

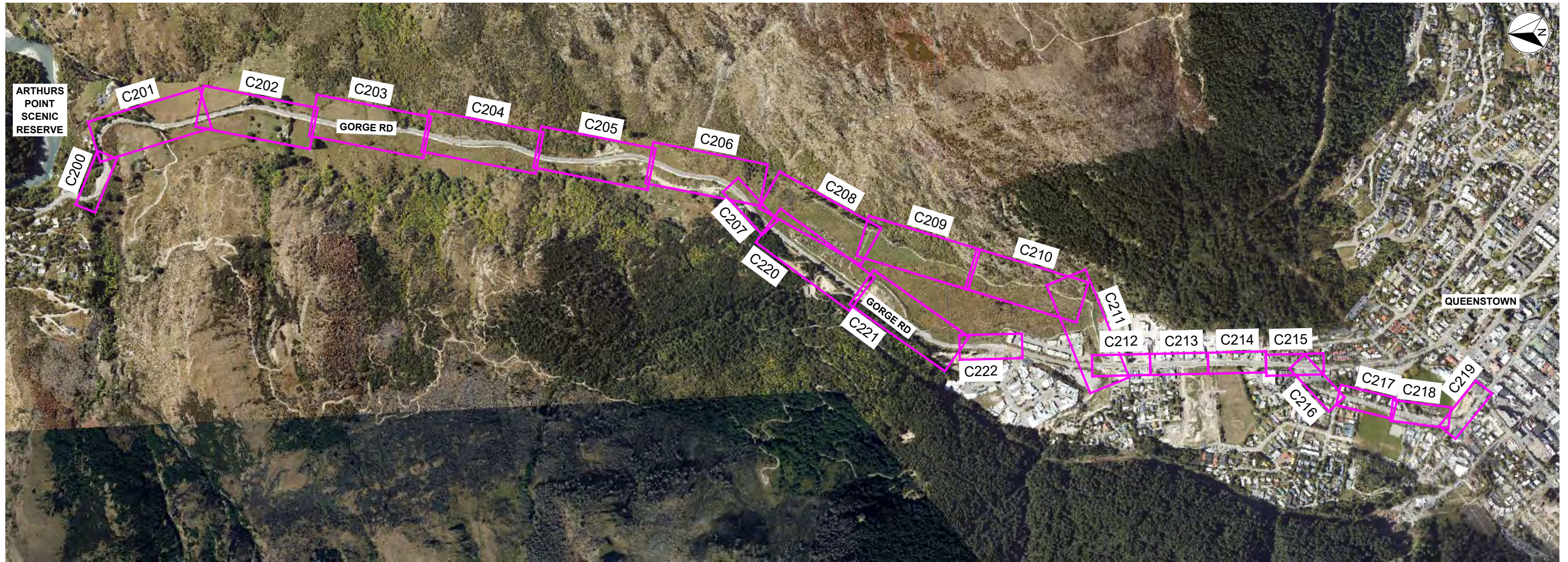


QUEENSTOWN
LAKES DISTRICT
COUNCIL

**QUEENSTOWN LAKES DISTRICT COUNCIL
WAKATIPU ACTIVE TRAVEL
WATN STAGE 2 ROUTES - ROUTE C5**

**CIVIL
FOR TENDER**

Project No: 6-XQ141.00
Date: 2021-10-22



300 mm
200
100
50
0 10 mm

DRAWING INDEX	
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DRAWING INDEX	
SHEET NO	TITLE
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C408 - C411	SERVICES PLANS - MATAKAURI PARK
C412 - C415	SERVICES PLANS - GORGE RD (CBD)
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C800 - C810	ROBINS ROAD BRIDGE EXPANSION
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OVERALL LAYOUT PLAN
SCALE 1:6000 (A1), 1:12000 (A3)

REVISION	AMENDMENT	APPROVED	DATE
A	ISSUED FOR SAFETY AUDIT	S.S.	2021-07-09
B	DETAILED DESIGN ISSUED FOR CLIENT REVIEW	R.G.	2021-08-02
C	DETAILED DESIGN ISSUED FOR CLIENT APPROVAL	R.G.	2021-08-30
D	DETAILED DESIGN ISSUED FOR TENDER	R.G.	2021-10-22



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New Zealand

CIVIL

SCALES		ORIGINAL SIZE
1:6000 (A1), 1:12000 (A3)		A1
DRAWN	DESIGNED	APPROVED
P. FIEREK	P. FIEREK	R. GILL
DRAWING VERIFIED	DESIGN VERIFIED	APPROVED DATE
S. FORBES	S. SHERLAW	2021-07-09

FOR TENDER

PROJECT			
QUEENSTOWN LAKES DISTRICT COUNCIL WAKATIPU ACTIVE TRAVEL WATN STAGE 2 ROUTES - ROUTE C5			
TITLE			
OVERALL LAYOUT PLAN AND INDEX SHEET			
WSP PROJECT NO.	PROJ-ORIG-VOL-LOC-TYPE	SHEET NO.	REVISION
6-QX141.00	6-QX141-WSP-01-C5-DR	C002	D

UTILITIES AND SERVICES WITHIN ROAD RESERVE

PUBLIC UTILITIES AND PRIVATE SERVICES

THE CONTRACTOR'S ATTENTION IS DRAWN TO CLAUSE 5.13 OF NZS 3910:2013.

IT WILL BE THE CONTRACTOR'S RESPONSIBILITY TO UNDERTAKE THE INITIAL LIAISON WITH UTILITY AUTHORITIES TO DETERMINE THE PRESENCE OF SERVICES.

THE CONTRACTOR SHALL DETERMINE THE PRESENCE OF SERVICES AT SUCH A TIME SO THAT CRITICAL PATH ITEMS IN THE PROGRAM ARE NOT AFFECTED SHOULD THE LOCATED SERVICES NEED TO BE RELOCATED, OR TWO WEEKS IN ADVANCE OF WORKS COMMENCING WHERE THEY MAY BE AFFECTED BY SERVICES.

CHORUS HAS UNDERGROUND FIBRE OPTIC CABLES AND AURORA/DELTA HAS UNDERGROUND AND OVERHEAD HIGH VOLTAGE CABLES AND LIGHTING CABLES IN THE VICINITY OF THE SITE.

LINZ MAY HAVE SURVEY MARKS WITHIN ROAD RESERVE IN THE VICINITY OF THE SITE, CARE SHOULD BE TAKEN TO PROTECT ALL SURVEY MARKS DURING CONSTRUCTION.

THE UNDERGROUND POWER SUPPLIES ARE HIGH VOLTAGE AND IT IS THE CONTRACTORS RESPONSIBILITY TO BE AWARE OF THE REGULATIONS AND REQUIREMENTS FOR WORKING IN THE PROXIMITY OF THIS POTENTIAL HAZARD AND FOR NOTIFYING THE WORKSAFE NZ.

IN ADDITION, ANY EXISTING PRIVATE SERVICES, SUCH AS DRAINAGE, DOMESTIC WATER SUPPLIES, ELECTRICAL SUPPLY AND CHORUS CONNECTIONS, MUST BE MAINTAINED IN FULL WORKING ORDER THROUGHOUT THE DURATION OF THE WORKS. QLDC CAN PROVIDE INFORMATION ON THE EXISTING COUNCIL SERVICES.

THE CONTRACTOR MUST MAKE ALLOWANCE FOR ANY INCONVENIENCE IN CARRYING OUT THE CONSTRUCTION WITHOUT CAUSING DAMAGE OR DISRUPTION TO VARIOUS SERVICES. THE CONTRACTOR SHALL BE RESPONSIBLE FOR THE COST OF REPAIR FOR ANY DAMAGE THAT OCCURS DURING CONSTRUCTION.

THE CONTRACTOR MUST PERMIT THE ENTRY OF NETWORK UTILITY OPERATOR WORKPERSON WHO MAY BE REQUIRED TO CARRY OUT REPAIRS OR OTHER WORK ON THE SERVICES.

ALL SERVICES AND UTILITY COVERS AND FRAMES ARE TO BE RAISED / RELOCATED IN ACCORDANCE WITH QUEENSTOWN LAKES DISTRICT COUNCIL (QLDC) LAND DEVELOPMENT AND SUBDIVISION CODE OF PRACTICE & APPENDIX B STANDARD CONSTRUCTION DRAWINGS.

ALL SERVICE AND UTILITY COVERS ARE TO BE SET FLUSH WITH THE FINISHED FOOTPATH / ROAD SURFACE, IF THERE IS A LIP GREATER THAN 5mm IN THE FOOTPATH THE CONTRACTOR MUST REMOVE AND RESET COVER & FRAME FLUSH WITH THE SURROUNDING FOOTPATH SURFACE.

SIGNAGE AND PAVEMENT MARKINGS:

ALL SIGNS AND PAVEMENT MARKINGS SHOWN ARE TO BE IN ACCORDANCE WITH WAKA KOTAHI NZ TRANSPORT AGENCY'S TRAFFIC CONTROL DEVICE (TCD) MANUAL, MANUAL OF TRAFFIC SIGNS AND MARKINGS: PART 1 - TRAFFIC SIGNS (2011) AND PART 2 - MARKINGS (2011).

CONTRACTOR TO CONFIRM THE LOCATION OF ALL SERVICES ON SITE PRIOR TO COMMENCEMENT OF EXCAVATION FOR PLACEMENT OF SIGN POLE EMBEDMENT FOUNDATION.

ALL KERBS ON TRAFFIC ISLANDS TO BE PAINTED WITH WHITE REFLECTORISED MARKINGS TO MEET STANDARD SPECIFIED IN WAKA KOTAHI NZTA P30 DOCUMENT.

RAISED PAVEMENT MARKERS NOT SHOWN, REFER TO TCD AND MOTSAM FOR LOCATIONS AND REQUIREMENTS.

ALL PAVEMENT MARKING DIMENSIONS ARE TO BE CONFIRMED ON SITE BEFORE MARKING COMMENCES.

LOCATION OF ALL SIGNS ARE TO BE CONFIRMED ON SITE BY THE ENGINEER.

STORMWATER DRAINAGE

MANHOLE / SUMP INSTALLATION

CONTRACTOR SHALL INSTALL PRECAST MANHOLE / SUMP UNITS AT THE LOCATIONS SHOWN ON THE CONSTRUCTION DRAWINGS OR AS DETERMINED ON SITE BY THE ENGINEER. THE CONTRACTOR SHALL VERIFY THE REQUIRED HEIGHT OF THE DRAINAGE STRUCTURE UNITS ON SITE.

THE RISER UNIT SHALL BE PLACED ON CONCRETE POURED IN-SITU TO FORM FOOTING FOR THE BASE OF THE UNITS. THE CONCRETE FOOTINGS SHALL BE KEPT TO A MINIMUM AS SHOWN ON THE CONSTRUCTION DRAWINGS.

ALL IN SITU CONCRETE SHALL HAVE A MINIMUM COMPRESSIVE STRENGTH OF 20MPa @ 28 DAYS.

ALL PRECAST MANHOLE UNITS (SHOWN SHADED IN DRAWING B1-6) TO BE STANDARD MANUFACTURED UNITS. (IE. HUMES OR SIMILAR APPROVED)

ALL BRANCHES SHALL BE CONSTRUCTED SUCH THAT THEY CAN BE READILY ACCESSED BY CCTV CAMERA. THE CORBALS DETAIL (IE. CROSS SECTION) SHALL NOT BE COMPROMISED. IF REQUIRED, THE "STRAIGHT THROUGH" CHANNEL SHALL BE OFFSET FROM THE MANHOLE CENTRELINE AND THE BRANCH CHANNELING LEFT STRAIGHT FOR A SUFFICIENT LENGTH TO ACHIEVE THE DESIRED RESULT.

ACCESS OPENING TO BE LOCATED OVER THE DOWNSTREAM SIDE OF THE MANHOLE.

IF A DEVIATION IS SOUGHT FROM THE REQUIREMENTS IN THE DETAIL ABOVE, JUSTIFIABLE CALCULATIONS MUST BE GIVEN AND BE TO COUNCIL'S SATISFACTION.

PIPE DEFLECTION GREATER THAN >75° SHALL REQUIRE SPECIFIC DESIGN FOR MANHOLE RISERS FOR ANY DIAMETER OF PIPE GREATER THAN 375mm.

ALL SUMPS SHOULD BE 1800mm DEPTH AND WITH A MINIMUM SEDIMENT STORAGE DEPTH OF 450mm IS TO BE PROVIDED (TO INVERT OF PIPE).

ROAD SUMPS TO BE PLACED AT 90m (MAX.) INTERVALS, DOUBLE SUMPS TO BE INSTALLED IN PLACE OF SINGLE SUMPS, UNDER VERTICAL CURVES IN ROADS AND ON ALL ROADS WITH VERTICAL GRADIENTS EXCEEDING 10%. SPECIFIC DESIGN REQUIRED WHERE GRADIENT EXCEEDS 12%.

WHERE GRADIENTS EXCEED 10%, CHANNEL TRANSITION INTO DOUBLE MUDTANK TO BE 800mm AND CHANNEL TO BE FORMED DIRECTLY INTO BACK ENTRY.

REDUCED COVER WHERE THE LEADS LEAVE THE MUD SUMP IS ACCEPTABLE. THIS SHOULD NOT REDUCE BELOW A MINIMUM OF 600mm COVER TO PIPE. THE LENGTH OF PIPE WITH REDUCED COVER SHOULD BE MINIMISED AND AVOID EXTENDING INTO THE WHEEL TRACKS AS FAR AS POSSIBLE.

THE CONTRACTOR MAY PROVIDE A SIMILAR ALTERNATIVE SUBJECT TO APPROVAL BY THE ENGINEER.

STORMWATER PVC-U PIPES

THE SUPPLY AND INSTALLATION OF PVC-U STORMWATER PIPES SHALL BE CARRIED OUT IN ACCORDANCE WITH AS/NZS 3500.3:2003 AND AS/NZS 1254:2010 AND CENTRAL OTAGO DISTRICT COUNCIL'S ADDENDUM NZS 4404:2004 AND AS SHOWN ON THE DRAWINGS.

EXTENT AND LOCATION OF STORMWATER SUMPS, PIPES AND SOAKPITS TO BE CONFIRMED ON SITE WITH QLDC ROADING ENGINEER.

GENERAL NOTES:

REFER TO QUEENSTOWN LAKES DISTRICT COUNCIL (QLDC) LAND DEVELOPMENT AND SUBDIVISION CODE OF PRACTICE & APPENDIX B STANDARD CONSTRUCTION DRAWINGS AND ALSO WSP SHEETS C270 AND C271.

COVER IN TRAFFICABLE CARRIAGEWAYS AND OTHER TRAFFICABLE AREAS SHALL BE NO LESS THAN 1M. COVER OUTSIDE OF THE CARRIAGEWAY, CROSSINGS OR OTHER NON-TRAFFICABLE AREAS SHALL BE NO LESS THAN 0.6M.

IN-SITU REINFORCED CONCRETE WORKS

IN-SITU CONCRETE ROADS, RAMPS AND DRIVEWAYS ARE TO BE CONSTRUCTED AS DETAILED ON THE CONSTRUCTION DRAWINGS.

CONCRETE STRENGTH TO BE OF THE MINIMUM AS SHOWN ON THE CONSTRUCTION DRAWINGS.

ALL CONCRETE CONSTRUCTION SHALL BE IN ACCORDANCE WITH NZS 3109:1997.

FORMATION OF SUBGRADE LEVEL

THE COMPLETED FORMATION TO SUBGRADE LEVEL FOR FOOTPATHS, DRIVEWAYS ETC. SHALL BE WELL COMPACTED AND FIRM, FREE FROM ANY WEAK SPOTS AND LOOSE MATERIAL.

GRANULAR BEDDING

GRANULAR BEDDING AS SHOWN ON THE DRAWINGS SHALL BE PLACED ON THE APPROVED SUBGRADE AND COMPACTED TO THE SPECIFIED DEPTH AS SHOWN ON THE CONSTRUCTION DRAWINGS.

WORKMANSHIP

ALL CONCRETE SHALL BE CAST IN FORMWORK UNLESS SPECIFICALLY APPROVED OTHERWISE BY THE ENGINEER.

THE CONTRACTOR SHALL PROVIDE AND / OR BUILD-IN, AS WORK PROCEEDS, ALL DUCTS, BRACKETS, BOLTS, FIXINGS, ETC. AS DETAILED AND AS REQUIRED.

ANY PENETRATIONS (CHASES OR HOLES) REQUIRED FOR SERVICES OR FOR ANY OTHER REASON SHALL BE FORMED TO THE SPECIFIED SIZE (+/-10mm) UNLESS SPECIFIC APPROVAL IS OBTAINED FROM THE ENGINEER.

FORMWORK

ALL FORMWORK SHALL BE CLEAN, FREE OF DEBRIS, STRAIGHT AND TO THE FULL DEPTH OF THE SURFACE TO BE FORMED.

TIMBER FORMWORK SHALL BE WETTED WITH CLEAN WATER IMMEDIATELY PRIOR TO PLACING THE CONCRETE UNLESS AN APPROVED FORM DRESSING IS USED. SURPLUS WATER SHALL BE REMOVED BEFORE THE CONCRETE IS PLACED. FOR CURVES, FORMWORK SHALL BE INSTALLED TO FORM SMOOTH CURVES WHILST MAINTAINING THE SPECIFIED WIDTHS AND CONCRETE DEPTHS.

FORMWORK SHALL BE CONSTRUCTED AND MAINTAINED TO PRODUCE MORTAR TIGHT JOINTS AND SMOOTH EVEN FACES, FREE FROM WARPS, MISALIGNMENT AND BULGES. FORMWORK SHALL BE SUFFICIENTLY BRACED TO ENSURE NO DEFLECTION OCCURS DURING CONSTRUCTION.

IF DURING PLACING, UNDUE SETTLEMENT, BULGING OR OTHER DEFECTS BECOME APPARENT IN THE FORMWORK, THE CONTRACTOR SHALL TAKE ALL NECESSARY STEPS TO REMEDY THE DEFECTS TO THE APPROVAL OF THE ENGINEER, OR REMOVE AND REPLACE THE DEFECTIVE CONSTRUCTION.

REINFORCEMENT

REINFORCEMENT SHALL BE SUPPORTED IN PLACE AT THE DEPTH SPECIFIED WITH CHAIRS, SPACERS, HANGERS OR BY OTHER SOUND PRACTICE.

ALL BAR REINFORCEMENT SHALL HAVE A MINIMUM COVER OF 75MM WHERE PLACED AGAINST THE GROUND, WHERE GROUND IS PROTECTED WITH A DPC, CLEARANCE CAN BE REDUCED TO 60MM. ALL OTHER CASES 60mm, UNLESS OTHERWISE SPECIFIED. MESH REINFORCING IS TO BE PLACED CENTRALLY.

ALL REINFORCEMENT SHALL BE WIRED TOGETHER TO ENSURE THE LOCATION OF THE REINFORCEMENT IS PLACED IN ACCORDANCE WITH THE PLANS AND SPECIFICATIONS AND WILL NOT MOVE DURING PLACEMENT OF CONCRETE.

ENDS OF REINFORCEMENT BARS, WHICH ARE TEMPORARILY EXPOSED, SHALL BE 'CAPPED' TO PREVENT INJURY TO SITE PERSONNEL OR OTHERS.

THE CONTRACTOR SHALL PROVIDE WALKWAYS WHERE NECESSARY TO PREVENT DEFORMATION OR DISPLACEMENT OF REINFORCEMENT DUE TO CONSTRUCTION OPERATIONS IF ACCESS OVER THE PREPARED SURFACE AND REINFORCING IS REQUIRED.

CONCRETE PLACEMENT

THE CONTRACTOR SHALL ENSURE THAT ALL CONCRETE WORK IS ADEQUATELY SUPERVISED AND THAT AN ADEQUATE NUMBER OF WORKERS AND SUFFICIENT EQUIPMENT ARE EMPLOYED TO ENSURE THAT THE CONCRETE IS QUICKLY AND THOROUGHLY PLACED AND CONSOLIDATED, AND PROPERLY FILLS ALL VOIDS WITHOUT DISPLACING REINFORCING.

CONCRETE SHALL BE PLACED WITHIN 30 MINUTES OF DISCHARGE FROM THE TRUCK AGITATOR OR BEFORE INITIAL SET WHICHEVER IS SOONER. NO CONCRETE SHALL BE PLACED UNDER UNFAVOURABLE WEATHER CONDITIONS.

ALL CONCRETE SHALL BE FULLY COMPACTED WITH APPROPRIATE MECHANICAL VIBRATOR, SUPPLEMENTED WHERE NECESSARY BY HAND METHODS.

CONCRETE SHALL BE PLACED IN LAYERS NOT EXCEEDING 0.5 METRES (WHERE NECESSARY), WITH EACH LAYER BEING FULLY COMPACTED. FRESH CONCRETE SHALL NOT BE PLACED UPON A PRECEDING LAYER AFTER AN INTERVAL EXCEEDING 45 MINUTES.

CONSTRUCTION JOINTS

CONSTRUCTION JOINTS SHALL BE FORMED IN LOCATIONS AS INDICATED ON THE CONSTRUCTION DRAWINGS OR AS ADVISED BY THE ENGINEER TO MINIMISE THE EFFECTS OF SHRINKAGE. JOINTS SHALL COMPLY WITH NZS 3124.

ALL CONCRETE SLABS SHALL HAVE SHRINKAGE CONTROL JOINTS FORMED BY SAWCUTTING. THE CUTS SHALL BE TO A DEPTH OF ONE QUARTER OF

THE CONCRETE DEPTH THICKNESS AND TRUE TO LINE FOR THE FULL LENGTH OF THE CUT. SAWCUTS SHALL BE CARRIED OUT AS SOON AS POSSIBLE WITHOUT DAMAGING THE CONCRETE SURFACE AND NOT MORE THAN 48 HOURS AFTER THE CONCRETE IS POURED

WHERE REQUIRED BY COUNCIL STANDARDS, CONTROL JOINTS IN FOOTPATHS SHALL BE MADE WITH AN APPOINTED JOINTING TOOL IN LIEU OF SAWCUTTING.

IN GENERAL, CONSTRUCTION JOINTS SHALL BE AT 3 METRE CENTRES FOR FOOTPATHS, AND 4 METRE CENTRES FOR LARGE POURED AREAS UNLESS OTHERWISE SPECIFIED.

EXPANSION JOINTS (FREE END JOINTS) ALLOW FOR THERMAL EXPANSION OF LARGE EXPANSES OF CONCRETE PAVEMENT SHALL BE INSTALLED WHERE SHOWN ON THE DRAWINGS TO THE DESIGN DETAILS. EXPANSION JOINTS SHALL INCLUDE A COMPRESSIBLE COMPOUND. THE COMPRESSIBLE COMPOUND IN THE JOINT SHALL BE "SIKAFLEX" OR APPROVED EQUIVALENT APPLIED TO GAP WIDTHS RECOMMENDED BY THE MANUFACTURER. FINISHING AND TOLERANCES SHALL COMPLY WITH NZS 3124.

INSPECTIONS

THE CONTRACTOR SHALL NOTIFY THE ENGINEER FOR INSPECTION OF THE WORKS FOLLOWING:

- SETTING OUT
- PREPARATION OF SUBGRADE
- FORMWORK AND REINFORCEMENT PLACEMENT
- COMPLETION OF CONCRETE AFTER FORMWORK REMOVED AND GROUND REINSTATEMENT.
- INSPECTIONS BY THE APPROVING AUTHORITY IN ACCORDANCE WITH THE INSPECTION SCHEDULE IN ANY BUILDING CONSENT.
- THE CONTRACTOR SHALL ARRANGE ALL INSPECTIONS BY APPROVING AUTHORITIES RELATING TO BUILDING CONSENTS.

CONCRETE STRENGTHS AND SURFACE FINISHES

THE SURFACE FINISHES SHALL BE TO NZS 3114. FOR VARIOUS PARTS OF THE WORK THESE SHALL BE AS DESIGNATED BELOW.

(USE THE TABLE BELOW TO LIST WHAT TYPE OF

Surface Description	Concrete Strength	Notes
Kerbs & Footpaths	20-25 MPa	Refer Construction Drawings
Driveways	20 MPa	Refer Construction Drawings
Platforms and Ramps	40 MPa	Refer Construction Drawings

CONCRETE IS BEING USED)

CURING

ALL SURFACES SHALL BE KEPT CONTINUOUSLY DAMP FOR SEVEN DAYS AFTER POURING OR PROVIDED WITH OTHER CURING METHODS SUBJECT TO THE APPROVAL OF THE ENGINEER

CURING AND PROTECTION SHALL COMPLY WITH NZS 3109:1997.

WHEN CONCRETING IN HOT WEATHER PROTECT THE CONCRETE FROM THE DIRECT RAYS OF THE SUN.

WET THE SUB-BASE AGGREGATE IMMEDIATELY PRIOR TO POURING THE CONCRETE.

KEEP CONCRETE SURFACES DAMP FOLLOWING THE POURING.

DO NOT COMMENCE CONCRETING WHEN HEAVY RAIN IS FALLING, FROST, OR WHERE THERE IS A THREAT THAT THE WEATHER MAY DETERIORATE.

REMOVAL OF FORMWORK

FORMWORK SHALL BE REMOVED WITHOUT DAMAGE TO THE CONCRETE AND NOT LESS THAN THE TIMES SET OUT IN NZS 3109 OR AS SPECIFIED.

COMPLETION

ON COMPLETION OF THE WORK, THE CONTRACTOR SHALL CLEAN DOWN ALL EXPOSED FINISHED WORK AND REMOVE ALL STAINS AND DISCOLORATIONS, REMEDY ANY DEFECTS AS DIRECTED BY THE ENGINEER, AND LEAVE FIT FOR USE OR FINISHING TREATMENTS.

ON COMPLETION OF THE WORK, THE CONTRACTOR SHALL ENSURE ALL SURFACES AFFECTED BY THE WORKS ARE REINSTATED TO PRE-CONSTRUCTION CONDITION (E.G. TOPSOILED AND GRASSED) UNLESS SPECIFIED OTHERWISE.

THE CONTRACTOR SHALL REMOVE ALL RUBBISH AND SPOIL FROM THE SITE ON COMPLETION OF THE WORKS, LEAVING THE SITE IN A CLEAN AND TIDY CONDITION.

REVISION	AMENDMENT	APPROVED	DATE
A	DETAILED DESIGN ISSUED FOR CLIENT REVIEW	R.G.	2021-08-02
B	DETAILED DESIGN ISSUED FOR CLIENT APPROVAL	R.G.	2021-08-30
C	DETAILED DESIGN ISSUED FOR TENDER	R.G.	2021-10-22



SCALES		ORIGINAL SIZE
N.T.S.		A1
DRAWN	DESIGNED	APPROVED
P. FIEREK	P.FIEREK	R.GILL
DRAWING VERIFIED	DESIGN VERIFIED	APPROVED DATE
S.FORBES	S.SHERLAW	2021-08-02

PROJECT
QUEENSTOWN LAKES DISTRICT COUNCIL
WAKATIPU ACTIVE TRAVEL
WATN STAGE 2 ROUTES - ROUTE C5

TITLE
GENERAL NOTES

WSP PROJECT NO.	PROJ-ORIG-VOL-LOC-TYPE	SHEET NO.	REVISION
6-XQ141.00	6-XQ141-WSP-01-C5-DR	C003	C

CIVIL

FOR TENDER

LEGEND	
EXISTING	
---	LEGAL BOUNDARY
---	KERB & CHANNEL
---	EDGE OF SEAL
---	FENCE
---	GUARDRAIL
---	TOP OF BANK
---	BOTTOM OF BANK
█	BRIDGE

- NOTES**
- CARRY OUT DEMOLITION ONLY UNDER THE SUPERVISION OF A SUITABLY EXPERIENCED PERSON AND USING ONLY EXPERIENCED OPERATORS AND DRIVERS.
 - PREVENT ACCESS BY UNAUTHORISED PERSONS. ILLUMINATE AND PROTECT ALL HOLES, UNSAFE BUILDINGS AND OTHER HAZARDS. LEAVE SITE SAFE AT THE CLOSE OF EACH WORK DAY.
 - REINSTATE AND MAKE GOOD DEMOLITION DAMAGE TO ADJOINING PROPERTIES, EXISTING WORK, SERVICES OR PROPERTY.
 - REMOVAL AND DEMOLITION OF POWER AND CHORUS SERVICES AND CABLES TO BE CARRIED OUT IN CONJUNCTION WITH ELECTRICAL CONTRACTOR.
 - SURVEY MARKS: ALL LEGAL SURVEY MARKS AFFECTED BY WORKS SHALL BE PROTECTED.

300 mm
200
100
50
0 10 mm



1:250 @ A1
1:500 @ A3

1:500 @ A1
1:1000 @ A3

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CIVIL

SCALES		ORIGINAL SIZE
1:250 (A1) AND 1:500 (A1)		A1
DRAWN	DESIGNED	APPROVED
P. FIEREK	P. FIEREK	R. GILL
DRAWING VERIFIED	DESIGN VERIFIED	APPROVED DATE
S. FORBES	S. SHERLAW	2021-08-02

FOR TENDER

PROJECT			
QUEENSTOWN LAKES DISTRICT COUNCIL WAKATIPU ACTIVE TRAVEL WATN STAGE 2 ROUTES - ROUTE C5			
TITLE			
EXISTING SITE LAYOUT/ DEMOLITION PLAN SHEET 1 OF 13			
WSP PROJECT NO.	PROJ-ORIG-VOL-LOC-TYPE	SHEET NO.	REVISION
6-QX141.00	6-QX141-WSP-01-C5-DR	C100	C

LEGEND	
EXISTING	
---	LEGAL BOUNDARY
---	KERB & CHANNEL
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---	GUARDRAIL
---	TOP OF BANK
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300 mm
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PLAN
SCALE 1:500(A1), 1:1000(A3)



PLAN
SCALE 1:500(A1), 1:1000(A3)

1:500 @ A1
1:1000 @ A3

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New Zealand

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SCALES		ORIGINAL SIZE
1:500 @ A1		A1
DRAWN	DESIGNED	APPROVED
P. FIEREK	P. FIEREK	R. GILL
DRAWING VERIFIED	DESIGN VERIFIED	APPROVED DATE
S. FORBES	S. SHERLAW	2021-08-02

FOR TENDER

PROJECT			
QUEENSTOWN LAKES DISTRICT COUNCIL WAKATIPU ACTIVE TRAVEL WATN STAGE 2 ROUTES - ROUTE C5			
TITLE			
EXISTING SITE LAYOUT/ DEMOLITION PLAN SHEET 2 OF 13			
WSP PROJECT NO.	PROJ-ORIG-VOL-LOC-TYPE	SHEET NO.	REVISION
6-QX141.00	6-QX141-WSP-01-C5-DR	C101	C

LEGEND	
EXISTING	
---	LEGAL BOUNDARY
---	KERB & CHANNEL
---	EDGE OF SEAL
---	FENCE
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---	BOTTOM OF BANK
---	BRIDGE

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1:1000 @ A3

REVISION	AMENDMENT	APPROVED	DATE
A	DETAILED DESIGN ISSUED FOR CLIENT REVIEW	R.G.	2021-08-02
B	DETAILED DESIGN ISSUED FOR CLIENT APPROVAL	R.G.	2021-08-30
C	DETAILED DESIGN ISSUED FOR TENDER	R.G.	2021-10-22



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Queenstown Office
+64 3 451 0360
PO Box 2323
Queenstown 9300
New Zealand

CIVIL

SCALES		ORIGINAL SIZE
1:500 @ A1		A1
DRAWN	DESIGNED	APPROVED
P. FIEREK	P. FIEREK	R. GILL
DRAWING VERIFIED	DESIGN VERIFIED	APPROVED DATE
S. FORBES	S. SHERLAW	2021-08-02

FOR TENDER

PROJECT			
QUEENSTOWN LAKES DISTRICT COUNCIL WAKATIPU ACTIVE TRAVEL WATN STAGE 2 ROUTES - ROUTE C5			
TITLE			
ROUTE C5 - EXISTING SITE LAYOUT/ DEMOLITION PLAN SHEET 3 OF 13			
WSP PROJECT NO.	PROJ-ORIG-VOL-LOC-TYPE	SHEET NO.	REVISION
6-QX141.00	6-QX141-WSP-01-C5-DR	C102	C

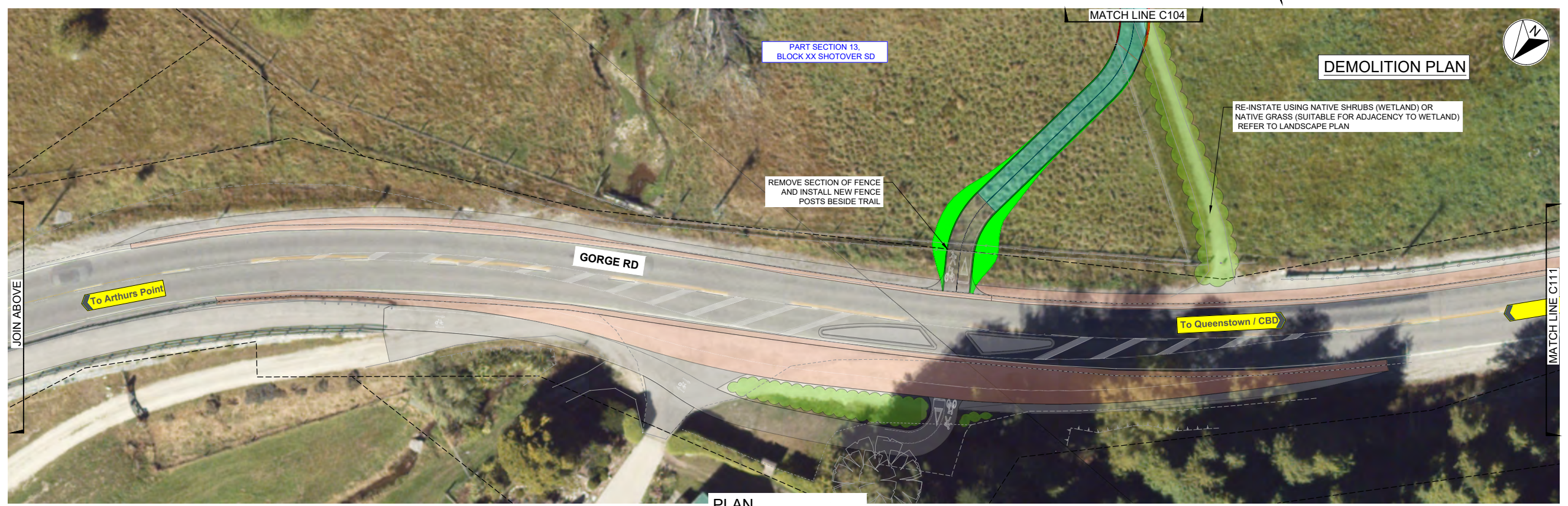
LEGEND	
EXISTING	
---	LEGAL BOUNDARY
---	KERB & CHANNEL
---	EDGE OF SEAL
---	FENCE
---	GUARDRAIL
---	TOP OF BANK
---	BOTTOM OF BANK
█	BRIDGE

- NOTES**
- CARRY OUT DEMOLITION ONLY UNDER THE SUPERVISION OF A SUITABLY EXPERIENCED PERSON AND USING ONLY EXPERIENCED OPERATORS AND DRIVERS.
 - PREVENT ACCESS BY UNAUTHORISED PERSONS. ILLUMINATE AND PROTECT ALL HOLES, UNSAFE BUILDINGS AND OTHER HAZARDS. LEAVE SITE SAFE AT THE CLOSE OF EACH WORK DAY.
 - REINSTATE AND MAKE GOOD DEMOLITION DAMAGE TO ADJOINING PROPERTIES, EXISTING WORK, SERVICES OR PROPERTY.
 - REMOVAL AND DEMOLITION OF POWER AND CHORUS SERVICES AND CABLES TO BE CARRIED OUT IN CONJUNCTION WITH ELECTRICAL CONTRACTOR.
 - SURVEY MARKS: ALL LEGAL SURVEY MARKS AFFECTED BY WORKS SHALL BE PROTECTED.

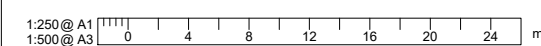
300 mm
200
100
50
0 10 mm



PLAN
SCALE 1:500(A1), 1:1000(A3)



PLAN
SCALE 1:250(A1), 1:500(A3)



REVISION	AMENDMENT	APPROVED	DATE
A	DETAILED DESIGN ISSUED FOR CLIENT REVIEW	R.G.	2021-08-02
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Queenstown 9300
New Zealand

CIVIL

SCALES		ORIGINAL SIZE
1:250 @ A1 AND 1:500 @ A1		A1
DRAWN	DESIGNED	APPROVED
P. FIEREK	P. FIEREK	R. GILL
DRAWING VERIFIED	DESIGN VERIFIED	APPROVED DATE
S. FORBES	S. SHERLAW	2021-08-02

FOR TENDER

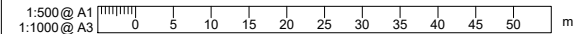
PROJECT			
QUEENSTOWN LAKES DISTRICT COUNCIL			
WAKATIPU ACTIVE TRAVEL			
WATN STAGE 2 ROUTES - ROUTE C5			
TITLE			
EXISTING SITE LAYOUT/ DEMOLITION PLAN			
SHEET 4 OF 13			
WSP PROJECT NO.	PROJ-ORIG-VOL-LOC-TYPE	SHEET NO.	REVISION
6-QX141.00	6-QX141-WSP-01-C5-DR	C103	C

LEGEND	
EXISTING	
---	LEGAL BOUNDARY
---	KERB & CHANNEL
---	EDGE OF SEAL
---	FENCE
---	GUARDRAIL
---	TOP OF BANK
---	BOTTOM OF BANK
█	BRIDGE

- NOTES**
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 - SURVEY MARKS: ALL LEGAL SURVEY MARKS AFFECTED BY WORKS SHALL BE PROTECTED.



PLAN
SCALE 1:500(A1), 1:1000(A3)



REVISION	AMENDMENT	APPROVED	DATE
A	DETAILED DESIGN ISSUED FOR CLIENT REVIEW	R.G.	2021-08-02
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C	DETAILED DESIGN ISSUED FOR TENDER	R.G.	2021-10-22



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Queenstown 9300
New Zealand

CIVIL

SCALES		ORIGINAL SIZE
1:500 @ A1		A1
DRAWN	DESIGNED	APPROVED
P. FIEREK	P. FIEREK	R. GILL
DRAWING VERIFIED	DESIGN VERIFIED	APPROVED DATE
S. FORBES	S. SHERLAW	2021-08-02

FOR TENDER

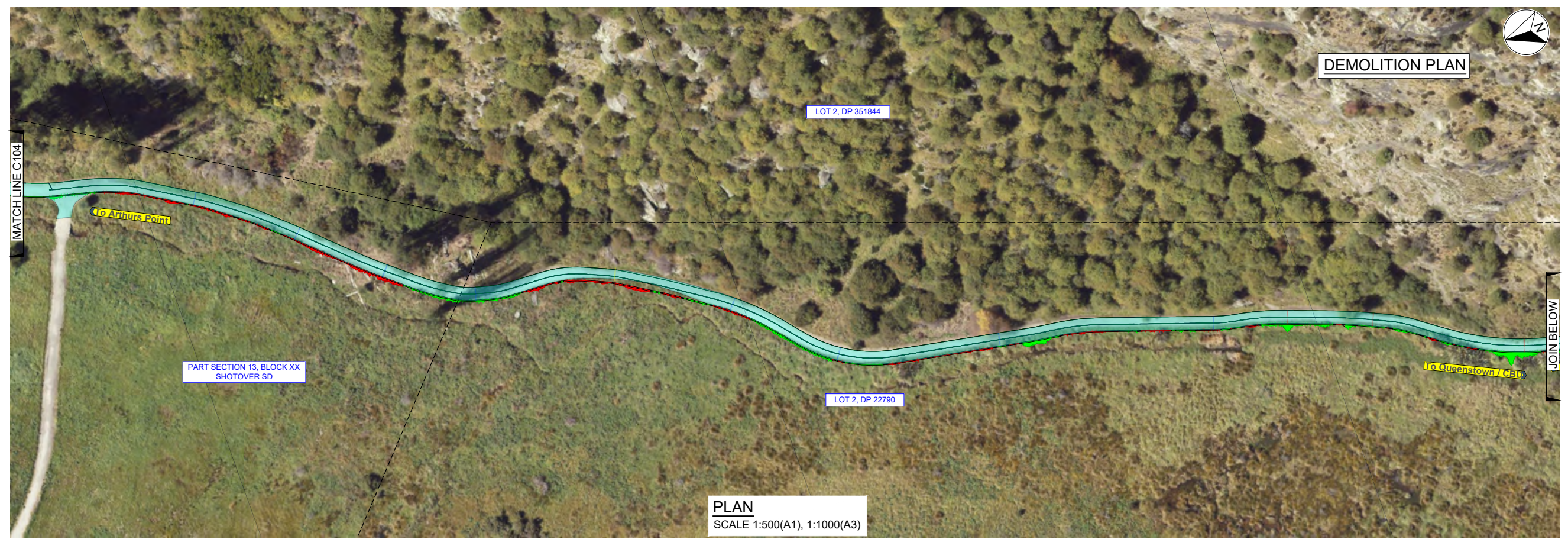
PROJECT			
QUEENSTOWN LAKES DISTRICT COUNCIL			
WAKATIPU ACTIVE TRAVEL			
WATN STAGE 2 ROUTES - ROUTE C5			
TITLE			
EXISTING SITE LAYOUT/ DEMOLITION PLAN			
SHEET 5 OF 13			
WSP PROJECT NO.	PROJ-ORIG-VOL-LOC-TYPE	SHEET NO.	REVISION
6-QX141.00	6-QX141-WSP-01-C5-DR	C104	C

LEGEND

EXISTING

- LEGAL BOUNDARY
- KERB & CHANNEL
- EDGE OF SEAL
- FENCE
- GUARDRAIL
- TOP OF BANK
- BOTTOM OF BANK
- █ BRIDGE

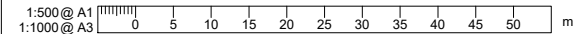
- NOTES**
1. CARRY OUT DEMOLITION ONLY UNDER THE SUPERVISION OF A SUITABLY EXPERIENCED PERSON AND USING ONLY EXPERIENCED OPERATORS AND DRIVERS.
 2. PREVENT ACCESS BY UNAUTHORISED PERSONS. ILLUMINATE AND PROTECT ALL HOLES, UNSAFE BUILDINGS AND OTHER HAZARDS. LEAVE SITE SAFE AT THE CLOSE OF EACH WORK DAY.
 3. REINSTATE AND MAKE GOOD DEMOLITION DAMAGE TO ADJOINING PROPERTIES, EXISTING WORK, SERVICES OR PROPERTY.
 4. REMOVAL AND DEMOLITION OF POWER AND CHORUS SERVICES AND CABLES TO BE CARRIED OUT IN CONJUNCTION WITH ELECTRICAL CONTRACTOR.
 5. SURVEY MARKS: ALL LEGAL SURVEY MARKS AFFECTED BY WORKS SHALL BE PROTECTED.



PLAN
SCALE 1:500(A1), 1:1000(A3)



PLAN
SCALE 1:500(A1), 1:1000(A3)



REVISION	AMENDMENT	APPROVED	DATE
A	DETAILED DESIGN ISSUED FOR CLIENT REVIEW	R.G.	2021-08-02
B	DETAILED DESIGN ISSUED FOR CLIENT APPROVAL	R.G.	2021-08-30
C	DETAILED DESIGN ISSUED FOR TENDER	R.G.	2021-10-22



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Queenstown 9300
New Zealand

CIVIL

SCALES	DESIGNED	APPROVED	ORIGINAL SIZE
1:500 @ A1	P. FIEREK	R. GILL	A1
DRAWN	DESIGN VERIFIED	APPROVED DATE	
P. FIEREK	S. SHERLAW	2021-08-02	
DRAWING VERIFIED	DESIGN VERIFIED	APPROVED DATE	
S. FORBES	S. SHERLAW	2021-08-02	

FOR TENDER

PROJECT			
QUEENSTOWN LAKES DISTRICT COUNCIL WAKATIPU ACTIVE TRAVEL WATN STAGE 2 ROUTES - ROUTE C5			
TITLE			
EXISTING SITE LAYOUT/ DEMOLITION PLAN SHEET 6 OF 13			
WSP PROJECT NO.	PROJ-ORIG-VOL-LOC-TYPE	SHEET NO.	REVISION
6-QX141.00	6-QX141-WSP-01-C5-DR	C105	C

LEGEND	
EXISTING	
---	LEGAL BOUNDARY
---	KERB & CHANNEL
---	EDGE OF SEAL
---	FENCE
---	GUARDRAIL
---	TOP OF BANK
---	BOTTOM OF BANK
█	BRIDGE

- NOTES**
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 - SURVEY MARKS: ALL LEGAL SURVEY MARKS AFFECTED BY WORKS SHALL BE PROTECTED.

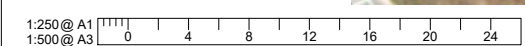
300 mm
200
100
50
0 10 mm



PLAN
SCALE 1:500(A1), 1:1000(A3)



PLAN
SCALE 1:250(A1), 1:500(A3)



REVISION	AMENDMENT	APPROVED	DATE
A	DETAILED DESIGN ISSUED FOR CLIENT REVIEW	R.G.	2021-08-02
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C	DETAILED DESIGN ISSUED FOR TENDER	R.G.	2021-10-22



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Queenstown 9300
New Zealand

CIVIL

SCALES		ORIGINAL SIZE
1:250 (A1) AND 1:500 (A1)		A1
DRAWN	DESIGNED	APPROVED
P. FIEREK	P. FIEREK	R. GILL
DRAWING VERIFIED	DESIGN VERIFIED	APPROVED DATE
S. FORBES	S. SHERLAW	2021-08-02

FOR TENDER

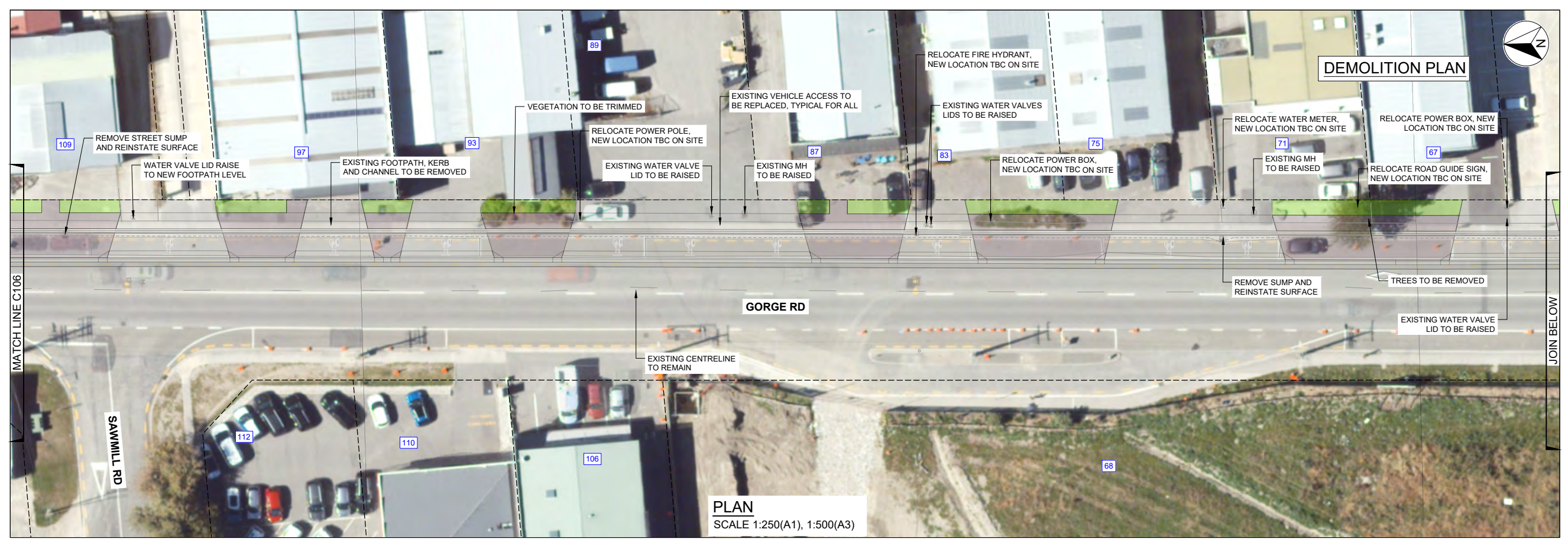
PROJECT		
QUEENSTOWN LAKES DISTRICT COUNCIL WAKATIPU ACTIVE TRAVEL WATN STAGE 2 ROUTES - ROUTE C5		
TITLE		
EXISTING SITE LAYOUT/ DEMOLITION PLAN SHEET 7 OF 13		
WSP PROJECT NO.	PROJ-ORIG-VOL-LOC-TYPE	SHEET NO.
6-QX141.00	6-QX141-WSP-01-C5-DR	C106
REVISION		
C		

LEGEND

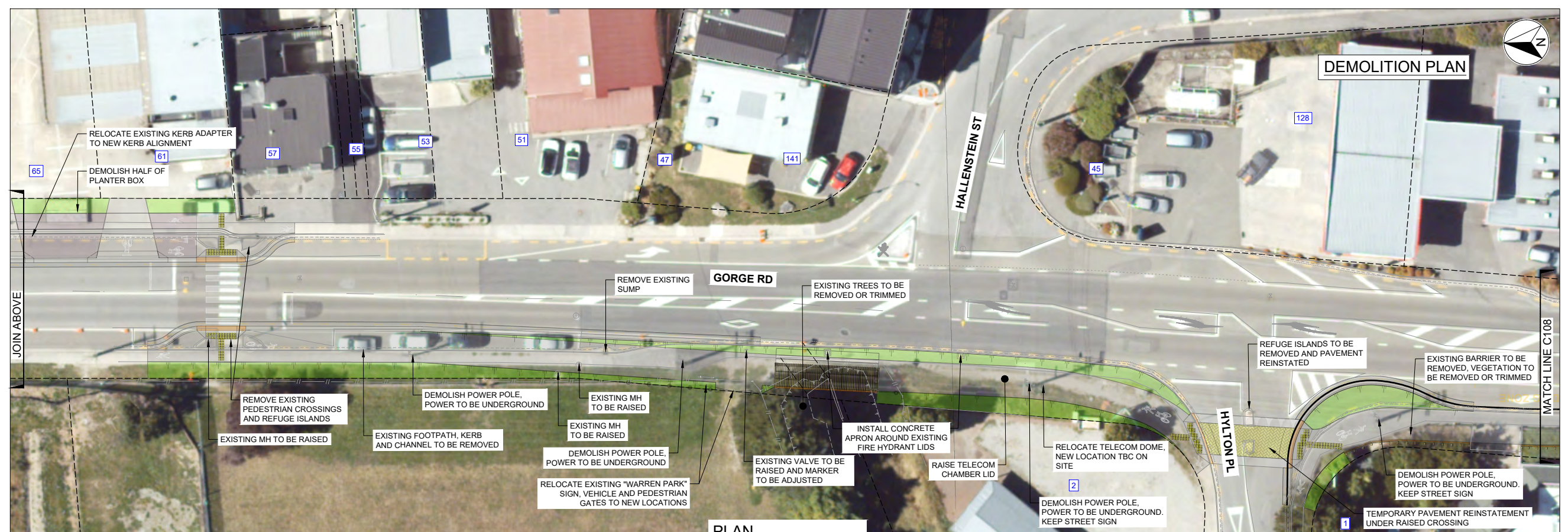
EXISTING

- LEGAL BOUNDARY
- KERB & CHANNEL
- EDGE OF SEAL
- FENCE
- GUARDRAIL
- TOP OF BANK
- BOTTOM OF BANK
- BRIDGE

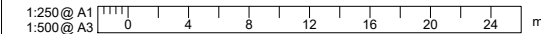
- NOTES**
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PLAN
SCALE 1:250(A1), 1:500(A3)



PLAN
SCALE 1:250(A1), 1:500(A3)



REVISION	AMENDMENT	APPROVED	DATE
A	DETAILED DESIGN ISSUED FOR CLIENT REVIEW	R.G.	2021-08-02
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C	DETAILED DESIGN ISSUED FOR TENDER	R.G.	2021-10-22



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New Zealand

CIVIL

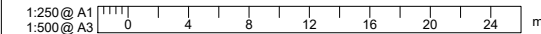
SCALES	DESIGNED	APPROVED	ORIGINAL SIZE
1:250 @ A1	P.FIEREK	R.GILL	A1
DRAWN	P.FIEREK	R.GILL	
DRAWING VERIFIED	S.SHERLAW	APPROVED DATE	
S.FORBES	S.SHERLAW	2021-08-02	

FOR TENDER

PROJECT	TITLE	WSP PROJECT NO.	PROJ-ORIG-VOL-LOC-TYPE	SHEET NO.	REVISION
QUEENSTOWN LAKES DISTRICT COUNCIL WAKATIPU ACTIVE TRAVEL WATN STAGE 2 ROUTES - ROUTE C5	EXISTING SITE LAYOUT/ DEMOLITION PLAN SHEET 8 OF 13	6-QX141.00	6-QX141-WSP-01-C5-DR	C107	C

LEGEND	
EXISTING	
---	LEGAL BOUNDARY
---	KERB & CHANNEL
---	EDGE OF SEAL
---	FENCE
---	GUARDRAIL
---	TOP OF BANK
---	BOTTOM OF BANK
█	BRIDGE

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C	DETAILED DESIGN ISSUED FOR TENDER	R.G.	2021-10-22



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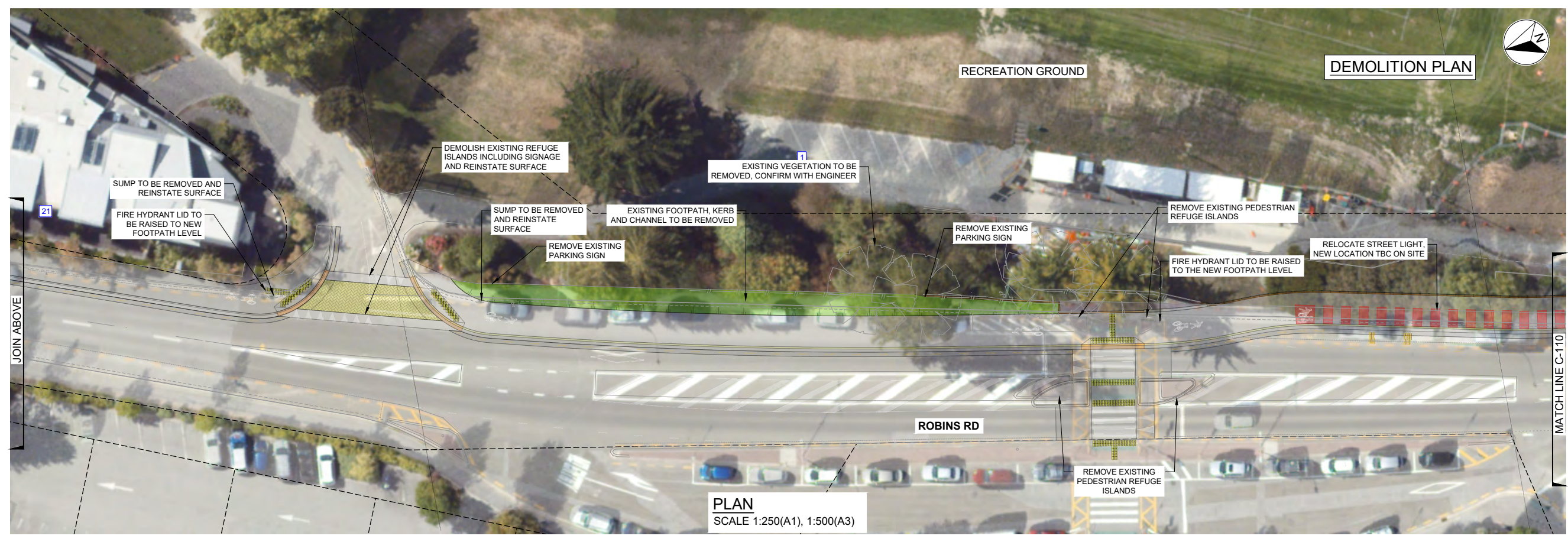
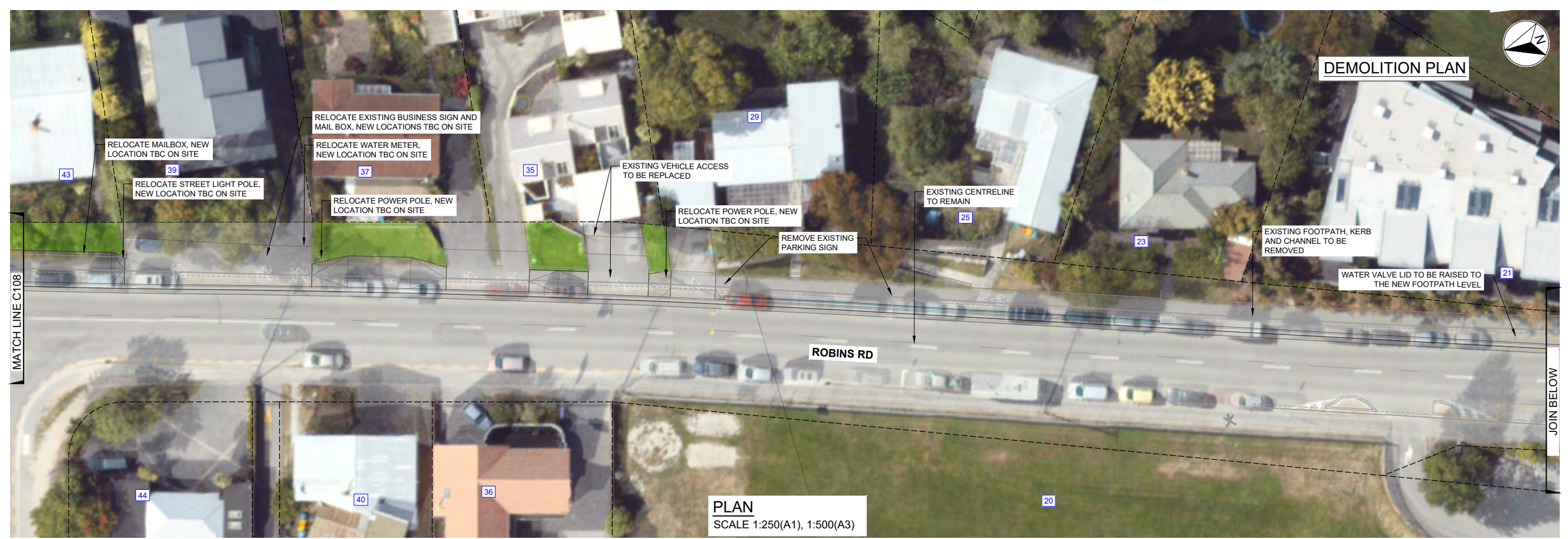
SCALES		ORIGINAL SIZE
1:250 @ A1		A1
DRAWN	DESIGNED	APPROVED
P. FIEREK	P. FIEREK	R. GILL
DRAWING VERIFIED	DESIGN VERIFIED	APPROVED DATE
S. FORBES	S. SHERLAW	2021-08-02

FOR TENDER

PROJECT			
QUEENSTOWN LAKES DISTRICT COUNCIL			
WAKATIPU ACTIVE TRAVEL			
WATN STAGE 2 ROUTES - ROUTE C5			
TITLE			
EXISTING SITE LAYOUT/ DEMOLITION PLAN			
SHEET 9 OF 13			
WSP PROJECT NO.	PROJ-ORIG-VOL-LOC-TYPE	SHEET NO.	REVISION
6-QX141.00	6-QX141-WSP-01-C5-DR	C108	C

LEGEND	
EXISTING	
---	LEGAL BOUNDARY
---	KERB & CHANNEL
---	EDGE OF SEAL
---	FENCE
---	GUARDRAIL
---	TOP OF BANK
---	BOTTOM OF BANK
█	BRIDGE

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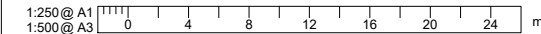
300 mm

200

100

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0 10 mm



REVISION	AMENDMENT	APPROVED	DATE
A	DETAILED DESIGN ISSUED FOR CLIENT REVIEW	R.G.	2021-08-02
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C	DETAILED DESIGN ISSUED FOR TENDER	R.G.	2021-10-22



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New Zealand

CIVIL

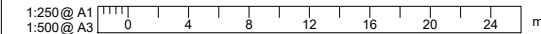
SCALES		ORIGINAL SIZE
1:250 @ A1		A1
1:500 @ A3		
DRAWN	DESIGNED	APPROVED
P. FIEREK	P. FIEREK	R. GILL
DRAWING VERIFIED	DESIGN VERIFIED	APPROVED DATE
S. FORBES	S. SHERLAW	2021-08-02

FOR TENDER

PROJECT			
QUEENSTOWN LAKES DISTRICT COUNCIL WAKATIPU ACTIVE TRAVEL WATN STAGE 2 ROUTES - ROUTE C5			
TITLE			
EXISTING SITE LAYOUT/ DEMOLITION PLAN SHEET 10 OF 13			
WSP PROJECT NO.	PROJ-ORIG-VOL-LOC-TYPE	SHEET NO.	REVISION
6-QX141.00	6-QX141-WSP-01-C5-DR	C109	C

LEGEND	
EXISTING	
	LEGAL BOUNDARY
	KERB & CHANNEL
	EDGE OF SEAL
	FENCE
	GUARDRAIL
	TOP OF BANK
	BOTTOM OF BANK
	BRIDGE

- NOTES**
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REVISION	AMENDMENT	APPROVED	DATE
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C	DETAILED DESIGN ISSUED FOR TENDER	R.G.	2021-10-22



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CIVIL

SCALES		ORIGINAL SIZE
1:250 @ A1		A1
1:500 @ A3		
DRAWN	DESIGNED	APPROVED
P. FIEREK	P. FIEREK	R. GILL
DRAWING VERIFIED	DESIGN VERIFIED	APPROVED DATE
S. FORBES	S. SHERLAW	2021-08-02

FOR TENDER

PROJECT			
QUEENSTOWN LAKES DISTRICT COUNCIL			
WAKATIPU ACTIVE TRAVEL			
WATN STAGE 2 ROUTES - ROUTE C5			
TITLE			
EXISTING SITE LAYOUT/ DEMOLITION PLAN			
SHEET 11 OF 13			
WSP PROJECT NO.	PROJ-ORIG-VOL-LOC-TYPE	SHEET NO.	REVISION
6-QX141.00	6-QX141-WSP-01-C5-DR	C110	C

LEGEND	
EXISTING	
---	LEGAL BOUNDARY
---	KERB & CHANNEL
---	EDGE OF SEAL
---	FENCE
---	GUARDRAIL
---	TOP OF BANK
---	BOTTOM OF BANK
█	BRIDGE

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PLAN
SCALE 1:500(A1), 1:1000(A3)

300 mm
200



PLAN
SCALE 1:500(A1), 1:1000(A3)

100
50
0 10 mm

1:500 @ A1
1:1000 @ A3

REVISION	AMENDMENT	APPROVED	DATE
A	DETAILED DESIGN ISSUED FOR CLIENT REVIEW	R.G.	2021-08-02
B	DETAILED DESIGN ISSUED FOR CLIENT APPROVAL	R.G.	2021-08-30
C	DETAILED DESIGN ISSUED FOR TENDER	R.G.	2021-10-22



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CIVIL

SCALES		ORIGINAL SIZE
1:500 @ A1		A1
DRAWN	DESIGNED	APPROVED
P. FIEREK	P. FIEREK	R. GILL
DRAWING VERIFIED	DESIGN VERIFIED	APPROVED DATE
S. FORBES	S. SHERLAW	2021-08-02

FOR TENDER

PROJECT			
QUEENSTOWN LAKES DISTRICT COUNCIL WAKATIPU ACTIVE TRAVEL WATN STAGE 2 ROUTES - ROUTE C5			
TITLE			
EXISTING SITE LAYOUT/ DEMOLITION PLAN SHEET 12 OF 13			
WSP PROJECT NO.	PROJ-ORIG-VOL-LOC-TYPE	SHEET NO.	REVISION
6-QX141.00	6-QX141-WSP-01-C5-DR	C111	C



DEMOLITION PLAN -
NOTHING ON THIS DRAWING

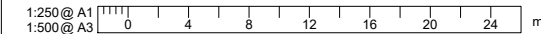


300 mm
200
100
0 10 mm

PLAN
SCALE 1:250(A1), 1:500(A3)

LEGEND	
EXISTING	
---	LEGAL BOUNDARY
—	KERB & CHANNEL
- - -	EDGE OF SEAL
—	FENCE
—	GUARDRAIL
- - -	TOP OF BANK
- - -	BOTTOM OF BANK
■ ■ ■ ■ ■	BRIDGE

- NOTES**
1. CARRY OUT DEMOLITION ONLY UNDER THE SUPERVISION OF A SUITABLY EXPERIENCED PERSON AND USING ONLY EXPERIENCED OPERATORS AND DRIVERS.
 2. PREVENT ACCESS BY UNAUTHORISED PERSONS. ILLUMINATE AND PROTECT ALL HOLES, UNSAFE BUILDINGS AND OTHER HAZARDS. LEAVE SITE SAFE AT THE CLOSE OF EACH WORK DAY.
 3. REINSTATE AND MAKE GOOD DEMOLITION DAMAGE TO ADJOINING PROPERTIES, EXISTING WORK, SERVICES OR PROPERTY.
 4. REMOVAL AND DEMOLITION OF POWER AND CHORUS SERVICES AND CABLES TO BE CARRIED OUT IN CONJUNCTION WITH ELECTRICAL CONTRACTOR.
 5. SURVEY MARKS: ALL LEGAL SURVEY MARKS AFFECTED BY WORKS SHALL BE PROTECTED.



REVISION	AMENDMENT	APPROVED	DATE
A	DETAILED DESIGN ISSUED FOR CLIENT REVIEW	R.G.	2021-08-02
B	DETAILED DESIGN ISSUED FOR CLIENT APPROVAL	R.G.	2021-08-30
C	DETAILED DESIGN ISSUED FOR TENDER	R.G.	2021-10-22



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New Zealand

CIVIL

SCALES		ORIGINAL SIZE
1:250 @ A1		A1
1:500 @ A3		
DRAWN	DESIGNED	APPROVED
P. FIEREK	P. FIEREK	R. GILL
DRAWING VERIFIED	DESIGN VERIFIED	APPROVED DATE
S. FORBES	S. SHERLAW	2021-08-02

FOR TENDER

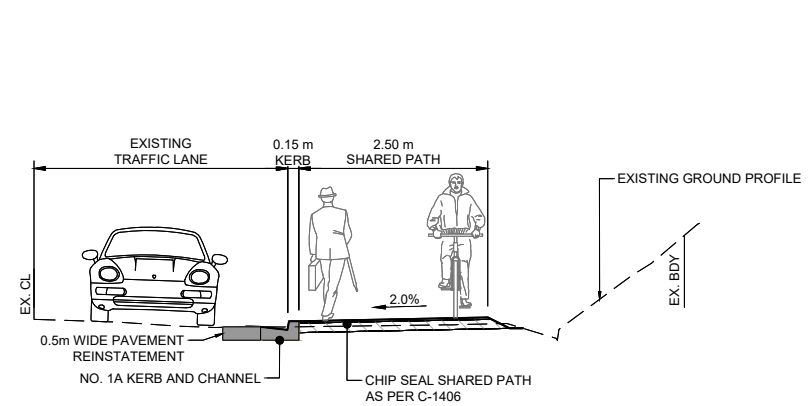
PROJECT			
QUEENSTOWN LAKES DISTRICT COUNCIL			
WAKATIPU ACTIVE TRAVEL			
WATN STAGE 2 ROUTES - ROUTE C5			
TITLE			
EXISTING SITE LAYOUT/ DEMOLITION PLAN			
SHEET 13 OF 13			
WSP PROJECT NO.	PROJ-ORIG-VOL-LOC-TYPE	SHEET NO.	REVISION
6-QX141.00	6-QX141-WSP-01-C5-DR	C112	C

LEGEND	
EXISTING	
---	LEGAL BOUNDARY
---	KERB & CHANNEL
---	EDGE OF SEAL
---	FENCE
---	GUARDRAIL
---	TOP OF BANK
---	BOTTOM OF BANK
---	BRIDGE
PROPOSED	
---	KERB AND CHANNEL
---	PRAM CROSSING
---	DISH CHANNEL
---	KERB STONE WITH CHANNEL
---	NIB KERB
---	SHARED PATH - AC
---	SHARED PATH - GRAVEL
---	SHARED PATH - CHIP SEAL
---	FOOTPATH - AC
---	BI-DIRECTIONAL CYCLE LANE - AC
---	VEHICLE CROSSING - CONCRETE
---	ROAD - CHIP SEAL
---	ROAD - AC
---	VERGE / UNSEALED SHOULDER
---	GRASSED BERM
---	LANDSCAPE AREA
---	CUT BATTER
---	FILL BATTER
---	BRIDGE / BOARDWALK
---	RETAINING WALL WITH BARRIER
---	WARNING TACTILES

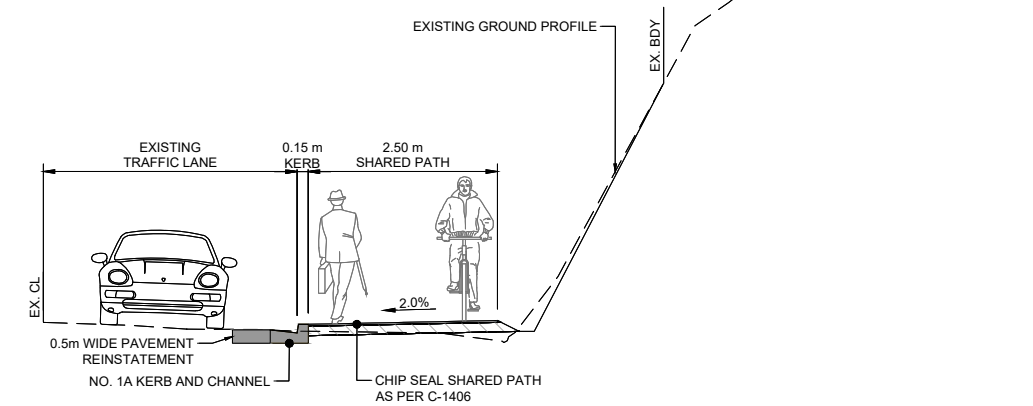
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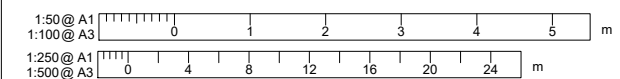
PLAN
SCALE 1:250(A1), 1:500(A3)



TYPICAL SECTION A
SCALE 1:50(A1), 1:100(A3)



TYPICAL SECTION B
SCALE 1:50(A1), 1:100(A3)



REVISION	AMENDMENT	APPROVED	DATE
A	ISSUED FOR SAFETY AUDIT	S.S.	2021-07-09
B	DETAILED DESIGN ISSUED FOR CLIENT REVIEW	R.G.	2021-08-02
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D	DETAILED DESIGN ISSUED FOR TENDER	R.G.	2021-10-22



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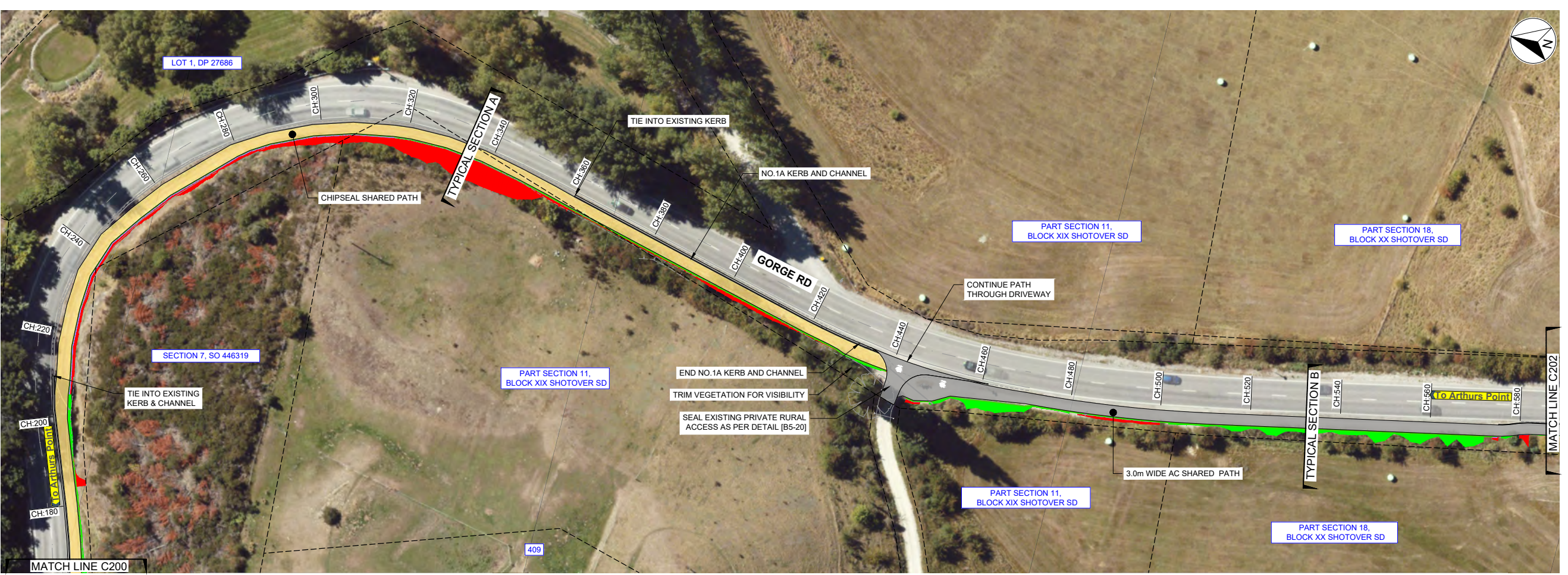
SCALES	DESIGNED	APPROVED	ORIGINAL SIZE
AS SHOWN	P. FIEREK	R. GILL	A1
DRAWN	P. FIEREK	R. GILL	
DRAWING VERIFIED	S. SHERLAW	APPROVED DATE	
S. FORBES	S. SHERLAW	2021-07-09	

FOR TENDER

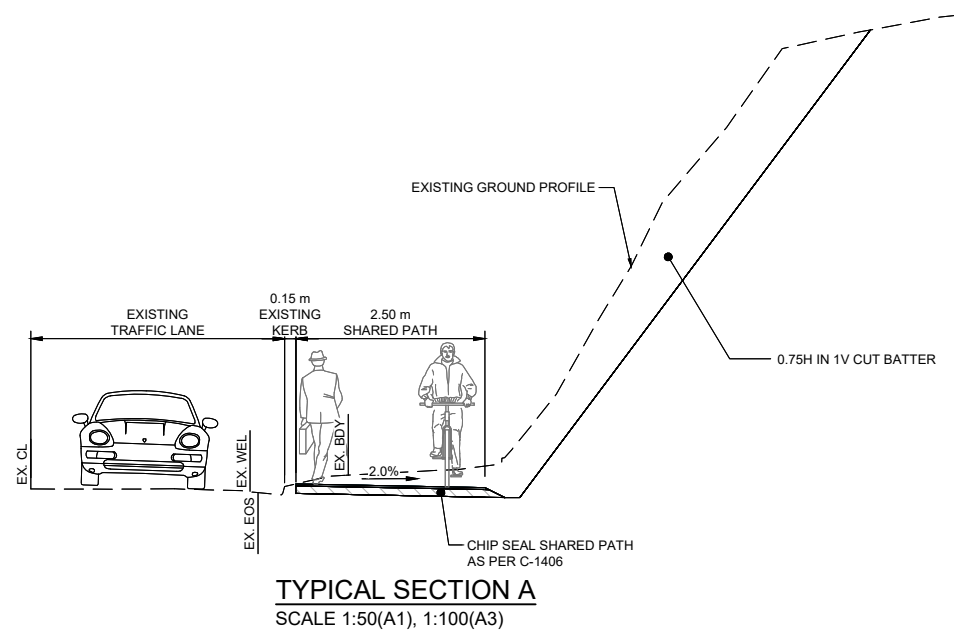
PROJECT			
QUEENSTOWN LAKES DISTRICT COUNCIL			
WAKATIPU ACTIVE TRAVEL			
WATN STAGE 2 ROUTES - ROUTE C5			
TITLE			
GENERAL LAYOUT			
SHEET 1 OF 23			
WSP PROJECT NO.	PROJ-ORIG-VOL-LOC-TYPE	SHEET NO.	REVISION
6-QX141.00	6-QX141-WSP-01-C5-DR	C200	D

LEGEND	
EXISTING	
	LEGAL BOUNDARY
	KERB & CHANNEL
	EDGE OF SEAL
	FENCE
	GUARDRAIL
	TOP OF BANK
	BOTTOM OF BANK
	BRIDGE
PROPOSED	
	KERB AND CHANNEL
	PRAM CROSSING
	DISH CHANNEL
	KERB STONE WITH CHANNEL
	NIB KERB
	SHARED PATH - AC
	SHARED PATH - GRAVEL
	SHARED PATH - CHIP SEAL
	FOOTPATH - AC
	BI-DIRECTIONAL CYCLE LANE - AC
	VEHICLE CROSSING - CONCRETE
	ROAD - CHIP SEAL
	ROAD - AC
	VERGE / UNSEALED SHOULDER
	GRASSED BERM
	LANDSCAPE AREA
	CUT BATTER
	FILL BATTER
	BRIDGE / BOARDWALK
	RETAINING WALL WITH BARRIER
	WARNING TACTILES

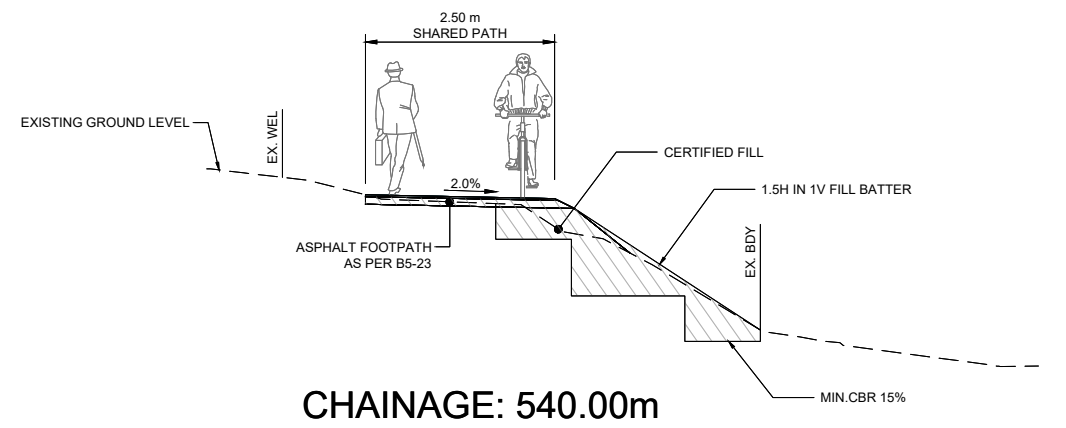
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PLAN
SCALE 1:500(A1), 1:1000(A3)

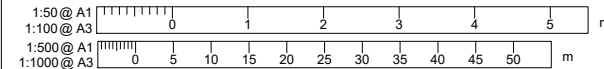


TYPICAL SECTION A
SCALE 1:50(A1), 1:100(A3)



CHAINAGE: 540.00m

TYPICAL SECTION B
SCALE 1:50(A1), 1:100(A3)



REVISION	AMENDMENT	APPROVED	DATE
A	ISSUED FOR SAFETY AUDIT	S.S.	2021-07-09
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D	DETAILED DESIGN ISSUED FOR TENDER	R.G.	2021-10-22



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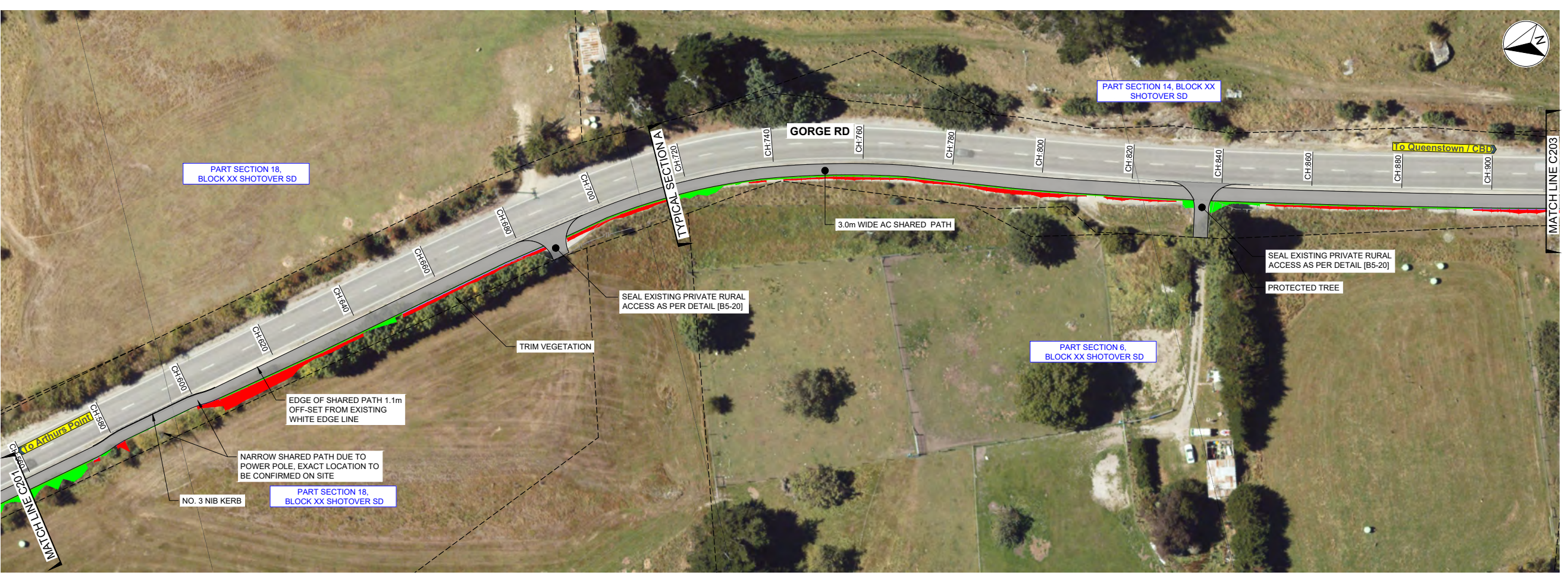
SCALES	DESIGNED	APPROVED	ORIGINAL SIZE
AS SHOWN	P.FIEREK	R.GILL	A1
DRAWN	P.FIEREK	R.GILL	
DRAWING VERIFIED	S.SHERLAW	APPROVED DATE	
S.FORBES	S.SHERLAW	2021-07-09	

FOR TENDER

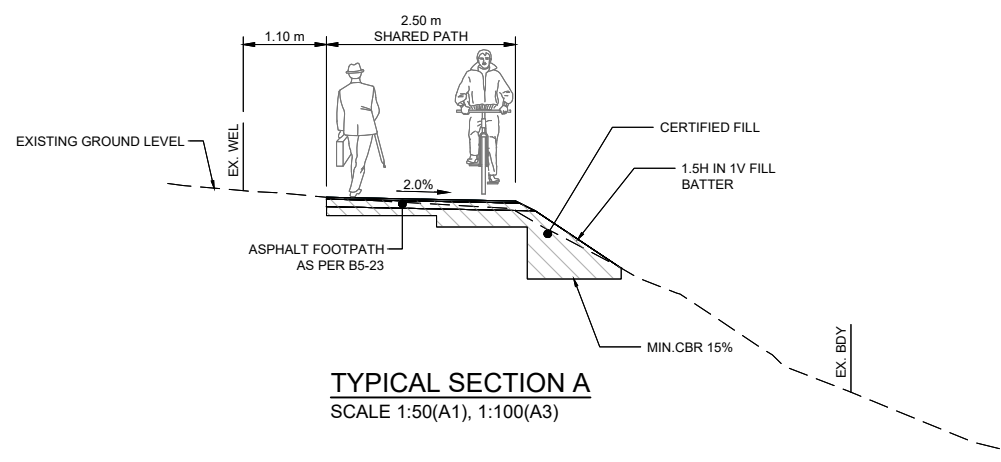
PROJECT			
QUEENSTOWN LAKES DISTRICT COUNCIL WAKATIPU ACTIVE TRAVEL WATN STAGE 2 ROUTES - ROUTE C5			
TITLE			
GENERAL LAYOUT SHEET 2 OF 23			
WSP PROJECT NO.	PROJ-ORIG-VOL-LOC-TYPE	SHEET NO.	REVISION
6-QX141.00	6-QX141-WSP-01-C5-DR	C201	D

LEGEND	
EXISTING	
	LEGAL BOUNDARY
	KERB & CHANNEL
	EDGE OF SEAL
	FENCE
	GUARDRAIL
	TOP OF BANK
	BOTTOM OF BANK
	BRIDGE
PROPOSED	
	KERB AND CHANNEL
	PRAM CROSSING
	DISH CHANNEL
	KERB STONE WITH CHANNEL
	NIB KERB
	SHARED PATH - AC
	SHARED PATH - GRAVEL
	SHARED PATH - CHIP SEAL
	FOOTPATH - AC
	BI-DIRECTIONAL CYCLE LANE - AC
	VEHICLE CROSSING - CONCRETE
	ROAD - CHIP SEAL
	ROAD - AC
	VERGE / UNSEALED SHOULDER
	GRASSED BERM
	LANDSCAPE AREA
	CUT BATTER
	FILL BATTER
	BRIDGE / BOARDWALK
	RETAINING WALL WITH BARRIER
	WARNING TACTILES

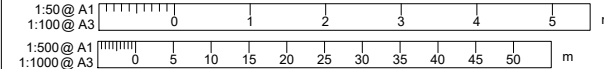
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PLAN
SCALE 1:500(A1), 1:1000(A3)



TYPICAL SECTION A
SCALE 1:50(A1), 1:100(A3)



REVISION	AMENDMENT	APPROVED	DATE
A	ISSUED FOR SAFETY AUDIT	S.S.	2021-07-09
B	DETAILED DESIGN ISSUED FOR CLIENT REVIEW	R.G.	2021-08-02
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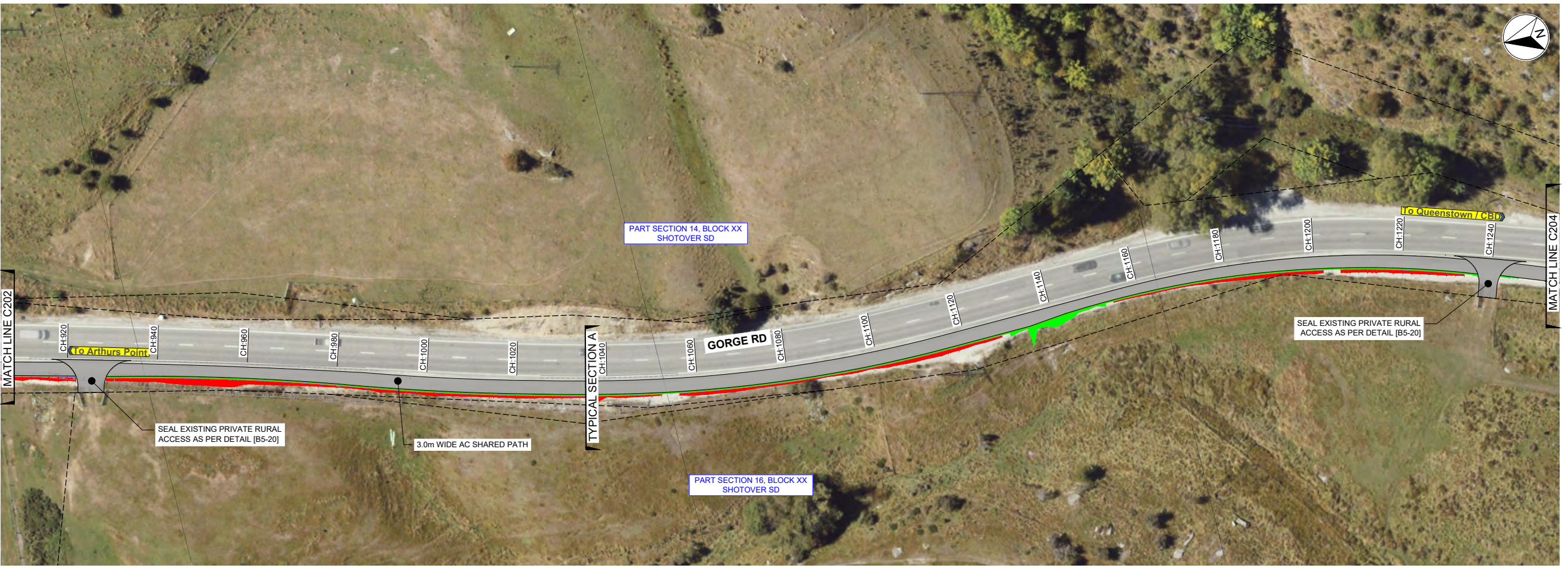
SCALES		ORIGINAL SIZE
1:500 @ A1		A1
DRAWN	DESIGNED	APPROVED
P. FIEREK	P. FIEREK	R. GILL
DRAWING VERIFIED	DESIGN VERIFIED	APPROVED DATE
S. FORBES	S. SHERLAW	2021-07-09

FOR TENDER

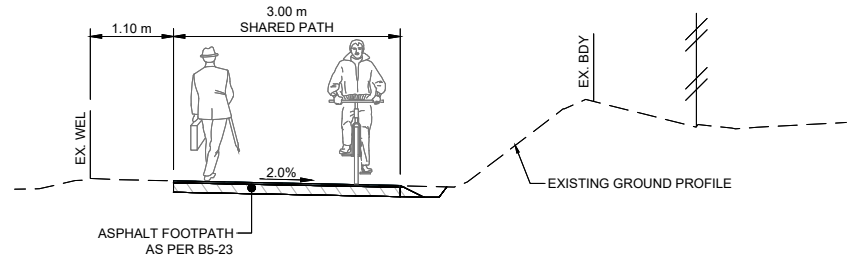
PROJECT			
QUEENSTOWN LAKES DISTRICT COUNCIL WAKATIPU ACTIVE TRAVEL WATN STAGE 2 ROUTES - ROUTE C5			
TITLE			
GENERAL LAYOUT SHEET 3 OF 23			
WSP PROJECT NO.	PROJ-ORIG-VOL-LOC-TYPE	SHEET NO.	REVISION
6-XQ141.00	6-XQ141-WSP-01-C5-DR	C202	D

LEGEND	
EXISTING	
	LEGAL BOUNDARY
	KERB & CHANNEL
	EDGE OF SEAL
	FENCE
	GUARDRAIL
	TOP OF BANK
	BOTTOM OF BANK
	BRIDGE
PROPOSED	
	KERB AND CHANNEL
	PRAM CROSSING
	DISH CHANNEL
	KERB STONE WITH CHANNEL
	NIB KERB
	SHARED PATH - AC
	SHARED PATH - GRAVEL
	SHARED PATH - CHIP SEAL
	FOOTPATH - AC
	BI-DIRECTIONAL CYCLE LANE - AC
	VEHICLE CROSSING - CONCRETE
	ROAD - CHIP SEAL
	ROAD - AC
	VERGE / UNSEALED SHOULDER
	GRASSED BERM
	LANDSCAPE AREA
	CUT BATTER
	FILL BATTER
	BRIDGE / BOARDWALK
	RETAINING WALL WITH BARRIER
	WARNING TACTILES

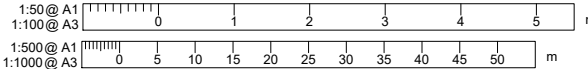
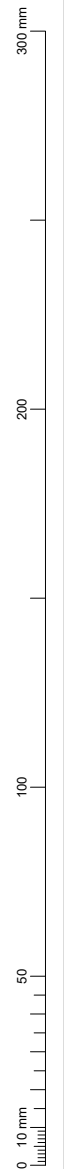
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PLAN
SCALE 1:500(A1), 1:1000(A3)



TYPICAL SECTION A
SCALE 1:50(A1), 1:100(A3)



REVISION	AMENDMENT	APPROVED	DATE
A	ISSUED FOR SAFETY AUDIT	S.S.	2021-07-09
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SCALES		ORIGINAL SIZE
1:500 @ A1		A1
1:100 @ A3		

FOR TENDER

PROJECT		TITLE	
QUEENSTOWN LAKES DISTRICT COUNCIL WAKATIPU ACTIVE TRAVEL WATN STAGE 2 ROUTES - ROUTE C5		GENERAL LAYOUT SHEET 4 OF 23	
WSP PROJECT NO. 6-XQ141.00	PROJ-ORIG-VOL-LOC-TYPE 6-XQ141-WSP-01-C5-DR	SHEET NO. C203	REVISION D

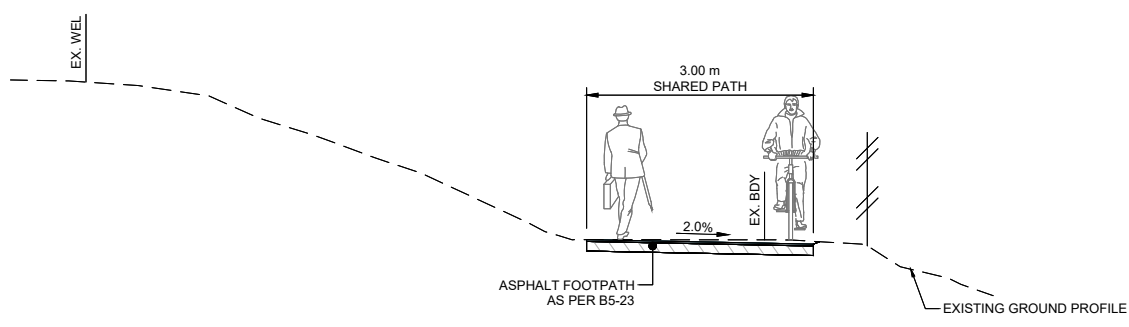
LEGEND	
EXISTING	
	LEGAL BOUNDARY
	KERB & CHANNEL
	EDGE OF SEAL
	FENCE
	GUARDRAIL
	TOP OF BANK
	BOTTOM OF BANK
	BRIDGE
PROPOSED	
	KERB AND CHANNEL
	PRAM CROSSING
	DISH CHANNEL
	KERB STONE WITH CHANNEL
	NIB KERB
	SHARED PATH - AC
	SHARED PATH - GRAVEL
	SHARED PATH - CHIP SEAL
	FOOTPATH - AC
	BI-DIRECTIONAL CYCLE LANE - AC
	VEHICLE CROSSING - CONCRETE
	ROAD - CHIP SEAL
	ROAD - AC
	VERGE / UNSEALED SHOULDER
	GRASSED BERM
	LANDSCAPE AREA
	CUT BATTER
	FILL BATTER
	BRIDGE / BOARDWALK
	RETAINING WALL WITH BARRIER
	WARNING TACTILES

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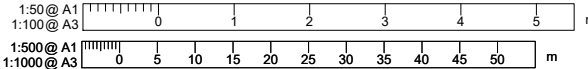
300 mm
200
100
0 10 mm



PLAN
SCALE 1:500(A1), 1:1000(A3)



TYPICAL SECTION A
SCALE 1:50(A1), 1:100(A3)



REVISION	AMENDMENT	APPROVED	DATE
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SCALES		ORIGINAL SIZE
1:500 @ A1		A1
DRAWN	DESIGNED	APPROVED
P. FIEREK	P. FIEREK	R. GILL
DRAWING VERIFIED	DESIGN VERIFIED	APPROVED DATE
S. FORBES	S. SHERLAW	2021-07-09

FOR TENDER

PROJECT			
QUEENSTOWN LAKES DISTRICT COUNCIL			
WAKATIPU ACTIVE TRAVEL			
WATN STAGE 2 ROUTES - ROUTE C5			
TITLE			
GENERAL LAYOUT			
SHEET 5 OF 23			
WSP PROJECT NO.	PROJ-ORIG-VOL-LOC-TYPE	SHEET NO.	REVISION
6-QX141.00	6-QX141-WSP-01-C5-DR	C204	D

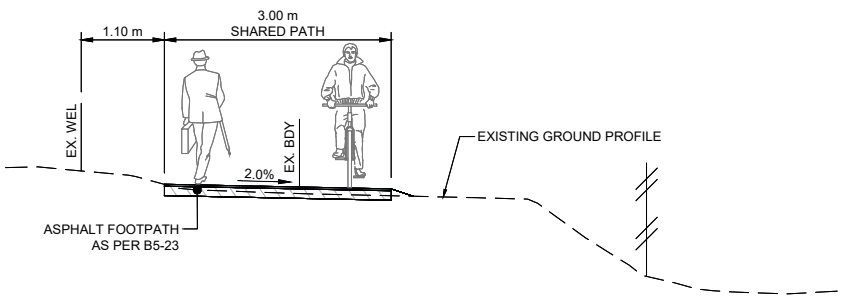
LEGEND	
EXISTING	
	LEGAL BOUNDARY
	KERB & CHANNEL
	EDGE OF SEAL
	FENCE
	GUARDRAIL
	TOP OF BANK
	BOTTOM OF BANK
	BRIDGE
PROPOSED	
	KERB AND CHANNEL
	PRAM CROSSING
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	KERB STONE WITH CHANNEL
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	SHARED PATH - GRAVEL
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	RETAINING WALL WITH BARRIER
	WARNING TACTILES

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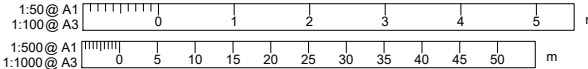
300 mm
200
100
50
0 10 mm



PLAN
SCALE 1:500(A1), 1:1000(A3)



TYPICAL SECTION A
SCALE 1:50(A1), 1:100(A3)



REVISION	AMENDMENT	APPROVED	DATE
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C	DETAILED DESIGN ISSUED FOR CLIENT APPROVAL	R.G.	2021-08-30
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SCALES		ORIGINAL SIZE
1:500 @ A1		A1
DRAWN	DESIGNED	APPROVED
P. FIEREK	P. FIEREK	R. GILL
DRAWING VERIFIED	DESIGN VERIFIED	APPROVED DATE
S. FORBES	S. SHERLAW	2021-07-09

FOR TENDER

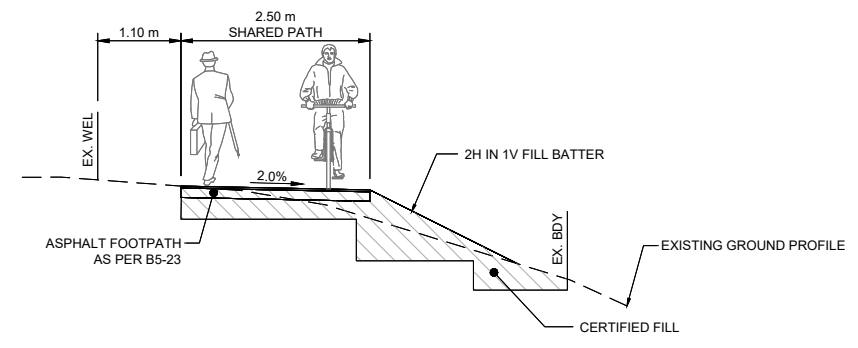
PROJECT			
QUEENSTOWN LAKES DISTRICT COUNCIL			
WAKATIPU ACTIVE TRAVEL			
WATN STAGE 2 ROUTES - ROUTE C5			
TITLE			
GENERAL LAYOUT			
SHEET 6 OF 23			
WSP PROJECT NO.	PROJ-ORIG-VOL-LOC-TYPE	SHEET NO.	REVISION
6-QX141.00	6-QX141-WSP-01-C5-DR	C205	D

LEGEND	
EXISTING	
	LEGAL BOUNDARY
	KERB & CHANNEL
	EDGE OF SEAL
	FENCE
	GUARDRAIL
	TOP OF BANK
	BOTTOM OF BANK
	BRIDGE
PROPOSED	
	KERB AND CHANNEL
	PRAM CROSSING
	DISH CHANNEL
	KERB STONE WITH CHANNEL
	NIB KERB
	SHARED PATH - AC
	SHARED PATH - GRAVEL
	SHARED PATH - CHIP SEAL
	FOOTPATH - AC
	BI-DIRECTIONAL CYCLE LANE - AC
	VEHICLE CROSSING - CONCRETE
	ROAD - CHIP SEAL
	ROAD - AC
	VERGE / UNSEALED SHOULDER
	GRASSED BERM
	LANDSCAPE AREA
	CUT BATTER
	FILL BATTER
	BRIDGE / BOARDWALK
	RETAINING WALL WITH BARRIER
	WARNING TACTILES

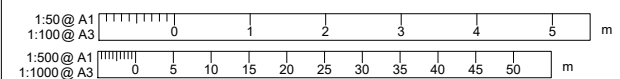
1. PLANS TO BE READ IN CONJUNCTION WITH ALL OTHER DRAWINGS AND SPECIFICATIONS.
2. CONTRACTOR SHALL CONFIRM DIMENSION AND SET-OUT PRIOR TO ORDERING MATERIAL OR CONSTRUCTION.
3. DIMENSIONS SHALL NOT BE OBTAINED BY SCALING FROM DRAWINGS.
4. ALL PAVEMENT MARKINGS AND SIGNAGE SHALL BE CONSTRUCTED AS PER MOTSAM AND TRAFFIC CONTROL DEVICES MANUAL.
5. ALL MATERIALS AND WORKMANSHIP SHALL BE IN ACCORDANCE WITH THE CURRENT CODES OF PRACTICE EXCEPT WHERE VARIED BY THE SPECIFICATION AND/OR THE DRAWINGS.
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PLAN
SCALE 1:500(A1), 1:1000(A3)



TYPICAL SECTION A
SCALE 1:50(A1), 1:100(A3)



REVISION	AMENDMENT	APPROVED	DATE
A	ISSUED FOR SAFETY AUDIT	S.S.	2021-07-09
B	DETAILED DESIGN ISSUED FOR CLIENT REVIEW	R.G.	2021-08-02
C	DETAILED DESIGN ISSUED FOR CLIENT APPROVAL	R.G.	2021-08-30
D	DETAILED DESIGN ISSUED FOR TENDER	R.G.	2021-10-22



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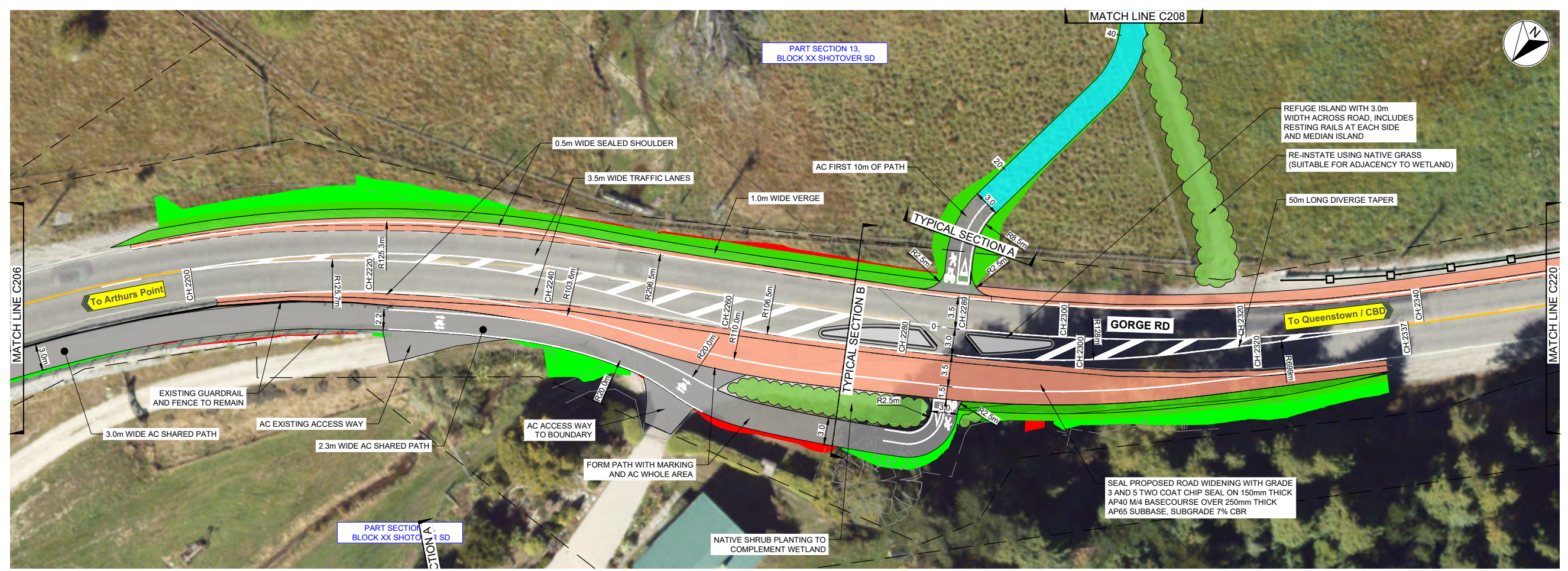
SCALES		ORIGINAL SIZE
1:500 @ A1		A1
1:500 @ A1	1:1000 @ A3	
DRAWN	DESIGNED	APPROVED
P. FIEREK	P. FIEREK	R. GILL
DRAWING VERIFIED	DESIGN VERIFIED	APPROVED DATE
S. FORBES	S. SHERLAW	2021-07-09

FOR TENDER

PROJECT			
QUEENSTOWN LAKES DISTRICT COUNCIL WAKATIPU ACTIVE TRAVEL WATN STAGE 2 ROUTES - ROUTE C5			
TITLE GENERAL LAYOUT SHEET 7 OF 23			
WSP PROJECT NO.	PROJ-ORIG-VOL-LOC-TYPE	SHEET NO.	REVISION
6-XQ141.00	6-XQ141-WSP-01-C5-DR	C206	D

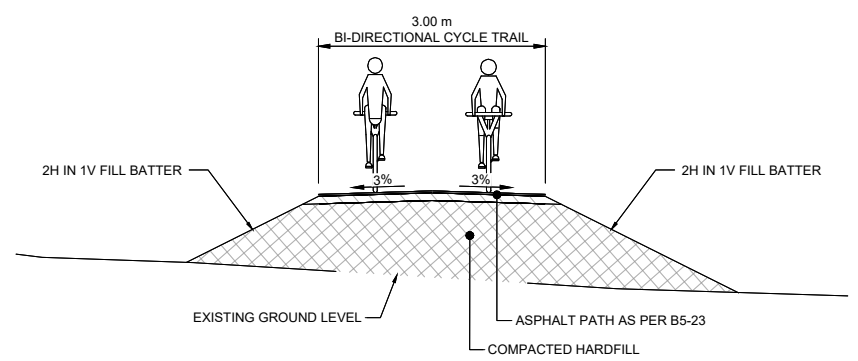
LEGEND	
EXISTING	
	LEGAL BOUNDARY
	KERB & CHANNEL
	EDGE OF SEAL
	FENCE
	GUARDRAIL
	TOP OF BANK
	BOTTOM OF BANK
	BRIDGE
PROPOSED	
	KERB AND CHANNEL
	PRAM CROSSING
	DISH CHANNEL
	KERB STONE WITH CHANNEL
	NIB KERB
	SHARED PATH - AC
	SHARED PATH - GRAVEL
	SHARED PATH - CHIP SEAL
	FOOTPATH - AC
	BI-DIRECTIONAL CYCLE LANE - AC
	VEHICLE CROSSING - CONCRETE
	ROAD - CHIP SEAL
	ROAD - AC
	VERGE / UNSEALED SHOULDER
	GRASSED BERM
	LANDSCAPE AREA
	CUT BATTER
	FILL BATTER
	BRIDGE / BOARDWALK
	RETAINING WALL WITH BARRIER
	WARNING TACTILES

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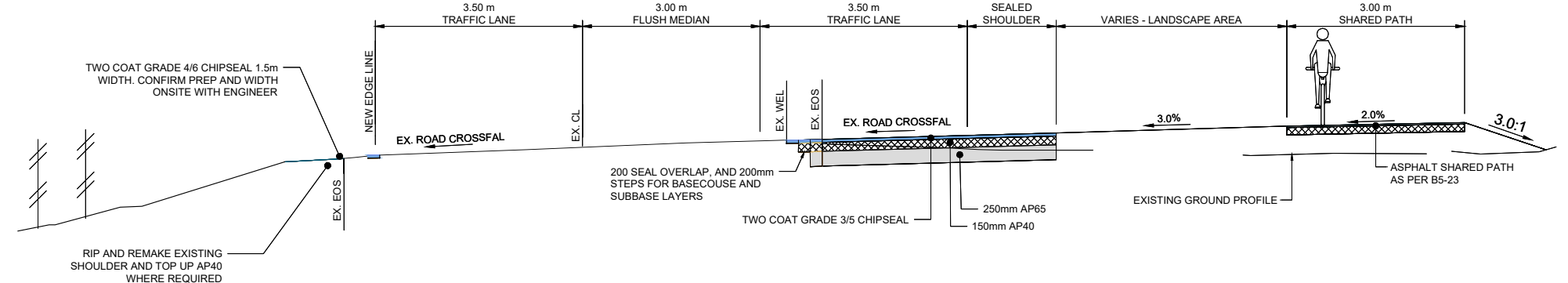


PLAN
SCALE 1:250(A1), 1:500(A3)

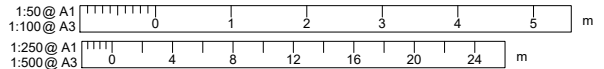
300 mm
200
100
50
0 10 mm



TYPICAL CROSS SECTION A
MATAKAURI TRAIL RAMP - FIRST 10m
SCALE 1:50(A1), 1:100(A3)



TYPICAL CROSS SECTION B
GORGE ROAD
SCALE 1:50(A1), 1:100(A3)



REVISION	AMENDMENT	APPROVED	DATE
A	ISSUED FOR SAFETY AUDIT	S.S	2021-07-09
B	DETAILED DESIGN ISSUED FOR CLIENT REVIEW	R.G	2021-08-02
C	DETAILED DESIGN ISSUED FOR CLIENT APPROVAL	R.G.	2021-08-30
D	DETAILED DESIGN ISSUED FOR TENDER	R.G.	2021-10-22



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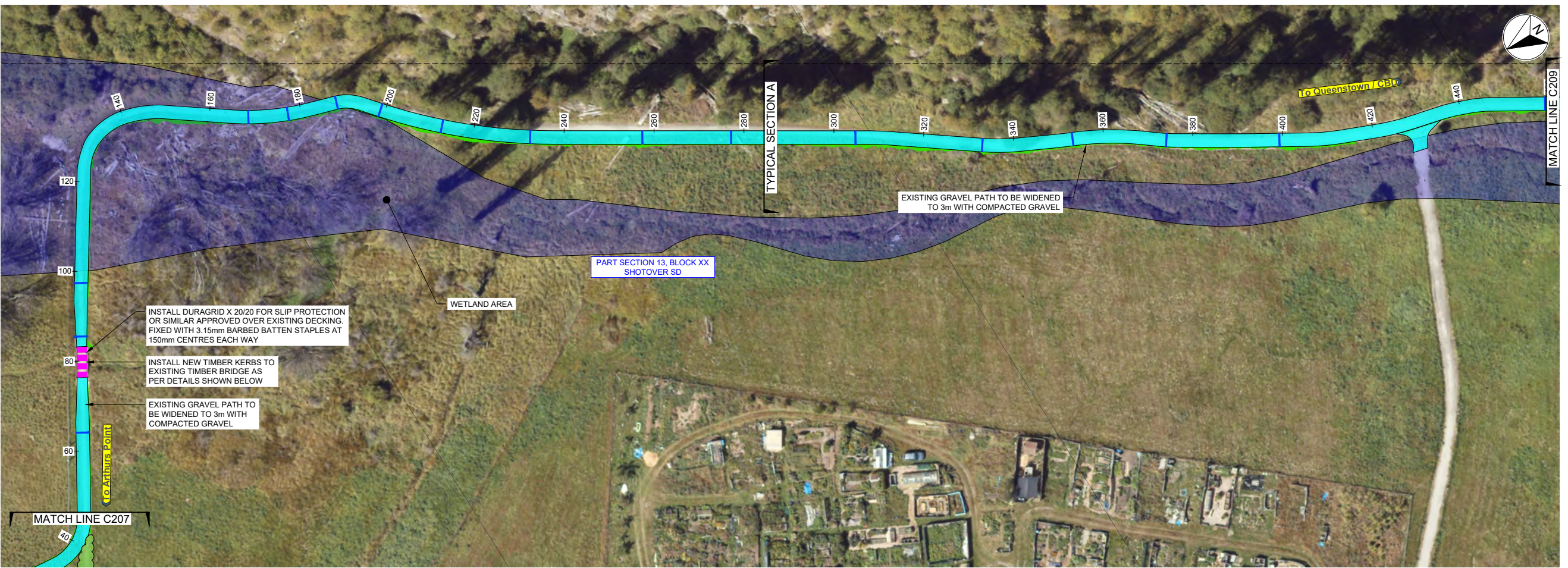
SCALES	DESIGNED	APPROVED
AS SHOWN	P.FIEREK	R.GILL
DRAWN	P.FIEREK	R.GILL
DRAWING VERIFIED	S.SHERLAW	APPROVED DATE
S.FORBES	S.SHERLAW	2021-07-09

FOR TENDER

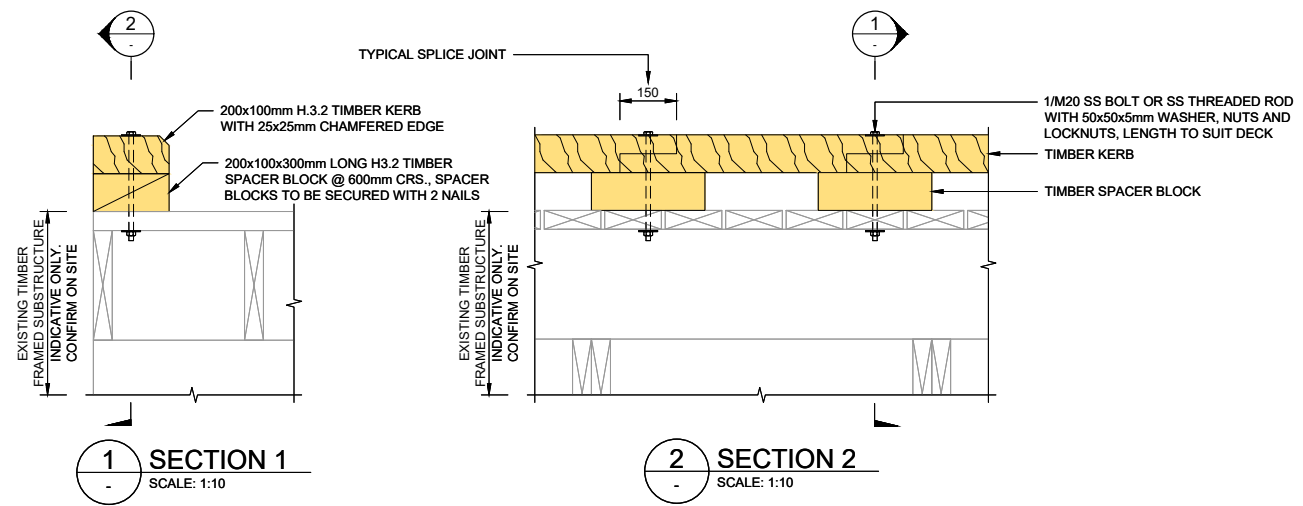
PROJECT		SHEET NO.	REVISION
QUEENSTOWN LAKES DISTRICT COUNCIL WAKATIPU ACTIVE TRAVEL WATN STAGE 2 ROUTES - ROUTE C5		C207	D
TITLE			
GENERAL LAYOUT SHEET 8 OF 23			
WSP PROJECT NO.	PROJ-ORIG-VOL-LOC-TYPE		
6-QX141.00	6-QX141-WSP-01-C5-DR		

LEGEND	
EXISTING	
---	LEGAL BOUNDARY
---	KERB & CHANNEL
---	EDGE OF SEAL
---	FENCE
---	GUARDRAIL
---	TOP OF BANK
---	BOTTOM OF BANK
---	BRIDGE
PROPOSED	
---	KERB AND CHANNEL
---	PRAM CROSSING
---	DISH CHANNEL
---	KERB STONE WITH CHANNEL
---	NIB KERB
---	SHARED PATH - AC
---	SHARED PATH - GRAVEL
---	SHARED PATH - CHIP SEAL
---	FOOTPATH - AC
---	BI-DIRECTIONAL CYCLE LANE - AC
---	VEHICLE CROSSING - CONCRETE
---	ROAD - CHIP SEAL
---	ROAD - AC
---	VERGE / UNSEALED SHOULDER
---	GRASSED BERM
---	LANDSCAPE AREA
---	CUT BATTER
---	FILL BATTER
---	BRIDGE / BOARDWALK
---	RETAINING WALL WITH BARRIER
---	WARNING TACTILES

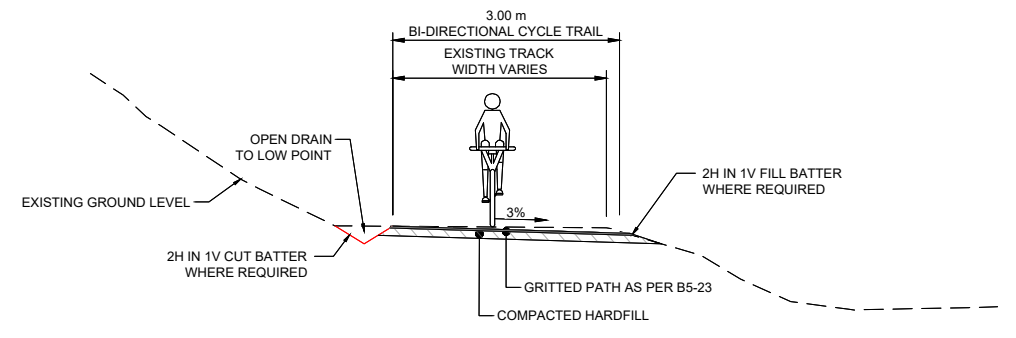
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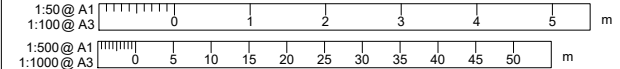
PLAN
SCALE 1:500(A1), 1:1000(A3)



MATAKAURI PARK BRIDGE
TYPICAL TIMBER KERB DETAIL
SCALE: 1:10



TYPICAL CROSS SECTION A
MATAKAURI TRAIL
SCALE 1:50(A1), 1:100(A3)



REVISION	AMENDMENT	APPROVED	DATE
A	ISSUED FOR SAFETY AUDIT	S.S.	2021-07-09
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C	DETAILED DESIGN ISSUED FOR CLIENT APPROVAL	R.G.	2021-08-30
D	DETAILED DESIGN ISSUED FOR TENDER	R.G.	2021-10-22



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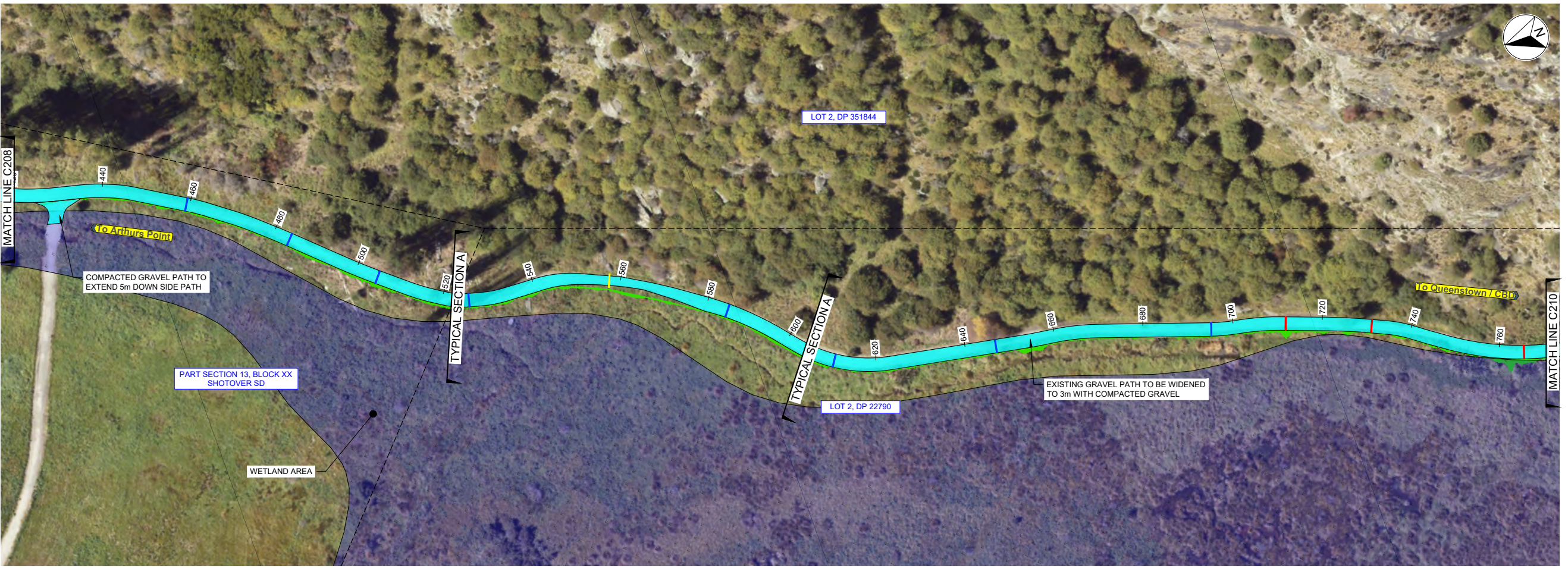
SCALES	ORIGINAL SIZE	
1:500 @ A1	A1	
1:1000 @ A3	A3	
DRAWN	DESIGNED	APPROVED
P. FIEREK	P. FIEREK	R. GILL
DRAWING VERIFIED	DESIGN VERIFIED	APPROVED DATE
S. FORBES	S. SHERLAW	2021-07-09

FOR TENDER

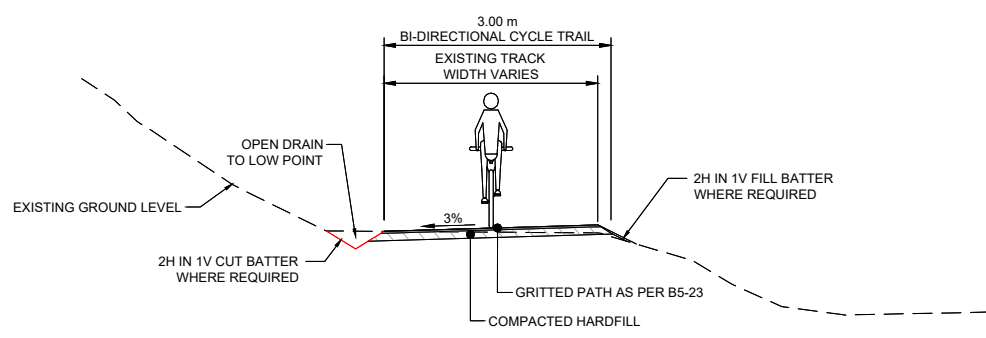
PROJECT			
QUEENSTOWN LAKES DISTRICT COUNCIL			
WAKATIPU ACTIVE TRAVEL			
WATN STAGE 2 ROUTES - ROUTE C5			
TITLE			
GENERAL LAYOUT			
SHEET 9 OF 23			
WSP PROJECT NO.	PROJ-ORIG-VOL-LOC-TYPE	SHEET NO.	REVISION
6-XQ141.00	6-XQ141-WSP-01-C5-DR	C208	D

LEGEND	
EXISTING	
	LEGAL BOUNDARY
	KERB & CHANNEL
	EDGE OF SEAL
	FENCE
	GUARDRAIL
	TOP OF BANK
	BOTTOM OF BANK
	BRIDGE
PROPOSED	
	KERB AND CHANNEL
	PRAM CROSSING
	DISH CHANNEL
	KERB STONE WITH CHANNEL
	NIB KERB
	SHARED PATH - AC
	SHARED PATH - GRAVEL
	SHARED PATH - CHIP SEAL
	FOOTPATH - AC
	BI-DIRECTIONAL CYCLE LANE - AC
	VEHICLE CROSSING - CONCRETE
	ROAD - CHIP SEAL
	ROAD - AC
	VERGE / UNSEALED SHOULDER
	GRASSED BERM
	LANDSCAPE AREA
	CUT BATTER
	FILL BATTER
	BRIDGE / BOARDWALK
	RETAINING WALL WITH BARRIER
	WARNING TACTILES

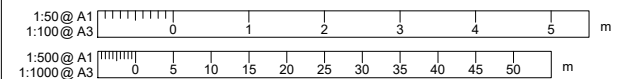
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PLAN
SCALE 1:500(A1), 1:1000(A3)



TYPICAL CROSS SECTION A
MATAKAURI TRAIL
SCALE 1:50(A1), 1:100(A3)



REVISION	AMENDMENT	APPROVED	DATE
A	ISSUED FOR SAFETY AUDIT	S.S	2021-07-09
B	DETAILED DESIGN ISSUED FOR CLIENT REVIEW	R.G	2021-08-02
C	DETAILED DESIGN ISSUED FOR CLIENT APPROVAL	R.G.	2021-08-30
D	DETAILED DESIGN ISSUED FOR TENDER	R.G.	2021-10-22



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SCALES		ORIGINAL SIZE
AS SHOWN		A1
DRAWN	DESIGNED	APPROVED
P. FIEREK	P. FIEREK	R. GILL
DRAWING VERIFIED	DESIGN VERIFIED	APPROVED DATE
S. FORBES	S. SHERLAW	2021-07-09

FOR TENDER

PROJECT			
QUEENSTOWN LAKES DISTRICT COUNCIL			
WAKATIPU ACTIVE TRAVEL			
WATN STAGE 2 ROUTES - ROUTE C5			
TITLE			
GENERAL LAYOUT			
SHEET 10 OF 23			
WSP PROJECT NO.	PROJ-ORIG-VOL-LOC-TYPE	SHEET NO.	REVISION
6-QX141.00	6-QX141-WSP-01-C5-DR	C209	D

LEGEND

EXISTING

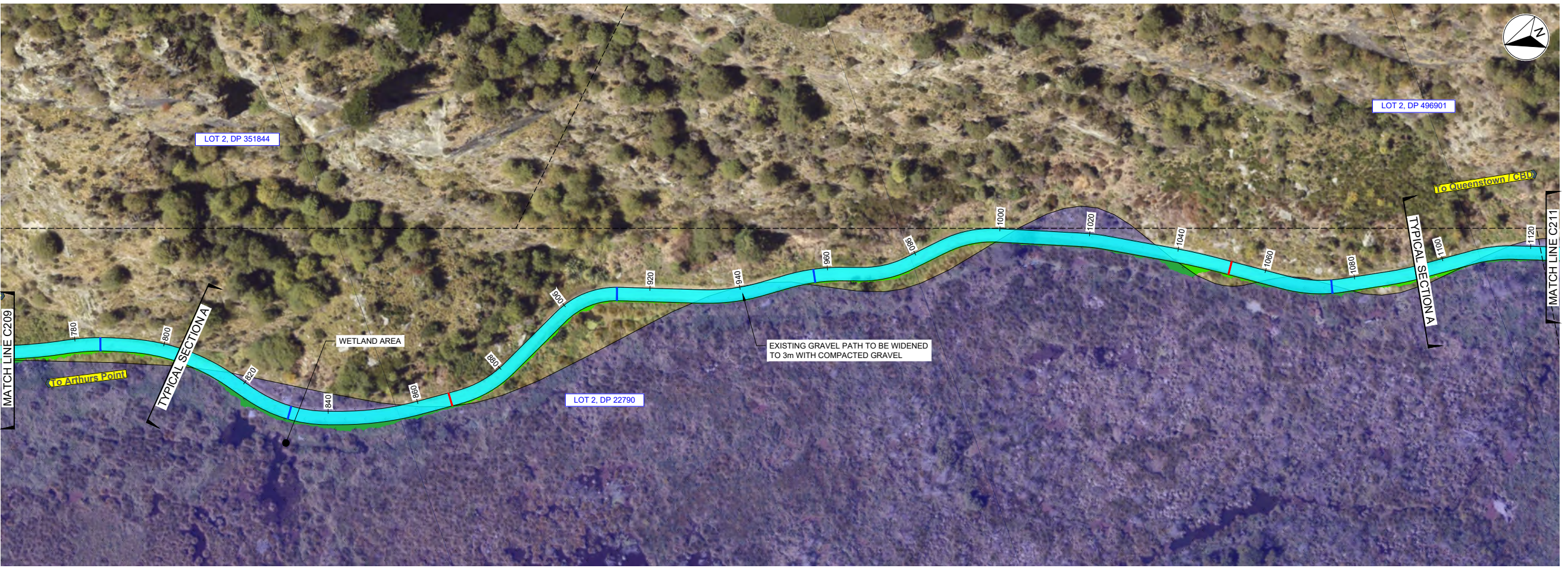
- LEGAL BOUNDARY
- KERB & CHANNEL
- EDGE OF SEAL
- FENCE
- GUARDRAIL
- TOP OF BANK
- BOTTOM OF BANK
- BRIDGE

PROPOSED

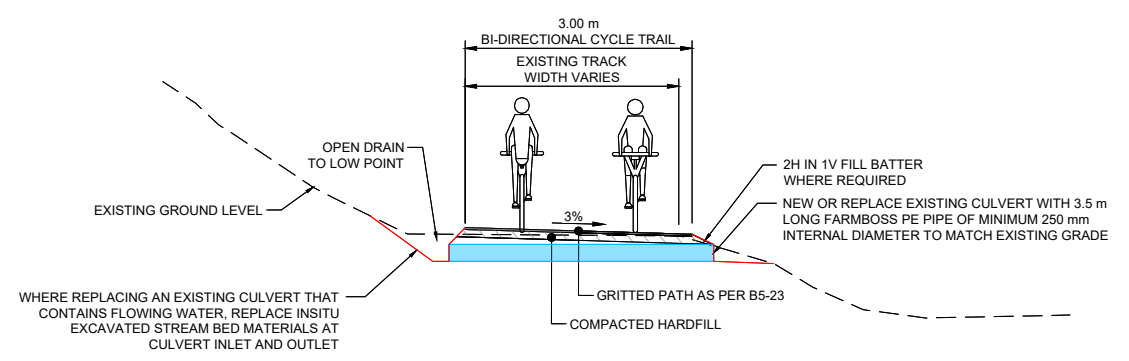
- KERB AND CHANNEL
- PRAM CROSSING
- DISH CHANNEL
- KERB STONE WITH CHANNEL
- NIB KERB
- SHARED PATH - AC
- SHARED PATH - GRAVEL
- SHARED PATH - CHIP SEAL
- FOOTPATH - AC
- BI-DIRECTIONAL CYCLE LANE - AC
- VEHICLE CROSSING - CONCRETE
- ROAD - CHIP SEAL
- ROAD - AC
- VERGE / UNSEALED SHOULDER
- GRASSED BERM
- LANDSCAPE AREA
- CUT BATTER
- FILL BATTER
- BRIDGE / BOARDWALK
- RETAINING WALL WITH BARRIER
- WARNING TACTILES

- PLANS TO BE READ IN CONJUNCTION WITH ALL OTHER DRAWINGS AND SPECIFICATIONS.
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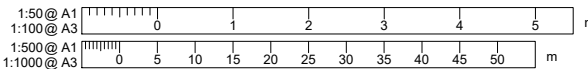
300 mm
200
100
50
0 10 mm



PLAN
SCALE 1:500(A1), 1:1000(A3)



TYPICAL CROSS SECTION A
MATAKAURI TRAIL WITH STORMWATER CULVERT
SCALE 1:50(A1), 1:100(A3)



REVISION	AMENDMENT	APPROVED	DATE
A	ISSUED FOR SAFETY AUDIT	S.S	2021-07-09
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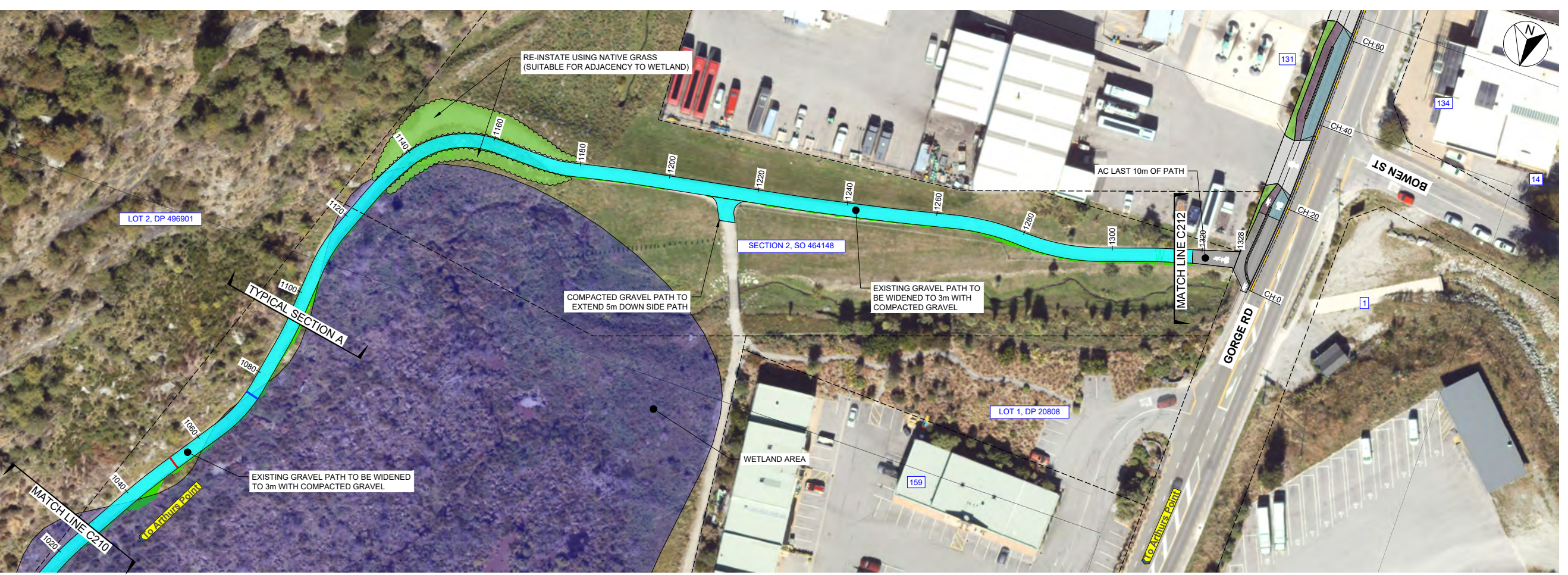
SCALES	DESIGNED	APPROVED	ORIGINAL SIZE
AS SHOWN	P.FIEREK	R.GILL	A1
DRAWN	DESIGN VERIFIED	APPROVED DATE	
P.FORBES	S.SHERLAW	2021-07-09	

FOR TENDER

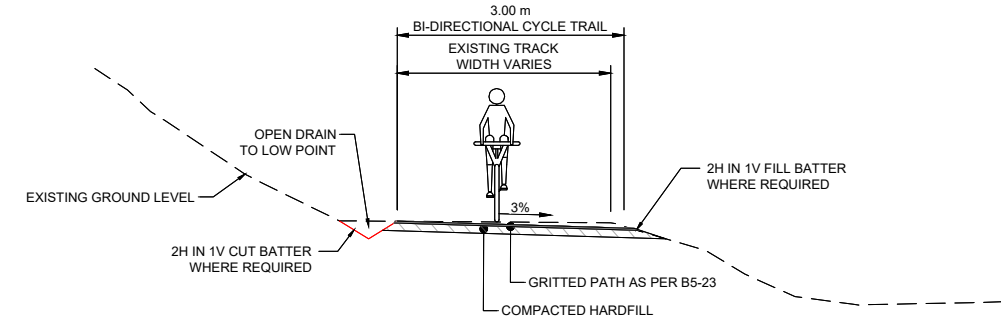
PROJECT			
QUEENSTOWN LAKES DISTRICT COUNCIL WAKATIPU ACTIVE TRAVEL WATN STAGE 2 ROUTES - ROUTE C5			
TITLE			
GENERAL LAYOUT SHEET 11 OF 23			
WSP PROJECT NO.	PROJ-ORIG-VOL-LOC-TYPE	SHEET NO.	REVISION
6-QX141.00	6-QX141-WSP-01-C5-DR	C210	D

LEGEND	
EXISTING	
	LEGAL BOUNDARY
	KERB & CHANNEL
	EDGE OF SEAL
	FENCE
	GUARDRAIL
	TOP OF BANK
	BOTTOM OF BANK
	BRIDGE
PROPOSED	
	KERB AND CHANNEL
	PRAM CROSSING
	DISH CHANNEL
	KERB STONE WITH CHANNEL
	NIB KERB
	SHARED PATH - AC
	SHARED PATH - GRAVEL
	SHARED PATH - CHIP SEAL
	FOOTPATH - AC
	BI-DIRECTIONAL CYCLE LANE - AC
	VEHICLE CROSSING - CONCRETE
	ROAD - CHIP SEAL
	ROAD - AC
	VERGE / UNSEALED SHOULDER
	GRASSED BERM
	LANDSCAPE AREA
	CUT BATTER
	FILL BATTER
	BRIDGE / BOARDWALK
	RETAINING WALL WITH BARRIER
	WARNING TACTILES

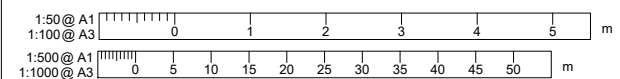
- PLANS TO BE READ IN CONJUNCTION WITH ALL OTHER DRAWINGS AND SPECIFICATIONS.
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PLAN
SCALE 1:500(A1), 1:1000(A3)



TYPICAL CROSS SECTION A
MATAKAURI TRAIL
SCALE 1:50(A1), 1:100(A3)



REVISION	AMENDMENT	APPROVED	DATE
A	ISSUED FOR SAFETY AUDIT	S.S.	2021-07-09
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C	DETAILED DESIGN ISSUED FOR CLIENT APPROVAL	R.G.	2021-08-30
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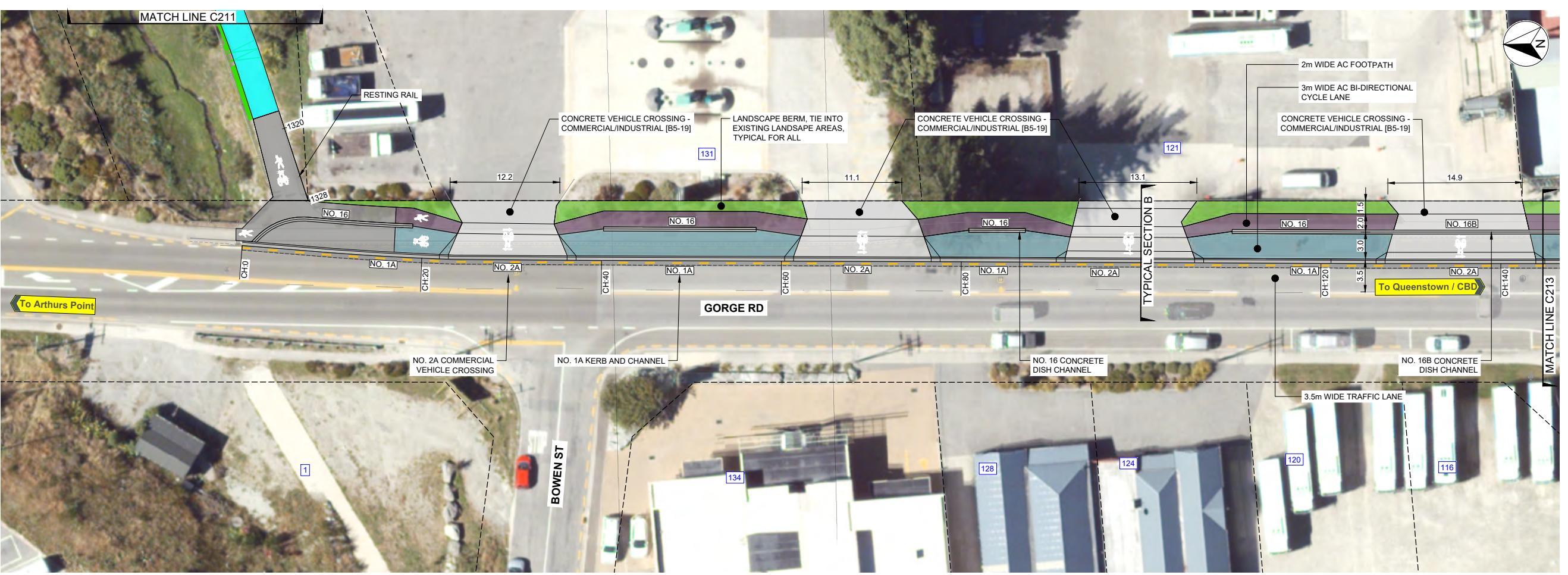
SCALES		ORIGINAL SIZE
AS SHOWN		A1
DRAWN	DESIGNED	APPROVED
P. FIEREK	P. FIEREK	R. GILL
DRAWING VERIFIED	DESIGN VERIFIED	APPROVED DATE
S. FORBES	S. SHERLAW	2021-07-09

FOR TENDER

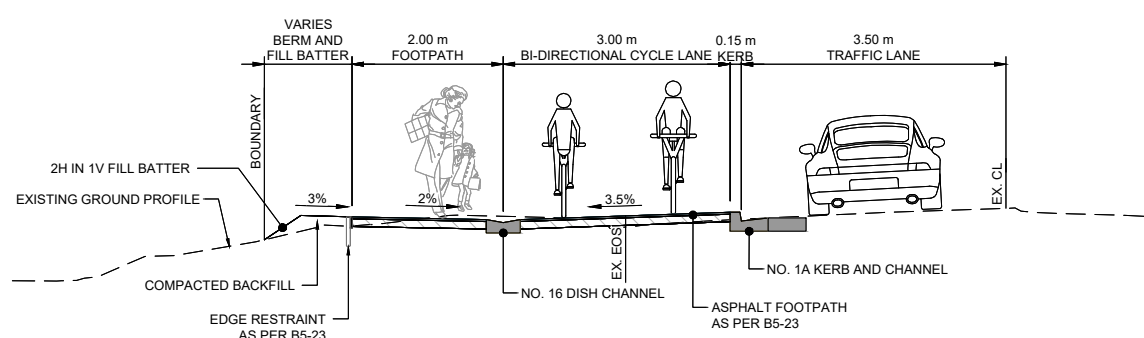
PROJECT			
QUEENSTOWN LAKES DISTRICT COUNCIL			
WAKATIPU ACTIVE TRAVEL			
WATN STAGE 2 ROUTES - ROUTE C5			
TITLE			
GENERAL LAYOUT			
SHEET 12 OF 23			
WSP PROJECT NO.	PROJ-ORIG-VOL-LOC-TYPE	SHEET NO.	REVISION
6-XQ141.00	6-XQ141-WSP-01-C5-DR	C211	D

LEGEND	
EXISTING	
	LEGAL BOUNDARY
	KERB & CHANNEL
	EDGE OF SEAL
	FENCE
	GUARDRAIL
	TOP OF BANK
	BOTTOM OF BANK
	BRIDGE
PROPOSED	
	KERB AND CHANNEL
	PRAM CROSSING
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	SHARED PATH - GRAVEL
	SHARED PATH - CHIP SEAL
	FOOTPATH - AC
	BI-DIRECTIONAL CYCLE LANE - AC
	VEHICLE CROSSING - CONCRETE
	ROAD - CHIP SEAL
	ROAD - AC
	VERGE / UNSEALED SHOULDER
	GRASSED BERM
	LANDSCAPE AREA
	CUT BATTER
	FILL BATTER
	BRIDGE / BOARDWALK
	RETAINING WALL WITH BARRIER
	WARNING TACTILES

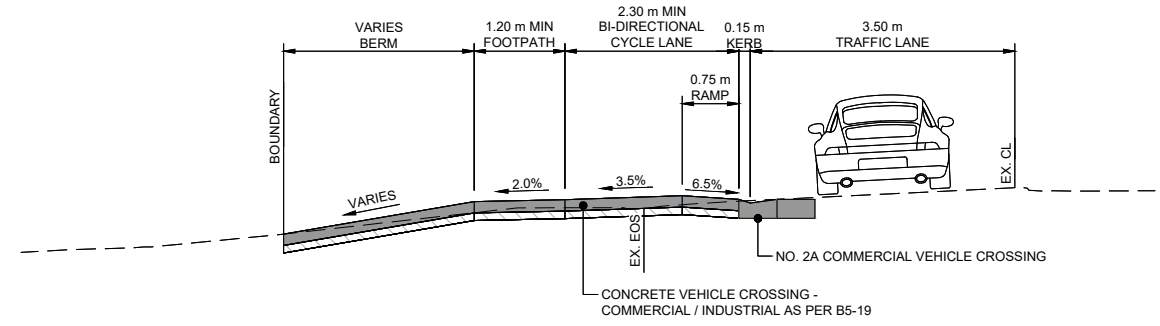
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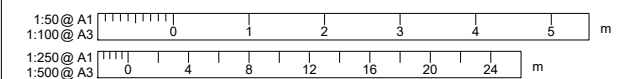
PLAN
SCALE 1:250(A1), 1:500(A3)



TYPICAL CROSS SECTION
SCALE 1:50(A1), 1:100(A3)



TYPICAL CROSS SECTION
SCALE 1:50(A1), 1:100(A3)



REVISION	AMENDMENT	APPROVED	DATE
A	ISSUED FOR SAFETY AUDIT	S.S.	2021-07-09
B	DETAILED DESIGN ISSUED FOR CLIENT REVIEW	R.G.	2021-08-02
C	DETAILED DESIGN ISSUED FOR CLIENT APPROVAL	R.G.	2021-08-30
D	DETAILED DESIGN ISSUED FOR TENDER	R.G.	2021-10-22



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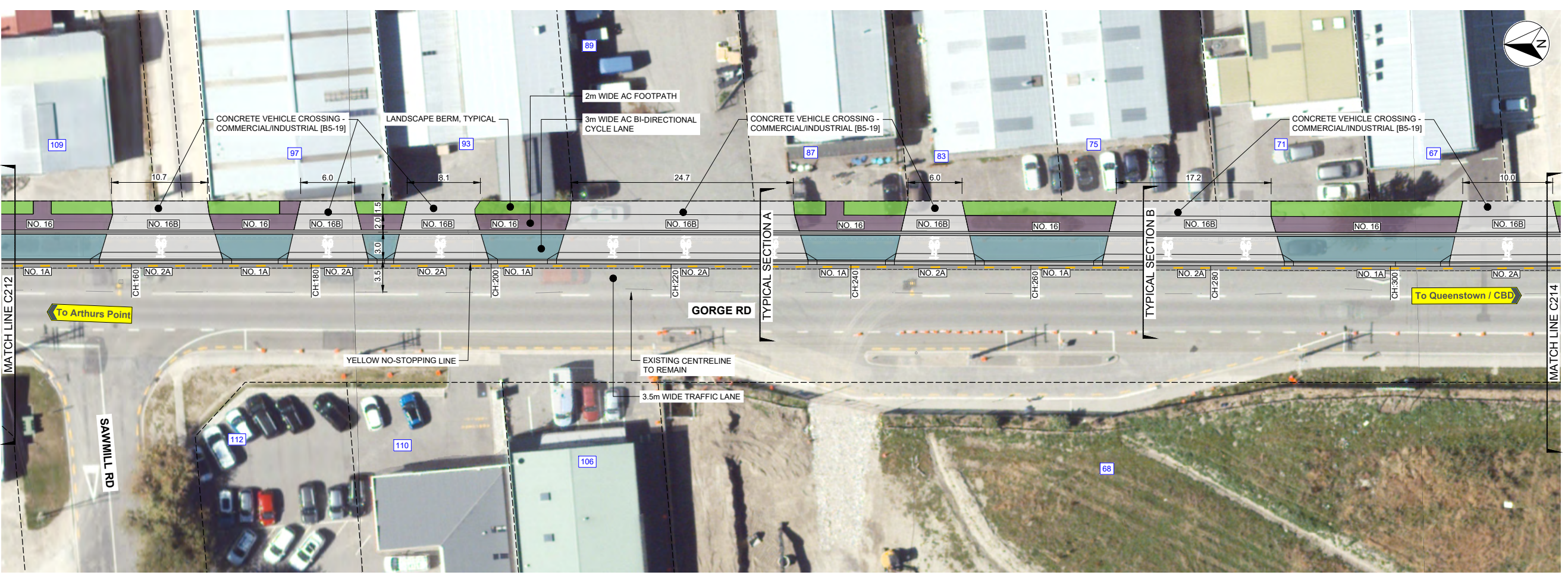
SCALES		ORIGINAL SIZE
1:50, 1:250 @ A1		A1
DRAWN	DESIGNED	APPROVED
P. FIEREK	P. FIEREK	R. GILL
DRAWING VERIFIED	DESIGN VERIFIED	APPROVED DATE
S. FORBES	S. SHERLAW	2021-07-09

FOR TENDER

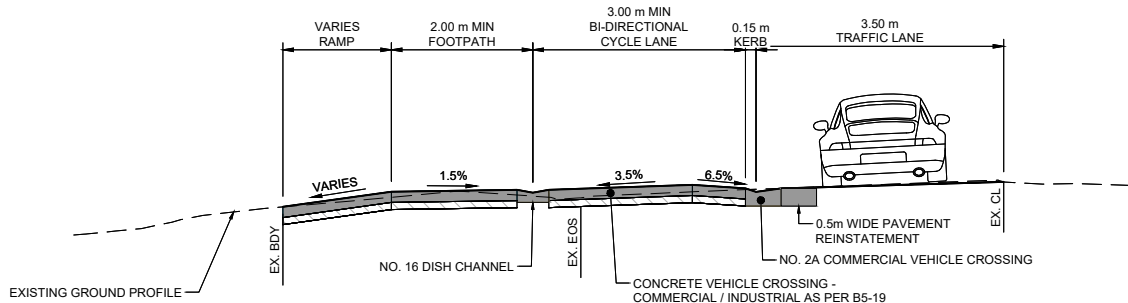
PROJECT			
QUEENSTOWN LAKES DISTRICT COUNCIL WAKATIPU ACTIVE TRAVEL WATN STAGE 2 ROUTES - ROUTE C5			
TITLE			
GENERAL LAYOUT SHEET 13 OF 23			
WSP PROJECT NO.	PROJ-ORIG-VOL-LOC-TYPE	SHEET NO.	REVISION
6-QX141.00	6-QX141-WSP-01-C5-DR	C212	D

LEGEND	
EXISTING	
	LEGAL BOUNDARY
	KERB & CHANNEL
	EDGE OF SEAL
	FENCE
	GUARDRAIL
	TOP OF BANK
	BOTTOM OF BANK
	BRIDGE
PROPOSED	
	KERB AND CHANNEL
	PRAM CROSSING
	DISH CHANNEL
	KERB STONE WITH CHANNEL
	NIB KERB
	SHARED PATH - AC
	SHARED PATH - GRAVEL
	SHARED PATH - CHIP SEAL
	FOOTPATH - AC
	BI-DIRECTIONAL CYCLE LANE - AC
	VEHICLE CROSSING - CONCRETE
	ROAD - CHIP SEAL
	ROAD - AC
	VERGE / UNSEALED SHOULDER
	GRASSED BERM
	LANDSCAPE AREA
	CUT BATTER
	FILL BATTER
	BRIDGE / BOARDWALK
	RETAINING WALL WITH BARRIER
	WARNING TACTILES

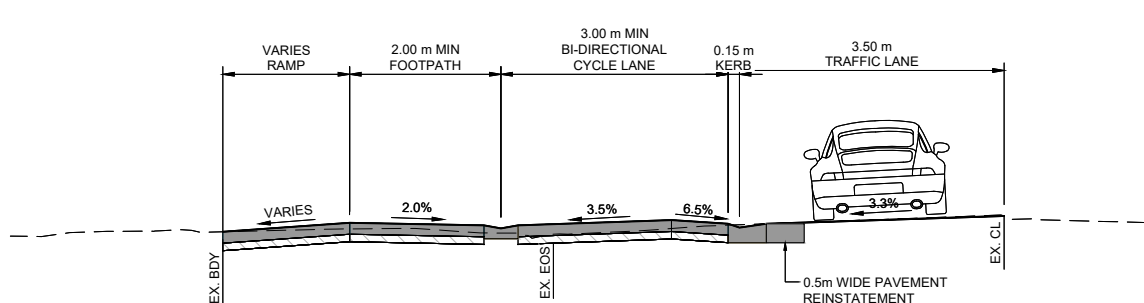
- PLANS TO BE READ IN CONJUNCTION WITH ALL OTHER DRAWINGS AND SPECIFICATIONS.
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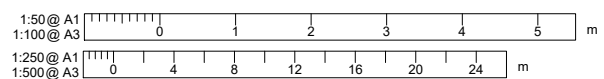
PLAN
SCALE 1:250(A1), 1:500(A3)



TYPICAL SECTION A
SCALE 1:50(A1), 1:100(A3)



TYPICAL SECTION B
SCALE 1:50(A1), 1:100(A3)



REVISION	AMENDMENT	APPROVED	DATE
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SCALES		ORIGINAL SIZE
1:250 @ A1		A1
DRAWN	DESIGNED	APPROVED
P. FIEREK	P. FIEREK	R. GILL
DRAWING VERIFIED	DESIGN VERIFIED	APPROVED DATE
S. FORBES	S. SHERLAW	2021-07-09

FOR TENDER

PROJECT			
QUEENSTOWN LAKES DISTRICT COUNCIL			
WAKATIPU ACTIVE TRAVEL			
WATN STAGE 2 ROUTES - ROUTE C5			
TITLE			
GENERAL LAYOUT			
SHEET 14 OF 23			
WSP PROJECT NO.	PROJ-ORIG-VOL-LOC-TYPE	SHEET NO.	REVISION
6-QX141.00	6-QX141-WSP-01-C5-DR	C213	D

LEGEND

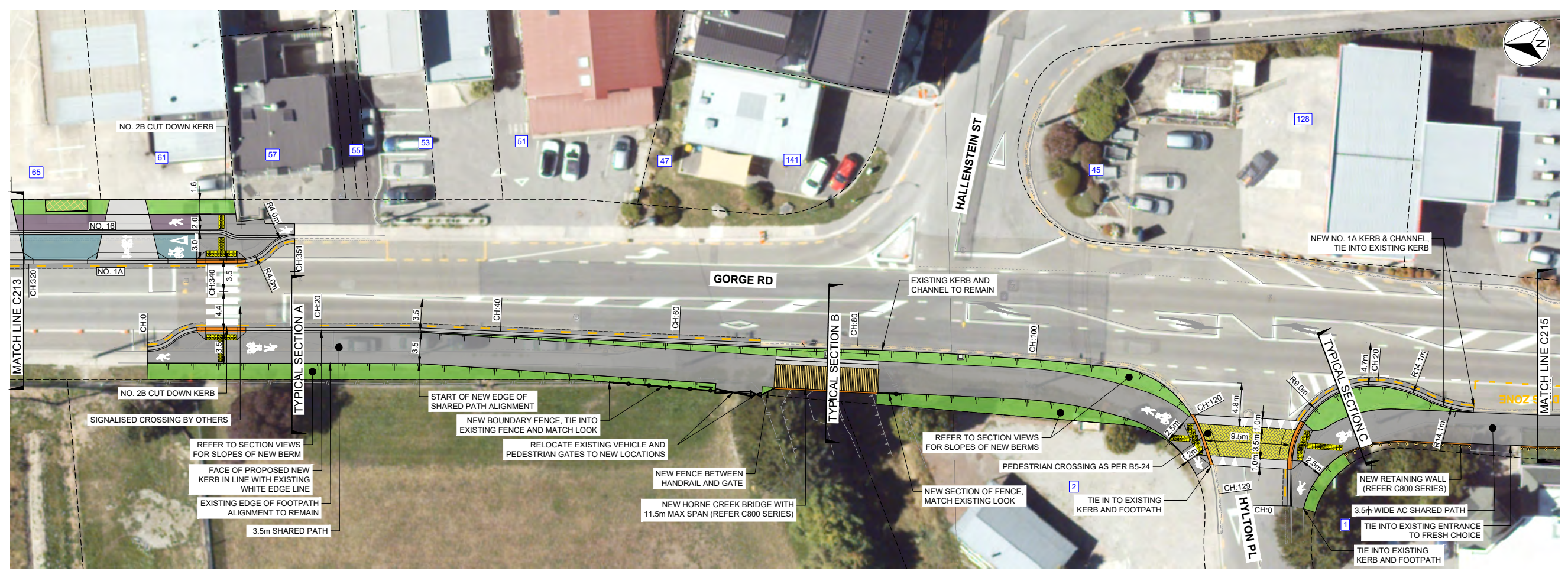
EXISTING

- LEGAL BOUNDARY
- KERB & CHANNEL
- EDGE OF SEAL
- FENCE
- GUARDRAIL
- TOP OF BANK
- BOTTOM OF BANK
- BRIDGE

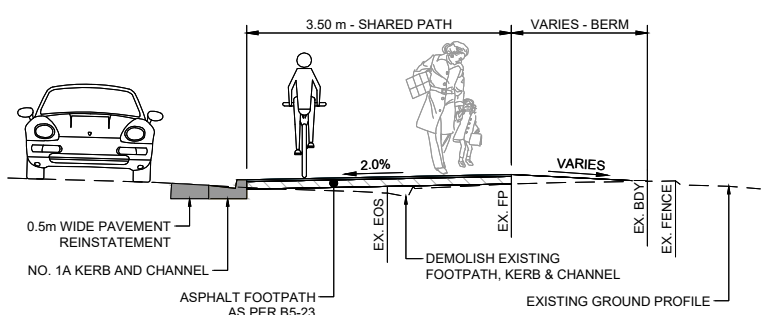
PROPOSED

- KERB AND CHANNEL
- PRAM CROSSING
- DISH CHANNEL
- KERB STONE WITH CHANNEL
- NIB KERB
- SHARED PATH - AC
- SHARED PATH - GRAVEL
- SHARED PATH - CHIP SEAL
- FOOTPATH - AC
- BI-DIRECTIONAL CYCLE LANE - AC
- VEHICLE CROSSING - CONCRETE
- ROAD - CHIP SEAL
- ROAD - AC
- VERGE / UNSEALED SHOULDER
- GRASSED BERM
- LANDSCAPE AREA
- CUT BATTER
- FILL BATTER
- BRIDGE / BOARDWALK
- RETAINING WALL WITH BARRIER
- WARNING TACTILES

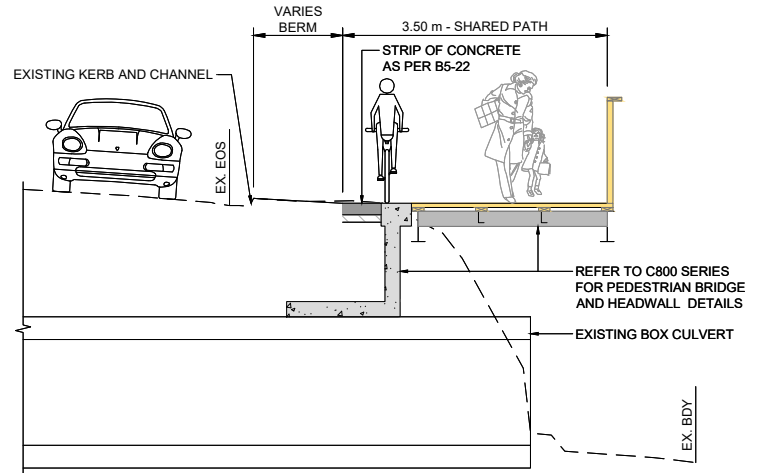
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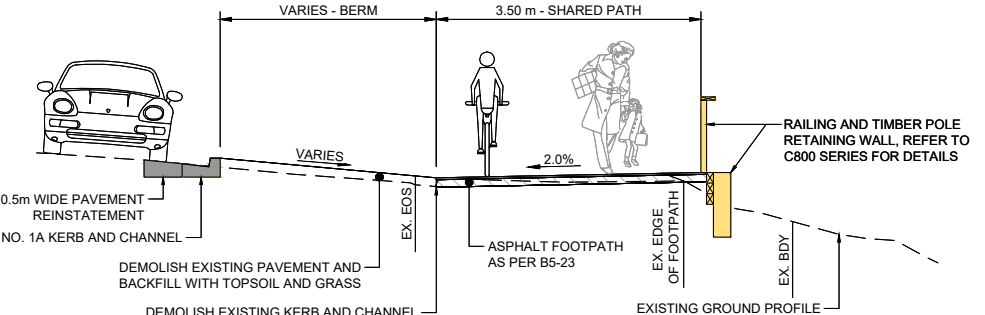
PLAN
SCALE 1:250(A1), 1:500(A3)



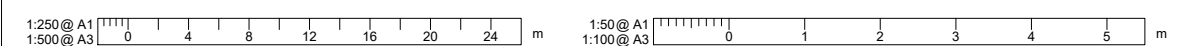
TYPICAL SECTION A
SCALE 1:50(A1), 1:100(A3)



TYPICAL SECTION B
SCALE 1:50(A1), 1:100(A3)



TYPICAL SECTION C
SCALE 1:50(A1), 1:100(A3)



REVISION	AMENDMENT	APPROVED	DATE
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SCALES	DESIGNED	APPROVED	ORIGINAL SIZE
AS SHOWN	P. FIEREK	R. GILL	A1
DRAWN	P. FIEREK	R. GILL	
DRAWING VERIFIED	S. SHERLAW	APPROVED DATE	
S. FORBES	S. SHERLAW	2021-07-09	

FOR TENDER

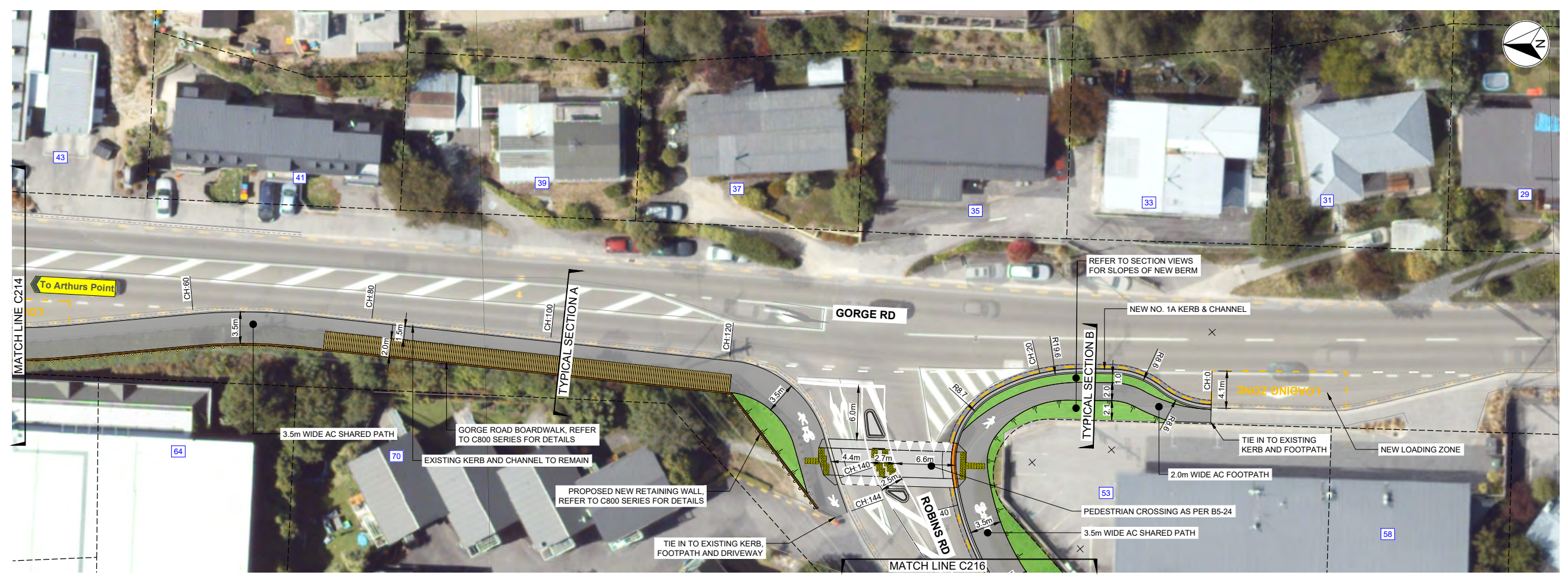
PROJECT
**QUEENSTOWN LAKES DISTRICT COUNCIL
WAKATIPU ACTIVE TRAVEL
WATN STAGE 2 ROUTES - ROUTE C5**

TITLE
**GENERAL LAYOUT
SHEET 15 OF 23**

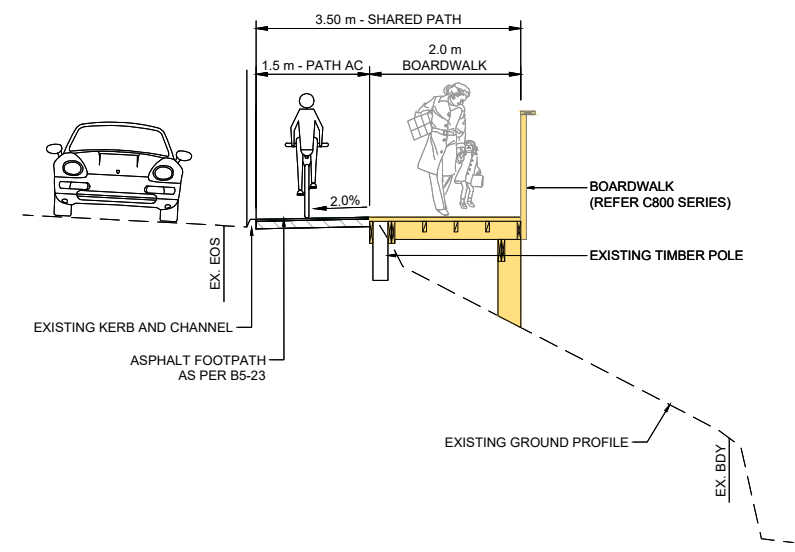
WSP PROJECT NO. 6-QX141.00
PROJ-ORIG-VOL-LOC-TYPE 6-QX141-WSP-01-C5-DR
SHEET NO. C214
REVISION D

LEGEND	
EXISTING	
	LEGAL BOUNDARY
	KERB & CHANNEL
	EDGE OF SEAL
	FENCE
	GUARDRAIL
	TOP OF BANK
	BOTTOM OF BANK
	BRIDGE
PROPOSED	
	KERB AND CHANNEL
	PRAM CROSSING
	DISH CHANNEL
	KERB STONE WITH CHANNEL
	NIB KERB
	SHARED PATH - AC
	SHARED PATH - GRAVEL
	SHARED PATH - CHIP SEAL
	FOOTPATH - AC
	BI-DIRECTIONAL CYCLE LANE - AC
	VEHICLE CROSSING - CONCRETE
	ROAD - CHIP SEAL
	ROAD - AC
	VERGE / UNSEALED SHOULDER
	GRASSED BERM
	LANDSCAPE AREA
	CUT BATTER
	FILL BATTER
	BRIDGE / BOARDWALK
	RETAINING WALL WITH BARRIER
	WARNING TACTILES

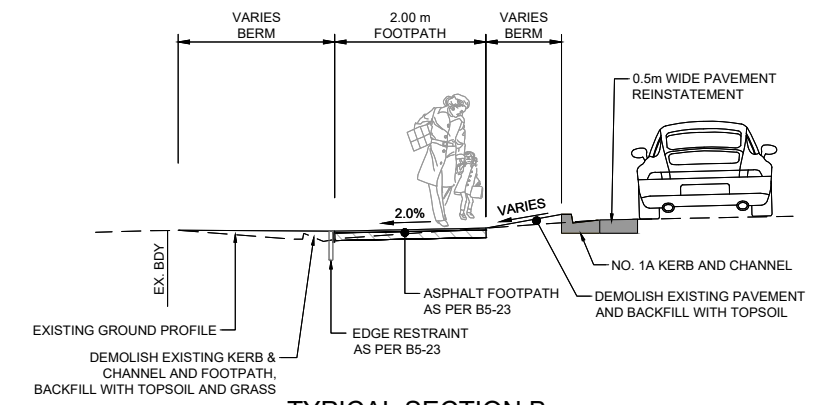
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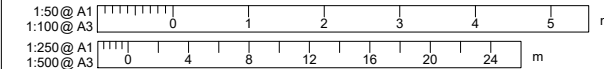
PLAN
SCALE 1:250(A1), 1:500(A3)



TYPICAL SECTION A
SCALE 1:50(A1), 1:100(A3)



TYPICAL SECTION B
SCALE 1:50(A1), 1:100(A3)



REVISION	AMENDMENT	APPROVED	DATE
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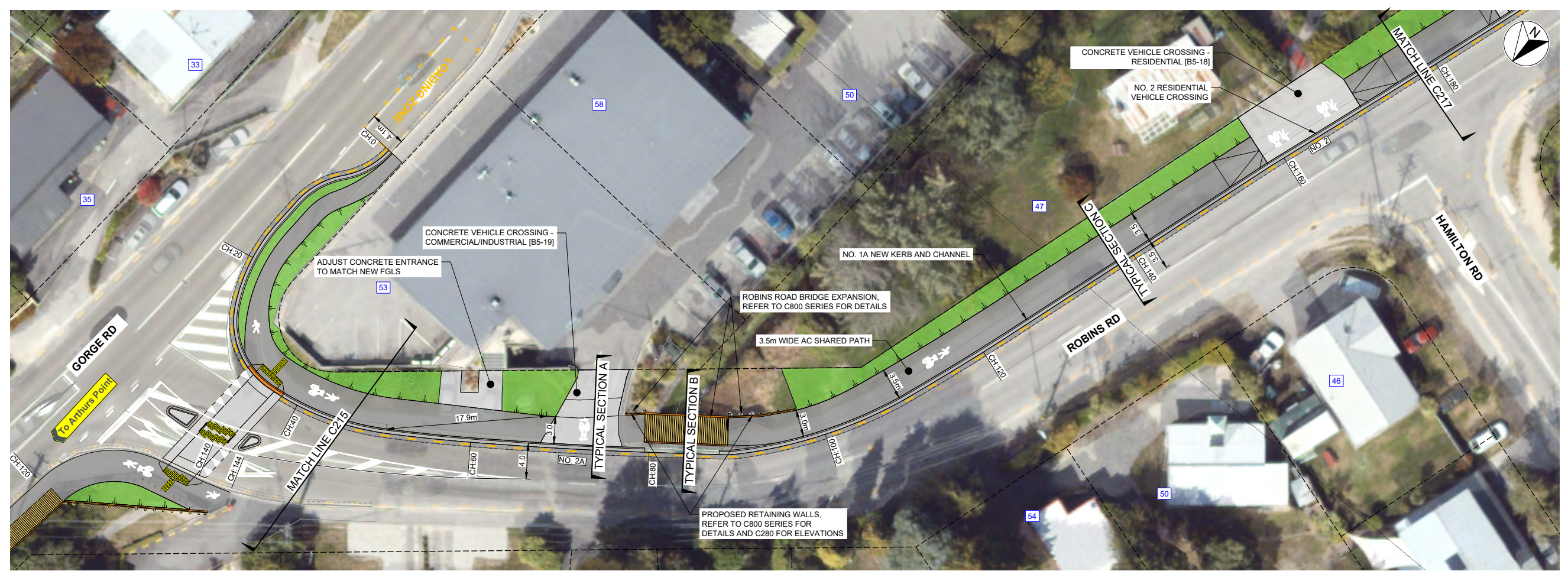
SCALES		ORIGINAL SIZE
AS SHOWN		A1
DRAWN	DESIGNED	APPROVED
P. FIEREK	P. FIEREK	R. GILL
DRAWING VERIFIED	DESIGN VERIFIED	APPROVED DATE
S. FORBES	S. SHERLAW	2021-07-09

FOR TENDER

PROJECT			
QUEENSTOWN LAKES DISTRICT COUNCIL			
WAKATIPU ACTIVE TRAVEL			
WATN STAGE 2 ROUTES - ROUTE C5			
TITLE			
GENERAL LAYOUT			
SHEET 16 OF 23			
WSP PROJECT NO.	PROJ-ORIG-VOL-LOC-TYPE	SHEET NO.	REVISION
6-QX141.00	6-QX141-WSP-01-C5-DR	C215	D

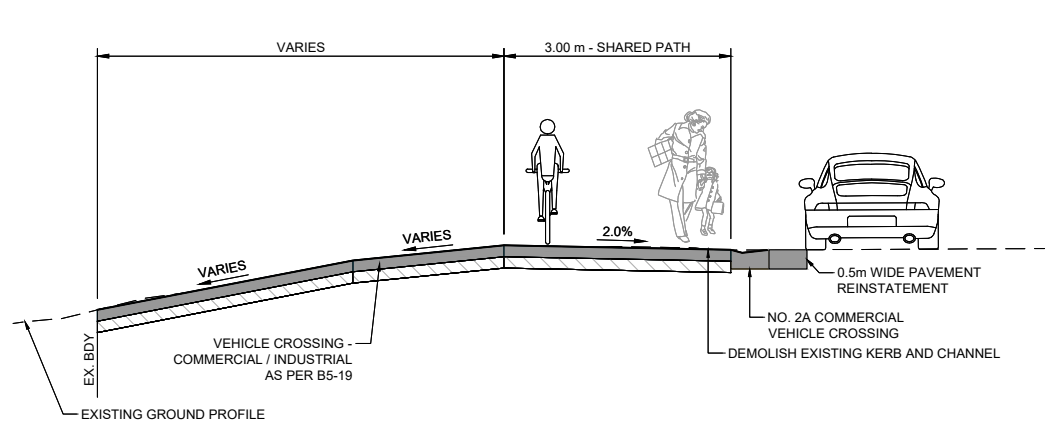
LEGEND	
EXISTING	
---	LEGAL BOUNDARY
---	KERB & CHANNEL
---	EDGE OF SEAL
---	FENCE
---	GUARDRAIL
---	TOP OF BANK
---	BOTTOM OF BANK
---	BRIDGE
PROPOSED	
---	KERB AND CHANNEL
---	PRAM CROSSING
---	DISH CHANNEL
---	KERB STONE WITH CHANNEL
---	NIB KERB
---	SHARED PATH - AC
---	SHARED PATH - GRAVEL
---	SHARED PATH - CHIP SEAL
---	FOOTPATH - AC
---	BI-DIRECTIONAL CYCLE LANE - AC
---	VEHICLE CROSSING - CONCRETE
---	ROAD - CHIP SEAL
---	ROAD - AC
---	VERGE / UNSEALED SHOULDER
---	GRASSED BERM
---	LANDSCAPE AREA
---	CUT BATTER
---	FILL BATTER
---	BRIDGE / BOARDWALK
---	RETAINING WALL WITH BARRIER
---	WARNING TACTILES

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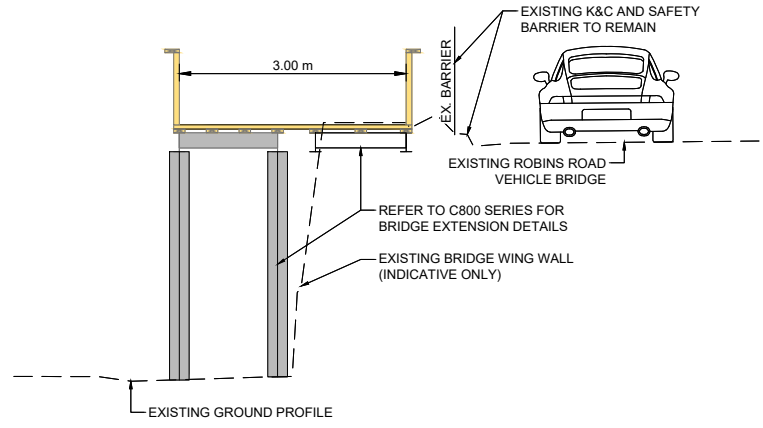


PLAN
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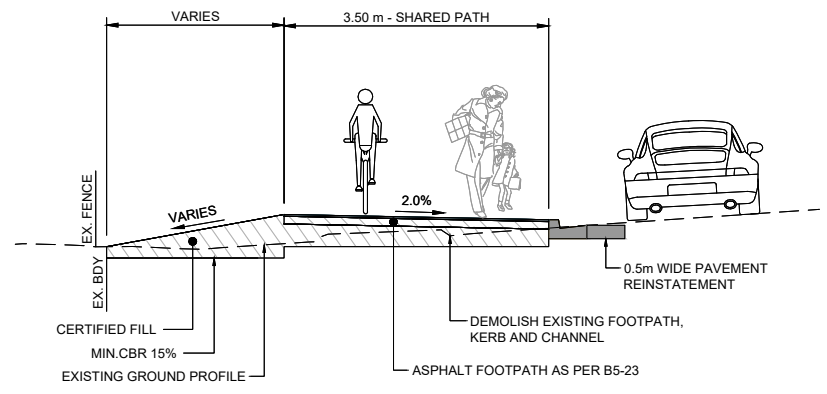
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200
100
50
0 10 mm



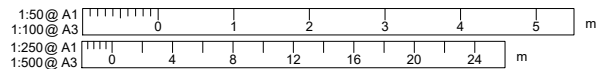
TYPICAL SECTION A
SCALE 1:50(A1), 1:100(A3)



TYPICAL SECTION B
SCALE 1:50(A1), 1:100(A3)



TYPICAL SECTION C
SCALE 1:50(A1), 1:100(A3)



REVISION	AMENDMENT	APPROVED	DATE
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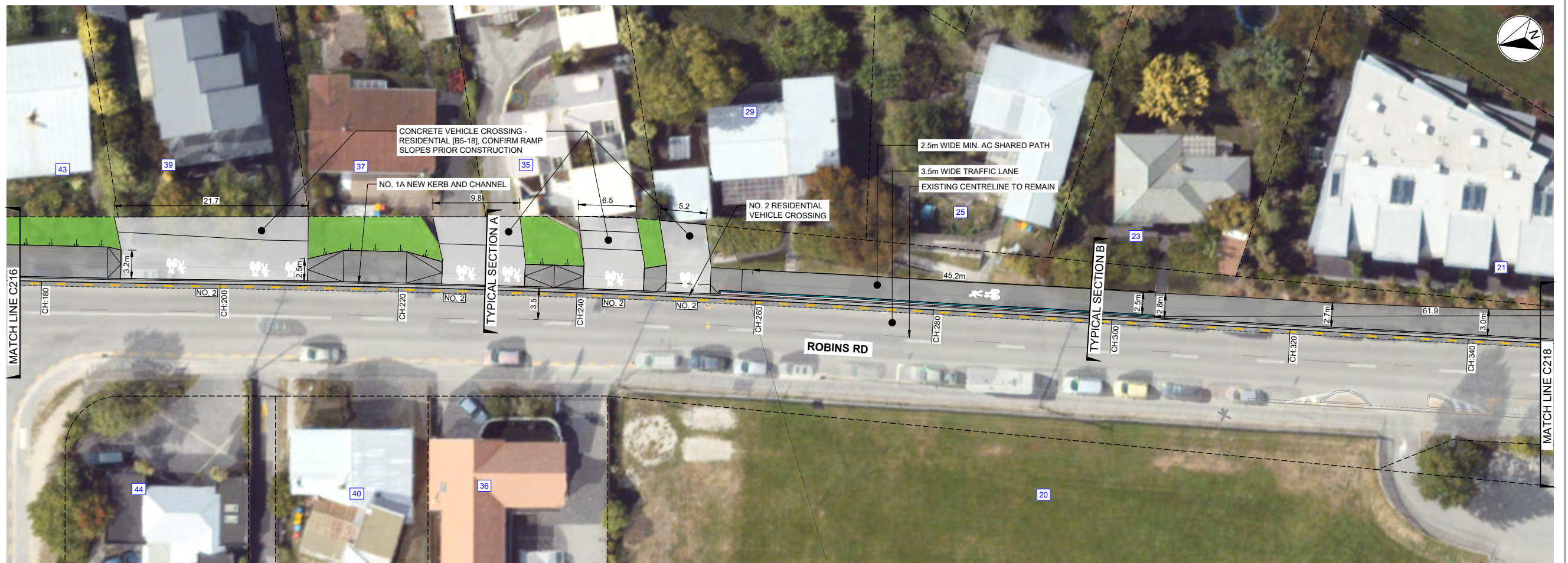
SCALES	DESIGNED	APPROVED	ORIGINAL SIZE
AS SHOWN	P.FIEREK	R.GILL	A1
DRAWN	P.FIEREK	R.GILL	
DRAWING VERIFIED	S.SHERLAW	APPROVED DATE	
S.FORBES	S.SHERLAW	2021-07-09	

FOR TENDER

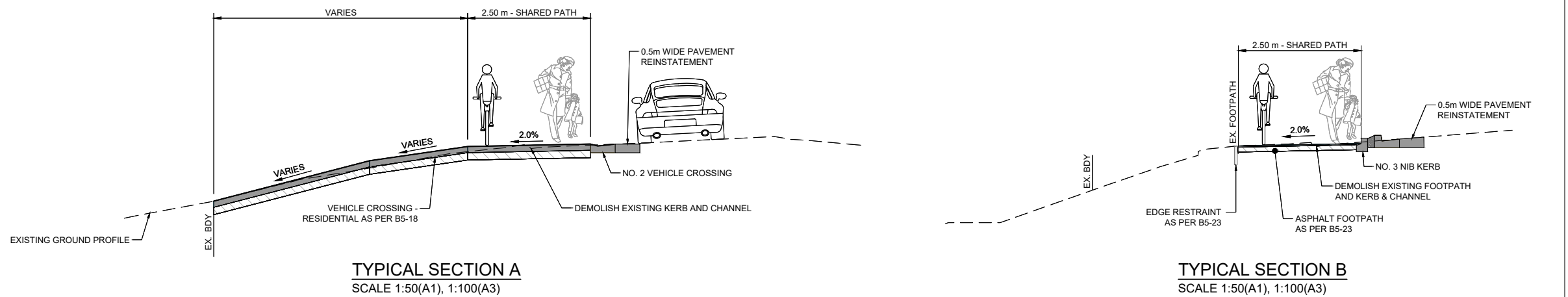
PROJECT			
QUEENSTOWN LAKES DISTRICT COUNCIL			
WAKATIPU ACTIVE TRAVEL			
WATN STAGE 2 ROUTES - ROUTE C5			
TITLE			
GENERAL LAYOUT			
SHEET 17 OF 23			
WSP PROJECT NO.	PROJ-ORIG-VOL-LOC-TYPE	SHEET NO.	REVISION
6-QX141.00	6-QX141-WSP-01-C5-DR	C216	D

LEGEND	
EXISTING	
	LEGAL BOUNDARY
	KERB & CHANNEL
	EDGE OF SEAL
	FENCE
	GUARDRAIL
	TOP OF BANK
	BOTTOM OF BANK
	BRIDGE
PROPOSED	
	KERB AND CHANNEL
	PRAM CROSSING
	DISH CHANNEL
	KERB STONE WITH CHANNEL
	NIB KERB
	SHARED PATH - AC
	SHARED PATH - GRAVEL
	SHARED PATH - CHIP SEAL
	FOOTPATH - AC
	BI-DIRECTIONAL CYCLE LANE - AC
	VEHICLE CROSSING - CONCRETE
	ROAD - CHIP SEAL
	ROAD - AC
	VERGE / UNSEALED SHOULDER
	GRASSED BERM
	LANDSCAPE AREA
	CUT BATTER
	FILL BATTER
	BRIDGE / BOARDWALK
	RETAINING WALL WITH BARRIER
	WARNING TACTILES

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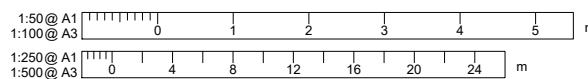


PLAN
SCALE 1:250(A1), 1:500(A3)



TYPICAL SECTION A
SCALE 1:50(A1), 1:100(A3)

TYPICAL SECTION B
SCALE 1:50(A1), 1:100(A3)



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SCALES	DESIGNED	APPROVED	ORIGINAL SIZE
AS SHOWN	P.FIEREK	R.GILL	A1
DRAWN	P.FIEREK	R.GILL	
DRAWING VERIFIED	S.SHERLAW	APPROVED DATE	
S.FORBES	S.SHERLAW	2021-07-09	

FOR TENDER

PROJECT			
QUEENSTOWN LAKES DISTRICT COUNCIL			
WAKATIPU ACTIVE TRAVEL			
WATN STAGE 2 ROUTES - ROUTE C5			
TITLE			
GENERAL LAYOUT			
SHEET 18 OF 23			
WSP PROJECT NO.	PROJ-ORIG-VOL-LOC-TYPE	SHEET NO.	REVISION
6-QX141.00	6-QX141-WSP-01-C5-DR	C217	D

LEGEND

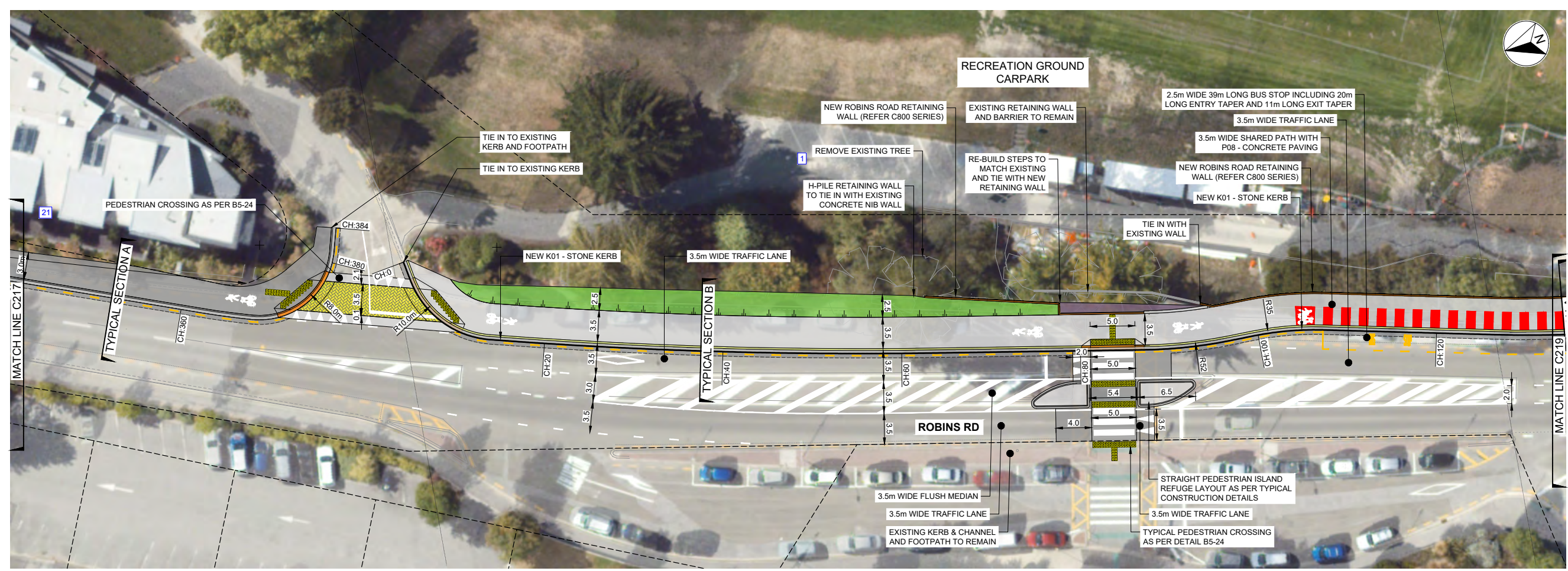
EXISTING

- LEGAL BOUNDARY
- KERB & CHANNEL
- EDGE OF SEAL
- FENCE
- GUARDRAIL
- TOP OF BANK
- BOTTOM OF BANK
- BRIDGE

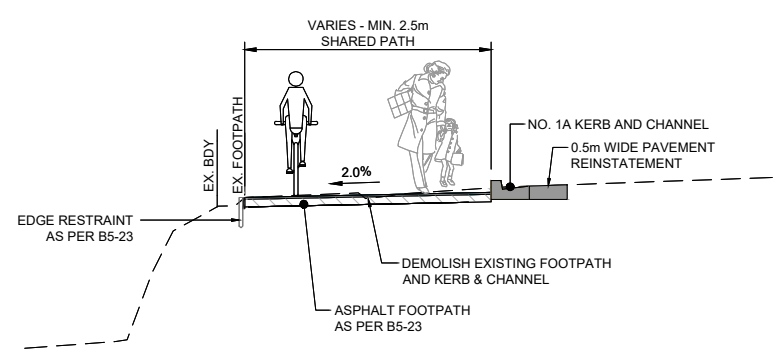
PROPOSED

- KERB AND CHANNEL
- PRAM CROSSING
- DISH CHANNEL
- KERB STONE WITH CHANNEL
- NIB KERB
- SHARED PATH - AC
- SHARED PATH - GRAVEL
- SHARED PATH - CHIP SEAL
- FOOTPATH - AC
- BI-DIRECTIONAL CYCLE LANE - AC
- VEHICLE CROSSING - CONCRETE
- ROAD - CHIP SEAL
- ROAD - AC
- VERGE / UNSEALED SHOULDER
- GRASSED BERM
- LANDSCAPE AREA
- CUT BATTER
- FILL BATTER
- BRIDGE / BOARDWALK
- RETAINING WALL WITH BARRIER
- WARNING TACTILES

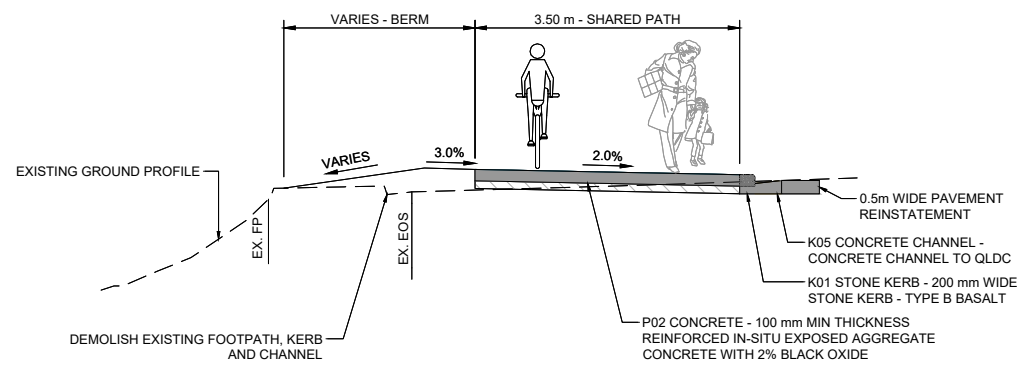
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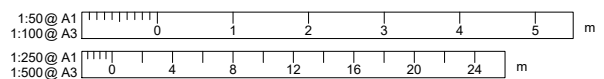
PLAN
SCALE 1:250(A1), 1:500(A3)



TYPICAL SECTION A
SCALE 1:50(A1), 1:100(A3)



TYPICAL SECTION B
SCALE 1:50(A1), 1:100(A3)



REVISION	AMENDMENT	APPROVED	DATE
A	ISSUED FOR SAFETY AUDIT	S.S.	2021-07-09
B	DETAILED DESIGN ISSUED FOR CLIENT REVIEW	R.G.	2021-08-02
C	DETAILED DESIGN ISSUED FOR CLIENT APPROVAL	R.G.	2021-08-30
D	DETAILED DESIGN ISSUED FOR TENDER	R.G.	2021-10-22



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New Zealand

CIVIL

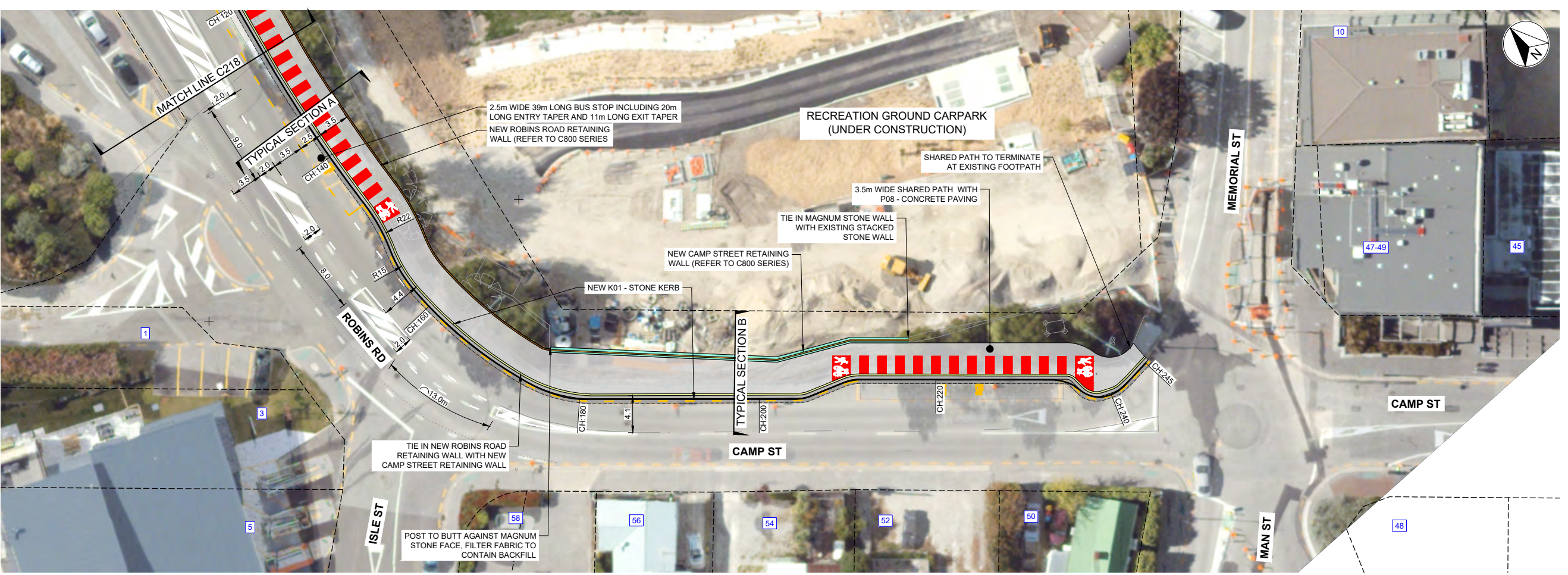
SCALES	DESIGNED	APPROVED
AS SHOWN	P.FIEREK	R.GILL
DRAWN	P.FIEREK	R.GILL
DRAWING VERIFIED	S.SHERLAW	2021-07-09
S.FORBES	S.SHERLAW	2021-07-09

FOR TENDER

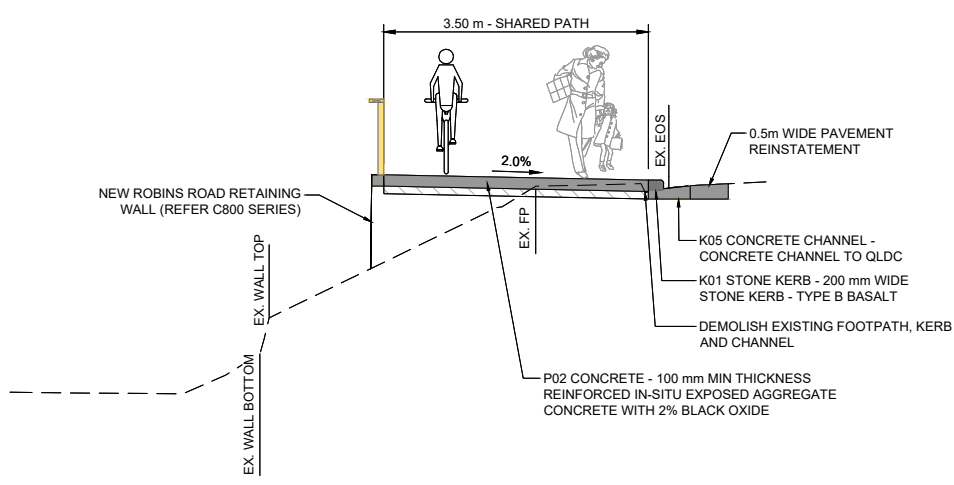
PROJECT		SHEET NO.		REVISION	
QUEENSTOWN LAKES DISTRICT COUNCIL WAKATIPU ACTIVE TRAVEL WATN STAGE 2 ROUTES - ROUTE C5		C218		D	
TITLE					
GENERAL LAYOUT SHEET 19 OF 23					
WSP PROJECT NO.	PROJ-ORIG-VOL-LOC-TYPE	SHEET NO.	REVISION		
6-XQ141.00	6-XQ141-WSP-01-C5-DR	C218	D		

LEGEND	
EXISTING	
---	LEGAL BOUNDARY
---	KERB & CHANNEL
---	EDGE OF SEAL
---	FENCE
---	GUARDRAIL
---	TOP OF BANK
---	BOTTOM OF BANK
---	BRIDGE
PROPOSED	
---	KERB AND CHANNEL
---	PRAM CROSSING
---	DISH CHANNEL
---	KERB STONE WITH CHANNEL
---	NIB KERB
---	SHARED PATH - AC
---	SHARED PATH - GRAVEL
---	SHARED PATH - CHIP SEAL
---	FOOTPATH - AC
---	BI-DIRECTIONAL CYCLE LANE - AC
---	VEHICLE CROSSING - CONCRETE
---	ROAD - CHIP SEAL
---	ROAD - AC
---	VERGE / UNSEALED SHOULDER
---	GRASSED BERM
---	LANDSCAPE AREA
---	CUT BATTER
---	FILL BATTER
---	BRIDGE / BOARDWALK
---	RETAINING WALL WITH BARRIER
---	WARNING TACTILES

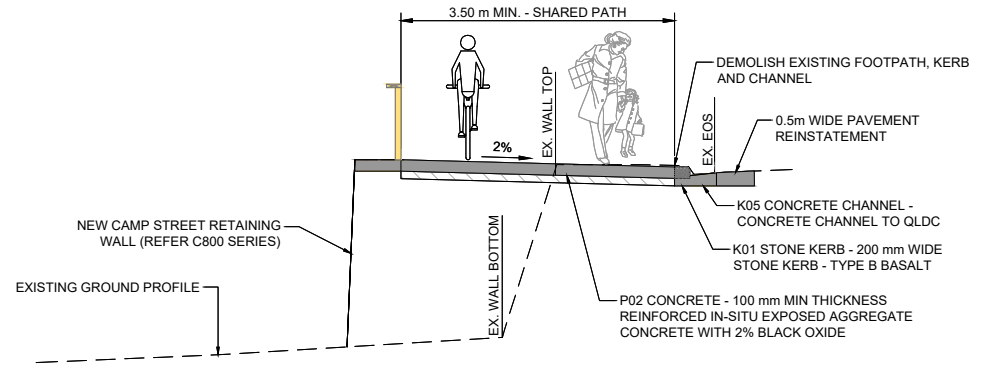
1. PLANS TO BE READ IN CONJUNCTION WITH ALL OTHER DRAWINGS AND SPECIFICATIONS.
2. CONTRACTOR SHALL CONFIRM DIMENSION AND SET-OUT PRIOR TO ORDERING MATERIAL OR CONSTRUCTION.
3. DIMENSIONS SHALL NOT BE OBTAINED BY SCALING FROM DRAWINGS.
4. ALL PAVEMENT MARKINGS AND SIGNAGE SHALL BE CONSTRUCTED AS PER MOTSAM AND TRAFFIC CONTROL DEVICES MANUAL.
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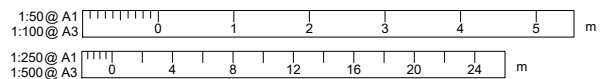
PLAN
SCALE 1:250(A1), 1:500(A3)



TYPICAL SECTION A
SCALE 1:50(A1), 1:100(A3)



TYPICAL SECTION B
SCALE 1:50(A1), 1:100(A3)



REVISION	AMENDMENT	APPROVED	DATE
A	ISSUED FOR SAFETY AUDIT	S.S.	2021-07-09
B	DETAILED DESIGN ISSUED FOR CLIENT REVIEW	R.G.	2021-08-02
C	DETAILED DESIGN ISSUED FOR CLIENT APPROVAL	R.G.	2021-08-30
D	DETAILED DESIGN ISSUED FOR TENDER	R.G.	2021-10-22



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SCALES	DESIGNED	APPROVED	ORIGINAL SIZE
AS SHOWN	P. FIEREK	R. GILL	A1
DRAWN	P. FIEREK	R. GILL	
DRAWING VERIFIED	S. SHERLAW		
		APPROVED DATE	
		2021-07-09	

FOR TENDER

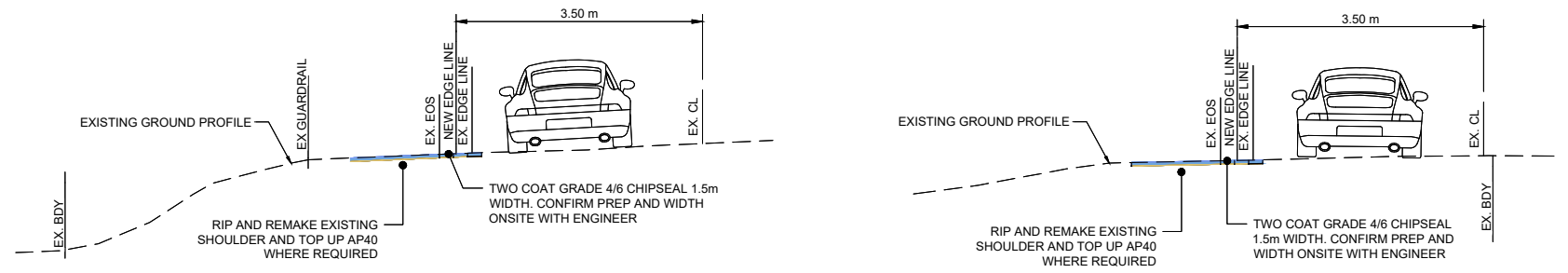
PROJECT			
QUEENSTOWN LAKES DISTRICT COUNCIL			
WAKATIPU ACTIVE TRAVEL			
WATN STAGE 2 ROUTES - ROUTE C5			
TITLE			
GENERAL LAYOUT			
SHEET 20 OF 23			
WSP PROJECT NO.	PROJ-ORIG-VOL-LOC-TYPE	SHEET NO.	REVISION
6-QX141.00	6-QX141-WSP-01-C5-DR	C219	D

LEGEND	
EXISTING	
	LEGAL BOUNDARY
	KERB & CHANNEL
	EDGE OF SEAL
	FENCE
	GUARDRAIL
	TOP OF BANK
	BOTTOM OF BANK
	BRIDGE
PROPOSED	
	KERB AND CHANNEL
	PRAM CROSSING
	DISH CHANNEL
	KERB STONE WITH CHANNEL
	NIB KERB
	SHARED PATH - AC
	SHARED PATH - GRAVEL
	SHARED PATH - CHIP SEAL
	FOOTPATH - AC
	BI-DIRECTIONAL CYCLE LANE - AC
	VEHICLE CROSSING - CONCRETE
	ROAD - CHIP SEAL
	ROAD - AC
	VERGE / UNSEALED SHOULDER
	GRASSED BERM
	LANDSCAPE AREA
	CUT BATTER
	FILL BATTER
	BRIDGE / BOARDWALK
	RETAINING WALL WITH BARRIER
	WARNING TACTILES

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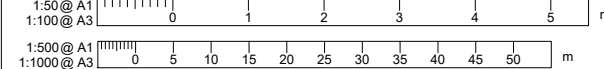


PLAN
SCALE 1:50(A1), 1:1000(A3)



TYPICAL SECTION A
SCALE 1:50(A1), 1:100(A3)

TYPICAL SECTION B
SCALE 1:50(A1), 1:100(A3)



REVISION	AMENDMENT	APPROVED	DATE
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D	DETAILED DESIGN ISSUED FOR TENDER	R.G.	2021-10-22



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New Zealand

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SCALES		ORIGINAL SIZE
AS SHOWN		A1
DRAWN	DESIGNED	APPROVED
P. FIEREK	P. FIEREK	R. GILL
DRAWING VERIFIED	DESIGN VERIFIED	APPROVED DATE
S. FORBES	S. SHERLAW	2021-07-09

FOR TENDER

PROJECT			
QUEENSTOWN LAKES DISTRICT COUNCIL WAKATIPU ACTIVE TRAVEL WATN STAGE 2 ROUTES - ROUTE C5			
TITLE			
GENERAL LAYOUT SHEET 21 OF 23			
WSP PROJECT NO.	PROJ-ORIG-VOL-LOC-TYPE	SHEET NO.	REVISION
6-QX141.00	6-QX141-WSP-01-C5-DR	C220	D

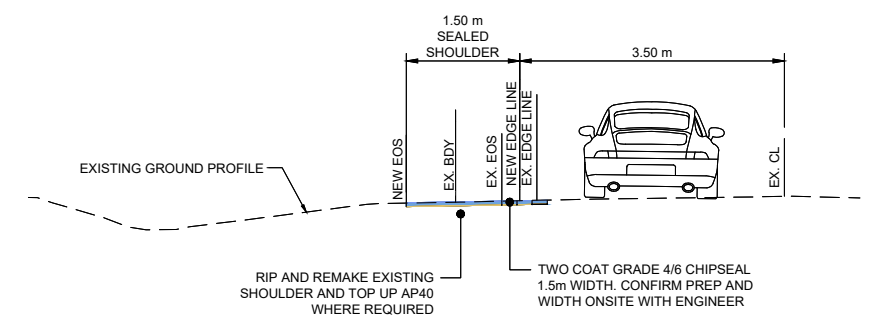
LEGEND	
EXISTING	
	LEGAL BOUNDARY
	KERB & CHANNEL
	EDGE OF SEAL
	FENCE
	GUARDRAIL
	TOP OF BANK
	BOTTOM OF BANK
	BRIDGE
PROPOSED	
	KERB AND CHANNEL
	PRAM CROSSING
	DISH CHANNEL
	KERB STONE WITH CHANNEL
	NIB KERB
	SHARED PATH - AC
	SHARED PATH - GRAVEL
	SHARED PATH - CHIP SEAL
	FOOTPATH - AC
	BI-DIRECTIONAL CYCLE LANE - AC
	VEHICLE CROSSING - CONCRETE
	ROAD - CHIP SEAL
	ROAD - AC
	VERGE / UNSEALED SHOULDER
	GRASSED BERM
	LANDSCAPE AREA
	CUT BATTER
	FILL BATTER
	BRIDGE / BOARDWALK
	RETAINING WALL WITH BARRIER
	WARNING TACTILES

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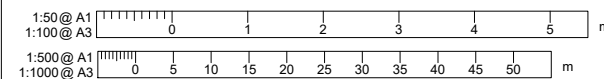


PLAN
SCALE 1:500(A1), 1:1000(A3)

300 mm
200
100
50
0 10 mm



TYPICAL SECTION A
SCALE 1:50(A1), 1:100(A3)



REVISION	AMENDMENT	APPROVED	DATE
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CIVIL

SCALES		ORIGINAL SIZE
AS SHOWN		A1
DRAWN	DESIGNED	APPROVED
P. FIEREK	P. FIEREK	R. GILL
DRAWING VERIFIED	DESIGN VERIFIED	APPROVED DATE
S. FORBES	S. SHERLAW	2021-07-09

FOR TENDER

PROJECT			
QUEENSTOWN LAKES DISTRICT COUNCIL			
WAKATIPU ACTIVE TRAVEL			
WATN STAGE 2 ROUTES - ROUTE C5			
TITLE			
GENERAL LAYOUT			
SHEET 22 OF 23			
WSP PROJECT NO.	PROJ-ORIG-VOL-LOC-TYPE	SHEET NO.	REVISION
6-QX141.00	6-QX141-WSP-01-C5-DR	C221	D



PLAN
SCALE 1:250(A1), 1:500(A3)

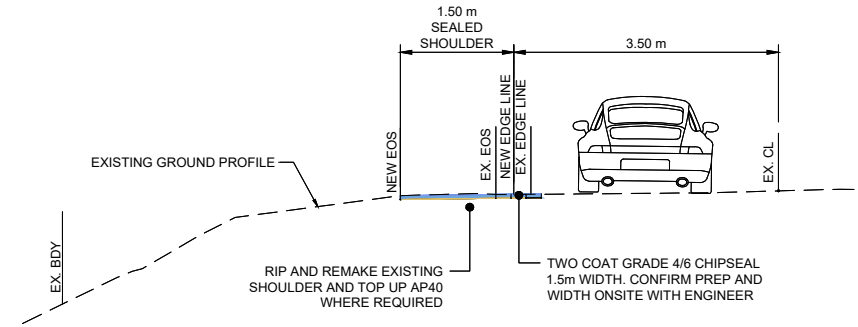
LEGEND

EXISTING	
---	LEGAL BOUNDARY
---	KERB & CHANNEL
---	EDGE OF SEAL
---	FENCE
---	GUARDRAIL
---	TOP OF BANK
---	BOTTOM OF BANK
---	BRIDGE
PROPOSED	
---	KERB AND CHANNEL
---	PRAM CROSSING
---	DISH CHANNEL
---	KERB STONE WITH CHANNEL
---	NIB KERB
---	SHARED PATH - AC
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---	SHARED PATH - CHIP SEAL
---	FOOTPATH - AC
---	BI-DIRECTIONAL CYCLE LANE - AC
---	VEHICLE CROSSING - CONCRETE
---	ROAD - CHIP SEAL
---	ROAD - AC
---	VERGE / UNSEALED SHOULDER
---	GRASSED BERM
---	LANDSCAPE AREA
---	CUT BATTER

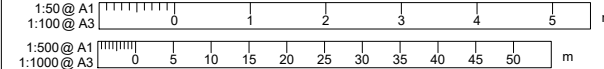
LEGEND CONTINUED

---	FILL BATTER
---	BRIDGE / BOARDWALK
---	RETAINING WALL WITH BARRIER
---	WARNING TACTILES

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TYPICAL SECTION A
SCALE 1:50(A1), 1:100(A3)



REVISION	AMENDMENT	APPROVED	DATE
A	ISSUED FOR SAFETY AUDIT	S.S.	2021-07-09
B	DETAILED DESIGN ISSUED FOR CLIENT REVIEW	R.G.	2021-08-02
C	DETAILED DESIGN ISSUED FOR CLIENT APPROVAL	R.G.	2021-08-30
D	DETAILED DESIGN ISSUED FOR TENDER	R.G.	2021-10-22



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Queenstown 9300
New Zealand

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SCALES		ORIGINAL SIZE
AS SHOWN		A1
DRAWN	DESIGNED	APPROVED
P. FIEREK	P. FIEREK	R. GILL
DRAWING VERIFIED	DESIGN VERIFIED	APPROVED DATE
S. FORBES	S. SHERLAW	2021-07-09

FOR TENDER

PROJECT			
QUEENSTOWN LAKES DISTRICT COUNCIL			
WAKATIPU ACTIVE TRAVEL			
WATN STAGE 2 ROUTES - ROUTE C5			
TITLE			
GENERAL LAYOUT			
SHEET 23 OF 23			
WSP PROJECT NO.	PROJ-ORIG-VOL-LOC-TYPE	SHEET NO.	REVISION
6-QX141.00	6-QX141-WSP-01-C5-DR	C222	D

300 mm
200
100
50
0 10 mm

DATUM: 388.00m

DGN. LEVEL	CUT / FILL	E.G. LEVEL	OFFSETS
389.08	0.00	389.08	12.29
389.04	-0.03	389.04	12.59
389.15	0.08	389.15	12.80
389.21	0.14	389.21	14.41
389.09	0.13	389.09	14.95
389.00	0.05	389.00	15.19
	0.02		15.43

CHAINAGE: 40.00m

DATUM: 395.00m

DGN. LEVEL	CUT / FILL	E.G. LEVEL	OFFSETS
396.15	0.00	396.15	0.09
396.11	-0.04	396.11	0.44
396.27	0.14	396.27	3.05
396.13	-0.12	396.13	3.34
396.38	0.03	396.38	3.46

CHAINAGE: 96.00m

DATUM: 401.00m

DGN. LEVEL	CUT / FILL	E.G. LEVEL	OFFSETS
402.61	0.00	402.61	-0.11
402.60	-0.01	402.60	0.00
402.57	-0.05	402.57	0.25
402.74	0.41	402.74	2.90
402.59	0.38	402.59	3.19
401.63	0.00	401.63	4.88

CHAINAGE: 160.00m

DATUM: 390.00m

DGN. LEVEL	CUT / FILL	E.G. LEVEL	OFFSETS

CHAINAGE: 20.00m

DATUM: 394.00m

DGN. LEVEL	CUT / FILL	E.G. LEVEL	OFFSETS
394.40	0.00	394.40	0.19
394.36	-0.04	394.36	0.55
394.52	0.09	394.52	3.20
394.38	-0.05	394.38	3.49
394.27	-0.07	394.27	3.79
394.26	-0.08	394.26	3.80

CHAINAGE: 80.00m

DATUM: 400.00m

DGN. LEVEL	CUT / FILL	E.G. LEVEL	OFFSETS
400.76	0.00	400.76	-0.17
400.74	-0.01	400.74	0.00
400.84	0.09	400.84	0.20
400.89	0.17	400.89	3.07
400.75	0.07	400.75	3.35
400.64	0.00	400.64	3.66

CHAINAGE: 140.00m

DATUM: 406.00m

DGN. LEVEL	CUT / FILL	E.G. LEVEL	OFFSETS
406.47	0.00	406.47	0.19
406.43	-0.02	406.43	0.55
406.59	0.19	406.59	3.30
406.45	0.09	406.45	3.59
406.31	0.00	406.31	4.00

CHAINAGE: 200.00m

DATUM: 391.00m

DGN. LEVEL	CUT / FILL	E.G. LEVEL	OFFSETS

CHAINAGE: 0.00m

DATUM: 392.00m

DGN. LEVEL	CUT / FILL	E.G. LEVEL	OFFSETS
392.67	0.00	392.67	1.55
392.63	-0.04	392.63	1.90
392.70	0.11	392.70	4.55
392.55	-0.03	392.55	4.84
392.55	-0.03	392.55	5.04
392.58	0.00	392.58	5.06

CHAINAGE: 60.00m

DATUM: 398.00m

DGN. LEVEL	CUT / FILL	E.G. LEVEL	OFFSETS
398.83	0.00	398.83	-0.09
398.82	-0.01	398.82	0.00
398.79	-0.04	398.79	0.27
398.97	0.05	398.97	3.42
398.82	-0.05	398.82	3.71
398.87	0.00	398.87	3.73

CHAINAGE: 120.00m

DATUM: 404.00m

DGN. LEVEL	CUT / FILL	E.G. LEVEL	OFFSETS
404.43	0.00	404.43	0.09
404.38	-0.02	404.38	0.46
404.55	0.27	404.55	3.11
404.40	-0.05	404.40	3.40
404.56	0.00	404.56	3.48

CHAINAGE: 180.00m

1:100 @ A1
1:200 @ A3



REVISION	AMENDMENT	APPROVED	DATE
A	DETAILED DESIGN ISSUED FOR CLIENT REVIEW	R. G.	2021-08-02
B	DETAILED DESIGN ISSUED FOR CLIENT APPROVAL	R. G.	2021-08-30
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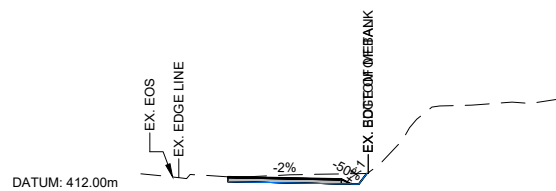
CIVIL

SCALES	DESIGNED	APPROVED
1:100 @ A1	P. FIEREK	R. GILL
	P. FIEREK	R. GILL

FOR TENDER

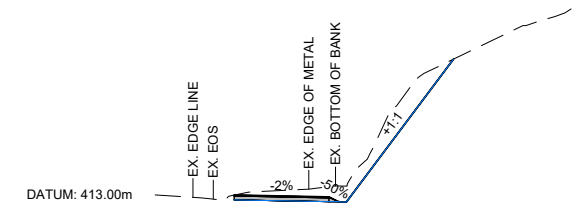
PROJECT	TITLE	WSP PROJECT NO.	PROJ-ORIG-VOL-LOC-TYPE	SHEET NO.	REVISION
QUEENSTOWN LAKES DISTRICT COUNCIL WAKATIPU ACTIVE TRAVEL WATN STAGE 2 ROUTES - ROUTE C5	GORGE ROAD (ARTHURS POINT TO INDUSTRIAL PL) SECTION VIEWS - SHEET 1 OF 14	6-QX141.00	6-QX141-WSP-01-C5-DR	C230	C

300 mm
200
100
50
0 10 mm



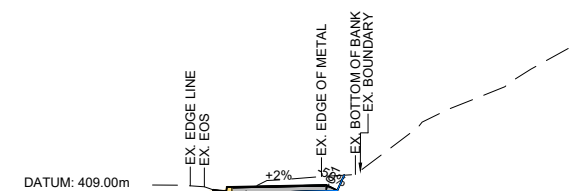
DGN. LEVEL				
CUT / FILL	0.00	-0.14	-0.26	-0.28
E.G. LEVEL	412.57	412.65	412.66	412.38
OFFSETS	1.30	4.30	4.55	4.77

CHAINAGE: 260.00m



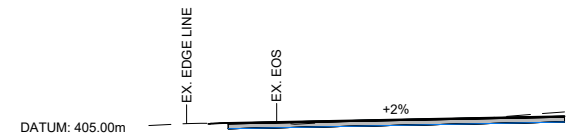
DGN. LEVEL				
CUT / FILL	0.00	-0.27	-0.41	-0.42
E.G. LEVEL	413.41	413.63	413.65	413.23
OFFSETS	1.09	3.80	3.84	4.06

CHAINAGE: 320.00m



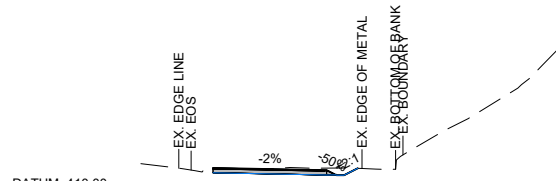
DGN. LEVEL				
CUT / FILL	0.00	-0.23	-0.40	-0.40
E.G. LEVEL	409.23	409.59	409.81	409.21
OFFSETS	0.80	3.60	3.89	4.07

CHAINAGE: 380.00m



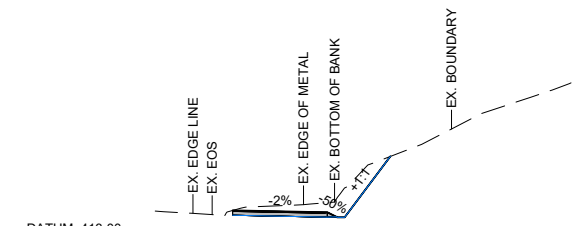
DGN. LEVEL				
CUT / FILL	-0.02	0.00	0.00	-0.12
E.G. LEVEL	405.54	405.54	405.54	405.84
OFFSETS	0.58	0.87	1.10	10.00

CHAINAGE: 440.00m



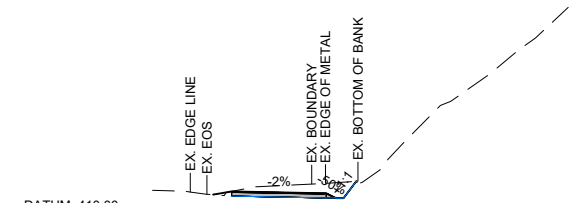
DGN. LEVEL				
CUT / FILL	0.00	-0.06	-0.18	-0.19
E.G. LEVEL	410.85	410.84	410.85	410.84
OFFSETS	0.91	3.92	4.16	4.38

CHAINAGE: 240.00m



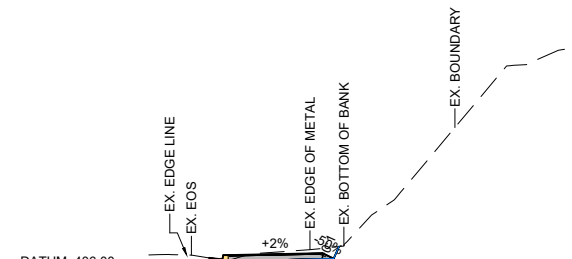
DGN. LEVEL				
CUT / FILL	0.00	-0.26	-0.47	-0.78
E.G. LEVEL	413.91	414.12	414.22	414.51
OFFSETS	1.05	3.55	3.79	4.01

CHAINAGE: 300.00m



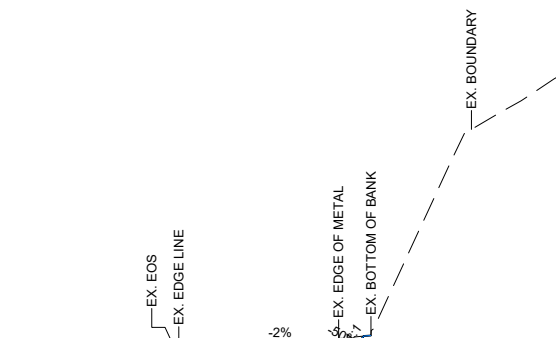
DGN. LEVEL				
CUT / FILL	0.00	-0.26	-0.40	-0.42
E.G. LEVEL	410.73	411.02	411.05	411.08
OFFSETS	0.81	3.60	3.84	4.39

CHAINAGE: 360.00m



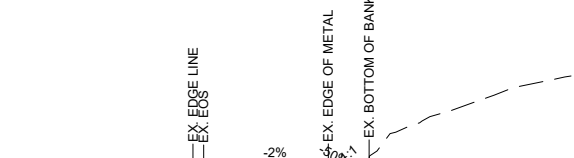
DGN. LEVEL				
CUT / FILL	0.00	-0.13	-0.30	0.00
E.G. LEVEL	406.53	406.79	406.82	406.83
OFFSETS	0.60	3.60	3.89	4.03

CHAINAGE: 420.00m



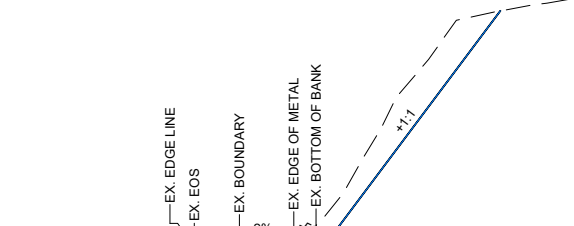
DGN. LEVEL				
CUT / FILL	0.00	-0.15	-0.29	-0.32
E.G. LEVEL	408.63	408.72	408.74	408.77
OFFSETS	1.17	4.18	4.42	4.64

CHAINAGE: 220.00m



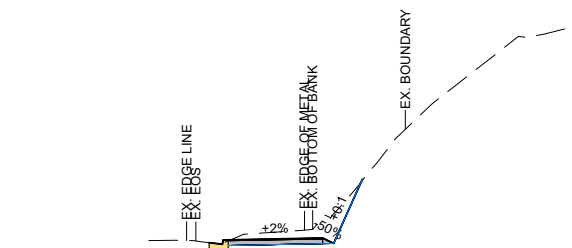
DGN. LEVEL				
CUT / FILL	0.00	-0.04	-0.18	-0.21
E.G. LEVEL	413.64	413.62	413.64	413.65
OFFSETS	0.75	3.56	3.82	4.04

CHAINAGE: 280.00m



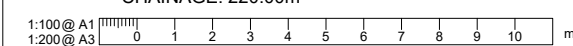
DGN. LEVEL				
CUT / FILL	0.00	-0.29	-0.51	-0.76
E.G. LEVEL	412.43	412.67	412.77	413.01
OFFSETS	0.61	3.11	3.35	3.57

CHAINAGE: 340.00m



DGN. LEVEL				
CUT / FILL	0.00	-0.53	-0.78	0.00
E.G. LEVEL	407.88	408.54	408.64	409.47
OFFSETS	0.59	3.60	3.89	4.61

CHAINAGE: 400.00m



REVISION	AMENDMENT	APPROVED	DATE
A	DETAILED DESIGN ISSUED FOR CLIENT REVIEW	R. G.	2021-08-02
B	DETAILED DESIGN ISSUED FOR CLIENT APPROVAL	R. G.	2021-08-30
C	DETAILED DESIGN ISSUED FOR TENDER	R. G.	2021-10-22



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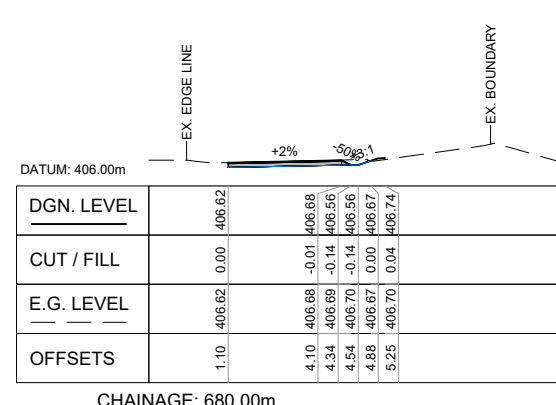
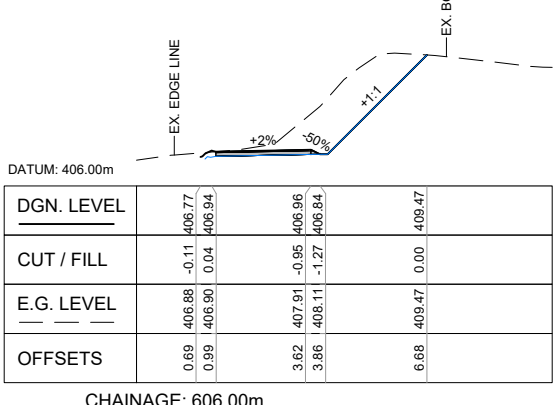
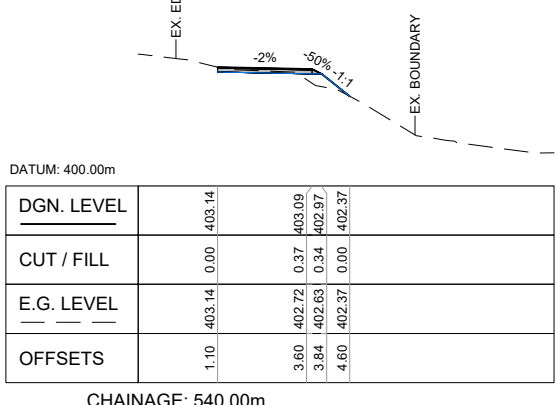
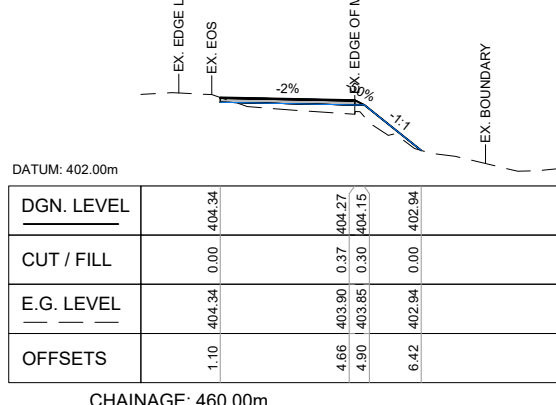
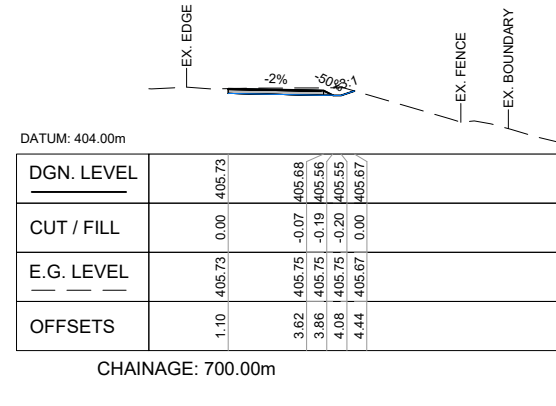
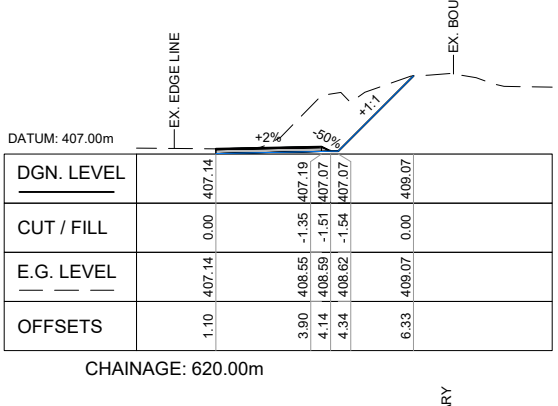
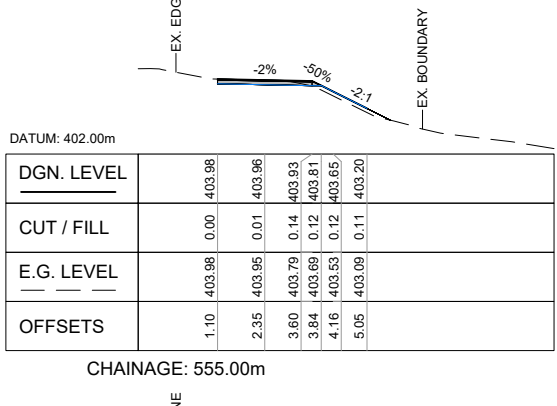
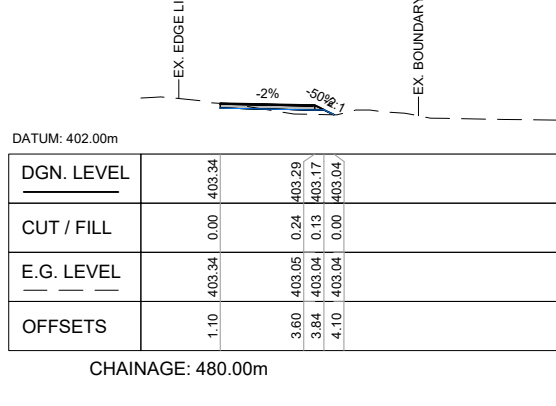
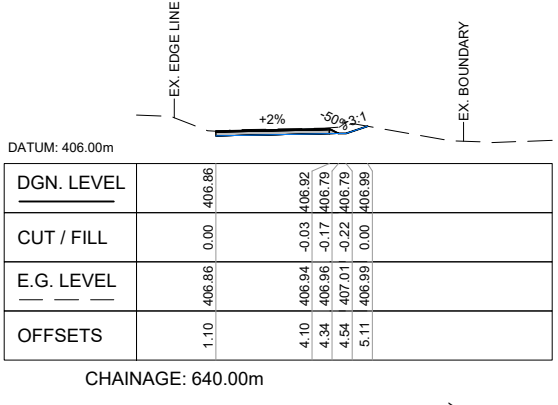
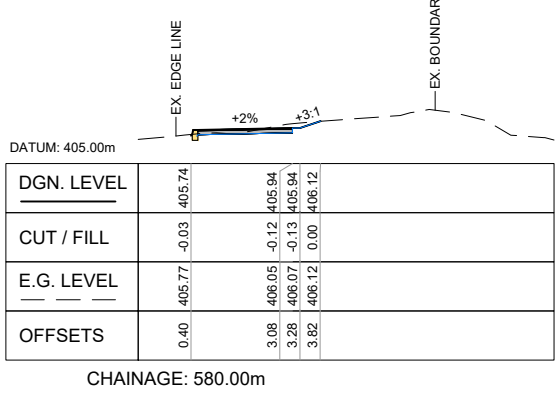
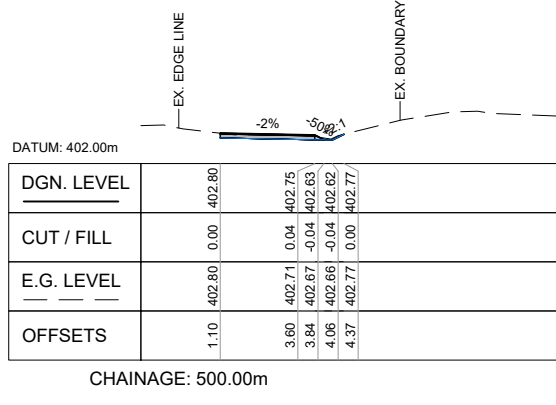
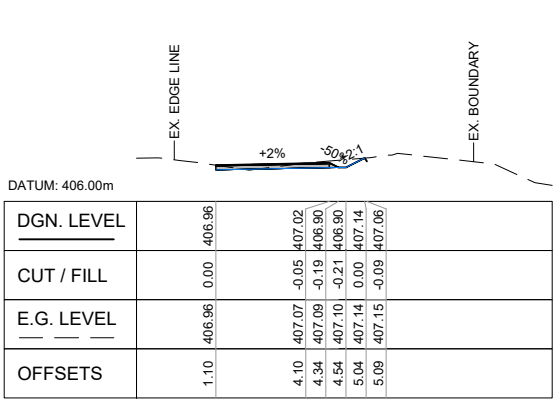
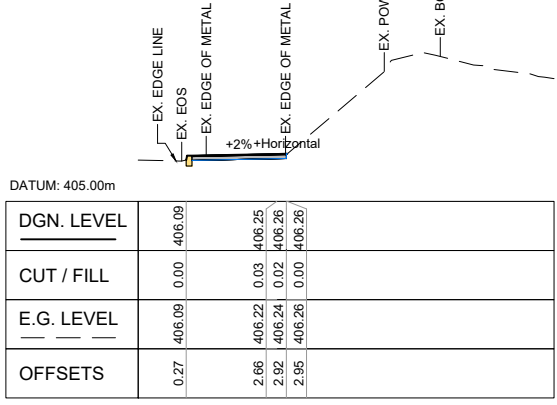
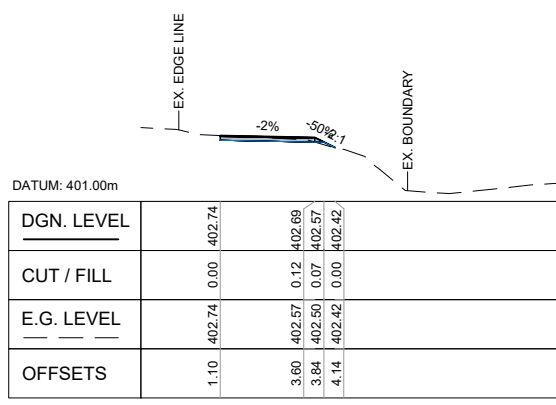
CIVIL

SCALES		ORIGINAL SIZE
1:100 @ A1		A1
DRAWN	DESIGNED	APPROVED
P. FIEREK	P. FIEREK	R. GILL
DRAWING VERIFIED	DESIGN VERIFIED	APPROVED DATE
S. FORBES	S. SHERLAW	2021-08-02

FOR TENDER

PROJECT		
QUEENSTOWN LAKES DISTRICT COUNCIL WAKATIPU ACTIVE TRAVEL WATN STAGE 2 ROUTES - ROUTE C5		
TITLE		
GORGE ROAD (ARTHURS POINT TO INDUSTRIAL PL) SECTION VIEWS - SHEET 2 OF 14		
WSP PROJECT NO.	PROJ-ORIG-VOL-LOC-TYPE	SHEET NO.
6-XQ141.00	6-XQ141-WSP-01-C5-DR	C231
		REVISION
		C

300 mm
200
100
50
0 10 mm



1:100 @ A1
1:200 @ A3

REVISION	AMENDMENT	APPROVED	DATE
A	DETAILED DESIGN ISSUED FOR CLIENT REVIEW	R. G.	2021-08-02
B	DETAILED DESIGN ISSUED FOR CLIENT APPROVAL	R. G.	2021-08-30
C	DETAILED DESIGN ISSUED FOR TENDER	R. G.	2021-10-22



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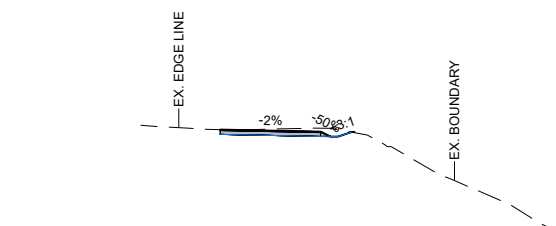
CIVIL

SCALES		ORIGINAL SIZE
1:100 @ A1		A1
DRAWN	DESIGNED	APPROVED
P. FIEREK	P. FIEREK	R. GILL
DRAWING VERIFIED	DESIGN VERIFIED	APPROVED DATE
S. FORBES	S. SHERLAW	2021-08-02

FOR TENDER

PROJECT		SHEET NO.		REVISION
QUEENSTOWN LAKES DISTRICT COUNCIL WAKATIPU ACTIVE TRAVEL WATN STAGE 2 ROUTES - ROUTE C5		C232		C
TITLE		SECTION VIEWS - SHEET 3 OF 14		
GORGE ROAD (ARTHURS POINT TO INDUSTRIAL PL)				
WSP PROJECT NO.	PROJ-ORIG-VOL-LOC-TYPE	SHEET NO.	REVISION	
6-XQ141.00	6-XQ141-WSP-01-C5-DR	C232	C	

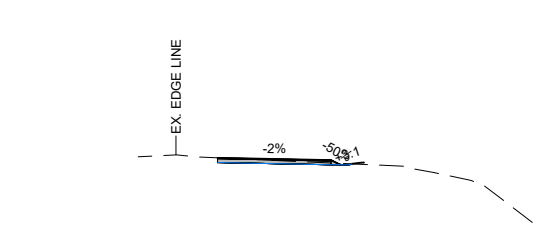
300 mm
200
100
50
0 10 mm



DATUM: 399.00m

DGN. LEVEL	402.41	402.35	402.23	402.22	402.34	402.35
CUT / FILL	0.00	-0.09	-0.21	-0.18	0.00	0.02
E.G. LEVEL	402.41	402.45	402.44	402.41	402.34	402.35
OFFSETS	1.10	3.75	3.99	4.21	4.57	4.66

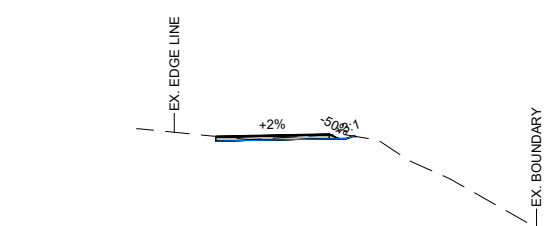
CHAINAGE: 760.00m



DATUM: 400.00m

DGN. LEVEL	402.66	402.60	402.48	402.47	402.53	402.54
CUT / FILL	0.00	0.08	-0.03	-0.03	0.04	0.05
E.G. LEVEL	402.66	402.53	402.51	402.50	402.49	402.49
OFFSETS	1.10	4.10	4.34	4.56	4.90	4.97

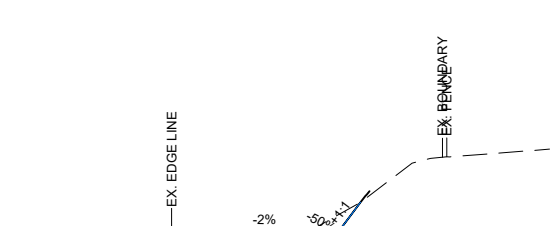
CHAINAGE: 820.00m



DATUM: 399.00m

DGN. LEVEL	402.23	402.29	402.17	402.17	402.24	402.22
CUT / FILL	0.00	0.02	-0.11	-0.10	0.00	0.00
E.G. LEVEL	402.23	402.27	402.28	402.27	402.24	402.22
OFFSETS	1.10	4.10	4.34	4.54	4.74	4.80

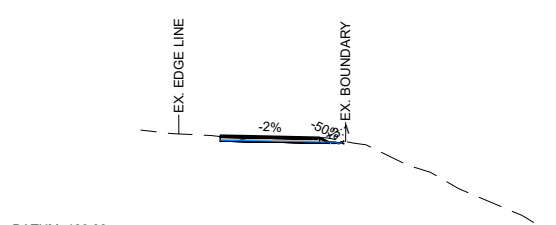
CHAINAGE: 880.00m



DATUM: 401.00m

DGN. LEVEL	401.78	401.73	401.56	401.57	402.49	402.78
CUT / FILL	0.00	-0.09	-0.39	-0.53	0.00	0.12
E.G. LEVEL	401.78	401.81	401.97	402.10	402.49	402.66
OFFSETS	1.10	3.80	4.09	4.32	5.00	5.24

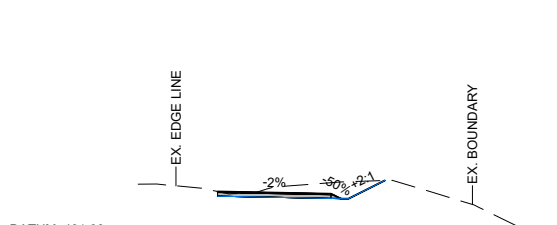
CHAINAGE: 940.00m



DATUM: 400.00m

DGN. LEVEL	402.91	402.90	402.86	402.74	402.69	402.69
CUT / FILL	0.03	0.07	0.01	-0.10	-0.09	-0.07
E.G. LEVEL	402.88	402.83	402.85	402.84	402.78	402.76
OFFSETS	1.10	1.79	3.73	3.97	4.24	4.37

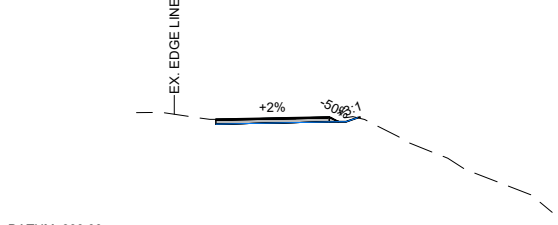
CHAINAGE: 741.47m



DATUM: 401.00m

DGN. LEVEL	402.43	402.37	402.25	402.24	402.72
CUT / FILL	0.00	-0.29	-0.43	-0.45	0.00
E.G. LEVEL	402.43	402.66	402.68	402.69	402.72
OFFSETS	1.10	4.10	4.34	4.56	5.52

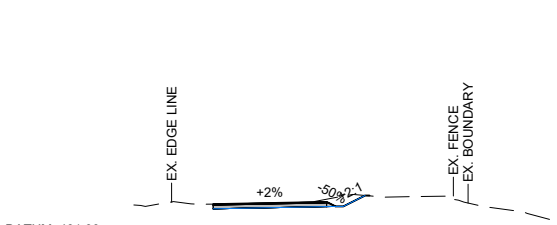
CHAINAGE: 800.00m



DATUM: 399.00m

DGN. LEVEL	402.33	402.39	402.27	402.38	402.39
CUT / FILL	0.00	0.01	-0.11	0.00	0.03
E.G. LEVEL	402.33	402.38	402.36	402.38	402.36
OFFSETS	1.10	4.10	4.34	4.85	4.91

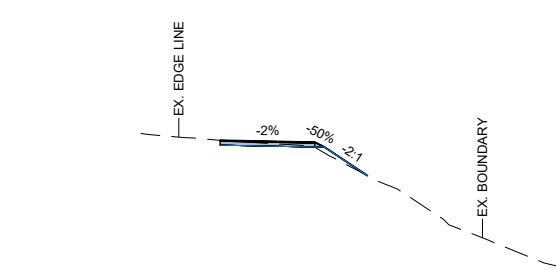
CHAINAGE: 860.00m



DATUM: 401.00m

DGN. LEVEL	402.09	402.15	402.03	402.32	402.32
CUT / FILL	0.00	-0.07	-0.23	0.00	0.01
E.G. LEVEL	402.09	402.22	402.27	402.32	402.31
OFFSETS	1.10	4.10	4.34	5.12	5.24

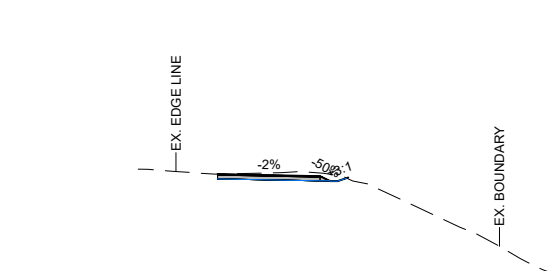
CHAINAGE: 920.00m



DATUM: 400.00m

DGN. LEVEL	404.20	404.15	404.03	403.26
CUT / FILL	0.00	0.13	0.15	0.00
E.G. LEVEL	404.20	404.01	403.87	403.26
OFFSETS	1.10	3.60	3.84	4.99

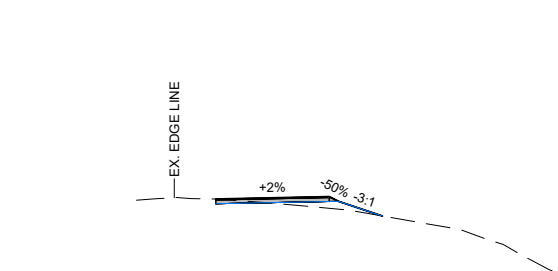
CHAINAGE: 720.00m



DATUM: 399.00m

DGN. LEVEL	402.30	402.25	402.13	402.12	402.20	402.21
CUT / FILL	0.00	-0.08	-0.17	-0.15	0.00	0.04
E.G. LEVEL	402.30	402.33	402.30	402.27	402.20	402.18
OFFSETS	1.10	3.81	4.05	4.27	4.51	4.56

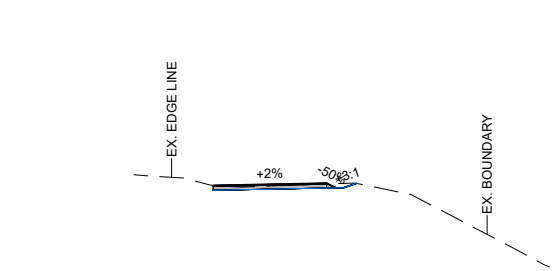
CHAINAGE: 780.00m



DATUM: 400.00m

DGN. LEVEL	402.64	402.70	402.58	402.20
CUT / FILL	0.00	0.31	0.21	0.00
E.G. LEVEL	402.64	402.40	402.38	402.20
OFFSETS	1.10	4.10	4.34	5.50

CHAINAGE: 840.00m



DATUM: 399.00m

DGN. LEVEL	402.00	402.06	401.84	402.06
CUT / FILL	0.00	0.02	-0.11	0.00
E.G. LEVEL	402.00	402.04	402.05	402.06
OFFSETS	1.10	4.10	4.34	4.89

CHAINAGE: 900.00m

1:100 @ A1
1:200 @ A3

REVISION	AMENDMENT	APPROVED	DATE
A	DETAILED DESIGN ISSUED FOR CLIENT REVIEW	R. GILL	2021-08-02
B	DETAILED DESIGN ISSUED FOR CLIENT APPROVAL	R. GILL	2021-08-30
C	DETAILED DESIGN ISSUED FOR TENDER	R. GILL	2021-10-22



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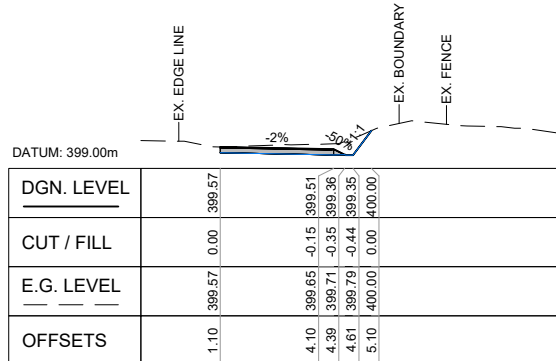
CIVIL

SCALES		ORIGINAL SIZE
1:100 @ A1		A1
DRAWN	DESIGNED	APPROVED
P. FIEREK	P. FIEREK	R. GILL
DRAWING VERIFIED	DESIGN VERIFIED	APPROVED DATE
S. FORBES	S. SHERLAW	2021-08-02

FOR TENDER

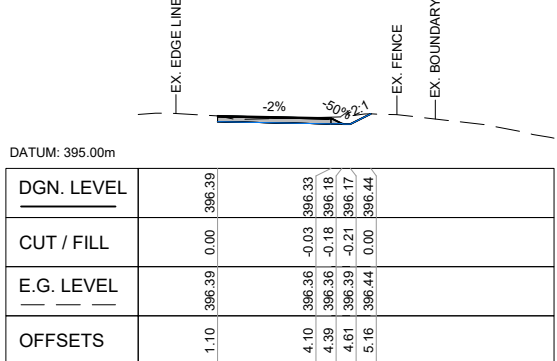
PROJECT			
QUEENSTOWN LAKES DISTRICT COUNCIL WAKATIPU ACTIVE TRAVEL WATN STAGE 2 ROUTES - ROUTE C5			
TITLE GORGE ROAD (ARTHURS POINT TO INDUSTRIAL PL) SECTION VIEWS - SHEET 4 OF 14			
WSP PROJECT NO.	PROJ-ORIG-VOL-LOC-TYPE	SHEET NO.	REVISION
6-XQ141.00	6-XQ141-WSP-01-C5-DR	C233	C

300 mm
200
100
50
0 10 mm



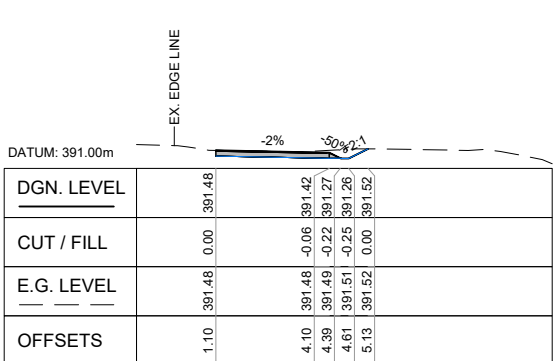
DGN. LEVEL	399.57	399.57	399.51	399.36	400.00
CUT / FILL	0.00	-0.15	-0.35	-0.44	0.00
E.G. LEVEL	399.57	399.51	399.36	399.35	400.00
OFFSETS	1.10	4.10	4.39	4.61	5.10

CHAINAGE: 1000.00m



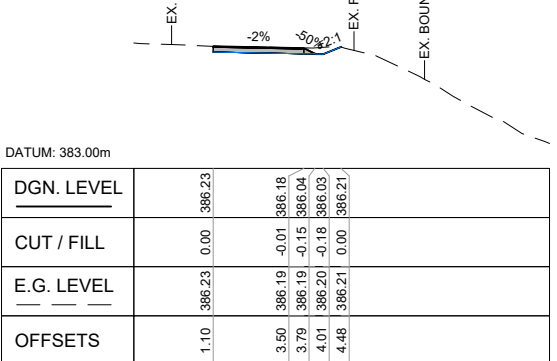
DGN. LEVEL	396.39	396.33	396.18	396.17	396.44
CUT / FILL	0.00	-0.03	-0.18	-0.21	0.00
E.G. LEVEL	396.39	396.33	396.18	396.17	396.44
OFFSETS	1.10	4.10	4.39	4.61	5.16

CHAINAGE: 1060.00m



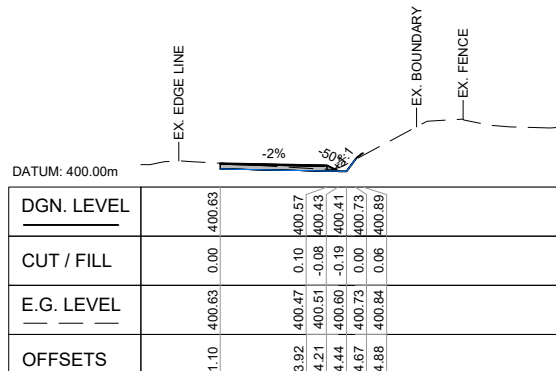
DGN. LEVEL	391.48	391.42	391.27	391.26	391.52
CUT / FILL	0.00	-0.06	-0.22	-0.25	0.00
E.G. LEVEL	391.48	391.42	391.27	391.26	391.52
OFFSETS	1.10	4.10	4.39	4.61	5.13

CHAINAGE: 1120.00m



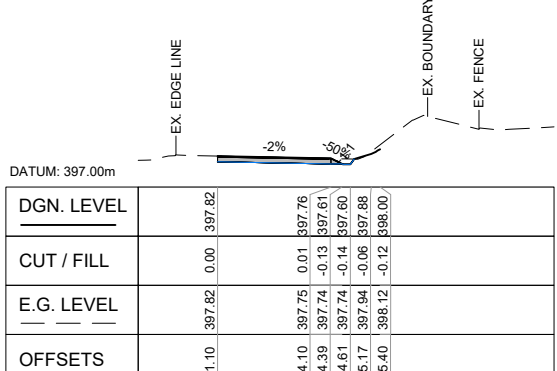
DGN. LEVEL	386.23	386.18	386.04	386.03	386.21
CUT / FILL	0.00	-0.01	-0.15	-0.18	0.00
E.G. LEVEL	386.23	386.18	386.04	386.03	386.21
OFFSETS	1.10	3.50	3.79	4.01	4.48

CHAINAGE: 1180.00m



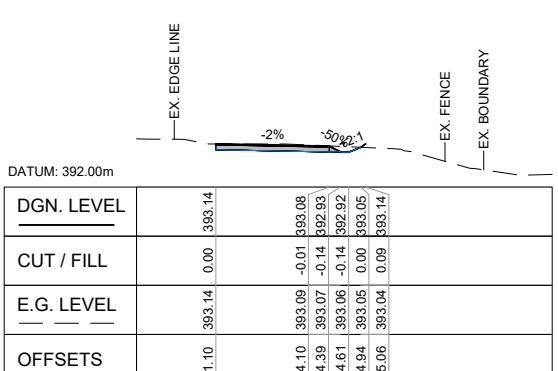
DGN. LEVEL	400.63	400.57	400.43	400.41	400.73	400.89
CUT / FILL	0.00	0.10	-0.08	-0.19	0.00	0.06
E.G. LEVEL	400.63	400.47	400.51	400.60	400.73	400.89
OFFSETS	1.10	3.92	4.21	4.44	4.67	4.88

CHAINAGE: 980.00m



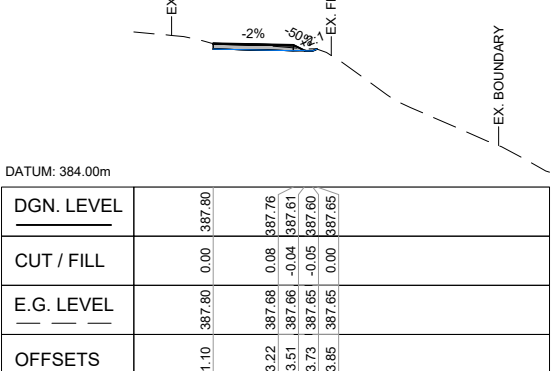
DGN. LEVEL	397.82	397.76	397.61	397.60	397.88	398.00
CUT / FILL	0.00	0.01	-0.13	-0.14	-0.06	-0.12
E.G. LEVEL	397.82	397.75	397.74	397.74	397.94	398.12
OFFSETS	1.10	4.10	4.39	4.61	5.17	5.40

CHAINAGE: 1040.00m



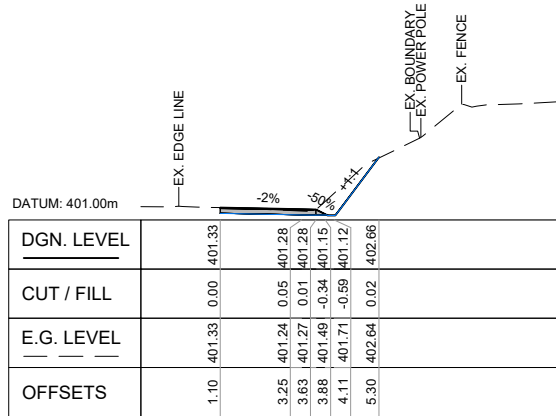
DGN. LEVEL	393.14	393.08	392.93	392.92	393.05	393.14
CUT / FILL	0.00	-0.01	-0.14	-0.14	0.00	0.09
E.G. LEVEL	393.14	393.09	393.07	393.06	393.05	393.14
OFFSETS	1.10	4.10	4.39	4.61	4.94	5.06

CHAINAGE: 1100.00m



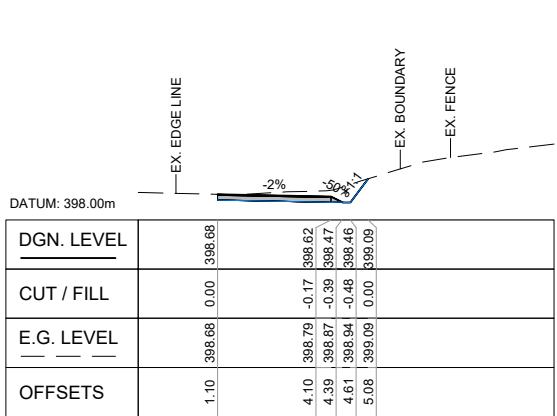
DGN. LEVEL	387.80	387.76	387.61	387.60	387.65
CUT / FILL	0.00	0.06	-0.04	-0.05	0.00
E.G. LEVEL	387.80	387.68	387.66	387.65	387.65
OFFSETS	1.10	3.22	3.51	3.73	3.85

CHAINAGE: 1160.00m



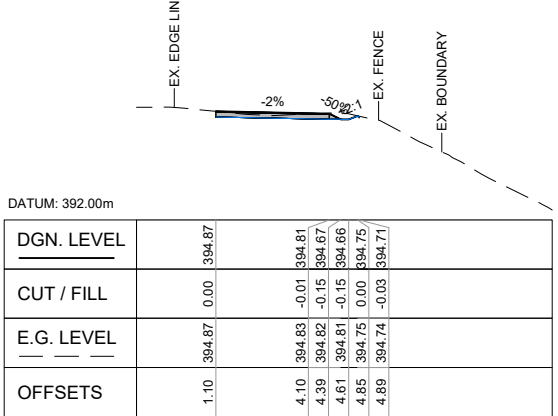
DGN. LEVEL	401.33	401.28	401.28	401.15	401.12	402.66
CUT / FILL	0.00	0.05	0.01	-0.34	-0.59	0.02
E.G. LEVEL	401.33	401.24	401.27	401.49	401.71	402.64
OFFSETS	1.10	3.25	3.63	3.88	4.11	5.30

CHAINAGE: 958.30m



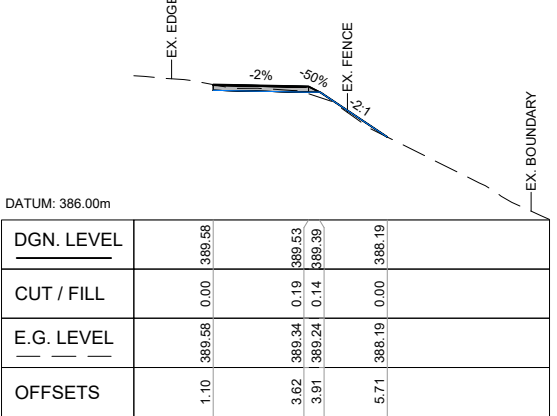
DGN. LEVEL	398.68	398.62	398.47	398.46	399.09
CUT / FILL	0.00	-0.17	-0.39	-0.48	0.00
E.G. LEVEL	398.68	398.79	398.87	398.94	399.09
OFFSETS	1.10	4.10	4.39	4.61	5.08

CHAINAGE: 1020.00m



DGN. LEVEL	394.87	394.81	394.67	394.66	394.75	394.71
CUT / FILL	0.00	-0.01	-0.15	-0.15	0.00	-0.03
E.G. LEVEL	394.87	394.83	394.82	394.81	394.75	394.74
OFFSETS	1.10	4.10	4.39	4.61	4.85	4.89

CHAINAGE: 1080.00m



DGN. LEVEL	389.58	389.53	389.39	389.39	388.19
CUT / FILL	0.00	0.19	0.14	0.14	0.00
E.G. LEVEL	389.58	389.34	389.24	389.39	388.19
OFFSETS	1.10	3.62	3.91	3.91	5.71

CHAINAGE: 1140.00m

1:100 @ A1
1:200 @ A3

REVISION	AMENDMENT	APPROVED	DATE
A	DETAILED DESIGN ISSUED FOR CLIENT REVIEW	R. GILL	2021-08-02
B	DETAILED DESIGN ISSUED FOR CLIENT APPROVAL	R. GILL	2021-08-30
C	DETAILED DESIGN ISSUED FOR TENDER	R. GILL	2021-10-22



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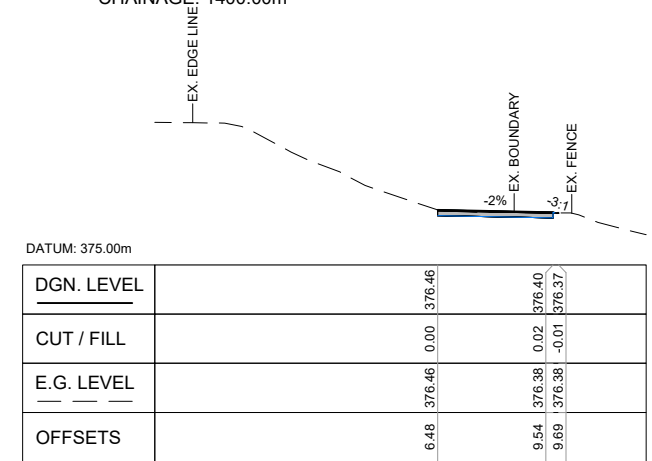
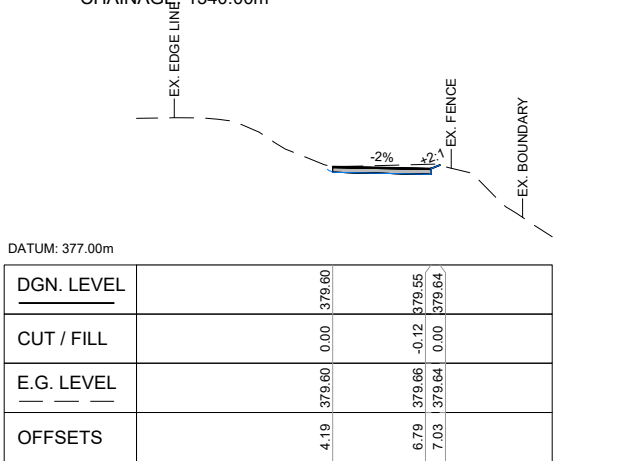
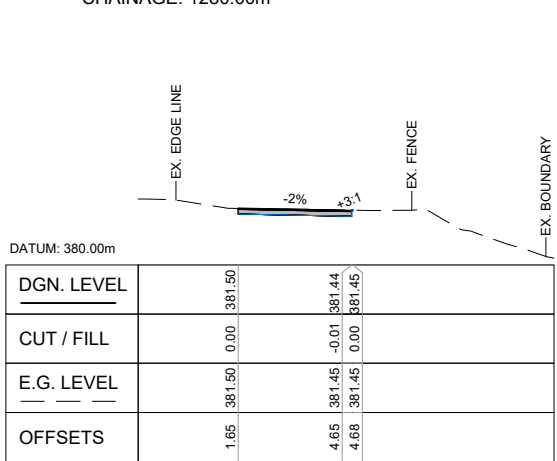
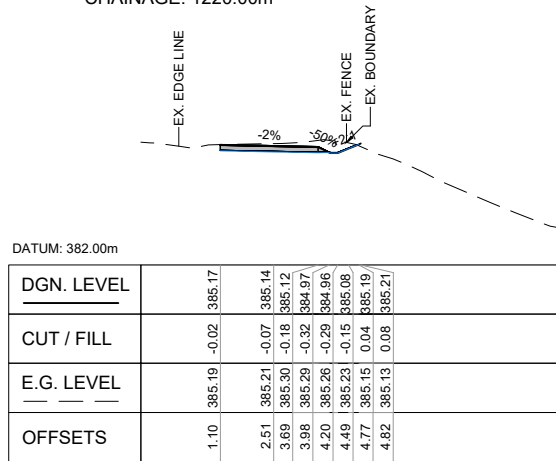
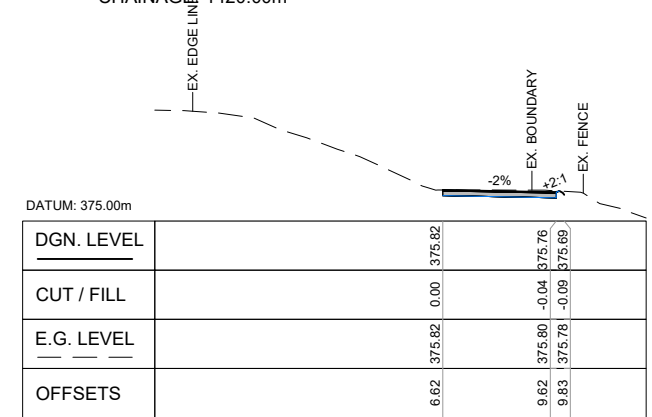
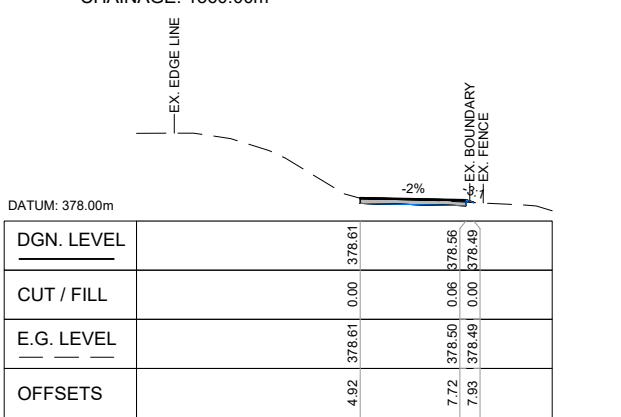
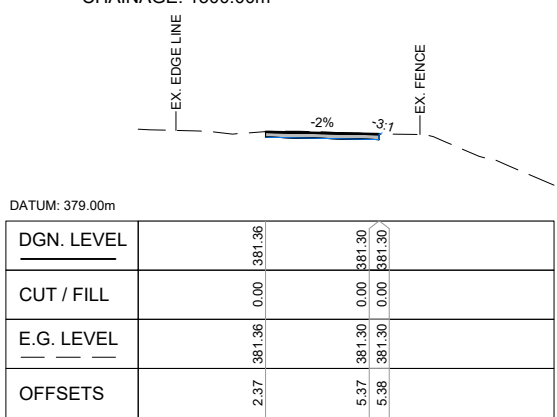
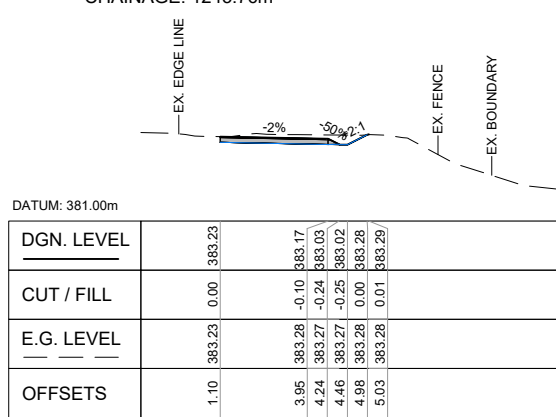
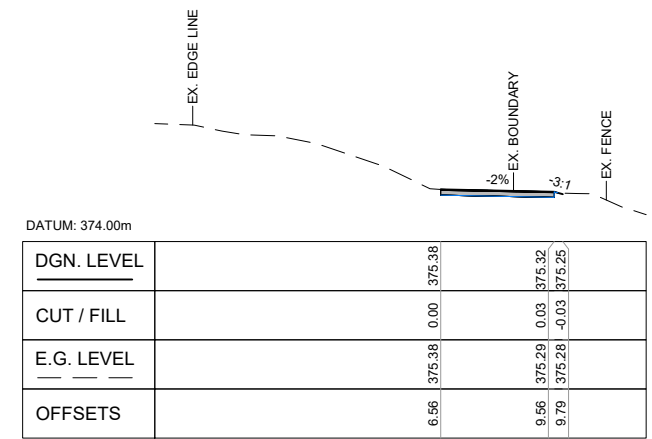
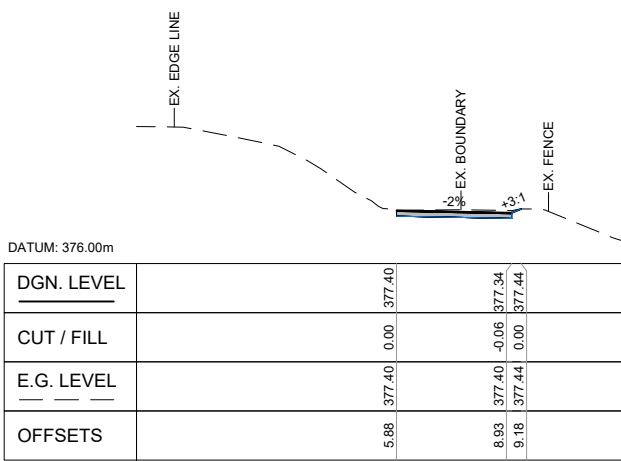
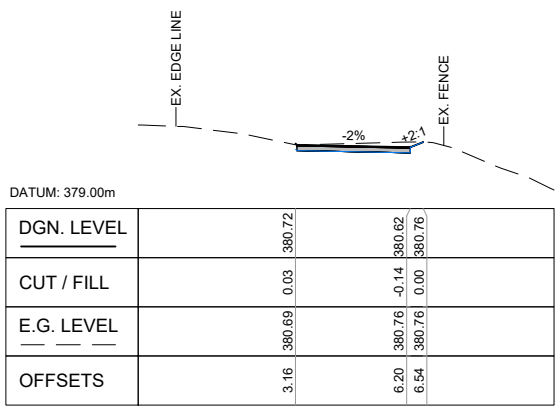
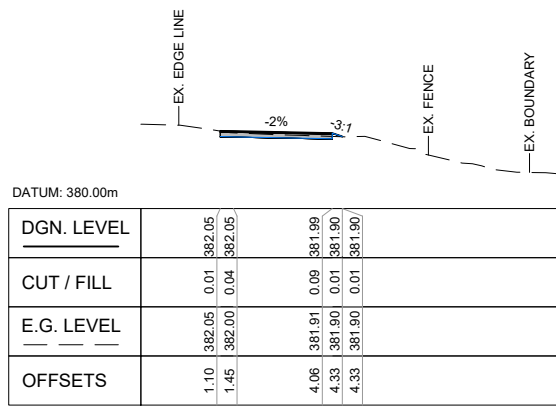
CIVIL

SCALES		ORIGINAL SIZE
1:100 @ A1		A1
DRAWN	DESIGNED	APPROVED
P. FIEREK	P. FIEREK	R. GILL
DRAWING VERIFIED	DESIGN VERIFIED	APPROVED DATE
S. FORBES	S. SHERLAW	2021-08-02

FOR TENDER

PROJECT		
QUEENSTOWN LAKES DISTRICT COUNCIL WAKATIPU ACTIVE TRAVEL WATN STAGE 2 ROUTES - ROUTE C5		
TITLE		
GORGE ROAD (ARTHURS POINT TO INDUSTRIAL PL) SECTION VIEWS - SHEET 5 OF 14		
WSP PROJECT NO.	PROJ-ORIG-VOL-LOC-TYPE	SHEET NO.
6-XQ141.00	6-XQ141-WSP-01-C5-DR	C234
REVISION		
C		

300 mm
200
100
50
0 10 mm



1:100 @ A1
1:200 @ A3

REVISION	AMENDMENT	APPROVED	DATE
A	DETAILED DESIGN ISSUED FOR CLIENT REVIEW	R. G.	2021-08-02
B	DETAILED DESIGN ISSUED FOR CLIENT APPROVAL	R. G.	2021-08-30
C	DETAILED DESIGN ISSUED FOR TENDER	R. G.	2021-10-22



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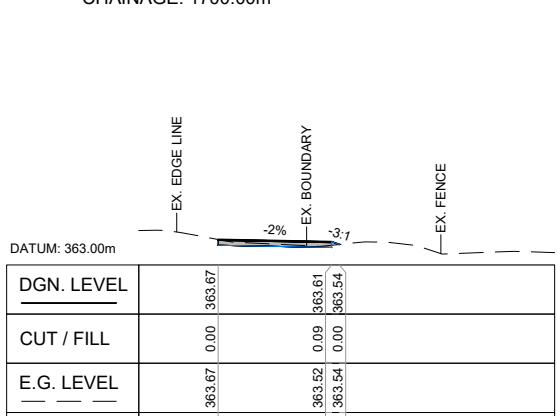
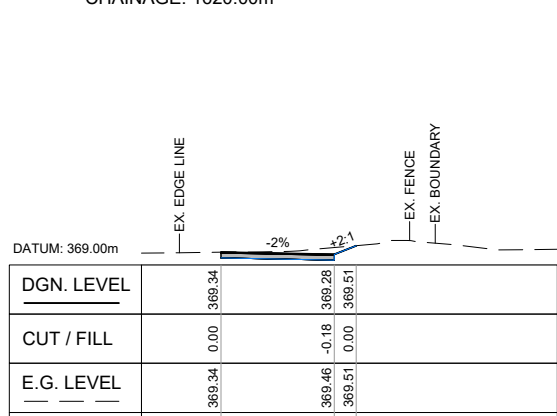
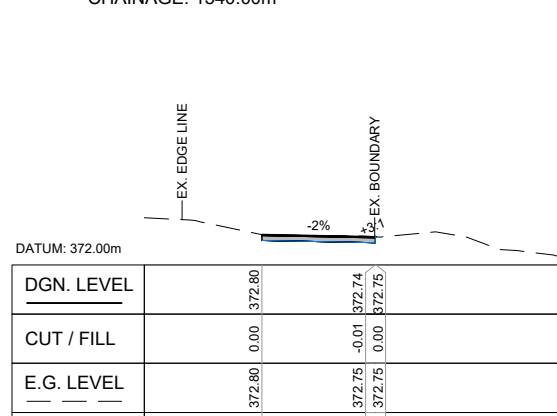
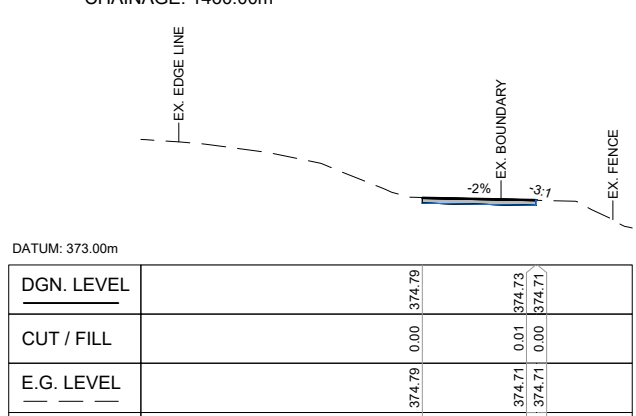
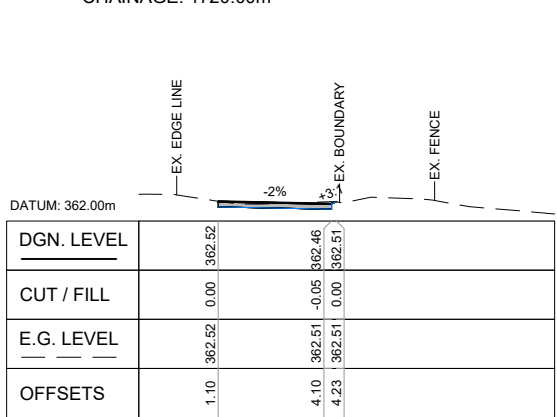
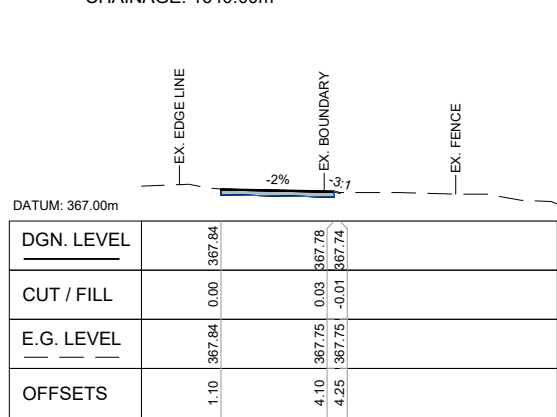
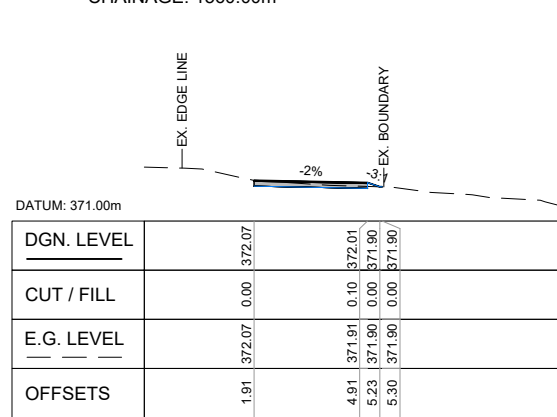
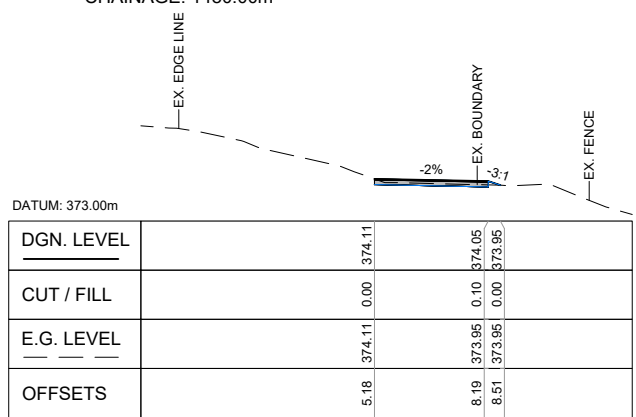
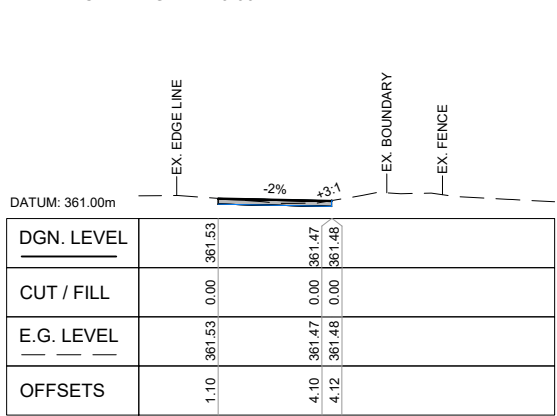
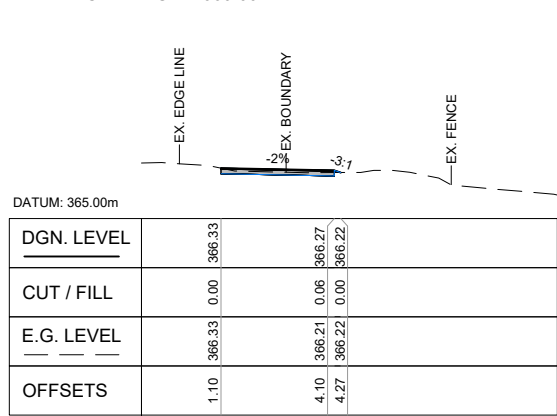
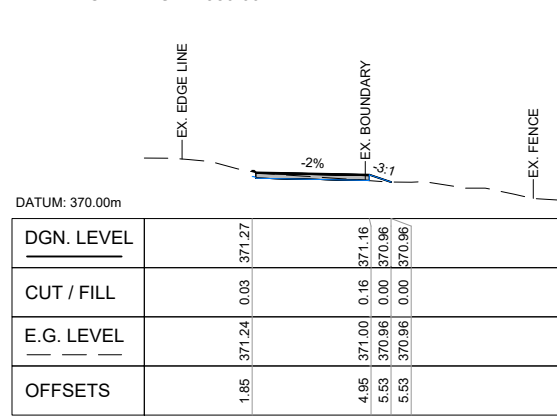
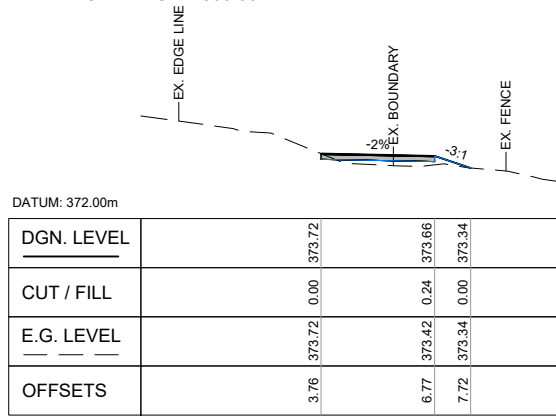
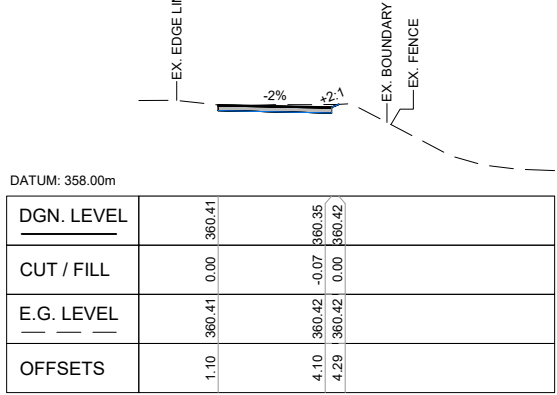
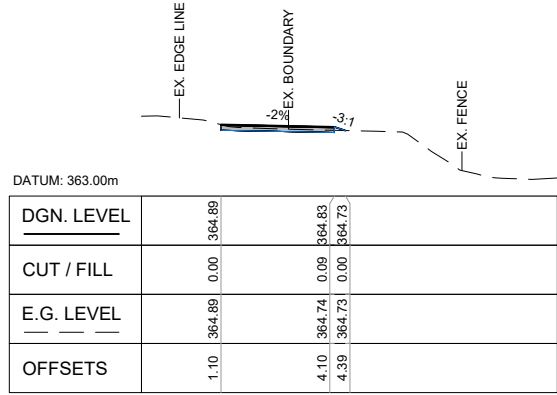
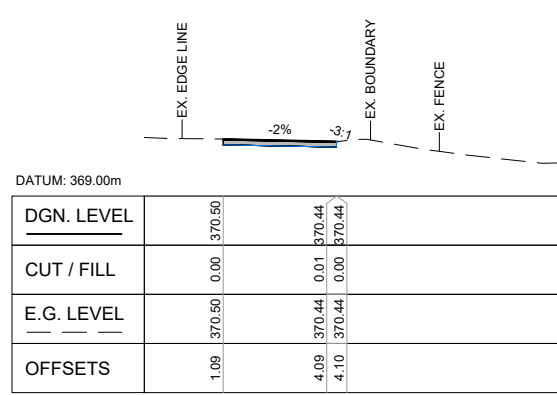
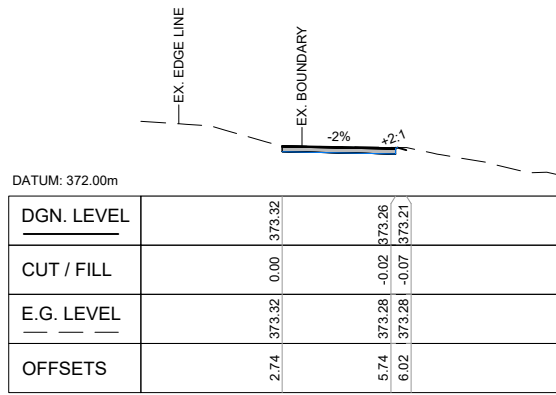
CIVIL

SCALES		ORIGINAL SIZE
1:100 @ A1		A1
DRAWN	DESIGNED	APPROVED
P. FIEREK	P. FIEREK	R. GILL
DRAWING VERIFIED	DESIGN VERIFIED	APPROVED DATE
S. FORBES	S. SHERLAW	2021-08-02

FOR TENDER

PROJECT			
QUEENSTOWN LAKES DISTRICT COUNCIL WAKATIPU ACTIVE TRAVEL WATN STAGE 2 ROUTES - ROUTE C5			
TITLE			
GORGE ROAD (ARTHURS POINT TO INDUSTRIAL PL) SECTION VIEWS - SHEET 6 OF 14			
WSP PROJECT NO.	PROJ-ORIG-VOL-LOC-TYPE	SHEET NO.	REVISION
6-XQ141.00	6-XQ141-WSP-01-C5-DR	C235	C

300 mm
200
100
50
0 10 mm



1:100 @ A1
1:200 @ A3

REVISION	AMENDMENT	APPROVED	DATE
A	DETAILED DESIGN ISSUED FOR CLIENT REVIEW	R. G.	2021-08-02
B	DETAILED DESIGN ISSUED FOR CLIENT APPROVAL	R. G.	2021-08-30
C	DETAILED DESIGN ISSUED FOR TENDER	R. G.	2021-10-22



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CIVIL

SCALES		ORIGINAL SIZE
1:100 @ A1		A1
DRAWN	DESIGNED	APPROVED
P. FIEREK	P. FIEREK	R. GILL
DRAWING VERIFIED	DESIGN VERIFIED	APPROVED DATE
S. FORBES	S. SHERLAW	2021-08-02

FOR TENDER

PROJECT		
QUEENSTOWN LAKES DISTRICT COUNCIL WAKATIPU ACTIVE TRAVEL WATN STAGE 2 ROUTES - ROUTE C5		
TITLE		
GORGE ROAD (ARTHURS POINT TO INDUSTRIAL PL) SECTION VIEWS - SHEET 7 OF 14		
WSP PROJECT NO.	PROJ-ORIG-VOL-LOC-TYPE	SHEET NO.
6-XQ141.00	6-XQ141-WSP-01-C5-DR	C236
		REVISION
		C

300 mm
200
100
50
0 10 mm

DATUM: 356.00m

DGN. LEVEL		356.84		356.80
CUT / FILL		0.00		0.13
E.G. LEVEL		356.84		356.77
OFFSETS		1.10		4.10

CHAINAGE: 1820.00m

DATUM: 353.00m

DGN. LEVEL		355.36		355.30	355.41
CUT / FILL		0.00		-0.10	0.00
E.G. LEVEL		355.36		355.40	355.41
OFFSETS		3.51		6.51	6.78

CHAINAGE: 1900.00m

DATUM: 355.00m

DGN. LEVEL		356.09		356.03	355.87
CUT / FILL		0.00		0.08	0.00
E.G. LEVEL		356.09		355.94	355.87
OFFSETS		2.37		5.37	5.76

CHAINAGE: 1980.00m

DATUM: 352.00m

DGN. LEVEL		354.46		354.40	354.39
CUT / FILL		0.00		0.02	0.00
E.G. LEVEL		354.46		354.38	354.38
OFFSETS		1.50		4.18	4.29

CHAINAGE: 2060.00m

DATUM: 357.00m

DGN. LEVEL		357.73		357.67	357.68
CUT / FILL		0.00		0.01	0.01
E.G. LEVEL		357.73		357.67	357.67
OFFSETS		1.10		4.10	4.19

CHAINAGE: 1800.00m

DATUM: 352.00m

DGN. LEVEL		355.20		355.14	354.91
CUT / FILL		0.00		0.05	0.00
E.G. LEVEL		355.20		355.10	354.91
OFFSETS		3.10		6.10	6.69

CHAINAGE: 1880.00m

DATUM: 355.00m

DGN. LEVEL		356.02		355.96	355.80
CUT / FILL		0.00		0.09	0.00
E.G. LEVEL		356.02		355.87	355.80
OFFSETS		2.61		5.61	6.02

CHAINAGE: 1960.00m

DATUM: 351.00m

DGN. LEVEL		354.98		354.92	354.96
CUT / FILL		0.00		-0.04	0.00
E.G. LEVEL		354.98		354.96	354.96
OFFSETS		2.09		5.04	5.14

CHAINAGE: 2040.00m

DATUM: 358.00m

DGN. LEVEL		358.57		358.51	358.75
CUT / FILL		0.00		-0.11	0.00
E.G. LEVEL		358.57		358.62	358.75
OFFSETS		1.10		4.10	4.68

CHAINAGE: 1780.00m

DATUM: 354.00m

DGN. LEVEL		355.41		355.35	355.37
CUT / FILL		0.00		0.00	0.02
E.G. LEVEL		355.41		355.35	355.37
OFFSETS		2.68		5.68	5.74

CHAINAGE: 1860.00m

DATUM: 355.00m

DGN. LEVEL		355.99		355.93	355.87
CUT / FILL		0.00		0.06	0.00
E.G. LEVEL		355.99		355.87	355.87
OFFSETS		2.91		5.91	6.06

CHAINAGE: 1940.00m

DATUM: 353.00m

DGN. LEVEL		355.40		355.34	355.43
CUT / FILL		0.00		-0.09	0.00
E.G. LEVEL		355.40		355.43	355.44
OFFSETS		2.34		5.40	5.65

CHAINAGE: 2020.00m

DATUM: 357.00m

DGN. LEVEL		359.44		359.38	359.49
CUT / FILL		0.00		-0.10	0.00
E.G. LEVEL		359.44		359.48	359.49
OFFSETS		1.10		4.10	4.37

CHAINAGE: 1760.00m

DATUM: 354.00m

DGN. LEVEL		356.04		355.98	355.93
CUT / FILL		0.00		0.04	0.00
E.G. LEVEL		356.04		355.93	355.93
OFFSETS		1.99		4.99	5.12

CHAINAGE: 1840.00m

DATUM: 354.00m

DGN. LEVEL		355.58		355.52	355.63
CUT / FILL		0.00		-0.10	0.00
E.G. LEVEL		355.58		355.62	355.63
OFFSETS		3.53		6.53	6.79

CHAINAGE: 1920.00m

DATUM: 354.00m

DGN. LEVEL		355.67		355.61	355.67
CUT / FILL		0.00		0.06	0.00
E.G. LEVEL		355.67		355.61	355.67
OFFSETS		2.27		5.28	5.39

CHAINAGE: 2000.00m

1:100 @ A1
1:200 @ A3

REVISION	AMENDMENT	APPROVED	DATE
A	DETAILED DESIGN ISSUED FOR CLIENT REVIEW	R. GILL	2021-08-02
B	DETAILED DESIGN ISSUED FOR CLIENT APPROVAL	R. GILL	2021-08-30
C	DETAILED DESIGN ISSUED FOR TENDER	R. GILL	2021-10-22



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New Zealand

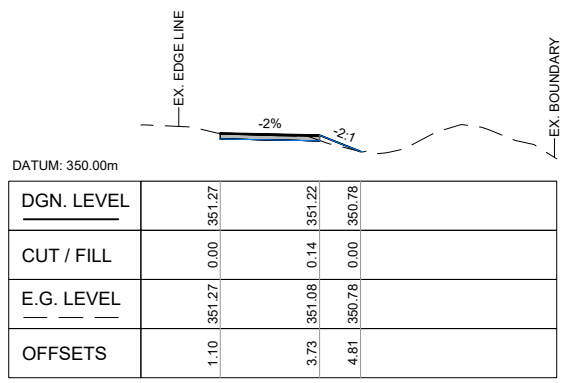
CIVIL

SCALES		ORIGINAL SIZE
1:100 @ A1		A1
DRAWN	DESIGNED	APPROVED
P. FIEREK	P. FIEREK	R. GILL
DRAWING VERIFIED	DESIGN VERIFIED	APPROVED DATE
S. FORBES	S. SHERLAW	2021-08-02

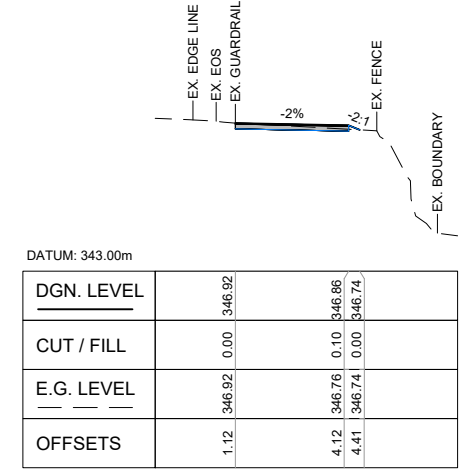
FOR TENDER

PROJECT			
QUEENSTOWN LAKES DISTRICT COUNCIL WAKATIPU ACTIVE TRAVEL WATN STAGE 2 ROUTES - ROUTE C5			
TITLE GORGE ROAD (ARTHURS POINT TO INDUSTRIAL PL) SECTION VIEWS - SHEET 8 OF 14			
WSP PROJECT NO.	PROJ-ORIG-VOL-LOC-TYPE	SHEET NO.	REVISION
6-XQ141.00	6-XQ141-WSP-01-C5-DR	C237	C

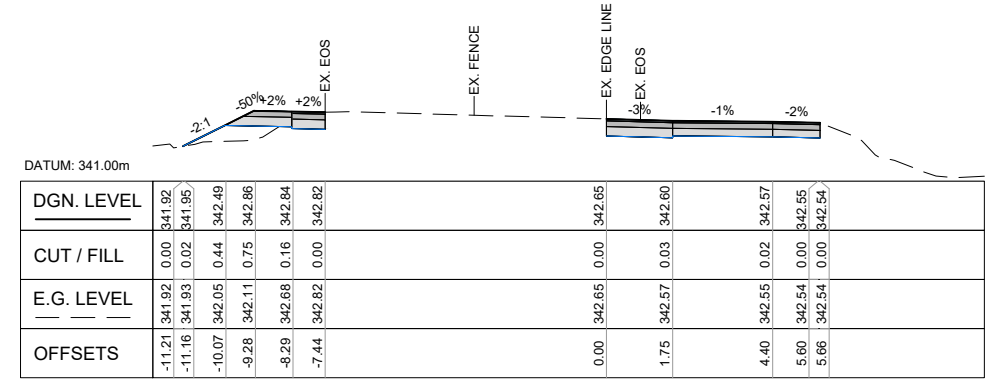
300 mm
200
100
50
0 10 mm



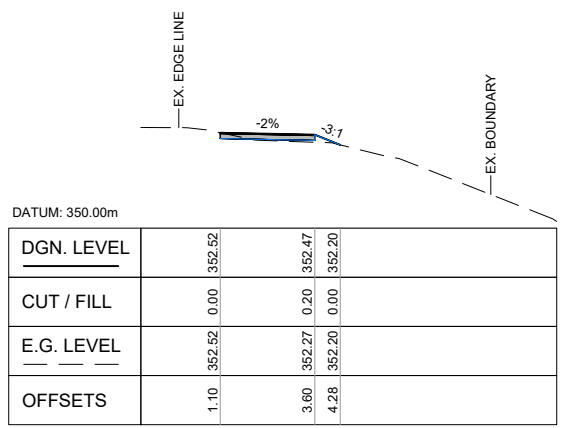
CHAINAGE: 2120.00m



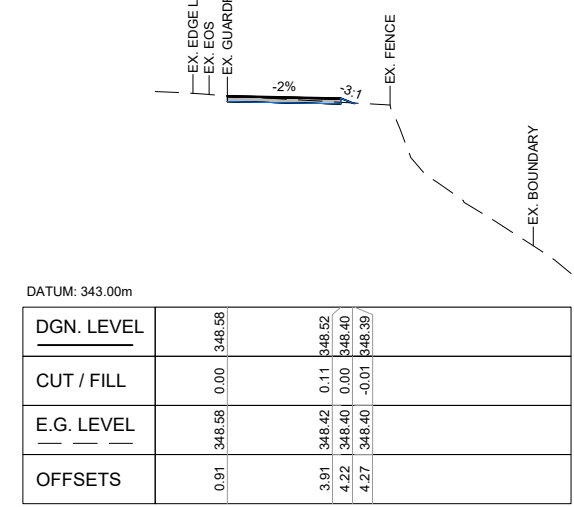
CHAINAGE: 2160.00m



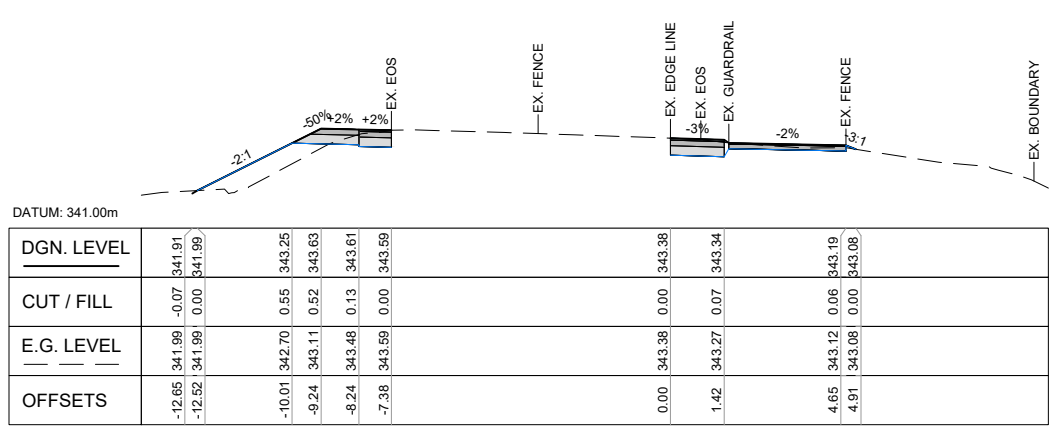
CHAINAGE: 2230.00m



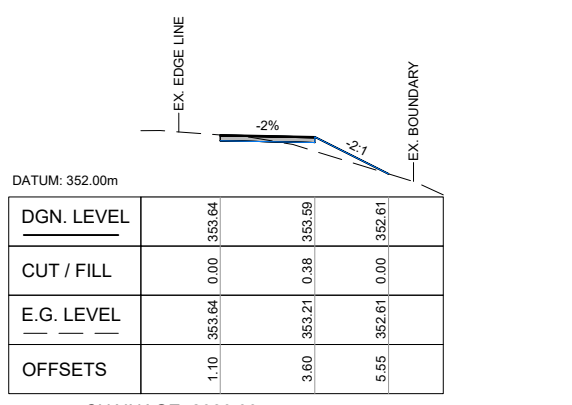
CHAINAGE: 2100.00m



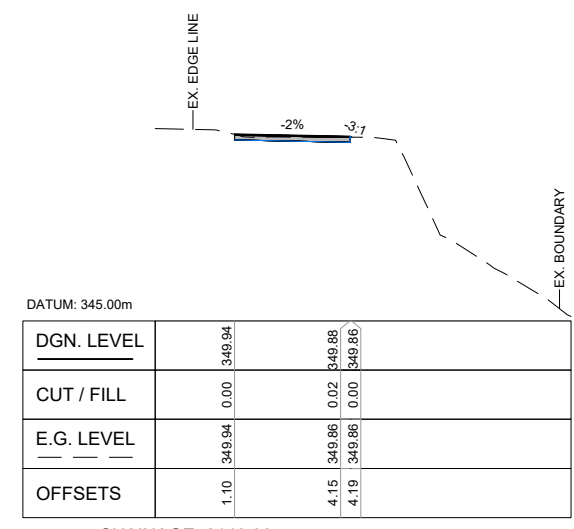
CHAINAGE: 2160.00m



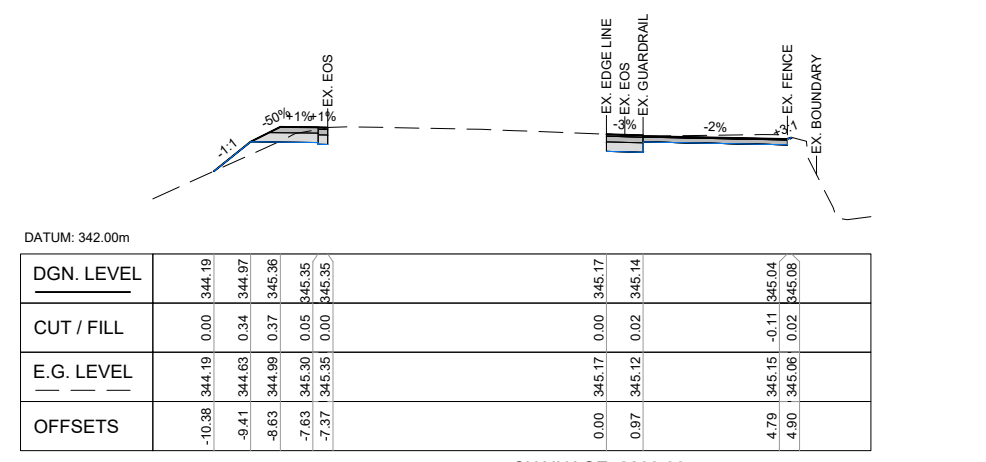
CHAINAGE: 2220.00m



CHAINAGE: 2080.00m



CHAINAGE: 2140.00m



CHAINAGE: 2200.00m

1:100 @ A1
1:200 @ A3

REVISION	AMENDMENT	APPROVED	DATE
A	DETAILED DESIGN ISSUED FOR CLIENT REVIEW	R. G.	2021-08-02
B	DETAILED DESIGN ISSUED FOR CLIENT APPROVAL	R. G.	2021-08-30
C	DETAILED DESIGN ISSUED FOR TENDER	R. G.	2021-10-22



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New Zealand

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SCALES	DESIGNED	APPROVED	ORIGINAL SIZE
1:100 @ A1	P. FIEREK	R. GILL	A1
DRAWING VERIFIED	DESIGN VERIFIED	APPROVED DATE	
S.FORBES	S.SHERLAW	2021-08-02	

FOR TENDER

PROJECT			
QUEENSTOWN LAKES DISTRICT COUNCIL WAKATIPU ACTIVE TRAVEL WATN STAGE 2 ROUTES - ROUTE C5			
TITLE			
GORGE ROAD (ARTHURS POINT TO INDUSTRIAL PL) SECTION VIEWS - SHEET 9 OF 14			
WSP PROJECT NO.	PROJ-ORIG-VOL-LOC-TYPE	SHEET NO.	REVISION
6-XQ141.00	6-XQ141-WSP-01-C5-DR	C238	C

0 10 mm 50 100 200 300 mm

DATUM: 338.00m

DGN. LEVEL	CUT / FILL	E.G. LEVEL	OFFSETS
339.63	0.00	339.63	-9.53
339.62	0.00	339.62	-9.38
339.67	-0.09	339.58	-9.74
339.84	0.05	339.89	-8.48
339.92	0.11	340.03	-7.77
340.05	0.01	340.06	-7.48
340.08	0.00	340.08	
340.39	0.00	340.39	
340.42	0.12	340.42	1.31
340.51	0.29	340.51	4.55
340.55	0.32	340.55	5.69
340.63	0.48	340.63	8.45
340.67	0.51	340.67	10.57
340.69	0.50	340.69	11.45
340.96	0.39	340.96	11.85
340.23	0.00	340.23	12.83

CHAINAGE: 2280.00m

DATUM: 340.00m

DGN. LEVEL	CUT / FILL	E.G. LEVEL	OFFSETS
340.53	-0.04	340.53	-9.93
340.34	-0.29	340.34	-9.36
340.46	-0.17	340.46	-9.06
340.77	0.05	340.77	-8.50
340.79	0.00	340.79	-7.84
340.80	0.00	340.80	-7.50
341.00	0.00	341.00	
341.06	0.13	341.06	3.27
341.10	0.16	341.10	4.97
341.16	0.27	341.16	6.90
341.19	0.23	341.19	7.92
341.22	0.04	341.22	9.90
341.23	-0.07	341.23	10.93
341.31	-0.02	341.31	11.17
341.36	0.00	341.36	11.31

CHAINAGE: 2265.00m

DATUM: 340.00m

DGN. LEVEL	CUT / FILL	E.G. LEVEL	OFFSETS
341.03	0.00	341.03	-9.68
341.01	-0.02	341.01	-9.64
341.03	-0.08	341.03	-9.31
341.36	0.07	341.36	-8.46
341.37	0.00	341.37	-7.65
341.41	0.00	341.41	
341.41	0.01	341.41	0.76
341.42	0.05	341.42	4.10
341.44	0.05	341.44	4.89
341.44	0.04	341.44	5.39
341.46	-0.04	341.46	7.60
341.56	0.00	341.56	8.51
341.98	-0.02	341.98	12.20

CHAINAGE: 2253.50m

DATUM: 340.00m

DGN. LEVEL	CUT / FILL	E.G. LEVEL	OFFSETS
341.47	0.00	341.47	-9.83
341.42	-0.09	341.42	-9.65
341.81	0.14	341.81	-8.86
341.80	0.02	341.80	-7.86
341.80	0.00	341.80	-7.60
341.74	0.00	341.74	
341.71	0.07	341.71	2.54
341.70	0.07	341.70	2.93
341.71	0.24	341.71	5.04
341.71	0.34	341.71	5.36
341.80	0.32	341.80	5.68
340.89	0.00	340.89	7.82

CHAINAGE: 2245.73m

DATUM: 337.00m

DGN. LEVEL	CUT / FILL	E.G. LEVEL	OFFSETS
338.62	0.00	338.62	0.88
338.63	0.21	338.63	1.42
338.64	0.43	338.64	1.83
338.36	0.41	338.36	2.52
337.80	0.13	337.80	3.62
337.65	0.00	337.65	3.90

CHAINAGE: 2333.50m

DATUM: 337.00m

DGN. LEVEL	CUT / FILL	E.G. LEVEL	OFFSETS
338.94	0.00	338.94	0.85
338.99	0.32	338.99	2.01
339.00	0.40	339.00	2.29
339.03	0.63	339.03	3.11
338.74	0.85	338.74	3.90
338.55	0.69	338.55	4.27
337.81	0.00	337.81	5.75

CHAINAGE: 2320.00m

DATUM: 338.00m

DGN. LEVEL	CUT / FILL	E.G. LEVEL	OFFSETS
339.52	0.00	339.52	0.48
339.62	0.48	339.62	3.89
339.62	1.02	339.62	4.93
339.25	0.42	339.25	5.70
339.00	0.00	339.00	6.20
338.99	-0.01	338.99	6.21

CHAINAGE: 2300.00m

1:100 @ A1
1:200 @ A3

REVISION	AMENDMENT	APPROVED	DATE
A	DETAILED DESIGN ISSUED FOR CLIENT REVIEW	R.G.	2021-08-02
B	DETAILED DESIGN ISSUED FOR CLIENT APPROVAL	R.G.	2021-08-30
C	DETAILED DESIGN ISSUED FOR TENDER	R.G.	2021-10-22



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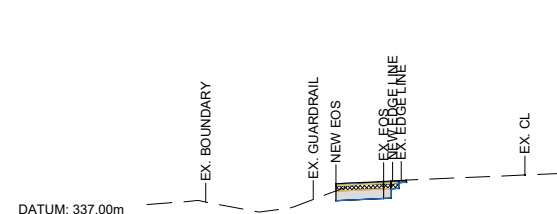
CIVIL

SCALES	DESIGNED	APPROVED	ORIGINAL SIZE
1:100 @ A1	P. FIEREK	R. GILL	A1
	P. FIEREK	R. GILL	
DRAWING VERIFIED	DESIGN VERIFIED	APPROVED DATE	
S.FORBES	S.SHERLAW	2021-08-02	

FOR TENDER

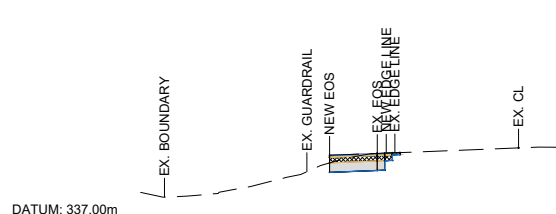
PROJECT			
QUEENSTOWN LAKES DISTRICT COUNCIL			
WAKATIPU ACTIVE TRAVEL			
WATN STAGE 2 ROUTES - ROUTE C5			
TITLE			
GORGE ROAD (ARTHURS POINT TO INDUSTRIAL PL)			
SECTION VIEWS - SHEET 10 OF 14			
WSP PROJECT NO.	PROJ-ORIG-VOL-LOC-TYPE	SHEET NO.	REVISION
6-XQ141.00	6-XQ141-WSP-01-C5-DR	C239	C

300 mm
200
100
50
0 10 mm



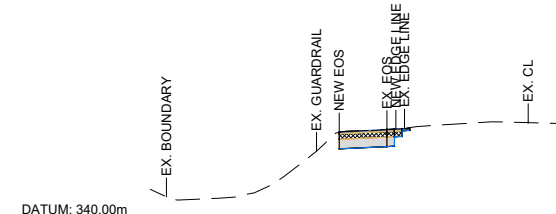
DGN. LEVEL	
OFFSETS	
E.G. LEVEL	
CUT / FILL	

CHAINAGE: 2340.00m



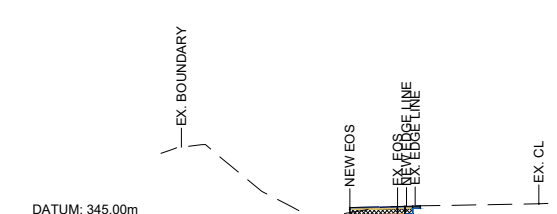
DGN. LEVEL	
OFFSETS	
E.G. LEVEL	
CUT / FILL	

CHAINAGE: 2400.00m



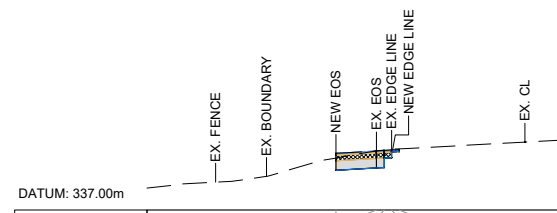
DGN. LEVEL	
OFFSETS	
E.G. LEVEL	
CUT / FILL	

CHAINAGE: 2460.00m



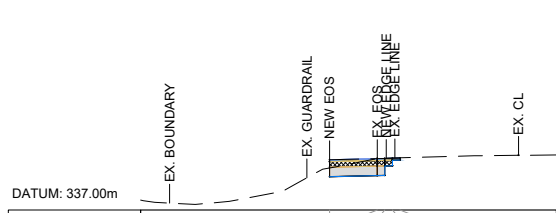
DGN. LEVEL	
OFFSETS	
E.G. LEVEL	
CUT / FILL	

CHAINAGE: 2520.00m



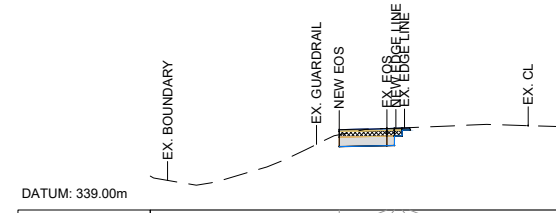
DGN. LEVEL	
OFFSETS	
E.G. LEVEL	
CUT / FILL	

CHAINAGE: 2320.00m



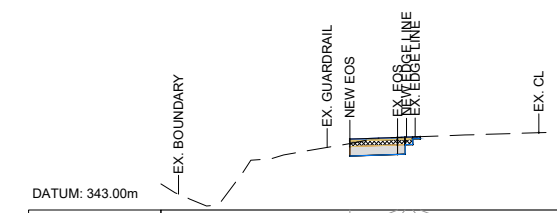
DGN. LEVEL	
OFFSETS	
E.G. LEVEL	
CUT / FILL	

CHAINAGE: 2380.00m



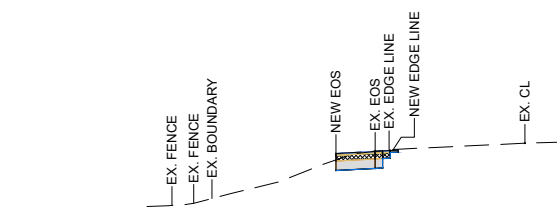
DGN. LEVEL	
OFFSETS	
E.G. LEVEL	
CUT / FILL	

CHAINAGE: 2440.00m



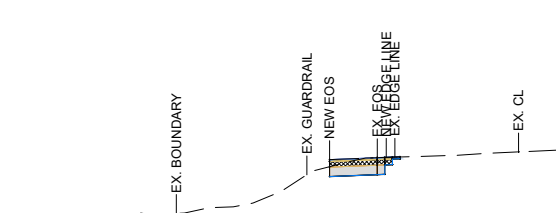
DGN. LEVEL	
OFFSETS	
E.G. LEVEL	
CUT / FILL	

CHAINAGE: 2500.00m



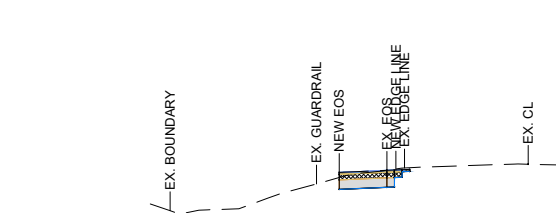
DGN. LEVEL	
OFFSETS	
E.G. LEVEL	
CUT / FILL	

CHAINAGE: 2300.00m



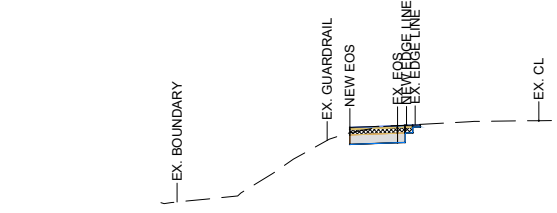
DGN. LEVEL	
OFFSETS	
E.G. LEVEL	
CUT / FILL	

CHAINAGE: 2360.00m



DGN. LEVEL	
OFFSETS	
E.G. LEVEL	
CUT / FILL	

CHAINAGE: 2420.00m



DGN. LEVEL	
OFFSETS	
E.G. LEVEL	
CUT / FILL	

CHAINAGE: 2480.00m

1:100 @ A1
1:200 @ A3



REVISION	AMENDMENT	APPROVED	DATE
A	DETAILED DESIGN ISSUED FOR CLIENT REVIEW	R. G.	2021-08-02
B	DETAILED DESIGN ISSUED FOR CLIENT APPROVAL	R. G.	2021-08-30
C	DETAILED DESIGN ISSUED FOR TENDER	R. G.	2021-10-22



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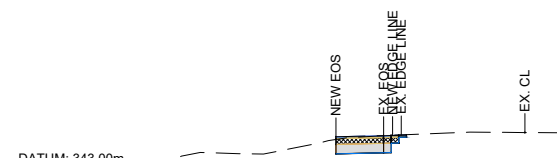
CIVIL

SCALES		ORIGINAL SIZE
1:100 @ A1		A1
DESIGNED	APPROVED	
P. FIEREK	R. GILL	
DESIGN VERIFIED	APPROVED DATE	
S. FORBES	2021-08-02	

FOR TENDER

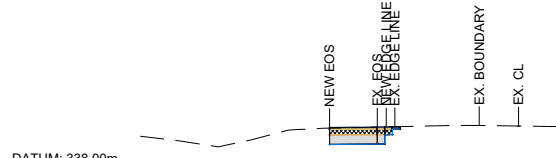
PROJECT			
QUEENSTOWN LAKES DISTRICT COUNCIL			
WAKATIPU ACTIVE TRAVEL			
WATN STAGE 2 ROUTES - ROUTE C5			
TITLE			
GORGE ROAD (ARTHURS POINT TO INDUSTRIAL PL)			
SECTION VIEWS - SHEET 11 OF 14			
WSP PROJECT NO.	PROJ-ORIG-VOL-LOC-TYPE	SHEET NO.	REVISION
6-XQ141.00	6-XQ141-WSP-01-C5-DR	C240	C

300 mm
200
100
50
0 10 mm
1000



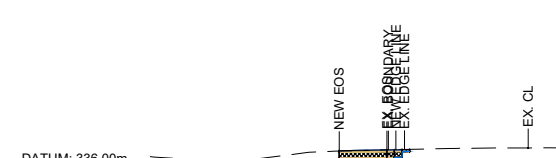
DGN. LEVEL	OFFSETS	E.G. LEVEL	CUT / FILL
0.00 344.01	-5.00	344.01	
0.00 344.03	-3.74	344.03	
0.00 344.04	-3.54	344.04	
0.00 344.04	-3.34	344.04	
0.00 344.05	-3.14	344.05	

CHAINAGE: 2580.00m



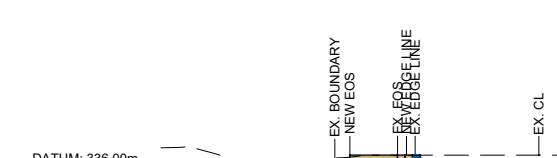
DGN. LEVEL	OFFSETS	E.G. LEVEL	CUT / FILL
0.00 339.25	-5.00	339.25	
0.00 339.26	-3.74	339.26	
0.00 339.26	-3.54	339.26	
0.00 339.27	-3.34	339.27	
0.00 339.27	-3.14	339.27	

CHAINAGE: 2640.00m



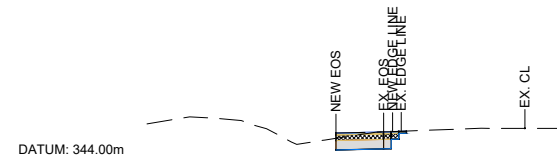
DGN. LEVEL	OFFSETS	E.G. LEVEL	CUT / FILL
0.00 336.64	-5.00	336.64	
0.00 336.66	-3.74	336.66	
0.00 336.66	-3.54	336.66	
0.00 336.66	-3.34	336.66	
0.00 336.67	-3.14	336.67	

CHAINAGE: 2700.00m



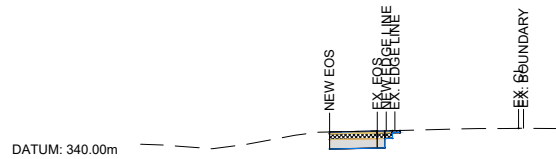
DGN. LEVEL	OFFSETS	E.G. LEVEL	CUT / FILL
0.00 336.52	-5.00	336.52	
0.00 336.52	-3.74	336.52	
0.00 336.52	-3.54	336.52	
0.00 336.52	-3.34	336.52	
0.00 336.52	-3.14	336.52	

CHAINAGE: 2760.00m



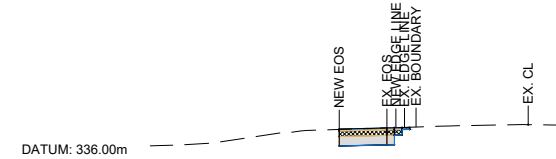
DGN. LEVEL	OFFSETS	E.G. LEVEL	CUT / FILL
0.00 344.87	-5.00	344.87	
0.00 344.90	-3.74	344.90	
0.00 344.91	-3.54	344.91	
0.00 344.91	-3.34	344.91	
0.00 344.92	-3.14	344.92	

CHAINAGE: 2560.00m



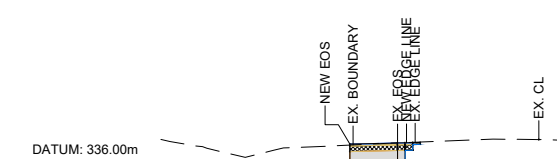
DGN. LEVEL	OFFSETS	E.G. LEVEL	CUT / FILL
0.00 340.90	-5.00	340.90	
0.00 340.93	-3.74	340.93	
0.00 340.93	-3.54	340.93	
0.00 340.93	-3.34	340.93	
0.00 340.94	-3.14	340.94	

CHAINAGE: 2620.00m



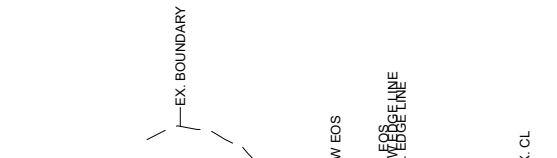
DGN. LEVEL	OFFSETS	E.G. LEVEL	CUT / FILL
0.00 336.98	-5.00	336.98	
0.00 337.01	-3.74	337.01	
0.00 337.01	-3.54	337.01	
0.00 337.02	-3.34	337.02	
0.00 337.02	-3.14	337.02	

CHAINAGE: 2680.00m



DGN. LEVEL	OFFSETS	E.G. LEVEL	CUT / FILL
0.00 336.58	-5.00	336.58	
0.00 336.61	-3.74	336.61	
0.00 336.62	-3.54	336.62	
0.00 336.62	-3.34	336.62	
0.00 336.63	-3.14	336.63	

CHAINAGE: 2740.00m



DGN. LEVEL	OFFSETS	E.G. LEVEL	CUT / FILL
0.00 345.36	-5.00	345.36	
0.00 345.39	-3.74	345.39	
0.00 345.40	-3.54	345.40	
0.00 345.41	-3.34	345.41	
0.00 345.41	-3.14	345.41	

CHAINAGE: 2540.00m



DGN. LEVEL	OFFSETS	E.G. LEVEL	CUT / FILL
0.00 342.60	-5.00	342.60	
0.00 342.61	-3.74	342.61	
0.00 342.61	-3.54	342.61	
0.00 342.62	-3.34	342.62	
0.00 342.62	-3.14	342.62	

CHAINAGE: 2600.00m



DGN. LEVEL	OFFSETS	E.G. LEVEL	CUT / FILL
0.00 337.83	-5.00	337.83	
0.00 337.84	-3.74	337.84	
0.00 337.85	-3.54	337.85	
0.00 337.85	-3.34	337.85	
0.00 337.85	-3.14	337.85	

CHAINAGE: 2660.00m



DGN. LEVEL	OFFSETS	E.G. LEVEL	CUT / FILL
0.00 336.60	-5.00	336.60	
0.00 336.62	-3.74	336.62	
0.00 336.63	-3.54	336.63	
0.00 336.63	-3.34	336.63	
0.00 336.63	-3.14	336.63	

CHAINAGE: 2720.00m

1:100 @ A1
1:200 @ A3

REVISION	AMENDMENT	APPROVED	DATE
A	DETAILED DESIGN ISSUED FOR CLIENT REVIEW	R. G.	2021-08-02
B	DETAILED DESIGN ISSUED FOR CLIENT APPROVAL	R. G.	2021-08-30
C	DETAILED DESIGN ISSUED FOR TENDER	R. G.	2021-10-22



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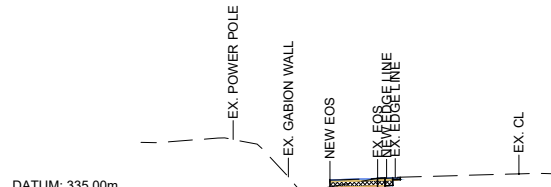
CIVIL

SCALES	DESIGNED	APPROVED	ORIGINAL SIZE
1:100 @ A1	P. FIEREK	R. GILL	A1
DRAWING VERIFIED	DESIGN VERIFIED	APPROVED DATE	
S.FORBES	S.SHERLAW	2021-08-02	

FOR TENDER

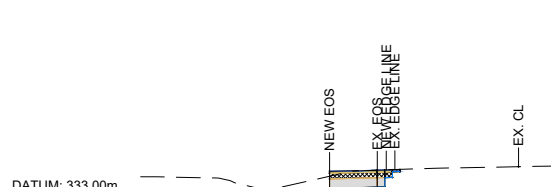
PROJECT	TITLE	WSP PROJECT NO.	PROJ-ORIG-VOL-LOC-TYPE	SHEET NO.	REVISION
QUEENSTOWN LAKES DISTRICT COUNCIL WAKATIPU ACTIVE TRAVEL WATN STAGE 2 ROUTES - ROUTE C5	GORGE ROAD (ARTHURS POINT TO INDUSTRIAL PL) SECTION VIEWS - SHEET 12 OF 14	6-QX141.00	6-QX141-WSP-01-C5-DR	C241	C

300 mm
200
100
50
0 10 mm



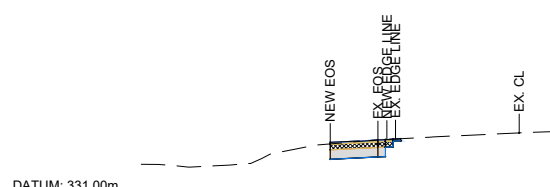
DGN. LEVEL	OFFSETS	E.G. LEVEL	CUT / FILL
335.56	-5.00	335.56	0.00
335.57	-4.73	335.57	0.00
335.60	-3.74	335.60	0.00
335.61	-3.54	335.61	0.00
335.62	-3.34	335.62	0.00
335.62	-3.14	335.62	0.00

CHAINAGE: 2813.79m



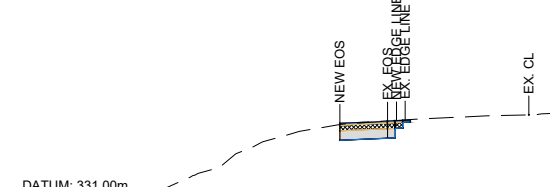
DGN. LEVEL	OFFSETS	E.G. LEVEL	CUT / FILL
333.79	-5.00	333.79	0.00
333.82	-3.74	333.82	0.00
333.83	-3.54	333.83	0.00
333.83	-3.34	333.83	0.00
333.84	-3.14	333.84	0.00

CHAINAGE: 2880.00m



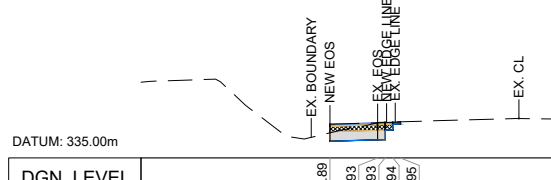
DGN. LEVEL	OFFSETS	E.G. LEVEL	CUT / FILL
332.56	-5.00	332.56	0.00
332.62	-3.74	332.62	0.00
332.63	-3.54	332.63	0.00
332.64	-3.34	332.64	0.00
332.65	-3.14	332.65	0.00

CHAINAGE: 2940.00m



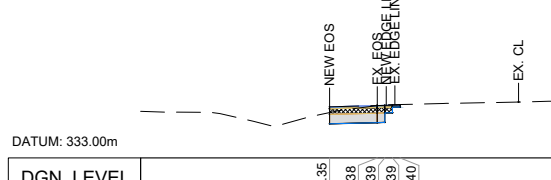
DGN. LEVEL	OFFSETS	E.G. LEVEL	CUT / FILL
333.07	-5.00	333.07	0.00
333.12	-3.74	333.12	0.00
333.13	-3.54	333.13	0.00
333.14	-3.34	333.14	0.00
333.15	-3.14	333.15	0.00

CHAINAGE: 3000.00m



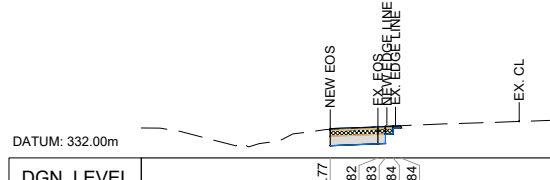
DGN. LEVEL	OFFSETS	E.G. LEVEL	CUT / FILL
335.89	-5.00	335.89	0.00
335.93	-3.74	335.93	0.00
335.93	-3.54	335.93	0.00
335.94	-3.34	335.94	0.00
335.95	-3.14	335.95	0.00

CHAINAGE: 2800.00m



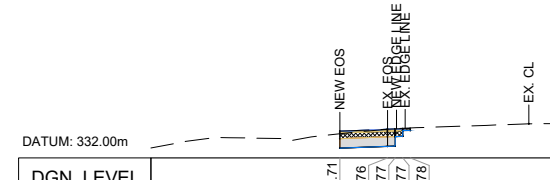
DGN. LEVEL	OFFSETS	E.G. LEVEL	CUT / FILL
334.35	-5.00	334.35	0.00
334.38	-3.74	334.38	0.00
334.39	-3.54	334.39	0.00
334.39	-3.34	334.39	0.00
334.40	-3.14	334.40	0.00

CHAINAGE: 2860.00m



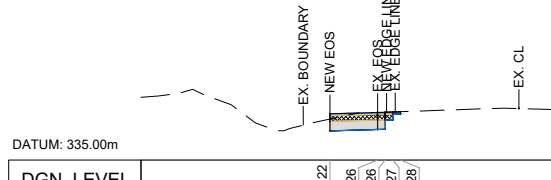
DGN. LEVEL	OFFSETS	E.G. LEVEL	CUT / FILL
332.77	-5.00	332.77	0.00
332.82	-3.74	332.82	0.00
332.83	-3.54	332.83	0.00
332.84	-3.34	332.84	0.00
332.84	-3.14	332.84	0.00

CHAINAGE: 2920.00m



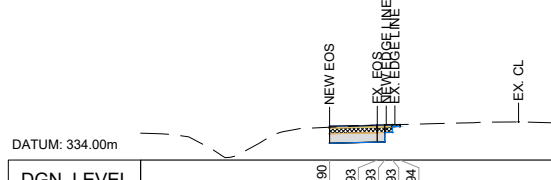
DGN. LEVEL	OFFSETS	E.G. LEVEL	CUT / FILL
332.71	-5.00	332.71	0.00
332.76	-3.74	332.76	0.00
332.77	-3.54	332.77	0.00
332.77	-3.34	332.77	0.00
332.78	-3.14	332.78	0.00

CHAINAGE: 2980.00m



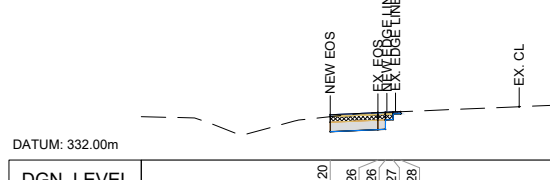
DGN. LEVEL	OFFSETS	E.G. LEVEL	CUT / FILL
336.22	-5.00	336.22	0.00
336.26	-3.74	336.26	0.00
336.26	-3.54	336.26	0.00
336.27	-3.34	336.27	0.00
336.28	-3.14	336.28	0.00

CHAINAGE: 2780.00m



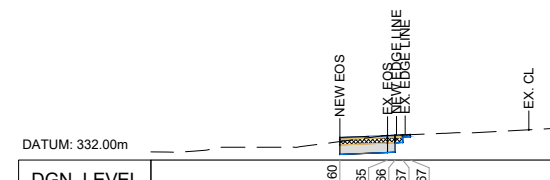
DGN. LEVEL	OFFSETS	E.G. LEVEL	CUT / FILL
334.90	-5.00	334.90	0.00
334.93	-3.74	334.93	0.00
334.93	-3.54	334.93	0.00
334.93	-3.34	334.93	0.00
334.94	-3.14	334.94	0.00

CHAINAGE: 2840.00m



DGN. LEVEL	OFFSETS	E.G. LEVEL	CUT / FILL
333.20	-5.00	333.20	0.00
333.26	-3.74	333.26	0.00
333.26	-3.54	333.26	0.00
333.27	-3.34	333.27	0.00
333.28	-3.14	333.28	0.00

CHAINAGE: 2900.00m



DGN. LEVEL	OFFSETS	E.G. LEVEL	CUT / FILL
332.60	-5.00	332.60	0.00
332.65	-3.74	332.65	0.00
332.66	-3.54	332.66	0.00
332.67	-3.34	332.67	0.00
332.67	-3.14	332.67	0.00

CHAINAGE: 2960.00m

1:100 @ A1
1:200 @ A3



REVISION	AMENDMENT	APPROVED	DATE
A	DETAILED DESIGN ISSUED FOR CLIENT REVIEW	R. G.	2021-08-02
B	DETAILED DESIGN ISSUED FOR CLIENT APPROVAL	R. G.	2021-08-30
C	DETAILED DESIGN ISSUED FOR TENDER	R. G.	2021-10-22



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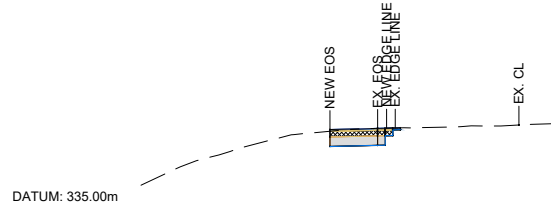
CIVIL

SCALES	DESIGNED	APPROVED	ORIGINAL SIZE
1:100 @ A1	P. FIEREK	R. GILL	A1
DRAWN	DESIGN VERIFIED	APPROVED DATE	
P. FIEREK	S. SHERLAW	2021-08-02	

FOR TENDER

PROJECT	TITLE	WSP PROJECT NO.	PROJ-ORIG-VOL-LOC-TYPE	SHEET NO.	REVISION
QUEENSTOWN LAKES DISTRICT COUNCIL WAKATIPU ACTIVE TRAVEL WATN STAGE 2 ROUTES - ROUTE C5	GORGE ROAD (ARTHURS POINT TO INDUSTRIAL PL) SECTION VIEWS - SHEET 13 OF 14	6-XQ141.00	6-XQ141-WSP-01-C5-DR	C242	C

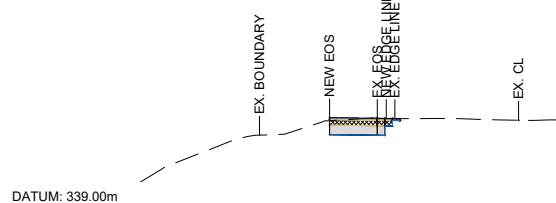
300 mm
200
100
50
0 10 mm



DATUM: 335.00m

DGN. LEVEL	
OFFSETS	
E.G. LEVEL	
CUT / FILL	
	0.00 337.18 -5.00 337.18
	0.00 337.21 -3.74 337.21
	0.00 337.22 -3.54 337.22
	0.00 337.22 -3.34 337.22
	0.00 337.23 -3.14 337.23

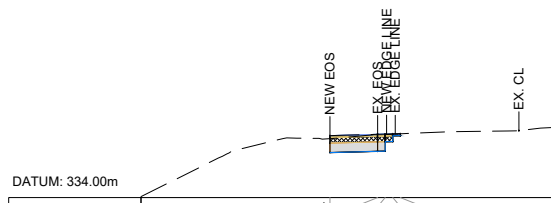
CHAINAGE: 3060.00m



DATUM: 339.00m

DGN. LEVEL	
OFFSETS	
E.G. LEVEL	
CUT / FILL	
	0.00 341.50 -5.00 341.50
	0.00 341.48 -3.74 341.48
	0.00 341.48 -3.54 341.48
	0.00 341.47 -3.34 341.47
	0.00 341.47 -3.14 341.47

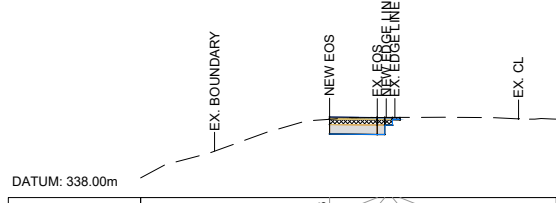
CHAINAGE: 3120.00m



DATUM: 334.00m

DGN. LEVEL	
OFFSETS	
E.G. LEVEL	
CUT / FILL	
	0.00 335.64 -5.00 335.64
	0.00 335.67 -3.74 335.67
	0.00 335.68 -3.54 335.68
	0.00 335.68 -3.34 335.68
	0.00 335.69 -3.14 335.69

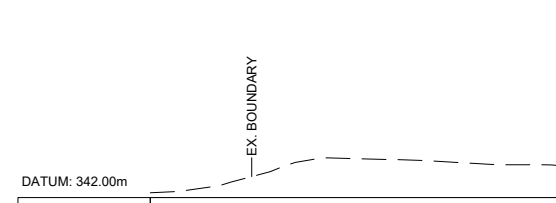
CHAINAGE: 3040.00m



DATUM: 338.00m

DGN. LEVEL	
OFFSETS	
E.G. LEVEL	
CUT / FILL	
	0.00 340.13 -5.00 340.13
	0.00 340.12 -3.74 340.12
	0.00 340.12 -3.54 340.12
	0.00 340.11 -3.34 340.11
	0.00 340.11 -3.14 340.11

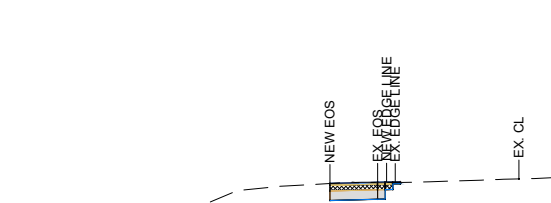
CHAINAGE: 3100.00m



DATUM: 342.00m

DGN. LEVEL	
OFFSETS	
E.G. LEVEL	
CUT / FILL	

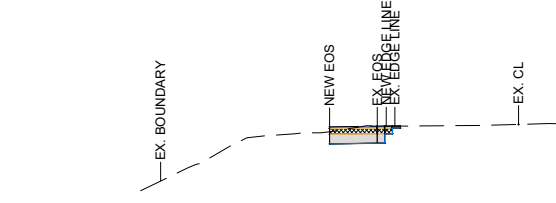
CHAINAGE: 3145.74m



DATUM: 333.00m

DGN. LEVEL	
OFFSETS	
E.G. LEVEL	
CUT / FILL	
	0.00 334.18 -5.00 334.18
	0.00 334.21 -3.74 334.21
	0.00 334.22 -3.54 334.22
	0.00 334.22 -3.34 334.22
	0.00 334.23 -3.14 334.23

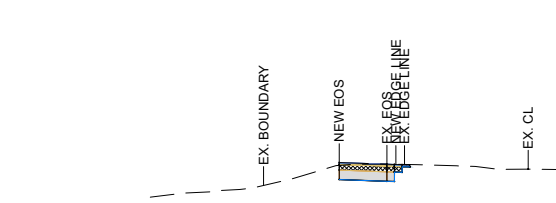
CHAINAGE: 3020.00m



DATUM: 336.00m

DGN. LEVEL	
OFFSETS	
E.G. LEVEL	
CUT / FILL	
	0.00 338.68 -5.00 338.68
	0.00 338.70 -3.74 338.70
	0.00 338.70 -3.54 338.70
	0.00 338.70 -3.34 338.70
	0.00 338.70 -3.14 338.70

CHAINAGE: 3080.00m



DATUM: 341.00m

DGN. LEVEL	
OFFSETS	
E.G. LEVEL	
CUT / FILL	
	0.00 342.73 -5.00 342.73
	0.00 342.69 -3.74 342.69
	0.00 342.68 -3.54 342.68
	0.00 342.68 -3.34 342.68
	0.00 342.67 -3.14 342.67

CHAINAGE: 3140.00m

1:100 @ A1
1:200 @ A3



REVISION	AMENDMENT	APPROVED	DATE
A	DETAILED DESIGN ISSUED FOR CLIENT REVIEW	R. G.	2021-08-02
B	DETAILED DESIGN ISSUED FOR CLIENT APPROVAL	R. G.	2021-08-30
C	DETAILED DESIGN ISSUED FOR TENDER	R. G.	2021-10-22



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New Zealand

CIVIL

SCALES		ORIGINAL SIZE
1:100 @ A1		A1
DRAWN	DESIGNED	APPROVED
P. FIEREK	P. FIEREK	R. GILL
DRAWING VERIFIED	DESIGN VERIFIED	APPROVED DATE
S. FORBES	S. SHERLAW	2021-08-02

FOR TENDER

PROJECT		
QUEENSTOWN LAKES DISTRICT COUNCIL WAKATIPU ACTIVE TRAVEL WATN STAGE 2 ROUTES - ROUTE C5		
TITLE		
GORGE ROAD (ARTHURS POINT TO INDUSTRIAL PL) SECTION VIEWS - SHEET 14 OF 14		
WSP PROJECT NO.	PROJ-ORIG-VOL-LOC-TYPE	SHEET NO.
6-XQ141.00	6-XQ141-WSP-01-C5-DR	C243
		REVISION
		C

Datum R.L. 328.00

EXISTING LEVEL	340.15	339.84	339.51	339.91	338.71	337.98	337.71		337.60	337.73	337.92	337.90	338.37	338.33	337.73	337.77	337.82	339.04	339.25	337.57	337.03	336.79	336.61	336.40	336.11	336.44	336.45	336.42	335.74	335.12	334.93	334.71	334.44
VERTICAL GEOMETRY	-4.91% 6.24m	VC: 8.2m K: 0.65	15m	VC: 11.0m K: 0.65	-0.60% 17.31m	2.12% 15.09m	-0.27% 8.06m	5.08% 9.12m	-0.60% 6.59m	-12.37% 4.83m	0.27% 30.22m	6.13% 20.05m	-5.54% 22.53m	-5.32% 10.12m	-1.17% 20.47m	-2.01% 19.87m	-1.45% 20.00m	1.73% 20.00m	-0.29% 10.00m	-6.83% 10.02m	-3.12% 20.01m	-2.04% 20.01m	-1.40% 20.00m										
STATION	0.00	6.23	10.36	14.48	15.61	21.14	26.66	43.97	50.00	59.06	67.12	76.23	82.82	87.61	100.00	117.83	137.84	150.00	160.32	170.43	190.89	200.00	210.76	230.76	250.00	250.75	260.75	270.75	290.75	300.00	310.75	330.00	

C5 MATAKAURI PARK
LONGSECTION BETWEEN CH: 0.00 AND 330.00

Datum R.L. 328.00

EXISTING LEVEL	334.44	334.43	334.96	334.98	334.88	335.22	335.02	333.96	333.90	333.80	332.91	332.61	332.60	332.43	331.94	331.85	331.74	332.01	331.84	331.10	331.04	330.73	330.94	330.78	331.23	331.27	331.24	331.10	330.82	330.58	330.57	330.41
VERTICAL GEOMETRY	-1.40% 20.00m	2.74% 20.00m	-0.98% 9.93m	3.40% 10.15m	-2.82% 7.30m	-8.00% 13.25m	-0.69% 23.11m	-5.52% 16.26m	-1.54% 20.16m	-0.83% 19.93m	-2.45% 20.00m	-0.99% 19.98m	1.35% 20.03m	-1.73% 9.78m	-7.84% 10.32m	-3.07% 9.93m	2.07% 10.00m	-1.07% 15.43m	7.25% 6.23m	0.81% 5.36m	-1.31% 12.83m	-1.39% 20.32m	-1.25% 20.00m	-1.77% 9.89m								
STATION	330.00	330.76	350.00	350.75	360.68	370.83	378.13	391.34	400.00	414.45	430.68	450.00	450.84	470.77	490.76	500.00	510.74	530.77	540.55	550.00	550.83	560.75	570.75	586.18	592.40	597.76	600.00	610.59	630.80	650.00	650.80	660.00

C5 MATAKAURI PARK
LONGSECTION BETWEEN CH: 330.00 AND 660.00

Datum R.L. 328.00

EXISTING LEVEL	330.41	330.39	330.28	330.34	330.35	330.37	330.06	329.97	330.28	330.30	331.08	331.19	330.55	330.25	330.26	329.84	329.80	329.76	329.79	330.54	330.45	329.93	329.90	329.55	329.79	329.39	329.40	329.40	330.00	330.08	329.39	329.34	329.37	329.43	329.54	329.22
VERTICAL GEOMETRY	-1.77% 9.89m	-1.16% 9.89m	0.29% 20.00m	0.14% 20.06m	-1.51% 19.99m	-0.89% 9.94m	3.24% 10.07m	7.76% 10.03m	3.99% 2.88m	-7.93% 8.18m	-4.02% 7.42m	0.10% 11.56m	-4.49% 10.22m	-0.41% 9.85m	0.53% 5.08m	5.05% 14.87m	-1.08% 7.70m	-4.50% 12.30m	-3.47% 10.04m	2.32% 10.10m	-1.99% 19.79m	0.02% 20.12m	3.03% 19.99m	0.78% 9.75m	-7.23% 10.29m	0.37% 10.00m	0.54% 10.00m	1.86% 6.21m	-2.50% 13.79m							
STATION	660.00	660.79	670.68	690.68	700.00	710.74	730.73	740.67	750.00	750.74	760.74	763.62	771.78	779.19	790.74	800.00	800.95	810.80	815.88	830.73	838.44	850.00	850.72	860.76	870.85	890.63	900.00	910.75	930.74	940.49	950.00	950.75	960.75	970.75	976.96	990.00

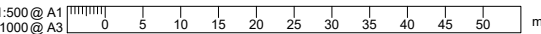
C5 MATAKAURI PARK
LONGSECTION BETWEEN CH: 660.00 AND 990.00

Datum R.L. 328.00

EXISTING LEVEL	329.22	329.20	329.14	329.08	329.21	329.81	329.86	329.86	329.21	328.94	329.19	329.56	329.59	329.02	329.25	331.56	331.49	331.21	331.07	331.25	332.06	332.29	332.56	332.58	332.84	332.85	333.00	333.30	333.60	334.42	335.01	335.36	335.69
VERTICAL GEOMETRY	-2.50% 13.79m	-0.60% 20.00m	0.66% 20.00m	5.49% 10.91m	0.59% 9.11m	-6.53% 10.02m	-2.72% 9.83m	1.23% 20.17m	4.04% 9.88m	-5.67% 10.09m	1.31% 17.45m	12.17% 19.18m	-2.61% 13.51m	-1.35% 10.12m	1.78% 9.82m	8.00% 10.14m	2.52% 20.02m	0.11% 19.99m	1.35% 20.01m	1.50% 10.00m	2.94% 10.02m	1.58% 18.95m	8.00% 17.69m	6.42% 5.44m	4.95% 15.72m								
STATION	990.00	990.75	1000.00	1010.75	1030.75	1041.64	1050.00	1050.76	1060.76	1070.58	1090.74	1100.00	1100.62	1110.69	1128.13	1147.18	1150.00	1160.68	1170.79	1180.62	1190.72	1200.00	1210.74	1230.73	1250.00	1250.73	1260.73	1270.74	1289.69	1300.00	1307.32	1312.75	1319.52

C5 MATAKAURI PARK
LONGSECTION BETWEEN CH: 990.00 AND 1319.52

MATAKAURI PARK SHARED PATH PROFILE
(REFER TO SHEET C207 TO C211 FOR LOCATION)
SCALE 1:500(A1), 1:1000(A3)



REVISION	AMENDMENT	APPROVED	DATE
A	DETAILED DESIGN ISSUED FOR CLIENT REVIEW	R. G.	2021-08-02
B	DETAILED DESIGN ISSUED FOR CLIENT APPROVAL	R. G.	2021-08-30
C	DETAILED DESIGN ISSUED FOR TENDER	R. G.	2021-10-22



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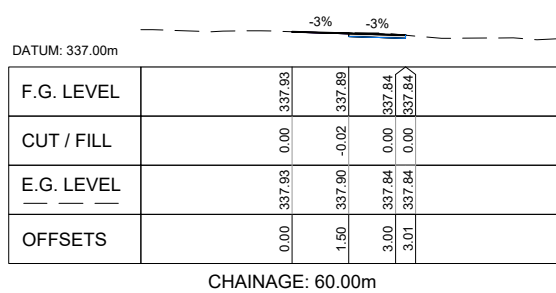
CIVIL

SCALES	DESIGNED	APPROVED
1:500 @ A1	P. FIEREK	R. GILL
ORIGINAL SIZE		
A1		
DRAWING VERIFIED	DESIGN VERIFIED	APPROVED DATE
S. FORBES	S. SHERLAW	2021-08-02

FOR TENDER

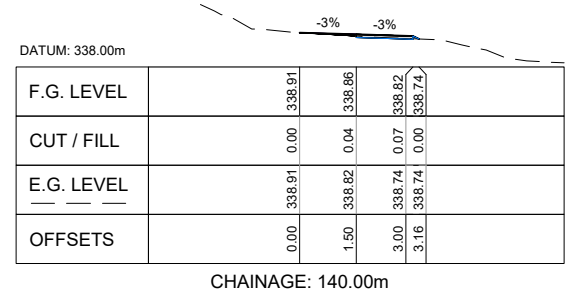
PROJECT			
QUEENSTOWN LAKES DISTRICT COUNCIL			
WAKATIPU ACTIVE TRAVEL			
WATN STAGE 2 ROUTES - ROUTE C5			
TITLE			
MATAKAURI PARK			
EDGE OF PATH PROFILE - SHEET 1 OF 1			
WSP PROJECT NO.	PROJ-ORIG-VOL-LOC-TYPE	SHEET NO.	REVISION
6-XQ141.00	6-XQ141-WSP-01-C5-DR	C245	C

300 mm
200
100
50
0 10 mm
millimetre



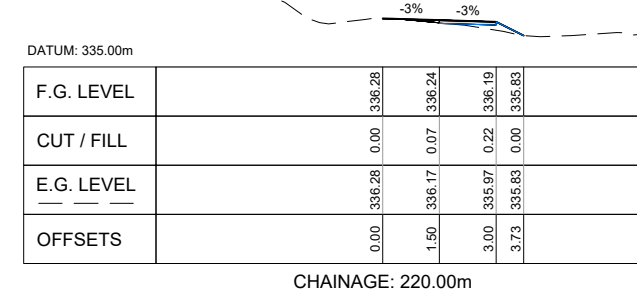
DATUM: 337.00m	
F.G. LEVEL	0.00 337.83 3.00 337.84 3.01 337.84
CUT / FILL	0.00 0.00 -0.02 0.00 0.00
E.G. LEVEL	0.00 337.83 3.00 337.84 3.01 337.84
OFFSETS	0.00 1.50 3.00 3.01

CHAINAGE: 60.00m



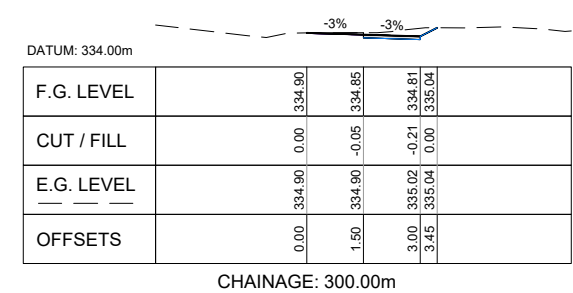
DATUM: 338.00m	
F.G. LEVEL	0.00 338.91 3.00 338.82 3.00 338.74 3.16 338.74
CUT / FILL	0.00 0.04 0.07 0.00 0.00
E.G. LEVEL	0.00 338.91 3.00 338.82 3.00 338.74 3.16 338.74
OFFSETS	0.00 1.50 3.00 3.16

CHAINAGE: 140.00m



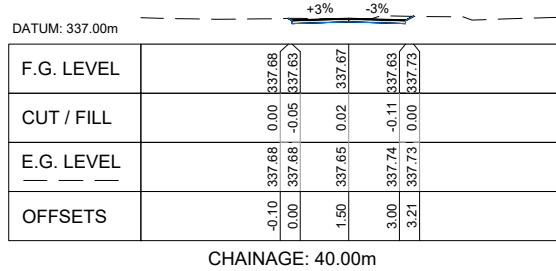
DATUM: 335.00m	
F.G. LEVEL	0.00 336.28 3.00 336.24 3.00 335.97 3.73 335.83
CUT / FILL	0.00 0.07 0.22 0.00 0.00
E.G. LEVEL	0.00 336.28 3.00 336.17 3.00 335.97 3.73 335.83
OFFSETS	0.00 1.50 3.00 3.73

CHAINAGE: 220.00m



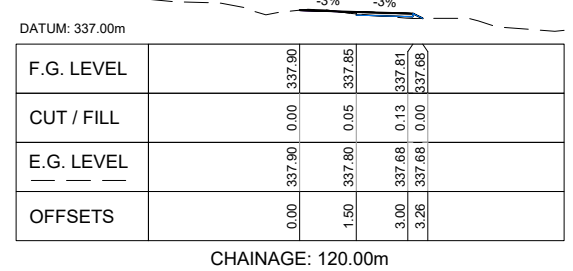
DATUM: 334.00m	
F.G. LEVEL	0.00 334.90 3.00 334.85 3.00 335.02 3.45 335.04
CUT / FILL	0.00 -0.05 -0.21 0.00 0.00
E.G. LEVEL	0.00 334.90 3.00 334.85 3.00 335.02 3.45 335.04
OFFSETS	0.00 1.50 3.00 3.45

CHAINAGE: 300.00m



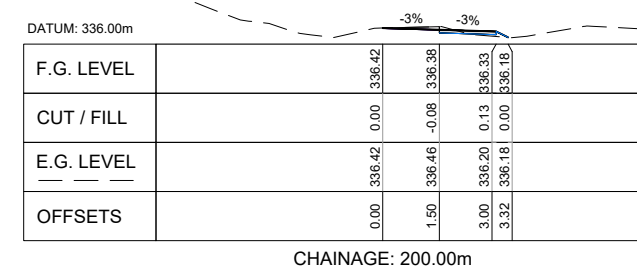
DATUM: 337.00m	
F.G. LEVEL	-0.10 337.68 0.00 337.63 1.50 337.65 3.00 337.74 3.21 337.73
CUT / FILL	0.00 -0.05 0.02 -0.11 0.00 0.00
E.G. LEVEL	-0.10 337.68 0.00 337.63 1.50 337.65 3.00 337.74 3.21 337.73
OFFSETS	0.00 0.00 1.50 3.00 3.21

CHAINAGE: 40.00m



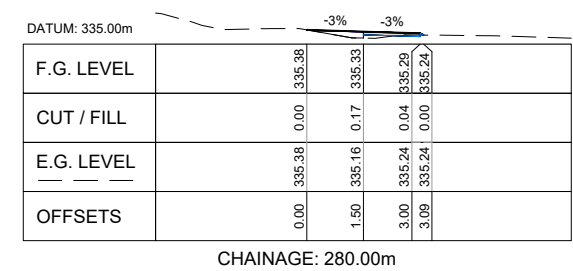
DATUM: 337.00m	
F.G. LEVEL	0.00 337.90 3.00 337.85 3.00 337.68 3.26 337.68
CUT / FILL	0.00 0.05 0.13 0.00 0.00
E.G. LEVEL	0.00 337.90 3.00 337.85 3.00 337.68 3.26 337.68
OFFSETS	0.00 1.50 3.00 3.26

CHAINAGE: 120.00m



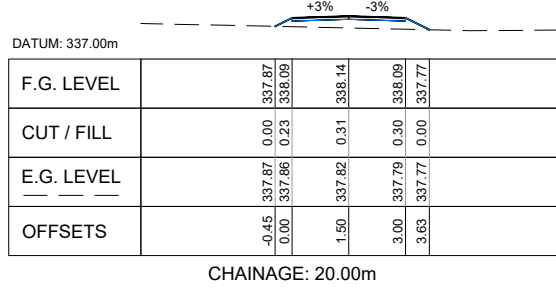
DATUM: 336.00m	
F.G. LEVEL	0.00 336.42 3.00 336.38 3.00 336.20 3.32 336.18
CUT / FILL	0.00 -0.08 0.13 0.00 0.00
E.G. LEVEL	0.00 336.42 3.00 336.38 3.00 336.20 3.32 336.18
OFFSETS	0.00 1.50 3.00 3.32

CHAINAGE: 200.00m



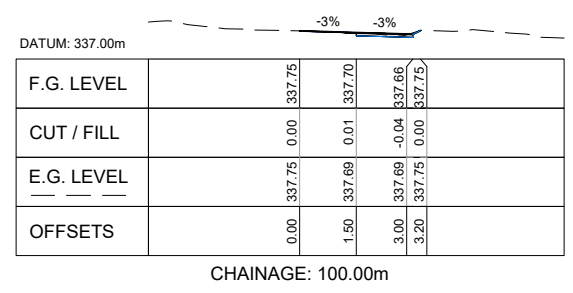
DATUM: 335.00m	
F.G. LEVEL	0.00 335.38 3.00 335.33 3.00 335.24 3.09 335.24
CUT / FILL	0.00 0.17 0.04 0.00 0.00
E.G. LEVEL	0.00 335.38 3.00 335.33 3.00 335.24 3.09 335.24
OFFSETS	0.00 1.50 3.00 3.09

CHAINAGE: 280.00m



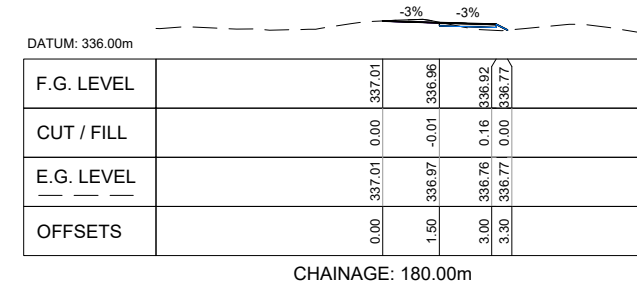
DATUM: 337.00m	
F.G. LEVEL	-0.45 337.87 0.00 337.87 1.50 337.82 3.00 337.79 3.63 337.77
CUT / FILL	0.00 0.23 0.31 0.30 0.00 0.00
E.G. LEVEL	-0.45 337.87 0.00 337.87 1.50 337.82 3.00 337.79 3.63 337.77
OFFSETS	0.00 0.00 1.50 3.00 3.63

CHAINAGE: 20.00m



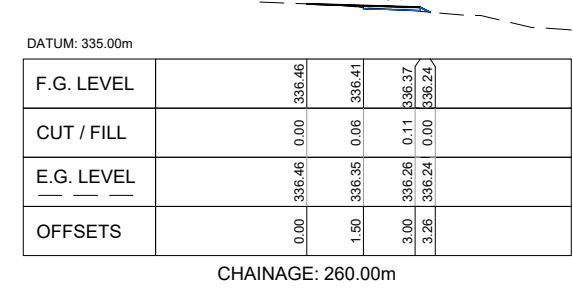
DATUM: 337.00m	
F.G. LEVEL	0.00 337.75 3.00 337.69 3.20 337.75
CUT / FILL	0.00 0.01 -0.04 0.00 0.00
E.G. LEVEL	0.00 337.75 3.00 337.69 3.20 337.75
OFFSETS	0.00 1.50 3.00 3.20

CHAINAGE: 100.00m



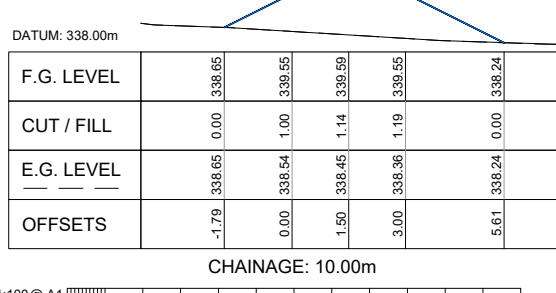
DATUM: 336.00m	
F.G. LEVEL	0.00 337.01 3.00 336.97 3.00 336.76 3.30 336.77
CUT / FILL	0.00 -0.01 0.16 0.00 0.00
E.G. LEVEL	0.00 337.01 3.00 336.97 3.00 336.76 3.30 336.77
OFFSETS	0.00 1.50 3.00 3.30

CHAINAGE: 180.00m



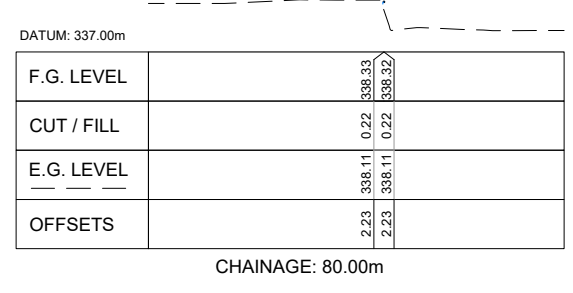
DATUM: 335.00m	
F.G. LEVEL	0.00 336.46 3.00 336.41 3.00 336.26 3.26 336.24
CUT / FILL	0.00 0.06 0.11 0.00 0.00
E.G. LEVEL	0.00 336.46 3.00 336.41 3.00 336.26 3.26 336.24
OFFSETS	0.00 1.50 3.00 3.26

CHAINAGE: 260.00m



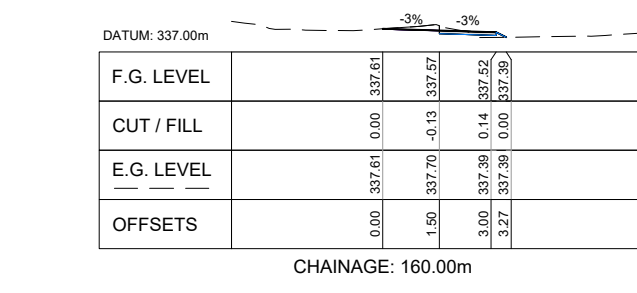
DATUM: 338.00m	
F.G. LEVEL	-1.79 338.65 0.00 338.55 1.50 338.45 3.00 338.36 5.61 338.24
CUT / FILL	0.00 1.00 1.14 1.19 0.00 0.00
E.G. LEVEL	-1.79 338.65 0.00 338.55 1.50 338.45 3.00 338.36 5.61 338.24
OFFSETS	-1.79 0.00 1.50 3.00 5.61

CHAINAGE: 10.00m



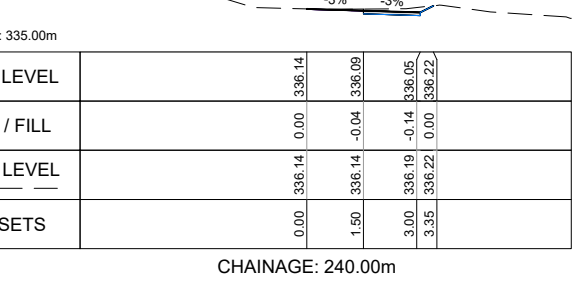
DATUM: 337.00m	
F.G. LEVEL	2.23 338.11 0.22 338.33 2.23 338.11 0.22 338.32
CUT / FILL	0.00 0.00 0.00 0.00 0.00 0.00
E.G. LEVEL	2.23 338.11 0.22 338.33 2.23 338.11 0.22 338.32
OFFSETS	2.23 2.23

CHAINAGE: 80.00m



DATUM: 337.00m	
F.G. LEVEL	0.00 337.61 3.00 337.57 3.00 337.39 3.27 337.39
CUT / FILL	0.00 -0.13 0.14 0.00 0.00
E.G. LEVEL	0.00 337.61 3.00 337.57 3.00 337.39 3.27 337.39
OFFSETS	0.00 1.50 3.00 3.27

CHAINAGE: 160.00m



DATUM: 335.00m	
F.G. LEVEL	0.00 336.14 3.00 336.09 3.00 336.19 3.35 336.22
CUT / FILL	0.00 -0.04 -0.14 0.00 0.00
E.G. LEVEL	0.00 336.14 3.00 336.09 3.00 336.19 3.35 336.22
OFFSETS	0.00 1.50 3.00 3.35

CHAINAGE: 240.00m

1:100 @ A1
1:200 @ A3

REVISION	AMENDMENT	APPROVED	DATE
A	DETAILED DESIGN ISSUED FOR CLIENT REVIEW	R. GILL	2021-08-02
B	DETAILED DESIGN ISSUED FOR CLIENT APPROVAL	R. GILL	2021-08-30
C	DETAILED DESIGN ISSUED FOR TENDER	R. GILL	2021-10-22



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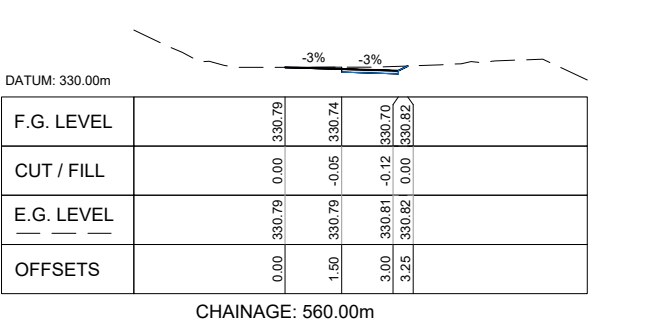
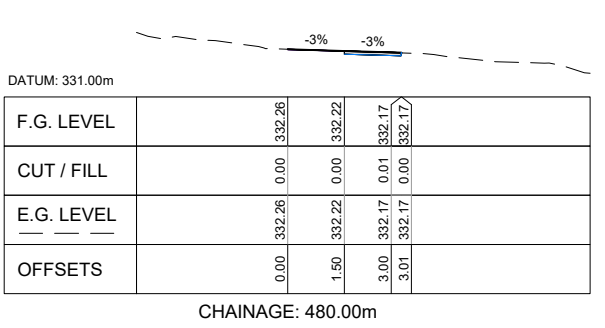
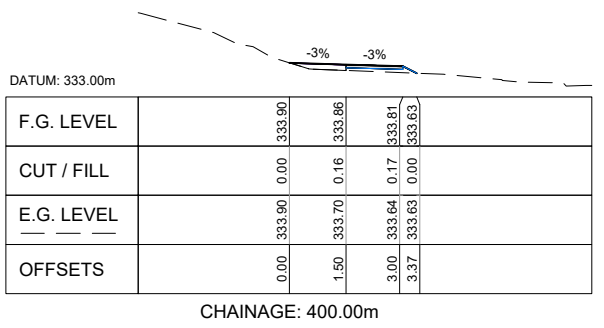
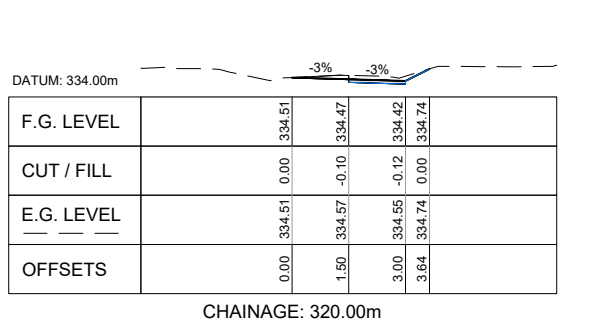
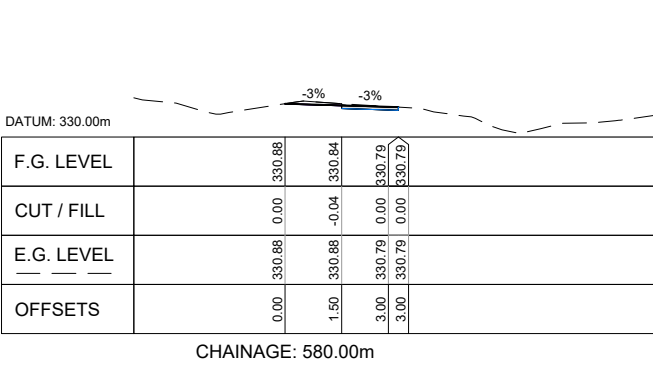
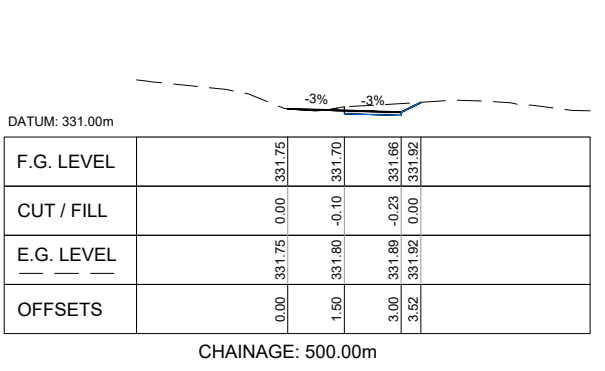
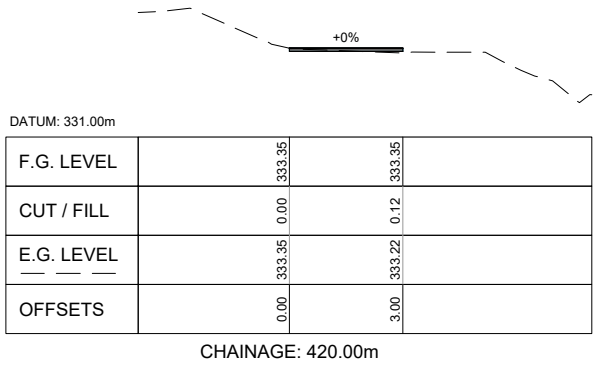
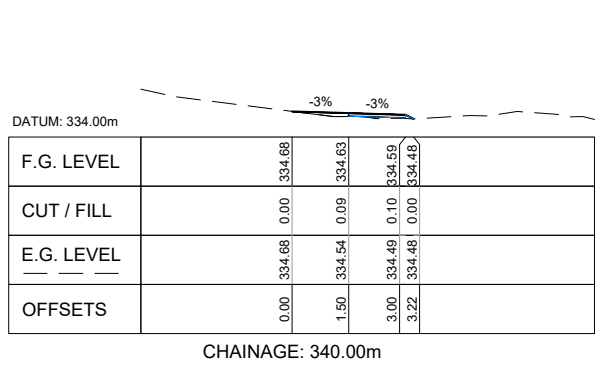
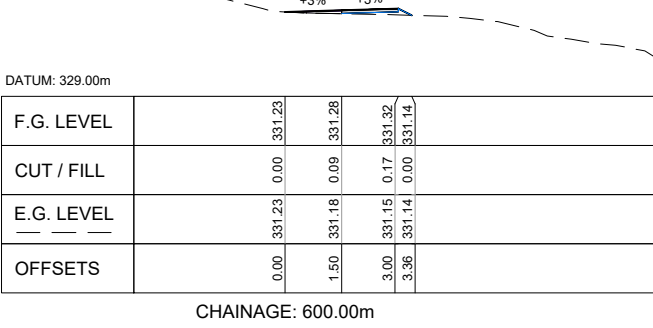
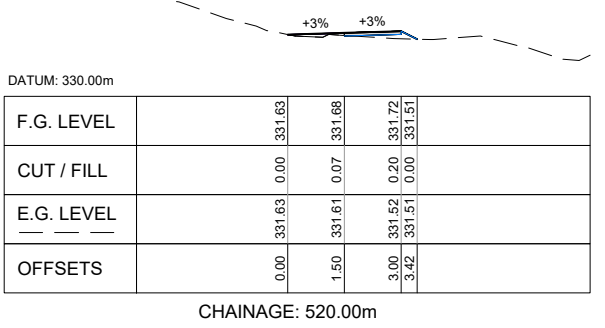
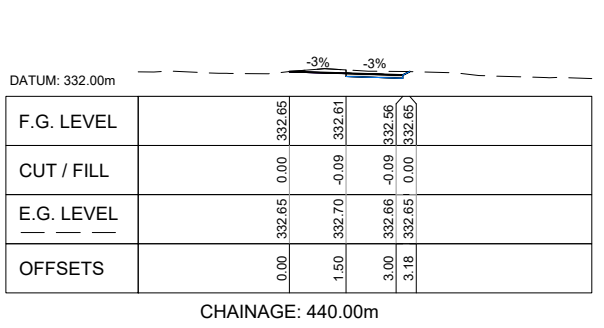
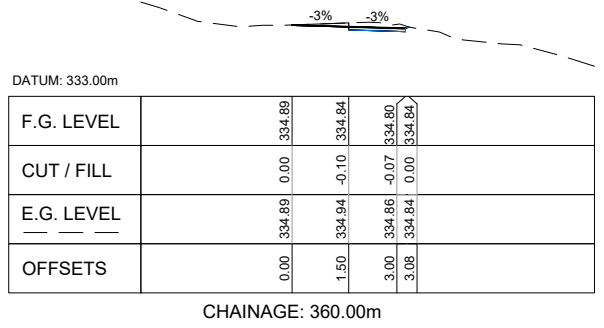
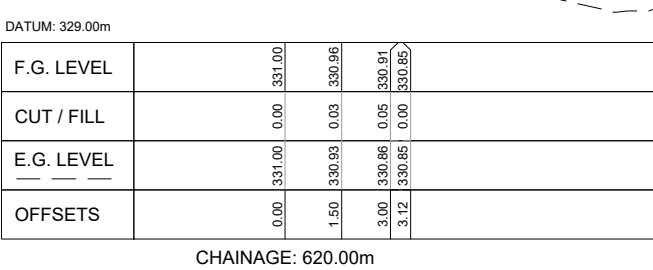
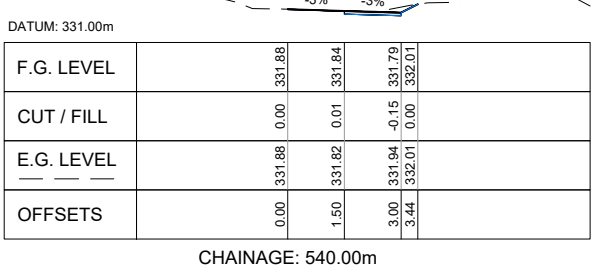
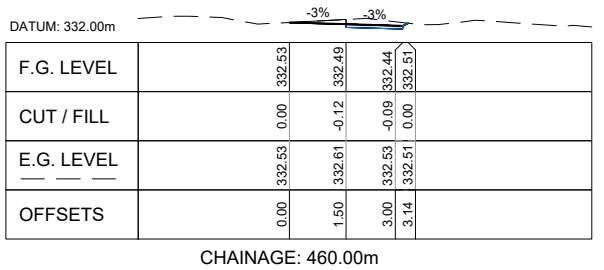
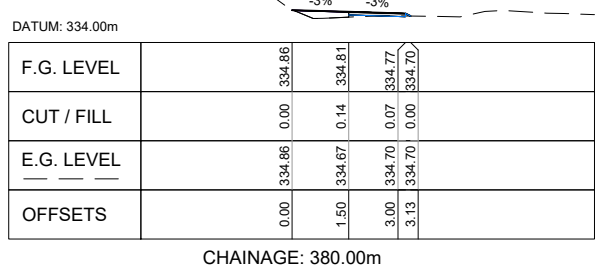
CIVIL

SCALES		ORIGINAL SIZE
1:100 @ A1		A1
DRAWN	DESIGNED	APPROVED
P. FIEREK	P. FIEREK	R. GILL
DRAWING VERIFIED	DESIGN VERIFIED	APPROVED DATE
S. FORBES	S. SHERLAW	2021-08-02

FOR TENDER

PROJECT			
QUEENSTOWN LAKES DISTRICT COUNCIL			
WAKATIPU ACTIVE TRAVEL			
WATN STAGE 2 ROUTES - ROUTE C5			
TITLE			
MATAKAURI PARK			
SECTION VIEWS - SHEET 1 OF 5			
WSP PROJECT NO.	PROJ-ORIG-VOL-LOC-TYPE	SHEET NO.	REVISION
6-XQ141.00	6-XQ141-WSP-01-C5-DR	C246	C

300 mm
200
100
50
0 10 mm
millimetre



1:100 @ A1
1:200 @ A3

REVISION	AMENDMENT	APPROVED	DATE
A	DETAILED DESIGN ISSUED FOR CLIENT REVIEW	R. G.	2021-08-02
B	DETAILED DESIGN ISSUED FOR CLIENT APPROVAL	R. G.	2021-08-30
C	DETAILED DESIGN ISSUED FOR TENDER	R. G.	2021-10-22



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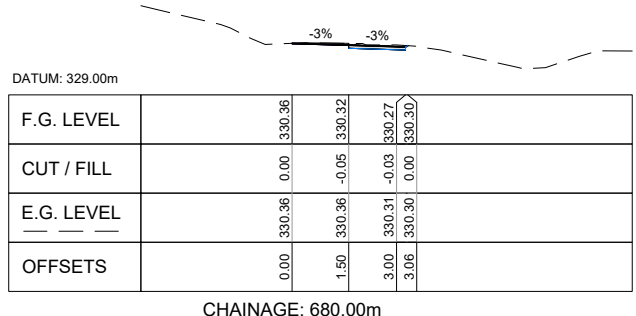
CIVIL

SCALES		ORIGINAL SIZE
1:100 @ A1		A1
DRAWN	DESIGNED	APPROVED
P. FIEREK	P. FIEREK	R. GILL
DRAWING VERIFIED	DESIGN VERIFIED	APPROVED DATE
S. FORBES	S. SHERLAW	2021-08-02

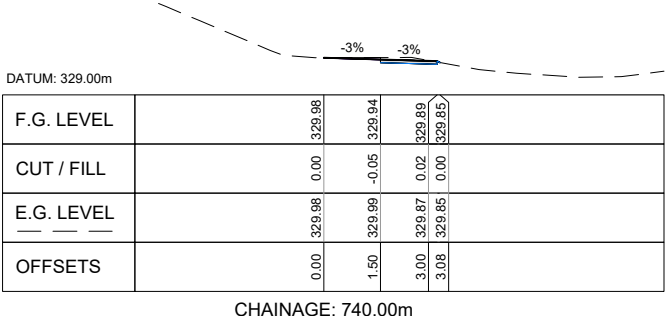
FOR TENDER

PROJECT		
QUEENSTOWN LAKES DISTRICT COUNCIL WAKATIPU ACTIVE TRAVEL WATN STAGE 2 ROUTES - ROUTE C5		
TITLE		
MATAKAURI PARK SECTION VIEWS - SHEET 2 OF 5		
WSP PROJECT NO.	PROJ-ORIG-VOL-LOC-TYPE	SHEET NO.
6-XQ141.00	6-XQ141-WSP-01-C5-DR	C247
REVISION		
C		

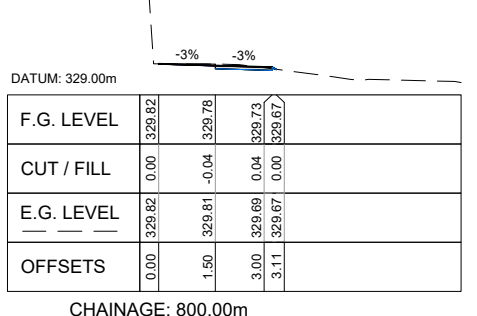
300 mm
200
100
50
0 10 mm



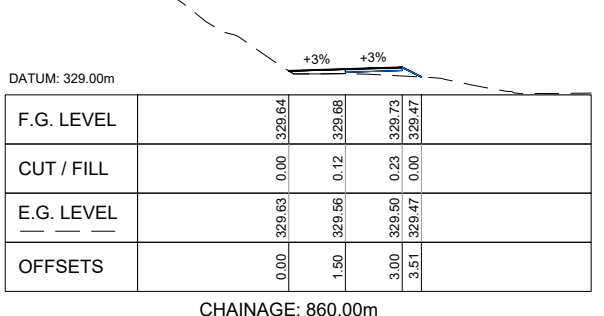
CHAINAGE: 680.00m



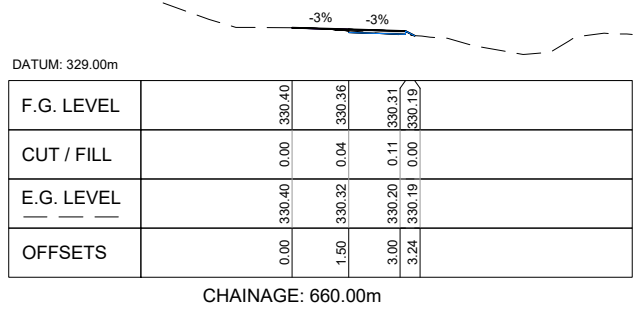
CHAINAGE: 740.00m



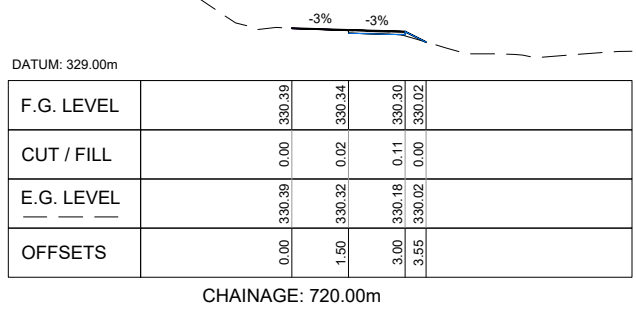
CHAINAGE: 800.00m



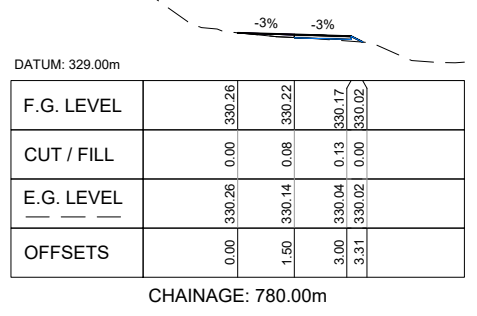
CHAINAGE: 860.00m



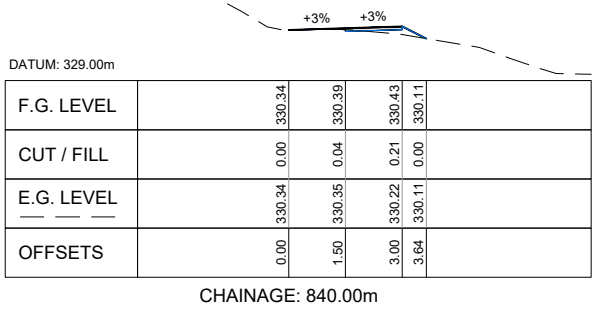
CHAINAGE: 660.00m



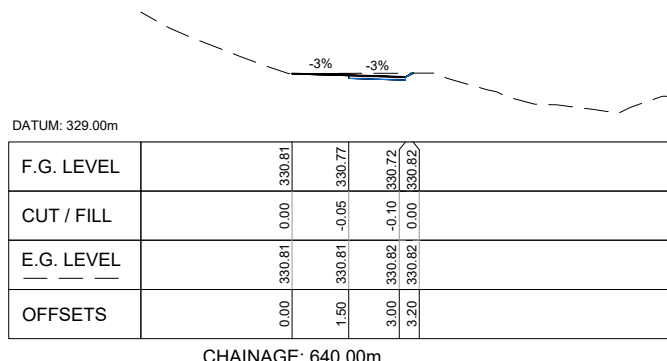
CHAINAGE: 720.00m



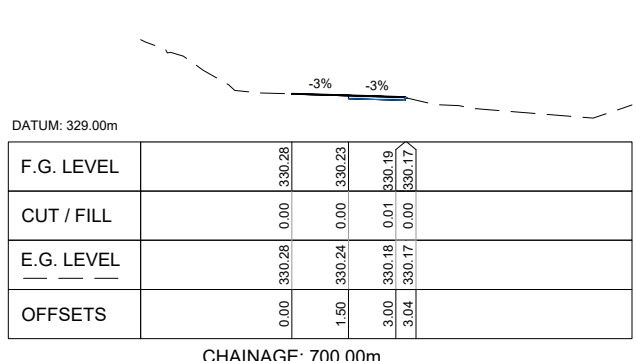
CHAINAGE: 780.00m



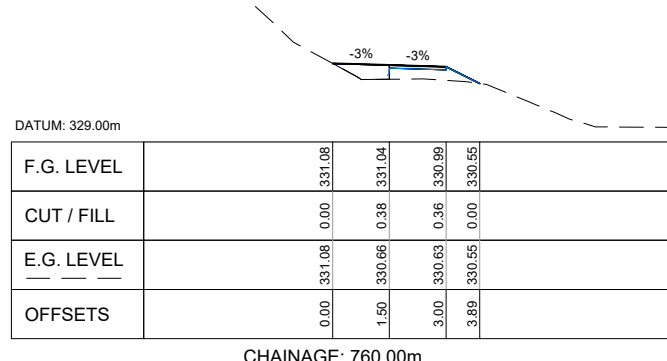
CHAINAGE: 840.00m



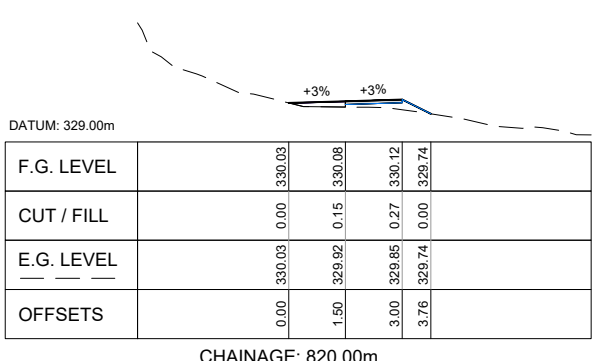
CHAINAGE: 640.00m



CHAINAGE: 700.00m



CHAINAGE: 760.00m



CHAINAGE: 820.00m

1:100 @ A1
1:200 @ A3

REVISION	AMENDMENT	APPROVED	DATE
A	DETAILED DESIGN ISSUED FOR CLIENT REVIEW	R. G.	2021-08-02
B	DETAILED DESIGN ISSUED FOR CLIENT APPROVAL	R. G.	2021-08-30
C	DETAILED DESIGN ISSUED FOR TENDER	R. G.	2021-10-22



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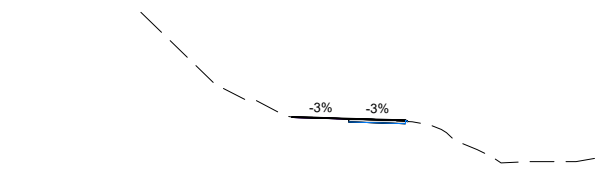
CIVIL

SCALES		ORIGINAL SIZE
1:100 @ A1		A1
DRAWN	DESIGNED	APPROVED
P. FIEREK	P. FIEREK	R. GILL
DRAWING VERIFIED	DESIGN VERIFIED	APPROVED DATE
S. FORBES	S. SHERLAW	2021-08-02

FOR TENDER

PROJECT		
QUEENSTOWN LAKES DISTRICT COUNCIL		
WAKATIPU ACTIVE TRAVEL		
WATN STAGE 2 ROUTES - ROUTE C5		
TITLE		
MATAKAURI PARK		
SECTION VIEWS - SHEET 3 OF 5		
WSP PROJECT NO.	PROJ-ORIG-VOL-LOC-TYPE	SHEET NO.
6-XQ141.00	6-XQ141-WSP-01-C5-DR	C248
		REVISION
		C

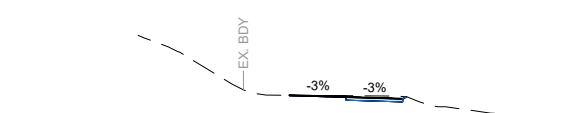
300 mm
200
100
50
0 10 mm
millimetre



DATUM: 328.00m

F.G. LEVEL		330.08	330.04	329.99	329.96
CUT / FILL		0.00	0.00	0.03	0.00
E.G. LEVEL		330.08	330.03	329.97	329.96
OFFSETS		0.00	1.50	3.00	3.06

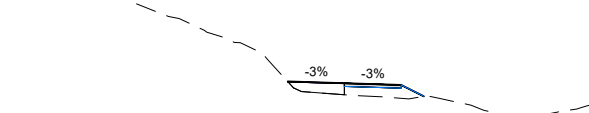
CHAINAGE: 940.00m



DATUM: 328.00m

F.G. LEVEL		329.18	329.13	329.09	329.13
CUT / FILL		0.00	-0.03	-0.06	0.00
E.G. LEVEL		329.18	329.16	329.14	329.13
OFFSETS		0.00	1.50	3.00	3.10

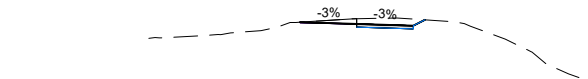
CHAINAGE: 1020.00m



DATUM: 328.00m

F.G. LEVEL		329.54	329.49	329.45	329.15
CUT / FILL		0.00	0.30	0.35	0.00
E.G. LEVEL		329.54	329.19	329.10	329.15
OFFSETS		0.00	1.50	3.00	3.60

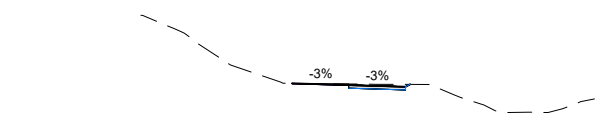
CHAINAGE: 1100.00m



DATUM: 329.00m

F.G. LEVEL		331.21	331.16	331.12	331.27
CUT / FILL		0.00	-0.14	-0.17	0.00
E.G. LEVEL		331.21	331.30	331.29	331.27
OFFSETS		0.00	1.50	3.00	3.31

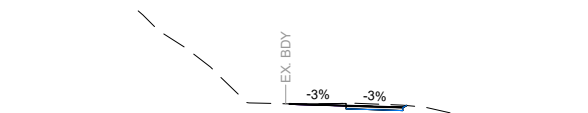
CHAINAGE: 1180.00m



DATUM: 328.00m

F.G. LEVEL		329.70	329.65	329.61	329.67
CUT / FILL		0.00	-0.03	-0.06	0.00
E.G. LEVEL		329.70	329.68	329.67	329.67
OFFSETS		0.00	1.50	3.00	3.12

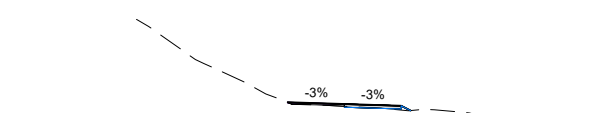
CHAINAGE: 920.00m



DATUM: 328.00m

F.G. LEVEL		329.15	329.11	329.06	329.11
CUT / FILL		0.00	-0.06	-0.06	0.00
E.G. LEVEL		329.15	329.17	329.12	329.11
OFFSETS		0.00	1.50	3.00	3.10

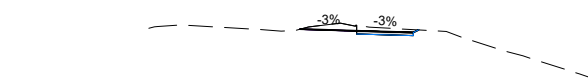
CHAINAGE: 1000.00m



DATUM: 328.00m

F.G. LEVEL		329.19	329.15	329.10	329.98
CUT / FILL		0.00	0.06	0.12	0.00
E.G. LEVEL		329.19	329.09	329.10	329.98
OFFSETS		0.00	1.50	3.00	3.25

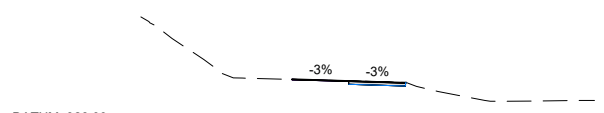
CHAINAGE: 1080.00m



DATUM: 329.00m

F.G. LEVEL		331.23	331.19	331.14	331.21
CUT / FILL		0.00	-0.15	-0.08	0.00
E.G. LEVEL		331.23	331.33	331.22	331.21
OFFSETS		0.00	1.50	3.00	3.14

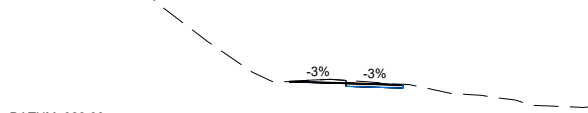
CHAINAGE: 1160.00m



DATUM: 328.00m

F.G. LEVEL		329.42	329.38	329.33	329.34
CUT / FILL		0.00	-0.01	-0.01	0.00
E.G. LEVEL		329.42	329.38	329.35	329.34
OFFSETS		0.00	1.50	3.00	3.02

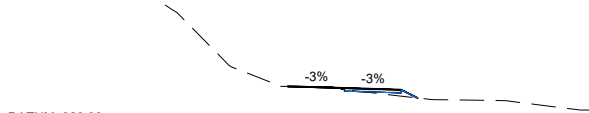
CHAINAGE: 900.00m



DATUM: 328.00m

F.G. LEVEL		329.37	329.32	329.28	329.29
CUT / FILL		0.00	-0.07	-0.01	0.00
E.G. LEVEL		329.37	329.40	329.29	329.29
OFFSETS		0.00	1.50	3.00	3.03

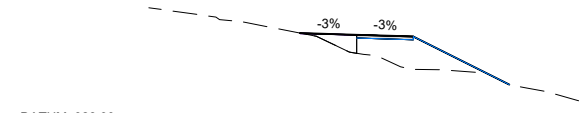
CHAINAGE: 980.00m



DATUM: 328.00m

F.G. LEVEL		329.24	329.20	329.15	328.93
CUT / FILL		0.00	0.03	0.17	0.00
E.G. LEVEL		329.24	329.16	329.08	328.93
OFFSETS		0.00	1.50	3.00	3.44

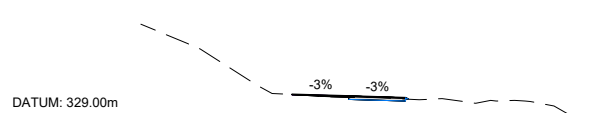
CHAINAGE: 1060.00m



DATUM: 328.00m

F.G. LEVEL		330.65	330.60	330.56	329.29
CUT / FILL		0.00	0.49	0.87	0.00
E.G. LEVEL		330.65	330.11	329.69	329.29
OFFSETS		0.00	1.50	3.00	5.54

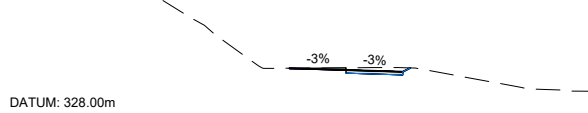
CHAINAGE: 1140.00m



DATUM: 329.00m

F.G. LEVEL		329.65	329.61	329.66	329.52
CUT / FILL		0.00	0.04	0.03	0.00
E.G. LEVEL		329.65	329.57	329.53	329.52
OFFSETS		0.00	1.50	3.00	3.07

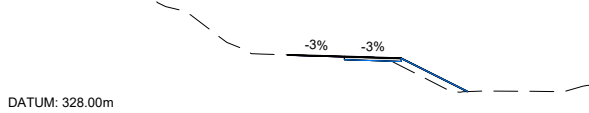
CHAINAGE: 880.00m



DATUM: 328.00m

F.G. LEVEL		329.34	329.30	329.25	329.35
CUT / FILL		0.00	-0.06	-0.11	0.00
E.G. LEVEL		329.34	329.35	329.36	329.35
OFFSETS		0.00	1.50	3.00	3.20

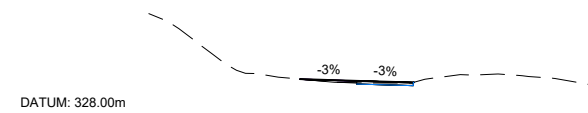
CHAINAGE: 960.00m



DATUM: 328.00m

F.G. LEVEL		329.70	329.65	329.61	328.73
CUT / FILL		0.00	0.00	0.21	0.00
E.G. LEVEL		329.70	329.65	329.40	328.73
OFFSETS		0.00	1.50	3.00	4.76

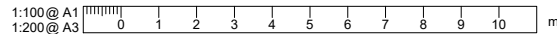
CHAINAGE: 1040.00m



DATUM: 328.00m

F.G. LEVEL		329.06	329.01	328.97	328.97
CUT / FILL		0.00	0.05	0.00	0.00
E.G. LEVEL		329.06	328.96	328.97	328.97
OFFSETS		0.00	1.50	3.00	3.01

CHAINAGE: 1120.00m



REVISION	AMENDMENT	APPROVED	DATE
A	DETAILED DESIGN ISSUED FOR CLIENT REVIEW	R. GILL	2021-08-02
B	DETAILED DESIGN ISSUED FOR CLIENT APPROVAL	R. GILL	2021-08-30
C	DETAILED DESIGN ISSUED FOR TENDER	R. GILL	2021-10-22



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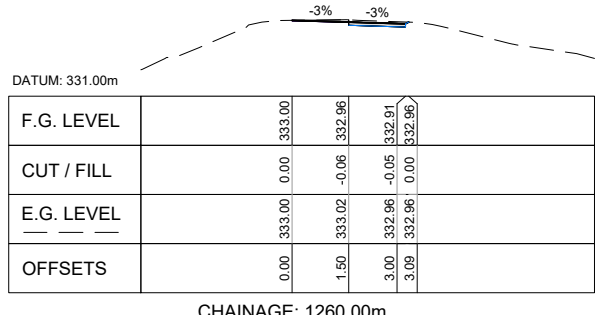
CIVIL

SCALES		ORIGINAL SIZE
1:100 @ A1		A1
DRAWN	DESIGNED	APPROVED
P. FIEREK	P. FIEREK	R. GILL
DRAWING VERIFIED	DESIGN VERIFIED	APPROVED DATE
S.FORBES	S.SHERLAW	2021-08-02

FOR TENDER

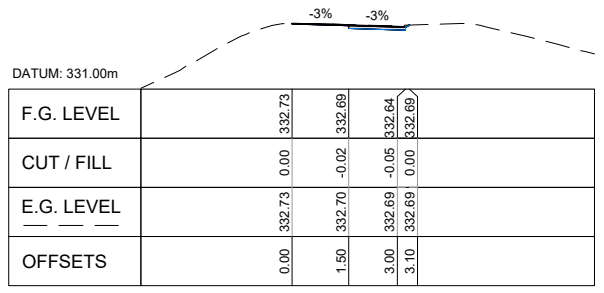
PROJECT		
QUEENSTOWN LAKES DISTRICT COUNCIL WAKATIPU ACTIVE TRAVEL WATN STAGE 2 ROUTES - ROUTE C5		
TITLE		
MATAKAURI PARK SECTION VIEWS - SHEET 4 OF 5		
WSP PROJECT NO.	PROJ-ORIG-VOL-LOC-TYPE	SHEET NO.
6-XQ141.00	6-XQ141-WSP-01-C5-DR	C249
		REVISION
		C

300 mm
200
100
50
0 10 mm



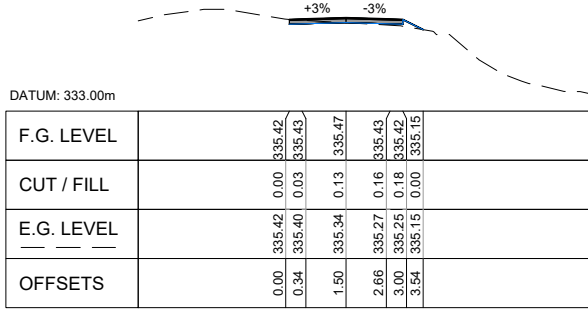
F.G. LEVEL		333.00	332.96	332.91	332.96
CUT / FILL		0.00	-0.06	-0.05	0.00
E.G. LEVEL		333.00	333.02	332.96	332.96
OFFSETS		0.00	1.50	3.00	3.09

CHAINAGE: 1260.00m



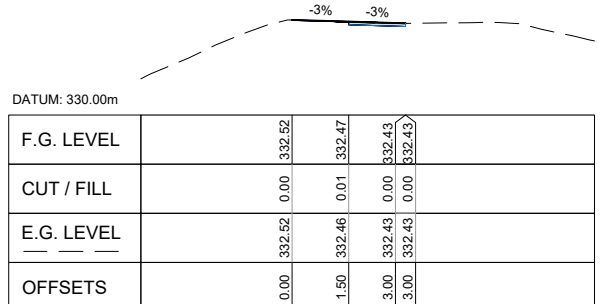
F.G. LEVEL		332.73	332.69	332.64	332.69
CUT / FILL		0.00	-0.02	-0.05	0.00
E.G. LEVEL		332.73	332.70	332.69	332.69
OFFSETS		0.00	1.50	3.00	3.10

CHAINAGE: 1240.00m



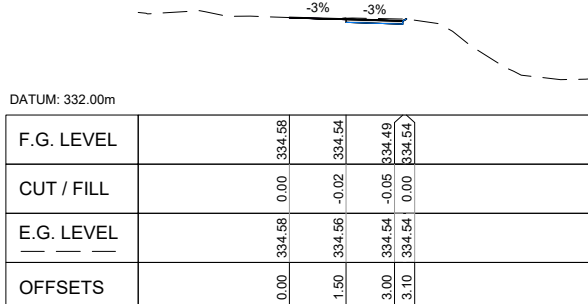
F.G. LEVEL		335.42	335.43	335.47	
CUT / FILL		0.00	0.03	0.13	
E.G. LEVEL		335.42	335.40	335.34	
OFFSETS		0.00	0.34	1.50	

CHAINAGE: 1312.22m



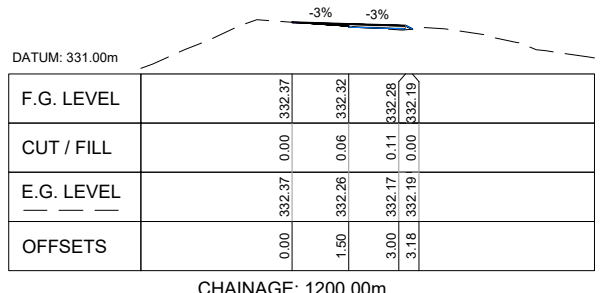
F.G. LEVEL		332.52	332.47	332.43	332.43
CUT / FILL		0.00	0.01	0.00	0.00
E.G. LEVEL		332.52	332.46	332.43	332.43
OFFSETS		0.00	1.50	3.00	3.00

CHAINAGE: 1220.00m



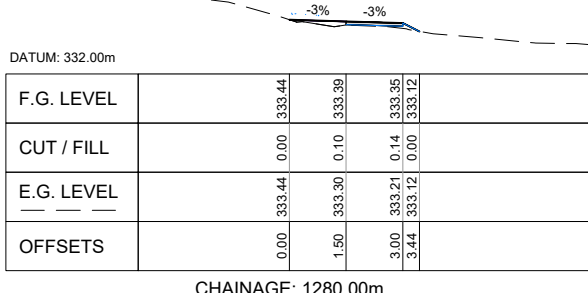
F.G. LEVEL		334.58	334.54	334.49	334.54
CUT / FILL		0.00	-0.02	-0.05	0.00
E.G. LEVEL		334.58	334.56	334.54	334.54
OFFSETS		0.00	1.50	3.00	3.10

CHAINAGE: 1300.00m



F.G. LEVEL		332.37	332.32	332.28	332.19
CUT / FILL		0.00	0.06	0.11	0.00
E.G. LEVEL		332.37	332.26	332.17	332.19
OFFSETS		0.00	1.50	3.00	3.18

CHAINAGE: 1200.00m



F.G. LEVEL		333.44	333.39	333.35	333.12
CUT / FILL		0.00	0.10	0.14	0.00
E.G. LEVEL		333.44	333.30	333.21	333.12
OFFSETS		0.00	1.50	3.00	3.44

CHAINAGE: 1280.00m

1:100 @ A1
1:200 @ A3



REVISION	AMENDMENT	APPROVED	DATE
A	DETAILED DESIGN ISSUED FOR CLIENT REVIEW	R. G.	2021-08-02
B	DETAILED DESIGN ISSUED FOR CLIENT APPROVAL	R. G.	2021-08-30
C	DETAILED DESIGN ISSUED FOR TENDER	R. G.	2021-10-22



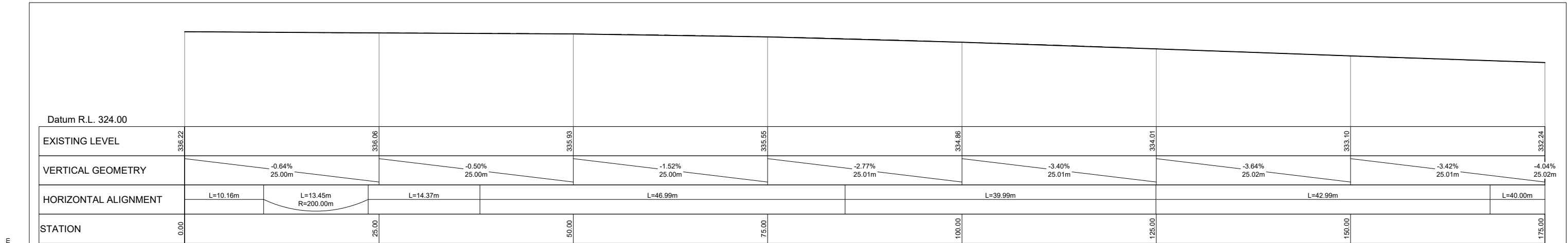
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New Zealand

CIVIL

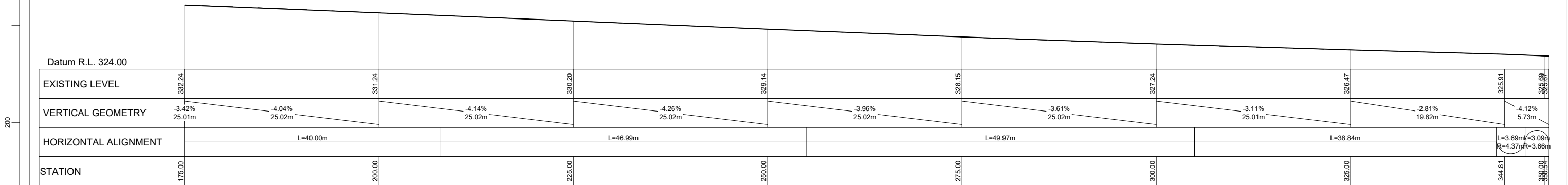
SCALES		ORIGINAL SIZE
1:100 @ A1		A1
1:200 @ A3		
DRAWN	DESIGNED	APPROVED
P. FIEREK	P. FIEREK	R. GILL
DRAWING VERIFIED	DESIGN VERIFIED	APPROVED DATE
S. FORBES	S. SHERLAW	2021-08-02

FOR TENDER

PROJECT			
QUEENSTOWN LAKES DISTRICT COUNCIL WAKATIPU ACTIVE TRAVEL WATN STAGE 2 ROUTES - ROUTE C5			
TITLE			
MATAKAURI PARK SECTION VIEWS - SHEET 5 OF 5			
WSP PROJECT NO.	PROJ-ORIG-VOL-LOC-TYPE	SHEET NO.	REVISION
6-QX141.00	6-QX141-WSP-01-C5-DR	C250	C



C5-GORGE RD - NEW EDGE OF SEAL
LONGSECTION BETWEEN CH: 0.00 AND 175.00



C5-GORGE RD - NEW EDGE OF SEAL
LONGSECTION BETWEEN CH: 175.00 AND 350.54

EDGE OF SEAL PROFILE
(REFER TO SHEETS C212 TO C214 FOR LOCATION)
SCALE 1:250(A1), 1:500(A3)

300 mm
200
100
50
0 10 mm

1:250 @ A1
1:500 @ A3

REVISION	AMENDMENT	APPROVED	DATE
A	DETAILED DESIGN ISSUED FOR CLIENT REVIEW	R. G.	2021-08-02
B	DETAILED DESIGN ISSUED FOR CLIENT APPROVAL	R. G.	2021-08-30
C	DETAILED DESIGN ISSUED FOR TENDER	R. G.	2021-10-22



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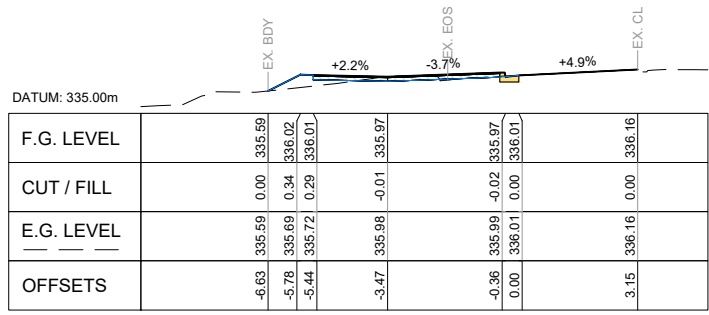
FOR TENDER

SCALES		ORIGINAL SIZE
1:250 @ A1		A1
DRAWN	DESIGNED	APPROVED
P. FIEREK	P. FIEREK	R. GILL
DRAWING VERIFIED	DESIGN VERIFIED	APPROVED DATE
S. FORBES	S. SHERLAW	2021-08-02

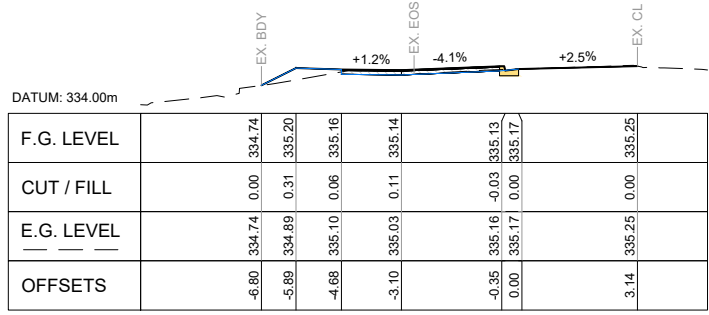
FOR CLIENT APPROVAL

PROJECT			
QUEENSTOWN LAKES DISTRICT COUNCIL			
WAKATIPU ACTIVE TRAVEL			
WATN STAGE 2 ROUTES - ROUTE C5			
TITLE			
GORGE ROAD (MARAKAURI PARK TO ZEBRA CROSSING)			
EDGE OF SEAL PROFILE - SHEET 1 OF 1			
WSP PROJECT NO.	PROJ-ORIG-VOL-LOC-TYPE	SHEET NO.	REVISION
6-XQ141.00	6-XQ141-WSP-01-C5-DR	C255	C

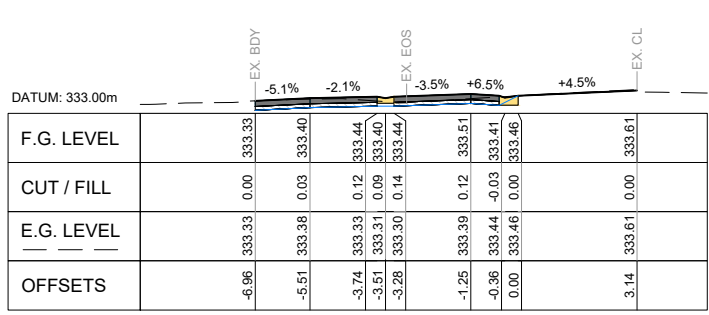
300 mm
200
100
50
0 10 mm



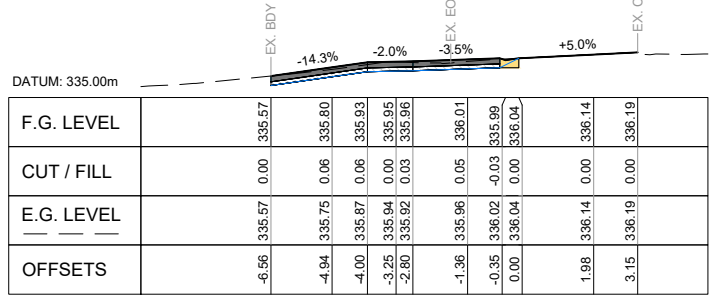
CHAINAGE: 40.00m



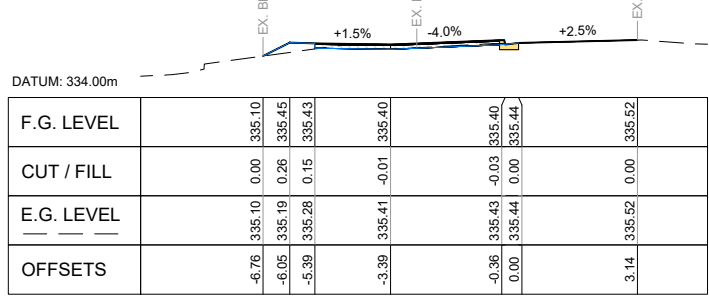
CHAINAGE: 90.00m



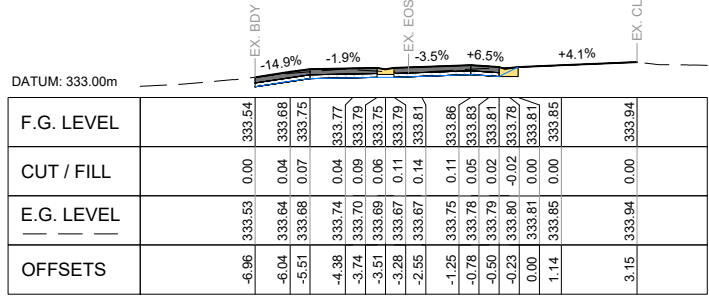
CHAINAGE: 140.00m



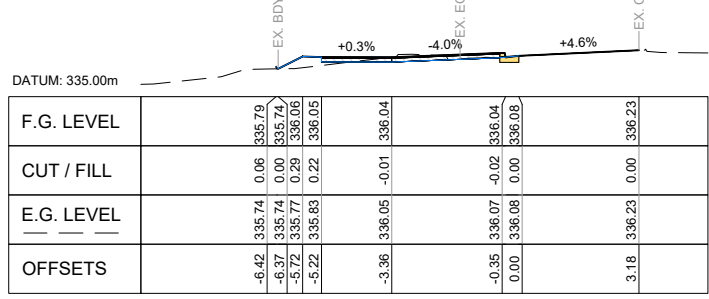
CHAINAGE: 32.63m



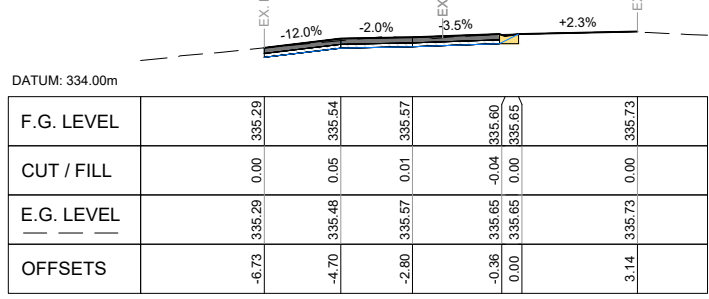
CHAINAGE: 80.00m



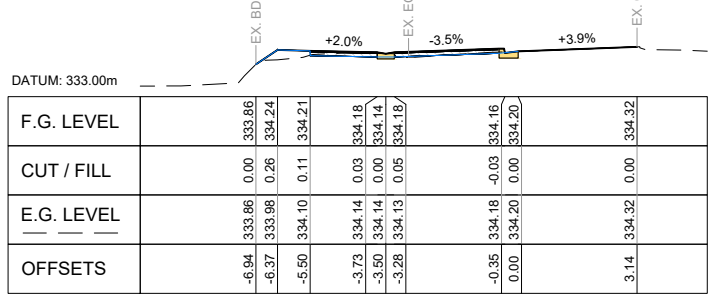
CHAINAGE: 130.40m



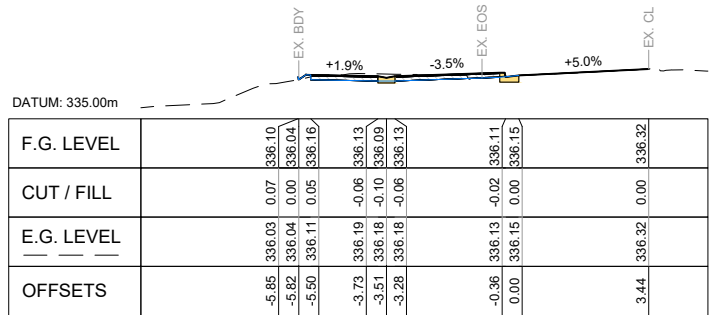
CHAINAGE: 20.00m



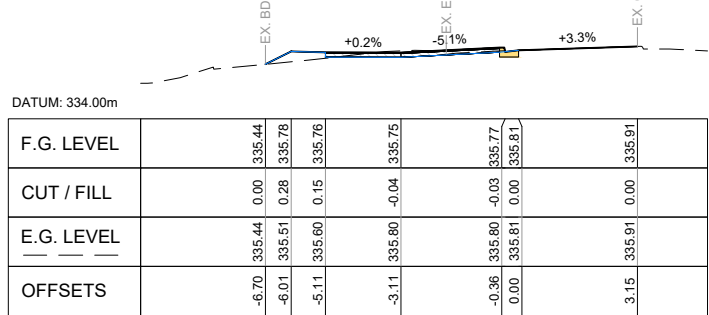
CHAINAGE: 70.00m



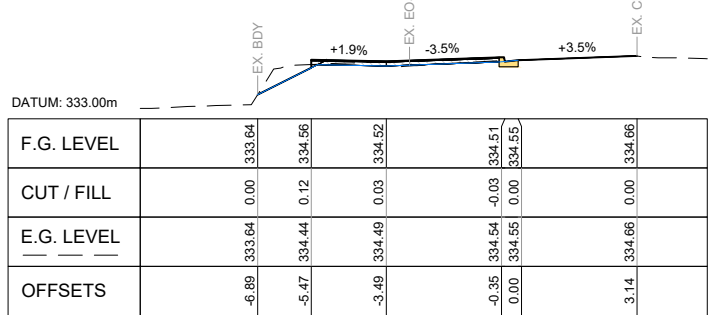
CHAINAGE: 120.00m



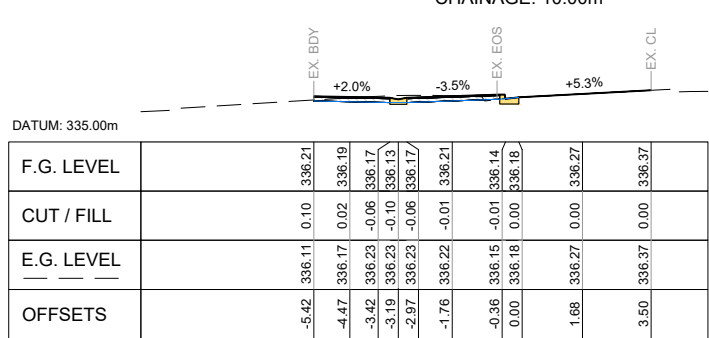
CHAINAGE: 10.00m



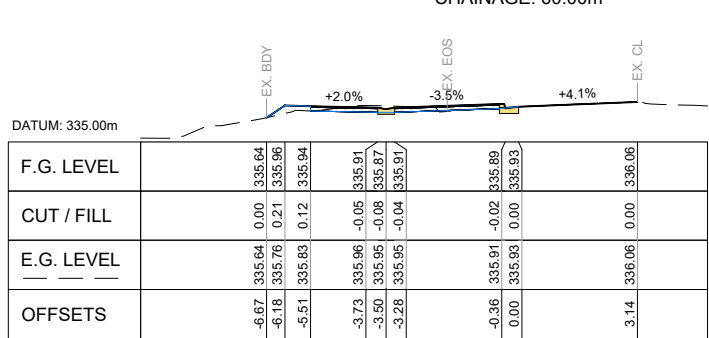
CHAINAGE: 60.00m



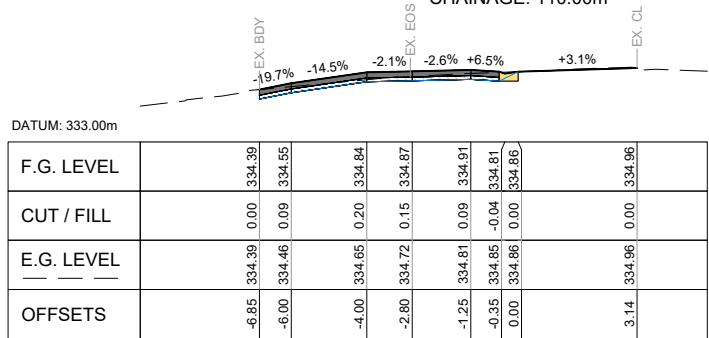
CHAINAGE: 110.00m



CHAINAGE: 5.00m



CHAINAGE: 50.00m



CHAINAGE: 100.00m

1:100@ A1
1:200@ A3

REVISION	AMENDMENT	APPROVED	DATE
A	DETAILED DESIGN ISSUED FOR CLIENT REVIEW	R. G.	2021-08-02
B	DETAILED DESIGN ISSUED FOR CLIENT APPROVAL	R. G.	2021-08-30
C	DETAILED DESIGN ISSUED FOR TENDER	R. G.	2021-10-22



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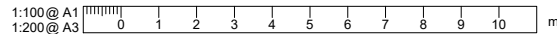
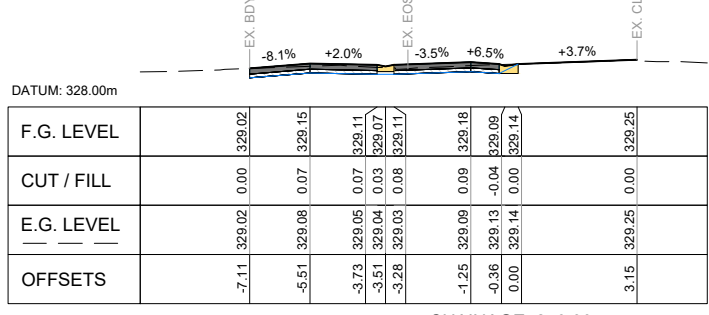
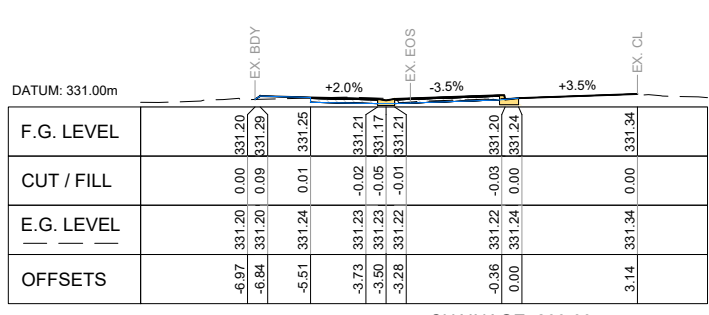
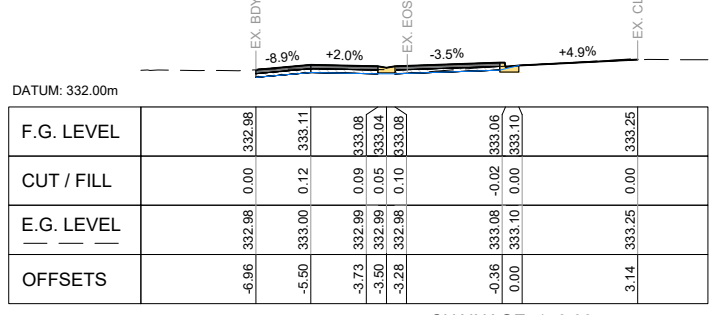
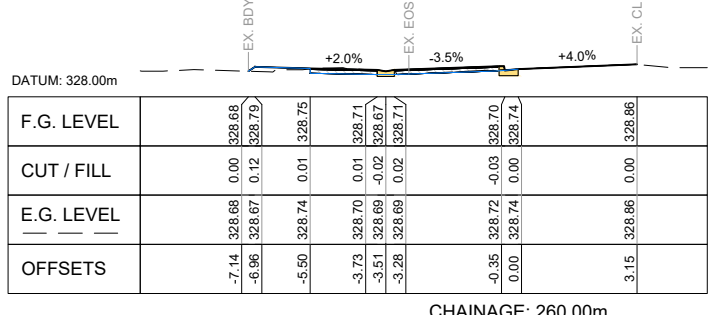
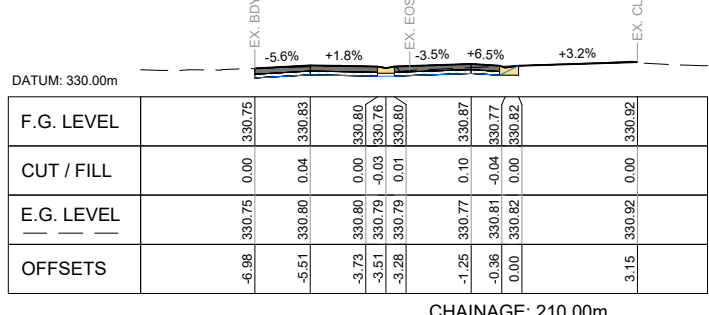
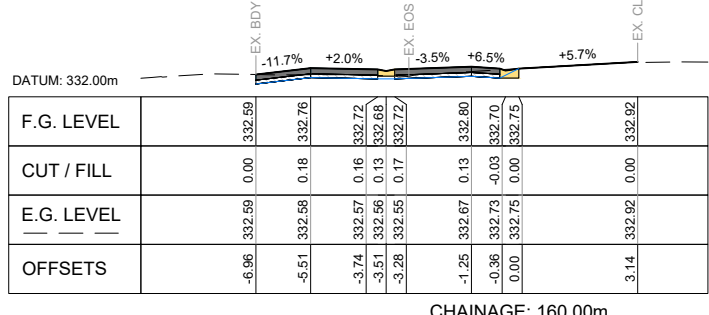
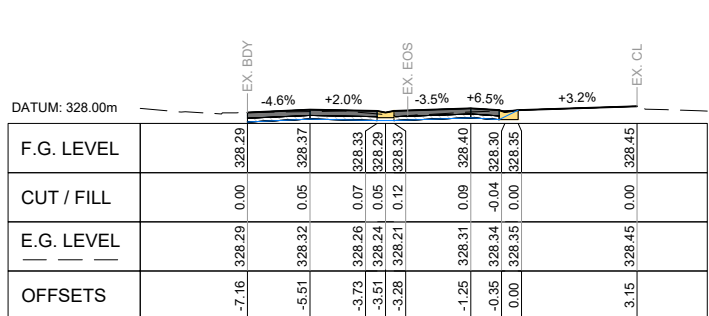
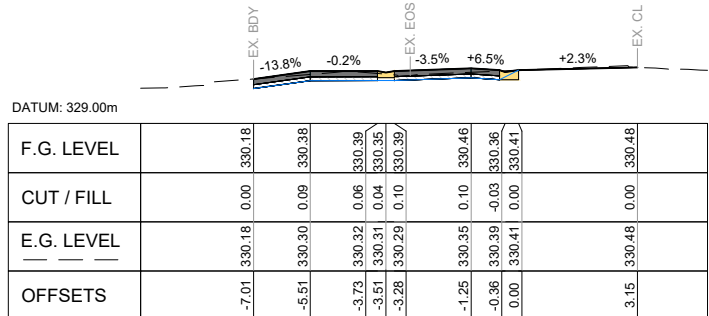
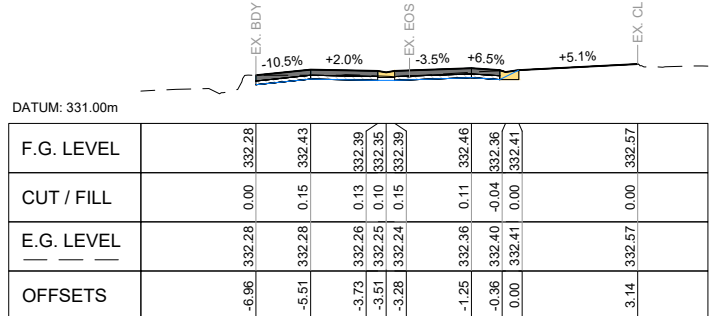
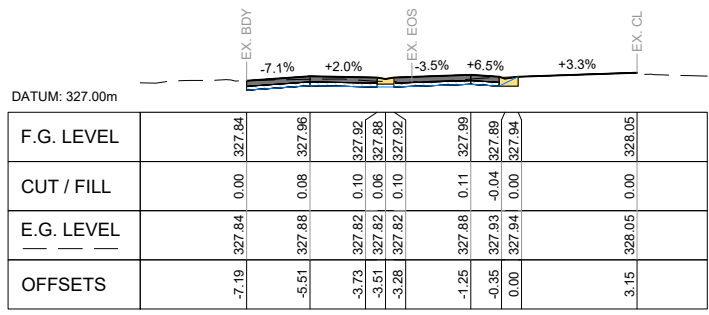
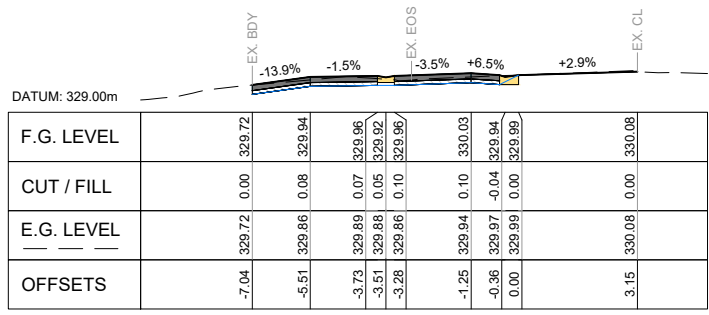
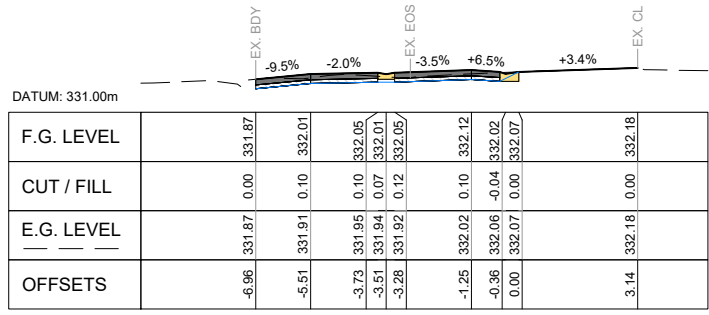
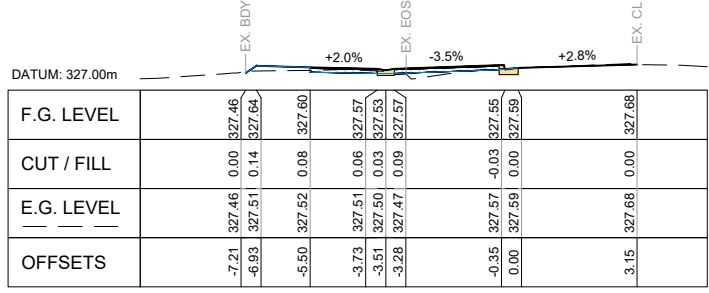
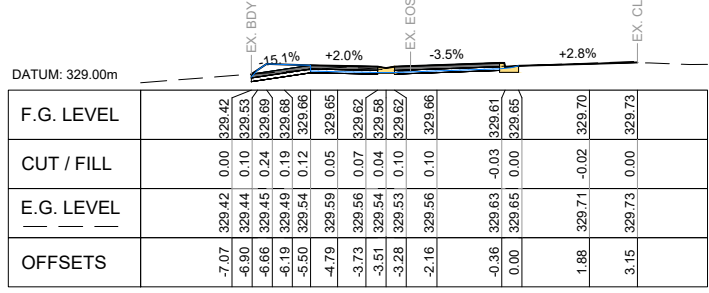
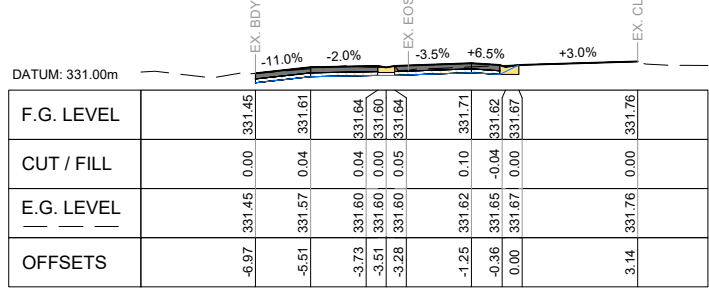
CIVIL

SCALES	DESIGNED	APPROVED	ORIGINAL SIZE
1:100 @ A1	P. FIEREK	R. GILL	A1
DRAWN	DESIGNED	APPROVED	
P. FIEREK	P. FIEREK	R. GILL	
DRAWING VERIFIED	DESIGN VERIFIED	APPROVED DATE	
S. FORBES	S. SHERLAW	2021-08-02	

FOR TENDER

PROJECT			
QUEENSTOWN LAKES DISTRICT COUNCIL			
WAKATIPU ACTIVE TRAVEL			
WATN STAGE 2 ROUTES - ROUTE C5			
TITLE			
GORGE ROAD (MATAKAURI PARK TO ZEBRA CROSSING)			
SECTION VIEWS - SHEET 1 OF 3			
WSP PROJECT NO.	PROJ-ORIG-VOL-LOC-TYPE	SHEET NO.	REVISION
6-XQ141.00	6-XQ141-WSP-01-C5-DR	C256	C

300 mm
200
100
50
0 10 mm
millimetre



REVISION	AMENDMENT	APPROVED	DATE
A	DETAILED DESIGN ISSUED FOR CLIENT REVIEW	R. G.	2021-08-02
B	DETAILED DESIGN ISSUED FOR CLIENT APPROVAL	R. G.	2021-08-30
C	DETAILED DESIGN ISSUED FOR TENDER	R. G.	2021-10-22



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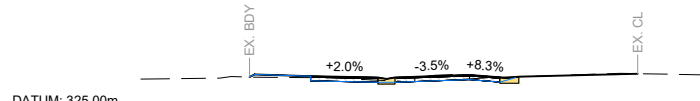
CIVIL

SCALES		ORIGINAL SIZE	
1:100 @ A1		A1	
DESIGNED	P. FIEREK	APPROVED	R. GILL
DRAWN	P. FIEREK	DESIGN VERIFIED	S. SHERLAW
DRAWING VERIFIED	S. FORBES	APPROVED DATE	2021-08-02

FOR TENDER

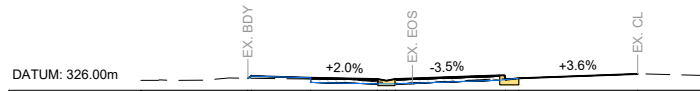
PROJECT			
QUEENSTOWN LAKES DISTRICT COUNCIL			
WAKATIPU ACTIVE TRAVEL			
WATN STAGE 2 ROUTES - ROUTE C5			
TITLE			
GORGE ROAD (MATAKAURI PARK TO ZEBRA CROSSING)			
SECTION VIEWS - SHEET 2 OF 3			
WSP PROJECT NO.	PROJ-ORIG-VOL-LOC-TYPE	SHEET NO.	REVISION
6-XQ141.00	6-XQ141-WSP-01-C5-DR	C257	C

300 mm
200
100
50
0 10 mm



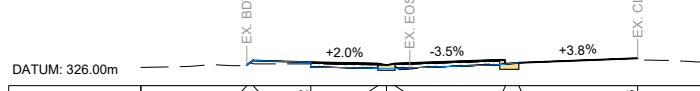
DATUM: 325.00m	
F.G. LEVEL	326.03 326.03 326.10 326.05
CUT / FILL	0.00 0.07 0.04
E.G. LEVEL	326.03 326.03 326.01 326.05
OFFSETS	-7.13 -6.99 -5.50 -3.73 -3.50 -3.28 -1.30 -0.35 0.00 1.86 2.60 3.14

CHAINAGE: 340.00m



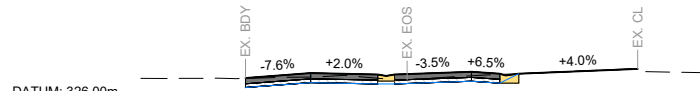
DATUM: 326.00m	
F.G. LEVEL	326.32 326.32 326.33 326.30 326.26 326.30 326.28 326.32 326.43
CUT / FILL	0.00 0.06 0.04 0.08 0.05 0.11 -0.03 0.00 0.00
E.G. LEVEL	326.32 326.32 326.30 326.22 326.20 326.19 326.31 326.32 326.43
OFFSETS	-7.17 -7.08 -5.51 -3.73 -3.51 -3.28 -0.35 0.00 3.14

CHAINAGE: 330.00m



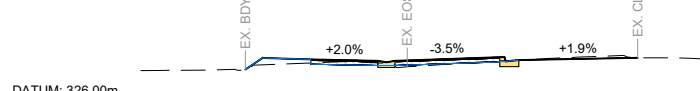
DATUM: 326.00m	
F.G. LEVEL	326.55 326.67 326.62 326.58 326.54 326.54 326.57 326.61 326.73
CUT / FILL	0.00 0.06 0.04 0.04 0.01 0.06 -0.03 0.00 0.00
E.G. LEVEL	326.55 326.58 326.58 326.54 326.53 326.52 326.59 326.61 326.73
OFFSETS	-7.20 -7.03 -5.51 -3.73 -3.51 -3.28 -0.35 0.00 3.14

CHAINAGE: 320.00m



DATUM: 326.00m	
F.G. LEVEL	326.79 326.92 326.88 326.84 326.88 326.85 326.90 327.03
CUT / FILL	0.00 0.11 0.10 0.08 0.14 0.11 -0.04 0.00
E.G. LEVEL	326.79 326.81 326.78 326.77 326.74 326.85 326.89 327.03
OFFSETS	-7.23 -5.51 -3.73 -3.51 -3.28 -1.25 -0.35 0.00 3.14

CHAINAGE: 310.00m



DATUM: 326.00m	
F.G. LEVEL	326.99 327.29 327.26 327.22 327.18 327.22 327.20 327.24 327.30
CUT / FILL	0.00 0.18 0.09 0.05 0.02 0.12 -0.02 0.00 0.00
E.G. LEVEL	326.99 327.12 327.16 327.17 327.16 327.10 327.23 327.24 327.30
OFFSETS	-7.24 -6.78 -5.50 -3.73 -3.51 -3.28 -0.35 0.00 3.15

CHAINAGE: 300.00m



DATUM: 325.00m	
F.G. LEVEL	325.77 325.63 325.67
CUT / FILL	0.00 -0.02 0.00
E.G. LEVEL	325.77 325.65 325.67
OFFSETS	-1.69 -0.35 0.00

CHAINAGE: 350.54m

1:100 @ A1
1:200 @ A3

REVISION	AMENDMENT	APPROVED	DATE
A	DETAILED DESIGN ISSUED FOR CLIENT REVIEW	R.G.	2021-08-02
B	DETAILED DESIGN ISSUED FOR CLIENT APPROVAL	R.G.	2021-08-30
C	DETAILED DESIGN ISSUED FOR TENDER	R.G.	2021-10-22



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Queenstown 9300
New Zealand

CIVIL

SCALES		ORIGINAL SIZE
1:100 @ A1		A1
DRAWN	DESIGNED	APPROVED
P. FIEREK	P. FIEREK	R. GILL
DRAWING VERIFIED	DESIGN VERIFIED	APPROVED DATE
S. FORBES	S. SHERLAW	2021-08-02

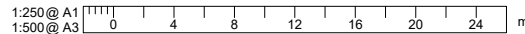
FOR TENDER

PROJECT			
QUEENSTOWN LAKES DISTRICT COUNCIL WAKATIPU ACTIVE TRAVEL WATN STAGE 2 ROUTES - ROUTE C5			
TITLE			
GORGE ROAD (MATAKAURI PARK TO ZEBRA CROSSING) SECTION VIEWS - SHEET 3 OF 3			
WSP PROJECT NO.	PROJ-ORIG-VOL-LOC-TYPE	SHEET NO.	REVISION
6-QX141.00	6-QX141-WSP-01-C5-DR	C258	C

STATION	0.00	4.71	10.00	20.00	30.00	40.00	40.21	50.00	50.21	56.80	60.00	60.21	70.00	70.00	80.00	80.00	82.67	90.00	94.09	100.00	102.53	110.00	112.01	114.70	118.29	120.00	120.00	124.90	129.20	
EXISTING LEVEL	326.14	326.13	326.00	325.73	325.54	325.39	325.39	325.29	325.29	325.28	325.32	325.32	325.45	325.45	325.64	325.64	325.69	326.03	326.23	326.49	326.61	326.93	326.98	327.02	326.98	326.90	326.90	326.71	326.48	
VERTICAL GEOMETRY		-0.26% 4.71m	-2.42% 5.29m	-2.70% 10.00m	-1.85% 10.00m	-1.49% 10.21m	-0.97% 10.00m	-0.24% 6.60m	1.24% 3.40m	1.34% 9.79m	1.87% 10.00m	1.87% 2.68m	4.72% 11.42m	4.50% 8.45m	3.96% 9.49m	1.38% 2.69m	-1.16% 3.59m	-4.36% 1.71m	-3.88% 4.91m	-5.46% 4.30m										
HORIZONTAL ALIGNMENT		L=2.90m R=4.11m	L=3.61m R=5.12m	L=24.29m	L=10.41m R=10.00m		L=37.86m			L=11.65m	L=3.92m R=100.00m		L=25.57m			L=8.97m R=10.09m		L=10.01m R=26.15m												

EDGE OF SEAL - GORGE ROAD AT HORNE CREEK
LONGSECTION BETWEEN CH: 0.00 AND 129.20

EDGE OF SEAL PROFILE
(REFER TO SHEET C214 FOR LOCATION)
SCALE 1:250(A1), 1:500(A3)



REVISION	AMENDMENT	APPROVED	DATE
A	DETAILED DESIGN ISSUED FOR CLIENT REVIEW	R. G.	2021-08-02
B	DETAILED DESIGN ISSUED FOR CLIENT APPROVAL	R. G.	2021-08-30
C	DETAILED DESIGN ISSUED FOR TENDER	R. G.	2021-10-22



wsp
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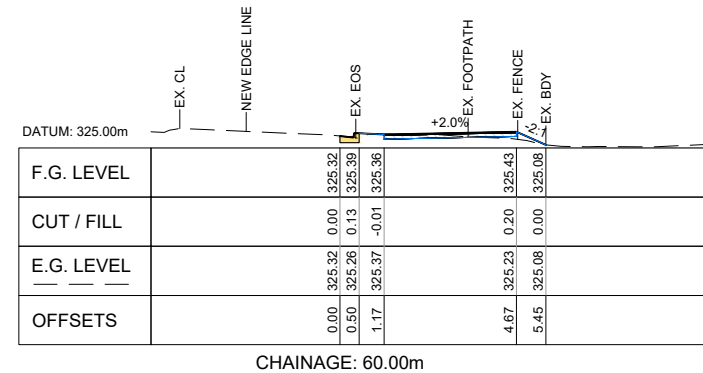
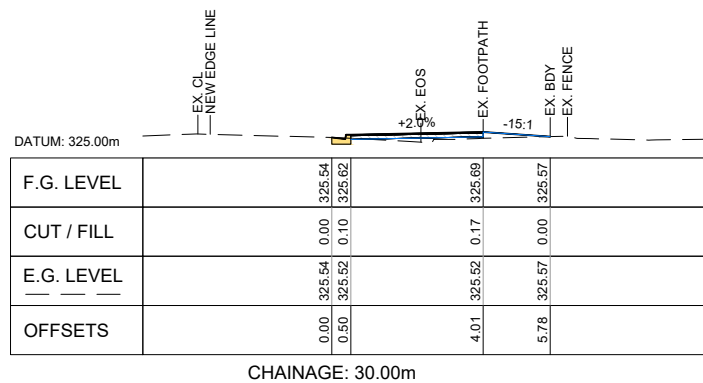
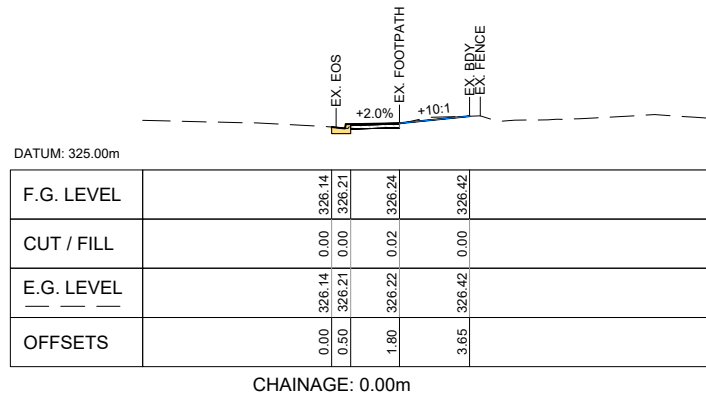
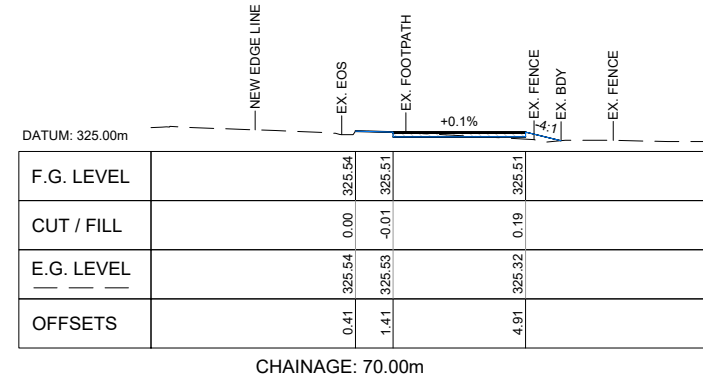
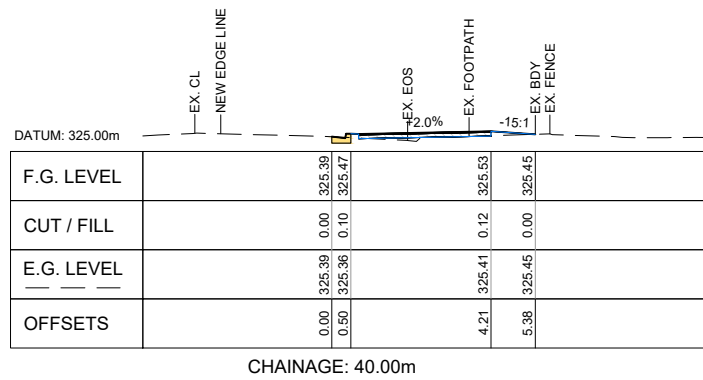
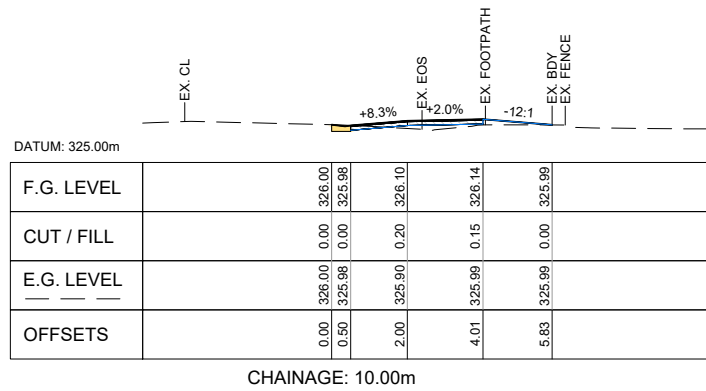
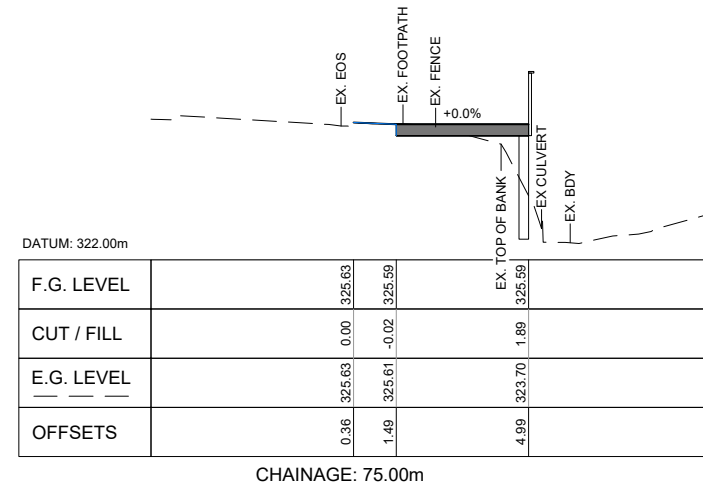
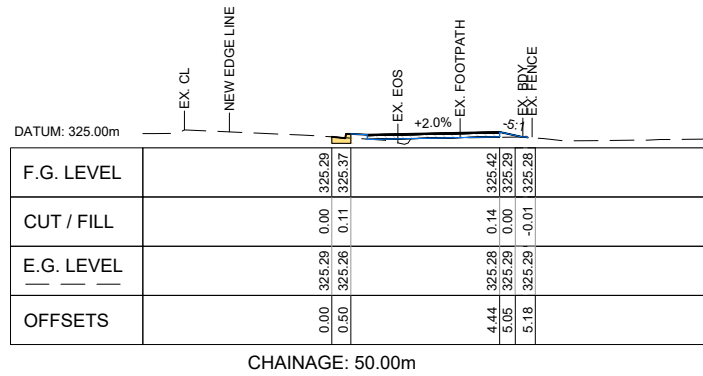
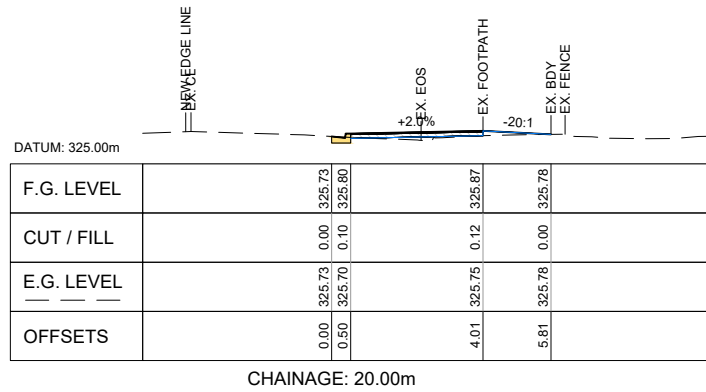
CIVIL

SCALES	DESIGNED	APPROVED	ORIGINAL SIZE
1:250 @ A1	P. FIEREK	R. GILL	A1
DRAWN	DESIGNED	APPROVED	
P. FIEREK	P. FIEREK	R. GILL	
DRAWING VERIFIED	DESIGN VERIFIED	APPROVED DATE	
S. FORBES	S. SHERLAW	2021-08-02	

FOR TENDER

PROJECT			
QUEENSTOWN LAKES DISTRICT COUNCIL WAKATIPU ACTIVE TRAVEL WATN STAGE 2 ROUTES - ROUTE C5			
TITLE			
GORGE ROAD (AT HORNE CREEK) EDGE OF SEAL PROFILE - SHEET 1 OF 1			
WSP PROJECT NO.	PROJ-ORIG-VOL-LOC-TYPE	SHEET NO.	REVISION
6-XQ141.00	6-XQ141-WSP-01-C5-DR	C260	C

300 mm
200
100
50
0 10 mm



1:100 @ A1
1:200 @ A3

REVISION	AMENDMENT	APPROVED	DATE
A	DETAILED DESIGN ISSUED FOR CLIENT REVIEW	R. G.	2021-08-02
B	DETAILED DESIGN ISSUED FOR CLIENT APPROVAL	R. G.	2021-08-30
C	DETAILED DESIGN ISSUED FOR TENDER	R. G.	2021-10-22



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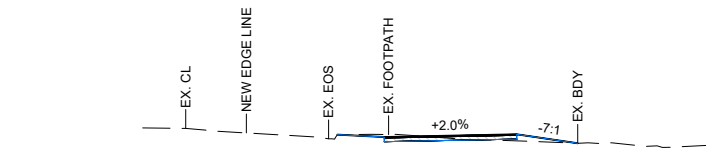
CIVIL

SCALES		ORIGINAL SIZE
1:100 @ A1		A1
DRAWN	DESIGNED	APPROVED
P. FIEREK	P. FIEREK	R. GILL
DRAWING VERIFIED	DESIGN VERIFIED	APPROVED DATE
S. FORBES	S. SHERLAW	2021-08-02

FOR TENDER

PROJECT		
QUEENSTOWN LAKES DISTRICT COUNCIL WAKATIPU ACTIVE TRAVEL WATN STAGE 2 ROUTES - ROUTE C5		
TITLE		
GORGE ROAD (AT HORNE CREEK) SECTION VIEWS - SHEET 1 OF 2		
WSP PROJECT NO.	PROJ-ORIG-VOL-LOC-TYPE	SHEET NO.
6-XQ141.00	6-XQ141-WSP-01-C5-DR	C261
		REVISION
		C

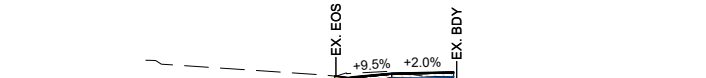
300 mm
200
100
50
0 10 mm



DATUM: 325.00m

F.G. LEVEL			326.14	326.08	326.15	325.92
CUT / FILL		0.00	-0.06	0.17	0.00	
E.G. LEVEL		326.14	326.15	325.98	325.92	
OFFSETS		0.15	1.40	4.90	6.51	

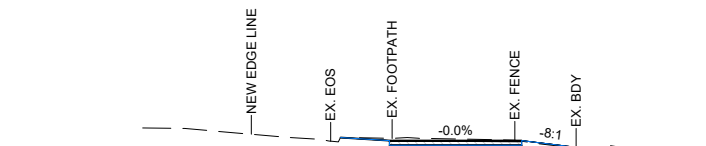
CHAINAGE: 90.00m



DATUM: 326.00m

F.G. LEVEL			326.79	326.77	326.86	326.89
CUT / FILL		0.00	-0.10	-0.05	0.21	
E.G. LEVEL		326.79	326.86	326.91	326.88	
OFFSETS		0.00	0.50	1.50	3.14	

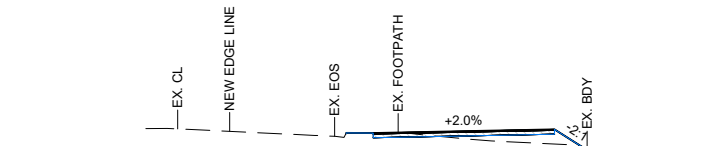
CHAINAGE: 123.00m



DATUM: 325.00m

F.G. LEVEL			325.89	325.82	325.82
CUT / FILL		0.00	-0.06	0.02	
E.G. LEVEL		325.89	325.87	325.80	
OFFSETS		0.24	1.53	5.03	

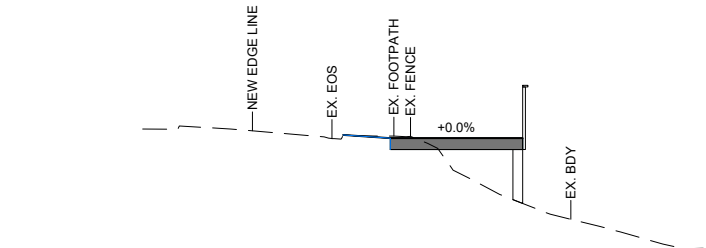
CHAINAGE: 85.00m



DATUM: 326.00m

F.G. LEVEL			327.00	327.01	327.06	327.11
CUT / FILL		0.00	-0.01	0.16	0.39	0.00
E.G. LEVEL		327.00	327.02	326.90	326.72	326.56
OFFSETS		0.30	1.02	3.06	5.80	6.65

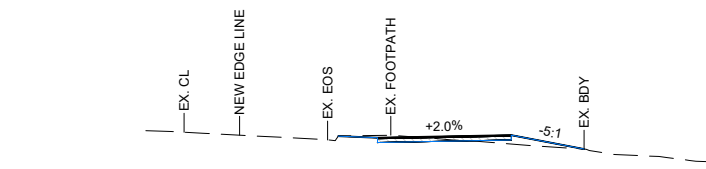
CHAINAGE: 110.00m



DATUM: 322.00m

F.G. LEVEL			325.73	325.65	325.65
CUT / FILL		0.00	-0.05	1.73	1.73
E.G. LEVEL		325.73	325.70	323.92	323.92
OFFSETS		0.31	1.55	5.05	5.05

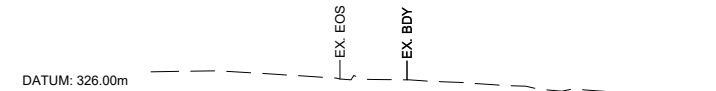
CHAINAGE: 80.00m



DATUM: 325.00m

F.G. LEVEL			326.61	326.57	326.64	326.27
CUT / FILL		0.00	-0.06	0.23	0.00	
E.G. LEVEL		326.61	326.63	326.40	326.27	
OFFSETS		0.09	1.13	4.67	6.59	

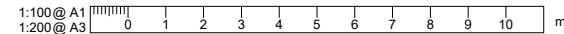
CHAINAGE: 100.00m



DATUM: 326.00m

F.G. LEVEL				
CUT / FILL				
E.G. LEVEL				
OFFSETS				

CHAINAGE: 129.20m



REVISION	AMENDMENT	APPROVED	DATE
A	DETAILED DESIGN ISSUED FOR CLIENT REVIEW	R. G.	2021-08-02
B	DETAILED DESIGN ISSUED FOR CLIENT APPROVAL	R. G.	2021-08-30
C	DETAILED DESIGN ISSUED FOR TENDER	R. G.	2021-10-22



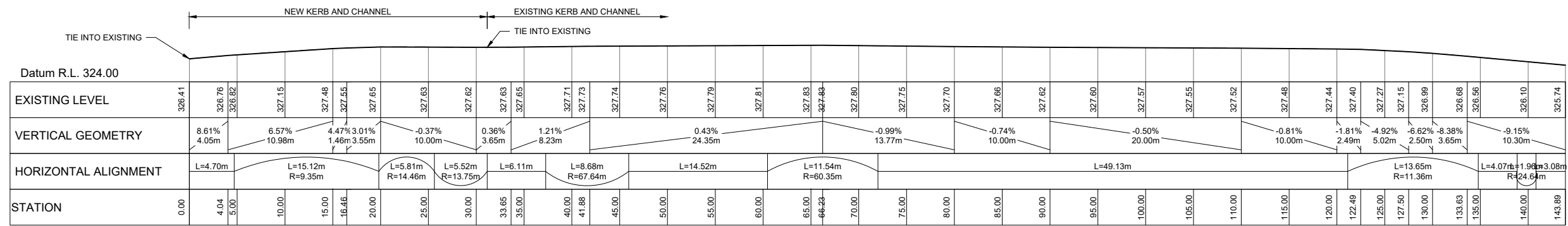
WSP
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+64 3 451 0360
PO Box 2323
Queenstown 9300
New Zealand

CIVIL

SCALES		ORIGINAL SIZE
1:100 @ A1		A1
DRAWN	DESIGNED	APPROVED
P. FIEREK	P. FIEREK	R. GILL
DRAWING VERIFIED	DESIGN VERIFIED	APPROVED DATE
S. FORBES	S. SHERLAW	2021-08-02

FOR TENDER

PROJECT			
QUEENSTOWN LAKES DISTRICT COUNCIL WAKATIPU ACTIVE TRAVEL WATN STAGE 2 ROUTES - ROUTE C5			
TITLE			
GORGE ROAD (AT HORNE CREEK) SECTION VIEWS - SHEET 2 OF 2			
WSP PROJECT NO.	PROJ-ORIG-VOL-LOC-TYPE	SHEET NO.	REVISION
6-XQ141.00	6-XQ141-WSP-01-C5-DR	C262	C



EDGE OF SEAL - HYLTON PLACE TO ROBINS ROAD
LONGSECTION BETWEEN CH: 0.00 AND 143.89

EDGE OF SEAL PROFILE
(REFER TO SHEET C214 AND C215 FOR LOCATION)
SCALE 1:250(A1), 1:500(A3)

300 mm
200
100
50
0 10 mm

1:250 @ A1
1:500 @ A3

REVISION	AMENDMENT	APPROVED	DATE
A	DETAILED DESIGN ISSUED FOR CLIENT REVIEW	R. G.	2021-08-02
B	DETAILED DESIGN ISSUED FOR CLIENT APPROVAL	R. G.	2021-08-30
C	DETAILED DESIGN ISSUED FOR TENDER	R. G.	2021-10-22



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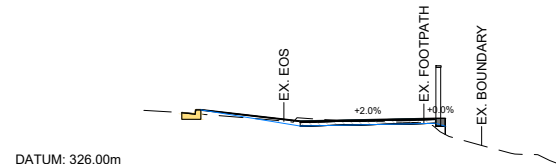
CIVIL

SCALES		ORIGINAL SIZE
1:250 @ A1		A1
DRAWN	DESIGNED	APPROVED
P. FIEREK	P. FIEREK	R. GILL
DRAWING VERIFIED	DESIGN VERIFIED	APPROVED DATE
S. FORBES	S. SHERLAW	2021-08-02

FOR TENDER

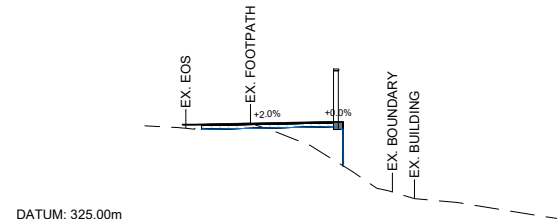
PROJECT			
QUEENSTOWN LAKES DISTRICT COUNCIL WAKATIPU ACTIVE TRAVEL WATN STAGE 2 ROUTES - ROUTE C5			
TITLE			
GORGE ROAD (HYLTON PLACE TO ROBINS ROAD) EDGE OF SEAL PROFILE - SHEET 1 OF 1			
WSP PROJECT NO.	PROJ-ORIG-VOL-LOC-TYPE	SHEET NO.	REVISION
6-XQ141.00	6-XQ141-WSP-01-C5-DR	C270	C

300 mm
200
100
50
0 10 mm



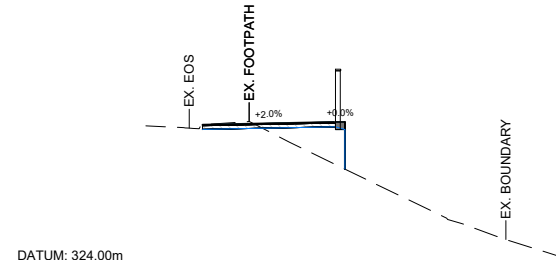
DATUM: 326.00m	
F.G. LEVEL	0.00 327.65 0.00 327.61
CUT / FILL	0.00 327.65 0.00 327.61
E.G. LEVEL	0.00 327.65 0.00 327.61
OFFSETS	0.00 0.35 3.14 6.73 6.96

CHAINAGE: 20.00m



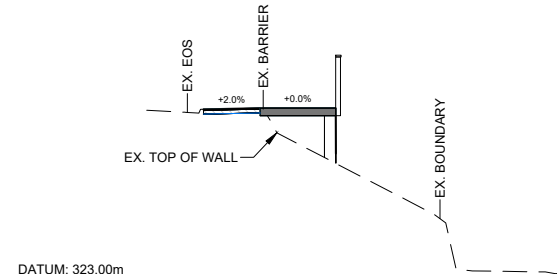
DATUM: 325.00m	
F.G. LEVEL	0.00 327.70 0.09 327.79 3.99 326.86 4.24 326.70 4.24 326.70
CUT / FILL	0.00 327.70 0.09 327.79 3.99 326.86 4.24 326.70 4.24 326.70
E.G. LEVEL	0.00 327.70 0.09 327.79 3.99 326.86 4.24 326.70 4.24 326.70
OFFSETS	0.00 0.23 0.50 3.99 4.24 4.24

CHAINAGE: 40.00m



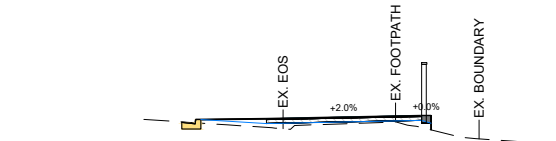
DATUM: 324.00m	
F.G. LEVEL	0.50 327.87 4.02 326.82 4.27 326.70 4.27 326.70
CUT / FILL	0.00 327.87 1.12 327.94 1.24 327.94 0.00 326.70
E.G. LEVEL	0.50 327.87 4.02 326.82 4.27 326.70 4.27 326.70
OFFSETS	0.50 4.02 4.27 4.27

CHAINAGE: 70.00m



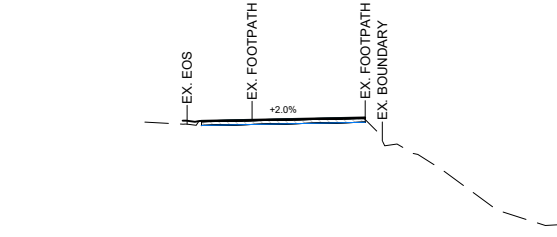
DATUM: 323.00m	
F.G. LEVEL	0.50 327.65 2.00 327.66 4.00 326.22 4.00 326.22
CUT / FILL	0.00 327.65 0.02 327.66 1.46 327.68 0.26 326.48
E.G. LEVEL	0.50 327.65 2.00 327.66 4.00 326.22 4.00 326.22
OFFSETS	0.50 2.00 4.00 4.00

CHAINAGE: 100.00m



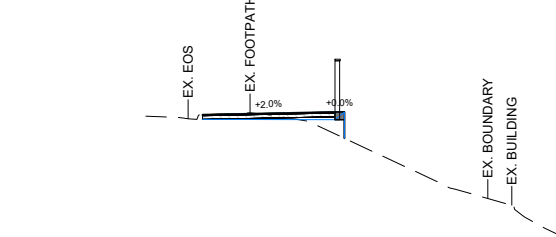
DATUM: 326.00m	
F.G. LEVEL	0.00 327.17 0.01 327.15 0.35 327.15 2.24 327.02 6.35 327.02 6.60 326.96
CUT / FILL	-0.01 327.15 -0.03 327.11 0.23 327.25 0.32 327.33 0.38 327.33
E.G. LEVEL	0.00 327.17 0.01 327.15 0.35 327.15 2.24 327.02 6.35 327.02 6.60 326.96
OFFSETS	0.00 0.35 2.24 6.35 6.60

CHAINAGE: 10.00m



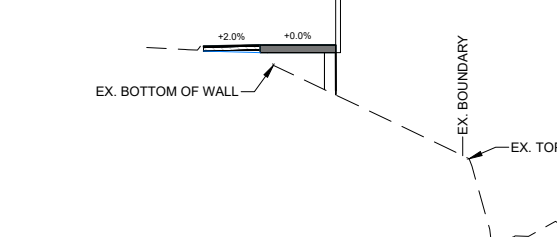
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F.G. LEVEL	0.00 327.85 0.09 327.74 0.31 327.62 4.83 327.77
CUT / FILL	0.09 327.74 0.09 327.71 0.06 327.82
E.G. LEVEL	0.00 327.85 0.09 327.74 0.31 327.62 4.83 327.77
OFFSETS	0.00 0.31 4.83

CHAINAGE: 35.00m



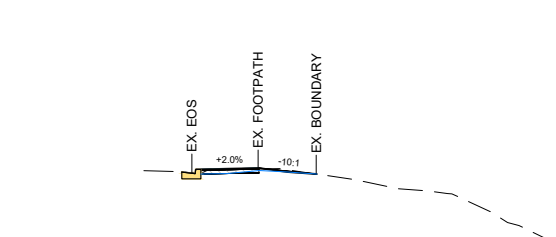
DATUM: 324.00m	
F.G. LEVEL	0.50 327.90 4.00 327.39 4.25 327.28 4.25 327.28
CUT / FILL	0.00 327.90 0.58 327.97 0.69 327.97 0.00 327.28
E.G. LEVEL	0.50 327.90 4.00 327.39 4.25 327.28 4.25 327.28
OFFSETS	0.50 4.00 4.25 4.25

CHAINAGE: 60.00m



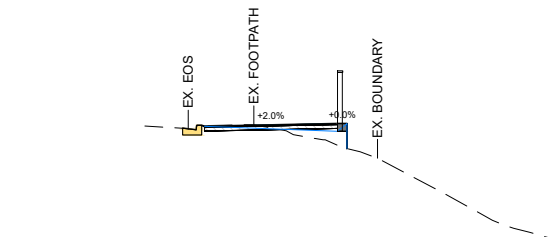
DATUM: 322.00m	
F.G. LEVEL	0.50 327.71 2.00 327.72 4.00 326.42 4.00 326.42
CUT / FILL	0.00 327.74 0.02 327.74 1.32 327.74 0.12 326.54
E.G. LEVEL	0.50 327.71 2.00 327.72 4.00 326.42 4.00 326.42
OFFSETS	0.50 2.00 4.00 4.00

CHAINAGE: 90.00m



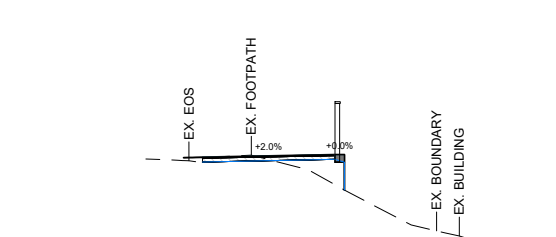
DATUM: 324.00m	
F.G. LEVEL	0.00 326.46 0.36 326.43 1.20 326.52 2.06 326.54 2.79 326.52 3.57 326.40
CUT / FILL	-0.01 326.43 0.02 326.54 0.02 326.56 -0.06 326.46 0.00 326.40
E.G. LEVEL	0.00 326.46 0.36 326.43 1.20 326.52 2.06 326.54 2.79 326.52 3.57 326.40
OFFSETS	0.00 0.36 1.20 2.06 2.79 3.57

CHAINAGE: 0.50m



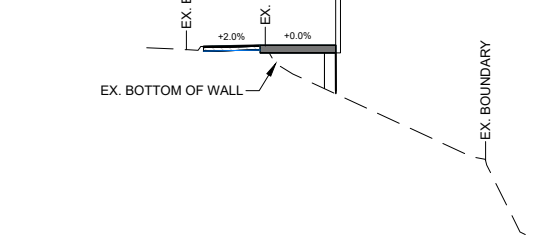
DATUM: 324.00m	
F.G. LEVEL	0.00 327.62 0.35 327.57 0.58 327.69 4.10 327.16 4.35 327.08 4.35 327.08
CUT / FILL	0.00 327.62 0.00 327.62 0.00 327.58 0.57 327.74 0.66 327.74 0.00 327.08
E.G. LEVEL	0.00 327.62 0.35 327.57 0.58 327.69 4.10 327.16 4.35 327.08 4.35 327.08
OFFSETS	0.00 0.35 0.58 4.10 4.35 4.35

CHAINAGE: 30.00m



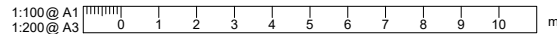
DATUM: 325.00m	
F.G. LEVEL	0.00 327.76 0.23 327.74 0.50 327.85 4.01 327.12 4.26 326.98 4.26 326.98
CUT / FILL	0.08 327.84 0.10 327.84 0.00 327.85 0.80 327.82 0.94 327.92 0.00 326.98
E.G. LEVEL	0.00 327.76 0.23 327.74 0.50 327.85 4.01 327.12 4.26 326.98 4.26 326.98
OFFSETS	0.00 0.23 0.50 4.01 4.26 4.26

CHAINAGE: 50.00m



DATUM: 322.00m	
F.G. LEVEL	0.50 327.78 2.00 327.79 4.00 326.53 4.00 326.53
CUT / FILL	0.00 327.78 0.02 327.81 1.28 327.81 0.08 326.61
E.G. LEVEL	0.50 327.78 2.00 327.79 4.00 326.53 4.00 326.53
OFFSETS	0.50 2.00 4.00 4.00

CHAINAGE: 80.00m



REVISION	AMENDMENT	APPROVED	DATE
A	DETAILED DESIGN ISSUED FOR CLIENT REVIEW	R. G.	2021-08-02
B	DETAILED DESIGN ISSUED FOR CLIENT APPROVAL	R. G.	2021-08-30
C	DETAILED DESIGN ISSUED FOR TENDER	R. G.	2021-10-22



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New Zealand

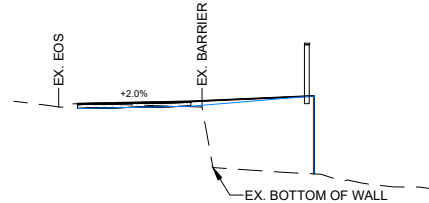
CIVIL

SCALES 1:100 @ A1	DESIGNED P. FIEREK	APPROVED H. ATTWELL
DRAWN P. FIEREK	DESIGN VERIFIED S. SHERLAW	APPROVED DATE 2021-08-02

FOR TENDER

PROJECT QUEENSTOWN LAKES DISTRICT COUNCIL WAKATIPU ACTIVE TRAVEL WATN STAGE 2 ROUTES - ROUTE C5	ORIGINAL SIZE A1
TITLE GORGE ROAD (HYLTON PLACE TO ROBINS ROAD) SECTION VIEWS - SHEET 1 OF 2	
WSP PROJECT NO. 6-XQ141.00	PROJ-ORIG-VOL-LOC-TYPE 6-XQ141-WSP-01-C5-DR
SHEET NO. C271	REVISION C

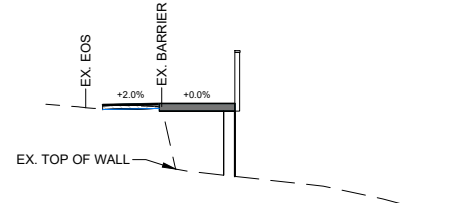
300 mm
200
100
50
0 10 mm



DATUM: 324.00m

F.G. LEVEL			
CUT / FILL	0.00	0.14	2.06
E.G. LEVEL	327.04	326.87	325.19
OFFSETS	0.68	3.68	6.94

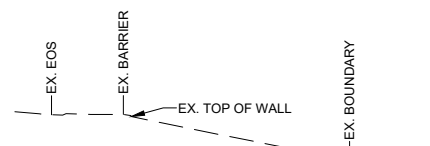
CHAINAGE: 130.00m



DATUM: 324.00m

F.G. LEVEL			
CUT / FILL	0.00	0.08	1.93
E.G. LEVEL	327.52	327.47	325.62
OFFSETS	0.50	2.00	4.00

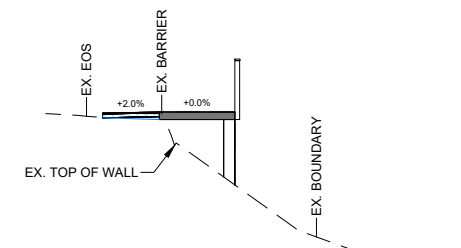
CHAINAGE: 120.00m



DATUM: 324.00m

F.G. LEVEL	
CUT / FILL	
E.G. LEVEL	
OFFSETS	

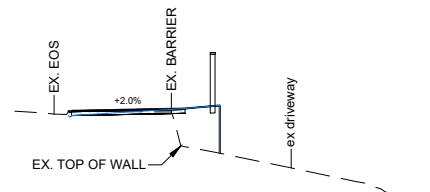
CHAINAGE: 143.89m



DATUM: 323.00m

F.G. LEVEL	
CUT / FILL	
E.G. LEVEL	
OFFSETS	

CHAINAGE: 110.00m



DATUM: 323.00m

F.G. LEVEL			
CUT / FILL	0.02	1.01	1.26
E.G. LEVEL	326.18	326.24	326.32
OFFSETS	0.42	3.50	4.42

CHAINAGE: 140.00m

1:100 @ A1
1:200 @ A3

REVISION	AMENDMENT	APPROVED	DATE
A	DETAILED DESIGN ISSUED FOR CLIENT REVIEW	R. G.	2021-08-02
B	DETAILED DESIGN ISSUED FOR CLIENT APPROVAL	R. G.	2021-08-30
C	DETAILED DESIGN ISSUED FOR TENDER	R. G.	2021-10-22



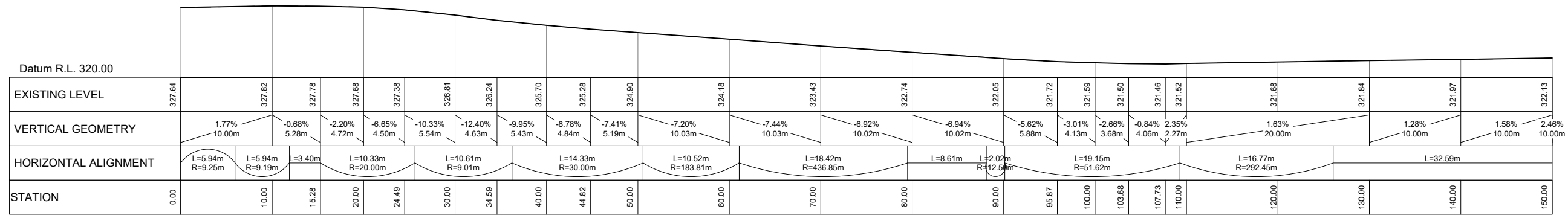
wsp
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New Zealand

CIVIL

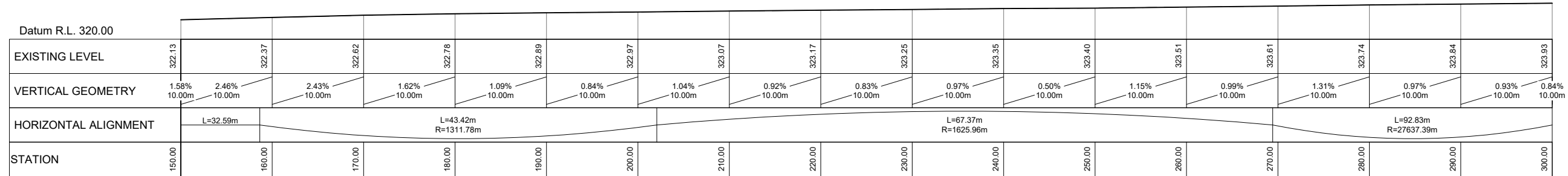
SCALES		ORIGINAL SIZE
1:100 @ A1		A1
DRAWN	DESIGNED	APPROVED
P. FIEREK	P. FIEREK	R. GILL
DRAWING VERIFIED	DESIGN VERIFIED	APPROVED DATE
S. FORBES	S. SHERLAW	2021-08-02

FOR TENDER

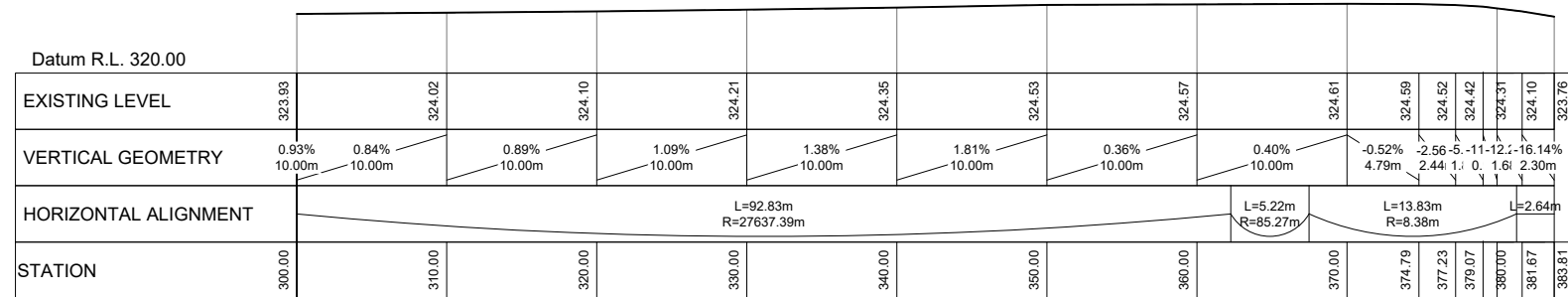
PROJECT		
QUEENSTOWN LAKES DISTRICT COUNCIL WAKATIPU ACTIVE TRAVEL WATN STAGE 2 ROUTES - ROUTE C5		
TITLE		
GORGE ROAD (HYLTON PLACE TO ROBINS ROAD) SECTION VIEWS - SHEET 2 OF 2		
WSP PROJECT NO.	PROJ-ORIG-VOL-LOC-TYPE	SHEET NO.
6-XQ141.00	6-XQ141-WSP-01-C5-DR	C272
		REVISION
		C



EDGE OF SEAL - ROBINS ROAD
LONGSECTION BETWEEN CH: 0.00 AND 150.00



EDGE OF SEAL - ROBINS ROAD
LONGSECTION BETWEEN CH: 150.00 AND 300.00



EDGE OF SEAL - ROBINS ROAD
LONGSECTION BETWEEN CH: 300.00 AND 383.81

EDGE OF SEAL PROFILE
(REFER TO SHEET C215 AND C218 FOR LOCATION)
SCALE 1:250(A1), 1:500(A3)

300 mm
200
100
50
0 10 mm

1:250 @ A1
1:500 @ A3

REVISION	AMENDMENT	APPROVED	DATE
A	DETAILED DESIGN ISSUED FOR CLIENT REVIEW	R. G.	2021-08-02
B	DETAILED DESIGN ISSUED FOR CLIENT APPROVAL	R. G.	2021-08-30
C	DETAILED DESIGN ISSUED FOR TENDER	R. G.	2021-10-22



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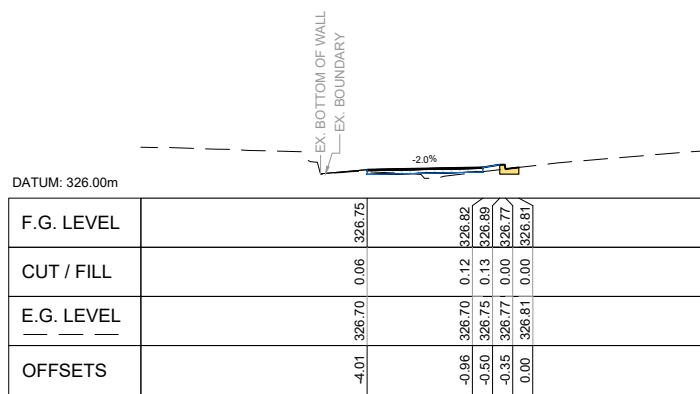
CIVIL

SCALES	DESIGNED	APPROVED
1:250 @ A1	P. FIEREK	R. GILL
ORIGINAL SIZE A1	P. FIEREK	R. GILL
DRAWN	DESIGNED	APPROVED
P. FIEREK	P. FIEREK	R. GILL
DRAWING VERIFIED	DESIGN VERIFIED	APPROVED DATE
S. FORBES	S. SHERLAW	2021-08-02

FOR TENDER

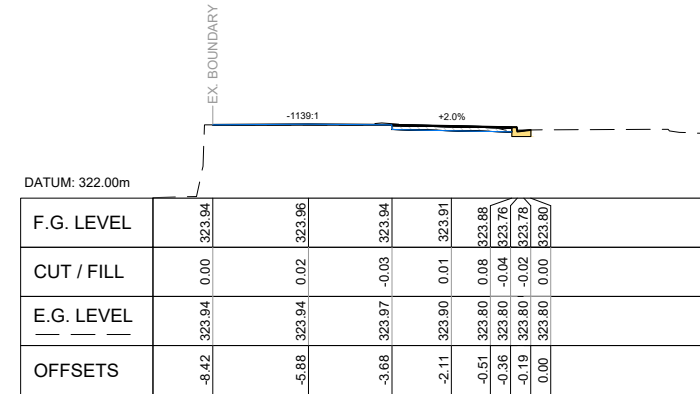
PROJECT		SHEET NO.	
QUEENSTOWN LAKES DISTRICT COUNCIL WAKATIPU ACTIVE TRAVEL WATN STAGE 2 ROUTES - ROUTE C5		C280	
TITLE		REVISION	
ROBINS ROAD EDGE OF SEAL PROFILES - SHEET 1 OF 1		C	
WSP PROJECT NO. 6-XQ141.00	PROJ-ORIG-VOL-LOC-TYPE 6-XQ141-WSP-01-C5-DR	SHEET NO. C280	REVISION C

300 mm
200
100
50
0 10 mm



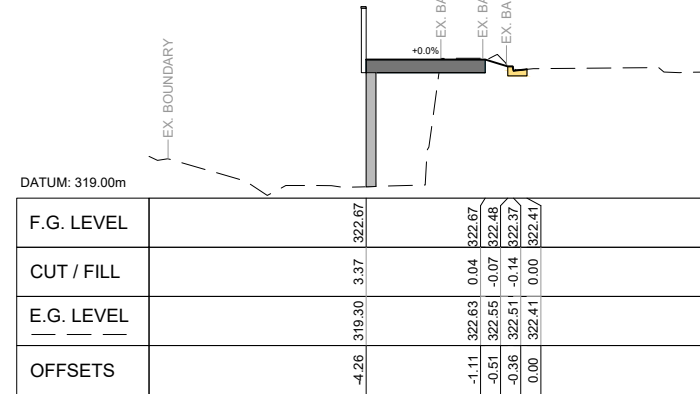
F.G. LEVEL				
CUT / FILL				
E.G. LEVEL				
OFFSETS				

CHAINAGE: 30.00m



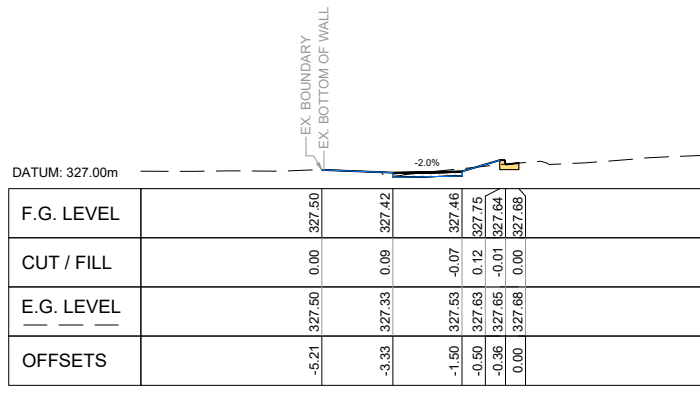
F.G. LEVEL							
CUT / FILL							
E.G. LEVEL							
OFFSETS							

CHAINAGE: 65.00m



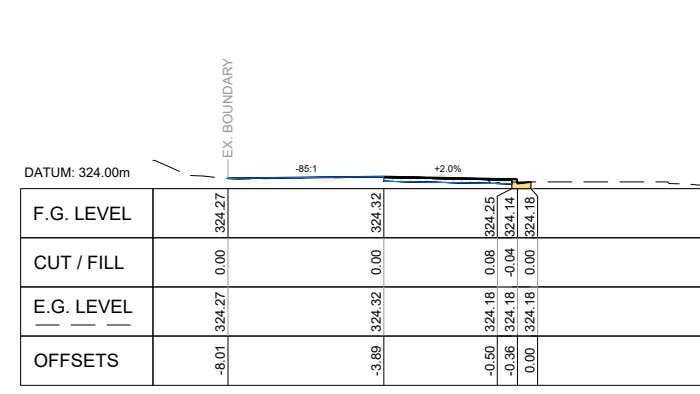
F.G. LEVEL				
CUT / FILL				
E.G. LEVEL				
OFFSETS				

CHAINAGE: 85.00m



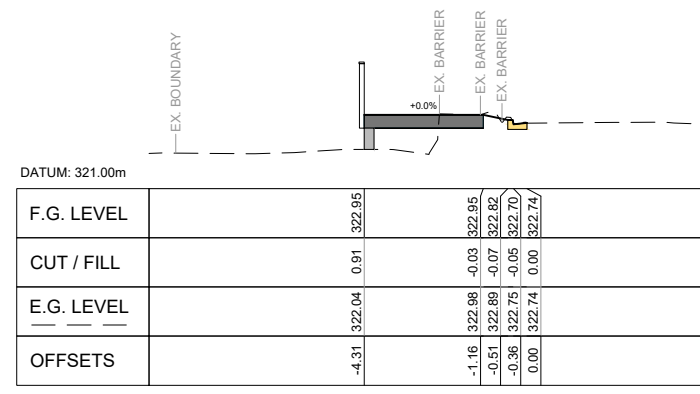
F.G. LEVEL				
CUT / FILL				
E.G. LEVEL				
OFFSETS				

CHAINAGE: 20.00m



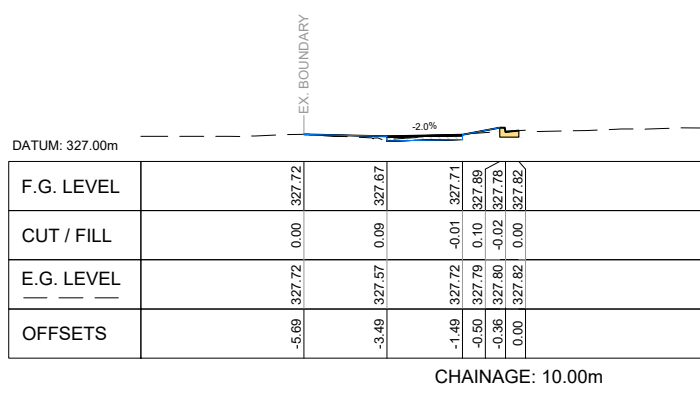
F.G. LEVEL					
CUT / FILL					
E.G. LEVEL					
OFFSETS					

CHAINAGE: 60.00m



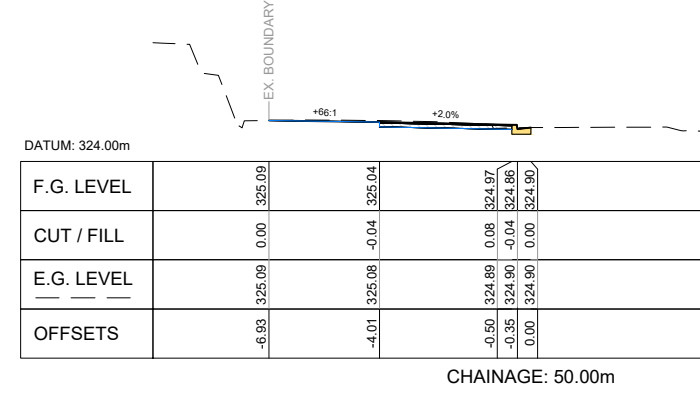
F.G. LEVEL				
CUT / FILL				
E.G. LEVEL				
OFFSETS				

CHAINAGE: 80.00m



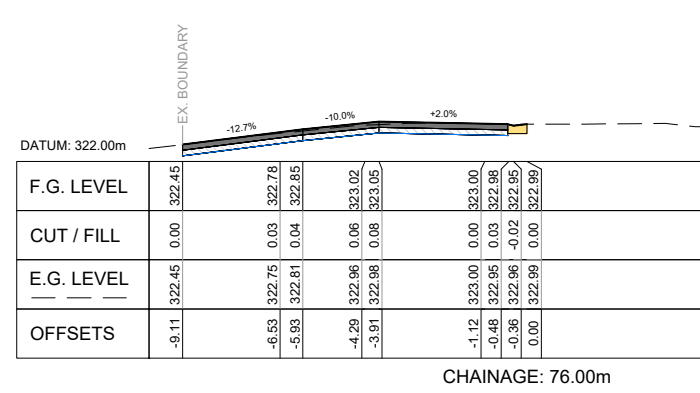
F.G. LEVEL				
CUT / FILL				
E.G. LEVEL				
OFFSETS				

CHAINAGE: 10.00m



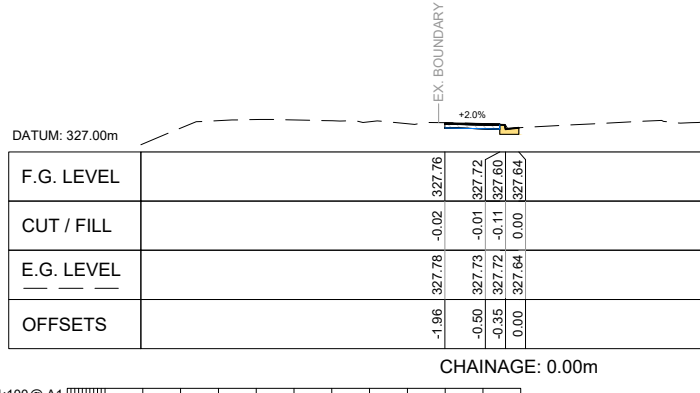
F.G. LEVEL					
CUT / FILL					
E.G. LEVEL					
OFFSETS					

CHAINAGE: 50.00m



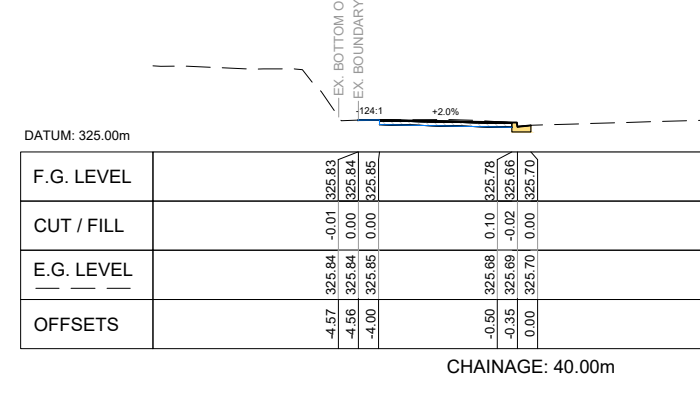
F.G. LEVEL							
CUT / FILL							
E.G. LEVEL							
OFFSETS							

CHAINAGE: 76.00m



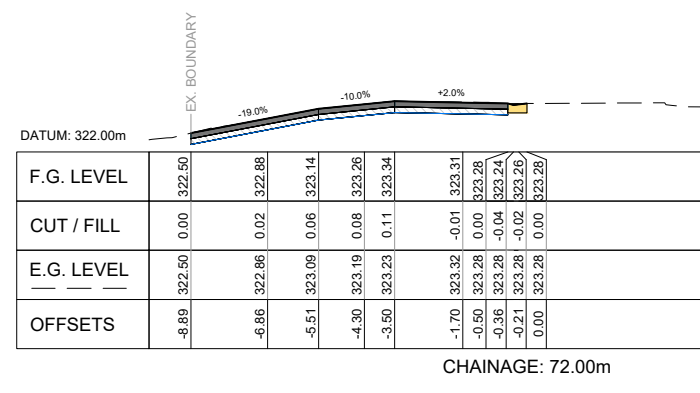
F.G. LEVEL				
CUT / FILL				
E.G. LEVEL				
OFFSETS				

CHAINAGE: 0.00m



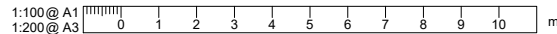
F.G. LEVEL					
CUT / FILL					
E.G. LEVEL					
OFFSETS					

CHAINAGE: 40.00m



F.G. LEVEL							
CUT / FILL							
E.G. LEVEL							
OFFSETS							

CHAINAGE: 72.00m



REVISION	AMENDMENT	APPROVED	DATE
A	DETAILED DESIGN ISSUED FOR CLIENT REVIEW	R. G.	2021-08-02
B	DETAILED DESIGN ISSUED FOR CLIENT APPROVAL	R. G.	2021-08-30
C	DETAILED DESIGN ISSUED FOR TENDER	R. G.	2021-10-22



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CIVIL

SCALES		ORIGINAL SIZE
1:100 @ A1		A1
1:200 @ A3		

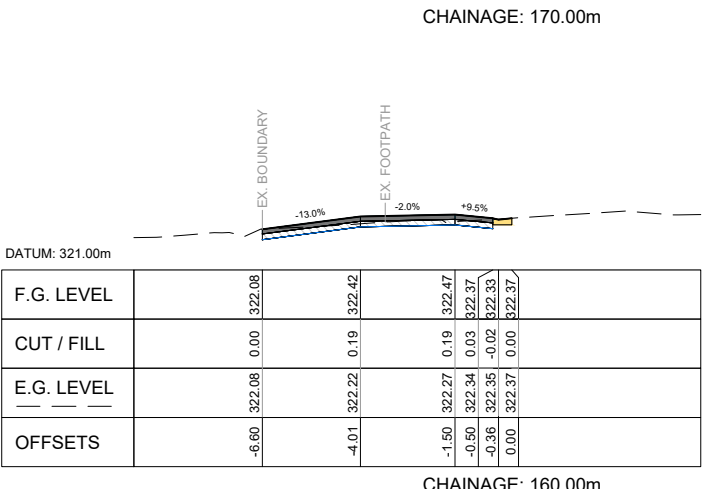
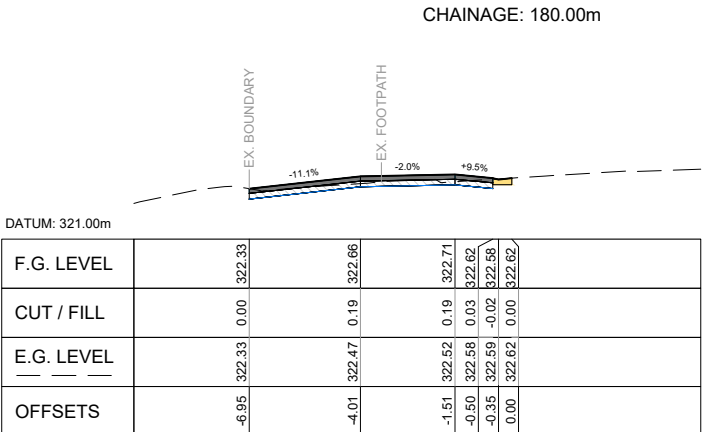
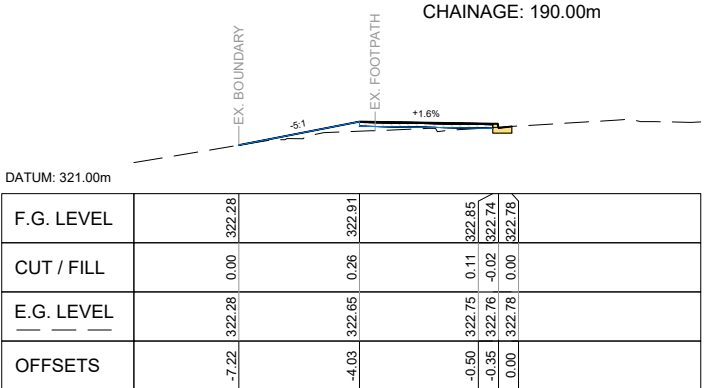
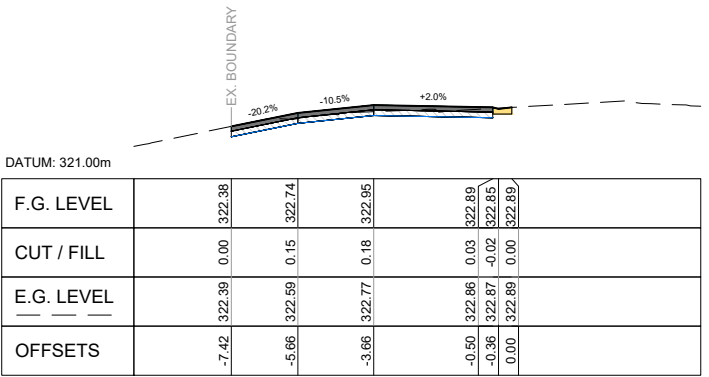
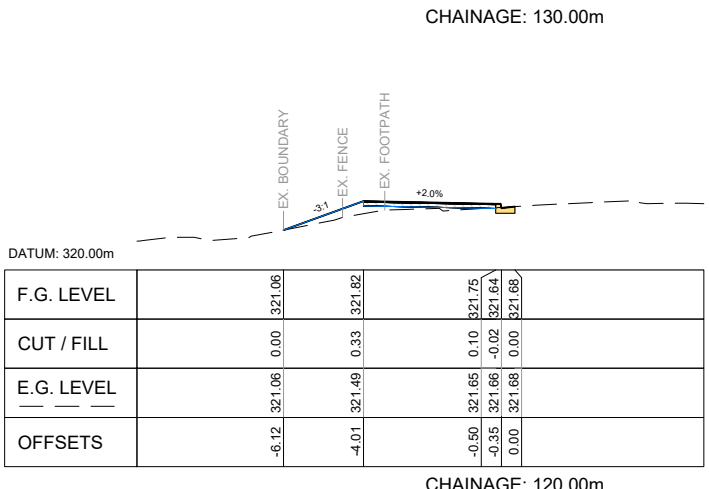
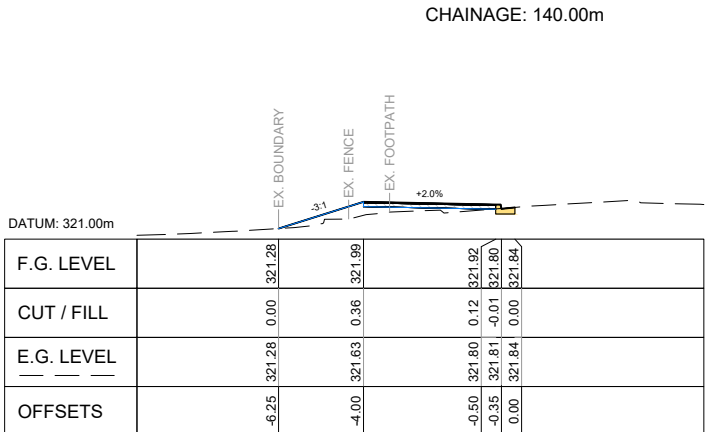
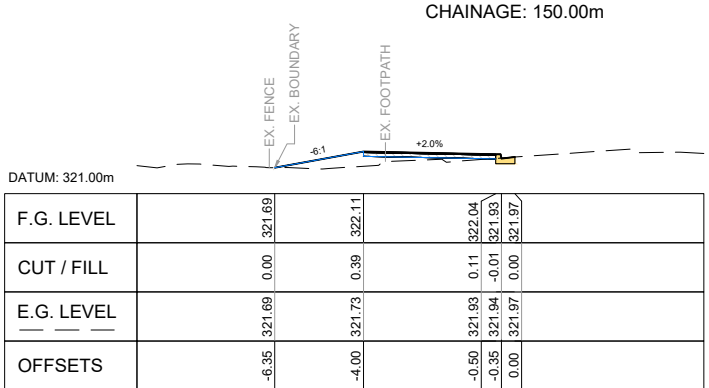
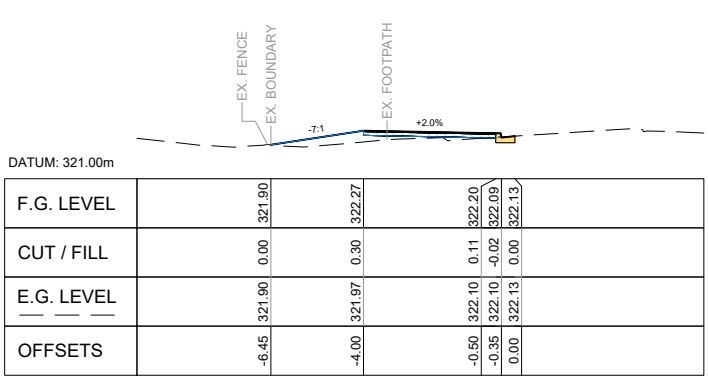
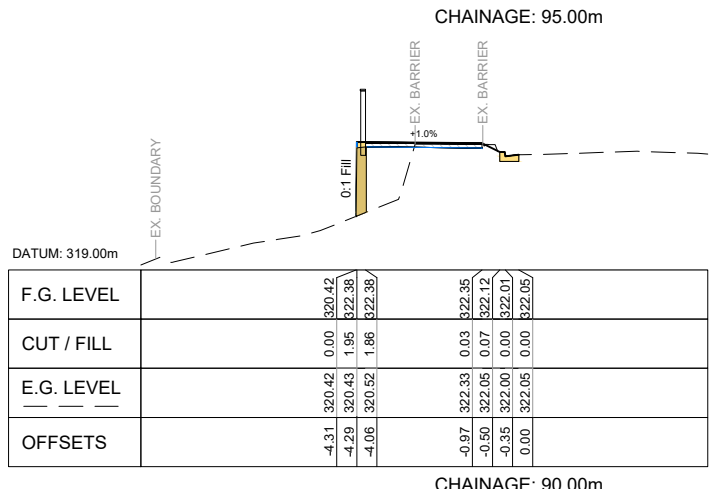
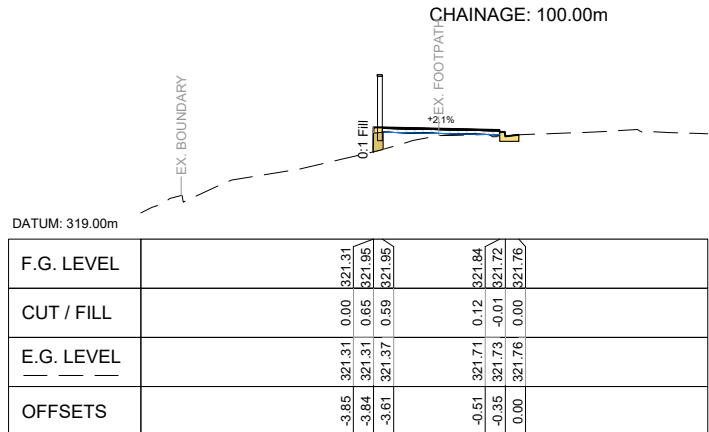
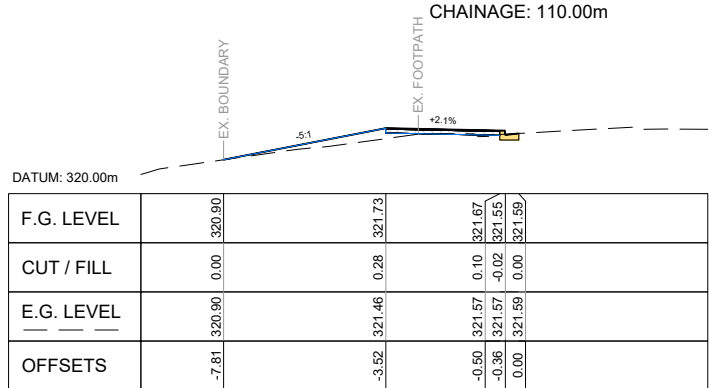
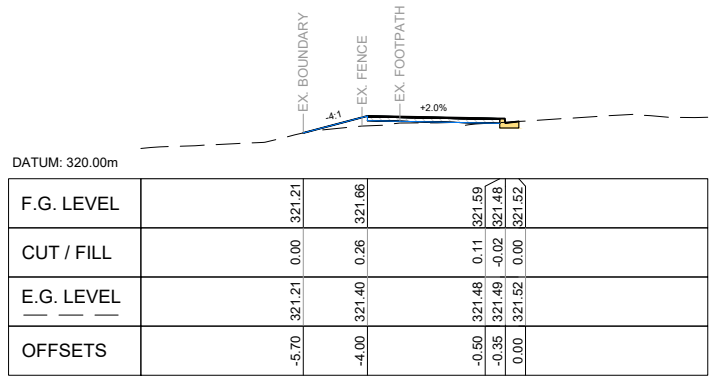
DRAWN	DESIGNED	APPROVED
P. FIEREK	P. FIEREK	R. GILL

DRAWING VERIFIED	DESIGN VERIFIED	APPROVED DATE
S. FORBES	S. SHERLAW	2021-08-02

FOR TENDER

PROJECT		
QUEENSTOWN LAKES DISTRICT COUNCIL		
WAKATIPU ACTIVE TRAVEL		
WATN STAGE 2 ROUTES - ROUTE C5		
TITLE		
ROBINS ROAD		
SECTION VIEWS - SHEET 1 OF 4		
WSP PROJECT NO.	PROJ-ORIG-VOL-LOC-TYPE	SHEET NO.
6-XQ141.00	6-XQ141-WSP-01-C5-DR	C281
		REVISION
		C

300 mm
200
100
50
0 10 mm



1:100 @ A1
1:200 @ A3

REVISION	AMENDMENT	APPROVED	DATE
A	DETAILED DESIGN ISSUED FOR CLIENT REVIEW	R. G.	2021-08-02
B	DETAILED DESIGN ISSUED FOR CLIENT APPROVAL	R. G.	2021-08-30
C	DETAILED DESIGN ISSUED FOR TENDER	R. G.	2021-10-22



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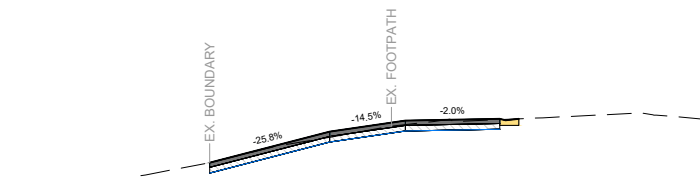
CIVIL

SCALES		ORIGINAL SIZE
1:100 @ A1		A1
DRAWN	DESIGNED	APPROVED
P. FIEREK	P. FIEREK	R. GILL
DRAWING VERIFIED	DESIGN VERIFIED	APPROVED DATE
S. FORBES	S. SHERLAW	2021-08-02

FOR TENDER

PROJECT		
QUEENSTOWN LAKES DISTRICT COUNCIL WAKATIPU ACTIVE TRAVEL WATN STAGE 2 ROUTES - ROUTE C5		
TITLE		
ROBINS ROAD SECTION VIEWS - SHEET 2 OF 4		
WSP PROJECT NO.	PROJ-ORIG-VOL-LOC-TYPE	SHEET NO.
6-XQ141.00	6-XQ141-WSP-01-C5-DR	C282
		REVISION
		C

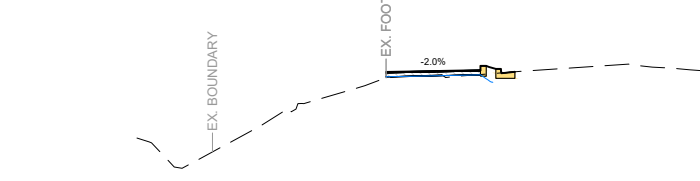
300 mm
200
100
50
0 10 mm



DATUM: 321.00m

F.G. LEVEL	322.09	322.91	323.20	323.25	323.21	323.25
CUT / FILL	0.00	0.15	0.10	0.02	-0.02	0.00
E.G. LEVEL	322.09	322.76	323.09	323.23	323.23	323.25
OFFSETS	-8.18	-5.00	-3.00	-0.50	-0.36	0.00

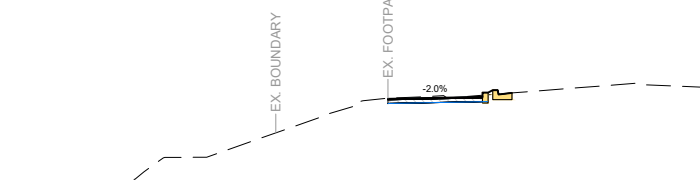
CHAINAGE: 230.00m



DATUM: 320.00m

F.G. LEVEL	323.49	323.50	323.65	323.62	323.57	323.45	323.48	323.49
CUT / FILL	0.15	0.13	0.23	0.18	0.11	-0.01	0.00	0.00
E.G. LEVEL	323.33	323.37	323.42	323.44	323.45	323.47	323.49	323.49
OFFSETS	-3.41	-2.70	-0.87	-0.68	-0.50	-0.35	-0.10	0.00

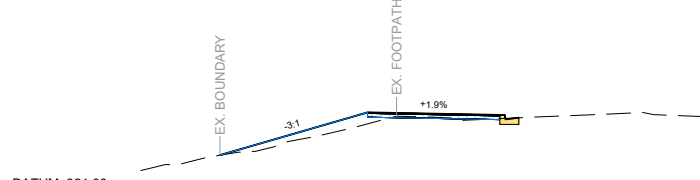
CHAINAGE: 258.07m



DATUM: 321.00m

F.G. LEVEL	323.78	323.84	323.84	323.89	323.93
CUT / FILL	-0.02	0.07	0.06	0.11	0.00
E.G. LEVEL	323.79	323.87	323.88	323.91	323.93
OFFSETS	-3.28	-0.78	-0.63	-0.50	0.00

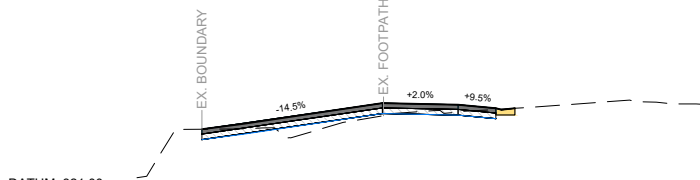
CHAINAGE: 300.00m



DATUM: 321.00m

F.G. LEVEL	322.18	323.31	323.24	323.13	323.17
CUT / FILL	0.00	0.30	0.10	-0.02	0.00
E.G. LEVEL	322.18	323.00	323.14	323.15	323.17
OFFSETS	-7.91	-4.00	-0.50	-0.36	0.00

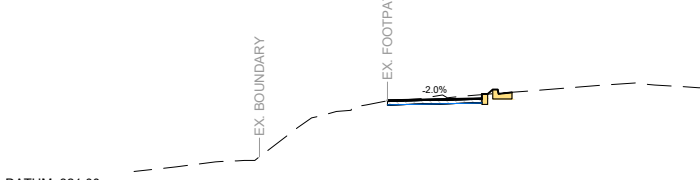
CHAINAGE: 220.00m



DATUM: 321.00m

F.G. LEVEL	322.86	323.00	323.55	323.52	323.51	323.49	323.41	323.38	323.42	323.42
CUT / FILL	0.00	0.13	0.34	0.19	0.19	0.15	0.02	-0.02	0.00	0.00
E.G. LEVEL	322.86	322.88	323.21	323.33	323.32	323.34	323.39	323.40	323.42	323.42
OFFSETS	-8.28	-7.21	-3.50	-1.94	-1.50	-1.28	-0.47	-0.35	0.00	0.00

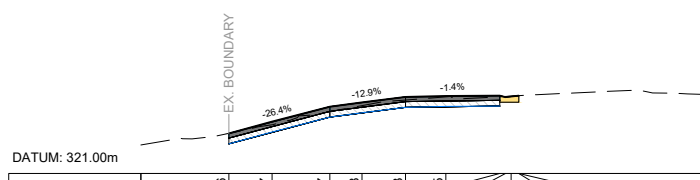
CHAINAGE: 252.42m



DATUM: 321.00m

F.G. LEVEL	323.63	323.80	323.80	323.80	323.91	323.80	323.84
CUT / FILL	0.02	0.02	0.01	0.11	-0.01	0.00	0.00
E.G. LEVEL	323.61	323.78	323.79	323.80	323.81	323.84	323.84
OFFSETS	-3.29	-0.79	-0.64	-0.50	-0.35	0.00	0.00

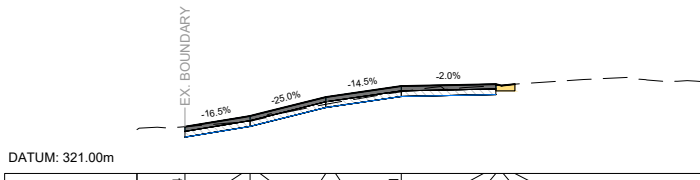
CHAINAGE: 290.00m



DATUM: 321.00m

F.G. LEVEL	322.06	322.37	322.77	322.88	323.03	323.05	323.06	323.06	323.04	323.05	323.06
CUT / FILL	0.00	0.08	0.13	0.09	0.08	0.02	0.03	-0.02	-0.01	0.00	0.00
E.G. LEVEL	322.06	322.29	322.64	322.80	322.94	323.03	323.03	323.04	323.05	323.06	323.06
OFFSETS	-7.67	-6.53	-5.00	-4.15	-3.00	-1.83	-0.50	-0.35	-0.20	0.00	0.00

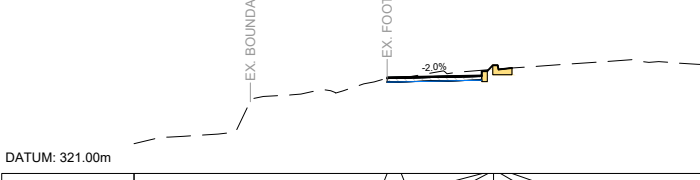
CHAINAGE: 208.50m



DATUM: 321.00m

F.G. LEVEL	322.24	322.49	322.52	322.59	323.02	323.06	323.31	323.36	323.36	323.36	323.36
CUT / FILL	0.00	0.12	0.14	0.14	0.19	0.18	0.15	0.05	0.03	-0.01	0.00
E.G. LEVEL	322.24	322.36	322.38	322.44	322.83	322.88	323.16	323.31	323.33	323.34	323.36
OFFSETS	-8.73	-7.23	-7.00	-6.75	-5.00	-4.75	-3.00	-0.83	-0.50	-0.31	0.00

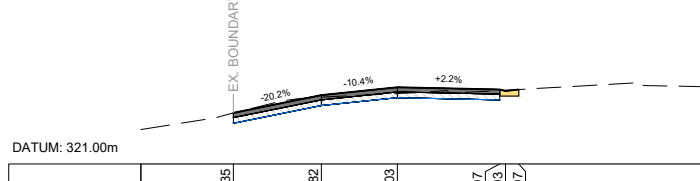
CHAINAGE: 244.00m



DATUM: 321.00m

F.G. LEVEL	323.54	323.55	323.71	323.73	323.86	323.79	323.79
CUT / FILL	0.02	0.01	-0.02	-0.01	0.11	-0.01	0.00
E.G. LEVEL	323.52	323.54	323.73	323.74	323.75	323.77	323.79
OFFSETS	-3.30	-2.93	-0.78	-0.63	-0.49	-0.30	0.00

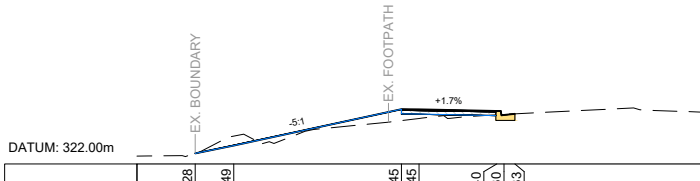
CHAINAGE: 284.00m



DATUM: 321.00m

F.G. LEVEL	322.35	322.82	323.03	322.97	322.93	322.97
CUT / FILL	0.00	0.05	0.17	0.03	-0.02	0.00
E.G. LEVEL	322.35	322.77	322.86	322.94	322.95	322.97
OFFSETS	-7.56	-5.23	-3.21	-0.50	-0.36	0.00

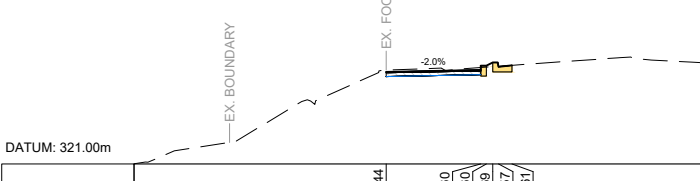
CHAINAGE: 200.00m



DATUM: 322.00m

F.G. LEVEL	322.28	322.49	323.45	323.45	323.40	323.30	323.33
CUT / FILL	0.00	-0.25	0.30	0.24	0.10	-0.02	0.00
E.G. LEVEL	322.28	322.74	323.15	323.20	323.30	323.31	323.33
OFFSETS	-8.46	-7.44	-3.00	-2.54	-0.48	-0.29	0.00

CHAINAGE: 237.50m



DATUM: 321.00m

F.G. LEVEL	323.44	323.60	323.60	323.69	323.57	323.61
CUT / FILL	-0.05	0.05	0.04	0.11	-0.01	0.00
E.G. LEVEL	323.49	323.55	323.56	323.57	323.59	323.61
OFFSETS	-3.33	-0.83	-0.68	-0.50	-0.35	0.00

CHAINAGE: 270.00m

1:100 @ A1
1:200 @ A3



REVISION	AMENDMENT	APPROVED	DATE
A	DETAILED DESIGN ISSUED FOR CLIENT REVIEW	R. GILL	2021-08-02
B	DETAILED DESIGN ISSUED FOR CLIENT APPROVAL	R. GILL	2021-08-30
C	DETAILED DESIGN ISSUED FOR TENDER	R. GILL	2021-10-22



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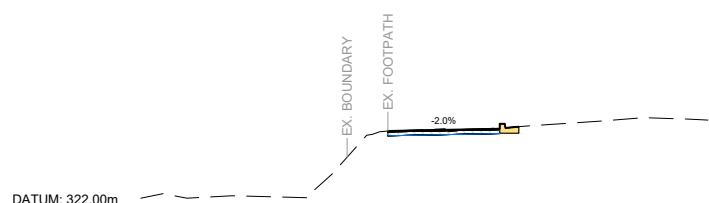
CIVIL

SCALES			ORIGINAL SIZE
1:100 @ A1			A1
DRAWN	DESIGNED	APPROVED	
P. FIEREK	P. FIEREK	R. GILL	
DRAWING VERIFIED	DESIGN VERIFIED	APPROVED DATE	
S. FORBES	S. SHERLAW	2021-08-02	

FOR TENDER

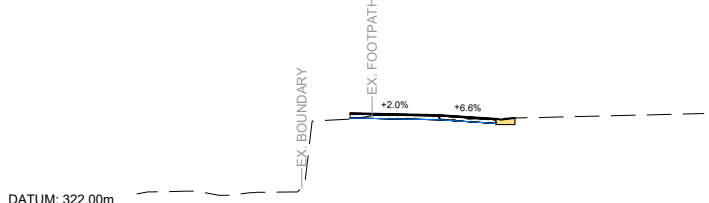
PROJECT			
QUEENSTOWN LAKES DISTRICT COUNCIL WAKATIPU ACTIVE TRAVEL WATN STAGE 2 ROUTES - ROUTE C5			
TITLE ROBINS ROAD SECTION VIEWS - SHEET 3 OF 4			
WSP PROJECT NO.	PROJ-ORIG-VOL-LOC-TYPE	SHEET NO.	REVISION
6-XQ141.00	6-XQ141-WSP-01-C5-DR	C283	C

300 mm
200
100
50
0 10 mm



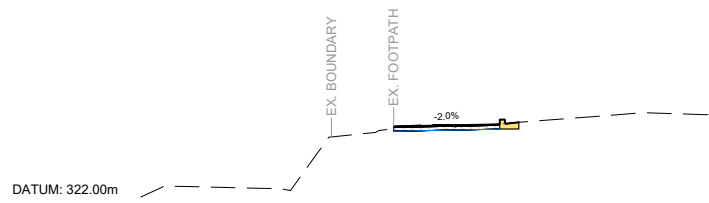
F.G. LEVEL			324.24		
CUT / FILL		0.00		0.11	324.43
E.G. LEVEL		324.24		324.33	324.31
OFFSETS		-3.46		0.00	324.35

CHAINAGE: 340.00m



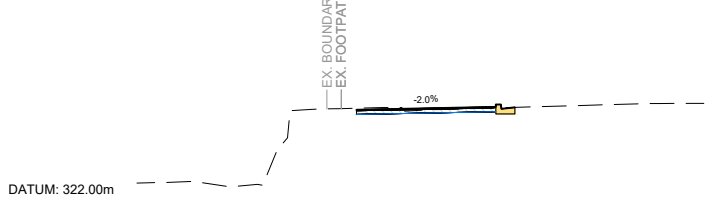
F.G. LEVEL			324.71		
CUT / FILL		0.15		0.05	324.66
E.G. LEVEL		324.55		324.61	324.56
OFFSETS		-4.36		-2.00	324.57

CHAINAGE: 375.00m



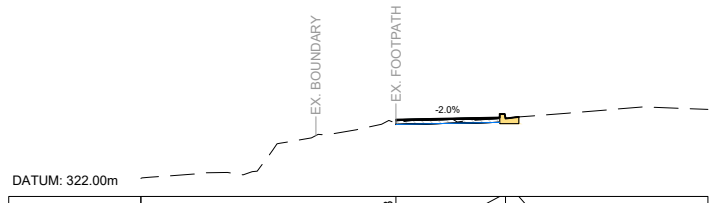
F.G. LEVEL			324.10		
CUT / FILL		0.00		0.11	324.29
E.G. LEVEL		324.10		324.19	324.17
OFFSETS		-3.31		0.00	324.21

CHAINAGE: 330.00m



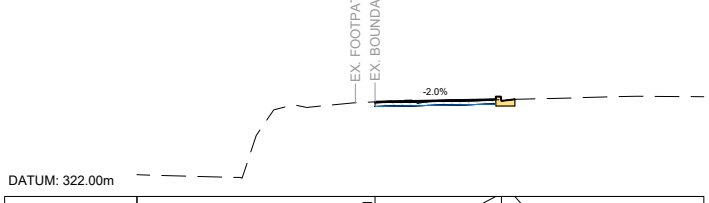
F.G. LEVEL			324.55		
CUT / FILL		-0.04		0.09	324.68
E.G. LEVEL		324.59		324.60	324.57
OFFSETS		-4.19		-0.51	324.57

CHAINAGE: 370.00m



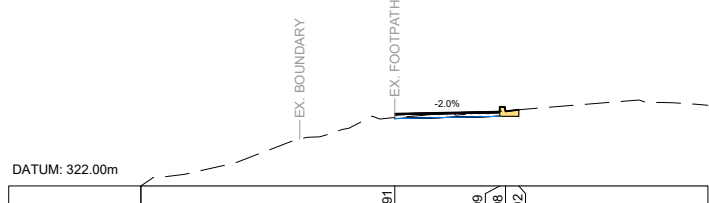
F.G. LEVEL			324.03		
CUT / FILL		0.08		0.11	324.18
E.G. LEVEL		323.95		324.07	324.06
OFFSETS		-3.25		0.00	324.10

CHAINAGE: 320.00m



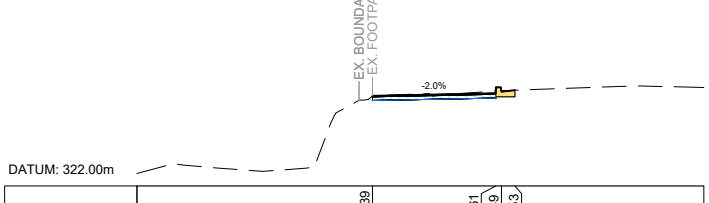
F.G. LEVEL			324.51		
CUT / FILL		0.00		0.09	324.64
E.G. LEVEL		324.51		324.56	324.53
OFFSETS		-3.70		-0.51	324.57

CHAINAGE: 360.00m



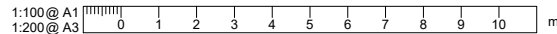
F.G. LEVEL			323.91		
CUT / FILL		0.10		0.12	324.09
E.G. LEVEL		323.81		323.97	323.98
OFFSETS		-3.28		-0.36	324.02

CHAINAGE: 310.00m



F.G. LEVEL			324.39		
CUT / FILL		0.00		0.10	324.61
E.G. LEVEL		324.39		324.51	324.49
OFFSETS		-3.77		-0.36	324.53

CHAINAGE: 350.00m



REVISION	AMENDMENT	APPROVED	DATE
A	DETAILED DESIGN ISSUED FOR CLIENT REVIEW	R. G.	2021-08-02
B	DETAILED DESIGN ISSUED FOR CLIENT APPROVAL	R. G.	2021-08-30
C	DETAILED DESIGN ISSUED FOR TENDER	R. G.	2021-10-22



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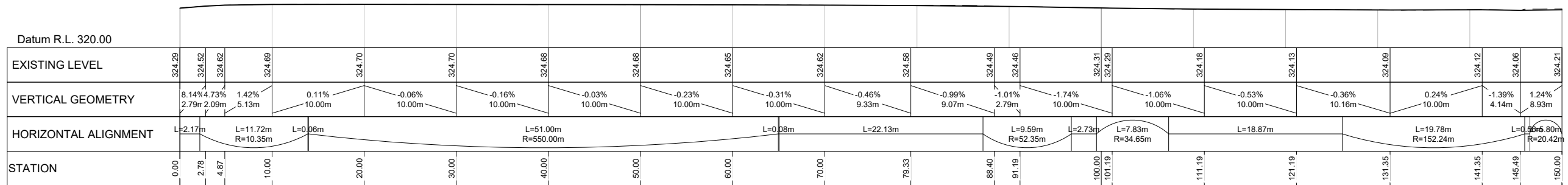
CIVIL

SCALES		ORIGINAL SIZE	
1:100 @ A1		A1	
1:200 @ A3			
DRAWN		DESIGNED	APPROVED
P. FIEREK	P. FIEREK	R. GILL	
DRAWING VERIFIED		DESIGN VERIFIED	APPROVED DATE
S. FORBES	S. SHERLAW		2021-08-02

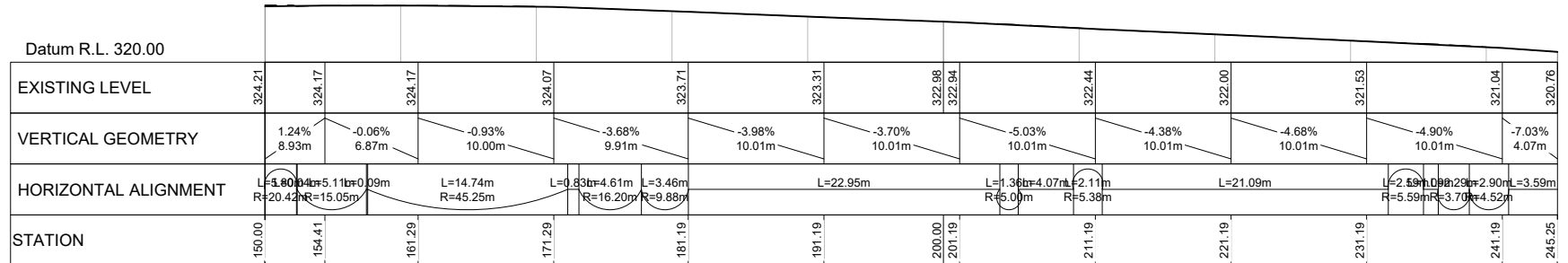
FOR TENDER

PROJECT			
QUEENSTOWN LAKES DISTRICT COUNCIL			
WAKATIPU ACTIVE TRAVEL			
WATN STAGE 2 ROUTES - ROUTE C5			
TITLE			
ROBINS ROAD			
SECTION VIEWS - SHEET 4 OF 4			
WSP PROJECT NO.	PROJ-ORIG-VOL-LOC-TYPE	SHEET NO.	REVISION
6-XQ141.00	6-XQ141-WSP-01-C5-DR	C284	C

300 mm
200
100
50
0 10 mm

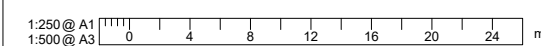


EDGE OF SEAL - ROBINS ROAD AND CAMP STREET
LONGSECTION BETWEEN CH: 0.00 AND 150.00



EDGE OF SEAL - ROBINS ROAD AND CAMP STREET
LONGSECTION BETWEEN CH: 150.00 AND 245.25

EDGE OF SEAL PROFILE
(REFER TO SHEETS C-219 & C-220 FOR LOCATION)
SCALE 1:250(A1), 1:500(A3)



REVISION	AMENDMENT	APPROVED	DATE
A	DETAILED DESIGN ISSUED FOR CLIENT REVIEW	R. G.	2021-08-02
B	DETAILED DESIGN ISSUED FOR CLIENT APPROVAL	R. G.	2021-08-30
C	DETAILED DESIGN ISSUED FOR TENDER	R. G.	2021-10-22



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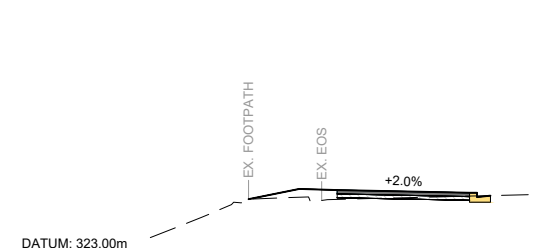
CIVIL

SCALES		ORIGINAL SIZE
1:250 @ A1		A1
DRAWN	DESIGNED	APPROVED
P. FIEREK	P. FIEREK	R. GILL
DRAWING VERIFIED	DESIGN VERIFIED	APPROVED DATE
S. FORBES	S. SHERLAW	2021-08-02

FOR TENDER

PROJECT			
QUEENSTOWN LAKES DISTRICT COUNCIL WAKATIPU ACTIVE TRAVEL WATN STAGE 2 ROUTES - ROUTE C5			
TITLE			
ROBINS ROAD AND CAMP STREET EDGE OF SEAL PROFILE - SHEET 1 OF 1			
WSP PROJECT NO.	PROJ-ORIG-VOL-LOC-TYPE	SHEET NO.	REVISION
6-XQ141.00	6-XQ141-WSP-01-C5-DR	C290	C

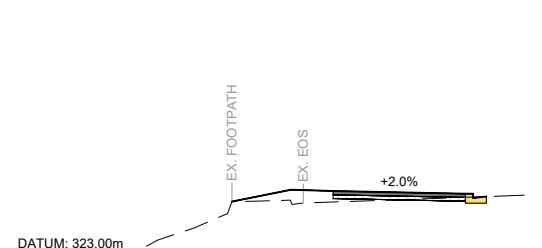
300 mm
200
100
50
0 10 mm



DATUM: 323.00m

F.G. LEVEL									
CUT / FILL		0.00	324.61						
E.G. LEVEL			324.61						
OFFSETS		-6.40	324.61						

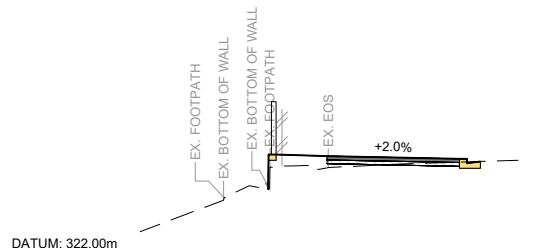
CHAINAGE: 20.00m



DATUM: 323.00m

F.G. LEVEL									
CUT / FILL		0.00	324.54						
E.G. LEVEL			324.54						
OFFSETS		-6.73	324.54						

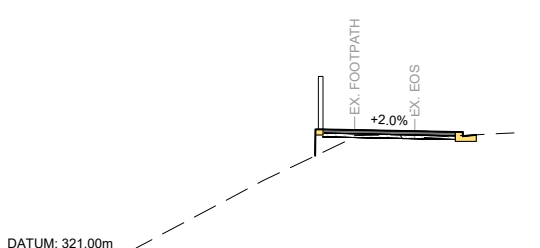
CHAINAGE: 50.00m



DATUM: 322.00m

F.G. LEVEL									
CUT / FILL		0.00	323.87						
E.G. LEVEL			323.87						
OFFSETS		-5.61	323.87						

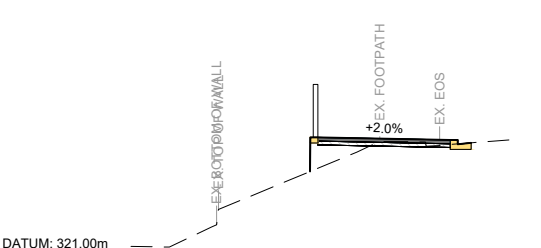
CHAINAGE: 75.00m



DATUM: 321.00m

F.G. LEVEL									
CUT / FILL									
E.G. LEVEL									
OFFSETS									

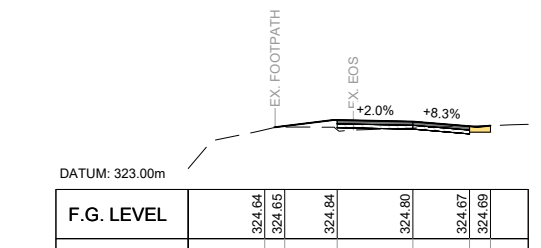
CHAINAGE: 100.00m



DATUM: 321.00m

F.G. LEVEL									
CUT / FILL									
E.G. LEVEL									
OFFSETS									

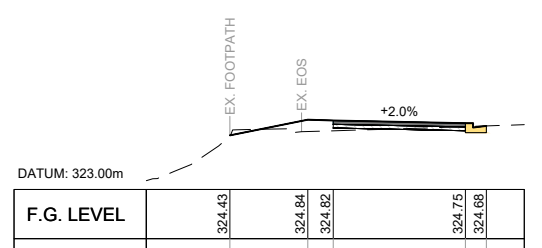
CHAINAGE: 130.00m



DATUM: 323.00m

F.G. LEVEL									
CUT / FILL		0.01	324.64						
E.G. LEVEL			324.64						
OFFSETS		-5.72	324.64						

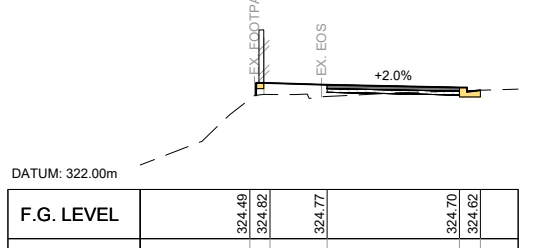
CHAINAGE: 10.00m



DATUM: 323.00m

F.G. LEVEL									
CUT / FILL		0.00	324.43						
E.G. LEVEL			324.43						
OFFSETS		-6.79	324.43						

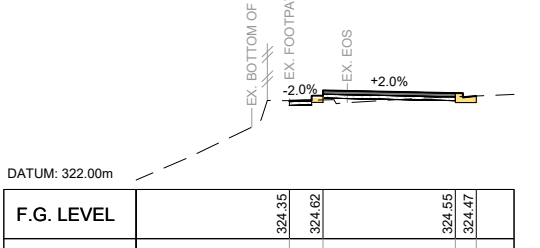
CHAINAGE: 40.00m



DATUM: 322.00m

F.G. LEVEL									
CUT / FILL		0.00	324.49						
E.G. LEVEL			324.49						
OFFSETS		-5.93	324.49						

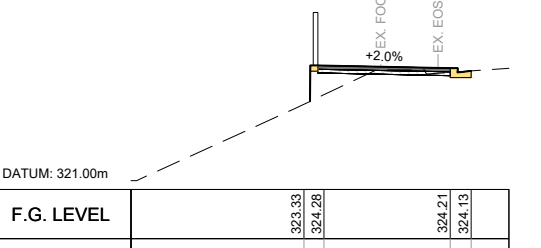
CHAINAGE: 70.00m



DATUM: 322.00m

F.G. LEVEL									
CUT / FILL									
E.G. LEVEL									
OFFSETS									

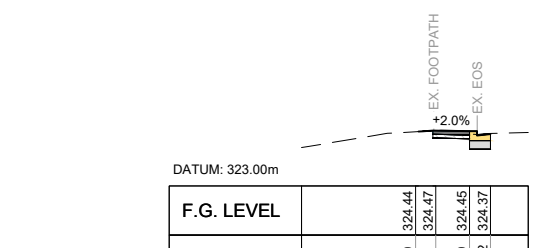
CHAINAGE: 90.00m



DATUM: 321.00m

F.G. LEVEL									
CUT / FILL									
E.G. LEVEL									
OFFSETS									

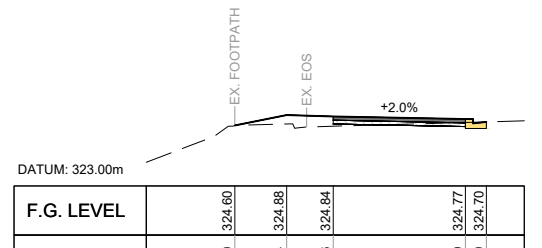
CHAINAGE: 120.00m



DATUM: 323.00m

F.G. LEVEL									
CUT / FILL		0.00	324.44						
E.G. LEVEL			324.44						
OFFSETS		-1.91	324.44						

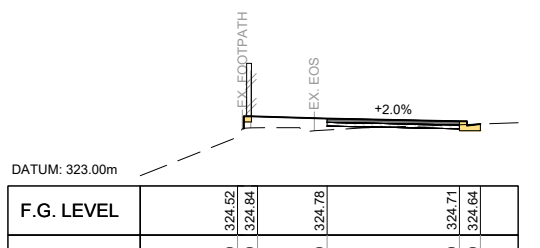
CHAINAGE: 1.00m



DATUM: 323.00m

F.G. LEVEL									
CUT / FILL		0.00	324.60						
E.G. LEVEL			324.60						
OFFSETS		-6.66	324.60						

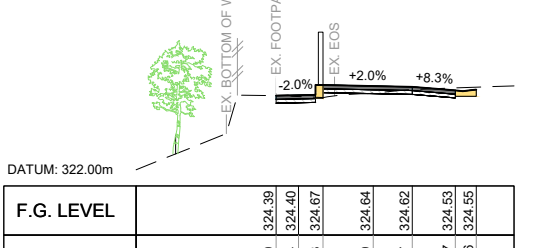
CHAINAGE: 30.00m



DATUM: 323.00m

F.G. LEVEL									
CUT / FILL		0.00	324.52						
E.G. LEVEL			324.52						
OFFSETS		-6.26	324.52						

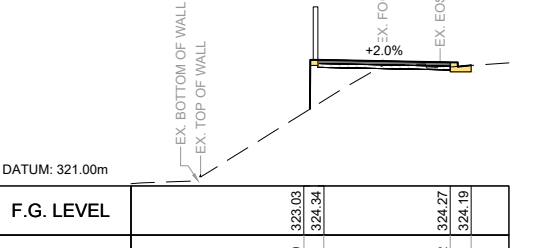
CHAINAGE: 65.00m



DATUM: 322.00m

F.G. LEVEL									
CUT / FILL									
E.G. LEVEL									
OFFSETS									

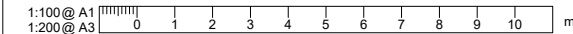
CHAINAGE: 82.44m



DATUM: 321.00m

F.G. LEVEL									
CUT / FILL									
E.G. LEVEL									
OFFSETS									

CHAINAGE: 110.00m



REVISION	AMENDMENT	APPROVED	DATE
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C	DETAILED DESIGN ISSUED FOR TENDER	R. GILL	2021-10-22



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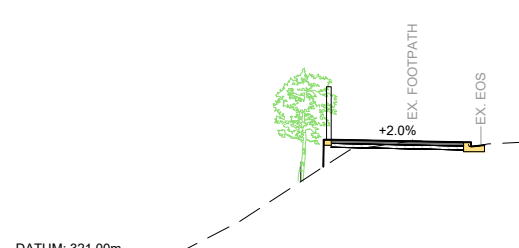
CIVIL

SCALES		ORIGINAL SIZE
1:100 @ A1		A1
DRAWN	DESIGNED	APPROVED
P. FIEREK	P. FIEREK	R. GILL
DRAWING VERIFIED	DESIGN VERIFIED	APPROVED DATE
S. FORBES	S. SHERLAW	2021-08-02

FOR TENDER

PROJECT			
QUEENSTOWN LAKES DISTRICT COUNCIL			
WAKATIPU ACTIVE TRAVEL			
WATN STAGE 2 ROUTES - ROUTE C5			
TITLE			
ROBINS ROAD AND CAMP STREET			
SECTION VIEWS - SHEET 1 OF 2			
WSP PROJECT NO.	PROJ-ORIG-VOL-LOC-TYPE	SHEET NO.	REVISION
6-XQ141.00	6-XQ141-WSP-01-C5-DR	C291	C

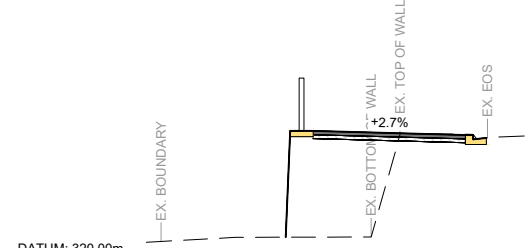
300 mm
200
100
50
0 10 mm



DATUM: 321.00m

F.G. LEVEL		323.59	324.31
CUT / FILL	0.00	0.59	0.00
E.G. LEVEL	323.59	324.24	324.17
OFFSETS	-4.26	-4.05	-0.55

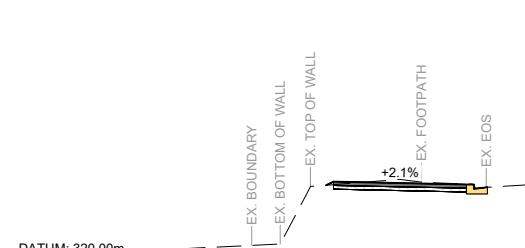
CHAINAGE: 160.00m



DATUM: 320.00m

F.G. LEVEL		320.73	323.54
CUT / FILL	0.00	2.81	0.00
E.G. LEVEL	320.73	323.54	323.43
OFFSETS	-5.31	-4.68	-0.55

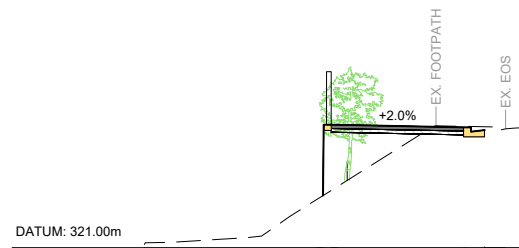
CHAINAGE: 190.00m



DATUM: 320.00m

F.G. LEVEL		322.10	322.20
CUT / FILL	0.00	0.08	0.00
E.G. LEVEL	322.10	322.12	322.13
OFFSETS	-4.26	-4.07	-0.55

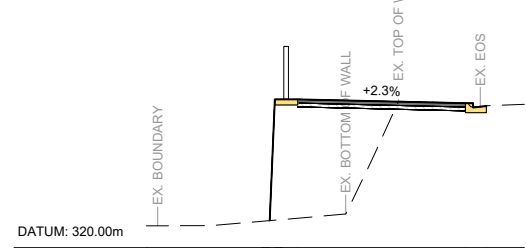
CHAINAGE: 220.00m



DATUM: 321.00m

F.G. LEVEL		322.38	324.26
CUT / FILL	0.00	1.74	0.00
E.G. LEVEL	322.38	324.22	324.19
OFFSETS	-4.27	-4.05	-0.55

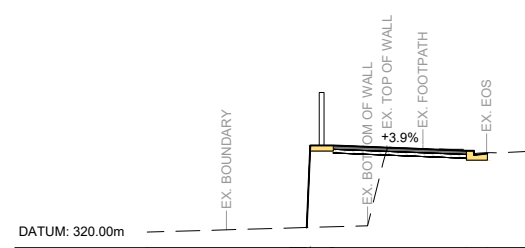
CHAINAGE: 150.00m



DATUM: 320.00m

F.G. LEVEL		320.72	323.93
CUT / FILL	0.00	3.20	0.00
E.G. LEVEL	320.72	323.93	323.83
OFFSETS	-5.73	-4.99	-0.55

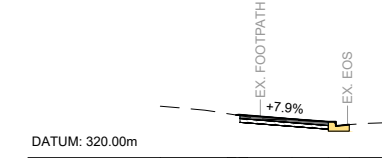
CHAINAGE: 180.00m



DATUM: 320.00m

F.G. LEVEL		320.54	322.71
CUT / FILL	0.00	2.17	0.00
E.G. LEVEL	320.54	322.71	322.57
OFFSETS	-4.78	-4.08	-0.55

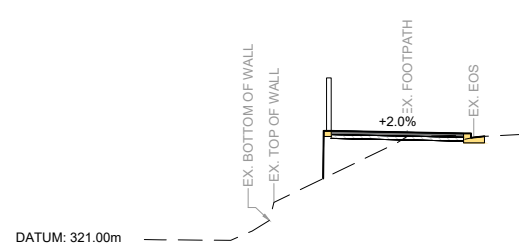
CHAINAGE: 210.00m



DATUM: 320.00m

F.G. LEVEL		321.13	321.14
CUT / FILL	0.00	0.02	0.00
E.G. LEVEL	321.13	321.12	321.03
OFFSETS	-3.00	-2.92	-0.55

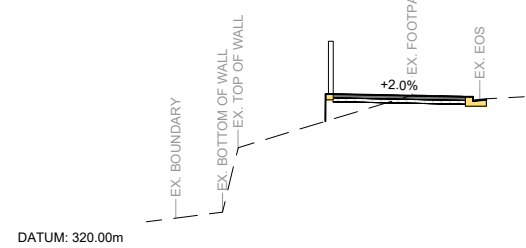
CHAINAGE: 243.46m



DATUM: 321.00m

F.G. LEVEL		323.00	324.26
CUT / FILL	0.00	1.16	0.00
E.G. LEVEL	323.00	324.03	324.19
OFFSETS	-4.27	-4.06	-0.55

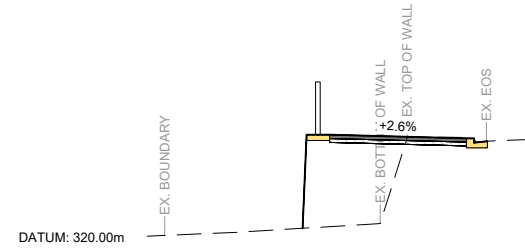
CHAINAGE: 140.00m



DATUM: 320.00m

F.G. LEVEL		323.51	324.23
CUT / FILL	0.00	0.66	0.00
E.G. LEVEL	323.51	324.17	324.16
OFFSETS	-4.26	-4.05	-0.55

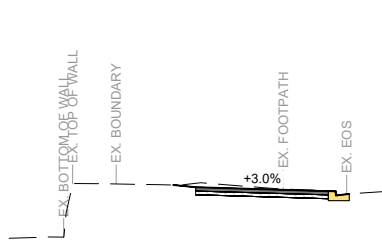
CHAINAGE: 170.00m



DATUM: 320.00m

F.G. LEVEL		320.68	323.15
CUT / FILL	0.00	2.47	0.00
E.G. LEVEL	320.68	323.15	323.06
OFFSETS	-4.89	-4.17	-0.55

CHAINAGE: 200.00m



DATUM: 320.00m

F.G. LEVEL		321.83	321.77
CUT / FILL	0.00	-0.10	0.00
E.G. LEVEL	321.83	321.87	321.68
OFFSETS	-4.66	-4.06	-0.55

CHAINAGE: 230.00m

1:100 @ A1
1:200 @ A3

REVISION	AMENDMENT	APPROVED	DATE
A	DETAILED DESIGN ISSUED FOR CLIENT REVIEW	R. GILL	2021-08-02
B	DETAILED DESIGN ISSUED FOR CLIENT APPROVAL	R. GILL	2021-08-30
C	DETAILED DESIGN ISSUED FOR TENDER	R. GILL	2021-10-22



WSP
Queenstown Office
+64 3 451 0360
PO Box 2323
Queenstown 9300
New Zealand

CIVIL

SCALES		ORIGINAL SIZE
1:100 @ A1		A1
DRAWN	DESIGNED	APPROVED
P. FIEREK	P. FIEREK	R. GILL
DRAWING VERIFIED	DESIGN VERIFIED	APPROVED DATE
S. FORBES	S. SHERLAW	2021-08-02

FOR TENDER

PROJECT			
QUEENSTOWN LAKES DISTRICT COUNCIL			
WAKATIPU ACTIVE TRAVEL			
WATN STAGE 2 ROUTES - ROUTE C5			
TITLE			
ROBINS ROAD AND CAMP STREET			
SECTION VIEWS - SHEET 2 OF 2			
WSP PROJECT NO.	PROJ-ORIG-VOL-LOC-TYPE	SHEET NO.	REVISION
6-QX141.00	6-QX141-WSP-01-C5-DR	C292	C



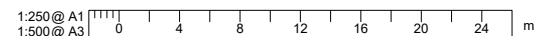
PLAN
SCALE 1:250(A1), 1:500(A3)

MARKINGS LEGEND

- A. 100 mm WIDE REFLECTORISED WHITE SOLID LINE
- B. 100 mm WIDE REFLECTORISED WHITE CENTRELINE, 3m STRIPE, 7 m GAP
- C. 100 mm WIDE REFLECTORISED WHITE CONTINUITY LINE 1 m STRIPE, 3 m GAP
- D. 100 mm WIDE REFLECTORISED YELLOW NO STOPPING LINE 1 m STRIPE, 2m GAP
- E. 100 mm WIDE REFLECTORISED YELLOW NO STOPPING LINE 1 m STRIPE, 1m GAP
- F. 1.68 m LONG REFLECTORISED WHITE CYCLE SYMBOL
- G. 600 mm WIDE REFLECTORISED WHITE BARS AT MAX 6 m SPACING, SLOPED 2:1 TO BORDER
- H. 6.8 m LONG REFLECTORISED WHITE, COMBINED RIGHT OR LEFT ARROW MARKING
- I. 4.0 m LONG REFLECTORISED WHITE, GIVEWAY TRIANGLE SYMBOL
- J. 300 mm WIDE REFLECTORISED SOLID WHITE LIMIT / HOLDING LINE
- K. HUMPS RAMP MARKING SYMBOL AS PER TCD MANUAL
- L. 600 X 600 PEDESTRIAN CROSSING AS PER TCD MANUAL
- M. PEDESTRIAN OR CYCLE SYMBOL AS PER TCD MANUAL
- N. ADVANCED WARNING DIAMOND, 100mm REFLECTORISED WHITE
- O. CYCLE SYMBOL AND ARROWS.
- P. 1.2m HIGH 'BUS STOP' AND 'LOADING ZONE' LETTERING
- Q. 100 mm WIDE REFLECTORISED YELLOW LINE 1 m STRIPE, 1m GAP (LOADING ZONES)
- R. 100 mm WIDE REFLECTORISED YELLOW LINE 1 m STRIPE, 2m GAP (LONG BUS STOPS)
- S. 100 mm WIDE REFLECTORISED YELLOW SOLID LINE
- T. 100 mm WIDE REFLECTORISED YELLOW SOLID NO-OVERTAKING LINE
- U. 100 mm WIDE REFLECTORISED YELLOW SOLID NO-OVERTAKING ADVANCED WARNING LINE
- V. RED COLOURED SHARED PATH SURFACING REFER TO NZTA P33 - COLOURED SURFACING

NOTES:

1. ALL SIGNS AND MARKINGS ARE TO COMPLY WITH WAKA KOTAHI NZ TRANSPORT AGENCY MANUALS
 - a. MANUAL OF TRAFFIC SIGNS AND MARKINGS.
 - PART 1: SIGNS
 - PART 2: MARKINGS
2. ALL REFLECTORISED MARKINGS TO MEET STANDARDS SPECIFIED IN WAKA KOTAHI NZTA P30 DOCUMENT.
3. ALL KERBS ON TRAFFIC ISLANDS TO BE PAINTED WITH WHITE REFLECTORISED MARKINGS TO MEET STANDARD SPECIFIED IN WAKA KOTAHI NZTA P30 DOCUMENT.
4. RAISED PAVEMENT MARKERS NOT SHOWN, REFER TO MOTSAM FOR LOCATIONS AND REQUIREMENTS.



REVISION	AMENDMENT	APPROVED	DATE
A	FOR SAFETY AUDIT	ND	2021-07-09
B	DETAILED DESIGN ISSUED FOR CLIENT APPROVAL	RG	2021-08-30
C	DETAILED DESIGN ISSUED FOR TENDER	R.G.	2021-10-22



PO Box 2323
Queenstown 9300
New Zealand

CIVIL

SCALES		ORIGINAL SIZE
1:250 @ A1		A1
DRAWN	DESIGNED	APPROVED
S.GAUTAM	P.FIEREK	R.GILL
DRAWING VERIFIED	DESIGN VERIFIED	APPROVED DATE
S.FORBES	S.SHERLAW	2021-08-02

FOR TENDER

PROJECT		
QUEENSTOWN LAKES DISTRICT COUNCIL WAKATIPU ACTIVE TRAVEL WATN STAGE 2 ROUTES - ROUTE C5		
TITLE		
ROAD MARKINGS AND SIGNAGES SHEET 1 OF 23		
WSP PROJECT NO.	PROJ-ORIG-VOL-LOC-TYPE	SHEET NO.
6-QX141.00	6-QX141-WSP-01-C5-DR	C300
		REVISION
		C



PLAN
SCALE 1:500(A1), 1:1000(A3)

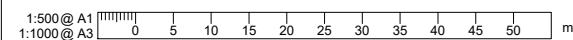
MARKINGS LEGEND

- A. 100 mm WIDE REFLECTORISED WHITE SOLID LINE
- B. 100 mm WIDE REFLECTORISED WHITE CENTRELINE, 3m STRIPE, 7 m GAP
- C. 100 mm WIDE REFLECTORISED WHITE CONTINUITY LINE 1 m STRIPE, 3 m GAP
- D. 100 mm WIDE REFLECTORISED YELLOW NO STOPPING LINE 1 m STRIPE, 2m GAP
- E. 100 mm WIDE REFLECTORISED YELLOW NO STOPPING LINE 1 m STRIPE, 1m GAP
- F. 1.68 m LONG REFLECTORISED WHITE CYCLE SYMBOL
- G. 600 mm WIDE REFLECTORISED WHITE BARS AT MAX 6 m SPACING, SLOPED 2:1 TO BORDER
- H. 6.8 m LONG REFLECTORISED WHITE, COMBINED RIGHT OR LEFT ARROW MARKING
- I. 4.0 m LONG REFLECTORISED WHITE, GIVEWAY TRIANGLE SYMBOL
- J. 300 mm WIDE REFLECTORISED SOLID WHITE LIMIT / HOLDING LINE
- K. HUMPS RAMP MARKING SYMBOL AS PER TCD MANUAL
- L. 600 X 600 PEDESTRIAN CROSSING AS PER TCD MANUAL
- M. PEDESTRIAN OR CYCLE SYMBOL AS PER TCD MANUAL
- N. ADVANCED WARNING DIAMOND, 100mm REFLECTORISED WHITE
- O. CYCLE SYMBOL AND ARROWS.
- P. 1.2m HIGH 'BUS STOP' AND 'LOADING ZONE' LETTERING
- Q. 100 mm WIDE REFLECTORISED YELLOW LINE 1 m STRIPE, 1m GAP (LOADING ZONES)
- R. 100 mm WIDE REFLECTORISED YELLOW LINE 1 m STRIPE, 2m GAP (LONG BUS STOPS)
- S. 100 mm WIDE REFLECTORISED YELLOW SOLID LINE
- T. 100 mm WIDE REFLECTORISED YELLOW SOLID NO-OVERTAKING LINE
- U. 100 mm WIDE REFLECTORISED YELLOW SOLID NO-OVERTAKING ADVANCED WARNING LINE
- V. RED COLOURED SHARED PATH SURFACING REFER TO NZTA P33 - COLOURED SURFACING

NOTES:

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3. ALL KERBS ON TRAFFIC ISLANDS TO BE PAINTED WITH WHITE REFLECTORISED MARKINGS TO MEET STANDARD SPECIFIED IN WAKA KOTAHI NZTA P30 DOCUMENT.
4. RAISED PAVEMENT MARKERS NOT SHOWN, REFER TO MOTSAM FOR LOCATIONS AND REQUIREMENTS.

300 mm
200
100
50
0 10 mm



REVISION	AMENDMENT	APPROVED	DATE
A	FOR SAFETY AUDIT	ND	2021-07-09
B	DETAILED DESIGN ISSUED FOR CLIENT APPROVAL	RG	2021-08-30
C	DETAILED DESIGN ISSUED FOR TENDER	R.G.	2021-10-22



wsp
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PO Box 2323
Queenstown 9300
New Zealand

CIVIL

SCALES	DESIGNED	APPROVED	ORIGINAL SIZE
1:500 @ A1	P.FIEREK	R.GILL	A1
1:1000 @ A3			
DRAWN	DESIGNED	APPROVED	
S.GAUTAM	P.FIEREK	R.GILL	
DRAWING VERIFIED	DESIGN VERIFIED	APPROVED DATE	
S.FORBES	S.SHERLAW	2021-08-02	

FOR TENDER

PROJECT			
QUEENSTOWN LAKES DISTRICT COUNCIL WAKATIPU ACTIVE TRAVEL WATN STAGE 2 ROUTES - ROUTE C5			
TITLE			
ROAD MARKINGS AND SIGNAGES SHEET 2 OF 23			
WSP PROJECT NO.	PROJ-ORIG-VOL-LOC-TYPE	SHEET NO.	REVISION
6-XQ141.00	6-XQ141-WSP-01-C5-DR	C301	C



PLAN
SCALE 1:500(A1), 1:1000(A3)

MARKINGS LEGEND

- A. 100 mm WIDE REFLECTORISED WHITE SOLID LINE
- B. 100 mm WIDE REFLECTORISED WHITE CENTRELINE, 3m STRIPE, 7 m GAP
- C. 100 mm WIDE REFLECTORISED WHITE CONTINUITY LINE 1 m STRIPE, 3 m GAP
- D. 100 mm WIDE REFLECTORISED YELLOW NO STOPPING LINE 1 m STRIPE, 2m GAP
- E. 100 mm WIDE REFLECTORISED YELLOW NO STOPPING LINE 1 m STRIPE, 1m GAP
- F. 1.68 m LONG REFLECTORISED WHITE CYCLE SYMBOL
- G. 600 mm WIDE REFLECTORISED WHITE BARS AT MAX 6 m SPACING, SLOPED 2:1 TO BORDER
- H. 6.8 m LONG REFLECTORISED WHITE, COMBINED RIGHT OR LEFT ARROW MARKING
- I. 4.0 m LONG REFLECTORISED WHITE, GIVEWAY TRIANGLE SYMBOL
- J. 300 mm WIDE REFLECTORISED SOLID WHITE LIMIT / HOLDING LINE
- K. HUMP RAMP MARKING SYMBOL AS PER TCD MANUAL
- L. 600 X 600 PEDESTRIAN CROSSING AS PER TCD MANUAL
- M. PEDESTRIAN OR CYCLE SYMBOL AS PER TCD MANUAL
- N. ADVANCED WARNING DIAMOND, 100mm REFLECTORISED WHITE
- O. CYCLE SYMBOL AND ARROWS.
- P. 1.2m HIGH 'BUS STOP' AND 'LOADING ZONE' LETTERING
- Q. 100 mm WIDE REFLECTORISED YELLOW LINE 1 m STRIPE, 1m GAP (LOADING ZONES)
- R. 100 mm WIDE REFLECTORISED YELLOW LINE 1 m STRIPE, 2m GAP (LONG BUS STOPS)
- S. 100 mm WIDE REFLECTORISED YELLOW SOLID LINE
- T. 100 mm WIDE REFLECTORISED YELLOW SOLID NO-OVERTAKING LINE
- U. 100 mm WIDE REFLECTORISED YELLOW SOLID NO-OVERTAKING ADVANCED WARNING LINE
- V. RED COLOURED SHARED PATH SURFACING REFER TO NZTA P33 - COLOURED SURFACING

NOTES:

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 - a. MANUAL OF TRAFFIC SIGNS AND MARKINGS.
 - PART 1: SIGNS
 - PART 2: MARKINGS
2. ALL REFLECTORISED MARKINGS TO MEET STANDARDS SPECIFIED IN WAKA KOTAHI NZTA P30 DOCUMENT.
3. ALL KERBS ON TRAFFIC ISLANDS TO BE PAINTED WITH WHITE REFLECTORISED MARKINGS TO MEET STANDARD SPECIFIED IN WAKA KOTAHI NZTA P30 DOCUMENT.
4. RAISED PAVEMENT MARKERS NOT SHOWN, REFER TO MOTSAM FOR LOCATIONS AND REQUIREMENTS.

1:500 @ A1
1:1000 @ A3

REVISION	AMENDMENT	APPROVED	DATE
A	FOR SAFETY AUDIT	ND	2021-07-09
B	DETAILED DESIGN ISSUED FOR CLIENT APPROVAL	RG	2021-08-30
C	DETAILED DESIGN ISSUED FOR TENDER	R.G.	2021-10-22



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PO Box 2323
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New Zealand

CIVIL

SCALES	DESIGNED	APPROVED	ORIGINAL SIZE
1:500 @ A1	P.FIEREK	R.GILL	A1
DRAWN	DESIGNED	APPROVED	
S.GAUTAM	P.FIEREK	R.GILL	
DRAWING VERIFIED	DESIGN VERIFIED	APPROVED DATE	
S.FORBES	S.SHERLAW	2021-08-02	

FOR TENDER

PROJECT	TITLE	WSP PROJECT NO.	PROJ-ORIG-VOL-LOC-TYPE	SHEET NO.	REVISION
QUEENSTOWN LAKES DISTRICT COUNCIL WAKATIPU ACTIVE TRAVEL WATN STAGE 2 ROUTES - ROUTE C5	ROAD MARKINGS AND SIGNAGES SHEET 3 OF 23	6-QX141.00	6-QX141-WSP-01-C5-DR	C302	C



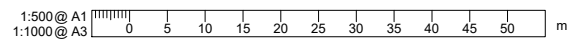
PLAN
SCALE 1:500(A1), 1:1000(A3)

MARKINGS LEGEND

- A. 100 mm WIDE REFLECTORISED WHITE SOLID LINE
- B. 100 mm WIDE REFLECTORISED WHITE CENTRELINE, 3m STRIPE, 7 m GAP
- C. 100 mm WIDE REFLECTORISED WHITE CONTINUITY LINE 1 m STRIPE, 3 m GAP
- D. 100 mm WIDE REFLECTORISED YELLOW NO STOPPING LINE 1 m STRIPE, 2m GAP
- E. 100 mm WIDE REFLECTORISED YELLOW NO STOPPING LINE 1 m STRIPE, 1m GAP
- F. 1.68 m LONG REFLECTORISED WHITE CYCLE SYMBOL
- G. 600 mm WIDE REFLECTORISED WHITE BARS AT MAX 6 m SPACING, SLOPED 2:1 TO BORDER
- H. 6.8 m LONG REFLECTORISED WHITE, COMBINED RIGHT OR LEFT ARROW MARKING
- I. 4.0 m LONG REFLECTORISED WHITE, GIVEWAY TRIANGLE SYMBOL
- J. 300 mm WIDE REFLECTORISED SOLID WHITE LIMIT / HOLDING LINE
- K. HUMP RAMP MARKING SYMBOL AS PER TCD MANUAL
- L. 600 X 600 PEDESTRIAN CROSSING AS PER TCD MANUAL
- M. PEDESTRIAN OR CYCLE SYMBOL AS PER TCD MANUAL
- N. ADVANCED WARNING DIAMOND, 100mm REFLECTORISED WHITE
- O. CYCLE SYMBOL AND ARROWS.
- P. 1.2m HIGH 'BUS STOP' AND 'LOADING ZONE' LETTERING
- Q. 100 mm WIDE REFLECTORISED YELLOW LINE 1 m STRIPE, 1m GAP (LOADING ZONES)
- R. 100 mm WIDE REFLECTORISED YELLOW LINE 1 m STRIPE, 2m GAP (LONG BUS STOPS)
- S. 100 mm WIDE REFLECTORISED YELLOW SOLID LINE
- T. 100 mm WIDE REFLECTORISED YELLOW SOLID NO-OVERTAKING LINE
- U. 100 mm WIDE REFLECTORISED YELLOW SOLID NO-OVERTAKING ADVANCED WARNING LINE
- V. RED COLOURED SHARED PATH SURFACING REFER TO NZTA P33 - COLOURED SURFACING

NOTES:

1. ALL SIGNS AND MARKINGS ARE TO COMPLY WITH WAKA KOTAHI NZ TRANSPORT AGENCY MANUALS
 - a. MANUAL OF TRAFFIC SIGNS AND MARKINGS.
 - PART 1: SIGNS
 - PART 2: MARKINGS
- b. TRAFFIC CONTROL DEVICES MANUAL
2. ALL REFLECTORISED MARKINGS TO MEET STANDARDS SPECIFIED IN WAKA KOTAHI NZTA P30 DOCUMENT.
3. ALL KERBS ON TRAFFIC ISLANDS TO BE PAINTED WITH WHITE REFLECTORISED MARKINGS TO MEET STANDARD SPECIFIED IN WAKA KOTAHI NZTA P30 DOCUMENT.
4. RAISED PAVEMENT MARKERS NOT SHOWN, REFER TO MOTSAM FOR LOCATIONS AND REQUIREMENTS.



REVISION	AMENDMENT	APPROVED	DATE
A	FOR SAFETY AUDIT	ND	2021-07-09
B	DETAILED DESIGN ISSUED FOR CLIENT APPROVAL	RG	2021-08-30
C	DETAILED DESIGN ISSUED FOR TENDER	R.G.	2021-10-22



Queenstown Office
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Queenstown 9300
New Zealand

CIVIL

SCALES	DESIGNED	APPROVED	ORIGINAL SIZE
1:500 @ A1	P.FIEREK	R.GILL	A1
DRAWN	DESIGNED	APPROVED	
S.GAUTAM	P.FIEREK	R.GILL	
DRAWING VERIFIED	DESIGN VERIFIED	APPROVED DATE	
S.FORBES	S.SHERLAW	2021-08-02	

FOR TENDER

PROJECT			
QUEENSTOWN LAKES DISTRICT COUNCIL			
WAKATIPU ACTIVE TRAVEL			
WATN STAGE 2 ROUTES - ROUTE C5			
TITLE			
ROAD MARKINGS AND SIGNAGES			
SHEET 4 OF 23			
WSP PROJECT NO.	PROJ-ORIG-VOL-LOC-TYPE	SHEET NO.	REVISION
6-XQ141.00	6-XQ141-WSP-01-C5-DR	C303	C



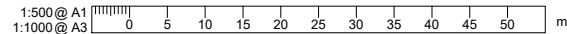
PLAN
SCALE 1:500(A1), 1:1000(A3)

MARKINGS LEGEND

- A. 100 mm WIDE REFLECTORISED WHITE SOLID LINE
- B. 100 mm WIDE REFLECTORISED WHITE CENTRELINE, 3m STRIPE, 7 m GAP
- C. 100 mm WIDE REFLECTORISED WHITE CONTINUITY LINE 1 m STRIPE, 3 m GAP
- D. 100 mm WIDE REFLECTORISED YELLOW NO STOPPING LINE 1 m STRIPE, 2m GAP
- E. 100 mm WIDE REFLECTORISED YELLOW NO STOPPING LINE 1 m STRIPE, 1m GAP
- F. 1.68 m LONG REFLECTORISED WHITE CYCLE SYMBOL
- G. 600 mm WIDE REFLECTORISED WHITE BARS AT MAX 6 m SPACING, SLOPED 2:1 TO BORDER
- H. 6.8 m LONG REFLECTORISED WHITE, COMBINED RIGHT OR LEFT ARROW MARKING
- I. 4.0 m LONG REFLECTORISED WHITE, GIVEWAY TRIANGLE SYMBOL
- J. 300 mm WIDE REFLECTORISED SOLID WHITE LIMIT / HOLDING LINE
- K. HUMPS RAMP MARKING SYMBOL AS PER TCD MANUAL
- L. 600 X 600 PEDESTRIAN CROSSING AS PER TCD MANUAL
- M. PEDESTRIAN OR CYCLE SYMBOL AS PER TCD MANUAL
- N. ADVANCED WARNING DIAMOND, 100mm REFLECTORISED WHITE
- O. CYCLE SYMBOL AND ARROWS.
- P. 1.2m HIGH 'BUS STOP' AND 'LOADING ZONE' LETTERING
- Q. 100 mm WIDE REFLECTORISED YELLOW LINE 1 m STRIPE, 1m GAP (LOADING ZONES)
- R. 100 mm WIDE REFLECTORISED YELLOW LINE 1 m STRIPE, 2m GAP (LONG BUS STOPS)
- S. 100 mm WIDE REFLECTORISED YELLOW SOLID LINE
- T. 100 mm WIDE REFLECTORISED YELLOW SOLID NO-OVERTAKING LINE
- U. 100 mm WIDE REFLECTORISED YELLOW SOLID NO-OVERTAKING ADVANCED WARNING LINE
- V. RED COLOURED SHARED PATH SURFACING REFER TO NZTA P33 - COLOURED SURFACING

NOTES:

1. ALL SIGNS AND MARKINGS ARE TO COMPLY WITH WAKA KOTAHI NZ TRANSPORT AGENCY MANUALS
 - a. MANUAL OF TRAFFIC SIGNS AND MARKINGS.
 - PART 1: SIGNS
 - PART 2: MARKINGS
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2. ALL REFLECTORISED MARKINGS TO MEET STANDARDS SPECIFIED IN WAKA KOTAHI NZTA P30 DOCUMENT.
3. ALL KERBS ON TRAFFIC ISLANDS TO BE PAINTED WITH WHITE REFLECTORISED MARKINGS TO MEET STANDARD SPECIFIED IN WAKA KOTAHI NZTA P30 DOCUMENT.
4. RAISED PAVEMENT MARKERS NOT SHOWN, REFER TO MOTSAM FOR LOCATIONS AND REQUIREMENTS.



REVISION	AMENDMENT	APPROVED	DATE
A	FOR SAFETY AUDIT	ND	2021-07-09
B	DETAILED DESIGN ISSUED FOR CLIENT APPROVAL	RG	2021-08-30
C	DETAILED DESIGN ISSUED FOR TENDER	R.G.	2021-10-22



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Queenstown Office
+64 3 451 0360
PO Box 2323
Queenstown 9300
New Zealand

CIVIL

SCALES	DESIGNED	APPROVED
1:500 @ A1	P.FIEREK	R.GILL
1:1000 @ A3	S.GAUTAM	S.SHERLAW
DRAWN	S.GAUTAM	APPROVED DATE
DRAWING VERIFIED	S.FORBES	2021-08-02

FOR TENDER

PROJECT		SHEET NO.	
QUEENSTOWN LAKES DISTRICT COUNCIL WAKATIPU ACTIVE TRAVEL WATN STAGE 2 ROUTES - ROUTE C5		C304	C
TITLE		REVISION	
ROAD MARKINGS AND SIGNAGES SHEET 5 OF 23		C304	C
WSP PROJECT NO.	PROJ-ORIG-VOL-LOC-TYPE	SHEET NO.	REVISION
6-XQ141.00	6-XQ141-WSP-01-C5-DR	C304	C



PLAN
SCALE 1:500(A1), 1:1000(A3)

MARKINGS LEGEND

- A. 100 mm WIDE REFLECTORISED WHITE SOLID LINE
- B. 100 mm WIDE REFLECTORISED WHITE CENTRELINE, 3m STRIPE, 7 m GAP
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- D. 100 mm WIDE REFLECTORISED YELLOW NO STOPPING LINE 1 m STRIPE, 2m GAP
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- L. 600 X 600 PEDESTRIAN CROSSING AS PER TCD MANUAL
- M. PEDESTRIAN OR CYCLE SYMBOL AS PER TCD MANUAL
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- T. 100 mm WIDE REFLECTORISED YELLOW SOLID NO-OVERTAKING LINE
- U. 100 mm WIDE REFLECTORISED YELLOW SOLID NO-OVERTAKING ADVANCED WARNING LINE
- V. RED COLOURED SHARED PATH SURFACING REFER TO NZTA P33 - COLOURED SURFACING

NOTES:

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 - PART 1: SIGNS
 - PART 2: MARKINGS
2. ALL REFLECTORISED MARKINGS TO MEET STANDARDS SPECIFIED IN WAKA KOTAHI NZTA P30 DOCUMENT.
3. ALL KERBS ON TRAFFIC ISLANDS TO BE PAINTED WITH WHITE REFLECTORISED MARKINGS TO MEET STANDARD SPECIFIED IN WAKA KOTAHI NZTA P30 DOCUMENT.
4. RAISED PAVEMENT MARKERS NOT SHOWN, REFER TO MOTSAM FOR LOCATIONS AND REQUIREMENTS.

1:500 @ A1
1:1000 @ A3

REVISION	AMENDMENT	APPROVED	DATE
A	FOR SAFETY AUDIT	ND	2021-07-09
B	DETAILED DESIGN ISSUED FOR CLIENT APPROVAL	RG	2021-08-30
C	DETAILED DESIGN ISSUED FOR TENDER	R.G.	2021-10-22



wsp
Queenstown Office
+64 3 451 0360
PO Box 2323
Queenstown 9300
New Zealand

CIVIL

SCALES		ORIGINAL SIZE
1:500 @ A1		A1
DRAWN	DESIGNED	APPROVED
S.GAUTAM	P.FIEREK	R.GILL
DRAWING VERIFIED	DESIGN VERIFIED	APPROVED DATE
S.FORBES	S.SHERLAW	2021-08-02

FOR TENDER

PROJECT			
QUEENSTOWN LAKES DISTRICT COUNCIL WAKATIPU ACTIVE TRAVEL WATN STAGE 2 ROUTES - ROUTE C5			
TITLE			
ROAD MARKINGS AND SIGNAGES SHEET 6 OF 23			
WSP PROJECT NO.	PROJ-ORIG-VOL-LOC-TYPE	SHEET NO.	REVISION
6-QX141.00	6-QX141-WSP-01-C5-DR	C305	C



PLAN
SCALE 1:500(A1), 1:1000(A3)

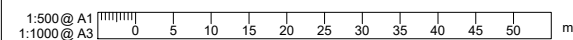
MARKINGS LEGEND

- A. 100 mm WIDE REFLECTORISED WHITE SOLID LINE
- B. 100 mm WIDE REFLECTORISED WHITE CENTRELINE, 3m STRIPE, 7 m GAP
- C. 100 mm WIDE REFLECTORISED WHITE CONTINUITY LINE 1 m STRIPE, 3 m GAP
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- E. 100 mm WIDE REFLECTORISED YELLOW NO STOPPING LINE 1 m STRIPE, 1m GAP
- F. 1.68 m LONG REFLECTORISED WHITE CYCLE SYMBOL
- G. 600 mm WIDE REFLECTORISED WHITE BARS AT MAX 6 m SPACING, SLOPED 2:1 TO BORDER
- H. 6.8 m LONG REFLECTORISED WHITE, COMBINED RIGHT OR LEFT ARROW MARKING
- I. 4.0 m LONG REFLECTORISED WHITE, GIVEWAY TRIANGLE SYMBOL
- J. 300 mm WIDE REFLECTORISED SOLID WHITE LIMIT / HOLDING LINE
- K. HUMPS RAMP MARKING SYMBOL AS PER TCD MANUAL
- L. 600 X 600 PEDESTRIAN CROSSING AS PER TCD MANUAL
- M. PEDESTRIAN OR CYCLE SYMBOL AS PER TCD MANUAL
- N. ADVANCED WARNING DIAMOND, 100mm REFLECTORISED WHITE
- O. CYCLE SYMBOL AND ARROWS.
- P. 1.2m HIGH 'BUS STOP' AND 'LOADING ZONE' LETTERING
- Q. 100 mm WIDE REFLECTORISED YELLOW LINE 1 m STRIPE, 1m GAP (LOADING ZONES)
- R. 100 mm WIDE REFLECTORISED YELLOW LINE 1 m STRIPE, 2m GAP (LONG BUS STOPS)
- S. 100 mm WIDE REFLECTORISED YELLOW SOLID LINE
- T. 100 mm WIDE REFLECTORISED YELLOW SOLID NO-OVERTAKING LINE
- U. 100 mm WIDE REFLECTORISED YELLOW SOLID NO-OVERTAKING ADVANCED WARNING LINE
- V. RED COLOURED SHARED PATH SURFACING REFER TO NZTA P33 - COLOURED SURFACING

NOTES:

1. ALL SIGNS AND MARKINGS ARE TO COMPLY WITH WAKA KOTAHI NZ TRANSPORT AGENCY MANUALS
 - a. MANUAL OF TRAFFIC SIGNS AND MARKINGS.
 - PART 1: SIGNS
 - PART 2: MARKINGS
2. ALL REFLECTORISED MARKINGS TO MEET STANDARDS SPECIFIED IN WAKA KOTAHI NZTA P30 DOCUMENT.
3. ALL KERBS ON TRAFFIC ISLANDS TO BE PAINTED WITH WHITE REFLECTORISED MARKINGS TO MEET STANDARD SPECIFIED IN WAKA KOTAHI NZTA P30 DOCUMENT.
4. RAISED PAVEMENT MARKERS NOT SHOWN, REFER TO MOTSAM FOR LOCATIONS AND REQUIREMENTS.

300 mm
200
100
50
0 10 mm



REVISION	AMENDMENT	APPROVED	DATE
A	FOR SAFETY AUDIT	ND	2021-07-09
B	DETAILED DESIGN ISSUED FOR CLIENT APPROVAL	RG	2021-08-30
C	DETAILED DESIGN ISSUED FOR TENDER	R.G.	2021-10-22



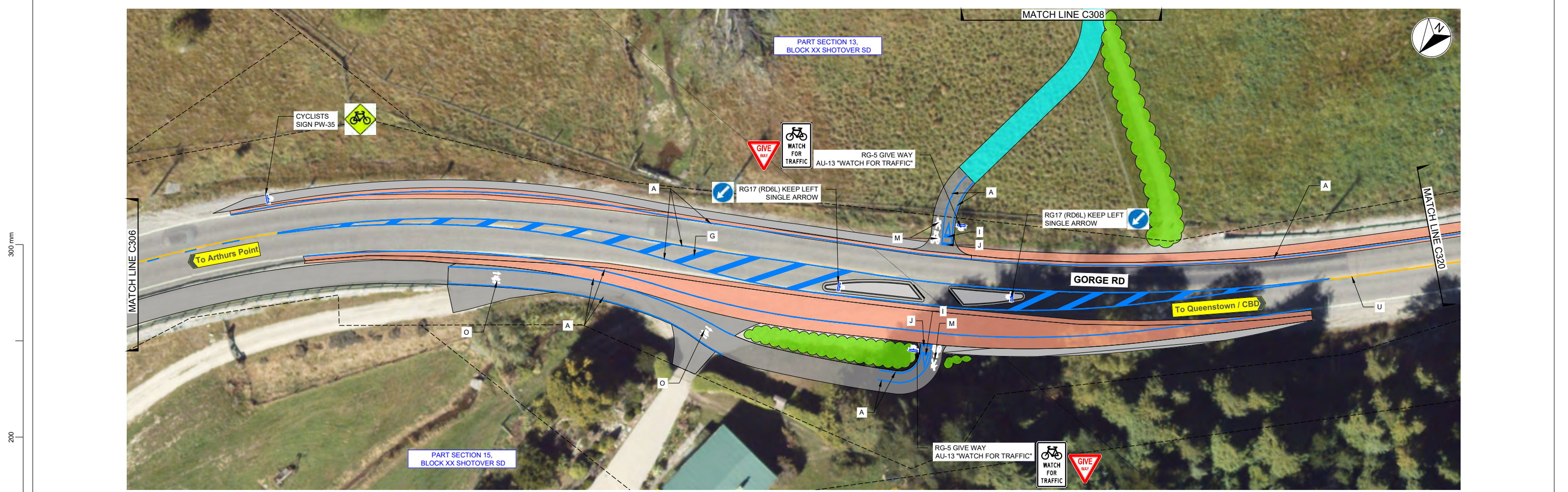
wsp
Queenstown Office
+64 3 451 0360
PO Box 2323
Queenstown 9300
New Zealand

CIVIL

SCALES		ORIGINAL SIZE
1:500 @ A1		A1
1:1000 @ A3		
DRAWN	DESIGNED	APPROVED
S.GAUTAM	P.FIEREK	R.GILL
DRAWING VERIFIED	DESIGN VERIFIED	APPROVED DATE
S.FORBES	S.SHERLAW	2021-08-02

FOR TENDER

PROJECT			
QUEENSTOWN LAKES DISTRICT COUNCIL WAKATIPU ACTIVE TRAVEL WATN STAGE 2 ROUTES - ROUTE C5			
TITLE			
ROAD MARKINGS AND SIGNAGES SHEET 7 OF 23			
WSP PROJECT NO.	PROJ-ORIG-VOL-LOC-TYPE	SHEET NO.	REVISION
6-XQ141.00	6-XQ141-WSP-01-C5-DR	C306	C



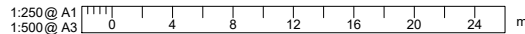
PLAN
SCALE 1:250(A1), 1:500(A3)

MARKINGS LEGEND

- A. 100 mm WIDE REFLECTORISED WHITE SOLID LINE
- B. 100 mm WIDE REFLECTORISED WHITE CENTRELINE, 3m STRIPE, 7 m GAP
- C. 100 mm WIDE REFLECTORISED WHITE CONTINUITY LINE 1 m STRIPE, 3 m GAP
- D. 100 mm WIDE REFLECTORISED YELLOW NO STOPPING LINE 1 m STRIPE, 2m GAP
- E. 100 mm WIDE REFLECTORISED YELLOW NO STOPPING LINE 1 m STRIPE, 1m GAP
- F. 1.68 m LONG REFLECTORISED WHITE CYCLE SYMBOL
- G. 600 mm WIDE REFLECTORISED WHITE BARS AT MAX 6 m SPACING, SLOPED 2:1 TO BORDER
- H. 6.8 m LONG REFLECTORISED WHITE, COMBINED RIGHT OR LEFT ARROW MARKING
- I. 4.0 m LONG REFLECTORISED WHITE, GIVEWAY TRIANGLE SYMBOL
- J. 300 mm WIDE REFLECTORISED SOLID WHITE LIMIT / HOLDING LINE
- K. HUMPH RAMP MARKING SYMBOL AS PER TCD MANUAL
- L. 600 X 600 PEDESTRIAN CROSSING AS PER TCD MANUAL
- M. PEDESTRIAN OR CYCLE SYMBOL AS PER TCD MANUAL
- N. ADVANCED WARNING DIAMOND, 100mm REFLECTORISED WHITE
- O. CYCLE SYMBOL AND ARROWS.
- P. 1.2m HIGH 'BUS STOP' AND 'LOADING ZONE' LETTERING
- Q. 100 mm WIDE REFLECTORISED YELLOW LINE 1 m STRIPE, 1m GAP (LOADING ZONES)
- R. 100 mm WIDE REFLECTORISED YELLOW LINE 1 m STRIPE, 2m GAP (LONG BUS STOPS)
- S. 100 mm WIDE REFLECTORISED YELLOW SOLID LINE
- T. 100 mm WIDE REFLECTORISED YELLOW SOLID NO-OVERTAKING LINE
- U. 100 mm WIDE REFLECTORISED YELLOW SOLID NO-OVERTAKING ADVANCED WARNING LINE
- V. RED COLOURED SHARED PATH SURFACING REFER TO NZTA P33 - COLOURED SURFACING

NOTES:

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 - PART 2: MARKINGS
- TRAFFIC CONTROL DEVICES MANUAL
- ALL REFLECTORISED MARKINGS TO MEET STANDARDS SPECIFIED IN WAKA KOTAHI NZTA P30 DOCUMENT.
- ALL KERBS ON TRAFFIC ISLANDS TO BE PAINTED WITH WHITE REFLECTORISED MARKINGS TO MEET STANDARD SPECIFIED IN WAKA KOTAHI NZTA P30 DOCUMENT.
- RAISED PAVEMENT MARKERS NOT SHOWN, REFER TO MOTSAM FOR LOCATIONS AND REQUIREMENTS.



REVISION	AMENDMENT	APPROVED	DATE
A	FOR SAFETY AUDIT	ND	2021-07-09
B	DETAILED DESIGN ISSUED FOR CLIENT APPROVAL	RG	2021-08-30
C	DETAILED DESIGN ISSUED FOR TENDER	R.G.	2021-10-22



wsp
Queenstown Office
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PO Box 2323
Queenstown 9300
New Zealand

CIVIL

SCALES		ORIGINAL SIZE
1:250 @ A1		A1
1:500 @ A3		
DRAWN	DESIGNED	APPROVED
S.GAUTAM	P.FIEREK	R.GILL
DRAWING VERIFIED	DESIGN VERIFIED	APPROVED DATE
S.FORBES	S.SHERLAW	2021-08-02

FOR TENDER

PROJECT			
QUEENSTOWN LAKES DISTRICT COUNCIL WAKATIPU ACTIVE TRAVEL WATN STAGE 2 ROUTES - ROUTE C5			
TITLE			
ROAD MARKINGS AND SIGNAGES SHEET 8 OF 23			
WSP PROJECT NO.	PROJ-ORIG-VOL-LOC-TYPE	SHEET NO.	REVISION
6-XQ141.00	6-XQ141-WSP-01-C5-DR	C307	C



PLAN
SCALE 1:500(A1), 1:1000(A3)

MARKINGS LEGEND

- A. 100 mm WIDE REFLECTORISED WHITE SOLID LINE
- B. 100 mm WIDE REFLECTORISED WHITE CENTRELINE, 3m STRIPE, 7 m GAP
- C. 100 mm WIDE REFLECTORISED WHITE CONTINUITY LINE 1 m STRIPE, 3 m GAP
- D. 100 mm WIDE REFLECTORISED YELLOW NO STOPPING LINE 1 m STRIPE, 2m GAP
- E. 100 mm WIDE REFLECTORISED YELLOW NO STOPPING LINE 1 m STRIPE, 1m GAP
- F. 1.68 m LONG REFLECTORISED WHITE CYCLE SYMBOL
- G. 600 mm WIDE REFLECTORISED WHITE BARS AT MAX 6 m SPACING, SLOPED 2:1 TO BORDER
- H. 6.8 m LONG REFLECTORISED WHITE, COMBINED RIGHT OR LEFT ARROW MARKING
- I. 4.0 m LONG REFLECTORISED WHITE, GIVEWAY TRIANGLE SYMBOL
- J. 300 mm WIDE REFLECTORISED SOLID WHITE LIMIT / HOLDING LINE
- K. HUMP RAMP MARKING SYMBOL AS PER TCD MANUAL
- L. 600 X 600 PEDESTRIAN CROSSING AS PER TCD MANUAL
- M. PEDESTRIAN OR CYCLE SYMBOL AS PER TCD MANUAL
- N. ADVANCED WARNING DIAMOND, 100mm REFLECTORISED WHITE
- O. CYCLE SYMBOL AND ARROWS.
- P. 1.2m HIGH 'BUS STOP' AND 'LOADING ZONE' LETTERING
- Q. 100 mm WIDE REFLECTORISED YELLOW LINE 1 m STRIPE, 1m GAP (LOADING ZONES)
- R. 100 mm WIDE REFLECTORISED YELLOW LINE 1 m STRIPE, 2m GAP (LONG BUS STOPS)
- S. 100 mm WIDE REFLECTORISED YELLOW SOLID LINE
- T. 100 mm WIDE REFLECTORISED YELLOW SOLID NO-OVERTAKING LINE
- U. 100 mm WIDE REFLECTORISED YELLOW SOLID NO-OVERTAKING ADVANCED WARNING LINE
- V. RED COLOURED SHARED PATH SURFACING REFER TO NZTA P33 - COLOURED SURFACING

NOTES:

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 - PART 2: MARKINGS
 - b. TRAFFIC CONTROL DEVICES MANUAL
2. ALL REFLECTORISED MARKINGS TO MEET STANDARDS SPECIFIED IN WAKA KOTAHI NZTA P30 DOCUMENT.
3. ALL KERBS ON TRAFFIC ISLANDS TO BE PAINTED WITH WHITE REFLECTORISED MARKINGS TO MEET STANDARD SPECIFIED IN WAKA KOTAHI NZTA P30 DOCUMENT.
4. RAISED PAVEMENT MARKERS NOT SHOWN, REFER TO MOTSAM FOR LOCATIONS AND REQUIREMENTS.

300 mm

200

100

50

0

10 mm

1:500 @ A1
1:1000 @ A3

REVISION	AMENDMENT	APPROVED	DATE
A	FOR SAFETY AUDIT	ND	2021-07-09
B	DETAILED DESIGN ISSUED FOR CLIENT APPROVAL	RG	2021-08-30
C	DETAILED DESIGN ISSUED FOR TENDER	R.G.	2021-10-22



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New Zealand

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SCALES	DESIGNED	APPROVED	ORIGINAL SIZE
1:500 @ A1	P.FIEREK	R.GILL	A1
DRAWN	DESIGNED	APPROVED	
S.GAUTAM	P.FIEREK	R.GILL	
DRAWING VERIFIED	DESIGN VERIFIED	APPROVED DATE	
S.FORBES	S.SHERLAW	2021-08-02	

FOR TENDER

PROJECT			
QUEENSTOWN LAKES DISTRICT COUNCIL			
WAKATIPU ACTIVE TRAVEL			
WATN STAGE 2 ROUTES - ROUTE C5			
TITLE			
ROAD MARKINGS AND SIGNAGES			
SHEET 9 OF 23			
WSP PROJECT NO.	PROJ-ORIG-VOL-LOC-TYPE	SHEET NO.	REVISION
6-XQ141.00	6-XQ141-WSP-01-C5-DR	C308	C



300 mm
200
100
50
0 10 mm

PLAN
SCALE 1:500(A1), 1:1000(A3)

MARKINGS LEGEND

- A. 100 mm WIDE REFLECTORISED WHITE SOLID LINE
- B. 100 mm WIDE REFLECTORISED WHITE CENTRELINE, 3m STRIPE, 7 m GAP
- C. 100 mm WIDE REFLECTORISED WHITE CONTINUITY LINE 1 m STRIPE, 3 m GAP
- D. 100 mm WIDE REFLECTORISED YELLOW NO STOPPING LINE 1 m STRIPE, 2m GAP
- E. 100 mm WIDE REFLECTORISED YELLOW NO STOPPING LINE 1 m STRIPE, 1m GAP
- F. 1.68 m LONG REFLECTORISED WHITE CYCLE SYMBOL
- G. 600 mm WIDE REFLECTORISED WHITE BARS AT MAX 6 m SPACING, SLOPED 2:1 TO BORDER
- H. 6.8 m LONG REFLECTORISED WHITE, COMBINED RIGHT OR LEFT ARROW MARKING
- I. 4.0 m LONG REFLECTORISED WHITE, GIVEWAY TRIANGLE SYMBOL
- J. 300 mm WIDE REFLECTORISED SOLID WHITE LIMIT / HOLDING LINE
- K. HUMP RAMP MARKING SYMBOL AS PER TCD MANUAL
- L. 600 X 600 PEDESTRIAN CROSSING AS PER TCD MANUAL
- M. PEDESTRIAN OR CYCLE SYMBOL AS PER TCD MANUAL
- N. ADVANCED WARNING DIAMOND, 100mm REFLECTORISED WHITE
- O. CYCLE SYMBOL AND ARROWS.
- P. 1.2m HIGH 'BUS STOP' AND 'LOADING ZONE' LETTERING
- Q. 100 mm WIDE REFLECTORISED YELLOW LINE 1 m STRIPE, 1m GAP (LOADING ZONES)
- R. 100 mm WIDE REFLECTORISED YELLOW LINE 1 m STRIPE, 2m GAP (LONG BUS STOPS)
- S. 100 mm WIDE REFLECTORISED YELLOW SOLID LINE
- T. 100 mm WIDE REFLECTORISED YELLOW SOLID NO-OVERTAKING LINE
- U. 100 mm WIDE REFLECTORISED YELLOW SOLID NO-OVERTAKING ADVANCED WARNING LINE
- V. RED COLOURED SHARED PATH SURFACING REFER TO NZTA P33 - COLOURED SURFACING

NOTES:

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3. ALL KERBS ON TRAFFIC ISLANDS TO BE PAINTED WITH WHITE REFLECTORISED MARKINGS TO MEET STANDARD SPECIFIED IN WAKA KOTAHI NZTA P30 DOCUMENT.
4. RAISED PAVEMENT MARKERS NOT SHOWN, REFER TO MOTSAM FOR LOCATIONS AND REQUIREMENTS.

1:500 @ A1
1:1000 @ A3

REVISION	AMENDMENT	APPROVED	DATE
A	FOR SAFETY AUDIT	ND	2021-07-09
B	DETAILED DESIGN ISSUED FOR CLIENT APPROVAL	RG	2021-08-30
C	DETAILED DESIGN ISSUED FOR TENDER	R.G.	2021-10-22



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PO Box 2323
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New Zealand

CIVIL

SCALES	DESIGNED	APPROVED	ORIGINAL SIZE
1:500 @ A1	P.FIEREK	R.GILL	A1
DRAWN	DESIGNED	APPROVED	
S.GAUTAM	P.FIEREK	R.GILL	
DRAWING VERIFIED	DESIGN VERIFIED	APPROVED DATE	
S.FORBES	S.SHERLAW	2021-08-02	

FOR TENDER

PROJECT			
QUEENSTOWN LAKES DISTRICT COUNCIL			
WAKATIPU ACTIVE TRAVEL			
WATN STAGE 2 ROUTES - ROUTE C5			
TITLE			
ROAD MARKINGS AND SIGNAGES			
SHEET 10 OF 23			
WSP PROJECT NO.	PROJ-ORIG-VOL-LOC-TYPE	SHEET NO.	REVISION
6-XQ141.00	6-XQ141-WSP-01-C5-DR	C309	C



PLAN
SCALE 1:500(A1), 1:1000(A3)

MARKINGS LEGEND

- A. 100 mm WIDE REFLECTORISED WHITE SOLID LINE
- B. 100 mm WIDE REFLECTORISED WHITE CENTRELINE, 3m STRIPE, 7 m GAP
- C. 100 mm WIDE REFLECTORISED WHITE CONTINUITY LINE 1 m STRIPE, 3 m GAP
- D. 100 mm WIDE REFLECTORISED YELLOW NO STOPPING LINE 1 m STRIPE, 2m GAP
- E. 100 mm WIDE REFLECTORISED YELLOW NO STOPPING LINE 1 m STRIPE, 1m GAP
- F. 1.68 m LONG REFLECTORISED WHITE CYCLE SYMBOL
- G. 600 mm WIDE REFLECTORISED WHITE BARS AT MAX 6 m SPACING, SLOPED 2:1 TO BORDER
- H. 6.8 m LONG REFLECTORISED WHITE, COMBINED RIGHT OR LEFT ARROW MARKING
- I. 4.0 m LONG REFLECTORISED WHITE, GIVEWAY TRIANGLE SYMBOL
- J. 300 mm WIDE REFLECTORISED SOLID WHITE LIMIT / HOLDING LINE
- K. HUMP RAMP MARKING SYMBOL AS PER TCD MANUAL
- L. 600 X 600 PEDESTRIAN CROSSING AS PER TCD MANUAL
- M. PEDESTRIAN OR CYCLE SYMBOL AS PER TCD MANUAL
- N. ADVANCED WARNING DIAMOND, 100mm REFLECTORISED WHITE
- O. CYCLE SYMBOL AND ARROWS.
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- R. 100 mm WIDE REFLECTORISED YELLOW LINE 1 m STRIPE, 2m GAP (LONG BUS STOPS)
- S. 100 mm WIDE REFLECTORISED YELLOW SOLID LINE
- T. 100 mm WIDE REFLECTORISED YELLOW SOLID NO-OVERTAKING LINE
- U. 100 mm WIDE REFLECTORISED YELLOW SOLID NO-OVERTAKING ADVANCED WARNING LINE
- V. RED COLOURED SHARED PATH SURFACING REFER TO NZTA P33 - COLOURED SURFACING

NOTES:

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3. ALL KERBS ON TRAFFIC ISLANDS TO BE PAINTED WITH WHITE REFLECTORISED MARKINGS TO MEET STANDARD SPECIFIED IN WAKA KOTAHI NZTA P30 DOCUMENT.
4. RAISED PAVEMENT MARKERS NOT SHOWN, REFER TO MOTSAM FOR LOCATIONS AND REQUIREMENTS.

1:500 @ A1
1:1000 @ A3

REVISION	AMENDMENT	APPROVED	DATE
A	FOR SAFETY AUDIT	ND	2021-07-09
B	DETAILED DESIGN ISSUED FOR CLIENT APPROVAL	RG	2021-08-30
C	DETAILED DESIGN ISSUED FOR TENDER	R.G.	2021-10-22



Queenstown Office
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PO Box 2323
Queenstown 9300
New Zealand

CIVIL

SCALES
1:500 @ A1 ORIGINAL SIZE A1

DRAWN	DESIGNED	APPROVED
S.GAUTAM	P.FIEREK	R.GILL
DRAWING VERIFIED	DESIGN VERIFIED	APPROVED DATE
S.FORBES	S.SHERLAW	2021-08-02

FOR TENDER

PROJECT
QUEENSTOWN LAKES DISTRICT COUNCIL
WAKATIPU ACTIVE TRAVEL
WATN STAGE 2 ROUTES - ROUTE C5

TITLE
ROAD MARKINGS AND SIGNAGES
SHEET 11 OF 23

WSP PROJECT NO.	PROJ-ORIG-VOL-LOC-TYPE	SHEET NO.	REVISION
6-XQ141.00	6-XQ141-WSP-01-C5-DR	C310	C



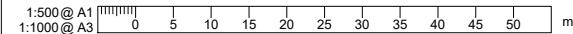
PLAN
SCALE 1:500(A1), 1:1000(A3)

MARKINGS LEGEND

- A. 100 mm WIDE REFLECTORISED WHITE SOLID LINE
- B. 100 mm WIDE REFLECTORISED WHITE CENTRELINE, 3m STRIPE, 7 m GAP
- C. 100 mm WIDE REFLECTORISED WHITE CONTINUITY LINE 1 m STRIPE, 3 m GAP
- D. 100 mm WIDE REFLECTORISED YELLOW NO STOPPING LINE 1 m STRIPE, 2m GAP
- E. 100 mm WIDE REFLECTORISED YELLOW NO STOPPING LINE 1 m STRIPE, 1m GAP
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- G. 600 mm WIDE REFLECTORISED WHITE BARS AT MAX 6 m SPACING, SLOPED 2:1 TO BORDER
- H. 6.8 m LONG REFLECTORISED WHITE, COMBINED RIGHT OR LEFT ARROW MARKING
- I. 4.0 m LONG REFLECTORISED WHITE, GIVEWAY TRIANGLE SYMBOL
- J. 300 mm WIDE REFLECTORISED SOLID WHITE LIMIT / HOLDING LINE
- K. HUMPH RAMP MARKING SYMBOL AS PER TCD MANUAL
- L. 600 X 600 PEDESTRIAN CROSSING AS PER TCD MANUAL
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- U. 100 mm WIDE REFLECTORISED YELLOW SOLID NO-OVERTAKING ADVANCED WARNING LINE
- V. RED COLOURED SHARED PATH SURFACING REFER TO NZTA P33 - COLOURED SURFACING

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REVISION	AMENDMENT	APPROVED	DATE
A	FOR SAFETY AUDIT	ND	2021-07-09
B	DETAILED DESIGN ISSUED FOR CLIENT APPROVAL	RG	2021-08-30
C	DETAILED DESIGN ISSUED FOR TENDER	R.G.	2021-10-22



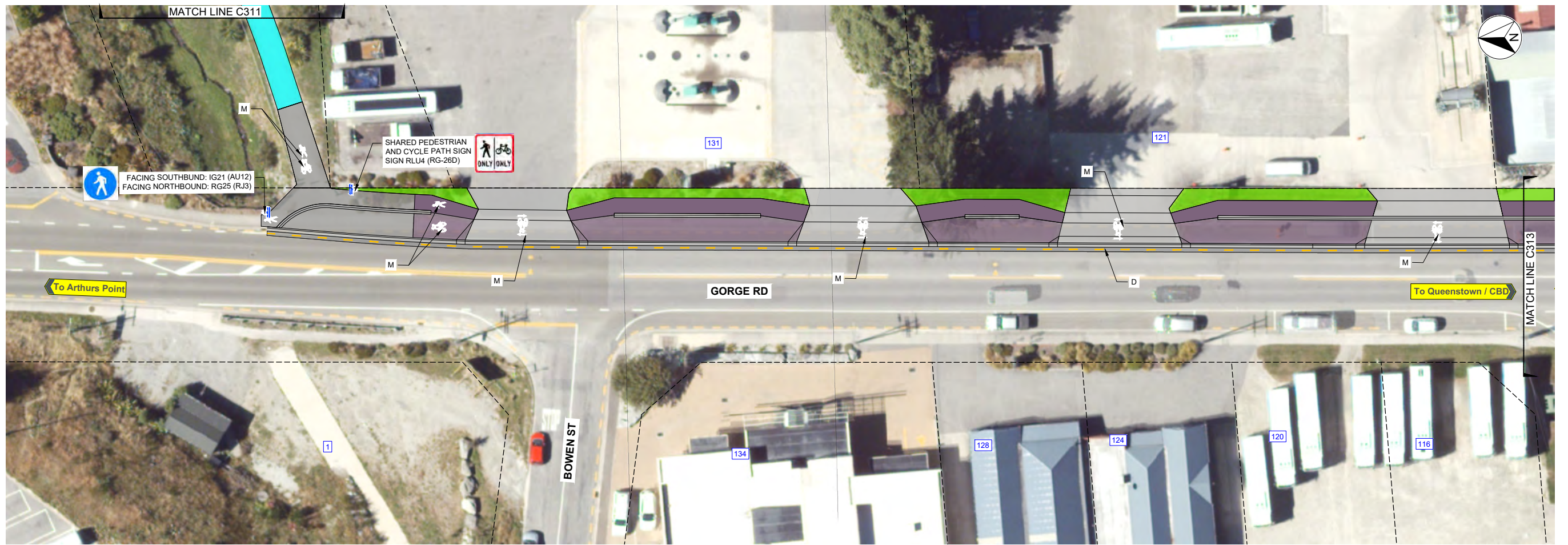
wsp
Queenstown Office
+64 3 451 0360
PO Box 2323
Queenstown 9300
New Zealand

CIVIL

SCALES		ORIGINAL SIZE
1:500 @ A1		A1
1:1000 @ A3		
DRAWN	DESIGNED	APPROVED
S.GAUTAM	P.FIEREK	R.GILL
DRAWING VERIFIED	DESIGN VERIFIED	APPROVED DATE
S.FORBES	S.SHERLAW	2021-08-02

FOR TENDER

PROJECT			
QUEENSTOWN LAKES DISTRICT COUNCIL WAKATIPU ACTIVE TRAVEL WATN STAGE 2 ROUTES - ROUTE C5			
TITLE			
ROAD MARKINGS AND SIGNAGES SHEET 12 OF 23			
WSP PROJECT NO.	PROJ-ORIG-VOL-LOC-TYPE	SHEET NO.	REVISION
6-QX141.00	6-QX141-WSP-01-C5-DR	C311	C



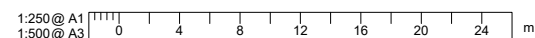
PLAN
SCALE 1:250(A1), 1:500(A3)

MARKINGS LEGEND

- A. 100 mm WIDE REFLECTORISED WHITE SOLID LINE
- B. 100 mm WIDE REFLECTORISED WHITE CENTRELINE, 3m STRIPE, 7 m GAP
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- U. 100 mm WIDE REFLECTORISED YELLOW SOLID NO-OVERTAKING ADVANCED WARNING LINE
- V. RED COLOURED SHARED PATH SURFACING REFER TO NZTA P33 - COLOURED SURFACING

NOTES:

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 - a. MANUAL OF TRAFFIC SIGNS AND MARKINGS.
 - PART 1: SIGNS
 - PART 2: MARKINGS
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3. ALL KERBS ON TRAFFIC ISLANDS TO BE PAINTED WITH WHITE REFLECTORISED MARKINGS TO MEET STANDARD SPECIFIED IN WAKA KOTAHI NZTA P30 DOCUMENT.
4. RAISED PAVEMENT MARKERS NOT SHOWN, REFER TO MOTSAM FOR LOCATIONS AND REQUIREMENTS.



REVISION	AMENDMENT	APPROVED	DATE
A	FOR SAFETY AUDIT	ND	2021-07-09
B	DETAILED DESIGN ISSUED FOR CLIENT APPROVAL	RG	2021-08-30
C	DETAILED DESIGN ISSUED FOR TENDER	R.G.	2021-10-22



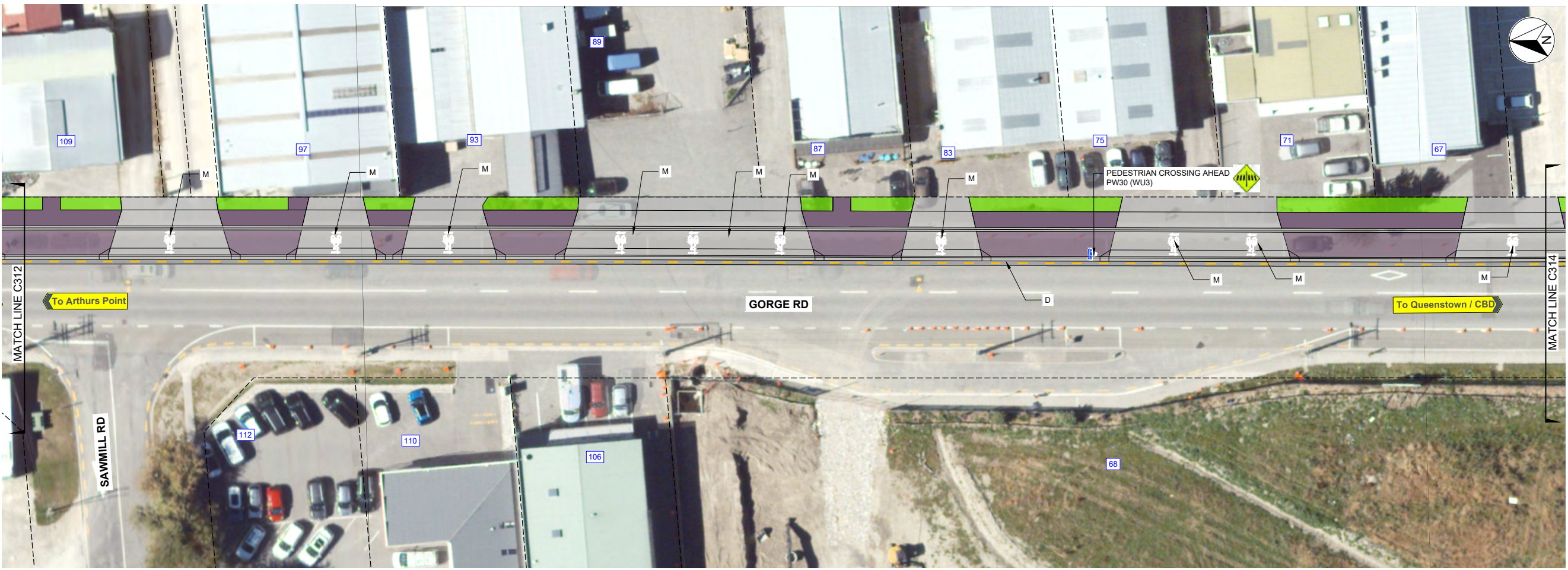
Queenstown Office
+64 3 451 0360
PO Box 2323
Queenstown 9300
New Zealand

CIVIL

SCALES	DESIGNED	APPROVED	ORIGINAL SIZE
1:250 @ A1	P.FIEREK	R.GILL	A1
DRAWN	DESIGNED	APPROVED	
S.GAUTAM	P.FIEREK	R.GILL	
DRAWING VERIFIED	DESIGN VERIFIED	APPROVED DATE	
S.FORBES	S.SHERLAW	2021-08-02	

FOR TENDER

PROJECT		SHEET NO.	
QUEENSTOWN LAKES DISTRICT COUNCIL WAKATIPU ACTIVE TRAVEL WATN STAGE 2 ROUTES - ROUTE C5		C312	C
TITLE		REVISION	
ROAD MARKINGS AND SIGNAGES SHEET 13 OF 23		C312	C
WSP PROJECT NO.	PROJ-ORIG-VOL-LOC-TYPE	SHEET NO.	REVISION
6-XQ141.00	6-XQ141-WSP-01-C5-DR	C312	C



PLAN
SCALE 1:250(A1), 1:500(A3)

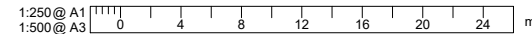
MARKINGS LEGEND

- A. 100 mm WIDE REFLECTORISED WHITE SOLID LINE
- B. 100 mm WIDE REFLECTORISED WHITE CENTRELINE, 3m STRIPE, 7 m GAP
- C. 100 mm WIDE REFLECTORISED WHITE CONTINUITY LINE 1 m STRIPE, 3 m GAP
- D. 100 mm WIDE REFLECTORISED YELLOW NO STOPPING LINE 1 m STRIPE, 2m GAP
- E. 100 mm WIDE REFLECTORISED YELLOW NO STOPPING LINE 1 m STRIPE, 1m GAP
- F. 1.68 m LONG REFLECTORISED WHITE CYCLE SYMBOL
- G. 600 mm WIDE REFLECTORISED WHITE BARS AT MAX 6 m SPACING, SLOPED 2:1 TO BORDER
- H. 6.8 m LONG REFLECTORISED WHITE, COMBINED RIGHT OR LEFT ARROW MARKING
- I. 4.0 m LONG REFLECTORISED WHITE, GIVEWAY TRIANGLE SYMBOL
- J. 300 mm WIDE REFLECTORISED SOLID WHITE LIMIT / HOLDING LINE
- K. HUMPS RAMP MARKING SYMBOL AS PER TCD MANUAL
- L. 600 X 600 PEDESTRIAN CROSSING AS PER TCD MANUAL
- M. PEDESTRIAN OR CYCLE SYMBOL AS PER TCD MANUAL
- N. ADVANCED WARNING DIAMOND, 100mm REFLECTORISED WHITE
- O. CYCLE SYMBOL AND ARROWS.
- P. 1.2m HIGH 'BUS STOP' AND 'LOADING ZONE' LETTERING
- Q. 100 mm WIDE REFLECTORISED YELLOW LINE 1 m STRIPE, 1m GAP (LOADING ZONES)
- R. 100 mm WIDE REFLECTORISED YELLOW LINE 1 m STRIPE, 2m GAP (LONG BUS STOPS)
- S. 100 mm WIDE REFLECTORISED YELLOW SOLID LINE
- T. 100 mm WIDE REFLECTORISED YELLOW SOLID NO-OVERTAKING LINE
- U. 100 mm WIDE REFLECTORISED YELLOW SOLID NO-OVERTAKING ADVANCED WARNING LINE
- V. RED COLOURED SHARED PATH SURFACING REFER TO NZTA P33 - COLOURED SURFACING

NOTES:

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 - PART 1: SIGNS
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 - b. TRAFFIC CONTROL DEVICES MANUAL
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3. ALL KERBS ON TRAFFIC ISLANDS TO BE PAINTED WITH WHITE REFLECTORISED MARKINGS TO MEET STANDARD SPECIFIED IN WAKA KOTAHI NZTA P30 DOCUMENT.
4. RAISED PAVEMENT MARKERS NOT SHOWN, REFER TO MOTSAM FOR LOCATIONS AND REQUIREMENTS.

300 mm
200
100
50
0 10 mm



REVISION	AMENDMENT	APPROVED	DATE
A	FOR SAFETY AUDIT	ND	2021-07-09
B	DETAILED DESIGN ISSUED FOR CLIENT APPROVAL	RG	2021-08-30
C	DETAILED DESIGN ISSUED FOR TENDER	R.G.	2021-10-22



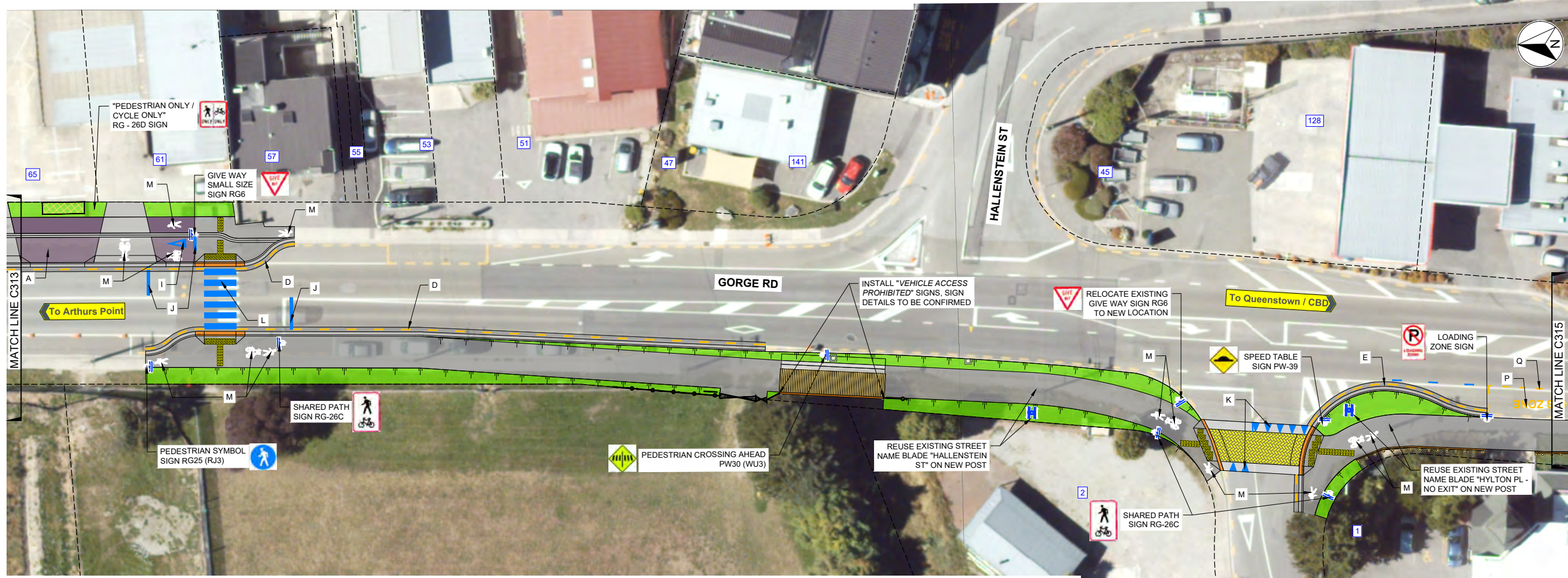
wsp
Queenstown Office
+64 3 451 0360
PO Box 2323
Queenstown 9300
New Zealand

CIVIL

SCALES	DESIGNED	APPROVED	ORIGINAL SIZE
1:250 @ A1	P.FIEREK	R.GILL	A1
DRAWN	DESIGN VERIFIED	APPROVED DATE	
S.GAUTAM	S.SHERLAW	2021-08-02	

FOR TENDER

PROJECT			
QUEENSTOWN LAKES DISTRICT COUNCIL WAKATIPU ACTIVE TRAVEL WATN STAGE 2 ROUTES - ROUTE C5			
TITLE			
ROAD MARKINGS AND SIGNAGES SHEET 14 OF 23			
WSP PROJECT NO.	PROJ-ORIG-VOL-LOC-TYPE	SHEET NO.	REVISION
6-QX141.00	6-QX141-WSP-01-C5-DR	C313	C



PLAN
SCALE 1:250(A1), 1:500(A3)

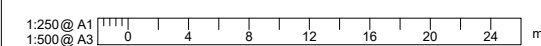
MARKINGS LEGEND

- A. 100 mm WIDE REFLECTORISED WHITE SOLID LINE
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- D. 100 mm WIDE REFLECTORISED YELLOW NO STOPPING LINE 1 m STRIPE, 2m GAP
- E. 100 mm WIDE REFLECTORISED YELLOW NO STOPPING LINE 1 m STRIPE, 1m GAP
- F. 1.68 m LONG REFLECTORISED WHITE CYCLE SYMBOL
- G. 600 mm WIDE REFLECTORISED WHITE BARS AT MAX 6 m SPACING, SLOPED 2:1 TO BORDER
- H. 6.8 m LONG REFLECTORISED WHITE, COMBINED RIGHT OR LEFT ARROW MARKING
- I. 4.0 m LONG REFLECTORISED WHITE, GIVEWAY TRIANGLE SYMBOL
- J. 300 mm WIDE REFLECTORISED SOLID WHITE LIMIT / HOLDING LINE
- K. HUMPS RAMP MARKING SYMBOL AS PER TCD MANUAL
- L. 600 X 600 PEDESTRIAN CROSSING AS PER TCD MANUAL
- M. PEDESTRIAN OR CYCLE SYMBOL AS PER TCD MANUAL
- N. ADVANCED WARNING DIAMOND, 100mm REFLECTORISED WHITE
- O. CYCLE SYMBOL AND ARROWS.
- P. 1.2m HIGH 'BUS STOP' AND 'LOADING ZONE' LETTERING
- Q. 100 mm WIDE REFLECTORISED YELLOW LINE 1 m STRIPE, 1m GAP (LOADING ZONES)
- R. 100 mm WIDE REFLECTORISED YELLOW LINE 1 m STRIPE, 2m GAP (LONG BUS STOPS)
- S. 100 mm WIDE REFLECTORISED YELLOW SOLID LINE
- T. 100 mm WIDE REFLECTORISED YELLOW SOLID NO-OVERTAKING LINE
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NOTES:

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300 mm
200
100
50
0 10 mm



REVISION	AMENDMENT	APPROVED	DATE
A	FOR SAFETY AUDIT	ND	2021-07-09
B	DETAILED DESIGN ISSUED FOR CLIENT APPROVAL	RG	2021-08-30
C	DETAILED DESIGN ISSUED FOR TENDER	R.G.	2021-10-22



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New Zealand

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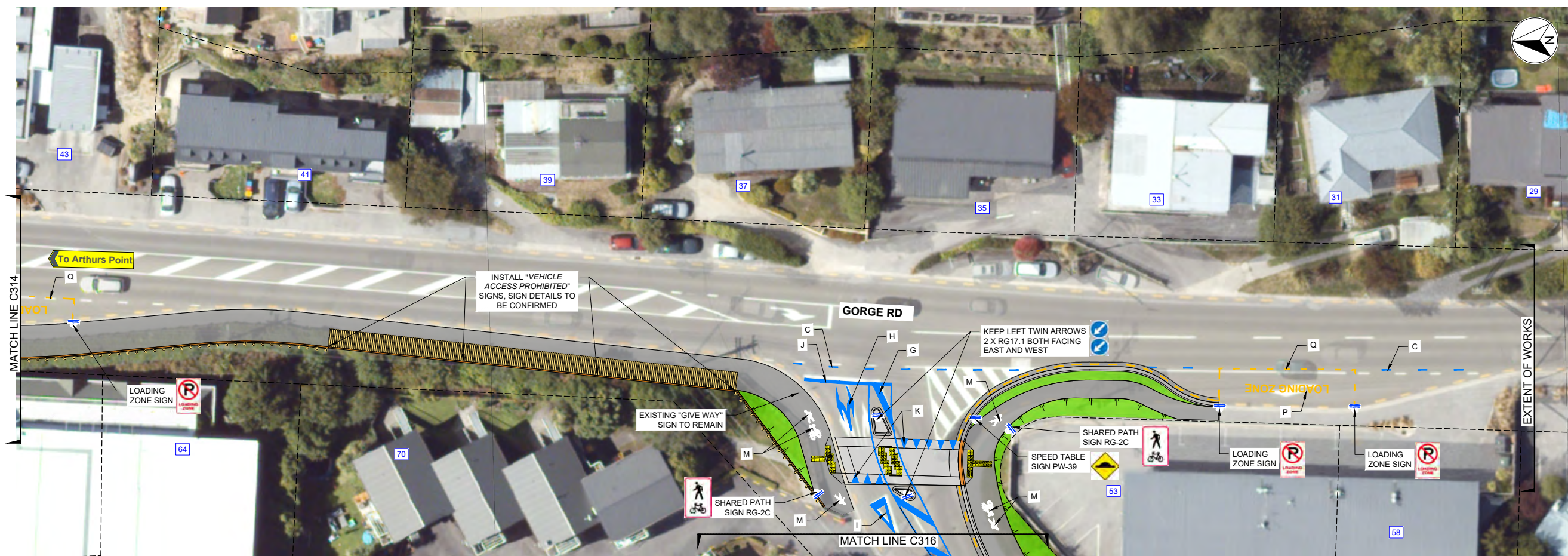
SCALES	DESIGNED	APPROVED	ORIGINAL SIZE
1:250 @ A1	P.FIEREK	R.GILL	A1
DRAWN	DESIGNED	APPROVED	
S.GAUTAM	P.FIEREK	R.GILL	
DRAWING VERIFIED	DESIGN VERIFIED	APPROVED DATE	
S.FORBES	S.SHERLAW	2021-08-02	

FOR TENDER

PROJECT			
QUEENSTOWN LAKES DISTRICT COUNCIL WAKATIPU ACTIVE TRAVEL WATN STAGE 2 ROUTES - ROUTE C5			
TITLE			
ROAD MARKINGS AND SIGNAGES SHEET 15 OF 23			
WSP PROJECT NO.	PROJ-ORIG-VOL-LOC-TYPE	SHEET NO.	REVISION
6-QX141.00	6-QX141-WSP-01-C5-DR	C314	C



300 mm
200
100
50
0 10 mm



PLAN
SCALE 1:250(A1), 1:500(A3)

MARKINGS LEGEND

- A. 100 mm WIDE REFLECTORISED WHITE SOLID LINE
- B. 100 mm WIDE REFLECTORISED WHITE CENTRELINE, 3m STRIPE, 7 m GAP
- C. 100 mm WIDE REFLECTORISED WHITE CONTINUITY LINE 1 m STRIPE, 3 m GAP
- D. 100 mm WIDE REFLECTORISED YELLOW NO STOPPING LINE 1 m STRIPE, 2m GAP
- E. 100 mm WIDE REFLECTORISED YELLOW NO STOPPING LINE 1 m STRIPE, 1m GAP
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- G. 600 mm WIDE REFLECTORISED WHITE BARS AT MAX 6 m SPACING, SLOPED 2:1 TO BORDER
- H. 6.8 m LONG REFLECTORISED WHITE, COMBINED RIGHT OR LEFT ARROW MARKING
- I. 4.0 m LONG REFLECTORISED WHITE, GIVEWAY TRIANGLE SYMBOL
- J. 300 mm WIDE REFLECTORISED SOLID WHITE LIMIT / HOLDING LINE
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1:250 @ A1
1:500 @ A3

REVISION	AMENDMENT	APPROVED	DATE
A	FOR SAFETY AUDIT	ND	2021-07-09
B	DETAILED DESIGN ISSUED FOR CLIENT APPROVAL	RG	2021-08-30
C	DETAILED DESIGN ISSUED FOR TENDER	R.G.	2021-10-22



wsp
Queenstown Office
+64 3 451 0360

PO Box 2323
Queenstown 9300
New Zealand

CIVIL

SCALES	DESIGNED	APPROVED	ORIGINAL SIZE
1:250 @ A1	P.FIEREK	R.GILL	A1
DRAWN	DESIGN VERIFIED	APPROVED DATE	
S.GAUTAM	S.SHERLAW	2021-08-02	
DRAWING VERIFIED	DESIGN VERIFIED	APPROVED DATE	
S.FORBES	S.SHERLAW	2021-08-02	

FOR TENDER

PROJECT		SHEET NO.	
QUEENSTOWN LAKES DISTRICT COUNCIL WAKATIPU ACTIVE TRAVEL WATN STAGE 2 ROUTES - ROUTE C5		C315	
TITLE		REVISION	
ROAD MARKINGS AND SIGNAGES SHEET 16 OF 23		C	
WSP PROJECT NO.	PROJ-ORIG-VOL-LOC-TYPE	SHEET NO.	REVISION
6-XQ141.00	6-XQ141-WSP-01-C5-DR	C315	C



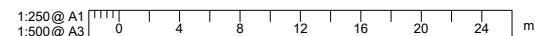
PLAN
SCALE 1:250(A1), 1:500(A3)

MARKINGS LEGEND

- A. 100 mm WIDE REFLECTORISED WHITE SOLID LINE
- B. 100 mm WIDE REFLECTORISED WHITE CENTRELINE, 3m STRIPE, 7 m GAP
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- G. 600 mm WIDE REFLECTORISED WHITE BARS AT MAX 6 m SPACING, SLOPED 2:1 TO BORDER
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REVISION	AMENDMENT	APPROVED	DATE
A	FOR SAFETY AUDIT	ND	2021-07-09
B	DETAILED DESIGN ISSUED FOR CLIENT APPROVAL	RG	2021-08-30
C	DETAILED DESIGN ISSUED FOR TENDER	R.G.	2021-10-22



PO Box 2323
Queenstown 9300
New Zealand

CIVIL

SCALES	DESIGNED	APPROVED
1:250 @ A1	P.FIEREK	R.GILL
1:500 @ A3		

FOR TENDER

PROJECT		SHEET NO.	
QUEENSTOWN LAKES DISTRICT COUNCIL WAKATIPU ACTIVE TRAVEL WATN STAGE 2 ROUTES - ROUTE C5		C316	
TITLE		REVISION	
ROAD MARKINGS AND SIGNAGES SHEET 17 OF 23		C	
WSP PROJECT NO.	PROJ-ORIG-VOL-LOC-TYPE	SHEET NO.	REVISION
6-XQ141.00	6-XQ141-WSP-01-C5-DR	C316	C



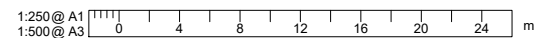
PLAN
SCALE 1:250(A1), 1:500(A3)

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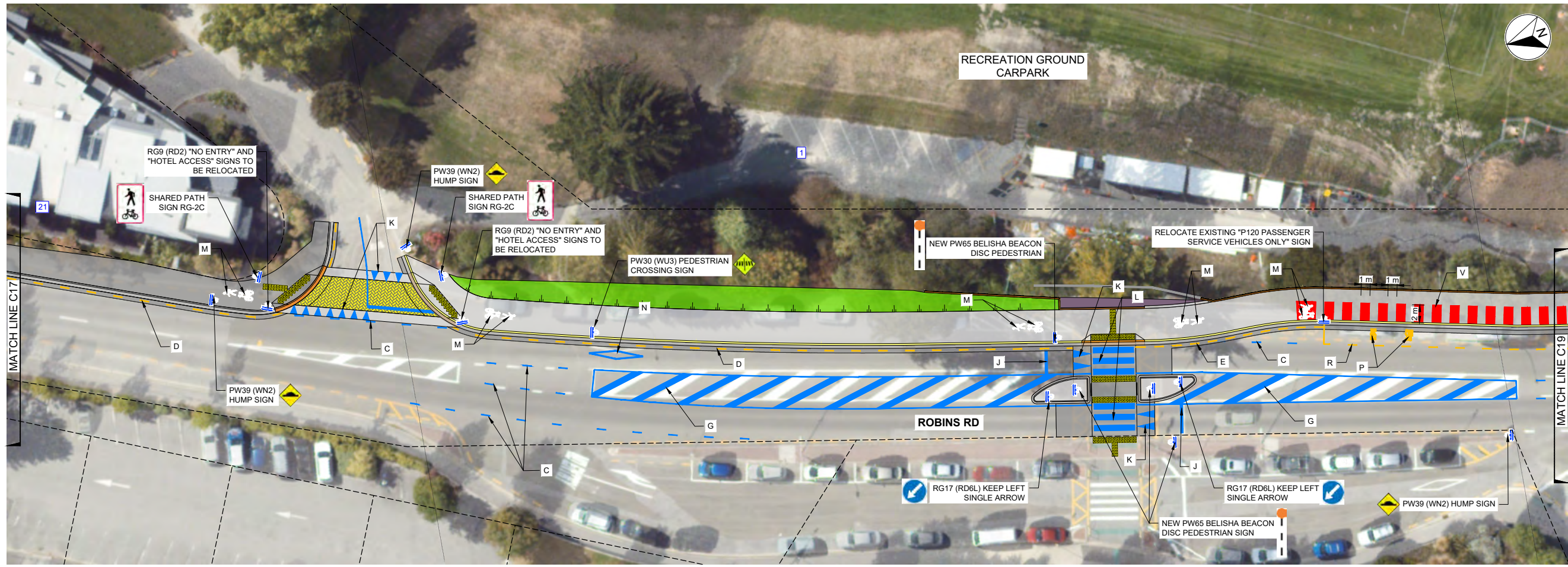
Queenstown Office
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CIVIL

SCALES	DESIGNED	APPROVED	ORIGINAL SIZE
1:250 @ A1	P.FIEREK	R.GILL	A1
DRAWN	DESIGNED	APPROVED	
S.GAUTAM	P.FIEREK	R.GILL	
DRAWING VERIFIED	DESIGN VERIFIED	APPROVED DATE	
S.FORBES	S.SHERLAW	2021-08-02	

FOR TENDER

PROJECT			
QUEENSTOWN LAKES DISTRICT COUNCIL			
WAKATIPU ACTIVE TRAVEL			
WATN STAGE 2 ROUTES - ROUTE C5			
TITLE			
ROAD MARKINGS AND SIGNAGES			
SHEET 18 OF 23			
WSP PROJECT NO.	PROJ-ORIG-VOL-LOC-TYPE	SHEET NO.	REVISION
6-XQ141.00	6-XQ141-WSP-01-C5-DR	C317	C



PLAN
SCALE 1:250(A1), 1:500(A3)

MARKINGS LEGEND

- A. 100 mm WIDE REFLECTORISED WHITE SOLID LINE
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Queenstown Office
+64 3 451 0360
PO Box 2323
Queenstown 9300
New Zealand

CIVIL

SCALES		ORIGINAL SIZE
1:250 @ A1		A1
1:500 @ A3		
DRAWN	DESIGNED	APPROVED
S.GAUTAM	P.FIEREK	R.GILL
DRAWING VERIFIED	DESIGN VERIFIED	APPROVED DATE
S.FORBES	S.SHERLAW	2021-08-02

FOR TENDER

PROJECT			
QUEENSTOWN LAKES DISTRICT COUNCIL WAKATIPU ACTIVE TRAVEL WATN STAGE 2 ROUTES - ROUTE C5			
TITLE			
ROAD MARKINGS AND SIGNAGES SHEET 19 OF 23			
WSP PROJECT NO.	PROJ-ORIG-VOL-LOC-TYPE	SHEET NO.	REVISION
6-XQ141.00	6-XQ141-WSP-01-C5-DR	C318	C



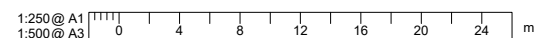
PLAN
SCALE 1:250(A1), 1:500(A3)

MARKINGS LEGEND

- A. 100 mm WIDE REFLECTORISED WHITE SOLID LINE
- B. 100 mm WIDE REFLECTORISED WHITE CENTRELINE, 3m STRIPE, 7 m GAP
- C. 100 mm WIDE REFLECTORISED WHITE CONTINUITY LINE 1 m STRIPE, 3 m GAP
- D. 100 mm WIDE REFLECTORISED YELLOW NO STOPPING LINE 1 m STRIPE, 2m GAP
- E. 100 mm WIDE REFLECTORISED YELLOW NO STOPPING LINE 1 m STRIPE, 1m GAP
- F. 1.68 m LONG REFLECTORISED WHITE CYCLE SYMBOL
- G. 600 mm WIDE REFLECTORISED WHITE BARS AT MAX 6 m SPACING, SLOPED 2:1 TO BORDER
- H. 6.8 m LONG REFLECTORISED WHITE, COMBINED RIGHT OR LEFT ARROW MARKING
- I. 4.0 m LONG REFLECTORISED WHITE, GIVEWAY TRIANGLE SYMBOL
- J. 300 mm WIDE REFLECTORISED SOLID WHITE LIMIT / HOLDING LINE
- K. HUMPH RAMP MARKING SYMBOL AS PER TCD MANUAL
- L. 600 X 600 PEDESTRIAN CROSSING AS PER TCD MANUAL
- M. PEDESTRIAN OR CYCLE SYMBOL AS PER TCD MANUAL
- N. ADVANCED WARNING DIAMOND, 100mm REFLECTORISED WHITE
- O. CYCLE SYMBOL AND ARROWS.
- P. 1.2m HIGH 'BUS STOP' AND 'LOADING ZONE' LETTERING
- Q. 100 mm WIDE REFLECTORISED YELLOW LINE 1 m STRIPE, 1m GAP (LOADING ZONES)
- R. 100 mm WIDE REFLECTORISED YELLOW LINE 1 m STRIPE, 2m GAP (LONG BUS STOPS)
- S. 100 mm WIDE REFLECTORISED YELLOW SOLID LINE
- T. 100 mm WIDE REFLECTORISED YELLOW SOLID NO-OVERTAKING LINE
- U. 100 mm WIDE REFLECTORISED YELLOW SOLID NO-OVERTAKING ADVANCED WARNING LINE
- V. RED COLOURED SHARED PATH SURFACING REFER TO NZTA P33 - COLOURED SURFACING

NOTES:

1. ALL SIGNS AND MARKINGS ARE TO COMPLY WITH WAKA KOTAHI NZ TRANSPORT AGENCY MANUALS
 - a. MANUAL OF TRAFFIC SIGNS AND MARKINGS.
 - PART 1: SIGNS
 - PART 2: MARKINGS
2. ALL REFLECTORISED MARKINGS TO MEET STANDARDS SPECIFIED IN WAKA KOTAHI NZTA P30 DOCUMENT.
3. ALL KERBS ON TRAFFIC ISLANDS TO BE PAINTED WITH WHITE REFLECTORISED MARKINGS TO MEET STANDARD SPECIFIED IN WAKA KOTAHI NZTA P30 DOCUMENT.
4. RAISED PAVEMENT MARKERS NOT SHOWN, REFER TO MOTSAM FOR LOCATIONS AND REQUIREMENTS.



REVISION	AMENDMENT	APPROVED	DATE
A	FOR SAFETY AUDIT	ND	2021-07-09
B	DETAILED DESIGN ISSUED FOR CLIENT APPROVAL	RG	2021-08-30
C	DETAILED DESIGN ISSUED FOR TENDER	R.G.	2021-10-22



PO Box 2323
Queenstown 9300
New Zealand

CIVIL

SCALES		ORIGINAL SIZE
1:250 @ A1		A1
DRAWN	DESIGNED	APPROVED
S.GAUTAM	P.FIEREK	R.GILL
DRAWING VERIFIED	DESIGN VERIFIED	APPROVED DATE
S.FORBES	S.SHERLAW	2021-08-02

FOR TENDER

PROJECT			
QUEENSTOWN LAKES DISTRICT COUNCIL WAKATIPU ACTIVE TRAVEL WATN STAGE 2 ROUTES - ROUTE C5			
TITLE			
ROAD MARKINGS AND SIGNAGES SHEET 20 OF 23			
WSP PROJECT NO.	PROJ-ORIG-VOL-LOC-TYPE	SHEET NO.	REVISION
6-QX141.00	6-QX141-WSP-01-C5-DR	C319	C



PLAN
SCALE 1:500(A1), 1:1000(A3)

MARKINGS LEGEND

- A. 100 mm WIDE REFLECTORISED WHITE SOLID LINE
- B. 100 mm WIDE REFLECTORISED WHITE CENTRELINE, 3m STRIPE, 7 m GAP
- C. 100 mm WIDE REFLECTORISED WHITE CONTINUITY LINE 1 m STRIPE, 3 m GAP
- D. 100 mm WIDE REFLECTORISED YELLOW NO STOPPING LINE 1 m STRIPE, 2m GAP
- E. 100 mm WIDE REFLECTORISED YELLOW NO STOPPING LINE 1 m STRIPE, 1m GAP
- F. 1.68 m LONG REFLECTORISED WHITE CYCLE SYMBOL
- G. 600 mm WIDE REFLECTORISED WHITE BARS AT MAX 6 m SPACING, SLOPED 2:1 TO BORDER
- H. 6.8 m LONG REFLECTORISED WHITE, COMBINED RIGHT OR LEFT ARROW MARKING
- I. 4.0 m LONG REFLECTORISED WHITE, GIVEWAY TRIANGLE SYMBOL
- J. 300 mm WIDE REFLECTORISED SOLID WHITE LIMIT / HOLDING LINE
- K. HUMP RAMP MARKING SYMBOL AS PER TCD MANUAL
- L. 600 X 600 PEDESTRIAN CROSSING AS PER TCD MANUAL
- M. PEDESTRIAN OR CYCLE SYMBOL AS PER TCD MANUAL
- N. ADVANCED WARNING DIAMOND, 100mm REFLECTORISED WHITE
- O. CYCLE SYMBOL AND ARROWS.
- P. 1.2m HIGH 'BUS STOP' AND 'LOADING ZONE' LETTERING
- Q. 100 mm WIDE REFLECTORISED YELLOW LINE 1 m STRIPE, 1m GAP (LOADING ZONES)
- R. 100 mm WIDE REFLECTORISED YELLOW LINE 1 m STRIPE, 2m GAP (LONG BUS STOPS)
- S. 100 mm WIDE REFLECTORISED YELLOW SOLID LINE
- T. 100 mm WIDE REFLECTORISED YELLOW SOLID NO-OVERTAKING LINE
- U. 100 mm WIDE REFLECTORISED YELLOW SOLID NO-OVERTAKING ADVANCED WARNING LINE
- V. RED COLOURED SHARED PATH SURFACING REFER TO NZTA P33 - COLOURED SURFACING

NOTES:

1. ALL SIGNS AND MARKINGS ARE TO COMPLY WITH WAKA KOTAHI NZ TRANSPORT AGENCY MANUALS
 - a. MANUAL OF TRAFFIC SIGNS AND MARKINGS.
 - PART 1: SIGNS
 - PART 2: MARKINGS
 - b. TRAFFIC CONTROL DEVICES MANUAL
2. ALL REFLECTORISED MARKINGS TO MEET STANDARDS SPECIFIED IN WAKA KOTAHI NZTA P30 DOCUMENT.
3. ALL KERBS ON TRAFFIC ISLANDS TO BE PAINTED WITH WHITE REFLECTORISED MARKINGS TO MEET STANDARD SPECIFIED IN WAKA KOTAHI NZTA P30 DOCUMENT.
4. RAISED PAVEMENT MARKERS NOT SHOWN, REFER TO MOTSAM FOR LOCATIONS AND REQUIREMENTS.

1:500 @ A1
1:1000 @ A3

REVISION	AMENDMENT	APPROVED	DATE
A	FOR SAFETY AUDIT	ND	2021-07-09
B	DETAILED DESIGN ISSUED FOR CLIENT APPROVAL	RG	2021-08-30
C	DETAILED DESIGN ISSUED FOR TENDER	R.G.	2021-10-22



Queenstown Office
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PO Box 2323
Queenstown 9300
New Zealand

CIVIL

SCALES	DESIGNED	APPROVED
1:500 @ A1	P.FIEREK	R.GILL
1:1000 @ A3	S.GAUTAM	S.SHERLAW

FOR TENDER

PROJECT		ORIGINAL SIZE	
QUEENSTOWN LAKES DISTRICT COUNCIL WAKATIPU ACTIVE TRAVEL WATN STAGE 2 ROUTES - ROUTE C5		A1	
TITLE ROAD MARKINGS AND SIGNAGES SHEET 21 OF 23			
WSP PROJECT NO. 6-XQ141.00	PROJ-ORIG-VOL-LOC-TYPE 6-XQ141-WSP-01-C5-DR	SHEET NO. C320	REVISION C



PLAN
SCALE 1:500(A1), 1:1000(A3)

MARKINGS LEGEND

- A. 100 mm WIDE REFLECTORISED WHITE SOLID LINE
- B. 100 mm WIDE REFLECTORISED WHITE CENTRELINE, 3m STRIPE, 7 m GAP
- C. 100 mm WIDE REFLECTORISED WHITE CONTINUITY LINE 1 m STRIPE, 3 m GAP
- D. 100 mm WIDE REFLECTORISED YELLOW NO STOPPING LINE 1 m STRIPE, 2m GAP
- E. 100 mm WIDE REFLECTORISED YELLOW NO STOPPING LINE 1 m STRIPE, 1m GAP
- F. 1.68 m LONG REFLECTORISED WHITE CYCLE SYMBOL
- G. 600 mm WIDE REFLECTORISED WHITE BARS AT MAX 6 m SPACING, SLOPED 2:1 TO BORDER
- H. 6.8 m LONG REFLECTORISED WHITE, COMBINED RIGHT OR LEFT ARROW MARKING
- I. 4.0 m LONG REFLECTORISED WHITE, GIVEWAY TRIANGLE SYMBOL
- J. 300 mm WIDE REFLECTORISED SOLID WHITE LIMIT / HOLDING LINE
- K. HUMP RAMP MARKING SYMBOL AS PER TCD MANUAL
- L. 600 X 600 PEDESTRIAN CROSSING AS PER TCD MANUAL
- M. PEDESTRIAN OR CYCLE SYMBOL AS PER TCD MANUAL
- N. ADVANCED WARNING DIAMOND, 100mm REFLECTORISED WHITE
- O. CYCLE SYMBOL AND ARROWS.
- P. 1.2m HIGH 'BUS STOP' AND 'LOADING ZONE' LETTERING
- Q. 100 mm WIDE REFLECTORISED YELLOW LINE 1 m STRIPE, 1m GAP (LOADING ZONES)
- R. 100 mm WIDE REFLECTORISED YELLOW LINE 1 m STRIPE, 2m GAP (LONG BUS STOPS)
- S. 100 mm WIDE REFLECTORISED YELLOW SOLID LINE
- T. 100 mm WIDE REFLECTORISED YELLOW SOLID NO-OVERTAKING LINE
- U. 100 mm WIDE REFLECTORISED YELLOW SOLID NO-OVERTAKING ADVANCED WARNING LINE
- V. RED COLOURED SHARED PATH SURFACING REFER TO NZTA P33 - COLOURED SURFACING

NOTES:

1. ALL SIGNS AND MARKINGS ARE TO COMPLY WITH WAKA KOTAHI NZ TRANSPORT AGENCY MANUALS
 - a. MANUAL OF TRAFFIC SIGNS AND MARKINGS.
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 - PART 2: MARKINGS
2. ALL REFLECTORISED MARKINGS TO MEET STANDARDS SPECIFIED IN WAKA KOTAHI NZTA P30 DOCUMENT.
3. ALL KERBS ON TRAFFIC ISLANDS TO BE PAINTED WITH WHITE REFLECTORISED MARKINGS TO MEET STANDARD SPECIFIED IN WAKA KOTAHI NZTA P30 DOCUMENT.
4. RAISED PAVEMENT MARKERS NOT SHOWN, REFER TO MOTSAM FOR LOCATIONS AND REQUIREMENTS.

1:500 @ A1
1:1000 @ A3

REVISION	AMENDMENT	APPROVED	DATE
A	FOR SAFETY AUDIT	ND	2021-07-09
B	DETAILED DESIGN ISSUED FOR CLIENT APPROVAL	RG	2021-08-30
C	DETAILED DESIGN ISSUED FOR TENDER	R.G.	2021-10-22



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CIVIL

SCALES		ORIGINAL SIZE
1:500 @ A1		A1
DRAWN	DESIGNED	APPROVED
S.GAUTAM	P.FIEREK	R.GILL
DRAWING VERIFIED	DESIGN VERIFIED	APPROVED DATE
S.FORBES	S.SHERLAW	2021-08-02

FOR TENDER

PROJECT			
QUEENSTOWN LAKES DISTRICT COUNCIL			
WAKATIPU ACTIVE TRAVEL			
WATN STAGE 2 ROUTES - ROUTE C5			
TITLE			
ROAD MARKINGS AND SIGNAGES			
SHEET 22 OF 23			
WSP PROJECT NO.	PROJ-ORIG-VOL-LOC-TYPE	SHEET NO.	REVISION
6-QX141.00	6-QX141-WSP-01-C5-DR	C321	C



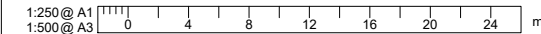
PLAN
SCALE 1:250(A1), 1:500(A3)

MARKINGS LEGEND

- A. 100 mm WIDE REFLECTORISED WHITE SOLID LINE
- B. 100 mm WIDE REFLECTORISED WHITE CENTRELINE, 3m STRIPE, 7 m GAP
- C. 100 mm WIDE REFLECTORISED WHITE CONTINUITY LINE 1 m STRIPE, 3 m GAP
- D. 100 mm WIDE REFLECTORISED YELLOW NO STOPPING LINE 1 m STRIPE, 2m GAP
- E. 100 mm WIDE REFLECTORISED YELLOW NO STOPPING LINE 1 m STRIPE, 1m GAP
- F. 1.68 m LONG REFLECTORISED WHITE CYCLE SYMBOL
- G. 600 mm WIDE REFLECTORISED WHITE BARS AT MAX 6 m SPACING, SLOPED 2:1 TO BORDER
- H. 6.8 m LONG REFLECTORISED WHITE, COMBINED RIGHT OR LEFT ARROW MARKING
- I. 4.0 m LONG REFLECTORISED WHITE, GIVEWAY TRIANGLE SYMBOL
- J. 300 mm WIDE REFLECTORISED SOLID WHITE LIMIT / HOLDING LINE
- K. HUMPS RAMP MARKING SYMBOL AS PER TCD MANUAL
- L. 600 X 600 PEDESTRIAN CROSSING AS PER TCD MANUAL
- M. PEDESTRIAN OR CYCLE SYMBOL AS PER TCD MANUAL
- N. ADVANCED WARNING DIAMOND, 100mm REFLECTORISED WHITE
- O. CYCLE SYMBOL AND ARROWS.
- P. 1.2m HIGH 'BUS STOP' AND 'LOADING ZONE' LETTERING
- Q. 100 mm WIDE REFLECTORISED YELLOW LINE 1 m STRIPE, 1m GAP (LOADING ZONES)
- R. 100 mm WIDE REFLECTORISED YELLOW LINE 1 m STRIPE, 2m GAP (LONG BUS STOPS)
- S. 100 mm WIDE REFLECTORISED YELLOW SOLID LINE
- T. 100 mm WIDE REFLECTORISED YELLOW SOLID NO-OVERTAKING LINE
- U. 100 mm WIDE REFLECTORISED YELLOW SOLID NO-OVERTAKING ADVANCED WARNING LINE
- V. RED COLOURED SHARED PATH SURFACING REFER TO NZTA P33 - COLOURED SURFACING

NOTES:

- ALL SIGNS AND MARKINGS ARE TO COMPLY WITH WAKA KOTAHI NZ TRANSPORT AGENCY MANUALS
 - a. MANUAL OF TRAFFIC SIGNS AND MARKINGS.
 - PART 1: SIGNS
 - PART 2: MARKINGS
- TRAFFIC CONTROL DEVICES MANUAL
- ALL REFLECTORISED MARKINGS TO MEET STANDARDS SPECIFIED IN WAKA KOTAHI NZTA P30 DOCUMENT.
- ALL KERBS ON TRAFFIC ISLANDS TO BE PAINTED WITH WHITE REFLECTORISED MARKINGS TO MEET STANDARD SPECIFIED IN WAKA KOTAHI NZTA P30 DOCUMENT.
- RAISED PAVEMENT MARKERS NOT SHOWN, REFER TO MOTSAM FOR LOCATIONS AND REQUIREMENTS.



REVISION	AMENDMENT	APPROVED	DATE
A	FOR SAFETY AUDIT	ND	2021-07-09
B	DETAILED DESIGN ISSUED FOR CLIENT APPROVAL	RG	2021-08-30
C	DETAILED DESIGN ISSUED FOR TENDER	R.G.	2021-10-22



wsp
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PO Box 2323
Queenstown 9300
New Zealand

CIVIL

SCALES	DESIGNED	APPROVED
1:250 @ A1	P.FIEREK	R.GILL
1:500 @ A3		

FOR TENDER

PROJECT		SHEET NO.	
QUEENSTOWN LAKES DISTRICT COUNCIL WAKATIPU ACTIVE TRAVEL WATN STAGE 2 ROUTES - ROUTE C5		C322	
TITLE		REVISION	
ROAD MARKINGS AND SIGNAGES SHEET 23 OF 23		C	
WSP PROJECT NO. 6-XQ141.00	PROJ-ORIG-VOL-LOC-TYPE 6-XQ141-WSP-01-C5-DR		



PLAN
SCALE 1:250(A1), 1:500(A3)

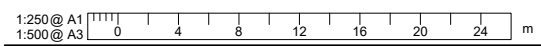
NOTE:
NO PROPOSED STORMWATER INVERT LEVELS SHOWN,
TO BE CONFIRMED ON SITE WITH THE ENGINEER.

EXISTING SERVICES		PROPOSED SERVICES	
---	LEGAL BOUNDARY	[1]	DOUBLE BACK-ENTRY SUMP AS PER QLDC STANDARD DETAIL B5-14
— SW —	STORMWATER PIPE	[2]	STANDARD SUMP AS PER QLDC STANDARD DETAIL B5-11
— S —	SANITARY SEWER PIPE	[3]	BERM SUMP AS PER QLDC STANDARD DETAIL B5-17
— W —	WATER PIPE	[4]	FLAT CHANNEL OR YARD SUMP AS PER QLDC STANDARD DETAIL B5-10
— PC —	UNDERGROUND POWER CABLE	[5]	STORMWATER MANHOLE WITH SCRUFFY DOME
— T —	CHORUS CABLES	[6]	225Ø PVC STORMWATER PIPE (UNLESS STATED OTHERWISE)
— OH —	OVERHEAD POWER CABLE	[Symbol]	BOLLARD FOR LIGHTING
— GAS —	RETICULATED GAS	[Symbol]	UNDERGROUND POWER AND TELECOM DUCTS
[Symbol]	TOBY	[Symbol]	POWER BOX
[Symbol]	VALVE	[Symbol]	TELECOM DOME
[Symbol]	WASTEWATER MANHOLE	[Symbol]	POWER POLE
[Symbol]	STORMWATER MANHOLE	[Symbol]	LIGHT POLE
[Symbol]	WATER MANHOLE	[Symbol]	TELECOM LID
[Symbol]	MUD TANK	[Symbol]	MAIL BOX
[Symbol]	FIRE HYDRANT	[Symbol]	RODDING EYE
[Symbol]	GULLY TRAP		

NOTES:

- PLANS TO BE READ IN CONJUNCTION WITH ALL DRAWINGS AND SPECIFICATIONS.
- EXISTING SERVICES SHOWN ARE INDICATIVE ONLY, CONTRACTOR TO LOCATE ALL SERVICES PRIOR TO COMMENCEMENT OF WORKS.
- CONTRACTOR SHALL CONFIRM DIMENSIONS AND SET-OUT PRIOR TO ORDERING MATERIAL OR CONSTRUCTION.
- ALL MATERIALS AND WORKMANSHIP SHALL BE IN ACCORDANCE WITH THE CURRENT CODES OF PRACTICE EXCEPT WHERE VARIED BY THE SPECIFICATION AND/OR DRAWINGS.
- WHERE PROPRIETARY PRODUCTS ARE SPECIFIED THE CONTRACTOR MAY SUBMIT AN ALTERNATIVE PRODUCT FOR APPROVAL ALL MATERIALS AND WORKMANSHIP SHALL BE IN ACCORDANCE WITH MANUFACTURER'S SPECIFICATION.
- ALL CONSTRUCTION WORKS TO BE IN ACCORDANCE WITH QUEENSTOWN LAKES DISTRICT COUNCIL'S LAND DEVELOPMENT AND SUBDIVISION CODE OF PRACTICE.
- POTHOLING TO COMMENCE PRIOR TO CONSTRUCTION TO CONFIRM INVERT LEVELS OF EXISTING SERVICES AND UTILITIES.
- ALL SUMPS WITHIN CYCLE LANES TO HAVE CYCLE FRIENDLY GRATES.

EXISTING SERVICES		PROPOSED SERVICES	
[Symbol]	INDICATIVE LOCATION OF AN EXISTING PIPE CULVERT (EXISTING DIAMETER VARIES FROM 100 mm TO 300 mm DIA AND EXISTING LENGTH VARIES FROM 2 TO 2.5 m) TO BE REPLACED WITH A 3.5 m LONG FARMBOSS PE PIPE WITH MINIMUM INTERNAL DIAMETER OF 250 mm BUT NO SMALLER THAN PIPE BEING REPLACED	[Symbol]	NEW PIPED CULVERT - 3.5 m LONG FARMBOSS PE OR EQUIVALENT WITH INTERNAL DIAMETER OF 250 mm TO IMPROVE DRAINAGE WHERE OBSERVED TO CURRENTLY OVERFLOW EXISTING PATH. LOCATIONS TO BE AGREED WITH ENGINEER ON SITE
[Symbol]	EXISTING PIPE CULVERT TO REMAIN		



REVISION	AMENDMENT	APPROVED	DATE
A	DETAILED DESIGN ISSUED FOR CLIENT REVIEW	R.G.	2021-08-02
B	DETAILED DESIGN ISSUED FOR CLIENT APPROVAL	R.G.	2021-08-30
C	DETAILED DESIGN ISSUED FOR TENDER	R.G.	2021-10-22



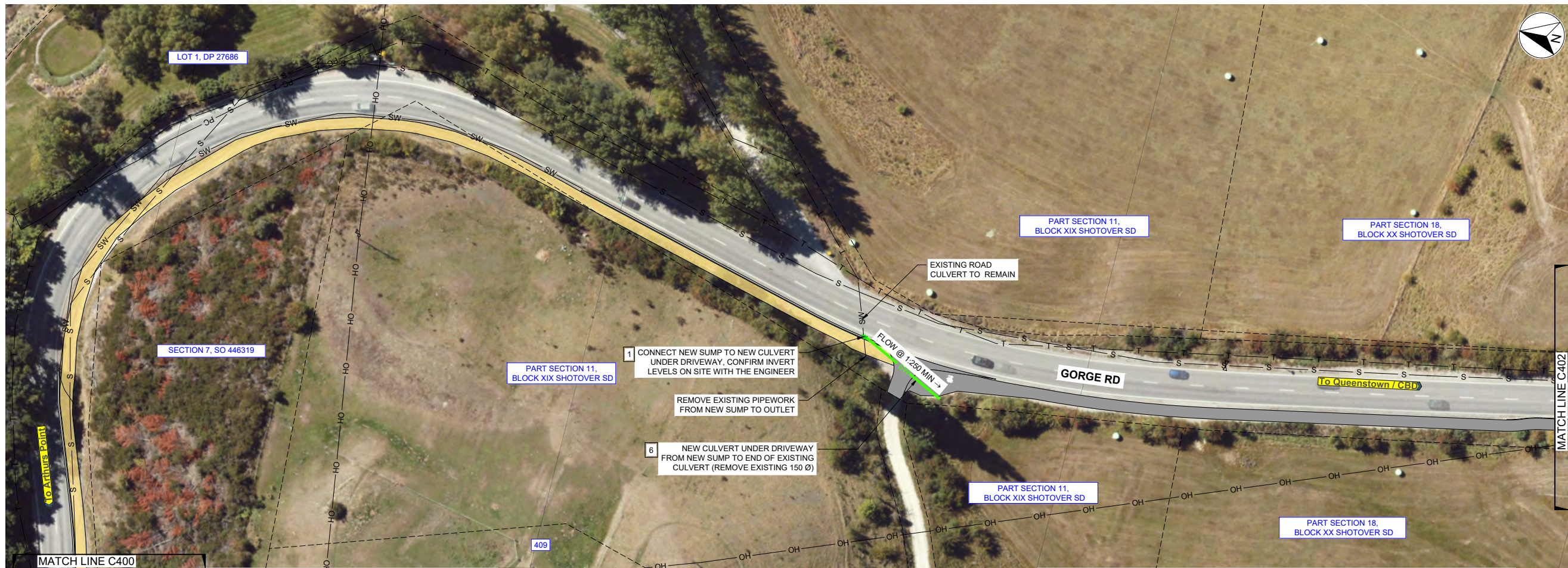
wsp
Queenstown Office
+64 3 451 0360
PO Box 2323
Queenstown 9300
New Zealand

CIVIL

SCALES	ORIGINAL SIZE	
1:250 @ A1	A1	
DRAWN	DESIGNED	APPROVED
P. FIEREK	P. FIEREK	R. GILL
DRAWING VERIFIED	DESIGN VERIFIED	APPROVED DATE
S. FORBES	S. SHERLAW	2021-08-02

FOR TENDER

PROJECT			
QUEENSTOWN LAKES DISTRICT COUNCIL			
WAKATIPU ACTIVE TRAVEL			
WATN STAGE 2 ROUTES - ROUTE C5			
TITLE			
PROPOSED SERVICES PLAN			
SHEET 1 OF 23			
WSP PROJECT NO.	PROJ-ORIG-VOL-LOC-TYPE	SHEET NO.	REVISION
6-QX141.00	6-QX141-WSP-01-C5-DR	C400	C



PLAN
SCALE 1:500(A1), 1:1000(A3)

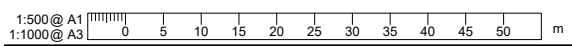
NOTE:
NO PROPOSED STORMWATER INVERT LEVELS SHOWN,
TO BE CONFIRMED ON SITE WITH THE ENGINEER.

EXISTING SERVICES		PROPOSED SERVICES	
---	LEGAL BOUNDARY	[E]	POWER BOX
— SW —	STORMWATER PIPE	[●]	TELECOM DOME
— S —	SANITARY SEWER PIPE	[PP]	POWER POLE
— W —	WATER PIPE	[LP]	LIGHT POLE
— PC —	UNDERGROUND POWER CABLE	[T]	TELECOM LID
— T —	CHORUS CABLES	[MB]	MAIL BOX
— OH —	OVERHEAD POWER CABLE	[RE]	RODDING EYE
— GAS —	RETICULATED GAS	[1]	DOUBLE BACK-ENTRY SUMP AS PER QLDC STANDARD DETAIL B5-14
[TOBY]	TOBY	[2]	STANDARD SUMP AS PER QLDC STANDARD DETAIL B5-11
[X]	VALVE	[3]	BERM SUMP AS PER QLDC STANDARD DETAIL B5-17
[SM]	WASTEWATER MANHOLE	[4]	FLAT CHANNEL OR YARD SUMP AS PER QLDC STANDARD DETAIL B5-10
[SWM]	STORMWATER MANHOLE	[5]	STORMWATER MANHOLE WITH SCRUFFY DOME
[WMH]	WATER MANHOLE	[6]	225Ø PVC STORMWATER PIPE (UNLESS STATED OTHERWISE)
[MT]	MUD TANK	[BOLLARD]	BOLLARD FOR LIGHTING
[FH]	FIRE HYDRANT	[PC]	UNDERGROUND POWER AND TELECOM DUCTS
[GT]	GULLY TRAP		

NOTES:

- PLANS TO BE READ IN CONJUNCTION WITH ALL DRAWINGS AND SPECIFICATIONS.
- EXISTING SERVICES SHOWN ARE INDICATIVE ONLY, CONTRACTOR TO LOCATE ALL SERVICES PRIOR TO COMMENCEMENT OF WORKS.
- CONTRACTOR SHALL CONFIRM DIMENSIONS AND SET-OUT PRIOR TO ORDERING MATERIAL OR CONSTRUCTION.
- ALL MATERIALS AND WORKMANSHIP SHALL BE IN ACCORDANCE WITH THE CURRENT CODES OF PRACTICE EXCEPT WHERE VARIED BY THE SPECIFICATION AND/OR DRAWINGS.
- WHERE PROPRIETARY PRODUCTS ARE SPECIFIED THE CONTRACTOR MAY SUBMIT AN ALTERNATIVE PRODUCT FOR APPROVAL ALL MATERIALS AND WORKMANSHIP SHALL BE IN ACCORDANCE WITH MANUFACTURER'S SPECIFICATION.
- ALL CONSTRUCTION WORKS TO BE IN ACCORDANCE WITH QUEENSTOWN LAKES DISTRICT COUNCIL'S LAND DEVELOPMENT AND SUBDIVISION CODE OF PRACTICE.
- POTHOLING TO COMMENCE PRIOR TO CONSTRUCTION TO CONFIRM INVERT LEVELS OF EXISTING SERVICES AND UTILITIES.
- ALL SUMPS WITHIN CYCLE LANES TO HAVE CYCLE FRIENDLY GRATES.

EXISTING SERVICES	PROPOSED SERVICES
[Blue line]	[Red line]
INDICATIVE LOCATION OF AN EXISTING PIPE CULVERT (EXISTING DIAMETER VARIES FROM 100 mm TO 300 mm DIA AND EXISTING LENGTH VARIES FROM 2 TO 2.5 m) TO BE REPLACED WITH A 3.5 m LONG FARMBOSS PE PIPE WITH MINIMUM INTERNAL DIAMETER OF 250 mm BUT NO SMALLER THAN PIPE BEING REPLACED	NEW PIPED CULVERT - 3.5 m LONG FARMBOSS PE OR EQUIVALENT WITH INTERNAL DIAMETER OF 250 mm TO IMPROVE DRAINAGE WHERE OBSERVED TO CURRENTLY OVERFLOW EXISTING PATH. LOCATIONS TO BE AGREED WITH ENGINEER ON SITE
[Yellow line]	
EXISTING PIPE CULVERT TO REMAIN	



REVISION	AMENDMENT	APPROVED	DATE
A	DETAILED DESIGN ISSUED FOR CLIENT REVIEW	R.G.	2021-08-02
B	DETAILED DESIGN ISSUED FOR CLIENT APPROVAL	R.G.	2021-08-30
C	DETAILED DESIGN ISSUED FOR TENDER	R.G.	2021-10-22



wsp
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Queenstown 9300
New Zealand

CIVIL

SCALES	DESIGNED	APPROVED	ORIGINAL SIZE
1:500 @ A1	P. FIEREK	R. GILL	A1
DRAWN	P. FIEREK	R. GILL	
P. FIEREK	P. FIEREK	R. GILL	
DRAWING VERIFIED	DESIGN VERIFIED	APPROVED DATE	
S.FORBES	S.SHERLAW	2021-08-02	

FOR TENDER

PROJECT			
QUEENSTOWN LAKES DISTRICT COUNCIL			
WAKATIPU ACTIVE TRAVEL			
WATN STAGE 2 ROUTES - ROUTE C5			
TITLE			
PROPOSED SERVICES PLAN			
SHEET 2 OF 23			
WSP PROJECT NO.	PROJ-ORIG-VOL-LOC-TYPE	SHEET NO.	REVISION
6-QX141.00	6-QX141-WSP-01-C5-DR	C401	C



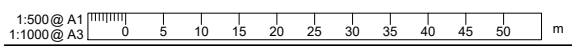
PLAN
SCALE 1:500(A1), 1:1000(A3)

EXISTING SERVICES		PROPOSED SERVICES	
---	LEGAL BOUNDARY	[E]	POWER BOX
— SW —	STORMWATER PIPE	[D]	TELECOM DOME
— S —	SANITARY SEWER PIPE	[PP]	POWER POLE
— W —	WATER PIPE	[LP]	LIGHT POLE
— PC —	UNDERGROUND POWER CABLE	[T]	TELECOM LID
— T —	CHORUS CABLES	[MB]	MAIL BOX
— OH —	OVERHEAD POWER CABLE	[RE]	RODDING EYE
— GAS —	RETICULATED GAS	[1]	DOUBLE BACK-ENTRY SUMP AS PER QLDC STANDARD DETAIL B5-14
[TOBY]	TOBY	[2]	STANDARD SUMP AS PER QLDC STANDARD DETAIL B5-11
[V]	VALVE	[3]	BERM SUMP AS PER QLDC STANDARD DETAIL B5-17
[SM]	WASTEWATER MANHOLE	[4]	FLAT CHANNEL OR YARD SUMP AS PER QLDC STANDARD DETAIL B5-10
[SM]	STORMWATER MANHOLE	[5]	STORMWATER MANHOLE WITH SCRUFFY DOME
[MH]	WATER MANHOLE	[6]	225Ø PVC STORMWATER PIPE (UNLESS STATED OTHERWISE)
[MT]	MUD TANK	[BOLLARD]	BOLLARD FOR LIGHTING
[FH]	FIRE HYDRANT	[PC]	UNDERGROUND POWER AND TELECOM DUCTS
[GT]	GULLY TRAP		

NOTES:

- PLANS TO BE READ IN CONJUNCTION WITH ALL DRAWINGS AND SPECIFICATIONS.
- EXISTING SERVICES SHOWN ARE INDICATIVE ONLY, CONTRACTOR TO LOCATE ALL SERVICES PRIOR TO COMMENCEMENT OF WORKS.
- CONTRACTOR SHALL CONFIRM DIMENSIONS AND SET-OUT PRIOR TO ORDERING MATERIAL OR CONSTRUCTION.
- ALL MATERIALS AND WORKMANSHIP SHALL BE IN ACCORDANCE WITH THE CURRENT CODES OF PRACTICE EXCEPT WHERE VARIED BY THE SPECIFICATION AND/OR DRAWINGS.
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- ALL CONSTRUCTION WORKS TO BE IN ACCORDANCE WITH QUEENSTOWN LAKES DISTRICT COUNCIL'S LAND DEVELOPMENT AND SUBDIVISION CODE OF PRACTICE.
- POTHOLING TO COMMENCE PRIOR TO CONSTRUCTION TO CONFIRM INVERT LEVELS OF EXISTING SERVICES AND UTILITIES.
- ALL SUMPS WITHIN CYCLE LANES TO HAVE CYCLE FRIENDLY GRATES.

EXISTING SERVICES		PROPOSED SERVICES	
[Blue Line]	INDICATIVE LOCATION OF AN EXISTING PIPE CULVERT (EXISTING DIAMETER VARIES FROM 100 mm TO 300 mm DIA AND EXISTING LENGTH VARIES FROM 2 TO 2.5 m) TO BE REPLACED WITH A 3.5 m LONG FARMBOSS PE PIPE WITH MINIMUM INTERNAL DIAMETER OF 250 mm BUT NO SMALLER THAN PIPE BEING REPLACED	[Red Line]	NEW PIPED CULVERT - 3.5 m LONG FARMBOSS PE OR EQUIVALENT WITH INTERNAL DIAMETER OF 250 mm TO IMPROVE DRAINAGE WHERE OBSERVED TO CURRENTLY OVERFLOW EXISTING PATH. LOCATIONS TO BE AGREED WITH ENGINEER ON SITE
[Yellow Line]	EXISTING PIPE CULVERT TO REMAIN		



REVISION	AMENDMENT	APPROVED	DATE
A	DETAILED DESIGN ISSUED FOR CLIENT REVIEW	R.G.	2021-08-02
B	DETAILED DESIGN ISSUED FOR CLIENT APPROVAL	R.G.	2021-08-30
C	DETAILED DESIGN ISSUED FOR TENDER	R.G.	2021-10-22



wsp
Queenstown Office
+64 3 451 0360
PO Box 2323
Queenstown 9300
New Zealand

CIVIL

SCALES	ORIGINAL SIZE
1:500 @ A1	A1
DRAWN	DESIGNED
P. FIEREK	P. FIEREK
	APPROVED
	R. GILL
DRAWING VERIFIED	DESIGN VERIFIED
S. FORBES	S. SHERLAW
	APPROVED DATE
	2021-08-02

FOR TENDER

PROJECT		SHEET NO.		REVISION	
QUEENSTOWN LAKES DISTRICT COUNCIL WAKATIPU ACTIVE TRAVEL WATN STAGE 2 ROUTES - ROUTE C5		C402		C	
TITLE					
PROPOSED SERVICES PLAN SHEET 3 OF 23					
WSP PROJECT NO.	PROJ-ORIG-VOL-LOC-TYPE	SHEET NO.	REVISION		
6-QX141.00	6-QX141-WSP-01-C5-DR	C402	C		

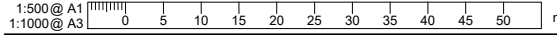


PLAN
SCALE 1:500(A1), 1:1000(A3)

EXISTING SERVICES		PROPOSED SERVICES	
---	LEGAL BOUNDARY	[E]	POWER BOX
— SW —	STORMWATER PIPE	[●]	TELECOM DOME
— S —	SANITARY SEWER PIPE	[PP]	POWER POLE
— W —	WATER PIPE	[LP]	LIGHT POLE
— PC —	UNDERGROUND POWER CABLE	[T]	TELECOM LID
— T —	CHORUS CABLES	[MB]	MAIL BOX
— OH —	OVERHEAD POWER CABLE	[RE]	RODDING EYE
— GAS —	RETICULATED GAS	[1]	DOUBLE BACK-ENTRY SUMP AS PER QLDC STANDARD DETAIL B5-14
[TOBY]	TOBY	[2]	STANDARD SUMP AS PER QLDC STANDARD DETAIL B5-11
[V]	VALVE	[3]	BERM SUMP AS PER QLDC STANDARD DETAIL B5-17
[SM]	WASTEWATER MANHOLE	[4]	FLAT CHANNEL OR YARD SUMP AS PER QLDC STANDARD DETAIL B5-10
[SMV]	STORMWATER MANHOLE	[5]	STORMWATER MANHOLE WITH SCRUFFY DOME
[M]	WATER MANHOLE	[6]	225Ø PVC STORMWATER PIPE (UNLESS STATED OTHERWISE)
[MT]	MUD TANK	[BOLLARD]	BOLLARD FOR LIGHTING
[FH]	FIRE HYDRANT	[PC]	UNDERGROUND POWER AND TELECOM DUCTS
[GT]	GULLY TRAP		

- NOTES:**
- PLANS TO BE READ IN CONJUNCTION WITH ALL DRAWINGS AND SPECIFICATIONS.
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 - ALL CONSTRUCTION WORKS TO BE IN ACCORDANCE WITH QUEENSTOWN LAKES DISTRICT COUNCIL'S LAND DEVELOPMENT AND SUBDIVISION CODE OF PRACTICE.
 - POTHOLING TO COMMENCE PRIOR TO CONSTRUCTION TO CONFIRM INVERT LEVELS OF EXISTING SERVICES AND UTILITIES.
 - ALL SUMPS WITHIN CYCLE LANES TO HAVE CYCLE FRIENDLY GRATES.

EXISTING SERVICES	PROPOSED SERVICES
[Blue line]	[Red line]
INDICATIVE LOCATION OF AN EXISTING PIPE CULVERT (EXISTING DIAMETER VARIES FROM 100 mm TO 300 mm DIA AND EXISTING LENGTH VARIES FROM 2 TO 2.5 m) TO BE REPLACED WITH A 3.5 m LONG FARMBOSS PE PIPE WITH MINIMUM INTERNAL DIAMETER OF 250 mm BUT NO SMALLER THAN PIPE BEING REPLACED	NEW PIPED CULVERT - 3.5 m LONG FARMBOSS PE OR EQUIVALENT WITH INTERNAL DIAMETER OF 250 mm TO IMPROVE DRAINAGE WHERE OBSERVED TO CURRENTLY OVERFLOW EXISTING PATH. LOCATIONS TO BE AGREED WITH ENGINEER ON SITE
[Yellow line]	
EXISTING PIPE CULVERT TO REMAIN	



REVISION	AMENDMENT	APPROVED	DATE
A	DETAILED DESIGN ISSUED FOR CLIENT REVIEW	R.G.	2021-08-02
B	DETAILED DESIGN ISSUED FOR CLIENT APPROVAL	R.G.	2021-08-30
C	DETAILED DESIGN ISSUED FOR TENDER	R.G.	2021-10-22



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PO Box 2323
Queenstown 9300
New Zealand

CIVIL

SCALES	ORIGINAL SIZE
1:500 @ A1	A1
1:1000 @ A3	
DRAWN	DESIGNED
P. FIEREK	P. FIEREK
	APPROVED
	R.GILL
DRAWING VERIFIED	DESIGN VERIFIED
S.FORBES	S.SHERLAW
	APPROVED DATE
	2021-08-02

FOR TENDER

PROJECT		SHEET NO.		REVISION	
QUEENSTOWN LAKES DISTRICT COUNCIL		C403		C	
WAKATIPU ACTIVE TRAVEL					
WATN STAGE 2 ROUTES - ROUTE C5					
TITLE					
PROPOSED SERVICES PLAN					
SHEET 4 OF 23					
WSP PROJECT NO.	PROJ-ORIG-VOL-LOC-TYPE	SHEET NO.	REVISION		
6-QX141.00	6-QX141-WSP-01-C5-DR	C403	C		



PLAN
SCALE 1:500(A1), 1:1000(A3)

KEY

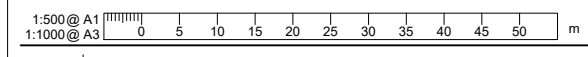
EXISTING SERVICES		PROPOSED SERVICES	
---	LEGAL BOUNDARY	TOBY	TOBY
— SW —	STORMWATER PIPE	⊗	VALVE
— S —	SANITARY SEWER PIPE	⊙	WASTEWATER MANHOLE
— W —	WATER PIPE	⊙	STORMWATER MANHOLE
— PC —	UNDERGROUND POWER CABLE	⊙	WATER MANHOLE
— T —	CHORUS CABLES	⊙	MUD TANK
— OH —	OVERHEAD POWER CABLE	⊙	FIRE HYDRANT
— GAS —	RETICULATED GAS	⊙	GULLY TRAP
		⊙	POWER BOX
		⊙	TELECOM DOME
		⊙	POWER POLE
		⊙	LIGHT POLE
		⊙	TELECOM LID
		⊙	MAIL BOX
		⊙	RODDING EYE
		1	DOUBLE BACK-ENTRY SUMP AS PER QLDC STANDARD DETAIL B5-14
		2	STANDARD SUMP AS PER QLDC STANDARD DETAIL B5-11
		3	BERM SUMP AS PER QLDC STANDARD DETAIL B5-17
		4	FLAT CHANNEL OR YARD SUMP AS PER QLDC STANDARD DETAIL B5-10
		5	STORMWATER MANHOLE WITH SCRUFFY DOME
		6	225Ø PVC STORMWATER PIPE (UNLESS STATED OTHERWISE)
			BOLLARD FOR LIGHTING
			UNDERGROUND POWER AND TELECOM DUCTS

NOTES:

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- ALL SUMPS WITHIN CYCLE LANES TO HAVE CYCLE FRIENDLY GRATES.

KEY

EXISTING SERVICES	PROPOSED SERVICES
—	INDICATIVE LOCATION OF AN EXISTING PIPE CULVERT (EXISTING DIAMETER VARIES FROM 100 mm TO 300 mm DIA AND EXISTING LENGTH VARIES FROM 2 TO 2.5 m) TO BE REPLACED WITH A 3.5 m LONG FARMBOSS PE PIPE WITH MINIMUM INTERNAL DIAMETER OF 250 mm BUT NO SMALLER THAN PIPE BEING REPLACED
—	EXISTING PIPE CULVERT TO REMAIN
	NEW PIPED CULVERT - 3.5 m LONG FARMBOSS PE OR EQUIVALENT WITH INTERNAL DIAMETER OF 250 mm TO IMPROVE DRAINAGE WHERE OBSERVED TO CURRENTLY OVERFLOW EXISTING PATH. LOCATIONS TO BE AGREED WITH ENGINEER ON SITE



REVISION	AMENDMENT	APPROVED	DATE
A	DETAILED DESIGN ISSUED FOR CLIENT REVIEW	R.G.	2021-08-02
B	DETAILED DESIGN ISSUED FOR CLIENT APPROVAL	R.G.	2021-08-30
C	DETAILED DESIGN ISSUED FOR TENDER	R.G.	2021-10-22



wsp
Queenstown Office
+64 3 451 0360
PO Box 2323
Queenstown 9300
New Zealand

CIVIL

SCALES	ORIGINAL SIZE
1:500 @ A1	A1
DRAWN	DESIGNED
P. FIEREK	P. FIEREK
	APPROVED
	R. GILL
DRAWING VERIFIED	DESIGN VERIFIED
S. FORBES	S. SHERLAW
	APPROVED DATE
	2021-08-02

FOR TENDER

PROJECT		SHEET NO.	
QUEENSTOWN LAKES DISTRICT COUNCIL WAKATIPU ACTIVE TRAVEL WATN STAGE 2 ROUTES - ROUTE C5		C404	
TITLE		REVISION	
PROPOSED SERVICES PLAN SHEET 5 OF 23		C	
WSP PROJECT NO.	PROJ-ORIG-VOL-LOC-TYPE	SHEET NO.	REVISION
6-QX141.00	6-QX141-WSP-01-C5-DR	C404	C



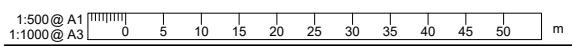
PLAN
SCALE 1:500(A1), 1:1000(A3)

EXISTING SERVICES		PROPOSED SERVICES	
---	LEGAL BOUNDARY	[E]	POWER BOX
— SW —	STORMWATER PIPE	[●]	TELECOM DOME
— S —	SANITARY SEWER PIPE	[PP]	POWER POLE
— W —	WATER PIPE	[LP]	LIGHT POLE
— PC —	UNDERGROUND POWER CABLE	[T]	TELECOM LID
— T —	CHORUS CABLES	[MB]	MAIL BOX
— OH —	OVERHEAD POWER CABLE	[RE]	RODDING EYE
— GAS —	RETICULATED GAS	[1]	DOUBLE BACK-ENTRY SUMP AS PER QLDC STANDARD DETAIL B5-14
[X]	TOBY	[2]	STANDARD SUMP AS PER QLDC STANDARD DETAIL B5-11
[V]	VALVE	[3]	BERM SUMP AS PER QLDC STANDARD DETAIL B5-17
[SM]	WASTEWATER MANHOLE	[4]	FLAT CHANNEL OR YARD SUMP AS PER QLDC STANDARD DETAIL B5-10
[SM]	STORMWATER MANHOLE	[5]	STORMWATER MANHOLE WITH SCRUFFY DOME
[MH]	WATER MANHOLE	[6]	225Ø PVC STORMWATER PIPE (UNLESS STATED OTHERWISE)
[MT]	MUD TANK	[PC]	UNDERGROUND POWER AND TELECOM DUCTS
[FH]	FIRE HYDRANT		
[GT]	GULLY TRAP		

NOTES:

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- ALL SUMPS WITHIN CYCLE LANES TO HAVE CYCLE FRIENDLY GRATES.

EXISTING SERVICES	PROPOSED SERVICES
[Blue line]	[Red line]
INDICATIVE LOCATION OF AN EXISTING PIPE CULVERT (EXISTING DIAMETER VARIES FROM 100 mm TO 300 mm DIA AND EXISTING LENGTH VARIES FROM 2 TO 2.5 m) TO BE REPLACED WITH A 3.5 m LONG FARMBOSS PE PIPE WITH MINIMUM INTERNAL DIAMETER OF 250 mm BUT NO SMALLER THAN PIPE BEING REPLACED	NEW PIPED CULVERT - 3.5 m LONG FARMBOSS PE OR EQUIVALENT WITH INTERNAL DIAMETER OF 250 mm TO IMPROVE DRAINAGE WHERE OBSERVED TO CURRENTLY OVERFLOW EXISTING PATH. LOCATIONS TO BE AGREED WITH ENGINEER ON SITE
[Yellow line]	
EXISTING PIPE CULVERT TO REMAIN	



REVISION	AMENDMENT	APPROVED	DATE
A	DETAILED DESIGN ISSUED FOR CLIENT REVIEW	R.G.	2021-08-02
B	DETAILED DESIGN ISSUED FOR CLIENT APPROVAL	R.G.	2021-08-30
C	DETAILED DESIGN ISSUED FOR TENDER	R.G.	2021-10-22



wsp
Queenstown Office
+64 3 451 0360
PO Box 2323
Queenstown 9300
New Zealand

CIVIL

SCALES	DESIGNED	APPROVED
1:500 @ A1	P. FIEREK	R. GILL
	P. FIEREK	R. GILL
DRAWING VERIFIED	DESIGN VERIFIED	APPROVED DATE
S.FORBES	S.SHERLAW	2021-08-02

FOR TENDER

PROJECT	TITLE	WSP PROJECT NO.	PROJ-ORIG-VOL-LOC-TYPE	SHEET NO.	REVISION
QUEENSTOWN LAKES DISTRICT COUNCIL WAKATIPU ACTIVE TRAVEL WATN STAGE 2 ROUTES - ROUTE C5	PROPOSED SERVICES PLAN SHEET 6 OF 23	6-QX141.00	6-QX141-WSP-01-C5-DR	C405	C



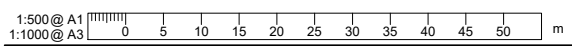
PLAN
SCALE 1:500(A1), 1:1000(A3)

EXISTING SERVICES		PROPOSED SERVICES	
---	LEGAL BOUNDARY	[E]	POWER BOX
— SW —	STORMWATER PIPE	[T]	TELECOM DOME
— S —	SANITARY SEWER PIPE	[PP]	POWER POLE
— W —	WATER PIPE	[LP]	LIGHT POLE
— PC —	UNDERGROUND POWER CABLE	[T]	TELECOM LID
— T —	CHORUS CABLES	[MB]	MAIL BOX
— OH —	OVERHEAD POWER CABLE	[RE]	RODDING EYE
— GAS —	RETICULATED GAS	[1]	DOUBLE BACK-ENTRY SUMP AS PER QLDC STANDARD DETAIL B5-14
[TOBY]	TOBY	[2]	STANDARD SUMP AS PER QLDC STANDARD DETAIL B5-11
[VALVE]	VALVE	[3]	BERM SUMP AS PER QLDC STANDARD DETAIL B5-17
[WWMH]	WASTEWATER MANHOLE	[4]	FLAT CHANNEL OR YARD SUMP AS PER QLDC STANDARD DETAIL B5-10
[STMH]	STORMWATER MANHOLE	[5]	STORMWATER MANHOLE WITH SCRUFFY DOME
[WMH]	WATER MANHOLE	[6]	225Ø PVC STORMWATER PIPE (UNLESS STATED OTHERWISE)
[MT]	MUD TANK	[BOLLARD]	BOLLARD FOR LIGHTING
[FH]	FIRE HYDRANT	[PC]	UNDERGROUND POWER AND TELECOM DUCTS
[GT]	GULLY TRAP		

NOTES:

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EXISTING SERVICES		PROPOSED SERVICES	
[Blue Line]	INDICATIVE LOCATION OF AN EXISTING PIPE CULVERT (EXISTING DIAMETER VARIES FROM 100 mm TO 300 mm DIA AND EXISTING LENGTH VARIES FROM 2 TO 2.5 m) TO BE REPLACED WITH A 3.5 m LONG FARMBOSS PE PIPE WITH MINIMUM INTERNAL DIAMETER OF 250 mm BUT NO SMALLER THAN PIPE BEING REPLACED	[Red Line]	NEW PIPED CULVERT - 3.5 m LONG FARMBOSS PE OR EQUIVALENT WITH INTERNAL DIAMETER OF 250 mm TO IMPROVE DRAINAGE WHERE OBSERVED TO CURRENTLY OVERFLOW EXISTING PATH. LOCATIONS TO BE AGREED WITH ENGINEER ON SITE
[Yellow Line]	EXISTING PIPE CULVERT TO REMAIN		



REVISION	AMENDMENT	APPROVED	DATE
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C	DETAILED DESIGN ISSUED FOR TENDER	R.G.	2021-10-22



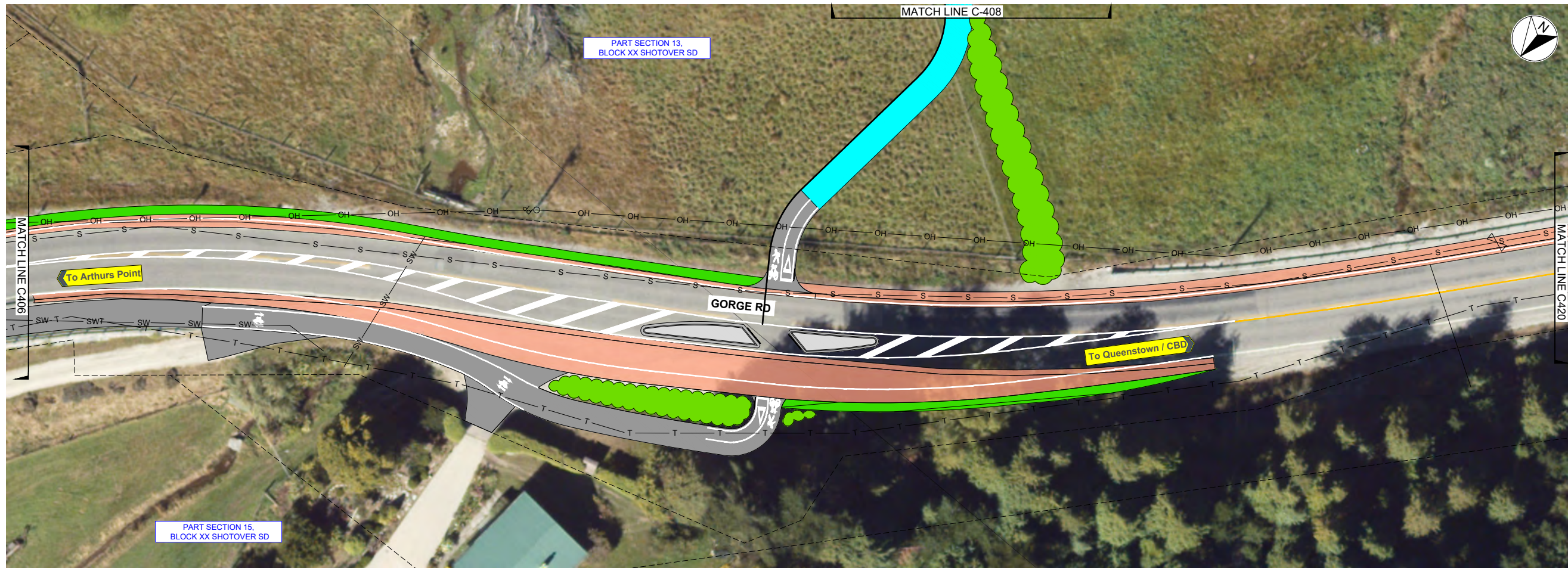
wsp
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PO Box 2323
Queenstown 9300
New Zealand

CIVIL

SCALES	ORIGINAL SIZE	
1:500 @ A1	A1	
DRAWN	DESIGNED	APPROVED
P. FIEREK	P. FIEREK	R. GILL
DRAWING VERIFIED	DESIGN VERIFIED	APPROVED DATE
S. FORBES	S. SHERLAW	2021-08-02

FOR TENDER

PROJECT		SHEET NO.	REVISION
QUEENSTOWN LAKES DISTRICT COUNCIL WAKATIPU ACTIVE TRAVEL WATN STAGE 2 ROUTES - ROUTE C5		C406	C
TITLE			
PROPOSED SERVICES PLAN SHEET 7 OF 23			
WSP PROJECT NO.	PROJ-ORIG-VOL-LOC-TYPE	SHEET NO.	REVISION
6-QX141.00	6-QX141-WSP-01-C5-DR	C406	C



PLAN
SCALE 1:250(A1), 1:500(A3)

KEY

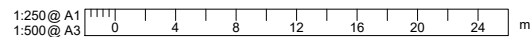
EXISTING SERVICES		PROPOSED SERVICES	
---	LEGAL BOUNDARY	TOBY	TOBY
— SW —	STORMWATER PIPE	⊗	VALVE
— S —	SANITARY SEWER PIPE	⊙	WASTEWATER MANHOLE
— W —	WATER PIPE	⊙	STORMWATER MANHOLE
— PC —	UNDERGROUND POWER CABLE	⊙	WATER MANHOLE
— T —	CHORUS CABLES	⊙	MUD TANK
— OH —	OVERHEAD POWER CABLE	⊙	FIRE HYDRANT
— GAS —	RETICULATED GAS	⊙	GULLY TRAP
⊙	POWER BOX	⊙	TELECOM DOME
⊙	TELECOM DOME	⊙	POWER POLE
⊙	POWER POLE	⊙	LIGHT POLE
⊙	LIGHT POLE	⊙	TELECOM LID
⊙	TELECOM LID	⊙	MAIL BOX
⊙	MAIL BOX	⊙	RODDING EYE
⊙	RODDING EYE	1	DOUBLE BACK-ENTRY SUMP AS PER QLDC STANDARD DETAIL B5-14
2	STANDARD SUMP AS PER QLDC STANDARD DETAIL B5-11	3	BERM SUMP AS PER QLDC STANDARD DETAIL B5-17
4	FLAT CHANNEL OR YARD SUMP AS PER QLDC STANDARD DETAIL B5-10	5	STORMWATER MANHOLE WITH SCRUFFY DOME
6	225Ø PVC STORMWATER PIPE (UNLESS STATED OTHERWISE)	6	BOLLARD FOR LIGHTING
PC	UNDERGROUND POWER AND TELECOM DUCTS		

NOTES:

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- POTHOLES TO COMMENCE PRIOR TO CONSTRUCTION TO CONFIRM INVERT LEVELS OF EXISTING SERVICES AND UTILITIES.
- ALL SUMPS WITHIN CYCLE LANES TO HAVE CYCLE FRIENDLY GRATES.

KEY

EXISTING SERVICES	PROPOSED SERVICES
—	INDICATIVE LOCATION OF AN EXISTING PIPE CULVERT (EXISTING DIAMETER VARIES FROM 100 mm TO 300 mm DIA AND EXISTING LENGTH VARIES FROM 2 TO 2.5 m) TO BE REPLACED WITH A 3.5 m LONG FARMBOSS PE PIPE WITH MINIMUM INTERNAL DIAMETER OF 250 mm BUT NO SMALLER THAN PIPE BEING REPLACED
—	EXISTING PIPE CULVERT TO REMAIN
—	NEW PIPED CULVERT - 3.5 m LONG FARMBOSS PE OR EQUIVALENT WITH INTERNAL DIAMETER OF 250 mm TO IMPROVE DRAINAGE WHERE OBSERVED TO CURRENTLY OVERFLOW EXISTING PATH. LOCATIONS TO BE AGREED WITH ENGINEER ON SITE



REVISION	AMENDMENT	APPROVED	DATE
A	DETAILED DESIGN ISSUED FOR CLIENT REVIEW	R.G.	2021-08-02
B	DETAILED DESIGN ISSUED FOR CLIENT APPROVAL	R.G.	2021-08-30
C	DETAILED DESIGN ISSUED FOR TENDER	R.G.	2021-10-22



wsp
Queenstown Office
+64 3 451 0360
PO Box 2323
Queenstown 9300
New Zealand

CIVIL

SCALES	ORIGINAL SIZE	
1:250 @ A1	A1	
1:500 @ A3		
DRAWN	DESIGNED	APPROVED
P. FIEREK	P. FIEREK	R. GILL
DRAWING VERIFIED	DESIGN VERIFIED	APPROVED DATE
S. FORBES	S. SHERLAW	2021-08-02

FOR TENDER

PROJECT	
QUEENSTOWN LAKES DISTRICT COUNCIL WAKATIPU ACTIVE TRAVEL WATN STAGE 2 ROUTES - ROUTE C5	
TITLE	
PROPOSED SERVICES PLAN SHEET 8 OF 23	
WSP PROJECT NO.	PROJ-ORIG-VOL-LOC-TYPE
6-QX141.00	6-QX141-WSP-01-C5-DR
SHEET NO.	REVISION
C407	C



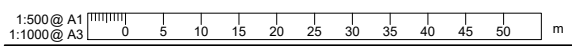
PLAN
SCALE 1:500(A1), 1:1000(A3)

EXISTING SERVICES		PROPOSED SERVICES	
---	LEGAL BOUNDARY	TOBY	TOBY
— SW —	STORMWATER PIPE	⊗	VALVE
— S —	SANITARY SEWER PIPE	⊙	WASTEWATER MANHOLE
— W —	WATER PIPE	⊙	STORMWATER MANHOLE
— PC —	UNDERGROUND POWER CABLE	⊙	WATER MANHOLE
— T —	CHORUS CABLES	⊙	MUD TANK
— OH —	OVERHEAD POWER CABLE	⊙	FIRE HYDRANT
— GAS —	RETICULATED GAS	⊙	GULLY TRAP
⊙	POWER BOX	⊙	TELECOM DOME
⊙	TELECOM DOME	⊙	POWER POLE
⊙	POWER POLE	⊙	LIGHT POLE
⊙	LIGHT POLE	⊙	TELECOM LID
⊙	TELECOM LID	⊙	MAIL BOX
⊙	MAIL BOX	⊙	RODDING EYE
⊙	RODDING EYE	1	DOUBLE BACK-ENTRY SUMP AS PER QLDC STANDARD DETAIL B5-14
2	STANDARD SUMP AS PER QLDC STANDARD DETAIL B5-11	3	BERM SUMP AS PER QLDC STANDARD DETAIL B5-17
4	FLAT CHANNEL OR YARD SUMP AS PER QLDC STANDARD DETAIL B5-10	5	STORMWATER MANHOLE WITH SCRUFFY DOME
6	225Ø PVC STORMWATER PIPE (UNLESS STATED OTHERWISE)		BOLLARD FOR LIGHTING
	PC		UNDERGROUND POWER AND TELECOM DUCTS

NOTES:

- PLANS TO BE READ IN CONJUNCTION WITH ALL DRAWINGS AND SPECIFICATIONS.
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- ALL SUMPS WITHIN CYCLE LANES TO HAVE CYCLE FRIENDLY GRATES.

EXISTING SERVICES		PROPOSED SERVICES	
—	INDICATIVE LOCATION OF AN EXISTING PIPE CULVERT (EXISTING DIAMETER VARIES FROM 100 mm TO 300 mm DIA AND EXISTING LENGTH VARIES FROM 2 TO 2.5 m) TO BE REPLACED WITH A 3.5 m LONG FARMBOSS PE PIPE WITH MINIMUM INTERNAL DIAMETER OF 250 mm BUT NO SMALLER THAN PIPE BEING REPLACED	—	NEW PIPED CULVERT - 3.5 m LONG FARMBOSS PE OR EQUIVALENT WITH INTERNAL DIAMETER OF 250 mm TO IMPROVE DRAINAGE WHERE OBSERVED TO CURRENTLY OVERFLOW EXISTING PATH. LOCATIONS TO BE AGREED WITH ENGINEER ON SITE
—	EXISTING PIPE CULVERT TO REMAIN		



REVISION	AMENDMENT	APPROVED	DATE
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C	DETAILED DESIGN ISSUED FOR TENDER	R.G.	2021-10-22



wsp
Queenstown Office
+64 3 451 0360
PO Box 2323
Queenstown 9300
New Zealand

CIVIL

SCALES	ORIGINAL SIZE	
1:500 @ A1	A1	
DRAWN	DESIGNED	APPROVED
P. FIEREK	P. FIEREK	R. GILL
DRAWING VERIFIED	DESIGN VERIFIED	APPROVED DATE
S. FORBES	S. SHERLAW	2021-08-02

FOR TENDER

PROJECT		SHEET NO.	REVISION
QUEENSTOWN LAKES DISTRICT COUNCIL WAKATIPU ACTIVE TRAVEL WATN STAGE 2 ROUTES - ROUTE C5		C408	C
TITLE			
PROPOSED SERVICES PLAN SHEET 9 OF 23			
WSP PROJECT NO.	PROJ-ORIG-VOL-LOC-TYPE		
6-QX141.00	6-QX141-WSP-01-C5-DR		



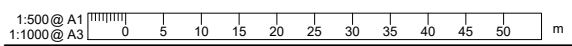
PLAN
SCALE 1:500(A1), 1:1000(A3)

EXISTING SERVICES		PROPOSED SERVICES	
---	LEGAL BOUNDARY	[E]	POWER BOX
— SW —	STORMWATER PIPE	●	TELECOM DOME
— S —	SANITARY SEWER PIPE	○ PP	POWER POLE
— W —	WATER PIPE	○ LP	LIGHT POLE
— PC —	UNDERGROUND POWER CABLE	[T]	TELECOM LID
— T —	CHORUS CABLES	[M]	MAIL BOX
— OH —	OVERHEAD POWER CABLE	[R]	RODDING EYE
— GAS —	RETICULATED GAS	[Mh]	WATER MANHOLE
[X]	TOBY	[M]	MUD TANK
[V]	VALVE	[PH]	FIRE HYDRANT
[SM]	WASTEWATER MANHOLE	[GT]	GULLY TRAP
[SM]	STORMWATER MANHOLE	[1]	DOUBLE BACK-ENTRY SUMP AS PER QLDC STANDARD DETAIL B5-14
[Mh]	WATER MANHOLE	[2]	STANDARD SUMP AS PER QLDC STANDARD DETAIL B5-11
[Mh]	WATER MANHOLE	[3]	BERM SUMP AS PER QLDC STANDARD DETAIL B5-17
[Mh]	WATER MANHOLE	[4]	FLAT CHANNEL OR YARD SUMP AS PER QLDC STANDARD DETAIL B5-10
[Mh]	WATER MANHOLE	[5]	STORMWATER MANHOLE WITH SCRUFFY DOME
[Mh]	WATER MANHOLE	[6]	225Ø PVC STORMWATER PIPE (UNLESS STATED OTHERWISE)
[Mh]	WATER MANHOLE	[B]	BOLLARD FOR LIGHTING
[Mh]	WATER MANHOLE	[PC]	UNDERGROUND POWER AND TELECOM DUCTS

NOTES:

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EXISTING SERVICES		PROPOSED SERVICES	
[Blue line]	INDICATIVE LOCATION OF AN EXISTING PIPE CULVERT (EXISTING DIAMETER VARIES FROM 100 mm TO 300 mm DIA AND EXISTING LENGTH VARIES FROM 2 TO 2.5 m) TO BE REPLACED WITH A 3.5 m LONG FARMBOSS PE PIPE WITH MINIMUM INTERNAL DIAMETER OF 250 mm BUT NO SMALLER THAN PIPE BEING REPLACED	[Red line]	NEW PIPED CULVERT - 3.5 m LONG FARMBOSS PE OR EQUIVALENT WITH INTERNAL DIAMETER OF 250 mm TO IMPROVE DRAINAGE WHERE OBSERVED TO CURRENTLY OVERFLOW EXISTING PATH. LOCATIONS TO BE AGREED WITH ENGINEER ON SITE
[Yellow line]	EXISTING PIPE CULVERT TO REMAIN		



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C	DETAILED DESIGN ISSUED FOR TENDER	R.G.	2021-10-22



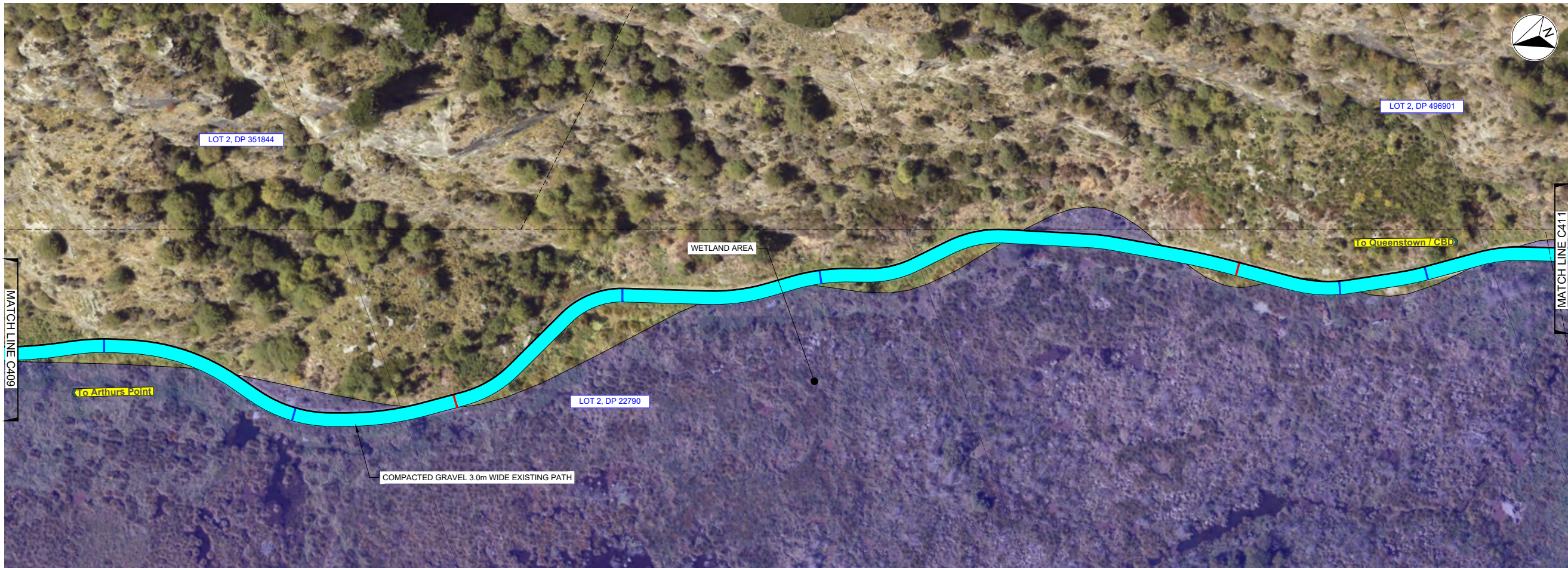
wsp
Queenstown Office
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PO Box 2323
Queenstown 9300
New Zealand

CIVIL

SCALES		ORIGINAL SIZE
1:500 @ A1		A1
DRAWN	DESIGNED	APPROVED
P. FIEREK	P. FIEREK	R. GILL
DRAWING VERIFIED	DESIGN VERIFIED	APPROVED DATE
S. FORBES	S. SHERLAW	2021-08-02

FOR TENDER

PROJECT			
QUEENSTOWN LAKES DISTRICT COUNCIL			
WAKATIPU ACTIVE TRAVEL			
WATN STAGE 2 ROUTES - ROUTE C5			
TITLE			
PROPOSED SERVICES PLAN			
SHEET 10 OF 23			
WSP PROJECT NO.	PROJ-ORIG-VOL-LOC-TYPE	SHEET NO.	REVISION
6-QX141.00	6-QX141-WSP-01-C5-DR	C409	C



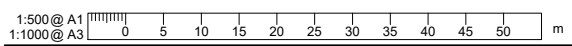
PLAN
SCALE 1:500(A1), 1:1000(A3)

EXISTING SERVICES		PROPOSED SERVICES	
---	LEGAL BOUNDARY	TOBY	TOBY
— SW —	STORMWATER PIPE	⊗	VALVE
— S —	SANITARY SEWER PIPE	⊗	WASTEWATER MANHOLE
— W —	WATER PIPE	⊗	STORMWATER MANHOLE
— PC —	UNDERGROUND POWER CABLE	⊗	WATER MANHOLE
— T —	CHORUS CABLES	⊗	MUD TANK
— OH —	OVERHEAD POWER CABLE	⊗	FIRE HYDRANT
— GAS —	RETICULATED GAS	⊗	GULLY TRAP
⊗	POWER BOX	⊗	TELECOM DOME
⊗	TELECOM DOME	⊗	POWER POLE
⊗	POWER POLE	⊗	LIGHT POLE
⊗	LIGHT POLE	⊗	TELECOM LID
⊗	TELECOM LID	⊗	MAIL BOX
⊗	MAIL BOX	⊗	RODDING EYE
⊗	RODDING EYE	1	DOUBLE BACK-ENTRY SUMP AS PER QLDC STANDARD DETAIL B5-14
		2	STANDARD SUMP AS PER QLDC STANDARD DETAIL B5-11
		3	BERM SUMP AS PER QLDC STANDARD DETAIL B5-17
		4	FLAT CHANNEL OR YARD SUMP AS PER QLDC STANDARD DETAIL B5-10
		5	STORMWATER MANHOLE WITH SCRUFFY DOME
		6	225Ø PVC STORMWATER PIPE (UNLESS STATED OTHERWISE)
			BOLLARD FOR LIGHTING
			UNDERGROUND POWER AND TELECOM DUCTS

NOTES:

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EXISTING SERVICES		PROPOSED SERVICES	
—	INDICATIVE LOCATION OF AN EXISTING PIPE CULVERT (EXISTING DIAMETER VARIES FROM 100 mm TO 300 mm DIA AND EXISTING LENGTH VARIES FROM 2 TO 2.5 m) TO BE REPLACED WITH A 3.5 m LONG FARMBOSS PE PIPE WITH MINIMUM INTERNAL DIAMETER OF 250 mm BUT NO SMALLER THAN PIPE BEING REPLACED	—	NEW PIPED CULVERT - 3.5 m LONG FARMBOSS PE OR EQUIVALENT WITH INTERNAL DIAMETER OF 250 mm TO IMPROVE DRAINAGE WHERE OBSERVED TO CURRENTLY OVERFLOW EXISTING PATH. LOCATIONS TO BE AGREED WITH ENGINEER ON SITE
—	EXISTING PIPE CULVERT TO REMAIN		



REVISION	AMENDMENT	APPROVED	DATE
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C	DETAILED DESIGN ISSUED FOR TENDER	R.G.	2021-10-22



wsp
Queenstown Office
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PO Box 2323
Queenstown 9300
New Zealand

CIVIL

SCALES	ORIGINAL SIZE	
1:500 @ A1	A1	
DRAWN	DESIGNED	APPROVED
P. FIEREK	P. FIEREK	R. GILL
DRAWING VERIFIED	DESIGN VERIFIED	APPROVED DATE
S. FORBES	S. SHERLAW	2021-08-02

FOR TENDER

PROJECT		SHEET NO.	REVISION
QUEENSTOWN LAKES DISTRICT COUNCIL WAKATIPU ACTIVE TRAVEL WATN STAGE 2 ROUTES - ROUTE C5		C410	C
TITLE			
PROPOSED SERVICES PLAN SHEET 11 OF 23			
WSP PROJECT NO.	PROJ-ORIG-VOL-LOC-TYPE		
6-QX141.00	6-QX141-WSP-01-C5-DR		



PLAN
SCALE 1:500(A1), 1:1000(A3)

KEY

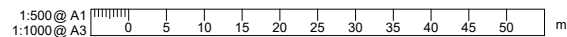
EXISTING SERVICES		PROPOSED SERVICES	
---	LEGAL BOUNDARY	TOBY	TOBY
— SW —	STORMWATER PIPE	⊗	VALVE
— S —	SANITARY SEWER PIPE	⊙	WASTEWATER MANHOLE
— W —	WATER PIPE	⊙	STORMWATER MANHOLE
— PC —	UNDERGROUND POWER CABLE	⊙	WATER MANHOLE
— T —	CHORUS CABLES	⊙	MUD TANK
— OH —	OVERHEAD POWER CABLE	⊙	FIRE HYDRANT
— GAS —	RETICULATED GAS	⊙	GULLY TRAP
⊙	POWER BOX	⊙	TELECOM DOME
⊙	TELECOM DOME	⊙	POWER POLE
⊙	POWER POLE	⊙	LIGHT POLE
⊙	LIGHT POLE	⊙	TELECOM LID
⊙	TELECOM LID	⊙	MAIL BOX
⊙	MAIL BOX	⊙	RODDING EYE
⊙	RODDING EYE	1	DOUBLE BACK-ENTRY SUMP AS PER QLDC STANDARD DETAIL B5-14
2	STANDARD SUMP AS PER QLDC STANDARD DETAIL B5-11	3	BERM SUMP AS PER QLDC STANDARD DETAIL B5-17
4	FLAT CHANNEL OR YARD SUMP AS PER QLDC STANDARD DETAIL B5-10	5	STORMWATER MANHOLE WITH SCRUFFY DOME
6	225Ø PVC STORMWATER PIPE (UNLESS STATED OTHERWISE)		BOLLARD FOR LIGHTING
	UNDERGROUND POWER AND TELECOM DUCTS		

NOTES:

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KEY

EXISTING SERVICES	PROPOSED SERVICES
—	INDICATIVE LOCATION OF AN EXISTING PIPE CULVERT (EXISTING DIAMETER VARIES FROM 100 mm TO 300 mm DIA AND EXISTING LENGTH VARIES FROM 2 TO 2.5 m) TO BE REPLACED WITH A 3.5 m LONG FARMBOSS PE PIPE WITH MINIMUM INTERNAL DIAMETER OF 250 mm BUT NO SMALLER THAN PIPE BEING REPLACED
—	EXISTING PIPE CULVERT TO REMAIN
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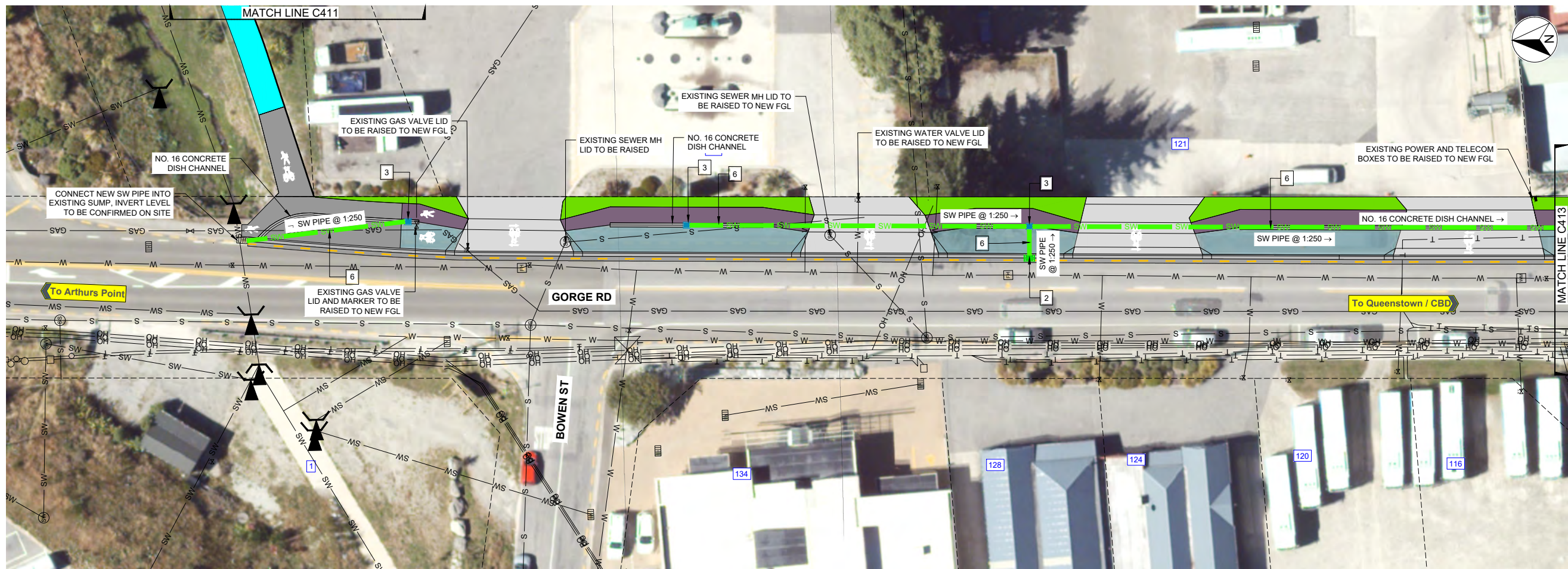
Queenstown Office
+64 3 451 0360
PO Box 2323
Queenstown 9300
New Zealand

CIVIL

SCALES	ORIGINAL SIZE
1:500 @ A1	A1
DRAWN	DESIGNED
P. FIEREK	P. FIEREK
APPROVED	R. GILL
DRAWING VERIFIED	DESIGN VERIFIED
S.FORBES	S.SHERLAW
APPROVED DATE	2021-08-02

FOR TENDER

PROJECT	
QUEENSTOWN LAKES DISTRICT COUNCIL WAKATIPU ACTIVE TRAVEL WATN STAGE 2 ROUTES - ROUTE C5	
TITLE	
PROPOSED SERVICES PLAN SHEET 12 OF 23	
WSP PROJECT NO.	PROJ-ORIG-VOL-LOC-TYPE
6-QX141.00	6-QX141-WSP-01-C5-DR
SHEET NO.	REVISION
C411	C



PLAN
SCALE 1:250(A1), 1:500(A3)

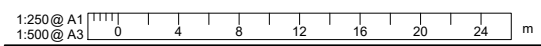
NOTE:
NO PROPOSED STORMWATER INVERT LEVELS SHOWN,
TO BE CONFIRMED ON SITE WITH THE ENGINEER.

EXISTING SERVICES		PROPOSED SERVICES	
---	LEGAL BOUNDARY	1	DOUBLE BACK-ENTRY SUMP AS PER QLDC STANDARD DETAIL B5-14
— SW —	STORMWATER PIPE	2	STANDARD SUMP AS PER QLDC STANDARD DETAIL B5-11
— S —	SANITARY SEWER PIPE	3	BERM SUMP AS PER QLDC STANDARD DETAIL B5-17
— W —	WATER PIPE	4	FLAT CHANNEL OR YARD SUMP AS PER QLDC STANDARD DETAIL B5-10
— PC —	UNDERGROUND POWER CABLE	5	STORMWATER MANHOLE WITH SCRUFFY DOME
— T —	CHORUS CABLES	6	2250 PVC STORMWATER PIPE (UNLESS STATED OTHERWISE)
— OH —	OVERHEAD POWER CABLE		BOLLARD FOR LIGHTING
— GAS —	RETICULATED GAS		UNDERGROUND POWER AND TELECOM DUCTS
TOBY	TOBY		
VALVE	VALVE		
WASTEWATER MANHOLE	WASTEWATER MANHOLE		
STORMWATER MANHOLE	STORMWATER MANHOLE		
WATER MANHOLE	WATER MANHOLE		
MUD TANK	MUD TANK		
FIRE HYDRANT	FIRE HYDRANT		
GULLY TRAP	GULLY TRAP		
POWER BOX	POWER BOX		
TELECOM DOME	TELECOM DOME		
POWER POLE	POWER POLE		
LIGHT POLE	LIGHT POLE		
TELECOM LID	TELECOM LID		
MAIL BOX	MAIL BOX		
RODDING EYE	RODDING EYE		

NOTES:

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EXISTING SERVICES		PROPOSED SERVICES	
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B	DETAILED DESIGN ISSUED FOR CLIENT APPROVAL	R.G.	2021-08-30
C	DETAILED DESIGN ISSUED FOR TENDER	R.G.	2021-10-22



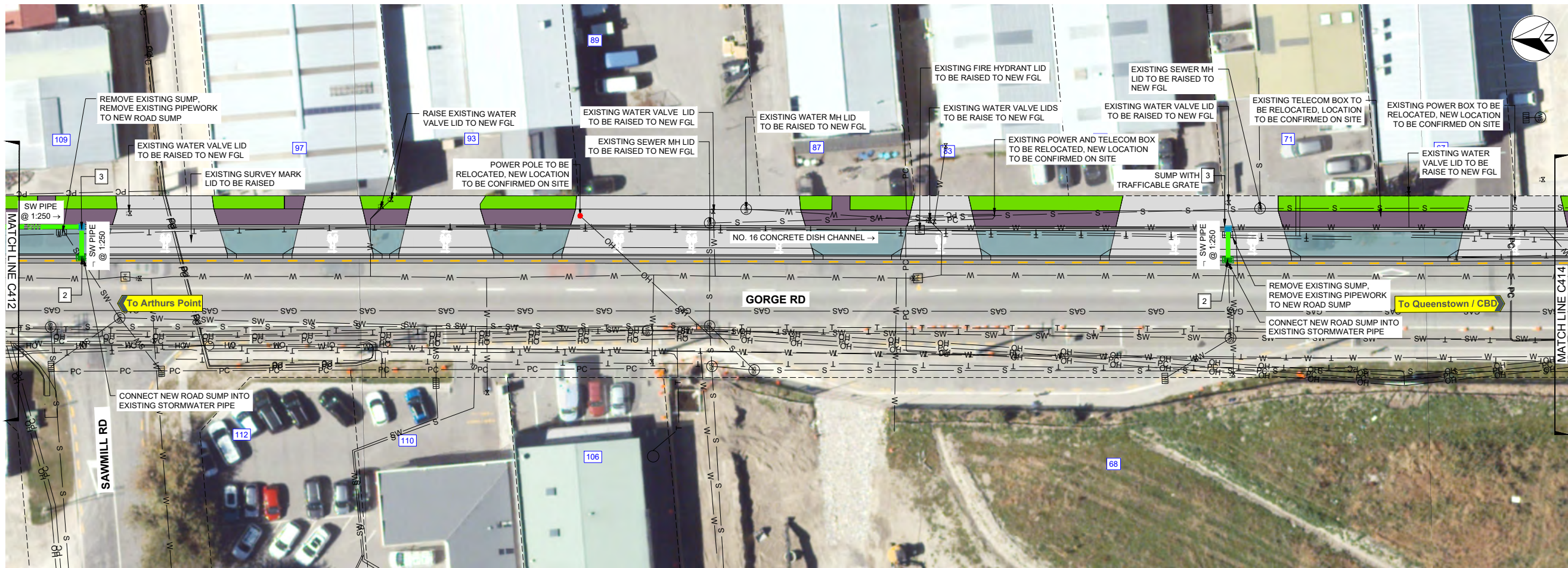
wsp
Queenstown Office
+64 3 451 0360
PO Box 2323
Queenstown 9300
New Zealand

CIVIL

SCALES	ORIGINAL SIZE	
1:250 @ A1	A1	
DRAWN	DESIGNED	APPROVED
P. FIEREK	P. FIEREK	R. GILL
DRAWING VERIFIED	DESIGN VERIFIED	APPROVED DATE
S. FORBES	S. SHERLAW	2021-08-02

FOR TENDER

PROJECT			
QUEENSTOWN LAKES DISTRICT COUNCIL WAKATIPU ACTIVE TRAVEL WATN STAGE 2 ROUTES - ROUTE C5			
TITLE			
PROPOSED SERVICES PLAN SHEET 13 OF 23			
WSP PROJECT NO.	PROJ-ORIG-VOL-LOC-TYPE	SHEET NO.	REVISION
6-QX141.00	6-QX141-WSP-01-C5-DR	C412	C



PLAN
SCALE 1:250(A1), 1:500(A3)

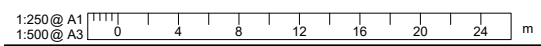
NOTE:
NO PROPOSED STORMWATER INVERT LEVELS SHOWN,
TO BE CONFIRMED ON SITE WITH THE ENGINEER.

EXISTING SERVICES		PROPOSED SERVICES	
---	LEGAL BOUNDARY	[E]	POWER BOX
— SW —	STORMWATER PIPE	[T]	TELECOM DOME
— S —	SANITARY SEWER PIPE	[PP]	POWER POLE
— W —	WATER PIPE	[LP]	LIGHT POLE
— PC —	UNDERGROUND POWER CABLE	[T]	TELECOM LID
— T —	CHORUS CABLES	[MB]	MAIL BOX
— OH —	OVERHEAD POWER CABLE	[RE]	RODDING EYE
— GAS —	RETICULATED GAS	[TOBY]	TOBY
[X]	VALVE	[V]	VALVE
[SM]	WASTEWATER MANHOLE	[M]	WATER MANHOLE
[SM]	STORMWATER MANHOLE	[M]	MUD TANK
[M]	MUD TANK	[FH]	FIRE HYDRANT
[GT]	GULLY TRAP	[GT]	GULLY TRAP
[1]	DOUBLE BACK-ENTRY SUMP AS PER QLDC STANDARD DETAIL B5-14	[2]	STANDARD SUMP AS PER QLDC STANDARD DETAIL B5-11
[2]	STANDARD SUMP AS PER QLDC STANDARD DETAIL B5-11	[3]	BERM SUMP AS PER QLDC STANDARD DETAIL B5-17
[3]	BERM SUMP AS PER QLDC STANDARD DETAIL B5-17	[4]	FLAT CHANNEL OR YARD SUMP AS PER QLDC STANDARD DETAIL B5-10
[4]	FLAT CHANNEL OR YARD SUMP AS PER QLDC STANDARD DETAIL B5-10	[5]	STORMWATER MANHOLE WITH SCRUFFY DOME
[5]	STORMWATER MANHOLE WITH SCRUFFY DOME	[6]	225Ø PVC STORMWATER PIPE (UNLESS STATED OTHERWISE)
[6]	225Ø PVC STORMWATER PIPE (UNLESS STATED OTHERWISE)	[PC]	UNDERGROUND POWER AND TELECOM DUCTS

NOTES:

- PLANS TO BE READ IN CONJUNCTION WITH ALL DRAWINGS AND SPECIFICATIONS.
- EXISTING SERVICES SHOWN ARE INDICATIVE ONLY, CONTRACTOR TO LOCATE ALL SERVICES PRIOR TO COMMENCEMENT OF WORKS.
- CONTRACTOR SHALL CONFIRM DIMENSIONS AND SET-OUT PRIOR TO ORDERING MATERIAL OR CONSTRUCTION.
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- ALL CONSTRUCTION WORKS TO BE IN ACCORDANCE WITH QUEENSTOWN LAKES DISTRICT COUNCIL'S LAND DEVELOPMENT AND SUBDIVISION CODE OF PRACTICE.
- POTHOLES TO COMMENCE PRIOR TO CONSTRUCTION TO CONFIRM INVERT LEVELS OF EXISTING SERVICES AND UTILITIES.
- ALL SUMPS WITHIN CYCLE LANES TO HAVE CYCLE FRIENDLY GRATES.

EXISTING SERVICES		PROPOSED SERVICES	
[Blue line]	INDICATIVE LOCATION OF AN EXISTING PIPE CULVERT (EXISTING DIAMETER VARIES FROM 100 mm TO 300 mm DIA AND EXISTING LENGTH VARIES FROM 2 TO 2.5 m) TO BE REPLACED WITH A 3.5 m LONG FARMBOSS PE PIPE WITH MINIMUM INTERNAL DIAMETER OF 250 mm BUT NO SMALLER THAN PIPE BEING REPLACED	[Red line]	NEW PIPED CULVERT - 3.5 m LONG FARMBOSS PE OR EQUIVALENT WITH INTERNAL DIAMETER OF 250 mm TO IMPROVE DRAINAGE WHERE OBSERVED TO CURRENTLY OVERFLOW EXISTING PATH. LOCATIONS TO BE AGREED WITH ENGINEER ON SITE
[Yellow line]	EXISTING PIPE CULVERT TO REMAIN		



REVISION	AMENDMENT	APPROVED	DATE
A	DETAILED DESIGN ISSUED FOR CLIENT REVIEW	R.G.	2021-08-02
B	DETAILED DESIGN ISSUED FOR CLIENT APPROVAL	R.G.	2021-08-30
C	DETAILED DESIGN ISSUED FOR TENDER	R.G.	2021-10-22



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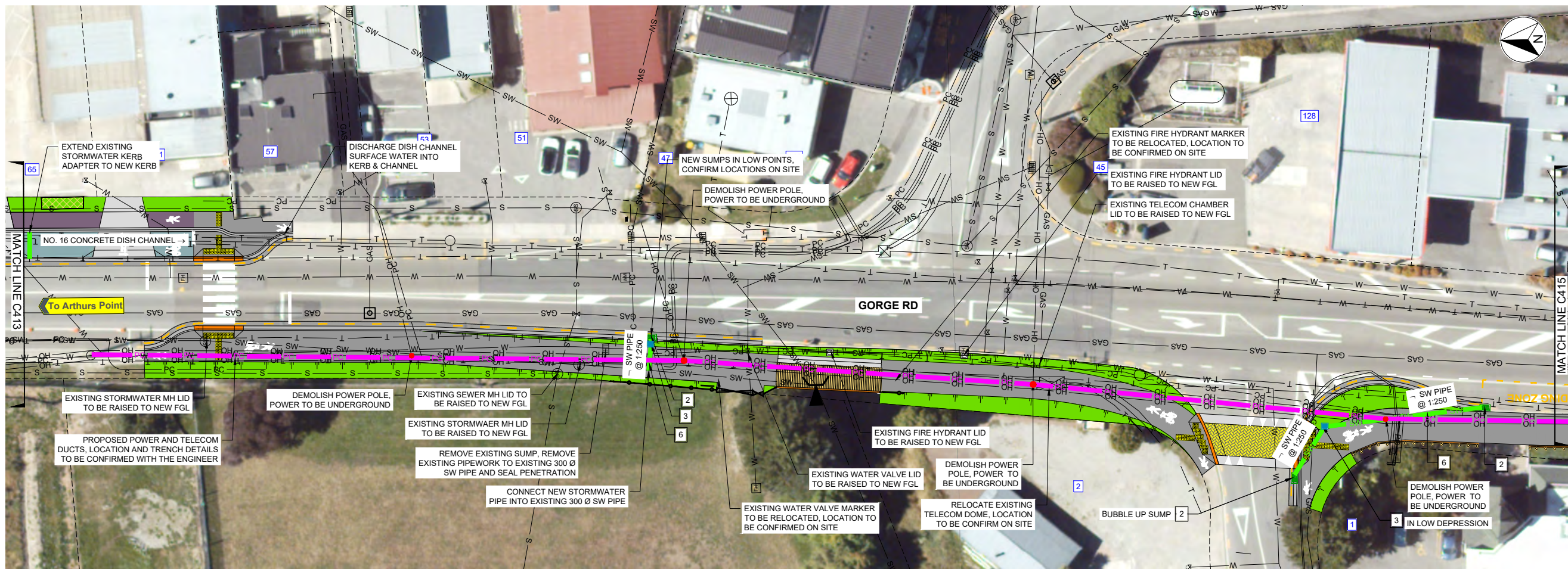
SCALES	ORIGINAL SIZE
1:250 @ A1 1:500 @ A3	A1

DRAWN	DESIGNED	APPROVED
P. FIEREK	P. FIEREK	R. GILL

DRAWING VERIFIED	DESIGN VERIFIED	APPROVED DATE
S. FORBES	S. SHERLAW	2021-08-02

FOR TENDER

PROJECT		SHEET NO.		REVISION	
QUEENSTOWN LAKES DISTRICT COUNCIL WAKATIPU ACTIVE TRAVEL WATN STAGE 2 ROUTES - ROUTE C5		C413	C		
TITLE		SHEET NO.		REVISION	
PROPOSED SERVICES PLAN SHEET 14 OF 23		C413	C		
WSP PROJECT NO.	PROJ-ORIG-VOL-LOC-TYPE	SHEET NO.		REVISION	
6-QX141.00	6-QX141-WSP-01-C5-DR	C413	C		



PLAN
SCALE 1:250(A1), 1:500(A3)

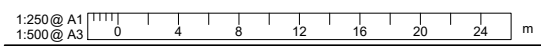
NOTE:
NO PROPOSED STORMWATER INVERT LEVELS SHOWN,
TO BE CONFIRMED ON SITE WITH THE ENGINEER.

EXISTING SERVICES		PROPOSED SERVICES	
---	LEGAL BOUNDARY	1	DOUBLE BACK-ENTRY SUMP AS PER QLDC STANDARD DETAIL B5-14
— SW —	STORMWATER PIPE	2	STANDARD SUMP AS PER QLDC STANDARD DETAIL B5-11
— S —	SANITARY SEWER PIPE	3	BERM SUMP AS PER QLDC STANDARD DETAIL B5-17
— W —	WATER PIPE	4	FLAT CHANNEL OR YARD SUMP AS PER QLDC STANDARD DETAIL B5-10
— PC —	UNDERGROUND POWER CABLE	5	STORMWATER MANHOLE WITH SCRUFFY DOME
— T —	CHORUS CABLES	6	225Ø PVC STORMWATER PIPE (UNLESS STATED OTHERWISE)
— OH —	OVERHEAD POWER CABLE		BOLLARD FOR LIGHTING
— GAS —	RETICULATED GAS		UNDERGROUND POWER AND TELECOM DUCTS
TOBY	TOBY		
VALVE	VALVE		
WASTEWATER MANHOLE	WASTEWATER MANHOLE		
STORMWATER MANHOLE	STORMWATER MANHOLE		
WATER MANHOLE	WATER MANHOLE		
MUD TANK	MUD TANK		
FIRE HYDRANT	FIRE HYDRANT		
GULLY TRAP	GULLY TRAP		
POWER BOX	POWER BOX		
TELECOM DOME	TELECOM DOME		
POWER POLE	POWER POLE		
LIGHT POLE	LIGHT POLE		
TELECOM LID	TELECOM LID		
MAIL BOX	MAIL BOX		
RODDING EYE	RODDING EYE		

NOTES:

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- POTHOLING TO COMMENCE PRIOR TO CONSTRUCTION TO CONFIRM INVERT LEVELS OF EXISTING SERVICES AND UTILITIES.
- ALL SUMPS WITHIN CYCLE LANES TO HAVE CYCLE FRIENDLY GRATES.

EXISTING SERVICES		PROPOSED SERVICES	
—	INDICATIVE LOCATION OF AN EXISTING PIPE CULVERT (EXISTING DIAMETER VARIES FROM 100 mm TO 300 mm DIA AND EXISTING LENGTH VARIES FROM 2 TO 2.5 m) TO BE REPLACED WITH A 3.5 m LONG FARMBOSS PE PIPE WITH MINIMUM INTERNAL DIAMETER OF 250 mm BUT NO SMALLER THAN PIPE BEING REPLACED	—	NEW PIPED CULVERT - 3.5 m LONG FARMBOSS PE OR EQUIVALENT WITH INTERNAL DIAMETER OF 250 mm TO IMPROVE DRAINAGE WHERE OBSERVED TO CURRENTLY OVERFLOW EXISTING PATH. LOCATIONS TO BE AGREED WITH ENGINEER ON SITE
—	EXISTING PIPE CULVERT TO REMAIN		



REVISION	AMENDMENT	APPROVED	DATE
A	DETAILED DESIGN ISSUED FOR CLIENT REVIEW	R.G.	2021-08-02
B	DETAILED DESIGN ISSUED FOR CLIENT APPROVAL	R.G.	2021-08-30
C	DETAILED DESIGN ISSUED FOR TENDER	R.G.	2021-10-22



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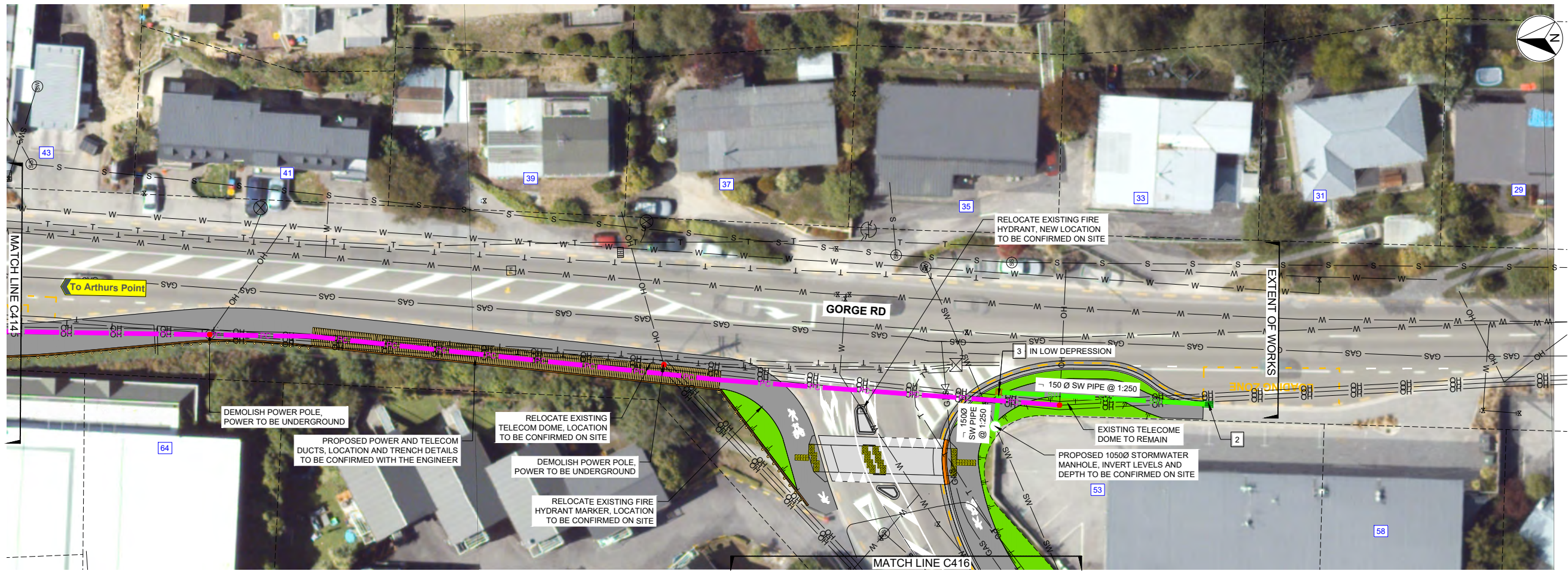
SCALES	ORIGINAL SIZE
1:250 @ A1 1:500 @ A3	A1

DRAWN	DESIGNED	APPROVED
P. FIEREK	P. FIEREK	R. GILL

DRAWING VERIFIED	DESIGN VERIFIED	APPROVED DATE
S. FORBES	S. SHERLAW	2021-08-02

FOR TENDER

PROJECT		SHEET NO.		REVISION	
QUEENSTOWN LAKES DISTRICT COUNCIL WAKATIPU ACTIVE TRAVEL WATN STAGE 2 ROUTES - ROUTE C5		C414	C		
TITLE		SHEET NO.		REVISION	
PROPOSED SERVICES PLAN SHEET 15 OF 23		C414	C		
WSP PROJECT NO.		PROJ-ORIG-VOL-LOC-TYPE		SHEET NO.	
6-QX141.00		6-QX141-WSP-01-C5-DR		C414	



PLAN
SCALE 1:250(A1), 1:500(A3)

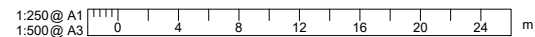
NOTE:
NO PROPOSED STORMWATER INVERT LEVELS SHOWN,
TO BE CONFIRMED ON SITE WITH THE ENGINEER.

KEY		EXISTING SERVICES		PROPOSED SERVICES	
---	LEGAL BOUNDARY	TOBY	TOBY	E	POWER BOX
— SW —	STORMWATER PIPE	VALVE	VALVE	1	DOUBLE BACK-ENTRY SUMP AS PER QLDC STANDARD DETAIL B5-14
— S —	SANITARY SEWER PIPE	SS	WASTEWATER MANHOLE	2	STANDARD SUMP AS PER QLDC STANDARD DETAIL B5-11
— W —	WATER PIPE	SW	STORMWATER MANHOLE	3	BERM SUMP AS PER QLDC STANDARD DETAIL B5-17
— PC —	UNDERGROUND POWER CABLE	MH	WATER MANHOLE	4	FLAT CHANNEL OR YARD SUMP AS PER QLDC STANDARD DETAIL B5-10
— T —	CHORUS CABLES	MUD TANK	MUD TANK	5	STORMWATER MANHOLE WITH SCRUFFY DOME
— OH —	OVERHEAD POWER CABLE	FH	FIRE HYDRANT	6	2250 PVC STORMWATER PIPE (UNLESS STATED OTHERWISE)
— GAS —	RETICULATED GAS	GT	GULLY TRAP		BOLLARD FOR LIGHTING
					UNDERGROUND POWER AND TELECOM DUCTS

NOTES:

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- ALL SUMPS WITHIN CYCLE LANES TO HAVE CYCLE FRIENDLY GRATES.

KEY		EXISTING SERVICES		PROPOSED SERVICES	
—	INDICATIVE LOCATION OF AN EXISTING PIPE CULVERT (EXISTING DIAMETER VARIES FROM 100 mm TO 300 mm DIA AND EXISTING LENGTH VARIES FROM 2 TO 2.5 m) TO BE REPLACED WITH A 3.5 m LONG FARMBOSS PE PIPE WITH MINIMUM INTERNAL DIAMETER OF 250 mm BUT NO SMALLER THAN PIPE BEING REPLACED	—	NEW PIPED CULVERT - 3.5 m LONG FARMBOSS PE OR EQUIVALENT WITH INTERNAL DIAMETER OF 250 mm TO IMPROVE DRAINAGE WHERE OBSERVED TO CURRENTLY OVERFLOW EXISTING PATH. LOCATIONS TO BE AGREED WITH ENGINEER ON SITE		
—	EXISTING PIPE CULVERT TO REMAIN				



REVISION	AMENDMENT	APPROVED	DATE
A	DETAILED DESIGN ISSUED FOR CLIENT REVIEW	R.G.	2021-08-02
B	DETAILED DESIGN ISSUED FOR CLIENT APPROVAL	R.G.	2021-08-30
C	DETAILED DESIGN ISSUED FOR TENDER	R.G.	2021-10-22



wsp
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PO Box 2323
Queenstown 9300
New Zealand

CIVIL

SCALES	ORIGINAL SIZE	
1:250 @ A1	A1	
DRAWN	DESIGNED	APPROVED
P. FIEREK	P. FIEREK	R. GILL
DRAWING VERIFIED	DESIGN VERIFIED	APPROVED DATE
S. FORBES	S. SHERLAW	2021-08-02

FOR TENDER

PROJECT			
QUEENSTOWN LAKES DISTRICT COUNCIL WAKATIPU ACTIVE TRAVEL WATN STAGE 2 ROUTES - ROUTE C5			
TITLE			
PROPOSED SERVICES PLAN SHEET 16 OF 23			
WSP PROJECT NO.	PROJ-ORIG-VOL-LOC-TYPE	SHEET NO.	REVISION
6-QX141.00	6-QX141-WSP-01-C5-DR	C415	C



PLAN
SCALE 1:250(A1), 1:500(A3)

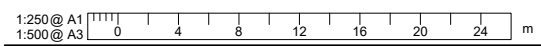
NOTE:
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TO BE CONFIRMED ON SITE WITH THE ENGINEER.

EXISTING SERVICES		PROPOSED SERVICES	
---	LEGAL BOUNDARY	1	DOUBLE BACK-ENTRY SUMP AS PER QLDC STANDARD DETAIL B5-14
— SW —	STORMWATER PIPE	2	STANDARD SUMP AS PER QLDC STANDARD DETAIL B5-11
— S —	SANITARY SEWER PIPE	3	BERM SUMP AS PER QLDC STANDARD DETAIL B5-17
— W —	WATER PIPE	4	FLAT CHANNEL OR YARD SUMP AS PER QLDC STANDARD DETAIL B5-10
— PC —	UNDERGROUND POWER CABLE	5	STORMWATER MANHOLE WITH SCRUFFY DOME
— T —	CHORUS CABLES	6	225Ø PVC STORMWATER PIPE (UNLESS STATED OTHERWISE)
— OH —	OVERHEAD POWER CABLE		BOLLARD FOR LIGHTING
— GAS —	RETICULATED GAS		UNDERGROUND POWER AND TELECOM DUCTS
⊗	TOBY		
⊗	VALVE		
⊗	WASTEWATER MANHOLE		
⊗	STORMWATER MANHOLE		
⊗	WATER MANHOLE		
⊗	MUD TANK		
⊗	FIRE HYDRANT		
⊗	GULLY TRAP		
⊗	POWER BOX		
⊗	TELECOM DOME		
⊗	POWER POLE		
⊗	LIGHT POLE		
⊗	TELECOM LID		
⊗	MAIL BOX		
⊗	RODDING EYE		

NOTES:

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- ALL SUMPS WITHIN CYCLE LANES TO HAVE CYCLE FRIENDLY GRATES.

EXISTING SERVICES		PROPOSED SERVICES	
—	INDICATIVE LOCATION OF AN EXISTING PIPE CULVERT (EXISTING DIAMETER VARIES FROM 100 mm TO 300 mm DIA AND EXISTING LENGTH VARIES FROM 2 TO 2.5 m) TO BE REPLACED WITH A 3.5 m LONG FARMBOSS PE PIPE WITH MINIMUM INTERNAL DIAMETER OF 250 mm BUT NO SMALLER THAN PIPE BEING REPLACED	—	NEW PIPED CULVERT - 3.5 m LONG FARMBOSS PE OR EQUIVALENT WITH INTERNAL DIAMETER OF 250 mm TO IMPROVE DRAINAGE WHERE OBSERVED TO CURRENTLY OVERFLOW EXISTING PATH. LOCATIONS TO BE AGREED WITH ENGINEER ON SITE
—	EXISTING PIPE CULVERT TO REMAIN		



REVISION	AMENDMENT	APPROVED	DATE
A	DETAILED DESIGN ISSUED FOR CLIENT REVIEW	R.G.	2021-08-02
B	DETAILED DESIGN ISSUED FOR CLIENT APPROVAL	R.G.	2021-08-30
C	DETAILED DESIGN ISSUED FOR TENDER	R.G.	2021-10-22



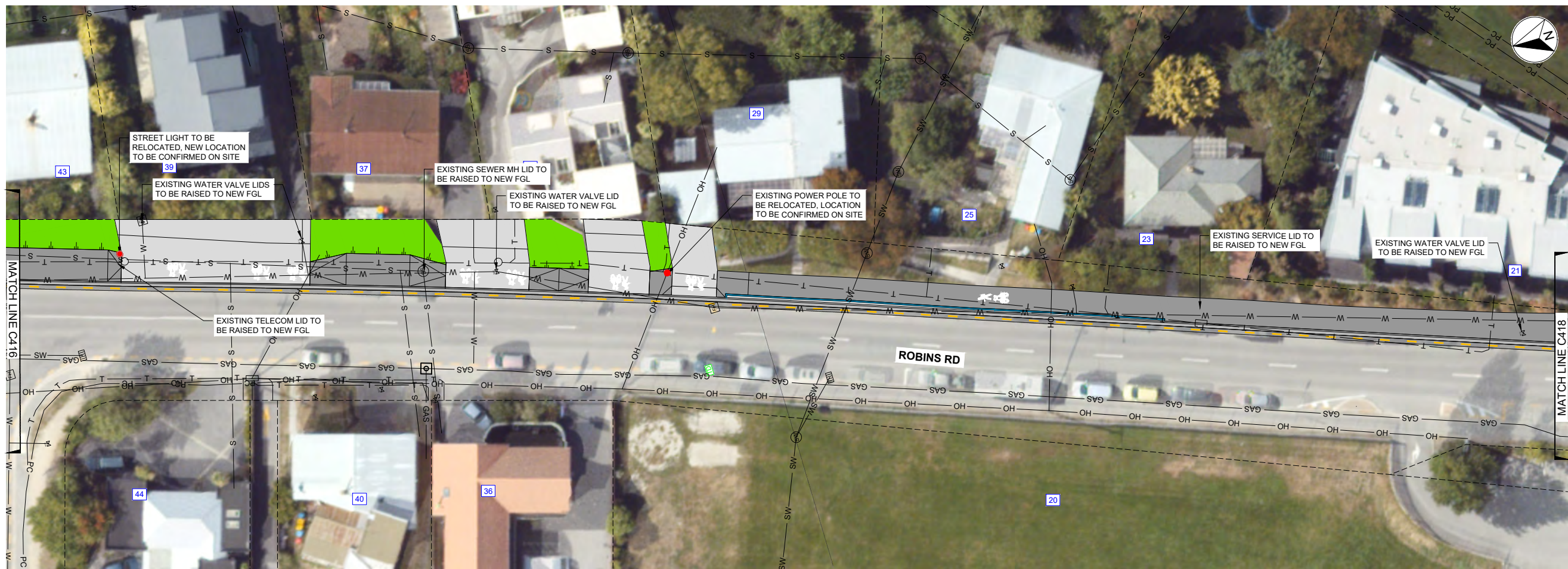
wsp
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PO Box 2323
Queenstown 9300
New Zealand

CIVIL

SCALES	DESIGNED	APPROVED
1:250 @ A1	P. FIEREK	R. GILL
DRAWN	P. FIEREK	R. GILL
P. FIEREK	P. FIEREK	R. GILL
DRAWING VERIFIED	DESIGN VERIFIED	APPROVED DATE
S.FORBES	S.SHERLAW	2021-08-02

FOR TENDER

PROJECT	TITLE	WSP PROJECT NO.	PROJ-ORIG-VOL-LOC-TYPE	SHEET NO.	REVISION
QUEENSTOWN LAKES DISTRICT COUNCIL WAKATIPU ACTIVE TRAVEL WATN STAGE 2 ROUTES - ROUTE C5	PROPOSED SERVICES PLAN SHEET 17 OF 23	6-QX141.00	6-QX141-WSP-01-C5-DR	C416	C



PLAN
SCALE 1:250(A1), 1:500(A3)

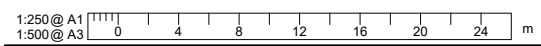
NOTE:
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EXISTING SERVICES		PROPOSED SERVICES	
---	LEGAL BOUNDARY	[E]	POWER BOX
— SW —	STORMWATER PIPE	[●]	TELECOM DOME
— S —	SANITARY SEWER PIPE	[PP]	POWER POLE
— W —	WATER PIPE	[LP]	LIGHT POLE
— PC —	UNDERGROUND POWER CABLE	[T]	TELECOM LID
— T —	CHORUS CABLES	[MB]	MAIL BOX
— OH —	OVERHEAD POWER CABLE	[RE]	RODDING EYE
— GAS —	RETICULATED GAS	[1]	DOUBLE BACK-ENTRY SUMP AS PER QLDC STANDARD DETAIL B5-14
[TOBY]	TOBY	[2]	STANDARD SUMP AS PER QLDC STANDARD DETAIL B5-11
[V]	VALVE	[3]	BERM SUMP AS PER QLDC STANDARD DETAIL B5-17
[SMH]	WASTEWATER MANHOLE	[4]	FLAT CHANNEL OR YARD SUMP AS PER QLDC STANDARD DETAIL B5-10
[SMH]	STORMWATER MANHOLE	[5]	STORMWATER MANHOLE WITH SCRUFFY DOME
[MH]	WATER MANHOLE	[6]	225Ø PVC STORMWATER PIPE (UNLESS STATED OTHERWISE)
[MT]	MUD TANK	[BOLLARD]	BOLLARD FOR LIGHTING
[FH]	FIRE HYDRANT	[PC]	UNDERGROUND POWER AND TELECOM DUCTS
[GT]	GULLY TRAP		

NOTES:

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- ALL SUMPS WITHIN CYCLE LANES TO HAVE CYCLE FRIENDLY GRATES.

EXISTING SERVICES	PROPOSED SERVICES
[Blue Line]	[Red Line]
INDICATIVE LOCATION OF AN EXISTING PIPE CULVERT (EXISTING DIAMETER VARIES FROM 100 mm TO 300 mm DIA AND EXISTING LENGTH VARIES FROM 2 TO 2.5 m) TO BE REPLACED WITH A 3.5 m LONG FARMBOSS PE PIPE WITH MINIMUM INTERNAL DIAMETER OF 250 mm BUT NO SMALLER THAN PIPE BEING REPLACED	NEW PIPED CULVERT - 3.5 m LONG FARMBOSS PE OR EQUIVALENT WITH INTERNAL DIAMETER OF 250 mm TO IMPROVE DRAINAGE WHERE OBSERVED TO CURRENTLY OVERFLOW EXISTING PATH. LOCATIONS TO BE AGREED WITH ENGINEER ON SITE
[Yellow Line]	
EXISTING PIPE CULVERT TO REMAIN	



REVISION	AMENDMENT	APPROVED	DATE
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SCALES	ORIGINAL SIZE
1:250 @ A1	A1
1:500 @ A3	

DRAWN	DESIGNED	APPROVED
P. FIEREK	P. FIEREK	R. GILL

DRAWING VERIFIED	DESIGN VERIFIED	APPROVED DATE
S. FORBES	S. SHERLAW	2021-08-02

PROJECT			
QUEENSTOWN LAKES DISTRICT COUNCIL WAKATIPU ACTIVE TRAVEL WATN STAGE 2 ROUTES - ROUTE C5			
TITLE			
PROPOSED SERVICES PLAN SHEET 18 OF 23			
WSP PROJECT NO.	PROJ-ORIG-VOL-LOC-TYPE	SHEET NO.	REVISION
6-QX141.00	6-QX141-WSP-01-C5-DR	C417	C



PLAN
SCALE 1:250(A1), 1:500(A3)

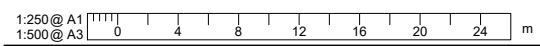
NOTE:
NO PROPOSED STORMWATER INVERT LEVELS SHOWN,
TO BE CONFIRMED ON SITE WITH THE ENGINEER.

KEY		EXISTING SERVICES		PROPOSED SERVICES	
---	LEGAL BOUNDARY	TOBY	TOBY	E	POWER BOX
— SW —	STORMWATER PIPE	⊗	VALVE	●	TELECOM DOME
— S —	SANITARY SEWER PIPE	⊗	WASTEWATER MANHOLE	⊙	POWER POLE
— W —	WATER PIPE	⊗	STORMWATER MANHOLE	⊙	LIGHT POLE
— PC —	UNDERGROUND POWER CABLE	⊗	WATER MANHOLE	T	TELECOM LID
— T —	CHORUS CABLES	⊗	MUD TANK	⊙	MAIL BOX
— OH —	OVERHEAD POWER CABLE	FH	FIRE HYDRANT	⊙	RODDING EYE
— GAS —	RETICULATED GAS	GT	GULLY TRAP	1	DOUBLE BACK-ENTRY SUMP AS PER QLDC STANDARD DETAIL B5-14
				2	STANDARD SUMP AS PER QLDC STANDARD DETAIL B5-11
				3	BERM SUMP AS PER QLDC STANDARD DETAIL B5-17
				4	FLAT CHANNEL OR YARD SUMP AS PER QLDC STANDARD DETAIL B5-10
				5	STORMWATER MANHOLE WITH SCRUFFY DOME
				6	2250 PVC STORMWATER PIPE (UNLESS STATED OTHERWISE)
					BOLLARD FOR LIGHTING
					UNDERGROUND POWER AND TELECOM DUCTS

NOTES:

- PLANS TO BE READ IN CONJUNCTION WITH ALL DRAWINGS AND SPECIFICATIONS.
- EXISTING SERVICES SHOWN ARE INDICATIVE ONLY, CONTRACTOR TO LOCATE ALL SERVICES PRIOR TO COMMENCEMENT OF WORKS.
- CONTRACTOR SHALL CONFIRM DIMENSIONS AND SET-OUT PRIOR TO ORDERING MATERIAL OR CONSTRUCTION.
- ALL MATERIALS AND WORKMANSHIP SHALL BE IN ACCORDANCE WITH THE CURRENT CODES OF PRACTICE EXCEPT WHERE VARIED BY THE SPECIFICATION AND/OR DRAWINGS.
- WHERE PROPRIETARY PRODUCTS ARE SPECIFIED THE CONTRACTOR MAY SUBMIT AN ALTERNATIVE PRODUCT FOR APPROVAL ALL MATERIALS AND WORKMANSHIP SHALL BE IN ACCORDANCE WITH MANUFACTURER'S SPECIFICATION.
- ALL CONSTRUCTION WORKS TO BE IN ACCORDANCE WITH QUEENSTOWN LAKES DISTRICT COUNCIL'S LAND DEVELOPMENT AND SUBDIVISION CODE OF PRACTICE.
- POTHOLING TO COMMENCE PRIOR TO CONSTRUCTION TO CONFIRM INVERT LEVELS OF EXISTING SERVICES AND UTILITIES.
- ALL SUMPS WITHIN CYCLE LANES TO HAVE CYCLE FRIENDLY GRATES.

KEY		EXISTING SERVICES		PROPOSED SERVICES	
—	INDICATIVE LOCATION OF AN EXISTING PIPE CULVERT (EXISTING DIAMETER VARIES FROM 100 mm TO 300 mm DIA AND EXISTING LENGTH VARIES FROM 2 TO 2.5 m) TO BE REPLACED WITH A 3.5 m LONG FARMBOSS PE PIPE WITH MINIMUM INTERNAL DIAMETER OF 250 mm BUT NO SMALLER THAN PIPE BEING REPLACED	—	NEW PIPED CULVERT - 3.5 m LONG FARMBOSS PE OR EQUIVALENT WITH INTERNAL DIAMETER OF 250 mm TO IMPROVE DRAINAGE WHERE OBSERVED TO CURRENTLY OVERFLOW EXISTING PATH. LOCATIONS TO BE AGREED WITH ENGINEER ON SITE		
—	EXISTING PIPE CULVERT TO REMAIN				



REVISION	AMENDMENT	APPROVED	DATE
A	DETAILED DESIGN ISSUED FOR CLIENT REVIEW	R.G.	2021-08-02
B	DETAILED DESIGN ISSUED FOR CLIENT APPROVAL	R.G.	2021-08-30
C	DETAILED DESIGN ISSUED FOR TENDER	R.G.	2021-10-22



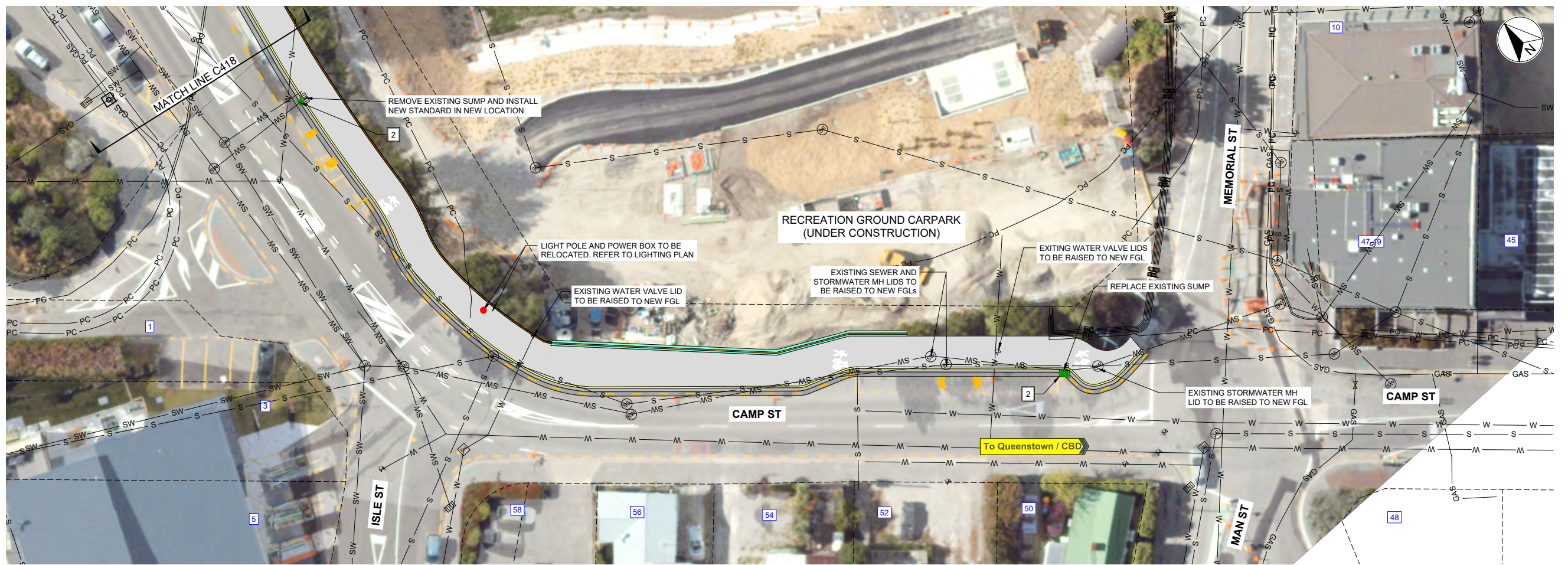
wsp
Queenstown Office
+64 3 451 0360
PO Box 2323
Queenstown 9300
New Zealand

CIVIL

SCALES	DESIGNED	APPROVED
1:250 @ A1	P. FIEREK	R. GILL
	P. FIEREK	R. GILL
DRAWING VERIFIED	DESIGN VERIFIED	APPROVED DATE
S. FORBES	S. SHERLAW	2021-08-02

FOR TENDER

PROJECT		ORIGINAL SIZE	
QUEENSTOWN LAKES DISTRICT COUNCIL WAKATIPU ACTIVE TRAVEL WATN STAGE 2 ROUTES - ROUTE C5		A1	
TITLE PROPOSED SERVICES PLAN SHEET 19 OF 23			
WSP PROJECT NO.	PROJ-ORIG-VOL-LOC-TYPE	SHEET NO.	REVISION
6-QX141.00	6-QX141-WSP-01-C5-DR	C418	C



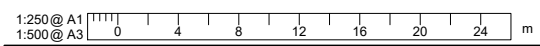
PLAN
SCALE 1:250(A1), 1:500(A3)

NOTE:
NO PROPOSED STORMWATER INVERT LEVELS SHOWN,
TO BE CONFIRMED ON SITE WITH THE ENGINEER.

KEY	
---	LEGAL BOUNDARY
SW	STORMWATER PIPE
S	SANITARY SEWER PIPE
W	WATER PIPE
PC	UNDERGROUND POWER CABLE
T	CHORUS CABLES
OH	OVERHEAD POWER CABLE
GAS	RETICULATED GAS
TOBY	TOBY
⊗	VALVE
MS	WASTEWATER MANHOLE
SW	STORMWATER MANHOLE
WM	WATER MANHOLE
	MUD TANK
FH	FIRE HYDRANT
GT	GULLY TRAP
E	POWER BOX
●	TELECOM DOME
PP	POWER POLE
LP	LIGHT POLE
T	TELECOM LID
Ⓜ	MAIL BOX
Ⓞ	RODDING EYE
1	DOUBLE BACK-ENTRY SUMP AS PER QLDC STANDARD DETAIL B5-14
2	STANDARD SUMP AS PER QLDC STANDARD DETAIL B5-11
3	BERM SUMP AS PER QLDC STANDARD DETAIL B5-17
4	FLAT CHANNEL OR YARD SUMP AS PER QLDC STANDARD DETAIL B5-10
5	STORMWATER MANHOLE WITH SCRUFFY DOME
6	225Ø PVC STORMWATER PIPE (UNLESS STATED OTHERWISE)
●	BOLLARD FOR LIGHTING
PC	UNDERGROUND POWER AND TELECOM DUCTS

- NOTES:**
- PLANS TO BE READ IN CONJUNCTION WITH ALL DRAWINGS EXISTING SPECIFICATIONS.
 - EXISTING SERVICES SHOWN ARE INDICATIVE ONLY. CONTRACTOR TO LOCATE ALL SERVICES PRIOR TO COMMENCEMENT OF WORKS.
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 - POTHOLES TO COMMENCE PRIOR TO CONSTRUCTION TO CONFIRM INVERT LEVELS OF EXISTING SERVICES AND UTILITIES.
 - ALL SUMPS WITHIN CYCLE LANES TO HAVE CYCLE FRIENDLY GRATES.

KEY	
---	EXISTING SERVICES
---	INDICATIVE LOCATION OF AN EXISTING PIPE CULVERT (EXISTING DIAMETER VARIES FROM 100 mm TO 300 mm DIA AND EXISTING LENGTH VARIES FROM 2 TO 2.5 m) TO BE REPLACED WITH A 3.5 m LONG FARMBOSS PE PIPE WITH MINIMUM INTERNAL DIAMETER OF 250 mm BUT NO SMALLER THAN PIPE BEING REPLACED
---	EXISTING PIPE CULVERT TO REMAIN
---	PROPOSED SERVICES
---	NEW PIPED CULVERT - 3.5 m LONG FARMBOSS PE OR EQUIVALENT WITH INTERNAL DIAMETER OF 250 mm TO IMPROVE DRAINAGE WHERE OBSERVED TO CURRENTLY OVERFLOW EXISTING PATH. LOCATIONS TO BE AGREED WITH ENGINEER ON SITE



REVISION	AMENDMENT	APPROVED	DATE
A	DETAILED DESIGN ISSUED FOR CLIENT REVIEW	R.G.	2021-08-02
B	DETAILED DESIGN ISSUED FOR CLIENT APPROVAL	R.G.	2021-08-30
C	DETAILED DESIGN ISSUED FOR TENDER	R.G.	2021-10-22



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Queenstown 9300
New Zealand

CIVIL

SCALES	DESIGNED	APPROVED
1:250 @ A1	P. FIEREK	R. GILL

FOR TENDER

PROJECT	PROJ-ORIG-VOL-LOC-TYPE	SHEET NO.	REVISION
QUEENSTOWN LAKES DISTRICT COUNCIL WAKATIPU ACTIVE TRAVEL WATN STAGE 2 ROUTES - ROUTE C5	6-QX141-00	C419	C
TITLE			
PROPOSED SERVICES PLAN			
SHEET 20 OF 23			



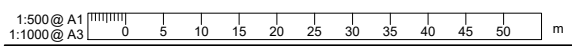
PLAN
SCALE 1:500(A1), 1:500(A3)

EXISTING SERVICES		PROPOSED SERVICES	
---	LEGAL BOUNDARY	[E]	POWER BOX
— SW —	STORMWATER PIPE	[T]	TELECOM DOME
— S —	SANITARY SEWER PIPE	[PP]	POWER POLE
— W —	WATER PIPE	[LP]	LIGHT POLE
— PC —	UNDERGROUND POWER CABLE	[T]	TELECOM LID
— T —	CHORUS CABLES	[MB]	MAIL BOX
— OH —	OVERHEAD POWER CABLE	[RE]	RODDING EYE
— GAS —	RETICULATED GAS	[TOBY]	TOBY
[X]	VALVE	[V]	WASTEWATER MANHOLE
[SM]	STORMWATER MANHOLE	[M]	WATER MANHOLE
[MT]	MUD TANK	[PH]	FIRE HYDRANT
[GT]	GULLY TRAP	[GT]	GULLY TRAP
[1]	DOUBLE BACK-ENTRY SUMP AS PER QLDC STANDARD DETAIL B5-14	[2]	STANDARD SUMP AS PER QLDC STANDARD DETAIL B5-11
[3]	BERM SUMP AS PER QLDC STANDARD DETAIL B5-17	[4]	FLAT CHANNEL OR YARD SUMP AS PER QLDC STANDARD DETAIL B5-10
[5]	STORMWATER MANHOLE WITH SCRUFFY DOME	[6]	225Ø PVC STORMWATER PIPE (UNLESS STATED OTHERWISE)
[BOLLARD]	BOLLARD FOR LIGHTING	[PC]	UNDERGROUND POWER AND TELECOM DUCTS

NOTES:

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- ALL SUMPS WITHIN CYCLE LANES TO HAVE CYCLE FRIENDLY GRATES.

EXISTING SERVICES		PROPOSED SERVICES	
[Blue Line]	INDICATIVE LOCATION OF AN EXISTING PIPE CULVERT (EXISTING DIAMETER VARIES FROM 100 mm TO 300 mm DIA AND EXISTING LENGTH VARIES FROM 2 TO 2.5 m) TO BE REPLACED WITH A 3.5 m LONG FARMBOSS PE PIPE WITH MINIMUM INTERNAL DIAMETER OF 250 mm BUT NO SMALLER THAN PIPE BEING REPLACED	[Red Line]	NEW PIPED CULVERT - 3.5 m LONG FARMBOSS PE OR EQUIVALENT WITH INTERNAL DIAMETER OF 250 mm TO IMPROVE DRAINAGE WHERE OBSERVED TO CURRENTLY OVERFLOW EXISTING PATH. LOCATIONS TO BE AGREED WITH ENGINEER ON SITE
[Yellow Line]	EXISTING PIPE CULVERT TO REMAIN		



REVISION	AMENDMENT	APPROVED	DATE
A	DETAILED DESIGN ISSUED FOR CLIENT REVIEW	R.G.	2021-08-02
B	DETAILED DESIGN ISSUED FOR CLIENT APPROVAL	R.G.	2021-08-30
C	DETAILED DESIGN ISSUED FOR TENDER	R.G.	2021-10-22



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Queenstown 9300
New Zealand

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SCALES	ORIGINAL SIZE	
1:500 @ A1	A1	
DRAWN	DESIGNED	APPROVED
P. FIEREK	P. FIEREK	R. GILL
DRAWING VERIFIED	DESIGN VERIFIED	APPROVED DATE
S. FORBES	S. SHERLAW	2021-08-02

FOR TENDER

PROJECT			
QUEENSTOWN LAKES DISTRICT COUNCIL WAKATIPU ACTIVE TRAVEL WATN STAGE 2 ROUTES - ROUTE C5			
TITLE			
PROPOSED SERVICES PLAN SHEET 21 OF 23			
WSP PROJECT NO.	PROJ-ORIG-VOL-LOC-TYPE	SHEET NO.	REVISION
6-QX141.00	6-QX141-WSP-01-C5-DR	C420	C



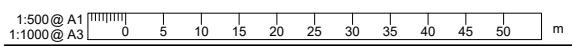
PLAN
SCALE 1:500(A1), 1:500(A3)

EXISTING SERVICES		PROPOSED SERVICES	
---	LEGAL BOUNDARY	[E]	POWER BOX
— SW —	STORMWATER PIPE	[●]	TELECOM DOME
— S —	SANITARY SEWER PIPE	[PP]	POWER POLE
— W —	WATER PIPE	[LP]	LIGHT POLE
— PC —	UNDERGROUND POWER CABLE	[T]	TELECOM LID
— T —	CHORUS CABLES	[MB]	MAIL BOX
— OH —	OVERHEAD POWER CABLE	[RE]	RODDING EYE
— GAS —	RETICULATED GAS	[1]	DOUBLE BACK-ENTRY SUMP AS PER QLDC STANDARD DETAIL B5-14
[TOBY]	TOBY	[2]	STANDARD SUMP AS PER QLDC STANDARD DETAIL B5-11
[V]	VALVE	[3]	BERM SUMP AS PER QLDC STANDARD DETAIL B5-17
[SM]	WASTEWATER MANHOLE	[4]	FLAT CHANNEL OR YARD SUMP AS PER QLDC STANDARD DETAIL B5-10
[SM]	STORMWATER MANHOLE	[5]	STORMWATER MANHOLE WITH SCRUFFY DOME
[MH]	WATER MANHOLE	[6]	225Ø PVC STORMWATER PIPE (UNLESS STATED OTHERWISE)
[MT]	MUD TANK	[BOLLARD]	BOLLARD FOR LIGHTING
[FH]	FIRE HYDRANT	[PC]	UNDERGROUND POWER AND TELECOM DUCTS
[GT]	GULLY TRAP		

NOTES:

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EXISTING SERVICES		PROPOSED SERVICES	
[Blue Line]	INDICATIVE LOCATION OF AN EXISTING PIPE CULVERT (EXISTING DIAMETER VARIES FROM 100 mm TO 300 mm DIA AND EXISTING LENGTH VARIES FROM 2 TO 2.5 m) TO BE REPLACED WITH A 3.5 m LONG FARMBOSS PE PIPE WITH MINIMUM INTERNAL DIAMETER OF 250 mm BUT NO SMALLER THAN PIPE BEING REPLACED	[Red Line]	NEW PIPED CULVERT - 3.5 m LONG FARMBOSS PE OR EQUIVALENT WITH INTERNAL DIAMETER OF 250 mm TO IMPROVE DRAINAGE WHERE OBSERVED TO CURRENTLY OVERFLOW EXISTING PATH. LOCATIONS TO BE AGREED WITH ENGINEER ON SITE
[Yellow Line]	EXISTING PIPE CULVERT TO REMAIN		



REVISION	AMENDMENT	APPROVED	DATE
A	DETAILED DESIGN ISSUED FOR CLIENT REVIEW	R.G.	2021-08-02
B	DETAILED DESIGN ISSUED FOR CLIENT APPROVAL	R.G.	2021-08-30
C	DETAILED DESIGN ISSUED FOR TENDER	R.G.	2021-10-22



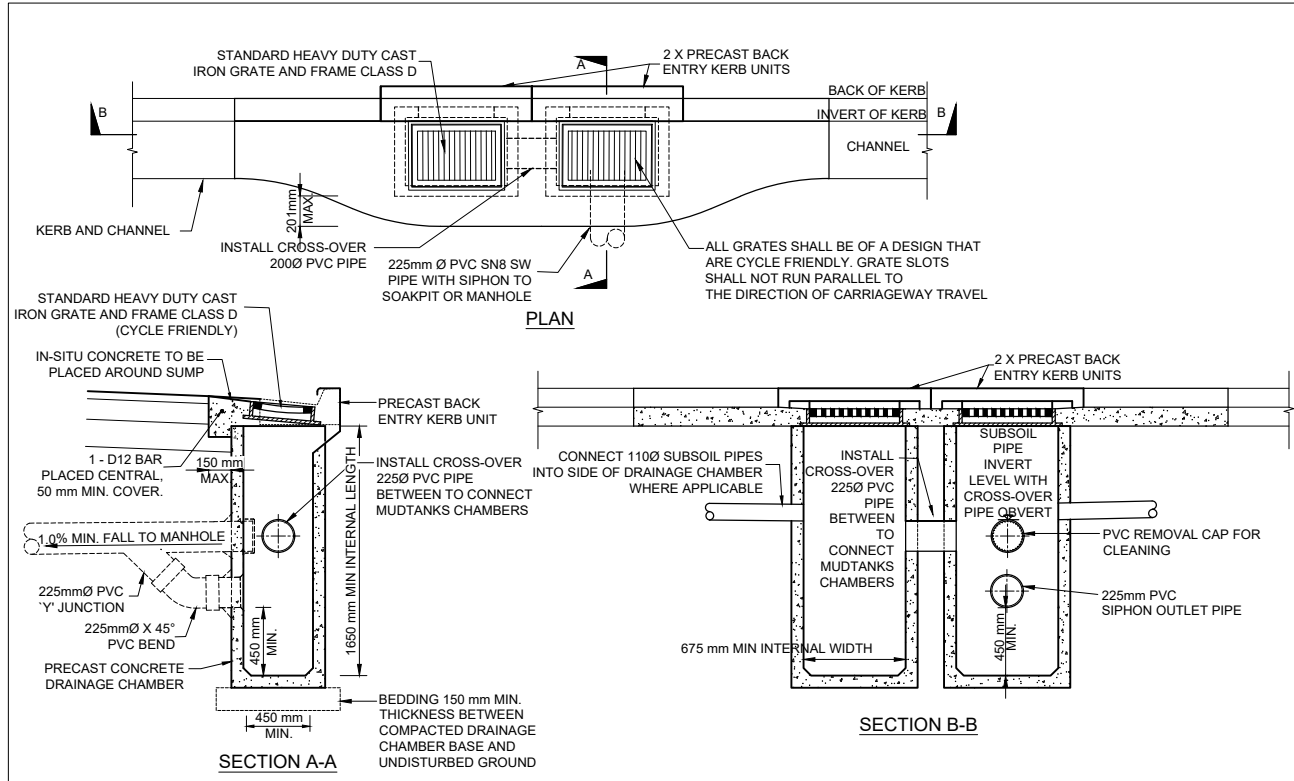
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Queenstown 9300
New Zealand

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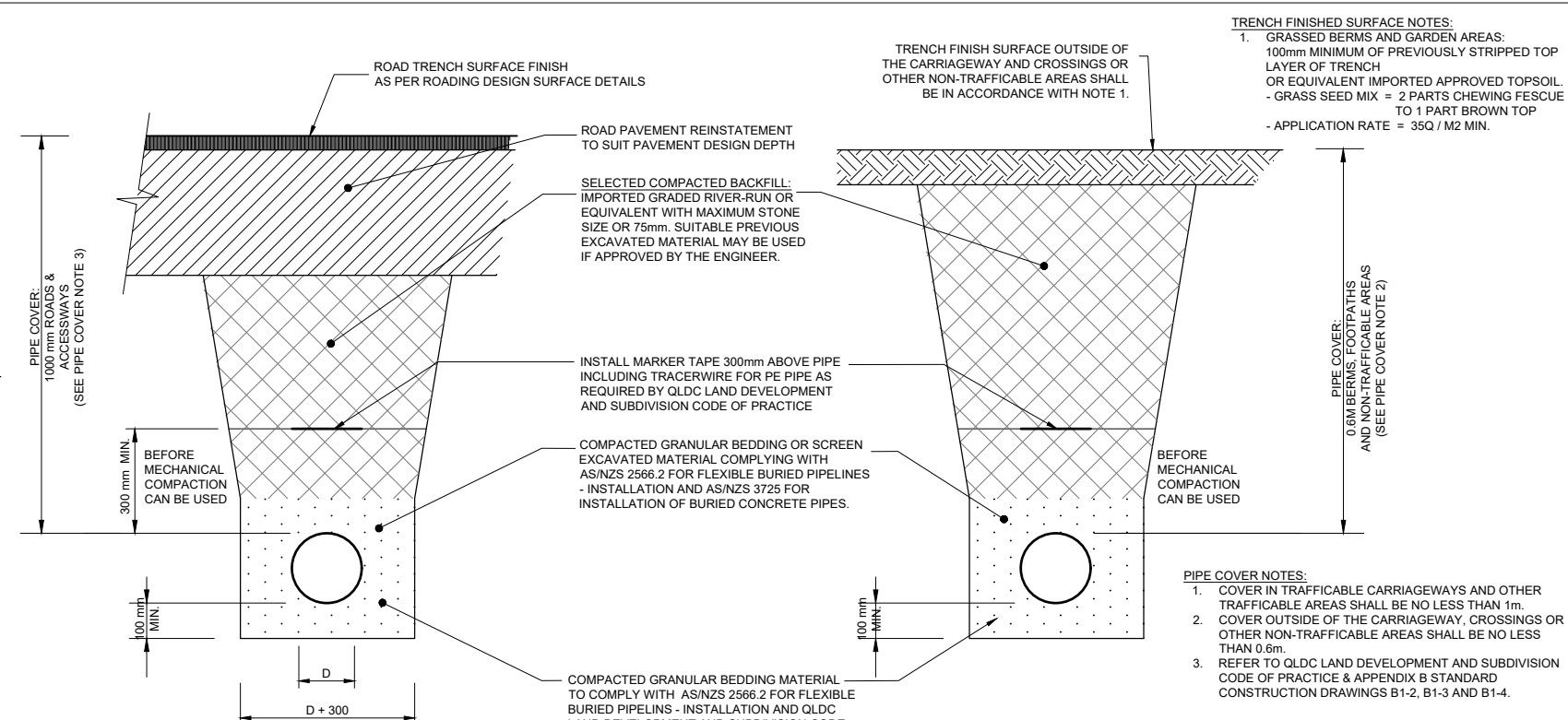
SCALES	ORIGINAL SIZE	
1:500 @ A1	A1	
DRAWN	DESIGNED	APPROVED
P. FIEREK	P. FIEREK	R. GILL
DRAWING VERIFIED	DESIGN VERIFIED	APPROVED DATE
S. FORBES	S. SHERLAW	2021-08-02

FOR TENDER

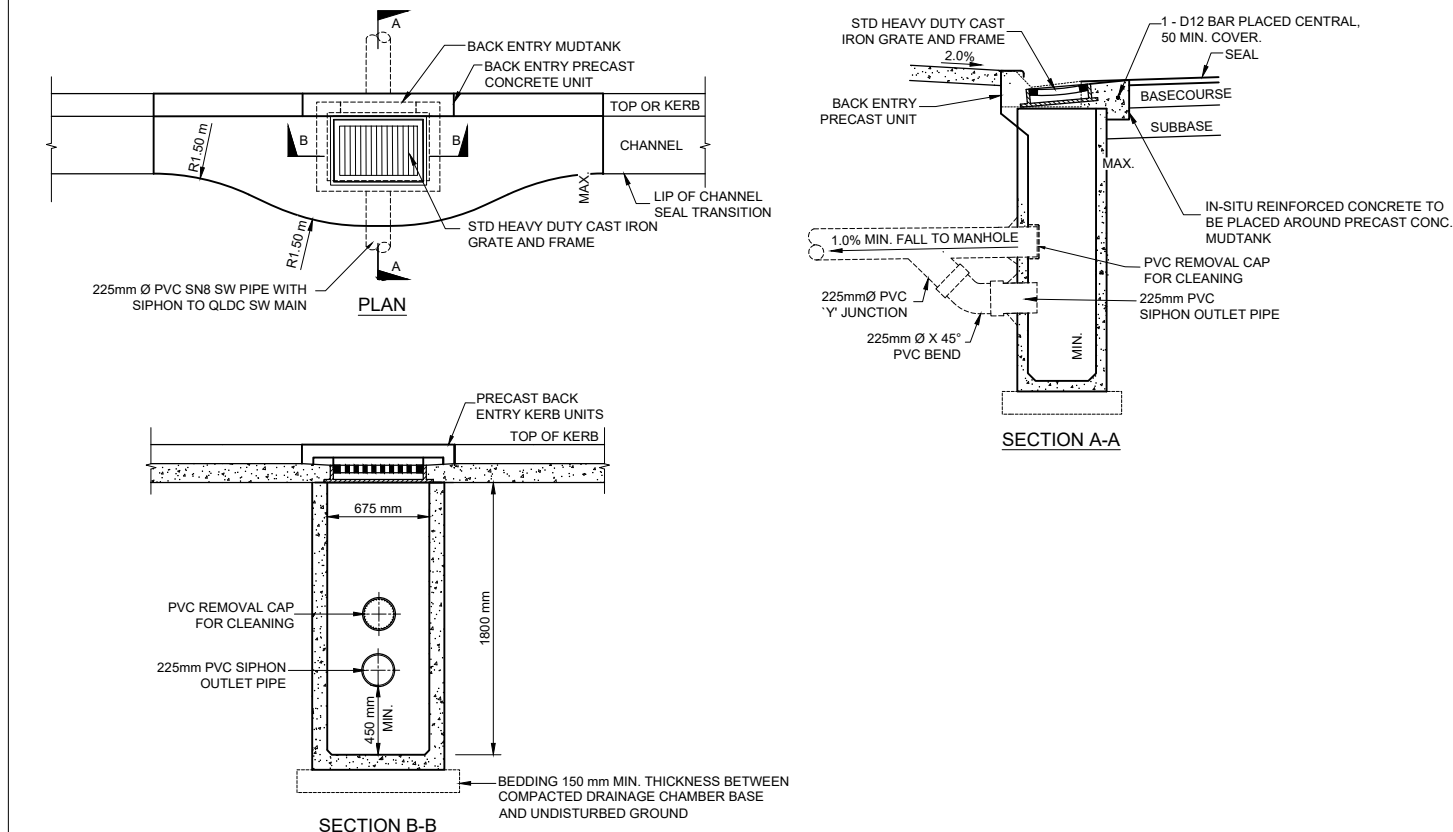
PROJECT			
QUEENSTOWN LAKES DISTRICT COUNCIL			
WAKATIPU ACTIVE TRAVEL			
WATN STAGE 2 ROUTES - ROUTE C5			
TITLE			
PROPOSED SERVICES PLAN			
SHEET 22 OF 23			
WSP PROJECT NO.	PROJ-ORIG-VOL-LOC-TYPE	SHEET NO.	REVISION
6-QX141.00	6-QX141-WSP-01-C5-DR	C421	C



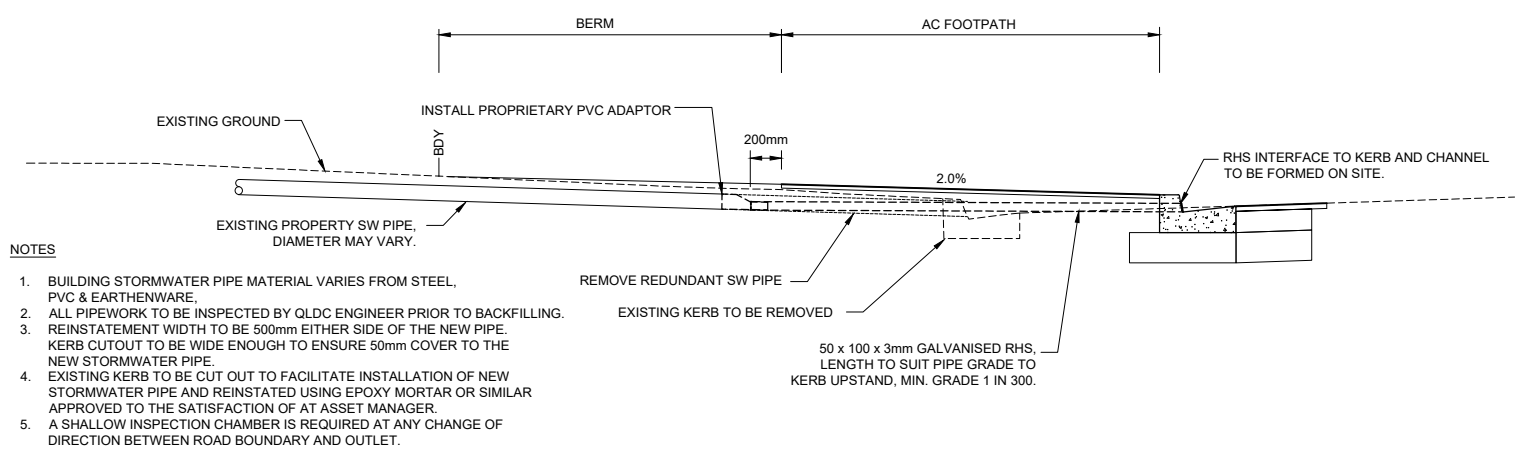
B14 - DOUBLE BACK ENTRY SUMP
Scale 1:25 (A1)



STORMWATER PIPELINE INSTALLATION DETAILS
N.T.S.



B11 - ROAD SUMP DETAIL
Scale 1:25 (A1)



PROPERTY SW KERB DISCHARGE TYPICAL DETAIL
Scale 1:25 (A1)

NOTES

- BUILDING STORMWATER PIPE MATERIAL VARIES FROM STEEL, PVC & EARTHENWARE.
- ALL PIPEWORK TO BE INSPECTED BY QLDC ENGINEER PRIOR TO BACKFILLING.
- REINSTATEMENT WIDTH TO BE 500mm EITHER SIDE OF THE NEW PIPE. KERB CUTOOUT TO BE WIDE ENOUGH TO ENSURE 50mm COVER TO THE NEW STORMWATER PIPE.
- EXISTING KERB TO BE CUT OUT TO FACILITATE INSTALLATION OF NEW STORMWATER PIPE AND REINSTATED USING EPOXY MORTAR OR SIMILAR APPROVED TO THE SATISFACTION OF AT ASSET MANAGER.
- A SHALLOW INSPECTION CHAMBER IS REQUIRED AT ANY CHANGE OF DIRECTION BETWEEN ROAD BOUNDARY AND OUTLET.

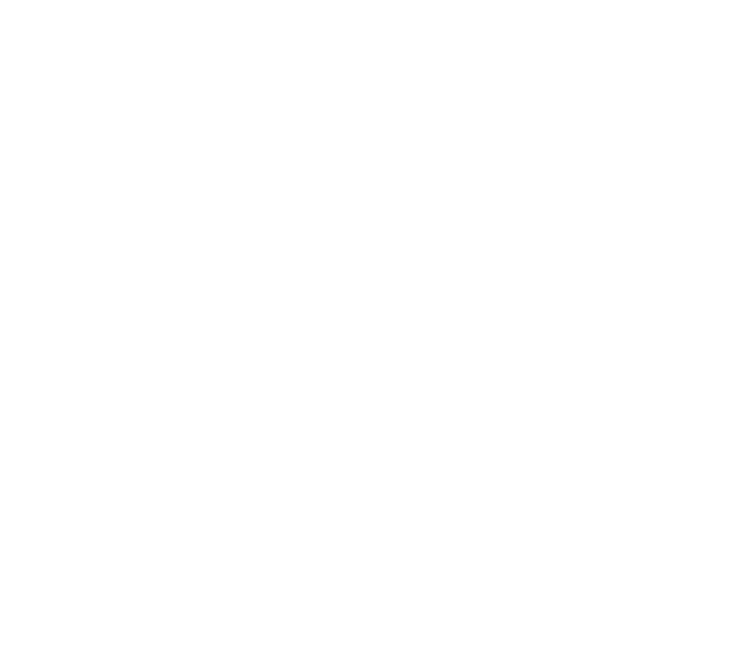
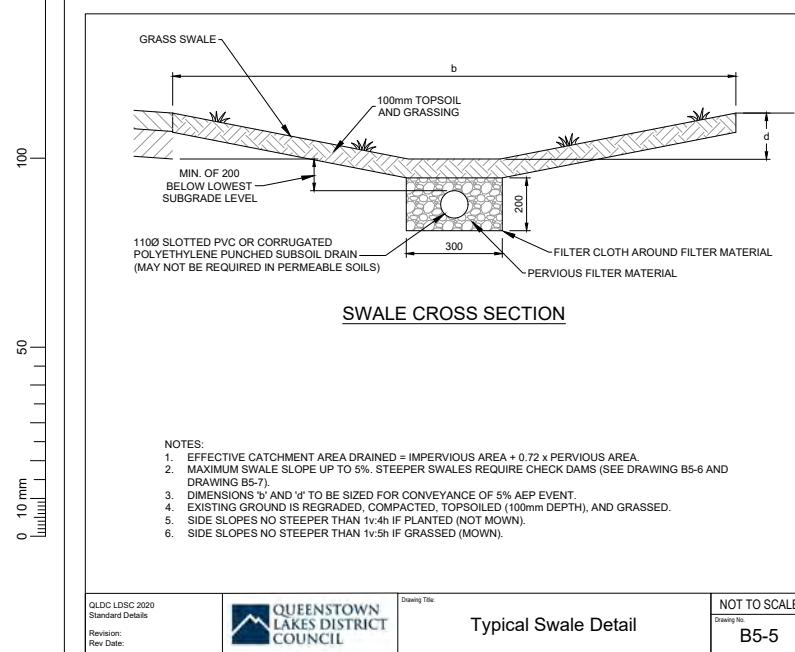
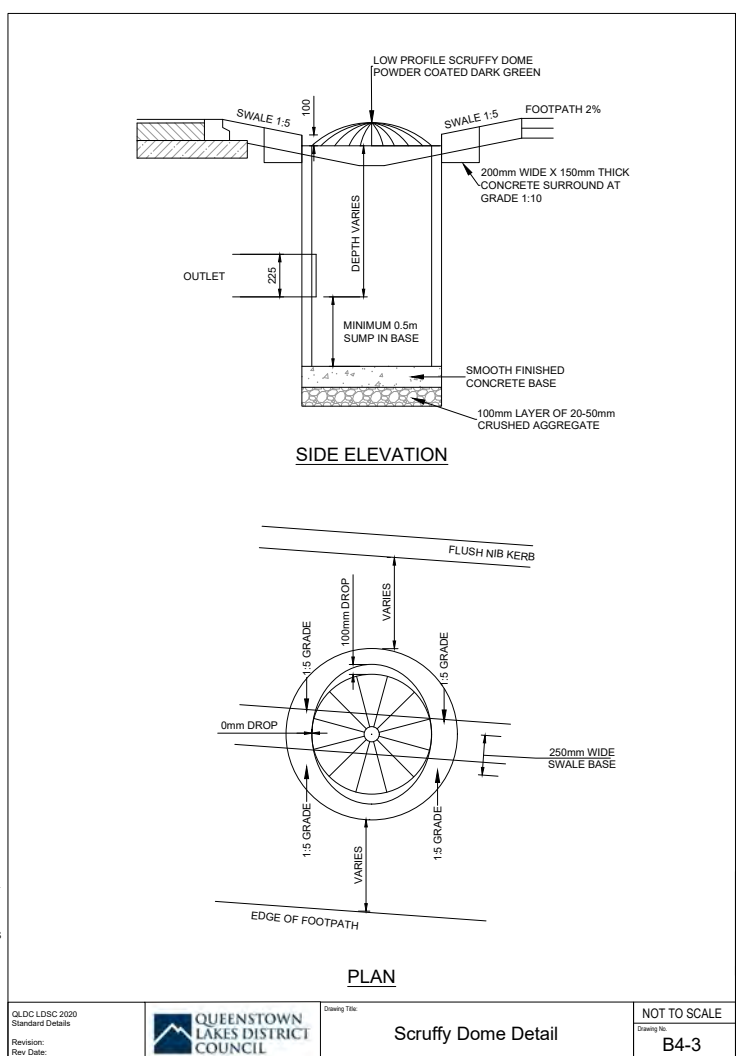
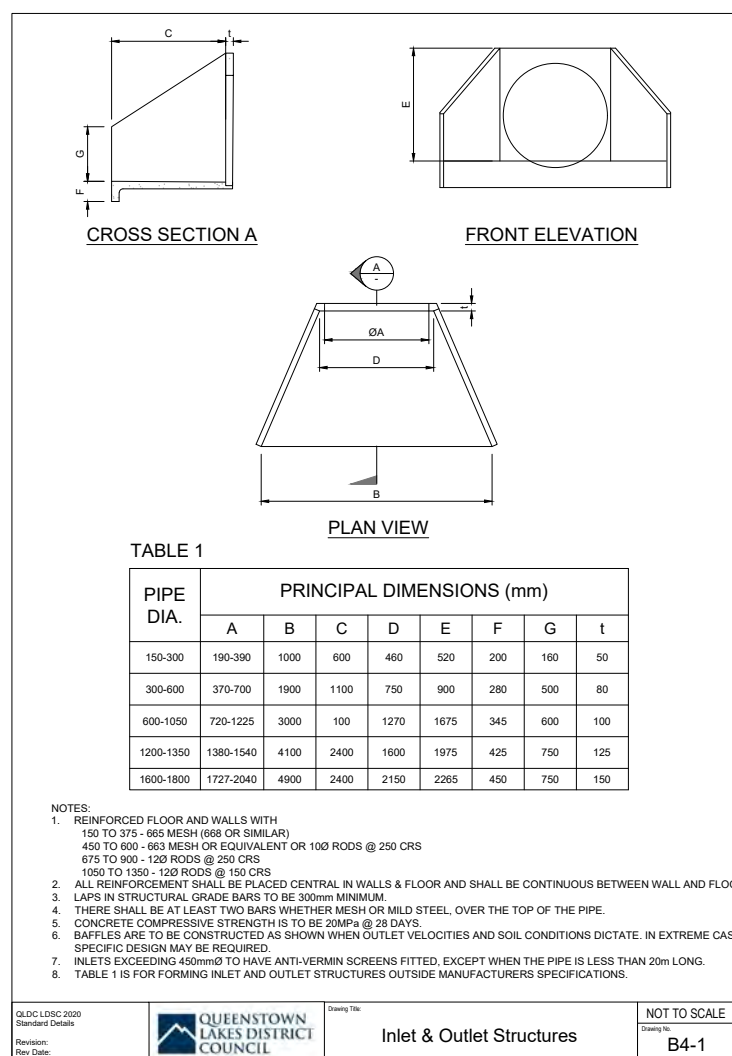
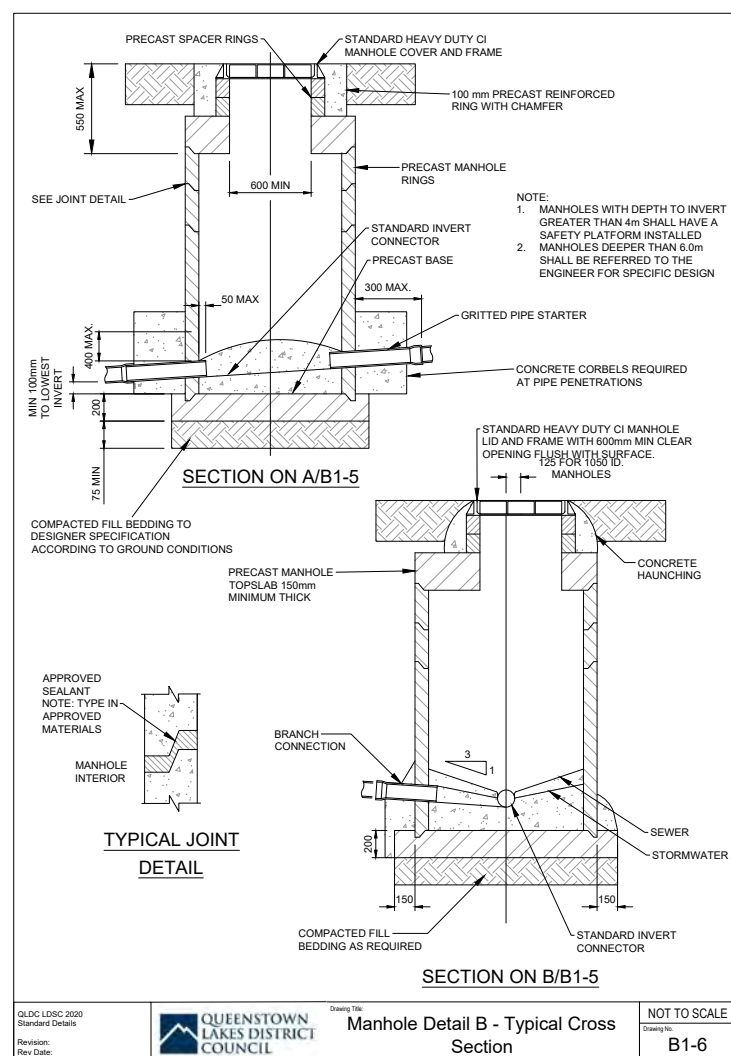
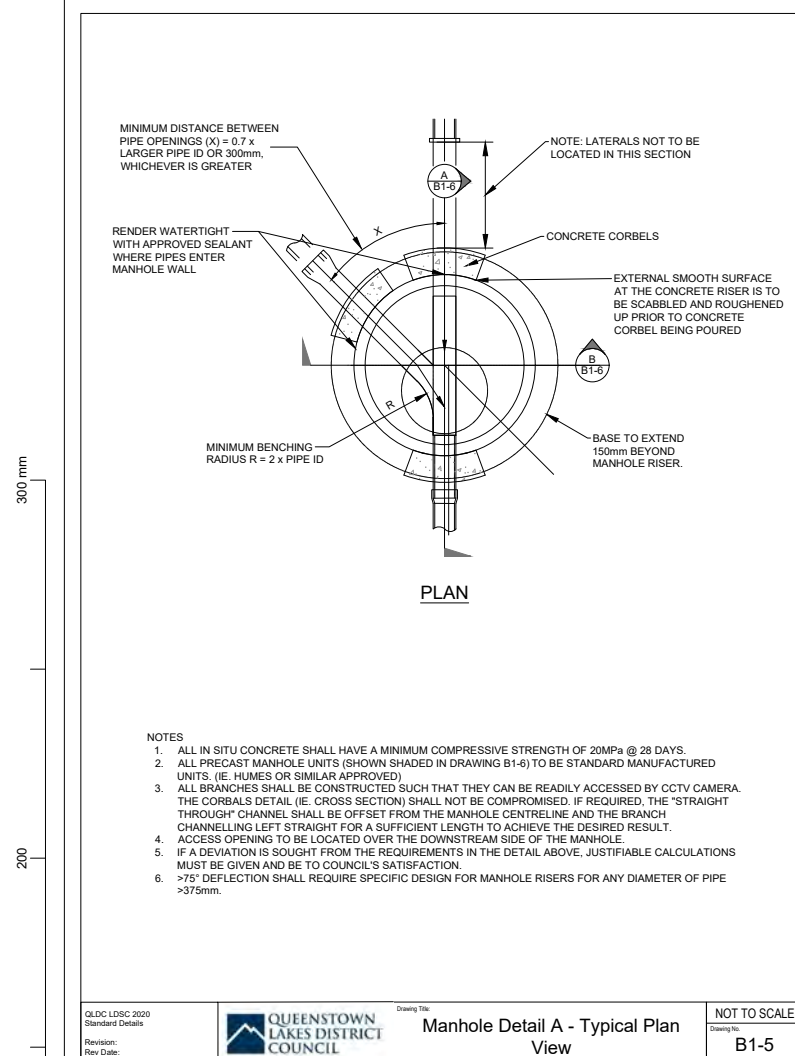
REVISION	AMENDMENT	APPROVED	DATE
A	PRELIMINARY DESIGN ISSUED FOR SAFETY AUDIT	S.S	2021-07-09
B	DETAILED DESIGN ISSUED FOR CLIENT APPROVAL	S.S	2021-08-30
C	DETAILED DESIGN ISSUED FOR TENDER	R.G.	2021-10-22



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Queenstown 9300
New Zealand

SCALES	DESIGNED	APPROVED	ORIGINAL SIZE
1:25 @ A1	B. MULHOLLAND	R. GILL	A1
DRAWN	DESIGNED	APPROVED	
B. MULHOLLAND	B. MULHOLLAND	R. GILL	
DRAWING VERIFIED	DESIGN VERIFIED	APPROVED DATE	
S.FORBES	S.SHERLAW	2021-07-09	

PROJECT	TITLE	WSP PROJECT NO.	PROJ-ORIG-VOL-LOC-TYPE	SHEET NO.	REVISION
QUEENSTOWN LAKES DISTRICT COUNCIL WAKATIPU ACTIVE TRAVEL WATN STAGE 2 ROUTES - ROUTE C5	TYPICAL CONSTRUCTION DETAILS	6-QX141.00	6-QX141.00-WSP-01-C5-DR	C500	C



REVISION	AMENDMENT	APPROVED	DATE
A	PRELIMINARY DESIGN ISSUED FOR SAFETY AUDIT	S.S	2021-07-09
B	DETAILED DESIGN ISSUED FOR CLIENT APPROVAL	S.S	2021-08-30
C	DETAILED DESIGN ISSUED FOR TENDER	R.G.	2021-10-22

QUEENSTOWN LAKES DISTRICT COUNCIL

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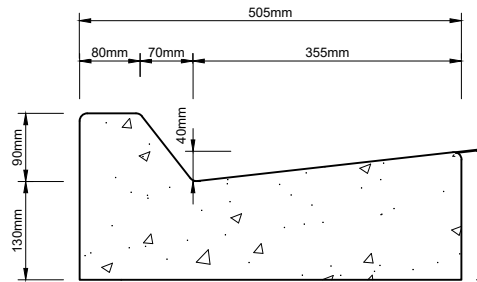
SCALE	DESIGNED	APPROVED
N.T.S	B. MULHOLLAND	R. GILL
ORIGINAL SIZE A1	S. FORBES	S. SHERLAW

PROJECT
QUEENSTOWN LAKES DISTRICT COUNCIL
WAKATIPU ACTIVE TRAVEL
WATN STAGE 2 ROUTES - ROUTE C5

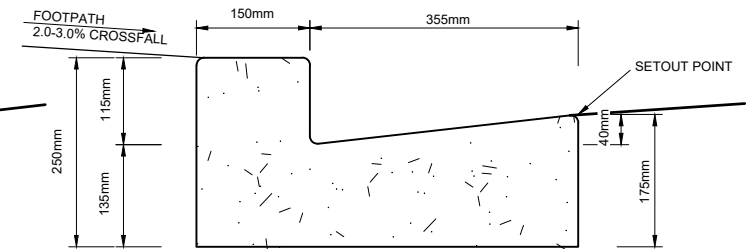
TITLE
TYPICAL CONSTRUCTION DETAILS
QLDC LDSC 2020 APPENDIX B - STD CONSTRUCTION DRAWINGS

WSP PROJECT NO. 6-XQ141.00
 PROJ-ORIG-VOL-LOC-TYPE 6-XQ141.00-WSP-01-C5-DR
 SHEET NO. C501
 REVISION C

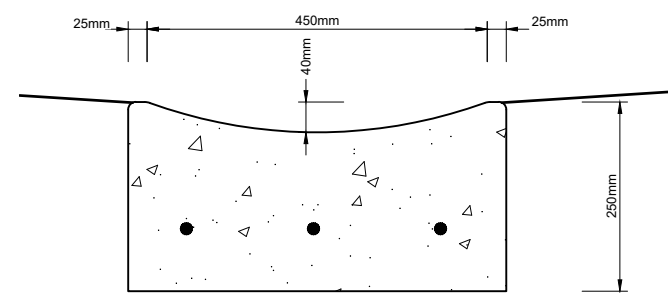
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200
100
50
0 10 mm



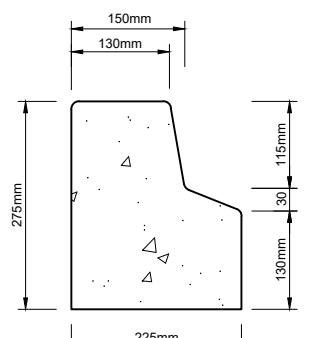
No. 8. - MOUNTABLE KERB AND CHANNEL



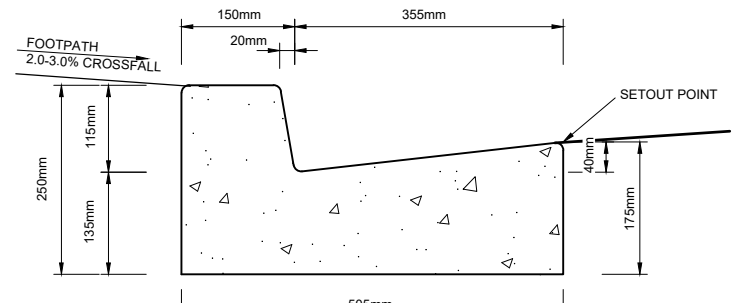
No.1 KERB AND CHANNEL



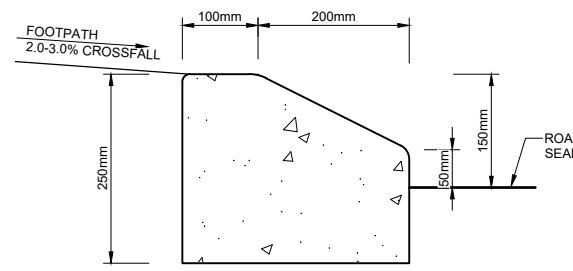
No. 16B - DISH CHANNEL
COMMERCIAL VEHICLE CROSSING



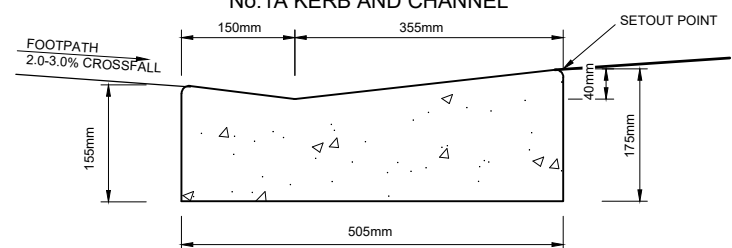
No. 3. - NIB KERB



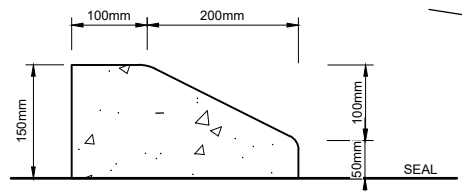
No. 1A KERB AND CHANNEL



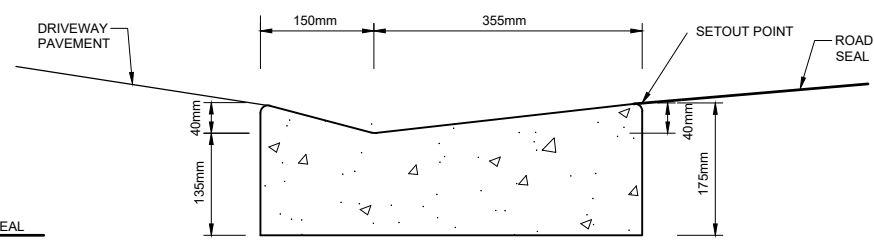
No. 5. - MOUNTABLE KERB



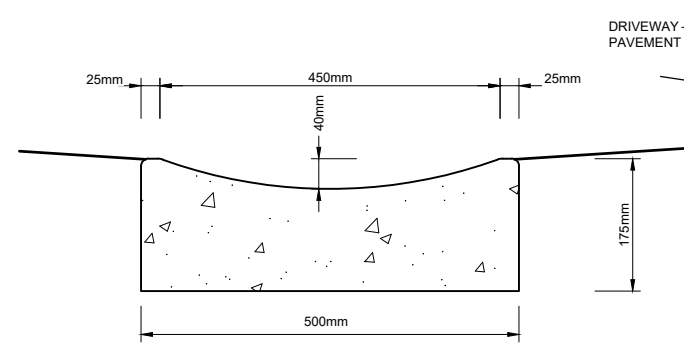
No. 1B - CUT DOWN PEDESTRIAN RAMP KERB



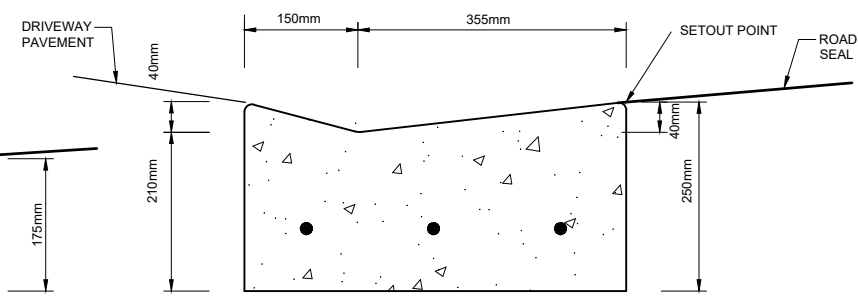
No. 5B. - MOUNTABLE KERB



No. 2. - VEHICLE CROSSING - RESIDENTIAL



No. 16. - DISH CHANNEL



No. 2A. - COMMERCIAL VEHICLE CROSSING

KERBING DETAILS
Scale: 1:5 (A1)

- KERBING NOTES:**
- CONCRETE KERB GRADES:
 - IN-SITU KERB 20MPa
 - PRECAST BLOCKS 20 MPa
 - EXTRUDED KERB (SLIP FORM) 25 MPa
 - KERB AND CHANNEL TO HAVE 200mm MINIMUM DEPTH OF COMPACTED AP40 BASECOURSE OR GAP 65 SUBBASE UNDER KERB
 - ALL RADII TO BE 10mm MIN.
 - DIMENSIONS ARE IN MILLIMETRES.

REVISION	AMENDMENT	APPROVED	DATE
A	PRELIMINARY DESIGN ISSUED FOR SAFETY AUDIT	S.S	2021-07-09
B	DETAILED DESIGN ISSUED FOR CLIENT APPROVAL	S.S	2021-08-30
C	DETAILED DESIGN ISSUED FOR TENDER	R.G.	2021-10-22



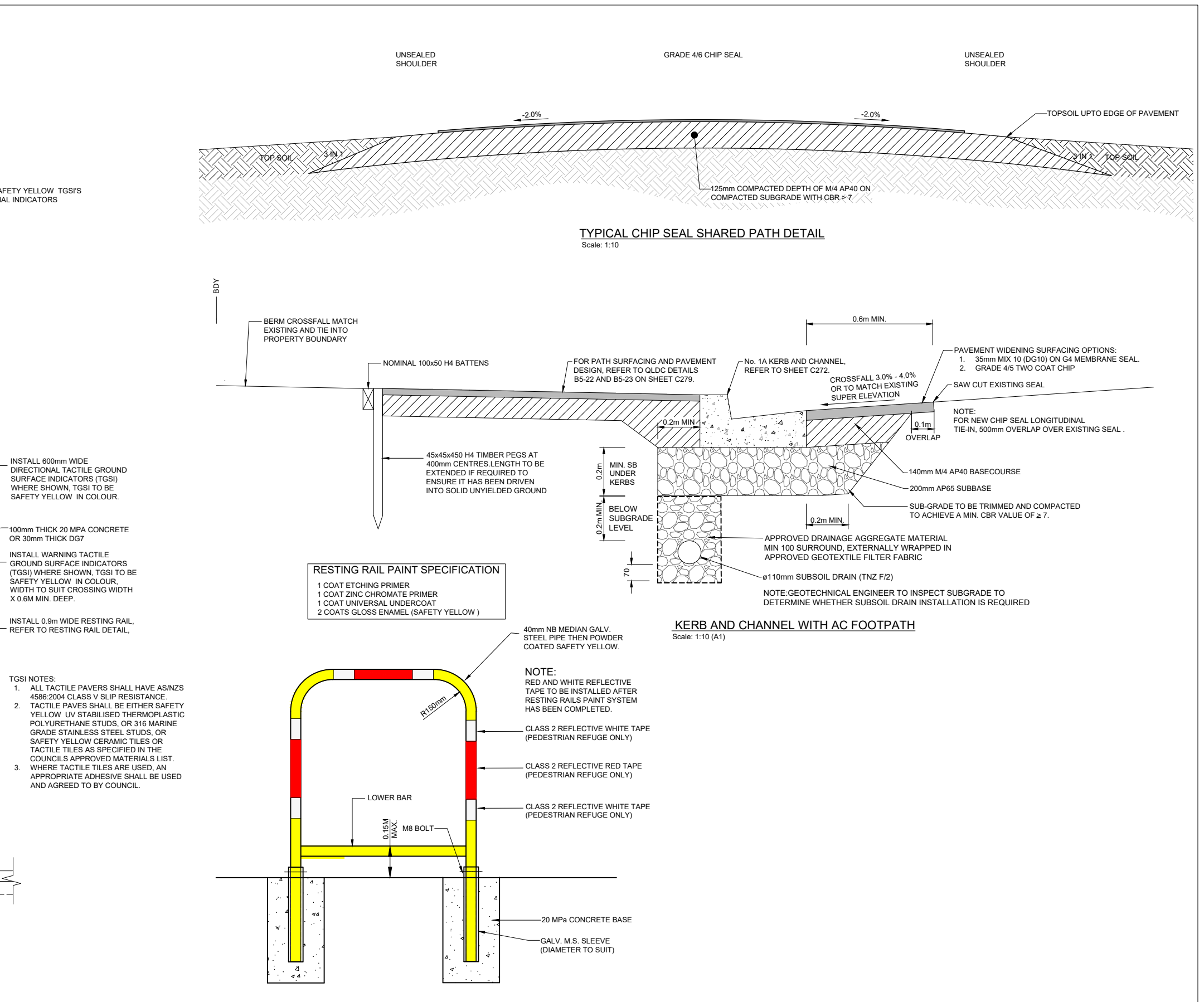
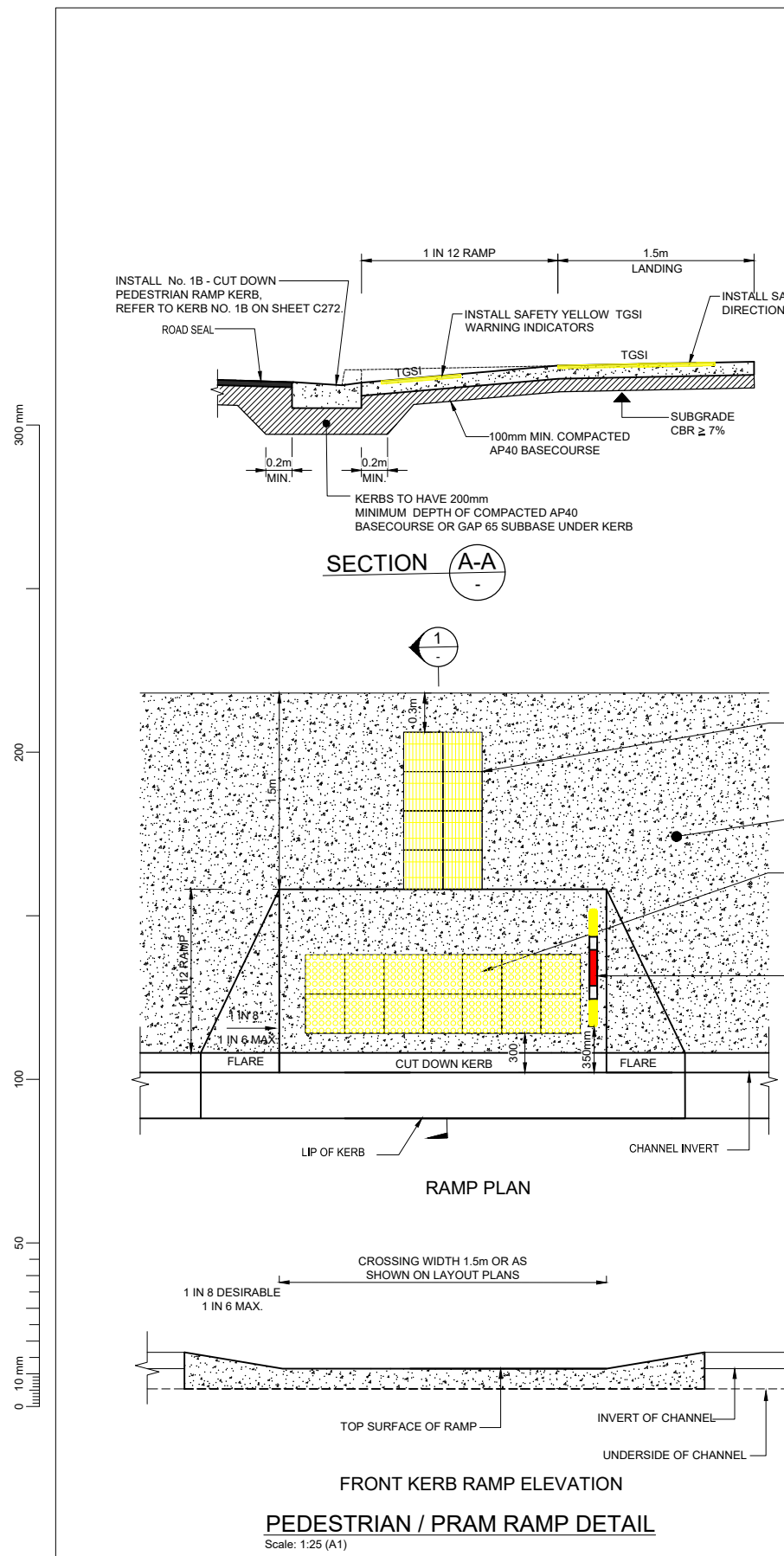
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New Zealand

CIVIL

SCALES	DESIGNED	APPROVED	ORIGINAL SIZE
1:5 @ A1	B. MULHOLLAND	R. GILL	A1
DRAWN	DESIGNED	APPROVED	
B. MULHOLLAND	B. MULHOLLAND	R. GILL	
DRAWING VERIFIED	DESIGN VERIFIED	APPROVED DATE	
S.FORBES	S.SHERLAW	2021-07-09	

FOR TENDER

PROJECT			
QUEENSTOWN LAKES DISTRICT COUNCIL WAKATIPU ACTIVE TRAVEL WATN STAGE 2 ROUTES - ROUTE C5			
TITLE			
TYPICAL CONSTRUCTION DETAILS			
WSP PROJECT NO.	PROJ-ORIG-VOL-LOC-TYPE	SHEET NO.	REVISION
6-QX141.00	6-QX141.00-WSP-01-C5-DR	C502	C



REVISION	AMENDMENT	APPROVED	DATE
A	PRELIMINARY DESIGN ISSUED FOR SAFETY AUDIT	S.S	2021-07-09
B	DETAILED DESIGN ISSUED FOR CLIENT APPROVAL	S.S	2021-08-30
C	DETAILED DESIGN ISSUED FOR TENDER	R.G.	2021-10-22

SCALES	ORIGINAL SIZE
AS SHOWN	A1

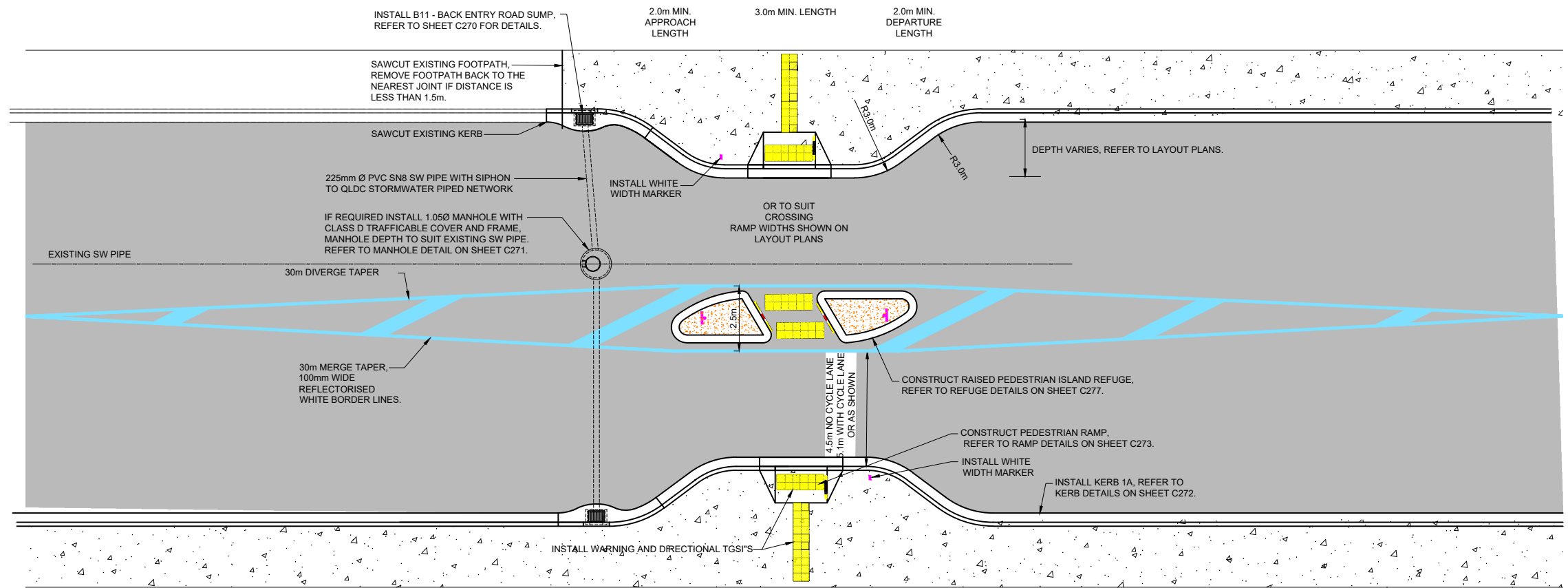
DRAWN	DESIGNED	APPROVED
B. MULHOLLAND	B. MULHOLLAND	R. GILL

DRAWING VERIFIED	DESIGN VERIFIED	APPROVED DATE
S.FORBES	S.SHERLAW	2021-07-09

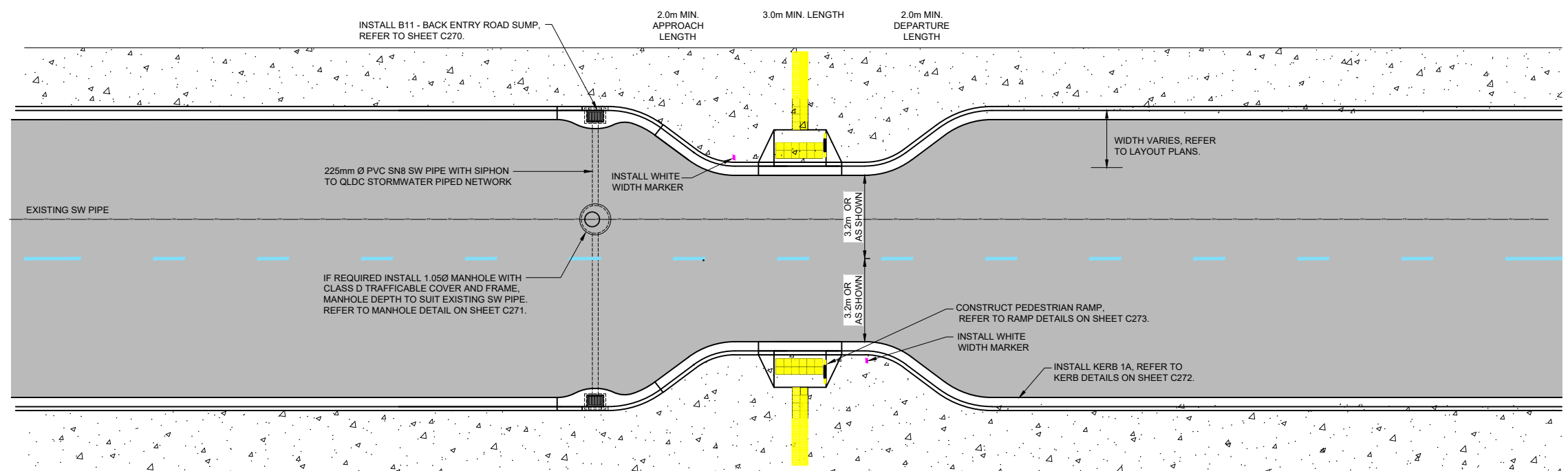
PROJECT	TITLE
QUEENSTOWN LAKES DISTRICT COUNCIL WAKATIPU ACTIVE TRAVEL WATN STAGE 2 ROUTES - ROUTE C5	TYPICAL CONSTRUCTION DETAILS

WSP PROJECT NO.	PROJ-ORIG-VOL-LOC-TYPE	SHEET NO.	REVISION
6-QX141.00	6-QX141.00-WSP-01-C5-DR	C503	C

300 mm
200
100
50
0 10 mm



CROSSING POINT LAYOUT WITH REFUGE AND KERB EXTENSION
Scale: 1:40 (A1)



ROAD NARROWING WITH CROSSING POINT
Scale: 1:40 (A1)

REVISION	AMENDMENT	APPROVED	DATE
A	PRELIMINARY DESIGN ISSUED FOR SAFETY AUDIT	S.S	2021-07-09
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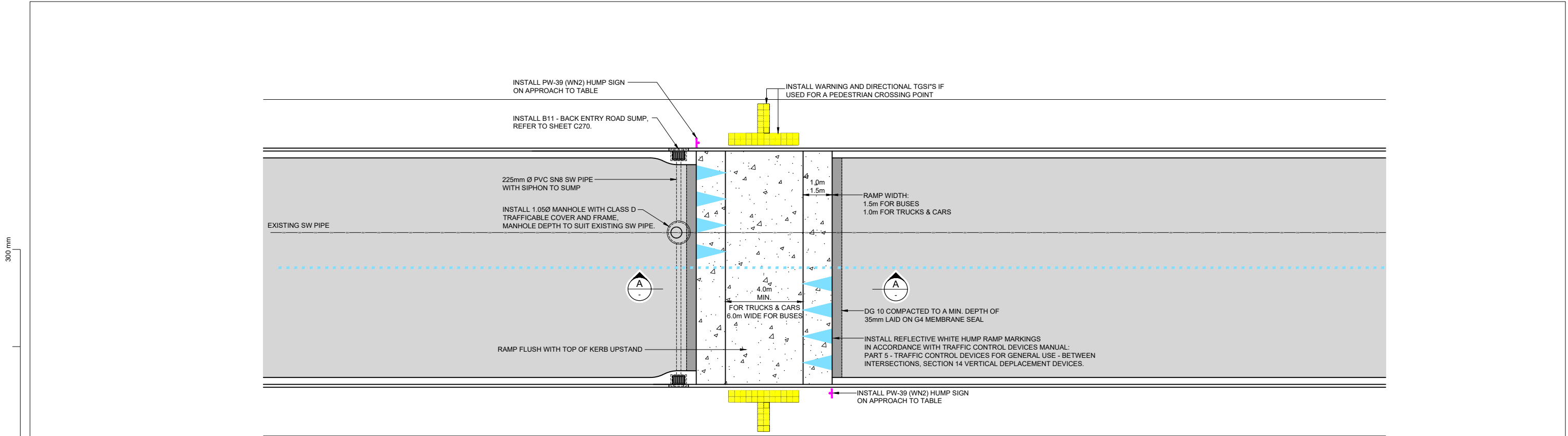
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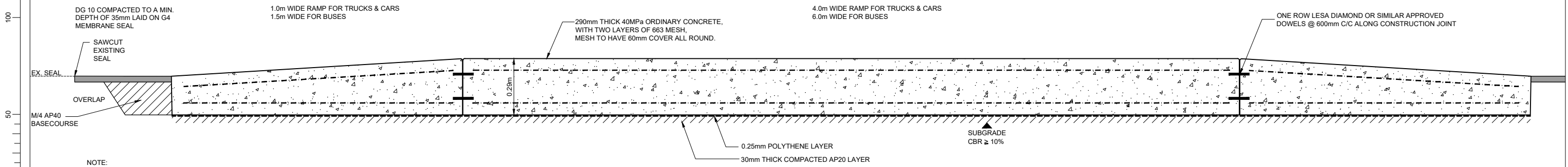
SCALES		ORIGINAL SIZE
1:40 @ A1		A1
DRAWN	DESIGNED	APPROVED
B. MULHOLLAND	B. MULHOLLAND	R. GILL
DRAWING VERIFIED	DESIGN VERIFIED	APPROVED DATE
S.FORBES	S.SHERLAW	2021-07-09

FOR TENDER

PROJECT			
QUEENSTOWN LAKES DISTRICT COUNCIL WAKATIPU ACTIVE TRAVEL WATN STAGE 2 ROUTES - ROUTE C5			
TITLE			
TYPICAL CONSTRUCTION DETAILS PEDESTRIAN CROSSING POINT AND ROAD NARROWING LAYOUTS			
WSP PROJECT NO.	PROJ-ORIG-VOL-LOC-TYPE	SHEET NO.	REVISION
6-XQ141.00	6-XQ141.00-WSP-01-C5-DR	C504	C



LAYOUT PLAN
Scale: 1:100 (A1)



CROSS SECTION A-A
Scale: 1:10 (A1)

- NOTE:
1. ALL WORK TO HAVE A TOLERANCE OF ±5mm.
 2. REINFORCING TO BE PLACED ON SPACERS
 3. ENGINEER TO INSPECT REINFORCING BEFORE CONCRETE PLACEMENT.

REVISION	AMENDMENT	APPROVED	DATE
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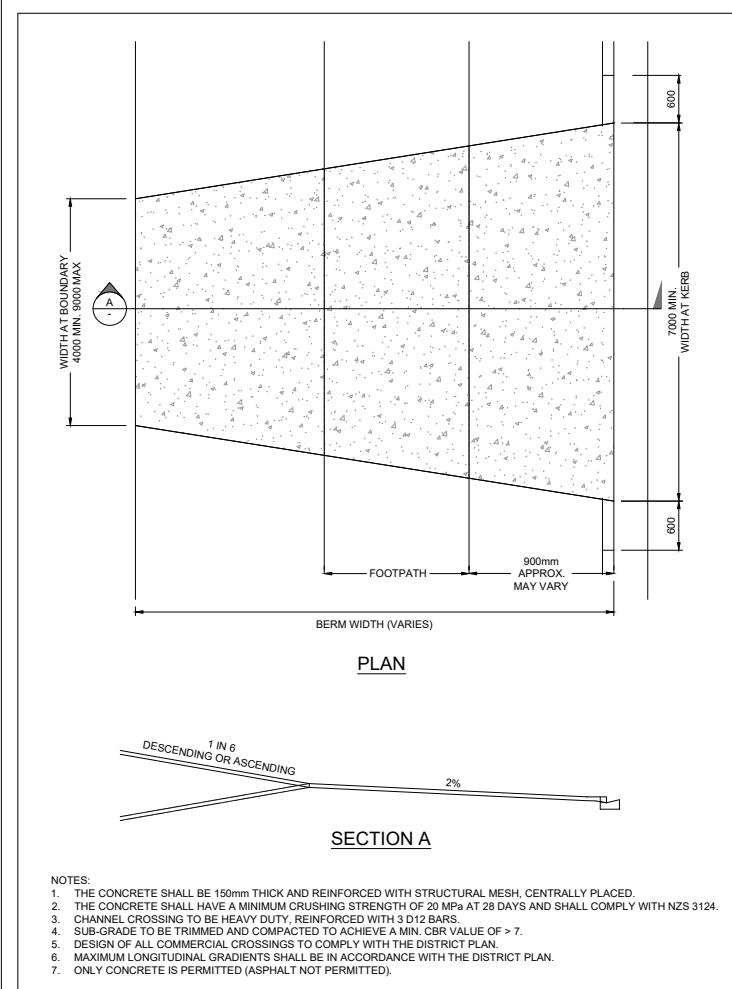
CIVIL

SCALES		ORIGINAL SIZE
AS SHOWN		A1
DRAWN	DESIGNED	APPROVED
B. MULHOLLAND	B. MULHOLLAND	R. GILL
DRAWING VERIFIED	DESIGN VERIFIED	APPROVED DATE
S. FORBES	S. SHERLAW	2021-07-09

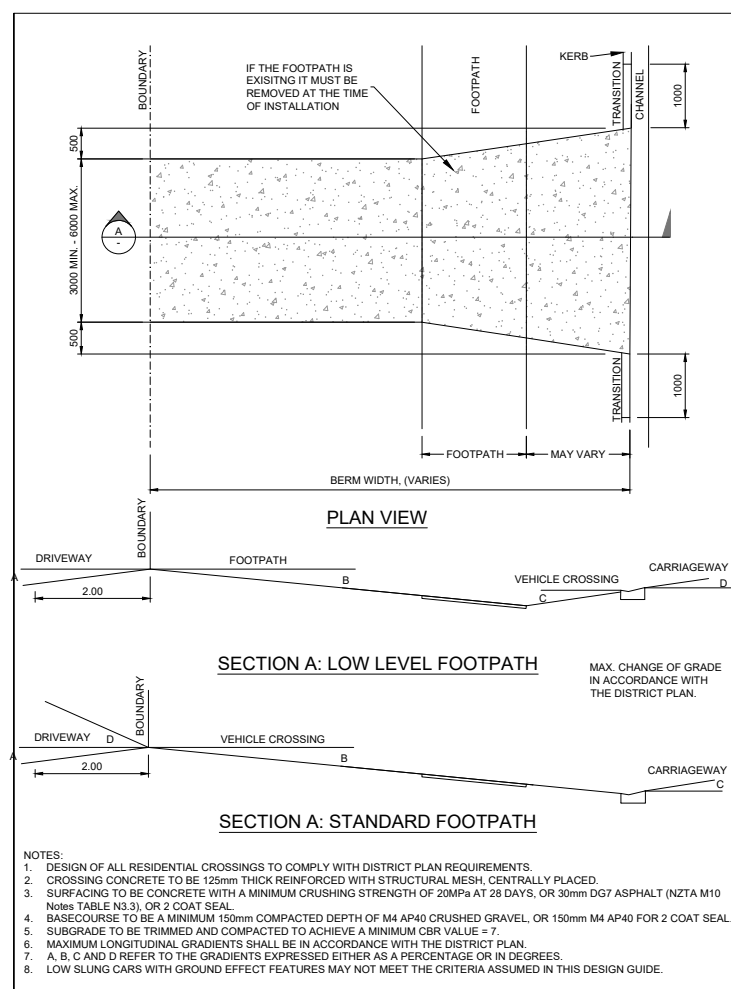
FOR TENDER

PROJECT			
QUEENSTOWN LAKES DISTRICT COUNCIL			
WAKATIPU ACTIVE TRAVEL			
WATN STAGE 2 ROUTES - ROUTE C5			
TITLE			
TYPICAL CONSTRUCTION DETAILS			
SPEED TABLE / RAISED PLATFORM DETAILS			
WSP PROJECT NO.	PROJ-ORIG-VOL-LOC-TYPE	SHEET NO.	REVISION
6-QX141.00	6-QX141.00-WSP-01-C5-DR	C505	C

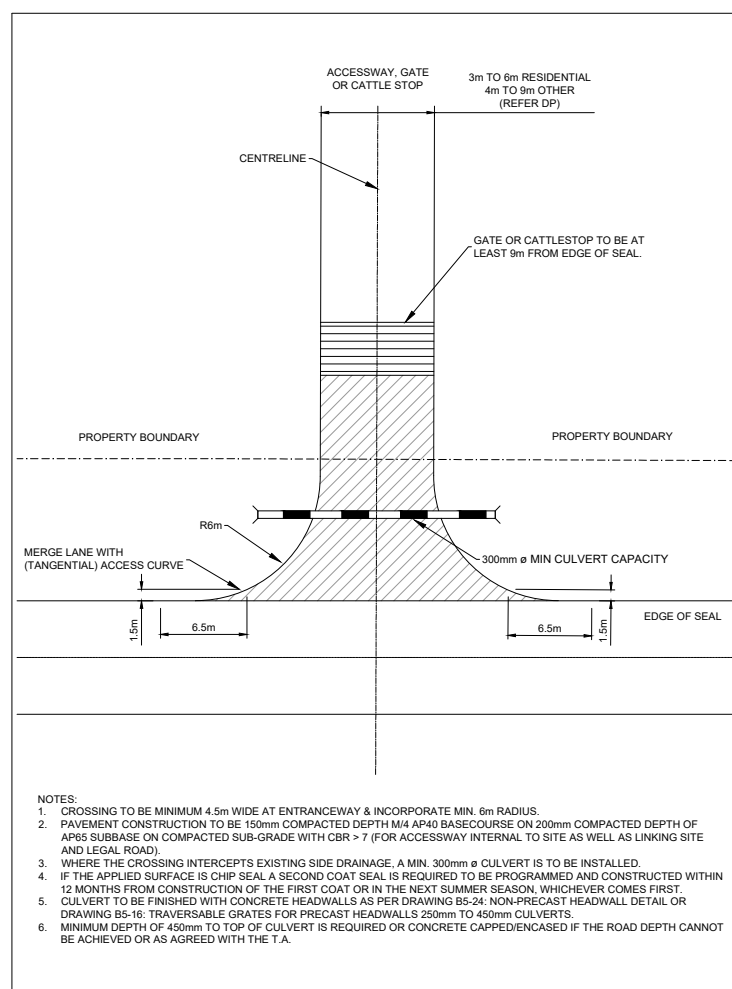
300 mm
200
100
0 10 mm



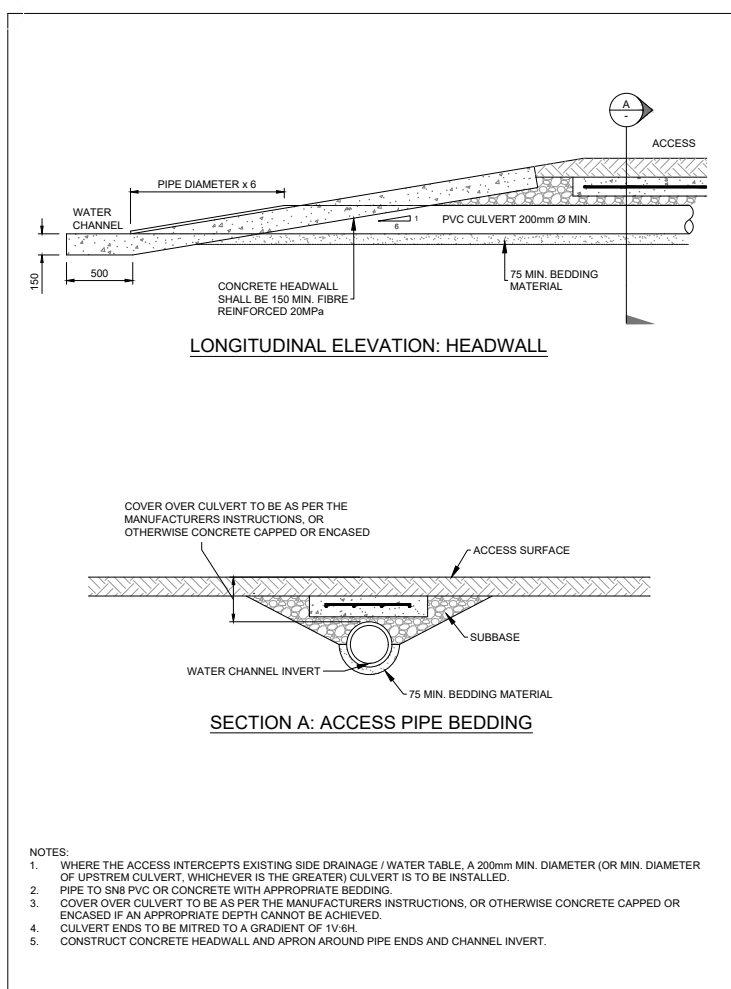
QLDC LDSC 2020 Standard Details
 Drawing Title: **Vehicle Crossing - Commercial / Industrial**
 NOT TO SCALE
 Drawing Code: **B5-19**



QLDC LDSC 2020 Standard Details
 Drawing Title: **Vehicle Crossing - Residential**
 NOT TO SCALE
 Drawing Code: **B5-18**



QLDC LDSC 2020 Standard Details
 Drawing Title: **Private Rural Access**
 NOT TO SCALE
 Drawing Code: **B5-20**



QLDC LDSC 2020 Standard Details
 Drawing Title: **Non-Precast Headwall Detail for Culvert Under Access**
 NOT TO SCALE
 Drawing Code: **B5-21**

REVISION	AMENDMENT	APPROVED	DATE
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C	DETAILED DESIGN ISSUED FOR TENDER	R.G.	2021-10-22

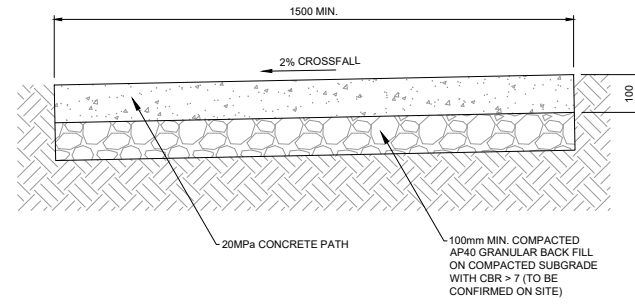


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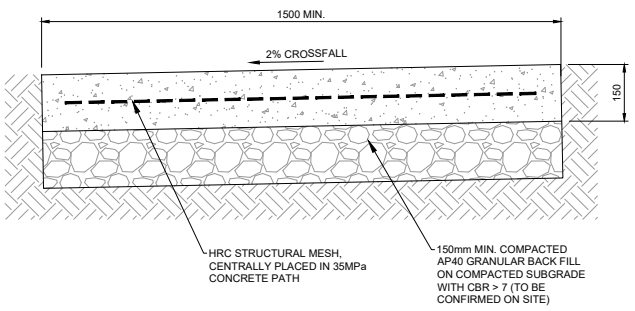
SCALES		ORIGINAL SIZE
N.T.S		A1
DRAWN	DESIGNED	APPROVED
B. MULHOLLAND	B. MULHOLLAND	R. GILL
DRAWING VERIFIED	DESIGN VERIFIED	APPROVED DATE
S.FORBES	S.SHERLAW	2021-07-09

PROJECT			
QUEENSTOWN LAKES DISTRICT COUNCIL WAKATIPU ACTIVE TRAVEL WATN STAGE 2 ROUTES - ROUTE C5			
TITLE			
TYPICAL CONSTRUCTION DETAILS QLDC LDSC 2020 APPENDIX B - STD CONSTRUCTION DRAWINGS			
WSP PROJECT NO.	PROJ-ORIG-VOL-LOC-TYPE	SHEET NO.	REVISION
6-XQ141.00	6-XQ141.00-WSP-01-C5-DR	C507	C

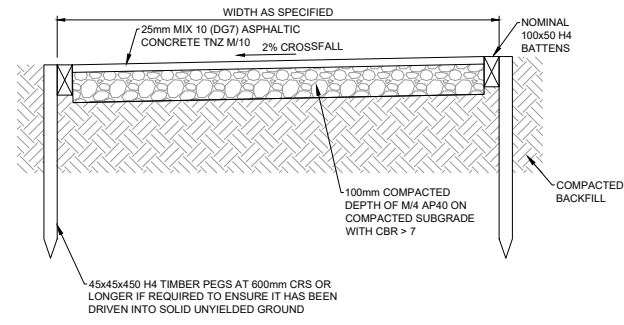
300 mm
200
100
0 10 mm



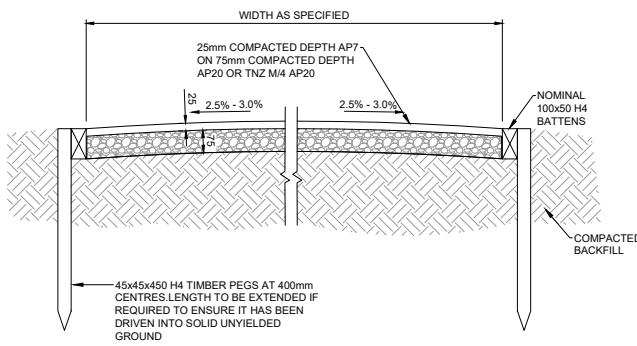
CONCRETE FOOTPATH



HEAVY DUTY CONCRETE FOOTPATH

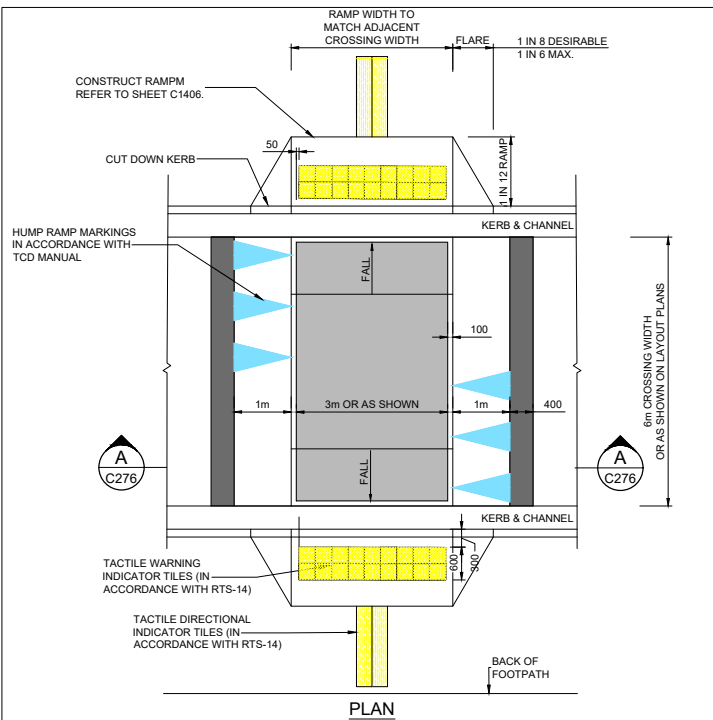


ASPHALT FOOTPATH



GRITTED FOOTPATH

- NOTES:
1. RE. MIN. CBR OF 7 REQUIRED AND SUBBASE OF 75mm.
 2. CROSSFALLS TO BE NOMINALLY 3% (CROWNED OR CONTINUOUS CROSSFALLS AS SPECIFIED).
 3. SUBGRADE & METALCOURSE TO BE TREATED WITH APPROVED SOIL STERILANT.
 4. PEGS CAN BE CUT OFF AT AN ANGLE, FLUSH WITH BOXING ON SIDE AND MINIMUM 5mm DOWN ON THE OTHER.
 5. TRACKS AND TRAILS TO BE DESIGNED AND BUILT AS PER THE QLDC TRACKS AND TRAILS DESIGN GUIDE.



PLAN

QLDC LDSC 2020 Standard Details Drawing Title: **Heavy Duty Footpath** NOT TO SCALE Drawing: **B5-22**

QLDC LDSC 2020 Standard Details Drawing Title: **Footpath - Asphalt & Gritted Detail** NOT TO SCALE Drawing: **B5-23**

QLDC LDSC 2020 Standard Details Drawing Title: **Pedestrian Crossing Detail** NOT TO SCALE Drawing: **B5-24**

REVISION	AMENDMENT	APPROVED	DATE
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C	DETAILED DESIGN ISSUED FOR TENDER	R.G.	2021-10-22



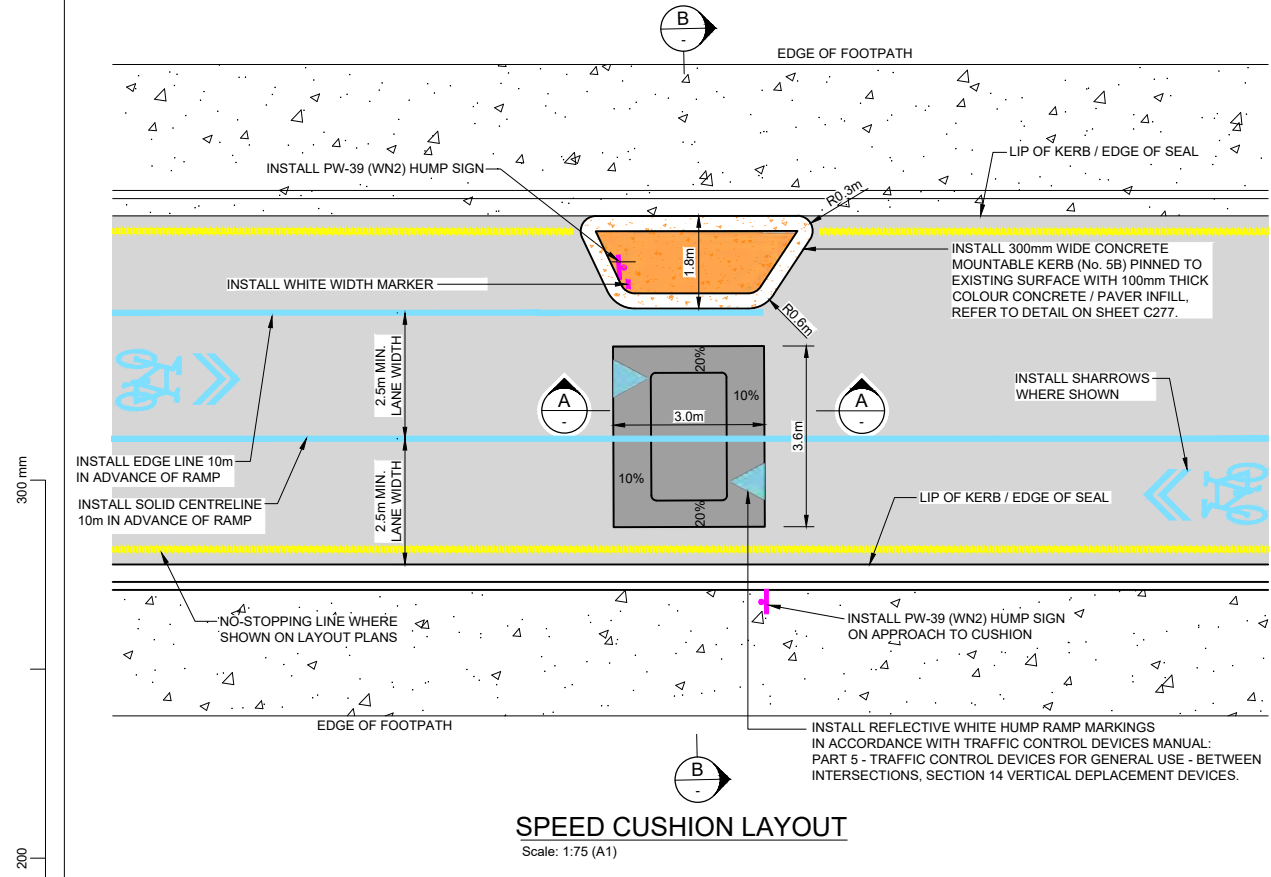
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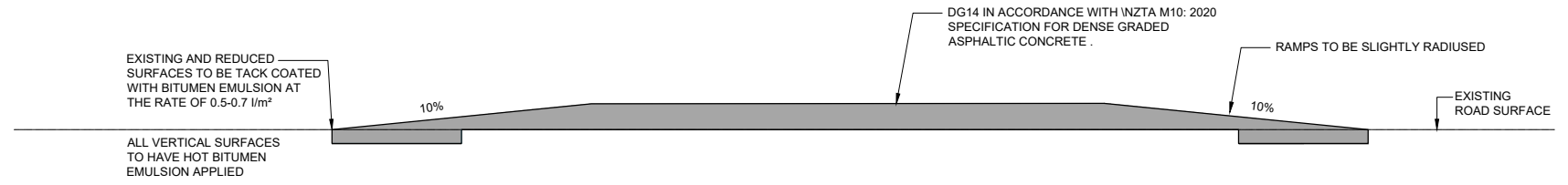
SCALES		ORIGINAL SIZE
N.T.S		A1
DRAWN	DESIGNED	APPROVED
B. MULHOLLAND	B. MULHOLLAND	R. GILL
DRAWING VERIFIED	DESIGN VERIFIED	APPROVED DATE
S.FORBES	S.SHERLAW	2021-07-09

FOR TENDER

PROJECT			
QUEENSTOWN LAKES DISTRICT COUNCIL			
WAKATIPU ACTIVE TRAVEL			
WATN STAGE 2 ROUTES - ROUTE C5			
TITLE			
TYPICAL CONSTRUCTION DETAILS			
QLDC LDSC 2020 APPENDIX B - STD CONSTRUCTION DRAWINGS			
WSP PROJECT NO.	PROJ-ORIG-VOL-LOC-TYPE	SHEET NO.	REVISION
6-QX141.00	6-QX141.00-WSP-01-C5-DR	C508	C

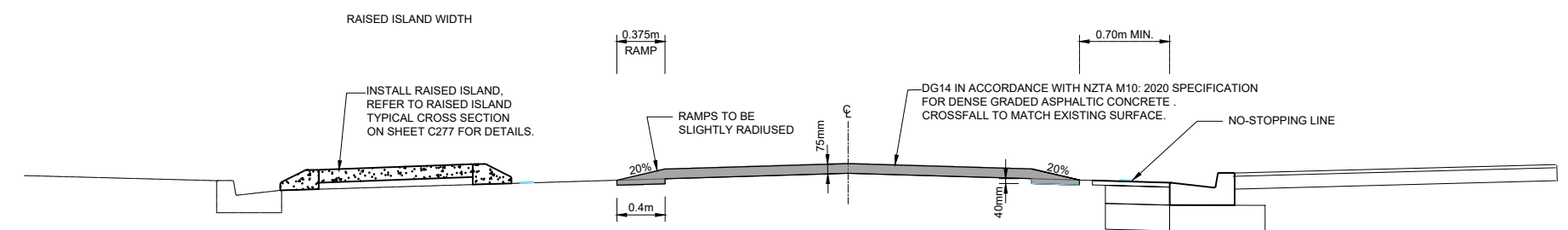


SPEED CUSHION LAYOUT
Scale: 1:75 (A1)



(ASPHALTIC CONCRETE CUSHION)

CROSS SECTION A-A
Scale: 1:10 (A1)



(ASPHALTIC CONCRETE CUSHION)

CROSS SECTION B-B
Scale: 1:25 (A1)

- NOTES:**
1. THESE DETAILS APPLIES TO CUSHIONS IN ROADS OF WIDTH 6.0m TO 7.0m UNLESS OTHERWISE STATED BY THE ENGINEER.
 2. MAXIMUM HEIGHT OF CUSHIONS TO BE 75mm ABOVE EXISTING ROAD SURFACE WITHIN TOLERANCE OF +/- 5mm
 3. LATERAL GAPS BETWEEN CUSHIONS AND KERBS TO BE AGREED WITH QLDC.
 4. CROSS SECTIONAL PROFILE B-B OF SPEED CUSHION TO BE SAME AS EXISTING PROFILE OF ROAD.
 5. ALL ROAD MARKINGS TO BE IN ACCORDANCE WITH MANUAL OF TRAFFIC SIGNS AND MARKINGS AND TCD MANUAL UPDATES TO MOTSAM

REVISION	AMENDMENT	APPROVED	DATE
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C	DETAILED DESIGN ISSUED FOR TENDER	R.G.	2021-10-22



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SCALES		ORIGINAL SIZE
AS SHOWN		A1
DRAWN	DESIGNED	APPROVED
B. MULHOLLAND	B. MULHOLLAND	R. GILL
DRAWING VERIFIED	DESIGN VERIFIED	APPROVED DATE
S.FORBES	S.SHERLAW	2021-07-09

FOR TENDER

PROJECT			
QUEENSTOWN LAKES DISTRICT COUNCIL WAKATIPU ACTIVE TRAVEL WATN STAGE 2 ROUTES - ROUTE C5			
TITLE			
TYPICAL CONSTRUCTION DETAILS SPEED CUSHIONS			
WSP PROJECT NO.	PROJ-ORIG-VOL-LOC-TYPE	SHEET NO.	REVISION
6-QX141.00	6-QX141.00-WSP-01-C5-DR	C1004	C

GENERAL:

1. READ STRUCTURAL DRAWINGS WITH ALL OTHER CONTRACT DRAWINGS AND THE SPECIFICATIONS AND DESIGN STATEMENT. NOTIFY ANY DISCREPANCY AND OBTAIN WRITTEN INSTRUCTION BEFORE PROCEEDING.
2. CONTRACTOR TO CONFIRM LOCATION AND LEVEL OF SERVICES PRIOR TO PILING/EXCAVATION WORKS. NOTIFY ANY CONFLICTS WITH THE DESIGNED WORKS AND OBTAIN WRITTEN INSTRUCTION BEFORE PROCEEDING.
3. CHECK AND VERIFY EXISTING DIMENSIONS AND LEVELS ON-SITE BEFORE COMMENCING CONSTRUCTION, ORDERING MATERIALS OR OFF-SITE FABRICATION.
4. ALL GRADE 500E REINFORCEMENT SHALL COMPLY WITH AS/NZS 4671 AND BE MANUFACTURED USING THE MICRO ALLOY PROCESS. QUENCH AND TEMPERED STEEL SHALL NOT BE USED ON THIS PROJECT.
5. ALL EXISTING WORK TO BE MADE GOOD ON COMPLETION OF STRUCTURAL WORK.
6. CONTRACTOR TO PROVIDE NO LESS THAN 48 HOURS NOTICE PRIOR TO REQUIRING AN INSPECTION OF THE SELECTED CONSTRUCTION WORKS.
7. METRIC DIMENSIONING - THROUGHOUT THIS SET OF DRAWINGS THE FOLLOWING SET OF RULES APPLY:
 - ALL DIMENSIONS ARE IN MILLIMETERS UNLESS NOTED OTHERWISE.
 - DESCRIPTIONS WITH SINGLE MEASUREMENTS HAVE mm SYMBOLS. e.g. 25mm CENTRES.
 - DESCRIPTIONS WITH TWO OR MORE MEASUREMENTS HAVE NO mm SYMBOLS e.g. 900 x 300 BEAM.

FOUNDATIONS:

1. FOLLOWING GEOTECHNICAL REPORTS HAVE BEEN PREPARED FOR THIS PROJECT BY WSP:
 - a. STAGE 2 – PRELIMINARY GEOTECHNICAL ASSESSMENT REPORT (9 OCTOBER 2020)
 - b. STAGE 2 – GEOTECHNICAL INTERPRETIVE REPORT (5 FEBRUARY 2021)
2. GEOTECHNICAL INVESTIGATION INFORMATION SPECIFIC TO THE STRUCTURES INCLUDED IN THIS DRAWING SET IS APPENDED TO THE DESIGN FEATURES REPORT.
3. SIZES AND DETAILS ARE BASED ON GROUND CONDITION ASSUMPTIONS NOTED ON DRAWINGS. IF CONDITIONS DIFFER TO THOSE STATED, THE CONTRACTOR MUST NOTIFY THE ENGINEER.
4. PROOF BORE IS REQUIRED AT ROBBINS ROAD BRIDGE, HORNE CREEK CULVERT AND GORGE ROAD BOARDWALK TO CONFIRM GROUND CONDITIONS AT FOUNDING DEPTH. THE ENGINEER SHALL OBSERVE THE PROOF BORE TO CONFIRM FOUNDATION SIZES AND DETAILS ARE APPROPRIATE PRIOR TO CONSTRUCTION AND ORDERING OF MATERIALS.
5. CONTRACTOR MUST VERIFY GROUND CONDITIONS DURING FOUNDATION EXCAVATION AND REPORT TO THE ENGINEER.

CONCRETE WORK:

1. ALL MATERIALS AND WORKMANSHIP SHALL BE IN ACCORDANCE WITH NZS 3109 SUBJECT TO RELEVANT SECTIONS OF THE SPECIFICATION.
2. ALL GRADE 500E REINFORCEMENT SHALL COMPLY WITH AS/NZS 4671 AND BE MANUFACTURED USING THE MICRO ALLOY PROCESS. QUENCH AND TEMPERED STEEL SHALL NOT BE USED ON THIS PROJECT.
3. CONCRETE STRENGTHS:

SITE CONCRETE	=	10 MPa
CONCRETE FOOTINGS	=	20 MPa
CONCRETE CAPPING BEAM	=	30 MPa
PRECAST CONCRETE	=	40 MPa
ALL OTHER CONCRETE	=	30 MPa

STRUCTURAL STEELWORK:

1. ALL MATERIALS AND WORKMANSHIP SHALL BE IN ACCORDANCE WITH NZS 3404 SUBJECT TO RELEVANT SECTIONS OF THE SPECIFICATION.
2. READ STRUCTURAL STEELWORK DRAWINGS IN CONJUNCTION WITH ALL OTHER CONTRACT DRAWINGS. ALLOW FOR ALL HOLES, CLEATS, FIXINGS, ETC. AND INDICATE ON SHOP FABRICATION DRAWINGS.
3. STRUCTURAL STEELWORK DRAWINGS SHOW THE STRUCTURAL DESIGN INTENT. SHOP FABRICATION DRAWINGS ARE THE CONTRACTORS RESPONSIBILITY. CONTRACTOR TO PROVIDE SHOP DRAWINGS TO THE STRUCTURAL DESIGN ENGINEER FOR REVIEW PRIOR TO FABRICATION.
4. ALL BOLTS TO BE COMMERCIAL STEEL BOLTS CLASS 8.8/S TO SPECIFICATION UNLESS NOTED OTHERWISE.
5. CONTRACTOR TO PROVIDE THE STEEL MILL TEST CERTIFICATES FOR ALL STRUCTURAL STEEL TO THE STRUCTURAL DESIGN ENGINEER FOR REVIEW PRIOR TO FABRICATION.
6. STEEL COMPLIANCE - IF THE CONTRACTOR PROPOSES TO SOURCE STRUCTURAL STEEL OUTSIDE OF NEW ZEALAND OR AUSTRALIA THEN THE CONTRACTOR MUST ENSURE THAT THE PRODUCTION MILL AND THE LABORATORY ARE A.C.R.S. ACCREDITED. THE OVERSEAS TESTING LABORATORY MUST ALSO BE A MEMBER OF THE SOURCING COUNTRY'S LOCAL I.L.A.C. M.R.A. CERTIFICATION SCHEME.

WHERE THE ABOVE IS NOT POSSIBLE, ADDITIONAL QUALITY ASSURANCE TESTING WILL BE REQUIRED IN NEW ZEALAND BY AN I.A.N.Z. ACCREDITED LABORATORY. CONTRACTOR TO NOTIFY THE STRUCTURAL DESIGN ENGINEER IF THIS IS THE CASE PRIOR TO SOURCING ANY STEEL.
7. ALL STEELWORK SHALL BE SURFACE PROTECTIVE TREATED AFTER FABRICATION. REFER TO SPECIFICATION.
8. ALL BOLTS, NUTS AND WASHERS, INCLUDING HOLDING-DOWN BOLTS TO BE IN ACCORDANCE WITH THE SPECIFICATION.
9. ALL STRUCTURAL STEEL WELDING SHALL COMPLY WITH AS/NZS 1554 CLASS S.P. ALL WELDS TO BE 6mm MINIMUM CONTINUOUS FILLET WELDS (6FWAR), U.N.O. COMPLETE TESTING AS OUTLINED IN THE SPECIFICATION OR MINIMUM TO AS/NZS 5131 APPENDIX I.
10. ALL HOLLOW SECTIONS TO BE CAPPED AND SEAL WELDED ALL ROUND TO DETAILS.
11. ALL SQUARE AND RECTANGULAR HOLLOW SECTIONS SHALL BE GRADE 350 U.N.O.
12. HOT ROLLED OPEN SECTIONS, FLATS, PLATES AND FABRICATED SECTIONS SHALL BE GRADE 300 UNLESS OTHERWISE INDICATED. REFER TO SPECIFICATION.

TIMBER:

1. ALL TIMBER TO BE MSG8 GRADE RADIATA PINE COMPLYING WITH NZS 3602 AND GRADED TO NZS 3631.
2. TIMBER TREATMENT SHALL COMPLY WITH THE REQUIREMENTS OF THE NZ TIMBER PRESERVATION COUNCIL INCORPORATING - MP 3640.
3. UNLESS SHOWN OTHERWISE GENERAL CONSTRUCTION DETAILS SHALL COMPLY WITH REQUIREMENTS OF NZS 3604.
4. PROVIDE WASHERS FOR BOLTED CONNECTIONS IN LOCATIONS AND TO SIZES REQUIRED BY NZS 3603. RE-TIGHTEN NUTS BEFORE COMMISSIONING AND ALLOW FOR ONE RE-TIGHTEN 6 TO 12 MONTHS FOLLOWING COMMISSIONING.
5. ALL NOTCHES, CUTS AND HOLES SHALL BE TREATED WITH A THICK COAT OF KOPPERS ARCH CN EMULSION OR SIMILAR APPROVED.

STANDARD ABBREVIATIONS:

ALT.	ALTERNATE
BLKWK.	BLOCKWORK
B.	BOTTOM (REINF. ONLY)
BTM.	BOTTOM (NOT REINF.)
B.O.C.	BOTTOM OF CONCRETE
C/C	CENTRE TO CENTRE
C.	CENTRAL
C.O.S.	CONFIRM ON SITE
C.J.	CONSTRUCTION JOINT
C.J.P.	COMPLETE JOINT PENETRATION
C.P.	COMPLETE PENETRATION
C.P.B.W.	COMPLETE PENETRATION BUTT WELD
CSK.	COUNTERSUNK
CVR.	COVER
db	NOMINAL BAR DIAMETER IN mm
D.	DEFORMED BARS (GRADE 300E)
DIA.	DIAMETER
Ø	DIA. (M.S. ROD ONLY)
DIM.	DIMENSION
D.P.C.	DAMP PROOF COURSE
D.P.M.	DAMP PROOF MEMBRANE
DWGS.	DRAWINGS
E.F.	EACH FACE
E.W.	EACH WAY
EXTG./ (E)	EXISTING
FDN.	FOUNDATION
F.F.	FAR FACE
F.F.L.	FINISHED FLOOR LEVEL
FL.	FLOOR
F.S.B.W.	FULL STRENGTH BUTT WELD
F.W.A.R.	FILLET WELD ALL AROUND
G.P.	GENERAL PURPOSE
HEX.	HEXAGON
H.D. GALV. / HDG	HOT DIPPED GALVANISED
H.D.	HOLDING DOWN
ID.	IDENTIFICATION
INT.	INTERNAL
I.D.	INTERNAL DIAMETER
LAR.	LAPPED AT RANDOM
LEV.	LEVEL
MIN.	MINIMUM
M.S.	MILD STEEL
NOM.	NOMINAL
N.F.	NEAR FACE
N.L.	NO LAPS
OPP.	OPPOSITE
O.D.	OUTSIDE DIAMETER
O/A	OVERALL
P.C.D.	PITCH CIRCLE DIAMETER
PROJ.N.	PROJECTION
RAD.	RADIUS
R.	PLAIN ROUND BARS (GRADE 300E)
RB.	REIDBARS (GRADE 500E)
REINF.	REINFORCING
REQD	REQUIRED
R.L.	REDUCED LEVEL
STA.	STARTER
STD.	STANDARD
S.F.L.	STRUCTURAL FLOOR LEVEL
S.L.	STRUCTURAL LEVEL
S.O.P.	SETTING OUT POINT
S.P.	STRUCTURAL PURPOSE
S.S.	STAINLESS STEEL
S.S.L.	STRUCTURAL SLAB LEVEL
T.	TOP
THK.	THICK
THRU.	THROUGH
TRM.	TRIMMER
TYP.	TYPICAL
T.O.C.	TOP OF CONCRETE
T.O.S.	TOP OF STEEL
T.O.T.	TOP OF TIMBER
T.O.W.	TOP OF WALL
T.S.L.	TOPPING SLAB LEVEL
U.N.O.	UNLESS NOTED OTHERWISE
UIS.	UNDERSIDE
V.D.	VISCOUS DAMPER
V.L.	VARYING LENGTHS
XCRS.	CROSS CENTRES
YD.	DEFORMED BARS (GRADE 500E)
YR.	ROUND BARS (GRADE 500E)
>	GREATER OR EQUAL
≤	LESS OR EQUAL



NOTE: UNLESS OTHERWISE SPECIFIED OR DETAILED ON THE DRAWINGS, THESE STANDARD NOTES SHALL APPLY. INCLUSION OF THIS SHEET DOES NOT IMPLY THAT ALL THE DETAILS OCCUR IN THIS CONTRACT.

REVISION	AMENDMENT	APPROVED	DATE
A	DETAILED DESIGN ISSUED FOR CLIENT REVIEW	R.G.	2021-08-03
B	DETAILED DESIGN ISSUED FOR CLIENT APPROVAL	R.G.	2021-08-31
C	DETAILED DESIGN ISSUED FOR TENDER	R.G.	2021-10-22



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STRUCTURAL

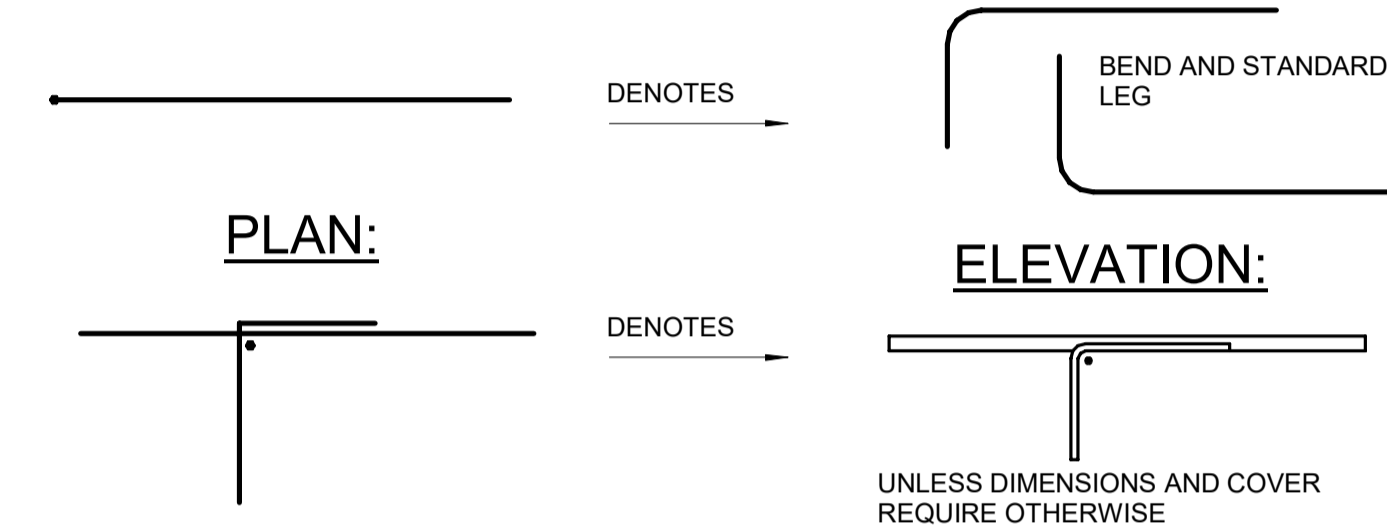
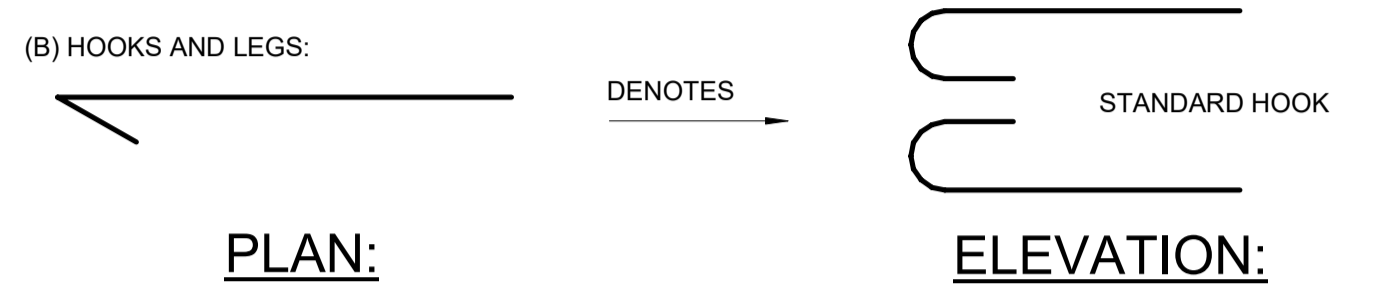
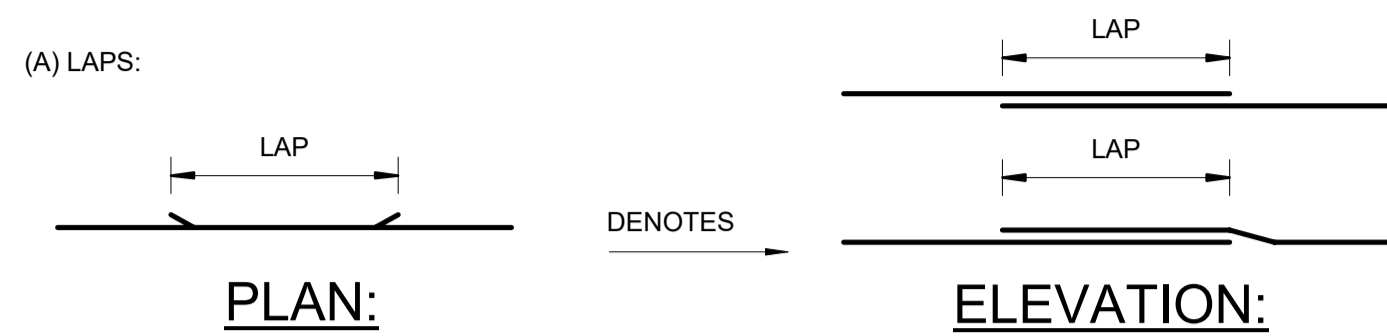
SCALE	ORIGINAL SIZE
1 : 1 @ A1	A1
DRAWN	DESIGNED
J. RUAS	C. WALLIS
	R. GILL
DRAWING VERIFIED	DESIGN VERIFIED
J. DUTTON	J. ORPWOOD
	APPROVED DATE
	2021-10-22

FOR TENDER

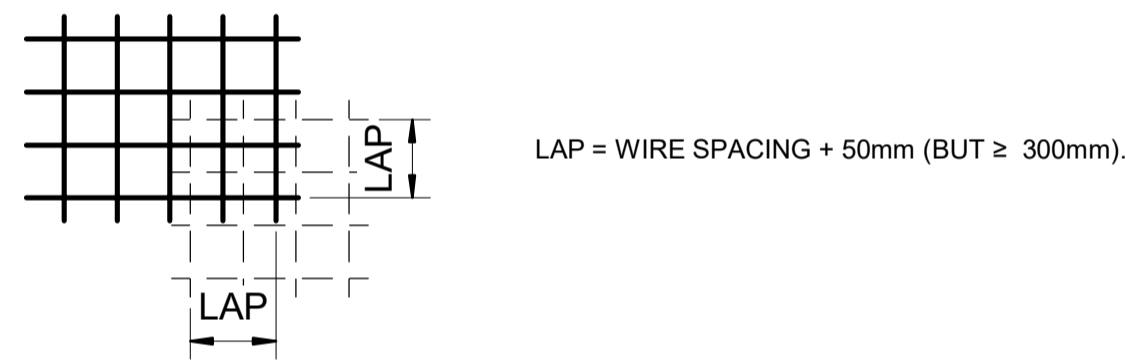
PROJECT				
QUEENSTOWN LAKES DISTRICT COUNCIL				
WAKATIPU ACTIVE TRAVEL - WATN STAGE 2 ROUTES - ROUTE C5				
TITLE				
STANDARD DETAILS AND NOTES				
GENERAL NOTES				
WSP PROJECT NO.	PROJ-ORIG-VOL-LVL-TYPE	SHEET NO.	SUITABILITY	REVISION
6-XQ141.00	6XQ141-WSP-01-XX-DR	C801	-	C

GENERAL NOTES:

- CHECK AND VERIFY SETOUT DIMENSIONS AND LEVELS ON-SITE BEFORE COMMENCING CONSTRUCTION. DETAILS ON THIS SHEET APPLY TO GRADE 300E AND 500E REINFORCING BARS TO AS/NZS 4671. CLASSES 'L' AND 'N' SHALL NOT BE USED.
- ALL GRADE 500E REINFORCEMENT SHALL COMPLY WITH AS/NZS 4671 AND BE MANUFACTURED USING THE MICRO ALLOY PROCESS. QUENCH AND TEMPERED STEEL SHALL NOT BE USED ON THIS PROJECT. REPRESENTATION OF REINFORCING BARS ON DRAWINGS:



4. REINFORCING BAR NOTATIONS:
- D12-250 DENOTES 12mm DIA. GRADE 300E DEFORMED BARS AT 250mm CRS.
 - R12-250 DENOTES 12mm DIA. GRADE 300E PLAIN ROUND BARS AT 250mm CRS.
 - YD12-250 DENOTES 12mm DIA. GRADE 500E DEFORMED BARS AT 250mm CRS.
 - YR12-250 DENOTES 12mm DIA. GRADE 500E PLAIN BARS AT 250mm CRS.
 - RB12-200 DENOTES 12mm DIA. GRADE 500E 'REIDBARS' AT 200mm CRS.
5. WELDED SMOOTH WIRE MESH REINFORCEMENT TO BE LAPPED AS SHOWN BELOW:



6. ALL EXPOSED CORNERS AND EDGES TO CONCRETE SURFACES SHALL HAVE A 20x20 CHAMFER UNLESS SHOWN OTHERWISE ON THE DRAWINGS

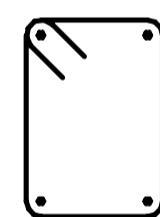
STANDARD ABBREVIATIONS

ALT.	ALTERNATE
BLKWK.	BLOCKWORK
B.	BOTTOM (REINF. ONLY)
BTM.	BOTTOM (NOT REINF.)
C.	CENTRAL
C.O.S.	CONFIRM ON SITE
C.J.	CONSTRUCTION JOINT
CVR.	COVER
db	NOM. BAR DIA. IN mm
D	DEFORMED BARS (GRADE 300E)
DIM.	DIMENSION
D.P.C.	DAMP PROOF COURSE
D.P.M.	DAMP PROOF MEMBRANE
E.F.	EACH FACE
E.W.	EACH WAY
EXTG.	EXISTING
FF.	FAIR FACE
FFL.	FINISHED FLOOR LEVEL
FL.	FLOOR
FDN.	FOUNDATION
INT.	INTERNAL
LAR.	LAPPED AT RANDOM
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STD.	STANDARD
T.	TOP
THK.	THICK
THRU.	THROUGH
TRM.	TRIMMER
HD.	DEFORMED BARS (GRADE 500E)
HR.	ROUND BARS (GRADE 500E)
TYP.	TYPICAL
U.N.O.	UNLESS NOTED OTHERWISE
U/S.	UNDERSIDE
V.L.	VARYING LENGTHS
XCRS.	CROSS CENTRES
≥	GREATER OR EQUAL
≤	LESS OR EQUAL

STIRRUPS/TIES FOR BEAMS AND COLUMNS

NOTES:

- FIRST BEAM TIE POSITION FLUSH WITH COLUMN FACE.
- ALL TIES TO BE PLAIN ROUND BARS UNLESS SPECIFICALLY NOTED.
- ALL NON WELDED BEAM TIES TO CLOSE IN TOP OF BEAMS UNLESS SPECIFICALLY NOTED.



RECTANGULAR STIRRUPS/TIES

REINFORCING LAP LENGTHS

BAR SIZE (db mm)	LAP (mm)	BAR SIZE (db mm)	LAP (mm)
HD10	650	D10	450
HD12	800	D12	500
HD16	1050	D16	650
HD20	1300	D20	800
HD25	1650	D25	1000
HD32	2100	-	-

1. THESE TABLES ARE FOR DEFORMED BARS ONLY.

2. THESE TABLES ARE BASED ON 25MPa CONCRETE WITH $\alpha_a=1.3, \alpha_b=1.0, \alpha_c=1.0$ AND $\alpha_d=1.0$.

3. WHERE THERE IS LESS THAN 300mm OF CONCRETE BENEATH THE BARS, THE TABLED LAP LENGTH MAY BE REDUCED BY 1.3. BUT NOT LESS THAN 300mm

NOTE: UNLESS OTHERWISE SPECIFIED OR DETAILED ON THE DRAWINGS, THESE STANDARD NOTES SHALL APPLY. INCLUSION OF THIS SHEET DOES NOT IMPLY THAT ALL THE DETAILS OCCUR IN THIS CONTRACT.

REVISION	AMENDMENT	APPROVED	DATE
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B	DETAILED DESIGN ISSUED FOR CLIENT APPROVAL	R.G.	2021-08-31
C	DETAILED DESIGN ISSUED FOR TENDER	R.G.	2021-10-22



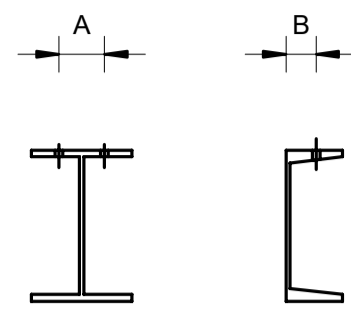
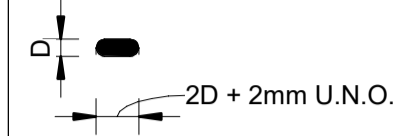
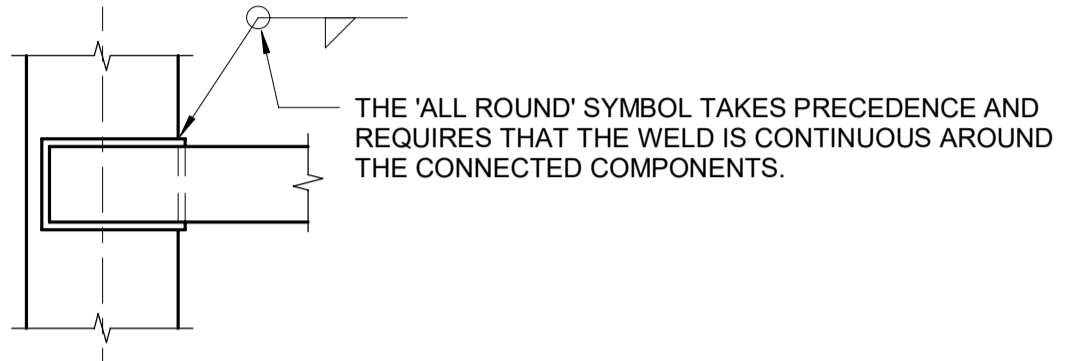
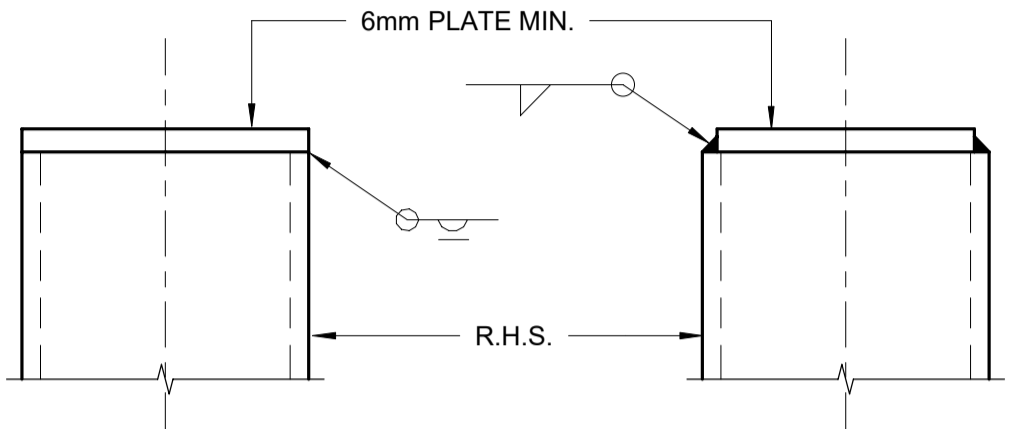
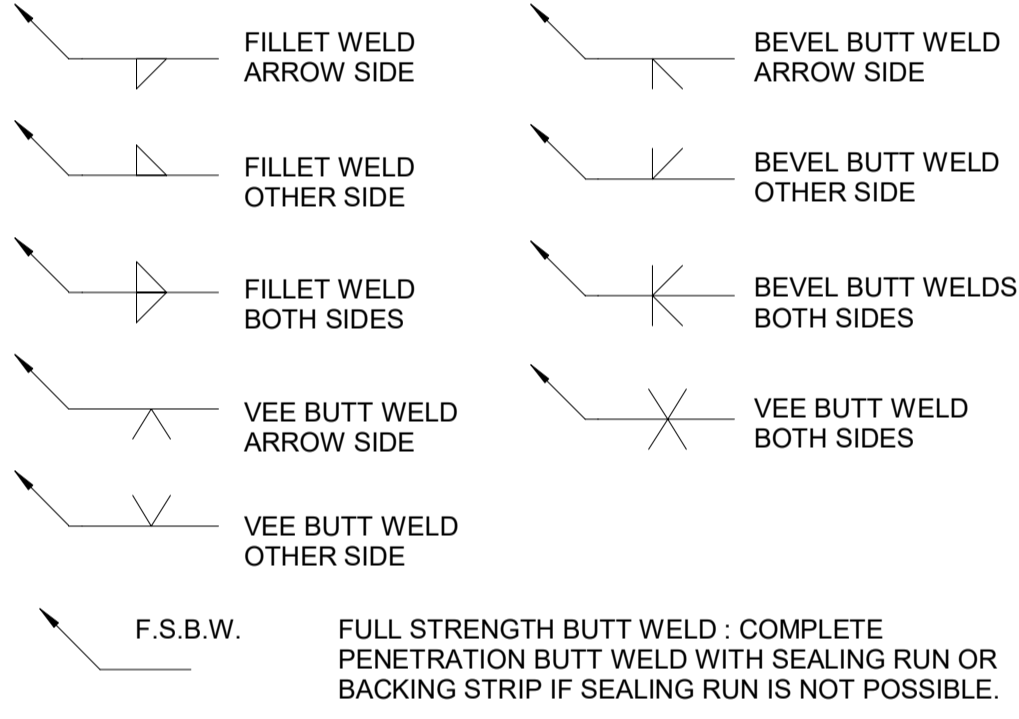
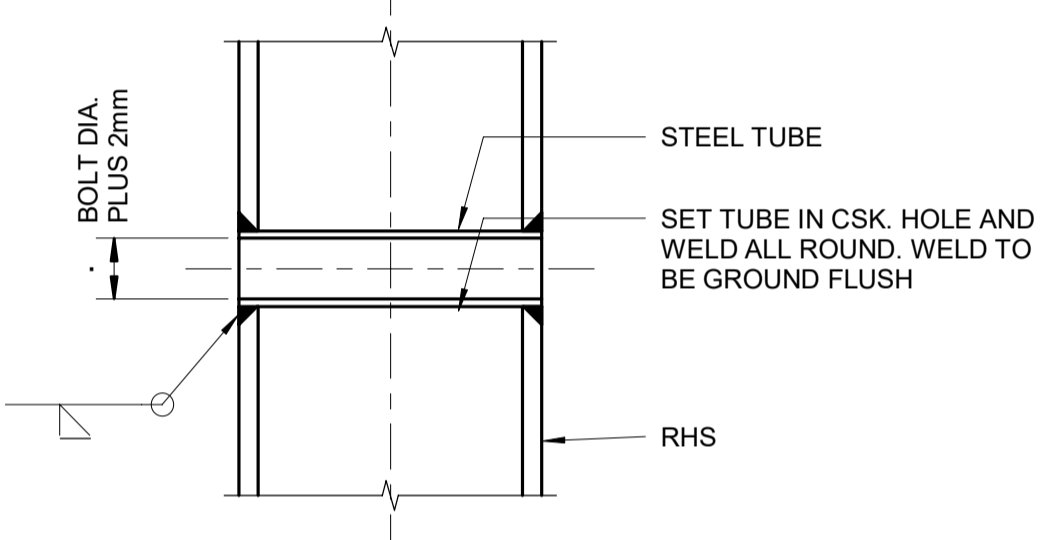
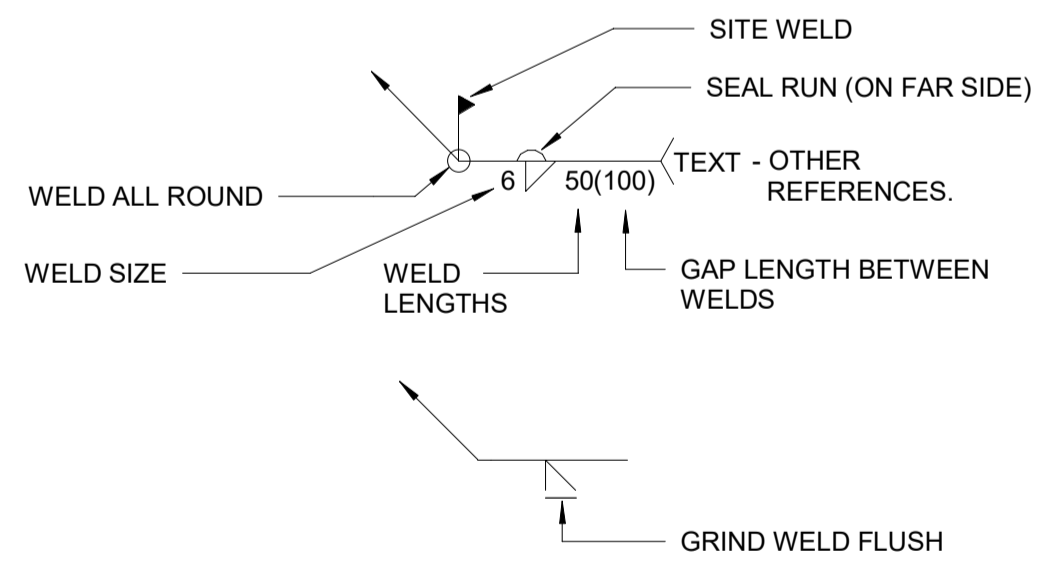
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Queenstown 9300
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+64 3 451 0360

STRUCTURAL

SCALE	DESIGNED	APPROVED
1 : 1 @ A1	C. WALLIS	R. GILL
DRAWN	DESIGN VERIFIED	APPROVED DATE
J. RUAS	J. ORPWOOD	2021-10-22

FOR TENDER

PROJECT				
QUEENSTOWN LAKES DISTRICT COUNCIL WAKATIPU ACTIVE TRAVEL - WATN STAGE 2 ROUTES - ROUTE C5				
TITLE				
STANDARD DETAILS AND NOTES REINFORCED CONCRETE				
WSP PROJECT NO.	PROJ-ORIG-VOL-LVL-TYPE	SHEET NO.	SUITABILITY	REVISION
6-XQ141.00	6XQ141-WSP-01-XX-DR	C802	-	C

GENERAL NOTES:		SECTION - BACK MARKS AND GAUGE				HOLE AND BOLT SYMBOLS				ABBREVIATIONS																																																																																																	
<p>1. CHECK AND VERIFY SETOUT DIMENSIONS AND LEVELS ON-SITE BEFORE COMMENCING CONSTRUCTION.</p> <p>2. UNLESS SHOWN OTHERWISE, ALL BASE PLATES SHALL BEAR DIRECTLY ON ± 5mm NON SHRINK GROUT.</p> <p>3. WASHERS : SPECIFIED WASHERS, TAPERED WHERE NECESSARY, ARE TO BE USED UNDER NUTS AND/OR TURNING BOLT HEADS.</p> <p>4. UNLESS SHOWN OTHERWISE, ALL FILLET WELDS ARE TO BE 6mm. MINIMUM S.P. CONTINUOUS AROUND THE CONNECTED PIECES.</p> <p>5. ALL HOLLOW SECTION MEMBERS ARE TO BE CAPPED AND ALL JOINTS SEALED.</p> <p>6. THIS DRAWING TO BE READ IN CONJUNCTION WITH ALL OTHER CONTRACT DRAWINGS (e.g. ARCHITECTURAL, STRUCTURAL, BUILDING SERVICES, CIVIL etc.) AND THE SPECIFICATION.</p>		 <table border="1"> <thead> <tr> <th colspan="2">BEAMS AND COLUMNS</th> <th colspan="2">CHANNELS</th> </tr> <tr> <th>FLANGE WIDTH mm</th> <th>XCRS. OR GAUGE</th> <th colspan="2">FLANGE WIDTH mm</th> </tr> <tr> <td></td> <td>A B</td> <td></td> <td></td> </tr> </thead> <tbody> <tr> <td>228 TO 320</td> <td>140 55</td> <td colspan="2">100</td> </tr> <tr> <td>165 TO 209</td> <td>90 55</td> <td colspan="2">90</td> </tr> <tr> <td>135 TO 150</td> <td>70 45</td> <td colspan="2">75</td> </tr> <tr> <td>-</td> <td>- 35</td> <td colspan="2">65</td> </tr> </tbody> </table>				BEAMS AND COLUMNS		CHANNELS		FLANGE WIDTH mm	XCRS. OR GAUGE	FLANGE WIDTH mm			A B			228 TO 320	140 55	100		165 TO 209	90 55	90		135 TO 150	70 45	75		-	- 35	65		<p>D = BOLT DIAMETER IN mm</p> <table border="1"> <thead> <tr> <th rowspan="2">HOLES</th> <th>PLAN</th> <th>COUNTERSUNK NEAR SIDE</th> <th>COUNTERSUNK FAR SIDE</th> </tr> </thead> <tbody> <tr> <td>SECTION</td> <td></td> <td></td> <td></td> </tr> </tbody> </table> <table border="1"> <thead> <tr> <th rowspan="2">BOLTS</th> <th>PLAN</th> <th>COUNTERSUNK NEAR SIDE</th> <th>COUNTERSUNK FAR SIDE</th> </tr> </thead> <tbody> <tr> <td>SECTION</td> <td></td> <td></td> <td></td> </tr> </tbody> </table> <p>SLOTTED HOLES</p> <p>PLAN</p> 				HOLES	PLAN	COUNTERSUNK NEAR SIDE	COUNTERSUNK FAR SIDE	SECTION				BOLTS	PLAN	COUNTERSUNK NEAR SIDE	COUNTERSUNK FAR SIDE	SECTION				<table border="1"> <tbody> <tr><td>C/C</td><td>CENTRE TO CENTRE</td></tr> <tr><td>XCRS.</td><td>CROSS CENTRES</td></tr> <tr><td>CSK.</td><td>COUNTERSUNK</td></tr> <tr><td>C.O.S.</td><td>CONFIRM ON SITE</td></tr> <tr><td>DIA.</td><td>DIAMETER</td></tr> <tr><td>Ø</td><td>DIA. (M.S. ROD ONLY)</td></tr> <tr><td>EXTG.</td><td>EXISTING</td></tr> <tr><td>G.P.</td><td>GENERAL PURPOSE</td></tr> <tr><td>H.D. GALV.</td><td>HOT DIPPED GALVANISED</td></tr> <tr><td>HEX.</td><td>HEXAGON</td></tr> <tr><td>H.D.</td><td>HOLDING DOWN (BOLTS)</td></tr> <tr><td>I.D.</td><td>INSIDE DIAMETER</td></tr> <tr><td>LEV.</td><td>LEVEL</td></tr> <tr><td>M.S.</td><td>MILD STEEL M.S.</td></tr> <tr><td>No.</td><td>NUMBER</td></tr> <tr><td>O.D.</td><td>OUTSIDE DIAMETER</td></tr> <tr><td>O/A</td><td>OVERALL</td></tr> <tr><td>P.C.D.</td><td>PITCH CIRCLE DIAMETER</td></tr> <tr><td>PROJ.N.</td><td>PROJECTION</td></tr> <tr><td>RAD.</td><td>RADIUS</td></tr> <tr><td>S.O.P.</td><td>SETTING OUT POINT</td></tr> <tr><td>S.P.</td><td>SPECIAL PURPOSE</td></tr> <tr><td>S.S.</td><td>STAINLESS STEEL</td></tr> <tr><td>THK.</td><td>THICK</td></tr> <tr><td>U/S</td><td>UNDERSIDE</td></tr> <tr><td>U.N.O.</td><td>UNLESS NOTED OTHERWISE</td></tr> </tbody> </table>		C/C	CENTRE TO CENTRE	XCRS.	CROSS CENTRES	CSK.	COUNTERSUNK	C.O.S.	CONFIRM ON SITE	DIA.	DIAMETER	Ø	DIA. (M.S. ROD ONLY)	EXTG.	EXISTING	G.P.	GENERAL PURPOSE	H.D. GALV.	HOT DIPPED GALVANISED	HEX.	HEXAGON	H.D.	HOLDING DOWN (BOLTS)	I.D.	INSIDE DIAMETER	LEV.	LEVEL	M.S.	MILD STEEL M.S.	No.	NUMBER	O.D.	OUTSIDE DIAMETER	O/A	OVERALL	P.C.D.	PITCH CIRCLE DIAMETER	PROJ.N.	PROJECTION	RAD.	RADIUS	S.O.P.	SETTING OUT POINT	S.P.	SPECIAL PURPOSE	S.S.	STAINLESS STEEL	THK.	THICK	U/S	UNDERSIDE	U.N.O.	UNLESS NOTED OTHERWISE
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	PL. PLATE	375x185x10 PL.																																																																																																									
	FL. FLAT	80x10 FL.																																																																																																									
<p>COMMON WELD SYMBOLS</p>  <p>F.S.B.W. FULL STRENGTH BUTT WELD : COMPLETE PENETRATION BUTT WELD WITH SEALING RUN OR BACKING STRIP IF SEALING RUN IS NOT POSSIBLE.</p>		<p>HOLLOW SECTION - SLEEVED HOLE DETAIL</p> 																																																																																																									
<p>COMMON SUPPLEMENTARY WELD SYMBOLS</p> 		<p>BOLT MIN. EDGE DISTANCES & PITCHES</p> <p><u>MINIMUM EDGE DISTANCE FOR BOLTS:</u> (WHERE - D = BOLT DIA. AND EDGE DISTANCE IS MEASURED FROM CENTRE OF BOLT HOLE.)</p> <p>END EDGE DISTANCE = 2D</p> <p>SIDE EDGE DISTANCE = 1.25D FOR ROLLED EDGE</p> <p>= 1.5D FOR PLATE, MACHINED FLAME CUT, SAWN OR PLANED EDGE</p> <p>= 1.75D FOR SHEARED OR HAND FLAME CUT EDGE</p> <p><u>BOLT PITCH:</u> STANDARD = 70mm</p> <p><u>HOLES:</u></p> <p>FOR BOLTED JOINTS = 2mm DIA. GREATER THAN THE BOLT DIA.</p> <p>FOR H.D. BOLTS = 1.22D WHEN STANDARD WASHERS ARE USED OR 1.33D WHEN SPECIAL FABRICATED WASHERS ARE USED</p> <p>SLOTTED HOLES = 2D + 2mm (MINIMUM LENGTH)</p>																																																																																																									

NOTE: UNLESS OTHERWISE SPECIFIED OR DETAILED ON THE DRAWINGS, THESE STANDARD NOTES SHALL APPLY. INCLUSION OF THIS SHEET DOES NOT IMPLY THAT ALL THE DETAILS OCCUR IN THIS CONTRACT.

REVISION	AMENDMENT	APPROVED	DATE
A	DETAILED DESIGN ISSUED FOR CLIENT REVIEW	R.G.	2021-08-03
B	DETAILED DESIGN ISSUED FOR CLIENT APPROVAL	R.G.	2021-08-31
C	DETAILED DESIGN ISSUED FOR TENDER	R.G.	2021-10-22



wsp

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STRUCTURAL

SCALE	ORIGINAL SIZE
1 : 1 @ A1	A1

DRAWN	DESIGNED	APPROVED
J. RUAS	C. WALLIS	R. GILL

DRAWING VERIFIED	DESIGN VERIFIED	APPROVED DATE
J. DUTTON	J. ORPWOOD	2021-10-22

FOR TENDER

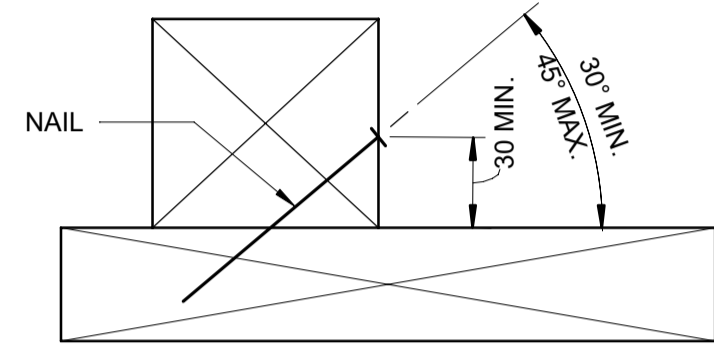
PROJECT				
QUEENSTOWN LAKES DISTRICT COUNCIL				
WAKATIPU ACTIVE TRAVEL - WATN STAGE 2 ROUTES - ROUTE C5				
TITLE				
STANDARD DETAILS AND NOTES				
STRUCTURAL STEEL				
WSP PROJECT NO.	PROJ-ORIG-VOL-LVL-TYPE	SHEET NO.	SUITABILITY	REVISION
6-XQ141.00	6XQ141-WSP-01-XX-DR	C803	-	C

GENERAL NOTES (STANDARD)

- UNLESS OTHERWISE SHOWN GENERAL CONSTRUCTION DETAILS SHALL COMPLY WITH THE REQUIREMENTS OF NZS 3604.
- CHECK ALL DIMENSIONS ON SITE.
- STRUCTURAL DRAWINGS TO BE READ IN CONJUNCTION WITH OTHER CONTRACT DRAWINGS (ARCHITECTURAL, MECHANICAL AND BUILDING SERVICES).
- THESE STANDARD DETAILS ARE NOT COMPLETE IN THEMSELVES AND REFERENCE SHOULD BE MADE TO SPECIFIC DETAILS WITHIN THE CONTRACT DRAWINGS.

PENETRATION OF NAILS & SCREWS

- ALL NAILS IN PLYWOOD, PARTICLE BOARD AND OTHER SHEET MATERIALS SHALL BE FLATHEAD UNLESS OTHERWISE SHOWN
- NAILS SHALL BE FULLY DRIVEN
- SKREW NAILS SHALL BE INSTALLED AS SHOWN:



- THE MINIMUM PENETRATION OF A NAIL INTO THE PIECE OF TIMBER RECEIVING THE POINT OF THE NAIL SHOULD BE 10 TIMES THE SHANK DIAMETER OF THE NAIL.
- THE MINIMUM PENETRATION OF A SCREW INTO THE PIECE OF TIMBER RECEIVING THE SCREW POINT SHOULD BE 7 TIMES THE SHANK DIAMETER.

SYMBOLS FOR TIMBER FASTENERS AND MEMBERS

SYMBOLS FOR BOLTS, NAILS, SCREWS AND CONNECTORS

	PLAN	SECTION
BOLTS		
SHEAR PLATE CONNECTOR		
SPLIT RING CONNECTOR		
TOOTH PLATE CONNECTOR SINGLE SIDED		
TOOTH PLATE CONNECTOR DOUBLE SIDED		
NAILS AND SCREWS		
BRACING ANCHORAGE		
NAIL PLATES (PRE-DRILLED METAL PLATES)		
PRESSED METAL PLATE CONNECTOR		

SYMBOLS FOR TIMBER MEMBERS IN SECTION

CONTINUOUS MEMBER	
DRESSED	
BLOCKING	

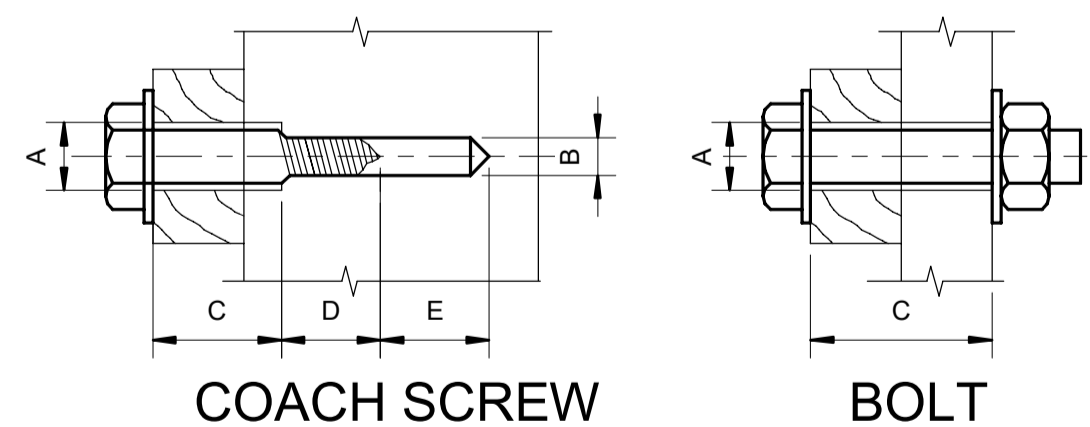
WASHERS

PROVIDE MILD STEEL WASHERS BETWEEN BOLT HEAD AND NUT AND CONTACT TIMBER SURFACE

BOLT DIA. mm	MIN. WASHER SIZE
8	20x20x1.5 mm
10/12	35x35x3 mm
16/20	50x50x5 mm
>20	65x65x5 mm

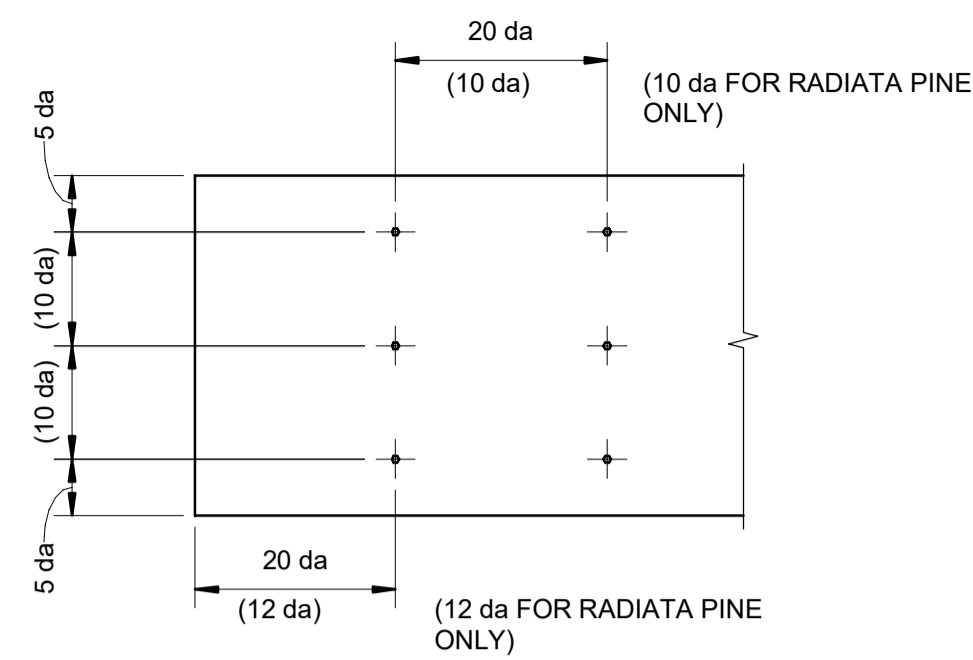
IF ROUND WASHERS ARE USED, THEY SHALL BE OF A THICKNESS AND AREA NOT LESS THAN THOSE SPECIFIED FOR A SQUARE WASHER. IF BOLTS IN TENSION WASHER SIZE TO BE INCREASED BY 1.3

COACH SCREW & BOLT INSTALLATION

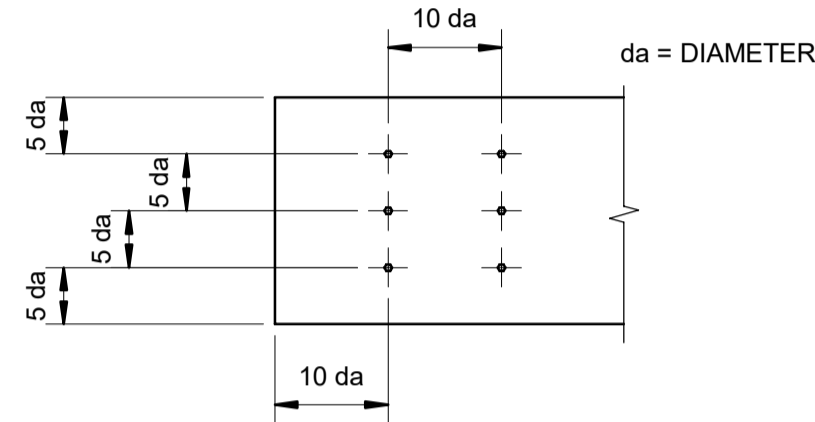


DIMENSIONS SHOW EXTENT OF PREDRILLED HOLES
 A DIAMETER + 1.5mm B ROOT DIA. OF THREAD
 C LENGTH OF SHANK D LENGTH OF THREAD NZS 3603
 E 2 x ROOT DIAMETER

MINIMUM EDGE DISTANCES FOR NAILS, SCREWS AND BOLTS (NZS 3603)



MINIMUM SPACING OF NAILS
BRACKETS FOR RADIATA PINE ONLY

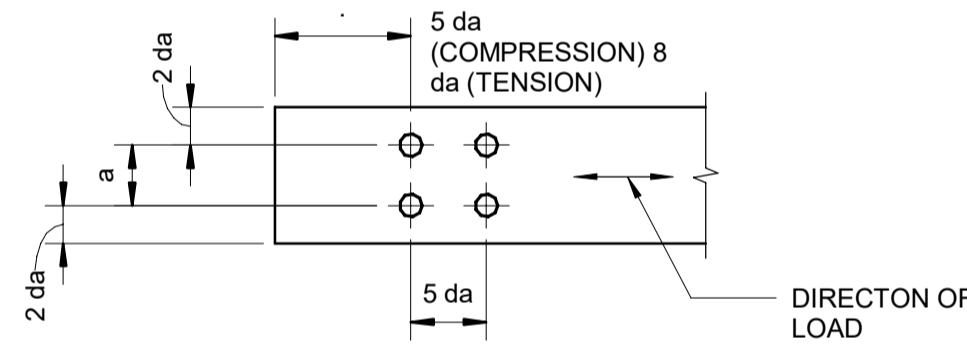


MINIMUM SPACING OF NAILS AND SCREWS HOLES PREBORED TO 0.8

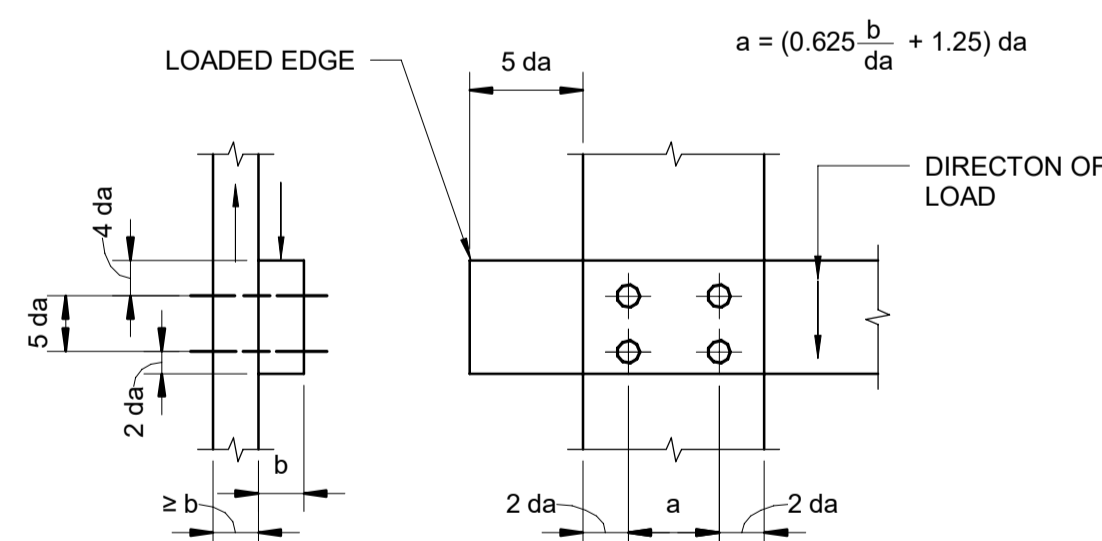
da

$$a = da \left(\frac{n-4+r}{r-1} \right) \geq 2.5d$$

WHERE
 n = No. OF FASTENERS
 r = No. OF ROWS ACCROSS GRAIN



MINIMUM SPACING OF BOLTS
LOAD PARALLEL TO GRAIN



BUT NOT LESS THAN 2.5da OR GREATER THAN 5da

MINIMUM SPACING OF BOLTS
LOAD PERPENDICULAR TO GRAIN

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REVISION	AMENDMENT	APPROVED	DATE
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STRUCTURAL

SCALE: 1 : 20 @ A1 ORIGINAL SIZE: A1

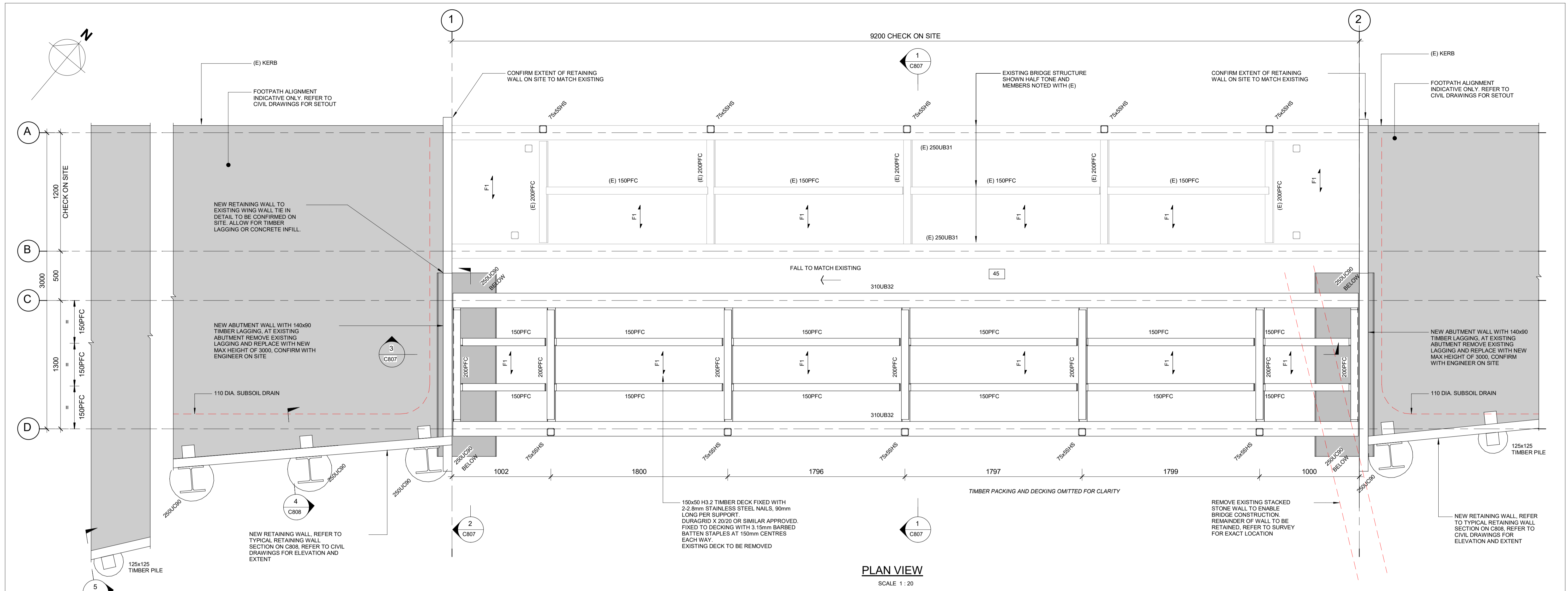
DRAWN	DESIGNED	APPROVED
J. RUAS	C. WALLIS	R. GILL
DRAWING VERIFIED	DESIGN VERIFIED	APPROVED DATE
J. DUTTON	J. ORPWOOD	2021-10-22

FOR TENDER

PROJECT: QUEENSTOWN LAKES DISTRICT COUNCIL
 WAKATIPU ACTIVE TRAVEL - WATN STAGE 2 ROUTES - ROUTE C5

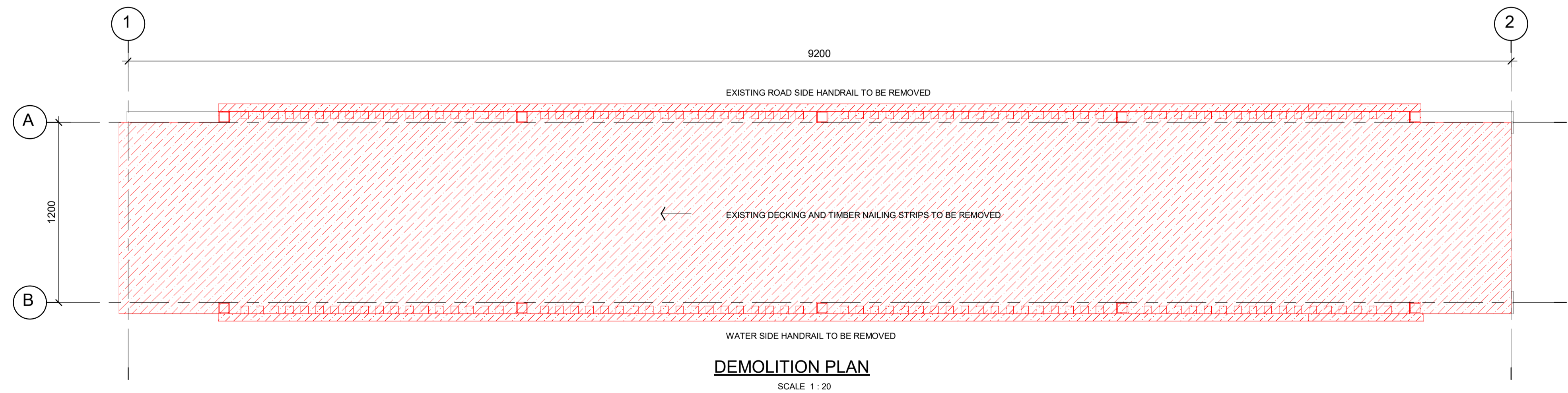
TITLE: STANDARD DETAILS AND NOTES
 TIMBER STRUCTURES

WSP PROJECT NO.	PROJ-ORIG-VOL-LVL-TYPE	SHEET NO.	SUITABILITY	REVISION
6-XQ141.00	6XQ141-WSP-01-XX-DR	C804	-	C



PLAN VIEW
SCALE 1 : 20

- NOTES**
- DRAWINGS TO BE READ IN CONJUNCTION WITH ALL OTHER CONTRACT DRAWINGS AND SPECIFICATION. NOTIFY ANY DISCREPANCY AND OBTAIN ANY INSTRUCTION BEFORE PROCEEDING.
 - CHECK AND VERIFY EXISTING DIMENSIONS AND LEVELS ON SITE BEFORE COMMENCING CONSTRUCTION, ORDERING MATERIAL OR OFF-SITE FABRICATION.
 - EXISTING STRUCTURE IS SHOWN INDICATIVELY ONLY. VERIFY DIMENSIONS & CONFIGURATION OF EXISTING STRUCTURE ON SITE BEFORE COMMENCING ANY WORKS & NOTIFY ENGINEER IF ANY DIFFERENCES TO WHAT IS INDICATED ON THE DWGS ARE ENCOUNTERED.
 - EXISTING SERVICES NOT SHOWN. VERIFY LOCATION OF ALL EXISTING SERVICES ON SITE BEFORE COMMENCING ANY WORKS.
 - ALL FIXINGS TO BE STAINLESS STEEL U.N.O.
 - ALL RETAINING WALL LAGGING TO BE H4 TREATED U.N.O. TIMBER POSTS TO BE H5 TREATED U.N.O. ALL OTHER TIMBER TO BE H3.2 TREATED U.N.O.
 - THE FOLLOWING GEOTECHNICAL REPORTS HAVE BEEN PREPARED FOR THIS PROJECT BY WSP:
 - WATN STAGE 2 - PRELIMINARY GEOTECHNICAL ASSESSMENT REPORT (9 OCTOBER 2020)
 - WATN STAGE 2 - GEOTECHNICAL INTERPRETIVE REPORT (5 FEBRUARY 2021)
 - ADDITIONAL GEOTECHNICAL INVESTIGATION INFORMATION SPECIFIC TO THE STRUCTURES INCLUDED IN THIS DRAWING SET IS APPENDED TO THE DESIGN FEATURES REPORT.
 - FOUNDATION SIZES AND DETAILS ARE BASED ON GROUND CONDITION ASSUMPTIONS NOTED ON DRAWINGS. IF CONDITIONS DIFFER TO THOSE STATED, THE CONTRACTOR MUST NOTIFY THE ENGINEER.
 - A PROOF BORE IS REQUIRED AT ROBINS ROAD BRIDGE, HORNE CREEK CULVERT AND GORGE ROAD BOARDWALK TO CONFIRM GROUND CONDITIONS AT FOUNDING DEPTH. THE ENGINEER SHALL OBSERVE THE PROOF BORE TO CONFIRM FOUNDATION SIZES AND DETAILS ARE APPROPRIATE PRIOR TO CONSTRUCTION AND ORDERING OF MATERIALS.
 - THE CONTRACTOR MUST VERIFY GROUND CONDITIONS DURING FOUNDATION EXCAVATION AND REPORT TO THE ENGINEER.
 - CONTRACTOR TO ALLOW TO CASE ALL AUGERED HOLES.
 - LAGGING BOARDS TO BE FIXED WITH 1-14g SCREW, 150mm LONG.
 - BRIDGE PILE SET OUT TO BE CONFIRMED ON SITE WITH ENGINEER AND IS TO BE BASED ON THE EXISTING ROBINS ROAD BRIDGE.



DEMOLITION PLAN
SCALE 1 : 20

REVISION	AMENDMENT	APPROVED	DATE
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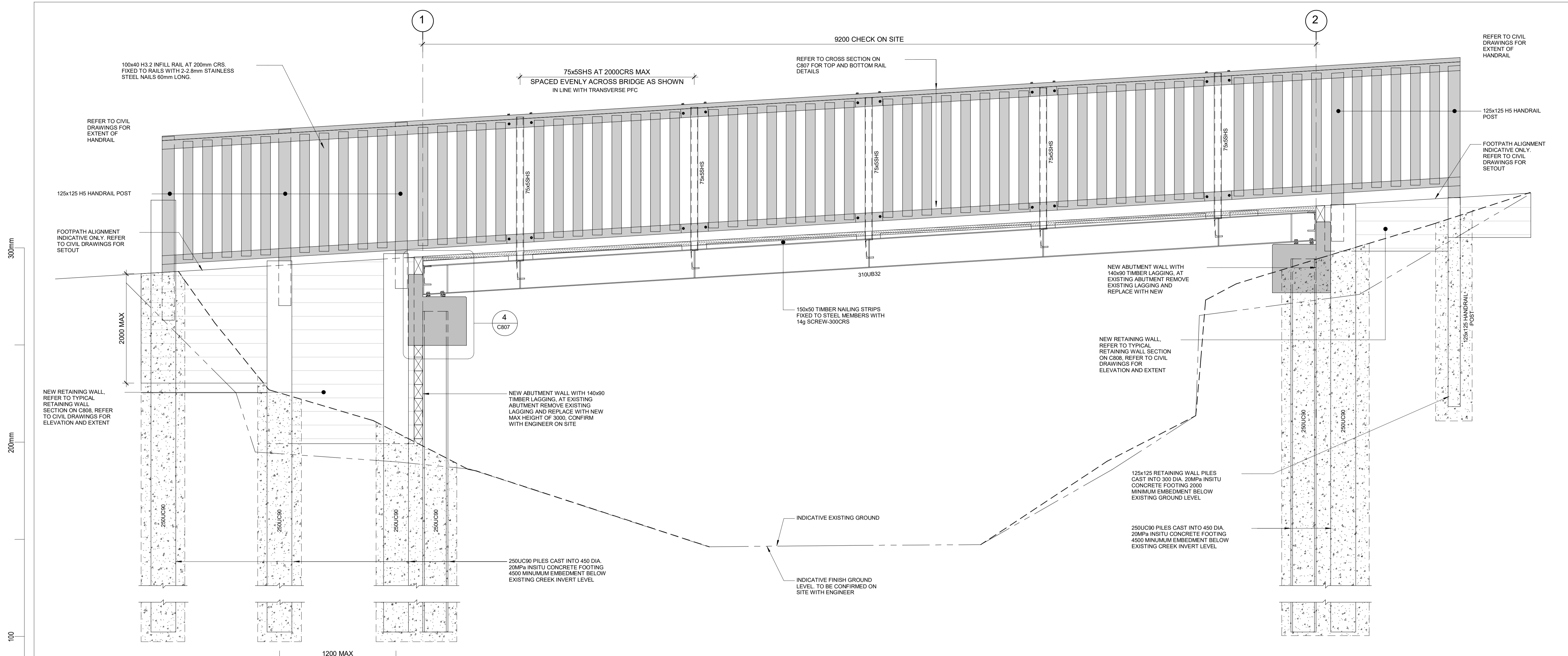
wsp
Queenstown Office
PO Box 2323
Queenstown 9300
New Zealand
+64 3 451 0360

STRUCTURAL

SCALE		ORIGINAL SIZE
As indicated @ A1		A1
DRAWN	DESIGNED	APPROVED
J. RUAS	C. WALLIS	R. GILL
DRAWING VERIFIED	DESIGN VERIFIED	APPROVED DATE
J. DUTTON	J. ORPWOOD	2021-08-31

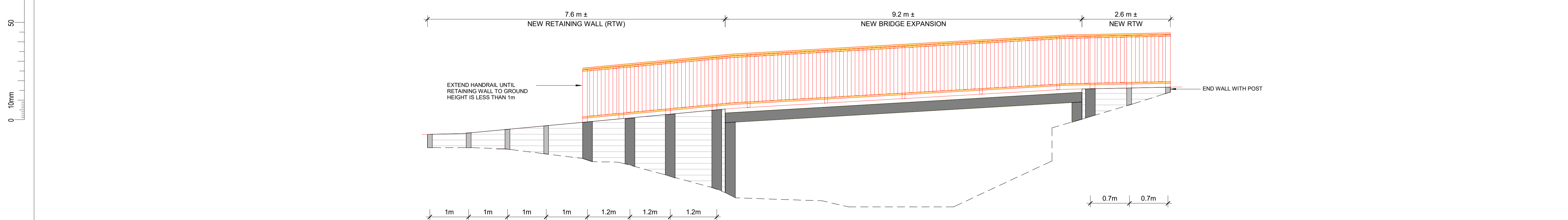
FOR TENDER

PROJECT				
QUEENSTOWN LAKES DISTRICT COUNCIL				
WAKATIPU ACTIVE TRAVEL - WATN STAGE 2 ROUTES - ROUTE C5				
ROBINS ROAD BRIDGE EXTENSION				
TITLE				
PLAN VIEW				
WSP PROJECT NO.	PROJ-ORIG-VOL-LVL-TYPE	SHEET NO.	SUITABILITY	REVISION
6-QX141.00	6XQ141-WSP-01-XX-DR	C805	-	B



BRIDGE ELEVATION

SCALE 1 : 20



BRIDGE ELEVATION - FULL EXTENT

SCALE 1 : 50

REVISION	AMENDMENT	APPROVED	DATE
A	DETAILED DESIGN ISSUED FOR CLIENT REVIEW	R.G.	2021-08-03
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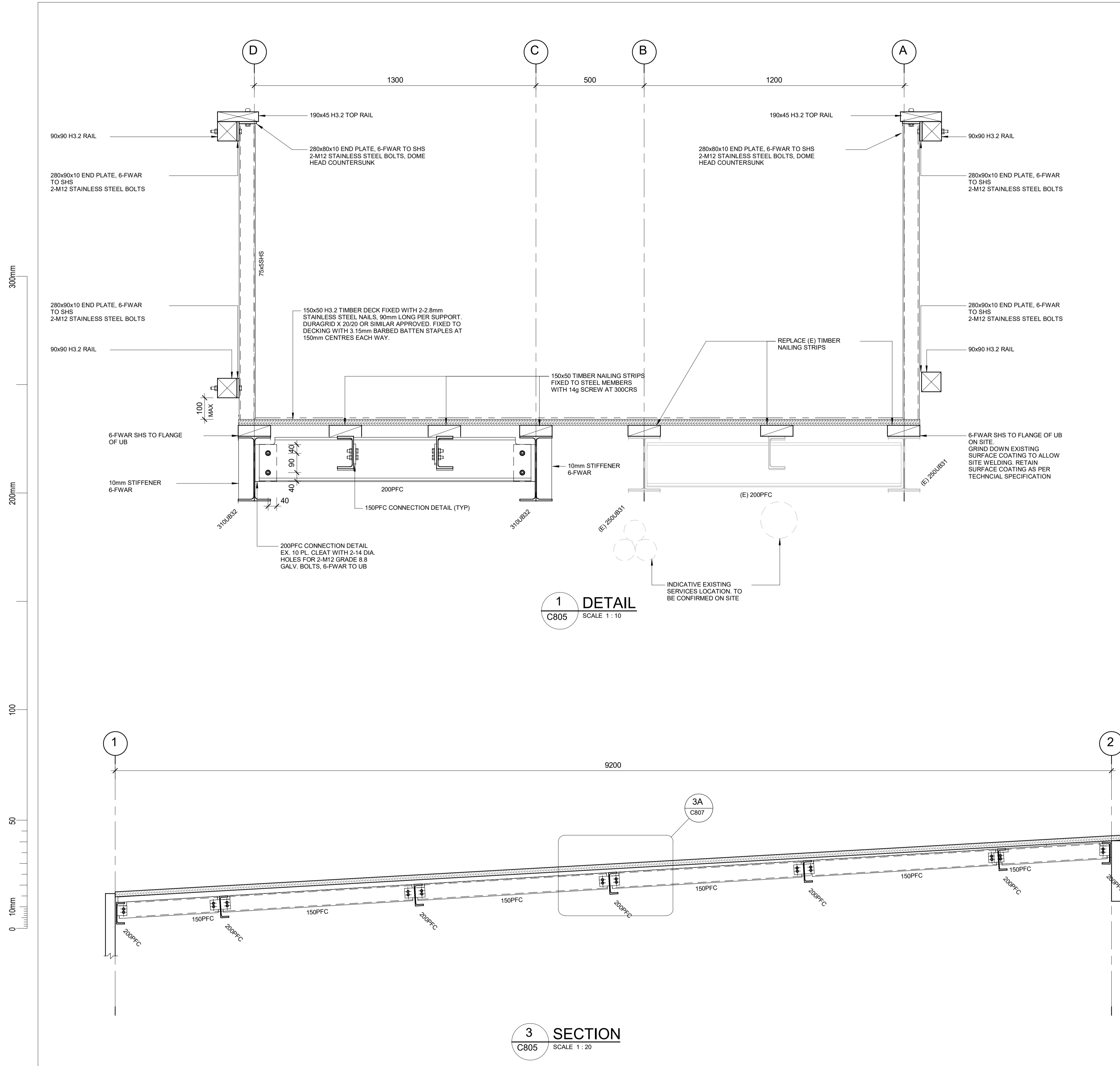
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STRUCTURAL

SCALE		ORIGINAL SIZE
As indicated @ A1		A1
DRAWN	DESIGNED	APPROVED
J. RUAS	C. WALLIS	R. GILL
DRAWING VERIFIED	DESIGN VERIFIED	APPROVED DATE
J. DUTTON	J. ORPWOOD	2021-08-31

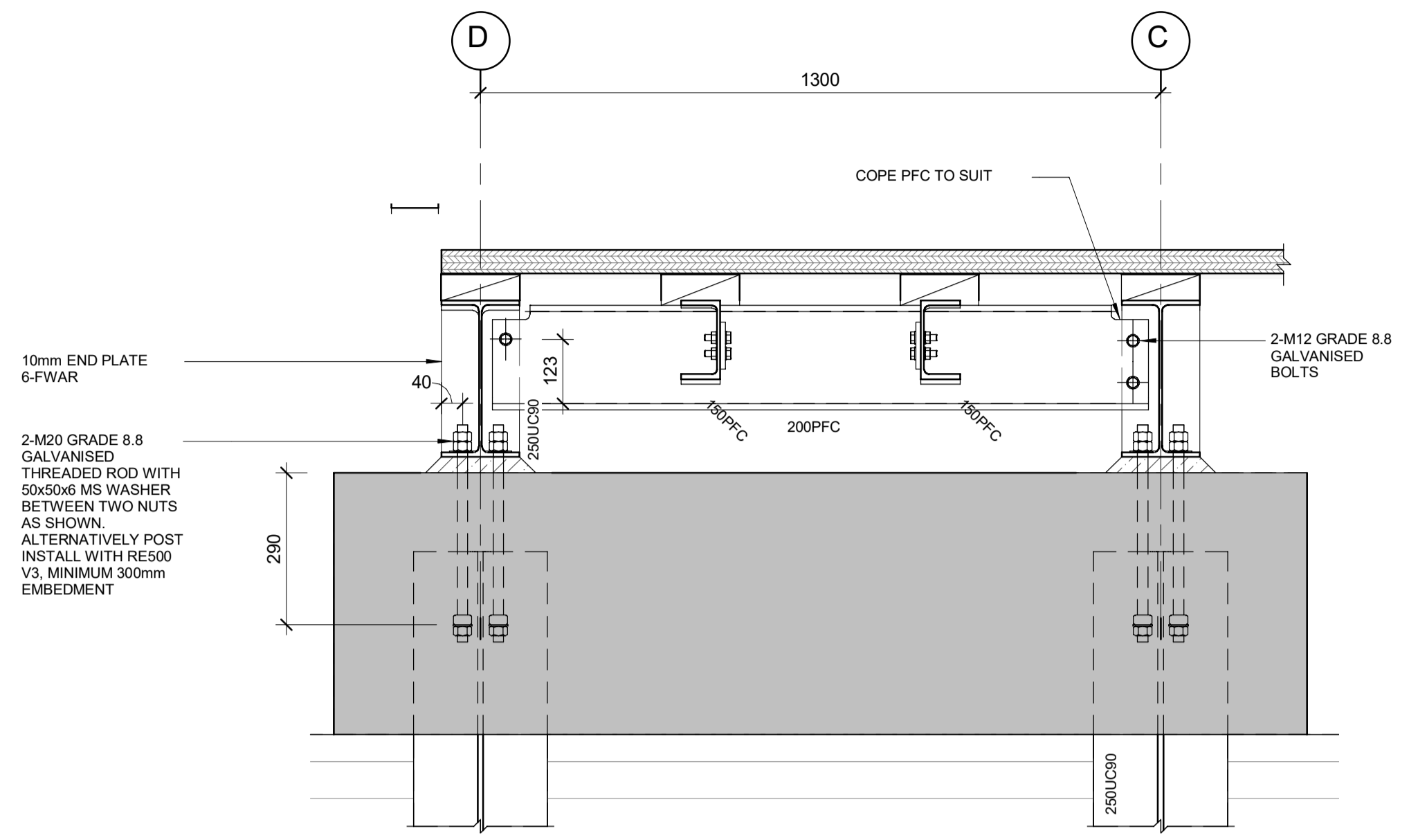
FOR TENDER

PROJECT				
QUEENSTOWN LAKES DISTRICT COUNCIL				
WAKATIPU ACTIVE TRAVEL - WATN STAGE 2 ROUTES - ROUTE C5				
ROBINS ROAD BRIDGE EXTENSION				
TITLE				
ELEVATIONS				
WSP PROJECT NO.	PROJ-ORIG-VOL-LVL-TYPE	SHEET NO.	SUITABILITY	REVISION
6-XQ141.00	6XQ141-WSP-01-XX-DR	C806	-	B

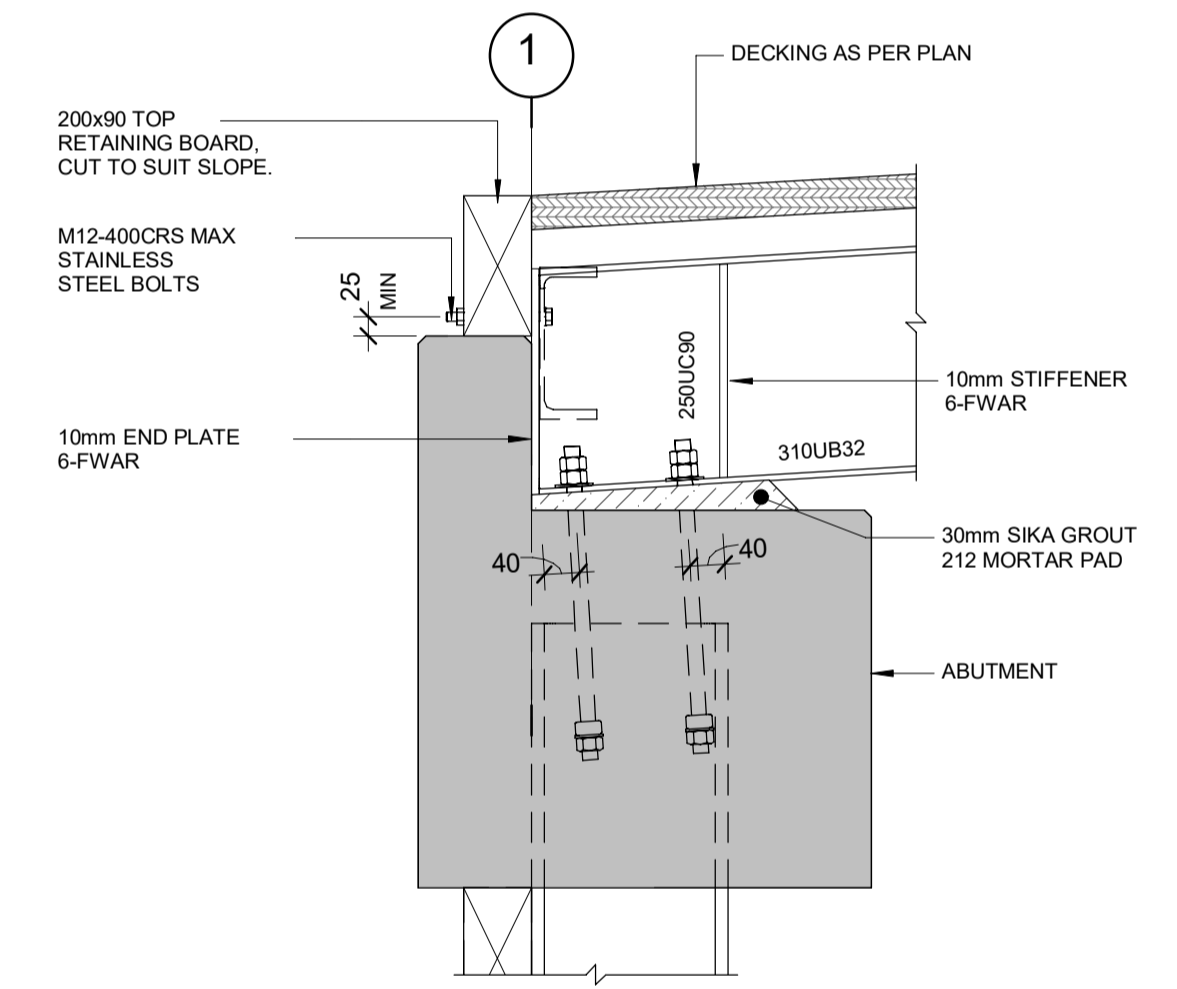


1 DETAIL
C805 SCALE 1:10

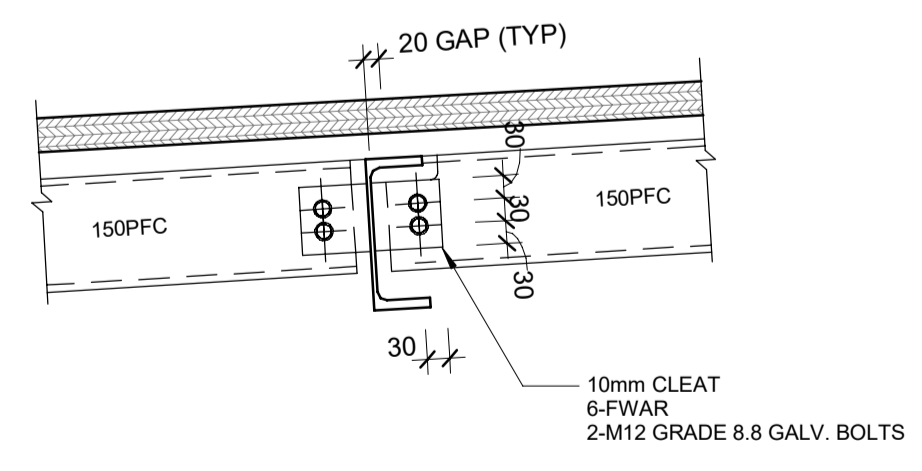
3 SECTION
C805 SCALE 1:20



2 DETAIL
C805 SCALE 1:10



4 DETAIL
C806 SCALE 1:10



3A DETAIL
C807 SCALE 1:10

REVISION	AMENDMENT	APPROVED	DATE
A	DETAILED DESIGN ISSUED FOR CLIENT REVIEW	R.G.	2021-08-03
B	DETAILED DESIGN ISSUED FOR CLIENT APPROVAL	R.G.	2021-08-31



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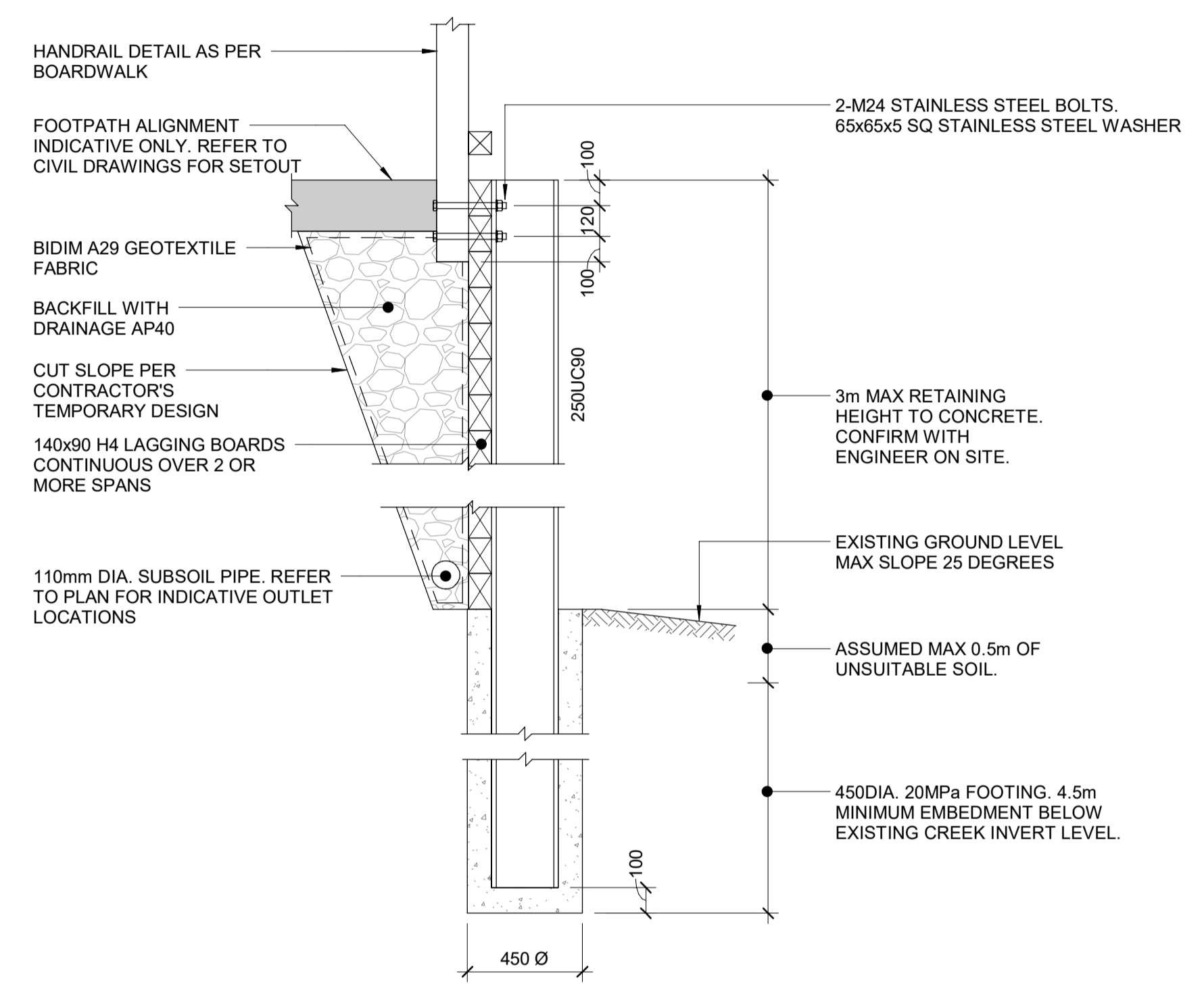
STRUCTURAL

SCALE	DESIGNED	APPROVED
As indicated @ A1	C. WALLIS	R. GILL
DRAWN	J. RUAS	APPROVED DATE
DRAWING VERIFIED	J. DUTTON	2021-08-31

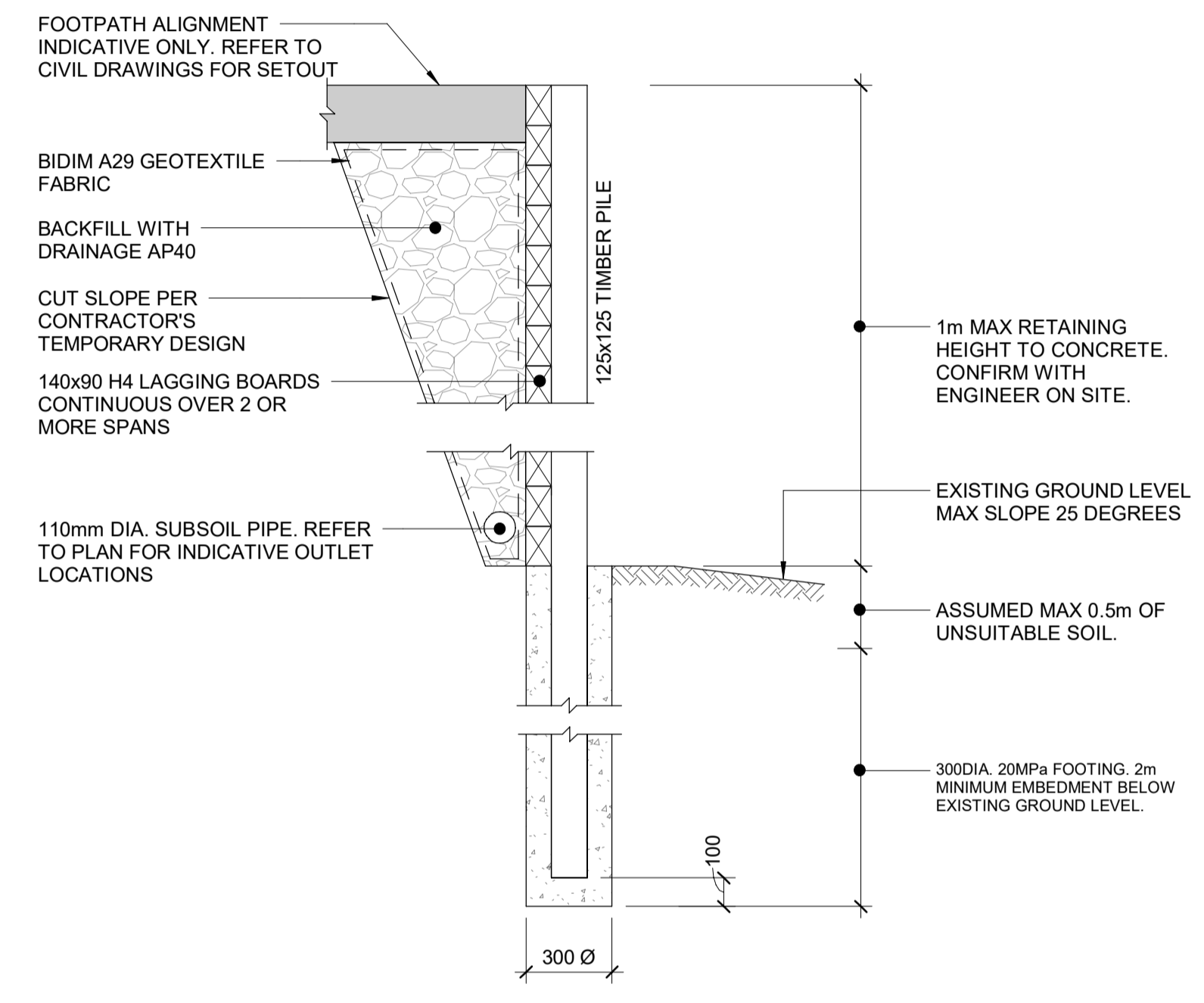
FOR TENDER

PROJECT				
QUEENSTOWN LAKES DISTRICT COUNCIL				
WAKATIPU ACTIVE TRAVEL - WATN STAGE 2 ROUTES - ROUTE C5				
ROBINS ROAD BRIDGE EXTENSION				
TITLE				
SECTIONS AND DETAILS				
WSP PROJECT NO.	PROJ-ORIG-VOL-LVL-TYPE	SHEET NO.	SUITABILITY	REVISION
6-XQ141.00	6XQ141-WSP-01-XX-DR	C807	-	B

300mm
200mm
100
50
10mm
0



4 SECTION
C805 SCALE 1:20



5 SECTION
C805 SCALE 1:20

REVISION	AMENDMENT	APPROVED	DATE
A	DETAILED DESIGN ISSUED FOR CLIENT APPROVAL	R.G.	2021-08-31
B	DETAILED DESIGN ISSUED FOR TENDER	R.G.	2021-10-22



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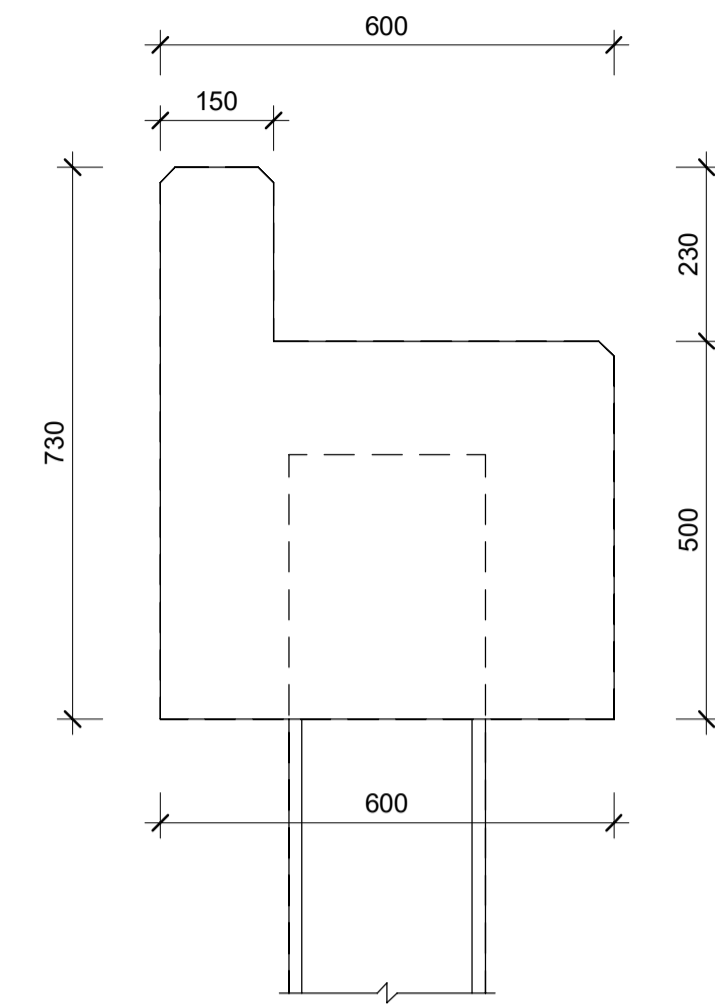
PO Box 2323
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STRUCTURAL

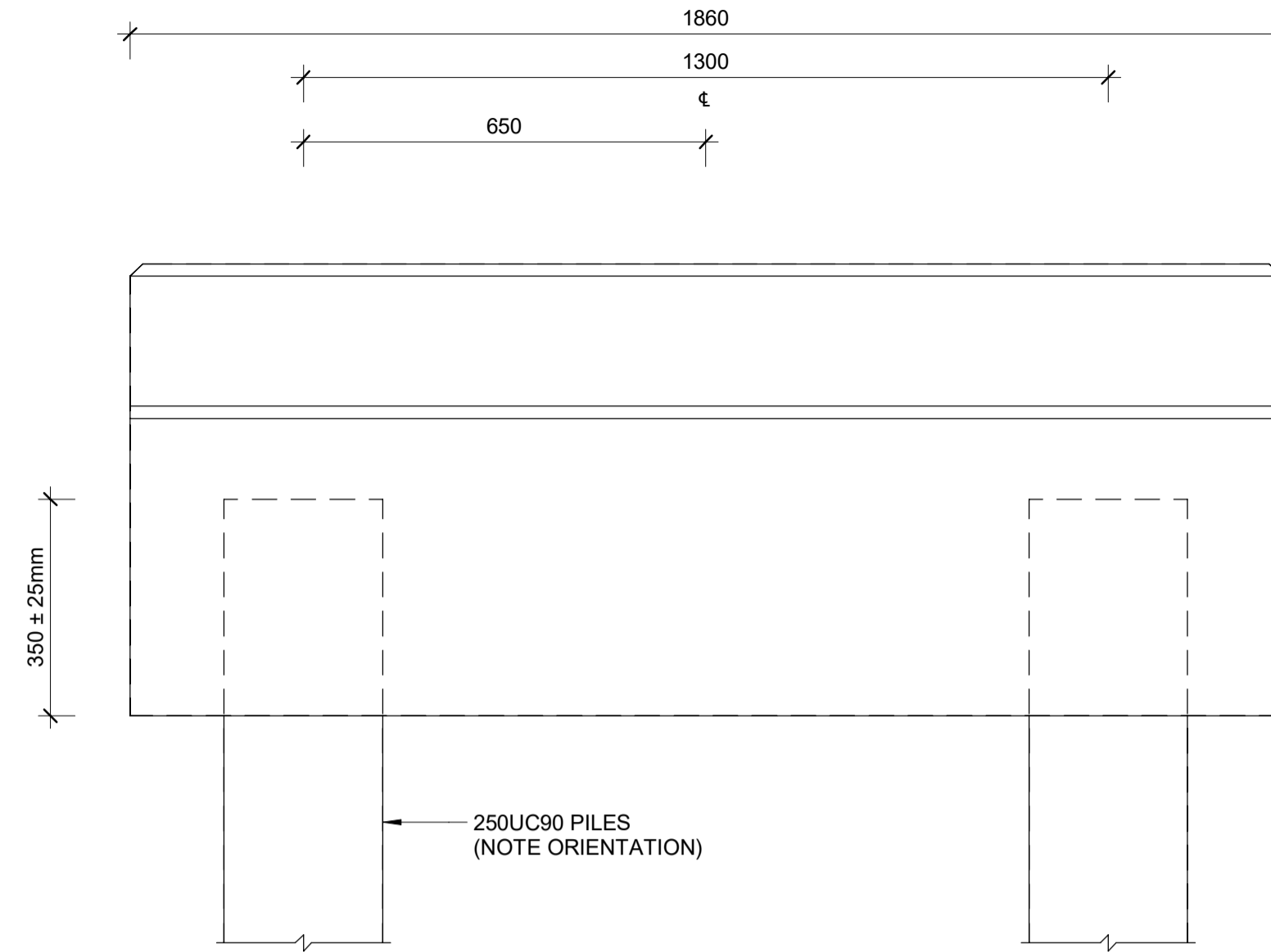
SCALE		ORIGINAL SIZE
1:20 @ A1		A1
DRAWN	DESIGNED	APPROVED
J. RUAS	C. WALLIS	R. GILL
DRAWING VERIFIED	DESIGN VERIFIED	APPROVED DATE
J. DUTTON	J. ORPWOOD	2021-10-22

FOR TENDER

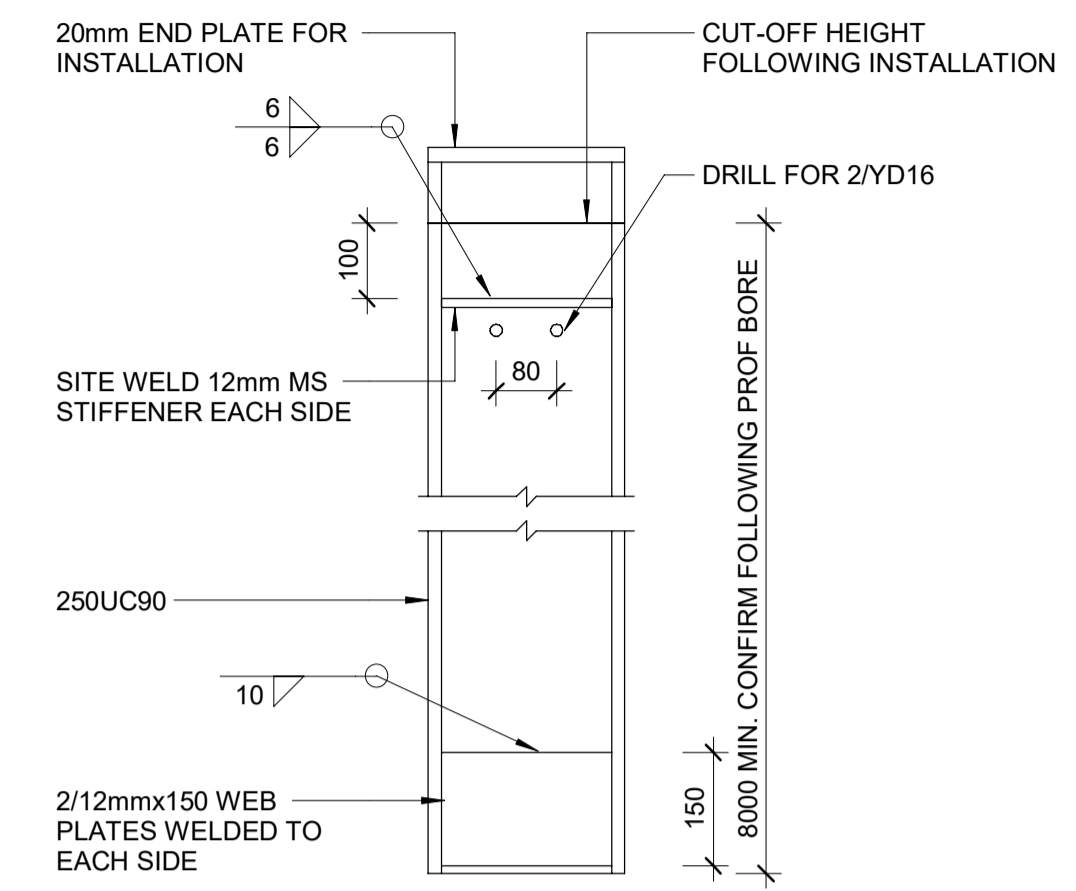
PROJECT				
QUEENSTOWN LAKES DISTRICT COUNCIL				
WAKATIPU ACTIVE TRAVEL - WATN STAGE 2 ROUTES - ROUTE C5				
ROBINS ROAD BRIDGE EXTENSION				
TITLE				
RETAINING WALL DETAILS				
WSP PROJECT NO.	PROJ-ORIG-VOL-LVL-TYPE	SHEET NO.	SUITABILITY	REVISION
6-XQ141.00	6XQ141-WSP-01-XX-DR	C808	-	B



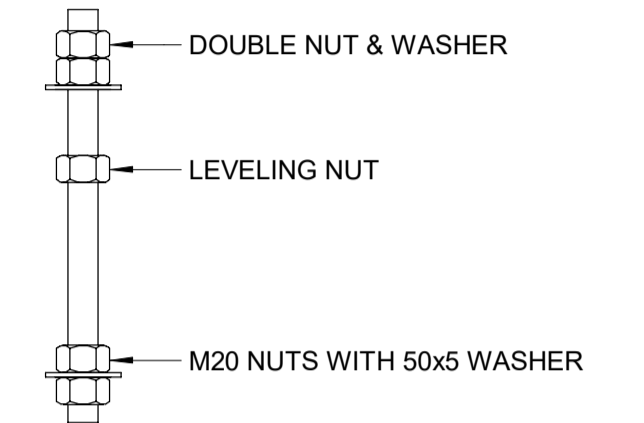
ABUTMENT END ELEVATION
SCALE 1 : 10



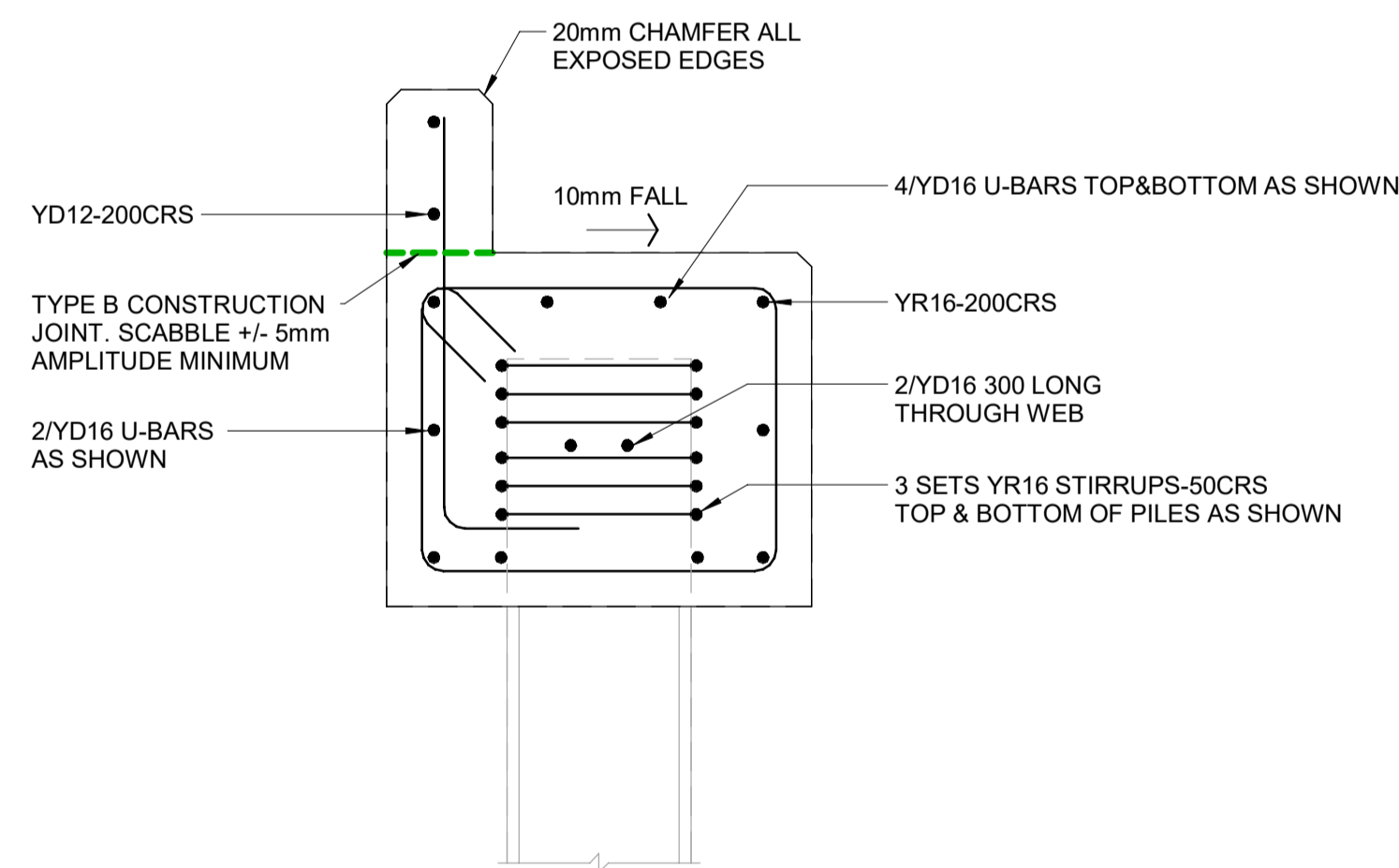
ABUTMENT FRONT ELEVATION
SCALE 1 : 10



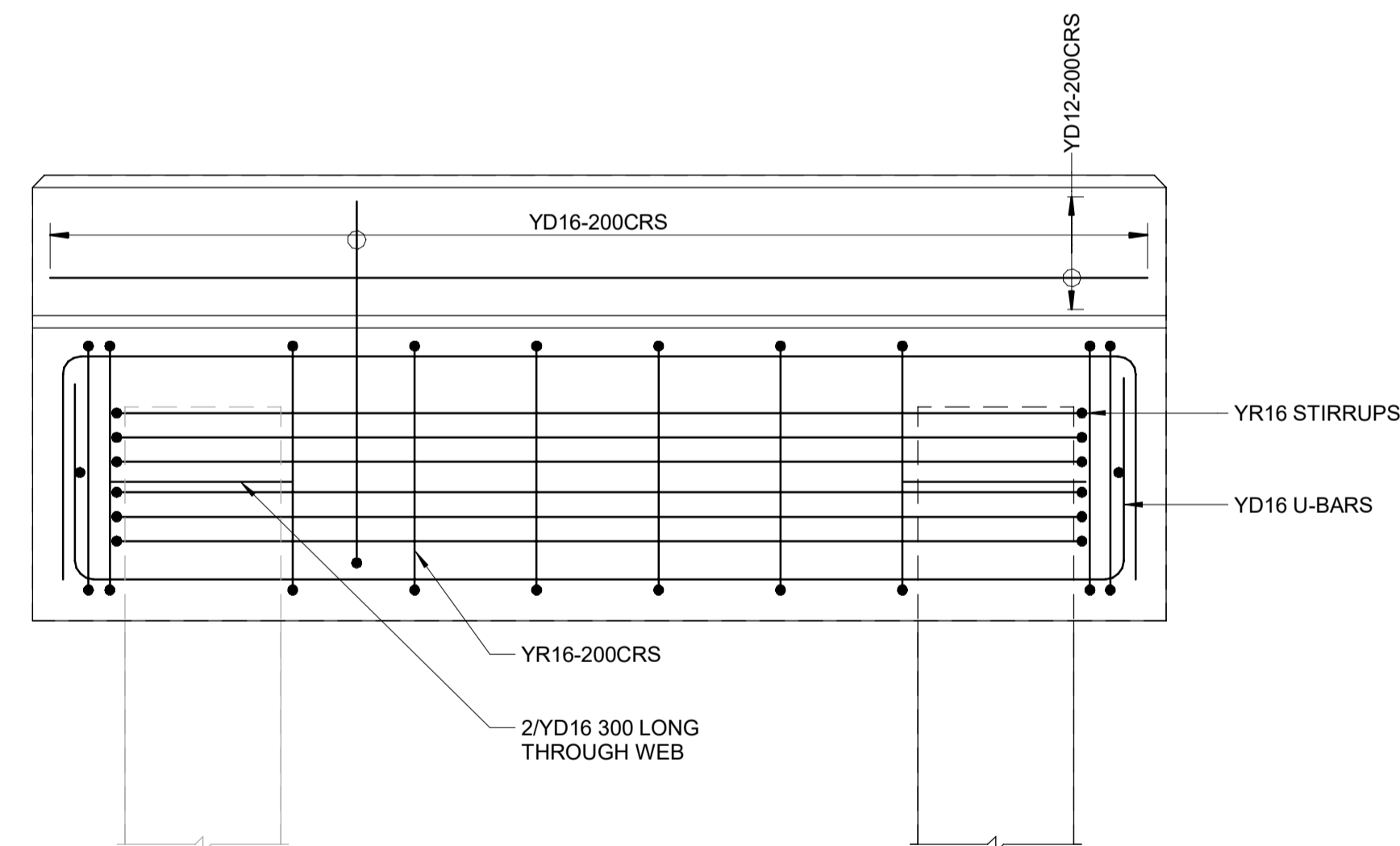
PILE DETAIL
SCALE 1 : 10



ANCHOR BOLT DETAIL
SCALE 1 : 5



ABUTMENT TYPICAL SECTION
SCALE 1 : 10



ABUTMENT REINFORCING DETAIL
SCALE 1 : 10

REVISION	AMENDMENT	APPROVED	DATE
A	DETAILED DESIGN ISSUED FOR CLIENT APPROVAL	R.G.	2021-08-31



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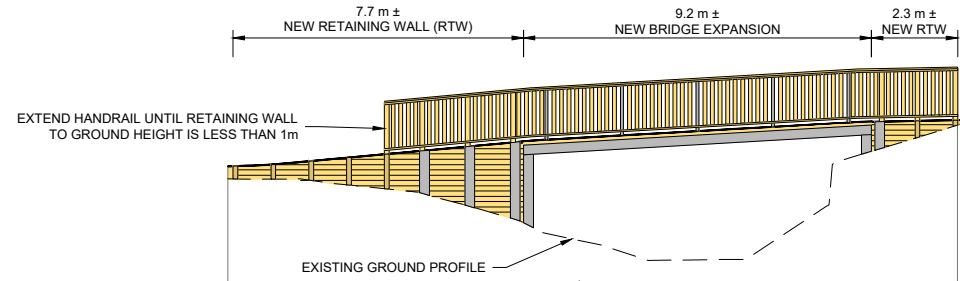
STRUCTURAL

SCALE	DESIGNED	APPROVED
As indicated @ A1	C. WALLIS	R. GILL
DRAWN	DESIGN VERIFIED	APPROVED DATE
J. RUAS	J. ORPWOOD	2021-08-31
DRAWING VERIFIED	DESIGN VERIFIED	APPROVED DATE
J. DUTTON	J. ORPWOOD	2021-08-31

FOR TENDER

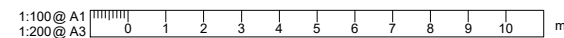
PROJECT	SHEET NO.	SUITABILITY	REVISION
QUEENSTOWN LAKES DISTRICT COUNCIL WAKATIPU ACTIVE TRAVEL - WATN STAGE 2 ROUTES - ROUTE C5 ROBINS ROAD BRIDGE EXTENSION	C809	-	A
TITLE	WSP PROJECT NO.	PROJ-ORIG-VOL-LVL-TYPE	SHEET NO.
ABUTMENT DETAILS	6-XQ141.00	6XQ141-WSP-01-XX-DR	C809

300 mm
200
100
50
0 10 mm



Datum R.L. 318.00							
PROPOSED LEVEL		321.79	321.82		322.46	322.54	322.96
CUT/FILL		0.33	0.37		2.26	2.71	0.89
EXISTING LEVEL		321.46	321.45		320.20	319.83	322.07
STATION		10.70	11.74		18.71	20.00	27.34
							30.00
							30.30

PROPOSED BRIDGE AND RETAINING WALL ELEVATIONS
 (REFER TO SHEET C216 FOR LOCATION)
 SCALE 1:100(A1), 1:200(A3)



REVISION	AMENDMENT	APPROVED	DATE
A	DETAILED DESIGN ISSUED FOR CLIENT REVIEW	R. G.	2021-08-02
B	DETAILED DESIGN ISSUED FOR CLIENT APPROVAL	R. G.	2021-08-30
C	DETAILED DESIGN ISSUED FOR TENDER	R. G.	2021-10-22



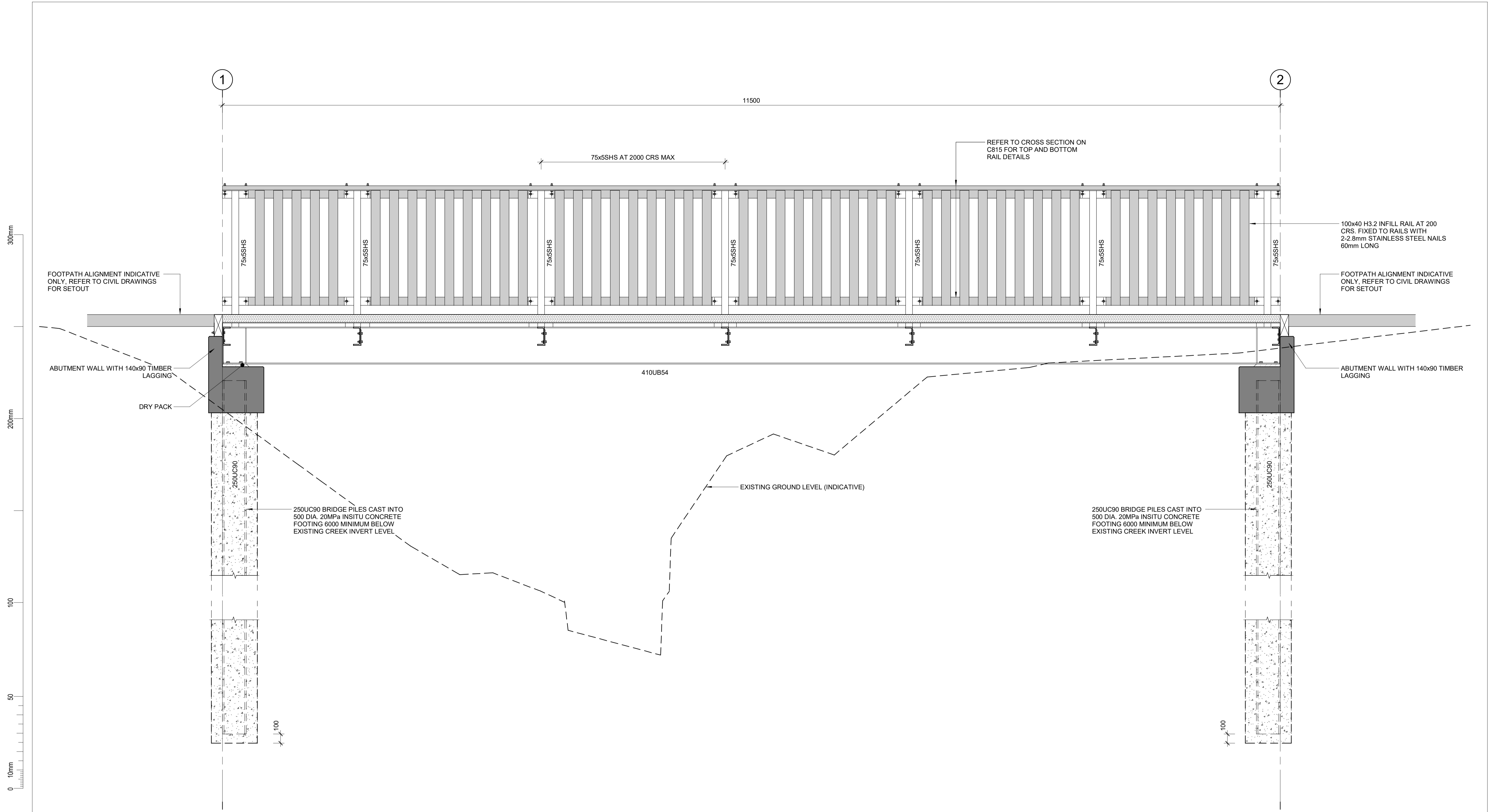
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 Queenstown 9300
 New Zealand

CIVIL

SCALES		ORIGINAL SIZE
1:100 @ A1		A1
DRAWN	DESIGNED	APPROVED
P. FIEREK	P. FIEREK	R. GILL
DRAWING VERIFIED	DESIGN VERIFIED	APPROVED DATE
S.FORBES	S.SHERLAW	2021-08-02

FOR TENDER

PROJECT			
QUEENSTOWN LAKES DISTRICT COUNCIL WAKATIPU ACTIVE TRAVEL WATN STAGE 2 ROUTES - ROUTE C5			
TITLE			
ROBINS ROAD BRIDGE EXPANSION BRIDGE AND RETAINING WALL ELEVATIONS			
WSP PROJECT NO.	PROJ-ORIG-VOL-LOC-TYPE	SHEET NO.	REVISION
6-XQ141.00	6-XQ141-WSP-01-C5-DR	C810	C



BRIDGE ELEVATION
SCALE 1 : 20

REVISION	AMENDMENT	APPROVED	DATE
A	DETAILED DESIGN ISSUED FOR CLIENT APPROVAL	R.G.	2021-08-31



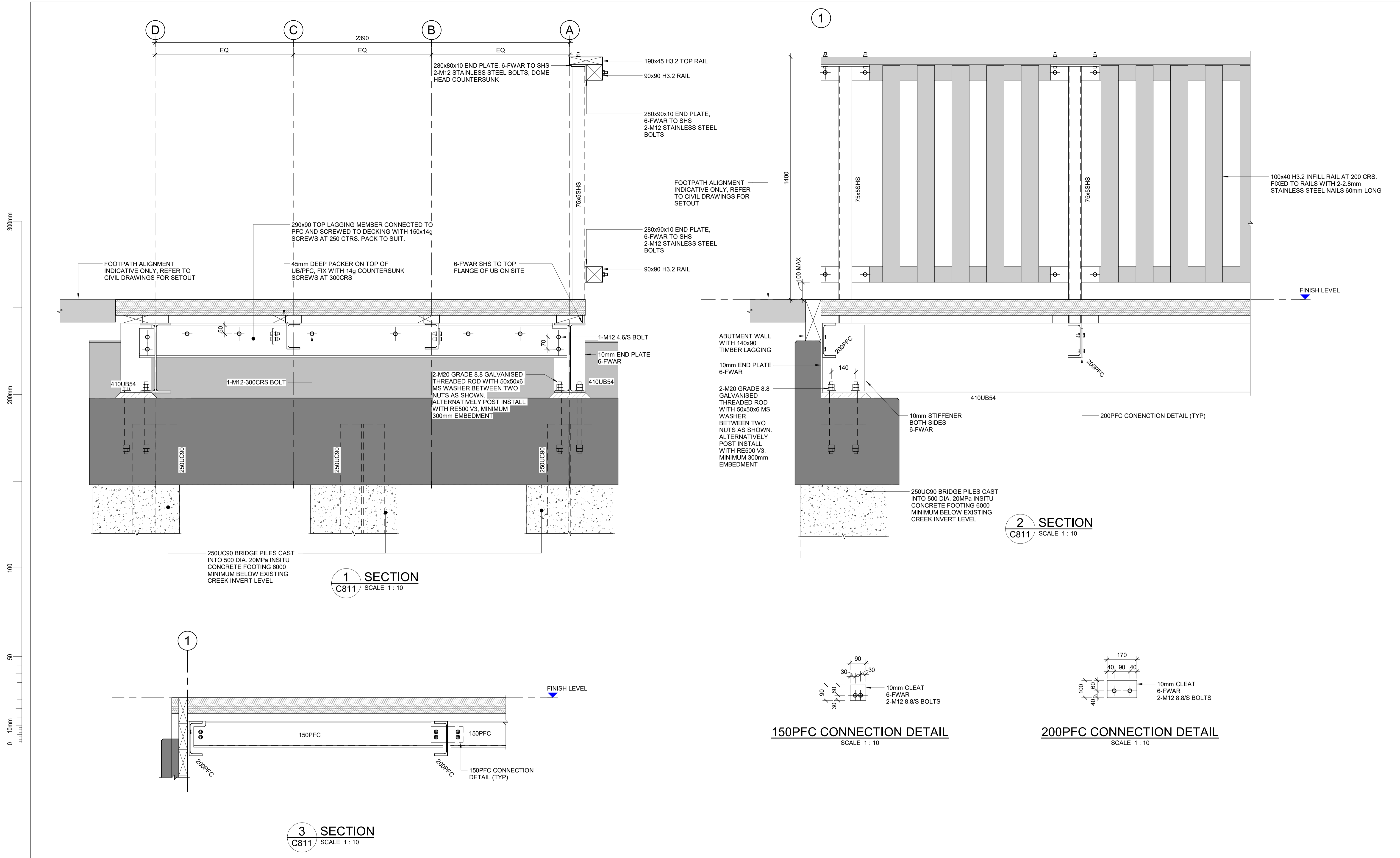
wsp
Queenstown Office
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STRUCTURAL

SCALE		ORIGINAL SIZE
1 : 20 @ A1		A1
DRAWN	DESIGNED	APPROVED
J. RUAS	C. WALLIS	R. GILL
DRAWING VERIFIED	DESIGN VERIFIED	APPROVED DATE
J. DUTTON	J. ORPWOOD	2021-08-31

FOR TENDER

PROJECT				
QUEENSTOWN LAKES DISTRICT COUNCIL WAKATIPU ACTIVE TRAVEL - WATN STAGE 2 ROUTES - ROUTE C5 HORNE CREEK PEDESTRIAN BRIDGE				
TITLE				
ELEVATION				
WSP PROJECT NO.	PROJ-ORIG-VOL-LVL-TYPE	SHEET NO.	SUITABILITY	REVISION
6-XQ141.00	6XQ141-WSP-01-XX-DR	C812	-	A



REVISION	AMENDMENT	APPROVED	DATE
A	DETAILED DESIGN ISSUED FOR CLIENT REVIEW	R.G.	2021-08-03
B	DETAILED DESIGN ISSUED FOR CLIENT APPROVAL	R.G.	2021-08-31



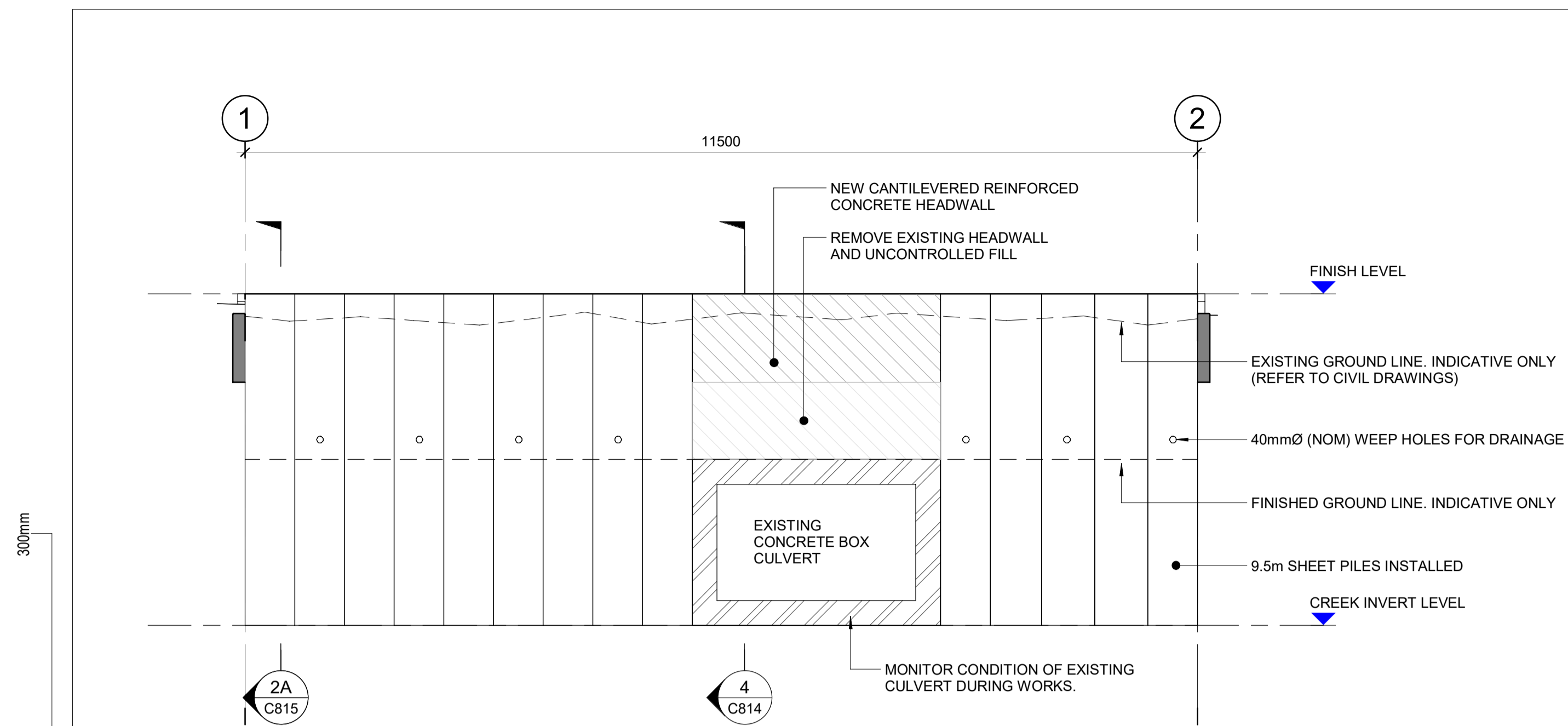
wsp
Queenstown Office
PO Box 2323
Queenstown 9300
New Zealand
+64 3 451 0360

STRUCTURAL

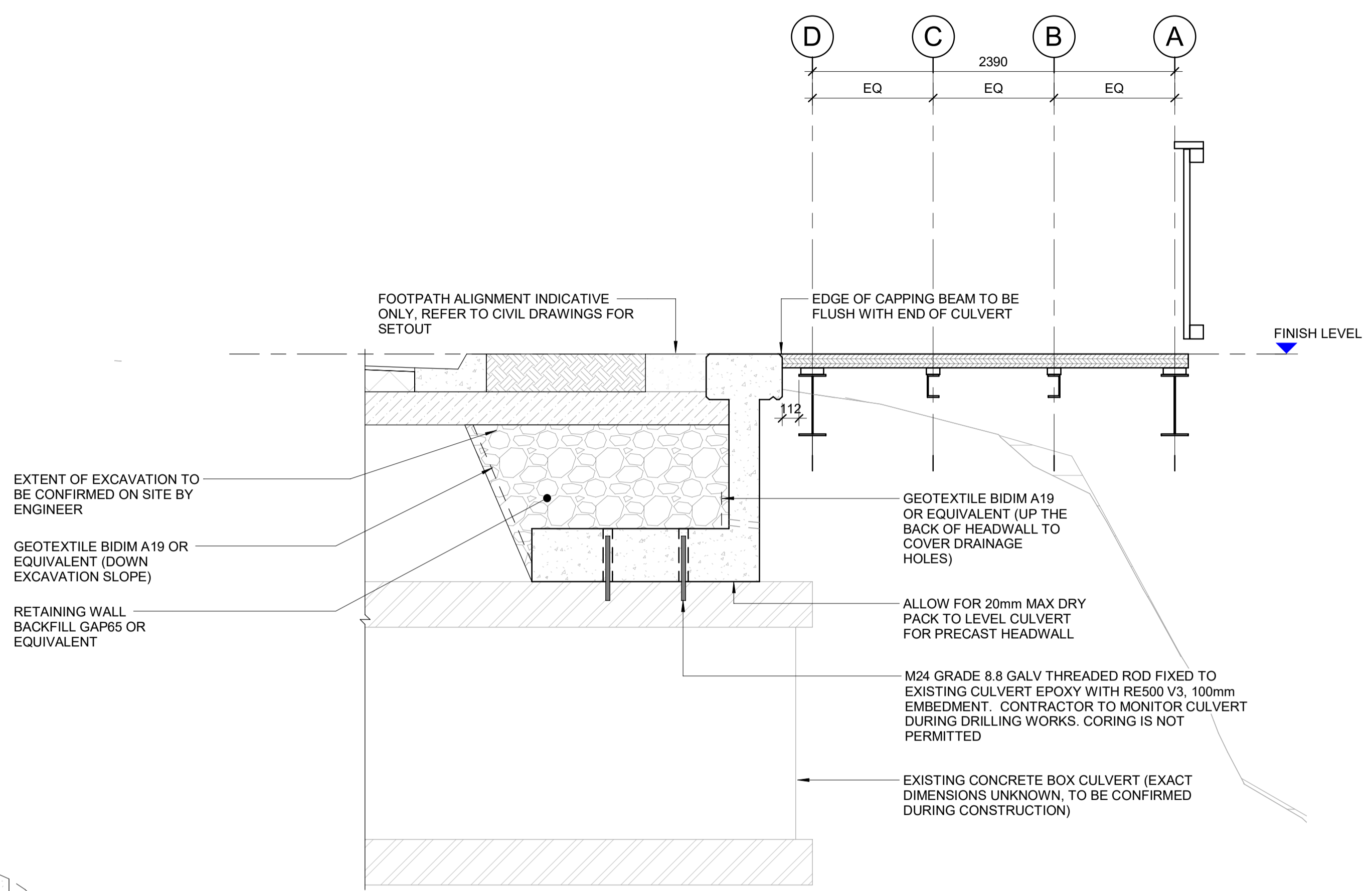
SCALE		ORIGINAL SIZE
1:10 @ A1		A1
DRAWN	DESIGNED	APPROVED
J. RUAS	C. WALLIS	R. GILL
DRAWING VERIFIED	DESIGN VERIFIED	APPROVED DATE
J. DUTTON	J. ORPWOOD	2021-08-31

FOR TENDER

PROJECT				
QUEENSTOWN LAKES DISTRICT COUNCIL WAKATIPU ACTIVE TRAVEL - WATN STAGE 2 ROUTES - ROUTE C5 HORNE CREEK PEDESTRIAN BRIDGE				
TITLE				
SECTIONS AND DETAILS				
WSP PROJECT NO.	PROJ-ORIG-VOL-LVL-TYPE	SHEET NO.	SUITABILITY	REVISION
6-XQ141.00	6XQ141-WSP-01-XX-DR	C813	-	B

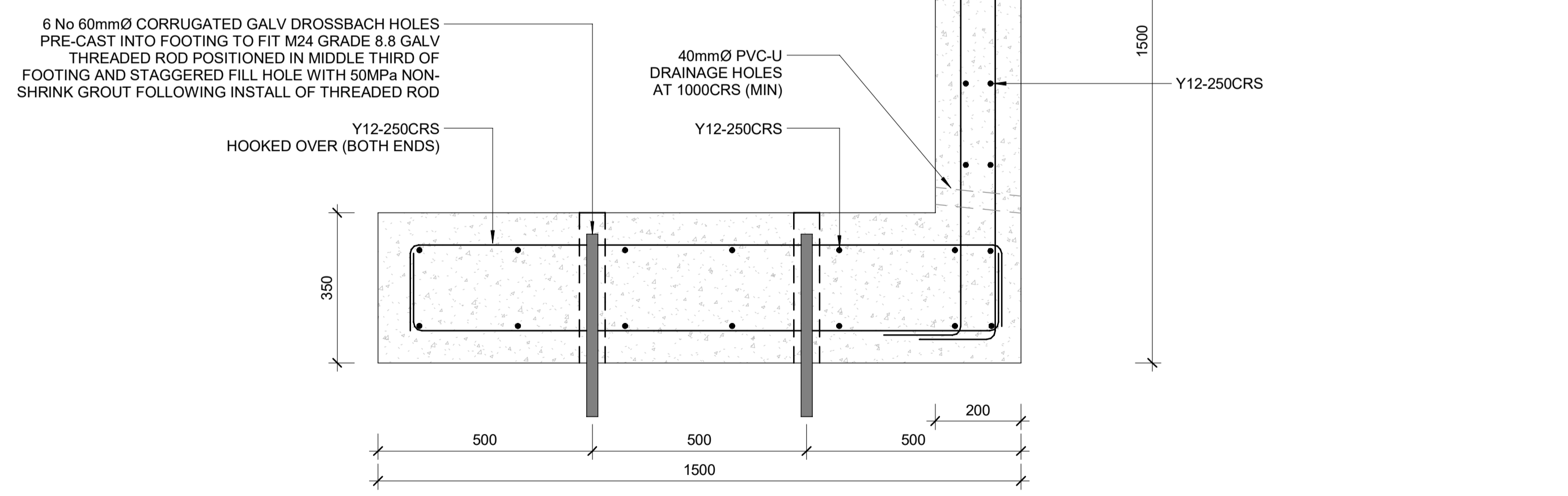


SHEET PILE ELEVATION
SCALE 1 : 50

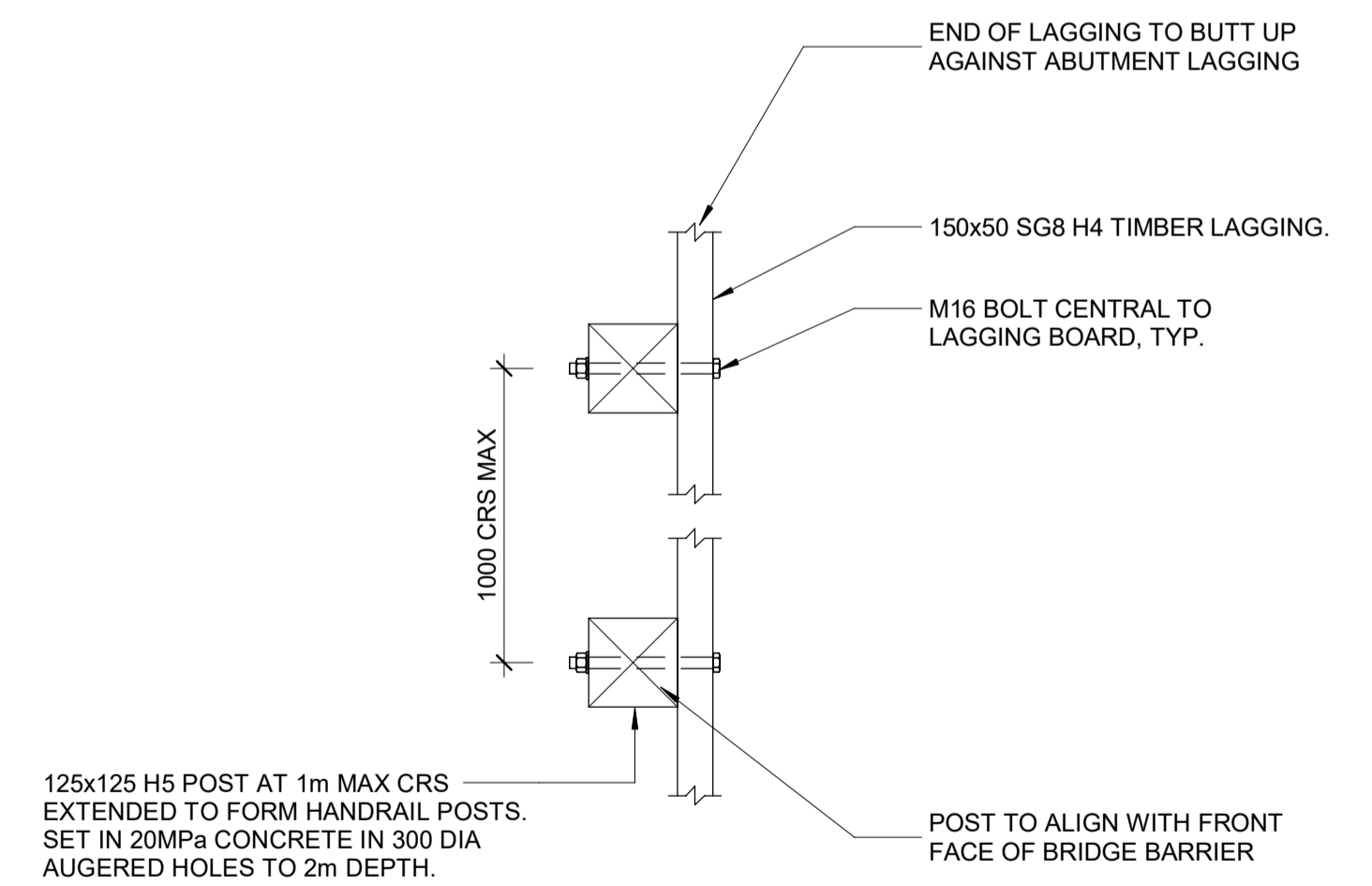


SECTION 4 C814
SCALE 1 : 25

- NOTES:**
1. NEW HEADWALL TO BE POSITIONED ON TOP OF EXISTING CULVERT. WIDTH IS 2.5m APPROX. CONTRACTOR TO CONFIRM ON SITE FOLLOWING EXCAVATION.
 2. ALL CONCRETE STRENGTH TO BE 40MPa AT 28 DAYS, UNLESS OTHERWISE SPECIFIED.
 3. ALL REINFORCING TO BE Y WITH YIELD STRENGTH OF 500MPa UNLESS DEFINED OTHERWISE.
 4. MINIMUM CONCRETE COVER 75mm.
 5. HEADWALL DETAILED TO BE PRECAST BUT CAN BE CAST INSITU.



NEW HEADWALL DETAIL
SCALE 1 : 10



RETAINING WALL DETAIL FOR BRIDGE APPROACHES
SCALE 1 : 10

REVISION	AMENDMENT	APPROVED	DATE
A	DETAILED DESIGN ISSUED FOR CLIENT REVIEW	R.G.	2021-08-03
B	DETAILED DESIGN ISSUED FOR CLIENT APPROVAL	R.G.	2021-08-31



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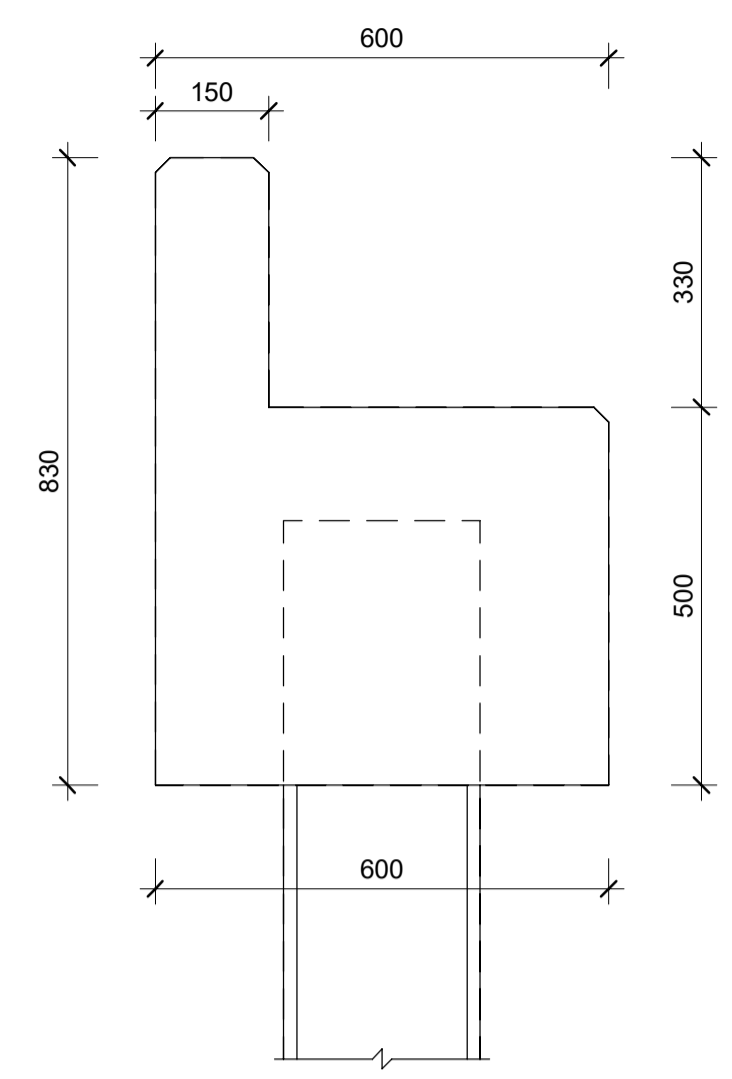
STRUCTURAL

SCALE	DESIGNED	APPROVED
As indicated @ A1	C. WALLIS	R. GILL
ORIGINAL SIZE A1		
DRAWN	DESIGNED	APPROVED
J. RUAS	C. WALLIS	R. GILL
DRAWING VERIFIED	DESIGN VERIFIED	APPROVED DATE
J. DUTTON	J. ORPWOOD	2021-08-31

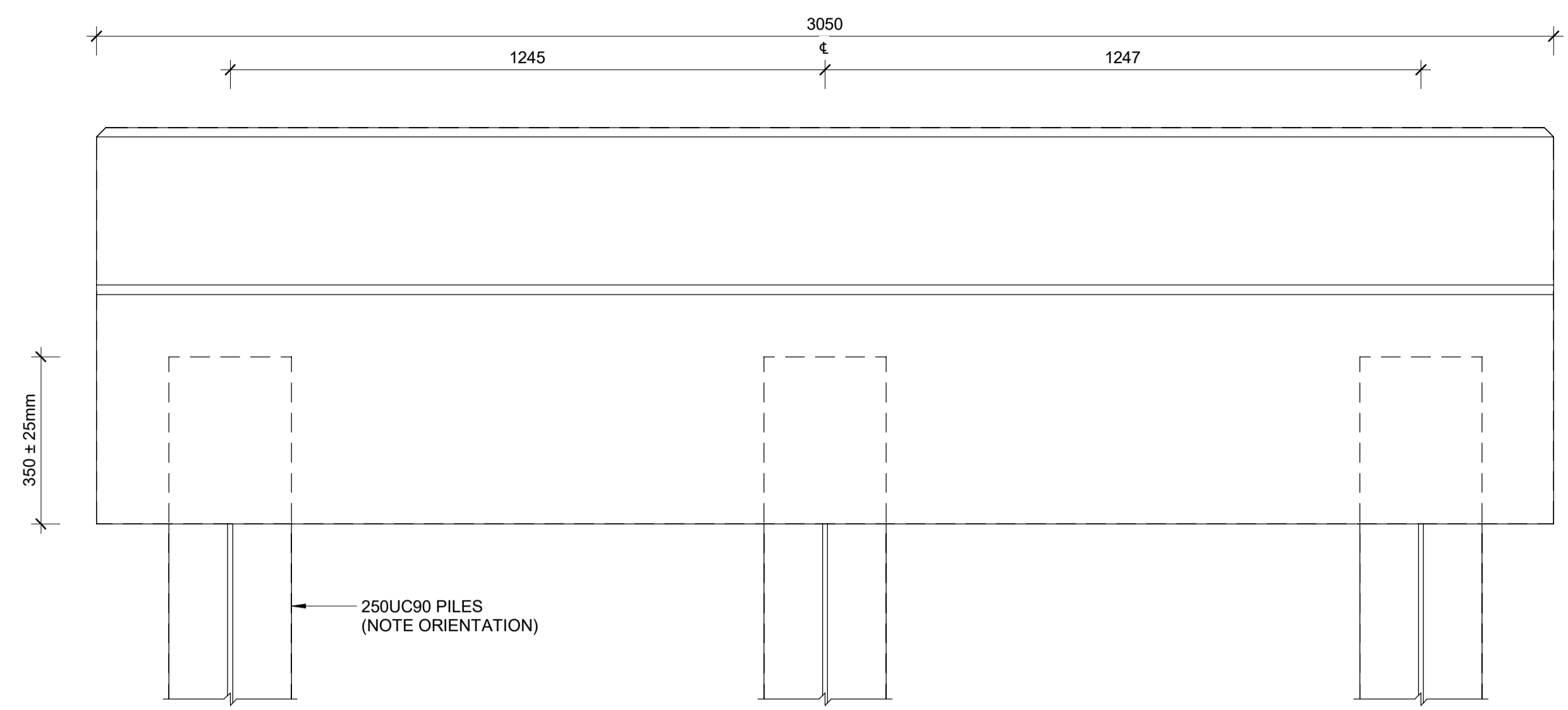
FOR TENDER

PROJECT				
QUEENSTOWN LAKES DISTRICT COUNCIL WAKATIPU ACTIVE TRAVEL - WATN STAGE 2 ROUTES - ROUTE C5 HORNE CREEK PEDESTRIAN BRIDGE				
TITLE				
SECTIONS AND DETAILS				
WSP PROJECT NO.	PROJ-ORIG-VOL-LVL-TYPE	SHEET NO.	SUITABILITY	REVISION
6-QX141.00	6QX141-WSP-01-XX-DR	C814	-	B

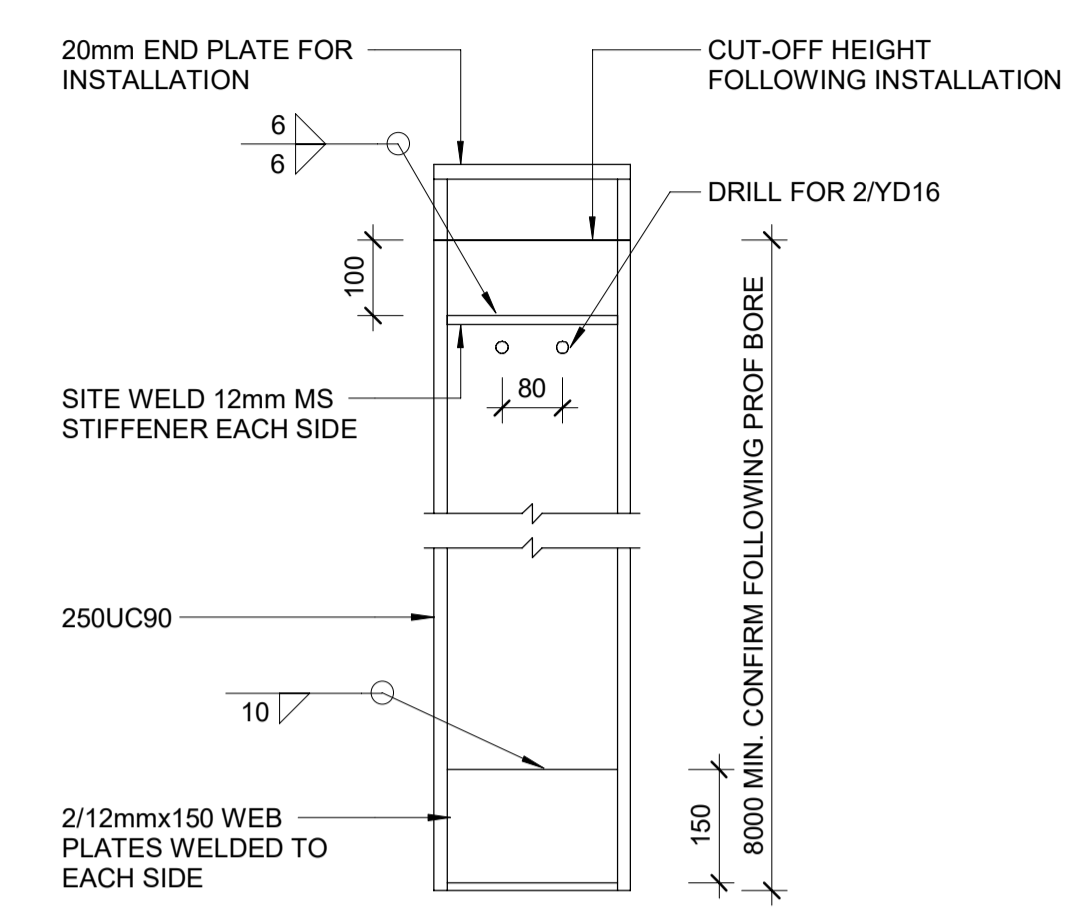
300mm
200mm
100
50
10mm
0



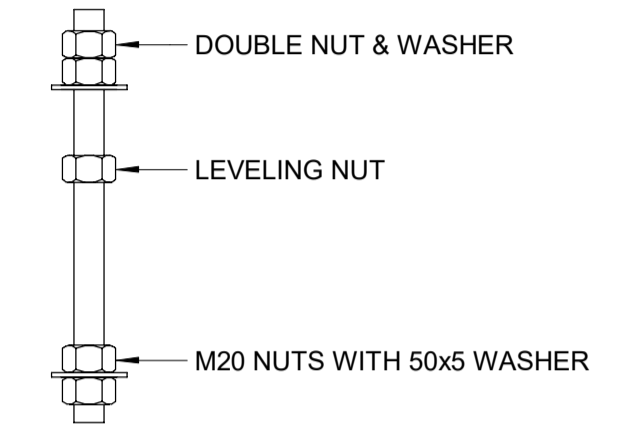
ABUTMENT END ELEVATION
SCALE 1 : 10



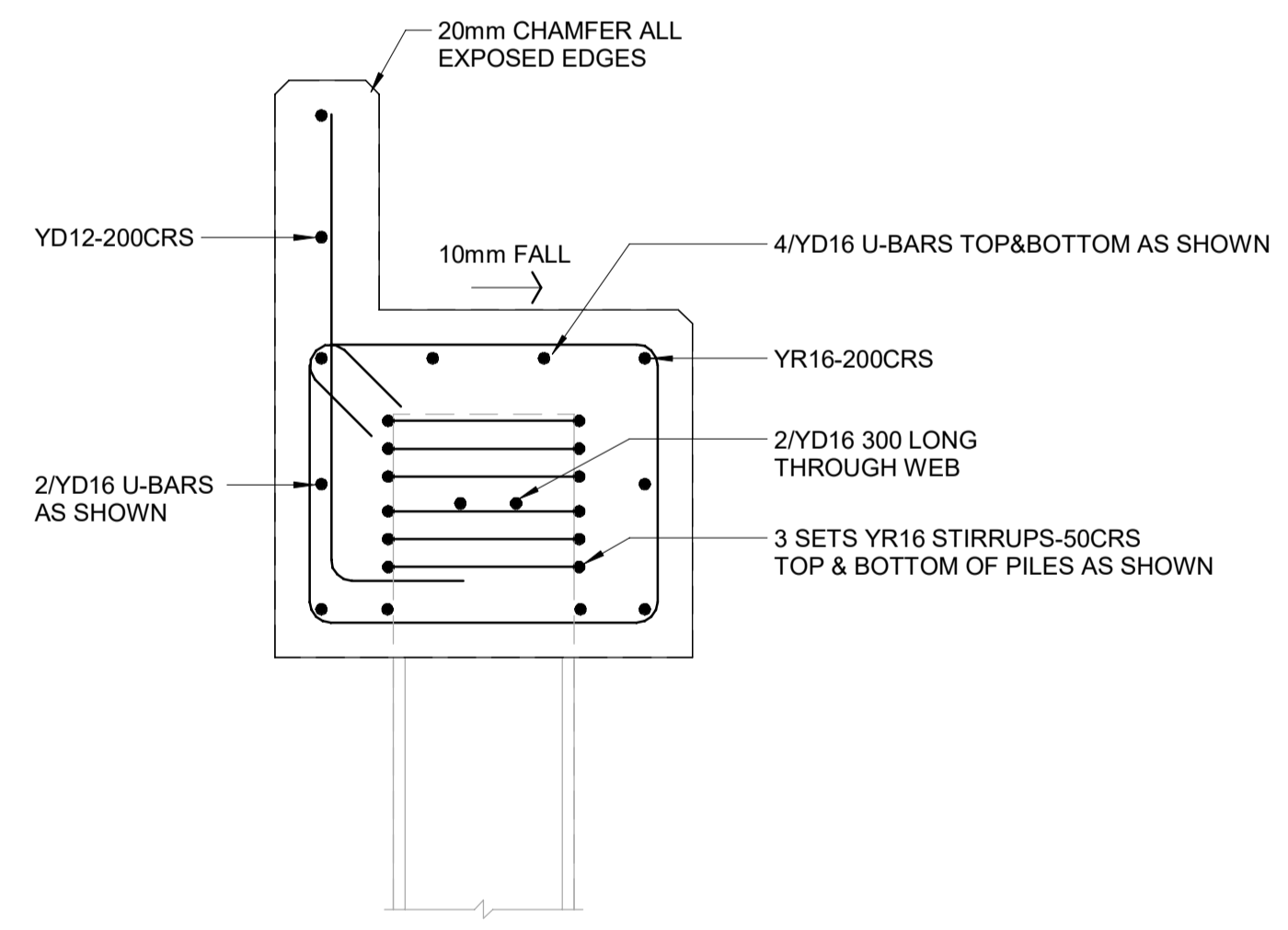
ABUTMENT FRONT ELEVATION
SCALE 1 : 10



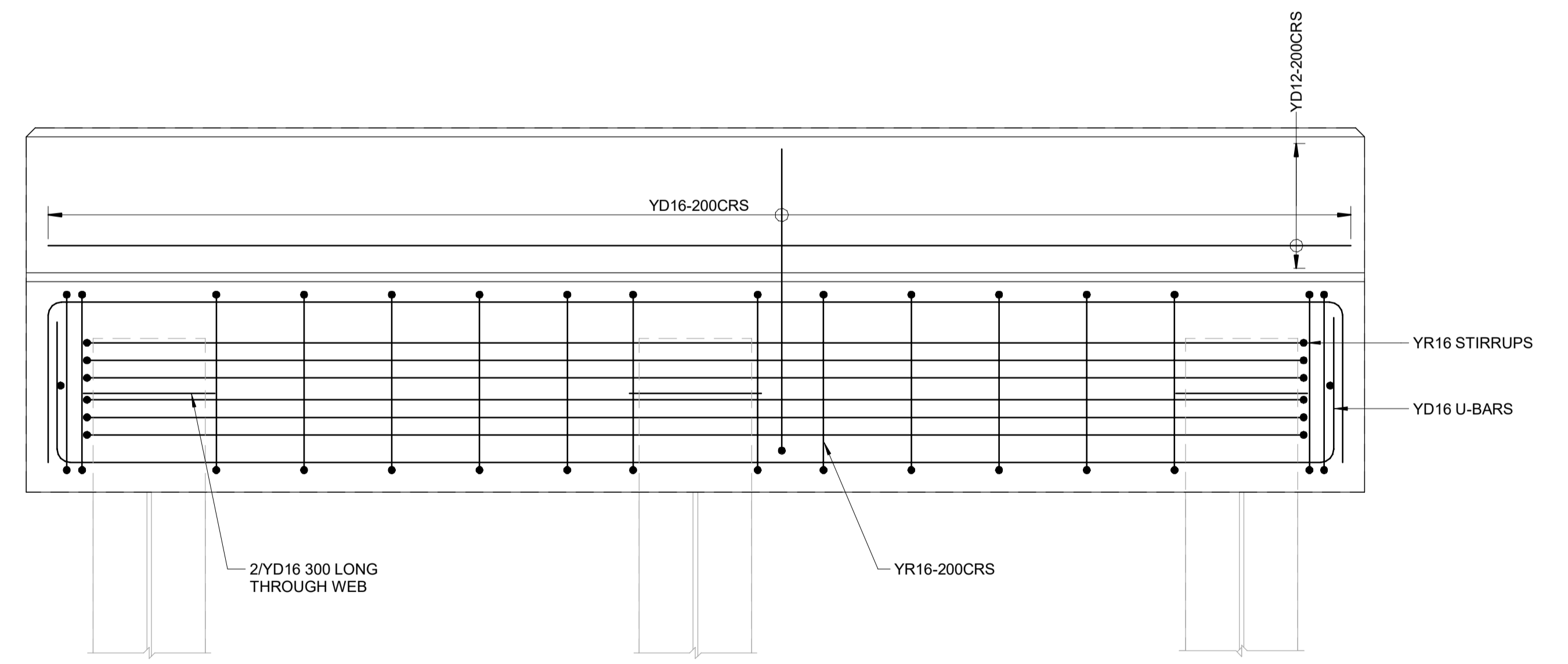
PILE DETAIL
SCALE 1 : 10



ANCHOR BOLT DETAIL
SCALE 1 : 5



ABUTMENT TYPICAL SECTION
SCALE 1 : 10



ABUTMENT REINFORCING DETAIL
SCALE 1 : 10

REVISION	AMENDMENT	APPROVED	DATE
A	DETAILED DESIGN ISSUED FOR CLIENT APPROVAL	R.G.	2021-08-31



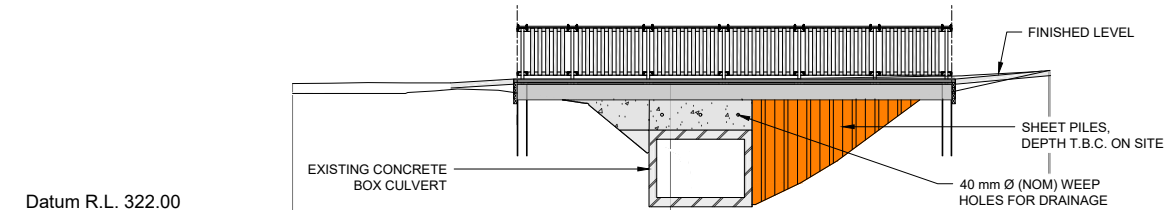
wsp
Queenstown Office
PO Box 2323
Queenstown 9300
New Zealand
+64 3 451 0360

STRUCTURAL

SCALE	ORIGINAL SIZE
As indicated @ A1	A1
DRAWN J. RUAS	DESIGNED C. WALLIS
DRAWING VERIFIED J. DUTTON	DESIGN VERIFIED J. ORPWOOD
APPROVED R. GILL	APPROVED DATE 2021-08-31

FOR TENDER

PROJECT	TITLE	WSP PROJECT NO.	PROJ-ORIG-VOL-LVL-TYPE	SHEET NO.	SUITABILITY	REVISION
QUEENSTOWN LAKES DISTRICT COUNCIL WAKATIPU ACTIVE TRAVEL - WATN STAGE 2 ROUTES - ROUTE C5 HORNE CREEK PEDESTRIAN BRIDGE	ABUTMENT DETAILS	6-QX141.00	6XQ141-WSP-01-XX-DR	C816	-	A



PROPOSED LEVEL	325.53	325.90	325.51	325.51	325.50		325.55	325.56	325.57	325.58	325.59	325.60	325.61	325.62	325.63	325.65	325.68	325.76	325.83	325.83
CUT/FILL	0.30	0.28	0.29	0.28	0.19		0.48	0.81	1.64	1.87	1.89	3.31	3.32	2.73	2.40	1.73	0.48	0.17	0.00	0.00
EXISTING LEVEL	325.23	325.22	325.22	325.23	325.31		325.07	324.76	323.93	323.72	323.70	322.29	322.29	322.89	323.23	323.92	325.19	325.59	325.83	325.83
STATION	6.00	1.00	2.00	3.00	4.00		7.04	8.05	9.05	10.00	10.05	11.05	12.05	13.05	14.05	15.05	16.98	18.88	20.00	20.04

HORNE CREEK BRIDGE - ELEVATION
SCALE 1:100(A1), 1:200(A3)

300 mm
200
100
50
0 10 mm

1:100 @ A1
1:200 @ A3

REVISION	AMENDMENT	APPROVED	DATE
A	DETAILED DESIGN ISSUED FOR CLIENT REVIEW	R. G.	2021-08-02
B	DETAILED DESIGN ISSUED FOR CLIENT APPROVAL	R. G.	2021-08-30
C	DETAILED DESIGN ISSUED FOR TENDER	R. G.	2021-10-22



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New Zealand

CIVIL

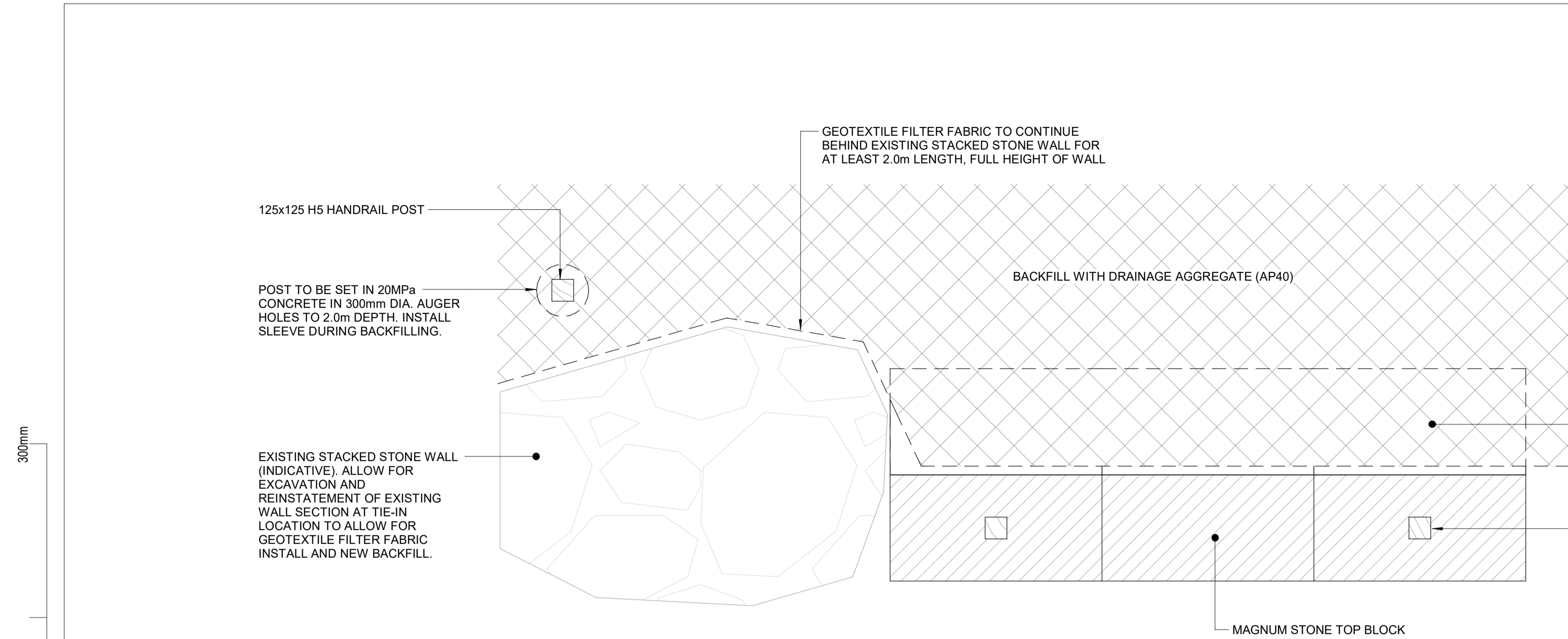
SCALES	ORIGINAL SIZE	
1:100 @ A1	A1	
DRAWN	DESIGNED	APPROVED
P. FIEREK	P. FIEREK	R. GILL
DRAWING VERIFIED	DESIGN VERIFIED	APPROVED DATE
S. FORBES	S. SHERLAW	2021-08-02

FOR TENDER

PROJECT			
QUEENSTOWN LAKES DISTRICT COUNCIL WAKATIPU ACTIVE TRAVEL WATN STAGE 2 ROUTES - ROUTE C5			
TITLE			
HORNE CREEK BRIDGE ELEVATION			
WSP PROJECT NO.	PROJ-ORIG-VOL-LOC-TYPE	SHEET NO.	REVISION
6-XQ141.00	6-XQ141-WSP-01-C5-DR	C817	C

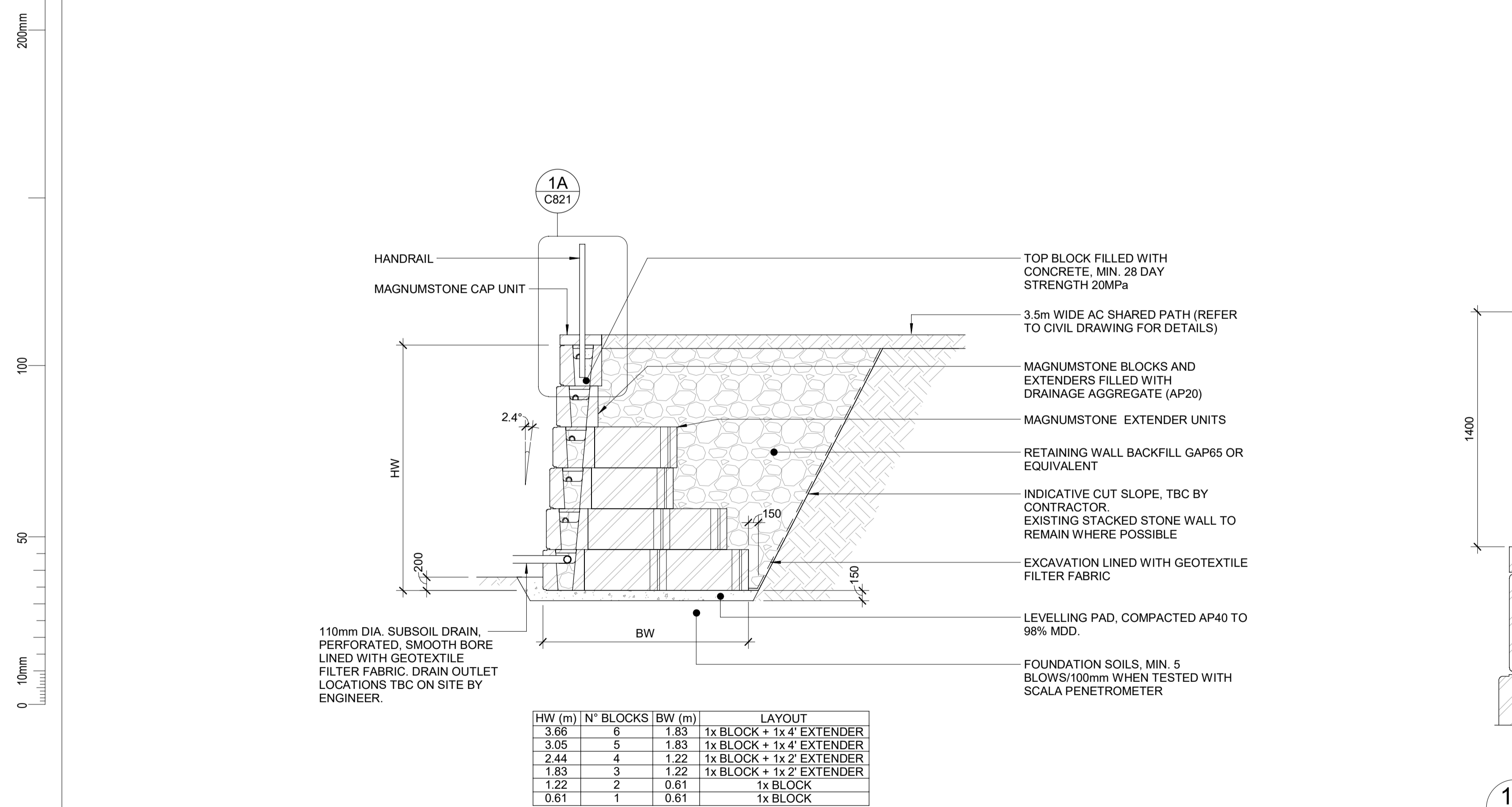
NOTES:

- DRAWINGS TO BE READ IN CONJUNCTION WITH ALL OTHER CONTRACT DRAWINGS AND SPECIFICATION. NOTIFY ANY DISCREPANCY AND OBTAIN ANY INSTRUCTION BEFORE PROCEEDING.
- CHECK AND VERIFY EXISTING DIMENSIONS AND LEVELS ON SITE BEFORE COMMENCING CONSTRUCTION, ORDERING MATERIAL OR OFF-SITE FABRICATION.
- REFER TO CIVIL DRAWINGS FOR RETAINING WALL ALIGNMENTS.
- MAGNUMSTONE WALL TO BE INSTALLED AS PER SUPPLIERS GUIDELINES.
- HALF HEIGHT BLOCKS MAY BE USED WHERE WALL BASE STEPS. BLOCKS TO BE ANGLED TO SUIT WALL ALIGNMENT AS PER SUPPLIERS GUIDELINES .
- EXISTING STACKED STONE WALL TO REMAIN IN PLACE WHERE POSSIBLE, WITH TOP 500mm TO BE REMOVED TO ENABLE SHARED PATH PAVEMENT CONSTRUCTION.
- EXPECTED FOUNDATION SUBSOILS: MEDIUM DENSE TO DENSE GRAVELLY SAND/SANDY GRAVEL.
- REFER TO STRUCTURAL SPECIFICATION FOR HOLD POINTS.
- CONTRACTOR TO LOCATE AND PROTECT ALL EXISTING UNDERGROUND SERVICES, AND SHALL NOTIFY THE ENGINEER OF ANY CLASHES.
- CONTRACTOR IS RESPONSIBLE FOR STABILITY OF ALL TEMPORARY CUT SLOPES.
- ALL FIXINGS TO BE STAINLESS STEEL.
- RETAINING WALL LAGGING TO BE H4 TREATED UNO. TIMBER POSTS TO BE H5 TREATED UNO. ALL OTHER TIMBER TO BE H3.2 TREATED UNO.



MAGNUM STONE TO EXISTING STACKED STONE RETAINING WALL INTERFACE - PLAN VIEW

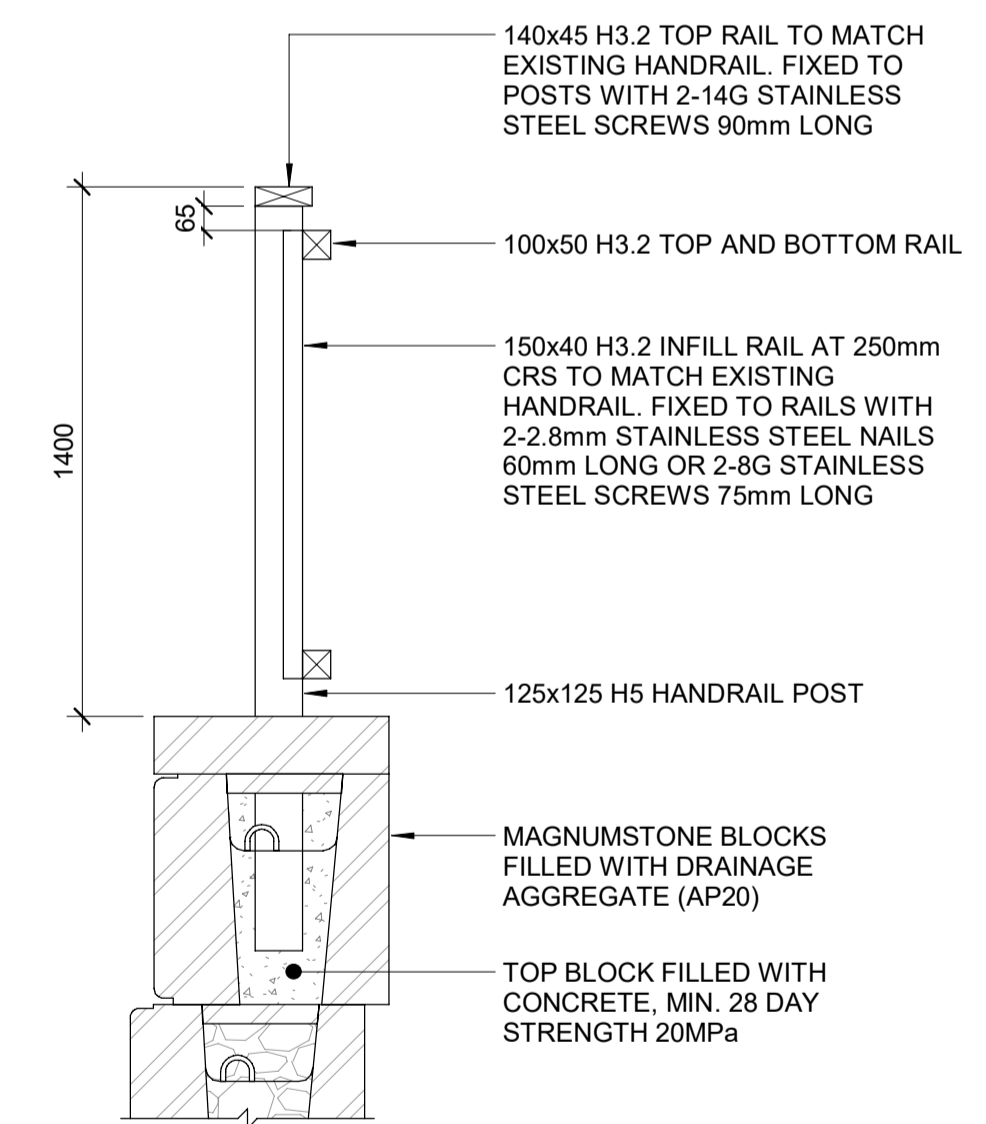
SCALE 1 : 20



MAGNUM STONE RETAINING WALL (TYP. SECTION)

SCALE 1 : 50

HW (m)	N° BLOCKS	BW (m)	LAYOUT
3.66	6	1.83	1x BLOCK + 1x 4' EXTENDER
3.05	5	1.83	1x BLOCK + 1x 4' EXTENDER
2.44	4	1.22	1x BLOCK + 1x 2' EXTENDER
1.83	3	1.22	1x BLOCK + 1x 2' EXTENDER
1.22	2	0.61	1x BLOCK
0.61	1	0.61	1x BLOCK



1A DETAIL

SCALE 1 : 20

REVISION	AMENDMENT	APPROVED	DATE
A	DETAILED DESIGN ISSUED FOR CLIENT REVIEW	R.G.	2021-08-02
B	DETAILED DESIGN ISSUED FOR CLIENT APPROVAL	R.G.	2021-08-31
C	DETAILED DESIGN ISSUED FOR TENDER	R.G.	2021-10-22



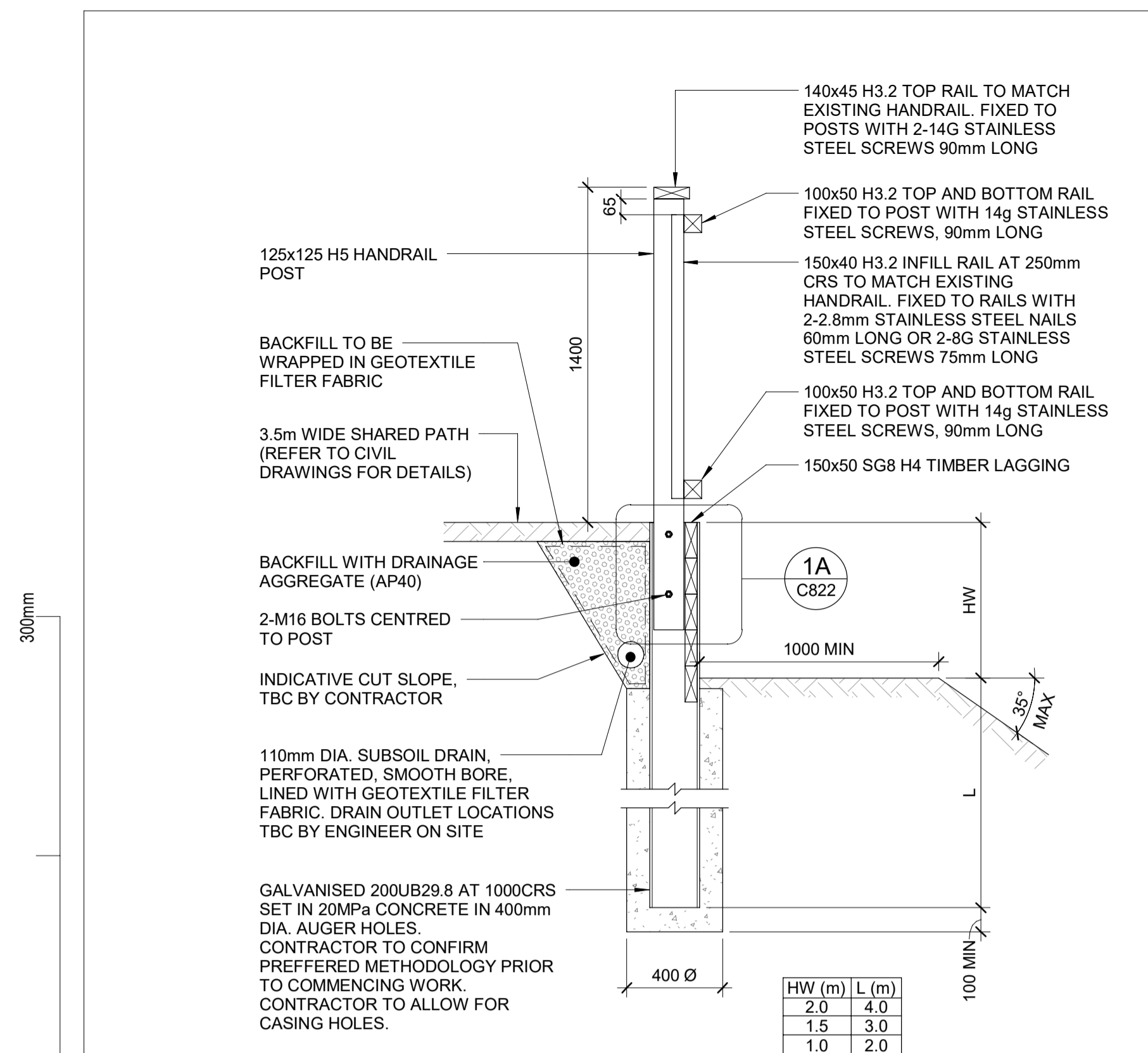
wsp
Queenstown Office
PO Box 2323
Queenstown 9300
New Zealand
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STRUCTURAL

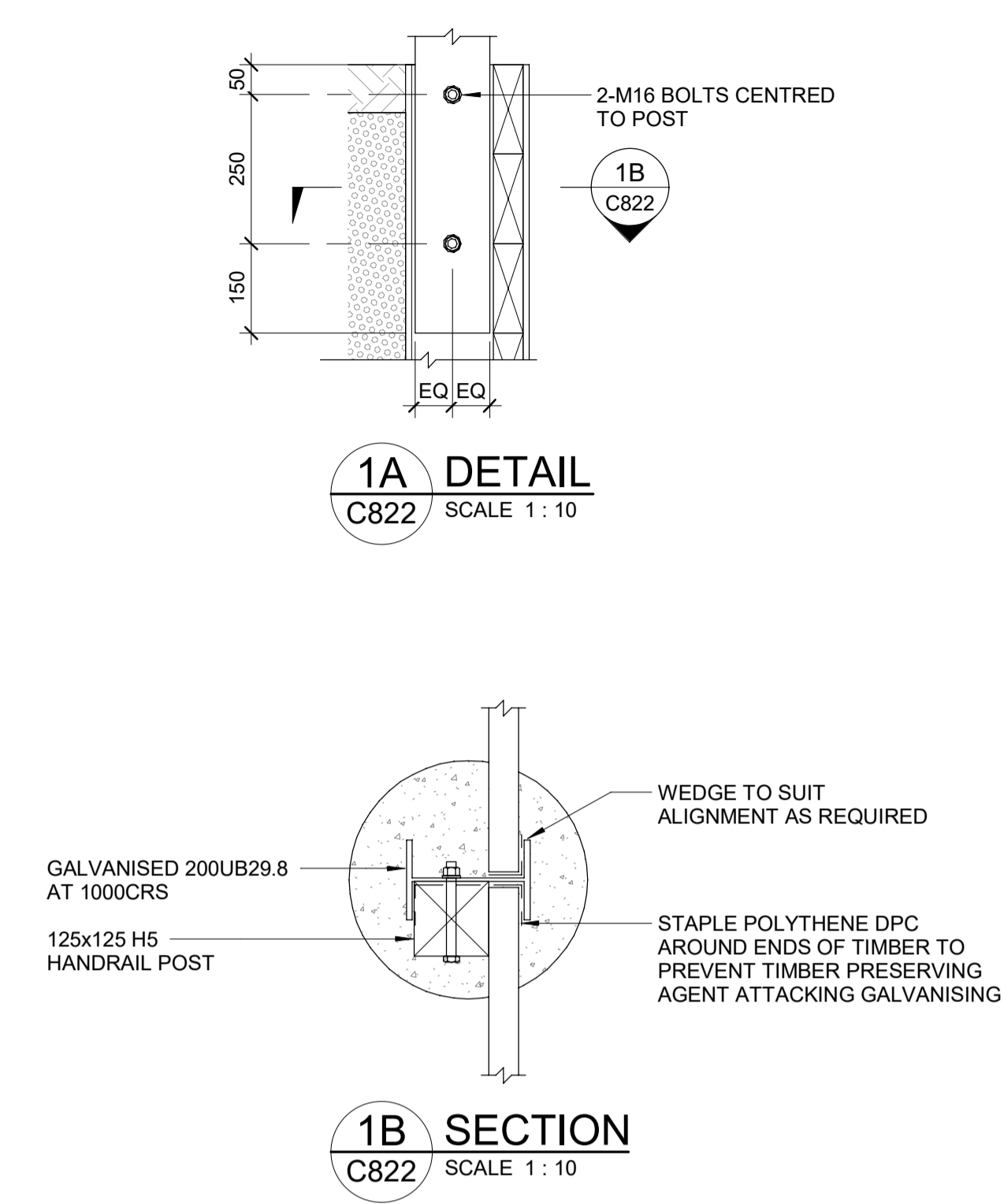
SCALE	ORIGINAL SIZE
As indicated @ A1	A1
DRAWN	DESIGNED
J. RUAS	M. PHILLIPS
DRAWING VERIFIED	DESIGN VERIFIED
J. DUTTON	R. BOND
	APPROVED DATE
	2021-10-22

FOR TENDER

PROJECT				
QUEENSTOWN LAKES DISTRICT COUNCIL				
WAKATIPU ACTIVE TRAVEL - WATN STAGE 2 ROUTES - ROUTE C5				
CAMP STREET AND ROBINS ROAD RETAINING WALLS				
TITLE				
CAMP STREET RETAINING WALL DETAILS				
WSP PROJECT NO.	PROJ-ORIG-VOL-LVL-TYPE	SHEET NO.	SUITABILITY	REVISION
6-XQ141.00	6XQ141-WSP-01-XX-DR	C821	-	C

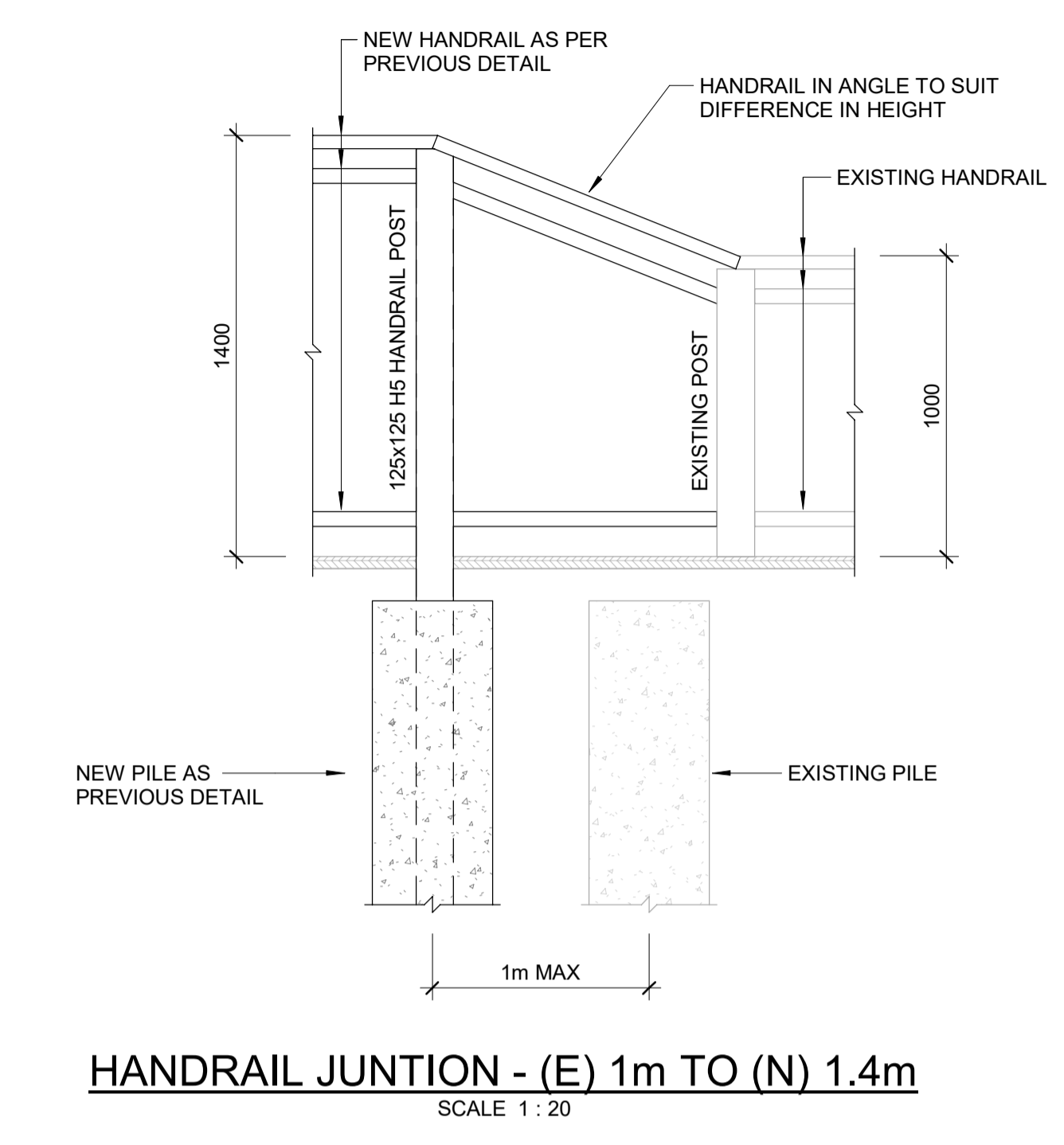


ROBINS ROAD RETAINING WALL (TYP. SECTION)
SCALE 1 : 20

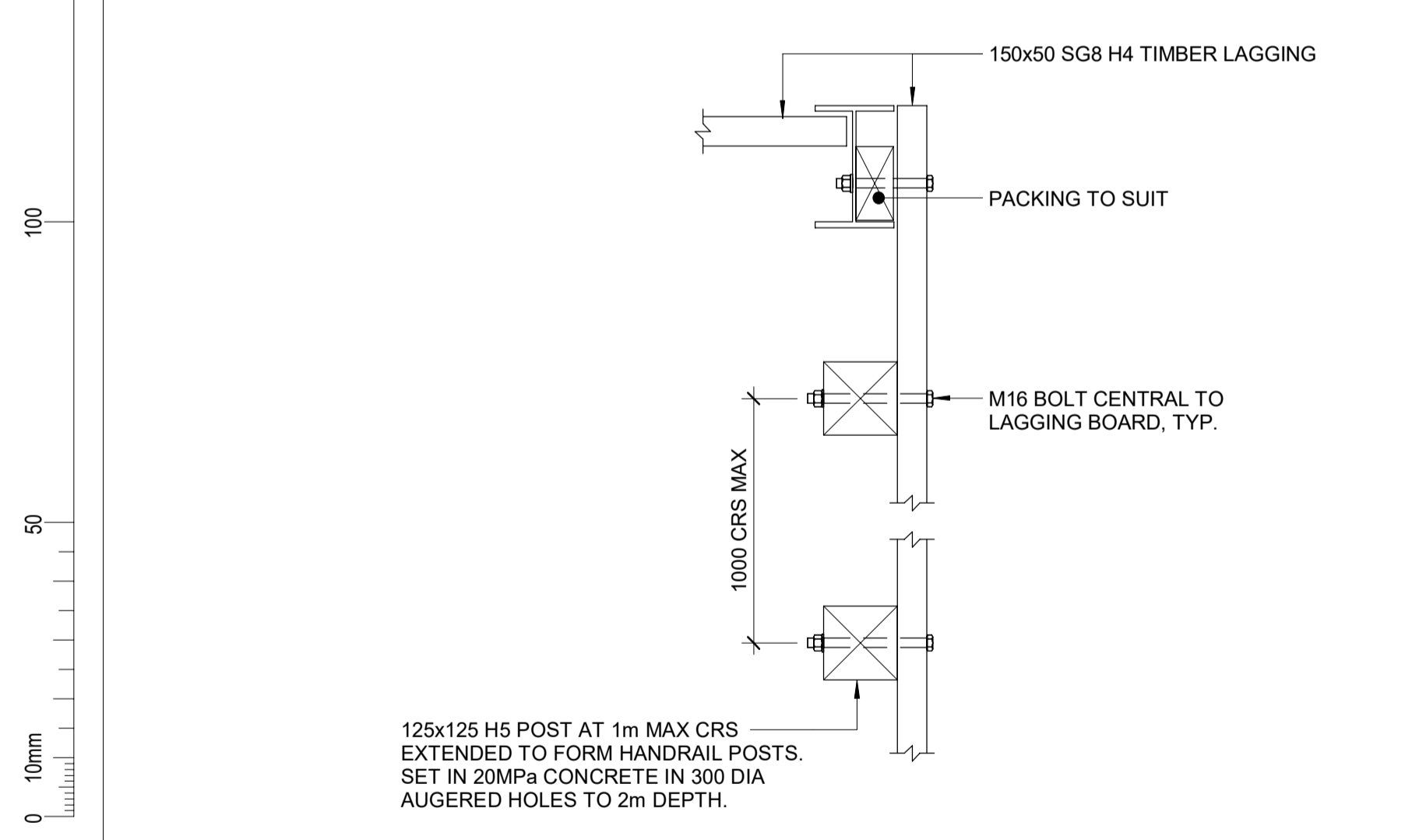


1A DETAIL
C822 SCALE 1 : 10

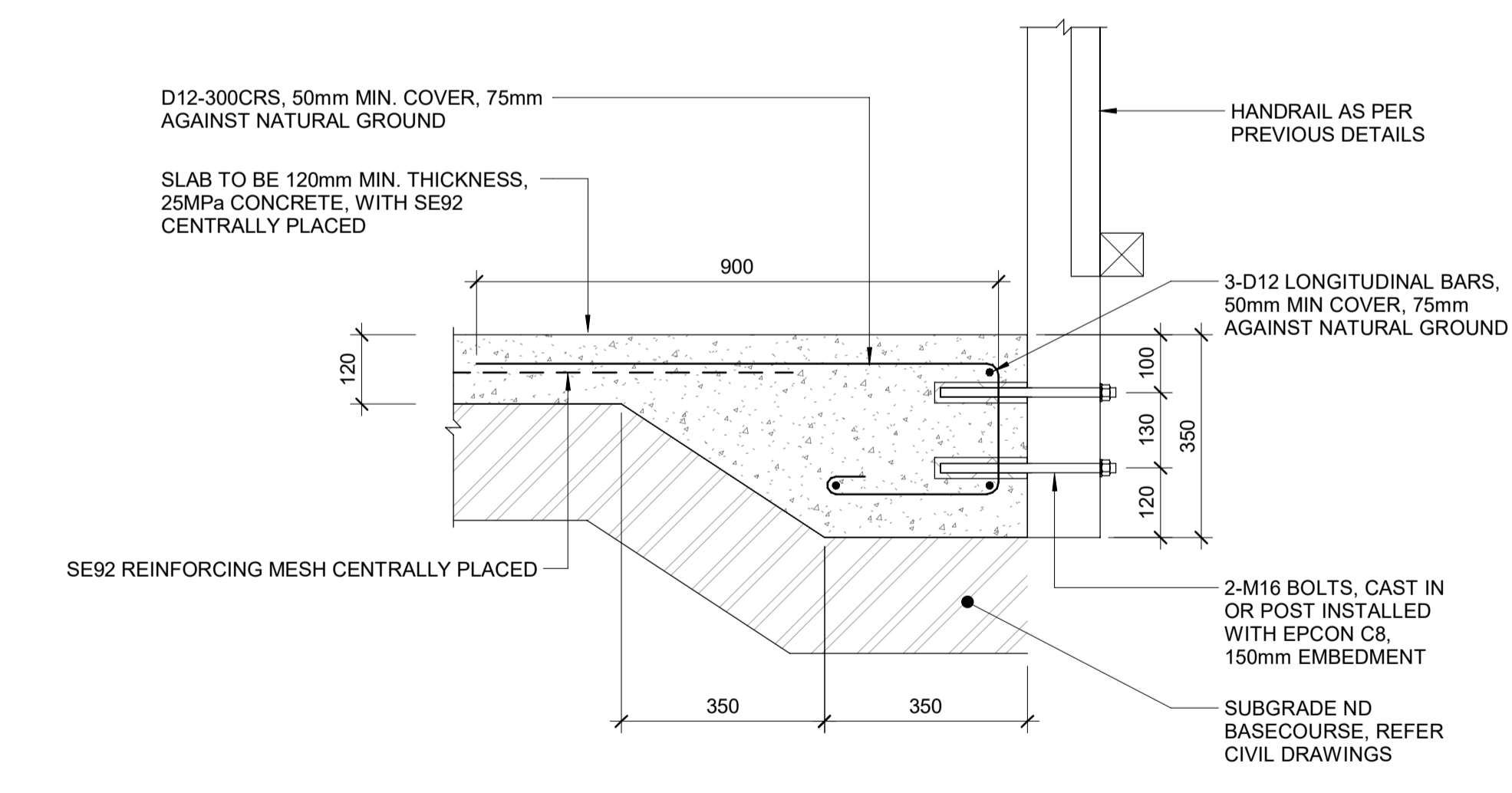
1B SECTION
C822 SCALE 1 : 10



HANDRAIL JUNCTION - (E) 1m TO (N) 1.4m
SCALE 1 : 20



CORNER DETAIL AT RECREATION GROUND CARPARK STAIRS
SCALE 1 : 10



SLAB EDGE THICKENING WITH HANDRAIL
SCALE 1 : 10

- NOTES:**
- DRAWINGS TO BE READ IN CONJUNCTION WITH ALL OTHER CONTRACT DRAWINGS AND SPECIFICATION. NOTIFY ANY DISCREPANCY AND OBTAIN ANY INSTRUCTION BEFORE PROCEEDING.
 - CHECK AND VERIFY EXISTING DIMENSIONS AND LEVELS ON SITE BEFORE COMMENCING CONSTRUCTION, ORDERING MATERIAL OR OFF-SITE FABRICATION.
 - REFER TO CIVIL DRAWINGS FOR RETAINING WALL ALIGNMENTS.
 - EXPECTED FOUNDATION SUBSOILS: MEDIUM DENSE TO DENSE GRAVELLY SAND/SANDY GRAVEL.
 - REFER TO STRUCTURAL SPECIFICATION FOR HOLD POINTS.
 - CONTRACTOR TO LOCATE AND PROTECT ALL EXISTING UNDERGROUND SERVICES, AND SHALL NOTIFY THE ENGINEER OF ANY CLASHES.
 - CONTRACTOR IS RESPONSIBLE FOR STABILITY OF ALL TEMPORARY CUT SLOPES.
 - ALL FIXINGS TO BE STAINLESS STEEL.
 - RETAINING WALL LAGGING TO BE H4 TREATED UNO. TIMBER POSTS TO BE H5 TREATED UNO. ALL OTHER TIMBER TO BE H3.2 TREATED UNO.
 - STEEL TO BE HOT DIPPED GALVANISED OR SPECIFIED PAINT SYSTEM. REFER TO STRUCTURAL REPORT AND SPECIFICATION.
 - CONTRACTOR TO ALLOW TO SLEEVE ALL AUGERED HOLES.

REVISION	AMENDMENT	APPROVED	DATE
A	DETAILED DESIGN ISSUED FOR CLIENT REVIEW	R.G.	2021-08-02
B	DETAILED DESIGN ISSUED FOR CLIENT APPROVAL	R.G.	2021-08-31
C	DETAILED DESIGN ISSUED FOR TENDER	R.G.	2021-10-22



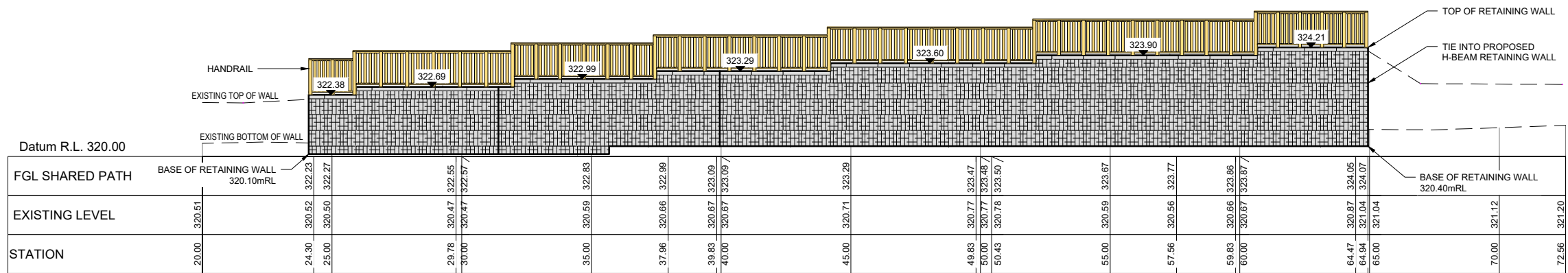
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PO Box 2323
Queenstown 9300
New Zealand
+64 3 451 0360

STRUCTURAL

SCALE	ORIGINAL SIZE
As indicated @ A1	A1
DRAWN J. RUAS	DESIGNED M. PHILLIPS
DRAWING VERIFIED J. DUTTON	APPROVED R. GILL
DESIGN VERIFIED R. BOND	APPROVED DATE 2021-10-22

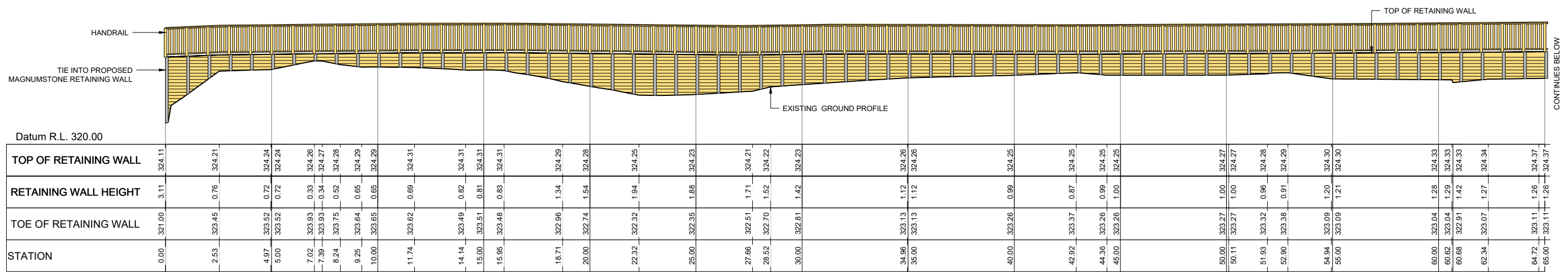
FOR TENDER

PROJECT				
QUEENSTOWN LAKES DISTRICT COUNCIL WAKATIPU ACTIVE TRAVEL - WATN STAGE 2 ROUTES - ROUTE C5 CAMP STREET AND ROBINS ROAD RETAINING WALLS				
TITLE				
ROBINS ROAD RETAINING WALL DETAILS				
WSP PROJECT NO.	PROJ-ORIG-VOL-LVL-TYPE	SHEET NO.	SUITABILITY	REVISION
6-XQ141.00	6XQ141-WSP-01-XX-DR	C822	-	C

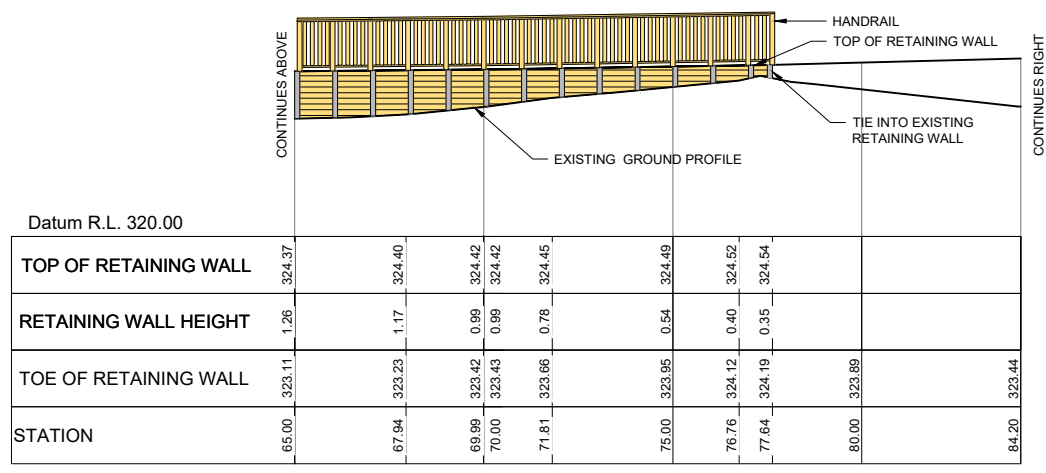


STATION	EXISTING LEVEL	FGL SHARED PATH
20.00	320.51	
24.30	320.52	322.23
25.00	320.50	322.27
29.78	320.47	322.55
30.00	320.47	322.57
35.00	320.59	322.83
37.96	320.66	322.99
39.83	320.67	323.09
40.00	320.67	323.09
45.00	320.71	323.29
49.83	320.77	323.47
50.00	320.77	323.48
50.43	320.78	323.50
55.00	320.59	323.67
57.56	320.56	323.77
59.83	320.66	323.86
60.00	320.67	323.87
64.47	320.87	324.05
64.94	321.04	324.07
66.00	321.04	
70.00	321.12	
72.56	321.20	

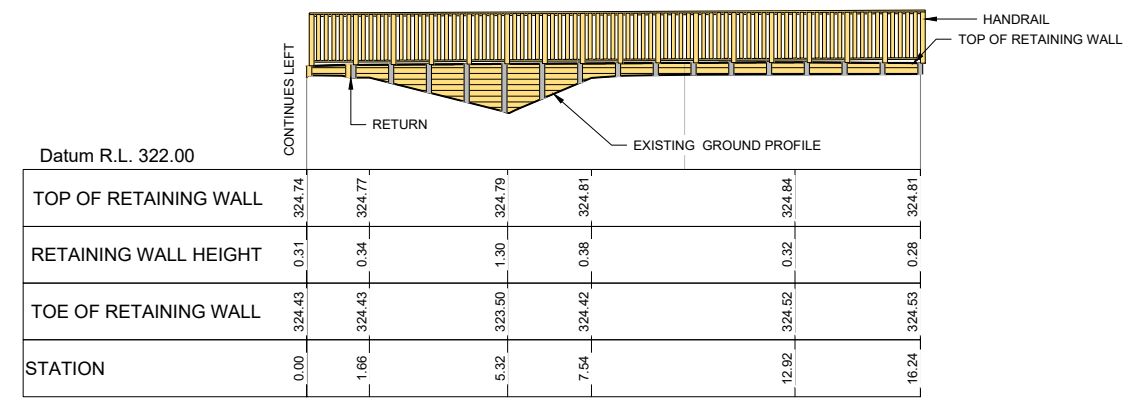
PROPOSED MAGNUMSTONE RETAINING WALL
UNFOLDED ELEVATION
 (REFER TO SHEET C219 FOR LOCATION)
 SCALE 1:100(A1), 1:200(A3)



STATION	TOE OF RETAINING WALL	RETAINING WALL HEIGHT	TOP OF RETAINING WALL
0.00	321.00	3.11	324.11
2.53	323.45	0.76	324.21
4.97	323.52	0.72	324.24
5.00	323.52	0.72	324.24
7.02	323.93	0.33	324.26
7.39	323.93	0.34	324.27
8.24	323.75	0.52	324.28
9.25	323.64	0.65	324.29
10.00	323.65	0.65	324.29
11.74	323.62	0.69	324.31
14.14	323.49	0.82	324.31
15.00	323.51	0.81	324.31
15.95	323.48	0.83	324.31
18.71	322.96	1.34	324.29
20.00	322.74	1.54	324.28
22.32	322.32	1.94	324.25
25.00	322.35	1.88	324.23
27.66	322.51	1.71	324.21
29.52	322.70	1.52	324.22
30.00	322.81	1.42	324.23
34.96	323.13	1.12	324.26
35.00	323.13	1.12	324.26
40.00	323.26	0.99	324.25
42.92	323.37	0.87	324.25
44.36	323.26	0.99	324.25
45.00	323.26	1.00	324.25
50.00	323.27	1.00	324.27
50.11	323.27	1.00	324.27
51.93	323.32	0.96	324.28
52.90	323.38	0.91	324.29
54.94	323.09	1.20	324.30
55.00	323.09	1.21	324.30
60.00	323.04	1.28	324.33
60.62	323.04	1.29	324.33
60.68	322.91	1.42	324.33
62.34	323.07	1.27	324.34
64.72	323.11	1.26	324.37
65.00	323.11	1.26	324.37

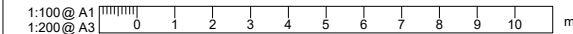


STATION	TOE OF RETAINING WALL	RETAINING WALL HEIGHT	TOP OF RETAINING WALL
65.00	323.11	1.26	324.37
67.94	323.23	1.17	324.40
69.99	323.42	0.99	324.42
70.00	323.43	0.99	324.42
71.81	323.66	0.78	324.45
75.00	323.95	0.54	324.49
76.76	324.12	0.40	324.52
77.64	324.19	0.35	324.54
80.00	323.89		
84.20	323.44		



STATION	TOE OF RETAINING WALL	RETAINING WALL HEIGHT	TOP OF RETAINING WALL
0.00	324.43	0.31	324.74
1.66	324.43	0.34	324.77
5.32	323.50	1.30	324.79
7.54	324.42	0.38	324.81
12.99	324.52	0.32	324.84
16.24	324.53	0.28	324.81

PROPOSED H-BEAM RETAINING WALL
UNFOLDED ELEVATION
 (REFER TO SHEET C218 - C219 FOR LOCATION)
 SCALE 1:100(A1), 1:200(A3)



REVISION	AMENDMENT	APPROVED	DATE
A	DETAILED DESIGN ISSUED FOR CLIENT REVIEW	R. GILL	2021-08-02
B	DETAILED DESIGN ISSUED FOR CLIENT APPROVAL	R. GILL	2021-08-30
C	DETAILED DESIGN ISSUED FOR TENDER	R. GILL	2021-10-22



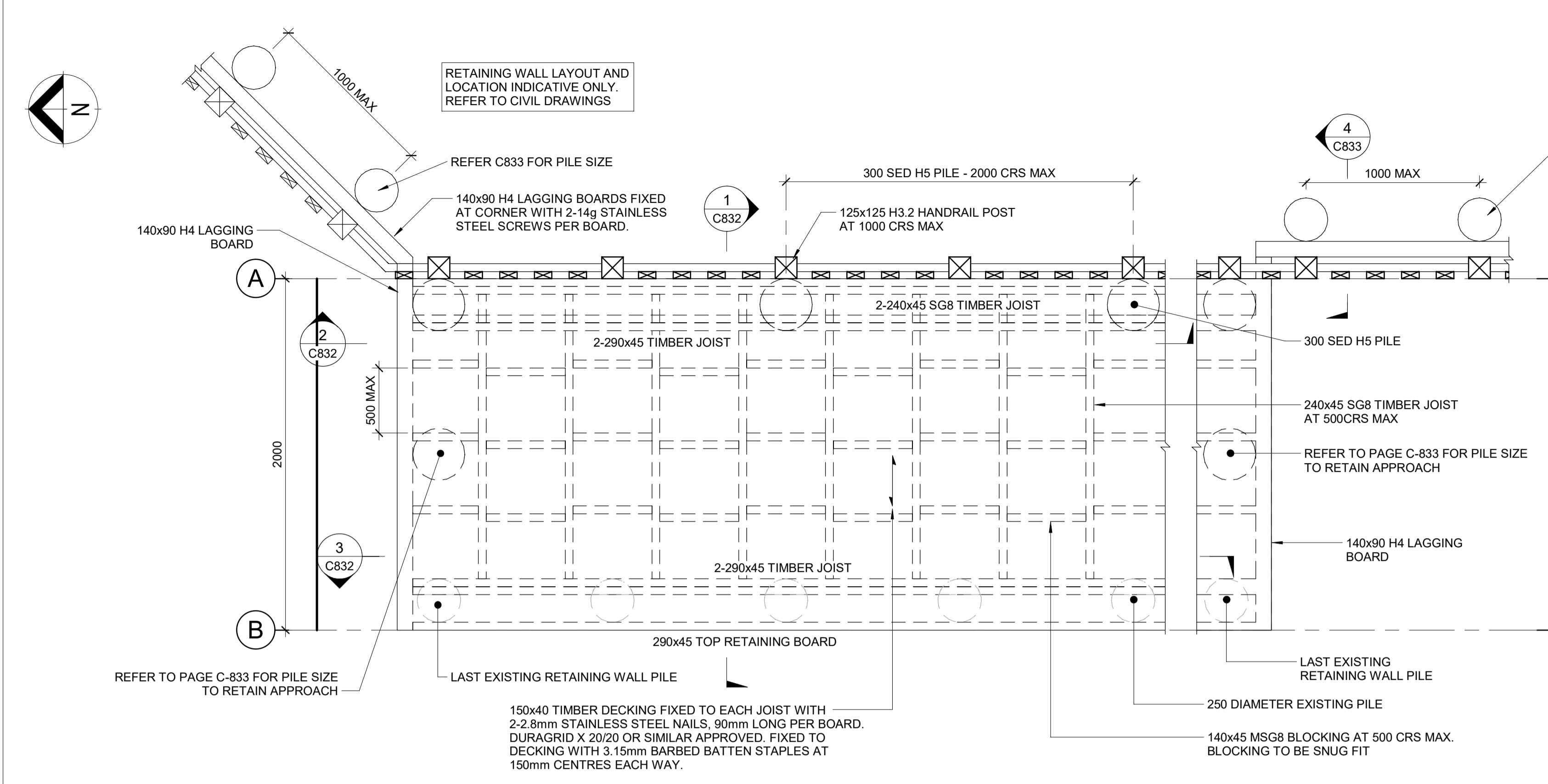
WSP
 Queenstown Office
 +64 3 451 0360
 PO Box 2323
 Queenstown 9300
 New Zealand

CIVIL

SCALES	DESIGNED	APPROVED
1:100 @ A1	P. FIEREK	R. GILL
	P. FIEREK	R. GILL
	S. SHERLAW	2021-08-02

FOR TENDER

PROJECT	TITLE	WSP PROJECT NO.	PROJ-ORIG-VOL-LOC-TYPE	SHEET NO.	REVISION
QUEENSTOWN LAKES DISTRICT COUNCIL WAKATIPU ACTIVE TRAVEL WATN STAGE 2 ROUTES - ROUTE C5	CAMP STREET RETAINING WALL ELEVATIONS	6-XQ141.00	6-XQ141-WSP-01-C5-DR	C823	C



PLAN VIEW
SCALE 1 : 20



3D - VIEW

NOTES:

1. DRAWINGS TO BE READ IN CONJUNCTION WITH ALL OTHER CONTRACT DRAWINGS AND SPECIFICATION. NOTIFY ANY DISCREPANCY AND OBTAIN ANY INSTRUCTION BEFORE PROCEEDING.
2. CHECK AND VERIFY EXISTING DIMENSIONS AND LEVELS ON SITE BEFORE COMMENCING CONSTRUCTION, ORDERING MATERIAL OR OFF-SITE FABRICATION.
3. EXISTING STRUCTURE IS SHOWN INDICATIVELY ONLY. VERIFY DIMENSIONS & CONFIGURATION OF EXISTING STRUCTURE ON SITE BEFORE COMMENCING ANY WORKS & NOTIFY ENGINEER IF ANY DIFFERENCES TO WHAT IS INDICATED ON THE DWGS ARE ENCOUNTERED.
4. EXISTING SERVICES NOT SHOWN. VERIFY LOCATION OF ALL EXISTING SERVICES ON SITE BEFORE COMMENCING ANY WORKS.
5. ALL FIXINGS TO BE STAINLESS STEEL U.N.O.
6. 290x45 RETAINING JOIST TO BE H4 TREATED U.N.O. TIMBER POSTS TO BE H5 TREATED U.N.O. ALL OTHER TIMBER TO BE H3.2 TREATED U.N.O.
7. THE FOLLOWING GEOTECHNICAL REPORTS HAVE BEEN PREPARED FOR THIS PROJECT BY WSP:
 - a. WATN STAGE 2 - PRELIMINARY GEOTECHNICAL ASSESSMENT REPORT (9 OCTOBER 2020)
 - b. WATN STAGE 2 - GEOTECHNICAL INTERPRETIVE REPORT (5 FEBRUARY 2021)
8. ADDITIONAL GEOTECHNICAL INVESTIGATION INFORMATION SPECIFIC TO THE STRUCTURES INCLUDED IN THIS DRAWING SET IS APPENDED TO THE DESIGN FEATURES REPORT.
9. FOUNDATION SIZES AND DETAILS ARE BASED ON GROUND CONDITION ASSUMPTIONS NOTED ON DRAWINGS. IF CONDITIONS DIFFER TO THOSE STATED, THE CONTRACTOR MUST NOTIFY THE ENGINEER.
10. A PROOF BORE IS REQUIRED AT ROBBINS ROAD BRIDGE, HORNE CREEK CULVERT AND GORGE ROAD BOARDWALK TO CONFIRM GROUND CONDITIONS AT FOUNDING DEPTH. THE ENGINEER SHALL OBSERVE THE PROOF BORE TO CONFIRM FOUNDATION SIZES AND DETAILS ARE APPROPRIATE PRIOR TO CONSTRUCTION AND ORDERING OF MATERIALS.
11. THE CONTRACTOR MUST VERIFY GROUND CONDITIONS DURING FOUNDATION EXCAVATION AND REPORT TO THE ENGINEER.
12. CONTRACTOR TO ALLOW TO CASE ALL AUGERED HOLES.
13. LAGGING BOARDS TO BE FIXED WITH 1-14g SCREW, 150mm LONG.

REVISION	AMENDMENT	APPROVED	DATE
A	DETAILED DESIGN ISSUED FOR CLIENT REVIEW	R.G.	2021-08-02
B	DETAILED DESIGN ISSUED FOR CLIENT APPROVAL	R.G.	2021-08-31
C	DETAILED DESIGN ISSUED FOR TENDER	R.G.	2021-10-22



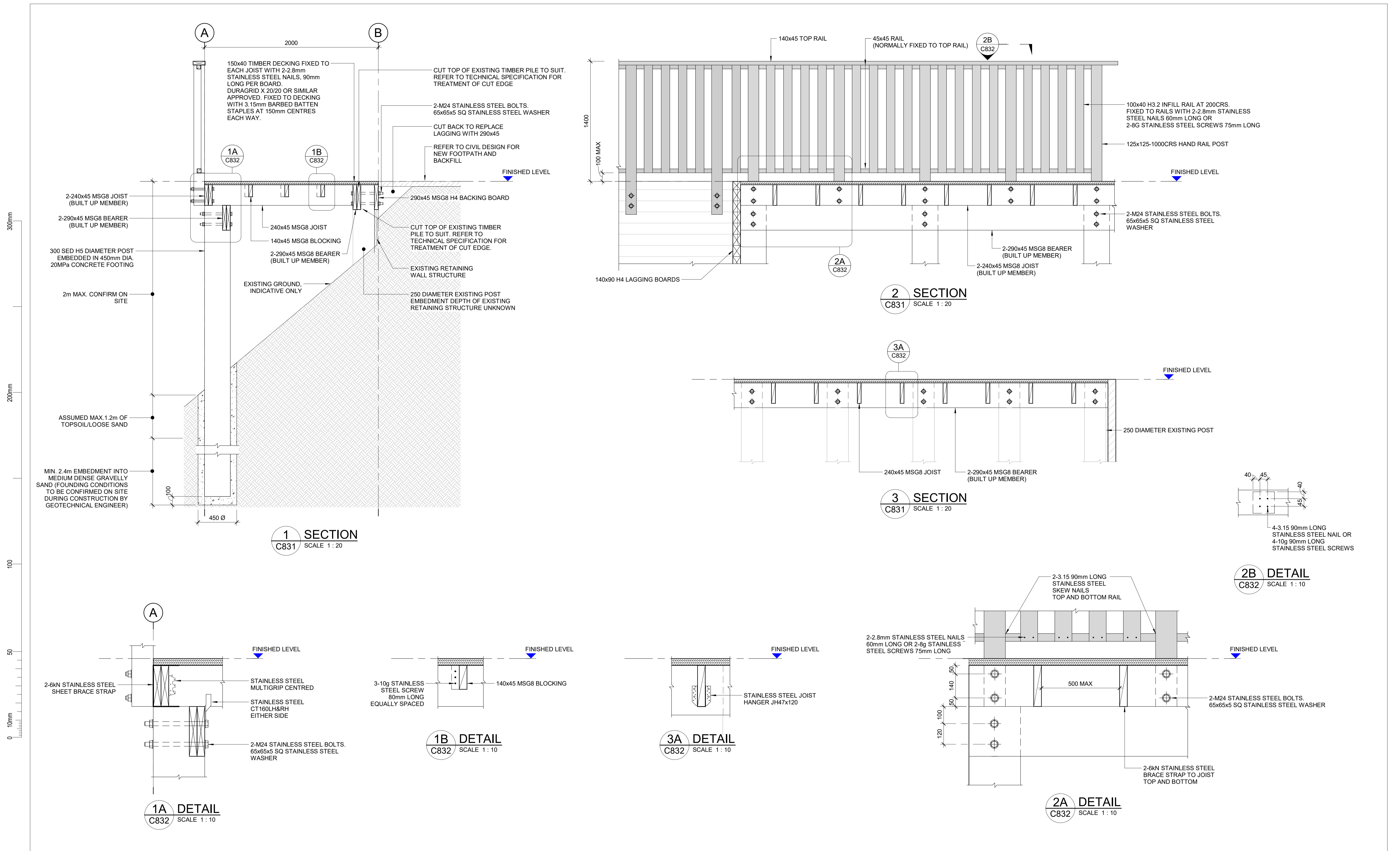
wsp
Queenstown Office
PO Box 2323
Queenstown 9300
New Zealand
+64 3 451 0360

STRUCTURAL

SCALE	DESIGNED	APPROVED
As indicated @ A1	C. WALLIS	R. GILL
DRAWN	DESIGN VERIFIED	APPROVED DATE
J. RUAS	J. ORPWOOD	2021-10-22

FOR TENDER

PROJECT				
QUEENSTOWN LAKES DISTRICT COUNCIL				
WAKATIPU ACTIVE TRAVEL - WATN STAGE 2 ROUTES - ROUTE C5				
GORGE ROAD BOARDWALK				
TITLE				
PLAN VIEW				
WSP PROJECT NO.	PROJ-ORIG-VOL-LVL-TYPE	SHEET NO.	SUITABILITY	REVISION
6-QX141.00	6-QX141-WSP-01-XX-DR	C831	-	C



REVISION	AMENDMENT	APPROVED	DATE
A	DETAILED DESIGN ISSUED FOR CLIENT REVIEW	R.G.	2021-08-02
B	DETAILED DESIGN ISSUED FOR CLIENT APPROVAL	R.G.	2021-08-31
C	DETAILED DESIGN ISSUED FOR TENDER	R.G.	2021-10-22



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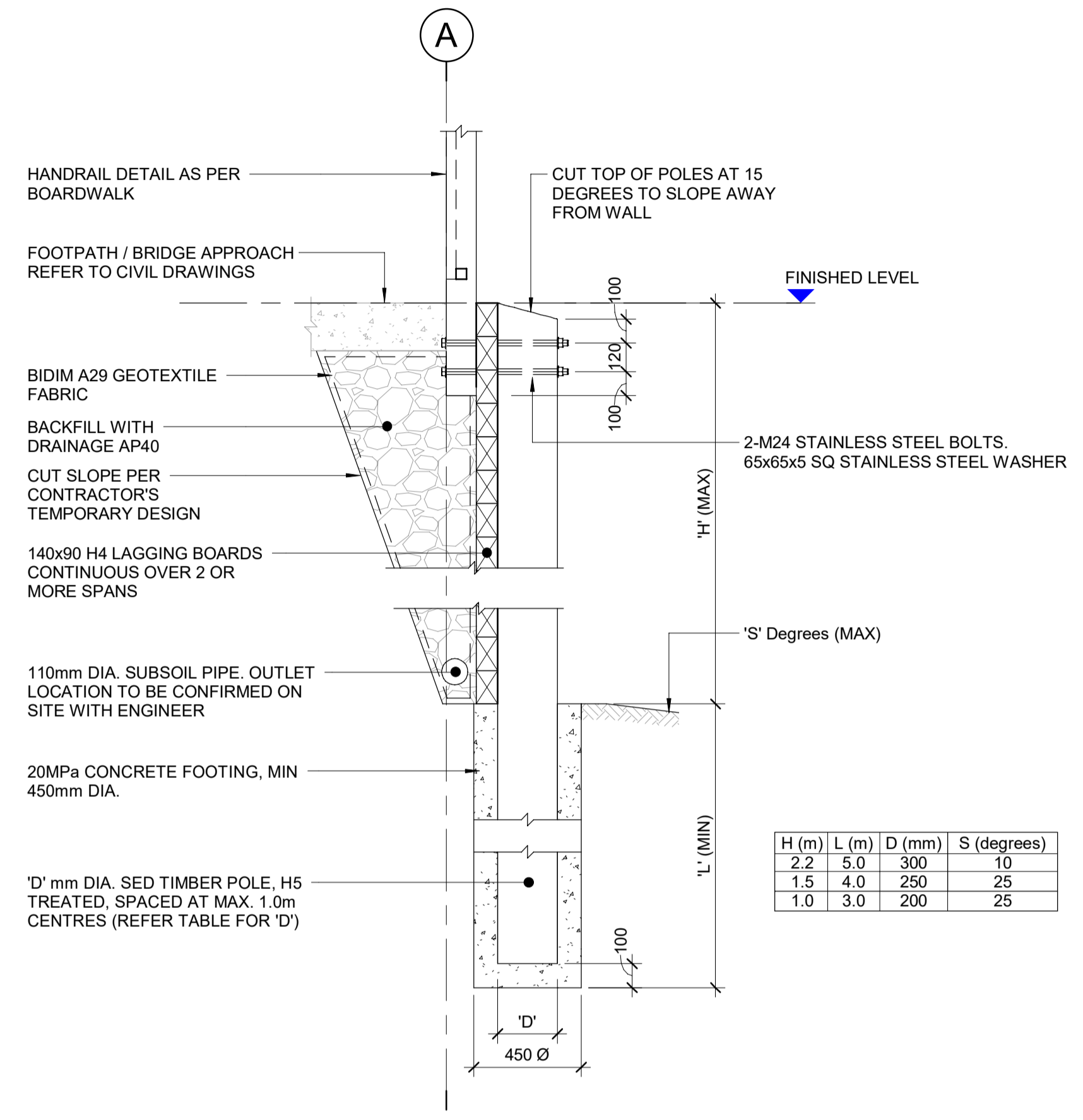
STRUCTURAL

SCALE		ORIGINAL SIZE
As indicated @ A1		A1
DRAWN	DESIGNED	APPROVED
J. RUAS	C. WALLIS	R. GILL
DRAWING VERIFIED	DESIGN VERIFIED	APPROVED DATE
J. DUTTON	J. ORPWOOD	2021-10-22

FOR TENDER

PROJECT				
QUEENSTOWN LAKES DISTRICT COUNCIL WAKATIPU ACTIVE TRAVEL - WATN STAGE 2 ROUTES - ROUTE C5 GORGE ROAD BOARDWALK				
TITLE				
SECTION AND DETAILS				
WSP PROJECT NO.	PROJ-ORIG-VOL-LVL-TYPE	SHEET NO.	SUITABILITY	REVISION
6-QX141.00	6-QX141-WSP-01-XX-DR	C832	-	C

300mm
200mm
100
50
10mm
0



4 SECTION
C831 SCALE 1:20

REVISION	AMENDMENT	APPROVED	DATE
A	DETAILED DESIGN ISSUED FOR CLIENT APPROVAL	R.G.	2021-08-31
B	DETAILED DESIGN ISSUED FOR TENDER	R.G.	2021-10-22



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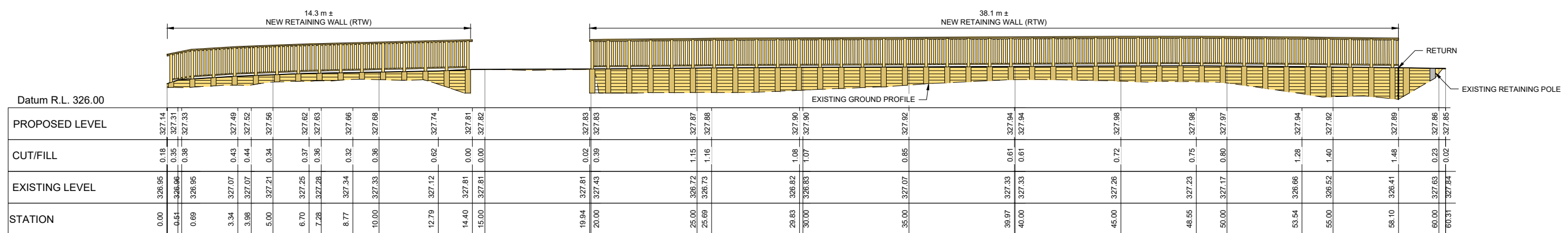
STRUCTURAL

SCALE		ORIGINAL SIZE
As indicated @ A1		A1
DRAWN	DESIGNED	APPROVED
J. RUAS	C. WALLIS	R. GILL
DRAWING VERIFIED	DESIGN VERIFIED	APPROVED DATE
J. DUTTON	J. ORPWOOD	2021-10-22

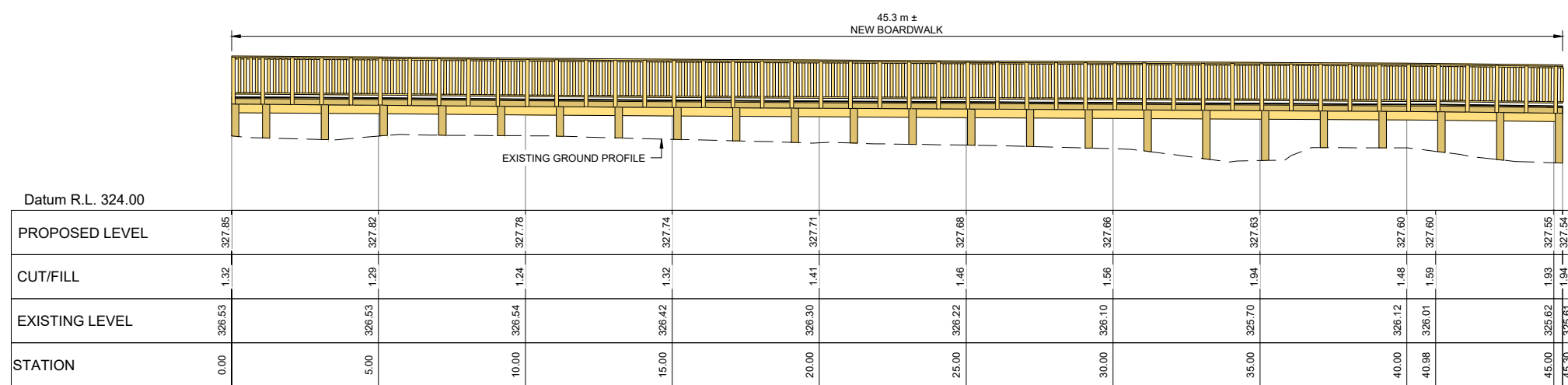
FOR TENDER

PROJECT				
QUEENSTOWN LAKES DISTRICT COUNCIL WAKATIPU ACTIVE TRAVEL - WATN STAGE 2 ROUTES - ROUTE C5 GORGE ROAD BOARDWALK				
TITLE				
SECTION				
WSP PROJECT NO.	PROJ-ORIG-VOL-LVL-TYPE	SHEET NO.	SUITABILITY	REVISION
6-XQ141.00	6-XQ141-WSP-01-XX-DR	C833	-	B

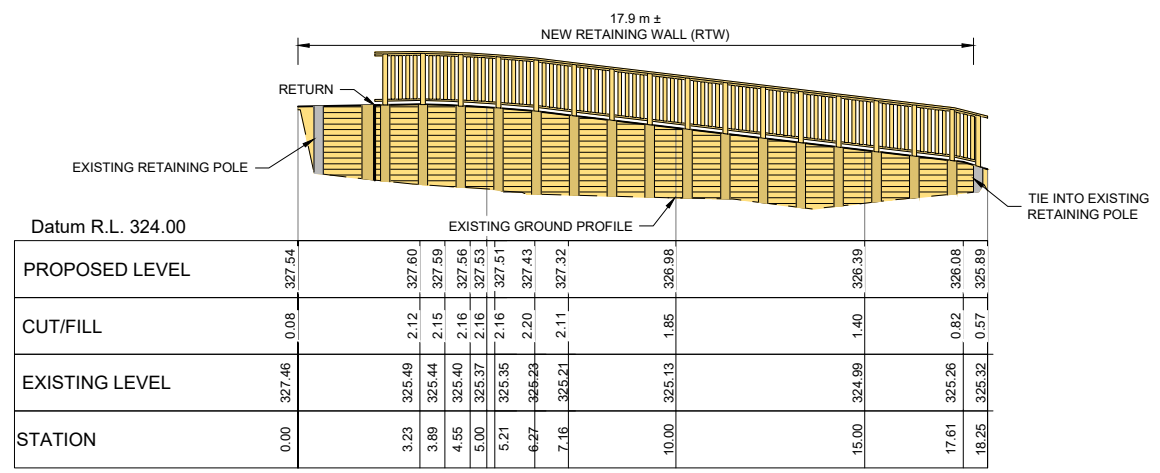
300 mm
200
100
50
0 10 mm



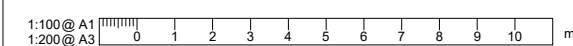
PROPOSED TIMBER POLE RETAINING WALL 1 - ELEVATION
(REFER TO SHEET C214 AND C215 FOR LOCATION)
SCALE 1:100(A1), 1:200(A3)



PROPOSED BOARDWALK - ELEVATION
(REFER TO SHEET C215 FOR LOCATION)
SCALE 1:100(A1), 1:200(A3)



PROPOSED TIMBER POLE RETAINING WALL 2 - ELEVATION
(REFER TO SHEET C214 AND C215 FOR LOCATION)
SCALE 1:100(A1), 1:200(A3)



REVISION	AMENDMENT	APPROVED	DATE
A	DETAILED DESIGN ISSUED FOR CLIENT REVIEW	R. G.	2021-08-02
B	DETAILED DESIGN ISSUED FOR CLIENT APPROVAL	R. G.	2021-08-30
C	DETAILED DESIGN ISSUED FOR TENDER	R. G.	2021-10-22



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New Zealand

CIVIL

SCALES		ORIGINAL SIZE
1:100 @ A1		A1
1:200 @ A3		

DRAWN	DESIGNED	APPROVED
P. FIEREK	P. FIEREK	R. GILL

DRAWING VERIFIED	DESIGN VERIFIED	APPROVED DATE
S. FORBES	S. SHERLAW	2021-08-02

FOR TENDER

PROJECT			
QUEENSTOWN LAKES DISTRICT COUNCIL			
WAKATIPU ACTIVE TRAVEL			
WATN STAGE 2 ROUTES - ROUTE C5			
TITLE			
GORGE ROAD BOARDWALK AND RETAINING WALLS ELEVATIONS			
WSP PROJECT NO.		SHEET NO.	
6-XQ141.00	6-XQ141-WSP-01-C5-DR	C834	
PROJ-ORIG-VOL-LOC-TYPE		REVISION	
6-XQ141-WSP-01-C5-DR		C	