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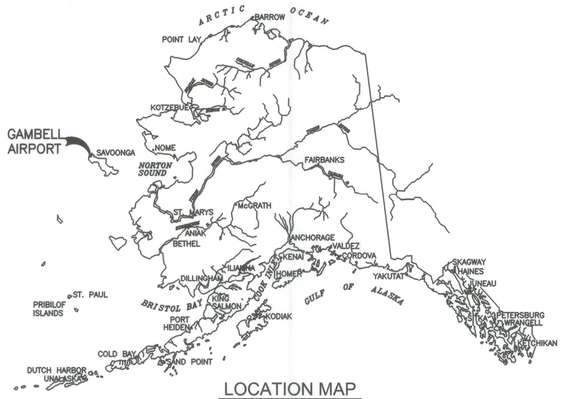
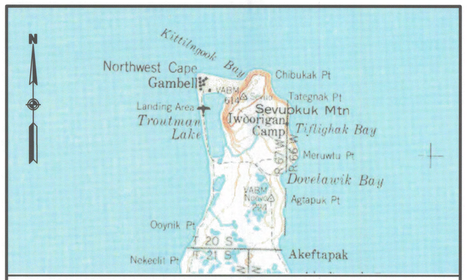


LOCATION MAP

GAMBELL, ALASKA

AIRPORT LAYOUT PLAN

GAMBELL AIRPORT



GAMBELL, ALASKA
T20S, R67W
USGS MAP ST. LAWRENCE

VICINITY MAP

SCALE: 1" = 2000'
0 2000

LEGEND

ITEM	EXISTING/ULTIMATE
AIRPORT REFERENCE POINT	
AWOS	
BUILDING	
BUILDING RESTRICTION LINE	
BUSH	
CENTER LINE	
CONTOUR	100
FENCE	
LEASE LOT LINE	
ODALS, REILS	
PROPERTY LINE	
ROADWAY/TRAIL	
ROTATING BEACON	
SEGMENTED CIRCLE	
SHORELINE	
SURVEY MONUMENT	
THRESHOLD LIGHTS	
VASI	
WIND CONE	

SHEET INDEX

SHEET NO.	SHEET TITLE
1	COVER
2	AIRPORT DATA
3	EXISTING/ULTIMATE AIRPORT LAYOUT PLAN
4	EXISTING/ULTIMATE TERMINAL PLAN
5	EXISTING/ULTIMATE INNER PORTION OF APPROACH SURFACE
6	AIRPORT AIRSPACE (FAR PART 77)

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STATE OF ALASKA
DEPARTMENT OF TRANSPORTATION AND PUBLIC FACILITIES
NORTHERN REGION–AVIATION

APPROVED: Albert ML Beck DATE 5/10/17
ALBERT M.L. BECK, P.E. DESIGN GROUP CHIEF

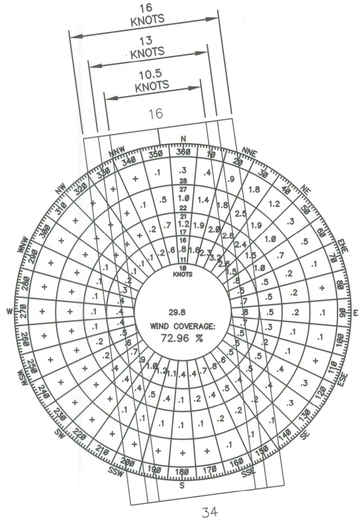
AIRPORT LAYOUT PLAN CONDITIONAL APPROVAL SUBJECT TO
ALP APPROVAL LETTER DATED 08/30/2017
FAA AIRSPACE REVIEW NUMBER: 2017-AAL-8-NRA

DATE 8/30/17
FAA, AIRPORTS DIVISION ALASKAN REGION, AAL-600

BY	DATE	REVISIONS

GAMBELL AIRPORT
GAMBELL, ALASKA
COVER

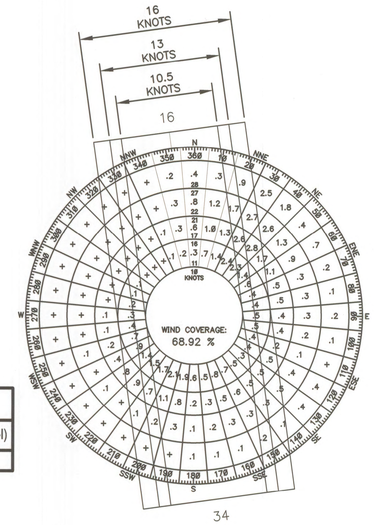
SHEET 1 OF 6



WIND DATA (ALL WEATHER)

RUNWAY	16 kt (B-III,C-I)	13 kt (B-II,A-II)	10.5 kt (A-I,B-I)
16/34	83.93%	72.95%	62.03%

SOURCE: NCDC ISH/ISD
STATION NAME: GAMBELL
PERIOD: 2006–2015



WIND DATA (IFR)

RUNWAY	16 kt (B-III,C-I)	13 kt (B-II,A-II)	10.5 kt (A-I,B-I)
16/34	79.71%	67.74%	56.43%

SOURCE: NCDC ISH/ISD
STATION NAME: GAMBELL
PERIOD: 2006–2015

AIRPORT DATA

	GAMBELL AIRPORT	
ITEM	EXISTING	ULTIMATE
ICAO IDENTIFIER	PAGM	SAME
NATIONAL AIRPORT IDENTIFIER	GAM	SAME
FAA SITE NUMBER	50260.*A	SAME
AIRPORT REFERENCE CODE (ARC)	B–II	SAME
NPIAS SERVICE LEVEL (P, CS, R, GA)	GA	SAME
AASP CLASSIFICATION	COMMUNITY OFF ROAD	SAME
AIRPORT ELEVATION (NAVD88)	29.31'	SAME
MEAN MAX. TEMPERATURE, HOTTEST MONTH	49.9°F, JULY	SAME
OBSTRUCTION SURVEY SOURCE & TYPE	AOC (SEE NOTES)	SAME
MAGNETIC DECLINATION, YEAR, RATE OF CHANGE SOURCE: WWW.NGDC.NOAA.GOV	7°43'E, 2015, 0°17'W / YEAR	SAME
AIRPORT AND TERMINAL NAVIGATION AIDS	ROT. BEACON, WINDCONE, SEG. CIR., NDB, DME, AWOS	SAME

RUNWAY DATA

	RUNWAY 16/34	
ITEM	EXISTING	ULTIMATE
FAR PART 77 APPROACH CATEGORY (UTILITY, OTHER THAN UTILITY)	OTHER THAN UTILITY	SAME
FAR PART 77 APPROACH TYPE (V, C, NPA, PA)	NPA / NPA	SAME
AERONAUTICAL SURVEY TYPE	VERTICALLY GUIDED	SAME
RUNWAY DESIGN CODE (RDC)	B–II–5000	SAME
RUNWAY REFERENCE CODE (RRC)	B–II–5000	SAME
CRITICAL AIRCRAFT	BEECHCRAFT 1900	SAME
FAR PART 77 APPROACH SLOPE	34:1 / 34:1	SAME
THRESHOLD SITING SURFACE	20:1 / 20:1	SAME
VISIBILITY MINIMUM	≥1 SM / ≥1 SM	SAME
RUNWAY SURFACE	ASPHALT	SAME
PAVEMENT STRENGTH (SW,DW,DTW x1000lbs)	22, NA, NA	SAME
TRUE MEAN BEARING	N 07°56'09" W	SAME
MAXIMUM ELEVATION ABOVE MSL	29.31'	SAME
EFFECTIVE GRADE	0.02%	SAME
RUNWAY TOUCHDOWN ZONE ELEVATIONS (NAVD 88)	RW 16: 29.10'	SAME
	RW 34: 28.19'	SAME
RUNWAY DIMENSIONS	100' TO 75' x 4,500'	100' x 4,500'
RUNWAY PAVED SHOULDERS	10'	10'
RUNWAY SAFETY AREA (RSA) DIMENSIONS	150' x 5,100'	150' x 5,100'
RSA LENGTH BEYOND RW ENDS	300'	SAME
RUNWAY PROTECTION ZONE (RPZ) DIMENSIONS	500' x 700' x 1,000'	SAME
RUNWAY OBJECT FREE AREA (OFA) DIMENSIONS	500' x 5,100'	500' x 5,100'
ROFA LENGTH BEYOND RW ENDS	300'	SAME
RUNWAY OBSTACLE FREE ZONE (OFZ) DIMENSIONS	400' x 4,900'	400' x 4,900'
PRECISION OBJECT FREE ZONE (POFZ) DIMENSIONS	N/A	SAME
RUNWAY LIGHTING TYPE	MIRL	SAME
RUNWAY MARKING TYPE (P, NP, NONE)	NPI	NPI
RUNWAY VISUAL APPROACH AIDS	ODALS, VASI	SAME
RUNWAY LANDING AIDS	NDB/DME, RNAV (GPS)	SAME

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

ITEM	EXISTING LATITUDE	EXISTING LONGITUDE	EXISTING ELEVATION	ULTIMATE LATITUDE	ULTIMATE LONGITUDE	ULTIMATE ELEVATION
AIRPORT REFERENCE POINT	63°45'59.81" N	171°43'58.02" W	N/A	SAME	SAME	SAME
RW 16 END	63°46'21.74" N	171°44'04.93" W	29.31'	SAME	SAME	SAME
RW 34 END	63°45'37.88" N	171°43'51.12" W	28.15'	SAME	SAME	SAME

MODIFICATIONS TO STANDARDS

NONE REQUIRED

NOTES

1. THIS DRAWING IS MERELY A COMPILATION OF SELECTED MAPPING DATA. IT IS NOT A COMPLETE SURVEY OF ANY KIND.
2. ALL DISTANCES AND COORDINATES SHOWN HEREON ARE NAD83 IN U.S. SURVEY FEET.
3. THE VERTICAL DATUM IS NAVD 88 USING GEOID12B.
4. THIS PROJECT UTILIZES EXISTING SURVEY DATA COMPLETED IN 2010 AND 2015.

TAXIWAY DATA

ITEM	EXISTING	ULTIMATE
TAXIWAY DESIGN GROUP	2	2
TAXIWAY DIMENSIONS	50' X 1,070'	35' X 1070'
TAXIWAY SAFETY AREA WIDTH	79'	SAME
TAXIWAY OFA	131'	SAME
TAXIWAY SHOULDERS	UNKNOWN	15'
TAXIWAY EDGE SAFETY MARGIN	7.5	SAME
TAXIWAY EDGE LIGHTING	MITL	SAME

DESIGN REH
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CHECKED CML

STATE OF ALASKA
DEPARTMENT OF TRANSPORTATION AND PUBLIC FACILITIES
NORTHERN REGION–AVIATION

APPROVED: Albert ML Beck DATE 5/10/17
ALBERT M.L. BECK, P.E. DESIGN GROUP CHIEF

BY	DATE	REVISIONS	FAA

BY	DATE	REVISIONS	FAA

GAMBELL AIRPORT
GAMBELL, ALASKA
AIRPORT DATA

SHEET 2 OF 6

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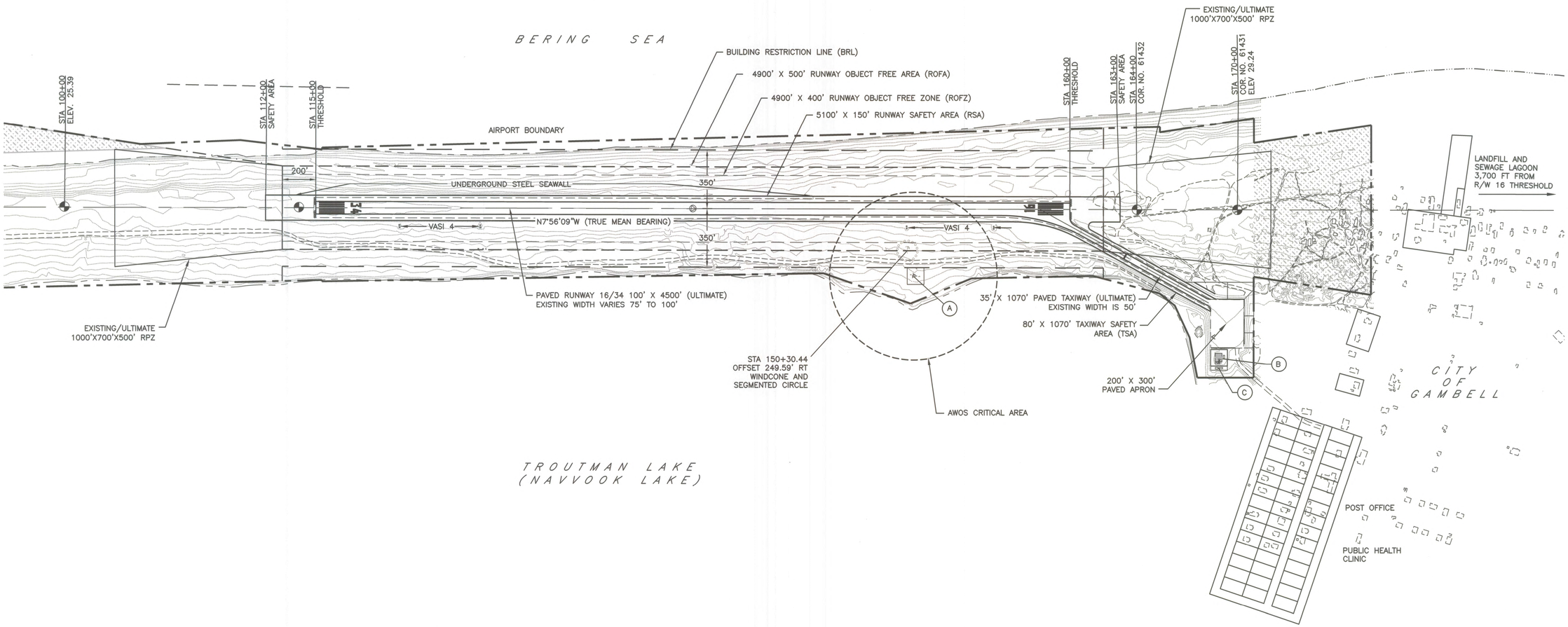

BUILDINGS			
BLDG	DESCRPITION	STA/OFFSET	TOP ELEV
A	AWOS	STA: 150+65.57 OFFSET: 401.73' RT	43.0'
B	SREB	STA: 169+91.308 OFFSET: 874.93' RT	15.0'
C	ELEC EQUIP ENCL	STA: 169+87.58 OFFSET: 928.60' RT	13.4'

LEGEND

AVIGATION EASEMENT

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STATE OF ALASKA
DEPARTMENT OF TRANSPORTATION AND PUBLIC FACILITIES
NORTHERN REGION–AVIATION

APPROVED: Albert M. Beck DATE 5/10/17
ALBERT M.L. BECK, P.E. DESIGN GROUP CHIEF

BY	DATE	REVISIONS	FAA

BY	DATE	REVISIONS	FAA

GAMBELL AIRPORT
GAMBELL, ALASKA
EXISTING/ULTIMATE
AIRPORT LAYOUT PLAN

SHEET 3 OF 6

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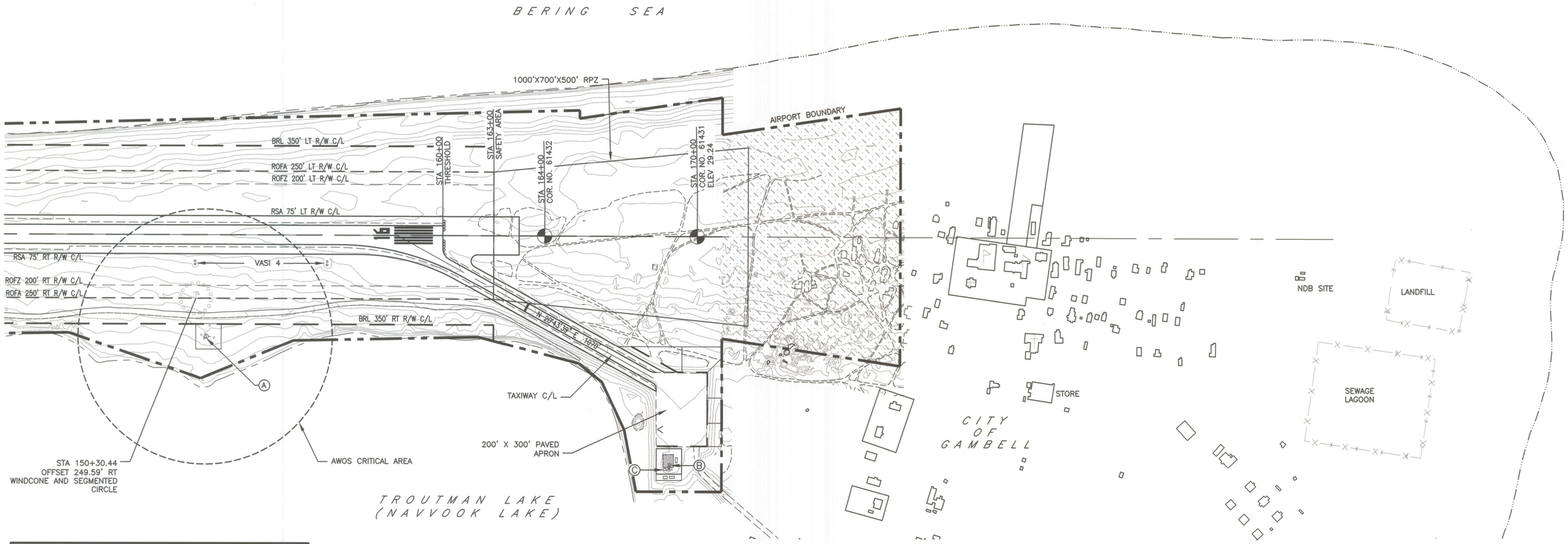

BUILDINGS			
BLDG	DESCRPITION	STA/OFFSET	TOP ELEV
A	AWOS	STA: 150+65.57 OFFSET: 401.73' RT	43.0'
B	SREB	STA: 169+91.30 OFFSET: 874.93' RT	15.0'
C	ELEC EQUIP ENCL	STA: 169+87.58 OFFSET: 928.60' RT	13.4'

LEGEND

AVIGATION EASEMENT

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STATE OF ALASKA
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NORTHERN REGION–AVIATION

APPROVED: Albert M.L. Beck DATE 5/10/17
ALBERT M.L. BECK, P.E. DESIGN GROUP CHIEF

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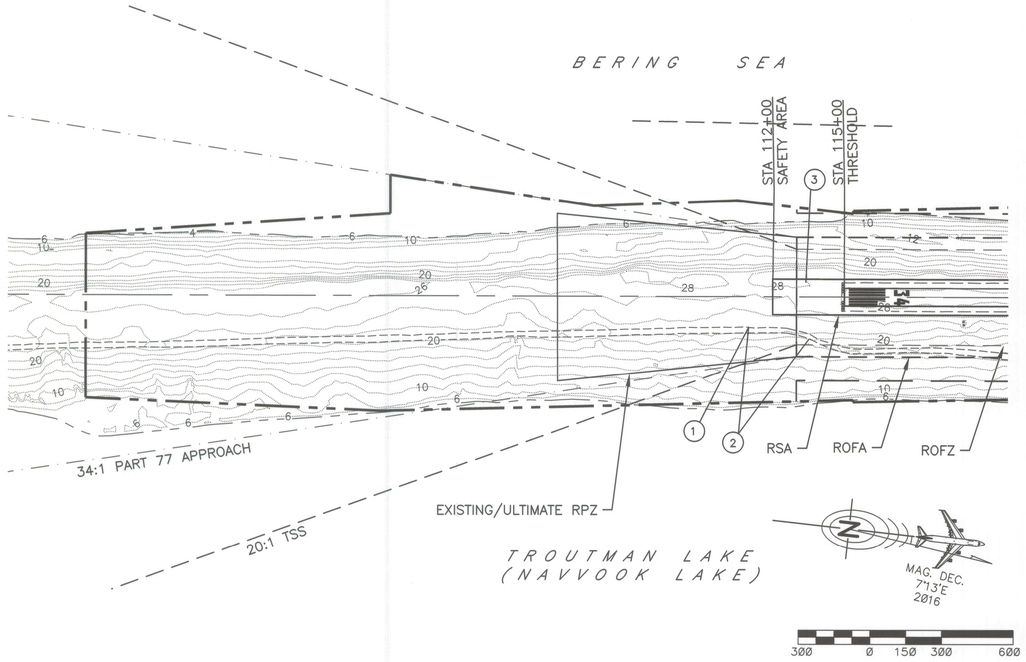
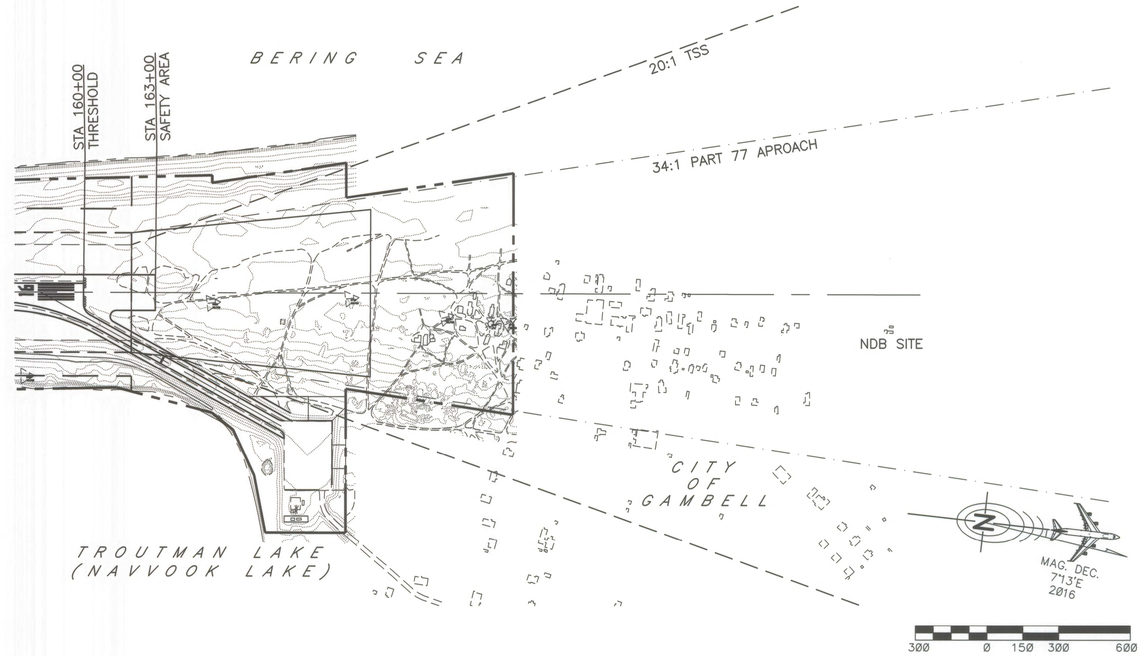
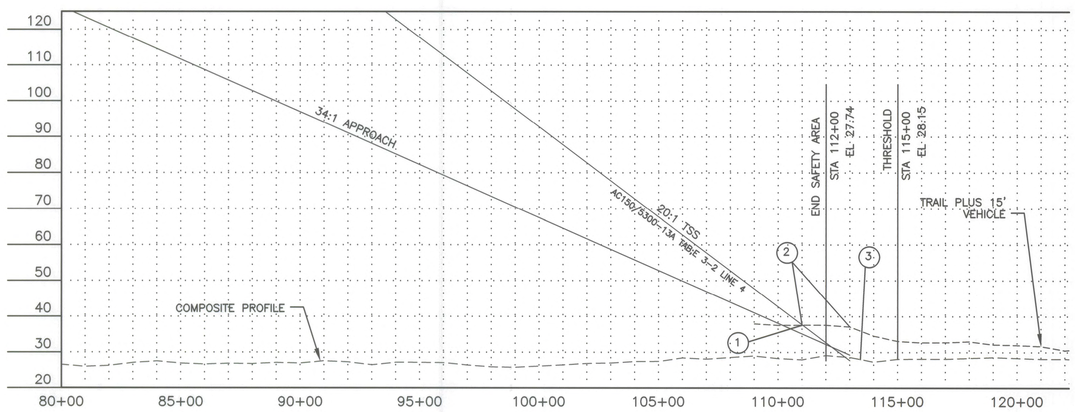
BY	DATE	REVISIONS	FAA

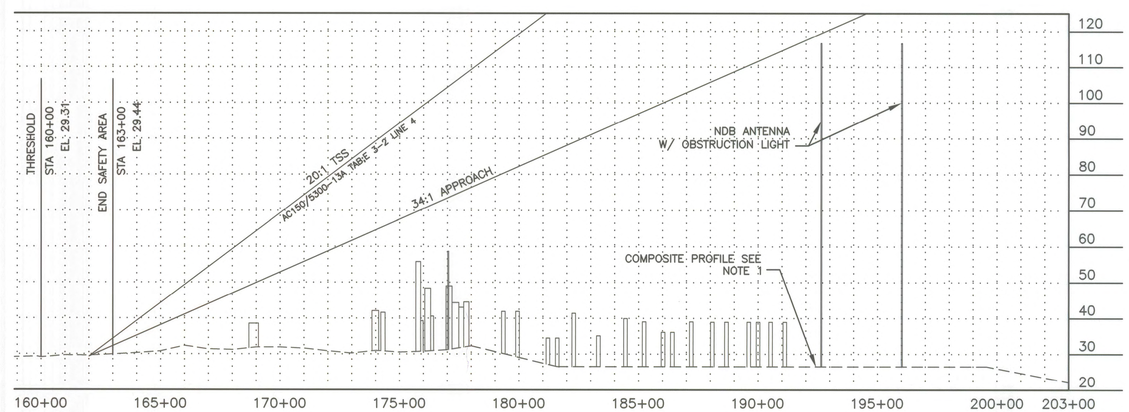
GAMBELL AIRPORT
GAMBELL, ALASKA
EXISTING/ULTIMATE TERMINAL PLAN

SHEET 4 OF 6









GENERAL NOTES:

1. COMPOSITE PROFILE IS BASED OFF OF AUGUST 2015 SURVEY FROM THRESHOLD AT STA 160+00 TO STA 178+00. BEYOND STA 178+00 PROFILE DATA IS EXTRAPOLATED FROM PREVIOUS ALP DATE 11/7/01. NDB ANTENNA LOCATION BASED OFF OF AERIAL GOOGLE IMAGERY AND ELEVATION BASED ON 5010 MASTER RECORD.

OBSTRUCTION TABLE

ID#	DESCRIPTION	STATION/OFFSET	ELEVATION	SURFACE ELEVATION	SURFACE PENETRATED	DISPOSITION
1	TRAIL +15	111+00/127.6'RT	37.6	35.2	APPROACH	RELOCATE
2	TRAIL + 15	111+00 TO 113+00/126'RT	37.7	27.7	TSS	RELOCATE
3	TERRAIN	113+44/62'LT	28.0	27.7	PRIMARY SURFACE	REMOVE

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STATE OF ALASKA
DEPARTMENT OF TRANSPORTATION AND PUBLIC FACILITIES
NORTHERN REGION–AVIATION

APPROVED: Albert ML Beck DATE 5/10/17
ALBERT M.L. BECK, P.E. DESIGN GROUP CHIEF

BY	DATE	REVISIONS	FAA

BY	DATE	REVISIONS	FAA

GAMBELL AIRPORT
GAMBELL, ALASKA
EXISTING/ULTIMATE
INNER PORTION OF APPROACH SURFACE

SHEET 5 OF 6

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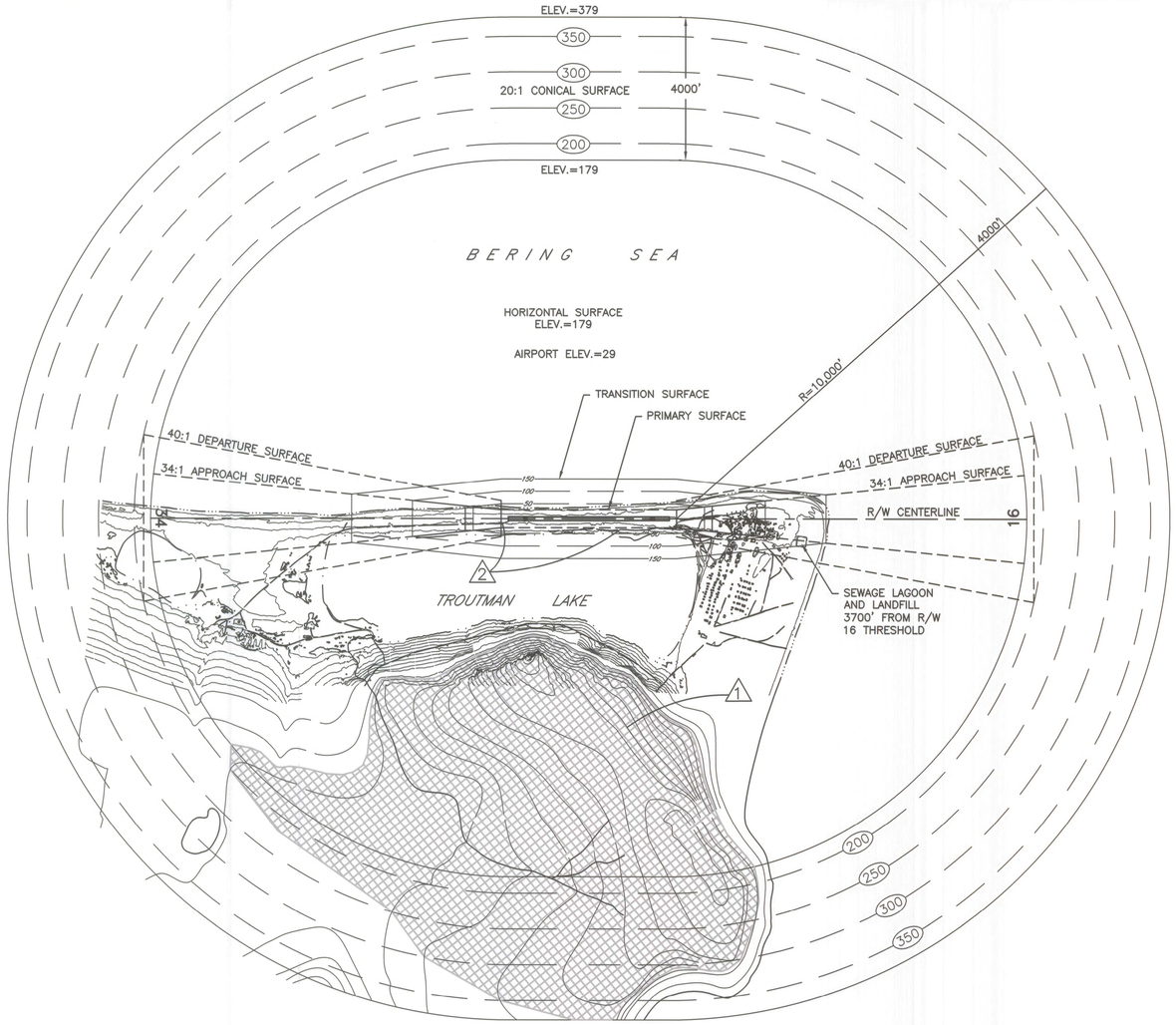
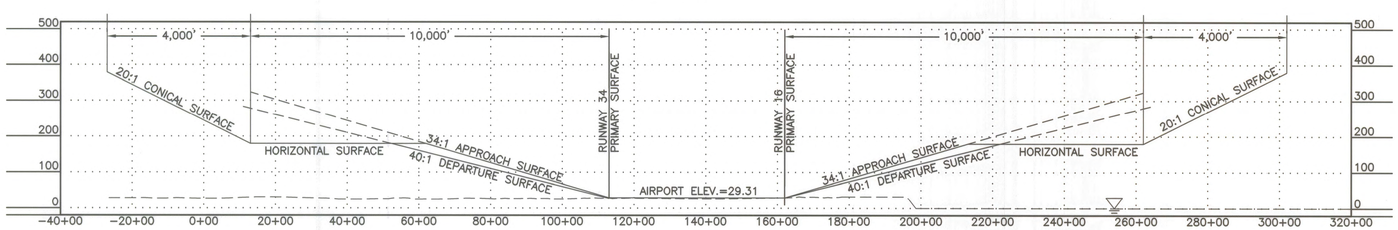


AIRSPACE PLAN



AIRSPACE PROFILE

ULTIMATE RUNWAY F.A.R. PART 77 DIMENSIONS OTHER THAN UTILITY, NPI, > 1 S.M.

DESCRIPTION	DIMENSION
ESTABLISHED AIRPORT ELEVATION	TERRAIN
RUNWAY THRESHOLD ELEVATION	RW34 28.15' / RW16 29.31'
PRIMARY SURFACE	500' X 4,900'
HORIZONTAL SURFACE ELEVATION	179'
HORIZONTAL SURFACE RADIUS	10,000'
APPROACH SURFACE	500' X 10,000' X 3,500'
APPROACH SURFACE SLOPE	34:1
CONICAL SURFACE WIDTH	4,000'
TRANSITIONAL SURFACE SLOPE	7:1

OBSTRUCTION TABLE

ID#	DESCRIPTION	ELEVATION	SURFACE ELEVATION	SURFACE PENETRATED	DISPOSITION
1	TERRAIN	179+	VARIES	HORIZONTAL AND CONICAL SURFACES	WAIVER
2	TRAIL + 15'	VARIES	VARIES	TRANSITION, APPROACH, DEPARTURE SURFACES	RELOCATE

LEGEND

FAR PART 77 PENETRATION

1 OBSTRUCTION ID

0 5000 10,000

SCALE IN FEET

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STATE OF ALASKA
DEPARTMENT OF TRANSPORTATION AND PUBLIC FACILITIES
NORTHERN REGION–AVIATION

APPROVED: Albert M.L. Beck DATE 5/10/17
ALBERT M.L. BECK, P.E. DESIGN GROUP CHIEF

BY	DATE	REVISIONS	FAA

BY	DATE	REVISIONS	FAA

GAMBELL AIRPORT
GAMBELL, ALASKA
AIRPORT AIRSPACE
(FAR PART 77)

SHEET 6 OF 6

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