

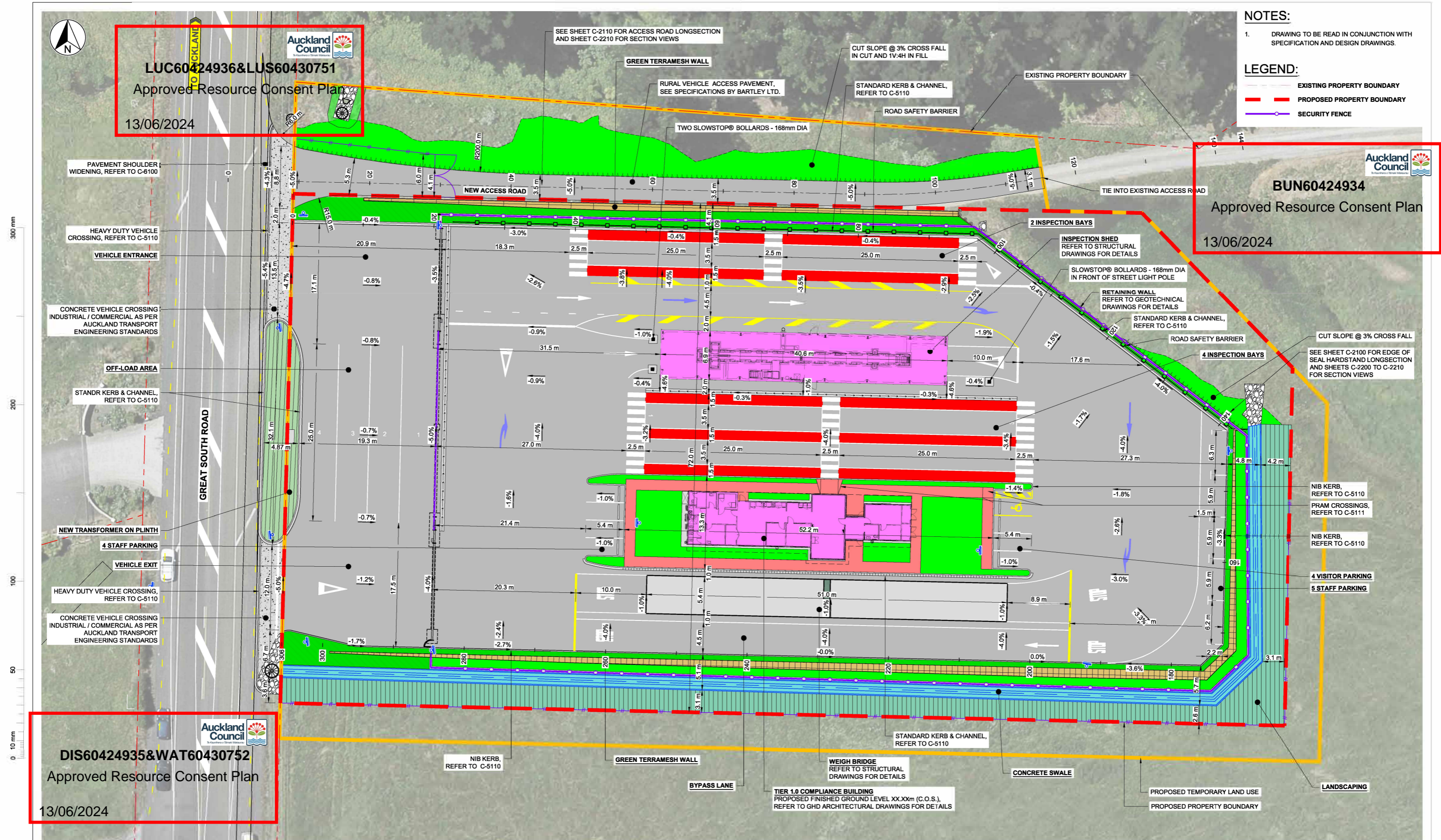


LUC60424936&LUS60430751
 Approved Resource Consent Plan
 13/06/2024

NOTES:
 1. DRAWING TO BE READ IN CONJUNCTION WITH SPECIFICATION AND DESIGN DRAWINGS.

LEGEND:
 - - - - - EXISTING PROPERTY BOUNDARY
 - - - - - PROPOSED PROPERTY BOUNDARY
 - - - - - SECURITY FENCE

BUN60424934
 Approved Resource Consent Plan
 13/06/2024



DETAILED LAYOUT PLAN
 SCALE: 1:250

REVISION	AMENDMENT	APPROVED	DATE
0A	ISSUED FOR TENDER	F.R.	2023-11-13
0B	ISSUED FOR RESOURCE CONSENT - S92 RESPONSE	F.R.	2024-01-19



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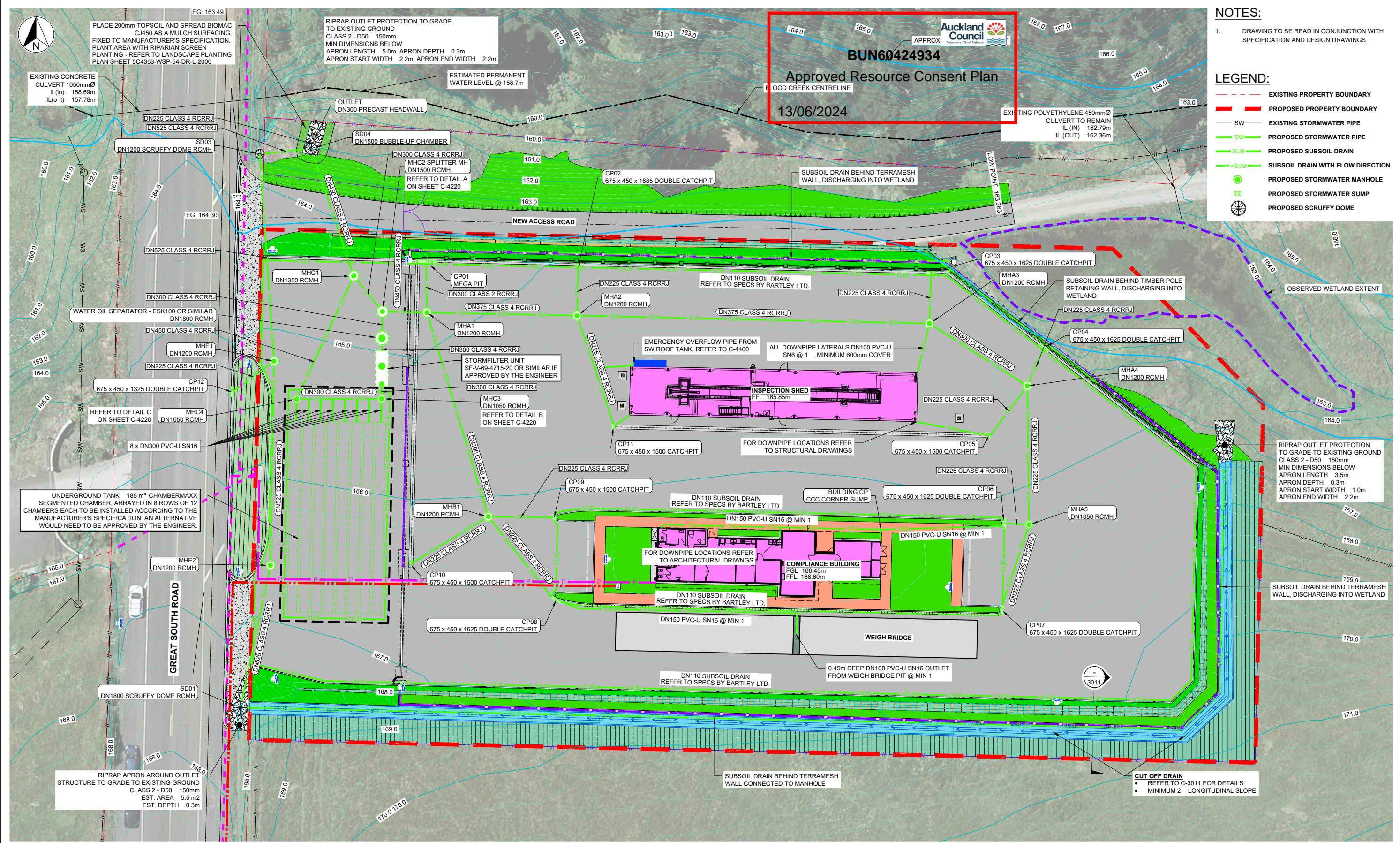
CIVIL

SCALES	DESIGNED	APPROVED
1:250 (A1), 1:500 (A3)	P. FIEREK	F. RAHMAN
DRAWN	DESIGN VERIFIED	APPROVED DATE
P. FIEREK	C. NELLES	2024-01-19

FOR RESOURCE CONSENT

PROJECT
WAKA KOTAHI NZ TRANSPORT AGENCY
BOMBAY, AUCKLAND
WEIGH RIGHT PROGRAMME - BOMBAY CVSC
 TITLE
CVSC
DETAILED LAYOUT PLAN
 WSP PROJECT NO. (SUB-PROJECT)
 5C4353-WSP-54-DR-

SHEET NO.
 C-2001
 REVISION
 0B



- NOTES:**
- DRAWING TO BE READ IN CONJUNCTION WITH SPECIFICATION AND DESIGN DRAWINGS.
- LEGEND:**
- EXISTING PROPERTY BOUNDARY
 - PROPOSED PROPERTY BOUNDARY
 - EXISTING STORMWATER PIPE
 - PROPOSED STORMWATER PIPE
 - PROPOSED SUBSOIL DRAIN
 - PROPOSED SUBSOIL DRAIN WITH FLOW DIRECTION
 - PROPOSED STORMWATER MANHOLE
 - PROPOSED STORMWATER SUMP
 - PROPOSED SCRUFFY DOME

Auckland Council
BUN60424934
Approved Resource Consent Plan
13/06/2024

STORMWATER DRAINAGE PLAN
 SCALE: 1:250

1:250 @ A1
 1:500 @ A3

REVISION	AMENDMENT	APPROVED	DATE
0A	ISSUED FOR TENDER	F.R.	2023-11-13
0B	ISSUED FOR RESOURCE CONSENT - S92 RESPONSE	F.R.	2024-01-19



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CIVIL

SCALES	DESIGNED	APPROVED	ORIGINAL SIZE
1:250 (A1), 1:500 (A3)			A1
DRAWN	P. FIEREK	APPROVED	F. RAHMAN
DRAWING VERIFIED	C. NELLES	DESIGN VERIFIED	R. GORDON
		APPROVED DATE	2024-01-19

FOR RESOURCE CONSENT

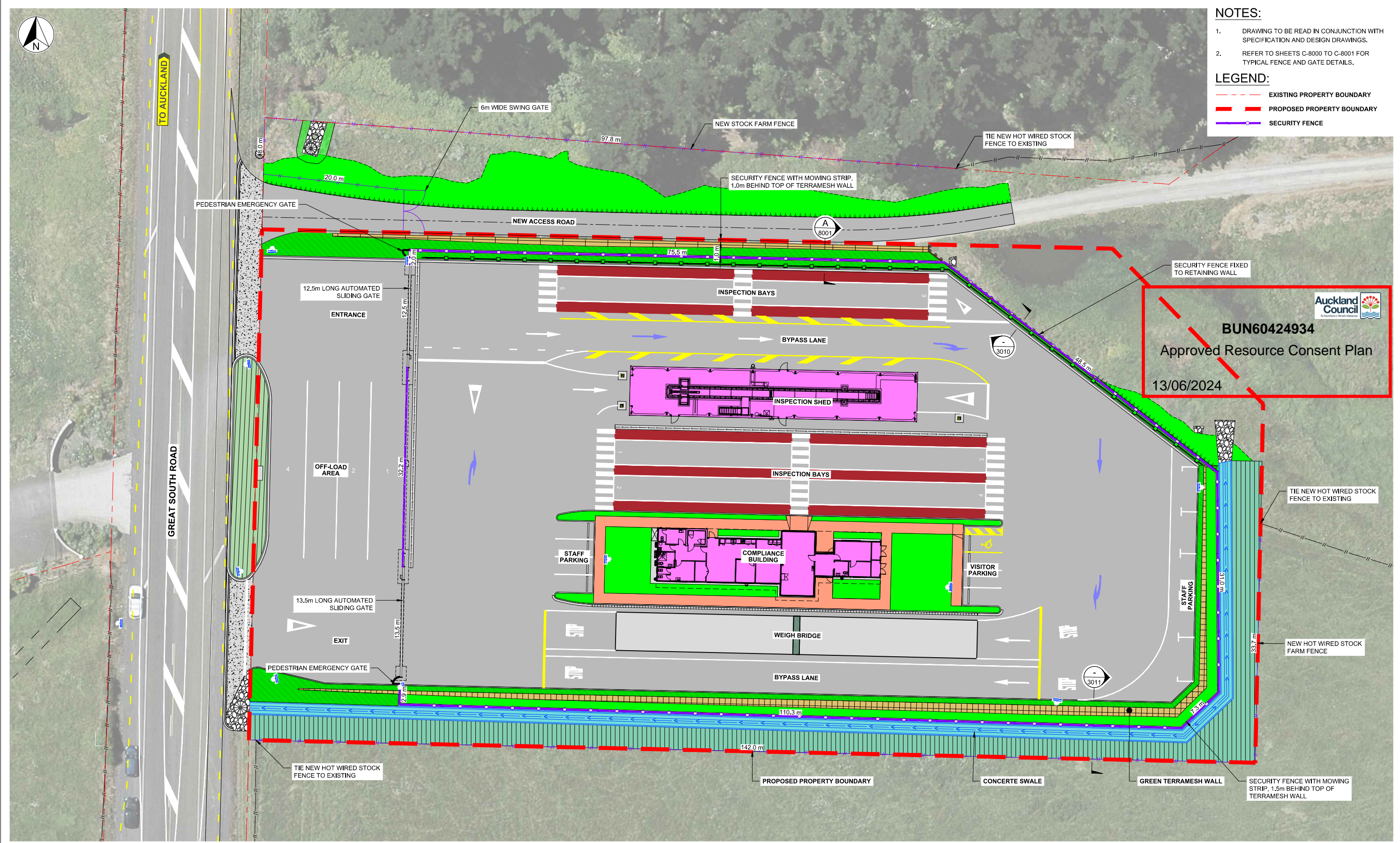
PROJECT	TITLE	WSP PROJECT NO. (SUB-PROJECT)	SHEET NO.	REVISION
WAKA KOTAHI NZ TRANSPORT AGENCY BOMBAY, AUCKLAND WEIGH RIGHT PROGRAMME - BOMBAY CVSC	CVSC STORMWATER DRAINAGE PLAN	5C4353-WSP-54-DR-	C-4200	0C



- NOTES:**
- DRAWING TO BE READ IN CONJUNCTION WITH SPECIFICATION AND DESIGN DRAWINGS.
 - REFER TO SHEETS C-8000 TO C-8001 FOR TYPICAL FENCE AND GATE DETAILS.

- LEGEND:**
- EXISTING PROPERTY BOUNDARY
 - PROPOSED PROPERTY BOUNDARY
 - SECURITY FENCE

300 mm
200
100
50
0 10 mm



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FENCING PLAN
SCALE: 1:250

1:250 @ A1
1:500 @ A3

REVISION	AMENDMENT	APPROVED	DATE
0A	ISSUED FOR TENDER	F.R.	2023-11-13



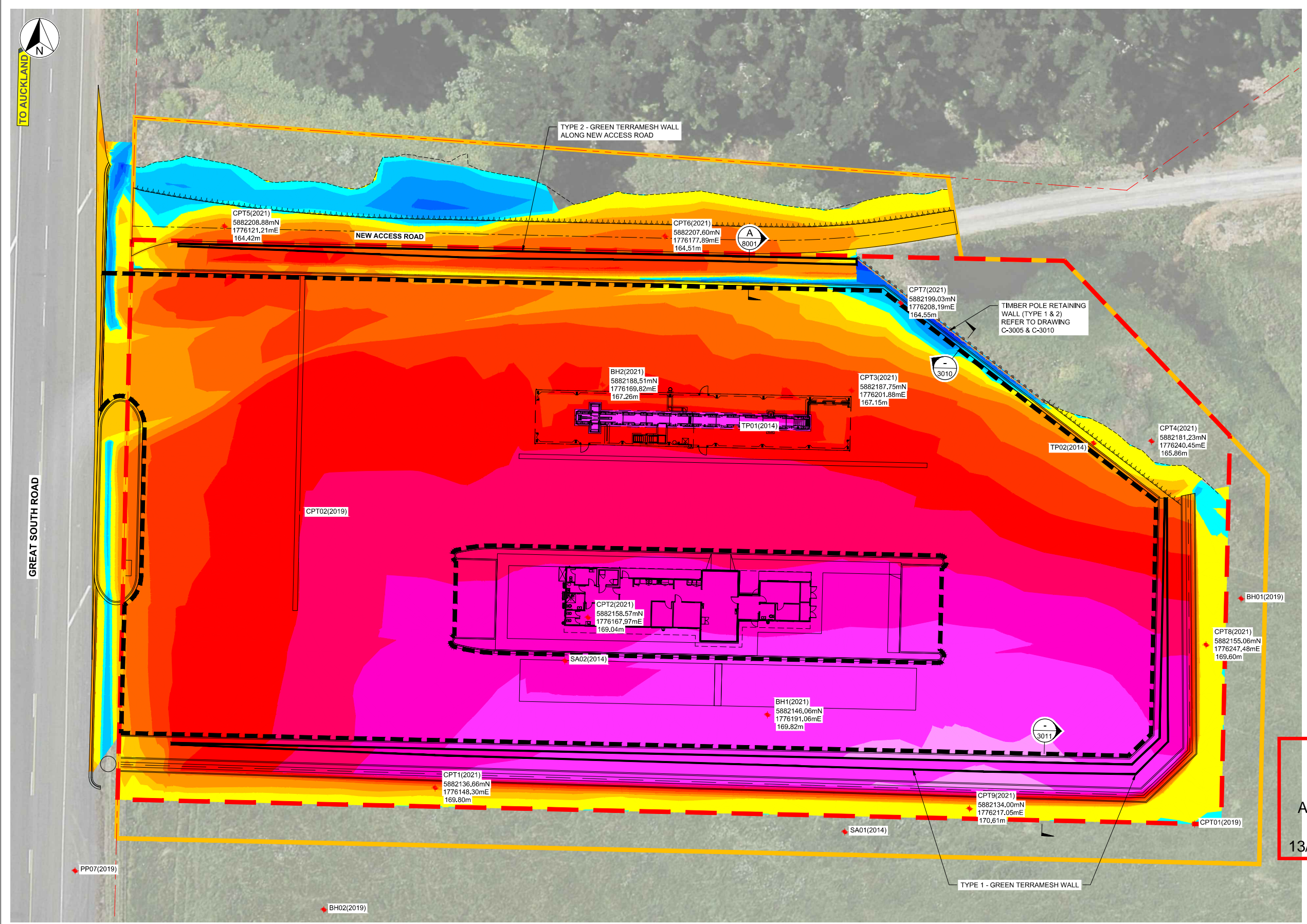
wsp
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CIVIL

SCALES		ORIGINAL SIZE
1:250 (A1)	1:500 (A3)	A1
DRAWN	DESIGNED	APPROVED
P. FIEREK	P. FIEREK	F. RAHMAN
DRAWING VERIFIED	DESIGN VERIFIED	APPROVED DATE
C. NELLES	C. NELLES	2023-11-13

TENDER

PROJECT		SHEET NO.	REVISION
WAKA KOTAHI NZ TRANSPORT AGENCY BOMBAY, AUCKLAND WEIGH RIGHT PROGRAMME - BOMBAY CVSC		C-1300	0A
TITLE			
CVSC FENCING PLAN			
WSP PROJECT NO. (SUB-PROJECT)			
5C4353-WSP-54-DR-			



NOTES:

- THIS DRAWING TO BE READ IN CONJUNCTION WITH SPECIFICATIONS AND DESIGN DRAWINGS.
- CUT AND FILL VOLUMES ARE FROM EXISTING GROUND LEVEL TO SUBGRADE LEVEL.
- SUBGRADE LEVELS WITHIN PAVED AREAS ARE BASED ON PAVEMENT DESIGN BY BARTLEY LTD. EARTHWORKS UNDER BUILDINGS SHOWN HERE ARE TO UNDERSIDE SLAB AND FOUNDATIONS. EARTHWORKS TO BE CONFIRMED ON SITE WITH ENGINEER.


Cut/Fill Table			
Depth Range (-Cut +Fill)	Area (m ²)	Volume (m ³)	Color
-4.2 - -4.0	119	6	
-4.0 - -3.5	1439	378	
-3.5 - -3.0	1336	1120	
-3.0 - -2.5	1584	1848	
-2.5 - -2.0	1599	2620	
-2.0 - -1.5	1214	3376	
-1.5 - -1.0	920	3877	
-1.0 - -0.5	750	4297	
-0.5 - -0.3	404	1833	
-0.3 - 0.0	722	2896	
0.0 - +0.2	155	65	
+0.2 - +0.5	238	78	
+0.5 - +1.0	94	34	
+1.0 - +1.5	22	6	
+1.5 - +2.0	6	2	
+2.0 - +2.2	0	0	

CUT / FILL VOLUMES			
	AREA [m ²]	CUT [m ³]	FILL [m ³]
TOTAL CUT / FILL FROM EXISTING GROUND LEVEL TO PROPOSED SUBGRADE LEVEL	11190	22252	184

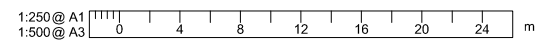
SUBSOIL DRAIN NOTES:

- REFER TO BARTLEY LTD. PAVEMENT DESIGN REPORT FOR SUBSOIL DRAIN DETAILS AND SPECIFICATIONS.

- LEGEND:**
- SUBSOIL DRAIN SURROUNDING PERMEABLE AREAS
 - BH01 BOREHOLE COORDINATES R.L.
 - CPT1 CONE PENETRATION TEST COORDINATES R.L.
 - PP01 POCKET PENETROMETER TEST
 - SA01 SOAKAGE TESTING
 - TP01 TEST PIT


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 13/06/2024

CVSC - EARTHWORKS PLAN
SCALE: 1:250



REVISION	AMENDMENT	APPROVED	DATE
0A	ISSUED FOR TENDER	F.R.	2023-08-25



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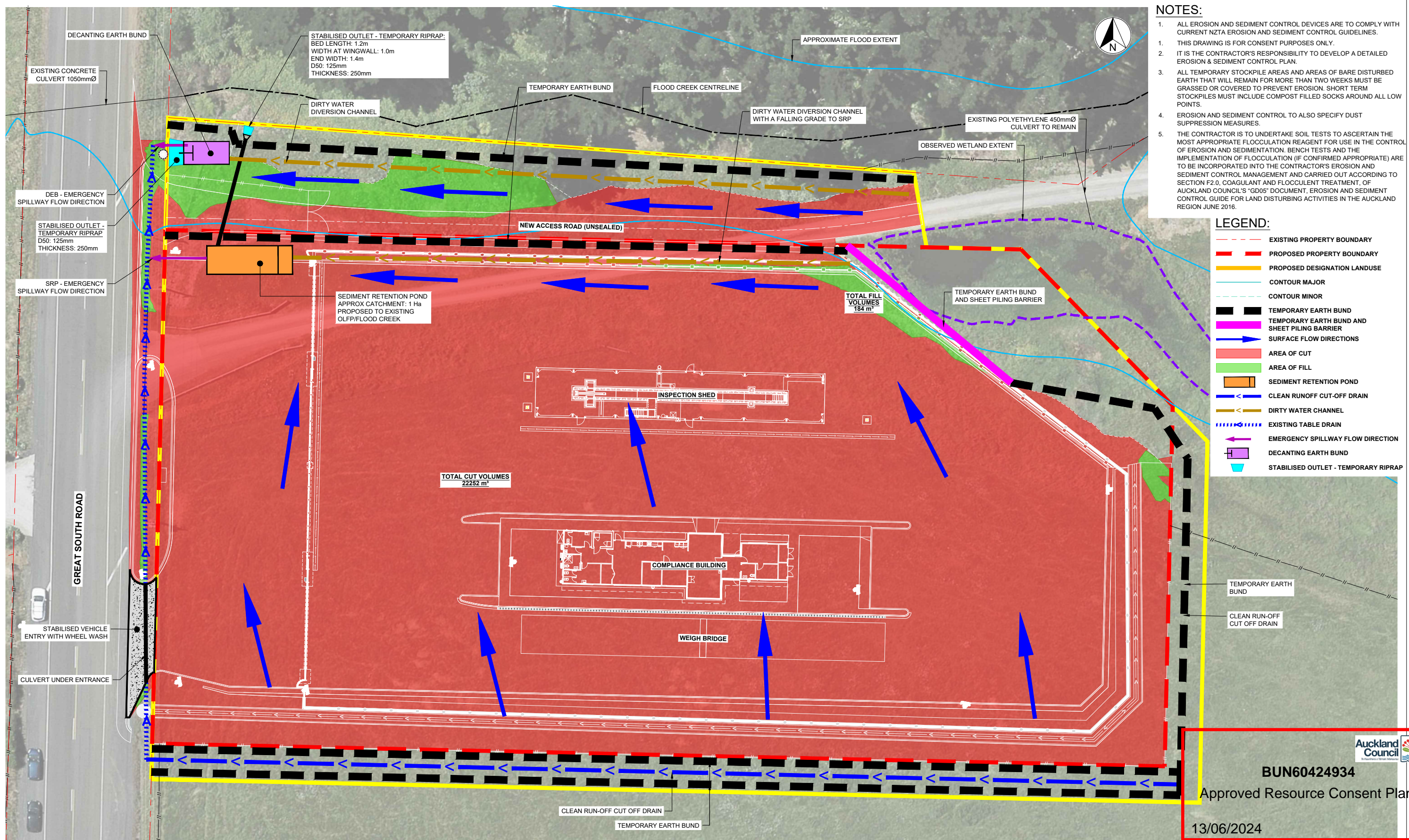
PO Box 12-003
Wellington 6144
New Zealand

CIVIL

SCALES		ORIGINAL SIZE
1:250 (A1), 1:500 (A3)		A1
DRAWN	DESIGNED	APPROVED
P. FIEREK	P. FIEREK	F. RAHMAN
DRAWING VERIFIED	DESIGN VERIFIED	APPROVED DATE
C. NELLES	S. ARUMUGAM	2023-08-25

TENDER

PROJECT	WAKA KOTAHI NZ TRANSPORT AGENCY BOMBAY, AUCKLAND WEIGH RIGHT PROGRAMME - BOMBAY CVSC
TITLE	CVSC EARTHWORKS PLAN
WSP PROJECT NO. (SUB-PROJECT)	5C4353-WSP-54-DR-
SHEET NO.	C-3000
REVISION	0A



- NOTES:**
1. ALL EROSION AND SEDIMENT CONTROL DEVICES ARE TO COMPLY WITH CURRENT NZTA EROSION AND SEDIMENT CONTROL GUIDELINES.
 2. THIS DRAWING IS FOR CONSENT PURPOSES ONLY.
 3. IT IS THE CONTRACTOR'S RESPONSIBILITY TO DEVELOP A DETAILED EROSION & SEDIMENT CONTROL PLAN.
 4. ALL TEMPORARY STOCKPILE AREAS AND AREAS OF BARE DISTURBED EARTH THAT WILL REMAIN FOR MORE THAN TWO WEEKS MUST BE GRASSED OR COVERED TO PREVENT EROSION. SHORT TERM STOCKPILES MUST INCLUDE COMPOST FILLED SOCKS AROUND ALL LOW POINTS.
 5. EROSION AND SEDIMENT CONTROL TO ALSO SPECIFY DUST SUPPRESSION MEASURES.
 6. THE CONTRACTOR IS TO UNDERTAKE SOIL TESTS TO ASCERTAIN THE MOST APPROPRIATE FLOCCULATION REAGENT FOR USE IN THE CONTROL OF EROSION AND SEDIMENTATION. BENCH TESTS AND THE IMPLEMENTATION OF FLOCCULATION (IF CONFIRMED APPROPRIATE) ARE TO BE INCORPORATED INTO THE CONTRACTOR'S EROSION AND SEDIMENT CONTROL MANAGEMENT AND CARRIED OUT ACCORDING TO SECTION F2.0, COAGULANT AND FLOCCULENT TREATMENT, OF AUCKLAND COUNCIL'S "GD05" DOCUMENT, EROSION AND SEDIMENT CONTROL GUIDE FOR LAND DISTURBING ACTIVITIES IN THE AUCKLAND REGION JUNE 2016.

- LEGEND:**
- EXISTING PROPERTY BOUNDARY
 - PROPOSED PROPERTY BOUNDARY
 - PROPOSED DESIGNATION LANDUSE
 - CONTOUR MAJOR
 - CONTOUR MINOR
 - TEMPORARY EARTH BUND
 - TEMPORARY EARTH BUND AND SHEET PILING BARRIER
 - SURFACE FLOW DIRECTIONS
 - AREA OF CUT
 - AREA OF FILL
 - SEDIMENT RETENTION POND
 - CLEAN RUNOFF CUT-OFF DRAIN
 - DIRTY WATER CHANNEL
 - EXISTING TABLE DRAIN
 - EMERGENCY SPILLWAY FLOW DIRECTION
 - DECANTING EARTH BUND
 - STABILISED OUTLET - TEMPORARY RIPRAP

300 mm
200
100
50
0 10 mm

INDICATIVE EROSION SEDIMENT CONTROL PLAN 2
SCALE: 1:250

1:250 @ A1
1:500 @ A3

REVISION	AMENDMENT	APPROVED	DATE
0A	ISSUED FOR TENDER	F.R.	2023-11-13
0B	ISSUED FOR TENDER	F.R.	2024-03-12
0C	ISSUED FOR TENDER	F.R.	17/04/2024



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New Zealand

CIVIL

SCALES		ORIGINAL SIZE
1:250 (A1)	1:500 (A3)	A1
DRAWN	DESIGNED	APPROVED
P. FIEREK	P. FIEREK	F. RAHMAN
DRAWING VERIFIED	DESIGN VERIFIED	APPROVED DATE
S. SAMAY	S. SAMAY	2024-12-03

TENDER


PROJECT		
WAKA KOTAHI NZ TRANSPORT AGENCY		
BOMBAY, AUCKLAND		
WEIGH RIGHT PROGRAMME - BOMBAY CVSC		
TITLE		
INDICATIVE EROSION SEDIMENT CONTROL PLAN		
WSP PROJECT NO. (SUB-PROJECT)	SHEET NO.	REVISION
5C4353-WSP-54-DR-	C-3100	0C

Auckland Council
BUN60424934
Approved Resource Consent Plan
13/06/2024



- LEGEND**
- DESIGNATION BOUNDARY
 - PROPERTY BOUNDARY
 - SECURITY FENCE
 - PERMANENT FARM FENCE
 - EXISTING STOCK FENCE
 - TIMBER RETAINING WALL
 - TEMPORARY CONSTRUCTION FENCE
 - OBSERVED WETLAND
 - CONCRETE PAVING
 - PLANTED TERRAMESH RETAINING WALL
 - AMENITY PLANTING (MAX. 1M HIGH)
 - EDGE PLANTING (MAX. 1M HIGH)
 - WETLAND EDGE PLANTING
 - RIPARIAN SCREEN PLANTING
 - SCREEN UNDERPLANTING
 - RIP RAP (REFER TO STORMWATER DRAWINGS)
 - PROPOSED TREE
 - PROPOSED SHRUB / SMALL TREE




BUN60424934
 Approved Resource Consent Plan
 13/06/2024

1:500 @ A1
1:1000 @ A3

REVISION	AMENDMENT	APPROVED	DATE
A	ISSUED FOR RESOURCE CONSENT	FR	25/09/2023
B	ISSUED FOR RESOURCE CONSENT	FR	19/01/2024
C	ISSUED FOR RESOURCE CONSENT	FR	25/01/2024



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New Zealand

LANDSCAPE ARCHITECTURE

SCALES	DESIGNED	APPROVED	ORIGINAL SIZE
1:250 (A1), 1:500 (A3)	J. FRENCH	F. RAHMAN	A1
DRAWN	J. FRENCH	F. RAHMAN	
DRAWING VERIFIED	M. DRYSDALE	DESIGN VERIFIED	APPROVED DATE
M. DRYSDALE	M. DRYSDALE	M. DRYSDALE	25/01/2024

RESOURCE CONSENT

PROJECT
WAKA KOTAHİ NZ TRANSPORT AGENCY
BOMBAY, AUCKLAND
WEIGH RIGHT PROGRAMME - BOMBAY CVSC
TITLE
LANDSCAPE GENERAL ARRANGEMENT PLAN
WSP PROJECT NO. (SUB-PROJECT)
5C4353-WSP-54-DR-
SHEET NO.
L-1000
REVISION
C

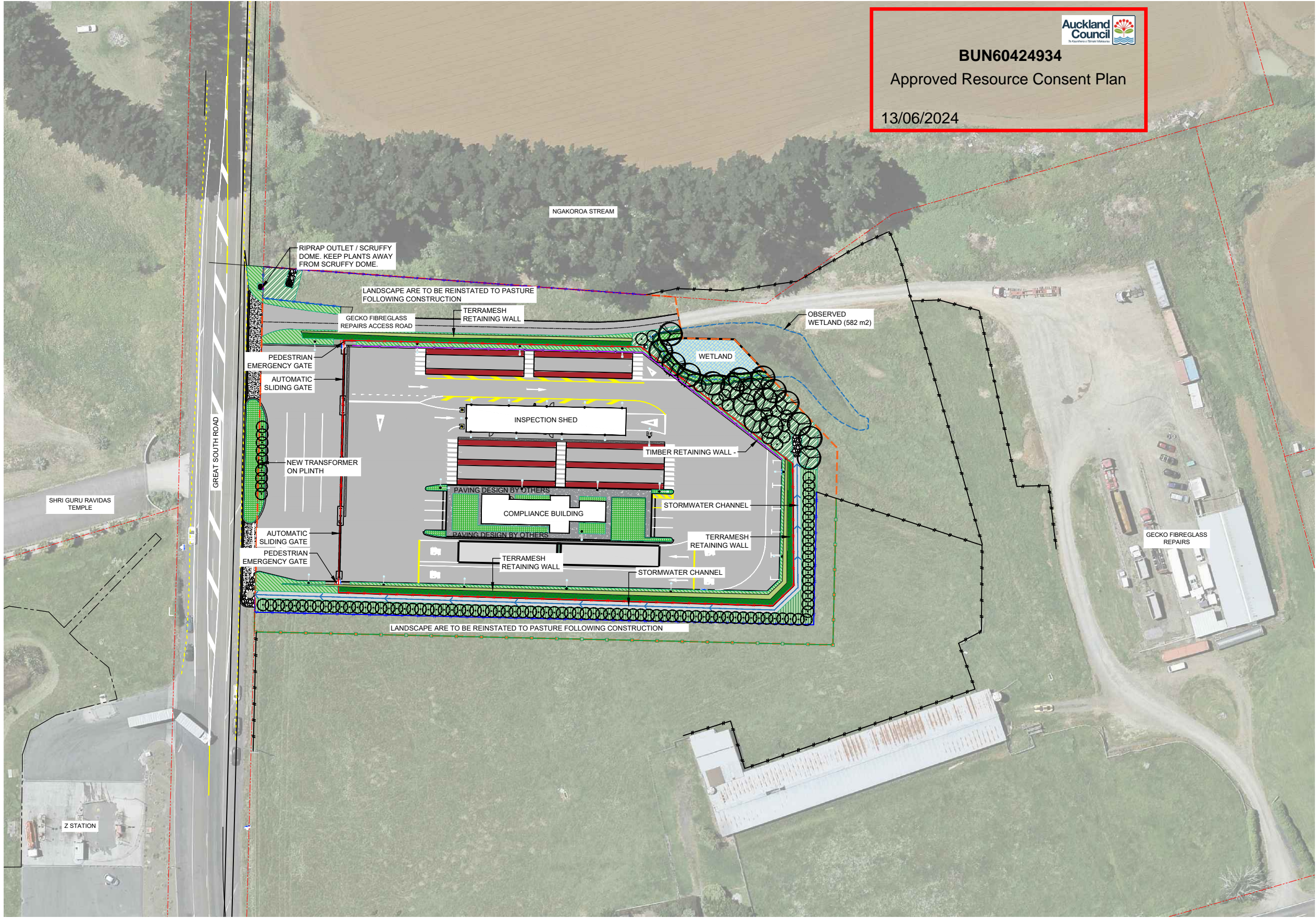


BUN60424934
 Approved Resource Consent Plan
 13/06/2024



- LEGEND**
- DESIGNATION BOUNDARY
 - PROPERTY BOUNDARY
 - SECURITY FENCE
 - PERMANENT FARM FENCE
 - EXISTING STOCK FENCE
 - TIMBER RETAINING WALL
 - TEMPORARY CONSTRUCTION FENCE
 - OBSERVED WETLAND
 - CONCRETE PAVING
 - PLANTED TERRAMESH RETAINING WALL
 - AMENITY PLANTING (MAX. 1M HIGH)
 - EDGE PLANTING (MAX. 1M HIGH)
 - WETLAND EDGE PLANTING
 - RIPARIAN SCREEN PLANTING
 - SCREEN UNDERPLANTING
 - RIP RAP (REFER TO STORMWATER DRAWINGS)
 - PROPOSED TREE
 - PROPOSED SHRUB / SMALL TREE

300 mm
200
100
50
0 10 mm



1:500 @ A1
 1:1000 @ A3

REVISION	AMENDMENT	APPROVED	DATE
A	ISSUED FOR RESOURCE CONSENT	FR	25/09/2023
B	ISSUED FOR RESOURCE CONSENT	FR	19/01/2024
C	ISSUED FOR RESOURCE CONSENT	FR	25/01/2024



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 New Zealand

LANDSCAPE ARCHITECTURE

SCALES	DESIGNED	APPROVED	ORIGINAL SIZE
1:500 (A1), 1:1000 (A3)	J. FRENCH	F. RAHMAN	A1
DRAWN	J. FRENCH	F. RAHMAN	
DRAWING VERIFIED	M. DRYSDALE	APPROVED DATE	25/01/2024

RESOURCE CONSENT

PROJECT
WAKA KOTAHI NZ TRANSPORT AGENCY
BOMBAY, AUCKLAND
WEIGH RIGHT PROGRAMME - BOMBAY CVSC

TITLE
LANDSCAPE GENERAL ARRANGEMENT PLAN - WIDER CONTEXT

WSP PROJECT NO. (SUB-PROJECT)
 5C4353-WSP-54-DR-

SHEET NO.
 L-1001

REVISION
 C



LEGEND

TREES

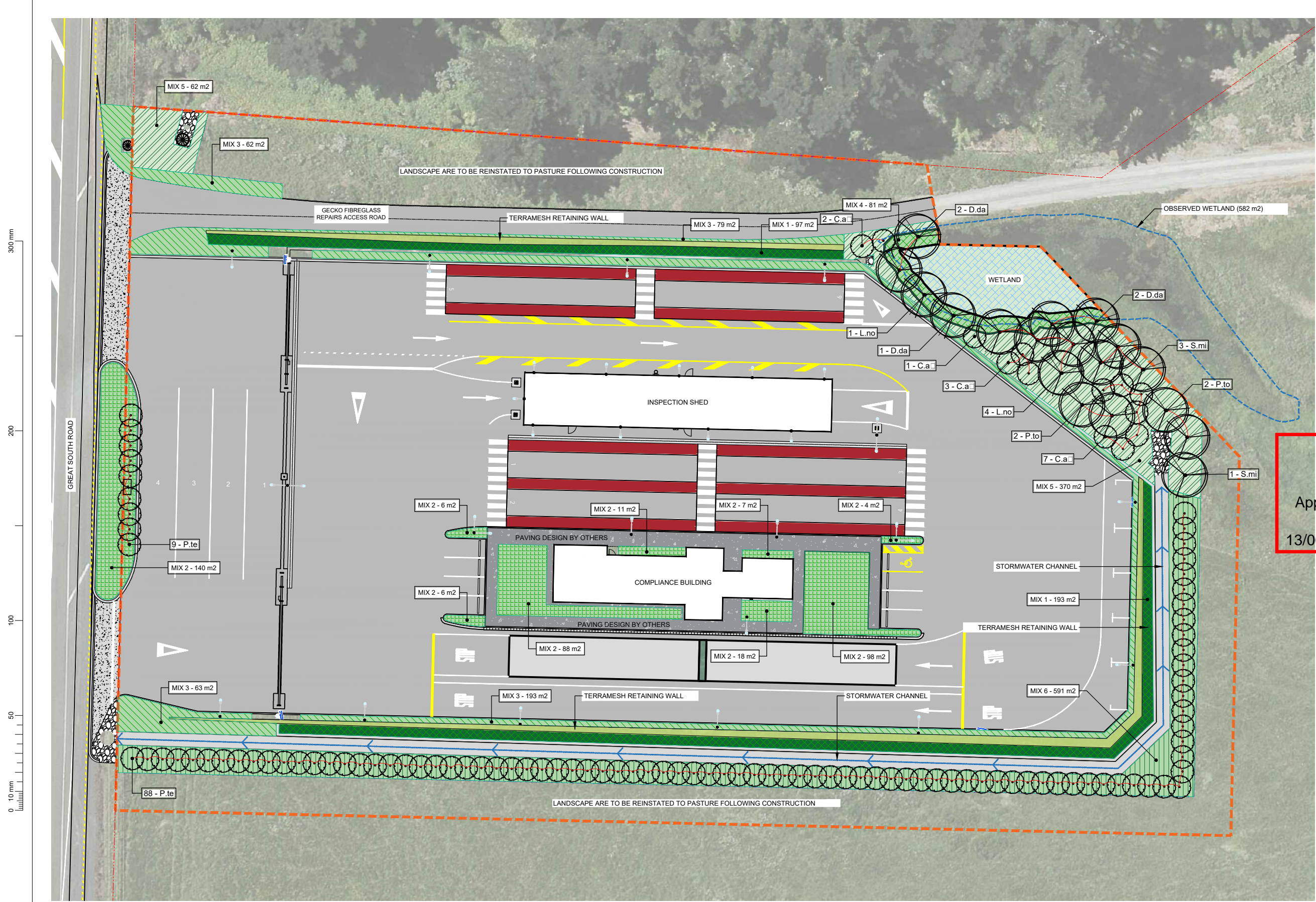
- C.au *Cordyline australis*
- D.da *Dacrycarpus dacrydiodes*
- L.no *Laurelia novae-zelandiae*
- P.te *Pittosporum tenuifolium*
- P.to *Podocarpus totara*
- S.mi *Sophora microphylla*

SHRUBS AND GROUNDCOVERS

- MIX 1 Terramesh retaining wall planting
- MIX 2 Amenity planting (max. 1m high)
- MIX 3 Edge planting (max. 1m high)
- MIX 4 Wetland edge planting
- MIX 5 Riparian screen planting
- MIX 6 Screen underplanting

OTHERS

- DESIGNATION BOUNDARY
- PROPERTY BOUNDARY
- OBSERVED WETLAND



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Approved Resource Consent Plan
13/06/2024

1:250 @ A1
1:500 @ A3

REVISION	AMENDMENT	APPROVED	DATE
A	ISSUED FOR RESOURCE CONSENT	FR	25/09/2023
B	ISSUED FOR RESOURCE CONSENT	FR	19/01/2024
C	ISSUED FOR RESOURCE CONSENT	FR	25/01/2024



LANDSCAPE ARCHITECTURE

SCALES	DESIGNED	APPROVED	ORIGINAL SIZE
1:250 (A1), 1:500 (A3)	J. FRENCH	F. RAHMAN	A1
DRAWN	J. FRENCH	F. RAHMAN	
DRAWING VERIFIED	M. DRYSDALE	APPROVED DATE	
M. DRYSDALE	M. DRYSDALE	25/01/2024	

RESOURCE CONSENT

PROJECT	TITLE	WSP PROJECT NO. (SUB-PROJECT)	SHEET NO.	REVISION
WAKA KOTAHI NZ TRANSPORT AGENCY BOMBAY, AUCKLAND WEIGH RIGHT PROGRAMME - BOMBAY CVSC	LANDSCAPE PLANTING PLAN	5C4353-WSP-54-DR-	L-2000	C

NOTES



GENERAL

- THE LANDSCAPE PLANTING LAYOUT PLAN SHOWS A MASS PLANTING ARRANGEMENT WITHIN THE EXTENT OF WORKS. NOTE THAT HATCHES SHOWN ON THESE DRAWINGS ARE INDICATIVE ONLY AND DO NOT REPRESENT A PLANTING PATTERN.
- DRAWINGS SHALL BE READ IN CONJUNCTION WITH THE NZTA P39 STANDARD SPECIFICATION FOR HIGHWAY LANDSCAPE TREATMENTS (THE SPECIFICATION) AND ALL WORKS CARRIED OUT IN ACCORDANCE WITH THE SPECIFICATION.
- ALL DIMENSIONS SHOWN IN MM UNLESS OTHERWISE STATED.
- DO NOT SCALE OFF THE DRAWINGS, USE DIMENSIONED MEASUREMENTS ONLY.
- THE CONTRACTOR SHALL VERIFY ALL DIMENSIONS ON SITE PRIOR TO COMMENCEMENT OF WORK.
- THE CONTRACTOR SHALL BE RESPONSIBLE FOR FINAL ON-SITE SETOUT TO ENGINEER APPROVAL.
- CONTRACTOR IS TO TAKE ALL CARE TO CONFIRM LOCATION AND DIRECTION OF SERVICES PRIOR TO UNDERTAKING WORKS AND PROTECT THOSE TO BE RETAINED. INSPECT AND DOCUMENT EXISTING SERVICES BEFORE WORK COMMENCES. NOTIFY THE ENGINEER OF ANY DAMAGE.
- CONTRACTOR IS RESPONSIBLE FOR INSPECTING AND DOCUMENTING ALL ITEMS TO BE RETAINED, INCLUDING PRIVATELY OWNED ASSETS PROXIMATE TO THE WORKS, PRIOR TO COMMENCING WORKS.

PLANTING

- ALL PLANTING AREAS TO HAVE A MINIMUM 300MM DEPTH GOOD QUALITY TOPSOIL AS PER THE SPECIFICATION TO FINISHED LEVELS.
- ALL PLANTING AREAS TO HAVE MINIMUM 100MM DEPTH MULCH AS PER THE SPECIFICATION.
- WHERE POSSIBLE, ALL NATIVE SPECIES TO BE ECO-SOURCED FROM THE LOCAL ECOLOGICAL AREA WITHIN THE AUCKLAND REGIONS.
- ALL PLANTS TO BE PLACED IN A UNIFORM ARRANGEMENT. CONFIRM SETOUT WITH LANDSCAPE ARCHITECT PRIOR TO UNDERTAKING ANY PLANTING WORK.
- ALL TREES THAT ARE BEING REMOVED ARE TO BE CONFIRMED BY LANDSCAPE ARCHITECT ON SITE.

PLANT PALETTE

BOTANICAL NAME	COMMON NAME	GRADE (L)	SPACING (m)	PLANT MIX	QUANTITY	PLACEMENT NOTES
Trees						
C.au <i>Cordyline australis</i>	Ti Kōwhiri/ Cabbage tree	45	as shown	-	13	
D.da <i>Dacrydium dacrydioides</i>	Kahikatea	45	as shown	-	5	Wetland edge planting mix
L.no <i>Laurelia novae-zelandiae</i>	Pōhātea	45	as shown	-	5	
P.te <i>Pittosporum tenuifolium</i>	Kōwhiri	45	2m / as shown	-	97	Screening
P.to <i>Podocarpus totara</i>	Totara	45	as shown	-	4	
S.mi <i>Sophora microphylla</i>	Kowhai	45	as shown	-	4	
Shrubs and Groundcovers						
Mix 1 Terramesh Retaining Wall Planting						
 <i>Muehlenbeckia complexa</i>	Pohātea	1.5	4/m2	100%	1206	Top planting (290 m2)
 <i>Muehlenbeckia complexa</i>	Pohātea	Root Trainer	1/m2	100%	500	Vertical facing
Mix 2 (378 m2) Amenity Planting (max. 1m high)						
<i>Carex testacea</i>	New Zealand Hair Sedge	1.5	4/m2	20%	315	Plant min. 2m from path edges
<i>Coprosma 'Hawera'</i>	Sand Coprosma	1.5	4/m2	50%	785	
<i>Libertia peregrinans</i>	Creeping NZ Iris	1.5	4/m2	20%	315	
<i>Phormium cookianum 'Green Dwarf'</i>	Mountain Flax	1.5	1/m2	10%	39	
Mix3 (396 m2) Edge Planting (max. 1m high)						
<i>Coprosma 'Hawera'</i>	Sand Coprosma	1.5	4/m2	50%	823	
<i>Phormium cookianum 'Green Dwarf'</i>	Mountain Flax	1.5	1/m2	50%	206	
Mix 4 (81 m2) Wetland Edge planting						
<i>Austroderia fulvida</i>	Toetoe	1.5	4/m2	20%	67	Planted away from water
<i>Carex secta</i>	Pōrei	1.5	4/m2	20%	67	Planted closer to water
<i>Carex virgata</i>	Small swamp sedge	1.5	4/m2	20%	67	
<i>Cyperus ustulatus</i>	Giant Umbrella sedge	1.5	4/m2	20%	67	
<i>Juncus edgariae</i>	Wiwi	1.5	4/m2	20%	67	
Mix 5 (432 m2) Riparian Screen Planting						
<i>Austroderia fulvida</i>	Toetoe	1.5	4/m2	20%	360	
<i>Carex virgata</i>	Small swamp sedge	1.5	4/m2	20%	360	
<i>Coprosma robusta</i>	Karamū	1.5	4/m2	20%	360	
<i>Entelea arborescens</i>	Whānui	1.5	1/m2	10%	44	
<i>Letospermum scoparium</i>	Manuka	1.5	1/m2	20%	90	
<i>Phormium tenax</i>	Hara-kete	5	1/m2	10%	44	
Mix 6 (591m2) Screen Underplanting						
<i>Phormium cookianum 'Green Dwarf'</i>	Kōwhiri	5	1/m2	100%	614	

300 mm
200
100
50
0 10 mm

1:250 @ A1
1:500 @ A3

REVISION	AMENDMENT	APPROVED	DATE
A	ISSUED FOR RESOURCE CONSENT	FR	25/09/2023
B	ISSUED FOR RESOURCE CONSENT	FR	19/01/2024
C	ISSUED FOR RESOURCE CONSENT	FR	25/01/2024



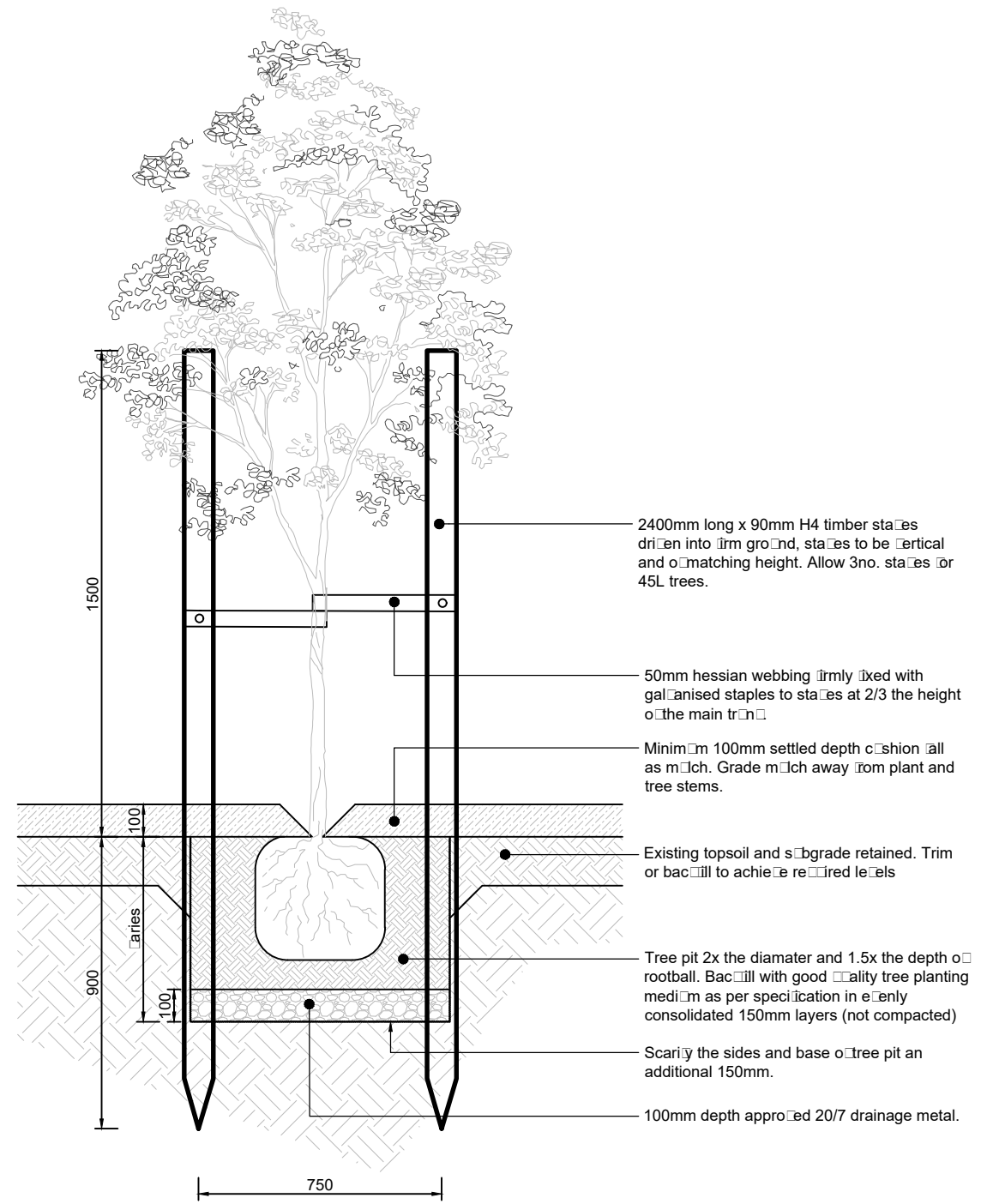
SCALES		ORIGINAL SIZE
1:250 (A1), 1:500 (A3)		A1
DRAWN	DESIGNED	APPROVED
J. FRENCH	J. FRENCH	F. RAHMAN
DRAWING VERIFIED	DESIGN VERIFIED	APPROVED DATE
M. DRYSDALE	M. DRYSDALE	25/01/2024

PROJECT	
WAKA KOTAHI NZ TRANSPORT AGENCY BOMBAY, AUCKLAND WEIGH RIGHT PROGRAMME - BOMBAY CVSC	
TITLE	
LANDSCAPE PLANT SCHEDULE AND NOTES	
WSP PROJECT NO. (SUB-PROJECT)	SHEET NO.
5C4353-WSP-54-DR-	L-3000
REVISION	
C	

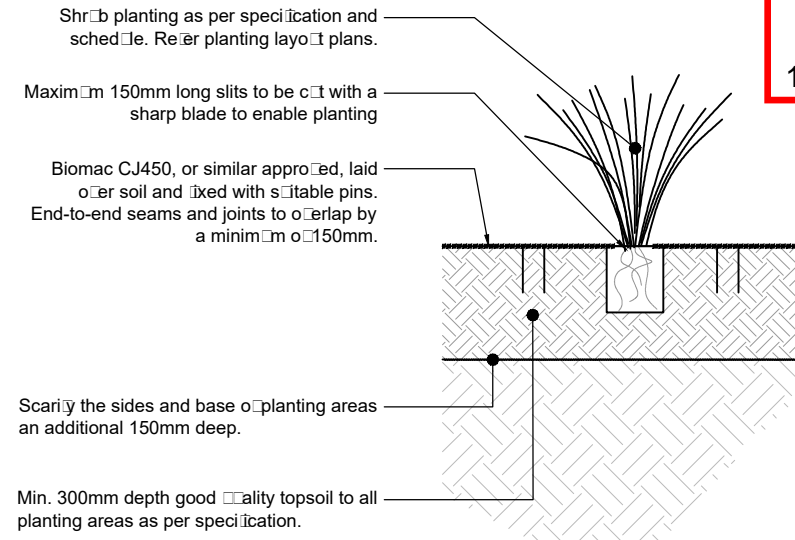
LANDSCAPE ARCHITECTURE

RESOURCE CONSENT

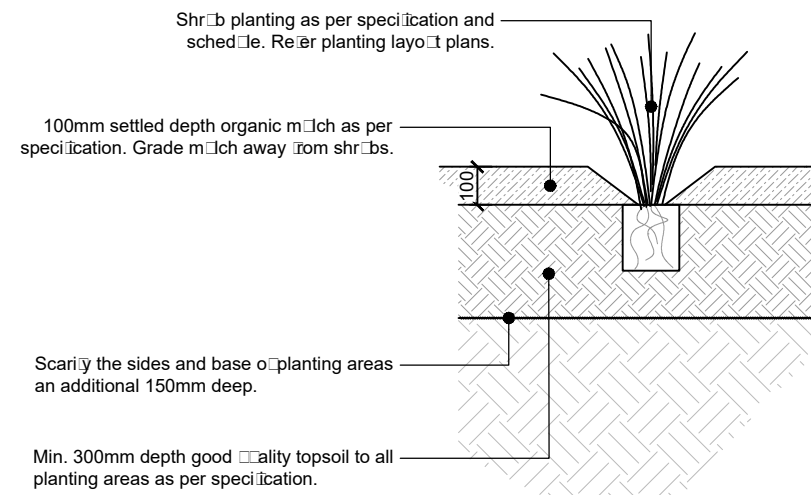
300 mm
200
100
50
0 10 mm



01 TYPICAL 45L TREE PLANTING
4000 Scale: 1:10 (A1) 1:20 (A3)



02 TYPICAL SHRUB PLANTING (GEOFABRIC) - MIX 3, MIX 4 & MIX 5
4000 Scale: 1:10 (A1) 1:20 (A3)



03 TYPICAL SHRUB PLANTING (MULCH) - MIX 1, MIX 2 & MIX 6
4000 Scale: 1:10 (A1) 1:20 (A3)

1:10 @ A1
1:20 @ A3
0 100 200 300 400 500 600 700 800 900 1000 mm

REVISION	AMENDMENT	APPROVED	DATE
A	ISSUED FOR RESOURCE CONSENT	FR	25/09/2023
B	ISSUED FOR RESOURCE CONSENT	FR	19/01/2024
C	ISSUED FOR RESOURCE CONSENT	FR	25/01/2024



wsp
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Wellington 6144
New Zealand

LANDSCAPE ARCHITECTURE

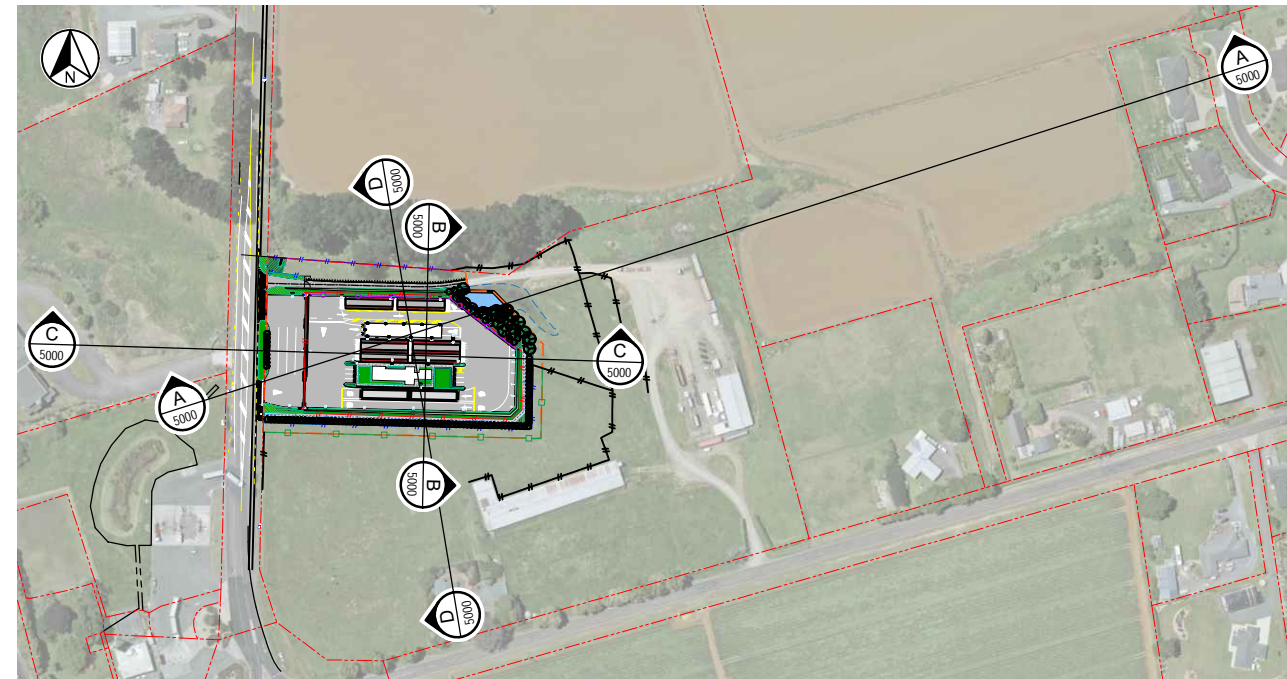
SCALES	DESIGNED	APPROVED	ORIGINAL SIZE
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DRAWN	J. FRENCH	F. RAHMAN	
DRAWING VERIFIED	M. DRYSDALE	APPROVED DATE	
M. DRYSDALE	M. DRYSDALE	25/01/2024	

RESOURCE CONSENT

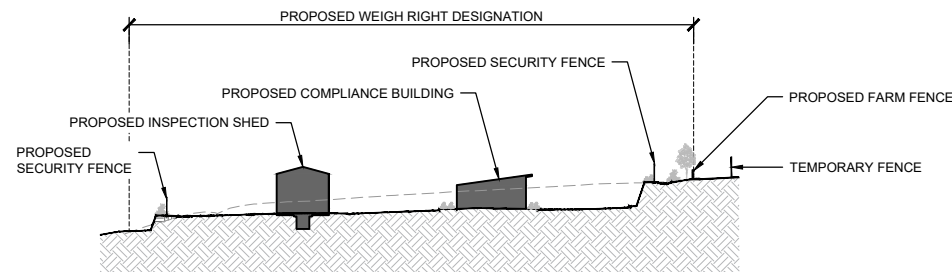
PROJECT	TITLE	WSP PROJECT NO. (SUB-PROJECT)	SHEET NO.	REVISION
WAKA KOTAHI NZ TRANSPORT AGENCY BOMBAY, AUCKLAND WEIGH RIGHT PROGRAMME - BOMBAY CVSC	LANDSCAPE TYPICAL PLANTING DETAILS	5C4353-WSP-54-DR-	L-4000	C



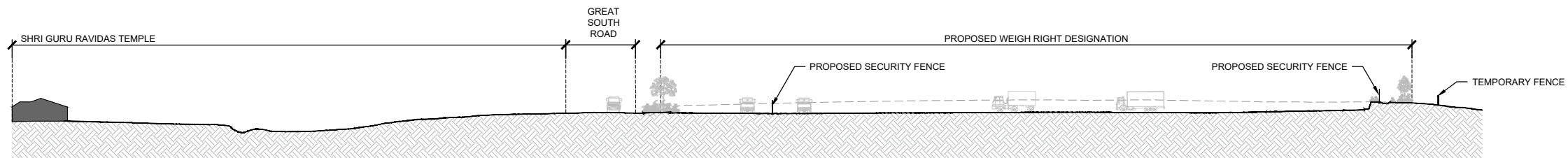
LONG SECTION A-A
SCALE 1:1000(A1)



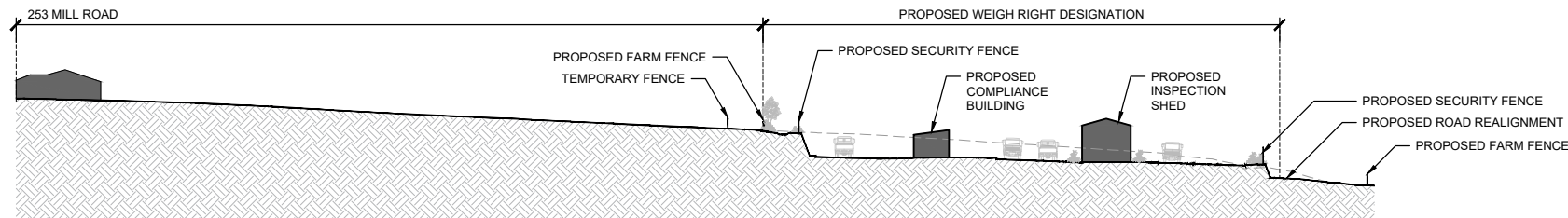
PLAN
SCALE 1:2000(A1)



SECTION B-B
SCALE 1:500(A1)



LONG SECTION C-C
SCALE 1:500(A1)



LONG SECTION D-D
SCALE 1:500(A1)

REVISION	AMENDMENT	APPROVED	DATE
A	ISSUED FOR RESOURCE CONSENT	FR	25/09/2023
B	ISSUED FOR RESOURCE CONSENT	FR	19/01/2024
C	ISSUED FOR RESOURCE CONSENT	FR	25/01/2024



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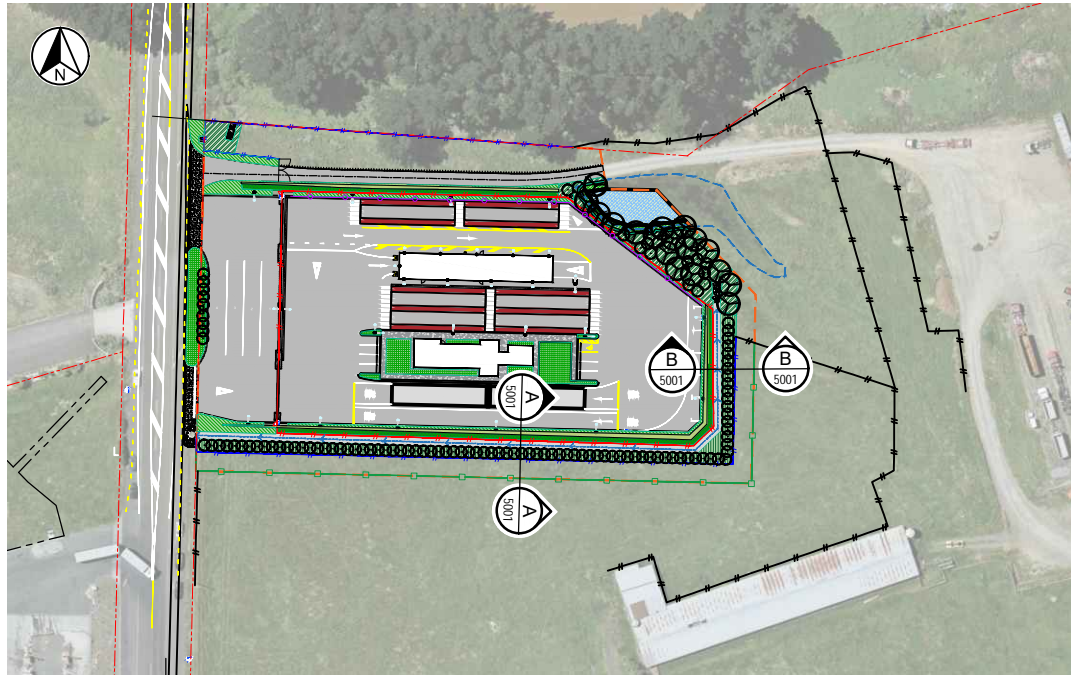
PO Box 12-003
Wellington 6144
New Zealand

LANDSCAPE ARCHITECTURE

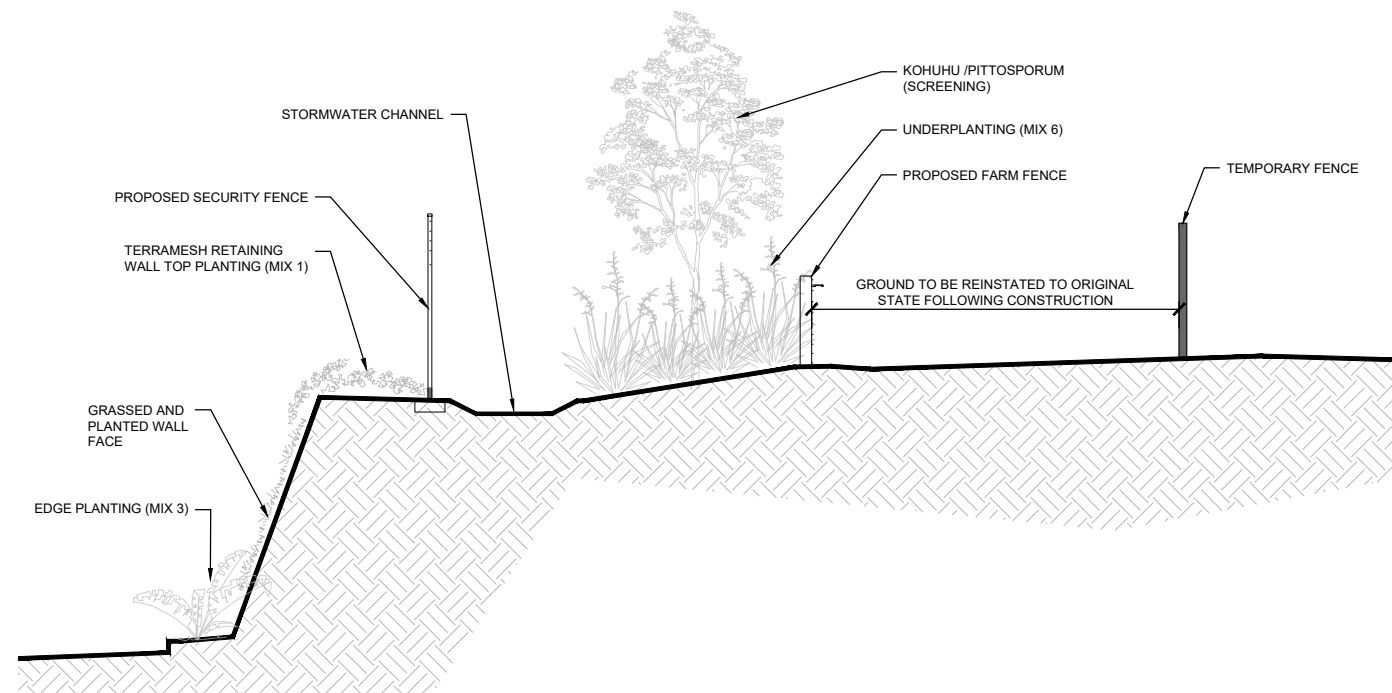
SCALES	DESIGNED	APPROVED	ORIGINAL SIZE
AS SHOWN	J. FRENCH	F. RAHMAN	A1
DRAWN	J. FRENCH	F. RAHMAN	
DRAWING VERIFIED	M. DRYSDALE	APPROVED DATE	
M. DRYSDALE	M. DRYSDALE	25/01/2024	

RESOURCE CONSENT

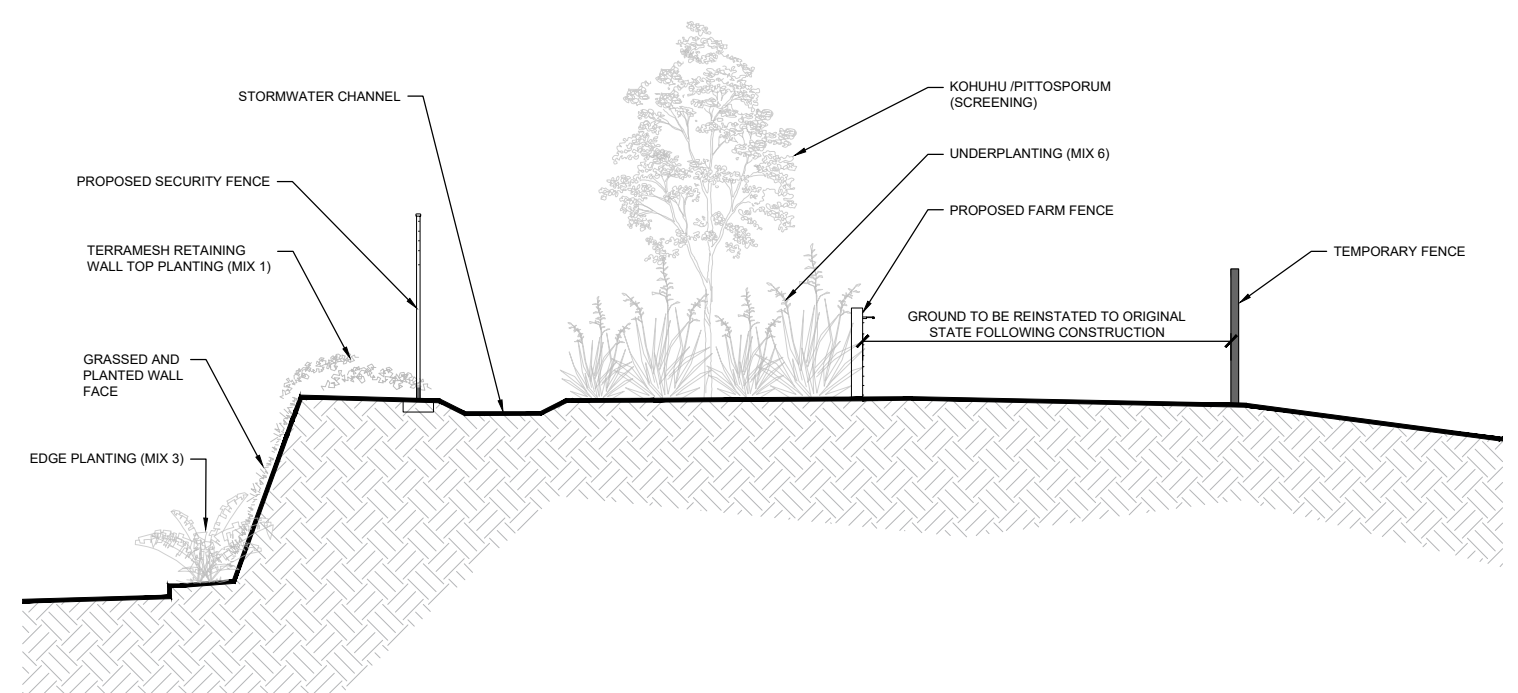
PROJECT	TITLE	WSP PROJECT NO. (SUB-PROJECT)	SHEET NO.	REVISION
WAKA KOTAHĪ NZ TRANSPORT AGENCY BOMBAY, AUCKLAND WEIGH RIGHT PROGRAMME - BOMBAY CVSC	LANDSCAPE SECTIONS	5C4353-WSP-54-DR-	L-5000	C



PLAN
SCALE 1:2000(A1)



SECTION A-A
SCALE 1:50(A1)



SECTION B-B
SCALE 1:50(A1)

REVISION	AMENDMENT	APPROVED	DATE
A	ISSUED FOR RESOURCE CONSENT	FR	19/01/2024
B	ISSUED FOR RESOURCE CONSENT	FR	25/01/2024



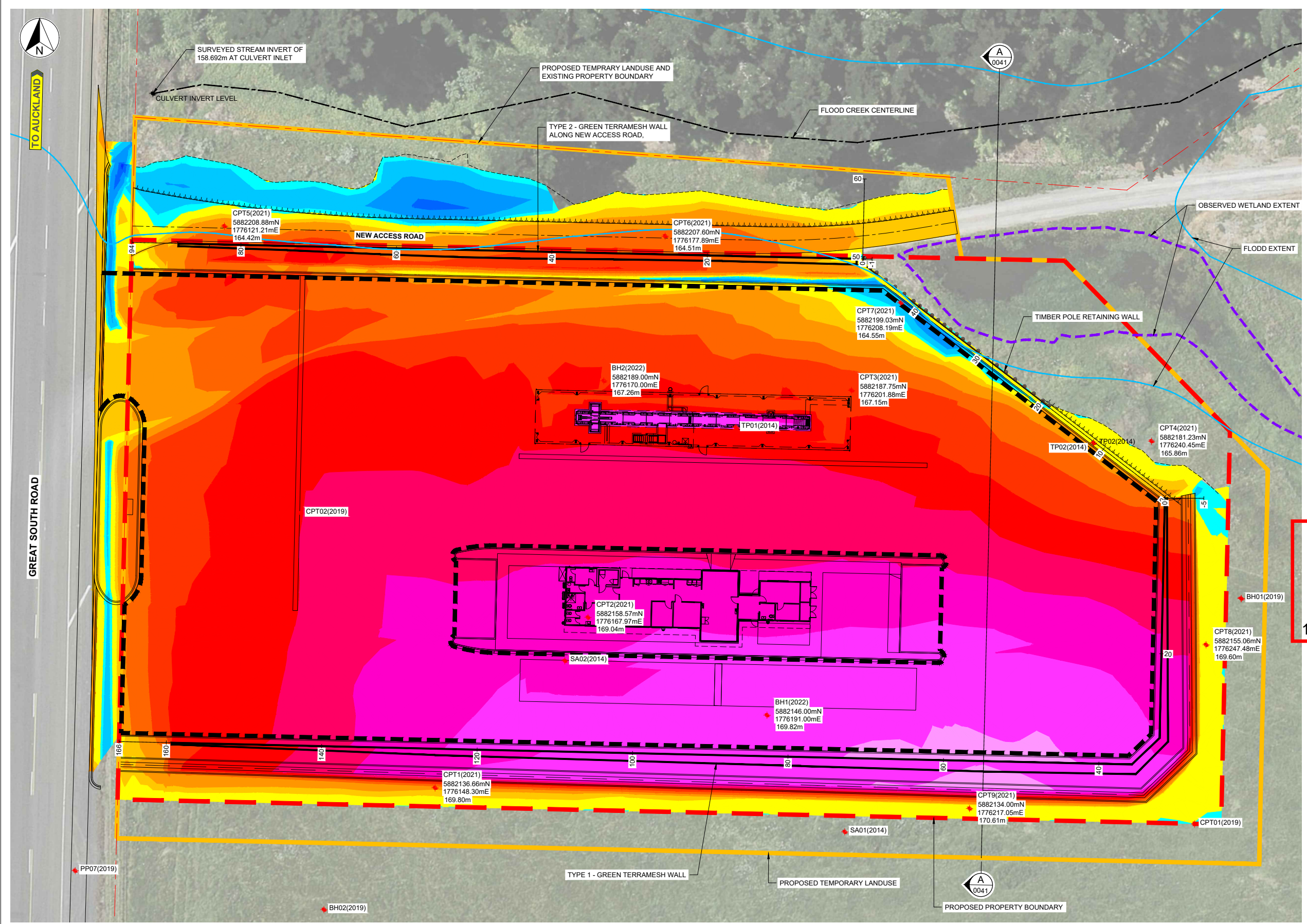
Wellington Office
+64 4 471 7000
PO Box 12-003
Wellington 6144
New Zealand

LANDSCAPE ARCHITECTURE

SCALES	DESIGNED	APPROVED	ORIGINAL SIZE
AS SHOWN	J. FRENCH	F. RAHMAN	A1
DRAWN	DESIGNED	APPROVED	
A. LIANG	J. FRENCH	F. RAHMAN	
DRAWING VERIFIED	DESIGN VERIFIED	APPROVED DATE	
M. DRYSDALE	M. DRYSDALE	25/01/2024	

RESOURCE CONSENT


PROJECT	TITLE	WSP PROJECT NO. (SUB-PROJECT)	SHEET NO.	REVISION
WAKA KOTAHI NZ TRANSPORT AGENCY BOMBAY, AUCKLAND WEIGH RIGHT PROGRAMME - BOMBAY CVSC	LANDSCAPE SECTIONS	5C4353-WSP-54-DR-	L-5001	B



NOTES:
 1. THIS DRAWING TO BE READ IN CONJUNCTION WITH SPECIFICATIONS AND DESIGN DRAWINGS.

C t/Fill Table				
Depth Range (-C t Fill)	Area (m ²)	Vol me (m ³)	Color	
-4.2 - -4.0	119	6	Pink	
-4.0 - -3.5	1439	378	Light Pink	
-3.5 - -3.0	1336	1120	Magenta	
-3.0 - -2.5	1584	1848	Red	
-2.5 - -2.0	1599	2620	Dark Red	
-2.0 - -1.5	1214	3376	Orange	
-1.5 - -1.0	920	3877	Light Orange	
-1.0 - -0.5	751	4298	Yellow	
-0.5 - -0.3	404	1833	Light Yellow	
-0.3 - 0.0	742	2898	Yellow-Green	
0.0 - 0.2	157	61	Light Green	
0.2 - 0.5	238	70	Green	
0.5 - 1.0	91	23	Dark Green	
1.0 - 1.5	9	1	Blue-Green	
1.5 - 2.0	0	0	Blue	
2.0 - 2.2	0	0	Dark Blue	

- LEGEND:**
- SUBSOIL DRAIN SURROUNDING PERMEABLE AREAS
 - BOREHOLE COORDINATES R.L.
 - CONE PENETRATION TEST COORDINATES R.L.
 - POCKET PENETROMETER TEST
 - SOAKAGE TESTING
 - TEST PIT


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 13/06/2024

CVSC - GEOLOGICAL PLAN
 SCALE: 1:250

1:250 @ A1
 1:500 @ A3

REVISION	AMENDMENT	APPROVED	DATE
A	ISSUED FOR RESOURCE CONSENT	F.R.	2024/01/15



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 New Zealand

CIVIL

SCALES	DESIGNED	APPROVED
1:250 (A1), 1:500 (A3)	P. FIEREK	F. RAHMAN
DRAWN	DESIGN VERIFIED	APPROVED DATE
P. FIEREK	S. ARUMUGAM	2024/01/15
DRAWING VERIFIED	DESIGN VERIFIED	APPROVED DATE
C. NELLES	S. ARUMUGAM	2024/01/15

RESOURCE CONSENT

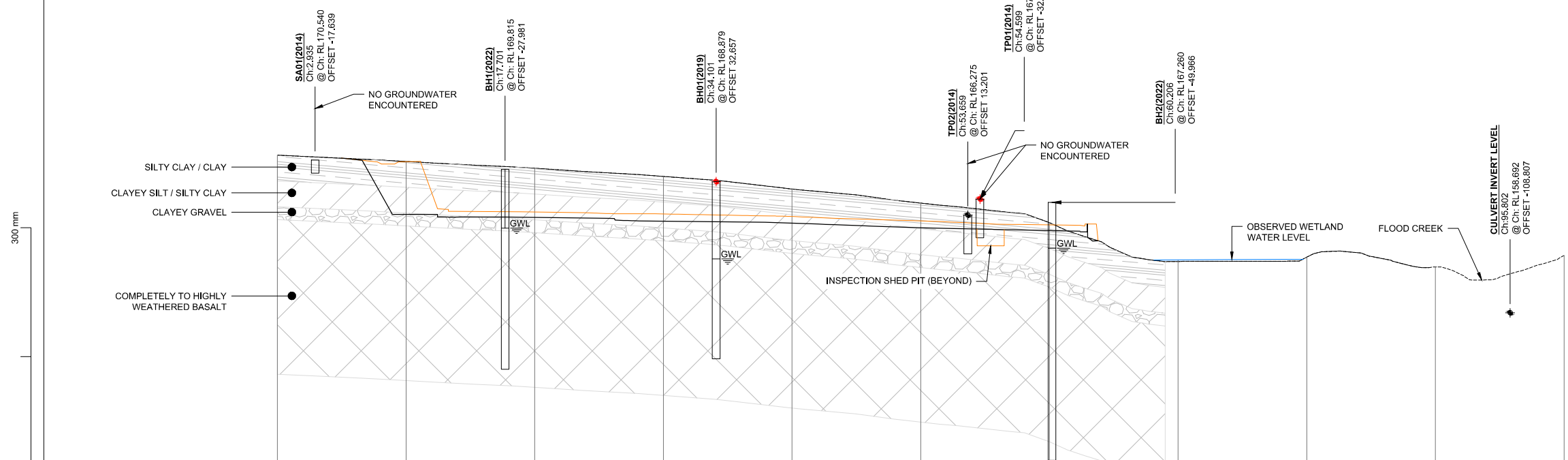
PROJECT	TITLE	WSP PROJECT NO. (SUB-PROJECT)	SHEET NO.	REVISION
WAKA KOTAHI NZ TRANSPORT AGENCY BOMBAY, AUCKLAND WEIGH RIGHT PROGRAMME - BOMBAY CVSC	CVSC GEOLOGICAL PLAN	5C4353-WSP-54-SK-	C-0040	A



NOTES:
 1. THIS DRAWING TO BE READ IN CONJUNCTION WITH SPECIFICATIONS AND DESIGN DRAWINGS.



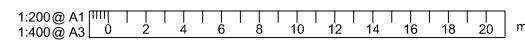
BUN60424934
 Approved Resource Consent Plan
 13/06/2024



Datum R.L. 145.00

STATION	EXISTING LEVEL	CUT/FILL	SUBGRADE LEVEL
0.00	170.93		
5.00	170.69	0.00	170.69
6.57	170.62	0.09	170.53
8.93	170.50	-4.16	166.34
10.00	170.44	-4.12	166.32
12.43	170.30	-3.98	166.32
13.29	170.26	-4.13	166.12
14.26	170.21	-4.09	166.12
15.85	170.13	-4.00	166.13
16.91	170.08	-3.95	166.13
17.73	170.05	-3.91	166.13
20.00	169.91	-3.81	166.10
25.70	168.56	-3.53	166.02
26.25	168.53	-3.64	165.89
26.89	168.49	-3.63	165.86
27.55	168.45	-3.61	165.84
28.09	168.42	-3.59	165.83
30.00	168.28	-3.47	165.81
37.89	168.55	-2.82	165.73
40.00	168.30	-2.65	165.65
42.00	168.11	-2.53	165.58
42.61	168.06	-2.50	165.56
43.31	168.00	-2.46	165.53
44.13	167.93	-2.42	165.50
45.10	167.83	-2.36	165.47
46.28	167.67	-2.25	165.42
47.82	167.45	-2.08	165.37
49.80	167.23	-1.94	165.29
50.00	167.21	-1.92	165.28
51.95	167.01	-1.76	165.25
55.19	166.67	-1.49	165.18
55.72	166.62	-1.45	165.17
60.00	165.69	-0.62	165.08
60.07	165.66	-0.59	165.08
62.90	164.56	0.42	164.98
62.37	164.73	0.30	165.03
63.78	164.29	-0.01	164.28
70.00	162.68		
80.00	163.02		
90.00	162.25		
100.00	163.14		

SECTION A-A
 SCALE 1:250



REVISION	AMENDMENT	APPROVED	DATE
A	ISSUED FOR RESOURCE CONSENT	F.R.	2024/01/15
B	REISSUED FOR RESOURCE CONSENT	F.R.	2024-03-08

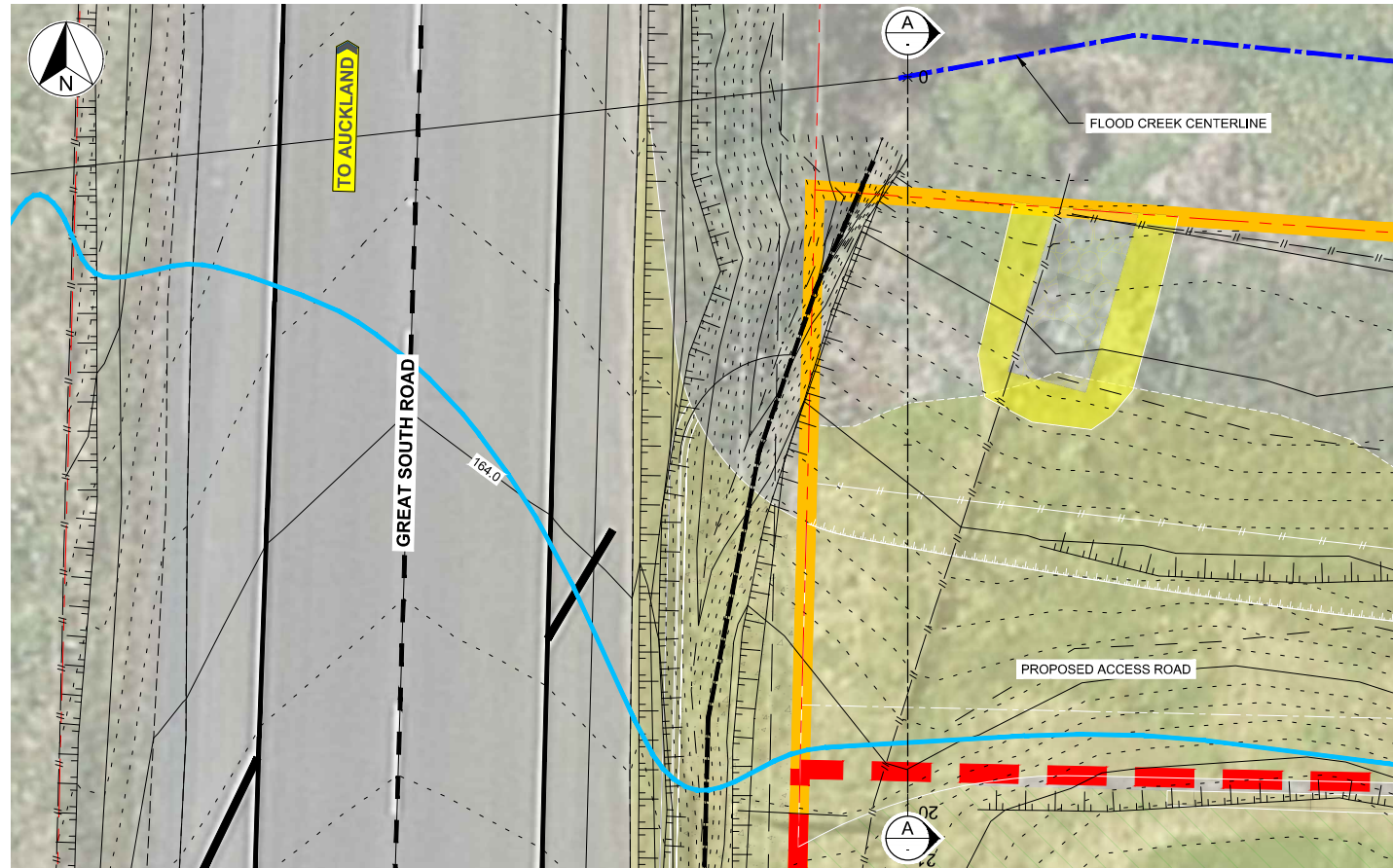


CIVIL

SCALES		ORIGINAL SIZE
1:200 (A1), 1:400 (A3)		A1
DRAWN	DESIGNED	APPROVED
P. FIEREK	P. FIEREK	F. RAHMAN
DRAWING VERIFIED	DESIGN VERIFIED	APPROVED DATE
C. NELLES	S. ARUMUGAM	2024-03-08

RESOURCE CONSENT

PROJECT		SHEET NO.	
WAKA KOTAHİ NZ TRANSPORT AGENCY BOMBAY, AUCKLAND WEIGH RIGHT PROGRAMME - BOMBAY CVSC		C-0041	
TITLE		REVISION	
CVSC GEOLOGICAL SECTION A-A		B	
WSP PROJECT NO. (SUB-PROJECT) 5C4353-WSP-54-SK-			



SITE PLAN
SCALE: 1:100

NOTES:

- DRAWING TO BE READ IN CONJUNCTION WITH SPECIFICATION AND DESIGN DRAWINGS.

LEGEND:

- EXISTING PROPERTY BOUNDARY
- PROPOSED PROPERTY BOUNDARY
- EXISTING TOP OF BANK
- EXISTING FENCE

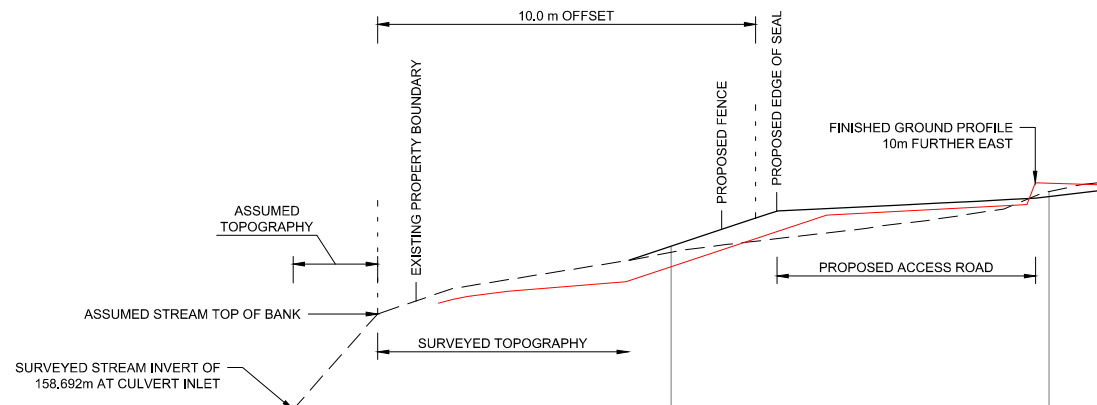


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Approved Resource Consent Plan

13/06/2024

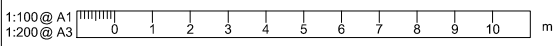
300 mm
200
100
50
0 10 mm



Datum R.L. 158.00

PROPOSED LEVEL		162.64	163.01	163.58	163.94	164.10	164.15	164.24	164.32	164.48
CUT/FILL		0.00	0.16	0.49	0.73	0.50	0.41	0.19	-0.13	-0.21
EXISTING LEVEL		162.64	162.85	163.08	163.21	163.60	163.75	164.05	164.45	164.69
CHAINAGE	0.00	8.89	10.00	11.70	12.79	16.01	17.14	18.95	20.00	21.29

SECTION A-A



REVISION	AMENDMENT	APPROVED	DATE
A	ISSUED FOR RESOURCE CONSENT	F.R.	2024/01/15



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Wellington 6144
New Zealand

CIVIL

SCALES	ORIGINAL SIZE
1:100 (A1), 1:200 (A3)	A1
DRAWN	DESIGNED
P. FIEREK	P. FIEREK
APPROVED	F. RAHMAN
DRAWING VERIFIED	DESIGN VERIFIED
C. NELLES	T. KALMAR
APPROVED DATE	2024-01-15

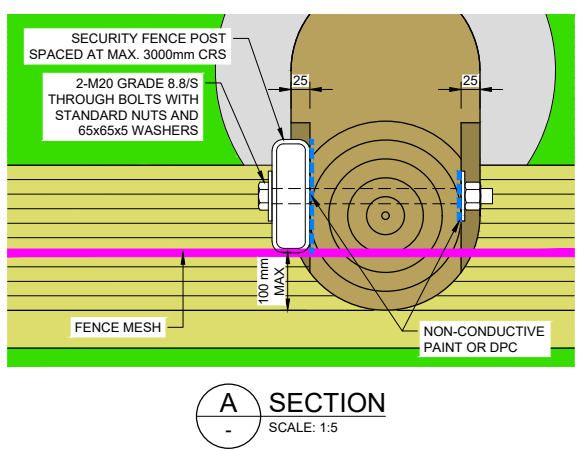
RESOURCE CONSENT

PROJECT
WAKA KOTAHI NZ TRANSPORT AGENCY BOMBAY, AUCKLAND WEIGH RIGHT PROGRAMME - BOMBAY CVSC
TITLE
CVSC SITE PLAN AND SECTION A-A
WSP PROJECT NO. (SUB-PROJECT) 5C4353-WSP-54-DR-
SHEET NO. C-0030
REVISION A

BUN60424934
Approved Resource Consent Plan
13/06/2024



SECURITY FENCE
1. FOR MORE DETAILS AND NOTES REFER TO SHEET C-8003



- TIMBER RETAINING WALL NOTES**
- ALL DIMENSIONS IN mm UNLESS OTHERWISE SPECIFIED.
 - ALL DWGS TO BE READ IN CONJUNCTION WITH THE WSP GEOTECHNICAL SPECIFICATION.
 - FOR GENERAL ARRANGEMENTS OF WORKS SHOWN ON THIS DWG, REFER TO CIVIL DWGS.
 - EXISTING SERVICES NOT SHOWN. VERIFY LOCATION OF ALL EXISTING SERVICES ON SITE BEFORE COMMENCING ANY WORKS.
 - CONTRACTOR SHALL SET OUT THE PILE LOCATIONS & THESE MUST BE AGREED TO BY THE ENGINEER PRIOR TO INSTALLATION.
 - SHOULD ANY CHANGES TO THE PILE SPACING BE REQUIRED BECAUSE OF SERVICES, PRIOR APPROVAL MUST BE OBTAINED FROM THE ENGINEER.
 - TIMBER LAGGING SHOULD BE MADE TO FIT AROUND THE SERVICES AS NECESSARY.
 - TIMBER TREATMENT SHALL USE CCA (COPPER CHROME ARSENIC) PRESERVATIVE.
 - WHERE STEEL IS IN CONTACT WITH TREATED TIMBER A NON-CONDUCTIVE PAINT SYSTEM SHALL BE APPLIED, OR ALTERNATIVELY A DAMP PROOF COURSE (DPC) SHALL BE PLACED BETWEEN THE STEEL AND TIMBER.
 - ALL TIMBER TREATMENTS TO BE AS SPECIFIED IN NZS 3602:2003.
 - FENCE FIXINGS IN CONTACT WITH TIMBER TO BE STAINLESS STEEL GRADE 316. APPROVED ISOLATION KITS TO BE PROVIDED BETWEEN STAINLESS STEEL FIXINGS AND HDG ELEMENTS.

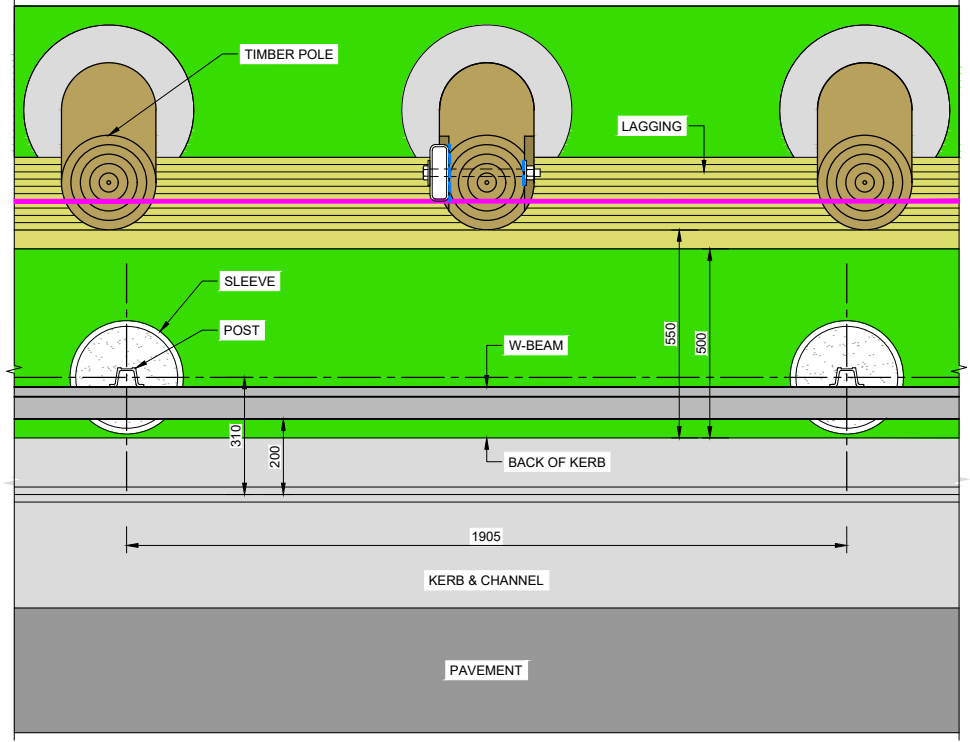
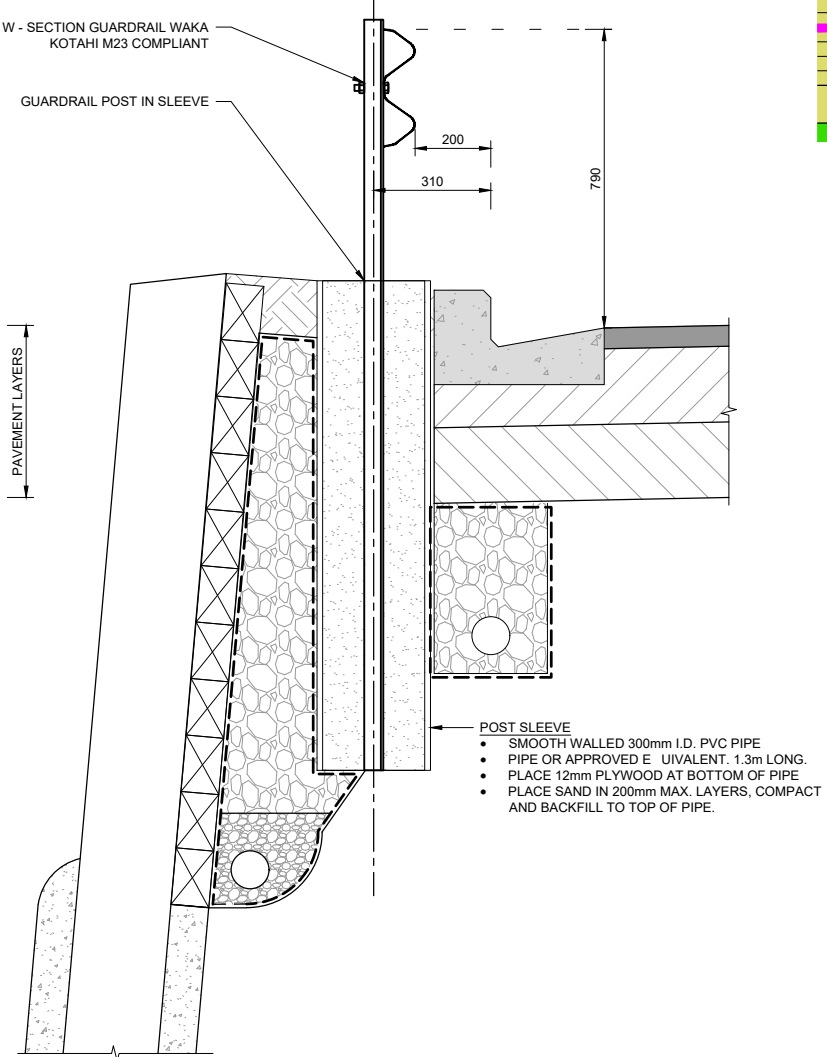
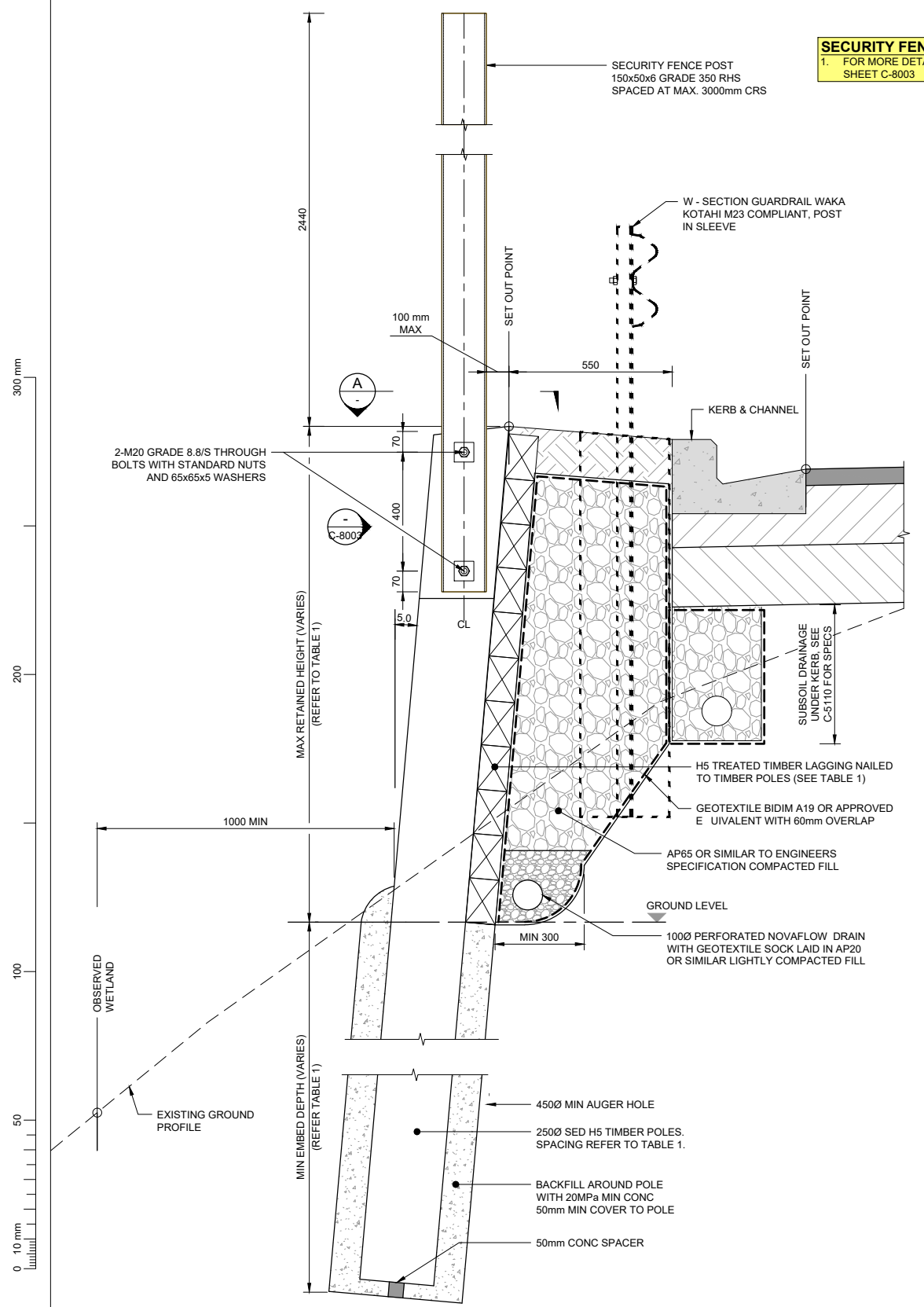


TABLE 1 - TIMBER POLE & LAGGING SCHEDULE

WALL TYPE	MAXIMUM RETAINED HEIGHT (m)	POLE SPACING (m)	MIN EMBED DEPTH (m)	LAGGING DIMENSIONS (mm)
TYPE 1 (TIMBER)	< 1.50	1.5 CRS	5.0	100 x 150
TYPE 2 (TIMBER)	1.50 - 2.20	1.0 CRS		

REVISION	AMENDMENT	APPROVED	DATE
0A	ISSUED FOR TENDER	F.R.	2023-11-13



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Private Bag 3057
Waikato Mail Centre
Hamilton 3240

CIVIL

SCALES		ORIGINAL SIZE
1:10, 20 (A1), 1:20, 40 (A3)		A1
DRAWN	DESIGNED	APPROVED
C. ESPINOSA	S. GABRIEL	F. RAHMAN
DRAWING VERIFIED	DESIGN VERIFIED	APPROVED DATE
C. NELLES	S. ARUMUGAM	2023-11-13

TENDER

PROJECT
**WAKA KOTAHI NZ TRANSPORT AGENCY
BOMBAY, AUCKLAND
WEIGH RIGHT PROGRAMME - BOMBAY CVSC**

TITLE
**RETAINING WALL DETAILS - SHEET 1 OF 2
TIMBER POLE**

WSP PROJECT NO. (SUB-PROJECT)
5C4353-WSP-54-DR-

SHEET NO.
C-3010

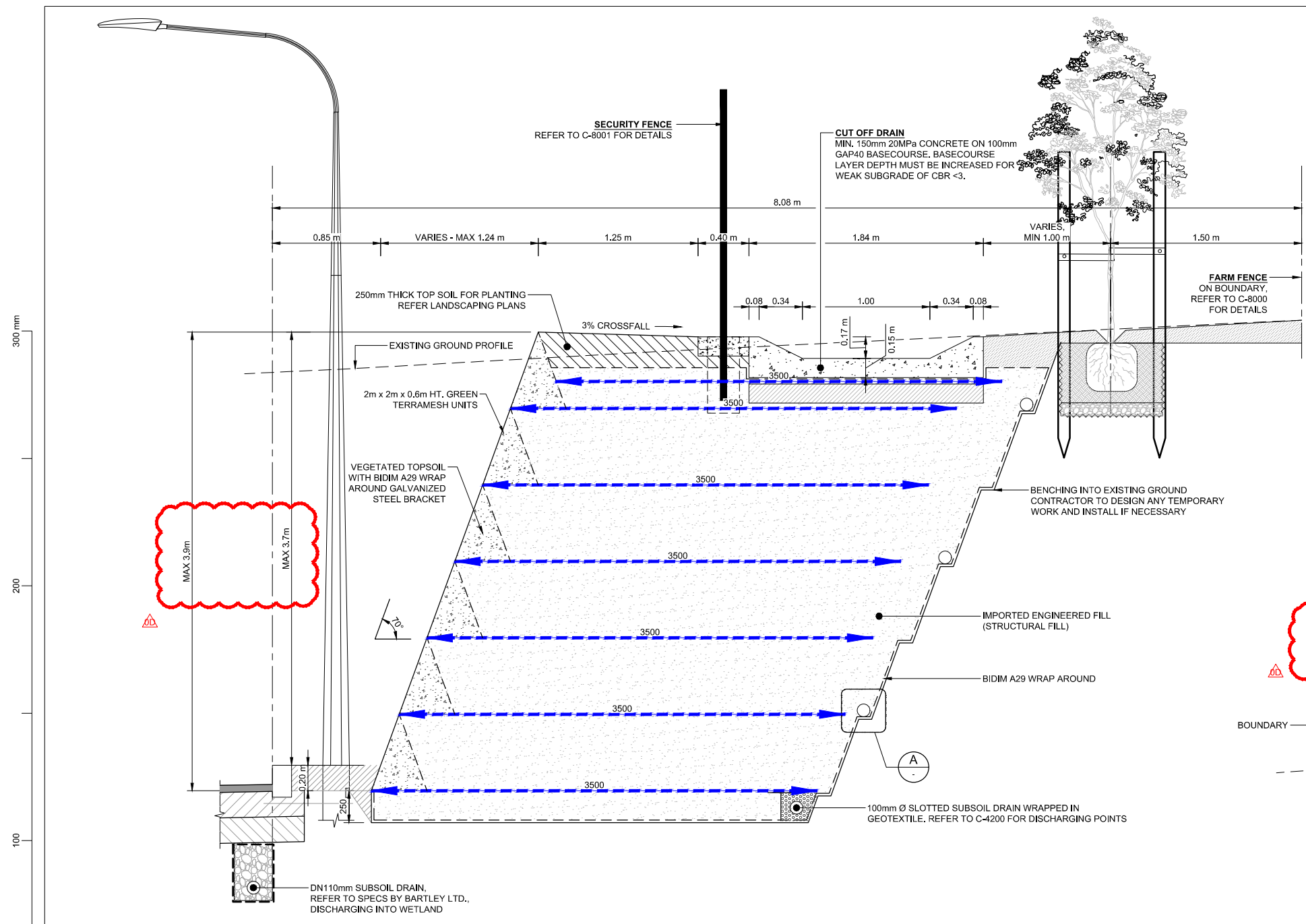
REVISION
0A



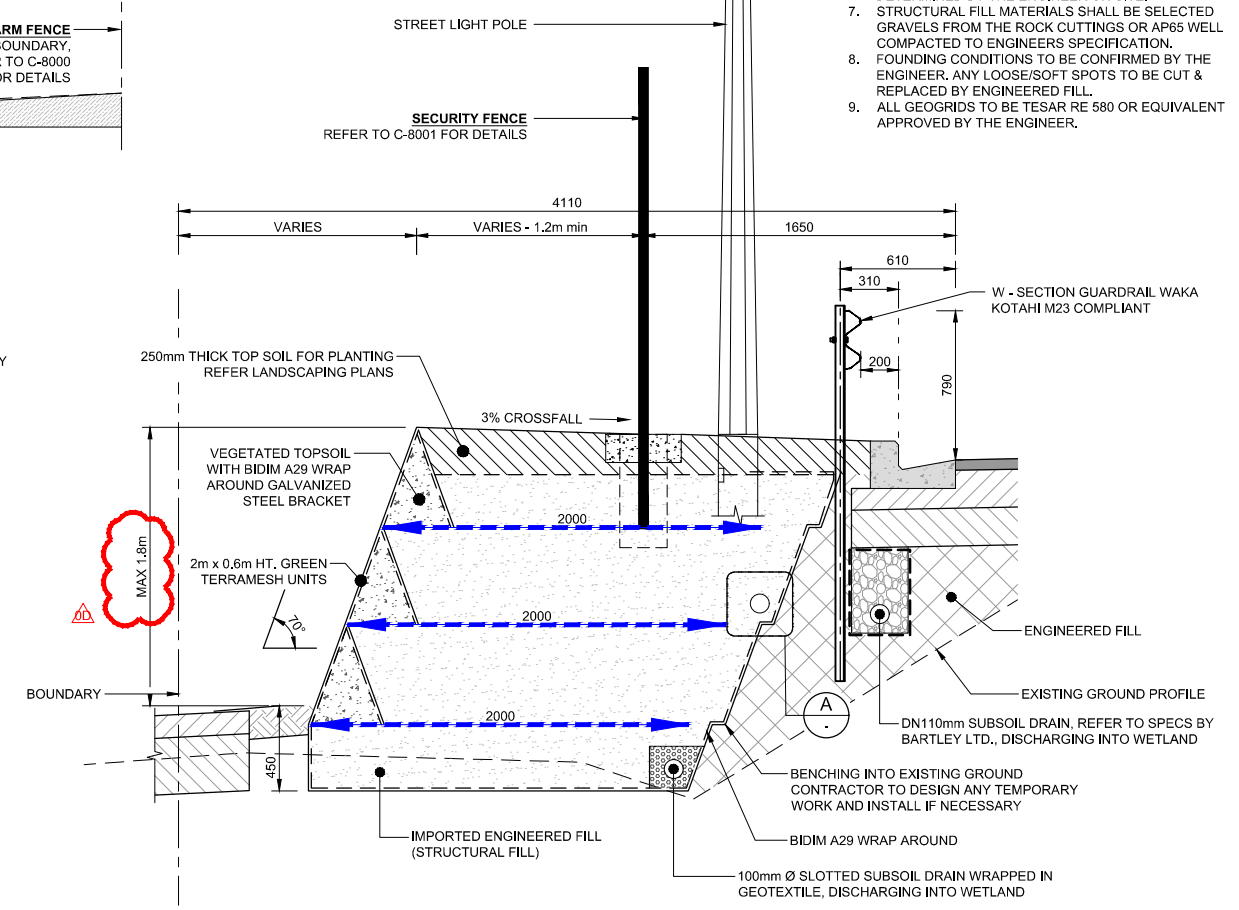
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 13/06/2024

TERRAMESH GREEN WALL NOTES

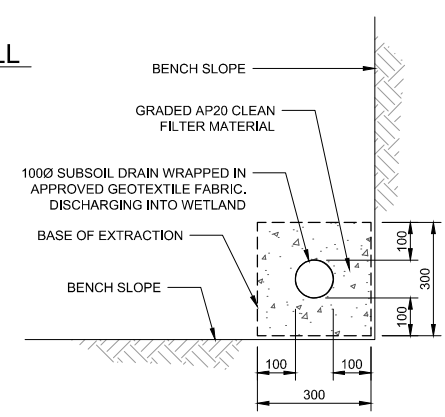
- ALL DIMENSIONS IN mm UNLESS OTHERWISE SPECIFIED.
- THIS DRAWING TO BE READ IN CONJUNCTION WITH THE WSP GEOTECHNICAL SPECIFICATIONS.
- FOR GENERAL ARRANGEMENTS OF WORKS SHOWN ON THIS DRAWING, REFER TO EARTHWORKS PLAN.
- EXISTING SERVICES NOT SHOWN. VERIFY LOCATION OF ALL EXISTING SERVICES ON SITE BEFORE COMMENCING ANY WORKS.
- IN WET AREAS, THE SUBSOIL DRAINS SHALL BE PLACED WITHIN A 300mm THICK DRAINAGE BLANKET COMPRISING FREE DRAINING MATERIAL WRAPPED IN GEOTEXTILE. THE DRAINAGE BLANKET SHALL BE UNDERNEATH THE 150mm MIN THICK STRUCTURAL FILL BELOW THE LOWEST LEVEL OF THE GEOGRID.
- UNDERCUT & SOIL REPLACEMENT SHALL BE DETERMINED BY THE ENGINEER ON SITE.
- STRUCTURAL FILL MATERIALS SHALL BE SELECTED GRAVELS FROM THE ROCK CUTTINGS OR AP65 WELL COMPACTED TO ENGINEERS SPECIFICATION.
- FOUNDING CONDITIONS TO BE CONFIRMED BY THE ENGINEER. ANY LOOSE/SOFT SPOTS TO BE CUT & REPLACED BY ENGINEERED FILL.
- ALL GEOGRIDS TO BE TESAR RE 580 OR EQUIVALENT APPROVED BY THE ENGINEER.



TYPICAL CROSS SECTION - TYPE 1 TERRAMESH GREEN WALL
 SCALE: 1:20 @ A1, 1:40 @ A3



TYPICAL CROSS SECTION - TYPE 2 TERRAMESH GREEN WALL
 SCALE: 1:20 @ A1, 1:40 @ A3



A SUBSOIL DRAIN DETAIL
 SCALE: 1:10 @ A1, 1:20 @ A3

REVISION	AMENDMENT	APPROVED	DATE
0A	ISSUED FOR TENDER	F.R.	2023-11-13
0B	ISSUED FOR RESOURCE CONSENT - S92 RESPONSE	F.R.	2024-01-19
0C	ISSUED FOR TENDER	F.R.	2024-01-31
0D	ISSUED FOR RESOURCE CONSENT - S92 RESPONSE	F.R.	2024-03-08



CIVIL

SCALES	DESIGNED	APPROVED
1:10, 20 (A1), 1:20, 40 (A3)	S. GABRIEL	F. RAHMAN
	S. ARUMUGAM	2024-03-08

TENDER

PROJECT	TITLE	WSP PROJECT NO. (SUB-PROJECT)	SHEET NO.	REVISION
WAKA KOTAHI NZ TRANSPORT AGENCY BOMBAY, AUCKLAND WEIGH RIGHT PROGRAMME - BOMBAY CVSC	RETAINING WALL DETAILS - SHEET 2 OF 2 TYPE 1 AND 2 - GREEN TERRAMESH WALL	5C4353-WSP-54-DR-	C-3011	0D