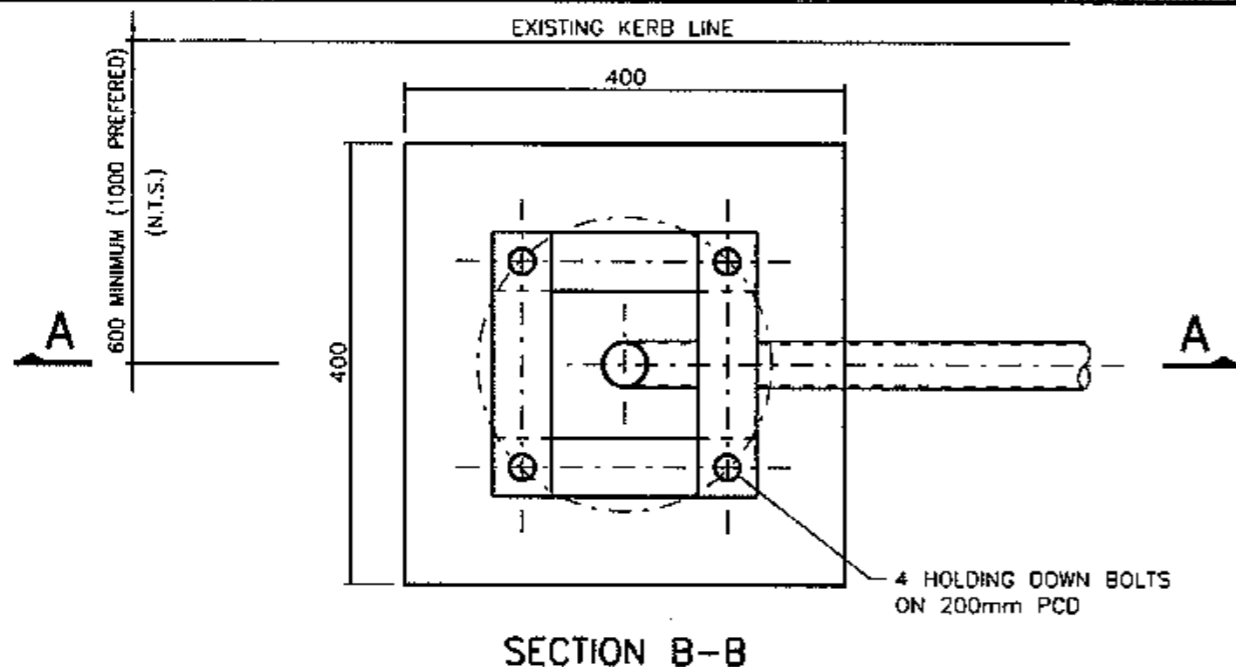
SEE NOTES 5, 6 & 7

A ORIGINAL ISSUE	B ISSUE 2003-02-03 NOTE 3 ALTERED - REF TO GREASE DELETED & MIN 4 THREADS ADDED. BWT	C ISSUE 2004-05-26 CONCRETE FOOTING DEPTH WAS 1750. REINFORCEMENT CAGE WAS 1600 LONG. FOOTING WAS 1250 DIA. TRIM BACK TOP DELETED. NOTES 9 AND 10 ADDED. BWT	D ISSUE 21-10-2011 NOTE 11 RE CONCRETE GRADE ADDED. A.K. S.W.T	E ISSUE 04-06-2015 AREA OF CONCRETE COVER REDUCED TO 900x900mm. NOTES 12 & 13 ADDED. D.B. S.W.T
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REFERENCE DRAWINGS	DRAWN RVC 13-11-02
REINFORCEMENT CAGE ME10590	CHECKED BWT 14-11-02
	PASSED BWT 14-11-02
	APPROVED
	S. K. SRIVASTAVA
	DATE 14-11-02

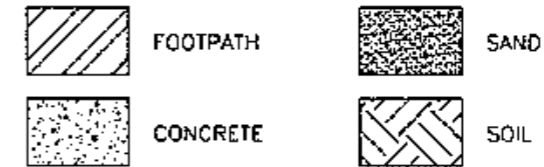
ROADS AND MARITIME SERVICES	
TRAFFIC SIGNALS	
FOOTING FOR TYPE 10 & 11 MAST ARMS	

SHEET SIZE A2	FILE NO	SCALE AS SHOWN	SHEET NO
SUPERSEDES	-	ISSUE	A/B/C/D/E
REG NO	VC002-65		



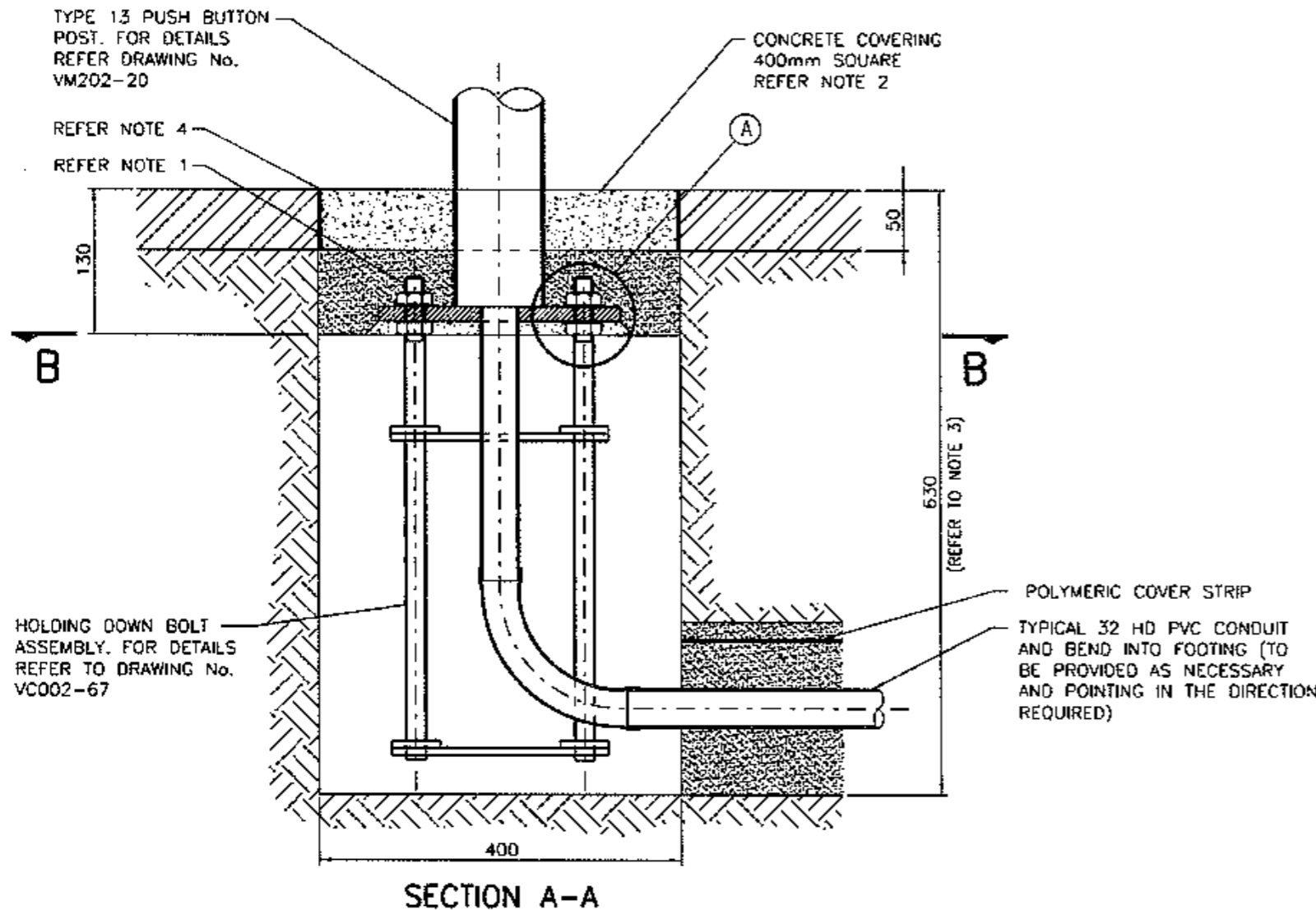
SECTION B-B

LEGEND:



NOTES:

1. A MINIMUM OF 3 THREADS TO PROTRUDE OUT OF NUT. THE EXPOSED THREAD TO BE COVERED WITH PVC TUBE OR TAPE.
2. FINISH POST MOUNTING AREA WITH 50mm CONCRETE. ASPHALT SHALL BE USED INSTEAD OF CONCRETE WHEN REQUIRED BY THE MUNICIPAL AUTHORITY.
3. THE TOTAL FOOTING DEPTH OF 500mm MAY NEED TO BE INCREASED FOR POSTS INSTALLED IN UNPAVED AREAS WITH UNSTABLE SOILS.
4. MASTIC EXPANSION JOINTS TO BE USED BETWEEN THE TOP OF POST FOOTING AND ALL CONCRETE SURFACES INCLUDING PJ PITS.
5. A PRE-CAST CONCRETE FOOTING MAY BE USED IN SPECIAL SITUATIONS, SUCH AS IN MEDIANS, ETC. THE CONDITION OF USE OF PRE-CAST FOOTINGS SHALL BE SUBJECT TO THE RMS REPRESENTATIVE'S AGREEMENT TO ENSURE THE PRE-CAST BLOCK IS OF THE CORRECT SIZE AND IS SITTING ON A LEVEL BASE OF SAND WITH A 14:1 MIXTURE OF SAND AND CEMENT, WELL COMPACTED AROUND THE ENTIRE BLOCK. THE PROPOSED USE OF SUCH A PRE-CAST FOOTING SHALL CONSTITUTE A 'HOLD POINT'.



SECTION A-A

A ORIGINAL ISSUE
 B ISSUE 02-11-2010 WASHERS WERE LARGE SERIES. DEPTH OF EXCAVATION WAS 700. AK. B.W.T.
 C ISSUE 14-09-2012 400mm² CONCRETE COVER WAS 300mm². I.H. B.W.T.
 D ISSUE 13-12-2017 NOTE 5 RE USE OF PRE-CAST FOOTING ADDED. I.H. B.W.T.

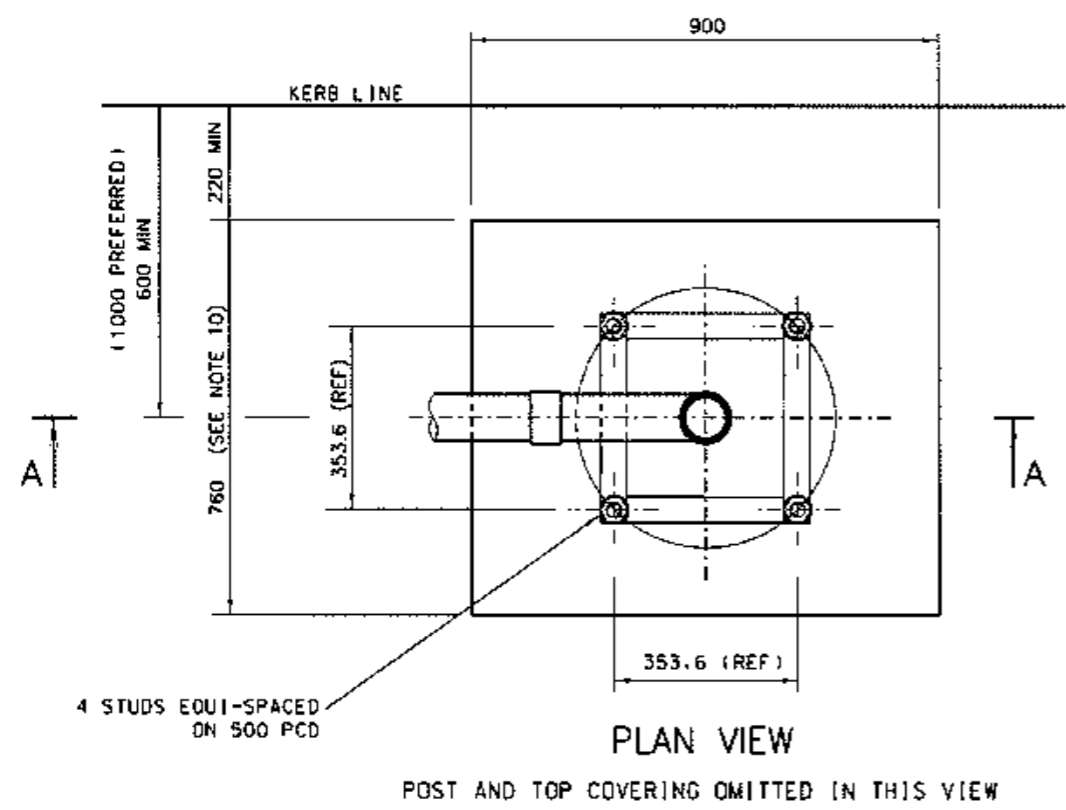
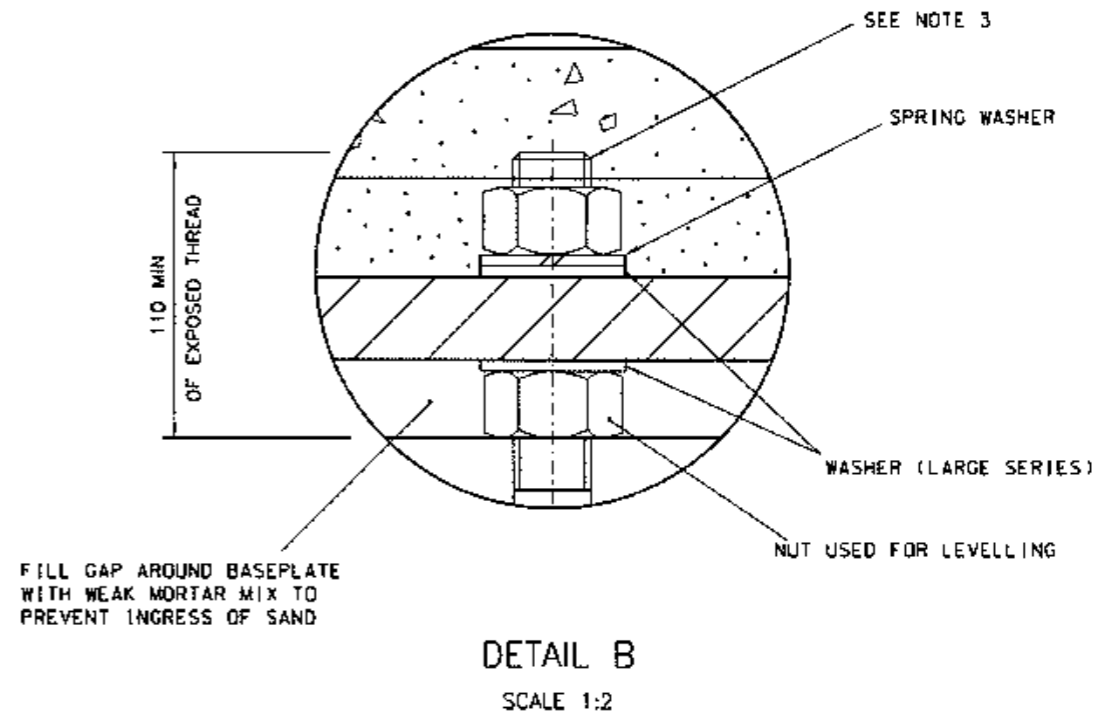
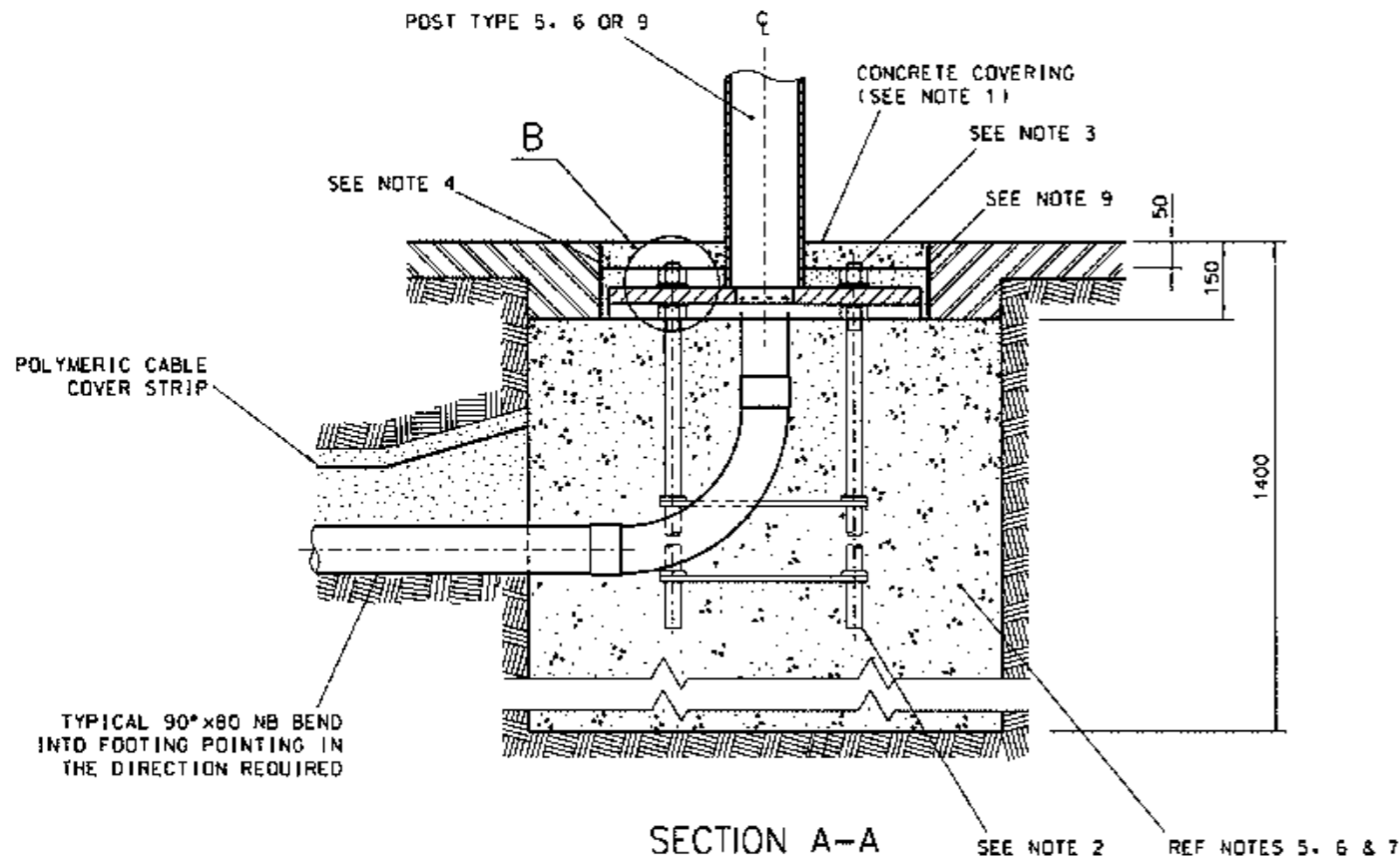
REFERENCE DRAWINGS	
Type 13 Post	VM202-20
Holding Down Bolt	VC002-67
Adaptor Plate	VM202-21

ROADS AND MARITIME SERVICES
 TRAFFIC SIGNALS

FOOTING FOR TYPE 13 PUSH BUTTON POST
 (WITH 200mm PCD HOLDING DOWN BOLT CENTRES)

SCALE	
NTS	
SUPERSEDES:	
DRAWN	T.K. 02/07/03
CHECKED	IH 2003-10-01
PASSED	B. TAYLOR 2003-11-25

APPROVED: 2003-11-27	S. SRIVASTAVA
MANAGER EQUIPMENT & STDS	
ISSUE	1 2 3 4 5 6 7 8 9 10 11 12
VC002-66	



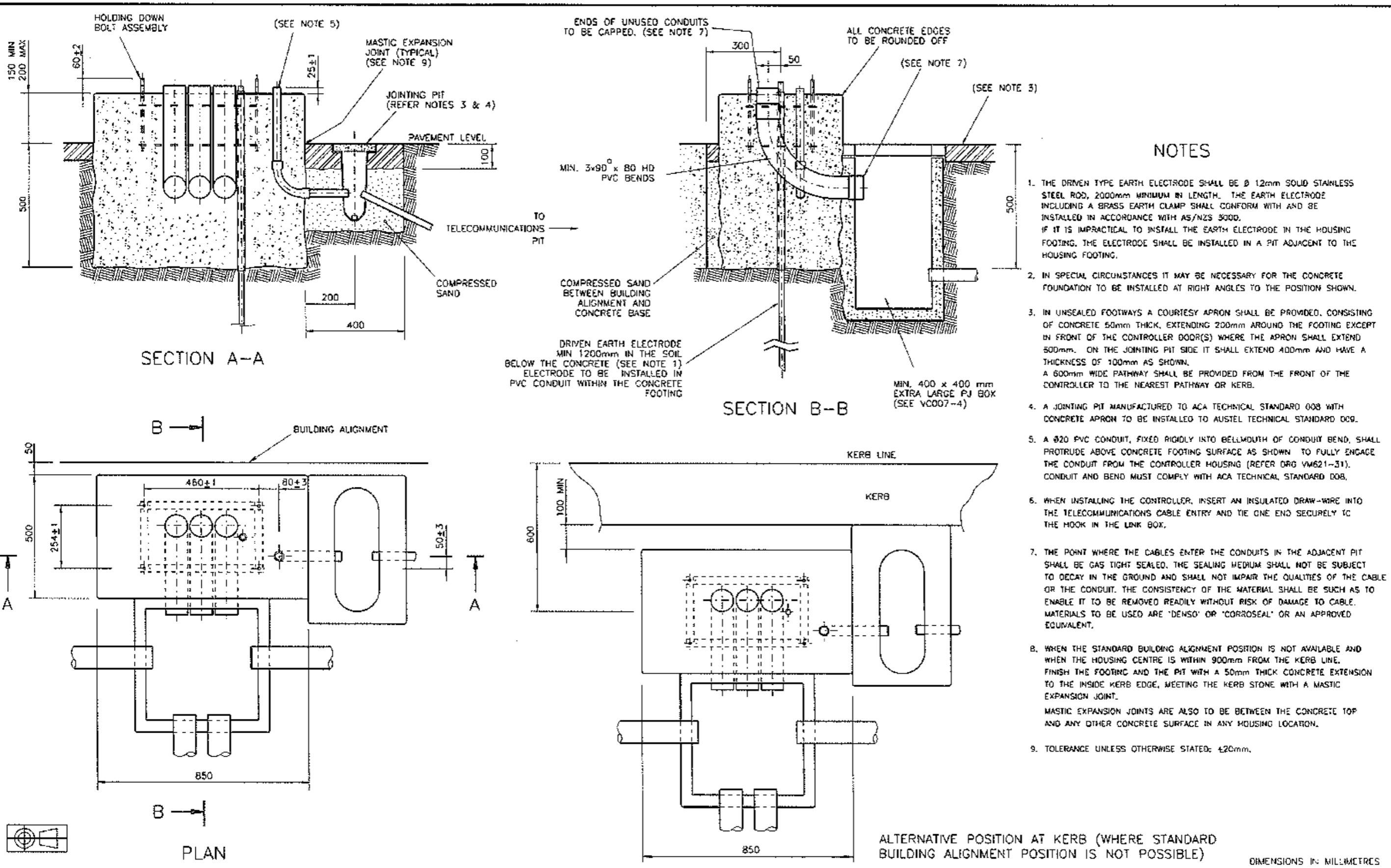
LEGEND

	FOOTPATH
	CONCRETE
	SAND

NOTES

1. FINISH MAST ARM MOUNTING AREA WITH 50mm OF CONCRETE. 700x700mm ASPHALT SHALL BE USED INSTEAD OF CONCRETE WHEN REQUIRED BY THE MUNICIPAL AUTHORITY.
2. HOLDING DOWN BOLT ASSEMBLY DETAIL SHOWN ON DRG NO. VC002-38.
3. A MINIMUM OF 3 BOLT THREADS ARE TO PROTRUDE OUT OF THE NUT. THE EXPOSED THREAD IS TO BE COVERED WITH PVC TUBE OR TAPE.
4. MASTIC (OR AN APPROVED EQUIVALENT) EXPANSION JOINTS ARE TO BE USED BETWEEN THE TOP OF THE POST FOOTING AND ALL CONCRETE SURFACES, INCLUDING PAVEMENT JUNCTION PITS.
5. THE COMPLETE FOOTING MUST BE CAST IN ONE SINGLE CONCRETE POURING OPERATION. PRECAST FOOTINGS ARE NOT TO BE USED.
6. THE FOOTING SHALL BE INSTALLED IN PREVIOUSLY UNDISTURBED AND STABLE SOIL, AND IN AN EXCAVATION SPECIALLY MADE AND INTENDED ONLY FOR THE FOOTING.
7. NO FORMWORK SHALL BE USED FOR THE FOOTING.
8. IN SITUATIONS WHERE THE FOOTING IS IN BACKFILL, eg THE FINISHED GROUND LEVEL BEING HIGHER THAN THE EXISTING GROUND LEVEL, THE FOOTING SHALL BE BUILT AFTER THE GROUND HAS BEEN BACKFILLED AND COMPACTED TO THE REQUIRED SOIL STRENGTH.
9. WHERE THE FOOTING IS INSTALLED IN AN UNSEALED FOOTWAY, A SUITABLE SQUARE MASTIC EXPANSION JOINT BOX FRAME SHALL BE PROVIDED FOR THE FULL 150mm FROM THE TOP OF THE CONCRETE FOOTING TO PREVENT THE SAND FROM BEING WASHED AWAY UNDER THE CONCRETE COVERING.
10. WHERE CONDUITS ARE TO PASS THROUGH THE FOOTING, THE WIDTH OF THE FOOTING SHALL BE INCREASED FROM 760mm TO 900mm AND THE CONCRETE SHALL BE GRADE N32E7.

A ORIGINAL ISSUE B ISSUE 05-06-2015 AREA OF CONCRETE COVER REDUCED TO 700x700mm. NOTES 8 & 9 ADDED. DB BWT C ISSUE 05-08-2016 NOTE 10 ADDED. IH BWT	REFERENCE DRAWINGS Holding-down bolt del's Types 5, 6 & 9 VC002-38 Mast arm Type 5 VM211-22 Post Type 6 VM212-1 Mast arm Type 9 VM215-1	DRAWN F. PINSON 04-12-08 CHECKED I. HAYES 25-12-2008 PASSED B. TAYLOR 25-02-09 APPROVED SUNIL SRIVASTAVA DATE 25-02-09	ROADS AND MARITIME SERVICES TRAFFIC SIGNALS	SHEET SIZE A2 FILE NO SCALE 1:10 SHEET NO
	FOOTING FOR TYPE 5 & 9 MAST ARMS AND TYPE 6 POST			SUPERSEDES - REG NO
				ISSUE A/B/C VC002-72

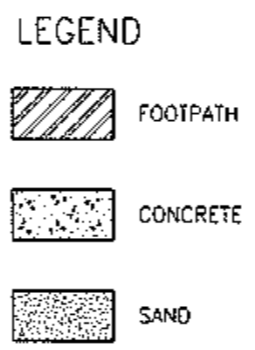
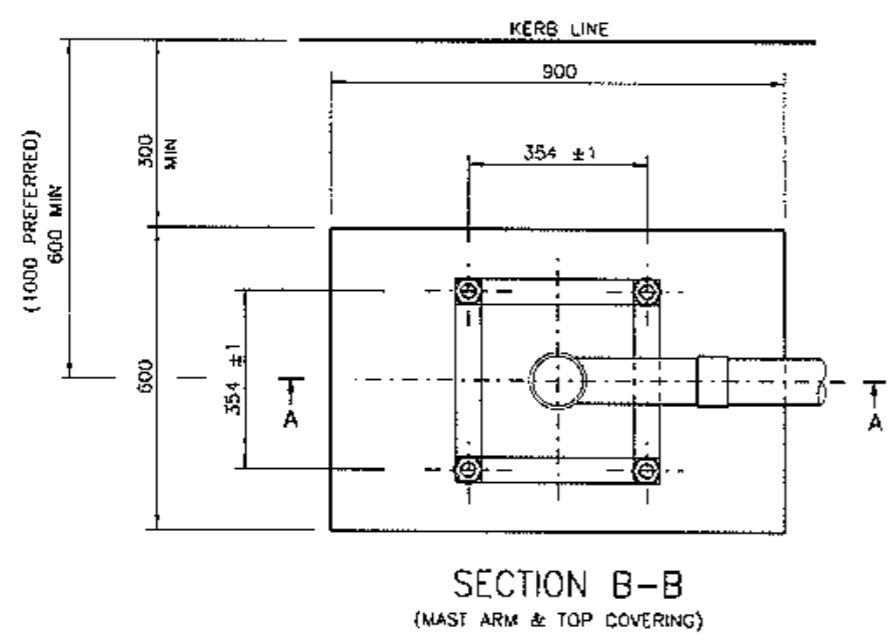
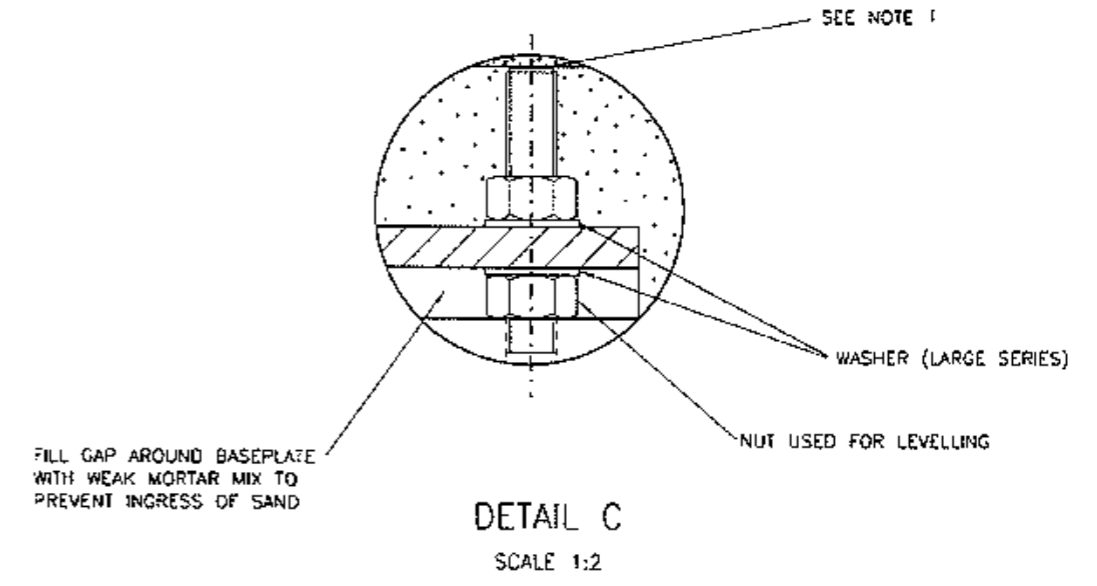
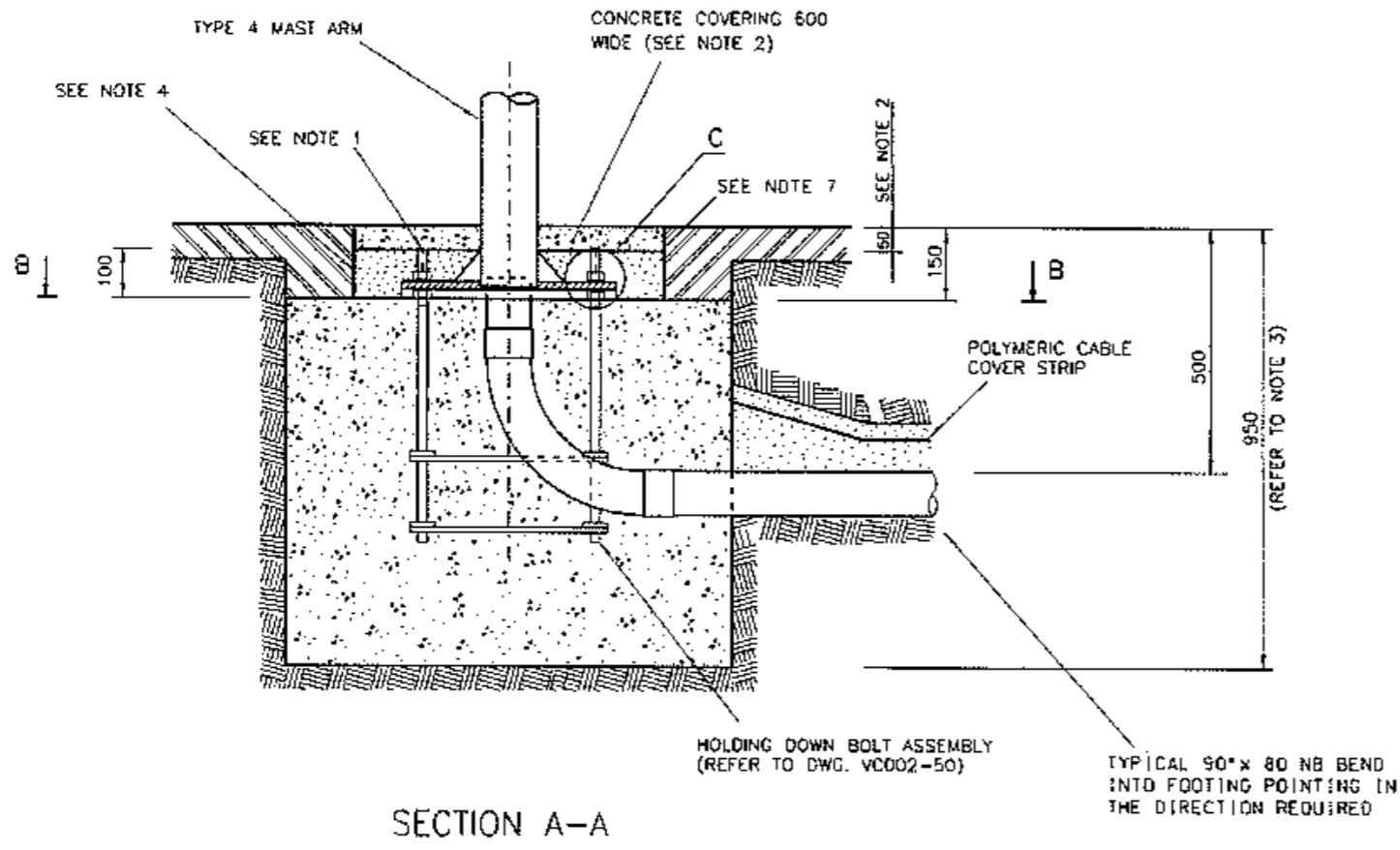


NOTES

1. THE DRIVEN TYPE EARTH ELECTRODE SHALL BE Ø 12mm SOLID STAINLESS STEEL ROD, 2000mm MINIMUM IN LENGTH. THE EARTH ELECTRODE INCLUDING A BRASS EARTH CLAMP SHALL CONFORM WITH AND BE INSTALLED IN ACCORDANCE WITH AS/NZS 3000. IF IT IS IMPRACTICAL TO INSTALL THE EARTH ELECTRODE IN THE HOUSING FOOTING, THE ELECTRODE SHALL BE INSTALLED IN A PIT ADJACENT TO THE HOUSING FOOTING.
2. IN SPECIAL CIRCUMSTANCES IT MAY BE NECESSARY FOR THE CONCRETE FOUNDATION TO BE INSTALLED AT RIGHT ANGLES TO THE POSITION SHOWN.
3. IN UNSEALED FOOTWAYS A COURTESY APRON SHALL BE PROVIDED, CONSISTING OF CONCRETE 50mm THICK, EXTENDING 200mm AROUND THE FOOTING EXCEPT IN FRONT OF THE CONTROLLER DOOR(S) WHERE THE APRON SHALL EXTEND 500mm. ON THE JOINTING PIT SIDE IT SHALL EXTEND 400mm AND HAVE A THICKNESS OF 100mm AS SHOWN. A 600mm WIDE PATHWAY SHALL BE PROVIDED FROM THE FRONT OF THE CONTROLLER TO THE NEAREST PATHWAY OR KERB.
4. A JOINTING PIT MANUFACTURED TO ACA TECHNICAL STANDARD 008 WITH CONCRETE APRON TO BE INSTALLED TO AUSTEL TECHNICAL STANDARD 009.
5. A Ø20 PVC CONDUIT, FIXED RIGIDLY INTO BELLMOUTH OF CONDUIT BEND, SHALL PROTRUDE ABOVE CONCRETE FOOTING SURFACE AS SHOWN TO FULLY ENGAGE THE CONDUIT FROM THE CONTROLLER HOUSING (REFER DRG VM621-31). CONDUIT AND BEND MUST COMPLY WITH ACA TECHNICAL STANDARD 008.
6. WHEN INSTALLING THE CONTROLLER, INSERT AN INSULATED DRAW-WIRE INTO THE TELECOMMUNICATIONS CABLE ENTRY AND TIE ONE END SECURELY TO THE HOOK IN THE LINK BOX.
7. THE POINT WHERE THE CABLES ENTER THE CONDUITS IN THE ADJACENT PIT SHALL BE GAS TIGHT SEALED. THE SEALING MEDIUM SHALL NOT BE SUBJECT TO DECAY IN THE GROUND AND SHALL NOT IMPAIR THE QUALITIES OF THE CABLE OR THE CONDUIT. THE CONSISTENCY OF THE MATERIAL SHALL BE SUCH AS TO ENABLE IT TO BE REMOVED READILY WITHOUT RISK OF DAMAGE TO CABLE. MATERIALS TO BE USED ARE 'DENSO' OR 'CORROSEAL' OR AN APPROVED EQUIVALENT.
8. WHEN THE STANDARD BUILDING ALIGNMENT POSITION IS NOT AVAILABLE AND WHEN THE HOUSING CENTRE IS WITHIN 900mm FROM THE KERB LINE, FINISH THE FOOTING AND THE PIT WITH A 50mm THICK CONCRETE EXTENSION TO THE INSIDE KERB EDGE, MEETING THE KERB STONE WITH A MASTIC EXPANSION JOINT. MASTIC EXPANSION JOINTS ARE ALSO TO BE BETWEEN THE CONCRETE TOP AND ANY OTHER CONCRETE SURFACE IN ANY HOUSING LOCATION.
9. TOLERANCE UNLESS OTHERWISE STATED: ±20mm.

DIMENSIONS IN MILLIMETRES

<p>A ORIGINAL ISSUE</p> <p>'B' ISSUE: 04/05/09 600mm PATHWAY REQUIREMENT ADDED TO NOTE 3. LC/BT</p> <p>'C' ISSUE: 03/11/2011 CONTROLLER PIT WAS MIN. 450x450mm. FOOTWAY PIT, A.K.</p> <p>'D' ISSUE: 12/12/2012 HOLDING DOWN BOLT ASSEMBLY NOW SHOWN CORRECTLY TO SCALE. EARTH ELECTRODE INSTALLED IN PVC CONDUIT ADDED. B.W.I. LC.</p> <p>'E' ISSUE: 12/09/2013 EARTH ELECTRODE DETAILS IN NOTE 1 REVISED. B.W.I. LC.</p>	<p>REFERENCE DRAWINGS</p> <table border="1"> <tr> <td>BOLT ASSEMBLY</td> <td>VC002-56</td> </tr> <tr> <td>GEN. ARRANGEMENT</td> <td>VC007-4</td> </tr> <tr> <td>EXTRA LARGE PJ BOX</td> <td>VM016-12</td> </tr> </table>	BOLT ASSEMBLY	VC002-56	GEN. ARRANGEMENT	VC007-4	EXTRA LARGE PJ BOX	VM016-12	<p>DRAWN F. PINSON 02-12-08</p> <p>CHECKED I. HAYES 08-12-08</p> <p>PASSED B. TAYLOR 4-2-2009</p> <p>APPROVED</p> <p>S. SRINASTAVA</p> <p>DATE 18-02-2009</p>	<p>ROADS AND TRAFFIC AUTHORITY NSW TRAFFIC SIGNALS</p>	<p>SHEET SIZE A2</p>	<p>FILE NO</p>	<p>SCALE 1:10</p>	<p>SHEET NO</p>
	BOLT ASSEMBLY	VC002-56											
	GEN. ARRANGEMENT	VC007-4											
	EXTRA LARGE PJ BOX	VM016-12											
			<p>FOOTING FOR GROUND-MOUNTED CONTROLLER HOUSING</p>	<p>SUPERSEDES VC002-24&55</p>	<p>ISSUE</p>	<p>REG NO</p>	<p>VC002-73</p>						



NOTES

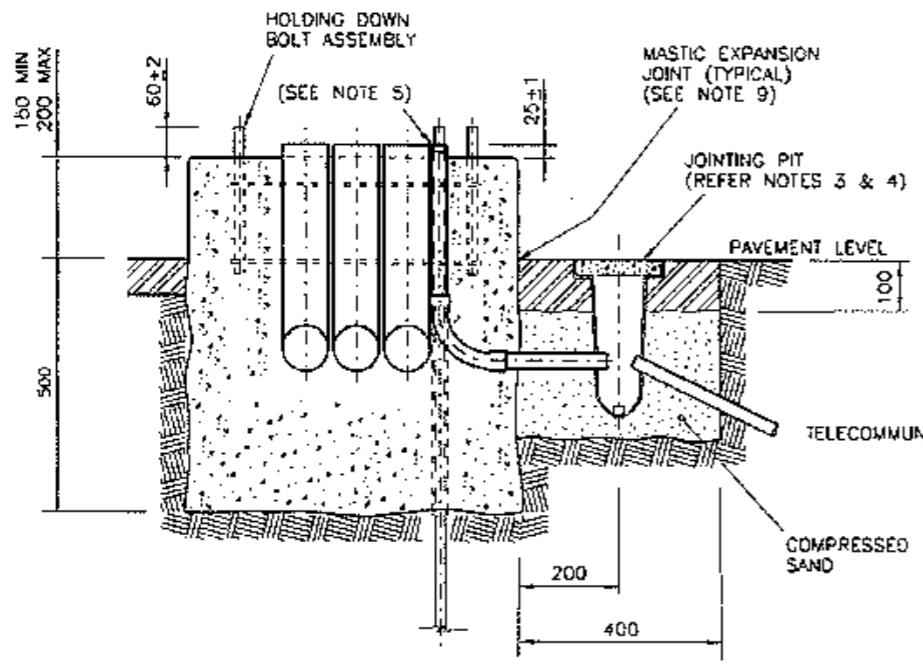
1. A MINIMUM OF 3 BOLT THREADS TO PROTRUDE OUT OF THE NUT. THE EXPOSED THREAD IS TO BE COVERED WITH PVC TUBE OR TAPE.
2. FINISH MAST ARM MOUNTING AREA WITH 50mm CONCRETE 600x600mm. ASPHALT SHALL BE USED INSTEAD OF CONCRETE WHEN REQUIRED BY THE MUNICIPAL AUTHORITY.
3. THE TOTAL FOOTING DEPTH OF 950mm MAY NEED TO BE INCREASED FOR MAST ARMS INSTALLED IN UNPAVED AREAS WITH UNSTABLE SOIL.
4. MASTIC EXPANSION JOINTS TO BE USED BETWEEN THE TOP OF MAST ARM FOOTING AND ALL CONCRETE SURFACES INCLUDING PAVEMENT JUNCTION PITS.
5. THE COMPLETE FOOTING TO BE CAST IN SITU IN ONE SINGLE CONCRETE POURING OPERATION. PRECAST FOOTING ARE NOT TO BE USED.
6. IN SITUATIONS WHERE THE FOOTING IS IN BACKFILL, eg THE FINISHED GROUND LEVEL BEING HIGHER THAN THE EXISTING GROUND LEVEL, THE FOOTING SHALL BE BUILT AFTER THE GROUND HAS BEEN BACKFILLED AND COMPACTED TO THE REQUIRED SOIL STRENGTH.
7. WHERE THE FOOTING IS INSTALLED IN AN UNSEALED FOOTWAY, A SUITABLE SQUARE MASTIC EXPANSION JOINT BOX FRAME SHALL BE PROVIDED FOR THE FULL 150mm FROM THE TOP OF THE CONCRETE FOOTING TO PREVENT THE SAND FROM BEING WASHED AWAY UNDER THE CONCRETE COVERING.

DIMENSIONS ARE IN MILLIMETRES

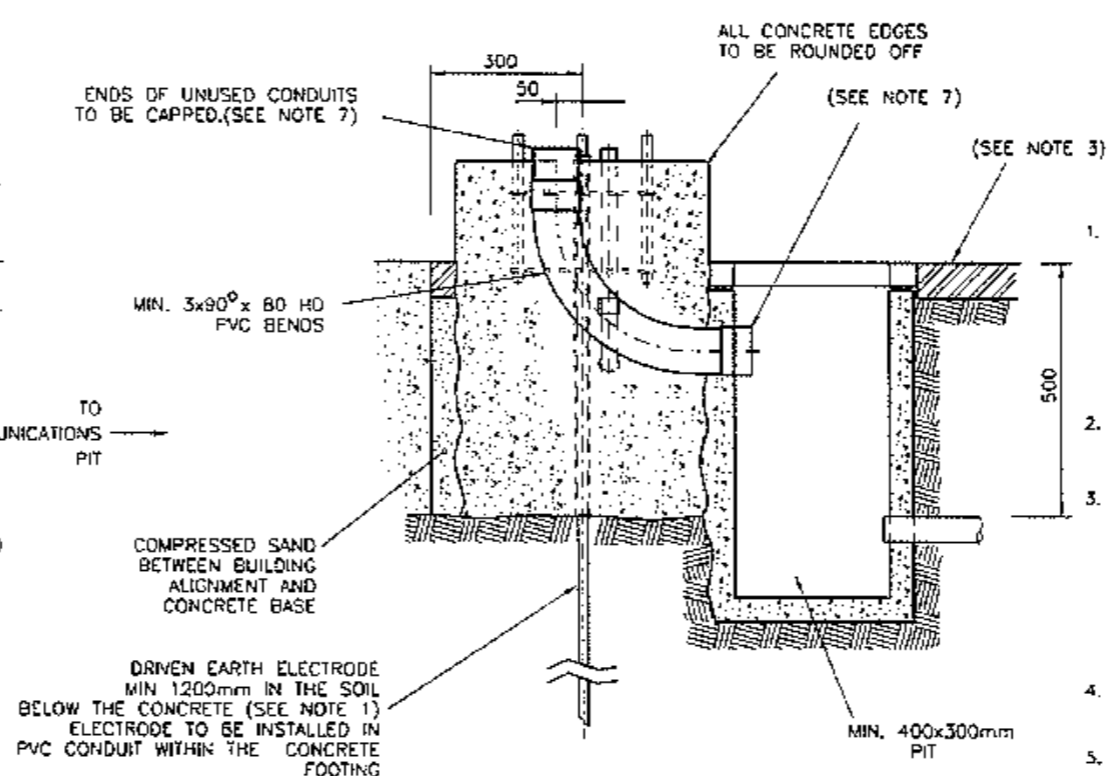
A. ORIGINAL ISSUE
 B. ISSUE 05-06-2015
 AREA OF CONCRETE COVER
 REDUCED TO 600x600mm.
 NOTES 5, 6 & 7 ADDED.
 DB BWT

REFERENCE DRAWINGS		DRAWN
TYPE 4 MAST ARM	W/203-26	S. HAYES 02-07-2009
TYP EXCAVATION	VC001-9	CHECKED B. TAYLOR 08-07-2009
BOLT ASSEMBLY	VC002-50	PASSED B. TAYLOR 08-07-2009
		APPROVED S. SRINASTAVA MANAGER STDS & QUAL DATE 08-07-2009

ROADS AND MARITIME SERVICES TRAFFIC SIGNALS		SHEET SIZE	FILE NO	SCALE	SHEET NO
		A2		1:10	
FOOTING FOR TYPE 4 MAST ARM		SUPERSEDES: -		ISSUE	A/B
		REG NO		VC002-75	



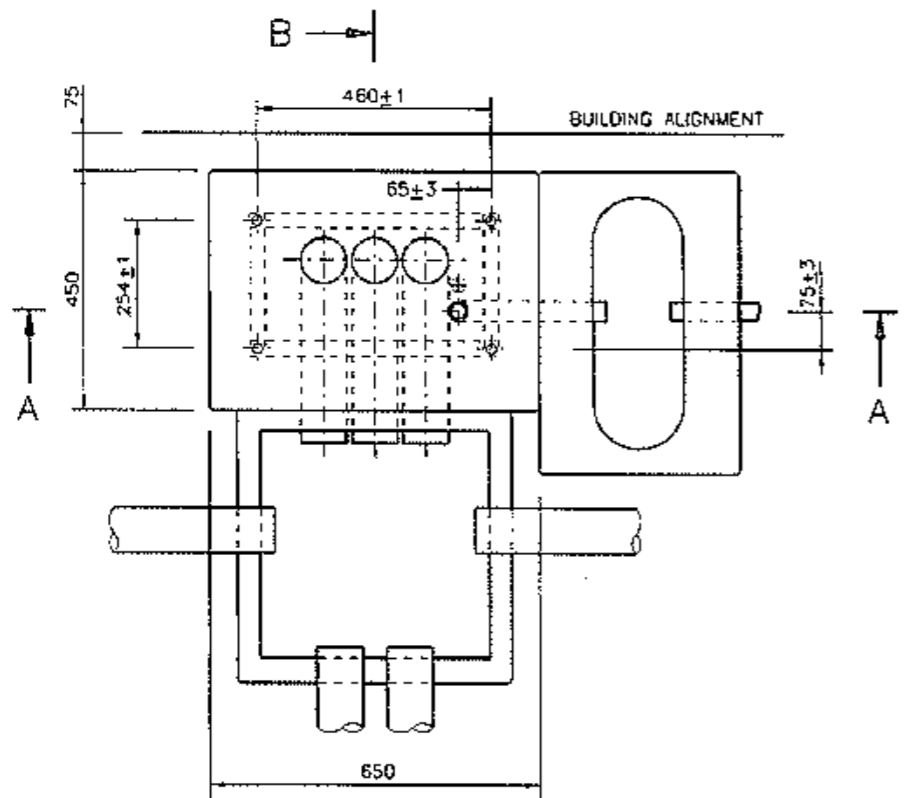
SECTION A-A



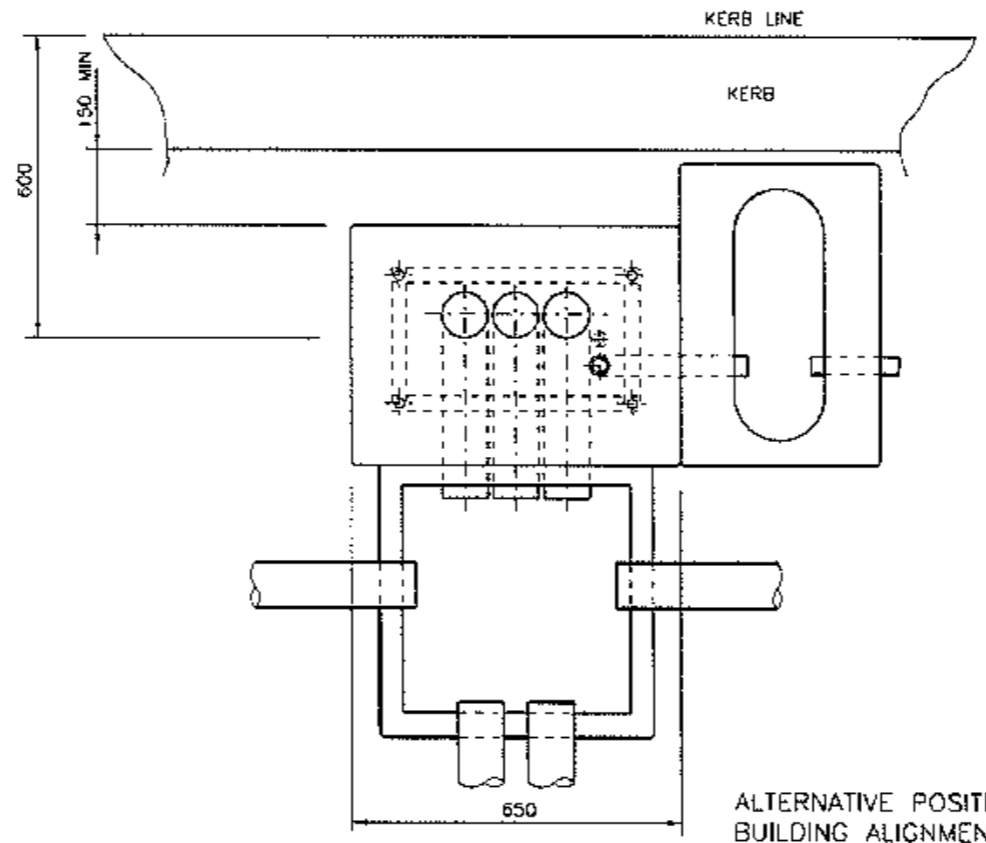
SECTION B-B

NOTES

1. THE DRIVEN TYPE EARTH ELECTRODE SHALL BE Ø 12mm SOLID STAINLESS STEEL ROD, 2000mm MINIMUM IN LENGTH. THE EARTH ELECTRODE INCLUDING A BRASS EARTH CLAMP SHALL CONFORM WITH AND BE INSTALLED IN ACCORDANCE WITH AS/NZS 3000. IF IT IS IMPRACTICAL TO INSTALL THE EARTH ELECTRODE IN THE HOUSING FOOTING, THE ELECTRODE SHALL BE INSTALLED IN A PIT ADJACENT TO THE HOUSING FOOTING.
2. IN SPECIAL CIRCUMSTANCES IT MAY BE NECESSARY FOR THE CONCRETE FOUNDATION TO BE INSTALLED AT RIGHT ANGLES TO THE POSITION SHOWN.
3. IN UNSEALED FOOTWAYS A COURTESY APRON SHALL BE PROVIDED, CONSISTING OF CONCRETE 50mm THICK, EXTENDING 200mm AROUND THE FOOTING EXCEPT IN FRONT OF THE CONTROLLER DOOR(S) WHERE THE APRON SHALL EXTEND 600mm. ON THE JOINTING PIT SIDE IT SHALL EXTEND 400mm AND HAVE A THICKNESS OF 100mm AS SHOWN. A 600mm WIDE PATHWAY SHALL BE PROVIDED FROM THE FRONT OF THE CONTROLLER TO THE NEAREST PATHWAY OR KERB.
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8. WHEN THE STANDARD BUILDING ALIGNMENT POSITION IS NOT AVAILABLE AND WHEN THE HOUSING CENTRE IS WITHIN 900mm FROM THE KERB LINE, FINISH THE FOOTING AND THE PIT WITH A 50mm THICK CONCRETE EXTENSION TO THE INSIDE KERB EDGE, MEETING THE KERB STONE WITH A MASTIC EXPANSION JOINT. MASTIC EXPANSION JOINTS ARE ALSO TO BE BETWEEN THE CONCRETE TOP AND ANY OTHER CONCRETE SURFACE IN ANY HOUSING LOCATION.
9. TOLERANCE UNLESS OTHERWISE STATED: ±20mm.
10. WHEN THE FOOTING IS USED FOR A CCTV HOUSING ADJACENT TO THE CONTROLLER FOOTING, A COMMON CABLE PIT & JOINTING PIT CAN BE USED WITHOUT THE NEED FOR THE 20mm DIA WHITE CONDUIT ENTRY OR THE EARTH ELECTRODE. THE NUMBER OF 80mm CONDUIT ENTRIES MAY BE REDUCED TO ONE FOR ALL CCTV FOOTINGS. ALL SUPPLY & CCTV ETHERNET CABLES PASSING THROUGH THE PIT & INTO THE HOUSINGS ARE TO BE SLEEVED WITH FLEXIBLE CONDUIT & LABELLED ACCORDINGLY.



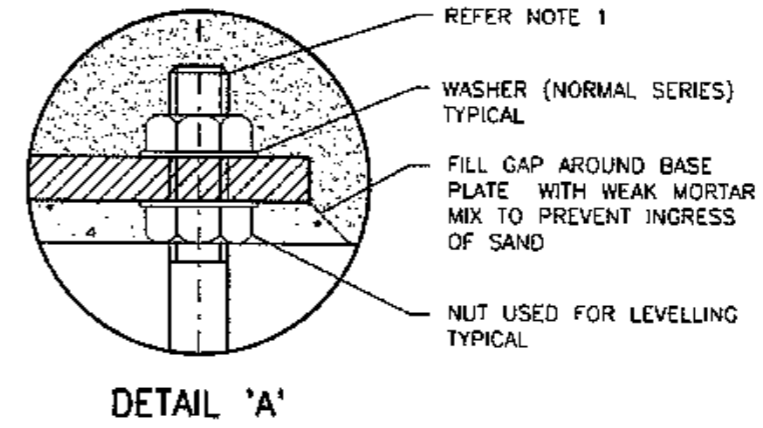
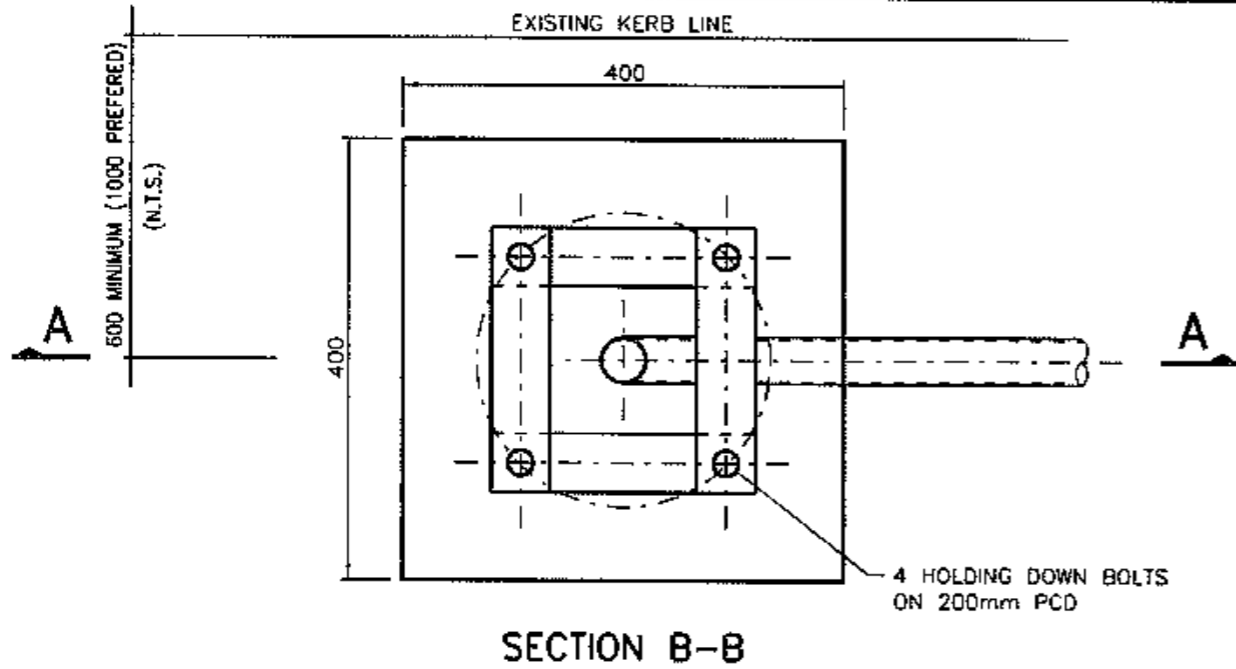
PLAN



ALTERNATIVE POSITION AT KERB (WHERE STANDARD BUILDING ALIGNMENT POSITION IS NOT POSSIBLE)

DIMENSIONS IN MILLIMETRES

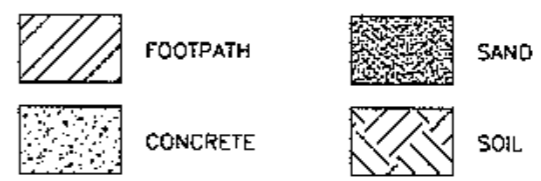
<p>A ORIGINAL ISSUE</p> <p>B ISSUE - 14/12/12 EARTH ELECTRODE INSTALLED IN PVC PIPE THROUGH FOOTING ADDED. LC. BWT.</p> <p>C ISSUE - 14/09/13 EARTH ELECTRODE DETAILS IN NOTE 1 REVISED. LC. BWT.</p>	<p>REFERENCE DRAWINGS</p> <p>BOLT ASSEMBLY VC002-56</p>	<p>DRAWN L. CLAY 13-08-09</p> <p>CHECKED I. HAYES 14-08-09</p> <p>PASSED B. TAYLOR 17-08-09</p> <p>APPROVED S. SRIVASTAVA</p> <p>DATE 17-08-09</p>	<p>ROADS AND TRAFFIC AUTHORITY NSW TRAFFIC SIGNALS</p>	<p>SHEET SIZE A2</p>	<p>FILE NO</p>	<p>SCALE 1:10</p>	<p>SHEET NO</p>	
	<p>FOOTING FOR GROUND-MOUNTED SMALL CONTROLLER & CCTV HOUSINGS</p>			<p>SUPERSEDES -</p>	<p>ISSUE A/B/C</p>	<p>REG NO</p>		<p>VC002-76</p>



TYPE 13 PUSH BUTTON POST. FOR DETAILS REFER DRAWING No. VM202-20

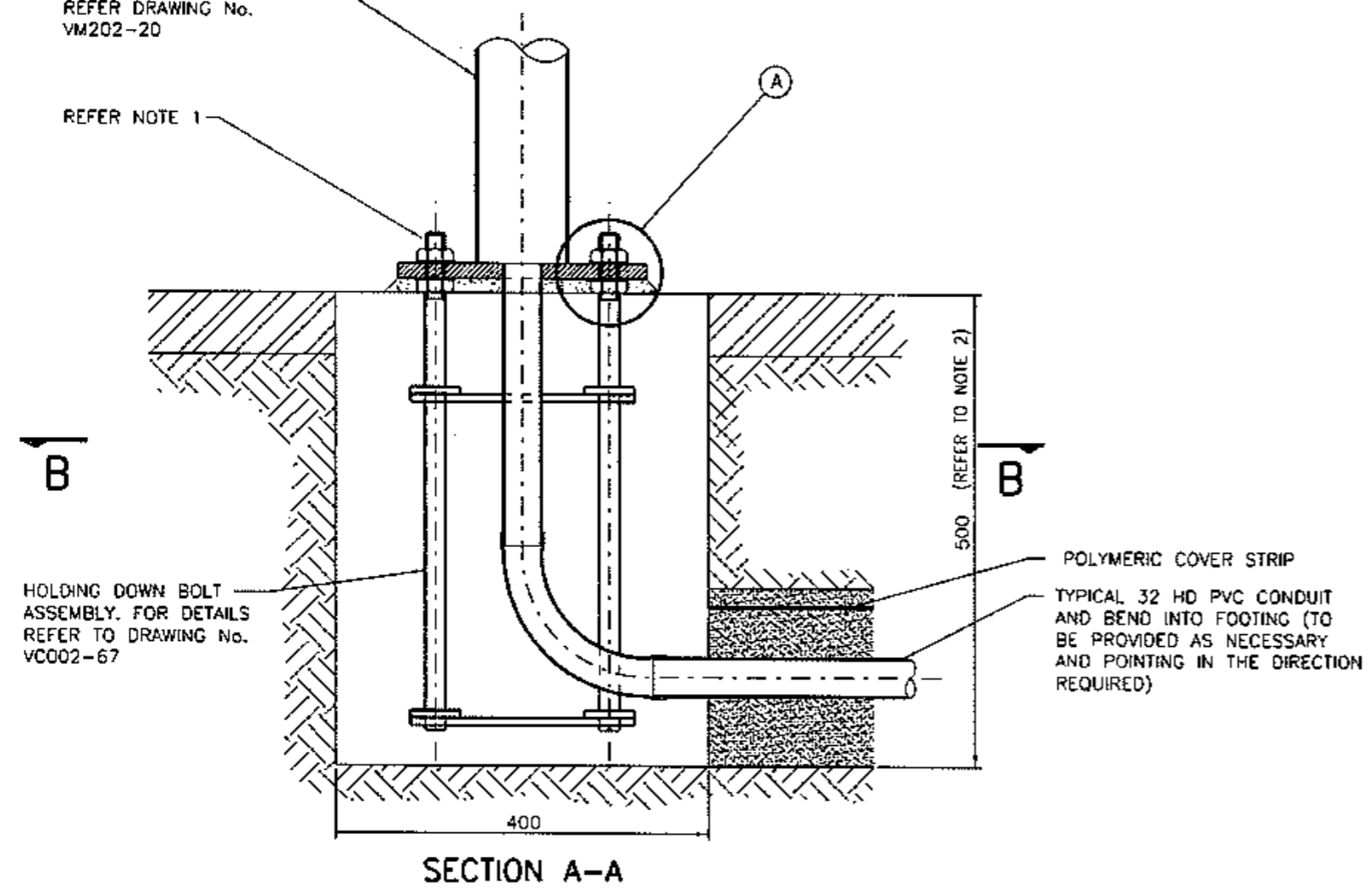
REFER NOTE 1

LEGEND:



NOTES:

1. A MINIMUM OF 3 THREADS TO PROTRUDE OUT OF NUT.
2. THE TOTAL FOOTING DEPTH OF 500mm MAY NEED TO BE INCREASED FOR POSTS INSTALLED IN UNPAVED AREAS WITH UNSTABLE SOILS.
3. A PRE-CAST CONCRETE FOOTING MAY BE USED IN SPECIAL SITUATIONS, SUCH AS IN MEDIANS, ETC. THE CONDITION OF USE OF PRE-CAST FOOTINGS SHALL BE SUBJECT TO THE RMS REPRESENTATIVE'S AGREEMENT TO ENSURE THE PRE-CAST BLOCK IS OF THE CORRECT SIZE AND IS SITTING ON A LEVEL BASE OF SAND WITH A 14:1 MIXTURE OF SAND AND CEMENT, WELL COMPACTED AROUND THE ENTIRE BLOCK. THE PROPOSED USE OF SUCH A PRE-CAST FOOTING SHALL CONSTITUTE A 'HOLD POINT'.



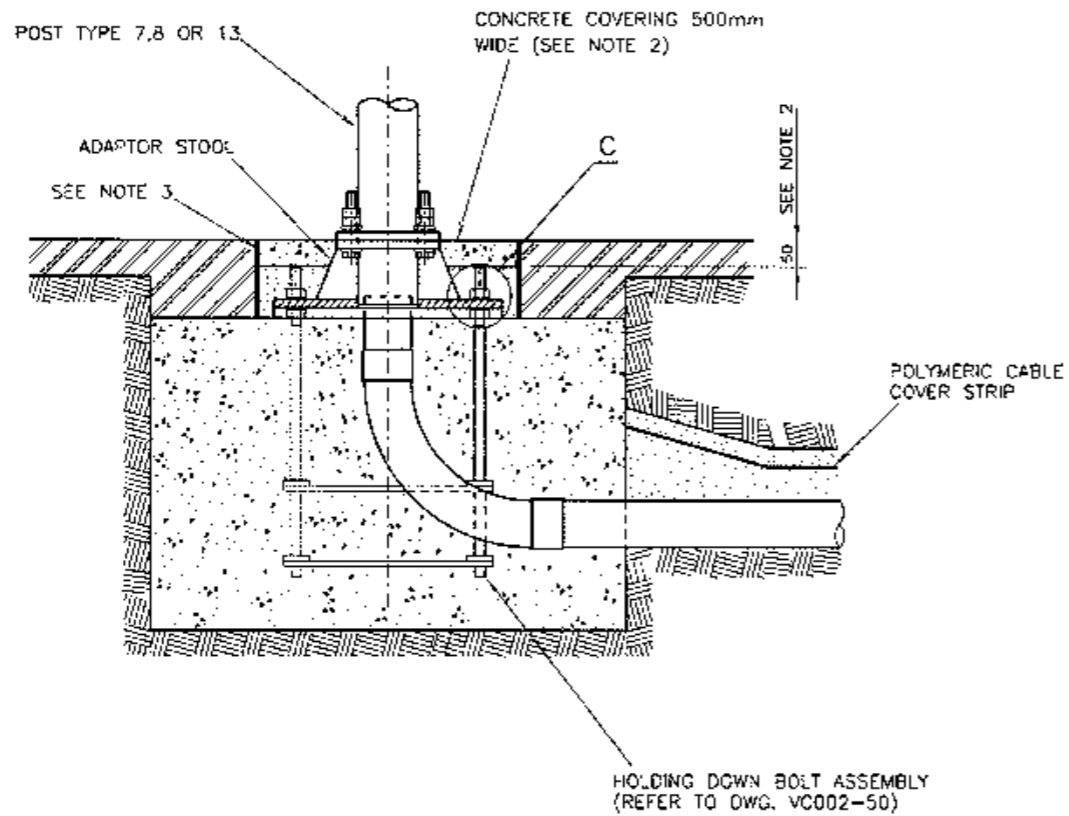
A ORIGINAL ISSUE
 B ISSUE 13-12-2017
 NOTE 3 RE USE OF
 PRE-CAST FOOTING
 ADDED. BWT
 IH

REFERENCE DRAWINGS	
Type 13 Post	VM202-20
Holding Down Bolt	VC002-67

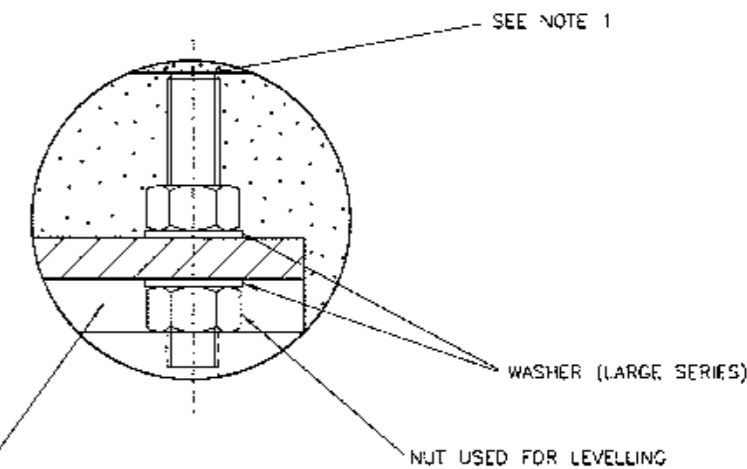
ROADS AND MARITIME SERVICES TRAFFIC SIGNALS	
ALTERNATIVE FOOTING FOR TYPE 13 PB POST WITH EXPOSED BASE PLATE ON FINAL SURFACE	

SCALE NTS	
SUPERSEDES:	
DRAWN	A.K.
CHECKED	B.W.T.
PASSED	B. TAYLOR 24-11-10

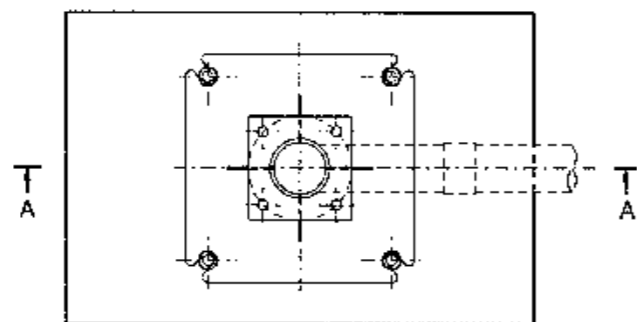
APPROVED: 24-11-10	S. SRIVASTAVA	
MANAGER EQUIPMENT & STDs		
ISSUE	A	B
VC002-78		



SECTION A-A






DETAIL C
SCALE 1:2



PLAN VIEW

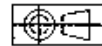
TOP COVERING REMOVED

LEGEND

-  FOOTPATH
-  CONCRETE
-  SAND

NOTES

1. A MINIMUM OF 3 BOLT THREADS TO PROTRUDE OUT OF THE NUT. THE EXPOSED THREAD IS TO BE COVERED WITH PVC TUBE OR TAPE.
2. FINISH POST MOUNTING AREA WITH 50mm CONCRETE 500x500mm. ASPHALT SHALL BE USED INSTEAD OF CONCRETE WHEN REQUIRED BY THE MUNICIPAL AUTHORITY.
3. MASTIC EXPANSION JOINTS TO BE USED BETWEEN THE TOP OF POST FOOTING AND ALL CONCRETE SURFACES, INCLUDING PAVEMENT JUNCTION FITS.

 DIMENSIONS ARE IN MILLIMETRES

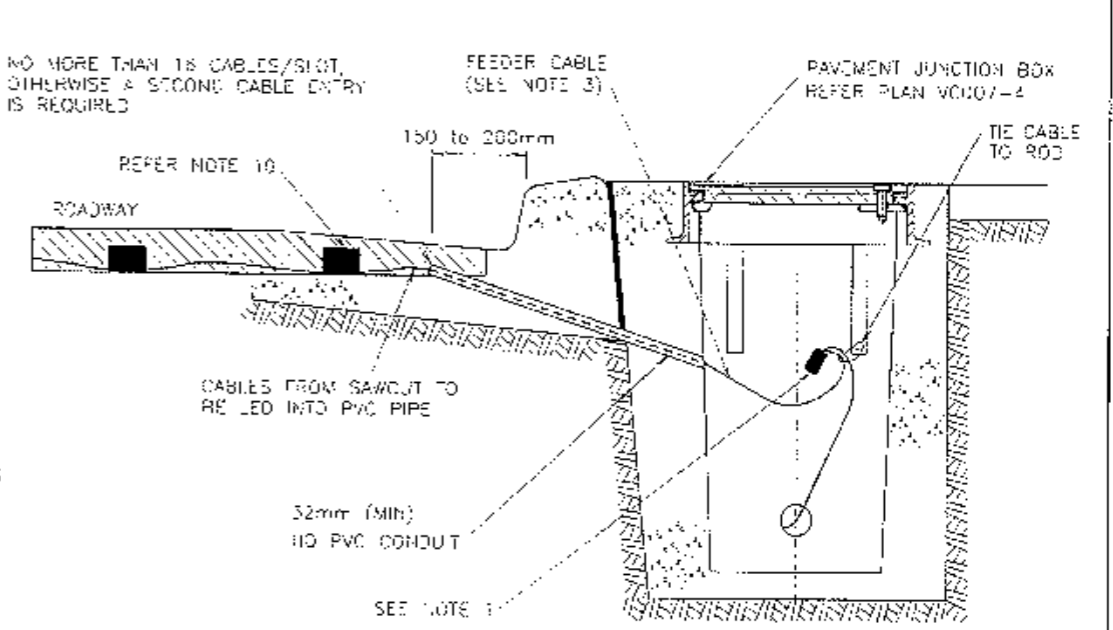
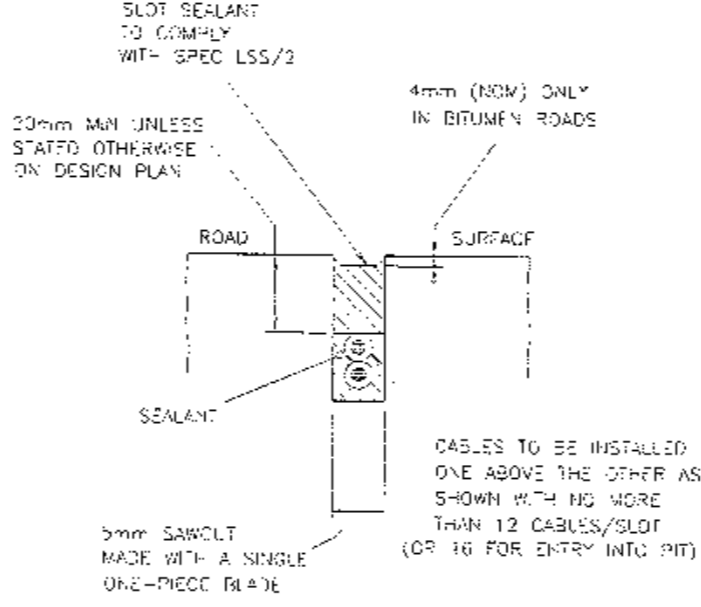
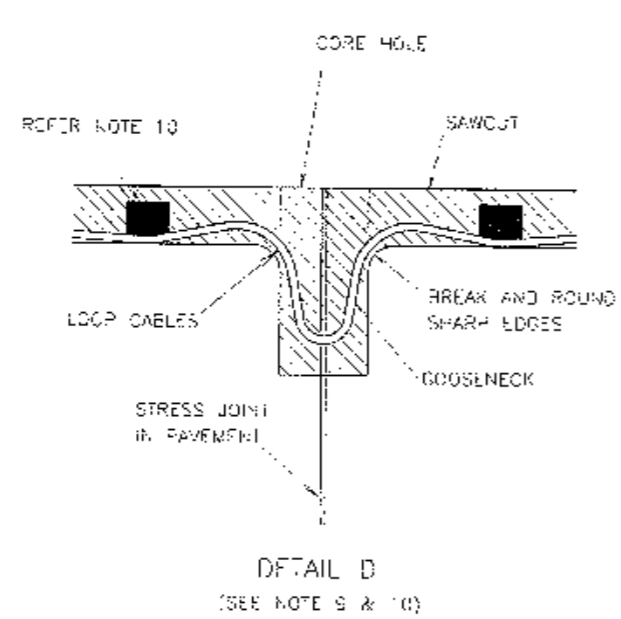
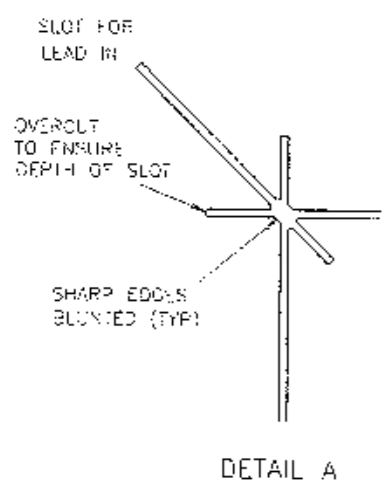
REFERENCE DRAWINGS		DRAWN	A. LIYANAGE 05/09/2017
ADAPTOR STOOL	VM202-26	CHECKED	I. HAYES 05/09/2017
TYPE 2 FOOTING	VC002-71	PASSED	B. TAYLOR
		APPROVED	
			K. SHI MANAGER STCS & QUAL.
		DATE	-

ROADS AND MARITIME SERVICES
TRAFFIC SIGNALS

METHOD OF INSTALLATION OF
AN ADAPTOR STOOL TO SUIT
TYPE 7,8 & 13 POSTS
ON AN EXISTING TYPE 2 FOOTING

SHEET SIZE	FILE NO	SCALE	SHEET NO
A2		1:10	
SUPERSEDES:		ISSUE	A
REG NO		VC002-82	

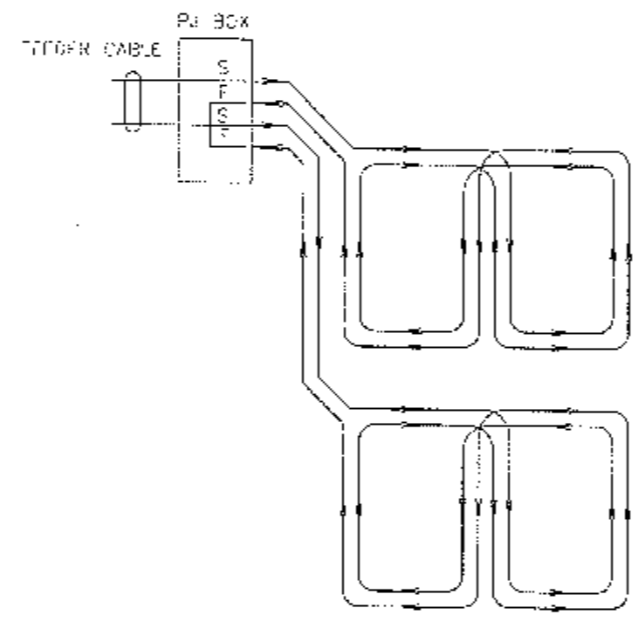
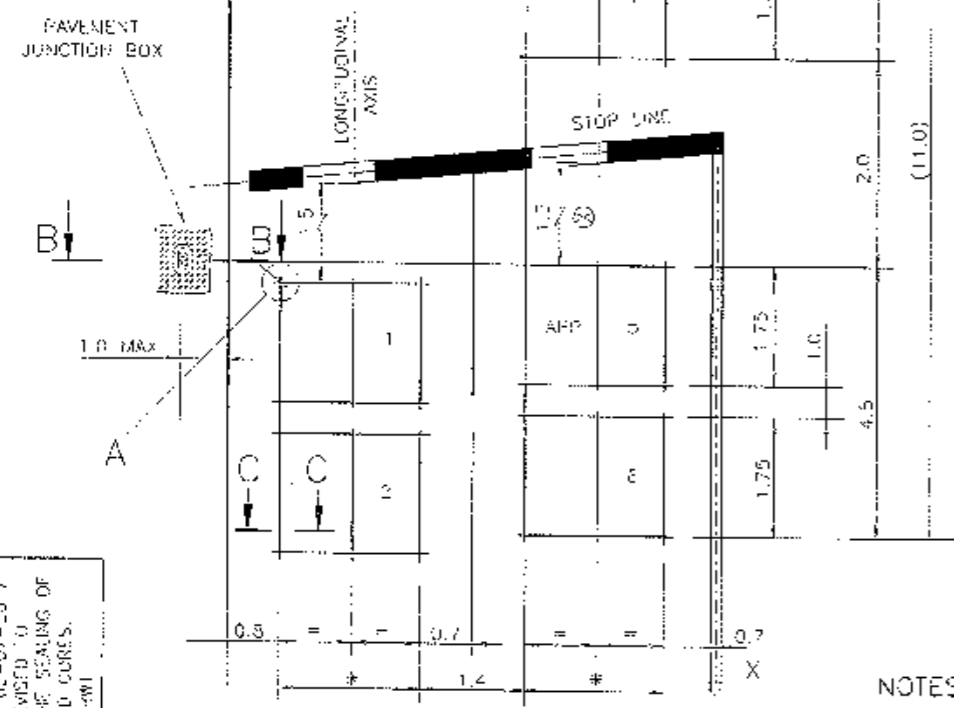
A ORIGINAL ISSUE



SECTION C-C

SECTION B-B

- * DIMENSION DERIVED FROM THE LANE WIDTH STATED ON DESIGN PLAN.
- X 0.7m DISTANCE TO BE 0.5m WHEN THE LOOP IS BESIDE THE EDGE OF A RAISED MEDIAN, PAINTED MEDIAN OR EDGE LINE.
- ⊗ DISTANCE 1.5m FROM STOP LINE UNLESS OTHERWISE STATED ON DESIGN PLAN.



TYPICAL CONNECTION & WIRING OF LOOPS

FOR DETAILS OF WIRING RULES AND ALTERNATIVE ENTRY POSITIONS REFER TO DWG VC005-19

NOTES CONT'D

13. AN ADDITIONAL PAVEMENT JUNCTION PIT SHALL BE INSTALLED FOR LOOP CABLE CONNECTIONS IF THE NUMBER OF 4.5m LOOPS EXCEEDS THREE AND THE NUMBER OF 20 CORE CABLES PASSING THROUGH THE SAME PIT EXCEEDS TWO, UNLESS OTHERWISE DIRECTED BY THE RMS REPRESENTATIVE. NOTE THAT THE 11m LOOP IS CONSIDERED TO BE 2 x 4.5m LOOPS.

NOTES

1. LOOP DETECTOR CABLE AND FEEDER CABLE SHOULD BE JOINED AND SWEATED IN FOOTPATH PITS. EACH JOINT MUST BE SEPARATELY INSULATED WITH A 6mm PD CAP HEAT SHRINK (RAYCHEM OR APPROVED EQUIVALENT). ALL UNUSED MULTIPAIR CABLE CORCS TO BE SEALED AT THE PIT WITH PD CAPS TO PREVENT THE INGRESS OF MOISTURE. AT JOINTS, APPLY METHOD SHOWN ON DRAWING VM17-4 TO FEEDER CABLE.
2. LOOP CABLE SHALL COMPLY WITH AS 2276 PART 3.
3. LOOP FEEDER CABLE SHALL COMPLY WITH AS 2276 PART 2.
4. ALL LOOPS MAY BE INSTALLED UP TO 5m FROM THE STOPLINE WHEN ROAD PAVEMENT IS UNSATISFACTORY (EXCEPT FOR NON-LOCK AND PRESENCE TIMED DETECTORS).
5. ALL LOOP CABLE ENDS TO BE LABELLED START (S), FINISH (F) AND NUMBERED AS PER THE TYPICAL INSTALLATION FROM FRONT TO REAR, LEFT TO RIGHT IN NUMERICAL ORDER REGARDLESS OF PHASE OR PA BOX POSITION.
6. ALL FEEDER CABLES TO BE LABELLED AT THE CONTROLLER END TO SHOW THE DETECTOR NUMBER AS PER DESIGN PLAN (eg. 1, 2, 3 ETC) & AT THE PIT END TO SHOW THE LOCATION OF THE LOOP IN RELATION TO THE APPROACH, eg. L, C, R, DEP, APP ETC. ADDITIONALLY, IN SITUATIONS WHERE A MULTI-PAIR CABLE IS USED, THE COLOUR OF EACH PAIR IS TO BE ALLOCATED IN THE SAME ORDER IN THE SAME ORDER ABOVE, eg. BLACK (L), RED (C), WHITE (R), BLUE (R), ORANGE (DEP), GREY (APP).
7. THE LOOP CABLE SHALL BE CONTINUOUS (ie NO JOINTS PERMITTED) BETWEEN F AND S.
8. ALL LOOP CABLE LEADS SHALL RETURN TO A PA BOX IN THE FOOTPATH (OR MEDIAN IF A MINIMUM 2 METRES WIDE). THE PAVEMENT JUNCTION PIT IS TO BE INSTALLED NO GREATER THAN 1.0m FROM THE KERB.
9. DETAIL 'D' SHOWS THE RECOMMENDED METHOD FOR PROTECTING LOOP CABLES CROSSING A STRESS JOINT.
10. FIT RETAINING WEDGES AT 300 TO 400mm SPACING TO ENSURE LOOP CABLE DOES NOT MOVE WHILE SEALANT IS APPLIED. THE WEDGE MATERIAL TO BE RESILIENT AND BE IMPERVIOUS TO WATER.
11. THE LOOP FEEDER CABLE TO BE CONTINUOUS (ie NO JOINTS PERMITTED).
12. UNLESS OTHERWISE DIRECTED, ALL LOOP ENTRY PITS SHALL BE INSTALLED ON THE APPROACH SIDE OF THE POST, WELL CLEAR OF THE KERB RAMPS. LOOP CABLE SAW-CUTS SHALL BE KEPT CLEAR OF THE PEDESTRIAN CROSSINGS WHERE POSSIBLE, DUE TO THE POSSIBILITY OF THE LOOP CABLES BECOMING EXPOSED AND CREATING A TRIP HAZARD.

10 ISSUE 02-07-2017
NOTE 1 REVISED TO INCLUDE THE SEALING OF ALL UNUSED CORES.
BWT

11 ISSUE 06-08-18 1/1 VC2547 PLAN RE-DRAWN NOTE 11 ADDED IN DETAIL A HOLE IS NO LONGER DRILLED AND CABLE TO BE BLANDED PVC. BWT	12 ISSUE 05-10-2007 NOTE 8 AMENDED TO SUIT CHANGES. BWT	13 ISSUE 22-11-2007 ALTER NOTE 2. PAVE DIM AMEND TO 4200 SPECIFIED. BWT	14 ISSUE 30-11-2009 DIMENSION 150 TO 210mm OR CABLE ENTRY DRILL HOLE ADDED TO SECTION B-B. BWT	15 ISSUE 22-02-2011 DIMENSION 150 TO THE FRONT OF THE LOOP WAS FROM THE CENTRE OF THE STOP LINE. BWT	16 ISSUE 20-08-2013 RELIEF MARKERS DELETED FROM NOTE 5. NOTE 6 REVISED TO CHANGE TO A LOOP LOCATION LABEL AT THE PIT END. BWT	17 ISSUE 11-08-2016 NOTE 2 ADDED. BWT	18 ISSUE 28-09-2016 NOTE 10 ADDED. BWT	19 ISSUE 05-05-2017 NOTE 9 REVISED. BWT
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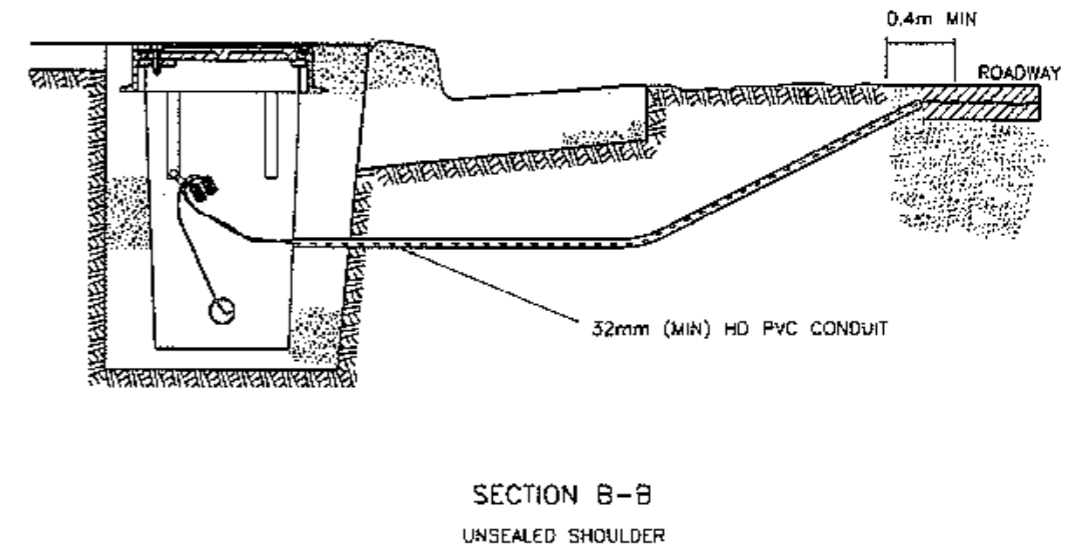
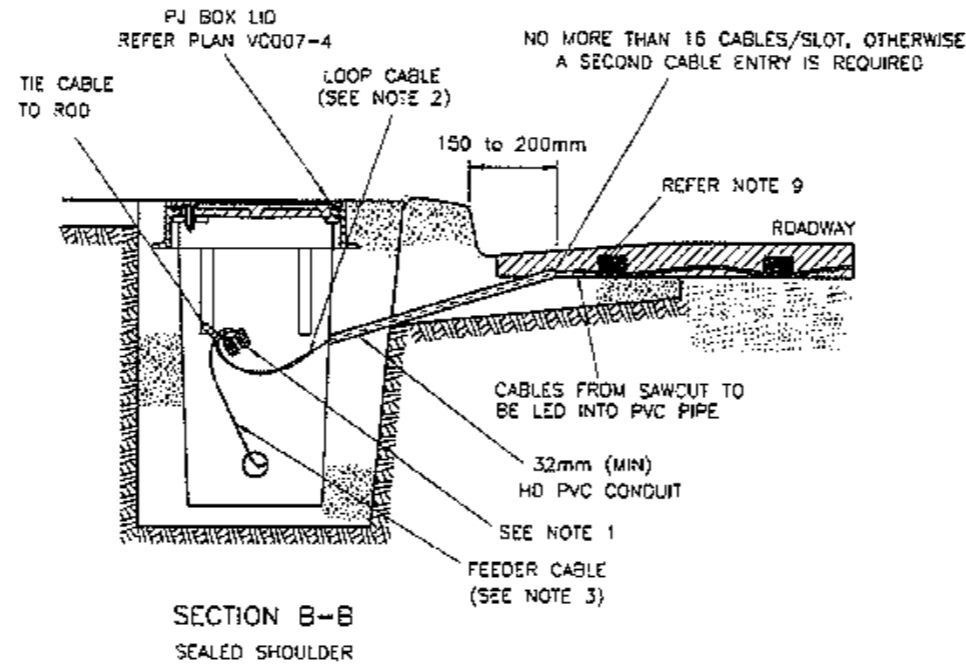
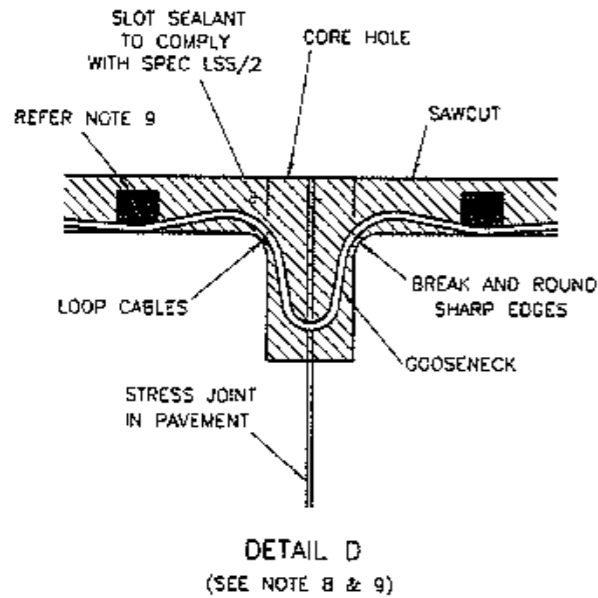
REFERENCE DRAWINGS	DRAWN A DIXON
PASS DET INSTALL VC005-15	CHECKED RE
PA BOX LID VM2016-10	PASSED BWT 27-01-85
PA BOX FIT VC007-4	APPROVED
DET WIRING GUIDE VC005-10	
STD DETECTOR DIM VC005-15	
DET TEST PROCD VC005-22	

ROADS AND MARITIME SERVICES
TRAFFIC SIGNALS

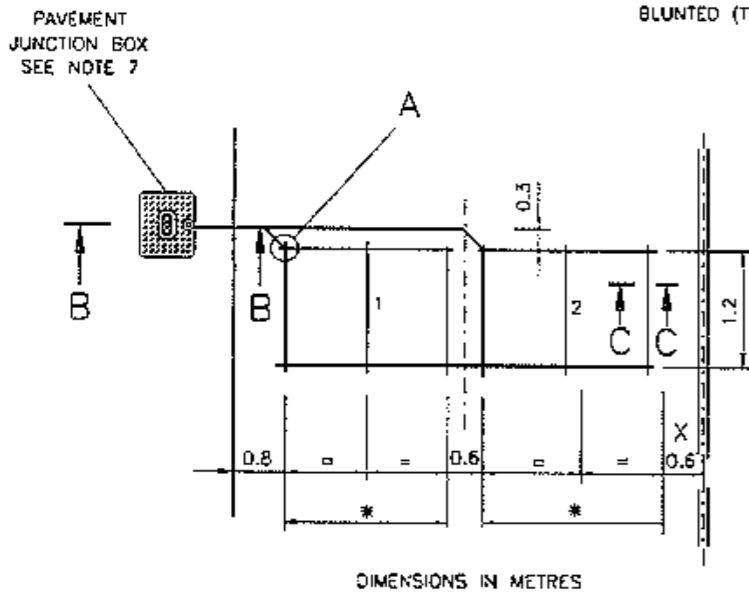
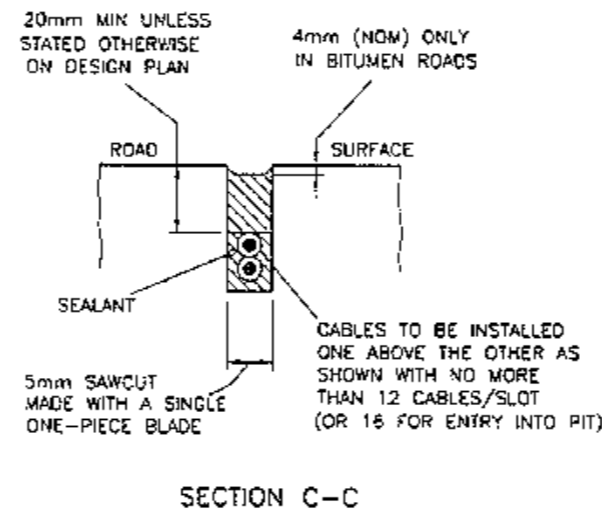
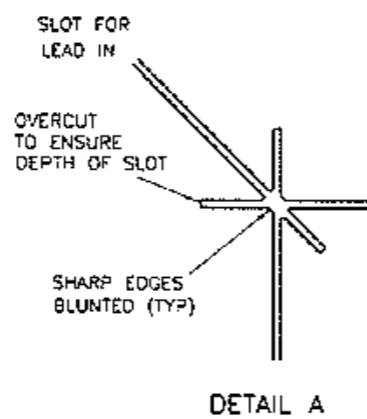
METHOD OF INSTALLATION
OF STOP LINE DETECTORS

F HULSCHER
DATE 01-07-83

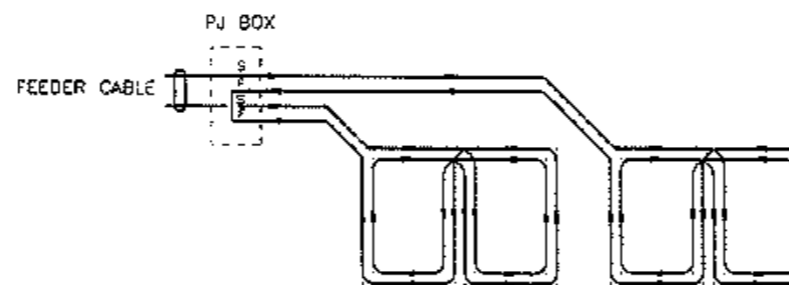
SHEET SIZE A2	FILE NO	SCALE	SHEET NO
SUFFERSIDES ISSUE 6		ISSUE	H/T/A/E/M/P/O
REG NO		VC005-17	



* DIMENSION DERIVED FROM THE LANE WIDTH STATED ON DESIGN PLAN
X 0.6m DISTANCE TO BE 0.3m WHEN THE LOOP IS BESIDE THE EDGE OF A RAISED MEDIAN OR PAINTED ISLANDS



TYPICAL INSTALLATION OF ADVANCE LOOP DETECTORS (2 LANES)



FOR DETAILS OF WIRING RULES & ALTERNATIVE ENTRY POSITIONS REFER TO PLAN VC005-19. FOR 3 LANE CONNECTIONS REFER TO NOTE 11.

NOTES

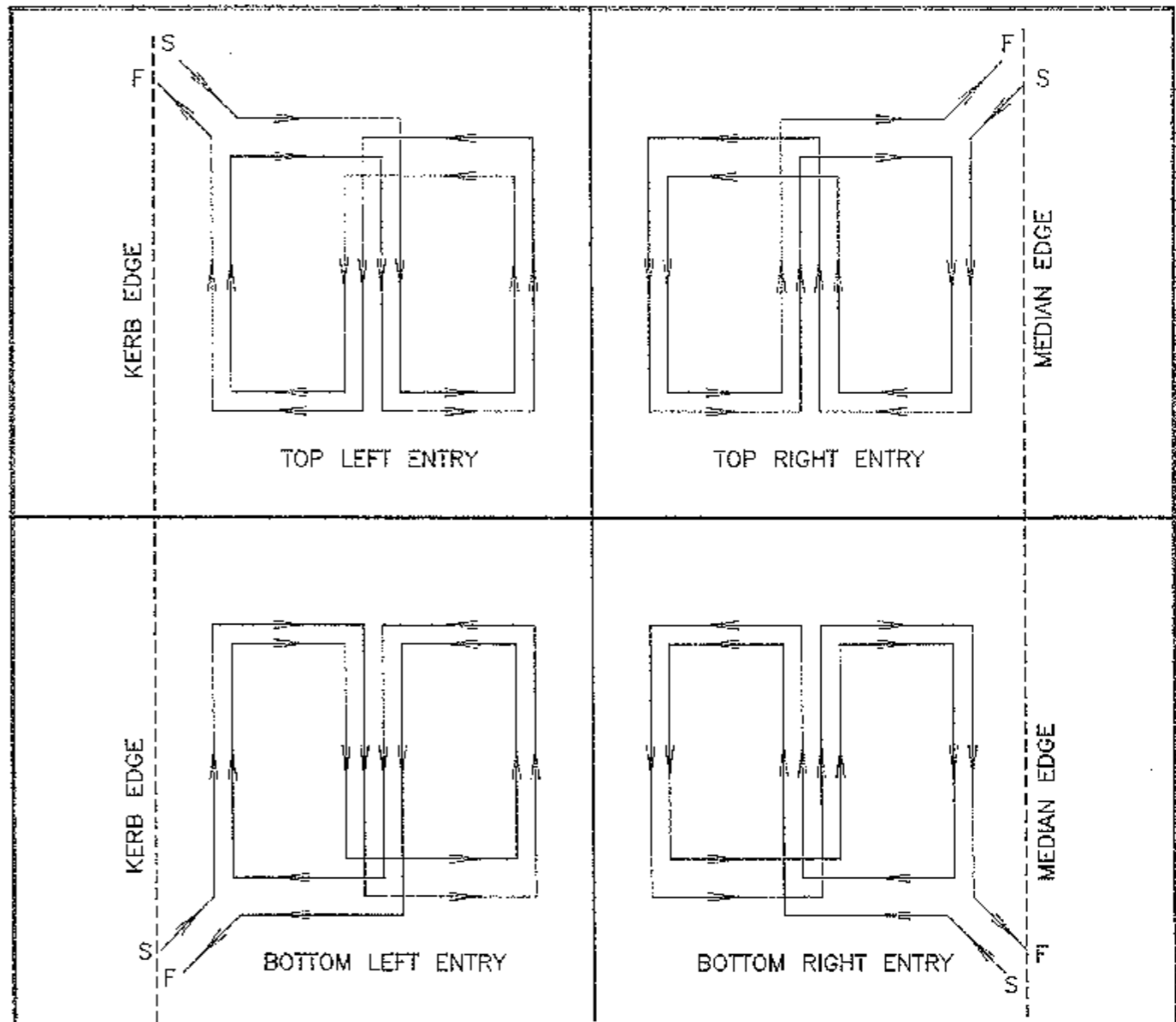
1. LOOP DETECTOR CABLE AND FEEDER CABLE SHOULD BE JOINED AND SWEATED IN FOOTPATH PITS. EACH JOINT MUST BE SEPARATELY INSULATED WITH A 6mm PD CAP (RAYCHEM HEAT SHRINK OR APPROVED EQUIVALENT). TO PREVENT THE INGRESS OF MOISTURE AT JOINTS, APPLY METHOD SHOWN ON DRAWING VM417-4 TO FEEDER CABLE.
2. LOOP CABLE SHALL COMPLY WITH AS 2276 PART 3.
3. LOOP FEEDER CABLE SHALL COMPLY WITH AS 2276 PART 2.
4. ALL LOOP CABLE ENDS TO BE LABELLED START (S), FINISH (F) AND NUMBERED AS PER THE TYPICAL INSTALLATION ie FROM LEFT TO RIGHT IN NUMERICAL ORDER REGARDLESS OF PHASE OR PJ BOX POSITION.
5. ALL FEEDER CABLES TO BE LABELLED AT THE CONTROLLER END TO SHOW THE DETECTOR NUMBER AS PER DESIGN PLAN (eg 1, 2 ETC) & AT THE PIT END TO SHOW THE LOCATION OF THE LOOP IN RELATION TO THE APPROACH eg. L, C, R, ETC.
6. THE LOOP CABLE SHALL BE CONTINUOUS (ie NO JOINTS PERMITTED) BETWEEN S AND F.
7. THE LOOP CABLE SHALL RETURN TO A PJ BOX IN THE FOOTPATH ADJACENT TO THE LOOPS.
8. DETAIL 'D' SHOWS THE RECOMMENDED METHOD FOR PROTECTING LOOP CABLES CROSSING A STRESS JOINT.
9. FIT RETAINING WEDGES AT 300 TO 400mm SPACING TO ENSURE LOOP CABLE DOES NOT MOVE WHILE SEALANT IS APPLIED. THE WEDGE MATERIAL TO BE RESILIENT AND BE IMPERVIOUS TO WATER.
10. THE LOOP FEEDER CABLE TO BE CONTINUOUS (ie NO JOINTS PERMITTED)
11. THE LOOPS FROM 2 LANES SHALL BE CONNECTED IN SERIES (AS SHOWN) IN THE PJ BOX. ie FOR 2 LANES L & R IN SERIES, FOR 3 LANES L & C IN SERIES UNLESS OTHERWISE STATED ON THE DESIGN LAYOUT.

'G' ISSUE 20-08-99
J/1 TC2548 PLAN RE-DRAWN, NOTE 7 & 10 ADDED. IN DETAIL 'A' HOLE NO LONGER DRILLED AND EDGES TO BE BLUNTED.
BWT
'H' ISSUE 30-11-09 DIMENSION 150 to 200mm FOR CABLE ENTRY DRILL HOLE ADDED TO SECTION B-B. AP
BWT
'I' ISSUE 20-8-13 HELAGRIP MARKERS DELETED FROM NOTES 4&5. NOTE 5 REVISED TO CHANGE TO A LOOP LOCATION LABEL AT THE PIT END.
LC.
BWT.

REFERENCE DRAWINGS	DRAWN AD 23-12-82
PRES DET INSTALL VC005-17	CHECKED BWT
PJ BOX LID VM015-10	PASSED BWT 23-12-82
PJ BOX PIT VC007-4	APPROVED
DET WIRING GUIDE VC005-19	F. HULSCHER
DET TEST PROCED VC005-22	DATE 01-02-1989

ROADS AND TRAFFIC AUTHORITY NSW TRAFFIC SIGNALS	
METHOD OF INSTALLATION OF ADVANCE DETECTORS	

SHEET SIZE A2	FILE NO	SCALE	SHEET NO
SUPERSEDES ISSUE F		ISSUE 2/1/1	
REG NO		VC005-18	



N.B. REAR LOOP SECTION NOT SHOWN.

WIRING RULES

1. MARK 'START' AT END OF CABLE.
2. ALWAYS START OFF IN A CLOCKWISE DIRECTION ON ENTRY FROM KERB.
3. ALWAYS CHANGE DIRECTION AT THE CENTRE (LONGITUDINAL) CUT TO MAKE A 'FIGURE 8' PATTERN.
4. ALWAYS FORM TWO 'FIGURE 8' PATTERNS FOR EACH LOOP SECTION.

D ISSUE 11-8-89
 1/1 TC2549 PLAN
 REDRAWN. 380
 1/1/89

REFERENCE DRAWINGS	
STD DETECTOR DIM'S	VC005-15
METHOD OF INSTALL	VC005-17
TEST PROCEDURE	VC005-22

ROADS AND TRAFFIC AUTHORITY OF NSW
TRAFFIC SIGNALS

SCALE

APPROVED: 1989-12-21

FR HULSCHER

SYMMETRIPOLE TYPE LOOP DETECTOR
WIRING GUIDE FOR 4 POSSIBLE
ENTRY POSITIONS

SUPERSEDES: C ISSUE

SUPERVISING ENGINEER

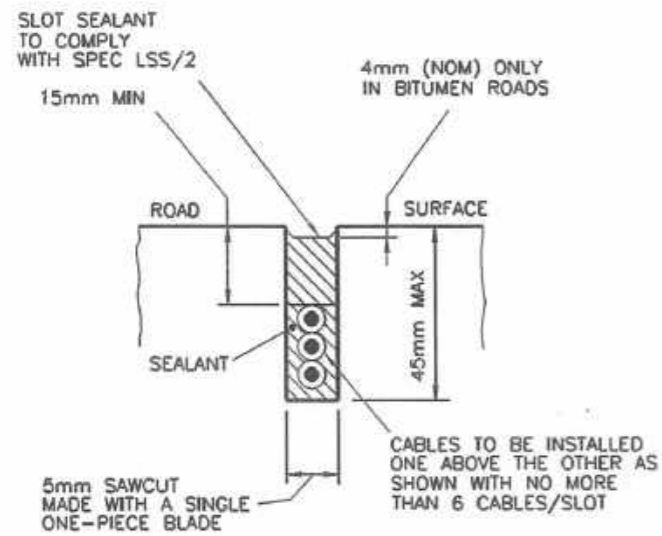
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ISSUE D

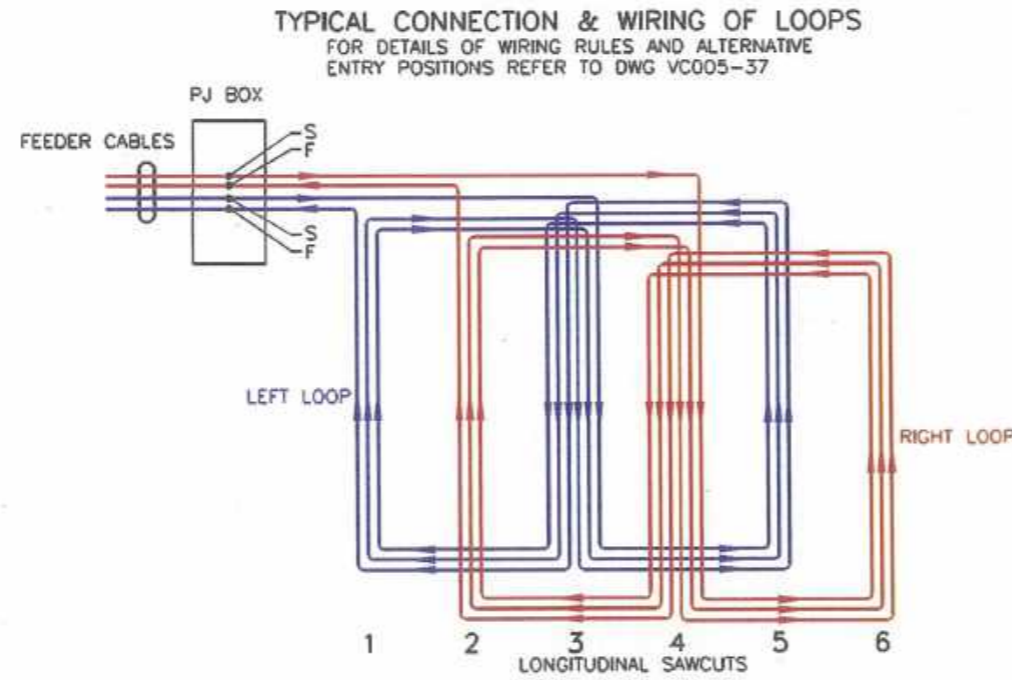
CHECKED BT 21-12-89

PASSED BT 21-12-89

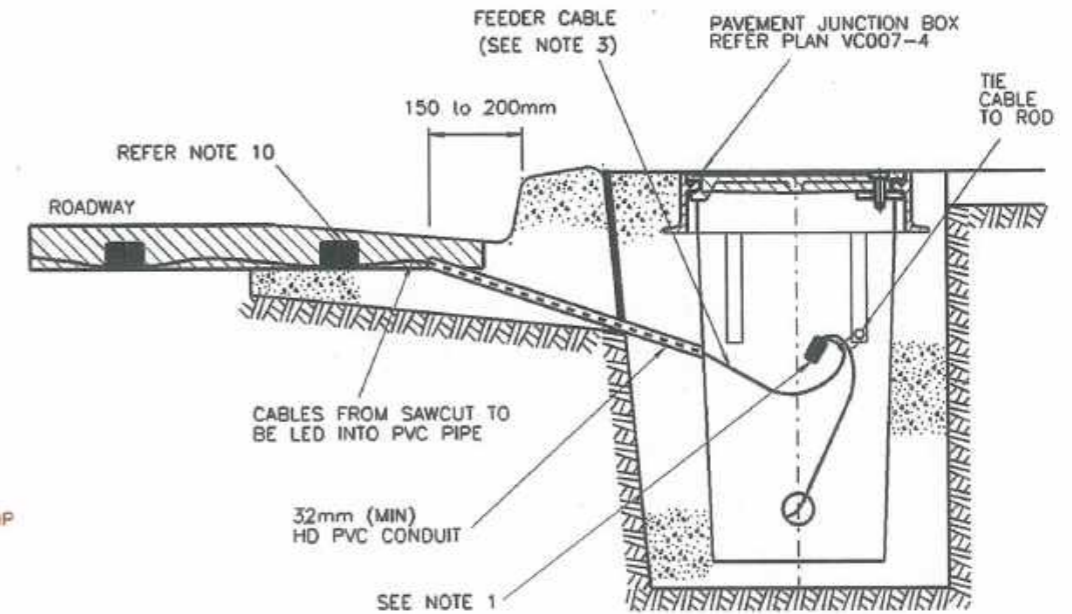
VC005-19



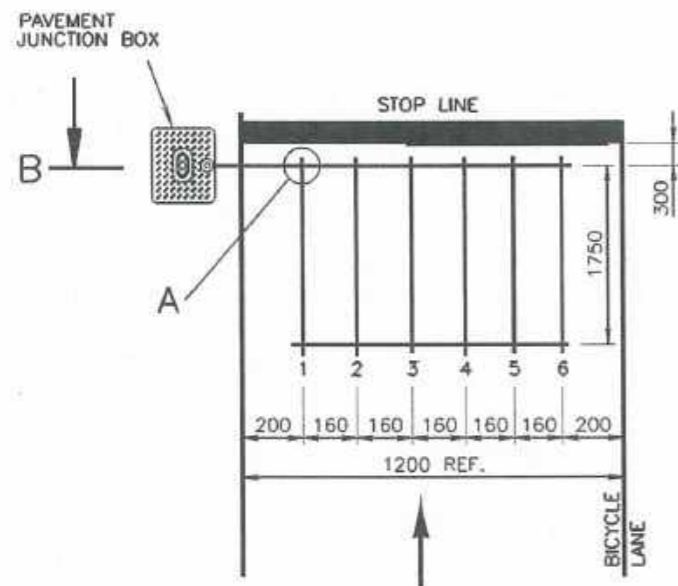
SECTION C-C



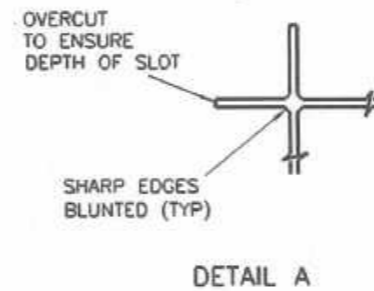
THE TWO IDENTICAL QUADRUPOLE LOOPS REQUIRED FOR EACH BICYCLE LANE APPROACH ARE TO BE INSTALLED IN ADJACENT LONGITUDINAL SAWCUTS.



SECTION B-B



DIMENSIONS IN MILLIMETRES (NTS)
TYPICAL INSTALLATION OF BICYCLE STOP LINE DETECTORS



NOTES

1. LOOP DETECTOR CABLE AND FEEDER CABLE SHOULD BE JOINED AND SWEATED IN FOOTPATH PITS. EACH JOINT MUST BE SEPARATELY INSULATED WITH A 6mm PD CAP HEAT SHRINK, (RAYCHEM OR APPROVED EQUIVALENT). TO PREVENT THE INGRESS OF MOISTURE AT JOINTS, APPLY METHOD SHOWN ON DRAWING VM417-4 TO FEEDER CABLE.
2. LOOP CABLE SHALL COMPLY WITH AS 2276 PART 3.
3. LOOP FEEDER CABLE SHALL COMPLY WITH AS 2276 PART 2.
4. ALWAYS FORM THREE "FIGURE 8" PATTERNS FOR EACH LOOP SECTION AS SHOWN IN WIRING OF LOOPS DETAIL.
5. ALL LOOP CABLE ENDS TO BE LABELLED START (S), FINISH (F) WITH HELIGRIP (HG2-5) OR EQUIVALENT AND NUMBERED AS PER THE TYPICAL INSTALLATION ie FROM LEFT TO RIGHT IN NUMERICAL ORDER REGARDLESS OF PHASE OR P.J. BOX POSITION.
6. ALL FEEDER CABLES TO BE LABELLED (HELIGRIP HQ4-9 OR EQUIVALENT) AT EACH END TO SHOW THE DETECTOR NUMBER AS PER DESIGN PLAN (eg 1, 2, 3 ETC).
7. THE LOOP CABLE SHALL BE CONTINUOUS (ie NO JOINTS PERMITTED) BETWEEN F AND S
8. ALL LOOP CABLE LEADS SHALL RETURN TO A P.J. BOX IN THE FOOTPATH THE PAVEMENT JUNCTION PIT IS TO BE INSTALLED NO GREATER THAN 1.0 m FROM THE KERB.
9. FIT RETAINING WEDGES AT 300 TO 400mm SPACING TO ENSURE LOOP CABLE DOES NOT MOVE WHILE SEALANT IS APPLIED. THE WEDGE MATERIAL TO BE RESILIENT AND BE IMPERVIOUS TO WATER.
10. THE LOOP FEEDER CABLE TO BE CONTINUOUS (ie NO JOINTS PERMITTED)
11. LEFT LOOP CABLE TO BE INSTALLED IN THE LONGITUDINAL SAWCUTS 1,3 AND 5. RIGHT LOOP CABLE TO BE INSTALLED LONGITUDINAL SAWCUTS 2,4 AND 6.
12. THE DIMENSIONS SHOWN IN THE TYPICAL INSTALLATION IS FOR A 1.2m WIDE BICYCLE LANE IF THE LANE WIDTH IS GREATER THEN 1.2m THEN THE SPACE BETWEEN THE LONGITUDINAL SAWCUTS CAN BE INCREASED EVENLY UP TO A MAX OFF 300mm.
13. THE TWO LOOPS ARE TO BE ALLOCATED SEPARATE DETECTOR INPUT NUMBERS AND ARE TO BE CONNECTED TO SEPARATE SENSORS IN THE CONTROLLER AND EACH LOOP TO BE LABELLED L (LEFT) AND R (RIGHT). eg. "C1L" AND "C1R".

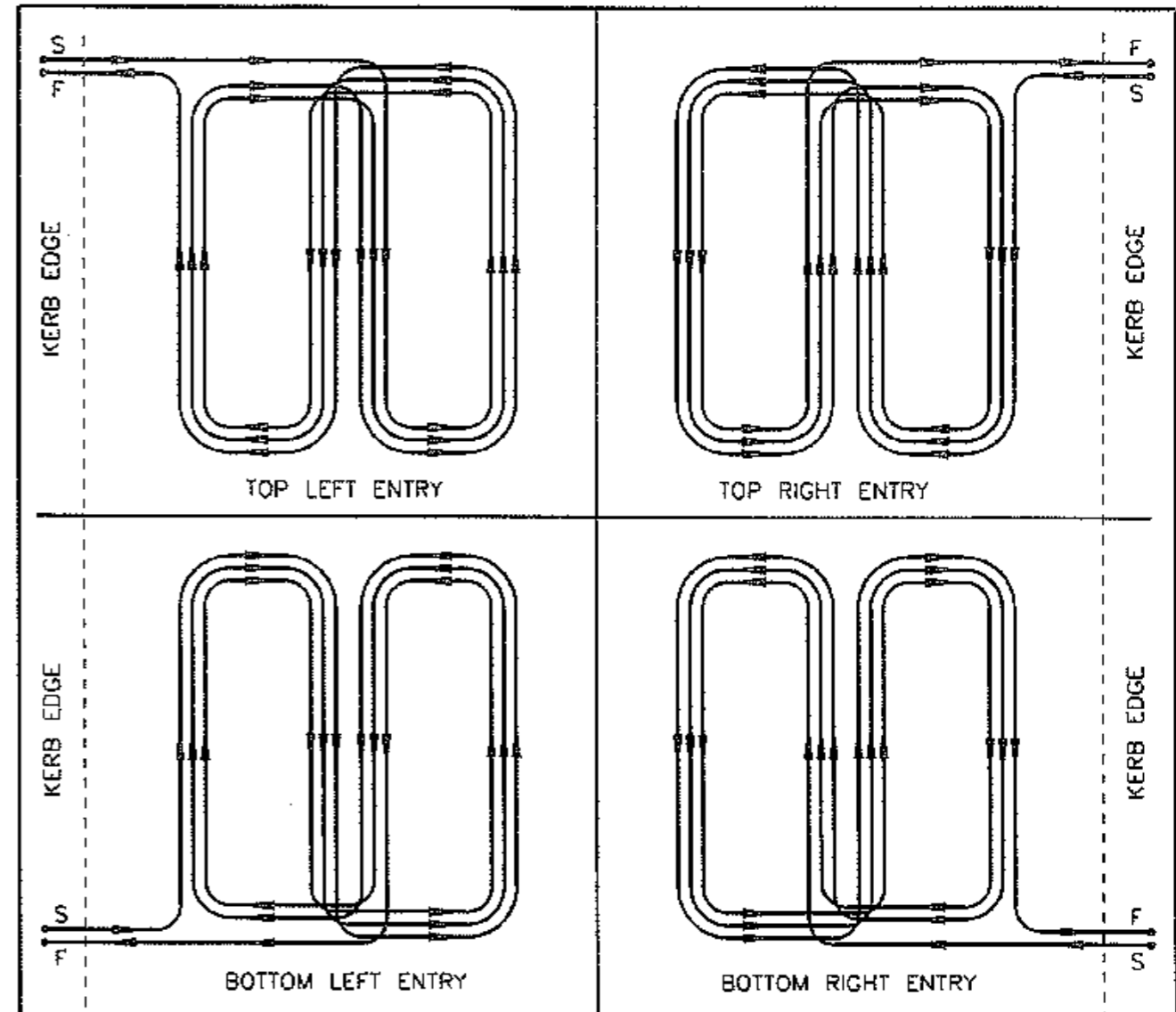
ORIGINAL ISSUE

REFERENCE DRAWINGS		DRAWN
P.J. BOX LID	VM018-10	D. BAIGORRIA
P.J. BOX PIT	VC007-4	CHECKED B. TAYLOR
DET WIRING GUIDE	VC005-37	PASSED B. TAYLOR
		APPROVED
		SUNIL SRIVASTAVA
		DATE 06-06-2012

ROADS AND MARITIME SERVICES
TRAFFIC SIGNALS

METHOD OF INSTALLATION
OF BICYCLE STOP LINE DETECTORS

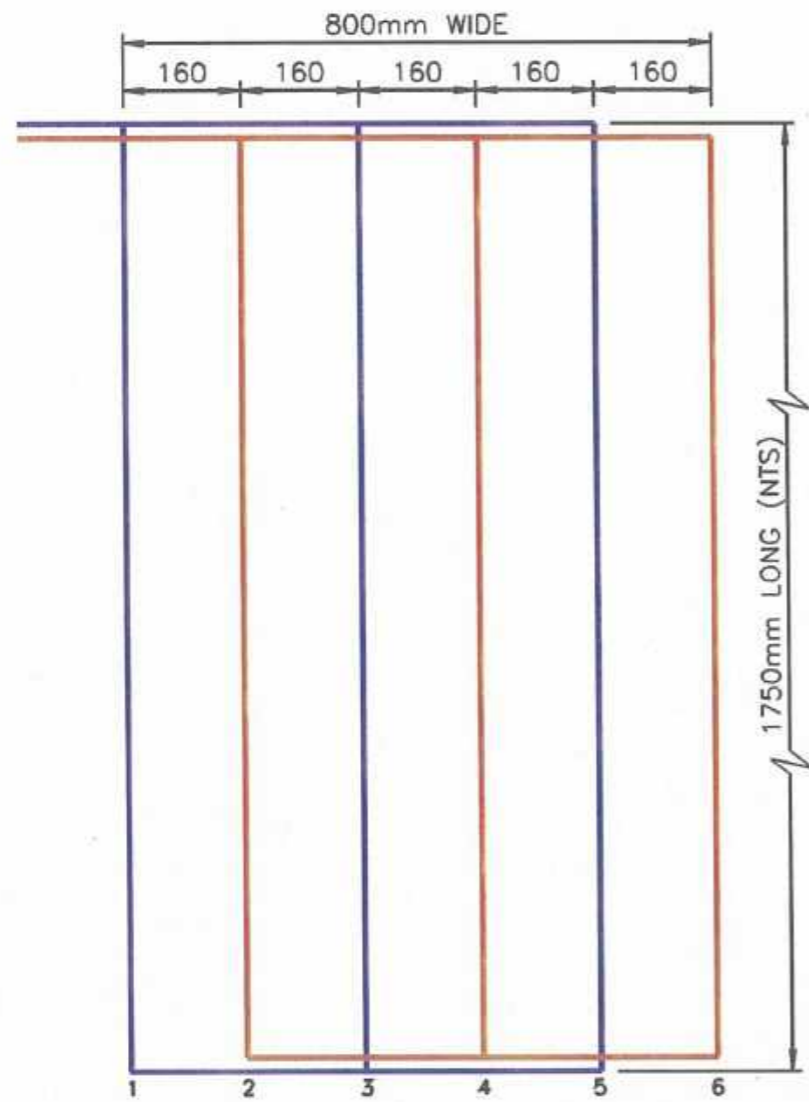
SHEET SIZE	FILE NO	SCALE	SHEET NO
A2		NTS	-
SUPERSEDES		ISSUE	A
REG NO		VC005-36	



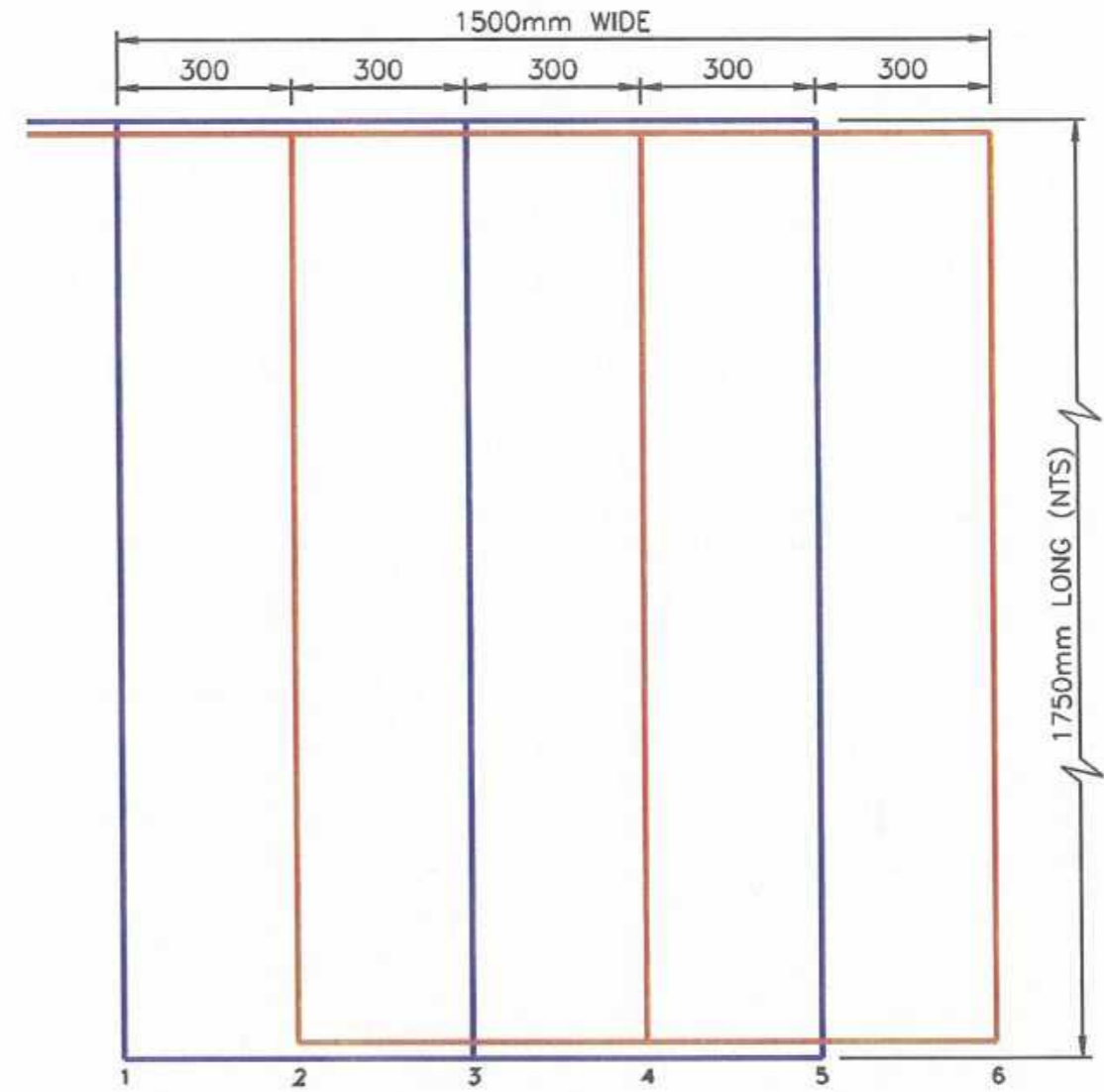
WIRING RULES

1. MARK 'START' AT END OF CABLE.
2. ALWAYS START OFF IN A CLOCKWISE DIRECTION ON ENTRY FROM KERB.
3. ALWAYS CHANGE DIRECTION AT THE CENTRE (LONGITUDINAL) CUT TO MAKE A 'FIGURE 8' PATTERN.
4. ALWAYS FORM THREE 'FIGURE 8' PATTERNS FOR EACH LOOP SECTION.
5. THERE ARE TWO IDENTICAL QUADRUPOLE LOOPS REQUIRED FOR EACH BICYCLE LANE APPROACH WHICH ARE INSTALLED IN ADJACENT LOGITUDINAL SAWCUTS REFER TO VC005-36.

		REFERENCE DRAWINGS	
		METHOD OF INSTALL	VC005-36
ROADS AND MARITIME SERVICES TRAFFIC SIGNALS		SCALE	APPROVED SUNIL SRIVASTAVA 06-06-2012
QUADRUPOLE TYPE BICYCLE LOOP DETECTOR WIRING GUIDE FOR 4 POSSIBLE ENTRY POSITIONS		SUPERSEDES:	ISSUE
		DRAWN : D. BAIGORRIA	A
		CHECKED : L. CLAY	
		PASSED : B.W. TAYLOR	VC005-37



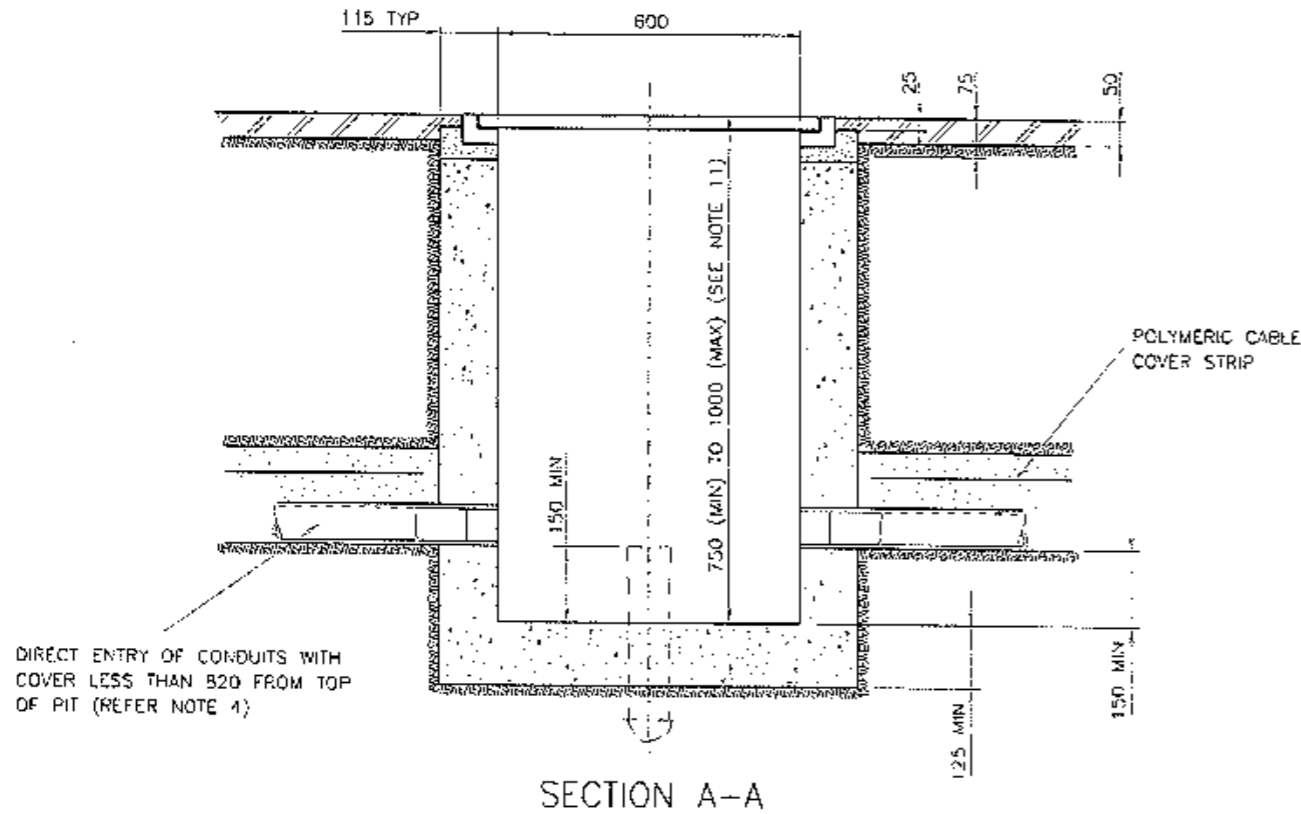
EACH LOOP IS MADE UP OF 3 TURNS OF THE FIGURE 8.
 N.B. THIS LOOP ARRANGEMENT IS TO SUIT A 1.2m WIDE BICYCLE LANE.



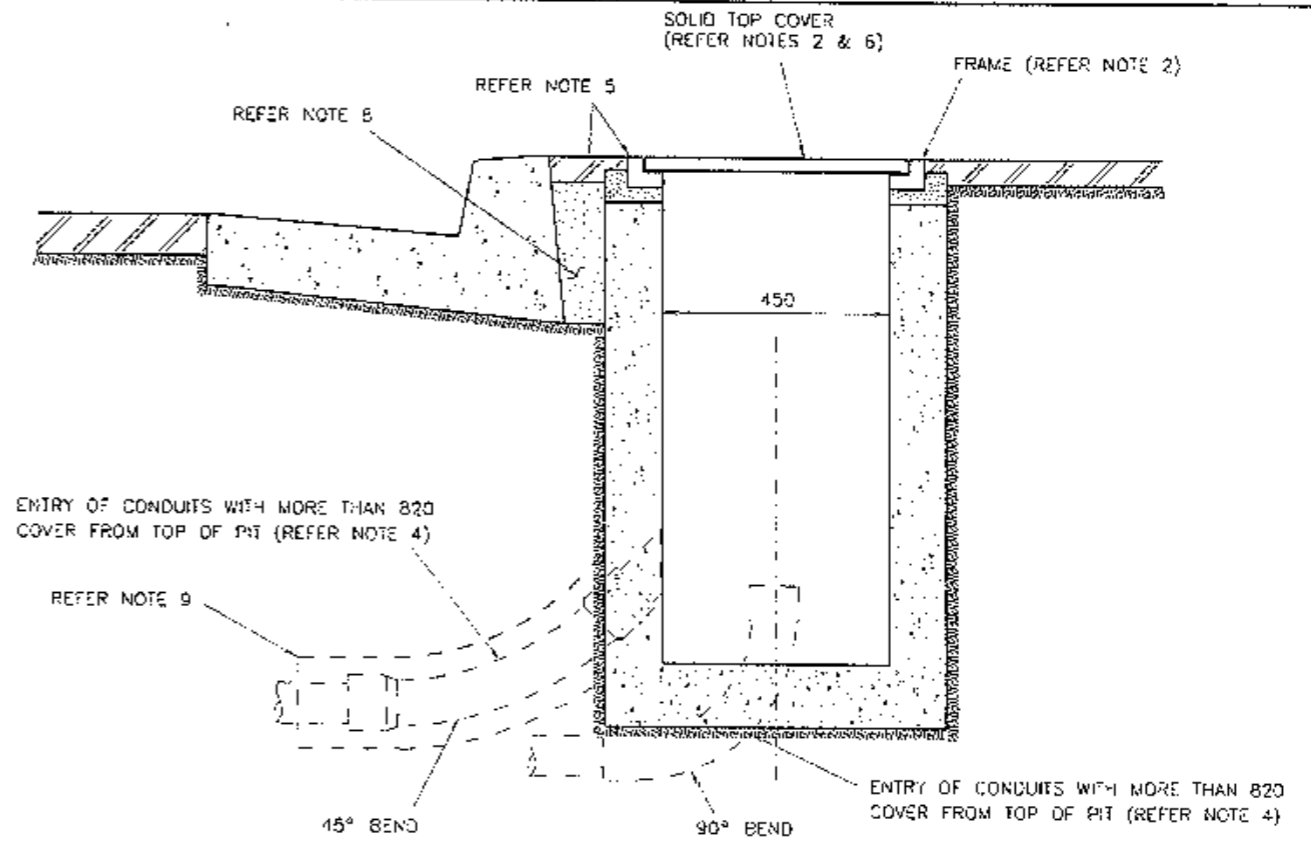
EACH LOOP IS MADE UP OF 3 TURNS OF THE FIGURE 8.
 N.B. THIS LOOP ARRANGEMENT IS TO SUIT A 2.0m WIDE BICYCLE LANE.

A ORIGINAL ISSUE	REFERENCE DRAWINGS		ROADS AND MARITIME SERVICES TRAFFIC SIGNALS	SCALE	APPROVED: 06-06-2012
	METHOD OF INSTALL	VC005-36		NTS	
			SUPERSEDES: -	MANAGER EQUIPMENT & STDS	
			DRAWN D. BAIGORRIA	ISSUE	
			CHECKED B. TAYLOR		
		PASSED B. TAYLOR		VC005-38	

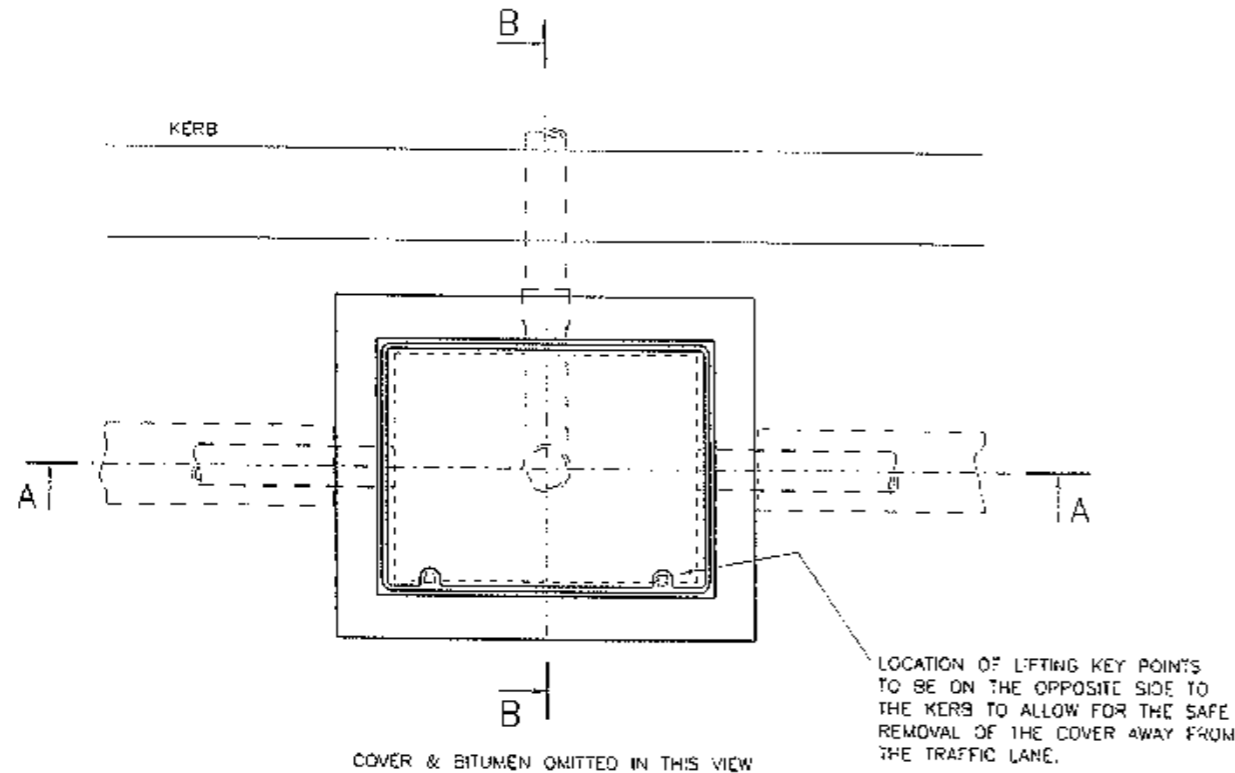
SAMPLE OF BICYCLE STOPLINE
 LOOP DETECTOR TO SUIT BICYCLE
 LANES FROM 1.2m TO 2.0m WIDE








SECTION A-A



SECTION B-B



LEGEND

-  2.5:1 CONCRETE MORTAR
-  BITUMEN
-  EARTH
-  CONCRETE
-  SAND

NOTES

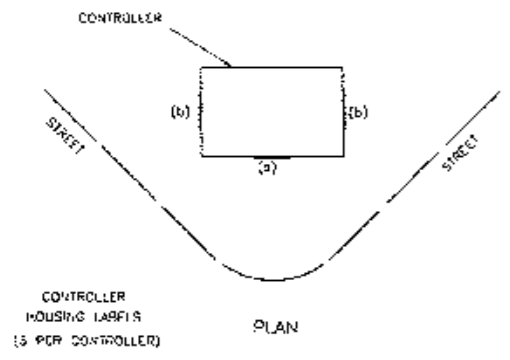
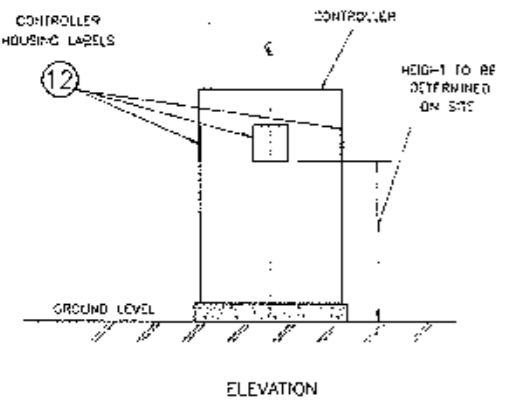
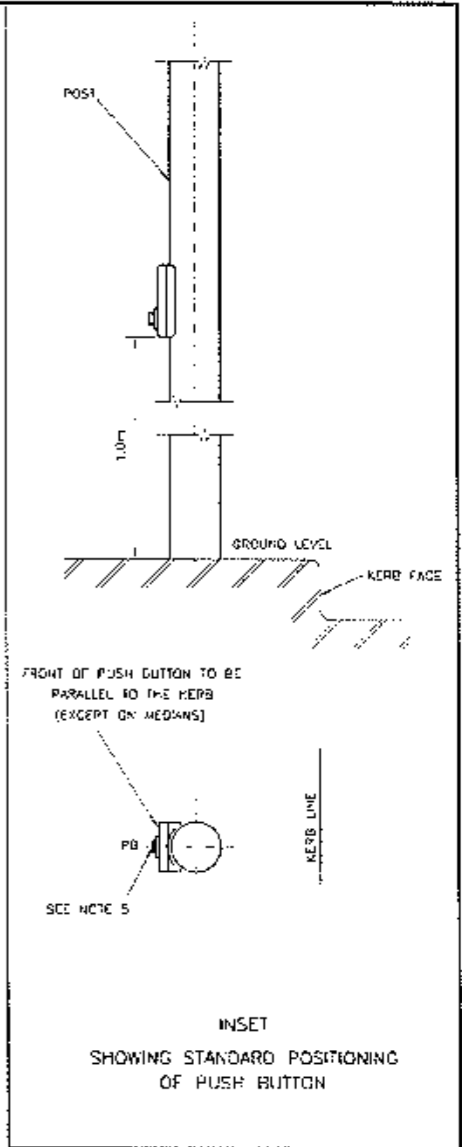
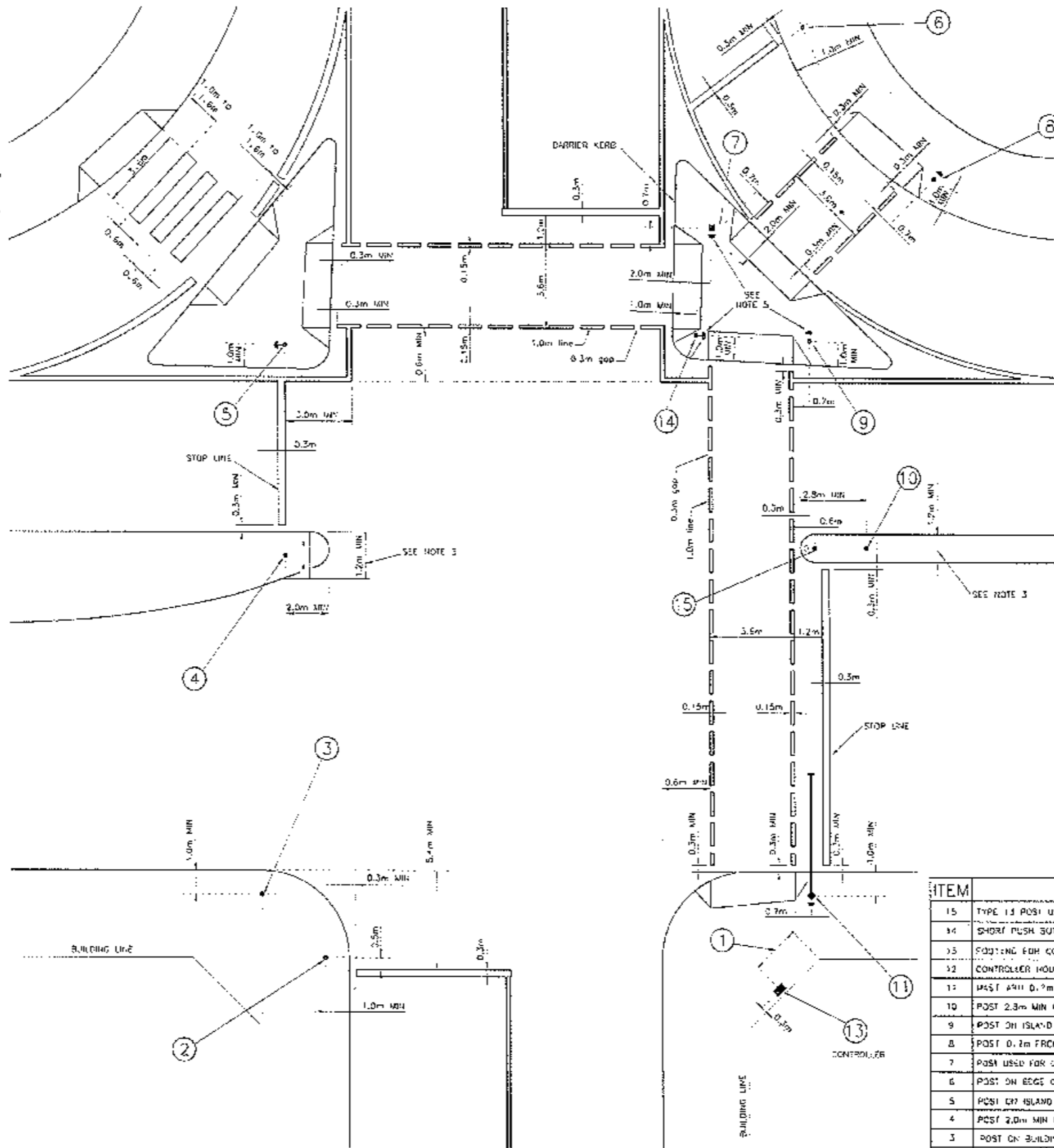
1. INSIDE OF PIT TO HAVE A SMOOTH FINISH.
2. COVER & FRAMES WITH SOLID TOP TO BE IN ACCORDANCE WITH RTA SPECIFICATION PCF/2.
3. BRICK WALLS OF EQUIVALENT STRENGTH TO CAST CONCRETE MAY BE USED AS AN ALTERNATIVE WITH 20mm WATERPROOF RENDER INTERNAL.
4. THE NUMBER & SIZE OF CABLE INLET PIPES OR CONDUITS INSTALLED IN THE CABLE JUNCTION PIT SHALL VARY TO SUIT INDIVIDUAL SITES. PIPES TO BE SECURELY GROUTED INTO WALLS OF PIT.
5. FRAME TO BE SETTED IN 2.5:1 CONCRETE MORTAR & 25mm DEPTH OF BITUMEN AS SHOWN EXCEPT IN EXPOSED CONCRETE FOOTPAVEMENTS WHERE CONCRETE IS TO BE USED IN LIEU OF BITUMEN.
6. COVER & FRAME TO BE INSTALLED TO ALLOW FOR THE SAFE REMOVAL OF THE COVER AWAY FROM THE TRAFFIC LANE.
7. PITS TO BE CAST DIRECTLY IN EXCAVATION WHERE POSSIBLE. OTHERWISE SAND IS TO BE HAMMED TIGHTLY AROUND CASTING BEFORE BACK-FILLING.
8. SAND TO BE FULL DEPTH OF EXCAVATION WITHIN THE SYDNEY INNER CITY AREA.
9. WHERE PENETRATION IS LESS THAN REQUIRED BY CLAUSE 6.4.2 OF SPEC 51/TCS/8, THE JOINT MUST BE ENCASED IN CONCRETE.
10. A MASTIC EXPANSION JOINT IS TO BE USED BETWEEN THE TOP OF THE POST FOOTING AND THE PIT, WHERE THE PIT IS INSTALLED BESIDE A POST FOOTING.
11. PIT DEPTHS LESS THAN THE 750mm STATED SHALL BE SUBJECT TO APPROVAL BY THE RMS OR AN RMS REPRESENTATIVE.

C ISSUE 1999-05-31 J/A TC2559 PLAN REDRAWN, ADDED SMALL PIT, DELETED BELLMOUTHS & MESH. ADDED NOTE 10. ADDED NEW NOTE 1. IN NOTE 6, CONCRETE WAS 32 MPa. BWT H ISSUE 19-04-2010. REFERENCE TO SMALL 450x300 PIT DELETED. LARGE & EXTRA LARGE PJ BOX REFERENCE PLANS ADDED. LC I ISSUE DATE: 1-11-2010 CONCRETE INFILL COVER CHANGED TO SOLID TOP COVER. NOTE 6 DELETED. COVER LIFTING KEY POINTS CHANGED TO SHOW ON THE OPPOSITE SIDE TO THE KERB. NEW NOTE 6 ADDED TO SUIT. B.W.T. J ISSUE 24-06-2015 MIN DEPTH OF PIT & NOTE 11 ADDED. BWT	REFERENCE DRAWINGS TYPICAL EXCAVATION VC001-9 LARGE PJ BOX VMD16-11 EXTRA LARGE BOX VMD16-12	DRAWN R-12-81 CHECKED RB 11-01-82 PASSED BWT 15-03-82 APPROVED FR HULSCHER DATE 1982-03-16	ROADS AND MARITIME SERVICES TRAFFIC SIGNALS	SHEET SIZE A2 FILE NO SCALE 1:10 SHEET NO
	LARGE FOOTPATH CABLE JUNCTION PIT			SUPERSEDES ISSUE G REG NO ISSUE 10/11/12/13/14/15/16/17/18/19/20/21/22/23/24/25/26/27/28/29/30/31/32/33/34/35/36/37/38/39/40/41/42/43/44/45/46/47/48/49/50/51/52/53/54/55/56/57/58/59/60/61/62/63/64/65/66/67/68/69/70/71/72/73/74/75/76/77/78/79/80/81/82/83/84/85/86/87/88/89/90/91/92/93/94/95/96/97/98/99/100/101/102/103/104/105/106/107/108/109/110/111/112/113/114/115/116/117/118/119/120/121/122/123/124/125/126/127/128/129/130/131/132/133/134/135/136/137/138/139/140/141/142/143/144/145/146/147/148/149/150/151/152/153/154/155/156/157/158/159/160/161/162/163/164/165/166/167/168/169/170/171/172/173/174/175/176/177/178/179/180/181/182/183/184/185/186/187/188/189/190/191/192/193/194/195/196/197/198/199/200/201/202/203/204/205/206/207/208/209/210/211/212/213/214/215/216/217/218/219/220/221/222/223/224/225/226/227/228/229/230/231/232/233/234/235/236/237/238/239/240/241/242/243/244/245/246/247/248/249/250/251/252/253/254/255/256/257/258/259/260/261/262/263/264/265/266/267/268/269/270/271/272/273/274/275/276/277/278/279/280/281/282/283/284/285/286/287/288/289/290/291/292/293/294/295/296/297/298/299/300/301/302/303/304/305/306/307/308/309/310/311/312/313/314/315/316/317/318/319/320/321/322/323/324/325/326/327/328/329/330/331/332/333/334/335/336/337/338/339/340/341/342/343/344/345/346/347/348/349/350/351/352/353/354/355/356/357/358/359/360/361/362/363/364/365/366/367/368/369/370/371/372/373/374/375/376/377/378/379/380/381/382/383/384/385/386/387/388/389/390/391/392/393/394/395/396/397/398/399/400/401/402/403/404/405/406/407/408/409/410/411/412/413/414/415/416/417/418/419/420/421/422/423/424/425/426/427/428/429/430/431/432/433/434/435/436/437/438/439/440/441/442/443/444/445/446/447/448/449/450/451/452/453/454/455/456/457/458/459/460/461/462/463/464/465/466/467/468/469/470/471/472/473/474/475/476/477/478/479/480/481/482/483/484/485/486/487/488/489/490/491/492/493/494/495/496/497/498/499/500/501/502/503/504/505/506/507/508/509/510/511/512/513/514/515/516/517/518/519/520/521/522/523/524/525/526/527/528/529/530/531/532/533/534/535/536/537/538/539/540/541/542/543/544/545/546/547/548/549/550/551/552/553/554/555/556/557/558/559/560/561/562/563/564/565/566/567/568/569/570/571/572/573/574/575/576/577/578/579/580/581/582/583/584/585/586/587/588/589/590/591/592/593/594/595/596/597/598/599/600/601/602/603/604/605/606/607/608/609/610/611/612/613/614/615/616/617/618/619/620/621/622/623/624/625/626/627/628/629/630/631/632/633/634/635/636/637/638/639/640/641/642/643/644/645/646/647/648/649/650/651/652/653/654/655/656/657/658/659/660/661/662/663/664/665/666/667/668/669/670/671/672/673/674/675/676/677/678/679/680/681/682/683/684/685/686/687/688/689/690/691/692/693/694/695/696/697/698/699/700/701/702/703/704/705/706/707/708/709/710/711/712/713/714/715/716/717/718/719/720/721/722/723/724/725/726/727/728/729/730/731/732/733/734/735/736/737/738/739/740/741/742/743/744/745/746/747/748/749/750/751/752/753/754/755/756/757/758/759/760/761/762/763/764/765/766/767/768/769/770/771/772/773/774/775/776/777/778/779/780/781/782/783/784/785/786/787/788/789/790/791/792/793/794/795/796/797/798/799/800/801/802/803/804/805/806/807/808/809/810/811/812/813/814/815/816/817/818/819/820/821/822/823/824/825/826/827/828/829/830/831/832/833/834/835/836/837/838/839/840/841/842/843/844/845/846/847/848/849/850/851/852/853/854/855/856/857/858/859/860/861/862/863/864/865/866/867/868/869/870/871/872/873/874/875/876/877/878/879/880/881/882/883/884/885/886/887/888/889/890/891/892/893/894/895/896/897/898/899/900/901/902/903/904/905/906/907/908/909/910/911/912/913/914/915/916/917/918/919/920/921/922/923/924/925/926/927/928/929/930/931/932/933/934/935/936/937/938/939/940/941/942/943/944/945/946/947/948/949/950/951/952/953/954/955/956/957/958/959/960/961/962/963/964/965/966/967/968/969/970/971/972/973/974/975/976/977/978/979/980/981/982/983/984/985/986/987/988/989/990/991/992/993/994/995/996/997/998/999/1000

VC007-5

NOTES

- POSTS ARE TO BE POSITIONED AS SHOWN UNLESS OTHERWISE INDICATED ON DESIGN PLAN (NOT LESS THAN 1.0m FROM FACE OF BARRIER KERB).
- NOMINAL DIMENSION ONLY.
- MINIMUM WIDTH OF MEDIAN:
 - 1.2m FOR SINGLE 250mm JUNCTION
 - 1.5m FOR DUAL 200mm LANTERNS OR SINGLE 300mm LANTERN.
 - 1.8m FOR DUAL 300mm LANTERN.
- FOR DETAILS OF APPLICATION AND INSTALLATION OF AUDIO-TACTILE PUSH-BUTTONS REFER TO PLAN VES10-8.
- FOR DETAILS OF ORIENTATION OF PEDESTRIAN PUSH-BUTTON ARROW DICES, REFER TO PLAN V0001-7.



THE LABELS ARE TO BE PLACED ON THE CONTROLLER AS FOLLOWS:

- (a) ONE LABEL FACES THE STREET.
- (b) ONE LABEL ON EACH SIDE OF CONTROLLER.

INSET
SHOWING STANDARD POSITIONING OF CONTROLLER HOUSING LABELS

DIMENSIONS ARE IN MILLIMETRES UNLESS OTHERWISE SHOWN

ITEM	DETAIL
15	TYPE 13 POST USED WHERE MEDIAN POST WOULD BE EXPOSED TO DAMAGE AT THIS LOCATION
14	SHORT PUSH BUTTON POST USED TO SEPARATE AUDIO-TACTILE PUSH BUTTONS
15	FOOTING FOR CONTROLLER HOUSING (REFER PLAN VCD02-13)
12	CONTROLLER HOUSING LABELS
11	POST 400 0.2m FROM EDGE OF CROSSING PROJECTION
10	POST 2.3m MIN FROM ROUNDED TIP (TO PROVIDE 2.2m MIN BETWEEN POSTS FOR LADDER ACCESS)
9	POST ON ISLAND 1.0m (NORMAL) FROM EDGE, 0.7m BEHIND CROSSING PROJECTION
8	POST 0.2m FROM EDGE OF PEDESTRIAN CROSSING PROJECTION
7	POST USED FOR DUAL PED LANTERNS ON EDGE OF RED CROSSING PROJECTIONS IN ISLAND CENTRE
6	POST ON EDGE OF STOP LINE PROJECTION
5	POST ON ISLAND 1.0m (NORMAL) FROM EDGE
4	POST 2.0m MIN FROM ROUNDED TIP
3	POST ON BUILDING LINE PROJECTION
2	POST 0.5m BEYOND FRONT EDGE OF THE STOP LINE
1	DIMENSION TO CENTRE OF CONTROLLER

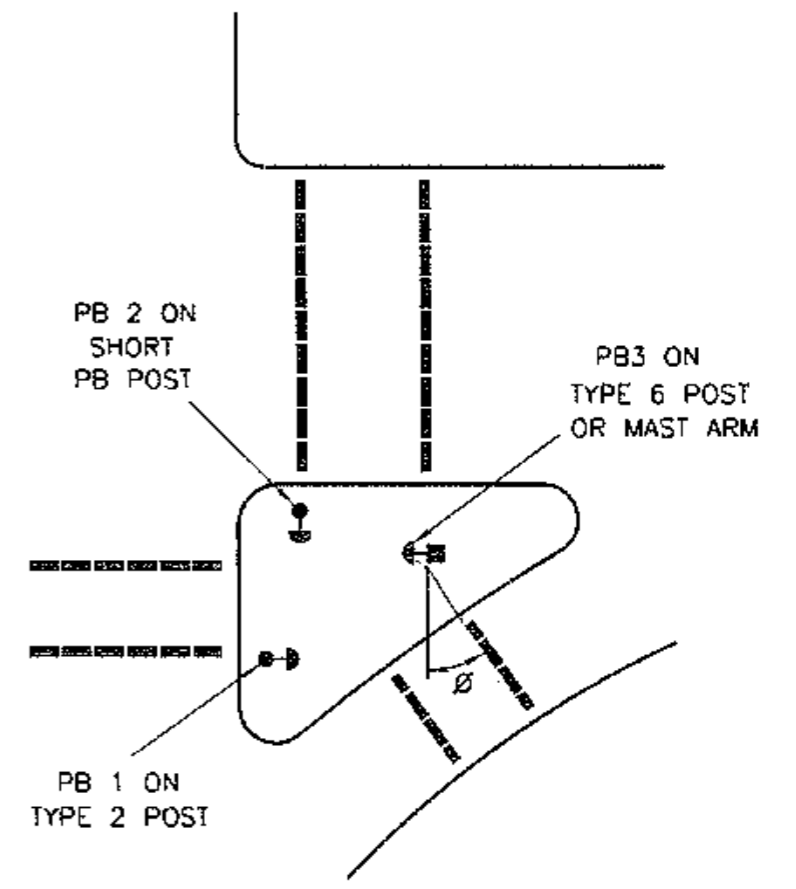
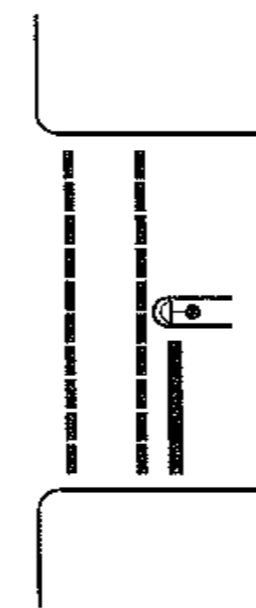
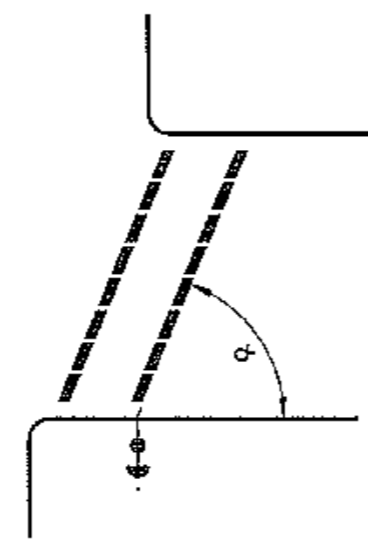
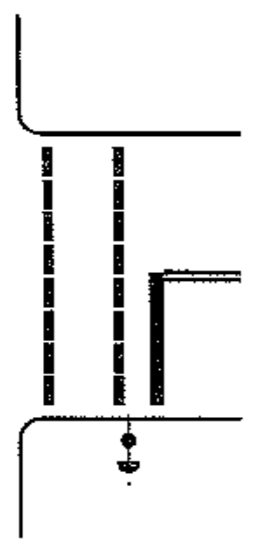
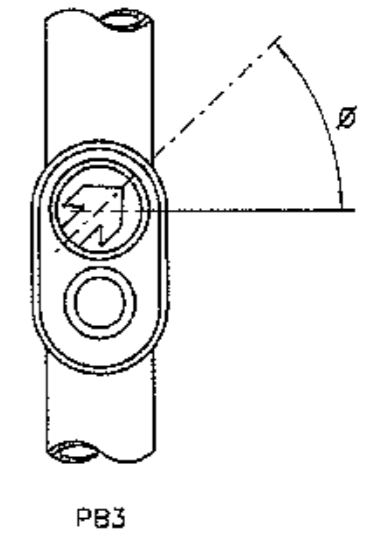
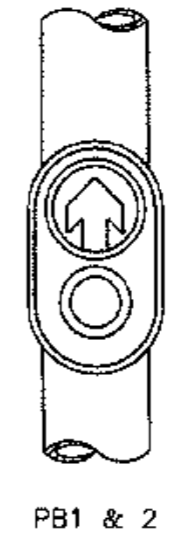
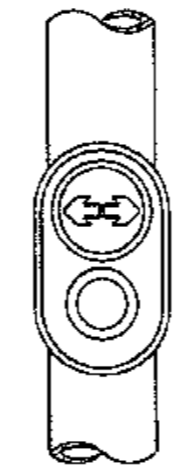
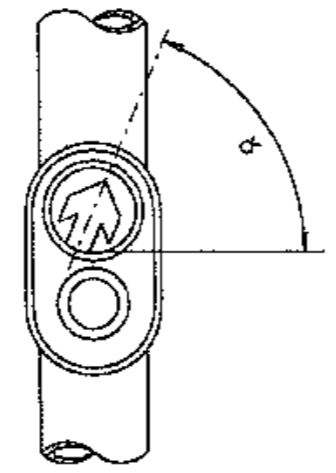
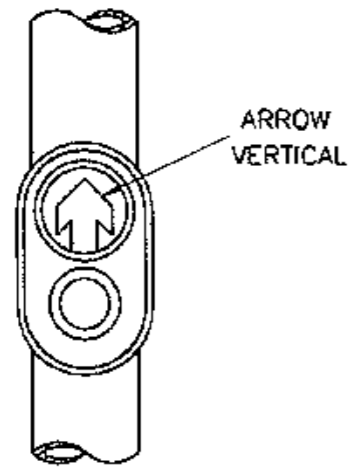
1. Issue 1989 15
2. J.A. 1992
3. J.A. 1992
4. J.A. 1992
5. J.A. 1992
6. J.A. 1992
7. J.A. 1992
8. J.A. 1992
9. J.A. 1992
10. J.A. 1992
11. J.A. 1992
12. J.A. 1992
13. J.A. 1992
14. J.A. 1992
15. J.A. 1992

REFERENCE DRAWINGS	DATE	BY	CHKD
TRAFFIC SIGNALS	1989-01-15	J.A.	J.A.
TRAFFIC SIGNALS	1989-01-15	J.A.	J.A.
TRAFFIC SIGNALS	1989-01-15	J.A.	J.A.
TRAFFIC SIGNALS	1989-01-15	J.A.	J.A.
TRAFFIC SIGNALS	1989-01-15	J.A.	J.A.
TRAFFIC SIGNALS	1989-01-15	J.A.	J.A.
TRAFFIC SIGNALS	1989-01-15	J.A.	J.A.
TRAFFIC SIGNALS	1989-01-15	J.A.	J.A.
TRAFFIC SIGNALS	1989-01-15	J.A.	J.A.
TRAFFIC SIGNALS	1989-01-15	J.A.	J.A.

ROADS AND TRAFFIC AUTHORITY NSW
TRAFFIC SIGNALS

TRAFFIC CONTROL SIGNALS
STANDARD POSITIONING OF COMPONENTS
AT INTERSECTIONS

SHEET SIZE	A1	PLS NO	SCALE	1:100	SHEET NO
SUPERSEDES ISSUE E		ISSUE FISH		REG NO	
V0001-5					



a) CROSSING AT RIGHT ANGLE TO KERB AT PUSH BUTTON

b) SKEWED CROSSING

c) PUSH BUTTON ON MEDIAN (NOT FOR STAGED CROSSINGS)

d) PUSH BUTTONS ON A SMALL ISLAND

AUDIO-TACTILE PUSH BUTTONS ARE NOT TO BE USED IN THIS SITUATION

B ISSUE 14-12-99
 J/1 TC2350 PLAN
 REDRAWN IN CONFIG
 'c' 2 PB'S WERE ON
 ONE POST. NOTE
 CLARIFIED IN
 CONFIG 'c'.
 RVC/IH BWT
 C: ISSUE 2-11-2010
 PEDESTRIAN CROSSING
 LINES WERE UNBROKEN
 A.K.

REFERENCE DRAWINGS	
PUSH-BUTTON ASS'Y	VM041-31
PUSH-BUTTON DISC	VM041-32

ROADS AND TRAFFIC AUTHORITY OF NSW
 TRAFFIC SIGNALS

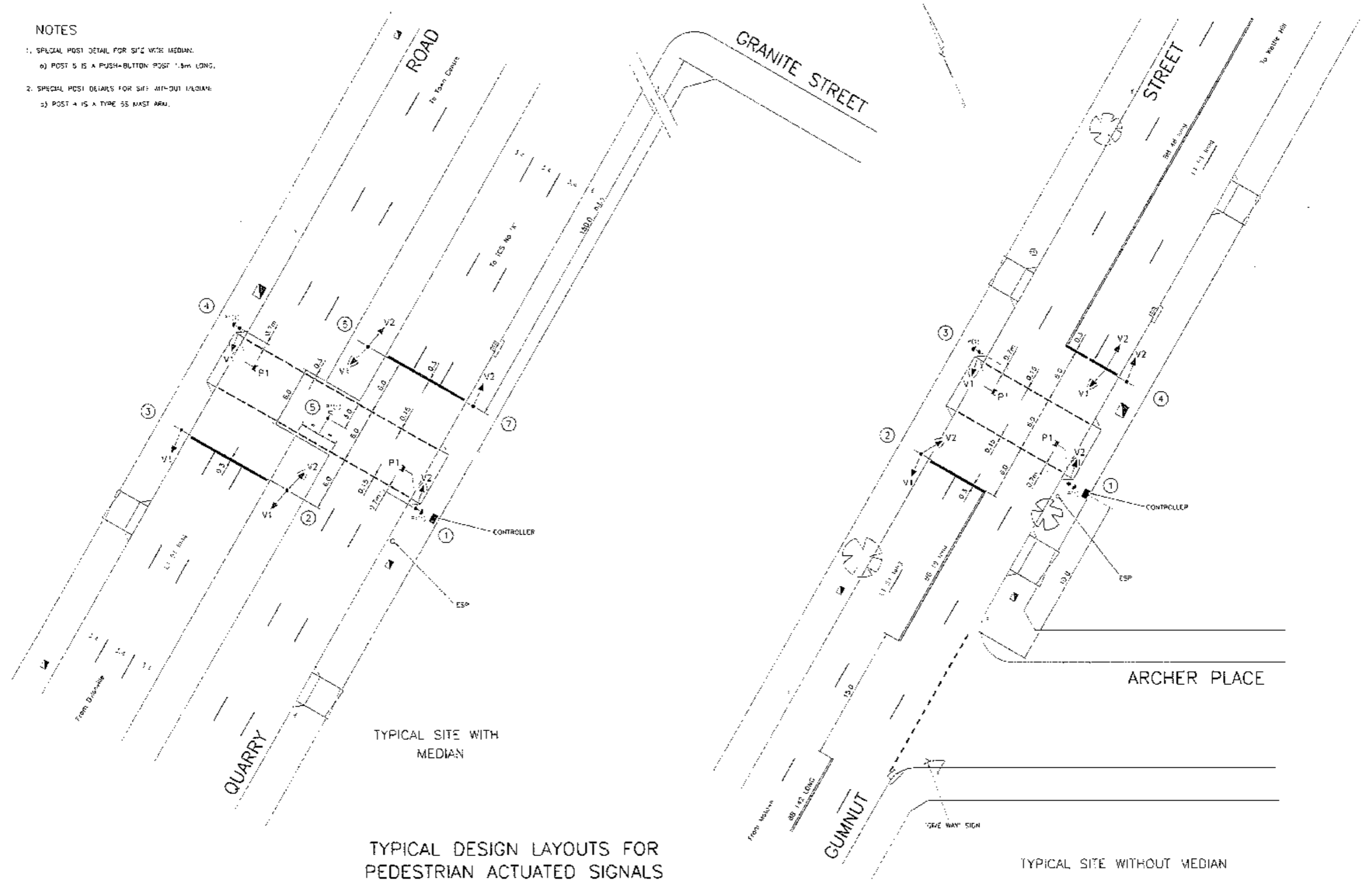
**ORIENTATION OF PEDESTRIAN
 PUSH-BUTTON ARROW DISCS**

SCALE	
SUPERSEDES:	ISSUE A
DRAWN	LP 28-9-84
CHECKED	BWT
PASSED	BWT 03-10-84

APPROVED: 4-10-1984	
FR HULSCHER	
MANAGER STDS & QUALITY	
ISSUE	C
VD001-7	

NOTES

1. SPECIAL POST DETAIL FOR SITE WITH MEDIAN.
2. POST 5 IS A PUSH-BUTTON POST 1.5m LONG.
3. SPECIAL POST DETAILS FOR SITE WITH-OUT MEDIAN.
4. POST 4 IS A TYPE 55 MAST ARM.



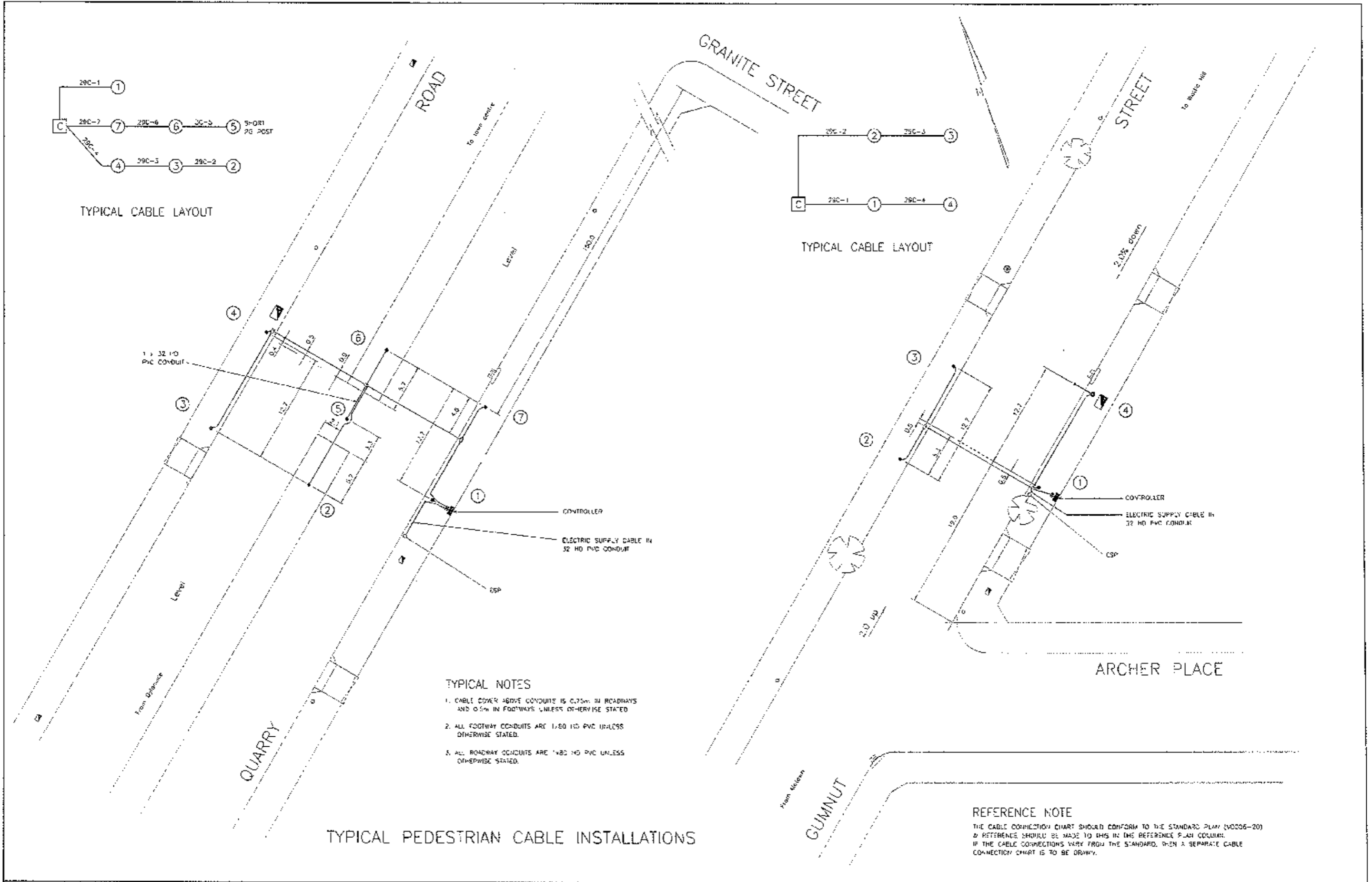
TYPICAL DESIGN LAYOUTS FOR PEDESTRIAN ACTUATED SIGNALS

J. BISHOP, 1988
 S. J. HAYES, 1988
 C. HAYES, 1988
 J. BISHOP, 1988
 S. J. HAYES, 1988
 C. HAYES, 1988
 J. BISHOP, 1988
 S. J. HAYES, 1988
 C. HAYES, 1988

REFERENCE DRAWINGS		DATE	BY
TRAFFIC SIGNALS	1/2000-01	19/01/88	J. BISHOP
TRAFFIC SIGNALS	1/2000-02	19/01/88	J. BISHOP
TRAFFIC SIGNALS	1/2000-03	19/01/88	J. BISHOP
TRAFFIC SIGNALS	1/2000-04	19/01/88	J. BISHOP
TRAFFIC SIGNALS	1/2000-05	19/01/88	J. BISHOP
TRAFFIC SIGNALS	1/2000-06	19/01/88	J. BISHOP
TRAFFIC SIGNALS	1/2000-07	19/01/88	J. BISHOP
TRAFFIC SIGNALS	1/2000-08	19/01/88	J. BISHOP
TRAFFIC SIGNALS	1/2000-09	19/01/88	J. BISHOP
TRAFFIC SIGNALS	1/2000-10	19/01/88	J. BISHOP

ROADS AND TRAFFIC AUTHORITY NSW
 TRAFFIC SIGNALS
 QUARRY RD SOUTH WEST OF GRANITE ST
 GUMNUT ST NORTH EAST OF ARCHER PL
 MAINBIRCH

SHEET SIZE	FILE NO	SCALE	SHEET NO
A1		1:200	
SUPERSEDES ISSUE C		ISSUE D E	
REG NO		VD002-20	



TYPICAL CABLE LAYOUT

TYPICAL CABLE LAYOUT

TYPICAL NOTES

1. CABLE COVER ABOVE CONDUIT IS 0.75m IN ROADWAYS AND 0.5m IN FOOTWAYS UNLESS OTHERWISE STATED.
2. ALL FOOTWAY CONDUITS ARE 1.80 HD PVC UNLESS OTHERWISE STATED.
3. ALL ROADWAY CONDUITS ARE 1.80 HD PVC UNLESS OTHERWISE STATED.

REFERENCE NOTE

THE CABLE CONNECTION CHART SHOULD CONFORM TO THE STANDARD PLAN (VD026-20) & REFERENCE SHOULD BE MADE TO THIS IN THE REFERENCE PLAN COLUMN. IF THE CABLE CONNECTIONS VARY FROM THE STANDARD, THEN A SEPARATE CABLE CONNECTION CHART IS TO BE DRAWN.

TYPICAL PEDESTRIAN CABLE INSTALLATIONS

F ISSUE 1989-05-07
 1/1 R2240
 PLAN REVISION
 ALL SIGN, CABLE W/S
 SHOWN AS 191
 TYPICAL NOTES UPDATED
 TO CURRENT PRACTICE
 ADDED 32 HD PVC
 CONDUIT AT TERMINAL
 BMT
 0 ISS JE 30-31-2010
 PLAN REVISED TO SLIP
 CURRENT STANDARDS
 AK BMT

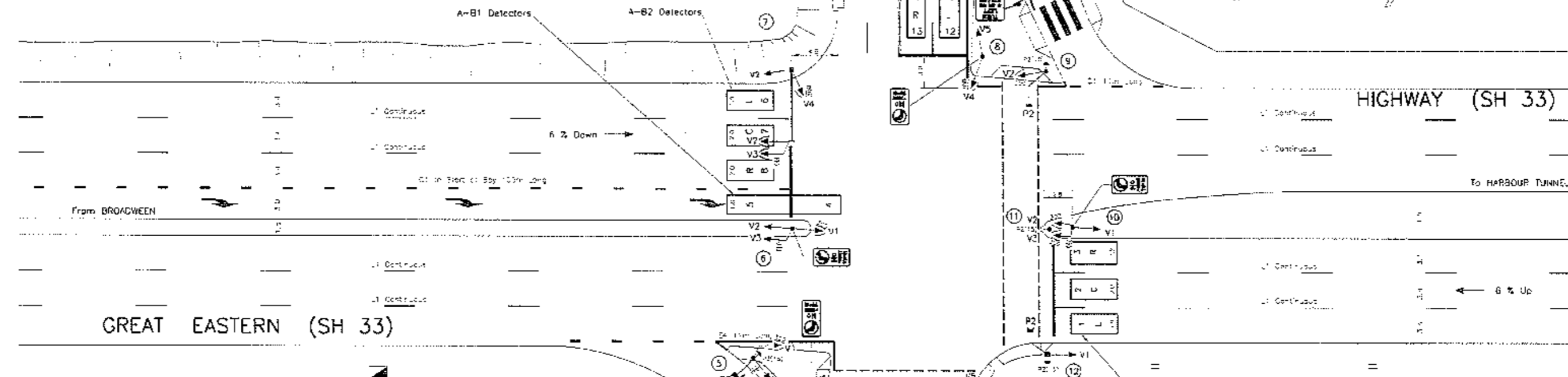
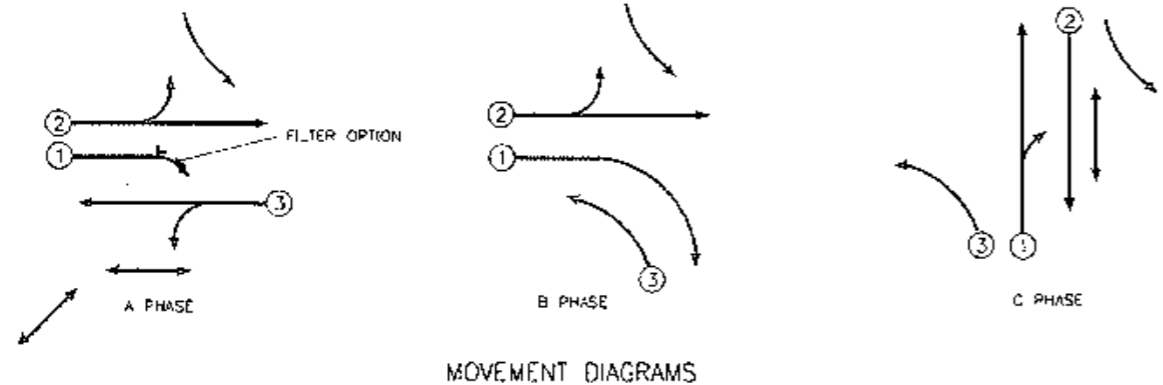
REFERENCE DRAWINGS	DATE
Byways & Access (VD026-4)	2006-11-14-07-01
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Signs & Signs (VD026-6)	2006-11-14-07-01
Signs & Signs (VD026-7)	2006-11-14-07-01
Signs & Signs (VD026-8)	2006-11-14-07-01
Signs & Signs (VD026-9)	2006-11-14-07-01
Signs & Signs (VD026-10)	2006-11-14-07-01
Signs & Signs (VD026-11)	2006-11-14-07-01
Signs & Signs (VD026-12)	2006-11-14-07-01
Signs & Signs (VD026-13)	2006-11-14-07-01
Signs & Signs (VD026-14)	2006-11-14-07-01
Signs & Signs (VD026-15)	2006-11-14-07-01
Signs & Signs (VD026-16)	2006-11-14-07-01
Signs & Signs (VD026-17)	2006-11-14-07-01
Signs & Signs (VD026-18)	2006-11-14-07-01
Signs & Signs (VD026-19)	2006-11-14-07-01
Signs & Signs (VD026-20)	2006-11-14-07-01
Signs & Signs (VD026-21)	2006-11-14-07-01
Signs & Signs (VD026-22)	2006-11-14-07-01
Signs & Signs (VD026-23)	2006-11-14-07-01
Signs & Signs (VD026-24)	2006-11-14-07-01
Signs & Signs (VD026-25)	2006-11-14-07-01
Signs & Signs (VD026-26)	2006-11-14-07-01
Signs & Signs (VD026-27)	2006-11-14-07-01
Signs & Signs (VD026-28)	2006-11-14-07-01
Signs & Signs (VD026-29)	2006-11-14-07-01
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Signs & Signs (VD026-91)	2006-11-14-07-01
Signs & Signs (VD026-92)	2006-11-14-07-01
Signs & Signs (VD026-93)	2006-11-14-07-01
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Signs & Signs (VD026-98)	2006-11-14-07-01
Signs & Signs (VD026-99)	2006-11-14-07-01
Signs & Signs (VD026-100)	2006-11-14-07-01

ROADS AND TRAFFIC AUTHORITY NSW
 TRAFFIC SIGNALS
 QUARRY RD SOUTH WEST OF GRANITE ST
 GUMNUT ST NORTH EAST OF ARCHER PL
 MAINBIRCH

SHEET SIZE	FILE NO	SCALE	SHEET NO
A1		1:200	
SUPERSEDES ISSUE E		ISSUE F, G	
REG NO			
VD002-21			

**DRAWN BY CADD
DO NOT AMEND MANUALLY**

DATE IN SERVICE : 00/00/00



DETECTOR SPECIFICATION SCHEDULE

DETECTOR	PHASE	ALC	TYPE	REMARKS
A	SG/PS	X	A	
A-B1	SG/PS	X	A	Output & Approach
A-B1	SG/PS	X	A	Approach
A-B2	SG/PS	X	A	
B-C	SG/PS	X	A	
C1	SG/PS	X	A	
C2	SG/PS	X	A	
P1	SG/PS	X	A	
P2	SG/PS	X	A	
P3	SG/PS	X	A	

SIGNAL GROUP/PHASE CHART

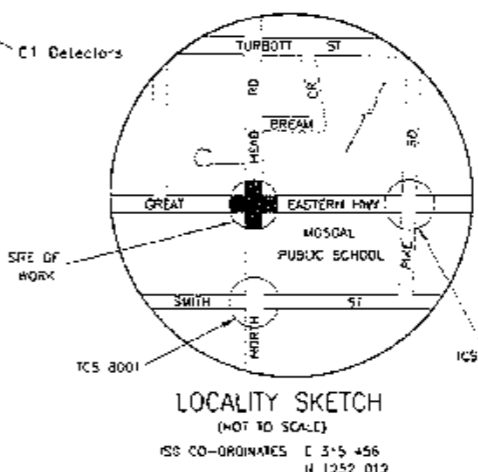
SIGNAL GROUP	Phase during green is displayed	Standard tube	Remarks
V1	X	3	
V2	X	3	
V3	X	3	Signal red green protection for RTA
V4	X	3	
V5	X	3	
V6	X	3	
P1	X	3	
P2	X	3	
P3	X	3	

POSTS

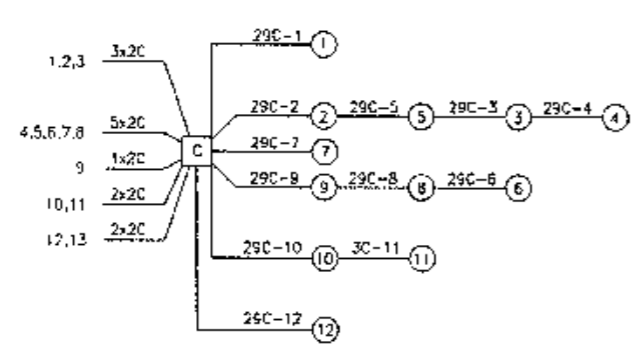
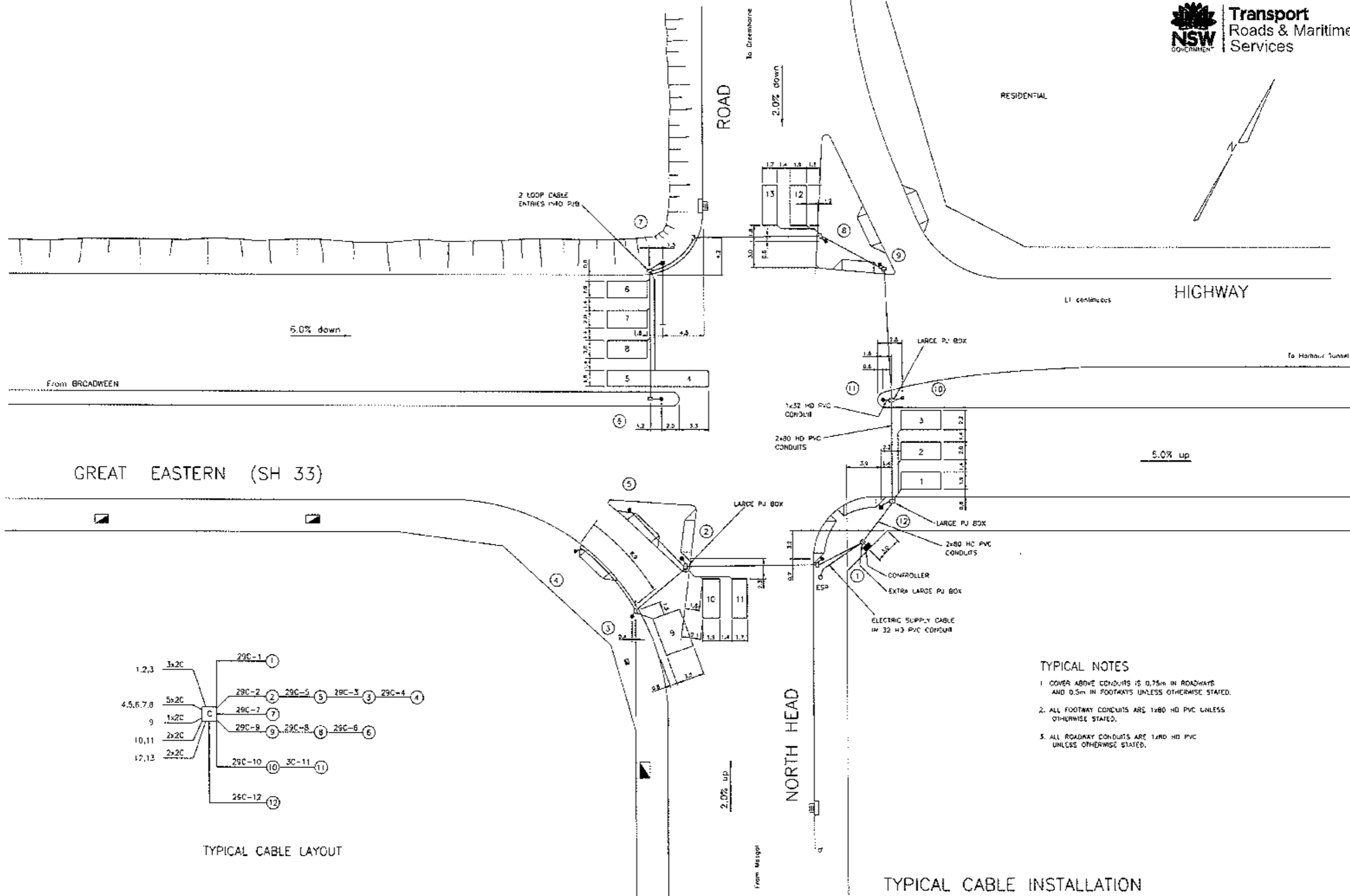
POST	TYPE	LENGTH	REMARKS
1	2	4.1	NEA
2	2	4.1	NEA
3	2	4.1	NEA
4	2	2.2	NEA
5	2	4.1	NEA
6	2	4.1	NEA
7	2	4.1	NEA
8	2	4.1	NEA
9	2	4.1	NEA
10	2	4.1	NEA
11	2	4.1	NEA
12	2	4.1	NEA

Type 9 with 1.0m outreach

- NOTES**
- SPECIAL STOP SIGN R-101 IS PLACED ON POSTS 2, 3 & 4.
 - ALSO TRAFFIC SIGNS ARE PROVIDED FOR APPROACHES TO POSTS 1, 2, 4, 6, 8 & 9.
 - THIS SITE IS SCALE LINKED.
 - SEE PLAN FOR ALL COLLECTIONS FOR CHANNEL SECTION DETAILS.
 - CONSIDER TO PROVIDE HERE RAVES AT PEDESTRIAN CROSSINGS.



<p>1. RTA 900-000-0000 2. RTA 900-000-0000 3. RTA 900-000-0000 4. RTA 900-000-0000 5. RTA 900-000-0000 6. RTA 900-000-0000 7. RTA 900-000-0000 8. RTA 900-000-0000 9. RTA 900-000-0000 10. RTA 900-000-0000</p>	<p>REFERENCE DRAWINGS</p> <p>DRW 10-10-01</p>	<p>ROADS AND TRAFFIC AUTHORITY NSW</p> <p>MUNICIPALITY OF MOSGAL</p> <p>GREAT EASTERN HIGHWAY (SH33) & NORTH HEAD ROAD</p> <p>MOSGAL</p>	<p>REGION: CENTRAL EASTERN</p> <p>SCALE: 1:100</p> <p>FILE: 900.TS.000</p> <p>REG. NO. VD002-22</p>
	<p>FR. HULSCHER</p> <p>DATE: 20-11-11</p>	<p>SHEET 1</p> <p>SCALE</p>	<p>DATE IN SERVICE: 00/00/00</p>



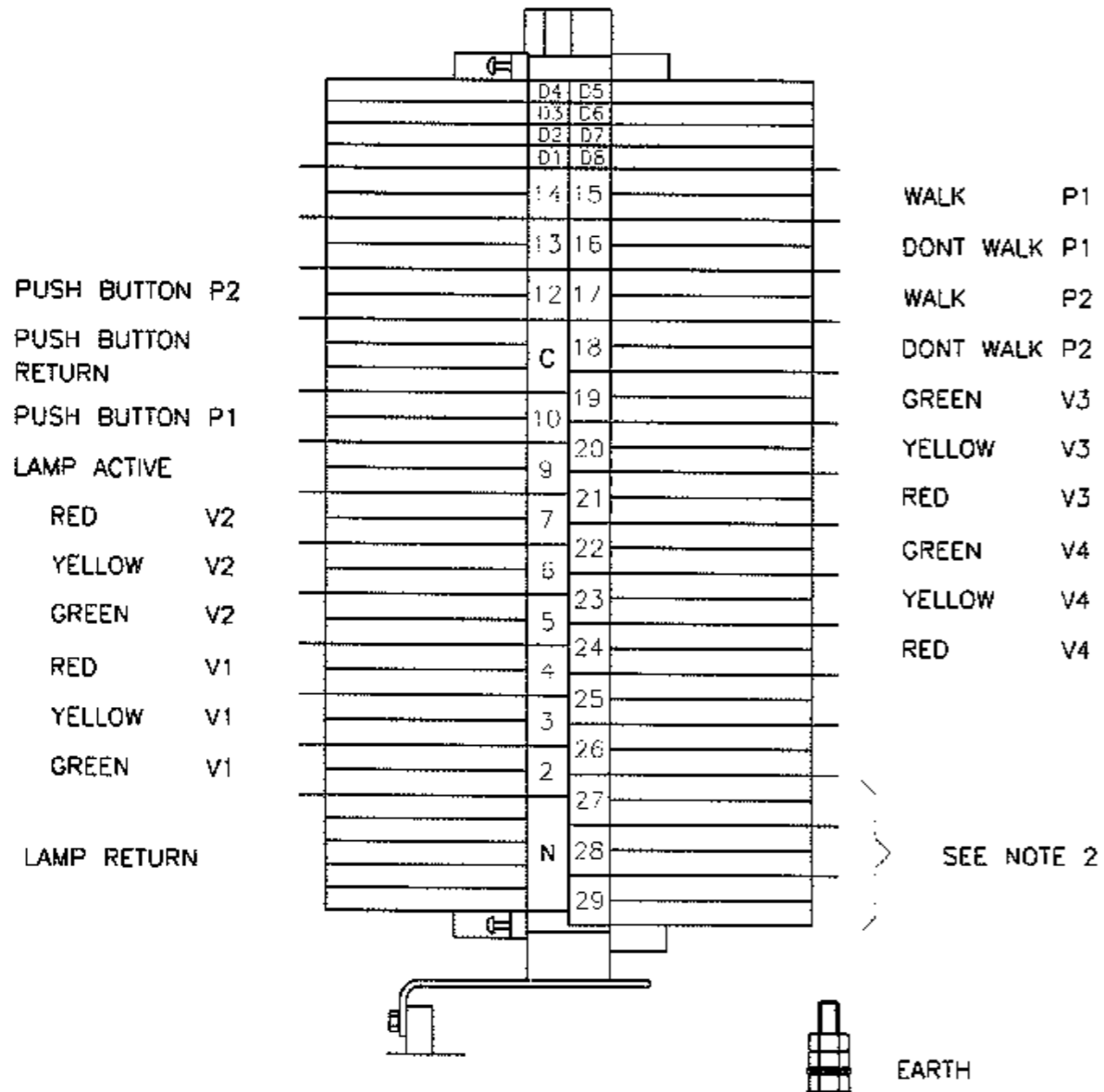
TYPICAL CABLE LAYOUT

TYPICAL NOTES

1. COVER ABOVE CONDUITS IS 0.75m IN ROADWAYS AND 0.5m IN FOOTWAYS UNLESS OTHERWISE STATED.
2. ALL FOOTWAY CONDUITS ARE 1x30 HD PVC UNLESS OTHERWISE STATED.
3. ALL ROADWAY CONDUITS ARE 1x32 HD PVC UNLESS OTHERWISE STATED.

TYPICAL CABLE INSTALLATION

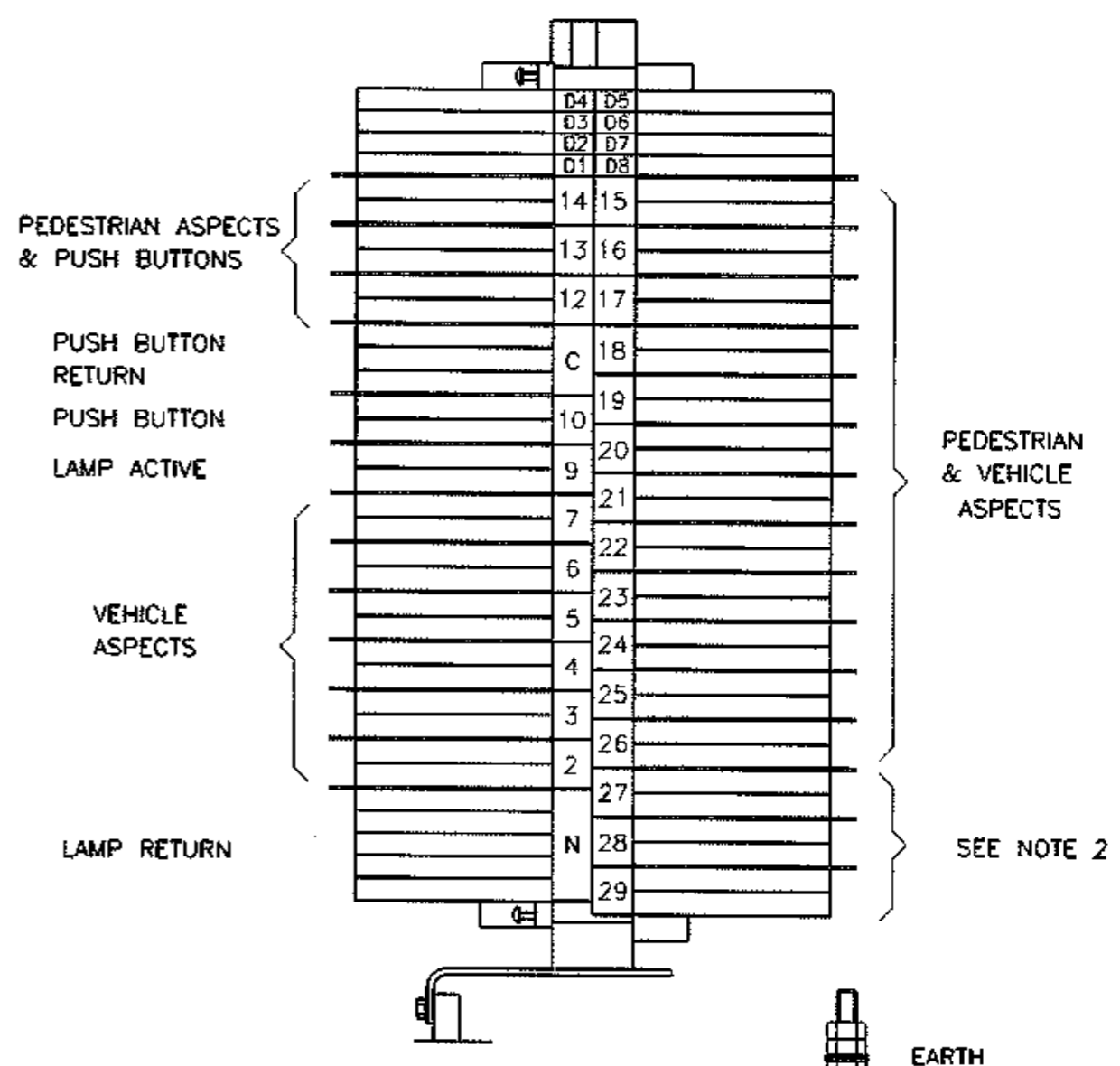
1 ISSUE: 1998-05-10 PLAN REVISIONS TYPICAL NOTES UPDATED TO CURRENT PRACTICE. AS PER 37 HD PVC CONDUIT POINT 7, 8, 9, 10, 11, 12, 13 MAST ARM B.M.T. 2 ISSUE: 3-5-2011 PLAN REVISIONS TO SUIT CURRENT STANDARDS. B.M.T. 3 ISSUE: 2-8-2012 PLAN REVISIONS TO SUIT CURRENT STANDARDS. REF: SC CAGUMR REF: SC CAGUMR L.C. B.M.T. 4 ISSUE: 11-12-2014 1x32 DUCT SHOWN FROM LARGE PUB TO POST 11. B.M.T. 5 ISSUE: 18-08-2015 LOTS 4 AND 5 SHOWN WITH SEPARATE SWHOUT. ENTRIES TO PUB TO BE ADJACENT TO POST 7. B.M.T.	REFERENCE DRAWINGS Symbols & Abbrev V0001-8 Site Positioning V0001-3 Detail Layout V0002-22 Cable Chart V0002-27 APPROVED FR HULSCHER DATE 18/08/2015	DRAWN AD 23-03-82 CHECKED RB 24-03-82 PASSED BMT 24-03-82	ROADS AND MARITIME SERVICES TRAFFIC SIGNALS MUNICIPALITY OF MOSGAL GREAT EASTERN HIGHWAY (SH 33) & NORTH HEAD ROAD MOSGAL	SHEET SIZE A1	FILE NO V0002-23	SCALE 1:200	SHEET NO 1
	SUPERSEDES ISSUE E REG NO V0002-23						



NOTES

1. WHERE POSSIBLE TERMINALS AND CORES TERMINATING WITHIN SHALL HAVE CORRESPONDING NUMBERS AND THE BLACK (BK), GREY (GY) AND GREEN/YELLOW (G-Y) CORES MUST TERMINATE AT TERMINALS N, C AND EARTH (E) RESPECTIVELY.
2. TERMINALS 27, 28 & 29 DO NOT HAVE CORRESPONDING CORES. CORES 1, 8, & 11 DO NOT HAVE CORRESPONDING TERMINALS.
3. THE WHITE CORES 1, 8 & 11 SHALL BE KEPT AS SPARES WHERE POSSIBLE.

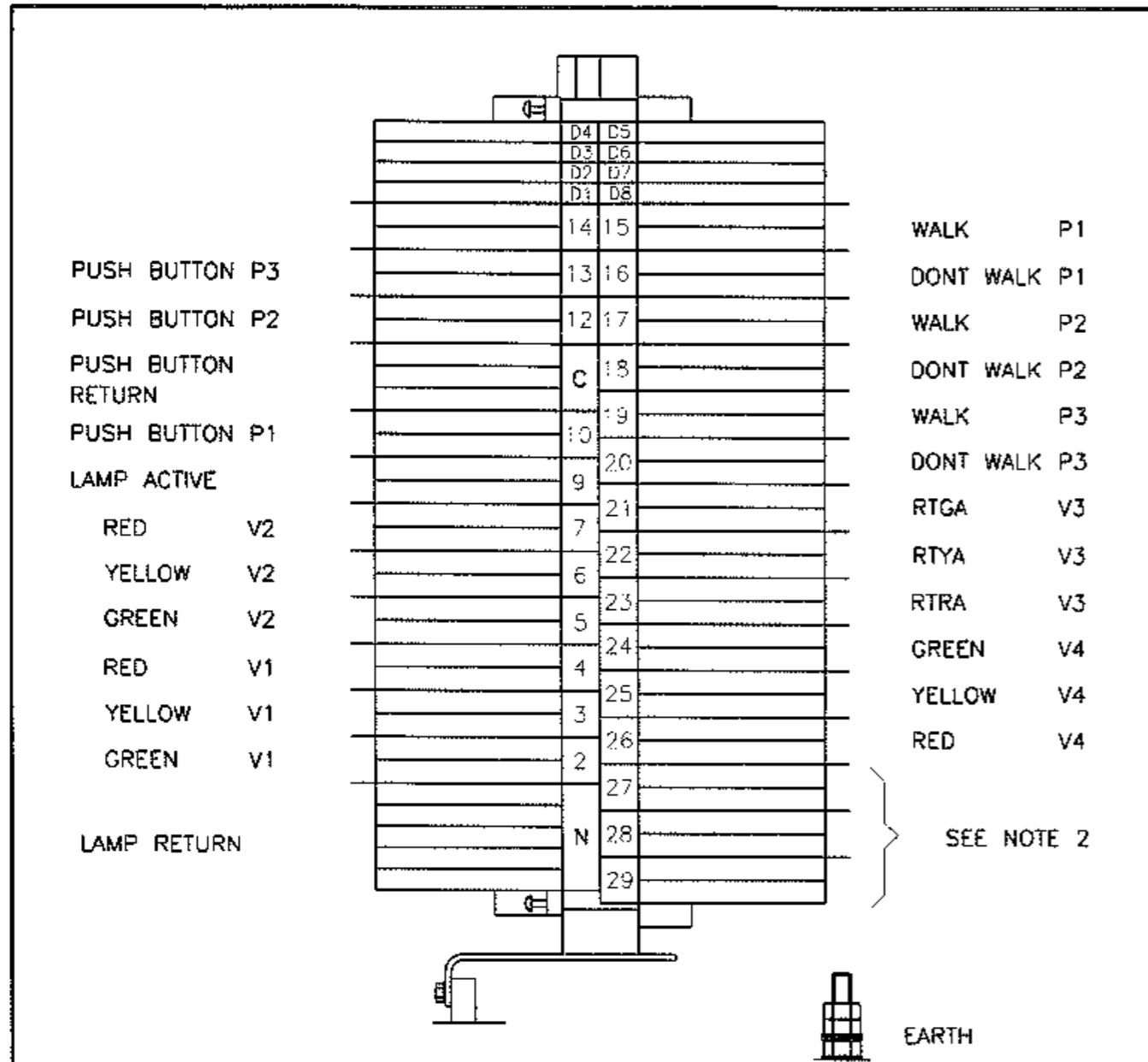
E ISSUE 16-08-99 J/1 TC2544 P-AN REDRAWN BWT E ISSUE 4-11-2010 PHASE LABELLING REPLACED BY SIGNAL GROUP LABELLING AK B.W.T.	REFERENCE DRAWINGS	
ROADS AND TRAFFIC AUTHORITY OF NSW TRAFFIC SIGNALS	SCALE	APPROVED:
TRAFFIC SIGNAL POST TOP ASSEMBLY SUGGESTED TERMINAL ALLOCATION EXAMPLE FOR TWO PHASE	SUPERSEDES:	MNGR STANDARDS & QUALITY
	DRAWN GC 02-07-84	ISSUE E
	CHECKED	
PASSED BWT 03-10-84	VD002-25	SHEET 2 OF 4



NOTES

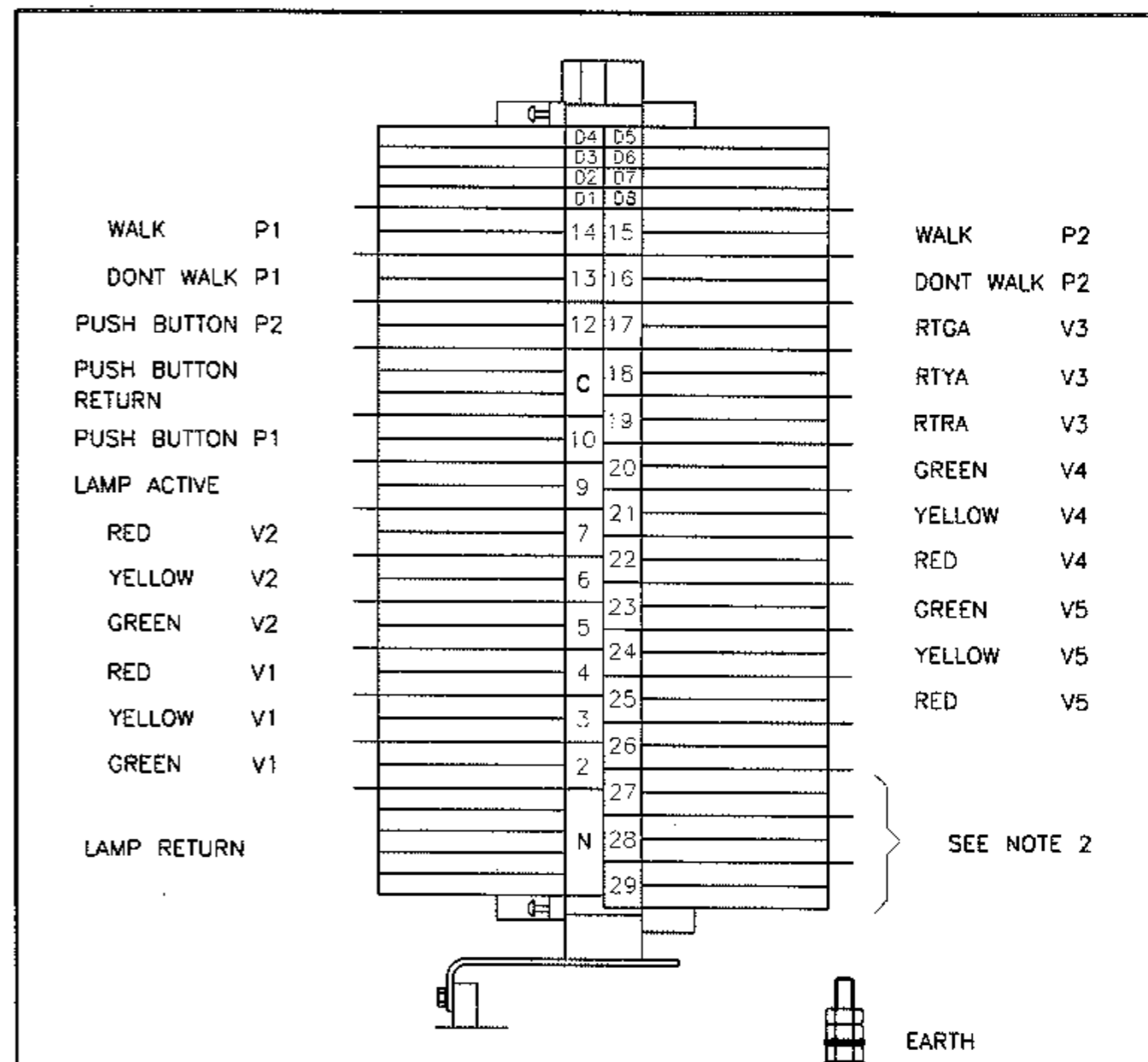
1. WHERE POSSIBLE TERMINALS AND CORES TERMINATING WITHIN SHALL HAVE CORRESPONDING NUMBERS AND THE BLACK (BK), GREY (GY) AND GREEN/YELLOW (G-Y) CORES MUST TERMINATE AT TERMINALS N, C AND EARTH (E) RESPECTIVELY.
2. TERMINALS 27, 28 & 29 DO NOT HAVE CORRESPONDING CORES. CORES 1, 8, & 11 DO NOT HAVE CORRESPONDING TERMINALS.
3. THE WHITE CORES 1, 8 & 11 SHALL BE KEPT AS SPARES WHERE POSSIBLE.

E ISSUE 16-08-99 J/1 TC2544 PLAN REDRAWN BWT E ISSUE 4-11-2010 PHASE LABELLING REPLACED BY SIGNAL GROUP LABELLING AK B.W.T.	REFERENCE DRAWINGS	
ROADS AND TRAFFIC AUTHORITY OF NSW TRAFFIC SIGNALS	SCALE	APPROVED:
TRAFFIC SIGNAL POST TOP ASSEMBLY SUGGESTED TERMINAL ALLOCATION GENERAL	SUPERSEDES:	MNGR STANDARDS & QUALITY
	DRAWN GC 02-07-84	ISSUE E
	CHECKED	
PASSED BWT 03-10-84	VD002-25	SHEET 1 OF 4



NOTES

1. WHERE POSSIBLE TERMINALS AND CORES TERMINATING WITHIN SHALL HAVE CORRESPONDING NUMBERS AND THE BLACK (BK), GREY (GY) AND GREEN/YELLOW (G-Y) CORES MUST TERMINATE AT TERMINALS N, C AND EARTH (E) RESPECTIVELY.
2. TERMINALS 27, 28 & 29 DO NOT HAVE CORRESPONDING CORES. CORES 1, 8, & 11 DO NOT HAVE CORRESPONDING TERMINALS.
3. THE WHITE CORES 1, 8 & 11 SHALL BE KEPT AS SPARES WHERE POSSIBLE.



NOTES

1. WHERE POSSIBLE TERMINALS AND CORES TERMINATING WITHIN SHALL HAVE CORRESPONDING NUMBERS AND THE BLACK (BK), GREY (GY) AND GREEN/YELLOW (G-Y) CORES MUST TERMINATE AT TERMINALS N, C AND EARTH (E) RESPECTIVELY.
2. TERMINALS 27, 28 & 29 DO NOT HAVE CORRESPONDING CORES. CORES 1, 8, & 11 DO NOT HAVE CORRESPONDING TERMINALS.
3. THE WHITE CORES 1, 8 & 11 SHALL BE KEPT AS SPARES WHERE POSSIBLE.

E ISSUE 18-08-99 J/J1 TC2544 PLAN REDRAWN. BH BWT F: ISSUE, 4-11-2010 PHASE LABELLING REPLACED WITH SIGNAL LABELLING. B.W.I. AK.	REFERENCE DRAWINGS	
ROADS AND TRAFFIC AUTHORITY OF NSW TRAFFIC SIGNALS	SCALE	APPROVED:
TRAFFIC SIGNAL POST TOP ASSEMBLY SUGGESTED TERMINAL ALLOCATION THREE PHASE (EXAMPLE 2)	SUPERSEDES:	MINOR STANDARDS & QUALITY
	DRAWN GC 02-07-84	ISSUE <input checked="" type="checkbox"/> F
	CHECKED	
PASSED BWT 03-10-84	VD002-25	SHEET 4 OF 4

E ISSUE 18-08-99 J/J1 TC2544 PLAN REDRAWN. BH BWT F: ISSUE, 4-11-2010 PHASE LABELLING REPLACED WITH SIGNAL GROUP LABELLING. B.W.I. AK.	REFERENCE DRAWINGS	
ROADS AND TRAFFIC AUTHORITY OF NSW TRAFFIC SIGNALS	SCALE	APPROVED:
TRAFFIC SIGNAL POST TOP ASSEMBLY SUGGESTED TERMINAL ALLOCATION THREE PHASE (EXAMPLE 1)	SUPERSEDES:	MINOR STANDARDS & QUALITY
	DRAWN GC 02-07-84	ISSUE <input checked="" type="checkbox"/> F
	CHECKED	
PASSED BWT 03-10-84	VD002-25	SHEET 3 OF 4

SYMBOLS FOR TRAFFIC SIGNAL EQUIPMENT			
TYPE	SYMBOL	REMARKS	REF PLAN
VISOR TYPE A OPEN		200 LONG FOR 200 DIA. LANTERNS 300 LONG FOR 300 DIA. LANTERNS (NOT SHOWN)	
VISOR TYPE B CLOSED STANDARD		200 LONG FOR 200 DIA. LANTERNS 300 LONG FOR 300 DIA. LANTERNS (NOT SHOWN)	
VISOR TYPE B CLOSED EXTENDED		300 LONG FOR 200 DIA. LANTERNS	
		400 LONG FOR 200 DIA. LANTERNS RARELY USED	
		400 LONG FOR 300 DIA. LANTERNS RARELY USED	
VERTICAL LOUVRE		FOR 200 DIA. LANTERNS ONLY	
HORIZONTAL LOUVRE		FOR 200 DIA. LANTERNS ONLY	
WOODEN LIGHT POLE		CAN BE USED FOR JOINT USE BUT NOT FOR SUPPLY	
WOODEN POWER POLE WITH OR WITHOUT LIGHT		CAN BE USED FOR JOINT USE AND/OR SUPPLY	
TYPE 1 POST		HEIGHT ABOVE GROUND TO BE NOTED	VM201-16
TYPE 2 POST		ALL LENGTHS OTHER THAN 4.1m LONG TO BE NOTED ON PLAN	VM202-1
SHORT PB POST TYPE 13		1.4m LONG	VM202-20
TYPE 3 MA		STANDARD LENGTH OF ARM 4.3m	FOR MAINTENANCE USE ONLY VM204-20
TYPE 4 MA		STANDARD LENGTH OF ARM 1.5m	VM203-13
5XL MAST ARM		STANDARD LENGTH OF ARM 5.5m	VM211-6 SHT 1 & 2
5L MAST ARM		STANDARD LENGTH OF ARM 5.0m	VM211-6 SHT 1 & 2
5S MAST ARM		STANDARD LENGTH OF ARM 2.5m	VM211-6 SHT 1 & 2
TYPE 6 POST		TCS POST WITH FACILITY OF DIRECTIONAL SIGN POST ATTACHMENT	VM212-2
TYPE 9 MA		LENGTH UP TO 7.0m IN 0.5m INCREMENTS	VM215-1
TYPE 10, 11 & 12 MA		LENGTH UP TO 16m	
TYPE 14 MFP		MULTIFUNCTION POLE WITHOUT OUTREACH ARM	
TYPE 15 MFP		MULTIFUNCTION POLE WITH OUTREACH ARM	
D ISSUE 23-04-99 1/1 TC2553 PLAN REDRAWN. ADDED MA TYPES 5 XL, 9, 10, 11 & 12 SHT BWT		REFERENCE DRAWINGS	
E ISSUE 4-11-2010 TYPE 13 PB POST WAS TYPE 2. TYPE 14 & 15 M.F. POLE TYPES ADDED. 400mm LONG VISOR FOR 200mm LANTERN ADDED. AK			
ROADS AND TRAFFIC AUTHORITY OF NSW TRAFFIC SIGNALS		SCALE	APPROVED: 29-03-82 FR HULSCHER MNGR STANDARDS & QUALITY
SYMBOLS & ABBREVIATIONS		SUPERSEDES: ISSUE C	ISSUE <input checked="" type="checkbox"/> A <input type="checkbox"/> B <input type="checkbox"/> C <input type="checkbox"/> D <input type="checkbox"/> E <input type="checkbox"/> F <input type="checkbox"/> G <input type="checkbox"/> H <input type="checkbox"/> I <input type="checkbox"/> J <input type="checkbox"/> K <input type="checkbox"/> L <input type="checkbox"/> M <input type="checkbox"/> N <input type="checkbox"/> O <input type="checkbox"/> P <input type="checkbox"/> Q <input type="checkbox"/> R <input type="checkbox"/> S <input type="checkbox"/> T <input type="checkbox"/> U <input type="checkbox"/> V <input type="checkbox"/> W <input type="checkbox"/> X <input type="checkbox"/> Y <input type="checkbox"/> Z
		DRAWN CS	ISSUE <input checked="" type="checkbox"/> A <input type="checkbox"/> B <input type="checkbox"/> C <input type="checkbox"/> D <input type="checkbox"/> E <input type="checkbox"/> F <input type="checkbox"/> G <input type="checkbox"/> H <input type="checkbox"/> I <input type="checkbox"/> J <input type="checkbox"/> K <input type="checkbox"/> L <input type="checkbox"/> M <input type="checkbox"/> N <input type="checkbox"/> O <input type="checkbox"/> P <input type="checkbox"/> Q <input type="checkbox"/> R <input type="checkbox"/> S <input type="checkbox"/> T <input type="checkbox"/> U <input type="checkbox"/> V <input type="checkbox"/> W <input type="checkbox"/> X <input type="checkbox"/> Y <input type="checkbox"/> Z
		CHECKED RB 3-3-82	ISSUE <input checked="" type="checkbox"/> A <input type="checkbox"/> B <input type="checkbox"/> C <input type="checkbox"/> D <input type="checkbox"/> E <input type="checkbox"/> F <input type="checkbox"/> G <input type="checkbox"/> H <input type="checkbox"/> I <input type="checkbox"/> J <input type="checkbox"/> K <input type="checkbox"/> L <input type="checkbox"/> M <input type="checkbox"/> N <input type="checkbox"/> O <input type="checkbox"/> P <input type="checkbox"/> Q <input type="checkbox"/> R <input type="checkbox"/> S <input type="checkbox"/> T <input type="checkbox"/> U <input type="checkbox"/> V <input type="checkbox"/> W <input type="checkbox"/> X <input type="checkbox"/> Y <input type="checkbox"/> Z
		PASSED BWT 8-3-82	ISSUE <input checked="" type="checkbox"/> A <input type="checkbox"/> B <input type="checkbox"/> C <input type="checkbox"/> D <input type="checkbox"/> E <input type="checkbox"/> F <input type="checkbox"/> G <input type="checkbox"/> H <input type="checkbox"/> I <input type="checkbox"/> J <input type="checkbox"/> K <input type="checkbox"/> L <input type="checkbox"/> M <input type="checkbox"/> N <input type="checkbox"/> O <input type="checkbox"/> P <input type="checkbox"/> Q <input type="checkbox"/> R <input type="checkbox"/> S <input type="checkbox"/> T <input type="checkbox"/> U <input type="checkbox"/> V <input type="checkbox"/> W <input type="checkbox"/> X <input type="checkbox"/> Y <input type="checkbox"/> Z
			VD003-6 SHEET 2 OF 7

TRAFFIC SIGNAL LANTERN DISPLAY SYMBOLS							
DISPLAY	SYMBOL		REMARKS	DISPLAY	SYMBOL		REMARKS
3 ASPECT VEHICLE TYPES			STANDARD RED, YELLOW, GREEN	5 ASPECT VEHICLE TYPE			RED, YELLOW GREEN, LTYA, LTGA
	200mm	300mm			200mm	300mm	
4 ASPECT VEHICLE TYPES			RED, YELLOW, GREEN, LTGA	6 ASPECT VEHICLE TYPES			RED, YELLOW, GREEN, LTRA, LTYA, LTGA
		NA					
		NA					
		NA					
		NA					
		NA					
2 ASPECT PEDESTRIAN TYPE			AS ABOVE BUT ARROW INDICATING DEGREE OF TURNING ANGLE	2 ASPECT PEDESTRIAN TYPE			PEDESTRIAN RED (DON'T WALK) PEDESTRIAN GREEN (WALK)
BUS LANTERN DISPLAYS			RED, YELLOW, GREEN, RTGA	BUS LANTERN DISPLAYS			RED, YELLOW, GREEN WHITE B MASK (4 ASPECT USE)
		NA				NA	
		NA				NA	
		NA				NA	
		NA				NA	
		NA				NA	
LRV (TRAM) LANTERN DISPLAY			RED, YELLOW, GREEN, LTRA	LRV (TRAM) LANTERN DISPLAY			RED T, YELLOW T, WHITE T MASKS
		NA				NA	
		NA				NA	
		NA				NA	
		NA				NA	
		NA				NA	
2 ASPECT BICYCLE TYPE			RED, YELLOW, GREEN, RTGA	2 ASPECT BICYCLE TYPE			BICYCLE RED MASK BICYCLE GREEN MASK
3 ASPECT BICYCLE TYPE			AS ABOVE BUT ARROW INDICATING DEGREE OF TURNING ANGLE	3 ASPECT BICYCLE TYPE			BICYCLE RED MASK BICYCLE YELLOW MASK BICYCLE GREEN MASK
		NA				NA	
		NA				NA	
		NA				NA	
		NA				NA	
		NA				NA	
NOTE ALL SYMBOLS OF VEHICULAR LANTERNS ASSUME USE OF TARGET BOARDS.			C ISSUE 01-07-97 1/1 TC2912 BUS & LRV (TRAM) LANTERN DISPLAY SYMBOLS ADDED. PLAN REDRAWN. BWT	C ISSUE 01-07-97 1/1 TC2912 BUS & LRV (TRAM) LANTERN DISPLAY SYMBOLS ADDED. PLAN REDRAWN. BWT			
				D ISSUE 20-02-98 1/1 TC2934 BUS LANTERN DISPLAY SYMBOL FOR 4 ASPECT USE CHANGED. BWT			
				E ISSUE 16-11-99 1/1 TC2995 BICYCLE LANTERN DISPLAY SYMBOLS ADDED. RVC			
				F ISSUE 3-11-2010 4 ASP. VEHICLE TYPES UPDATED AK			
ROADS AND TRAFFIC AUTHORITY OF NSW TRAFFIC SIGNALS			SCALE	APPROVED: 29-03-1982 FR HULSCHER MANAGER EQUIPMENT & STDS			
SYMBOLS AND ABBREVIATIONS			SUPERSEDES: ISSUE B	ISSUE <input checked="" type="checkbox"/> A <input type="checkbox"/> B <input type="checkbox"/> C <input type="checkbox"/> D <input type="checkbox"/> E <input type="checkbox"/> F <input type="checkbox"/> G <input type="checkbox"/> H <input type="checkbox"/> I <input type="checkbox"/> J <input type="checkbox"/> K <input type="checkbox"/> L <input type="checkbox"/> M <input type="checkbox"/> N <input type="checkbox"/> O <input type="checkbox"/> P <input type="checkbox"/> Q <input type="checkbox"/> R <input type="checkbox"/> S <input type="checkbox"/> T <input type="checkbox"/> U <input type="checkbox"/> V <input type="checkbox"/> W <input type="checkbox"/> X <input type="checkbox"/> Y <input type="checkbox"/> Z			
			DRAWN C. SPENCE	ISSUE <input checked="" type="checkbox"/> A <input type="checkbox"/> B <input type="checkbox"/> C <input type="checkbox"/> D <input type="checkbox"/> E <input type="checkbox"/> F <input type="checkbox"/> G <input type="checkbox"/> H <input type="checkbox"/> I <input type="checkbox"/> J <input type="checkbox"/> K <input type="checkbox"/> L <input type="checkbox"/> M <input type="checkbox"/> N <input type="checkbox"/> O <input type="checkbox"/> P <input type="checkbox"/> Q <input type="checkbox"/> R <input type="checkbox"/> S <input type="checkbox"/> T <input type="checkbox"/> U <input type="checkbox"/> V <input type="checkbox"/> W <input type="checkbox"/> X <input type="checkbox"/> Y <input type="checkbox"/> Z			
			CHECKED RB 3-3-82	ISSUE <input checked="" type="checkbox"/> A <input type="checkbox"/> B <input type="checkbox"/> C <input type="checkbox"/> D <input type="checkbox"/> E <input type="checkbox"/> F <input type="checkbox"/> G <input type="checkbox"/> H <input type="checkbox"/> I <input type="checkbox"/> J <input type="checkbox"/> K <input type="checkbox"/> L <input type="checkbox"/> M <input type="checkbox"/> N <input type="checkbox"/> O <input type="checkbox"/> P <input type="checkbox"/> Q <input type="checkbox"/> R <input type="checkbox"/> S <input type="checkbox"/> T <input type="checkbox"/> U <input type="checkbox"/> V <input type="checkbox"/> W <input type="checkbox"/> X <input type="checkbox"/> Y <input type="checkbox"/> Z			
			PASSED B JAYLOR 8-3-1982	ISSUE <input checked="" type="checkbox"/> A <input type="checkbox"/> B <input type="checkbox"/> C <input type="checkbox"/> D <input type="checkbox"/> E <input type="checkbox"/> F <input type="checkbox"/> G <input type="checkbox"/> H <input type="checkbox"/> I <input type="checkbox"/> J <input type="checkbox"/> K <input type="checkbox"/> L <input type="checkbox"/> M <input type="checkbox"/> N <input type="checkbox"/> O <input type="checkbox"/> P <input type="checkbox"/> Q <input type="checkbox"/> R <input type="checkbox"/> S <input type="checkbox"/> T <input type="checkbox"/> U <input type="checkbox"/> V <input type="checkbox"/> W <input type="checkbox"/> X <input type="checkbox"/> Y <input type="checkbox"/> Z			
				VD003-6 SHEET 1 OF 2			

ROADMARKINGS			
TYPE	SYMBOL	REMARKS	
TWO-LANE ROAD SEPARATION LINE (S1)		3.0m PAINT, 9.0m GAP & 0.10m WIDE	
MULTILANE ROAD SEPARATION LINE (S2)		6.0m PAINT, 6.0m GAP & 0.15m WIDE	
BARRIER LINE (BB)		2 UNBROKEN, 0.08m WIDE & 0.08m APART	
BARRIER LINE (BS)		1 UNBROKEN & 1 AS PER LANE LINE 0.08m WIDE & 0.08m APART	
LANE LINE (L1)		3.0m PAINT, 9.0m GAP & 0.08m WIDE	
MULTILANE ROAD LANE LINE (L3)		UNBROKEN, 0.08m WIDE	
PAVEMENT EDGE LINE (E1 & E3)		E1=35.0m PAINT, 1.0m GAP & 0.12m WIDE E3=UNBROKEN, 0.12m WIDE	
(OUTLINE) EDGELINE (E4 & E5)		UNBROKEN, 0.20m WIDE	
CONTINUITY LINE (C1)		1.0m PAINT, 3.0m GAP & 0.20m WIDE	
TURN LINE (T1)		0.6m PAINT, 0.6m GAP & 0.10m WIDE	
STOP LINE AT TCS		UNBROKEN, 0.30m WIDE (0.60m WIDE IF APPROACH SPEED IS 80km/h OR MORE)	
STOP LINE AT 'STOP' SIGNS (TF)		UNBROKEN, 0.20m WIDE	
HOLDING LINE (TB)		0.6m PAINT, 0.6m GAP & 0.20m WIDE	
PEDESTRIAN CROSSING		BROKEN, 0.15m WIDE (1.0m LONG & 0.3m GAP)	
PEDESTRIAN CROSSING WARNING		REFER TO DRG 0000.000.GS.0336	
PAVEMENT ARROWS		FOR STANDARD DIMENSIONS & SPACINGS REFER TO 'SIGNS & MARKINGS' MANUAL (SECTION 6.2)	
C ISSUE: 25-09-99 J/I TC2553 PLAN REDRAWN. DELETED PEN No. COLUMN. BH BWT		REFERENCE DRAWINGS	
ROADS AND TRAFFIC AUTHORITY OF NSW TRAFFIC SIGNALS		SCALE: SCA-E	APPROVED: 29-03-82 FR HULSCHER MNGR STANDARDS & QUALITY
SYMBOLS & ABBREVIATIONS		SUPERSEDES: ISSUE B DRAWN: DM 22-03-82 CHECKED: RB 23-03-82 PASSED: BWT 23-03-82	ISSUE: <input checked="" type="checkbox"/> D: <input type="checkbox"/> VD003-6 SHEET 4 OF 7

SYMBOLS FOR TRAFFIC SIGNAL EQUIPMENT			
TYPE	SYMBOLS	REMARKS	REF PLAN
STANDARD CONTROLLER		MAY BE PLACED NEAR BOUNDARY OR KERB	
POST-MOUNTED CONTROLLER			
STOP LINE DETECTOR		TO SCALE (DESIGN PLAN) TO SCALE (CABLE INSTALLATION)	VC005-17
ADVANCE OR VIOLATION DETECTOR		TO SCALE (DESIGN PLAN) TO SCALE (CABLE INSTALLATION)	VC005-18
PUSH BUTTON ON POST		SHOWN ON SIDE OF POST WHERE PHYSICALLY LOCATED	
AUDIO-TACTILE PB ON POST		SHOWN ON SIDE OF POST WHERE PHYSICALLY LOCATED	VE530-8
FOOTPATH CABLE JUNCTION PITS		SMALL PIT 450 x 300 mm	VC007-5
		LARGE PIT 600 x 450 mm	
PJ BOXES		STANDARD (SMALL) 330 x 270 mm.	VC007-4
		LARGE 400 x 300 mm.	
		EXTRA LARGE 400 x 400 mm.	
CABLE IN PIPE		PIPE WITH CABLE. PIPE SIZE, NUMBER, MATERIAL & COVER TO BE SHOWN ON PLAN	
PIPE		PIPE WITHOUT CABLE. PIPE SIZE, NUMBER, MATERIAL & COVER TO BE SHOWN ON PLAN	
EMERGENCY SERVICE PUSH BUTTON		SHOWN ON WALL IN FIRE OR AMBULANCE STATION WHERE PHYSICALLY LOCATED	VE535-1
EMERGENCY SERVICE GREEN & RED INDICATORS		SHOWN ON WALL IN FIRE OR AMBULANCE STATION WHERE PHYSICALLY LOCATED	VE535-1
L ISSUE: 11-05-99 J/I TC2553 PLAN REDRAWN. SMALL FOOTPATH PIT ADDED. BH BWT		REFERENCE DRAWINGS	
ROADS AND TRAFFIC AUTHORITY OF NSW TRAFFIC SIGNALS		SCALE:	APPROVED: 1982-03-29 FR HULSCHER MNGR STANDARDS & QUALITY
SYMBOLS & ABBREVIATIONS		SUPERSEDES: ISSUE D DRAWN: JB 06-11-81 CHECKED: RB 03-03-82 PASSED: BWT 08-03-82	ISSUE: <input checked="" type="checkbox"/> F: <input type="checkbox"/> VD003-6 SHEET 3 OF 7

PUBLIC UTILITIES & FEATURES

SYMBOL	ITEM	SYMBOL	ITEM
□	HYDRANT	T	TELEPHONE BOX
▲	STOP VALVE	⌂	MAIL BOX
#	GAS VALVE	BUS	BUS SHELTER
⊗	SEWER ACCESS COVER	STA	STA CABINET
E	ELECTRICITY AUTHORITY PIT	—	GRADED DRAIN
☼	STEEL OR CONCRETE LIGHT POLE	—	BOX DRAIN
⊠	STATE SURVEY MARK OR PERMANENT MARK	—	GRADED BOX DRAIN
▣	TELECOMMUNICATIONS PITS	—	DRIVEWAY
○	TELECOMMUNICATIONS DISTRIBUTION PILLAR	—	END OF KERB
—	BUILDING LINE	→	ONE WAY STREET SYMBOL
—	MEDIAN OR ISLAND	⚡	ELECT TRANSFORMER
—	KERB LINE	♂	POWER POLE & ELECT TRANSFORMER
- - - -	KERB OR ISLAND TO BE ALTERED	◦ □	MISCELLANEOUS (TYPE TO BE NOTED ON PLAN)
—	EDGE OF PAVEMENT	—	CULVERT
🌳	TREE OR SHRUB	⊙	STAY POLE
○ TO	TRAFFIC DOME	— \ —	FENCE
—	GUARD FENCE	—	KERB RAMP
—	TANGENT POINT	—	GATE

C ISSUE 16-9-99
1/1 TC2553 PLAN
REDRAWN.
RVC

BWT

REFERENCE DRAWINGS

ROADS AND TRAFFIC AUTHORITY OF NSW
TRAFFIC SIGNALS

SCALE

APPROVED: 29-03-82

F R HULSCHER

MANAGER STDS & QUALITY

SYMBOLS & ABBREVIATIONS

SUPERSEDES: ISSUE B

DRAWN JB 10-11-81

CHECKED RB 03-03-82

PASSED BWT 8-3-82

ISSUE C

VD003-6 SHEET 6 OF 7

SIGNS

TYPE	SYMBOL	REMARKS
TYPICAL REGULATORY SIGNS		NO RIGHT TURN
		NO LEFT TURN
		NO RIGHT TURN BUSES EXCEPTED
		NO ENTRY
		ALL TRAFFIC LEFT ALL TRAFFIC RIGHT
		STOP HERE ON RED ARROW
		DO NOT QUEUE ACROSS INTERSECTION
	ADVANCE SIGNAL WARNING	
ADVISORY SIGN		TURN LEFT AT ANY TIME WITH CARE
PEDESTRIAN CROSSING		ASSOCIATED WITH MARKED FOOT CROSSINGS
		LEFT TURN ON RED PERMITTED AFTER STOPPING
ONE-WAY TRAFFIC		ONE-WAY TRAFFIC LEFT ONE-WAY TRAFFIC RIGHT

C ISSUE 16-9-99
1/1 TC2553 PLAN
REDRAWN.
RVC

BWT

REFERENCE DRAWINGS

ROADS AND TRAFFIC AUTHORITY OF NSW
TRAFFIC SIGNALS

SCALE

APPROVED: 29-03-82

FR HULSCHER

MNGR STANDARDS & QUALITY

SYMBOLS & ABBREVIATIONS

SUPERSEDES: ISSUE B

DRAWN JB 17-11-81

CHECKED RB 3-03-82

PASSED BWT 8-3-82

ISSUE C

VD003-6 SHEET 5 OF 7

FACILITY	HOUSING TERMINALS	CABLE CORE		POST TERMINAL	
		29 CORE	3 CORE	STANDARD MA & ELP	PB POST
GREEN	'V1'	A3	2	2	
YELLOW	'V1'	A4	3	3	
RED	'V1'	A5	4	4	
GREEN	'V2'	A6	5	5	
YELLOW	'V2'	A7	6	6	
RED	'V2'	A8	7	7	
WALK	'P1'	A12	13	13	
DON'T WALK	'P1'	A14	14	14	
PUSH BUTTON 'P1'	E5	10	RED	10	PB
LAMP ACTIVE	A2	9		9	
LAMP RETURN	A1	BLACK		N	
PB RETURN	E3, E4	GREY	BLACK	C	PB
EARTH	EARTH STUD	G-Y	G-Y	E	FRAME
NUMBER OF SPARES		16			

NOTES

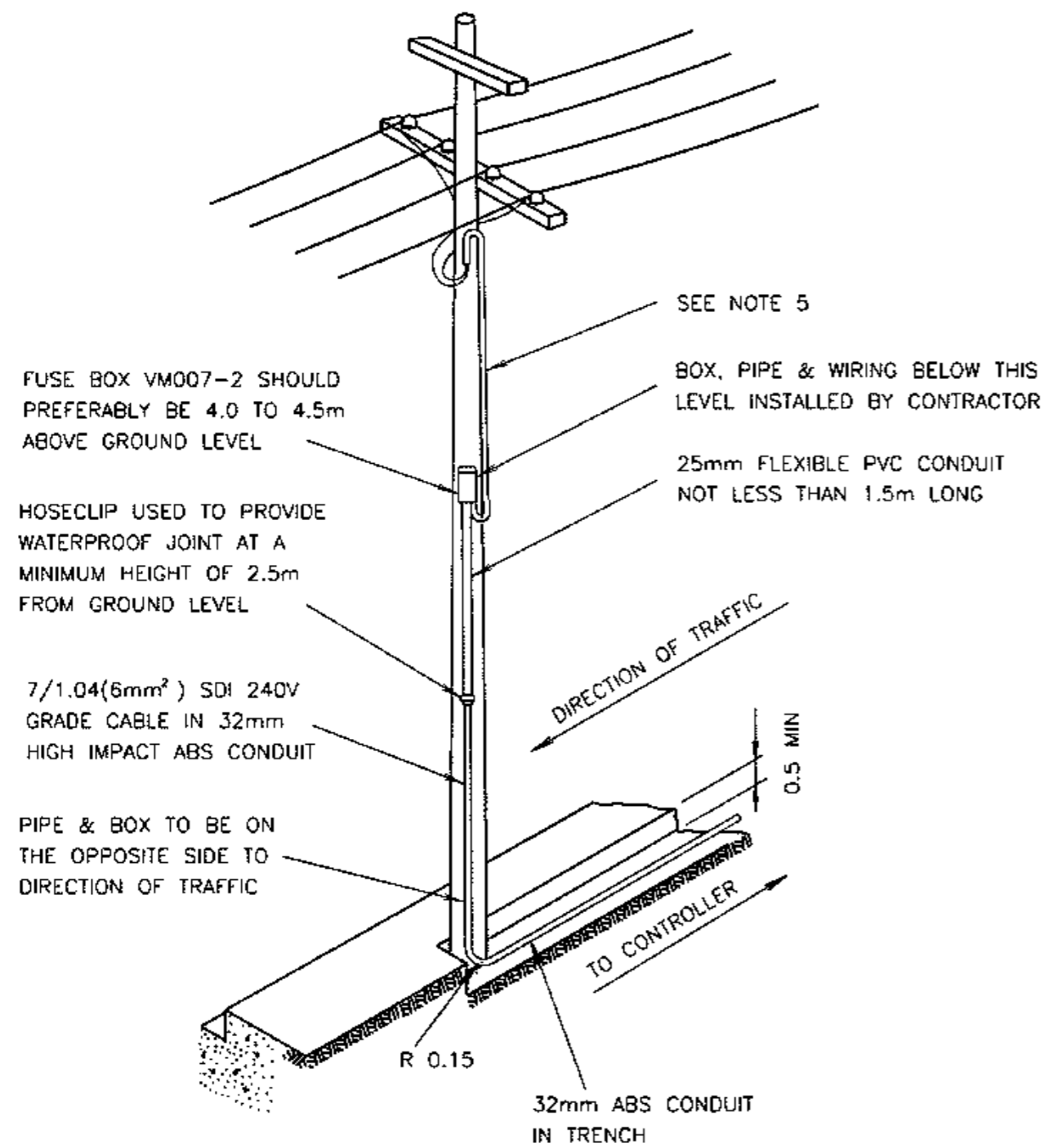
1. ALL WIRING TO PUSH BUTTONS SHALL BE IN V4-75 SHEATHED CABLE, HAVING 2 CORES 7/0.50 GAUGE IN ADDITION TO AN EARTHING CONDUCTOR.
2. AT POST TERMINALS ALL CABLES SHALL BE LABELLED WITH THEIR CABLE NUMBER AS SHOWN IN THE CABLE LAYOUT ON THE CABLE INSTALLATION PLAN.
3. THIS STANDARD CABLE CHART IS FOR NEW INSTALLATIONS ONLY.
4. THIS SYSTEM USES A STANDARD GROUND MOUNTED OR SMALL B TYPE CONTROLLER.
5. THIS CHART IS NOT TO BE USED FOR A STAGED PEDESTRIAN CROSSING. A STAGED PEDESTRIAN CROSSING SHALL HAVE AN INDIVIDUAL CABLE CHART PREPARED.

A ORIGINAL ISSUE B ISSUE 10-12-10 EARTH STUD WAS CL. CORRECT NUMBER OF SPARES FOR 29C CABLE MADE. AK. BWT. C ISSUE 20-05-12 REF TO PELICAN DELETED IN NOTE 5. JH	REFERENCE DRAWINGS DESIGN TYP V0002-27 CABLE INST TYP V0002-28	
	APPROVED: S. SRIVASTAVA MANAGER 12-11-10 EQUIPMENT & STANDARDS ISSUJE <input checked="" type="checkbox"/> A <input checked="" type="checkbox"/> B <input checked="" type="checkbox"/> C	
ROADS AND TRAFFIC AUTHORITY OF NSW TRAFFIC SIGNALS	SCALE	SUPERSEDES: V0006-18, V0006-19 DRAWN AK. CHECKED B.W.T. PASSED B. TAYLOR 12-11-10
STANDARD CABLE CHART FOR PEDESTRIAN ACTUATED MID-BLOCK SIGNAL LOCATIONS		V0006-20

ABBREVIATIONS

ANTTS	-	AUTOMATIC NETWORK TRAVEL TIME SYSTEM
C/C	-	CENTRE TO CENTRE
COND	-	CONDITIONAL
DET	-	DETECTOR
DO	-	DIAMOND OVERLAP
ECO	-	EARLY CUT-OFF
ES	-	EARLY START
ESP	-	ELECTRICITY SUPPLY POLE
GI	-	GALVANISED IRON
GOY	-	GREEN ON YELLOW
IP	-	INTERSECTION POINT
ISG	-	INTEGRATED SURVEY GRID
LS	-	LATE START
LTGA	-	LEFT TURN GREEN ARROW
LTOR	-	LEFT TURN ON RED
LTRA	-	LEFT TURN RED ARROW
LTYA	-	LEFT TURN YELLOW ARROW
MA	-	MAST ARM
MFC	-	MARKED FOOT CROSSING
NB	-	NOMINAL BORE (INTERNAL DIAMETER)
NTS	-	NOT TO SCALE
O/H	-	OVERHEAD
PB	-	PUSH BUTTON
PED	-	PEDESTRIAN
PJB	-	PAVEMENT JUNCTION BOX
RTGA	-	RIGHT TURN GREEN ARROW
RTRA	-	RIGHT TURN RED ARROW
RTYA	-	RIGHT TURN YELLOW ARROW
SCATS	-	SYDNEY CO-ORDINATED ADAPTIVE TRAFFIC SYSTEM
SG	-	SIGNAL GROUP
STA	-	STATE TRANSIT AUTHORITY
TCS	-	TRAFFIC CONTROL SIGNAL
TD	-	TRAFFIC DOME
TP	-	TANGENT POINT
U/G	-	UNDERGROUND
V-P	-	VEHICLE-PEDESTRIAN

E ISSUE 25-08-99 J/J1 TC2553 PLAN REDRAWN. BWT JH	REFERENCE DRAWINGS	
	APPROVED: 29-03-82 FR HULSCHER MNGR STANDARDS & QUALITY ISSUE E	
ROADS AND TRAFFIC AUTHORITY OF NSW TRAFFIC SIGNALS	SCALE	SUPERSEDES: ISSUE D DRAWN JB 19-11-81 CHECKED RB 03-03-82 PASSED BWT 08-03-82
SYMBOLS & ABBREVIATIONS		V0003-6 SHEET 7 OF 7



NOTES

1. ALL DIMENSIONS ARE IN METRES UNLESS OTHERWISE STATED.
2. PLAN SHOWS TYPICAL ARRANGEMENT OF CONSUMERS MAINS FROM OVERHEAD 240V, 50Hz SUPPLY.
3. THE INSTALLATION SHALL BE IN ACCORDANCE WITH THE REQUIREMENTS OF THE SUPPLY AUTHORITY.
4. FOR UNDERGROUND SUPPLY REFER TO PLANS VE500-10 & VE500-11.
5. CABLE & CONDUIT BETWEEN FUSE & OVERHEAD WIRE TO BE SUPPLIED BY CONTRACTOR WHEN REQUIRED BY SUPPLY AUTHORITY.
6. THE FUSE BOX MUST NOT BE INSTALLED IN AN EARTHED SITUATION AS DEFINED IN AS/NZS3000. WHERE THIS CANNOT BE AVOIDED, THE SUPPLY AUTHORITY SHALL BE CONSULTED CONCERNING THE NEED TO EARTH THE BOX.
7. ALL SADDLES SHALL BE DOUBLE HOLE GALVANISED AND ALL FASTENERS SHALL BE GALVANISED.

'O' ISSUE 23-07-97 J/1 TC2914 PLAN REDRAWN. DETAIL RE PIPE POSITION ON POLE & 32 HD PVC ALTERNATIVE IN TRENCH ADDED. RVC BWT	'P' ISSUE 27-05-03 NOTE 7 ADDED. GB IH BWT	'Q' ISSUE 29-06-04 NOTE 8 ADDED. BWT GB	'R' ISSUE: - 04-05-09 FUSE BOX HEIGHT WAS 4.5 TO 5.0m. LC/BT	'S' ISSUE: - 26-06-09 SDI WAS T.P.S. IH BWT	'T' ISSUE: 29-07-2016 NOTE 7 DELETED. NOTE 8 RENUMBERED TO SUIT. 20 NB GI PIPE REPLACED BY 32mm HIGH IMPACT ABS CONDUIT. DB BWT	REFERENCE DRAWINGS		ROADS AND TRAFFIC AUTHORITY OF NSW TRAFFIC SIGNALS	SCALE NTS	APPROVED: 21-05-84 FR HULSCHER MANAGER EQUIPMENT & STDS		
						FUSE BOX	VM007-2		GENERAL ARRANGEMENT OF CONSUMER MAINS FOR OVERHEAD SUPPLY	SUPERSEDES: ISSUE N	ISSUE	
						DRAWN	AR 18-07-83	CHECKED	RB 18-07-83	PASSED	B. TAYLOR 18-05-84	VE500-1

ENSURE WATER TIGHT SEAL AT CABLE ENTRY. IF REQUIRED INCREASE DIAMETER OF CABLE WITH HEAT SHRINK TUBE

PAVEMENT JUNCTION BOX COVER FRAME (COVER NOT SHOWN) SEE PLAN VMD16-10

ASSEMBLY OF U/G FUSE ENCLOSURE. SEE NOTE 1

SAWCUT FOOTPATH 600 x 600mm

CONCRETE PAVEMENT

A

246

600

SEE NOTE 3

TO SUPPLY AUTHORITY POINT OF CONNECTION (LENGTH TO BE KEPT AS SHORT AS POSSIBLE)

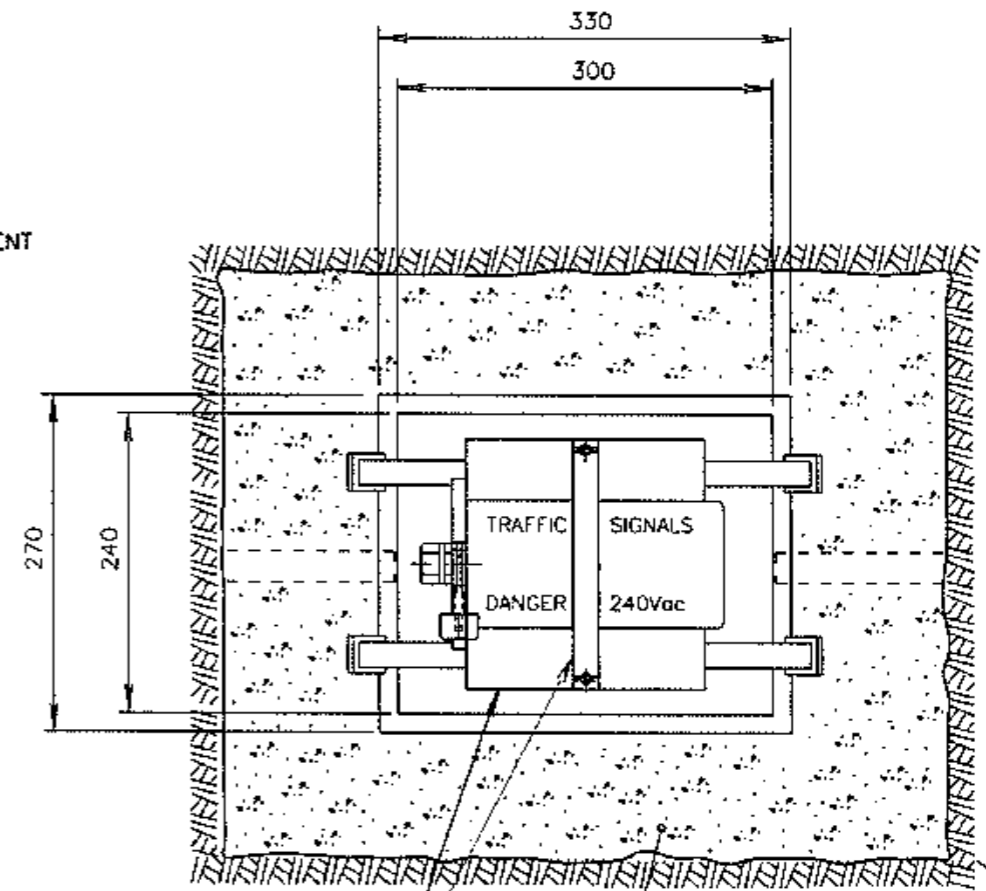
32 SIZE HD PVC CONDUIT UNLESS OTHERWISE SPECIFIED BY THE SUPPLY AUTHORITY

TO MAIN FUSE ON SWITCHBOARD IN TRAFFIC SIGNAL CONTROLLER

32 SIZE HD PVC CONDUIT

DRAIN HOLE TO BE PROVIDED IN BOTTOM OF PIT

AGGREGATE 200mm DEEP TO BE INSTALLED WHERE SOIL CONDITIONS REQUIRE



SUPPORTING CRADLE & SECURING BRACKET SEE PLAN VM052-5 (REFER NOTE 2)

PJ BOX FOOTING SEE PLAN VC007-4

SECTION A-A

CABLES REMOVED FOR CLARITY

- NOTES:-
1. FOR UG FUSE ENCLOSURE DETAILS & MATERIAL LIST REFER TO PLAN VE500-10 (RTA SUPPLY CAT No 70020483).
 2. THE SUPPORTING CRADLE WITH SECURING BRACKET IS A SEPARATE ITEM AS PER PLAN VM052-5 (RTA SUPPLY CAT NO 18231220).
 3. (a) ALL CONDUCTORS TO BE 7/1.04 (6mm²) SINGLE CORE DOUBLE INSULATED IN ACCORDANCE WITH AS 3147.
(b) ACTIVE AND NEUTRAL CABLES ARE TO HAVE 1.5 METRES OF SLACK COILED UP IN THE FUSE PIT AS SHOWN.

DIMENSIONS IN MILLIMETRES

D ISSUE 09-02-96 J/J1 TC2570 PLAN REDRAWN. RVC BWT E ISSUE 1999-04-19 J/J1 TC2978 INSULATING BUSHES DELETED FROM PIPE ENDS. 25 NB GI PIPE DELETED. IH BWT F ISSUE: 04-05-09 DRAIN HOLE AND AGGREGATE ADDED TO BOTTOM OF PIT. LC/BT G ISSUE: 01-12-14 U/G FUSE BOX RE- PLACED WITH WATER- TIGHT BELL ENCLOS- URE. LC/BT	REFERENCE DRAWINGS U/G FUSE ASSEMBLY VE500-10 PJ BOX VC007-4 SUPPORT CRADLE VM052-5		ROADS AND TRAFFIC AUTHORITY OF NSW TRAFFIC SIGNALS		SCALE		APPROVED: 11-10-89 D VIEYRA MANAGER STANDARDS & QUALITY	
	INSTALLATION OF UNDERGROUND FUSE BOX FOR TRAFFIC SIGNALS			SUPERSEDES: ISSUE C		ISSUE <input checked="" type="checkbox"/> <input checked="" type="checkbox"/> <input checked="" type="checkbox"/> <input type="checkbox"/> <input type="checkbox"/> <input type="checkbox"/> <input type="checkbox"/>		
				DRAWN AS 17-12-85		CHECKED RB 14-01-86		
				PASSED BWT 10-10-89		VE500-11		

POST MOUNTED AUDIO-TACTILE DRIVER UNIT CHART	
DESCRIPTION	CABLE COLOUR
240V AC ACTIVE SUPPLY	BROWN
NEUTRAL	LIGHT BLUE
EARTH	GREEN/YELLOW
240V A.C. WALK SIGNAL	ORANGE
TRANSDUCER	WHITE (TWISTED PAIR)

NOTES

1. THE ORANGE CORE IS TO BE CONNECTED TO THE APPROPRIATE 240V WALK SIGNAL TERMINAL FOR THE PEDESTRIAN PHASE AT THE POST.
2. THE WHITE (TWISTED PAIR) CORES ARE TO BE CONNECTED DIRECT TO THE TRANSDUCER IN THE PUSH-BUTTON ASSEMBLY, THAT IS, NOT VIA THE POST TERMINALS.
3. THE PB ACTIVE AND PB RETURN ARE TO BE CONNECTED AS STANDARD BETWEEN THE PB ASSEMBLY AND POST TERMINALS.
4. THE 240V ACTIVE SUPPLY (BROWN CORE) SHALL BE TAKEN FROM THE LOAD SIDE OF THE LAMP BLACK-OUT RELAY CONTACT, (VIA THE FACILITY SWITCH AND LAMP FUSE). IT MUST NOT BE TAKEN FROM THE DETECTOR OR CONTROLLER FUSE.

D ISSUE 19-08-99 J/JI TC2560 PLAN REDRAWN. IH BWT	REFERENCE DRAWINGS	
	AUDIO TACTILE INSTALL	VE530-8
ROADS AND TRAFFIC AUTHORITY OF NSW TRAFFIC SIGNALS		SCALE
APPROVED: 24-06-81 FR HULSCHER MANAGER STDS & QUALITY		
POST MOUNTED AUDIO-TACTILE DRIVER UNIT CHART		SUPERSEDES: ISSUE C
DRAWN	LP 12-6-81	ISSUE
CHECKED	BWT 22-05-81	
PASSED	BWT 22-06-81	VE530-7

D ISSUE 19-08-99



D ISSUE 19-08-99 J/JI TC2561 PLAN REDRAWN. IH BWT	REFERENCE DRAWINGS	
	AUDIO-TACTILE CONNS	VE530-7
ROADS AND TRAFFIC AUTHORITY OF NSW TRAFFIC SIGNALS		SCALE
APPROVED: 5-11-81 FR HULSCHER MANAGER STDS & QUALITY		
METHOD OF INSTALLATION OF AUDIO-TACTILE SIGNAL FACILITIES		SUPERSEDES: ISSUE C
DRAWN	LP 04-11-81	ISSUE
CHECKED	PB 04-11-81	
PASSED	BWT 5-11-81	VE530-8

AUDIO-TACTILE (A/T) DRIVER UNIT
(SEE NOTE 7)

AUDIO-TACTILE PUSH-BUTTON ASSEMBLY

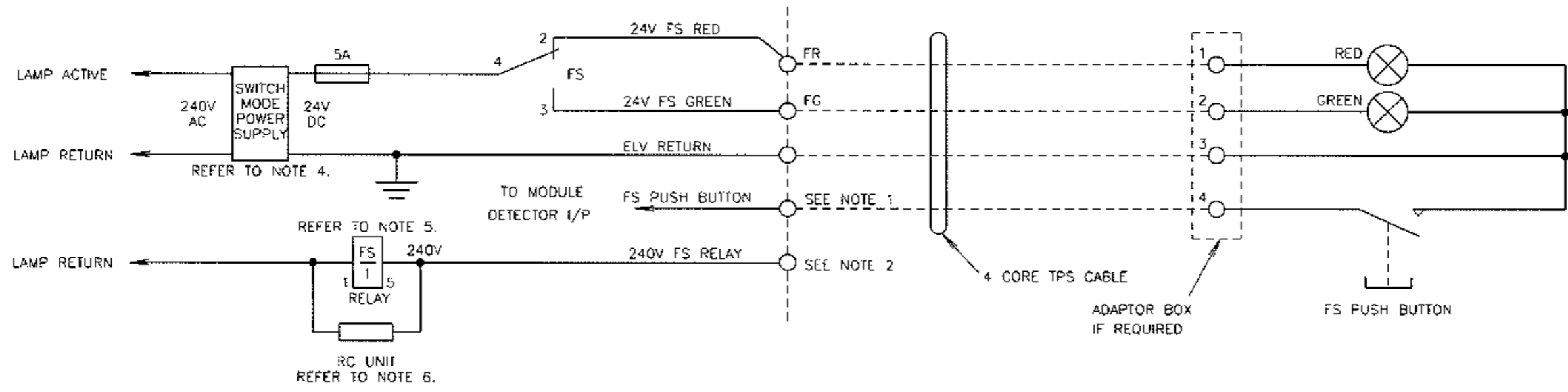
PAVEMENT LEVEL

NOTES

1. AUDIO-TACTILE PUSH-BUTTON ASSEMBLIES SHOULD ONLY BE INSTALLED WHERE SPECIFIED ON THE DESIGN PLANS WHERE IT IS INDICATED THUS:  IN COMPARISON TO THE STANDARD PUSH-BUTTON SYMBOL SHOWN THUS: 
2. AUDIO-TACTILE FACILITIES SHALL NOT BE FITTED TO INTERMEDIATE PUSH-BUTTON ASSEMBLIES LOCATED ON CENTRE MEDIANS. ONLY TO PUSH-BUTTON ASSEMBLIES LOCATED AT THE ENDS OF PEDESTRIAN CROSSINGS.
3. WHERE SHORT PUSH-BUTTON POSTS ARE INVOLVED, THE A/T DRIVER UNIT IS TO BE MOUNTED ON THE NEAREST SIGNAL POST WHICH CARRIES THE ASSOCIATED WALK SIGNAL ACTIVE.
4. ONLY ONE AUDIO-TACTILE PUSH BUTTON IS TO BE INSTALLED ON A POST. A SHORT PUSH BUTTON POST MAY BE REQUIRED FOR SEGREGATION PURPOSES.
5. PROVISION IS TO BE MADE FOR A CONTINUOUS 240V ACTIVE AT THE TOP OF EVERY POST REQUIRING AN A/T DRIVER UNIT. THIS 240V ACTIVE SUPPLY SHALL BE TAKEN FROM THE LOAD SIDE OF THE LAMP BLACK-OUT RELAY CONTACT (VIA THE FACILITY SWITCH AND LAMP FUSE) i.e. THE 240V SUPPLY MUST NOT BE TAKEN FROM THE DETECTOR OR CONTROLLER FUSE.
6. FOR ELECTRICAL CONNECTION DETAILS OF AUDIO-TACTILE FACILITIES, REFER TO PLAN VE530-7.
7. THE AUDIO TACTILE HOUSING SHALL BE INSTALLED ADJACENT TO THE PEDESTRIAN LANTERN.

CONTROLLER HOUSING

FIRE/AMBULANCE STATION

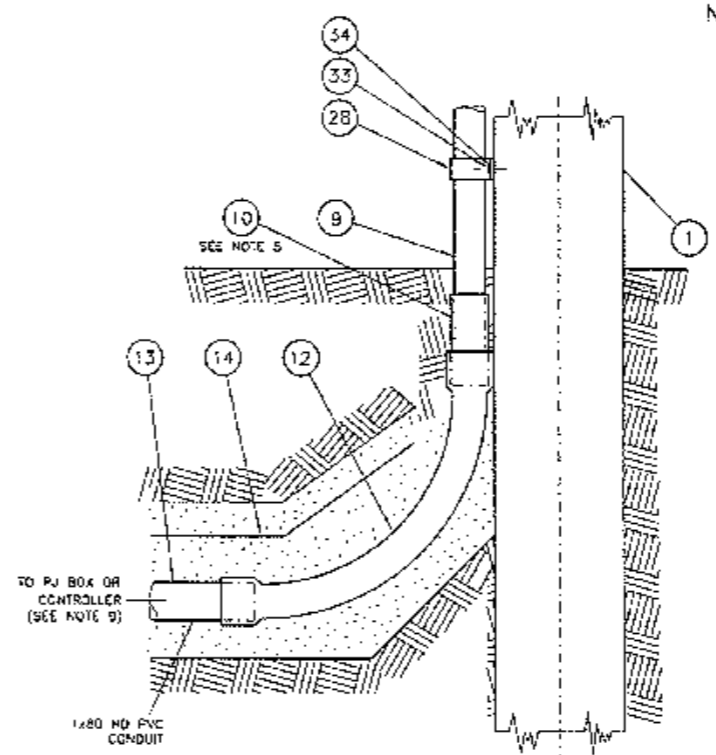
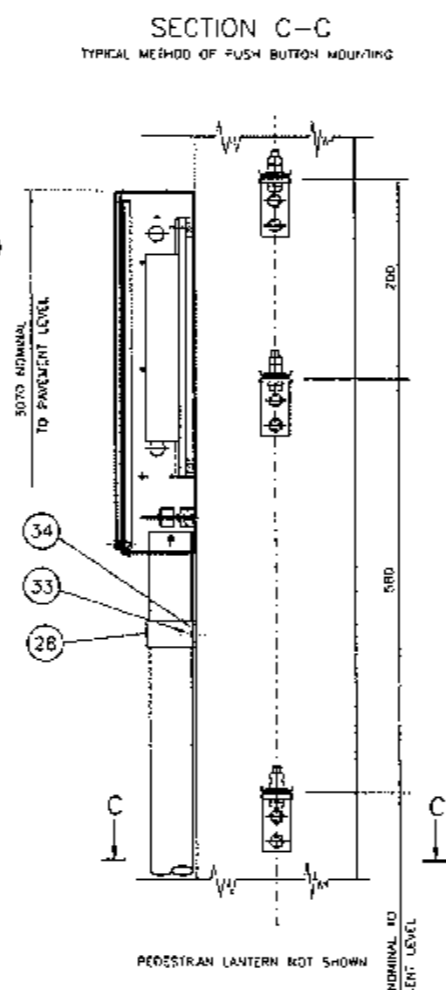
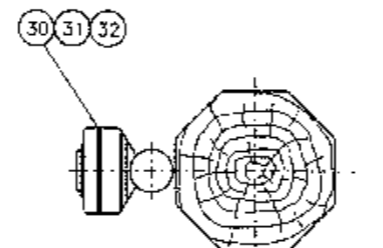
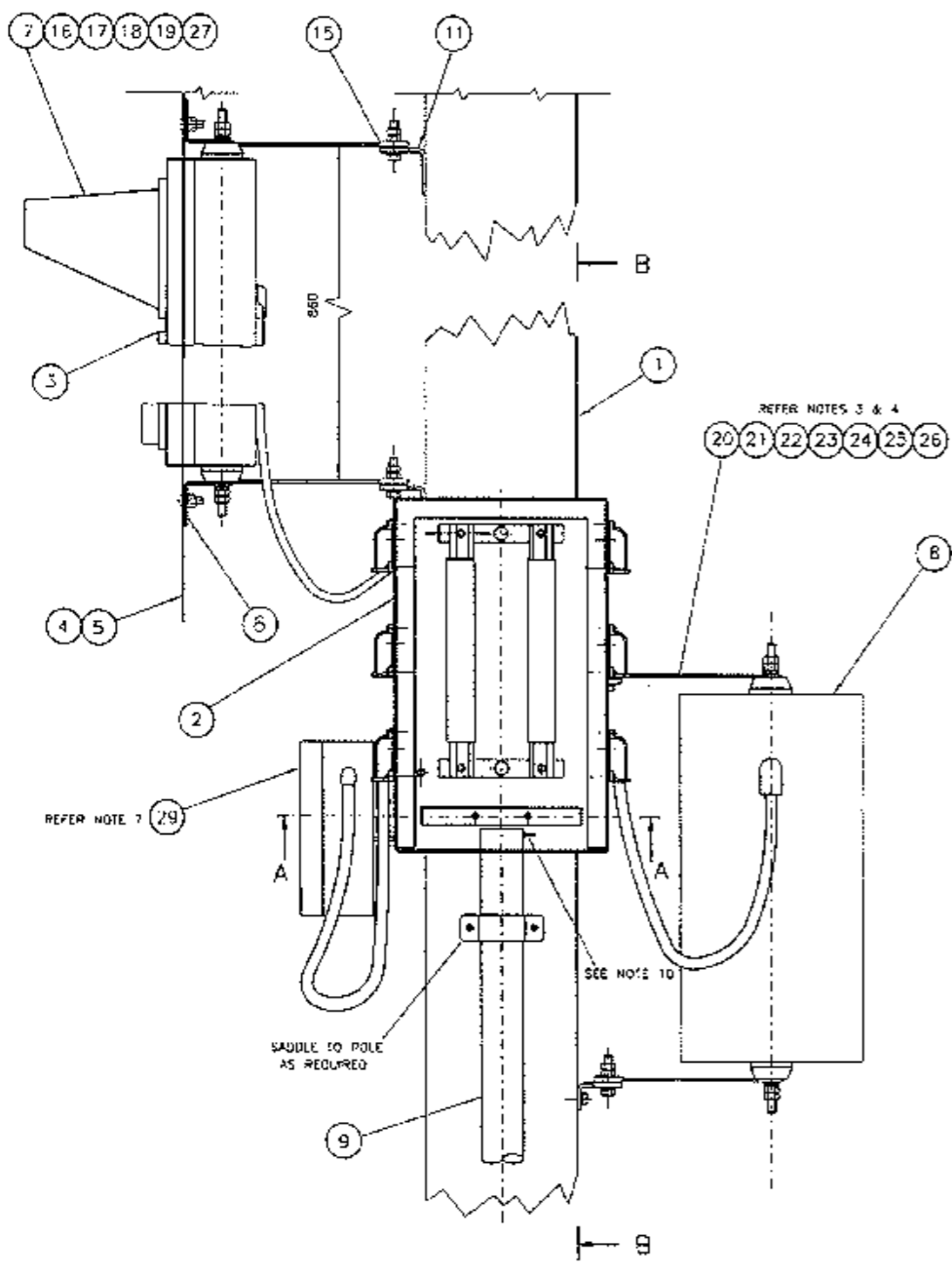


NOTES

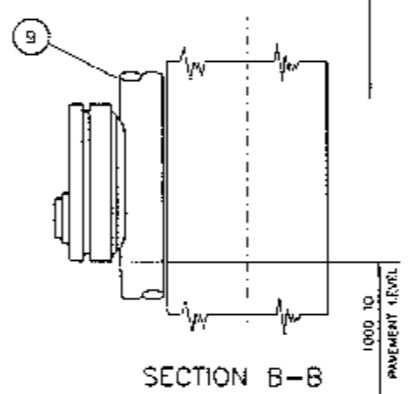
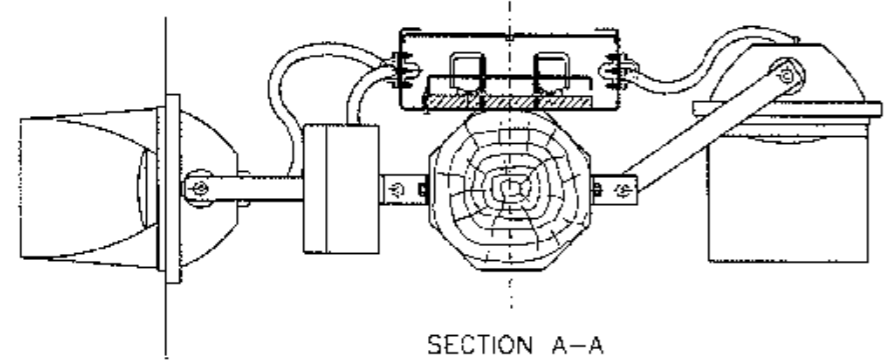
1. THE FIRE STATION (FS) PUSH-BUTTON HOUSING TERMINAL WILL BE ALLOCATED BY ADAPTIVE ENGINEERING GROUP FOR EACH SITE.
2. THE ADAPTIVE ENGINEERING GROUP WILL NOMINATE THE 240V FS SIGNAL GROUP FOR EACH SITE IN THE USUAL MANNER BUT ONLY THE 240V FS GREEN WILL BE USED TO OPERATE THE AUX FS RELAY.
WARNING - DO NOT CONNECT ANY EXTERNAL CORES TO THESE TERMINALS.
3. THE CONTRACTOR SHALL SUPPLY ITEMS 1 TO 6 (INCLUSIVE) AS REQUIRED.
4. THE SWITCH MODE POWER SUPPLY, 'TRACO POWER' 60W DIN-RAIL PANEL MOUNT 24V DC, 2.5A, PART No. TBL 060-124, AVAILABLE FROM RS COMPONENTS P/L, STOCK No. 667-0854.
5. THE 'FS' RELAY IS AN 'OMRON' 240V AC PART No. G2R-1-SN230AC(S) AND RELAY SOCKET PART No. P2RF-05-E, AVAILABLE FROM RS COMPONENTS P/L, STOCK No. 353-865 AND 353-944.
6. THE RC UNIT IS A 'KEMET' 220nF 100 OHMS 250VAC, 630V DC, PART No. PMR209MC6220M100R30, AVAILABLE FROM RS COMPONENTS P/L, STOCK No. 209-241.
7. THERE MAYBE A FEW LOCATIONS WHERE THE RED & GREEN INDICATORS ARE NOT CALLED FOR INSIDE OF THE STATION HOUSE & ONLY THE PUSHBUTTON IS CALLED FOR ON THE DESIGN LAYOUT PLAN. IN THIS CASE ITEMS 3 TO 6 INCLUSIVE ARE NOT REQUIRED. THIS WILL ALSO APPLY WHERE A NORMAL 2 ASPECT 240V RED & GREEN LANTERN IS MOUNTED ON A TYPE 2 SIGNAL POST AT THE FRONT OF THE PREMISES.

ITEM	DESCRIPTION	DRG NO	QTY
6	TERMINAL BLOCK KLIPPON BK12 OR EQUIVALENT		1
5	RIGID PVC ADAPTOR BOX CLIPSAL 265/4		1
4	Q SERIES LED BEACON, SWITCHES PLUS COMPONENTS P/L PART No 874162405 24V AC/DC QDS RED STEADY BEACON		1
3	Q SERIES LED BEACON, SWITCHES PLUS COMPONENTS P/L PART No 874166405 24V AC/DC QDS GREEN STEADY BEACON		1
2	ENGRAVED PLATE	VM620-19	1
1	PUSH BUTTON HPM WS/170/X OR CLIPSAL 56PB		1

J ISSUE 17.09.93 J/1 TC1061 PLAN REDRAWN, IN ITEM 5 LAMP WAS 60W. REF. PLAN ITEM 2 WAS VM620-2. Y.B. R.V.C. K ISSUE 16-04-1999 J/1 IC2976 NOTE 3 ALTERED, DELETED NOTE 4 AND CONTROLLER TABLE. TERMS FR & FG ADDED AS STANDARD. IH L ISSUE: 16-07-15 LIGHT FITTINGS, 32V LAMPS REPLACED WITH 24V LED BEACONS. PLAN REVISED TO SUIT. LC/BWT. M ISSUE 18-10-16 NOTES 4, 5 AND 6 ADDED FOR CONTROLLER ITEMS CURRENTLY USED. DB BWT N ISSUE 28-04-2017 ITEM 4 PART NO. WAS 874167405. IH/BWT O ISSUE 28-05-2018 NOTE 7 ADDED. LC/BWT	REFERENCE DRAWINGS ENGRAVED PLATE VM620-19	ROADS AND MARITIME SERVICES TRAFFIC SIGNALS	SCALE SUPERSEDES: ISSUE 1	APPROVED: 10.11.83 F. HULSCHER MANAGER STANDARDS & QUALITY	
	CONNECTION DIAGRAM FOR FIRE/AMBULANCE STATION SIGNAL CONTROL USING 24V SUPPLY			DRAWN A OIXON CHECKED B. TAYLOR PASSED B. TAYLOR 09.11.83	ISSUE <input checked="" type="checkbox"/> <input checked="" type="checkbox"/> <input checked="" type="checkbox"/> <input checked="" type="checkbox"/> <input checked="" type="checkbox"/> <input checked="" type="checkbox"/> <input type="checkbox"/> <input type="checkbox"/>
					VE535-1



- NOTES**
1. SCREWS IN BOX COVER TO BE FITTED AFTER THE COVER HAS BEEN INSERTED INTO THE GUIDE RAILS IN THE BOX.
 2. AFTER ALL SIGNALS HAVE BEEN AIMED, ALL LANTERNS TO BE SECURELY LOCKED IN POSITION BY INDEPENDANT MECHANICAL MEANS.
 3. STANDARD MOUNTING STRAPS AS SHOWN ARE PART OF THE LANTERN ASSEMBLY, BUT IF STRAPS HAVE TO BE SELECTED TO SUIT INDIVIDUAL SITE REQUIREMENTS, REFER TO ITEMS 20 TO 26 INCLUSIVE.
 4. USING ADJUSTMENT PROVIDED BY LANTERN STRAPS, ADJUST ALL LANTERNS TO BE VERTICAL WHEN VIEWED FROM THE FRONT. THIS IS THE FINAL ADJUSTMENT TO BE MADE AFTER ALL LANTERNS, TARGET BOARDS AND AUXILIARY EQUIPMENT HAVE BEEN MOUNTED ON THE POLE.
 5. FOR A 3+2 ASPECT LANTERN DISPLAY, THE LANTERN LEVS TO BE BLANKED OUT HAS TO BE REPLACED BY A BLANKING OUT DISC (ITEM 19) AND THE VISOR & LAMP OF THIS LANTERN HAVE TO BE REMOVED.
 6. IF SPECIAL ATTACHMENTS LIKE CLOSED TYPE VISORS, ARROW MASKS, LOUVRES ETC HAVE TO BE USED, REFER TO THE OPTIONAL MATERIAL LIST FOR DETAILS.
 7. THE AUDIO-TACTILE HOUSING (ITEM 29) IS SHOWN IN AN APPROXIMATE POSITION.
 8. A SHORT LENGTH OF 80mm HD PVC CONDUIT TO BE USED BETWEEN THE G.L. PIPE AND THE ELBOW TO REDUCE THE CLEARANCE AROUND THE PIPE, APPLY SEALANT AROUND THE PIPE ENTRY.
 9. UNLESS POLE IS LOCATED CLOSE TO CONTROLLER, THE PIPE SHALL BE TERMINATED IN A RJ PIT LOCATED BETWEEN 1 & 3 METRES FROM THE POLE.
 10. THE INSTALLER SHALL ENSURE ELECTRICAL CONTINUITY IS MAINTAINED BETWEEN THE G.L. PIPE AND THE TERMINAL BOX FOR EARTHING PURPOSES BY MEANS OF AN EARTH SCREW AND EARTH WIRE FROM THE PIPE TO THE EARTH TERMINAL.
 11. LOCK WASHERS (ITEM 15) ARE TO BE INSTALLED ON ALL LANTERN MOUNTING BRACKETS (ITEM 11). LOCK WASHERS ARE NORMALLY SUPPLIED WITH THE BRACKET.



OPTIONAL MATERIAL

ITEM	DESCRIPTION	MATERIAL / CAT No	FINISH	RTA SUPPLY CAT No	QUANTITY
34	FLAT WASHER M12	MILD STEEL	HD GALV		5
33	COACH SCREW HEX. HEAD M12 x 75 LONG	MILD STEEL	HD GALV		5
32	RED P3 ASSEMBLY WITH AUDIO/TACTILE FACILITY & SINGLE ARROW	VM041-31		70010011	1
31	PEDESTRIAN PUSH BUTTON DIRECTION ARROW DOUBLE	VM041-32		70010038	1
30	PEDESTRIAN PUSH BUTTON DIRECTION ARROW SINGLE	VM041-32		70010023	1
29	HOUSING FOR AUDIO TACTILE DRIVER UNIT	VE530-8		70010105	1
28	HD SADDLE TO SUIT 65 NB G.L. PIPE (HAYMAN INDUSTRIES)	MILD STEEL	HD GALV		3
27	LOUVRES Ø200	VM208-45		70015552	
26	MOUNTING STRAPS, 100 BETWEEN HOLE CENTRES	VM012-7		18230305	
25	" " " " 150	"	"	18230554	
24	" " " " 200	"	"	18230542	
23	" " " " 250	"	"	18230530	
22	" " " " 300	"	"	18230559	AS REQUIRED
21	" " " " 350	"	"	18230577	
20	" " " " 400	"	"	18230410	
19	BLANKING-OUT DISC Ø200	VM208-59		70010410	
18	ARROW MASK Ø200	VM208-27		70016060	
17	CLOSED TYPE 'B' VISOR, Ø200 x 300 LONG	VM208-28		70021890	
16	CLOSED TYPE 'B' VISOR, Ø200 x 200 LONG	VM208-29		70023822	

GENERAL MATERIAL

ITEM	DESCRIPTION	MATERIAL / CAT No	FINISH	RTA SUPPLY CAT No	QUANTITY
15	LOCK WASHER FOR LANTERN MOUNTING STRAP	VM200-24		18230542	TO SUIT
14	POLYMERIC CABLE COVER STRIP	VC001-9			TO SUIT
13	CONDUIT 80mm	HD PVC			TO SUIT
12	ELBOW 80mm	HD PVC			1
11	LANTERN MOUNTING BRACKET	VM200-30		18230338	AS REQUIRED
10	SHORT LENGTH OF 80mm HD PVC CONDUIT	HD PVC			TO SUIT
9	65 NB MEDIUM DUTY PIPE TO AS1074	MILD STEEL	HD GALV		1
8	PEDESTRIAN LANTERN INCLUDING VISOR			70015256	AS REQUIRED
7	OPEN VISOR TYPE 'A'	VM208-31		70023814	3
6	TARGET BOARD MOUNTING BRACKET	VM208-13		70010160	2
5	TARGET BOARD 3+3 ASPECT Ø200	VM208-14		70010712	1
4	TARGET BOARD 3 ASPECT Ø200	VM208-14		70010690	1
3	3 ASPECT Ø200 LANTERN			70015161	1
2	TERMINAL BOX ASSEMBLY	VM015-21		18230667	1
1	WOODEN POST				1

0 ISSUE 11-08-99
 1/1 BY: 2782
 DIM. REQUIREMENTS & REF TO
 COR-ARMY VISORS AND
 4 ASPECT LANTERNS
 DELETED. ITEMS 15,
 25, 26, 37 & 38 ADDED
 FROM M05 CHANGED.
 NOTES 1, 12 AND 13
 ALIGNED.
 B.M.
 0 ISSUE 10-03-94
 METHOD OF PIPE ENTRY
 INTO TERMINAL BOX
 CHANGED.
 B.M.
 3 ISSUE 27-05-2011
 DISTANCE TO THE 1st LUG
 (ITEM 11) WAS 220mm
 FROM GROUND LEVEL.
 DISTANCE BETWEEN THE
 2nd & 3rd LUGS WAS
 200mm.
 B.M.
 5 ISSUE 11-05-2016
 IN SECTION E-B. ITEM 9
 WAS 15.
 B.M.

REFERENCE DRAWINGS

DESCRIPTION	DATE
TERMINAL BOX ASSEMBLY	VM015-21
TERMINAL BLOCK	VM015-12
GENERAL ARRANGEMENT	VM015-13
TYPICAL ERECTION	VM015-9
AUDIO/TACTILE MOUNTING BRACKET	VM012-7
LOCK WASHER	VM200-24
LANTERN STRAPS	VM012-7

DESIGNED BY: CHRISTIE 09-10-81
 CHECKED BY: 15-10-81
 PASSED BY: 10-12-81
 APPROVED: O. CLARK
 DATE: 18-12-1981

ROADS AND MARITIME SERVICES
TRAFFIC SIGNALS

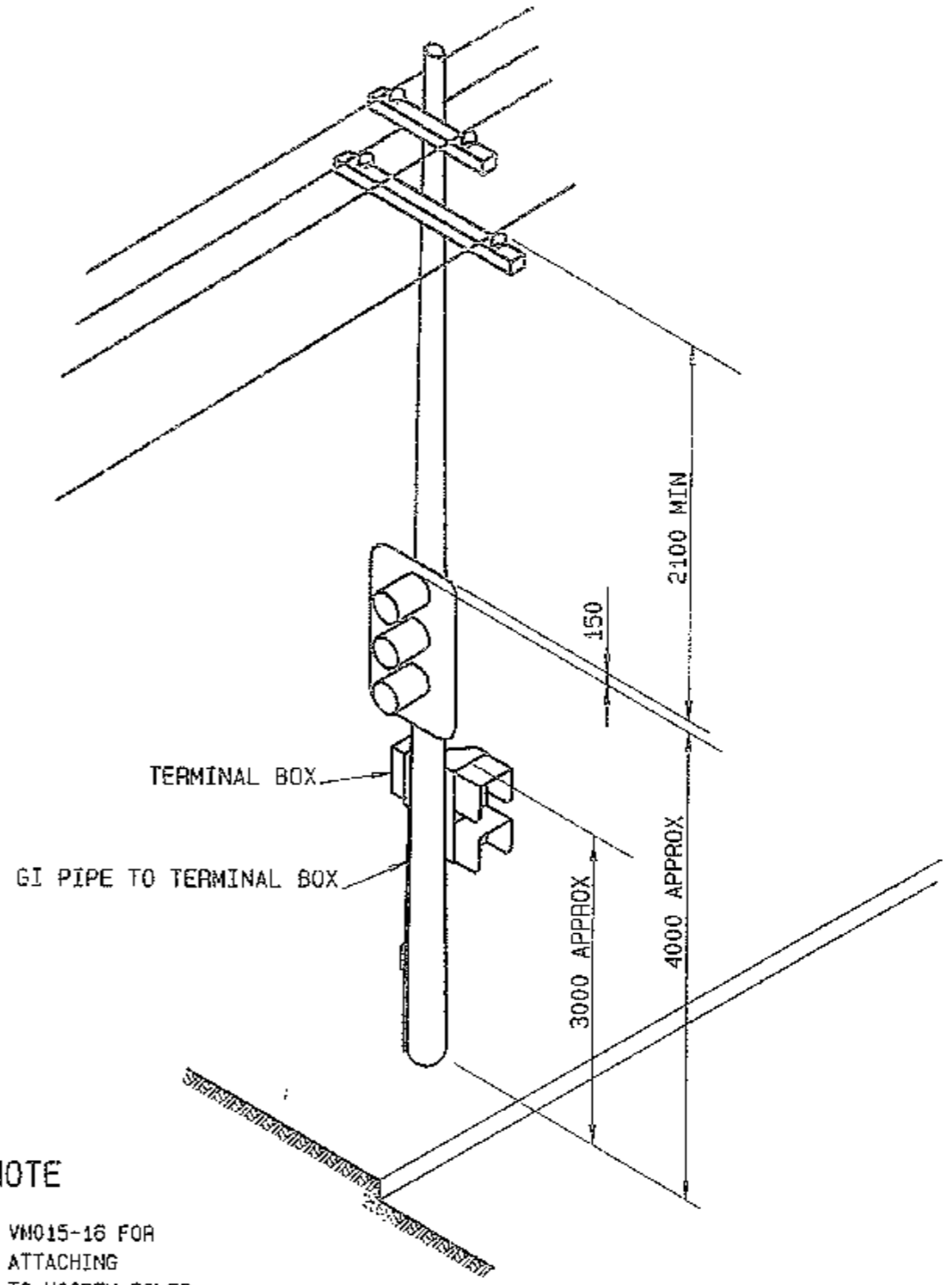
ASSEMBLY DETAILS
OF THE TERMINAL BOX, LANTERNS AND
PUSH BUTTONS ON WOODEN POLES

SHEET SIZE: A1
 FILE NO:
 SCALE:
 SHEET NO:

SUPERSEDES ISSUE 0
 ISSUE 1/1/81

REG NO: VM015-16

DIMENSIONS ARE IN MILLIMETRES

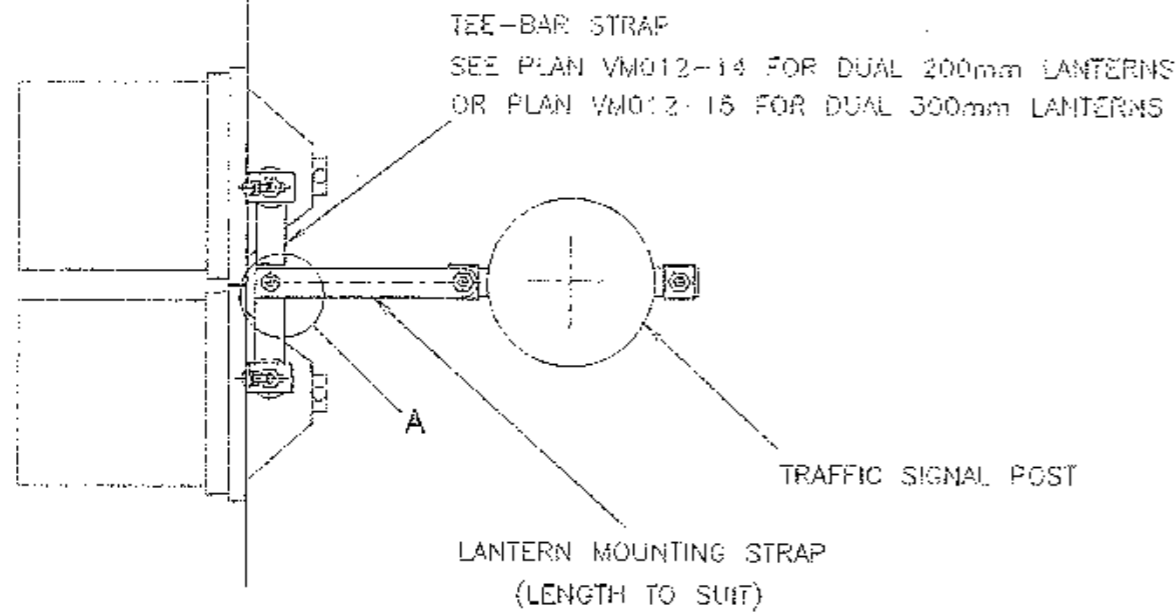


NOTE

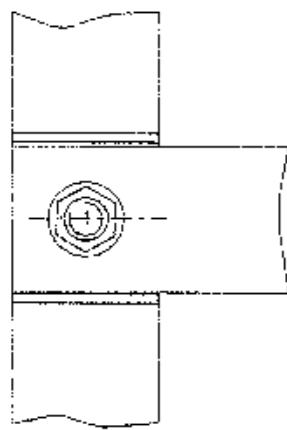
REFER DRG VM015-16 FOR
METHOD OF ATTACHING
EQUIPMENT TO WOODEN POLES.

ALL DIMENSIONS IN MILLIMETRES

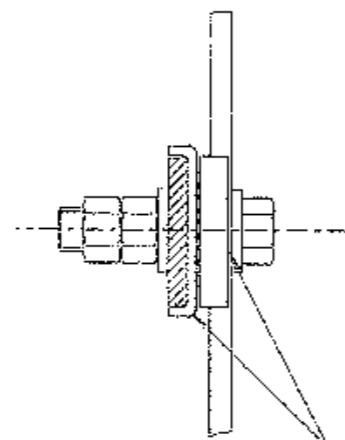
D ISSUE 31-1-95 J/I TC2571. PLAN REDRAWN. DIMENSIONS WERE IN METRES. CD <i>rvc</i> / <i>13/81</i>	ROADS AND TRAFFIC AUTHORITY OF NSW TRAFFIC SIGNALS		SCALE		APPROVED: 21-05-84 F R HULSCHER MNGR STANDARDS & QUALITY		
	GENERAL ARRANGEMENT OF TRAFFIC SIGNALS ON WOODEN POLES			SUPERSEDES: ISSUE C DRAWN A ROBSON CHECKED RB 16-02-83 PASSED BNT 18-05-84		REFERENCE DRAWINGS ASSEMBLY OF LANTERN & TERMINAL BOXES ON WOODEN POLES VM015-16 ISSUE D	
				VM015-18			



TOP VIEW
1 : 10



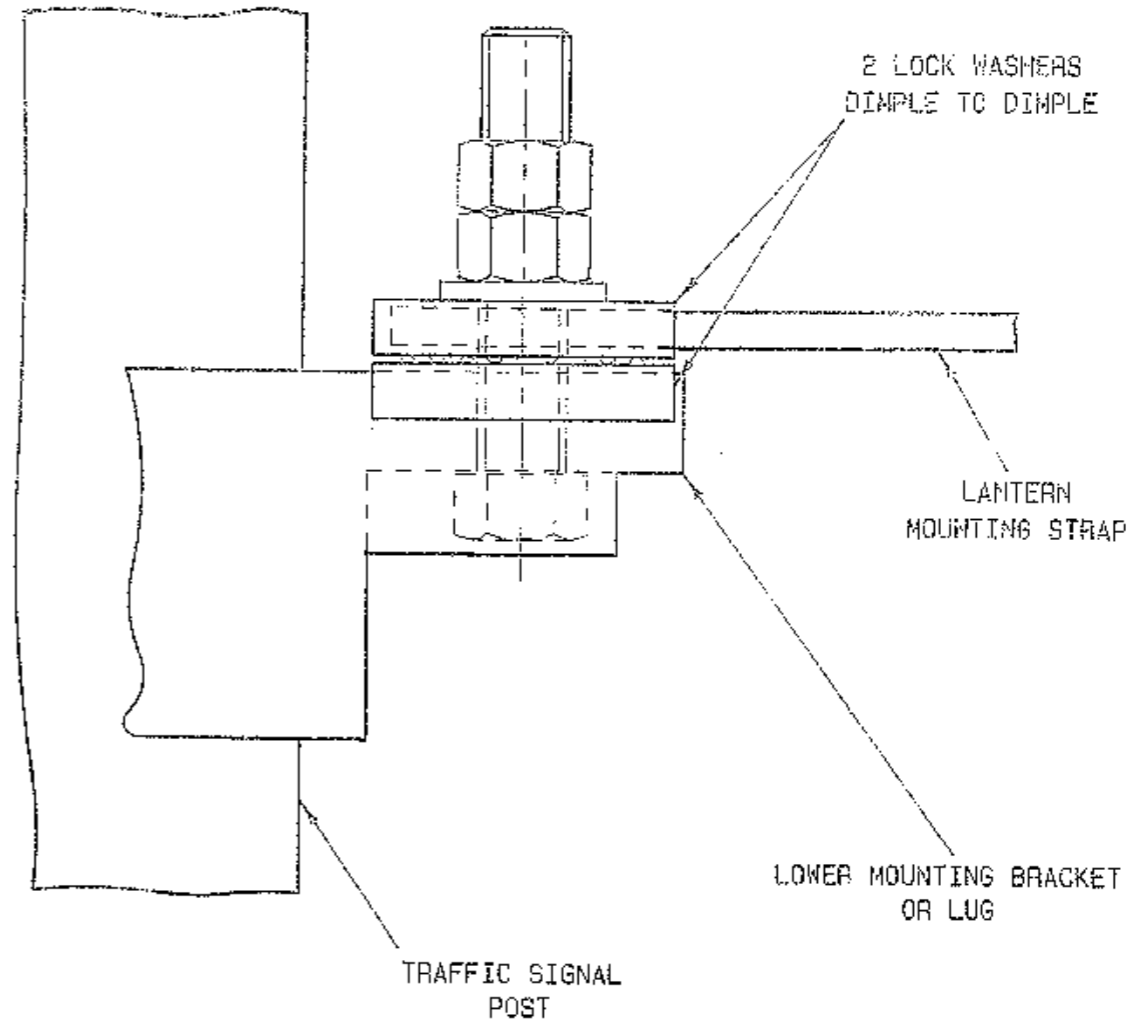
VIEW A
1 : 2
(DETAIL ASSEMBLY)



1 STANDARD AND
1 SPECIAL LOCK WASHER
DIMPLE TO DIMPLE

A ORIGINAL ISSUE B ISSUE 30-04-99 JI 702964 REF 10 T-BAR & SPECIAL LOCK WASH. ADDED. RVC	REFERENCE DRAWINGS	
	LOCK WASHERS STD	VM200-24
	LOCK WASHERS SPEC	VM200-28
	LANTERN STRAPS	VM012-7
	TEE-BAR FOR 200mm	VM012-14
	TEE-BAR FOR 300mm	VM012-15

ROADS AND TRAFFIC AUTHORITY OF NSW TRAFFIC SIGNALS	SCALE AS SHOWN	APPROVED: 02-10-96 B TAYLOR MANAGER EQUIPMENT & STDS
ASSEMBLY DETAILS FOR DUAL LANTERNS USING LOCK WASHERS	SUPERSEDES:	ISSUE <input checked="" type="checkbox"/> A <input type="checkbox"/> B
	DRAWN RVC 01-10-96	
	CHECKED BT 02-10-96	
	PASSED SWT 02-10-96	VM200-27

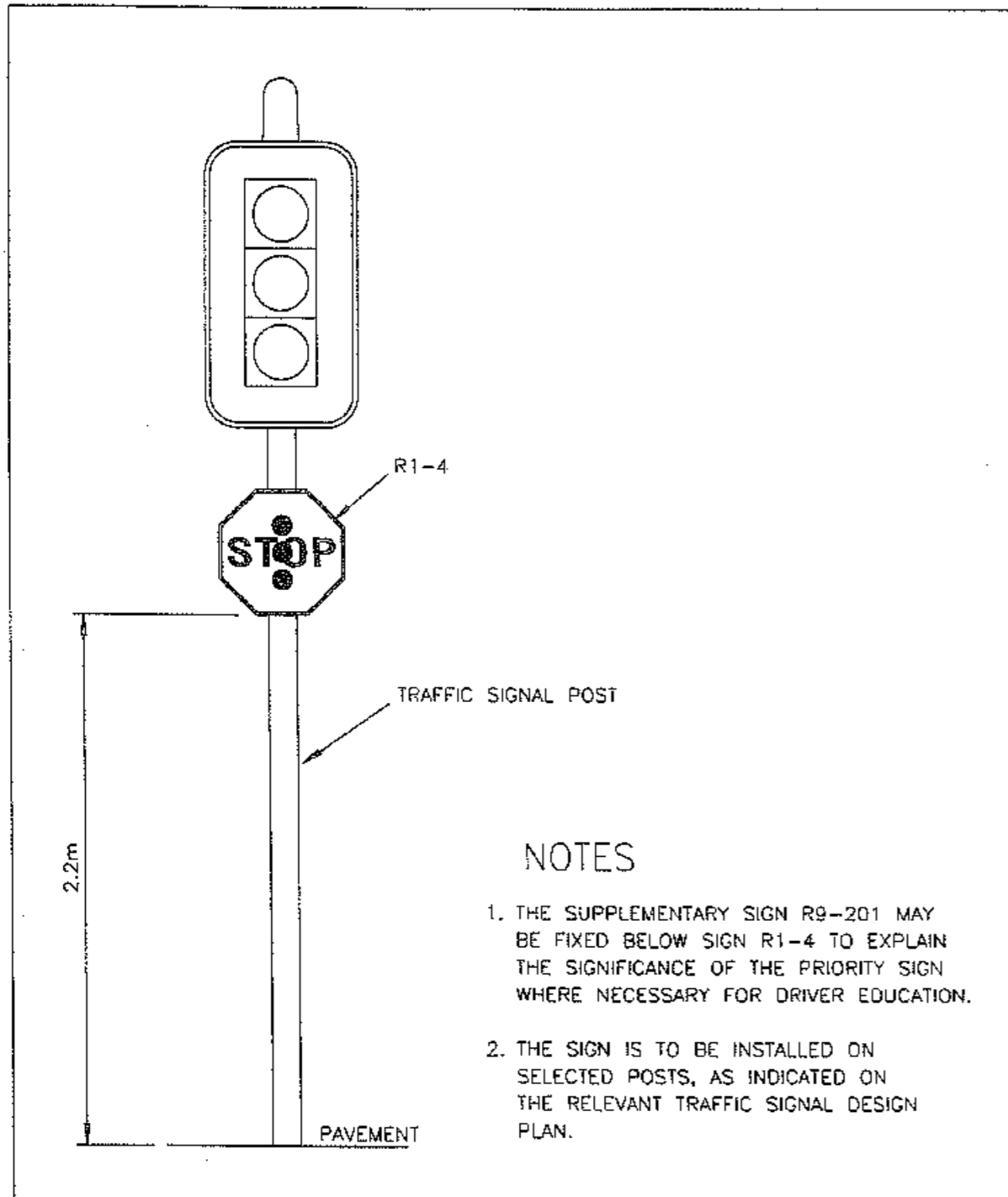


AIMING ADJUSTMENT FOR LANTERN MOUNTING STRAPS

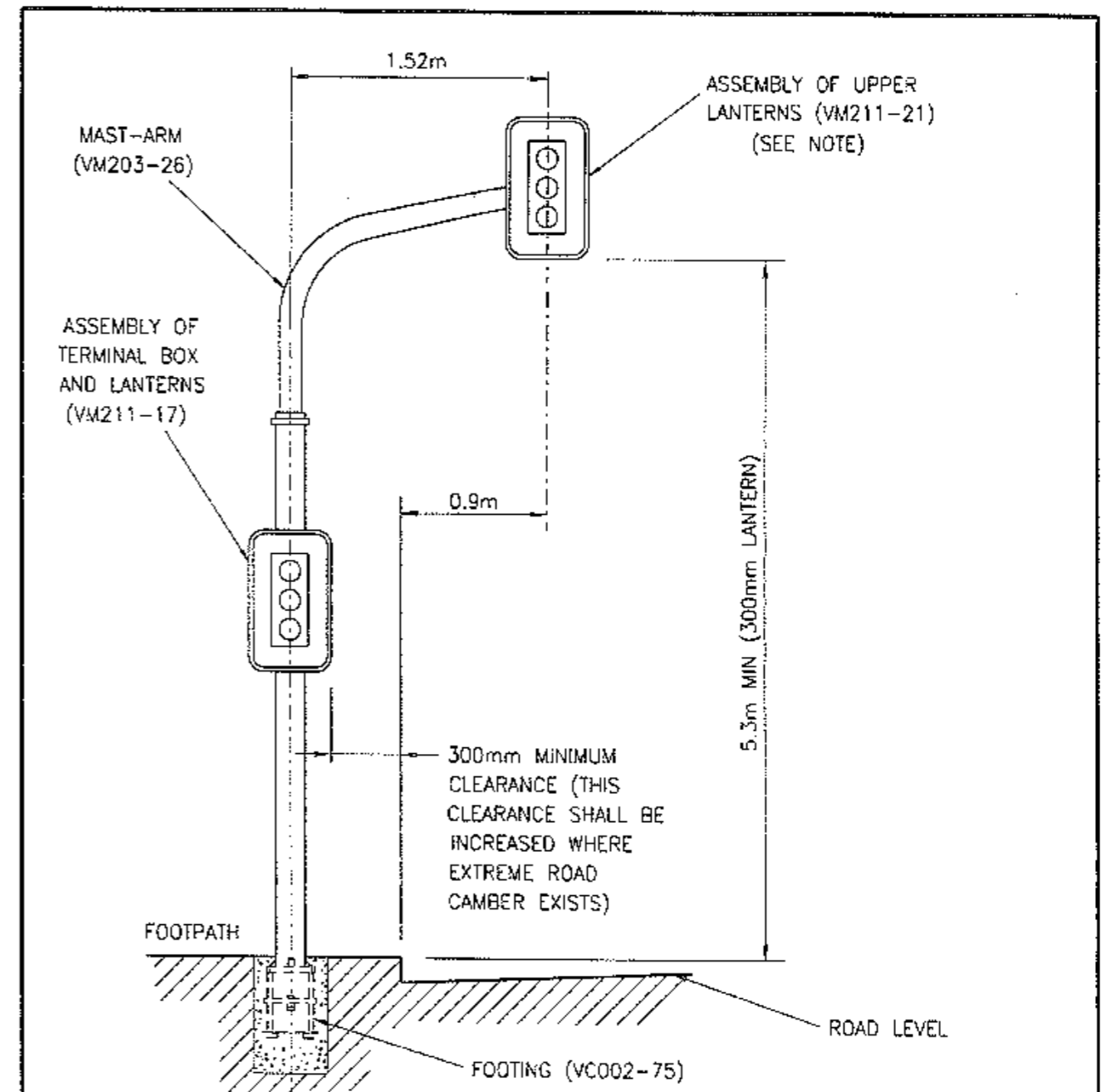
THE TOP LOCK WASHER CAN BE ROTATED IN STEPS OF 28° (DIMPLE TO DIMPLE). THIS ANGLE CAN BE HALVED TO 14° BY ROTATING EITHER LOCKWASHER 180°. THE NORMAL MANUFACTURING CLEARANCES WILL PROVIDE AN ADJUSTMENT OF 5° EITHER WAY BEFORE THE NUTS ARE TIGHTENED.

A ORIGINAL ISSUE	REFERENCE DRAWINGS	
	LOCK WASHER	VM200-24

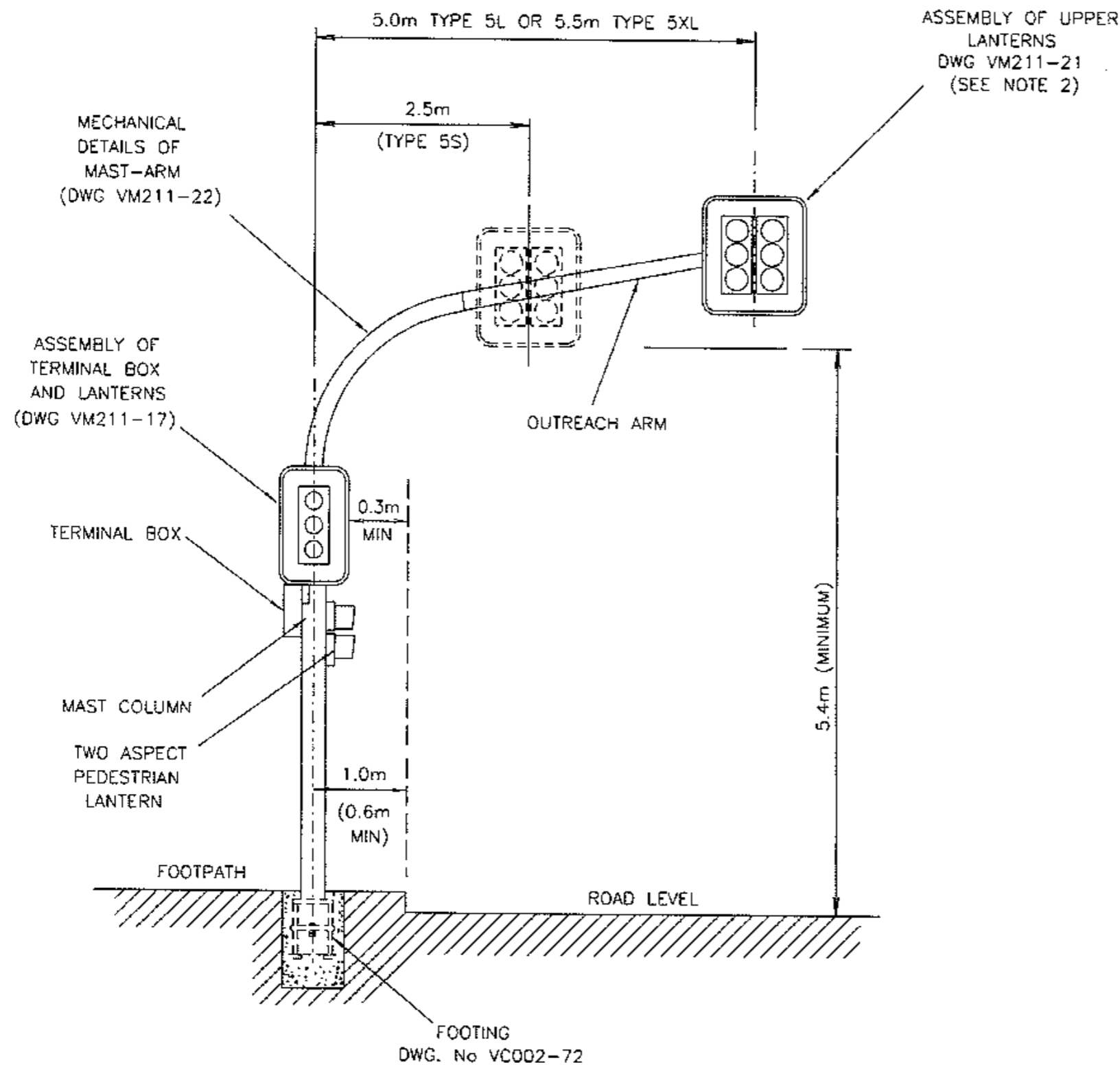
ROADS AND TRAFFIC AUTHORITY OF NSW TRAFFIC SIGNALS	SCALE 1 : 1	APPROVED: 16-10-96 B TAYLOR MANAGER EQUIPMENT & STDS
ASSEMBLY DETAIL OF LOCK WASHERS	SUPERSEDES:	ISSUE A <input type="checkbox"/> B <input type="checkbox"/> C <input type="checkbox"/> D <input type="checkbox"/> E <input type="checkbox"/> F <input type="checkbox"/> G <input type="checkbox"/> H <input type="checkbox"/> I <input type="checkbox"/> J <input type="checkbox"/> K <input type="checkbox"/> L <input type="checkbox"/> M <input type="checkbox"/> N <input type="checkbox"/> O <input type="checkbox"/> P <input type="checkbox"/> Q <input type="checkbox"/> R <input type="checkbox"/> S <input type="checkbox"/> T <input type="checkbox"/> U <input type="checkbox"/> V <input type="checkbox"/> W <input type="checkbox"/> X <input type="checkbox"/> Y <input type="checkbox"/> Z
	DRAWN RVC 03-10-96	
	CHECKED BT 02-10-96	
	PASSED B. Taylor 15.10.96	VM200-28



D ISSUE 18-10-93 JI TC2432 PLAN REDRAWN YB E ISSUE 7-6-2011 STOP SIGN WAS R1-202 SUPPLEMENTARY SIGN WAS R9-211. A.K. B.W.T.	CATALOGUE NO		REFERENCE DRAWINGS	
	R1-4	35036903	STOP SIGN	R1-4
	R9-201	35036938	LEGEND SIGN	R9-201
ROADS AND TRAFFIC AUTHORITY OF NSW TRAFFIC SIGNALS		SCALE	APPROVED: 1-7-1987 FR HULSCHER MANAGER STDS & QUALITY	
INSTALLATION DETAILS OF TRAFFIC SIGNAL PRIORITY SIGN		SUPERSEDES: ISSUE C		ISSUE
		DRAWN	DIXON 24.6.87	
		CHECKED	RB 1-7-87	
		PASSED	1-7-87 B TAYLOR	VM202-12



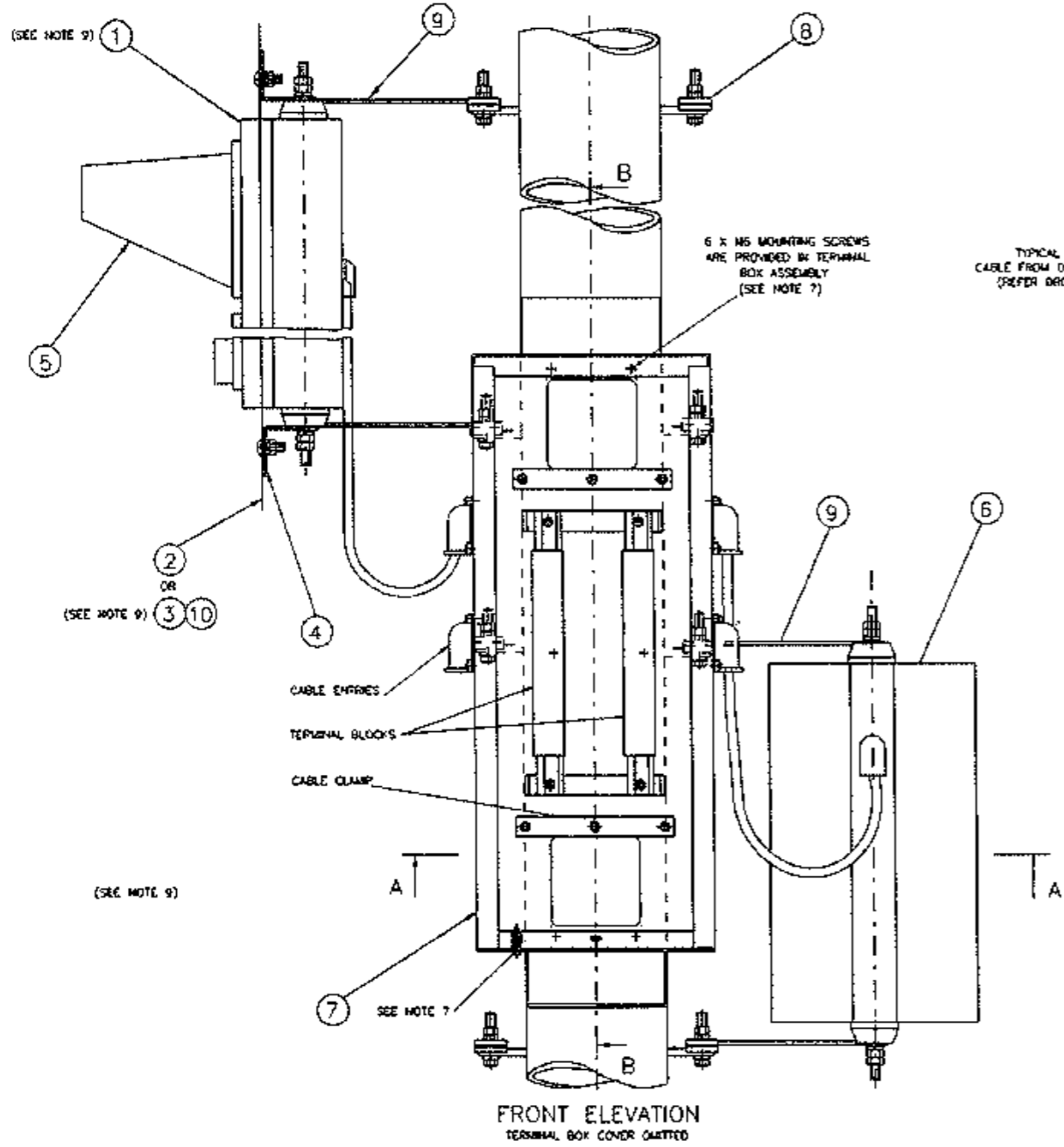
G ISSUE 09-12-15 J/ TC2676 PLAN REDRAWN ON CADD. REF DROS UPDATED. EB/H B.W.T.	CATALOGUE NO		REFERENCE DRAWINGS	
	MAST-ARM	VM203-26	UPPER LANTERN ASS'Y	VM211-21
	LOWER LANTERN & TERMINAL BOX ASS'Y	VM211-17	FOOTING	VC002-75
ROADS AND MARITIME SERVICES TRAFFIC SIGNALS		SCALE	APPROVED: 15-01-1987 F R HULSCHER MANAGER EQUIPMENT & STDS	
GENERAL ARRANGEMENT OF TYPE 4 MAST-ARM		SUPERSEDES: ISSUE F		ISSUE
		DRAWN	BR	
		CHECKED	AD 22-04-86	
		PASSED	RB	VM203-13



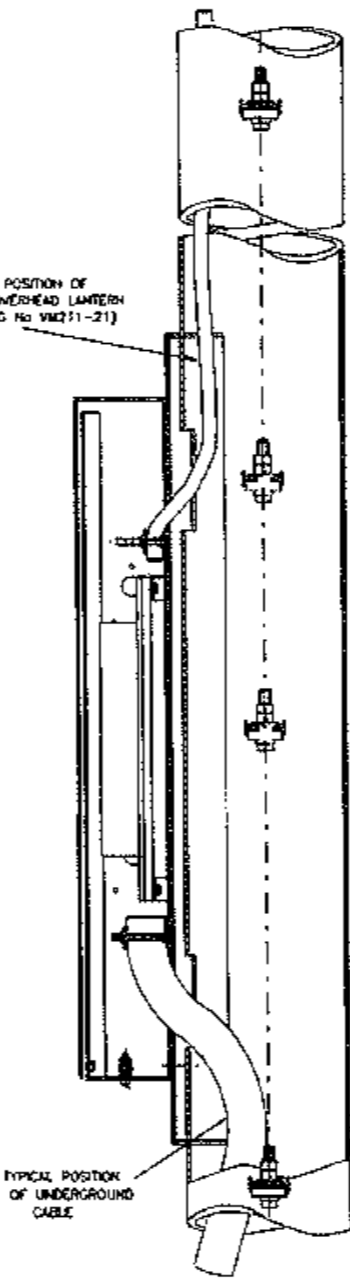
NOTES

1. THE TERM "MAST ARM" REFERS TO THE ENTIRE STRUCTURE COMPRISING AN OUTREACH ARM ATTACHED TO A COLUMN.
2. FOR LOADING AND DEFLECTION LIMITS FOR TYPE 5 MAST-ARM REFER TO SHEET 2 OF THIS DRAWING.
3. THE TYPE 5 XL MA SHALL BE ONLY USED FOR REGION 'A' IN AS 1170.2. THE TYPE 5 XL DOES NOT HAVE ADEQUATE STRENGTH FOR USE IN OTHER REGIONS. SEE AS 1170.2 FOR THE BOUNDARIES OF DIFFERENT REGIONS.

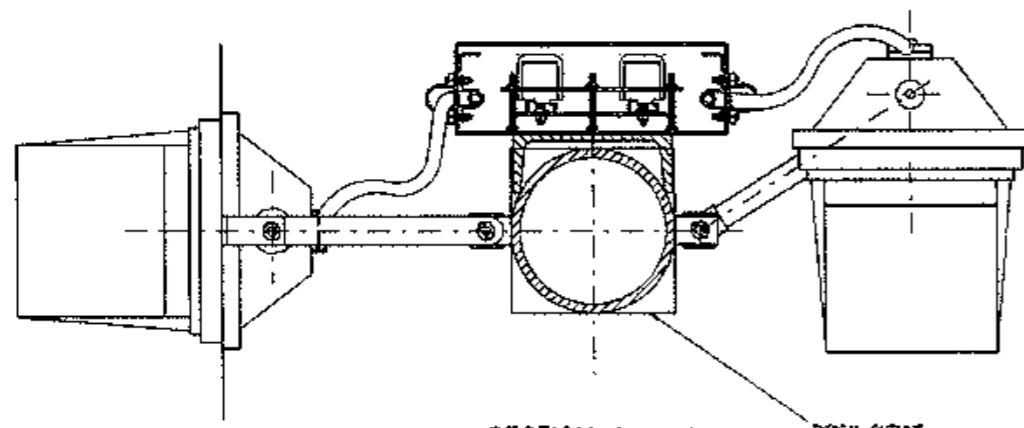
G ISSUE 09-09-99 J/I TC2562 PLAN REDRAWN. NOTE 3 ADDED. RVC BWT H ISSUE 28-03-13 REFERENCE TO UPPER LANTERN SUPPORT WAS VM211-25. LC. BWT. I ISSUE 22-03-16 REF. TO FOOTING WAS VC002-52. IH BWT	REFERENCE DRAWINGS				ROADS AND MARITIME SERVICES TRAFFIC SIGNALS GENERAL ARRANGEMENT OF MAST ARM TYPE 5	SCALE		APPROVED: 21-05-84 F R HULSCHER MANAGER EQUIPMENT & STDS	
	ASS'Y OF LOW LAN & TERMINAL BOX	VM211-17	MA 5 OUTREACH 5S	VM211-24		SUPERSEDES: ISSUE F			ISSUE <input checked="" type="checkbox"/> <input type="checkbox"/> <input type="checkbox"/> <input type="checkbox"/> <input type="checkbox"/> <input type="checkbox"/>
	POWER LINE CLEAR	VM211-20	ASSEMBLY DETAILS	VM211-26		DRAWN	AD		
	UPP LANT ASS'BL	VM211-21	MA 5 OUTREACH XL	VM211-28		CHECKED	RB 20-7-83		
	MA 5 COLUMN	VM211-22	RAG BOLT ASS'BL	VC002-38		PASSED	BWT 18-5-84		
MA 5 OUTREACH 5L	VM211-23	MAST ARM FOOTING	VC002-72			VM211-6 SHEET 1 OF 2			



FRONT ELEVATION
TERMINAL BOX COVER OMITTED

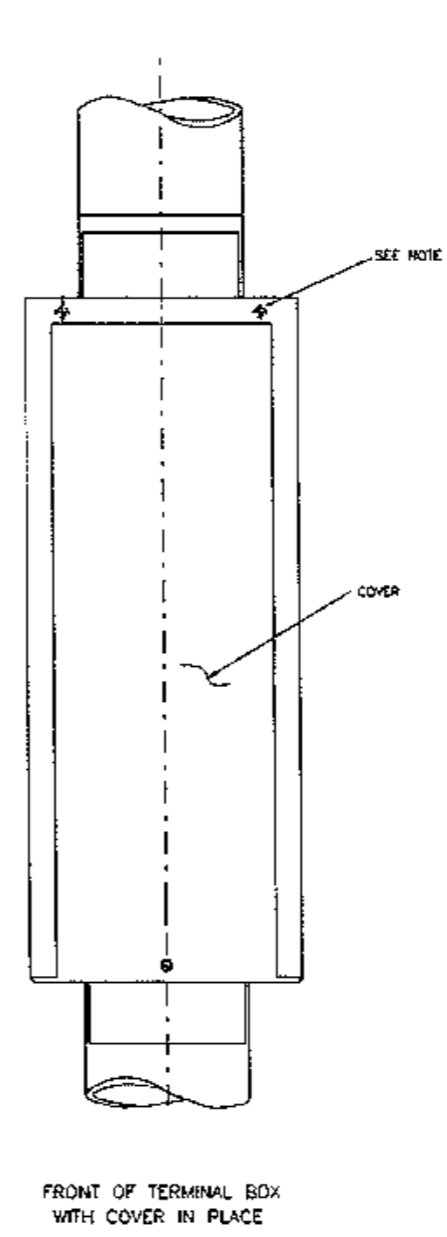


SECTION B - B
LANTERNS OMITTED



SECTION A - A

TYPICAL OUTLINE OF POST TYPE 6 OR MAST ARM



FRONT OF TERMINAL BOX
WITH COVER IN PLACE

NOTES

1. BEFORE MOUNTING TERMINAL BOX ON MAST, OR POST, COVER THE REAR OF THE BOX & SURFACE ON THE MAST WITH A SILICONE SEALANT TO GIVE A WEATHERPROOF SEAL.
2. SCREWS IN BOX COVER TO BE FITTED AFTER COVER HAS BEEN INSERTED INTO THE GUIDE RAILS IN THE BOX.
3. THE STANDARD MOUNTING STRAPS SHOWN ARE PART OF THE LANTERN ASSEMBLY ONLY, BUT IF STRAPS ARE TO BE SELECTED TO SUIT INDIVIDUAL SITE REQUIREMENTS, SELECT FROM PLAN VM12-7.
4. LANTERNS ARE TO BE ADJUSTED TO BE VERTICAL WHEN VIEWED FROM THE FRONT, THIS IS THE FINAL ADJUSTMENT MADE AFTER ALL LANTERNS, TARGET BOARDS AND AUXILIARY EQUIPMENT HAVE BEEN MOUNTED ON THE MAST.
5. AFTER ALL SIGNAL LANTERNS HAVE BEEN AIMED, THEY ARE TO BE SECURELY LOCKED IN POSITION BY INDEPENDENT MECHANICAL MEANS.
6. QUANTITIES STATED IN THE MATERIAL LIST ARE ONLY FOR ONE 3 ASPECT OR ONE 3+3 ASPECT LANTERN, IF ADDITIONAL LANTERNS ARE REQUIRED, THE QUANTITIES ARE TO BE INCREASED ACCORDINGLY.
7. THE INSTALLER SHALL ENSURE ELECTRICAL CONTINUITY BETWEEN THE TERMINAL BOX AND THE MAST ARM OR POST FOR EARTHING PURPOSES.
8. FOR AIMING ADJUSTMENT AND ASSEMBLY DETAILS OF THE LOCK WASHERS THAT COME INSTALLED ON ALL LUGS, REFER TO DRAWING VM200-28.
9. IF DUAL LANTERNS ARE INSTALLED, THE TEE BAR ASSEMBLY ARE TO BE USED USING LOCK WASHERS AS SHOWN IN DRAWING VM200-27.

GENERAL MATERIAL

ITEM	DESCRIPTION	DRAWING NO	RTA SUPPLY CAT NO
10	TEE-BAR STRAP FOR DUAL 200mm LANTERNS	VM12-14	18230543
9	MOUNTING STRAPS	VM12-7	
8	LOCK WASHERS	VM200-24	18233542
7	TERMINAL BOX ASSEMBLY	VM211-22	18230823
6	PEDESTRIAN LANTERN (AS PER AS 2144)		70015250
5	OPEN VISOR Ø200	VM208-31	70023814
4	TARGET BOARD MOUNTING BRACKET	VM205-15	70010150
3	TARGET BOARD 3+3 ASPECT Ø200	VM205-14	70010712
2	TARGET BOARD 3 ASPECT Ø200	VM205-14	70010690
1	3 ASPECT Ø200 LANTERN (AS PER AS 2144)		70015151

DIMENSIONS ARE IN MILLIMETRES

15/05/06 21-5-09
 J/A 102574 PLAN
 REDRAWN, NOTES B
 AND 9 ADDED.
 DOC

REFERENCE DRAWINGS	DATE	BY	CHECKED	DATE
LANTERN STRAPS	VM12-7			
T BAA ASSEMBLY	VM211-14			
TERMINAL BOX ASSEMBLY	VM211-22			
LOCK WASHER	VM200-24			
LOCK WASHER ASSEMBLY	VM200-28			
1/2" ROUND M6x1.5 BOLT	VM205-15			
TARGET BOARDS	VM205-14			

ROADS AND TRAFFIC AUTHORITY NSW
TRAFFIC SIGNALS

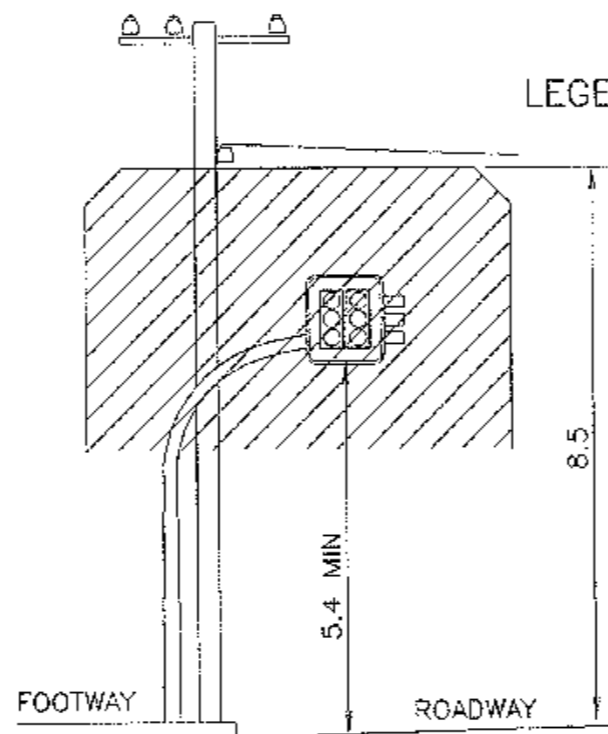
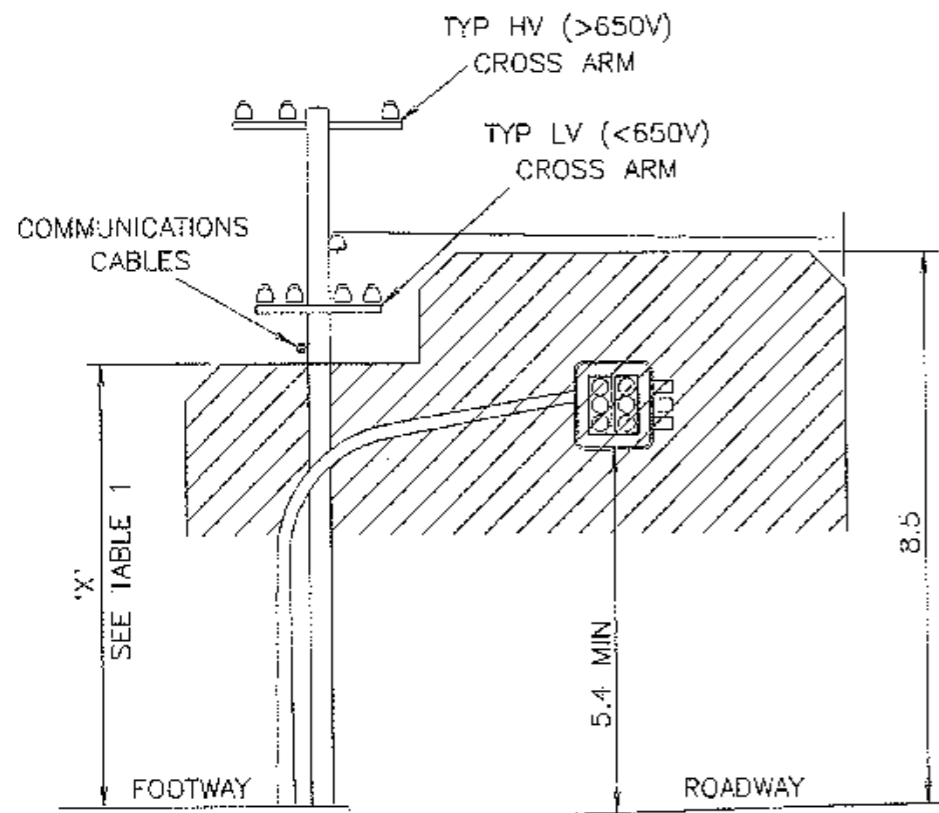
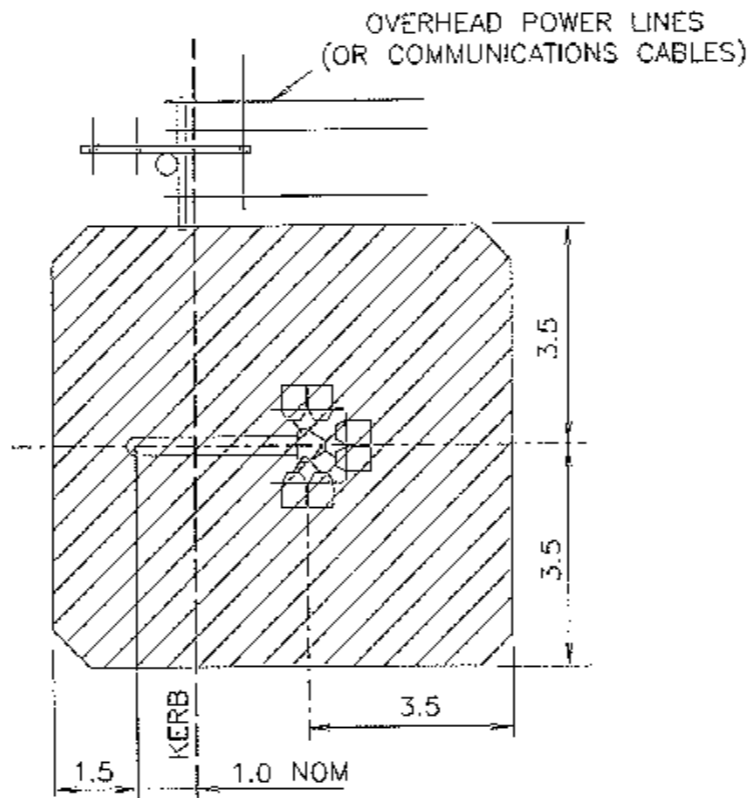
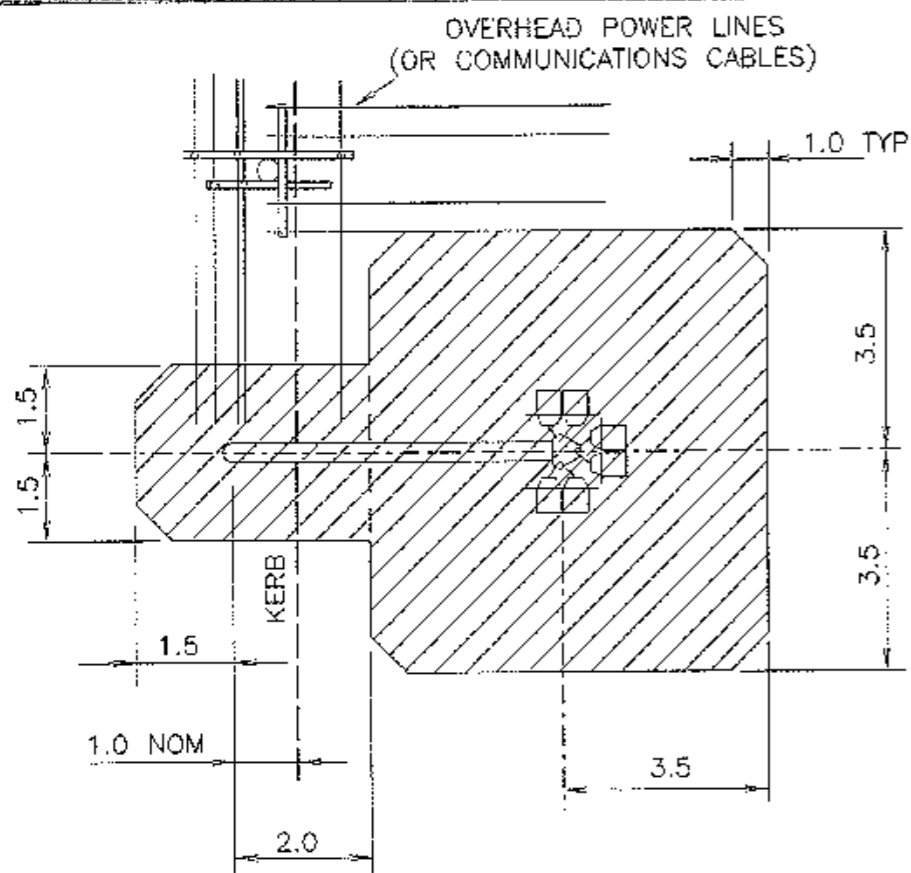
LOWER ASSEMBLY DETAILS OF
TERMINAL BOX AND LANTERNS SUITABLE
FOR MAST ARMS & TYPE 6 POST

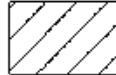
SHEET SIZE	FILE NO	SCALE	SHEET NO
A1			

SUPERSEDES ISSUE D ISSUE E

REC NO

VM211-17



LEGEND  AREA FREE OF OVERHEAD POWER LINES

NOTES

- SAFE WORKING CLEARANCES FOR THE SERVICING OF SIGNAL LANTERNS HAVE BEEN PROVIDED FOR IN THE HATCHED AREAS FOR VOLTAGES UP TO 33,000 VOLTS. FOR VOLTAGES EXCEEDING 33,000 VOLTS REFER TO THE ELECTRICITY SUPPLY AUTHORITY CONCERNED.
- WHEN CONSIDERING A SIGN NEAR O/H POWER LINES OR COMMUNICATIONS CABLES, THE MINIMUM (STRUCTURAL) CLEARANCE AS SHOWN IN TABLE 2 SHALL BE SATISFIED. THE OVERALL HEIGHT (ABOVE PAVEMENT) & LENGTH OF THE DIRECTIONAL SIGN(S) TO BE ATTACHED TO THE POST MUST BE KNOWN FOR EACH APPLICATION.
- HIGH VOLTAGE (>650 VOLTS) LINES ARE GENERALLY POSITIONED ABOVE LOW VOLTAGE (<650 VOLTS) LINES IF THEY ARE SUPPORTED ON THE SAME POLES. IF THEY ARE SEPARATED, CONSULT THE RELEVANT ELECTRICITY SUPPLY AUTHORITY IF THERE IS ANY DOUBT IF THE LINE IS OF HIGH OR LOW VOLTAGE.
- THE RELEVANT ELECTRICITY SUPPLY AUTHORITY SHOULD BE CONSULTED WHENEVER THERE IS ANY DOUBT AS TO WHETHER SAFETY CLEARANCES COULD BE ADEQUATELY MAINTAINED.
- THIS PLAN SHOWS THE MINIMUM CLEARANCES AS REQUIRED BY THE DEPARTMENT OF ENERGY BUT DOES NOT TAKE INTO CONSIDERATION THE SAFE WORKING DISTANCE FOR MOBILE CRANES & ELEVATED WORK PLATFORMS AS LAID DOWN IN THE CONSTRUCTION & SAFETY REGULATIONS 1950.

TABLE 1

PHASE TO PHASE VOLTAGE OF POWER LINES	DIMENSION 'X'
VOLTAGE NOT EXCEEDING 650 VOLTS	7.0m
VOLTAGE NOT EXCEEDING 33,000 VOLTS	8.0m
VOLTAGE EXCEEDING 33,000 VOLTS	REFER TO ELECTRICITY AUTHORITY CONCERNED
COMMUNICATIONS CABLES	7.0m

TABLE 2

MINIMUM CLEARANCE BETWEEN SIGNS AND O/H POWER LINES OR COMMUNICATIONS CABLES	
PHASE TO PHASE VOLTAGE OF POWER LINES	MIN CLEARANCE (IN ANY DIRECTION)
VOLTAGE NOT EXCEEDING 650 VOLTS	1.0m
VOLTAGE NOT EXCEEDING 33,000 VOLTS	2.0m
VOLTAGE EXCEEDING 33,000 VOLTS	REFER TO ELECTRICITY AUTHORITY CONCERNED
COMMUNICATIONS CABLES	1.0m

FOR OUTREACHES 5.0m AND LONGER

FOR OUTREACHES UNDER 5.0m LONG

DIMENSIONS ARE IN MILLIMETRES

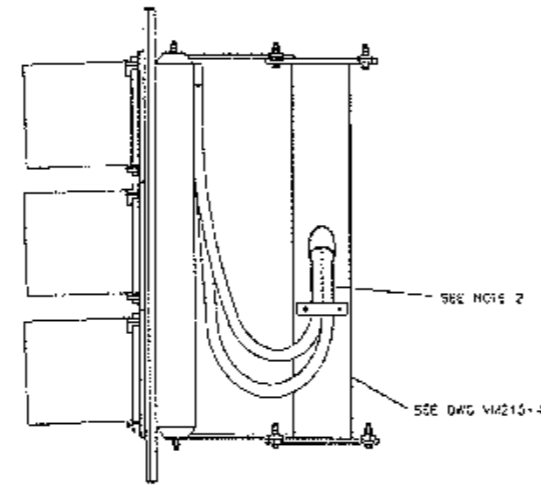
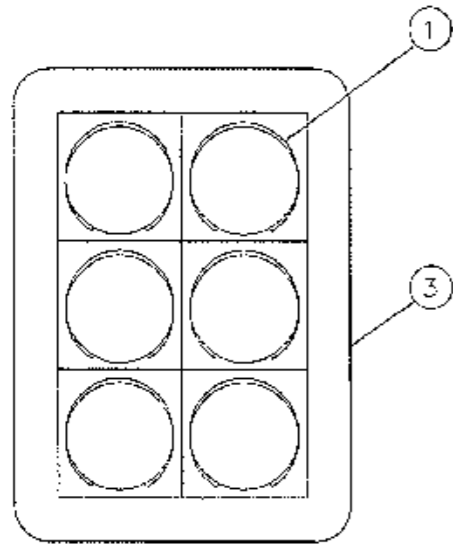
D' ISSUE 27-10-97
J/ TC2564 PLAN
REDRAWN
RVC
BWT
E ISSUE 27-10-97
J/ TC3045 REF TO
TYPE 55 AND 5L MA
CHANGED TO
OUTREACH LENGTHS
ABOVE OR UNDER
5.0m. DIM 'X' WAS
6.7m FOR < 650V.
COMMUNICATIONS
CABLE ADDED TO
TITLE, DIAGRAMS &
TABLES.
RVC
23/11/97

REFERENCE DRAWINGS	
TYPE 5 MAST ARM GENERAL ARRANGE	VM211-6
TYPE 6 POST GENERAL ARRANGE	VM212-2
TYPE 9 MAST ARM	VM215-1

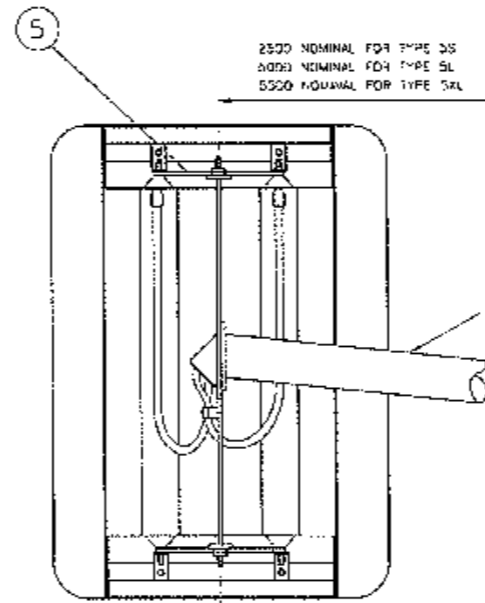
ROADS AND TRAFFIC AUTHORITY OF NSW TRAFFIC SIGNALS	
MINIMUM CLEARANCES FROM OVERHEAD POWER LINES & COMMUNICATIONS CABLES FOR TRAFFIC SIGNALS & SIGNS	

SCALE	
SUPERSIDES: ISSUE C	
DRAWN AD 23-07-87	
CHECKED BWT 12-04-88	
PASSED BWT 12-04-88	

APPROVED: 12-04-88	
F HULSCHER MANAGER STDS & QUALITY	
ISSUE	<input checked="" type="checkbox"/> E
VM211-20	

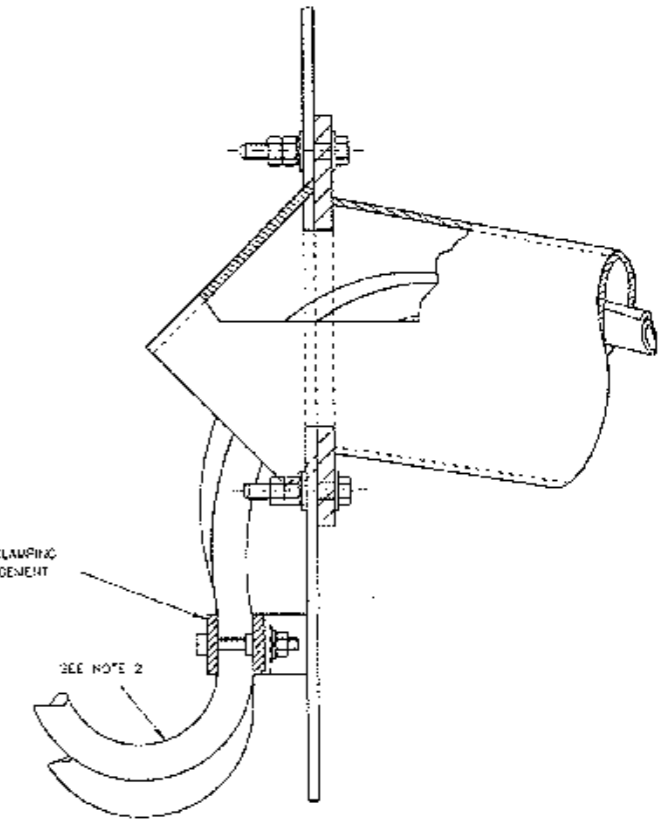


DETAILS FOR
MAST ARM TYPE 5S, 5L & 5XL
WITH 3+3 ASPECT



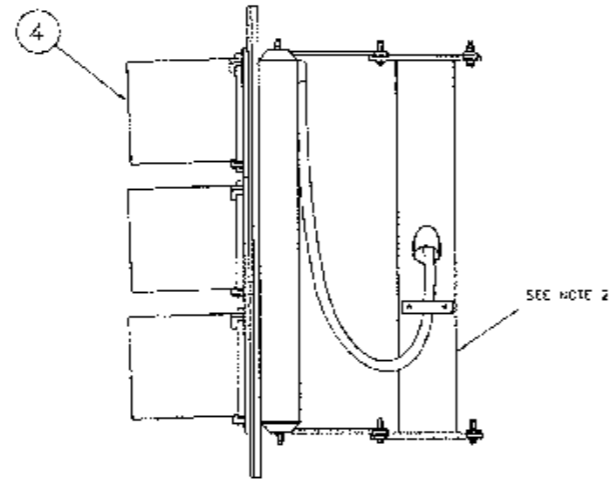
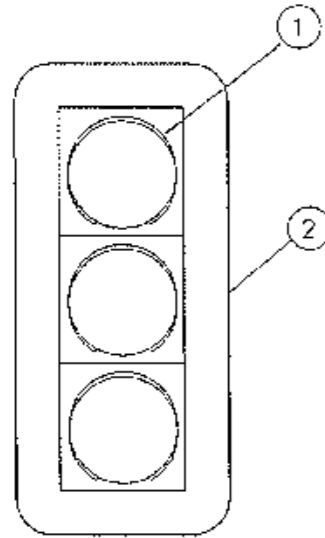
SEE DWG VM211-24 FOR TYPE 5S,
DWG VM211-23 FOR TYPE 5L
& DWG VM211-28 FOR TYPE 5XL

MAST ARM TYPE 5 VERTICAL COLUMN



DETAIL A
INCREASED SCALE

MAST ARM TYPE 5 VERTICAL COLUMN



DETAILS FOR
MAST ARM TYPE 5S, 5L & 5XL
WITH 3 ASPECT

NOTES

- AFTER ALL SIGNAL LANTERNS HAVE BEEN AWED, THEY ARE TO BE SECURELY LOCKED IN POSITION BY INDEPENDENT MECHANICAL MEANS.
- LANTERN LEADS MAY NEED TO BE REWIRED WITH DOUBLE INSULATED FOR CONNECTION TO THE TERMINAL BOX. ANY CABLE EXPOSED TO THE WEATHER TO BE ENCLOSED IN BLACK FLEXIBLE CONDUIT.
- STANDARD MOUNTING STRAPS AS SHOWN ARE PART OF THE LANTERN ASSEMBLY ONLY, BUT IF STRAPS ARE TO BE SELECTED TO SUIT INDIVIDUAL SITE REQUIREMENTS, SELECT FROM DWG VM212-7.
- LANTERNS ARE TO BE ADJUSTED TO BE VERTICAL WHEN VIEWED FROM THE FRONT. THIS IS THE FINAL ADJUSTMENT MADE AFTER ALL LANTERNS, TARGET BOARDS AND AUXILIARY EQUIPMENT HAVE BEEN MOUNTED ON THE MAST ARM.
- QUANTITIES STATED IN THE MATERIAL LIST ARE ONLY FOR ONE 3 ASPECT OR ONE 3+3 ASPECT LANTERN. IF ADDITIONAL LANTERNS ARE REQUIRED, THE QUANTITIES ARE TO BE INCREASED ACCORDINGLY.
- FOR FINING ADJUSTMENT AND ASSEMBLY DETAILS OF THE LOCK WASHERS (INSTALLED ON ALL LUGS) SEE DRAWING VM200-28.
- ALL SIGNAL LANTERNS ARE TO BE INSTALLED WITH THE TEST-BAR ASSEMBLY USING LOCK WASHERS AS SHOWN IN DWG VM200-27.

GENERAL MATERIAL LIST

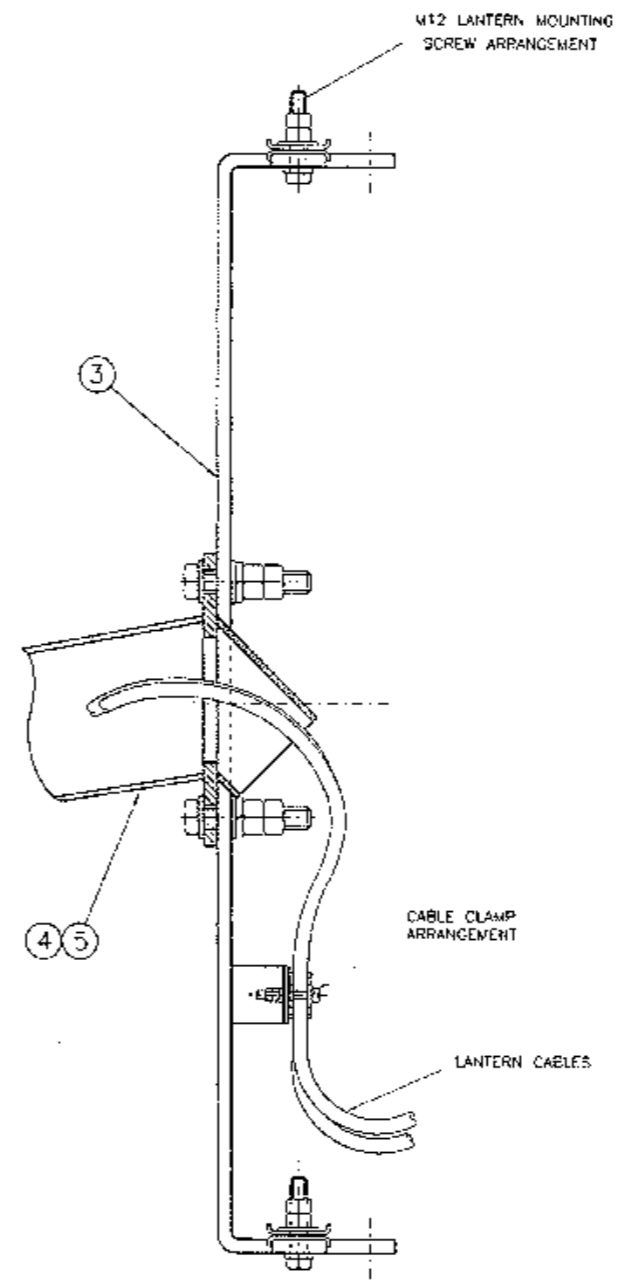
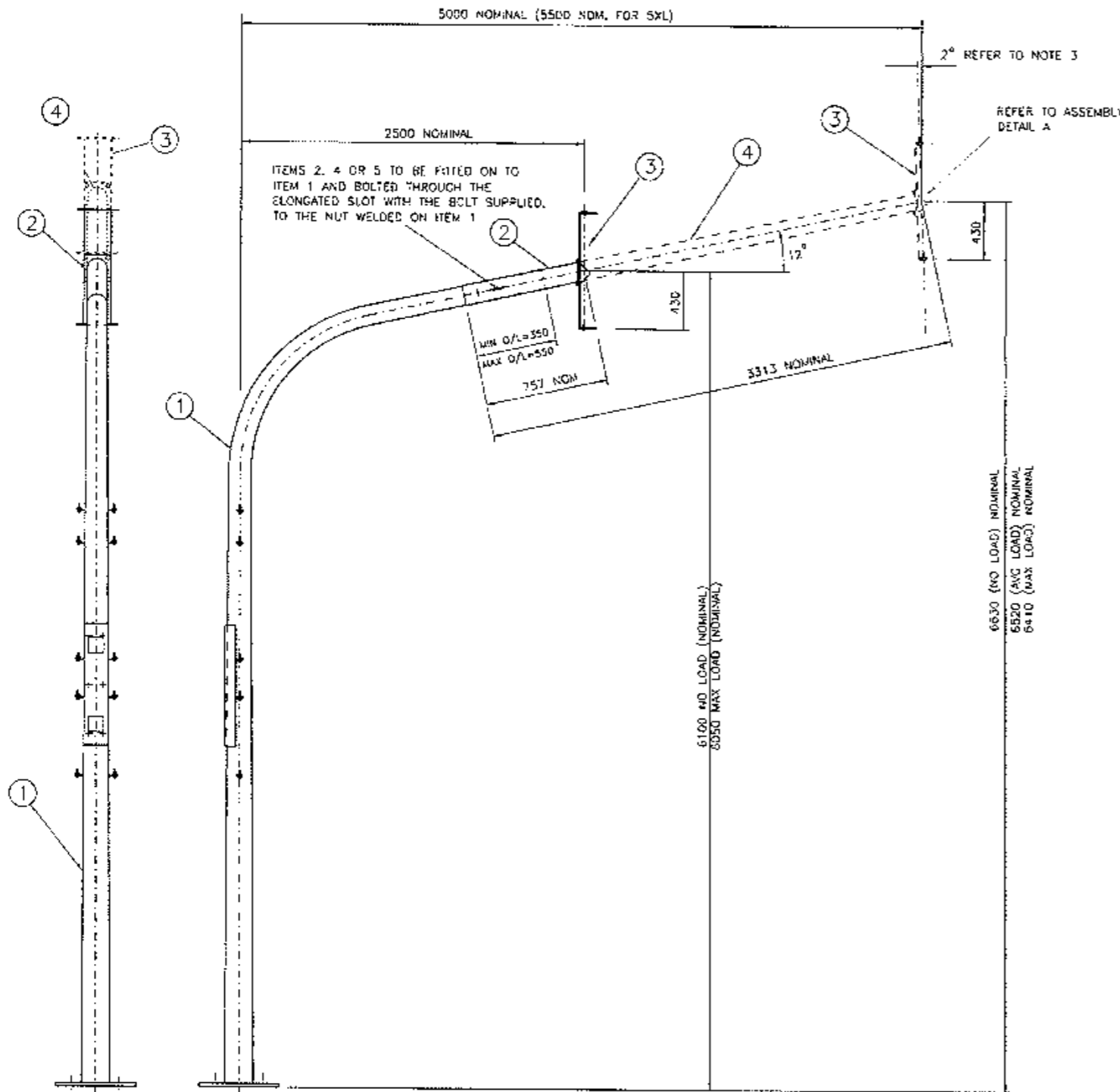
ITEM	DESCRIPTION	DRG NO	CAT NO	QTY PER LANTERN SET
5	TEC-BAR FOR 200mm LANTERNS	VM012-14	19250543	2
4	OPEN VISOR TYPE 'A'	VM208-29	7002389	3
3	TARGET BOARD 3+3 ASPECT 200mm DIAMETER	VM206-12	70015712	1
2	TARGET BOARD 3 ASPECT 200mm DIAMETER	VM206-14	70010890	1
1	3 ASPECT 200mm DIAMETER LANTERN			1

A ORIGINAL ISSUE
R ISSUE 24-10-89
JL TC2516 PLAN
RE-DRAWN PLAN
CHANGED TO
INCLUDE ILL-BAR
& LOCK WASHERS,
MATERIAL LIST
ATTACHED.
RVC
BWT
C ISSUE 02-02-00
JH TC3000 TYPE
5XL DETAILS ADDED
TO PLAN & TITLE
MADE GENERAL.
RVC
D ISSUE 30-05-06
FLANGE HOOD WAS
CLAW.
JH
E ISSUE 1-10-11
REFERENCE TO
UPPER LANTERN
SUPPORT WAS
VM211-25. PLAN
REVISED TO SUIT
200mm LANTERNS.
J.C.
BWT.

REFERENCE DRAWINGS				DRAWN	DATE
OUTREACH 5XL MA	VM211-28	LOCK WASH ASSEMBLY	VM200-27	CHIFFOCCI RVC	14-07-89
MAX HEIGHT ASSEMBLY	VM211-26	T BAR ASSEMBLY	VM200-27		
UPPER LANT 5XL MA	VM211-28	LOCK WASHER	VM200-27	PAULSON B. TAYLOR	8-12-89
OUTREACH 5S MA	VM211-24	TEC-BAR	VM012-14	APPROVED	
OUTREACH 5L MA	VM211-25	LANTERN STRAPS	VM012-7		
LOWER LANT ASSEMBLY	VM211-17			F. HILTSCHER	
1/2 BOARDS 200mm	VM206-14			CAT	11-12-1989

ROADS AND TRAFFIC AUTHORITY NSW
TRAFFIC SIGNALS
ASSEMBLY DETAILS OF UPPER
LANTERNS TO TYPE 5 MAST ARMS

SHEET SIZE	FILE NO	SCALE	SHEET NO
A1		NTS	-
SUPERSEDES ISSUE A		ISSUE 1/1/89	
REG NO		VM211-21	



NOTES

1. THIS DRAWING SHOULD BE READ IN CONJUNCTION WITH SPECIFICATION MA/1.
2. TAPER LOCK JOINT BETWEEN LOWER AND UPPER MAST ARM PARTS TO BE UNIVERSAL TO ENSURE INTERCHANGEABILITY OF UPPER MAST ARM PARTS 5S, 5L AND 5XL WITHIN THE STATED TOLERANCE. FOR SPECIAL SURFACE TREATMENT OF THE TAPER LOCK JOINT, REFER TO DETAIL DRAWINGS VM211-22, VM211-23, VM211-24 AND VM211-28.
3. THE LANTERN SUPPORT FOR THE TYPE 5L MAST ARM IS IN THE UNLOADED POSITION. THE RESPECTIVE INCLINATION OF 2° TO THE AVERAGE VERTICAL IS TO COMPENSATE FOR DEFLECTION UNDER AVERAGE LOADINGS.

THIS ASSEMBLY DETAIL IS FOR TYPE 5L AND 5XL MAST ARMS ONLY
FOR ATTACHMENT TO TYPE 5S MAST ARMS, REFER TO NOTE 4

DETAIL A
ASSEMBLY SECTION OF ITEM 3
FITTED TO ITEMS 4 OR 5

NOT TO SCALE

ITEM	DESCRIPTION	DRG NO	SUPPLY CAT NO	QTY
5	UPPER PART MA TYPE 5XL	VM211-28	18235551	1
4	UPPER PART MA TYPE 5L	VM211-23	18235550	1
3	UPPER LANTERN SUPPORT	VM215-6	18230439	1
2	UPPER PART MA TYPE 5S	VM211-24	18235549	1
1	MAST AND LOWER PART ARM	VM211-22	18235622	1

MAST ARM TYPE 5S
MAST ARM TYPE 5L
MAST ARM TYPE 5XL

DIMENSIONS IN MILLIMETRES

17-04-88
JI 10235A
REWORK
LOCKING
WASHERS ADDED.
BWF
TO ISSUE 01-08-08
FLANGE HOOD WAS
ELIMINATED. AMENDED NOTES
2 AND 4.
ADDED ITEM 5.
BWF
17-04-88
REWORK
LOCKING
WASHERS ADDED.
BWF
TO ISSUE 28-01-11
REFERENCE TO UPPER
LANTERN SUPPORT WAS
MADE TO SUIT. BWF
LC

REFERENCE DRAWINGS		DRG NO	DATE
MA AND LOWER ARM	VM211-22 MA TYPE 5XL	VM211-22	15-09-82
MA TYPE 5L	VM211-23		
MA TYPE 5S	VM211-24		
LANE & SUPP ASSY	VM215-6		
UPPER LANT ASSY	VM211-21		
LOWER LANT ASSY	VM211-17		
FOOTING	VM201-22		
LOCK WASHER	VM202-24		

ROADS AND MARITIME SERVICES
TRAFFIC SIGNALS
ASSEMBLY DETAILS OF THE
TYPE 5XL, 5L AND 5S MAST ARM
(MECHANICAL)

SHEET SIZE	FILE NO	SCALE	SHEET NO
A1		1 : 20 OR AS SHOWN	
SUPERSEDES ISSUE B		ISSUE 2/01	
REG NO		VM211-26	

SIGN POST EXTENSION
& CLAMP ASSEMBLY
SEE NOTE 2

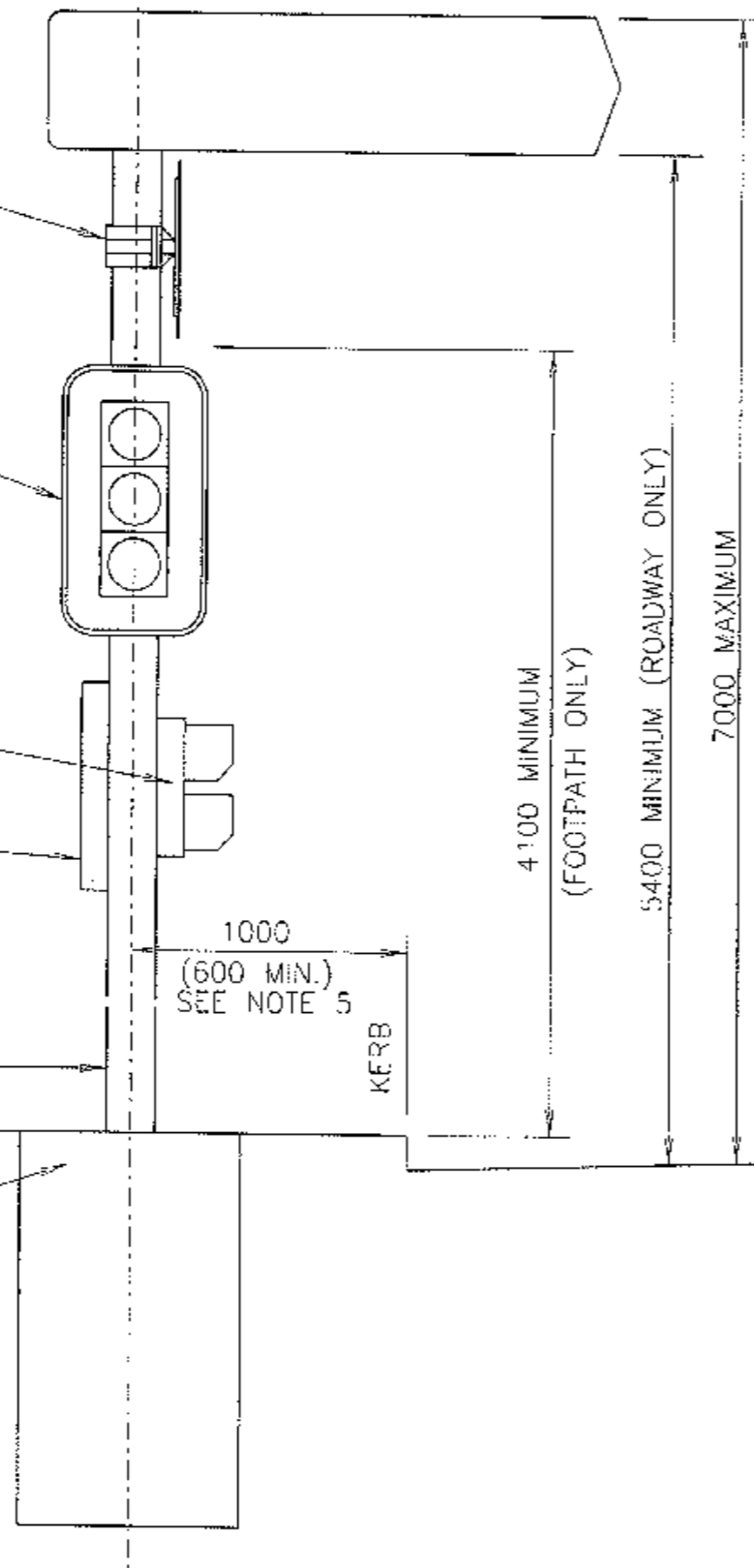
TRAFFIC SIGNAL LANTERNS

PEDESTRIAN LANTERNS

TERMINAL BOX
REFER DRG VMD15-22

MECHANICAL DETAILS OF POST
TYPE 6 REFER DRG VM212-1

FOOTING
REFER DRG VCC02-72

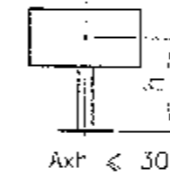


NOTES:

1. THE INSTALLATION OF THE TYPE 6 POST IS TO BE SUPERVISED BY THE SUPERINTENDENT'S REPRESENTATIVE.
2. THE SIGNAL INSTALLER IS NOT RESPONSIBLE FOR THE SUPPLY AND INSTALLATION OF THE SIGN POST EXTENSION AND SIGNS.
3. IF ILLUMINATION OF SIGNS IS REQUIRED, THE SUPPLY LEADS SHALL BE TERMINATED IN THE TYPE 6 POST TERMINAL BOX, AND BE CONTROLLED BY A TIME SWITCH LOCATED IN THE TRAFFIC SIGNAL CONTROLLER HOUSING.
4. SIGN LIMITATIONS: WHERE TRAFFIC SIGNAL LANTERNS AND SIGNS ARE REQUIRED ON A COMMON STRUCTURE, THE TYPE 6 POST MAY BE SUITABLE, PROVIDED ALL THE FOLLOWING LIMITATION PARAMETERS ARE SATISFIED.

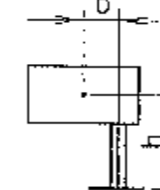
where: A,A1 = sign area (sq metres)
h,h1 = height to centre of sign (metres)
b,b1 = offset to centre of sign (metres)

CENTRAL



$$Ax \leq 30$$

CANTILEVER

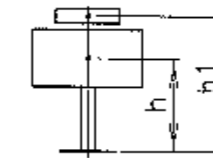


$$Ax \leq 30$$

$$Ax \leq 6$$

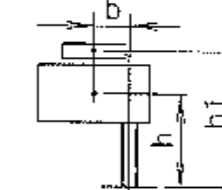
$$A(h+b) \leq 33$$

DUPLEX



$$A1xh1 + Axh \leq 30$$

DUPLEX CANTILEVER

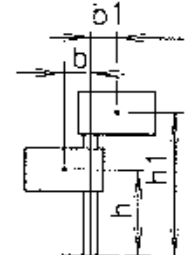


$$A1xh1 + Axh \leq 30$$

$$b(A+A1) \leq 6$$

$$A1(h1+b) + A(h+b) \leq 33$$

DUPLEX DOUBLE
CANTILEVER



$$A1xh1 + Axh \leq 30$$

$$A1xb1 \leq 6$$

$$Axb \leq 6$$

$$A1(h-b1) + A(h-b) \leq 33$$

$$A1(h1+b1) + A(h-b) \leq 33$$

THE WIND LOADING EFFECT OF THE TRAFFIC SIGNAL LANTERNS, HAS BEEN CONSIDERED IN THE DERIVATION OF THE ABOVE PARAMETERS.

5. DISTANCE FROM EDGE OF KERB MAY BE INCREASED IN VULNERABLE POSITIONS. (REFER TRAFFIC SIGNAL DESIGN LAYOUT PLAN).
6. FOR DETAILS OF STANDARD CLEARANCES FROM O/H POWER LINES REFER TO DWG VM 211-20.

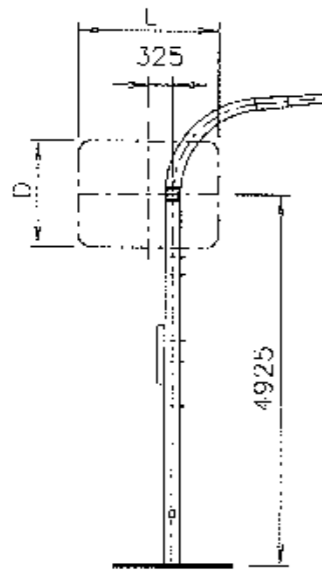
A ORIGINAL ISSUE
H ISSUE 11-02-92
JH TC 2040
PLAN REDRAWN
FORMULA FOR DUPLEX
DOUBLED CHANGED.
IN NOTE 1 SPEC WAS
SI/TCS/B.
Y.B.
RVC
H ISSUE 23-03-2016
REF. TO FOOTING WAS
VCC02-52.
IH BWT

REFERENCE DRAWINGS	
MECH. DET. TYPE 6	VM212-1
FOOTING	VCC02-72
TERMINAL BOX	VM015-22
SIGN POST EXT'N.	QW6144
STAND. CLEARANCES O/H POWER LINES	VM211-20

ROADS AND MARITIME SERVICES
TRAFFIC SIGNALS
GENERAL ARRANGEMENT OF POST
TYPE 6 WITH SIGN
MOUNTING FACILITY

SCALE	
1:25	
SUPERSEDES: ISSUE G	
DRAWN	GC 07-09-85
CHECKED	RB 03-12-85
PASSED	E. TAYLOR 12-12-85

APPROVED: 12-12-85	
F. HULSCHER	
MANAGER STANDARDS & QUALITY	
ISSUE	1
VM212-2	



SIGNAGE PERMITTED ONLY IN REGION A
(SEE NOTE 1)

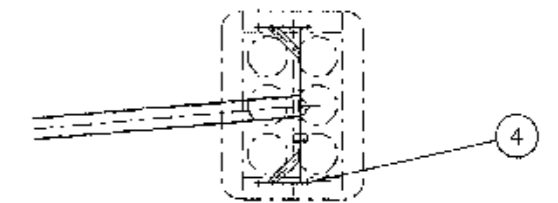
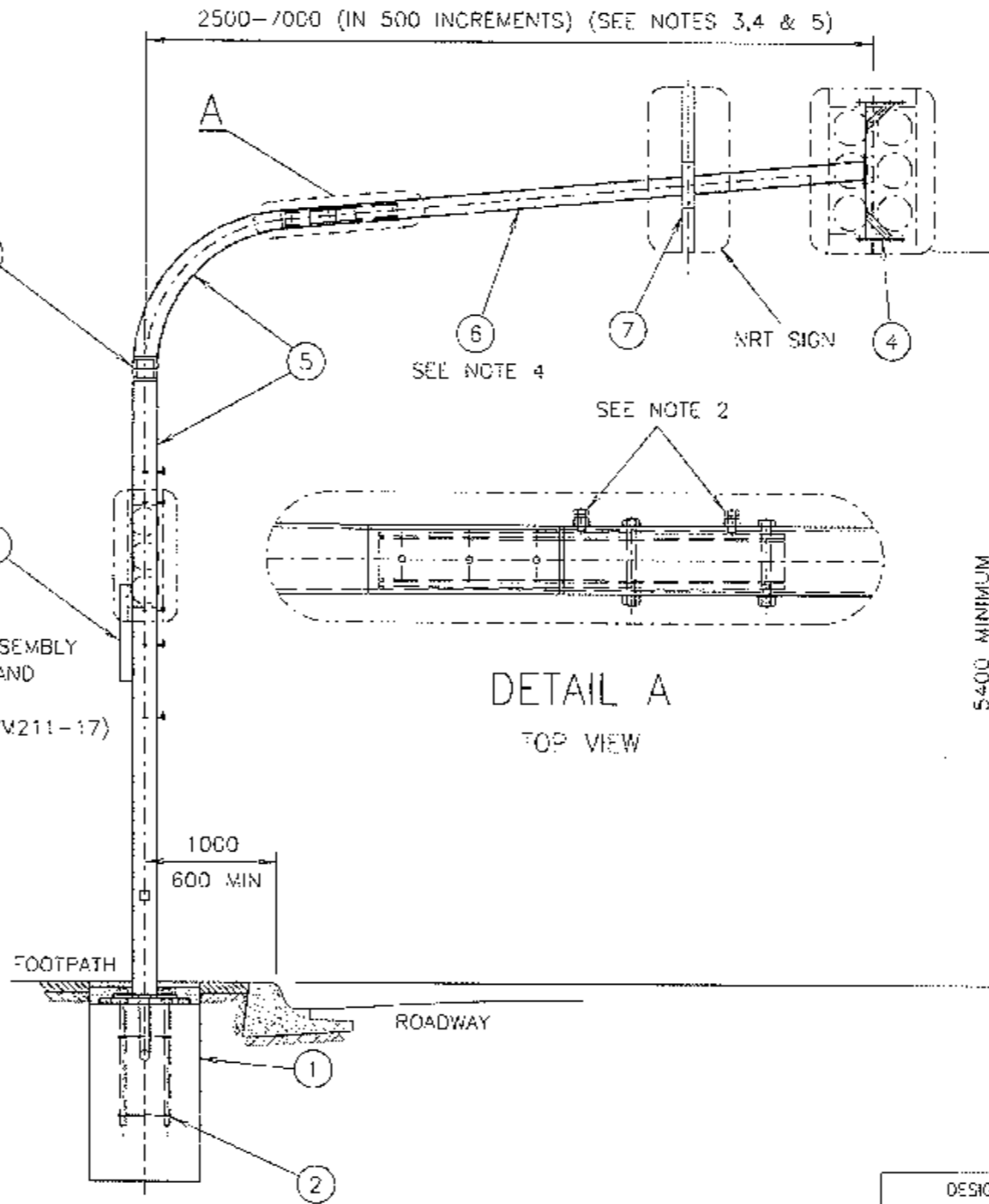
IF INSTALLED IN REGION A, THE SIGNAGE
SIZE SHALL BE AS FOLLOWS:

- MAX. AREA OF SIGN A = 2.6 m²
- MAX. LENGTH OF SIGN L = 2.83 m
- MAX. DEPTH OF SIGN D = 1.4 m

NOTES

1. LOADING RESTRICTIONS APPLY WHEN THE TYPE 9 MAST ARM IS USED IN REGION B, ALTHOUGH THE TYPE 9 MAST ARM IS DESIGNED TO AS 2979-1998 (TRAFFIC SIGNAL MAST ARMS), FOR USE IN BOTH REGIONS A & B AS DEFINED IN AS 1170.2-1989 (LOADING CODE PART 2: WIND LOADS).
IN REGION B, NO SIGNAGE (EXCEPT THE NRT SIGN, ITEM 7) SHALL BE INSTALLED ON THE MAST ARM.
2. WHEN THE OUTREACH ARM IS ATTACHED TO THE COLUMN, THE 2 x M16 SCREWS AND NUTS SHALL BE TIGHTENED AND LOCKED TO PREVENT ARM RATTLE.
3. THE UPPER LANTERN SUPPORT CAN BE MOUNTED IN THE ALTERNATIVE POSITION. THIS, WITH THE CHOICE OF LUGS, WILL PROVIDE A VARIATION OF ±200 mm FROM THE END OF THE ARM TO LOCATE THE LANTERN(S) AS CLOSE AS POSSIBLE TO THE CENTRE OF THE TRAFFIC LANE.
4. THE FINAL SELECTION OF THE OUTREACH ARM (LENGTH) SHALL BE DETERMINED ON SITE, ONCE THE FOOTING EXCAVATION IS MADE AND THE TRAFFIC LANE WIDTHS CHECKED.
5. THERE IS A RANGE OF 10 ARMS (ITEM 6) FROM 1000-5500 mm (IN 500 mm INCREMENTS). WITH THE FIXED 1500 mm SECTION OF THE MAST, THE OUTREACH RANGE WILL BE 2500-7000 mm.

INSTALLATION ASSEMBLY
FOR LANTERNS AND
TERMINAL BOX
(SEE DRG No. VM211-17)



ALTERNATIVE POSITION
OF UPPER SUPPORT
BRACKET (SEE NOTE 3)

OVERALL OUTREACH	ARM LENGTH
7000	5500
6500	5000
6000	4500
5500	4000
5000	3500
4500	3000
4000	2500
3500	2000
3000	1500
2500	1000

ARM SELECTION
SEE NOTES 4 & 5

DIMENSIONS IN MILLIMETRES

ITEM	DESCRIPTION
8	SIGNAGE GENERAL ARRANGEMENT (SEE DRG No. ME10819)
7	LARGE NRT SIGN BRACKET (SEE DRG No. VE10832)
6	OUTREACH ARM (SEE DRG No. VM215-3)
5	MAST COLUMN (SEE DRG No. VM215-2)
4	UPPER LANTERN SUPPORT (SEE DRG No. VM215-4)
3	TERMINAL BOX (SEE DRG No. VM015-22)
2	HOLDING-DOWN BOLT DETAILS (SEE DRG No. VC002-38)
1	FOOTING (SEE DRG No. VC002-72)

DESIGN INFORMATION - MECHANICAL ENGINEERING SECTION	
DESIGN JOB No.	002783
MASS OF STRUCTURE	570-690 kg
MASS OF ANCHOR BOLTS	40 kg
MASS OF REINFORCEMENT	N/A
VOLUME OF CONCRETE	0.97 m ³
ORIGINAL DESIGN BY	MECH ENGINEERING SECTION
52 ROY-SCHILD AVENUE	ROSEBERY NSW 2018
PHONE (02) 9662-5204	
FACSIMILE (02) 9662-5411	
QUALITY SYSTEM	Quality Federation Company ISO 9001 Lic. CEC 2443 Sydney Australia
ORIGINAL REFERENCES	MECHANICAL ENGINEERING SECTION
DESIGN	RTA CHECKED JE
DRAWING	HA CHECKED JE
APPROVED	RK 22-12-1995

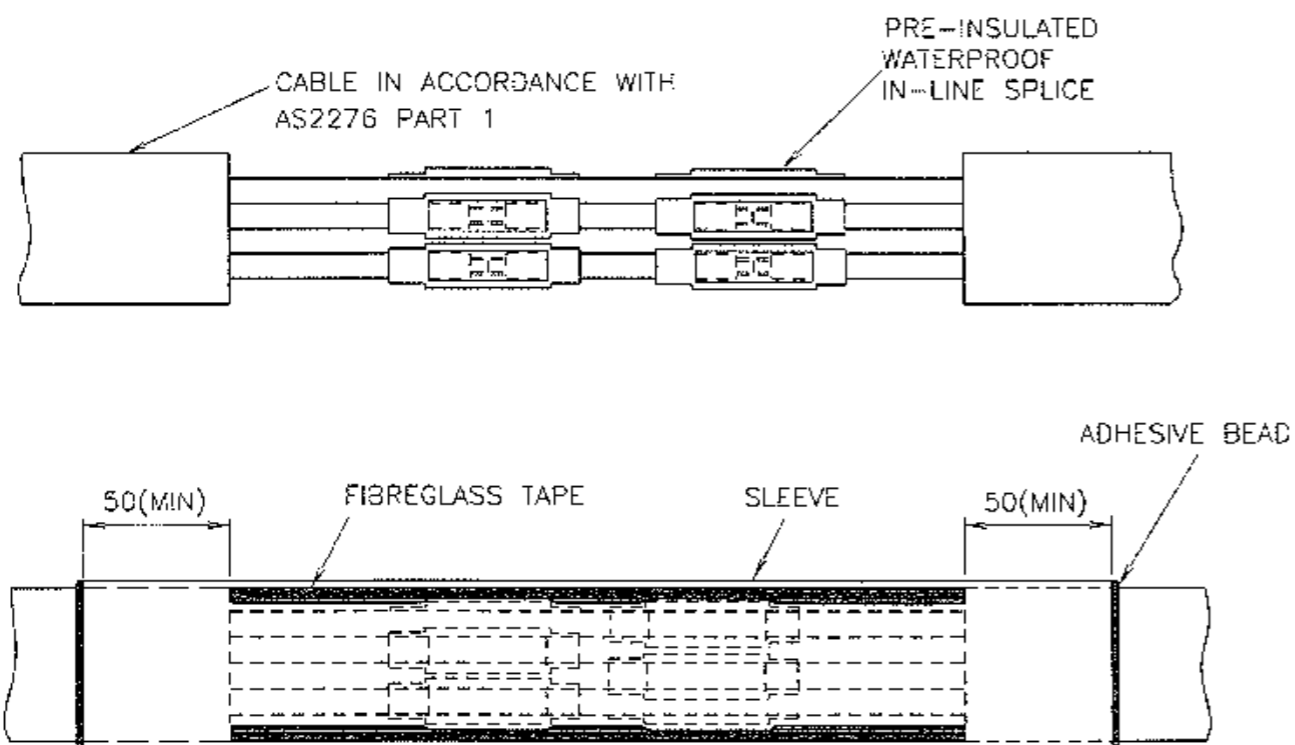
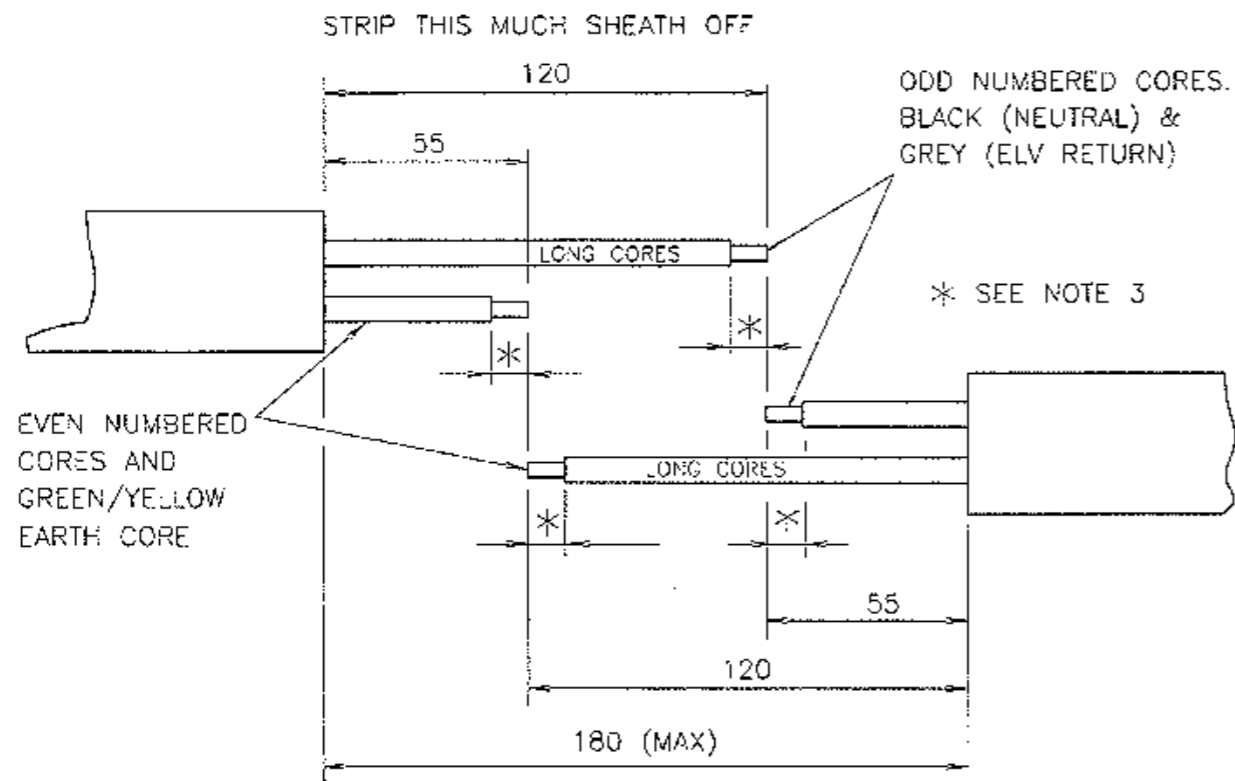
A ORIGINAL ISSUE
B ISSUE 22-03-2016
FOOTING CAVITY
REMOVED. REV. 30
FOOTING WAS VC002-52
BWT

REFERENCE DRAWINGS			
TERM BOX MECH	VM015-22	NRT SIGN BRACKET	ME10832
MAST COLUMN	VM215-2	SIGN ARRANGEMENT	ME10819
OUTREACH ARM	VM215-3	BOLT ASSEMBLY	VC002-38
UPPER SUPPORT	VM215-4	FOOTING	VC002-72
ID PLATE	VM215-5		
TERM BOX ASSBLY	VM211-17		

ROADS AND MARITIME SERVICES TRAFFIC SIGNALS	
GENERAL ARRANGEMENT TYPE 9 MAST ARM	

SCALE	
SUPERSEDES: ME10754 SH 1	
DRAWN	RVC 10-05-99
CHECKED	GWD 30-12-99 MECH ENG SECTION
PASSED	BWT 09-11-99

APPROVED: 11-02-2000 MANAGER T YUNG	
EQUIPMENT & STANDARDS	
ISSUE	1 2 3 4 5 6 7 8 9 10
VM215-1	



NB: A HOT AIR GUN MAY BE USED IF AVAILABLE. THIS ELIMINATES ANY RISK OF OVER-HEATING THE SPLICES, CORE INSULATION OR SLEEVE.

ITEM	QUANTITIES IN KIT FOR	
	19 CORE CABLE TO AS2276.1	29 CORE CABLE TO AS 2276.1
PRE-INSULATED WATERPROOF IN-LINE SPLICE TO SUIT 2.5mm ² CORES (BLUE)	4	4
PRE-INSULATED WATERPROOF IN-LINE SPLICE TO SUIT 1.5mm ² CORES (RED)	20	30
FIBREGGLASS TAPE (2m LONG x 20mm WIDE)	1	1
SOLVENT WIPE	1	1
SLEEVE, MEDIUM WALLED, HEAT SHRINK, HOT MELT GLUE LINED 40/12-330 (330mm LONG) 56/17-330 (330mm LONG)	1	-
ABRASIVE STRIP (300mm LONG x 25mm WIDE)	-	1
TRACEABILITY TAG AND CABLE TIE	1	1
INSTRUCTION SHEET	1	1
PRE-INSULATED WATERPROOF IN-LINE SPLICE TO SUIT 4mm ² CORES (YELLOW)	-	4

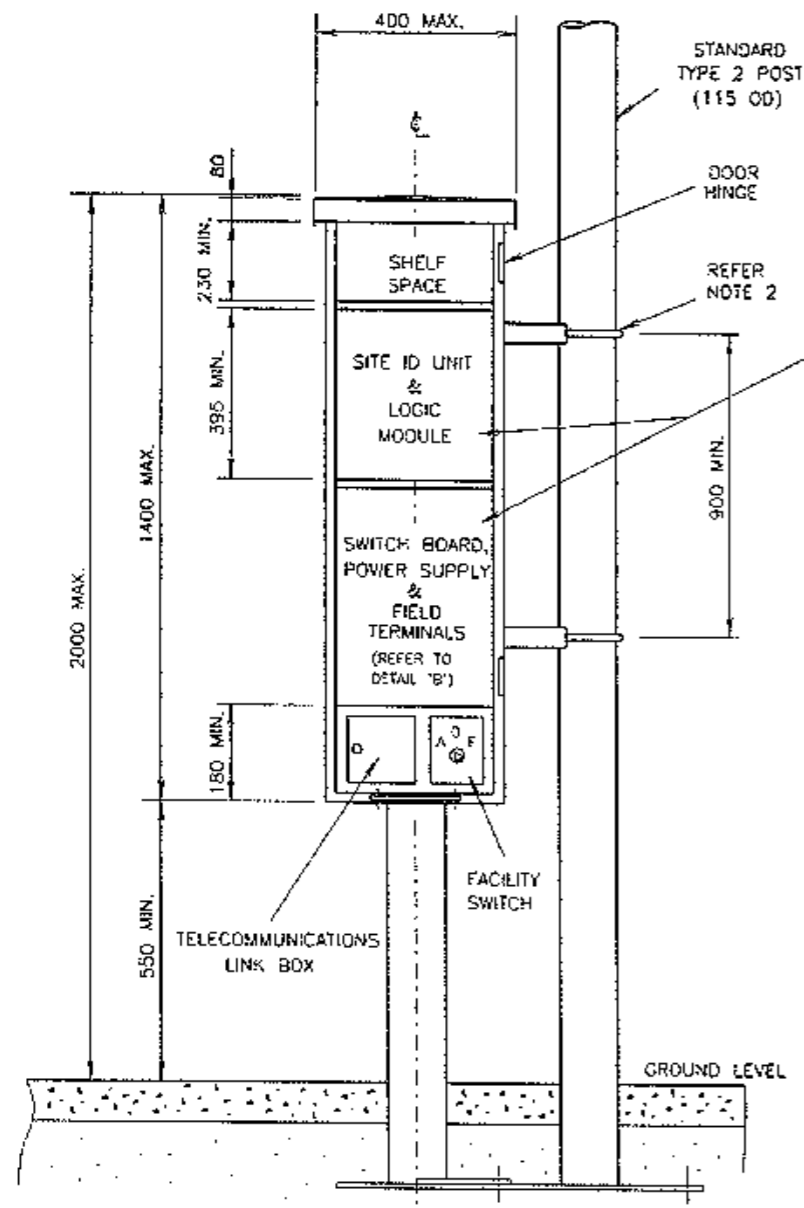
NOTES

- MANUFACTURERS IDENTIFICATION AND DATE OF MANUFACTURE SHALL BE MARKED ON A NON-CORROSIVE TAG CLEARLY, INDELIBLY AND WATER RESISTANT. THE TAG AND CABLE TIE TO BE SUPPLIED WITH EACH KIT.
- EACH KIT TO BE INDIVIDUALLY PACKED INTO A STRONG SEALED CLEAR PLASTIC BAG WITH A LABEL SECURELY ATTACHED INDICATING THE KIT TYPE, RTA ORDER No AND THE RELEVANT RTA SUPPLY CAT No.

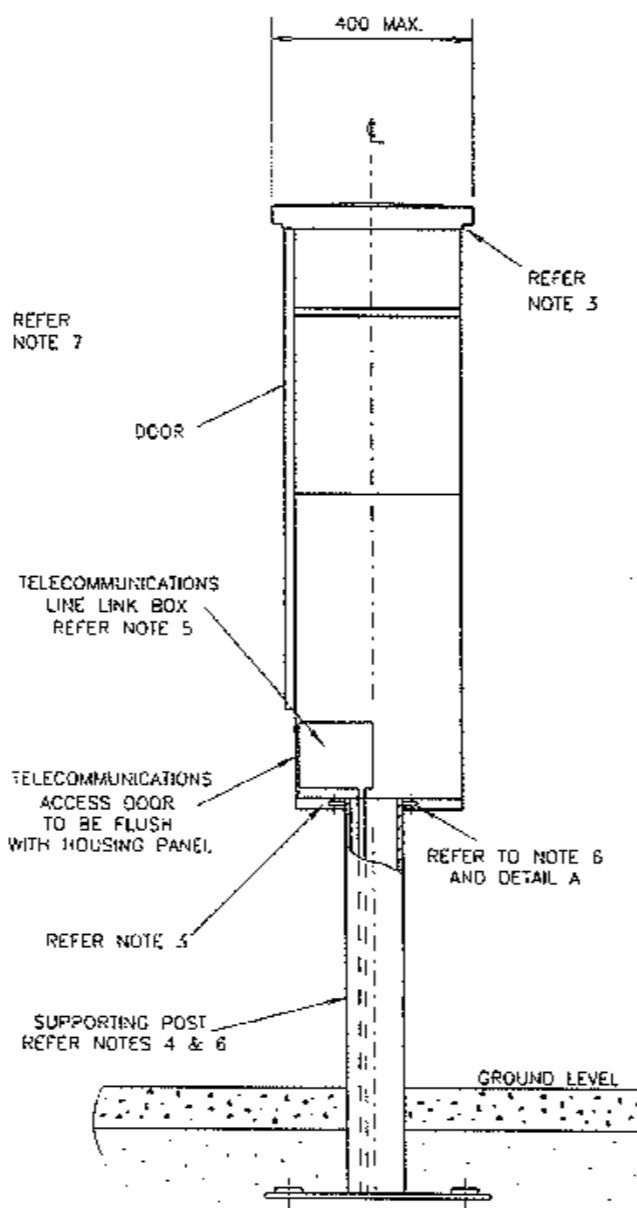
PROCEDURE

- SLIDE THE LARGE SLEEVE ONTO THE CABLE.
- CUT BACK SHEATH AND STAGGER CORES AS SHOWN.
- STRIP BACK ALL CORES TO SUIT THE IN-LINE SPLICE (AS PER MANUFACTURERS REQUIREMENTS).
- JOIN THE CORES UTILISING THE IN-LINE SPLICE CONNECTORS SUPPLIED, CONNECTING ONE LAYER AT A TIME USING THE CRIMP TOOL RECOMMENDED BY THE IN-LINE SPLICE MANUFACTURER. CRIMP TOGETHER THE:
 - BLACK (NEUTRAL), GREY (ELV RETURN) & GREEN/YELLOW (EARTH) EQUIVALENT CORES USING THE BLUE SPLICE FOR THE 2.5mm² CORES AND THE YELLOW SPLICE FOR THE 4mm² CORES.
 - REMAINING EQUIVALENT CORES USING THE RED SPLICE.
- CHECK ALL OF FINISHED CABLE SPLICE CONNECTIONS BY PULLING THE CABLE EITHER SIDE OF THE SPLICE. IF CORES PULL APART OR ARE LOOSE, CHECK TO SEE IF CRIMPING TOOL IS WORN. RECRIMP ALL WITH NEW CRIMPING TOOL.
- SHRINK DOWN ALL SPLICES & ENSURE THERE IS A BEAD OF ADHESIVE VISIBLE AT EACH END. CAUTION MUST BE TAKEN NOT TO DAMAGE THE CONNECTOR CORE INSULATION.
- WHEN ALL THE CORES HAVE BEEN CRIMPED AND SHRUNK, WRAP THE FIBREGGLASS TAPE AROUND THE CABLE CORES. THIS WILL PROTECT THE CORE INSULATION FROM THE HEAT REQUIRED TO SHRINK THE LARGE SLEEVE.
- ROUGHEN THE ENDS OF THE CABLE SHEATH WITH THE ABRASIVE STRIP PROVIDED. CLEAN THE ROUGHENED AREA OF THE CABLE SHEATH WITH THE 'SOLVENT WIPE' IN THE SACHET PROVIDED.
- CENTRE THE SLEEVE OVER THE JOINT, HEAT THE SLEEVE WITH A SOFT FLAME FROM A PROPANE OR BUTANE GAS TORCH, START FROM THE CENTRE AND WORK TO THE OUTER EDGES, ONE SIDE AT A TIME, HEATING AROUND THE SLEEVE FOR EQUAL WALL THICKNESS. USING A BRUSHING TYPE MOTION AND AVOIDING AIR POCKETS. HEAT THE SLEEVE UNTIL A BEAD OF ADHESIVE IS VISIBLE AT BOTH ENDS.
- THE TRACEABILITY TAG TO BE ATTACHED TO THE CABLE ON COMPLETION.

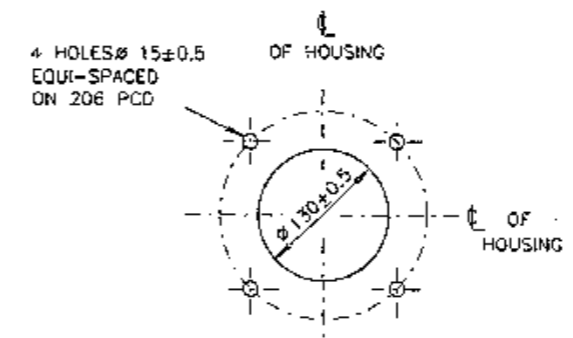
'F' ISSUE 1-09-94 J/I TC2576 PLAN RE-DRAWN IN TABLE TUBE WAS 6/2 & ADD 'APPROVED EQUIV.' EB RVC	'G' ISSUE 29-05-01 J/I TC2030 NOTE 5 ADDED & NOTE NOS ADJUSTED. NOTE 3 ALTERED. DIMS 55 & 120 WERE 50 & 115. SMALL TUBING HEAT SHRINK DELETED. LARGE SLEEVE SIZES REVISED. WATERPROOF IN-LINE SPLICE BLUE & RED WERE UTILIX CRIMPS H3911 & H3910 R/SP. RVC LWT	'H' ISSUE 25-05-12 YELLOW IN-LINE SPLICE ADDED TO TABLE FOR 29C CABLE. DB	BWT	KIT TYPE	RTA CAT No	REFERENCE DRAWINGS	ROADS AND TRAFFIC AUTHORITY OF NSW TRAFFIC SIGNALS	SCALE	APPROVED: 29-09-86	
				19 CORE CABLE	18231026				SUPERSEDES: ISSUE E	F.R. HULSCHER
				29 CORE CABLE	18231034				DRAWN AS 3-12-85	MANAGER STANDARDS & QUALITY
									CHECKED RB 18-12-85	ISSUE
								PASSED BWT 12-03-88	VM417-3	



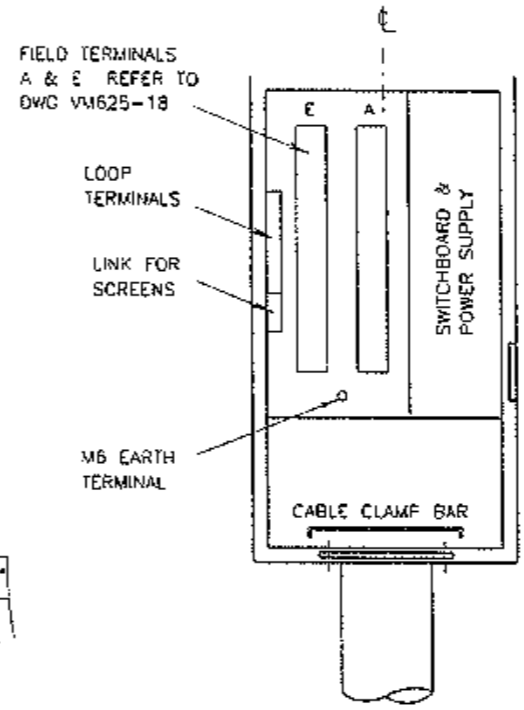
FRONT VIEW (DOOR OMITTED)
1:10



SIDE VIEW
(SIGNAL POST OMITTED)
1:10



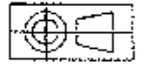
DETAIL 'A'
HOUSING BASE DRILLING DETAIL
1:5



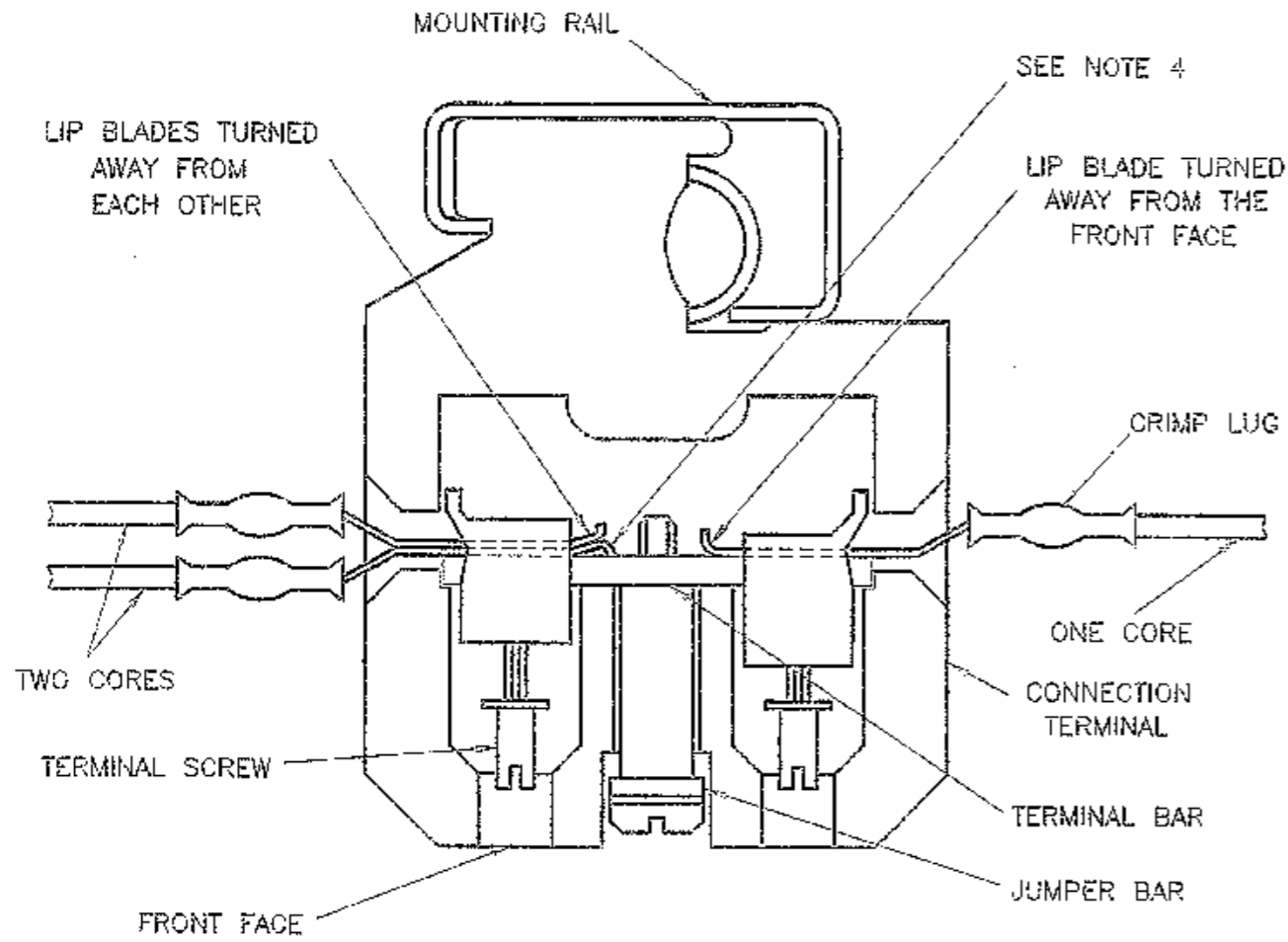
DETAIL 'B'
LOCATION OF SWITCHBOARD,
POWER SUPPLY & FIELD TERMINALS
(NTS)

NOTES

1. ALL DIMENSIONS ARE IN MILLIMETRES.
2. THE WEATHERPROOF HOUSING SHALL HAVE FACILITIES FOR ATTACHMENT AT TWO POINTS TO A STANDARD TYPE 2 TRAFFIC SIGNAL POST. MOUNTING SHALL BE POSSIBLE ON EITHER SIDE OF THE HOUSING WITH HOLES PROVIDED AND SUITABLY PLUGGED.
3. SUFFICIENT VENTILATION SHALL BE PROVIDED REFER TO THE SPECIFICATION TSC/4.
4. SUPPORTING POST AS PER DRG. NO. VM625-2 (RYA CAT NO 18254165) SHALL BE SUPPLIED SEPARATELY.
5. THE TELECOMMUNICATIONS LINE LINK BOX SHALL BE MOUNTED ON THE CONTROLLER CHASSIS. FOR DETAILS REFER TO DWG. NO. VM621-32.
6. THIS DRAWING SHOWS THE POST SUPPORTED CONTROLLER ARRANGEMENT. BUT THE HOUSING CONSTRUCTION SHALL BE OF SUFFICIENT STRENGTH TO ENSURE RIGIDITY AND STABILITY WHEN THE CONTROLLER IS FREE STANDING.
7. SPACE REQUIRED FOR ACCOMMODATING EQUIPMENT AND TERMINALS FOR EIGHT (8) SIGNAL GROUPS. REFER TO SPECIFICATION TSC/4.
8. THE DOOR SHALL NOT NEED TO BE OPENED MORE THAN 90° TO GAIN FULL ACCESS TO INTERNAL EQUIPMENT.
9. BASE MOUNTING SCREWS INCLUDING NUTS, WASHERS AND SPRING WASHERS (HOUSING TO SUPPORTING POST) AS WELL AS ATTACHMENT BRACKETS AND U-BOLTS WITH NUTS, WASHERS AND SPRING WASHERS (FOR ATTACHMENT TO STANDARD TYPE 2 TRAFFIC SIGNAL POST) HAVE TO BE GALVANISED IN ACCORDANCE WITH AS1214 & AS1650 AS APPLICABLE. THESE ITEMS TOGETHER WITH THE CABLE CLAMP BAR, NEOPRENE SEAL & REINFORCING PLATE SHALL BE PACKED INTO ONE STRONG BAG AND TIED SECURELY TO THE INSIDE OF THE CONTROLLER HOUSING ON DELIVERY.
10. ALL INTERNAL CONNECTIONS TO BE ON THE RIGHT SIDE OF THE TERMINAL BLOCKS FOR BLOCK 'A' AND ON THE LEFT SIDE FOR BLOCK 'E'. REFER TO DWG VM625-18 FOR DETAILS OF THE TERMINAL LAYOUT DIAGRAM.
11. THE TWO EQUIPMENT SHELVES SHALL BE CLEAR OF THE SIDES OF THE HOUSING MIN. 30MM TO ALLOW FOR CABLING. THE FRONT OF THE SHELVES SHALL BE SUITABLY RECESSED INTO THE HOUSING TO ALLOW FOR FRONT CABLE CONNECTIONS TO DEVICES ON THE SHELVES.
12. THE BACK EDGE OF THE SHELVES TO BE FOLDED UP 10MM.
13. BOTH SHELVES SHALL HAVE A TOTAL AREA OF EVENLY DISTRIBUTED VENTILATION OPENINGS NOT LESS THAN 25% OF THE TOTAL SHELF AREA.
14. REFER TO SPECIFICATION TSC/4 FOR OTHER REQUIREMENTS.



A ORIGINAL ISSUE B ISSUE 11-01-1999 J/L TC2967 NOTE TO ADDED, REF TO TELECOM REMOVED, R4C CH C ISSUE 24-11-2014 PLAN UPDATED TO SUIT CURRENT STANDARDS. BWT, LC D ISSUE 12-02-2015 HOUSING DIMENSIONS REVISED TO SUIT CURRENT REQUIREMENTS. A.L. E ISSUE 28-04-2015 THE WORD "TYPICAL" REMOVED FROM PLAN TITLE. BWT, LC	REFERENCE DRAWINGS TERMINAL LAYOUT VM625-18 SUPPORT POST VM625-2 CONCRETE BASE VC002-43 COMMS LINK VM621-32	DRAWN J.GRESHAM 1991-04-18 CHECKED B.T. 1993-02-01 PASSED B.TAYLOR 1995-02-01 APPROVED F. HULSCHER DATE 1995-02-01	ROADS AND TRAFFIC AUTHORITY NSW TRAFFIC SIGNALS	SHEET SIZE A2	FILE NO VM625-1	SCALE AS SHOWN	SHEET NO 17
	OUTLINE & ARRANGEMENT FOR POST MOUNTED HOUSINGS			SUPERSEDES VM625-1 ISSUE A B C D E			
				REG NO VM625-17			



NOTES

1. FOR SINGLE CORE ENTRY, THE LIP OF THE BLADE MUST BE TURNED AWAY FROM THE FRONT FACE OF THE TERMINAL.
2. FOR TWO CORE ENTRY, THE LIPS OF THE BLADES MUST BE TURNED AWAY FROM EACH OTHER.
3. DO NOT CUT THE LIPS OFF THE CRIMP BLADES.
4. LUGS MAY BEND (AS SHOWN) IF THE TERMINAL BAR HAS NO GROOVE.

B ISSUE 7-10-97 JI TC2586 PLAN REDRAWN RVC	REFERENCE DRAWINGS	
	TERMINAL ASSEMBLY: VM015-19	
ROADS AND TRAFFIC AUTHORITY OF NSW TRAFFIC SIGNALS	SCALE	APPROVED: 2-02-1989 F R HULSCHER
CORRECT METHOD OF INSERTING LIP BLADE CRIMP LUGS IN CONNECTION TERMINALS	SUPERSEDES: ISSUE A	MGR STANDARDS & QUALITY
	DRAWN: RVC	ISSUE: B
	CHECKED: BWT	
PASSED: BWT 2-02-89		VM417-5

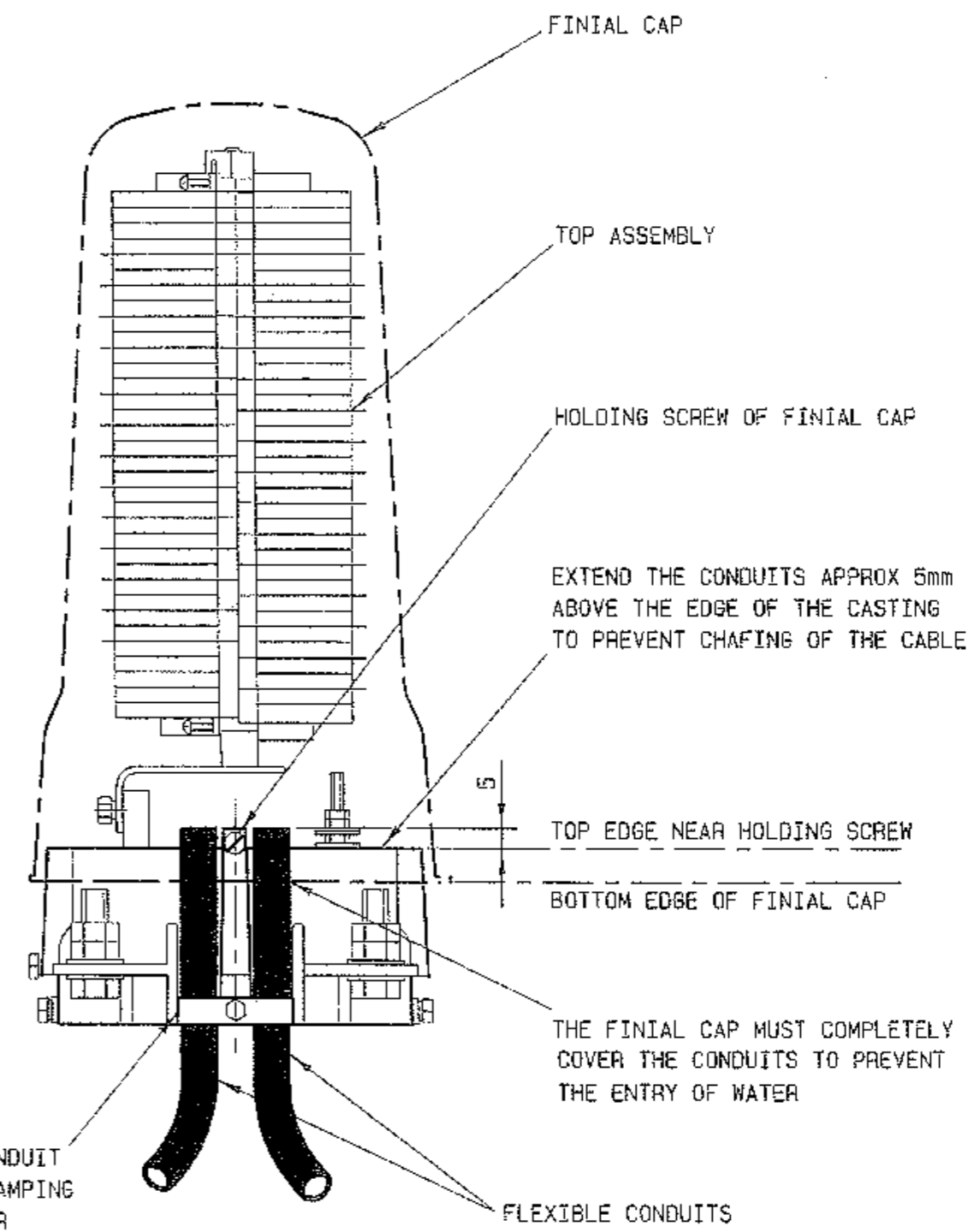
MAXIMUM ALLOWABLE CABLE COMBINATION IN PIPES		
PIPE SIZE	CABLE COMBINATION	
	29 CORE	2 C/S
50 NB (SEE NOTE 1)		6
80 NB	2	12

NOTES :-

1. ONLY ONE SIGNAL CABLE WITH FEEDER CABLES SHALL BE ALLOWED IN 50 NB PIPE.
2. IF THE TABLE DOES NOT SATISFY REQUIREMENTS, THE SIZE OF THE PIPE SHALL BE SELECTED TO ALLOW THE PULLING OF CABLES WITHOUT RISK OF DAMAGE DURING INSTALLATION, BUT IN ANY CASE, THE SPACE FACTOR SHALL NOT EXCEED 50%.
3. ALL CABLES ARE IN ACCORDANCE WITH SPEC C/12 AND AS2275.
4. MINIMUM OF 3 SPARE CORES MUST BE PROVIDED IN ALL NEW 29 CORE CABLES.
5. WHERE PIPES ARE EXISTING, THE MAXIMUM NUMBER OF CABLES ALLOWABLE SHALL BE SUCH AS WILL PERMIT INSTALLATION OF THE CABLES WITHOUT DAMAGE.

D ISSUE 1-11-93 JI TC2436 IN NOTE 3 SPEC WAS C/11 EB RVC	E ISSUE 7-10-97 JI TC2922 IN NOTE 4 REF WAS TO MID BLK ONLY. NOTE B, 7 ADDED. IN NOTE 5 'NEW' ADDED. RVC BWT	F ISSUE 25-5-10 TABLE REWROLD. REFERENCE TO 6S NB PIPE & 19C CABLE DELETED. NOTE 4,6 DELETED. NOTE 5,7 RE- NUMBERED TO SUIT BWT LC	REFERENCE DRAWINGS	
ROADS AND TRAFFIC AUTHORITY OF NSW TRAFFIC SIGNALS			SCALE	APPROVED: 1-2-1983 F R HULSCHER
MAXIMUM ALLOWABLE CABLE COMBINATION IN PIPES FOR TRAFFIC SIGNAL INSTALLATIONS			SUPERSEDES: ISSUE C	MGR STANDARDS & QUALITY
			DRAWN: GM	ISSUE: F
			CHECKED: BWT	
			PASSED: B TAYLOR 24-12-82	VR007-6

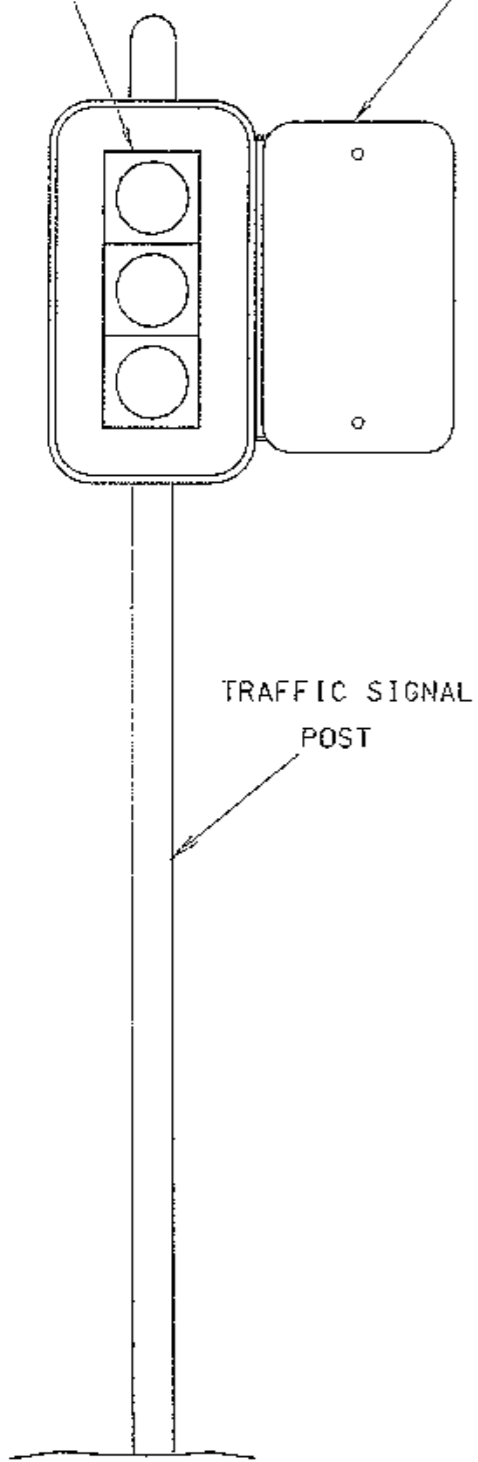
FACILITY	REQUIRED CONDUIT LENGTH (MEASURED FROM THE POINT OF ENTRY TO THE EQUIPMENT)	REQUIRED EXCESS LEAD OR CABLE LENGTH (MEASURED FROM THE END OF THE CONDUIT)
PEDESTRIAN LANTERN	2.3 METRE	0.7 METRE
VEHICLE LANTERN 200mm 3- OR 4-ASPECT COLUMN-MOUNTED	2.3 METRE	5 OR 6 CORE CABLE 2.2 METRE (4.5m FROM POINT OF ENTRY)
VEHICLE LANTERN 200mm 3- OR 4-ASPECT OUTREACH-MOUNTED	2.3 METRE	5 OR 6 CORE CABLE 12.7 METRE (15m FROM POINT OF ENTRY)
VEHICLE LANTERN 300mm 3-ASPECT OUTREACH-MOUNTED	2.3 METRE	5 CORE CABLE 12.7 METRE (15m FROM POINT OF ENTRY)
AUDIO-TACTILE HOUSING	2.3 METRE	0.7 METRE FOR ALL LEADS EXCEPT 4.5 METRE FOR TRANSDUCER LEADS (ie FIGURE 8 WIRES)



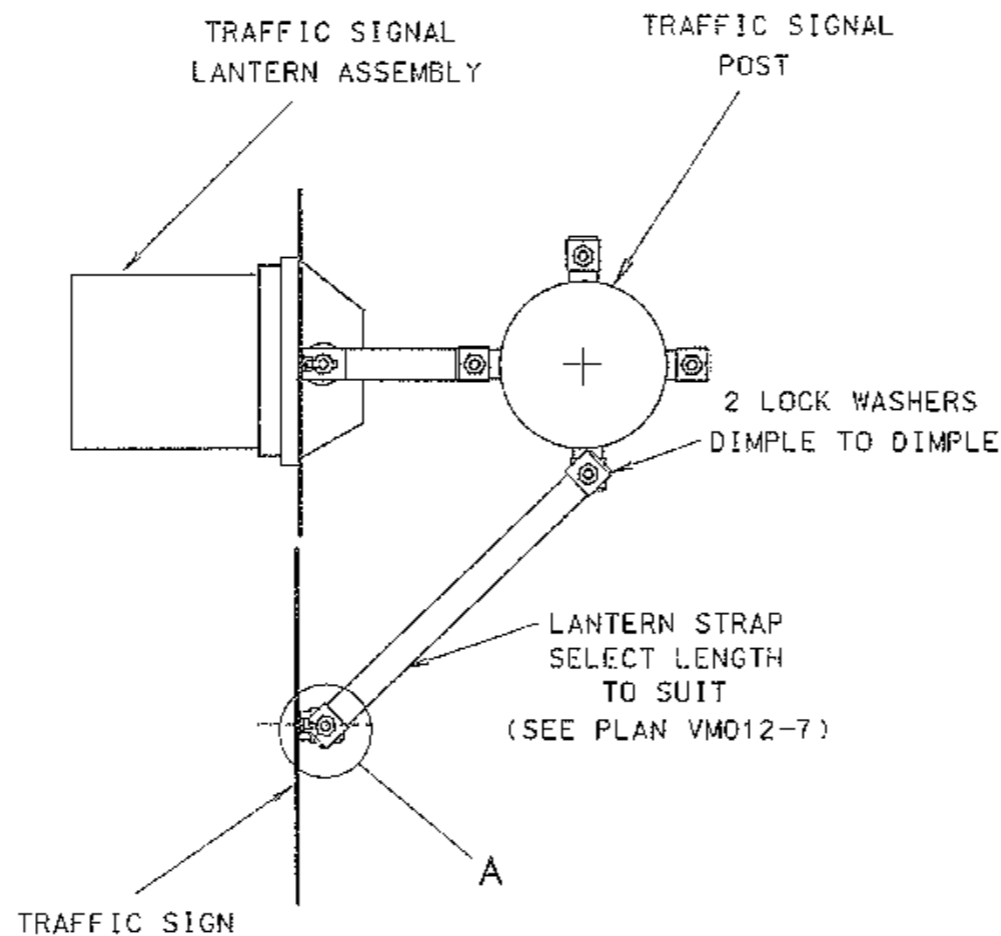
A ORIGINAL ISSUE B Issue 05-3-13 Flex conduit lengths standardised at 2.3m. Excess lead length was 1.5m. Details of 5 or 6 core cable lengths added. BWT. LC.	REFERENCE DRAWINGS	
ROADS AND TRAFFIC AUTHORITY OF NSW TRAFFIC SIGNALS	SCALE	APPROVED: 13/03/98 T YUNG MANAGER EQUIPMENT & STDS
TABLE SHOWING CONDUIT AND EXCESS LEAD LENGTHS FOR LANTERNS AND AUDIO- TACTILE HOUSING ON MULTIFUNCTION POLES	SUPERSEDES: -	ISSUE <input checked="" type="checkbox"/> A <input type="checkbox"/> B <input type="checkbox"/> C <input type="checkbox"/> D <input type="checkbox"/> E <input type="checkbox"/> F <input type="checkbox"/> G <input type="checkbox"/> H <input type="checkbox"/> I <input type="checkbox"/> J <input type="checkbox"/> K <input type="checkbox"/> L <input type="checkbox"/> M <input type="checkbox"/> N <input type="checkbox"/> O <input type="checkbox"/> P <input type="checkbox"/> Q <input type="checkbox"/> R <input type="checkbox"/> S <input type="checkbox"/> T <input type="checkbox"/> U <input type="checkbox"/> V <input type="checkbox"/> W <input type="checkbox"/> X <input type="checkbox"/> Y <input type="checkbox"/> Z
	DRAWN RVC 12-03-98	
	CHECKED BWT 12-03-98	
PASSED B TAYLOR 12-03-98	VR007-7	

A ORIGINAL ISSUE	REFERENCE DRAWINGS	
	TOP ASSEMBLY	VH200-15
ROADS AND TRAFFIC AUTHORITY OF NSW TRAFFIC SIGNALS	SCALE	APPROVED: <i>A. Capola</i> MANAGER EQUIPMENT & STDS
METHOD OF CLAMPING CONDUITS ON POST TOP ASSEMBLIES	SUPERSEDES:	ISSUE <input checked="" type="checkbox"/> A <input type="checkbox"/> B <input type="checkbox"/> C <input type="checkbox"/> D <input type="checkbox"/> E <input type="checkbox"/> F <input type="checkbox"/> G <input type="checkbox"/> H <input type="checkbox"/> I <input type="checkbox"/> J <input type="checkbox"/> K <input type="checkbox"/> L <input type="checkbox"/> M <input type="checkbox"/> N <input type="checkbox"/> O <input type="checkbox"/> P <input type="checkbox"/> Q <input type="checkbox"/> R <input type="checkbox"/> S <input type="checkbox"/> T <input type="checkbox"/> U <input type="checkbox"/> V <input type="checkbox"/> W <input type="checkbox"/> X <input type="checkbox"/> Y <input type="checkbox"/> Z
	DRAWN RVC 10-07-95	
	CHECKED <i>BWT</i>	
	PASSED <i>B. Taylor 10-8-95</i>	
		VR017-11

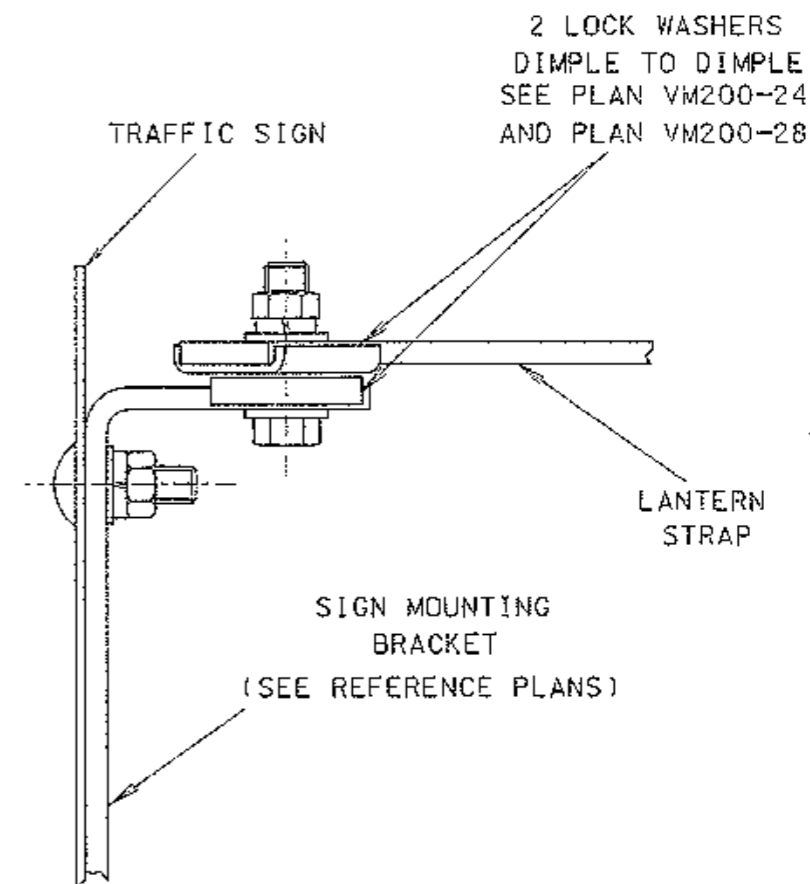
TRAFFIC SIGNAL LANTERN ASSEMBLY
TRAFFIC SIGN (EXAMPLE ONLY)



FRONT VIEW
1:20



TOP VIEW
1:10



SIDE VIEW (DETAIL A)
1:2

A ORIGINAL ISSUE

REFERENCE DRAWINGS

BKT SINGLE SMALL	VT006-51	LANERN STRAPS	VM012-7
BKT SINGLE LARGE	VT006-52	LOCK WASHER ASBLY	VM200-28
BKT DOUBLE SMALL	VT006-53		
BKT DOUBLE MEDIUM	VT006-54		
BKT DOUBLE LARGE	VT006-55		
LOCK WASHER	VM200-24		

ROADS AND TRAFFIC AUTHORITY OF NSW
TRAFFIC SIGNALS

SCALE
AS SHOWN

APPROVED:

[Signature] 10/11/98

ASSEMBLY DETAILS FOR TRAFFIC SIGNS
USING LOCK WASHERS

SUPERSEDES: -	
DRAWN	RVC 02-11-98
CHECKED	<i>B.W.T</i> 9-11-98
PASSED	<i>B. Taylor</i> 9-4-98

MANAGER EQUIPMENT & STDS
ISSUE A

VT006-60