

## James Gribble

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**From:** Philip Morrison <Philip.Morrison@beca.com>  
**Sent:** Tuesday, 27 November 2018 8:19 a.m.  
**To:** Derek Walsh  
**Subject:** Accepted: Bus Hub Pre-Shutdown Site Walkover



**From:** Philip Morrison  
**To:** "SUTHERLAND, Alex"; REID, Peter; "xxxxxx.xxxxxxxxxx@xxxxxxxxxxx.xxx"  
**Cc:** Derek Walsh; James Taylor  
**Subject:** Bus Hub - Any other work during shutdown  
**Date:** Tuesday, 27 November 2018 1:57:45 p.m.  
**Attachments:** [image007.png](#)  
[image008.png](#)  
[image009.png](#)  
[image010.png](#)

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Hi Alex, Pete, Marcus,

Something for you to give some thought to:

Are there ANY items of site work that could be done during the shutdown period prior to Christmas?

Would have to pass all the following tests:

- Work to occur outside of retailers' business hours
- No fencing off of pedestrian or carriageway areas during business hours (over and above what will be in place for the shutdown)
- Work to be fully compliant with Site Specific Safety Management Plans and Traffic Management Plans

Anything that you can tick off that you'd otherwise have to do in the new year.

Let's know your thoughts.

**Philip Morrison**

Engineering Technologist

Beca

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021 646 709

**From:** [Philip Morrison](#)  
**To:** [Derek Walsh](#)  
**Cc:** [James Taylor](#); [Murray Fletcher](#)  
**Subject:** Bus Hub - Cost to Complete as at 21.11.2018  
**Date:** Wednesday, 21 November 2018 6:06:54 p.m.  
**Attachments:** [image007.png](#)  
[image008.png](#)  
[image009.png](#)  
[image010.png](#)  
[Cost to Complete DRAFT 20181121.xlsx](#)

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Hi Derek,

Attached is a Cost to Complete spreadsheet as at 21.11.2018 (FH's Claim 4).

This is draft only – I'd like James to run his eye over it to make sure all is captured correctly.

All forecast or unclaimed variations are subject to Engineer's approval. As discussed earlier, there are some reasonably significant amounts that FH are forecasting that I believe will require a great deal of justification from them. (i.e. a forecast of \$300k for hydravac excavation due to unexpected services). I've highlighted some of these orange on the spreadsheet.

Trust this is useful. Please let me know if you need anything further.

Cheers,

**Philip Morrison**

Engineering Technologist

Beca

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<b>Bus Hub PTC 2018/1 Cost to Complete Forecast</b>	
Prepared Date	21.11.2018
Prepared By (Beca)	Philip Morrison

**DRAFT ONLY**

### Summary

1 Contract Price	\$ 4,382,815.36
2 Variations Claimed	\$ [REDACTED]
3 Variations Forecast / Unclaimed	\$ [REDACTED]
4 DCC Watermain Variations Claimed	\$ [REDACTED]
5 DCC Watermain Variations Forecast / Unclaimed	\$ [REDACTED]
6 Less Scheduled Provisional Items not expected to be claimed	-\$ [REDACTED]
<b>Forecast Completion Cost</b>	<b>\$ [REDACTED]</b>

### Key for Forecast Variations:

\$ 1,234.00 Estimate provided by Contr

\$ 1,234.00 Estimate provided by Beca

**Note:** All forecast/unclaimed variations are subject to assessment and approval by the Engineer.

<b>Variations Claimed (As at 21.11.2018)</b>		<b>\$</b>
V01	Single Bus Shelter J concrete foundation reinforcing detail. Repricing after receiving revised construction drawings as the tender drawing showed very little detail.	\$ 2,077.01
V03	Survey information Change #1 - Kerb line set out as per information provided however this kerb line/height was changed without being informed.	\$ 698.25
V04	Survey Information Change #2 - Police Station Entranceway, resurvey of kerb line, recutting of kerb line, re excavation and placement of kerb basing material.	\$ 1,741.35
V05	Footpath Excavation - Large/thick concrete slab @ Gym	\$ 2,005.08



V06	VPR # 3 - Footpath Excavation - Additional gravel required to cover soft subgrade material (Email instruction received to increase the depth from 100mm to 150mm) East Side - 62.34m <sup>3</sup> + East Side - m <sup>3</sup> = Total m <sup>3</sup>	\$ 4,060.52
V07	Mudtanks Syphons - Tender pricing was based on the tender drawings which do not reflect the current DCC Standard. Syphons and cleaning eyes have been added to each lateral that has been installed.	\$ 16,845.24
V08	Mudtanks - Excavation and saw cutting. Additional concrete and depth is far greater than assumed at tender time. The assumed depth was 250mm for half the lane width, reality onsite is average depth of 350mm and across the full lane width which has required additional saw cutting at depth, additional dump fees and excavation time.	\$ 12,406.20
V11	Lighting Pole Removal Police Station Side of the road - Assumed at tender that these lighting poles would have been firmly compacted around as are other lighting poles in Dunedin however they have large concrete bases around them. Addition resources and concrete cutting required to remove them.	\$ 5,404.30
V13	Footpath Excavation - Large/thick concrete slab @ Countdown Carpark (Police Station side)	\$ 1,206.78
V14	Footpath Excavation - Large/thick concrete slab @ Countdown Carpark (Terminus Building side)	\$ 2,727.20
V16	Kerb & Channel Undercutting of soft subgrade.	\$ 681.38

V22	Double Bus Shelter I concrete foundation reinforcing detail. Repricing after receiving revised construction drawings as the tender drawing showed very little detail.	\$ 3,448.45
V27	Double Bus Shelter J concrete foundation detail has changed to a piled floating foundation detail because of existing services in the ground are in conflict plus additional depth concrete pile to accommodate a change to get around the Chorus pit.	\$ 3,448.45
V35	Bollard type change from Self Righting/Item 8.2.8 to Non Self Righting ones plus a quantity increase from 1 to 5 @ \$4,662.81 ea = \$23,314.31	\$ 9,325.62
V39	Concrete infill between new kerb and the existing concrete under road concrete slab @ the St Andrews / Great King Street Intersection.	\$ 29,571.50
V42	Bus Shelter I & J - survey of the true boundary line, cut of the necessary width of nib wall, retrim the back edge of the shelter foundation boundary line.	\$ 7,014.23
V44	Moray Place - Man Hole has been covered over with asphalt which is in line with the new kerb position.	\$ 16,162.40
V45	Moray Place - Old Tram line encased in concrete is in the direct line/position of the new kerb position.	\$ 1,653.06
V51	Relocate the DCC Water Meter connection @ Bus Shelter F	\$ 1,643.28
V54	Moray Place Traffic Signals - Repositioning of the traffic signals due to survey data/plans not lining up.	\$ 737.95
V55	Farmers Building section of the footpath - Large thick concrete slabs have been under covered under the asphalt surface (4x2.5x350, 3x2.5x320 + 4.3x2.5x380)	\$ 3,035.90
V59	VPR #2 - Additional work required for the catchpit relocation at Community House.	\$ 3,488.94
V60	VPR #4 - Footpath removal and replacement @ the Refined Rig corner.	\$ 7,094.29
V61	VPR #5 - Additional work required to install the traffic signals according to the alternative methodology put forward,	\$ 9,368.92
	<b>SUBTOTAL: Variations Claimed</b>	<b>\$ 145,846.28</b>

<b>Variations Forecast / Unclaimed</b>		<b>\$</b>
V02	Traffic Signal Ducting/Pole Installation - Day works? Or LS as per spread sheet to be provided.	\$ 20,000.00
V09	Archaeological stand down/waiting crew time	\$ 2,500.00

V11	Lighting Pole Removal Police Station Side of the road - Assumed at tender that these lighting poles would have been firmly compacted around as are other lighting poles in Dunedin however they have large concrete bases around them. Addition resources and concrete cutting required to remove them. ASSUME SAME ISSUE POSSIBLE ON WEST SIDE OF GT KING	\$ 5,500.00
V12	Power/Communication ducting outside of tender work area (Terminus Building to Bus Stop K, Moray Place. Plan 3810322-CE-1201 Rev1 shows no requirement for work however Plan 3810322-CE-1201 Rev 1/Reissued Plans shows the requirement for additional power/communication ducting's plus two pits. This will require asphalt reinstatement of the footpath and the concrete crossing into the Count Down carpark.)	\$ 5,000.00
V15	Exeloo / Bike Park Area which was not included in tender schedule (nib wall construction & fence construction)	\$ 25,000.00
V18	Ducting - Excessive existing service are in the ground that required additional resources and hydrovac unit to get new services into place.	\$ 300,000.00
V23	Double Bus Shelter @ Exeloo location, concrete foundation reinforcing detail. Repricing after receiving revised construction drawings as the tender drawing showed very little detail.	\$ 5,000.00
V28	Additional cost to supply and lay 100mm Ducting including joints, bends and Y's for Low voltage and Comms cables on east side of the street	\$ 3,000.00
V34	Aotea coordination and supervision to cover Items 5.15 + 5.16	\$ 2,000.00
V35	Bollard type change from Self Righting/Item 8.2.8 to Non Self Righting ones plus a quantity increase from 1 to 5 @ \$4,662.81 ea = \$23,314.31	\$ 13,988.43
V37	Countdown Vehicle Access - Work around ORC approval to provide a two way temporary access while the entrance way is reconstructed plus undertake the required work to extend the garden plot and provide an extra parking area.	\$ 5,000.00
V40	Concrete infill between new kerb and the existing concrete under road concrete slab @ the Moray Place / Great King Street Intersection.	\$ 18,000.00
V41	Spark coordination and supervision.	\$ 1,000.00
V43	Cutting Pavers around the Traffic Signal access pits, not detailed or an item for this type of work. Claim the Lm cutting rate	\$ 500.00
V46	Double Bus Shelter C @ ch80, concrete foundation detail.	\$ 5,000.00
V47	Double Bus Shelter C @ ch65, concrete foundation detail has changed to a pile design plus it needed additional pile excavation depth so that adjustments could be made to the reinforcing steel layout due to a Chorus Pit.	\$ 5,000.00

V48	Double Cantilevered Bus Shelter B concrete foundation detail has changed to a piled floating foundation detail because of existing services in the ground are in conflict.	\$ 6,000.00
V49	Vegetation Trimming of the trees/shrubs along the Count Down Carpark to allow for the erection of the Bus Shelters	\$ 1,000.00
V50	Syka Services Lids, remove the new lids and frames, replace the frames with channel frames plus modify the concrete surrounds to allow for the new frames plus slight orientation as required to line up with the pavers. KB Contractors to undertake.	\$ 13,000.00
V52	Moray Place Bus Stop K - Supply 2 x normal lids for the comms and power Lids (Not paver infill lids)	\$ 400.00
V53	Moray Place Trenching from Terminus Building to Bus Stop K - Large chunks of concrete in the footpath (26.4x.500 + 4.2x.500)	\$ 12,817.00
V58	VPR #1 - Additional milling required to obtain the intersection finished design levels and keying into the kerbs, this will require milling into concrete.	\$ 40,000.00
	VPR #1 - Additional depth of Asphalt over the Intersection Mill and Fill Areas, required Depth has changed from 30mm to 50mm.	\$ 55,000.00
V62	Process and apply for the Services Connection Consent for the Exeloo and Kiosk.	\$ 500.00
V63	Stormwater lateral from the Farmers building requires lowering or incasement in concrete.	\$ 1,500.00
V69	<del>Lighting Pole Removal Farmers Side - Assumed at tender that these lighting poles would have been firmly compacted around as are other lighting poles in Dunedin however they have large concrete bases around them. Addition resources and concrete cutting required.</del>	\$ 4,000.00
V70	Traffic Light Signal Brand Change- As per Email 17/10/2018, additional extra over costs to Items 6.1, 6.2, 6.46 & 6.47	\$ 5,000.00
V71	St Andrews Street / Great King Street Kerb Pedestrian Crossings - Shown on the plans but not included within the schedule.	\$ 2,500.00
V72	Exeloo additional Costs for its Upgrade (Items 4.3.1 & 4.3.2 = \$150,000 - \$178,350.00 = Short Fall of \$28,350.00)	\$ 28,350.00
V73	<del>Future Wood Fence Costs (Retaining wall @ \$10,017.47 + Fence Supply @ \$5,500.00 + Install @ \$4,258.00 = \$20,175.47 - Scheduled Item 1.3.3 @ \$2,500.00 = Short Fall of \$25,675.47)</del>	\$ 28,175.47
V74	<del>Schedule Item 1.3.3 @ \$2,500.00 - Short Fall of \$25,675.47</del>	\$ 10,000.00
V75	<del>Life marking - not asked for nor included in Item 1.7.1 Scheduled Rates is the Green Cycleway Blocks although they are shown on the plans</del>	\$ 7,000.00
V76	<del>Moray Place - Box up for and pour a concrete slab for the Post Box that had to be removed for footpath construction. (not allowed for survey information) adjustments to allow the kerb line to be moved out into the road at Bus Stop C (bus foundations were going to be in the Farmers carpark if things weren't moved)</del>	\$ 500.00
V77	<del>Survey information) adjustments to allow the kerb line to be moved out into the road at Bus Stop C (bus foundations were going to be in the Farmers carpark if things weren't moved)</del>	\$ 1,500.00
V79	Chorus Ducting - Full length of the street	\$ 7,000.00
V80	Pavement - Concrete base. Over and above items scheduled for pavement	\$ 401,837.69
V82	Moray Place Intersection - Asphalt Patch the trenches at the intersection instead of doing to job properly with asphalt	\$ 2,000.00

V83	Further Undercutting of the Kerb Line outside the Farmers Carpark	\$ 1,000.00
V84	P5 Parking Signage, supply and install these parking signs as directed in Moray Place	\$ 500.00
V85	Community House Vehicle Entrance - Make adjustments to the concrete crossing as per instructions	\$ 3,500.00
V86	Freight Costs to have the excavation trench shield on site ready for the sewer connection then sent back due to this work being cancelled as no building consent had been approved by DCC	\$ 500.00
V87	Cobble Stone Supply Quality - Persons to sort through each pallet to sort out and put to one side any edge cracked pavers.	\$ -
<b>SUBTOTAL: Variations Forecast / Unclaimed</b>		<b>\$ 1,050,068.59</b>
<b>Variations Claimed (Watermain - DCC)</b>		<b>\$</b>
V29	Job Site Hold Point from Thursday night due to watermain issues and lack of clarity around starting/stopping. Claimed one working day @ \$5,525.00 + processing costs.	\$ 5,627.38
V30	Water Main Work - Section One / Raider Main installation in front of the shops as per Plan 3810322-CE-K301 which FH have undertaken.	\$ 71,698.00
V31	Water Main Work - Section Two / Police Station connection to existing watermain across the road as per Plan 3810322-CE-K301 which CityCare have undertaken.	\$ 20,886.51
V33	Water Main Work - Section Four / Great King Street, New 180mm watermain installation.	\$ 194,565.60
V38	Police Station Vehicle Entrance Way Rework - Stripping of cobble stones, cleaning bedding mortar off cobbles, concrete cutting and removal plus City Care to undertake the necessary water connections/installations and blanking Off's.	\$ 8,239.85
V56	Bransons Corner water main adjustments as per DCC instructions. City Care undertook the hookup and adjustments while FH provided everything else that was needed to complete the work.	\$ 4,313.31
V64	Watermain change of alignment to go over the top of the existing sewer pipe with a PE fabricated fitting (outside Farmers building).	\$ 2,527.25
V67	Water main trench undercutting for the full length	\$ 53,517.80
V68	Water Main Work - Additional Fire Hydrants installed as requested	\$ 1,435.08
<b>SUBTOTAL: Variations Claimed (Watermain - DCC)</b>		<b>\$ 362,810.78</b>

<b>Variations Forecast / Unclaimed (Watermain - DCC)</b>		<b>\$</b>
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V30	Water Main Work - Section One / Raider Main installation in front of the shops as per Plan 3810322-CE-K301 which FH have undertaken.	\$ 17,924.50
V31	Water Main Work - Section Two / Police Station connection to existing watermain across the road as per Plan 3810322-CE-K301 which CityCare have undertaken.	\$ 5,221.63
V33	Water Main Work - Section Four / Great King Street, New 180mm watermain installation.	\$ 48,641.40
V64	Watermain change of alignment to go over the top of the existing sewer pipe with a PE fabricated fitting (outside Farmers building).	\$ 2,527.25
V68	Water Main Work - Additional Fire Hydrants installed as requested	\$ 358.77
V65	<del>Watermain change of alignment to go over the top of the existing stormwater main concrete encasement with a PE fabricated fitting (at the intersection outside Banson's hotel)</del>	<del>\$ 5,000.00</del>
V66	Water main connection @ Moray Place to go over the Chorus Ducts that are at the same level	\$ 2,500.00
	<b>SUBTOTAL: Variations Forecast / Unclaimed (Watermain - DCC)</b>	<b>\$ 82,173.55</b>

## Variation Costs

Varia	Discription	Quantit y	Unit	Rate	Amount	Claimed	Approved
V01	Single Bus Shelter concrete foundation reinforcing detail. Repricing after receiving revised construction drawings as the tender drawing showed very little detail.						
		1	LS	\$ [REDACTED]	[REDACTED]	September	
V02	Traffic Signal Ducting/Pole Installation - Day works? Or LS as per spread sheet to be provided.						
					\$ -		
V03	Survey Information Change #1 - Kerb line set out as per information provided however this kerb line/height was changed						
	Registered Surveyor	5	Hrs	\$ [REDACTED]	[REDACTED]	August	
	Engineer/ Manager	1	Hrs	\$ [REDACTED]	[REDACTED]		
V04	Survey Information Change #2 - Police Station Entranceway, resurvey of kerb line, recutting of kerb line, re excavation and placement of kerb basing material.						
	Registered Surveyor	2.4	Hrs	\$ [REDACTED]	\$ [REDACTED]	August	
	Foreman/Site Supervisor	2.6	Hrs	\$ [REDACTED]	\$ [REDACTED]		
	Labourer	4	Hrs	\$ [REDACTED]	\$ [REDACTED]		
	3.5T Excavator	1.6	Hrs	\$ [REDACTED]	\$ [REDACTED]		
	8T Truck	1.4	Hrs	\$ [REDACTED]	\$ [REDACTED]		
	Plate Compactor	1.2	Hrs	\$ [REDACTED]	\$ [REDACTED]		
	Bailys Concrete Cutting	1	LS	\$ [REDACTED]	\$ [REDACTED]		
	Engineer/ Manager	1.5	Hrs	\$ [REDACTED]	\$ [REDACTED]		
				\$ [REDACTED]			
V05	Footpath Excavation - Large/thick concrete slab @ Gym						
	Foreman/Site Supervisor	2	Hrs	\$ [REDACTED]	\$ [REDACTED]	August 50% Approved, September the remaining 50%. Claimed the	
	Labourer	1.5	Hrs	\$ [REDACTED]	\$ [REDACTED]		
	8T Digger	3.7	Hrs	\$ [REDACTED]	\$ [REDACTED]		
	12T Truck	4.8	Hrs	\$ [REDACTED]	\$ [REDACTED]		
	Bailys Concrete Cutting	1	LS	\$ [REDACTED]	\$ [REDACTED]		
	Engineer/ Manager	1.5	Hrs	\$ [REDACTED]	\$ [REDACTED]		
				\$ [REDACTED]			

V06	Footpath Excavation - Additional gravel required to cover soft subgrade material (Email instruction received) To be claimed as each side footpath is completed.						October +	
V07	Mudtanks Syphons - Tender pricing was based on the tender drawings which do not reflect the current DCC Standard. Syphons and cleaing eyes have been added to each laterial that has been installed.						August 50% Approved. Waiting on the person who can provide the	
	Unit Rate received from FH Drainage @ \$1,41.63 /	10	Ea	\$		\$		
	Engineer/ Manager	1.75	Hrs	\$		\$		
						\$ 10,535.74		
V08	Mudtanks - Excavation and saw cutting. Additional concrete and depth is far greater than assumed at tender time. The assumed depth was 250mm for half the lane width, realty onsite is average depth of 350mm and across the full lane width which has required additional saw cutting at depth, additional dump fees and excavation time.						August 50% Approved, October the remaining 50%. Claimed the balance as this is a one off	
	Foreman/Site Supervisor	1	Hrs	\$		\$		
	Labourer	2	Hrs	\$		\$		
	3.5T Excavator	1.5	Hrs	\$		\$		
	8T Truck	2	Hrs	\$		\$		
	Bailys Concrete Cutting	1	LS	\$		\$		
	Engineer/ Manager	1.5	Hrs	\$		\$		
	Additional cost per mudtank installation					\$		
Installed to date					10			
Cost					\$ 11,278.35			
V09	Archaeological stand down/waiting crew time							
V10	Archaeological - Service Manhole outside Police Station required substantial rebuilding as the existing concrete/Blue Stone ring was cracked and falling apart.						August	Claimed under Iter
	Foreman/Site Supervisor	7	Hrs	\$		\$		
	Labourer	14	Hrs	\$		\$		
	3.5T Excavator	0.5	Hrs	\$		\$		
	Bailys Concrete Cutting	1	LS	\$		\$		
	Manhole lid	1	LS	\$		\$		
	Concrete Riser	2	Ea	\$		\$		
Concrete	0.9	m3	\$		\$			

To be claimed wher

Being recored at thi



	Engineer/ Manager	1.5	Hrs	\$	█	\$	█	
						\$	2,427.70	
V11	Lighting Pole Removal - Assumed at tender that these lighting poles would have been firmly compacted around as are other Lighting Pole Removal Police Station Side of the road - Assumed at tender that these lighting poles would have been firmly compacted around as are other lighting poles in Dunedin however they have	1	LS	\$	█	\$	█	September
V12	Power/Communication ducting outside of tender work area (Terminus Building to Bus Stop K, Moray Place. Plan 3810322-CE-1201 Rev1 shows no requirement for work however Plan 3810322-CE-1201 Rev 1/Reissued Plans shows the requirement for additional power/communication ductings plus two pits. This will require asphalt reinstatement of the footpath and the concrete crossing into the Count Down carpark )							
V13	Footpath Excavation - Large/thick concrete slab @ Countdown Carpark (Police Station side)							
	Foreman/Site Supervisor	1	Hrs	\$	█	\$	█	August 50%
	Labourer	1.5	Hrs	\$	█	\$	█	Approved,
	8T Digger	2.2	Hrs	\$	-	\$	-	September
	12T Truck	3	Hrs	\$	█	\$	█	the
	Bailys Concrete Cutting	1	LS	\$	█	\$	█	remaining
	Engineer/ Manager	1.5	Hrs	\$	█	\$	█	50%.
						\$	1,206.79	Claimed the
V14	Footpath Excavation - Large/thick concrete slab @ Countdown Carpark (Terminus Building side)							
	Foreman/Site Supervisor	1.25	Hrs	\$	█	\$	█	August 50%
	Labourer	1.8	Hrs	\$	█	\$	█	Approved,
	8T Digger	2.5	Hrs	\$	-	\$	-	September
	12T Truck	3	Hrs	\$	█	\$	█	the
	Bailys Concrete Cutting	1	LS	\$	█	\$	█	remaining
	Engineer/ Manager	1.5	Hrs	\$	█	\$	█	50%.
						\$	1,363.60	Claimed the
V15	Exeloo / Bike Park Area which was not included in tender schedule (excavation, nib wall construction)							
V16	Kerb & Channel Undercutting for soft subgrade							
	Foreman/Site Supervisor	0.3	Hrs	\$	█	\$	█	October
	Labourer	1.8	Hrs	\$	█	\$	█	18.6 Lm on
	3.5T Excavator	1.2	Hrs	\$	█	\$	█	the Farmers
	Additional kerb base material (Cart & dump	2.07	m <sup>2</sup>	\$	█	\$	█	

Delta will be asking they did not know th attached to the pole

Schedlue has no all asphalt footpaths at there reinstatement

Will be covered with design is confirmed

	material + supply, cart and place additional	2.57	1112	\$	177.74	\$	437.04	side of the	
	Engineer/ Manager	0.25	Hrs	\$	██████	\$	██████	road	
						\$	681.38		
V17	Mud Tank – The repositioning of # SWCP5. Now not required as we have made it fit.								
V18	Ducting - Excessive existing service are in the ground that required additional resources and hydrovac unit to get new services into place								
V19	Chorus Pit @ Bus Park H, make adjustments to pit lid to fit kerb past. Not required as we made it fit.								
V20	Down Pipe @ Gym/Smith Shoes has left a large under run under building as it had lost its connection out to the kerb. Lateral length will be claimed under Item 4.1.10								
V21	Thrust Boring of Ducting as it is too difficult to undertake traditional excavation and Hydrovac is too slow. This idea will not work due to timing and proximity to HV cables.								
V22	Double Bus Shelter concrete foundation reinforcing detail. Repricing after receiving revised construction drawings as the tender drawing showed very little detail.								
		1	LS	\$	██████	\$	██████	October	
V23	Double Bus Shelter @ Exeloo location, concrete foundation reinforcing detail. Repricing after receiving revised construction drawings as the tender drawing showed very little detail.								
V24	Chorus Pit @ Bus Park H, make adjustments to pit lid to fit new style Sika lid.								
V25	Variation Price Request VPR #2 – Community House Catchpit								
	Additional Costs to undertake this work	1	LS	\$	██████	\$	██████		
	Engineer/ Manager	1.25	Hrs	\$	██████	\$	██████	August	
						\$	3,488.94		
V26	#REF!								
V27	Double Bus Shelter J concrete foundation detail has changed to a piled floating foundation detail because of existing services in the ground are in conflict plus additional depth concrete pile to accommodate a change to get around the Chorus pit.								
		1	LS	\$	██████	\$	██████	October	
V28	Additional cost to supply and lay 100mm Ducting including joints, bends and down void Commis cables on east side of the street								

Additional costs be

Waiting on new drawings to be

Claimed under Item



	Bailys Concrete Cutting	1	LS	\$		\$		cobbles, cleaning of what cobbles could be reused, concrete
	Engineer/ Manager	2	Hrs	\$		\$		
	FH Civil concrete and reinforcing supply plus placin	1	LS	\$		\$		
	Additional TM Control	1	LS	\$		\$		
						\$	8,239.85	
	Concrete infill between new kerb and the existing concrete under road concrete slab @ the St Andrews / Great King Street Intersection.							
V39	Foreman/Site Supervisor	26	Hrs	\$				October Excavate all of the trenches, areas next to the kerbs and areas cut out for water main installation/banking off work within the closed off area of the
	Labourer	67.3	Hrs	\$				
	3.5T Digger	15.4	Hrs	\$				
	8T Truck	12	Hrs	\$				
	Plate Compactor	8.25	Hrs	\$				
	Bailys Concrete Cutting	1	LS	\$				
	Engineer/ Manager	6	Hrs	\$				
	FH Civil concrete and reinforcing supply, drill in and set up starter bars/reo rods plus placing	1	LS	\$				
	Additional TM Control to cover intersection	1	LS	\$				
						\$	29,571.50	
V40	Concrete infill between new kerb and the existing concrete under road concrete slab @ the Moray Place / Great King Street Intersection.							
V41	Spark coordination and supervision.							
V42	Bus Shelter T & J - survey of the true boundary line, cut of the necessary width of rib wall, return the back edge of the shelter foundation boundary line.							
	Registered Surveyor	25	Hrs	\$				October Slow hard going with the hand held concrete saw.
	Engineer/ Manager	8	Hrs	\$				
	Labourer	12.3	Hrs	\$				
	3.5T Digger	1.75	Hrs	\$				
	8T Truck	1.5	Hrs	\$				
	Bailys Concrete Cutting (hand cutting with a 450mm	1	LS	\$				
						\$	7,014.23	

V43	Cutting Pavers around the Traffic Signal access pits, not detailed or an item for this type of work. Claim the Lm cutting rate					
V44	Moray Place - Man Hole has been covered over with asphalt which is in line with the new kerb position.					
	Registered Surveyor	2	Hrs	\$	[REDACTED]	October Source an 1800 Dia manhole and lid from Chch, dig around and close to Chours ducting to
	Engineer/ Manager	5	Hrs	\$		
	FH Drainage	1	LS	\$		
	Construction Labour	13	Hrs	\$		
	3.5T Digger	5.2	Hrs	\$		
	8T Truck	1.8	Hrs	\$		
	Bailys Concrete Cutting	1	LS	\$		
				\$ 16,162.40		
V45	Moray Place - Old Tram line encased in concrete is in the direct line/position of the new kerb position.					
	Foreman/Site Supervisor	1.5	Hrs	\$	[REDACTED]	October Hand cut concrete where we could not break out the tram rails.
	Labourer	4.2	Hrs	\$		
	8T Digger	2.6	Hrs	\$		
	8T Truck	1.5	Hrs	\$		
	Bailys Concrete Cutting	1	LS	\$		
	Engineer/ Manager	0.5	Hrs	\$		
				\$ 1,653.06		
V46	Double Bus Shelter C @ ch80, concrete foundation detail.					
V47	Double Bus Shelter C @ ch65, concrete foundation detail has changed to a pile design plus it needed additional pile excavation depth so that adjustments could be made to the reinforcing steel layout due to a Chorus Pit.					
V48	Double Cantilevered Bus Shelter B concrete foundation detail has changed to a piled floating foundation detail because of existing services in the ground are in conflict.					
V49	Vegetation Trimming of the trees/shrubs along the Count Down Carpark to allow for the erection of the Bus Shelters					
V50	Syka Services Lids, remove the new lids and frames, replace the frames with channel frames plus modify the concrete surrounds to allow for the new frames plus slight orientation as required to line up with the pavers. KB Contractors to undertake.					
	Relocate the DCC Water Meter connection @ Bus Shelter F					
	Foreman/Site Supervisor	1.5	Hrs	\$	[REDACTED]	October

V51	Labourer	2	Hrs	\$	[REDACTED]	Relocate existing water meter to allow single bus
	Shaw Plumbing working under DCC guidelines/inst	1	LS	\$		
	Engineer/ Manager	1	Hrs	\$		
V52	Moray Place Bus Stop K - Supply 2 x normal lids for the comms and power Lids (Not paver infill lids)					
V53	Moray Place Trenching from Terminus Building to Bus Stop K - Large chunks of concrete in the footpath (20.4x.500 + 4.2x.500)					
V54	Moray Place Traffic Signals - Repositioning of the traffic signals due to survey data/plans not lining up.					
	Registered Surveyor	1.2	Hrs	\$	[REDACTED]	October
	Engineer/ Manager	1	Hrs	\$		
	Labourer	5.5	Hrs	\$		
	Hydrovac Unit	1.25	Hrs	\$		
				\$ 737.95		
V55	Farmers Building section of the footpath - Large thick concrete slabs have been under covered under the asphalt surface (4x2.5x350 + 3x2.5x320 + 4.3x2.5x380)					
	Foreman/Site Supervisor	2.5	Hrs	\$	[REDACTED]	October Emailed through notification of these areas.
	Labourer	6.5	Hrs	\$		
	8T Digger	6.3	Hrs	\$		
	12T Truck	4.5	Hrs	\$		
	Bailys Concrete Cutting	1	LS	\$		
	Engineer/ Manager	1.5	Hrs	\$		
				\$ 3,035.90		
V56	Bransons Corner water main adjustments as per DCC instructions. City Care undertook the hookup and adjustments while FH provided everything else that was needed to complete the work.					
	Foreman/Site Supervisor	6	Hrs	\$	[REDACTED]	October City Care pumped water into an open hole without knowing where it
	Labourer	24	Hrs	\$		
	3.5T Digger	2.2	Hrs	\$		
	Shaw Plumbing	1	LS	\$		
	Engineer/ Manager	3.3	Hrs	\$		
				\$ 4,313.31		
V57	#REF!					

V57							
V58	VPR #1 - Additional milling required to obtain the intersection finished design levels and keying into the kerbs, this will require milling into concrete						
	VPR #1 - Additional depth of Asphalt over the intersection Mill and Fill Areas, required Depth has changed from 50mm to 50mm						
V59	VPR #2 - Additional work required for the catchpit relocation at Community House.						
	VPR #2 - Additional work required for the catchpit	1	LS	\$ 3,488.94	\$ 3,488.94	October / NTE #6	
V60	VPR #4 - Footpath removal and replacement @ the Refined Rig corner.						
	VPR #4 - Footpath removal and replacement @	1	LS	\$ 7,094.29	\$ 7,094.29	October / NTE #9	
V61	VPR #5 - Additional work required to install the traffic signals according to the alternative methodology put forward,						
	VPR #5 - Additional work required to install the traffic signals according to the alternative methodology put forward	1	LS	\$ 9,368.92	\$ 9,368.92	October / NTE #13	
V62	Process and apply for the Services Connection Consent for the Exeloo and Kiosk.						
V63	Stormwater lateral from the Farmers building requires lowering or incasement in concrete.						
V64	Watermain change of alignment to go over the top of the existing sewer pipe with a PE fabricated fitting (outside Farmers building)						
		1	LS		\$ 5,054.50	October	
V65	Watermain change of alignment to go over the top of the existing stormwater main concrete encasement with a PE fabricated fitting (at the intersection outside Banson's hotel)						
	Claimed under V64						
V66	Water main connection @ Moray Place to go over the Chorus Ducts that are at the same level						
	Claimed under V64						
V67	Water main trench undercutting for the full length						
		1	LS		\$ 53,517.80	October	
V68	Water Main Work - Additional Fire Hydrants installed as requested						
		1	LS		\$ 1,793.85	October	
V69	Lighting Pole Removal Farmers Side - Assumed at tender that these lighting poles would have been firmly compacted around as are other lighting poles in Dunedin however they have large concrete bases around them. Addition resources and concrete						
V70	Traffic Light Signal Brand Change- As per Email 17/10/2018, additional extra over costs to Items 6.1, 6.2, 6.46 & 6.47						
V71	St Andrews Street / Great King Street Kerb Pedestrian Crossings - Shown on the plans but not included within the schedule.						
V72	Exeloo additional Costs for its Upgrade (Items 4.3.1 & 4.3.2 = \$150,000 - \$178,350.00 = Short Fall of \$28,350.00)						

V72	
V73	Future Wood Fence Costs (Retaining wall @ \$18,017.47 + Fence Supply @ \$3,000.00 + Install @ \$4,236.00 = \$25,253.47 - Scheduled Item 4.3.3 @ \$2,500.00 = Short Fall of \$25,675.47)
V74	Delta Stand Over - Farmers Side of the road for careful slow excavation along the length of the 6.3kva power cable plus the lowering of the existing ducts in the ground. From 23/10/2018
V75	Line Marking - Not asked for nor included in item 7.7.1 Scheduled Rates is the Green Cycleway Blocks although they are shown on the plans
V76	Moray Place - Box up for and pour a concrete slab for the Post box that had to be removed for footpath construction. (Not allowed for within the schedule)
V77	Survey Information Adjustments to allow the kerb line to be moved out into the road at Bus Stop C (Bus foundations were going to be in the Farmers carpark if things weren't moved)
V78	#REF!
V79	Chorus Ducting - Full length of the street
V80	Pavement - Concrete base. Over and above items scheduled for pavement
V81	#REF!
V82	
V83	

Item	Description	Units	Qty	Accepted Price	
				Scheduled Rate	ed Amount
9.1	Engineer/Manager		20		



9.2	Foreman/ Site Supervisor		20	\$	
9.3	Carpenter		20	\$	
9.4	Labourer		40	\$	
9.5	Registere d Drain Layer		20	\$	
9.6	Registere d Surveyor		20	\$	
9.7	Concrete Worker		20	\$	
9.8	Registere d Electrician		20	\$	
9.9	3.5T Excavator		20	\$	
9.10	8T Digger		20	\$	
9.11	20T Excavator		20	\$	
9.12	8T Truck		20	\$	
9.13	10T Truck		20	\$	
9.14	12T Truck		20	\$	
9.15	2-3T Roller		20	\$	
9.16	7-8T Roller		20	\$	
9.17	Plate Compacto r		20	\$	
	<b>Sub-total</b>				
	<b>Descripti</b>			<b>Accepted Price</b>	

Item	Description	Units	Qty	Scheduled Rate	ed Amount
9.1	Engineer/Manager		20	\$	
9.2	Foreman/Site Supervisor		20	\$	
9.3	Carpenter		20	\$	
9.4	Labourer		40	\$	
9.5	Registered Drain Layer		20	\$	
9.6	Registered Surveyor		20	\$	
9.7	Concrete Worker		20	\$	
9.8	Registered Electrician		20	\$	
9.9	3.5T Excavator		20	\$	
9.10	8T Digger		20	\$	
9.11	20T Excavator		20	\$	
9.12	8T Truck		20	\$	
9.13	10T Truck		20	\$	
9.14	12T Truck		20	\$	
9.15	2-3T Roller		20	\$	
9.16	7-8T Roller		20	\$	

9.17	Plate Compacto r		20	\$	■	
	<b>Sub-total</b>					

October 18.6 Lm or



1 each side footpath is completed. East Side claimed in October.

is stage

1 1.14

for a variation to cover this. Even  
here where concrete blocks  
are

allowance for trenching through  
and concrete vehicle crossings and  
..

1 a pricing request once final

ing recorded

1.14



Red Rig Corner x 2 Bollards

1m Delta



















n the Farmers side of the road

**From:** [Philip Morrison](#)  
**To:** [Murray Fletcher](#); [Derek Walsh](#)  
**Cc:** [James Taylor](#)  
**Subject:** Bus Hub - Draft Text for CI#38  
**Date:** Friday, 14 December 2018 1:01:06 p.m.  
**Attachments:** [image007.png](#)  
[image002.png](#)  
[image004.png](#)  
[image006.png](#)

---

Hi Murray, Derek,

Please see attached below text of a Contract Instruction that I want to distribute later this afternoon.

Can you please both cast your eyes over it and suggest changes where required?

Thanks,  
Philip

## **1 Otago Community House – Parapet Condition Review**

Otago Community House have, through their contractor Naylor Love, commissioned a report from WSP-Opus titled *Community House Moray Place Dunedin Review of Parapets* (4 October 2018).

A copy of this report was subsequently provided to the Principal and to Beca.

We attach a copy of the report to this instruction for the Contractor's information.

While the report identifies the building parapets are 'vulnerable' to a 'significant seismic event', no assessment is made with regard to construction activities being undertaken by the Contractor in the construction of the Bus Hub.

We therefore make the following recommendations:

1. The Contractor shall conduct their own review of the report and of the parapets' physical condition with regard to the construction activities on the site.
2. The Contractor shall arrange access to the building and carry out a further dilapidation survey of the parapets, if required.
3. The Contractor shall consider if there are any additional risks identified in the attached report, or by their inspection of the building, and identify any mitigations or changes to construction methodology required in order to minimise health and safety risks to workers, building users and the public during works adjacent to the building.
4. The Site Specific Safety Management Plan (SSSMP) shall be updated to reflect any items identified in (3) above. The updated SSSMP shall be provided to the Engineer for review and acceptance prior to works proceeding.
5. The Contractor shall identify any mitigations or changes to construction methodology required in order to minimise the risk of construction activities causing damage to the building.
6. The Engineer shall be consulted for their acceptance of any items identified in (5) above prior to works proceeding.

## **2 Paver Joint Filling Sand**

On some areas of concrete segmental paving the Contractor has substituted the polymer jointing sand specified for the purpose of joint filling with a plain beach sand.

This beach sand shall be removed and replaced with the polymer jointing sand specified within Landscape Specification C5004.7.2.

Prior to the removal and replacement of the sand, the Contractor shall notify the Engineer of the methodology proposed.

No removal and replacement of the sand shall proceed until instructed by the Engineer.

## **3 Alternative Footpath Pavement Design**

With reference to item (1.3) above, where the Contractor identifies an unacceptable risk of using vibration equipment, the Engineer confirms the following substitution is acceptable following submission and acceptance of price and the Engineer's direction on site:

**Scheduled item:**

7.3.1	Supply and install 100mm TNZ M4/40 base course layer including testing and compaction to all pedestrian areas - note: does not include areas where canopy or bus shelter concrete slabs are located, or vehicular trafficked areas. (Total subgrade area 917m <sup>2</sup> ). Refer DWG 3810322-CE-1142.
-------	--

**Replaced by:**

7.3.1b	Supply and install 100mm lean-mix (20MPa) concrete including testing to pedestrian footpath areas as directed by the Engineer.
--------	--

Prior to any such substitution, the Contractor shall:

1. Confirm the price of 7.3.1b by return of the attached VPR07
2. Notify the Engineer of any footpath areas where item 7.3.1 is proposed to be replaced with item 7.3.1b
3. Await the instruction of the Engineer to proceed with the work.

The above instruction does not discharge the Contractor from their obligations under NZS3910:2013 (5.6) and (5.7).

## 4 Site Inspection and Maintenance During Shutdown

During the site shutdown period from 30 November 2018 to 6 January 2019, the Contractor shall inspect and maintain the site, with respect to Temporary Traffic Management and Health & Safety Hazards.

The Contractor confirmed by email on 31 November 2018 (1:40pm, Peter Reid to Philip Morrison) that the scope of this work includes:

- Traffic Control Management;
- Maintenance of TMPs; and
- Sweeping of carriageways and footpaths as required.

The frequency of such inspections and maintenance is daily.

The Principal request that records of inspections and maintenance work completed shall be emailed to the following addresses during the shutdown period, at no greater than 2-day intervals.

- [xxxxxx.xxxxxxxx@xxx.xxx.xx](mailto:xxxxxx.xxxxxxxx@xxx.xxx.xx)
- [xxxxx.xxxxx@xxx.xxx.xx](mailto:xxxxx.xxxxx@xxx.xxx.xx)
- [xxxxxx.xxxxxxxx@xxxx.xxx](mailto:xxxxxx.xxxxxxxx@xxxx.xxx)

## 5 H&S Incident Reporting

On 19 November 2018 the Contractor supplied the Engineer with six Opportunity for Improvement (OFI) Case Details Report Forms for Health & Safety incidents that have occurred on site between 16 August and 30 October 2018.

The Contractor's Site Specific Safety Management Plan states that incidents rated 'High' and 'Extreme' shall be notified to the Client (through the Engineer) 'as required'.

We acknowledge that none of the incidents reported within the OFIs supplied are rated 'High' or 'Extreme'.

Notwithstanding this, the Client requests that, going forward, ALL incidents that result in an OFI Report being raised shall be forwarded to the Client as soon as practicable following the incident occurring.

**Attachments:**

- Community House Parapets Report 5 October 2018.pdf

**Philip Morrison**

Engineering Technologist

Beca

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**From:** [Philip Morrison](#)  
**To:** [SUTHERLAND, Alex](#)  
**Cc:** [Derek Walsh](#)  
**Subject:** Bus Hub - Items to complete prior to shutdown  
**Date:** Thursday, 29 November 2018 3:59:24 p.m.  
**Attachments:** [image007.png](#)  
[image008.png](#)  
[image009.png](#)  
[image010.png](#)  
[Bus Hub Items to complete prior to shutdown.docx](#)

---

Hi Alex,

Please see attached a checklist of items for completion as noted during this morning's walkover.

Let's know if you have any questions (or I've missed any).

Cheers,

**Philip Morrison**

Engineering Technologist

Beca

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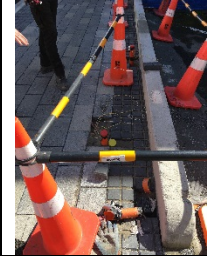
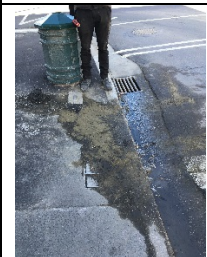



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	<b>BUS HUB</b> <b>Item to complete for Nov 30 Shutdown</b>	
	Moray Place – Temp AC over lightpole holes x2	
	Moray Place – parking sign poles & signs x3	
	Moray Place – yellow dash line at buildout	
	Moray Place – Service lid protruding	
	Moray Place – Move disabled parking sign	
	General – Wash down buildings	

	<p>Gt King (east) – Traffic signals cabinet or temp cover</p>	
	<p>Gt King (east and west) – Multiple protruding ducts – trim ducts flush and fill holes with crusher dust</p>	
	<p>Gt King St (east) – several areas where setts protrude &gt;5mm above kerb</p>	
	<p>Temp cable storage for streetlighting- ensure compliant warning signage is attached to cabinet (not necessary for Nov 30 but required when street lighting installed)</p>	
	<p>Install AC ped crossing drop on west side, opposite east side crossing point. Install safehit marker to prevent peds stepping into temporary catchpit on west side.</p>	
	<p>Once streetlights installed, temp seal excavation with AC</p>	
	<p>Fence off drop crossing to prevent ped access, install safe hits at 2-3m centres to prevent vehicles running on temp AC here</p>	



	<p>Service cover lid protruding – trip hazard</p>	
	<p>Further ducting... trim and dust</p>	
<p>(no photo)</p>	<p>Grouting of (at least) building boundary outside Refined Rig entrance.</p>	
	<p>Gt King outside Harbour Fish – cleanup required</p>	
	<p>Gt King outside Weirs – Downer to finish and tidy up</p>	
	<p>St Andrews outside Weirs – AC sealing of footpath</p>	
	<p>Gt King (west) outside Farmers. Service cover below paving level – trip hazard</p>	

	<p>Farmers entrance – cracked/loose tiles – trip hazard</p>	
	<p>Farmers entrance – pavers below level of lip on service cover – trip hazard</p>	

**From:** [Philip Morrison](#)  
**To:** [Gerard Collings](#); [Derek Walsh](#); [SUTHERLAND, Alex](#); [xxxxxx.xxxxxxxxx@xxxxxxxxxxx](#); [REID, Peter](#); [James Taylor](#)  
**Cc:** [Tom Wager](#)  
**Subject:** Bus Hub - Programming Meeting Notes (Fri 9/11/2018)  
**Date:** Saturday, 10 November 2018 7:39:25 a.m.  
**Attachments:** [image007.png](#)  
[image002.png](#)  
[image004.png](#)  
[image006.png](#)

Hi all,

My notes from the Programme meeting yesterday (Fri) morning. Note, this includes some items discussed after FH had left the meeting.

In attendance: Gerard Collings, ORC (GC); Derek Walsh, ORC (DW); Philip Morrison, Beca (PM)

For first half only: Alex Sutherland, FH (AS); Marcus Damsteegt, FH, (MD); Pete Reid, FH (PR);

For second half only: James Taylor, Beca (JT)

Item	Action
ORC require completion of all works on site by 1 March 2018. No extensions, no exceptions. This is due to bus timetabling/operations.	Noted
V9 Programme with completion date of 8 March not acceptable to ORC, need to accelerate works.	Noted
Pete: there is some contingency/conservatism built into V9 programme, based on previous project experience. FH not keen to reduce any contingency	Noted
Possibility identified of some acceleration of carriageway construction, 7-day curing pre-traffic allowed for, PM to seek further input from Bruce Steven (Beca Pavement Designer).	PM
Some works likely to be concurrent although not shown as such in programme (e.g. some Moray intersection work)	Noted
Option of starting works 8 Jan (1 week earlier). Requires Grant Sime agreement. Gerard to discuss with Grant.	GC
Pete to investigate supplier/materials availability for earlier start date, or arrange pre-orders as necessary.	PR
Pete confirmed Aotea items are accommodated within V9 programme.	Noted
Concerns remain re: DesignBrand delivery of canopies and kiosk. PM to set up meeting Monday with DesignBrand, FH, ORC and Beca. James to contact Jurgen today (Fri) to discuss, prior to meeting.	PM / JT (Completed Fri)
GC raised question of concrete road (no, or minimal AC required) as possible programme/cost advantage. PM to ask Bruce Steven.	PM
Wet weather – work affected by wet weather limited to paver laying and top AC coat & linemarking.	Noted
FH Require signage inventory and temp catchpit locations by c.o.b. Fri to enable construction starting Mon.	PM (Completed Fri)
Temporary street lighting provision sits with Aurora/Aotea to sort out	Noted
Temporary Police parking in Cumberland to continue until project completion, ensure TMP allows for this.	PM
Marcus to be cc'd to all Pete correspondence going forward	Noted
ORC require Marcus to be fully committed to project on any days that PR is unavailable prior to Christmas shutdown. PM to communicate this to FH.	PM

Let's know if I've missed anything (or anything needs correcting).

Cheers,

**Philip Morrison**

Engineering Technologist

Beca

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**From:** [Philip Morrison](#)  
**To:** [Derek Walsh](#); [SUTHERLAND, Alex](#); [REID, Peter](#); "[xxxxxx.xxxxxxxxxx@xxxxxxxxxxxx.xxx](#)"  
**Cc:** [Gerard Collings](#); [James Taylor](#); [Tom Wager](#)  
**Subject:** Bus Hub Programme Meeting 20 Nov - DRAFT Notes  
**Date:** Tuesday, 20 November 2018 3:50:03 p.m.  
**Attachments:** [image007.png](#)  
[image008.png](#)  
[image009.png](#)  
[image010.png](#)

---

Hi All,

My (draft) notes from the Programme Meeting 20.11.2018

Feel free to add or correct anything.

Present: Derek Walsh DW; Pete Reid PR; Alex Sutherland AS; Marcus Damsteegt MD; Philip Morrison PM

- 10 days to go before shutdown, PR confident paving will be completed. Areas not paved will be AC.
- FH require Parking Plan asap – PM to provide (at least in draft form) and confirm likely safe-hit qty
- Trial of parking areas needs to occur – will happen as and when areas are available. FH to notify PM.
- Community House items on track for completion prior to Nov 30 incl. accessway crossing (temporary AC), retaining wall, disabled parking sign. AS to confirm bollard removal.
- FH waiting on Beca for supply of:
  - Structural design for Countdown sign – PM to follow up, expected by Thurs 22<sup>nd</sup> Nov
  - Pavement design finalised – PM to follow up, expected by c.o.b. today Wed 20<sup>th</sup> Nov
  - Kiosk drainage consent – PM to make further request to DCC to allow combined excavation for SS hookup
  - Parking Plan – PM to follow up / provide draft
  - SPB foundation design – PM to follow up
- Firth had made offer to thin pavers down for Sika lids. PM to advise AS.
- Kiosk – Beca to confirm who is responsible for local designer's scope – expected to be provided by DesignBrand
- Electrical/Comms. DW instructed PR to advise Aotea of intention to contract and to give go-ahead for material ordering purposes on the basis that there may still be some price negotiation/justification required.
- Branson's Issues:
  - PR confirmed footpath paved (with pavers) before Nov 30
  - Water supply – AS explained was due communication breakdown between old and new paving foreman, Branson's water supply will not be used again.
  - Branson's building will be cleaned by FH once works completed (including outdoor smoking area)
  - ORC will likely agree to commercial cleaning of floor but not re-sanding & varnishing
- Financial position of project needs updating for council meeting. PM to provide forecast cost-to-complete to DW by c.o.b. Wed 21 Nov
- PM to chase Hjarne (DCC) re: recycling bin installation
- PM to attend meeting with Police/Blind Foundation Fri morning. Sue-Ellen to invite, DW to forward to PM. Police expected to follow Blind Foundation advice
- PR confirmed lighting poles may be installed after business hours at increased overtime rates, PR has instructed Delta that this will be acceptable.
- Paver chipping acceptability and remedial actions expected to be decided this week. Unknown at this stage where additional costs will finally lie.

Cheers,

**Philip Morrison**

Engineering Technologist

Beca

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**From:** [Tom Wager](#)  
**To:** [Gerard Collings](#); [Derek Walsh](#); [Philip Morrison](#); [James Taylor](#); [xxxx.xxxx@xxxxxxxxxxxx.xxx](#); [xxx.xxxxxxxxx@xxxxxxxxxxx.xxx](#)  
**Subject:** Bus Hub Programme Meeting Minutes - 31 October 2018  
**Date:** Friday, 2 November 2018 1:30:45 p.m.  
**Attachments:** [image001.png](#)  
[image002.png](#)  
[image003.png](#)  
[image004.png](#)  
[Bus Hub Programme Meeting - 31 October 2018.pdf](#)

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Hi Team,

Here are the minutes from our programme meeting on Wednesday.  
If you have comments, please let me know.

Have a good weekend,

**Tom Wager**

Civil Engineer – South Island Infrastructure  
of Beca

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## Minutes

### Bus Hub Programme Meeting - 31 October 2018

Held 31 October 2018 at 11:00 at ORC Office, Rattray St, Dunedin

<b>Attendance:</b>	Tom Wager (TW)	Beca
	Philip Morrison (PM)	Beca
	James Taylor (JT)	Beca
	Will Clifford (WC)	DCC
	Tom Dyer (TD)	DCC
	Peter Reid (PR)	Fulton Hogan
	Alex Sutherland (AS)	Fulton Hogan
	Gerard Collings (GC)	ORC
	Derek Walsh (DW)	ORC
<b>Apologies</b>	Mike Tannock (MT)	DCC
<b>Distribution</b>	Beca	
	ORC	
	Fulton Hogan	

Item	Action
<b>1 Previous Minutes</b>	
■ No objections	<b>Note</b>
<b>2 Health, Safety and Environment</b>	
■ A FH worker cut through a live cable thinking it was dead. Sabre saw blade blew up and cable was supposed to be dead. This was supposedly checked by Downer	<b>Note</b>
■ An Aurora low voltage cable started sparking as a worker was hydrovaccing around it. Work was terminated while Aurora made the cable safe.	<b>Note</b>
– FH are currently investigating both the above incidents. Results of investigations to be forwarded to Beca, Beca to distribute to ORC.	<b>PR</b>
<b>3 Contractor's Personnel</b>	
■ Forecast changes to key personnel	<b>Note</b>
– Pete will end role as Project Manager prior to Christmas, replacement tbc	<b>Note</b>
<b>4 Programme</b>	
■ Most of the water work should be completed by the end of the week. Some decommissioning will be next week	<b>Note</b>
– This will likely cause service interruptions, but these will be outside of	<b>Phil</b>



Item	Action
business hours. Phil to follow up with Dean for the programme	
<p><b>5 Site Works</b></p> <ul style="list-style-type: none"> <li>■ Water mains have held the project back for approx. 6-7 days</li> <li>■ Paving will be laid only up to the transformer before the break due to work still being done on the power cables</li> <li>■ FH to include programme time for pavement options and money by close of business 31/10/18</li> <li>■ FH to provide DCC with a methodology of lid alterations for St Andrews St intersection</li> </ul>	<p><b>Note</b></p> <p><b>Note</b></p> <p><b>FH</b></p> <p><b>PR</b></p>
<p><b>6 Contractor Design Requirements</b></p> <ul style="list-style-type: none"> <li>■ Drainage measures required to prevent significant flooding during closedown</li> <li>■ Beca to confirm the concrete depth for the concrete pavement option</li> </ul>	<p><b>PM</b></p> <p><b>Beca</b></p>
<p><b>7 Contractor's Report</b></p> <ul style="list-style-type: none"> <li>■ Not discussed</li> </ul>	<p><b>Note</b></p>
<p><b>8 Other Business</b></p> <ul style="list-style-type: none"> <li>■ ORC will pay for Aurora's futureproofing duct on Gt King St between Moray Place and St Andrews St running under the carriageway. <ul style="list-style-type: none"> <li>– \$2k for ducting along stretch where ducting was always planned</li> <li>– \$6k for ducting additional stretch</li> </ul> </li> <li>■ Pete to confirm methodology for lid alterations. Will is happy to keep the existing covers or swap for new if they are in bad condition. Need to check on supply</li> <li>■ DCC want to see price deduction for poor quality fittings <ul style="list-style-type: none"> <li>– Phil to find photos of fitting installations</li> </ul> </li> <li>■ Beca to give ORC plan of temporary closure by close of business today</li> <li>■ Beca to solve SW issue on west side during the temporary shutdown</li> <li>■ FH to do survey of kerb and cobble pavers pre and post shut down to record any damage occurs during the shut</li> <li>■ A communication session with media will be organised prior to Friday 2<sup>nd</sup> November's meeting</li> </ul>	<p><b>Note</b></p> <p><b>Note</b></p> <p><b>Note</b></p> <p><b>Phil</b></p> <p><b>Note</b></p> <p><b>Phil</b></p> <p><b>Beca</b></p> <p><b>Beca</b></p> <p><b>FH</b></p> <p><b>Note</b></p>

Minuted by TW/PM

**From:** [Tom Wager](#)  
**To:** [Gerard Collings](#); [Derek Walsh](#); [xxxxx.xxxx@xxxxxxxxxxxxx.xxx](#); [xxx.xxxxxxxxx@xxxxxxxxxxxxx.xxx](#); [James Taylor](#); [Philip Morrison](#)  
**Subject:** Bus Hub Programme Meeting Minutes- 6 November 2018  
**Date:** Thursday, 8 November 2018 5:46:29 p.m.  
**Attachments:** [image001.png](#)  
[image002.png](#)  
[image003.png](#)  
[image004.png](#)  
[Bus Hub Programme Meeting - 6 November 2018.pdf](#)  
[Bus Hub Programme Meeting - 31 October 2018 \(Rev 2\).pdf](#)

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Hi Team,

Here are the minutes from Tuesday's programme meeting.  
Also attached is a revised version of the previous meetings minutes.

If you have any comments, please get in touch

Regards,

**Tom Wager**

Civil Engineer – South Island Infrastructure  
of Beca

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## Minutes

### Bus Hub Programme Meeting - 6 November 2018

Held 6 November 2018 at 1:00pm at ORC Office, Rattray St, Dunedin

<b>Attendance:</b>	Tom Wager (TW)	Beca
	Philip Morrison (PM)	Beca
	Peter Reid (PR)	Fulton Hogan
	Alex Sutherland (AS)	Fulton Hogan
	Gerard Collings (GC)	ORC
	Derek Walsh (DW)	ORC
<b>Apologies</b>	James Taylor (JT)	Beca
<b>Distribution</b>	All above	

Item	Action
<b>1 Previous Minutes</b> <ul style="list-style-type: none"><li>Clarified point in Other Business<ul style="list-style-type: none"><li>DCC want to see <i>proof that fitting used in water main connections were new</i> or price deduction for second hand fittings.</li><li>TW to reissue</li></ul></li></ul>	<b>TW</b>
<b>2 Health, Safety and Environment</b> <ul style="list-style-type: none"><li>H&amp;S incident reports are still in progress. Phil to get dates for completion from PJ</li><li>Alex to get OFI's for previous incidents by Friday</li><li>Another unexpected cable was found but it was a dead cable</li><li>Victoria said the site housekeeping was poor and Phil agreed the housekeeping has slipped<ul style="list-style-type: none"><li>FH to arrange a sweep of the site</li></ul></li></ul>	<b>PM</b> <b>AS</b> <b>Note</b> <b>Note</b> <b>FH</b>
<b>3 Contractor's Personnel</b> <ul style="list-style-type: none"><li>Marcus Damsteegt will replace Pete as Project Manager<ul style="list-style-type: none"><li>Marcus will be phased in starting part-time on site next week</li></ul></li></ul>	<b>Note</b> <b>Note</b>
<b>4 Programme</b> <ul style="list-style-type: none"><li>Construction can be finished by 2<sup>nd</sup> week of March if concrete base course is used (best case)<ul style="list-style-type: none"><li>(Including Dec – mid Jan shutdown)</li></ul></li></ul>	<b>Note</b>

<p><b>5 Site Works</b></p> <ul style="list-style-type: none"> <li>■ Site is ready for DCC rubbish bins <span style="float: right;"><b>Note</b></span></li> <li>■ Pete asked if FH could be paid for half of the cost of the Exeloo <ul style="list-style-type: none"> <li>– Exeloo cost \$150k and is currently in FH's yard <span style="float: right;"><b>GC</b></span></li> <li>– ORC is not required to pay until it is on site</li> </ul> </li> <li>■ Electrical fault found by Aurora/Delta is not within the Bus Hub site <span style="float: right;"><b>Note</b></span></li> <li>■ Derek is talking with Hjarne regarding tactile layout <span style="float: right;"><b>DW</b></span></li> <li>■ Phil to raise alternate tactiles landscape team (to be installed late January) <span style="float: right;"><b>PM</b></span></li> <li>■ FH need to liaise with wayfinding sign installers to arrange installation <span style="float: right;"><b>FH</b></span></li> <li>■ Need to check with the DCC that they don't object to concrete base <span style="float: right;"><b>PM</b></span></li> <li>■ Gerard to discuss with ORC regarding road closure options for Gt King St <span style="float: right;"><b>GC</b></span></li> <li>■ Pete to explain the cost difference of the road closure <span style="float: right;"><b>PR</b></span></li> <li>■ Will need to consult with Great King St stakeholders on the road closure <span style="float: right;"><b>Note</b></span></li> </ul>	
<p><b>6 Contractor Design Requirements</b></p> <ul style="list-style-type: none"> <li>■ Consent required for drainage to Exeloo and Kiosk <span style="float: right;"><b>Note</b></span> <ul style="list-style-type: none"> <li>– Priority since drainage crew arrived on 15<sup>th</sup> <span style="float: right;"><b>Note</b></span></li> <li>– Phil to lodge consent urgently <span style="float: right;"><b>PM</b></span></li> </ul> </li> <li>■ SPB foundations <span style="float: right;"><b>Note</b></span> <ul style="list-style-type: none"> <li>– Beca to provide design <span style="float: right;"><b>PM</b></span></li> </ul> </li> </ul>	
<p><b>7 Contractor's Report</b></p> <ul style="list-style-type: none"> <li>■ With weekly programme meetings, contractor's reports are not currently necessary <span style="float: right;"><b>Note</b></span> <ul style="list-style-type: none"> <li>– Reports will be required to resume once Marcus Damsteegt is on board</li> </ul> </li> </ul>	
<p><b>8 Other Business</b></p> <ul style="list-style-type: none"> <li>■ FH are happy with Murray Fletcher as Engineer to the Contract <ul style="list-style-type: none"> <li>– ORC are working on paperwork <span style="float: right;"><b>DW</b></span></li> </ul> </li> <li>■ FH need Aurora to approve the temporary plan for lighting on east side <span style="float: right;"><b>FH</b></span></li> <li>■ FH to remove existing street light poles to reduce risk of disruption once paving stones are installed <span style="float: right;"><b>FH</b></span></li> </ul>	

Minuted by TW/PM

## Minutes

### Bus Hub Programme Meeting - 31 October 2018

Held 31 October 2018 at 11:00 at ORC Office, Rattray St, Dunedin

<b>Attendance:</b>	Tom Wager (TW)	Beca
	Philip Morrison (PM)	Beca
	James Taylor (JT)	Beca
	Will Clifford (WC)	DCC
	Tom Dyer (TD)	DCC
	Peter Reid (PR)	Fulton Hogan
	Alex Sutherland (AS)	Fulton Hogan
	Gerard Collings (GC)	ORC
	Derek Walsh (DW)	ORC
<b>Apologies</b>	Mike Tannock (MT)	DCC
<b>Distribution</b>	Beca	
	ORC	
	Fulton Hogan	

Item	Action
<b>1 Previous Minutes</b>	
■ No objections	<b>Note</b>
<b>2 Health, Safety and Environment</b>	
■ A FH worker cut through a live cable thinking it was dead. Sabre saw blade blew up and cable was supposed to be dead. This was supposedly checked by Downer	<b>Note</b>
■ An Aurora low voltage cable started sparking as a worker was hydrovaccing around it. Work was terminated while Aurora made the cable safe.	<b>Note</b>
– FH are currently investigating both the above incidents. Results of investigations to be forwarded to Beca, Beca to distribute to ORC.	<b>PR</b>
<b>3 Contractor's Personnel</b>	
■ Forecast changes to key personnel	<b>Note</b>
– Pete will end role as Project Manager prior to Christmas, replacement tbc	<b>Note</b>
<b>4 Programme</b>	
■ Most of the water work should be completed by the end of the week. Some decommissioning will be next week	<b>Note</b>
– This will likely cause service interruptions, but these will be outside of	<b>Phil</b>

Item	Action
business hours. Phil to follow up with Dean for the programme	
<p><b>5 Site Works</b></p> <ul style="list-style-type: none"> <li>■ Water mains have held the project back for approx. 6-7 days</li> <li>■ Paving will be laid only up to the transformer before the break due to work still being done on the power cables</li> <li>■ FH to include programme time for pavement options and money by close of business 31/10/18</li> <li>■ FH to provide DCC with a methodology of lid alterations for St Andrews St intersection</li> </ul>	<p><b>Note</b></p> <p><b>Note</b></p> <p><b>FH</b></p> <p><b>PR</b></p>
<p><b>6 Contractor Design Requirements</b></p> <ul style="list-style-type: none"> <li>■ Drainage measures required to prevent significant flooding during closedown</li> <li>■ Beca to confirm the concrete depth for the concrete pavement option</li> </ul>	<p><b>PM</b></p> <p><b>Beca</b></p>
<p><b>7 Contractor's Report</b></p> <ul style="list-style-type: none"> <li>■ Not discussed</li> </ul>	<p><b>Note</b></p>
<p><b>8 Other Business</b></p> <ul style="list-style-type: none"> <li>■ ORC will pay for Aurora's futureproofing duct on Gt King St between Moray Place and St Andrews St running under the carriageway. <ul style="list-style-type: none"> <li>– \$2k for ducting along stretch where ducting was always planned</li> <li>– \$6k for ducting additional stretch</li> </ul> </li> <li>■ Pete to confirm methodology for lid alterations. Will is happy to keep the existing covers or swap for new if they are in bad condition. Need to check on supply</li> <li>■ DCC want to see proof that fittings used in water main connections were new or price deduction for second hand fittings <ul style="list-style-type: none"> <li>– Phil to find photos of fitting installations</li> </ul> </li> <li>■ Beca to give ORC plan of temporary closure by close of business today</li> <li>■ Beca to solve SW issue on west side during the temporary shutdown</li> <li>■ FH to do survey of kerb and cobble pavers pre and post shut down to record any damage occurs during the shut</li> <li>■ A communication session with media will be organised prior to Friday 2<sup>nd</sup> November's meeting</li> </ul>	<p><b>Note</b></p> <p><b>Note</b></p> <p><b>Note</b></p> <p><b>Phil</b></p> <p><b>Note</b></p> <p><b>Phil</b></p> <p><b>Beca</b></p> <p><b>Beca</b></p> <p><b>FH</b></p> <p><b>Note</b></p>

Minuted by TW/PM

**From:** [Philip Morrison](#)  
**To:** [William Clifford](#) ; [STEVENS, Warren](#); [SCOTT, Dean](#);  
[x@x](#)  
**Cc:** [James Taylor](#); [Derek Walsh](#); [Gerard Collings](#)  
**Subject:** Bus Hub Watermain - Remaining Works - Meeting Notes 19-10-2018  
**Date:** Friday, 19 October 2018 2:31:38 p.m.  
**Attachments:** [image007.png](#)  
[image002.png](#)  
[image004.png](#)  
[image006.png](#)

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Hi all,

My notes from the meeting this morning (and subsequent site visit): Please get in touch asap if anything needs adding or editing. Tim – can you please forward to Richie and advise his email address?

**Discussion of learnings identified regarding the WM connection and decommission works at the St Andrew St/Gt King St intersection, including:**

- Unclear who was ultimately in charge
- Some excavation work not complete in readiness for works caused some delays and confusion
- Insufficient equipment on site that lead to inability to complete tasks efficiently
- Insufficient stock of required fittings on site (some due to lateness of trenching work to confirm fittings requirements)
- Timing of some works and unclear communication structure.

**Agreement for remainder of works is that:**

- One person from Fulton Hogan (Warren Stevens) is to be site lead
- CityCare and FH to meet on site at least 24hrs in advance of each connection to ensure that pre-works have been completed or are in hand and that all equipment and fittings required are confirmed and available
- All works are to be planned and agreed regarding dates and times so that shutdowns can be clearly communicated to all parties
- Beca (Philip) be the communications conduit from FH (as lead) to DCC and ORC (as Asset Owner and Principal)
- Beca will provide updated drawings that capture any known changes to works and additional supply connections (Exeloo and Kiosk) prior to works proceeding

**Connection of DN180 PE to existing DN150 CI (Moray Place)**

- Following site visit, hydrant location likely to be within footpath area, not in carriageway as previously discussed
- Solution to be sketched by Warren following site measurement
- Beca to update dwgs

**Other works:**

- New connections from DN180 PE to be provided to Community House. **Action: CityCare (Richie) to confirm live connection location to Beca.**
- The DN100 CI main will be completed last, once all other WM works finished
- The DN180 PE (at Farmers stormwater clash) should have a Tee and blanking plate (with temporary valve for test requirements) or, preferably, a Hydrant if room permits. **Action: FH (Warren) to confirm.**
- Another programming meeting will be held at ORC Offices, 10:00-11:00am 26 October to discuss and programme remaining works (other than DN180 connection) **Action: Beca (Philip) to arrange and confirm.**

Existing MH and service covers in intersections **Action: DCC (Will) to confirm whether existing covers are to be adjusted or new covers to be fitted**

**Forward Programme:**

Item	Date	Personnel	Shutdown Required	Actions	Comments
Testing/disinfecting of DN180 PE main	Week of 22-26 October	FH to arrange, KB Contracting to perform	No		
Connection of DN180 PE main to existing DN150 CI (Moray Place)	Thurs 25 Oct 5:00am-12 midday	FH, CityCare	Yes – 5am to 7am	<ul style="list-style-type: none"> <li>• Following site measure, <b>FH (Pete)</b> to supply Beca with sketch of connection layout to update dwg <b>by c.o.b. 19/10/18</b></li> <li>• <b>Beca (Philip)</b> to provide updated dwgs <b>by c.o.b. 23/10/18</b></li> <li>• FH to notify Delta of work area</li> <li>• <b>FH (Pete)</b> to notify affected consumers of Shutdown in Moray Place (incl NZME building – <b>Fire Supply Disruption</b>) <b>by c.o.b. 23/10/18</b></li> <li>• FH to excavate and contact CityCare (Richie) for pre-work inspection <b>23 or 24/10/18</b></li> </ul>	

Thanks all,

**Philip Morrison**  
Engineering Technologist  
Beca



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**From:** [Derek Walsh](#)  
**To:** [REID, Peter](#); [xxxxxx.xxxxxxxx@xxxxxxxxxxx.xx](#); [SUTHERLAND, Alex](#)  
**Subject:** Fw: Bus Hub - 2019 Construction  
**Date:** Thursday, 15 November 2018 4:46:50 p.m.  
**Attachments:** [image30fefd.PNG](#)  
[imaged89f39.PNG](#)

---

Hi Guys,

Can you confirm when Farmers CP entrance will be finished and open?

Cheers  
-Derek

---

**From:** Stephen Pont <[xxxxxx@xxxxxxxxxxxxxxxx.xx.xx](mailto:xxxxxx@xxxxxxxxxxxxxxxx.xx.xx)>  
**Sent:** 15 November 2018 16:25:46  
**To:** Derek Walsh  
**Subject:** RE: Bus Hub - 2019 Construction

Hi Derek

Sorry I was not able to make it to the meeting yesterday.

Can you please confirm when our Farmers entrance will be able to use again as the date keeps been pushed back. I am meeting Allan from Fulton Hogan on site tomorrow to confirm the plan to getting our entry back.

Will Farmers entry be affected with the close down over Christmas or should it be pretty clear?

Thanks for your assistance.

Kind Regards

**Stephen Pont**  
Operations Manager



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New Zealand

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**M** +64 27 206 5024  
**E** [xxxxxx.xxxx@xxxxxxxxxxxxxxxx.xx.xx](mailto:xxxxxx.xxxx@xxxxxxxxxxxxxxxx.xx.xx)  
**W** [www.wilsonparking.co.nz](http://www.wilsonparking.co.nz)



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**From:** Derek Walsh <xxxxx.xxxxx@xxx.xxxx.xx>  
**Sent:** Thursday, 15 November 2018 4:18 PM  
**To:** Derek Walsh <xxxxx.xxxxx@xxx.xxxx.xx>  
**Subject:** Bus Hub - 2019 Construction

Dear all,

Thank you to everyone who took the time out of their day to attend the bus hub update on Wednesday. We apologise for any inconvenience caused by the cancellation of the previous meeting, we wanted to wait until we were in a position to confirm construction staging and key dates for next year.

Key items discussed were:

- Christmas Shutdown - We are currently on track to leave the site around the end of November, with light pole installation (localised impact only) during the first week of December.
- 2019 Construction timescales – We will be back on site on the 7<sup>th</sup> January and anticipate completing construction by the end of February. Construction activities will be undertaken 6 days per week, night and day.
- 2019 Construction staging
  - To minimise the construction period, we will need to close Great King Street to through traffic during carriageway construction. We will close half of the street at a time, initially from the Police Station to St Andrew Street and then from the Police Station to Moray Place. Each of these closures is expected to last for up to 3 weeks. Access to Wilsons parking (Farmers car park) will be available at all times.
  - Fulton Hogan will provide additional details through their weekly updates and on-site discussions in the new year.
- 2019 Progress tracking - We will provide fortnightly updates on our progress in 2019.

Regards

Derek Walsh  
Project Manager  
021 646 709



T/A Branson's  
(03) 4772029

On Wed, Nov 21, 2018 at 10:29 AM Derek Walsh <[xxxxx.xxxxx@xxx.xxxx.xx](mailto:xxxxx.xxxxx@xxx.xxxx.xx)> wrote:

Hi Stephen,

Apologies for the delay, please see responses below in red:

**From:** Metro South <[REDACTED]>

**Sent:** Friday, 16 November 2018 12:51 p.m.

**To:** Derek Walsh <[xxxxx.xxxxx@xxx.xxxx.xx](mailto:xxxxx.xxxxx@xxx.xxxx.xx)>

**Cc:** [REDACTED]

**Subject:** Re: Bus Hub - November 2018 Construction. St Andrew st, Great King St. Bransons Bar

Good afternoon Derek,

Thank you for the update. We do understand some of the issues that have come up during construction of the bus hub.

As you are the Project Manager and we do not have any other contact person to correspond with. There are some important issues that we would like to bring to your attention for discussion.

1/ Could you please confirm that the corner of St Andrew St and Great King St paving works will be completed by the end of November. Our turnover has dropped on average 65% over the past four weeks. This has caused major financial issues for our business. Could you also please let us know why the contractors have let this area sit for three weeks, but have still not started to lay any pavers. The blocked off entry to our bar with temporary fencing all around us is causing major issues for our regular patrons. **Our intention was to start the paving from St Andrews street outside your premises, but we had to put this on hold due to on-going water main issues and an issue raise by DCC regarding the alignment of the traffic signal poles. As a result, we started part way along Great King Street so that we could keep things moving while these issues were resolved. The good news is we have dealt with the water main, the traffic signal pole was moved yesterday, DCC signed off on the revised location this morning and it has now been concreted in place. One the concrete is set enough, we can rebuild the ground and crack on with the paving. We expect to complete the paving outside your premises by the end of November. Worst case (weather) we will provide a temporary asphalt seal for the Christmas period and complete the paving next year.**

2/ The Bus Hub Contractors are using our water on a daily basis via our outside tap. This water use is for works carried out for the Bus Hub construction. Could you please let us know how we will be compensated for this water use. As you know we are struggling with very low turnover and every saving on our part counts. **I have spoken to FH about this and they have re-iterated instructions to their sub contractors not to use your tap. I understand that a new sub-contractor crew arrived on site around 2 weeks ago and were not given this message. In terms of compensation, FH estimate water use to be around 40l per day, over a 10 day period (~400l).**

Based on DCC charges of \$1.60 per m<sup>3</sup> (~1000L) the value of this water use would be around \$0.80. Obviously we're happy to pay this if required!

3/ We would also like it noted that the Bus Hub Contractors, during Construction work activities, have made a mess on the outside of the building. The windows are very dirty as well. Our outside smoking area has to be constantly cleaned due to the mess from construction works. We would like to request that the Bus Hub Contractors be made aware of these issues and they will complete cleaning works at their cost to bring the building back to the clean state it was in before Bus Hub works began back in July. **FH have confirmed that they will give the outside of the building a clean up and will sweep up the smoking area before we shut-down for Christmas.**

4/ Due to the long delay in Bus Hub works, including getting the pavers installed, grit and dust has been constantly coming into the bar area. This has caused major wearing of our timber floors. We would like to have a meeting at the bar to discuss these floor issues. We would also like to have a plan put in place to bring the floors back to their original state before the Bus Hub works began. We believe this is a fair and reasonable request. **Happy to meet to discuss. My boss (Gerard) is on leave at the moment, can we schedule something in for the first week of December?**

Thanks  
-Derek

Thanks for your time in reading our concerns.

Stephen Smith  
Director  
Metro South Limited  
T/A Branson's  
(03) 4772029

On Thu, Nov 15, 2018 at 4:18 PM Derek Walsh <[xxxxx.xxxxx@xxx.xxxx.xx](mailto:xxxxx.xxxxx@xxx.xxxx.xx)> wrote:

Dear all,

Thank you to everyone who took the time out of their day to attend the bus hub update on Wednesday. We apologise for any inconvenience caused by the cancellation of the previous meeting, we wanted to wait until we were in a position to confirm construction staging and key dates for next year.

Key items discussed were:

- Christmas Shutdown - We are currently on track to leave the site around the end of November, with light pole installation (localised impact only) during the first week of December.

2019 Construction timescales – We will be back on site on the 7 January and anticipate completing construction by the end of February. Construction activities will be undertaken 6 days per week, night and day.

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  - Fulton Hogan will provide additional details through their weekly updates and on-site discussions in the new year.
  
- 2019 Progress tracking - We will provide fortnightly updates on our progress in 2019.

Regards

Derek Walsh  
Project Manager  
021 646 709

**From:** [Derek Walsh](#)  
**To:** [Philip Morrison](#)  
**Subject:** FW: Bus Hub Construction Delay - Follow up Meeting #2  
**Date:** Friday, 9 November 2018 1:12:00 p.m.

---

Hi Philip,

Please see below from Community House.

Alex confirmed that FH should have built the retaining wall prior to xmas shutdown so I think all of these should be achievable, pending confirmation of car park entrance / Moray Place disruption question.

Please can you instruct FH to make sure these things happen (subject to above)?

-Derek

**From:** Dunedin Community House <xxxx@xxx.xxx.xx>  
**Sent:** Friday, 9 November 2018 8:31 a.m.  
**To:** Derek Walsh <xxxxx.xxxxx@xxx.xxx.xx>  
**Cc:** Julie Butler - Alzheimers <xxxxxxx@xxxxxxxxxxxxxxxx.xxx.xx>; Debbie Webster <xxxxxxx@xxxxxxxxxxxxxxxx.xx.xx>; Annette Harrex <xxxxxxx@xxxxxxxxxxxxxxxx.xxx.nz>; Lesley Paris <xxxxxxx@xxx.xxx.xx>; Heather Wilson <[REDACTED]>  
**Subject:** Re: Bus Hub Construction Delay - Follow up Meeting #2

Hi Derek

I managed to write but not send this email...

Your notes from the last meeting don't mention that there will be a clear pedestrian crossing at the entrance to Great King Street, this wasn't shown on the plan but requested by Gerard.

We've a few outstanding things and it would be good to know they'll be addressed before the shutdown.

1. Getting Car park 3 back - currently half of it is waiting to have a retaining wall built, it is showing on the schedule for next week but we would like to know it will or won't be done.
2. Moving the sign for the accessible parking spot. We need this done pre shutdown.
3. Fixing the car park entrance to stop the scraping. We need this done pre shutdown.
4. Removing bollard in DCH car park. Pre or post is fine.

We have had a feedback request from DCC on parking provisions post hub.

Thanks  
Rob

Dunedin Community House  
03 471 6150  
[dch.org.nz](http://dch.org.nz)





On Tue, 6 Nov 2018 at 17:02, Derek Walsh <[xxxxx.xxxxx@xxx.xxxx.xx](mailto:xxxxx.xxxxx@xxx.xxxx.xx)> wrote:

Dear all,

Thank you to everyone who took the time out of their day to attend the follow-up bus hub update meeting last Friday.

Following on from the meeting the previous week we committed to winding down construction around the end of November and commencing again in January.

For those that were unable to attend some of the things discussed included:

1. The need to have quarry dust ramps across the entrance of Countdown and Police Station due to the differing heights (similar to the ramp that is currently in place for vehicle access to Farmers car park).
2. Fulton Hogan to complete daily site inspections during the construction close down period, including sweeping any areas that may need it and maintaining ramps, fencing and signage.
3. Parking – we are working to make as many parks available on the street as possible with most being P60 and a few P5 spots.
4. There will still be cones onsite in some areas.
5. There may be a need to continue the limited speed limit onsite during the break in construction. FH will decide on this once the street is cleared and based on safety.

As mentioned we have arranged for a follow up meeting again this Friday at 8am to provide further details in respects to the program and more defined schedule of works.

We look forward to welcoming you again to Philip Laing House, level 2, 144 Rattray Street, Dunedin at 8am this Friday 9<sup>th</sup> November.

It would be helpful if you could please confirm your attendance by way of email reply.

Derek Walsh  
Project Manager  
021 646 709

**From:** [Philip Morrison](#)  
**To:** [Derek Walsh](#); [Gerard Collings](#)  
**Cc:** [James Taylor](#); [Tom Wager](#)  
**Subject:** FW: Bus Hub Shutdown Items to Price  
**Date:** Thursday, 1 November 2018 1:41:08 p.m.  
**Attachments:** [image007.png](#)

Hi Derek, Gerard,

Please see below costs provided by FH for shutdown.

We've requested further breakdown/detail of the two big-ticket items (AC sealing – area to be sealed; Disestablishment/re-establishment – list of items this covers).

Please provide any other comment, or questions you have.

NB Pete has priced the most expensive option for dealing with stormwater, and price is for EACH catchpit/crossing – worst case would be three of these. I have a query in with our pavement designer as to risk of allowing water to continue to seep into subgrade. I also have Andrew lined up Monday to model the likely water depth we're dealing with.

Cheers,  
Philip

**From:** REID, Peter <xxxxx.xxxx@xxxxxxxxxxxxx.xxx>  
**Sent:** Wednesday, 31 October 2018 6:35 p.m.  
**To:** Philip Morrison <xxxxxx.xxxxxxxx@xxxx.xxx>  
**Cc:** SUTHERLAND, Alex <xxxx.xxxxxxxx@xxxxxxxxxxxxx.xxx>  
**Subject:** RE: Bus Hub Shutdown Items to Price

Hi Philip,

Estimated shut down costs based on talks today and what's in your Email below.

AC topping of all Trafficable Trenches	\$65,991.70	Final design to be confirmed
Dusting of Countdown, Police and mid-block crossings	\$2,471.00	Includes removal
Temporary fencing of no-go areas – at least 150 lineal metres of fence	\$2,100.00	
Roadmarking of parking spaces	\$1,200.00	
Temporary signage for parking	\$1,810.00	
Potentially installation of safe-hits in some areas	\$1,820.00	Water filled barriers
Maintenance of TMP including sweeping carriageway and footpaths as required	\$9,800.00	Includes TC Management over the break
Removal of standing stormwater in kerbs on west side – weekly sucker truck, maybe?		Not required
Small Mudtanks, 100mm PVC Pipe across the road, smash hole through the new mudtanks to take the pipe, asphalt over each trench	\$4,229.04	Each across the road connection May need to be adjusted depending on the final length of pipe required
Continued Office Rental	\$0.00	

Disestablishment/Re-establishment	\$39,680.30	Still being fine-tuned

I can't think of anything else at this stage.

Pete

**Pete Reid** | Project Manager | **Fulton Hogan Ltd** | 11 Main Road, Fairfield | Private bag 1962, Dunedin, 9054, New Zealand | Mobile +64 27 208 4854 | Web [www.fultonhogan.com](http://www.fultonhogan.com)

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**From:** Philip Morrison <[xxxxxx.xxxxxxxx@xxxx.xxx](mailto:xxxxxx.xxxxxxxx@xxxx.xxx)>  
**Sent:** Tuesday, 30 October 2018 8:19 PM  
**To:** REID, Peter <[xxxxx.xxxx@xxxxxxxxxxxxxxx.xxx](mailto:xxxxx.xxxx@xxxxxxxxxxxxxxx.xxx)>  
**Cc:** SUTHERLAND, Alex <[xxxx.xxxxxxxx@xxxxxxxxxxxxxxx.xxx](mailto:xxxx.xxxxxxxx@xxxxxxxxxxxxxxx.xxx)>; James Taylor <[xxxxxx.xxxxxx@xxxx.xxx](mailto:xxxxxx.xxxxxx@xxxx.xxx)>; Derek Walsh <[xxxxxx.xxxxxx@xxx.xxxx.xx](mailto:xxxxxx.xxxxxx@xxx.xxxx.xx)>  
**Subject:** Bus Hub Shutdown Items to Price

Hi Pete,

Sorry, we haven't completed the parking plan yet, being done by our transport guys in Christchurch.

If it's any use to you, from my site walkaround on Fri I reckon there's about 75 lineal metres of kerb on the east side of Gt King that has too great level difference to provide any ped or vehicle access, so would be fenced off so wouldn't require temporary sealing. At say 1.2m width that's about 90m<sup>2</sup> saved. Not a huge amount in the scheme of things...

This includes the Countdown, mid-block crossing and Police accessways. We'll have to provide dust over these so they can be used, unless there's something better that would require less maintenance?

I'd hope that by c.o.b. tomorrow we can give you a parking plan that'll help quantify a lot of the following and enable you to price up the shutdown items for ORC.

A quick list of minimum things required are:

- AC topping of all trafficable trenches
- Dusting of Countdown, Police and mid-block crossings
- Temporary fencing of no-go areas – at least 150 lineal metres of fence
- Roadmarking of parking spaces
- Temporary signage for parking
- Potentially installation of safe-hits in some areas
- Maintenance of TMP including sweeping carriageway and footpaths as required
- Removal of standing stormwater in kerbs on west side – weekly sucker truck, maybe?
- Disestablishment/Re-establishment - \$32,680.30 9 (Still being fine-tuned)

Speak tomorrow.

Cheers,  
Philip

**Philip Morrison**

Engineering Technologist

Beca

Phone: +64 3 477 4202 Fax: 0800 578 967

DDI: +64 3 951 2393

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**From:** [Derek Walsh](#)  
**To:** ["Philip Morrison"](#); ["SUTHERLAND, Alex"](#)  
**Subject:** Initial Site walkover

---

Initial pre-shutdown site check over.

**From:** [Philip Morrison](#)  
**To:** [Derek Walsh](#); [REID, Peter](#); [SUTHERLAND, Alex](#)  
**Subject:** RE: Bus Hub Construction Delay - Follow up Meeting #2  
**Date:** Friday, 9 November 2018 1:20:30 p.m.

---

Hi All,

Pete, Alex, see below email from Dunedin Community House with four items highlighted, three of which need to happen prior to the shutdown.

Alex, as discussed, can you please confirm how the accessway scraping remedial work can be fitted in, bearing in mind that:

- Work required is constructing concrete channel crossing by retro-fitting to existing drop crossing, then sawcutting, excavating and reinstating AC surfacing to footpath and carriageway (approx. 1.5m from kerb)
- Work cannot involve closure of the access during business hours
- Work cannot involve traffic management that limits parking during business hours.

Please also confirm timeframe for completing remaining items.

Cheers,  
Philip

---

**From:** Derek Walsh <xxxxx.xxxxx@xxx.xxx.xx>  
**Sent:** Friday, 9 November 2018 1:12 p.m.  
**To:** Philip Morrison <xxxxxx.xxxxxxxx@xxx.xxx>  
**Subject:** FW: Bus Hub Construction Delay - Follow up Meeting #2

Hi Philip,

Please see below from Community House.

Alex confirmed that FH should have built the retaining wall prior to xmas shutdown so I think all of these should be achievable, pending confirmation of car park entrance / Moray Place disruption question.

Please can you instruct FH to make sure these things happen (subject to above)?

-Derek

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**Sent:** Friday, 9 November 2018 8:31 a.m.  
**To:** Derek Walsh <xxxxx.xxxxx@xxx.xxx.xx>  
**Cc:** Julie Butler - Alzheimers <xxxxxxx@xxxxxxxxxxxxxxxxxxx.xxx.xx>; Debbie Webster <xxxxxxx@xxxxxxxxxxxxxxxxxxx.xx.xx>; Annette Harrex <xxxxxxx@xxxxxxxxxxxxxxxxxxx.nz>; Lesley Paris <xxxxxxx@xxx.xxx.xx>; Heather Wilson <[REDACTED]>  
**Subject:** Re: Bus Hub Construction Delay - Follow up Meeting #2

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4. Removing bollard in DCH car park. Pre or post is fine.

We have had a feedback request from DCC on parking provisions post hub.

Thanks  
Rob

Dunedin Community House  
03 471 6150  
[dch.org.nz](http://dch.org.nz)



On Tue, 6 Nov 2018 at 17:02, Derek Walsh <[xxxxx.xxxxx@xxx.xxxx.xx](mailto:xxxxx.xxxxx@xxx.xxxx.xx)> wrote:

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3. Parking – we are working to make as many parks available on the street as possible with most being P60 and a few P5 spots.
4. There will still be cones onsite in some areas.



5. There may be a need to continue the limited speed limit onsite during the break in construction. FH will decide on this once the street is cleared and based on safety.

As mentioned we have arranged for a follow up meeting again this Friday at 8am to provide further details in respects to the program and more defined schedule of works.

We look forward to welcoming you again to Philip Laing House, level 2, 144 Rattray Street, Dunedin at 8am this Friday 9<sup>th</sup> November.

It would be helpful if you could please confirm your attendance by way of email reply.

Derek Walsh  
Project Manager  
021 646 709

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**From:** [Philip Morrison](#)  
**To:** [Derek Walsh](#)  
**Subject:** RE: Bus Hub  
**Date:** Monday, 19 November 2018 3:14:58 p.m.

---

Hi Derek, as **below**

---

**From:** Derek Walsh <~~x@x~~>  
**Sent:** Monday, 19 November 2018 2:40 p.m.  
**To:** Philip Morrison <~~x@x~~>  
**Subject:** Bus Hub

Hi Philip,

Couple of things we discussed, plus a couple more:

1. Light poles power / cabling – Looking for Beca to confirm acceptance of proposed Aotea solution for temporary shutdown; **James will ring re: this**
2. Wed meetings – can't be at ORC **No problem, have booted some people out of our 3<sup>rd</sup> meeting room**
3. Programme meeting: does 2pm Tuesday work for you? **Yep, where's it to be?**
4. 2019 construction – parking. Can you knock up a sketch showing just the centre line marked on the asphalt between St Andrews Street and the Police for discussion with DCC. **OK, will do**
5. Am happy with the FH claim. **Good, will get the final Payment Cert done and get Murray to sign on Wed**
6. Please can you send me a photocopy of the site notes – I'll start to collate the numbers. **Done**

Derek Walsh  
Project Manager  
021 646 709

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**From:** [James Taylor](#)  
**To:** [Philip Morrison](#); [Derek Walsh](#)  
**Subject:** RE: Great King Street Bus Hub - MEETING NOTES 26.10.2018  
**Date:** Wednesday, 31 October 2018 11:01:36 a.m.  
**Attachments:** [image001.png](#)  
[image002.png](#)  
[image003.png](#)

---

Hi Phil,

It was previously agreed to cover the cost of the ducts under the canopy structures only.

JT

---

**From:** Philip Morrison  
**Sent:** Wednesday, 31 October 2018 10:59 a.m.  
**To:** Derek Walsh <[xxxxx.xxxxx@xxx.xxx.xx](mailto:xxxxx.xxxxx@xxx.xxx.xx)>  
**Cc:** James Taylor <[xxxxx.xxxxx@xxx.xxx](mailto:xxxxx.xxxxx@xxx.xxx)>  
**Subject:** RE: Great King Street Bus Hub - MEETING NOTES 26.10.2018

That was my understanding. It's in the contract, I don't know of any agreement that ORC would pass on that cost to Aurora. James?

---

**From:** Derek Walsh <[xxxxx.xxxxx@xxx.xxx.xx](mailto:xxxxx.xxxxx@xxx.xxx.xx)>  
**Sent:** Wednesday, 31 October 2018 10:40 a.m.  
**To:** Philip Morrison <[xxxxxx.xxxxxxx@xxx.xxx](mailto:xxxxxx.xxxxxxx@xxx.xxx)>  
**Subject:** RE: Great King Street Bus Hub - MEETING NOTES 26.10.2018

Did ORC previously agree to cover costs of ducting in footway? I don't recall this at the meeting?

---

**From:** Philip Morrison <[xxxxxx.xxxxxxx@xxx.xxx](mailto:xxxxxx.xxxxxxx@xxx.xxx)>  
**Sent:** Wednesday, 31 October 2018 10:02 a.m.  
**To:** Siala Ah Mu <[xxxxxx.xxxxx@xxxxxxxxxxxx.xx.xx](mailto:xxxxxx.xxxxx@xxxxxxxxxxxx.xx.xx)>; Derek Walsh <[xxxxx.xxxxx@xxx.xxx.xx](mailto:xxxxx.xxxxx@xxx.xxx.xx)>; SUTHERLAND, Alex <[xxxx.xxxxxxxx@xxxxxxxxxxxx.xx](mailto:xxxx.xxxxxxxx@xxxxxxxxxxxx.xx)>; Tom Wager <[xxx.xxxxx@xxx.xxx](mailto:xxx.xxxxx@xxx.xxx)>  
**Cc:** Simon Wilson <[xxxxx.xxxxx@xxxxxxxxxxxx.xx.xx](mailto:xxxxx.xxxxx@xxxxxxxxxxxx.xx.xx)>; Scot Jefferies <[xxxx.xxxxxxxx@xxxxxxxxxxxx.xx.xx](mailto:xxxx.xxxxxxxx@xxxxxxxxxxxx.xx.xx)>  
**Subject:** RE: Great King Street Bus Hub - MEETING NOTES 26.10.2018

Thanks Siala,

FYI all, my notes from Friday's meeting: Let me know if anything needs correcting/clarifying.

- Aurora re-iterated no plans for replacement of cabling through Gt King
- Should cable damage be caused by Bus Hub works, localised repairs will be possible
- Beca to instruct FH that additional Aurora 'future-proof' 4x100 ducting is to be installed within the Gt King St carriageway, not the footpath
- At this stage, the length of additional ducting remains as previously agreed – i.e. extent of new canopy concrete slabs and Farmers accessway plus 1m either end, (shifted to carriageway)
  - Cost covered by ORC, included in Contract
  - Configuration of additional ducting adjacent to transformer to be space-dependent, determined once excavation completed in this area
- Further option of installing additional ducting for entire length of Gt King between Moray and St Andrews intersections
  - Beca to clarify trench detail and length, FH to provide price to ORC and Aurora to inform decision

- Aurora confirmed HV supply from Moray to transformer and from transformer to St Andrews is able to be isolated separately (but not concurrently) for future works
- Testing of cabling shall be done by Aurora prior to basing-up of footpaths. FH to liaise with Aurora to arrange this.
- ORC have fielded complaints from Gt King St businesses re: lack of notice of power shutdown 25.10.2018
  - Aurora believed all were contacted by phone, will investigate and provide answer to ORC
- H&S (cable exposure) incident – Aurora and FH conducting internal investigations, Beca to clarify level of involvement in investigations
- Siala awaiting three connection applications from Aotea – FH to chase Seth
- Aurora question whether Transformer is to be screened from view – Philip to contact Beca landscape team – screen should preferably be non-conducting

Cheers,  
Philip

---

**From:** Siala Ah Mu <[xxxxx.xxxxx@xxxxxxxxxxxxxx.xx.xx](mailto:xxxxx.xxxxx@xxxxxxxxxxxxxx.xx.xx)>  
**Sent:** Tuesday, 30 October 2018 6:21 p.m.  
**To:** Derek Walsh <[xxxxx.xxxxx@xxx.xxx.xx](mailto:xxxxx.xxxxx@xxx.xxx.xx)>; SUTHERLAND, Alex <[xxxx.xxxxxxxxx@xxxxxxxxxxxxxxx](mailto:xxxx.xxxxxxxxx@xxxxxxxxxxxxxxx)>; Philip Morrison <[xxxxxx.xxxxxxx@xxxx.xxx](mailto:xxxxxx.xxxxxxx@xxxx.xxx)>  
**Cc:** Simon Wilson <[xxxxx.xxxxxx@xxxxxxxxxxxxxx.xx.xx](mailto:xxxxx.xxxxxx@xxxxxxxxxxxxxx.xx.xx)>; Scot Jefferies <[xxxx.xxxxxxxxx@xxxxxxxxxxxxxx.xx](mailto:xxxx.xxxxxxxxx@xxxxxxxxxxxxxx.xx)>  
**Subject:** RE: Great King Street Bus Hub

Gents,

Just following up on the actions from our meeting last Friday.

- **Derek** to find out whether the ducts in the road can be extended towards St Andrew St and Moray Pl
- **Philip** to find out from the landscaping people an idea to beautify (for the lack of better words) the TX between the two canopies
- **Alex** to follow up with Aotea on the 3 applications Aurora is still waiting for

The first action plays a critical role in the situation we're trying to resolve regarding the fault on the LV cable.

I would appreciate it if you could follow up on these and let me know.

Cheers,

**SIALA AH-MU**  
PROJECT MANAGER



**EMAIL** [xxxxx.xxxxx@xxxxxxxxxxxxxx.xx.xx](mailto:xxxxx.xxxxx@xxxxxxxxxxxxxx.xx.xx)  
**MOB** 027 6087173  
**PH** 0800 22 00 05 **WEB** [www.auroraenergy.co.nz](http://www.auroraenergy.co.nz)  
 Aurora Energy, 10 Halsey Street, Dunedin 9016  
 PO Box 5140, Dunedin 9058



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**From:** Derek Walsh [<mailto:xxxxx.xxxxx@xxx.xxxx.xx>]

**Sent:** Thursday, 25 October 2018 2:47 PM

**To:** Simon Wilson <[xxxxx.xxxxx@xxxxxxxxxxxx.xx.xx](mailto:xxxxx.xxxxx@xxxxxxxxxxxx.xx.xx)>; Siala Ah Mu <[xxxxx.xxxxx@xxxxxxxxxxxx.xx.xx](mailto:xxxxx.xxxxx@xxxxxxxxxxxx.xx.xx)>;

Philip Morrison <[xxxxxx.xxxxxxxx@xxxx.xxx](mailto:xxxxxx.xxxxxxxx@xxxx.xxx)>

**Subject:** Great King Street Bus Hub

**Security Alert:** This is an external email. Please take caution when opening any links or attachments.

\*\*\*\*\*

Hi Simon & Siala,

Would you be available for a quick meeting / Skype tomorrow to discuss the LV and HV cables that Fulton Hogan are currently working around? We need to get a quick resolution on the way forward (pavers are going down from tomorrow morning). I have provided as much as I can below in terms of context to ensure that you are able to come prepared and that decisions can be made. Feel free to forward this invitation to others within Aurora/Delta should this be necessary.

Fulton Hogan are having some difficulty working around existing LV and HV cables in Great King Street at present. We have had a near electrocution miss in the last couple of days so they are understandably nervous and I understand that Aurora / Delta are currently working to isolate cabling so work can progress safely.

FH advise us that the cables are ancient and in poor condition, they are not currently in conduits and are in some areas encased in concrete that FH will have to break through. We are concerned that the cables could be damaged during construction, or fail at some point afterwards, either as a result of general age related deterioration or increased deterioration resulting from exposure.

Key things that we would like to discuss include:

1. Should the cables be replaced now to avoid future issues?
2. Could conduits for any future replacements be laid in the carriageway rather than under the footway? – We are less spatially constrained in the carriageway and the programme impact of putting conduit here would be substantially less.

**Does 11:30 suit for a meeting?**

Regards

-Derek

Derek Walsh  
Project Manager  
021 646 709

Derek Walsh  
Project Manager  
021 646 709

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**From:** [Philip Morrison](#)  
**To:** [Derek Walsh](#)  
**Subject:** RE: Programme  
**Date:** Thursday, 8 November 2018 10:04:11 a.m.  
**Attachments:** [ORC Bus Hub Programme Revised Staging V7 September 2018.pdf](#)

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Here we are...

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**From:** Derek Walsh <xxxxx.xxxxx@xxx.xxx.xx>  
**Sent:** Thursday, 8 November 2018 9:42 a.m.  
**To:** Philip Morrison <xxxxxx.xxxxxxx@xxx.xxx>  
**Subject:** Programme

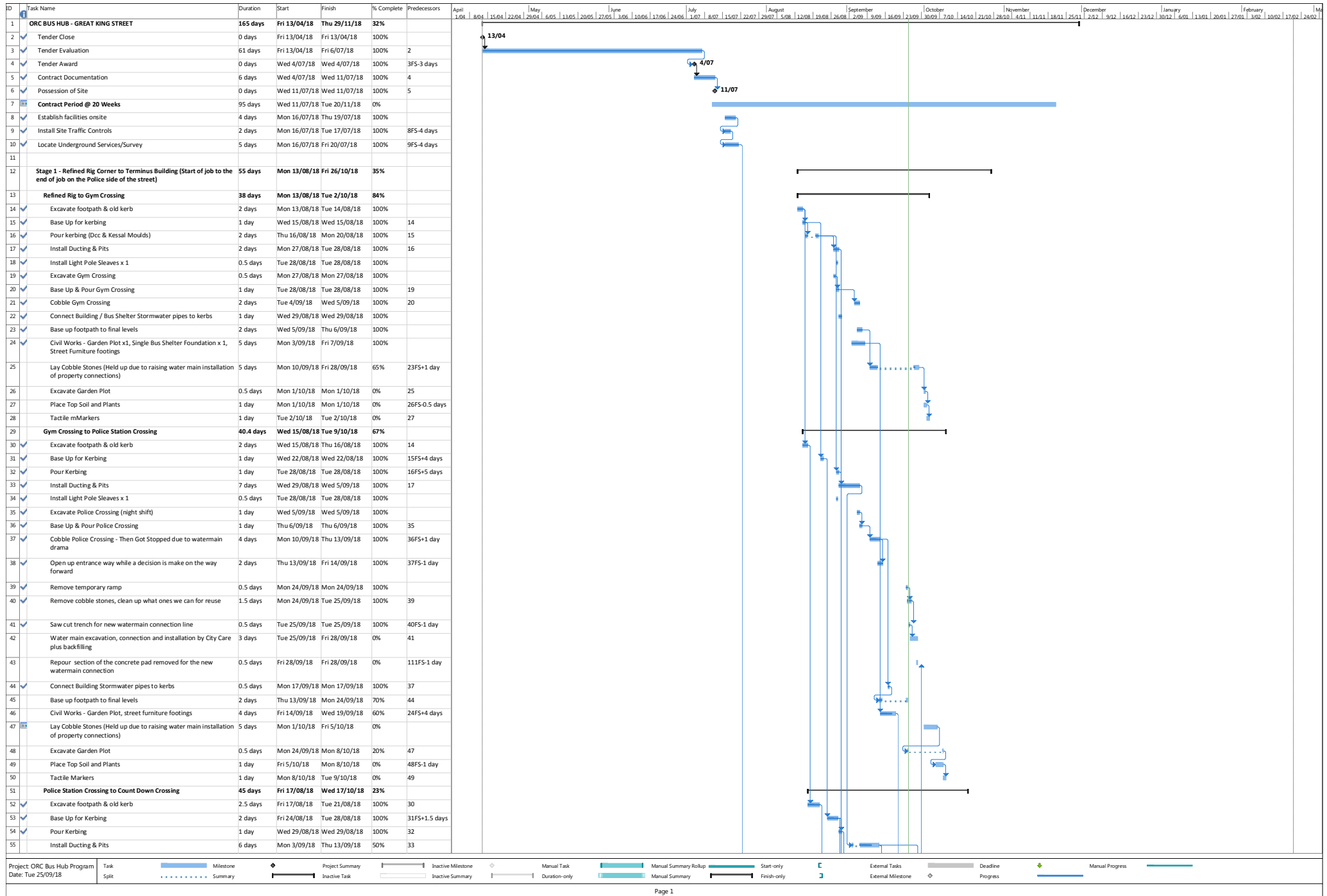
Hi Philip,

Please can you send me (in PDF) the most recent FH programme, prior to the xmas shutdown programme?

Thanks  
-Derek

Derek Walsh  
Project Manager  
021 646 709

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ID	Task Name	Duration	Start	Finish	% Complete	Predecessors	April	May	June	July	August	September	October	November	December	January	February	March
56	Install Light Pole Sleeves x 2	1 day	Thu 13/09/18	Fri 14/09/18	100%	55												
57	Excavate Count Down Crossing (night Shift)	1 day	Wed 12/09/18	Wed 12/09/18	100%													
58	Base Up & Pour Count Down Crossing	1 day	Thu 13/09/18	Thu 13/09/18	100%	57												
59	Cobble Count Down Crossing	7 days	Mon 24/09/18	Tue 2/10/18	0%	58FS+1 day												
60	Remove temporary vehicle crossing	1 day	Wed 3/10/18	Wed 3/10/18	0%	59												
61	Connect up missing section of kerb	1 day	Thu 4/10/18	Thu 4/10/18	0%	60												
62	Reinstate and enlarge Countdown garden plot foot pring and parking area as per the agreed plan.	4 days	Fri 5/10/18	Wed 10/10/18	0%	61												
63	Civil Works - Garden Plot, Double Bus Shelter Foundation x 1, Street Furniture Footings	12 days	Thu 20/09/18	Mon 8/10/18	0%	46FS+0.5 days												
64	Connect Building / Bus Shelter Stormwater pipes to kerbs	0.5 days	Wed 3/10/18	Wed 3/10/18	0%	59												
65	Base up footpath to final levels	2 days	Mon 3/10/18	Wed 3/10/18	0%	64FS-2 days												
66	Lay Cobble Stones	5 days	Mon 8/10/18	Mon 15/10/18	0%	63												
67	Excavate Garden Plot	0.5 days	Mon 15/10/18	Mon 15/10/18	0%	66												
68	Place Top Soil and Plants	1 day	Mon 15/10/18	Tue 16/10/18	0%	67FS-0.5 days												
69	Tactile markers	1.5 days	Tue 16/10/18	Wed 17/10/18	0%	68												
70	<b>Count Down Crossing to Terminus Building (End of job on that side of the street)</b>	<b>40 days</b>	<b>Tue 21/08/18</b>	<b>Mon 15/10/18</b>	<b>17%</b>													
71	Excavate footpath & old kerb	3 days	Tue 21/08/18	Mon 10/09/18	100%	52												
72	Base Up for Kerbing	3 days	Tue 28/08/18	Tue 11/09/18	100%	53												
73	Pour Kerbing	1.5 days	Thu 30/08/18	Tue 11/09/18	100%	53,54												
74	Install Ducting & Pits	10 days	Thu 13/09/18	Fri 28/09/18	0%	55												
75	Install Light Pole Sleeves x 2	0.5 days	Fri 14/09/18	Fri 14/09/18	100%	73FS+2 days												
76	Civil Works - Garden Plot, Double Bus Shelter Foundation x 1, Street Furniture Footings	6 days	Fri 5/10/18	Mon 15/10/18	0%	63FS-1 day												
77	Connect Building / Bus Shelter Stormwater pipes to kerbs	0.5 days	Mon 17/09/18	Mon 17/09/18	0%	72FS+4 days												
78	Base up footpath to final levels	2 days	Fri 28/09/18	Tue 2/10/18	0%	55,74												
79	Lay Cobble Stones	5 days	Tue 2/10/18	Tue 9/10/18	0%	78												
80	Excavate Garden Plot	0.5 days	Tue 9/10/18	Wed 10/10/18	0%	79												
81	Place Top Soil and Plants	1 day	Tue 9/10/18	Wed 10/10/18	0%	80FS-1 day												
82	Tactile markers	1 day	Wed 10/10/18	Thu 11/10/18	0%	81												
83	Auroas Swtch Gear location move - Delta/FH	12 days	Wed 19/09/18	Thu 4/10/18	0%													
84																		
85	<b>Traffic Signal Works @ St Andrews / GT King Street Intersection (Night Shift)</b>	<b>40 days</b>	<b>Sun 2/09/18</b>	<b>Fri 26/10/18</b>	<b>8%</b>													
86	New Signal Poles and ducting outside Refined Rig	1 day	Sun 2/09/18	Sun 2/09/18	100%													
87	Open up for inspection the Harbour Fish corner and back fill	1 day	Mon 3/09/18	Mon 3/09/18	100%	86												
88	Open up for inspection the Ware's corner and back fill	1 day	Tue 4/09/18	Tue 4/09/18	100%	87												
89	Wait on instructions on how to proceed from Beca	23 days	Wed 5/09/18	Fri 5/10/18	0%	88												
90	Install new signals? And complete ducting work @ Harbour Fish corner and back fill. Downer ITS are coming up with a plan on how to attack the installation of the two new signal poles into this location.	5 days	Mon 8/10/18	Fri 12/10/18	0%	89												
91	Install new signals? And complete ducting work @ Ware's corner and back fill. Downer ITS are coming up with a plan on how to attack the installation of the two new poles into this location.	5 days	Mon 15/10/18	Fri 19/10/18	0%	90												
92	Construct footpath pavement around the new lighth installations ready for asphalt	1 day	Tue 23/10/18	Tue 23/10/18	0%	91												
93	Asphalt reinstatement of the footpath areas	1 day	Wed 24/10/18	Wed 24/10/18	0%	92												
94	Install tactiles markers to the drop crossing as per the plans	2 days	Thu 25/10/18	Fri 26/10/18	0%	93												
95																		
96	<b>Asphalt Work @ St Andrews St/Great King Street (Night Works based on Not doing the Deep Lift Area as planned But allowing for 50mm Tie In's and 50mm Key In's along the kerbs)</b>	<b>11 days</b>	<b>Tue 23/10/18</b>	<b>Tue 6/11/18</b>	<b>0%</b>	<b>91</b>												
97	Mill of entire area with Tie In's and Key In's	2 days	Tue 23/10/18	Wed 24/10/18	0%													
98	Additional profiling to Great King Street leg of the intersection	1 day	Thu 25/10/18	Thu 25/10/18	0%	97												
99	Dig out and backfill the stormwater trenches to allow 150mm of asphalt below milled surface x 2 plus around the new kerb lines	1 day	Thu 25/10/18	Thu 25/10/18	0%	97												
100	Wearing Course Layer over entire extent of intersection work area	2 days	Fri 26/10/18	Mon 29/10/18	0%	98												
101	Line Markings	2 days	Tue 30/10/18	Wed 31/10/18	0%	100												
102	Commission Traffic Lights	4 days	Thu 1/11/18	Tue 6/11/18	0%	101												
103																		
104	<b>Drainage</b>	<b>89 days</b>	<b>Mon 23/07/18</b>	<b>Thu 22/11/18</b>	<b>40%</b>	<b>10</b>												
105	Install new stormwater facilities - Mud Tanks & Laterals / SWCP 9, 10 & 11 (includes the top end of Great King Street)	7 days	Mon 23/07/18	Tue 31/07/18	100%													

Project: ORC Bus Hub Program  
Date: Tue 25/09/18

Task Split  
Milestone  
Summary

Project Summary  
Inactive Task

Inactive Milestone  
Inactive Summary

Manual Task  
Duration-only

Manual Summary Rollup  
Manual Summary

Start-only  
Finish-only

External Tasks  
External Milestone

Deadline  
Progress

Manual Progress

Page 2

ID	Task Name	Duration	Start	Finish	% Complete	Predecessors	April	May	June	July	August	September	October	November	December	January	February	Mar
106	Install new drainage facilities - Mud Tanks & Lateral / SWCP 1 + 2	5 days	Wed 3/08/18	Tue 7/08/18	100%	105												
107	Install new stormwater facilities - Mud Tanks & Laterals / SWCP 3 & 4	5 days	Wed 8/08/18	Tue 14/08/18	100%	106												
108	Install new stormwater facilities - Mud Tanks & Laterals / SWCP 6, 7	7 days	Wed 15/08/18	Thu 23/08/18	100%	107												
109	Community House Entranceway Mudtank relocation and lateral connection	4 days	Fri 24/08/18	Wed 29/08/18	100%	108												
110	Install Raiser Main in front of shops around to St Andrews Street including connections to properties	8 days	Wed 19/09/18	Fri 28/09/18	30%													
111	Police Station watermain connection - City Care/FH	4 days	Tue 25/09/18	Fri 28/09/18	10%													
112	Install new stormwater facilities - Mud Tanks & Laterals / SWCP 4 - Waiting on a design of this area before we can get started	4.5 days	Mon 15/10/18	Fri 19/10/18	0%	109FS+15 days												
113	Install new Sewer lateral to Exeloo & Kiosk (waiting on Building Consent Approvals)	5 days	Fri 19/10/18	Mon 29/10/18	0%	112												
114	Install Water connections to Exeloo & Kiosk	4 days	Mon 29/10/18	Fri 2/11/18	0%	113												
115	New 300 Dia PE Watermain Installation	23 days	Tue 23/10/18	Thu 22/11/18	0%													
116																		
117	<b>Farmers Carpark to Branson's Corner</b>	<b>21 days</b>	<b>Mon 8/10/18</b>	<b>Tue 6/11/18</b>	<b>0%</b>	<b>78FS-2 days</b>												
118	Remove kerb & footpath	2 days	Mon 8/10/18	Tue 9/10/18	0%													
119	Base up for kerbing	1 day	Tue 9/10/18	Tue 9/10/18	0%	118FS-1 day												
120	Pour kerbing (Dcc & Kessal Moulds)	2 days	Wed 10/10/18	Thu 11/10/18	0%	119												
121	Install ducting and pits	5 days	Wed 10/10/18	Tue 16/10/18	0%	120FS-2 days												
122	Remove existing light poles x 2	1 day	Wed 17/10/18	Wed 17/10/18	0%	121												
123	Install light pole footings x 2	1 day	Wed 17/10/18	Wed 17/10/18	0%	121												
124	Connect Building Stormwater pipes to kerbs	1 day	Tue 16/10/18	Tue 16/10/18	0%	123FS-2 days												
125	Base up footpath to final levels	2 days	Mon 15/10/18	Tue 16/10/18	0%	124FS-2 days												
126	Civil Works - Garden Plot, Street Furniture Footings	4 days	Wed 17/10/18	Tue 23/10/18	0%	125												
127	Lay Cobble Stones	8 days	Wed 24/10/18	Fri 2/11/18	0%	126												
128	Excavate Garden Plot	0.5 days	Mon 5/11/18	Mon 5/11/18	0%	127												
129	Place Top Soil and Plants	1 day	Mon 5/11/18	Mon 5/11/18	0%	128FS-0.5 days												
130	Tactile Markers	1 day	Tue 6/11/18	Tue 6/11/18	0%	129												
131																		
132	<b>Farmers Carpark to Community House</b>	<b>26 days</b>	<b>Wed 17/10/18</b>	<b>Thu 22/11/18</b>	<b>0%</b>	<b>125</b>												
133	Excavate Farmers Carpark Crossing	1 day	Wed 17/10/18	Wed 17/10/18	0%													
134	Base Up & Pour Farmers Carpark Crossing	1 day	Thu 18/10/18	Thu 18/10/18	0%	133												
135	Cobble Farmers Carpark Crossing	5 days	Tue 23/10/18	Mon 29/10/18	0%	134FS+1 day												
136	Remove kerb & footpath	2 days	Thu 18/10/18	Fri 19/10/18	0%	133												
137	Base up for kerbing	2 days	Fri 19/10/18	Tue 23/10/18	0%	136FS-1 day												
138	Pour kerbing (Dcc & Kessal Moulds)	2 days	Tue 23/10/18	Wed 24/10/18	0%	137FS-1 day												
139	Install ducting and pits	6 days	Tue 23/10/18	Tue 30/10/18	0%	138FS-2 days												
140	Install light pole footings x 2	0.5 days	Tue 30/10/18	Tue 30/10/18	0%	139FS-1 day												
141	Connect Building / Bus Shelter Stormwater pipes to kerbs	1 day	Tue 30/10/18	Wed 31/10/18	0%	140												
142	Base up footpath to final levels	2.5 days	Tue 30/10/18	Thu 1/11/18	0%	141FS-1 day												
143	Civil Works - Garden Plot, Double Bus Shelter Foundation x 3, Street Furniture Footings	10 days	Fri 26/10/18	Thu 8/11/18	0%	142FS+2 days												
144	Lay Cobble Stones	8 days	Fri 9/11/18	Tue 20/11/18	0%	143												
145	Excavate Garden Plot	0.5 days	Wed 21/11/18	Wed 21/11/18	0%	144												
146	Place Top Soil and Plants	1 day	Wed 21/11/18	Wed 21/11/18	0%	145FS-0.5 days												
147	Tactile Markers	1 day	Thu 22/11/18	Thu 22/11/18	0%	146												
148																		
149	<b>Moray Place Intersection</b>	<b>23 days</b>	<b>Tue 30/10/18</b>	<b>Thu 29/11/18</b>	<b>4%</b>													
150	<b>Traffic Signals</b>	<b>8 days</b>	<b>Wed 31/10/18</b>	<b>Mon 12/11/18</b>	<b>16%</b>	<b>136</b>												
151	Setting out	0.5 days	Wed 31/10/18	Wed 31/10/18	25%													
152	Install ducting/Chambers	5 days	Wed 31/10/18	Wed 7/11/18	25%	151FS-1 day												
153	Install new traffic signals	2 days	Wed 7/11/18	Fri 9/11/18	0%	152												
154	Commission Lights	1 day	Fri 9/11/18	Mon 12/11/18	0%	153												
155	<b>Road / Footpath Work</b>	<b>23 days</b>	<b>Tue 30/10/18</b>	<b>Thu 29/11/18</b>	<b>0%</b>	<b>138FS+3 days</b>												
156	Remove kerb & footpath	1 day	Tue 30/10/18	Tue 30/10/18	0%													
157	Base up for kerbing	6 days	Wed 31/10/18	Wed 7/11/18	0%	156												
158	Pour kerbing (DCC)	5 days	Thu 8/11/18	Wed 14/11/18	0%	157												
159	Install ducting and pits	6 days	Thu 15/11/18	Thu 22/11/18	0%	158												
160	Install light pole footings x 1	1 day	Fri 23/11/18	Fri 23/11/18	0%	159												
161	Connect Building / Bus Shelter Stormwater pipes to kerbs	1 day	Mon 26/11/18	Mon 26/11/18	0%	160												
162	Base up footpath to final levels	1 day	Tue 27/11/18	Tue 27/11/18	0%	161												

Project: ORC Bus Hub Program  
Date: Tue 25/09/18

Task Split Milestone Project Summary Inactive Task Inactive Milestone Manual Task Manual Summary Rollup Start-only External Tasks Deadline Manual Progress

Summary Inactive Summary Duration-only Manual Summary Finish-only External Milestone Progress

ID	Task Name	Duration	Start	Finish	% Complete	Predecessors	April	May	June	July	August	September	October	November	December	January	February	March
163	Asphalt Footpath	1 day	Wed 28/11/18	Wed 28/11/18	0%	162												
164	Tactile markers	1 day	Thu 29/11/18	Thu 29/11/18	0%	163												
165																		
166	<b>Road Excavation (Road Closed To All Through Traffic Day &amp; Night)</b>	<b>14.5 days</b>	<b>Fri 23/11/18</b>	<b>Thu 13/12/18</b>	<b>0%</b>	<b>115</b>												
167	Excavate Road	4 days	Fri 23/11/18	Wed 28/11/18	0%													
168	M4/40 Basecourse	2 days	Thu 29/11/18	Fri 30/11/18	0%	167												
169	Box & Pour Concrete Crossing Beams	1.5 days	Mon 3/12/18	Tue 4/12/18	0%	168												
170	Pour concrete under slab	1 day	Wed 5/12/18	Thu 6/12/18	0%	169FS+1 day												
171	Lay Cobble Stones	5 days	Thu 6/12/18	Thu 13/12/18	0%	170												
172																		
173	<b>Surfacing</b>	<b>50.5 days?</b>	<b>Mon 8/10/18</b>	<b>Tue 18/12/18</b>	<b>0%</b>													
174	Moray Place Intersection (Night Works based on Not doing the Deep Lift Area as planned But allowing for 50mm Tie In's and 50mm Key In's along the kerbs)	1 day?	Fri 23/11/18	Fri 23/11/18	0%	159												
175	Mill of entire area with Tie In's and Key In's	2 days	Mon 26/11/18	Tue 27/11/18	0%	174												
176	Additional profiling to Moray Place leg of the intersection	1 day	Wed 28/11/18	Wed 28/11/18	0%	175												
177	Dig out and backfill the stormwater trenches to allow 150mm of asphalt below milled surface x 2	1 day	Thu 29/11/18	Thu 29/11/18	0%	176												
178	Wearing Course Layer over entire extent of intersection work area	1 day	Fri 30/11/18	Fri 30/11/18	0%	177												
179	Line Markings	1 day	Mon 3/12/18	Mon 3/12/18	0%	178												
180	Commission Traffic Lights	2 days	Tue 4/12/18	Wed 5/12/18	0%	179												
181																		
182	<b>Great King Street</b>	<b>3 days</b>	<b>Thu 13/12/18</b>	<b>Tue 18/12/18</b>	<b>0%</b>	<b>171</b>												
183	Layer Two - 50mm AC14 High Fatigue Asphalt	1 day	Thu 13/12/18	Fri 14/12/18	0%	168												
184	Layer Three - 125mm AC14 Structural Asphalt	1 day	Thu 13/12/18	Fri 14/12/18	0%	183FS-1 day												
185	Wearing Course Layer over entire extent of Moray Place intersection work area	2 days	Thu 13/12/18	Mon 17/12/18	0%	171												
186	Road markings	1 day	Mon 17/12/18	Tue 18/12/18	0%	185												
187																		
188	<b>Exeloo / Bike Park Area / Kiosk Area</b>	<b>23 days</b>	<b>Mon 8/10/18</b>	<b>Thu 8/11/18</b>	<b>0%</b>													
189	Set out	0.5 days	Mon 8/10/18	Mon 8/10/18	0%													
190	Excavate	10 days	Mon 8/10/18	Tue 23/10/18	0%	189												
191	Build retaining wall	6 days	Tue 23/10/18	Wed 31/10/18	0%	190												
192	Erect Fence	3 days	Fri 2/11/18	Wed 7/11/18	0%	191FS+2 days												
193	Exeloo Footings	3 days	Mon 5/11/18	Thu 8/11/18	0%	192FS+2 days												
194	Install Exeloo	0.5 days	Thu 8/11/18	Thu 8/11/18	0%	114FS+4 days												
195																		
196	<b>Bus Shelters / Kiosk - Design Brand</b>	<b>163 days</b>	<b>Fri 6/07/18</b>	<b>Tue 19/02/19</b>	<b>0%</b>													
197	Assemble and install new bus shelters - As Per Signed Sub Contractor Agreement	45 days	Fri 6/07/18	Wed 5/09/18	0%													
198	Assemble and install new bus shelters - In real time given progress to date and communication issues. EOT to be forwarded for processing and approval.	109 days	Fri 6/07/18	Wed 5/12/18	0%													
199	Kiosk Installation	2 days	Mon 18/02/19	Tue 19/02/19	0%	198												
200																		
201	<b>Lighting Poles / Cabling</b>	<b>20 days</b>	<b>Tue 23/10/18</b>	<b>Mon 19/11/18</b>	<b>0%</b>													
202	Install Cabling	5 days	Tue 23/10/18	Mon 29/10/18	0%													
203	Erect Lighting Poles	6 days	Fri 2/11/18	Fri 9/11/18	0%	202FS-2 days												
204	Commission	2 days	Mon 12/11/18	Tue 13/11/18	0%	203												
205	Recut Cobbles around poles	4 days	Wed 14/11/18	Mon 19/11/18	0%	203FS-2 days,2												
206																		
207	<b>Completion</b>	<b>67 days</b>	<b>Tue 20/11/18</b>	<b>Wed 20/02/19</b>	<b>0%</b>													
208	Site Clean Up & Disestablishment	2 days	Tue 20/11/18	Wed 21/11/18	0%													
209	Contract Completion Date based on award date	1 day	Wed 21/11/18	Wed 21/11/18	0%	208FS-1 day												
210	Actual completion date influenced by the inclusion of the water main renewal works which has the effect of pushing other work back.	1 day	Tue 18/12/18	Wed 19/12/18	0%	186												
211	Actual Estimated Completion Date with the delayed Kiosk arrival	1 day	Wed 20/02/19	Wed 20/02/19	0%	199												

**From:** [Philip Morrison](#)  
**To:** [Hjarne Poulsen](#)  
**Cc:** [Blair McKeever](#); [SUTHERLAND, Alex](#); [Derek Walsh](#)  
**Subject:** RE: Recycling Cabinets - Bus Hub  
**Date:** Friday, 23 November 2018 9:46:41 a.m.  
**Attachments:** [image004.png](#)  
[image005.png](#)

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All good, thanks Hjarne.

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**From:** Hjarne Poulsen <xxxxxx.xxxxxxx@xxx.xxxx.xx>  
**Sent:** Friday, 23 November 2018 9:43 a.m.  
**To:** Philip Morrison <xxxxxx.xxxxxxx@xxx.xxx>  
**Cc:** Blair McKeever <xxxxx.xxxxxxx@xxx.xxxx.xx>; SUTHERLAND, Alex <xxxx.xxxxxxx@xxxxxxxxxxx.xxx>  
**Subject:** RE: Recycling Cabinets - Bus Hub

Hi Philip,

The bins wont arrive till Dec – waste will use their contractor to install.

Cheers  
Hjarne

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**From:** Philip Morrison [<mailto:xxxxxx.xxxxxxx@xxx.xxx> ]  
**Sent:** Tuesday, 20 November 2018 9:16 p.m.  
**To:** Hjarne Poulsen <[xxxxxx.xxxxxxx@xxx.xxxx.xx](mailto:xxxxxx.xxxxxxx@xxx.xxxx.xx) >  
**Cc:** Blair McKeever <[xxxxx.xxxxxxx@xxx.xxxx.xx](mailto:xxxxx.xxxxxxx@xxx.xxxx.xx) >; SUTHERLAND, Alex <[xxxx.xxxxxxx@xxxxxxxxxxx.xxx](mailto:xxxx.xxxxxxx@xxxxxxxxxxx.xxx) >  
**Subject:** Recycling Cabinets - Bus Hub

Hi Hjarne,

I think I'd mentioned to you that FH were asking whether you had the recycling cabinets for the Bus Hub in stock and ready to install?

Let's know if you do – they may be able to install them before the Xmas shutdown (Nov 30).

One thing to consider though is whether DCC have made arrangements with their refuse contractor to actually empty them???

Hear from you soon.

Cheers,

**Philip Morrison**

Engineering Technologist

Beca

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DDI: +64 3 951 2393

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