

TCG 018 - 2019

Register of

ITS Approved Products

November 2019

Revision: 1.6



Department
of Transport

TCG 018 ITS Approved Products

Foreword

This specification has been developed by Department of Transport (DoT) (Roads). It is one of a number of technical specifications, and associated standard drawings, which set out the requirements for roadside ITS devices, traffic signal equipment and other electrical equipment and associated devices and control systems.

This specification is intended for use in all relevant works undertaken by or on behalf of DoT (Roads).

DoT (Roads) Standard Drawings, Specifications and Guidelines are available for downloading from the VicRoads website:
<https://www.vicroads.vic.gov.au/business-and-industry/technical-publications/electrical-and-intelligent-transport-systems>

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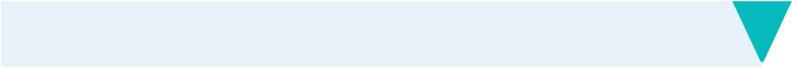
Specification updates. DoT specifications and associated standard drawings are subject to periodic review. To keep the specifications up to date, amendments or new editions are issued as necessary. It is therefore important for users of DoT specifications to ensure that they have the latest version and associated amendments.

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Revision History

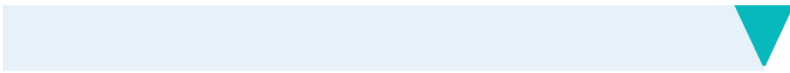
Revision	Date	Description
1.0	January 2017	First release
1.1	April 2017	Update
1.2	July 2017	Update
1.3	August 2017	Update
1.4	November 2017	Update
1.5	November 2018	Update
1.6	November 2019	Update

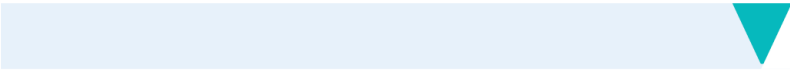


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SECTION 1 SCOPE AND GENERAL

1.1 SCOPE

This Document is intended to provide a list of current, DoT (Roads) Approved, traffic signal, ITS and other on-road electrical products intended for use on various DoT (Roads) projects within the State of Victoria.

1.2 GENERAL

DoT (Roads) Product Compliance process aims to ensure that products used on DoT (Roads) projects are:

- Compliant with DoT (Roads) specifications
- Compliant with Australian Standards
- Compliant with legal, regulatory and statutory requirements
- Compatible with existing ITS systems and infrastructure

The Product Compliance process also provides:

- Efficiency and consistency in delivery
- Efficient procurement
- Reduction operating costs through consistency
- Lower system integration time and costs
- Reduced financial risk to DoT
- Improved road safety

1.3 USE OF TYPE APPROVED PRODUCTS

Where a Type Approved product is available, only DoT (Roads) Type Approved product shall be used on any DoT (Roads) project within the State of Victoria.

Where a new product type is being considered for use, DoT (Roads) shall be engaged to provide support and advice.

SECTION 2 TRAFFIC SIGNAL HARDWARE

2.1 GENERAL

This section details approved traffic signal hardware. The devices covered in this section include:

- Traffic signal controllers
- Traffic signal lanterns
- Traffic signal lantern hardware (eg. Visors, target boards, mounting brackets)
- Vehicle detection devices
- Pedestrian detection devices
- Cable pits typically used for signal installations
- Detector pits
- Traffic signal cable
- Traffic signal poles
- Pole and cabinet foundations

2.2 CONTROLLERS

Product Type	Supplier	Product Name	Type Approval Number
Controller	Aldridge Traffic Systems	QTC3264 Traffic Signal Controller	PA 030 162
	Aldridge Traffic Controllers	ATSC4 Traffic Signal Controller (includes VC-6)	PA 030 197
	Tyco	Eclipse Traffic Signal Controller	PA 030 206
	Aldridge Traffic Controllers	Rail Crossing Active Advanced Warning System Controller	PA 030 232
	Tyco	Eclipse EB small controller	PA 030 266
	Aldridge Traffic Controllers	XTTY Personality Module	PA 030 332
Communication	Telstra	UC-400T	N/A
UPS	Aldridge Traffic Controllers	Uninterruptable Power Supply	PA 030 228
	CPS National	Uninterruptable Power Supply	PA 030 229
	Tyco	Uninterruptable Power Supply	PA 030 327

2.3 LANTERNS – LED (200MM ONLY)

Product Type	Supplier	Product Name	Type Approval Number
Vehicle	Aldridge Traffic Systems P/L	5mm LED	PA 030 080
	Tyco P/L	5mm LED	PA 030 221
	Kalington International P/L	HPSM LED	PA 030 237
	Aldridge Electrical Industries	5mm LED	PA 030 242
	Braums P/L	HPSM LED	PA 030 305
	Aldridge Traffic Systems P/L	HPSM LED	PA 030 333
	Tyco P/L	HPSM LED	PA 030 361
Arrow	Aldridge Traffic Systems P/L	5mm LED	PA 030 075
	Tyco P/L	5mm LED	PA 030 222
	Kalington International P/L	HPSM LED	PA 030 262
	Aldridge Electrical Industries P/L	5mm LED	PA 030 243
	Braums P/L	HPSM LED	PA 030 306
	Aldridge Traffic Systems P/L	HPSM LED	PA 030 333
	Tyco P/L	HPSM LED	PA 030 361
Pedestrian	Aldridge Traffic Systems P/L	5mm LED	PA 030 079
	Tyco P/L	5mm LED	PA 030 223
	Kalington International P/L	HPSM LED	PA 030 263
	Aldridge Electrical Industries P/L	5mm LED	PA 030 247
	Braums P/L	HPSM LED	PA 030 307
	Tyco P/L	HPSM LED	PA 030 361
U-Turn	Aldridge Traffic Systems P/L	5mm LED	PA 030 155
	Braums P/L	HPSM LED	PA 030 326
B (Bus)	Aldridge Traffic Systems P/L	5mm LED	PA 030 193
	Braums P/L	HPSM LED	PA 030 329
Bicycle	Aldridge Traffic Systems P/L	5mm LED	PA 030 194
	Braums P/L	HPSM LED	PA 030 318
	Tyco P/L	HPSM LED	PA 030 361
T (Tram)	Aldridge Traffic Systems P/L	5mm LED	PA 030 156
	Braums P/L	HPSM LED	PA 030 328
E (Emergency)	Braums P/L	HPSM LED	PA 030 330
Ped Countdown Timer	Aldridge Traffic Systems P/L	5mm LED	PA 030 295

2.4 HARDWARE

Product Type	Supplier	Product Name	Type Approval Number
Target Board	Aldridge Electrical Industries P/L	Metal	PA 030 250
	Braums P/L	Metal	PA 030 311
	Kalington International P/L	Metal	PA 030 339
	Aldridge Traffic Systems P/L	Metal	PA 030 191

Visor	Aldridge Traffic Systems P/L	Lantern - Type 1, 2 and 3	
	Aldridge Traffic Systems P/L	Pedestrian - Plastic	PA 029 5030
	Tyco P/L	Lantern - Type 1, 2 and 3, Pedestrian	PA 029 5116
	Braums P/L	Lantern - Type 1, 2 and 3, Pedestrian	
	Kalington International P/L	Lantern - Type 1, 2 and 3, Pedestrian	PA 030 340

Bracket	Aldridge Traffic Systems P/L	Mounting Brackets - 4 and 2 Way	
	Aldridge Electrical Industries P/L	Mounting Brackets - 4 and 2 Way	PA 030 244
	Braums P/L	Lower Mounting Brackets - 4 and 2 Way	PA 030 315
	Tyco	Lower Mounting Brackets - 4 and 2 Way	PA 030 302

Upper Mounting Assembly	Aldridge Traffic Systems P/L	Assembly - Upper Mounting	
	Aldridge Electrical Industries P/L	Assembly - Upper Mounting	PA 030 252
	Tyco P/L	Assembly - Upper Mounting	PA 030 308
	Braums P/L	Assembly - Upper Mounting	PA 030 323

2.5 DETECTION

Product Type	Supplier	Product Name	Type Approval Number
Vehicle	Detector Loop Services P/L	Megapoxy Loop Sealant	PA 029 5128
	Detector Loop Services P/L	Ezy Loop Pre-formed Detector Loop	PA 030 064
	Rose Civil P/L	Pre-Formed Detector Loop	PA 030 245
	Juvana P/L	Patriot Pre-formed inductive loop	PA 030 358
	Tyco P/L	Detector Rack - CW 501-304	PA 029 5014
	AGD P/L	AGD 200-102	PA 030 028
	AGD P/L	AGD 200-103 Portable Signal Detector	PA 030 029
	AGD P/L	AGD 200-326 230V Passage detector	PA 030 030

	AGD P/L	AGD 200(VX) Series 12v or 230v vehicle speed detector	PA 030 031
	AGD P/L	VXO 1201 Micro Wave Det. - Variable Speed Threshold	PA 029 5079
	AGD P/L	AGD 335 Radar Detector	PA 030 300
	Traffic Sensors P/L & Cubic Transportation Systems Australia P/L	Gridsmart Video Detection System	PA 030 294

Pedestrian	Aldridge Traffic Systems P/L	Pedestrian Push Button	PA 030 0006
	Tyco P/L	AWA Plessey "No Moving Parts" p/b	PA 030 021
	Aldridge Electrical Industries P/L	Pedestrian Detector	PA 030 248
	Braums P/L	Pedestrian Push Button Assembly	PA 030 322
	AGD P/L	AGD 226 Pedestrian Puffin "Walk" Detector	PA 030 246

Audio Tactile	Tyco P/L	Audio Tactile Driver	PA 029 5087
	Quick Turn Circuits P/L	Audio Tactile Unit	PA 029 5123
	Aldridge Traffic Systems P/L	Audio Tactile Driver Board	PA 030 003
	Aldridge Electrical Industries P/L	Audio Tactile Driver & Transducer	PA 030 253
	Braums P/L	Audio Tactile Driver and Transducer	PA 030 321

2.6 PITS

Product Type	Supplier	Product Name	Type Approval Number
Cable Pit 600mm	Linpac Polycast P/L	Pit - Cable - Corrugated	PA 029 5109
	Ausmar Industries P/L	Cable Pit Former	PA 030 001
	BVCI P/L	Cable Pit Former	PA 030 284
	BVCI P/L	Ribbed Pit Former	PA 030 292
	Access Covers Australia P/L	Cable Pit Former	PA 030 369

Cable Pit 750mm	Access Covers Australia P/L	Cable Pit Former	PA 030 367
	Convic Australia P/L	Cable Pit Former	PA 030 371

Cable Pit 600mm Lid and frame	Webforge (Vic) P/L	Pit Lid & Frame - 600mm	PA 029 5124
	Milnes / Gatic P/L	Pit Lid - Cast Iron - Concrete Core Infill - 600mm	PA 029 5112
	S.V.C. Products P/L	Pit Lid & Ring - 600mm	PA 029 5121
	S.V.C. Products P/L	Pit Lid - Cast Iron - Concrete Core Infill - 600mm	PA 029 5111
	Gatic P/L	All-steel cable pit lid & frame	PA 030 065
	EJ (formerly Havestock) P/L	600mm Steel Pit Lid & Frame	PA 030 153
	Hygrade Water P/L	600mm Cable Pit Lid & Frame	PA 030 261
	Aco Polycrete P/L	600mm Cable Pit Lid cover & frame	PA 030 208

	BVCI P/L	600mm Cast Iron Pit Lid & Frame	PA 030 293
	Access Covers Australia P/L	600mm Cast Iron Pit Lid & Frame	PA 030 230
	Convic Australia P/L	600mm Composite Pit Lid & Frame	PA 030 354
	Access Covers Australia P/L	600mm Cellular Steel Pit Frame	PA 030 388

Detector Pit	Linpac Polycast P/L	Plastic Detector Pit & Lid	PA 030 002
	Gatic P/L	Plastic Detector pit with aluminium lid	PA 030 084
	South Eastern Industrial Supplies P/L	Detector Pit Lid	PA 030 211
	Hygrade Water P/L	Detector Pit Lid - 200mm	PA 030 264
	BVCI P/L	Plastic Detector pit with aluminium lid	PA 030 84A
	BVCI P/L	Detector pit with Cast Iron	PA 030 281

2.7 CABLE

Product Type	Supplier	Product Name	Type Approval Number
Traffic Signal	Olex Cable P/L	51 Core Cable	PA 030 087
	Olex Cable P/L	13 Core Cable	PA 030 088
	General Cable P/L	Multicore Traffic Signal Cable (19, 29 and 51 core)	PA 030 149
	Madison Technologies P/L	Multicore Traffic Signal Cable (13,19, 29 and 51 core)	PA 030 258
	CMI Electrical Products P/L	Multicore Traffic Signal Cable (13,19, 29 and 51 core)	PA 030 278
	Detector Loop Services P/L	Multicore Traffic Signal Cable (13,19, 29 and 51 core)	PA 030 270
	Eltech Industries P/L	Multicore Traffic Signal Cable (13,19, 29 and 51 core)	PA 030 312
	Electra Cables P/L	Multicore Traffic Signal Cable (13,19, 29 and 51 core)	PA 030 324
	Bambach Wire and Cables P/L	Multicore Traffic Signal Cable (13,19, 29 and 51 core)	PA 030 334

Detector Feeder	Olex Cable P/L	2 Core Detector Feeder Cable	PA 030 089
	General Cable P/L	Detector Feeder Cable	PA 030 150
	Bambach Wire and Cables P/L	Detector Feeder Cable	PA 030 216
	Detector Loop Services P/L	3 and 4 Pair Feeder Cable	PA 030 241
	Madison Technologies P/L	Detector Feeder Cable	PA 030 259
	Detector Loop Services P/L	Detector Feeder Cable	PA 030 286
	Eltech Industries P/L	Detector Feeder Cable	PA 030 313
	Electra Cables P/L	1 and 3 Pair Feeder Cable	PA 030 325

Detector Loop	General Cable P/L	Loop Cable for Vehicle Detectors	PA 030 151
	Bambach Wire and Cables P/L	Detector Loop Cable	PA 030 217
	Madison Technologies P/L	Detector Loop Cable	PA 030 260
	Eltech Industries P/L	Detector Loop Cable	PA 030 314
	Electra Cable P/L	Detector Loop Cable	PA 030 325

2.8 POLES

Product Type	Supplier	Product Name	Type Approval Number
Pedestal 2A, 2B Type C	Northsteel P/L	Post - Traffic Signal - Type 2A	PA 029 5028
	Skinner Engineering P/L	Post - Traffic Signal - Type 2A, 2B & C	PA 029 5047
	Wanbanna P/L	Post - Traffic Signal - Type 2A, 2B & 3	PA 029 5126
	Lanez Engineering P/L	Type 2A Pedestal	PA 030 048
	Lanez Engineering P/L	Type 2B Pedestal	PA 030 049
	Coslee Heavy Metal Fabricators P/L	Type 2A and 2B pedestals	PA 030 083
	AJ Williams Group P/L	Raiser Bracket for 3 Asp Ltn	PA 030 100
	Ingal EPS P/L	2B Pedestal	PA 030 212
	Ideal Engineering Construction P/L	Type 2A and 2B pedestals	PA 030 287
Mast Arm (MA)	Ingal EPS P/L	Standard Clearance Mast Arms, 2.5m, 3.7m and 5.5m outreach	PA 030 092
	Ingal EPS P/L	Low Clearance Mast Arms, 2.5m, 3.7m and 5.5m outreach	PA 030 093
	Coslee Heavy Metal Fabricators P/L	Mast Arm	PA 030 202
Joint Use Pole (JUP)	Ingal EPS P/L	Joint Use Poles, 8m, 11m and 13.5m	PA 030 091
	Coslee Heavy Metal Fabricators P/L	Joint Use Poles	PA 030 182
Joint Use Mast Arm (JUMA)	Ingal EPS P/L	Standard Clearance JUMA 2.5m, 3.7m and 5.5m outreach	PA 030 094
	Ingal EPS P/L	Low Clearance JUMA 2.5m, 3.7m and 5.5m outreach	PA 030 095
	Coslee Heavy Metal Fabricators P/L	Joint Use Mast Arm	PA 030 201
Flashing Pedestrian Crossing	Ingal EPS P/L	Flashing Pedestrian Crossing Pole	PA 030 200
	Taperline Australia P/L	Flashing Pedestrian Crossing Pole	PA 030 185
	Coslee Heavy Metal Fabricators P/L	Flashing Pedestrian Crossing Pole	PA 030 392

2.9 FOUNDATIONS

Product Type	Supplier	Product Name	Type Approval Number
Rag Bolt Assembly	M.T.M Controls (Aust) P/L	Rag Bolt Assembly - Commercial Grade	PA 029 5008
	Lanez Engineering P/L	Rag Bolt Assembly - Commercial Grade	PA 030 046
Pole	Lanez Engineering P/L	Rag Bolt Assembly - High tensile	PA 030 047
	Lanez Engineering P/L	Rag Bolt Assembly for controller foundation	PA 030 059
	South Eastern Industrial Supplies P/L	Rag Bolt Assembly - Commercial Grade	PA 030 164
	South Eastern Industrial Supplies P/L	Rag Bolt Assembly - High Strength Grade	PA 030 165
	CSW Products P/L	Rag Bolt Assembly - Commercial Grade	PA 030 298
	CSW Products P/L	Rag Bolt Assembly - High Strength Grade	PA 030 299
	Ideal Engineering P/L	Rag Bolt Assembly M24 Commercial & HT Grade	PA 030 288
	Coslee Heavy Metal Fabricators P/L	Rag Bolt Assembly CG & HS	PA 030 348
	Wanbanna P/L	Rag Bolt Assembly CG & HS	PA 030 372

Reinforcing Cage	David Lewis P/L	2m Reinforcing Cage	PA 029 5101
	Lanez Engineering P/L	3m Reinforcing Cage	PA 030 045
	South Eastern Industrial Supplies P/L	3m Reinforcing Cage	PA 030 163
	Ideal Engineering P/L	3m Reinforcing Cage	PA 030 289
	Coslee Heavy Metal Fabricators P/L	3m Reinforcing Cage	PA 030 350
	M.A.S.T. Fabrications P/L	3m Reinforcing Cage	PA 030 356
	Wanbanna P/L	3m Reinforcing Cage	PA 030 373
	Access Covers P/L	3m Reinforcing Cage	PA 030 374

Rag Bolt Assembly	Ideal Engineering P/L	Rag Bolt Assembly for Cabinet	PA 030 290
	Coslee Heavy Metal Fabricators P/L	Rag Bolt Assembly for Cabinet	PA 030 349
Cabinet			

SECTION 3 ROAD LIGHTING

3.1 GENERAL

This section details approved road lighting hardware. The devices covered in this section include:

- Luminaires
- Poles
- Brackets
- Cable Joints

3.2 LUMINAIRES

Product Type	Supplier	Product Name	Type Approval Number
Luminaire LED	Traffic Technologies P/L	LED Road Lighting Luminaire L1 (ALS108) L2 (ALS162) L4 (ALS 216)	PA 030 272
	Gerard Lighting P/L	RoadLED L1 (100W 4K VR2 CO PEBN7 9006 aeroscreen) L2 (200W 4K VR2 CO PEBN7 9006 aeroscreen) L3 (300W 4K VR2 CO PEBN7 9006 aeroscreen)	PA 030 357
Luminaire Tunnel (LED)	Traffic Technologies P/L	T-LED 38W, 75W, 145W, 185W, 220W	PA 030 379
	Traffic Technologies P/L	FLUD FLUD-M, 150W, 200W, 240W, 300W	PA 030 380
Luminaire High Mast (LED)	Traffic Technologies P/L	H-LED 260W, 350W, 495W and 690W	PA 030 390
	Traffic Technologies P/L	E-LED High Mast Flood	PA 030 391

DoT no longer approves the installation of HPS luminaires. The list of approved HPS luminaires will be removed from the next update of this document.

Luminaire HPS	Rexell Holdings / Aldridge Traffic Systems P/L	150W	PA 030 115
	Rexell Holdings / Aldridge Traffic Systems P/L	250W	PA 030 116
	Sylvania P/L	150W Roadstar	PA 030 117
	Sylvania P/L	250W Roadstar	PA 030 118
	Sylvania P/L	400W Roadstar	PA 030 198
	Rexell Holdings / Aldridge Traffic Systems P/L	400W Optispan	PA 030 199
	Thorn P/L	Alpha 2000 - 150W & 250W	PA 030 205
	Schreder Ambar (Betacom Ltd) P/L	150W, 250W & 400W	PA 030 296

3.3 POLES

Product Type	Supplier	Product Name	Type Approval Number
Pole Slip Base	Coslee Heavy Metal Fabricators P/L	11m Slip Base Pole	PA 030 085
	Coslee Heavy Metal Fabricators P/L	13.5m Slip Base Pole	PA 030 099
	SafeRoads P/L	8.5m, 11m & 13.5 Slip Base Pole	PA 030 234
	Coslee Heavy Metal Fabricators P/L	8.5m Slip Base Pole	PA 030 086
	Ingal EPS P/L	8.5m, 11m & 13.5m Slip Base Pole	PA 030 122
	A D Coote & Co P/L	8.5m, 11m & 13.5m Slip Base Pole	PA 030 124
	Taperline Australia P/L	8.5m, 11m & 13.5m Slip Base Pole	PA 030 126
	CSP Pacific P/L	8.5m, 11m & 13.5m Slip Base Pole	PA 030 271

Pole Impact Absorbing	Coslee Heavy Metal Fabricators P/L	8.5m & 11m Impact Absorbing Pole	PA 030 105
	Ingal EPS P/L	8.5m & 11m Impact Absorbing Pole	PA 030 123
	A. D. Coote & Co. P/L	8.5m & 11m Impact Absorbing Pole	PA 030 125
	Saferoads P/L	8.5m & 11m Impact Absorbing Pole (Direct Buried)	PA 030 227
	Ingal EPS P/L	8.5m & 11m Impact Absorbing Pole (Direct Buried)	PA 030 274

Mid-Hinge Pole	Coslee Heavy Metal Fabricators P/L	10m Mid Hinge Pole	PA 030 183
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3.3 BRACKETS

Product Type	Supplier	Product Name	Type Approval Number
Bracket	Lanez Engineering P/L	Lighting Bracket Type 1 & 2	PA 030 148
	Coslee Heavy Metal Fabricators	Lighting Bracket Type 1	PA 030 171
	Coslee Heavy Metal Fabricators	Lighting Bracket Type 2	PA 030 172
	Dooza Engineering P/L	Lighting Bracket Type 1	PA 030 177
	Dooza Engineering P/L	Lighting Bracket Type 2	PA 030 178
	Sesco Engineering P/L	Lighting Bracket Type 1	PA 030 179
	Sesco Engineering P/L	Lighting Bracket Type 2	PA 030 180
	Interpole P/L	Lighting Bracket Type 1	PA 030 204
	Ingal EPS P/L	Lighting Bracket Type 1 & 2	PA 030 210
	Saferoads P/L	Lighting Bracket Type 1 & 2	PA 030 233
	CSP Pacific P/L	Lighting Bracket Type 1 & 2	PA 030 279

3.4 CABLE JOINTS

Product Type	Supplier	Product Name	Type Approval Number
Dome Style Joint	GV Kinsman P/L	<ul style="list-style-type: none"> VJ4CR-2.52CET - 4C+E Orange circ. 16//25/35mm² and 2.5² TPS VJ4CR-62CET - 4C+E Orange circ. 16/25/35mm² and 6mm² power authority cable VJ3SDI-2.5CET – 16/25/35mm² 1C XLPE/SDI and 2.5mm² TPS VJ3SDI-6CET – 16/25/35mm² 1C XLPE/SDI and 6mm² power authority cable 	PA 030 364
	Velnah P/L	<ul style="list-style-type: none"> JEDL223511611 – Single Phase JEDL423511611 – Three Phase 	PA 030 382

Product Type	Supplier	Product Name	Type Approval Number
Other	Sicame Australia P/L	Piranha – MUCI Series	N/A
'Off the shelf' connectors			

SECTION 4 ROADSIDE CABINETS

4.1 GENERAL

This section details approved roadside cabinets including:

- Electrical distribution cabinets
- ITS roadside cabinets
- Universal roadside cabinets

4.2 ELECTRICAL DISTRIBUTION CABINETS

Product Type	Supplier	Product Name	Type Approval Number
Type 1	Butler Electrics P/L	Three Phase Meter and Distribution Cabinet	PA 030 120
	Logix Engineering P/L	Three Phase Meter and Distribution Cabinet	PA 030 282
Type 2	Logix Engineering P/L	Single Phase Meter and Distribution Cabinet	PA 030 282
	Butler Electrics P/L	Single Phase Meter and Distribution Cabinet	PA 030 285
Type 3	Logix Engineering P/L	Three Door - Dual Three Phase Meter Distribution Cabinet (Lighting and ITS)	PA 030 282

4.3 ITS AND OTHER CABINETS

Product Type	Supplier	Product Name	Type Approval Number
ITS Cabinet Ground Mounted	Logix Engineering P/L	Single (3 door) and double (6 door) Cabinet	PA 030 239
	Hi-Lux Technical Services P/L	Single (3 door) and double (6 door) Cabinet	PA 030 362
	SAGE Automation P/L	Single (4 door) and double (6 door) Cabinet	PA 030 363
	B&R Enclosures Pty Ltd	Single (3 door) Cabinet	PA 030 377
	NHP Electrical Engineering Products P/L	ITS Field Cabinet (3 or 4 Door)	PA 030 385
ITS Cabinet Pole Mounted	SAGE P/L	Single Door Cabinet	PA 030 363
	B&R Enclosures Pty Ltd	Single Door Cabinet	PA 030 377
	NHP Electrical Engineering Products P/L	Single Door Cabinet	PA 030 385
Universal Roadside Cabinet	Logix Engineering P/L	Universal road side cabinet	PA 030 251

SECTION 5 ELECTRONIC SIGNS

5.1 GENERAL

This section details approved electronic signs. The typical electronic sign uses LED technology as an illuminating light source.

5.2 ELECTRONIC SIGNS

Product Type	Supplier	Product Name	Type Approval Number
ESLS (NMS compatible)	Hi-Lux Technical Services P/L	Discrete Character (2 Speeds)	PA 030 167
	Aldridge Traffic Systems P/L	Discrete Character (2 Speeds)	PA 030 276
ESLS (Other)	Hi-Lux Technical Services P/L	Discrete Character (2 Speeds)	PA 030 167
	Aldridge Traffic Systems P/L	Matrix Display and Discrete Character (2 speeds)	PA 030 276
Lane Use Sign	HMI Technologies	B and C Size	PA 030 336
	Compusign Systems P/L	C Size	PA 030 346
Ramp Control / Metering Sign (STREAMS compatible)	Hi-Lux Technical Services P/L	RC1 / RC2 / RC3	PA 030 188
	HMI Technologies P/L	RC1 / RC2 / RC3	PA 030 351
	Compusign Systems P/L	RC1 / RC2 / RC3A / RC3C	PA 030 366
No Right/Left Turn Sign	Hi-Lux Technical Services P/L	NRT / NLT	PA 030 189
	Aldridge Electrical Industries P/L	NRT / NLT	PA 030 195
	Axent Global P/L	NRT / NLT	PA 030 196
	Aldridge Traffic Systems P/L	NRT / NLT	PA 030 277

SECTION 6 CCTV

6.1 GENERAL

This section covers CCTV equipment that is considered suitable for use within DoT (Roads) CCTV network.

The products listed below have been tested and found to be compatible with DoT (Roads) CCTV network.

6.2 CAMERA

Product Type	Brand	Model
Digital Camera	Axis Communications	Q6045-E MkII (discontinued)
	Axis Communications	Q6055-E IP

SECTION 7 BLUETOOTH DETECTORS

7.1 GENERAL

This section covers Bluetooth equipment that is considered suitable for use within DoT (Roads) network and compatible with Addinsight.

The products listed below have been tested and found to be compatible with DoT (Roads) network and compatible with Addinsight.

6.2 DETECTOR

Product Type	Brand	Model
Bluetooth Travel Time Detectors	HMI	GeckoAI
	Sage	Addinsight OMNIA
	Sage	Addinsight v3.1
	Tyco	PCP-100 (3G)
	UHS	PC-400-BM

SECTION 8 NETWORK COMMUNICATIONS DEVICES

8.1 GENERAL

This section covers network communication devices that are considered suitable for use within DoT (Roads) network and compatible with DoT (Roads) systems.

The products listed below have been tested and found to be compatible with DoT (Roads) network and systems.

8.2 COMMUNICATIONS DEVICES

Product Type	Brand	Model
STREAMS Field Processor	For future use	For future use
Backbone Router	For future use	For future use
Access Switch	For future use	For future use
4G Modem	For future use	For future use