

























DOCUMENT CONTROL PROCESSING FORM

File Number:	DESN0079 Item No. 02		
Document Date:	08/12/25		
Document Type:	Plans		
DCPF Author:	Kevin W.		
Subject:	Preliminary: MOT SR167 Stage 1 Temp ITS		
To (Company):	WSDOT	To (Individual):	B Morris, D Russu, J Tran
From (Company):	Jacobs	From (Individual):	Eric Crowe
Additional Subject Information and/or Keywords		Schedule Activity:	N/A
RFP - 2.18, 2.22			
Distribution:		Attachments	<div>Yes</div> <input type="checkbox"/> <div>No</div> <input type="checkbox"/>
XE3476 - SR167 MOT Distribution		Notes:	
XE3476 - SR167 WSDOT Design Review			
XE3476 - Gatekeeper			
0			
0			

LEGEND

EXISTING NEW

	WAVETRONIX SENSOR
	TIMBER POLE
	INDUCTION LOOP VEHICLE DETECTOR
	INDUCTION WR LOOP VEHICLE DETECTOR
	WAVETRONIX DETECTION ZONE
	CONDUIT
	TEMPORARY CONCRETE BARRIER
	TYPE 1 JUNCTION BOX
	TYPE 2 JUNCTION BOX
	TYPE 8 JUNCTION BOX
	PULL BOX
	CABLE VAULT
	SMALL CABLE VAULT
	ELECTRICAL SERVICE CABINET
	CCTV CAMERA CABINET
	CCTV CAMERA
	DATA STATION/ RAMP METER CABINET
	TRANSFORMER CABINET
	RADIO ANTENNA
	CONSTRUCTION NOTE
	WIRE NOTE
	TIMBER POLE NUMBER
	WORK ZONE
	TRUCK ACCELERATION LANE

RA-P-Clarity how the existing fiber will be protected,going north back to hub. Suggest pulling existing fiber back to next PB north. Than do the conduit work to tie into new location of existing SCV.

TEMPORARY ITS CONSTRUCTION NOTES

- RELOCATE EXISTING SMALL CABLE VAULT.
- DISCONNECT AND RELOCATE EXISTING CABINET TO TEMPORARY FOUNDATION. REMOVE FOUNDATION COMPLETELY.REMOVE CONDUIT SWEEPS AND ABANADON EXISTING CONDUIT. KEEP ADJACENT JUNCTION BOXES IN PLACE.
- INSTALL EXISTING CABINETS ON TEMPORARY FOUNDATION.SPACING BETWEEN CABINETS SHALL BE MINIMUM 6".THERE SHALL BE MINIMUM 3' CLEAR SPACE IN FRONT OF EACH CABINET DOOR.ECO BLOCKS MAY BE USED TO SUPPORT TEMPORARY FOUNDATION AND THE TO MAINTAIN 3'LEVELED CLEAR SPACE. CABINETS SHALL BE PLACED SUCH THAT THERE ARE NO OBSTRUCTIONS (INCLUDING OTHER CABINET DOORS) TO STOP THE DOORS FROM SWINGING OPEN 90 DEGREES. PULL CONDUCTORS INTO CABINETS AND RETERMINATE AS ORIGINALLY TERMINATED.
- INSTALL CLASS 3 TIMBER POLE PER DETAILS ON SHEET SC20-TSD01. INSTALL TEMPORARY CONDUIT FROM JUNCTION BOX TO TIMBER POLE.ATTACH CONDUIT TO POLE AND INSTALL 2" WEATHERHEAD IN ACCORDANCE WITH STANDARD PLAN J-15.10-01, DETAIL "TIMBER LUMINAIRE SUPPORT".
- INSTALL ONE CLICK 112 CARD IN INPUT FILES.INSTALL ONE CLICK 200 UNIT AND ONE CLICK 201 UNIT ON THE DIN RAIL BRACKET.WIRE THEM PER WAVETRONIX MANUFACTURER RECOMMENDATIONS.
- THE RADIO ANTENNA COMES WITH POE INJECTOR AND SURGE PROTECTOR UNITS. INSTALL ONE POE INJECTOR AND ONE SURGE PROTECTOR ON THE DIN RAIL BRACKET IN THE CABINET.CONNECT THE ANTENNA CABLE TO THE SURGE PROTECTOR.CONNECT A CAT 5E PATCH CORD FROM THE SURGE PROTECTOR TO THE POE INJECTOR.CONNECT A CAT 5E PATCH CORD FROM THE POE INJECTOR TO AN OPEN PORT IN THE EXISTING RS900G SWITCH.PLUG THE POE INJECTOR INTO THE POWER STRIP.
- BEFORE LANE SHIFT IS IMPLEMENTED,INSTALL TEMPORARY WAVETRONIX RADAR DETECTOR ON TIMBER POLE PER MANUFACTURER RECOMMENDATIONS.
- INSTALL EXISTING SMALL CABLE VAULT SOUTH OF ITS EXISTING LOCATION SO THAT THE CENTER OF THE VAULT IS AT APROXIMATE SB167-1 LINE STA 236+43, OFFSET 58.69' RT.DO THIS AFTER THE 12 SMFO SR 167 DISTRIBUTION CABLE GOING WEST OUT OF THE VAULT HAS BEEN REMOVED.TAKE CARE TO PROTECT THE ACTIVE FIBER OPTIC CABLES INSIDE.REMOVE A PORTION OF THE EXISTING CONDUIT ON THE SOUTH SIDE OF THE VAULT AND TERMINATE THE NEW ENDPOINT OF THE CONDUIT IN THE VAULT.ON THE EAST SIDE OF THE VAULT,DIG UP AND EXPOSE A PORTION OF THE EXISTING CONDUIT SO THAT THE EXISTING CONDUIT CAN BEND TO THE NEW VAULT LOCATION.PATCH ALL HOLES IN THE VAULT WITH WATERTIGHT SEAL.
- FURNISH AND INSTALL ONE RADIO ANTENNA AND ANTENNA MOUNT ON EXISTING CAMERA POLE PER MANUFACTURER INSTRUCTIONS.INSTALL A CAT 5E CABLE FROM THE ANTENNA TO THE CAMERA CABINET.TO ROUTE THE ANTENNA CABLE DOWN THE POLE, REPLACE THE COVER OF THE HANDHOLE AT THE TOP OF THE POLE WITH A TEMPORARY COVER,DRILL A HOLE IN THE TEMP COVER AND INSTALL A CGB BUSHING THAT IS SIZED FOR THE ANTENNA CABLE.INSTALL THE CABLE THRU THE CGB FITTING TO THE INSIDE OF THE POLE, SUPPORT IT WITH A GRIP, AND ROUTE IT DOWN THE INSIDE OF THE POLE AND THRU THE EXISTING CONDUIT TO THE CABINET.ORIENT THE ANTENNA TO MAXIMIZE THE SIGNAL STRENGTH.
- ABANDON LOOPS AND PIEZO SENSORS.
- PRIOR TO INSTALLING THE TWO RADIO ANTENNAS,CONFIGURE THEM FOR THE 5 GHZ BANDWIDTH AND CONFIGURE OTHER SETTINGS NECESSARY TO MAKE THE WIRELESS SYSTEM FULLY FUNCTIONAL.



TEMPORARY ITS CONSTRUCTION NOTES

- COIL PTR SENSOR CABLES IN THE BOTTOM OF THE CABINET.
- REMOVE EXISTING CONDUCTORS AND ABANDON UNDERGROUND CONDUIT.
- REMOVE EXISTING CONDUCTORS AND PULLBOX.BACKFILL VOID.
- CUT AND REMOVE 1-12 SMFO CABLE THAT GOES WEST TO 005-VC-00554.
- THE PTR CABINET MAY BE OFFLINE FOR A MAXIMUM OF 12 MONTHS.

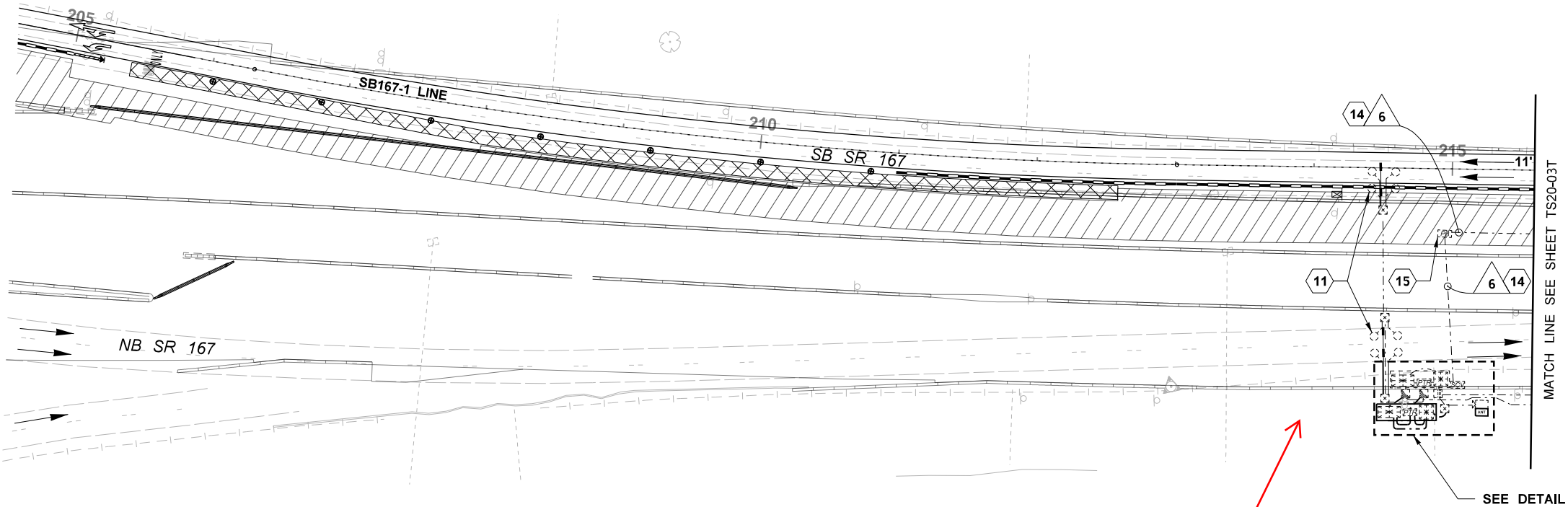
TEMPORARY ITS WIRING SCHEDULE					
△ NO.	CONDUIT SIZE	INNERDUCTS	CONDUCTORS		COMMENTS
			EXISTING	NEW	
1	2"			1-WAVETRONIX	TEMP CABLE
2	EX 2"		6-2C(SH)	1-WAVETRONIX	TEMP CABLE
3	EX 2"		1-CAT6		
	EX 2"		7-2C(SH)		
	EX 3'		EMPTY		
4	EX 4'				
		A	1-12 SMFO		DIST FIBER (SR512)
		B	1-12 SMFO		DIST FIBER (SR167 SB TO EAST)
		C	1-12 SMFO (R)	EMPTY	REMOVE DIST FIBER (SR 167 SB TO WEST)
5	EX 2"				
			EMPTY		
			EMPTY	1-WAVETRONIX, 1-CAT5E	TEMP CABLE, ANTENNA CABLE
4	EX 4'	A	1-12 SMFO		DIST FIBER (SR512)
		B	1-12 SMFO		DIST FIBER (SR167 SB TO EAST)
		C	1-12 SMFO (R)	EMPTY	REMOVE DIST FIBER (SR 167 SB TO WEST)
		D	EMPTY		
5	EX 2"		2-12 SMFO		PRE-TERM FIBER
	EX 3"		EMPTY		
6	EX 2"		1-12 SMFO (R)	EMPTY	REMOVE DIST FIBER (SR167 SB)
7	EX 4'	A	1-12 SMFO		DIST FIBER (SR512)
		B, C, D	EMPTY		
8	EX 4'	A, B, C, D	EMPTY		SPARE
9	2"			EMPTY	SPARE
10	EX 2"		1-CAT6	1-CAT 5E	EX CCTV CABLE, ANTENNA CABLE
11	2"		1-CAT6	1-CAT 5E	EX CCTV CABLE, ANTENNA CABLE
12	EX 2"		1-2C(SH)		EX LOOP CABLE
13	2"			EX 6-2CS	RELOCATED EX DETECTION AND PIEZO CABLES
14	2"			EX 3-#2	RELOCATED EX POWER FROM METER TO SERVICE CABINET
15	2"			EX 3-#8	RELOCATED EX 240V POWER TO VMS
16	2"			EX 2-#8	RELOCATED EX POWER FROM XF TO CABINET
17	EX 4"	A	1-12 SMFO		DIST FIBER (SR512)
		B	1-12 SMFO		DIST FIBER (SR167 SB)
		C	EMPTY		
		D	EMPTY		

WIRELESS EQUIPMENT		
ITEM	DESCRIPTION	WESTERN SYSTEMS PART NO.
RADIO ANTENNA	AXIOM SINGLE RADIO AX5-1	6280017000
ANTENNA MOUNT	ASTRO-BRAC GALAXY HINGED CAMERA BRACKET	6280030012

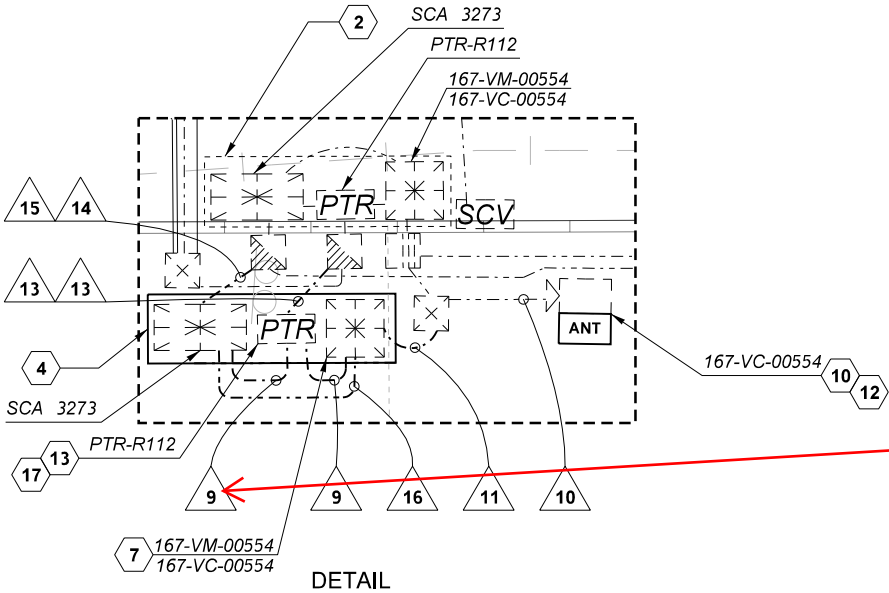
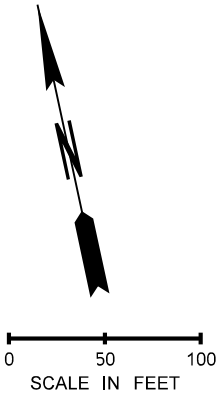
RA-R-This is the existing electrical service SCA 3273, not a existing transformer.

FILE NAME c:\users\wegenemf\appdata\local\bentley\projectwise\jacobs-america-01\0263463\XL3476_PS_SC20-TN01.dgn											PRELIMINARY NOT FOR CONSTRUCTION	 Washington State Department of Transportation ATKINSON / Jacobs CONSTRUCTION	SR 167 SR 161 TO SR 410 REBUILD INTERCHANGE SR167 STAGE 1 TEMPORARY ITS PLANS	PLAN REF NO
TIME 3:10:29 PM				REGION NO.	STATE	FED.AID PROJ.NO.	SC20							
DATE 8/8/2025				10	WASH	0167(059)	-TN01							
PLOTTED BY WEGENEMF				JOB NUMBER										
DESIGNED BY I. AGRON														
ENTERED BY I. AGRON				CONTRACT NO.	LOCATION NO.									
CHECKED BY M. WEGENER														
PROJ. ENGR. T. SLIMAK	REV A - PRELIMINARY REVIEW	08/10/25		XE3476										
REGIONAL ADM. S. ROARK	REVISION	DATE	BY											

NOTE:
1. SEE SC20 PLAN SERIES FOR ASSOCIATED MOT PLANS.



RA-P-Clarify. Per construction note 11, it says to abandon Loops and Piezo sensors. Wn #13 says, Relocate Detection and Piezo cables.



RA-R-Install a temporary Wavetronix system for PTR Data. Per RFP 2.18.4.6.2

RA-R-WN #9 show no conductors in that conduit system. To accomplish RFP 2.18.4.17.1 (Design-Builder shall ensure moisture is prevented from entering ITS components and enclosures) the PTR will need to be powered up. To accomplish this, conductors will need to be added to WN #9.

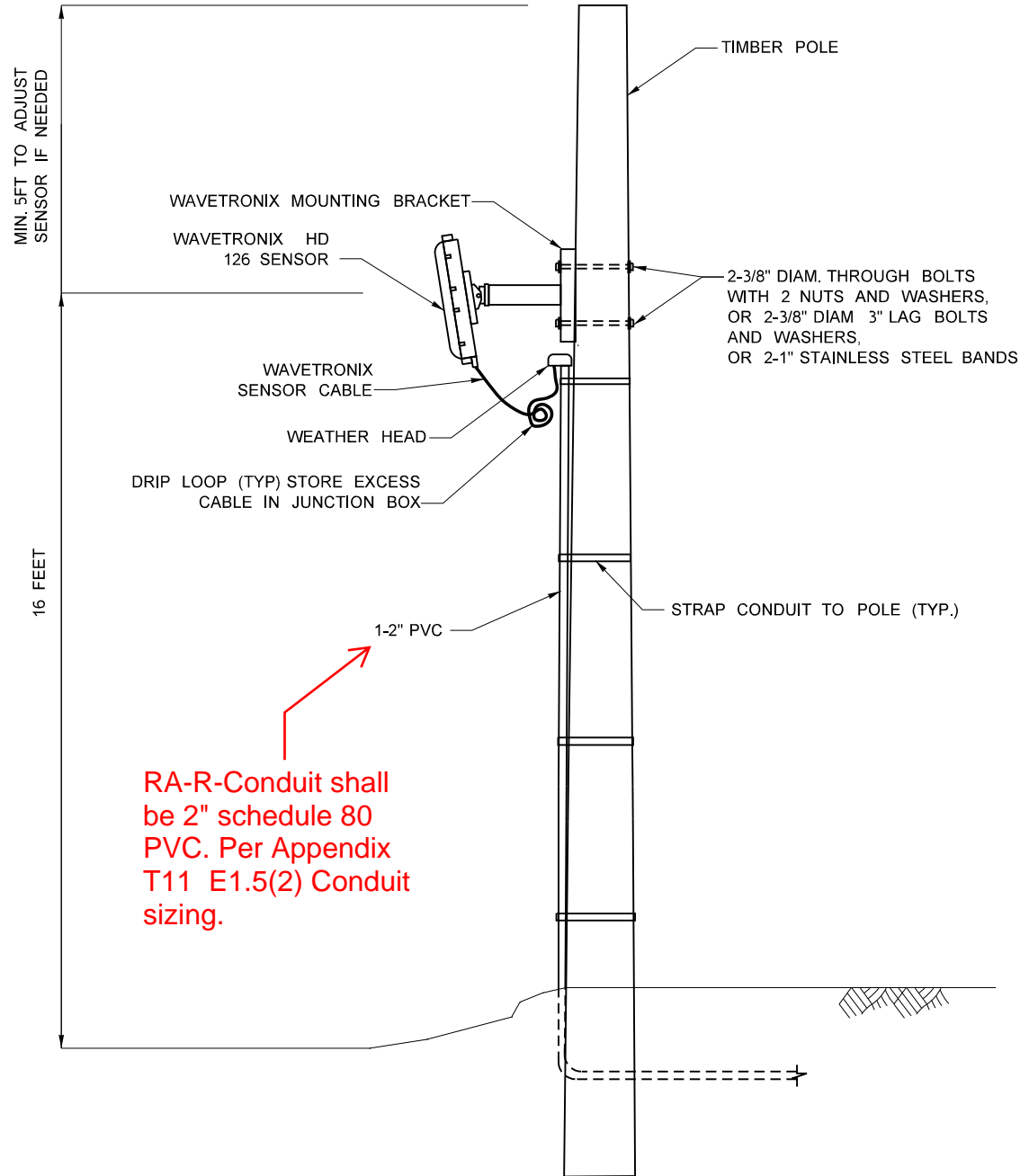
FILE NAME c:\users\agronmi\appdata\local\bentley\projectwise\jacobs-america\01\0263463\XL3476_PS_SC20-02T.dgn																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																															
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NOTES

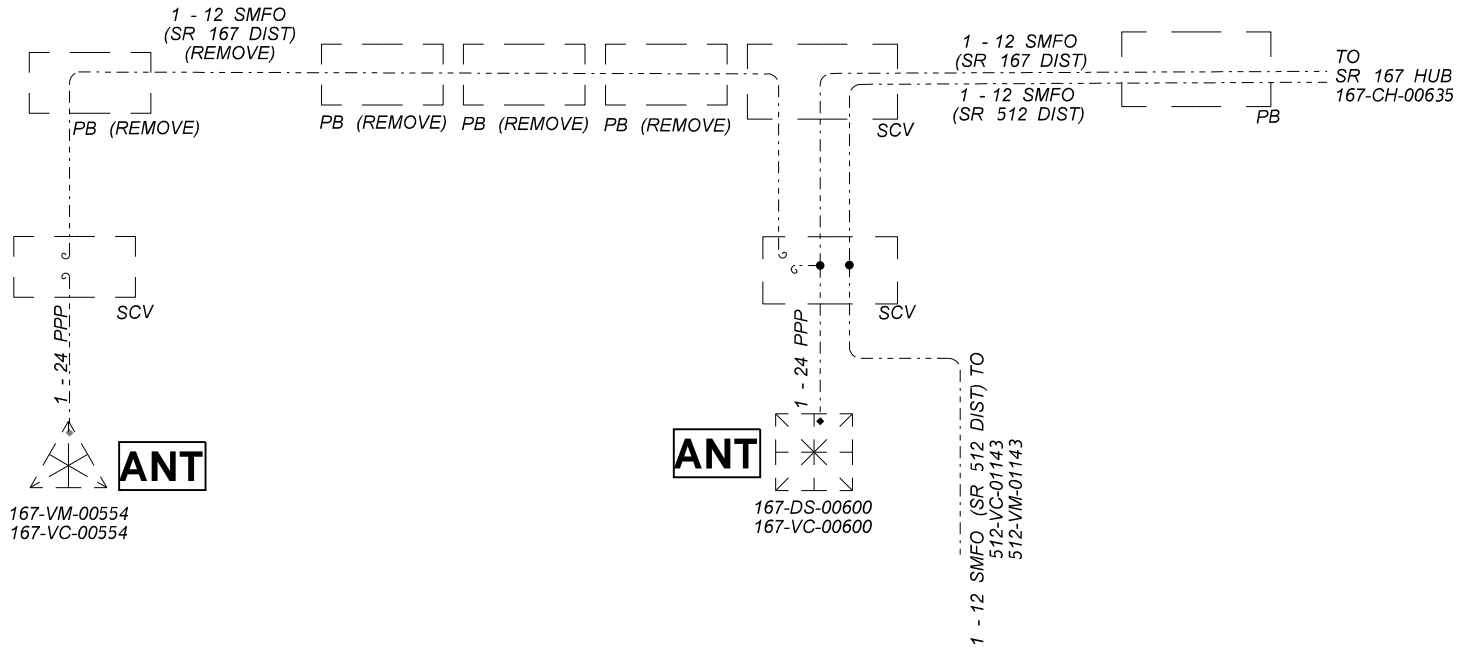
1. TIMBER POLE SHALL BE SET IN ACCORDANCE WITH STANDARD SPEC 9-29.6(3).
2. ALL HARDWARE SHALL BE STAINLESS STEEL OR GALVANIZED.
3. WAVETRONIX MOUNTING HEIGHT MAY BE ADJUSTED DURING INSTALLATION, BASED ON FIELD CONDITIONS AND MANUFACTURER RECOMMENDATIONS.

TEMPORARY POLE SCHEDULE

POLE #	POLE LOCATION			CABINET	SHEET NO.
	LINE	STATION	OFFSET		
1	NB167-1	241+61	153.70' RT	167-DS-00600	SC20-05T



TEMPORARY WAVETRONIX ASSEMBLY DETAIL



TEMPORARY DISTRIBUTION DIAGRAM

FILE NAME c:\users\wegenemf\appdata\local\bentley\projectwise\jacobs-america\01\0263463\XL3476_PS_SC20-TSD01.dgn										REGION NO. STATE		FED.AID PROJ.NO.		<div></div>
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