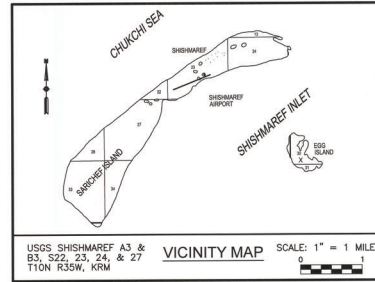
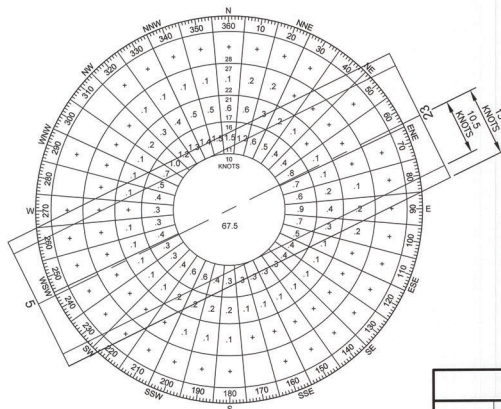
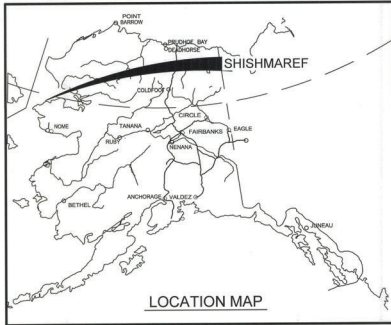


DRAWING NAME: R:\Info_Communications\Shishmaref\02_ALP_Fix\2018_Abb\Blt_ALP_V15\06m12.dwg - Revised ALP 12154FB - Revised ALP 12154FB - PLOTTED: Nov 15, 2018 - 10:00am



| WIND DATA | | |
|-----------|---------------|--------------|
| RUNWAY | 10.5 kt (A-I) | 13 kt (B-II) |
| 5/23 | 80.72% | 87.84% |

SOURCE: NOAA NATIONAL CLIMATE DATA CENTER
STATION NUMBER: PASH
PERIOD: 2004 - 2013

| MODIFICATION OF STANDARDS | | | | | |
|---------------------------|----------|----------|----------|------------|---------------|
| DESCRIPTION | STANDARD | EXISTING | ULTIMATE | AIRSPACE # | APPROVAL DATE |
| NONE | | | | | |

| GEOGRAPHIC COORDINATES (NAD 83) & ELEVATIONS (NAVD 88) | | | | | | |
|--|-------------------|--------------------|--------------------|-------------------|--------------------|--------------------|
| ITEM | EXISTING LATITUDE | EXISTING LONGITUDE | EXISTING ELEVATION | ULTIMATE LATITUDE | ULTIMATE LONGITUDE | ULTIMATE ELEVATION |
| AIRPORT REFERENCE POINT | 66°14'58.50"N | 166°05'21.70"W | N/A | 66°14'58.50"N | 166°05'21.78"W | SAME |
| THRESHOLD RW 5 | 66°14'47.54"N | 166°06'16.33"W | 13.8' | 66°14'47.53"N | 166°06'16.39"W | 14.0' |
| THRESHOLD RW 23 | 66°15'09.46"N | 166°04'27.16"W | 12.3' | 66°15'09.46"N | 166°04'27.15"W | 12.5' |

| PACS & SACS (PENDING APPROVAL) | | | | | | | | |
|--------------------------------|-------------|---------------|----------------|------------------|------------|------------|-----------|-------------|
| PID | DESIGNATION | LATITUDE | LONGITUDE | ELLIPSOID HEIGHT | NORTHING | EASTING | ELEVATION | DESCRIPTION |
| 1 | CP-1 | 66°14'57.13"N | 166°05'39.66"W | 9.727' | 4476953.53 | 1628500.50 | 9.727' | PACS |
| 2 | CP-2 | 66°15'07.23"N | 166°04'51.65"W | 10.703' | 4477977.71 | 1628468.87 | 10.703' | SACS |
| 3 | CP-3 | 66°14'51.80"N | 166°06'07.45"W | 10.895' | 4476413.64 | 1625361.15 | 10.895' | SACS |

NOTES

- THIS ALP DRAWING SET IS UPDATED BASED ON A WAAS LPV INSTRUMENT PROCEDURE DEVELOPMENT SURVEY COMPLETED BY WIPACIFIC IN 2010 AND A CONTROL AND TOPOGRAPHIC SURVEY PERFORMED BY PDC, INC. IN 2012, BOTH IN ACCORDANCE WITH FAA AC 150/5300-18B. THIS ALP WAS UPDATED IN ACCORDANCE WITH FAA AC 150/5300-13A AND 150/5070-6B IN MARCH 2015.
- VERTICAL DATUM IS NAVD 1988 USING GEOID12A.
- HORIZONTAL DATUM IS NAD83 (2011). DRAWING COORDINATES ARE ALASKA STATE PLANE ZONE 8, U.S. SURVEY FEET, UNLESS NOTED OTHERWISE.

| DECLARED DISTANCES | | | | | |
|--------------------|--------|-------|-------|-------|-------|
| | RUNWAY | TORA | TODA | ASDA | LDA |
| ULTIMATE | 5 | 5000' | 5000' | 5000' | 5000' |
| | 23 | 5000' | 5000' | 5000' | 5000' |
| EXISTING | 5 | 4997' | 4997' | 4997' | 4997' |
| | 23 | 4997' | 4997' | 4997' | 4997' |

| LEGEND | | |
|---------------------------------|----------|----------|
| ITEM | EXISTING | ULTIMATE |
| AIRPORT REFERENCE POINT (ARP) | | |
| ANTENNA | | |
| AWOS | | |
| BUILDING | | |
| BUILDING RESTRICTION LINE (BRL) | | |
| CENTER LINE | | |
| CONTOUR | | |
| CULVERT | | |
| FENCE | | |
| LEASE LOT LINE | | |
| LIGHT | | |
| MALSF | | |
| MONUMENT | | |
| PAVE | | |
| PIPE | | |
| POND | | |
| PROPERTY LINE | | |
| RAIL | | |
| ROADWAY | | |
| ROTATING BEACON | | |
| SHORELINE | | |
| SURVEY MONUMENT | | |
| THRESHOLD LIGHTS | | |
| TREE | | |
| UTILITY LIGHT POLE | | |
| VEGETATION / TREE LINE | | |
| WIND CONE | | |
| WIND CONE AND SEGMENTED CIRCLE | | |

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

| AIRPORT DATA | | |
|--|---|----------|
| ITEM | EXISTING | ULTIMATE |
| ICAO IDENTIFIER | PASH | SAME |
| NATIONAL AIRPORT IDENTIFIER | SSH | SAME |
| FAA SITE NUMBER | 50701.01A | SAME |
| AIRPORT REFERENCE CODE (ARC) | B-II | SAME |
| NPAAS SERVICE LEVEL (P, CS, R, GA) | CS | SAME |
| AIRPORT ELEVATION (NAVD88) | 13.8' | 14.0' |
| MEAN MAX. TEMPERATURE, HOTTEST MONTH | 51', JULY | SAME |
| OBSTRUCTION SURVEY SOURCE & TYPE | (SEE NOTES) | SAME |
| MAGNETIC DECLINATION, YEAR, RATE OF CHANGE | 12°34'42"E, 2010 0°15.1'W / YEAR | SAME |
| AIRPORT AND TERMINAL NAVIGATION AIDS | AWOS, WINDCONE, GPS, ROTATING BEACON | SAME |

| RUNWAY 5/23 DATA | | |
|---|-----------------------------|-----------------------------|
| 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 | SAME |
| RUNWAY DESIGN CODE (RDC) | B-II-5000 | SAME |
| APPROACH REFERENCE CODE (APRC) | B-II-5000 | SAME |
| DEPARTURE REFERENCE CODE (DPRC) | B-II | SAME |
| CRITICAL AIRCRAFT | CESSNA 208 | SAME |
| FAR PART 77 APPROACH SLOPE | 34:1/34:1 | SAME |
| APPROACH TSS SLOPE | 20:1/20:1 | SAME |
| DEPARTURE SURFACE SLOPE | 40:1/40:1 | SAME |
| VISIBILITY MINIMUM | ≥1 SM/≥1 SM | SAME |
| RUNWAY SURFACE | ASPHALT | SAME |
| PAVEMENT CLASSIFICATION NUMBER | N/A | 85/F/A/Y/U |
| TRUE MEAN BEARING | S 63°31'30" W | S 63°31'39.64" W |
| MAXIMUM ELEVATION (NAVD 88) | 14.1' | SAME |
| EFFECTIVE GRADE | 0.030% | SAME |
| RUNWAY TOUCHDOWN ZONE ELEVATIONS (NAVD 88) | RW 23: 13.8' RW 5: 13.1' | RW 23: 14.0' RW 5: 13.3' |
| RUNWAY DIMENSIONS | 73' x 4997' | 75' x 5000' |
| RUNWAY SAFETY AREA (RSA) DIMENSIONS | 150' x 5600' | SAME |
| RSA LENGTH BEYOND RW ENDS | 302'/301' | 300'/300' |
| RUNWAY PROTECTION ZONE (RPZ) DIMENSIONS | 1000'x500'x700' | SAME |
| RUNWAY OBJECT FREE AREA (ROFA) DIMENSIONS | 500' x 5597' | 500' x 5600' |
| ROFA LENGTH BEYOND RW ENDS | 300' | SAME |
| RUNWAY OBSTACLE FREE ZONE (ROFZ) DIMENSIONS | 400' x 5397' | 400' x 5400' |
| PRECISION OBJECT FREE ZONE (POFZ) DIMENSIONS | N/A | SAME |
| RUNWAY LIGHTING TYPE | MIRL | SAME |
| RUNWAY MARKING TYPE (P, NP, NONE) | NP | SAME |
| RUNWAY VISUAL APPROACH AIDS | VASI | VASI |

| TAXIWAY DATA | | |
|---------------------------------------|--------------|----------|
| ITEM | EXISTING | ULTIMATE |
| TAXIWAY DESIGN GROUP | 1B | SAME |
| TAXIWAY DIMENSIONS | 35' x 262.5' | SAME |
| TAXIWAY SHOULDER WIDTH | 10' | SAME |
| SEPARATION FROM PARALLEL RUNWAY | N/A | SAME |
| TAXIWAY (TSA) WIDTH | 79' | SAME |
| TAXIWAY OBJECT FREE AREA (TOFA) WIDTH | 131' | SAME |
| TAXIWAY LIGHTING | MTL | SAME |
| TAXIWAY MARKING | CENTERLINE | SAME |

| NON-STANDARD CONDITIONS | | | |
|--------------------------|----------|----------|----------|
| ITEM | STANDARD | EXISTING | ULTIMATE |
| LANDFILL SEPARATION | 5,000' | 1,900' | SAME |
| SEWAGE LAGOON SEPARATION | 5,000' | 630' | SAME |

| | |
|--------------|---------------------------|
| DESIGN: CGB | |
| DRAWN: EJM | |
| CHECKED: KAR | |
| KC 08/30/18 | UPDATED PROPERTY BOUNDARY |
| BY DATE | REVISIONS |

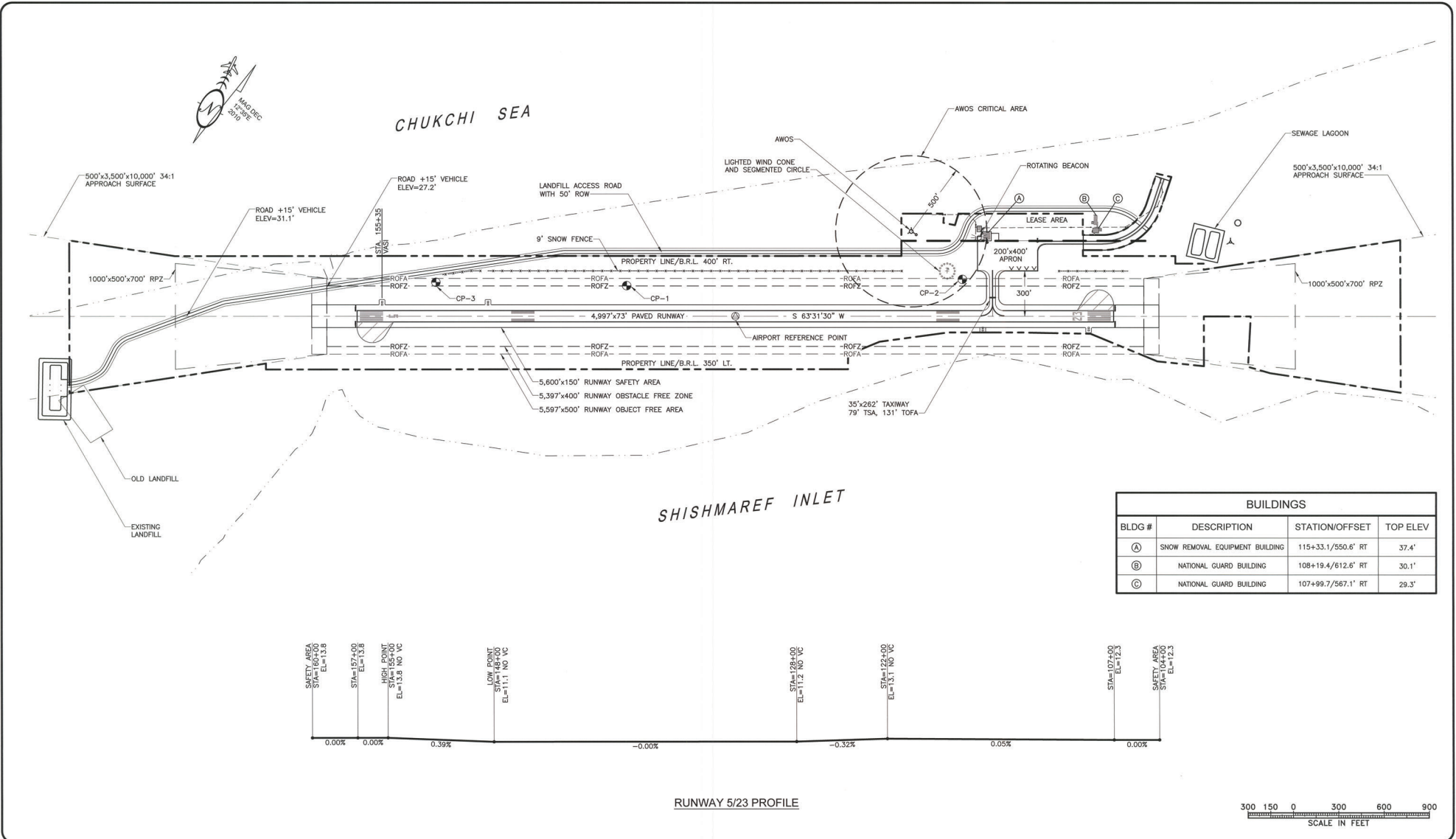
STATE OF ALASKA
DEPARTMENT OF TRANSPORTATION AND PUBLIC FACILITIES
NORTHERN REGION

APPROVED: *Albert M.L. Beck* DATE: 12/6/18
ALBERT M.L. BECK, P.E. DESIGN GROUP CHIEF

ORIGINAL AIRPORT LAYOUT PLAN CONDITIONAL APPROVAL SUBJECT TO ALP APPROVAL LETTER DATED 6/23/15.
FAA AIRSPACE REVIEW NUMBER: 2015-ALC-98-NRA
AS-BUILT ACCEPTED 2/27/19
DATE: 2/27/19
FAA, AIRPORTS DIVISION ALASKAN REGION, AAL

SHISHMAREF AIRPORT
SHISHMAREF, ALASKA
AIRPORT DATA

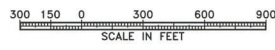
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| BUILDINGS | | | |
|-----------|---------------------------------|--------------------|----------|
| BLDG # | DESCRIPTION | STATION/OFFSET | TOP ELEV |
| Ⓐ | SNOW REMOVAL EQUIPMENT BUILDING | 115+33.1/550.6' RT | 37.4' |
| Ⓑ | NATIONAL GUARD BUILDING | 108+19.4/612.6' RT | 30.1' |
| Ⓒ | NATIONAL GUARD BUILDING | 107+99.7/567.1' RT | 29.3' |



RUNWAY 5/23 PROFILE



| | | | |
|---------|----------|---------------------------|--|
| DESIGN | CGB | | |
| DRAWN | EJM | | |
| CHECKED | KAR | | |
| BY | DATE | REVISIONS | |
| KC | 08/30/18 | UPDATED PROPERTY BOUNDARY | |

STATE OF ALASKA
DEPARTMENT OF TRANSPORTATION AND PUBLIC FACILITIES
NORTHERN REGION

APPROVED
Albert M.L. Beck
ALBERT M.L. BECK, P.E.

DATE: 12/6/18
DESIGN GROUP CHIEF

AIRPORT LAYOUT PLAN CONDITIONAL APPROVAL SUBJECT TO
ALP APPROVAL LETTER DATED: ___/___/___
FAA AIRSPACE REVIEW NUMBER: _____

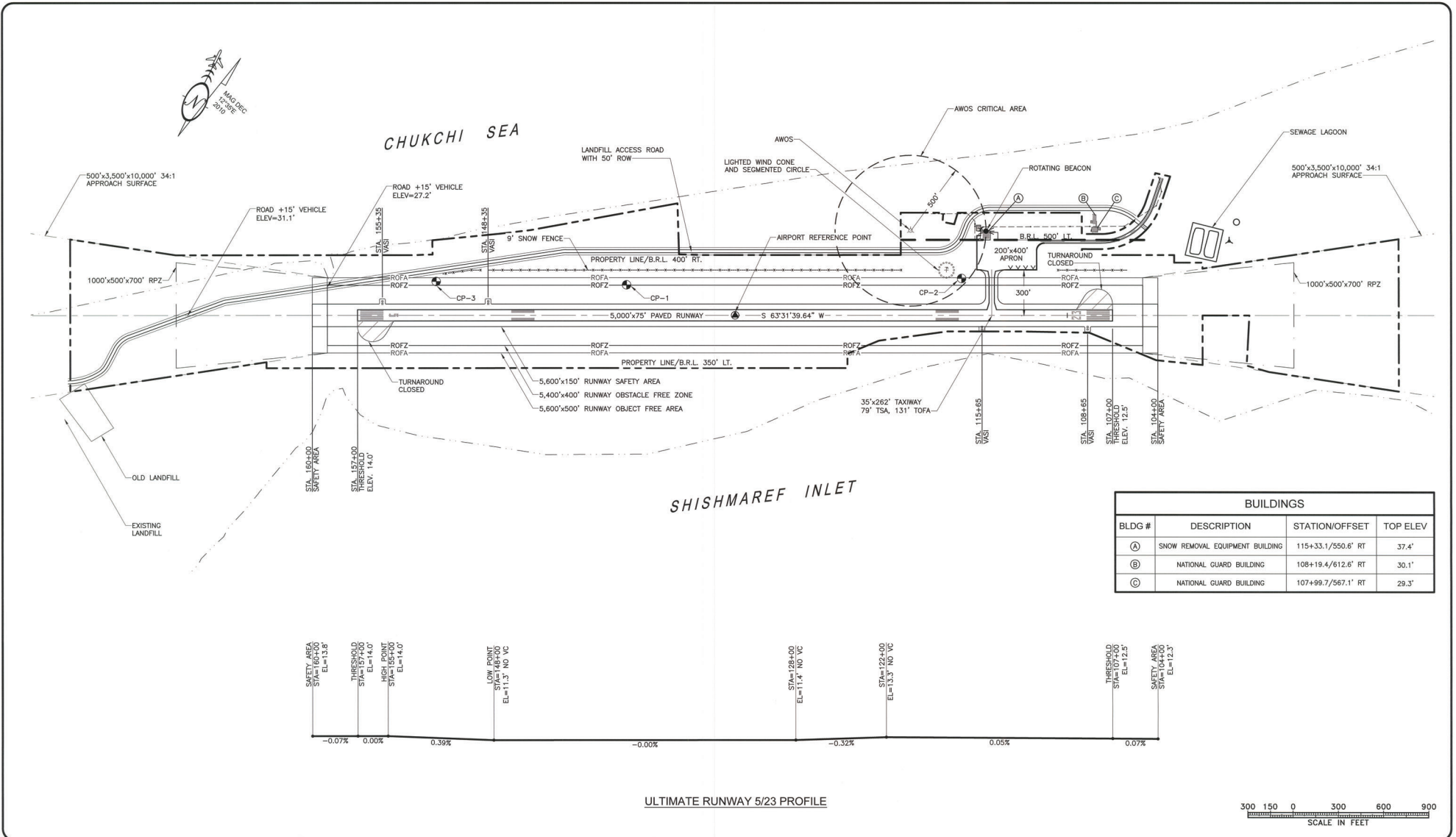
DATE: _____
FAA, AIRPORTS DIVISION ALASKAN REGION, AAL-

SHISHMAREF AIRPORT
SHISHMAREF, ALASKA

EXISTING AIRPORT LAYOUT PLAN

SHEET
2
OF
6

DRAWING NAME: R:\Info_Communities\Shishmaref\02 ALP_Fin_2018_A4\Buil_ALP\1506m12d - Revised ALP Drawings\0001.dwg PLOTTED: Nov 15, 2018 - 10:10am



| | | |
|---------|----------|---------------------------|
| DESIGN | CGB | |
| DRAWN | EJM | |
| CHECKED | KAR | |
| KC | 08/30/18 | UPDATED PROPERTY BOUNDARY |
| BY | DATE | REVISIONS |

STATE OF ALASKA
DEPARTMENT OF TRANSPORTATION AND PUBLIC FACILITIES
NORTHERN REGION

APPROVED
Albert M.L. Beck
ALBERT M.L. BECK, P.E.

DATE: 12/1/18
DESIGN GROUP CHIEF

APPROVAL LETTER DATED: _____
FAA AIRSPACE REVIEW NUMBER: _____

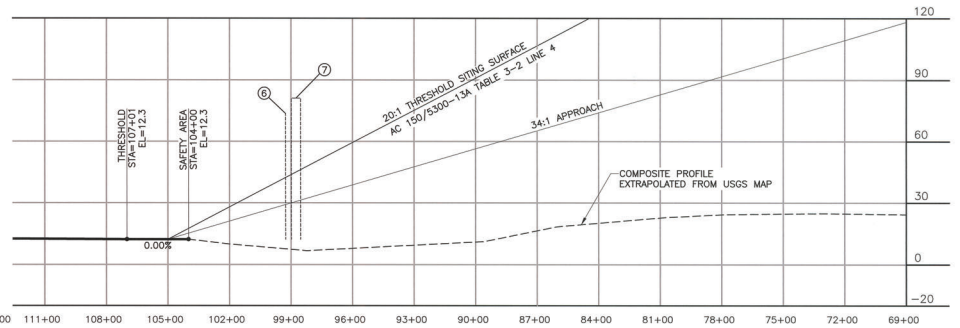
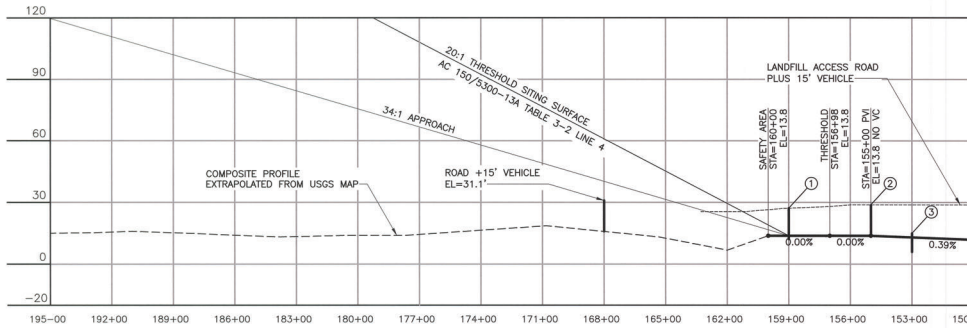
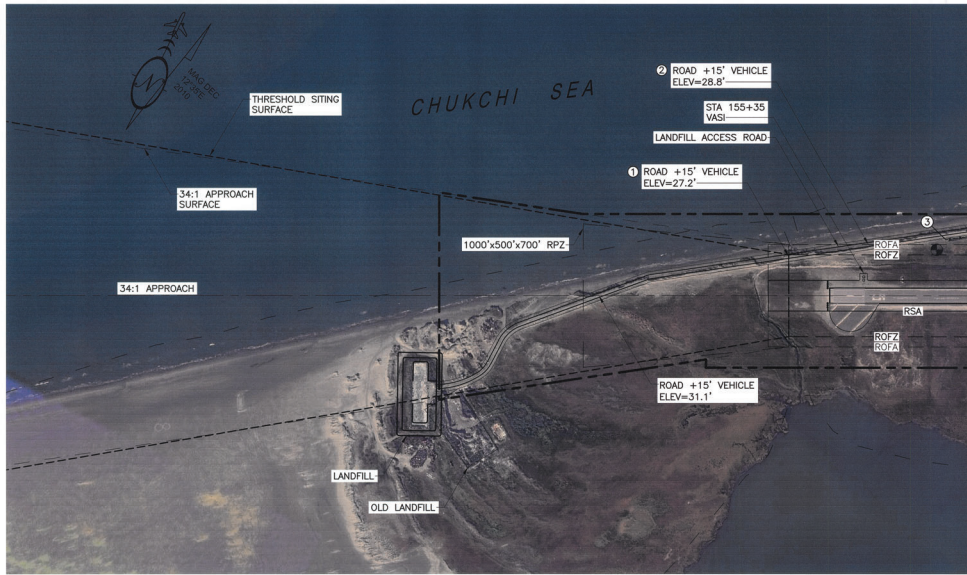
DATE: _____
FAA, AIRPORTS DIVISION ALASKAN REGION, AAL-

SHISHMAREF AIRPORT
SHISHMAREF, ALASKA

ULTIMATE AIRPORT LAYOUT PLAN

SHEET
3
OF
6

DRAWING NAME: R:\Info_Communities\Shishmaref\02_ALP_Fin_2018_Aerial_ALP_1506m12d - Revised ALP Drawings\CD0010912154FB.dwg PLOTTED: Nov 15, 2018 - 10:09am



| ID# | DESCRIPTION | STATION/OFFSET | ELEV. | SURFACE ELEV. | SURFACE PENETRATED | SURFACE PENETRATION | DISPOSITION |
|-----|-------------|------------------|-------|---------------|-----------------------|---------------------|-------------|
| ① | ROAD +15' | 159+00/192.6' RT | 27.2' | 13.8' | APPROACH, PRIMARY | 13.4' | TO REMAIN |
| ② | ROAD +15' | 155+07/250.0' RT | 28.8' | 13.8' | PRIMARY, TRANSITIONAL | 15.0' | TO REMAIN |
| ③ | SNOW FENCE | 151+43/273.3' RT | 19.8' | 15.7' | TRANSITIONAL | 3.9' | TO REMAIN |

GENERAL NOTES:

- OBSTRUCTIONS WERE SURVEYED IN 2010 AS PART OF INSTRUMENT PROCEDURE DEVELOPMENT SURVEY.
- THERE ARE NO THRESHOLD SITING SURFACE OBJECT PENETRATIONS FOR RUNWAY 23.

| ID# | DESCRIPTION | STATION/OFFSET | ELEV. | SURFACE ELEV. | SURFACE PENETRATED | SURFACE PENETRATION | DISPOSITION |
|-----|-------------|-----------------|-------|---------------|--------------------|---------------------|-------------|
| ⑥ | ANTENNA | 99+27/492.1' RT | 73.6' | 51.5' | TRANSITIONAL | 22.1' | TO REMAIN |
| ⑦ | TANK | 98+88/624.4' RT | 81.1' | 70.7' | TRANSITIONAL | 10.4' | TO REMAIN |

| | |
|--------------|---------------------------|
| DESIGN: CGB | |
| DRAWN: EJM | |
| CHECKED: KAR | |
| KC 08/30/18 | UPDATED PROPERTY BOUNDARY |
| BY DATE | REVISIONS |

STATE OF ALASKA
DEPARTMENT OF TRANSPORTATION AND PUBLIC FACILITIES
NORTHERN REGION

APPROVED
Albert M.L. Beck
ALBERT M.L. BECK, P.E.

DATE *12/6/18*
DESIGN GROUP CHIEF

AIRPORT LAYOUT PLAN CONDITIONAL APPROVAL SUBJECT TO ALP APPROVAL LETTER DATED _____
FAA AIRSPACE REVIEW NUMBER: _____

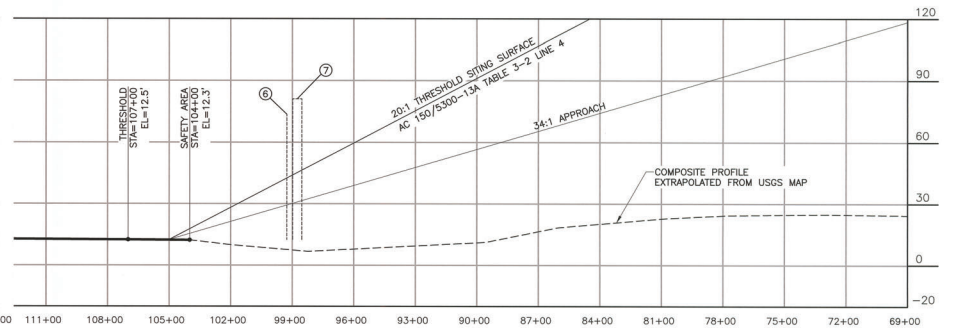
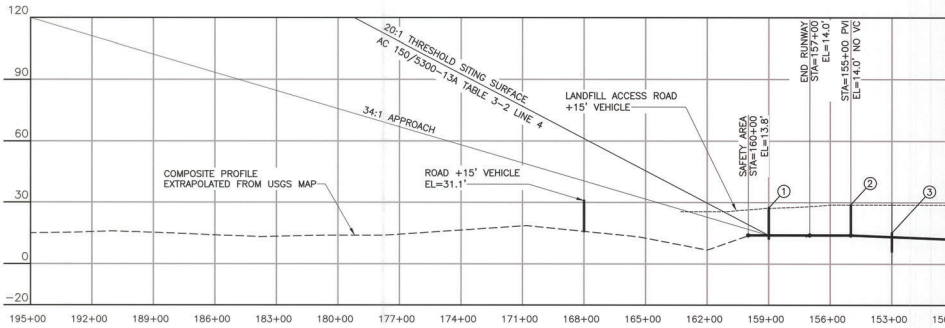
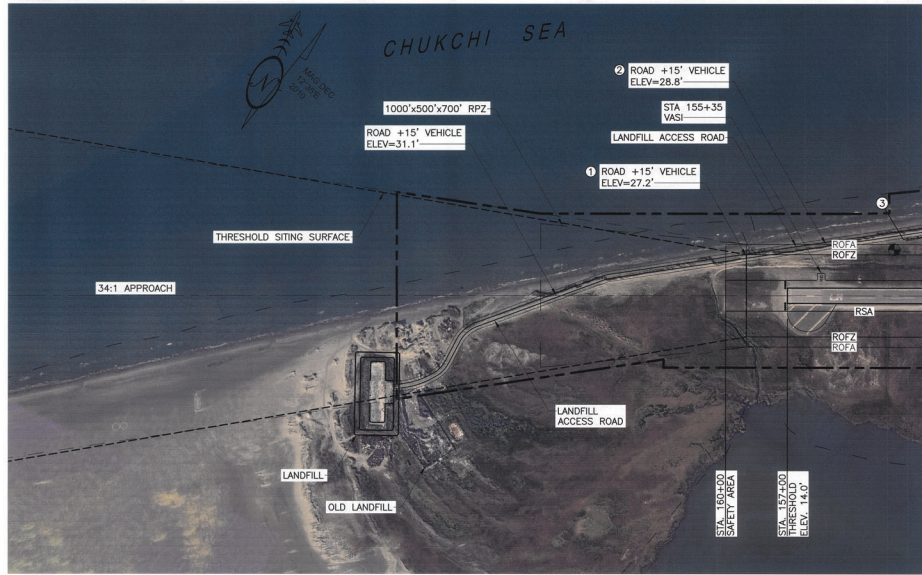
DATE: _____
FAA, AIRPORTS DIVISION ALASKAN REGION, AAL-

SHISHMAREF AIRPORT
SHISHMAREF, ALASKA

EXISTING INNER PORTION OF APPROACH SURFACE

SHEET
4 OF **6**

DRAWING NAME: R:\Info_Communications\Shishmaref\02_ALP_Fin_2018_Abbill\ALP_1506m124 - Revised ALP_12154FB - Revised ALP Drawings\0001\0912154FB.dwg PLOTTED: Nov 15, 2018 - 10:09am



| ID# | DESCRIPTION | STATION/OFFSET | ELEV. | SURFACE ELEV. | SURFACE PENETRATED | SURFACE PENETRATION | DISPOSITION |
|-----|-------------|------------------|-------|---------------|-----------------------|---------------------|-------------|
| ① | ROAD +15' | 159+00/192.6' RT | 27.2' | 14.0' | APPROACH, PRIMARY | 13.2' | TO REMAIN |
| ② | ROAD +15' | 155+07/250' RT | 28.8' | 14.0' | PRIMARY, TRANSITIONAL | 14.8' | TO REMAIN |
| ③ | SNOW FENCE | 151+43/273.3' RT | 19.8' | 15.9' | TRANSITIONAL | 3.7' | TO REMAIN |

GENERAL NOTES:

- OBSTRUCTIONS WERE SURVEYED IN 2010 AS PART OF INSTRUMENT PROCEDURE DEVELOPMENT SURVEY.
- THERE ARE NO THRESHOLD SITING SURFACE OBJECT PENETRATIONS FOR RUNWAY 23.

| ID# | DESCRIPTION | STATION/OFFSET | ELEV. | SURFACE ELEV. | SURFACE PENETRATED | SURFACE PENETRATION | DISPOSITION |
|-----|-------------|----------------|-------|---------------|--------------------|---------------------|-------------|
| ⑥ | ANTENNA | 99+27/492.1 RT | 73.6' | 51.7' | TRANSITIONAL | 21.9' | TO REMAIN |
| ⑦ | TANK | 98+88/624.4 RT | 81.1' | 70.9' | TRANSITIONAL | 10.2' | TO REMAIN |

DESIGN: CGB

DRAWN: EJM

CHECKED: KAR

KC 06/30/18 UPDATED PROPERTY BOUNDARY

BY DATE REVISIONS

STATE OF ALASKA
DEPARTMENT OF TRANSPORTATION AND PUBLIC FACILITIES
NORTHERN REGION

APPROVED
Albert M.L. Beck
ALBERT M.L. BECK, P.E.

DATE *12/6/18*
DESIGN GROUP CHIEF

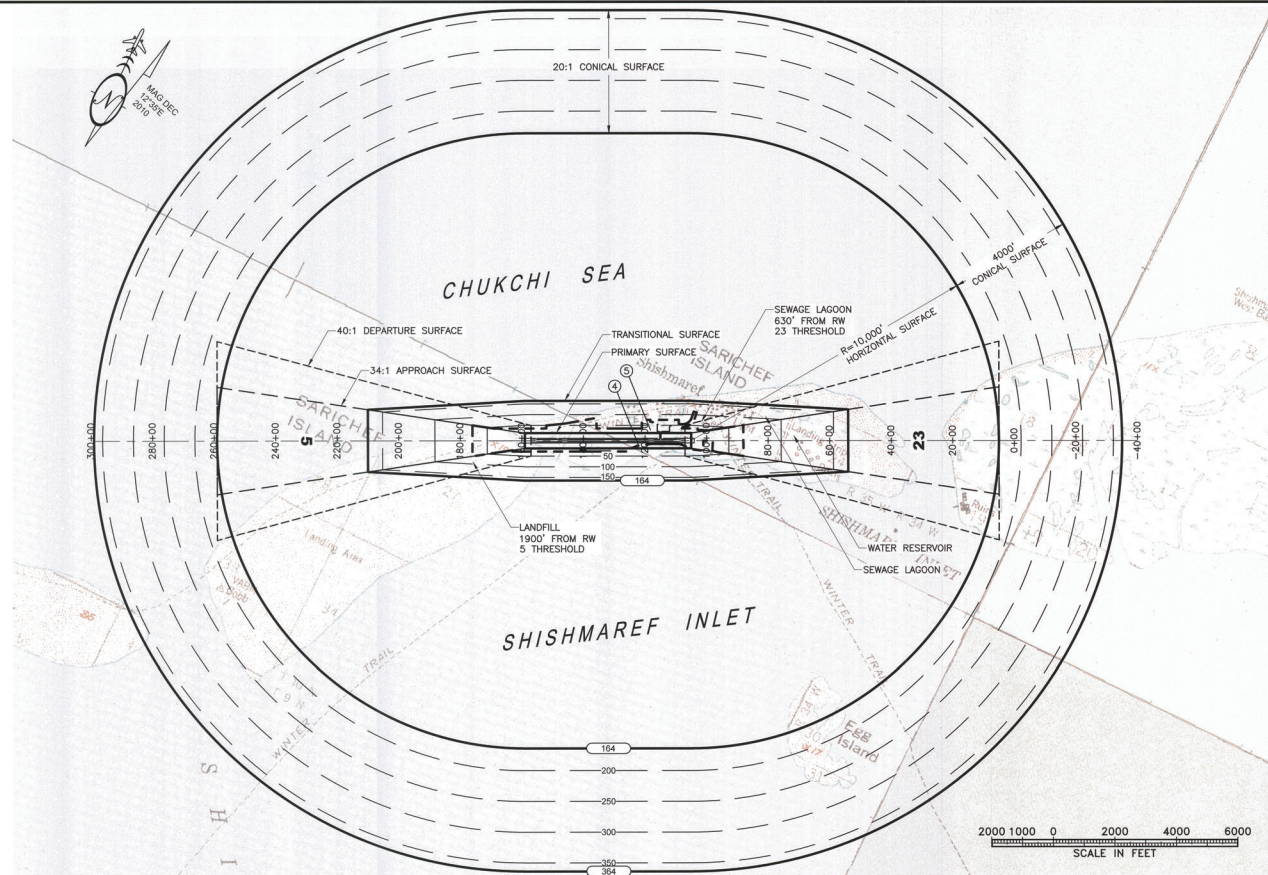
AIRPORT LAYOUT PLAN CONDITIONAL APPROVAL SUBJECT TO
ALP APPROVAL LETTER DATED ___/___/___
FAA AIRSPACE REVIEW NUMBER: _____

DATE: _____
FAA, AIRPORTS DIVISION ALASKAN REGION, AAL-

SHISHMAREF AIRPORT
SHISHMAREF, ALASKA

**ULTIMATE INNER PORTION OF
APPROACH SURFACE**

DRAWING NAME: R:\Info_Communities\Shishmaref\02_ALP_Fin_2018_LasBull_ALP\1506m12d - Revised ALP Drawings\C0001\0112154\FB.dwg PLOTTED: Nov 15, 2018 - 10:10am

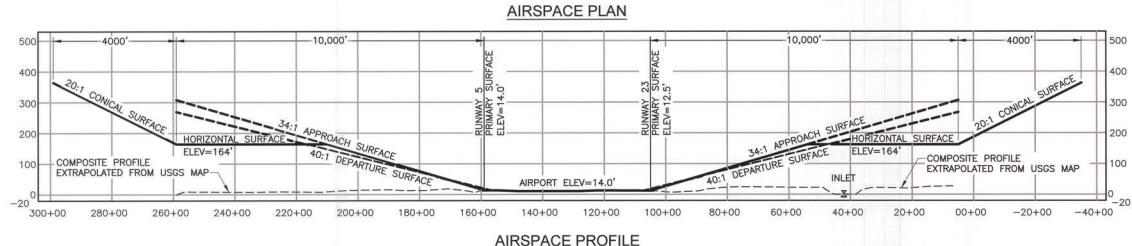


| LEGEND | |
|--------|---|
| | AIRSPACE ELEVATION (SURFACE DIVIDERS) |
| | AIRSPACE SURFACE DIVIDERS (NON CONTROLLING) |
| | AIRSPACE ELEVATION (50' INCREMENTS) |
| | EXISTING GROUND ELEVATIONS |
| | RUNWAY CENTERLINE (EXTENDED) |

| ULTIMATE RUNWAY F.A.R. PART 77 DIMENSIONS UTILITY, NPA, >1 S.M. | |
|--|--------------------------|
| DESCRIPTION | DIMENSION |
| ESTABLISHED AIRPORT ELEVATION | 14.0' |
| RUNWAY THRESHOLD ELEVATION | RWS: 14.0' \ RW23: 12.5' |
| PRIMARY SURFACE | 500'x5400' |
| HORIZONTAL SURFACE ELEVATION | 164.0' |
| HORIZONTAL SURFACE RADIUS | 10,000' |
| APPROACH SURFACE | 500'x3500'x10000' |
| APPROACH SURFACE SLOPE | 34:1 |
| CONICAL SURFACE WIDTH | 4000' @ 20:1 |
| TRANSITIONAL SURFACE SLOPE | 7:1 |

| F.A.R. PART 77 SURFACE OBSTRUCTION TABLE | | | | | | | |
|--|--------------------|------------------|-------|---------------|-----------------------|---------------------|-------------|
| ID# | DESCRIPTION | STATION/OFFSET | ELEV. | SURFACE ELEV. | SURFACE PENETRATED | SURFACE PENETRATION | DISPOSITION |
| ① | ROAD +15' | 159+00/192.6' RT | 27.2' | 14.0' | APPROACH, PRIMARY | 13.2' | TO REMAIN |
| ② | ROAD +15' | 155+07/250.0' RT | 28.8' | 14.0' | PRIMARY, TRANSITIONAL | 14.8' | TO REMAIN |
| ③ | SNOW FENCE | 151+43/273.3' RT | 19.6' | 15.9' | TRANSITIONAL | 3.7' | TO REMAIN |
| ④ | NATURAL HIGH POINT | 121+16/239.9' RT | 14.9' | 13.3' | PRIMARY | 1.6' | TO REMAIN |
| ⑤ | LIGHTED WINDCONE | 117+98/300.8' RT | 31.6' | 20.4' | TRANSITIONAL | 11.2' | TO REMAIN |
| ⑥ | ANTENNA | 99+27/492.1' RT | 73.6' | 51.7' | TRANSITIONAL | 21.9' | TO REMAIN |
| ⑦ | TANK | 98+88/624.4' RT | 81.1' | 70.9' | TRANSITIONAL | 10.2' | TO REMAIN |

- NOTES:
- REFER TO INNER PORTION OF APPROACH SURFACE (SHEETS 4 & 5) FOR CLOSE IN OBSTRUCTIONS.
 - THERE ARE NO KNOWN HEIGHT RESTRICTIONS.
 - REFER TO THE AIRPORT LAYOUT PLAN (SHEETS 2 & 3) FOR BUILDING LOCATIONS AND ELEVATIONS.
 - MAPPING IS FROM USGS SHISHMAREF A-2, A-3, B-2, B-3.



| | |
|---------|-----|
| DESIGN | CGB |
| DRAWN | EJM |
| CHECKED | KAR |

STATE OF ALASKA
DEPARTMENT OF TRANSPORTATION AND PUBLIC FACILITIES
NORTHERN REGION

APPROVED: *Albert M.L. Beck* DATE: 12/6/18
ALBERT M.L. BECK, P.E. DESIGN GROUP CHIEF

AIRPORT LAYOUT PLAN CONDITIONAL APPROVAL SUBJECT TO
ALP APPROVAL LETTER DATED: / /
FAA AIRSPACE REVIEW NUMBER: / /

DATE: / /
FAA, AIRPORTS DIVISION ALASKAN REGION, AAL

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

SHEET
6 OF 6