TWIN HILLS RURAL POWER SYSTEM UPGRADE
TWIN HILLS DISTRIBUTION UPGRADE

STAKING SHEETS

ISSUED FOR CONSTRUCTION – AUGUST 2018

GRAY STASSEL ENGINEERING, INC
P.O. BOX 111405
ANCHORAGE, ALASKA 99511-1405

REV. NO.	DATE	DESCRIPTION	BY
0	1/26/18	ISSUED FOR CONSTRUCTION.	CWV

GRAY STASSEL ENGINEERING, INC.
1309 EAST KLATT ROAD, SUITE C
ANCHORAGE, ALASKA 99511
(907) 349-0100

DESIGNER	DATE
CWV	January 26, 2018
CHECKER	**DATE**
CWV	January 26, 2018
DIST. ENG.	**DATE**
CWV	January 26, 2018

TWIN HILLS RURAL POWER SYSTEM UPGRADE
TWIN HILLS DISTRIBUTION

LOCATION NUMBER	STATION	LINE ANGLE (DEG)	CONDUCTOR No.	CONDUCTOR SIZE/TYPE	CONDUCTOR Back Span	POLE HEIGHT	POLE CLASS	PRIMARY ASSEMBLY No.	PRIMARY ASSEMBLY Units	GUYS No.	GUYS Units	ANCHORS No.	ANCHORS Units	XFMRS No.	XFMRS Units	SECONDARY CONDUCTOR SERVICE No.	SECONDARY CONDUCTOR SERVICE SIZE/TYPE	SECONDARY CONDUCTOR BACKFEED Back Span	SECONDARY CONDUCTOR BACKFEED No.	SECONDARY CONDUCTOR BACKFEED SIZE/TYPE	SECONDARY SERVICE No.	SECONDARY SERVICE Units	MISCELLANEOUS CONSTRUCTION UNITS No.	MISCELLANEOUS CONSTRUCTION UNITS Units	RIGHT OF WAY	REMARKS/COMMENTS/NOTES
1			4	#2 ACSR	50	40	4	1	C1.11	1	E1.1La	1	F7.0													SEE NOTE 1.
								1	C5.21																	
0			4	#2 ACSR	20	40	4	1	C6.21					1	G3.3-75	1	#4/0				1	J3.1	1	H1.1		SEE NOTES 1, 2,6, AND 12.
								1	S1.3						277/480V		QUADRUPLEX									STEP-UP TRANSFORMER BANK.
															3-PHASE											ADDITIONAL NOTES ON DRAWING.
T92			4	#2 ACSR	20	40	4	1	S2.31														1	H1.1		SEE NOTES 1,6,AND 10.
								1	R3.3a																	ADDITIONAL NOTES ON DRAWING.
																										VACUUM SWITCH
T91			4	#2 ACSR	20	40	4	1	C1.11												1	J3.1	1	H1.1		SEE NOTES 1,4, 6, AND 11.
								1	Q4.1a																	SEE DETAILS ON PLANS.
																										METERING POLE.
																										ADDITIONAL NOTES ON DRAWING.
T90			4	#2 ACSR	175	40	4	1	C6.21												1	J3.1	1	H1.1		SEE NOTES 1, AND 6.
								1	S2.32a														1	H4.1a		SEE DETAILS ON PLANS.
																										LOAD BREAK SWITCH
																										ADDITIONAL NOTES ON DRAWING.
1-1			4	#2 ACSR	105	40	4	1	C1.11					1	G1.4-10						1	N7.6	1	H1.1		SEE NOTES 1 AND 2.
															120/240V						1	J3.1				ONE SERVICE.
															1-PHASE											
1-1-1						30	4									1	#4 TRIPLEX				1	Q2.1G	1	H1.1		SEE NOTES 1 AND 3.
																										ONE SERVICE.
1-2			4	#2 ACSR	180	40	4	1	C5.21	1	E1.1La	1	F7.0													SEE NOTE 1.
2			4	#2 ACSR	115	40	4	1	C1.11					1	G1.4-10	2	#4 TRIPLEX				1	N7.6	1	H1.1		SEE NOTES 1 AND 2.
															120/240V						2	J3.1				TWO SERVICES.
															1-PHASE											
3		5	4	#2 ACSR	140	40	4	1	C2.21	1	E1.1La	1	F7.0													SEE NOTE 1.
4			4	#2 ACSR	160	40	4	2	C5.21	2	E1.1La	2	F7.0													SEE NOTE 1.

LOCATION NUMBER	STATION	LINE ANGLE (DEG)	CONDUCTOR			POLE		PRIMARY ASSEMBLY		GUYS		ANCHORS		XFMRS		SECONDARY CONDUCTOR					SECONDARY SERVICE		MISCELLANEOUS CONSTRUCTION UNITS		RIGHT OF WAY	REMARKS/COMMENTS/NOTES
																SERVICE		BACKFEED								
			No.	SIZE/TYPE	Back Span	HEIGHT	CLASS	No.	Units	No.	Units	No.	Units	No.	Units	No.	SIZE/TYPE	Back Span	No.	SIZE/TYPE	No.	Units	No.	Units		
5		10	4	#2 ACSR	155	40	4	1	C2.21	1	E1.1La	1	F7.0													SEE NOTE 1.
6			4	#2 ACSR	160	40	4	1	C1.11	2	E1.1La	2	F7.0	1	G1.4-10 120/240V 1-PHASE						1 2	N7.6 J3.1	1	H1.1		SEE NOTES 1, 2, AND 6.
6A						40	4			1	E1.1La	1	F7.0					85	1	#1/0 TRIPLEX	2	J3.1				SEE NOTE 1.
6B						35	4			1	E1.1La	1	F7.0			1	#4 TRIPLEX	100	1	#1/0 TRIPLEX	2	J3.1				SEE NOTE 1. ONE SERVICE.
7			4	#2 ACSR	130	40	4	1	C1.11									130	1	#6 DUPLEX	2	J3.1				SEE NOTE 1.
8			4	#2 ACSR	130	40	4	1	C1.11									130	1	#6 DUPLEX	1	J3.1				SEE NOTE 1. INSTALL STREET LIGHT.
9			4	#2 ACSR	130	40	4	1 1	C5.21 C1.11														1	H1.1		SEE NOTES 1, 3, AND 6.
9-1			4	#2 ACSR	25	40	4	1 1 2 1	C6.21 S1.3 A2.021 A1.01	1	E1.1La	1	F7.0													SEE NOTES 1 AND 7. PROVIDE #2 ACSR JUMPERS.
9-2			4	#2 ACSR	115	40	4	1	C1.11																	SEE NOTE 1.
9-3			4	#2 ACSR	140	40	4	1 2	C5.21 A5.01	2	E1.1La	2	F7.0										2	N6.1a		SEE NOTE 1.
9-3-1			2	#2 ACSR	85	40	4	1	A2.1	2	E1.1La	2	F7.0	1	G1.4-10 120/240V 1-PHASE						1 2	N7.6 J3.1	1	H1.1		SEE NOTES 1, 2, AND 6.
9-3-1A						35	4			1	E1.1La	1	F7.0			1	#4 TRIPLEX	147	1	#1/0 TRIPLEX	2	J3.1				SEE NOTE 1. ONE SERVICE.
9-3-2			2	#2 ACSR	110	40	4	1	A2.1	2	E1.1La	2	F7.0			1	#4 TRIPLEX	110	1	#1/0 TRIPLEX	2	J3.1				SEE NOTE 1.
9-3-2A						35	4			1	E1.1La	1	F7.0			1	#4 TRIPLEX	97	1	#1/0 TRIPLEX	2	J3.1				SEE NOTE 1. ONE SERVICE.

LOCATION NUMBER	STATION	LINE ANGLE (DEG)	CONDUCTOR			POLE		PRIMARY ASSEMBLY		GUYS		ANCHORS		XFMRS		SECONDARY CONDUCTOR					SECONDARY SERVICE		MISCELLANEOUS CONSTRUCTION UNITS		RIGHT OF WAY	REMARKS/COMMENTS/NOTES
																SERVICE		BACKFEED								
			No.	SIZE/TYPE	Back Span	HEIGHT	CLASS	No.	Units	No.	Units	No.	Units	No.	Units	No.	SIZE/TYPE	Back Span	No.	SIZE/TYPE	No.	Units	No.	Units		
9-3-3			2	#2 ACSR	195	40	4	1	A2.1	2	E1.1La	2	F7.0			2	#4 TRIPLEX	195	1	#1/0 TRIPLEX	3	J3.1				SEE NOTES 1 AND 6. TWO SERVICES. PROVIDE #2 ACSR JUMPERS.
9-3-4		34	2	#2 ACSR	192	40	4	2	A5.1	2	E1.1La	2	F7.0	1	G1.4-15	1	#4 TRIPLEX	192	1	#1/0 TRIPLEX	3	J3.1	1	N6.1a		SEE NOTES 1 AND 2. ONE SERVICE. PROVIDE #2 ACSR JUMPERS.
								1	A1.04N						120/240V								1	H1.1		
															1-PHASE											
9-3-5			2	#2 ACSR	90	40	4	1	A2.1									90	1	#1/0 TRIPLEX	2	J3.1				SEE NOTE 1.
9-3-6		5	2	#2 ACSR	170	40	4	1	A2.3	2	E1.1La	2	F7.0					170	1	#1/0 TRIPLEX	2	J3.1				SEE NOTES 1 AND 2. PROVIDE #2 ACSR JUMPERS.
9-3-6A						35	4			1	E1.1La	1	F7.0			1	#4 TRIPLEX	85	1	#1/0 TRIPLEX	1	J3.1				SEE NOTE 1. ONE SERVICE.
9-3-7		7	2	#2 ACSR	220	40	4	2	A5.1	1	E1.1La	1	F7.0										1	H1.1		SEE NOTES 1 AND 6.
								1	S1.1																	
9-3-8			2	#2 ACSR	200	40	4	1	A2.1																	SEE NOTE 1.
9-3-9			2	#2 ACSR	160	40	4	1	A2.1																	SEE NOTE 1.
9-3-10			2	#2 ACSR	200	40	4	1	A2.1																	SEE NOTE 1.
9-3-11			2	#2 ACSR	200	40	4	1	A2.1																	SEE NOTE 1.
9-3-12			2	#2 ACSR	180	40	4	2	A5.1	2	E1.1La	2	F7.0										1	H1.1		SEE NOTES 1 AND 6.
9-3-13			2	#2 ACSR	215	40	4	1	A2.1																	SEE NOTE 1.
9-3-14			2	#2 ACSR	215	40	4	2	A5.1	2	E1.1La	2	F7.0													SEE NOTE 1.
9-3-15			2	#2 ACSR	275	40	4	2	A5.1																	SEE NOTE 1. PROVIDE #2 ACSR JUMPERS.

LOCATION NUMBER	STATION	LINE ANGLE (DEG)	CONDUCTOR			POLE		PRIMARY ASSEMBLY		GUYS		ANCHORS		XFMRS		SECONDARY CONDUCTOR					SECONDARY SERVICE		MISCELLANEOUS CONSTRUCTION UNITS		RIGHT OF WAY	REMARKS/COMMENTS/NOTES
																SERVICE			BACKFEED							
			No.	SIZE/TYPE	Back Span	HEIGHT	CLASS	No.	Units	No.	Units	No.	Units	No.	Units	No.	SIZE/TYPE	Back Span	No.	SIZE/TYPE	No.	Units	No.	Units		
9-3-16			2	#2 ACSR	275	40	4	1	A2.1														1	H1.1		SEE NOTES 1 AND 6.
9-3-17			2	#2 ACSR	275	40	4	1	A2.1																	SEE NOTE 1.
9-3-18			2	#2 ACSR	275	40	4	1	A2.1																	SEE NOTE 1.
9-3-19			2	#2 ACSR	245	40	4	1	A2.1	1	E1.1La	1	F7.0	1	G1.4-10 120/240V 1-PHASE						1 1	N7.6 J3.1	1	H1.1		SEE NOTES 1, 2, AND 6.
9-3-19A						35	4			1	E1.1La	1	F7.0			1	#4 TRIPLEX	120	1	#2 TRIPLEX	2	J3.1				SEE NOTE 1.
9-3-20			2	#2 ACSR	275	40	4	1	A2.1																	SEE NOTE 1.
9-3-21		3	2	#2 ACSR	240	40	4	1	A2.3P	1	E1.1La	1	F7.0													SEE NOTE 1.
9-3-22		13	2	#2 ACSR	240	40	4	1	A2.3P	1	E1.1La	1	F7.0													SEE NOTE 1.
9-3-23		7	2	#2 ACSR	165	40	4	1	A2.3P	1	E1.1La	1	F7.0													SEE NOTE 1.
9-3-24			2	#2 ACSR	277	40	4	1	A2.1														1	H1.1		SEE NOTES 1 AND 6.
9-3-25			2	#2 ACSR	275	40	4	1	A2.1																	SEE NOTE 1.
9-3-26			2	#2 ACSR	275	40	4	1	A2.1																	SEE NOTE 1.
9-3-27			2	#2 ACSR	275	40	4	1	A2.1																	SEE NOTE 1.
9-3-28			2	#2 ACSR	275	40	4	1	A2.1														1	H1.1		SEE NOTES 1 AND 6.

LOCATION NUMBER	STATION	LINE ANGLE (DEG)	CONDUCTOR			POLE		PRIMARY ASSEMBLY		GUYS		ANCHORS		XFMRS		SECONDARY CONDUCTOR					SECONDARY SERVICE		MISCELLANEOUS CONSTRUCTION UNITS		RIGHT OF WAY	REMARKS/COMMENTS/NOTES
																SERVICE		BACKFEED								
			No.	SIZE/TYPE	Back Span	HEIGHT	CLASS	No.	Units	No.	Units	No.	Units	No.	Units	No.	SIZE/TYPE	Back Span	No.	SIZE/TYPE	No.	Units	No.	Units		
9-3-29			2	#2 ACSR	240	40	4	2	A5.1	2	E1.1La	2	F7.0										1	H1.1		SEE NOTES 1 AND 6.
9-3-30		11	2	#2 ACSR	155	40	4	1	A2.1																	SEE NOTE 1.
9-3-31			2	#2 ACSR	140	40	4	1	A5.1	1	E1.1La	1	F7.0	1	G1.5-10	1	#4 TRIPLEX				1	N7.6	1	H1.1		SEE NOTES 1, 2, AND 6.
															120/240V						1	J3.1				
															1-PHASE											
9-4			2	#2 ACSR	180	40	4	1	A2.1																	SEE NOTE 1.
9-5			2	#2 ACSR	115	40	4	1	A2.1																	SEE NOTE 1.
9-6		19	2	#2 ACSR	145	40	4	1	A3.1	1	E1.1La	1	F7.0								1	N5.2				SEE NOTE 1. PROVIDE #2 ACSR JUMPERS.
9-7			2	#2 ACSR	130	40	4	1	A5.1	1	E1.1La	1	F7.0	1	G1.5-10	1	#4 TRIPLEX				1	N7.6	1	H1.1		SEE NOTES 1, 2 AND 6.
															120/240V						1	K3.1				NEW OVERHEAD SERVICE.
															1-PHASE											
10			4	#2 ACSR	160	40	4	1	C1.11																	SEE NOTE 1.
11			4	#2 ACSR	160	40	4	1	C1.11	1	E1.1La	1	F7.0					130	1	#6 DUPLEX	1	J3.1				SEE NOTE 1.
								1	C5.21																	INSTALL STREET LIGHT.
11-1			4	#2 ACSR	130	40	4	1	C5.21	1	E1.1La	1	F7.0	1	G1.4-37.5	1	#1/0 TRIPLEX				1	N7.6	1	H1.1		SEE NOTES 1, 2 AND 6.
															120/240V						2	J3.1				SCHOOL SINGLE-PHASE SERVICE.
															1-PHASE											
12			4	#2 ACSR	40	40	4	2	C5.21	2	E1.1La	2	F7.0													SEE NOTE 1.
13			4	#2 ACSR	190	40	4	1	C1.11	1	E1.1La	1	F7.0	1	G1.4-15						1	N7.6	1	H1.1		SEE NOTES 1, 2, AND 6.
															120/240V						2	J3.1				
															1-PHASE											
13-1						35	4			1	E1.1La	1	F7.0			1	#4 TRIPLEX	85	1	#2 TRIPLEX	2	J3.1				SEE NOTE 1. ONE SERVICE. INSTALL STREET LIGHT.
14			4	#2 ACSR	76	40	4	1	C1.11	1	E1.1La	1	F7.0			2	#4 TRIPLEX	76	1	#1/0 TRIPLEX	3	J3.1				SEE NOTE 1. ONE SERVICE. INSTALL STREET LIGHT.

LOCATION NUMBER	STATION	LINE ANGLE (DEG)	CONDUCTOR			POLE		PRIMARY ASSEMBLY		GUYS		ANCHORS		XFMRS		SECONDARY CONDUCTOR					SECONDARY SERVICE		MISCELLANEOUS CONSTRUCTION UNITS		RIGHT OF WAY	REMARKS/COMMENTS/NOTES
																SERVICE		BACKFEED								
			No.	SIZE/TYPE	Back Span	HEIGHT	CLASS	No.	Units	No.	Units	No.	Units	No.	Units	No.	SIZE/TYPE	Back Span	No.	SIZE/TYPE	No.	Units	No.	Units		
14-1						40	4									1	#4 TRIPLEX	45	1	#2 TRIPLEX	2	J3.1				SEE NOTE 1. ONE SERVICE.
15			4	#2 ACSR	65	40	4	1	C6.21																	SEE NOTE 1. INSTALL STREET LIGHT UNIT C6.21 ON TOP INSTALL #2 JUMPERS.
								1	C1.11																	
								1	A1.01																	
								2	A2.021																	
15A-1			4	#2 ACSR	160	40	4	1	C1.11	1	E1.1La	1	F7.0								3	J3.1				SEE NOTE 1. ONE SERVICE. INSTALL STREET LIGHT.
15A-1A						40	4			1	E1.1La	1	F7.0			1	#4 TRIPLEX	105	1	#1/0 TRIPLEX	2	J3.1				SEE NOTE 1. ONE SERVICE.
15A-2			4	#2 ACSR	80	40	4	1	C1.11					1	G1.4-10 120/240V 1-PHASE			80	1	#1/0 TRIPLEX	1 3	N7.6 J3.1	1	H1.1		SEE NOTES 1, 2, AND 6.
15A-2A						35	4									1	#4 TRIPLEX	70	1	#2 TRIPLEX	2	J3.1				SEE NOTE 1. ONE SERVICE.
15A-3			4	#2 ACSR	75	40	4	1	C1.11							2	#4 TRIPLEX	75	1	#1/0 TRIPLEX	2	J3.1				SEE NOTE 1. TWO SERVICES.
15A-4			4	#2 ACSR	135	40	4	1	C1.11					1	G1.4-10 120/240V 1-PHASE	2	#4 TRIPLEX				1 3	N7.6 J3.1	1	H1.1		SEE NOTES 1, 2, AND 6. TWO SERVICES. INSTALL STREET LIGHT.
15A-4A						35	4									3	#4 TRIPLEX		1	#1/0 TRIPLEX	4	J3.1				SEE NOTE 1. THREE SERVICES.
15A-5			4	#2 ACSR	120	40	4	1	C5.21	2	E7.1	2	F7.0	1	G1.4-10 120/240V 1-PHASE						1	N7.6	1	H1.1		SEE NOTES 1, 2 AND 6. INSTALL STREET LIGHT.
								1	A5.01																	
15A-5A						40	4			1	E1.1La	1	F7.0			1	#4 TRIPLEX	80	1	#2 TRIPLEX	2 1	J3.1				SEE NOTE 1. ONE SERVICE.
15A-6			4	#2 ACSR	50	40	4	1	C5.21	1	E1.1La	1	F7.0					50	1	#1/0 TRIPLEX	2	J3.1				SEE NOTE 1.
15A-6A						35	4									2	#4 TRIPLEX	80	1	#2 TRIPLEX	4	J3.1				SEE NOTE 1. TWO SERVICES. INSTALL STREET LIGHT.
15B-1			4	#2 ACSR	170	40	4	1	C1.11					1	G1.4-15 120/240V 1-PHASE	1	#2 TRIPLEX				1 3	N7.6 J3.1	1	H1.1		SEE NOTES 1, 2 AND 6. INSTALL STREET LIGHT

LOCATION NUMBER	STATION	LINE ANGLE (DEG)	CONDUCTOR			POLE		PRIMARY ASSEMBLY		GUYS		ANCHORS		XFMRS		SECONDARY CONDUCTOR					SECONDARY SERVICE		MISCELLANEOUS CONSTRUCTION UNITS		RIGHT OF WAY	REMARKS/COMMENTS/NOTES
																SERVICE		BACKFEED								
			No.	SIZE/TYPE	Back Span	HEIGHT	CLASS	No.	Units	No.	Units	No.	Units	No.	Units	No.	SIZE/TYPE	Back Span	No.	SIZE/TYPE	No.	Units	No.	Units		
15B-1A						35	4									2	#4 TRIPLEX	120	1	#2 TRIPLEX	2	J3.1				SEE NOTE 1. TWO SERVICES.
15B-2			4	#2 ACSR	65	40	4	1	C1.11									140	1	#1/0 TRIPLEX	2	J3.1				SEE NOTE 1.
15B-2A						35	4			1	E1.1La	1	F7.0			1	#4 TRIPLEX	110	1	#2 TRIPLEX	2	J3.1				SEE NOTE 1. ONE SERVICE.
15B-3			4	#2 ACSR	85	40	4	1	C1.11																	SEE NOTE 1.
15B-4			4	#2 ACSR	85	40	4	1	C1.11																	SEE NOTE 1.
15B-5			4	#2 ACSR	95	40	4	1	C1.11	1	E1.1La	1	F7.0	1	G1.4-10 120/240V 1-PHASE						1 2	N7.6 J3.1	1	H1.1		SEE NOTES 1, 2, AND 6.
15B-5A						35	4			1	E1.1La	1	F7.0			1	#4 TRIPLEX	115	1	#1/0 TRIPLEX	2	J3.1				SEE NOTE 1. ONE SERVICE.
15B-5B						35	4			1	E1.4L	1	F7.0													SEE NOTE 1.
15B-6			4	#2 ACSR	95	40	4	1	C5.21	1	E1.1La	1	F7.0			1	#4 TRIPLEX	95	1	#1/0 TRIPLEX	2	J3.1				SEE NOTE 1. ONE SERVICE.
16			4	#2 ACSR	30	40	3	1	C1.11					1	G1.4-100 120/240V 1-PHASE	2	#4/0 TRIPLEX				1 1	N7.6 J3.1	1	H1.1		SEE NOTES 1, 2, 6, 8, AND 9. TEMPORARY STEP UP TRANSFORMER.
17			4	#2 ACSR	90	40	4	1	C1.11	1	E1.1La	1	F7.0	1	G1.4-10 120/240V 1-PHASE	1	#4 TRIPLEX				1 3	N7.6 J3.1	1	H1.1		SEE NOTES 1, 2, AND 6. ONE SERVICE.
17A						40	4									2	#4 TRIPLEX	90	2	#2 TRIPLEX	2	J3.1				SEE NOTE 1. TWO SERVICES.
17B						35	4									2	#4 TRIPLEX	90	1	#2 TRIPLEX	2	J3.1				SEE NOTE 1. ONE SERVICE.
18			4	#2 ACSR	100	40	4	1	C1.11							1	#4 TRIPLEX	100	1	#1/0 TRIPLEX	3	J3.1				SEE NOTE 1. ONE SERVICE.

LOCATION NUMBER	STATION	LINE ANGLE (DEG)	CONDUCTOR			POLE		PRIMARY ASSEMBLY		GUYS		ANCHORS		XFMRS		SECONDARY CONDUCTOR					SECONDARY SERVICE		MISCELLANEOUS CONSTRUCTION UNITS		RIGHT OF WAY	REMARKS/COMMENTS/NOTES
																SERVICE		BACKFEED								
			No.	SIZE/TYPE	Back Span	HEIGHT	CLASS	No.	Units	No.	Units	No.	Units	No.	Units	No.	SIZE/TYPE	Back Span	No.	SIZE/TYPE	No.	Units	No.	Units		
19		3	4	#2 ACSR	95	40	4	1	C5.21	1	E1.1La	1	F7.0					95	1	#1/0 TRIPLEX	2	J3.1				SEE NOTE 1.
								1	C6.21																	INSTALL STREET LIGHT.
								2	A2.021																	
								1	A1.01																	
19-1			4	#2 ACSR	160	40	4	1	C1.11	1	E1.1La	1	F7.0			1	#4 TRIPLEX				1	N7.6				SEE NOTES 1, 2, AND 6.
																					3	J3.1				ONE SERVICE.
19-2			4	#2 ACSR	125	40	4	1	C1.11	1	E7.1	1	F7.0	1	G1.4-10			125	1	#1/0 TRIPLEX	1	N7.6	1	H1.1		SEE NOTES 1, 2, AND 6.
															120/240V						3	J3.1				
															1-PHASE											
19-2A						40	4									2	#4 TRIPLEX	90	1	#2 TRIPLEX	2	J3.1				SEE NOTE 1.
																										TWO SERVICES.
19-3			4	#2 ACSR	125	40	4	1	C5.21	1	E1.1La	1	F7.0			2	#4 TRIPLEX	125	1	#1/0 TRIPLEX	2	J3.1	1	H1.1		SEE NOTES 1 AND 2.
																										TWO SERVICES.
20			4	#2 ACSR	110	40	4	1	C1.11																	SEE NOTE 1.
21			4	#2 ACSR	110	40	4	1	C1.11	1	E7.1	1	F7.0	1	G1.4-10	1	#4 TRIPLEX				1	N7.6	1	H1.1		SEE NOTES 1, 2, AND 6.
															120/240V						2	J3.1				INSTALL STREET LIGHT.
															1-PHASE											ONE SERVICE.
21A						40	4			1	E1.1La	1	F7.0			1	#4 TRIPLEX	135	1	#2 TRIPLEX	2	J3.1				SEE NOTE 1.
22			4	#2 ACSR	125	40	4	1	C1.11																	SEE NOTES 1.
23			4	#2 ACSR	100	40	4	1	C1.11	1	E1.1La	1	F7.0			1	#4 TRIPLEX				2	J3.1				SEE NOTE 1.
																										ONE SERVICE.
																										INSTALL STREET LIGHT.
24		19	4	#2 ACSR	100	40	4	1	C2.21	1	E7.1	1	F7.0					100	1	#1/0 TRIPLEX	2	J3.1				SEE NOTE 1.
25			4	#2 ACSR	80	40	4	1	C5.21					1	G1.5-10	2	#4 TRIPLEX	100	1	#1/0 TRIPLEX	1	N7.6	1	H1.1		SEE NOTES 1, 2, AND 6.
															120/240V						4	J3.1				TWO SERVICES.
															1-PHASE											
25A						40	4									1	#4 TRIPLEX	80	1	#2 TRIPLEX	1	J3.1				SEE NOTE 1.

LOCATION NUMBER	STATION	LINE ANGLE (DEG)	CONDUCTOR			POLE		PRIMARY ASSEMBLY		GUYS		ANCHORS		XFMRS		SECONDARY CONDUCTOR					SECONDARY SERVICE		MISCELLANEOUS CONSTRUCTION UNITS		RIGHT OF WAY	REMARKS/COMMENTS/NOTES
																SERVICE		BACKFEED								
			No.	SIZE/TYPE	Back Span	HEIGHT	CLASS	No.	Units	No.	Units	No.	Units	No.	Units	No.	SIZE/TYPE	Back Span	No.	SIZE/TYPE	No.	Units	No.	Units		

STAKING SHEET NOTES:

1. SEE PROJECT DETAIL DRAWINGS FOR MODIFIED RUS CONSTRUCTION UNITS. UNLESS OTHERWISE INDICATED, GUY LEADS SHALL BE 30 FEET.
2. ON THE RUS CONSTRUCTION UNIT G1.2 AND G1.3 AN ARMOR ROD IS INDICATED AT THE CONNECTION TO THE LINE WITH A HOT LINE CLAMP. DO NOT INSTALL SURGE ARRESTERS ON TRANSFORMERS.
3. POSITION POLE SUCH THAT THE EXISTING TANK FARM FEEDER CAN EXTEND UP TO THE NEW METER WITHOUT SPLICING. EXTEND THE FEEDER UP TO THE NEW METER USING GALVANIZED RIDGID CONDUIT. MATCH EXISTING CONDUIT SIZE.
4. INSTALL BILL OF MATERIAL ITEM 2, GREEN LIGHT, TO INDICATE POWER AVAILABLE FROM TOGIAK. INSTALL 1'-0" BELOW THE NEUTRAL CONDUCTOR. CONNECT THE LIGHT TO THE 120 VOLT FROM A-PHASE POTENTIAL TRANSFORMER.
5. REPLACE THE EXISTING METER BASE AND METER AS INDICATED ON THE DRAWINGS.
6. RUS ASSEMBLY H1.1 SHALL USE #4 AWG COPPER FOR POLE GROUND CONDUCTOR. ALUMINUM CONDUCTORS SHALL NOT BE USED.
7. INSTALL 25T FUSE LINK IN CUTOUTS FOR TAP.
8. INSTALL NEW SERVICE DROP FROM TRANSFORMER TO EXISTING SERVICE RISER AT POWER PLANT.
9. INSTALL JUMPERS BETWEEN THE THREE PRIMARY PHASES TO CREATE A SINGLE-PHASE SYSTEM THROUGHOUT THE COMMUNITY. JUMPERS ARE TO BE REMOVED WHEN THE THREE-PHASE TIE IS COMPLETED AND THE COMMUNITY POWERED AT THREE-PHASE. INSTALL #2 AWG JUMPERS WITH HOT LINE CLAMPS AND ARMOR ROD.
10. INSTALL MULTI-CONDUCTOR CABLE FOR VACUUM SWITCH CONTROL TO MODULE.
11. INSTALL 4/C#10 AWG MULTI-CONDUCTOR CABLE FOR THE CURRENT TRANSFORMER LEADS AND 4/C #12 AWG FOR THE POTENTIAL TRANSFORMER LEADS TO THE MODULE.
12. PROVIDE SOLID BLADE CUTOUTS FOR RUS UNIT S1.3. CONNECT FUSED CUTOUTS SUCH THAT THE LOAD SIDE IS TWIN HILLS DISTRIBUTION SYSTEM.