

PORT BEACH SAND NOURISHMENT

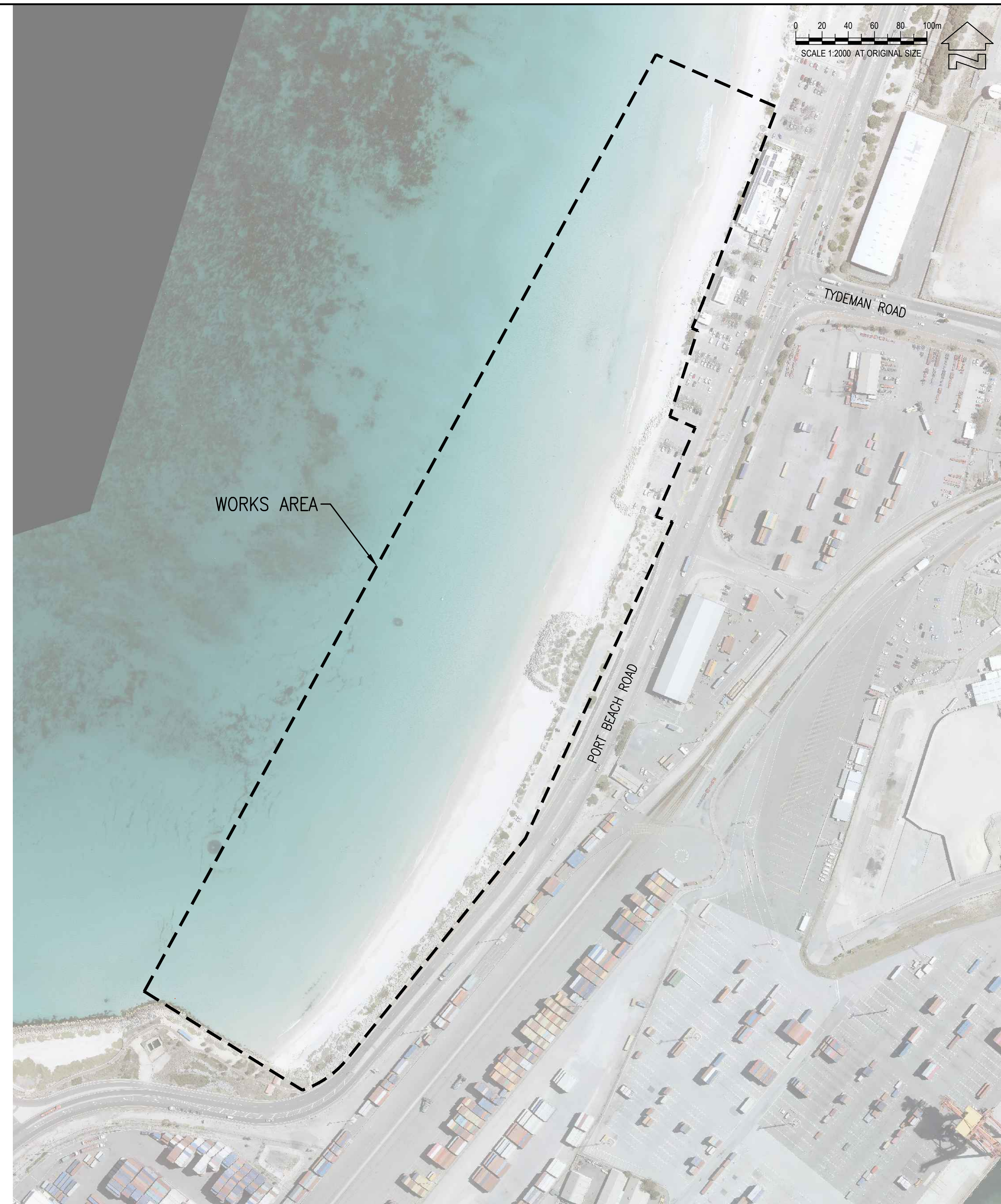
| DRAWING No. | TITLE |
|-------------|---|
| D1746-02-01 | DRAWING LIST & LOCALITY PLAN |
| D1746-02-02 | GENERAL ARRANGEMENT |
| D1746-03-01 | EXISTING CONDITIONS & SURVEY - SHEET 1 OF 2 |
| D1746-03-02 | EXISTING CONDITIONS & SURVEY - SHEET 2 OF 2 |
| D1746-04-01 | LAYOUT - SHEET 1 OF 2 |
| D1746-04-02 | LAYOUT - SHEET 2 OF 2 |
| D1746-05-01 | SECTIONS & DETAILS - SHEET 1 OF 2 |
| D1746-05-02 | SECTIONS & DETAILS - SHEET 2 OF 2 |
| D1746-06-01 | DUNE STABILISATION |

1. THESE DRAWINGS ARE TO BE READ IN CONJUNCTION WITH THE TECHNICAL SPECIFICATION. ANY DISCREPANCIES ARE TO BE REFERRED TO THE SUPERINTENDENT BEFORE PROCEEDING.
2. SURVEY PROVIDED BY DEPARTMENT OF TRANSPORT, COMPLETED IN APRIL 2020. THE LEVELS AND CONTOURS REFLECT THE CONDITIONS OF THE SITE AT THE TIME OF SURVEY ONLY.
3. HORIZONTAL DATUM IS MAP GRID OF AUSTRALIA 1994 (MGA94), VERTICAL DATUM IS CHART DATUM (CD).
4. THE CONTRACTOR SHALL CONFIRM THE LOCATION OF & PROTECT ANY SERVICES IN THE WORKS AREA. CONTACT DIAL BEFORE YOU DIG ON 1100.
5. SET OUT COORDINATES AND DIMENSIONS ARE TO BE CONFIRMED ON SITE PRIOR TO WORKS COMMENCING. REFER ANY DISCREPANCY TO THE SUPERINTENDENT. IF IN DOUBT ASK.
6. AERIAL PHOTOGRAPH SOURCED FROM NEARMAP, TAKEN IN NOVEMBER 2019.
7. DISTANCES AND LEVELS SHOWN IN METRES, UNLESS NOTED OTHERWISE.
8. SITE ACCESS AND LAYDOWN AREAS TO BE CONFIRMED WITH SUPERINTENDENT PRIOR TO WORKS.
9. ON COMPLETION OF THE WORKS A SET OF MARKED UP AND SIGNED "AS CONSTRUCTED" DRAWINGS SHALL BE FORWARDED TO THE SUPERINTENDENT.

Figure 1 is a schematic diagram of the experimental setup. It shows a vertical glass tube containing a solution. A central electrode (AHD) is surrounded by a magnetic field (HAT, MHI-W, MSL, MLLW, LAT, and 0.00 mCD). The magnetic field is applied horizontally. The AHD is connected to a power source (0.63 mAHD, 0.38 mAHD, 0.04 mAHD, -0.30 mAHD, -0.51 mAHD, -0.77 mAHD). The magnetic field is applied horizontally (HAT, MHI-W, MSL, MLLW, LAT, and 0.00 mCD). The AHD is connected to a power source (0.63 mAHD, 0.38 mAHD, 0.04 mAHD, -0.30 mAHD, -0.51 mAHD, -0.77 mAHD).

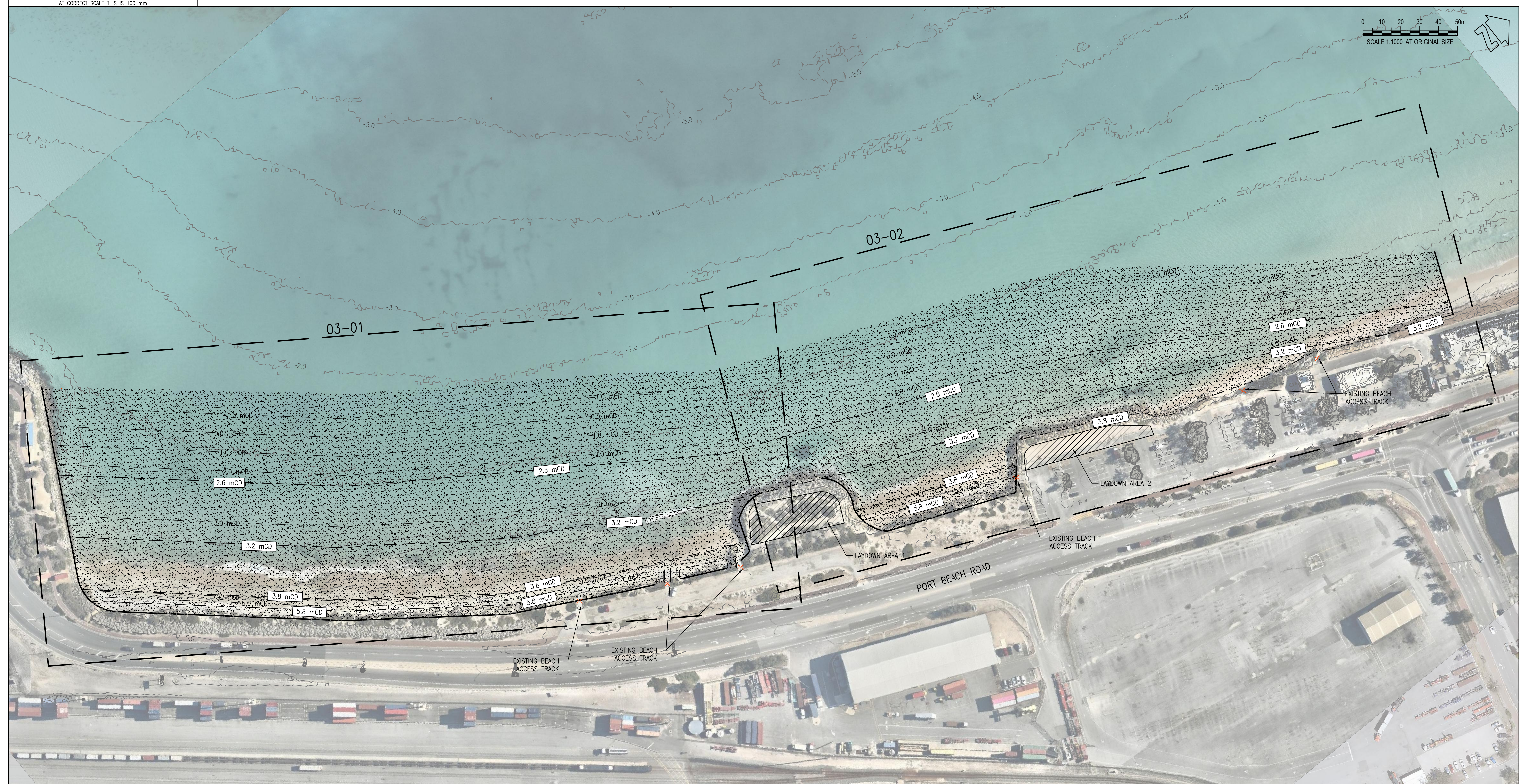
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CURVE DOT 01615-13-02A 26/04/2017

1:20



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LEGEND:

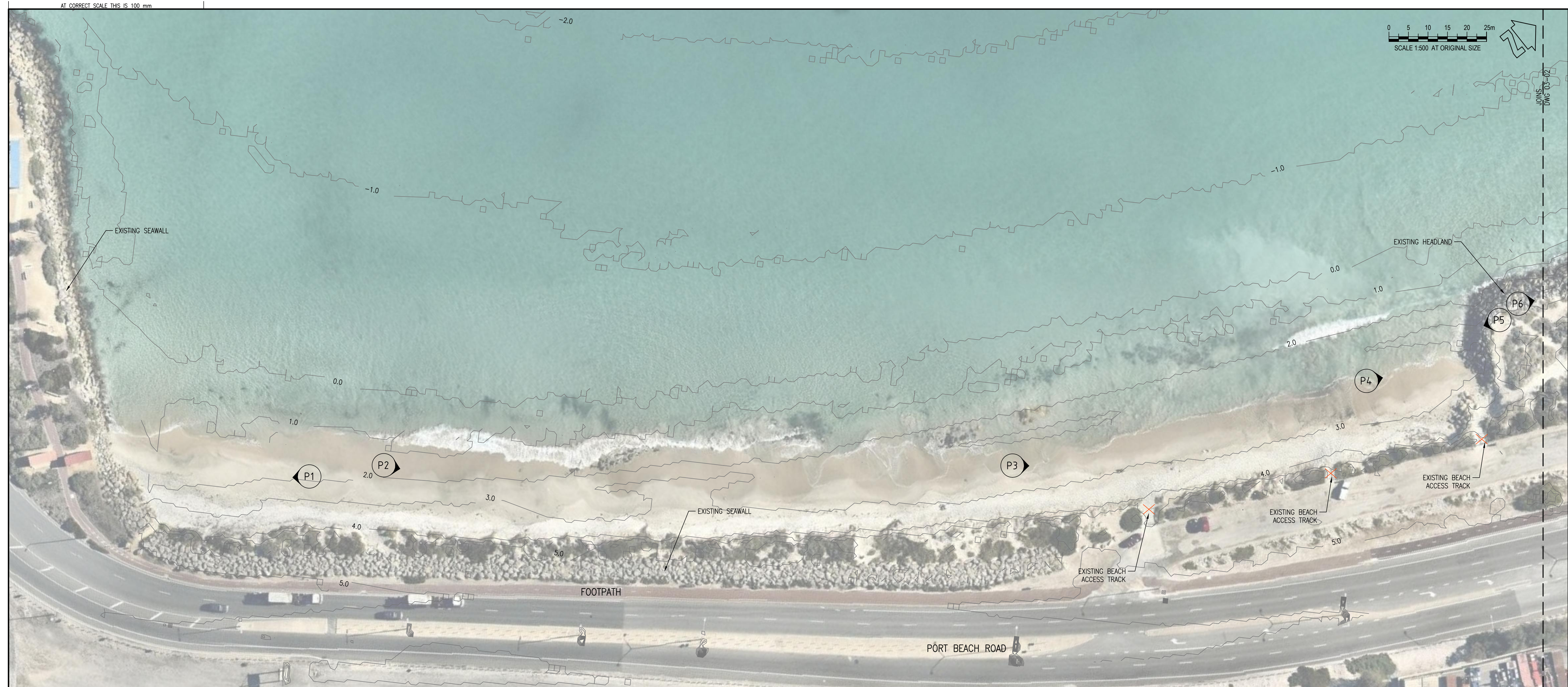
- | | | | |
|--|----------------------------|--|--------------------|
| | SAND NOURISHMENT | | LAYDOWN AREA |
| | DESIGN LEVEL MAJOR CONTOUR | | EXISTING CONTOUR |
| | DESIGN LEVEL MINOR CONTOUR | | BEACH ACCESS TRACK |

NOTES:

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- AERIAL PHOTOGRAPH SOURCED FROM NEARMAP TAKEN IN MAY 2020.
- CONTOURS SHOWN AT 1.0m INTERVALS.

AT CORRECT SCALE THIS IS 100 mm

| | | | | | | | | | | | |
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| | | | | | | | | CAD:D17460202[A] | | | |
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| | | | | | | | | APPROVED | | | |
| | | | | | | | | DRAWN R BORJA | | | |
| | | | | | | | | CHECKED C DOAK | | | |
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| | | | | | | | | PROJECT PORT BEACH SAND NOURISHMENT | | | |
| | | | | | | | | TITLE GENERAL ARRANGEMENT | | | |
| | | | | | | | | SCALE AT A1 1:1,000 | | | |
| | | | | | | | | DRAWING NUMBER D1746-02-02 | | | |
| | | | | | | | | REV A | | | |



PHOTOGRAPH 1



PHOTOGRAPH 2



PHOTOGRAPH 3



PHOTOGRAPH 4



PHOTOGRAPH 5



PHOTOGRAPH 6

LEGEND:

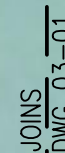
- 1.0 EXISTING CONTOUR
- X BEACH ACCESS TRACK
- P1 PHOTO LOCATION, PHOTOS TAKEN IN APRIL 2020.

NOTES:

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- AERIAL PHOTOGRAPH SOURCED FROM NEARMAP TAKEN IN MAY 2020.
- CONTOURS SHOWN AT 1.0m INTERVALS.

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| | | | | | | | | | | | | | DESIGNED L DE LUCIA | | | | | | | | CHECKED C DOAK | | APPROVED | | | | | |
| | | | | | | | | | | | | | DRAWN R BORJA | | | | | | | | CHECKED C DOAK | | | | | | | |
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| A | 10.02.21 | CRD | PRELIMINARY ISSUE | | | | | | | | | | | | | | | | | | | | | | | | | |
| REV | DATE | APPROVED | AMENDMENT | REV | DATE | APPROVED | AMENDMENT | | | | | | | | | | | | | SCALE AT A1 1:500 | | | | DRAWING NUMBER D1746-03-01 | | | | REV A |



PHOTOGRAPH 8



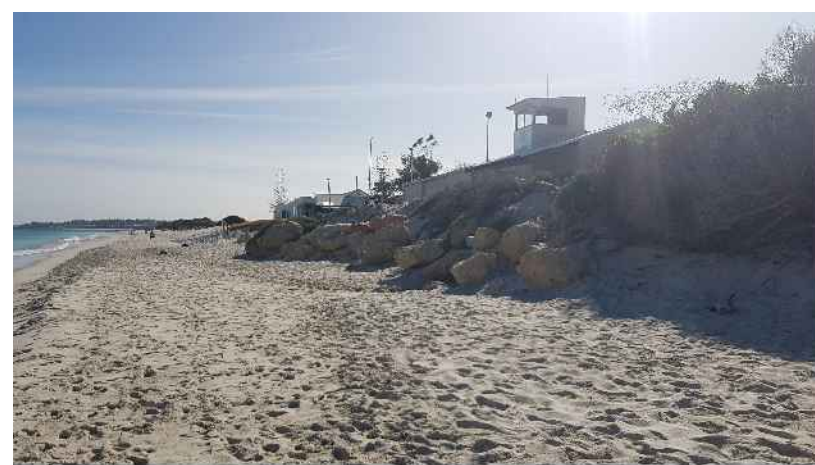
PHOTOGRAPH 9



PHOTOGRAPH 10



PHOTOGRAPH 11



PHOTOGRAPH 12



PHOTOGRAPH 13

1.0 — CONTOUR

✗ BEACH ACCESS TRACK

— DRAINAGE OUTLET

P1 PHOTO LOCATION, PHOTOS TAKEN IN APRIL 2020.

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3. AERIAL PHOTOGRAPH SOURCED FROM NEARMAP TAKEN IN MAY 2020.
4. CONTOURS SHOWN AT 1.0m INTERVALS.

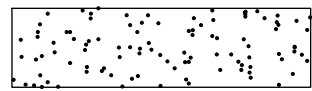
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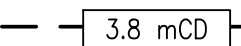
AT CORRECT SCALE THIS IS 100 mm

| SAND NOURISHMENT VOLUMES | | |
|--------------------------|---------|--------------------------|
| SOP# | SECTION | VOLUME (m ³) |
| SOP1-SOP2 | A | 55,000 |
| SOP2-SOP3 | | 43,000 |
| SOP3-SOP4 | B | 8,000 |
| SOP4-SOP5 | C | 21,000 |
| SOP5-SOP6 | D, E | 23,000 |
| TOTAL VOLUME | | 150,000 |

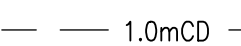
LEGEND:



SAND NOURISHMENT



DESIGN LEVEL MAJOR CONTOUR



DESIGN LEVEL MINOR CONTOUR



SETOUT POINT



EXISTING CONTOUR

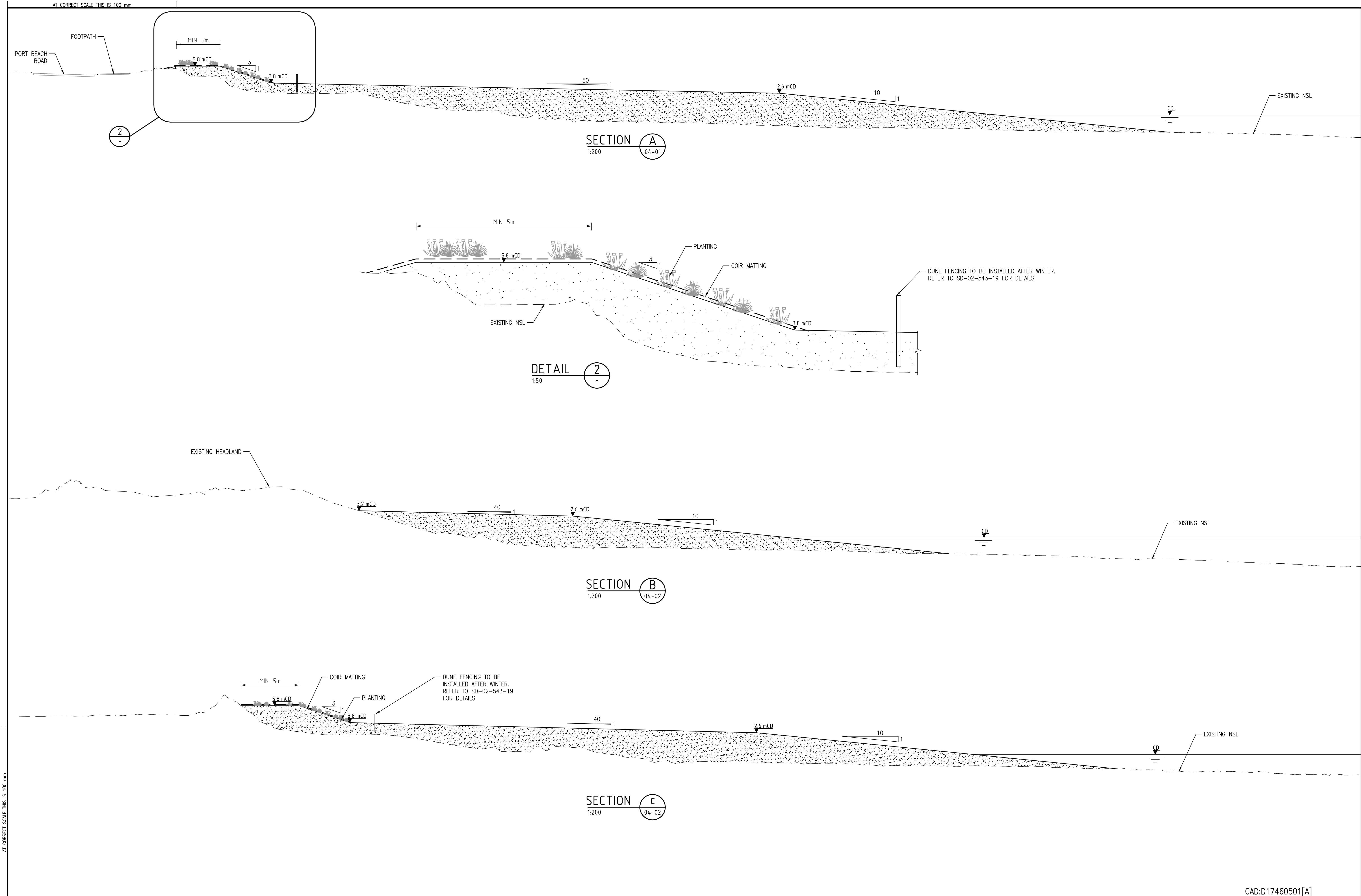


BEACH ACCESS TRACK

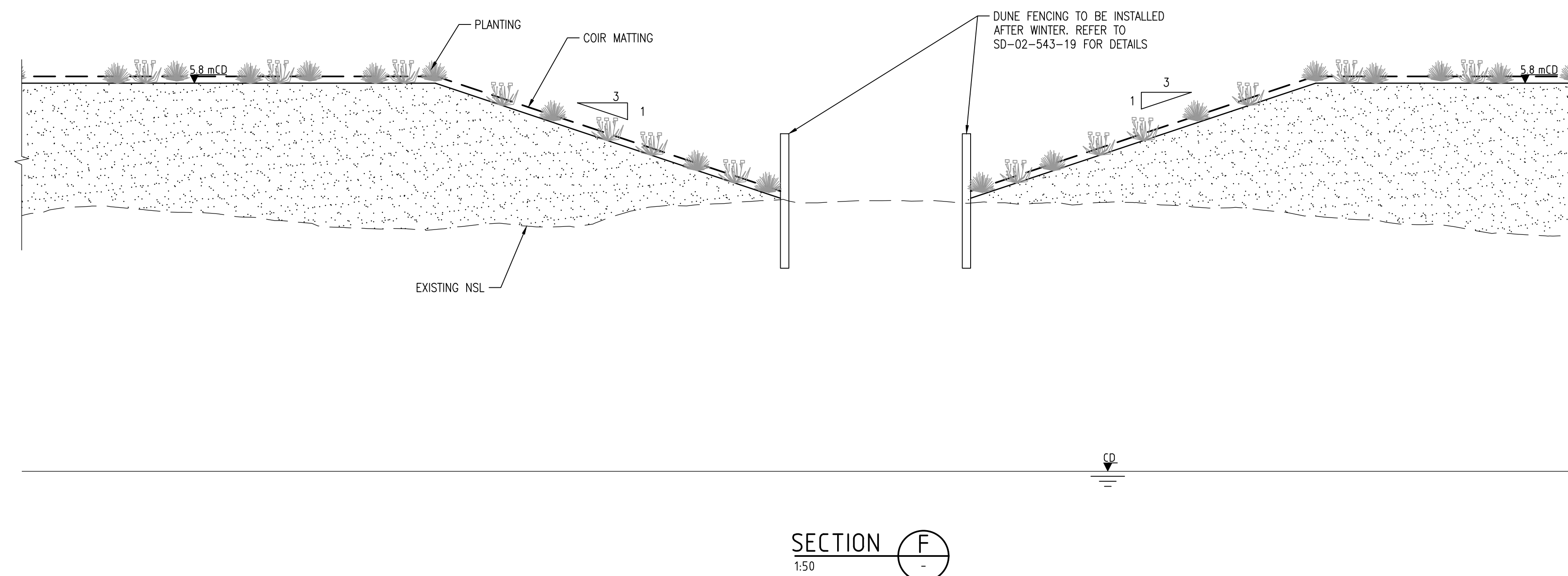
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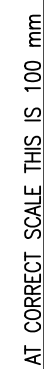
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- CONTOURS SHOWN AT 1.0m INTERVALS.

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| | | | | | | | | TITLE LAYOUT SHEET 1 OF 2 | | | |
| | | | | | | | | SCALE AT A1 1:500 | | | |
| | | | | | | | | DRAWING NUMBER D1746-04-01 | | | |
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| | | | | | | | | PROJECT PORT BEACH SAND NOURISHMENT | |
| | | | | | | | | TITLE SECTIONS & DETAILS SHEET 1 OF 2 | |
| | | | | | | | | SCALE AT A1 AS SHOWN | |
| | | | | | | | | DRAWING NUMBER D1746-05-01 | |
| | | | | | | | | REV A | |

[illegible]



SAND NOURISHMENT

DUNE FENCING

— 1.0 —

EXISTING CONTOUR


BEACH ACCESS TRACK

— — 3.8 mCD

DESIGN LEVEL MAJOR CONTOUR

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| | | | | | | | |
| A | 10.02.21 | CRD | PRELIMINARY ISSUE | | | | |
| REV | DATE | APPROVED | AMENDMENT | REV | DATE | APPROVED | AMENDMENT |

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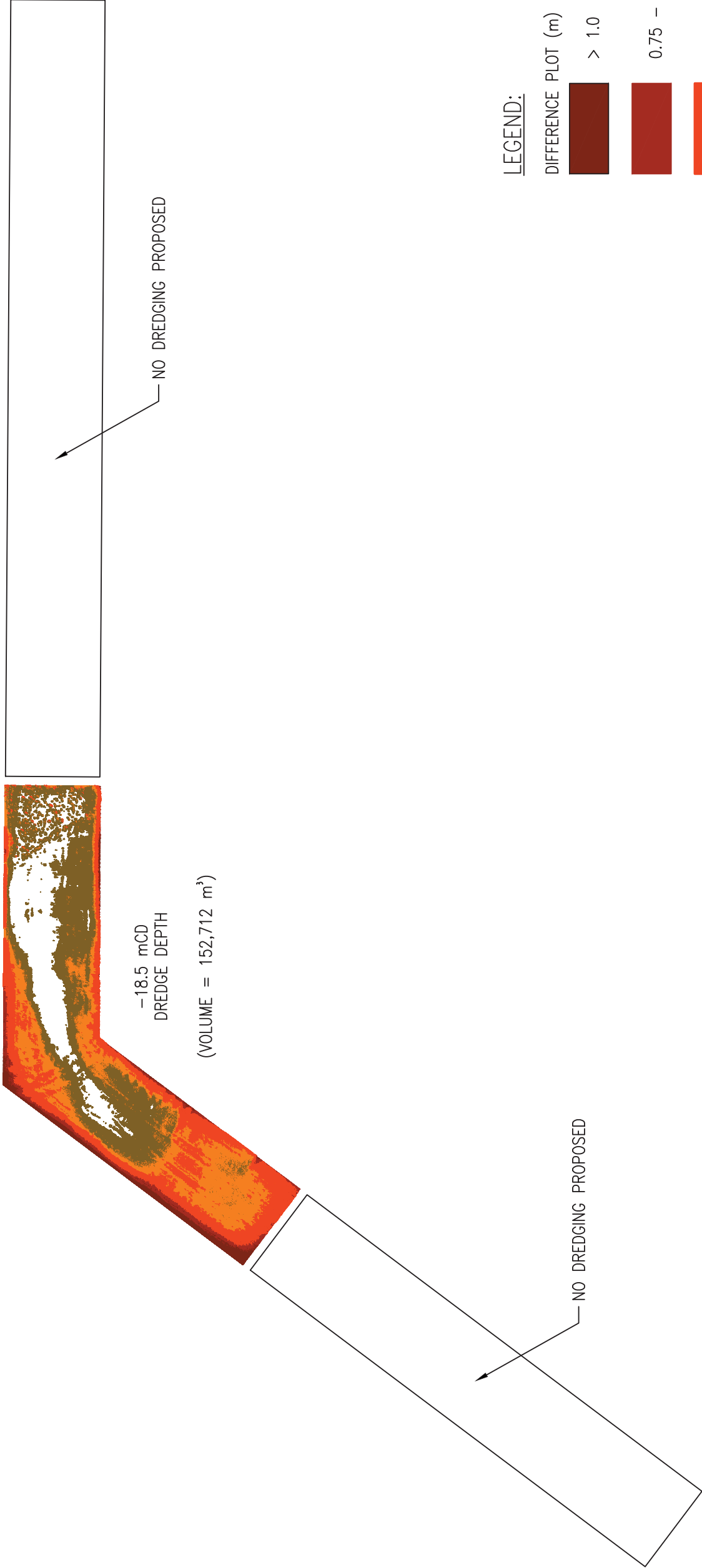
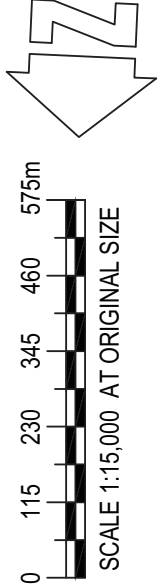
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Western Australia

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A

AT CORRECT SCALE THIS IS 100 mm



LEGEND:

DIFFERENCE PLOT (m)



> 1.0



0.75 – 1.00



0.50– 0.75



0.25 – 0.50



0 – 0.25

AT CORRECT SCALE THIS IS 100 mm

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DRAWN

R BORJA

CHECKED

C DOAK

DIFFERENCE PLOT

CITY OF FREMANTLE – DEEPWATER CHANNEL

SCALE
AT A3

1:15,000

MARCH 2021

SK1746–04–03A