

STATE OF ALASKA
DEPARTMENT OF TRANSPORTATION
&
PUBLIC FACILITIES

PRELIMINARY

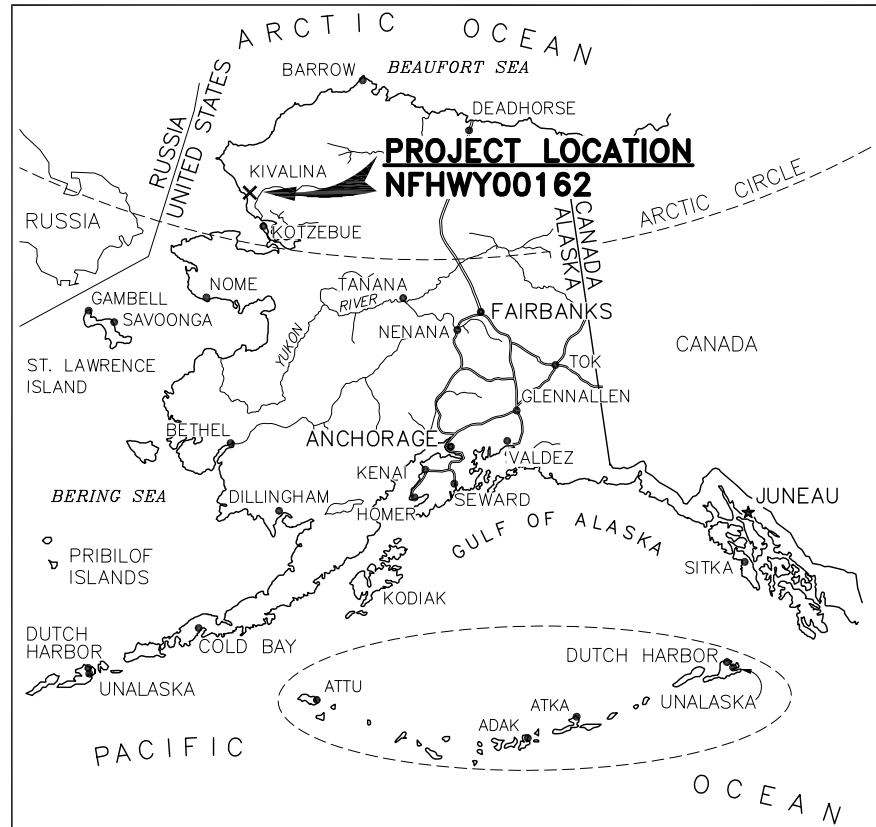
RIGHT-OF-WAY SURVEYOR'S CERTIFICATE

I CERTIFY THAT I AM PROPERLY REGISTERED AND LICENSED TO PRACTICE LAND SURVEYING IN THE STATE OF ALASKA, THAT THIS PLAT REPRESENTS A SURVEY MADE BY ME OR UNDER MY DIRECT SUPERVISION, THAT THE MONUMENTS SHOWN HEREON EXIST AS DESCRIBED, AND THAT ALL DIMENSIONS AND OTHER DETAILS ARE CORRECT.



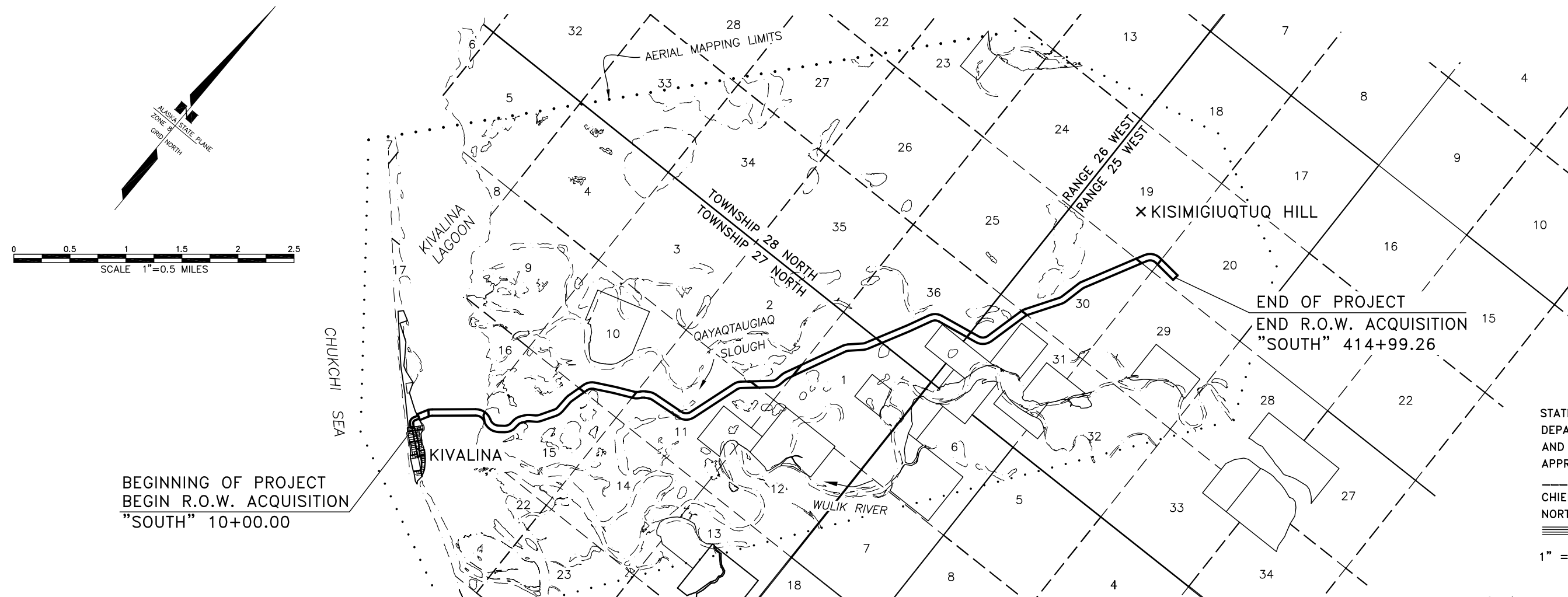
BRIAN R. MEYERS LS-13008 DATE

R&M CONSULTANTS, INC.
CERT. OF AUTHORIZATION AECC 111
9101 VANGUARD DRIVE
ANCHORAGE, ALASKA 99507
(907) 522-1707



RIGHT OF WAY MAP
0002384/NFHWHY00162
KIVALINA EVACUATION AND
SCHOOL SITE ACCESS ROAD

WITHIN SECS. 1, 2, 10, 11, 15, & 21, T. 27 N., R. 26 W., &
SEC. 36, T. 28 N., R. 26 W., & SECS. 19, 20, 30, & 31, T. 28 N., R. 25 W.,
KATEEL RIVER MERIDIAN, ALASKA
KOTZEBUE RECORDING DISTRICT
STATE BUSINESS, NO CHARGE FOR RECORDING



BEGINNING OF PROJECT
BEGIN R.O.W. ACQUISITION
"SOUTH" 10+00.00

END OF PROJECT
END R.O.W. ACQUISITION
"SOUTH" 414+99.26

STATE OF ALASKA
DEPARTMENT OF TRANSPORTATION
AND PUBLIC FACILITIES
APPROVED _____

CHIEF, RIGHT OF WAY
NORTHERN REGION

1" = 0.5 MILES

LENGTH OF PROJECT: 7.67 MILES

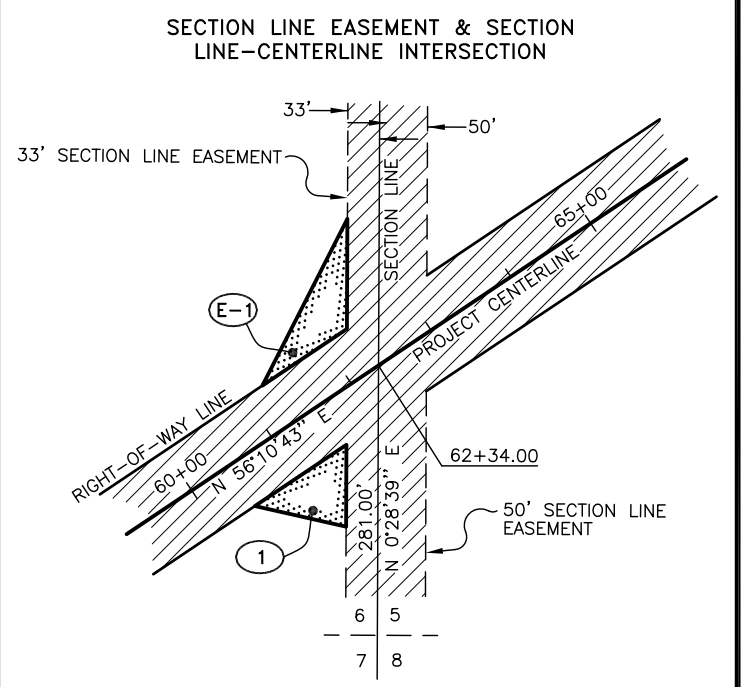
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	RECOVERED	SET
BLM MONUMENT	⊗	
GLO MONUMENT	⊗	
NGS MONUMENT	⊗	
PRIMARY MONUMENT	⊗	⊗
CENTERLINE MONUMENT IN CASING	⊕	⊕
PRIMARY R.O.W. MONUMENT	⊕	⊕
BEARING OBJECT	⊗	
MISCELLANEOUS MONUMENT	⊗	
LINE OF SIGHT MONUMENT	⊕	
CONCRETE R.O.W. MONUMENT	■	
SURVEY PANEL POINT	⊗	
REBAR AND CAP	⊕	⊕
REBAR	⊕	⊕
IRON PIPE	⊕	⊕
PK NAIL	▽	
SPIKE	✕	
HUB AND TACK	⊕	
SECTION LINE	---	---
1/4 SECTION LINE	---	---
1/16 SECTION LINE	---	---
SURVEY CONTROL LINE	---	---
TOWNSHIP & RANGE LINE	T. 2 N. T. 1 N.	T. 2 E. T. 1 E.
PROJECT LIMITS EXISTING RIGHT-OF-WAY	---	---
NEW RIGHT-OF-WAY LINE	---	---
EXISTING RIGHT-OF-WAY LINE	---	---
EXISTING PROPERTY LINE	---	---
ACCESS CONTROL LINE	---	---
EXISTING UTILITY EASEMENT LINE	---	---
PROPOSED UTILITY EASEMENT LINE	---	---
PROPOSED CUT SLOPE LIMIT	---	---
PROPOSED FILL SLOPE LIMIT	---	---

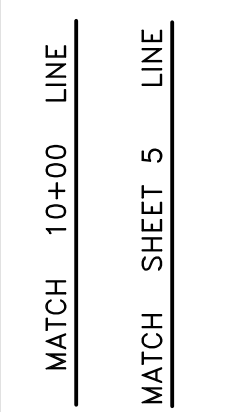
HWY MILEPOST	1 100+00.00
EXISTING RIGHT-OF-WAY	[Hatched Box]
RIGHT-OF-WAY REQUIRED	[Dotted Box]
STATION EQUATION	"L"48+97.23 POT BK= "O"48+97.23 PC AHD
DESIGN/CONSTRUCTION CENTERLINE	5+00
EXISTING CENTERLINE	10+00
EXISTING RAILROAD CENTERLINE	[Cross-ticks]
EXISTING GUARD RAIL	[Dotted Line]
EXISTING ROADWAY	[Dashed Line]
WATER BOUNDARY	[Wavy Line]
WETLANDS OR MARSH	[Shaded Area]
OHW LINE	[Dashed Line]
FLOW CENTERLINE	[Wavy Line]
FLOW DIRECTION	[Arrow]
MEANDER LINE	M1 M2 M3
EASEMENT ACQUISITION	(E-1)
FEE ACQUISITION	(1)
EXISTING SANITARY SEWER LINE	SS
EXISTING FUEL LINE	O
EXISTING GAS LINE	G
EXISTING WATER LINE	W
EXISTING STORM DRAIN LINE	SD
EXISTING FIBER OPTIC LINE	FO
EXISTING BURIED TELEPHONE CABLE	T
EXISTING BURIED ELECTRIC LINE	E
EXISTING OVERHEAD ELECTRIC LINE	---
EXISTING VEGETATION	[Wavy Line]
PROPERTY TIE	Σ
EXISTING FENCE	---X---X---X---X---

EXISTING RISER	○
EXISTING CATCH BASIN OR DROP INLET	▢
EXISTING MANHOLE	⊗ MH
EXISTING FIRE HYDRANT	⊕
EXISTING CULVERT PIPE	=====
EXISTING POWER POLE	---□---
EXISTING SIGNAL POLE W/ MAST ARM	○---
EXISTING LUMINAIRE	⊗
EXISTING POLE GUY ANCHOR	ε---
EXISTING POLE STUB TELEPHONE	⊗
EXISTING POLE STUB POWERLINE	⊗
EXISTING TELEPHONE PEDESTAL	⊕
EXISTING JOINT USE POWER & TELEPHONE	---□---
EXISTING TELEPHONE POLE LINE	○---
EXISTING SIGNAL POST W/O MAST ARM	○
EXISTING MAILBOX	⊕ MB
EXISTING GRAVE	+
EXISTING VEHICLE PLUG-IN OR HEADBOLT HEATER	⊕
EXISTING BURIED CABLE MARKER	⊕
EXISTING WATER METER	⊕
EXISTING WATER VALVE	⊕
EXISTING PIPELINE VALVE	⊕
EXISTING PIPELINE MARKER	⊕
EXISTING PARKING METER	⊕
EXISTING BUILDINGS	[Hatched Box]
EXISTING SECTION LINE OR ACCESS EASEMENT	---

EXISTING SIGN 1, 2, AND 3 POST	⊕
EXISTING POST OR BOLLARD	●
EXISTING SANITARY CLEAN OUT	⊗
EXISTING SEPTIC VENT	⊕
EXISTING WELL OR MONITORING WELL	⊕
EXISTING FUEL TANK FILL PIPE/VENT	⊕
EXISTING SATELLITE DISH	⊕ SAT. DISH
TEST HOLE	⊕
CONIFER TREE	⊗
DECIDUOUS TREE	⊗

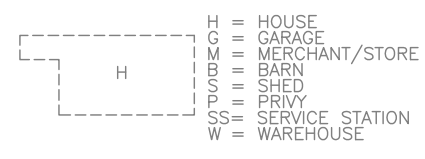


PLAN SHEET MATCH LINES

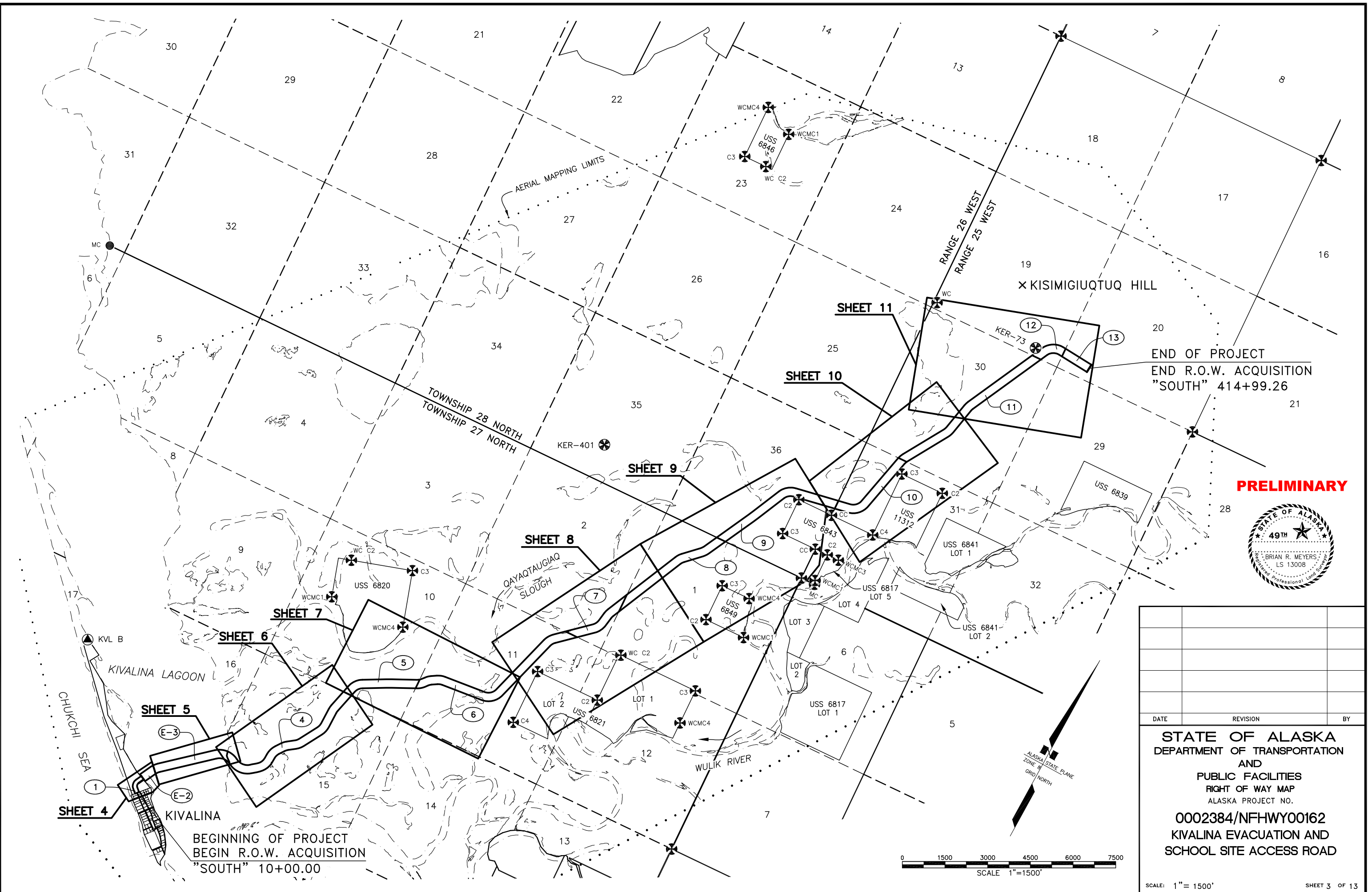


DATE	REVISION	BY

STATE OF ALASKA
DEPARTMENT OF TRANSPORTATION
AND
PUBLIC FACILITIES
RIGHT OF WAY MAP
 ALASKA PROJECT NO.
0002384/NFHWHY00162
KIVALINA EVACUATION AND
SCHOOL SITE ACCESS ROAD
 SCALE: 1" = NA SHEET 2 OF 13



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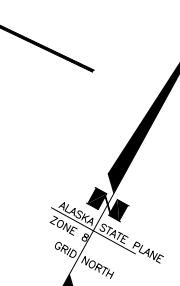
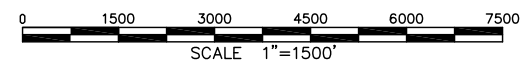
END OF PROJECT
 END R.O.W. ACQUISITION
 "SOUTH" 414+99.26

PRELIMINARY



DATE REVISION BY

STATE OF ALASKA
 DEPARTMENT OF TRANSPORTATION
 AND
 PUBLIC FACILITIES
 RIGHT OF WAY MAP
 ALASKA PROJECT NO.
 0002384/NFHWY00162
 KIVALINA EVACUATION AND
 SCHOOL SITE ACCESS ROAD



NOTE:
THE KIVALINA AIRPORT LEASE LOT SHOWN HEREON ARE CONSIDERED APPROXIMATE. FOR MORE INFORMATION OF THE LEASE LOT, CONTACT DEPARTMENT OF TRANSPORTATION - NORTHERN REGION, AVIATION LEASING DEPARTMENT.

KIVALINA AIRPORT
TRACT I
STATE OF ALASKA
PATENT 1231546

KIVALINA AIRPORT
TRACT IV
DOT&PF
BOOK 29, PAGE 441 (ILMA SURFACE)
ADL 412110

CHUKCHI SEA

KIVALINA AIRPORT
TRACT V
DOT&PF
BOOK 29, PAGE 441 (SURFACE ILMA)
ADL 412110

USS 3776
LOT 1

KIVALINA AIRPORT
LEASE LOT 1
BLOCK 1
SREB

KVL C

KACE-2

"SOUTH" 13+33.09 PI
Δ = 75°35'58"
D = 28'38'52"
T = 155.13'
L = 263.89'
R = 200.00'

KIVALINA LAGOON

"SOUTH" 22+29.80 PI
Δ = 21°55'03"
D = 9'32'57"
T = 116.18'
L = 229.52'
R = 600.00'

KIVALINA AIRPORT
TRACT I
STATE OF ALASKA
PATENT 1231546

KIVALINA AIRPORT
TRACT IV
DOT&PF
BOOK 29, PAGE 441 (SURFACE ILMA)
ADL 412110

BEGIN ROW ACQUISITION
"SOUTH" BOP 10+00.00

KIVALINA

TOWNSITE

USS 5582



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ROW CURVE DATA					
C#	DELTA	RADIUS	ARC LENGTH	TANGENT	CHORD BEARING
C1	75°35'58"	275.00'	362.85'	213.31'	N 10°01'05" W
C2	75°35'58"	125.00'	164.93'	96.96'	N 10°01'05" W
C3	1°18'20"	450.00'	10.25'	5.13'	N 28°26'04" E
C4	8°03'53"	750.00'	105.57'	52.87'	N 31°48'50" E

MEANDER LINE DATA		
M#	BEARING	DISTANCE
M1	S 72°52'47" E	76.32'
M2	S 64°31'39" E	75.06'
M3	S 58°58'19" E	75.12'
M4	S 62°19'14" E	75.00'

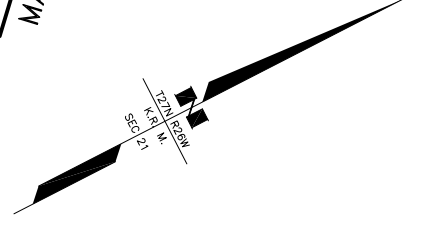
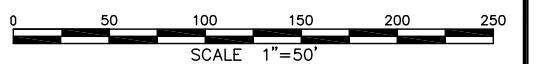
PARCEL NUMBER	INTEREST TO BE ACQUIRED	OWNER(S)	LARGER PARCEL	ACQUISITION INCL. EXISTING EASEMENTS	NET ACQUISITION	REMAINDER
E-2	SEE NOTE 7B	STATE OF ALASKA, DNR	LARGE	3.455 ACRES	3.455 ACRES	LARGE
1	SEE NOTE 7A	STATE OF ALASKA, DOT	LARGE	2.316 ACRES	2.316 ACRES	LARGE

DATE _____ REVISION _____ BY _____

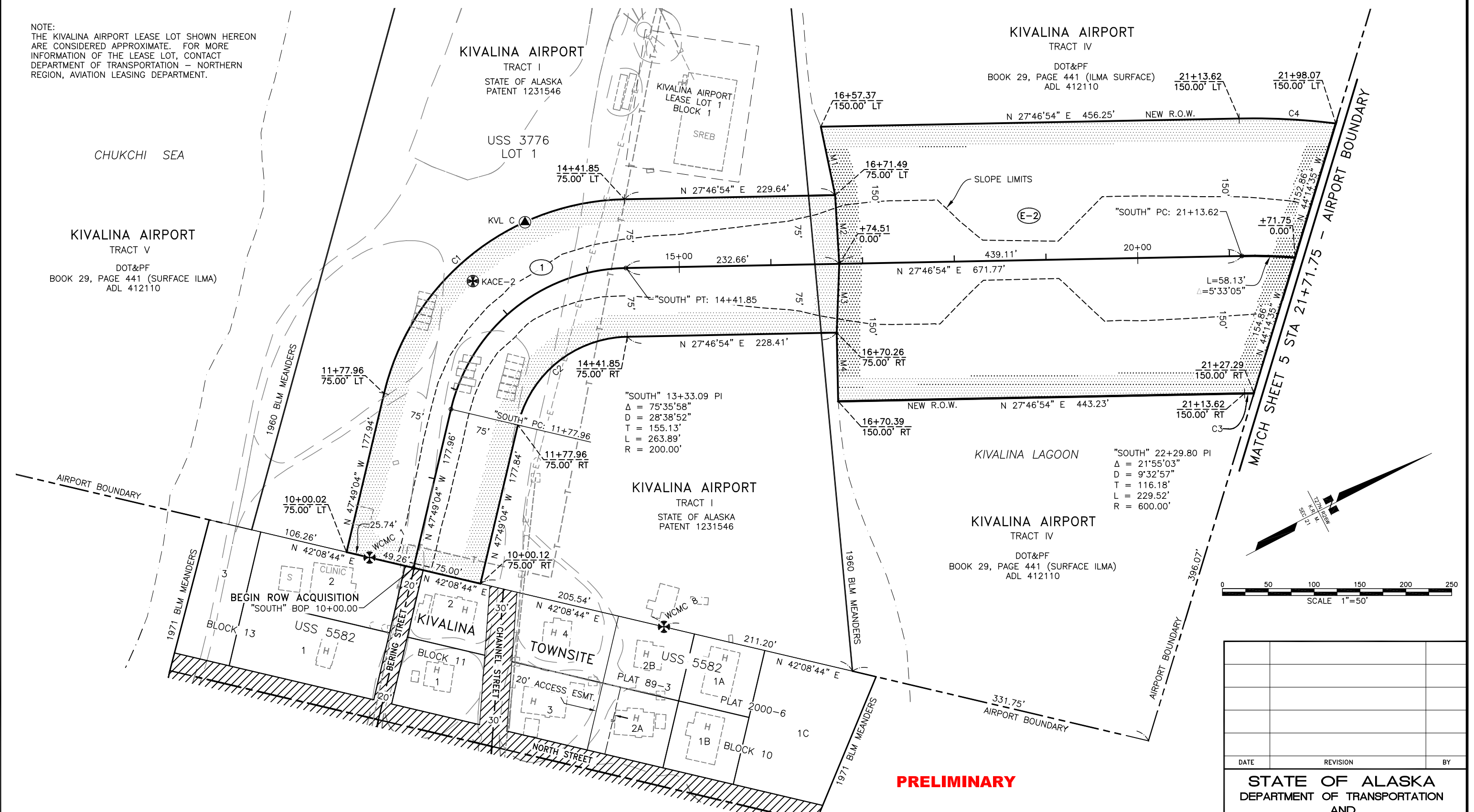
STATE OF ALASKA
DEPARTMENT OF TRANSPORTATION
AND
PUBLIC FACILITIES
RIGHT OF WAY MAP
ALASKA PROJECT NO.
0002384/NFHWY00162
**KIVALINA EVACUATION AND
SCHOOL SITE ACCESS ROAD**

SCALE: 1" = 50'

SHEET 4 OF 13

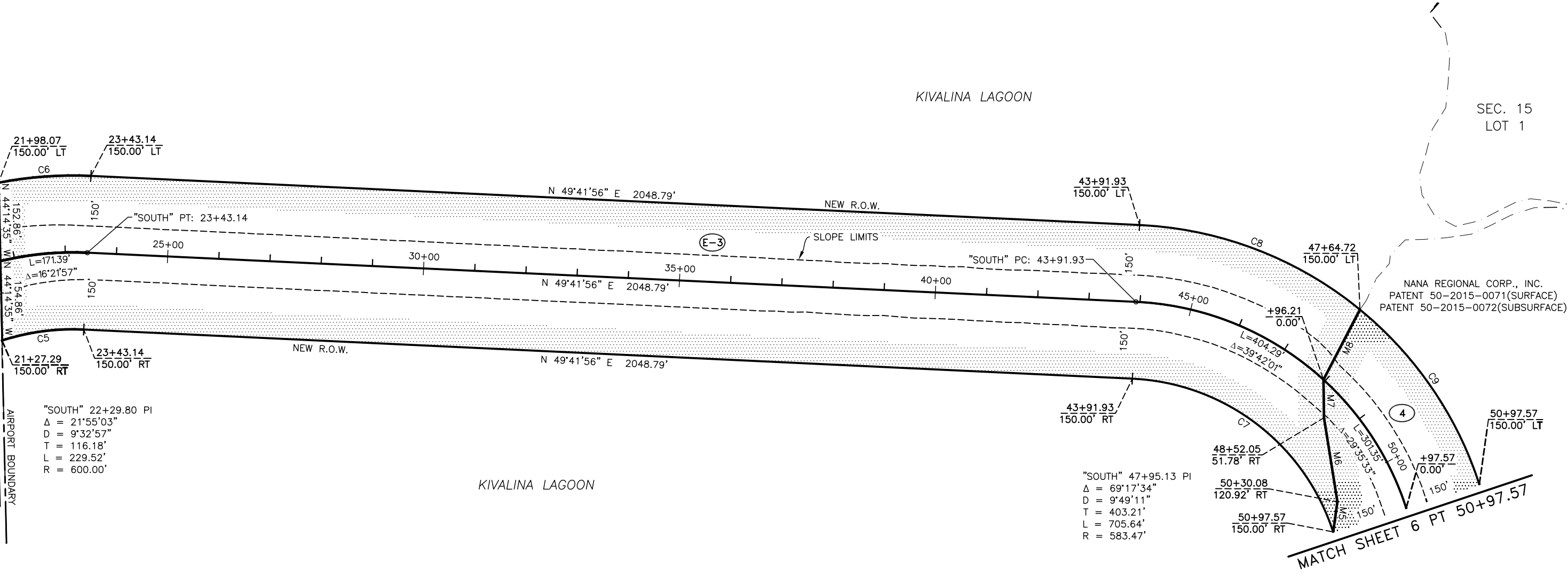


PRELIMINARY



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MATCH SHEET 4 STA 21+71.75 - AIRPORT BOUNDARY



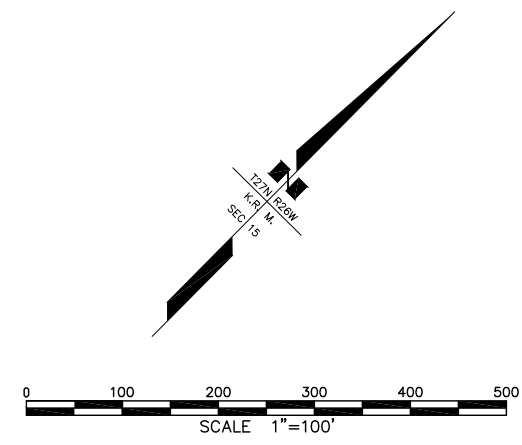
"SOUTH" 22+29.80 PI
 $\Delta = 21^{\circ}55'03''$
 $D = 9^{\circ}32'57''$
 $T = 116.18'$
 $L = 229.52'$
 $R = 600.00'$

"SOUTH" 47+95.13 PI
 $\Delta = 69^{\circ}17'34''$
 $D = 9^{\circ}49'11''$
 $T = 403.21'$
 $L = 705.64'$
 $R = 583.47'$

NANA REGIONAL CORP., INC.
 PATENT 50-2015-0071(SURFACE)
 PATENT 50-2015-0072(SUBSURFACE)

ROW CURVE DATA					
C#	DELTA	RADIUS	ARC LENGTH	TANGENT	CHORD BEARING
C5	20°36'42"	450.00'	161.88'	81.83'	N 39°23'35" E
C6	13°51'10"	750.00'	181.33'	91.11'	N 42°46'21" E
C7	69°17'34"	433.47'	524.23'	299.55'	N 84°20'43" E
C8	36°36'28"	733.47'	468.63'	242.63'	N 68°00'10" E
C9	32°41'06"	733.47'	418.42'	215.07'	S 77°21'03" E

MEANDER LINE DATA		
M#	BEARING	DISTANCE
M5	N 35°02'56" W	59.38'
M6	N 52°02'25" W	165.83'
M7	N 43°44'32" W	74.29'
M8	N 15°28'48" W	154.10'



PRELIMINARY

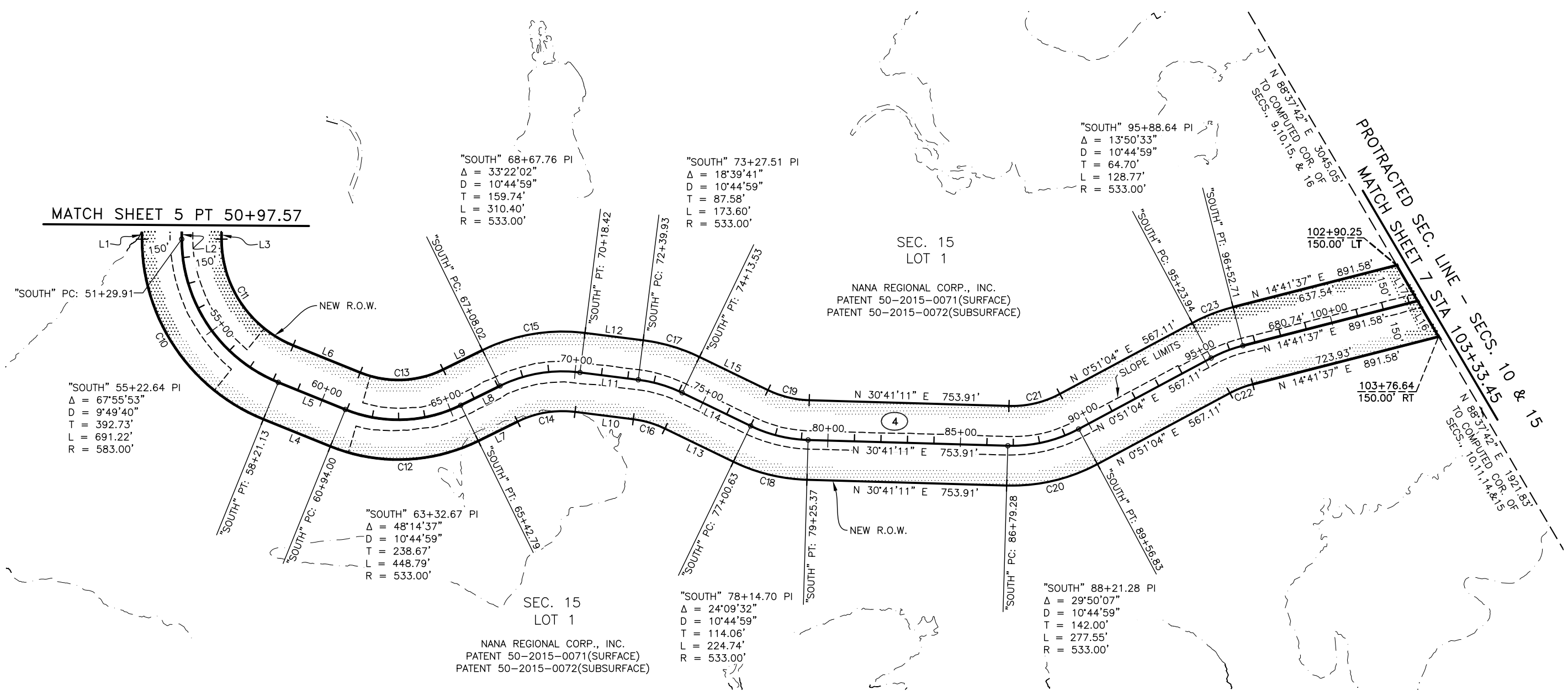
DATE	REVISION	BY

STATE OF ALASKA
 DEPARTMENT OF TRANSPORTATION
 AND
 PUBLIC FACILITIES
 RIGHT OF WAY MAP
 ALASKA PROJECT NO.
 002384/NFHWHY00162
 KIVALINA EVACUATION AND
 SCHOOL SITE ACCESS ROAD



PARCEL NUMBER	INTEREST TO BE ACQUIRED	OWNER(S)	LARGER PARCEL	ACQUISITION INCL. EXISTING EASEMENTS	NET ACQUISITION	REMAINDER
4	SEE NOTE 7D	NANA REGIONAL CORP.	LARGE	37.864 ACRES	37.864 ACRES	LARGE
E-3	SEE NOTE 7C	STATE OF ALASKA, DNR	LARGE	18.347 ACRES	18.347 ACRES	LARGE

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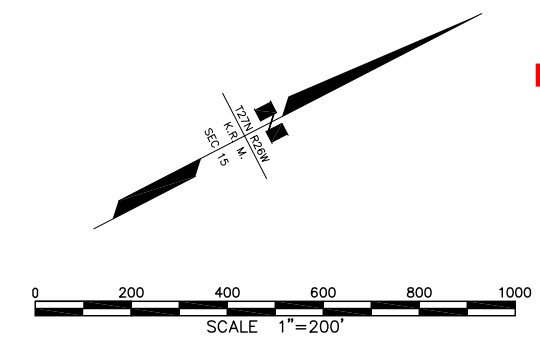


ROW CURVE DATA					
C#	DELTA	RADIUS	ARC LENGTH	TANGENT	CHORD BEARING
C10	67°55'53"	733.00'	869.06'	493.78'	N 85°01'34" E
C11	67°55'53"	433.00'	513.38'	291.69'	N 85°01'34" E
C12	48°14'37"	683.00'	575.09'	305.83'	N 26°56'18" E
C13	48°14'37"	383.00'	322.49'	171.50'	N 26°56'18" E
C14	33°22'02"	383.00'	223.05'	114.79'	N 19°30'01" E
C15	33°22'02"	683.00'	397.76'	204.70'	N 19°30'01" E
C16	18°39'41"	383.00'	124.74'	62.93'	N 45°30'52" E
C17	18°39'41"	683.00'	222.45'	112.22'	N 45°30'52" E
C18	24°09'32"	683.00'	287.99'	146.17'	N 42°45'57" E
C19	24°09'32"	383.00'	161.49'	81.96'	N 42°45'57" E
C20	29°50'07"	683.00'	355.66'	181.96'	N 15°46'08" E
C21	29°50'07"	383.00'	199.44'	102.04'	N 15°46'08" E
C22	13°50'33"	383.00'	92.53'	46.49'	N 7°46'21" E
C23	13°50'33"	683.00'	165.01'	82.91'	N 7°46'21" E

ROW LINE DATA		
L#	BEARING	DISTANCE
L1	S 61°00'30" E	32.34'
L3	S 61°00'30" E	32.34'
L4	N 51°03'37" E	272.87'
L6	N 51°03'37" E	272.87'
L7	N 2°49'00" E	165.22'
L9	N 2°49'00" E	165.22'
L10	N 36°11'02" E	221.51'
L12	N 36°11'02" E	221.51'
L13	N 54°50'43" E	287.10'
L15	N 54°50'43" E	287.10'
L16	N 88°37'42" E	156.10'
L17	N 88°37'42" E	156.10'

NOTE:
SEE SHEET 13 FOR NEW RIGHT OF WAY PC
AND PT OFFSETS FROM CENTERLINE.

CENTERLINE LINE DATA		
L#	BEARING	DISTANCE
L2	S 61°00'30" E	32.34'
L5	N 51°03'37" E	272.87'
L8	N 2°49'00" E	165.22'
L11	N 36°11'02" E	221.51'
L14	N 54°50'43" E	287.10'



PRELIMINARY



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STATE OF ALASKA
DEPARTMENT OF TRANSPORTATION
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RIGHT OF WAY MAP
ALASKA PROJECT NO.
0002384/NFHwy00162
KIVALINA EVACUATION AND
SCHOOL SITE ACCESS ROAD

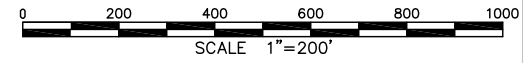
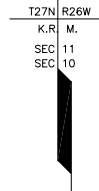
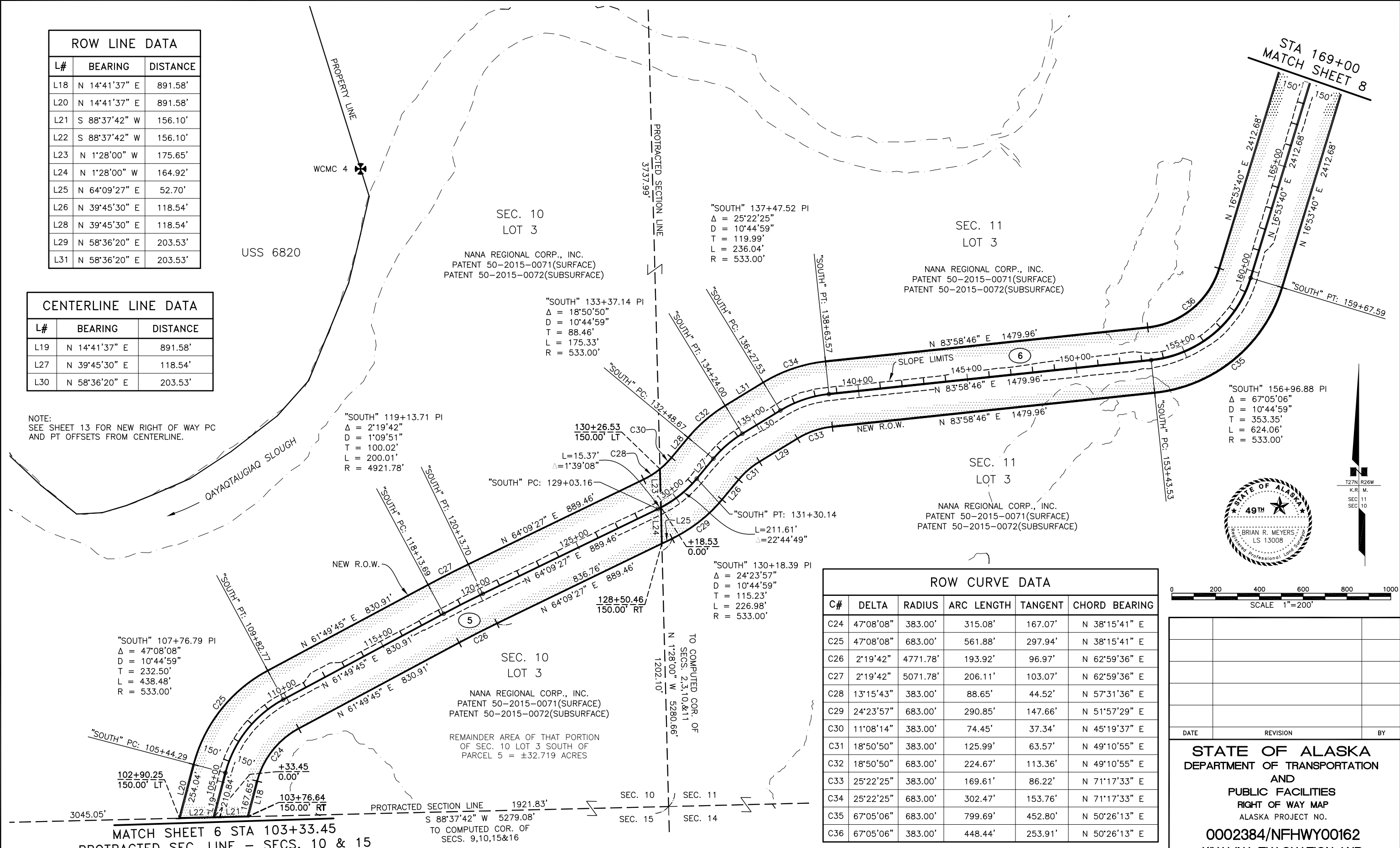
PARCEL NUMBER	INTEREST TO BE ACQUIRED	OWNER(S)	LARGER PARCEL	ACQUISITION INCL. EXISTING EASEMENTS	NET ACQUISITION	REMAINDER
4	SEE NOTE 7D	NANA REGIONAL CORP.	LARGE	37.864 ACRES	37.864 ACRES	LARGE

ROW LINE DATA		
L#	BEARING	DISTANCE
L18	N 14°41'37" E	891.58'
L20	N 14°41'37" E	891.58'
L21	S 88°37'42" W	156.10'
L22	S 88°37'42" W	156.10'
L23	N 1°28'00" W	175.65'
L24	N 1°28'00" W	164.92'
L25	N 64°09'27" E	52.70'
L26	N 39°45'30" E	118.54'
L28	N 39°45'30" E	118.54'
L29	N 58°36'20" E	203.53'
L31	N 58°36'20" E	203.53'

CENTERLINE LINE DATA		
L#	BEARING	DISTANCE
L19	N 14°41'37" E	891.58'
L27	N 39°45'30" E	118.54'
L30	N 58°36'20" E	203.53'

NOTE:
SEE SHEET 13 FOR NEW RIGHT OF WAY PC
AND PT OFFSETS FROM CENTERLINE.

STA 169+00
MATCH SHEET 8



ROW CURVE DATA					
C#	DELTA	RADIUS	ARC LENGTH	TANGENT	CHORD BEARING
C24	47°08'08"	383.00'	315.08'	167.07'	N 38°15'41" E
C25	47°08'08"	683.00'	561.88'	297.94'	N 38°15'41" E
C26	2°19'42"	4771.78'	193.92'	96.97'	N 62°59'36" E
C27	2°19'42"	5071.78'	206.11'	103.07'	N 62°59'36" E
C28	13°15'43"	383.00'	88.65'	44.52'	N 57°31'36" E
C29	24°23'57"	683.00'	290.85'	147.66'	N 51°57'29" E
C30	11°08'14"	383.00'	74.45'	37.34'	N 45°19'37" E
C31	18°50'50"	383.00'	125.99'	63.57'	N 49°10'55" E
C32	18°50'50"	683.00'	224.67'	113.36'	N 49°10'55" E
C33	25°22'25"	383.00'	169.61'	86.22'	N 71°17'33" E
C34	25°22'25"	683.00'	302.47'	153.76'	N 71°17'33" E
C35	67°05'06"	683.00'	799.69'	452.80'	N 50°26'13" E
C36	67°05'06"	383.00'	448.44'	253.91'	N 50°26'13" E

DATE	REVISION	BY

STATE OF ALASKA
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RIGHT OF WAY MAP
ALASKA PROJECT NO.
0002384/NFHWY00162
KIVALINA EVACUATION AND
SCHOOL SITE ACCESS ROAD

PARCEL NUMBER	INTEREST TO BE ACQUIRED	OWNER(S)	LARGER PARCEL	ACQUISITION INCL. EXISTING EASEMENTS	NET ACQUISITION	REMAINDER
6	SEE NOTE 7D	NANA REGIONAL CORP.	LARGE	43.912 ACRES	43.912 ACRES	LARGE
5	SEE NOTE 7D	NANA REGIONAL CORP.	LARGE	17.809 ACRES	17.809 ACRES	LARGE

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MATCH SHEET 7 STA 169+00

MATCH SHEET 9 STA 232+00

"SOUTH" 185+30.89 PI
 $\Delta = 31^{\circ}33'30''$
 $D = 10^{\circ}44'59''$
 $T = 150.62'$
 $L = 293.58'$
 $R = 533.00'$

"SOUTH" 208+66.02 PI
 $\Delta = 15^{\circ}39'11''$
 $D = 10^{\circ}44'59''$
 $T = 73.26'$
 $L = 145.61'$
 $R = 533.00'$

"SOUTH" 203+06.71 PI
 $\Delta = 38^{\circ}56'51''$
 $D = 10^{\circ}44'59''$
 $T = 188.47'$
 $L = 362.31'$
 $R = 533.00'$

SEC. 11
 LOT 3
 NANA REGIONAL CORP., INC.
 PATENT 50-2015-0071(SURFACE)
 PATENT 50-2015-0072(SUBSURFACE)

SEC. 2
 NANA REGIONAL CORP., INC.
 PATENT 50-2015-0071(SURFACE)
 PATENT 50-2015-0072(SUBSURFACE)

SEC. 1
 LOT 8
 REMAINDER AREA OF THAT
 PORTION OF SEC. 1 LOT 8
 WEST OF PARCEL 8 =
 ±65.025 ACRES

SEC. 11
 LOT 3
 NANA REGIONAL CORP., INC.
 PATENT 50-2015-0071(SURFACE)
 PATENT 50-2015-0072(SUBSURFACE)

SEC. 1
 LOT 8
 NANA REGIONAL CORP., INC.
 PATENT 50-2015-0071(SURFACE)
 PATENT 50-2015-0072(SUBSURFACE)

ROW CURVE DATA					
C#	DELTA	RADIUS	ARC LENGTH	TANGENT	CHORD BEARING
C37	31°33'30"	383.00'	210.96'	108.23'	N 32°40'25" E
C38	31°33'30"	683.00'	376.20'	193.00'	N 32°40'25" E
C39	38°56'51"	683.00'	464.28'	241.51'	N 28°58'45" E
C40	38°56'51"	383.00'	260.35'	135.43'	N 28°58'45" E
C41	15°39'11"	383.00'	104.64'	52.65'	N 17°19'55" E
C42	15°39'11"	683.00'	186.59'	93.88'	N 17°19'55" E

ROW LINE DATA		
L#	BEARING	DISTANCE
L32	N 88°35'34" E	232.68'
L33	N 88°35'34" E	232.68'
L34	N 9°30'20" E	312.20'
L36	N 9°30'20" E	312.20'
L37	N 1°28'00" W	334.71'
L38	N 1°28'00" W	334.71'

CENTERLINE LINE DATA		
L#	BEARING	DISTANCE
L35	N 9°30'20" E	312.20'

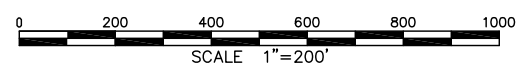
PARCEL NUMBER	INTEREST TO BE ACQUIRED	OWNER(S)	LARGER PARCEL	ACQUISITION INCL. EXISTING EASEMENTS	NET ACQUISITION	REMAINDER
8	SEE NOTE 7D	NANA REGIONAL CORP.	LARGE	28.606 ACRES	28.606 ACRES	LARGE
7	SEE NOTE 7D	NANA REGIONAL CORP.	LARGE	15.096 ACRES	15.096 ACRES	LARGE
6	SEE NOTE 7D	NANA REGIONAL CORP.	LARGE	43.912 ACRES	43.912 ACRES	LARGE

DATE	REVISION	BY

STATE OF ALASKA
 DEPARTMENT OF TRANSPORTATION
 AND
 PUBLIC FACILITIES
 RIGHT OF WAY MAP
 ALASKA PROJECT NO.
 0002384/NFHWY00162
 KIVALINA EVACUATION AND
 SCHOOL SITE ACCESS ROAD

SCALE: 1" = 200'

SHEET 8 OF 13



NOTE:
 SEE SHEET 13 FOR NEW RIGHT OF WAY PC
 AND PT OFFSETS FROM CENTERLINE.

PRELIMINARY



USS 6821
 LOT 1

USS 6821
 LOT 2

SEC. 12
 LOT 7

SEC. 11
 LOT 3

SEC. 2

SEC. 1
 LOT 8

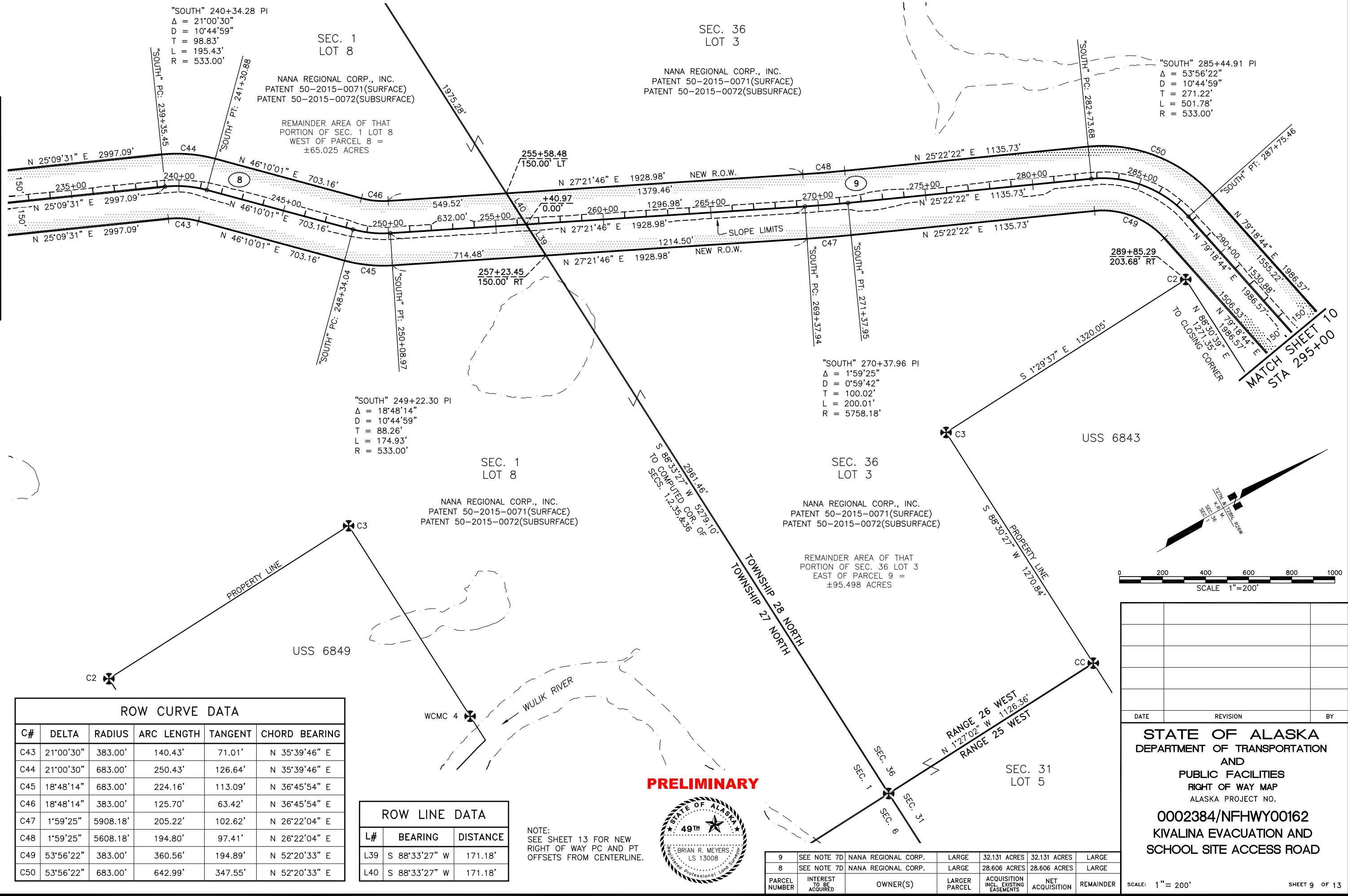
SEC. 11
 LOT 3

SEC. 1
 LOT 8

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MATCH SHEET 8 STA 230+00



"SOUTH" 249+22.30 PI
 $\Delta = 18^{\circ}48'14"$
 $D = 10^{\circ}44'59"$
 $T = 88.26'$
 $L = 174.93'$
 $R = 533.00'$

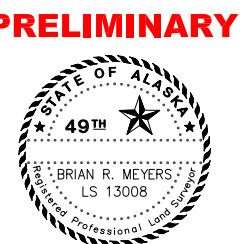
"SOUTH" 270+37.96 PI
 $\Delta = 1^{\circ}59'25"$
 $D = 0^{\circ}59'42"$
 $T = 100.02'$
 $L = 200.01'$
 $R = 5758.18'$

"SOUTH" 285+44.91 PI
 $\Delta = 53^{\circ}56'22"$
 $D = 10^{\circ}44'59"$
 $T = 271.22'$
 $L = 501.78'$
 $R = 533.00'$

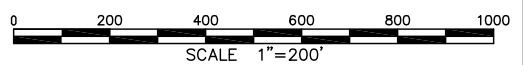
ROW CURVE DATA					
C#	DELTA	RADIUS	ARC LENGTH	TANGENT	CHORD BEARING
C43	21°00'30"	383.00'	140.43'	71.01'	N 35°39'46" E
C44	21°00'30"	683.00'	250.43'	126.64'	N 35°39'46" E
C45	18°48'14"	683.00'	224.16'	113.09'	N 36°45'54" E
C46	18°48'14"	383.00'	125.70'	63.42'	N 36°45'54" E
C47	1°59'25"	5908.18'	205.22'	102.62'	N 26°22'04" E
C48	1°59'25"	5608.18'	194.80'	97.41'	N 26°22'04" E
C49	53°56'22"	383.00'	360.56'	194.89'	N 52°20'33" E
C50	53°56'22"	683.00'	642.99'	347.55'	N 52°20'33" E

ROW LINE DATA		
L#	BEARING	DISTANCE
L39	S 88°33'27" W	171.18'
L40	S 88°33'27" W	171.18'

NOTE:
 SEE SHEET 13 FOR NEW
 RIGHT OF WAY PC AND PT
 OFFSETS FROM CENTERLINE.



PARCEL NUMBER	INTEREST TO BE ACQUIRED	OWNER(S)	LARGER PARCEL	ACQUISITION INCL. EXISTING EASEMENTS	NET ACQUISITION	REMAINDER
9	SEE NOTE 7D	NANA REGIONAL CORP.	LARGE	32.131 ACRES	32.131 ACRES	LARGE
8	SEE NOTE 7D	NANA REGIONAL CORP.	LARGE	28.606 ACRES	28.606 ACRES	LARGE

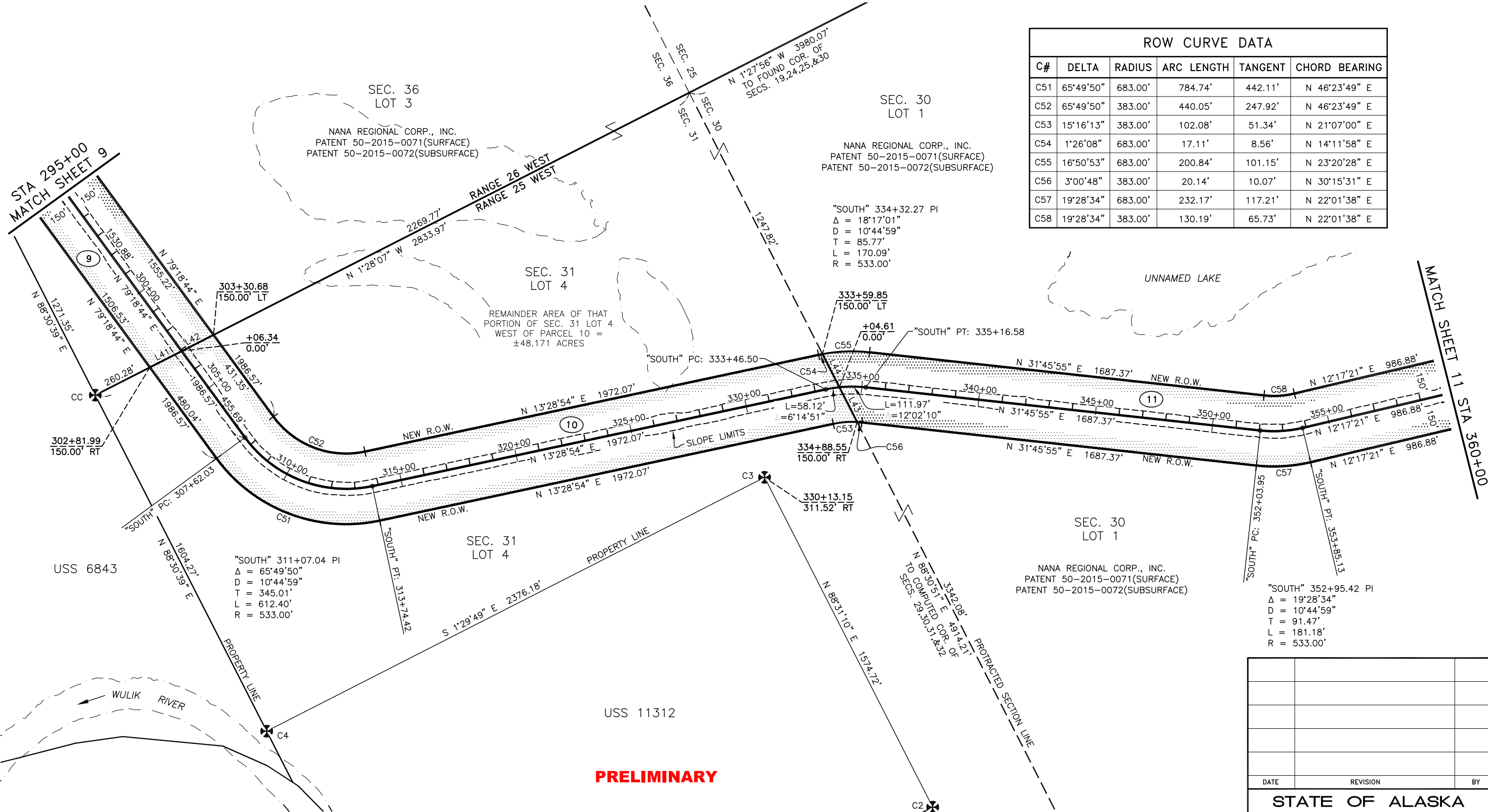


DATE	REVISION	BY

STATE OF ALASKA
 DEPARTMENT OF TRANSPORTATION
 AND
 PUBLIC FACILITIES
 RIGHT OF WAY MAP
 ALASKA PROJECT NO.
 0002384/NFHWY00162
 KIVALINA EVACUATION AND
 SCHOOL SITE ACCESS ROAD

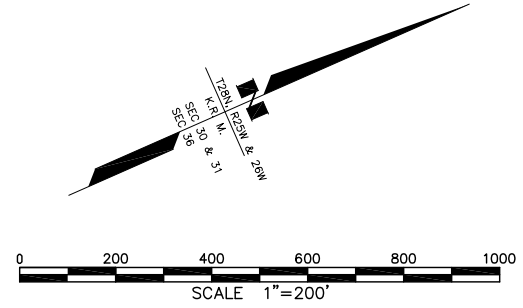
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ROW CURVE DATA					
C#	DELTA	RADIUS	ARC LENGTH	TANGENT	CHORD BEARING
C51	65°49'50"	683.00'	784.74'	442.11'	N 46°23'49" E
C52	65°49'50"	383.00'	440.05'	247.92'	N 46°23'49" E
C53	15°16'13"	383.00'	102.08'	51.34'	N 21°07'00" E
C54	1°26'08"	683.00'	17.11'	8.56'	N 14°11'58" E
C55	16°50'53"	683.00'	200.84'	101.15'	N 23°20'28" E
C56	3°00'48"	383.00'	20.14'	10.07'	N 30°15'31" E
C57	19°28'34"	683.00'	232.17'	117.21'	N 22°01'38" E
C58	19°28'34"	383.00'	130.19'	65.73'	N 22°01'38" E



ROW LINE DATA		
L#	BEARING	DISTANCE
L41	N 1°28'07" W	151.96'
L42	N 1°28'07" W	151.96'
L43	N 88°30'51" E	165.99'
L44	N 88°30'51" E	158.32'

NOTE:
SEE SHEET 13 FOR NEW RIGHT OF WAY PC
AND PT OFFSETS FROM CENTERLINE.

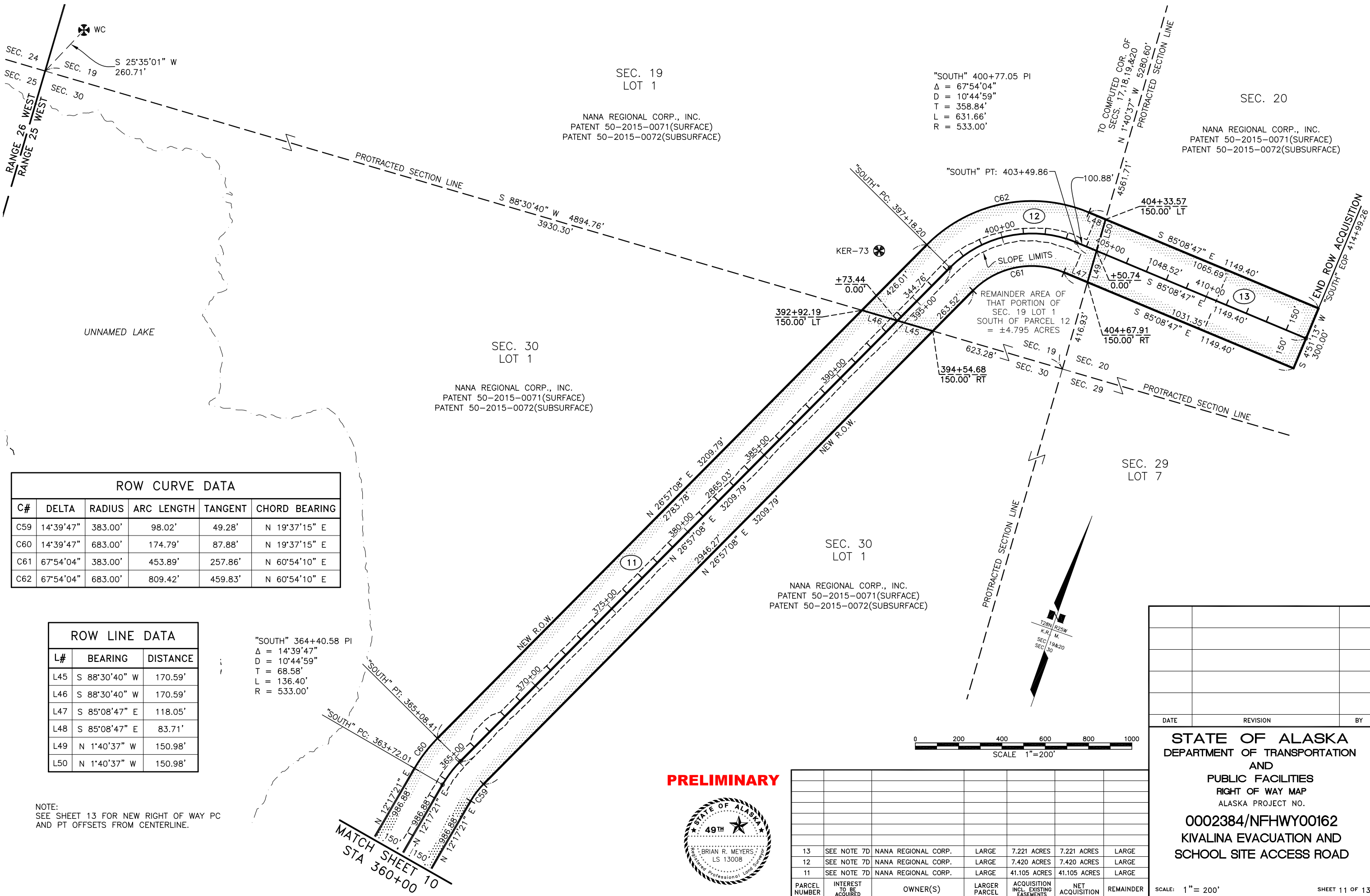


PARCEL NUMBER	INTEREST TO BE ACQUIRED	OWNER(S)	LARGER PARCEL	ACQUISITION INCL. EXISTING EASEMENTS	NET ACQUISITION	REMAINDER
11	SEE NOTE 7D	NANA REGIONAL CORP.	LARGE	41.105 ACRES	41.105 ACRES	LARGE
10	SEE NOTE 7D	NANA REGIONAL CORP.	LARGE	21.342 ACRES	21.342 ACRES	LARGE
9	SEE NOTE 7D	NANA REGIONAL CORP.	LARGE	32.131 ACRES	32.131 ACRES	LARGE

DATE	REVISION	BY

STATE OF ALASKA
 DEPARTMENT OF TRANSPORTATION
 AND
 PUBLIC FACILITIES
 RIGHT OF WAY MAP
 ALASKA PROJECT NO.
0002384/NFHWY00162
KIVALINA EVACUATION AND
SCHOOL SITE ACCESS ROAD

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SEC. 19
LOT 1
NANA REGIONAL CORP., INC.
PATENT 50-2015-0071(SURFACE)
PATENT 50-2015-0072(SUBSURFACE)

SEC. 20
NANA REGIONAL CORP., INC.
PATENT 50-2015-0071(SURFACE)
PATENT 50-2015-0072(SUBSURFACE)

SEC. 30
LOT 1
NANA REGIONAL CORP., INC.
PATENT 50-2015-0071(SURFACE)
PATENT 50-2015-0072(SUBSURFACE)

SEC. 30
LOT 1
NANA REGIONAL CORP., INC.
PATENT 50-2015-0071(SURFACE)
PATENT 50-2015-0072(SUBSURFACE)

ROW CURVE DATA

C#	DELTA	RADIUS	ARC LENGTH	TANGENT	CHORD BEARING
C59	14°39'47"	383.00'	98.02'	49.28'	N 19°37'15" E
C60	14°39'47"	683.00'	174.79'	87.88'	N 19°37'15" E
C61	67°54'04"	383.00'	453.89'	257.86'	N 60°54'10" E
C62	67°54'04"	683.00'	809.42'	459.83'	N 60°54'10" E

ROW LINE DATA

L#	BEARING	DISTANCE
L45	S 88°30'40" W	170.59'
L46	S 88°30'40" W	170.59'
L47	S 85°08'47" E	118.05'
L48	S 85°08'47" E	83.71'
L49	N 1°40'37" W	150.98'
L50	N 1°40'37" W	150.98'

"SOUTH" 364+40.58 PI
 $\Delta = 14°39'47"$
 $D = 10°44'59"$
 $T = 68.58'$
 $L = 136.40'$
 $R = 533.00'$

NOTE:
SEE SHEET 13 FOR NEW RIGHT OF WAY PC
AND PT OFFSETS FROM CENTERLINE.

MATCH SHEET TO
STA 360+00

PRELIMINARY



PARCEL NUMBER	INTEREST TO BE ACQUIRED	OWNER(S)	LARGER PARCEL	ACQUISITION INCL. EXISTING EASEMENTS	NET ACQUISITION	REMAINDER
13	SEE NOTE 7D	NANA REGIONAL CORP.	LARGE	7.221 ACRES	7.221 ACRES	LARGE
12	SEE NOTE 7D	NANA REGIONAL CORP.	LARGE	7.420 ACRES	7.420 ACRES	LARGE
11	SEE NOTE 7D	NANA REGIONAL CORP.	LARGE	41.105 ACRES	41.105 ACRES	LARGE

DATE	REVISION	BY

STATE OF ALASKA
DEPARTMENT OF TRANSPORTATION
AND
PUBLIC FACILITIES
RIGHT OF WAY MAP
ALASKA PROJECT NO.
0002384/NFHWY00162
KIVALINA EVACUATION AND
SCHOOL SITE ACCESS ROAD

SCALE: 1" = 200'

SHEET 11 OF 13

RECOVERED PROPERTY CORNERS

POINT	LOCAL		STATION	OFFSET	DESCRIPTION	SHEET
	NORTHING	EASTING				
755	5020598.620	1842487.774	10+00.04	49.26 LT	FND IP[BLM]: WCMC1 L1 USS 3776	4
756	5020843.148	1842709.075	10+00.25	280.54 RT	FND IP/BC[BLM]: WCMC8 L1 USS 3776	4
785	5037332.521	1832919.044	107+22.05	17723.23 LT	SET RBR/AC[5480-S]: MC S31/S6 T28N/T27N R26W	3
790	5029884.934	1845482.789	108+36.50	3226.26 LT	FND SS POST/BC[BLM]: WCMC1 USS 6820	3
791	5031342.489	1845510.669	109+49.46	4366.88 LT	FND SS POST/BC[BLM]: WC C2 USS 6820	3
793	5030070.610	1848191.015	123+58.55	1990.41 LT	FND SS POST/BC[BLM]: WCMC4 USS 6820	3,7
792	5031993.222	1847589.408	133+79.62	3910.75 LT	FND SS POST/BC[BLM]: C3 USS 6820	3
757	5028855.032	1853168.450	158+31.72	1135.94 RT	FND SS POST/BC[BLM]: C4 L2 USS 6821	3
784	5027419.440	1860151.905	162+02.55	8181.26 RT	FND SS POST BC[BLM]: S12 S7/S13 S18 T27N R26W/R25W	3
758	5030834.313	1853119.226	174+26.28	459.70 RT	FND SS POST/BC[BLM]: C3 L2 USS 6821	3,8
759	5030892.651	1855443.158	196+00.53	2467.49 RT	FND SS POST/BC[BLM]: C2 L2 USS 6821	3,8
760	5032677.206	1855464.532	203+23.84	1279.25 RT	FND SS POST/BC[BLM]: WC C2 L1 USS 6821	3,8
762	5031500.481	1858397.600	203+50.39	4436.03 RT	FND SS POST/BC[BLM]: WCMC4 L1 USS 6821	3
761	5032750.009	1858366.500	216+12.00	3998.35 RT	FND SS POST/BC[BLM]: C3 L1 USS 6821	3
764	5035151.011	1857558.348	234+41.66	2246.14 RT	FND SS POST/BC[BLM]: C2 USS 6849	3,9
763	5035189.293	1859021.341	249+07.63	3331.66 RT	FND SS POST/BC[BLM]: WCMC1 USS 6849	3
765	5036470.485	1857524.082	249+29.83	1364.30 RT	FND SS POST/BC[BLM]: C3 USS 6849	3,9
766	5036497.809	1858572.535	252+34.46	2262.01 RT	FND SS POST/BC[BLM]: WCMC4 USS 6849	3,9
767	5037977.368	1859882.102	270+81.78	2747.67 RT	FND IP/BC[BLM]: S36 S31/S6 S1 T28N T27N R26W/R25W	3,9
773	5039070.269	1858583.178	274+85.85	1105.32 RT	FND SS POST/BC[BLM]: C3 USS 6843	3,9
774	5040389.870	1858548.770	289+85.29	203.68 RT	FND SS POST/BC[BLM]: C2 USS 6843	3,9
772	5039103.350	1859853.590	300+28.88	1709.87 RT	FND SS POST/BC[BLM]: CC USS 6843/S36 S31 T28N R26W/R25W	3,9
775	5040422.813	1859819.696	302+40.28	407.01 RT	FND SS POST/BC[BLM]: CC USS 6843/S36 S31 T28N R26W/R25W	3,10
769	5038118.579	1860347.666	303+31.75	2769.19 RT	FND SS POST/BC[BLM]: WCMC1 L5 USS 6817	3
768	5037990.997	1860392.136	303+51.79	2902.80 RT	FND IP BC[BLM]: MC S6/S31 T27N/T28N R25W	3
771	5039115.536	1860321.723	304+91.15	1784.71 RT	FND SS POST/BC[BLM]: C2 L5 USS 6817	3
770	5039126.771	1860751.859	307+96.35	1858.40 RT	FND SS POST/BC[BLM]: WCMC3 L5 USS 6817	3
776	5040464.595	1861423.419	311+48.94	1066.67 RT	FND SS POST/BC[BLM]: C4 USS 11312	3,10
778	5042839.961	1861361.350	330+13.15	311.52 RT	FND SS POST/BC[BLM]: C3 USS 11312	3,10
779	5042880.649	1862935.547	339+93.89	1744.26 RT	FND SS POST/BC[BLM]: C2 USS 11312	3,10
794	5050269.271	1851367.952	364+53.10	11807.21 LT	FND SS POST/BC[BLM]: C3 USS 6846	3
795	5050290.098	1852189.387	364+67.54	11052.09 LT	FND SS POST/BC[BLM]: WC C2 USS 6846	3
797	5052183.388	1851319.696	369+14.42	12651.41 LT	FND SS POST/BC[BLM]: WCMC4 USS 6846	3
796	5051665.636	1852389.199	369+37.66	11463.40 LT	FND SS POST/BC[BLM]: WCMC1 USS 6846	3
780	5048769.685	1859724.586	376+81.00	3612.17 LT	FND IP/BC[BLM]: WC S24 S19/S25 S30 T28N R26W/R25W	3,11
783	5059092.510	1859341.492	400+65.51	10994.20 LT	FND SS POST BC[BLM]: S12 S7/S13 S18 T28N R26W/R25W	3
781	5048802.206	1869783.868	-	-	FND COPPER COATED STEEL ROD[BLM]: S20 S21/S29 S28 T28N R25W	3
782	5059356.256	1869474.903	-	-	FND IP/BC[BLM]: S8 S9/S17 S16 T28N R25W	3

GENERAL NOTES

- COORDINATES, STATIONS, AND OFFSETS LISTED IN THE RECOVERED MONUMENT TABLES REFER TO THE POSITION OF THE PHYSICAL EVIDENCE. DIMENSIONS, STATIONS AND OFFSETS AS SHOWN ON THE PLAN SHEETS REFLECT ADJUSTED POSITIONS. ADJUSTED POSITIONS ARE BASED ON AN EVALUATION OF THE CONTROLLING EVIDENCE AND SENIOR RIGHTS AND MAY VARY FROM THE POSITION OF THE PHYSICAL EVIDENCE.
- ALL DOCUMENTS NOTED IN THIS PLAN SET AND REFERENCED BY INSTRUMENT NUMBER OR BOOK AND PAGE ARE RECORDED IN THE KOTZEBUE RECORDING DISTRICT, UNLESS NOTED OTHERWISE.
- THE NATURAL MEANDERS OF THE MEAN HIGH WATER (MHW) FORM THE TRUE BOUNDS OF PARCELS E-2, E-3, AND 4. THE APPROXIMATE LINE OF MHW, AS SHOWN, IS FOR AREA COMPUTATIONS ONLY. THE TRUE CORNERS BEING ON THE EXTENSION OF THE SIDELINES AND THEIR INTERSECTION WITH THE NATURAL MEANDERS. THE APPROXIMATE MHW LINES OF PARCELS E-2, E-3, AND 4 WERE DETERMINED FROM A FIELD SURVEY PERFORMED BY R&M CONSULTANTS, INC (R&M) ON JULY 4, 2014 AND ARE BASED ON TIDAL DATUM 9491253, KIVALINA AK, EPOCH 1983-2001. MHW ELEVATIONS WERE DETERMINED BY DIFFERENTIAL LEVELS ORIGINATING FROM NOAA TIDAL BENCH MARK 949 1253 E. THE PUBLISHED MHW ELEVATION OF BENCH MARK 949 1253 E = 11.85 FEET. TO CONVERT NAVD88 PROJECT ELEVATIONS TO MLLW DATUM ELEVATIONS, SUBTRACT 2.77 FEET. TO CONVERT NAVD88 PROJECT ELEVATIONS TO MHW DATUM ELEVATIONS, SUBTRACT 3.54 FEET.
- RIGHT-OF-WAY (ROW) WIDTHS SHOWN TO THE NEAREST FOOT REPRESENT ACTUAL DISTANCES TO THE NEAREST HUNDREDTH OF A FOOT (I.E. 150' = 150.00')
- THE PROTRACTED SECTION LINES SHOWN HEREON WERE COMPUTED BY R&M BASED ON FOUND MONUMENT POSITIONS PROVIDED BY MCCLINTOCK LAND ASSOCIATES, INC. SECTION CORNERS WERE COMPUTED USING THE APPLICABLE METHODS IN THE BLM MANUAL OF SURVEYING INSTRUCTIONS (1973). THE PROTRACTED SECTION LINES SHOWN HEREON WERE COMPUTED FOR THE PURPOSES OF ESTABLISHING THE BOUNDARIES BETWEEN THE APPLICABLE PARCELS AND AREA COMPUTATIONS OF SAID PARCELS. BEARINGS AND DISTANCES SHOWN TO COMPUTED SECTION CORNERS ARE NOT TO BE USED IN ESTABLISHING THE BOUNDARIES OF APPLICABLE PARCELS. PARCELS ARE DEFINED BY THE PROJECT ALIGNMENT AND THE APPLICABLE OFFSETS FROM SAID ALIGNMENT.
- A.S. 9.55.275 REPLAT APPROVAL REQUIRES AN AGENCY OF THE STATE ACQUIRING PROPERTY IN FEE THAT RESULTS IN A BOUNDARY CHANGE TO OBTAIN REPLAT APPROVAL FROM A MUNICIPALITY EXERCISING PLATTING AUTHORITY. THE SURFACE AND SUBSURFACE ESTATE FOR PARCELS 4 THROUGH 13 ARE OWNED BY NANA REGIONAL CORPORATION, INC. (NANA) AND WILL BE CONVEYED IN FEE TO THE CITY OF KIVALINA UNDER THE TERMS OF SECTION 14(C)(3) OF THE ALASKA NATIVE CLAIMS SETTLEMENT ACT (ANCSA). ANCSA 14(C)(3) RECONVEYANCES ARE EXCLUDED FROM THE DEFINITION OF "SUBDIVISION" ACCORDING TO SECTION 8.16.020 "DEFINITIONS" OF THE NORTHWEST ARCTIC BOROUGH CODE.
- INTERESTS TO BE ACQUIRED:
 - PARCEL 1: THIS PARCEL IS LOCATED ON THE KIVALINA AIRPORT. A PERMIT FOR MAINTENANCE AND OPERATION WILL BE ISSUED TO THE CITY OF KIVALINA BY THE ALASKA DEPARTMENT OF TRANSPORTATION AND PUBLIC FACILITIES (DOT&PF) RURAL AIRPORTS LEASING OFFICE.
 - PARCEL E-2: THIS PARCEL OVERLAYS THE EXISTING DNR INTERAGENCY LAND MANAGEMENT ASSIGNMENT (ILMA) FOR THE SUBMERGED LANDS WITHIN THE KIVALINA AIRPORT BOUNDARY AND IS LIMITED TO AIRPORT PURPOSES ONLY. DNR INTENDS TO ISSUE A SEPARATE PUBLIC ROAD EASEMENT WITHIN THE ILMA AREA TO DOT&PF.
 - PARCEL E-3: THIS PARCEL OVERLAYS THE SUBMERGED LANDS WITHIN KIVALINA LAGOON OUTSIDE OF THE KIVALINA AIRPORT BOUNDARY. DNR INTENDS TO ISSUE A PUBLIC ROAD EASEMENT FOR THIS PARCEL TO DOT&PF.
 - PARCELS 4 THRU 13: ALL OF THESE PARCELS ARE OWNED BY NANA. THE INTEREST WILL TRANSITION FROM A PRELIMINARY EASEMENT TO THE CITY OF KIVALINA TO AN ANCSA 14(C)(3) RECONVEYANCE IN FEE FROM NANA TO THE CITY OF KIVALINA AND ULTIMATELY THE PARCELS WILL BE DEDICATED TO THE PUBLIC BY THE CITY OF KIVALINA THROUGH A NORTHWEST ARCTIC BOROUGH PLATTING PROCESS. THE COMPLETED AND PENDING ACTIONS INCLUDE:
 - ROW EASEMENT AGREEMENT BETWEEN NANA REGIONAL CORPORATION, INC. AND THE CITY OF KIVALINA RECORDED AS DOCUMENT 2018-000586-0 ON AUGUST 27, 2018, KOTZEBUE RECORDING DISTRICT.
 - CITY OF KIVALINA RESOLUTION 18-03 ADOPTED AUGUST 16, 2018 AGREEING TO DEDICATE TO THE PUBLIC THE ANCSA 14(C)(3) LANDS RECEIVED FROM NANA CORP. FOR THE PROJECT ROW. RECORDED AS DOCUMENT 2018-000586-0 ON AUGUST 27, 2018, KOTZEBUE RECORDING DISTRICT.
 - PENDING: ANCSA 14(C)(3) RECONVEYANCE OF PROJECT ROW PARCELS IN FEE FROM NANA CORP. TO CITY OF KIVALINA AS REFERENCED IN PARAGRAPH IV. OF THE ROW EASEMENT AGREEMENT RECORDED AS DOCUMENT 2018-000586-0 ON AUGUST 27, 2018, KOTZEBUE RECORDING DISTRICT.
 - PENDING: PUBLIC DEDICATION OF ROW PARCELS CONVEYED IN FEE FROM NANA CORP. TO CITY OF KIVALINA AS REFERENCED IN CITY OF KIVALINA RESOLUTION 18-03 RECORDED AS DOCUMENT 2018-000586-0 ON AUGUST 27, 2018, KOTZEBUE RECORDING DISTRICT.

HORIZONTAL CONTROL

POINT	NAD83(2011)			LOCAL		STATION	OFFSET	DESCRIPTION	SHEET
	N. LATITUDE	W. LONGITUDE	ELLIPSOID HT.	NORTHING	EASTING				
73	67°48'16.84662"	164°23'13.85267"	87.83	5048922.257	1863532.439	395+42.91	287.06 LT	SET SS ROD/AC[5480-S]: KER GPS 73 CP	3,11
401	67°46'42.27263"	164°28'31.01328"	71.06	5039003.225	1851583.140	239+80.60	4819.09 LT	SET SS ROD/AC[5480-S]: KER CP 401	3
563	67°44'24.08502"	164°34'18.87557"	9.72	5024641.809	1838525.994	21+94.79	5131.79 LT	FND SS ROD/BC[USKH]: KVL B	3
564	67°43'46.66315"	164°32'44.55681"	15.88	5020923.786	1842249.468	13+60.17	74.64 LT	FND SS ROD/BC[USKH]: KVL C	4
567	67°43'45.86231"	164°32'43.86136"	15.09	5020843.038	1842278.188	12+97.05	52.30 LT	FND AC[6714-S]: KACE-2	4
601*	67°43'29.08156"	164°31'58.04249"	15.26	5019179.520	1844084.793	52+65.94	4062.19 RT	FND SS ROD: 949 1253 E	*
602*	67°43'38.17969"	164°32'21.64028"	16.31	5020082.537	1843153.177	-	-	FND SS ROD: 949 1253 G	*

* NOT SHOWN GRAPHICALLY HEREON

PRELIMINARY



DATE	REVISION	BY

STATE OF ALASKA
DEPARTMENT OF TRANSPORTATION
AND
PUBLIC FACILITIES
RIGHT OF WAY MAP
ALASKA PROJECT NO.
0002384/NFHWY00162
KIVALINA EVACUATION AND
SCHOOL SITE ACCESS ROAD

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