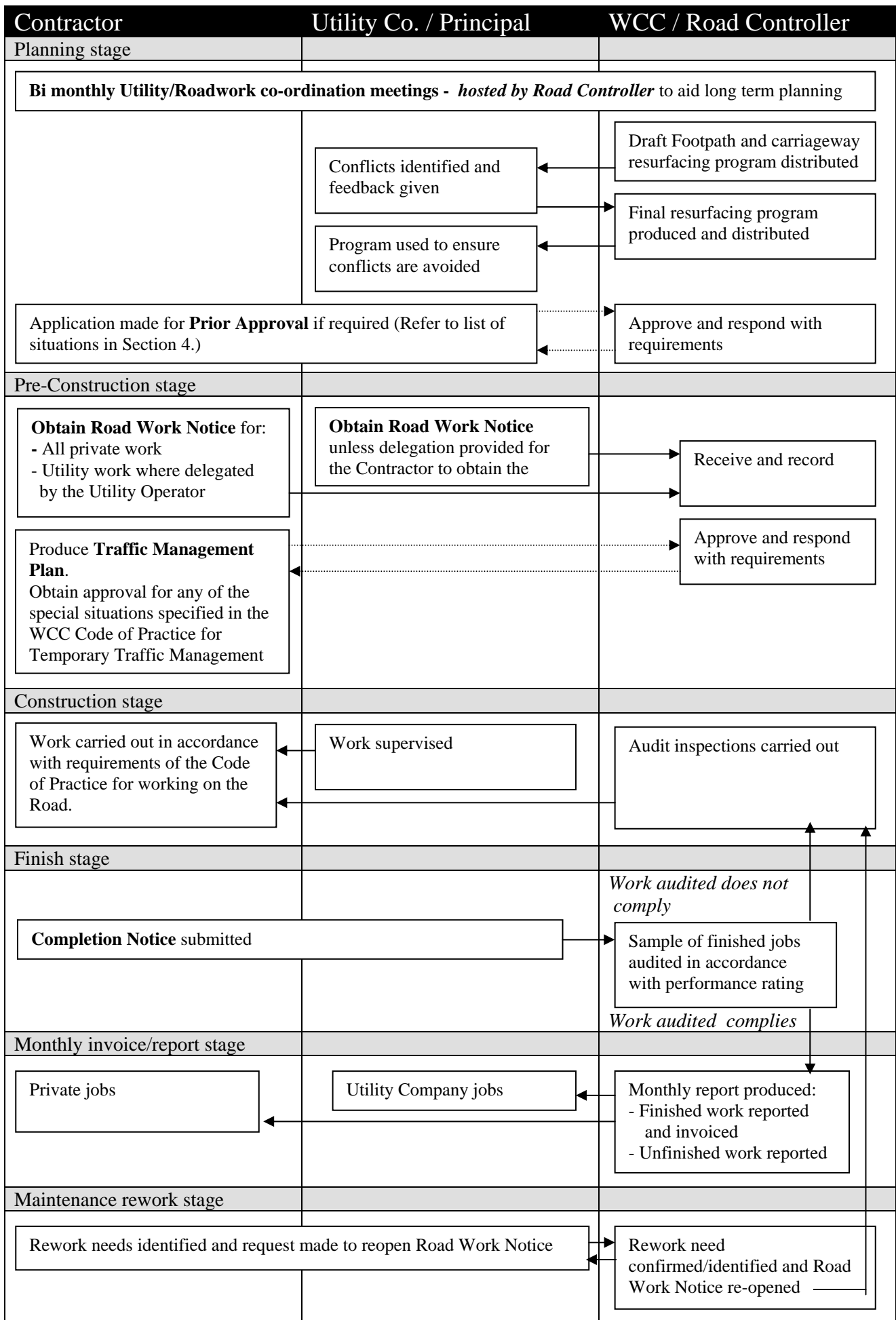


Appendix A – Road Work Interaction Process



Appendix B – Prior Approval Application Form

APPLICATION FOR PRIOR APPROVAL TO WORK ON ROAD

To: The Road Controller,
Transport Group, Infrastructure Directorate Fax (04) 801 3018
Wellington City Council
P.O. Box 2199
WELLINGTON

From: (The principal provider or their Consultant)

Utility Owner:

Date:

PRIOR APPROVAL IS SOUGHT FOR THE FOLLOWING WORK

(The plans are attached)

Aspects of the work that require prior approval are:

- A trench, or series of holes, is to extend **more than 20 m along the road**
- A traffic **lane on a Main Road needs to be closed** (Main Roads list in Appendix K)
- A **road** needs to be **closed for more than 2 minutes**
- Work is proposed **on** the carriageway of a **State Highway** (List of Roads in Appendix K)
- Work may **affect** a road structure such as a **bridge, tunnel, or retaining wall**
- A **private underground utility** is to be installed other than private connections to a utility network
- A **financial contribution is sought** for the reinstatement of the road
- Work needs to be done **outside of normal hours of work** (Normal hours given in Section 8.1)
- An **above ground structure** which requires Prior Approval is **proposed** (Outlined in Section 7.4.8)
- An **excavation under the canopy of a tree** (Refer to Section 9.1)
- A **variation** from the Code of Practice is **wanted**

COMMENTS (e.g. about above situations and when the work is intended to start and finish)

Signed, print name, contact details -

Name: Ph: Mobile:

Signed: Fax: Email:

Appendix C – Road Closure Request Form

To: The Road Controller,
Transport Group, Infrastructure Directorate ,
Wellington City Council
PO Box 2199
WELLINGTON

Fax (04) 801 3018

Road Closure Request Form

Details of proposed closure		
Address or Location of proposed work/activity:		Suburb:
Purpose of proposed work/activity <i>e.g. roadworks, street event:</i>		
Date(s) / Hours of proposed work/activity:		
Details and Special Needs of proposed work/activity i.e. how many people involved? Any parking or equipment requirements?		
Details of applicant		
First Name:	Last Name:	
Phone 1:	Phone 2:	Fax:
Postal address:		
Email:		
Signature:		Date:

To: The Property Owner / Resident / Business

PROPOSED ROAD WORKS

This is to let you know about nearby road work that will soon be carried out.

Location of work:

Description of the work:

This work is being done for:

Expected duration (Dates):

Hours of work: Normally 7.00 a.m. to 6.00 p.m. Mon to Sat.

Any parking restrictions:

Problems you may experience:

We regret any inconvenience that may be caused by this work.

If you have a problem please contact us on the telephone number below.

Contractor:

Telephone: (W). (AHrs)



ROAD WORK NOTICE

NO.

\$\$\$ A Road Work Notice fee applies to the work covered by this notice. Details of the fee are available from where these notices are obtained or from the Road Controller, ph 801 3980, fax 801 3018

This copy for the Obtainer

PROPOSED JOB DETAILS

<p>1. Location - Streetname: Along road (House Numbers): Across road (Please circle): Batter / Berm / Driveway / Footpath / Carriageway</p> <p>2. Dimensions of any excavations - Number of holes: , Total Length: (m)</p> <p>3. Description of Work:</p> <p>4. Start Date: / / Duration of Job: days / weeks (delete one)</p> <p>5. Principal (Party/Company paying for the work): Supervisor or department of Principal:</p>	<p>COMMON PRINCIPALS: Cable Car Co. CityLink Novagas Powerco Telecom TelstraClear TransNZ Vector WCC Drainage - Capacity WCC Roading WCC Street Lighting WCC Traffic Signals WCC Water - Capacity Greater WRC Water Property Owner ..(State)</p>
--	--

ACCEPTANCE BY NOTICE OBTAINER

I hereby agree to comply in full with the requirements of the 'WCC Code of Practice for Working on the Road, August 2006' together with any amendments and to keep this notice on site while work is in progress and pay the Road Work Notice fee. Failure to comply with these requirements may result in a 'Stop work' order being issued or other action by the Council necessary to remedy any problems at a full cost to the Obtainer of this notice.

Signature:, **Name** (Please print):

Role in the job: Principal / Consultant / Property Owner / Contractor (Please circle one or state other)

Company Name:

Postal Address:

Physical Address (If not Postal):

Telephone: (W) (A/Hrs)

Cellular phone: **Fax No:** **Date:** . . . / . . . / . . .

CHECK LIST

<p><input type="checkbox"/> Obtain Prior Approval for: A long trench (over 20m), Pillar/structure in Commercial area, Work in a Main Road, Work not in Normal Hours, Road to be closed, An independent private utility, Work on State Highway, A Financial contribution is wanted, Near bridge/tunnel/wall, Excavation under a tree canopy, Another variation is wanted</p> <p><input type="checkbox"/> Obtain a Road Works Notice</p> <p><input type="checkbox"/> Mark out underground Services</p> <p><input type="checkbox"/> Notify nearby (within 50m) Residents/Businesses at least 48 hrs before work starts where nuisance likely. (Refer to Code)</p> <p><input type="checkbox"/> Plan Traffic/Pedestrian measures</p> <p><input type="checkbox"/> Photograph any damage before work starts</p> <p><input type="checkbox"/> Start work (No areas are to be opened to traffic or pedestrians without a proper temporary surface)</p> <p><input type="checkbox"/> Report any damage to Water or Drainage services (Use the standard form in the Code)</p> <p><input type="checkbox"/> Finish work (and restore road markings)</p> <p><input type="checkbox"/> Send/Fax in Completion Notice to Road Controller.</p>	<p><u>Main Roads:</u> The bus routes, the principal roads that connect the suburbs, and the inner city roads between the Basin Reserve and Ngaio Gorge, Kent Terrace and The Terrace.(Refer to Code of Practice Appendix K)</p> <p><u>Normal hours of work:</u> 7.00a.m. to 6.00p.m. Monday to Saturday No work: - Sundays or Public Holidays - In a Main Road Monday to Friday between 7.00a.m. and 9.00a.m., 4.00p.m. and 6.00p.m.</p> <p>Different hours of work may be required by Council where Prior Approval is needed. Such as no work 12.00 noon - 2.00 p.m. near shops, or work only at night on a busy street.</p>
---	--

ROAD WORK NOTICE



NO.

\$\$\$ A Road Work Notice fee applies to the work covered by this notice. Details of the fee are available from where these notices are obtained or from the Road Controller, ph 801 3980, fax 801 3018

This copy for the Road Controller/This copy to remain in book

PROPOSED JOB DETAILS

1. **Location** - Streetname:
 Along road (House Numbers):
 Across road (Please circle): Batter / Berm / Driveway / Footpath / Carriageway
2. **Dimensions of any excavations** - Number of holes: , Total Length: (m)
3. **Description of Work:**

4. **Start Date:** / / **Duration of Job:** days / weeks (delete one)
5. **Principal** (Party/Company paying for the work):
 Supervisor or department of Principal:

- COMMON PRINCIPALS:**
- Cable Car Co.
 - CityLink
 - Novagas
 - Powerco
 - Telecom
 - TelstraClear
 - TransitNZ
 - Vector
 - WCC Drainage - Capacity
 - WCC Roading
 - WCC Street Lighting
 - WCC Traffic Signals
 - WCC Water - Capacity
 - Greater WRC Water
 - Property Owner ..(State)

ACCEPTANCE BY NOTICE OBTAINER

I hereby agree to comply in full with the requirements of the 'WCC Code of Practice for Working on the Road, August 2006' together with any amendments and to keep this notice on site while work is in progress and pay the Road Work Notice fee. Failure to comply with these requirements may result in a 'Stop work' order being issued or other action by the Council necessary to remedy any problems at a full cost to the Obtainer of this notice.

Signature: , **Name** (Please print):

Role in the job: Principal / Consultant / Property Owner / Contractor (Please circle one or state other)

Company Name:

Postal Address:

Physical Address (If not Postal):

Telephone: (W) (A/Hrs)

Cellular phone: **Fax No:** **Date:** . . . / . . . / . . .

ROAD CONTROLLER COMMENTS

Notice On Time? Y / N If N explain:

Information OK? Y / N If N explain:

Finish Inspection/s Covers: ALL / PART / NONE

Area of asphalt in chipseal road (For texturising contribution): (m²)

Road marking still required: Urgent (m), Non-urgent (m)

Comments:

Officer: Date: . . . / . . . / . . .



COMPLETION NOTICE

To: **The Road Controller, Transport Group, Infrastructure Directorate** NO.
Wellington City Council
P.O. Box 2199, WELLINGTON **OR FAX TO (04) 801 3018**

This sheet for the Obtainer

PROPOSED JOB DETAILS

- 1. **Location** - Streetname:
 Along road (House Numbers):
 Across road (Please circle): Batter / Berm / Driveway / Footpath / Carriageway
- 2. **Dimensions of any excavations** - Number of holes:, Total Length: (m)
- 3. **Description of Work:**

- 4. **Start Date:** / / **Duration of Job:** days / weeks (delete one)
- 5. **Principal** (Party/Company paying for the work):
 Supervisor or department of Principal:

- COMMON PRINCIPALS:**
- Cable Car Co.
 - CityLink
 - Novagas
 - Powerco
 - Telecom
 - TelstraClear
 - TransitNZ
 - Vector
 - WCC Drainage - Capacity
 - WCC Roading
 - WCC Street Lighting
 - WCC Traffic Signals
 - WCC Water - Capacity
 - Greater WRC Water
 - Property Owner ..(State)

ACCEPTANCE BY NOTICE OBTAINER

I hereby agree to comply in full with the requirements of the ‘WCC Code of Practice for Working on the Road, August 2006’ together with any amendments and to keep this notice on site while work is in progress and pay the Road Work Notice fee. Failure to comply with these requirements may result in a ‘Stop work’ order being issued or other action by the Council necessary to remedy any problems at a full cost to the Obtainer of this notice.

Signature: **Name** (Please print):

Role in the job: Principal / Consultant / Property Owner / Contractor (Please circle one or state other)

Company Name:

Postal Address:

Physical Address (If not Postal):

Telephone: (W) (A/Hrs)

Cellular phone: **Fax No:** **Date:** / /

COMPLETION DETAILS (Actual location of work carried out)

Location along Street for each Hole/trench (e.g. House Nos.)	Across the Street (Tick box/es)				Length of work or hole (Metres)
	Berm /Batter	Driveway	Footpath	Carriageway	

(Please attach any more details on a separate sheet)

Total asphalt area in chip seal road for Texturising fee: m²

Details completed by: **on:** / /

Appendix H - Utility damage report form

To: The Road Controller,
Transport Group, Infrastructure Directorate,
Wellington City Council,
P.O. Box 2199,
WELLINGTON.

Fax No.(04) 801 3018

Report on damage to water or drain pipe

Please find below details about a damaged pipe.

Street name:

Utility damaged:

Owner of the Utility:

Location of the damage:

Date when damaged: . . . / . . . / . . .

Date damage identified: . . . / . . . / . . .

Date when repaired: . . . / . . . / . . .

Repairs carried out by:

Road Work Notice number:

(For the road work that was being carried out when damage occurred)

Any other comment
.
.

Reported by: on: / /

Appendix I Scala Penetrometer Test Results Form

Streetname:

Depth (mm)	Location along and across road:				
0					
50					
100					
150					
200					
250					
300					
350					
400					
450					
500					
550					
600					
650					
700					
750					
800					
850					
900					
950					
1000					
1050					
1100					
1150					
1200					
1250					
1300					
1350					
1400					
1450					
1500					

Recorded by: Date: / /

Appendix K- Main Roads

Main roads are the more busy roads of Wellington on which there are restricted hours of work (Section 8.1) and Prior Approval requirements (Section 4.). They comprising the principal roads that connect the suburbs and connect the suburbs to the city. They also include many central city streets which get busy during peak traffic times. Streets which are part of the Transit New Zealand State Highway Route from The Terrace tunnel to the Airport are also identified by (**State Highway**). Streets which are part of the Over height route are identified in *bold italics*.

Abel Smith St	Glasgow St	Onslow Rd
Adelaide Rd	Glenmore St	<i>Oriental Pde</i>
<i>Aotea Quay</i>	Grafton Rd	<i>Ottawa Rd</i>
Aro St	Grant Rd	Palliser Rd
Barnard St	Grey St	Panama St
Bassett Rd	Grosvenor Tce	Park St
Bay Rd	Hankey St	Paterson St (State Highway)
Bidwell St	Harriett St	Perth St
Birdwood St	Harris St	Raroa Cres
Blackbridge Rd	Hataitai Rd	Raroa Rd
Boulcott St	Hawker St	Riddiford St
Bowen St	Hawkestone St	Rintoul St
<i>Box Hill</i>	Helston Rd	Rongotai Rd
Bracken Rd	Hunter St	Ruahine St (State Highway)
Brandon St	<i>Hutt Rd</i>	Rugby St (State Highway)
Britomart St	<i>Jervois Quay</i>	Salamanca Rd
Broadway	John St	Station Rd
Broderick Rd	Johnsonville Rd	Stout St
Brooklyn Rd	Johnston St	Sussex St (State Highway)
Brougham St	<i>Kaiwharawhara Rd</i>	Takapu Rd
Buckle St (State Highway)	Karori Rd	Tasman St
Buller St	Kelburn Pde	Taranaki St (State Highway)
<i>Bunny St</i>	Kent Tce (State Highway)	Taurima St (State Highway)
<i>Burma Rd</i>	<i>Kenya St</i>	The Crescent
<i>Cable St</i>	<i>Khandallah Rd</i>	The Parade
Calabar (State Highway)	Kilbirnie Cres	The Rigi
Cambridge Tce	Kupe St	The Terrace
Carlton Gore Rd	Lambton Quay	<i>Thorndon Quay</i>
Cashmere Ave	Lennel Rd	Tinakori Rd
Centennial Highway	Luxford St	Troy St
Chaffers St	MacDonald Cres	Tory St
Chaytor St	Maidavale Rd	Upland Rd
Childers Tce	<i>Main Rd</i>	<i>Victoria St</i>
Churchill Dr	Majoribanks St	Vivian St (State Highway)
Cobham Dr (State Highway)	Manners St	Wadestown Rd
<i>Cockayne Rd</i>	Mein St	Waikowhai St
Constable St	<i>Mercer St</i>	<i>Wakefield St</i>
Courtenay Pl	<i>Middleton Rd</i>	Wallace St
Crawford Rd	Miramar Ave	Waring Taylor St
<i>Crofton Rd</i>	Molesworth St	<i>Waterloo Quay</i>
Cuba St	<i>Moorefield Rd</i>	Webb St
Curtis St	Moxham Ave	Wellington Rd (State Highway)
<i>Customhouse Quay</i>	Mulgrave St	Whitehead Rd
Dixon St	Murphy St	Whitmore St
Dufferin St (State Highway)	Newlands Rd	<i>Willeston St</i>
Ellice St (State Highway)	<i>Ngaio Gorge Rd</i>	<i>Willis St</i>
<i>Evans Bay Pde</i>	Northland Rd	<i>Willowbank Rd</i>
Featherston St	Ohiro Rd	Wilton Rd
Garden Rd	Old Karori Rd	
Ghuznee St (State Highway)	Onepu Rd	

Appendix L - Heritage And Notable Trees

HERITAGE AND NOTABLE TREES

Street	Number of nearby house	Common name
Abel Smith Street	108	Northern Rata
Abel Smith Street	131-135	Bull Bay Magnolia
Abel Smith Street	140	Tasmanian Blue Gum
Abel Smith Street	144B	English Elm
Abel Smith Street	150	Lombardy Poplar
Abel Smith Street	151	Lillypilly
Adelaide Road	300	Radiata Pine
Aparima Avenue	26	Pohutukawa
Ascot Street	24-24A	Cabbage Tree
Ascot Street	24-24A	Scarlet Oak
Baden Road	2	Norfolk Island Pine
Bay Road		Pohutukawa
Boscobel Lane	1	Norfolk Island Pine
Boscobel Lane	1	Macrocarpa, "the Bucket Tree"
Braithwaite Street	6	Black Beech
Braithwaite Street	8	Monkey Puzzle
Braithwaite Street	8	Hard Beech
Britomart Street	84-84A	Pohutukawa
Broadway	411	Norfolk Island Pine
Brougham Street	46	Norfolk Island Pine
Burnell Avenue	23	Horse Chestnut
Box Hill	3	Norfolk Island Pine
Box Hill	60	Kauri
Chelmsford Street	6	Pohutukawa
Childers Terrace	1	Norfolk Island Pine
Childers Terrace	1	Norfolk Island Pine
Clifton Terrace and San Sebastian	Corner	Tulip Tree
Clyde Street and Avon Street	Corner	Norfolk Island Pine
Collingwood Street	4	Northern Rata
Columbo Street	27	Pohutukawa
Cooper Street	13	Cabbage Tree
Coromandel Street	125	Red Flowering Gum
Coromandel Street	125	European Beech
Coromandel Street	127	Northern Rata
Corunna Avenue	5	Black Beech
Donald Crescent	22	Holly
Duncan Terrace		English Elm
Duncan Terrace		English Elm
Duthie Street	8	Northern Rata
Fairview Crescent	9	Macrocarpa
Fairview Crescent	30	Norfolk Island Pine
Falkirk Avenue	43	Macrocarpa
Finnimore Terrace	12	Norfolk Island Pine
Fitzroy Street	9	Bunya Bunya
Fitzroy Street	9	Hoop Pine

Appendix L (Heritage and notable trees) continued:-

Street	Number of nearby house	Common name
Glenmore Street	137	Douglas Fir
Grafton Road	127-145A	Radiata Pine
Grafton Road	127-145A	Radiata Pine
Grafton Road	127-145a	Radiata Pine
Grafton Road	127-145A	Radiata Pine
Grant Road	53	European Beech
Hadfield Terrace	3	Lawsons Cypress
Hadfield Terrace	5	Lawson Cypress
Hanson Street	180A	Pohutukawa
Harbour View Road	24	Pohutukawa
Harbour View Road	30	Pohutukawa
Hataitai Road	97	Pohutukawa
Hataitai Road	97	Pohutukawa
Hataitai Road	97	Pohutukawa
Hataitai Road	147	Norfolk Island Pine
Hatton Street	24	Macrocarpa tree
Hatton Street	26	Macrocarpa Tree
Hawker Street	49	Pohutukawa
Hawkestone Street		Pohutukawa
Hawkestone Street		English Elm
Hawkestone Street		Norfolk Island Pine
Hobson Crescent	35	Red Flowering Gum
Hobson Street	53	Karaka
Hobson Street	53	Sycamore Tree
Hobson Street	53	Sycamore Tree
Holloway Road and Aro Street	Corner	Pohutukawa
Holloway Road and Aro Street	Corner	Pohutukawa
Holloway Road and Aro Street	Corner	Pohutukawa
Homewood Avenue	10	Kahikatea
Homewood Avenue	10	Kahikatea
Homewood Avenue	12	Matai
Homewood Avenue	12	Kahikatea
Homewood Avenue	12	Kahikatea
Homewood Avenue	12	Kahikatea
Homewood Avenue	64	Totara
Inverlochy Place	3	Norfolk Island Pine
Inverlochy Place	3	London Plane
Inverlochy Place	4	Puriri
Kainui Road	56	Cabbage Tree
Kainui Road	56	Cabbage Tree
Karaka Bay Road	331	Norfolk Island Pine
Karaka Bay Road	465	Karaka
Karaka Bay Road	465	Karaka
Karaka Bay Road	465	Karaka
Karaka Bay Road	465	Karaka
Karori Road	430	European Silver Fir
Kensington Street		Pohutukawa
Larsen Crescent	6 106	Matai

Appendix L (Heritage and notable trees) continued:-

Appendix L (Heritage and notable trees) continued:-

Street	Number of nearby house	Common name
Larsen Crescent	4 104	Totara
Lincoln Avenue	17	Narrow-Leaved Ash
Ludlam Street	17	Pohutukawa
Manley Terrace	9	Rose She-Oak
Marjoribanks Street	78	Pohutukawa
Marjoribanks Street	78	Kermadec Pohutukawa
Marioribanks Street	78	Pohutukawa
Matai Road	58	Red Flowering Gum
Maupuia Road	Opposite 48	Belah
Melbourne Road	22	English Oak
Melbourne Road	22	English Oak
Moxham Avenue	67	European Beech
Moxham Avenue	69	Coral Tree
Moxham Avenue	69	Karaka
Moxham Avenue		Pohutukawa
Moxham Avenue	69	Bull Bay Magnolia
Moxham Avenue	69	Nikau
Moxham Avenue	77	European Beech
Moxham Avenue	176	Pohutukawa
Museum Street		English Oak
Newman Terrace	26	European Ash
Newtown Park		Pohutukawa
Newtown Park		Pohutukawa
Norfolk Street	Opposite 10	Norfolk Island Pine
Orangi Kaupapa Road (Glenmore)		English Oak
Oriental Parade		Norfolk Island Pines
Old Karori Road	62-64	Radiata Pine
Ottawa Road	30	Swamp Cypress
Oxford Street (Tawa Primary)		Oak Tree
Oxford Street & Oxford Street	14	Camellia Trees
Papawai Tce	3	English Elm
Patanga Crescent	31	Pohutukawa
Paterson and Dufferin Street	Corner of	English Elm
Percival Street	Dead end of	London Plane
Plimmer Steps		English Oak
Raroa Road	7	Black Beech
Raroa Road	170	Radiata Pine
Rata & Kainui	Corner of	Douglas Fir
Rata Road	45	English Oak
Roxburgh Street	20	Olive
Sar Street	76	Norfolk Island Pine
Sar Street	76	Norfolk Island Pine
Severn Street	1	Pohutukawa
Scarborough Terrace	2	Pohutukawa
Scarborough Terrace	2	Pohutukawa
Scarborough Terrace	2	Pohutukawa
Sydney Street West	194A	Magnolia

Appendix L (Heritage and notable trees) continued:-

Street	Number of nearby house	Common name
Taranaki Street	75	Pohutukawa
Taranaki Street	75	Pohutukawa
The Terrace	88	Pohutukawa
The Terrace	234	South African Cabbage Tree
The Terrace	255	Norfolk Island Pine
The Terrace	324	Totara
The Terrace	324	Northern Rata
The Terrace	326	2 Elm Trees
Tinakori Road	260	Horse Chestnut
Tinakori Road	260	Common Lime
Tio Tio Road	5	Macrocarpa
Tory Street	133	Kowhai
Trelissick Crescent	126	Puriri
Wadestown Road	1a	Pink Tulip Tree
Wadestown Road	109	Radiata Pine
Wadestown Road	109	Norfolk Island Pine
Waipapa Road		Cork Oak
Waipapa Road		Holm Oak
Wallace Street	63	Belah
Washington Avenue	10	Cabbage Tree
Webb Street	99	Bull Bay Magnolia
Weld Street	50	Macrocarpa
Wellington Road	4	Pohutukawa
Whitmore Street and Waterloo	Corner of	Pohutukawa
Whitmore Street and Waterloo	Corner of	Pohutukawa
Whitmore Street and Waterloo	Corner of	Pohutukawa
Willis Street	335	English Oak
Willis Street	335	English Oak
Willis Street	335	English Oak

Appendix M – Separation Distances Between Utilities

Separation distances from power cables, gas mains, stormwater, sewage, and water supply pipes

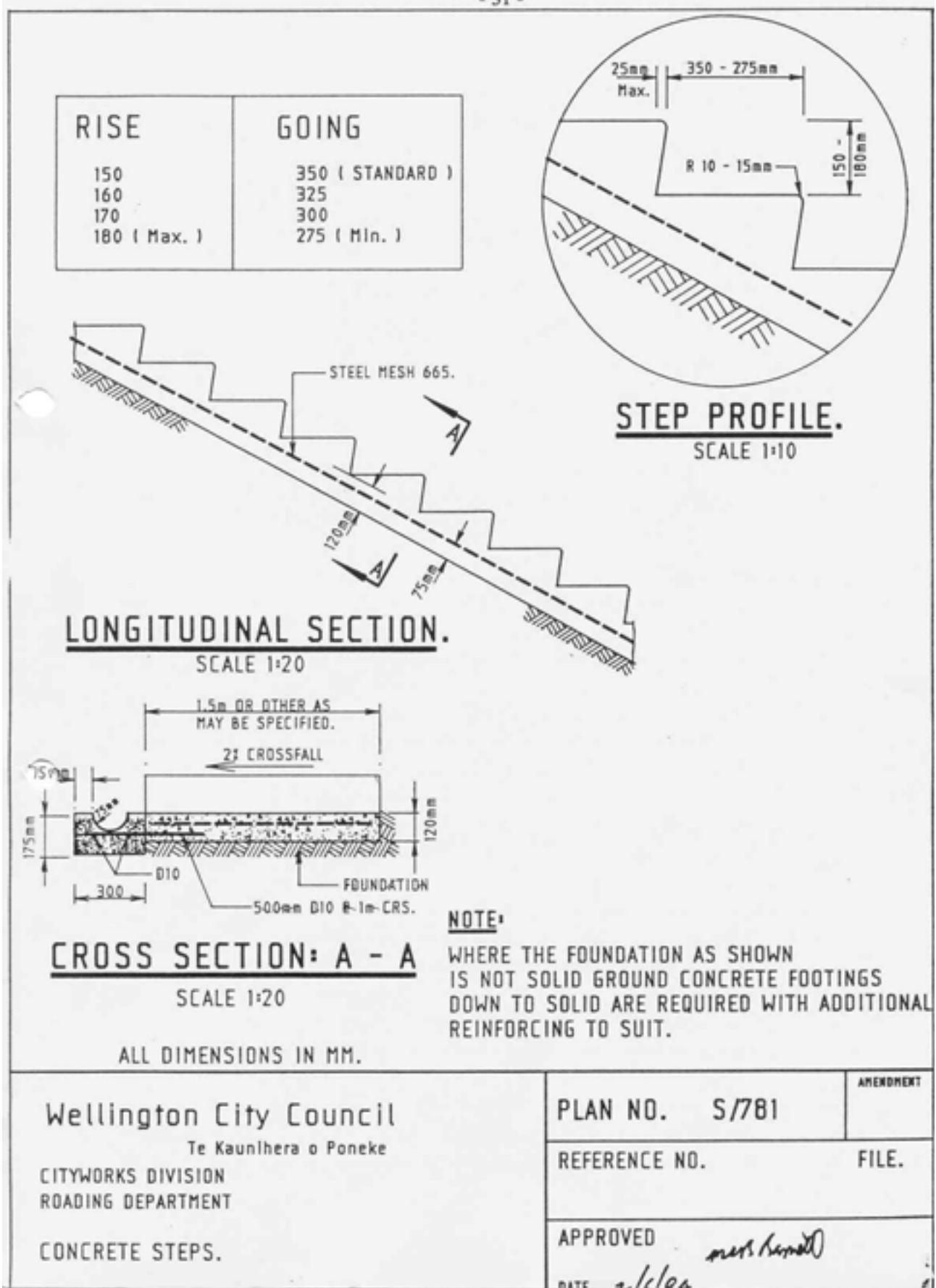
All utilities (mains and service connections) must be laid either parallel or at right angles to the road centreline wherever possible.

Where a utility crosses over or under another utility it should cross over at 90° if possible but never at an angle less than 30°.

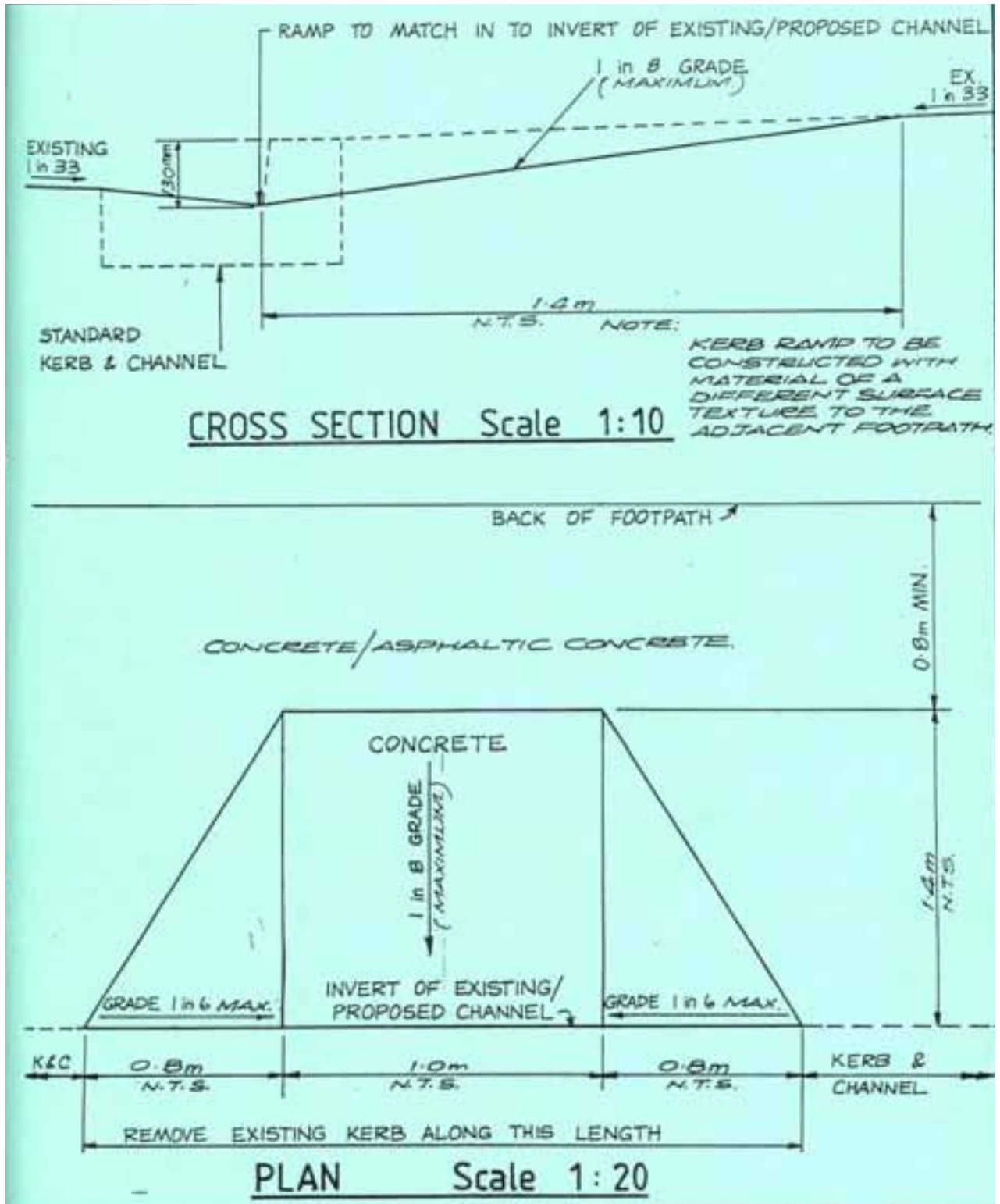
Utilities must only be laid in a manner that reasonably respects the separation requirements of other utility owners. Some of these are summarised in the table below.


Utility		Normal open cut trenching		Thrusting or boring operations	
		Horizontally between parallel utilities (mm)	Vertically where utilities cross over (mm)	Horizontally between parallel utilities (mm)	Vertically where utilities cross over (mm)
UnitedNetworks (Vector) Power Cables	400V cables	400	400	Not allowed	Not allowed
	11kV cables	500	500	Not allowed	Not allowed
	33kV cables	1000	By agreement	Not allowed	Not allowed
Powerco Ltd - Gas	Service connections	150	Subject to adequate protection	On request	On request
	Low-medium pressure mains (7-400kPa)	150	Subject to adequate protection	On request	On request
	Medium-high pressure mains (400-700kPa)	300	Subject to adequate protection	On request	On request
	High pressure mains (>700kPa)	300	Subject to adequate protection	On request	On request
WCC Sewer & Stormwater pipes	Service connections	400	75	400	200 above pipe, 300 below pipe
	Mains	1000	300 above pipe, 500 below pipe	1000	300 above pipe, 500 below pipe
WCC Water pipes	<100mm I.Dia. pipes	300	300	750	On request refer also to Section 7.5.1
	101 – 200mm I.Dia. pipes	300	300	1000	On request
	201 – 400mm I.Dia. pipes	350	300	1000	On request
	>400mm I.Dia. pipes	By agreement e.g. 800mm	300	1000	On request

Appendix N - Concrete Steps



Appendix O – Pedestrian Ramp



<p>Wellington City Council Te Kaunihera o Poneke</p> <p>ROADWORKS DIVISION TRAFFIC ENGINEERING DEPARTMENT</p> <p>PEDESTRIAN RAMP FOR CONSTRUCTION WORK.</p>		<p>PLAN NO. S/760</p>	<p>AMENDMENT</p>
		<p>REFERENCE NO.</p>	<p>FILE.</p>
		<p>APPROVED <i>[Signature]</i></p> <p>DATE 3/6/92</p>	

Appendix P – Exposed Aggregate Edges to Service Covers/Other areas

Exposed Aggregate Edges to Service Covers/Other areas

This process is provided as an indication only of how an exposed aggregate surface can be achieved. The Contractor is responsible to ensure the materials and methods used achieve a durable and visually acceptable product.

The Mixture

Objective – To Achieve 120 mm slump 20 Mpa strength concrete (at 28 days) with the large aggregate component comprising Mix 14-5mm river rounds (alternatively 13mm river rounds); Rangitikei (grey, some brown, some shell) **OR** Otaki (basically grey). Concrete to be mixed and placed in accordance with NZS 3109:1997.

Suggested proportions

- 1 part cement
- 1 part clean washed concrete sand
- 2 parts round river stone (Available from Winstone's in Belmont, Lower Hutt (alternatively try Firths). River rounds to be mixed thoroughly through the mixture

The Installation

- 1) Pour and trowel to appropriate level. Avoid heavy troweling.
- 2) Within 2 hours - Spray on Ruggersol (Retarding agent).

The Finish

- 1) On following day but within 24 hours - Waterblast using a light water blaster at 12-1500psi as necessary to remove surface cement layer and to achieve the appropriate level of exposure.
- 2) Within the following 3 days - Wash surface lightly with concrete acid (diluted hydrochloric) to clean exposed aggregate of cement deposits.
- 3) Wash immediately with copious water and seal with transparent concrete sealer (Sika product or similar). *Available from most reputable hardware stores.*

This page for notes –