

Streamlining data for efficient transmission design

Simon Gasson





NORTH AMERICA

EUROPE

ASIA

AFRICA

SOUTH AMERICA

OCEANIA

North Pacific Ocean

North Atlantic Ocean

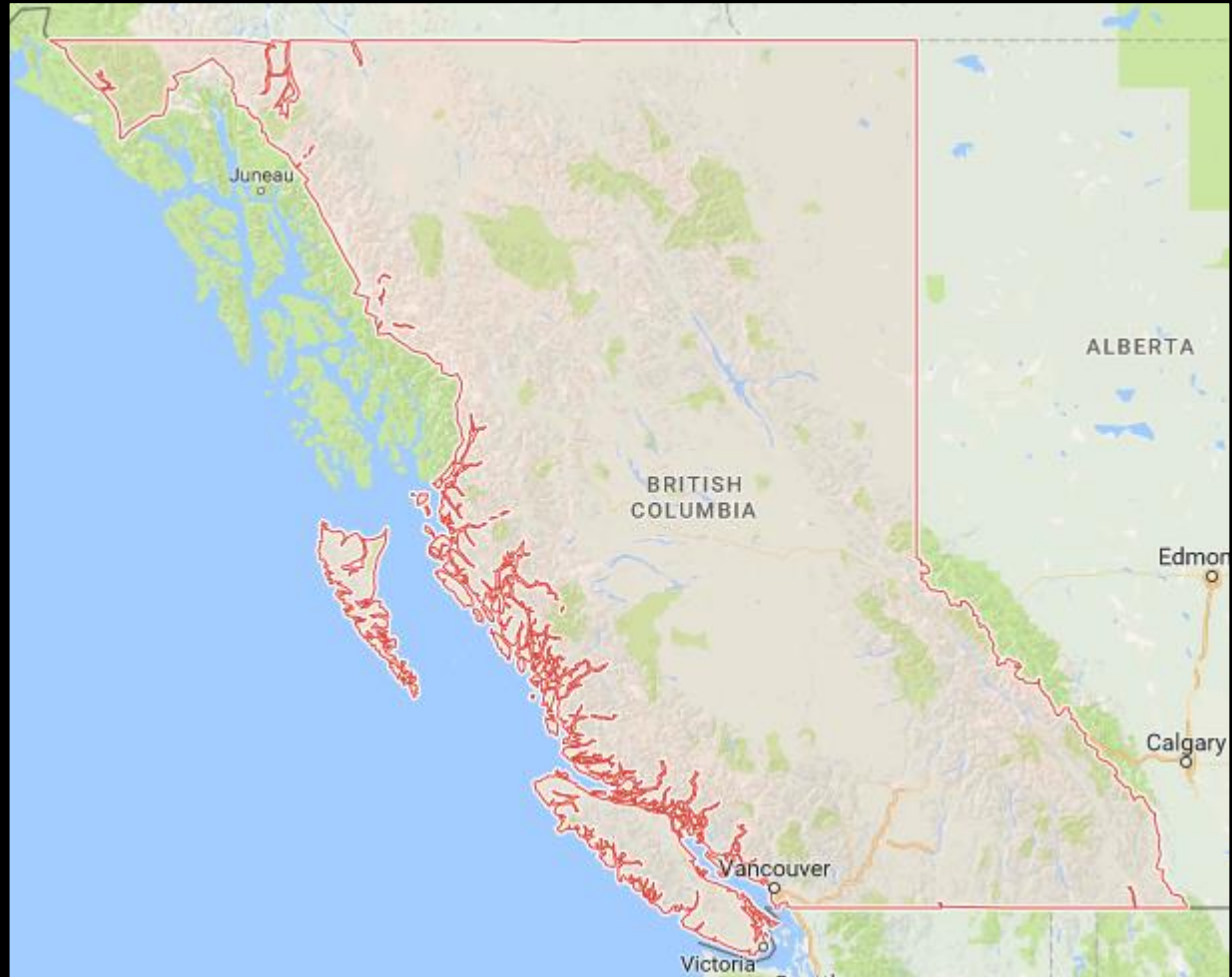
South Pacific Ocean

South Atlantic Ocean

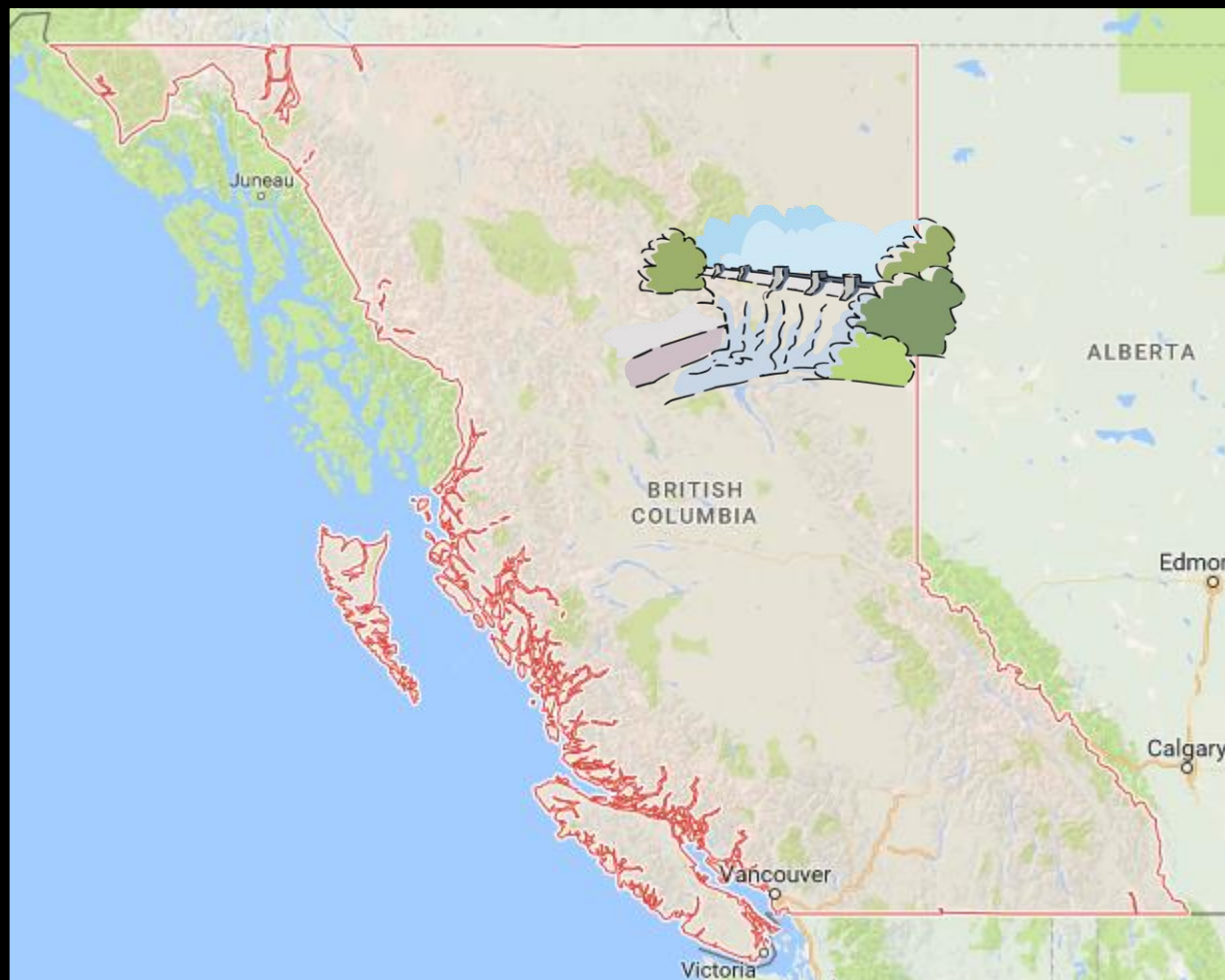
Indian Ocean

BC hydro 

BC hydro 



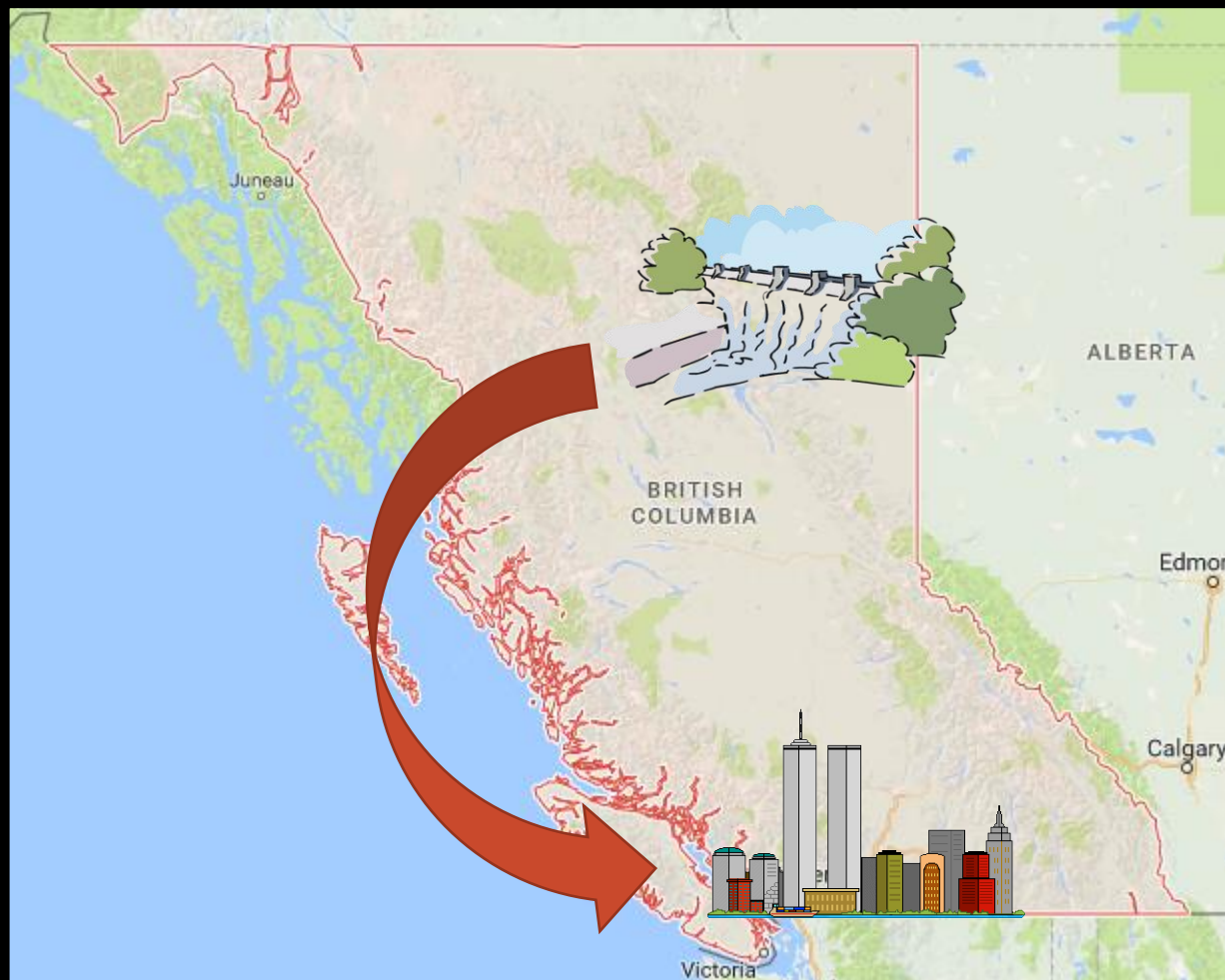
BC hydro 



BC hydro



BC hydro



BC hydro









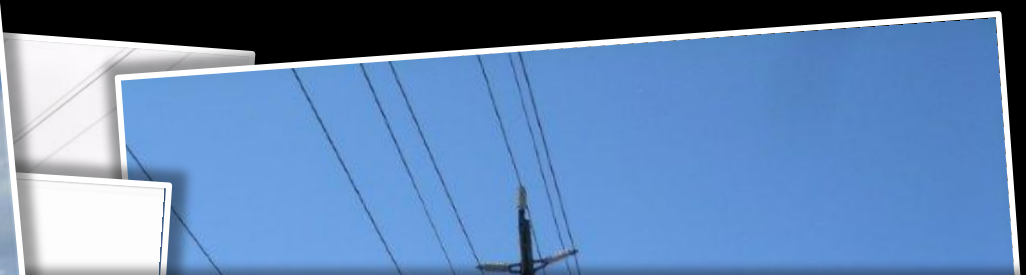




2016. 6. 15













330 Circuits

>10,000

Structures

WOODPOLE ASSESSMENTS - PROGRAM

Clear Filters

Remaining Scope

Design	Review	Circuit #	Structure #	WB Structure	Site Info Received	Completion Date	TM	Progress	RC/WC	In Scope	Quarter	Notes	Region	Remaining Scope (Non WB)	IFC Needed
PW		1L214	0010-04	N	Y	5/02/2015	91	Issued	WC	F16 S2	F16 S1	Moved from F16 Stage 1 scope.	OST	FALSE	-
LW	SG	2L352	0004-04		Y	13/02/2015	92	Issued	WC	F16 S2	Q1		PGT	FALSE	-
LW	SG	2L352	0005-03		Y	13/02/2015	92	Issued	WC	F16 S2	Q1		PGT	FALSE	-
LW	SG	2L352	0013-05		Y	13/02/2015	92	Issued	WC	F16 S2	Q1		PGT	FALSE	-
LW	SG	2L352	0044-01		Y	13/02/2015	92	Issued	RC	F16 S2	Q1		PGT	FALSE	-
LW	SG	2L352	0045-01		Y	13/02/2015	92	Issued	WC	F16 S2	Q1		PGT	FALSE	-
LW	SG	2L352	0046-01		Y	13/02/2015	92	Issued	RC	F16 S2	Q1		PGT	FALSE	-
LW	SG	2L352	0047-06		Y	13/02/2015	92	Issued	RC	F16 S2	Q1		PGT	FALSE	-
LW	SG	2L352	0049-01		Y	13/02/2015	92	Issued	WC	F16 S2	Q1		PGT	FALSE	-
LW	SG	2L352	0051-02		Y	13/02/2015	92	Issued	WC	F16 S2	Q1		PGT	FALSE	-
LW	SG	2L352	0052-02		Y	13/02/2015	92	Issued	WC	F16 S2	Q1		PGT	FALSE	-
LW	SG	2L352	0054-02		Y	13/02/2015	92	Issued	RC	F16 S2	Q1		PGT	FALSE	-
LW	SG	2L352	0055-02		Y	13/02/2015	92	Issued	WC	F16 S2	Q1		PGT	FALSE	-
LW	SG	2L352	0056-05		Y	13/02/2015	92	Issued	WC	F16 S2	Q1		PGT	FALSE	-
LW	SG	2L352	0057-01		Y	13/02/2015	92	Issued	WC	F16 S2	Q1		PGT	FALSE	-
LW	SG	2L352	0057-03		Y	13/02/2015	92	Issued	WC	F16 S2	Q1		PGT	FALSE	-
LW	SG	2L352	0058-02		Y	13/02/2015	92	Issued	WC	F16 S2	Q1		PGT	FALSE	-
LW	SG	2L352	0058-04		Y	13/02/2015	92	Issued	WC	F16 S2	Q1		PGT	FALSE	-
LW	SG	2L352	0058-05		Y	13/02/2015	92	Issued	WC	F16 S2	Q1		PGT	FALSE	-
LW	SG	2L352	0060-01		Y	13/02/2015	92	Issued	WC	F16 S2	Q1		PGT	FALSE	-
LW	SG	2L352	0060-03		Y	13/02/2015	92	Issued	RC	F16 S2	Q1		PGT	FALSE	-
LW	SG	2L352	0084-05		Y	13/02/2015	92	Issued	RC	F16 S2	Q1		PGT	FALSE	-
LW	SG	2L352	0085-04		Y	13/02/2015	92	Issued	RC	F16 S2	Q1		PGT	FALSE	-
LW	SG	2L352	0088-04		Y	13/02/2015	92	Issued	RC	F16 S2	Q1		PGT	FALSE	-

Design

Review

Circuit #

Structure #

WOODPOLE ASSESSMENTS - PROGRAM

Clear Filters

Remaining Scope

Design	Review	Circuit #	Structure #	WB Structure	Site Info Received	Completion Date	TM	Progress	RC/WC	In Scope	Quarter	Notes	Region	Remaining Scope (Non WB)	IFC Needed
PW		11214	0010-04	N	Y	5/02/2015	91	Issued	WC	F16 S2	F16 S1	Moved from F16 Stage 1 scope.	OST	FALSE	-
LW	SG	2L352	0004-04		Y	13/02/2015	92	Issued	WC	F16 S2	Q1		PGT	FALSE	-
LW	SG	2L352	0005-03		Y	13/02/2015	92	Issued	WC	F16 S2	Q1		PGT	FALSE	-
LW	SG	2L352	0013-05		Y	13/02/2015	92	Issued	WC	F16 S2	Q1		PGT	FALSE	-
LW	SG	2L352	0044-01		Y	13/02/2015	92	Issued	RC	F16 S2	Q1		PGT	FALSE	-
LW	SG	2L352	0045-01		Y	13/02/2015	92	Issued	WC	F16 S2	Q1		PGT	FALSE	-
LW	SG	2L352	0046-01		Y	13/02/2015	92	Issued	RC	F16 S2	Q1		PGT	FALSE	-
LW	SG	2L352	0047-06		Y	13/02/2015	92	Issued	RC	F16 S2	Q1		PGT	FALSE	-
LW	SG	2L352	0049-01		Y	13/02/2015	92	Issued	WC	F16 S2	Q1		PGT	FALSE	-
LW	SG	2L352	0051-02		Y	13/02/2015	92	Issued	WC	F16 S2	Q1		PGT	FALSE	-
LW	SG	2L352	0052-02		Y	13/02/2015	92	Issued	WC	F16 S2	Q1		PGT	FALSE	-
LW	SG	2L352	0054-02		Y	13/02/2015	92	Issued	RC	F16 S2	Q1		PGT	FALSE	-
LW	SG	2L352	0055-02		Y	13/02/2015	92	Issued	WC	F16 S2	Q1		PGT	FALSE	-
LW	SG	2L352	0056-05		Y	13/02/2015	92	Issued	WC	F16 S2	Q1		PGT	FALSE	-
LW	SG	2L352	0057-01		Y	13/02/2015	92	Issued	WC	F16 S2	Q1		PGT	FALSE	-
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LW	SG	2L352	0058-02		Y	13/02/2015	92	Issued	WC	F16 S2	Q1		PGT	FALSE	-
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LW	SG	2L352	0060-01		Y	13/02/2015	92	Issued	WC	F16 S2	Q1		PGT	FALSE	-
LW	SG	2L352	0060-03		Y	13/02/2015	92	Issued	RC	F16 S2	Q1		PGT	FALSE	-
LW	SG	2L352	0084-05		Y	13/02/2015	92	Issued	RC	F16 S2	Q1		PGT	FALSE	-
LW	SG	2L352	0085-04		Y	13/02/2015	92	Issued	RC	F16 S2	Q1		PGT	FALSE	-
LW	SG	2L352	0088-04		Y	13/02/2015	92	Issued	RC	F16 S2	Q1		PGT	FALSE	-

Site Info
Received

Completion Date

TM

Progress

WOODPOLE ASSESSMENTS - PROGRAM

Clear Filters

Remaining Scope

Design	Review	Circuit #	Structure #	WP Struct	Site Info Received	Completion Date	TM	Progress	RC/WC	In Scope	Quarter	Notes	Region	Remaining Scope (Non WB)	IFC Needed
PW		1L214	0010-04	N	Y	3/02/2015	92	Issued	WC	F16 S2	F16 S1	Moved from F16 Stage 1 scope.	OST	FALSE	-
LW	SG	2L352	0004-04		Y	13/02/2015	92	Issued	WC	F16 S2	Q1		PGT	FALSE	-
LW	SG	2L352	0005-03		Y	13/02/2015	92	Issued	WC	F16 S2	Q1		PGT	FALSE	-
LW	SG	2L352	0013-05		Y	13/02/2015	92	Issued	WC	F16 S2	Q1		PGT	FALSE	-
LW	SG	2L352	0044-01		Y	13/02/2015	92	Issued	RC	F16 S2	Q1		PGT	FALSE	-
LW	SG	2L352	0045-01		Y	13/02/2015	92	Issued	WC	F16 S2	Q1		PGT	FALSE	-
LW	SG	2L352	0046-01		Y	13/02/2015	92	Issued	RC	F16 S2	Q1		PGT	FALSE	-
LW	SG	2L352	0047-06		Y	13/02/2015	92	Issued	RC	F16 S2	Q1		PGT	FALSE	-
LW	SG	2L352	0049-01		Y	13/02/2015	92	Issued	WC	F16 S2	Q1		PGT	FALSE	-
LW	SG	2L352	0051-02		Y	13/02/2015	92	Issued	WC	F16 S2	Q1		PGT	FALSE	-
LW	SG	2L352	0052-02		Y	13/02/2015	92	Issued	WC	F16 S2	Q1		PGT	FALSE	-
LW	SG	2L352	0054-02		Y	13/02/2015	92	Issued	RC	F16 S2	Q1		PGT	FALSE	-
LW	SG	2L352	0055-02		Y	13/02/2015	92	Issued	WC	F16 S2	Q1		PGT	FALSE	-
LW	SG	2L352	0056-05		Y	13/02/2015	92	Issued	WC	F16 S2	Q1		PGT	FALSE	-
LW	SG	2L352	0057-01		Y	13/02/2015	92	Issued	WC	F16 S2	Q1		PGT	FALSE	-
LW	SG	2L352	0057-03		Y	13/02/2015	92	Issued	WC	F16 S2	Q1		PGT	FALSE	-
LW	SG	2L352	0058-02		Y	13/02/2015	92	Issued	WC	F16 S2	Q1		PGT	FALSE	-
LW	SG	2L352	0058-04		Y	13/02/2015	92	Issued	WC	F16 S2	Q1		PGT	FALSE	-
LW	SG	2L352	0058-05		Y	13/02/2015	92	Issued	WC	F16 S2	Q1		PGT	FALSE	-
LW	SG	2L352	0060-01		Y	13/02/2015	92	Issued	WC	F16 S2	Q1		PGT	FALSE	-
LW	SG	2L352	0060-03		Y	13/02/2015	92	Issued	RC	F16 S2	Q1		PGT	FALSE	-
LW	SG	2L352	0084-05		Y	13/02/2015	92	Issued	RC	F16 S2	Q1		PGT	FALSE	-
LW	SG	2L352	0085-04		Y	13/02/2015	92	Issued	RC	F16 S2	Q1		PGT	FALSE	-
LW	SG	2L352	0088-04		Y	13/02/2015	92	Issued	RC	F16 S2	Q1		PGT	FALSE	-

RC/WC In Scope Quarter Notes

WOODPOLE ASSESSMENTS - PROGRAM																
Clear Filters		Remaining Scope														
Design	Review	Circuit #	Structure #	WB Structure	Site Info Received	Completion Date	TM	Progress	RC/WC	In Scope	Quarter	Notes	Region	Remaining Scope (Non WB)	IFC Needed	
PW		1L214	0010-04	N	Y	5/02/2015	91	Issued	WC	F16 S2	F16 S2	Moved from F16 Stage 2 scope.	OST	FALSE	-	
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LW	SG	2L352	0005-03		Y	13/02/2015	92	Issued	WC	F16 S2	Q1		PGT	FALSE	-	
LW	SG	2L352	0013-05		Y	13/02/2015	92	Issued	WC	F16 S2	Q1		PGT	FALSE	-	
LW	SG	2L352	0044-01		Y	13/02/2015	92	Issued	RC	F16 S2	Q1		PGT	FALSE	-	
LW	SG	2L352	0045-01		Y	13/02/2015	92	Issued	WC	F16 S2	Q1		PGT	FALSE	-	
LW	SG	2L352	0046-01		Y	13/02/2015	92	Issued	RC	F16 S2	Q1		PGT	FALSE	-	
LW	SG	2L352	0047-06		Y	13/02/2015	92	Issued	RC	F16 S2	Q1		PGT	FALSE	-	
LW	SG	2L352	0049-01		Y	13/02/2015	92	Issued	WC	F16 S2	Q1		PGT	FALSE	-	
LW	SG	2L352	0051-02		Y	13/02/2015	92	Issued	WC	F16 S2	Q1		PGT	FALSE	-	
LW	SG	2L352	0052-02		Y	13/02/2015	92	Issued	WC	F16 S2	Q1		PGT	FALSE	-	
LW	SG	2L352	0054-02		Y	13/02/2015	92	Issued	RC	F16 S2	Q1		PGT	FALSE	-	
LW	SG	2L352	0055-02		Y	13/02/2015	92	Issued	WC	F16 S2	Q1		PGT	FALSE	-	
LW	SG	2L352	0056-05		Y	13/02/2015	92	Issued	WC	F16 S2	Q1		PGT	FALSE	-	
LW	SG	2L352	0057-01		Y	13/02/2015	92	Issued	WC	F16 S2	Q1		PGT	FALSE	-	
LW	SG	2L352	0057-03		Y	13/02/2015	92	Issued	WC	F16 S2	Q1		PGT	FALSE	-	
LW	SG	2L352	0058-02		Y	13/02/2015	92	Issued	WC	F16 S2	Q1		PGT	FALSE	-	
LW	SG	2L352	0058-04		Y	13/02/2015	92	Issued	WC	F16 S2	Q1		PGT	FALSE	-	
LW	SG	2L352	0058-05		Y	13/02/2015	92	Issued	WC	F16 S2	Q1		PGT	FALSE	-	
LW	SG	2L352	0060-01		Y	13/02/2015	92	Issued	WC	F16 S2	Q1		PGT	FALSE	-	
LW	SG	2L352	0060-03		Y	13/02/2015	92	Issued	RC	F16 S2	Q1		PGT	FALSE	-	
LW	SG	2L352	0084-05		Y	13/02/2015	92	Issued	RC	F16 S2	Q1		PGT	FALSE	-	
LW	SG	2L352	0085-04		Y	13/02/2015	92	Issued	RC	F16 S2	Q1		PGT	FALSE	-	
LW	SG	2L352	0088-04		Y	13/02/2015	92	Issued	RC	F16 S2	Q1		PGT	FALSE	-	

Region Remaining Scope (Non WB) IFC Needed

WOODPOLE ASSESSMENTS - PROGRAM															
Clear Filters		Remaining Scope													
Design	Review	Circuit #	Structure #	WB Structure	Site Info Received	Completion Date	TM	Progress	RC/WC	In Scope	Quarter	Notes	Region	Remaining Scope (Non WB)	IFC Needed
PW		1L214	0010-04	N	Y	5/02/2015	91	Issued	WC	F16 S2	F16 S1	Moved from F16 Stage 1 scope.	OST	FALSE	-
LW	SG	2L352	0004-04		Y	13/02/2015	92	Issued	WC	F16 S2	Q1		PGT	FALSE	-
LW	SG	2L352	0005-03		Y	13/02/2015	92	Issued	WC	F16 S2	Q1		PGT	FALSE	-
LW	SG	2L352	0013-05		Y	13/02/2015	92	Issued	WC	F16 S2	Q1		PGT	FALSE	-
LW	SG	2L352	0044-01		Y	13/02/2015	92	Issued	RC	F16 S2	Q1		PGT	FALSE	-
LW	SG	2L352	0045-01		Y	13/02/2015	92	Issued	WC	F16 S2	Q1		PGT	FALSE	-
LW	SG	2L352	0046-01		Y	13/02/2015	92	Issued	RC	F16 S2	Q1		PGT	FALSE	-
LW	SG	2L352	0047-06		Y	13/02/2015	92	Issued	RC	F16 S2	Q1		PGT	FALSE	-
LW	SG	2L352	0049-01		Y	13/02/2015	92	Issued	WC	F16 S2	Q1		PGT	FALSE	-
LW	SG	2L352	0051-02		Y	13/02/2015	92	Issued	WC	F16 S2	Q1		PGT	FALSE	-
LW	SG	2L352	0052-02		Y	13/02/2015	92	Issued	WC	F16 S2	Q1		PGT	FALSE	-
LW	SG	2L352	0054-02		Y	13/02/2015	92	Issued	RC	F16 S2	Q1		PGT	FALSE	-
LW	SG	2L352	0055-02		Y	13/02/2015	92	Issued	WC	F16 S2	Q1		PGT	FALSE	-
LW	SG	2L352	0056-05		Y	13/02/2015	92	Issued	WC	F16 S2	Q1		PGT	FALSE	-
LW	SG	2L352	0057-01		Y	13/02/2015	92	Issued	WC	F16 S2	Q1		PGT	FALSE	-
LW	SG	2L352	0057-03		Y	13/02/2015	92	Issued	WC	F16 S2	Q1		PGT	FALSE	-
LW	SG	2L352	0058-02		Y	13/02/2015	92	Issued	WC	F16 S2	Q1		PGT	FALSE	-
LW	SG	2L352	0058-04		Y	13/02/2015	92	Issued	WC	F16 S2	Q1		PGT	FALSE	-
LW	SG	2L352	0058-05		Y	13/02/2015	92	Issued	WC	F16 S2	Q1		PGT	FALSE	-
LW	SG	2L352	0060-01		Y	13/02/2015	92	Issued	WC	F16 S2	Q1		PGT	FALSE	-
LW	SG	2L352	0060-03		Y	13/02/2015	92	Issued	RC	F16 S2	Q1		PGT	FALSE	-
LW	SG	2L352	0084-05		Y	13/02/2015	92	Issued	RC	F16 S2	Q1		PGT	FALSE	-
LW	SG	2L352	0085-04		Y	13/02/2015	92	Issued	RC	F16 S2	Q1		PGT	FALSE	-
LW	SG	2L352	0088-04		Y	13/02/2015	92	Issued	RC	F16 S2	Q1		PGT	FALSE	-

Clear Filters

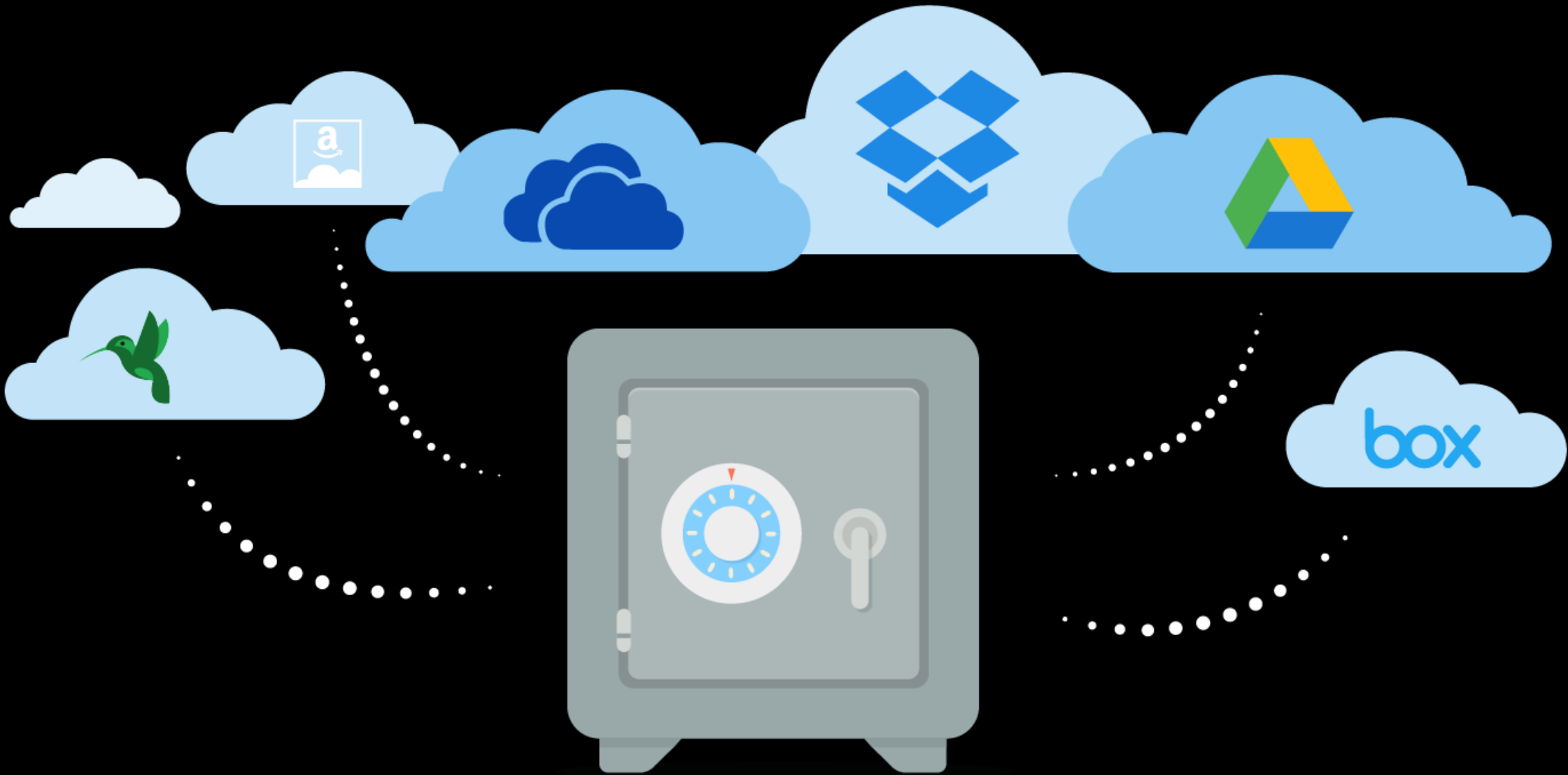
Remaining Scope

WOODPOLE ASSESSMENTS - PROGRAM

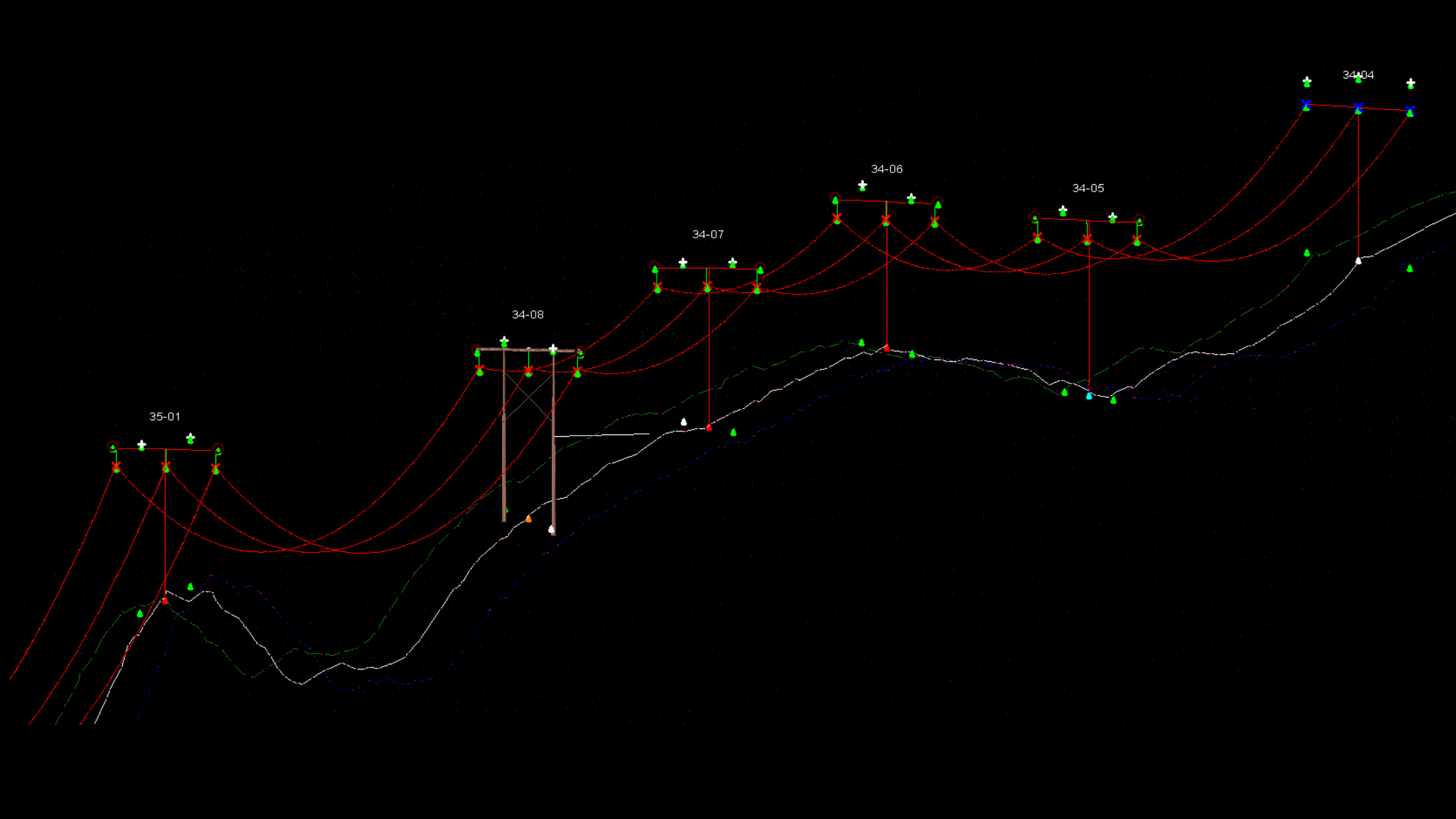
Clear Filters

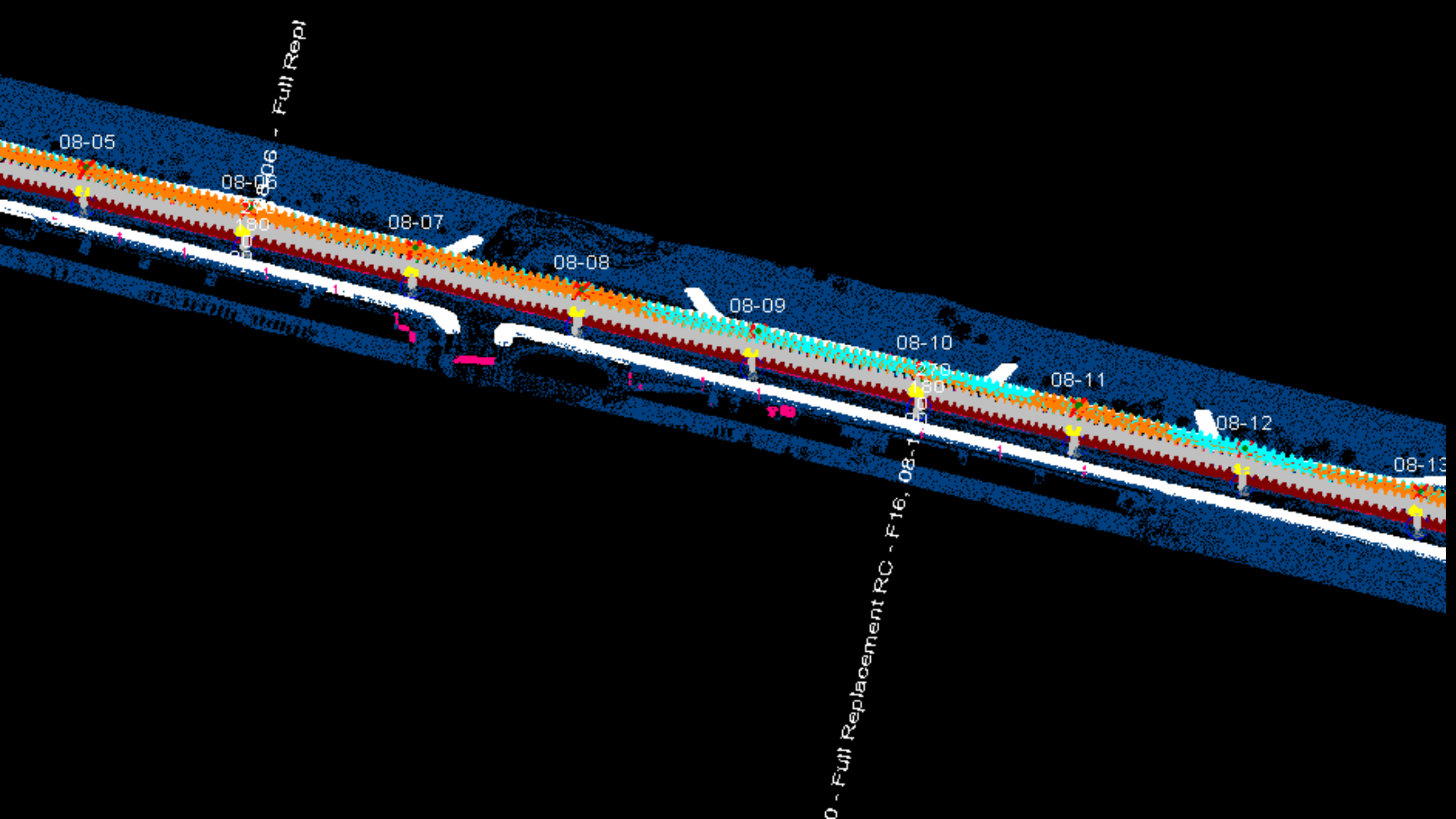
Remaining Scope

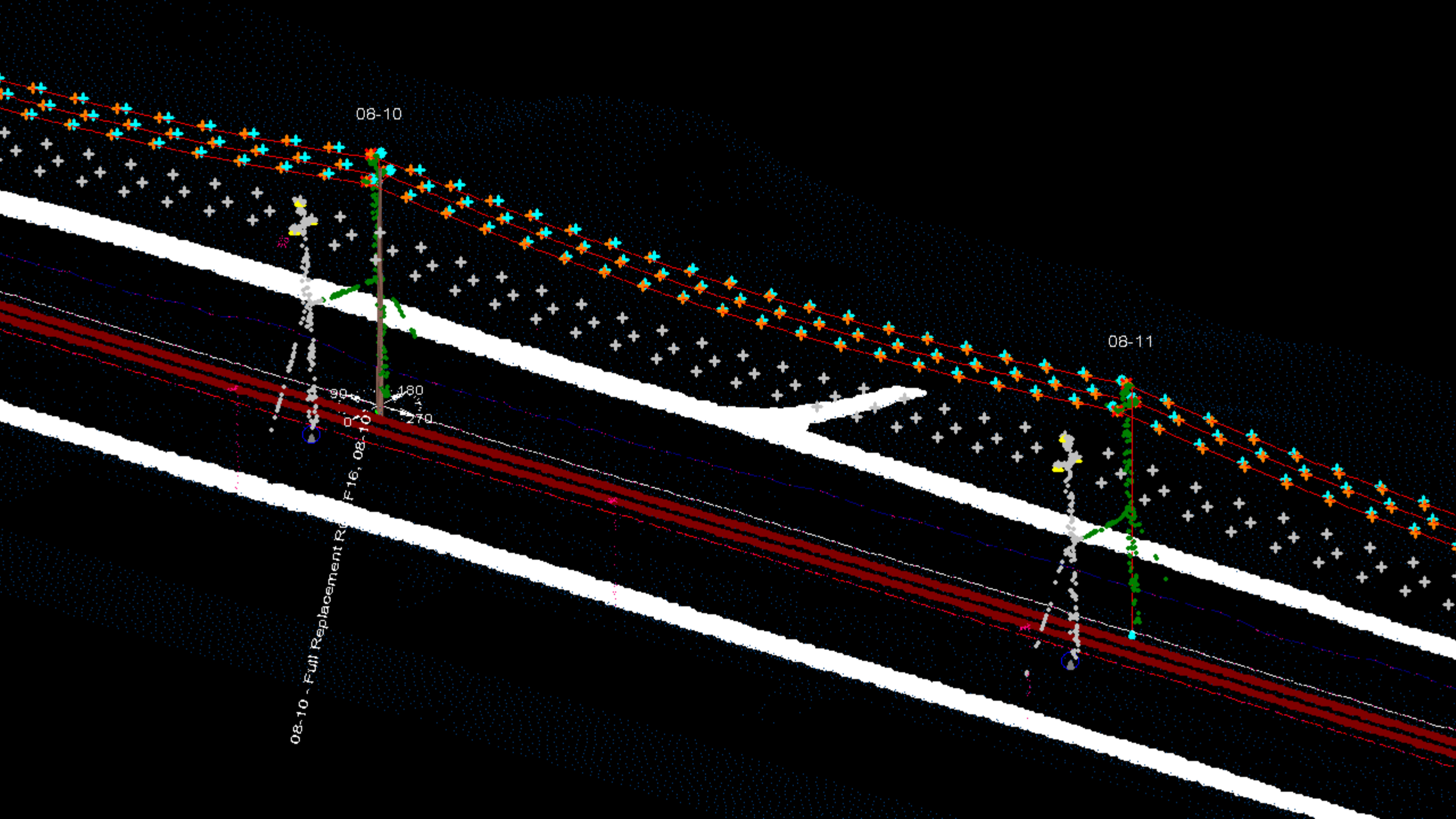
Design	Review	Circuit #	Structure #	WB Structure	Site Info Received	Completion Date	TM	Progress	RC/WC	In Scope	Quarter	Notes	Region	Remaining Scope (Non WB)	IFC Needed
PW		1L214	0010-04	N	Y	5/02/2015	91	Issued	WC	F16 S2	F16 S1	Moved from F16 Stage 1 scope.	OST	FALSE	-
LW	SG	2L352	0004-04		Y	13/02/2015	92	Issued	WC	F16 S2	Q1		PGT	FALSE	-
LW	SG	2L352	0005-03		Y	13/02/2015	92	Issued	WC	F16 S2	Q1		PGT	FALSE	-
LW	SG	2L352	0013-05		Y	13/02/2015	92	Issued	WC	F16 S2	Q1		PGT	FALSE	-
LW	SG	2L352	0044-01		Y	13/02/2015	92	Issued	RC	F16 S2	Q1		PGT	FALSE	-
LW	SG	2L352	0045-01		Y	13/02/2015	92	Issued	WC	F16 S2	Q1		PGT	FALSE	-
LW	SG	2L352	0046-01		Y	13/02/2015	92	Issued	RC	F16 S2	Q1		PGT	FALSE	-
LW	SG	2L352	0047-06		Y	13/02/2015	92	Issued	RC	F16 S2	Q1		PGT	FALSE	-
LW	SG	2L352	0049-01		Y	13/02/2015	92	Issued	WC	F16 S2	Q1		PGT	FALSE	-
LW	SG	2L352	0051-02		Y	13/02/2015	92	Issued	WC	F16 S2	Q1		PGT	FALSE	-
LW	SG	2L352	0052-02		Y	13/02/2015	92	Issued	WC	F16 S2	Q1		PGT	FALSE	-
LW	SG	2L352	0054-02		Y	13/02/2015	92	Issued	RC	F16 S2	Q1		PGT	FALSE	-
LW	SG	2L352	0055-02		Y	13/02/2015	92	Issued	WC	F16 S2	Q1		PGT	FALSE	-
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LW	SG	2L352	0060-03		Y	13/02/2015	92	Issued	RC	F16 S2	Q1		PGT	FALSE	-
LW	SG	2L352	0084-05		Y	13/02/2015	92	Issued	RC	F16 S2	Q1		PGT	FALSE	-
LW	SG	2L352	0085-04		Y	13/02/2015	92	Issued	RC	F16 S2	Q1		PGT	FALSE	-
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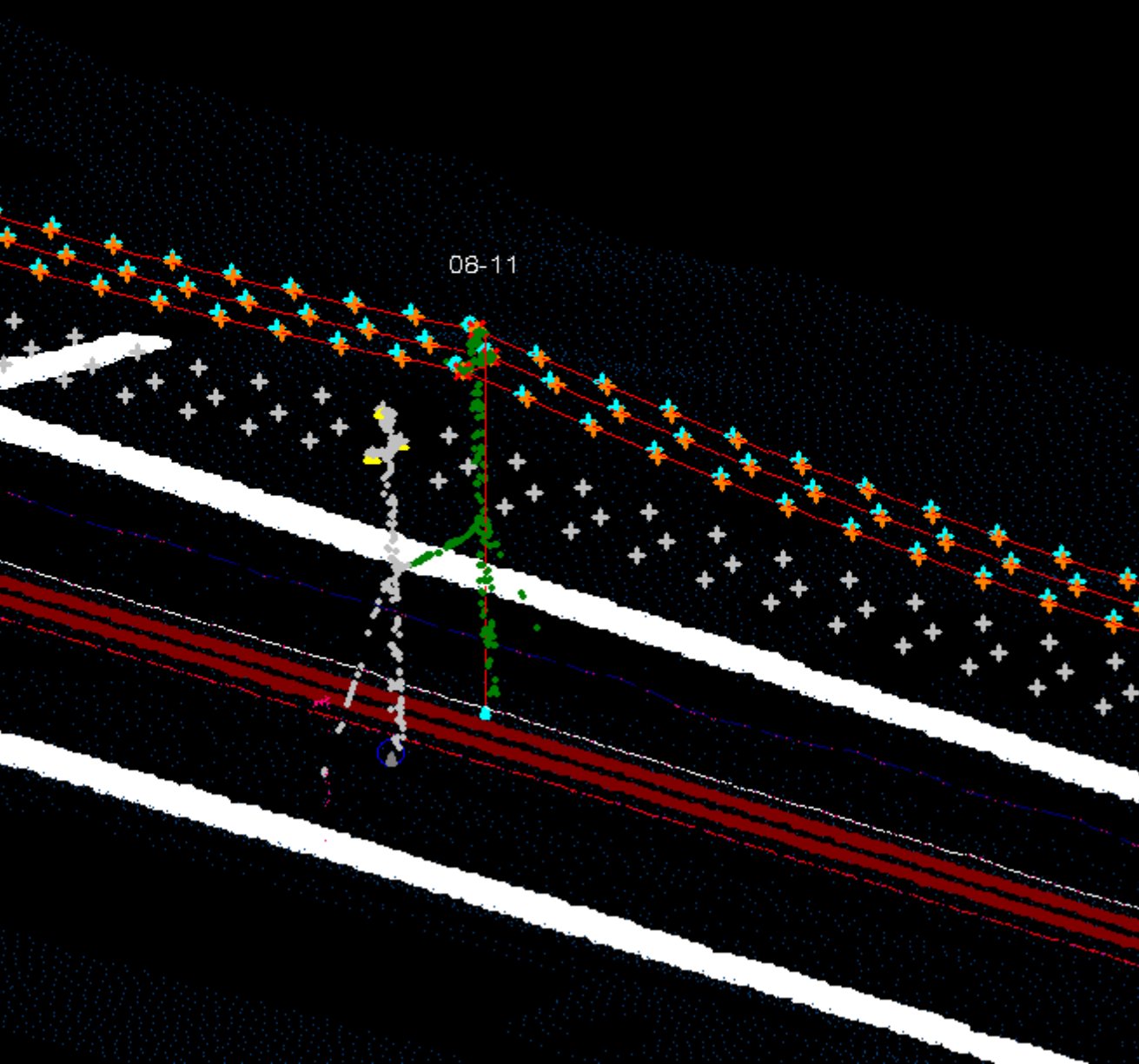
08-10

08-11

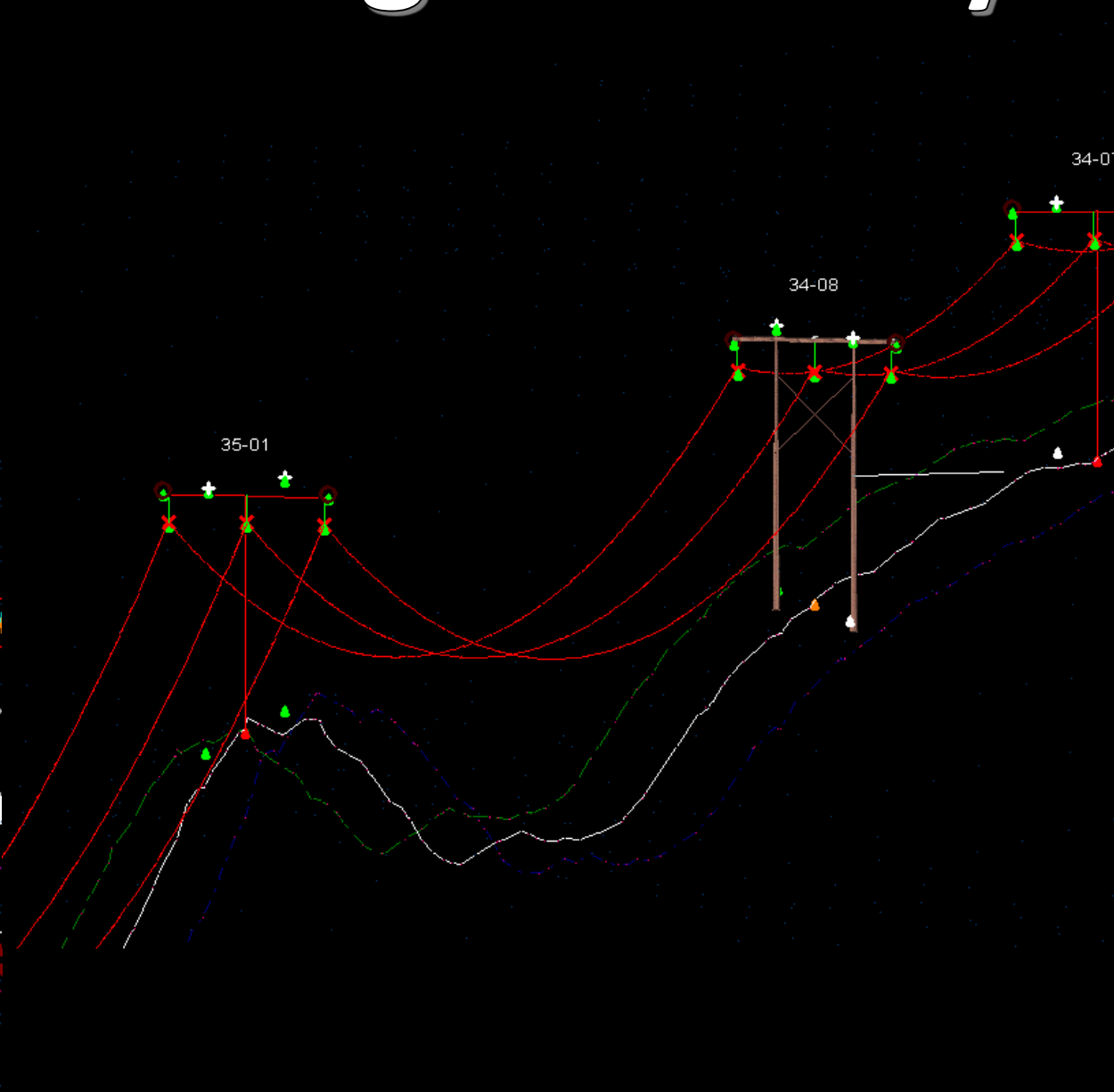
08-10 - Full Replacement Road F16, 08-10

90
180
270

LiDAR



Photogrammetry





Transmission Pole Replacement Field Checklist

NO ACCES

Structure		Date:		Designer: amec	
Circuit:	<u>604-010</u>	Structure ID:	<u>KEN001-05</u>	X-Arm condition:	N/A
Double circuit:	<input checked="" type="checkbox"/>	Parallel circuits:			
Structure type:		Location:			
Google Earth (GE)		If GE incorrect, GPS locations of:		LIDAR Folder #	
Correct	<input type="checkbox"/>	Structure to the back:	Latitude	Longitude	Span (if measured)
Incorrect	<input type="checkbox"/>	This structure:			
Significant elevation change:		Structure to the front:			
Slide slopes greater than 20°:		Yes	<input type="checkbox"/>	No	<input type="checkbox"/>
Pole		Yes	<input type="checkbox"/>	No	<input type="checkbox"/>
Height:		Left		Centre	
Class:		Right		Estimated:	
Butt Gain:				Pole #4	Pole #5
Condition:					
Spacing:	N/A				
Setting:		N/A		N/A	N/A
Underbuild		Backfill Material:			
Structure Type:	None <input type="checkbox"/>	1 Phase <input type="checkbox"/>	3 Phase <input type="checkbox"/>	Transformer <input type="checkbox"/>	Secondary <input type="checkbox"/>
X-Arm Condition:	Service Drop <input type="checkbox"/>	Surge Arrestor <input type="checkbox"/>	Other:		
Conductor Angle:					
Clearance issues		3rd Party Attachs:			
Obviously free of clearance issues:		Yes		<input type="checkbox"/>	
Possible interference:		Undercrossing Lines		<input type="checkbox"/>	
		Other:		No <input type="checkbox"/>	
Estimated location in span (%):		Roads		<input type="checkbox"/>	
Anchoring:		Ground		<input type="checkbox"/>	
Number of Guys:		Buildings		<input type="checkbox"/>	
Number of Anchors:		Estimated offset left / right:			
Anchor Setting:					
Guy Guard:					

<input type="checkbox"/>	Locked Gate
<input type="checkbox"/>	Anchor
<input type="checkbox"/>	Area/Access
<input type="checkbox"/>	yes (less than 100m)

Continued on back...

RESET

Transmission Pole Replacement Field Checklist

NO ACCESS

Structure: _____ Date: _____ Designer: **amec**

Circuit: 601-00 KEU Structure ID: KEN001-05 X-Arm condition: _____

Location: _____ Parallel circuits: _____

Google Earth (GE) Correct If GE incorrect, GPS locations of:
 Incorrect Structure to the back: _____ Latitude _____ Longitude _____
 Structure to the front: _____ Span (if measured) _____

Significant elevation change: Yes No Estimated: _____

Slide slopes greater than 20°: Yes No Pole #4 _____ Pole #5 _____

Class: Left _____ Centre _____ Right _____

Butt Gain: _____

Condition: _____

Spacing: N/A _____

Setting: N/A _____

Underbuild Structure Type: _____ Backfill Material: _____

X-Arm Condition: None 1 Phase Service Drop Surge Arrestor 3 Phase Other: _____ Transformer Secondary

Conductor Angle: _____

Clearance issues Obviously free of clearance issues: Yes 3rd Party Attacks: _____

Possible interference: Undercrossing Lines Other: _____ Roads Ground Buildings

Estimated location in span (%): _____

Anchoring: _____

Number of Guys: _____

Number of Anchors: _____

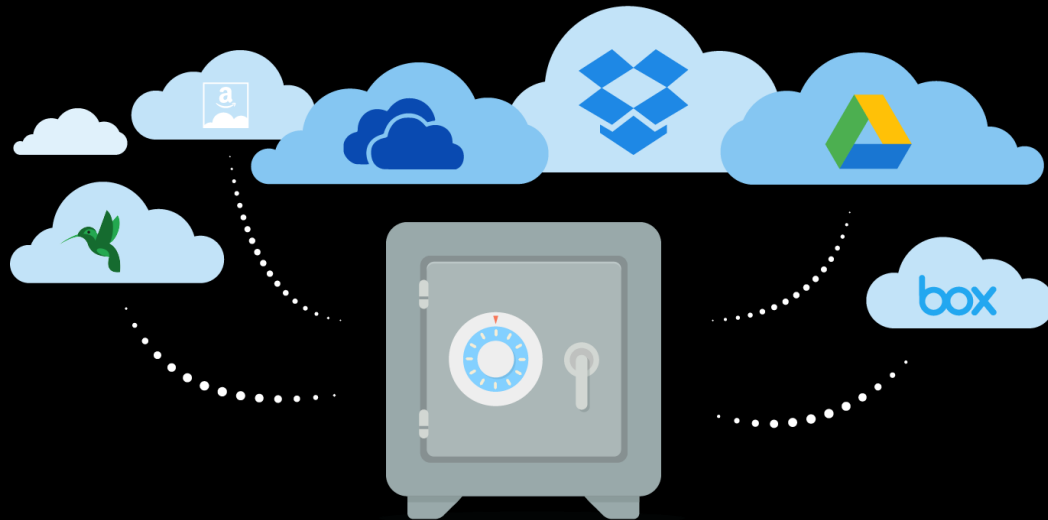
Anchor Setting: _____

Guy Guard: _____

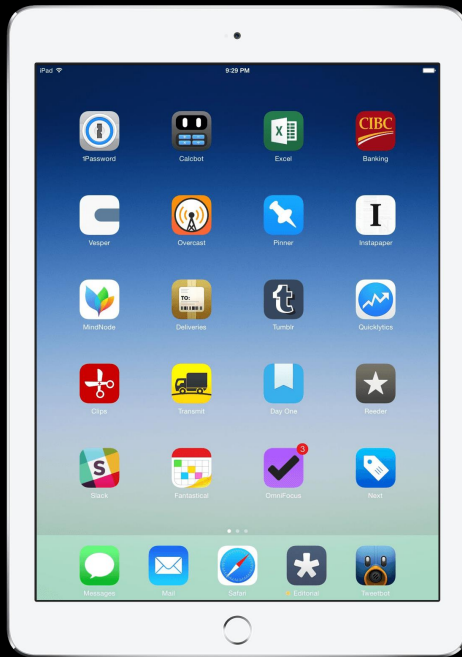
Continued on back...

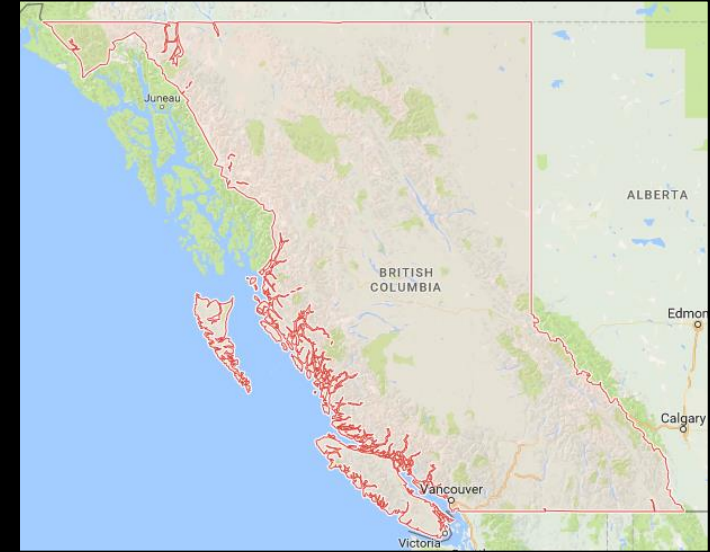
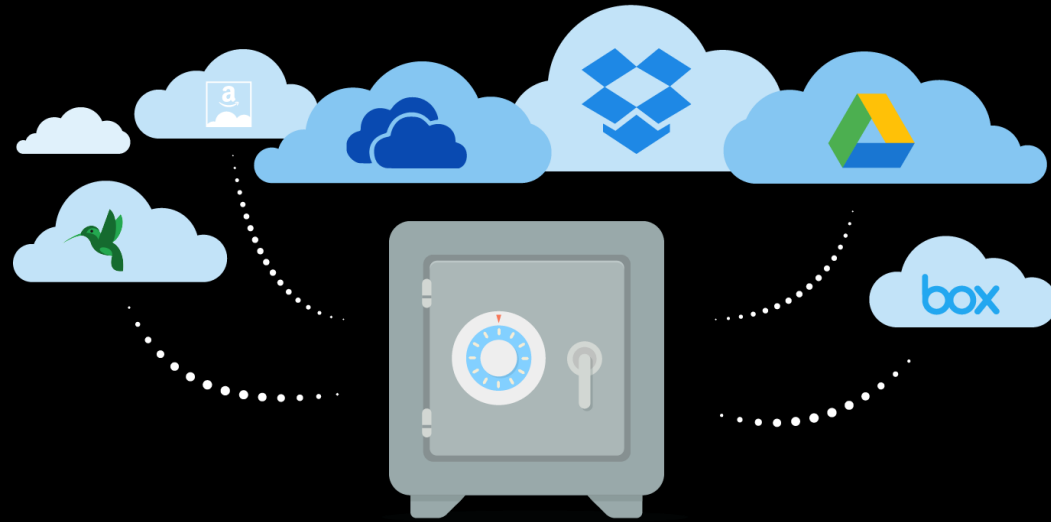
RESET





Two overlapping forms are shown. The top form is titled "Transmission Pole Replacement Pole Checklist" and includes fields for "Line", "Structure No.", "Structure Name", "Structure Type", "Structure Material", "Structure Size", "Structure Location", "Structure Condition", "Structure Age", "Structure Owner", "Structure Status", "Structure Notes", "Structure Date", "Structure User", "Structure Version", "Structure ID", "Structure Code", "Structure Category", "Structure Sub-category", "Structure Parent", "Structure Child", "Structure Siblings", "Structure Ancestors", "Structure Descendants", "Structure Root", "Structure Leaf", "Structure Branch", "Structure Pruning", "Structure Grafting", "Structure Propagation", "Structure Mutation", "Structure Selection", "Structure Adaptation", "Structure Speciation", "Structure Extinction", "Structure Evolution", "Structure Speciation", "Structure Extinction", "Structure Evolution". The bottom form is partially obscured and contains a "SUBMIT" button.

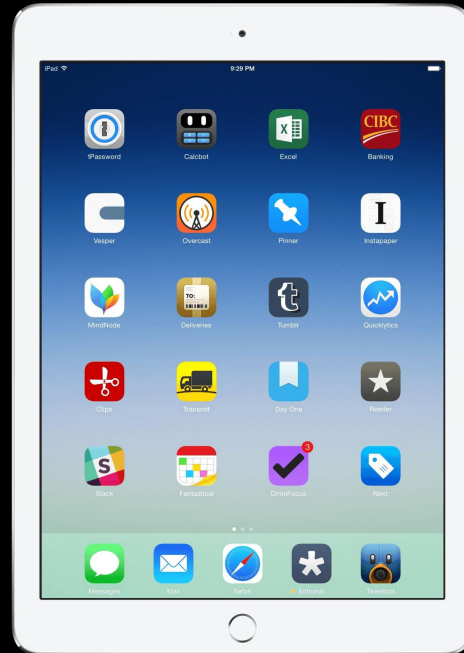


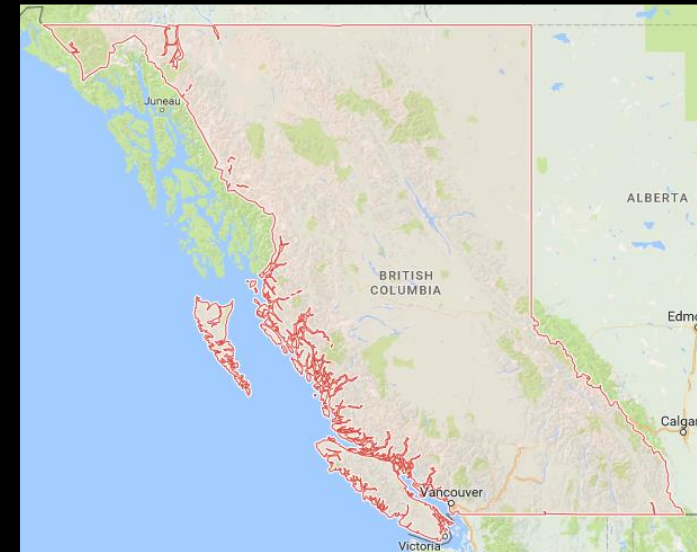
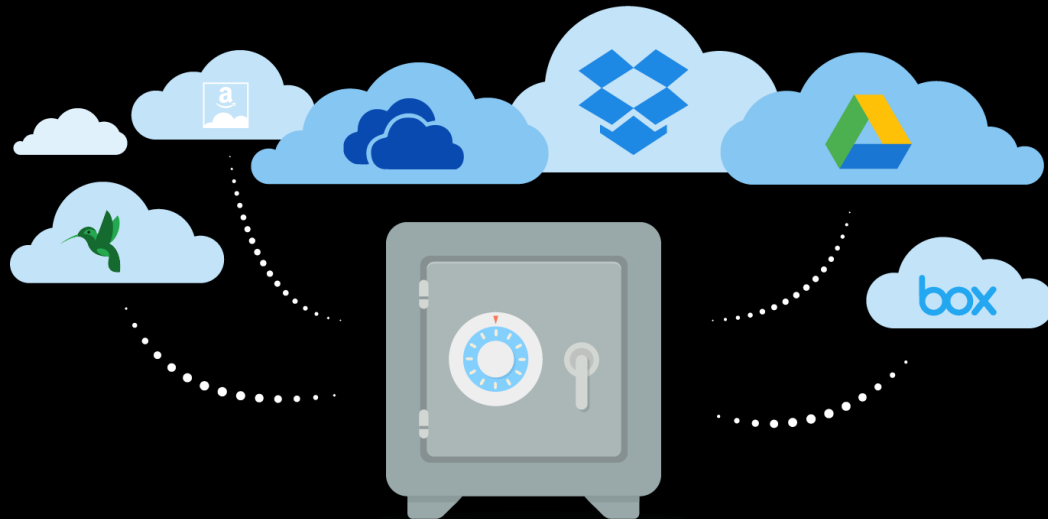


Transmission Pole Replacement Field Checklist

Item	Qty	Notes
1. Pole	1	
2. Crossarm	1	
3. Pin	1	
4. Insulator	1	
5. Hardware	1	
6. Spacers	1	
7. Brackets	1	
8. Wires	1	
9. Tools	1	
10. Safety	1	
11. Materials	1	
12. Labor	1	
13. Equipment	1	
14. Fuel	1	
15. Other	1	

Handwritten notes: "10 poles", "10 crossarms", "10 pins", "10 insulators", "10 hardware", "10 spacers", "10 brackets", "10 wires", "10 tools", "10 safety", "10 materials", "10 labor", "10 equipment", "10 fuel", "10 other".



Two overlapping forms titled 'Transmission Pole Replacement Field Checklist'. The forms contain various fields for data entry, including 'Job Name', 'Job No.', 'Job Date', 'Job Location', 'Job Status', 'Job Type', 'Job Category', 'Job Sub-category', 'Job Code', 'Job Description', 'Job Details', 'Job Notes', 'Job Comments', 'Job Status', 'Job Date', 'Job Location', 'Job Status', 'Job Type', 'Job Category', 'Job Sub-category', 'Job Code', 'Job Description', 'Job Details', 'Job Notes', 'Job Comments', 'Job Status', 'Job Date', 'Job Location', 'Job Status', 'Job Type', 'Job Category', 'Job Sub-category', 'Job Code', 'Job Description', 'Job Details', 'Job Notes', 'Job Comments'. There are also checkboxes and a 'RESET' button at the bottom.



