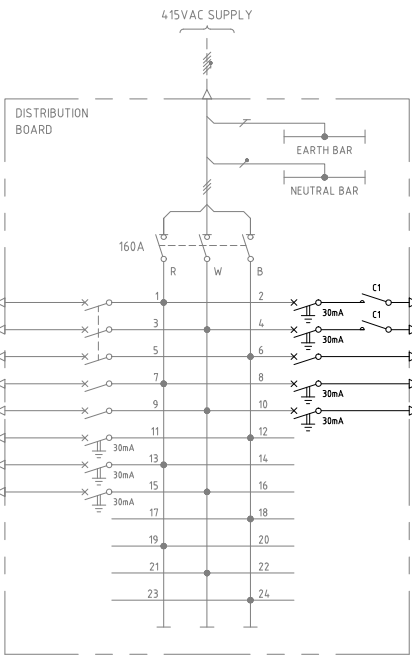


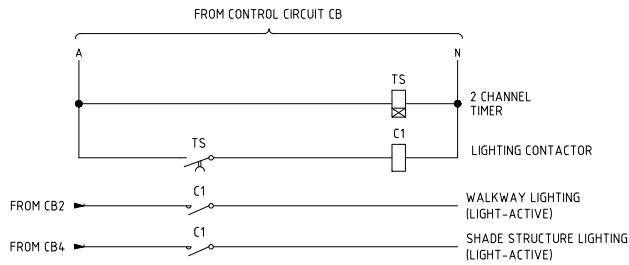
NOTE

- THIS DRAWING SHOWS COMPONENTS TO BE ADDED TO EXISTING DISTRIBUTION BOARD AS INDICATED ON LAYOUT DRAWING 25145-000-EL-07-0001.
- GREYED OUT COMPONENTS ARE EXISTING AND ARE SHOWN FOR CLARITY. CONTRACTOR TO CONFIRM CURRENT ARRANGEMENT AND AVAILABILITY IN DISTRIBUTION BOARD ON SITE PRIOR TO THE COMMENCEMENT OF ANY WORKS.

DESCRIPTION	CB RATING	CIRCUIT No.
SPARE	32A	RWB1/3/5
SPARE	10A	R7
SPARE	16A	W9
EXISTING CIRCUIT (NOTE 2)	xA	B11
EXISTING CIRCUIT (NOTE 2)	xA	R13
	xA	W15
		B17
		R19
		W21
		B23



CIRCUIT No.	CB RATING	DESCRIPTION
R2	16A	WALKWAY LIGHTING
W4	16A	SHADE STRUCTURE LIGHTING
B6	16A	CONTROL CIRCUIT
R8	16A	CURTAIN BROS. SLIPWAY CCTV
W10	16A	VIEWING PLATFORM CCTV
B12		
R14		
W16		
B18		
R20		
W22		
B24		



LIGHTING CONTROL CIRCUIT DETAIL

PLANS AND DOCUMENTS referred to in the PDA DEVELOPMENT APPROVAL
Approval no: DEV-2026-TRY-4869
Date: 29 May 2026



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CONSTRUCTION

REFERENCE DRG'S	DRAWING	DRAWING TITLE

REVISIONS	REV	ISSUED FOR TENDER	JL	MD	DH	17.04.26
		REVISION DESCRIPTION	DRAWN	CHECKED	APPROVED	DATE

APPROVALS	DRAWN	CHECKED	DESIGNED	ENG. APPROVED	PROJ. APPROVED

DRAWINGS WHERE APPLICABLE ARE THIRD ANGLE PROJECTION



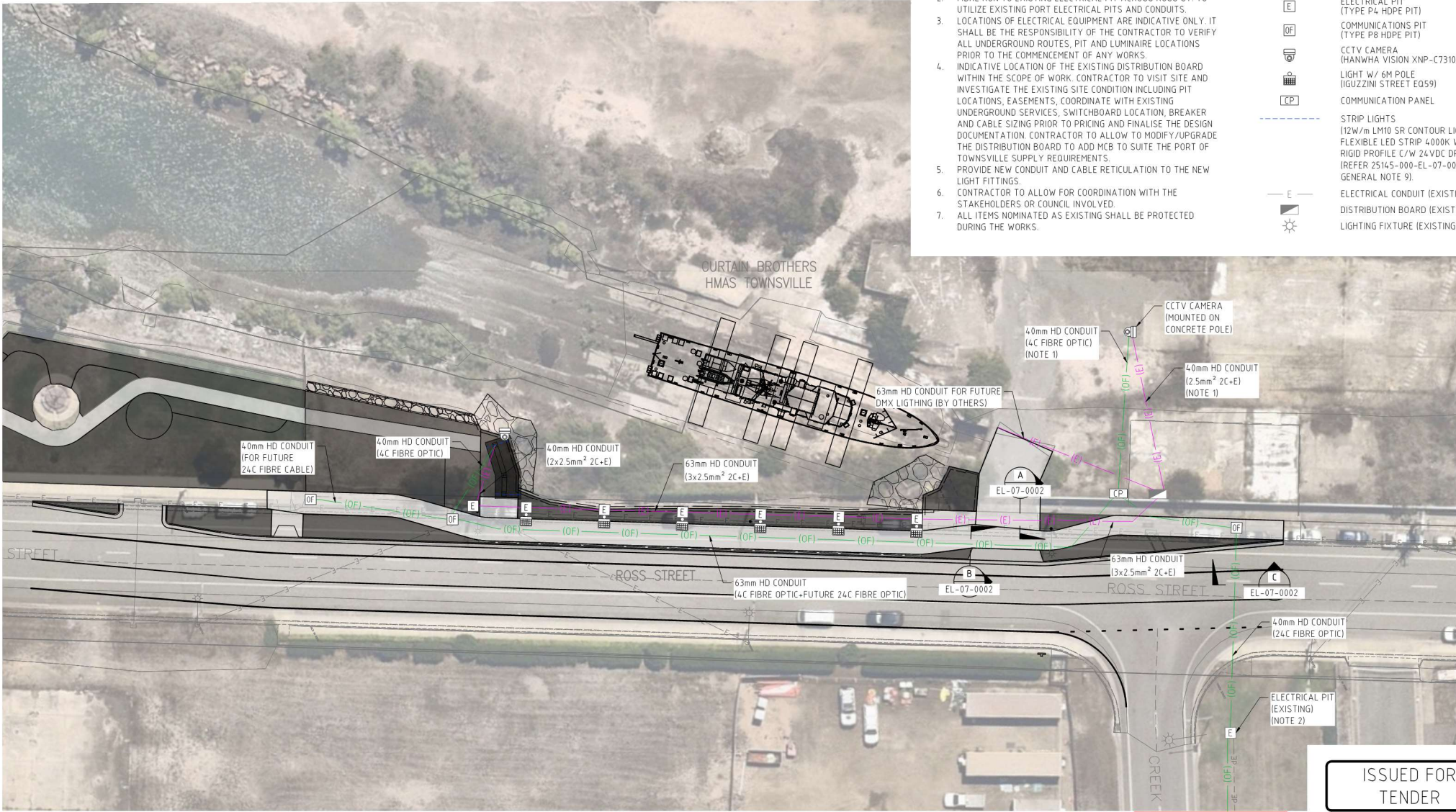
PORT OF TOWNSVILLE LIMITED WATERFRONT CORRIDOR UPGRADE - SECTION 3 DISTRIBUTION BOARD SCHEMATIC DIAGRAM					
SHEET	SCALE	DRAWING NUMBER		REV	
A1	NTS	25145-000-EL-02-0001		B	

NOTES

1. CONDUIT TO CCTV IN CURTAIN BROTHERS SLIPWAY TO BE RUN ABOVE GROUND IN HEAVY DUTY CONDUIT AND PROTECTED WITH SPFD HUMP CABLE PROTECTOR
2. FIBRE RUN TO EXISTING ELECTRICAL PIT ACROSS ROSS ST. TO UTILIZE EXISTING PORT ELECTRICAL PITS AND CONDUITS.
3. LOCATIONS OF ELECTRICAL EQUIPMENT ARE INDICATIVE ONLY. IT SHALL BE THE RESPONSIBILITY OF THE CONTRACTOR TO VERIFY ALL UNDERGROUND ROUTES, PIT AND LUMINAIRE LOCATIONS PRIOR TO THE COMMENCEMENT OF ANY WORKS.
4. INDICATIVE LOCATION OF THE EXISTING DISTRIBUTION BOARD WITHIN THE SCOPE OF WORK. CONTRACTOR TO VISIT SITE AND INVESTIGATE THE EXISTING SITE CONDITION INCLUDING PIT LOCATIONS, EASEMENTS, COORDINATE WITH EXISTING UNDERGROUND SERVICES, SWITCHBOARD LOCATION, BREAKER AND CABLE SIZING PRIOR TO PRICING AND FINALISE THE DESIGN DOCUMENTATION. CONTRACTOR TO ALLOW TO MODIFY/UPGRADE THE DISTRIBUTION BOARD TO ADD MCB TO SUITE THE PORT OF TOWNSVILLE SUPPLY REQUIREMENTS.
5. PROVIDE NEW CONDUIT AND CABLE RETICULATION TO THE NEW LIGHT FITTINGS.
6. CONTRACTOR TO ALLOW FOR COORDINATION WITH THE STAKEHOLDERS OR COUNCIL INVOLVED.
7. ALL ITEMS NOMINATED AS EXISTING SHALL BE PROTECTED DURING THE WORKS.

LEGEND

- (E) ELECTRICAL CONDUIT
- (OF) COMMUNICATION CONDUIT
- E ELECTRICAL PIT (TYPE P4 HDPE PIT)
- OF COMMUNICATIONS PIT (TYPE P8 HDPE PIT)
- CCTV CAMERA (HANWHA VISION XNP-C7310R)
- LIGHT W/ 6M POLE (IGUZZINI STREET EQ59)
- CP COMMUNICATION PANEL
- STRIP LIGHTS (12W/m LM10 SR CONTOUR LIGHT FLEXIBLE LED STRIP 4000K WITH RIGID PROFILE C/W 24VDC DRIVER (REFER 25145-000-EL-07-0003 GENERAL NOTE 9).
- E ELECTRICAL CONDUIT (EXISTING)
- DISTRIBUTION BOARD (EXISTING)
- LIGHTING FIXTURE (EXISTING)



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PLANS AND DOCUMENTS referred to in the PDA DEVELOPMENT APPROVAL

Approval no: DEV-2026-TRY-4669

Date: 29 May 2026

Queensland Government

REFERENCE Dwg's	
	DRAWING TITLE
25145-000-EL-07-0002	ELECTRICAL AND COMMUNICATIONS TRENCHING DETAILS
DRAWING	DRAWING TITLE

REVISIONS					
	REV	REVISION DESCRIPTION	DRAWN	CHECKED	APPROVED
B	ISSUED FOR TENDER	JL	MD	DH	17.04.26
REV					

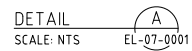
APPROVALS					
	DUTY	NAME	DATE		
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DESIGNED					
ENG. APPROVED					
PROJ. APPROVED					

DRAWINGS WHERE APPLICABLE ARE THIRD ANGLE PROJECTION



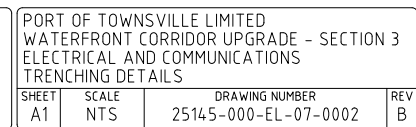
PORT OF TOWNSVILLE LIMITED WATERFRONT CORRIDOR UPGRADE - SECTION 3 ELECTRICAL AND COMMUNICATIONS GENERAL ARRANGEMENT			
SHEET	SCALE	DRAWING NUMBER	REV
A1	NTS	25145-000-EL-07-0001	B

1. DEPTH OF COVER FOR ROAD CROSSING TO BE AS CLOSE TO 600mm AS POSSIBLE WITHOUT CAUSING INTERRUPTION TO EXISTING BURIED SERVICES.



REVISIONS					
B	ISSUED FOR TENDER	JL	MD	DH	17.04.21
REV	REVISION DESCRIPTION	DRAWN	CHECKED	APPROVED	DATE

 DRAWINGS WHERE APPLICABLE ARE THIRD ANGLE PROJECTION



PLANS AND DOCUMENTS
referred to in the PDA
DEVELOPMENT APPROVAL

Approval no: DEV-2026-TRY-4669

Date: 29 May 2026


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Government

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	1	2	3	4	5	6	7	8	9	10	11	12																																																																		
A	GENERAL NOTES 1. ALL ROAD AND PATHWAY LIGHTING SHALL BE IN ACCORDANCE WITH AS/NZS 1158. 2. ALL ELECTRICAL INSTALLATIONS SHALL BE IN STRICT ACCORDANCE WITH AS/NZS 3000 ELECTRICAL WIRING RULES, AS/NZS 3008, BCA AND RELEVANT STATE APPLICABLE REGULATIONS. 3. DRAWINGS MUST BE READ IN CONJUNCTION WITH THE TOTAL CONTRACT PACKAGE INCLUDING THE DRAWINGS AND SPECIFICATIONS OF ALL CONSULTANTS. 4. ALL EXISTING CONDUITS AND PITS SHOWN ON THE DRAWINGS HAVE BEEN TAKEN FROM VARIOUS AS-BUILTS AND SURVEY INFORMATION. THESE ARE TO BE USED AS A GUIDE ONLY AND FINAL SITE COORDINATION/INVESTIGATION WITH EXISTING SERVICES SHALL BE THE RESPONSIBILITY OF THE APPOINTED CONTRACTOR AND THEIR SUB-CONTRACTORS. 5. PITS AND CONDUITS AND SHALL BE INSTALLED IN ACCORDANCE WITH MRTS91: CONDUITS AND PITS TMR STD DRG 1149. 6. LIGHTING SHALL BE INSTALLED IN ACCORDANCE WITH MRTS94: ROAD LIGHTING AND TMR STD DRGS. 7. LIGHTING POLES SHALL BE FABRICATED IN ACCORDANCE WITH MRTS97: MOUNTING STRUCTURES FOR ROADSIDE EQUIPMENT AND TMR STD DRGS. 8. INSTALL IGUZZINI STREET POLETOP FITTING (EQ59 8640LM 55.9W 4000K BLACK COLOUR). 9. CONTRACTOR TO LIAISE WITH LIGHTING MANUFACTURER TO DETERMINE 24VDC LED DRIVER QUANTITIES, LOCATIONS AND ELV DISTRIBUTION. LED DRIVERS SHALL BE INSTALLED WITHIN A PVC IP55 ENCLOSURE IN THE PLATFORM CEILING VOID. LED DRIVER ENCLOSURES SHALL BE PROVIDED WITH A DIN-RAIL MOUNTED LV ISOLATOR THAT PERMITS LOOP-IN, LOOP-OUT WIRING. PROVIDE LABEL ON FACE OF ENCLOSURE NOTING THE CIRCUIT REFERENCE AND TEXT "ISOLATE DRIVER BOX AT SWITCHBOARD BEFORE OPENING". 10. MULTICORE CABLES SHALL BE XLPE/PVC OR PVC/PVC. USE OF TPS FLAT CABLES IS NOT PERMITTED.											A																																																																		
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C	SPECIFICATION NOTES SCOPE OF WORKS THE WHOLE WORKS SHALL BE CARRIED OUT IN ACCORDANCE WITH THE CONSTRUCTION PROGRAMME, THE REQUIREMENTS OF THE SPECIFICATION AND GOOD TRADE PRACTICE. THE WORK SHALL INCLUDE ALL NECESSARY AND INCIDENTAL WORK AND FITTINGS THAT WHILE NOT SPECIFICALLY MENTIONED ARE NECESSARY FOR THE PROPER COMPLETION OF THE INSTALLATION. THE WORKS SHALL COMPRISE THE INSTALLATION/CONSTRUCTION, DETAILING AND DOCUMENTATION, COORDINATION, SHOP DRAWING, SUPPLY, DELIVERY, COMPUTATION, PLACING INTO SERVICE, SITE FINISHING, IDENTIFICATION, TRAINING OF RELEVANT SITE PERSONNEL AND THE PROVISION OF MANUFACTURER RECOMMENDED SPARE PARTS FOR THE EQUIPMENT AND SYSTEMS SPECIFIED WITHIN THE DOCUMENTATION PACKAGE. THIS INCLUDES BUT IS NOT LIMITED TO THE FOLLOWING: • ADDITIONS TO EXISTING DISTRIBUTION BOARDS; • PROTECTIVE DEVICES INCLUDING RESIDUAL CURRENT DEVICES; • CABLING, CABLE CONTAINMENT AND CABLING ALTERATIONS AS REQUIRED TO FACILITATE THE WORKS; • GENERAL PURPOSE POWER AND ACCESSORIES; • COORDINATION AND PROVISION OF POWER SUPPLIES TO OTHER SERVICES; • LIGHT FITTINGS AND CONTROLS; • BCA SECTION J - METERING AND CONTROL FOR LIGHTING SYSTEMS; • TESTING, COMMISSIONING AND CERTIFICATION OF EQUIPMENT AND SYSTEMS; • AS-CONSTRUCTED DRAWINGS, DOCUMENTATION AND OPERATION AND MAINTENANCE MANUALS; • WARRANTY, MAINTENANCE AND DEFECTS LIABILITY PERIOD. ALL COMPONENTS AND SYSTEMS SHALL BE COMPLETED IN EVERY RESPECT, FULLY TESTED AND COMMISSIONED AND PLACED INTO SERVICE UNLESS OTHERWISE SPECIFICALLY NOTED.											C																																																																		
D	STANDARDS ALL WORK TO BE CARRIED OUT IN ACCORDANCE WITH THE RELEVANT NATIONAL CONSTRUCTION CODE, AUSTRALIAN STANDARDS AND ALL OTHER RELEVANT INDUSTRY STANDARDS AND BEST PRACTICE GUIDANCE. THIS SHALL INCLUDE BUT NOT NECESSARILY BE LIMITED TO THE FOLLOWING: • THE OCCUPATIONAL SAFETY AND HEALTH ACT 1984; • THE OCCUPATIONAL SAFETY AND HEALTH REGULATIONS 1996; • NATIONAL CONSTRUCTION CODE 2022; • AS/NZS 1158.3.1 LIGHTING FOR ROADS AND PUBLIC SPACES – PEDESTRIAN AREA (CATEGORY P) LIGHTING; • AS/NZS 3000 ELECTRICAL INSTALLATION (KNOWN AS THE AUSTRALIAN/NEW ZEALAND WIRING RULES), TOGETHER WITH ALL ASSOCIATED PARTS AND REFERENCED STANDARDS; • AS/NZS 3008 ELECTRICAL INSTALLATIONS – SELECTION OF CABLES; • AS/NZS 3017 ELECTRICAL INSTALLATIONS – VERIFICATION BY INSPECTION AND TESTING; • APPLICABLE PORT OF TOWNSVILLE STANDARDS.											D																																																																		
E	LUMINAIRES REFER TO 25145-000-EL-07-0001 ELECTRICAL AND COMMUNICATIONS SERVICES LAYOUT FOR LUMINAIRE TYPES TO BE SUPPLIED AND INSTALLED. ALLOW FOR DESIGN VERIFICATION COSTS WHEN SUGGESTING ALTERNATIVES AND DEPARTURES FROM THE SPECIFIED PERFORMANCE OR LUMINAIRES. ACCEPT DESIGN RESPONSIBILITY FOR PROPOSED ALTERNATIVE PERFORMANCE REQUIREMENTS OR EQUIPMENT SUBSTITUTIONS AND PROVIDE LIGHT-LEVEL CALCULATIONS AND TECHNICAL DATA TO THE SATISFACTION OF POTL AND ANY CLIENT'S REPRESENTATIVE. CONFIRM LEAD-TIMES OF ALL LIGHTING DURING THE TENDER PERIOD AND ENSURE THAT LUMINAIRES CAN BE SUPPLIED AND INSTALLED TO FIT THE PROJECT PROGRAM. CONFIRM ALL LUMINAIRE AND SYSTEM COLOURS AND DECORATIVE FINISHES WITH THE PROJECT ARCHITECT PRIOR TO PROCUREMENT. PROVIDE LUMINAIRE AND SYSTEM DATA SHEETS TO POTL REPRESENTATIVE FOR APPROVAL PRIOR TO PROCUREMENT. CHECK CUT-OUT DIMENSIONS WITH MANUFACTURER FOR ALL RECESSED FITTINGS. CLEARLY AND CLEANLY FORM ALL LUMINAIRE CUT-OUTS TO MATCH THE SUPPLIERS' RECOMMENDATIONS WITH NO VISIBLE DEFECTS. MAKE GOOD ALL INCORRECTLY OR INAPPROPRIATELY FORMED RECESSES. FOR ALL LINEAR SYSTEMS, THE CONTRACTOR SHALL MEASURE THE LENGTH FROM THE DRAWINGS, CONFIRM THE LENGTH REQUIRED ON-SITE AND CONFIRM WITH THE CLIENT'S REPRESENTATIVE PRIOR TO PROCUREMENT. THE CONTRACTOR SHALL COORDINATE WITH THE LIGHTING SUPPLIER TO DETERMINE THE OPTIMUM NUMBER OF INTERNAL LED LIGHTING MODULES TO ACHIEVE THE DESIRED LENGTH AND AESTHETIC. ANY REQUIREMENTS FOR BLANKING PLATES SHALL BE NOTED TO POTL REPRESENTATIVE FOR APPROVAL PRIOR TO PROCUREMENT. THE CONTRACTOR SHALL ALLOW TO SECURELY STORE LUMINAIRES OFF-SITE UNTIL REQUIRED. PROVIDE ALL NECESSARY ACCESSORIES, FIXINGS, END-CAPS AND TRIM PIECES AS NECESSARY. ALL LIGHT FITTING CONTROL GEAR MUST HAVE A MINIMUM POWER FACTOR OF 0.9.											E																																																																		
F	CCTV AND FIBRE 1. 24C FIBRE TO BE TERMINATED INTO A FOBOT IN A NEW PANEL ADJACENT TO LIGHT AND POWER DB. 2. 4C FIBRE TO BE RUN VIA CONDUITS AND TRENCHES TO CCTV LOCATIONS. 3. CONTRACTOR TO INSTALL FOBOT AND POE FOR EACH CCTV CAMERA, WITH AT LEAST ONE SPARE POE OUTLET FOR EACH CAMERA LOCATION. 4. CCTV COMPONENTS TO BE INSTALLED INTERNAL TO SHADE STRUCTURE AT THE VIEWING PANEL AND AN IP66 RATED STAINLESS STEEL B&R PANEL TO BE INSTALLED FOR THE CCTV IN THE CURTAIN BROTHERS COMPOUND. 5. DIN MOUNTED ELECTRICAL ISOLATOR TO BE INSTALLED FOR EACH CCTV LOCATION.											F																																																																		
G	OBLIGATIONS OF THE INSTALLER • TO ALLOW FOR DESIGN VERIFICATION COSTS WHEN PROPOSING ALTERNATIVES AND DEPARTURES FROM THE SPECIFIED PERFORMANCE OR EQUIPMENT; • TO ACCEPT ALL DESIGN RESPONSIBILITY FOR PROPOSED ALTERNATIVE PERFORMANCE REQUIREMENTS OR EQUIPMENT SUBSTITUTIONS AND PROVIDE CALCULATIONS AND TECHNICAL DATA TO THE SATISFACTION OF THE CLIENT AND ANY CLIENT'S REPRESENTATIVE; • TO CERTIFY COMPLIANCE WITH REQUIRED CONTRACT DOCUMENTS INCLUDING ANY VARIATION INSTRUCTIONS AND CONTRACTUAL DIRECTIONS AT PROJECT COMPLETION; • TO CERTIFY COMPLIANCE WITH ALL APPLICABLE AUTHORITY REQUIREMENTS; • TO PAY ALL REQUIRED UTILITY, AUTHORITY AND LICENSING FEES APPLICABLE TO THE WORKS; • TO OBTAIN ALL AUTHORITY PERMITS REQUIRED TO ALLOW THE WORKS TO PROCEED; • TO PROVIDE MANUFACTURERS' DRAWINGS AND DATA OF EQUIPMENT SELECTIONS FOR APPROVAL BY THE CLIENT'S REPRESENTATIVE PRIOR TO PROCUREMENT; • TO RECORD ALL CHANGES TO EXISTING EQUIPMENT AND SERVICES LAYOUTS, WIRING AND OTHER ITEMS WHICH HAVE BEEN ALTERED OR AMENDED BY THE WORKS THROUGHOUT THE DURATION OF THE WORKS; • TO PROVIDE AS-CONSTRUCTED DRAWINGS AND OPERATION AND MAINTENANCE DOCUMENTATION MANUALS FOR ALL EQUIPMENT AND INSTALLATIONS INSTALLED OR AMENDED BY THE WORKS; • TO SEAL AND VERMIN PROOF ALL OPENINGS. • ALL EXISTING SERVICES WITHIN THE VICINITY OF THE PROPOSED WORKS THAT ARE TO REMAIN SHALL BE LOCATED, PROTECTED AND/OR DIVERTED PRIOR TO ANY WORKS BEING UNDERTAKEN.											G																																																																		
H	PLANS AND DOCUMENTS referred to in the PDA DEVELOPMENT APPROVAL Approval no: DEV-2026-TRY-4869 Date: 29 May 2026  ISSUED FOR TENDER NOT FOR CONSTRUCTION REFERENCE DRG'S <table><tr><td></td><td></td></tr><tr><td></td><td></td></tr><tr><td></td><td></td></tr><tr><td></td><td></td></tr><tr><td>DRAWING</td><td>DRAWING TITLE</td></tr></table> REVISIONS <table><tr><td></td><td></td><td></td><td></td><td></td><td></td></tr><tr><td></td><td></td><td></td><td></td><td></td><td></td></tr><tr><td>B</td><td>ISSUED FOR TENDER</td><td>JL</td><td>MD</td><td>DH</td><td>17.04.26</td></tr><tr><td>REV</td><td>REVISION DESCRIPTION</td><td>DRAWN</td><td>CHECKED</td><td>APPROVED</td><td>DATE</td></tr></table> APPROVALS <table><tr><td>DRAWN</td><td></td><td></td><td></td></tr><tr><td>CHECKED</td><td></td><td></td><td></td></tr><tr><td>DESIGNED</td><td></td><td></td><td></td></tr><tr><td>ENG. APPROVED</td><td></td><td></td><td></td></tr><tr><td>PROJ. APPROVED</td><td></td><td></td><td></td></tr><tr><td>DUTY</td><td></td><td>NAME</td><td>DATE</td></tr></table>  DRAWINGS WHERE APPLICABLE ARE THIRD ANGLE PROJECTION  AGILITUS PORT OF TOWNSVILLE LIMITED WATERFRONT CORRIDOR UPGRADE - SECTION 3 ELECTRICAL AND COMMUNICATIONS INSTALLATION NOTES <table><tr><td>SHEET</td><td>SCALE</td><td>DRAWING NUMBER</td><td>REV</td></tr><tr><td>A1</td><td>NTS</td><td>25145-000-EL-07-0003</td><td>B</td></tr></table>																			DRAWING	DRAWING TITLE													B	ISSUED FOR TENDER	JL	MD	DH	17.04.26	REV	REVISION DESCRIPTION	DRAWN	CHECKED	APPROVED	DATE	DRAWN				CHECKED				DESIGNED				ENG. APPROVED				PROJ. APPROVED				DUTY		NAME	DATE	SHEET	SCALE	DRAWING NUMBER	REV	A1	NTS	25145-000-EL-07-0003	B	H
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