

EQUIPMENT LIST		
ITEM	DESCRIPTION	
MAIN SWITCH	63A C/B AMP - NON AUTO - DIN RAIL MOUNTED - 10kA - CLIPSAL OR EQUAL APPROVED	
COMBINED MINIATURE CIRCUIT BREAKER AND RESIDUAL CURRENT DEVICE (MCB/RCD)	20 AMP - DIN RAIL MOUNTED - TYPE A - C CURVE RCD - 30mA TRIPPING CURRENT - 10kA - 2 POLE TYPE - CLIPSAL OR EQUAL APPROVED (2 POLE REQUIRED TO ACHIEVE 10kA)	
MINIATURE CIRCUIT BREAKER (MCB)	6 AMP - DIN RAIL MOUNTED - 10kA - CLIPSAL OR APPROVED EQUAL	
NEUTRAL LINK	INSULATED BASE TYPE - 16mm ² TERMINALS - 1 MEN + 6 - 2 SCREW TYPE - 100 AMP RATING	
EARTH LINK	16mm ² TERMINALS - 1 MEN + 6 - 2 SCREW TYPE - 100 AMP RATING	
CONTACTOR	MINIMUM 20 AMP - AC3 - 2 POLE - 240V - DIN RAIL MOUNTED - SPRECHER & SCHUH OR EQUAL APPROVED	
PE CELL	NEMA OR APPROVED EQUIVALENT	
TERMINAL STRIP	15 AMP - INSULATED TYPE - 2 SCREW TYPE - CLIPSAL OR EQUAL APPROVED	

MAIN SWITCHBOARD & CONTROL PANEL ARRANGEMENTS (WITH KNOCK-ON SUPPLY) SCALE 1:25 (APPROX.)

- EARTH LINK

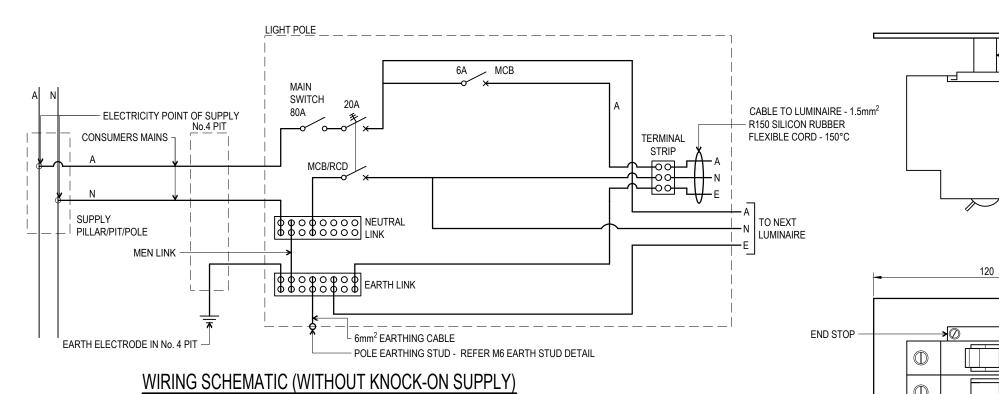
THE PURPOSE OF THIS STANDARD DRAWING IS TO PROVIDE TYPICAL DETAILS THAT SUPPORT THE DESIRED OUTCOMES OF THE BRISBANE CITY PLAN 2014 AND ASSOCIATED PLANNING SCHEME POLICIES. THE FITNESS FOR PURPOSE OF THIS STANDARD DRAWING FOR A SPECIFIC PROJECT SHOULD BE ASSESSED AND ACCEPTED BY AN APPROPRIATELY QUALIFIED DESIGNER AND/OR REGISTERED PROFESSIONAL ENGINEER OF QUEENSLAND (RPEQ).



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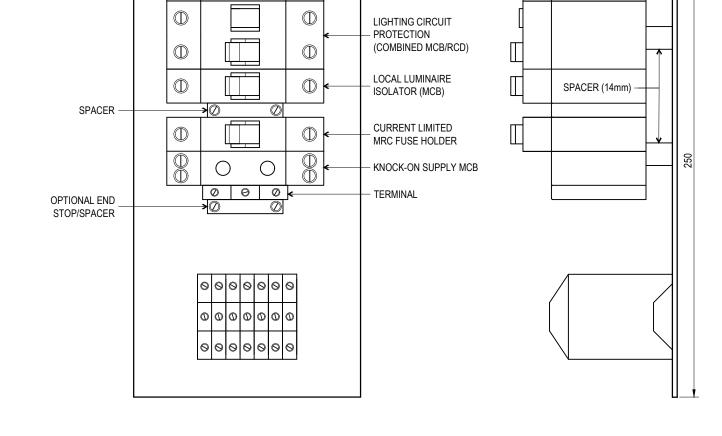
PEDESTRIAN LIGHTING - TYPE 1 MAIN SWITCHBOARD AND CONTROL PANEL

BRISBANE CITY COUNCIL STANDARD DRAWING SEP 2024 AS SHOWN RAWING NUMBER BSD-11001 ARRANGEMENT AND SCHEMATIC - SHEET 1 OF 2 ORIGINAL SIZE Α3



- 1. ELECTRICAL INSTALLATION SHALL COMPLY WITH AS/NZS.3000.
- 2. PE CELL IS TO BE INSTALLED IN 7-PIN NEMA RECEPTACLE.
- 3. THE ELECTRICAL CONDUIT INSTALLED PARALLEL TO THE PROPERTY BOUNDARY IS TO BE POSITIONED WITHIN THE 0 900mm UNDERGROUND ELECTRICITY ALIGNMENT WITH A MINIMUM CLEARANCE OF 100mm FROM OTHER ELECTRICAL CONDUITS, AND LOCATED ON THE ROADWAY SIDE OF THE 0 900mm UNDERGROUND ELECTRICITY ALIGNMENT. REFER TO BRISBANE CITY COUNCIL STANDARD DRAWINGS BSD-1013 TO BSD-1016 FOR FURTHER DETAILS.
- 4. ENDS OF CONDUITS ARE TO BE SEALED WITH SILICON OR SIMILAR SUITABLE SEALANT TO PREVENT INGRESS OF VERMIN
- 5. EXTERNAL BASE OF LIGHT POLE IS TO BE SEALED WITH MORTAR OR SIMILAR SUITABLE MATERIAL TO PREVENT INGRESS OF VERMIN.
- 6. ALL DIMENSIONS IN MILLIMETRES (U.N.O.).

EQUIPMENT LIST		
ITEM	DESCRIPTION	
MAIN SWITCH	63A C/B AMP - NON AUTO - DIN RAIL MOUNTED - 10kA - CLIPSAL OR EQUAL APPROVED	
COMBINED MINIATURE CIRCUIT BREAKER AND RESIDUAL CURRENT DEVICE (MCB/RCD)	20 AMP - DIN RAIL MOUNTED - TYPE A - C CURVE RCD - 30mA TRIPPING CURRENT - 10kA - 2 POLE TYPE - CLIPSAL OR EQUAL APPROVED (2 POLE REQUIRED TO ACHIEVE 10kA)	
MINIATURE CIRCUIT BREAKER (MCB)	6 AMP - DIN RAIL MOUNTED - 10kA - CLIPSAL OR APPROVED EQUAL	
NEUTRAL LINK	INSULATED BASE TYPE - 16mm ² TERMINALS - 1 MEN + 6 - 2 SCREW TYPE - 100 AMP RATING	
EARTH LINK	16mm ² TERMINALS - 1 MEN + 6 - 2 SCREW TYPE - 100 AMP RATING	
CONTACTOR	MINIMUM 20 AMP - AC3 - 2 POLE - 240V - DIN RAIL MOUNTED - SPRECHER & SCHUH OR EQUAL APPROVED	
PE CELL	NEMA OR APPROVED EQUIVALENT	
TERMINAL STRIP	15 AMP - INSULATED TYPE - 2 SCREW TYPE - CLIPSAL OR EQUAL APPROVED	



2.0mm THICK HOT DIPPED GALVANISED STEEL PLATE

2.0mm THICK HOT DIPPED GALVANISED STEEL PLATE

MAIN SWITCH (NON

AUTO)

SPACER (14mm)

DIN RAIL

MAIN SWITCHBOARD & CONTROL PANEL ARRANGEMENTS (WITH KNOCK-ON SUPPLY)

SCALE 1:25 (APPROX.)

THE PURPOSE OF THIS STANDARD DRAWING IS TO PROVIDE TYPICAL DETAILS THAT SUPPORT THE DESIRED OUTCOMES OF THE BRISBANE CITY PLAN 2014 AND ASSOCIATED PLANNING SCHEME POLICIES. THE FITNESS FOR PURPOSE OF THIS STANDARD DRAWING FOR A SPECIFIC PROJECT SHOULD BE ASSESSED AND ACCEPTED BY AN APPROPRIATELY QUALIFIED DESIGNER AND/OR REGISTERED PROFESSIONAL ENGINEER OF QUEENSLAND (RPEQ).

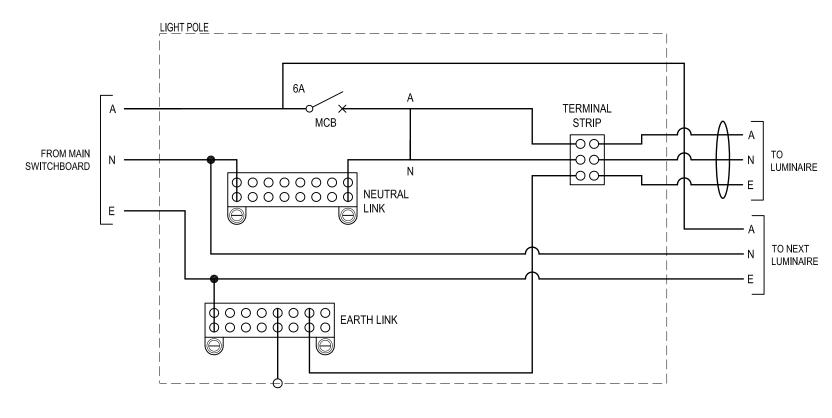


BRISBANE CITY COUNCIL STANDARD DRAWING

PEDESTRIAN LIGHTING - TYPE 2 MAIN SWITCHBOARD AND CONTROL PANEL ARRANGEMENT AND SCHEMATIC - SHEET 2 OF 2

	PUBLISH DATE		
i	·	2024	
	SCALE		
	AS SHOWN		
	DRAWING NUMBER		
	BSD-11001		
2	ORIGINAL SIZE	REVISION	
_	A3	С	

EQUIPMENT LIST		
ITEM DESCRIPTION		
MINIATURE CIRCUIT BREAKER (MCB) 6 AMP - DIN RAIL MOUNTED - 10kA - CLIPSAL OR EQUAL APPROVED		
NEUTRAL LINK INSULATED BASE TYPE - 16mm² TERMINALS - 1 MEN + 6 - 2 SCREW TYPE - 100 AMP RATING		
EARTH LINK 16mm² TERMINALS - 1 MEN + 6 - 2 SCREW TYPE - 100 AMP RATING		
TERMINAL STRIP	15 AMP - INSULATED TYPE - 2 SCREW TYPE - CLIPSAL OR EQUAL APPROVED	

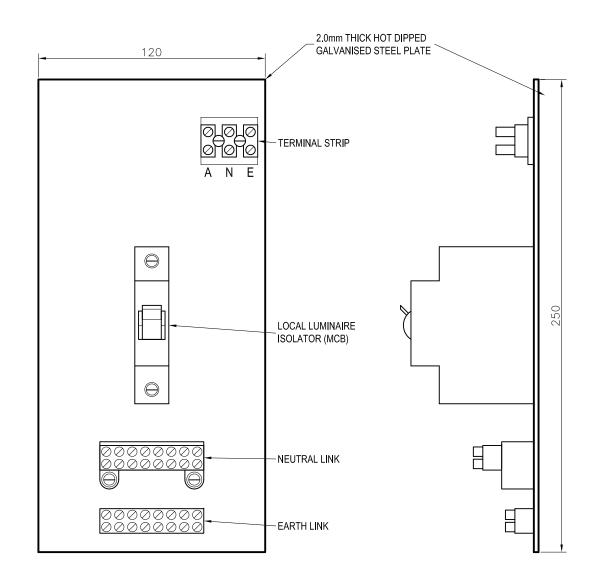


WIRING SCHEMATIC

NOT TO SCALE

NOTES

- 1. ELECTRICAL INSTALLATION SHALL COMPLY WITH AS/NZS.3000.
- 2. THE ELECTRICAL CONDUIT INSTALLED PARALLEL TO THE PROPERTY BOUNDARY IS TO BE POSITIONED WITHIN THE 0 900mm UNDERGROUND ELECTRICITY ALIGNMENT WITH A MINIMUM CLEARANCE OF 100mm FROM OTHER ELECTRICAL CONDUITS, AND LOCATED ON THE ROADWAY SIDE OF THE 0 900mm UNDERGROUND ELECTRICITY ALIGNMENT. REFER TO BRISBANE CITY COUNCIL STANDARD DRAWINGS BSD-1013 TO BSD-1016 FOR FURTHER DETAILS.
- 3. MAIN SWITCHBOARDS AND CONTROL PANELS CAN BE PURCHASED FROM BRISBANE CITY COUNCIL. CONTACT CITY LIGHTING SECTION ON TELEPHONE No. 07 3027 4404 TO ARRANGE.
- 4. ENDS OF CONDUITS ARE TO BE SEALED WITH SILICON OR SIMILAR SUITABLE SEALANT TO PREVENT INGRESS OF VERMIN.
- 5. EXTERNAL BASE OF LIGHT POLE IS TO BE SEALED WITH MORTAR OR SIMILAR SUITABLE MATERIAL TO PREVENT INGRESS OF VERMIN.
- 6. ALL DIMENSIONS IN MILLIMETRES (U.N.O.).



CONTROL PANEL ARRANGEMENT

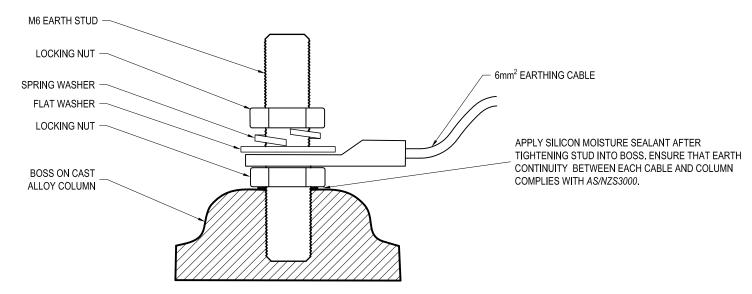
SCALE 1:25 (APPROX.)



BRISBANE CITY COUNCIL STANDARD DRAWING

PEDESTRIAN LIGHTING
CONTROL PANEL
ARRANGEMENT AND SCHEMATIC

)	PUBL I SH DATE		
G	NOV	2019	
	SCALE		
	AS SH	HOWN	
	DRAWING NUMBER		
	BSD-11002		
	ORIGINAL SIZE	REVISION	
	A 3	В	



NOTE: ALL FASTENERS TO BE GRADE 316 STAINLESS STEEL.

M6 EARTH STUD DETAIL FOR PEDESTRIAN LIGHT POLE

NOT TO SCALE

LIGHTING SITE COMPONENT SCHEDULE			
EQUIPMENT	SYMBOL	TYPE	DESCRIPTION
SUPPORT STRUCTURE		А	AS PER BSD-11004
CONTROL PANEL ARRANGEMENT			SINGLE SITE CONTROL ARRANGEMENT COMPLETE WITH ALLOWANCE FOR INDEPENDENT SWITCHING, MOUNT IN BASE OF LIGHT POLE.
MAIN SWITCHBOARD AND CONTROL PANEL ARRANGEMENT			MULTI SITE CONTROL ARRANGEMENT COMPLETE WITH ALLOWANCE FOR INDEPENDENT SWITCHING. MOUNT IN BASE OF LIGHT POLE
LUMINAIRE FITTING		L	AS PER BSD-11004



BRISBANE CITY COUNCIL STANDARD DRAWING

PEDESTRIAN LIGHTING M6 EARTHING STUD DETAIL AND LIGHT SITE COMPONENT SCHEDULE

NOV 2019 AS SHOWN DRAWING NUMBER

BSD-11003

A3

LED LUMINAIRE (INCORPORATING A 7 PIN NEMA RECEPTACLE AND NEMA PE CELL)

MAXIMUM WEIGHT: 8.4kg

MAXIMUM WIND CATCHING AREA: 0.13m²

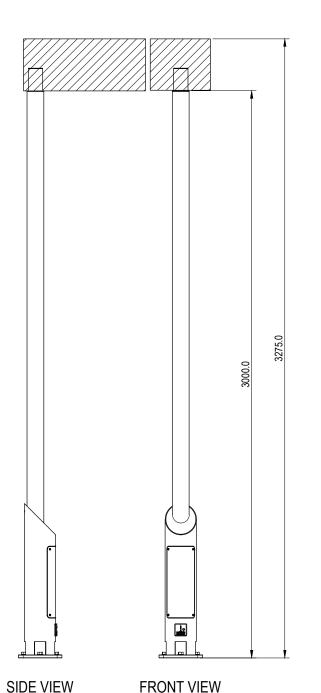
MAXIMUM HEIGHT: 275mm

TO ENSURE THAT THE LIGHT POLE CAN BE SAFELY MOUNTED ON EXISTING

TOTAL MAXIMUM HEIGHT OF PEDESTRIAN LIGHT POLE AND LUMINAIRE TO NOT EXCEED 3275mm.

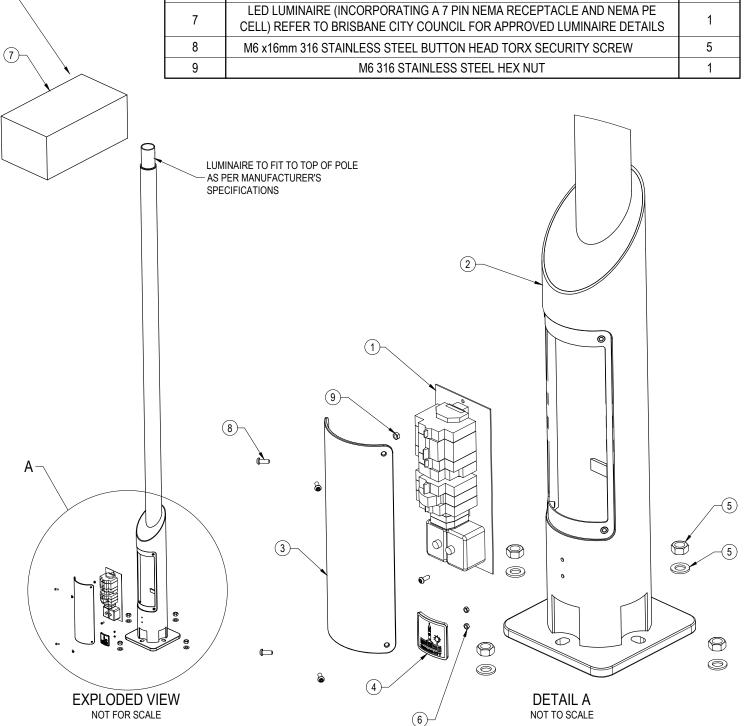
FOR NEW INSTALLATIONS REFER TO SHEET 7 (BSD-11004). WHEN MOUNTING TO

EXISTING FOOTINGS, REFER TO SHEET 8 (BSD-11004).



EQUIPMENT LIST

ITEM NO.	DESCRIPTION	QTY.
1	MAIN SWITCHBOARD AND CONTROL PANEL ARRANGEMENT AND SCHEMATIC (BSD-11001)	1
2	3 METRE LIGHT POLE MAIN BODY	1
3	LIGHT POLE ACCESS HATCH	1
4	LIGHT POLE CURVED LOGO BADGE	1
5	M16 316 STAINLESS STEEL NUT AND WASHER	4
6	M5 316 STAINLESS STEEL HEX NUT	2
7	LED LUMINAIRE (INCORPORATING A 7 PIN NEMA RECEPTACLE AND NEMA PE CELL) REFER TO BRISBANE CITY COUNCIL FOR APPROVED LUMINAIRE DETAILS	1
8	M6 x16mm 316 STAINLESS STEEL BUTTON HEAD TORX SECURITY SCREW	5
9	M6 316 STAINLESS STEEL HEX NUT	1



STANDARDS

DESIGNED IN ACCORDANCE WITH, FABRICATED AND INSTALLED TO MEET THE FOLLOWING STANDARDS:

- 1. AS1428.4.1 TACTILE GROUND SURFACE INDICATORS FOR THE ORIENTATION OF PEOPLE WITH VISION IMPAIRMENT.
- 2. AUSTROADS GUIDE TO ROAD DESIGN, PART 6B: ROADSIDE **ENVIRONMENT**
- 3. AS1158.3.1 ROAD LIGHTING, PART 3.1: PEDESTRIAN AREA (CATEGORY P) LIGHTING - PERFORMANCE AND INSTALLATION DESIGN REQUIREMENTS.
- 4. AS1627.4 METAL FINISHING PREPARATION AND PRE-TREATMENT OF SURFACES - ABRASIVE BLAST CLEANING OF STEEL
- 5. AS2312/AMDT 1 GUIDE TO PROTECTION OF IRON AND STEEL AGAINST EXTERIOR ATMOSPHERIC CORROSION.
- 6. AS4680 HOT DIP GALVANISING.
- 7. AS4506 METAL FINISHING-THERMOSET POWDER COATINGS.
- 8. AS/NZS3000 ELECTRICAL INSTALLATIONS

NOTES:

PART SHOULD BE SUPPLIED CLEAN AND FREE FROM MARKS. BURRS. SCUFFS, DISTORTION AND WARPAGE.

- 1. ALL TOLERANCES ± 1.5mm UNLESS OTHERWISE SPECIFIED.
- 2. DRAWING TO AS1100 DRAWING STANDARDS.
- 3. WELDING TO BE IN ACCORDANCE WITH AS1554.1 CAT GP WELDING, ALL SHARP EDGES & BURRS REMOVED.
- 4. POWDER COATING TO BE IN ACCORDANCE TO AS4506 EXTERNAL EXPOSURE STANDARD WITH PRE-TREATMENT SAND BLAST, ZINC PHOSPHATE, ETC.
- 5. ENSURE ANTI-SEIZE IS ON ALL NUTS AND BOLTS PRIOR TO ASSEMBLY.
- 6. 316 S.S. AND 316 S.S. FASTENERS TO BE USED THROUGHOUT FOR COASTAL INSTALLATIONS OR ANY ENVIRONMENT WITH HIGH
- 7. ANY DESIGN AMENDMENTS THAT DIFFER FROM THESE DRAWINGS, INCLUDING LUMINAIRE OR OTHER POLE LOADING REQUIREMENTS WILL REQUIRE CERTIFICATION FROM A SUITABLY QUALIFIED ENGINEER.

MATERIALS

- 1. MATERIAL: SEE COMPONENT DRAWING
- 2. COLOUR:

LED LUMINAIRE - RAL 7010 TARPAULIN GREY OR APPROVED EQUIVALENT.

LIGHT POLE - DULUX METROPOLIS STORM PEARL OR APPROVED EQUIVALENT.

3. FINISH: HOT DIP GALVANISED AND POWDER COATED

DESIGN NOTES:

- STRUCTURAL ELEMENTS DESIGNED FOR THE FOLLOWING WIND
- LOCATION AND WIND:CITY OF BRISBANE. REGION B, ULTIMATE VR: 57 m/s, SERVICEABILITY VR: 39m/s
- COMPONENTS CERTIFIED: MAIN STRUCTURE
- SHOULD CONDITIONS VARY FROM THOSE DESCRIBED, SEEK PROFESSIONAL ENGINEERING ADVICE.
- LED LUMINAIRE, ACCESS HATCH, LOGO BADGE AND MAIN BODY ASSEMBLY AS PER MANUFACTURER'S SPECIFICATIONS.
- ORIGINAL CERTIFICATION SHALL NOT BE CONSTRUED AS RELIEVING ANY OTHER PARTY OR THEIR RESPONSIBILITIES. LIABILITIES OR CONTRACTUAL OBLIGATIONS.

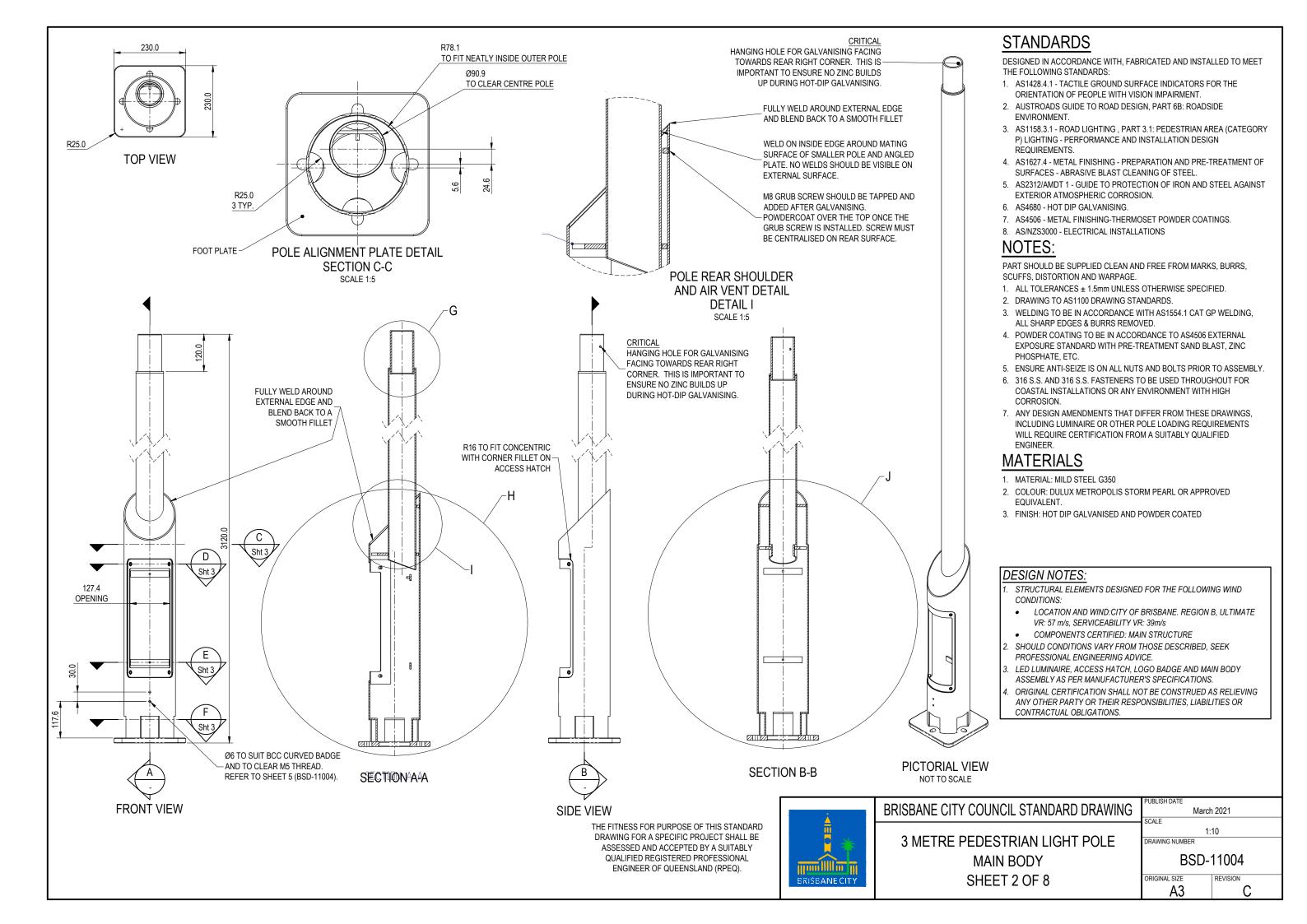
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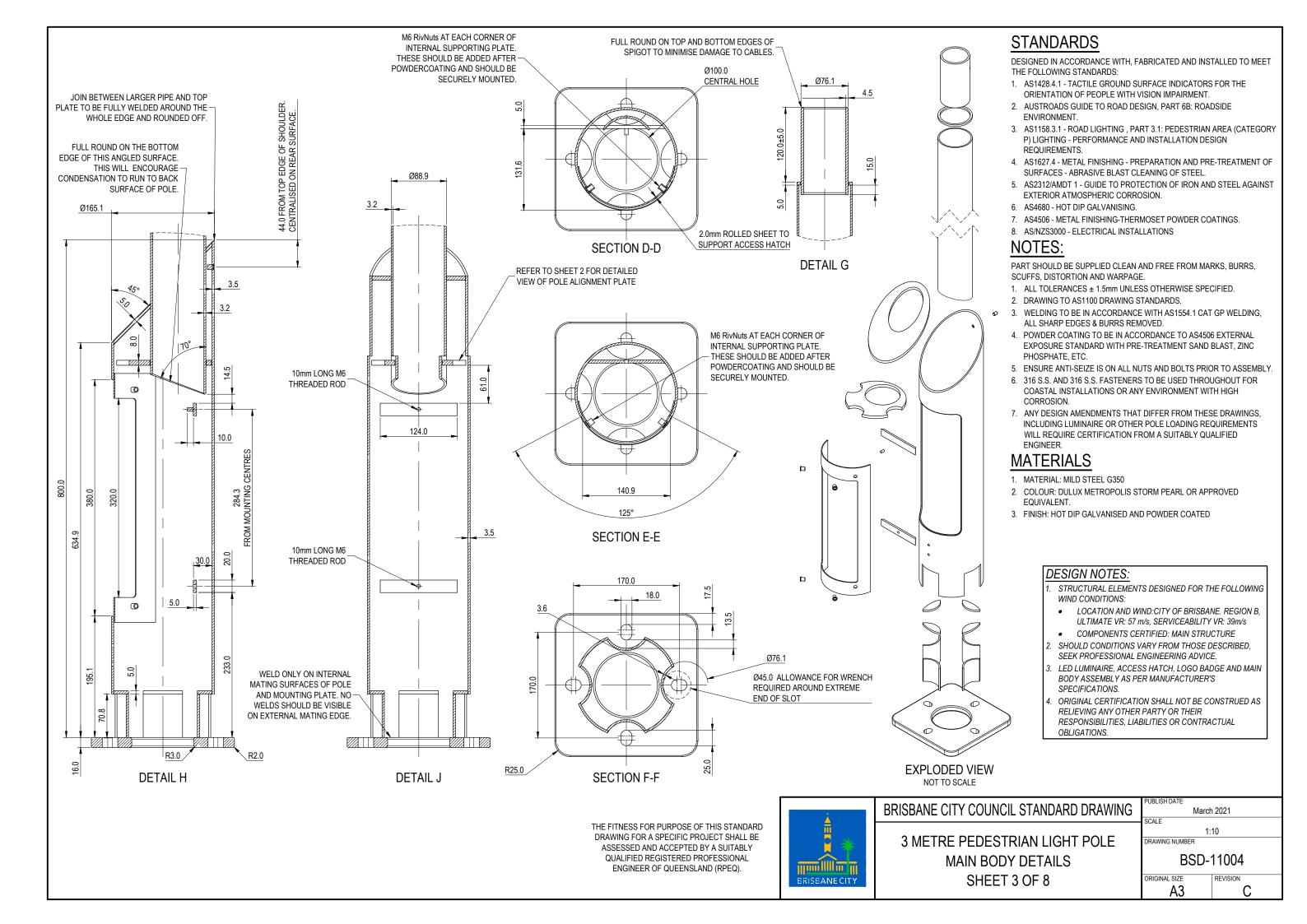


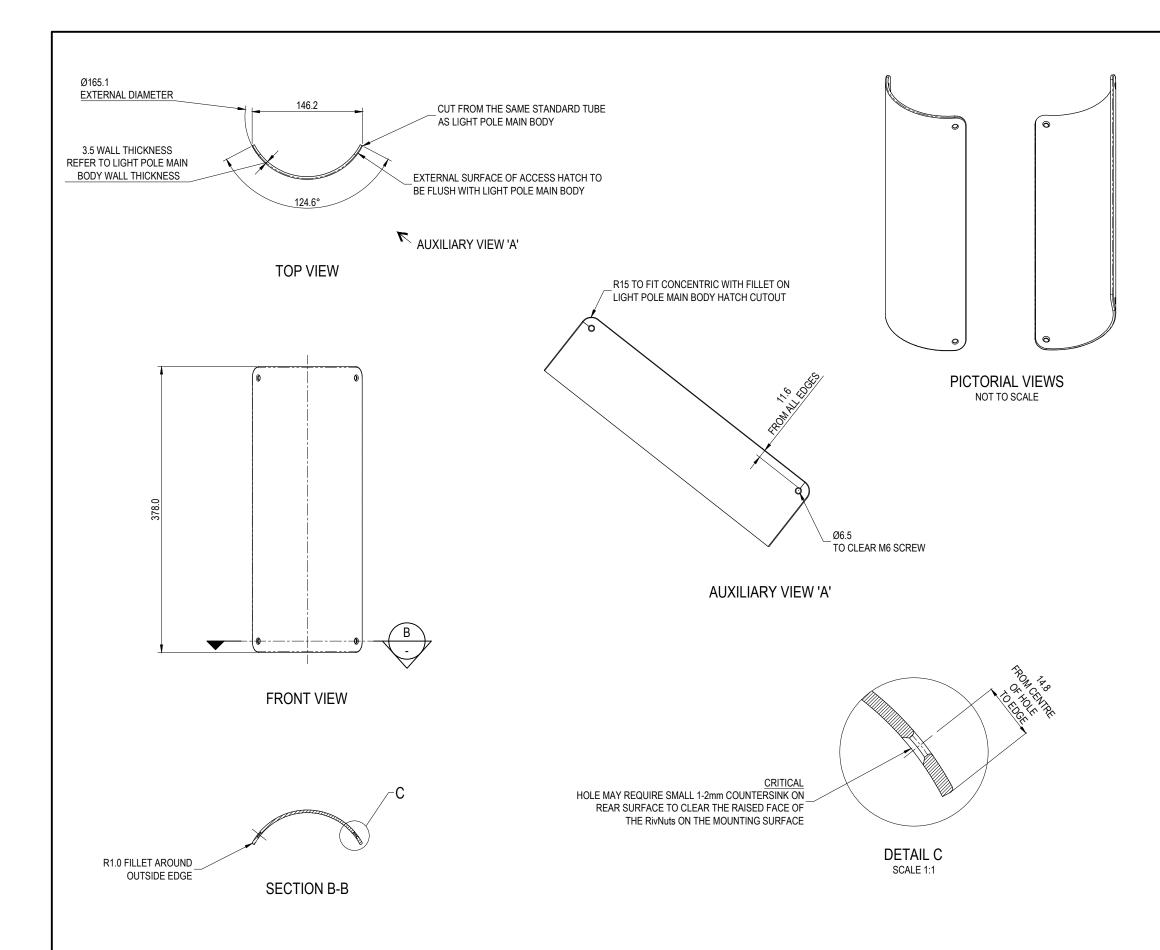
BRISBANE CITY COUNCIL STANDARD DRAWING

3 METRE PEDESTRIAN LIGHT POLE MAIN ASSEMBLY SHEET 1 OF 8

March 2021 NOT TO SCALE BSD-11004 ORIGINAL SIZE







DESIGNED IN ACCORDANCE WITH, FABRICATED AND INSTALLED TO MEET THE FOLLOWING STANDARDS:

- AS1428.4.1 TACTILE GROUND SURFACE INDICATORS FOR THE ORIENTATION OF PEOPLE WITH VISION IMPAIRMENT.
- 2. AUSTROADS GUIDE TO ROAD DESIGN, PART 6B: ROADSIDE ENVIRONMENT.
- AS1158.3.1 ROAD LIGHTING, PART 3.1: PEDESTRIAN AREA (CATEGORY P) LIGHTING - PERFORMANCE AND INSTALLATION DESIGN REQUIREMENTS.
- 4. AS1627.4 METAL FINISHING PREPARATION AND PRE-TREATMENT OF SURFACES ABRASIVE BLAST CLEANING OF STEEL.
- AS2312/AMDT 1 GUIDE TO PROTECTION OF IRON AND STEEL AGAINST EXTERIOR ATMOSPHERIC CORROSION.
- 6. AS4680 HOT DIP GALVANISING.
- 7. AS4506 METAL FINISHING-THERMOSET POWDER COATINGS.
- 8. AS/NZS3000 ELECTRICAL INSTALLATIONS

NOTES:

PART SHOULD BE SUPPLIED CLEAN AND FREE FROM MARKS, BURRS, SCUFFS, DISTORTION AND WARPAGE.

- 1. ALL TOLERANCES ± 1.5mm UNLESS OTHERWISE SPECIFIED.
- 2. DRAWING TO AS1100 DRAWING STANDARDS.
- 3. WELDING TO BE IN ACCORDANCE WITH AS1554.1 CAT GP WELDING, ALL SHARP EDGES & BURRS REMOVED.
- POWDER COATING TO BE IN ACCORDANCE TO AS4506 EXTERNAL EXPOSURE STANDARD WITH PRE-TREATMENT SAND BLAST, ZINC PHOSPHATE, ETC.
- 5. ENSURE ANTI-SEIZE IS ON ALL NUTS AND BOLTS PRIOR TO ASSEMBLY.
- 316 S.S. AND 316 S.S. FASTENERS TO BE USED THROUGHOUT FOR COASTAL INSTALLATIONS OR ANY ENVIRONMENT WITH HIGH CORROSION.
- 7. ANY DESIGN AMENDMENTS THAT DIFFER FROM THESE DRAWINGS, INCLUDING LUMINAIRE OR OTHER POLE LOADING REQUIREMENTS WILL REQUIRE CERTIFICATION FROM A SUITABLY QUALIFIED ENGINEER.

MATERIALS

- 1. MATERIAL: MILD STEEL G350
- 2. COLOUR: DULUX METROPOLIS STORM PEARL OR APPROVED EQUIVALENT.
- 3. FINISH: HOT DIP GALVANISED AND POWDER COATED

DESIGN NOTES:

- STRUCTURAL ELEMENTS DESIGNED FOR THE FOLLOWING WIND CONDITIONS:
- LOCATION AND WIND:CITY OF BRISBANE. REGION B, ULTIMATE VR: 57 m/s, SERVICEABILITY VR: 39m/s
- COMPONENTS CERTIFIED: MAIN STRUCTURE
- 2. SHOULD CONDITIONS VARY FROM THOSE DESCRIBED, SEEK PROFESSIONAL ENGINEERING ADVICE.
- 3. LED LUMINAIRE, ACCESS HATCH, LOGO BADGE AND MAIN BODY ASSEMBLY AS PER MANUFACTURER'S SPECIFICATIONS.
- 4. ORIGINAL CERTIFICATION SHALL NOT BE CONSTRUED AS RELIEVING ANY OTHER PARTY OR THEIR RESPONSIBILITIES, LIABILITIES OR CONTRACTUAL OBLIGATIONS.

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ORIGINAL SIZE

A3

THE FITNESS FOR PURPOSE OF THIS STANDARD DRAWING FOR A SPECIFIC PROJECT SHALL BE ASSESSED AND ACCEPTED BY A SUITABLY QUALIFIED REGISTERED PROFESSIONAL ENGINEER OF QUEENSLAND (RPEQ).



BRISBANE CITY COUNCIL STANDARD DRAWING

3 METRE PEDESTRIAN LIGHT POLE
ACCESS HATCH
SHEET 4 OF 8

PUBLISH DATE

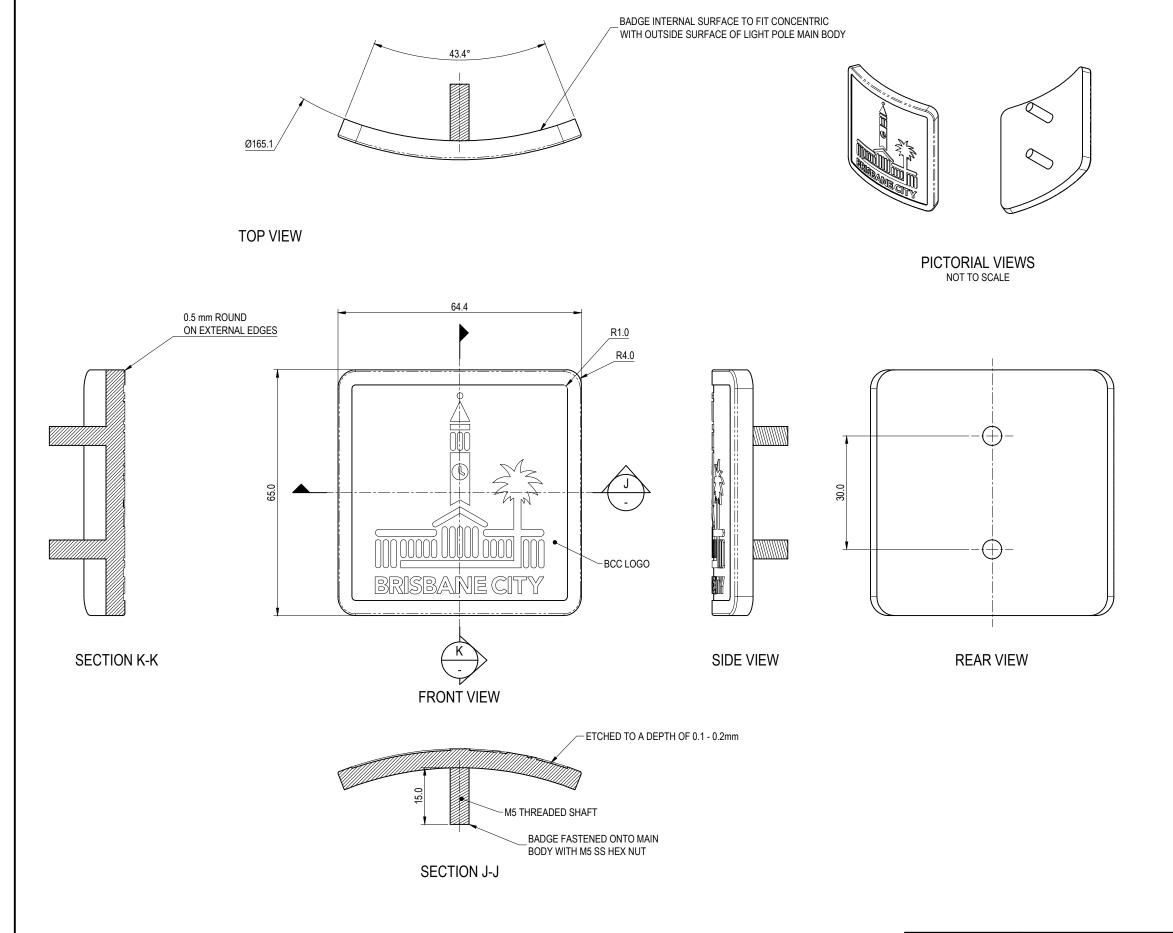
March 2021

SCALE

1:10

DRAWING NUMBER

BSD-11004



DESIGNED IN ACCORDANCE WITH, FABRICATED AND INSTALLED TO MEET THE FOLLOWING STANDARDS:

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- AS2312/AMDT 1 GUIDE TO PROTECTION OF IRON AND STEEL AGAINST EXTERIOR ATMOSPHERIC CORROSION.
- 6. AS4680 HOT DIP GALVANISING.
- 7. AS4506 METAL FINISHING-THERMOSET POWDER COATINGS.
- 8. AS/NZS3000 ELECTRICAL INSTALLATIONS

NOTES:

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- 2. DRAWING TO AS1100 DRAWING STANDARDS.
- 3. WELDING TO BE IN ACCORDANCE WITH AS1554.1 CAT GP WELDING, ALL SHARP EDGES & BURRS REMOVED.
- POWDER COATING TO BE IN ACCORDANCE TO AS4506 EXTERNAL EXPOSURE STANDARD WITH PRE-TREATMENT SAND BLAST, ZINC PHOSPHATE, ETC.
- 5. ENSURE ANTI-SEIZE IS ON ALL NUTS AND BOLTS PRIOR TO ASSEMBLY.
- 6. 316 S.S. AND 316 S.S. FASTENERS TO BE USED THROUGHOUT FOR COASTAL INSTALLATIONS OR ANY ENVIRONMENT WITH HIGH CORROSION.
- ANY DESIGN AMENDMENTS THAT DIFFER FROM THESE DRAWINGS, INCLUDING LUMINAIRE OR OTHER POLE LOADING REQUIREMENTS WILL REQUIRE CERTIFICATION FROM A SUITABLY QUALIFIED ENGINEER.

MATERIALS

- 1. MATERIAL: 316 STAINLESS STEEL
- 2. COLOUR: NATURAL
- 3. FINISH: GARNET BLAST

DESIGN NOTES:

- . STRUCTURAL ELEMENTS DESIGNED FOR THE FOLLOWING WIND CONDITIONS:
- LOCATION AND WIND:CITY OF BRISBANE. REGION B, ULTIMATE VR: 57 m/s, SERVICEABILITY VR: 39m/s
- COMPONENTS CERTIFIED: MAIN STRUCTURE
- 2. SHOULD CONDITIONS VARY FROM THOSE DESCRIBED, SEEK PROFESSIONAL ENGINEERING ADVICE.
- 3. LED LUMINAIRE, ACCESS HATCH, LOGO BADGE AND MAIN BODY ASSEMBLY AS PER MANUFACTURER'S SPECIFICATIONS.
- 4. ORIGINAL CERTIFICATION SHALL NOT BE CONSTRUED AS RELIEVING ANY OTHER PARTY OR THEIR RESPONSIBILITIES, LIABILITIES OR CONTRACTUAL OBLIGATIONS.

ORIGINAL SIZE

A3

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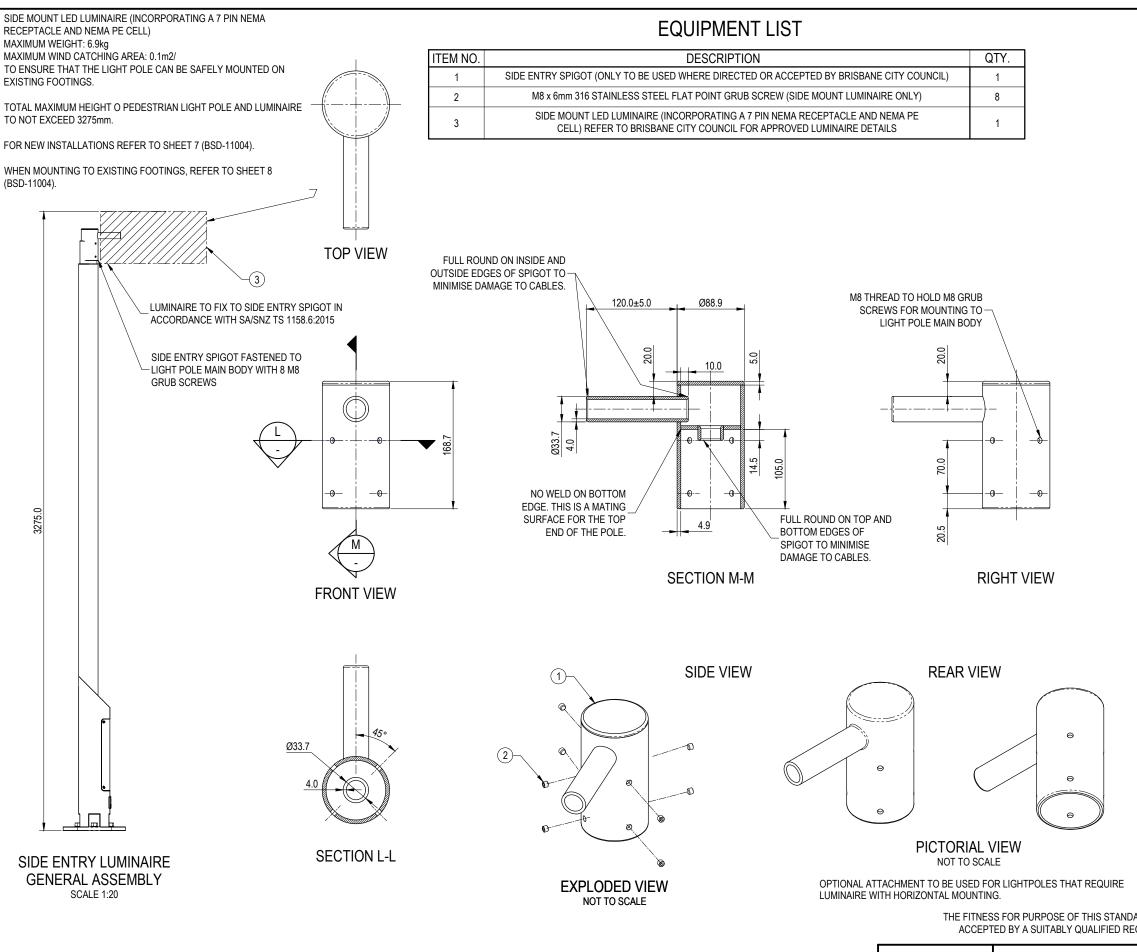


BRISBANE CITY COUNCIL STANDARD DRAWING

3 METRE PEDESTRIAN LIGHT POLE CURVED LOGO BADGE SHEET 5 OF 8

PUBLISH DATE
March 2021
SCALE
1:1
DRAWING NUMBER
BSD-11004

REVISION



DESIGNED IN ACCORDANCE WITH, FABRICATED AND INSTALLED TO MEET THE FOLLOWING STANDARDS:

- AS1428.4.1 TACTILE GROUND SURFACE INDICATORS FOR THE ORIENTATION OF PEOPLE WITH VISION IMPAIRMENT.
- AUSTROADS GUIDE TO ROAD DESIGN, PART 6B: ROADSIDE ENVIRONMENT
- AS1158.3.1 ROAD LIGHTING, PART 3.1: PEDESTRIAN AREA (CATEGORY P) LIGHTING - PERFORMANCE AND INSTALLATION DESIGN REQUIREMENTS.
- AS1627.4 METAL FINISHING PREPARATION AND PRE-TREATMENT OF SURFACES - ABRASIVE BLAST CLEANING OF STEEL.
- AS2312/AMDT 1 GUIDE TO PROTECTION OF IRON AND STEEL AGAINST EXTERIOR ATMOSPHERIC CORROSION.
- 6. AS4680 HOT DIP GALVANISING.
- 7. AS4506 METAL FINISHING-THERMOSET POWDER COATINGS.
- 8. AS/NZS3000 ELECTRICAL INSTALLATIONS

NOTES:

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- 1. ALL TOLERANCES ± 1.5mm UNLESS OTHERWISE SPECIFIED.
- 2. DRAWING TO AS1100 DRAWING STANDARDS.
- WELDING TO BE IN ACCORDANCE WITH AS1554.1 CAT GP WELDING, ALL SHARP EDGES & BURRS REMOVED.
- POWDER COATING TO BE IN ACCORDANCE TO AS4506 EXTERNAL EXPOSURE STANDARD WITH PRE-TREATMENT SAND BLAST, ZINC PHOSPHATE, ETC.
- 5. ENSURE ANTI-SEIZE IS ON ALL NUTS AND BOLTS PRIOR TO ASSEMBLY.
- 316 S.S. AND 316 S.S. FASTENERS TO BE USED THROUGHOUT FOR COASTAL INSTALLATIONS OR ANY ENVIRONMENT WITH HIGH CORROSION.
- ANY DESIGN AMENDMENTS THAT DIFFER FROM THESE DRAWINGS, INCLUDING LUMINAIRE OR OTHER POLE LOADING REQUIREMENTS WILL REQUIRE CERTIFICATION FROM A SUITABLY QUALIFIED FNGINFER

MATERIALS

- 1. MATERIAL: MILD STEEL G350
- 2. COLOUR:

LED LUMINAIRE - RAL 7010 TARPAULIN GREY OR APPROVED EQUIVALENT.

LIGHT POLE AND SPIGOT - DULUX METROPOLIS STORM PEARL OR APPROVED EQUIVALENT.

3. FINISH: HOT DIP GALVANISED AND POWDER COATED

DESIGN NOTES:

- . STRUCTURAL ELEMENTS DESIGNED FOR THE FOLLOWING WIND CONDITIONS:
- LOCATION AND WIND:CITY OF BRISBANE. REGION B, ULTIMATE VR: 57 m/s, SERVICEABILITY VR: 39m/s
- COMPONENTS CERTIFIED: MAIN STRUCTURE
- SHOULD CONDITIONS VARY FROM THOSE DESCRIBED, SEEK PROFESSIONAL ENGINEERING ADVICE.
- LED LUMINAIRE, ACCESS HATCH, LOGO BADGE AND MAIN BODY ASSEMBLY AS PER MANUFACTURER'S SPECIFICATIONS.
- 4. ORIGINAL CERTIFICATION SHALL NOT BE CONSTRUED AS RELIEVING ANY OTHER PARTY OR THEIR RESPONSIBILITIES, LIABILITIES OR CONTRACTUAL OBLIGATIONS.

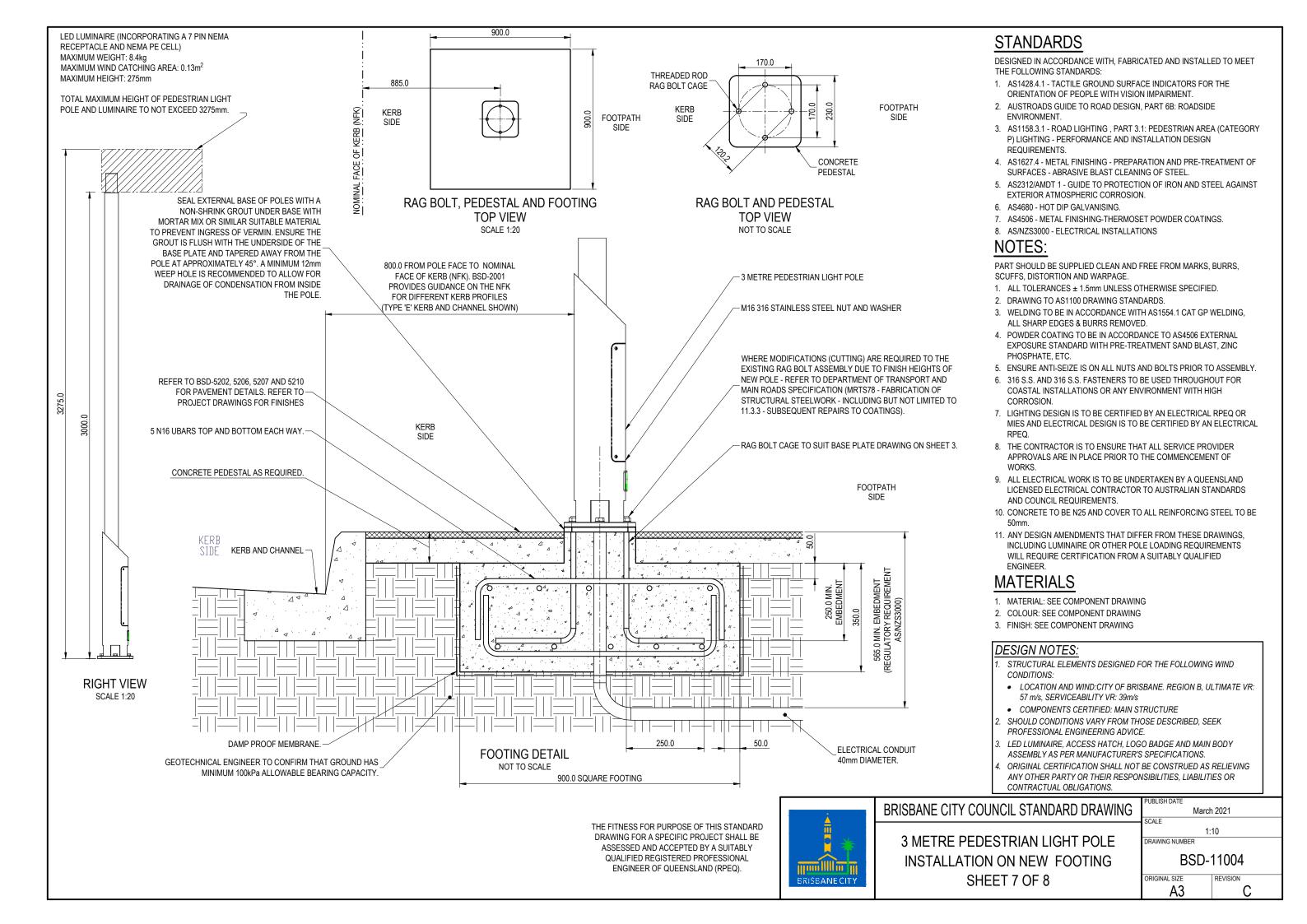
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BRISBANE CITY COUNCIL STANDARD DRAWING

3 METRE PEDESTRIAN LIGHT POLE ALTERNATIVE SIDE ENTRY SHEET 6 OF 8

((((((((((((((((((((
	PUBLISH DATE			
ì	March 2021			
	SCALE			
	1:5			
	DRAWING NUMBER			
	BSD-11004			
	ORIGINAL SIZE	REVISION		



STRUCTURAL NOTE: LED LUMINAIRE (INCORPORATING A 7 PIN NEMA THE NEW POLE DESIGN IS OF SIMILAR HEIGHT, MASS AND WIND LOADING TO THE ORIGINAL POLE (REFER TO RECEPTACLE AND NEMA PE CELL) DRAWING FD-0006-1: WITH A MAXIMUM HEIGHT OF 3110mm). THEREFORE IT IS CONSIDERED THAT THE NEW POLE CAN MAXIMUM WEIGHT: 8.4kg BE MOUNTED ONTO FOOTING THAT WERE CERTIFIED FOR THE ORIGINAL POLE (WHERE RESPONSIBILITY FOR THE MAXIMUM WIND CATCHING AREA: 0.13m² STRUCTURAL INTEGRITY AND STRENGTH OF PREVIOUSLY CERTIFIED FOOTINGS REMAINING WITH THE ORIGINAL MAXIMUM HEIGHT: 275mm CERTIFYING ENGINEERS). THIS OFFICE ASSUMES NO RESPONSIBILITY FOR THE DESIGN AND PERFORMANCE OF THE EXISTING FOOTING. IT IS TOTAL MAXIMUM HEIGHT OF PEDESTRIAN LIGHT POLE THE RESPONSIBILITY OF THE BUILDER TO ENSURE THAT THE EXISTING FOOTINGS ARE FREE FROM STRUCTURAL AND LUMINAIRE TO NOT EXCEED 3275mm. CRACKS ETC. AND WITHIN THE BUILDING DEFECTS TOLERANCE LIMITS. ALL EXISTING FOOTINGS THAT CANNOT BE SUFFICIENTLY TESTED FOR STRENGTH MUST USE THE NEW, REDESIGNED FOOTING. FOR NEW INSTALLATIONS REFER TO SHEET 7(BSD-11004) **DESIGN NOTES:** STRUCTURAL ELEMENTS DESIGNED FOR THE FOLLOWING WIND LOCATION AND WIND:CITY OF BRISBANE. REGION B, ULTIMATE VR: 57 m/s. SERVICEABILITY VR: 39m/s COMPONENTS CERTIFIED: MAIN STRUCTURE SHOULD CONDITIONS VARY FROM THOSE DESCRIBED, SEEK PROFESSIONAL ENGINEERING ADVICE. LED LUMINAIRE, ACCESS HATCH, LOGO BADGE AND MAIN BODY ASSEMBLY AS PER MANUFACTURER'S SPECIFICATIONS. ORIGINAL CERTIFICATION SHALL NOT BE CONSTRUED AS RELIEVING ANY OTHER PARTY OR THEIR RESPONSIBILITIES. LIABILITIES OR CONTRACTUAL OBLIGATIONS. SEAL EXTERNAL BASE OF POLES WITH A NON-SHRINK GROUT - 3 METRE PEDESTRIAN LIGHT POLE. UNDER BASE WITH MORTAR MIX OR SIMILAR SUITABLE MATERIAL TO PREVENT INGRESS OF VERMIN. ENSURE THE GROUT IS FLUSH WITH THE UNDERSIDE OF THE BASE PLATE AND TAPERED AWAY FROM THE POLE AT APPROXIMATELY 45°. A MINIMUM 12mm WEEP HOLE IS RECOMMENDED TO ALLOW FOR DRAINAGE OF WHERE MODIFICATIONS (CUTTING) ARE REQUIRED TO THE CONDENSATION FROM INSIDE THE POLE. EXISTING RAG BOLT ASSEMBLY DUE TO FINISH HEIGHTS OF NEW POLE - REFER TO DEPARTMENT OF TRANSPORT AND MAIN ROADS SPECIFICATION (MRTS78 - FABRICATION OF STRUCTURAL STEELWORK - INCLUDING BUT NOT LIMITED TO 11.3.3 - SUBSEQUENT REPAIRS TO COATINGS). REFER TO BSD-5202, 5206, 5207 AND 5210 FOR PAVEMENT DETAILS. REFER TO PROJECT DRAWINGS FOR FINISHES EXISTING FOOTING. -M16 316 STAINLESS STEEL NUT AND WASHER. REFER TO SUPERSEDED DRAWING UMS 594 FOR DETAIL (ACCESSIBLE ON BRISBANE CITY COUNCIL WEBSTER). **RIGHT VIEW FOOTING DETAIL SCALE 1:20** NOT TO SCALE THE FITNESS FOR PURPOSE OF THIS STANDARD

THE FITNESS FOR PURPOSE OF THIS STANDARD DRAWING FOR A SPECIFIC PROJECT SHALL BE ASSESSED AND ACCEPTED BY A SUITABLY QUALIFIED REGISTERED PROFESSIONAL ENGINEER OF QUEENSLAND (RPEQ).



BRISBANE CITY COUNCIL STANDARD DRAWING

STANDARDS

ENVIRONMENT

REQUIREMENTS

NOTES:

THE FOLLOWING STANDARDS:

DESIGNED IN ACCORDANCE WITH, FABRICATED AND INSTALLED TO MEET

3. AS1158.3.1 - ROAD LIGHTING, PART 3.1: PEDESTRIAN AREA (CATEGORY

4. AS1627.4 - METAL FINISHING - PREPARATION AND PRE-TREATMENT OF

5. AS2312/AMDT 1 - GUIDE TO PROTECTION OF IRON AND STEEL AGAINST

1. AS1428.4.1 - TACTILE GROUND SURFACE INDICATORS FOR THE

P) LIGHTING - PERFORMANCE AND INSTALLATION DESIGN

7. AS4506 - METAL FINISHING-THERMOSET POWDER COATINGS.

PART SHOULD BE SUPPLIED CLEAN AND FREE FROM MARKS, BURRS,

3. WELDING TO BE IN ACCORDANCE WITH AS1554.1 CAT GP WELDING,

 POWDER COATING TO BE IN ACCORDANCE TO A\$4506 EXTERNAL EXPOSURE STANDARD WITH PRE-TREATMENT SAND BLAST, ZINC

 ENSURE ANTI-SEIZE IS ON ALL NUTS AND BOLTS PRIOR TO ASSEMBLY.
 316 S.S. AND 316 S.S. FASTENERS TO BE USED THROUGHOUT FOR COASTAL INSTALLATIONS OR ANY ENVIRONMENT WITH HIGH

7. LIGHTING DESIGN IS TO BE CERTIFIED BY AN ELECTRICAL RPEQ OR

8. THE CONTRACTOR IS TO ENSURE THAT ALL SERVICE PROVIDER

APPROVALS ARE IN PLACE PRIOR TO THE COMMENCEMENT OF

9. ALL ELECTRICAL WORK IS TO BE UNDERTAKEN BY A QUEENSLAND

LICENSED ELECTRICAL CONTRACTOR TO AUSTRALIAN STANDARDS

10. CONCRETE TO BE N25 AND COVER TO ALL REINFORCING STEEL TO BE

11. ANY DESIGN AMENDMENTS THAT DIFFER FROM THESE DRAWINGS.

WILL REQUIRE CERTIFICATION FROM A SUITABLY QUALIFIED

INCLUDING LUMINAIRE OR OTHER POLE LOADING REQUIREMENTS

MIES AND ELECTRICAL DESIGN IS TO BE CERTIFIED BY AN ELECTRICAL

1. ALL TOLERANCES ± 1.5mm UNLESS OTHERWISE SPECIFIED.

ORIENTATION OF PEOPLE WITH VISION IMPAIRMENT.

2. AUSTROADS GUIDE TO ROAD DESIGN, PART 6B: ROADSIDE

SURFACES - ABRASIVE BLAST CLEANING OF STEEL

EXTERIOR ATMOSPHERIC CORROSION.

6. AS4680 - HOT DIP GALVANISING.

8. AS/NZS3000 - ELECTRICAL INSTALLATIONS

2. DRAWING TO AS1100 DRAWING STANDARDS.

ALL SHARP EDGES & BURRS REMOVED.

SCUFFS, DISTORTION AND WARPAGE.

AND COUNCIL REQUIREMENTS.

MATERIAL: SEE COMPONENT DRAWING
 COLOUR: SEE COMPONENT DRAWING
 FINISH: SEE COMPONENT DRAWING

PHOSPHATE ETC

RPEQ.

ENGINEER.

MATERIALS

3 METRE PEDESTRIAN LIGHT POLE INSTALLATION ON EXISTING FOOTING SHEET 8 OF 8 PUBLISH DATE

March 2021

SCALE

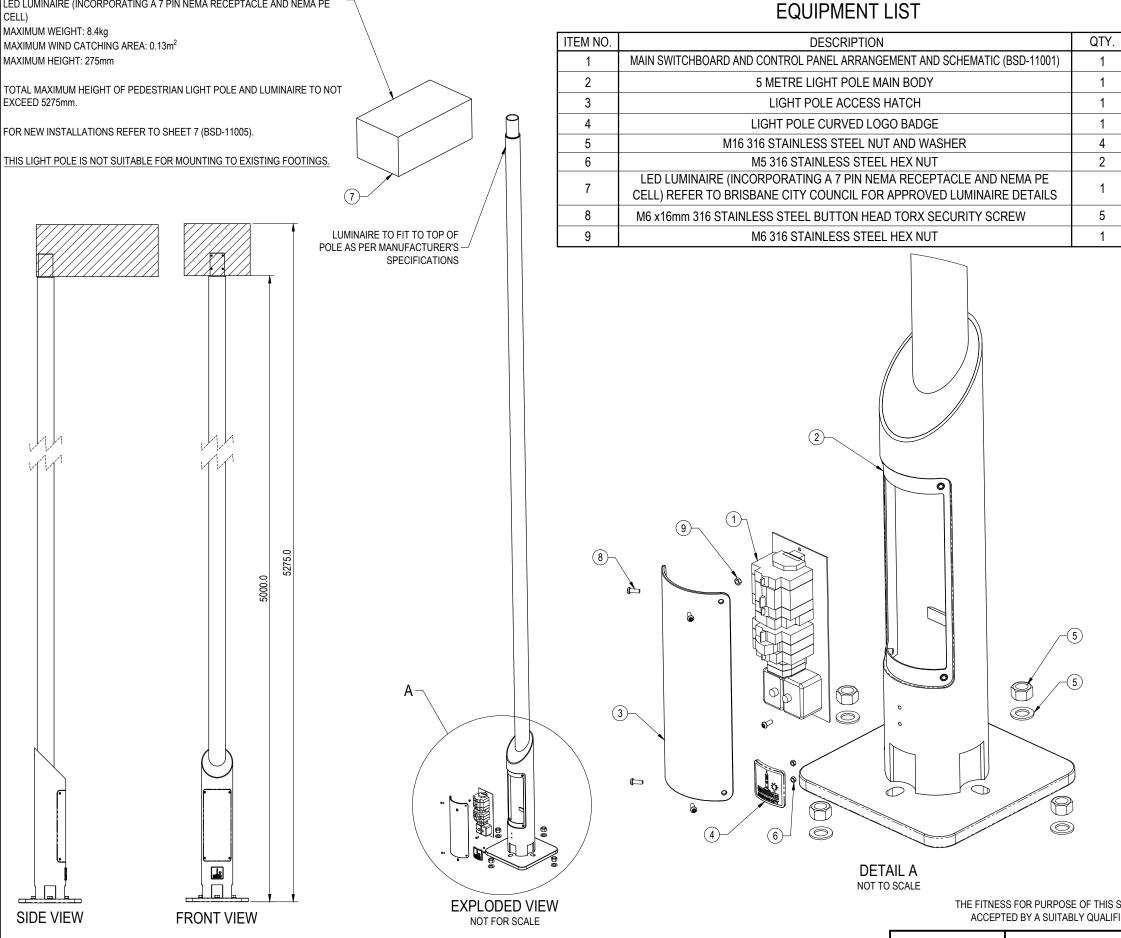
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DRAWING NUMBER

RSD_11004

BSD-11004

ORIGINAL SIZE REVISION



LED LUMINAIRE (INCORPORATING A 7 PIN NEMA RECEPTACLE AND NEMA PE

STANDARDS

DESIGNED IN ACCORDANCE WITH, FABRICATED AND INSTALLED TO MEET THE FOLLOWING STANDARDS:

- 1. AS1428.4.1 TACTILE GROUND SURFACE INDICATORS FOR THE ORIENTATION OF PEOPLE WITH VISION IMPAIRMENT.
- 2. AUSTROADS GUIDE TO ROAD DESIGN, PART 6B: ROADSIDE **ENVIRONMENT**
- 3. AS1158.3.1 ROAD LIGHTING, PART 3.1: PEDESTRIAN AREA (CATEGORY P) LIGHTING - PERFORMANCE AND INSTALLATION DESIGN REQUIREMENTS.
- 4. AS1627.4 METAL FINISHING PREPARATION AND PRE-TREATMENT OF SURFACES - ABRASIVE BLAST CLEANING OF STEEL
- 5. AS2312/AMDT 1 GUIDE TO PROTECTION OF IRON AND STEEL AGAINST EXTERIOR ATMOSPHERIC CORROSION.
- 6. AS4680 HOT DIP GALVANISING.
- 7. AS4506 METAL FINISHING-THERMOSET POWDER COATINGS.
- 8. AS/NZS3000 ELECTRICAL INSTALLATIONS

NOTES

PART SHOULD BE SUPPLIED CLEAN AND FREE FROM MARKS, BURRS. SCUFFS, DISTORTION AND WARPAGE

- 1. ALL TOLERANCES ± 1.5mm UNLESS OTHERWISE SPECIFIED.
- 2. DRAWING TO AS1100 DRAWING STANDARDS.
- 3. WELDING TO BE IN ACCORDANCE WITH AS1554.1 CAT GP WELDING, ALL SHARP EDGES & BURRS REMOVED.
- 4. POWDER COATING TO BE IN ACCORDANCE TO AS4506 EXTERNAL EXPOSURE STANDARD WITH PRE-TREATMENT SAND BLAST, ZINC PHOSPHATE, ETC.
- 5. ENSURE ANTI-SEIZE IS ON ALL NUTS AND BOLTS PRIOR TO ASSEMBLY.
- 6. 316 S.S. AND 316 S.S. FASTENERS TO BE USED THROUGHOUT FOR COASTAL INSTALLATIONS OR ANY ENVIRONMENT WITH HIGH CORROSION.
- 7. ANY DESIGN AMENDMENTS THAT DIFFER FROM THESE DRAWINGS, INCLUDING LUMINAIRE OR OTHER POLE LOADING REQUIREMENTS WILL REQUIRE CERTIFICATION FROM A SUITABLY QUALIFIED **ENGINEER**

MATERIALS

- 1. MATERIAL: SEE COMPONENT DRAWING
- 2. COLOUR:

LED LUMINAIRE - RAL 7010 TARPAULIN GREY OR APPROVED EQUIVALENT.

LIGHT POLE - DULUX METROPOLIS STORM PEARL OR APPROVED EQUIVALENT.

3. FINISH: HOT DIP GALVANISED AND POWDER COATED

DESIGN NOTES:

- STRUCTURAL ELEMENTS DESIGNED FOR THE FOLLOWING WIND
- LOCATION AND WIND:CITY OF BRISBANE. REGION B, ULTIMATE VR: 57 m/s. SERVICEABILITY VR: 39m/s
- COMPONENTS CERTIFIED: MAIN STRUCTURE
- SHOULD CONDITIONS VARY FROM THOSE DESCRIBED. SEEK PROFESSIONAL ENGINEERING ADVICE.
- LED LUMINAIRE, ACCESS HATCH, LOGO BADGE AND MAIN BODY ASSEMBLY AS PER MANUFACTURER'S SPECIFICATIONS.
- ORIGINAL CERTIFICATION SHALL NOT BE CONSTRUED AS RELIEVING ANY OTHER PARTY OR THEIR RESPONSIBILITIES. LIABILITIES OR CONTRACTUAL OBLIGATIONS.

THE FITNESS FOR PURPOSE OF THIS STANDARD DRAWING FOR A SPECIFIC PROJECT SHALL BE ASSESSED AND ACCEPTED BY A SUITABLY QUALIFIED REGISTERED PROFESSIONAL ENGINEER OF QUEENSLAND (RPEQ).

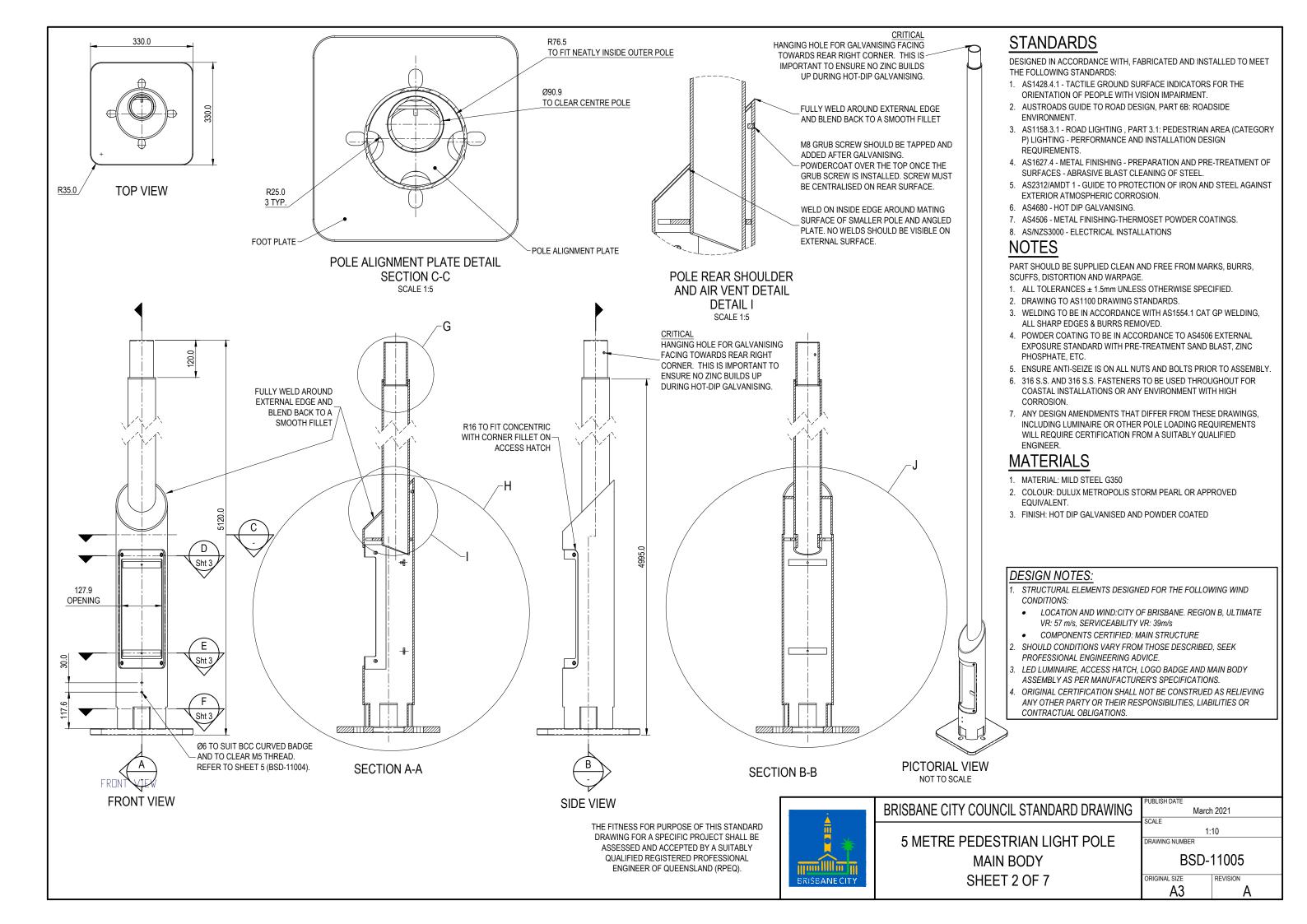


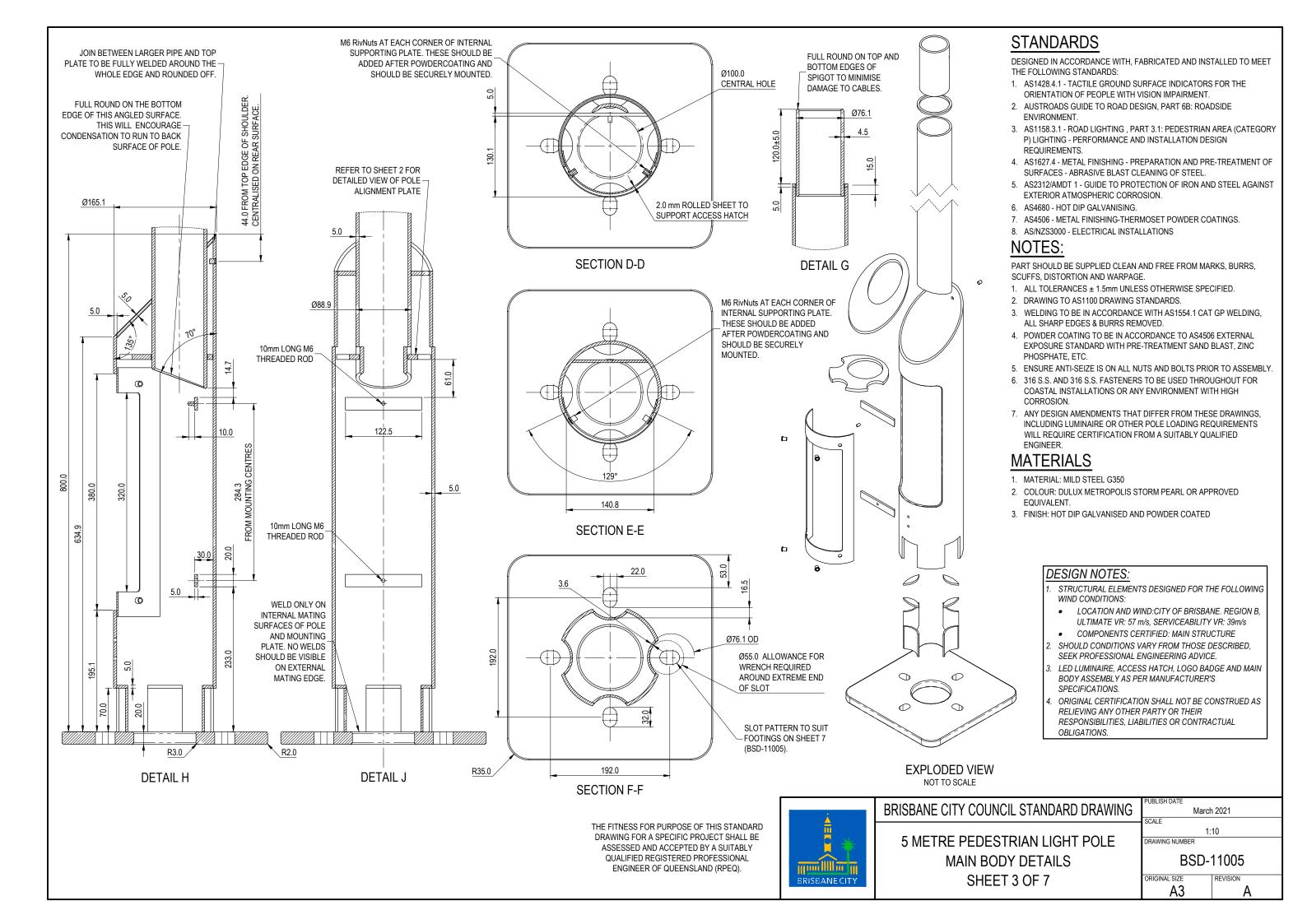
BRISBANE CITY COUNCIL STANDARD DRAWING

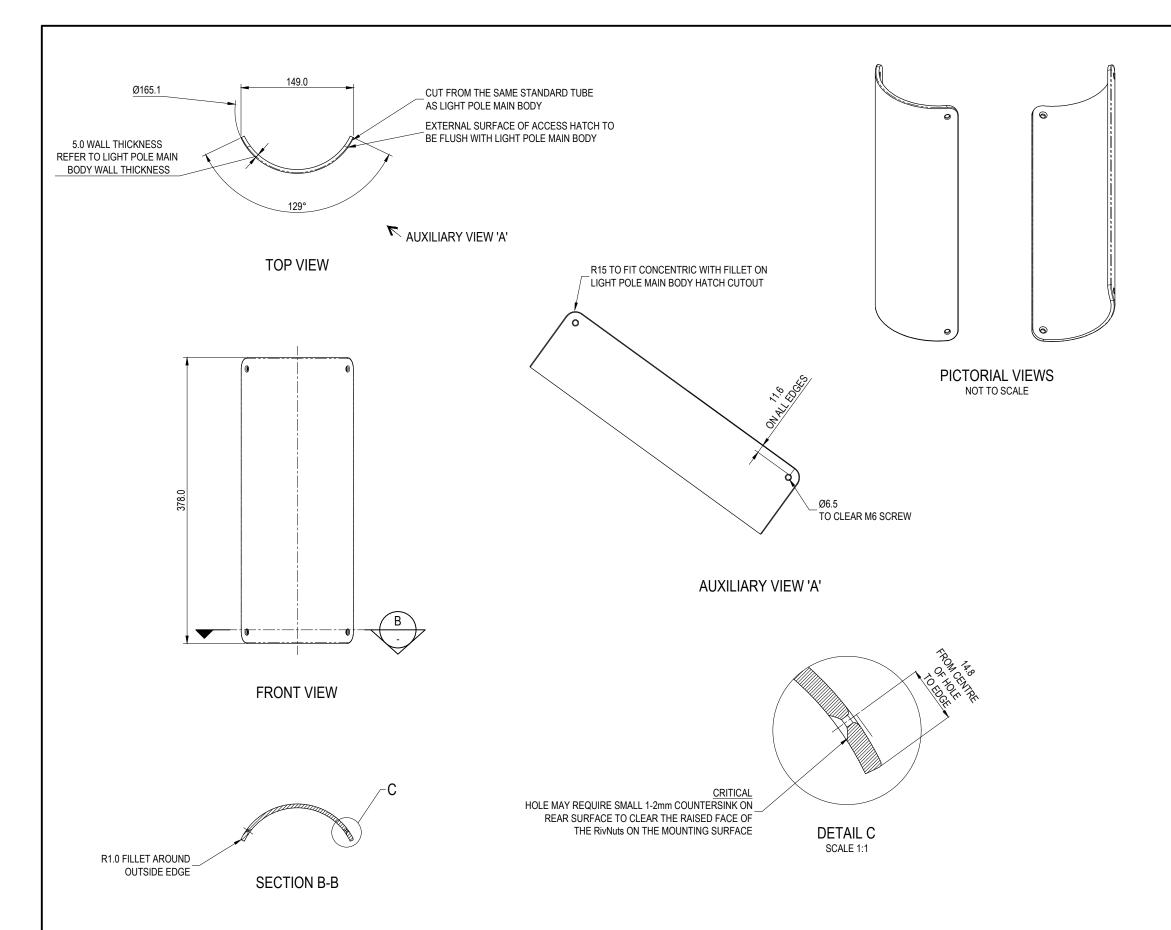
5 METRE PEDESTRIAN LIGHT POLE MAIN ASSEMBLY SHEET 1 OF 7

March 2021 NOT TO SCALE RAWING NUMBER BSD-11005

ORIGINAL SIZE







DESIGNED IN ACCORDANCE WITH, FABRICATED AND INSTALLED TO MEET THE FOLLOWING STANDARDS:

- AS1428.4.1 TACTILE GROUND SURFACE INDICATORS FOR THE ORIENTATION OF PEOPLE WITH VISION IMPAIRMENT.
- AUSTROADS GUIDE TO ROAD DESIGN, PART 6B: ROADSIDE ENVIRONMENT.
- AS1158.3.1 ROAD LIGHTING, PART 3.1: PEDESTRIAN AREA (CATEGORY P) LIGHTING - PERFORMANCE AND INSTALLATION DESIGN REQUIREMENTS.
- 4. AS1627.4 METAL FINISHING PREPARATION AND PRE-TREATMENT OF SURFACES ABRASIVE BLAST CLEANING OF STEEL.
- AS2312/AMDT 1 GUIDE TO PROTECTION OF IRON AND STEEL AGAINST EXTERIOR ATMOSPHERIC CORROSION.
- 6. AS4680 HOT DIP GALVANISING.
- 7. AS4506 METAL FINISHING-THERMOSET POWDER COATINGS.
- 8. AS/NZS3000 ELECTRICAL INSTALLATIONS

NOTES:

PART SHOULD BE SUPPLIED CLEAN AND FREE FROM MARKS, BURRS, SCUFFS, DISTORTION AND WARPAGE.

- 1. ALL TOLERANCES ± 1.5mm UNLESS OTHERWISE SPECIFIED.
- DRAWING TO AS1100 DRAWING STANDARDS.
- 3. WELDING TO BE IN ACCORDANCE WITH AS1554.1 CAT GP WELDING, ALL SHARP EDGES & BURRS REMOVED.
- POWDER COATING TO BE IN ACCORDANCE TO AS4506 EXTERNAL EXPOSURE STANDARD WITH PRE-TREATMENT SAND BLAST, ZINC PHOSPHATE, ETC.
- 5. ENSURE ANTI-SEIZE IS ON ALL NUTS AND BOLTS PRIOR TO ASSEMBLY.
- 316 S.S. AND 316 S.S. FASTENERS TO BE USED THROUGHOUT FOR COASTAL INSTALLATIONS OR ANY ENVIRONMENT WITH HIGH CORROSION.
- ANY DESIGN AMENDMENTS THAT DIFFER FROM THESE DRAWINGS, INCLUDING LUMINAIRE OR OTHER POLE LOADING REQUIREMENTS WILL REQUIRE CERTIFICATION FROM A SUITABLY QUALIFIED ENGINEER.

MATERIALS

- 1. MATERIAL: MILD STEEL G350
- 2. COLOUR: DULUX METROPOLIS STORM PEARL OR APPROVED EQUIVALENT.
- 3. FINISH: HOT DIP GALVANISED AND POWDER COATED

DESIGN NOTES:

- STRUCTURAL ELEMENTS DESIGNED FOR THE FOLLOWING WIND CONDITIONS:
- LOCATION AND WIND:CITY OF BRISBANE. REGION B, ULTIMATE VR: 57 m/s, SERVICEABILITY VR: 39m/s
- COMPONENTS CERTIFIED: MAIN STRUCTURE
- SHOULD CONDITIONS VARY FROM THOSE DESCRIBED, SEEK PROFESSIONAL ENGINEERING ADVICE.
- 3. LED LUMINAIRE, ACCESS HATCH, LOGO BADGE AND MAIN BODY ASSEMBLY AS PER MANUFACTURER'S SPECIFICATIONS.
- 4. ORIGINAL CERTIFICATION SHALL NOT BE CONSTRUED AS RELIEVING ANY OTHER PARTY OR THEIR RESPONSIBILITIES, LIABILITIES OR CONTRACTUAL OBLIGATIONS.

THE FITNESS FOR PURPOSE OF THIS STANDARD DRAWING FOR A SPECIFIC PROJECT SHALL BE ASSESSED AND ACCEPTED BY A SUITABLY QUALIFIED REGISTERED PROFESSIONAL ENGINEER OF QUEENSLAND (RPEQ).



BRISBANE CITY COUNCIL STANDARD DRAWING

5 METRE PEDESTRIAN LIGHT POLE ACCESS HATCH SHEET 4 OF 7 PUBLISH DATE

March 2021

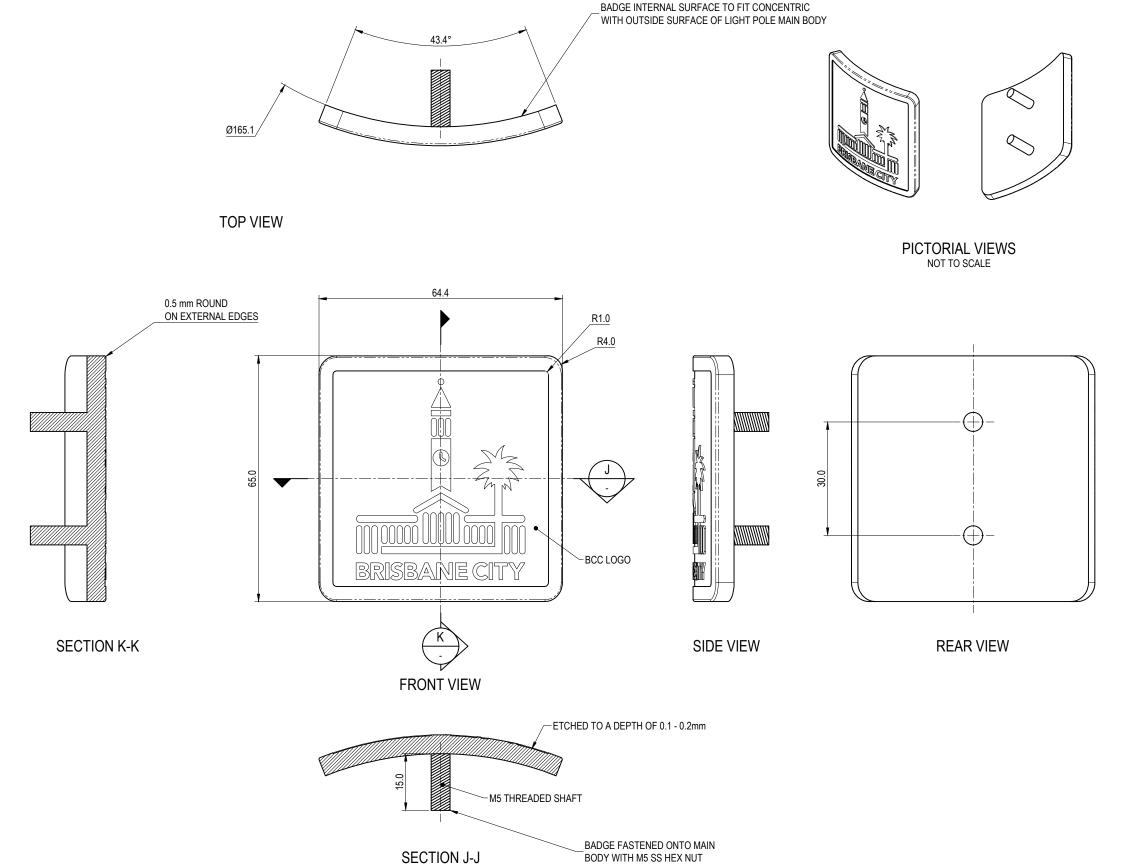
SCALE

1:10

DRAWING NUMBER

BSD-11005

BSD-11005
ORIGINAL SIZE REVISION A



DESIGNED IN ACCORDANCE WITH, FABRICATED AND INSTALLED TO MEET THE FOLLOWING STANDARDS:

- AS1428.4.1 TACTILE GROUND SURFACE INDICATORS FOR THE ORIENTATION OF PEOPLE WITH VISION IMPAIRMENT.
- AUSTROADS GUIDE TO ROAD DESIGN, PART 6B: ROADSIDE ENVIRONMENT.
- AS1158.3.1 ROAD LIGHTING, PART 3.1: PEDESTRIAN AREA (CATEGORY P) LIGHTING - PERFORMANCE AND INSTALLATION DESIGN REQUIREMENTS.
- 4. AS1627.4 METAL FINISHING PREPARATION AND PRE-TREATMENT OF SURFACES ABRASIVE BLAST CLEANING OF STEEL.
- 5. AS2312/AMDT 1 GUIDE TO PROTECTION OF IRON AND STEEL AGAINST EXTERIOR ATMOSPHERIC CORROSION.
- 6. AS4680 HOT DIP GALVANISING.
- 7. AS4506 METAL FINISHING-THERMOSET POWDER COATINGS.
- 8. AS/NZS3000 ELECTRICAL INSTALLATIONS

NOTES:

PART SHOULD BE SUPPLIED CLEAN AND FREE FROM MARKS, BURRS, SCUFFS, DISTORTION AND WARPAGE.

- 1. ALL TOLERANCES ± 1.5mm UNLESS OTHERWISE SPECIFIED.
- 2. DRAWING TO AS1100 DRAWING STANDARDS.
- 3. WELDING TO BE IN ACCORDANCE WITH AS1554.1 CAT GP WELDING, ALL SHARP EDGES & BURRS REMOVED.
- 4. POWDER COATING TO BE IN ACCORDANCE TO AS4506 EXTERNAL EXPOSURE STANDARD WITH PRE-TREATMENT SAND BLAST, ZINC PHOSPHATE, ETC.
- 5. ENSURE ANTI-SEIZE IS ON ALL NUTS AND BOLTS PRIOR TO ASSEMBLY.
- 6. 316 S.S. AND 316 S.S. FASTENERS TO BE USED THROUGHOUT FOR COASTAL INSTALLATIONS OR ANY ENVIRONMENT WITH HIGH CORROSION.
- 7. ANY DESIGN AMENDMENTS THAT DIFFER FROM THESE DRAWINGS, INCLUDING LUMINAIRE OR OTHER POLE LOADING REQUIREMENTS WILL REQUIRE CERTIFICATION FROM A SUITABLY QUALIFIED ENGINEER.

MATERIALS

- 1. MATERIAL: 316 STAINLESS STEEL
- 2. COLOUR: NATURAL
- 3. FINISH: GARNET BLAST

DESIGN NOTES:

- STRUCTURAL ELEMENTS DESIGNED FOR THE FOLLOWING WIND CONDITIONS:
- LOCATION AND WIND:CITY OF BRISBANE. REGION B, ULTIMATE VR: 57 m/s, SERVICEABILITY VR: 39m/s
- COMPONENTS CERTIFIED: MAIN STRUCTURE
- SHOULD CONDITIONS VARY FROM THOSE DESCRIBED, SEEK PROFESSIONAL ENGINEERING ADVICE.
- LED LUMINAIRE, ACCESS HATCH, LOGO BADGE AND MAIN BODY ASSEMBLY AS PER MANUFACTURER'S SPECIFICATIONS.
- ORIGINAL CERTIFICATION SHALL NOT BE CONSTRUED AS RELIEVING ANY OTHER PARTY OR THEIR RESPONSIBILITIES, LIABILITIES OR CONTRACTUAL OBLIGATIONS.

THE FITNESS FOR PURPOSE OF THIS STANDARD DRAWING FOR A SPECIFIC PROJECT SHALL BE ASSESSED AND ACCEPTED BY A SUITABLY QUALIFIED REGISTERED PROFESSIONAL ENGINEER OF QUEENSLAND (RPEQ).



BRISBANE CITY COUNCIL STANDARD DRAWING

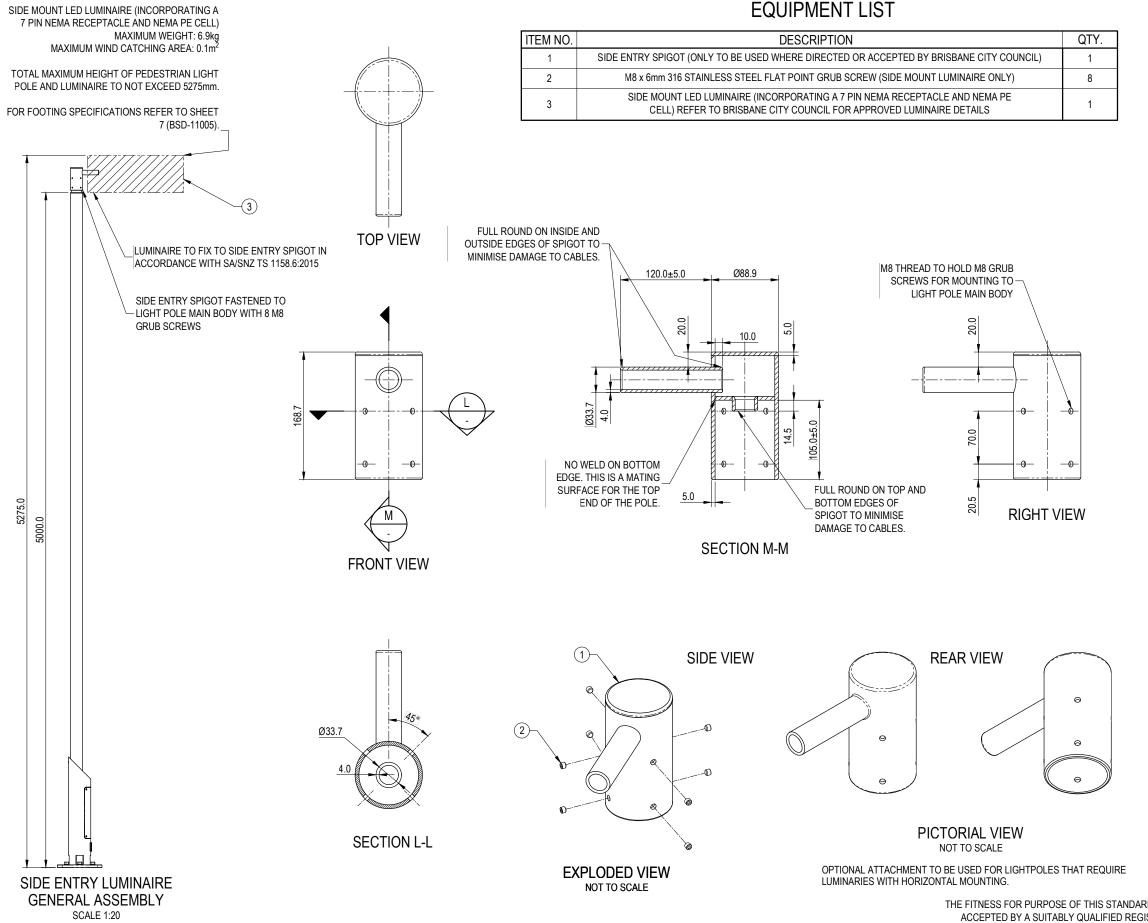
5 METRE PEDESTRIAN LIGHT POLE CURVED LOGO BADGE SHEET 5 OF 7

PUBLISH DATE		
March 2021		
SCALE		
1:1		
DRAWING NUMBER		
BSD-11005		

REVISION

ORIGINAL SIZE

A3



DESIGNED IN ACCORDANCE WITH, FABRICATED AND INSTALLED TO MEET THE FOLLOWING STANDARDS:

- AS1428.4.1 TACTILE GROUND SURFACE INDICATORS FOR THE ORIENTATION OF PEOPLE WITH VISION IMPAIRMENT.
- AUSTROADS GUIDE TO ROAD DESIGN, PART 6B: ROADSIDE ENVIRONMENT
- AS1158.3.1 ROAD LIGHTING , PART 3.1: PEDESTRIAN AREA (CATEGORY P) LIGHTING - PERFORMANCE AND INSTALLATION DESIGN REQUIREMENTS.
- 4. AS1627.4 METAL FINISHING PREPARATION AND PRE-TREATMENT OF SURFACES ABRASIVE BLAST CLEANING OF STEEL.
- AS2312/AMDT 1 GUIDE TO PROTECTION OF IRON AND STEEL AGAINST EXTERIOR ATMOSPHERIC CORROSION.
- 6. AS4680 HOT DIP GALVANISING.
- 7. AS4506 METAL FINISHING-THERMOSET POWDER COATINGS.
- 8. AS/NZS3000 ELECTRICAL INSTALLATIONS

NOTES:

PART SHOULD BE SUPPLIED CLEAN AND FREE FROM MARKS, BURRS, SCUFFS, DISTORTION AND WARPAGE.

- 1. ALL TOLERANCES ± 1.5mm UNLESS OTHERWISE SPECIFIED.
- 2. DRAWING TO AS1100 DRAWING STANDARDS.
- WELDING TO BE IN ACCORDANCE WITH AS1554.1 CAT GP WELDING, ALL SHARP EDGES & BURRS REMOVED.
- POWDER COATING TO BE IN ACCORDANCE TO AS4506 EXTERNAL EXPOSURE STANDARD WITH PRE-TREATMENT SAND BLAST, ZINC PHOSPHATE, ETC.
- 5. ENSURE ANTI-SEIZE IS ON ALL NUTS AND BOLTS PRIOR TO ASSEMBLY.
- 316 S.S. AND 316 S.S. FASTENERS TO BE USED THROUGHOUT FOR COASTAL INSTALLATIONS OR ANY ENVIRONMENT WITH HIGH CORROSION.
- ANY DESIGN AMENDMENTS THAT DIFFER FROM THESE DRAWINGS, INCLUDING LUMINAIRE OR OTHER POLE LOADING REQUIREMENTS WILL REQUIRE CERTIFICATION FROM A SUITABLY QUALIFIED ENGINEER.

MATERIALS

- 1. MATERIAL: MILD STEEL G350
- 2. COLOUR:

LED LUMINAIRE - RAL 7010 TARPAULIN GREY OR APPROVED EQUIVALENT.

LIGHT POLE AND SPIGOT - DULUX METROPOLIS STORM PEARL OR APPROVED EQUIVALENT.

3. FINISH: HOT DIP GALVANISED AND POWDER COATED

DESIGN NOTES:

- . STRUCTURAL ELEMENTS DESIGNED FOR THE FOLLOWING WIND CONDITIONS:
- LOCATION AND WIND:CITY OF BRISBANE. REGION B, ULTIMATE VR: 57 m/s, SERVICEABILITY VR: 39m/s
- COMPONENTS CERTIFIED: MAIN STRUCTURE
- SHOULD CONDITIONS VARY FROM THOSE DESCRIBED, SEEK PROFESSIONAL ENGINEERING ADVICE.
- 3. LED LUMINAIRE, ACCESS HATCH, LOGO BADGE AND MAIN BODY ASSEMBLY AS PER MANUFACTURER'S SPECIFICATIONS.
- ORIGINAL CERTIFICATION SHALL NOT BE CONSTRUED AS RELIEVING ANY OTHER PARTY OR THEIR RESPONSIBILITIES, LIABILITIES OR CONTRACTUAL OBLIGATIONS.

THE FITNESS FOR PURPOSE OF THIS STANDARD DRAWING FOR A SPECIFIC PROJECT SHALL BE ASSESSED AND ACCEPTED BY A SUITABLY QUALIFIED REGISTERED PROFESSIONAL ENGINEER OF QUEENSLAND (RPEQ).



BRISBANE CITY COUNCIL STANDARD DRAWING

5 METRE PEDESTRIAN LIGHT POLE ALTERNATIVE SIDE ENTRY SHEET 6 OF 7 PUBLISH DATE

March 2021

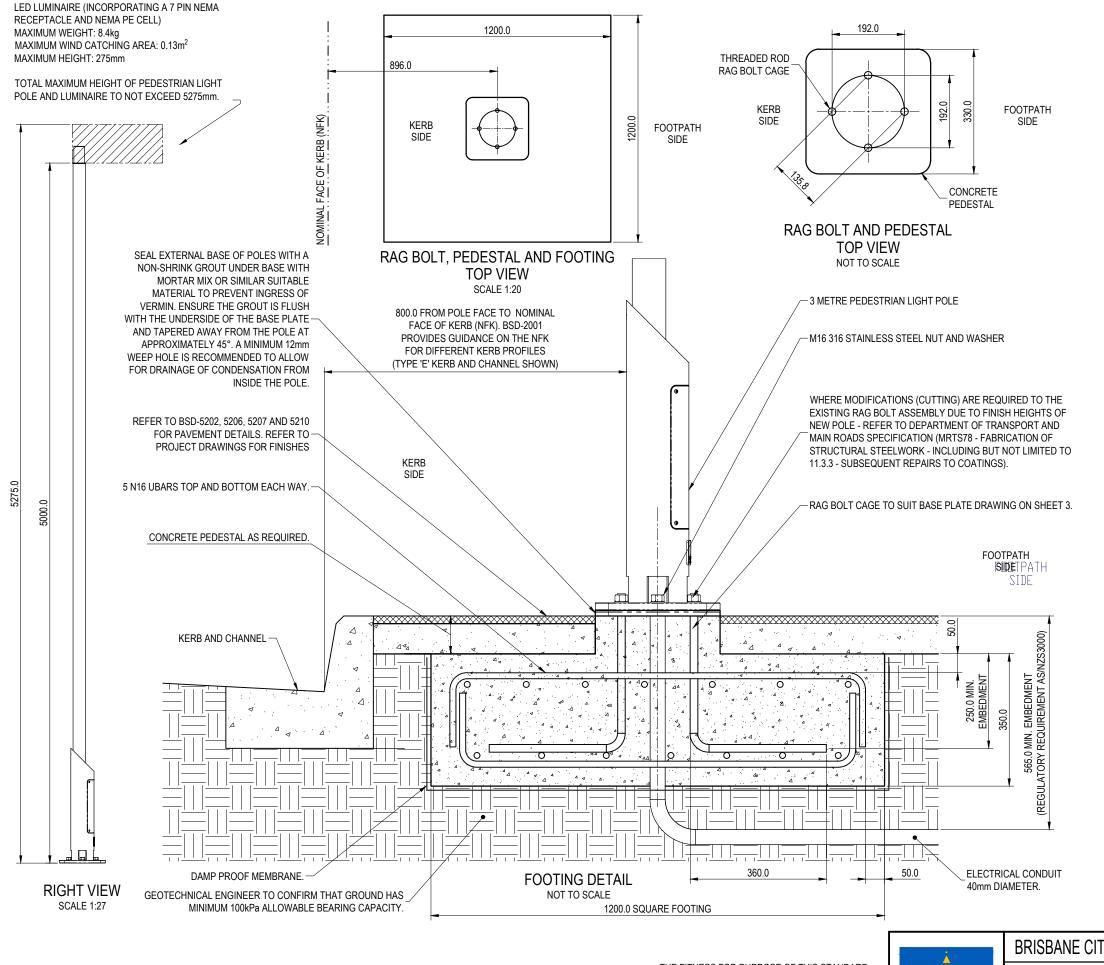
SCALE

1:5

DRAWING NUMBER

BSD-11005

ORIGINAL SIZE REVISION



DESIGNED IN ACCORDANCE WITH, FABRICATED AND INSTALLED TO MEET THE FOLLOWING STANDARDS:

- AS1428.4.1 TACTILE GROUND SURFACE INDICATORS FOR THE ORIENTATION OF PEOPLE WITH VISION IMPAIRMENT.
- 2. AUSTROADS GUIDE TO ROAD DESIGN, PART 6B: ROADSIDE ENVIRONMENT.
- AS1158.3.1 ROAD LIGHTING, PART 3.1: PEDESTRIAN AREA (CATEGORY P) LIGHTING - PERFORMANCE AND INSTALLATION DESIGN REQUIREMENTS.
- AS1627.4 METAL FINISHING PREPARATION AND PRE-TREATMENT OF SURFACES - ABRASIVE BLAST CLEANING OF STEEL.
- AS2312/AMDT 1 GUIDE TO PROTECTION OF IRON AND STEEL AGAINST EXTERIOR ATMOSPHERIC CORROSION.
- 6. AS4680 HOT DIP GALVANISING.
- 7. AS4506 METAL FINISHING-THERMOSET POWDER COATINGS.
- 8. AS/NZS3000 ELECTRICAL INSTALLATIONS

NOTES:

PART SHOULD BE SUPPLIED CLEAN AND FREE FROM MARKS, BURRS, SCUFFS, DISTORTION AND WARPAGE.

- 1. ALL TOLERANCES ± 1.5mm UNLESS OTHERWISE SPECIFIED.
- 2. DRAWING TO AS1100 DRAWING STANDARDS.
- WELDING TO BE IN ACCORDANCE WITH AS1554.1 CAT GP WELDING, ALL SHARP EDGES & BURRS REMOVED.
- POWDER COATING TO BE IN ACCORDANCE TO AS4506 EXTERNAL EXPOSURE STANDARD WITH PRE-TREATMENT SAND BLAST, ZINC PHOSPHATE, ETC.
- 5. ENSURE ANTI-SEIZE IS ON ALL NUTS AND BOLTS PRIOR TO ASSEMBLY.
- 316 S.S. AND 316 S.S. FASTENERS TO BE USED THROUGHOUT FOR COASTAL INSTALLATIONS OR ANY ENVIRONMENT WITH HIGH CORROSION.
- LIGHTING DESIGN IS TO BE CERTIFIED BY AN ELECTRICAL RPEQ OR MIES AND ELECTRICAL DESIGN IS TO BE CERTIFIED BY AN ELECTRICAL RPEQ.
- THE CONTRACTOR IS TO ENSURE THAT ALL SERVICE PROVIDER APPROVALS ARE IN PLACE PRIOR TO THE COMMENCEMENT OF WORKS.
- ALL ELECTRICAL WORK IS TO BE UNDERTAKEN BY A QUEENSLAND LICENSED ELECTRICAL CONTRACTOR TO AUSTRALIAN STANDARDS AND COUNCIL REQUIREMENTS.
- 10. CONCRETE TO BE N25 AND COVER TO ALL REINFORCING STEEL TO BE 50mm.
- 11. ANY DESIGN AMENDMENTS THAT DIFFER FROM THESE DRAWINGS, INCLUDING LUMINAIRE OR OTHER POLE LOADING REQUIREMENTS WILL REQUIRE CERTIFICATION FROM A SUITABLY QUALIFIED ENGINEER.

MATERIALS

- 1. MATERIAL: SEE COMPONENT DRAWING
- 2. COLOUR: SEE COMPONENT DRAWING
- 3. FINISH: SEE COMPONENT DRAWING

DESIGN NOTES:

- STRUCTURAL ELEMENTS DESIGNED FOR THE FOLLOWING WIND CONDITIONS:
- LOCATION AND WIND:CITY OF BRISBANE. REGION B, ULTIMATE VR: 57 m/s, SERVICEABILITY VR: 39m/s
- COMPONENTS CERTIFIED: MAIN STRUCTURE
- 2. SHOULD CONDITIONS VARY FROM THOSE DESCRIBED, SEEK PROFESSIONAL ENGINEERING ADVICE.
- LED LUMINAIRE, ACCESS HATCH, LOGO BADGE AND MAIN BODY ASSEMBLY AS PER MANUFACTURER'S SPECIFICATIONS.
- ORIGINAL CERTIFICATION SHALL NOT BE CONSTRUED AS RELIEVING ANY OTHER PARTY OR THEIR RESPONSIBILITIES, LIABILITIES OR CONTRACTUAL OBLIGATIONS.

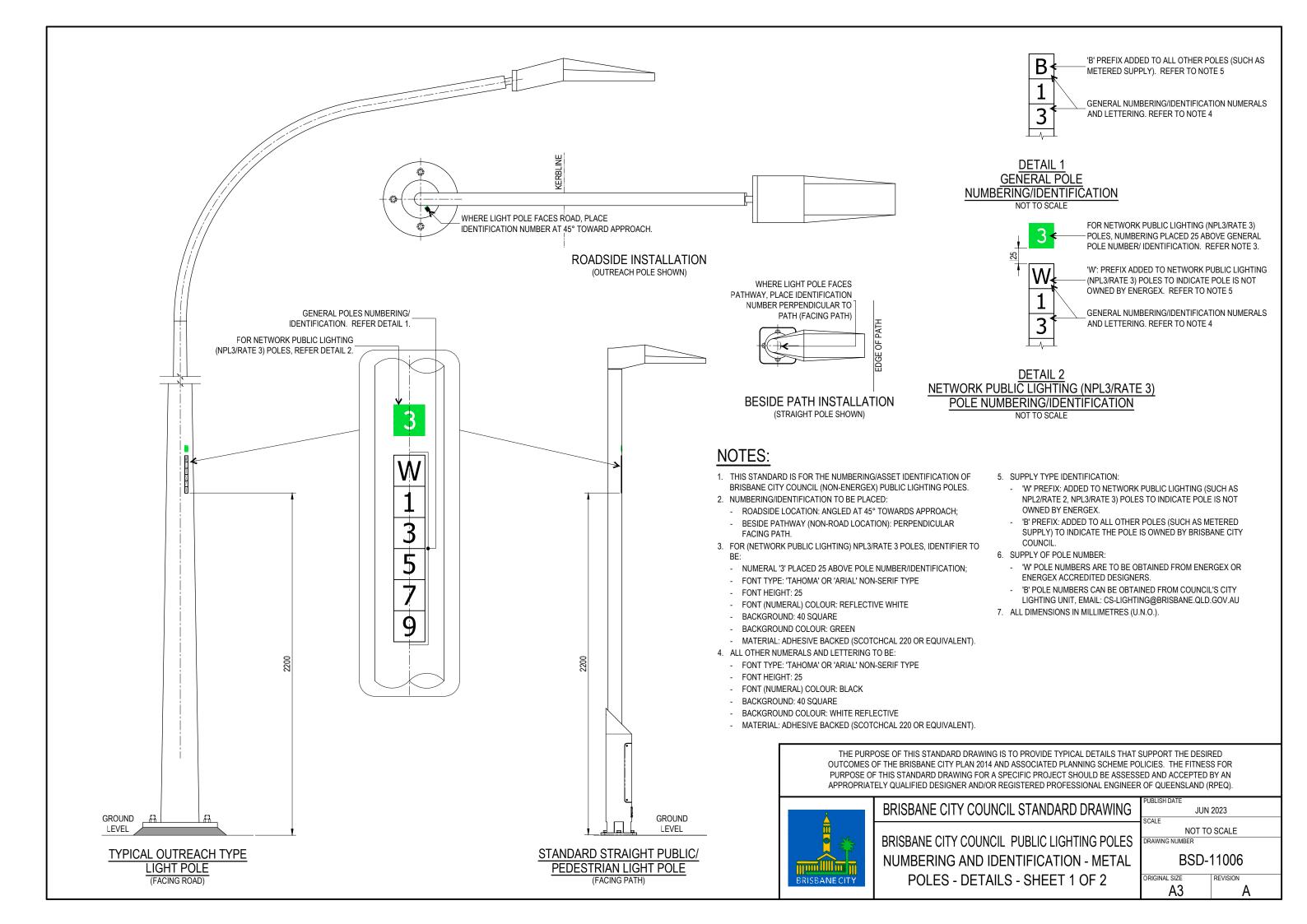
THE FITNESS FOR PURPOSE OF THIS STANDARD DRAWING FOR A SPECIFIC PROJECT SHALL BE ASSESSED AND ACCEPTED BY A SUITABLY QUALIFIED REGISTERED PROFESSIONAL ENGINEER OF QUEENSLAND (RPEQ).

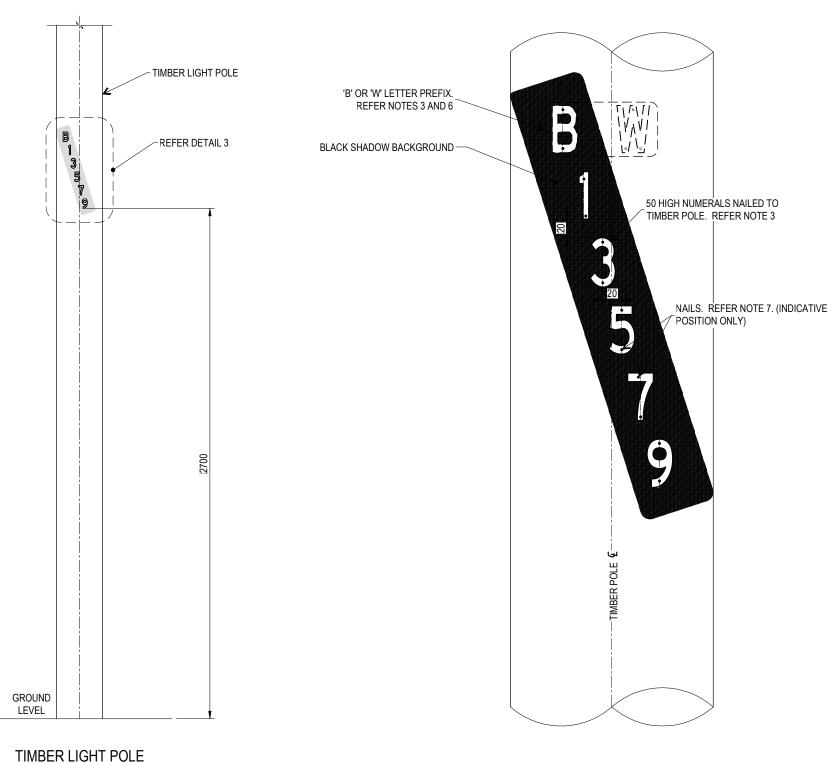


BRISBANE CITY COUNCIL STANDARD DRAWING

5 METRE PEDESTRIAN LIGHT POLE INSTALLATION ON NEW FOOTING SHEET 7 OF 7 G PUBLISH DATE March 2021
SCALE 1:10
DRAWING NUMBER
BSD-11005

BSD-11005
ORIGINAL SIZE REVISION A





IDENTIFICATION NUMBERS FACING

DETAIL 3
IDENTIFICATION NUMBER LAYOUT

NOTES:

- THIS STANDARD IS FOR THE NUMBERING/ASSET IDENTIFICATION OF BRISBANE CITY COUNCIL (NON-ENERGEX) TIMBER PUBLIC LIGHTING POLES.
- 2. NUMBERING/IDENTIFICATION TO BE PLACED:
- ROADSIDE AND PATHWAY LOCATION: PERPENDICULAR FACING ROAD OR PATH.
- 3. NUMERALS AND LETTERING TO BE:
- FONT HEIGHT: 50
- WIDTH: 35
- FONT (NUMERAL) COLOUR: NATURAL (SILVER)
- MATERIAL: 24 GAUGE ALUMINUM
- NUMBER OF HOLES: 2
- 5. PAINT AREA BEHIND IDENTIFICATION NUMBER BLACK.
- SUPPLY TYPE IDENTIFICATION:
- 'W' PREFIX: ADDED TO NETWORK PUBLIC LIGHTING (SUCH AS NPL2/RATE 2, NPL3/RATE 3) POLES TO INDICATE POLE IS NOT OWNED BY ENERGEX.
- 'B' PREFIX: ADDED TO ALL OTHER POLES (SUCH AS METERED SUPPLY) TO INDICATE THE POLE IS OWNED BY BRISBANE CITY COUNCIL.
- 6. SUPPLY OF POLE NUMBER:
 - 'W' POLE NUMBERS ARE TO BE OBTAINED FROM ENERGEX OR ENERGEX ACCREDITED DESIGNERS.
 - 'B' POLE NUMBERS CAN BE OBTAINED FROM COUNCIL'S CITY LIGHTING UNIT, EMAIL: CS-LIGHTING@BRISBANE.QLD.GOV.AU
- 7. NAILS TO BE 12 GAUGE GALVANISED CLOUTS.
- 8. ALL DIMENSIONS IN MILLIMETRES (U.N.O.).

THE PURPOSE OF THIS STANDARD DRAWING IS TO PROVIDE TYPICAL DETAILS THAT SUPPORT THE DESIRED OUTCOMES OF THE BRISBANE CITY PLAN 2014 AND ASSOCIATED PLANNING SCHEME POLICIES. THE FITNESS FOR PURPOSE OF THIS STANDARD DRAWING FOR A SPECIFIC PROJECT SHOULD BE ASSESSED AND ACCEPTED BY AN APPROPRIATELY QUALIFIED DESIGNER AND/OR REGISTERED PROFESSIONAL ENGINEER OF QUEENSLAND (RPEQ).



BRISBANE CITY COUNCIL STANDARD DRAWING

BRISBANE CITY COUNCIL PUBLIC LIGHTING POLES NUMBERING AND IDENTIFICATION - TIMBER POLES - DETAILS - SHEET 2 OF 2

JUN 2023 SCALE NOT TO SCALE

BSD-11006

ORIGINAL SIZE REVISION A

TABLE 1 - POLE OFFSETS

PATH WIDTH	POLE OFFSET
≤2000	2500 FROM PATH
≥2000	CENTRELINE
>2000, ≤2500	2250 FROM PATH
>2000, ≥ 2500	CENTRELINE
>2500. ≤3000	2000 FROM PATH
~2500, ≥5000	CENTRELINE
>3000	MIN 500 FROM
~3000	EDGE OF PATH

TYPICAL LAYOUT LEGEND:

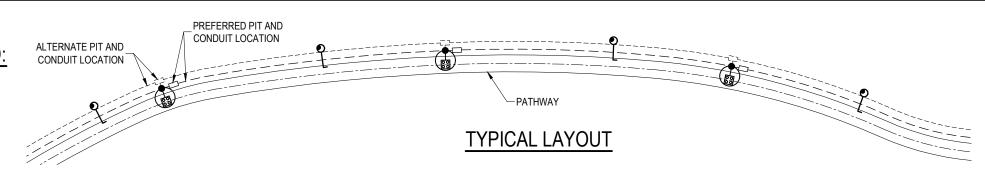
□ PROPOSED PIT

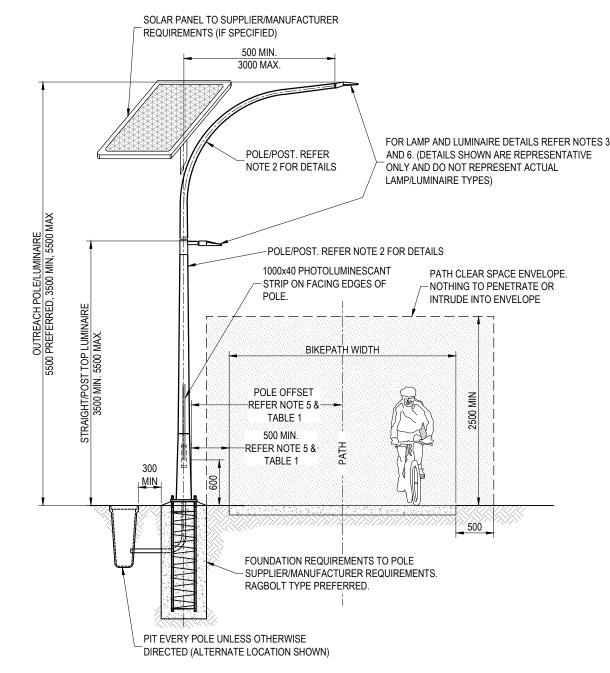
PROPOSED LIGHT (LED SHOWN)

LV POLE OR SL POLE

PROPOSED UNDERGROUND CONDUIT

ONDUIT ARRANGEMENT





TYPICAL CROSS SECTION

NOTES:

POWER SUPPLY: POWER SUPPLY TO BE EITHER MAINS OR SOLAR. WHERE MAINS POWERED, UNMETERED NETWORK PUBLIC LIGHTING (NPL) 3 TARIFF IS PREFERRED.

HOWEVER, IF POWER REQUIRED FOR OTHER USES (e.g. PARK LIGHTING, BBQ), SUPPLY MUST BE METERED. WHERE SOLAR POWER SUPPLY USED, SUPPLY TO HAVE SUFFICIENT BATTERY STORAGE TO ENSURE LIGHTING OPERATES AT SPECIFIED LEVEL FOR PRESCRIBED HOURS OF OPERATION

(FIT FOR PURPOSE).

2. POLE DETAILS: OUTREACH STYLE: HEIGHT - 5500 PREFERRED, 3500 MINIMUM, 5500 MAXIMUM

OUTREACH - 500 MINIMUM, 3000 MAXIMUM

POST/STRAIGHT STYLE: HEIGHT - 3200 MINIMUM, 5500 MAXIMUM

POLE TO MINIMUM HOT DIPPED GALVANISED STEEL, GALVANISING TO AS/NZS4680

POLES TO BE POWDERCOATED TO PREFERRED COLOUR BCC BLACK (AS2700 EQUIVALENT N61 BLACK) OR TO MATCH EXISTING INFRASTRUCTURE.

ALTERNATE COLOUR IF DIRECTED TO BE BCC GREEN 1 (AS 2700 EQUIV. G12 HOLLY). COLOURS AS PER BRISBANE CITY COUNCIL CORPORATE

COLOUR PALETTE - REFER BSD-1003.

3. LAMP DETAIL PREFERRED TYPE/WATTAGE (UNLESS OTHERWISE APPROVED BY COUNCIL)

• LED (LIGHT EMITTING DIODE) <40W.

ALTERNATIVE TYPE/WATTAGE (REQUIRES APPROVAL BY COUNCIL)

METAL HALIDE 35W-70W.

HIGH PRESSURE SODIUM 70W.

POLE SPACING: TO COMPLY WITH SCHEDULE 6 PLANNING SCHEME POLICIES (PSP), INFRASTRUCTURE DESIGN PSP, CHAPTER 4 PATHWAY DESIGN

OUTSIDE THE ROAD CORRIDOR, SECTION 4.3.6 PATHWAY LIGHTING. CATEGORY WILL VARY DEPENDING ON INDIVIDUAL SITE REQUIREMENTS.

5. POLE OFFSET: REFER TABLE 1 FOR POLE OFFSETS FOR DIFFERENT WIDTH PATHS. OFFSETS VARY FOR <3000 WIDE PATHS TO ALLOW

FOR FUTURE WIDENING OF PATH. WHERE PRACTICAL, INSTALL POLES ON SIDE OF PATH WHERE EXPANSION NOT LIKELY TO BE POSSIBLE.

LIGHTING POLES TO BE OFFSET MINIMUM 500 FROM EDGE OF PATH (REGARDLESS OF PATH WIDTH)

6. LUMINAIRE: TO COMPLY WITH UPWARD WASTE LIGHT AS PER AS/NZS1158.3.1 (TABLE 3.10). CONSIDERATION NEEDS TO BE GIVEN FOR SPILL LIGHT IN

ENVIRONMENTALLY SENSITIVE AREAS.

7. POST TOP IF DIRECTED OR IN SPECIAL PRECINCT AREA TO BE EARTHED BY WIRE

8. MOUNT TYPE: RAGBOLT ASSEMBLY WITH STANDARD POLE BASEPLATE

9. RETICULATION: PITS TO BE INSTALLED IN 'DAISY CHAIN' SEQUENCE AT EVERY POLE UNLESS DIRECTED OTHERWISE.

10. SWITCHBOARD TO BE INSTALLED/MOUNTED EXTERNAL TO POLE OR WITHIN POLE BASE.

11. CONDUIT TO MINIMUM 50mm

12. ALL ELECTRICAL COMPONENTS AND INSTALLATION TO COMPLY WITH AS/NZS3000.

13. POLE NUMBER TO CLEARLY VISIBLE FROM PATH.

14. PLANS TO SHOW FOLLOWING TABULATED INFORMATION:

- STREET LIGHTING SCHEDULE

- UNDERGROUND CIVIL WORKS SCHEDULE

- STREET LIGHT CABLE SCHEDULE

- CIRCUIT SCHEDULE

- MAJOR MATERIAL ITEMS/MATERIAL SUMMARY LIST

- COMPLIANCE DOCUMENTATION AS PER AS/NZS1158.3.1 APPENDIX 'C'.

15. REFER TO THE INFRASTRUCTURE INSTALLATION AND CONSTRUCTION REQUIREMENTS MANUAL (IICRM) FOR DESIGN AND AS-CONSTRUCTED REQUIREMENTS

16. ALL DIMENSIONS IN MILLIMETRES (U.N.O.).

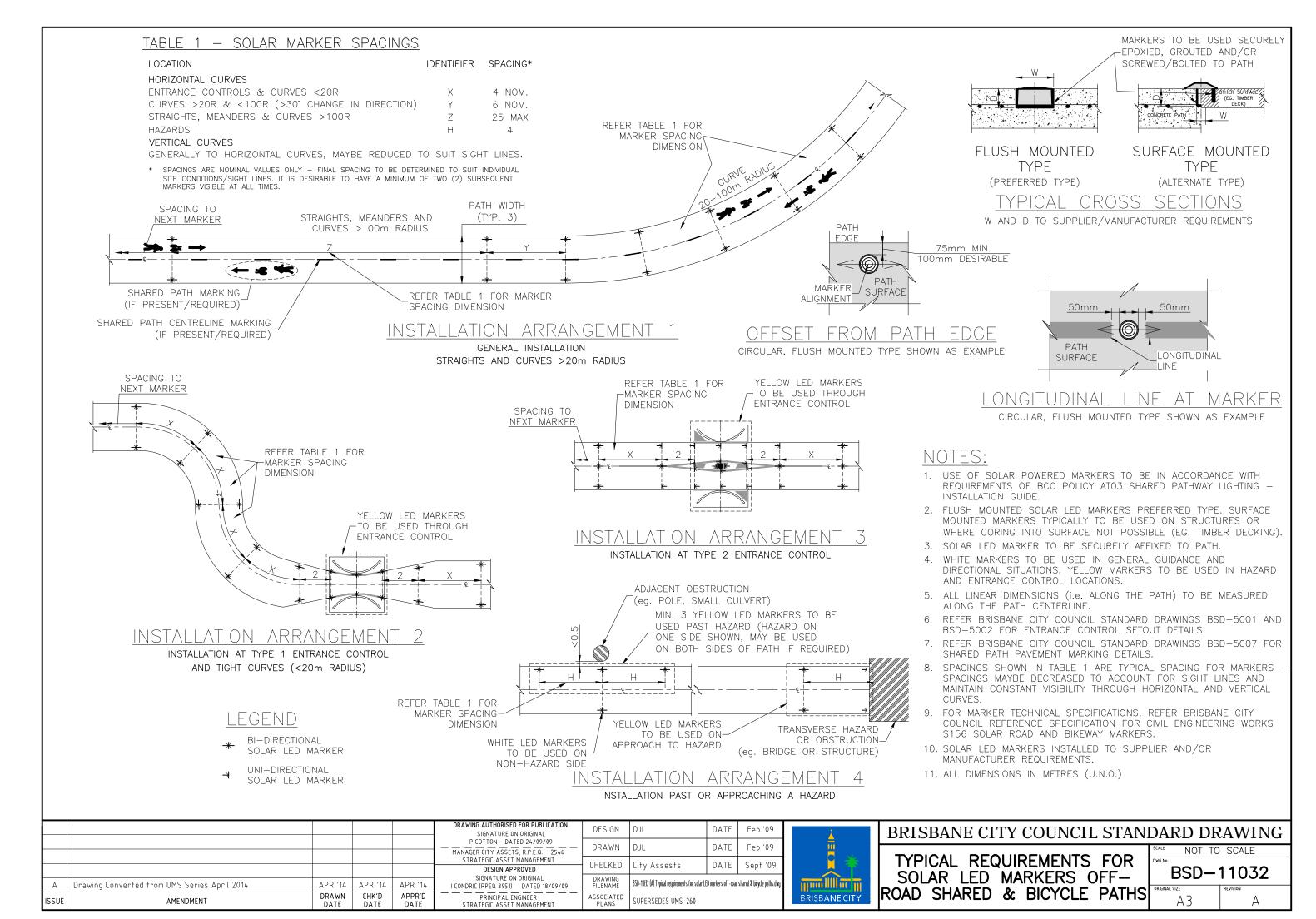
THE FITNESS FOR PURPOSE OF THIS STANDARD DRAWING FOR A SPECIFIC PROJECT SHALL BE ASSESSED AND ACCEPTED BY A SUITABLY QUALIFIED REGISTERED PROFESSIONAL ENGINEER OF QUEENSLAND (RPEQ).

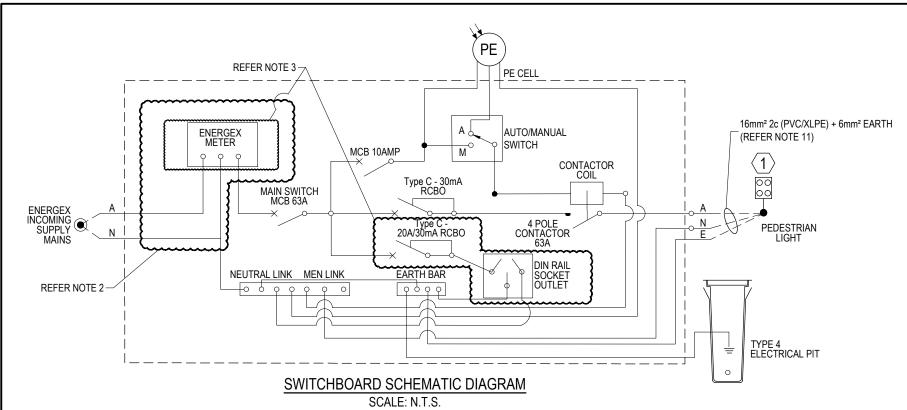


BRISBANE CITY COUNCIL STANDARD DRAWING

TYPICAL REQUIREMENTS FOR LIGHTING OF OFF-ROAD SHARED & BICYCLE PATHS

NAR	2021	
SCALE		
NOT TO	SCALE	
DRAWING NUMBER		
BSD-11031		
ORIGINAL SIZE	REVISION	

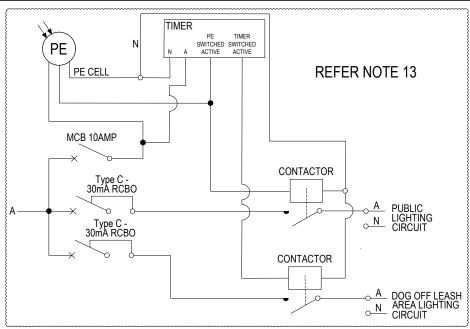




- 1. ELECTRICAL INSTALLATION SHALL COMPLY WITH AS/NZS3000 (WIRING RULES).
- 2. ELECTRICAL INSTALLATION SHALL COMPLY WITH THE LATEST QUEENSLAND ELECTRICITY CONNECTION MANUAL (QECM) & QUEENSLAND ELECTRICITY METERING MANUAL (QEMM).
- 3. FOR UNMETERED LIGHTING INSTALLATIONS REMOVE ENERGEX METER & POWER CIRCUIT FROM THE INSTALLATION.
- 4. PE CELL TO BE INSTALLED EXTERNALLY AND TO BE MOUNTED UNDER SWITCHBOARD ENCLOSURE.
- 5. THE ELECTRICAL CONDUIT TO BE INSTALLED INTERNALLY THROUGH THE STEEL POLE AND THEN UNDERGROUND TO TYPE 4 ELECTRICAL PIT.
- 6. MAIN SWITCHBOARD AND CONTROL ARRANGEMENT SHALL BE AVAILABLE FROM ANY REPUTABLE ELECTRICAL WHOLESALER.
- SEAL END OF CONDUITS WITH SILICON OR SIMILAR SUITABLE SEALANT TO PREVENT INGRESS OF VERMIN
- 8. ALL DIMENSIONS SHOWN ARE INDICATIVE ONLY
- 9. IF TYPE B CIRCUIT BREAKERS ARE USED IN THE INSTALLATION, CLEARLY LABEL WITH MECHANICALLY AFFIXED TRAFFOLYTE LABEL OR EQUIVALENT ADJACENT TO THE CIRCUIT BREAKER.
- 10. SWITCHBOARD TO BE LABELLED TO BCC STANDARD SEE EQUIPMENT LIST.
- 11. INSTALLATION SHALL COMPLY WITH BCC INFRASTRUCTURE INSTALLATION AND CONSTRUCTION REQUIREMENTS MANUAL (IICRM).
- 12. THE DATE OF INITIAL CERTIFICATION OF THE INSTALLATION SHALL BE AVAILABLE ON-SITE, BY PERMANENT, INDELIBLE MARKING LOCATED INSIDE THE SWITCHBOARD ABOVE THE MAIN NEUTRAL LINK.
- 13. LIGHTING CONTROL IS TYPICALLY VIA PE CELL ONLY. PE CELL/TIME SWITCH CONTROL CAN BE INSTALLED ONLY IF APPROVED BY BCC.
- 14. ALL FIXINGS AND SUPPORTS TO BE GALVANIZED.

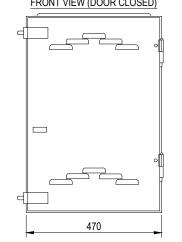
EQUIPMENT LIST		
ITEM	DESCRIPTION	
SWITCHBOARD ENCLOSURE	METER BOX - METAL, 21 MODULE SWITCHBOARD AND METER BOX - CLIPSAL OR APPROVED EQUIVALENT	
MAIN SWITCH	63 AMP CIRCUIT BREAKER - DIN RAIL MOUNTED - 6kA - CLIPSAL OR APPROVED EQUIVALENT	
POWER CIRCUIT (MCB/RCD COMBO)	20A - COMBINATION RCD/MCB, 1 MODULE, 1P+N, 30MA, 6KA, C-CURVE, STANDARD TYPE - CLIPSAL OR EQUAL APPROVED (DO NOT INSTALL IF INSTALLATION IS UNMETERED)	
LIGHT CIRCUIT (MCB/RCD COMBO)	AMP RATING OF RCBO DEPENDENT ON LIGHTING DESIGN - COMBINATION RCD/MCB, 1 MODULE, 1P+N, 30mA, 6kA, C-CURVE, STANDARD TYPE - CLIPSAL OR APPROVED EQUIVALENT	
AUTO / MANUAL CHANGEOVER SWITCH	ISOLATOR SWITCH, MANUAL CHANGEOVER SWITCH, 1 POLE, 1 MODULE, 40A, MARKED AUTO OFF MAN - DIN RAIL MOUNTED - CLIPSAL OR APPROVED EQUIVALENT	
CONTROL CIRCUIT BREAKER (MCB)	10 AMP - DIN RAIL MOUNTED - 6kA - CLIPSAL OR EQUAL APPROVED	
DIN RAIL MOUNT SOCKET OUTLET	250V 10A 3 PIN SOCKET OUTLET 4 MODULES WIDE - DIN RAIL MOUNTED	
NEUTRAL LINK	INSULATED BASE TYPE - 16mm² SIZE TERMINALS - 1 MEN + 6 - 2 SCREW TYPE - 100 AMP RATING	
EARTH LINK	16mm² SIZE TERMINALS - 1 MEN + 6 - 2 SCREW TYPE - 100 AMP RATING	
CONTACTOR	MINIMUM 63 AMP - AC3 - 4 POLE - 240V - DIN RAIL MOUNTED - HAGER OR APPROVED EQUIVALENT	
PE CELL	PHOTO MICROSWITCH - 1000 WATT OUTPUT - ATCO FM S220 BUTTON SIZE OR APPROVED EQUIVALENT	
2x HASP & STAPLES	160mm HINGED HASP AND STAPLE - HOT DIP GALVANISED - LOCKWOOD OR APPROVED EQUIVALENT	
2x PADLOCKS	BRISBANE CITY COUNCIL SUPPLIED AZ14 PADLOCKS	
EXTERNAL SWITCHBOARD LABEL	TO BCC STANDARD - e.g. D1234S1, R0001C - CONTACT BCC ASSET SERVICES PARKS (IF SWITCHBOARD INSTALLED IN PARK) OR ASSET SERVICES CITY LIGHTING (IF SWITCHBOARD INSTALLED IN ROAD RESERVE) FOR SPECIFIC LABEL AND NUMBERING	

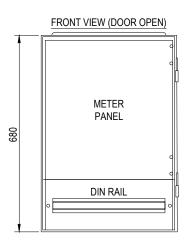
THE FITNESS FOR PURPOSE OF THIS STANDARD DRAWING FOR A SPECIFIC PROJECT SHALL BE ASSESSED AND ACCEPTED BY A SUITABLY QUALIFIED REGISTERED PROFESSIONAL ENGINEER OF QUEENSLAND (RPEQ).



TYPICAL PE CELL/TIME SWITCH LIGHTING CONTROL SCALE: N.T.S.

FRONT VIEW (DOOR CLOSED)





TYPICAL SWITCHBOARD ENCLOSURE DIMENSIONS SCALE: N.T.S.



280

SIDE VIEW





UNDERGROUND SUPPLY FOR SWITCHBOARD

 $\frac{\text{TYPICAL MOUNTED}}{\text{SWITCHBOARD}}$

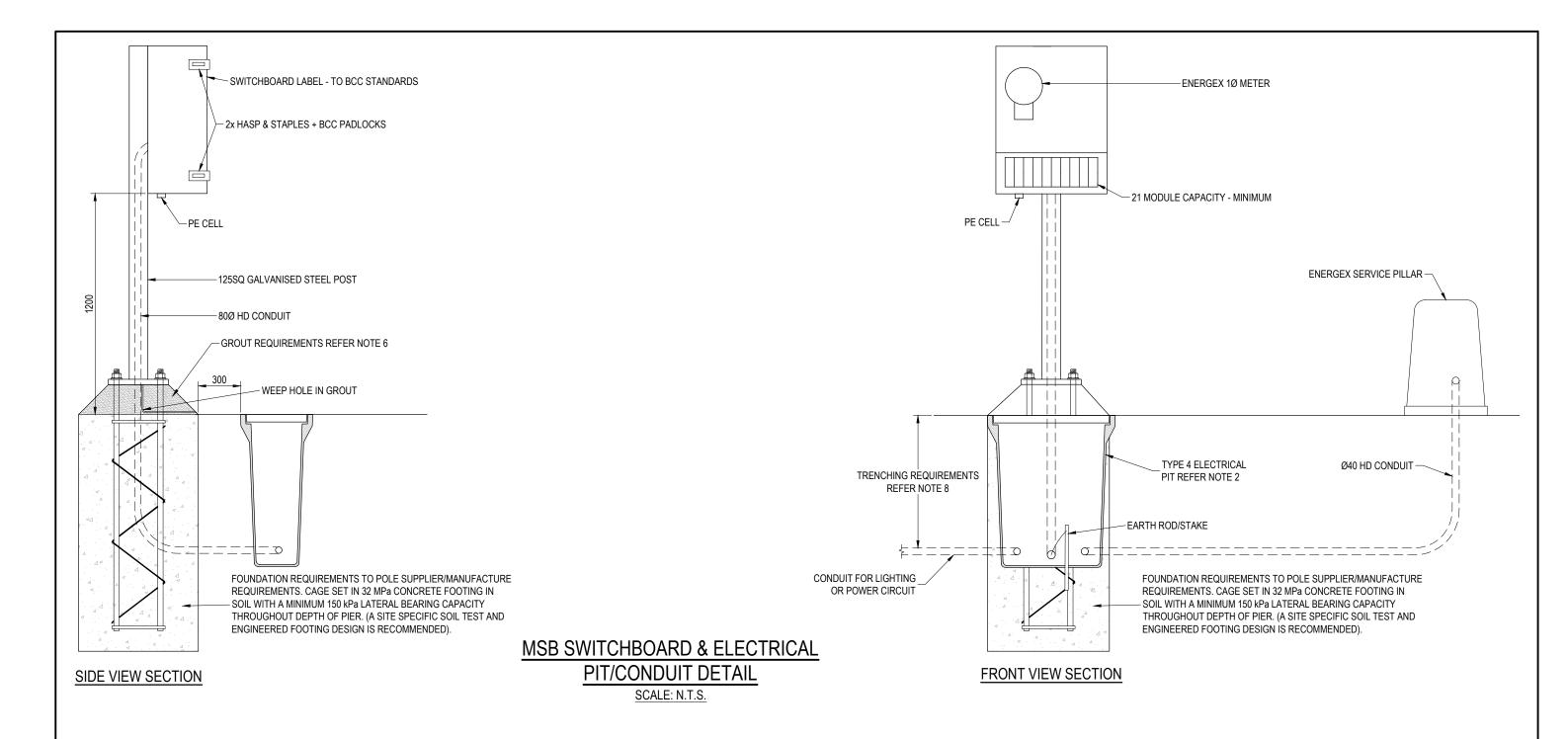
TYPICAL INTERNAL OF SWITCHBOARD



BRISBANE CITY COUNCIL STANDARD DRAWING

PARKS MAIN SWITCHBOARD UNDERGROUND SUPPLY - DETAILS SHEET 1 OF 4

	PUBLISH DATE		
	March 2021		
_	SCALE		
	NOT TO	SCALE	
	DRAWING NUMBER		
	BSD-	11101	
	ORIGINAL SIZE	REVISION	



- . ELECTRICAL INSTALLATION SHALL COMPLY WITH AS/NZS3000 (WIRING RULES).
- 2. TYPE 4 ELECTRICAL PIT WITH CONCRETE LID TO BE INSTALLED AT THE BASE OF THE SWITCHBOARD. FOR TYPE 4 ELECTRICAL PIT REFER TO BSD-1011 & BSD-1012. PIT LID TO BE LOAD RATED TO MINIMUM CLASS 'B' TO AS3996.
- 3. THE ELECTRICAL CONDUIT TO BE INSTALLED INTERNALLY THROUGH THE STEEL POLE AND THEN UNDERGROUND TO TYPE 4 ELECTRICAL PIT.
- 4. CONTACT GM POLES TO FABRICATE POST TOP GALVANISED BRACKET QUOTING PROJECT ID: 108670 or APPROVED EQUAL CAN BE FABRICATED.
- 5. SEAL END OF CONDUITS WITH SILICON OR SIMILAR SUITABLE SEALANT TO PREVENT INGRESS OF VERMIN.
- 6. SEAL EXTERNAL BASE OF POLES WITH MORTAR OR SIMILAR SUITABLE MATERIAL TO PREVENT INGRESS OF VERMIN. NON-SHRINK GROUT PLACED FLUSH WITH THE UNDERSIDE OF THE BASE PLATE & TAPER AWAY FROM POLE AT APPROXIMATELY 45°. A MINIMUM 12mm WEEP HOLE IS RECOMMENDED TO ALLOW FOR DRAINAGE OF CONDENSATION FROM INSIDE POLE.
- 7. ALL DIMENSIONS IN SHOWN ARE INDICATIVE ONLY.
- FOR TRENCH DEPTHS/TRENCHING REQUIREMENTS REFER TO BSD-4015 AND S145 INSTALLATION AND MAINTENANCE OF UTILITY SERVICES.
- 9. ALL FIXINGS AND SUPPORTS TO BE GALVANIZED.

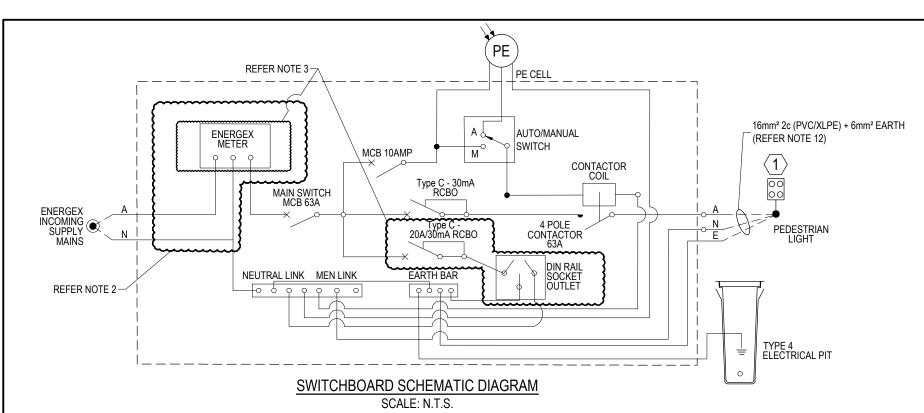
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BRISBANE CITY COUNCIL STANDARD DRAWING

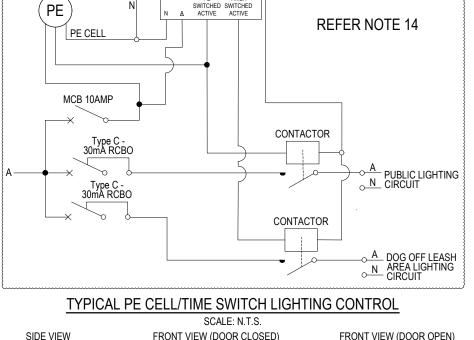
PARKS MAIN SWITCHBOARD UNDERGROUND SUPPLY - INSTALLATION SHEET 2 OF 4

		,
	PUBLISH DATE	
	March	2021
_	SCALE	
	NOT TO	SCALE
	DRAWING NUMBER	
	BSD-′	11101
	ORIGINAL SIZE	REVISION
	A3	Α

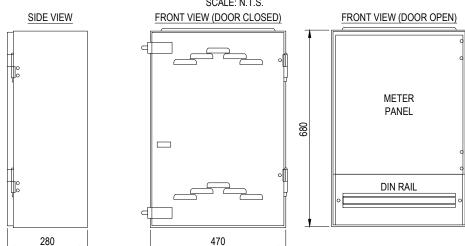


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- FOR UNMETERED LIGHTING INSTALLATIONS REMOVE ENERGEX METER & POWER CIRCUIT FROM THE INSTALLATION.
- PE CELL TO BE INSTALLED EXTERNALLY AND TO BE MOUNTED UNDER SWITCHBOARD ENCLOSURE.
- THE ELECTRICAL CONDUIT FIXED TO TIMBER POLE SHALL BE MECHANICALLY PROTECTED BY A HOT DIP GALVANISED SURFACE MOUNT CABLE COVER.
- MAIN SWITCHBOARD AND CONTROL ARRANGEMENT SHALL BE AVAILABLE FROM ANY REPUTABLE ELECTRICAL WHOLESALER.
- SEAL ENDS OF CONDUITS WITH SILICON OR SIMILAR SUITABLE SEALANT TO PREVENT INGRESS OF VERMIN.
- SEAL EXTERNAL BASE OF STEEL POLES WITH MORTAR OR SIMILAR SUITABLE MATERIAL TO PREVENT INGRESS OF VERMIN
- ALL DIMENSIONS SHOWN ARE INDICATIVE ONLY.
- IF TYPE B CIRCUIT BREAKERS ARE USED IN THE INSTALLATION, CLEARLY LABEL WITH MECHANICALLY AFFIXED TRAFFOLYTE LABEL OR EQUIVALENT ADJACENT TO THE CIRCUIT BREAKER.
- SWITCHBOARD TO BE LABELLED TO BCC STANDARD SEE EQUIPMENT LIST.
- INSTALLATION SHALL COMPLY WITH BCC INFRASTRUCTURE INSTALLATION AND CONSTRUCTION REQUIREMENTS MANUAL (IICRM).
- THE DATE OF INITIAL CERTIFICATION OF THE INSTALLATION SHALL BE AVAILABLE ON-SITE, BY PERMANENT, INDELIBLE MARKING LOCATED INSIDE THE SWITCHBOARD ABOVE THE MAIN NEUTRAL LINK.
- 14. LIGHTING CONTROL IS TYPICALLY VIA PE CELL ONLY. PE CELL/TIME SWITCH CONTROL CAN BE INSTALLED ONLY IF APPROVED BY BCC.
- 15. ALL FIXINGS AND SUPPORTS TO BE GALVANIZED.

EQUIPMENT LIST		
ITEM	DESCRIPTION	
SWITCHBOARD ENCLOSURE	METER BOX - METAL, 21 MODULE SWITCHBOARD AND METER BOX - CLIPSAL OR APPROVED EQUIVALENT	
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POWER CIRCUIT (MCB/RCD COMBO)	20A - COMBINATION RCD/MCB, 1 MODULE, 1P+N, 30mA, 6kA, C-CURVE, STANDARD TYPE - CLIPSAL OR APPROVED EQUIVALENT (DO NOT INSTALL IF INSTALLATION IS UNMETERED)	
LIGHT CIRCUIT (MCB/RCD COMBO)	AMP RATING OF RCBO DEPENDENT ON LIGHTING DESIGN - COMBINATION RCD/MCB, 1 MODULE,1P+N, 30mA, 6kA, C-CURVE, STANDARD TYPE - CLIPSAL OR APPROVED EQUIVALENT	
AUTO / MANUAL CHANGEOVER SWITCH	ISOLATOR SWITCH, MANUAL CHANGEOVER SWITCH, 1 POLE, 1 MODULE, 40A, MARKED AUTO OFF MAN - DIN RAIL MOUNTED - CLIPSAL OR APPROVED EQUIVALENT	
CONTROL CIRCUIT BREAKER (MCB)	10 AMP - DIN RAIL MOUNTED - 6kA - CLIPSAL OR APPROVED EQUIVALENT	
DIN RAIL MOUNT SOCKET OUTLET	250V 10A 3 PIN SOCKET OUTLET 4 MODULES WIDE - DIN RAIL MOUNTED	
NEUTRAL LINK	INSULATED BASE TYPE - 16mm² SIZE TERMINALS - 1 MEN + 6 - 2 SCREW TYPE - 100 AMP RATING	
EARTH LINK	16mm² SIZE TERMINALS - 1 MEN + 6 - 2 SCREW TYPE - 100 AMP RATING	
CONTACTOR	MINIMUM 63 AMP - AC3 - 4 POLE - 240V - DIN RAIL MOUNTED - HAGER OR APPROVED EQUIVALENT	
PE CELL	PHOTO MICROSWITCH - 1000 WATT OUTPUT - ATCO FM S220 BUTTON SIZE OR APPROVED EQUIVALENT	
2x HASP & STAPLES	160mm HINGED HASP AND STAPLE - HOT DIP GALVANISED - LOCKWOOD OR APPROVED EQUIVALENT	
2x PADLOCKS	BRISBANE CITY COUNCIL supplied AZ14 PADLOCKS	
EXTERNAL SWITCHBOARD LABEL	TO BCC STANDARD - e.g. D1234S1, R0001C - CONTACT BCC ASSET SERVICES PARKS (IF SWITCHBOARD INSTALLED IN PARK) OR ASSET SERVICES CITY LIGHTING (IF SWITCHBOARD INSTALLED IN ROAD RESERVE) FOR SPECIFIC LABEL AND NUMBERING	

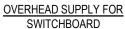


TIMER



TYPICAL SWITCHBOARD ENCLOSURE DIMENSIONS







TYPICAL MOUNTED SWITCHBOARD



TYPICAL INTERNAL OF SWITCHBOARD

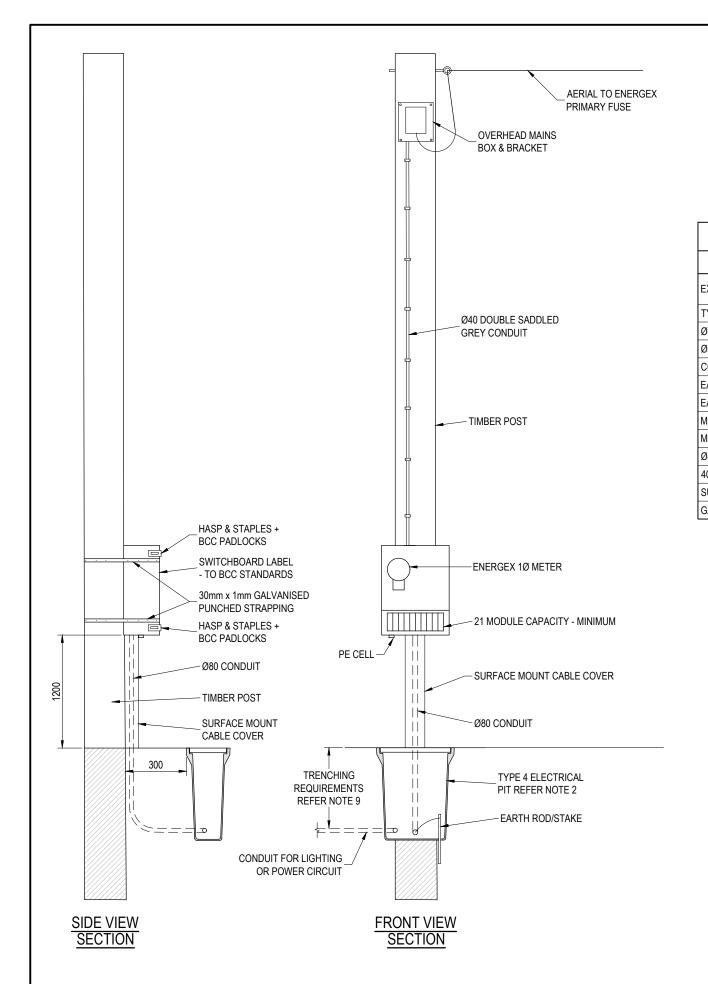
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BRISBANE CITY COUNCIL STANDARD DRAWING

PARKS MAIN SWITCHBOARD **OVERHEAD SUPPLY - DETAILS**

`	PUBLISH DATE
G	March 2021
	SCALE
	NOT TO SCALE
	DRAWING NUMBER
	BSD-11101

ORIGINAL SIZE SHEET 3 OF 4 REVISION



EQUIPMENT LIST			
ITEM	DESCRIPTION		
EXTERNAL SWITCHBOARD LABEL	TO BCC STANDARD - e.g. D1234S1, R0001C - CONTACT BCC ASSET SERVICES PARKS (IF SWITCHBOARD INSTALLED IN PARK) OR ASSET SERVICES CITY LIGHTING (IF SWITCHBOARD INSTALLED IN ROAD RESERVE) FOR SPECIFIC LABEL AND NUMBERING		
TYPE 4 ELECTRICAL PIT	PLASTIC TYPE 4 ELECTRICAL PIT WITH CONCRETE LID - ADCO OR APPROVED EQUIVALENT - REFER NOTE 2		
Ø80 HD CONDUIT	1X 4M HEAVY DUTY (HD) CONDUIT FROM ELECTRICAL PIT TO SWITCHBOARD		
Ø80 HD CONDUIT	1X Ø80 HEAVY DUTY (HD) SWEEP		
COPPER PLATED EARTH ROD	SITE SPECIFIC EARTH STAKE/ROD		
EARTH STAKE CLAMP	EARTH STAKE CLAMP SPECIFIC TO EARTH ROD		
EARTH LABEL	'DO NOT DISCONNECT' EARTH TAG		
MAINS BOX - SINGLE PHASE	SICAME MAINS BOX MCB1-2HAE OR APPROVED EQUIVALENT		
MAINS BOX BRACKET	U SHAPE - SINGLE PHASE (TIMBER POLE MOUNT)		
Ø40 MD CONDUIT	3 X Ø40 MEDIUM DUTY (MD) CONDUIT FROM MAINS BOX TO BOTTOM OF SWITCHBOARD ENTRY.		
40mm DOUBLE SADDLES - GALVANISED	CLIPSAL 173HDGM SADDLE DOUBLE SIDED 40mm HEAVY DUTY GALVANISED OR APPROVED EQUIVALENT.		
SURFACE MOUNT CABLE COVER	B&R 100mm x 1200mm SURFACE MOUNTED HAT SECTION (TIMBER POLE MOUNTING) OR APPROVED EQUIVALENT		
GALVANISED PUNCHED STRAPPING	ABEY 30mm x 1mm GALVANISED PUNCHED STRAPPING (TO BRACE SWITCHBOARD TO TIMBER POLE) OR APPROVED EQUIVALENT		

- . ELECTRICAL INSTALLATION SHALL COMPLY WITH AS/NZS3000 (WIRING RULES).
- 2. TYPE 4 ELECTRICAL PIT WITH CONCRETE LID TO BE INSTALLED AT THE BASE OF THE SWITCHBOARD. FOR TYPE 4 ELECTRICAL PIT REFER TO BSD-1011 & BSD-1012. PIT LID TO BE LOAD RATED TO MINIMUM CLASS 'B' TO AS3996.
- . ALL CONDUITS SHALL BE FIXED VIA DOUBLE SADDLES.
- I. THE ELECTRICAL CONDUITS SHALL BE MECHANICALLY PROTECTED BY A HOT DIP GALVANISED SURFACE MOUNT CABLE COVER (HAT SECTION) TO PREVENT DAMAGE TO ELECTRICAL CONDUITS FROM MECHANICAL EQUIPMENT E.G. MOWERS, WHIPPER SNIPPERS ETC...
- 5. SWITCHBOARD SHALL BE STRAPPED AT TOP AND BOTTOM TO THE POLE VIA GALVANISED PUNCHED STRAPPING PURCHASED FROM ELECTRICAL WHOLESALER.
- 6. SEAL END OF CONDUITS WITH SILICON OR SIMILAR SUITABLE SEALANT TO PREVENT INGRESS OF VERMIN.
- 7. SEAL EXTERNAL BASE OF STEEL POLES WITH MORTAR OR SIMILAR SUITABLE MATERIAL TO PREVENT INGRESS OF VERMIN. NON-SHRINK GROUT PLACED FLUSH WITH THE UNDERSIDE OF THE BASE PLATE & TAPER AWAY FROM POLE AT APPROXIMATELY 45°. A MINIMUM 12mm WEEP HOLE IS RECOMMENDED TO ALLOW FOR DRAINAGE OF CONDENSATION FROM INSIDE POLE.
- 8. ALL DIMENSIONS IN SHOWN ARE INDICATIVE ONLY.
- 9. FOR TRENCH DEPTHS/TRENCHING REQUIREMENTS REFER TO BSD-4015 AND S145 INSTALLATION AND MAINTENANCE OF UTILITY SERVICES.
- 10. ALL FIXINGS AND SUPPORTS TO BE GALVANIZED.

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BRISBANE CITY COUNCIL STANDARD DRAWING

PARKS MAIN SWITCHBOARD OVERHEAD SUPPLY - INSTALLATION SHEET 4 OF 4

	PUBLISH DATE
	March 2021
-	SCALE
	NOT TO SCALE
	DRAWING NUMBER
	BSD-11101
	ORIGINAL SIZE REVISION

MSB SWITCHBOARD & ELECTRICAL

PIT/CONDUIT DETAIL

SCALE: NTS

GENERAL NOTES:

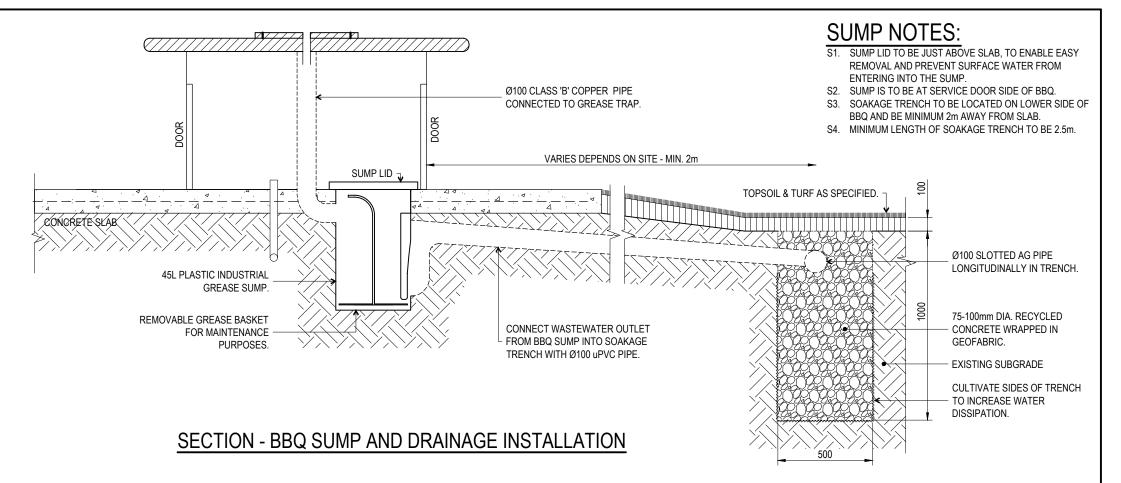
- AT A MINIMUM ALL CONCRETE TO BE GRADE N25 BROOM FINISHED 125mm MINIMUM THICKNESS. ALL CONCRETE WORKS TO BE REINFORCED MIN SL72 MESH. ENSURE MIN TOP AND BOTTOM COVER OF 50mm.
- CARRY OUT WET PENDULUM TEST SLIP RESISTANCE TESTING ON BBQ SLAB TO AS/NZS4586 FOR ALL NEW SURFACES - LEVEL TO BE CLASSIFIED AS CLASS 'P5' (>44 MEAN BPN USING A SLIDER 55 (TRL) RUBBER PAD) TO AS/NZS4586.
 - NO ADDITIONAL APPLIED SLIP RESISTANCE TREATMENT IS PERMITTED. CONTRACTOR IS TO UNDERTAKE A SLIP RESISTANCE TEST TO NEW SURFACES IF REQUESTED BY THE SUPERINTENDENT AT NO ADDITIONAL COST.
- SLIP RESISTANCE TESTING TO BE UNDERTAKEN WITH A BRITISH PENDULUM TEST USING A SLIDER 55 (TRL) RUBBER PAD AND RECORDED AND PRESENTED AS A BPN BY A SUITABLY ACCREDITED NATA LABORATORY.ALL CONCRETE AREAS TO HAVE 1:50 MINIMUM CROSSFALL AWAY FROM BBQ.
- AUSTRALIAN STANDARDS SHALL BE IN ACCORDANCE WITH THE CURRENT EDITIONS OF THE REFERENCED AUSTRALIAN STANDARDS EXCEPT WHERE VARIED BY SPECIFICATIONS AND/OR DRAWINGS.
- 5. DIMENSIONS IN MILLIMETRES. (U.N.O.).

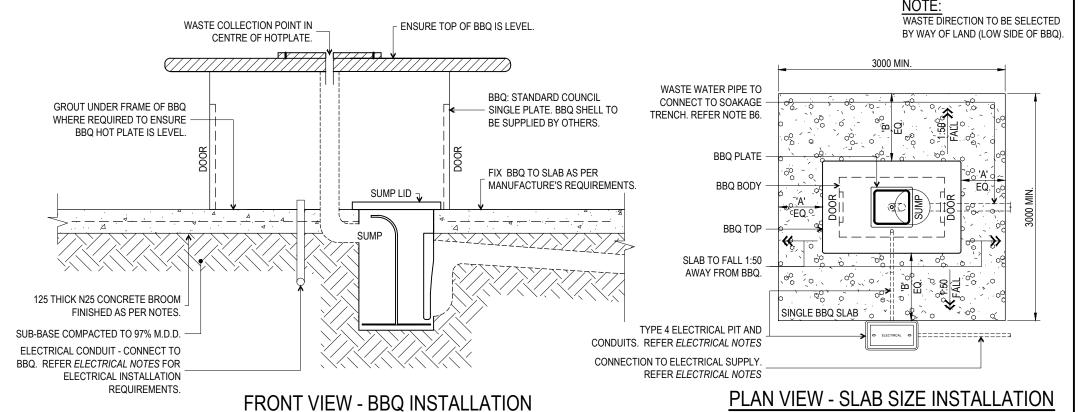
INSTALLATION NOTES

- B1. SLAB SIZE IS SHOWN AS A MINIMUM. SIZE OF SLAB MAY INCREASE AT NODAL POINTS OR WHERE ADDITIONAL CIRCULATION SPACE AROUND BBQ IS REQUIRED.
- 32. PROVIDE LIGHTING WHERE SPECIFIED FOR BBQ PICNIC NODE.
- B3. CONSTRUCT GREASE TRAP AND SOAKAGE TRENCH AS SHOWN.
- B4. WASTE DIRECTION TO BE ON THE LOW SIDE AND SELECTED BY LAY OF LAND ON A SITE BY SITE BASIS.
- B5. SUMP AND COPPER PIPING TO BE INSTALLED BY QUALIFIED PLUMBER. COPPER PIPING TO BE CLASS 'B' Ø100mm.
- B6. ENSURE MOWN HEIGHT OF GRASS (TURF) AREAS FINISHES FLUSH WITH PAVEMENT AREA.
- B7. ENSURE GARDEN AREAS (MULCH) FINISH 25mm BELOW ADJACENT F.S.L'S OF PAVEMENT AREAS.
- WHERE APPLICABLE INCORPORATE BBQ AS PART OF INTEGRATED PICNIC SETTING NODES (REFER BSD-10101).
- 39. ENSURE BBQS ARE LOCATED AND LANDSCAPED IN ACCORDANCE WITH DETAILED LANDSCAPE PLAN, AND PARKS CHAPTER OF INFRASTRUCTURE DESIGN PLANNING SCHEME POLICY

ELECTRICAL NOTES:

- E1. ALL ELECTRICAL WORK TO BE UNDERTAKEN BY A QUALIFIED ELECTRICIAN.
- E2. BBQ ELECTRICAL SUPPLY TO BE FROM A METERED SUPPLY REFER TO BSD-11001 AND MANUFACTURER'S SPECIFICATIONS FOR REQUIRED POWER SUPPLY.
- E3. CIRCUIT PROTECTION TO BE INSTALLED IN ACCORDANCE WITH AS/NZS60335.2.78 AND AS/NZS3000.
- E4. NO PROTECTIVE DEVICES, INCLUDING SUBBOARDS, BE INSTALLED WITHIN THE BBQ HOUSING.
- ACTIVE CABLE SIZE TO BE A MINIMUM OF 6mm².
- E6. ORANGE CIRCULAR CABLE SHALL BE UTILISED.
- E7. A SEPARATE CIRCUIT PER BBQ MUST BE PROVIDED WITH A 16A RCBO TYPE C BREAKER IN THE SUPPLYING SWITCHBOARD.
- E8. ELECTRICAL CABLES MUST BE SIZED SO THAT VOLTAGE DROP ON BBQ FINAL SUBCIRCUIT ACCOUNTS FOR FULL DEMAND UTILISATION OF THE ELECTRICAL SUPPLY CONNECTION.
- E9. BBQ HOUSING SHALL BE BONDED TO THE EARTH CABLE (4mm² MIN.) OF CIRCUIT FOR A SINGLE BBQ AS PER THE REQUIREMENTS OF A CLASS 1 INSTALLATION.
- E10. INSTALL A TYPE 4 PIT ADJACENT TO THE BBQ SLAB FOR TRANSITION OF UNDERGROUND CONDUIT NETWORK INTO BBQ.
- E11. CONDUITS, BACKBONE PREFERENCE 100mm, MINIMUM 63mm (DIRECTIONAL BORE) HIGH DENSITY POLYETHYLENE (HDPE) OR 80mm (MANUAL EXCAVATION) HEAVY DUTY (HD). PIT TO BBQ MINIMUM 50mm PER BBQ PLATE.
- E12. ALL INTERNAL CONDUITS SHOULD BE AFFIXED AND ENCLOSURES IP54
- E13. FOR ALL ELECTRIC BBQ INSTALLATIONS TO UTILISE A PLUG'N'PLAY COOKING SYSTEM AS SUPPLIED BY THE COUNCIL PANEL PROVIDER, A SINGLE IP54 15 AMP POWER POINT IS REQUIRED FOR EACH COOKING HOTPLATE.
- E14. DESIGN TO BE COMPLIANT WITH QLD ELECTRICITY CONNECTION MANUAL (QECM) AND QLD ELECTRICITY CONNECTION & METERING MANUAL (QEMM).
- E15. ELECTRICAL DRAWING TO BE CERTIFIED BY SUITABLY QUALIFIED RPEQ.





OF THE BRISBANE CITY PLAN 2014 AND ASSOCIATED PLANNING SCHEME POLICIES. THE FITNESS FOR PURPOSE OF THIS STANDARD DRAWING FOR A SPECIFIC PROJECT SHOULD BE ASSESSED AND ACCEPTED BY AN APPROPRIATELY QUALIFIED DESIGNER AND/OR REGISTERED PROFESSIONAL ENGINEER OF QUEENSLAND (RPEQ).

THE PURPOSE OF THIS STANDARD DRAWING IS TO PROVIDE

TYPICAL DETAILS THAT SUPPORT THE DESIRED OUTCOMES



BRISBANE CITY COUNCIL STANDARD DRAWING

BRISBANE CITY COUNCIL STANDARD ELECTRIC SINGLE BBQ SHEET 1 OF 2 PUBLISH DATE
SEP 2024

SCALE
NOT TO SCALE
DRAWING NUMBER

BSD-11123

ORIGINAL SIZE
REVISION
A3
D

GENERAL NOTES:

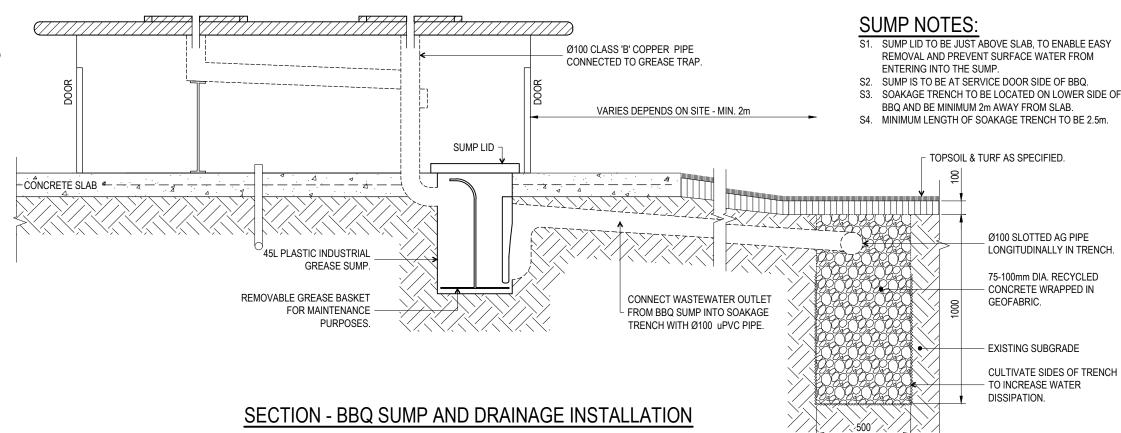
- 1. AT A MINIMUM ALL CONCRETE TO BE GRADE N25 BROOM FINISHED 125mm MINIMUM THICKNESS. ALL CONCRETE WORKS TO BE REINFORCED MIN SL72 MESH, ENSURE MIN TOP AND BOTTOM COVER OF 50mm
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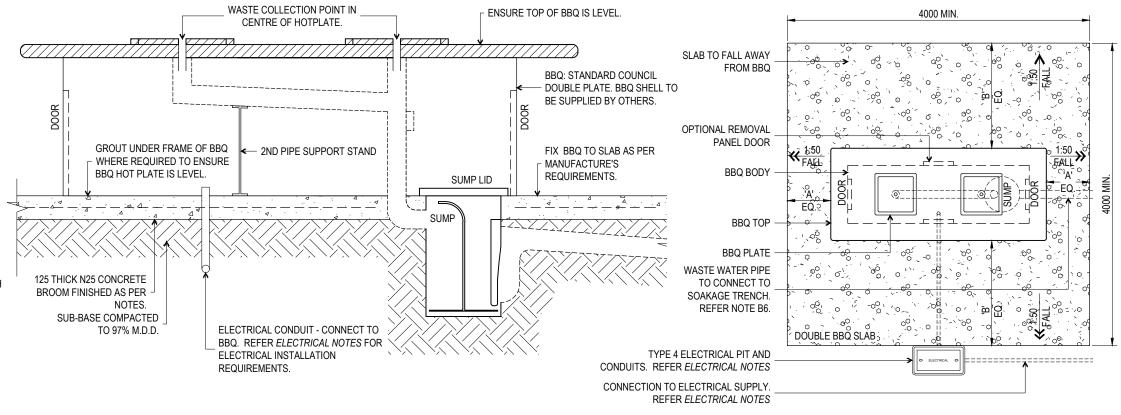
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FRONT VIEW - BBQ INSTALLATION

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BRISBANE CITY COUNCIL STANDARD DRAWING

BRISBANE CITY COUNCIL STANDARD **ELECTRIC DOUBLE BBQ** SHEET 2 OF 2

PLAN VIEW - SLAB SIZE INSTALLATION SEP 2024 NOT TO SCALE RAWING NUMBE BSD-11123 ORIGINAL SIZE D