Written approval of affected persons

PART A (to be completed by applicant)

PART A – APPLICATION

Applicant(s) name: (*please write all names in full*)	Waka Kotahi NZ Transport Agency	
Address of proposed activity:	Multiple	Consent number if known:

Brief description of proposed activity:

The SH16 Stage 2 Project involves upgrading 4.3 km of SH16 between Brigham Creek Road and Kumeū. Specifically, works within proximity to Transpower assets are for the installation of a shared use bridge in parallel with the Kumeu No. 1 Existing Road Bridge.

Plan references (including title, author and date):

"Combined Services Plan" prepared by Beca, Drawing No.3235084-CU-2075
"Kumeu Shared Use Bridge General Arrangement Plan" prepared by Beca, Drawing No. 3235084-SE-4005-4006

Resource consent(s) being sought for (describe area(s) of non-compliance):

Notice of Requirement to alter two existing designations (Waka Kotahi Designation 6740 and Designation 6766) in Auckland Unitary Plan - Operative in Part 2016.

PART B (to be completed by persons and/or organisations providing written approval)

PART B – AFFECTED PERSON(S)

		Tick if Owner	Tick if Occupier
Full name: (*in print*)	Transpower New Zealand Limited		✔
Full name: (*in print*)			
Full name: (*in print*)			

Address of affected property:	Postcode:		
Phone:		Mobile:	027 564 5757

PART B – AFFECTED PERSON(S) *(continued)*

I have authority to sign on behalf of all the other: (*tick one*)

☐ OWNER(S) ☑ OCCUPIER(S)

of the property. Please provide documentation proving this authority.

Please note: the approval of all the legal owners and the occupiers of the affected property may be necessary.

PART C (to be completed by persons and/or organisations providing written approval)

PART C – DECLARATION

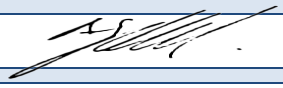
☑ I/We have been given details of the proposal and plans to which I/we are giving written approval.

☑ I/We have signed each page of the plans in respect of this proposal. These need to accompany this form.

☑ I/We understand that by giving my/our written approval, the Council when considering the application cannot take account of any actual or potential effects of the activity on my/our property.

☑ Further, I/we understand that at any time before the determination of the application, I/we may give notice in writing to the Council that this approval is withdrawn.

Note: You should only sign below if you fully understand the proposal. If you require the resource consent process to be explained you can contact the Customer Service Team at the Council who can provide you with information.

Signature(s):		Date:	17 November 2022
Signature(s):	Andy Eccleshall	Date:	on behalf of Transpower NZ Ltd
Signature(s):	Senior Environmental Planner	Date:	

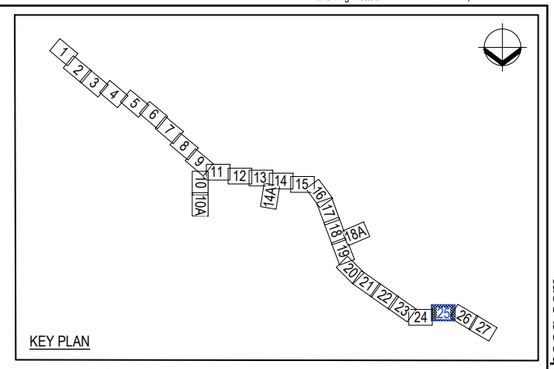
PRIVACY INFORMATION

The council requires the information you have provided on this form to process your application under the RMA and to collect statistics. The council will hold and store the information, including all associated reports and attachments, on a public register. The details may also be made available to the public on the council's website. These details are collected to inform the general public and community groups about all consents which have been processed or issued through the council. If you would like to request access to, or correction of any details, please contact the council.

Transpower Approved Plans

Signed on behalf of Transpower New Zealand Limited
by Andy Eccleshall – Senior Environmental Planner
17 November 2022

andy.eccleshall@transpower.co.nz
04 590 8687



NEW SERVICES TO CROSS BELOW STORMWATER PIPE. MIN. 300mm SEPARATION TO BE MAINTAINED

NEW ITS PIT

EXISTING VECTOR SERVICE PILLAR TO BE RELOCATED CLEAR OF NEW FOOTPATH

NEW CHORUS PIT

TS 194084.143

CH194100

SC 194144.143

375 mm

FOR UTILITY CROSSING BRIDGE REFER TO DWG 3235084-SE-4030

CH194000

SH16

EXISTING VECTOR PILLAR TO BE REPLACED

NEW CHORUS PIT

NEW WASTE WATER MAIN TO CONNECT TO EXISTING.REFER TO 3235084-CU-2151 TO 2154 WASTEWATER PLAN AND LONG SECTION FOR DETAILS

LOCATION OF EXISTING CHORUS DUCT TO BE CONFIRMED, ASSET TO BE PROTECTED DURING CONSTRUCTION OR LOCALLY DEEPENED PRIOR TO COMMENCEMENT OF WORKS

INSTALL SERVICE IN VERGE: 1x100mm STREET LIGHT DUCT

EXISTING SPARK HIGH VOLTAGE INTERNATIONAL CABLE TO REMAIN AND BE PROTECTED AT ALL TIMES

REFER TO STRUCTURES DRAWINGS 3235084-SE-4005 TO 4007 FOR SERVICE CROSSING DETAILS AT THE KUMEU NO.1 BRIDGE

MATCHLINE-REFER TO SHEET 25

MATCHLINE-REFER TO SHEET 25

DISCLAIMER:

THE LOCATIONS OF UNDERGROUND SERVICES HAVE BEEN DIGITISED FROM EXISTING RECORDS PROVIDED BY LOCAL AUTHORITIES AND SERVICE PROVIDERS. THE PRINCIPAL DOES NOTE ACCEPT ANY RESPONSIBILITY FOR THE ACCURACY OR COMPLETENESS OF THIS INFORMATION. THE LOCATION OF ALL UNDERGROUND SERVICES AND ALL DIMENSIONS SHALL BE VERIFIED ON SITE PRIOR TO THE COMMENCEMENT OF ANY WORKS.

NOTES:

1. REFER TO 3235084-CU-2050 FOR LEGEND AND GENERAL NOTES.
2. REFER TO 3235084-CU-2081 TO 2088 FOR TRENCH DETAILS.
3. WHERE DEPTH OF COVER IS TO BE INCREASED OR DECREASED, THE ASSET OWNER IS TO BE NOTIFIED AND CONSULTED.
4. ALL PERMANENT INFRASTRUCTURE MUST BE WITHIN ROAD RESERVE AND PERMANENT LAND TAKE BOUNDARIES.
5. FOR ALL UTILITIES UNDER CARRIAGEWAY OR SHOULDERS, THE MINIMUM COVER TO DUCTS SHALL BE 1500mm.
6. NEW SERVICES TO CROSS BELOW STORMWATER PIPE. MINIMUM 300mm VERTICAL SEPARATION TO BE MAINTAINED.
7. NEW SERVICES TO CROSS ABOVE STORMWATER PIPE. MINIMUM 300mm VERTICAL SEPARATION TO BE MAINTAINED.
8. REFER TO 3235084-CU-2101-2154 FOR WATER AND WASTEWATER PLAN AND DETAILS

ORIGINAL DRAWING IN COLOUR

DETAILED DESIGN
NOT FOR CONSTRUCTION

No.	Revision	By	Chk	Appd	Date
C	FOR CONSENT	VZ	VZ	GC	12.10.22
B	DRAFT DETAILED DESIGN	OH	VZ	GC	19.01.22
A	PRELIMINARY DESIGN	TW	VZ	NL	26.03.21

Drawing Originator: Beca

Original Scale (A1) 1:250	Design	T.WU	26.03.21
	Drawn	ES, OH	26.03.21
Reduced Scale (A3) 1:500	Dsg Verifier	KM	10.10.22
	Dwg Check	KM	10.10.22

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: COMBINED SERVICES PLAN SHEET 25

Discipline: CIVIL ENGINEERING

Drawing No.: 3235084-CU-2075 Rev. C

Document No. 3235084-CU-2051 TO 2077.DWG

www.beca.com

DO NOT SCALE

IF IN DOUBT ASK.

Transpower Approved Plans

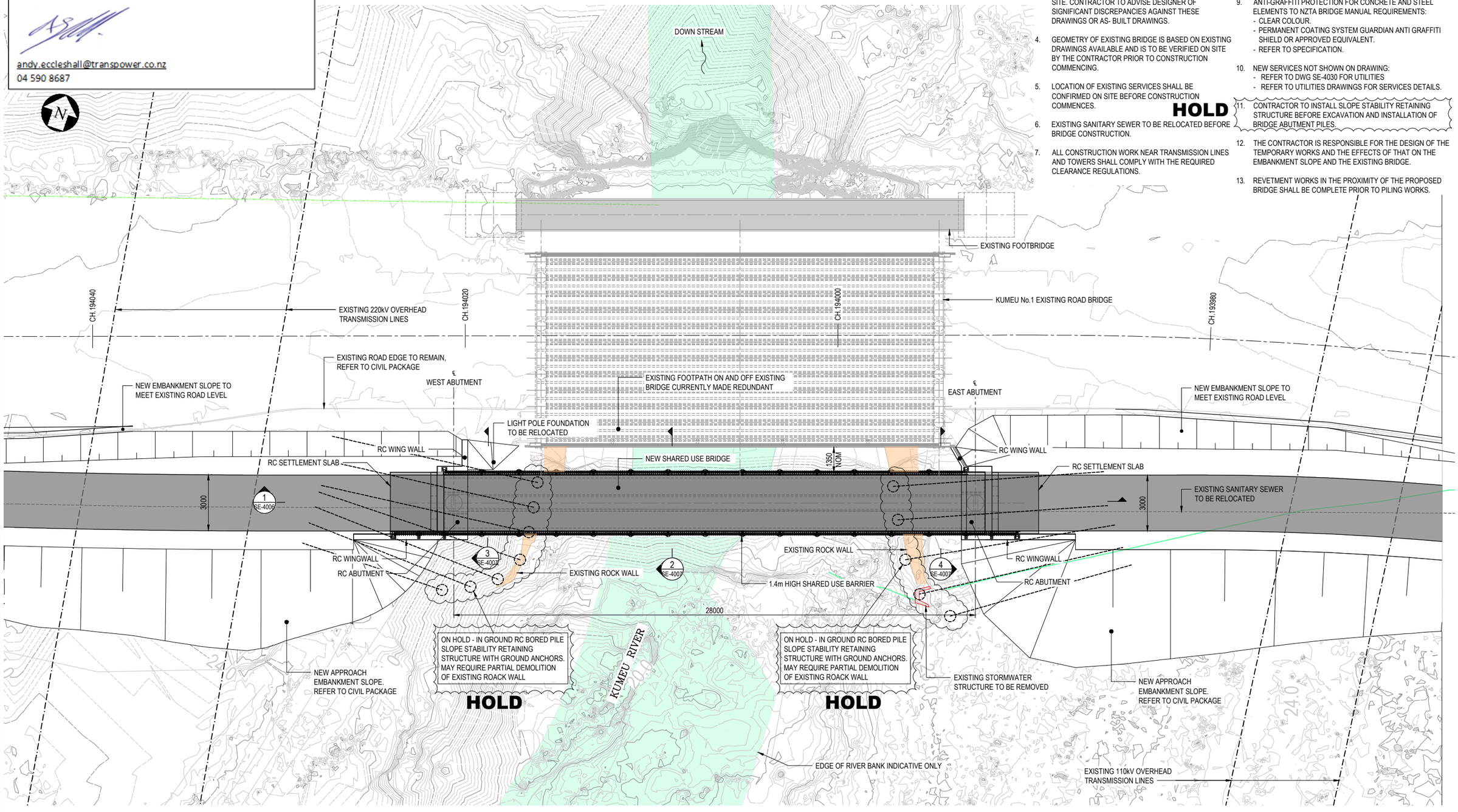
Signed on behalf of Transpower New Zealand Limited by Andy Eccleshall – Senior Environmental Planner

17 November 2022

andy.eccleshall@transpower.co.nz
04 590 8687

NOTES

1. REFER SE-4001 TO SE-4004 FOR GENERAL NOTES.
2. REFER TO CIVIL PACKAGE FOR GEOMETRIC, SERVICES AND DRAWINGS.
3. ALL DIMENSIONS & SETTING OUT TO BE CONFIRMED ON SITE. CONTRACTOR TO ADVISE DESIGNER OF SIGNIFICANT DISCREPANCIES AGAINST THESE DRAWINGS OR AS- BUILT DRAWINGS.
4. GEOMETRY OF EXISTING BRIDGE IS BASED ON EXISTING DRAWINGS AVAILABLE AND IS TO BE VERIFIED ON SITE BY THE CONTRACTOR PRIOR TO CONSTRUCTION COMMENCING.
5. LOCATION OF EXISTING SERVICES SHALL BE CONFIRMED ON SITE BEFORE CONSTRUCTION COMMENCES.
6. EXISTING SANITARY SEWER TO BE RELOCATED BEFORE BRIDGE CONSTRUCTION.
7. ALL CONSTRUCTION WORK NEAR TRANSMISSION LINES AND TOWERS SHALL COMPLY WITH THE REQUIRED CLEARANCE REGULATIONS.
8. THE CONTRACTOR SHALL ENSURE ANY CONSTRUCTION AND EXCAVATION WORK WILL NOT ADVERSELY AFFECT THE EXISTING BRIDGE, EXISTING SERVICE FOUNDATION AND OTHER EXISTING STRUCTURES. TEMPORARY WORKS TO BE DESIGNED BY THE CONTRACTOR.
9. ANTI-GRAFFITI PROTECTION FOR CONCRETE AND STEEL ELEMENTS TO NZTA BRIDGE MANUAL REQUIREMENTS:
   - CLEAR COLOUR.
   - PERMANENT COATING SYSTEM GUARDIAN ANTI GRAFFITI SHIELD OR APPROVED EQUIVALENT.
   - REFER TO SPECIFICATION.
10. NEW SERVICES NOT SHOWN ON DRAWING:
    - REFER TO DWG SE-4030 FOR UTILITIES
    - REFER TO UTILITIES DRAWINGS FOR SERVICES DETAILS.
11. CONTRACTOR TO INSTALL SLOPE STABILITY RETAINING STRUCTURE BEFORE EXCAVATION AND INSTALLATION OF BRIDGE ABUTMENT PILES. **HOLD**
12. THE CONTRACTOR IS RESPONSIBLE FOR THE DESIGN OF THE TEMPORARY WORKS AND THE EFFECTS OF THAT ON THE EMBANKMENT SLOPE AND THE EXISTING BRIDGE.
13. REVETMENT WORKS IN THE PROXIMITY OF THE PROPOSED BRIDGE SHALL BE COMPLETE PRIOR TO PILING WORKS.



A - PLAN
1:100 (A1), 1:200 (A3)

ORIGINAL DRAWING IN COLOUR

DETAILED DESIGN
NOT FOR CONSTRUCTION

No.	Revision	By	Chk	Appd	Date
D	ISSUED FOR DRAFT DETAILED DESIGN	PN	TC	GC	26.08.22
C	PEER REVIEW 30% DESIGN	TZ	DS	GC	23.03.22
B	ISSUED FOR DRAFT DETAILED DESIGN	TZ	DS	GC	19.0122
A	PRELIMINARY DESIGN	PN	TC	NL	26.03.21

Drawing Originator: Beca

Original Scale (A1) 1:100
Reduced Scale (A3) 1:200

Design	M.MORELLI	19.01.22	Approved For Construction*
Drawn	T.ZHU	19.01.22	
Dsg Verifier			
Dwg Check	D.SHINNICK	19.01.22	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: KUMEU SHARED USE BRIDGE GENERAL ARRANGEMENT PLAN

Discipline: STRUCTURAL ENGINEERING
Drawing No.: 3235084-SE-4005
Rev.: D

Document No. 3235084-SE-4005.DWG

www.beca.com
DO NOT SCALE
IF IN DOUBT ASK.

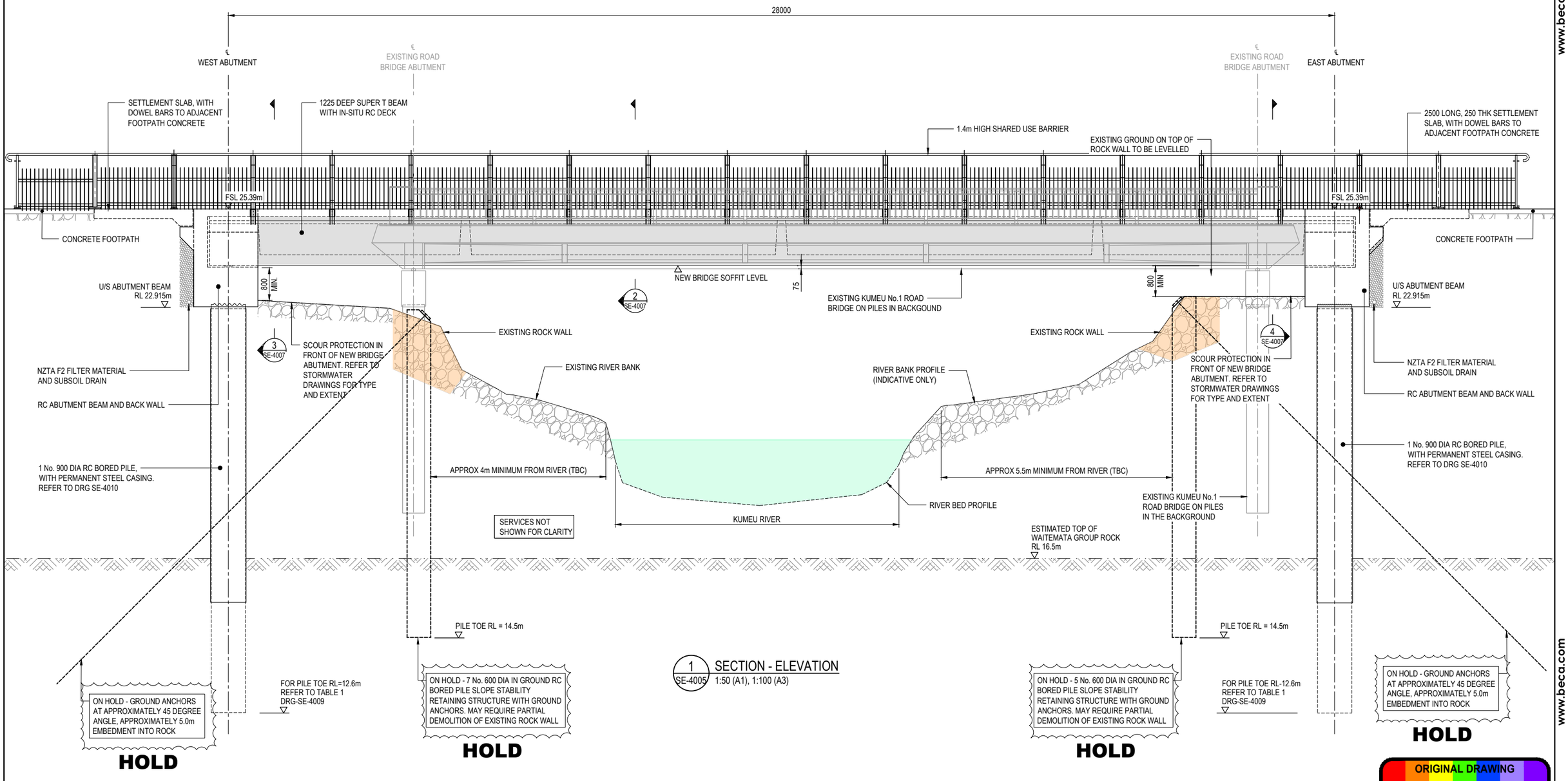
Transpower Approved Plans

Signed on behalf of Transpower New Zealand Limited by Andy Eccleshall – Senior Environmental Planner
17 November 2022

andy.eccleshall@transpower.co.nz
04 590 8687

NOTES

1. REFER TO DRAWING SE-4005 FOR NOTES.
2. THE LEVEL AND CONTINUITY OF THE TOP OF SLIGHTLY WEATHERED TO UNWEATHERED ROCK IS INFERRED BASED ON OBSERVATIONS AND THE RESULTS OF TESTING AT DISCRETE LOCATIONS NEAR BUT OFF THE ALIGNMENT OF THE NEW BRIDGE STRUCTURE. AS SUCH, THE ACTUAL ROCK LEVELS ACROSS THE BRIDGE SITE MAY VARY FROM WHAT IS SHOWN ON THIS DRAWING.
3. 1225 SUPER TEE GIRDERS REFERRED TO HEREIN ADOPTS A SLIGHTLY MODIFIED GIRDER GEOMETRY TO THAT OF THE STANDARD NZTA WAKA KOTAHI 1225 STANDARD SUPER TEE DRAWINGS.
4. SLOPE STABILITY PILES TO BE INSTALLED PRIOR TO COMMENCING BRIDGE PILING WORKS. REFER TO DRG SE-4005.



1 SE-4005 SECTION - ELEVATION
1:50 (A1), 1:100 (A3)

ORIGINAL DRAWING IN COLOUR

DETAILED DESIGN
NOT FOR CONSTRUCTION

No.	Revision	By	Chk	Appd	Date
D	ISSUED FOR DRAFT DETAILED DESIGN	PN	TC	GC	26.08.22
C	PEER REVIEW 30% DESIGN	TZ	DS	GC	23.03.22
B	ISSUED FOR DRAFT DETAILED DESIGN	TZ	DS	GC	19.0122
A	PRELIMINARY DESIGN	PN	TC	NL	26.03.21

Drawing Originator: Beca

Original Scale (A1) 1:50
Reduced Scale (A3) 1:100

Design	M.MORELLI	19.01.22	Approved For Construction*
Drawn	T.ZHU	19.01.22	
Dsg Verifier			
Dwg Check	D.SHINNICK	19.01.22	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: KUMEU SHARED USE BRIDGE GENERAL ARRANGEMENT LONG SECTION

Discipline: STRUCTURAL ENGINEERING
Drawing No.: 3235084-SE-4006
Rev.: D

Document No. 3235084-SE-4006.DWG

DO NOT SCALE
IF IN DOUBT ASK.
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Written approval of affected persons

PART A (to be completed by applicant)

PART A – APPLICATION

Applicant(s) name: (*please write all names in full*): Waka Kotahi NZ Transport Agency

Address of proposed activity: Multiple

Consent number if known:

Brief description of proposed activity:

The SH16 Stage 2 Project involves upgrading 4.3 km of SH16 between Brigham Creek Road and Kumeū. In summary this will include: Widening the existing corridor to accommodate additional traffic lanes between Brigham Creek Roundabout and Taupaki Road Roundabout; A two lane roundabout at the intersection of Coatesville-Riverhead Highway; and a 3m wide

Plan references (including title, author and date):

"Combined Services Plan" prepared by Beca, Drawing No.3235084-CU-2050-2077 Rev C

Resource consent(s) being sought for (describe area(s) of non-compliance):

Notice of Requirement to alter two existing designations (Waka Kotahi Designation 6740 and Designation 6766) in Auckland Unitary Plan - Operative in Part 2016.

PART B (to be completed by persons and/or organisations providing written approval)

PART B – AFFECTED PERSON(S)

		Tick if Owner	Tick if Occupier
Full name: (*in print*)	Spark NZ Trading Ltd		✔
Full name: (*in print*)			
Full name: (*in print*)			

Address of affected property: Existing public road verge SH16 Brigham Creek Road to Kumeu Postcode:

Phone: 09-357 7456 Mobile: 0-27-498 4861

PART B – AFFECTED PERSON(S) *(continued)*

I have authority to sign on behalf of all the other: (*tick one*)

☐ OWNER(S) ☐ OCCUPIER(S)

of the property. Please provide documentation proving this authority.

Please note: the approval of all the legal owners and the occupiers of the affected property may be necessary.

PART C (to be completed by persons and/or organisations providing written approval)

PART C – DECLARATION

✔ I/We have been given details of the proposal and plans to which I/we are giving written approval.

✔ I/We have signed each page of the plans in respect of this proposal. These need to accompany this form.

✔ I/We understand that by giving my/our written approval, the Council when considering the application cannot take account of any actual or potential effects of the activity on my/our property.

✔ Further, I/we understand that at any time before the determination of the application, I/we may give notice in writing to the Council that this approval is withdrawn.

Note: You should only sign below if you fully understand the proposal. If you require the resource consent process to be explained you can contact the Customer Service Team at the Council who can provide you with information.

Signature(s):		Date:	15/11/22
Signature(s):		Date:	
Signature(s):		Date:	

PRIVACY INFORMATION

The council requires the information you have provided on this form to process your application under the RMA and to collect statistics. The council will hold and store the information, including all associated reports and attachments, on a public register. The details may also be made available to the public on the council's website. These details are collected to inform the general public and community groups about all consents which have been processed or issued through the council. If you would like to request access to, or correction of any details, please contact the council.

GENERAL NOTES:

1. CONTRACTOR TO LIAISE WITH ALL RELEVANT UTILITY OPERATORS AFFECTED BY THE WORKS.
2. ALL UTILITY LAYOUT PLANS AND TYPICAL CROSS-SECTIONS MUST BE READ IN CONJUNCTION WITH RELATED DRAWINGS (IN PARTICULAR, LIGHTING, STORMWATER, RETAINING WALLS, BRIDGES, BARRIER AND LANDSCAPING PLANS AND DETAILS) AND SPECIFICATIONS.DISCREPANCIES SHALL BE REFEREED TO THE ENGINEER FOR RESOLUTION.
3. CONTRACTOR SHALL VALIDATE ALL AS-BUILT INFORMATION AND EXISTING UTILITIES ON SITE PRIOR TO COMMENCEMENT OF CONSTRUCTION WORKS. DISCREPANCIES BETWEEN EXISTING UTILITIES AND AS-BUILT INFORMATION TO BE REFERRED TO THE ENGINEER FOR RESOLUTION
4. THE CONTRACTOR IS RESPONSIBLE FOR SITE TEMPORARY SUPPLIES AND ENABLING WORKS.
5. WEEKEND WORKS MAY HAVE TO BE UNDERTAKEN TO ACCOMMODATE NETWORK OR CUSTOMER REQUIREMENTS; THE CONTRACTOR SHALL ACCOMMODATE THESE WEEKEND WORKS.
6. ALL CONNECTIONS TO PRIVATE PROPERTIES WILL BE ARRANGED AND COMPLETED BY RELEVANT UTILITY OPERATORS.
7. THE CONTRACTOR SHALL OBTAIN A PERMIT TO WORK AROUND SERVICES FROM RELEVANT UTILITY OPERATORS.
8. ALL REDUNDANT INFRASTRUCTURE IS TO BE ABANDONED UNLESS OTHERWISE AGREED WITH UTILITY OPERATORS.
9. CONTRACTOR TO IDENTIFY ANY CLASHES AT NEW SERVICE POLES, TERMINAL POLES, LIGHTING POLES, TRANSFORMERS, SWITCHES, PITS, PILLARS AND MANHOLE LOCATIONS PRIOR TO RELOCATING SERVICES BY SETTING OUT NEW LOCATIONS AND PILOT TRENCHING.
10. ALL DUCTS ARE TO BE CLEARED, CAPPED, TESTED AND DRAW WIRES INSTALLED, READY FOR UTILITY OPERATORS TO DRAW CABLES.
11. ALL SERVICE LIDS TO BE FLUSH WITH FINISHED GROUND OR AS ACCEPTED BY THE ENGINEER. WHERE LIDS ARE LOCATED ON FOOTPATHS, SERVICES LID SHOULD HAVE ANTI-SKID SURFACING.
12. ALL EXISTING SERVICE LINE TERMINATIONS OR RELOCATIONS SHALL BE AGREED WITH THE RELEVANT UTILITY OPERATOR ON-SITE.
13. CONTRACTOR TO REINSTATE ALL ABOVE GROUND SERVICES MARKERS.
14. FINAL POSITION OF NEW SERVICE POLES, TERMINAL POLES, LIGHTING POLES, TRANSFORMERS, SWITCHES, PITS, PILLARS AND MANHOLES TO BE AGREED ON SITE WITH CONTRACTOR'S ENGINEER AND RELEVANT UTILITY OPERATORS PRIOR TO CONSTRUCTION.
15. WHERE INDICATED ON LAYOUT PLANS, DUCTS SHALL BE LOCALLY DEEPENED OR MADE SHALLOW TO PASS STORMWATER PIPE/CULVERT CROSSINGS. A MINIMUM VERTICAL SEPARATION OF 150mm TO STORMWATER PIPES/CULVERTS AND MINIMUM/MAXIMUM BENDING RADIUS' FOR EACH SERVICE SHOULD BE MET.
8. THE LOCATION OF EXISTING SERVICES SHOWN ON PLANS IS INDICATIVE ONLY AS SOME EXISTING ASSETS MAY NOT HAVE BEEN CAPTURED. THE CONTRACTOR SHALL LIAISE WITH SERVICE PROVIDERS CONTRACTORS TO MARK OUT AND LOCATE EXISTING SERVICES PRIOR TO EXCAVATION. PILOT TRENCHING SHALL BE UNDERTAKEN TO DETERMINE THE ACTUAL POSITION OF EXISTING SERVICES. THE CONTRACTOR SHALL PROTECT THE EXISTING UTILITIES NETWORK AND IS RESPONSIBLE FOR ANY DAMAGES.

VECTOR NOTES:

1. CONTRACTOR TO ADHERE TO VECTOR'S 'GAS PIPELINE SAFETY GUIDE' AND 'A GUIDE TO WORKING SAFELY AROUND VECTOR'S ELECTRICITY, GAS AND COMMUNICATIONS NETWORKS' DOCUMENTS.
2. WHEN WORKING WITHIN 2m OF A GAS PIPELINE, CONTRACTOR TO ACQUIRE A CLOSE APPROACH CONSENT. CONSENT TO BE ISSUED PRIOR TO STARTING WORK.
3. JOB START DATE, CONTRACTOR NAME, CONTACT NUMBER, PREFERRED APPOINTMENT DATE AND TIME TO BE INDICATED BY PHONE CALL AND EMAIL TO NETWORK PLANNER JOHN MCALISTER 021 996-989 OR JOHN.MCALISTER@ELECTRIX.CO.NZ. MINIMUM OF 48 HOURS NOTICE IS REQUIRED.
4. THE VECTOR POWER DUCTS INSTALLATION MUST COMPLY WITH THE FOLLOWING VECTOR STANDARDS:
   - VECTOR STANDARD ESE303 - INSTALLATION REQUIREMENTS FOR CABLES AND DUCTS
   - VECTOR STANDARD EDE3021-3024 - UNDERGROUND RETICULATION - TRENCH PROFILE
   - VECTOR STANDARD ENS-0110 - THERMAL BACKFILL FOR UNDERGROUND CABLES
   - VECTOR STANDARD CAP-095 - CIVIL WORKS SPECIFICATION (NZS 3910)
   - VECTOR STANDARD END-2122 - SERVICE PIT ARRANGEMENT - TYPICAL CROSS-SECTION INSTALLATION DETAIL
5. FOR EACH CROSSING BETWEEN VECTOR UTILITIES AND STORMWATER, THE CONTRACTOR MUST SUBMIT CONSTRUCTION METHODOLOGY TO VECTOR FOR APPROVAL
6. CONTRACTOR TO ENSURE MINIMUM BENDING RADIUS OF CABLES / GAS PIPES ARE ADHERED TO.
7. PILLARS TO BE 450L x 450W x 600H mm (ABOVE GROUND DUCTS) x 400D (BELOW GROUND).
8. PITS TO BE 450mm DIAMETER AND 600mm DEEP. U.N.O
9. FINAL MANHOLES, PITS, PILLARS, JOINTS, SERVICE POLES, TERMINAL POLES, TRANSFORMERS AND SWITCH LOCATIONS TO BE CONFIRMED ON SITE WITH VECTOR AND CONTRACTOR'S ENGINEER.

TRAFFIC SIGNAL NOTES:

1. TRAFFIC SIGNAL EQUIPMENT AND INSTALLATION SHALL COMPLY WITH NZTA P43 SPECIFICATION FOR TRAFFIC SIGNAL (2018) AND THE AUCKLAND TRAFFIC MANAGEMENT UNIT: TRAFFIC SIGNALS DESIGN GUIDELINES (VERSION 3.0 AUGUST 2010).
2. REFER TO SIGNAGE AND MARKING DRAWINGS 3235084-CT-2800 TO 2813 FOR DETAILS AND NOTES.

TRANSPOWER NOTES:

1. WHERE THE PROPOSED WORKS, INCLUDING USE OF MOBILE PLANT ARE WITHIN CLOSE PROXIMITY (CLOSER THAN 200m) TO TRANSPOWER TRANSMISSION LINES, THE CONTRACTOR SHALL INFORM TRANSPOWER PRIOR TO UNDERTAKING WORKS.

CHORUS NOTES:

1. MANHOLES TO BE STANDARD SIKA 1200L x 600W x 600Dmm.
2. PITS TO BE 600L x 600W x 600D mm IN SIZE.
3. FINAL MANHOLE AND PIT LOCATIONS TO BE CONFIRMED ON SITE WITH CHORUS.
4. CHORUS SHALL CONNECT NEW DUCTS/CABLES TO EXISTING CHORUS DUCTS AND CABLES.
5. NEW CHORUS FIBRE CONNECTIONS TO PROPERTIES MAY HAVE BEEN INSTALLED THAT HAVE NOT BEEN IDENTIFIED IN THESE DRAWINGS. PRIOR TO CONSTRUCTION ALL NEW CONNECTIONS MUST BE IDENTIFIED BY CONTACTING DANIEL SAMUEL PH. 0212970982
6. THE RIBBONET DUCT TO BE LAID CLOSEST TO THE BOUNDARY TO INSTALL DROP OFF'S. CONTRACTOR TO LIAISE WITH VISIONSTREAM FIELD MANAGER FOR ALL ASPECTS OF RIBBONET INSTALLATION.
7. THE STANDARD GROUND COVER REQUIRED IS 600mm FOR NEW DUCT LINES IN STABLE WELL FORMED AREAS AND 1.0m UNDER CARRIAGEWAY AREAS UNLESS SPECIFIED OTHERWISE.

SPARK NOTES:

1. THE SPARK HIGH VOLTAGE INTERNATIONAL CABLE RUNS ALONG THE NORTHERN SIDE OF SH16 INSIDE A SHARED TRENCH WITH CHORUS COMMUNICATION DUCTS. THE LOCATION AND DEPTH OF INTERNATIONAL CABLE SHALL BE CONFIRMED PRIOR TO COMMENCEMENT OF ANY WORKS, AND THE INTERNATIONAL CABLE SHALL BE PROTECTED AT ALL TIMES DURING CONSTRUCTION.
2. SPARK INTERNATIONAL PATROLMAN IAN MACCLURE (OR NOMINATED ALTERNATIVE) WILL BE REQUIRED TO STAND OVER DURING THE INSTALLATION OR RELOCATION OF ANY WORKS WITHIN THE VICINITY OF THE SPARK INTERNATIONAL CABLE.
3. THE CONTRACTOR SHALL NOTIFY AND LIAISE WITH SPARK FOR THE REVIEW OF PROPOSED RELOCATION/PROTECTION METHODOLOGY.
4. THE EXISTING SPARK DUCTS AND CABLES, INCLUDING THE SOUTHERN CROSS INTERNATIONAL CABLE, ARE NOT REQUIRED TO BE RELOCATED
5. THE EXISTING SPARK DUCTS AND CABLES, INCLUDING THE SOUTHERN CROSS INTERNATIONAL CABLE, ARE TO BE PROTECTED AT ALL TIMES
6. THE CONTRACTOR(S) DOING THE WORKS SHALL NOT EXCAVATE WITHIN 0.5m VERTICAL CLEARANCE OR 1m LATERAL CLEARANCE OF THE SPARK DUCTS AND CABLES, INCLUDING THE SOUTHERN CROSS INTERNATIONAL CABLE
7. SPARK SHALL BE CONSULTED ON ANY DESIGN CHANGES THROUGHOUT THE PROJECT THAT MAY AFFECT THE ONGOING OPERATION OF SPARK DUCTS AND CABLES, INCLUDING THE SOUTHERN CROSS INTERNATIONAL CABLE
8. THE PROJECT DESIGN WILL AIM TO PROVIDE FOR ONGOING ACCESS TO THE SPARK DUCTS AND CABLES, INCLUDING THE SOUTHERN CROSS INTERNATIONAL CABLE, ESPECIALLY SPARK MANHOLES, FOR ONGOING OPERATIONAL PURPOSES AND FOR THE REUSE OF THE DUCTLINE FOR FUTURE DABLES. WHERE THIS MAY NOT BE ACHIEVED, PROJECT DESIGN TEAM SHALL NOTIFY SPARK AND LIAISE WITH SPARK TO ARRIVE AT AN ACCEPTABLE ALTERNATIVE DESIGN SOLUTION

VODAFONE NOTES:

1. PITS TO BE 1200L x 600W x 900D mm IN SIZE.
2. FINAL MANHOLE AND PIT LOCATIONS TO BE CONFIRMED ON SITE WITH VODAFONE.
3. VODAFONE SHALL CONNECT NEW DUCTS/CABLES TO EXISTING VODAFONE DUCTS AND CABLES.
4. THE STANDARD GROUND COVER REQUIRED IS 900mm FOR NEW DUCT LINES IN STABLE WELL FORMED AREAS AND 1.0m UNDER CARRIAGEWAY AREAS UNLESS SPECIFIED OTHERWISE.
5. THE LOCATION OF EXISTING SERVICES SHOWN ON PLANS IS INDICATIVE ONLY AS SOME EXISTING ASSETS MAY NOT HAVE BEEN CAPTURED. THE CONTRACTOR SHALL LIAISE WITH VODAFONE CONTRACTORS TO MARK OUT AND LOCATE EXISTING SERVICES PRIOR TO EXCAVATION. PILOT TRENCHING SHALL BE UNDERTAKEN TO DETERMINE THE ACTUAL POSITION OF EXISTING SERVICES. THE CONTRACTOR SHALL PROTECT THE VODAFONE NETWORK AND IS RESPONSIBLE FOR ANY DAMAGES.

VOCUS NOTES:

1. JOINTING PITS TO BE SIKA ALUMINIUM MANHOLE 1200L x 600W x 1200D mm IN SIZE.
2. FINAL MANHOLE AND PIT LOCATIONS TO BE CONFIRMED ON SITE WITH VOCUS.
3. VOCUS SHALL CONNECT NEW DUCTS/CABLES TO EXISTING VOCUS DUCTS AND CABLES.
4. THE STANDARD GROUND COVER REQUIRED IS 600mm FOR NEW DUCT LINES IN STABLE WELL FORMED AREAS AND 1.0m UNDER CARRIAGEWAY AREAS UNLESS SPECIFIED OTHERWISE.

WATERCARE NOTES:

1. EXISTING CRITICAL WATERMAIN (450 OD PE100) IS TO BE RETAINED AND PROTECTED DURING CONSTRUCTION.
2. PIPELINE SHALL BE INSTALLED WITH THE FOLLOWING DEPTH TO INVERT MEASURED TO THE FINAL SURFACE LEVEL.
   a. IN BERMS A MINIMUM COVER OF 600mm UP TO A MAXIMUM OF 1000mm;
   b. IN CARRIAGEWAYS A MINIMUM 900mm UP TO 1200mm; OR
   c. AS OTHERWISE AGREED OR REQUIRED BY WATERCARE AND THE CORRIDOR MANAGER WHERE THE WORKS ARE IN THE ROAD RESERVE

CONSTRUCTION CO-ORDINATION CHECKS:

1. CHORUS, VECTOR AND NZTA CONTRACTORS TO SET OUT PERMANENT WORKS FOR PRIVATE PROPERTY CONNECTIONS (PITS, PILLARS, SERVICE POLES) WITH THE CONTRACTOR PRIOR TO THE COMMENCEMENT OF CONSTRUCTION TO ALLOW FOR A FINAL COORDINATION CHECK TO BE MADE BY ALL RELEVANT PARTIES.

STORMWATER LEGEND

EXISTING		PROPOSED			
SW	STORMWATER PIPE		STORMWATER PIPE		PLANTED TREATMENT SWALE
	STORMWATER MANHOLE		STORMWATER MANHOLE		RETENTION SWALE
	STORMWATER CATCHPIT		STORMWATER CATCHPIT		CONVEYANCE AND DIVERSION CHANNEL
SW	STORMWATER OUTLET		SCRUFFY DOME / GRATED INLET		
X X	SYSTEM TO BE ABANDONED		HEADWALL		
SW SW	PIPE TO BE ABANDONED		STORMWATER TREATMENT DEVICE (SWTD) (SEE NOTE 11)		
	CATCHPIT MANHOLE		RIP-RAP FLUME/CHUTE/APRON		
	OPEN CHANNEL / SWALE				

EXISTING SERVICES LEGEND:

UP	VECTOR - UNDERGROUND POWER		WATER HYDRANT
OH OH	VECTOR - OVERHEAD POWER		CHORUS TERMINAL
PP	POWER POLE		CHORUS CABINET
CP	CHORUS POLE		CHORUS POLE
W W	WATER MAIN LINE		VECTOR GAS LINE VALVE
OH(TC)	CHORUS UNDERGROUND DUCT		MANHOLE
TC TC	CHORUS OVERHEAD LINE	SIC	SPARK INTERNATIONAL CABLE, TERMINAL, CABINET, PIT AND MANHOLE
G G	VECTOR - GAS LINE, VALVE AND END CAP		EXISTING STREET LIGHT POLE
FX FX	VOCUS CABLE, MANHOLE		
VO VO	VODAFONE CABLE, MANHOLE		

PROPOSED SERVICES LEGEND:

	COMBINED SERVICE TRENCH. FOR TRENCH DETAILS REFER TO DRAWINGS 3235084-CU-2081-2088	TP	VECTOR TERMINAL POLE
X X X	UTILITY TO BE ABANDONED	SP	VECTOR SERVICE POLE
① ② ③	PROPOSED TRENCH SECTION EXTENTS FOR TRENCH DETAILS REFER TO DWGS. 3235084-2081-2088	T S	VECTOR TRANSFORMER AND SWITCH
			VECTOR 400V SERVICE PILLAR/PIT
			VECTOR 33KV SERVICE PIT
			CHORUS POLE
		V H	WATERCARE VALVE / HYDRANT
			ITS PIT / JOINT CHAMBER
			CHORUS PIT
			CHORUS MANHOLE
			VOCUS MANHOLE / PIT
		PP	POWER POLE TO BE REMOVED
			MANHOLE TO BE REMOVED

BARRIERS/RETAINING WALL

WR4 WR4	NEW WIRE ROPE BARRIER
W-S4 W-S4	NEW W-SECTION BARRIER
T-B4 T-B4	NEW THRIE-BEAM BARRIER
	NEW BARRIER TERMINAL
RTW RTW	NEW RETAINING WALL

LIGHTING LEGEND:

SL SL	NEW STREET LIGHT DUCT/CABLE, PIT AND MONTROSE BOX
	NEW STREET LIGHT POLE / NEW LUMINAIRE
	EXISTING STREET LIGHT POLE TO REMAIN
	EXISTING STREET LIGHT POLE TO BE REMOVED
M	NEW MONTROSE BOX

GENERAL LEGEND:

	PROPERTY BOUNDARY	196700	CHAINAGE
	ROAD / RAIL DESIGNATION	016-0019-B/6.5	ROUTE POSITION (RP)
		499	PROPERTY NUMBER

ORIGINAL DRAWING IN COLOUR

DETAILED DESIGN
NOT FOR CONSTRUCTION

No.	Revision	By	Chk	Appd	Date
D	FOR CONSENT	VZ	VZ	GC	14.11.22
C	FOR CONSENT	VZ	VZ	GC	12.10.22
B	DRAFT DETAILED DESIGN	OH	VZ	GC	19.01.22
A	PRELIMINARY DESIGN	TW	VZ	NL	26.03.21

Drawing Originator: Beca

Original Scale (A1)	NTS	Design	T.WU	26.03.21	Approved For Construction*
Reduced Scale (A3)	NTS	Drawn	ES, OH	26.03.21	
		Dsg Verifier	KM	10.10.22	
		Dwg Check	KM	10.10.22	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: COMBINED SERVICES PLAN NOTES AND LEGEND

Discipline: CIVIL ENGINEERING

Drawing No.: 3235084-CU-2050 Rev.: D

Document No. 3235084-CU-2050.DWG

DO NOT SCALE

IF IN DOUBT ASK.

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14 October 2022

Andria D'Souza
Senior Project Manager
Transport Services – Infrastructure Delivery
NZTA

Email: andria.dsouza@nzta.govt.nz

RE: SH16 Stage 2 (Brigham Creek Roundabout to Kumeū) Section

Tēna koe Andria,

I write on behalf of Te Kawerau ā Maki in relation to the above kaupapa. I understand you require in writing the formal position of Te Kawerau ā Maki on the project given our statutory acknowledgement over the Kumeū River. This is a requirement as part of the lodgment of the NOR.

Te Kawerau ā Maki first engaged with the project several years back through Scott Lomas (then Environment Manager). I engaged with the project from late last year including the alternative assessments recheck process. We have not undertaken a CIA for the project to date, and at this late stage in design and due to my involvement, do not intend to undertake one. Our interests and position are briefly outlined here however for clarity.

Te Kawerau ā Maki consider the area the northern part of our tribal heartland of Hikurangi (West Auckland) and a place where we hold very close relationships with our whānaunga Ngāti Whātua ō Kaipara. Our history with the area goes back to the Tūrehu, and then the various migrations including the peoples of Toi and waka such as the Tainui. Our tribal origins arose in the general area, around 1620, when the rangatira Maki stamped his mana on the land including Ngā Rau Pou ā Maki (the Waitākere Ranges) and locations between Kumeū and the Kaipara Harbour. From him came Tawhiakiterangi, and from him Te Au ō Te Whenua. Te Au ō Te Whenua made peace with Te Taou (Ngāti Whātua) at locations stretching from Muriwai to Rangitōpuni (Riverhead). He married Rangihina of Ngāti Poataniwha. Thus, Te Kawerau ā Maki heartlands cover all of West Auckland and the lands surrounding Te Wai Roa ō Kahu (Upper Harbour). The mana to these lands has always sat with Te Kawerau ā Maki. In addition are two guardian taniwha within the catchments of the Kumeū-Kaipara awa and the western catchment of Waitematā. Te Kawerau ā Maki were alienated from our lands from the late 1830s through to the 1950s through the unethical practices of the Crown. This history is acknowledge by the Crown in our 2014 Deed of Settlement. We also received redress for these historic harms including title to 3,275ha of Riverhead Forest, marae land at Hobsonville, and statutory acknowledgements over the Kumeū River, Managa Rangitōpuni and Te Wai Roa ō Kahu.

We understand the rationale for the SH16 upgrades and have fed into the process as best as our limited capacity will allow. We are not opposed to the NOR or consenting provided:

a. Our unique iwi identity and relationship is acknowledged and reflected in documentation and urban design. There are only two iwi that hold mana whenua (rather than simply interests) in the Kumeū area and that is ourselves and Ngāti Whātua ō Kaipara.
b. The waters of awa Kumeū and of Te Wai Roa ō Kahu are protected and where possible their mauri is enhanced.

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c. The whenua and indigenous flora and fauna is managed in such a way that there is a net increase to the mauri of the project footprint or immediately adjoining areas.
d. Our ongoing engagement with NZTA through the development of management plans, procurement opportunities, urban cultural design, cultural monitoring, and any other consenting is secured.

Ngā Mihi,

Edward Ashby
CEO
Te Kawerau Iwi Tiaki Trust
edward.ashby@tekawerau.iwi.nz