

ATTACHMENT C – SECTION C – STRUCTURAL PLANS

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A	H370327-0000-225-294-3003 15. STAINLESS STEEL 15.1. ALL STAINLESS STEEL UP TO RL 3.0m AHD SHALL BE GRADE 2205 OR 2307, ABOVE RL 3.0m CD MAY BE 316 OR 2205. 15.2. ALL STAINLESS STEEL BOLTS SHALL HAVE ROLLED THREADS AND BE: a) A4-70 FOR BOLTS LESS THAN OR EQUAL TO M20 b) A4-50 FOR BOLTS GREATER THAN M20 BOLTS AND NUTS SHALL COMPLY WITH RELEVANT STANDARDS, INCLUDING : 3506 15.3. ALL STAINLESS STEEL FASTENERS IN CONTACT WITH NON STAINLESS STEEL MEMBERS SHALL BE ISOLATED USING ISOLATING GROMMETS AND WASHERS. 16. FASTENERS 16.1. ALL BOLTS, NUTS AND WASHERS SHALL A) BE STAINLESS STEEL UNO B) SHALL COMPLY WITH AS 1252 17. ACCESS STAIRWAYS 17.1. STAIRWAY ARRANGEMENT SHOWN IN THE TPS IS INDICATIVE ONLY. DETAIL AND LOCATION IS SUBJECT TO DETAILED DESIGN. 17.2. HANDRAILS SHALL BE PROVIDED IN ACCORDANCE WITH RELEVANT STANDARDS AND TO BE DETERMINED IN THE DETAILED DESIGN 18. PROTECTIVE COATING 18.1. ALL PROTECTIVE COATINGS SHALL BE IN ACCORDANCE WITH THE CONSTRUCTION SPECIFICATION AND SHALL COMPLY WITH RELEVANT STANDARDS. 18.2. DAMAGED ARCHITECTURAL SURFACES SHALL EITHER BE REPLACED OR REPAIRED IN A MANNER THAT ACHIEVES THE INTENDED AESTHETIC. 19. EXISTING SERVICES / BUILDINGS 19.1. ALL INFORMATION REGARDING THE EXISTING UTILITIES, SERVICES, STRUCTURES OR OTHER FEATURES SHOWN ON DRAWINGS ARE FOR GUIDANCE ONLY. THE DETAILS HAVE BEEN OBTAINED AND / OR REPRODUCED FROM RECORD OR CONSTRUCTION DRAWING FROM VARIOUS SOURCES. THE INFORMATION IS MADE AVAILABLE TO THE CONTRACTOR ON UNDERSTANDING THAT NEITHER "WAMBERAL PROTECTION ASSOCIATION" NOR "HATCH PTY LTD" NOR THE AGENTS OF EITHER ACCEPT RESPONSIBILITY FOR ACCURACY OR EXTENT OF THE INFORMATION CONTAINED IN RESPECT OF EXISTING DETAILS. IN RESPECT OF ALL EXISTING DETAIL, THE CONTRACTOR SHALL UNDERTAKE ASSESSMENT OF EXCAT LINES, LEVEL, NATURE, TYPE, SIZE AND LOCATION. 20. CONSTRUCTION / ERECTION: 20.1. THE FOLLOWING SHALL BE THE RESPONSIBILITY OF THE CONTRACTOR: A) STRIPPING, LIFTING, STACKING, TRANSPORTATION, ERECTION AND ALL HANDLING B) PROVISION OF SUITABLE LIFTING BRACKS, SLINGS, SPREAD BEAMS, ETC. C) OBTAINING AND COORDINATION OF BEACH ACCESS WITH COUNCIL. D) ESTABLISHMENT OF THE APPROPRIATE EXCLUSION ZONES NECESSARY TO BEACH USER SAFETY DURING CONSTRUCTION. D) TEMPORARY WORKS AND SUPPORTS NECESSARY TO ELIMINATE THE RISK OF DAMAGE TO EXISTING STRUCTURES. E) REUSE/ REMOVAL OF ALL NON-NATIVE MATERIALS EXISTING WITHIN THE BEACH AND DUNE SUBSTRATE SEAWARD OF THE TPS. F) REUSE/ RECYCLE OR DISPOSAL OF ALL MATERIALS SHALL BE UNDERTAKEN IN ACCORDANCE WITH WASTE MANAGEMENT PLAN. 20.2. DILAPIDATION SURVEY REPORTS SHALL BE COMPLETED PRIOR TO COMMENCEMENT AND AT THE COMPLETION OF WORKS FOR ALL STRUCTURES ADJACENT TO TPS. 20.3. SITE SURVEYS (INCLUDING BEACH AND FOREDUNE) SHALL BE COMPLETED PRIOR TO WORKS, DURING WORKS (INCLUDING STRUCTURE ALIGNMENT AND LAYOUT) AND WITHIN 4 DAYS AFTER COMPLETION OF THE WORKS 20.4. CONSTRUCTION SEQUENCING INFORMATION IS PROVIDED FOR INFORMATION ONLY. THE CONTRACTOR SHALL BE RESPONSIBLE FOR FINAL SEQUENCING. 20.5. THE CONTRACTOR SHALL ENSURE THAT NO DAMAGE TO EXISTING BUILDINGS, STRUCTURES AND FOUNDATIONS, ANY CLASH WITH EXISTING STRUCTURES IDENTIFIED SHALL BE BROUGHT TO THE CLIENT FOR RESOLUTION PRIOR TO PROCEEDING WITH THE WORKS. 20.6. THE CONTRACTOR SHALL BE RESPONSIBLE FOR ENSURING NO DAMAGE OCCURS TO COUNCIL ASSETS. ANY DAMAGE THAT OCCURS SHALL BE RECTIFIED BY THE CONTRACTOR AT NO COST TO THE COUNCIL IN ACCORDANCE WITH THE APPLICABLE SPECIFICATION. 20.7. THE CONTRACTOR SHALL BE RESPONSIBLE FOR MONITORING OF WEATHER/ WAVE HEIGHT CONDITIONS AND ERECTION OF TEMPORARY SHORING WORKS TO STABILIZE THE WORKS AREA. 21. EXPANSION JOINT 21.1. TPS EXPANSION JOINTS ARE NOT CURRENTLY SHOWN. TO BE INCLUDED AT DETAILED DESIGN ISSUE. 22. SAND NOURISHMENT 22.1. ONGOING NOURISHMENT AND MAINTENANCE SHALL BE THE RESPONSIBILITY OF COUNCIL. (MHL 2872,2022) 22.2. MATERIALS USED IN SAND NOURISHMENT SHALL BE IN ACCORDANCE WITH THE DESIGN REQUIREMENT (MHL2872, 2022) 23. ARCHITECTURAL PANEL, SANDSTONE BLOCK, ACCESS STAIRWAYS, AND LANDSCAPING: 23.1. REFER TO SEPARATE DRAWINGS / DOCUMENTS FOR DETAILS. 24. TERMINAL PROTECTION STRUCTURE END CONTROLS (RETURN WALLS) 24.1. END CONTROL MEASURES SHALL BE PROVIDED AT THE TPS TERMINATION POINTS. EXTENT OF THE RETURN WALL TO BE CONFIRMED AND FURTHER DEVELOPED AT DETAILED DESIGN. INDICATIVE TERMINAL END CONTROL RETURN WALLS - TO BE DEFINED AT DETAILED DESIGN STAGE (NOT TO SCALE) 25. WAMBERAL TERMINAL PROTECTION STRUCTURE ALIGNMENT 25.1. THE ALIGNMENT HAS BEEN PRIMARILY DEVELOPED CONSIDERING KEY CRITERIA AND ENGINEERING REQUIREMENTS PROVIDED BY THE COUNCIL. ADDITIONALLY, IMPACT ON THE EXISTING STRUCTURES (INFORMATION IS BASED ON THE AVAILABLE SURVEY) AND TREE PROTECTION ZONES HAS BEEN CONSIDERED IN THE DEVELOPMENT OF THE ALIGNMENT. 25.2. ALIGNMENT MAY NEED TO BE ADJUSTED LOCALLY TO SUIT IN SITU CONDITIONS AND TO AVOID ANY POTENTIAL DAMAGE TO THE EXISTING STRUCTURES/FEATURES AND AROBORIST INPUTS DURING THE DETAILED DESIGN AND/OR PRIOR TO THE CONSTRUCTION. 25.3. ANY ADJUSTMENTS TO THE ALIGNMENT AFTER DETAILED DESIGN APPROVAL, IF REQUIRED, SHALL BE REFERRED TO THE ENGINEER FOR REVIEW AND FINALIZATION. 25.4. TPS TERMINATION: RETURN WALLS AT WALL TERMINATION POINTS SHOWN ARE INDICATIVE ONLY. EXTENT, SHAPE AND ARRANGEMENT TO BE DETERMINED DURING THE DETAILED DESIGN. 26. ARCHITECTURAL PANEL 26.1. ARCHITECTURAL PANEL DETAIL INCLUDING TOP WAVE DEFLECTOR SHAPE DETAIL SHOWN ARE INDICATIVE ONLY. FINAL DETAIL IS SUBJECT TO DETAILED DESIGN. 27. INDICATIVE CONSTRUCTION METHODOLOGY 27.1. THE TPS IS PROPOSED TO BE CONSTRUCTED IN THE FOLLOWING STAGES: A) UNDERTAKE SITE CLEARANCE AS REQUIRED. REMOVE/RELOCATE EXISTING ROCK AND NON -NATIVE MATERIALS. B) ERECT TEMPORARY PROTECTION METHODS TO EXISTING STRUCTURES AND SERVICES AS REQUIRED TO PREVENT DAMAGE DURING PILING WORKS. C) MOBILIZE PILING EQUIPMENT FROM SEAWARD SIDE AND ERECT GUIDE WALL IF REQUIRED. CONDUCT INITIAL SITE SURVEY D) CONSTRUCT PRIMARY PILES TO SOCKET DEPTH (UNREINFORCED PILES) E) CONSTRUCT SECONDARY PILES TO SOCKET DEPTH (REINFORCED PILES) F) EXCAVATE TRENCH AND ERECT TEMPORARY SHORING/ FORM WORK AS REQUIRED. G) CONSTRUCT CAPPING BEAM. CONDUCT SITE SURVEY. H) INSTALL GEOTEXTILE ON LANDWARD SIDE OF CAPPING BEAM. I) UNDERTAKE GROUND IMPROVEMENT WORKS ON LANDWARD SIDE. INSTALL SANDSTONE BLOCKS (WHERE RELEVANT) J) EXCAVATE FRONT OF CAPPING BEAM AND INSTALL SEASIDE ARCHITECTURAL PANEL. K) COMPLETE SAND NOURISHMENT ON SEASIDE TO REQUIRED FINISH LEVEL. L) CONDUCT COMPLETION SITE SURVEY. 27.2. CONSTRUCTION METHODOLOGY PROVIDED FOR INFORMATION ONLY. FINAL METHODOLOGY AND DEVELOPMENT OF A CONSTRUCTION MANAGEMENT PLAN SHALL BE THE RESPONSIBILITY OF THE CONTRACTOR AND APPROVED BY THE ENGINEER. 29. HAZARDOUS MATERIALS 29.1. HAZARDOUS MATERIALS SUCH AS ASBESTOS AND OTHER NON -NATIVE MATERIALS MAY BE PRESENT ALONG THE ENTIRE FORESHORE OF THE WORKS. 29.2. MANAGEMENT OF CONTAMINATED LANDS SHALL BE UNDERTAKEN IN ACCORDANCE WITH THE NSW ENVIRONMENTAL PROTECTION AUTHORITY (EPA) REQUIREMENTS INCLUDING THE CONTAMINATED LAND MANAGEMENT ACT 1997, STATE ENVIRONMENTAL PLANNING POLICY (RESILIENCE) 29.3. THE CONTRACTOR SHALL BE RESPONSIBLE FOR DEVELOPMENT OF A WASTE MANAGEMENT PLAN IN ACCORDANCE WITH THE COUNCIL'S DEVELOPMENT CONTROL PLAN. 29.4. THE CONTRACTOR SHALL BE RESPONSIBLE FOR IMPLEMENTATION OF THE PLAN SUCH THAT ANY DEMOLITION AND CONSTRUCTION WASTE, INCLUDING EXCAVATED MATERIALS IS REUSED, RECYCLED OR DISPOSED OF IN AN ENVIRONMENTALLY FRIENDLY MANNER. <tr><td>B</td><td colspan="8"></td><td>B</td></tr> <tr><td>C</td><td colspan="8"></td><td>C</td></tr> <tr><td>D</td><td colspan="8"></td><td>D</td></tr> <tr><td>E</td><td colspan="8"></td><td>E</td></tr> <tr><td>F</td><td colspan="8"> < </td></tr>								B									B	C									C	D									D	E									E	F	<							
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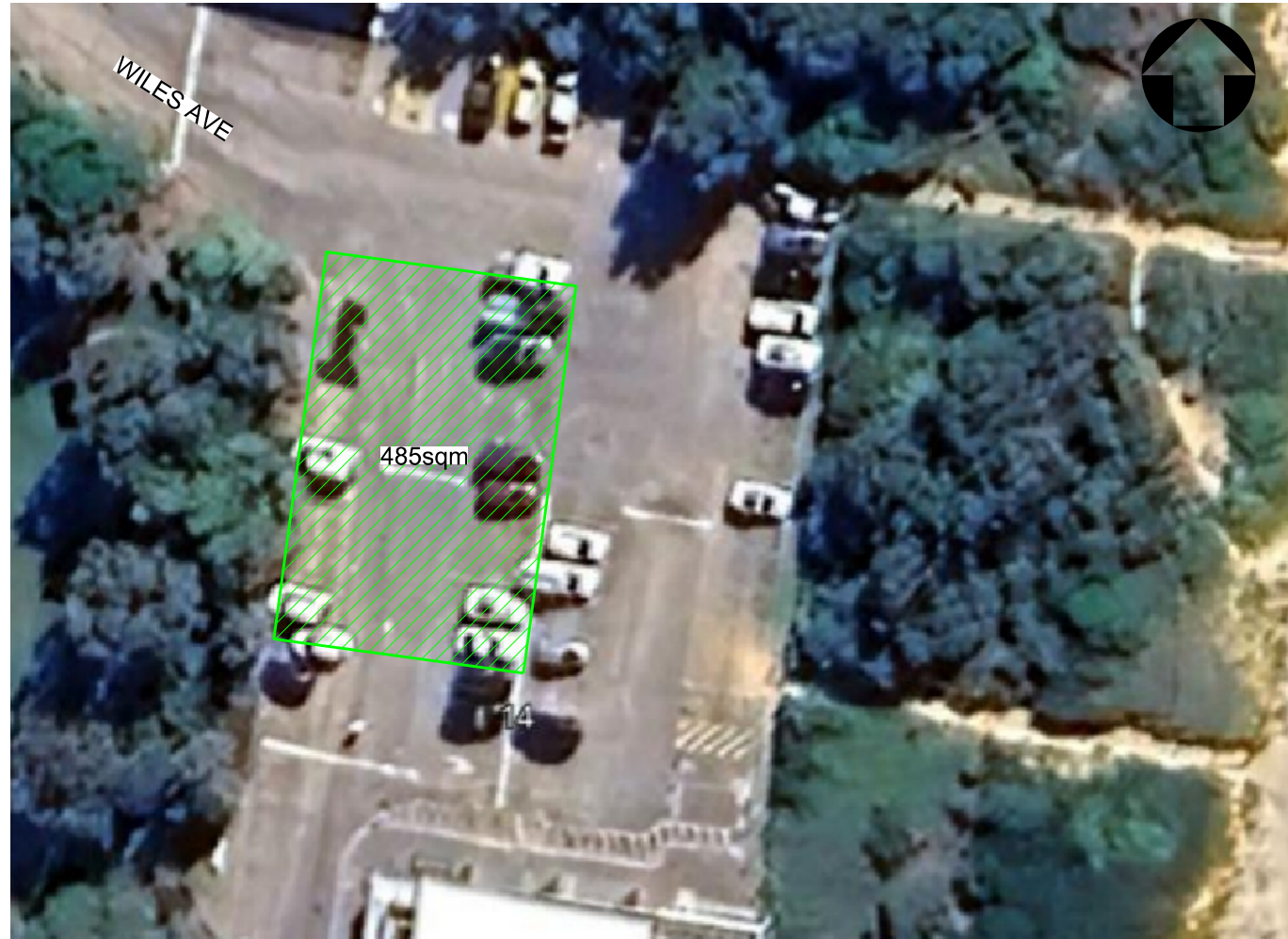
2023/12/08

SUBERNAME\$
STATES
\$TIMES
\$FILES



INDICATIVE STORAGE AREA - PARK NEXT TO SURF CLUB
(APPROXIMATE STORAGE AREA : 500 sqm)

1:500



INDICATIVE STORAGE AREA - SURF CLUB CAR PARK
(APPROXIMATE STORAGE AREA : 485 sqm)

1:500



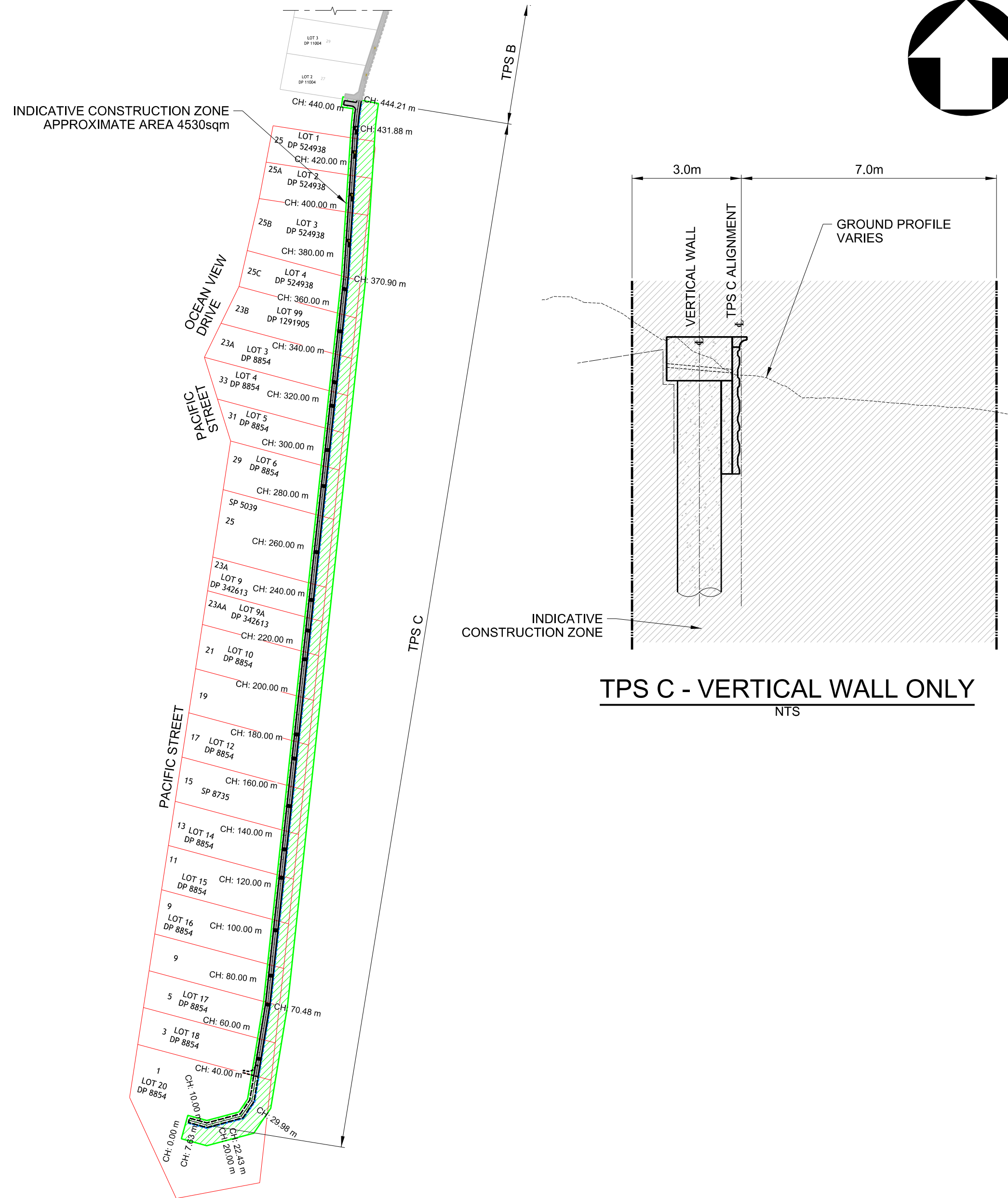
INDICATIVE STORAGE AREA - SURF CLUB CAR PARK
(APPROXIMATE STORAGE AREA : 230 sqm)

1:500



INDICATIVE STORAGE AREA - END OF PACIFIC STREET
(APPROXIMATE STORAGE AREA : 150 sqm)

1:500



TPS C - ALIGNMENT

1:1500

TPS C - VERTICAL WALL ONLY

NTS

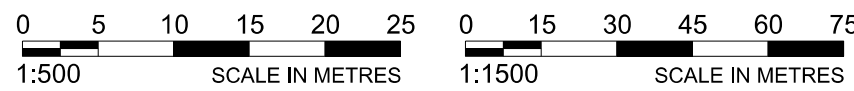
LEGEND

- RESIDENTIAL PROPERTY BOUNDARY
- CH: 50.00m TPS CHAINAGE 50 METRES AND MEASURED AT CENTERLINE OF VERTICAL WALL
- INDICATIVE CONSTRUCTION ZONE

NOTES:

- FOR DRAWING LIST REFER TO H370327-0000-225-294-3001
- FOR GENERAL NOTES REFER TO H370327-000-225-294-3002 & 3003
- REFER TO H370327-0000-225-270-3011, 3012 FOR GENERAL ARRANGEMENT DETAILS OF THE TERMINAL PROTECTION STRUCTURE (TPS)

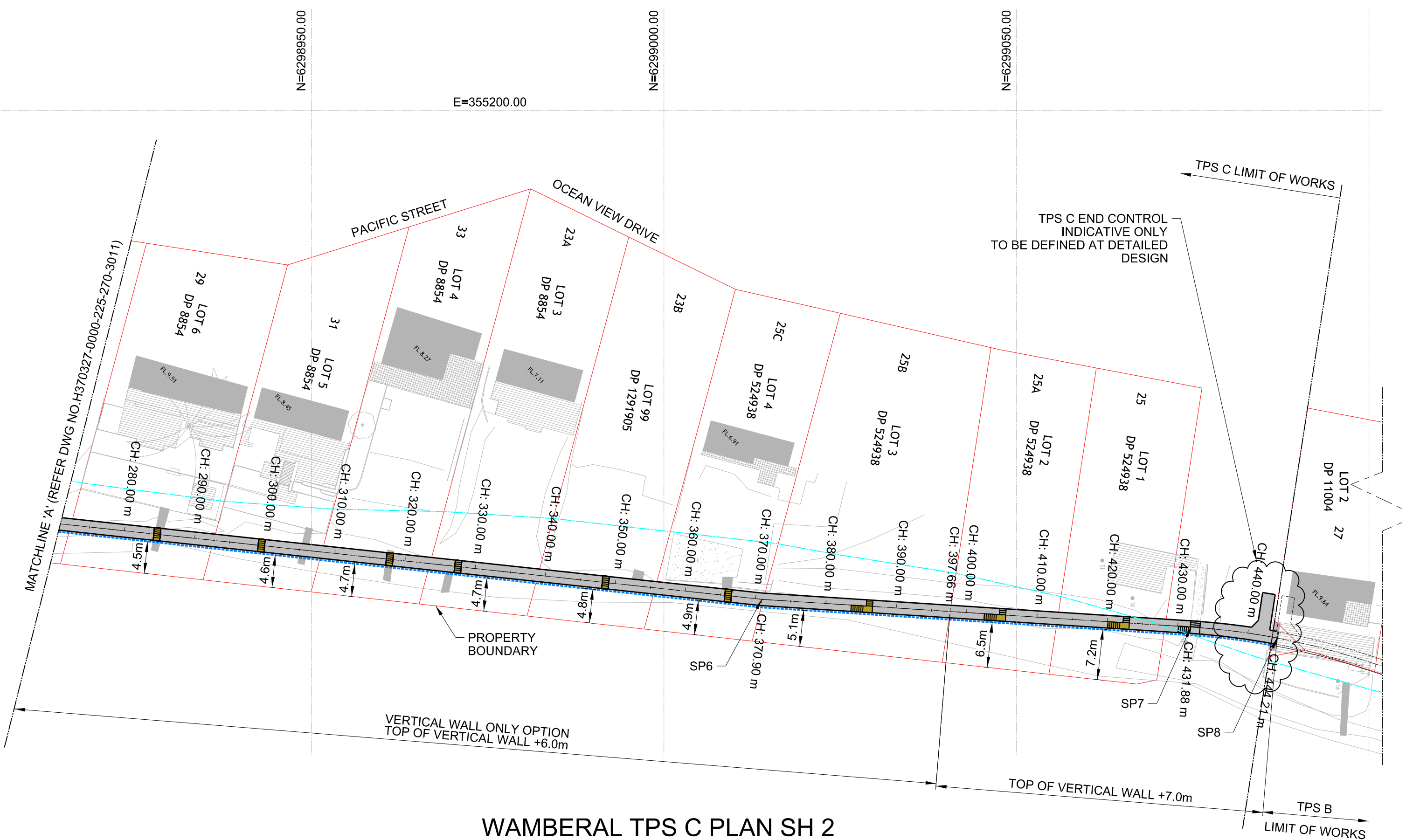
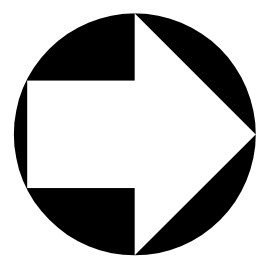
PRELIMINARY
NOT FOR CONSTRUCTION



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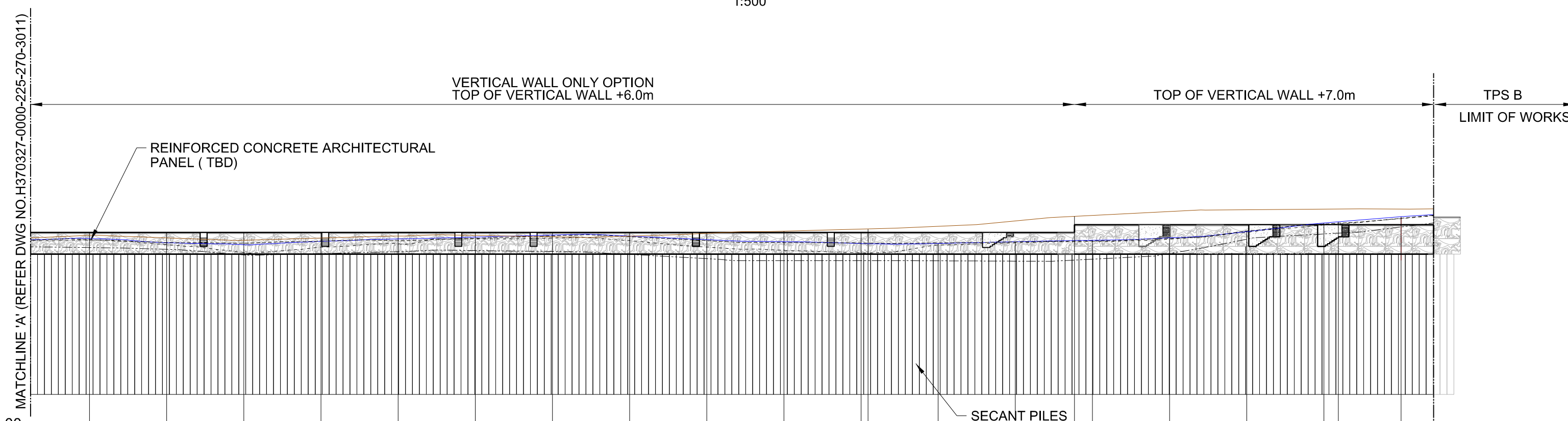
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DWG. No.



WAMBERAL TPS C PLAN SH 2

1:500

[illegible]

TPS C ELEVATION

1:500

TPS C SET OUT POINTS (INDICATIVE AND TAKEN ALONG THE CENTRE LINE OF THE VERTICAL WALL)			
REFERENCE	CHANINAGE (m)	NORTHING (m)	EASTING (m)
SP1	0	6298667.1907	355204.7244
SP2	7.63	6298665.1872	355212.0893
SP3	22.43	6298668.9753	355226.3949
SP4	29.98	6298675.2298	355230.6268
SP5	70.48	6298715.1862	355237.1982
SP6	370.90	6299013.8901	355269.3281
SP7	431.88	6299074.7356	355273.2614
SP8	444.21	6299086.9619	355274.8125

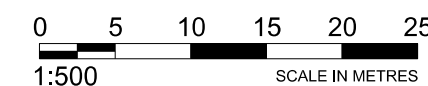
LEGEND

- LEGEND**
-  PROPOSED TPS ALIGNMENT
-  MHL ALIGNMENT
-  RESIDENTIAL PROPERTY BOUNDARY
- CH: 50.00m
-  TPS CHAINAGE 50 METRE AND MEASURED AT CENTERLINE OF VERTICAL WALL
-  EXISTING STRUCTURE FOOT PRINT
-  PROPOSED TPS
-  SANDSTONE BLOCK
-  STAIRWAY

NOTES:

1. FOR DRAWING LIST REFER TO H370327-0000-225-294-3001
2. FOR GENERAL NOTES REFER TO H370327-000-225-294-3002 & H370327-000-225-294-3003

PRELIMINARY
NOT FOR CONSTRUCTION



		LANDSCAPE ARCHITECT		PROJECT MANAGER		THIS DRAWING WAS PREPARED FOR THE EXCLUSIVE USE OF [WAMBERAL PROTECTION ASSOCIATION] CLIENT] AND IS ISSUED PURSUANT TO [THE RELEVANT AGREEMENT] BETWEEN CLIENT AND [HATCH LTD.] ("HATCH"). UNLESS OTHERWISE AGREED IN WRITING WITH CLIENT OR SPECIFIED ON THIS DRAWING, (A) HATCH DOES NOT ACCEPT AND DISCLAIMS ANY AND ALL LIABILITY OR RESPONSIBILITY ARISING FROM ANY USE OF OR RELIANCE ON THIS DRAWING BY ANY THIRD PARTY OR ANY MODIFICATION OR ABUSE OF THIS DRAWING BY CLIENT, AND (B) THIS DRAWING IS CONFIDENTIAL AND ALL INTELLECTUAL PROPERTY RIGHTS EMBODIED OR REFERENCED IN THIS DRAWING REMAIN THE PROPERTY OF HATCH.		  				WAMBERAL PROTECTION ASSOCIATION				\$TIMES \$USERNAMES \$DATES			
														WAMBERAL TERMINAL PROTECTION STRUCTURE					
														TPS C GENERAL ARRANGEMENT PLAN AND ELEVATION SHEET 2					
DRAWING No.		DRAWING TITLE		0		APPROVED FOR USE		FS		RS		2023/12/08		DRAFTSPERSON F. SANDY NR 2023/12/08 DESIGNER F. SANDY NR 2023/12/08 CHECKER P. COUGHLAN 2023/12/08 DESIGN COORD. R. SEGU 2023/12/08 RESP. ENG. R. SEGU 2023/12/08 LEAD DISC. ENG. R. SEGU 2023/12/08 ENG. MANAGER V. VENTURINI 2023/12/08		ROLE NAME SIGNATURE DATE		SCALE 1:500 OR AS NOTED DWG. No. H370327-0000-225-270-3012 REV 0	
REFERENCE DRAWINGS		REG. PROFESSIONAL		No.		DESCRIPTION		BY		CHK'D		DATE		DRAWING APPROVAL STATUS: Approved for Use					
						REVISIONS													

DWG. No. H370327-0000-225-270-3013

STAIRS BEHIND THE WALL
ARRANGEMENT TBD

JULY 2020
BEACH PROFILE (VARIES)

APRIL 2022
BEACH PROFILE (VARIES)

2050 (TYP)

VERTICAL WALL

TPS
ALIGNMENT

INTEGRATED STAIRS
(LOCATION TBD)

RC CAPPING BEAM

TOP OF PILE CAP
RL +6.00m AHD

ARCHITECTURAL PANEL
(RC FINISH CONCEPT SHOWN)

RL+4.2m BOTTOM OF ACCESS STAIRS
APPROXIMATELY AT EXISTING BEACH LEVEL

1800
(TYP)

ENGINEERED FILL
(BY OTHERS)

GEOTEXTILE

SECANT PILE WALL

PERMANENT WORKS
LIMIT (INDICATIVE)

▽ +3.2m AHD

+3.1m AHD
▽ DESIGN WATER LEVEL

250

▽ 0.08m AHD (MSL)

▽ -0.92m AHD (LAT)

-2.0m AHD CD SCOUR LEVEL

2050 (TYP)

VERTICAL WALL

TPS ALIGNMENT

STAIRS BEHIND THE WALL
ARRANGEMENT TBD

ENGINEERED FILL
(BY OTHERS)

GEOTEXTILE

RC CAPPING BEAM

SECANT PILE WALL

PERMANENT WORKS
LIMIT (INDICATIVE)

INTEGRATED STAIRS
250mm (GOING)
180mm (STEPS)

ARCHITECTURAL PANEL
(RC FINISH CONCEPT SHOWN)

APRIL 2022
BEACH PROFILE (VARIES)

RL+ 4.20m AHD BOTTOM OF ACCESS STAIRS
APPROXIMATELY AT EXISTING BEACH LEVEL

TOP OF PILE CAP
RL +7.00m AHD

1800
(TYP)

250

▽ +3.2m AHD

▽ +3.1m AHD
DESIGN WATER LEVEL

▽ 0.08m AHD (MSL)

▽ -0.92m AHD (LAT)

-2.0m AHD CD SCOUR LEVEL

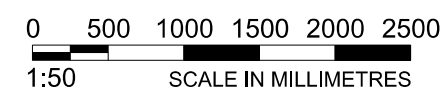
JULY 2020
BEACH PROFILE (VARIES)

TYPICAL TPS SECTION WITH STAIRWAYS

NOTES:

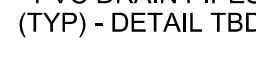
1. FOR DRAWING LIST REFER TO H370327-0000-225-294-3001
2. FOR GENERAL NOTES REFER TO H370327-0000-225-294-3002 & H370327-0000-225-294-3003

PRELIMINARY
NOT FOR CONSTRUCTION

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TYPICAL SECTION - RL +6.0m AHD VERTICAL WALL ONLY



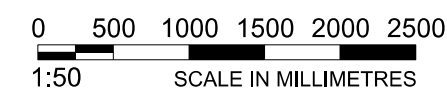
TYPICAL SECTION - RL +7.0m AHD VERTICAL WALL ONLY

TYPICAL TPS SECTION WITHOUT STAIRWAYS

NOTES:

1. FOR DRAWING LIST REFER TO H370327-0000-225-294-2001
2. FOR GENERAL NOTES REFER TO H370327-0000-225-294-2002 & H370327-0000-225-294-2003

PRELIMINARY
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