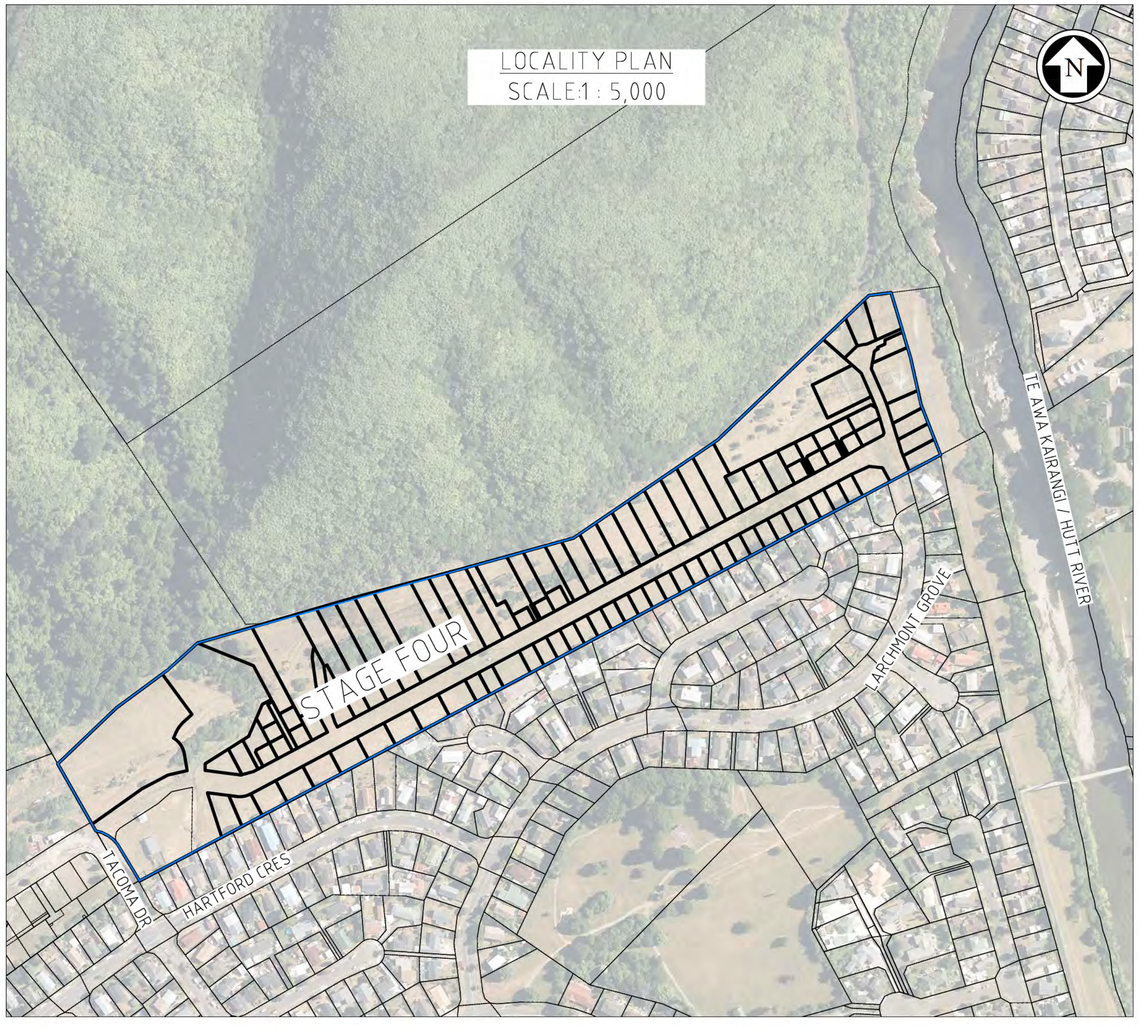
CIVIL ENGINEERING DESIGN
FOR APPROVAL

CANNON POINT - EAST BLOCK

TACOMA DRIVE, TOTORA PARK, UPPER HUTT

PROJECT REF: 26014



LOCATION PLAN
SCALE: 1:5000m

A1 REPRODUCTION SCALE 0 20 40 60 80 100 mm

A3 REPRODUCTION SCALE 0 10 20 30 40 50 mm

SCALE 1:2500 0 50 100

No.	Revision	By	Chk	Appd	Date
D	FOR APPROVAL	ZF	JM	JM	26.06.12
C	FOR APPROVAL	MD	JM	JM	26.05.29
B	FOR APPROVAL	MD	JM	JM	26.05.01
A	FOR APPROVAL	ZF	JM	JM	26.02.13

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Original Scale (A1)	AS SHOWN		
Reduced Scale (A3)	1/2 SHOWN		
Design	JD	26.02.17	Approved For Issue*
Drawn	ZF	26.02.17	
Dsg Verifier	JM	26.02.17	
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* Refer to Revision A for Original Signature

Client: CANNON POINT DEVELOPMENT LTD

Project: EAST BLOCK TACOMA DRIVE, TOTORA PARK UPPER HUTT

Title: COVER SHEET

Discipline: CIVIL

Vecta Ref. No.: 26014

Drawing No.: C000

Rev.: D

FOR APPROVAL
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Plotted By: Zed Fu

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C000	COVER SHEET AND LOCATION PLAN			A	B	C	D
C001	DRAWING LIST, AND TRANSMITTAL			A	B	C	D
C002	GENERAL NOTES, LEGEND AND ABBREVIATIONS SHEET			A	B	C	D
C100	EXISTING SITE PLAN - OVERVIEW			A	B	C	D
C101	EXISTING SITE PLAN - SHEET 1			A	B	C	D
C102	EXISTING SITE PLAN - SHEET 2			A	B	C	D
C103	EXISTING SITE PLAN - SHEET 3			A	B	C	D
C110	PROPOSED SITE PLAN - OVERVIEW			A	B	C	D
C111	PROPOSED SITE PLAN - SHEET 1			A	B	C	D
C112	PROPOSED SITE PLAN - SHEET 2			A	B	C	D
C113	PROPOSED SITE PLAN - SHEET 3			A	B	C	D
C200	BULK EARTHWORKS PLAN - OVERVIEW			A	B	C	D
C201	BULK EARTHWORKS PLAN - SHEET 1			A	B	C	D
C202	BULK EARTHWORKS PLAN - SHEET 2			A	B	C	D
C203	BULK EARTHWORKS PLAN - SHEET 3			A	B	C	D
C204	CROSS SECTIONS - SHEET 1			A	B	C	D
C205	CROSS SECTIONS - SHEET 2			A	B	C	D
C206	CROSS SECTIONS - SHEET 3			A	B	C	D
C210	EROSION & SEDIMENT CONTROL PLAN - OVERVIEW			A	B	C	D
C211	EROSION & SEDIMENT CONTROL PLAN - SHEET 1			A	B	C	D
C212	EROSION & SEDIMENT CONTROL PLAN - SHEET 2			A	B	C	D
C213	EROSION & SEDIMENT CONTROL PLAN - SHEET 3			A	B	C	D
C230	EROSION & SEDIMENT CONTROL DETAILS - SHEET 1			A	B	C	D
C231	EROSION & SEDIMENT CONTROL DETAILS - SHEET 2			A	B	C	D
C232	EROSION & SEDIMENT CONTROL DETAILS - SHEET 3			A	B	C	D
C233	EROSION & SEDIMENT CONTROL DETAILS - SHEET 4			A	B	C	D
C300	DRAINAGE PLAN OVERVIEW			A	B	C	D
C301	DRAINAGE PLAN - SHEET 1			A	B	C	D
C302	DRAINAGE PLAN - SHEET 2			A	B	C	D
C303	DRAINAGE PLAN - SHEET 3			A	B	C	D
C310	STORMWATER LONGITUDINAL SECTIONS - SHEET 1			A	B	C	D
C311	STORMWATER LONGITUDINAL SECTIONS - SHEET 2			A	B	C	D
C312	STORMWATER LONGITUDINAL SECTIONS - SHEET 3			A	B	C	D
C313	STORMWATER LONGITUDINAL SECTIONS - SHEET 4			A	B	C	D
C314	STORMWATER LONGITUDINAL SECTIONS - SHEET 5			A	B	C	D
C315	STORMWATER LONGITUDINAL SECTIONS - SHEET 6			A	B	C	D
C316	SEWER LONGITUDINAL SECTIONS - SHEET 1			A	B	C	D
C317	SEWER LONGITUDINAL SECTIONS - SHEET 2			A	B	C	D
C318	SEWER LONGITUDINAL SECTIONS - SHEET 3			A	B	C	D
C319	SEWER LONGITUDINAL SECTIONS - SHEET 4			-	-	C	D
C322	DRAINAGE DETAILS - SHEET 1			A	B	C	D
C323	DRAINAGE DETAILS - SHEET 2			A	B	C	D
C324	DRAINAGE DETAILS - SHEET 3			A	B	C	D
C325	DRAINAGE DETAILS - SHEET 4			A	B	C	D
C330	RAIN GARDEN DETAILS			A	B	C	D
C331	RAIN GARDEN CROSS SECTIONS			A	B	C	D
C360	PROPOSED CATCHMENT PLAN OVERVIEW			A	B	C	D
C361	PROPOSED CATCHMENT PLAN SHEET 1			A	B	C	D
C362	PROPOSED CATCHMENT PLAN SHEET 2			A	B	C	D
C363	PROPOSED CATCHMENT PLAN SHEET 3			A	B	C	D
C400	POTABLE WATER PLAN - OVERVIEW			A	B	C	D
C401	POTABLE WATER PLAN - SHEET 1			A	B	C	D
C402	POTABLE WATER PLAN - SHEET 2			A	B	C	D
C403	POTABLE WATER PLAN - SHEET 3			A	B	C	D
C410	POTABLE WATER TYPICAL DETAILS - SHEET 1			A	B	C	D
C411	POTABLE WATER TYPICAL DETAILS - SHEET 2			A	B	C	D
C412	POTABLE WATER TYPICAL DETAILS - SHEET 3			A	B	C	D
C420	POWER LINE PLAN - OVERVIEW			A	B	C	D
C430	POWER LINE LONGITUDINAL SECTION			A	B	C	D
C500	ROADING PLAN OVERVIEW			A	B	C	D
C501	ROADING PLAN - SHEET 1			A	B	C	D
C502	ROADING PLAN - SHEET 2			A	B	C	D
C503	ROADING PLAN - SHEET 3			A	B	C	D
C510	TYPICAL ROAD SECTIONS			A	B	C	D
C520	ROAD LONGITUDINAL SECTION SHEET 1			A	B	C	D
C521	ROAD LONGITUDINAL SECTION SHEET 2			A	B	C	D
C522	ROAD LONGITUDINAL SECTION SHEET 3			A	B	C	D
C523	ROAD LONGITUDINAL SECTION SHEET 4			A	B	C	D
C530	KERB RETURNS LONGITUDINAL SECTIONS SHEET 1			A	B	C	D
C531	KERB RETURNS LONGITUDINAL SECTIONS SHEET 2			A	B	C	D
C532	KERB RETURNS LONGITUDINAL SECTIONS SHEET 3			A	B	C	D
C540	ROAD CROSS SECTIONS SHEET 1			A	B	C	D
C541	ROAD CROSS SECTIONS SHEET 2			A	B	C	D
C542	ROAD CROSS SECTIONS SHEET 3			A	B	C	D
C543	ROAD CROSS SECTIONS SHEET 4			A	B	C	D
C544	ROAD CROSS SECTIONS SHEET 5			A	B	C	D
C545	ROAD CROSS SECTIONS SHEET 6			A	B	C	D
C546	ROAD CROSS SECTIONS SHEET 7			A	B	C	D

A1 REPRODUCTION SCALE 0mm 20 40 60 80 100

A3 REPRODUCTION SCALE 0mm 10 20 30 40 50

No.	Revision	By	Chk	Appd	Date
D	FOR APPROVAL	ZF	JM	JM	26.06.12
C	FOR APPROVAL	MD	JM	JM	26.05.29
B	FOR APPROVAL	ZF	JM	JM	26.05.08
A	FOR APPROVAL	ZF	JM	JM	26.02.13

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Dwg Check	JM	26.02.17

Approved For Issue* Date

* Refer to Revision A for Original Signature

Client: CANNON POINT DEVELOPMENT LTD

Project: EAST BLOCK
TACOMA DRIVE, TOTARA PARK
UPPER HUTT

Title: DRAWING LIST, AND TRANSMITTAL

Discipline: CIVIL

Vecta Ref. No.	Drawing No.	Rev.
26014	C001	D

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GENERAL NOTES

1. PIPES, CABLES AND OTHER UTILITIES, FOUNDATIONS, LEVELS, REFERENCE MARKS AND OTHER OBSTRUCTIONS INDICATED ON THIS DRAWING ARE BASED ONLY ON READILY AVAILABLE RECORD PLANS AND OTHER INFORMATION. THIS INFORMATION MAY NOT BE COMPLETE, ACCURATE OR UP TO DATE PRIOR TO CARRYING OUT ANY EXCAVATION OR OTHER PHYSICAL WORK, CONTRACTORS SHALL OBTAIN THE LATEST INFORMATION FROM UTILITY PROVIDERS AND CARRY OUT DETAILED EXPLORATORY WORK, TRACING, LOCATING, PROTECTION, ISOLATION AND ALTERATIONS AS REQUIRED. CONTRACTOR MUST FOLLOW WORKSAFE NZ GUIDELINES FOR SAFE LOCATION OF UNDERGROUND SERVICES.
2. PUBLIC SHALL BE ADEQUATELY NOTIFIED PRIOR TO WORKS COMMENCING, AND 24 HOURS PRIOR TO DISRUPTION OF SERVICE.
3. ALL CARE MUST BE TAKEN BY THE CONTRACTOR NOT TO DAMAGE PRIVATE PROPERTY, OR ANY GARDENED AREA OTHER THAN THOSE NECESSARY AS PART OF THE WORKS.
4. ALL WORKS ARE TO BE CONSTRUCTED USING BEST TRADE PRACTICES.
5. ALL WORKS TO BE CONSTRUCTED IN ACCORDANCE WITH THE CURRENT REGULATORY STANDARDS, NZ BUILDING CODE, AND MANUFACTURER'S SPECIFICATIONS.

UNDERGROUND GAS PIPES

MACHINE DIGGING
STRATEGIC INTERMEDIATE PRESSURE (FEEDER MAIN OPERATING AT PRESSURES GREATER THAN 700 KPa (100 psi) AND MEDIUM PRESSURE GAS PIPES

(A) MACHINE DIGGING IS NOT PERMITTED CLOSER THAN 1.0m FROM ANY STRATEGIC INTERMEDIATE PRESSURE AND MEDIUM PRESSURE GAS MAINS OR SERVICES. ANY EXCAVATION WORK WITHIN THE DISTANCE MUST BE PERFORMED BY HAND DIGGING AND UNDER THE OBSERVATION OF A POWERCO APPROVED WORKS PROTECTION OBSERVER INCLUDING THE BACKFILLING OPERATION.

(B) PLEASE REFER TO THE POWERCO STANDARD "EXCAVATION WORKS IN THE VICINITY OF STRATEGIC CABLES AND PIPES" BEFORE COMMENCING EXCAVATION WORK IN THE VICINITY OF STRATEGIC GAS PIPES.

MEDIUM AND LOW PRESSURE GAS PIPES

(C) MACHINE DIGGING IS NOT PERMITTED CLOSER THAN 500mm FROM ANY MEDIUM OR LOW PRESSURE GAS MAIN OR SERVICE UNLESS THE POSITION OF THE PIPES HAS BEEN VERIFIED BY HAND DIGGING AND EXPOSING THEM FIRST.

NOTIFICATION OF WORK NEAR STRATEGIC INTERMEDIATE PRESSURE AND MEDIUM PRESSURE GAS PIPES.

(A) AT LEAST 2 WORKING DAYS NOTICE MUST BE GIVEN TO POWERCO PRIOR TO ANY EXCAVATION WORK TAKING PLACE.

(B) IT IS THE EXCAVATION CONTRACTOR'S RESPONSIBILITY TO CONTACT THE POWERCO HELP DESK ON 0800 769 372 FOR THE ABOVE NOTIFICATION.

(C) THE EXCAVATION CONTRACTOR WILL BE ISSUED WITH A WORKS AGREEMENT WHICH MUST BE COMPLETED AND SIGNED PRIOR TO ANY EXCAVATION WORK TAKING PLACE NEAR ANY STRATEGIC INTERMEDIATE PRESSURE OR MEDIUM PRESSURE GAS PIPES.

LOCATION OF OTHERS SERVICES

(A) INTERMEDIATE PRESSURE GAS PIPES
NO SERVICES SHALL BE LAID CLOSER THAN 300mm FROM ANY INTERMEDIATE PRESSURE GAS PIPE

(B) LOW OR MEDIUM PRESSURE GAS PIPES
NO SERVICES SHALL BE LAID CLOSER THAN 150mm FROM ANY LOW OR MEDIUM PRESSURE GAS PIPE

UNDERGROUND POWER

AT LEAST 2 WORKING DAYS NOTICE REQUIRED PRIOR TO EXCAVATION. HAND DIGGING IS REQUIRED WHEN EXCAVATING WITHIN 1m OF CABLE. REPLACEMENT TRENCH BACKFILL MATERIAL MUST BE THE SAME AS THAT REMOVED AND MUST BE REPLACED TO THE SAME LEVEL OF COMPACTION.

UNDERGROUND TELECOM

ONSITE CABLE LOCATE OR STANDOVER IS REQUIRED IF WORKING WITHIN 1m OF THESE CABLES. AT LEAST 2 WORKING DAYS NOTICE REQUIRED PRIOR TO EXCAVATION. FOR LOCATE AND STANDOVER CONTACT 0800 248 344.

WATER NOTES

1. THE CONTRACTOR TO CHECK INVERT LEVELS OF EXISTING AND PROPOSED SYSTEM AND ADVISE ENGINEER OF ANY ANOMALIES PRIOR TO COMMENCING PIPE LAYING.
2. WATER MAIN IS TO BE SCOURED TO REMOVE ALL DEBRIS BEFORE COMMISSIONING TESTING AND SERVICES ARE CONNECTED TO HOUSES.
3. MINIMUM COVER OF 750mm AT ALL PLACES MEASURED FROM THE GROUND SURFACE. MAXIMUM COVER TO BE 1350mm.
4. CONCRETE THRUST BLOCKS TO BE CONSTRUCTED ON ALL BENDS,TAPERS, TEES AND DEAD ENDS, CONCRETE TO BE 20 MPa, THRUST BLOCKS TO BE CONSTRUCTED TO MAINTAIN ACCESS TO THE BOLTS, ADJACENT JOINTS / FLANGES AND FITTINGS CONCRETE THRUST BLOCKS TO BE SIZED AS PER THE CURRENT VERSION OF THE LOCAL ENGINEERING STANDARDS.
5. ALL BACKFILL MATERIAL SHOULD BE PLACED AND COMPACTED IN LAYERS NOT EXCEEDING 200mm IN LOOSE DEPTH.
6. THE CONTRACTOR SHALL CARRY OUT SCALA PENETROMETER TESTING AT NOT MORE THAN 5m DISTANCES ALONG TRENCH, THE RESULTS MUST BE RECORDED AND MADE AVAILABLE TO THE ENGINEER A COMPACTION OF NOT LESS THAN 7 BLOWS / 50mm, 4 BLOWS / 50mm AND 2 BLOWS / 50mm IN CARRIAGEWAYS, FOOTPATHS AND BERMS RESPECTIVELY MUST BE ACHIEVED.
7. DETECTOR TAPE MUST BE LAID ABOVE ALL WATER PIPES IN ACCORDANCE WITH THE SPECIFICATIONS
8. CONTRACTOR TO REMOVE ABANDONED VALVES AND HYDRANTS. NOTE ALL REINSTATEMENT IS TO COMPLY WITH NATIONAL CODE OF PRACTICE FOR UTILITY OPERATOR'S ACCESS TO TRANSPORT CORRIDORS.
9. LOCATION AND REQUIREMENTS FOR BENDS SHOWN ARE INDICATIVE. CONTRACTOR TO CONFIRM SPECIFIC LOCATIONS AND REQUIREMENTS WITH ENGINEER ON SITE.
10. SERVICE CONNECTION LOCATIONS ARE INDICATIVE ONLY, SERVICE PIPES SHALL BE LAID PERPENDICULAR TO THE MAIN. ALL SERVICE PIPES SHALL BE EXTENDED TO THE NEW MAIN.

SEWER / STORMWATER NOTES

1. THE CONTRACTOR IS TO ENSURE ALL WASTEWATER IS CONTAINED WITHIN THE SEWER SYSTEM. ANY OVERPUMPING IS TO BE ALLOWED FOR IN THE CONTRACT RATES. THERE ARE TO BE NO SEWAGE SPILLS IN PRIVATE PROPERTY.
2. THE CONTRACTOR IS TO ALLOW FOR ALL SHORING REQUIRED FOR TRENCHING IN ANY UNSTABLE GROUND WHICH MAY BE ENCOUNTERED.
3. THE LATERAL STUB POSITIONS TO BE CONFIRMED FROM CCTV BY THE CONTRACTOR. PRIOR TO RECONNECTION TO THE NEW PIPELINE, TESTS SHALL BE CARRIED OUT TO DETERMINE LIVE LATERALS. NO DEAD LATERALS SHALL BE CONNECTED.
4. EXISTING LAWN SHALL BE REMOVED AS TURF SLABS AND REINSTATED ON COMPLETION.
5. CONTRACTOR TO DEWATER AS NECESSARY TO COMPLETE THE WORKS.
6. CONTRACTOR TO REINSTATE ALL ROAD SURFACE MARKINGS AND RRPMs.
7. PROVIDE WATER STOPS ON STEEP SECTIONS IN ACCORDANCE WITH REGIONAL WATER SPECIFICATIONS.
8. EXISTING SEWER PIPES TO BE ABANDONED SHALL BE CAPPED OFF AT BOTH ENDS WITH A CONCRETE PLUG.
9. WHERE EXISTING MANHOLES ARE BEING REPLACED WITH NEW, THE CONTRACTOR SHALL RECONNECT ALL EXISTING PIPELINES TO THE NEW MANHOLE.
10. THE PIPELINES ARE TO BE CONSTRUCTED AT THE INVERT LEVELS SHOWN ON THE LONG SECTIONS, WITH DEPTHS TO INVERT AND PIPE GRADES PROVIDED FOR GUIDANCE ONLY. DEPTHS TO INVERT AND PIPE GRADES SHALL BE ADJUSTED BY THE CONTRACTOR IF NECESSARY TO ACHIEVE THE SPECIFIED INVERT LEVELS.
11. THE CONTRACTOR SHALL CHECK AND CONFIRM ALL EXISTING SEWER LOCATIONS AND LEVELS ON SITE AS AN INITIAL ACTIVITY, ADVISE THE ENGINEER FOR FURTHER INSTRUCTION SHOULD THESE DIFFER FROM THE INFORMATION SHOWN ON THE DRAWINGS.
12. ALL MANHOLES AFFECTED BY THE WORKS SHALL HAVE THEIR CONDITION REVIEWED BY THE CONTRACTOR AS AN INITIAL ACTIVITY INCLUDING A RECOMMENDATION AS TO WHETHER UPGRADE OR REPLACEMENT IS REQUIRED. THE ENGINEER SHALL INSTRUCT ON THE REQUIRED APPROACH THEN.

FILL

1. SITE TO BE CLEARED OF ALL TOPSOIL AND ANY ORGANIC MATERIAL THEN CUT TO A SERIES OF LEVEL BENCHES.
2. ENGINEER TO INSPECT PRIOR TO ANY FILL PLACEMENT.
3. FILL MATERIAL TO BE CRUSHED ROCK TOPCOURSE MATERIAL FREE OF ORGANIC MATERIAL FULLY COMPACTED TO 90% OF MAXIMUM DENSITY TO BS1377 TEST 9.
4. COMPACT IN MAXIMUM LAYERS OF 150mm THICK WITH A 2 TONNE ROLLER - TRACK ROLLING WITH A DIGGER IS NOT ACCEPTABLE.
5. ENGINEER TO INSPECT AND TEST EVERY 2ND LAYER PLACED (300mm INTERVALS).

ROADING

1. ALL PAVEMENT MATERIALS AND WORK STANDARDS TO BE IN ACCORDANCE WITH ALL RELEVANT NZ STANDARDS, TERRITORIAL AUTHORITY REGULATION INCLUDING THE CURRENT VERSION OF NZS 4404.
2. THE CONTRACTOR SHALL UNDERTAKE BENKELMAN BEAM TESTS ON THE FINISHED BASE COURSE ON ALL PAVEMENT AREAS AND PROVIDE RESULTS TO THE ENGINEER.
3. REINSTATE ALL DAMAGE TO ADJACENT FEATURES CAUSED BY THE WORKS.

CONCRETE

1. ALL CONCRETE WORK SHALL COMPLY WITH THE REQUIREMENTS OF NZS3109:1997 AND NZS 3114: 1987 FOR SURFACE FINISHES.
2. IF MAXIMUM HEIGHT DIMENSIONS VARY FROM THAT SHOWN CONTACT ENGINEER IMMEDIATELY. IT IS THE CONTRACTOR'S RESPONSIBILITY FOR THE SET OUT ON SITE AND DETERMINING ACTUAL WALL HEIGHTS AS THESE MAY VARY FROM THAT SHOWN.
3. CONCRETE SHALL HAVE A 28 DAY STRENGTH OF:
   25MPa - SLABS & FOOTINGS
   20MPa - PILES
   10MPa - TIDY SLABS
4. MAXIMUM SLUMP TO BE 100mm UNLESS TO NOTED OTHERWISE.
5. CONCRETE FINISHES SHALL BE:
   SLABS U3
   KERB AND CHANNEL U3
   EXPOSED FOOTINGS F4
   FOOTPATHS AND ACCESSWAYS U5
6. ALL REINFORCEMENT SHALL COMPLY WITH AS/NZS4671:2001 (HD BARS SHALL NOT BE REBENT).
7. THE CONCRETE SHALL BE KEPT CONTINUOUSLY WET FOR A PERIOD OF AT LEAST 4 DAYS. FROM 4-10 DAYS AFTER POURING IT SHALL BE KEPT DAMP BY OCCASIONAL HOSING.
8. ALL HOLD DOWN BOLTS SPECIFIED AS CHEMICAL ANCHORS TO BE DRILLED AND EPOXY GROUTED AFTER SLAB HAS CURED.
9. ALL CHEMICAL ANCHOR HOLES TO BE CLEANED OUT IN ACCORDANCE WITH MANUFACTURES INSTRUCTIONS.

HEALTH AND SAFETY

1. THE CONTRACTOR SHALL ESTABLISH, IMPLEMENT, AND MAINTAIN A COMPREHENSIVE HEALTH AND SAFETY MANAGEMENT PROGRAM TO ENSURE THAT ALL CONSTRUCTION ACTIVITIES ARE CARRIED OUT IN FULL COMPLIANCE WITH APPLICABLE HEALTH AND SAFETY REGULATIONS AND ALL OTHER RELEVANT STATUTORY REQUIREMENTS.
2. THE HEALTH AND SAFETY MANAGEMENT PROGRAM SHALL BE COORDINATED WITH ADJOINING PROPERTY OWNERS AND ALL RELEVANT STAKEHOLDERS TO ENSURE THE MAINTENANCE OF A SAFE CONSTRUCTION ENVIRONMENT AT ALL TIMES.
3. ASBESTOS CONTAINING MATERIAL (ACM)
   THE BUILDER IS RESPONSIBLE FOR IDENTIFYING ANY EXISTING ACM THAT MAY BE PRESENT PRIOR TO COMMENCING ANY WORKS, IDENTIFICATION, ASBESTOS MANAGEMENT PLAN, REMOVAL AND DEMOLITION SHALL BE CARRIED OUT AS PER:

   HEALTH AND SAFETY AT WORK (ASBESTOS) REGULATIONS 2016

SAFETY IN CONSTRUCTION

1. WORK SHALL BE CARRIED OUT IN ACCORDANCE WITH THE NEW ZEALAND HEALTH AND SAFETY AT WORK ACT 2015.
2. DURING CONSTRUCTION THE STRUCTURE AND EXCAVATIONS SHALL BE MAINTAINED IN SAFE AND STABLE CONDITIONS AT ALL TIMES AND NO PART SHALL BE OVERSTRESSED.
3. THE CONTRACTOR SHALL PROVIDE TEMPORARY WORKS SUCH AS BRACING, PROPPING AND SHORING AS NECESSARY, THE CONTRACTOR SHALL ENGAGE A STRUCTURAL ENGINEER TO DESIGN AND CERTIFY THE TEMPORARY WORKS.
4. THE OVERALL STABILITY OF THE STRUCTURE DURING CONSTRUCTION IS THE CONTRACTOR'S RESPONSIBILITIES.

POTENTIAL SITE HAZARDS

1. SITE SERVICES: ACCESS TO THE SITE, POWER, AND GAS.
2. WORKING AT HEIGHTS: WORKING ON TRENCHES, TEMPORARY WORKS AND SCAFFOLDS, AND LADDERS.
3. STABILITY OF GROUND CONDITIONS. REFER TO GEOTECHNICAL ENGINEER.
4. MOVING PLANTS AND MACHINERIES: OPERATING AREAS, CLEARANCES, COMMUNICATION, TRAFFIC, VEHICLES, AND TOOLS.
5. LIFTING: MANUAL LABOUR AND HANDLING, LOADING AND UNLOADING MATERIALS, MACHINE AND HAND EXCAVATIONS.
6. CRITICAL HEALTH RISKS: HAZARDOUS CHEMICALS, AND NOISE.
7. STAFF WELL-BEING: FATIGUE, MEDICAL EVENTS, ALCOHOL, AND DRUGS.

PIPE MATERIAL

CODE	DESCRIPTION
ABS	ACRYLONITRILE BUTADIENE STYRENE
AC	ASBESTOS CEMENT
AC-E	ASBESTOS CEMENT EVERITE
AC-I	ASBESTOS CEMENT ITALITE
AL	ALUMINIUM
CI	CAST IRON
CU	COPPER
DI	DUCTILE IRON
EW	EARTHEN WARE
GI	GALVANISED IRON
LBST	LOCKBAR STEEL
MPVC	MODIFIED POLYVINYL CHLORIDE
PE100	POLYETHYLENE HDPE
PE80	POLYETHYLENE MDPE
PVC	POLYVINYL CHLORIDE
RC	REINFORCED CONCRETE
SS	STAINLESS STEEL
MSCL	MILD STEEL CONCRETE LINED
UNK	UNKNOWN
UPVC	UNPLASTICISED POLYVINYL CHLORIDE

ROADING

CODE	DESCRIPTION
K&C	KERB AND CHANNEL
FP	FOOTPATH
NK	NIB KERB
MK	MOUNTABLE KERB
DC	DISH CHANNEL
VC	VEHICLE CROSSING
KR	KERB RETURN
EOS	EDGE OF SEAL

GENERAL ABBREVIATION

ABBV.	DESCRIPTION
PR	PROPOSED
EX	EXISTING
SS	SEWER
SW	STORMWATER
LHCE	LAMP HOLE CLEANING EYE
RW	RETAINING WALL

DISCLAIMERS

THE LOCATIONS OF EXISTING UNDERGROUND SERVICES DEPICTED ON VECTA DRAWINGS ARE BASED ON INFORMATION OBTAINED EITHER FROM THE DETAILED SITE SURVEY OR FROM RELEVANT AUTHORITIES. VECTA MAKES NO WARRANTY REGARDING THE ACCURACY OF THESE SERVICE LOCATIONS AND ACCEPTS NO RESPONSIBILITY FOR ANY ERRORS OR OMISSIONS. IT IS THE CONTRACTOR'S RESPONSIBILITY TO VERIFY THE PRECISE LOCATION AND EXTENT OF ALL SERVICES BEFORE COMMENCING CONSTRUCTION, AND TO INFORM THE ENGINEER OF ANY DISCREPANCIES OR UNLISTED SERVICES.

VECTA WILL NOT CERTIFY ANY WORK THAT HAS NOT BEEN CONSTRUCTED IN FULL COMPLIANCE WITH THE VECTA DRAWINGS

IMPORTANT SERVICES NOTE

THE SERVICES SHOWN SHOULD BE CONSIDERED INDICATIVE ONLY AND ARE BASED ON RECORDS SUPPLIED BY THE UTILITY COMPANIES. PRIVATE SERVICES AND CONNECTIONS ARE NOT SHOWN.

THE CONTRACTOR IS RESPONSIBLE FOR ENSURING THAT ALL SERVICES ARE LOCATED/MARKED BY THE APPROPRIATE SERVICE AUTHORITY, OR THEIR OWN STAFF, PRIOR TO ANY SITE WORKS, AND FOR PROTECTING THESE SERVICES FOR THE DURATION OF THE SITE CONTRACT.

WW SERVICES LEGEND

EXISTING PUBLIC SW
EXISTING PRIVATE SW
PROPOSED PUBLIC SW MAIN
PROPOSED PRIVATE SW MAIN
PROPOSED SW LOT CONN
EXISTING/PROPOSED SW SUMP
EXISTING PUBLIC SS MAIN
EXISTING PRIVATE SS MAIN
PROPOSED PUBLIC SS MAIN
PROPOSED PRIVATE SS MAIN
PROPOSED SS LOT CONN
PROPOSED SS RISING MAIN
EXISTING/PROPOSED PUMP
EXISTING SS/SW MANHOLE (TOPO)
EXISTING SS/SW MANHOLE (GIS)
PR PUBLIC SS/SW MANHOLE
PR PRIVATE SS/SW MANHOLE
EXISTING SS/SW LHCE
PROPOSED SS/SW LHCE
EXISTING WATER MAIN
PROPOSED WATER MAIN
EXISTING/PROPOSED VALVE
EXISTING/PROPOSED HYDRANT
EX/PROPOSED WATER METER
ABANDONED SERVICE

UTILITIES LEGEND

GAS
U/G POWER
O/H POWER / TROLLEY WIRE
TELECOMMS / CHORUS
POLE

ROADING LEGEND

100mm WIDE CONTINUOUS WHITE EDGE LINE/SOLID CENTRELINE
GIVE WAY LIMIT LINE 300mm WIDE REFLECTORISED WHITE
REFLECTORISED WHITE CONTINUITY LINE 1m STRIP, 3m GAP, 100mm WIDE
150mm WIDE REFLECTORISED WHITE HOLDING LINE
200mm WIDE REFLECTORISED WHITE HOLDING LINE
600mm WIDE FLUSH MEDIAN REFLECTORISED WHITE BARS
100mm WIDE REFLECTORISED WHITE CONTINUOUS CENTRELINE 3m STRIP, 7m GAP
NO STOPPING AT ALL TIMES (NSAAT), 100mm WIDE REFLECTORISED YELLOW, 1m STRIP, 1m GAP
200mm WIDE REFLECTORISED WHITE LINE
100mm WIDE REFLECTORISED YELLOW LINE
100mm WIDE YELLOW NO-OVERTAKING LINE
STOP LIMIT LINE 300mm WIDE REFLECTORISED YELLOW
SWALE DRAIN
DISH CHANNEL
EXISTING RETAINING WALL
PROPOSED RETAINING WALL

GENERAL LEGEND

EXISTING MAJOR CONTOURS
EXISTING MINOR CONTOURS
PROPOSED MAJOR CONTOURS
PROPOSED MINOR CONTOURS
EXISTING SITE BOUNDARY
PROPOSED SITE BOUNDARY
PROPOSED CULVERT
EXISTING CULVERT

FOR APPROVAL
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No.	Revision	By	Chk	Appd	Date
D	FOR APPROVAL	ZF	JM	JM	26.06.12
C	FOR APPROVAL	MD	JM	JM	26.05.29
B	FOR APPROVAL	MD	JM	JM	26.05.01
A	FOR APPROVAL	ZF	JM	JM	26.02.13

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Reduced Scale (A3) 1/2 SHOWN

Design	JD	26.02.13	Approved For Issue*
Drawn	ZF	26.02.13	
Dsg Verifier	JM	26.02.13	
Dwg Check	JM	26.02.13	Date

* Refer to Revision A for Original Signature

Client: CANNON POINT DEVELOPMENT LTD

Project: EAST BLOCK
TACOMA DRIVE, TOTARA PARK
UPPER HUTT

Title: LEGEND & GENERAL NOTES (CIVIL ENGINEERING SET)

Discipline: CIVIL
Vecta Ref. No. 26014
Drawing No. C001
Rev. D

A1 REPRODUCTION SCALE 0mm 20 40 60 80 100
A3 REPRODUCTION SCALE 0mm 10 20 30 40 50

Document Path: V:\PROJECT\2026\26014 CANNON POINT FAST TRACK\60 CAD\AUTOCAD\RESOURCE CONSENT - EAST BLOCK

Document No. 26014-C000-EB-COVER SHEET.DWG

Plotted By: Zed Fu

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Drawing Plotted: 12 Jun 2026 11:40 am

SEE SHEET C103

SEE SHEET C102

SEE SHEET C101

Council Reserve

NOTES:
1) EXISTING CONTOURS AT 1.0m INTERVALS.
2) REFER TO LEGENDS AND GENERAL NOTES SHEET C001.

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No.	Revision	By	Chk	Appd	Date
D	FOR APPROVAL	ZF	JM	JM	26.06.12
C	FOR APPROVAL	MD	JM	JM	26.05.29
B	FOR APPROVAL	ZF	JM	JM	26.05.04
A	FOR APPROVAL	ZF	JM	JM	26.02.16

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Reduced Scale (A3)	1/2 SHOWN	Drawn	ZF	26.02.16
		Dsg Verifier	JM	26.02.16
		Dwg Check	JM	26.02.16

Approved For Issue*
Date
* Refer to Revision A for Original Signature

Client: CANNON POINT DEVELOPMENT LTD

Project: EAST BLOCK
TACOMA DRIVE, TOTARA PARK
UPPER HUTT

Title: EXISTING SITE PLAN OVERVIEW

Discipline: CIVIL

Vecta Ref. No.	Drawing No.	Rev.
26014	C100	D

A1 REPRODUCTION SCALE 0 10 20 40 60 80 100 mm
A3 REPRODUCTION SCALE 0 10 20 30 40 50 mm
SCALE 1:1000

Plotted By: Zed Fu

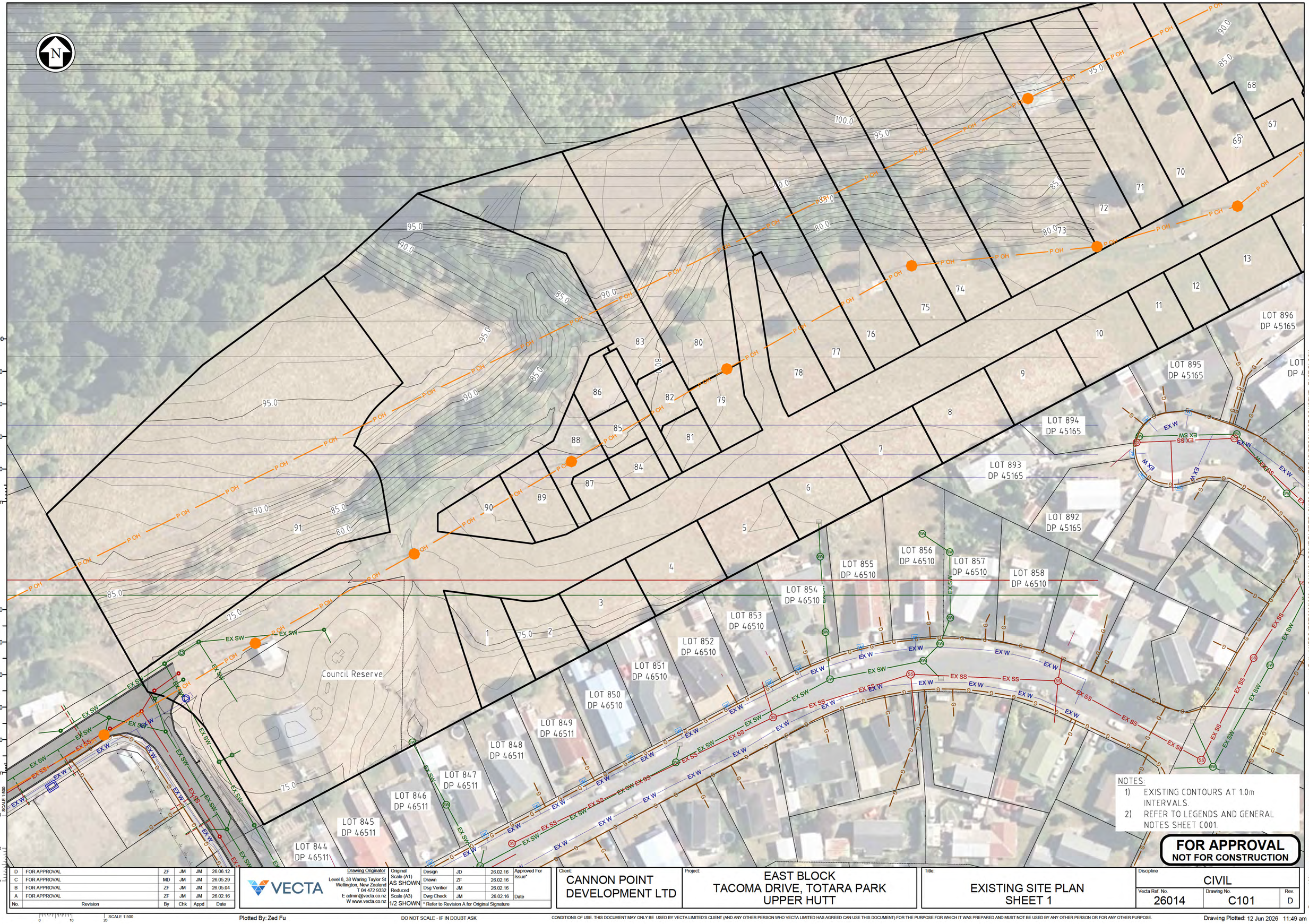
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Document No. 26014-C100-EB-EX SITE PLAN.DWG



No.	Revision	By	Chk	Appd	Date
D	FOR APPROVAL	ZF	JM	JM	26.06.12
C	FOR APPROVAL	MD	JM	JM	26.05.29
B	FOR APPROVAL	ZF	JM	JM	26.05.04
A	FOR APPROVAL	ZF	JM	JM	26.02.16

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Reduced Scale (A3)	1/2 SHOWN	Drawn	ZF	26.02.16
		Dsg Verifier	JM	26.02.16
		Dwg Check	JM	26.02.16

Approved For Issue* Date

* Refer to Revision A for Original Signature

Client: CANNON POINT DEVELOPMENT LTD

Project: EAST BLOCK TACOMA DRIVE, TOTARA PARK UPPER HUTT

Title: EXISTING SITE PLAN SHEET 1

Discipline: CIVIL

Vecta Ref. No.	Drawing No.	Rev.
26014	C101	D

A1 REPRODUCTION SCALE 0mm 20 40 60 80 100

A3 REPRODUCTION SCALE 0mm 10 20 30 40 50

SCALE 1:500 0 10 20

Plotted By: Zed Fu

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Document No. 26014-C100-EB-EX SITE PLAN.DWG

A1 REPRODUCTION SCALE
A3 REPRODUCTION SCALE
SCALE 1:500

NOTES:
1) EXISTING CONTOURS AT 1.0m INTERVALS.
2) REFER TO LEGENDS AND GENERAL NOTES SHEET C001.

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No.	Revision	By	Chk	Appd	Date
D	FOR APPROVAL	ZF	JM	JM	26.06.12
C	FOR APPROVAL	MD	JM	JM	26.05.29
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A	FOR APPROVAL	ZF	JM	JM	26.02.16

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Reduced Scale (A3)	1/2 SHOWN	Drawn	ZF	26.02.16
		Dsg Verifier	JM	26.02.16
		Dwg Check	JM	26.02.16

Approved For Issue* Date

* Refer to Revision A for Original Signature

Client: CANNON POINT DEVELOPMENT LTD

Project: EAST BLOCK
TACOMA DRIVE, TOTARA PARK
UPPER HUTT

Title: EXISTING SITE PLAN
SHEET 2

Discipline: CIVIL

Vecta Ref. No.	Drawing No.	Rev.
26014	C102	D

Plotted By: Zed Fu

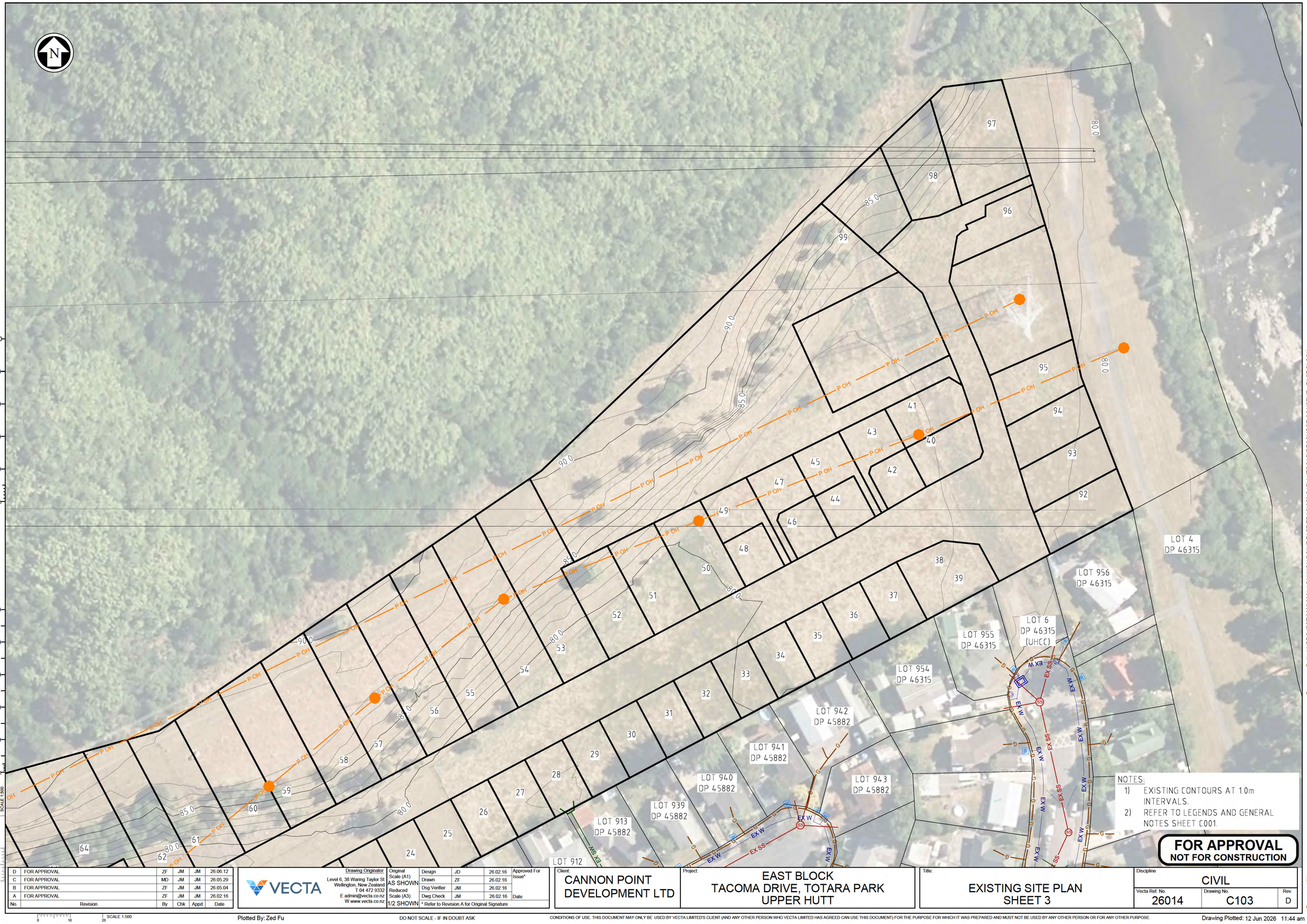
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NOTES:

1) EXISTING CONTOURS AT 1.0m INTERVALS.
2) REFER TO LEGENDS AND GENERAL NOTES SHEET C001.

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No.	Revision	By	Chk	Appd	Date
D	FOR APPROVAL	ZF	JM	JM	26.06.12
C	FOR APPROVAL	MD	JM	JM	26.05.29
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A	FOR APPROVAL	ZF	JM	JM	26.02.16

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Reduced Scale (A3)	1/2 SHOWN	Drawn	ZF	26.02.16
		Dsg Verifier	JM	26.02.16
		Dwg Check	JM	26.02.16

Approved For Issue* Date

* Refer to Revision A for Original Signature

Client: CANNON POINT DEVELOPMENT LTD

Project: EAST BLOCK
TACOMA DRIVE, TOTARA PARK
UPPER HUTT

Title: EXISTING SITE PLAN
SHEET 3

Discipline: CIVIL

Vecta Ref. No.	Drawing No.	Rev.
26014	C103	D

Document Path: V:\PROJECT\2026\26014 CANNON POINT FAST TRACK\50 CAD\AUTOCAD\RESOURCE CONSENT - EAST BLOCK

Document No. 26014-C100-EB-EX SITE PLAN.DWG

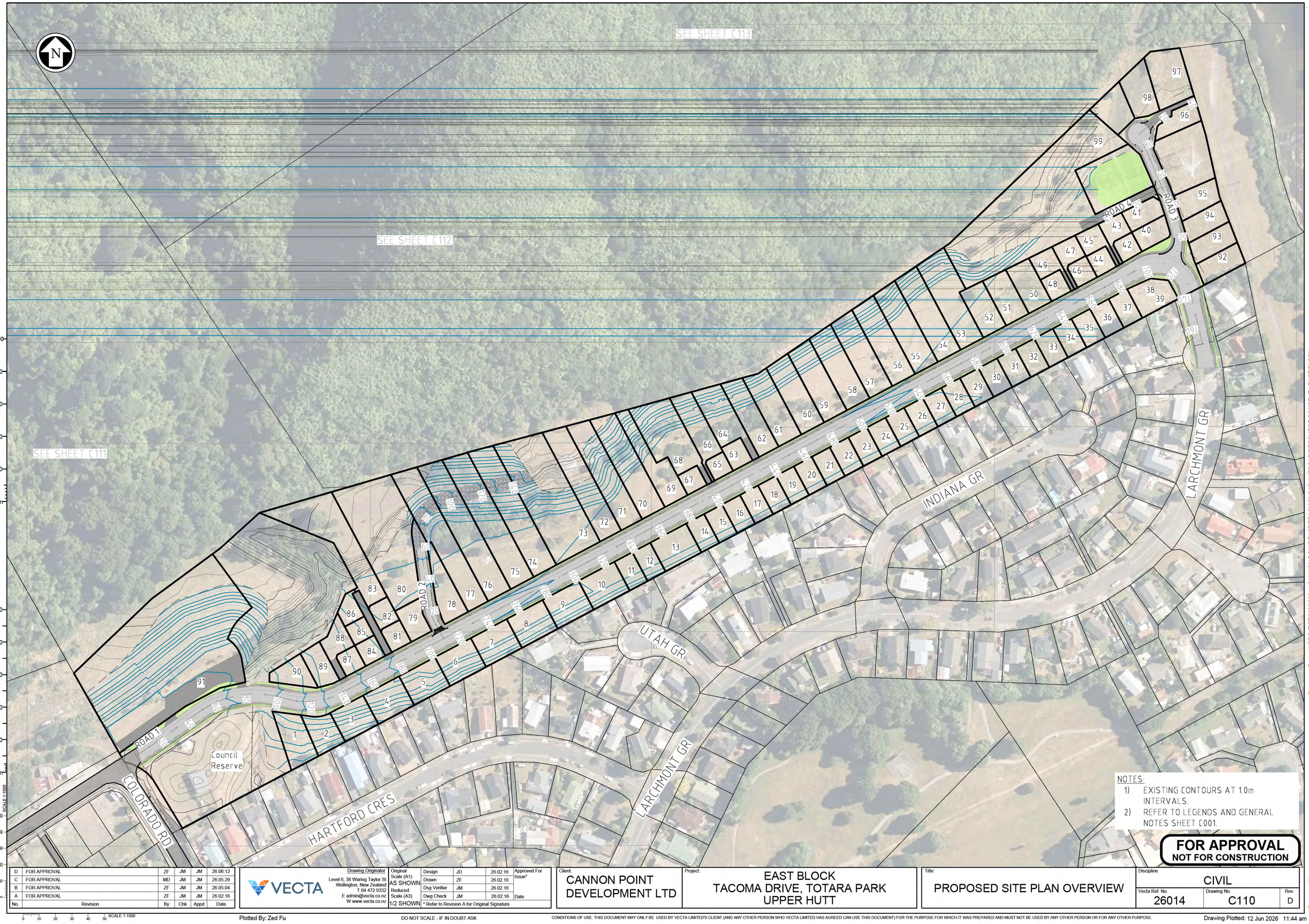
SCALE 1:500

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C	FOR APPROVAL	MD	JM	JM	26.05.29
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Reduced Scale (A3)	1/2 SHOWN	Date	
Design	JD	26.02.16	
Drawn	ZF	26.02.16	
Dsg Verifier	JM	26.02.16	
Dwg Check	JM	26.02.16	

* Refer to Revision A for Original Signature

Client: CANNON POINT DEVELOPMENT LTD

Project: EAST BLOCK
TACOMA DRIVE, TOTARA PARK
UPPER HUTT

Title: PROPOSED SITE PLAN OVERVIEW

Discipline: CIVIL

Vecta Ref. No.	Drawing No.	Rev.
26014	C110	D

A1 REPRODUCTION SCALE 0 10 20 40 60 80 100mm
A3 REPRODUCTION SCALE 0 10 20 30 40 50mm
SCALE 1:1000
0 10 20 30 40 50 SCALE 1:1000

Plotted By: Zed Fu

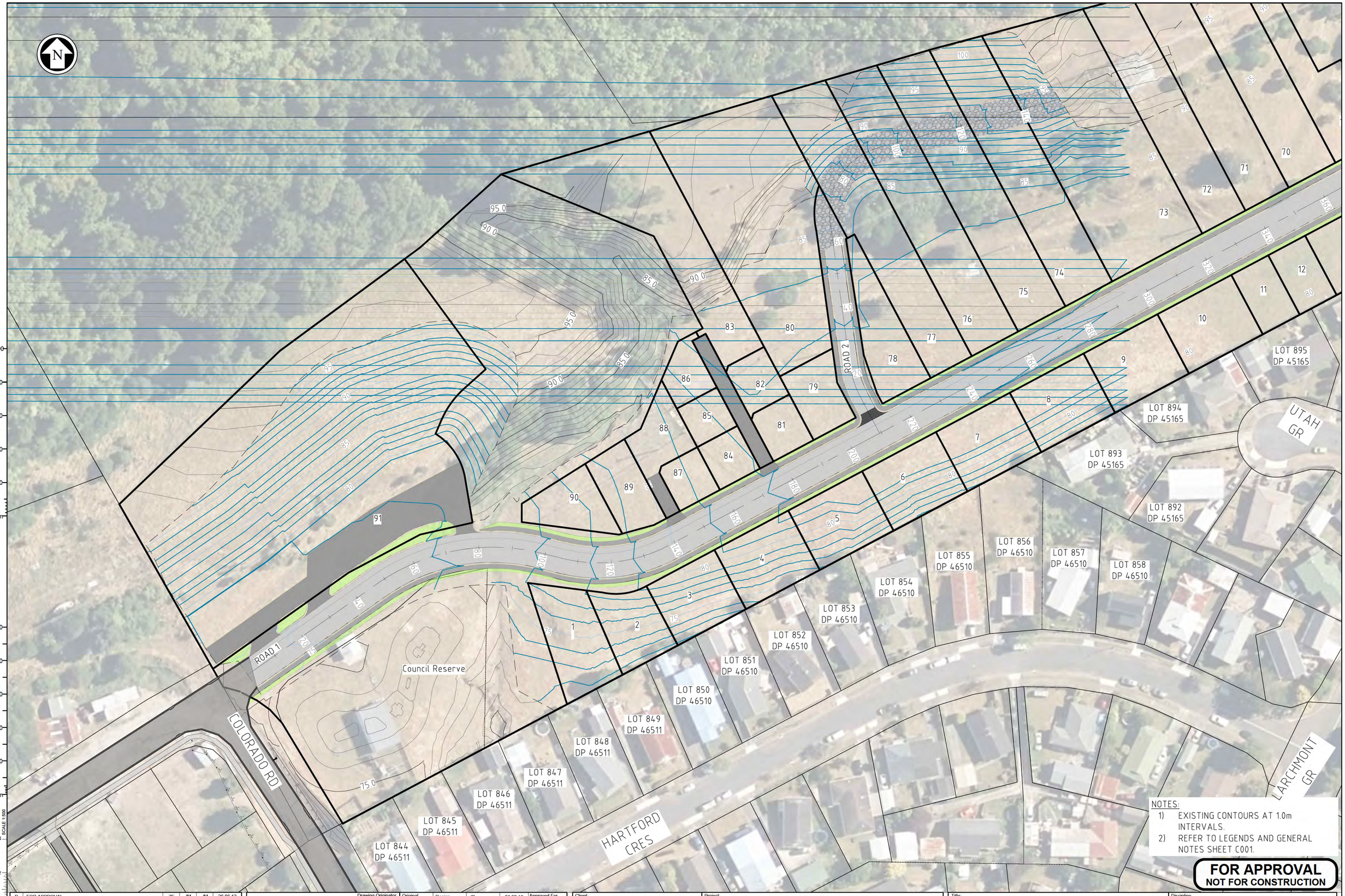
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Document No. 26014-C110-EB-PROPOSED SITE PLAN.DWG



A1 REPRODUCTION SCALE
A3 REPRODUCTION SCALE
SCALE 1:500

NOTES:
1) EXISTING CONTOURS AT 1.0m INTERVALS.
2) REFER TO LEGENDS AND GENERAL NOTES SHEET C001.

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No.	Revision	By	Chk	Appd	Date
D	FOR APPROVAL	ZF	JM	JM	26.06.12
C	FOR APPROVAL	MD	JM	JM	26.05.29
B	FOR APPROVAL	ZF	JM	JM	26.05.04
A	FOR APPROVAL	ZF	JM	JM	26.02.16

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Original Scale (A1)	AS SHOWN		
Reduced Scale (A3)	1/2 SHOWN		
Design	JD	26.02.16	Approved For Issue*
Drawn	ZF	26.02.16	
Dsg Verifier	JM	26.02.16	
Dwg Check	JM	26.02.16	Date

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Client: CANNON POINT DEVELOPMENT LTD

Project: EAST BLOCK
TACOMA DRIVE, TOTARA PARK
UPPER HUTT

Title: PROPOSED SITE PLAN
SHEET 1

Discipline: CIVIL

Vecta Ref. No.	Drawing No.	Rev.
26014	C111	D

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Drawing Plotted: 12 Jun 2026 11:41 am

A1 REPRODUCTION SCALE
100
80
60
40
20
0mm

A3 REPRODUCTION SCALE
50
40
30
20
10
0mm

SCALE 1:500
20
10
0

N

LOT 913 DP 45882
LOT 912 DP 45882
LOT 911 DP 45882
LOT 910 DP 45882
LOT 909 DP 45882
LOT 908 DP 45882
LOT 907 DP 45882
LOT 902 DP 45164
LOT 901 DP 45164
LOT 896 DP 45165
LOT 897 DP 45165
LOT 895 DP 45165
LOT 894 DP 45165

INDIANA GR
UTAH GR
ROAD 2

NOTES:
1) EXISTING CONTOURS AT 1.0m INTERVALS.
2) REFER TO LEGENDS AND GENERAL NOTES SHEET C001.

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No.	Revision	By	Chk	Appd	Date
D	FOR APPROVAL	ZF	JM	JM	26.06.12
C	FOR APPROVAL	MD	JM	JM	26.05.29
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Reduced Scale (A3)	1/2 SHOWN	Drawn	ZF 26.02.16
		Dsg Verifier	JM 26.02.16
		Dwg Check	JM 26.02.16

Approved For Issue* Date
* Refer to Revision A for Original Signature

Client: CANNON POINT DEVELOPMENT LTD

Project: EAST BLOCK
TACOMA DRIVE, TOTARA PARK
UPPER HUTT

Title: PROPOSED SITE PLAN
SHEET 2

Discipline: CIVIL

Vecta Ref. No.	Drawing No.	Rev.
26014	C112	D

Document Path: V:\PROJECT\2026\26014 CANNON POINT FAST TRACK\50 CAD\AUTOCAD\RESOURCE CONSENT - EAST BLOCK

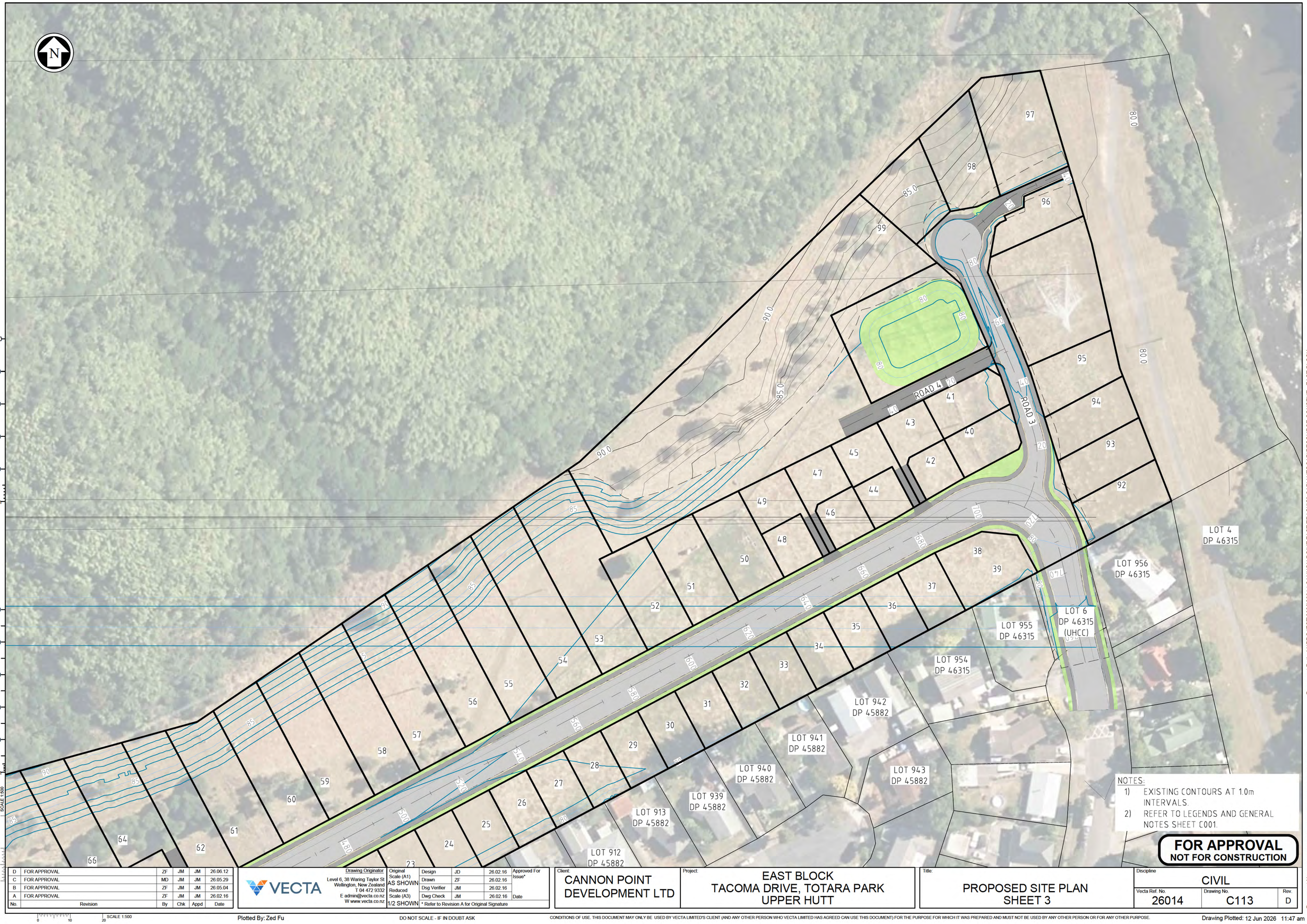
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A1 REPRODUCTION SCALE
100 80 60 40 20 0mm

A3 REPRODUCTION SCALE
50 40 30 20 10 0mm

SCALE 1:500
0 10 20

No.	Revision	By	Chk	Appd	Date
D	FOR APPROVAL	ZF	JM	JM	26.06.12
C	FOR APPROVAL	MD	JM	JM	26.05.29
B	FOR APPROVAL	ZF	JM	JM	26.05.04
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Original Scale (A1)	AS SHOWN		
Reduced Scale (A3)	1/2 SHOWN		
Design	JD	26.02.16	Approved For Issue*
Drawn	ZF	26.02.16	
Dsg Verifier	JM	26.02.16	
Dwg Check	JM	26.02.16	Date

* Refer to Revision A for Original Signature

Client: CANNON POINT DEVELOPMENT LTD

Project: EAST BLOCK
TACOMA DRIVE, TOTARA PARK
UPPER HUTT

Title: PROPOSED SITE PLAN
SHEET 3

Discipline: CIVIL

Vecta Ref. No.	Drawing No.	Rev.
26014	C113	D

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SEE SHEET C203

SEE SHEET C202

SEE SHEET C201

ROAD 1

ROAD 2

ROAD 3

ROAD 4

A 204

B 204

C 204

D 205

E 205

F 205

G 206

H 206

I 206

COLORADO RD

HARTFORD CRES

UTAH GR

LARCHMONT GR

INDIANA GR

LARCHMONT GR

A3 REPRODUCTION SCALE 0mm 10 20 30 40 50

A1 REPRODUCTION SCALE 0mm 20 40 60 80 100

SCALE 1:1000

No.	Revision	By	Chk	Appd	Date
D	FOR APPROVAL	ZF	JM	JM	26.06.12
C	FOR APPROVAL	MD	JM	JM	26.05.29
B	FOR APPROVAL	MD	JM	JM	26.04.30
A	FOR APPROVAL	ZF	JM	JM	26.02.16

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		Dsg Verifier	JM	26.02.16	
		Dwg Check	JM	26.02.16	Date

* Refer to Revision A for Original Signature

Client: CANNON POINT DEVELOPMENT LTD

Project: EAST BLOCK
TACOMA DRIVE, TOTARA PARK
UPPER HUTT

Title: BULK EARTHWORKS PLAN OVERVIEW

Discipline: CIVIL

Vecta Ref. No.	Drawing No.	Rev.
26014	C200	D

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Plotted By: Zed Fu

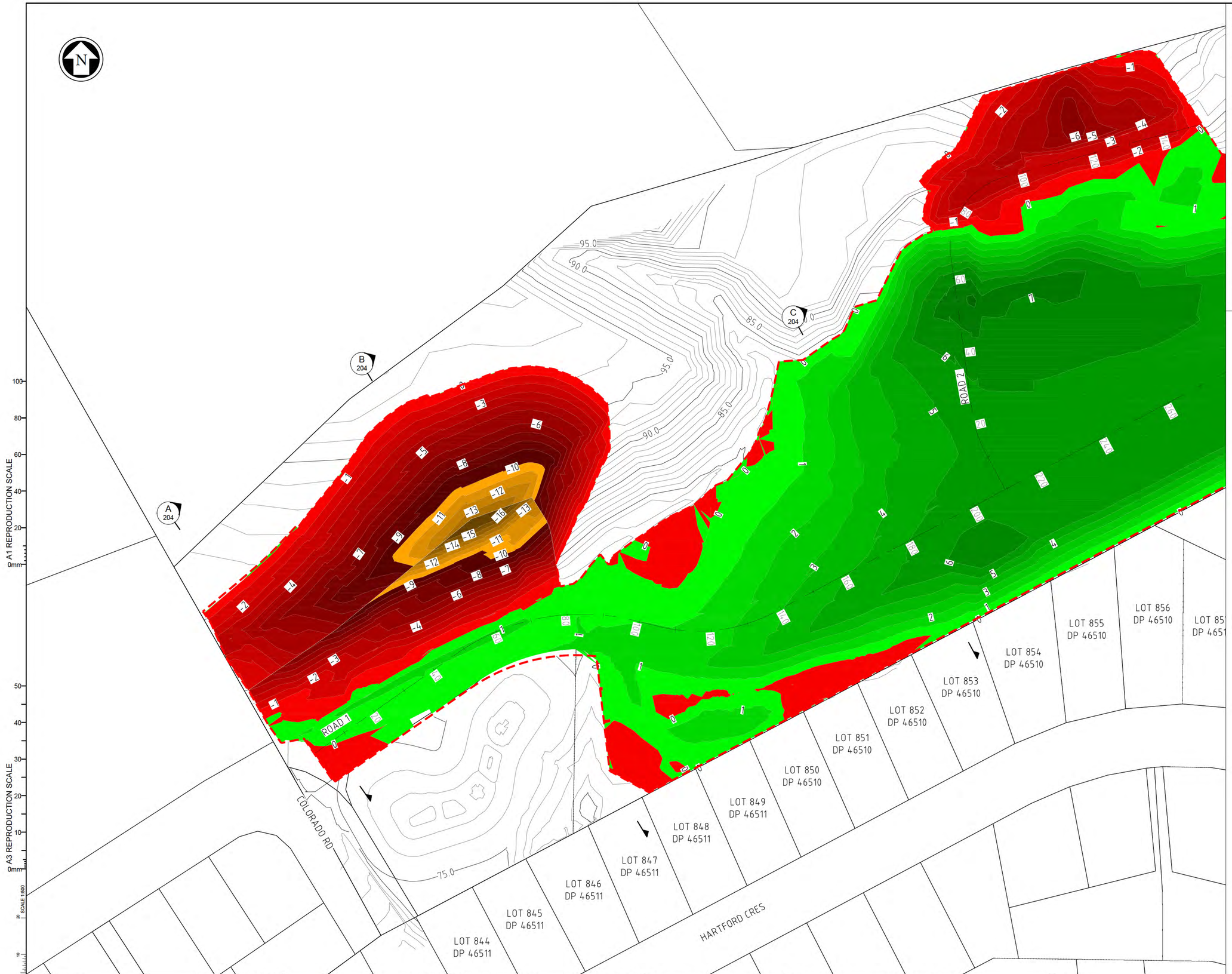
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Drawing Plotted: 12 Jun 2026 11:38 am

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Document No. 26014-C200-EW PLAN_.DWG



BULK EARTHWORKS:
CUT = 85,150m³
FILL = 94,222m³
THEREFORE EXCESS FILL = 9,072m³

CUT AREA = 26,948m²
FILL AREA = 38,452m²
TOTAL EARTHWORKS AREA = 65,400m²

MAXIMUM CUT HEIGHT = 17m
MAXIMUM FILL HEIGHT = 9m

BULK EARTHWORKS NOTES:

1) VOLUMES BASED ON EXISTING GROUND LEVELS TO DESIGN FINISHED LEVELS.
2) TOPSOIL NOT ALLOWED FOR.
3) PAVEMENT SUBGRADE NOT ALLOWED FOR.
4) BULKING FACTORS NOT ALLOWED FOR.

NOTES:
1) EXISTING CONTOURS AT 1.0m INTERVALS.
2) DEPTH CONTOURS AT 1.0m INTERVALS.

DEPTH RANGE KEY

Lower value		Upper value		Colour
-17	to	-16	m	
-16	to	-15	m	
-15	to	-14	m	
-14	to	-13	m	
-13	to	-12	m	
-12	to	-11	m	
-11	to	-10	m	
-10	to	-9	m	
-9	to	-8	m	
-8	to	-7	m	
-7	to	-6	m	
-6	to	-5	m	
-5	to	-4	m	
-4	to	-3	m	
-3	to	-2	m	
-2	to	-1	m	
-1	to	0	m	
0	to	1	m	
1	to	2	m	
2	to	3	m	
3	to	4	m	
4	to	5	m	
5	to	6	m	
6	to	7	m	
7	to	8	m	
8	to	9	m	

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No.	Revision	By	Chk	Appd	Date
D	FOR APPROVAL	ZF	JM	JM	26.06.12
C	FOR APPROVAL	MD	JM	JM	26.05.29
B	FOR APPROVAL	MD	JM	JM	26.04.30
A	FOR APPROVAL	ZF	JM	JM	26.02.16

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Reduced Scale (A3)	1/2 SHOWN	Drawn	ZF	26.02.16
		Dsg Verifier	JM	26.02.16
		Dwg Check	JM	26.02.16

Approved For Issue* Date
* Refer to Revision A for Original Signature

Client: CANNON POINT DEVELOPMENT LTD

Project: EAST BLOCK
TACOMA DRIVE, TOTARA PARK
UPPER HUTT

Title: BULK EARTHWORKS PLAN
SHEET 1

Discipline: CIVIL

Vecta Ref. No.	Drawing No.	Rev.
26014	C201	D

A1 REPRODUCTION SCALE 0mm 20 40 60 80 100
A3 REPRODUCTION SCALE 0mm 10 20 30 40 50
SCALE 1:500 0 10 20
SCALE 1:500

Plotted By: Zed Fu

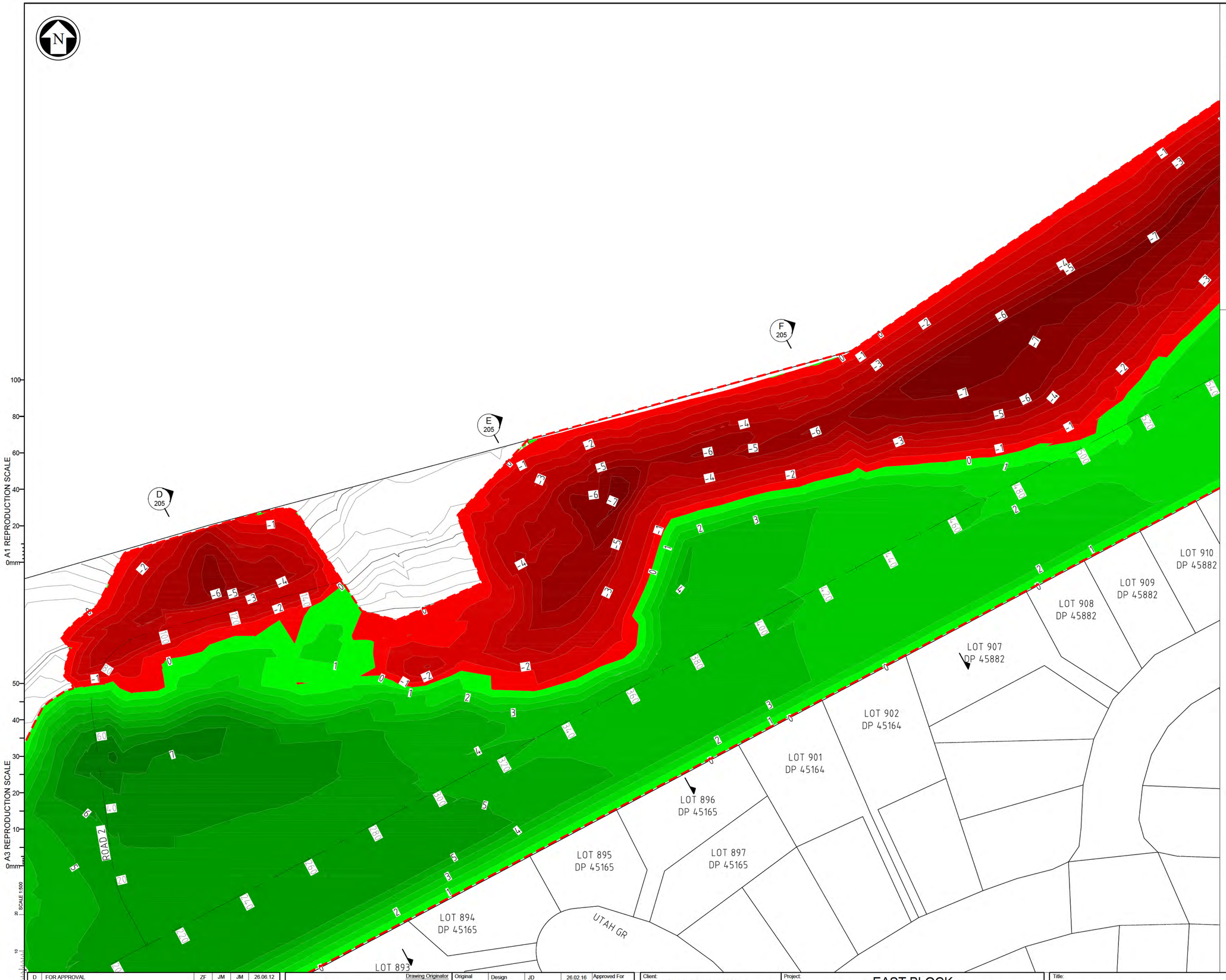
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Document Path: V:\PROJECT\2026\26014 CANNON POINT FAST TRACK\60 CAD\AUTOCAD\RESOURCE CONSENT - EAST BLOCK

Document No. 26014-C200-EW PLAN_.DWG



A1 REPRODUCTION SCALE 0mm 20 40 60 80 100

A3 REPRODUCTION SCALE 0mm 10 20 30 40 50

SCALE 1:500 0 10 20

BULK EARTHWORKS:

CUT = 85,150m³
FILL = 94,222m³
THEREFORE EXCESS FILL = 9,072m³

CUT AREA = 26,948m²
FILL AREA = 38,452m²
TOTAL EARTHWORKS AREA = 65,400m²

MAXIMUM CUT HEIGHT = 17m
MAXIMUM FILL HEIGHT = 9m

BULK EARTHWORKS NOTES:

1) VOLUMES BASED ON EXISTING GROUND LEVELS TO DESIGN FINISHED LEVELS.
2) TOPSOIL NOT ALLOWED FOR.
3) PAVEMENT SUBGRADE NOT ALLOWED FOR.
4) BULKING FACTORS NOT ALLOWED FOR.

NOTES:

1) EXISTING CONTOURS AT 1.0m INTERVALS.
2) DEPTH CONTOURS AT 1.0m INTERVALS.

DEPTH RANGE KEY

Lower value		Upper value		Colour
-17	to	-16	m	
-16	to	-15	m	
-15	to	-14	m	
-14	to	-13	m	
-13	to	-12	m	
-12	to	-11	m	
-11	to	-10	m	
-10	to	-9	m	
-9	to	-8	m	
-8	to	-7	m	
-7	to	-6	m	
-6	to	-5	m	
-5	to	-4	m	
-4	to	-3	m	
-3	to	-2	m	
-2	to	-1	m	
-1	to	0	m	
0	to	1	m	
1	to	2	m	
2	to	3	m	
3	to	4	m	
4	to	5	m	
5	to	6	m	
6	to	7	m	
7	to	8	m	
8	to	9	m	

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No.	Revision	By	Chk	Appd	Date
D	FOR APPROVAL	ZF	JM	JM	26.06.12
C	FOR APPROVAL	MD	JM	JM	26.05.29
B	FOR APPROVAL	MD	JM	JM	26.04.30
A	FOR APPROVAL	ZF	JM	JM	26.02.16

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Reduced Scale (A3)	1/2 SHOWN	Drawn	ZF	26.02.16
		Dsg Verifier	JM	26.02.16
		Dwg Check	JM	26.02.16

Approved For Issue* Date
* Refer to Revision A for Original Signature

Client: CANNON POINT DEVELOPMENT LTD

Project: EAST BLOCK
TACOMA DRIVE, TOTARA PARK
UPPER HUTT

Title: BULK EARTHWORKS PLAN
SHEET 2

Discipline: CIVIL

Vecta Ref. No.	Drawing No.	Rev.
26014	C202	D

Document Path: V:\PROJECT\2026\26014 CANNON POINT FAST TRACK\50 CAD\AUTOCAD\RESOURCE CONSENT - EAST BLOCK

Document No. 26014-C200-EW PLAN_ DWG

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BULK EARTHWORKS:

CUT = 85,150m³
FILL = 94,222m³
THEREFORE EXCESS FILL = 9,072m³

CUT AREA = 26,948m²
FILL AREA = 38,452m²
TOTAL EARTHWORKS AREA = 65,400m²

MAXIMUM CUT HEIGHT = 17m
MAXIMUM FILL HEIGHT = 9m

BULK EARTHWORKS NOTES:

1) VOLUMES BASED ON EXISTING GROUND LEVELS TO DESIGN FINISHED LEVELS.
2) TOPSOIL NOT ALLOWED FOR.
3) PAVEMENT SUBGRADE NOT ALLOWED FOR.
4) BULKING FACTORS NOT ALLOWED FOR.

NOTES:

1) EXISTING CONTOURS AT 1.0m INTERVALS.
2) DEPTH CONTOURS AT 1.0m INTERVALS.

DEPTH RANGE KEY

Lower value		Upper value		Colour
-17	to	-16	m	
-16	to	-15	m	
-15	to	-14	m	
-14	to	-13	m	
-13	to	-12	m	
-12	to	-11	m	
-11	to	-10	m	
-10	to	-9	m	
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7	to	8	m	
8	to	9	m	

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No.	Revision	By	Chk	Appd	Date
D	FOR APPROVAL	ZF	JM	JM	26.06.12
C	FOR APPROVAL	MD	JM	JM	26.05.29
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A	FOR APPROVAL	ZF	JM	JM	26.02.16

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Reduced Scale (A3)	1/2 SHOWN	Drawn	ZF	26.02.16
		Dsg Verifier	JM	26.02.16
		Dwg Check	JM	26.02.16

Approved For Issue* Date

* Refer to Revision A for Original Signature

Client: CANNON POINT DEVELOPMENT LTD

Project: EAST BLOCK
TACOMA DRIVE, TOTARA PARK
UPPER HUTT

Title: BULK EARTHWORKS PLAN
SHEET 3

Discipline: CIVIL

Vecta Ref. No.	Drawing No.	Rev.
26014	C203	D

A1 REPRODUCTION SCALE 0mm 20 40 60 80 100
A3 REPRODUCTION SCALE 0mm 10 20 30 40 50
SCALE 1:500 0 10 20

Plotted By: Zed Fu

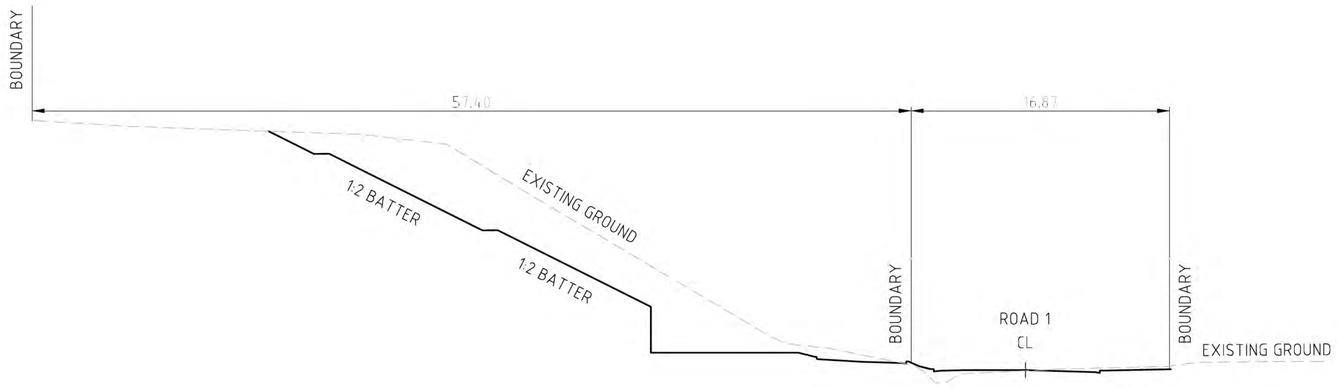
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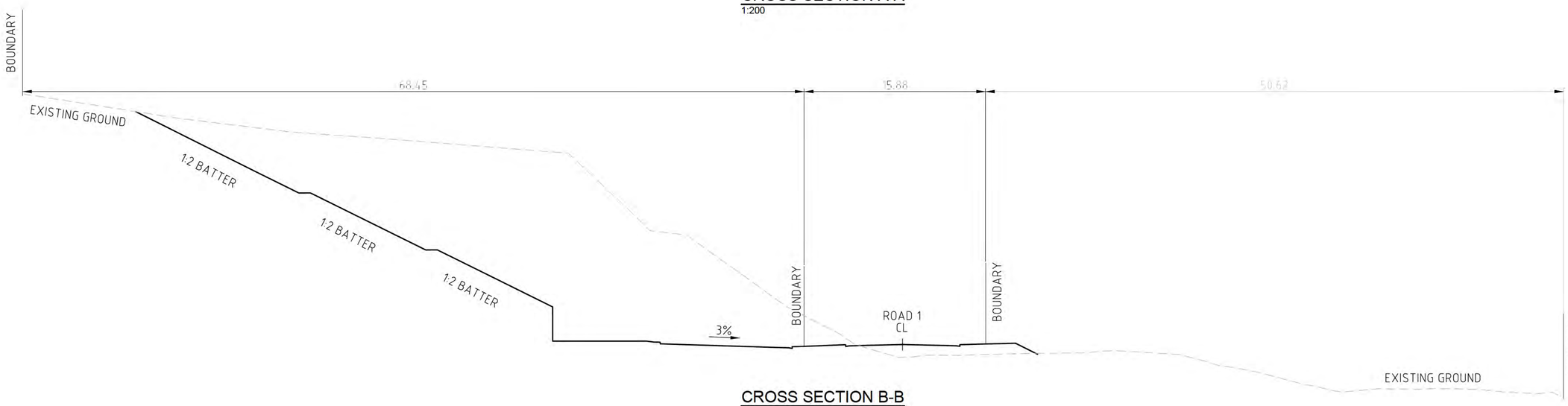
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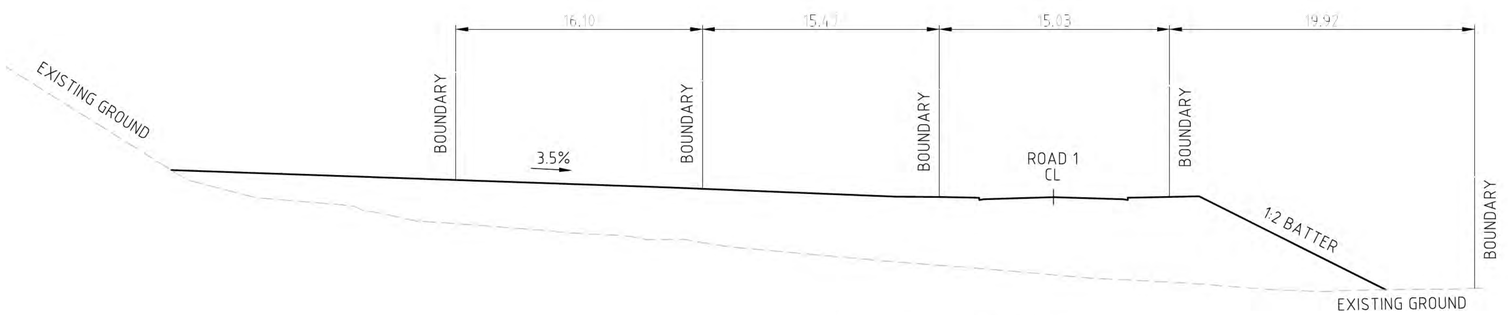
Document No. 26014-C200-EW PLAN_DWG



CROSS SECTION A-A
1:200



CROSS SECTION B-B
1:200



CROSS SECTION C-C
1:200

A1 REPRODUCTION SCALE
100 80 60 40 20 0mm

A3 REPRODUCTION SCALE
50 40 30 20 10 0mm

SCALE 1:200
10 8 6 4 2 0

0 2 4 6 8 10 SCALE 1:200

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No.	Revision	By	Chk	Appd	Date
D	FOR APPROVAL	ZF	JM	JM	26.06.12
C	FOR APPROVAL	MD	JM	JM	26.05.29
B	FOR APPROVAL	MD	JM	JM	26.04.30
A	FOR APPROVAL	ZF	JM	JM	26.02.16

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Reduced Scale (A3)	1/2 SHOWN	Drawn	ZF	26.02.16
		Dsg Verifier	JM	26.02.16
		Dwg Check	JM	26.02.16

Approved For Issue* — Date
* Refer to Revision A for Original Signature

Client: CANNON POINT DEVELOPMENT LTD

Project: EAST BLOCK
TACOMA DRIVE, TOTARA PARK
UPPER HUTT

Title: CROSS SECTIONS
A-A, B-B & C-C

Discipline: CIVIL

Vecta Ref. No.	Drawing No.	Rev.
26014	C204	D

Plotted By: Zed Fu

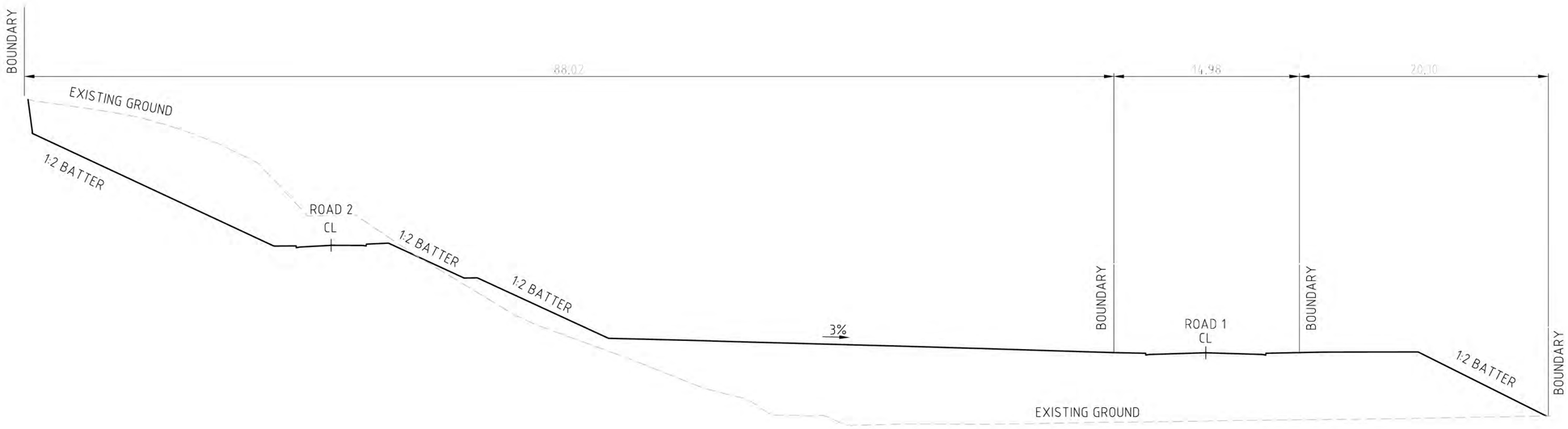
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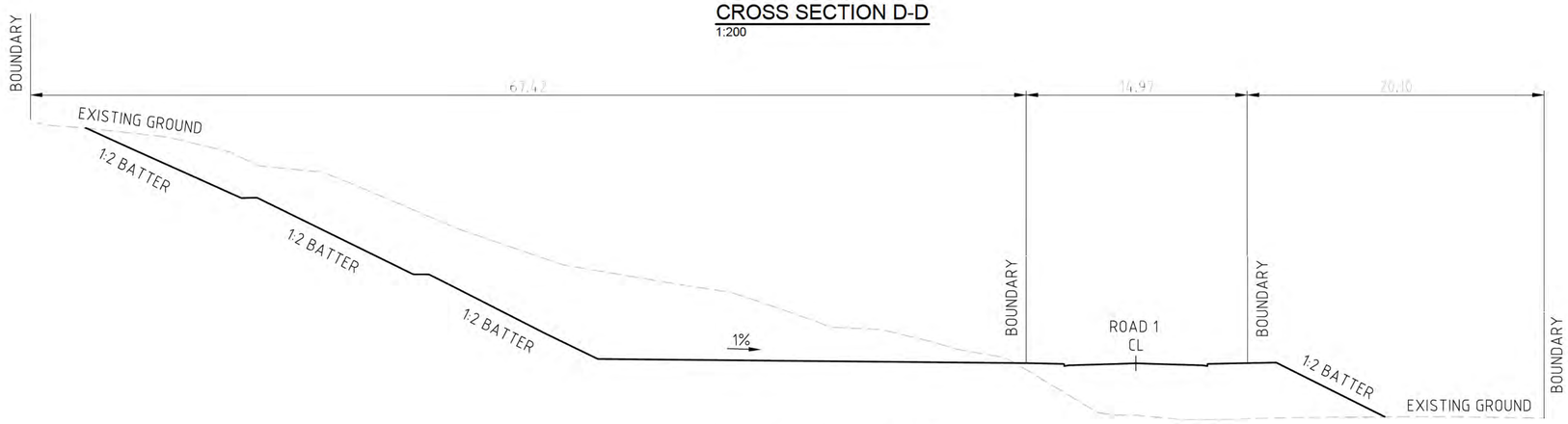
Drawing Plotted: 12 Jun 2026 11:41 am

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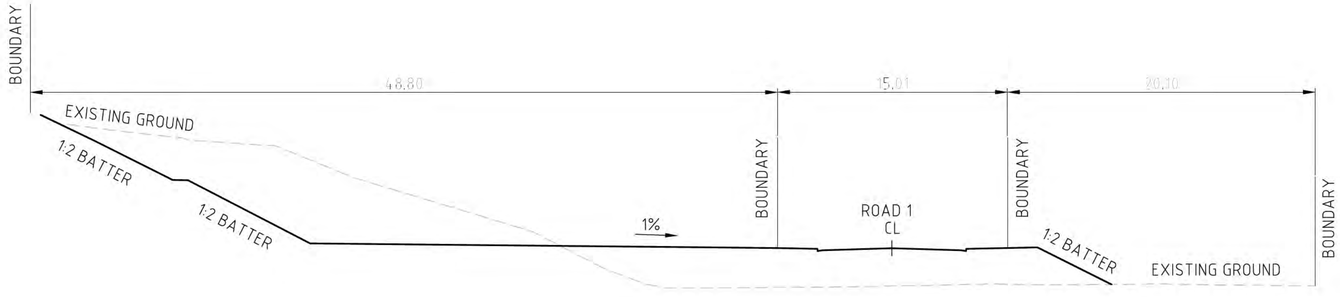
Document No. 26014-C204-EEB-EW-XS.DWG



CROSS SECTION D-D
1:200



CROSS SECTION E-E
1:200



CROSS SECTION F-F
1:200

A1 REPRODUCTION SCALE
A3 REPRODUCTION SCALE
SCALE 1:200

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No.	Revision	By	Chk	Appd	Date
D	FOR APPROVAL	ZF	JM	JM	26.06.12
C	FOR APPROVAL	MD	JM	JM	26.05.29
B	FOR APPROVAL	MD	JM	JM	26.04.30
A	FOR APPROVAL	ZF	JM	JM	26.02.16

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		Drawn	ZF	26.02.16
Reduced Scale (A3)	1/2 SHOWN	Dsg Verifier	JM	26.02.16
		Dwg Check	JM	26.02.16

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Client: CANNON POINT DEVELOPMENT LTD

Project: EAST BLOCK
TACOMA DRIVE, TOTARA PARK
UPPER HUTT

Title: CROSS SECTIONS D-D, E-E & F-F

Discipline: CIVIL

Vecta Ref. No.	Drawing No.	Rev.
26014	C205	D

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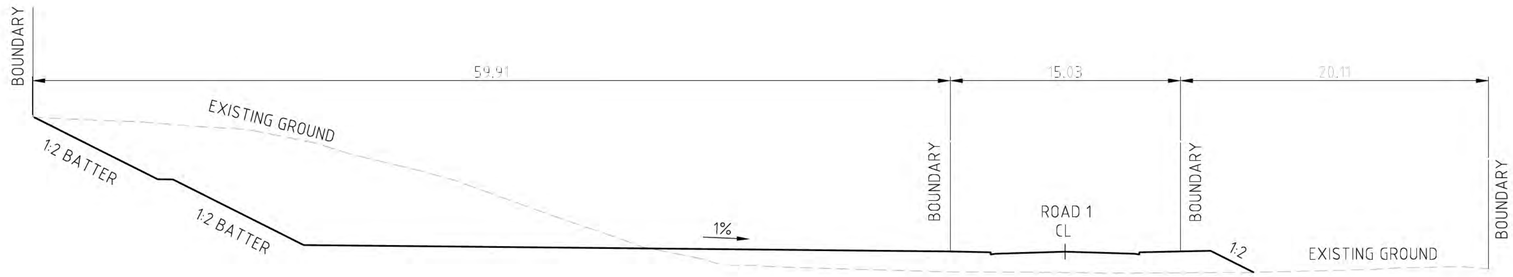
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Plotted By: Zed Fu

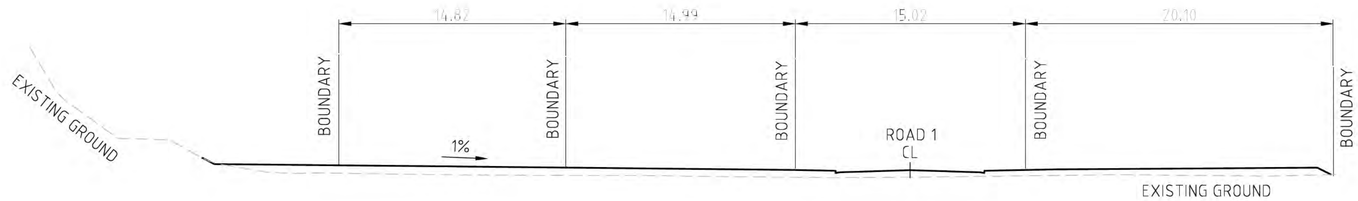
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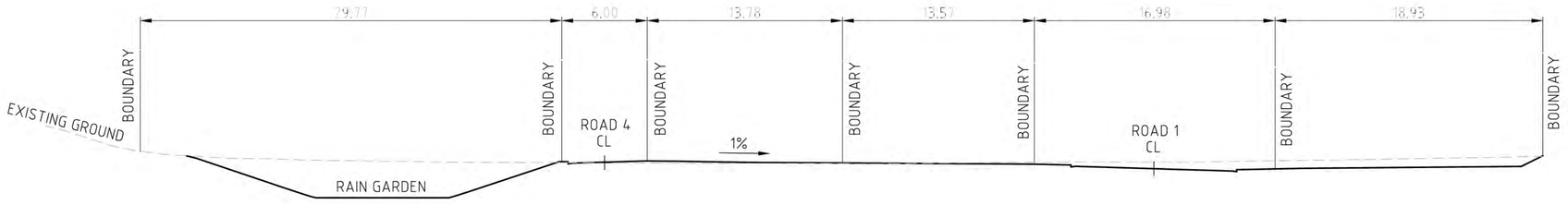
Drawing Plotted: 12 Jun 2026 11:40 am



CROSS SECTION G-G
1:200



CROSS SECTION H-H
1:200



CROSS SECTION I-I
1:200

A1 REPRODUCTION SCALE
100 80 60 40 20 0mm

A3 REPRODUCTION SCALE
50 40 30 20 10 0mm

SCALE 1:200
0 2 4 6 8 10 SCALE 1:200

No.	Revision	By	Chk	Appd	Date
D	FOR APPROVAL	ZF	JM	JM	26.06.12
C	FOR APPROVAL	MD	JM	JM	26.05.29
B	FOR APPROVAL	MD	JM	JM	26.04.30
A	FOR APPROVAL	ZF	JM	JM	26.02.16

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		Drawn	ZF	26.02.16
Reduced Scale (A3)	1/2 SHOWN	Dsg Verifier	JM	26.02.16
		Dwg Check	JM	26.02.16

Approved For Issue* Date
* Refer to Revision A for Original Signature

Client: CANNON POINT DEVELOPMENT LTD

Project: EAST BLOCK
TACOMA DRIVE, TOTARA PARK
UPPER HUTT

Title: CROSS SECTIONS
G-G, H-H & I-I

Discipline: CIVIL

Vecta Ref. No.	Drawing No.	Rev.
26014	C206	D

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Plotted By: Zed Fu

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Document No. 26014-C204-EB-EW-XS.DWG

SEE SHEET C213

SEE SHEET C212

SEE SHEET C211

STAGE 1
1.5 HA

STAGE 2
1.8 HA

STAGE 3
1.8 HA

STAGE 4
1.6 HA

ROAD 1

ROAD 2

ROAD 3

ROAD 4

COLORADO RD

HARTFORD CRES

LARCHMONT GR

INDIANA GR

UTAH GR

95.0
90.0
85.0
75.0

EX W
EX SS
EX SW

LEGEND:

- EARTHWORKS CATCHMENT
- EARTHBUND
- OVERLAND FLOWPATH
- SILT FENCE
- CLEAN WATER DIVERSION DRAIN
- DIRTY WATER DIVERSION DRAIN
- EXISTING WATERCOURSE
- SEDIMENT RETENTION POND
- WETLAND DELINEATION (BLUE GREEN ECOLOGY)

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No.	Revision	By	Chk	Appd	Date
D	FOR APPROVAL	ZF	JM	JM	26.06.12
C	FOR APPROVAL	MD	JM	JM	26.05.29
B	FOR APPROVAL	MD	JM	JM	26.04.30
A	FOR APPROVAL	ZF	JM	JM	26.02.16

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Original Scale (A1)	AS SHOWN		
Reduced Scale (A3)	1/2 SHOWN		

Design	JD	26.02.16	Approved For Issue*
Drawn	ZF	26.02.16	
Dsg Verifier	JM	26.02.16	
Dwg Check	JM	26.02.16	Date

* Refer to Revision A for Original Signature

Client: CANNON POINT DEVELOPMENT LTD

Project: EAST BLOCK
TACOMA DRIVE, TOTARA PARK
UPPER HUTT

Title: EROSION & SEDIMENT CONTROL PLAN OVERVIEW

Discipline: CIVIL

Vecta Ref. No.	Drawing No.	Rev.
26014	C210	D

A1 REPRODUCTION SCALE 0mm 20 40 60 80 100

A3 REPRODUCTION SCALE 0mm 10 20 30 40 50

SCALE 1:1000 0 10 20 30 40 50

Plotted By: Zed Fu

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Document No. 26014-C210-EB-ESCP PLAN.DWG

TEMPORARY CLEAN
WATER DIVERSION

STAGE 3
1.8 HA

STAGE 4
1.6 HA

ROAD 2

DIRTY WATER
DIVERSION TO SRP 1

STABILISED
CONSTRUCTION ENTRANCE

COLORADO RD

HARTFORD CRES

95.0
90.0
85.0
75.0

A1 REPRODUCTION SCALE
100 80 60 40 20 0mm

A3 REPRODUCTION SCALE
50 40 30 20 10 0mm

SCALE 1:500
20 10 0

SCALE 1:500
0 10 20

LEGEND:

- EARTHWORKS CATCHMENT
- EARTHBUND
- OVERLAND FLOWPATH
- SILT FENCE
- CLEAN WATER DIVERSION DRAIN
- DIRTY WATER DIVERSION DRAIN
- EXISTING WATERCOURSE
- SEDIMENT RETENTION POND
- WETLAND DELINEATION (BLUE GREEN ECOLOGY)

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No.	Revision	By	Chk	Appd	Date
D	FOR APPROVAL	ZF	JM	JM	26.06.12
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A	FOR APPROVAL	ZF	JM	JM	26.02.16

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Reduced Scale (A3)	1/2 SHOWN	Drawn	ZF	26.02.16
		Dsg Verifier	JM	26.02.16
		Dwg Check	JM	26.02.16

Approved For Issue* Date
* Refer to Revision A for Original Signature

Client: CANNON POINT DEVELOPMENT LTD

Project: EAST BLOCK
TACOMA DRIVE, TOTARA PARK
UPPER HUTT

Title: EROSION & SEDIMENT CONTROL PLAN
SHEET 1

Discipline: CIVIL

Vecta Ref. No.	Drawing No.	Rev.
26014	C211	D

Document Path: V:\PROJECTS\2026\26014 CANNON POINT FAST TRACK\50 CAD\AUTOCAD\RESOURCE CONSENT - EAST BLOCK

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Plotted By: Zed Fu

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TEMPORARY CLEAN WATER DIVERSION

STAGE 2
1.8 HA

SUPER SILT FENCE ALONG THE WINGWALL AND SPILLWAY

SRP 1

UHCC_SW003775

ROAD 1

STAGE 3
18 HA

ROAD 2

90.0

SILT FENCE

DIRTY WATER DIVERSION TO SRP 1

INDIANA GR

UTAH GR

A1 REPRODUCTION SCALE
100 80 60 40 20 0mm

A3 REPRODUCTION SCALE
50 40 30 20 10 0mm

SCALE 1:500
20 10 0

LEGEND:

- EARTHWORKS CATCHMENT
- EARTHBUND
- OVERLAND FLOWPATH
- SILT FENCE
- CLEAN WATER DIVERSION DRAIN
- DIRTY WATER DIVERSION DRAIN
- EXISTING WATERCOURSE
- SEDIMENT RETENTION POND
- WETLAND DELINEATION (BLUE GREEN ECOLOGY)

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No.	Revision	By	Chk	Appd	Date
D	FOR APPROVAL	ZF	JM	JM	26.06.12
C	FOR APPROVAL	MD	JM	JM	26.05.29
B	FOR APPROVAL	MD	JM	JM	26.04.30
A	FOR APPROVAL	ZF	JM	JM	26.02.16

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Design	JD	26.02.16
Drawn	ZF	26.02.16
Dsg Verifier	JM	26.02.16
Dwg Check	JM	26.02.16

Approved For Issue* Date
* Refer to Revision A for Original Signature

Client: CANNON POINT DEVELOPMENT LTD

Project: EAST BLOCK
TACOMA DRIVE, TOTARA PARK
UPPER HUTT

Title: EROSION & SEDIMENT CONTROL PLAN
SHEET 2

Discipline: CIVIL

Vecta Ref. No.	Drawing No.	Rev.
26014	C212	D

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Document No. 26014-C210-EB-ESCP PLAN.DWG

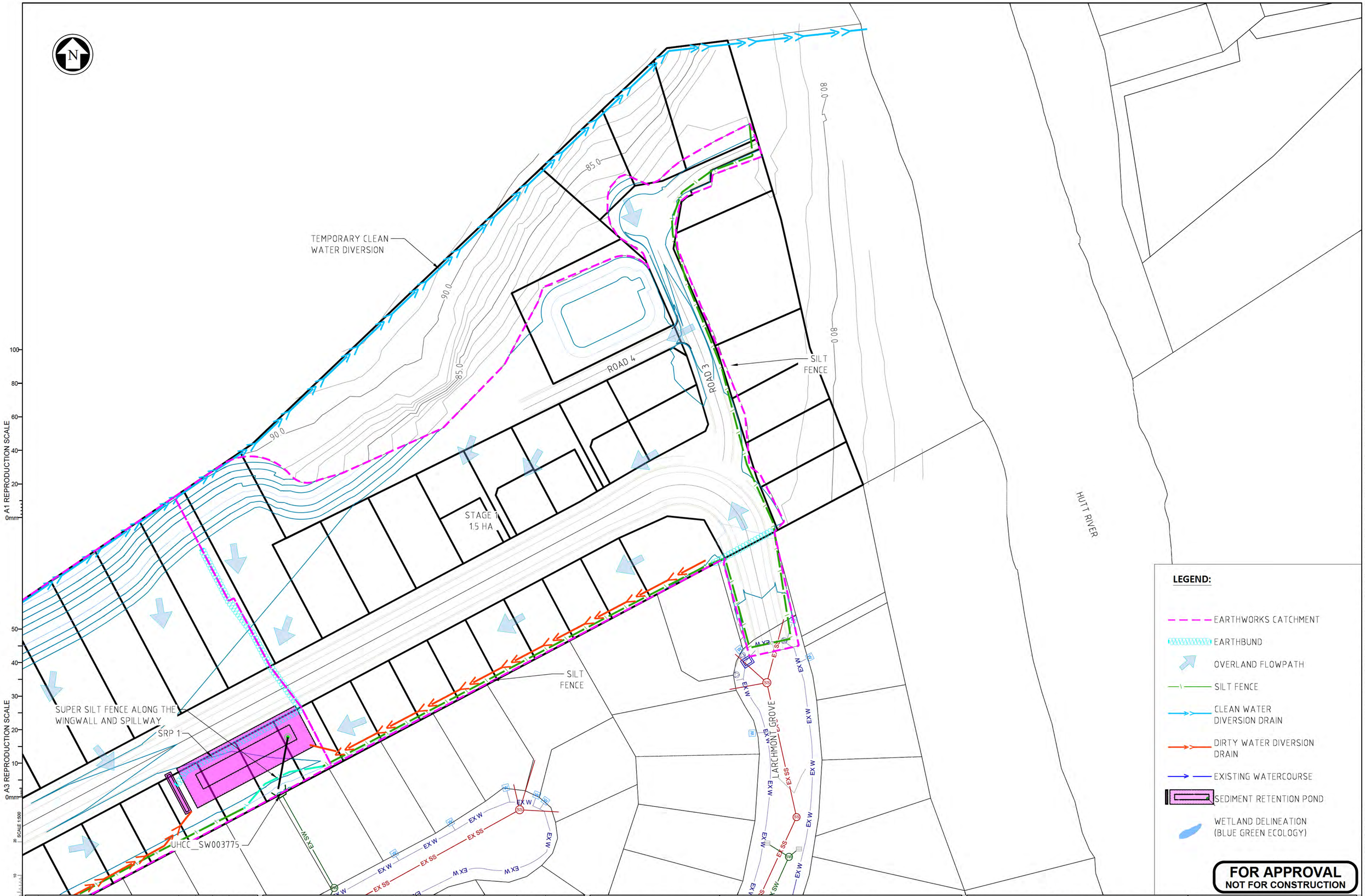
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A1 REPRODUCTION SCALE 0mm 20 40 60 80 100

A3 REPRODUCTION SCALE 0mm 10 20 30 40 50

SCALE 1:500 0 10 20

No.	Revision	By	Chk	Appd	Date
D	FOR APPROVAL	ZF	JM	JM	26.06.12
C	FOR APPROVAL	MD	JM	JM	26.05.29
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		Dsg Verifier	JM	26.02.16
		Dwg Check	JM	26.02.16

Approved For Issue* Date

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Client: CANNON POINT DEVELOPMENT LTD

Project: EAST BLOCK TACOMA DRIVE, TOTARA PARK UPPER HUTT

Title: EROSION & SEDIMENT CONTROL PLAN SHEET 3

Discipline		
CIVIL		
Vecta Ref. No.	Drawing No.	Rev.
26014	C213	D

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STABILISED CONSTRUCTION ENTRANCE SPECIFICATIONS:

APPLICATION

USE A STABILISED CONSTRUCTION ENTRANCE AT ALL POINTS OF CONSTRUCTION SITE INGRESS AND EGRESS WITH A CONSTRUCTION PLAN LIMITING TRAFFIC TO THESE ENTRANCES ONLY. THEY ARE PARTICULARLY USEFUL ON SMALL CONSTRUCTION SITES BUT CAN BE UTILISED FOR ALL PROJECTS.

DESIGN:

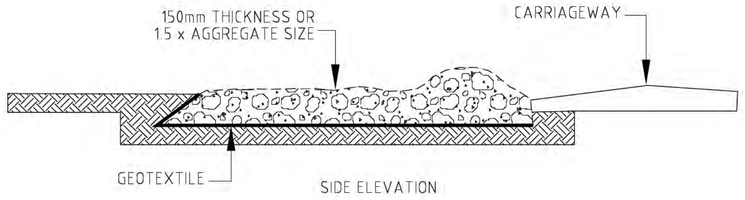
CLEAR THE ENTRANCE AND EXIT AREA OF ALL VEGETATION, ROOTS AND OTHER UNSUITABLE MATERIAL AND PROPERLY GRADE IT.

1. LAY WOVEN GEOTEXTILE; PIN DOWN EDGES AND OVERLAP JOINTS.
2. PROVIDE DRAINAGE TO CARRY RUNOFF FROM THE STABILISED CONSTRUCTION ENTRANCE TO A SEDIMENT CONTROL MEASURE.
3. PLACE AGGREGATE TO THE SPECIFICATIONS BELOW AND SMOOTH IT.
4. STABILISED CONSTRUCTION ENTRANCE AGGREGATE SPECIFICATIONS:

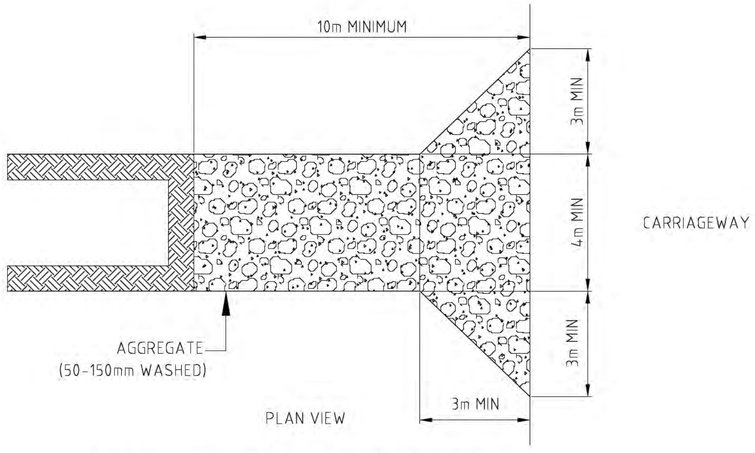
AGGREGATE SIZE	5-150mm WASHED AGGREGATE
THICKNESS	150mm MINIMUM OR 1.5 X AGGREGATE SIZE
LENGTH	10m MINIMUM LENGTH RECOMMENDED
WIDTH	4m MINIMUM

MAINTENANCE

1. MAINTAIN THE STABILISED CONSTRUCTION ENTRANCE IN A CONDITION TO PREVENT SEDIMENT FROM LEAVING THE CONSTRUCTION SITE. AFTER EACH RAINFALL INSPECT ANY STRUCTURE USED TO TRAP SEDIMENT FROM THE STABILISED CONSTRUCTION ENTRANCE AND CLEAN OUT AS NECESSARY.
2. WHEN WHEEL WASHING IS ALSO REQUIRED, ENSURE THIS IS DONE ON AN AREA STABILISED WITH AGGREGATE WHICH DRAINS TO AN APPROVED SEDIMENT RETENTION FACILITY.

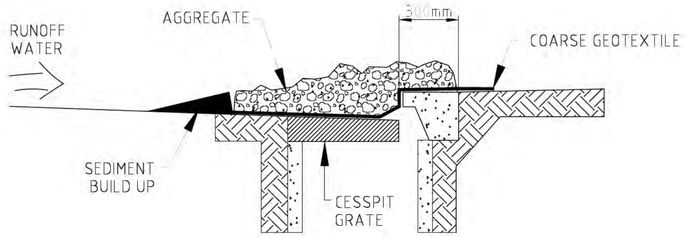


SIDE ELEVATION

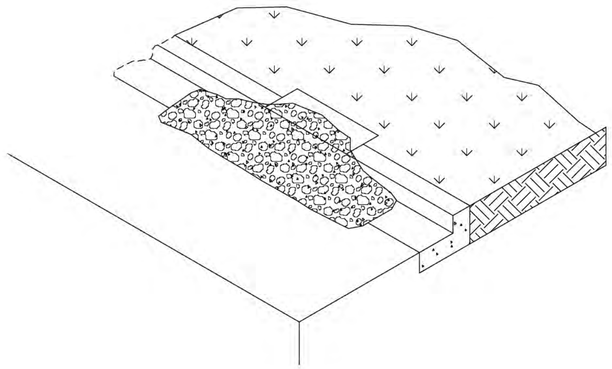


PLAN VIEW

STABILISED CONSTRUCTION ENTRANCE



CROSS SECTION



STORMWATER INLET PROTECTION
- FILTER MEDIA DESIGN

A1 REPRODUCTION SCALE 0mm 20 40 60 80 100

A3 REPRODUCTION SCALE 0mm 10 20 30 40 50

Document Path: V:\PROJECT\2026\26014 CANNON POINT FAST TRACK\50 CAD\AUTOCAD\RESOURCE CONSENT - EAST BLOCK

Document No. 26014-C220-EB-ESCP DETAILS.DWG

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No.	Revision	By	Chk	Appd	Date
D	FOR APPROVAL	ZF	JM	JM	26.06.12
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		Dsg Verifier	JM	26.02.16
		Dwg Check	JM	26.02.16

Approved For Issue* Date

* Refer to Revision A for Original Signature

Client: CANNON POINT DEVELOPMENT LTD

Project: EAST BLOCK
TACOMA DRIVE, TOTARA PARK
UPPER HUTT

Title: EROSION & SEDIMENT CONTROL DETAILS SHEET 1

Discipline: CIVIL

Vecta Ref. No.: 26014

Drawing No.: C230

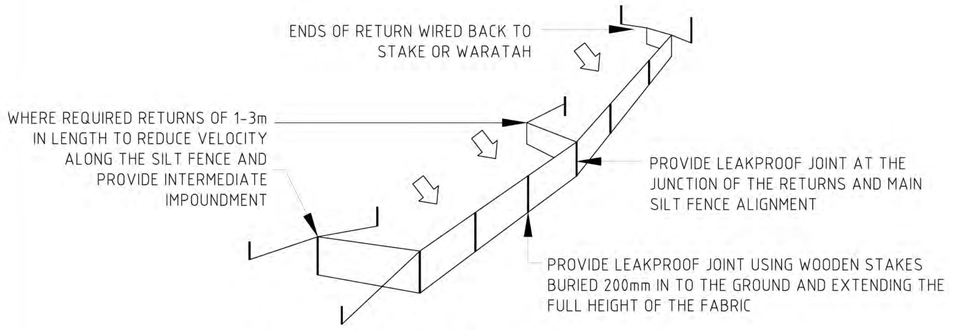
Rev.: D

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SILT FENCE WITH RETURNS AND SUPPORT WIRE

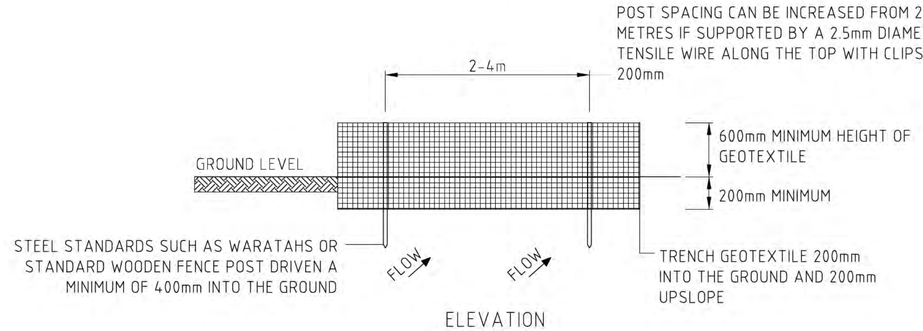


STANDARD FABRIC JOINT

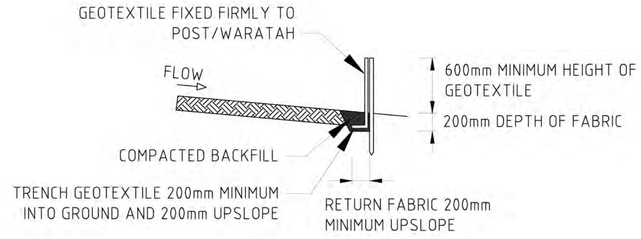
SILT FENCE DESIGN CRITERIA:

SLOPE STEEPNESS %	SLOPE LENGTH (m) (MAX)	SPACING OF RETURNS (m)
< 2%	N/A	UNLIMITED
2-10%	40	60
10-20%	30	50
20-33%	20	40
33-50%	15	30
>50%	6	20

GRAB TENSILE STRENGTH: >440N (ASTM D4632)
TENSILE MODULUS: 0.140 pa (MINIMUM)
APPARENT OPENING SIZE: 0.1-0.5mm (ASTM D4751)



ELEVATION



CROSS-SECTION

SILT FENCE CONSTRUCTION

A1 REPRODUCTION SCALE
100 80 60 40 20 0mm

A3 REPRODUCTION SCALE
50 40 30 20 10 0mm

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Reduced Scale (A3)	1/2 SHOWN		

Design	JD	26.02.16	Approved For Issue*
Drawn	ZF	26.02.16	
Dsg Verifier	JM	26.02.16	
Dwg Check	JM	26.02.16	Date

* Refer to Revision A for Original Signature

Client: CANNON POINT DEVELOPMENT LTD

Project: EAST BLOCK
TACOMA DRIVE, TOTARA PARK
UPPER HUTT

Title: EROSION & SEDIMENT CONTROL DETAILS SHEET 2

Discipline: CIVIL

Vecta Ref. No.	Drawing No.	Rev.
26014	C231	D

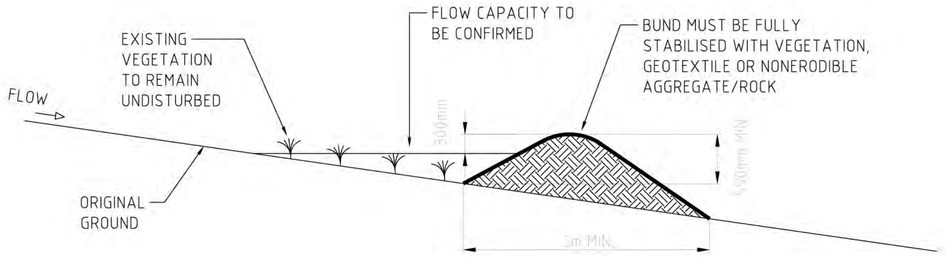
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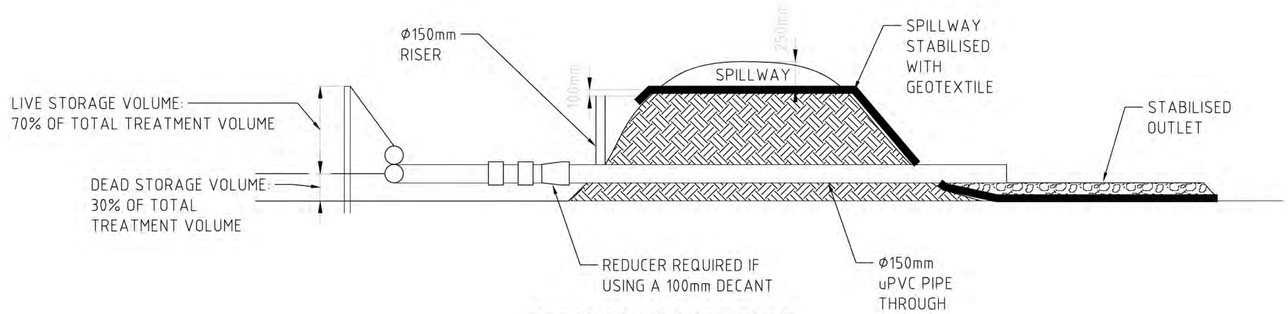
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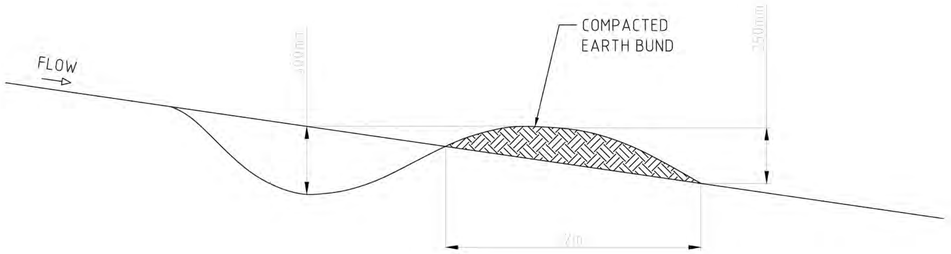
Document No. 26014-C220-EB-ESCP DETAILS.DWG



CROSS-SECTION OF CLEAN WATER DIVERSION BUND



DECANTING EARTH BUND

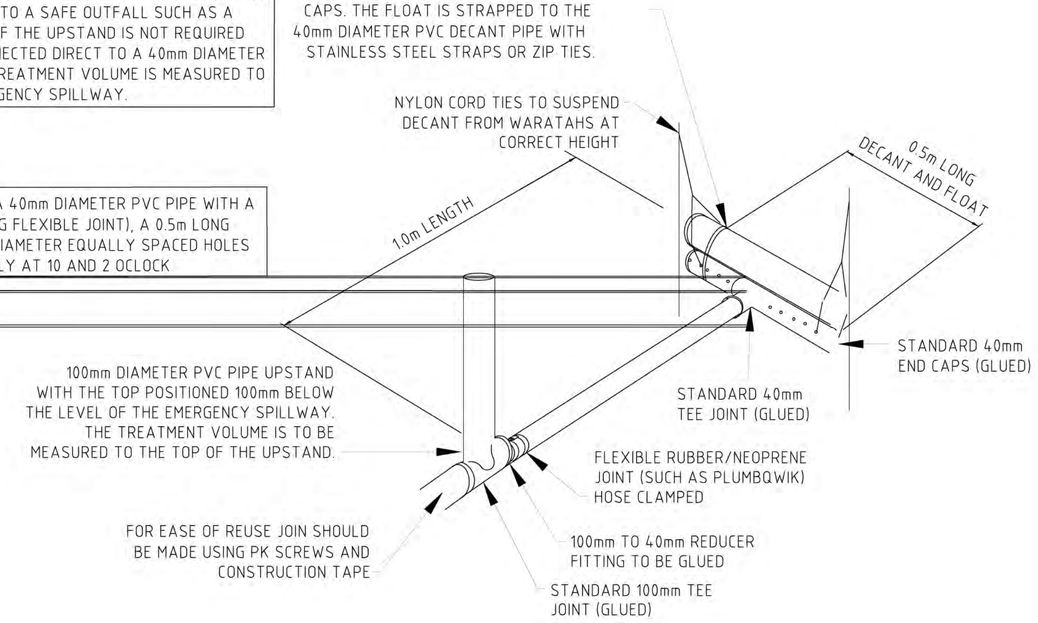


CONTOUR DRAIN CROSS-SECTION

NOTE: THE 100mm DIAMETER PVC PIPE UPSTAND IS ONLY REQUIRED WHERE THE 2m WIDE EMERGENCY SPILLWAY DISCHARGES TO VULNERABLE AREA OR WHERE THE DISCHARGE IS REQUIRED TO BE PIPED TO A SAFE OUTFALL SUCH AS A STORMWATER MANHOLE. IF THE UPSTAND IS NOT REQUIRED THE DECANT CAN BE CONNECTED DIRECT TO A 40mm DIAMETER OUTFALL PIPE AND THE TREATMENT VOLUME IS MEASURED TO THE INVERT OF THE EMERGENCY SPILLWAY.

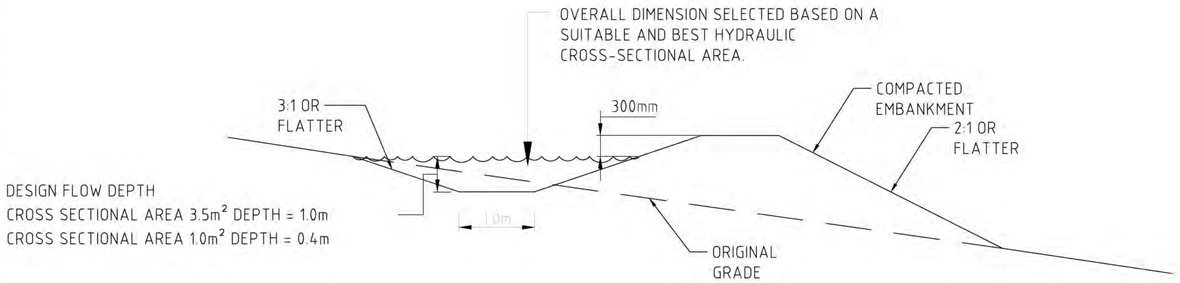
NOTE: THE DECANT HAS A 40mm DIAMETER PVC PIPE WITH A 1.3m LONG ARM (INCLUDING FLEXIBLE JOINT), A 0.5m LONG DECANT AND 20 x 10mm DIAMETER EQUALLY SPACED HOLES POSITIONED HORIZONTALLY AT 10 AND 2 OCLOCK

0.5m LONG 100mm DIAMETER PVC PIPE FLOAT WITH STANDARD 100mm END CAPS. THE FLOAT IS STRAPPED TO THE 40mm DIAMETER PVC DECANT PIPE WITH STAINLESS STEEL STRAPS OR ZIP TIES.



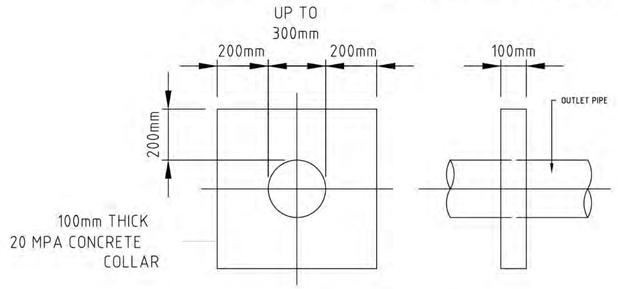
CONTOUR DRAIN SPACING:

SLOPE OF SITE (%)	SPACING (m) OF CONTOUR DRAINS
< 5%	50
5-10%	40
10-15%	30
15-30%	20



CROSS-SECTION OF A DIRTY WATER DIVERSION

40mm DECANT WITH UPSTAND FOR DECANTING EARTH BUND



ANTI-SEEP COLLAR

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No.	Revision	By	Chk	Appd	Date
D	FOR APPROVAL	ZF	JM	JM	26.06.12
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Design	JD	26.02.16
Drawn	ZF	26.02.16
Dsg Verifier	JM	26.02.16
Dwg Check	JM	26.02.16

Approved For Issue* Date

* Refer to Revision A for Original Signature

Client: CANNON POINT DEVELOPMENT LTD

Project: EAST BLOCK TACOMA DRIVE, TOTARA PARK UPPER HUTT

Title: EROSION & SEDIMENT CONTROL DETAILS SHEET 3

Discipline: CIVIL

Vecta Ref. No. 26014 | Drawing No. C232 | Rev. D

Plotted By: Zed Fu

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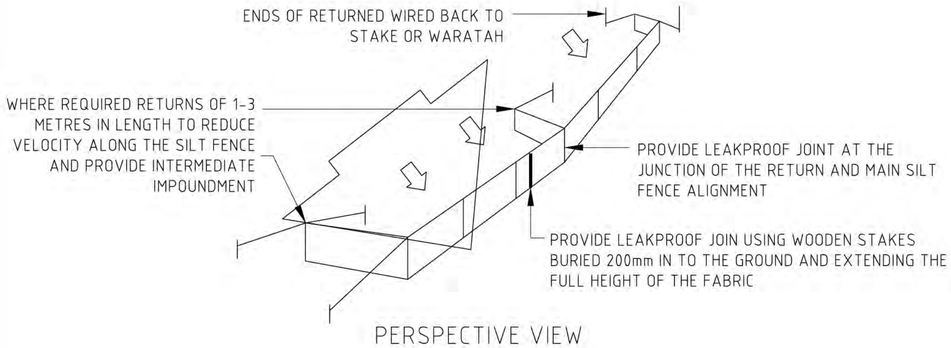
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A3 REPRODUCTION SCALE 0mm 50 40 30 20 10

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PERSPECTIVE VIEW

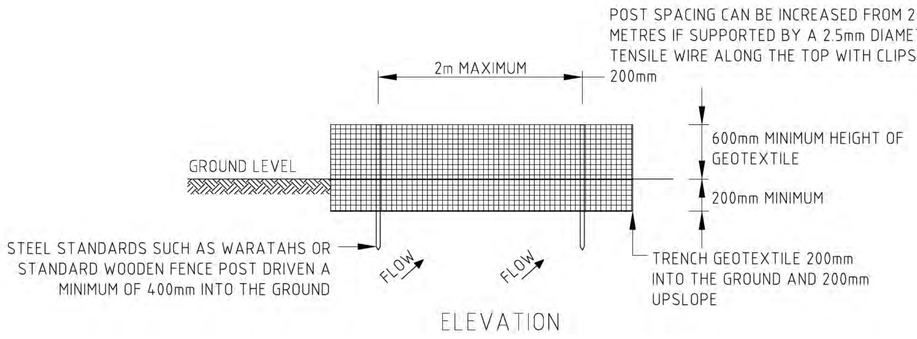


STANDARD FABRIC JOINT

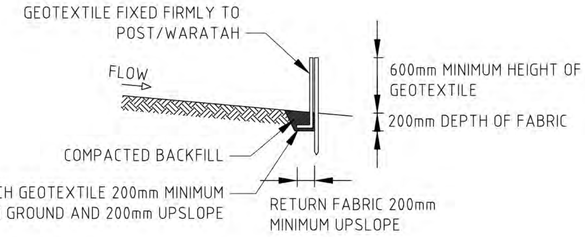
SILT FENCE DESIGN CRITERIA:

SLOPE STEEPNESS %	SLOPE LENGTH (m) (MAX)	SPACING OF RETURNS (m)
< 2%	N/A	UNLIMITED
2-10%	40	60
10-20%	30	50
20-33%	20	40
33-50%	15	30
>50%	6	20

GRAB TENSILE STRENGTH: >440N (ASTM D4632)
TENSILE MODULUS: 0.140 pa (MINIMUM)
APPARENT OPENING SIZE: 0.1-0.5mm (ASTM D4751)

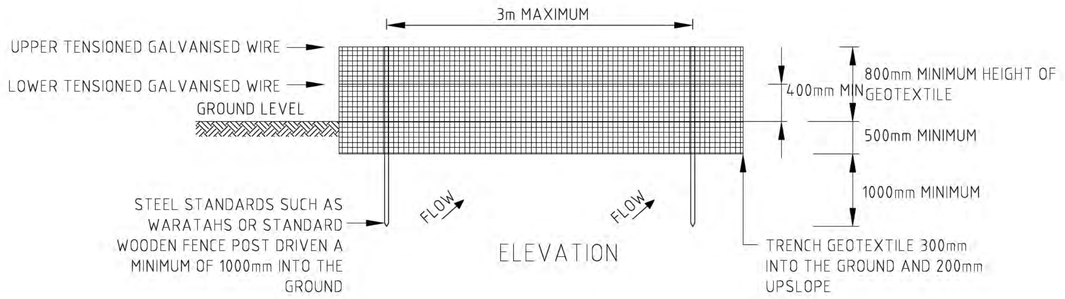


ELEVATION

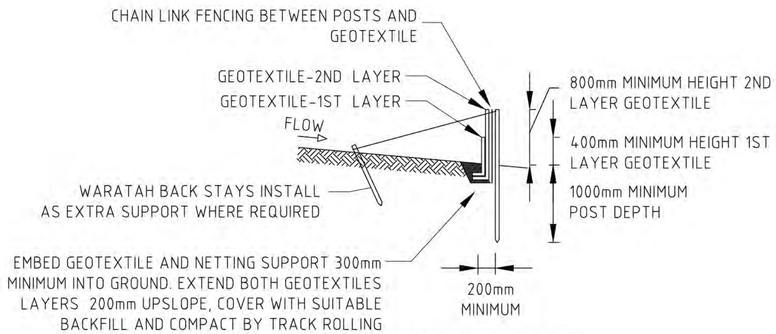


CROSS SECTION

SILT FENCE CONSTRUCTION



ELEVATION



CROSS SECTION

SUPER SILT FENCE DESIGN CRITERIA:

SLOPE STEEPNESS %	SLOPE LENGTH (m) (MAX)	SPACING OF RETURNS (m)
0-10%	UNLIMITED	60
10-20%	60	50
20-33%	30	40
33-50%	30	30
>50%	15	20

A1 REPRODUCTION SCALE 0mm 20 40 60 80 100
A3 REPRODUCTION SCALE 0mm 10 20 30 40 50

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Client: CANNON POINT DEVELOPMENT LTD

Project: EAST BLOCK
TACOMA DRIVE, TOTARA PARK
UPPER HUTT

Title: EROSION & SEDIMENT CONTROL DETAILS SHEET 4

Discipline: CIVIL
Vecta Ref. No. 26014
Drawing No. C233
Rev. D

Plotted By: Zed Fu

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SEE SHEET C303

SEE SHEET C302

SEE SHEET C301

HW OUT C1-1
MH1200 C1-2
MH1200 C1-3
SSMH1050 6-4
SSMH1050 6-3
MH1050 D2-1
SSMH1050 8-1
MH1050
HW OUT B32-1
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D1-2
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HW OUT D1-3
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SSMH1050 1-4
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ROAD 2
ROAD 3
ROAD 4
Council Reserve
INDIANA GROVE
UTAH GROVE
LARCHMONT GROVE
COLORADO RD
HARTFORD CRESCENT
SW
SS
EX SW
EX SS
90.0
95.0
85.0
80.0
75.0

A1 REPRODUCTION SCALE
A3 REPRODUCTION SCALE
SCALE 1:1000
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No.	Revision	By	Chk	Appd	Date
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Original Scale (A1)	AS SHOWN	Design	JD	26.02.17
Reduced Scale (A3)	1/2 SHOWN	Drawn	ZF	26.02.17
		Dsg Verifier	JM	26.02.17
		Dwg Check	JM	26.02.17

Approved For Issue* Date
* Refer to Revision A for Original Signature

Client: CANNON POINT DEVELOPMENT LTD

Project: EAST BLOCK
TACOMA DRIVE, TOTARA PARK
UPER HUTT

Title: DRAINAGE PLAN OVERVIEW

Discipline: CIVIL

Vecta Ref. No.	Drawing No.	Rev.
26014	C300	D

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Plotted By: Zed Fu

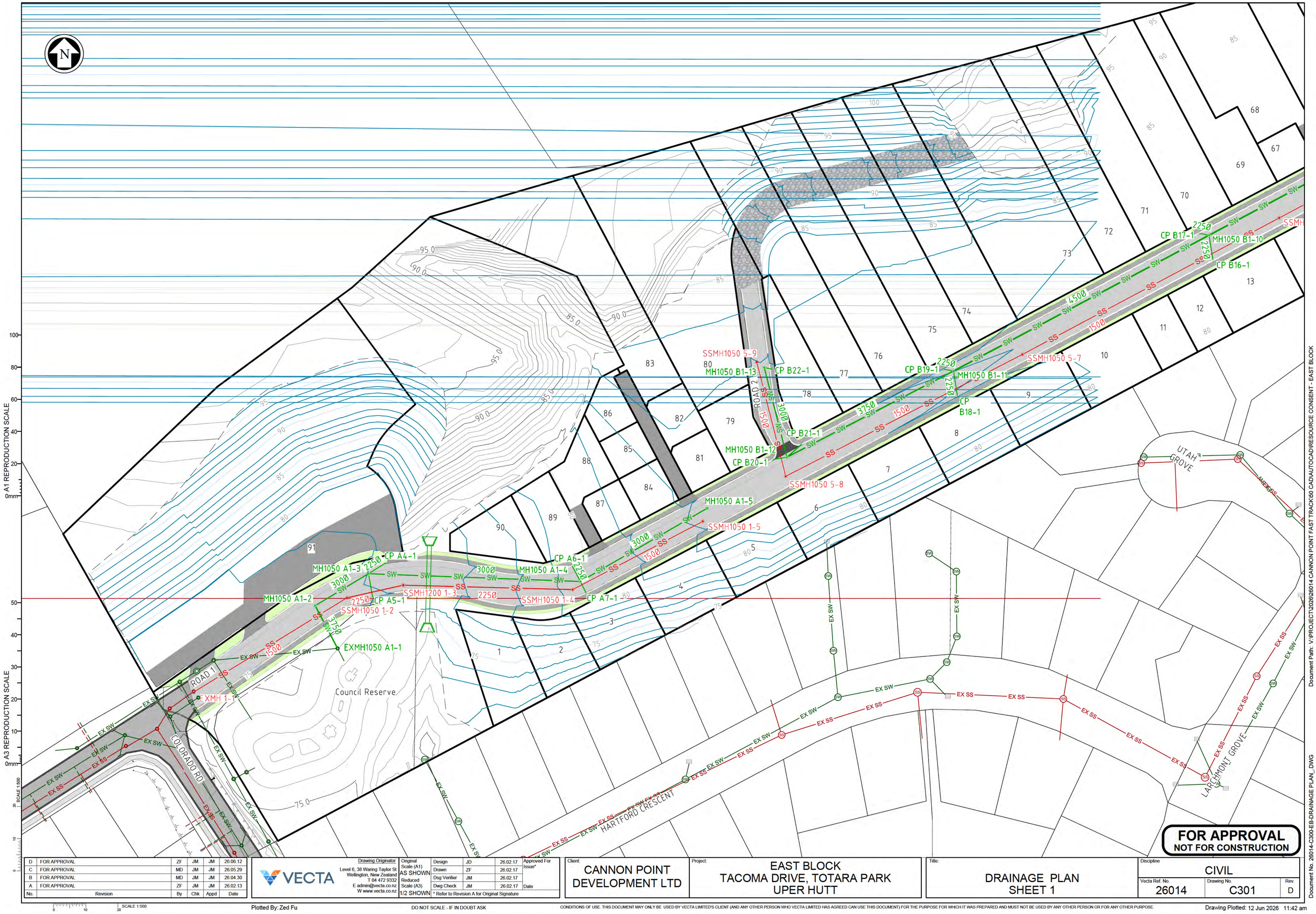
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Document No. 26014-C300-EB-DRAINAGE PLAN_.DWG



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No.	Revision	By	Chk	Appd	Date
D	FOR APPROVAL	ZF	JM	JM	26.06.12
C	FOR APPROVAL	MD	JM	JM	26.05.29
B	FOR APPROVAL	MD	JM	JM	26.04.30
A	FOR APPROVAL	ZF	JM	JM	26.02.13

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		Dsg Verifier	JM	26.02.17	
		Dwg Check	JM	26.02.17	Date

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Client: CANNON POINT DEVELOPMENT LTD

Project: EAST BLOCK
TACOMA DRIVE, TOTARA PARK
UPER HUTT

Title: DRAINAGE PLAN
SHEET 1

Discipline: CIVIL

Vecta Ref. No.	Drawing No.	Rev.
26014	C301	D

Document No. 26014-C300-EB-DRAINAGE PLAN_.DWG

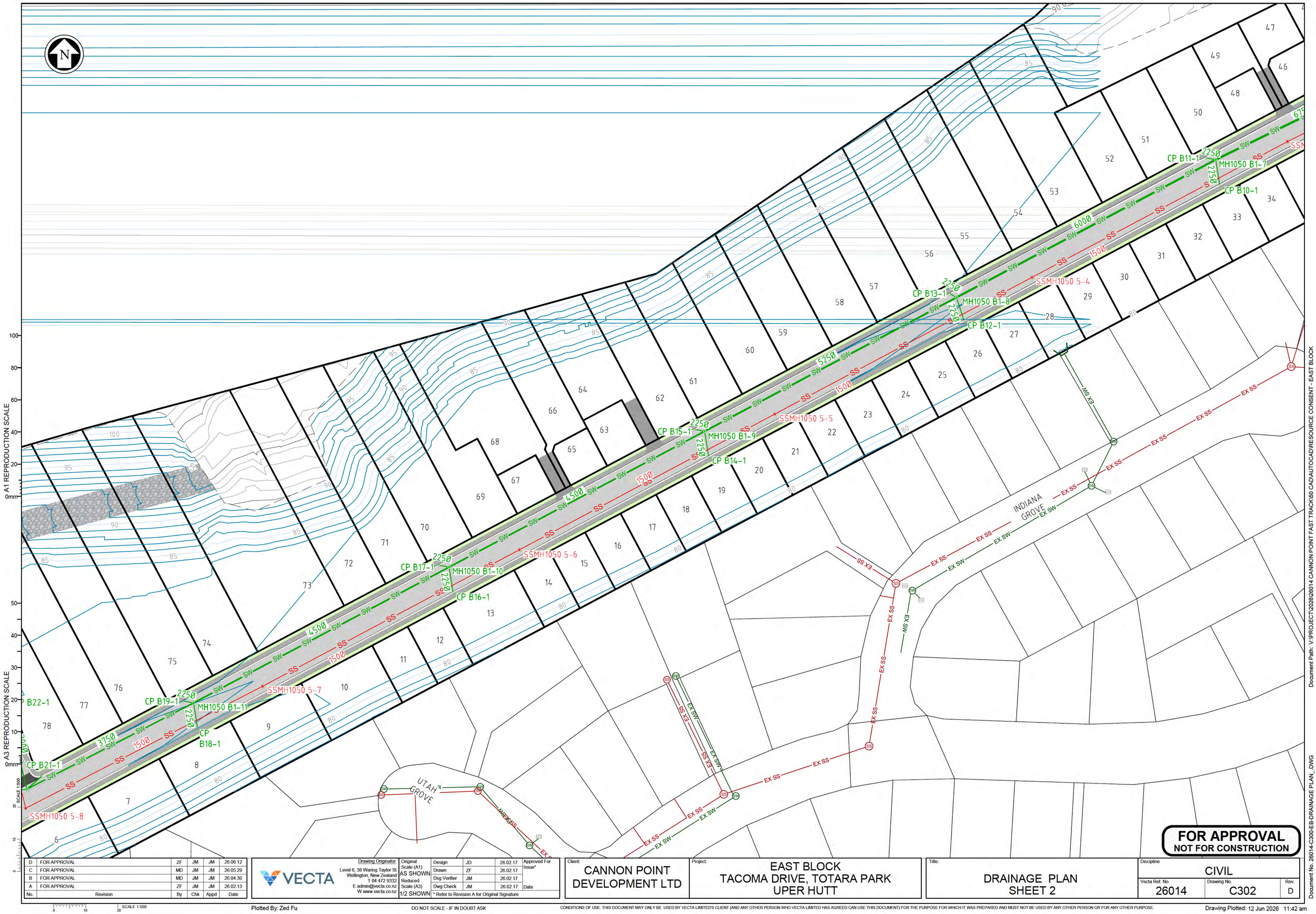
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Drawing Plotted: 12 Jun 2026 11:42 am



No.	Revision	By	Chk	Appd	Date
D	FOR APPROVAL	ZF	JM	JM	26.06.12
C	FOR APPROVAL	MD	JM	JM	26.05.29
B	FOR APPROVAL	MD	JM	JM	26.04.30
A	FOR APPROVAL	ZF	JM	JM	26.02.13

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		Dsg Verifier	JM	26.02.17	
		Dwg Check	JM	26.02.17	Date

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Client: CANNON POINT DEVELOPMENT LTD

Project: EAST BLOCK
TACOMA DRIVE, TOTARA PARK
UPER HUTT

Title: DRAINAGE PLAN
SHEET 2

Discipline: CIVIL

Vecta Ref No.	Drawing No.	Rev.
26014	C302	D

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SCALE 1:500

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No.	Revision	By	Chk	Appd	Date
D	FOR APPROVAL	ZF	JM	JM	26.06.12
C	FOR APPROVAL	MD	JM	JM	26.05.29
B	FOR APPROVAL	MD	JM	JM	26.04.30
A	FOR APPROVAL	ZF	JM	JM	26.02.13

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Original Scale (A1)	AS SHOWN	Design	JD	26.02.17	Approved For Issue*
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		Dsg Verifier	JM	26.02.17	
		Dwg Check	JM	26.02.17	Date

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Client: CANNON POINT DEVELOPMENT LTD

Project: EAST BLOCK
TACOMA DRIVE, TOTARA PARK
UPER HUTT

Title: DRAINAGE PLAN
SHEET 3

Discipline: CIVIL

Vecta Ref. No.	Drawing No.	Rev.
26014	C303	D

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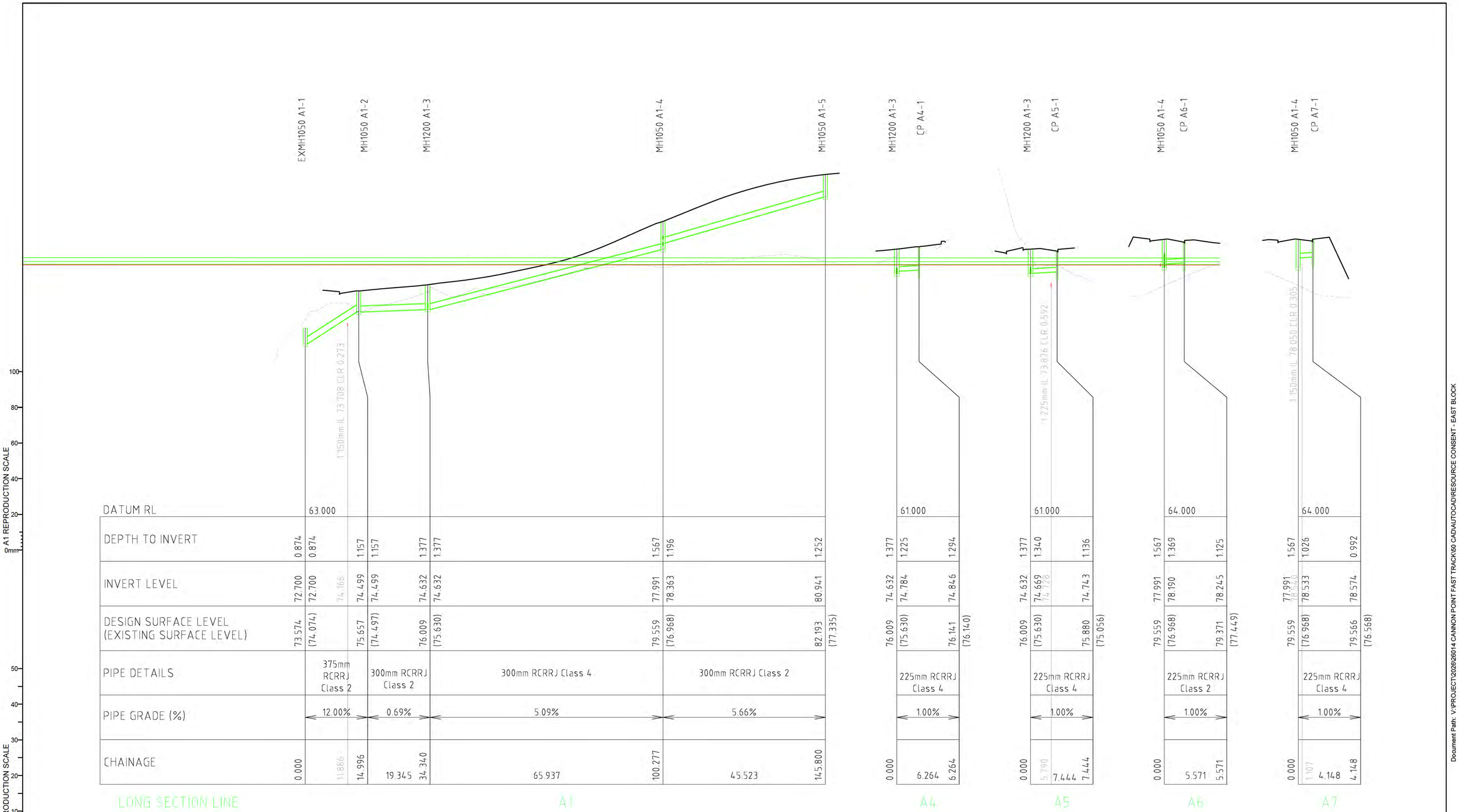
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No.	Revision	By	Chk	Appd	Date
D	FOR APPROVAL	ZF	JM	JM	26.06.12
C	FOR APPROVAL	MD	JM	JM	26.05.29
B	FOR APPROVAL	ZF	JM	JM	26.05.04
A	FOR APPROVAL	JD	JM	JM	26.02.24

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Reduced Scale (A3)	1/2 SHOWN	Drawn	JD	26.02.24
		Dsg Verifier	JM	26.02.24
		Dwg Check	JM	26.02.24

Approved For Issue* Date

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Client: CANNON POINT DEVELOPMENT LTD

Project: EAST BLOCK
TACOMA DRIVE. TOTARA PARK
UPPER HUTT

Title: STORMWATER LONG SECTION
SHEET 1

Discipline: CIVIL

Vecta Ref. No.	Drawing No.	Rev.
26014	C310	D

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Drawing Plotted: 12 Jun 2026 11:48 am

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Document No. 26014-C310-EB-DRAINAGE LS.DWG



DATUM RL		66.000													
DEPTH TO INVERT	0.300	0.300	2.237	2.177	2.354	2.299	2.094	2.064	1.595	1.545	1.283	1.263	1.179	1.159	1.159
INVERT LEVEL	78.500	78.500	78.533	78.593	78.698	78.752	78.840	78.870	78.940	78.990	79.111	79.131	79.377	79.397	79.762
DESIGN SURFACE LEVEL (EXISTING SURFACE LEVEL)	78.854	(80.855)	80.770	(80.824)	81.051	(81.303)	80.934	(81.382)	80.535	(81.374)	80.394	(80.679)	80.556	(79.869)	80.921 (79.620)

PIPE DETAILS		300mm RCRRJ Class 2		300mm RCRRJ Class 2		675mm RCRRJ Class 2		675mm RCRRJ Class 4		675mm RCRRJ Class 4		675mm RCRRJ Class 4		600mm RCRRJ Class 4	
PIPE GRADE (%)		0.40%		0.40%		0.40%		0.40%		0.40%		0.40%		0.40%	
CHAINAGE	0.000	8.132	8.132	26.315	34.447	22.023	56.471	17.488	73.958	30.176	104.135	61.442	165.577	91.327	256.904

LONG SECTION LINE

B1

A1 REPRODUCTION SCALE 0mm 20 40 60 80 100

A3 REPRODUCTION SCALE 0mm 10 20 30 40 50

SCALE 1:100 0 2 4

No.	Revision	By	Chk	Appd	Date
D	FOR APPROVAL	ZF	JM	JM	26.06.12
C	FOR APPROVAL	MD	JM	JM	26.05.29
B	FOR APPROVAL	ZF	JM	JM	26.05.04
A	FOR APPROVAL	JD	JM	JM	26.02.24

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Design	JD	26.02.24	Approved For Issue*
Drawn	JD	26.02.24	
Dsg Verifier	JM	26.02.24	
Dwg Check	JM	26.02.24	Date

* Refer to Revision A for Original Signature

Client: CANNON POINT DEVELOPMENT LTD

Project: EAST BLOCK TACOMA DRIVE. TOTARA PARK UPPER HUTT

Title: STORMWATER LONG SECTION SHEET 2

Discipline: CIVIL

Vecta Ref. No. 26014 | Drawing No. C311 | Rev. D

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SCALE 1:500 0 10 20

Plotted By: Zed Fu

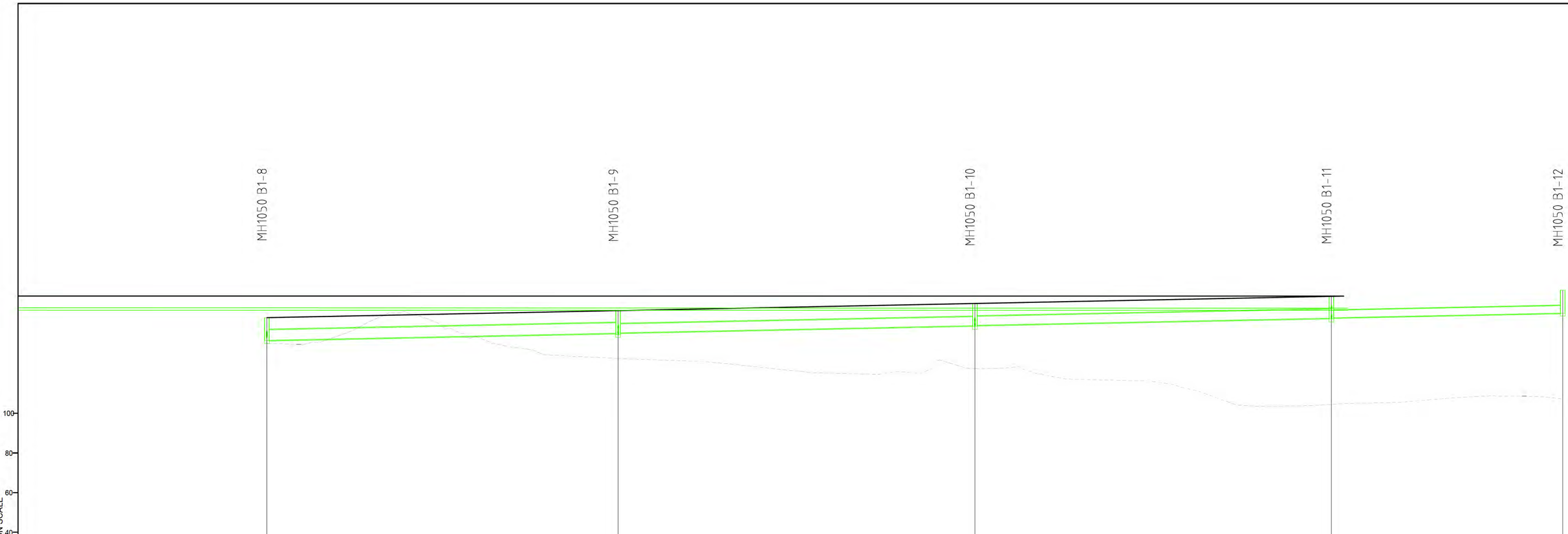
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Document No. 26014-C310-EB-DRAINAGE LS.DWG



DATUM RL		65.000			
DEPTH TO INVERT	1.159	1.139 / 1.139	1.119 / 1.119	1.099 / 1.099	1.079 / 1.162
INVERT LEVEL	79.762	79.782 / 80.137	80.157 / 80.517	80.537 / 80.897	80.917 / 81.150
DESIGN SURFACE LEVEL (EXISTING SURFACE LEVEL)	80.921	(79.620) / 81.276	(78.867) / 81.636	(78.350) / 81.996	(76.546) / 82.312 (76.823)
PIPE DETAILS		525mm RCRRJ Class 4	450mm RCRRJ Class 4	450mm RCRRJ Class 4	375mm RCRRJ Class 4
PIPE GRADE (%)		0.40%	0.40%	0.40%	0.40%
CHAINAGE	256.904	88.673 / 345.577	90.000 / 435.577	90.000 / 525.577	58.351 / 583.928

LONG SECTION LINE

B1

A1 REPRODUCTION SCALE 0mm 20 40 60 80 100

A3 REPRODUCTION SCALE 0mm 10 20 30 40 50

SCALE 1:100 0 1 2

SCALE 1:500 0 10 20

Document Path: V:\PROJECT\2026\26014 CANNON POINT FAST TRACK\50 CAD\AUTOCAD\RESOURCE CONSENT - EAST BLOCK

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No.	Revision	By	Chk	Appd	Date
D	FOR APPROVAL	ZF	JM	JM	26.06.12
C	FOR APPROVAL	MD	JM	JM	26.05.29
B	FOR APPROVAL	ZF	JM	JM	26.05.04
A	FOR APPROVAL	JD	JM	JM	26.02.24

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Original Scale (A1)	AS SHOWN	Design	JD	26.02.24
Reduced Scale (A3)	1/2 SHOWN	Drawn	JD	26.02.24
		Dsg Verifier	JM	26.02.24
		Dwg Check	JM	26.02.24

Approved For Issue* Date

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Client: CANNON POINT DEVELOPMENT LTD

Project: EAST BLOCK
TACOMA DRIVE. TOTARA PARK
UPPER HUTT

Title: STORMWATER LONG SECTION
SHEET 3

Discipline: CIVIL

Vecta Ref. No.	Drawing No.	Rev.
26014	C312	D

Plotted By: Zed Fu

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Drawing Plotted: 12 Jun 2026 11:44 am



DATUM RL		66.000					65.000			66.000			66.000			66.000			66.000			66.000			66.000			66.000		
DEPTH TO INVERT	1.162	1.092		1.560	1.179	0.998		0.825	1.179	0.952		0.825	1.159	1.000		0.825	1.159	0.948		0.824	1.139	1.198		1.025	1.139	0.952		0.825	1.119	0.958		0.825	1.119	1.152		1.025
INVERT LEVEL	81.150	81.220		81.335	79.377	79.558		79.638	79.377	79.604		79.638	79.762	79.921		79.998	79.762	79.973		79.998	80.137	80.078		80.158	80.137	80.324		80.358	80.517	80.678		80.718	80.517	80.484		80.518
DESIGN SURFACE LEVEL (EXISTING SURFACE LEVEL)	82.312	(76.823)		82.895 (76.857)	80.556	(79.869)		80.464 (79.922)	80.556	(79.869)		80.462 (79.807)	80.921	(79.620)		80.824 (79.524)	80.921	(79.620)		80.822 (79.705)	81.276	(78.867)		81.184 (78.987)	81.276	(78.867)		81.182 (78.821)	81.636	(78.350)		81.544 (77.872)	81.636	(78.350)		81.542 (79.400)
PIPE DETAILS		300mm RCRRJ Class 4				225mm RCRRJ Class 4				225mm RCRRJ Class 4				225mm RCRRJ Class 4				225mm RCRRJ Class 4				225mm RCRRJ Class 4				225mm RCRRJ Class 4				225mm RCRRJ Class 4				225mm RCRRJ Class 4		
PIPE GRADE (%)		0.40%				1.00%				1.00%				1.00%				1.00%				1.00%				1.00%				0.50%				1.00%		
CHAINAGE	583.928	28.764		612.692	0.000	5.820	5.820	8.042	8.042	0.000	3.366		3.366	0.000	5.580	5.580	7.711	7.711	0.000	2.472		2.472	0.000	5.820	5.820	8.042	8.042	0.000	3.366		3.366	0.000	5.820	5.820	8.042	8.042	0.000	3.366		3.366
LONG SECTION LINE		B1				B10				B11				B12				B13				B14				B15				B16				B17		

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No.	Revision	By	Chk	Appd	Date
D	FOR APPROVAL	ZF	JM	JM	26.06.12
C	FOR APPROVAL	MD	JM	JM	26.05.29
B	FOR APPROVAL	ZF	JM	JM	26.05.04
A	FOR APPROVAL	JD	JM	JM	26.02.24

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Design	JD	26.02.24
Drawn	JD	26.02.24
Dsg Verifier	JM	26.02.24
Dwg Check	JM	26.02.24

Approved For Issue* Date
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Client: CANNON POINT DEVELOPMENT LTD

Project: EAST BLOCK
TACOMA DRIVE. TOTARA PARK
UPPER HUTT

Title: STORMWATER LONG SECTION
SHEET 4

Discipline: CIVIL

Vecta Ref. No. 26014

Drawing No. C313

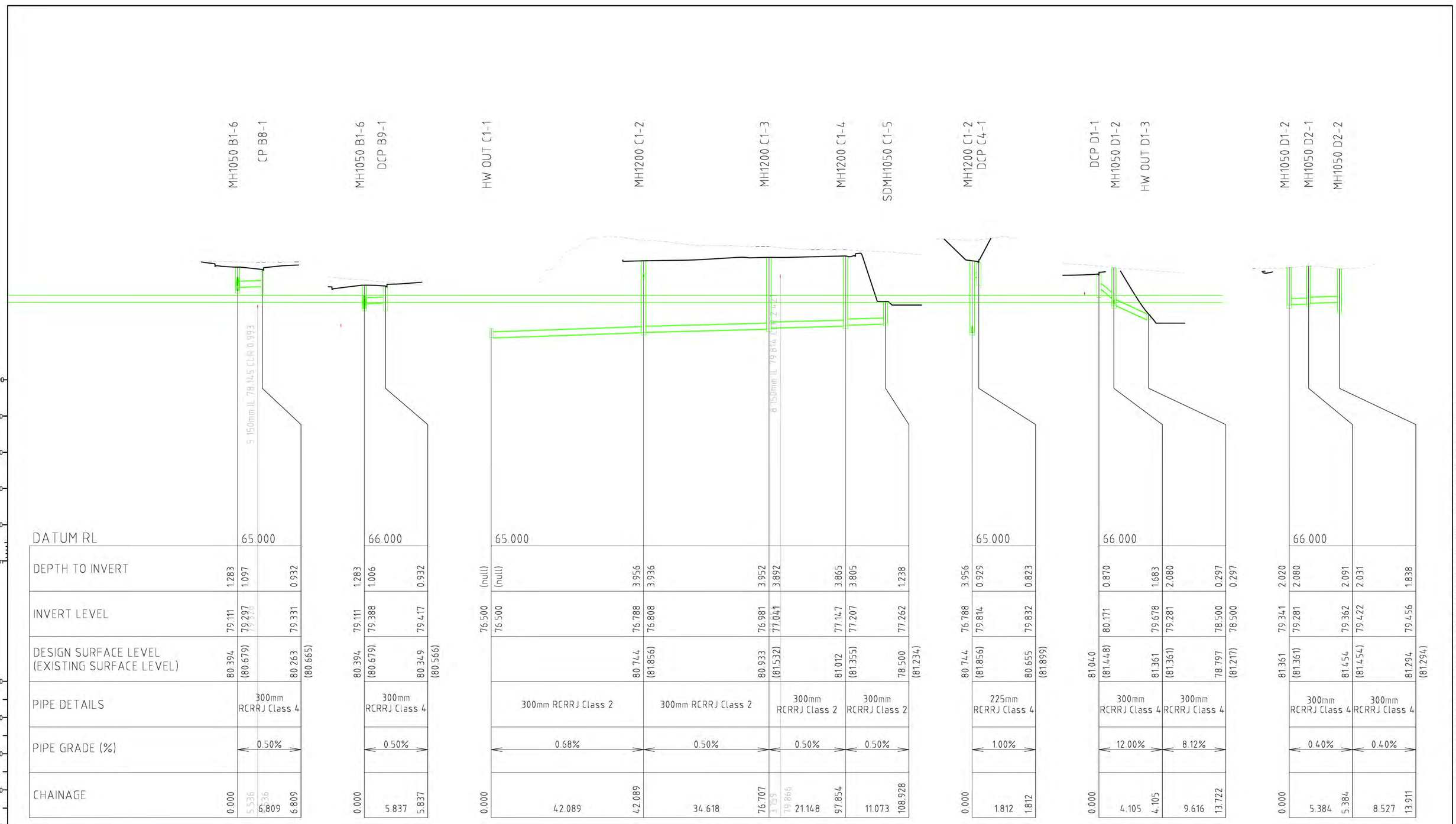
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No.	Revision	By	Chk	Appd	Date
D	FOR APPROVAL	ZF	JM	JM	26.06.12
C	FOR APPROVAL	MD	JM	JM	26.05.29
B	FOR APPROVAL	ZF	JM	JM	26.05.04
A	FOR APPROVAL	JD	JM	JM	26.02.24

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Reduced Scale (A3)	1/2 SHOWN		
Design	JD	26.02.24	Approved For Issue*
Drawn	JD	26.02.24	
Dsg Verifier	JM	26.02.24	
Dwg Check	JM	26.02.24	Date

* Refer to Revision A for Original Signature

Client: CANNON POINT DEVELOPMENT LTD

Project: EAST BLOCK
TACOMA DRIVE. TOTARA PARK
UPPER HUTT

Title: STORMWATER LONG SECTION
SHEET 6

Discipline: CIVIL

Vecta Ref. No.: 26014

Drawing No.: C315

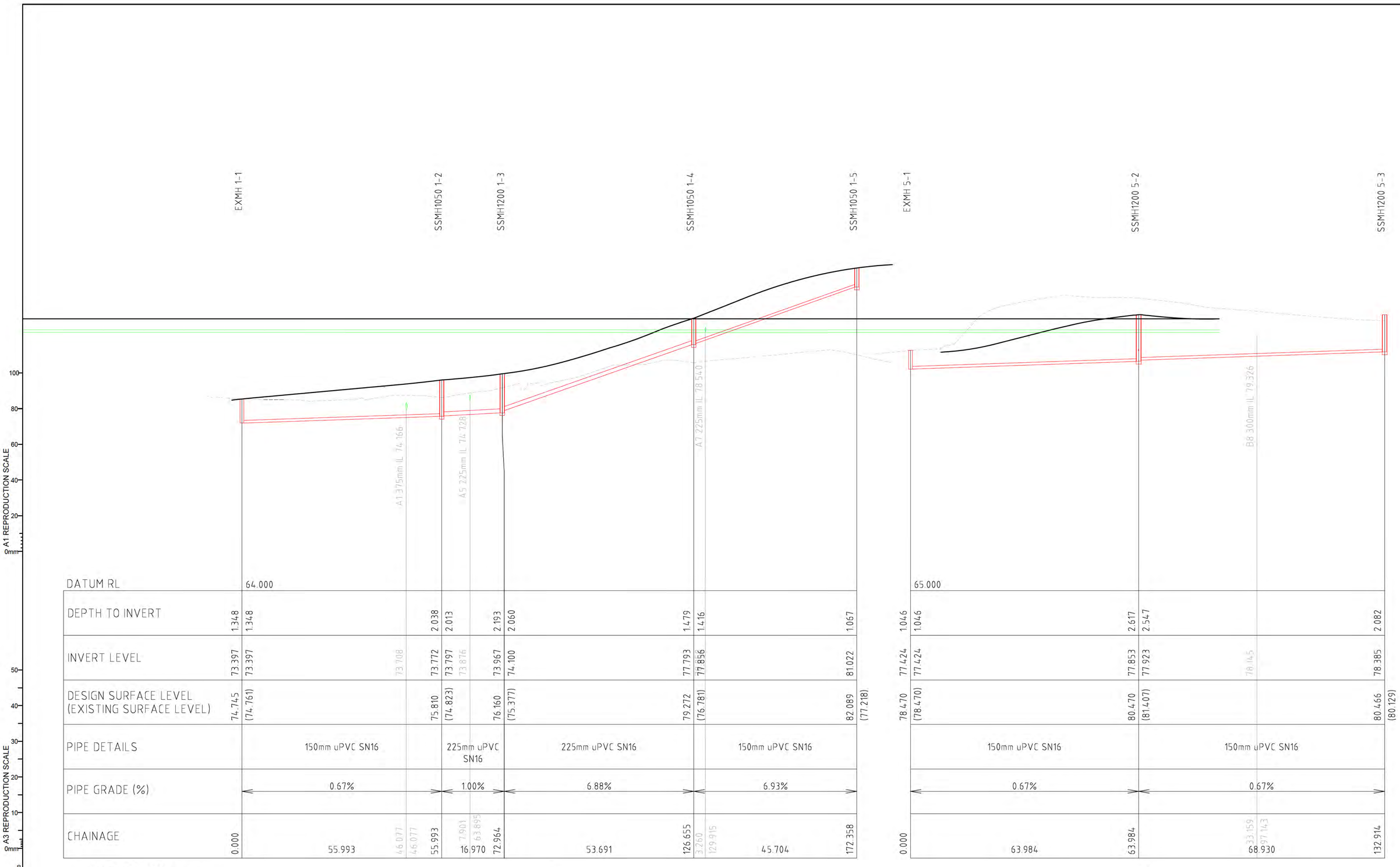
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LONG SECTION LINE 1 5

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No.	Revision	By	Chk	Appd	Date
D	FOR APPROVAL	ZF	JM	JM	26.06.12
C	FOR APPROVAL	MD	JM	JM	26.05.29
B	FOR APPROVAL	ZF	JM	JM	26.05.04
A	FOR APPROVAL	JD	JM	JM	26.02.24

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Reduced Scale (A3)	1/2 SHOWN	Drawn	JD	26.02.24
		Dsg Verifier	JM	26.02.24
		Dwg Check	JM	26.02.24

Approved For Issue* Date

* Refer to Revision A for Original Signature

Client: CANNON POINT DEVELOPMENT LTD

Project: EAST BLOCK
TACOMA DRIVE. TOTARA PARK
UPPER HUTT

Title: SEWER LONG SECTION
SHEET 1

Discipline: CIVIL

Vecta Ref. No. 26014 | Drawing No. C316 | Rev. D

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Drawing Plotted: 12 Jun 2026 11:45 am



DATUM RL	65.000			
DEPTH TO INVERT	2.082 / 2.062	1.819 / 1.799	1.554 / 1.534	1.291
INVERT LEVEL	78.385 / 78.405 (78.565)	79.008 / 79.028 (79.191)	79.635 / 79.655 (79.811)	80.257
DESIGN SURFACE LEVEL (EXISTING SURFACE LEVEL)	80.466 (80.129)	80.826 (79.525)	81.189 (79.227)	81.549 (78.161)
PIPE DETAILS	150mm uPVC SN16	150mm uPVC SN16	150mm uPVC SN16	
PIPE GRADE (%)	0.67%	0.67%	0.67%	
CHAINAGE	132.914 / 24.273 / 157.187	222.914 / 24.640 / 247.554	313.510 / 23.677 / 337.187	403.469
	90.000	90.597	89.959	

LONG SECTION LINE

5

A1 REPRODUCTION SCALE
A3 REPRODUCTION SCALE
SCALE 1:100
SCALE 1:500

No.	Revision	By	Chk	Appd	Date
D	FOR APPROVAL	ZF	JM	JM	26.06.12
C	FOR APPROVAL	MD	JM	JM	26.05.29
B	FOR APPROVAL	ZF	JM	JM	26.05.04
A	FOR APPROVAL	JD	JM	JM	26.02.24

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Design	JD	26.02.24	Approved For Issue*
Drawn	JD	26.02.24	
Dsg Verifier	JM	26.02.24	
Dwg Check	JM	26.02.24	Date

* Refer to Revision A for Original Signature

Client: CANNON POINT DEVELOPMENT LTD

Project: EAST BLOCK
TACOMA DRIVE. TOTARA PARK
UPPER HUTT

Title: SEWER LONG SECTION
SHEET 2

Discipline: CIVIL

Vecta Ref. No.: 26014

Drawing No.: C317

Rev.: D

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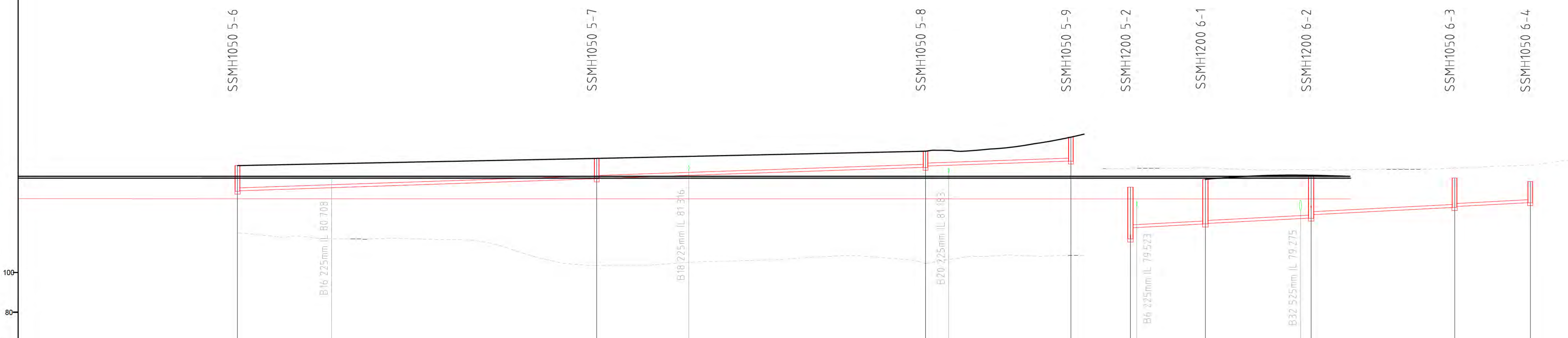
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A1 REPRODUCTION SCALE

A3 REPRODUCTION SCALE

DATUM RL 66.000

Point	Depth to Invert	Invert Level	Design Surface Level (Existing Surface Level)	Chainage
SSMH1050 5-6	1.291 / 1.271	80.257 / 80.277	81.549 (78.161)	403.469
B16 (faint)		80.434		23.718 / 427.187
SSMH1050 5-7	1.027 / 1.007	80.883 / 80.903	81.910 (76.514)	493.940
B18 (faint)		81.057		23.145 / 517.085
SSMH1050 5-8	0.816 / 0.746	81.458 / 81.528	82.274 (76.616)	576.739
B20 (faint)		81.565		5.828 / 582.567
SSMH1050 5-9	1.210	81.773	82.983 (77.020)	613.352

Segment	Pipe Details	Pipe Grade (%)	Length
5-6 to 5-7	150mm uPVC SN16	0.67%	90.471
5-7 to 5-8	150mm uPVC SN16	0.67%	82.799
5-8 to 5-9	150mm uPVC SN16	0.67%	36.613

LONG SECTION LINE 5

DATUM RL 66.000

Point	Depth to Invert	Invert Level	Design Surface Level (Existing Surface Level)	Chainage
SSMH1200 5-2	2.617 / 2.054	77.853 / 78.415	80.470 (81.407)	0.000
B6 (faint)				1.559
SSMH1200 6-1	2.254 / 2.224	78.604 / 78.634	80.858 (81.433)	18.876
B32 (faint)		78.879		23.935 / 42.811
SSMH1200 6-2	2.161 / 1.985	78.900 / 79.076	81.061 (81.339)	45.476
SSMH1050 6-3	1.478 / 1.428	79.438 / 79.488	80.916 (81.431)	81.600
SSMH1050 6-4	1.062	79.678	80.740 (81.572)	100.650

Segment	Pipe Details	Pipe Grade (%)	Length
5-2 to 6-1	150mm uPVC SN16	1.00%	18.876
6-1 to 6-2	150mm uPVC SN16	1.00%	26.600
6-2 to 6-3	150mm uPVC SN16	1.00%	36.124
6-3 to 6-4	150mm uPVC SN16	1.00%	19.050

LONG SECTION LINE 6

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No.	Revision	By	Chk	Appd	Date
D	FOR APPROVAL	ZF	JM	JM	26.06.12
C	FOR APPROVAL	MD	JM	JM	26.05.29
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A	FOR APPROVAL	JD	JM	JM	26.02.24

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Design	JD	26.02.24	Approved For Issue*
Drawn	JD	26.02.24	
Dsg Verifier	JM	26.02.24	
Dwg Check	JM	26.02.24	Date

* Refer to Revision A for Original Signature

Client: CANNON POINT DEVELOPMENT LTD

Project: EAST BLOCK TACOMA DRIVE. TOTARA PARK UPPER HUTT

Title: SEWER LONG SECTION SHEET 3

Discipline: CIVIL

Vecta Ref. No. 26014 | Drawing No. C318 | Rev. D

SCALE 1:100 SCALE 1:500

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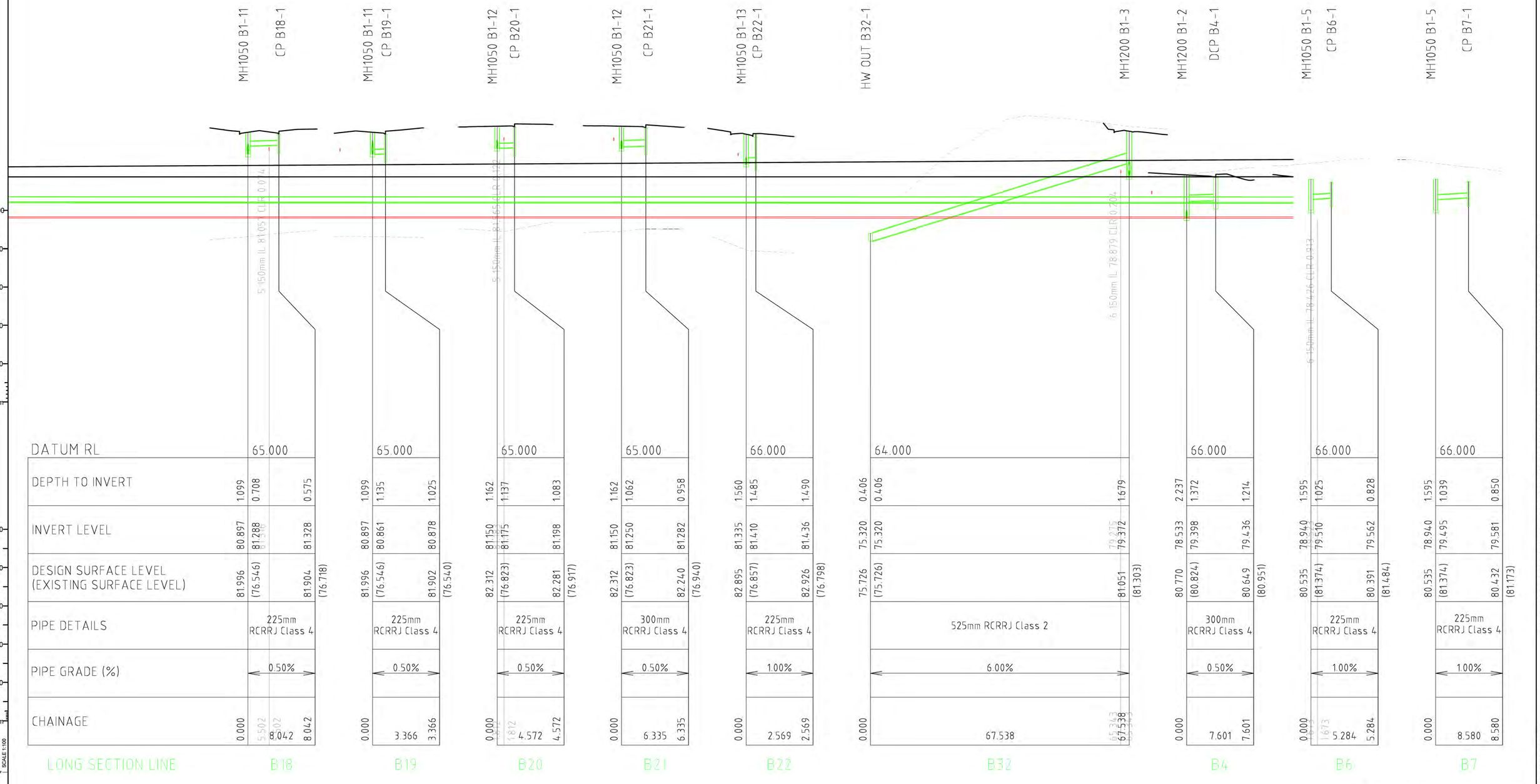
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Reduced Scale (A3)	1/2 SHOWN	Drawn	JD	26.02.24
		Dsg Verifier	JM	26.02.24
		Dwg Check	JM	26.02.24

Approved For Issue* Date
* Refer to Revision A for Original Signature

Client: CANNON POINT DEVELOPMENT LTD

Project: EAST BLOCK
TACOMA DRIVE. TOTARA PARK
UPPER HUTT

Title: STORMWATER LONG SECTION
SHEET 5

Discipline: CIVIL

Vecta Ref. No.	Drawing No.	Rev.
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