

Appendix E Bypassing Surveys



LOCATION SKETCH
NOT TO SCALE

LEVEL SURVEY PRIOR TO EARTHWORKS (14.10.2021)



Photo ④



Photo ③

Legend

- Contour Major 1.0m Intervals
- Contour Minor 0.5m Intervals
- Rock Outcrop
- Water Level
- Fence Line
- Setout Point (03.12.2018)
- Natural Surface
- Water Level
- Survey Control Mark

Control & Setout Point Schedule

Point	Easting	Northing	Elevation	Code
9000	381008.067	6478062.168	5.72	726
9002	381087.045	6477981.719	6.02	726
9003	381121.851	6477846.120	1.76	726
SCP2	380931.000	6478130.000		
SCP3	380431.000	6478915.000		
SCP1	381154.000	6477885.000		

Scale @A1 1:500
0 5 10 15 20 25

18147-F07-1.0 (OCT2021-PREWORKS).dwg

VER.	DATE	BY	AMENDMENTS	FILE SOURCE
1.0	18.10.2021	MDR	Issued for Information	18147-8-0-14102021-MGA94-(PRE SURVEY)

- Notes:**
- Heights established from VRS via GPS connection.
 - Setout Points Derived from Client DWG : D1540-01-01



CLIENT:

m p rogers & associates pl
creating better coasts and ports

JOB NO: 18147	TITLE: PRE-WORKS SURVEY
PROJECT:	HILLARYS SAND BYPASS SURVEYS WEST COAST DRIVE HILLARYS, WA, 6025 OCTOBER 2021
SURVEYOR: WL	DATE OF SURVEY: 14.10.2021 DRAWN BY: MDR APPROVED BY: NRW

DATUM	N
VERT: AHD	
HORIZ: MGA94 Z50	
SCALE: 1:500	VER: 1.0
DWG NO: 18147-F07	SHEET NO: 1 OF 3



LOCATION SKETCH
NOT TO SCALE

LEVEL SURVEY PRIOR TO EARTHWORKS (14.10.2021)



Photo ④



Photo ③

Legend

	Contour Major 1.0m Intervals
	Contour Minor 0.5m Intervals
	Rock Outcrop
	Water Level
	Fence Line
	Setout Point (03.12.2018)
	Natural Surface
	Water Level
	Survey Control Mark

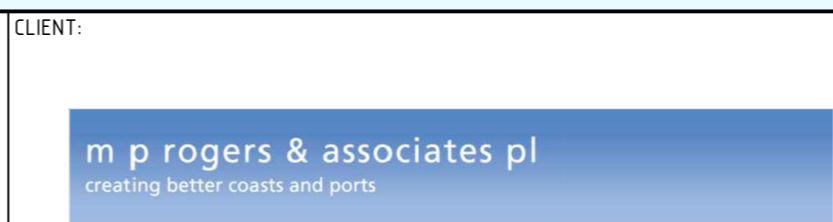
Control & Setout Point Schedule

Point	Easting	Northing	Elevation	Code
9000	381008.067	6478062.168	5.72	726
9002	381087.045	6477981.719	6.02	726
9003	381121.851	6477846.120	1.76	726
SCP2	380931.000	6478130.000		
SCP3	380431.000	6478915.000		
SCP1	381154.000	6477885.000		

Scale @A1 1:500
0 5 10 15 20 25

VER	DATE	BY	AMENDMENTS	FILE SOURCE
1.0	18.10.2021	MDR	Issued for Information	18147-8-0-14102021-MGA94-(PRE SURVEY)

Notes:
1. Heights established from VRS via GPS connection.
2. Setout Points Derived from Client DWG : D1540-01-01



JOB NO: 18147	TITLE: PRE-WORKS SURVEY	DATUM	N	
PROJECT:	HILLARYS SAND BYPASS SURVEYS WEST COAST DRIVE HILLARYS, WA, 6025 OCTOBER 2021	VERT: AHD HORIZ: MGA94 Z50 SCALE: 1:500		
SURVEYOR: WL		DATE OF SURVEY: 14.10.2021	DRAWN BY: MDR	APPROVED BY: NRW
DWG NO: 18147-F07		SHEET NO: 2 OF 3		VER: 1.0

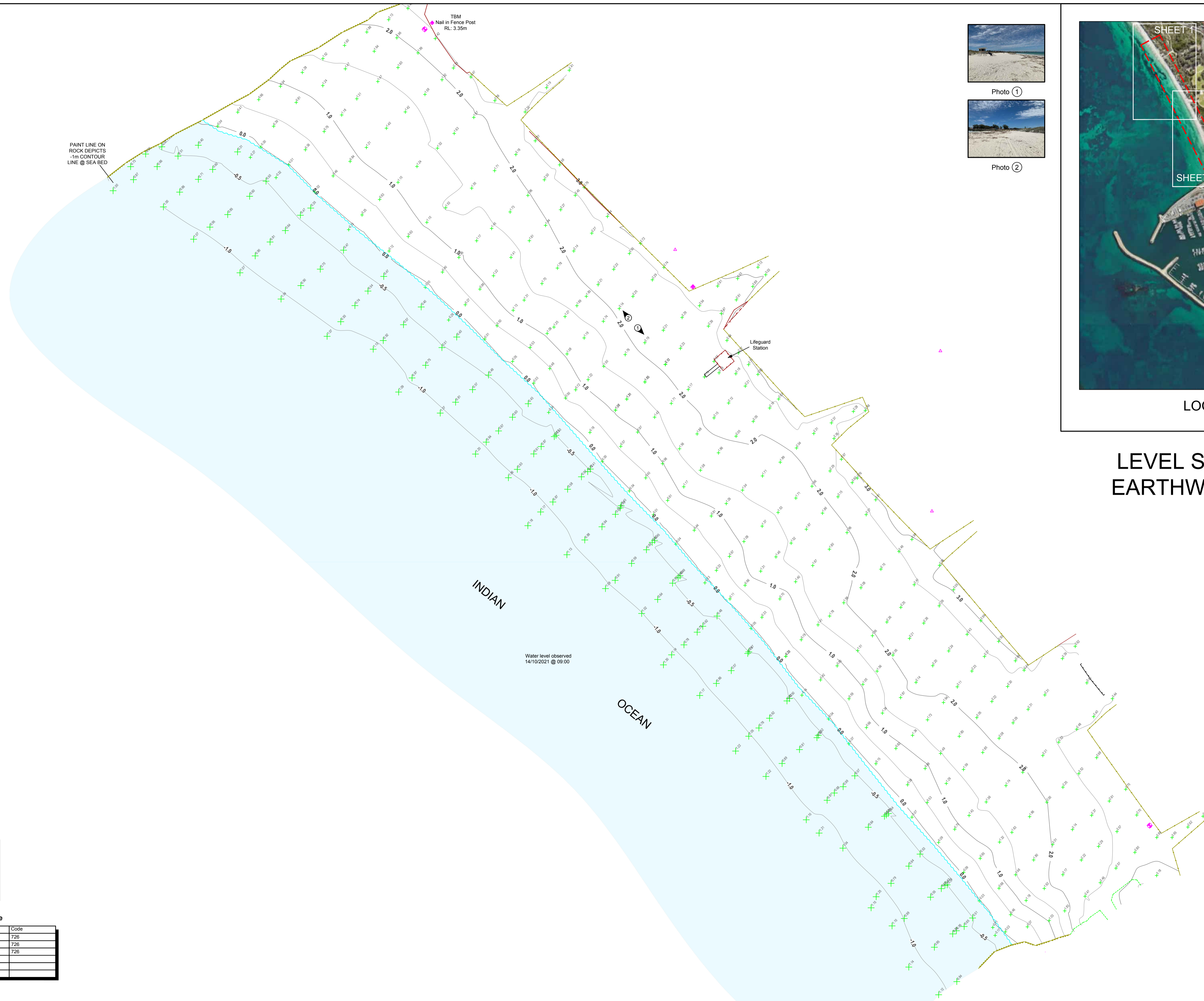


Photo ①



Photo ②



LOCATION SKETCH
NOT TO SCALE

LEVEL SURVEY PRIOR TO EARTHWORKS (14.10.2021)

WEST COAST DRIVE

Legend

	Contour Major 1.0m Intervals
	Contour Minor 0.5m Intervals
	Rock Outcrop
	Water Level
	Fence Line
	Setout Point (03.12.2018)
	Natural Surface
	Water Level
	Survey Control Mark

Control & Setout Point Schedule

Point	Easting	Northing	Elevation	Code
9000	381008.067	6478062.168	5.72	726
9002	381087.045	6477981.719	6.02	728
9003	381121.851	6477846.120	1.76	726
SCP2	380931.000	6478130.000		
SCP3	380431.000	6478915.000		
SCP1	381154.000	6477885.000		

Scale @A1 1:600
0 6 12 18 24 30

18147-F07-1.0_(OCT2021-PREWORKS).dwg

VER.	DATE	BY	AMENDMENTS	FILE SOURCE
1.0	18.10.2021	MDB	Issued for Information	18147-8.0-14102021-MGA94-(PRE SURVEY)

Notes:
 1. Heights established from VRS via GPS connection.
 2. Setout Points Derived from Client DWG : D1540-01-01

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 web: www.jbasurveys.com.au

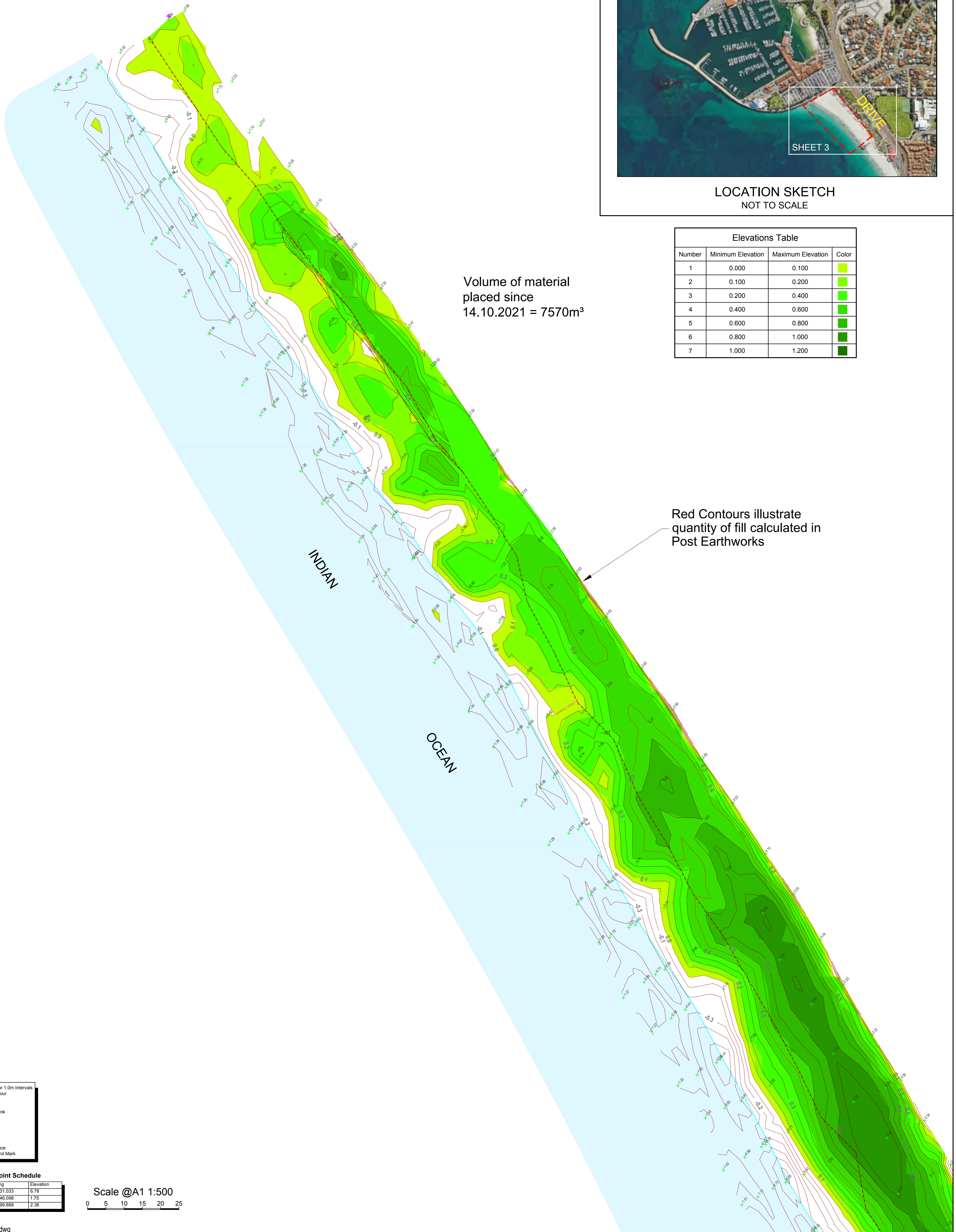
CLIENT:
m p rogers & associates pl
 creating better coasts and ports

JOB NO: 18147	TITLE: PRE-WORKS SURVEY	DATUM	N
PROJECT:	HILLARYS SAND BYPASS SURVEYS WEST COAST DRIVE HILLARYS, WA, 6025 OCTOBER 2021	VERT: AHD HORIZ: MGA94 Z50 SCALE: 1:600	
SURVEYOR: WL	DATE OF SURVEY: 14.10.2021	DRAWN BY: MDB	VER: 1.0
APPROVED BY: NRW	SHEET NO: 3 OF 3	A1	

LEVEL SURVEY POST EARTHWORKS (12.11.2021)



LOCATION SKETCH
NOT TO SCALE



Volume of material
placed since
14.10.2021 = 7570m³

Elevations Table			
Number	Minimum Elevation	Maximum Elevation	Color
1	0.000	0.100	Lightest Green
2	0.100	0.200	Light Green
3	0.200	0.400	Medium Green
4	0.400	0.600	Dark Green
5	0.600	0.800	Very Dark Green
6	0.800	1.000	Dark Green
7	1.000	1.200	Darkest Green

Red Contours illustrate
quantity of fill calculated in
Post Earthworks

Legend

- Contour Major 1.0m Intervals
- Volume Contour
- Building
- Steps
- Bottom of Bank
- Top of Bank
- Water Level
- Fence Line
- Litter Bin
- Setout Point
- Natural Surface
- Survey Control Mark

Control & Setout Point Schedule

Point	Easting	Northing	Elevation
9000	381089.647	6478031.033	8.78
9001	381121.863	6477848.098	1.75
9002	380848.943	6479099.889	2.38

Scale @A1 1:500
0 5 10 15 20 25

LEVEL SURVEY POST EARTHWORKS (12.11.2021)

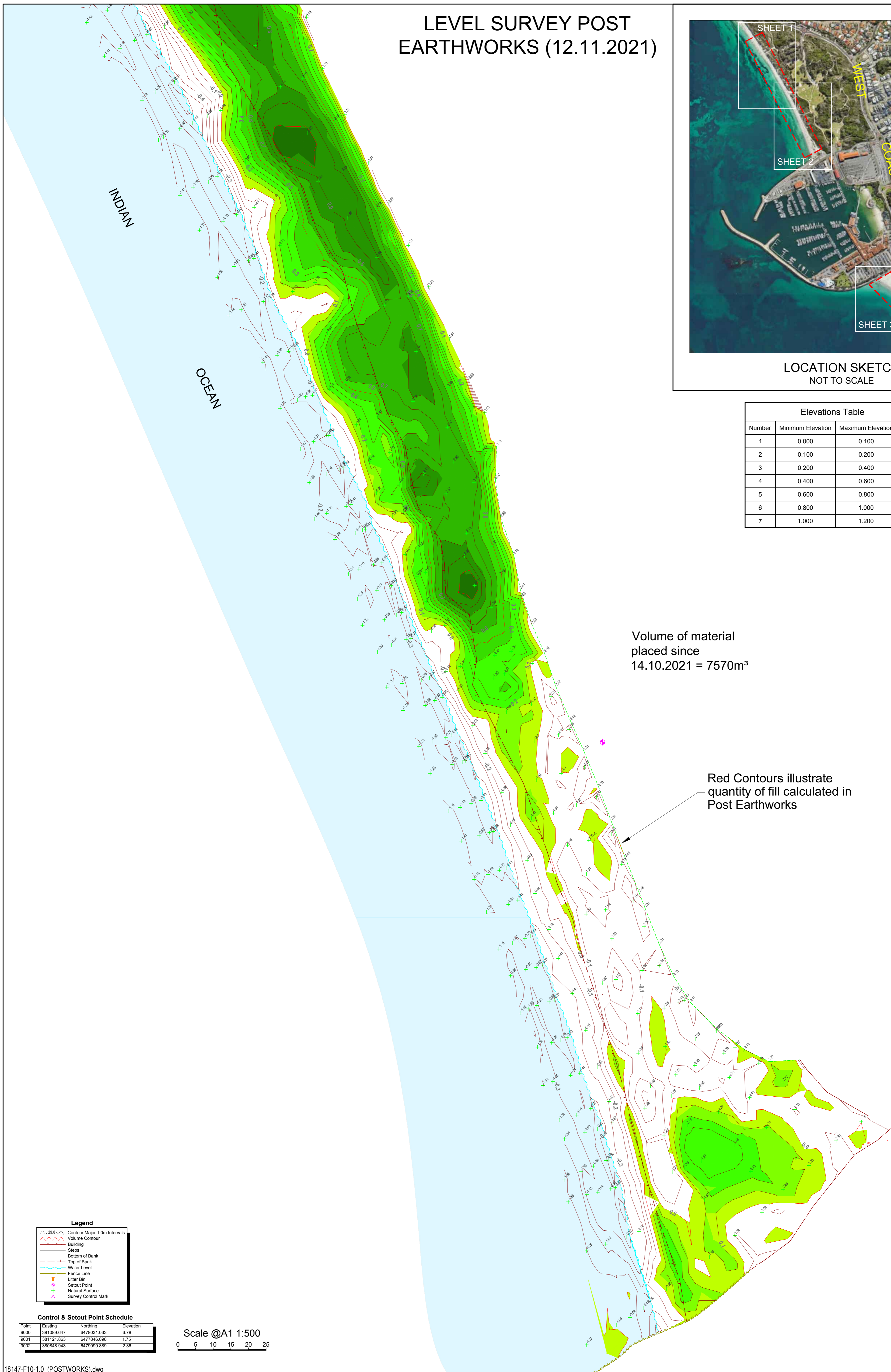


LOCATION SKETCH
NOT TO SCALE

Elevations Table			
Number	Minimum Elevation	Maximum Elevation	Color
1	0.000	0.100	Lightest Green
2	0.100	0.200	Light Green
3	0.200	0.400	Medium Green
4	0.400	0.600	Dark Green
5	0.600	0.800	Very Dark Green
6	0.800	1.000	Dark Green
7	1.000	1.200	Darkest Green

Volume of material placed since 14.10.2021 = 7570m³

Red Contours illustrate quantity of fill calculated in Post Earthworks

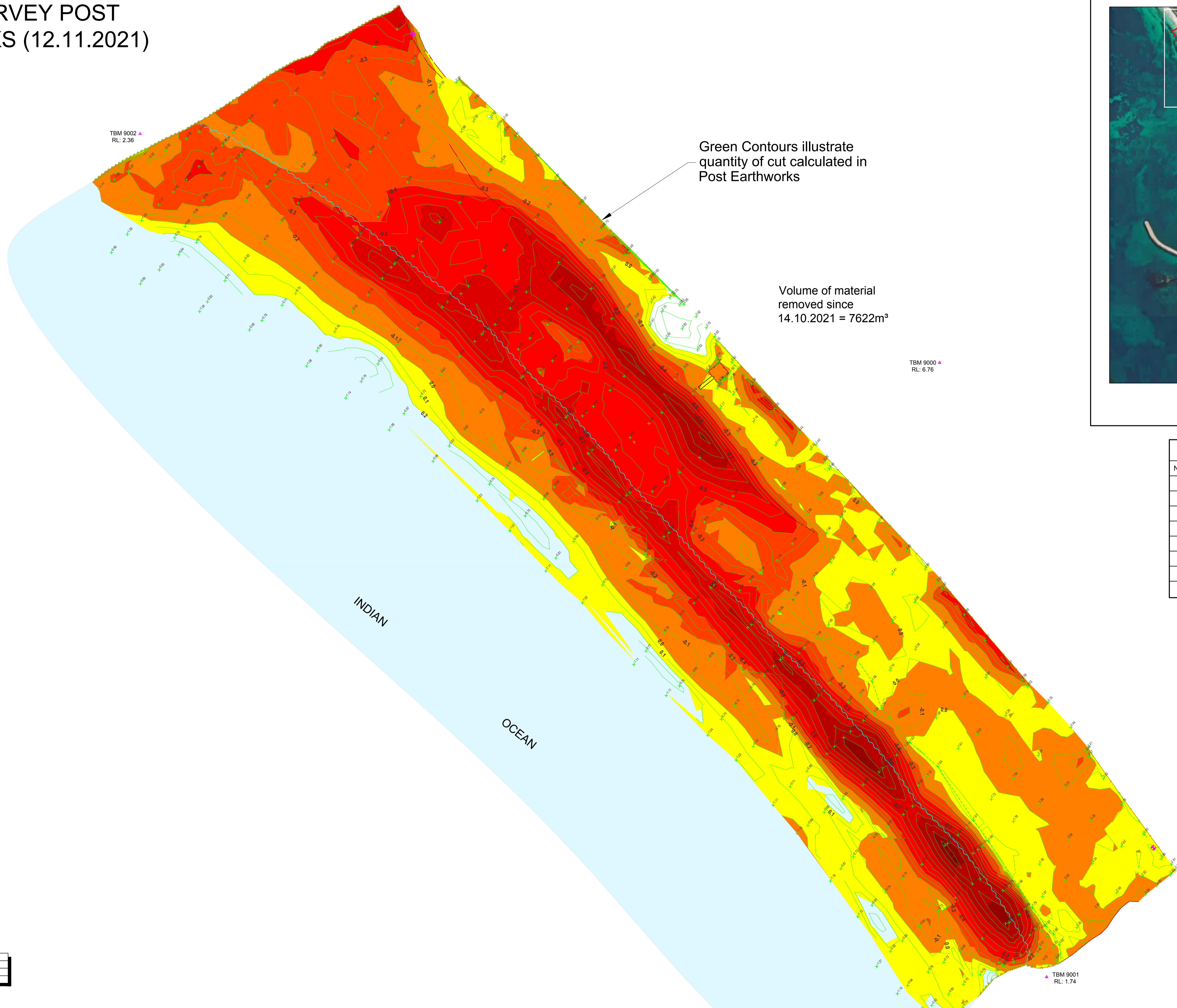


Legend			
	Contour Major 1.0m Intervals		Volume Contour
	Building		Steps
	Bottom of Bank		Top of Bank
	Water Level		Fence Line
	Litter Bin		Setout Point
	Natural Surface		Survey Control Mark

Control & Setout Point Schedule			
Point	Easting	Northing	Elevation
9000	381089.647	6478031.033	6.78
9001	381121.863	6477848.098	1.75
9002	380848.943	6479099.889	2.38

Scale @A1 1:500
0 5 10 15 20 25

LEVEL SURVEY POST EARTHWORKS (12.11.2021)



LOCATION SKETCH
NOT TO SCALE

Elevations Table			
Number	Minimum Elevation	Maximum Elevation	Color
1	-1.165	-1.100	Dark Red
2	-1.100	-1.000	Red
3	-1.000	-0.800	Light Red
4	-0.800	-0.600	Orange-Red
5	-0.600	-0.400	Orange
6	-0.400	-0.200	Light Orange
7	-0.200	0.000	Yellow-Orange
8	0.000	0.200	Yellow

Legend	
	Contour Major 1.0m Intervals
	Volume Contour
	Building
	Steps
	Bottom of Bank
	Top of Bank
	Water Level
	Fence Line
	Litter Bin
	Setout Point
	Natural Surface
	Survey Control Mark

Control & Setout Point Schedule			
Point	Easting	Northing	Elevation
9000	381098.647	6478231.033	6.76
9001	381121.863	6477846.098	1.75
9002	380848.943	6479099.889	2.36

Scale @A1 1:600
0 6 12 18 24 30

VER.	DATE	BY	AMENDMENTS	FILE SOURCE
1.0	15.11.2021	MDB	Issued for Information	18147-9-0-12112021-MGA94-(POST SURVEY)

Notes:
1. Heights established from VRS via GPS connection.
2. Setout Points Derived from Client DWG : D1822-01-01



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CLIENT:

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JOB NO: 18147	TITLE: POST-WORKS SURVEY	DATUM	N
PROJECT: HILLARYS SAND BYPASS SURVEYS WEST COAST DRIVE HILLARYS, WA, 6025		VERT: AHD HORIZ: MGA94 Z50 SCALE: 1:600	
SURVEYOR: JMB		DATE OF SURVEY: 12.11.2021	VER: 1.0
DRAWN BY: MDB		APPROVED BY: NRW	DWG NO: 18147-F10
SHEET NO: 3 OF 3			A1

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