

GENERAL NOTES

- The drawings are schematic only and are not to be scaled for dimensions nor used as a basis for building an element or sublot.
- Comply with the latest edition of all referenced standards.
- The contractor shall give a minimum of 48hrs notice for inspection prior to constructing elements.
- These drawings shall be read in conjunction with all other consultants drawings and specifications.
- All dimensions relevant to setting out and off-site work shall be verified by the contractor before construction and fabrication.
- The contractor shall maintain the structure in a stable condition at all times and ensure no part is overstressed during construction activities.
- The contractor shall engage an RPEQ Engineer to provide certification of all propping, shoring, temporary works, falseworks and other temporary elements where required by the Workplace Health and Safety Act, SAA Standards and other applicable legislation at their own cost.
- Where there is a discrepancy between the structural drawings and other consultants drawings, the contractor shall, prior to commencement of construction, contact the principals representative for clarification.
- Position of services is given for guidance only. Locations and/or depth may not be accurately represented and other services may exist on site. It is the responsibility of the contractor to verify the position of all services prior to commencing work.
- The contractor shall coordinate all services to ensure there are no clashes with structural elements, the contractor shall locate existing services and contact principals representative for advice if clashes occur.
- Protection from termites shall be in accordance with AS3680. If protection is not selected, inspected or specified by the engineer, refer to architect for specification.
- Structural certification of balustrades for compliance with the Building Code of Australia and Local Authorities Regulations shall be provided by the contractor unless otherwise detailed on our drawings.
- Where trade names have been used for particular product requirements, an equivalent product may be submitted for engineering approval prior to use.
- All proprietary products shall be fixed in accordance with the manufacturer's requirements to withstand the applicable design loads unless specifically varied by the documents.

DESIGN LOADS

1. The structural design criteria are as follows. All parameters are given at the ultimate limit state and for the worst-case UNO.

General:

- Building classification: 10b
- Importance level 2
- Design life: 50 years
- Annual probability of exceedance 1:500 (wind)

Imposed loads (to AS1170.9 & 1):

- Floor & Decking: 4.0kPa & 1.8kN concentrated load
- Roof: 0.25 kPa

Wind loads (to AS1170.2):

- Region: C
- Terrain category: 2
- Climate multiplier $M_c = 1.05$
- Directional multiplier $M_d = 0.9$
- Terrain / height multiplier M_z cat = 1.0
- Topographic multiplier $M_t = 1.0$
- Shielding multiplier $M_s = 1.0$
- Design gust wind speed $V_{des} = 62.4$ m/s
- $C_{pn} = 0.533$

NUISANCE

- The contractor shall develop, implement and administer a plan that will ensure the management of noise and vibration resulting from construction works.
- The contractor will need to ensure all adjoining property requirements relating to noise and vibration are met.
- If it is established that there are no site specific requirements, then the contractor shall refer to minimum requirements for abatement of noise and vibration nominated by relevant statutory requirements.
- The contractor will need to prepare and advise on monitoring and management of noise and vibration based on professional advice from a suitably qualified person or persons.

INSPECTION AND CERTIFICATION

- RPEQ Certification of the works is contingent on all elements being inspected by Hansen Engineering Group. The following minimum hold points apply:
 - Install subgrade allowable bearing capacity.
 - Concrete 28 day compressive strength data, slump test data, and finished surface.
 - Prepared reinforcement prior to concrete placement.
 - Approval of shop drawings prior to fabrication.
 - Surface preparation of steel prior to application of protective coatings.
 - Final practical completion of all elements.
- All inspections and review of Contractor's documentation or records require a minimum 48 hours notice. Lack of notice may not be able to be accommodated or may attract additional costs.
- Hansen Engineering Group is not liable for any delays, re-work, or additional costs due to lack of compliance with the drawings or specifications.
- All works must be performed by a suitably qualified and experienced Builder or Civil Contractor as appropriate, with the appropriate QBCC license and quality management processes for the scale of the project.
- All testing must be performed by an independent NATA accredited authority.

ELECTRONICALLY TRANSFERRED DRAWINGS

- Hansen Engineering Group accepts no responsibility for a drawing that has been amended in any way by another party, or for the usability, completeness or scale of drawings transferred electronically.
- Hansen Engineering Group retains the full ownership of all components and objects within Revit models.
- Any part of Hansen Engineering Groups drawings copied from electronically transferred drawings become the responsibility of the recipient.
- PDF documents will always take precedence over electronically transferred editable files. Recipients should when necessary, request a PDF copy version for verification.
- Structural drawings in both hard copy and electronically transferred, shall not be scaled or used for setup.

STEELWORK

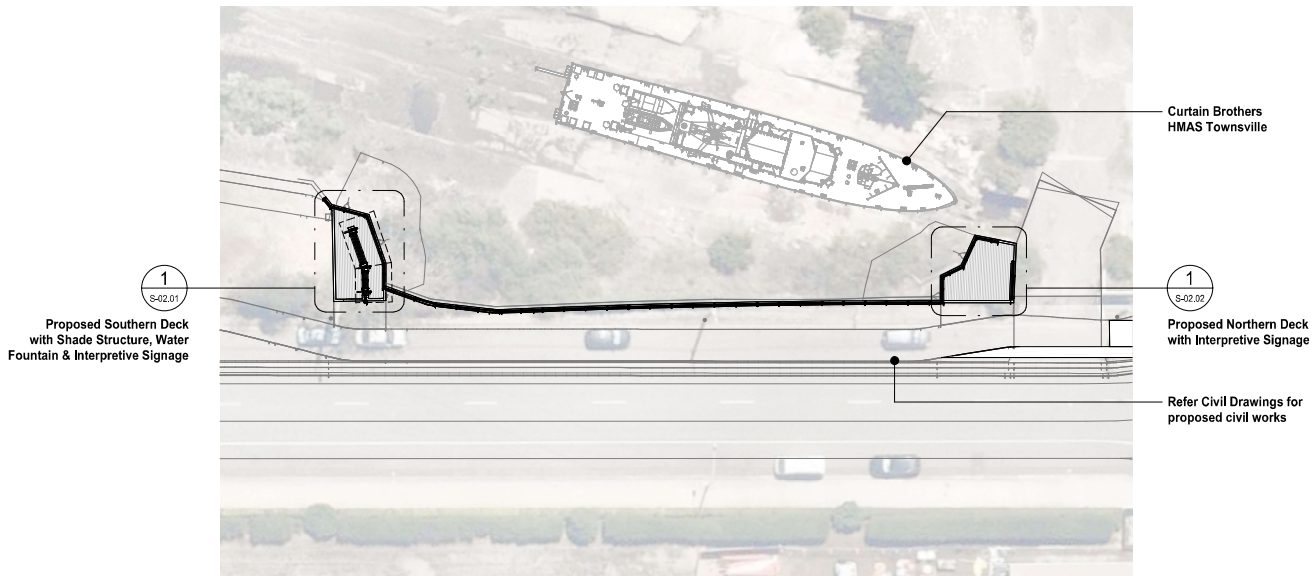
- In accordance with the requirements of AS/NZS5131 the construction categories for this project are defined below:

ELEMENT	IMPORTANCE LEVEL	SERVICE CATEGORY	FABRICATION CATEGORY	CONSTRUCTION CATEGORY
ALL STRUCTURAL STEELWORK U.N.O	IL2	SC1	FC1	CC2
PROVIDE A LIST OF DRAWINGS, COMPONENTS OR ASSEMBLIES WHERE A DIFFERENT CC IS TO BE USED	IL2	SC2	FC1	CC3

- All steelwork shall be executed in accordance with the current edition of the relevant codes of practice:
 - AS 1111 - ISO Metric hexagon bolts and screws.
 - AS 1112 - ISO Metric hexagon nuts, including thin nuts, slotted nuts and castle nuts.
 - AS 1214 - Hot-dip galvanized coatings on threaded fasteners.
 - AS/NZS 1252.1 - High-strength steel fastener assemblies for structural engineering - bolts, nuts and washers.
 - AS/NZS 1163 - Cold-formed structural steel hollow sections.
 - AS/NZS 1554 - Structural steel welding.
 - AS 1559 - Hot-dip galvanized steel bolts and associated nuts and washers for tower construction.
 - AS/NZS 1594 - Hot-rolled steel flat products.
 - AS/NZS 3678 - Structural steel - hot-rolled plates, borplates and slabs.
 - AS/NZS 3679.1 - Structural steel hot-rolled bars and sections.
 - AS/NZS 3679.2 - Structural steel welded I sections.
 - AS 4100 - Steel structures.
 - AS/NZS 5131 - Structural steelwork - fabrication and erection.
- Unless noted otherwise, all steel shall be in accordance with AS 3678, AS 3679, AS 1163, 1164, 1165, 1166, 1167, 1168, 1169, 1170, 1171, 1172, 1173, 1174, 1175, 1176, 1177, 1178, 1179, 1180, 1181, 1182, 1183, 1184, 1185, 1186, 1187, 1188, 1189, 1190, 1191, 1192, 1193, 1194, 1195, 1196, 1197, 1198, 1199, 1200, 1201, 1202, 1203, 1204, 1205, 1206, 1207, 1208, 1209, 1210, 1211, 1212, 1213, 1214, 1215, 1216, 1217, 1218, 1219, 1220, 1221, 1222, 1223, 1224, 1225, 1226, 1227, 1228, 1229, 1230, 1231, 1232, 1233, 1234, 1235, 1236, 1237, 1238, 1239, 1240, 1241, 1242, 1243, 1244, 1245, 1246, 1247, 1248, 1249, 1250, 1251, 1252, 1253, 1254, 1255, 1256, 1257, 1258, 1259, 1260, 1261, 1262, 1263, 1264, 1265, 1266, 1267, 1268, 1269, 1270, 1271, 1272, 1273, 1274, 1275, 1276, 1277, 1278, 1279, 1280, 1281, 1282, 1283, 1284, 1285, 1286, 1287, 1288, 1289, 1290, 1291, 1292, 1293, 1294, 1295, 1296, 1297, 1298, 1299, 1300, 1301, 1302, 1303, 1304, 1305, 1306, 1307, 1308, 1309, 1310, 1311, 1312, 1313, 1314, 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Artists Impression



SITE PLAN

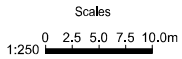
1 : 250

PLANS AND DOCUMENTS
referred to in the PDA
DEVELOPMENT APPROVAL
Approval no: DEV-2025-TRY-4665
Date: 29 May 2026
Queensland
Government

ISSUED FOR TENDER

NOT FOR CONSTRUCTION

Rev	Description	By	Appd	Date
1	Issued For Tender	SR	TH	13.04.2026
Amendments				



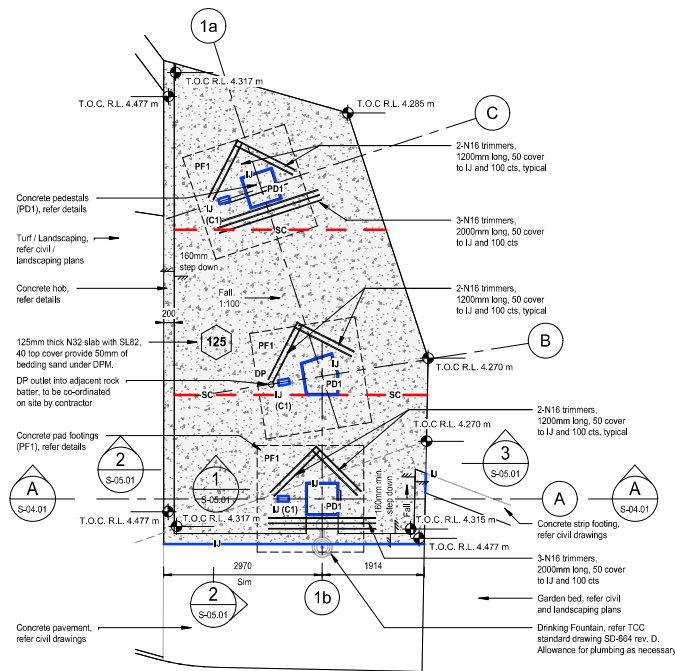
Client: PORT OF TOWNSVILLE LIMITED
Project: WATERFRONT TRANSIT CORRIDOR UPGRADE
Drawing Title: SITE PLAN

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ENGINEERING GROUP
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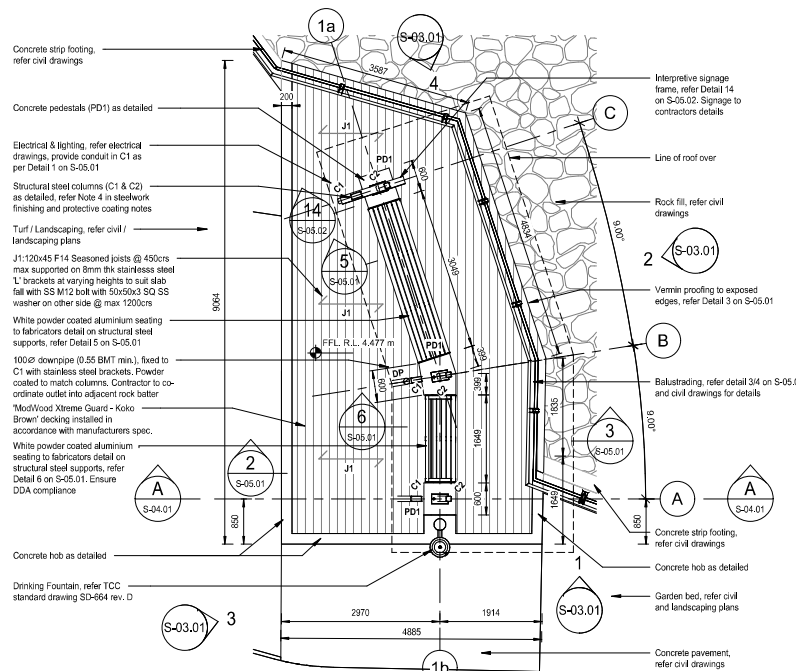
Design:	AT
Drawn:	SR
Date:	13.04.2026
Checked:	DH
Approved:	TH
RPEQ No.:	18895

Job Number:	25018
Drawing No.	S-01.01
Revision	1

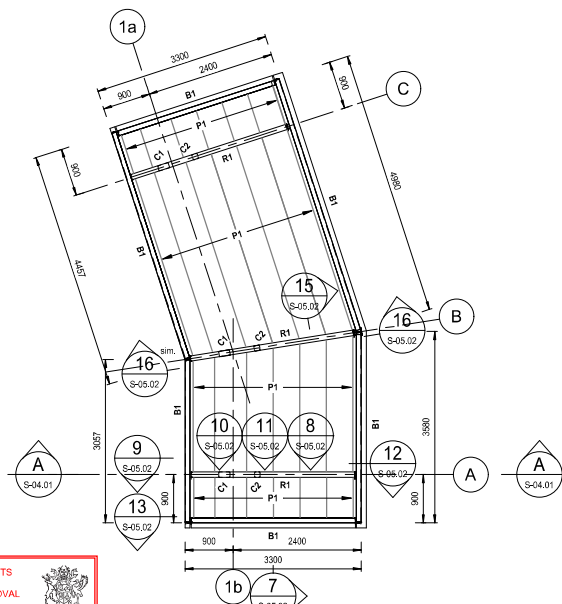
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Do not scale drawing.
Original drawing is A1 size



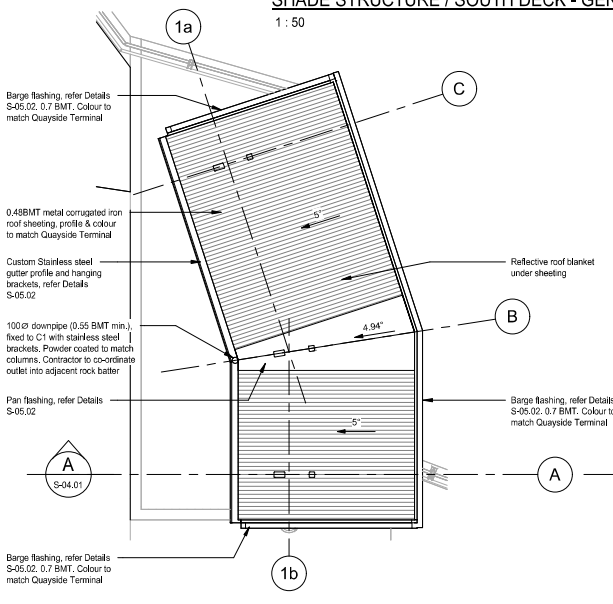
SHADE STRUCTURE / SOUTH DECK - SLAB PLAN
1 : 50



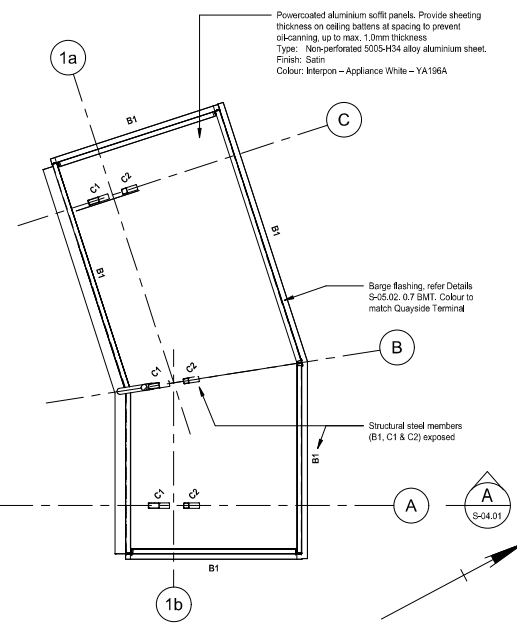
SHADE STRUCTURE / SOUTH DECK - GENERAL ARRANGEMENT PLAN
1 : 50



SHADE STRUCTURE - ROOF FRAMING PLAN
1 : 50



SHADE STRUCTURE - ROOF PLAN
1 : 50



SHADE STRUCTURE - CEILING PLAN
1 : 50

FRAMING MEMBER SCHEDULE		
Mark	Size	Comments
B1	250PFC	
R1	200x100x5.0RHS	Grade 350

COLUMN SCHEDULE		
Mark	Type	Comments
C1	200x100x5.0RHS	Grade 350
C2	100x100x5.0RHS	Grade 350

PURLIN SCHEDULE		
Mark	Size	Comments
P1	200/15C	8 600crs

JOIST SCHEDULE		
Mark	Size	Comments
J1	120x45 F14 HWD	

PEDESTAL & PAD FOOTING SCHEDULE				
Mark	Type	Size (LxWxD)	T.O.C R.L.	Comments
PD1	Concrete Pedestal	800x800x700mm*	4.927m	Refer setout for central pedestal on Gridline B
PF1	Concrete Pad Footing	2000x2000x500mm	4.157m	

PLANS AND DOCUMENTS referred to in the PDA DEVELOPMENT APPROVAL
Approval no: DEV-2025-TRY-4669
Date: 29 May 2025

Issued For Tender	Description	SR	TH	Date
Rv	Amendments	By	Appd	



Client	Port of Townsville Limited
Project	Waterfront Transit Corridor Upgrade
Drawing Title	Southern Deck & Shade Structure - General Arrangement, Slab, Framing, Roof & RCP Plans



Design	AT
Drawn	SR
Date	13.04.2026
Checked	DM
Approved	TH
RPEC No.	18895

ISSUED FOR TENDER	
NOT FOR CONSTRUCTION	
Job Number	25018
Drawing No.	S-02.01
Revision	1



'Hmax'	'Lmin'	Footing
3000mm	1400mm	N16 bars EW 200c/s top and bottom with 90° hooks at ends 65 cover
2500mm	1000mm	N16 bars EW 200c/s top and bottom with 90° hooks at ends 65 cover



'Hmax'	'Lap'	'Reo'
2000mm	1600mm	N16-600 Vert.
1600mm	1400mm	N12-600 Vert.



Queensland
Government

Client



PORT OF
TOWNSVILLE

Scales

0 0.5 1 1.5 2m

1:50

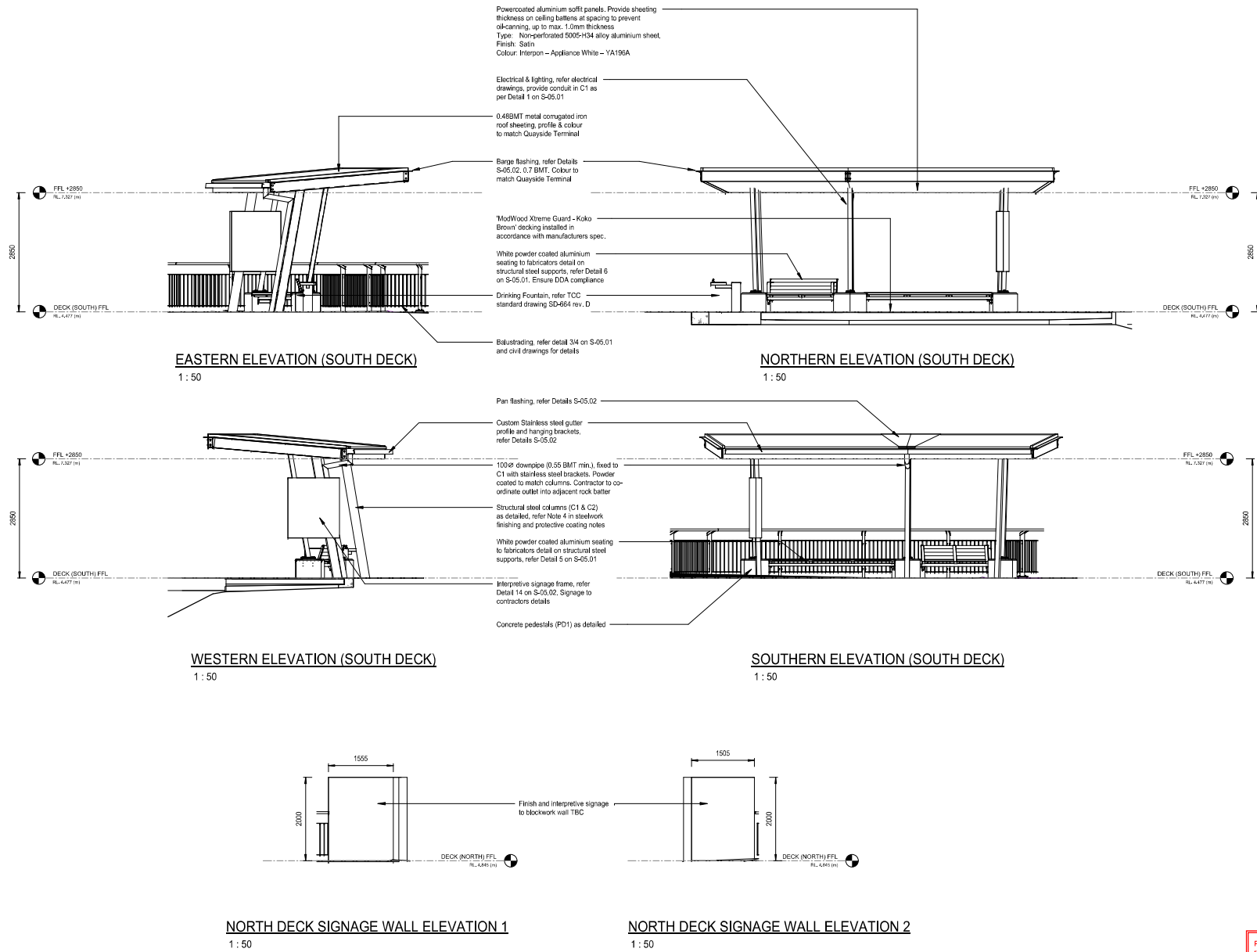
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 Original drawing is A1 size

Job Number.	25018	
Drawing No.	S-02.02	Revised 1



PLANS AND DOCUMENTS
referred to in the PDA
DEVELOPMENT APPROVAL

Approval no: DEV-2026-TRY-4669

Date: 29 May 2026



ISSUED FOR TENDER

NOT FOR CONSTRUCTION

Rev	Description	By	Appd	Date
1	Issued For Tender	SR	TH	13.04.2026
Amendments				



Scales

0 2.5 5.0 7.5 10.0m

1:250

Client: PORT OF TOWNSVILLE LIMITED

Project: WATERFRONT TRANSIT CORRIDOR UPGRADE

Drawing Title: ELEVATIONS

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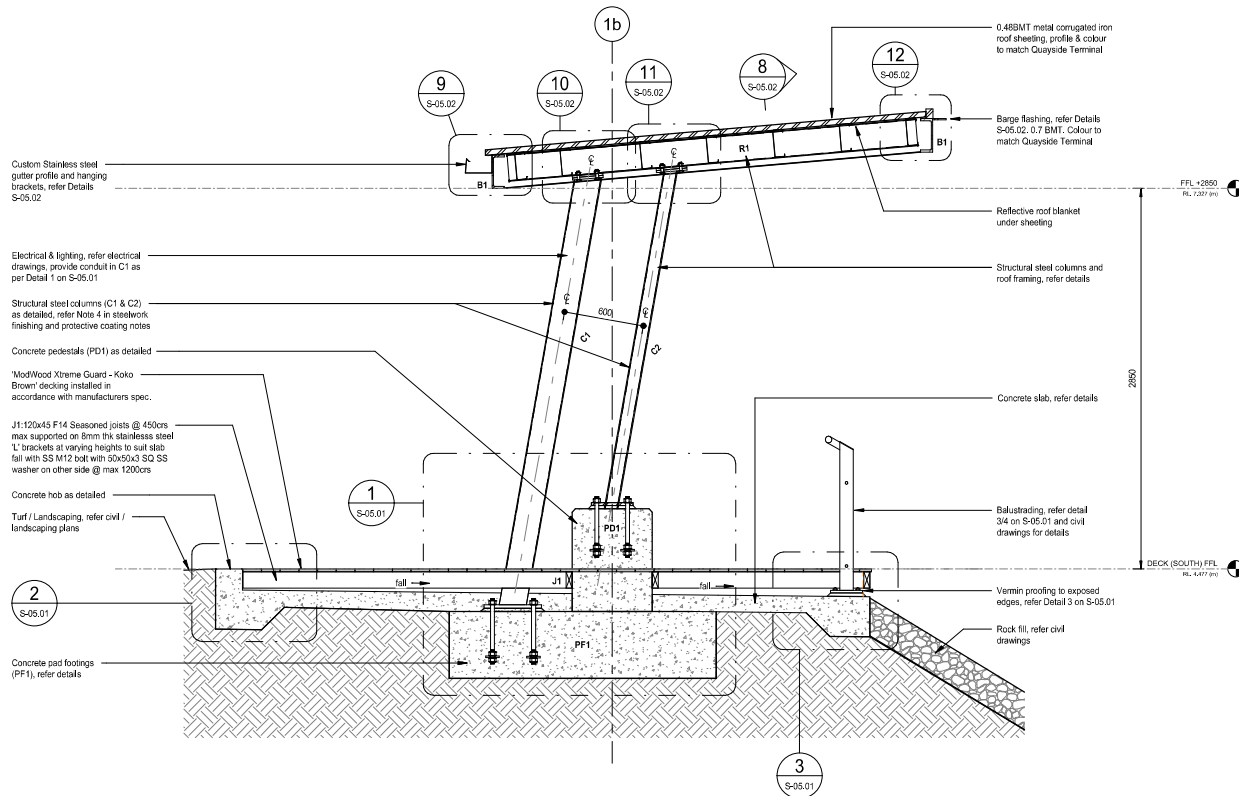
Design:	AT
Drawn:	SR
Date:	13.04.2026
Checked:	DH
Approved:	TH
RPEQ No.:	18895

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Do not scale drawing.
Original drawing is A1 size

Job Number.
25018

Drawing No.
S-03.01

Revision
1



FRAMING MEMBER SCHEDULE		
Mark	Size	Comments
B1	250PFC	
R1	200x100x5.0RHS	Grade 350

COLUMN SCHEDULE		
Mark	Type	Comments
C1	200x100x5.0RHS	Grade 350
C2	100x100x6.0SHS	Grade 350

PURLIN SCHEDULE		
Mark	Size	Comments
P1	200/15C	@ 600c/s

JOIST SCHEDULE		
Mark	Size	Comments
J1	120x45 F14 HWD	

PEDESTAL & PAD FOOTING SCHEDULE				
Mark	Type	Size (LxWxD)	T.O.C R.L.	Comments
PD1	Concrete Pedestal	800x800x770mm*	4.827m	Refer setout for central pedestal on Gridline B
PF1	Concrete Pad Footing	2000x2000x500mm	4.157m	

PLANS AND DOCUMENTS referred to in the PDA DEVELOPMENT APPROVAL

Approval no: DEV-2026-TRY-4669

Date: 29 May 2026

Queensland Government



ISSUED FOR TENDER

NOT FOR CONSTRUCTION

Job Number:
25018

Drawing No.
S-04.01

Revision
1

1	Issued For Tender	SR	TH	13.04.2026
Rv	Description	By	Appd	Date
Amendments				



Scales

1:50 0 0.5 1 1.5 2m

Client: PORT OF TOWNSVILLE LIMITED

Project: WATERFRONT TRANSIT CORRIDOR UPGRADE

Drawing Title: TYPICAL SECTION

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Design: AT

Drawn: SR

Date: 13.04.2026

Checked: DH

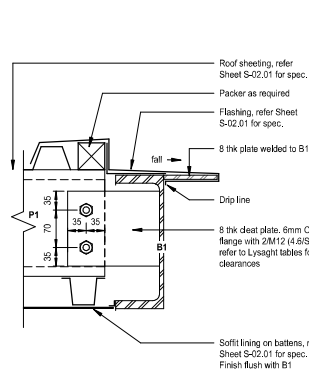
Approved: TH

RPEQ No.: 18895

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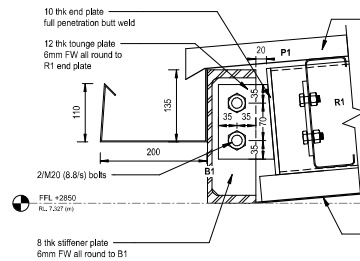
Do not scale drawings.

Original drawing is A1 size



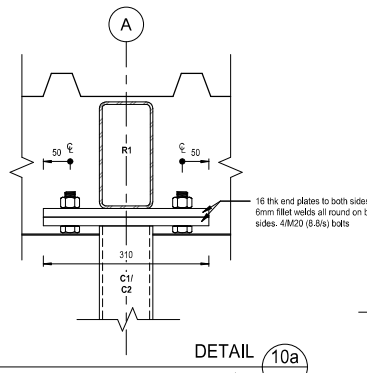
DETAIL 7
1:5 S-02.01

PURLIN (P1) TO RAFTER (B1) DETAIL



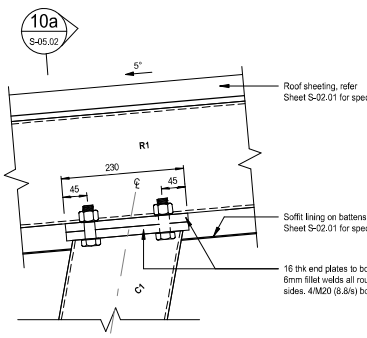
DETAIL 9
1:5

BEAM (B1) TO RAFTER (R1) & GUTTER DETAIL



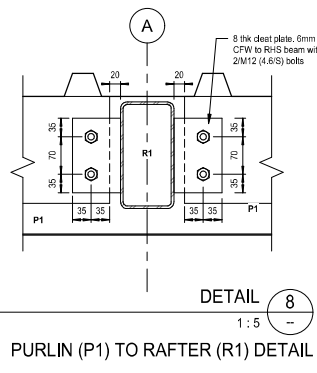
DETAIL 10a
1:5

COLUMN (C1) TO RAFTER (R1) DETAIL (FRONT VIEW)



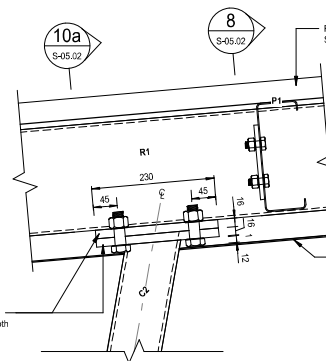
DETAIL 10
1:5

COLUMN (C1) TO RAFTER (R1) DETAIL



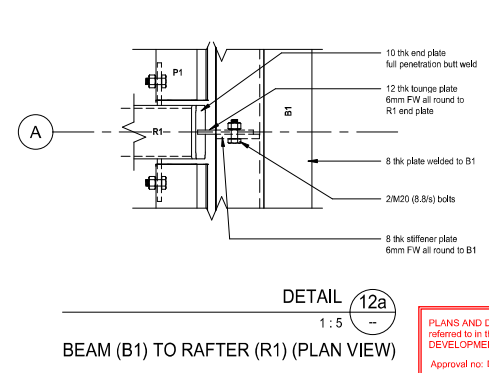
DETAIL 8
1:5

PURLIN (P1) TO RAFTER (R1) DETAIL



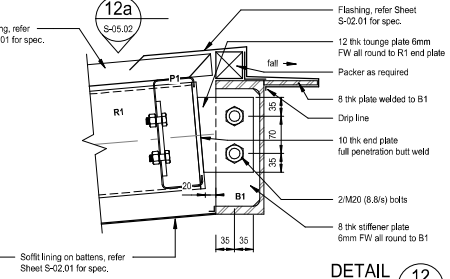
DETAIL 11
1:5

COLUMN (C2) TO RAFTER (R1) DETAIL



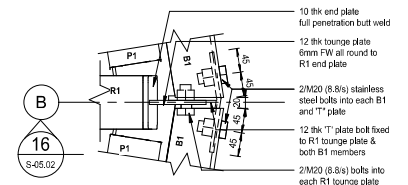
DETAIL 12a
1:5

BEAM (B1) TO RAFTER (R1) (PLAN VIEW)



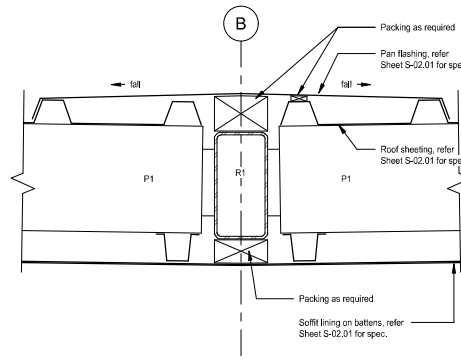
DETAIL 12
1:5

BEAM (B1) TO RAFTER (R1) & BARGE DETAIL



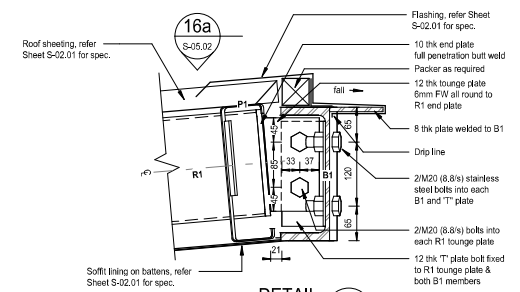
DETAIL 16a
1:5

BEAM (B1) TO RAFTER (R1) DETAIL PLAN



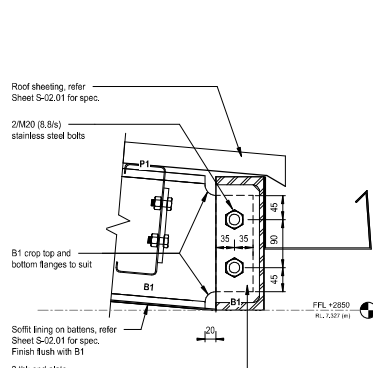
DETAIL 15
1:5 S-02.01

PAN FLASHING DETAIL



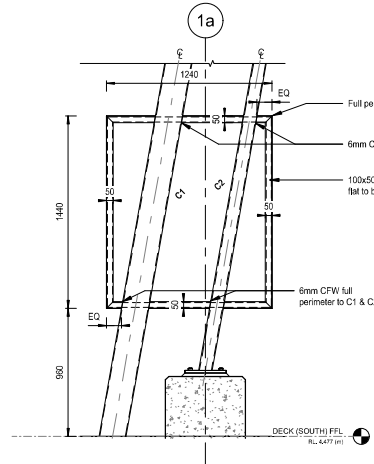
DETAIL 16
1:5

BEAM (B1) TO RAFTER (R1) DETAIL (GRID B)



DETAIL 13
1:5

BEAM (B1) TO (B1) DETAIL



DETAIL 14
1:20 S-02.01

SIGNAGE FRAME DETAIL

Note:
Contractor shall ensure the hold down bolts at base for both columns C1 & C2 are positioned accurately to suit length of C1 & C2 prior to shop fabrication.
Columns C1 & C2 and 100x50x6 RHS frame shall be shop fabricated as one piece prior to application of paint coat system

Note:
All structural steel bolts that are exposed and can be seen to be stainless steel. Remainder of bolts that are fully sealed/hidden from exposure can be hot dipped galvanised.

Rev	Description	By	Appd	Date
1	Issued For Tender	SR	TH	13.04.2026
Amendments				



Scales
0 0.5 1 1.5 2m
1:50

Client: PORT OF TOWNSVILLE LIMITED
Project: WATERFRONT TRANSIT CORRIDOR UPGRADE
Drawing Title: CONSTRUCTION DETAILS - ROOF FRAMING & ROOFING DETAILS

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Design: AT	Drawn: SR	Checked: DH	Approved: TH	RPEQ No.: 19895
ISSUED FOR TENDER NOT FOR CONSTRUCTION Job Number: 25018 Drawing No: S-05.02 Revision: 1				