U.S. Department
of Transportation

**Federal Aviation
Administration**

Alaskan Region

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

April 24, 2014

Ken Green
North Slope Borough Project Administrator
3000 C Street, Suite 104
Anchorage AK 99503

Dear Mr. Green:

Point Lay Airport
Point Lay, Alaska
As-Built Airport Layout Plan
99-AAL-020-NRA

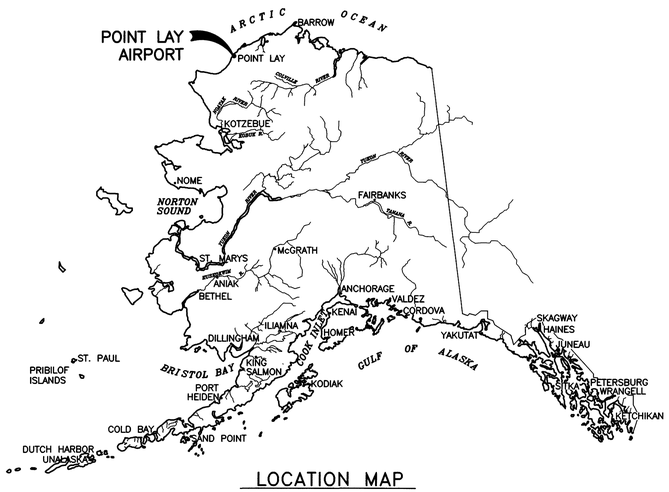
We have completed our review of the Point Lay Airport As-Built Airport Layout Plan (ALP), and find it acceptable for documenting the existing conditions of the airport. We look forward to working with you on identifying and addressing future needs at the airport.

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

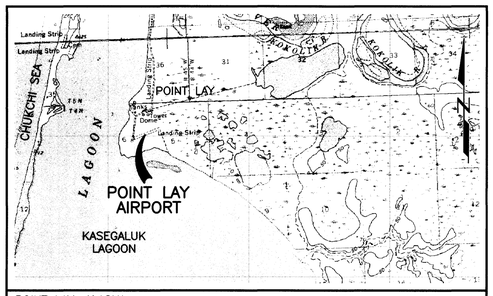
Sincerely,

Pat Oien, P.E., Airport Planner
Airports Division

Enclosure: Point Lay Airport ALP



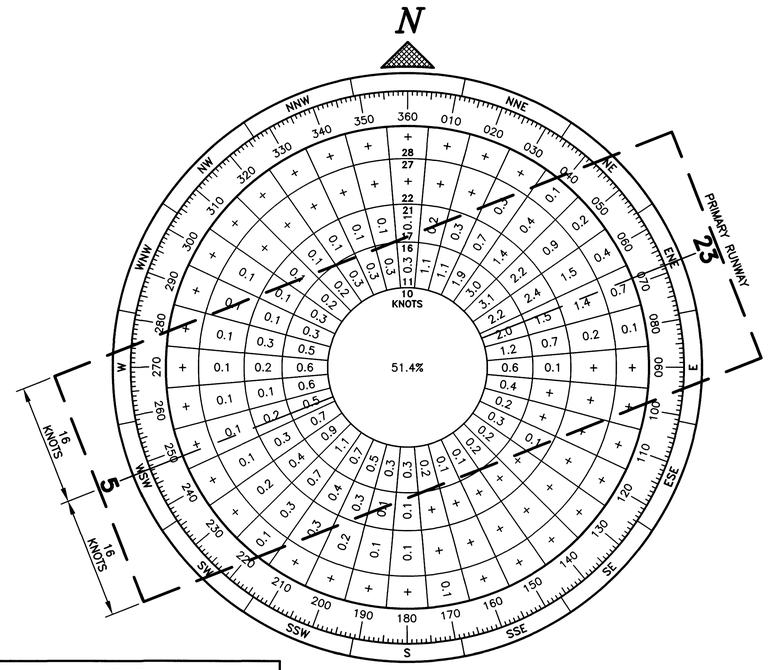
LOCATION MAP



POINT LAY, ALASKA
USGS (C-2) QUAD.
SEC 5, T4N, R45W
UMIAT MERIDIAN

VICINITY MAP

SCALE: 1" = 1 MILE



WIND ROSE

WIND DATA			
RUNWAY	10.5 kt	13 kt	16 kt
5–23	90.9%	95.0%	97.9%

SOURCE: ALASKA STATE CLIMATE CENTER
UNIVERSITY OF ALASKA, ANCHORAGE

PERIOD: 03/18/92 THROUGH 09/12/96

AIRPORT DATA

ITEM	EXISTING	ULTIMATE
ICAO IDENTIFIER	PPIZ	SAME
NATIONAL AIRPORT IDENTIFIER	PIZ	SAME
FAA SITE NUMBER	50601.3*A	SAME
AIRPORT ELEVATION (NAVD88)	28.5'	SAME
AIRPORT REFERENCE CODE	BII	SAME
MEAN MAX. TEMPERATURE, HOTTEST MONTH	48°F JULY	SAME
AIRPORT AND TERMINAL NAVIGATION AIDS	AWOS,BEACON, GPS,NDB	SAME
OBSTRUCTION SURVEY SOURCE & TYPE	AOC (SEE NOTE 2)	SAME
MAGNETIC DECLINATION, YEAR, RATE OF CHANGE (EPOCH YEAR – 2010)	14°48"E, 0°19'W/YEAR	SAME

TAXIWAY DATA

ITEM	EXISTING	ULTIMATE
TAXIWAY DESIGN GROUP	1	3
WIDTH	35'	50'
LENGTH	350'	SAME
SHOULDER WIDTH	N/A	N/A
SEPARATION FROM PARALLEL RUNWAY	N/A	N/A
SAFETY AREA (TSA)	118'	SAME
OBJECT FREE AREA (TOFA)	186'	SAME
TAXIWAY LIGHTING AND MARKING	MITL	MITL

NONSTANDARD CONDITIONS

ITEM	STANDARD	EXISTING
THRESHOLD LIGHTS	INBOARD	OUTBOARD
TAXIWAY WIDTH	35'	50'
LANDFILL SEPARATION DISTANCE	10,000'	6,500' ±

RUNWAY 5/23 DATA

ITEM	EXISTING	ULTIMATE
FAR PART 77 APPROACH CATEGORY (UTILITY OR OTHER THAN UTILITY)	UTILITY	SAME
RUNWAY TYPE (CIRCLING, V, NPA, PA)	NPA	SAME
RUNWAY DESIGN GROUP	B-II-5000	B-II-5000
APPROACH SURFACES	34:1	SAME
VISIBILITY MINIMUM (≥ 1 SM, > 1 SM, > 3/4 SM, > 1/2 SM	≥ 1 SM	≥ 1 SM SAME
RUNWAY SURFACE	GRAVEL	SAME
PAVEMENT STRENGTH (SW,DW,DTW,DDTW x1000lbs)	N/A	SAME
TRUE MEAN BEARING	N 68°39'28" E	SAME
MAXIMUM ELEVATION ABOVE MSL	28.5'	SAME
EFFECTIVE GRADE	0.24	SAME
RUNWAY TOUCHDOWN ZONE ELEVATIONS (NAVD 88)	RW 5: 28.46'	SAME
	RW 23: 24.08'	SAME
RUNWAY DIMENSIONS	100' x 4500'	SAME
RUNWAY SAFETY AREA (RSA) DIMENSIONS	150' x 5100'	SAME
RSA LENGTH BEYOND RW END	300'	SAME
RUNWAY PROTECTION ZONE (RPZ) DIMENSIONS	1000' x 500' x 700'	SAME
RUNWAY OBJECT FREE AREA (ROFA) DIMENSIONS	500' x 5100'	SAME
ROFA LENGTH BEYOND RW END OR STOPWAY	300'	SAME
RUNWAY OBSTACLE FREE ZONE (ROFZ) DIMENSIONS	400' x 4900'	SAME
PRECISION OBJECT FREE ZONE (POFZ) DIMENSIONS	N/A	N/A
RUNWAY LIGHTING TYPE	MIRL	HIRL
RUNWAY MARKING TYPE	NONE	NONE
RUNWAY VISUAL APPROACH AIDS	REIL/PAPI	REIL/PAPI/ MALSR
LANDING AIDS (ILS, GNAV, RNAV, RVR, SUPPLEMENTAL WIND CONE, ETC)	RNAV, NDB	SAME

GEOGRAPHIC COORDINATES (NAD 83) & ELEVATIONS (NAVD 88)

ITEM	EXISTING LATITUDE	EXISTING LONGITUDE	EXISTING ELEVATION	ULTIMATE LATITUDE	ULTIMATE LONGITUDE	ULTIMATE ELEVATION
AIRPORT REFERENCE POINT	69°43'58.36"	163°00'19.22"	22.0'	SAME	SAME	SAME
THRESHOLD RW 5	69°43'50.30"	163°01'18.69"	28.5'	SAME	SAME	SAME
THRESHOLD RW 23	69°44'06.41"	162°59'19.76"	17.7'	SAME	SAME	SAME

PACS & SACS

PID	DESIGNATION	LATITUDE	LONGITUDE	ELLIPSOID HEIGHT	NORTHING	EASTING	ELEVATION	DESCRIPTION
DM5173	PIZ A	N 69°43'58.64305"	W 163°00'42.42683"	11.795	5752685.27	1512053.869	16.467	PACS
DM5174	PIZ B	N 69°43'54.93085"	W 163°01'22.78497"	18.127	5752331.633	1510625.401	22.789	SACS
DM5175	PIZ C	N 69°44'10.35633"	W 163°00'11.37269"	9.416	5753857.828	1513167.72	14.114	SACS

SHEET INDEX

SHEET NO.	TITLE
1	AIRPORT DATA
2	AIRPORT LAYOUT PLAN
3	INNER PORTION OF APPROACH SURFACE
4	AIRPORT AIRSPACE (PART 77)
5	AIRSPACE COMPOSITE PROFILE
6	AIRPORT PROPERTY MAP–LAND USE

NOTES

1. AN ALP DRAWING SET WAS INITIALLY PREPARED IN MARCH 2006 AND PREVIOUSLY UPDATED IN JANUARY 2010 TO REFLECT AS – CONSTRUCTED CONDITIONS BASED ON WORK COMPLETED THROUGH THE FAA'S AIRPORT IMPROVEMENT PROGRAM (AIP) PROJECTS #3–02–0387–003–2006 AND #3–02–0387–004–2007.
2. THIS ALP DRAWING SET IS UPDATED BASED ON AN AIRPORT OBSTRUCTION CHART SURVEY (AOC) COMPLETED BY USKH, INC. IN JUNE 2011 IN ACCORDANCE WITH FAA AC 150/5300–18B. THIS ALP WAS UPDATED IN ACCORDANCE WITH FAA AC 150/5300–13A AND 150/5070–6B.
3. LATITUDE AND LONGITUDE WERE ESTABLISHED BY GPS OBSERVATIONS AND ADJUSTED BY USKH INC. IN JANUARY 2011 USING NAD 83 DATUM. DRAWING COORDINATES ARE ALASKA STATE PLANE ZONE 7, US–SURVEY FEET UNLESS OTHERWISE NOTED.
4. VERTICAL DATUM IS NAVD 88 REFERENCING PAC "PIZ A" ELEVATIONS ARE SHOWN UNLESS OTHERWISE NOTED.

LEGEND

ITEM	EXISTING	ULTIMATE
AIRPORT REFERENCE POINT (ARP)		
ANTENNA		
AWOS		
BUILDING		
BUILDING RESTRICTION LINE (BRL)	BRL	
CENTER LINE		
CONTOUR	100	
CULVERT		
FENCE	X	
LEASE LOT LINE		
LIGHT		
MONUMENT		
PAPI		
PIPE	S	
POND		
PROPERTY LINE		
REIL		
ROADWAY		
ROTATING BEACON		
SHORELINE		
SURVEY MONUMENT		
THRESHOLD LIGHTS		
TREE		
UTILITY LIGHT POLE		
VEGETATION / TREE LINE		
WIND CONE		
WIND CONE AND SEGMENTED CIRCLE		

DESIGN JGL
DRAWN MRM
CHECKED EK

BY	DATE	REVISIONS

NORTH SLOPE BOROUGH

APPROVED BY: Ken Cox DATE 4/24/14

AIRPORT LAYOUT PLAN CONDITIONAL APPROVAL SUBJECT TO ALP APPROVAL LETTER DATED 4/24/2014
FAA AIRSPACE REVIEW NUMBER: 99AAL-070-NRA

DATE: 4/24/14
FAA, AIRPORTS DIVISION ALASKAN REGION, AAL-612

POINT LAY AIRPORT - PIZ
AIRPORT LAYOUT PLAN

AIRPORT DATA

POINT LAY, ALASKA NORTH SLOPE BOROUGH

SHEET 1 OF 6

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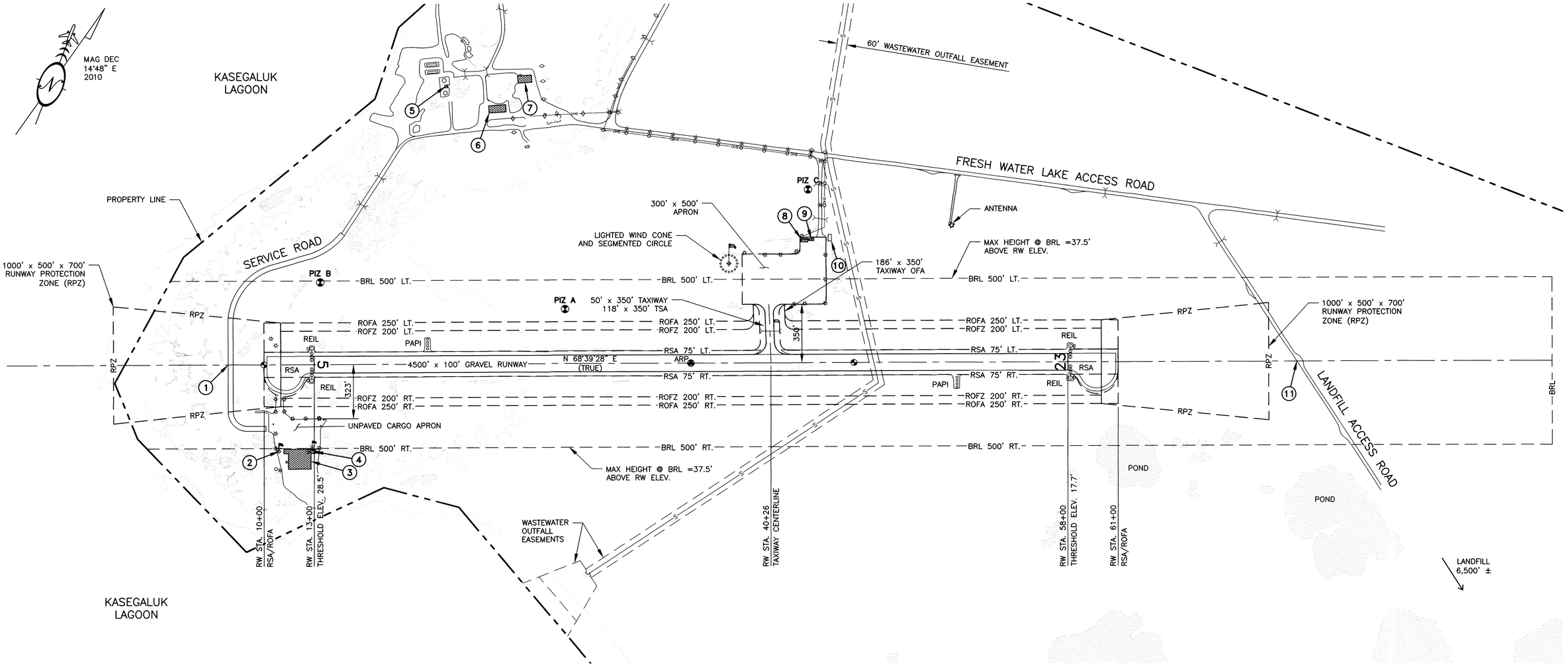

0 100 200 300 600 900 1200
SCALE IN FEET

NOTES:

1. STRUCTURE NUMBERS SHOWN ON THIS SHEET CORRELATE WITH STRUCTURE NUMBERS ON ALL SHEETS.
2. THE LANDFILL IS LOCATED LESS THAN THE FAA RECOMMENDED 10,000' FROM AIRPORTS SERVING TURBINE-POWERED AIRCRAFT (AC 150/5200-33B).
3. THE MAINTENANCE BUILDING WAS NOT PICKED UP AS PART OF THE AOC SURVEY. THE TOP ELEVATION SHOWN ON THIS TABLE IS CARRIED OVER FROM THE 2009 ALP AND ADJUSTED FOR DATUM SHIFT OF NEW SURVEY.
4. NO OFZ OBJECT PENETRATIONS.

BUILDING DATA

ID #	DESCRIPTION	STATION/ OFFSET	TOP ELEV (NAVD 88)	OBSTRUCTION MARKING EXIST	OBSTRUCTION MARKING FUTURE	REMARKS
1	SERVICE ROAD	8+00/244' LT.	28.5'	NO	NO CHANGE	NO AIRSPACE PENETRATION
2	WIND CONE	10+81/480' RT.	45.5'	YES	NO CHANGE	NO AIRSPACE PENETRATION
3	HANGAR	12+10/511' RT.	70.6'	YES	NO CHANGE	AIRSPACE PENETRATION
4	ROTATING BEACON	12+95/507' RT.	75.3'	YES	NO CHANGE	AIRSPACE PENETRATION
5	ANTENNA	20+92/1,660' LT.	124.6'	NO	NO CHANGE	NO AIRSPACE PENETRATION
6	DEW LINE COMPLEX WAREHOUSE	24+39/1,537' LT.	56.3'	NO	NO CHANGE	NO AIRSPACE PENETRATION
7	MAINTENANCE BUILDING	26+20/1,710' LT.	56.3'	NO	NO CHANGE	SEE NOTE 3
8	AWOS BUILDING	41+86/730' LT.	34.3'	NO	NO CHANGE	NO AIRSPACE PENETRATION
9	AWOS/NDB CONTROL	42+22/728' LT.	36.0'	YES	NO CHANGE	NO AIRSPACE PENETRATION
10	ELECTRICAL EQUIPMENT ENCLOSURE	42+35/725' LT.	29.3'	NO	NO CHANGE	NO AIRSPACE PENETRATION
11	LANDFILL ACCESS ROAD	72+00/0'	12.5'	YES	NO CHANGE	NO AIRSPACE PENETRATION

DESIGN JGL
DRAWN MRM
CHECKED EK

BY	DATE	REVISIONS

NORTH SLOPE BOROUGH

APPROVED BY: Ken Cm DATE 4/24/14

AIRPORT LAYOUT PLAN CONDITIONAL APPROVAL SUBJECT TO ALP APPROVAL LETTER DATED 4/24/2014
FAA AIRSPACE REVIEW NUMBER: 99-AAL-020-NRA
DATE: 4/24/14
FAA, AIRPORTS DIVISION ALASKAN REGION, AAL-

POINT LAY AIRPORT - PIZ
AIRPORT LAYOUT PLAN

AIRPORT LAYOUT PLAN

POINT LAY, ALASKA NORTH SLOPE BOROUGH

SHEET 2 OF 6

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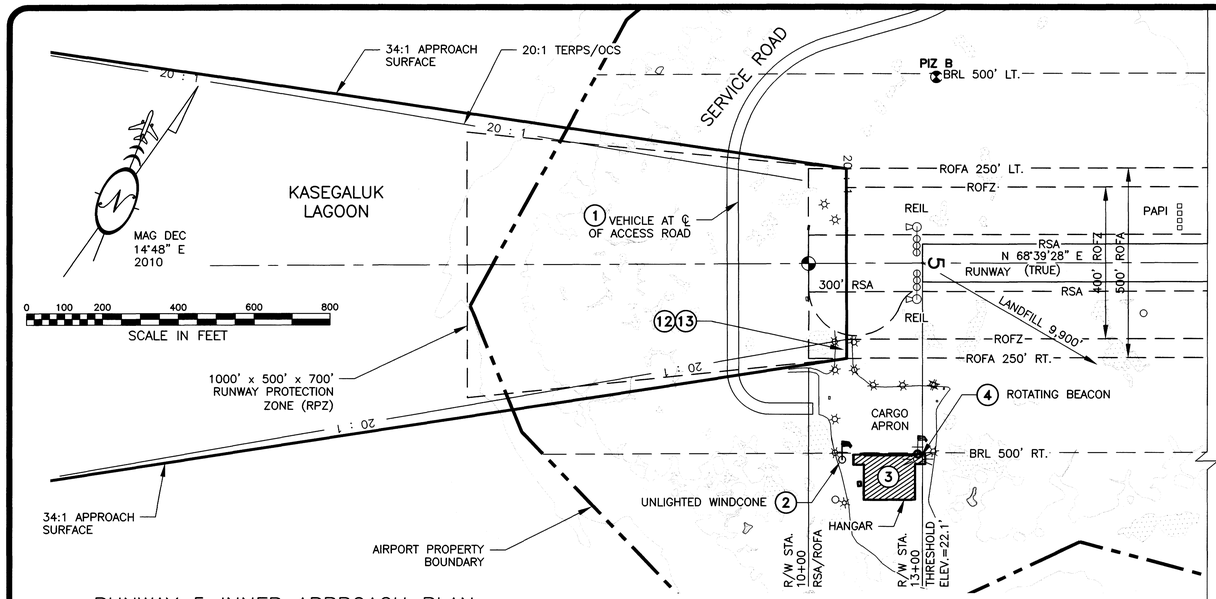
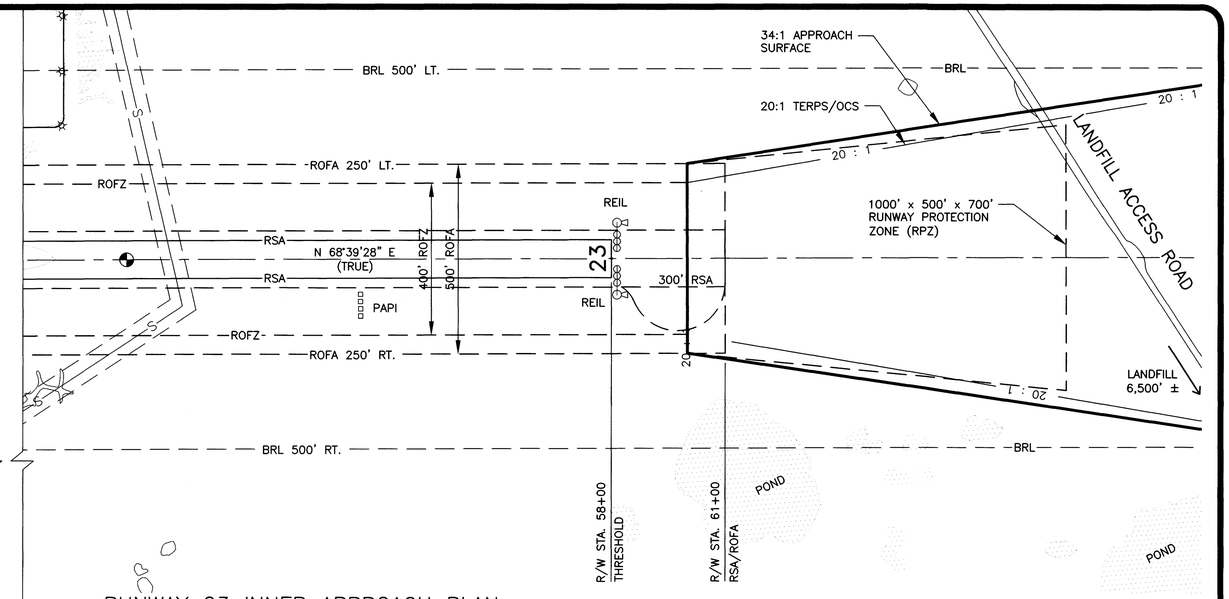
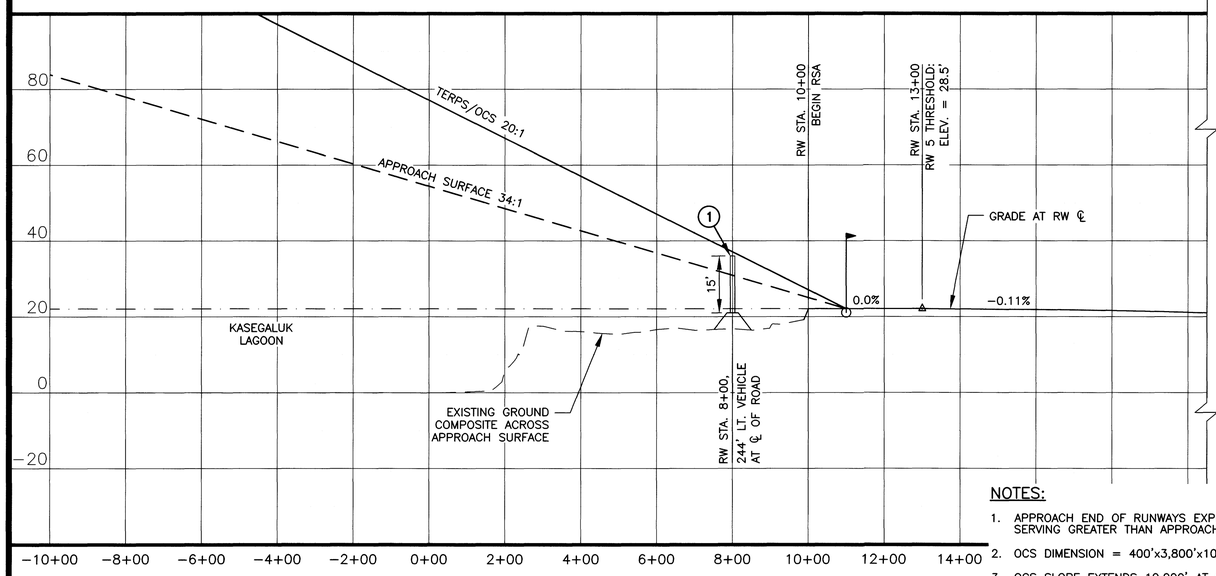
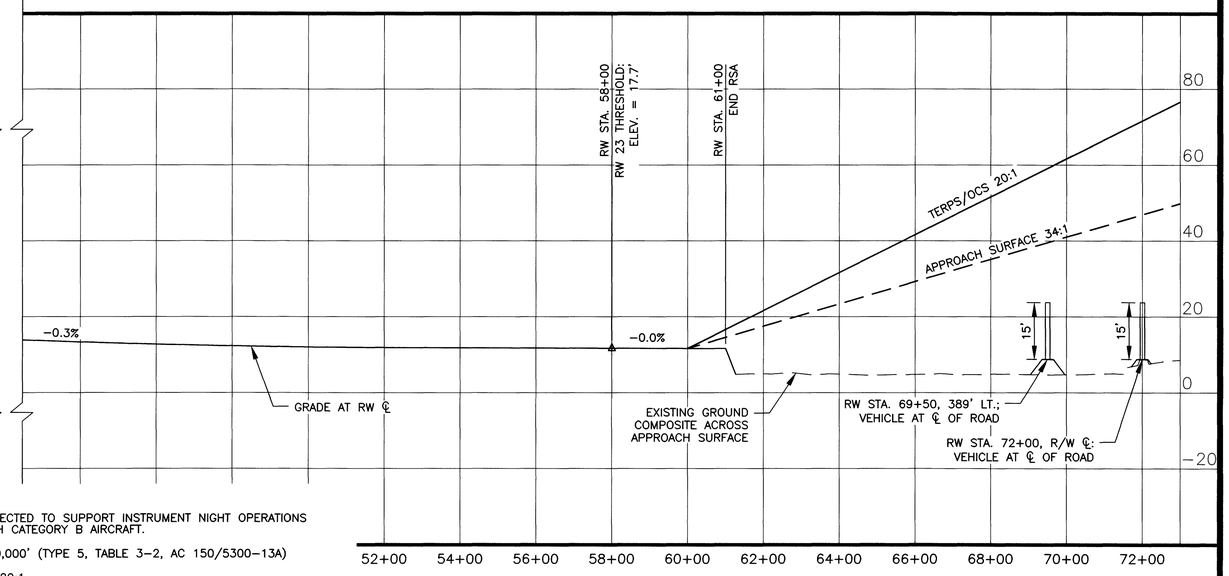


RUNWAY 5 INNER APPROACH PLAN



RUNWAY 23 INNER APPROACH PLAN





NOTES:

1. APPROACH END OF RUNWAYS EXPECTED TO SUPPORT INSTRUMENT NIGHT OPERATIONS SERVING GREATER THAN APPROACH CATEGORY B AIRCRAFT.
2. OCS DIMENSION = 400'x3,800'x10,000' (TYPE 5, TABLE 3–2, AC 150/5300–13A)
3. OCS SLOPE EXTENDS 10,000' AT 20:1
4. PART 77 APPROACH SURFACE DIMENSION = 500'x2,000'x5,000'
5. PART 77 APPROACH SURFACE EXTENDS 5,000' AT 34:1
6. PART 77 ROAD OBSTRUCTION HEIGHTS ARE INCLUDED (10' FOR PRIVATE ROAD & 15' FOR PUBLIC ROAD)
7. R/W 5 HAS NO OBSTACLE FREE ZONE OR THRESHOLD SITING SURFACE PENETRATIONS.
8. R/W 23 HAS NO OBSTACLE FREE ZONE OR THRESHOLD SITING SURFACE PENETRATIONS.

APPROACH SURFACE OBSTRUCTION DATA (INNER PORTION RW 5)

ID #	DESCRIPTION	STATION/ OFFSET	ELEV.	SURFACE ELEV.	AMOUNT OF PENETRATION	PROPOSED DISPOSITION	STAGE TO CORRECT
1	SERVICE ROAD + 15'	8+00/243.6' LT.	43.5	37.3	6.24	TO REMAIN	N/A
12	GROUND	10+99/212.2' LT.	28.8	28.5	0.28	TO REMAIN	N/A
13	GROUND	11+07/210.5' LT.	29.1	24.5	0.70	TO REMAIN	N/A

APPROACH SURFACE OBSTRUCTION DATA (INNER PORTION RW 23)

ID #	DESCRIPTION	STATION/ OFFSET	ELEV.	SURFACE ELEV.	AMOUNT OF PENETRATION	PROPOSED DISPOSITION	STAGE TO CORRECT
	NONE						

DESIGN JGL
DRAWN MRM
CHECKED EK

BY	DATE	REVISIONS

NORTH SLOPE BOROUGH

APPROVED BY: Ken Cox DATE 4-24-14

AIRPORT LAYOUT PLAN CONDITIONAL APPROVAL SUBJECT TO ALP APPROVAL LETTER DATED 4/24/2014
FAA AIRSPACE REVIEW NUMBER: 99AAL-020NRA
DATE: 4/24/14
FAA, AIRPORTS DIVISION ALASKAN REGION, AAL-620

POINT LAY AIRPORT - PIZ
AIRPORT LAYOUT PLAN
INNER PORTION OF APPROACH SURFACE
POINT LAY, ALASKA NORTH SLOPE BOROUGH

SHEET 3 OF 6

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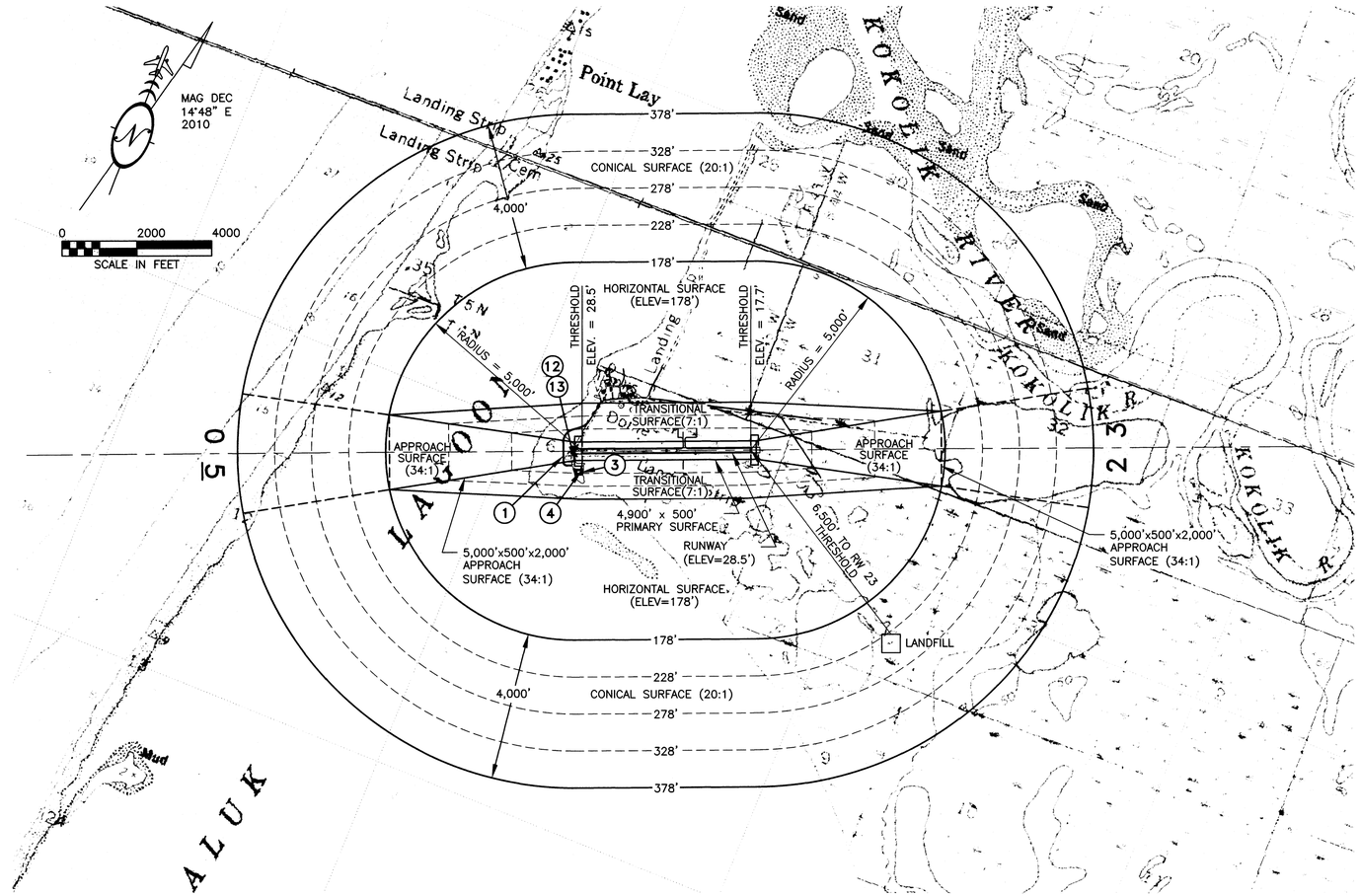

AIRSPACE – PLAN

NOTES:

1. REFER TO THE INNER PORTION OF APPROACH SURFACE FOR CLOSE IN OBSTRUCTIONS.
2. PRIMARY SURFACE WIDTH IS 500'.
3. THERE ARE NO KNOWN HEIGHT RESTRICTIONS.
4. REFER TO THE "AIRPORT LAYOUT PLAN" FOR BUILDING TABLE AND LOCATION OF OBSTRUCTIONS.
5. LANDFILL SEPARATION DISTANCE IS 6500' FROM R/W 23 THRESHOLD, LESS THAN THE 10,000' DISTANCE RECOMMENDED BY FAA AC 150/5200-33B.
6. BASE MAP USGS QUAD (C-2) POINT LAY.

PART 77 OBSTRUCTION DATA

ID #	DESCRIPTION	STATION/ OFFSET	ELEVATION	SURFACE PENETRATED	SURFACE ELEVATION	AMOUNT OF PENETRATION	PROPOSED DISPOSITION
1	SERVICE ROAD + 15'	8+00/243.6' LT.	43.5	APPROACH	37.3	6.2	TO REMAIN
12	GROUND	10+99/212.2' LT.	28.8	APPROACH	28.5	0.3	TO REMAIN
13	GROUND	11+07/210.5' LT.	29.1	PRIMARY	24.5	0.7	TO REMAIN
3	HANGAR	12+10/511' RT.	70.6	TRANSITIONAL	65.8	4.9	OBSTRUCTION LIGHT
4	ROTATING BEACON	12+95/507.3' RT.	75.3	TRANSITIONAL	64.8	10.5	OBSTRUCTION LIGHT

DESIGN JGL
DRAWN MRM
CHECKED EK

BY	DATE	REVISIONS

NORTH SLOPE BOROUGH

APPROVED BY: Ken Gr DATE 4/24/14

AIRPORT LAYOUT PLAN CONDITIONAL APPROVAL SUBJECT TO ALP APPROVAL LETTER DATED 4/24/2014
FAA AIRSPACE REVIEW NUMBER: 99AAL-020-NRA
DATE: 4/24/14
FAA, AIRPORTS DIVISION ALASKAN REGION, AAL-

POINT LAY AIRPORT - PIZ
AIRPORT LAYOUT PLAN

AIRPORT AIRSPACE (PART 77)

POINT LAY, ALASKA NORTH SLOPE BOROUGH

SHEET 4 OF 6

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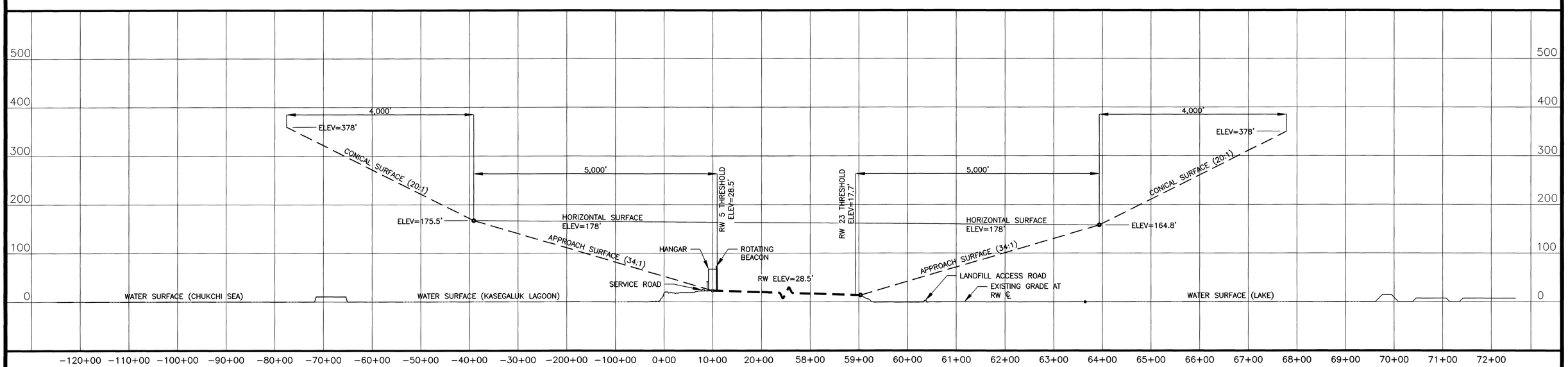

AIRSPACE COMPOSITE PROFILE

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DESIGN JGL
DRAWN MRM
CHECKED EK

BY	DATE	REVISIONS

NORTH SLOPE BOROUGH

APPROVED BY: _____ DATE 4/24/14

AIRPORT LAYOUT PLAN CONDITIONAL APPROVAL SUBJECT TO ALP APPROVAL LETTER DATED 4/24/2014
FAA AIRSPACE REVIEW NUMBER ANAL-020-NRA

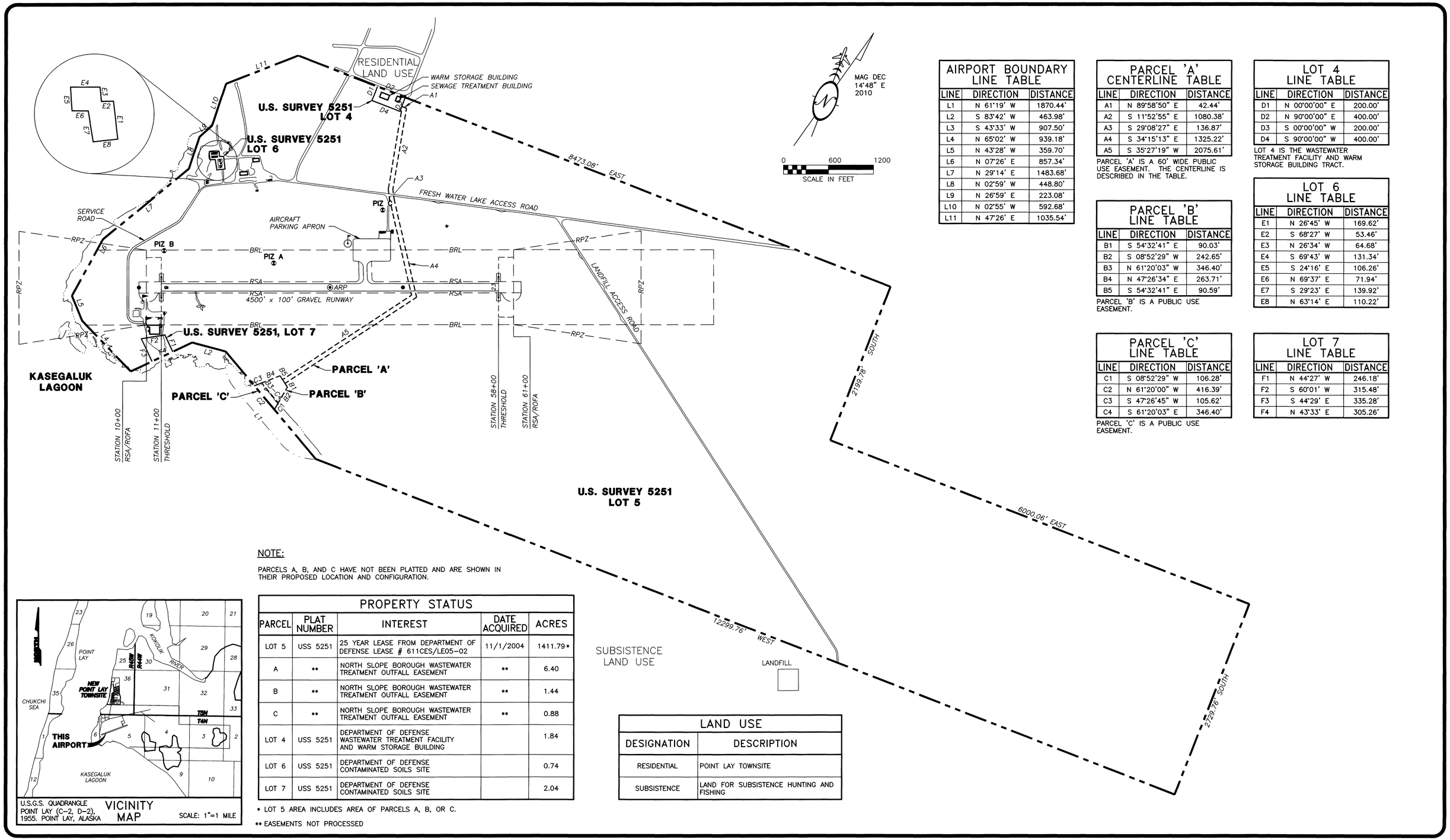
FAA, AIRPORTS DIVISION ALASKAN REGION, AAL- DATE: 4/24/14

POINT LAY AIRPORT - PIZ
AIRPORT LAYOUT PLAN

AIRSPACE COMPOSITE PROFILE

POINT LAY, ALASKA NORTH SLOPE BOROUGH

SHEET 5 OF 6



AIRPORT BOUNDARY LINE TABLE		
LINE	DIRECTION	DISTANCE
L1	N 61°19' W	1870.44'
L2	S 83°42' W	463.98'
L3	S 43°33' W	907.50'
L4	N 65°02' W	939.18'
L5	N 43°28' W	359.70'
L6	N 07°26' E	857.34'
L7	N 29°14' E	1483.68'
L8	N 02°59' W	448.80'
L9	N 26°59' E	223.08'
L10	N 02°55' W	592.68'
L11	N 47°26' E	1035.54'

PARCEL 'A' CENTERLINE TABLE		
LINE	DIRECTION	DISTANCE
A1	N 89°58'50" E	42.44'
A2	S 11°52'55" E	1080.38'
A3	S 29°08'27" E	136.87'
A4	S 34°15'13" E	1325.22'
A5	S 35°27'19" W	2075.61'

PARCEL 'A' IS A 60' WIDE PUBLIC USE EASEMENT. THE CENTERLINE IS DESCRIBED IN THE TABLE.

PARCEL 'B' LINE TABLE		
LINE	DIRECTION	DISTANCE
B1	S 54°32'41" E	90.03'
B2	S 08°52'29" W	242.65'
B3	N 61°20'03" W	346.40'
B4	N 47°26'34" E	263.71'
B5	S 54°32'41" E	90.59'

PARCEL 'B' IS A PUBLIC USE EASEMENT.

PARCEL 'C' LINE TABLE		
LINE	DIRECTION	DISTANCE
C1	S 08°52'29" W	106.28'
C2	N 61°20'00" W	416.39'
C3	S 47°26'45" W	105.62'
C4	S 61°20'03" E	346.40'

PARCEL 'C' IS A PUBLIC USE EASEMENT.

LOT 4 LINE TABLE		
LINE	DIRECTION	DISTANCE
D1	N 00°00'00" E	200.00'
D2	N 90°00'00" E	400.00'
D3	S 00°00'00" W	200.00'
D4	S 90°00'00" W	400.00'

LOT 4 IS THE WASTEWATER TREATMENT FACILITY AND WARM STORAGE BUILDING TRACT.

LOT 6 LINE TABLE		
LINE	DIRECTION	DISTANCE
E1	N 26°45' W	169.62'
E2	S 68°27' W	53.46'
E3	N 26°34' W	64.68'
E4	S 69°43' W	131.34'
E5	S 24°16' E	106.26'
E6	N 69°37' E	71.94'
E7	S 29°23' E	139.92'
E8	N 63°14' E	110.22'

LOT 7 LINE TABLE		
LINE	DIRECTION	DISTANCE
F1	N 44°27' W	246.18'
F2	S 60°01' W	315.48'
F3	S 44°29' E	335.28'
F4	N 43°33' E	305.26'

NOTE:

PARCELS A, B, AND C HAVE NOT BEEN PLATTED AND ARE SHOWN IN THEIR PROPOSED LOCATION AND CONFIGURATION.

U.S.G.S. QUADRANGLE POINT LAY (C-2, D-2), 1955. POINT LAY, ALASKA

VICINITY MAP

SCALE: 1"=1 MILE

PROPERTY STATUS				
PARCEL	PLAT NUMBER	INTEREST	DATE ACQUIRED	ACRES
LOT 5	USS 5251	25 YEAR LEASE FROM DEPARTMENT OF DEFENSE LEASE # 611CES/LE05-02	11/1/2004	1411.79*
A	**	NORTH SLOPE BOROUGH WASTEWATER TREATMENT OUTFALL EASEMENT	**	6.40
B	**	NORTH SLOPE BOROUGH WASTEWATER TREATMENT OUTFALL EASEMENT	**	1.44
C	**	NORTH SLOPE BOROUGH WASTEWATER TREATMENT OUTFALL EASEMENT	**	0.88
LOT 4	USS 5251	DEPARTMENT OF DEFENSE WASTEWATER TREATMENT FACILITY AND WARM STORAGE BUILDING		1.84
LOT 6	USS 5251	DEPARTMENT OF DEFENSE CONTAMINATED SOILS SITE		0.74
LOT 7	USS 5251	DEPARTMENT OF DEFENSE CONTAMINATED SOILS SITE		2.04

* LOT 5 AREA INCLUDES AREA OF PARCELS A, B, OR C.

** EASEMENTS NOT PROCESSED

LAND USE	
DESIGNATION	DESCRIPTION
RESIDENTIAL	POINT LAY TOWNSITE
SUBSISTENCE	LAND FOR SUBSISTENCE HUNTING AND FISHING

DESIGN JGL

DRAWN MRM

CHECKED EK

BY	DATE	REVISIONS

NORTH SLOPE BOROUGH

APPROVED BY: Ken Cum DATE 4/24/14

AIRPORT LAYOUT PLAN CONDITIONAL APPROVAL SUBJECT TO ALP APPROVAL LETTER DATED 4/24/2012
FAA AIRSPACE REVIEW NUMBER: 09AAL-020-NRA

DATE: 4/24/14

FAA, AIRPORTS DIVISION ALASKAN REGION, AAL-612

POINT LAY AIRPORT - PIZ

AIRPORT LAYOUT PLAN

AIRPORT PROPERTY MAP–LAND USE

POINT LAY, ALASKA NORTH SLOPE BOROUGH

SHEET 6 OF 6

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