

Design: 1. HOPE JUNCTION/SIVERTIP ADSS FIBER INSTALL
ISSUED FOR CONSTRUCTION - REV 1

Project: C2230004

Structure: 00. GENERAL

<u>Assembly Unit</u>	<u>Activity</u>	<u>#Cond</u>	<u>Qty</u>	<u>Unit Description</u>	Complete	Qty
SURL	Install		0.5	SURL (LANDSCAPING)		
TRAFFIC CTRL	Install		0.5	TRAFFIC CTRL (TRAFFIC CONTROL)		
AVALANCHE E/W	Install		0.5	AVALANCHE E/W (AVALANCHE EVALUATION AND WATCH)		
SWPPP-BP	Install		0.5	SWPPP-BP (STORM WATER POLLUTION PREVENTION PLAN - BEST PRACTICES)		

Remarks: IN THESE STAKING SHEETS AND ON THE DRAWINGS, CHUGACH STANDARD ASSEMBLY UNITS AND PROJECT SPECIFIC ASSEMBLIES ARE CALLED OUT. REFERENCE DETAILS SHOWN ON THE DRAWINGS FOR PROJECT SPECIFIC ASSEMBLIES.

THE SPAN LENGTHS SHOWN ON THE DRAWINGS ARE HORIZONTAL DISTANCES. THEY ARE BASED ON FIELD MEASUREMENTS; HOWEVER, THEY ARE NOT SURVEYED DISTANCES. DUE TO THE STEEPNESS OF THE GRADE FOR THE 1ST HALF OF THE PROJECT, THE CABLE LENGTHS FOR SEVERAL SPANS WILL BE APPRECIABLY LONGER THAN THE HORIZONTAL DISTANCES SHOWN.

CLEARING AND LANDSCAPING: CLEARING IS NOT REQUIRED; HOWEVER, CLEARING MAY BE REQUIRED TO FACILITATE THE CONTRACTOR'S EFFORTS TO COMPLETE THE REQUIRED WORK. ANY CLEARING PERFORMED SHALL BE INCIDENTAL TO THE PROJECT AND NO SEPARATE PAYMENT FOR CLEARING SHALL BE PROVIDED. THE CONTRACTOR SHALL ENDEAVOR TO PROTECT THE R-O-W. THE SURL UNIT IS FOR RETURNING THE DISTURBED AREAS OF CONSTRUCTION TO NOMINALLY SAME CONDITIONS AS FOUND.

AVALANCHE EVALUATION AND WATCH: SECTIONS OF THE FIBER-OPTIC ROUTE MAY BE SUSCEPTIBLE TO AVALANCHES. CONTRACTOR TO PROVIDE PROFESSIONAL AVALANCHE EVALUATION PRIOR TO CONSTRUCTION TO IDENTIFY SECTIONS (AREAS) OF THE ROUTE THAT MAY BE SUSCEPTIBLE TO AVALANCHES AND PROVIDE A PROFESSIONAL WATCH DURING CONSTRUCTION IN AREAS WHERE AVALANCHE RISK EXISTS.

TRAFFIC CONTROL: PROVIDE, GET APPROVAL FOR, AND IMPLEMENT A TRAFFIC CONTROL PLAN.

STORM WATER POLLUTION PREVENTION PLAN - BEST PRACTICES: PROVIDE AND IMPLEMENT A STORM WATER POLLUTION PREVENTION PLAN, UTILIZING BEST PRACTICES. GET APPROVAL FOR PLAN, FROM AUTHORITY HAVING JURISDICTION, IF REQUIRED.

Structure: 01. FO CONDUIT SPLICE PT

<u>Assembly Unit</u>	<u>Activity</u>	<u>#Cond</u>	<u>Qty</u>	<u>Unit Description</u>	Complete	Qty
FO-CABLE	Existing		-	FO CABLE (FIBER OPTIC CABLE)		
HDPE4	Existing		-	HDPE4 (4" HDPE)		
INNERDUCTS	Existing		-	INNERDUCTS (INNERDUCTS)		
HDPE4	Remove		-	HDPE4 (4" HDPE)		
HDPE-RGS-SPL	Install		1	HDPE-RGS-SPL (4" CONDUIT SPLICE)		

Remarks: THE EXISTING FO CABLE IS TO BE CUT AND BOTH ENDS FUSION SPLICED WITHIN THE ENCLOSURE ON THE CEA H-FRAME.

THE EXISTING (3) INNERDUCTS IN THE 4" HDPE ARE TO BE CUT AND ALL THREE EXTENDED INTO THE ENCLOSURE ON THE H-FRAME.

THE EXISTING FO CABLE WAS INSTALLED IN ONE OF THE THREE INNERDUCTS INSIDE THE EXISTING 4" HDPE CONDUIT.

THE 4" HDPE CONDUIT IS TO BE SPLICED TO 4" LIQUIDTIGHT FLEX (INSTALLED OVER/AROUND THE EXISTING INNER-DUCTS) WITH AN RGS NIPPLE (HDPE-RGS-SPL), SEE DETAIL. RETIRE EXISTING HDPE4 AS REQUIRED.

THE THREE INNERDUCTS ARE TO BE ROUTED THROUGH THE NEW 4" LIQUIDTIGHT FLEX, AND TRIMMED TO EXTEND 6" INTO THE ENCLOSURE ON THE H-FRAME.

-CAREFULLY PROTECT THE EXISTING FIBER OPTIC CABLE-

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Structure:		02. CEA H-FRAME				
<u>Assembly Unit</u>	<u>Activity</u>	<u>#Cond</u>	<u>Qty</u>	<u>Unit Description</u>	Complete	Qty
FO-CABLE	Existing	-		FO CABLE		
FO-CABLE	Existing	-		FO CABLE		
INNERDUCTS	Existing	-		INNERDUCTS		
HDPE4	Remove	-		HDPE4		
ADSS	Install		50	ADSS (ADSS FIBER OPTIC CABLE)		
FO-SPLICE	Install		48	FO-SPLICE (FIBER OPTIC FUSION SPLICE)		
FO-CASSETTE	Install		2	FO-CASSETTE (FO CASSETTE)		
CEA-FO-H-FRAME	Install		1	H-FRAME (POST MOUNTED ENCLOSURE)		
LQDTFL4	Install		25	LQDTFL4 (4" LIQUIDTIGHT FLEX)		
SUR2-NT	Install		15	SUR2-NT (NORMAL TRENCH, 42" - 48" DEPTH)		

Remarks: ANTICIPATE ROCK EXCAVATION.

LOCATE THE CEA-FO-H-FRAME AS FOLLOWS:

- NOT CLOSER THAN 11' FROM THE CENTERLINE OF THE OVERHEAD POWERLINE.
- NOT CLOSER THAN 10' FROM THE FACE OF THE PADMOUNT TRANSFORMER.
- IN A LOCATION AGREED TO, IN WRITING, FROM THE OWNER.

PROVIDE QUANTITY OF LQDTFL4 AS REQUIRED FOR INSTALLATION; ANTICIPATED TO BE LESS THAN 25'.

PROVIDE SUFFICIENT TRENCH (SUR2-NT) TO BURY CONDUIT SPLICE AND TO NOT EXCEED LIQUIDTIGHT BEND RADII. PROVIDE MINIMUM 24" EMBEDMENT.

THE FO CABLE AND INNERDUCTS CALLED-OUT AS EXISTING ARE TO BE RELOCATED/INSTALLED INTO THE ENCLOSURE WITHIN THE NEW SECTION OF 4" LIQUIDTIGHT FLEX FROM THE FO CONDUIT SPLICE PT.

BEGIN INSTALLATION OF LQDTFL4 TO POLE R4. THIS CONDUIT WILL HAVE (3) INNERDUCTS. (1) WILL CONTAIN THE NEW ADSS TO POLE R4. (1) WILL CONTAIN THE EXISTING FO TO POLE R4.

PROVIDE (4) COILS OF UN-STRIPPED EXISTING FO CABLE IN THE ENCLOSURE , FOR CIRCUIT TO MICROWAVE SITE.

PROVIDE (1) COIL OF UN-STRIPPED EXISTING FO CABLE IN THE ENCLOSURE, FOR CIRCUIT TO HOPE SUBSTATION (TO POLE R4).

PROVIDE (1) COIL OF UN-STRIPPED NEW ADSS CABLE IN THE ENCLOSURE .

FO-SPLICE: PERFORM FUSION SPLICES OF (2) BUFFER TUBES (24 FIBERS) OF THE EXISTING FO CABLES (CIRCUIT BETWEEN HOPE SUBSTATION AND THE MICROWAVE SITE).

FO-SPLICE: PERFORM FUSION SPLICES OF (2) BUFFER TUBES (24 FIBERS) OF THE EXISTING FO CABLE TO THE NEW ADSS CABLE (CIRCUIT BETWEEN THE MICROWAVE SITE AND THE AT&T H-FRAME).

FO-CASSETTE: INSTALL SPLICES FOR EACH CIRCUIT IN SEPARATE FO CASSETTES

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Structure:		03. POLE R4				
<u>Assembly Unit</u>	<u>Activity</u>	<u>#Cond</u>	<u>Qty</u>	<u>Unit Description</u>	<u>Complete</u>	<u>Qty</u>
1/0 ACSR	Existing	1	-	1/0 ACSR		
1/0 ACSR NEUTRAL	Existing	1	-	1/0 ACSR NEUTRAL		
40/5	Existing		1	40/5 POLE		
VA9X	Existing		1	VA9X (DBL. CROSSARM, W/PT PIN)		
SVG39-25	Existing		1	SVG39-25 (25 kVA POLE MOUNT XFMR)		
SM52-3	Existing		1	SM52-3 (POLE NUMBER)		
F1-4P	Existing		1	F1-4P (PLATE ANCHOR)		
FO-CABLE	Existing		50	FO CABLE (FIBER OPTIC CABLE)		
FO-STORAGE	Existing		1	FO-STORAGE (FIBER OPTIC STORAGE)		
SE1-3	Remove		2	SE1-3 (DOWN GUY)		
F1-4P	Remove		1	F1-4P (PLATE ANCHOR)		
FO-RISER	Remove		1	FO-RISER (FIBER OPTIC RISER)		
SE1-4	Install		2	SE1-4 (DOWN GUY)		
SF-4P	Install		1	SF-4P (PLATE ANCHOR)		
ADSS	Install		50	ADSS (ADSS FIBER OPTIC CABLE)		
ADSS	Install		150	ADSS (ADSS FIBER OPTIC CABLE)		
LQDTFL4	Install		25	LQDTFL4 (4" LIQUIDTIGHT FLEX)		
HDPE1.25	Install		150	HDPE1.25 (1-1/4" ORANGE SCHDL 40 HDPE)		
SUR2-NT	Install		15	SUR2-NT (NORMAL TRENCH, 42" - 48" DEPTH)		
FO-RISER-1	Install		1	FO-RISER (FIBER OPTIC RISER)		
1-1/2" U-GUARD	Install		20	1-1/2" UG-GUARD (U-GUARD W/ FASTENERS)		
FO-DE	Install		1	FO-DE (FIBER OPTIC DEADEND)		
THIMBL-EYE-BLT	Install		1	BOLT, THIMBLE-EYE		

Remarks: ANTICIPATE ROCK EXCAVATION.

REPLACE ANCHOR TO SOUTHWEST.

REPLACE BOTH GUYS.

PROVIDE 24" EMBEDMENT FOR LIQUIDTIGHT CONDUIT BETWEEN H-FRAME AND POLE.

PROVIDE (3) INNERDUCTS (HDPE1.25) IN 4" CONDUIT AND RISER.

INSTALL EXISTING FO-CABLE AND NEW ADSS IN SEPARATE INNERDUCTS.

SECOND CALL-OUT OF ADSS (150') IS FOR STORAGE. INSTALL STORAGE ON EXISTING STORAGE BRACKET.

SEGREGATE EXISTING STORAGE COILS FROM NEW STORAGE COILS, MAKING THEM BOTH ACCESSIBLE.

INSTALL U-GUARD OVER EXISTING UNSECURED TELECOMMUNICATION RISER.

INSTALL THIMBLE-EYE BOLT 12" BELOW EXISTING ADSS ATTACHMENT.

RELOCATE EXISTING TELECOMMUNICATIONS ATTACHMENT TO THE NE, TO THE THIMBLE-EYE BOLT.

INSTALL THE FO-DE ON THE VACATED ATTACHMENT BOLT.

Structure:		04. POLE R4A				
<u>Assembly Unit</u>	<u>Activity</u>	<u>#Cond</u>	<u>Qty</u>	<u>Unit Description</u>	<u>Complete</u>	<u>Qty</u>
1/0 ACSR	Existing	1	95	1/0 ACSR		
1/0 ACSR NEUTRAL	Existing	1	95	1/0 ACSR NEUTRAL		
40/5	Existing		1	40/5 POLE		
VA8X	Existing		1	VA8X(DBL. CROSSARM DBL. DEADEND)		
SE1-3	Existing		1	SE1-3 (DOWN GUY)		
F1-4P	Existing		1	F1-4P (PLATE ANCHOR)		
SVM5-9C	Existing		1	SVM5-9C (CUT-OUT, LB, SOLID BLADE)		
SM52-3	Existing		1	SM52-3 (POLE NUMBER)		
ADSS	Install		95	ADSS (ADSS FIBER OPTIC CABLE)		
FO-TAN	Install		1	FO-TAN (FIBER OPTIC TANGENT)		

Remarks:

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Structure: 05. POLE 12R5 (NO# IN FIELD)

<u>Assembly Unit</u>	<u>Activity</u>	<u>#Cond</u>	<u>Qty</u>	<u>Unit Description</u>	Complete	Qty
1/0 ACSR	Existing	1	207	1/0 ACSR		
1/0 ACSR NEUTRAL	Existing	1	207	1/0 ACSR NEUTRAL		
40/5	Existing		1	40/5 POLE		
VA9X	Existing		1	VA9X (DBL. CROSSARM, W/PT PIN)		
M2-11	Existing		1	M2-11 (POLE GROUND)		
ADSS	Install		207	ADSS (ADSS FIBER OPTIC CABLE)		
FO-TAN	Install		1	FO-TAN (FIBER OPTIC TANGENT)		
FO-DMPR	Install		1	FO-DMPR (FO VIBRATION DAMPER)		

Remarks: INSTALL FO-DMPR ON SPAN TO NE (DOWN HILL SPAN).

Structure: 06. POLE 12R6 (NO# IN FIELD)

<u>Assembly Unit</u>	<u>Activity</u>	<u>#Cond</u>	<u>Qty</u>	<u>Unit Description</u>	Complete	Qty
1/0 ACSR	Existing	1	355	1/0 ACSR		
1/0 ACSR NEUTRAL	Existing	1	355	1/0 ACSR NEUTRAL		
40/5	Existing		1	40/5 POLE		
VA9X	Existing		1	VA9X (DBL. CROSSARM, W/PT PIN)		
SE1-3	Existing		1	SE1-3 (DOWN GUY)		
SVEM-I42	Existing		1	SVEM-I42 (STRAIN, INSULATOR)		
F1-4P	Existing		1	F1-4P (PLATE ANCHOR)		
ADSS	Install		355	ADSS (ADSS FIBER OPTIC CABLE)		
FO-TAN	Install		1	FO-TAN (FIBER OPTIC TANGENT)		
FO-DMPR	Install		2	FO-DMPR (FO VIBRATION DAMPER)		

Remarks:

Structure: 07. POLE 12R6A

<u>Assembly Unit</u>	<u>Activity</u>	<u>#Cond</u>	<u>Qty</u>	<u>Unit Description</u>	Complete	Qty
1/0 ACSR	Existing	1	~196	1/0 ACSR		
1/0 ACSR NEUTRAL	Existing	1	~196	1/0 ACSR NEUTRAL		
ADSS	Install		~196	ADSS (ADSS FIBER OPTIC CABLE)		
FO-TAN	Install		1	FO-TAN (FIBER OPTIC TANGENT)		
FO-DMPR	Install		2	FO-DMPR (FO VIBRATION DAMPER)		

Remarks:

Structure: 08. POLE 12R7 (NO# IN FIELD)

<u>Assembly Unit</u>	<u>Activity</u>	<u>#Cond</u>	<u>Qty</u>	<u>Unit Description</u>	Complete	Qty
1/0 ACSR	Existing	1	~151	1/0 ACSR		
1/0 ACSR NEUTRAL	Existing	1	~151	1/0 ACSR NEUTRAL		
40/5	Existing		1	40/5 POLE		
VA9X	Existing		1	VA9X (DBL. CROSSARM, W/PT PIN)		
ADSS	Install		~151	ADSS (ADSS FIBER OPTIC CABLE)		
FO-TAN	Install		1	FO-TAN (FIBER OPTIC TANGENT)		
FO-DMPR	Install		2	FO-DMPR (FO VIBRATION DAMPER)		

Remarks:

Structure: 09. POLE 12R8 (NO# IN FIELD)

<u>Assembly Unit</u>	<u>Activity</u>	<u>#Cond</u>	<u>Qty</u>	<u>Unit Description</u>	Complete	Qty
1/0 ACSR	Existing	1	335	1/0 ACSR		
1/0 ACSR NEUTRAL	Existing	1	335	1/0 ACSR NEUTRAL		
50/3	Existing		1	50/3 POLE		
VA9X	Existing		1	VA9X (DBL. CROSSARM, W/PT PIN)		
M2-11	Existing		1	M2-11 (POLE GROUND)		
ADSS	Install		335	ADSS (ADSS FIBER OPTIC CABLE)		
FO-TAN	Install		1	FO-TAN (FIBER OPTIC TANGENT)		
FO-DMPR	Install		1	FO-DMPR (FO VIBRATION DAMPER)		

Remarks: INSTALL FO-DMPR ON SPAN TO SW (UP HILL SPAN).

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Structure: 10. POLE R8A

<u>Assembly Unit</u>	<u>Activity</u>	<u>#Cond</u>	<u>Qty</u>	<u>Unit Description</u>	Complete	Qty
1/0 ACSR	Existing	1	206	1/0 ACSR		
1/0 ACSR NEUTRAL	Existing	1	206	1/0 ACSR NEUTRAL		
40/2	Existing		1	40/2 POLE		
VA9X	Existing		1	VA9X (DBL. CROSSARM, W/PT PIN)		
SM52-3	Existing		1	SM52-3 (POLE NUMBER)		
ADSS	Install		206	ADSS (ADSS FIBER OPTIC CABLE)		
FO-TAN	Install		1	FO-TAN (FIBER OPTIC TANGENT)		

Remarks:

Structure: 11. POLE 12R9

<u>Assembly Unit</u>	<u>Activity</u>	<u>#Cond</u>	<u>Qty</u>	<u>Unit Description</u>	Complete	Qty
1/0 ACSR	Existing	1	157	1/0 ACSR		
1/0 ACSR NEUTRAL	Existing	1	157	1/0 ACSR NEUTRAL		
40/5	Existing		1	40/5 POLE		
VA8X	Existing		1	VA8X (DBL. CROSSARM DBL. DEADEND)		
VM5-5	Existing		2	VM5-5 (PIN, JUMPERING, XARM)		
M5-5	Existing		2	M5-5 (PIN, JUMPERING, XARM)		
E3-1d	Existing		1	E3-1d (DOWN GUY, WRAP TYPE, DBL. 10M)		
F1-3P	Existing		2	F1-3P (PLATE ANCHOR)		
SM52-3	Existing		1	SM52-3 (POLE NUMBER)		
M2-11	Existing		1	M2-11 (POLE GROUND)		
ADSS	Install		157	ADSS (ADSS FIBER OPTIC CABLE)		
FO-ANGL	Install		1	FO-ANGL (FIBER OPTIC ANGLE)		
SE1-4	Install		1	SE1-4 (DOWN GUY)		

Remarks: INSTALL GUY TO EXISTING ANCHOR WITH 30' LEAD.

Structure: 12. POLE R9A

<u>Assembly Unit</u>	<u>Activity</u>	<u>#Cond</u>	<u>Qty</u>	<u>Unit Description</u>	Complete	Qty
1/0 ACSR	Existing	1	189	1/0 ACSR		
1/0 ACSR NEUTRAL	Existing	1	189	1/0 ACSR NEUTRAL		
40/2	Existing		1	40/2 POLE		
VA9X	Existing		1	VA9X (DBL. CROSSARM, W/PT PIN)		
SM52-3	Existing		1	SM52-3 (POLE NUMBER)		
ADSS	Install		189	ADSS (ADSS FIBER OPTIC CABLE)		
ADSS	Install		150	ADSS (ADSS FIBER OPTIC CABLE)		
FO-DE	Install		2	FO-DE (FIBER OPTIC DEADEND)		
FO-STORAGE	Install		1	FO-STORAGE (FIBER OPTIC STORAGE)		
FO-DL-CLAMP	Install		3	FO-DL-CLAMP (FO DOWN LEAD CLAMP)		

Remarks: SECOND CALL-OUT OF ADSS IS FOR STORAGE.
INSTALL 2 OR 3 DOWN LEAD CLAMPS AS REQUIRED.

Structure: 13. POLE 12R10 (NO# IN FIELD)

<u>Assembly Unit</u>	<u>Activity</u>	<u>#Cond</u>	<u>Qty</u>	<u>Unit Description</u>	Complete	Qty
1/0 ACSR	Existing	1	206	1/0 ACSR		
1/0 ACSR NEUTRAL	Existing	1	206	1/0 ACSR NEUTRAL		
50/1	Existing		1	50/1 POLE		
VA9X	Existing		1	VA9X (DBL. CROSSARM, W/PT PIN)		
ADSS	Install		206	ADSS (ADSS FIBER OPTIC CABLE)		
FO-TAN	Install		1	FO-TAN (FIBER OPTIC TANGENT)		

Remarks:

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Structure: 14. POLE R10A

<u>Assembly Unit</u>	<u>Activity</u>	<u>#Cond</u>	<u>Qty</u>	<u>Unit Description</u>	Complete	Qty
1/0 ACSR	Existing	1	182	1/0 ACSR		
1/0 ACSR NEUTRAL	Existing	1	182	1/0 ACSR NEUTRAL		
45/3	Existing		1	45/3 POLE		
VA9-1X	Existing		1	VA9-1X (SINGLE CROSSARM, W/PT PIN)		
SM52-3	Existing		1	SM52-3 (POLE NUMBER)		
ADSS	Install		182	ADSS (ADSS FIBER OPTIC CABLE)		
FO-TAN	Install		1	FO-TAN (FIBER OPTIC TANGENT)		

Remarks:

Structure: 15. POLE 12R11

<u>Assembly Unit</u>	<u>Activity</u>	<u>#Cond</u>	<u>Qty</u>	<u>Unit Description</u>	Complete	Qty
1/0 ACSR	Existing	1	263	1/0 ACSR		
1/0 ACSR NEUTRAL	Existing	1	263	1/0 ACSR NEUTRAL		
40/2	Existing		1	40/2 POLE		
VA9X	Existing		1	VA9X (DBL. CROSSARM, W/PT PIN)		
SM52-3	Existing		1	SM52-3 (POLE NUMBER)		
ADSS	Install		263	ADSS (ADSS FIBER OPTIC CABLE)		
FO-TAN	Install		1	FO-TAN (FIBER OPTIC TANGENT)		

Remarks:

Structure: 16. POLE 12R12 (NO# IN FIELD)

<u>Assembly Unit</u>	<u>Activity</u>	<u>#Cond</u>	<u>Qty</u>	<u>Unit Description</u>	Complete	Qty
1/0 ACSR	Existing	1	183	1/0 ACSR		
1/0 ACSR NEUTRAL	Existing	1	183	1/0 ACSR NEUTRAL		
40/5	Existing		1	40/5 POLE		
VM5-2	Existing		1	VM5-2 (POLE TOP PIN)		
ADSS	Install		183	ADSS (ADSS FIBER OPTIC CABLE)		
FO-TAN	Install		1	FO-TAN (FIBER OPTIC TANGENT)		

Remarks:

Structure: 17. POLE 12R13

<u>Assembly Unit</u>	<u>Activity</u>	<u>#Cond</u>	<u>Qty</u>	<u>Unit Description</u>	Complete	Qty
1/0 ACSR	Existing	1	284	1/0 ACSR		
1/0 ACSR NEUTRAL	Existing	1	284	1/0 ACSR NEUTRAL		
40/4	Existing		1	40/4 POLE		
SVA8A	Existing		1	SVA8A (HUGHES XARM, DBL. DEADEND)		
M2-11	Existing		1	M2-11 (POLE GROUND)		
SM52-3	Existing		1	SM52-3 (POLE NUMBER)		
ADSS	Install		284	ADSS (ADSS FIBER OPTIC CABLE)		
FO-DE	Install		2	FO-DE (FIBER OPTIC DEADEND)		

Remarks:

Structure: 18. POLE 12R14

<u>Assembly Unit</u>	<u>Activity</u>	<u>#Cond</u>	<u>Qty</u>	<u>Unit Description</u>	Complete	Qty
1/0 ACSR	Existing	1	279	1/0 ACSR		
1/0 ACSR NEUTRAL	Existing	1	279	1/0 ACSR NEUTRAL		
40/4	Existing		1	40/4 POLE		
VA9	Existing		1	VA9 (DBL. CROSSARM)		
ADSS	Install		279	ADSS (ADSS FIBER OPTIC CABLE)		
ADSS	Install		150	ADSS (ADSS FIBER OPTIC CABLE)		
FO-DE	Install		2	FO-DE (FIBER OPTIC DEADEND)		
FO-STORAGE	Install		1	FO-STORAGE (FIBER OPTIC STORAGE)		
FO-DL-CLAMP	Install		3	FO-DL-CLAMP (FO DOWN LEAD CLAMP)		
FO-WARNING	Install		2	FO-WARNING (FO IN SUPPLY SPACE SIGN)		

Remarks: SECOND CALL-OUT OF ADSS IS FOR STORAGE.
INSTALL 2 OR 3 DOWN LEAD CLAMPS AS REQUIRED.

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1/0 ACSR	Existing	1	261	1/0 ACSR		
1/0 ACSR NEUTRAL	Existing	1	261	1/0 ACSR NEUTRAL		
40/2	Existing		1	40/2 POLE		
SVA7A	Existing		1	SVA7A (HUGHES XARM, DEADEND)		
SVA8A	Existing		1	SVA8A (HUGHES XARM, DBL. DEADEND)		
SE1-3	Existing		1	SE1-3 (DOWN GUY)		
SF-4PL	Existing		1	SF-4PL (PLATE ANCHOR)		
SF-4P	Existing		1	SF-4P (PLATE ANCHOR)		
M2-11	Existing		1	M2-11 (POLE GROUND)		
SE1-4	Install		2	SE1-4 (DOWN GUY)		
SF-4P	Install		1	SF-4P (PLATE ANCHOR)		
ADSS	Install		261	ADSS (ADSS FIBER OPTIC CABLE)		
FO-DE	Install		2	FO-DE (FIBER OPTIC DEADEND)		
FO-DL-CLAMP	Install		2	FO-DL-CLAMP (FO DOWN LEAD CLAMP)		
FO-WARNING	Install		2	FO-WARNING (FO IN SUPPLY SPACE SIGN)		

Remarks: UTILIZE DOWN LEAD CLAMPS TO TRANSITION BETWEEN DIFFERENT ADSS ATTACHMENT HEIGHTS, AS REQUIRED.
INSTALL GUY AND ANCHOR OPPOSITE SPAN TO POLE 6234.
INSTALL GUY TO EXISTING ANCHOR OPPOSITE SPAN TO 12R14 (OPPOSITE CROSSING).

Structure: 20. POLE 6234 (NO# IN FIELD)

<u>Assembly Unit</u>	<u>Activity</u>	<u>#Cond</u>	<u>Qty</u>	<u>Unit Description</u>	Complete	Qty
1/0 ACSR	Existing	1	270'	1/0 ACSR		
1/0 ACSR NEUTRAL	Existing	1	270'	1/0 ACSR NEUTRAL		
40/2	Existing		1	40/2 POLE		
VA8	Existing		1	VA8 (DBL. CROSSARM DBL. DEADEND)		
VA7	Existing		1	VA7 (DOUBLE CROSSARM DEADEND)		
SE1-3	Existing		2	SE1-3 (DOWN GUY)		
SF-4P	Existing		2	SF-4P (PLATE ANCHOR)		
SVM5-9B	Existing		1	SVM5-9B (CUT-OUT, LB, FUSED)		
VM5-5	Existing		1	VM5-5 (PIN, JUMPERING, XARM)		
M5-5	Existing		1	M5-5 (PIN, JUMPERING, XARM)		
ADSS	Install		270	ADSS (ADSS FIBER OPTIC CABLE)		
ADSS	Install		150	ADSS (ADSS FIBER OPTIC CABLE)		
FO-DE	Install		2	FO-DE (FIBER OPTIC DEADEND)		
FO-STORAGE	Install		1	FO-STORAGE (FIBER OPTIC STORAGE)		
FO-DL-CLAMP	Install		3	FO-DL-CLAMP (FO DOWN LEAD CLAMP)		
FO-WARNING	Install		2	FO-WARNING (FO IN SUPPLY SPACE SIGN)		

Remarks: SECOND CALL-OUT OF ADSS IS FOR STORAGE.
INSTALL 2 OR 3 DOWN LEAD CLAMPS AS REQUIRED.

Structure: 21. POLE 6226 (NO# IN FIELD)

<u>Assembly Unit</u>	<u>Activity</u>	<u>#Cond</u>	<u>Qty</u>	<u>Unit Description</u>	Complete	Qty
#2 ACSR	Existing	1	205	#2 ACSR		
#2 ACSR NEUTRAL	Existing	1	205	#2 ACSR NEUTRAL		
#2 TPX	Existing	2	-	#2 TPX (#2 TRIPLEX, CONCH)		
40/5	Existing		1	40/5 POLE		
VA9-1	Existing		1	VA9-1 (CROSSARM TANGENT)		
J6	Existing		2	J6 (SECONDARY CLEVIS)		
M2-11	Existing		1	M2-11 (POLE GROUND)		
ADSS	Install		205	ADSS (ADSS FIBER OPTIC CABLE)		
FO-TAN	Install		1	FO-TAN (FIBER OPTIC TANGENT)		
FO-WARNING	Install		2	FO-WARNING (FO IN SUPPLY SPACE SIGN)		

Remarks:

Design: 1. HOPE JUNCTION/SIVERTIP ADSS FIBER INSTALL
ISSUED FOR CONSTRUCTION - REV 1

Project: C2230004

Structure: 22. POLE 6219

<u>Assembly Unit</u>	<u>Activity</u>	<u>#Cond</u>	<u>Qty</u>	<u>Unit Description</u>	Complete	Qty
#2 ACSR	Existing	1	196	#2 ACSR		
#2 ACSR NEUTRAL	Existing	1	196	#2 ACSR NEUTRAL		
#2 TPX	Existing	1	196	#2 TPX (#2 TRIPLEX, CONCH)		
1/0 TPX	Existing	1	-	1/0 TPX (#2 TRIPLEX, NERITINA)		
350 RIBB	Existing	1	-	350 RIBB (3 WIRE SECONDARY UG)		
40/4	Existing		1	40/4 POLE		
VA7	Existing		1	VA7 (DOUBLE CROSSARM DEADEND)		
SE1-5	Existing		1	SE1-3 (DOWN GUY)		
SF-4P	Existing		1	SF-4P (PLATE ANCHOR)		
G312X-50	Existing		1	G312-50X (TWO XFMRs ON CLUSTER BRCKT)		
SUM54	Existing		1	SUM54 (SECONDARY RISER)		
SUME490S3	Existing		1	SUME490S3 (4" RSC 90 36")		
SUM52A	Existing		1	SUM52A (ADD'L SECONDARY RISER)		
SUME290S3	Existing		1	SUME290S3 (2" RSC 90 36")		
ADSS	Install		70	ADSS (ADSS FIBER OPTIC CABLE)		
FO-DE	Install		1	FO-DE (FIBER OPTIC DEADEND)		
SE1-4	Install		1	SE1-4 (DOWN GUY)		
EXT-RSR	Install		1	EXT-RSR (EXTEND RISER)		
FO-WARNING	Install		2	FO-WARNING (FO IN SUPPLY SPACE SIGN)		

Remarks: THE EXISTING SUM52A IS A 2" RISER (LOWER 10' RGS SECTION ONLY), AND IS FOR THE FIBER INSTALLATION.
THE EXISTING SUME290S3 IS A 2" RGS CONDUIT ELBOW, 36" RADIUS, AND IS FOR THE FIBER INSTALLATION.
EXT-RSR: EXTEND THE 2" RISER.

Structure: 23. AT&T H-FRAME

<u>Assembly Unit</u>	<u>Activity</u>	<u>#Cond</u>	<u>Qty</u>	<u>Unit Description</u>	Complete	Qty
SUM5012H	Existing	1	30	SUM5012H-Conduit - ((1) 2" HDPE CONDUIT)		
FO-ENCLOSURE	Existing		1	FO ENCLOSURE (FO ENCLOSURE)		
ADSS	Install		70	ADSS (ADSS FIBER OPTIC CABLE)		
ADSS	Install		55	ADSS (ADSS FIBER OPTIC CABLE)		
HDPE1.25	Install		70	HDPE1.25 (1-1/4" ORANGE SCHDL 40 HDPE)		
FO-RISER-2	Install		1	FO-RISER (FIBER OPTIC RISER)		
FO-PIGTAIL	Install		24	FO-PIGTAIL (FO FUSION PIGTAIL, 6' LONG)		
FO-PATCH-PNL	Install		1	FO-PATCH-PNL (FIBER OPTIC PATCH PANEL)		
OTDR-TEST	Install		1	OTDR-TEST (FO OTDR TESTING)		
ATTN-TEST	Install		1	ATTN-TEST (ATTENUATION TESTING)		

Remarks: THE EXISTING FO-ENCLOSURE IS LABELED, "CHUGACH FIBER SLACK BOX" IN THE FIELD.

SECOND CALL-OUT OF ADSS IS FOR STORAGE IN ENCLOSURE.

PROVIDE 5 FULL COILS OF UN-STRIPPED CABLE IN ENCLOSURE.

TERMINATE (2) BUFFERS (24 FIBERS) OF NEW ADSS WITH 6' FUSION PIGTAILS.

OTDR-TEST: TEST ALL 24 TERMINATED FIBERS USING OPTICAL TIME DOMAIN REFLECTOMETER TO INDUSTRY STANDARDS.

ATTN-TEST: TEST ALL 24 TERMINATED FIBERS, END-TO-END, USING A NANOMETER LIGHT SOURCE ON ONE END AND AN OPTICAL METER ON THE OTHER END TO INDUSTRY STANDARDS (OTHER END IS THE MIRCOWAVE SITE).

Structure: 24. VERIZON

<u>Assembly Unit</u>	<u>Activity</u>	<u>#Cond</u>	<u>Qty</u>	<u>Unit Description</u>	Complete	Qty
COW	Existing		1	COW		
LQDTFL2	Existing		45	LQDTFL2 (2" LIQUIDTIGHT FLEX)		
FO-CABLE	Existing		255	FO CABLE (FIBER OPTIC CABLE)		
HDPE1.25	Install		245	HDPE1.25 (1-1/4" ORANGE SCHDL 40 HDPE)		

Remarks: THE EXISTING 2" LIQUIDTIGHT HAD BEEN ROUTED BETWEEN THE COW AND AN ENCLOSURE MOUNTED ON VERIZON'S METER POLE.

INSTALL INNERDUCT FROM AT&T'S H-FRAME, LAYING IT CLOSE TO THE FENCE; AND EXTENDING IT INTO THE COW THROUGH THE EXISTING 2" LIQUIDTIGHT FLEX.

COORDINATE WITH VERIZON TO EXTEND THEIR FIBER THROUGH THE INNERDUCT TO THE FO-ENCLOSURE ON THE AT&T H-FRAME.