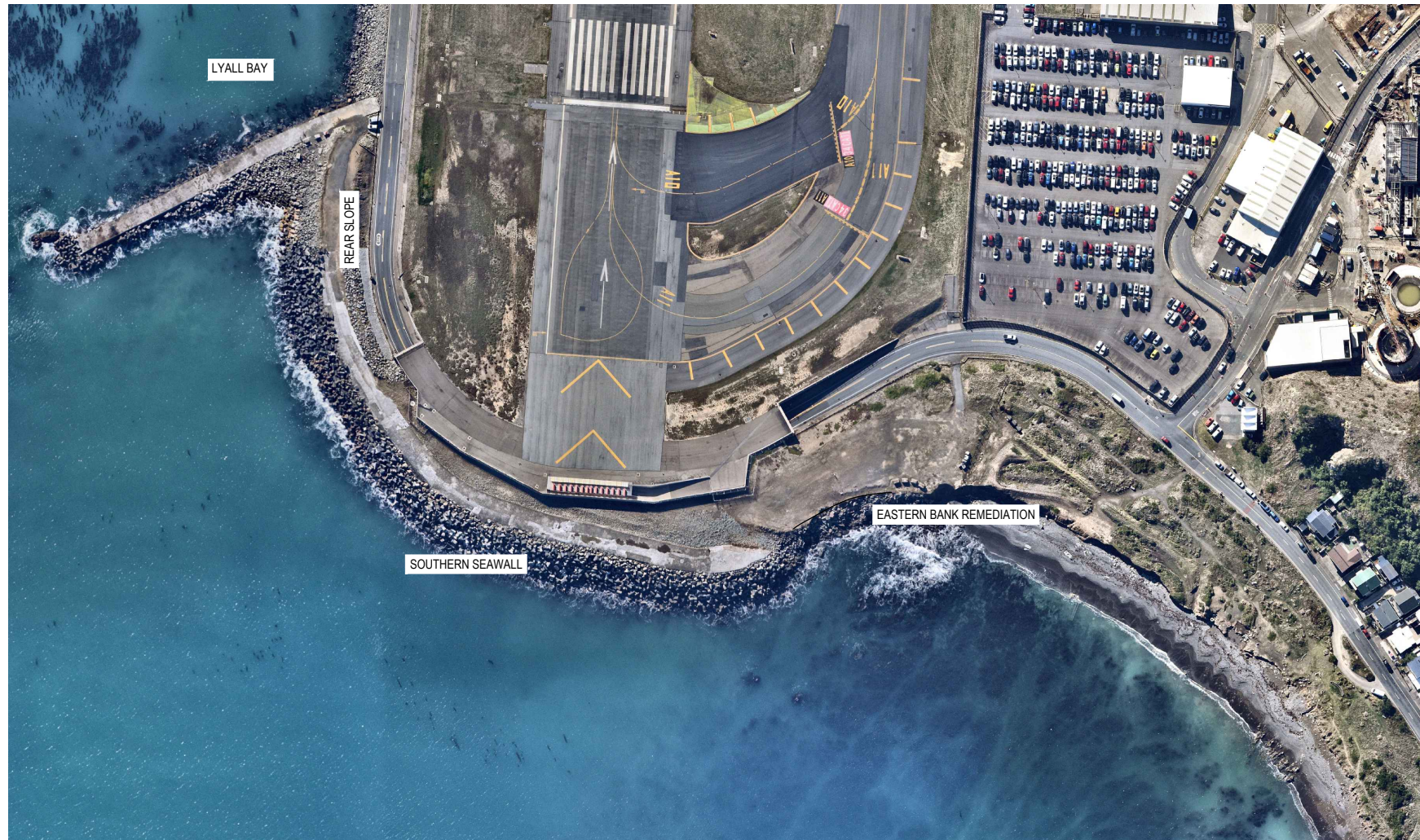


WIAL SEA DEFENCE STRUCTURES RENEWAL SOUTHERN SEAWALL

CIVIL ENGINEERING

Prepared for Wellington International Airport Limited (WIAL)
Prepared by Beca Limited (Beca)
At: Wellington International Airport

Project No.: 3324338
29 AUGUST 2025
Issue for Resource Consent



DRAWING LIST

DRAWING No.	REV	DRAWING TITLE
3324338-CA-SK000	I	COVER SHEET AND DRAWING LIST
3324338-CA-SK001	F	EXISTING BATHYMETRIC AND TOPOGRAPHIC SURVEY
3324338-CA-SK002	H	EXISTING LAYOUT
3324338-CA-SK003	H	EXISTING SECTIONS SHEET 1 OF 3
3324338-CA-SK004	H	EXISTING SECTIONS SHEET 2 OF 3
3324338-CA-SK005	H	EXISTING SECTIONS SHEET 3 OF 3
3324338-CA-SK006	G	EXISTING STRUCTURES TYPICAL SECTIONS
3324338-CA-SK007	J	GENERAL ARRANGEMENT SOUTHERN SEAWALL
3324338-CA-SK008	L	GENERAL ARRANGEMENT EASTERN BANK REMEDIATION
3324338-CA-SK009	M	GENERAL ARRANGEMENT MOA POINT RD YARD
3324338-CA-SK100	I	SOUTHERN SEAWALL SECTIONS SHEET 1 OF 3
3324338-CA-SK101	I	SOUTHERN SEAWALL SECTIONS SHEET 2 OF 3
3324338-CA-SK102	K	SOUTHERN SEAWALL SECTIONS SHEET 3 OF 3
3324338-CA-SK104	K	EASTERN BANK REHABILITATION SECTION
3324338-CA-SK105	G	EXISTING AND PROPOSED SEAWALL TOE AND MHWS LOCATIONS
3324338-CA-SK106	D	LAND USE ZONES PLAN
3324338-CA-SK120	E	STAGE 1 KORORA HABITAT GENERAL ARRANGEMENT & UNDERPASS SECTION
3324338-CA-SK121	D	STAGE 1 KORORA HABITAT UNDERPASS LONG SECTION AND ELEVATION
3324338-CA-SK200	B	MGC CONSTRUCTION YARD EXISTING CONTOURS & SERVICES LAYOUT PLAN
3324338-CA-SK201	B	MGC CONSTRUCTION YARD GENERAL ARRANGEMENT & EXISTING SERVICES
3324338-CA-SK211	B	MGC CONSTRUCTION YARD STORAGE AREAS & STORMWATER DRAINAGE
3324338-CA-SK215	C	MGC CONSTRUCTION YARD LAYOUT PLAN: ROADS, SERVICES & STOCKPILES
3324338-CA-SK216	B	MGC CONSTRUCTION YARD ADDITIONAL EARTHWORKS AREAS
3324338-CA-SK217	C	MGC CONSTRUCTION YARD ISOPACH - CUT AND FILL PLAN
3324338-CA-SK221	C	MGC CONSTRUCTION YARD BULK EARTHWORKS CROSS SECTIONS #1
3324338-CA-SK222	A	MGC CONSTRUCTION YARD BULK EARTHWORKS CROSS SECTIONS #2

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everyday
better.**





- NOTES:**
- HORIZONTAL COORDINATE SYSTEM: NEW ZEALAND TRANSVERSE MERCATOR (NZTM2000).
 - VERTICAL DATUM TO NEW ZEALAND VERTICAL DATUM 2016 (NZVD16).
 - BATHYMETRIC SURVEY DATA:
 - DISCOVERY MARINE LIMITED (DML) CONDUCTED APRIL TO MAY 2021.
 - TOPOGRAPHIC DATA:
 - BECA DRONE SURVEY JAN 2024.

- LEGEND:**
- 5.0 — MAJOR CONTOURS (5.0m INTERVALS)
 - — MINOR CONTOURS (0.5m INTERVALS)

ORIGINAL DRAWING
IN COLOUR
RESOURCE CONSENT
NOT FOR CONSTRUCTION

F	FOR RESOURCE CONSENT	TS	AS	JH	08.04.25
E	FOR RESOURCE CONSENT	AF	AS	JH	28.02.25
D	FOR RESOURCE CONSENT	TS	AS	JH	06.12.24
C	FOR RESOURCE CONSENT	TS	AS	JH	02.12.24
No.	Revision	By	Chk	Appd	Date

Original Scale (A1)	Design	AS & WP	08.04.25	Approved For Construction*
1:750	Drawn	TS	08.04.25	
Reduce Scale (A3)	Design Verifier	JH	08.04.25	
1:1500	Design Check	JH	08.04.25	Date

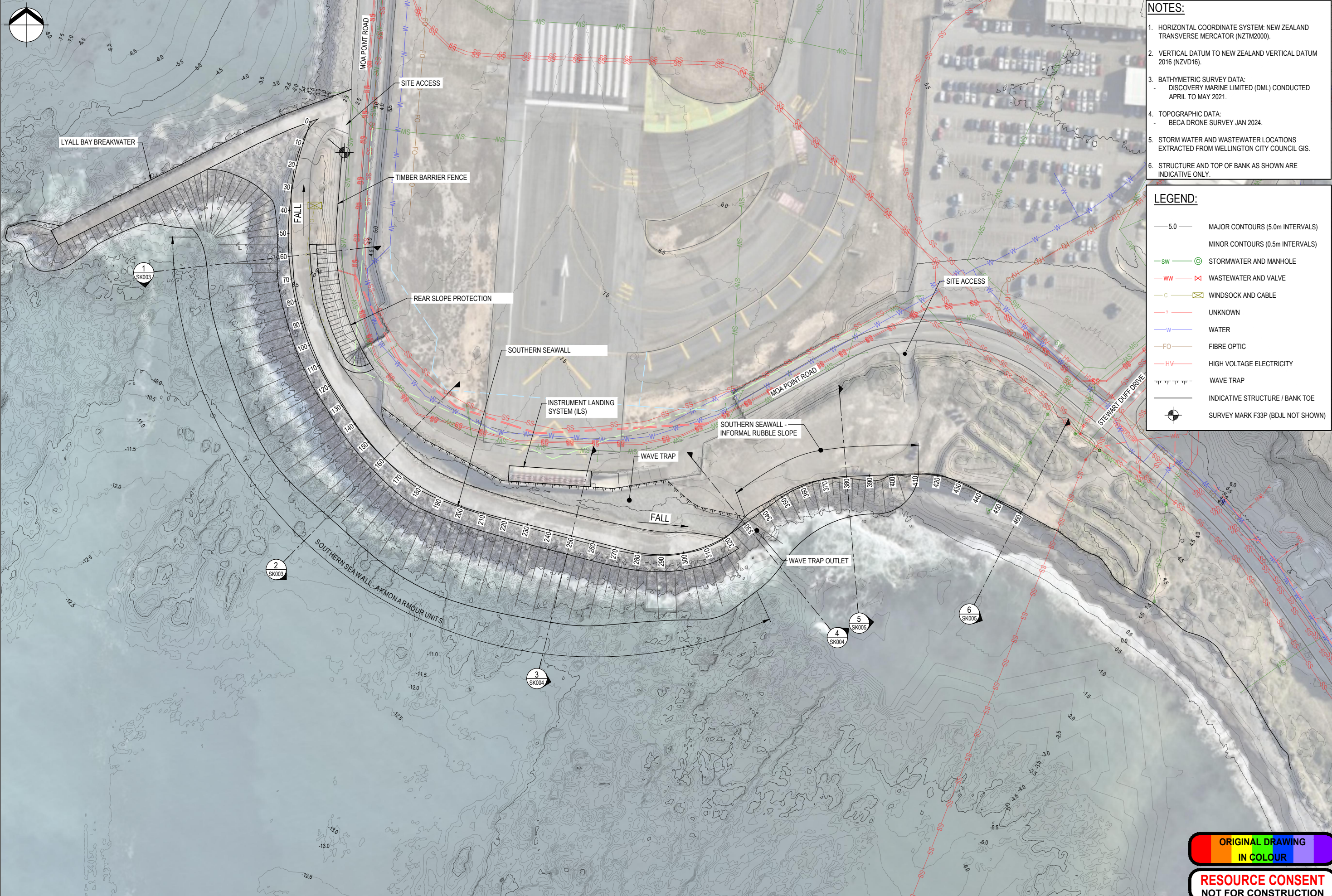
* Refer to Revision 1 for Original Signature



Client: **WIAL SEA DEFENCE STRUCTURES RENEWAL**

Title: **EXISTING BATHYMETRIC AND TOPOGRAPHIC SURVEY**

Discipline	CIVIL ENGINEERING
Drawing No.	3324338-CA-SK001
Rev.	F



- NOTES:**
- HORIZONTAL COORDINATE SYSTEM: NEW ZEALAND TRANSVERSE MERCATOR (NZTM2000).
 - VERTICAL DATUM TO NEW ZEALAND VERTICAL DATUM 2016 (NZVD16).
 - BATHYMETRIC SURVEY DATA: DISCOVERY MARINE LIMITED (DML) CONDUCTED APRIL TO MAY 2021.
 - TOPOGRAPHIC DATA: BECA DRONE SURVEY JAN 2024.
 - STORM WATER AND WASTEWATER LOCATIONS EXTRACTED FROM WELLINGTON CITY COUNCIL GIS.
 - STRUCTURE AND TOP OF BANK AS SHOWN ARE INDICATIVE ONLY.

- LEGEND:**
- 5.0 — MAJOR CONTOURS (5.0m INTERVALS)
 - — MINOR CONTOURS (0.5m INTERVALS)
 - SW — STORMWATER AND MANHOLE
 - WW — WASTEWATER AND VALVE
 - C — WINDSOCK AND CABLE
 - ? — UNKNOWN
 - W — WATER
 - FO — FIBRE OPTIC
 - HV — HIGH VOLTAGE ELECTRICITY
 - — WAVE TRAP
 - — INDICATIVE STRUCTURE / BANK TOE
 - — SURVEY MARK F33P (BDJL NOT SHOWN)

ORIGINAL DRAWING
IN COLOUR

RESOURCE CONSENT
NOT FOR CONSTRUCTION

No.	Revision	By	Chk	Appd	Date
H	FOR RESOURCE CONSENT	CFP	JH	JH	28.07.25
G	FOR RESOURCE CONSENT	CFP	JH	JH	30.07.25
F	FOR RESOURCE CONSENT	TS	AS	JH	08.04.25
E	FOR RESOURCE CONSENT	AF	AS	JH	28.02.25

Original Scale (A1)	Design	AS & WP	08.04.25	Approved For Construction*
1:750	Drawn	TS	08.04.25	
1:1500	Design Verifier	JH	08.04.25	
	Design Check	JH	08.04.25	

* Refer to Revision 1 for Original Signature



Client: **WIAL SEA DEFENCE STRUCTURES RENEWAL**

Project: **EXISTING LAYOUT**

Discipline: **CIVIL ENGINEERING**

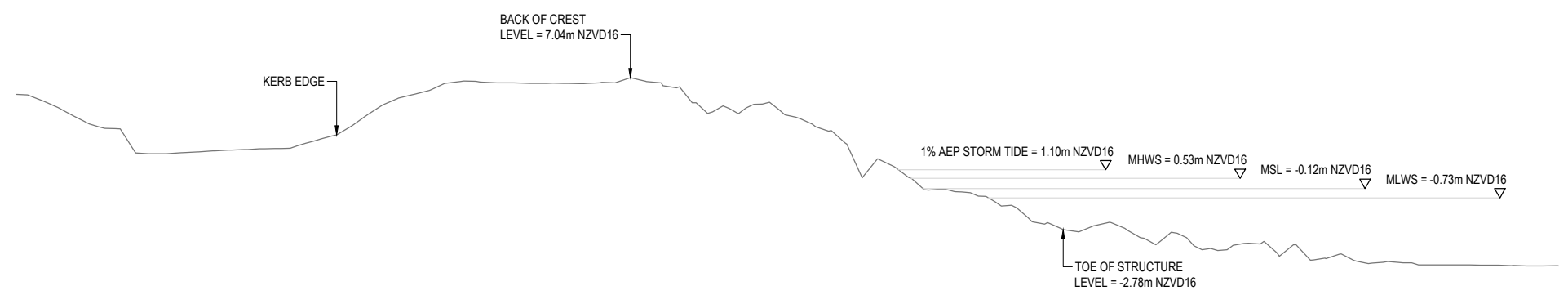
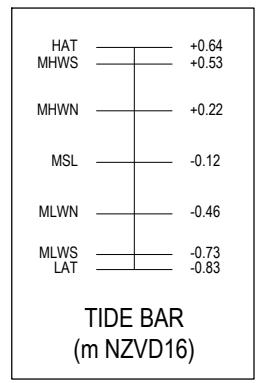
Drawing No: **3324338-CA-SK002**

Rev: **H**

- NOTES:**
- HORIZONTAL COORDINATE SYSTEM: NEW ZEALAND TRANSVERSE MERCATOR (NZTM2000).
 - VERTICAL DATUM TO NEW ZEALAND VERTICAL DATUM 2016 (NZVD16).
 - BATHYMETRIC SURVEY DATA:
 - DISCOVERY MARINE LIMITED (DML) CONDUCTED APRIL TO MAY 2021.
 - TOPOGRAPHIC SURVEY DATA:
 - BECA DRONE SURVEY JAN 2024.
 - CREST AND TOE MARKS ARE INDICATIVE ONLY.

LEGEND:

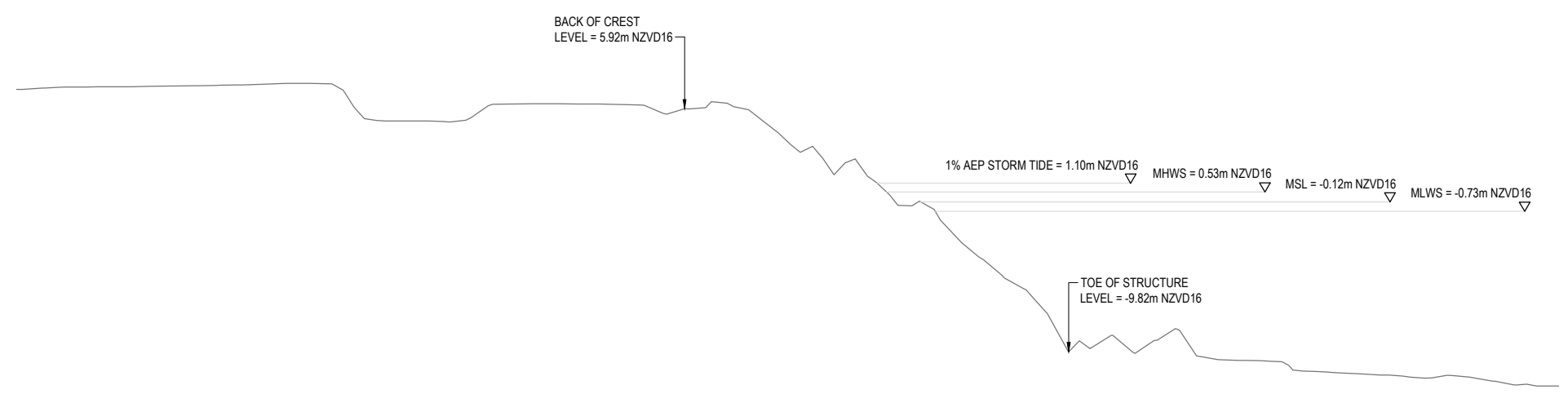
	EXISTING GROUND
	TIDE LEVELS



Datum -10.00

CHAINAGE	2	4	6	8	10	12	14	16	18	20	22	24	26	28	30	32	34	36	38	40	42	44	46	48	50	52	54	56	58	60	62	64	66	68	70	72	74	76	78	80	82	84	86	88	90	92	94	96	98
EXISTING SURFACE LEVEL	5.42	4.42	3.75	2.16	2.14	2.26	2.37	2.45	2.57	3.15	4.11	5.40	6.02	6.71	6.78	6.71	6.68	6.67	6.74	7.00	6.51	5.42	5.14	5.33	4.61	3.81	2.38	1.72	0.53	-0.16	-0.46	-1.25	-2.30	-2.80	-2.51	-2.79	-3.67	-3.44	-4.13	-3.67	-4.43	-4.76	-4.41	-4.94	-4.93	-5.07	-5.07	-5.09	-5.13
OLS LEVEL	8.27	8.56	8.86	9.15	9.45	9.74	10.03	10.33	10.62	10.91	11.21	11.50	11.79	12.09	12.38	12.67	12.95	13.23	13.51	13.79	14.07	14.35	14.63	14.91	15.19	15.47	15.75	16.02	16.30	16.58	16.87	17.15	17.44	17.73	18.02	18.30	18.59	18.88	19.16	19.44	19.72	20.00	20.28	20.56	20.84	21.12	21.40	21.68	21.96

1 SECTION AT SS-CH 60
SK002 SCALE 1:200



Datum -15.00

CHAINAGE	2	4	6	8	10	12	14	16	18	20	22	24	26	28	30	32	34	36	38	40	42	44	46	48	50	52	54	56	58	60	62	64	66	68	70	72	74	76	78	80	82	84	86	88	90	92	94	96	98
EXISTING SURFACE LEVEL	7.28	7.34	7.36	7.37	7.41	7.43	7.46	7.52	7.58	7.55	5.89	5.14	5.13	5.07	5.72	6.24	6.25	6.23	6.23	6.18	5.61	5.95	6.30	5.46	3.80	3.04	2.52	0.92	-0.36	-1.39	-3.35	-4.98	-6.42	-9.46	-9.38	-9.53	-9.05	-9.31	-10.34	-10.40	-10.46	-11.10	-11.21	-11.31	-11.42	-11.48	-11.45	-11.76	-11.94
OLS LEVEL	8.29	8.31	8.32	8.34	8.36	8.38	8.40	8.42	8.44	8.46	8.48	8.50	8.52	8.54	8.56	8.57	8.59	8.61	8.63	8.65	8.67	9.15	9.18	9.21	9.24	9.27	9.31	9.34	9.37	9.40	9.43	9.46	9.49	9.52	9.55	9.58	9.69	9.88	10.06	10.24	10.42	10.60	10.78	10.96	11.15	11.33	11.50	11.68	11.86

2 SECTION AT SS-CH 160
SK002 SCALE 1:200

ORIGINAL DRAWING
IN COLOUR
RESOURCE CONSENT
NOT FOR CONSTRUCTION

H	FOR RESOURCE CONSENT	CFP	JH	JH	14.08.25	Original Scale (A1)	Design	AS & WP	08.04.25	Approved For Construction*
G	FOR RESOURCE CONSENT	CFP	JH	JH	28.07.25	AS SHOWN	Drawn	TS	08.04.25	
F	FOR RESOURCE CONSENT	TS	AS	JH	08.04.25	Reduction	Day Verifier	JH	08.04.25	
E	FOR RESOURCE CONSENT	AF	AS	JH	28.02.25	Scale (A3)	Day Check	JH	08.04.25	Date
No.	Revision	By	Chk	Appd	Date	HALF SHOWN	* Refer to Revision 1 for Original Signature			



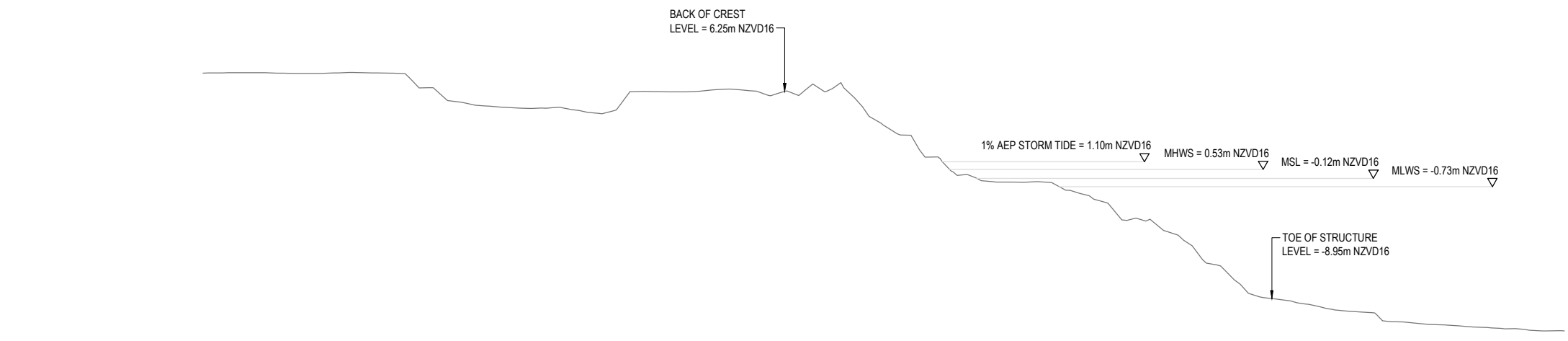
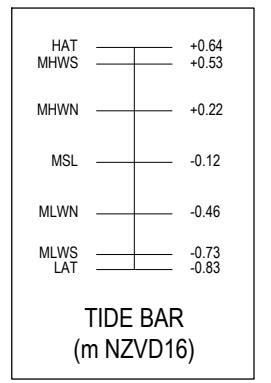
Client: **WIAL SEA DEFENCE STRUCTURES RENEWAL**

Title: **EXISTING SECTIONS SHEET 1 OF 3**

Discipline	CIVIL ENGINEERING	
Drawing No.	3324338-CA-SK003	Rev.
		H

- NOTES:**
- HORIZONTAL COORDINATE SYSTEM: NEW ZEALAND TRANSVERSE MERCATOR (NZTM2000).
 - VERTICAL DATUM TO NEW ZEALAND VERTICAL DATUM 2016 (NZVD16).
 - BATHYMETRIC SURVEY DATA:
 - DISCOVERY MARINE LIMITED (DML) CONDUCTED APRIL TO MAY 2021.
 - TOPOGRAPHIC SURVEY DATA:
 - BECA DRONE SURVEY JAN 2024.
 - CREST AND TOE MARKS ARE INDICATIVE ONLY.

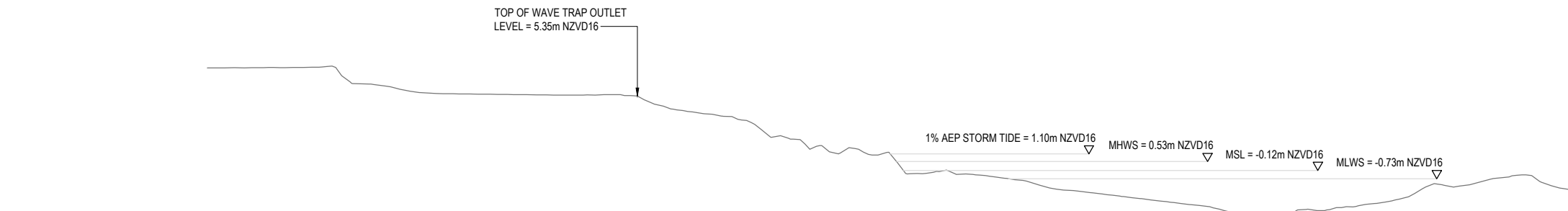
- LEGEND:**
- EXISTING GROUND
 - TIDE LEVELS



Datum -15.00

CHAINAGE	2	4	6	8	10	12	14	16	18	20	22	24	26	28	30	32	34	36	38	40	42	44	46	48	50	52	54	56	58	60	62	64	66	68	70	72	74	76	78	80	82	84	86	88	90	92	94	96	98
EXISTING SURFACE LEVEL	7.63	7.63	7.59	7.58	7.62	7.63	7.59	6.52	5.58	5.25	5.10	5.00	5.08	4.76	4.79	6.25	6.23	6.24	6.40	6.32	6.03	6.15	6.35	5.62	3.78	3.04	1.45	0.15	-0.37	-0.41	-0.41	-1.11	-1.81	-3.17	-3.48	-4.64	-6.39	-7.76	-8.88	-9.15	-9.54	-9.87	-9.98	-10.66	-10.83	-10.93	-11.05	-11.16	-11.30
OLS LEVEL	8.53	8.56	8.58	8.61	8.63	8.65	8.68	8.70	8.73	8.75	8.78	8.80	8.83	8.85	8.88	8.90	8.92	8.95	8.97	9.00	9.02	9.05	9.07	9.10	9.12	9.15	9.17	9.19	9.22	9.24	9.27	9.29	9.32	9.34	9.37	9.39	9.42	9.44	9.46	9.49	9.51	9.54	9.56	9.59	9.61	9.64	9.66	9.69	9.71

3 SECTION AT SS-CH 250
SK002 SCALE 1:200



Datum -10.00

CHAINAGE	2	4	6	8	10	12	14	16	18	20	22	24	26	28	30	32	34	36	38	40	42	44	46	48	50	52	54	56	58	60	62	64	66	68	70	72	74	76	78	80	82	84	86	88	90	92	94	96	98
EXISTING SURFACE LEVEL	7.42	7.43	7.44	7.46	6.74	6.22	5.88	5.58	5.51	5.47	5.46	5.43	5.42	5.42	5.45	5.12	4.43	4.12	3.86	3.38	2.41	1.73	1.18	1.35	1.22	-0.35	-0.16	-0.40	-0.62	-0.87	-1.44	-1.65	-1.88	-2.12	-2.36	-2.60	-2.90	-3.24	-3.40	-3.08	-3.06	-2.80	-2.52	-2.11	-1.14	-1.27	-0.84	-0.50	-0.99
OLS LEVEL	8.54	8.56	8.58	8.60	8.62	8.63	8.65	8.67	8.69	8.71	8.73	8.75	8.77	9.15	9.34	9.37	9.40	9.43	9.46	9.49	9.52	9.55	9.58	9.62	9.65	9.68	9.71	9.74	9.77	9.82	10.01	10.19	10.37	10.55	10.74	10.91	11.10	11.28	11.46	11.64	11.82	12.00	12.19	12.37	12.55	12.73	12.91	13.09	13.28

4 SECTION AT SS-CH 330
SK002 SCALE 1:200



H	FOR RESOURCE CONSENT	CFP	JH	JH	14.08.25	Original Scale (A1)	Design	AS & WP	08.04.25	Approved For Construction*
G	FOR RESOURCE CONSENT	CFP	JH	JH	28.07.25	AS SHOWN	Drawn	TS	08.04.25	
F	FOR RESOURCE CONSENT	TS	AS	JH	08.04.25	Reduction	Design Checker	JH	08.04.25	
E	FOR RESOURCE CONSENT	AF	AS	JH	28.02.25	Scale (A3)	Design Checker	JH	08.04.25	
No.	Revision	By	Chk	Appd	Date	HALF SHOWN	* Refer to Revision 1 for Original Signature			



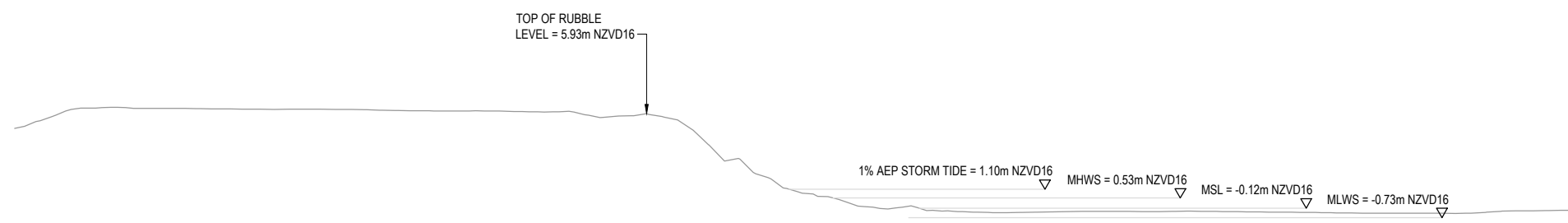
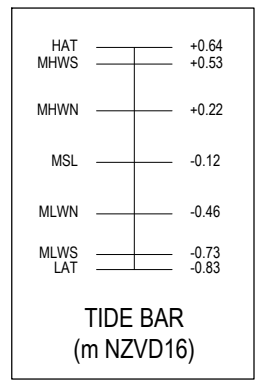
Client: WIAL SEA DEFENCE STRUCTURES RENEWAL

Title: EXISTING SECTIONS SHEET 2 OF 3

Discipline	CIVIL ENGINEERING
Drawing No.	3324338-CA-SK004
Rev.	H

- NOTES:**
- HORIZONTAL COORDINATE SYSTEM: NEW ZEALAND TRANSVERSE MERCATOR (NZTM2000).
 - VERTICAL DATUM TO NEW ZEALAND VERTICAL DATUM 2016 (NZVD16).
 - BATHYMETRIC SURVEY DATA:
 - DISCOVERY MARINE LIMITED (DML) CONDUCTED APRIL TO MAY 2021.
 - TOPOGRAPHIC SURVEY DATA:
 - BECA DRONE SURVEY JAN 2024.
 - CREST AND TOE MARKS ARE INDICATIVE ONLY.

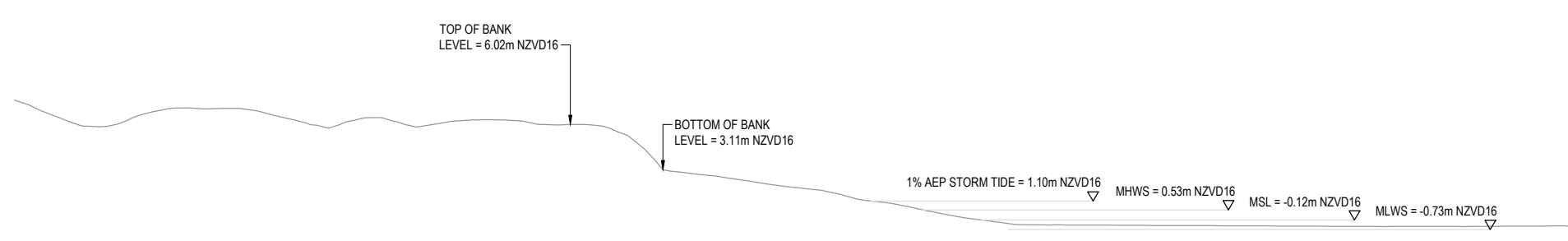
- LEGEND:**
- EXISTING GROUND
 - TIDE LEVELS



Datum -10.00

CHAINAGE	2	4	6	8	10	12	14	16	18	20	22	24	26	28	30	32	34	36	38	40	42	44	46	48	50	52	54	56	58	60	62	64	66	68	70	72	74	76	78	80	82	84	86	88	90	92	94	96	98
EXISTING SURFACE LEVEL	5.63	6.28	6.35	6.29	6.29	6.27	6.26	6.24	6.24	6.24	6.21	6.16	6.14	6.12	6.13	6.10	6.06	6.05	5.72	5.85	5.68	4.57	2.97	2.00	1.05	0.63	0.10	-0.17	-0.06	-0.30	-0.38	-0.40	-0.37	-0.33	-0.32	-0.33	-0.34	-0.36	-0.38	-0.41	-0.44	-0.44	-0.44	-0.44	-0.42	-0.31	-0.29		
OLS LEVEL	14.29	14.32	14.34	14.37	14.39	14.41	14.44	14.46	14.48	14.51	14.54	14.57	14.60	14.62	14.65	14.68	14.71	14.74	14.77	14.80	14.83	14.86	14.89	14.91	14.94	14.97	15.00	15.03	15.06	15.08	15.11	15.13	15.16	15.18	15.21	15.24	15.27	15.30	15.33	15.36	15.39	15.42	15.45	15.47	15.50	15.53	15.56	15.59	15.62

5 SECTION AT SS-CH 380
SK002 SCALE 1:200



Datum -10.00

CHAINAGE	2	4	6	8	10	12	14	16	18	20	22	24	26	28	30	32	34	36	38	40	42	44	46	48	50	52	54	56	58	60	62	64	66	68	70	72	74	76	78	80	82	84	86	88	90	92	94	96	98
EXISTING SURFACE LEVEL	6.80	6.04	5.91	6.61	7.06	7.04	7.06	6.80	6.32	5.84	6.33	6.35	5.88	6.22	6.33	6.28	6.03	6.03	5.87	4.88	3.06	2.81	2.57	2.26	1.99	1.77	1.29	1.00	0.62	0.23	-0.09	-0.36	-0.43	-0.44	-0.45	-0.46	-0.47	-0.48	-0.49	-0.50	-0.51	-0.52	-0.53	-0.54	-0.53	-0.53	-0.53	-0.52	-0.51
OLS LEVEL	28.11	27.99	27.87	27.75	27.63	27.51	27.39	27.27	27.15	27.03	26.91	26.79	26.67	26.55	26.43	26.31	26.19	26.07	25.95	25.83	25.71	25.59	25.47	25.35	25.23	25.11	24.99	24.87	24.75	24.63	24.51	24.39	24.27	24.15	24.03	23.91	23.79	23.67	23.55	23.43	23.31	23.19	23.07	22.95	22.83	22.71	22.59	22.47	22.35

6 SECTION AT SS-CH 460
SK002 SCALE 1:200

ORIGINAL DRAWING
IN COLOUR

RESOURCE CONSENT
NOT FOR CONSTRUCTION

H	FOR RESOURCE CONSENT	CFP	JH	JH	14.08.25
G	FOR RESOURCE CONSENT	CFP	JH	JH	28.07.25
F	FOR RESOURCE CONSENT	TS	AS	JH	08.04.25
E	FOR RESOURCE CONSENT	AF	AS	JH	28.02.25
No.	Revision	By	Chk	Appd	Date

Original Scale (A1)	Design	AS & WP	08.04.25	Approved For Construction*
AS SHOWN	Drawn	TS	08.04.25	
Reduced	Day Verifier	JH	08.04.25	
Scale (A3)	Day Check	JH	08.04.25	Date
HALF SHOWN	* Refer to Revision 1 for Original Signature			



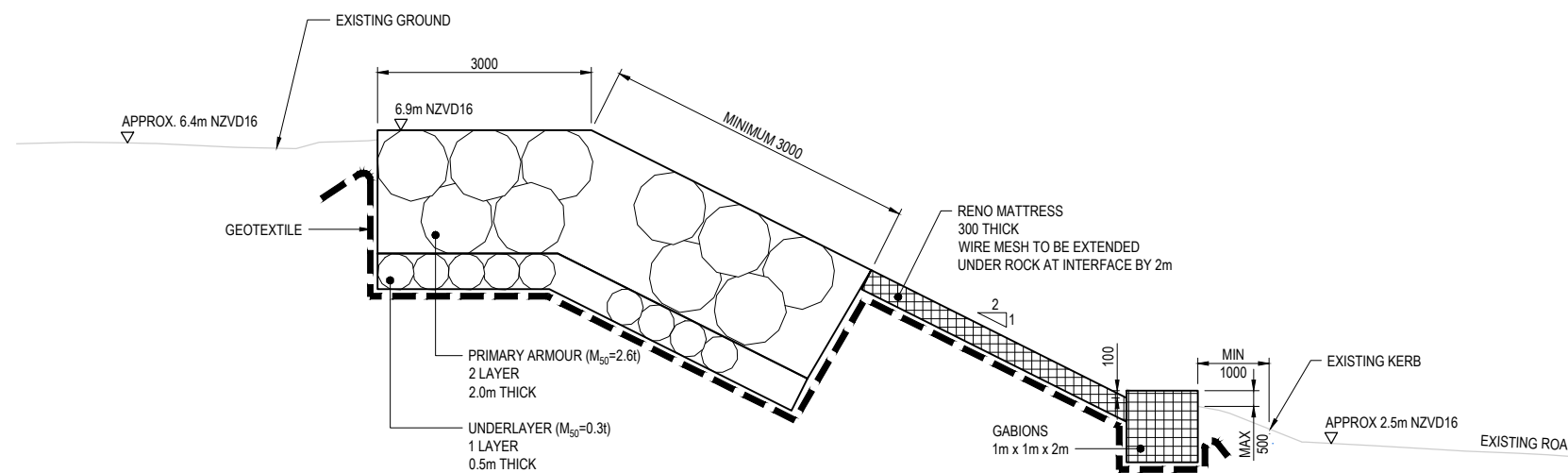
Client: **WIAL SEA DEFENCE STRUCTURES RENEWAL**

Title: **EXISTING SECTIONS SHEET 3 OF 3**

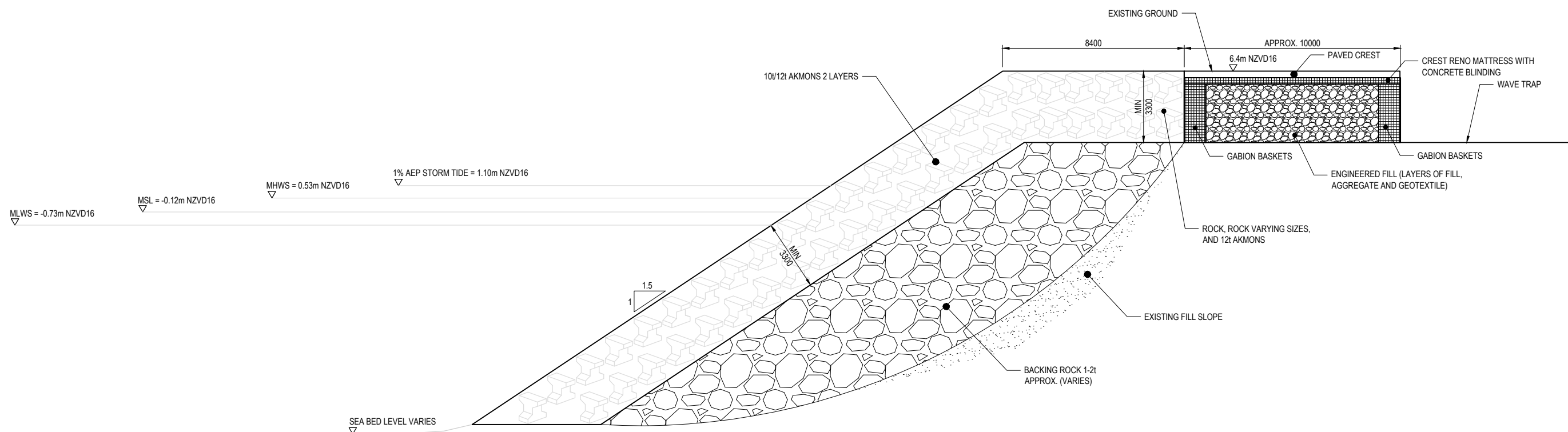
Discipline	CIVIL ENGINEERING	
Drawing No.	3324338-CA-SK005	Rev.
		H

NOTES:

1. VERTICAL DATUM TO NEW ZEALAND VERTICAL DATUM 2016 (NZVD16).
2. ALL DIMENSION ARE IN MILLIMETRES UNLESS STATED OTHERWISE.
3. REAR SLOPE PROTECTION DESIGNED BY BECA IN 2016. TYPICAL SECTION SHOWS DESIGN NOT AS BUILT STRUCTURE.
4. EXISTING AKMON ARMoured SEAWALL IS INDICATIVE ONLY. THE AS-BUILT DRAWINGS ARE NOT AVAILABLE AND INFORMATION IS LIMITED



TYPICAL DESIGN SECTION OF EXISTING REAR SLOPE PROTECTION
SCALE 1:50



INDICATIVE DESIGN SECTION OF EXISTING SOUTHERN SEAWALL (PRESENT DAY ACTUAL SEAWALL DIFFERS)
SCALE 1:100

RESOURCE CONSENT
NOT FOR CONSTRUCTION

G	FOR RESOURCE CONSENT	CFP	JH	JH	30.06.25
F	FOR RESOURCE CONSENT	TS	AS	JH	08.04.25
E	FOR RESOURCE CONSENT	AF	AS	JH	28.02.25
D	FOR RESOURCE CONSENT	TS	AS	JH	06.12.24
No.	Revision	By	Chk	Appd	Date

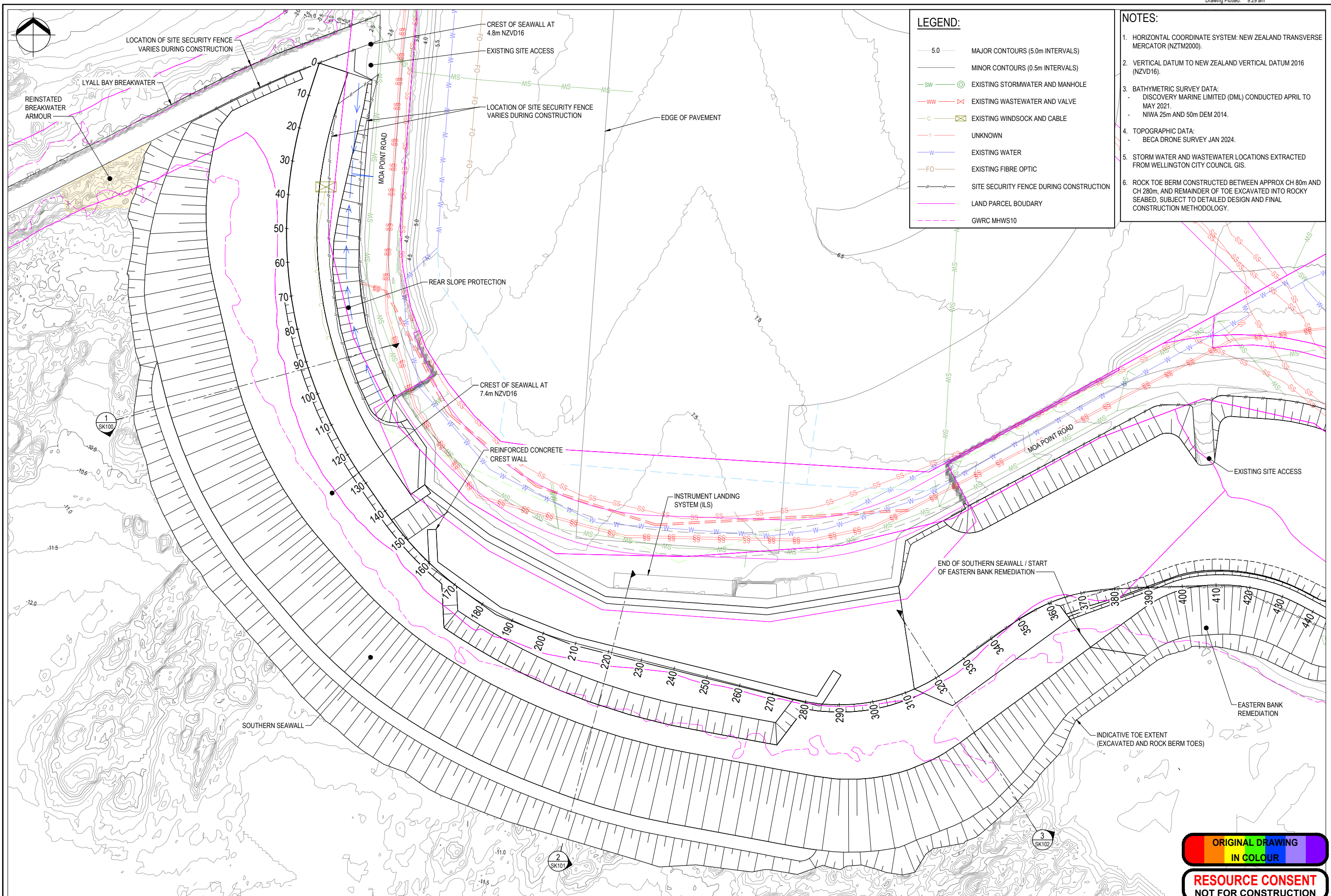
Original Scale (A1)	Design	AS & WP	08.04.25	Approved For Construction*
AS SHOWN	Drawn	TS	08.04.25	
Reduced Scale (A3)	Design Checker	JH	08.04.25	Date
HALF SHOWN	Design Check	JH	08.04.25	



Client: **WIAL SEA DEFENCE STRUCTURES RENEWAL**

Title: **EXISTING STRUCTURES TYPICAL SECTIONS**

Discipline	CIVIL ENGINEERING
Drawing No.	3324338-CA-SK006
Rev.	G



LEGEND:

- 5.0 MAJOR CONTOURS (5.0m INTERVALS)
- MINOR CONTOURS (0.5m INTERVALS)
- SW EXISTING STORMWATER AND MANHOLE
- WW EXISTING WASTEWATER AND VALVE
- C EXISTING WINDSOCK AND CABLE
- UNKNOWN
- W EXISTING WATER
- FO EXISTING FIBRE OPTIC
- SITE SECURITY FENCE DURING CONSTRUCTION
- LAND PARCEL BOUNDARY
- GWRC MHWS10

- NOTES:**
1. HORIZONTAL COORDINATE SYSTEM: NEW ZEALAND TRANSVERSE MERCATOR (NZTM2000).
 2. VERTICAL DATUM TO NEW ZEALAND VERTICAL DATUM 2016 (NZVD16).
 3. BATHYMETRIC SURVEY DATA:
 - DISCOVERY MARINE LIMITED (DML) CONDUCTED APRIL TO MAY 2021.
 - NIWA 25m AND 50m DEM 2014.
 4. TOPOGRAPHIC DATA:
 - BECA DRONE SURVEY JAN 2024.
 5. STORM WATER AND WASTEWATER LOCATIONS EXTRACTED FROM WELLINGTON CITY COUNCIL GIS.
 6. ROCK TOE BERM CONSTRUCTED BETWEEN APPROX CH 80m AND CH 280m, AND REMAINDER OF TOE EXCAVATED INTO ROCKY SEABED, SUBJECT TO DETAILED DESIGN AND FINAL CONSTRUCTION METHODOLOGY.

J	FOR DISCUSSION	CFP	JH	JH	15.09.25	Original Scale (A1)	Design	AS & WP	08.04.25	Approved For Construction*
I	FOR RESOURCE CONSENT	CFP	JH	JH	14.08.25	1:500	Drawn	TS	08.04.25	
H	FOR RESOURCE CONSENT	CFP	JH	JH	28.07.25	Reduced Scale (A3)	Day Verifier	JH	08.04.25	
G	FOR RESOURCE CONSENT	CFP	JH	JH	30.06.25	1:1000	Dtg Check	JH	08.04.25	Date
No.	Revision	By	Chk	Appd	Date					

Original Scale (A1)	Design	AS & WP	08.04.25	Approved For Construction*
1:500	Drawn	TS	08.04.25	
Reduced Scale (A3)	Day Verifier	JH	08.04.25	
1:1000	Dtg Check	JH	08.04.25	Date

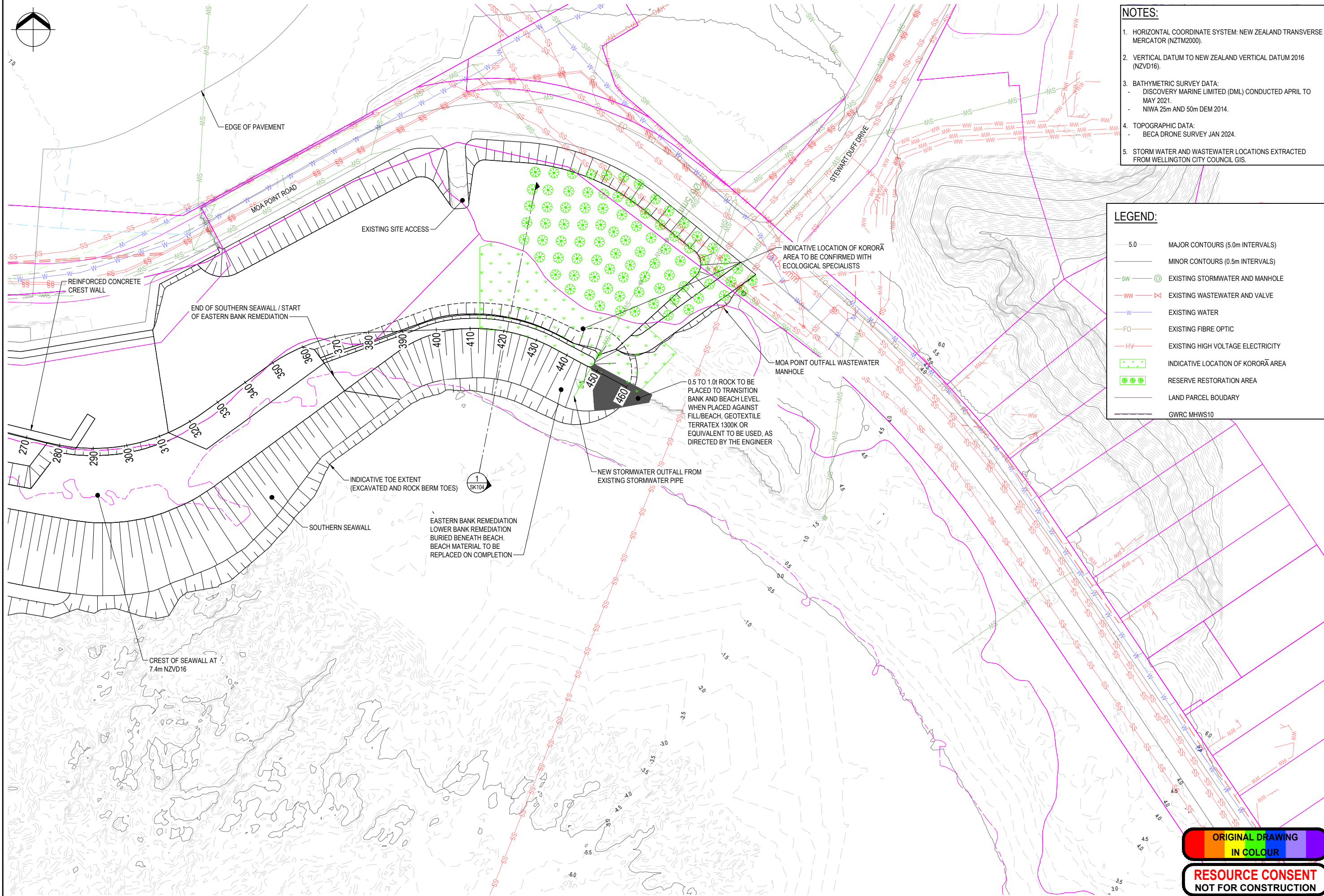


Client: **WIAL SEA DEFENCE STRUCTURES RENEWAL**

Title: **GENERAL ARRANGEMENT SOUTHERN SEAWALL**

Discipline: **CIVIL ENGINEERING**
 Drawing No: **3324338-CA-SK007**
 Rev: **J**





- NOTES:**
- HORIZONTAL COORDINATE SYSTEM: NEW ZEALAND TRANSVERSE MERCATOR (NZTM2000).
 - VERTICAL DATUM TO NEW ZEALAND VERTICAL DATUM 2016 (NZVD16).
 - BATHYMETRIC SURVEY DATA:
 - DISCOVERY MARINE LIMITED (DML) CONDUCTED APRIL TO MAY 2021.
 - NIWA 25m AND 50m DEM 2014.
 - TOPOGRAPHIC DATA:
 - BECA DRONE SURVEY JAN 2024.
 - STORM WATER AND WASTEWATER LOCATIONS EXTRACTED FROM WELLINGTON CITY COUNCIL GIS.

- LEGEND:**
- 5.0 MAJOR CONTOURS (5.0m INTERVALS)
 - MINOR CONTOURS (0.5m INTERVALS)
 - SW EXISTING STORMWATER AND MANHOLE
 - WW EXISTING WASTEWATER AND VALVE
 - W EXISTING WATER
 - FO EXISTING FIBRE OPTIC
 - HV EXISTING HIGH VOLTAGE ELECTRICITY
 - INDICATIVE LOCATION OF KORORĀ AREA
 - RESERVE RESTORATION AREA
 - LAND PARCEL BOUNDARY
 - GWRC MHWS10

L	FOR DISCUSSION	CFP	JH	JH	01.04.26
K	FOR DISCUSSION	CFP	JH	JH	15.09.25
J	FOR RESOURCE CONSENT	CFP	JH	JH	25.08.25
I	FOR RESOURCE CONSENT	CFP	JH	JH	14.08.25
No.	Revision	By	Chk	Appd	Date

Original Scale (A1)	Design	AS & WP	08.04.25	Approved For Construction*
1:500	Drawn	TS	08.04.25	
Reduced Scale (A3)	Day Verifier	JH	08.04.25	
1:1000	Day Check	JH	08.04.25	Date

* Refer to Revision 1 for Original Signature

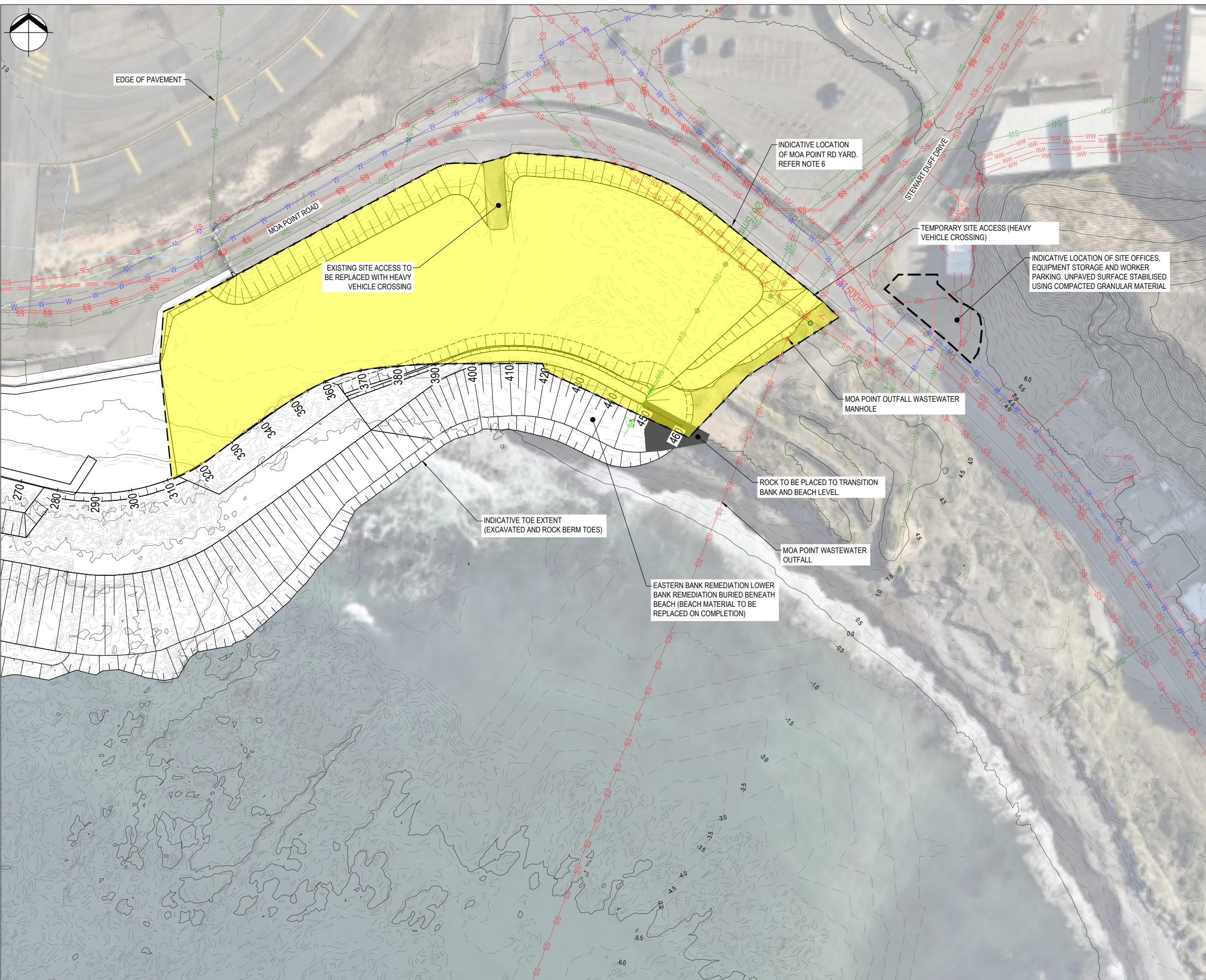


Client: **WIAL SEA DEFENCE STRUCTURES RENEWAL**

Title: **GENERAL ARRANGEMENT EASTERN BANK REMEDIATION**

Discipline: **CIVIL ENGINEERING**
 Drawing No: **3324338-CA-SK008**
 Rev: **L**





- NOTES:**
- HORIZONTAL COORDINATE SYSTEM: NEW ZEALAND TRANSVERSE MERCATOR (NZTM2000).
 - VERTICAL DATUM TO NEW ZEALAND VERTICAL DATUM 2016 (NZVD16).
 - BATHYMETRIC SURVEY DATA:
 - DISCOVERY MARINE LIMITED (DML) CONDUCTED APRIL TO MAY 2021.
 - NIWA 25m AND 50m DEM 2014.
 - TOPOGRAPHIC DATA:
 - BECA DRONE SURVEY JAN 2024.
 - STORM WATER AND WASTEWATER LOCATIONS EXTRACTED FROM WELLINGTON CITY COUNCIL GIS.
 - LARGE PLANT TYPICALLY PARKED EAST OF EXISTING SITE ACCESS. OTHER PLANT AND STOCKPILED MATERIALS TYPICALLY LOCATED WEST OF EXISTING SITE ACCESS. PLANT AND STOCKPILE LOCATIONS WILL VARY DURING CONSTRUCTION AND MAY OCCUPY ANY PART OF SITE BETWEEN SECURITY FENCE AND SEAWALL.

- LEGEND:**
- 5.0 MAJOR CONTOURS (5.0m INTERVALS)
 - MINOR CONTOURS (0.5m INTERVALS)
 - SW EXISTING STORMWATER AND MANHOLE
 - WW EXISTING WASTEWATER, VALVE AND MANHOLE
 - W EXISTING WATER
 - FO EXISTING FIBRE OPTIC
 - HV EXISTING HIGH VOLTAGE ELECTRICITY
 - YARD, SITE OFFICES, ETC BOUNDARY
 - SITE SECURITY FENCE DURING CONSTRUCTION
 - AREA RECONTOURED TO PROVIDE EVEN SURFACE, GENERALLY GRADING FROM 7.4m NZVD16 AT WEST END TO EXISTING GROUND LEVEL AT EAST END.

M	FOR RESOURCE CONSENT	CFP	JH	JH	01.04.26	Original Scale (A1)	Design	AS & WP	08.04.25	Approved For Construction*
L	FOR RESOURCE CONSENT	CFP	JH	JH	29.08.25	1:500	Drawn	TS	08.04.25	
K	FOR RESOURCE CONSENT	CFP	JH	JH	25.08.25	Reduced Scale (A3)	Design Verifier	JH	08.04.25	
J	FOR RESOURCE CONSENT	CFP	JH	JH	28.07.25	1:1000	Design Check	JH	08.04.25	Date
No.	Revision	By	Chk	Appd	Date		* Refer to Revision 1 for Original Signature			



Client: **WIAL SEA DEFENCE STRUCTURES RENEWAL**

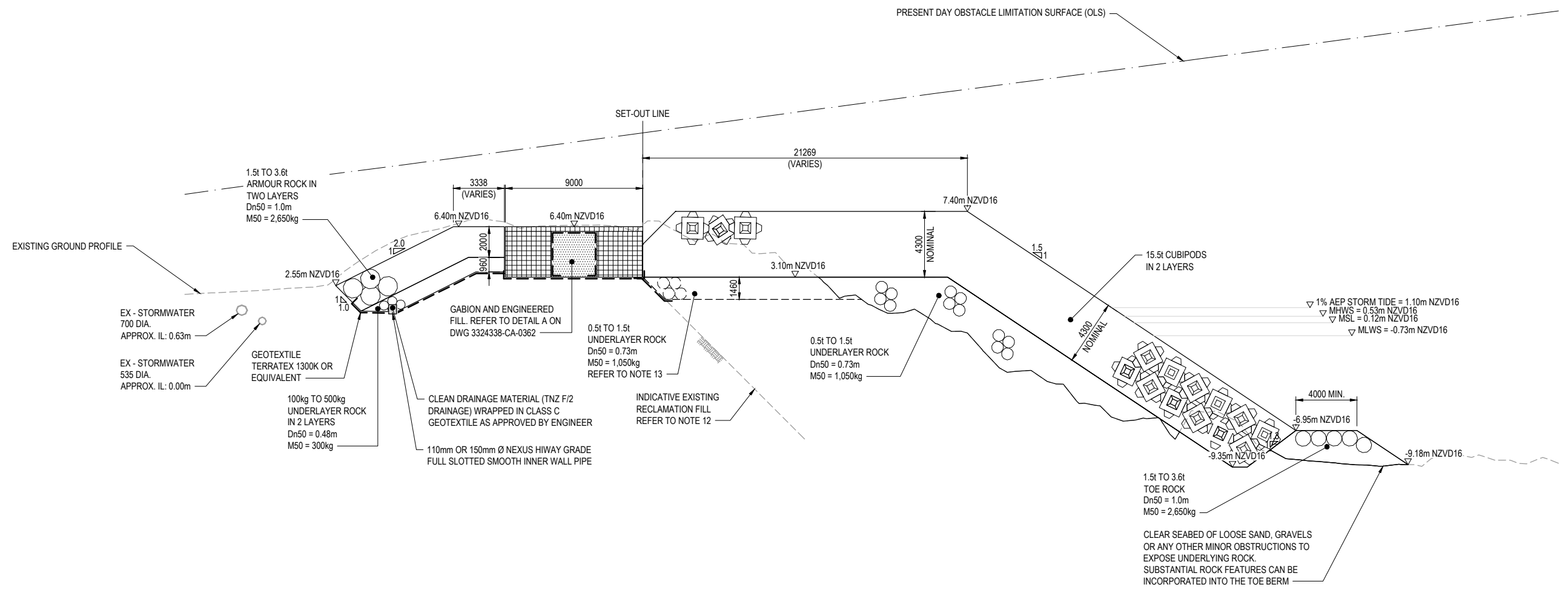
Title: **GENERAL ARRANGEMENT MOA POINT RD YARD**

Discipline: **CIVIL ENGINEERING**
 Drawing No: **3324338-CA-SK009** Rev: **M**



NOTES:

1. VERTICAL DATUM TO NEW ZEALAND VERTICAL DATUM 2016 (NZVD16).
2. ALL DIMENSIONS ARE IN MILLIMETRES UNLESS STATED OTHERWISE.
3. BATHYMETRIC SURVEY DATA:
- DISCOVERY MARINE LIMITED (DML) CONDUCTED APRIL TO MAY 2021.
4. ANY EXCAVATED UNSUITABLE MATERIAL FROM THE BANK TO BE REMOVED OFF SITE AND DISPOSED OF APPROPRIATELY.



1 SECTION AT CH90 - REAR SLOPE PROTECTION AND SEAWALL
SK007 SCALE 1:150

I	FOR RESOURCE CONSENT	CFP	JH	JH	10.02.26	Original Scale (A1)	Design	AS & WP	08.04.25	Approved For Construction*
H	FOR RESOURCE CONSENT	CFP	JH	JH	28.07.25	AS SHOWN	Drawn	TS	08.04.25	
G	FOR RESOURCE CONSENT	CFP	JH	JH	30.06.25	Reduced Scale (A3)	Design Checker	JH	08.04.25	
F	FOR RESOURCE CONSENT	TS	AS	JH	08.04.25	HALF SHOWN	Design Checker	JH	08.04.25	Date
No.	Revision	By	Chk	Appd	Date		* Refer to Revision 1 for Original Signature			



Client: **WIAL SEA DEFENCE STRUCTURES RENEWAL**

Project: **SOUTHERN SEAWALL SECTIONS SHEET 1 OF 3**

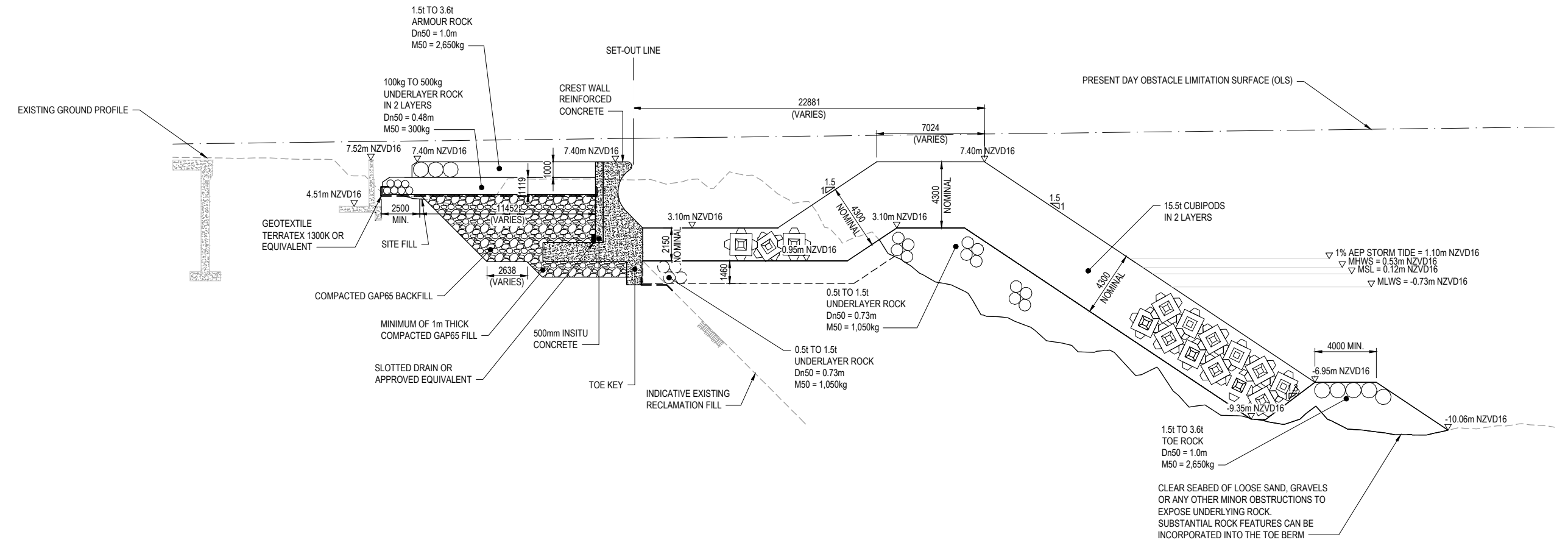
Discipline: **CIVIL ENGINEERING**
Drawing No: **3324338-CA-SK100** Rev: **1**

RESOURCE CONSENT NOT FOR CONSTRUCTION

HAT	+0.64
MHWS	+0.53
MHWN	+0.22
MSL	-0.12
MLWN	-0.46
MLWS	-0.73
LAT	-0.83

TIDE BAR
(m NZVD16)

- NOTES:**
- VERTICAL DATUM TO NEW ZEALAND VERTICAL DATUM 2016 (NZVD16).
 - ALL DIMENSIONS ARE IN MILLIMETRES UNLESS STATED OTHERWISE.
 - BATHYMETRIC SURVEY DATA:
- DISCOVERY MARINE LIMITED (DML) CONDUCTED APRIL TO MAY 2021.
 - UNDERLAYER ROCK WILL BE USED TO FORM AN EVEN REGULAR 1V:1.5H SLOPE. THE UNDERLAYER SURFACE MAY HAVE EXPOSED AKMON SURFACES AS WELL AS ROCK.
 - SATO CUBIPOD PLACEMENT GRID AND EXISTING PROFILE TO CONFIRM CREST DIMENSIONS.
 - DEPTH OF SAND AND GRAVEL ABOVE ROCK LEVEL VARIES FROM 0.0m TO APPROXIMATELY 0.5m TO 1m.



2 SECTION AT CH220 - SOUTHERN SEAWALL
SK007 SCALE 1:150

I	FOR RESOURCE CONSENT	CFP	JH	JH	10.02.26
H	FOR RESOURCE CONSENT	CFP	JH	JH	28.07.25
G	FOR RESOURCE CONSENT	CFP	JH	JH	30.06.25
F	FOR RESOURCE CONSENT	TS	AS	JH	08.04.25
No.	Revision	By	Chk	Appd	Date

Original Scale (A1)	Design	AS & WP	08.04.25	Approved For Construction*
AS SHOWN	Drawn	TS	08.04.25	
Reduced Scale (A3)	Design Checker	JH	08.04.25	
HALF SHOWN	Design Check	JH	08.04.25	Date

* Refer to Revision 1 for Original Signature



Client: **WIAL SEA DEFENCE STRUCTURES RENEWAL**

Project: **SOUTHERN SEAWALL SECTIONS SHEET 2 OF 3**

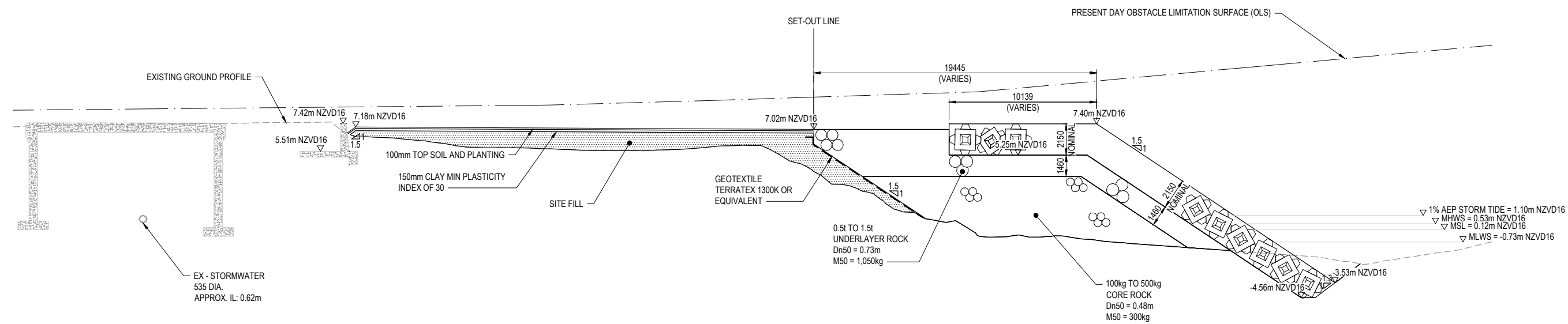
Discipline: **CIVIL ENGINEERING**
Drawing No.: **3324338-CA-SK101**
Rev: **I**

RESOURCE CONSENT
NOT FOR CONSTRUCTION

HAT	+	0.64
MHWS	+	0.53
MSL	-	0.12
MLWN	-	0.46
MLWS	-	0.73
LAT	-	0.83

TIDE BAR
(m NZVD16)

- NOTES:**
- VERTICAL DATUM TO NEW ZEALAND VERTICAL DATUM 2016 (NZVD16).
 - ALL DIMENSIONS ARE IN MILLIMETRES UNLESS STATED OTHERWISE.
 - BATHYMETRIC SURVEY DATA:
- DISCOVERY MARINE LIMITED (DML) CONDUCTED APRIL TO MAY 2021.
 - UNDERLAYER ROCK WILL BE USED TO FORM AN EVEN REGULAR 1V:1.5H SLOPE. THE UNDERLAYER SURFACE MAY HAVE EXPOSED AKMON SURFACES AS WELL AS ROCK.
 - SATO CUBIPOD PLACEMENT GRID AND EXISTING PROFILE TO CONFIRM CREST DIMENSIONS.



3 SECTION AT CH330 - SOUTHERN SEAWALL - EAST END
SK007 SCALE 1:150

K	FOR RESOURCE CONSENT	CFP	JH	JH	10.02.26	Original Scale (A1)	Design	AS & WP	08.04.25	Approved For Construction*
J	FOR RESOURCE CONSENT	CFP	JH	JH	25.08.25	AS SHOWN	Drawn	TS	08.04.25	
I	FOR RESOURCE CONSENT	CFP	JH	JH	28.07.25	Reduction Scale (A3)	Design Verifier	JH	08.04.25	
H	FOR RESOURCE CONSENT	CFP	JH	JH	30.06.25	HALF SHOWN	Dwg Check	JH	08.04.25	Date
No.	Revision	By	Chk	Appd	Date	* Refer to Revision 1 for Original Signature				



Client: **WIAL SEA DEFENCE STRUCTURES RENEWAL**

Project: **SOUTHERN SEAWALL SECTIONS SHEET 3 OF 3**

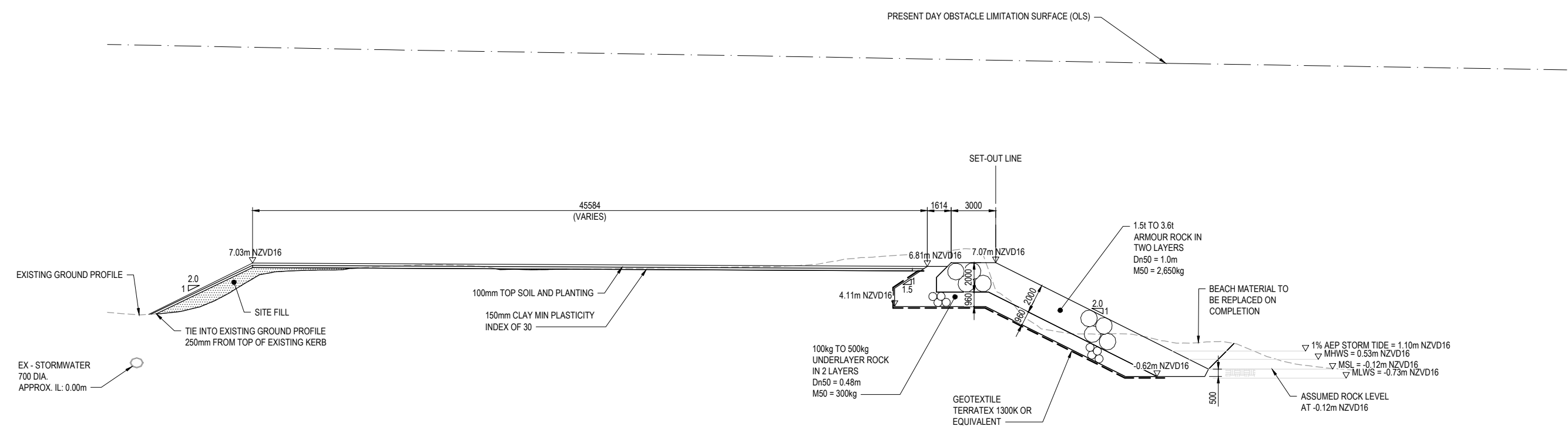
Discipline: **CIVIL ENGINEERING**
Drawing No: **3324338-CA-SK102** Rev: **K**

RESOURCE CONSENT NOT FOR CONSTRUCTION

HAT	+0.64
MHWS	+0.53
MHWN	+0.22
MSL	-0.12
MLWN	-0.46
MLWS	-0.73
LAT	-0.83

TIDE BAR
(m NZVD16)

- NOTES:**
- VERTICAL DATUM TO NEW ZEALAND VERTICAL DATUM 2016 (NZVD16).
 - ALL DIMENSIONS ARE IN MILLIMETRES UNLESS STATED OTHERWISE.
 - BATHYMETRIC SURVEY DATA:
- DISCOVERY MARINE LIMITED (DML) CONDUCTED APRIL TO MAY 2021.
 - TOE TO BE A MIN. 1650 BELOW EXISTING BEACH LEVEL IF ROCK SEABED IS ENCOUNTERED KEY TOE IN BY A MIN 0.5Dn50.
 - EXISTING BANK AND HINTERLAND TO BE LANDSCAPED FOR TEMPORARY LAY DOWN AREA AND PENGUIN HABITAT IN THE EXTENTS SHOWN ON SK009.



1 SECTION AT CH 420 - EASTERN BANK REMEDIATION
SK-008 SCALE 1:150

RESOURCE CONSENT
NOT FOR CONSTRUCTION

K	FOR RESOURCE CONSENT	CFP	JH	JH	10.02.26	Original Scale (A1)	Design	AS & WP	08.04.25	Approved For Construction*
J	FOR RESOURCE CONSENT	CFP	JH	JH	25.08.25	AS SHOWN	Drawn	TS	08.04.25	
I	FOR RESOURCE CONSENT	CFP	JH	JH	28.07.25	Reduction Scale (A3)	Design Verifier	JH	08.04.25	
H	FOR RESOURCE CONSENT	CFP	JH	JH	30.06.25	HALF SHOWN	Design Check	JH	08.04.25	Date
No.	Revision	By	Chk	Appd	Date		* Refer to Revision 1 for Original Signature			



Client: **WIAL SEA DEFENCE STRUCTURES RENEWAL**

Title: **EASTERN BANK REHABILITATION SECTION**

Discipline	CIVIL ENGINEERING
Drawing No.	3324338-CA-SK104
Rev.	K



- NOTES:**
- HORIZONTAL COORDINATE SYSTEM: NEW ZEALAND TRANSVERSE MERCATOR (NZTM2000).
 - VERTICAL DATUM TO NEW ZEALAND VERTICAL DATUM 2016 (NZVD16).
 - BATHYMETRIC SURVEY DATA:
 - DISCOVERY MARINE LIMITED (DML) CONDUCTED APRIL TO MAY 2021.
 - TOPOGRAPHIC DATA:
 - BECA DRONE SURVEY JAN 2024 AND WCC LIDAR 2024.
 - TOE, MHWS LINE AND STRUCTURES AS SHOWN ARE INDICATIVE ONLY. EXISTING AND PROPOSED MHWS LINE ON EASTERN BANK REHABILITATION VARY, DEPENDING ON BEACH LEVELS.

LEGEND:

5.0	MAJOR CONTOURS (5.0m INTERVALS)
	MINOR CONTOURS (0.5m INTERVALS)
---	WAVE TRAP
---	INDICATIVE STRUCTURE / BANK TOE

PARAMETER	QUANTITY
INCREASE IN PROPOSED SEAWALL WIDTH (AT EXISTING FORMAL SEAWALL)	-20-30m
INCREASE IN PROPOSED SEAWALL FOOTPRINT	UP TO 12,000m ²

ORIGINAL DRAWING
IN COLOUR
RESOURCE CONSENT
NOT FOR CONSTRUCTION

No.	Revision	By	Chk	Appd	Date
G	FOR RESOURCE CONSENT	CFP	JH	JH	10.02.26
F	FOR RESOURCE CONSENT	CFP	JH	JH	28.07.25
E	FOR RESOURCE CONSENT	CFP	JH	JH	30.06.25
D	FOR RESOURCE CONSENT	MJVR	AS	JH	10.06.25

Original Scale (A1)	Design	AS & WP	08.04.25	Approved For Construction*
1:750	Drawn	TS	08.04.25	
	Design Verifier	JH	08.04.25	
Reduced Scale (A3)	Drwg Check	JH	08.04.25	Date
1:1500	* Refer to Revision 1 for Original Signature			



Client: **WIAL SEA DEFENCE STRUCTURES RENEWAL**

Title: **EXISTING AND PROPOSED SEAWALL TOE AND MHWS LOCATIONS**

Discipline	CIVIL ENGINEERING
Drawing No.	3324338-CA-SK105
Rev.	G



- NOTES:**
- HORIZONTAL COORDINATE SYSTEM: NEW ZEALAND TRANSVERSE MERCATOR (NZTM2000).
 - VERTICAL DATUM TO NEW ZEALAND VERTICAL DATUM 2016 (NZVD16).
 - BATHYMETRIC SURVEY DATA:
 - DISCOVERY MARINE LIMITED (DML) CONDUCTED APRIL TO MAY 2021.
 - TOPOGRAPHIC DATA:
 - BECA DRONE SURVEY JAN 2024 AND WCC LIDAR 2024.
 - TOE, MHS LINE AND STRUCTURES AS SHOWN ARE INDICATIVE ONLY. EXISTING AND PROPOSED MHS LINE ON EASTERN BANK REHABILITATION VARY, DEPENDING ON BEACH LEVELS.

- LEGEND:**
- MAJOR CONTOURS (5.0m INTERVALS)
 - MINOR CONTOURS (0.5m INTERVALS)
 - CADASTRAL BOUNDARY
 - GENERAL INDUSTRIAL ZONE
 - MEDIUM DENSITY RESIDENTIAL ZONE
 - NATURAL OPEN SPACE ZONE
 - SPECIAL PURPOSE ZONE (AIRPORT)



ORIGINAL DRAWING
IN COLOUR
RESOURCE CONSENT
NOT FOR CONSTRUCTION

D	FOR RESOURCE CONSENT	CFP	JH	JH	10.02.26
C	FOR RESOURCE CONSENT	CFP	JH	JH	28.07.25
B	FOR RESOURCE CONSENT	CFP	JH	JH	30.06.25
A	FOR RESOURCE CONSENT	MJVR	JH	JH	10.06.25
No.	Revision	By	Chk	Appd	Date

Original Scale (A1)	Design	MJVR	10.06.25	Approved For Construction*
1:1500	Drawn	MJVR	10.06.25	
Reduced Scale (A3)	Design Checker	JH	10.06.25	Date
1:3000	Design Checker	JH	10.06.25	

* Refer to Revision 1 for Original Signature



Client: **WIAL SEA DEFENCE STRUCTURES RENEWAL**

Project: **LAND USE ZONES PLAN**

Discipline	CIVIL ENGINEERING
Drawing No.	3324338-CA-SK106
Rev.	D



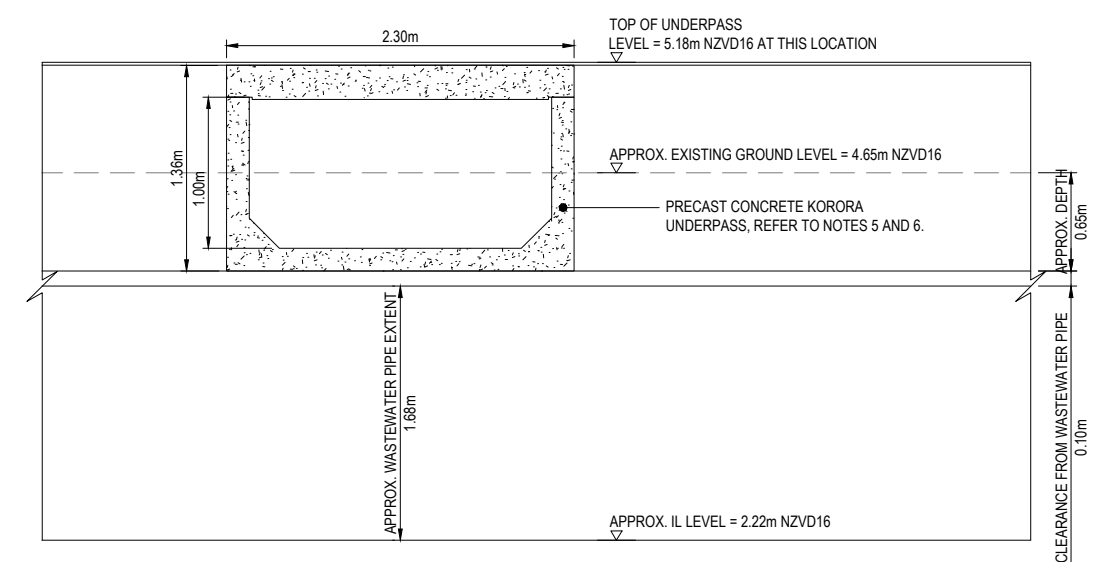
PLAN OF STAGE 1 KORORA HABITAT LOCATION
SCALE 1:250

NOTES:

- ALL DIMENSIONS ARE IN METRES UNLESS OTHERWISE STATED.
- HORIZONTAL COORDINATE SYSTEM: NEW ZEALAND TRANSVERSE MERCATOR (NZTM2000).
- VERTICAL DATUM TO NEW ZEALAND VERTICAL DATUM 2016 (NZVD16).
- ALL EXISTING SERVICES SHALL BE LOCATED AND MARKED PRIOR TO START OF CONSTRUCTION ON SITE. ALL EXISTING SERVICES SHALL BE PROTECTED OR RELOCATED TO AVOID DAMAGE DURING AND AFTER CONSTRUCTION.
- THE KORORA UNDERPASS SHALL BE DESIGNED TO MEET THE KORORA SPECIALIST'S REQUIREMENTS. THE UNDERPASS SHALL BE DESIGNED TO COMPLY WITH THE NZTA BRIDGE MANUAL, NZS 3101:2006 PART 1, AND THE NZ BUILDING CODE. THE UNDERPASS SHALL WITHSTAND HN-HO-72 TRAFFIC LOADING WITH 0mm COVER (20mm AC SURFACING AND TACK COAT LAID DIRECT ON UNDERPASS). THE UNDERPASS DESIGN LIFE SHALL BE MIN. 50 YEARS. CONCRETE SHALL BE MARINE GRADE CONCRETE MIN. 40 MPa. SURFACE FINISHES SHALL COMPLY WITH NZS 3114:1986 F3 UNLESS OTHERWISE REQUIRED BY THE KORORA SPECIALIST. PRECAST MANUFACTURE SHALL COMPLY WITH NZS 3109:1997.
- UNDERPASS INSTALLATION INCLUDING BEDDING AND BACKFILL SHALL BE IN ACCORDANCE WITH THE UNDERPASS DESIGNER'S SPECIFICATIONS.

LEGEND:

- LAND PARCEL BOUNDARY
- - - GWRC MHWS10
- SS- EXISTING WASTEWATER
- W- EXISTING WATER
- FENCING
- - - ROAD GRADIENT
- - - SECURITY FENCING
- - - LANDWARD BOUNDARY OF KORORA AREA



1 CROSS SECTION THROUGH UNDERPASS
SCALE 1:25

ORIGINAL DRAWING
IN COLOUR

FOR PRICING
NOT FOR CONSTRUCTION

E	FOR DISCUSSION	CFP	JH	JH	15.09.25	Original Scale (A1)	Design	WP/AS	08.07.24	Approved For Construction*
D	FOR RESOURCE CONSENT	CFP	JH	JH	14.08.25	AS SHOWN	Drawn	WP	08.07.24	
C	FOR RESOURCE CONSENT	CFP	JH	JH	28.07.25	Reduced Scale (A3)	Design Verifier	JH	08.07.24	
B	FOR RESOURCE CONSENT	CFP	JH	JH	11.07.25	HALF SHOWN	Design Check	WN	08.07.24	Date
No.	Revision	By	Chk	Appd	Date	* Refer to Revision 1 for Original Signature				

Original Scale (A1)	Design	WP/AS	08.07.24	Approved For Construction*
AS SHOWN	Drawn	WP	08.07.24	
Reduced Scale (A3)	Design Verifier	JH	08.07.24	
HALF SHOWN	Design Check	WN	08.07.24	Date



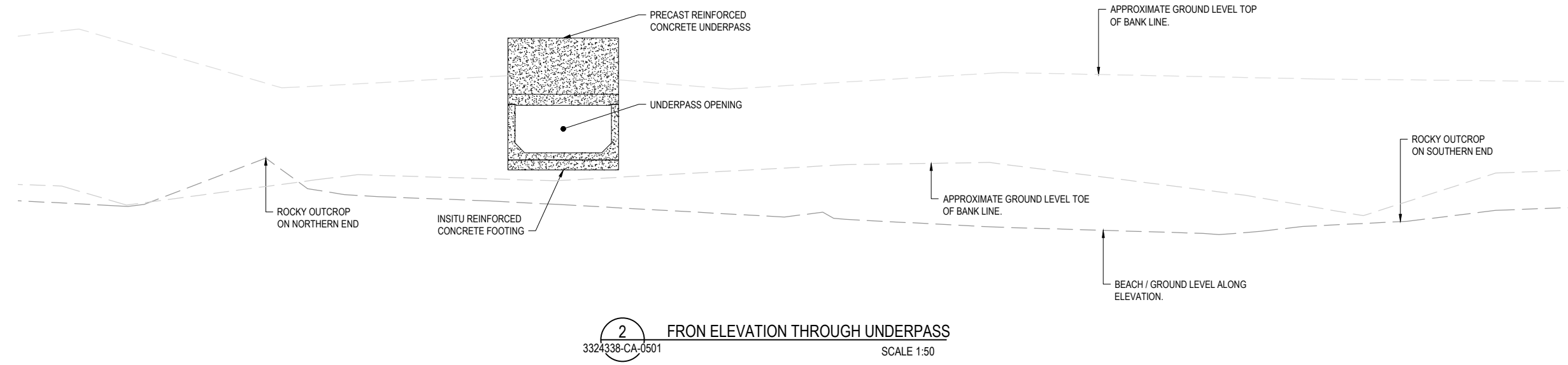
Client: **WIAL SEA DEFENCE STRUCTURES RENEWAL**

Project: **STAGE 1 KORORA HABITAT GENERAL ARRANGEMENT & UNDERPASS SECTION**

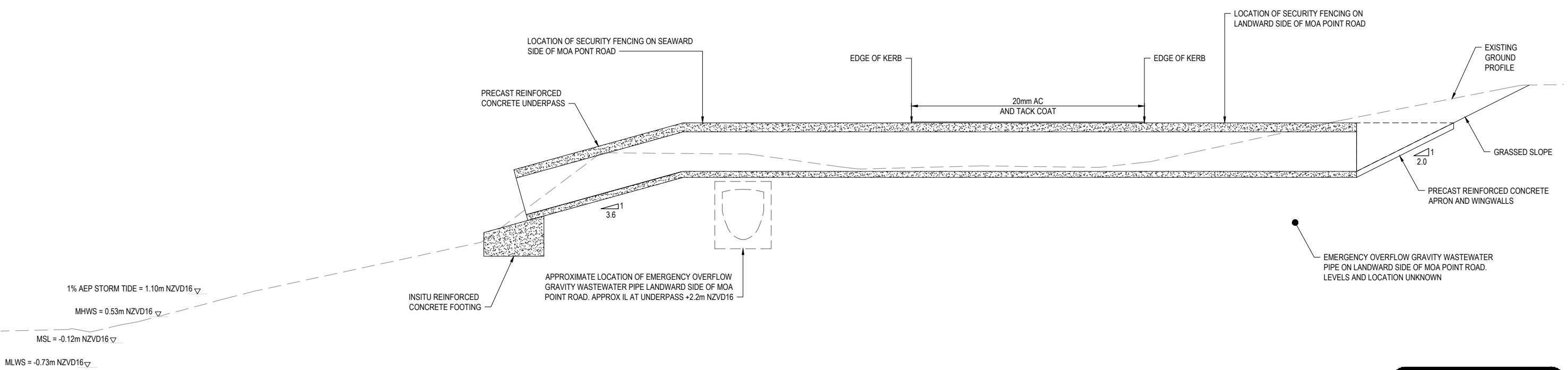
Discipline: **CIVIL ENGINEERING**
Drawing No: **3324338-CA-SK120**
Rev: **E**

NOTES:

1. ALL DIMENSIONS ARE IN METRES UNLESS OTHERWISE STATED.
2. HORIZONTAL COORDINATE SYSTEM: NEW ZEALAND TRANSVERSE MERCATOR (NZTM2000).
3. VERTICAL DATUM TO NEW ZEALAND VERTICAL DATUM 2016 (NZVD16).
4. ALL EXISTING SERVICES SHALL BE LOCATED AND MARKED PRIOR TO START OF CONSTRUCTION ON SITE. ALL EXISTING SERVICES SHALL BE PROTECTED OR RELOCATED TO AVOID DAMAGE DURING AND AFTER CONSTRUCTION.
5. THE KORORA UNDERPASS SHALL BE DESIGNED TO MEET THE KORORA SPECIALIST'S REQUIREMENTS. THE UNDERPASS SHALL BE DESIGNED TO COMPLY WITH THE NZTA BRIDGE MANUAL, NZS 3101:2006 PART 1, AND THE NZ BUILDING CODE. THE UNDERPASS SHALL WITHSTAND HN-HO-72 TRAFFIC LOADING WITH 0mm COVER (PAVEMENT LAID DIRECT ON UNDERPASS). THE UNDERPASS DESIGN LIFE SHALL BE MIN. 50 YEARS. CONCRETE SHALL BE MARINE GRADE CONCRETE MIN. 40 MPa. SURFACE FINISHES SHALL COMPLY WITH NZS 3114:1986 F3 UNLESS OTHERWISE REQUIRED BY THE KORORA SPECIALIST. PRECAST MANUFACTURE SHALL COMPLY WITH NZS 3109:1997.
6. UNDERPASS INSTALLATION INCLUDING BEDDING AND BACKFILL SHALL BE IN ACCORDANCE WITH THE UNDERPASS DESIGNER'S SPECIFICATIONS.



2 FRONT ELEVATION THROUGH UNDERPASS
3324338-CA-0501 SCALE 1:50



3 LONG SECTION THROUGH UNDERPASS
3324338-CA-0501 SCALE 1:50

**ORIGINAL DRAWING
IN COLOUR**

**FOR PRICING
NOT FOR CONSTRUCTION**

D	FOR DISCUSSION	CFP	JH	JH	15.09.25
C	FOR RESOURCE CONSENT	CFP	JH	JH	28.07.25
B	FOR RESOURCE CONSENT	CFP	JH	JH	11.07.25
A	FOR PRICING (2025)	WP	AS	JH	08.07.24
No.	Revision	By	Chk	Appd	Date

Original Scale (A1)	Design	WP/AS	08.07.24	Approved For Construction*
AS SHOWN	Drawn	WP	08.07.24	
Reduced Scale (A3)	Design Verifier	JH	08.07.24	
HALF SHOWN	Dwg Check	WN	08.07.24	Date

* Refer to Revision 1 for Original Signature



Client: **WIAL SEA DEFENCE STRUCTURES RENEWAL**

Project: **STAGE 1 KORORA HABITAT UNDERPASS LONG SECTION AND ELEVATION**

Discipline: **CIVIL ENGINEERING**

Drawing No: **3324338-CA-SK121**

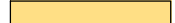







Rev: **D**

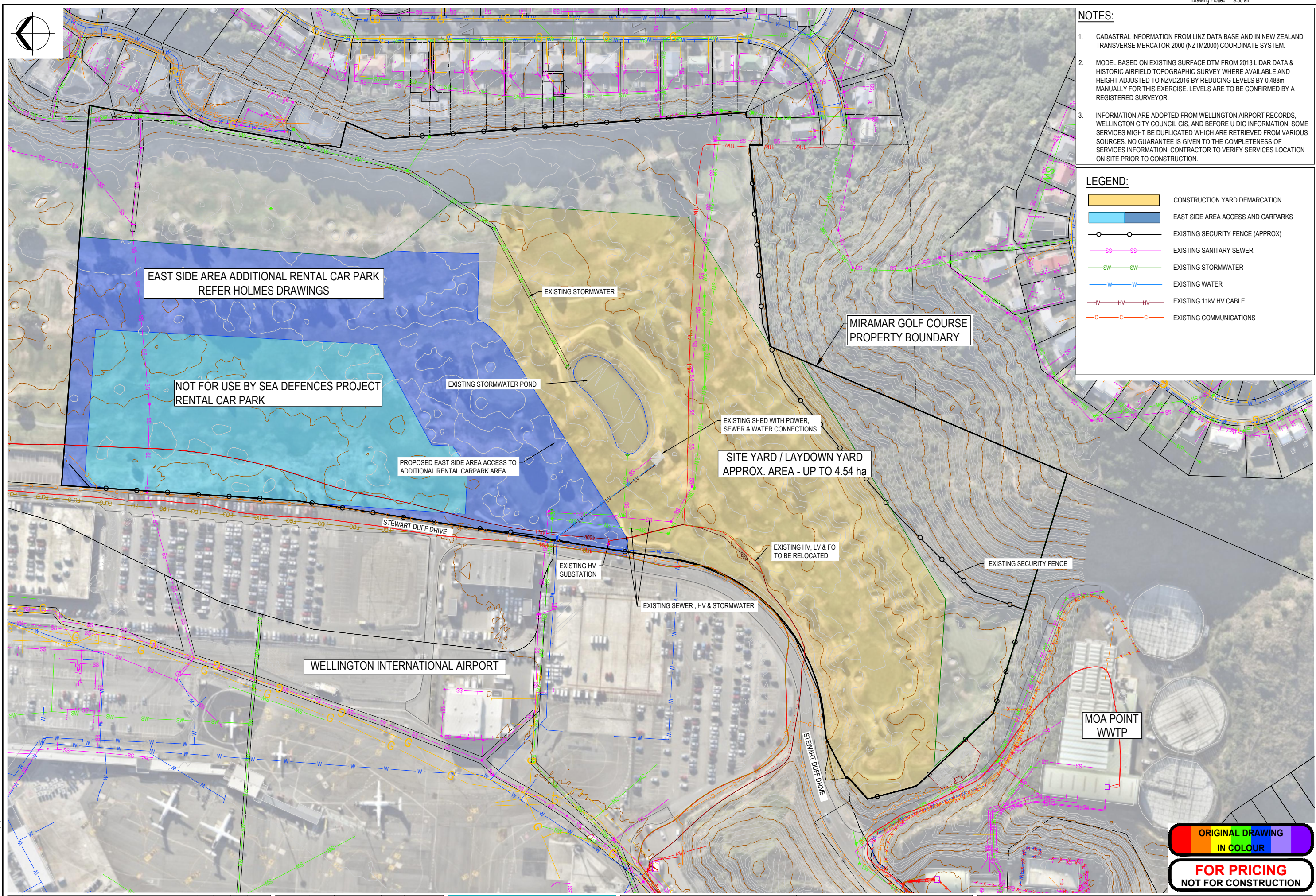


NOTES:

1. CADASTRAL INFORMATION FROM LINZ DATA BASE AND IN NEW ZEALAND TRANSVERSE MERCATOR 2000 (NZTM2000) COORDINATE SYSTEM.
2. MODEL BASED ON EXISTING SURFACE DTM FROM 2013 LIDAR DATA & HISTORIC AIRFIELD TOPOGRAPHIC SURVEY WHERE AVAILABLE AND HEIGHT ADJUSTED TO NZVD2016 BY REDUCING LEVELS BY 0.488m MANUALLY FOR THIS EXERCISE. LEVELS ARE TO BE CONFIRMED BY A REGISTERED SURVEYOR.
3. INFORMATION ARE ADOPTED FROM WELLINGTON AIRPORT RECORDS, WELLINGTON CITY COUNCIL GIS, AND BEFORE U DIG INFORMATION. SOME SERVICES MIGHT BE DUPLICATED WHICH ARE RETRIEVED FROM VARIOUS SOURCES. NO GUARANTEE IS GIVEN TO THE COMPLETENESS OF SERVICES INFORMATION. CONTRACTOR TO VERIFY SERVICES LOCATION ON SITE PRIOR TO CONSTRUCTION.

LEGEND:

-  CONSTRUCTION YARD DEMARCATION
-  EAST SIDE AREA ACCESS AND CARPARKS
-  EXISTING SECURITY FENCE (APPROX)
-  EXISTING SANITARY SEWER
-  EXISTING STORMWATER
-  EXISTING WATER
-  EXISTING 11KV HV CABLE
-  EXISTING COMMUNICATIONS



60
40
20
0
FULL SIZE 1:1000; HALF SIZE 1:2000
SCALE (m)

**ORIGINAL DRAWING
IN COLOUR**

**FOR PRICING
NOT FOR CONSTRUCTION**

No.	Revision	By	Chk	Appd	Date
B	FOR RESOURCE CONSENT	CFP	JH	JH	11.07.25
A	FOR RESOURCE CONSENT	SZ	TNM	JH	08.04.25

Original Scale (A1)	Design	TNM	08.04.25	Approved For Construction*
1:1000	Drawn	SZ	08.04.25	
Reduce Scale (A3)	Design Checker	CGK	08.04.25	Date
1:2000	Drawn	CGK	08.04.25	

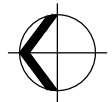
* Refer to Revision 1 for Original Signature



Client: **WIAL SEA DEFENCE STRUCTURES RENEWAL**

Title: **MGC CONSTRUCTION YARD EXISTING CONTOURS & SERVICES LAYOUT PLAN**

Discipline	CIVIL ENGINEERING
Drawing No.	3324338-CA-SK200
Rev.	B

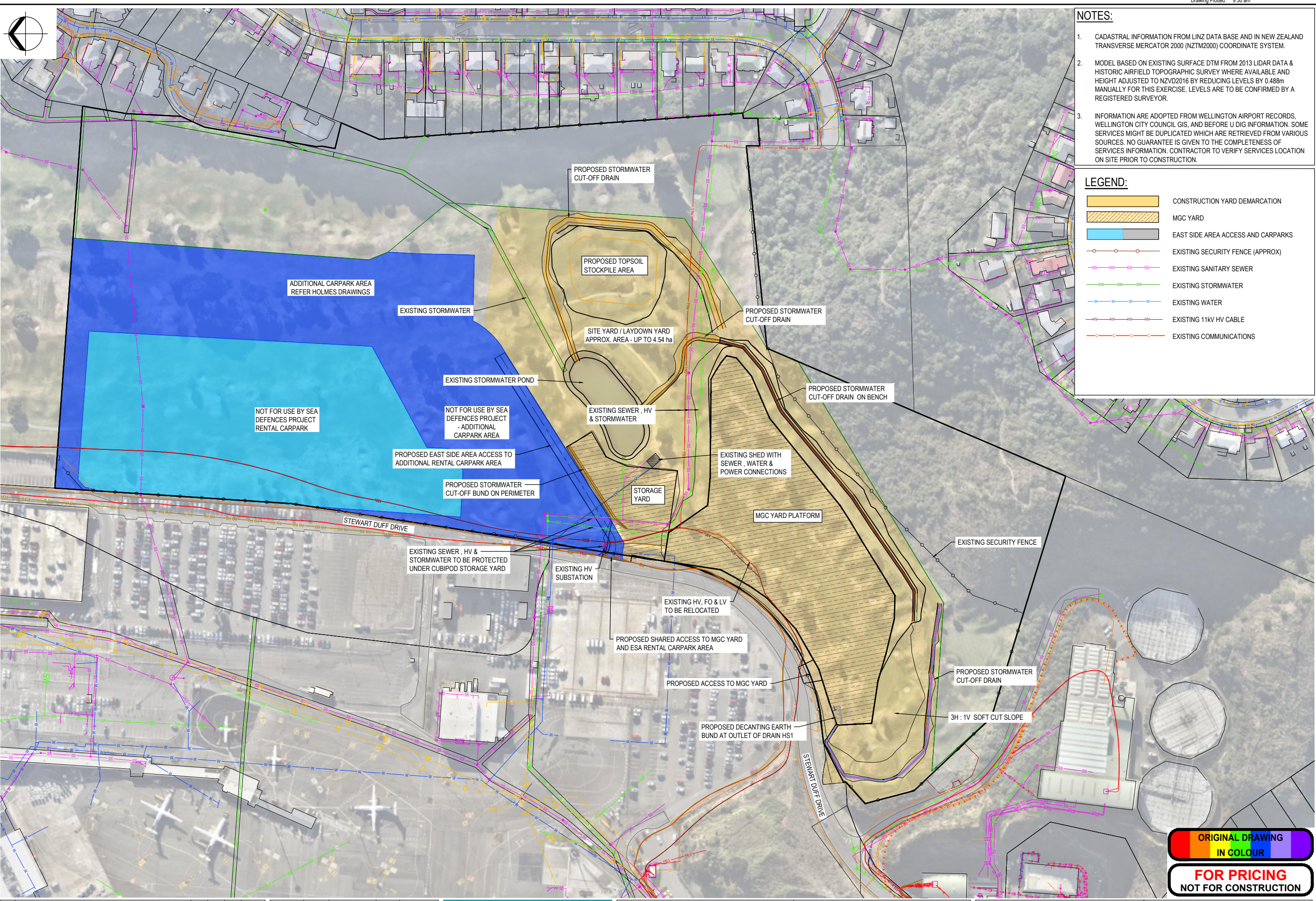


NOTES:

1. CADASTRAL INFORMATION FROM LINZ DATA BASE AND IN NEW ZEALAND TRANSVERSE MERCATOR 2000 (NZTM2000) COORDINATE SYSTEM.
2. MODEL BASED ON EXISTING SURFACE DTM FROM 2013 LIDAR DATA & HISTORIC AIRFIELD TOPOGRAPHIC SURVEY WHERE AVAILABLE AND HEIGHT ADJUSTED TO NZVD2016 BY REDUCING LEVELS BY 0.488m MANUALLY FOR THIS EXERCISE. LEVELS ARE TO BE CONFIRMED BY A REGISTERED SURVEYOR.
3. INFORMATION ARE ADOPTED FROM WELLINGTON AIRPORT RECORDS, WELLINGTON CITY COUNCIL GIS, AND BEFORE U DIG INFORMATION. SOME SERVICES MIGHT BE DUPLICATED WHICH ARE RETRIEVED FROM VARIOUS SOURCES. NO GUARANTEE IS GIVEN TO THE COMPLETENESS OF SERVICES INFORMATION. CONTRACTOR TO VERIFY SERVICES LOCATION ON SITE PRIOR TO CONSTRUCTION.

LEGEND:

- CONSTRUCTION YARD DEMARCATION
- MGC YARD
- EAST SIDE AREA ACCESS AND CARPARKS
- EXISTING SECURITY FENCE (APPROX)
- EXISTING SANITARY SEWER
- EXISTING STORMWATER
- EXISTING WATER
- EXISTING 11kV HV CABLE
- EXISTING COMMUNICATIONS



0 10 20 40 60
FULL SIZE 1:1000; HALF SIZE 1:2000
SCALE (m)

**ORIGINAL DRAWING
IN COLOUR**

**FOR PRICING
NOT FOR CONSTRUCTION**

B	FOR RESOURCE CONSENT	CFP	JH	JH	11.07.25
A	FOR RESOURCE CONSENT	SZ	CGK	JH	08.04.25
No.	Revision	By	Chk	Appd	Date

Original Scale (A1)	Design	TNM	08.04.25	Approved For Construction*
1:1000	Drawn	SZ	08.04.25	
Reduce Scale (A3)	Design Checker	CJB	08.04.25	Date
1:2000	Dwg Check	CGK	08.04.25	

* Refer to Revision 1 for Original Signature



Client: **WIAL SEA DEFENCE STRUCTURES RENEWAL**

Title: **MGC CONSTRUCTION YARD GENERAL ARRANGEMENT & EXISTING SERVICES**

Discipline	CIVIL ENGINEERING
Drawing No.	3324338-CA-SK201
Rev.	B

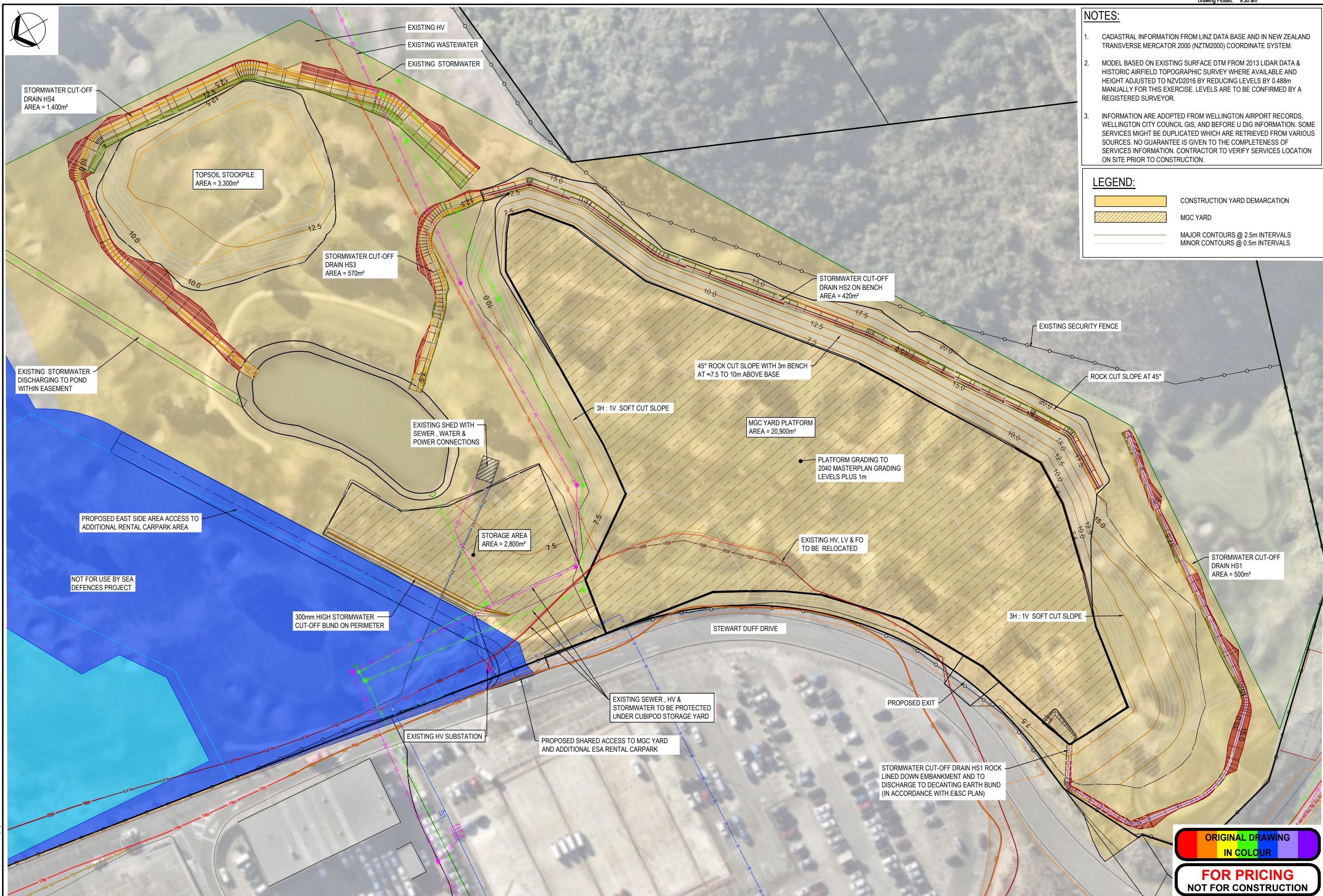


NOTES:

- CADASTRAL INFORMATION FROM LINZ DATA BASE AND IN NEW ZEALAND TRANSVERSE MERCATOR 2000 (NZTM2000) COORDINATE SYSTEM.
- MODEL BASED ON EXISTING SURFACE DTM FROM 2013 LIDAR DATA & HISTORIC AIRFIELD TOPOGRAPHIC SURVEY WHERE AVAILABLE AND HEIGHT ADJUSTED TO NZVD2016 BY REDUCING LEVELS BY 0.488m MANUALLY FOR THIS EXERCISE. LEVELS ARE TO BE CONFIRMED BY A REGISTERED SURVEYOR.
- INFORMATION ARE ADOPTED FROM WELLINGTON AIRPORT RECORDS, WELLINGTON CITY COUNCIL GIS, AND BEFORE U DIG INFORMATION. SOME SERVICES MIGHT BE DUPLICATED WHICH ARE RETRIEVED FROM VARIOUS SOURCES. NO GUARANTEE IS GIVEN TO THE COMPLETENESS OF SERVICES INFORMATION. CONTRACTOR TO VERIFY SERVICES LOCATION ON SITE PRIOR TO CONSTRUCTION.

LEGEND:

- CONSTRUCTION YARD DEMARCATON
- MGC YARD
- MAJOR CONTOURS @ 2.5m INTERVALS
- MINOR CONTOURS @ 0.5m INTERVALS



0 5 10 20 30
FULL SIZE 1:500; HALF SIZE 1:1000
SCALE (m)

**ORIGINAL DRAWING
IN COLOUR**

**FOR PRICING
NOT FOR CONSTRUCTION**

No.	Revision	By	Chk	Appd	Date
B	FOR RESOURCE CONSENT	CFP	JH	JH	11.07.25
A	FOR RESOURCE CONSENT	SZ	CGK	JH	08.04.25

Original Scale (A1)	Design	TNM	08.04.25	Approved For Construction*
1:500	Drawn	SZ	08.04.25	
Reduced Scale (A3)	Design	CGK	08.04.25	
1:1000	Check	CGK	08.04.25	

* Refer to Revision 1 for Original Signature



Client: **WIAL SEA DEFENCE STRUCTURES RENEWAL**

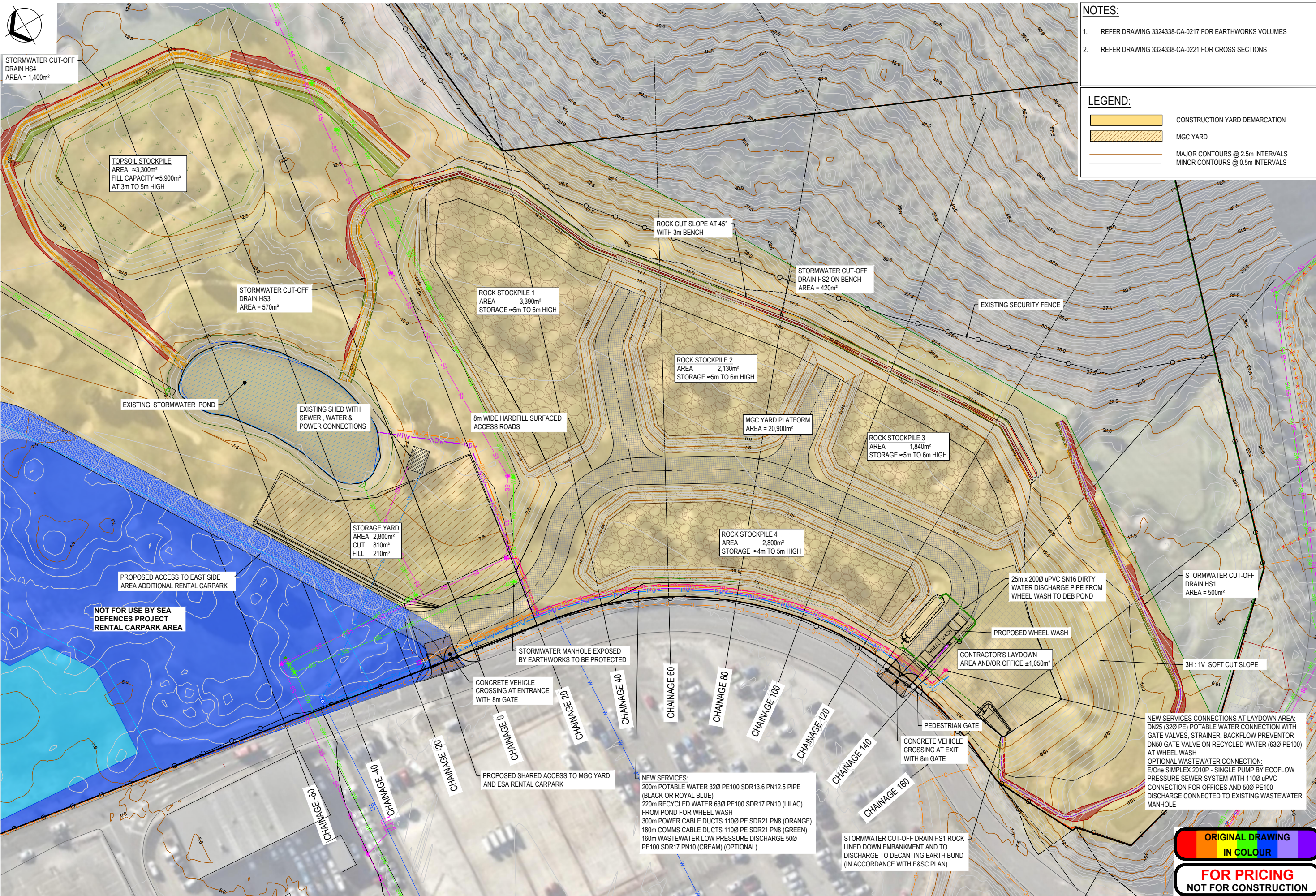
Project: **MGC CONSTRUCTION YARD STORAGE AREAS & STORMWATER DRAINAGE**

Discipline: **CIVIL ENGINEERING**

Drawing No.: **3324338-CA-SK211**

Rev: **B**

www.beca.com



NOTES:

- REFER DRAWING 3324338-CA-0217 FOR EARTHWORKS VOLUMES
- REFER DRAWING 3324338-CA-0221 FOR CROSS SECTIONS

LEGEND:

- CONSTRUCTION YARD DEMARCATION
- MGC YARD
- MAJOR CONTOURS @ 2.5m INTERVALS
- MINOR CONTOURS @ 0.5m INTERVALS

STORMWATER CUT-OFF DRAIN HS4
AREA = 1,400m²

TOPSOIL STOCKPILE
AREA ≈3,300m²
FILL CAPACITY ≈5,900m³
AT 3m TO 5m HIGH

STORMWATER CUT-OFF DRAIN HS3
AREA = 570m²

ROCK STOCKPILE 1
AREA 3,390m²
STORAGE ≈5m TO 6m HIGH

ROCK CUT SLOPE AT 45°
WITH 3m BENCH

STORMWATER CUT-OFF DRAIN HS2 ON BENCH
AREA = 420m²

EXISTING SECURITY FENCE

ROCK STOCKPILE 2
AREA 2,130m²
STORAGE ≈5m TO 6m HIGH

MGC YARD PLATFORM
AREA = 20,900m²

ROCK STOCKPILE 3
AREA 1,840m²
STORAGE ≈5m TO 6m HIGH

STORAGE YARD
AREA 2,800m²
CUT 810m³
FILL 210m³

ROCK STOCKPILE 4
AREA 2,800m²
STORAGE ≈4m TO 5m HIGH

PROPOSED ACCESS TO EAST SIDE
AREA ADDITIONAL RENTAL CARPARK

NOT FOR USE BY SEA DEFENCES PROJECT
RENTAL CARPARK AREA

25m x 200Ø uPVC SN16 DIRTY WATER DISCHARGE PIPE FROM WHEEL WASH TO DEB POND

STORMWATER CUT-OFF DRAIN HS1
AREA = 500m²

STORMWATER MANHOLE EXPOSED BY EARTHWORKS TO BE PROTECTED

PROPOSED WHEEL WASH

CONTRACTOR'S LAYDOWN AREA AND/OR OFFICE ±1,050m²

CONCRETE VEHICLE CROSSING AT ENTRANCE WITH 8m GATE

PEDESTRIAN GATE

CONCRETE VEHICLE CROSSING AT EXIT WITH 8m GATE

NEW SERVICES CONNECTIONS AT LAYDOWN AREA:
DN25 (320 PE) POTABLE WATER CONNECTION WITH GATE VALVES, STRAINER, BACKFLOW PREVENTOR
DN50 GATE VALVE ON RECYCLED WATER (63Ø PE100) AT WHEEL WASH
OPTIONAL WASTEWATER CONNECTION:
E/One SIMPLEX 2010P - SINGLE PUMP BY ECOFLOW
PRESSURE SEWER SYSTEM WITH 110Ø uPVC CONNECTION FOR OFFICES AND 50Ø PE100 DISCHARGE CONNECTED TO EXISTING WASTEWATER MANHOLE

NEW SERVICES:
200m POTABLE WATER 32Ø PE100 SDR13.6 PN12.5 PIPE (BLACK OR ROYAL BLUE)
220m RECYCLED WATER 63Ø PE100 SDR17 PN10 (LILAC) FROM POND FOR WHEEL WASH
300m POWER CABLE DUCTS 110Ø PE SDR21 PN8 (ORANGE)
180m COMMS CABLE DUCTS 110Ø PE SDR21 PN8 (GREEN)
160m WASTEWATER LOW PRESSURE DISCHARGE 50Ø PE100 SDR17 PN10 (CREAM) (OPTIONAL)

STORMWATER CUT-OFF DRAIN HS1 ROCK LINED DOWN EMBANKMENT AND TO DISCHARGE TO DECANTING EARTH BUND (IN ACCORDANCE WITH E&S PLAN)

PROPOSED SHARED ACCESS TO MGC YARD AND ESA RENTAL CARPARK

ORIGINAL DRAWING
IN COLOUR

FOR PRICING
NOT FOR CONSTRUCTION

30
20
10
0
FULL SIZE 1:500; HALF SIZE 1:1000
SCALE (m)

No.	Revision	By	Chk	Appd	Date
C	FOR RESOURCE CONSENT	CFP	JH	JH	28.07.25
B	FOR RESOURCE CONSENT	CFP	JH	JH	11.07.25
A	FOR RESOURCE CONSENT	SZ	CGK	JH	08.04.25

Original Scale (A1)	Design	TNM	08.04.25	Approved For Construction*
1:500	Drawn	SZ	08.04.25	
Reduced Scale (A3)	Design Verifier	CJB	08.04.25	
1:1000	Dwg Check	CGK	08.04.25	Date

* Refer to Revision 1 for Original Signature



Client: WIAL SEA DEFENCE STRUCTURES RENEWAL

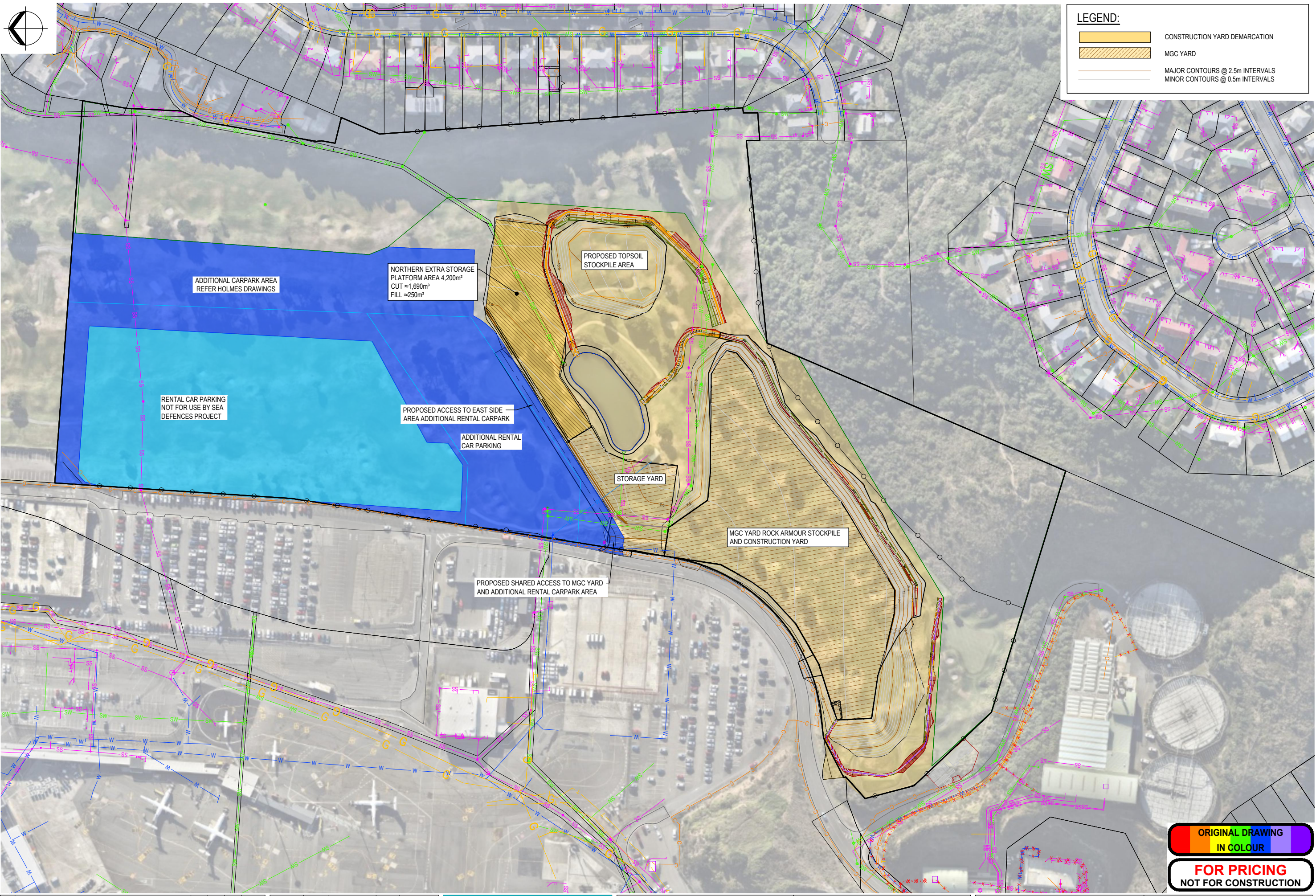
Project: MGC CONSTRUCTION YARD LAYOUT PLAN: ROADS, SERVICES & STOCKPILES

Discipline: CIVIL ENGINEERING
Drawing No: 3324338-CA-SK215
Rev: C



LEGEND:

- CONSTRUCTION YARD DEMARCATON
- MGC YARD
- MAJOR CONTOURS @ 2.5m INTERVALS
- MINOR CONTOURS @ 0.5m INTERVALS



0 10 20 40 60
FULL SIZE 1:1000; HALF SIZE 1:2000
SCALE (m)

**ORIGINAL DRAWING
IN COLOUR**

**FOR PRICING
NOT FOR CONSTRUCTION**

No.	Revision	By	Chk	Appd	Date
B	FOR RESOURCE CONSENT	CFP	JH	JH	11.07.25
A	FOR RESOURCE CONSENT	SZ	CGK	JH	08.04.25

Original Scale (A1)	Design	TNM	08.04.25	Approved For Construction*
1:1000	Drawn	SZ	08.04.25	
Reduce Scale (A3)	Design Verifier	CJB	08.04.25	Date
1:2000	Dwg Check	CGK	08.04.25	

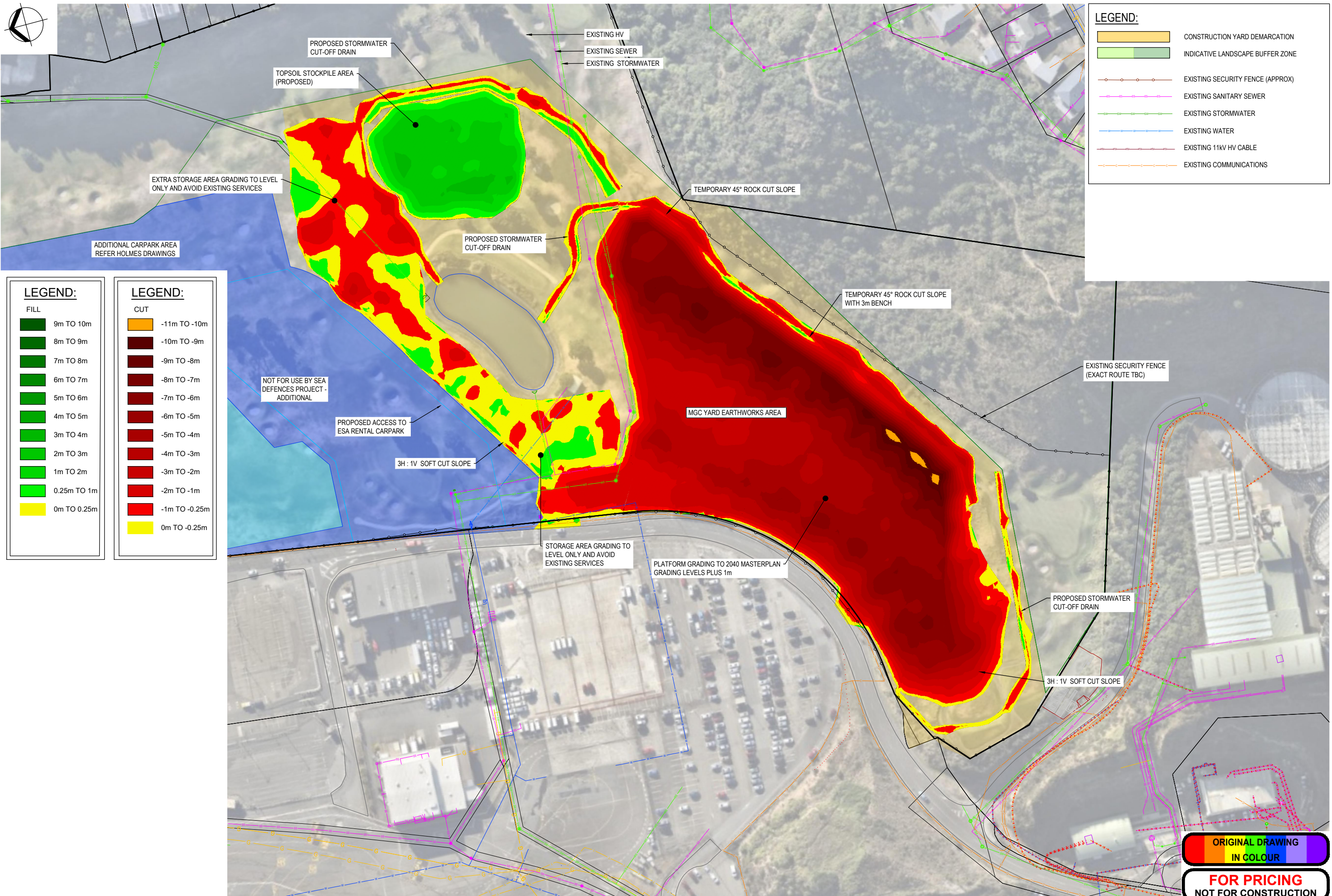
* Refer to Revision 1 for Original Signature



Client: **WIAL SEA DEFENCE STRUCTURES RENEWAL**

Title: **MGC CONSTRUCTION YARD ADDITIONAL EARTHWORKS AREAS**

Discipline	CIVIL ENGINEERING	
Drawing No.	3324338-CA-SK216	Rev.
		B



LEGEND:

- CONSTRUCTION YARD DEMARCATION
- INDICATIVE LANDSCAPE BUFFER ZONE
- EXISTING SECURITY FENCE (APPROX)
- EXISTING SANITARY SEWER
- EXISTING STORMWATER
- EXISTING WATER
- EXISTING 11KV HV CABLE
- EXISTING COMMUNICATIONS

LEGEND:

FILL

- 9m TO 10m
- 8m TO 9m
- 7m TO 8m
- 6m TO 7m
- 5m TO 6m
- 4m TO 5m
- 3m TO 4m
- 2m TO 3m
- 1m TO 2m
- 0.25m TO 1m
- 0m TO 0.25m

LEGEND:

CUT

- 11m TO -10m
- 10m TO -9m
- 9m TO -8m
- 8m TO -7m
- 7m TO -6m
- 6m TO -5m
- 5m TO -4m
- 4m TO -3m
- 3m TO -2m
- 2m TO -1m
- 1m TO -0.25m
- 0m TO -0.25m

NOT FOR USE BY SEA DEFENCES PROJECT - ADDITIONAL

ORIGINAL DRAWING
IN COLOUR
**FOR PRICING
NOT FOR CONSTRUCTION**

C	FOR RESOURCE CONSENT	CFP	JH	JH	28.07.25
B	FOR RESOURCE CONSENT	CFP	JH	JH	11.07.25
A	FOR RESOURCE CONSENT	SZ	CGK	JH	08.04.25
No.	Revision	By	Chk	Appd	Date

Original Scale (A1)	Design	TNM	08.04.25	Approved For Construction*
1:750	Drawn	SZ	08.04.25	
Reduce Scale (A3)	Design Checker	CGK	08.04.25	
1:1500	Design Checker	CGK	08.04.25	Date



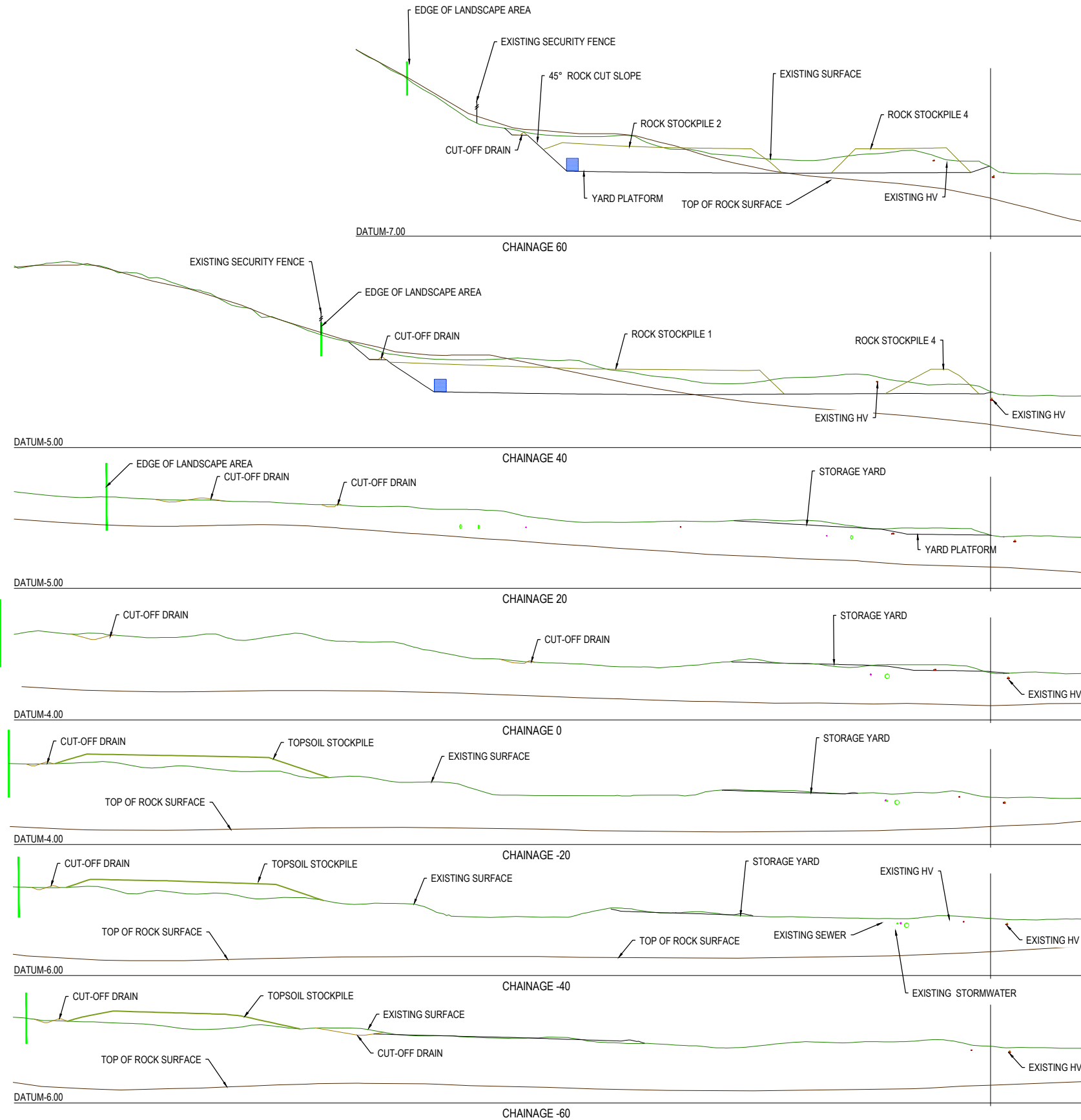
Client: **WIAL SEA DEFENCE STRUCTURES RENEWAL**

Title: **MGC CONSTRUCTION YARD ISOPACH - CUT AND FILL PLAN**

Discipline: **CIVIL ENGINEERING**
Drawing No: **3324338-CA-SK217**
Rev: **C**

NOTES:

1. REFER TO 3324338-CA-0001 FOR DRAWING LIST.
2. REFER TO 3324338-CA-0002 FOR GENERAL NOTES AND LEGEND.
3. REFER TO DRAWING 3324338-CA-0215 FOR CROSS SECTION LOCATIONS.
4. MAXIMUM CUT SLOPE IN ROCK IS 1V:1H UP TO A MAXIMUM CUT SLOPE HEIGHT OF 10m; AND 1V:1.5H FOR CUT SLOPE HEIGHT GREATER THAN 10m. MAXIMUM CUT SLOPE IN OVERLYING FILL OR COLLUVIUM IS 1V:1.5H UP TO A MAXIMUM BATTER SLOPE HEIGHT OF 3m. OVERLYING FILL OR COLLUVIUM GREATER THAN 3m IN THICKNESS SHALL BE BENCHED WITH MINIMUM BENCH WIDTH OF 3m.
5. SEPARATION BUNDS (E.G. SHIPPING CONTAINERS) AT THE TOE OF THE CUT SLOPES ARE REQUIRED AT ALL TIMES DURING YARD OPERATION DUE TO THE RISK OF ROCKFALL FROM THE CUT FACES.
6. AN ENGINEERING GEOLOGIST OR GEOTECHNICAL ENGINEER APPOINTED BY THE PRINCIPAL WILL MONITOR EXCAVATION OF THE CUT SLOPES. DEPENDING ON ACTUAL CONDITIONS ENCOUNTERED ON SITE (E.G. GROUNDWATER SEEPAGES, LOCATION OF ROCK, THICKNESSES OF OVERLYING FILL/COLLUVIUM), WORK MAY BE PAUSED TO ALLOW FOR GEOTECHNICAL REVIEW, AND SLOPE AND BENCHING REQUIREMENTS MAY BE REVISED.
7. DEWATERING SHOULD BE ALLOWED FOR DURING EXCAVATION.
8. CUT SLOPES SHALL BE HYDROSEEDED AFTER COMPLETION.



No.	Revision	By	Chk	Appd	Date
C	FOR RESOURCE CONSENT	CFP	JH	JH	28.07.25
B	FOR RESOURCE CONSENT	CFP	JH	JH	11.07.25
A	FOR RESOURCE CONSENT	SZ	CGK	JH	08.04.25

Original Scale (A1)	Design	TNM	08.04.25	Approved For Construction*
1:500	Drawn	SZ	08.04.25	
Reduced Scale (A3)	Design Verifier	CJB	08.04.25	
1:1000	Dwg Check	CGK	08.04.25	Date

* Refer to Revision 1 for Original Signature



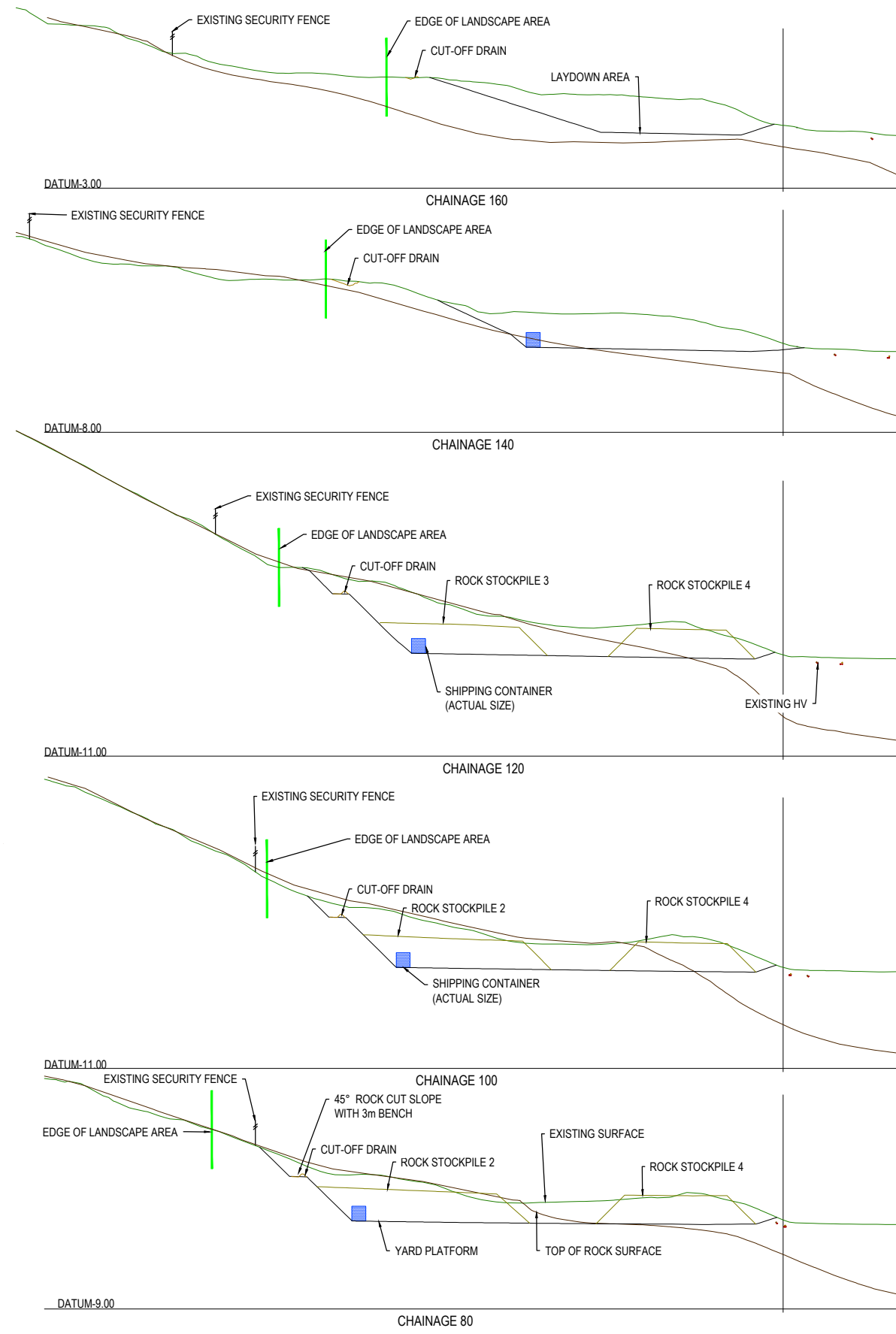
Client: **WIAL SEA DEFENCE STRUCTURES RENEWAL**

Title: **MGC CONSTRUCTION YARD BULK EARTHWORKS CROSS SECTIONS #1**

Discipline	CIVIL ENGINEERING
Drawing No.	3324338-CA-SK221
Rev.	C

NOTES:

1. REFER TO 3324338-CA-0001 FOR DRAWING LIST.
2. REFER TO 3324338-CA-0002 FOR GENERAL NOTES AND LEGEND.
3. REFER TO DRAWING 3324338-CA-0215 FOR CROSS SECTION LOCATIONS.
4. MAXIMUM CUT SLOPE IN ROCK IS 1V:1H UP TO A MAXIMUM CUT SLOPE HEIGHT OF 10m; AND 1V:1.5H FOR CUT SLOPE HEIGHT GREATER THAN 10m. MAXIMUM CUT SLOPE IN OVERLYING FILL OR COLLUVIUM IS 1V:1.5H UP TO A MAXIMUM BATTER SLOPE HEIGHT OF 3m. OVERLYING FILL OR COLLUVIUM GREATER THAN 3m IN THICKNESS SHALL BE BENCHED WITH MINIMUM BENCH WIDTH OF 3m.
5. SEPARATION BUNDS (E.G. SHIPPING CONTAINERS) AT THE TOE OF THE CUT SLOPES ARE REQUIRED AT ALL TIMES DURING YARD OPERATION DUE TO THE RISK OF ROCKFALL FROM THE CUT FACES.
6. AN ENGINEERING GEOLOGIST OR GEOTECHNICAL ENGINEER APPOINTED BY THE PRINCIPAL WILL MONITOR EXCAVATION OF THE CUT SLOPES. DEPENDING ON ACTUAL CONDITIONS ENCOUNTERED ON SITE (E.G. GROUNDWATER SEEPAGES, LOCATION OF ROCK, THICKNESSES OF OVERLYING FILL/COLLUVIUM), WORK MAY BE PAUSED TO ALLOW FOR GEOTECHNICAL REVIEW, AND SLOPE AND BENCHING REQUIREMENTS MAY BE REVISED.
7. DEWATERING SHOULD BE ALLOWED FOR DURING EXCAVATION.
8. CUT SLOPES SHALL BE HYDROSEEDED AFTER COMPLETION.



No.	Revision	By	Chk	Appd	Date
A	FOR RESOURCE CONSENT	CFP	JH	JH	23.07.25

Original Scale (A1)	Design	TNM	08.04.25	Approved For Construction*
1:500	Drawn	SZ	08.04.25	
Reduced Scale (A3)	Design Checker	CJB	08.04.25	
1:1000	Design Checker	CGK	08.04.25	

* Refer to Revision 1 for Original Signature



Client: **WIAL SEA DEFENCE STRUCTURES RENEWAL**

Project: **MGC CONSTRUCTION YARD BULK EARTHWORKS CROSS SECTIONS #2**

Discipline: **CIVIL ENGINEERING**
 Drawing No.: **3324338-CA-SK222**
 Rev: **A**

