



File No.: 04-1000-20-2022-657

March 14, 2023

s.22(1)

Dear s.22(1)

Re: Request for Access to Records under the Freedom of Information and Protection of Privacy Act (the "Act")

I am responding to your request of December 20, 2022 under the *Freedom of Information and Protection of Privacy Act (the Act)* for:

All emails from the Transportation Division - Transit Integration & Projects to Coast Mountain Bus Company and TransLink. Date range: August 10, 2021 to August 11, 2021.

All responsive records are attached. Some information in the records has been severed (blacked out) under s.15(1)(I) of the Act. You can read or download this section here: <a href="http://www.bclaws.ca/EPLibraries/bclaws\_new/document/ID/freeside/96165\_00">http://www.bclaws.ca/EPLibraries/bclaws\_new/document/ID/freeside/96165\_00</a>.

Under section 52 of the Act, and within 30 business days of receipt of this letter, you may ask the Information & Privacy Commissioner to review any matter related to the City's response to your FOI request by writing to: Office of the Information & Privacy Commissioner, info@oipc.bc.ca or by phoning 250-387-5629.

If you request a review, please provide the Commissioner's office with: 1) the request number (#04-1000-20-2022-657); 2) a copy of this letter; 3) a copy of your original request; and 4) detailed reasons why you are seeking the review.

Yours truly,

[Signed by Cobi Falconer]

Cobi Falconer, MAS, MLIS, CIPP/C
Director, Access to Information & Privacy
<a href="mailto:cobi.falconer@vancouver.ca">cobi.falconer@vancouver.ca</a>
453 W. 12th Avenue Vancouver BC V5Y 1V4

If you have any questions, please email us at <a href="mailto:foi@vancouver.ca">foi@vancouver.ca</a> and we will respond to you as soon as possible. Or you can call the FOI Case Manager at 604-871-6584.

Encl. (Response package)

:pm

From: "Manfre, Luiz" < luiz.manfre@vancouver.ca>

To: "Simon Kai" < SKai@BSCGP.ca>

"Anita Odchimar" <aodchimar@BSCGP.ca> "Asgari, Amin" <Amin.Asgari@translink.ca>

"Carreira, Daniel" < Daniel. Carreira@coastmountainbus.com>

"Eugene Creamer" < ECreamer@BSCGP.ca>
"Felipe Rodriguez" < FRodriguez@BSCGP.ca>

"Jordan Fahey" < JFahey@BSCGP.ca>

"Liew, Tony" <Tony.Liew@coastmountainbus.com>

"Ma, John K TIC:EX" < john.ma@ticorp.ca>

"Samilski, Mike TIC:EX" <mike.samilski@ticorp.ca>

"Moises Barbosa" < MBarbosa@BSCGP.ca>

"Holmstrom, Neil" <neil.holmstrom@vancouver.ca>

"Ngan, Caroline" <caroline.ngan@vancouver.ca>

"Sean O'Sullivan" <sosullivan@BSCGP.ca>

"Cooper, Tracy J TRAN:EX" <tracy.cooper@gov.bc.ca>

"Wall, Les" <les.wall@coastmountainbus.com>

"Hoban, Dale" <dale.hoban@vancouver.ca>

"Fatemeh Masoudialavi" < FMasoudialavi@BSCGP.ca>

"Carl Clayton" <carl.clayton@ibigroup.com>

"Alexey Pryadko" <APryadko@BSCGP.ca>

"Ricky Ho" <rho@BSCGP.ca>

"Steve Martin" <steve.martin@ibigroup.com>

"Mladen Pecanac" <mladen.pecanac@ibigroup.com>

Date: 8/11/2021 10:20:58 AM

Subject: RE: BSCGP - South Granville Stage 1 Piling - Revision B (e-amil 3

of 3)

Attachments: SG - Stage 1 - Comment Resolution Sheet - 2021-08-11.XLSX

SG - Stage 1 - TS SL - COV Comments - 2021-08-11.pdf

Hello Simon.

Please find attached the City Comments for South Granville Stage 1 Traffic Signal & Street Lighting Designs, along with the updated Comments Resolution Sheet.

Please revise and resubmit with an updated Comment Resolution Sheet.

Let me know if you require more information.

Thank you.

Luiz

From: Simon Kai <SKai@BSCGP.ca> Sent: Monday, August 9, 2021 6:34 PM

To: Manfre, Luiz <Luiz.Manfre@vancouver.ca>; Anita Odchimar <aodchimar@BSCGP.ca>; Asgari, Amin <Amin.Asgari@translink.ca>; Carreira, Daniel <Daniel.Carreira@coastmountainbus.com>; Eugene Creamer <ECreamer@BSCGP.ca>; Felipe Rodriguez <FRodriguez@BSCGP.ca>; Jordan Fahey <JFahey@BSCGP.ca>; Liew, Tony <Tony.Liew@coastmountainbus.com>; Ma, John K TIC:EX <john.ma@ticorp.ca>; Samilski, Mike TIC:EX <mike.samilski@ticorp.ca>; Moises Barbosa <MBarbosa@BSCGP.ca>; Holmstrom, Neil <neil.holmstrom@vancouver.ca>; Ngan, Caroline <Caroline.Ngan@vancouver.ca>; Sean O'Sullivan <sosullivan@BSCGP.ca>; Cooper, Tracy J TRAN:EX <tracy.cooper@gov.bc.ca>; Wall, Les <les.wall@coastmountainbus.com>; Hoban, Dale <Dale.Hoban@vancouver.ca>; Fatemeh Masoudialavi <FMasoudialavi@BSCGP.ca>; Carl Clayton <carl.clayton@ibigroup.com>; Alexey Pryadko <APryadko@BSCGP.ca>; Ricky Ho <rho@BSCGP.ca>; Steve Martin <steve.martin@ibigroup.com>; Mladen Pecanac <mladen.pecanac@ibigroup.com> Subject: [EXT] RE: BSCGP - South Granville Stage 1 Piling - Revision B (e-amil 3 of 3)

City of Vancouver security warning: Do not click on links or open attachments unless you were expecting the email and know the content is safe.

Hi Luiz, Caroline and Tracy

Attached please find the revised Traffic Signal and Street Lighting Design, as well as the comments resolution sheet for your review.

Please note that subsequent to the previous submission, we need to modify the lighting design because there is a lead time of between 6 to 8 weeks to get the light fixture we need if we go with the span wire option, and another issue is the construction team has modified the temporary waterline design and there will be conflicts to place temporary light poles along the south sidewalk. So the lighting design will now go back to the original option by mounting light poles on lock blocks and place them along the roadside barriers beside traffic.

#### Regards

Simon Kai, P.Eng., PTOE Cell: 778.871.9853 Broadway Subway Project



From: Manfre, Luiz < Luiz. Manfre@vancouver.ca>

Sent: Monday, July 26, 2021 4:28 PM

To: Simon Kai <<u>SKai@BSCGP.ca</u>>; Anita Odchimar <<u>aodchimar@BSCGP.ca</u>>; Asgari, Amin <<u>Amin.Asgari@translink.ca</u>>; Carreira, Daniel <<u>Daniel.Carreira@coastmountainbus.com</u>>; Eugene Creamer <<u>ECreamer@BSCGP.ca</u>>; Felipe Rodriguez <<u>FRodriguez@BSCGP.ca</u>>; Jordan Fahey <<u>JFahey@BSCGP.ca</u>>; Liew, Tony <<u>Tony.Liew@coastmountainbus.com</u>>; Ma, John K TIC:EX

<<u>iohn.ma@ticorp.ca</u>>; Samilski, Mike TIC:EX <<u>mike.samilski@ticorp.ca</u>>; Moises Barbosa <<u>MBarbosa@BSCGP.ca</u>>; Holmstrom, Neil <<u>Neil.Holmstrom@vancouver.ca</u>>; Ngan, Caroline <<u>caroline.ngan@vancouver.ca</u>>; Sean O'Sullivan <<u>sosullivan@BSCGP.ca</u>>; Cooper, Tracy J TRAN:EX <<u>tracy.cooper@gov.bc.ca</u>>; Wall, Les <<u>les.wall@coastmountainbus.com</u>>; Hoban, Dale <<u>Dale.Hoban@vancouver.ca</u>>; Ronetta Seymour <<u>RSeymour@BSCGP.ca</u>>; Fatemeh Masoudialavi <<u>FMasoudialavi@BSCGP.ca</u>>

Cc: Ricky Ho <<u>rho@BSCGP.ca</u>>; Alexey Pryadko <<u>APryadko@BSCGP.ca</u>>
Subject: RE: BSCGP - South Granville Stage 1 Piling - Revision B (e-amil 3 of 3)

Hello Simon,

Please find attached the City Comments for South Granville Stage 1 Roadworks and Traffic Signal and Street Lighting Design (received on July 22<sup>nd</sup>), as well as the Comments Resolution Sheet. Please revise and resubmit with an updated Comment Resolution Sheet.

Thank you.

Luiz

From: Simon Kai <<u>SKai@BSCGP.ca</u>> Sent: Thursday, July 22, 2021 1:29 PM

To: Manfre, Luiz < Luiz.Manfre@vancouver.ca>; Anita Odchimar < aodchimar@BSCGP.ca>; Asgari, Amin < Amin.Asgari@translink.ca>; Carreira, Daniel < Daniel.Carreira@coastmountainbus.com>; Eugene Creamer < ECreamer@BSCGP.ca>; Felipe Rodriguez < FRodriguez@BSCGP.ca>; Jordan Fahey < JFahey@BSCGP.ca>; Liew, Tony < Tony.Liew@coastmountainbus.com>; Ma, John K TIC:EX < iohn.ma@ticorp.ca>; Samilski, Mike TIC:EX < mike.samilski@ticorp.ca>; Moises Barbosa < MBarbosa@BSCGP.ca>; Holmstrom, Neil < neil.holmstrom@vancouver.ca>; Ngan, Caroline < Caroline.Ngan@vancouver.ca>; Sean O'Sullivan < sosullivan@BSCGP.ca>; Cooper, Tracy J TRAN:EX < tracy.cooper@gov.bc.ca>; Wall, Les < Les.Wall@coastmountainbus.com>; Hoban, Dale < Dale.Hoban@vancouver.ca>; Ronetta Seymour < RSeymour@BSCGP.ca>; Fatemeh Masoudialavi < FMasoudialavi@BSCGP.ca>

Cc: Ricky Ho < rho@BSCGP.ca >; Alexey Pryadko < APryadko@BSCGP.ca >

Subject: [EXT] RE: BSCGP - South Granville Stage 1 Piling - Revision B (e-amil 3 of 3)

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HI Luiz

Please see attached comments resolution sheet.

#### Regards

Simon Kai, P.Eng., PTOE Cell: 778.871.9853 Broadway Subway Project



From: Manfre, Luiz < Luiz. Manfre@vancouver.ca>

Sent: Thursday, July 22, 2021 12:48 PM

To: Simon Kai <SKai@BSCGP.ca>; Anita Odchimar <aodchimar@BSCGP.ca>; Asgari, Amin <Amin.Asgari@translink.ca>; Carreira, Daniel <Daniel.Carreira@coastmountainbus.com>; Eugene Creamer <ECreamer@BSCGP.ca>; Felipe Rodriguez <FRodriguez@BSCGP.ca>; Jordan Fahey <JFahey@BSCGP.ca>; Liew, Tony <Tony.Liew@coastmountainbus.com>; Ma, John K TIC:EX <iohn.ma@ticorp.ca>; Samilski, Mike TIC:EX <mike.samilski@ticorp.ca>; Moises Barbosa <MBarbosa@BSCGP.ca>; Holmstrom, Neil <Neil.Holmstrom@vancouver.ca>; Ngan, Caroline <caroline.ngan@vancouver.ca>; Sean O'Sullivan <sosullivan@BSCGP.ca>; Cooper, Tracy J TRAN:EX <tracy.cooper@gov.bc.ca>; Wall, Les <Les.Wall@coastmountainbus.com>; Hoban, Dale <Dale.Hoban@vancouver.ca>; Ronetta Seymour <RSeymour@BSCGP.ca>; Fatemeh Masoudialavi <FMasoudialavi@BSCGP.ca>

Cc: Ricky Ho <<u>rho@BSCGP.ca</u>>; Alexey Pryadko <<u>APryadko@BSCGP.ca</u>> Subject: RE: BSCGP - South Granville Stage 1 Piling - Revision B (e-amil 3 of 3)

Hello Simon,

Thank you for sending the drawings. Could you please submit the updated Comment resolution Sheet as well?

Thanks.

Luiz

From: Simon Kai <<u>SKai@BSCGP.ca</u>> Sent: Thursday, July 22, 2021 12:08 PM

To: Anita Odchimar <aodchimar@BSCGP.ca>; Asgari, Amin <Amin.Asgari@translink.ca>; Carreira, Daniel <Daniel.Carreira@coastmountainbus.com>; Eugene Creamer <ECreamer@BSCGP.ca>; Felipe Rodriguez@BSCGP.ca>; Jordan Fahey <JFahey@BSCGP.ca>; Liew, Tony <Tony.Liew@coastmountainbus.com>; Ma, John K TIC:EX <john.ma@ticorp.ca>; Samilski, Mike TIC:EX <mike.samilski@ticorp.ca>; Moises Barbosa <MBarbosa@BSCGP.ca>; Holmstrom, Neil <neil.holmstrom@vancouver.ca>; Ngan, Caroline <Caroline.Ngan@vancouver.ca>; Sean O'Sullivan <sosullivan@BSCGP.ca>; Cooper, Tracy J TRAN:EX <tracy.cooper@gov.bc.ca>; Wall, Les <Les.Wall@coastmountainbus.com>; Hoban, Dale <Dale.Hoban@vancouver.ca>; Ronetta Seymour <RSeymour@BSCGP.ca>; Fatemeh Masoudialavi <FMasoudialavi@BSCGP.ca>; Manfre, Luiz

#### <Luiz.Manfre@vancouver.ca>

Cc: Ricky Ho < rho@BSCGP.ca>; Alexey Pryadko < APryadko@BSCGP.ca>

Subject: [EXT] BSCGP - South Granville Stage 1 Piling - Revision B (e-amil 3 of 3)

City of Vancouver security warning: Do not click on links or open attachments unless you were expecting the email and know the content is safe.

Tracy and Caroline (Re-sending one file at a time)

I apologize that we did not submit this package to you yesterday as planned, we will work better internally to improve this issue.

Please see attached documents for the South Granville Piling Stage 1 work, submitted for your review and comment, under the Review Procedure.

This submission includes the following documents:

- Electrical and lighting drawings
- TCPs and Roadworks Drawings

The contact person from BSCGP for this work is Ricky Ho (604-818-0762) and Alexey Pryadko (604-258-8521)

Regards

Simon Kai, P.Eng., PTOE Cell: 778.871.9853 Broadway Subway Project



Document Title: Comment Resolution Sheet for South Granville Stage 1 - Traffic Signal & Street Lighting Design					
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	ct Broadway Subway Proj				Progress:	NA	Response Date											
Document Nam	e: South Granville Stage	1 - Traffic Signal & S	Street Lighting				Submittal No.											
			Т	Sul	bmittal Status													
		REVIEWED	Submittals that appe	ear to conform to the requirements of the Agreement, including the Design and Con-	struction Specifica	tions and the Prop	sposal Extracts (Design and Construction)											
	CORF	RECT DEFICIENCIES	Submittals that appereview	ear to generally conform to the requirements of the Agreement, including the Design	and Construction	Specifications an	nd the Proposal Extracts (Design and Construction) but in which deficiencies have been found and identified by the Province's											
		REJECTED	Submittals that cont	ain significant deficiencies or do not generally conform to the requirements of the A	greement, includin	g the Design and	Construction Specifications and the Proposal Extracts (Design and Construction)											
	NOT REVIEWED Submittals that have not been reviewed by the Province in detail because the Submittals does not comply with the requirements of Schedule 2 [Review and Consent Procedure] are incomplete or otherwise insufficient for the purposes of a Design review, or are received by the Province before the date scheduled in the Submittal Schedule.																	
Doc. Ref. Relevant PA Clause Comment No. Reviewer Name Review Comment Action Item* Responder Name							Response	Status										
TRAFFIC SIGNAL & STREET LIGHTING DESIGNS - PAGE 3		1	TDM	suggestion for just one primary head located here. these seem a bit squished. (assuming cone of vision still OK)		Nume												
TRAFFIC SIGNAL & STREET LIGHTING DESIGNS - PAGE 3		2	TEOD	Suggest flipping text so arrow points in the correct direction (left)														
TRAFFIC SIGNAL & STREET LIGHTING DESIGNS - PAGE 3		3	TEOD	Confirm if pole can handle load of span and existing signal arm. If not, arm would need to be removed and then 3x300 installed on span wire.														
TRAFFIC SIGNAL & STREET LIGHTING DESIGNS - PAGE 4		4	TEOD	Should be in red (BY COV)														
TRAFFIC SIGNAL & STREET LIGHTING DESIGNS - PAGE 4		5	TDM	confirm not repainting the rest of stop bar?2 submissions ago has it painted (ok if paint plan has changed - this was just not responded to )														
TRAFFIC SIGNAL & STREET LIGHTING DESIGNS - PAGE 4		6	TEOD	Should be in red (BY COV)														
TRAFFIC SIGNAL & STREET LIGHTING DESIGNS - PAGE 5		7	TDM	suggestion for 1 primary head as these seem a bit squished. (assuming cone of vision still OK)														
TRAFFIC SIGNAL & STREET LIGHTING DESIGNS - PAGE 5		8	TEOD	Suggest flipping text so arrow points in the correct direction (left)														
TRAFFIC SIGNAL & STREET LIGHTING DESIGNS - PAGE 5 TRAFFIC SIGNAL &		9	TEOD	LT arrow shown on wrong secondary head.														
STREET LIGHTING DESIGNS - PAGE 5		10	TDM	what is the ped clearance between the pole and the barrier? please dimension														
TRAFFIC SIGNAL & STREET LIGHTING DESIGNS - PAGE 6		11	TDM	suggestion for different line type/colour for the removed items as the existing and remove look the same														
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#### \*Action Item

Correct
Additional Information Required

#### Status

Open Closed

ocument Title: Comment Resolution Sheet for South Granville Stage 1 - Traffic Signal & Street Lighting Design	Document Number:		
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SUBMISSION REVIEW FORM			

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Document Name.	South Granville Stage 1	- Tramic Signal & S	Street Lighting	Sul	bmittal Status		joudinital No.			
		REVIEWED	Submittals that app	ear to conform to the requirements of the Agreement, including the Design and Col	nstruction Specific	cations and the Prop	posal Extracts (Design and Construction)			
			Submittals that ann	pear to generally conform to the requirements of the Agreement, including the Design	in and Construction	on Specifications an	nd the Proposal Extracts (Design and Construction) but in which deficiencies have been found and identified by the Province	e	1	
	CORR	ECT DEFICIENCIES	review	real to generally comonn to the requirements of the Agreement, including the besig	gri and Constitution	on opecinications an	to the Froposal Extracts (besign and construction) but in which deficies have been found and definited by the Frovince	3		
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		REJECTED	Submittals that con	tain significant deficiencies or do not generally conform to the requirements of the	Agreement, includ	ling the Design and	Construction Specifications and the Proposal Extracts (Design and Construction)			
	NOT REVIEWED Submittals that have not been reviewed by the Province in detail because the Submittals does not comply with the requirements of Schedule 2 [Review and Consent Procedure] are incomplete or otherwise insufficient for the purposes of a Design review, or are received by the Province before the date scheduled in the Submittal Schedule.									
Doc. Ref.	Relevant PA Clause	Comment No.	Reviewer Name	Review Comment	Action Item*	Responder Name	Response	Status	1	
ROADWORKS - BSP- 70901-SGIG-41DD-1008		1	TDM	suggestion to dimension all left turn bays		IBI	Dimension added for clarity	Open	<u> </u>	
ROADWORKS - BSP- 70901-SGIG-41DD-1008		2	TDM	TYP - we have discussed this many times - this should be shown as a curb and not just		IBI	There is an elevation difference between the new road surface and the exisiting sidewalk	Open	<u> </u>	
ROADWORKS - BSP- 70901-SGIG-41DD-1008		3	TDM	confirm DDL in place		IBI	Exisiting DDL is in place - will be refreshed if needed.	Closed	1	
TRAFFIC SIGNAL &		1	TEOD	No longer double davit		GNEC	Updated	Closed	1	
STREET LIGHTING DESIGN - PAGE 2			7500			01150			_	
TRAFFIC SIGNAL & STREET LIGHTING		12	TEOD	SL goes through poles 1/14 and JB. Wires need to be disconnected at poly 1000 JB.		GNEC	Updated	Closed		
DESIGN - PAGE 2 TRAFFIC SIGNAL &		3	TEOD	This is not practical. New head should be installed before old is removed.		GNEC	Changed so that the existing head is removed and returned to city yard after installation of new head.	Closed	1	
STREET LIGHTING DESIGN - PAGE 3									_	
TRAFFIC SIGNAL & STREET LIGHTING		4	TDM	as discussed, current cabinet won't allow for actuated LT phases		GNEC	noted.	Closed		
DESIGN - PAGE 3 TRAFFIC SIGNAL &		5	TEOD	Add note for ex. signal arm and heads to be removed.		GNEC	Added	Closed	-	
STREET LIGHTING DESIGN - PAGE 3										
TRAFFIC SIGNAL & STREET LIGHTING		6	TDM	please shift to the north so it is not in line with the DDL		GNEC	Shifted so both heads are centered on the lanes.	Open	<mark>/</mark>	
DESIGN - PAGE 3 TRAFFIC SIGNAL &		7	TEOD	Are fixed-time left turns planned? If so, heads should be 4x300.		GNEC	Fixed-time planned. Heads updated to 4 section	Closed	4	
STREET LIGHTING DESIGN - PAGE 3										
TRAFFIC SIGNAL & STREET LIGHTING		8	TEOD	Add note for ex. signal arm and heads to be removed.		GNEC	signal arm and signal head to remain as 12/15 is not in conflict with the laning	Open		
DESIGN - PAGE 3 TRAFFIC SIGNAL &		9	TEOD	This is not practical. New head should be installed before old is removed.		GNEC	Changed so that the existing head is removed and returned to city yard after installation of new head.	Closed	Confirm with CMBC if pole can handle load of span and arm.	
STREET LIGHTING DESIGN - PAGE 3										
TRAFFIC SIGNAL & STREET LIGHTING		10	TDM	confirm not repainting the rest of stop bar? last submission has it painted				Open	]	
DESIGN - PAGE 4 TRAFFIC SIGNAL &		11	TEOD	SL conduits/circuits will be damaged or unusable once new curb is in place. Ensure		GNEC	Updated existing connection, SL to west will be re-fed via wood pole and UG conductors disconnected.	Closed	No response	
STREET LIGHTING DESIGN - PAGE 5				connection from JB near 5/24 to wood pole is in place, then triplex can carry the SL power West.			**************************************	0.0000		
TRAFFIC SIGNAL & STREET LIGHTING		12	TEOD	Need SL conductors across this span to feed pole 2/14 and new wood poles to the West.		GNEC	SL conducters are part of this span, refer to note at SW corner of intersection on the drawings	Closed	1	
DESIGN - PAGE 5 TRAFFIC SIGNAL &		13	TEOD	Since none of the poles on this block are staying anymore, disconnection should be at		GNEC	Moved CoV disconnect note to the Type 2 JB to remain beside pole 1/25	Closed	4	
STREET LIGHTING DESIGN - PAGE 5		13	TEOD	JB, not between these two poles.		GNEC	woved CoV disconnect note to the Type 2 Jb to remain beside pole 1/25	Closed		
TRAFFIC SIGNAL & STREET LIGHTING		14	TEOD	Tie in should be at JB, not pole.		GNEC	Updated	Closed	1	
DESIGN - PAGE 5			7500			01150			_	
TRAFFIC SIGNAL & STREET LIGHTING		15	TEOD	Relocating heads is not practical. New heads should be installed first to allow for seamless cutover, Old heads can be used at other locations.		GNEC	Changed to new heads	Closed		
DESIGN - PAGE 5 TRAFFIC SIGNAL &		16	TEOD	Conduit should go to JB, not pole.		GNEC	This wire is a an overhead span to cut down on civil works. Added a callout for the span for clarity.	Closed	1	
STREET LIGHTING DESIGN - PAGE 5									_	
TRAFFIC SIGNAL & STREET LIGHTING		17	TDM	what is the ped clearance between the pole and the barrier?				Open		
DESIGN - PAGE 5 TRAFFIC SIGNAL &		18	TDM	update for the left turns (primary and secondary heads)		GNEC	Updated	Closed	no response and no dimension added	
STREET LIGHTING DESIGN - PAGE 5										
TRAFFIC SIGNAL & STREET LIGHTING		19	TEOD	If SL is in fact in the Poly 1000 JB, then SL conductors will be needed from this JB to wood pole 1/14 to feed intersection lighting and mid-block poles. Source of power is		GNEC	Added a type 3 JB to intercept existing SL and extend to new wood pole.	Closed		
DESIGN - PAGE 5				separate from signal controller power, so overbuilding with #3 JB next to existing poly JB is recommended to pick up SL.						
TRAFFIC SIGNAL & STREET LIGHTING		20	TDM	please show utilities/water/fire hydrant as previously discussed		GNEC	Existing hydrant is shown on our drawings, it is located by pole 6/24	Open		
DESIGN - PAGE 5 TRAFFIC SIGNAL &		21	TEOD	Pole not being removed anymore, so no need to disconnect.		GNEC	updated	Closed	is it ok to be that close?	
STREET LIGHTING DESIGN - PAGE 5		<del>-</del> -		. 5.5 not being removed diffinite, so no nodu to disconnect.			υρυαίου	0.000		

TRAFFIC SIGNAL & STREET LIGHTING DESIGN - PAGE 5	22	TEOD	Is this luminare being transferred to wood pole 10/13?	GNEC	Yes, note has been updated to reflect this	Closed
DESIGN - PAGE 5						
TRAFFIC SIGNAL & STREET LIGHTING	23	TDM	to be updated to match the TSR (E/W left turn )	GNEC	updated	Closed
DESIGN - PAGE 5						

\*Action Item Correct Additional Information Required

Status Open Closed

ocument Title: Comment Resolution Sheet for South Granville Stage 1 - Traffic Signal & Street Lighting Design	Document Number:		
SUBMISSION REVIEW FORM			
SUBMISSION REVIEW FORM			

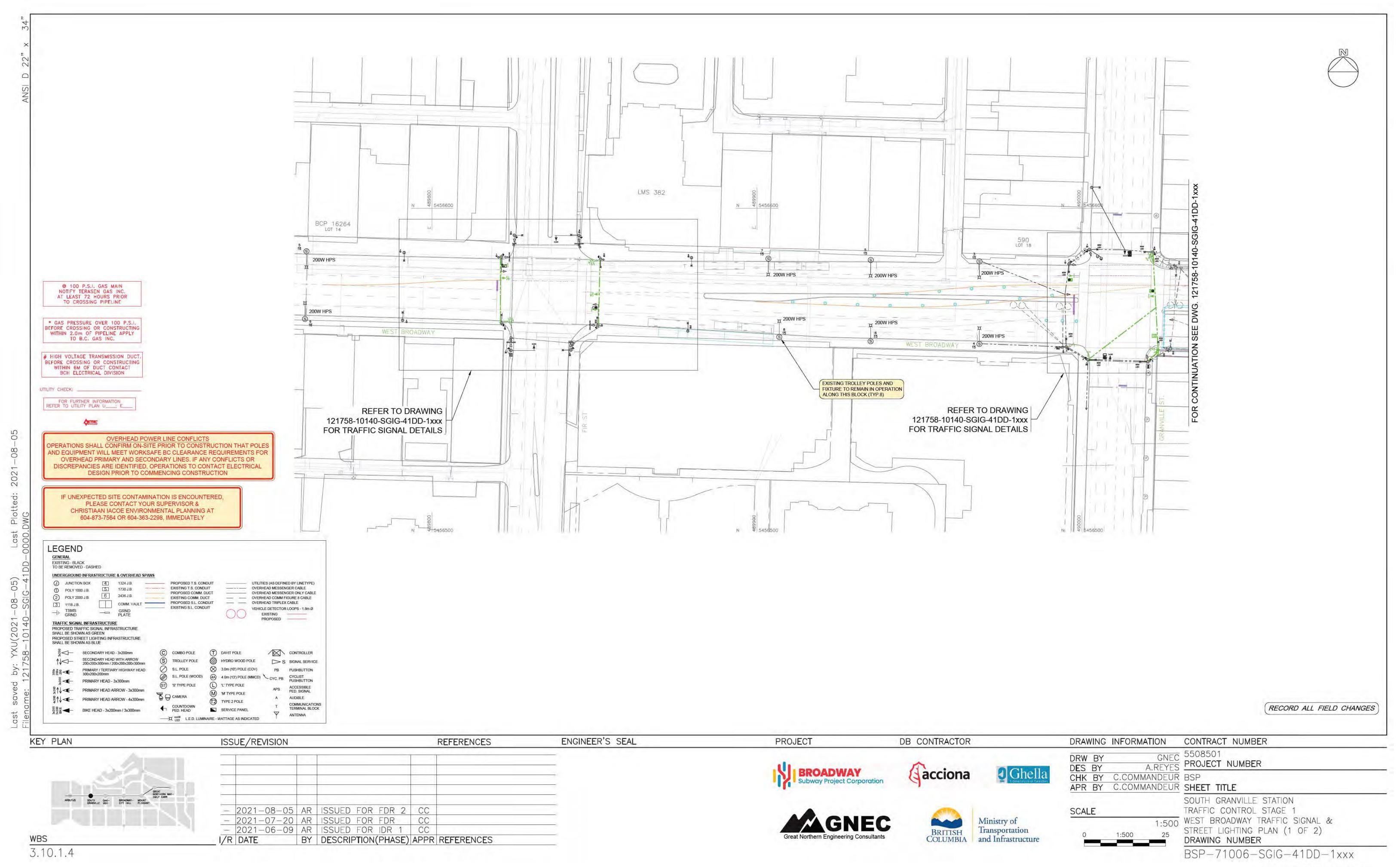
				SUBMISS	ION REVIEW I	FORM			]
	ct Broadway Subway Pro			1	Progress	: NA	Response Date		
Document Name	e: South Granville Stage 1	1 - Traffic Signal & S	Street Lighting	Su	ıbmittal Status		Submittal No.		-
		REVIEWED	Submittals that appe	ear to conform to the requirements of the Agreement, including the Design and Cor	nstruction Specifica	ations and the Pro	popsal Extracts (Design and Construction)		
		KEVIEWED	Cubilinaa allaa appa	to como m to the requirement of the rigidement, meading the Beergh and Co.	описноп ороспис	and the fire	pool Entable (Boogh and Constitution)		
	CORR	ECT DEFICIENCIES	Submittals that apperent	ear to generally conform to the requirements of the Agreement, including the Design	n and Construction	n Specifications a	nd the Proposal Extracts (Design and Construction) but in which deficiencies have been found and identified by the Province's		
		REJECTED	Submittals that cont	tain significant deficiencies or do not generally conform to the requirements of the A	agreement, includir	ng the Design and	Construction Specifications and the Proposal Extracts (Design and Construction)		1
		NOT REVIEWED		e not been reviewed by the Province in detail because the Submittals does not com- ore the date scheduled in the Submittal Schedule.	nply with the require	ements of Schedu	ule 2 [Review and Consent Procedure] are incomplete or otherwise insufficient for the purposes of a Design review, or are received		
Doc. Ref.	Relevant PA Clause	Comment No.	Reviewer Name	Review Comment	Action Item*	Responder Name	Response	Status	
TRAFFIC SIGNAL &		1	TEOD	Add note (in red text - for COV crews): DISCONNECT SL CONDUCTORS BETWEEN	Correct	AR	Corrected	Closed	
STREET LIGHTING DESIGN - PAGE 1				11/14 AND 9/14					
TRAFFIC SIGNAL & STREET LIGHTING		2	TEOD	One poles to the East are removed, 11/14 and 12/14 will poles will lose SL power. Add triplex from 8/24 and the temp wood poles to provide SL connections, or install additional	Correct	AR	Pole 12/14 luminaire was re-fed from #2/25 . Pole 11/14 was removed, will verify lighting levels and adding potential luminaire to pole 8/24 to face south	Closed	
DESIGN - PAGE 1			TEOD	SL arms.	0	140		Olered	
TRAFFIC SIGNAL & STREET LIGHTING		3	TEOD	Add note (in red text - for COV crews): DISCONNECT SL CONDUCTORS BETWEEN 12/14 AND 10/14	Correct	AR	Corrected	Closed	
DESIGN - PAGE 1		4	TEOD		Correct	AD	Compated	Closed	4
TRAFFIC SIGNAL & STREET LIGHTING		4	TEOD	Add note (in red text - for COV crews): DISCONNECT SL CONDUCTORS BETWEEN 19/14 AND 11/14	Correct	AK	Corrected	Closed	
DESIGN - PAGE 2 TRAFFIC SIGNAL &		5	TEOD		Correct	ΔR	Corrected	Closed	4
STREET LIGHTING		5	1500	Please add note that these poles are only to be removed once temporary lighting is in place.	Correct	AK	Corrected	Closed	
DESIGN - PAGE 2 TRAFFIC SIGNAL &		6	TEOD	Add note (in red text - for COV crews): DISCONNECT SL CONDUCTORS BETWEEN	Correct	AR	Corrected	Closed	-
STREET LIGHTING			1200	10/14 AND 12/14	Concor	740	Concoca	Ciosca	
DESIGN - PAGE 2 TRAFFIC SIGNAL &		7	TEOD	FYI existing SL connections shows in dashed-blue line	Correct	AR	Corrected, ex conduit added	Closed	-
STREET LIGHTING			.205	The state and th	00.1001		Controlled, on contain added	0.0000	
DESIGN - PAGE 2 TRAFFIC SIGNAL &		8	TEOD	Pole 7/13 will need to be removed as well and wires disconnected between 7/13 and 5/13.	Correct	AR	Corrected. as part of signal drawing	Closed	+
STREET LIGHTING									
DESIGN - PAGE 2 TRAFFIC SIGNAL &		9	TDM	is the capacity ok without left turn phases? If we need both left turn phases, cabinet to be		MP	Will provide Protected Opposing Left Turn Phase except at night time - confirmed controller can accommodate third	Open	-
STREET LIGHTING DESIGN - PAGE 3				upgraded			phase.	1	
TRAFFIC SIGNAL &		10	TDM	confirm this head meets cone of vision requirements for the left turn bay	Correct	AR	Added extra head to meet cone of vision and span wires	Closed	1
STREET LIGHTING DESIGN - PAGE 3									
TRAFFIC SIGNAL &		11	TDM	plan view shows SBRT wanting to remain? if so, show in phasing	Correct	AR	SBRT removed	Closed	1
STREET LIGHTING DESIGN - PAGE 4									
TRAFFIC SIGNAL &		12	TDM	since EBLT is being removed, the SBRT overlap would also be removed. Is the idea to	Correct	AR	SBRT removed	Closed	1
STREET LIGHTING DESIGN - PAGE 4				keep it?					
TRAFFIC SIGNAL &		13	TDM	move ped head to inside of intersection (other side of the pole) for better ped visibility	Correct	AR	Corrected	Closed	1
STREET LIGHTING DESIGN - PAGE 4									
TRAFFIC SIGNAL & STREET LIGHTING		14	TEOD	Return LED luminaire to COV National Yard.	Correct	AR	Corrected	Closed	
DESIGN - PAGE 4									
TRAFFIC SIGNAL & STREET LIGHTING		15	TEOD	Add note (in red text - for COV crews): DISCONNECT SL CONDUCTORS BETWEEN 11/14 AND 9/14	Correct	AR	Corrected	Closed	
DESIGN - PAGE 4						ļ			4
TRAFFIC SIGNAL & STREET LIGHTING		16	TEOD	One poles to the East are removed, 11/14 and 12/14 will poles will lose SL power. Add triplex from 8/24 and the temp wood poles to provide SL connections, or install additional	Correct	AR	Pole 12/14 luminaire was re-fed from #2/25 . Pole 11/14 was removed, will verify lighting levels and adding potential luminaire to pole 8/24 to face south	Closed	
DESIGN - PAGE 4		47	TEOD	SL arms.	0	100		Oleand	4
TRAFFIC SIGNAL & STREET LIGHTING		17	TEOD	Add note (in red text - for COV crews): DISCONNECT SL CONDUCTORS BETWEEN 12/14 AND 10/14	Correct	AR	Corrected	Closed	
DESIGN - PAGE 4		10	TDM	rationale for offset from curb? would like to maximize sidewalk width/accessibility as much	Corroct	AD	The pole is shown right habited proposed out to sucid seeffict with size above mounted as building	Closed	4
TRAFFIC SIGNAL & STREET LIGHTING		18	TDM	as possible if possible	Correct	AR	The pole is shown right behind proposed curb to avoid conflict with sign above mounted on building	Closed	
DESIGN - PAGE 4 TRAFFIC SIGNAL &		19	TEOD	Note: 4 intersection poles on Broadway are current supporting CMBC turn wires.	Correct	ΔR	Note box added to drawing to coordinate with CMBC for the relocation of existing support trolley wires	Closed	4
STREET LIGHTING		1.3	1.200	Trock. 4 intersection poles on broadway are current supporting GNIDG turn wires.	Soliect	AIX	Hote box added to drawing to coordinate with Giribo for the relocation of existing support trolley wires	Jused	
DESIGN - PAGE 5 TRAFFIC SIGNAL &		20	TEOD	Return LED luminaire to COV National Yard.	Correct	ΔR	LED luminiare has been noted as relocate to new pole	Closed	-
STREET LIGHTING		20	1.200	TOTAL ELD MINIMARIO IO CON MARIONAL FAIG.	Correct	740	LED rummare has been noted as relocate to new pole	Cioseu	
DESIGN - PAGE 5 TRAFFIC SIGNAL &	+	21	TEOD	Return LED luminaire to COV National Yard.	Correct	AR	LED luminiare has been noted as relocate to new pole	Closed	4
STREET LIGHTING							East initial and soon rotted to home pole		
DESIGN - PAGE 5 TRAFFIC SIGNAL &		22	TEOD	Intercept existing SL conduit and install #3 JB and 1-53mm RPVC to wood pole for SL	Additional	AR	Currently it seems that the lighting conductors are coming from the service panel to the north on the laneway and conduit seems to be connected	Open	1
STREET LIGHTING				feed.	Information		to the existing Type 1 JB which should have existing lighting conductors already. GIS does not show more information. Lighting records would be	Sport	L
DESIGN - PAGE 5 TRAFFIC SIGNAL &		23	TDM	please move ped head and EB secondary to this other pole (1/25), they are too far from	Required Correct	AR	required to fully confirm or site investigation if possible confirmation by City Crews?  ped heads and EB secondary relocated to existing pole	Closed	See new con
STREET LIGHTING			. 5	cross walk alignment and road alignment for visibility	3011001		pod riodad dira Ed docorrodity retocated to existing pore	3.0004	
DESIGN - PAGE 5 TRAFFIC SIGNAL &		24	TDM	base plan doesn't match either of the hemlock geometric options. Update based on final	Correct	AR	Base plan was updated with latest civil	Closed	-
STREET LIGHTING			1.5	option decision TDM will review in full again once updated	1 - 5.1.001		poor mos apuliou mui turost orni		

TRAFFIC SIGNAL &	25	TEOD	Add SL conductors on span to feed 9/13 and wood pole 10/13	Correct	AR	Lighting conductors have been called out on the east span wire	Open	Ī
STREET LIGHTING							1	
DESIGN - PAGE 5								See new comments
TRAFFIC SIGNAL &	26	TDM	if this wood pole will eventually take all of the equipment from pole 1/25, please move	Correct	AR	The pole was shown here since it will be in conflict with later stages letdown/South crosswalk if moved further north. The equipment can be	Closed	
STREET LIGHTING			closer to the intersection/curb for better visibility			relocated to this pole in later stages as needed.		
DESIGN - PAGE 5								ok but keep the WB left side secondary visibiltiy in mind for future stages
TRAFFIC SIGNAL &	27	TEOD	Existing TSMS U/G through TS conduit	Correct	AR	Correct. Conduit now shown	Closed	
STREET LIGHTING								
DESIGN - PAGE 5								
TRAFFIC SIGNAL &	28	TDM	but there are left turn bays/arrowsplease confirm	Correct	AR	Corrected. Removed callouts	Closed	
STREET LIGHTING								
DESIGN - PAGE 5								
TRAFFIC SIGNAL &	29	TEOD	Return LED luminaire to COV National Yard.	Correct	AR	<u>Corrected</u>	Closed	
STREET LIGHTING								
DESIGN - PAGE 5								
TRAFFIC SIGNAL &	30	TDM	what is happening with utilities/water/fire hydrant?	Additional	AR	This is in progress, utilities will be shown next submission	Open	
STREET LIGHTING				Information				
DESIGN - PAGE 5				Required				
TRAFFIC SIGNAL &	31	TEOD	Add note (in red text - for COV crews): DISCONNECT SL CONDUCTORS BETWEEN	Correct	AR	Corrected	Closed	
STREET LIGHTING			9/13 AND 7/13.		1		1	
DESIGN - PAGE 5								
TRAFFIC SIGNAL &	32	TEOD	Pole 7/13	Correct	AR	Corrected	Closed	
STREET LIGHTING								
DESIGN - PAGE 5								
TRAFFIC SIGNAL &	33	TEOD	TSMS cable is run aerially along poles from Birch to Hemlock, then goes U/G at pole 9/13,		AR	Corrected	Closed	
STREET LIGHTING			into the JB, then across Broadway into controller. TSMS will need to be re-fed from Birch in	n				
DESIGN - PAGE 5			new conduit or via spans on poles that are not being removed.					
TRAFFIC SIGNAL &	34	TEOD	Add note (in red text - for COV crews): DISCONNECT SL CONDUCTORS BETWEEN	Correct	AR	Corrected	Closed	
STREET LIGHTING			10/13 AND 8/13.					
DESIGN - PAGE 5								
TRAFFIC SIGNAL &	35	TEOD	Return LED luminaire to COV National Yard.	Correct	AR	Corrected	Closed	
STREET LIGHTING								
DESIGN - PAGE 5				-				
TRAFFIC SIGNAL &	36	TEOD	(in red text - for COV crews): CONNECT NEW SIGNAL CABLES TO TRAFFIC	Correct	AR	Corrected	Closed	
STREET LIGHTING			CONTROLLER. DISCONNECT OLD CABLES IF NECESSARY.					
DESIGN - PAGE 5		TEOD	1 : 1 TOMO : 4/40 W D				0	<u> </u>
TRAFFIC SIGNAL & STREET LIGHTING	38	TEOD	Aerial TSMS to 1/13 W Broadway (at Birch)	Correct	AR	Corrected. Shown up to pole 7/13 within viewport	Closed	
DESIGN - PAGE 5								
TRAFFIC SIGNAL &	27	TEOD	Pole 5/13	A dditional	AD	5/42 is bound the extends will extend viewent if accessory	Classed	_
STREET LIGHTING	37	TEOD	Pole 5/13	Additional Information	AR	5/13 is beyond the extends, will extend viewport if necessary	Closed	
DESIGN - PAGE 5				Required				
DESIGN - PAGE 5				Required				-
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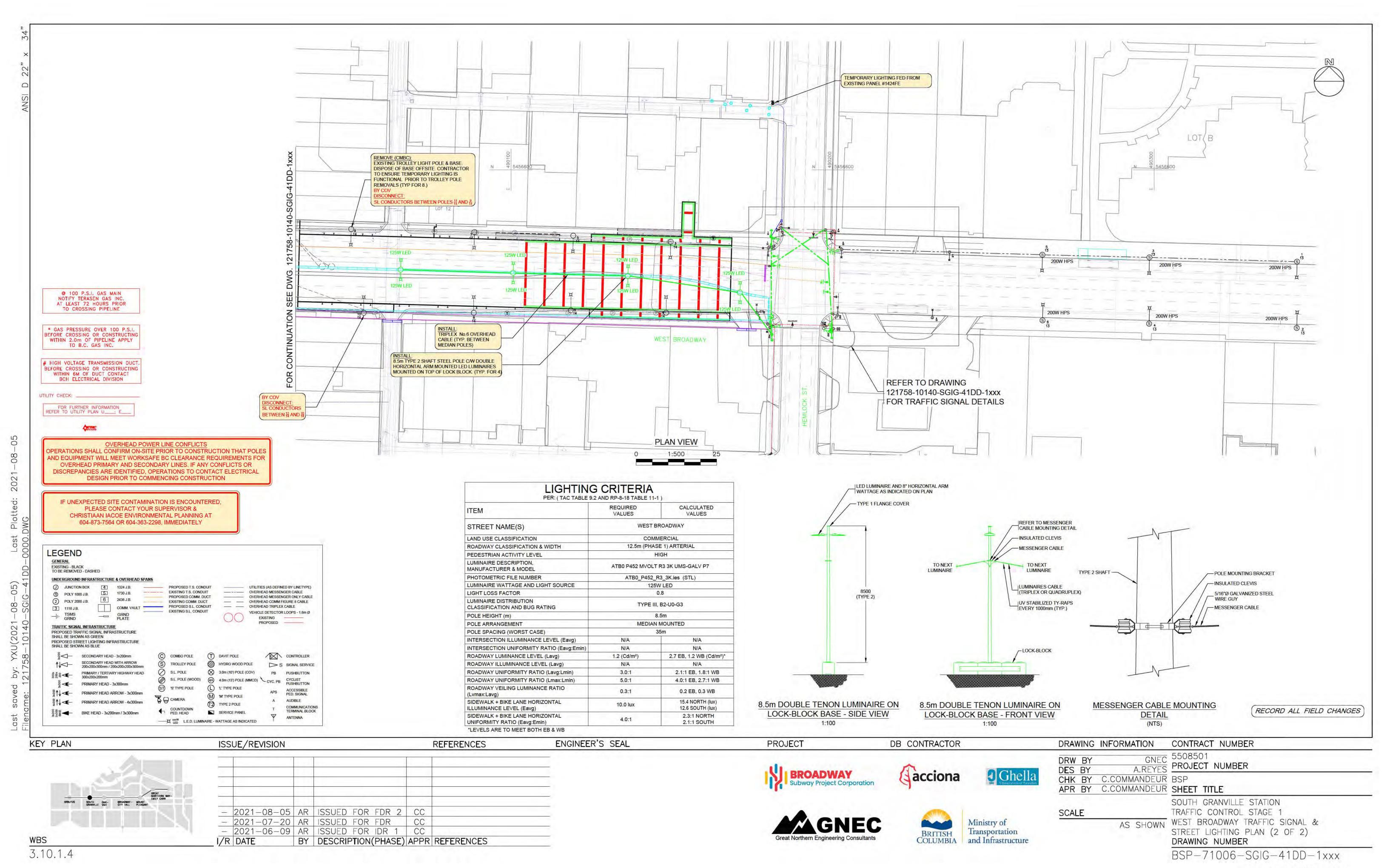
\*Action Item

Correct Additional Information Required

Status Open Closed



City of Vancouver - FOI 2022-657 - Page 11 of 23



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UNDERGROUND INFRASTRUCTURE & OVERHEAD SPANS

① POLY 1000 J.B.

2 POLY 2000 J.B.

TRAFFIC SIGNAL INFRASTRUCTURE

PROPOSED TRAFFIC SIGNAL INFRASTRUCTURE

PROPOSED STREET LIGHTING INFRASTRUCTURE SHALL BE SHOWN AS BLUE

SECONDARY HEAD - 3x200mm

₹ PRIMARY HEAD - 3x300mm

PRIMARY HEAD ARROW - 3x300mm

PRIMARY HEAD ARROW - 4x300mm

BIKE HEAD - 3x200mm / 3x300mm

SECONDARY HEAD WITH ARROW

PRIMARY / TERTIARY HIGHWAY HEAD

3 1118 J.B.

-| TSMS GRND

1730 J.B.

2436 J.B.

EXISTING T.S. CONDUIT

EXISTING COMM. DUCT

EXISTING S.L. CONDUIT

(C) COMBO POLE

S.L. POLE

A CAMERA

TROLLEY POLE

S.L. POLE (WOOD)

COMM. VAULT PROPOSED S.L. CONDUIT

PROPOSED COMM. DUCT

(T) DAVIT POLE

HYDRO WOOD POLE

3.0m (10') POLE (COV)

M 'M' TYPE POLE

SERVICE PANEL

TYPE 2 POLE

XXXW L.E.D. LUMINAIRE - WATTAGE AS INDICATED

(4A) 4.0m (13') POLE (MMCD) CYC. PB

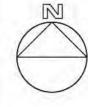
# NOTES:

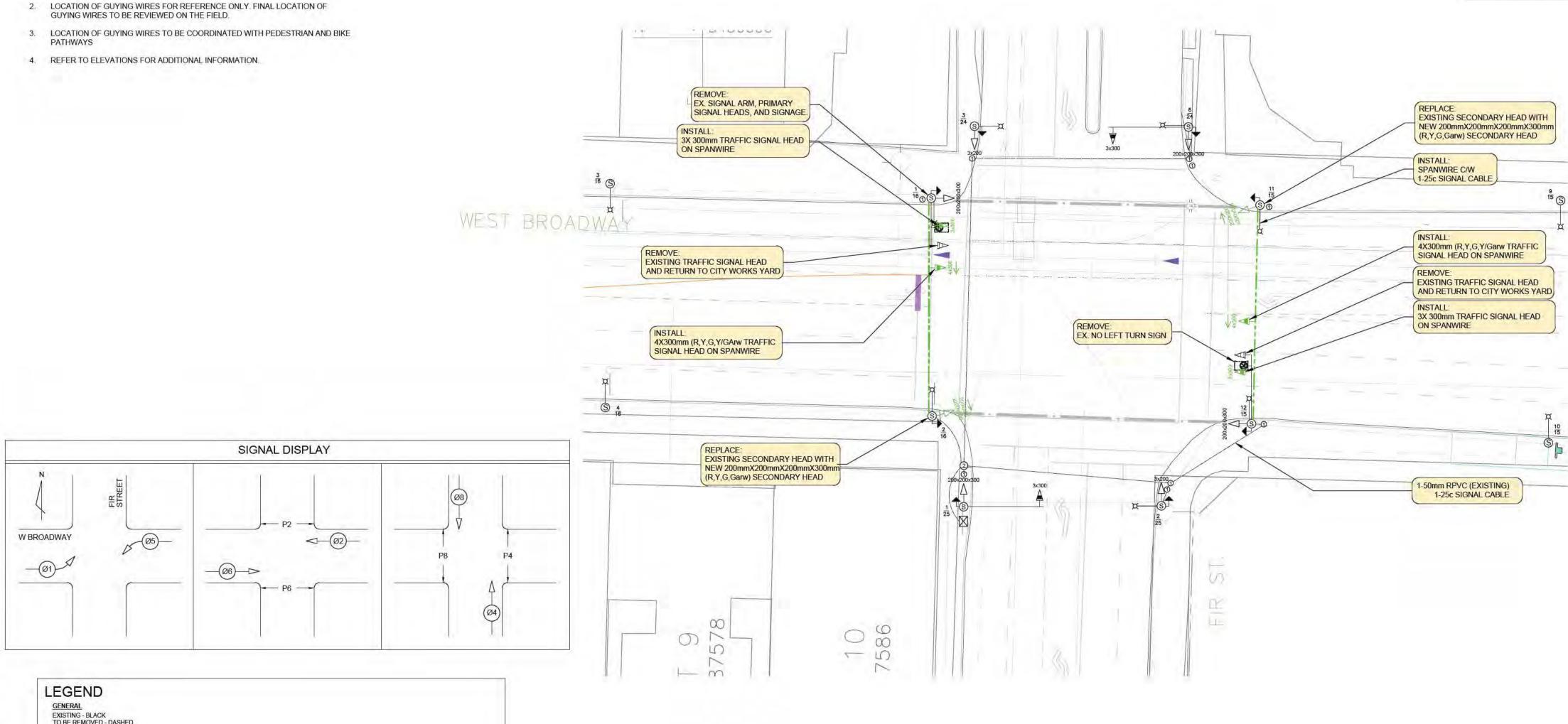
- COV TO COMPLETE THE WIRING CONNECTIONS TO THE TRAFFIC CONTROLLER.
- COV ELECTRICAL CREWS TO ASSIST WITH CUTTING INTO EXISTING LIVE STREETLIGHT WIRES AND MAKING FINAL CONNECTIONS
- 3. REFER TO POLE ELEVATIONS FOR REQUIRED TRAFFIC SIGNAL HEADS

## POLE GUYING NOTES:

REFER TO BC HYDRO ES43 OVERHEAD ELECTRICAL STANDARDS FOR WOOD POLES, OVERHEAD INSTALLATION AND POLE GUYING.

CONTRACTOR TO WIRE ALL NEW SIGNAL EQUIPMENT PER CITY WIRING STANDARDS DOWN TO POLE HANDHOLES. CONTRACTOR TO COORDINATE WITH COV PRIOR TO MODIFYING/REWIRING OF EXISTING UNDERGROUND CONDUITS AND EXISTING SIGNAL INFRASTRUCTURE. COV TO PERFORM ALL DISCONNECTIONS OF EXISTING SIGNALS AND FINAL CONNECTION OF ALL NEW SIGNAL EQUIPMENT. COORDINATE WITH ELECTRICAL OPS electrical.ops.scheduling.supervisor@vancouver.ca





CONTRACTOR TO ENSURE ALL EXISTING COMMUNICATIONS ARE MAINTAINED AT ALL TIMES DURING CONSTRUCTION, COORDINATE WITH CITY OF VANCOUVER.

> DO NOT USE THIS DRAWING FOR PAVEMENT MARKING AND SIGNING STANDARDS

ALL SIGNAL EQUIPEMENT SHALL BE BONDED

ALL OVERHEAD INSTALLATION TO FOLLOW BC HYDRO OVERHEAD STANDARDS

PERATIONS SHALL CONFIRM ON-SITE PRIOR TO CONSTRUCTION THAT POLES AND EQUIPMENT WILL MEET WORKSAFE BC CLEARANCE REQUIREMENTS FOR OVERHEAD PRIMARY AND SECONDARY LINES. IF ANY CONFLICTS OR DISCREPANCIES ARE IDENTIFIED, OPERATIONS TO CONTACT ELECTRICAL DESIGN PRIOR TO COMMENCING CONSTRUCTION

> IF UNEXPECTED SITE CONTAMINATION IS ENCOUNTERED, PLEASE CONTACT YOUR SUPERVISOR & CHRISTIAAN IACOE ENVIRONMENTAL PLANNING AT 604-873-7564 OR 604-363-2298, IMMEDIATELY

ISSUE/REVISION KEY PLAN ENGINEER'S SEAL REFERENCES - 2021-08-05 AR ISSUED FOR FDR 2 CC 2021-07-20 AR ISSUED FOR FDR 2021-06-09 AR ISSUED FOR IDR 1 BY DESCRIPTION(PHASE) APPR REFERENCES I/R DATE

---- OVERHEAD MESSENGER CABLE

OVERHEAD COMM FIGURE 8 CABLE

OVERHEAD TRIPLEX CABLE

OVERHEAD MESSENGER ONLY CABLE

VEHICLE DETECTOR LOOPS - 1.8m Ø

EXISTING PROPOSED -

CONTROLLER

S SIGNAL SERVICE

PB PUSHBUTTON

A AUDIBLE

CYCLIST PUSHBUTTON

COMMUNICATIONS TERMINAL BLOCK

ANTENNA

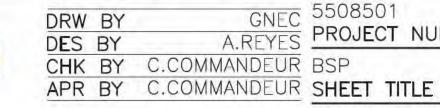
BROADWAY

PROJECT



DB CONTRACTOR





SCALE

DRAWING INFORMATION CONTRACT NUMBER GNEC 5508501 A.REYES PROJECT NUMBER SOUTH GRANVILLE STATION

TRAFFIC CONTROL STAGE 1 1:250 FIR STREET AT WEST BROADWAY TRAFFIC SIGNAL PLAN (1 OF 1) DRAWING NUMBER

BSP-71006-SGIG-41DD-1xxx



Ministry of Transportation and Infrastructure

# by: YXU(2021-08-05) 21758-10140-SGIG-41DDsaved Last

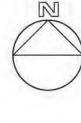
NOTES:

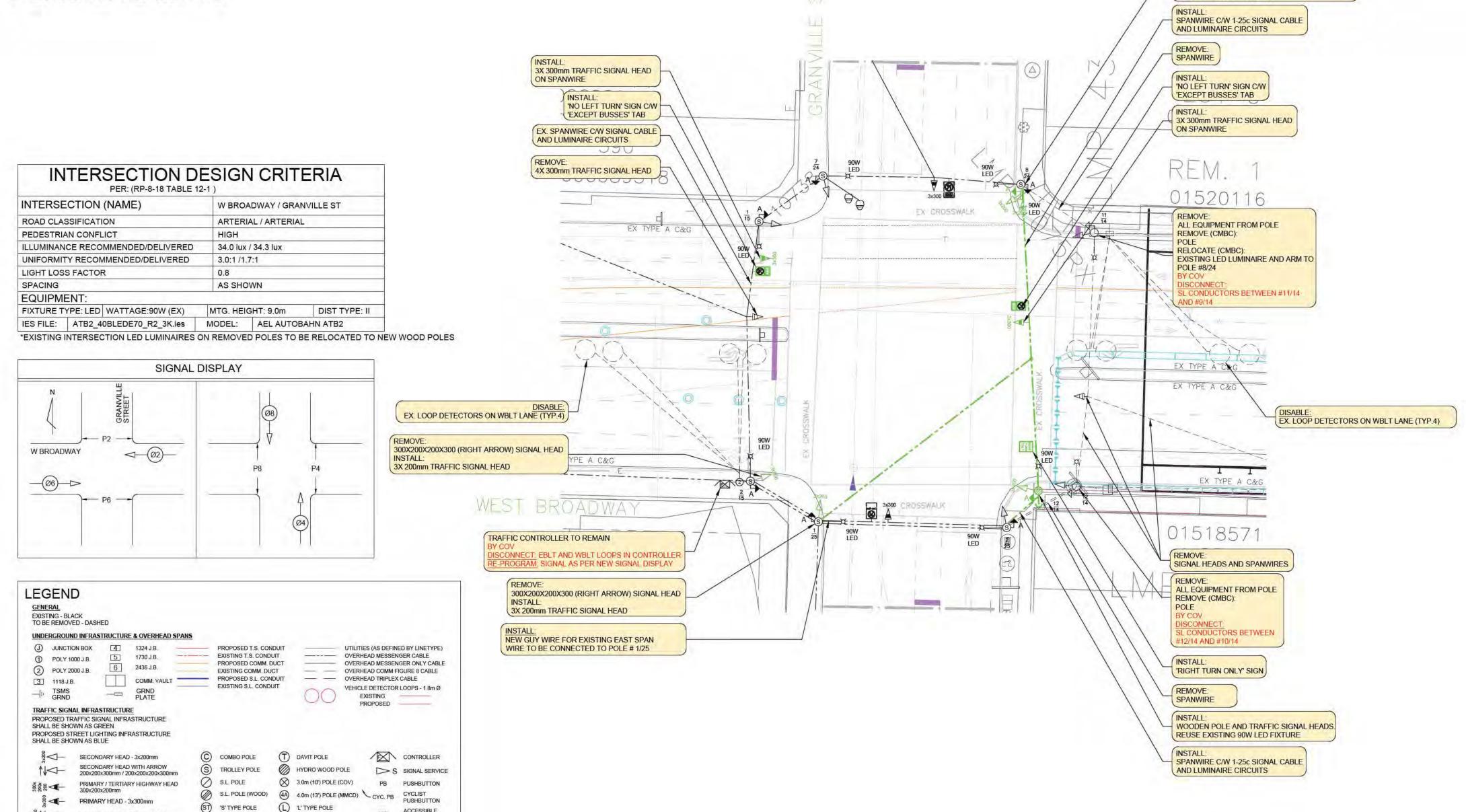
- 1. COV TO COMPLETE THE WIRING CONNECTIONS TO THE TRAFFIC CONTROLLER
- COV ELECTRICAL CREWS TO ASSIST WITH CUTTING INTO EXISTING LIVE STREETLIGHT WIRES AND MAKING FINAL CONNECTIONS
- 3. REFER TO POLE ELEVATIONS FOR REQUIRED TRAFFIC SIGNAL HEADS

# POLE GUYING NOTES:

- REFER TO BC HYDRO ES43 OVERHEAD ELECTRICAL STANDARDS FOR WOOD POLES, OVERHEAD INSTALLATION AND POLE GUYING.
- 2. LOCATION OF GUYING WIRES FOR REFERENCE ONLY, FINAL LOCATION OF GUYING WIRES TO BE REVIEWED ON THE FIELD.
- LOCATION OF GUYING WIRES TO BE COORDINATED WITH PEDESTRIAN AND BIKE
- 4. REFER TO ELEVATIONS FOR ADDITIONAL INFORMATION.

CONTRACTOR TO WIRE ALL NEW SIGNAL EQUIPMENT PER CITY WIRING STANDARDS DOWN TO POLE HANDHOLES. CONTRACTOR TO COORDINATE WITH COV PRIOR TO MODIFYING/REWIRING OF EXISTING UNDERGROUND CONDUITS AND EXISTING SIGNAL INFRASTRUCTURE COV TO PERFORM ALL DISCONNECTIONS OF EXISTING SIGNALS AND FINAL CONNECTION OF ALL NEW SIGNAL EQUIPMENT. COORDINATE WITH ELECTRICAL OPS electrical.ops.scheduling.supervisor@vancouver.ca





ENGINEER'S SEAL

CONTRACTOR TO ENSURE ALL EXISTING COMMUNICATIONS ARE MAINTAINED AT ALL TIMES DURING CONSTRUCTION, COORDINATE WITH CITY OF VANCOUVER.

> DO NOT USE THIS DRAWING FOR PAVEMENT MARKING AND SIGNING STANDARDS

ALL SIGNAL EQUIPEMENT SHALL BE BONDED

ALL OVERHEAD INSTALLATION TO FOLLOW BC HYDRO OVERHEAD **STANDARDS** 

OVERHEAD POWER LINE CONFLICTS PERATIONS SHALL CONFIRM ON-SITE PRIOR TO CONSTRUCTION THAT POLES AND EQUIPMENT WILL MEET WORKSAFE BC CLEARANCE REQUIREMENTS FOR OVERHEAD PRIMARY AND SECONDARY LINES. IF ANY CONFLICTS OR DISCREPANCIES ARE IDENTIFIED, OPERATIONS TO CONTACT ELECTRICAL DESIGN PRIOR TO COMMENCING CONSTRUCTION

> IF UNEXPECTED SITE CONTAMINATION IS ENCOUNTERED. PLEASE CONTACT YOUR SUPERVISOR & CHRISTIAAN IACOE ENVIRONMENTAL PLANNING AT 604-873-7564 OR 604-363-2298, IMMEDIATELY

BROADWAY

BY DESCRIPTION(PHASE) APPR REFERENCES

REFERENCES



DB CONTRACTOR

BRITISH

COLUMBIA

PROJECT

300X200X200X300 (RIGHT ARROW) SIGNAL HEAD

AND ARM (FACING SOUTH)

3X 200mm TRAFFIC SIGNAL HEADS (2), RELOCATED PEDESTRIAN HEAD, AND RELOCATED LUMINAIRE



Ministry of

Transportation

and Infrastructure



CHK BY C.COMMANDEUR BSP APR BY C.COMMANDEUR SHEET TITLE

DRAWING INFORMATION

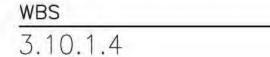
SCALE

CONTRACT NUMBER GNEC 5508501 A.REYES PROJECT NUMBER

SOUTH GRANVILLE STATION

TRAFFIC CONTROL STAGE 1 1:250 GRANVILLE STREET AT WEST BROADWAY TRAFFIC SIGNAL PLAN (1 OF 1)

DRAWING NUMBER BSP-71006-SGIG-41DD-1xxx



KEY PLAN

PRIMARY HEAD ARROW - 3x300mm

PRIMARY HEAD ARROW - 4x300mm

BIKE HEAD - 3x200mm / 3x300mm

(M) 'M' TYPE POLE

SERVICE PANEL

ISSUE/REVISION

TYPE 2 POLE

I/R DATE

XXXW L.E.D. LUMINAIRE - WATTAGE AS INDICATED

A AUDIBLE

COMMUNICATIONS TERMINAL BLOCK

- 2021-08-05 AR ISSUED FOR FDR 2 CC

2021-06-09 AR ISSUED FOR IDR 1

2021-07-20 AR ISSUED FOR FDR CC

ANTENNA

CAMERA

City of Vancouver - FOI 2022-657 - Page 14 of 23

-05

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05)

saved

Last

KEY PLAN

3.10.1.4

**EQUIPMENT** 

FIXTURE TYPE: LED WATTAGE:70W

1. COV TO COMPLETE THE WIRING CONNECTIONS TO THE TRAFFIC CONTROLLER

COV ELECTRICAL CREWS TO ASSIST WITH CUTTING INTO EXISTING LIVE STREETLIGHT WIRES AND MAKING FINAL CONNECTIONS

3. REFER TO POLE ELEVATIONS FOR REQUIRED TRAFFIC SIGNAL HEADS

# POLE GUYING NOTES:

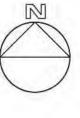
REFER TO BC HYDRO ES43 OVERHEAD ELECTRICAL STANDARDS FOR WOOD POLES, OVERHEAD INSTALLATION AND POLE GUYING.

2. LOCATION OF GUYING WIRES FOR REFERENCE ONLY. FINAL LOCATION OF GUYING WIRES TO BE REVIEWED ON THE FIELD.

LOCATION OF GUYING WIRES TO BE COORDINATED WITH PEDESTRIAN AND BIKE

4. REFER TO ELEVATIONS FOR ADDITIONAL INFORMATION.

CONTRACTOR TO WIRE ALL NEW SIGNAL EQUIPMENT PER CITY WIRING STANDARDS DOWN TO POLE HANDHOLES. CONTRACTOR TO COORDINATE WITH COV PRIOR TO MODIFYING/REWIRING OF EXISTING UNDERGROUND CONDUITS AND EXISTING SIGNAL INFRASTRUCTURE. COV TO PERFORM ALL DISCONNECTIONS OF EXISTING SIGNALS AND FINAL CONNECTION OF ALL NEW SIGNAL EQUIPMENT. COORDINATE WITH ELECTRICAL OPS electrical.ops.scheduling.supervisor@vancouver.ca



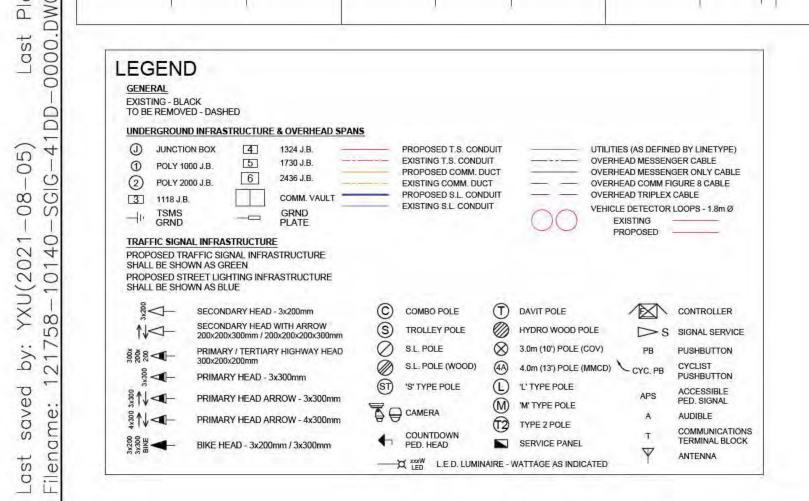
## INTERSECTION DESIGN CRITERIA INTERSECTION (NAME) W BROADWAY / HEMLOCK STREET ROAD CLASSIFICATION ARTERIAL / COLLECTOR PEDESTRIAN CONFLICT ILLUMINANCE RECOMMENDED/DELIVERED 29.0 lux / 30.5 lux UNIFORMITY RECOMMENDED/DELIVERED 3.0:1 / 2.3:1 LIGHT LOSS FACTOR SPACING AS SHOWN

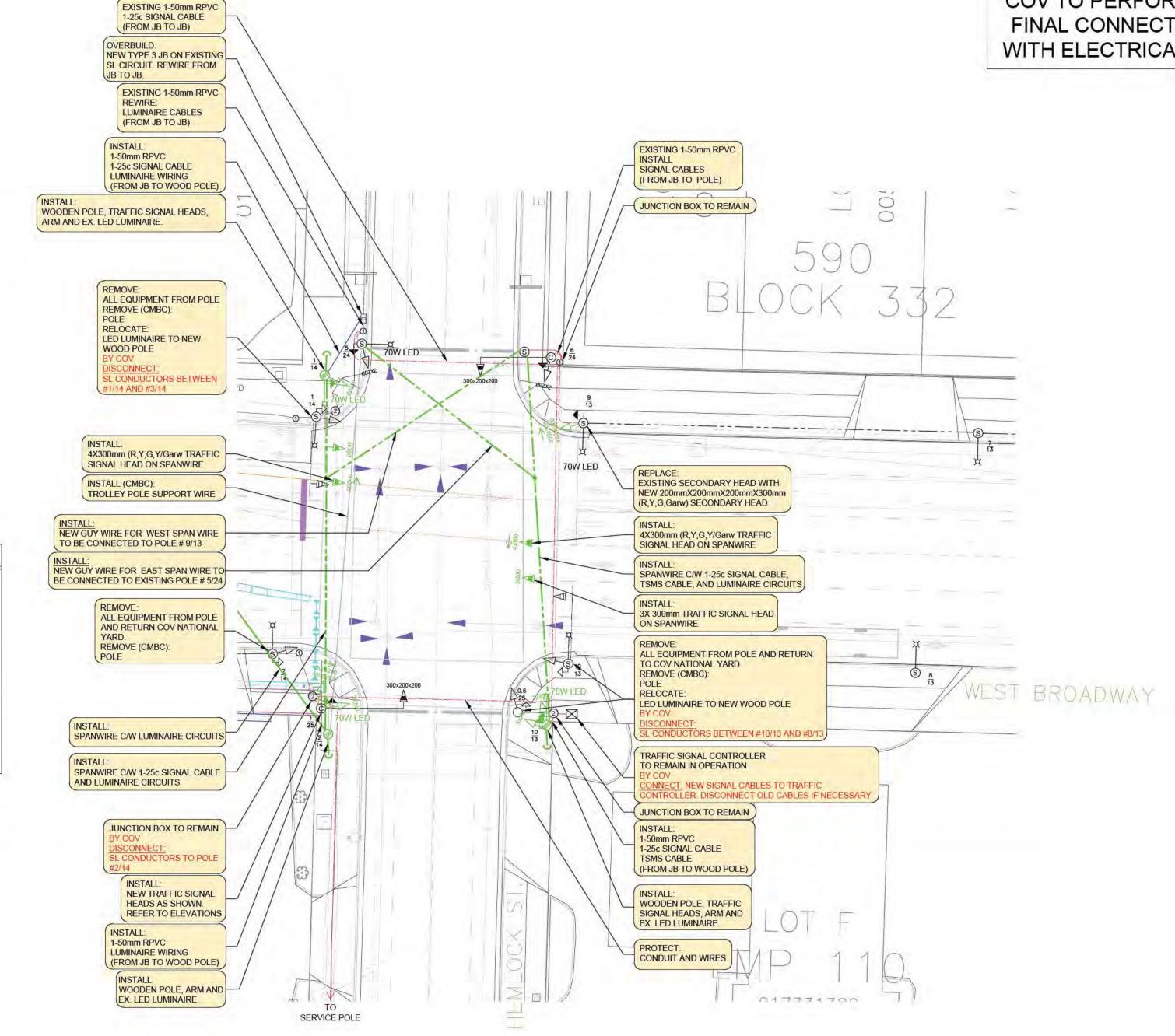
IES FILE: ATB0\_30BLEDE70\_R2\_3K.ies MODEL: AEL AUTOBAHN ATB0 \*EXISTING INTERSECTION LED LUMINAIRES ON REMOVED POLES TO BE RELOCATED TO NEW WOOD POLES

MTG. HEIGHT: 9.0m

DIST TYPE: II

SIGNAL DISPLAY W BROADWAY





CONTRACTOR TO COORDINATE WITH CMBC FOR THE RELOCATION OF TROLLEY SUPPORT WIRES

CONTRACTOR TO ENSURE ALL EXISTING COMMUNICATIONS ARE MAINTAINED AT ALL WITH CITY OF VANCOUVER.

> DO NOT USE THIS DRAWING FOR PAVEMENT MARKING AND SIGNING STANDARDS

> ALL SIGNAL EQUIPEMENT SHALL BE BONDED

ALL OVERHEAD INSTALLATION TO FOLLOW BC HYDRO OVERHEAD STANDARDS

PERATIONS SHALL CONFIRM ON-SITE PRIOR TO CONSTRUCTION THAT POLES AND EQUIPMENT WILL MEET WORKSAFE BC CLEARANCE REQUIREMENTS FOR OVERHEAD PRIMARY AND SECONDARY LINES. IF ANY CONFLICTS OR DISCREPANCIES ARE IDENTIFIED, OPERATIONS TO CONTACT ELECTRICAL DESIGN PRIOR TO COMMENCING CONSTRUCTION

> IF UNEXPECTED SITE CONTAMINATION IS ENCOUNTERED, PLEASE CONTACT YOUR SUPERVISOR & CHRISTIAAN IACOE ENVIRONMENTAL PLANNING AT 604-873-7564 OR 604-363-2298, IMMEDIATELY

ENGINEER'S SEAL ISSUE/REVISION REFERENCES - 2021-08-05 AR ISSUED FOR FDR 2 CC 2021-07-20 AR ISSUED FOR FDR 2021-06-09 AR ISSUED FOR IDR 1 BY DESCRIPTION(PHASE) APPR REFERENCES I/R DATE

**BROADWAY** 

PROJECT



DB CONTRACTOR



DES BY CHK BY C.COMMANDEUR BSP APR BY C.COMMANDEUR SHEET TITLE

DRAWING INFORMATION

SCALE

CONTRACT NUMBER GNEC 5508501 A.REYES PROJECT NUMBER

SOUTH GRANVILLE STATION TRAFFIC CONTROL STAGE 1 1:250 HEMLOCK STREET AT WEST BROADWAY TRAFFIC SIGNAL PLAN (1 OF 1) DRAWING NUMBER

BSP-71006-SGIG-41DD-1xxx



Ministry of Transportation and Infrastructure

INSTALL: NEW SPAN WIRE BETWEEN UV STABILIZED TY-RAPS NEW 3X300mm EVERY 1000mm (TYP.) TRAFFIC SIGNAL HEAD REMOVE: 3X 300mm -PRIMARY HEAD REMOVE: 1X 300mm, 2X 200mm SECONDARY HEAD - BUS HOV SIGNS REPLACE: EXISTING SECONDARY HEAD WITH NEW 200mmX200mmX200mmX300mm - AUDIBLE (TYP.) (R,Y,G,Garw) SECONDARY HEAD NEW 4X300mm TRAFFIC SIGNAL HEAD (R,Y,G,Garw) (C/W SAFETY CABLE (TYP.)) COUNTDOWN PEDESTRIAN COUNTDOWN PEDESTRIAN HEAD SOUTH X-WALK HEAD NORTH X-WALK **▼** EB LANE EB LANE **EB LANE** MODIFY EXISTING MODIFY EXISTING TRAFFIC SIGNAL/LUMINAIRE TRAFFIC SIGNAL/LUMINAIRE POLE POLE **EASTBOUND** 

**WEST BROADWAY** 

REFER TO TRAFFIC CONTROL STAGE #1 SIGNAGE DRAWINGS FOR TRAFFIC SIGNS AND PAVEMENT MARKINGS

ALL EQUIPMENT IS PROPOSED **EXCEPT WHERE NOTED** 

ALL SIGNAL EQUIPEMENT SHALL BE BONDED

ALL OVERHEAD INSTALLATION TO FOLLOW BC HYDRO OVERHEAD STANDARDS

- 2021-08-05 AR ISSUED FOR FDR 2 CC - 2021-07-20 AR ISSUED FOR FDR - 2021-06-09 AR ISSUED FOR IDR 1 I/R DATE BY DESCRIPTION(PHASE) APPR REFERENCES

BROADWAY Subway Project Corporation

PROJECT



BRITISH COLUMBIA

DB CONTRACTOR



Transportation and Infrastructure

GNEC 5508501
A.REYES PROJECT NUMBER DES BY CHK BY C.COMMANDEUR BSP APR BY C.COMMANDEUR SHEET TITLE

DRAWING INFORMATION

SCALE

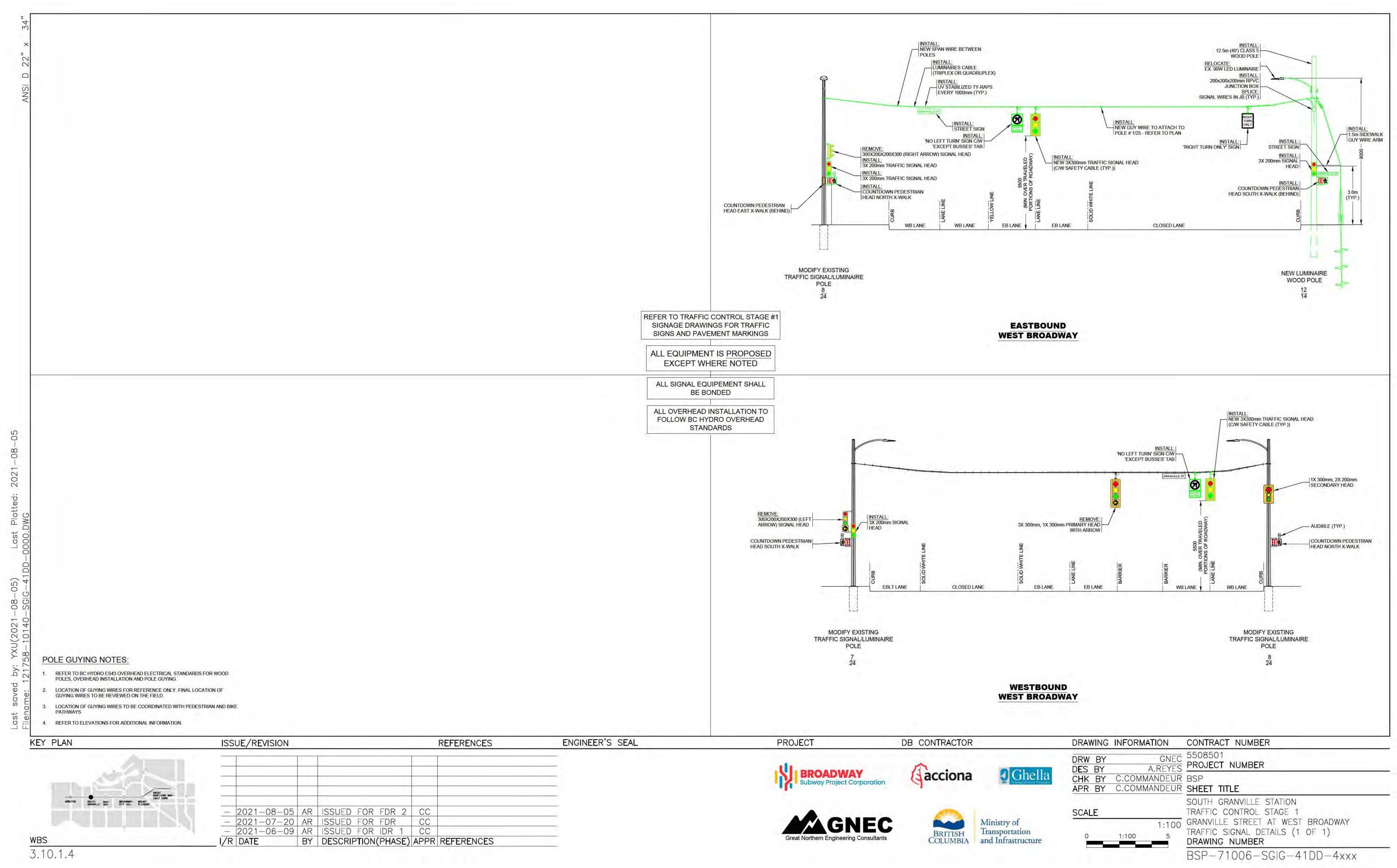
SOUTH GRANVILLE STATION TRAFFIC CONTROL STAGE 1 1:100 FIR STREET AT WEST BROADWAY TRAFFIC SIGNAL DETAILS (1 OF 1) DRAWING NUMBER

CONTRACT NUMBER

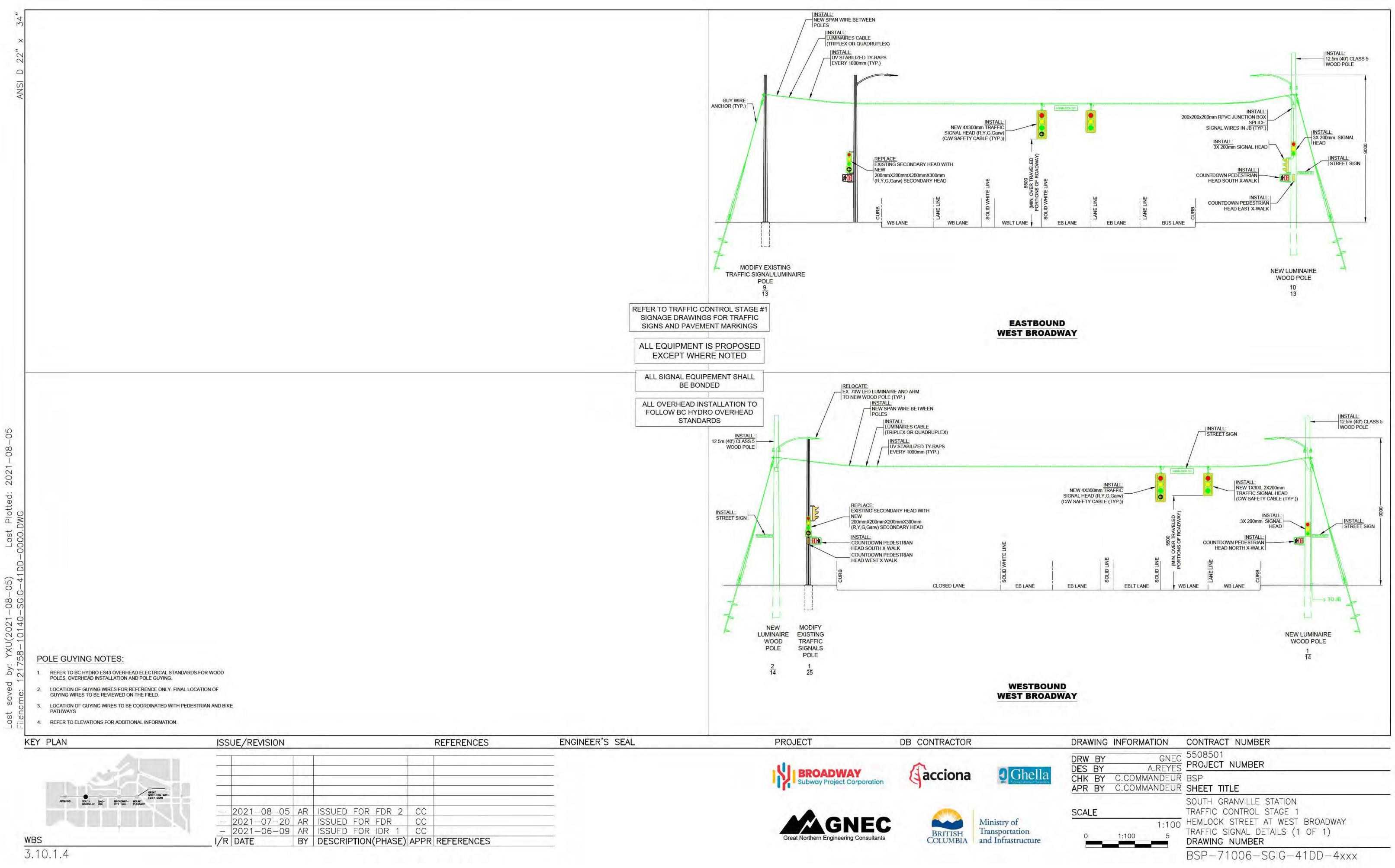
BSP-71006-SGIG-41DD-4xxx

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3.10.1.4



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From: <u>Tabamo, Jobi</u>
To: <u>Liew, Tony</u>

Subject: RE: PNE no Parking Restrictions

Date: Wednesday, August 11, 2021 4:08:00 PM

Attachments: image001.png

image002.png

#### Hi Tony,

Thanks for the heads up. I'll have our crews install the required signage by August 23<sup>rd</sup>.

Jobi Tabamo | Transit Designer, Transit Integration & Projects

604.829.9860 | jobi.tabamo@vancouver.ca

**From:** Liew, Tony <Tony.Liew@coastmountainbus.com>

**Sent:** Monday, August 9, 2021 10:33 AM

**To:** Tabamo, Jobi < Jobi. Tabamo@vancouver.ca> **Subject:** [EXT] PNE no Parking Restrictions

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unless you were expecting the email and know the content is safe.

#### Morning Jobi,

I hope you are doing well and hope you can assist with CMBC no parking request for PNE again this year form Monday Aug 23 till Monday September 06, 2021.

Please see attached pdf as to what was done in previous years. Please let me know if there is anything else you need from me.

**Thanks** 

Tony Liew

Operations Logistics Advisor - TComm

Coast Mountain Bus Company

7740-132 St,

Surrey BC V3W 4M9

special.events@coastmountainbus.com

Tel: 778-593-5733 Cell: 604-551-1847



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From: <u>Tabamo, Jobi</u>
To: <u>Wall, Les</u>

Subject: RE: Renfrew Sewer Upgrades - Venables to Graveley - CMBC Implications

**Date:** Tuesday, August 10, 2021 1:29:00 PM

Hi Les,

Additional info:

The entire stretch (Venables-Grant) will be from about Sept - Spring 2022.

Estimate from Ops is that the center stops will be relocated for 1-2 months when construction adjacent to the stops occurs (boarding to center lane will be relocated as well) but schedule can vary depending on many factors.

From: Tabamo, Jobi

Sent: Friday, August 06, 2021 10:00 AM

To: Wall, Les <Les.Wall@coastmountainbus.com>

Subject: FW: Renfrew Sewer Upgrades - Venables to Graveley - CMBC Implications

Hi Les,

This was the latest email I was forwarded by Mike. Is this enough info provided from them for us to provide input? Mainly regarding the OH trolley impacts as well as building a platform that extends to the center lane. I'm not sure if I've seen a platform extend two lanes for transit service, what're your thoughts on that? And if its not feasible, we can consolidate the two stops within the work zone to FS/NS Grant, outside of the zone.

I believe they're waiting on us for additional comment – let me know what you think.

Thanks, Jobi

From: Dobud, Mike < Mike. Dobud@vancouver.ca>

**Sent:** Friday, July 23, 2021 2:03 PM

**To:** Les Wall < Les. Wall@coastmountainbus.com >

**Cc:** Mclaren, Chris < Chris. Mclaren@vancouver.ca>; Mike.Palleschi@coastmountainbus.com; Daniel Carreira (Daniel.Carreira@coastmountainbus.com) < Daniel.Carreira@coastmountainbus.com>; Tony Liew (Tony.Liew@coastmountainbus.com) < Tony.Liew@coastmountainbus.com>; Ryan, Colin < Colin.Ryan@vancouver.ca>

**Subject:** RE: Renfrew Sewer Upgrades - Venables to Graveley - CMBC Implications Hi Les,

I just wanted to follow up and see if you have had a chance to review the outstanding items noted below? Are you able to provide feedback on the preferred locations of any relocated stops, temp pad requirements for any north & south end relocations and dimensions for the temporary platform for the mid-way northbound stop?

#### Venables Stops (North End):

- To be relocated North of TMP limits
- CMBC to confirm temp pad requirements
- CMBC (Mike P) to confirm overhead wire transition length (~90m)

#### <u>Charles Stops (Center):</u>

- NB Stop requires a temporary platform CMBC to provide dimensions
- NB Stop & Temp platform to be relocated as work progresses through that area.
- CMBC to provide Temp pad dimensions

- SB Stop to be accommodated with 1 Lane NB / 2 Lane SB configuration
- SB Stop to be relocated as work progresses in that area (1.5 Lanes NB & SB)

#### **Grant Stops (South End)**

- CMBC to close stops or temporarily relocate South of Work Zone
- CMBC to confirm temp pad requirements
- CMBC (Mike P) to confirm overhead wire transition length (~90m)

#### Thanks,

Mike Dobud | Project Coordinator | Project Delivery

Engineering Services | City of Vancouver

mike.dobud@vancouver.ca

778-996-1501

From: Dobud, Mike

**Sent:** Tuesday, July 20, 2021 2:58 PM

**To:** Ryan, Colin < colin.ryan@vancouver.ca>; Tony Liew (Tony.Liew@coastmountainbus.com)

<Tony.Liew@coastmountainbus.com>; Daniel Carreira (Daniel.Carreira@coastmountainbus.com)

<Daniel.Carreira@coastmountainbus.com>; Les Wall <Les.Wall@coastmountainbus.com>;

'Mike.Palleschi@coastmountainbus.com' < <u>Mike.Palleschi@coastmountainbus.com</u>>; Mclaren, Chris < <u>chris.mclaren@vancouver.ca</u>>

**Subject:** RE: Renfrew Sewer Upgrades - Venables to Graveley - CMBC Implications Hi All,

Thanks for your time this morning. Please see attached updated plan and notes below.

#### Venables Stops (North End):

- To be relocated North of TMP limits
- CMBC to confirm temp pad requirements
- CMBC (Mike P) to confirm overhead wire transition length (~90m)

#### <u>Charles Stops (Center):</u>

- NB Stop requires a temporary platform CMBC to provide dimensions
- NB Stop & Temp platform to be relocated as work progresses through that area.
- CMBC to provide Temp pad dimensions
- SB Stop to be accommodated with 1 Lane NB / 2 Lane SB configuration
- SB Stop to be relocated as work progresses in that area (1.5 Lanes NB & SB)

#### **Grant Stops (South End)**

- CMBC to close stops or temporarily relocate South of Work Zone
- CMBC to confirm temp pad requirements
- CMBC (Mike P) to confirm overhead wire transition length (~90m)

Please let me know if I have missed anything or if there is anything to add.

Thanks,

Mike Dobud | Project Coordinator | Project Delivery

Engineering Services | City of Vancouver

mike.dobud@vancouver.ca

778-996-1501

-----Original Appointment-----

From: Dobud, Mike

**Sent:** Friday, July 16, 2021 2:04 PM

To: Ryan, Colin; Tony Liew (Tony.Liew@coastmountainbus.com); Daniel Carreira

(Daniel.Carreira@coastmountainbus.com); Les Wall; Mike.Palleschi@coastmountainbus.com

Subject: Renfrew Sewer Upgrades - Venables to Graveley - CMBC Implications

When: Tuesday, July 20, 2021 10:00 AM-10:30 AM (UTC-08:00) Pacific Time (US & Canada).

Where: Webex

Hi All,

As discussed with Tony, we are moving onto the next segment of work on Renfrew St and are looking to have a quick meeting to discuss the phasing and impacts in regards to wire shifts and bus stops. The overall scope is shown in the attached plan and is currently scheduled to start mid-August and run through spring 2022

Please let me know if there is a conflict with the proposed time.

#### Thanks.

Mike Dobud | Project Coordinator | Project Delivery Engineering Services | City of Vancouver mike.dobud@vancouver.ca 778-996-1501

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