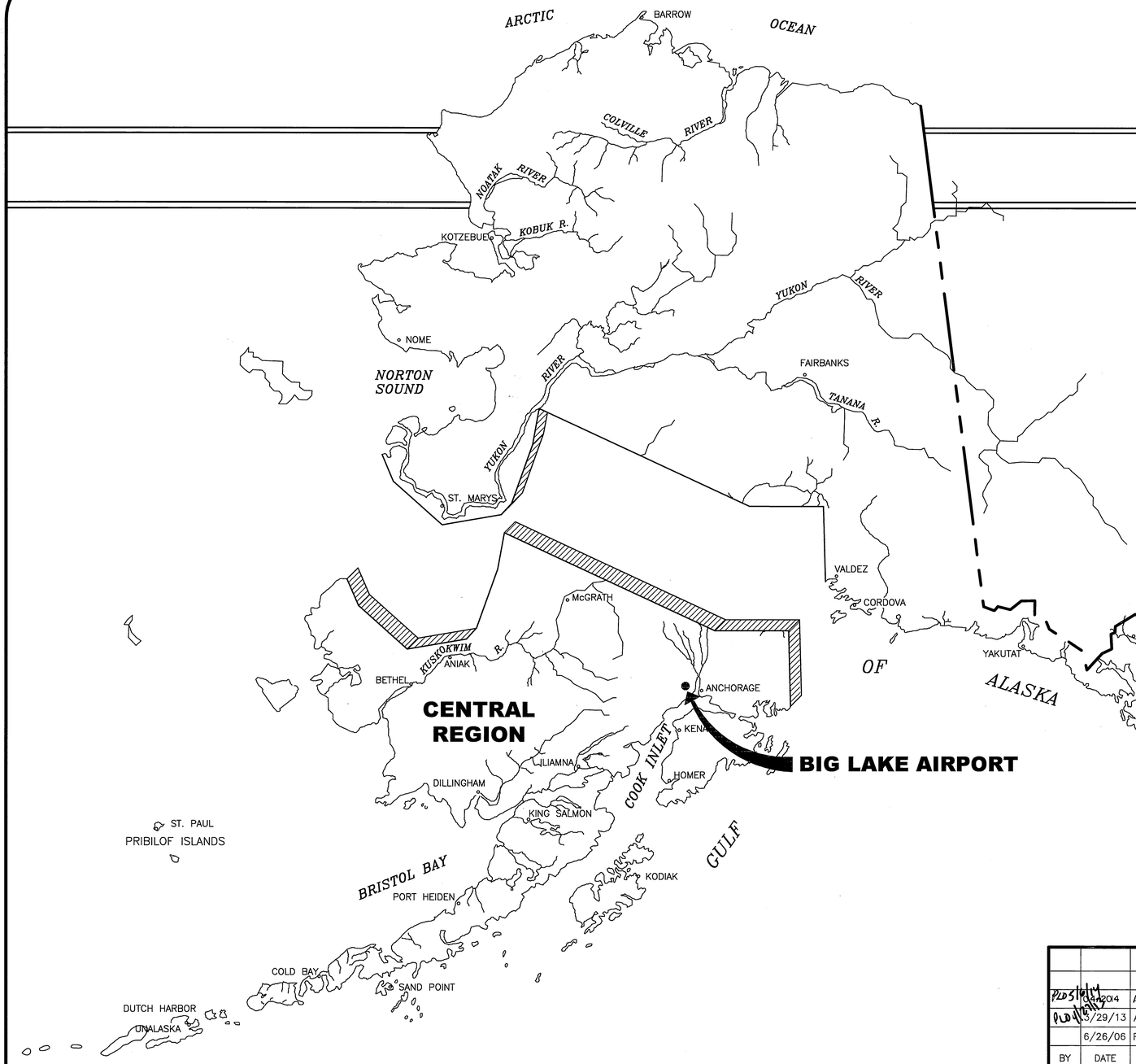


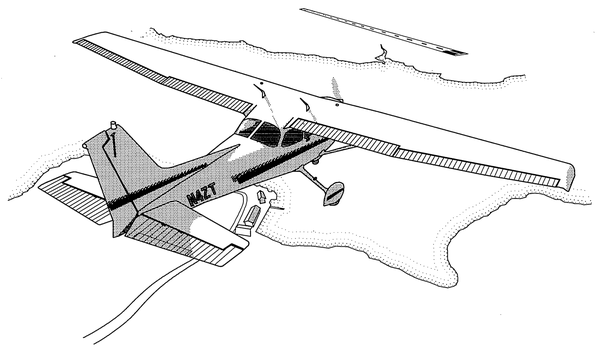
AIRPORT LAYOUT PLAN FOR

BIG LAKE AIRPORT

2003

DRAWING INDEX

1 – COVER SHEET AND INDEX
2 – VICINITY MAP AND DATA TABLES
3 – PLAN AND PROFILE
4 – RUNWAY 07 INNER APPROACH SURFACE PLAN AND PROFILE
5 – RUNWAY 25 INNER APPROACH SURFACE PLAN AND PROFILE
6 – RUNWAY 07 NIGHT APPROACH SITING SURFACE PLAN AND PROFILE
7 – FAA F.A.R. PART 77 SURFACES
8 – PROPERTY PLAN



BY	DATE	REVISIONS
PLD	5/9/14	AS-BUILT RUNWAY DATA
PLD	4/9/13	AS-BUILT WIND CONE
	6/26/06	REVISED RW NUMBERS

ALP UPDATE 26 JUNE 06

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SPONSORED BY
STATE OF ALASKA
DEPARTMENT OF TRANSPORTATION AND PUBLIC FACILITIES
CENTRAL REGION

CONCUR Gordon C. Keith **DATE** 5/13/03
GORDON C. KEITH — **CONSTRUCTION & OPERATIONS DIRECTOR**

APPROVED Steven R. Horn **DATE** 5/13/03
STEVEN R. HORN, P.E. — **REGIONAL PRECONSTRUCTION ENGINEER**

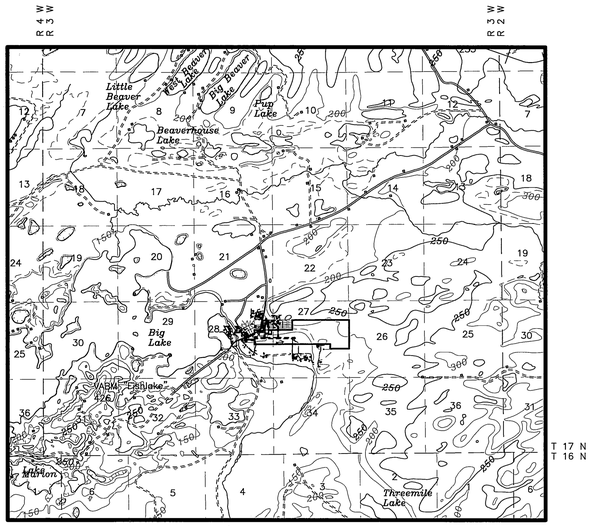
AIRPORT LAYOUT PLAN CONDITIONAL APPROVAL SUBJECT TO ALP APPROVAL LETTER DATED 6/9/03

By: [signature] DATE: 6/9/03
FAA, AIRPORTS DIVISION
ALASKAN REGION, AAL-600

F.A.A. AIRSPACE REVIEW NUMBER:
~~03-AAL-19NRA~~
2014-AAL-8NRA

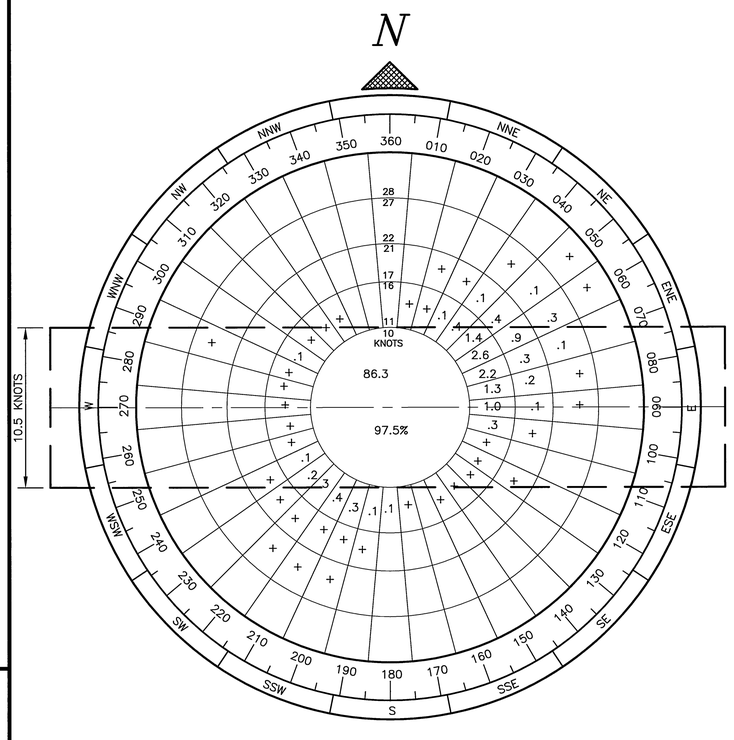
BIG LAKE AIRPORT
AIRPORT LAYOUT PLAN

SHEET 1 OF 8



VICINITY MAP

1"=1 MILE
T 17 N, R 3 W, SEC. 27, 28
SEWARD MERIDIAN
U.S.G.S. ANCHORAGE (C-8), ALASKA



WIND DATA

WIND COVERAGE: SPEED 10.5 KNOTS — R/W 7/25 97.5%

SOURCE: DATA IS FROM WASILLA WHICH IS LOCATED 10 MILES NE OF BIG LAKE
35,375 OBSERVATIONS COMPILED BY ALASKA STATE CLIMATE CENTER, ENRI, UAA
FEBRUARY 19, 2002

PERIOD: 03/03/1998 – 05/31/2000

NON-STANDARD CONDITIONS

ITEM	EXISTING	STANDARD	FUTURE
RUNWAY SAFETY AREA WIDTH	100'	120'	120'
RUNWAY SAFETY AREA BEGINNING AND END (07, 25)	217.5' 147.5'	240'	240'

BASIC DATA TABLE

RUNWAY DATA

ITEM	RUNWAY 7/25 EXISTING	RUNWAY 7/25 FUTURE	RUNWAY / EXISTING	RUNWAY / FUTURE
EFFECTIVE GRADE	0.27%	SAME	–	–
% WIND COVERAGE 10.5 KNOTS	97.5%	SAME	–	–
INSTRUMENT RUNWAY 07	NPI	SAME		
INSTRUMENT RUNWAY 25	VISUAL	SAME	–	–
RUNWAY SURFACE	GRAVEL	GRAVEL	–	–
PAVEMENT STRENGTH lbs.	N/A	N/A	–	–
			–	–
APPROACH SURFACES	20:1	20:1	–	–
VISIBILITY MINIMUM	1 MILE (RW)	1 MILE (RW)	–	–
			–	–
RUNWAY LIGHTING	M.I.	SAME	–	–
RUNWAY MARKING	NONE	NONE	–	–
RUNWAY NAVIGATION AIDS	VOR	SAME	–	–
AIRCRAFT APPROACH CATAGORY	A	SAME	–	–
AIRCRAFT DESIGN GROUP	I	SAME	–	–
RUNWAY SAFETY AREA DIMENSION	100'x2800'	120'x2930'	–	–
RUNWAY DIMENSION	70'x2450'	SAME	–	–
RUNWAY OBJECT FREE AREA DIMENSION	250'x2930'	SAME	–	–
RUNWAY OBSTACLE FREE ZONE DIMENSION	250'x2850'	SAME	–	–
GEODETIC POSITIONS (N.A.D. 83)				
THRESHOLD 07 LAT.	61°32'04.86"N	61°32'04.86"N		
LONG.	149°49'10.43"W	149°49'10.43"W		
THRESHOLD 25 LAT.	61°32'04.86"N	61°32'04.86"N		
LONG.	149°48'19.89"W	149°48'19.89"W		
THRESHOLD LAT.			–	–
LONG.			–	–
THRESHOLD LAT.			–	–
LONG.			–	–

AIRPORT DATA

ITEM	EXISTING	FUTURE
AIRPORT ELEVATION (M.S.L.)	157.5'	SAME
AIRPORT REFERENCE POINT (A.R.P.) LAT.	61°32'04.86"N	
LONG.	149°48'45.16"W	
TAXIWAY LIGHTING	M.I.	M.I.
RAMP LIGHTING	NONE	FLOOD
MEAN MAX. TEMPERATURE, HOTTEST MONTH (JULY)	67°F	SAME
MAGNETIC DECLINATION, YEAR	21°54'E,2001	–0°14' PER YR
AIRPORT REFERENCE CODE	A–I	SAME
AIRPORT AND TERMINAL NAVIGATION AIDS	VOR	SAME
AIRPORT NAVIGATION AIDS	ROT. BEACON	ROT. BEACON

LEGEND

ITEM	EXISTING	FUTURE
PROPERTY LINE		
BUILDING RESTRICTION LINE		
AVIGATION & HAZARD EASEMENT		
AIRPORT REFERENCE POINT (A.R.P.)		
WIND CONE		
CONTOURS	100	100
ROADWAYS		
BUILDINGS		
ROTATING BEACON		
SHORELINE		
ANTENNA		
VASI		
BLUFF		
FENCE		
MALSF		
REIL		

BY	DATE	REVISIONS
	04/2014	AS–BUILT RUNWAY DATA
	3/28/13	AS–BUILT WIND CONE & SEGMENTED CIRCLE
	6/26/06	REVISED RW NUMBERS

BIG LAKE AIRPORT

AIRPORT LAYOUT PLAN

VICINITY MAP AND DATA TABLES

SHEET 2 OF 8

Date Plotted: 04/25/03
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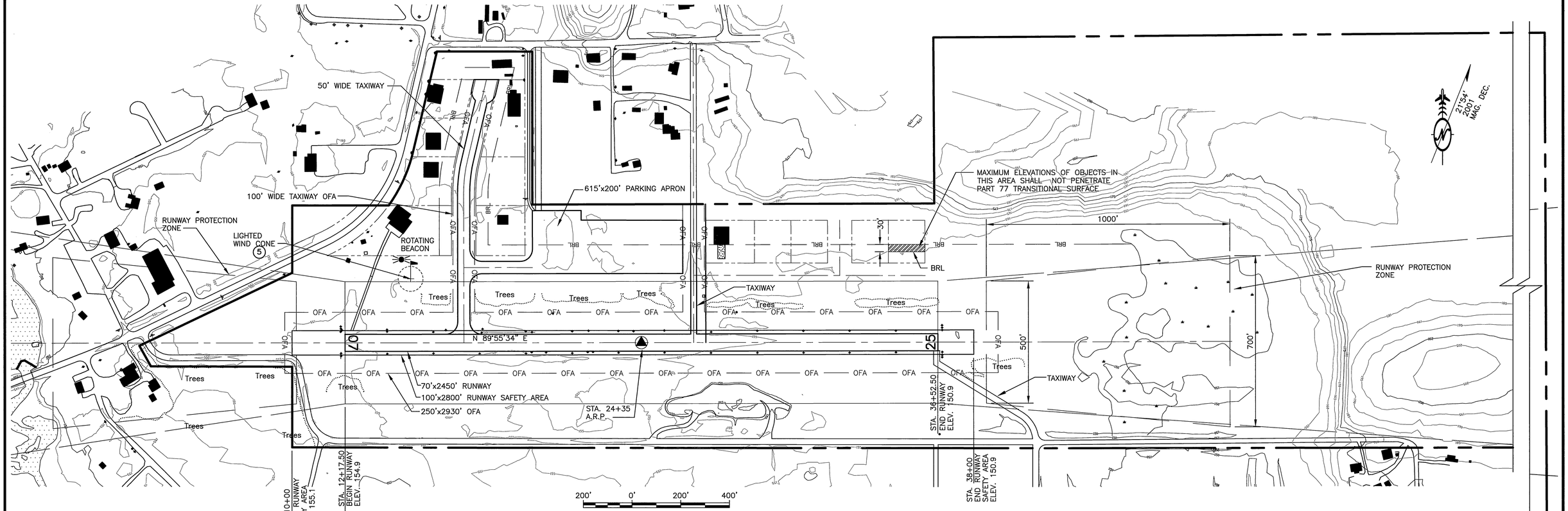

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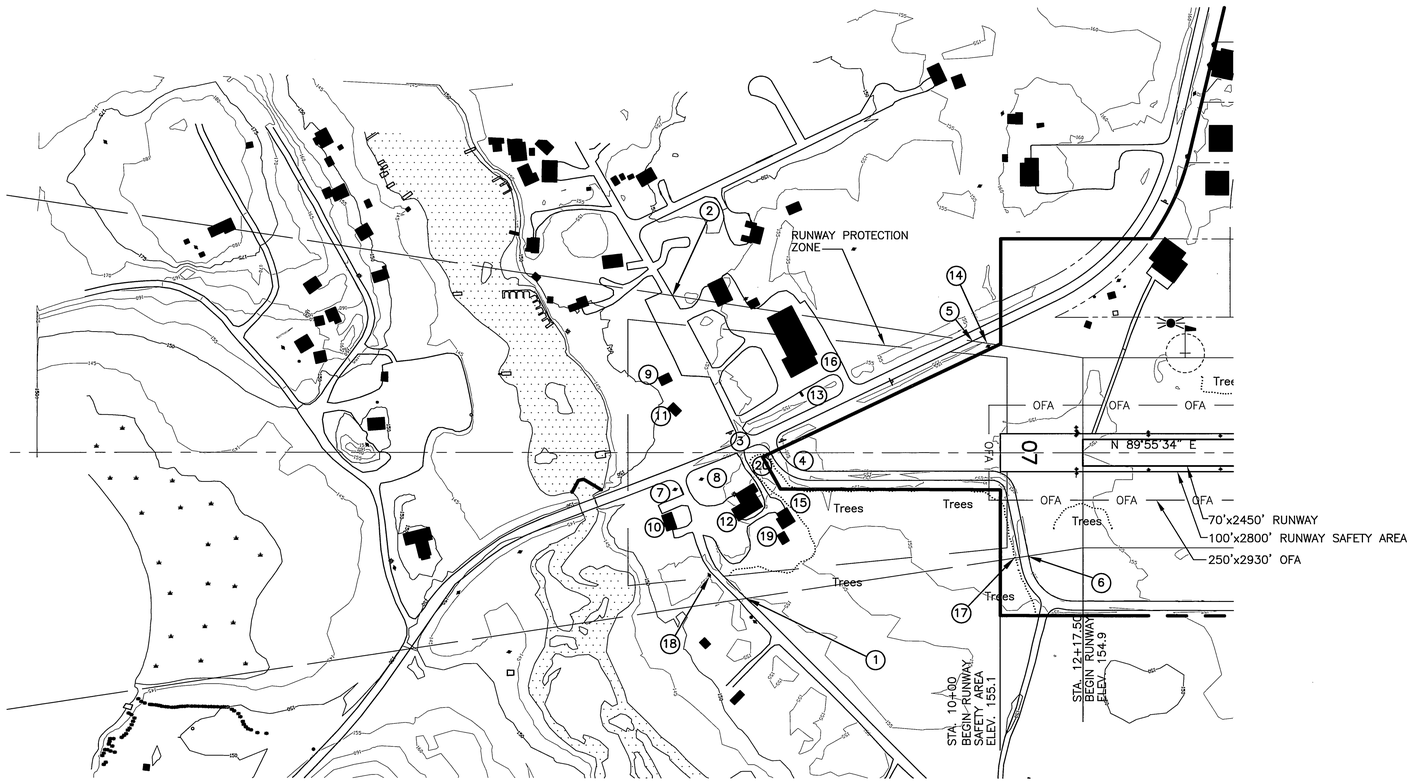
BY	DATE	REVISIONS
	04/2013	AS-BUILT RUNWAY DATA
	3/28/13	AS-BUILT WIND CONE & SEGMENTED CIRCLE
	6/26/06	REVISED RW NUMBERS, ADDED HEIGHT RESTRICTIONS

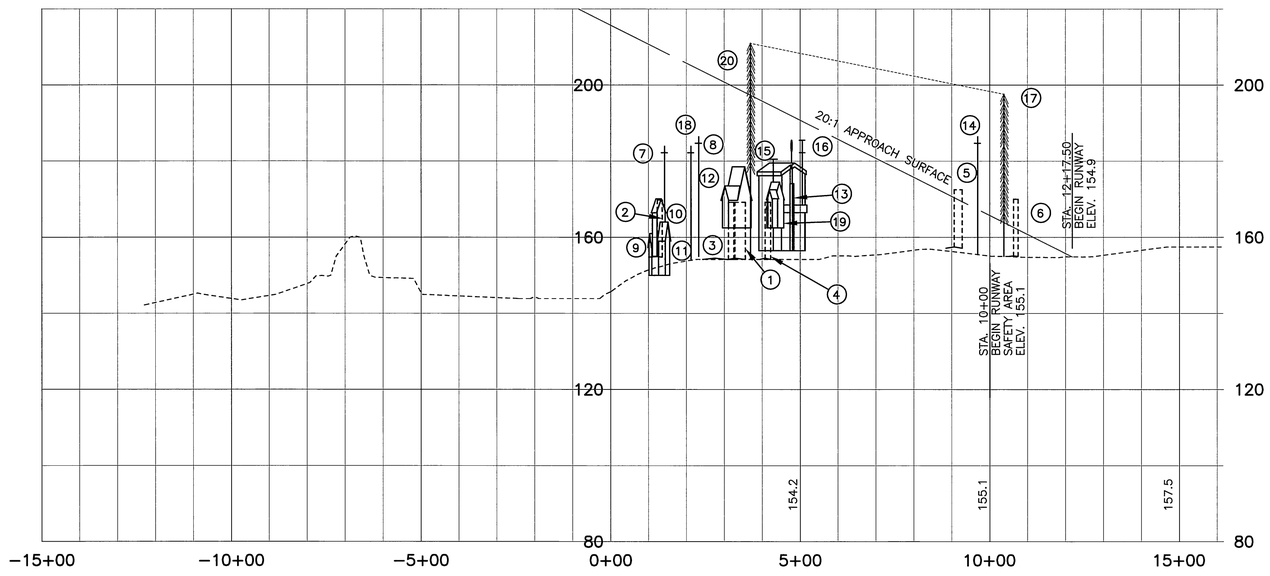
BIG LAKE AIRPORT

AIRPORT LAYOUT PLAN

PLAN AND PROFILE

SHEET 3 OF 8





07 EXISTING APPROACH SURFACE DATA

ITEM No.	STATION	OFFSET	OBJECT	OBJECT USE	OBJECT ELEV.	IMAGIN SURF. ELEV.	VERTICAL CLEARANCE	AMOUNT OF PENETRATION	DISPOSITION
1	3+30.10	383.1' RT	ROAD		169.2'	199.3'	* 29.3'	NONE	NO ACTION
2	1+35.71	412.3' LT	ROAD		169.8'	209.0'	* 39.2'	NONE	NO ACTION
3	3+24.74	0'	ROAD		169.2'	199.5'	* 30.3'	NONE	NO ACTION
4	4+21.08	0'	ROAD		169.2'	194.7'	* 25.5'	NONE	NO ACTION
5	9+27.01	293.6' LT	ROAD		172.5'	169.4'	* NONE	3.1'	NO ACTION
6	10+74.35	271.47' RT	ROAD		169.2'	162.1'	* NONE	7.1'	NO ACTION
7	1+42.24	97.1' RT	UTILITY POLE		183.9'	208.6'	24.7'	NONE	NO ACTION
8	2+11.72	70.0' RT	UTILITY POLE		183.9'	205.2'	21.3'	NONE	NO ACTION
9	1+29.40	199.7' LT	BUILDING	PICNIC SHELTER	163.0'	209.3'	46.3'	NONE	NO ACTION
10	1+33.41	201.8' RT	BUILDING	RESIDENCE	170.1'	209.1'	39.0'	NONE	NO ACTION
11	1+51.16	103.13' LT	BUILDING	PARK RESTROOMS	164.0'	208.2'	44.2'	NONE	NO ACTION
12	3+53.31	153.2' RT	BUILDING	CHURCH	170.5'	198.1'	27.6'	NONE	NO ACTION
13	4+80.71	150.5' LT	SIGN		174.1'	191.7'	17.6'	NONE	NO ACTION
14	9+68.18	280.4' LT	UTILITY POLE		186.4'	167.4'	NONE	19.0'	NO ACTION
15	4+23.77	153.4' RT	BUILDING	RESIDENCE	** 180.5'	194.6'	14.1'	NONE	NO ACTION
16	4+80.71	150.5' LT	BUILDING	HOTEL	** 185.5'	191.7'	6.24'	NONE	NO ACTION
17	10+38.92	276.8' RT	TREELINE		197.6'	163.8'	NONE	33.8'	NO ACTION
18	2+32.13	332.2' RT	UTILITY POLE		186.4'	204.2'	17.8'	NONE	NO ACTION
19	4+36.11	219.3' RT	BUILDING	CHURCH OFFICE	170.5'	194.0'	23.5'	NONE	NO ACTION
20	3+68.70	29.5' RT	TREELINE		211.3'	197.3'	NONE	14.0'	NO ACTION

* CLEARANCE FROM 15' VEHICLE ON ROAD.
** HIGH POINT IS ANTENNA ON ROOF.

OBJECT ELEVATIONS ARE ESTIMATED

21°54' 2001 MAG. DEC.

200' 0' 200' 400'

BY	DATE	REVISIONS
	04/2013	AS-BUILT RUNWAY DATA
	3/28/13	AS-BUILT WIND CONE & SEGMENTED CIRCLE
	6/26/06	REVISED RW NUMBERS

BIG LAKE AIRPORT

AIRPORT LAYOUT PLAN
RUNWAY 07 INNER APPROACH
SURFACE PLAN AND PROFILE

SHEET 4 OF 8

Date Plotted: 04/25/03
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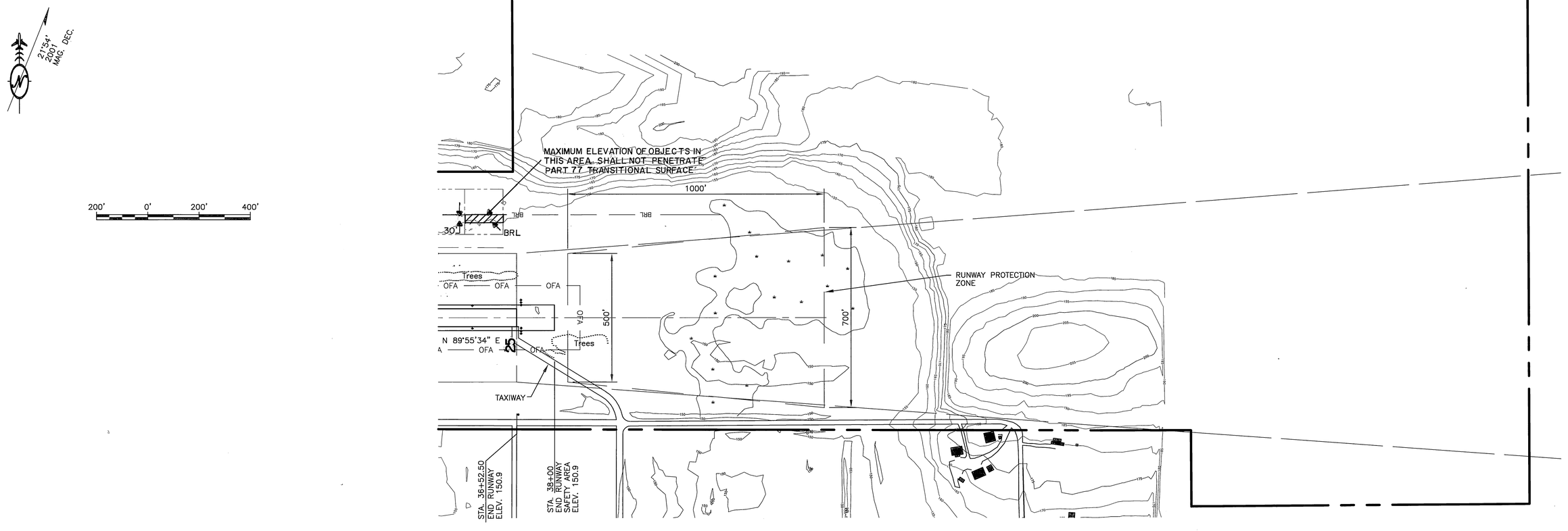

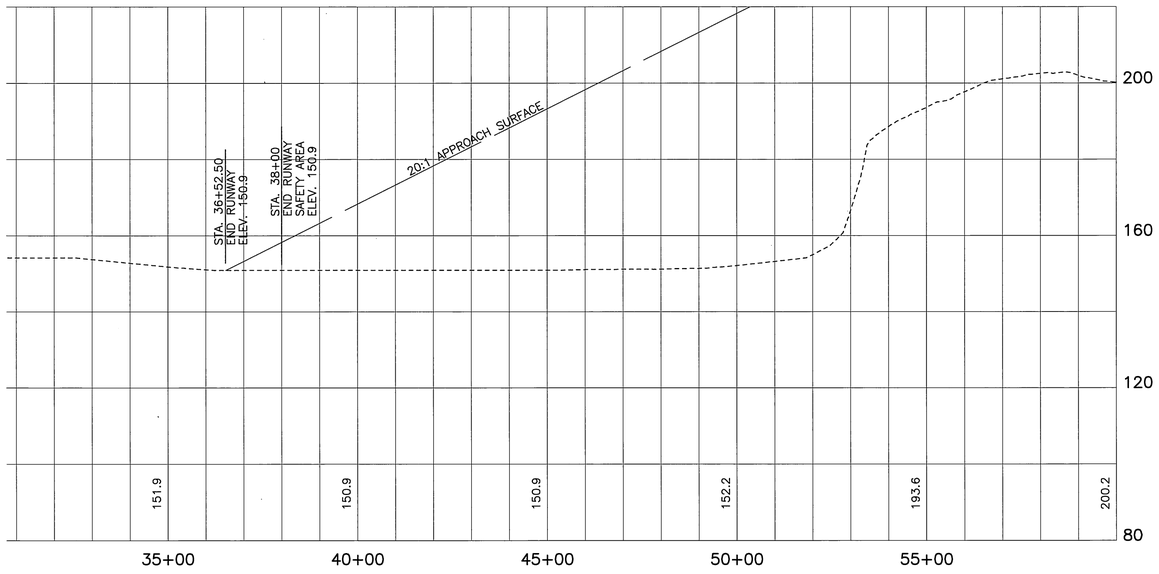

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AIRPORT LAYOUT PLAN CONDITIONAL APPROVAL 6/9/03
SUBJECT TO ALP APPROVAL LETTER DATED _____

By: _____ DATE: 6/9/03
FAA AIRPORTS DIVISION
ALASKAN REGION, AAL-600

F.A.A. AIRSPACE REVIEW NUMBER: 03-AAL-19NRA

BY	DATE	REVISIONS
RK	6/26/06	REV. RW NUMBERS, ADDED HEIGHT RESTRICTION
DTL	7/11/06	FAA

STATE OF ALASKA
DEPARTMENT OF TRANSPORTATION AND PUBLIC FACILITIES
CENTRAL REGION

APPROVED: _____
STEPHEN M. RYAN, P.E. — DESIGN SECTION CHIEF

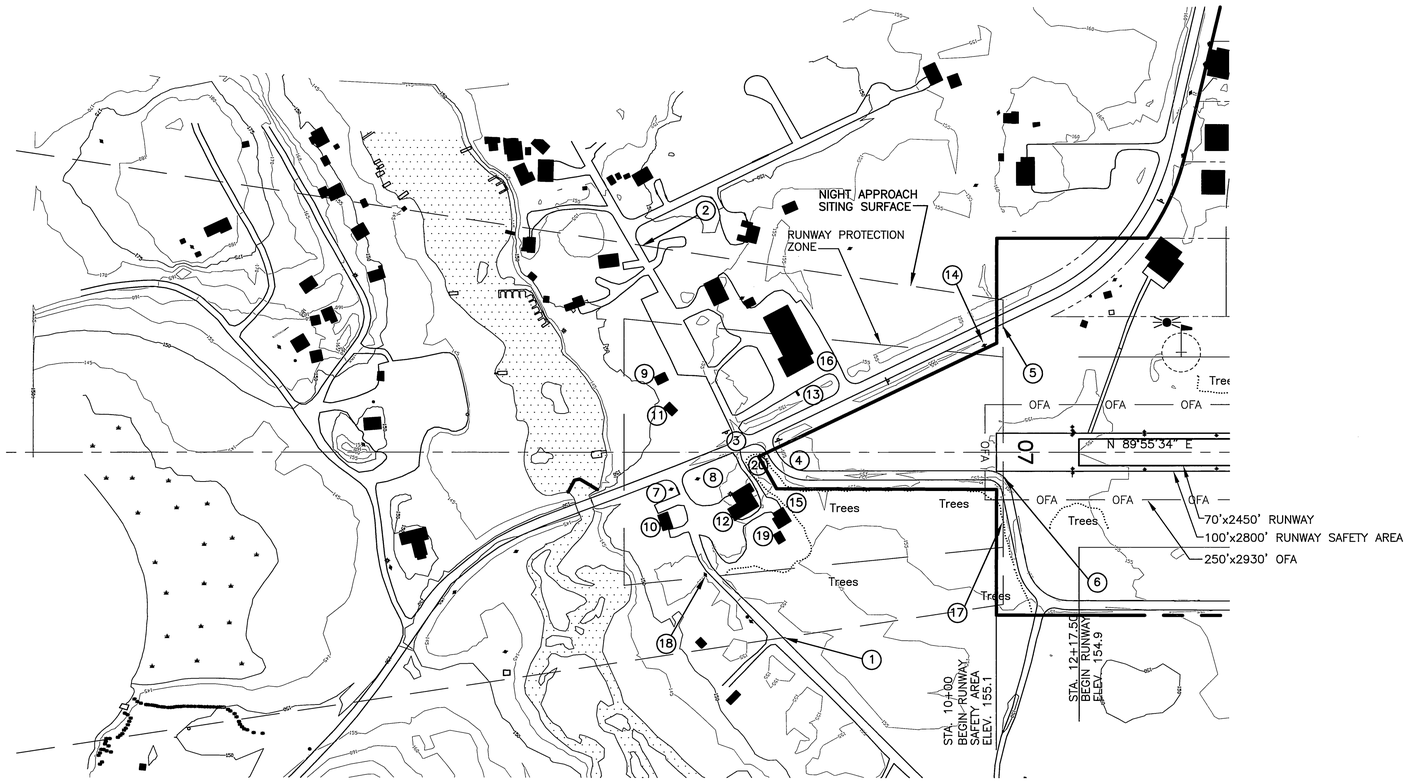
APPROVED: _____ for
JOHN G WAHL, P.E. — PROJECT MANAGER

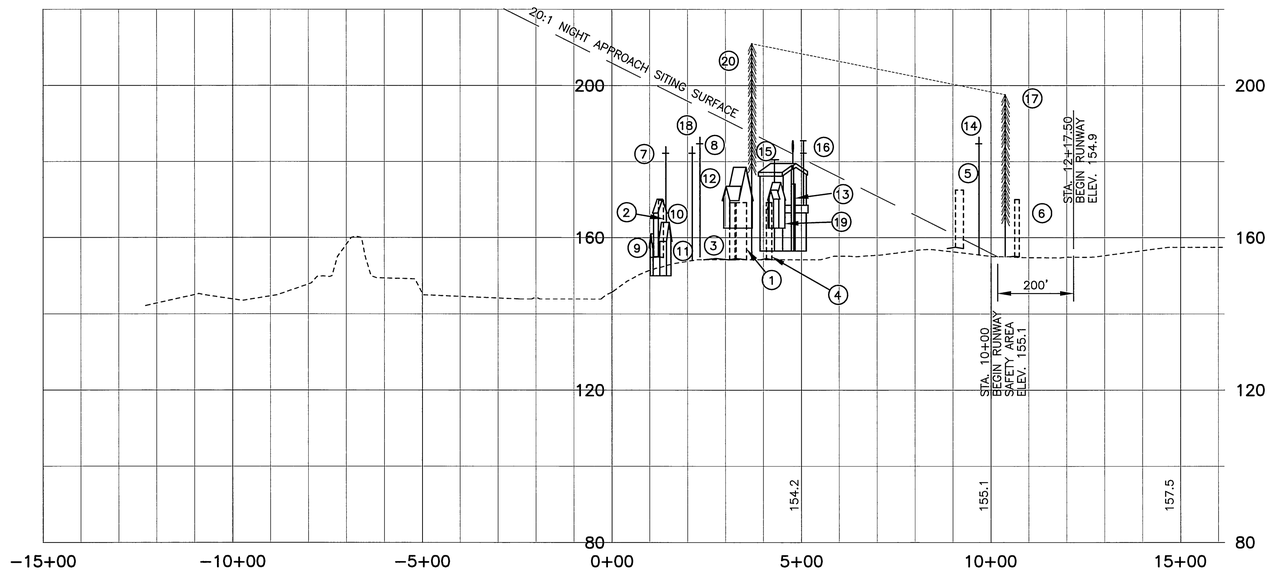
DATE 5/12/03
DESIGN R.K.
DRAWN _____
CHECKED R.K.

BIG LAKE AIRPORT

AIRPORT LAYOUT PLAN
RUNWAY 25 INNER APPROACH
SURFACE PLAN AND PROFILE

SHEET 5 OF 8



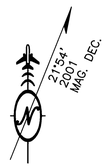


07 EXISTING NIGHT APPROACH SITING SURFACE DATA

ITEM No.	STATION	OFFSET	OBJECT	OBJECT USE	OBJECT ELEV.	IMAGIN SURF. ELEV.	VERTICAL CLEARANCE	AMOUNT OF PENETRATION	DISPOSITION
1	4+37.15	487.1' RT.	ROAD		169.2'	183.9'	* 14.7'	NONE	NO ACTION
2	0+49.29	543.73' LT	ROAD		169.8'	203.3'	* 33.5'	NONE	NO ACTION
3	3+24.74	0'	ROAD		169.2'	189.5'	* 20.3'	NONE	NO ACTION
4	4+21.08	0'	ROAD		169.2'	184.7'	* 15.5'	NONE	NO ACTION
5	10+17.5	336.9' LT	ROAD		172.5'	154.9'	* NONE	17.6'	NO ACTION
6	10+17.5	63.2' RT	ROAD		169.2'	154.9'	* NONE	15.0'	NO ACTION
7	1+42.24	97.1' RT	UTILITY POLE		183.9'	198.6'	14.7'	NONE	NO ACTION
8	2+11.72	70.0' RT	UTILITY POLE		183.9'	195.2'	11.3'	NONE	NO ACTION
9	1+29.40	199.7' LT	BUILDING	PICNIC SHELTER	163.0'	199.3'	36.3'	NONE	NO ACTION
10	1+33.41	201.8' RT	BUILDING	RESIDENCE	170.1'	199.1'	29.0'	NONE	NO ACTION
11	1+51.16	103.13' LT	BUILDING	PARK RESTROOMS	164.0'	198.2'	34.2'	NONE	NO ACTION
12	3+53.31	153.2' RT	BUILDING	CHURCH	170.5'	188.1'	17.6'	NONE	NO ACTION
13	4+80.71	150.5' LT	SIGN		174.1'	184.7'	7.6'	NONE	NO ACTION
14	9+68.18	280.4' LT	UTILITY POLE		186.4'	157.4'	NONE	29.0'	NO ACTION
15	4+23.77	153.4' RT	BUILDING	RESIDENCE	** 180.5'	184.6'	4.1'	NONE	NO ACTION
16	4+80.71	150.5' LT	BUILDING	HOTEL	** 185.5'	181.7'	NONE	3.8'	NO ACTION
17	10+17.5	184.6' RT	TREELINE		197.6'	154.2'	NONE	43.4'	NO ACTION
18	2+32.13	332.2' RT	UTILITY POLE		186.4'	194.2'	7.8'	NONE	NO ACTION
19	4+36.11	219.3' RT	BUILDING	CHURCH OFFICE	170.5'	184.0'	13.5'	NONE	NO ACTION
20	3+68.70	29.5' RT	TREELINE		211.3'	187.3'	NONE	24.0'	NO ACTION

* CLEARANCE FROM 15' VEHICLE ON ROAD.
** HIGH POINT IS ANTENNA ON ROOF.

OBJECT ELEVATIONS ARE ESTIMATED



200' 0' 200' 400'

NOTE

PLAN PREPARED IN ACCORDANCE WITH FAA AC 150/5300-13, APPENDIX 2 TO ILLUSTRATE PENETRATIONS TO THE THRESHOLD SITING SURFACE FOR STRAIGHT -IN NIGHT INSTRUMENT APPROACHES.

BY	DATE	REVISIONS
	04/2013	AS-BUILT RUNWAY DATA
	3/28/13	AS-BUILT WIND CONE & SEGMENTED CIRCLE
	6/26/06	REVISED RW NUMBERS

BIG LAKE AIRPORT

AIRPORT LAYOUT PLAN
RUNWAY 07 NIGHT APPROACH
SITING SURFACE PLAN AND PROFILE

SHEET 6 OF 8

Date Plotted: 04/28/03
Plot Ratio and Layout: 1=1, layout=06-night approach siting
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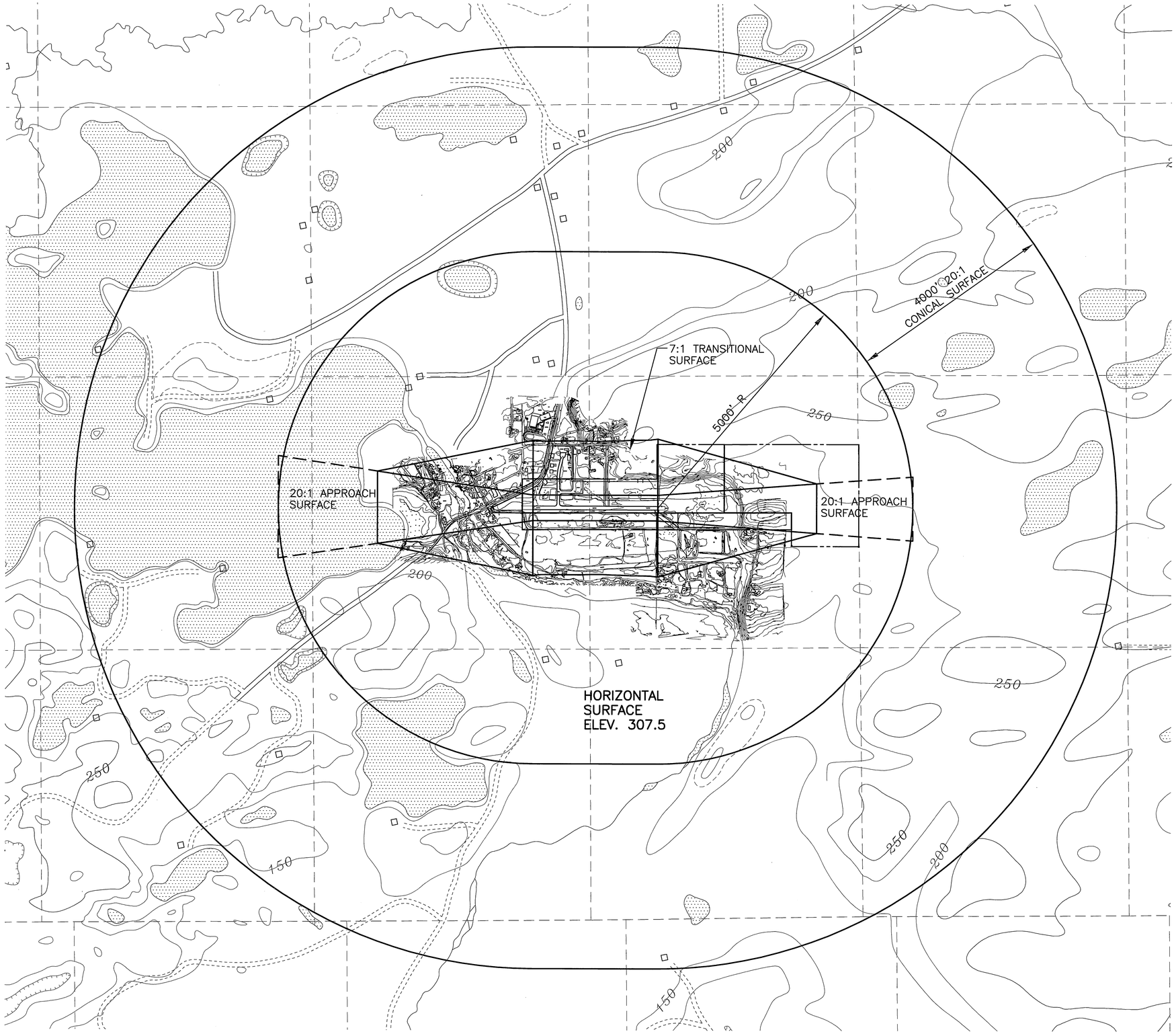


1000' 500' 0' 500' 1000' 1500' 2000'
SCALE IN FEET

LEGEND

WATER SURFACE

BY	DATE	REVISIONS

DATE 5/14/03
DESIGN
DRAWN
CHECKED

OBSTRUCTION DATA TABLE

NUMBER	PENETRATION DISTANCE		DESCRIPTION
	DISTANCE	SURFACE PENETRATED	
			REFER TO INNER APPROACH SURFACE PLAN AND PROFILE SHEETS

DISPOSITION

F.A.A. AIRSPACE REVIEW NUMBER:
03-AAL-19NRA

AIRPORT LAYOUT PLAN CONDITIONAL APPROVAL SUBJECT TO ALP APPROVAL LETTER DATED 6/4/03

By: [signature] DATE: 6/5/03
FAA, AIRPORTS DIVISION
ALASKAN REGION, AAL-600

STATE OF ALASKA
DEPARTMENT OF TRANSPORTATION AND PUBLIC FACILITIES
CENTRAL REGION

APPROVED: [signature] DESIGN SECTION CHIEF
STEPHEN M. RYAN, P.E.
APPROVED: [signature] PROJECT MANAGER
JOHN G. WAHL, P.E.

BIG LAKE AIRPORT

AIRPORT LAYOUT PLAN

FAA F.A.R. PART 77 SURFACES

SHEET 7 OF 8

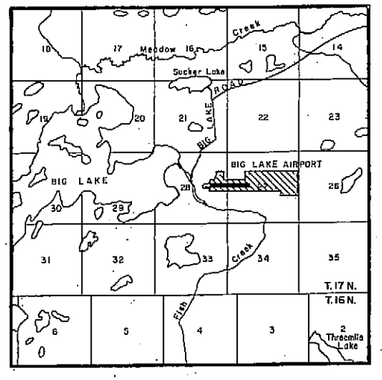
Designed By:	The Engineer
Checked By:	Checker
Drawn By:	No one
Date Plotted:	04/25/03
Plot Ratio and Layout:	1=1, layout=
File:	g:\data\

N

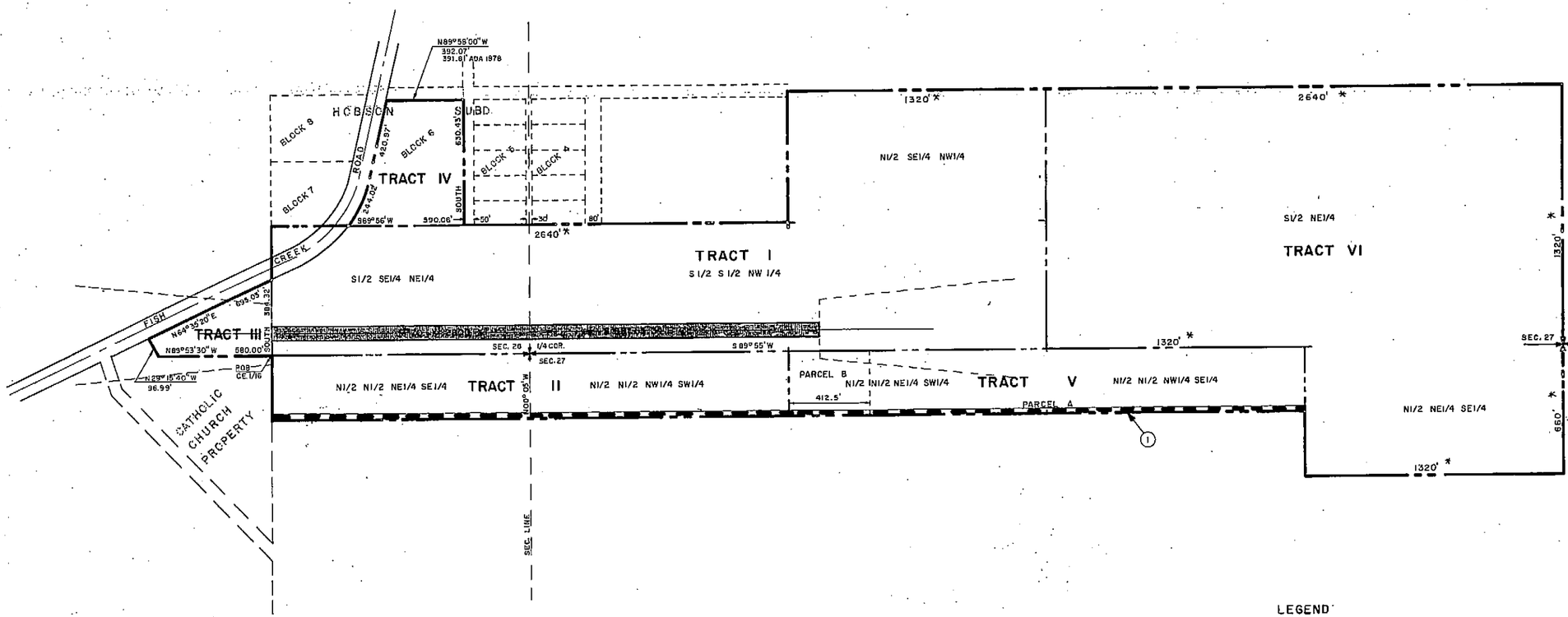
MAG. DEC. 24°25'E. 1977

PROPERTY STATUS

TRACT PARCEL	ADA NO.	ACREAGE	OWNER AS OF 11/22/71	INTEREST	DATE ACQUIRED	STAGE	REMARKS
TRACT I	10327	80.0 ±	A.D.L.	FEE SIMPLE	9/14/72	0	QUITCLAIM DEED
TRACT II	10801	20.0±	MIELKE	FEE SIMPLE	8/3/72	1	EMINENT DOMAIN ACTION FINAL JUDGMENT 4/9/75
TRACT III	10802	3.34	HOPPER	FEE SIMPLE	8/3/72	1	EMINENT DOMAIN ACTION FINAL JUDGMENT 1/31/73
TRACT IV	10803a 10803b	6.83 ±	BEDFORD ESTATE BRUTON	FEE SIMPLE	4/3/72 9/24/72	1	WARRANTY DEED FINAL JUDGMENT 6/20/74
TRACT V PARCEL A	10811	16.9±	HUGHES	FEE SIMPLE	8/3772	1	EMINENT DOMAIN ACTION FINAL JUDGMENT 12/13/72
TRACT V PARCEL B	10812	3.1±	WOOD	FEE SIMPLE	8/3/72	1	EMINENT DOMAIN ACTION FINAL JUDGMENT 12/13/72
TRACT VI	10834	100 ±	A.D.L.	FEE SIMPLE		1	WARRANTY DEED GRANTED BY A.D.L. 7/9/73
ITEM (1)	03367		KENNETH HUGHES				30' X 5,280' R.O.W.



VICINITY MAP
SCALE 1"=1 MILE
T.16,17N.; R.3W.
SEWARD MERIDIAN, ALASKA



LEGEND
* GOV'T MEASURE

NOTES:
1. I.L.M.T. GRANTED TO ADA ON 11/7/62 TO S 1/2 S 1/2 NW 1/4, SEC. 27 AND S1/2 SE 1/4 NE 1/4, SEC. 28
   QUITCLAIM DEED GRANTED BY ADL ON 9/14/72 FOR ABOVE PROPERTY AND IN ADDITION THE N 1/2 SE 1/4 NW 1/4, SEC. 27.
2. SEE LANDS DOCUMENT FILES REGARDING OIL, GAS AND MINERAL RESERVATIONS AFFECTING TRACTS.
3. FOR TRACT IV DETAIL SEE BIG LAKE AIRPORT LAND OCCUPANCY SHEET 1 OF 1.

AIRPORT LAYOUT PLAN CONDITIONAL APPROVAL 6/9/78
SUBJECT TO ALP APPROVAL LETTER DATED
By: [signature] DATE: 6/5/78
FAA, AIRPORTS DIVISION
ALASKAN REGION, AAL-600

F.A.A. AIRSPACE REVIEW NUMBER: 03-AAL-19NRA

BY	DATE	CHANGE
WK	10/9/78	ADDED NOTE 3 & REVISED R/W BEARING
WK	11/18/75	UPDATED PROP. STATUS TRACT II
CBS	1/20/75	UPDATED PROP. STATUS
BCK	1/29/73	UPDATED PROP. STATUS
BCK	11/2/72	UPDATED PROP. STATUS
BCK	8/1/72	REV. PROP. STATUS TRACT IV
BCK	2/22/72	REV. OF NOTES.

REVISIONS

THIS DRAWING SUPERSEDES PROPERTY PLAN DATED 6/11/71.

STATE OF ALASKA
DEPARTMENT OF PUBLIC WORKS
DIVISION OF AVIATION

BIG LAKE AIRPORT
PROPERTY PLAN

APPROVED [signature]
CLAYTON C. HUENERS, P.E. CHIEF DESIGN ENGINEER
APPROVED [signature]
W.P. MILLER SECONDARY AIRPORTS ENGINEER

SCALE	DESIGNED	DRAWN	SHEET
1"= 300'	D.H.	T.T.	1 OF 1
	CHECKED W.P.M.	DATE 11/22/71	