

SOUTHSHORE AND SOUTH NEW BRIGHTON PARK EROSION AND INUNDATION PROTECTION



LOCATION PLAN
NTS

DRAWING SCHEDULE

DRAWING NO.	DESCRIPTION
IA271200-CD-DRG-0001	COVER SHEET AND DRAWING SCHEDULE
IA271200-CD-DRG-0002	SHEET LAYOUT PLAN
IA271200-CD-DRG-1001	GENERAL ARRANGEMENT- SHEET 1
IA271200-CD-DRG-1002	GENERAL ARRANGEMENT- SHEET 2
IA271200-CD-DRG-1003	GENERAL ARRANGEMENT- SHEET 3
IA271200-CD-DRG-1004	GENERAL ARRANGEMENT- SHEET 4
IA271200-CD-DRG-1005	GENERAL ARRANGEMENT- SHEET 5
IA271200-CD-DRG-1006	GENERAL ARRANGEMENT- SHEET 6
IA271200-CD-DRG-1007	GENERAL ARRANGEMENT- SHEET 7
IA271200-CD-DRG-1008	GENERAL ARRANGEMENT- SHEET 8
IA271200-CD-DRG-2001	TYPICAL CROSS SECTIONS - SHEET 1
IA271200-CD-DRG-2002	TYPICAL CROSS SECTIONS - SHEET 2
IA271200-CD-DRG-2003	TYPICAL CROSS SECTIONS - SHEET 3
IA271200-CD-DRG-2004	TYPICAL CROSS SECTIONS - SHEET 4
IA271200-CD-DRG-2005	TYPICAL CROSS SECTIONS - SHEET 5
IA271200-CD-DRG-4001	ESTUARY ACCESS TYPICAL DETAILS

LEGEND

PROJECT EXTENTS

INFORMATION ISSUE
NOT FOR CONSTRUCTION

B	INFORMATION ISSUE	NS	07/11/23
A	INFORMATION ISSUE	JS	13/04/22
ISSUE	AMENDMENTS	SIGNED	DATE



DATUM	C.D.D.	DESIGNED	NAME	SIGNED	DATE
BENCH MK.		DES. REVIEW			
RL		DRAWN			
SURVEY		DRW. CHECK			
SURVEY LB		FILE LOCATION	project\tele\jacobs_gnz_nz		
DRAIN. REF.		IA271200-CD-DRG-0001.dwg			
SAP WBS		PRINTED ON 14/09/2023 BY SANDERS, NICK			

APPROVED	
FOR TENDER	
DATE	SIGNED
FOR CONSTRUCTION	
DATE	SIGNED

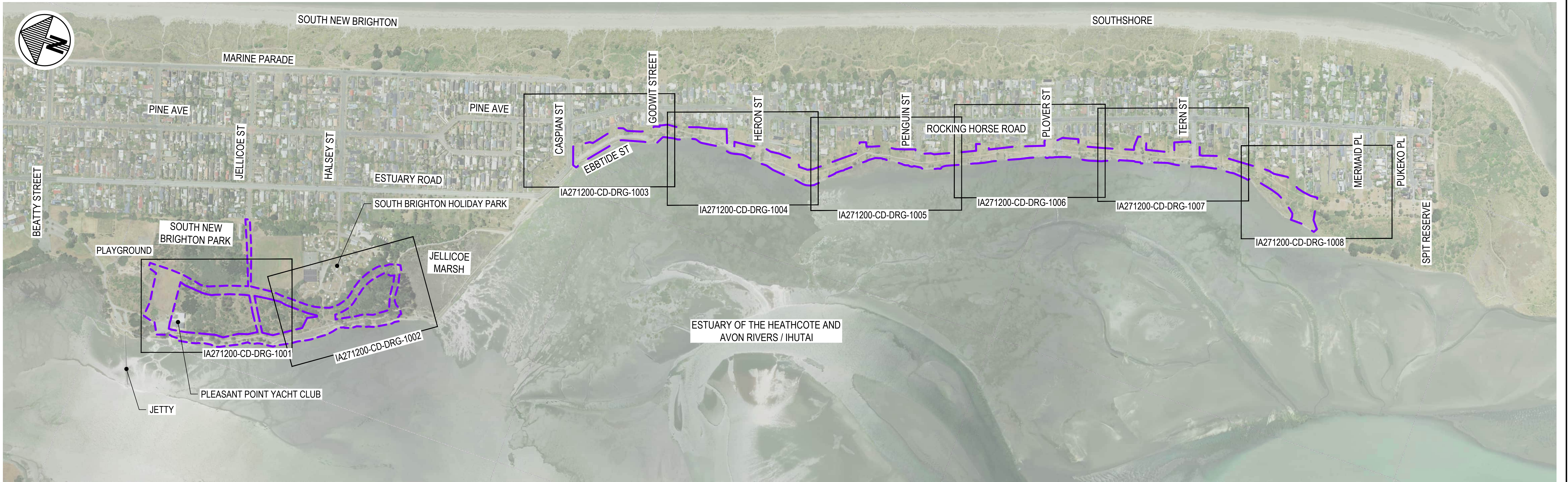
CONSULTANT	
Jacobs	
CHRISTCHURCH, NEW ZEALAND Web: www.jacobs.com	
CONSULTANT PROJECT REF.	CONSULTANT DRG. No.
IA271200	IA271200-0000-CD-DRG-0001
REV.	B

PROJECT TITLE	
CHRISTCHURCH CITY COUNCIL SOUTHSHORE AND SOUTH NEW BRIGHTON PARK EROSION AND INUNDATION PROTECTION	

DRAWING TITLE	
COVER SHEET AND DRAWING SCHEDULE	

DOCUMENT NUMBER	ORIGINAL SHEET SIZE	SCALES
CN4600003899	A1	NTS
CAD DRAWING FILE REF.		
-		
TSD PROJECT FILE NUMBER	SHEET	
	0001	

0 10 30 50 100 150 200 300
Original size mm
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SHEET LAYOUT PLAN
SCALE 1:5000

LEGEND

 PROJECT EXTENTS

INFORMATION ISSUE
NOT FOR CONSTRUCTION

SCALE 1:5000 (A1)
100 50 0 100 200 300 400 500m



DATUM	C.D.D.	DESIGNED	NAME	SIGNED	DATE
BENCH MK.		DES. REVIEW			
RL		DRAWN			
SURVEY		DRW. CHECK			
SURVEY LB		FILE LOCATION	project\rel\jacobson_gnz_nz		
DRAIN. REF.		IA271200-CD-DRG-0002.dwg			
SAP WBS		PRINTED ON 14/09/2023 BY SANDERS, NICK			

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FOR TENDER	
DATE	SIGNED
FOR CONSTRUCTION	
DATE	SIGNED

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REV.	B

PROJECT TITLE	
CHRISTCHURCH CITY COUNCIL	
SOUTHSHORE AND SOUTH NEW BRIGHTON PARK	
EROSION AND INUNDATION PROTECTION	

DRAWING TITLE	
SHEET LAYOUT PLAN	

DOCUMENT NUMBER	ORIGINAL SHEET SIZE	SCALES
CN4600003899	A1	1:5000
CAD DRAWING FILE REF.		
-		
TSD PROJECT FILE NUMBER	SHEET	
	0002	

300
200
150
100
50
30
10
0
Original size mm



PROPOSED BUND TIES INTO
NATURAL HIGH GROUND AT RL
11.50m

A 1 m WIDE IMPERMEABLE BUND
CORE SHALL EXTEND 10 m IN TO THE
NATURAL GROUND TO INCREASE THE
SEEPAGE PATH LENGTH

EXISTING ESTUARY EDGE STRUCTURE INVENTORY

STRUCTURE ID	DESCRIPTION	LINEAR LENGTH (m)	AREA (m ²)	DESIGN ACTION
GBRM1	GABION BASKETS AND RENO MATTRESS. GABION COBBLES SIZE ESTIMATE = 0.1-0.3M DIA.	12.1	15.6	RETAIN
RM4 D	RENO MATTRESS RENO COBBLES SIZE ESTIMATE = 0.2M DIA.	41.4	99.2	REMOVE AND RE-USE SITE-WON MATERIAL
RM4 C	RENO MATTRESS RENO COBBLES SIZE ESTIMATE = 0.2M DIA.	44.6	124.5	REMOVE AND RE-USE SITE-WON MATERIAL
RM4 B	RENO MATTRESS RENO COBBLES SIZE ESTIMATE = 0.2M DIA.	17.1	51.5	REMOVE AND RE-USE SITE-WON MATERIAL
RM4 A	RENO MATTRESS RENO COBBLES SIZE ESTIMATE = 0.2M DIA.	45.5	135.0	REMOVE AND RE-USE SITE-WON MATERIAL
RM3 B	RENO MATTRESS	19.7	21.4	REMOVE AND RE-USE SITE-WON MATERIAL
RM3 A	RENO MATTRESS RENO COBBLES SIZE ESTIMATE = 0.2M DIA.	64.9	118.2	REMOVE AND RE-USE SITE-WON MATERIAL

NOTE: THE DESIGN ACTIONS ARE PRELIMINARY AND SUBJECT TO CHANGE DEPENDENT ON FINAL CONSTRUCTED ALIGNMENT, CHANGE IN SEAGRASS EXTENTS AND PRESENCE OF ASBESTOS CONTAINING MATERIAL

NOTES

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- REFER TO THE LANDSCAPING DRAWINGS FOR THE PROJECT BOUNDARY FOR PLANTING AND PATHS.
- REFER TO THE LANDSCAPE DRAWINGS FOR EXISTING FENCES TO BE REMOVED AND REINSTATED.
- REFER TO THE LANDSCAPE DRAWINGS FOR TREES REQUIRING REMOVAL.
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LEGEND

EXISTING SERVICES

- POWER
- POWER POLE
- CHORUS
- ENABLE
- VODAFONE
- WATER
- ABANDONED WATER
- WATER METER
- VALVE
- HYDRANT
- SW PIPELINE / CHANNEL
- SW MH
- SW SINGLE SUMP
- SW DOUBLE SUMP
- SW TRIPLE SUMP
- SEWER MH
- SEWER LINE
- ABANDONED SEWER LINE

EXISTING FEATURES

- TOP OF BANK
- VEGETATION
- GATE
- FENCE
- EROSION PROTECTION AND BUND STRUCTURES
- SALTMARSH TO BE PROTECTED
- SALTMARSH TO BE REMOVED
- SALTMARSH TO BE PROTECTED
- EXISTING SEAGRASS TO BE PROTECTED
- EXISTING MIDDEN TO BE PROTECTED
- MHWS
- EXISTING TREE

DESIGN

- SW PIPELINE / CHANNEL
- SW SCRUFFY DOME
- PROJECT EXTENT
- GABION BASKETS

PLANTED BUND WITH PATH
REFER IA271200-CD-DRG-2001

PLEASANT POINT
YACHT CLUB

RISK:
ARCHAEOLOGICAL SHELL
MIDDEN SITE PRESENT ON
ERODED SHORELINE

RE-ALIGNMENT OF ESTUARY WALKWAY
TO BE SET BACK TO SUIT PROPOSED
COBBLE BEACH FOOTPRINT
REFER TO LANDSCAPING DRAWINGS

REV#D: Changes since
consent lodgement set

COBBLE BEACH RELOCATED INLAND APPROX 7M TO BALANCE
PROJECT RECLAMATION/DECLAMATION.

WIRE TO BE REMOVED FROM EXISTING RENO
MATTRESS AND STONES TO BE REPROFIED
AND ENCAPSULATED BY PROPOSED COBBLE
BEACH.

COBBLE BEACH
REFER IA271200-CD-DRG-2002

PROPOSED GABION BASKETS
TO TIE INTO EXISTING GABION
BASKETS

GABION BASKETS
REFER IA271200-CD-DRG-2002

WIRE TO BE REMOVED FROM EXISTING RENO
MATTRESS AND STONES TO BE REPROFIED
AND ENCAPSULATED BY PROPOSED GABION
BASKETS

GABION BASKETS
REFER IA271200-CD-DRG-2002

COBBLE BEACH
REFER IA271200-CD-DRG-2002

TRANSITION BETWEEN EROSION PROTECTION
TREATMENTS
10m NOM. LENGTH OF TRANSITION

INFORMATION ISSUE
NOT FOR CONSTRUCTION

SHEET LAYOUT PLAN
SCALE 1:500

SCALE 1:500 (A1)
10 20 30 40 50m
108 6 4 2

D	MINOR CHANGES FOR CONSENT	DL	04/02/25
C	INFORMATION ISSUE	NS	07/11/23
B	INFORMATION ISSUE	NS	15/09/23
A	INFORMATION ISSUE	JS	13/04/22
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SURVEY		DRW. CHECK				FOR CONSTRUCTION
SURVEY LB		FILE LOCATION	project\newcastle_nz_n			DATE
		IA271200-CD-DRG-1001.dwg				SIGNED
DRAIN REF.		PRINTED ON 14/09/2023 BY SANDERS, NICK				
SAP WBS						

PROJECT TITLE
**CHRISTCHURCH CITY COUNCIL
SOUTHSHORE AND SOUTH NEW BRIGHTON PARK
EROSION AND INUNDATION PROTECTION**

DRAWING TITLE
**GENERAL ARRANGEMENT
SHEET 1**

DOCUMENT NUMBER	CN4600003899	ORIGINAL SHEET SIZE	A1	SCALES	1:500
CAD DRAWING FILE REF.	-				
TSD PROJECT FILE NUMBER				SHEET	1001



EXISTING ESTUARY EDGE STRUCTURE INVENTORY				
STRUCTURE ID	DESCRIPTION	LINEAR LENGTH (m)	AREA (m2)	DESIGN ACTION
RM2 I	RENO MATTRESS RENO COBBLES SIZE ESTIMATE = 0.2M DIA	180.4	474.3	REMOVE AND RE-USE SITE-WON MATERIAL
RM2 H	RENO MATTRESS SANDBAGS PRESENT BEHIND RENO, RENO COBBLES SIZE ESTIMATE = 0.2M DIA	10.9	24.9	REMOVE AND RE-USE SITE-WON MATERIAL
RM2 G	RENO MATTRESS RENO COBBLES SIZE ESTIMATE = 0.2M DIA	73.7	268.1	REMOVE AND RE-USE SITE-WON MATERIAL
RM2 F	RENO MATTRESS RENO COBBLES SIZE ESTIMATE = 0.2M DIA	43.4	170.1	REMOVE AND RE-USE SITE-WON MATERIAL
RM2 E	RENO MATTRESS RENO COBBLES SIZE ESTIMATE = 0.2M DIA	21.2	74.0	RETAIN
RM2 D	RENO MATTRESS RENO COBBLES SIZE ESTIMATE = 0.2M DIA	32.4	121.5	RETAIN
RM2 C	RENO MATTRESS RENO COBBLES SIZE ESTIMATE = 0.1 - 0.2M DIA	6.2	23.2	RETAIN
RM2 B	RENO MATTRESS RENO COBBLES SIZE ESTIMATE = 0.2M DIA	6.5	29.8	RETAIN
RM2 A	RENO MATTRESS RENO COBBLES SIZE ESTIMATE = 0.2M DIA	2.2	19.5	RETAIN

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LEGEND

EXISTING SERVICES

POWER

PP

POWER POLE

CH

CHORUS

ENABLE

VODAFONE

WATER

ABANDONED WATER

WATER METER

VALVE

FH

HYDRANT

SW PIPELINE / CHANNEL

SW MH

SW SINGLE SUMP

SW DOUBLE SUMP

SW TRIPLE SUMP

SEWER MH

SEWER LINE

ABANDONED SEWER LINE

EXISTING FEATURES

TOP OF BANK

VEGETATION

GATE

FENCE

EROSION PROTECTION AND BUND STRUCTURES

SALT MARSH TO BE PROTECTED

SALT MEADOW TO BE REMOVED

SALT MEADOW TO BE PROTECTED

EXISTING SEAGRASS TO BE PROTECTED

EXISTING MIDDEN TO BE PROTECTED

MHWS

EXISTING TREE

DESIGN

SW PIPELINE / CHANNEL

SW SCRUFFY DOME

PROJECT EXTENT

GABION BASKETS

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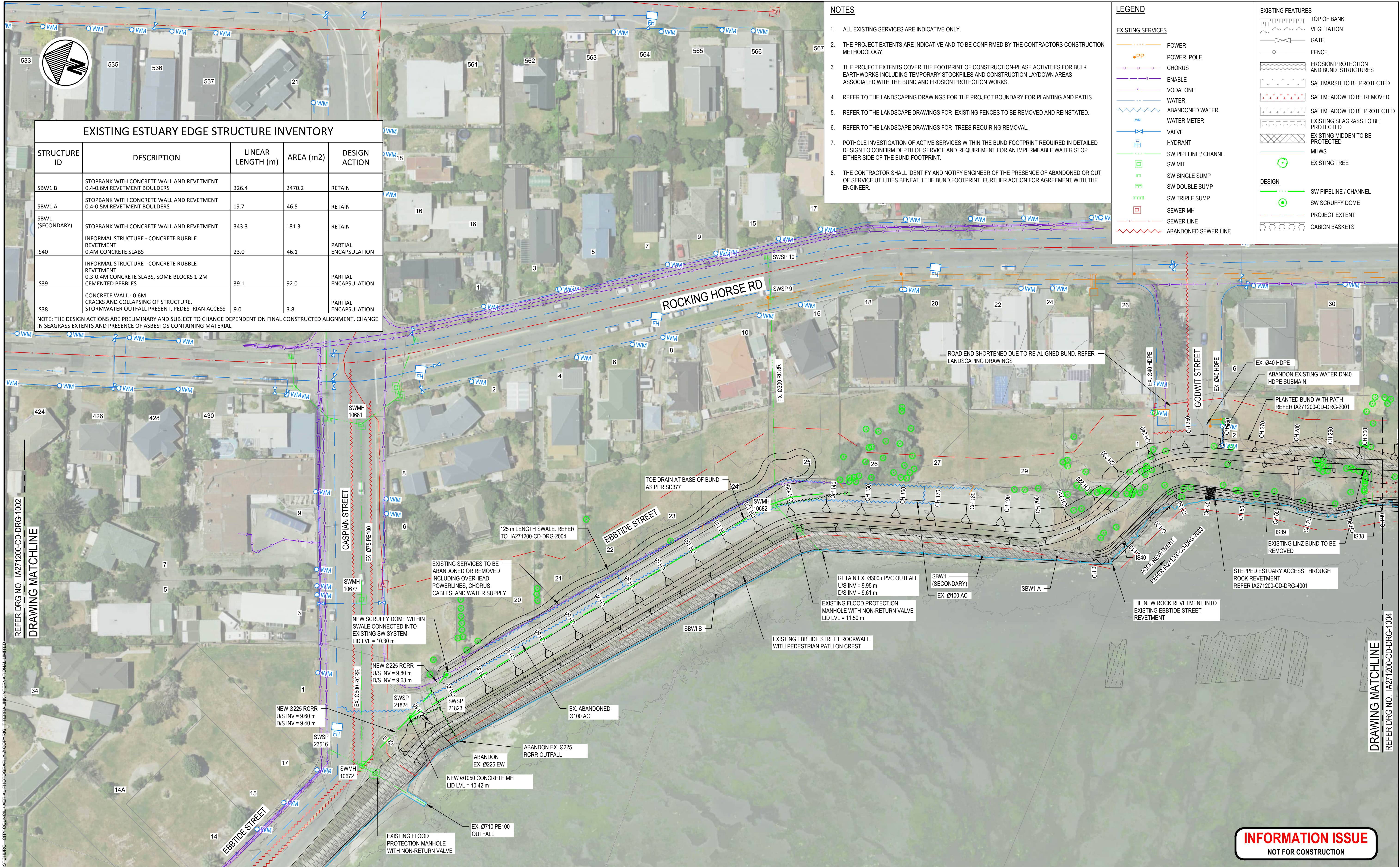
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EXISTING ESTUARY EDGE STRUCTURE INVENTORY				
STRUCTURE ID	DESCRIPTION	LINEAR LENGTH (m)	AREA (m2)	DESIGN ACTION
SBW1 B	STOPBANK WITH CONCRETE WALL AND REVETMENT 0.4-0.6M REVETMENT BOULDERS	326.4	2470.2	RETAIN
SBW1 A	STOPBANK WITH CONCRETE WALL AND REVETMENT 0.4-0.5M REVETMENT BOULDERS	19.7	46.5	RETAIN
SBW1 (SECONDARY)	STOPBANK WITH CONCRETE WALL AND REVETMENT	343.3	181.3	RETAIN
IS40	INFORMAL STRUCTURE - CONCRETE RUBBLE REVETMENT 0.4M CONCRETE SLABS	23.0	46.1	PARTIAL ENCAPSULATION
IS39	INFORMAL STRUCTURE - CONCRETE RUBBLE REVETMENT 0.3-0.4M CONCRETE SLABS, SOME BLOCKS 1-2M CEMENTED PEBBLES	39.1	92.0	PARTIAL ENCAPSULATION
IS38	CONCRETE WALL - 0.6M CRACKS AND COLLAPSING OF STRUCTURE, STORMWATER OUTFALL PRESENT, PEDESTRIAN ACCESS	9.0	3.8	PARTIAL ENCAPSULATION
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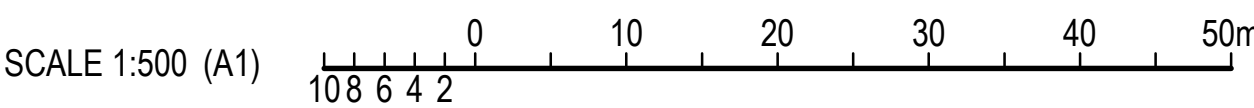
LEGEND

EXISTING SERVICES	
PP	POWER
PP	POWER POLE
CH	CHORUS
EN	ENABLE
VO	VODAFONE
W	WATER
AW	ABANDONED WATER
WM	WATER METER
V	VALVE
FH	HYDRANT
SW	SW PIPELINE / CHANNEL
SW MH	SW MH
SW S	SW SINGLE SUMP
SW DS	SW DOUBLE SUMP
SW TS	SW TRIPLE SUMP
SEW MH	SEWER MH
SEW L	SEWER LINE
ASL	ABANDONED SEWER LINE

EXISTING FEATURES	
TOP OF BANK	
VEGETATION	
GATE	
FENCE	
EROSION PROTECTION AND BUND STRUCTURES	
SALT MARSH TO BE PROTECTED	
SALT MEADOW TO BE REMOVED	
SALT MEADOW TO BE PROTECTED	
EXISTING SEAGRASS TO BE PROTECTED	
EXISTING MIDDEN TO BE PROTECTED	
MHWS	
EXISTING TREE	

DESIGN	
SW	SW PIPELINE / CHANNEL
SW S	SW SCRUFFY DOME
PE	PROJECT EXTENT
GB	GABION BASKETS

SHEET LAYOUT PLAN
SCALE 1:500



INFORMATION ISSUE
NOT FOR CONSTRUCTION

Christchurch City Council

DATUM
BENCH MK.
RL
SURVEY
SURVEY LB
DRW. CHECK
FILE LOCATION
DRAIN. REF.
SAP WBS

C.D.D.
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CONSULTANT
CHRISTCHURCH, NEW ZEALAND
Web: www.jacobs.com
CONSULTANT PROJECT REF.
IA271200

PROJECT TITLE
CHRISTCHURCH CITY COUNCIL
SOUTHSHORE AND SOUTH NEW BRIGHTON PARK
EROSION AND INUNDATION PROTECTION

DRAWING TITLE
GENERAL ARRANGEMENT
SHEET 3

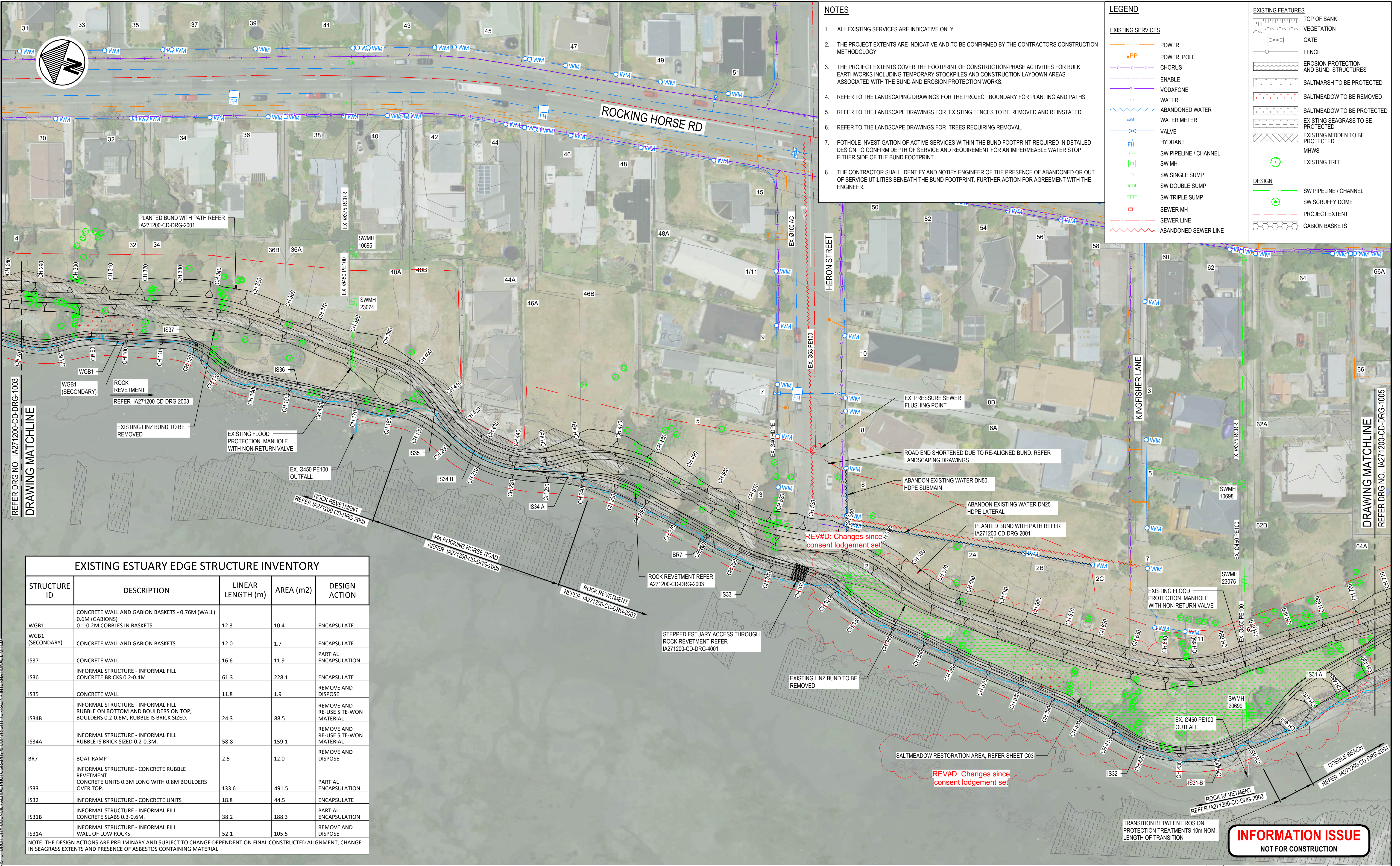
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ORIGINAL SHEET SIZE
A1
SHEET
1003

SCALES
1:500

ISSUE
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NS
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JS
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05/05/23
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LEGEND

EXISTING SERVICES

- POWER
- POWER POLE
- CHORUS
- ENABLE
- VODAFONE
- WATER
- ABANDONED WATER
- WATER METER
- VALVE
- HYDRANT
- SW PIPELINE / CHANNEL
- SW MH
- SW SINGLE SUMP
- SW DOUBLE SUMP
- SW TRIPLE SUMP
- SEWER MH
- SEWER LINE
- ABANDONED SEWER LINE

EXISTING FEATURES

- TOP OF BANK
- VEGETATION
- GATE
- FENCE
- EROSION PROTECTION AND BUND STRUCTURES
- SALT MARSH TO BE PROTECTED
- SALT MEADOW TO BE REMOVED
- SALT MEADOW TO BE PROTECTED
- EXISTING SEAGRASS TO BE PROTECTED
- EXISTING MIDDEN TO BE PROTECTED
- MHWS
- EXISTING TREE

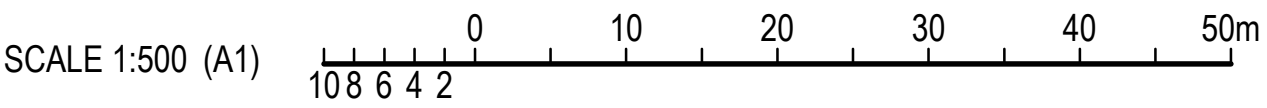
DESIGN

- SW PIPELINE / CHANNEL
- SW SCRUFFY DOME
- PROJECT EXTENT
- GABION BASKETS

EXISTING ESTUARY EDGE STRUCTURE INVENTORY				
STRUCTURE ID	DESCRIPTION	LINEAR LENGTH (m)	AREA (m2)	DESIGN ACTION
WGB1	CONCRETE WALL AND GABION BASKETS - 0.76M (WALL) 0.6M (GABIONS) 0.1-0.2M COBBLES IN BASKETS	12.3	10.4	ENCAPSULATE
WGB1 (SECONDARY)	CONCRETE WALL AND GABION BASKETS	12.0	1.7	ENCAPSULATE
IS37	CONCRETE WALL	16.6	11.9	PARTIAL ENCAPSULATION
IS36	INFORMAL STRUCTURE - INFORMAL FILL CONCRETE BRICKS 0.2-0.4M	61.3	228.1	ENCAPSULATE
IS35	CONCRETE WALL	11.8	1.9	REMOVE AND DISPOSE
IS34B	INFORMAL STRUCTURE - INFORMAL FILL RUBBLE ON BOTTOM AND BOULDERS ON TOP, BOULDERS 0.2-0.6M, RUBBLE IS BRICK SIZED.	24.3	88.5	REMOVE AND RE-USE SITE-WON MATERIAL
IS34A	INFORMAL STRUCTURE - INFORMAL FILL RUBBLE IS BRICK SIZED 0.2-0.3M.	58.8	159.1	REMOVE AND RE-USE SITE-WON MATERIAL
BR7	BOAT RAMP	2.5	12.0	REMOVE AND DISPOSE
IS33	INFORMAL STRUCTURE - CONCRETE RUBBLE REVETMENT CONCRETE UNITS 0.3M LONG WITH 0.8M BOULDERS OVER TOP.	133.6	491.5	PARTIAL ENCAPSULATION
IS32	INFORMAL STRUCTURE - CONCRETE UNITS	18.8	44.5	ENCAPSULATE
IS31B	INFORMAL STRUCTURE - INFORMAL FILL CONCRETE SLABS 0.3-0.6M.	38.2	188.3	PARTIAL ENCAPSULATION
IS31A	INFORMAL STRUCTURE - INFORMAL FILL WALL OF LOW ROCKS	52.1	105.5	REMOVE AND DISPOSE

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SHEET LAYOUT PLAN
SCALE 1:500



INFORMATION ISSUE
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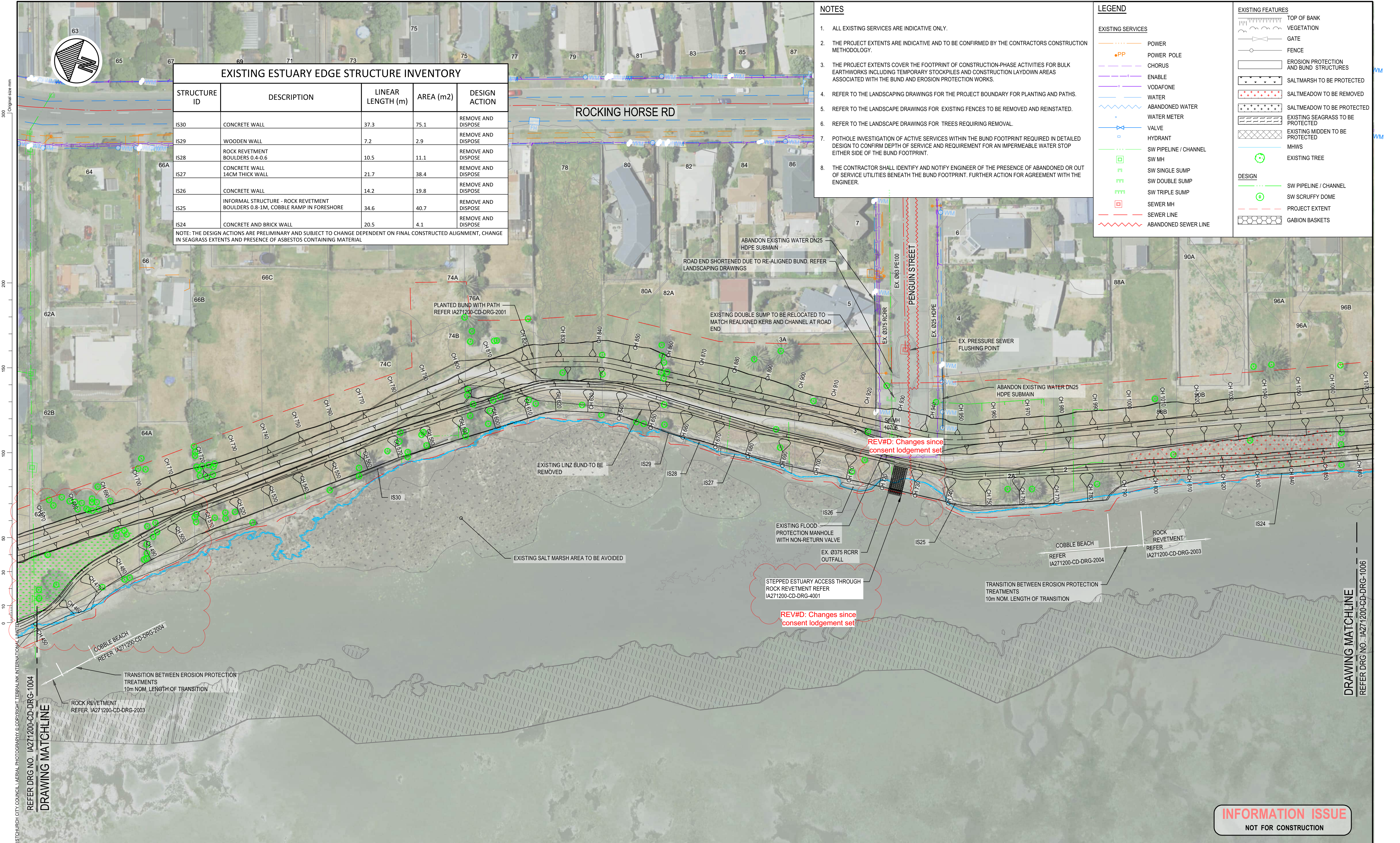
PROJECT TITLE

CHRISTCHURCH CITY COUNCIL
SOUTHSHORE AND SOUTH NEW BRIGHTON PARK
EROSION AND INUNDATION PROTECTION

DRAWING TITLE

GENERAL ARRANGEMENT
SHEET 4

DOCUMENT NUMBER	CN4600003899	ORIGINAL SHEET SIZE	A1	SCALES	1:500
CAD DRAWING FILE REF.	-				
TSD PROJECT FILE NUMBER				SHEET	1004



EXISTING ESTUARY EDGE STRUCTURE INVENTORY				
STRUCTURE ID	DESCRIPTION	LINEAR LENGTH (m)	AREA (m2)	DESIGN ACTION
IS30	CONCRETE WALL	37.3	75.1	REMOVE AND DISPOSE
IS29	WOODEN WALL	7.2	2.9	REMOVE AND DISPOSE
IS28	ROCK REVETMENT BOULDERS 0.4-0.6	10.5	11.1	REMOVE AND DISPOSE
IS27	CONCRETE WALL 14CM THICK WALL	21.7	38.4	REMOVE AND DISPOSE
IS26	CONCRETE WALL	14.2	19.8	REMOVE AND DISPOSE
IS25	INFORMAL STRUCTURE - ROCK REVETMENT BOULDERS 0.8-1M, COBBLE RAMP IN FORESHORE	34.6	40.7	REMOVE AND DISPOSE
IS24	CONCRETE AND BRICK WALL	20.5	4.1	REMOVE AND DISPOSE
NOTE: THE DESIGN ACTIONS ARE PRELIMINARY AND SUBJECT TO CHANGE DEPENDENT ON FINAL CONSTRUCTED ALIGNMENT, CHANGE IN SEAGRASS EXTENTS AND PRESENCE OF ASBESTOS CONTAINING MATERIAL				

- NOTES**
- ALL EXISTING SERVICES ARE INDICATIVE ONLY.
 - THE PROJECT EXTENTS ARE INDICATIVE AND TO BE CONFIRMED BY THE CONTRACTORS CONSTRUCTION METHODOLOGY.
 - THE PROJECT EXTENTS COVER THE FOOTPRINT OF CONSTRUCTION-PHASE ACTIVITIES FOR BULK EARTHWORKS INCLUDING TEMPORARY STOCKPILES AND CONSTRUCTION LAYDOWN AREAS ASSOCIATED WITH THE BUND AND EROSION PROTECTION WORKS.
 - REFER TO THE LANDSCAPING DRAWINGS FOR THE PROJECT BOUNDARY FOR PLANTING AND PATHS.
 - REFER TO THE LANDSCAPE DRAWINGS FOR EXISTING FENCES TO BE REMOVED AND REINSTATED.
 - REFER TO THE LANDSCAPE DRAWINGS FOR TREES REQUIRING REMOVAL.
 - POTHOLE INVESTIGATION OF ACTIVE SERVICES WITHIN THE BUND FOOTPRINT REQUIRED IN DETAILED DESIGN TO CONFIRM DEPTH OF SERVICE AND REQUIREMENT FOR AN IMPERMEABLE WATER STOP EITHER SIDE OF THE BUND FOOTPRINT.
 - THE CONTRACTOR SHALL IDENTIFY AND NOTIFY ENGINEER OF THE PRESENCE OF ABANDONED OR OUT OF SERVICE UTILITIES BENEATH THE BUND FOOTPRINT. FURTHER ACTION FOR AGREEMENT WITH THE ENGINEER.

LEGEND

EXISTING SERVICES

- POWER
- POWER POLE
- CHORUS
- ENABLE
- VODAFONE
- WATER
- ABANDONED WATER
- WATER METER
- VALVE
- HYDRANT
- SW PIPELINE / CHANNEL
- SW MH
- SW SINGLE SUMP
- SW DOUBLE SUMP
- SW TRIPLE SUMP
- SEWER MH
- SEWER LINE
- ABANDONED SEWER LINE

EXISTING FEATURES

- TOP OF BANK
- VEGETATION
- GATE
- FENCE
- EROSION PROTECTION AND BUND STRUCTURES
- SALT MARSH TO BE PROTECTED
- SALT MEADOW TO BE REMOVED
- SALT MEADOW TO BE PROTECTED
- EXISTING SEAGRASS TO BE PROTECTED
- EXISTING MIDDEN TO BE PROTECTED
- MHWS
- EXISTING TREE

DESIGN

- SW PIPELINE / CHANNEL
- SW SCRUFFY DOME
- PROJECT EXTENT
- GABION BASKETS

Christchurch City Council

DATUM	C.D.D.	DESIGNED	NAME	SIGNED	DATE	APPROVED
BENCH MK.		DES. REVIEW				FOR TENDER
RL		DRAWN				DATE
SURVEY		DRW. CHECK				SIGNED
SURVEY LB		FILE LOCATION	project\christchurch\cd\1005\1005.dwg			FOR CONSTRUCTION
DRAIN. REF.		IA271200-CD-DRG-1005.dwg				DATE
SAP WBS		ON 14/09/2023 BY SANDERS, NICK				SIGNED

CONSULTANT

PROJECT TITLE

CONSULTANT PROJECT REF.

CONSULTANT DRG. No.

REV.

CHRISTCHURCH CITY COUNCIL

SOUTHSHORE AND SOUTH NEW BRIGHTON PARK

EROSION AND INUNDATION PROTECTION

DRAWING TITLE

GENERAL ARRANGEMENT

SHEET 5

DOCUMENT NUMBER	CN4600003899	ORIGINAL SHEET SIZE	A1	SCALES	1:500
CAD DRAWING FILE REF.	-				
TSD PROJECT FILE NUMBER				SHEET	1005

SHEET LAYOUT PLAN

SCALE 1:500

SCALE 1:500(A1)

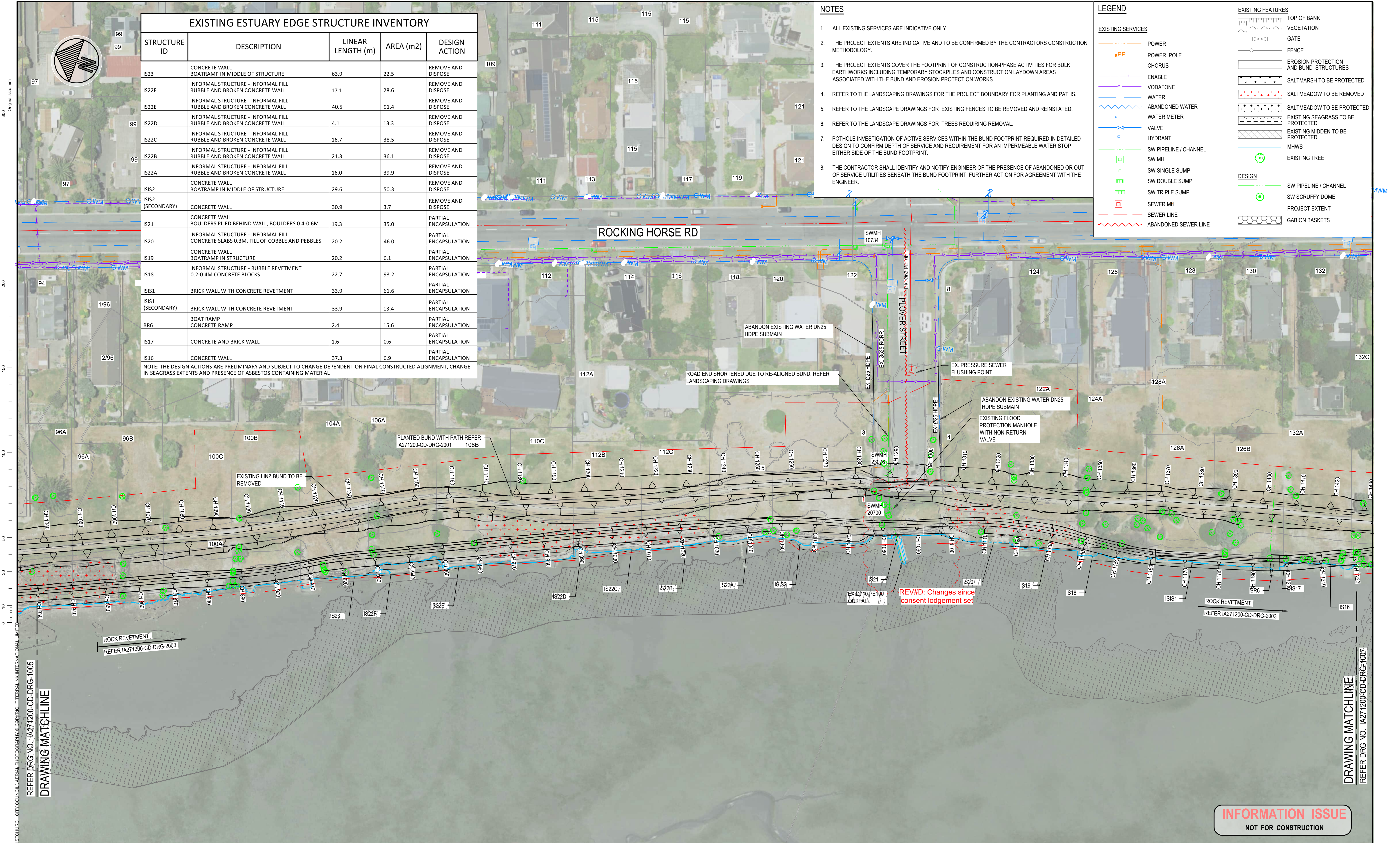
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INFORMATION ISSUE

NOT FOR CONSTRUCTION

D	MINOR CHANGES FOR CONSENT	DL	04/02/25
C	INFORMATION ISSUE	NS	07/11/23
B	INFORMATION ISSUE	JS	05/05/23
A	INFORMATION ISSUE	JS	13/04/22
ISSUE	AMENDMENTS	SIGNED	DATE



EXISTING ESTUARY EDGE STRUCTURE INVENTORY				
STRUCTURE ID	DESCRIPTION	LINEAR LENGTH (m)	AREA (m2)	DESIGN ACTION
IS23	CONCRETE WALL BOATRAMP IN MIDDLE OF STRUCTURE	63.9	22.5	REMOVE AND DISPOSE
IS22F	INFORMAL STRUCTURE - INFORMAL FILL RUBBLE AND BROKEN CONCRETE WALL	17.1	28.6	REMOVE AND DISPOSE
IS22E	INFORMAL STRUCTURE - INFORMAL FILL RUBBLE AND BROKEN CONCRETE WALL	40.5	91.4	REMOVE AND DISPOSE
IS22D	INFORMAL STRUCTURE - INFORMAL FILL RUBBLE AND BROKEN CONCRETE WALL	4.1	13.3	REMOVE AND DISPOSE
IS22C	INFORMAL STRUCTURE - INFORMAL FILL RUBBLE AND BROKEN CONCRETE WALL	16.7	38.5	REMOVE AND DISPOSE
IS22B	INFORMAL STRUCTURE - INFORMAL FILL RUBBLE AND BROKEN CONCRETE WALL	21.3	36.1	REMOVE AND DISPOSE
IS22A	INFORMAL STRUCTURE - INFORMAL FILL RUBBLE AND BROKEN CONCRETE WALL	16.0	39.9	REMOVE AND DISPOSE
ISIS2	CONCRETE WALL BOATRAMP IN MIDDLE OF STRUCTURE	29.6	50.3	REMOVE AND DISPOSE
ISIS2 (SECONDARY)	CONCRETE WALL	30.9	3.7	REMOVE AND DISPOSE
IS21	CONCRETE WALL BOULDERS PILED BEHIND WALL, BOULDERS 0.4-0.6M	19.3	35.0	PARTIAL ENCAPSULATION
IS20	INFORMAL STRUCTURE - INFORMAL FILL CONCRETE SLABS 0.3M, FILL OF COBBLE AND PEBBLES	20.2	46.0	PARTIAL ENCAPSULATION
IS19	CONCRETE WALL BOATRAMP IN STRUCTURE	20.2	6.1	PARTIAL ENCAPSULATION
IS18	INFORMAL STRUCTURE - RUBBLE REVETMENT 0.2-0.4M CONCRETE BLOCKS	22.7	93.2	PARTIAL ENCAPSULATION
ISIS1	BRICK WALL WITH CONCRETE REVETMENT	33.9	61.6	PARTIAL ENCAPSULATION
ISIS1 (SECONDARY)	BRICK WALL WITH CONCRETE REVETMENT	33.9	13.4	PARTIAL ENCAPSULATION
BR6	BOAT RAMP CONCRETE RAMP	2.4	15.6	PARTIAL ENCAPSULATION
IS17	CONCRETE AND BRICK WALL	1.6	0.6	PARTIAL ENCAPSULATION
IS16	CONCRETE WALL	37.3	6.9	PARTIAL ENCAPSULATION

NOTE: THE DESIGN ACTIONS ARE PRELIMINARY AND SUBJECT TO CHANGE DEPENDENT ON FINAL CONSTRUCTED ALIGNMENT, CHANGE IN SEAGRASS EXTENTS AND PRESENCE OF ASBESTOS CONTAINING MATERIAL

- NOTES**
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 - THE PROJECT EXTENTS ARE INDICATIVE AND TO BE CONFIRMED BY THE CONTRACTORS CONSTRUCTION METHODOLOGY.
 - THE PROJECT EXTENTS COVER THE FOOTPRINT OF CONSTRUCTION-PHASE ACTIVITIES FOR BULK EARTHWORKS INCLUDING TEMPORARY STOCKPILES AND CONSTRUCTION LAYDOWN AREAS ASSOCIATED WITH THE BUND AND EROSION PROTECTION WORKS.
 - REFER TO THE LANDSCAPING DRAWINGS FOR THE PROJECT BOUNDARY FOR PLANTING AND PATHS.
 - REFER TO THE LANDSCAPE DRAWINGS FOR EXISTING FENCES TO BE REMOVED AND REINSTATED.
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 - POTHOLE INVESTIGATION OF ACTIVE SERVICES WITHIN THE BUND FOOTPRINT REQUIRED IN DETAILED DESIGN TO CONFIRM DEPTH OF SERVICE AND REQUIREMENT FOR AN IMPERMEABLE WATER STOP EITHER SIDE OF THE BUND FOOTPRINT.
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LEGEND

EXISTING SERVICES

- POWER
- POWER POLE
- CHORUS
- ENABLE
- VODAFONE
- WATER
- ABANDONED WATER
- WATER METER
- VALVE
- HYDRANT
- SW PIPELINE / CHANNEL
- SW MH
- SW SINGLE SUMP
- SW DOUBLE SUMP
- SW TRIPLE SUMP
- SEWER MH
- SEWER LINE
- ABANDONED SEWER LINE

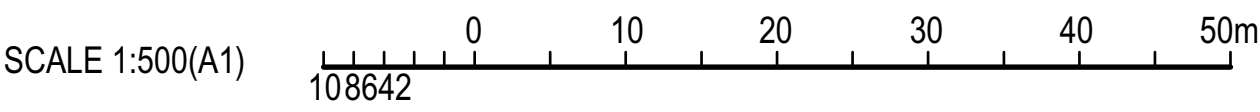
EXISTING FEATURES

- TOP OF BANK
- VEGETATION
- GATE
- FENCE
- EROSION PROTECTION AND BUND STRUCTURES
- SALT MARSH TO BE PROTECTED
- SALT MEADOW TO BE REMOVED
- SALT MEADOW TO BE PROTECTED
- EXISTING SEAGRASS TO BE PROTECTED
- EXISTING MIDDEN TO BE PROTECTED
- MHWS
- EXISTING TREE

DESIGN

- SW PIPELINE / CHANNEL
- SW SCRUFFY DOME
- PROJECT EXTENT
- GABION BASKETS

SHEET LAYOUT PLAN
SCALE 1:500



INFORMATION ISSUE
NOT FOR CONSTRUCTION

	DATUM	C.D.D.	NAME	SIGNED	DATE	APPROVED	CONSULTANT	PROJECT TITLE CHRISTCHURCH CITY COUNCIL SOUTHSHORE AND SOUTH NEW BRIGHTON PARK EROSION AND INUNDATION PROTECTION	DRAWING TITLE GENERAL ARRANGEMENT SHEET 6	DOCUMENT NUMBER CN4600003899	ORIGINAL SHEET SIZE A1	SCALES 1:500
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SAP WBS		ON 14/09/2023 BY SANDERS, NICK										



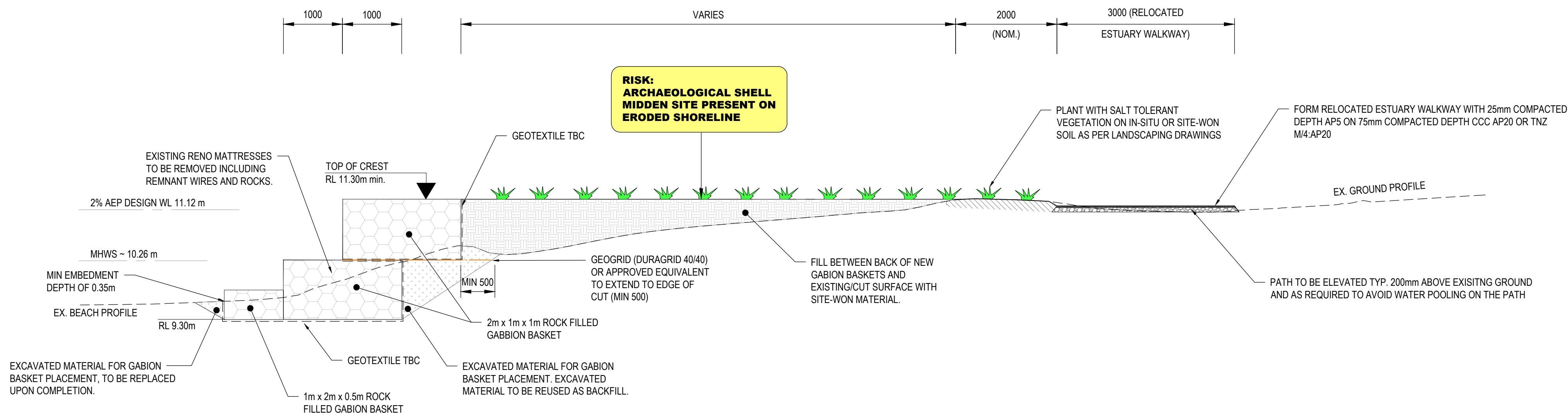
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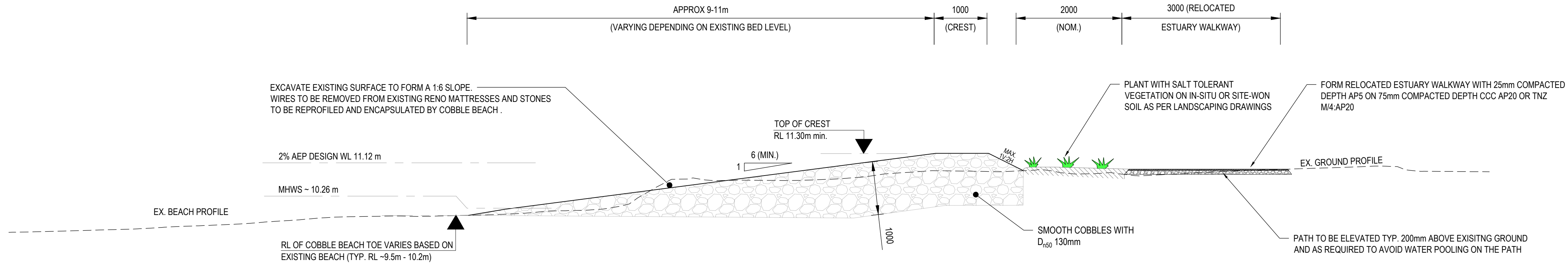
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B	INFORMATION ISSUE	NS	07/11/23
A	INFORMATION ISSUE	JS	13/04/22
ISSUE	AMENDMENTS	SIGNED	DATE

- NOTES
1. ALL LEVELS ARE IN TERMS OF CHRISTCHURCH DRAINAGE DATUM (CDD).
 2. ALL DIMENSIONS ARE IN MILLIMETERS UNLESS OTHERWISE NOTED.

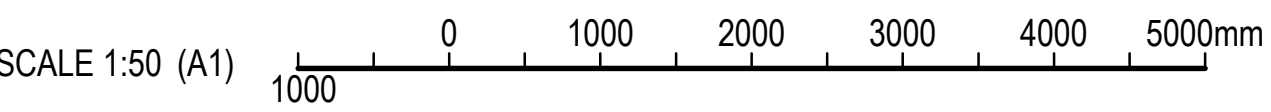


GABION BASKET TYPICAL CROSS SECTION (SOUTH NEW BRIGHTON PARK)
SCALE 1:50



COBBLE BEACH TYPICAL CROSS SECTION (SOUTH NEW BRIGHTON PARK)
SCALE 1:50

INFORMATION ISSUE
NOT FOR CONSTRUCTION



DATUM	C.D.D.	DESIGNED	NAME	SIGNED	DATE
BENCH MK.		DES. REVIEW			
RL		DRAWN			
SURVEY		DRW. CHECK			
SURVEY LB		FILE LOCATION	project\relief\jacobson_sap2023		
DRAIN. REF.		IA271200-CD-DRG-2002.dwg			
SAP WBS		PRINTED ON 18/09/2019 BY SANDERS, NICK			

APPROVED	
FOR TENDER	
DATE	SIGNED
FOR CONSTRUCTION	
DATE	SIGNED

CONSULTANT

Jacobs

CHRISTCHURCH, NEW ZEALAND Web: www.jacobs.com

CONSULTANT PROJECT REF.

IA271200

CONSULTANT DRG. No.

IA271200-0000-CD-DRG-2002

REV.

C

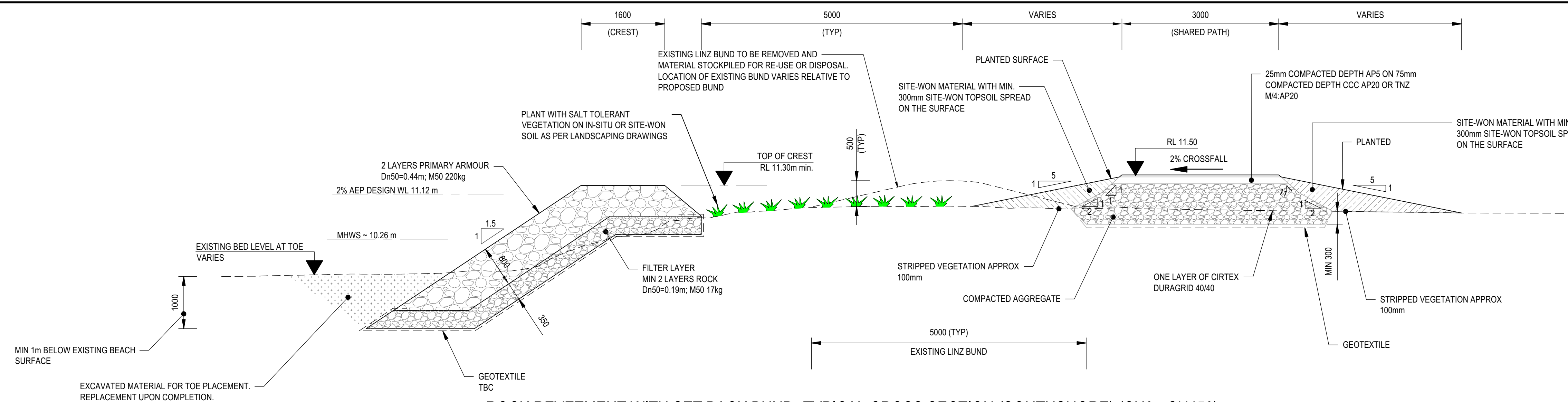
PROJECT TITLE

**CHRISTCHURCH CITY COUNCIL
SOUTHSHORE AND SOUTH NEW BRIGHTON PARK
EROSION AND INUNDATION PROTECTION**

DRAWING TITLE

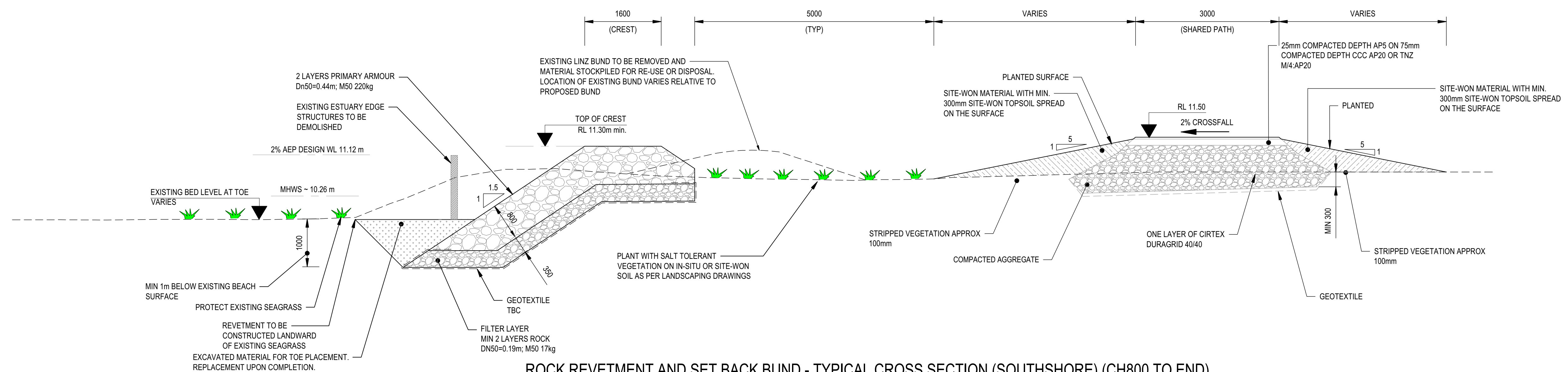
**TYPICAL CROSS SECTION
SHEET 2**

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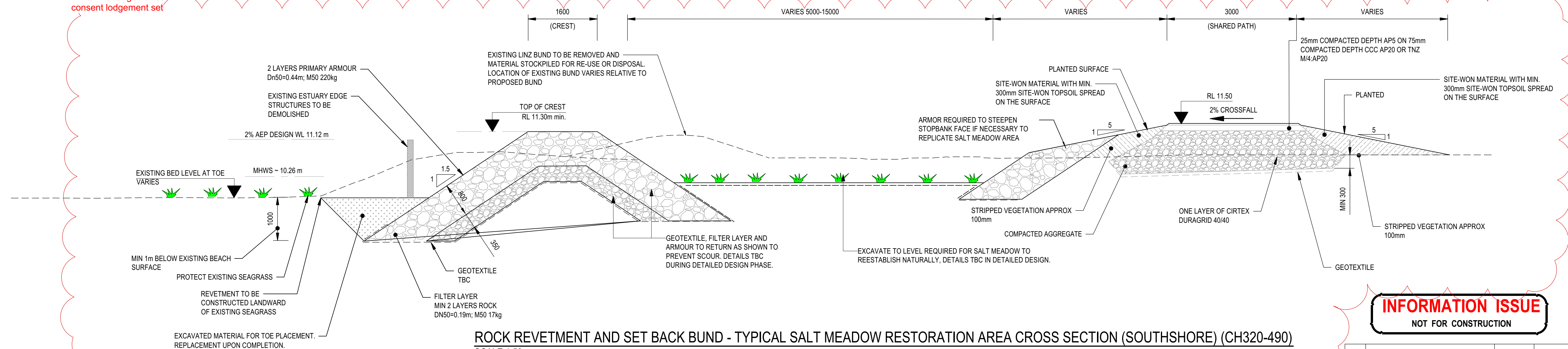
- ## NOTES
1. ALL LEVELS ARE IN TERMS OF CHRISTCHURCH DRAINAGE DATUM (CDD).
 2. ALL DIMENSIONS ARE IN MILLIMETERS UNLESS OTHERWISE NOTED.
 3. REFER TO LANDSCAPING DRAWINGS FOR PLANTING OF THE BUND SIDE SLOPES

ROCK REVETMENT WITH SET BACK BUND- TYPICAL CROSS SECTION (SOUTHSHORE) (CH0 - CH450)
SCALE 1:50



ROCK REVETMENT AND SET BACK BUND - TYPICAL CROSS SECTION (SOUTHSHORE) (CH800 TO END)
SCALE 1:50

REV#D: Changes since
consent lodgement set



ROCK REVETMENT AND SET BACK BUND - TYPICAL SALT MEADOW RESTORATION AREA CROSS SECTION (SOUTHSHORE) (CH320-490)
SCALE 1:50

INFORMATION ISSUE
NOT FOR CONSTRUCTION

D	MINOR CHANGES FOR CONSENT	DL	04/02/25
C	INFORMATION ISSUE	NS	07/11/23
B	INFORMATION ISSUE	JS	05/05/23
A	INFORMATION ISSUE	JS	13/04/22
ISSUE	AMENDMENTS	SIGNED	DATE

DATE		C.D.D.		NAME		SIGNED	DATE	APPROVED	
BENCH MK.		DESIGNED						FOR TENDER	
RL		DES. REVIEW						DATE	SIGNED
SURVEY		DRAWN							
SURVEY LB		DRW. CHECK							
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SAP WBS		ON 18/09/2019 BY SANDERS, NICK							
								FOR CONSTRUCTION	
								DATE	SIGNED

PROJECT TITLE

CHRISTCHURCH CITY COUNCIL
SOUTHSHORE AND SOUTH NEW BRIGHTON PARK
EROSION AND INUNDATION PROTECTION

DRAWING TITLE

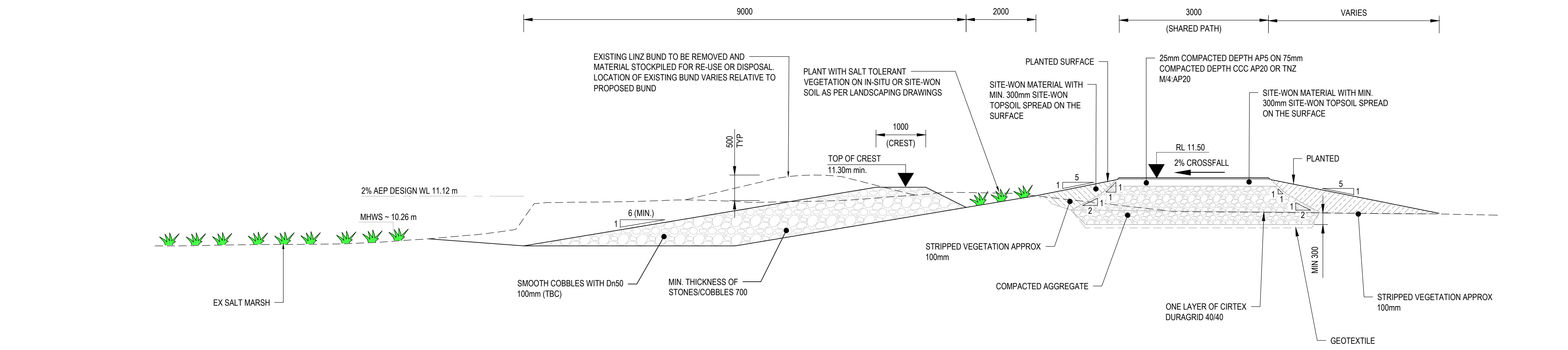
TYPICAL CROSS SECTION
SHEET 3

DOCUMENT NUMBER	ORIGINAL SHEET SIZE	SCALES
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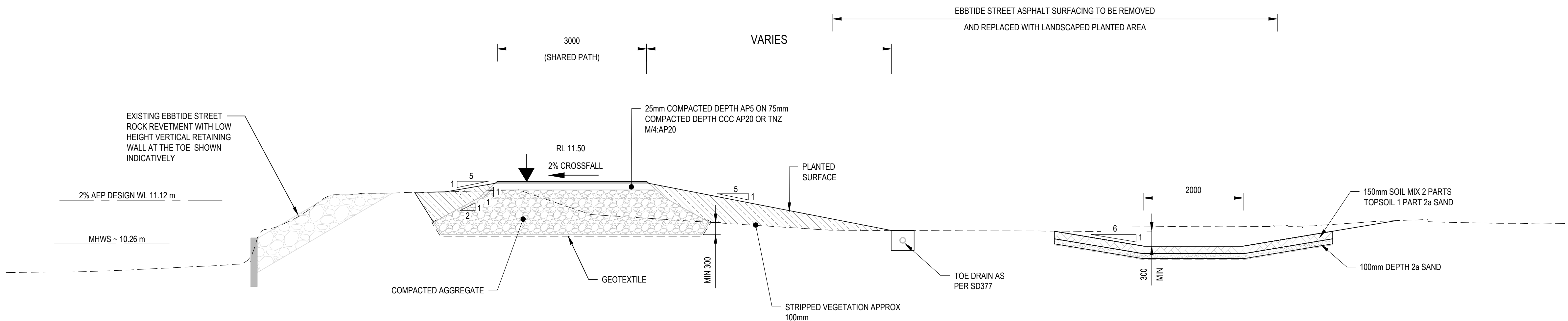
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Original size mm

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- NOTES
1. ALL LEVELS ARE IN TERMS OF CHRISTCHURCH DRAINAGE DATUM (CDD).
 2. ALL DIMENSIONS ARE IN MILLIMETERS UNLESS OTHERWISE NOTED.
 3. REFER TO LANDSCAPING DRAWINGS FOR PLANTING OF THE BUND SIDE SLOPES



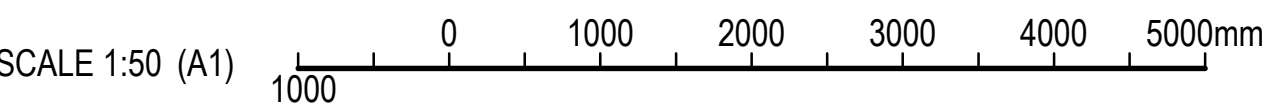
COBBLE BEACH WITH SET BACK BUND- TYPICAL DETAIL (SOUTHSHORE)
SCALE 1:50



EBBTIDE STREET BUND - TYPICAL DETAIL
SCALE 1:50

EBBTIDE STREET SWALE - TYPICAL DETAIL
SCALE 1:50

INFORMATION ISSUE
NOT FOR CONSTRUCTION



Christchurch City Council

DATUM	C.D.D.	DESIGNED	NAME	SIGNED	DATE
BENCH MK.		DES. REVIEW			
RL		DRAWN			
SURVEY		DRW. CHECK			
SURVEY LB		FILE LOCATION	project\rel\jacobson_dr12.m		
DRAIN REF.		IA271200-CD-DRG-2004.dwg			
SAP WBS		PRINTED ON 18/09/2019 BY SANDERS, NICK			

APPROVED FOR TENDER	
DATE	SIGNED
FOR CONSTRUCTION	
DATE	SIGNED

CONSULTANT

Jacobs

CHRISTCHURCH, NEW ZEALAND Web: www.jacobs.com

CONSULTANT PROJECT REF.

IA271200

CONSULTANT DRG. No.

IA271200-0000-CD-DRG-2004

REV.

C

PROJECT TITLE

CHRISTCHURCH CITY COUNCIL SOUTHSHORE AND SOUTH NEW BRIGHTON PARK EROSION AND INUNDATION PROTECTION

DRAWING TITLE

TYPICAL CROSS SECTION SHEET 4

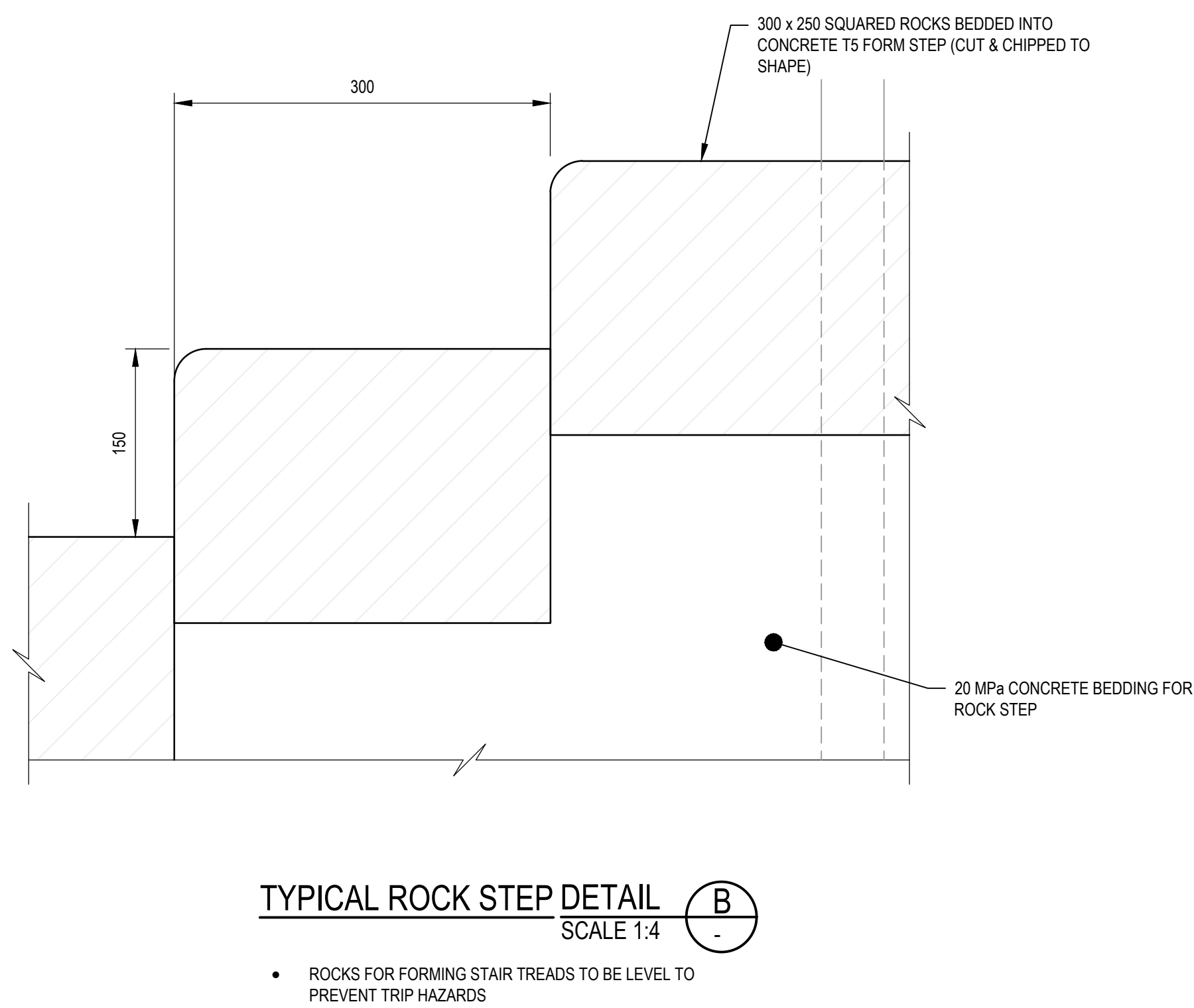
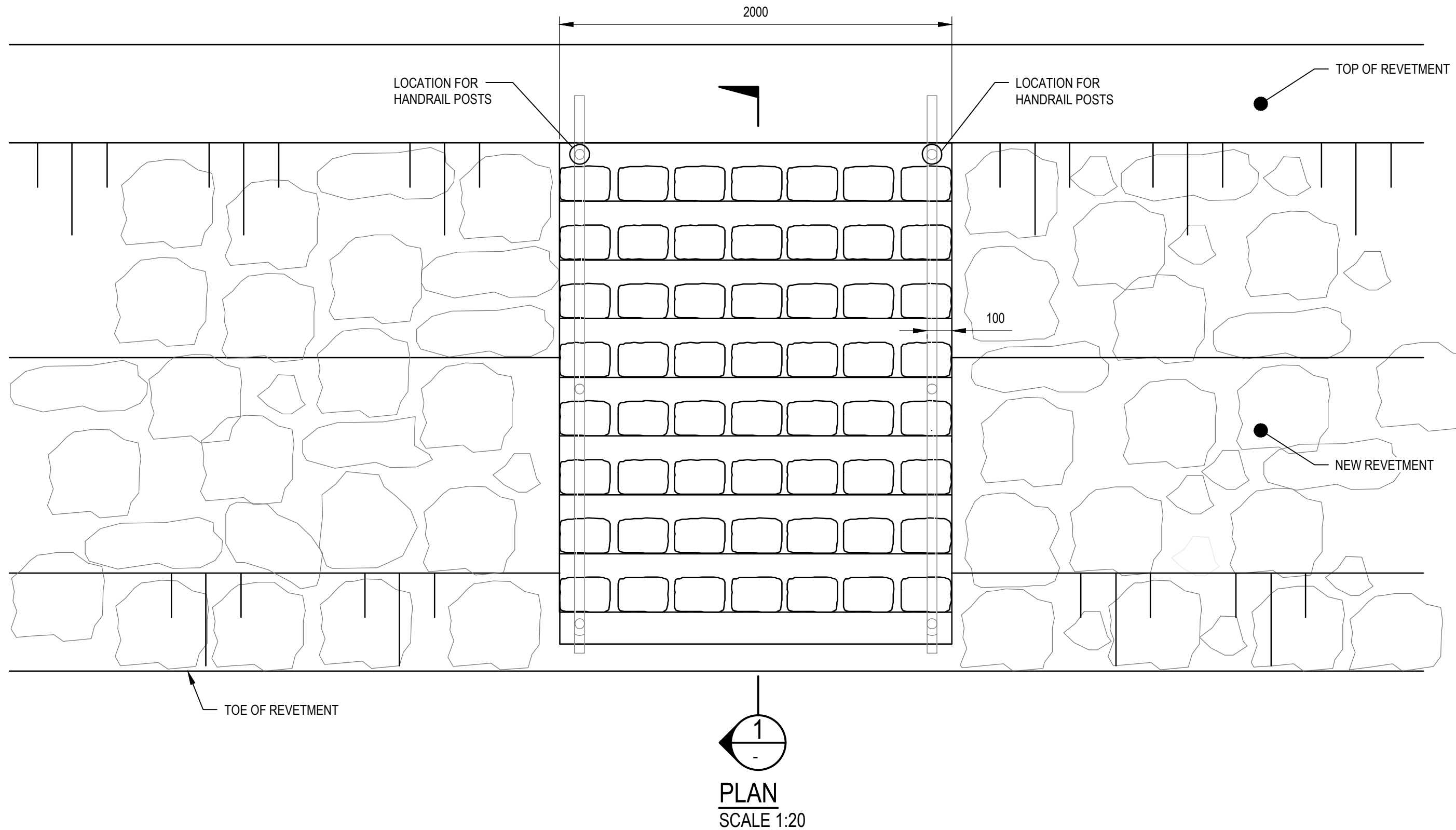
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CAD DRAWING FILE REF.	-				
TSD PROJECT FILE NUMBER				SHEET	2004



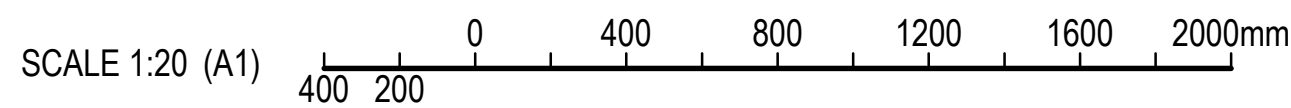
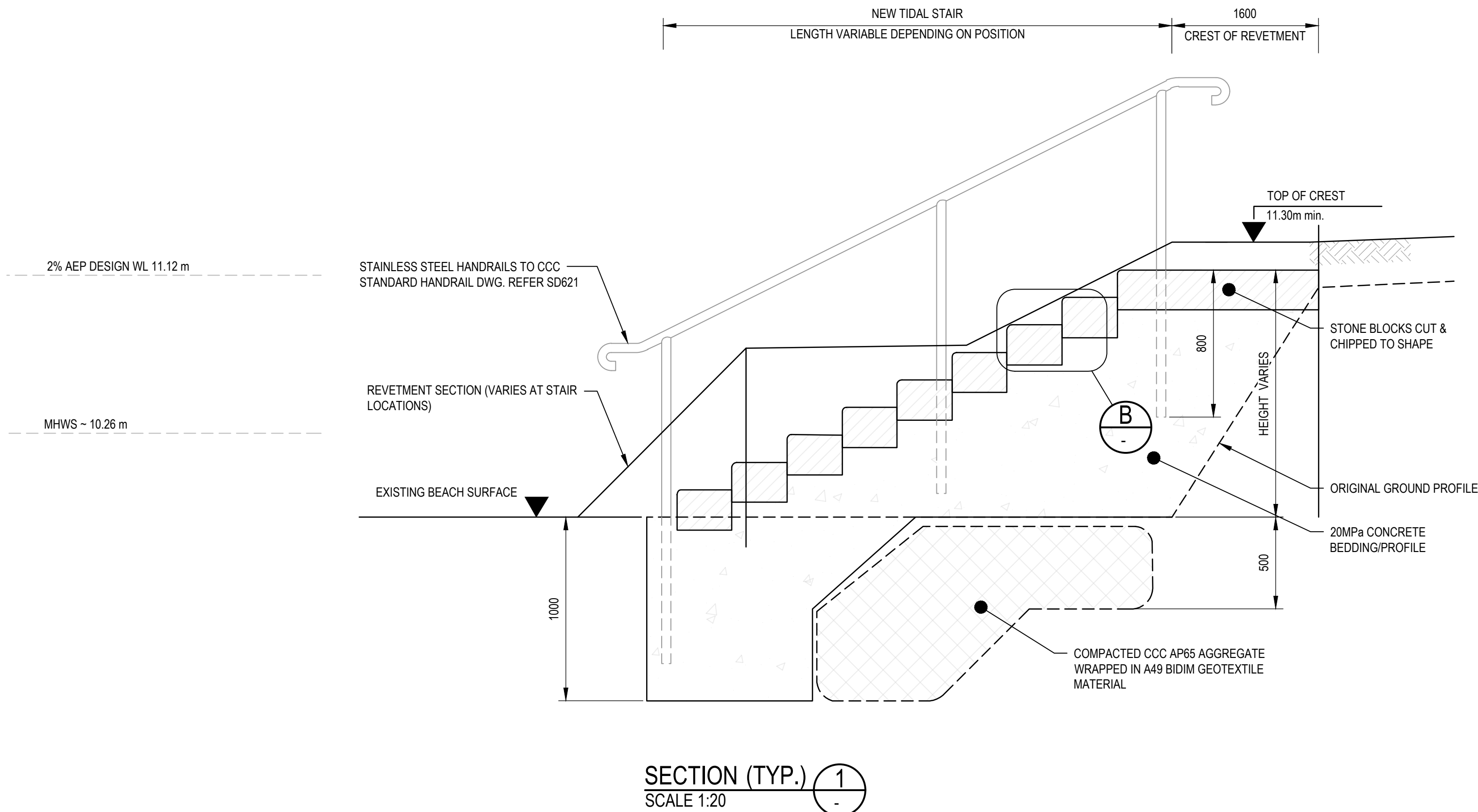
INFORMATION ISSUE
NOT FOR CONSTRUCTION

D	INFORMATION ISSUE	EVP	03/07/24
C	INFORMATION ISSUE	NS	07/11/23
B	INFORMATION ISSUE	JS	05/05/23
A	INFORMATION ISSUE	JS	13/04/22
ISSUE	AMENDMENTS	SIGNED	DATE

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100
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- NOTES
- ALL LEVELS ARE IN TERMS OF CHRISTCHURCH DRAINAGE DATUM (CDD).
 - ALL DIMENSIONS ARE IN MILLIMETERS UNLESS OTHERWISE NOTED.
 - ROCK TYPE SAME AS REVETMENT RIP RAP.



INFORMATION ISSUE
NOT FOR CONSTRUCTION

B	INFORMATION ISSUE	JS	09/11/23
A	INFORMATION ISSUE	JS	13/04/22
ISSUE	AMENDMENTS	SIGNED	DATE



DATUM	C.D.D.	DESIGNED	NAME	SIGNED	DATE
BENCH MK.		DES. REVIEW			
RL		DRAWN			
SURVEY		DRW. CHECK			
SURVEY LB		FILE LOCATION	project\terralink\jacobcs_nz_nz		
DRAIN REF.		IA271200-CD-DRG-4001.dwg			
SAP WBS		PRINTED ON 18/09/2019 BY SANDERS, NICK			

APPROVED	FOR TENDER
DATE	SIGNED
FOR CONSTRUCTION	
DATE	SIGNED

CONSULTANT	Jacobs		
	CHRISTCHURCH, NEW ZEALAND Web: www.jacobs.com		
CONSULTANT PROJECT REF.	IA271200	CONSULTANT DRG. No.	IA271200-CD-DRG-4001
REV.	B		

PROJECT TITLE	CHRISTCHURCH CITY COUNCIL SOUTHSHORE AND SOUTH NEW BRIGHTON PARK EROSION AND INUNDATION PROTECTION
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DRAWING TITLE	ESTUARY ACCESS TYPICAL DETAILS
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DOCUMENT NUMBER	CN4600003899	ORIGINAL SHEET SIZE	A1	SCALES	AS SHOWN
CAD DRAWING FILE REF.					
TSD PROJECT FILE NUMBER		SHEET	4001		