U. S. Department
of Transportation

**Federal Aviation
Administration**

Alaskan Region

222 W. 7th Avenue #14
Anchorage, Alaska
99513-7587

December 15, 2005

Mr. Harvey Douthit, Design Section Chief
State of Alaska, DOT & PF
P.O. Box 196960
Anchorage, Alaska 99519-6960

Nightmute Airport
Airport Layout Plan Approval
Airspace Case 05AAL-33-NRA

We have completed our review of the Nightmute Airport Layout Plan (ALP), and find it acceptable from a planning standpoint.

No Modifications to Standards are approved with this ALP approval.

The approval indicated by my signature is given subject to the condition that the proposed airport development that requires environmental processing shall not be undertaken without prior written environmental approval by the FAA.

This approval considers only the safety, utility, and efficiency of the airport. We encourage you to work with appropriate agencies to encourage adoption of height and zoning restrictions.

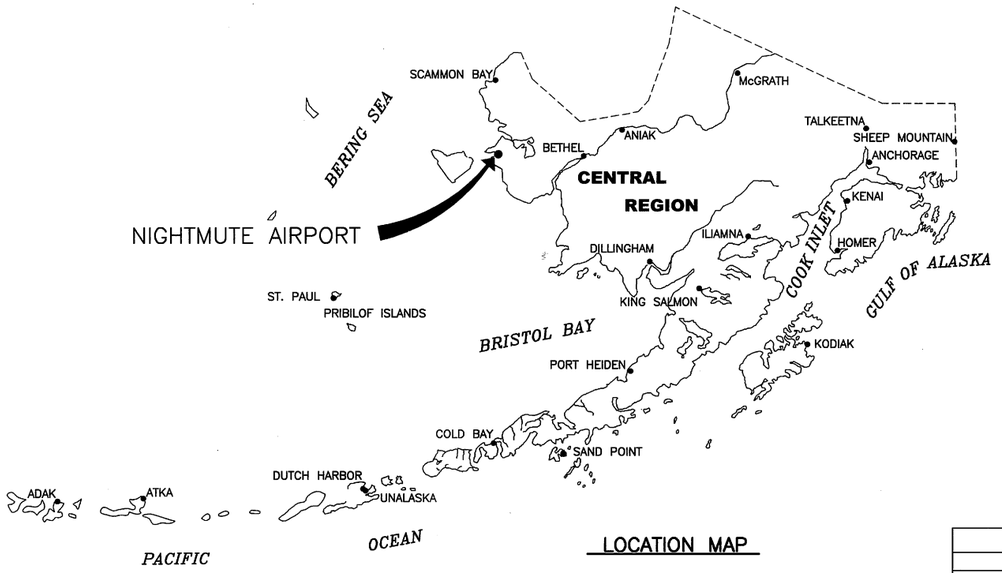
This approval does not represent a commitment to provide financial assistance to implement the proposed plan. FAA assistance in any development or its approval for any development will be determined at the time of request, based on the existing regulations, project justification, and eligibility at the time of the request.

When airport construction, alteration, or deactivation is undertaken, such action requires FAA notification and review in accordance with the provisions of Part 77 and Part 157 of the Federal Aviation Regulations. In addition, all airport construction must be completed in accordance with FAA Advisory circulars current at the time of construction.

Please attach this letter to the enclosed ALP and retain it in your files for future use.

If you have any questions, please contact Mr. John Lovett at 271-5446.
Sincerely,

Debbie Roth, Deputy Division Manager
Airports Division



LOCATION MAP

LEGEND		
ITEM	EXISTING	ULTIMATE
AIRPORT REFERENCE POINT (A.R.P.)		
ANTENNA		
BLUFF		
BUILDINGS		
BUILDING RESTRICTION LINE		
FENCE		
PAPI		
PROPERTY LINE		
REIL		
ROADWAYS		
ROTATING BEACON		
SHORELINE		
SURVEY MONUMENT		
THRESHOLD MARKERS/LIGHTS		
TOPOGRPHIC CONTOURS	100	100
TREE (LARGE SINGLE)		
TREELINE		
VASI		
WIND CONE		
WIND CONE AND SEGMENTED CIRCLE		

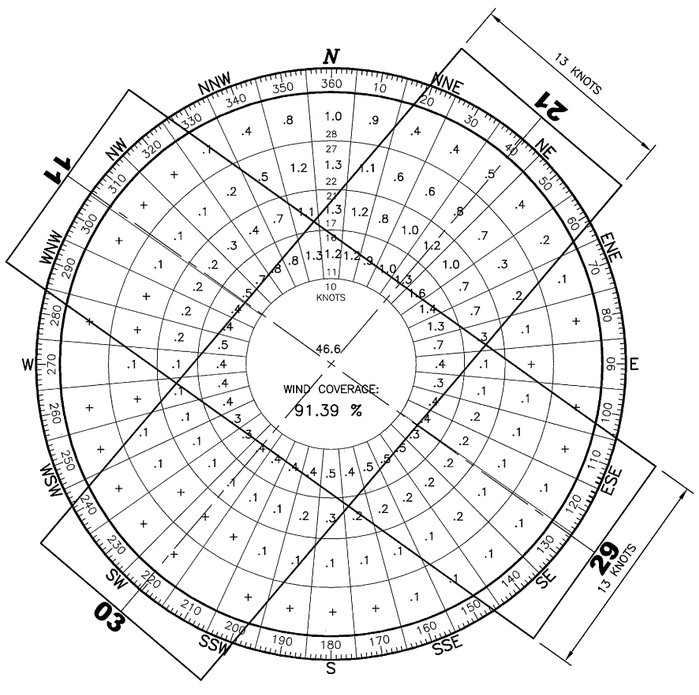
AIRPORT DATA TABLE		
ITEM	EXISTING	ULTIMATE
ICAO IDENTIFIER	NONE	NONE
NATIONAL AIRPORT IDENTIFIER	IGT	IGT
FAA SITE NUMBER	50529.75*A	50529.75*A
AIRPORT ELEVATION (NAVD88)	3.9'	6.0'
AIRPORT REFERENCE CODE	A I	B II
MEAN MAX. TEMPERATURE, HOTTEST MONTH	52 F° JULY	52 F° JULY
AIRPORT AND TERMINAL NAVIGATION AIDS	NONE	GPS
	ROTATING BEACON	ROTATING BEACON
TAXIWAY LIGHTING/MARKING	NONE	M. I. / NA
OBSTRUCTION SURVEY SOURCE & TYPE	NONE	ANP
MAGNETIC DECLINATION, YEAR, RATE OF CHANGE	13°40'E, 2005,	−0°9' (W)/YEAR
	12°34'E, 2010,	−0°10' (W)/YEAR

GEOGRAPHIC COORDINATES TABLE				
ITEM	EXISTING LATITUDE	EXISTING LONGITUDE	ULTIMATE LATITUDE	ULTIMATE LONGITUDE
ARP	60°28'15.77"	164°42'03.02"	60°28'6.83"	164°41'59.99"
THRESHOLD RW 03	60°28'21.80"	164°41'52.63"	60°27'56.99"	164°42'35.15"
THRESHOLD RW 21	60°28'9.77"	164°42'13.25"	60°28'21.05"	164°41'53.92"
THRESHOLD RW 11			60°28'11.43"	164°42'2.58"
THRESHOLD RW 29			60°27'56.77"	164°41'21.05"

SURVEY DATA SOURCE: MCCLINTOCK FIELD SURVEY (1998 & 2004)

RUNWAY 11/29 DATA TABLE		
ITEM	EXISTING	ULTIMATE
RUNWAY TYPE ENTER UTILITY OR >UTILITY	N/A	UTILITY
FAR PART 77 APPROACH CATEGORY (V, NPI, P)	N/A	NPI / NPI
APPROACH SURFACES	N/A	20:1/ 34:1
VISIBILITY MINIMUM	N/A	> 1 SM
RUNWAY SURFACE	N/A	GRAVEL
PAVEMENT STRENGTH SW,DW,DTW,DDTW 1000lbs	N/A	N/A
AIRCRAFT APPROACH CATEGORY	N/A	B
AIRPLANE DESIGN GROUP	N/A	II
RUNWAY DIMENSIONS	N/A	75'x2560'
TRUE BEARING	N/A	N54° 26' 10"W
EFFECTIVE GRADE	N/A	0 %
TOUCHDOWN ELEVATION (MSL NAVD88)	N/A	6.0' / 6.0'
RUNWAY SAFETY AREA (RSA)	N/A	150'x3160'
LENGTH BEYOND R/W END	N/A	300' / 300'
RUNWAY PROTECTION ZONE (RPZ)	N/A	500' X 700' X 1000'
RUNWAY OBJECT FREE AREA (OFA)	N/A	500'x3160'
RUNWAY OBSTACLE FREE ZONE (OFZ)	N/A	250'x2960'
RUNWAY LIGHTING	N/A	M.I.
RUNWAY MARKING TYPE	N/A	NONE
RUNWAY VISUAL APPROACH AIDS	N/A	REIL / PAPI, REIL

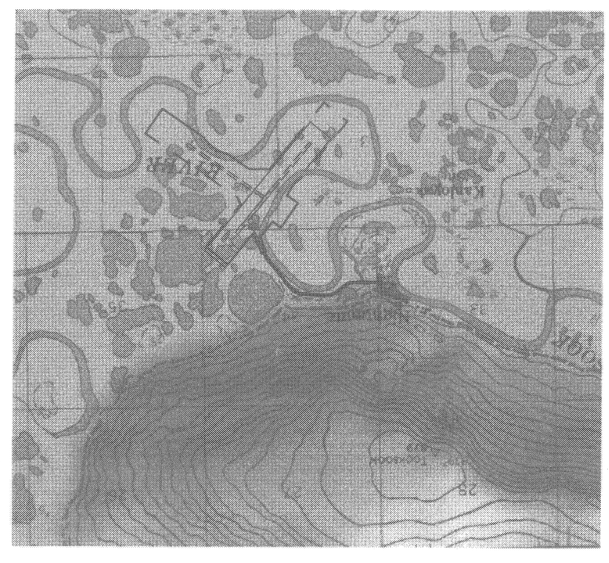
RUNWAY 03/21 DATA TABLE			
ITEM	EXISTING	NEAR–TERM	ULTIMATE
RUNWAY TYPE ENTER UTILITY OR >UTILITY	UTILITY	UTILITY	UTILITY
FAR PART 77 APPROACH CATEGORY (V, NPI, P)	V / V	NPI / NPI	NPI / NPI
APPROACH SURFACES	20:1/ 20:1	34:1/ 34:1	34:1/ 34:1
VISIBILITY MINIMUM	V	> 1 SM	> 1 SM
RUNWAY SURFACE	GRAVEL	GRAVEL	GRAVEL
PAVEMENT STRENGTH SW,DW,DTW,DDTW 1000lbs	N/A	N/A	N/A
AIRCRAFT APPROACH CATEGORY	A	B	B
AIRPLANE DESIGN GROUP	I	II	II
RUNWAY DIMENSIONS	50' X 1600'	75' X 3200'	75' X 3200'
TRUE BEARING	N40° 13' 54"E	N40° 13' 54"E	N40° 13' 54"E
EFFECTIVE GRADE	0 %	0 %	0 %
TOUCHDOWN ELEVATION (MSL NAVD88)	4.0' / 4.0'	6.0' / 6.0'	6.0' / 6.0'
RUNWAY SAFETY AREA (RSA)	100'x2000'	150'x3800'	150'x3800'
LENGTH BEYOND R/W END	200' / 200'	300' / 300'	300' / 300'
RUNWAY PROTECTION ZONE (RPZ)	250' X 450' X 1000'	500' X 700' X 1000'	500' X 700' X 1000'
RUNWAY OBJECT FREE AREA (OFA)	250'x2480'	500'x3800'	500'x3800'
RUNWAY OBSTACLE FREE ZONE (OFZ)	240'x2400'	250'x3600'	250'x3600'
RUNWAY LIGHTING	NONE	M.I.	M.I.
RUNWAY MARKING TYPE	NONE	NONE	NONE
RUNWAY VISUAL APPROACH AIDS	NONE	PAPI, REIL / PAPI, REIL	PAPI, REIL / PAPI, REIL



WIND DATA TABLE				
RUNWAY	10.5 kt	13 kt	16 kt	20 kt
3/21	74.7%	82.4%	89.6%	–
11/29	66.9%	75.8%	85.0%	–
3/21 & 11/29	86.0%	91.4%	95.51%	–

SOURCE: UNIV. OF ALASKA STATE CLIMATE CENTER

PERIOD: 5/1995 – 5/1997



1/2 1/4 0 1/2 1 MILE

GRAPHIC SCALE

VICINITY MAP

T 5 N, R 88 W, SEC. 34
T 4 N, R 89 W, SEC. 2 & 3
SEWARD MERIDIAN
U.S.G.S. BAIRD INLET (B–7, B–8, C–7, C–8) ALASKA

MODIFICATION TO STANDARDS/ NON STANDARD CONDITIONS			
DESCRIPTION	STANDARD	EXISTING	ULTIMATE
WIND COVERAGE	95%	74.7%	91.4%
RUNWAY TO SEWAGE LAGOON SEPERATION	5000'	2850'	5000'
RUNWAY TO LANDFILL SEPERATION	5000'	4100'	9700'

BY	DATE	REVISION

APPROVED: DATE: 11.4.05
ROBERT CAMPBELL, P.E. PRECONSTRUCTION ENGINEER
RECOMMENDED: DATE: 28 OCT 05
HARVEY M. DOUTHIT, P.E. DESIGN SECTION CHIEF

AIRPORT LAYOUT PLAN CONDITIONAL APPROVAL SUBJECT TO ALP APPROVAL LETTER DATED 12/15/05
FAA AIRSPACE REVIEW NUMBER: 05-AAL-033 NOA
DATE: 12/15/05
FAA, AIRPORTS DIVISION ALASKAN REGION, AAL-612

DRAWING INDEX

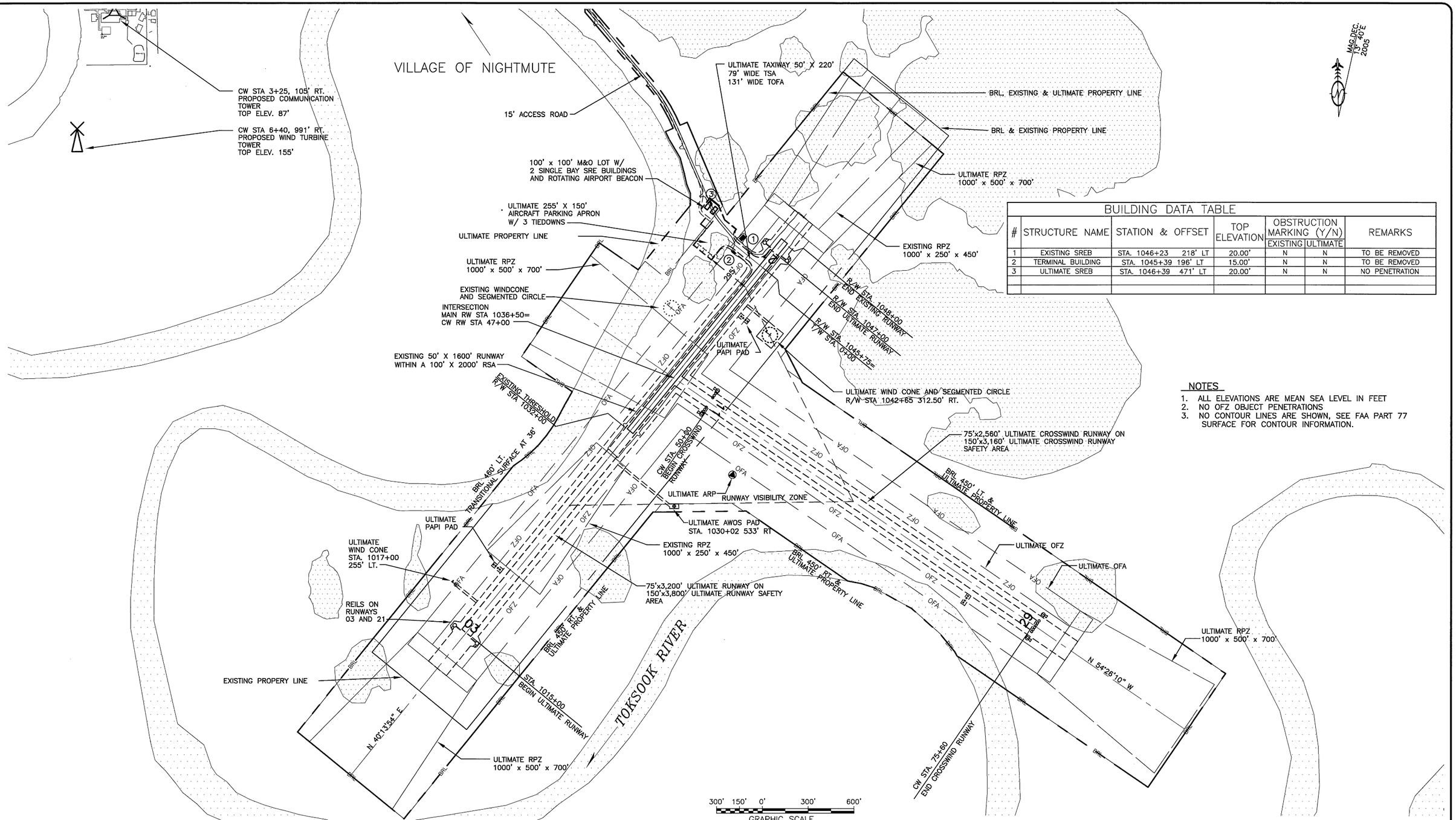
SHT #	TITLE
1	VICINITY MAP AND DATA TABLES
2	AIRPORT LAYOUT PLAN
3	RUNWAY PROFILES
4	INNER APPROACH SURFACE PLAN 03/21
5	INNER APPROACH SURFACE PLAN 11/29
6	FAA PART 77 SURFACES
7	PROPERTY MAP

STATE OF ALASKA
DEPARTMENT OF TRANSPORTATION AND PUBLIC FACILITIES
CENTRAL REGION

NIGHTMUTE AIRPORT
NIGHTMUTE, ALASKA
VICINITY MAP AND DATA TABLES

DATE: 10/25/05
SHEET: 1 OF 7

Designed By: BCJOHNSON
Drawn By: MCFGannon
Checked By: RKIEHL
Date Plotted: 10/25/2005, 11:05 AM
Layout Name: data, sht
File Name: W:\Projects\Nightmute\ALP\Final Drawings\new_alp_base_c4.dwg



BUILDING DATA TABLE

#	STRUCTURE NAME	STATION & OFFSET	TOP ELEVATION	OBSTRUCTION MARKING (Y/N) EXISTING	OBSTRUCTION MARKING (Y/N) ULTIMATE	REMARKS
1	EXISTING SREB	STA. 1046+23 218' LT	20.00'	N	N	TO BE REMOVED
2	TERMINAL BUILDING	STA. 1045+39 196' LT	15.00'	N	N	TO BE REMOVED
3	ULTIMATE SREB	STA. 1046+39 471' LT	20.00'	N	N	NO PENETRATION

NOTES

1. ALL ELEVATIONS ARE MEAN SEA LEVEL IN FEET
2. NO OFZ OBJECT PENETRATIONS
3. NO CONTOUR LINES ARE SHOWN, SEE FAA PART 77 SURFACE FOR CONTOUR INFORMATION.

Date Plotted:	10/25/2005, 11:07 AM
Layout Name:	ALP
File Name:	W:\Projects\Nightmute\ALP\Final Drawings\new_alp_base_c4.dwg
Designed By:	BCJOHNSON
Drawn By:	MGTallman
Checked By:	RKIEHL

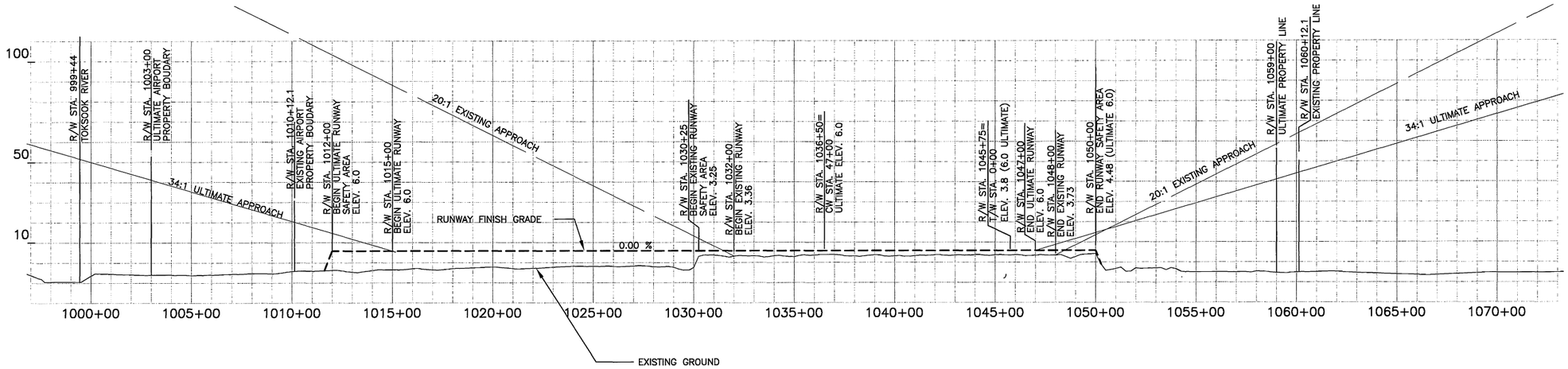
BY	DATE	REVISION

STATE OF ALASKA
DEPARTMENT OF TRANSPORTATION AND PUBLIC FACILITIES
CENTRAL REGION

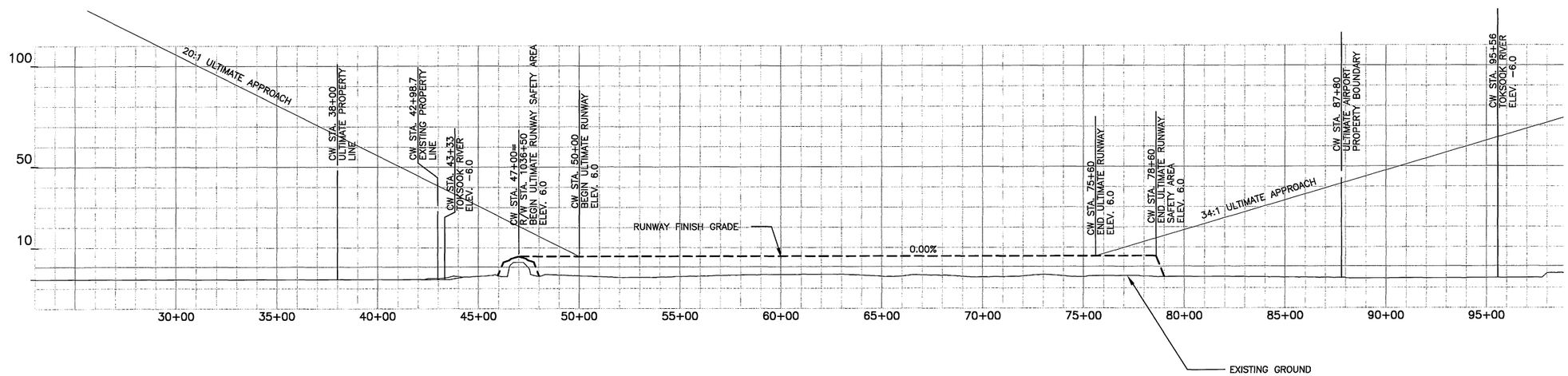
NIGHTMUTE AIRPORT
NIGHTMUTE, ALASKA
AIRPORT LAYOUT PLAN

DATE: 10/25/05

SHEET: 2 OF 7



RUNWAY 03–21



RUNWAY 11–29 (CROSSWIND RUNWAY)

300' 150' 0' 300' 600'
GRAPHIC SCALE

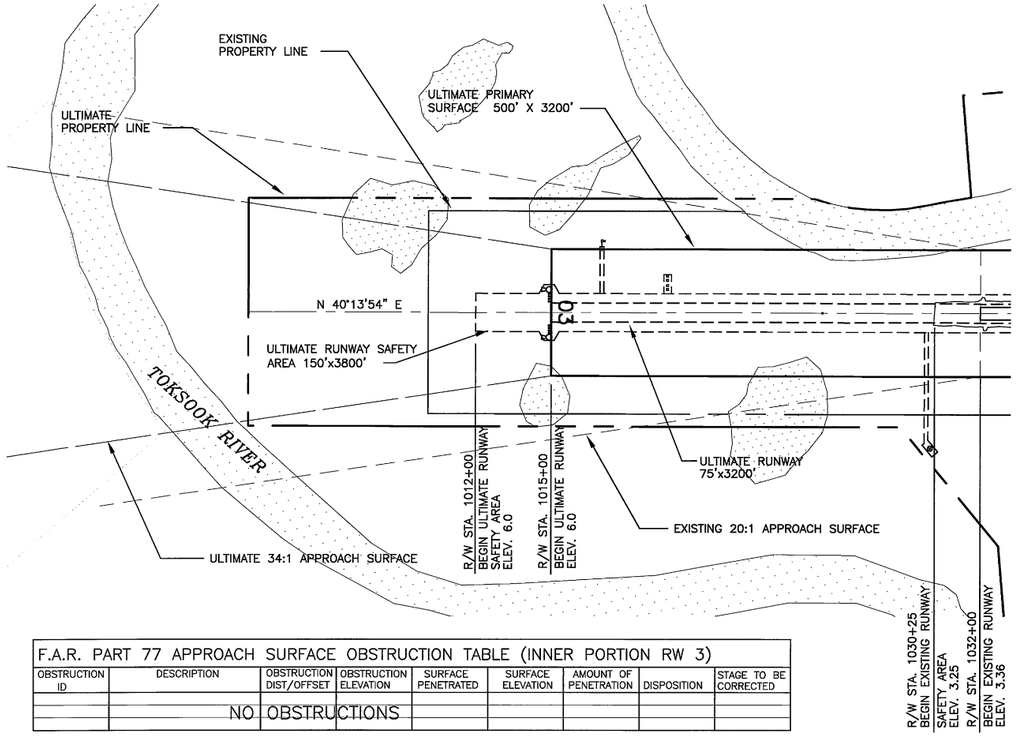
BY	DATE	REVISION

STATE OF ALASKA
DEPARTMENT OF TRANSPORTATION AND PUBLIC FACILITIES
CENTRAL REGION

NIGHTMUTE AIRPORT
NIGHTMUTE, ALASKA
RUNWAY PROFILES

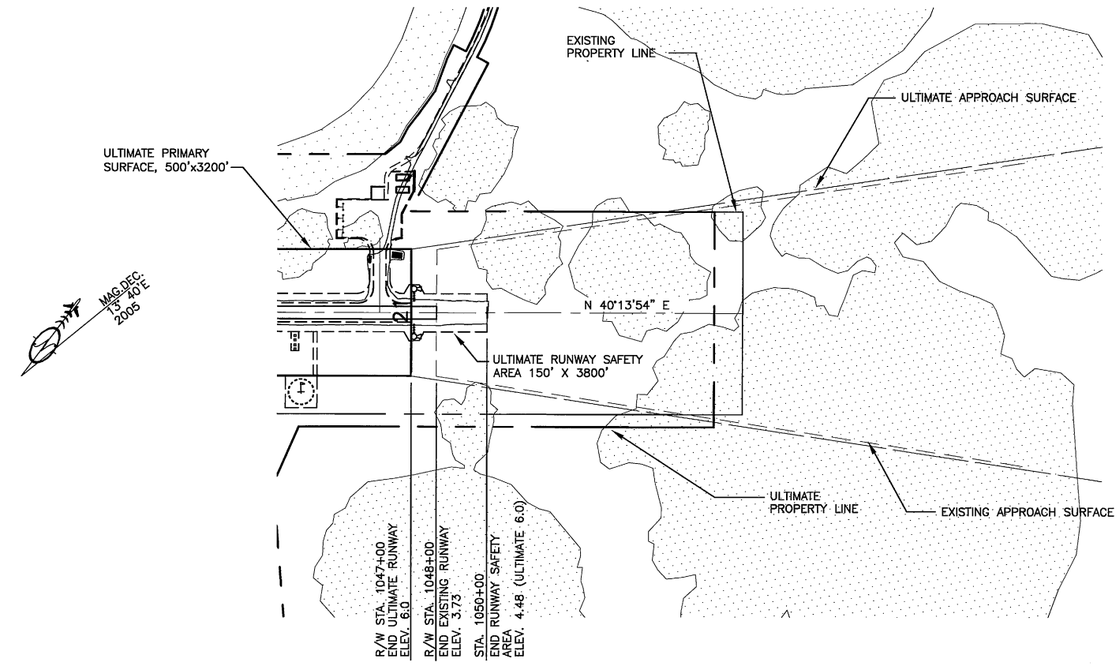
DATE: 10/25/05
SHEET: 3 OF 7

Designed By: BCJOHNSON
Drawn By: MOTGUTTMEN
Checked By: RWEHL
Date Plotted: 10/25/2005, 11:33 AM
Layout Name: Profiles
File Name: W:\Projects\Nightmute\ALP\Final Drawings\new_alp_base_c4.dwg



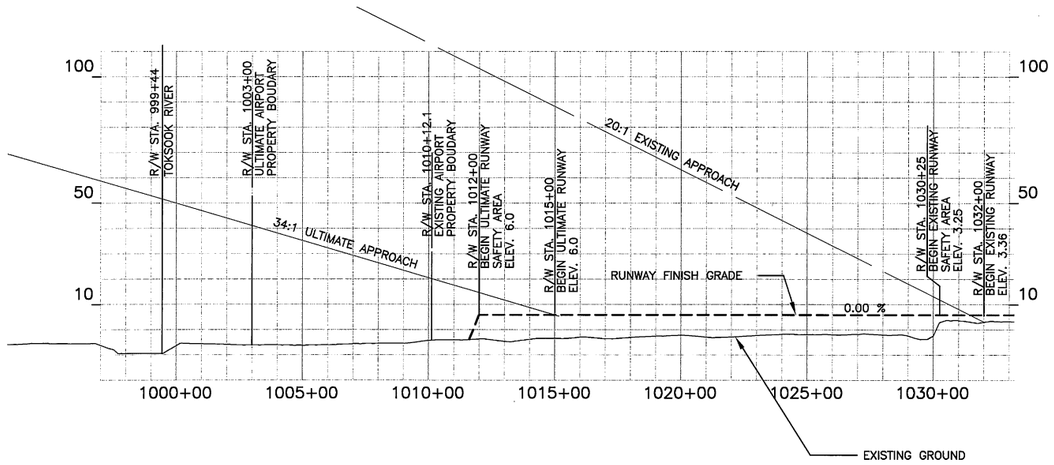
F.A.R. PART 77 APPROACH SURFACE OBSTRUCTION TABLE (INNER PORTION RW 3)

OBSTRUCTION ID	DESCRIPTION	OBSTRUCTION DIST/OFFSET	OBSTRUCTION ELEVATION	SURFACE PENETRATED	SURFACE ELEVATION	AMOUNT OF PENETRATION	DISPOSITION	STAGE TO BE CORRECTED
		NO OBSTRUCTIONS						



F.A.R. PART 77 APPROACH SURFACE OBSTRUCTION TABLE (INNER PORTION RW 21)

OBSTRUCTION ID	DESCRIPTION	OBSTRUCTION DIST/OFFSET	OBSTRUCTION ELEVATION	SURFACE PENETRATED	SURFACE ELEVATION	AMOUNT OF PENETRATION	DISPOSITION	STAGE TO BE CORRECTED
		NO OBSTRUCTIONS						



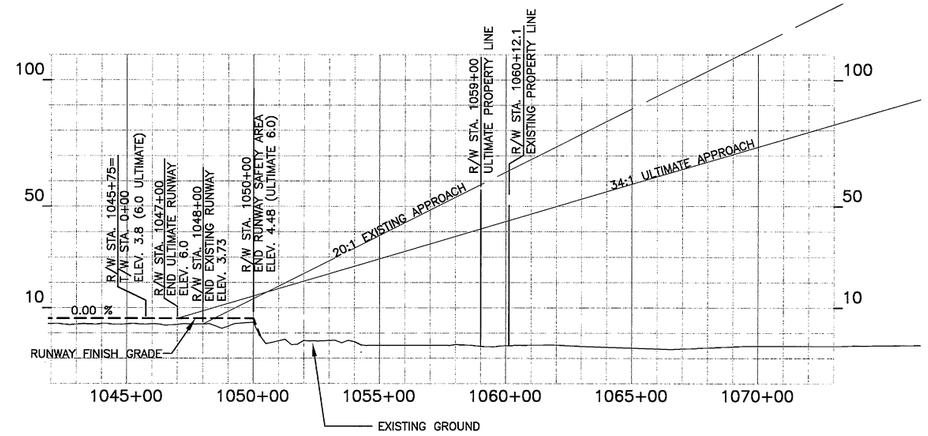
NOTES:

1. THERE ARE NO OBSTRUCTIONS IN THE APPROACH OF RUNWAY 03, THEREFORE THE OBSTRUCTION CLEARANCE SLOPE IS ESTABLISHED AS 50:1 PER ORDER 5010, APPENDIX 1, PARA 57.
2. THERE ARE NO OBJECT PENETRATIONS IN THE THRESHOLD SITING SURFACES OF RUNWAY 03, AS DEFINED IN FAA AC 150/5300-13, chg 9, APPENDIX 2.

300' 150' 0' 300' 600'

GRAPHIC SCALE

HORTIZONTAL TO VERTICAL RATIO= 10:1



NOTES:

1. THE CONTROLLING OBSTRUCTION FOR RUNWAY 21 IS TOOKSOOK HILL STA 1101+91 1074' LT, ELEVATION IS 157'. THE OBSTRUCTION CLEARENCE SLOPE IS ESTABLISHED AS 36:1 PER ORDER 5010, APPENDIX 1, PARA 57
2. THERE ARE NO OBJECT PENETRATIONS IN APPROACH SURFACES OF RUNWAY 21, AS DEFINED IN FAA AC 150/5300-13, chg 9, APPENDIX 2. TOOKSOOK MOUNTAIN PENETRATES THE DEPARTURE SURFACE APPROXIMATELY 85'.

BY	DATE	REVISION

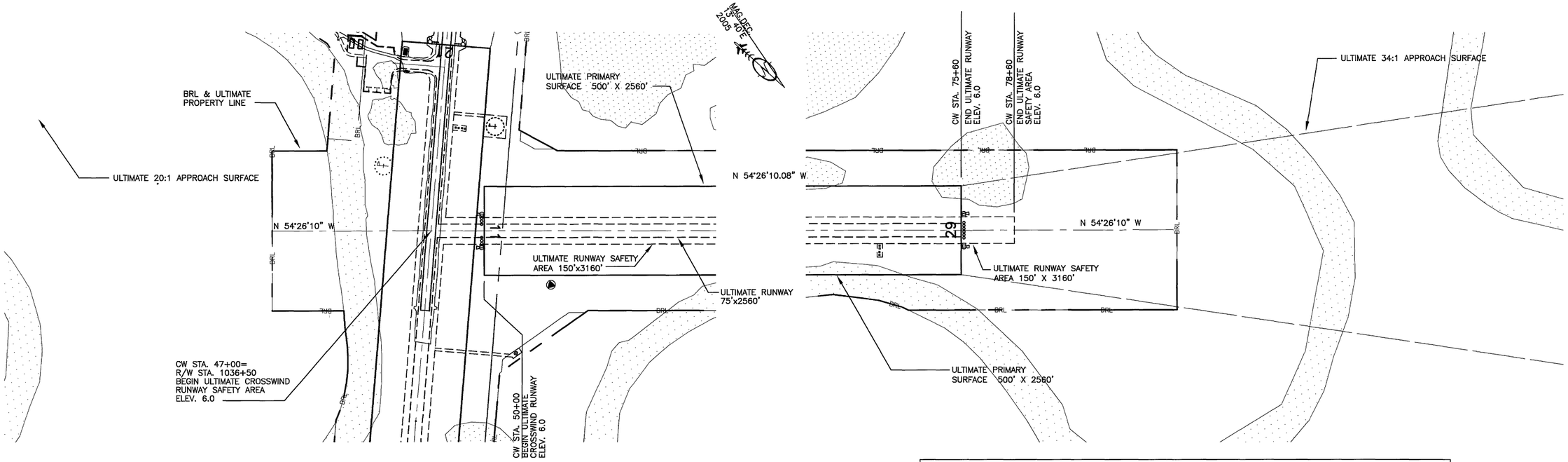
STATE OF ALASKA
DEPARTMENT OF TRANSPORTATION AND PUBLIC FACILITIES
CENTRAL REGION

NIGHTMUTE AIRPORT
NIGHTMUTE, ALASKA
INNER APPROACH SURFACE PLAN
RUNWAY 03/21

DATE: 10/25/05
SHEET: 4 OF 7

Designed By: BCJOHNSON
Drawn By: MGTolman
Checked By: RMIERL

Date Plotted: 10/25/2005, 12:41 PM
Layout Name: INNPP20
File Name: W:\Projects\Nightmute\ALP\Final Drawings\new_alp_base_c4.dwg

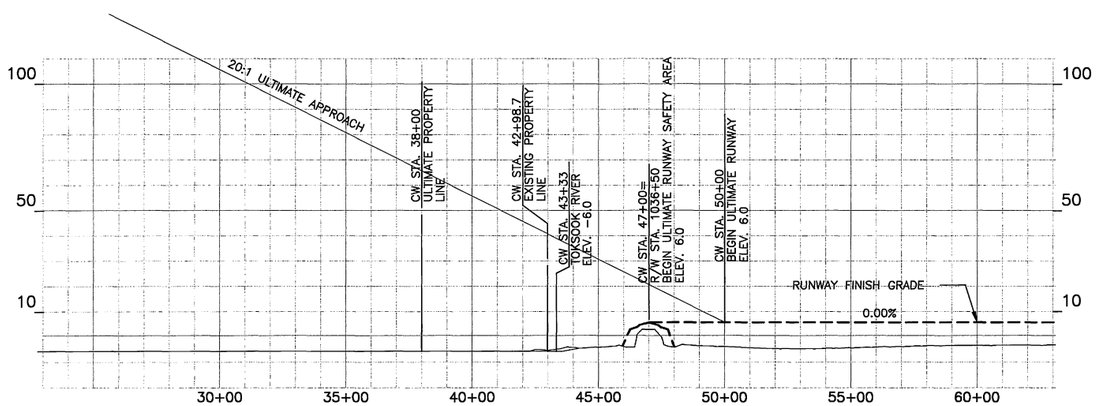


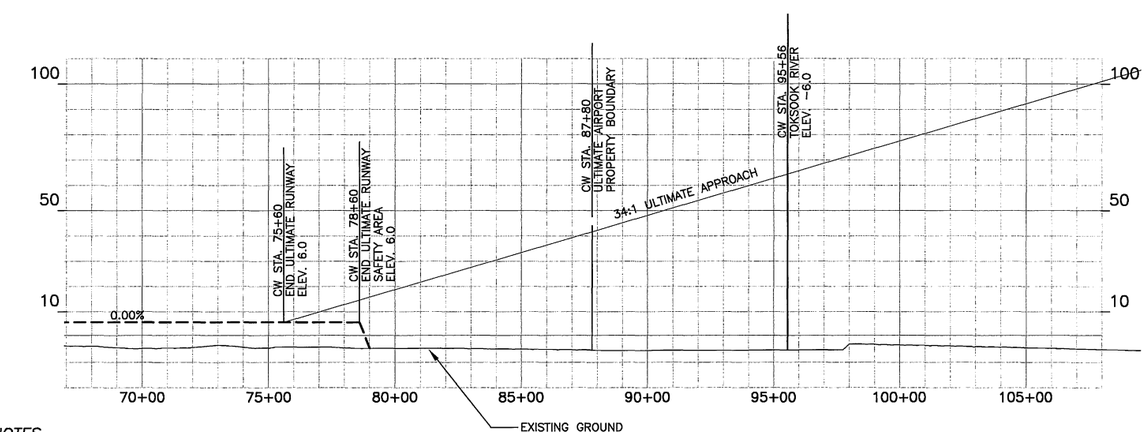
F.A.R. PART 77 APPROACH SURFACE OBSTRUCTION TABLE (INNER PORTION RW 11)

OBSTRUCTION ID	DESCRIPTION	OBSTRUCTION DIST/OFFSET	OBSTRUCTION ELEVATION	SURFACE PENETRATED	SURFACE ELEVATION	AMOUNT OF PENETRATION	DISPOSITION	STAGE TO BE CORRECTED
	NO OBSTRUCTIONS							

F.A.R. PART 77 APPROACH SURFACE OBSTRUCTION TABLE (INNER PORTION RW 29)

OBSTRUCTION ID	DESCRIPTION	OBSTRUCTION DIST/OFFSET	OBSTRUCTION ELEVATION	SURFACE PENETRATED	SURFACE ELEVATION	AMOUNT OF PENETRATION	DISPOSITION	STAGE TO BE CORRECTED
	NO OBSTRUCTIONS							





NOTES

NOTES:

1. THE CONTROLLING OBSTRUCTION FOR RUNWAY 11 IS TOOKSOOK HILL STA –32+08 1522' LT, ELEVATION IS 328'. THE OBSTRUCTION CLEARANCE SLOPE IS ESTABLISHED AS 25:1 PER ORDER 5010, APPENDIX 1, PARA 57
2. THERE ARE NO OBJECT PENETRATIONS IN THE APPROACH SURFACES OF RUNWAY 11, AS DEFINED IN FAA AC 150/5300–13, chg 9, APPENDIX 2. TOOKSOOK MOUNTAIN PENETRATES THE DEPARTURE SURFACE BY APPROXIMATELY 260'.

NOTES:

1. THERE ARE NO OBSTRUCTIONS IN THE APPROACH OF RUNWAY 29, THEREFORE THE OBSTRUCTION CLEARANCE SLOPE IS ESTABLISHED AS 50:1 PER ORDER 5010, APPENDIX 1, PARA 57.
2. THERE ARE NO OBJECT PENETRATIONS IN THE THRESHOLD SITING SURFACES OF RUNWAY 29, AS DEFINED IN FAA AC 150/5300–13, chg 9, APPENDIX 2.

300' 150' 0' 300' 600'
GRAPHIC SCALE
SCALE IN FEET
HORTIZONTAL TO VERTICAL RATIO= 10:1

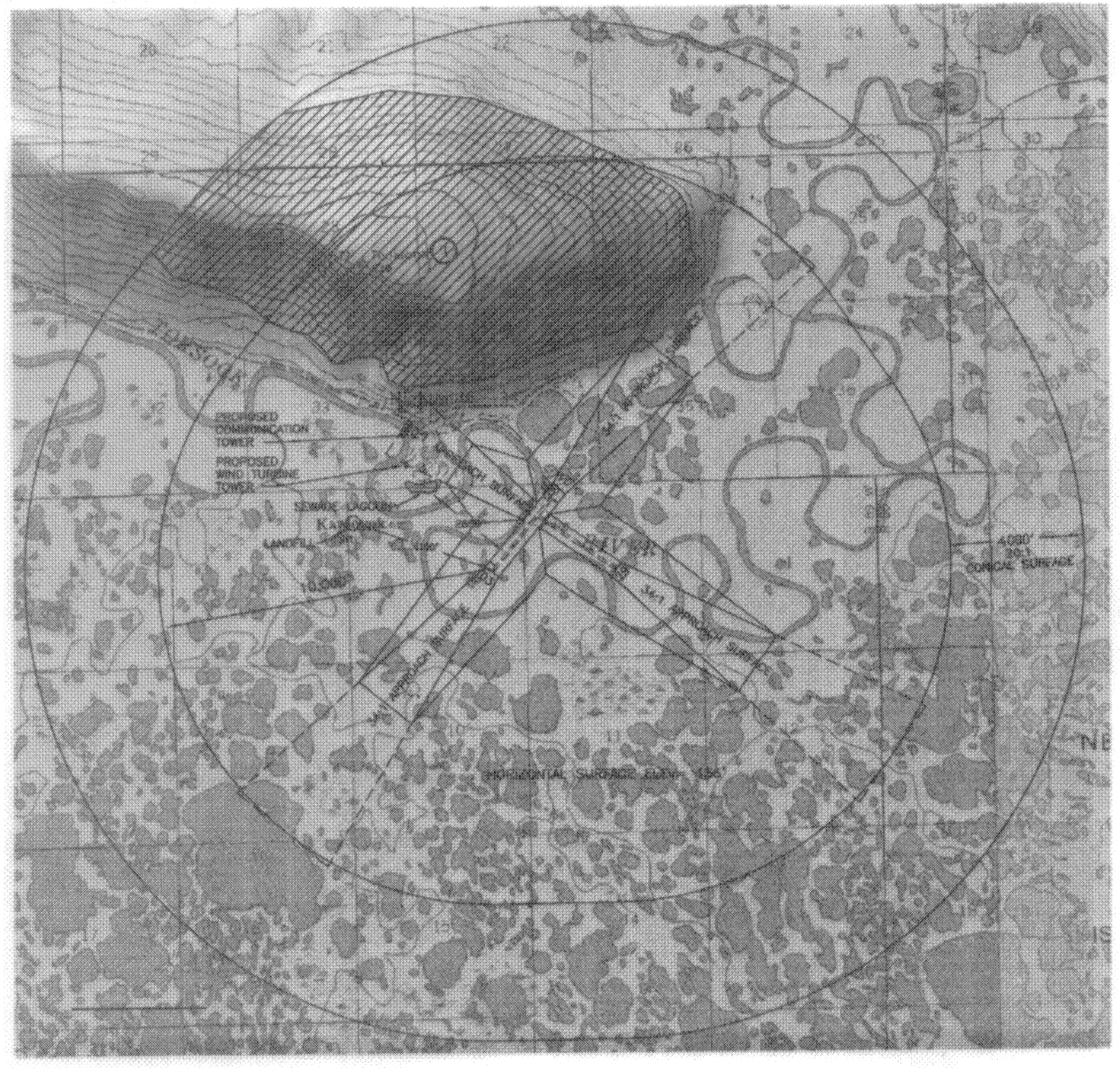
BY	DATE	REVISION

STATE OF ALASKA
DEPARTMENT OF TRANSPORTATION AND PUBLIC FACILITIES
CENTRAL REGION

NIGHTMUTE AIRPORT
NIGHTMUTE, ALASKA
INNER APPROACH SURFACE PLAN
RUNWAY 11/29

DATE: 10/25/05
SHEET: 5 OF 7

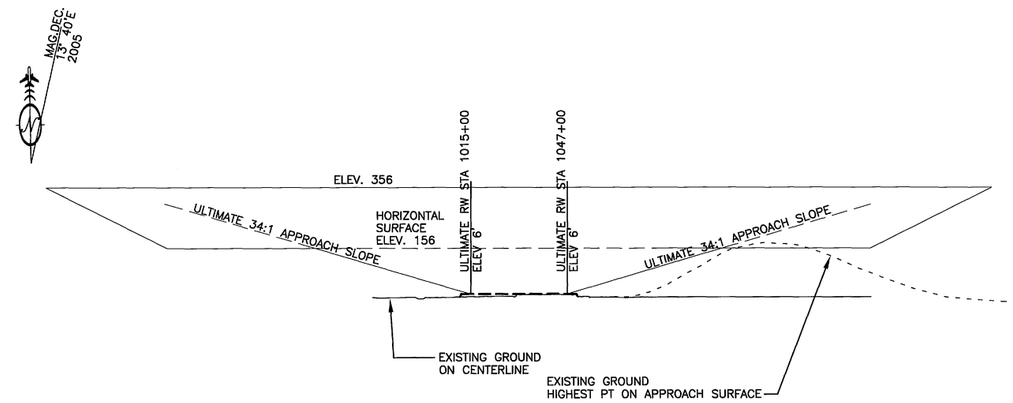
Designed By:	BCJOHNSON
Drawn By:	MJOTolman
Checked By:	RKIEHL
Date Plotted:	10/25/2005, 12:41 PM
Layout Name:	InAPP 29
File Name:	W:\Projects\Nightmute\ALP\Final Drawings\new_alp_base_o4.dwg



OBJECT PENETRATION AREAS (TERRAIN)

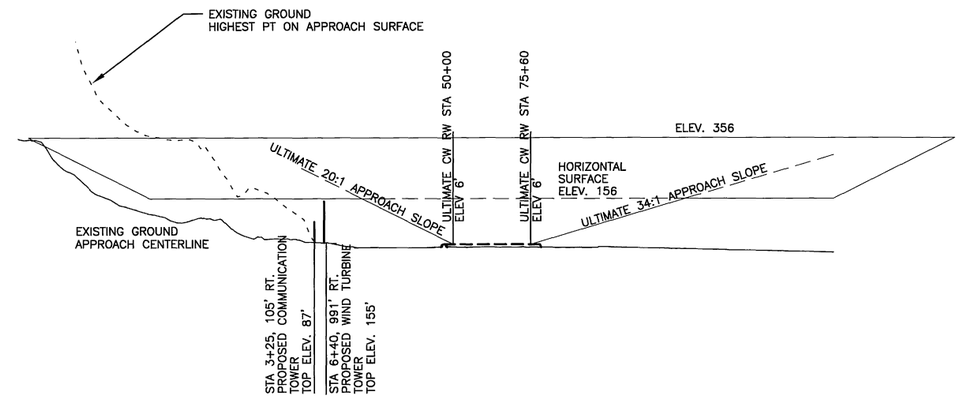
2000' 0' 2000' 4000'

GRAPHIC SCALE
SCALE IN FEET



RUNWAY 03–21 PROFILE

NOT TO SCALE



RUNWAY 11–29 PROFILE

NOT TO SCALE

34:1 APPROACH SURFACE OBSTRUCTION TABLE (OUTER PORTION RW 03/21)

ID #	DESCRIPTION	STATION/ OFFSET	ELEVATION (NAVD88)	SURFACE PENETRATED	SURFACE ELEVATION	AMOUNT PENTRATION	DISPOSTION	STAGE TO CORRECT
1	TERRAIN	1062+89/8825LT	839	HOR/CON	156–356'	0–678'	PERMANENT	N/A

20:1/34:1 APPROACH SURFACE OBSTRUCTION TABLE (OUTER PORTION RW 11/29)

ID #	DESCRIPTION	STATION/ OFFSET	ELEVATION (NAVD88)	SURFACE PENETRATED	SURFACE ELEVATION	AMOUNT PENTRATION	DISPOSTION	STAGE TO CORRECT
1	TERRAIN	-38+81/3348'LT	839	HOR/CON	156–356'	0–678'	PERMANENT	N/A

1. REFER TO INNER PORTION OF THE APPROACH SURFACE DRAWINGS FOR CLOSE IN OBSTRUCTIONS.
2. PRIMARY SURFACE WIDTH 500'.
3. ELEVATION DATUM IS NAVD88.

BY	DATE	REVISION

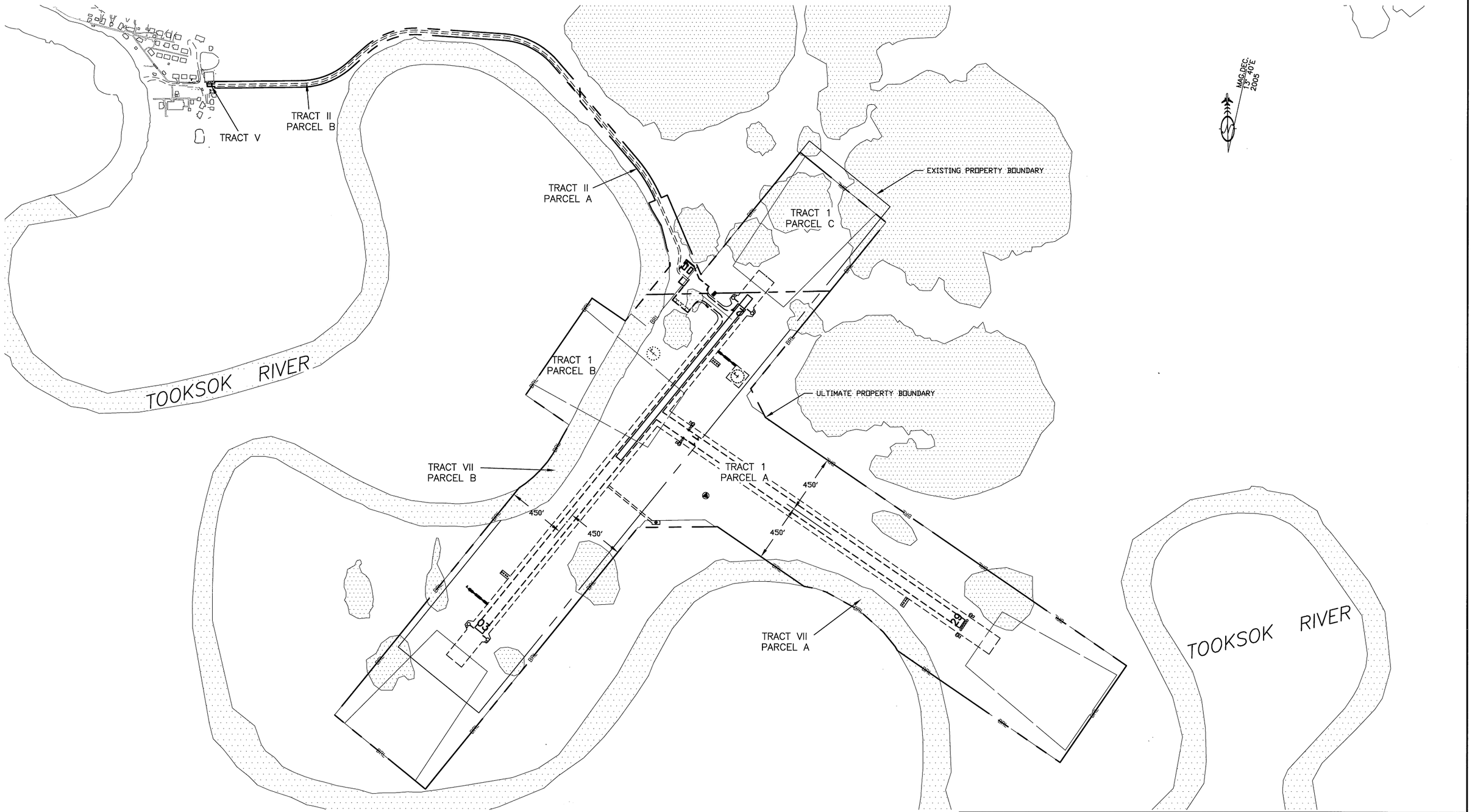
STATE OF ALASKA
DEPARTMENT OF TRANSPORTATION AND PUBLIC FACILITIES
CENTRAL REGION

NIGHTMUTE AIRPORT
NIGHTMUTE, ALASKA
FAA PART 77 SURFACES

DATE: 10/25/05
SHEET: 6 OF 7

Designed By: BCJOHNSON
Drawn By: MGTolman
Checked By: RKIEHL

Date Plotted: 10/25/2005, 2:27 PM
Layout Name: Airspace
File Name: W:\Projects\Nightmute\ALP\Final Drawings\new_alp_base_a4.dwg



Date Plotted:	10/25/2005, 3:01 PM
Layout Name:	Property Map
File Name:	W:\Projects\Nightmute\ALP\Final Drawings\new_clip_base_c4.dwg
Designed By:	BCJOHNSON
Drawn By:	MGrolimon
Checked By:	RWCEHL

PROPERTY STATUS

ID #	INTEREST	GRANTOR	GRANTEE	PARCEL SIZE	DATE ACQUIRED	RECORDED DOC NO.	ACQUIRED AIP NO.
TR 1, PCL A		NUNAKAUIAK YUPIK CORP	STATE OF ALASKA, DOT/PF	158.4 ac	TO BE ACQUIRED		
TR 1, PCL B		NUNAKAUIAK YUPIK CORP	STATE OF ALASKA, DOT/PF	7.31 ac	TO BE ACQUIRED		
TR 1, PCL C		NGTA, INC.	STATE OF ALASKA, DOT/PF	24.4 ac	TO BE ACQUIRED		
TR II, PCL A		NGTA, INC.	STATE OF ALASKA, DOT/PF	1.14 ac	TO BE ACQUIRED		
TR II, PCL B		NGTA, INC.	STATE OF ALASKA, DOT/PF	3.52 ac	TO BE ACQUIRED		
TR V		NGTA, INC.	STATE OF ALASKA, DOT/PF	0.08 ac	TO BE ACQUIRED		
TR VII, PCL A		STATE OF ALASKA, DNR	STATE OF ALASKA, DOT/PF	5.24 ac	TO BE ACQUIRED		
TR VII, PCL B		STATE OF ALASKA, DNR	STATE OF ALASKA, DOT/PF	9.51 ac	TO BE ACQUIRED		

BY	DATE	REVISION

STATE OF ALASKA
DEPARTMENT OF TRANSPORTATION AND PUBLIC FACILITIES
CENTRAL REGION

NIGHTMUTE AIRPORT
NIGHTMUTE, ALASKA
PROPERTY MAP

DATE: 10/25/05

SHEET: 7 OF 7