GENERAL NOTES:

1. ALL NOTES HEREIN SHALL FORM PART OF THE CONTRACT.
2. ALL NOTES SHALL BE READ IN CONJUNCTION WITH THE CONTRACT SPECIFICATIONS AND ALL DESIGN DRAWINGS APPLICABLE TO THE CONTRACT.
3. ALL WORKS SHALL BE CONSTRUCTED AS DETAILED IN ALL DESIGN DRAWINGS AND IN ACCORDANCE WITH THE REQUIREMENTS OF THE CONTRACT SPECIFICATIONS.
4. THE CONTRACTOR MUST CHECK ALL DESIGN DRAWINGS AND IDENTIFY ANY INCONSISTENCIES BETWEEN DESIGN DRAWINGS AND AGAINST THE CONTRACT SPECIFICATIONS, BASIS OF PAYMENT AND SCHEDULE OF PRICES IN ADVANCE AND PRIOR TO ANY CONSTRUCTION WORKS. THE CONTRACTOR MUST NOTIFY THE ENGINEER IF THERE ARE ANY INCONSISTENCIES.
5. THE CONTRACTOR MUST INFORM AUCKLAND COUNCIL'S ARBORIST FOR ANY WORK UNDER THE PROTECTED ROOT ZONE OF THE NOTABLE TREES AT 191 SH16. NOTIFICATION SHALL BE MADE WELL IN ADVANCE OF ANY CONSTRUCTION WORKS.
6. SEE LANDSCAPE PLANS FOR ALL AREAS OF EXISTING GRASS AND/OR PLANTING AFFECTED DURING CONSTRUCTION.
7. SITE CLEARANCE SHALL BE CONDUCTED PRIOR TO COMMENCEMENT OF ALL CONSTRUCTION WORKS. REFER TO SITE CLEARANCE PLANS.

SETTING OUT NOTES:

1. SET-OUT INFORMATION FOR ROAD CENTRELINES, EDGE LINES AND KERB LINES WILL BE SUPPLIED TO THE CONTRACTOR IN 3D ELECTRONIC FORMAT. FOR KERB TYPES AND LOCATIONS, REFERENCE SHOULD BE MADE TO KERB AND BARRIER DRAWINGS.
2. THE CONTRACTOR MUST CHECK AND VERIFY ALL COORDINATES / LEVELS / DIMENSIONS / SETTING-OUT INFORMATION PRIOR TO COMMENCEMENT OF WORK AND REPORT DISCREPANCIES, IF ANY, IMMEDIATELY TO THE ENGINEER.
3. THE CONTRACTOR MUST TAKE ALL STEPS TO MAKE SURE THAT THE ENGINEER VERIFIES ALL LEVELS AND SETTING-OUT ON SITE PRIOR TO COMMENCEMENT OF CONSTRUCTION.
4. THE CONTRACTOR MUST UNDERTAKE A SURVEY ON ALL CARRIAGEWAY, FOOTPATH, KERB AND CHANNEL TIE-INS TO PREVENT STORMWATER PONDING. EXTENTS OF WORK MAY EXTEND BEYOND THE LIMITS SHOWN IN THE DESIGN DRAWINGS WITH THE ENGINEER'S APPROVAL.

ROAD KERB AND CHANNEL, FOOTPATH, CENTRAL MEDIAN AND OTHER ROAD ELEMENTS

1. NEW KERB, CHANNEL AND TRAFFIC ISLAND KERBLINES ALONG SH16 SHALL BE SEMI-MOUNTABLE, (SM1 AND SM2 KERB PROFILE). FOR DETAILS AND EXTENTS OF KERB AND CHANNEL REFER TO BARRIER AND KERBING PLANS AND CIVIL WORKS DETAILS DRAWINGS.
2. NEW TRAFFIC ISLAND KERBING TO BE PAINTED REFLECTORISED WHITE IN ACCORDANCE WITH MOTSAM, PART 2 SECTION 2.08.03, RAISED ISLANDS.
3. NEW TRAFFIC ISLANDS INFILL TO BE 20MPa EXPOSED AGGREGATE CONCRETE INFILL WITH 4% BLACK OXIDE. SEE DETAIL 18 ON DRAWING 3235084-CP-3205..
4. NEW FOOTPATHS/SHARED PATHS AND PRAM CROSSINGS TO BE 20MPa CONCRETE 100mm DEEP OVER 100mm DEPTH OF COMPACTED BASECOURSE (AP40).
5. ALL SAWN CONCRETE JOINTS MUST BE SAWCUT NEATLY. SAWCUTTING SHALL GENERALLY BE SQUARE TO THE KERB AND CARRIAGEWAY ALIGNMENT. DRY CUTTING IS NOT PERMITTED.
6. BASECOURSE SHALL BE PLACED AND COMPACTED TO ACHIEVE A MINIMUM CLEGG IMPACT VALUE OF 12 FOR CONCRETE FOOTPATHS.
7. ALL PATH EDGES SHALL BE CONSTRUCTED FLUSH WITH THE ADJACENT GROUND TO AVOID CREATING PEDESTRIAN TRIP HAZARDS.
8. NEW PRECAST KERBS ADJACENT TO GRASS BERM OR PLANTING BEDS TO BE MORTAR POINTED BEFORE REINSTATEMENT WITH TOPSOIL, MULCH ETC.
9. BATTER SLOPES ARE EITHER 4H:1V, 3H:1V OR SLIGHTLY STEEPER DEPENDING ON THE ROADSIDE CONDITION AT THE LOCATION. FOR STEEPENED SLOPES, CONTRACTOR TO UNDERTAKE GROUND TESTING, HAND AUGERS AND / OR SHEAR VANES AT THE DIRECTION OF THE ENGINEER. ENGINEER THEN SHALL ASSESS THE FINDINGS AND INSTRUCT IF FURTHER SLOPE STABILISATION WILL BE REQUIRED.
10. FOR NEW WIRE ROPE MEDIAN BARRIER AND W-SECTION EDGE BARRIER LOCATIONS AND DETAILS, REFER TO BARRIER AND KERBING PLANS .

PROPERTY ACCESS:

1. ALL PROPERTY ACCESS ALONG THE CORRIDOR SHALL BE MAINTAINED AS EXISTING UNLESS NOTED OTHERWISE ON THE GENERAL ARRANGEMENT PLANS. TYPICALLY, DETAILED LAYOUTS SHALL FOLLOW EITHER DIAGRAM D OR AUCKLAND TRANSPORT TDM VEHICLE CROSSING DETAIL VX0103B FOR ALL RESIDENTIAL AND LIGHT COMMERCIAL PROPERTIES OR DIAGRAM E FOR HEAVY COMMERCIAL PROPERTIES ACCORDING TO WAKA KOTAHI PLANNING POLICY MANUAL, APPENDIX 5B ACCESSWAY STANDARDS AND GUIDLINES.
2. REFER TO PAVEMENT AND SURFACING DRAWINGS FOR PROPERTY ACCESS CONSTRUCTION MATERIALS AND DETAILS.

SURVEY:

1. THE SURVEY AND DESIGN IS IN TERMS OF NZTM COORDINATES AND NZVD 2016 VERTICAL DATUM.

SERVICES:

1. REFER TO UTILITY PLANS FOR LOCATION OF EXISTING AND NEW SERVICES .
2. CONTRACTOR MUST LIAISE WITH ALL SERVICE AUTHORITIES FOR LOCATION OF SERVICES AND OBTAIN ANY NECESSARY CONSENTS IN ADVANCE AND PRIOR TO ANY CONSTRUCTION WORKS.
3. CONTRACTOR TO CARRY OUT DETAILED DESIGN SERVICES LOCATION PRIOR TO ANY EXCAVATION WORKS.
4. ANY SERVICES DAMAGED BY THE CONTRACTOR SHALL BE REPAIRED, TO THE SATISFACTION OF THE SERVICE PROVIDER, AT THE CONTRACTORS EXPENSE.

LEGEND

- EXISTING ROAD DESIGNATION BOUNDARY
- EXISTING PROPERTY BOUNDARY
- EXISTING CELL PHONE TOWER ON BORIC LAND TO REMAIN
- SIC — SIC — EXISTING SPARK INTERNATIONAL CABLE
- WR3 — WR3 — NEW MASH TL-3 WIRE ROPE BARRIER
- NEW MASH TL-3 WIRE ROPE BARRIER END TERMINAL
- NEW MASH TL-3 W-BEAM BARRIER
- NEW MASH TL-3 W-BEAM BARRIER LEADING TERMINAL
- NEW MASH TL-3 W-BEAM BARRIER TRAILING TERMINAL
- T-B4 — T-B4 — NEW THRIE BEAM BARRIER
- RW — RW — NEW RETAINING WALL
- NW-2.0 — NW-2.0 — NW-2.0 — NEW 2.0m HIGH NOISE BARRIER (IN ACCORDANCE WITH WAKA KOTAHI STATE HIGHWAY NOISE BARRIER DESIGN GUIDE)
- NEW 1.4m HIGH PEDESTRIAN FENCE (GALVANISED WIRE FENCE)
- NEW TRAFFIC SIGN
- NEW LIGHTING COLUMN / BRIDGE LIGHTING
- NEW EARTHWORKS IN CUT
- NEW EARTHWORKS IN FILL
- NEW CONCRETE FOOTPATH/SHARED PATH OR MEDIAN ISLAND (REFER TO DETAIL 18 ON PAVEMENT DRAWING 3235084-CP-3205 FOR ISLAND AND PAVEMENT TYPE H ON DRAWING 3235084-CP-3201 FOR FOOTPATH/SHARED PATH)
- NEW TACTILE GROUND SURFACE INDICATORS
- RECONSTRUCTED VEHICLE CROSSING (REFER TO PAVEMENT TYPE F ON DRAWING 3235084-CP-3201)
  EXTENT OF VEHICLE CROSSING RECONSTRUCTION SUBJECT TO CONFIRMATION WITH LANDOWNERS
- NEW PEDESTRIAN AND CYCLISTS CROSSING (REFER TO PAVEMENT DRAWING 3235084-CP-3207)
- PROPOSED DESIGNATION BOUNDARY

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ORIGINAL DRAWING IN COLOUR

DETAILED DESIGN
NOT FOR CONSTRUCTION

No.	Revision	By	Chk	Appd	Date
G	FOR CONSENTING	AH	SP	GC	25.10.22
F	FOR CONSENTING	AH	SP	GC	10.10.22
E	DETAILED DESIGN	AH	SP	GC	25.08.22
D	FOR CONSENTING	AH	SP	GC	01.08.22

Drawing Originator: Beca

Original Scale (A1) NTS
Reduced Scale (A3) NTS

Design	A. HOLT	26.03.21
Drawn	A. HOLT	26.03.21
Dsg Verifier		
Dwg Check		

Approved For Construction* Date
* Refer to Revision 1 for Original Signature

Client: WAKA KOTAHI NZ TRANSPORT AGENCY

Project: SH16 - SAFETY IMPROVEMENTS STAGE 2 BRIGHAM CREEK TO KUMEU

Title: CIVIL WORKS GENERAL NOTES AND LEGEND

Discipline: CIVIL ENGINEERING

Drawing No.: 3235084-CA-1200

Rev.: G

Document No. 3235084-CA-1200.DWG

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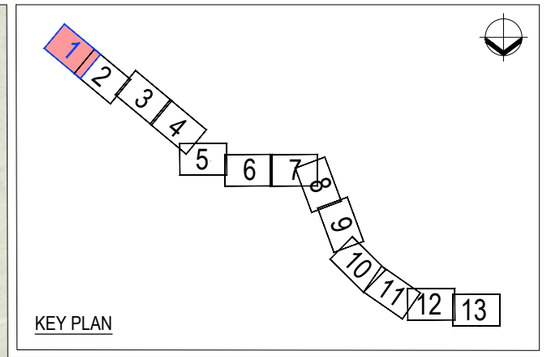
DO NOT SCALE

IF IN DOUBT ASK.

Drawing Plotted: 03 Nov 2022 2:59 pm

NOTES:

1. FOR CIVIL WORKS GENERAL NOTES AND LEGEND REFER TO DRAWING 3235084-CA-1200.



AUCKLAND TRANSPORT DESIGNATION 1468

FRED TAYLOR DRIVE

EXISTING BRIGHAM CREEK ROUNDABOUT TO REMAIN

TO BRIGHAM CREEK

EXISTING PROPERTY ACCESS TO REMAIN OPEN

NEW 3.0m SHARED PATH LINK TO EXISTING SHARED PATH

EXISTING MEDIAN ISLAND WIDENED TO ACCOMMODATE 3.5m WIDE CROSSING

TIE NEW MEDIAN ISLAND INTO EXISTING

CH190000

TC 190045.518

EXTENT OF WORKS

212

NEW 3:1 EARTHWORKS

TC 190090.422

CH190100

TC 190147.881

NEW TL-3 WIRE ROPE BARRIER SYSTEM

RELOCATED INDENTED BUS BAY 63m LENGTH AS PER AUCKLAND TRANSPORT TDM

NEW 3m SHARED PATH WITH 1m BERM EITHER SIDE

CH190200

REMOVE EXISTING KERB, CHANNEL AND CONCRETE FOOTPATH

TO KUMEU

EXISTING RIGHT TURN BAY INTO KENNEDYS ROAD CLOSED

CH190300

TIE NEW KERB AND CHANNEL INTO EXISTING

NEW 1.8m FOOTPATH

EXISTING LEFT TURN ONTO SH16 TO REMAIN OPEN

RELOCATED INDENTED BUS BAY 63m LENGTH AS PER AUCKLAND TRANSPORT TDM

NEW PEDESTRIAN AND CYCLISTS CROSSING

SHARED PATH OFF ROAD RAMP. FOR DETAILS REFER TO DRAWING 3235084-CA-1248

171

EXISTING CYCLEPATH LINK TO BE MAINTAINED

REMOVE EXISTING MEDIAN TRAFFIC ISLAND AND REPLACE WITH NEW MEDIAN ISLAND

173

175

177

179

181

183

EXISTING INDENTED BUS BAY MOVED CLOSER TO BRIGHAM CREEK ROUNDABOUT (CH190060)

EXTENT OF WORKS

MATCHLINE-REFER TO SHEET 2

KENNEDYS ROAD

BRIGHAM CREEK ROAD

SH16

WR3

NM 2.8

5

2

4

1

ORIGINAL DRAWING IN COLOUR

DETAILED DESIGN
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No.	Revision	By	Chk	Appd	Date
G	FOR CONSENTING	AH	SP	GC	25.10.22
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Drawing Originator: Beca

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	Drawn	A. HOLT	26.03.21
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	Dwg Check		

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* Refer to Revision 1 for Original Signature

Client: WAKA KOTAHI NZ TRANSPORT AGENCY

Project: SH16 - SAFETY IMPROVEMENTS STAGE 2 BRIGHAM CREEK TO KUMEU

Title: GENERAL ARRANGEMENT PLAN SHEET 1

Discipline: CIVIL ENGINEERING

Drawing No.: 3235084-CA-1201

Rev.: G

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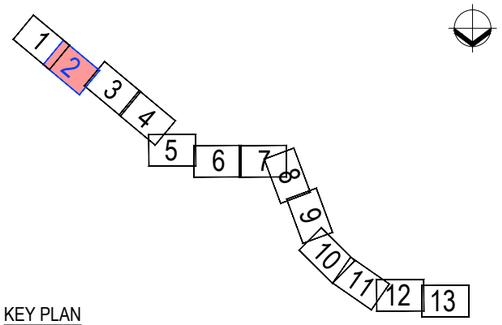
Document No. 3235084-CA-1201 TO 1213.DWG

Drawing Plotted: 03 Nov 2022 2:59 pm

NOTES:

1. FOR CIVIL WORKS GENERAL NOTES AND LEGEND REFER TO DRAWING 3235084-CA-1200.

KEY PLAN



TO BRIGHAM CREEK

NEW TL-3 WIRE ROPE BARRIER SYSTEM

NEW 2.0m HIGH NOISE WALL

REMOVE EXISTING KERB, CHANNEL AND CONCRETE FOOTPATH

NEW 3m SHARED PATH WITH 1m BERM EITHER SIDE

NEW CONVEYANCE AND DIVERSION BUND. FOR DETAILS REFER TO STORMWATER DRAWINGS

REMOVE EXISTING INDENTED CONCRETE BUS BAY AND CONCRETE FOOTPATH

REMOVE EXISTING TRAVERSABLE CULVERT HEADWALL

REMOVE ALL EXISTING TREES AFFECTED BY THE WORKS

NEW CONVEYANCE AND DIVERSION CHANNEL. FOR DETAILS REFER TO STORMWATER DRAWINGS

NEW TL-3 W-BEAM BARRIER SYSTEM

HARDSTANDING AREA FOR MAINTENANCE OF STORMWATER DEVICE

NEW PEDESTRIAN FOOTBRIDGE ADJACENT TO CARRIAGEWAY OVER BRIGHAM CREEK CULVERT. FOR DETAILS REFER TO STRUCTURAL DRAWINGS

TO KUMEU

STORMWATER OUTLETS TO NGONGETEPARA STREAM

NGONGETEPARA STREAM

NEW RETAINING WALLS BOTH SIDES OF CARRIAGEWAY. FOR DETAILS REFER TO GEOTECHNICAL DRAWINGS.

STORMWATER OUTLETS TO BRIGHAM CREEK

EXISTING BRIGHAM CREEK CULVERT WITH NEW MEDIAN WIRE ROPE BARRIER AND THRIE-BEAM EDGE BARRIERS

STORMWATER OUTLETS TO BRIGHAM CREEK

NOTABLE TREES WITHIN PROPERTY 191 TO BE UNAFFECTED. THE CONTRACTOR MUST INFORM AUCKLAND COUNCIL'S ARBORIST FOR ANY WORK UNDER THE DRIPLINE OF THE NOTABLE TREES AT 191 SH16. NOTIFICATION SHALL BE MADE WELL IN ADVANCE OF ANY CONSTRUCTION WORKS

NEW TRAFFIC ISLAND

NEW 3:1 EARTHWORKS

EXTENT OF WORKS

KENNEDYS ROAD

SH16

CH190300

CH190400

CH190500

CH190600

CT 190640.800

CT 190521.351

CT 190354.718

222

222A

218

191

189

185

183

1

MATCHLINE-REFER TO SHEET 1

MATCHLINE-REFER TO SHEET 3

BRIGHAM CREEK

ORIGINAL DRAWING IN COLOUR

DETAILED DESIGN
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No.	Revision	By	Chk	Appd	Date
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Drawing Originator: Beca

Original Scale (A1) 1:500
Reduced Scale (A3) 1:1000

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Drawn	A. HOLT	26.03.21	
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Dwg Check			Date

* Refer to Revision 1 for Original Signature

Client: WAKA KOTAHI NZ TRANSPORT AGENCY

Project: SH16 - SAFETY IMPROVEMENTS STAGE 2 BRIGHAM CREEK TO KUMEU

Title: GENERAL ARRANGEMENT PLAN SHEET 2

Discipline: CIVIL ENGINEERING

Drawing No.: 3235084-CA-1202

Rev.: G

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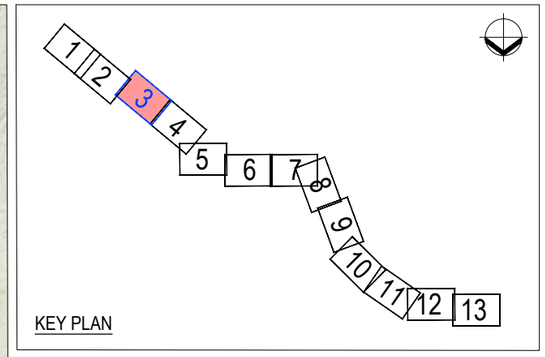
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Drawing Plotted: 03 Nov 2022 2:59 pm

NOTES:

1. FOR CIVIL WORKS GENERAL NOTES AND LEGEND REFER TO DRAWING 3235084-CA-1200.



NEW CONVEYANCE AND DIVERSION CHANNEL. FOR DETAILS REFER TO STORMWATER DRAWINGS

NEW RETAINING WALL GRW1. FOR DETAILS REFER TO GEOTECHNICAL DRAWINGS

NEW TL-3 W-BEAM BARRIER SYSTEM

NEW TL-3 WIRE ROPE BARRIER SYSTEM

NEW RETAINING WALL SRW1. FOR DETAILS REFER TO GEOTECHNICAL DRAWINGS

NEW CONVEYANCE AND DIVERSION CHANNEL. FOR DETAILS REFER TO STORMWATER DRAWINGS

TO KUMEU

TO BRIGHAM CREEK

NEW 3m SHARED PATH WITH 1m BERM EITHER SIDE

SH16

NEW RETAINING WALL GRW2A. FOR DETAILS REFER TO GEOTECHNICAL DRAWINGS

NEW RETAINING WALL GRW2. FOR DETAILS REFER TO GEOTECHNICAL DRAWINGS

NEW 3:1 CUT SLOPE WITH CONVEYANCE SWALE. FOR DETAILS REFER TO STORMWATER DRAWINGS

NEW RETENTION SWALE. FOR DETAILS REFER TO STORMWATER DRAWINGS

NEW TL-3 W-BEAM BARRIER SYSTEM

NEW 4m WIDE MAINTENANCE BAY

RELOCATE EXISTING VMS GANTRY SIGN AND CONSTRUCT NEW FOUNDATION. FOR DETAILS REFER TO TRAFFIC SIGNS AND ROAD MARKING DRAWINGS

MATCHLINE-REFER TO SHEET 2

MATCHLINE-REFER TO SHEET 4

238

238A

239

256

CH190800

CH191000

CH190700

TC 190705.355

3
CG-1302

ORIGINAL DRAWING IN COLOUR

DETAILED DESIGN
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No.	Revision	By	Chk	Appd	Date
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F	FOR CONSENTING	AH	SP	GC	10.10.22
E	DETAILED DESIGN	AH	SP	GC	25.08.22
D	FOR CONSENTING	AH	SP	GC	01.08.22

Drawing Originator: Beca

Original Scale (A1)	1:500
Reduced Scale (A3)	1:1000

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Drawn	A. HOLT	26.03.21	
Dsg Verifier			
Dwg Check			Date

* Refer to Revision 1 for Original Signature

Client: WAKA KOTAHI NZ TRANSPORT AGENCY

Project: SH16 - SAFETY IMPROVEMENTS STAGE 2 BRIGHAM CREEK TO KUMEU

Title: GENERAL ARRANGEMENT PLAN SHEET 3

Discipline: CIVIL ENGINEERING

Drawing No.: 3235084-CA-1203

Rev.: G

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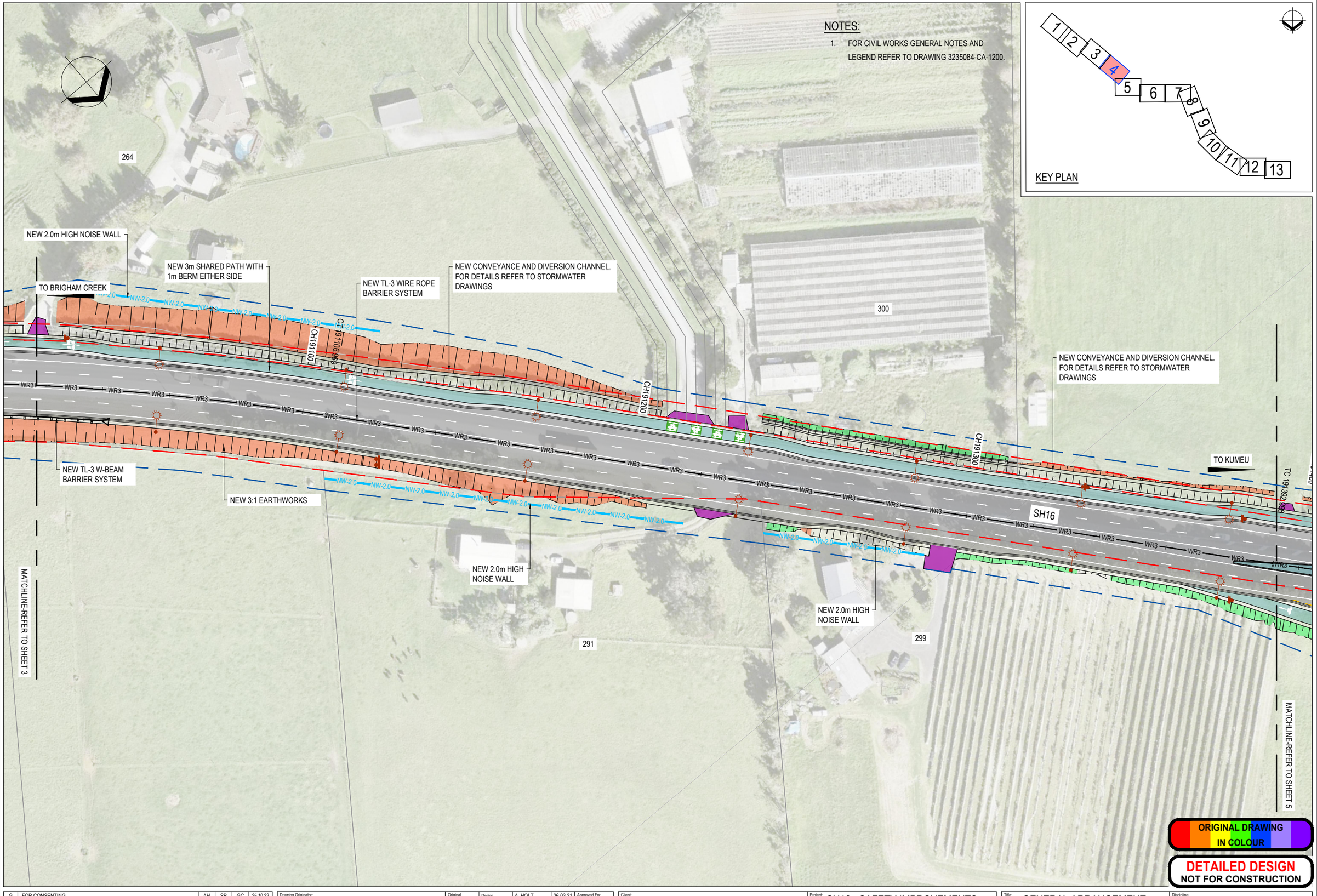
Document No. 3235084-CA-1201 TO 1213.DWG

Drawing Plotted: 03 Nov 2022 2:59 pm

NOTES:

1. FOR CIVIL WORKS GENERAL NOTES AND LEGEND REFER TO DRAWING 3235084-CA-1200.

KEY PLAN



ORIGINAL DRAWING IN COLOUR

DETAILED DESIGN
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Design	A. HOLT	26.03.21	Approved For Construction*
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Dsg Verifier			
Dwg Check			Date

* Refer to Revision 1 for Original Signature

Client: WAKA KOTAHI NZ TRANSPORT AGENCY

Project: SH16 - SAFETY IMPROVEMENTS STAGE 2 BRIGHAM CREEK TO KUMEU

Title: GENERAL ARRANGEMENT PLAN SHEET 4

Discipline: CIVIL ENGINEERING

Drawing No.: 3235084-CA-1204

Rev.: G

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Document No. 3235084-CA-1201 TO 1213.DWG

Drawing Plotted: 03 Nov 2022 2:59 pm

NEW 3:1 EARTHWORKS

NEW CYCLIST ON ROAD RAMP. FOR DETAIL REFER TO DRAWING 3235084-CA-1248

MATCHLINE-REFER TO SHEET 4

TO BRIGHAM CREEK

NEW BUS SHELTER

RELOCATED INDENTED BUS BAY 63m LENGTH AS PER AUCKLAND TRANSPORT TDM

312

CYCLIST OFF ROAD RAMP. FOR DETAILS REFER TO DRAWING 3235084-CA-1248

4 CG-1302

NEW RAISED MEDIAN ISLAND. FOR DETAILS REFER TO CIVIL WORKS DRAWINGS

NEW INDENTED BUS BAY 63m LENGTH AS PER AUCKLAND TRANSPORT TDM

NEW CONVEYANCE AND DIVERSION CHANNEL. FOR DETAILS REFER TO STORMWATER DRAWINGS

NEW ROUNDABOUT CENTRAL ISLAND. FOR DETAILS REFER TO LANDSCAPE DRAWINGS

6 CG-1303

NEW 3m SHARED PATH WITH 1m BERM EITHER SIDE

NEW RAISED MEDIAN ISLAND. FOR DETAILS REFER TO CIVIL WORKS DRAWINGS

324

NEW RETAINING WALL GRW3. FOR DETAILS REFER TO GEOTECHNICAL DRAWINGS

EXISTING INFORMAL PARK AND RIDE TO BE REMOVED AND RELOCATION OF EXISTING BUS STOP

9 CG-1305

NEW CYCLIST ON ROAD RAMP. FOR DETAIL REFER TO DRAWING 3235084-CA-1248

340

NEW 2.0m HIGH NOISE WALL

CT 19167 115

CH 19170

315

NEW PEDESTRIAN AND CYCLISTS CROSSING

1411

5 CG-1303

NEW RAISED MEDIAN ISLAND. FOR DETAILS REFER TO CIVIL WORKS DRAWINGS

NEW PEDESTRIAN AND CYCLISTS CROSSING

NEW CYCLIST OFF ROAD RAMP. FOR DETAILS REFER TO DRAWING 3235084-CA-1248

EXISTING CELL TOWER TO REMAIN

1409

NEW CYCLISTS ON ROAD RAMP. FOR DETAIL REFER TO DRAWING 3235084-CA-1248

7 CG-1304

8 CG-1304

SH16

NEW TL-3 WIRE ROPE BARRIER SYSTEM

TO KUMEU

NEW RAISED MEDIAN ISLAND. FOR DETAILS REFER TO CIVIL WORKS DRAWINGS

NEW LEFT IN/LEFT OUT TO BORIC SUPERMARKET WITH RECONFIGURED CAR PARK

1404

BORIC SUPERMARKET

NEW CYCLIST OFF ROAD RAMP. FOR DETAILS REFER TO DRAWING 3235084-CA-1248

EXISTING BORIC SUPERMARKET ENTRANCE/EXIT TO BE RECONSTRUCTED

BLOSSOMS CAFE

NEW BIO-RETENTION SWALE. FOR DETAILS REFER TO STORMWATER DRAWINGS

MATCHLINE-REFER TO SHEET 6

REFER INSET A

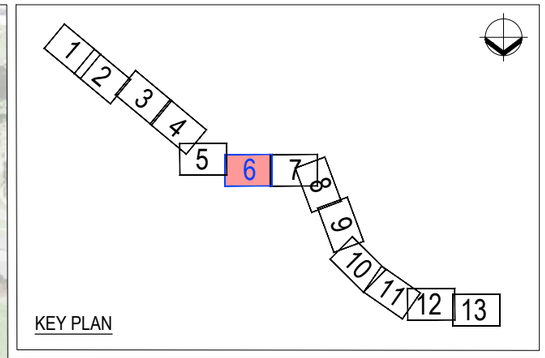
COATESVILLE-RIVERHEAD HWY

CH80 CH40 CH20 CH100 CH120 CH140 CH160 CH180 CH200 CH220 CH240 CH260 CH280 CH300 CH320 CH340 CH360 CH380 CH400 CH420 CH440 CH460 CH480 CH500 CH520 CH540 CH560 CH580 CH600 CH620 CH640 CH660 CH680 CH700 CH720 CH740 CH760 CH780 CH800 CH820 CH840 CH860 CH880

Drawing Plotted: 03 Nov 2022 2:59 pm

NOTES:

1. FOR CIVIL WORKS GENERAL NOTES AND LEGEND REFER TO DRAWING 3235084-CA-1200.



NEW RETAINING WALL GRW3A. FOR DETAILS REFER TO GEOTECHNICAL DRAWINGS

NEW TL-3 W-BEAM BARRIER SYSTEM

NEW 3m SHARED PATH WITH 1m BERM EITHER SIDE

NEW CONVEYANCE AND DIVERSION CHANNEL. FOR DETAILS REFER TO STORMWATER DRAWINGS

NEW RETAINING WALL GRW4. FOR DETAILS REFER TO GEOTECHNICAL DRAWINGS

PEDESTRIANS AND CYCLISTS TO GIVE WAY AT SOLJANS ACCESS. SIGNAGE AND DELINEATION TO CONFIRM VEHICLE PRIORITY

TIE KERB, CHANNEL AND SHARED PATH INTO EXISTING

EXISTING INDENTED BUS BAY TO REMAIN

NEW PEDESTRIAN AND CYCLISTS CROSSING

SOLJANS ESTATE WINERY

350

366

449

CH 191760

CH 191800

CT 191817882

10 CG-1306

CH 191900

CH 192000

TC 192013241

CT 192073160

WR3

TO BRIGHAM CREEK

NEW 3:1 EARTHWORKS

NEW TL-3 WIRE ROPE BARRIER SYSTEM

MAINTENANCE AREA

SH16

MATCHLINE-REFER TO SHEET 5

1368

1368

STORMWATER OUTLET

NEW ROAD MARKINGS, SIGNAGE AND TRAFFIC ISLANDS TO PREVENT RIGHT TURN OUT OF SOLJANS WINERY

TIE NEW KERB AND CHANNEL INTO EXISTING AND MAINTAIN EXISTING CYCLE RAMP

NEW RAISED MEDIAN ISLAND. FOR DETAILS REFER TO CIVIL WORKS DRAWINGS

EXISTING INDENTED BUS BAY TO REMAIN

TO KUMEU

NEW RAISED MEDIAN ISLAND. FOR DETAILS REFER TO CIVIL WORKS DRAWINGS

EXISTING MEDIAN ISLAND WIDENED TO 3.5m MINIMUM AT CROSSING

EXISTING UNCONTROLLED PEDESTRIAN CROSSING CUT THROUGH CLOSED

16

MATCHLINE-REFER TO SHEET 7

ORIGINAL DRAWING IN COLOUR

DETAILED DESIGN
NOT FOR CONSTRUCTION

No.	Revision	By	Chk	Appd	Date
G	FOR CONSENTING	AH	SP	GC	25.10.22
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Drawing Originator: Beca

Original Scale (A1) 1:500
Reduced Scale (A3) 1:1000

Design	A. HOLT	26.03.21	Approved For Construction*
Drawn	A. HOLT	26.03.21	
Dsg Verifier			
Dwg Check			Date

* Refer to Revision 1 for Original Signature

Client: WAKA KOTAHI NZ TRANSPORT AGENCY

Project: SH16 - SAFETY IMPROVEMENTS STAGE 2 BRIGHAM CREEK TO KUMEU

Title: GENERAL ARRANGEMENT PLAN SHEET 6

Discipline: CIVIL ENGINEERING

Drawing No.: 3235084-CA-1206

Rev.: G

DO NOT SCALE

IF IN DOUBT ASK.

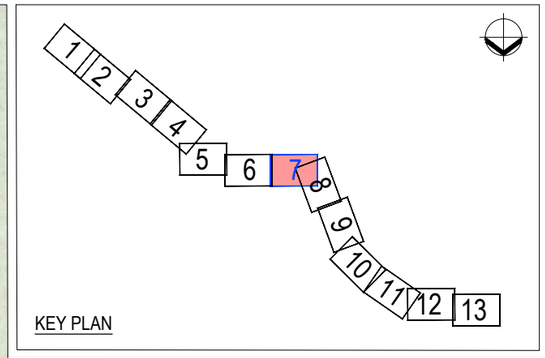
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Document No. 3235084-CA-1201 TO 1213.DWG

Drawing Plotted: 03 Nov 2022 3:00 pm

NOTES:

1. FOR CIVIL WORKS GENERAL NOTES AND LEGEND REFER TO DRAWING 3235084-CA-1200.



KEY PLAN

455
449
466
454
393
407

TAUPAKI ROAD
SH16
OLD NORTH ROAD
ALLELY ESTATE
KUMEU PRODUCE MARKET

NEW PEDESTRIAN AND CYCLISTS CROSSING
EXTENT OF WORKS
TIE NEW SHARED PATH, KERB AND CHANNEL, PAVEMENT INTO EXISTING
TO BRIGHAM CREEK
NEW 3m SHARED PATH WITH 1m BERM EITHER SIDE
EXISTING MERGE TAPER TO BE MAINTAINED
NEW TREATMENT SWALE. FOR DETAILS REFER TO STORMWATER DRAWINGS
NEW 2.5m WIDE FLUSH MEDIAN
TO KUMEU
EXISTING ROUNDABOUT TO REMAIN
NO ALTERATIONS TO EXISTING VEHICLE CROSSING
MAINTAIN EXISTING PAVEMENT EDGE ON NORTHERN SIDE BETWEEN CH192220 AND CH192390
NEW 3:1 EARTHWORKS
REFER INSET A
MATCHLINE-REFER TO SHEET 6
MATCHLINE-REFER TO SHEET 8

CT 192073
CH 192096
CH192180
CH192200
CH192300
CT 192359
CH192400

INSET A
SCALE 1:2000 (A1)

ORIGINAL DRAWING IN COLOUR

DETAILED DESIGN
NOT FOR CONSTRUCTION

No.	Revision	By	Chk	Appd	Date
G	FOR CONSENTING	AH	SP	GC	25.10.22
F	FOR CONSENTING	AH	SP	GC	10.10.22
E	DETAILED DESIGN	AH	SP	GC	25.08.22
D	FOR CONSENTING	AH	SP	GC	01.08.22

Drawing Originator: Beca

Original Scale (A1) 1:500
Reduced Scale (A3) 1:1000

Design	A. HOLT	26.03.21	Approved For Construction*
Drawn	A. HOLT	26.03.21	
Dsg Verifier			
Dwg Check			Date

* Refer to Revision 1 for Original Signature

Client: WAKA KOTAHI NZ TRANSPORT AGENCY

Project: SH16 - SAFETY IMPROVEMENTS STAGE 2 BRIGHAM CREEK TO KUMEU

Title: GENERAL ARRANGEMENT PLAN SHEET 7

Discipline: CIVIL ENGINEERING

Drawing No.: 3235084-CA-1207

Rev.: G

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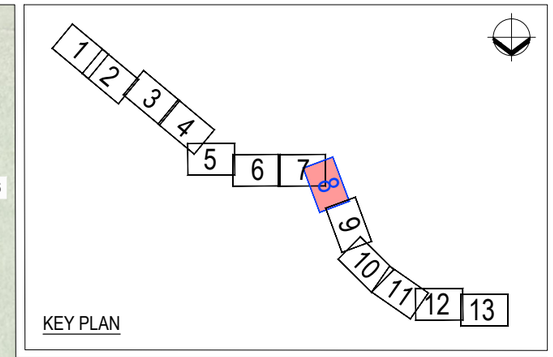
www.beca.com

Document No. 3235084-CA-1201 TO 1213.DWG

Drawing Plotted: 03 Nov 2022 3:00 pm

NOTES:

1. FOR CIVIL WORKS GENERAL NOTES AND LEGEND REFER TO DRAWING 3235084-CA-1200.



EXISTING WETLAND, APPROXIMATE MINIMUM DISTANCE TO THE PROPOSED RETAINING WALL IS 9.97m.

NEW TL-3 W-BEAM BARRIER SYSTEM

NEW 3m SHARED PATH WITH 1m BERM EITHER SIDE

NEW RETAINING WALL SRW2. FOR DETAILS REFER TO GEOTECHNICAL DRAWINGS

NEW RETENTION SWALE. FOR DETAILS REFER TO STORMWATER DRAWINGS

NEW 2.5m WIDE FLUSH MEDIUM

NEW TREATMENT SWALE. FOR DETAILS REFER TO STORMWATER DRAWINGS

REMOVE EXISTING VEHICLE CROSSING

EXISTING VEHICLE CROSSING TO BE REMOVED AND INTERNAL CONNECTION PROVIDED

CT 192600 875
CH192600

CH192700

11
CG-1307

9.97m

CH192500

SH16

TO KUMEU

NEW RETAINING WALL GRW5. FOR DETAILS REFER TO GEOTECHNICAL DRAWINGS

NEW RETENTION SWALE. FOR DETAILS REFER TO STORMWATER DRAWINGS

NEW CONVEYANCE AND DIVERSION CHANNEL. FOR DETAILS REFER TO STORMWATER DRAWINGS

NEW RETENTION SWALE. FOR DETAILS REFER TO STORMWATER DRAWINGS

NEW 3:1 EARTHWORKS

MATCHLINE-REFER TO SHEET 9

CH192400

TC 192389.363

CH192300

KUMEU PRODUCE MARKET

MATCHLINE-REFER TO SHEET 7

TO BRIGHAM CREEK

418

436

429

407

454

ORIGINAL DRAWING IN COLOUR

DETAILED DESIGN
NOT FOR CONSTRUCTION

No.	Revision	By	Chk	Appd	Date
G	FOR CONSENTING	AH	SP	GC	25.10.22
F	FOR CONSENTING	AH	SP	GC	10.10.22
E	DETAILED DESIGN	AH	SP	GC	25.08.22
D	FOR CONSENTING	AH	SP	GC	01.08.22

Drawing Originator: Beca

Original Scale (A1) 1:500
Reduced Scale (A3) 1:1000

Design	A. HOLT	26.03.21	Approved For Construction*
Drawn	A. HOLT	26.03.21	
Dsg Verifier			
Dwg Check			Date

* Refer to Revision 1 for Original Signature

Client: WAKA KOTAHI NZ TRANSPORT AGENCY

Project: SH16 - SAFETY IMPROVEMENTS STAGE 2 BRIGHAM CREEK TO KUMEU

Title: GENERAL ARRANGEMENT PLAN SHEET 8

Discipline: CIVIL ENGINEERING

Drawing No.: 3235084-CA-1208

Rev.: G

DO NOT SCALE

IF IN DOUBT ASK.

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Document No. 3235084-CA-1201 TO 1213.DWG

Drawing Plotted: 03 Nov 2022 3:00 pm

INSET A
SCALE 1:500 (A1)

KEY PLAN

STORMWATER OUTLET TO KUMEU RIVER

REFER INSET A

NEW RETENTION SWALE. FOR DETAILS REFER TO STORMWATER DRAWINGS

NOTES:

1. FOR CIVIL WORKS GENERAL NOTES AND LEGEND REFER TO DRAWING 3235084-CA-1200.

MATCHLINE-REFER TO SHEET 10

NEW TL-3 W-BEAM BARRIER SYSTEM

PHIL GREIG STRAWBERRY GARDENS

NEW RETAINING WALL GRW6. FOR DETAILS REFER TO GEOTECHNICAL DRAWINGS

NEW 2.5m WIDE FLUSH MEDIAN

12 CG-1307

CH192800

CH192900

CH193000

NEW 3m SHARED PATH WITH 1m BERM EITHER SIDE

SH16

TO BRIGHAM CREEK

TO KUMEU

NEW RETAINING WALL GRW7. FOR DETAILS REFER TO GEOTECHNICAL DRAWINGS

NEW CONVEYANCE AND DIVERSION CHANNEL. FOR DETAILS REFER TO STORMWATER DRAWINGS

NEW 2.0m HIGH NOISE WALL

NEW CONVEYANCE AND DIVERSION CHANNEL. FOR DETAILS REFER TO STORMWATER DRAWINGS

MATCHLINE-REFER TO SHEET 8

464 472 451 465 475

ORIGINAL DRAWING IN COLOUR

DETAILED DESIGN
NOT FOR CONSTRUCTION

No.	Revision	By	Chk	Appd	Date
G	FOR CONSENTING	AH	SP	GC	25.10.22
F	FOR CONSENTING	AH	SP	GC	10.10.22
E	DETAILED DESIGN	AH	SP	GC	25.08.22
D	FOR CONSENTING	AH	SP	GC	01.08.22

Drawing Originator: Beca

Original Scale (A1) 1:500
Reduced Scale (A3) 1:1000

Design	A. HOLT	26.03.21	Approved For Construction*
Drawn	A. HOLT	26.03.21	
Dsg Verifier			
Dwg Check			Date

* Refer to Revision 1 for Original Signature

Client: WAKA KOTAHI NZ TRANSPORT AGENCY

Project: SH16 - SAFETY IMPROVEMENTS STAGE 2 BRIGHAM CREEK TO KUMEU

Title: GENERAL ARRANGEMENT PLAN SHEET 9

Discipline: CIVIL ENGINEERING

Drawing No.: 3235084-CA-1209

Rev.: G

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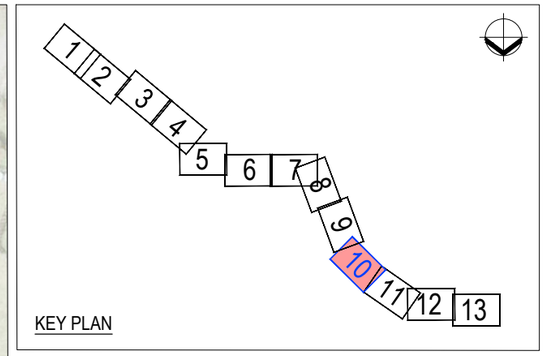
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Document No. 3235084-CA-1201 TO 1213.DWG

Drawing Plotted: 03 Nov 2022 3:00 pm

NOTES:

1. FOR CIVIL WORKS GENERAL NOTES AND LEGEND REFER TO DRAWING 3235084-CA-1200.



MATCHLINE-REFER TO SHEET 9

CH193100

NEW 2.5m WIDE FLUSH MEDIAN

TC 193+45.362

TO BRIGHAM CREEK

NEW CONVEYANCE AND DIVERSION CHANNEL. FOR DETAILS REFER TO STORMWATER DRAWINGS

NEW 2.0m HIGH NOISE WALL

HEART AND SOUL EARLY LEARNING CENTRE

NEW 3m SHARED PATH WITH 1m BERM EITHER SIDE

CH193200

CT 193271.411

CH193300

NEW 3:1 EARTHWORKS

NEW RETAINING WALL GRW8. FOR DETAILS REFER TO GEOTECHNICAL DRAWINGS

NEW TL-3 W-BEAM BARRIER SYSTEM

CH193400

EXISTING WETLAND

MATCHLINE-REFER TO SHEET 11

SH16

TO KUMEU

KUMEU VILLAGE REST HOME

482

506

507

505

491

ORIGINAL DRAWING IN COLOUR

DETAILED DESIGN
NOT FOR CONSTRUCTION

No.	Revision	By	Chk	Appd	Date
G	FOR CONSENTING	AH	SP	GC	25.10.22
F	FOR CONSENTING	AH	SP	GC	10.10.22
E	DETAILED DESIGN	AH	SP	GC	25.08.22
D	FOR CONSENTING	AH	SP	GC	01.08.22

Drawing Originator: Beca

Original Scale (A1) 1:500	Design	A. HOLT	26.03.21
	Drawn	A. HOLT	26.03.21
Reduced Scale (A3) 1:1000	Dsg Verifier		
	Dwg Check		

Approved For Construction* Date

* Refer to Revision 1 for Original Signature

Client: WAKA KOTAHI NZ TRANSPORT AGENCY

Project: SH16 - SAFETY IMPROVEMENTS STAGE 2 BRIGHAM CREEK TO KUMEU

Title: GENERAL ARRANGEMENT PLAN SHEET 10

Discipline: CIVIL ENGINEERING

Drawing No.: 3235084-CA-1210

Rev.: G

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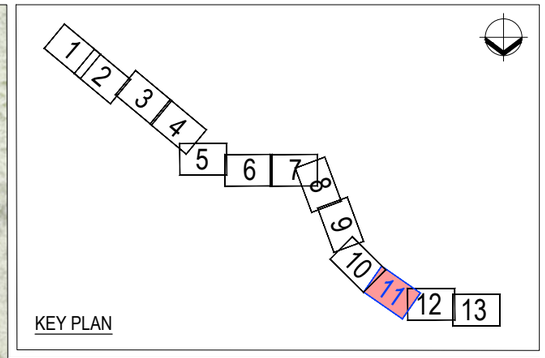
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Document No. 3235084-CA-1201 TO 1213.DWG

Drawing Plotted: 03 Nov 2022 3:01 pm

NOTES:

1. FOR CIVIL WORKS GENERAL NOTES AND LEGEND REFER TO DRAWING 3235084-CA-1200.



EXISTING WETLAND

522

NEW RETAINING WALL GRW8. FOR DETAILS REFER TO GEOTECHNICAL DRAWINGS

NEW 2.5m WIDE FLUSH MEDIAN

MATCHLINE-REFER TO SHEET 10

13 CG-1306

CH193500

NEW TL-3 W-BEAM BARRIER SYSTEM

NEW CONVEYANCE AND DIVERSION CHANNEL. FOR DETAILS REFER TO STORMWATER DRAWINGS

NEW 3m SHARED PATH WITH 1m BERM EITHER SIDE

CH193600 1936000000

BP SERVICE STATION

14 CG-1309

538

CH193700

NEW 2.0m HIGH NOISE WALL

TC 193791.335

CH193800

550

MATCHLINE-REFER TO SHEET 12

SH16

TO KUMEU

TO BRIGHAM CREEK

NEW 3:1 EARTHWORKS

KUMEU VILLAGE REST HOME

507

OLD RAILWAY ROAD

550

ORIGINAL DRAWING IN COLOUR

DETAILED DESIGN
NOT FOR CONSTRUCTION

No.	Revision	By	Chk	Appd	Date
G	FOR CONSENTING	AH	SP	GC	25.10.22
F	FOR CONSENTING	AH	SP	GC	10.10.22
E	DETAILED DESIGN	AH	SP	GC	25.08.22
D	FOR CONSENTING	AH	SP	GC	01.08.22

Drawing Originator: Beca

Original Scale (A1) 1:500
Reduced Scale (A3) 1:1000

Design	A. HOLT	26.03.21
Drawn	A. HOLT	26.03.21
Dsg Verifier		
Dwg Check		

Approved For Construction* Date

* Refer to Revision 1 for Original Signature

Client: WAKA KOTAHI NZ TRANSPORT AGENCY

Project: SH16 - SAFETY IMPROVEMENTS STAGE 2 BRIGHAM CREEK TO KUMEU

Title: GENERAL ARRANGEMENT PLAN SHEET 11

Discipline: CIVIL ENGINEERING

Drawing No.: 3235084-CA-1211

Rev.: G

DO NOT SCALE

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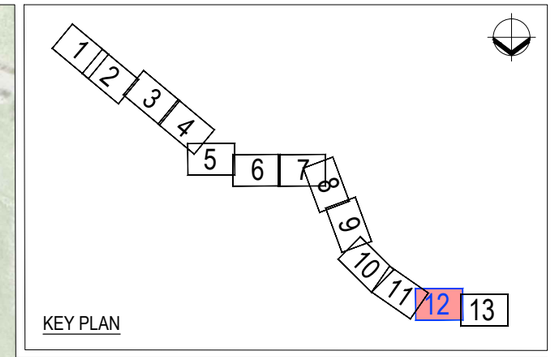
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Document No. 3235084-CA-1201 TO 1213.DWG

Drawing Plotted: 03 Nov 2022 3:01 pm

NOTES:

1. FOR CIVIL WORKS GENERAL NOTES AND LEGEND REFER TO DRAWING 3235084-CA-1200.



KUMEU RIVER

NEW RETAINING WALL GRW9. FOR DETAILS REFER TO GEOTECHNICAL DRAWINGS

NEW 2.0m HIGH NOISE WALL

TO BRIGHAM CREEK

TO 193TA-P08

CH193800

MATCHLINE-REFER TO SHEET 11

055

KUMEU RIVER WINERY

NEW PEDESTRIAN FOOTBRIDGE ADJACENT TO KUMEU BRIDGE No.1 FOR DETAILS REFER TO STRUCTURAL DRAWINGS

NEW TL-3 W-BEAM BARRIER SYSTEM

940641143

7

CH194100

SC 194144148

TO KUMEU

SH16

NEW RETENTION SWALE. FOR DETAILS REFER TO STORMWATER DRAWINGS

3

NEW 3m SHARED PATH WITH 1m BERM EITHER SIDE

5

CH193900

NEW 3:1 EARTHWORKS

CT 199949486

CH194000

15

CG-1309

EXISTING KUMEU BRIDGE No.1 TO REMAIN

14

16

12

2-12

RIVERHEAD ROAD

MATCHLINE-REFER TO SHEET 13

14

ORIGINAL DRAWING IN COLOUR

DETAILED DESIGN
NOT FOR CONSTRUCTION

No.	Revision	By	Chk	Appd	Date
G	FOR CONSENTING	AH	SP	GC	25.10.22
F	FOR CONSENTING	AH	SP	GC	10.10.22
E	DETAILED DESIGN	AH	SP	GC	25.08.22
D	FOR CONSENTING	AH	SP	GC	01.08.22

Drawing Originator: Beca

Original Scale (A1) 1:500
Reduced Scale (A3) 1:1000

Design	A. HOLT	26.03.21
Drawn	A. HOLT	26.03.21
Dsg Verifier		
Dwg Check		

Approved For Construction* Date

* Refer to Revision 1 for Original Signature

Client: WAKA KOTAHI NZ TRANSPORT AGENCY

Project: SH16 - SAFETY IMPROVEMENTS STAGE 2 BRIGHAM CREEK TO KUMEU

Title: GENERAL ARRANGEMENT PLAN SHEET 12

Discipline: CIVIL ENGINEERING

Drawing No.: 3235084-CA-1212

Rev.: G

DO NOT SCALE

IF IN DOUBT ASK.

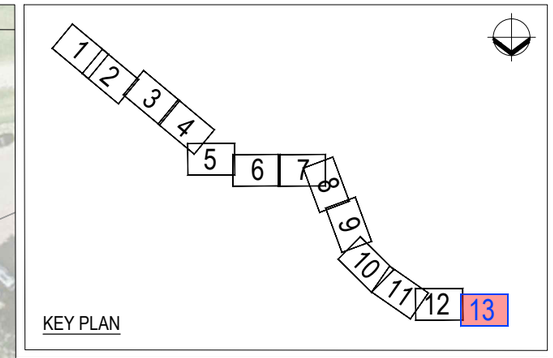
www.beca.com

Document No. 3235084-CA-1201 TO 1213.DWG

Drawing Plotted: 03 Nov 2022 3:01 pm

NOTES:

1. FOR CIVIL WORKS GENERAL NOTES AND LEGEND REFER TO DRAWING 3235084-CA-1200.



NEW 2.5m SHARED PATH ACROSS SHOP FRONTAGE WITH DRIVEWAY REGRADING

SHARED PATH TO TIE INTO AUCKLAND TRANSPORT ACCESS ROAD UPGRADE PROJECT

CS 1942080.563

CH19420

STA 1942048.563

CH19430

CH19440

EXTENT OF WORKS

TO BRIGHAM CREEK

WEZA LANE

WAITAKERE ROAD

ACCESS ROAD

SH16

MATCHLINE-REFER TO SHEET 12

ORIGINAL DRAWING IN COLOUR

DETAILED DESIGN
NOT FOR CONSTRUCTION

No.	Revision	By	Chk	Appd	Date
G	FOR CONSENTING	AH	SP	GC	25.10.22
F	FOR CONSENTING	AH	SP	GC	10.10.22
E	DETAILED DESIGN	AH	SP	GC	25.08.22
D	FOR CONSENTING	AH	SP	GC	01.08.22

Drawing Originator: Beca

Original Scale (A1) 1:500
Reduced Scale (A3) 1:1000

Design	A. HOLT	26.03.21	Approved For Construction*
Drawn	A. HOLT	26.03.21	
Dsg Verifier			
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Client: WAKA KOTAHI NZ TRANSPORT AGENCY

Project: SH16 - SAFETY IMPROVEMENTS STAGE 2 BRIGHAM CREEK TO KUMEU

Title: GENERAL ARRANGEMENT PLAN SHEET 13

Discipline: CIVIL ENGINEERING

Drawing No.: 3235084-CA-1213

Rev.: G

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Document No. 3235084-CA-1201 TO 1213.DWG