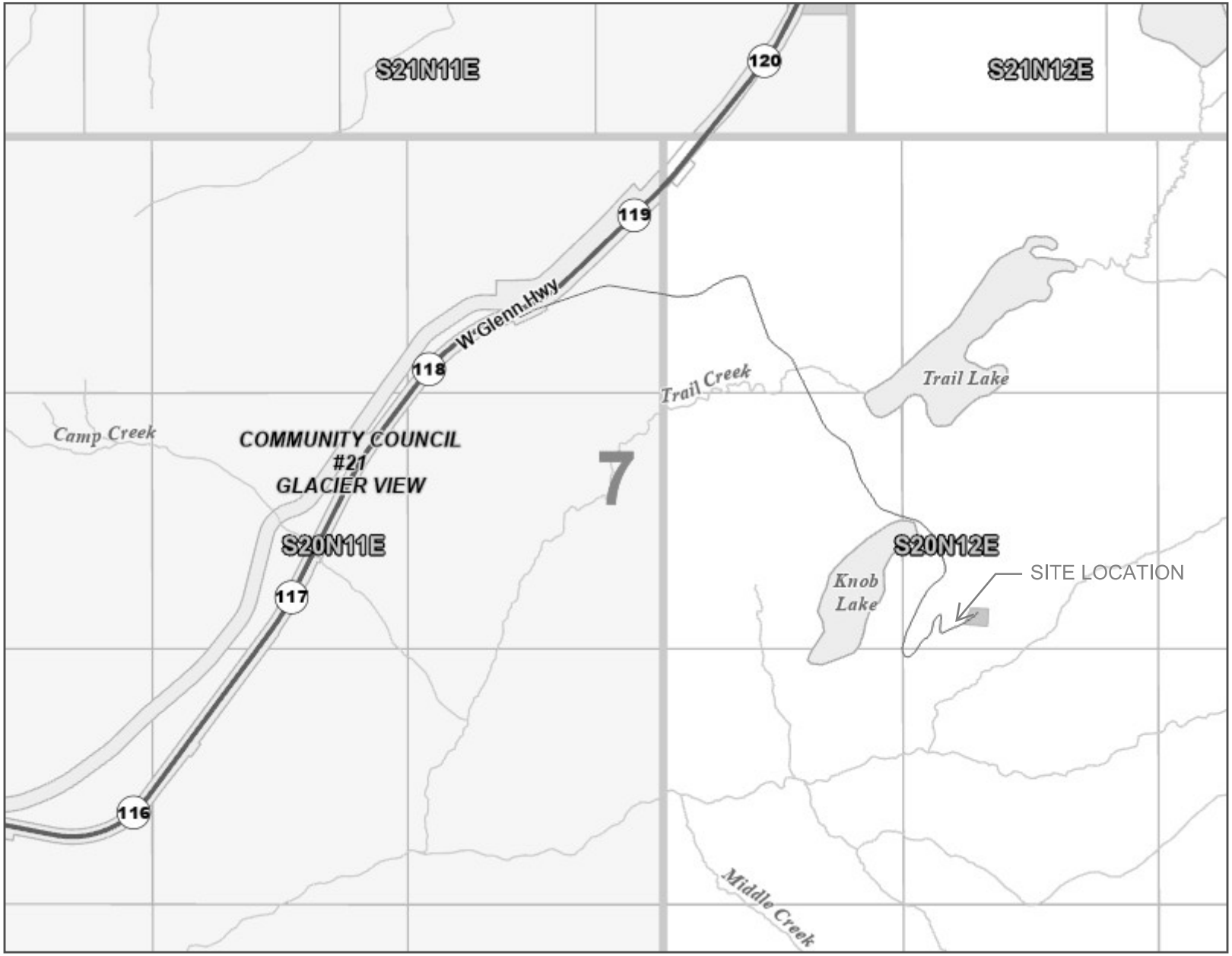
Maps

Matanuska-Susitna Borough, AK

Community Council Map



7

COMMUNITY COUNCIL
#21
GLACIER VIEW

Legend

Parcel Viewer

- Road Mileposts
- Highway
- Minor Road
- Mat-Su Borough Boundary
- Assembly District
- Lakes and Rivers
- Streams
- Private
- Unknown
- Waterbodies
- Glacier View

THIS MAP IS NOT TO BE USED FOR NAVIGATION

0 0.6 1.2 1.8 2.4 mi

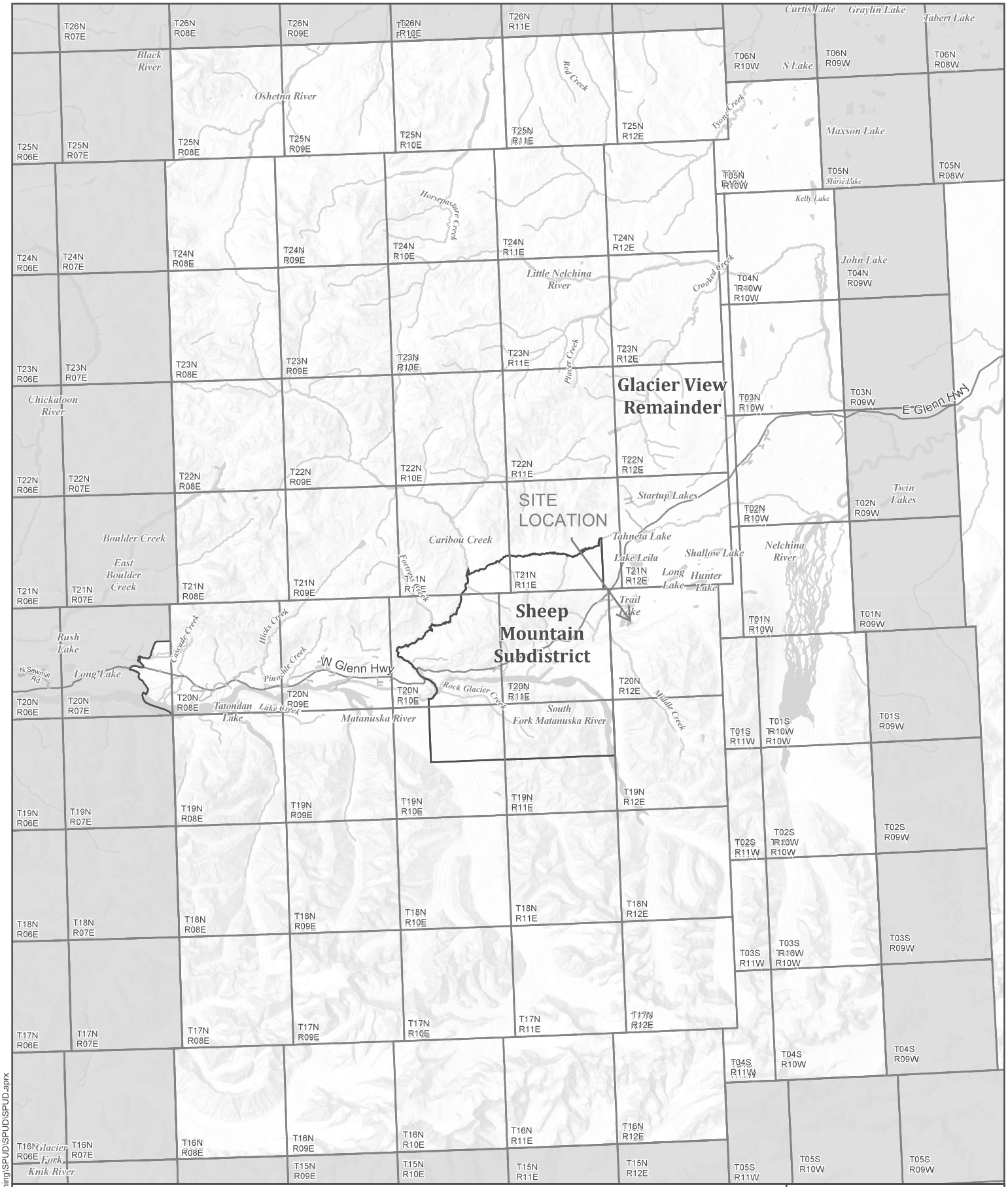
N

NAD 1983 State Plane Alaska 4 FIPS 5004 Feet

Notes

Generated on 19.05.2026 (dd/mm/yyyy)

Site location outside community council area



Matanuska-Susitna Borough - Informational Map

SPECIAL LAND USE DISTRICT MSB 17.19
GLACIER VIEW
MSB ORDINANCE NO. 07-056 & 95-102

Map produced by MSB IT Department/GIS Division
Last Updated: 9/17/2024

Path: M:\Product\Planning\SPUD\SPUD.aprx

MATANUSKA-SUSITNA BOROUGH
EUREKA
TELECOMMUNICATIONS TOWER

ZONING DRAWINGS

TBD W ALASCOM RD
EUREKA, AK

61° 49' 56.22" N, 147° 19' 43.60" W
(GOOGLE EARTH)

PROJECT SUMMARY

PROJECT SCOPE INCLUDES INSTALLATION OF:
- (1) U-10 x 120' SELF-SUPPORTING TOWER AND ASSOCIATED TOWER FOUNDATION
- (1) ~30' ICE BRIDGE FROM EXISTING AKDPS SHELTER TO TOWER
- (1) 8' SECURITY FENCE AROUND COMPOUND
- (1) ELECTRICAL METER REPAIR/UPGRADE (AS REQUIRED)
- TOWER AND ICE BRIDGE GROUNDING

PROJECT INFORMATION

MSB PARCEL ID:	13166
PROPERTY OWNER:	AKDNR DIVISION OF MINING, LAND & WATER
LESSEE:	AK DEPARTMENT OF PUBLIC SAFETY
APPLICANT:	MATANUSKA-SUSITNA BOROUGH
LEGAL DESCRIPTION:	ILMA NO. 229350 (PLAT # 2010-55) LOCATED WITHIN UNSURVEYED SECTION 8, TRACT A, T20N, R12E, SEWARD MERIDIAN, AK, PALMER RECORDING DISTRICT, CONTAINING 1.99 ACRES
FCC ASR:	TBD
TOWER HEIGHT:	125' AGL (MAX)

CODE INFORMATION

JURISDICTION:	MATANUSKA-SUSITNA BOROUGH (MSB)
ZONING CLASSIFICATION:	GENERAL USE - TALL STRUCTURES
APPLICABLE CODES:	2021 IBC W/ AK ADOPTED AMENDMENTS 2020 IBC W/ AK ADOPTED AMENDMENTS
CONSTRUCTION:	V-B
OCCUPANCY:	U

CONTACT INFORMATION

CIVIL/ELECTRICAL ENGINEERING & PERMITTING:
NEW HORIZONS TELECOM, INC
901 COPE INDUSTRIAL WAY
PALMER, AK 99645
(907) 761-6000
LICENSE # AECC610

CIVIL
JENNIFER C MORIGEAU, PE
(907) 761-6052
JMORIGEAU@NEWHORIZONS.IO

ELECTRICAL
PATRICK T GOODYEAR, PE
(907) 761-6070
PGOODYEAR@NEWHORIZONS.IO

PERMITTING
SIERRA LARSON
(907) 761-6054
SLARSON@NEWHORIZONS.IO

PROJECT MANAGER
JUHREE PSENAK
(907) 761-6073
JPSENAK@NEWHORIZONS.IO

STRUCTURAL/GEOTECHNICAL ENGINEERING:
DEVISE ENGINEERING
8301 SCHOON STREET, STE 200
ANCHORAGE, AK 99518
(907) 302-0455
LICENSE # 219671

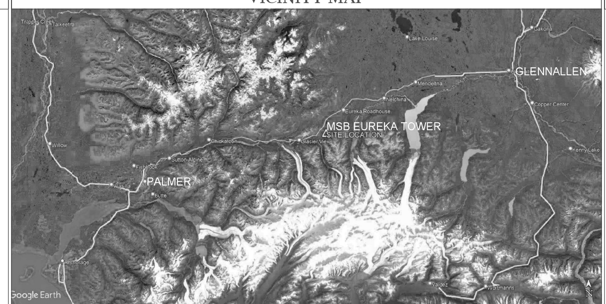
STRUCTURAL
NICHOLAS CHOROMANSKI, PE, SE
(907) 302-1570
NCHOROMANSKI@DEVISE-ENG.COM

GEOTECHNICAL
STEVEN HALCOMB, PE, GE, BC.GE
(907) 302-1852
SHALCOMB@DEVISE-ENG.COM

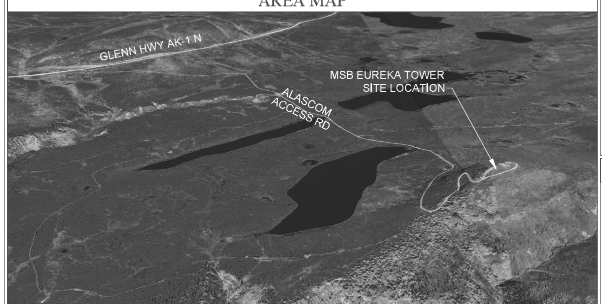
PROJECT OWNER:
MATANUSKA SUSITNA-BOROUGH
533 E FIREWEED AVE
PALMER, AK 99645

CONSTRUCTION PROJECT MANAGER
DONALD JOURDIAN
(907) 982-3253
DONALD.JOURDIAN@MATSUGOV.US

VICINITY MAP



AREA MAP



DIRECTIONS TO SITE

FROM ANCHORAGE TAKE THE GLENN HWY (AK-1) TOWARDS PALMER/WASILLA (34 MI FROM MP 0 AT WEST END OF MERRILL FIELD)
USE RIGHT 2 LANES TO TAKE AK-1 E EXIT TOWARD PALMER/GLENNALLEN (1.0 MI)
CONTINUE ONTO AK-1 N (75.8 MI)
TURN RIGHT ONTO W ALASCOM RD / ALASCOM ACCESS RD (~MP 118.5) (3.2 MI)
ACCESS DRIVE TO SITE ON LEFT

DRAWING INDEX

ATTACHED REFERENCE DRAWINGS

DESCRIPTION
RECORD OF SURVEY OF ILMA NO. 229350 (PLAT # 2010-55, PALMER RECORDING DISTRICT)

FULL SCALE (22"x34")
HALF SCALE (11"x17")

NEW HORIZONS

NOT FOR CONSTRUCTION

DWN: JAA | DSN: JCM | APP: JCM
JOB #: 26-0045-10 | DATE: 260507

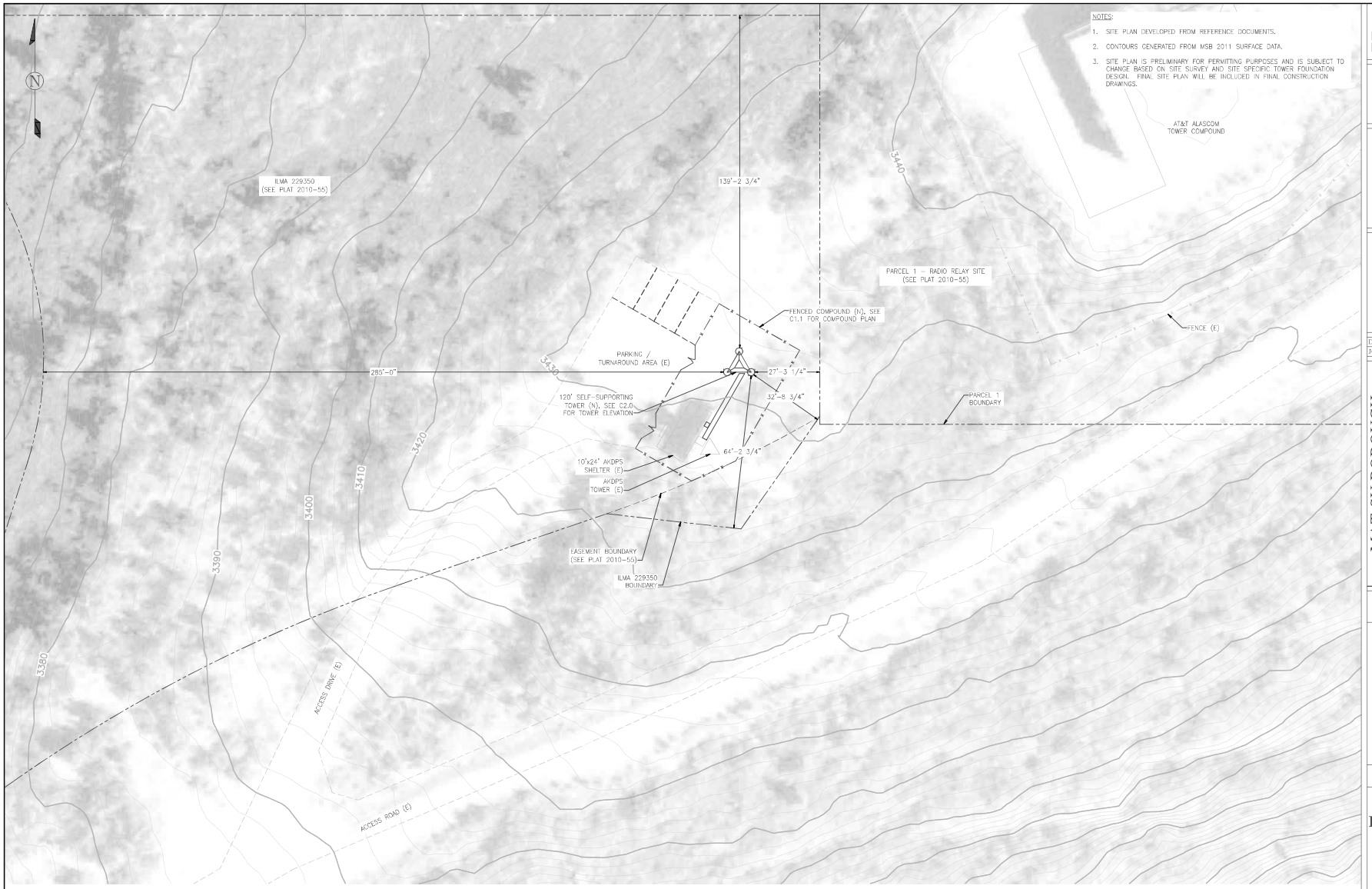
MAT-SU BOROUGH
EUREKA
TELECOM TOWER
IFP
ZONING DRAWINGS

REV	DESCRIPTION	DATE
A	ISSUE FOR PERMITTING	260507
B	UPDATED TOWER/FENCE LOCATION	260519

TITLE SHEET

T1.0

FILE: X:\26 JOBS\26-0045-10 MSB - DESIGN BUILD EUREKA TELECOMMUNICATIONS TOWER\03-ENGR\CAD\04 - ZONING DRAWINGS\T1.0 TITLE SHEET.DWG PLOT DATE: 260518



NOTES:

1. SITE PLAN DEVELOPED FROM REFERENCE DOCUMENTS.
2. CONTOURS GENERATED FROM MSB 2011 SURFACE DATA.
3. SITE PLAN IS PRELIMINARY FOR PERMITTING PURPOSES AND IS SUBJECT TO CHANGE BASED ON SITE SURVEY AND SITE SPECIFIC TOWER FOUNDATION DESIGN. FINAL SITE PLAN WILL BE INCLUDED IN FINAL CONSTRUCTION DRAWINGS.

1 / C1.0 PRELIMINARY SITE PLAN
SCALE: 1" = 20'

SCALE: 1" = 20'
0 10 20 40
FULL SCALE (22"x34")
HALF SCALE (11"x17")

NEW HORIZONS

NOT FOR CONSTRUCTION

DWN: JAA	DSN: JCM	APP: JCM
JOB #: 264045-10		DATE: 260507

MAT-SU BOROUGH
EUREKA
TELECOM TOWER
IFP
ZONING DRAWINGS

REV	DESCRIPTION	DATE
A	ISSUE FOR PERMITTING	260507
B	UPDATED TOWER/FENCE LOCATION	260519

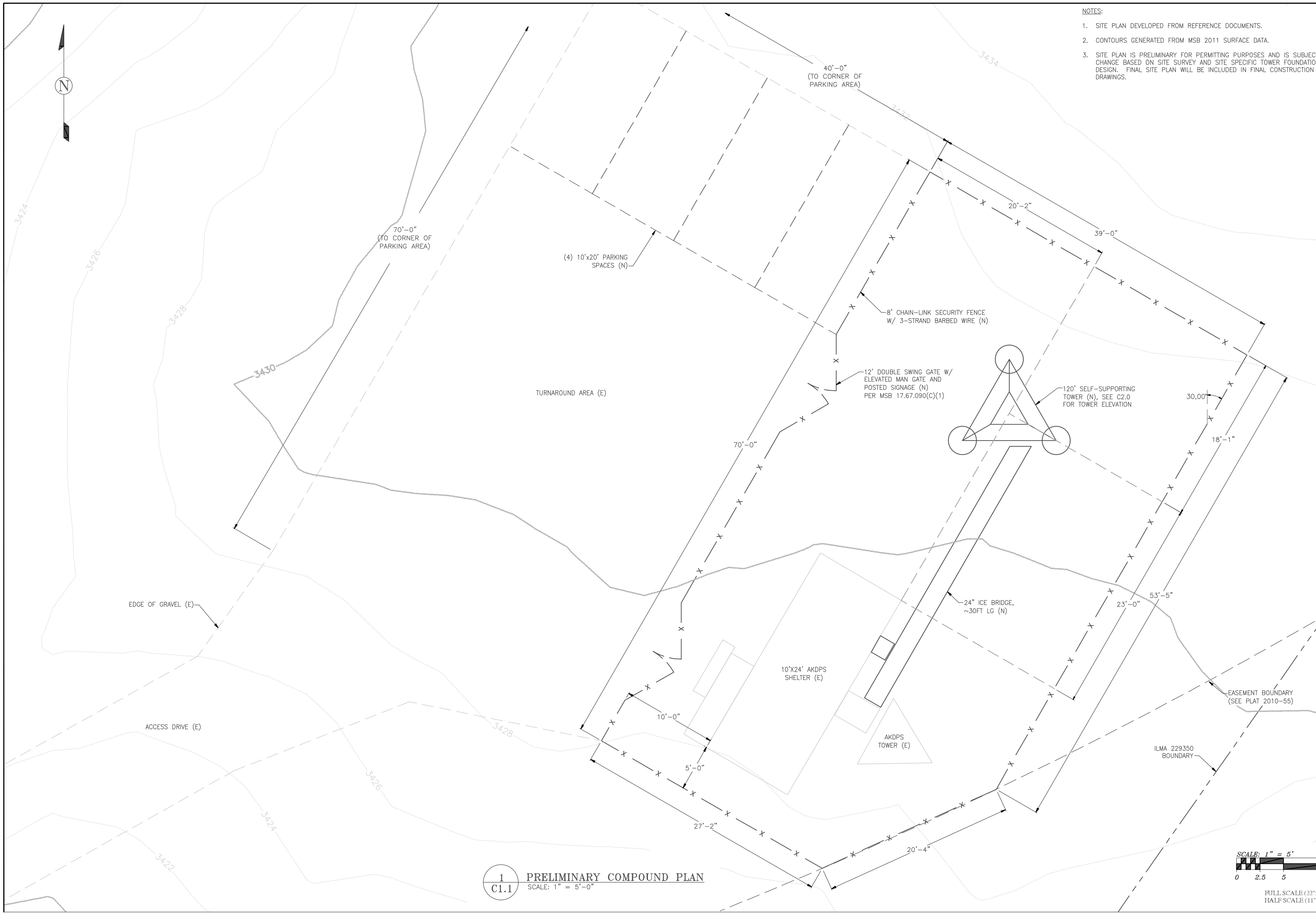
PRELIMINARY
SITE
PLAN

C1.0

FILE: X:\06 EOA\264045-10 MSB - DESIGN BUILD EUREKA TELECOMMUNICATIONS TOWER\04-DWG\CAD\264045 - ZONING DRAWINGS\C1.0 PERMITTING SITE PLAN.DWG | PLOT DATE: 260518

NOTES:

1. SITE PLAN DEVELOPED FROM REFERENCE DOCUMENTS.
2. CONTOURS GENERATED FROM MSB 2011 SURFACE DATA.
3. SITE PLAN IS PRELIMINARY FOR PERMITTING PURPOSES AND IS SUBJECT TO CHANGE BASED ON SITE SURVEY AND SITE SPECIFIC TOWER FOUNDATION DESIGN. FINAL SITE PLAN WILL BE INCLUDED IN FINAL CONSTRUCTION DRAWINGS.



1 / C1.1 PRELIMINARY COMPOUND PLAN
SCALE: 1" = 5'-0"

NEW HORIZONS

NOT FOR CONSTRUCTION

DWN: JAA	DSN: JCM	APP: JCM
JOB #: 26-0045-10		DATE: 260507

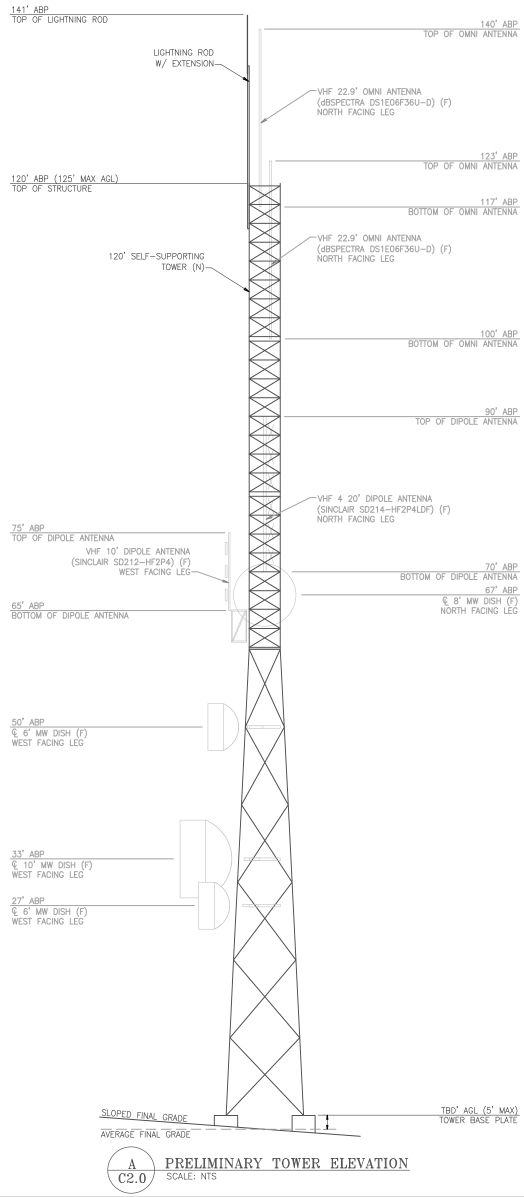
MAT-SU BOROUGH
EUREKA
TELECOM TOWER
IFP
ZONING DRAWINGS

REV	DESCRIPTION	DATE
A	ISSUE FOR PERMITTING	260507
B	UPDATED TOWER/FENCE LOCATION	260519

PRELIMINARY COMPOUND PLAN

C1.1

FILE: X:\26 JOBS\26-0045-10 MSB - DESIGN BUILD EUREKA TELECOMMUNICATIONS TOWER\05-ENGR\CAD\04 - ZONING DRAWINGS\C1.1 PRELIMINARY COMPOUND PLAN.DWG | PLOT DATE: 260518



A
C2.0
PRELIMINARY TOWER ELEVATION
SCALE: NTS

NOTES:

1. ABOVE BASE PLATE (ABP) ELEVATIONS ARE MEASURED FROM THE BASE PLATE AT THE BASE OF THE TOWER. THE ELEVATION OF THE TOWER BASE PLATE ABOVE GROUND LEVEL (AGL) IS PENDING TOWER FOUNDATION DESIGN AND SHALL BE NO MORE THAN 5 FEET AGL.
   1.1. AGL ELEVATION = ABP ELEVATION + TOWER BASE PLATE AGL ELEVATION
2. TOWER ANALYSIS CALCULATIONS BY VALMONT (JOB #: 669161), STAMPED 04/07/26. TOWER RATING IS 99.7%.
3. TOWER DESIGN DRAWINGS BY VALMONT (JOB #: 669161), STAMPED 04/16/26.
4. TOWER FOUNDATION DESIGN PENDING GEOTECHNICAL REPORT AND SITE SURVEY. FINAL FOUNDATION DESIGN WILL ENSURE THE TOWER BASE PLATE IS LESS THAN 5 FEET ABOVE FINISHED GRADE.
5. THIS TOWER HAS BEEN EVALUATED AND DESIGNED FOR FUTURE EQUIPMENT LOADING AS SPECIFIED BY THE MATANUSKA-SUSITNA BOROUGH (MSB). PRELIMINARY MOUNTS WERE SELECTED FOR THE TOWER STRUCTURAL ANALYSIS TO ENSURE TOWER CAPACITY FOR FUTURE SPECIFIED MOUNTS. EQUIPMENT MOUNTS ARE NOT SPECIFIED, EVALUATED NOR INSTALLED UNDER THE SCOPE OF THIS PROJECT.
   5.1. IN ACCORDANCE WITH THE TOWER DESIGN DRAWINGS; FUTURE ANTENNAS, MOUNTS, MOUNT ACCESSORIES, ETC. SHOULD NOT BE ATTACHED TO THE DIAGONALS OF THE TOWER.
6. TOWER LIGHTING REQUIREMENT PENDING FAA DETERMINATION.

FULL SCALE (22"x34")
HALF SCALE (11"x17")

NEW HORIZONS

NOT FOR CONSTRUCTION

DWN: JAA	DSN: JCM	APP: JCM
JOB #: 26-0045-10		DATE: 260507

MAT-SU BOROUGH
EUREKA
TELECOM TOWER
IFP
ZONING DRAWINGS

REV	DESCRIPTION	DATE
A	ISSUE FOR PERMITTING	260507
B	UPDATED TOWER/FENCE LOCATION	260519

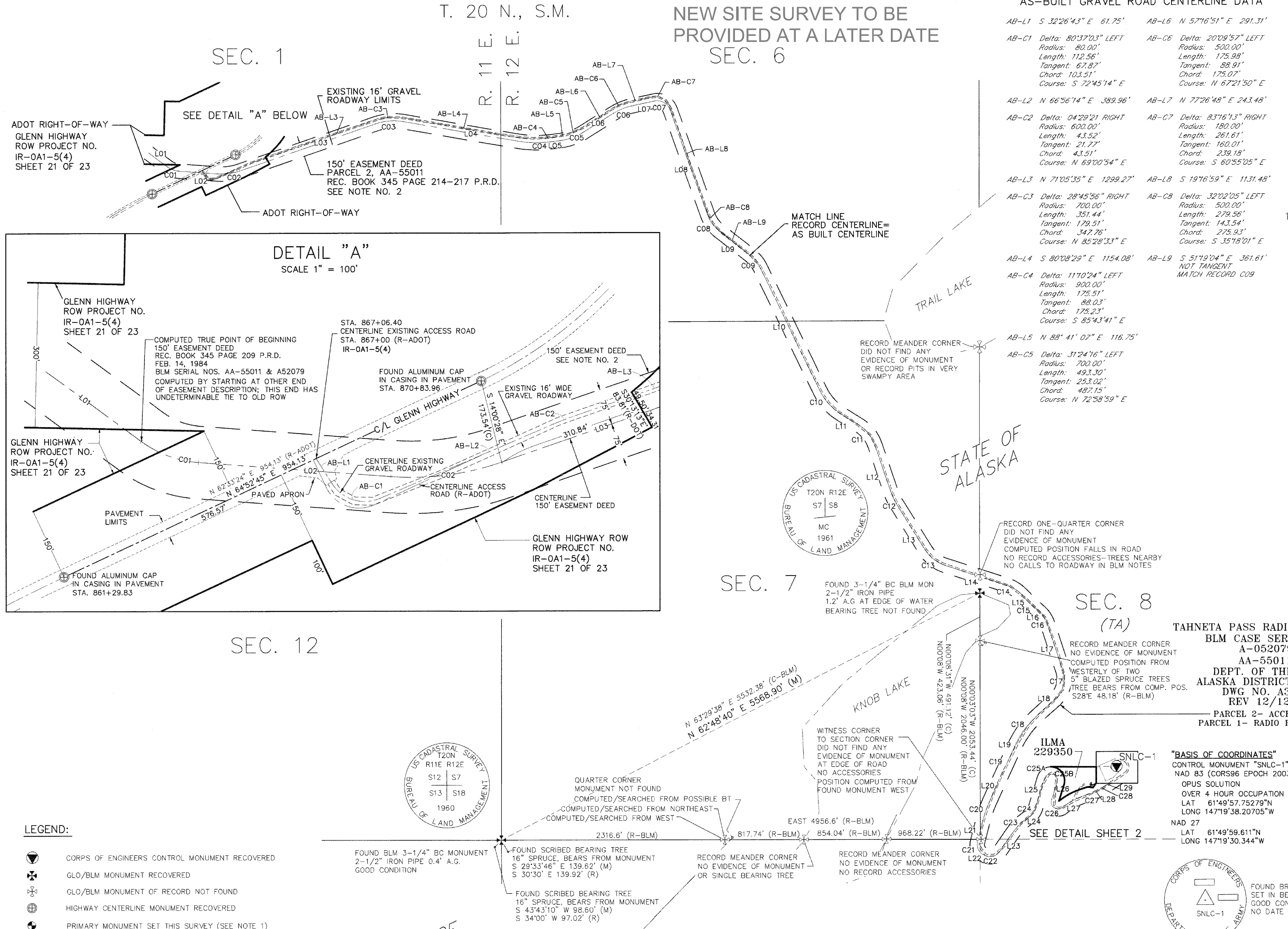
PRELIMINARY TOWER ELEVATION

C2.0

FILE: X:\26 JOBS\26-0045-10 MSB - DESIGN BUILD EUREKA TELECOMMUNICATIONS TOWER\05-ENG\CAD\04 - ZONING DRAWINGS\C2.0 PRELIMINARY TOWER ELEVATION.DWG PLOT DATE: 260518

ADDITIONAL NOTES ON SHEET 2

REFERENCE ONLY
NEW SITE SURVEY TO BE
PROVIDED AT A LATER DATE



AS-BUILT GRAVEL ROAD CENTERLINE DATA

AB-L1 S 32°26'43" E 61.75'

AB-C1 Delta: 80°37'03" LEFT
Radius: 80.00'
Length: 112.56'
Tangent: 67.87'
Chord: 103.51'
Course: S 72°45'14" E

AB-L2 N 66°56'14" E 389.96'

AB-C2 Delta: 04°29'21 RIGHT
Radius: 600.00'
Length: 43.52'
Tangent: 21.77'
Chord: 43.51'
Course: N 69°00'54" E

AB-L3 N 71°05'35" E 1299.27'

AB-C3 Delta: 28°45'56" RIGHT
Radius: 700.00'
Length: 351.44'
Tangent: 179.51'
Chord: 347.76'
Course: N 85°28'33" E

AB-L4 S 80°08'29" E 1154.08'

AB-C4 Delta: 11°10'24" LEFT
Radius: 900.00'
Length: 175.51'
Tangent: 88.03'
Chord: 175.23'
Course: S 85°43'41" E

AB-L5 N 88° 41' 07" E 116.75'

AB-C5 Delta: 31°24'16" LEFT
Radius: 700.00'
Length: 493.30'
Tangent: 253.02'
Chord: 487.15'
Course: N 72°58'59" E

AB-L6 N 57°16'51" E 291.31'

AB-C6 Delta: 20°09'57" LEFT
Radius: 500.00'
Length: 175.98'
Tangent: 88.91'
Chord: 175.07'
Course: N 67°21'50" E

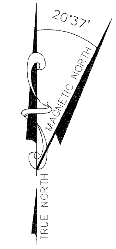
AB-L7 N 77°26'48" E 243.48'

AB-C7 Delta: 83°16'13" RIGHT
Radius: 180.00'
Length: 261.61'
Tangent: 160.01'
Chord: 239.18'
Course: S 60°55'05" E

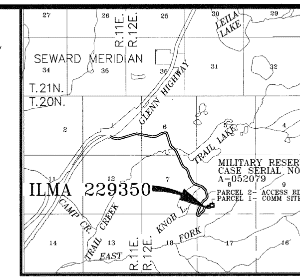
AB-L8 S 19°16'59" E 1131.48'

AB-C8 Delta: 32°02'05" LEFT
Radius: 500.00'
Length: 279.56'
Tangent: 143.54'
Chord: 275.93'
Course: S 35°18'01" E

AB-L9 S 51°19'04" E 361.61'
NOT TANGENT
MATCH RECORD C09



NGDC
10/30/2008



VICINITY MAP

SCALE 1"=1 MILE SOURCE MSB TAX MAP, 2006

CERTIFICATE OF OWNERSHIP

I, THE UNDERSIGNED, HEREBY CERTIFY THAT I AM THE DIRECTOR, DIVISION OF MINING, LAND AND WATER, AND THAT THE STATE OF ALASKA IS OWNER OF THE LANDS DEPICTED HEREON, I HEREBY APPROVE THIS SURVEY AND PLAT FOR THE STATE OF ALASKA.

July 16, 2010 — DATE

Gerald Jennings — for DIRECTOR, DIVISION OF MINING, LAND AND WATER

NOTARY'S ACKNOWLEDGEMENT

SUBSCRIBED AND SWORN TO BEFORE ME THIS 16th DAY OF July, 2010 FOR: Gerald Jennings

Ronda Wilson
NOTARY FOR THE STATE OF ALASKA
MY COMMISSION EXPIRES: with office

RONDA WILSON NOTARY PUBLIC STATE OF ALASKA

APPLICANT CERTIFICATE

I, THE UNDERSIGNED, HEREBY CERTIFY THAT I AM THE APPLICANT AS SHOWN HEREON. I APPROVE THIS SURVEY AND PLAT.

ADL NO. 229350

Dean L Strid — SIGNATURE
6-23-10 — DATE

DEAN L. STRID, COMMUNICATIONS ENGINEER II
STATE OF ALASKA
DEPARTMENT OF ADMINISTRATION
DIVISION OF ETS-INFORMATION TECHNOLOGY

NOTARY'S ACKNOWLEDGEMENT

SUBSCRIBED AND SWORN TO BEFORE ME THIS 23rd DAY OF June, 2010 FOR: Dean Strid

Novella H. Coleman
NOTARY FOR THE STATE OF ALASKA
MY COMMISSION EXPIRES: with office

NOVELLA H. COLEMAN NOTARY PUBLIC STATE OF ALASKA

THIS SURVEY DOES NOT CONSTITUTE A SUBDIVISION AS DEFINED BY AS 40.15.0900(5).

SCALE
1" = 500'

500' 1000' 1500' 2000' FT.
0 125 250 375 500 625 MTRS.
1 METER = 3.2808333 U.S. SURVEY FEET, 1 U.S. ACRE = 0.4047 HECTARE

"BASIS OF COORDINATES"
CONTROL MONUMENT "SNLC-1"
NAD 83 (CORS96 EPOCH 2003.0000)
OPUS SOLUTION
OVER 4 HOUR OCCUPATION
LAT 61°49'57.75279"N
LONG 147°19'38.20705"W
NAD 27
LAT 61°49'59.611"N
LONG 147°19'30.344"W

LEGEND:

- CORPS OF ENGINEERS CONTROL MONUMENT RECOVERED
- GLO/BLM MONUMENT RECOVERED
- GLO/BLM MONUMENT OF RECORD NOT FOUND
- HIGHWAY CENTERLINE MONUMENT RECOVERED
- PRIMARY MONUMENT SET THIS SURVEY (SEE NOTE 1)
- SECONDARY REFERENCE MONUMENT SET THIS SURVEY
- UNSURVEYED
- SURVEYED
- CENTERLINE 16' GRAVEL ACCESS ROAD
- COMPUTED DOT CENTERLINE

(C) (COMP) COMPUTED
(M) (MEAS) MEASURED
(REC-DOA) RECORD DEPARTMENT OF THE ARMY-SEE NOTE 2
(REC-BLM) RECORD BUREAU OF LAND MANAGEMENT- USRS PLAT APPROVED 8/19/1974
(REC-DOT) RECORD DEPARTMENT OF TRANSPORTATION PROJ. NO. IR-0A1-5(4)

SURVEYOR'S CERTIFICATE

I HEREBY CERTIFY THAT I AM PROPERLY REGISTERED AND LICENSED TO PRACTICE LAND SURVEYING IN THE STATE OF ALASKA, THAT THIS PLAT REPRESENTS A SURVEY MADE BY ME OR UNDER MY DIRECT SUPERVISION, THAT THE MONUMENTS SHOWN HEREON ACTUALLY EXIST AS DESCRIBED, AND THAT ALL DIMENSIONS AND OTHER DETAILS ARE CORRECT.

STATE OF ALASKA 49th STEPHEN STOLL No. 6726-S 6/23/2010 REGISTERED PROFESSIONAL LAND SURVEYOR

DATE 6/23/2010 REGISTRATION NO. 6726-S

STEPHEN STOLL
REGISTERED LAND SURVEYOR

Palmer 2010-55

DATE OF SURVEY: BEGINNING: 06/28/2008 ENDING: 06/18/2010	NAME OF SURVEYOR: McCLINTOCK LAND ASSOCIATES, Inc. 16942 N. Eagle River Loop Road Eagle River, AK, 99577

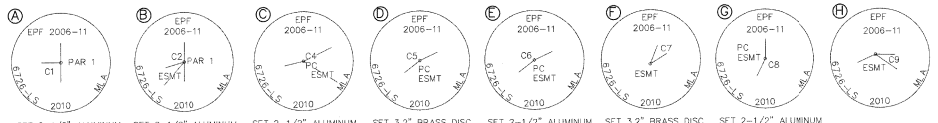
STATE OF ALASKA
DEPARTMENT OF NATURAL RESOURCES
DIVISION OF MINING, LAND & WATER
ANCHORAGE, ALASKA

RECORD OF SURVEY
OF ILMA NO. 229350

DEPARTMENT OF ADMINISTRATION COMMUNICATIONS SITE
AND THE EASEMENT DEED
RECORDED FEB. 14, 1985 IN BOOK 345 AT PAGE 205
PALMER RECORDING DISTRICT

LOCATED WITHIN UNSURVEYED SECTION 8, TRACT A
T.20 N., R.12 E., SEWARD MERIDIAN, AK.
PALMER RECORDING DISTRICT
CONTAINING 1.99 ACRES

DRAWN BY: SS DATE 6/2010	APPROVAL RECOMMENDED William S. Brown for — STATEWIDE PLATTING SUPERVISOR	7-15-10 DATE
CHECKED BY: SS,mm	SCALE: 1"=500'	FILE NO. EPF 20060011
SHEET 1 OF 2		



MILITARY RESERVE
BLM CASE SERIAL NO.
A-052079
PARCEL 2- ACCESS RD.
PARCEL 1- RADIO RELAY SITE
RECORDED FEB 14, 1984
BOOK 345 PAGE 205 P.R.D.

MONUMENTS SET THIS SURVEY

MONUMENT ACCESSORIES

K	ESMT C3 ESMT	7" SPRUCE BLD COR ANT SUP	S 42°30' W N 40°58' W N 16°25' W	37.4' 37.2' 31.8'

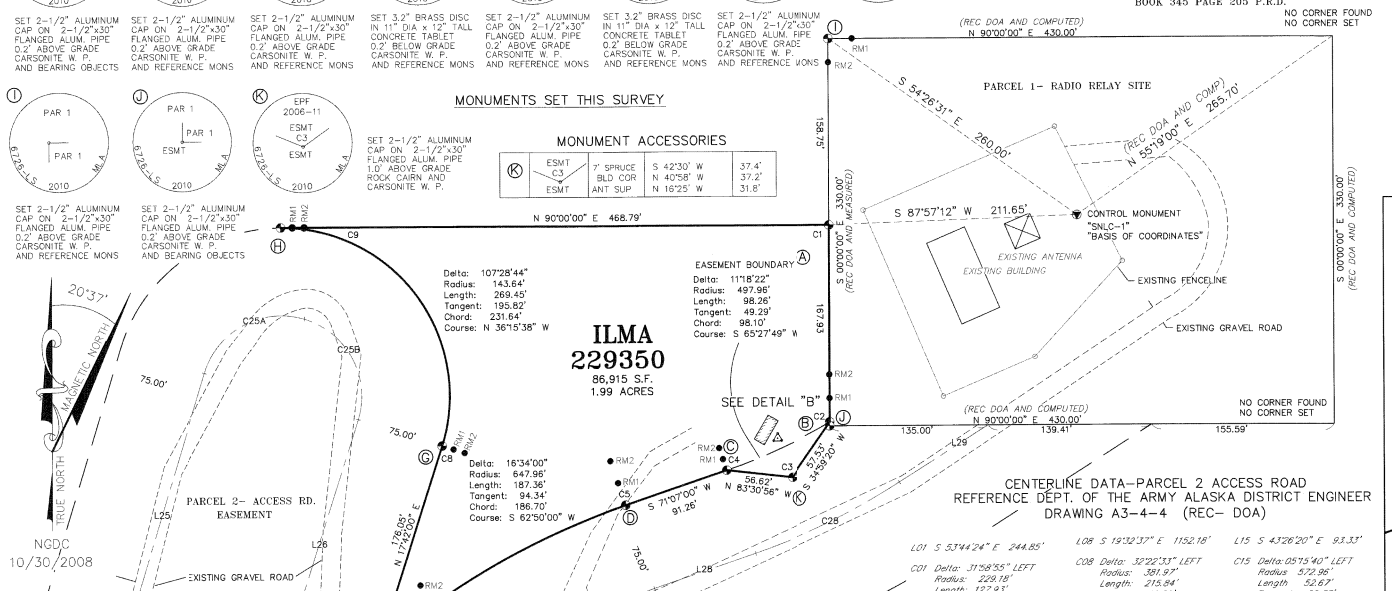
MONUMENT ACCESSORIES

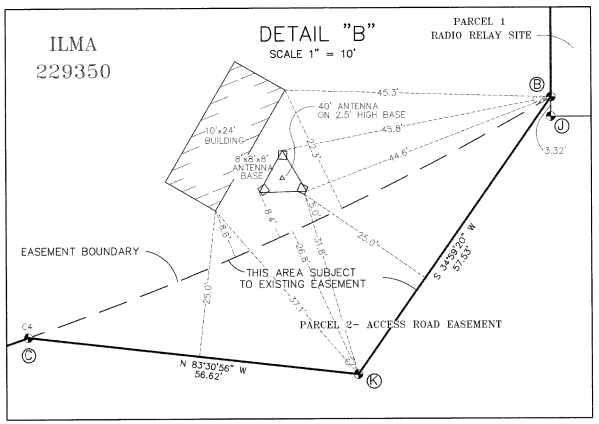
CODE	DESC.	OBJECT	BEARING	DIST.
A	C1 PAR 1	FENCEPOST 3" P 7" S	N 67°28' E S 26°57' W S 76°34' E	31.7' 60.8' 67.8'
B	C2 ESMT PAR 1	RM1 RM2	N 00°00'00" E N 00°00'00" E	20.00' 40.00'
C	C4 PC ESMT	RM1 RM2	N 18°53'00" W N 18°53'00" W	10.00' 20.00'
D	C5 PC ESMT	RM1 RM2	N 18°53'00" W N 18°53'00" W	20.00' 40.00'
E	C6 PC ESMT	RM1 RM2	N 35°27'00" W N 35°27'00" W	10.00' 20.00'

MONUMENT ACCESSORIES

CODE	DESC.	OBJECT	BEARING	DIST.
F	C7 ESMT	RM1 RM2	N 54°33'00" E N 17°42'00" E	20.00' 20.00'
G	PC ESMT C8	RM1 RM2	S 72°18'00" E S 72°18'00" E	10.00' 20.00'
H	C9 ESMT	RM1 RM2	S 90°00'00" E S 90°00'00" E	20.00' 40.00'
I	PAR 1	RM1 RM2	S 90°00'00" E S 00°00'00" E	20.27' 20.19'
J	PAR 1 ESMT	FENCEPOST 7" S ANT SUP	N 75°40' E S 39°01' W S 72°25' W	100.00' 89.5' 41.5'

FENCEPOST= 3" DIA FENCE CORNER POST
3" P = 3" DIA. POPLAR TREE
7" S= 7" DIA. SPRUCE TREE
RM= REFERENCE MONUMENT
2" ALCAP ON 5/8"x36" REBAR
ANT SUP= CLOSEST CORNER OF CLOSEST ANTENNA SUPPORT WITH CHISEL MARK





CENTERLINE DATA-PARCEL 2 ACCESS ROAD
REFERENCE DEPT. OF THE ARMY ALASKA DISTRICT ENGINEER
DRAWING A3-4-4 (REC- DOA)

L01 S 53°44'24" E 244.85'

C01 Delta: 31°58'55" LEFT
Radius: 229.18'
Length: 127.93'
Tangent: 65.68'
Chord: 126.28'
Course: S 69°43'53" E

L02 S 85°43'19" E 398.09'

C02 Delta: 23°15'54" LEFT
Radius: 572.96'
Length: 232.65'
Tangent: 117.95'
Chord: 231.06'
Course: N 82°39'41" E

L03 N 71°00'47" E 1491.19'

C03 Delta: 28°47'19" RIGHT
Radius: 572.96'
Length: 287.89'
Tangent: 147.05'
Chord: 284.87'
Course: N 85°24'27" E

L04 S 80°11'54" E 1205.52'

C04 Delta: 16°34'20" LEFT
Radius: 1145.92'
Length: 331.44'
Tangent: 166.89'
Chord: 330.29'
Course: S 88°29'03" E

L05 N 83° 13' 46" E 107.43'

C05 Delta: 25°19'51" LEFT
Radius: 572.96'
Length: 253.31'
Tangent: 128.76'
Chord: 251.25'
Course: N 70°33'50" E

L06 N 57°53'55" E 373.57'

C06 Delta: 20°07'37" RIGHT
Radius: 572.96'
Length: 201.27'
Tangent: 101.68'
Chord: 200.24'
Course: N 67°57'43" E

L07 N 78°01'33" E 245.31'

C07 Delta: 82°25'50" RIGHT
Radius: 143.24'
Length: 206.08'
Tangent: 125.47'
Chord: 188.76'
Course: S 60°45' 30" E

L08 S 19°32'37" E 1152.18'

C08 Delta: 32°22'33" LEFT
Radius: 381.97'
Length: 215.84'
Tangent: 110.89'
Chord: 212.98'
Course: S 35°43'54" E

L09 S 51° 55' 10" E 398.05'

C09 Delta: 26°08'35" RIGHT
Radius: 381.97'
Length: 174.29'
Tangent: 88.69'
Chord: 172.79'
Course: S 38°50'51" E

L10 S 25°46'34" E 1413.34'

C10 Delta: 31°56'06" LEFT
Radius: 572.96'
Length: 319.35'
Tangent: 163.54'
Chord: 315.23'
Course: S 41°44'37" E

L11 S 57°42'40" E 234.64'

C11 Delta: 39°03'29" RIGHT
Radius: 381.97'
Length: 260.39'
Tangent: 135.48'
Chord: 255.38'
Course: S 38°10'54" E

L12 S 18°39'12" E 512.53'

C12 Delta: 131°31'47" LEFT
Radius: 572.96'
Length: 1.32.30'
Tangent: 66.45'
Chord: 132.01'
Course: S 25°16'06" E

L13 S 31°52'59" E 564.71'

C13 Delta: 40°13'50" LEFT
Radius: 381.97'
Length: 268.60'
Tangent: 140.12'
Chord: 263.10'
Course: S 52°01'41" E

L14 S 72°06'49" E 660.66'

C14 Delta: 28°40'30" RIGHT
Radius: 391.97'
Length: 191.17'
Tangent: 97.63'
Chord: 189.18'
Course: S 57°46'33" E

L15 S 43°26'20" E 9.3.33'

C15 Delta: 05°15'40" LEFT
Radius 572.96'
Length 52.67'
Tangent: 26.35'
Chord: 52.67'
Course: S 46° 04' 21" E

L16 S 48°42'00" E 107.56'

C16 Delta: 30°34'00" RIGHT
Radius: 286.48'
Length: 152.83'
Tangent: 78.28'
Chord: 151.02'
Course: S 33°25'01" E

L17 S 18 08'00" E 505.95'

C17 Delta: 66°17'00" RIGHT
Radius: 286.48'
Length: 331.42'
Tangent: 187.05'
Chord: 313.25'
Course: S 15° 00' 31" W

L18 S 48° 09' 00" W 223.76'

C18 Delta: 0.3'28 00" LEFT
Radius: 1145.92'
Length: 68.13'
Tangent: 34.68'
Chord: 69.32'
Course: S 46°25'00" W

L19 S 44°41'00" W 16.40'

C19 Delta: 20°17'00" LEFT
Radius: 954.93'
Length: 338.06'
Tangent: 170.82'
Chord: 336.30'
Course: S 34°32'30" W

L20 S 24° 24' 00" W 627.30'

C20 Delta: 10°13'20" LEFT
Radius: 1145.92'
Length: 204.00'
Tangent: 102.27'
Chord: 203.73'
Course: S 19°18'00" W

L21 S 14°12'00" W 225.18'

C21 Delta: 80°16'00" LEFT
Radius: 113.37'
Length: 167.72'
Tangent: 101.06'
Chord: 154.26'
Course: S 28°03'05" E

L22 S 66°04'00" E 14.90

C22 Delta: 79°16'00" LEFT
Radius: 119.37'
Length: 165.14'
Tangent: 98.87'
Chord: 152.262'
Course: N 74°18'04" E

L23 N 34°40' 00" E 237.30'

C23 Delta: 20°06' 00" RIGHT
Radius: 572.96'
Length: 201.00'
Tangent: 101.54'
Chord: 199.97'
Course: N 44°43'00" E

L24 N 54°46'00" E 28.85'

C24 Delta: 37°52'00" LEFT
Radius: 190.98'
Length: 126.22'
Tangent: 65.51'
Chord: 123.94'
Course: N 35°49'59" E

L25 N 16° 54' 00" E 312.67'

C25A Delta: 90°24'001" RIGHT
Radius: 68.64'
Length: 108.17'
Tangent: 68.99'
Chord: 97.31'
Course: N 62° 02' 41 E

C25B Delta: 90°24'00" RIGHT
Radius: 68.64'
Length: 108.17'
Tangent: 68.99'
Chord: 97.31'
Course: S 27°39'57" E

L26 S 17° 42' 00" 188.67'

C26 Delta: 143°09'00" LEFT
Radius: 70.74'
Length: 176.73'
Tangent: 212.10'
Chord: 134.22'
Course: S 53°52'16" E

L27 N 54°33'00" E 66.33'

C27 Delta: 16 34 00" RIGHT
Radius: 572.96'
Length: 165.67'
Tangent: 83.42'
Chord: 165.09'
Course: N 62°50'00" E

L28 N 71°07'00" E 91.26'

C28 Delta: 13°49'00" LEFT
Radius: 572.96'
Length: 138.17'
Tangent: 69.42'
Chord: 137.84'
Course: N 64°12'29" E

L29 N 57°27'17" E 90.00'
NOT TANGENT

SCALE
1" = 50'
50' 100' 150' 200' FT.
0 25 50 MTRS.

1 METER = 3.2808333 U.S. SURVEY FEET, 1 U.S. ACRE = 0.4047 HECTARE

2010-55
Plat # Palmer
Rec Dist 8-2
Date 2010
Time 2:11 PM

NOTES:

1. UNLESS NOTED OTHERWISE, ALL EXTERIOR CORNERS OF THIS SURVEY WERE MONUMENTED WITH FLANGED, MAGNETIZED ALUMINUM MONUMENTS WITH 2-1/2" CAPS ON 2-1/2" O. D. PIPES, 30" LONG, BURIED 26" DEEP. IN LOCATIONS WITH SHALLOW BEDROCK, 11" DIAMETER x 12" TALL CONCRETE TABLETS WITH A 3" BRASS CAP AND REBAR FOR MAGNETIC LOCATION WERE SET. WHERE NO BEARING OBJECTS WERE AVAILABLE, REFERENCE MONUMENTS CONSISTING OF 2" ALCAPS ON 5/8"x36" POINTED REBAR WERE SET.
2. THE LOCATION OF THE TRACT BOUNDARIES OF ILMA 229350 WAS CONTROLLED BY LOCATION OF THE BOUNDARIES OF PARCELS 1 AND 2 OF THE TAHNETA PASS RADIO RELAY STATION AS DEFINED BY FEDERAL PERMIT A-052079 AND DEPARTMENT OF THE ARMY, ALASKA DISTRICT ENGINEER DRAWING NO. A3-4-4 REVISED 12/12/1972. THE DRAWING DATA WAS TRANSCRIBED IN THE EASEMENT DEED RECORDED IN BOOK 345 AT PAGES 209-217, PALMER RECORDING DISTRICT.
3. THIS SURVEY WAS ACCOMPLISHED IN ACCORDANCE WITH GSI 2006-11 AND AS 34.65.030.
4. THE ERROR OF CLOSURE OF THIS SURVEY DOES NOT EXCEED 1:5000.
5. ALL BEARINGS SHOWN ARE TRUE BEARINGS AS ORIENTED TO THE BASIS OF BEARING, AND DISTANCES SHOWN ARE REDUCED TO HORIZONTAL FIELD DISTANCES.
6. ALL PARCELS OF LAND OWNED BY THE STATE OF ALASKA, LOCATED WITHIN FIFTY (50.00) FEET OF, OR BISECTED BY A SURVEYED OR PROTRACTED SECTION LINE, ARE SUBJECT TO A FIFTY (50.00) FOOT EASEMENT, EACH SIDE OF THE SECTION LINE, WHICH IS RESERVED TO THE STATE OF ALASKA FOR PUBLIC HIGHWAYS UNDER A.S. 19.10.010.
7. THIS SURVEY WAS CONDUCTED IN JUNE THROUGH AUGUST, AND MONUMENTATION WAS COMPLETED IN APRIL, 2010, USING TOPCON DUAL FREQUENCY, GLONASS ENABLED HIPER PLUS AND Go SERIES RECEIVERS. ALL PROPERTY CORNERS FOUND AND SET HAVE BOTH RTK AND STATIC OBSERVATIONS TO CONFIRM THE ACCURACY OF THE REPORTED LOCATIONS. RTK POSITIONS WERE PROCESSED USING TOPSURV v.7.1 AND THE STATIC NETWORK WAS PROCESSED USING TOPCON TOOLS v.7. GPS METHODOLOGY AND ACCURACY CONFORM TO THE "GEOMETRIC ACCURACY STANDARDS AND SPECIFICATIONS FOR USING RELATIVE POSITIONING TECHNIQUES," v.5.0, REPRINT AUGUST 1989.
8. THE BASIS OF GEODETIC COORDINATES IS AN OPUS SOLUTION OF A FOUR HOUR GPS OCCUPATION OF THE CORPS OF ENGINEERS CONTROL POINT "SNLC-1." THE NAD 83 COORDINATES SHOWN ARE MORE PROPERLY DEFINED AS HAVING A REFERENCE FRAME OF "NAD 83 (CORS96) (EPOCH:2003.0000)." THE NAD 27 COORDINATES WERE CONVERTED USING THE NADCON CONVERSION IN TOPCON TOOLS v7.1.
9. THE BASIS OF BEARING ON THIS PLAT WAS DETERMINED BY A HIGH-PRECISION GPS SURVEY USING TOPCON HIPER PLUS AND Go RECEIVERS DIFFERENTIALLY CORRECTED AND PROCESSED USING TOPCON TOOLS V.7.1 SOFTWARE.

LEGEND:

- CORPS OF ENGINEERS CONTROL MONUMENT RECOVERED
- GLO/BLM MONUMENT" RECOVERED
- GLO/BLM MONUMENT" OF RECORD NOT FOUND
- PRIMARY MONUMENT SET THIS SURVEY (SEE NOTE 1)
- HIGHWAY CENTERLINE MONUMENT RECOVERED
- SECONDARY REFERENCE MONUMENT SET THIS SURVEY SEE NOTE 1
- UNSURVEYED
- SURVEYED
- L01 C01 - CENTERLINE PARCEL 2, (REC-DOA)
- BOUNDARY PARCEL 2, (REC-DOA)

(C) (COMP) COMPUTED
(M) (MEAS) MEASURED
(REC-DOA) RECORD DEPARTMENT OF THE ARMY-SEE NOTE NO. 2
(REC-BLM) RECORD BUREAU OF LAND MANAGEMENT USRS APPROVED AUGUST 19, 1974
(REC-DOT) RECORD DEPARTMENT OF TRANSPORTATION PROJECT NO. IR-0A1-5(4)

Palmer 2010-55

DATE OF SURVEY:
BEGINNING: 06/28/2008
ENDING: 06/18/2010

NAME OF SURVEYOR:
McCLINTOCK LAND ASSOCIATES, Inc.
16942 N. Eagle River Loop Road
Eagle River, AK, 99577

STATE OF ALASKA
DEPARTMENT OF NATURAL RESOURCES
DIVISION OF MINING, LAND & WATER
ANCHORAGE, ALASKA

RECORD OF SURVEY

OF ILMA NO. 229350
DEPARTMENT OF ADMINISTRATION COMMUNICATIONS SITE AND THE EASEMENT DEED
RECORDED FEB. 14, 1985 IN BOOK 345 AT PAGE 205
PALMER RECORDING DISTRICT

LOCATED WITHIN UNSURVEYED SECTION 8, TRACT A
T.20 N., R.12 E., SEWARD MERIDIAN, AK.
PALMER RECORDING DISTRICT
CONTAINING 1.99 ACRES

DRAWN BY: SS	APPROVAL RECOMMENDED: William S. Brown for	2-15-10
DATE 6/2010	STATEWIDE PLATTING SUPERVISOR	DATE
CHECKED BY: SS,mm	SCALE: 1"=50'	FILE NO. EPF 20060011
SHEET 2 OF 2		

Application

Attachment A:
Matanuska-Susitna Borough
Application for Tall Structures
and Zoning Maps

MATANUSKA-SUSITNA BOROUGH
Planning and Land Use Department
Development Services Division
350 East Dahlia Avenue • Palmer, AK 99645
Phone (907) 861-7822 • Fax (907) 861-8158
Email: permitcenter@matsugov.us

APPLICATION FOR A TALL STRUCTURE – MSB 17.67

Carefully read instructions and applicable borough code. Fill out forms completely. Attach information as needed. Incomplete applications will not be processed.

Application fee must be attached:
_____ **$1,500** for **Conditional Use Permit** - > 125 feet in height
__✓__ **$ 500** for **Administrative Permit** – 85' to 125' in height
_____ **$ 100** for **Network Improvement Permit** – In accordance with MSB 17.67.110.

*Prior to the public hearing, the applicant must also pay the mailing and advertising fees associated with the application. Applicants will be provided with a statement of advertising and mailing charges. Payment must be made **prior** to the application presentation before the Borough Planning Commission or Planning Director decision.*

Subject Property Township: 20N, Range: 12E, Section: 8, Meridian Seward
MSB Tax Account # N/A
SUBDIVISION: _____ BLOCK(S): _____, LOT(S): C1
STREET ADDRESS: closest street address: 7880 W Alascom Road (AT&T Tower)
(US Survey, Aliquot Part, Lat. /Long. etc) 61°49'56.7"N, 147°19'43.1"W

Ownership A *written authorization by the owner must be attached for an agent or contact person, if the owner is using one for the application.* Is authorization attached? o **Yes** o **No** o **N/A**

Name of Property Owner
State of Alaska (DNR, DMWL & Dept. of Administration)
Address: _____
_____
Phne: Hm _____ Fax _____
Wk _____ Cell _____
E-mail _____

Name of Agent/ Contact for application
Sierra Larson, New Horizons Telecom (agent for MSB)
Address: 901 Cope Industrial Way
Palmer, Alaska 99645
Phne: Hm _____ Fax _____
Wk 907-761-6054 Cell _____
E-mail slarson@newhorizons.io

Special Land Use District *(if applicable)*: Glacier View Special Land Use Distruct

Pre-Application Requirements for New Tall Structures that Require a Conditional Use Permit	
Prior to applying for a conditional use permit for a new tall structure, the applicant shall hold at least one community meeting.	
1. The meeting shall be held at the nearest facility where community council meetings are regularly scheduled. If the facility is not available, the nearest available public facility that is capable of seating a minimum of 20 people shall be utilized.	
2. The meeting shall be held at least 15 calendar days after mailing of the notification.	
3. The meeting shall not start prior to 5:00 p.m. and no later than 7:00 p.m.	
4. Notification of the meeting shall, at a minimum, include the following: • Legal description and map of the general parcel, or parcels, within the coverage area under consideration for the telecommunication facility. • Description of the proposed development including height, design, lighting, potential access to the site and proposed service. • Date, time, and location of the informational meeting. • Contact name, telephone number, and address of applicant. • Comment form created by the borough that has a comment submittal deadline and provides options for submitting comments.	
5. At a minimum, the notification area for the meeting shall include the following: • Property owners within one-half mile of the parcels under consideration for the proposed tall structure. • The nearest community council and any community council whose boundary is within 1200 feet of the parcels under consideration for the tall structure.	
A written report summarizing the results of the community meeting shall be prepared that includes the following information:	**Attached**
1. Dates and locations of all meetings where citizens were invited to discuss the potential applicant's proposal.	
2. Content, dates mailed, and numbers of mailings, including letters, meeting notices, newsletters and other publications.	
3. Sign-in sheet(s) used at the meeting, that includes places for names, address, phone numbers and other contact information such as e-mail addresses.	
4. A list of residents, property owners, and interested parties who have requested in writing that they keep informed of the proposed development through notices, newsletters, or other written materials.	
5. The number of people who attended meetings.	
6. Copies of written comments received at the meeting.	
7. A certificate of mailing identifying all who were notified of the meeting.	
8. A written summary that addresses the following: • The substance of the public's written concerns, issues, and problems. • How the applicant has addressed, or intends to address, concerns, issues and problems expressed during the process. • Concerns issues, and problems the applicant has not addressed or does not intend to address and why.	

General application requirements for <u>Administrative</u> and <u>Conditional Use Permits</u>	**Attached**
1. Design drawings for the proposed tall structure, drawn to scale, and certified by a registered engineer or architect.	✓
2. Citizen participation report *(if applying for a Conditional Use Permit)*	N/A
3. Certified site plan *(As defined in MSB 17.125.010)*	✓
4. Copy of a determination of no hazard to air navigation from the Federal Aviation Administration.	N/A
5. If breakpoint technology is intended to be utilized, a written statement specifying the height at which the engineered structural weakness will be located.	N/A

In order to grant a <u>Conditional Use Permit</u> or <u>Administrative Permit</u> the Planning Commission or Planning Director must find that each of the following criteria has been met. Explain the following in detail:	**Attached**
1. To the extent that is technically feasible and potentially available, the location of the tall structure is such that its negative effects on the visual and scenic resources of all surrounding properties have been minimized.	✓
2. Visibility of the tall structure from public parks, trails recognized within adopted MSB plans, and waterbodies has been minimized to the extent that is technically feasible and potentially available.	✓
3. The tall structure will not interfere with the approaches to any existing airport or airfield that are identified in the MSB Regional Aviation System Plan or by the Alaska State Aviation System Plan.	✓
4. That granting the permit will not be harmful to the public health, safety, convenience, and welfare.	✓

Application requirements for a <u>Network Improvement Permit</u>	**Attached**
1. A description of the proposed modifications to the telecommunication tower, including a description of the height, type, and lighting of the new or modified structure and the existing structure.	✓
2. A certified site *(as defined in MSB 17.125.010)* for purposes of setback verification.	✓
3. Design drawings for the proposed modified or new structure, drawn to scale, and certified by a registered engineer or architect.	✓

In order to grant a <u>Network Improvement Permit</u> the Planning Director must find that each of the following criteria has been met. Explain the following in detail.	**Attached**
1. The proposed development conforms to setback requirements of MSB 17.55.	
2. The telecommunication tower being extended was lawfully constructed at the time of application for a Network Improvement Permit.	
3. The proposed modification does not violate permit conditions of any valid permits that have been issued to the existing facility, provided that the condition being violated does not limit height of the structure.	

Operation Standards for New Tall Structures – Conditional Use Permit, Administrative Permit, and Network Improvement Permit	**Attached**
1. The equipment compound shall meet minimum setback distances from all property lines in accordance with MSB 17.55	✓
2. Setbacks shall be determined from the dimensions of the entire lot, even though the tower may be located on lease areas within the lot.	✓
3. Adequate vehicle parking shall be provided on the subject property, outside of public use easements and rights-of-way to enable emergency vehicle access. No more than two spaces per provider shall be required.	✓
4. Information signs for the purpose of identifying the tower such as the antenna structure registration number required by the Federal Communications Commission, as well as the party responsible for the operation and maintenance of the facility shall be visibly posted at the equipment compound.	✓
5. If more than 220 volts are necessary for the operation of the facility, warning signs shall be located at the base of the facility and shall display in large, bold, high contrast letters the following: "HIGH VOLTAGE – DANGER".	N/A
6. A 24-hour emergency contact number shall be visibly posted at the equipment compound.	✓
7. A fence or wall not less than six (6) feet in height with a secured gate shall be maintained around the base of the tower.	✓

Additional Standards for <u>Wind Energy Conversion Systems</u> (WECS) – In addition to the operations standards for new tall structures, the following standards shall apply to WECS	**Attached**
1. WECS shall be equipped with an automatic overspeed control device designed to protect the system form sustaining structural failure such as splintered or thrown blades and the overturning or breaking of towers due to an uncontrolled condition brought on by high winds.	
2. WECS shall have a manually operable method that assures the WECS can be brought to a safe condition in high winds. Acceptable methods include mechanical or hydraulic brakes or tailvane deflection systems which turn the rotor out of the wind.	

OWNER'S STATEMENT: I am owner of the following property:

MSB Tax parcel ID #(s) _____ and,
I hereby apply for approval conditional use permit on that property as described in this application.

I understand all activity must be conducted in compliance with all applicable standards of MSB 17.67 and with all other applicable borough, state or federal laws.

I understand that other rules such as local, state and federal regulations, covenants, plat notes, and deed restrictions may be applicable and other permits or authorization may be required. I understand that the borough may also impose conditions and safeguards designed to protect the public's health, safety and welfare and ensure the compatibility of the use with other adjacent uses.

I understand that it is my responsibility to identify and comply with all applicable rules and conditions, covenants, plat notes, and deed restrictions, including changes that may occur in such requirements.

I understand that this permit and zoning status may transfer to subsequent owners of this land and that it is my responsibility to disclose the requirements of this status to the buyer when I sell the land.

I understand that changes from the approved conditional use permit may require further authorization by the Borough Planning Commission. I understand that failure to provide applicable documentation of compliance with approved requirements, or violation of such requirements will nullify legal status, and may result in penalties.

I grant permission for borough staff members to enter onto the property as needed to process this application and monitor compliance. Such access will at a minimum, be allowed when the activity is occurring and, with prior notice, at other times necessary to monitor compliance.

The information submitted in this application is accurate and complete to the best of my knowledge.

Signature: Property Owner	Printed Name	Date
	Sierra Larson	5/19/2026
Signature: Agent	Printed Name	Date

MSB USE ONLY

Date application submitted:

Date application determined complete: _____

NEW HORIZONS
Building Tomorrow's Infrastructure Today

EUREKA TELECOMMUNICATION TOWER ADMINISTRATIVE PERMIT APPLICATION v.1

May 19th, 2026

Prepared For
Matanuska-Susitna Borough

Structure Owner
Matanuska-Susitna Borough

Authorized Agent
New Horizons Telecom, Inc.

Project Narrative

This application seeks an Administrative Permit in accordance with Matanuska-Susitna Borough (MSB) 17.67 Tall Structures. The proposed project involves construction of a communications tower intended to support State of Alaska Department of Public Safety (DPS) and Matanuska-Susitna Borough public safety communications systems serving the surrounding area. The primary purpose of the facility is to improve the reliability, resiliency, and geographic coverage of public safety communications infrastructure used for emergency response, law enforcement, fire protection, emergency management, and related governmental communications. The proposed 120' self-support communications tower and associated antennas will assist in addressing existing coverage limitations in this remote area and enhance communications capabilities for both routine and emergency incidents affecting residents, travelers, recreation users, and public safety personnel.

Site Selection:
The project site is located at 61°49'56.7"N, 147°19'43.1"W near 7880 W Alascom Road and was selected to support expansion of existing public safety communications infrastructure already established at the site under a lease with the Department of Natural Resources (DNR) (ILMA 229350). The area currently contains an existing tower and associated communications shelter facilities; however, the existing tower has reached its structural loading capacity and cannot support additional equipment or future system growth. The proposed Matanuska-Susitna Borough (MSB) tower will be constructed adjacent to the existing communications shelter in order to utilize existing infrastructure, site access, and utilities while minimizing additional land disturbance. The surrounding area is already developed for communications use and includes a nearby AT&T communications compound and tower facility on an adjacent lease area.

Zoning Compliance:
The development of this tower falls within an Administrative Permit because the proposed tower height is within the MSB defined threshold of 125 feet. The site is located within the Glacier View Special Use District (SpUD) and outside of the Sheep Mountain Subdistrict. The tower location within this SpUD does not affect the tall structure development standards as outlined in Title 17. The proposed tower aligns with the community's goals, particularly in addressing the crucial need for improved emergency service communications in the area, which will enhance public safety and support the safe enjoyment of recreational activities. The selected location of the tower site on the parcel and preliminary desktop review indicate that it will meet setbacks required in the MSB code, such as equipment compound distance from property lines (17.55) and minimum setback distance equal to the height of the tower (17.67.090.A.2), but will be confirmed via the land survey. Section 17.67.060.A.3 indicates that *"Setbacks shall be determined from the dimensions of the entire lot, even though the tower may be located on lease areas within the lot."* The site is located within an Interagency Land Management Assignment (ILMA) No. 229350 and is owned by the State of Alaska. The agreement also authorizes the site to be used for MSB public safety equipment.

Height and Design:
The tower's height of 120 feet is required to meet service objectives. The structure color will be natural grey/steel color, and the non-reflective/matte finish will avoid unnecessary attention and will blend in with the area's natural surroundings. In addition, the open lattice structure of the tower allows the tower to visually "disappear" against the backdrop of trees, mountains or open sky. The open structure reduces the perception of bulk and mass, in an attempt to make it less visually obtrusive.

The location has been chosen to minimize its prominence in the landscape, situated away from major view corridors (i.e., Glenn Highway) as reinforced by the presence of the nearby AT&T communications compound and tower. The area surrounding the tower site compound will keep as much of the natural vegetation as possible, consistent with the surrounding area.

The site, consisting of a tower within a secure fenced compound as well as ice-bridge to existing SOA shelter, will be offset from the drivable road surface to visually screen the site from the public as much as possible. The leased area will include a 4-space parking and turnaround area in accordance with parking requirements noted in MSB 17.67.0900(B)(1). This can be seen on the Zoning Drawings included as Attachment B.

A sign/placard will be placed on the outside of the fence to address MSB 17.67.090(C)(a)(b)(c) signage requirements. The placard will include owner/operator contact information as well as the FCC Tower ID if applicable. There is no requirement for a high-voltage sign/warning associated with this tower.

Included with this application as Attachment C are the current PE stamped Tower and Foundation Design Drawings providing certification of the structural integrity of the tower structure and its foundation. The tower base plate will be elevated no more than 5' above grade level.

Regarding the decision to not utilize breakpoint technology in the tower's design at this site, breakpoint technology is typically incorporated in tower designs to limit structural failure to a predetermined point which minimizes the risk of potential harm to the public or surrounding properties. However, for this specific site:

- The road and compound area is specifically for telecom use
- No residential or protected structures are in the vicinity of the proposed tower
- Minimal public traffic
- Tower appears to be within acceptable range of required setbacks

Environmental Impact:
The tower is expected to have little to no effects on the local environment. Vegetation clearing will be minimized to the extent possible and will stay within the leased area and access driveway. New Horizons conducted a high-level viewshed analysis using desktop tools to determine potential view impacts from popular recreational areas. The locations of trails and recreational areas identified is based on those included Matanuska-Susitna Borough's Recreational Trails Plan (August 2016 version). The viewshed analysis focused on locations within a 3-mile radius from the site because generally towers become less noticeable beyond 2-3 miles in flatter terrain. However, visibility may be amplified due to the higher elevation of the site compared to surrounding areas. Visual Analysis is included as Attachment E.

Public Benefit:
The proposed communications tower will significantly benefit the public by improving the reliability of public safety communications systems utilized by the State of Alaska DPS and MSB emergency services. Improved communications infrastructure will support more efficient emergency response, coordination, and communications capabilities while enhancing public safety, well-being, and connectivity for residents and visitors throughout the area.

Technical Specifications:

The proposed tower is intended to primarily support Borough and State public safety communications infrastructure and therefore has not been designed to accommodate significant commercial co-location capacity.

The tower is designed to meet or exceed the applicable structural standards set by the TIA-222-H (Telecommunications Industry Association) and local building codes. This ensures the tower can withstand high winds, seismic activity, and other environmental forces common to the area.

Regulatory Compliance:
The project complies with relevant federal, state, and local regulations, including those set forth by The Federal Communications Commission (FCC). An FAA Obstruction Evaluation Study is not required per the FAA. Confirmation of this determination is included as Attachment D. The nearest airports are Tahneta Pass Airport (approx. 4.7 miles away) and Sheep Mountain Airport (approx. 6 miles away). No impact to either is anticipated based on the existing AT&T communications tower and confirmation from FAA that a 7460-1 obstruction evaluation is not needed.

Maintenance and Decommissioning Plans:
The MSB performs a visual inspection from the ground at minimum once per year. In addition, if any tower work is needed by a contractor, they will visually inspect conditions as they climb and report back any issues that need addressed. The MSB aims to have a formal tower inspection climb approximately every 5 years and/or after major events that may have had negative impacts to the structure integrity of the tower. However, the goal is for inspections to coincide with other equipment repairs or additions for cost-efficiency. The MSB will be responsible for all aspects of the operation, improvements, development, maintenance and/or decommissioning of the site in compliance with applicable requirements.

In conclusion, the proposed communications tower aligns with the community's goals and addresses a critical need for improved emergency services communications, particularly in areas of high recreational activity. **The following pages address specific requirements in the Matanuska-Susitna Borough code for Tall Structures.**

We appreciate your consideration of this application and look forward to the opportunity to discuss any further requirements or address any concerns. Thank you for your time and attention to this matter.

17.67.070 GENERAL APPLICATION REQUIREMENTS FOR ADMINISTRATIVE AND CONDITIONAL USE PERMITS.

(A) An application for a conditional use or administrative permit to construct a new tall structure may be initiated by a property owner or the owner's authorized agent and shall include:

(1) completed application form provided by the department and signed by the property owner or authorized agent;

(2) design drawings for the proposed tall structure, drawn to scale, and certified by a registered engineer or architect;
(3) fee in the amount designated in MSB 17.99;
(4) citizen participation report in accordance with MSB 17.67.050(B);
(5) a certified site plan;
(6) copy of a determination of no hazard to air navigation from the Federal Aviation Administration; and
(7) if breakpoint technology is intended to be utilized, a written statement specifying the height at which the engineered structural weakness will be located.
(Ord. 15-016, § 2 (part), 2015)

Statement of Compliance:
This Administrative Permit application for Tall Structures provides the required documentation outlined in items (1) through (6) above. The tower does not intend to utilize breakpoint technology outlined in item (7), therefore no written statement is provided.

17.67.080 STANDARDS FOR APPROVAL OF NEW TALL STRUCTURES.
(A) A permit for a new tall structure may only be approved if it meets the requirements of this section in addition to any other applicable standards required by this chapter.
(B) In granting or denying a permit, the commission or director shall make findings on whether the applicant has demonstrated that:
(1) To the extent that is technically feasible and potentially available, the location of the tall structure is such that its negative effects on the visual and scenic resources of all surrounding properties have been minimized;
(2) Visibility of the tall structure from public parks, trails recognized within adopted borough plans, and water bodies has been minimized to the extent that is technically feasible and potentially available;
(3) The tall structure will not interfere with the approaches to any existing airport or airfield that are identified in the borough's regional aviation system plan or by the Alaska State Aviation System Plan; and
(4) Granting the permit will not be harmful to the public health, safety, convenience, and welfare.
(Ord. 15-016, § 2 (part), 2015)

Statement of Compliance:
The proposed development for the communications tower aligns with the standards outlined in MSB 17.67.080 for the approval of new tall structures. If there are any specific questions or further information required, please let us know for prompt clarification.

1. The location of the tall structure has been chosen to minimize negative effects on the visual and scenic resources of surrounding properties to the extent technically feasible and potentially available.
2. Visibility of the tall structure from public parks, trails recognized within adopted borough plans, and water bodies has been minimized to the extent technically feasible and potentially available.
3. The tall structure will not interfere with the approaches to any existing airport or airfield identified in the borough's regional aviation system plan or by the Alaska State Aviation System Plan.
4. Granting the permit for the proposed communications tower will not be harmful to the public health, safety, convenience, and welfare. The tower will comply with local, state and federal regulations.

17.67.090 OPERATION STANDARDS FOR NEW TALL STRUCTURES.

(A) The following setback requirements shall apply to all new telecommunications towers regulated under this chapter:

(1) The equipment compound shall meet minimum setback distances from all property lines in accordance with MSB 17.55.

(2) Minimum setback for the tower base shall be a distance equal to the height of the tower.

(a) The commission, or director if it is an administrative permit, may reduce the setback to a distance less than the height of the tower, if the applicant demonstrates there is no risk to public health, safety, or welfare of adjacent property owners.

(3) Setbacks shall be determined from the dimensions of the entire lot, even though the tower may be located on lease areas within the lot.

(B) For all tall structures regulated under this chapter, adequate vehicle parking shall be provided on the subject property, outside of public use easements and rights-of-way, to enable emergency vehicle access.

(1) No more than two spaces per provider shall be required.

(C) The following requirements apply to all new and existing telecommunication towers and wind energy conversion systems regulated under this chapter:

(1) The following signage shall be visibly posted at the equipment compound:

(a) Informational signs for the purpose of identifying the tower such as the antenna structure registration number required by the Federal Communications Commission, as well as the party responsible for the operation and maintenance of the facility;

(b) If more than 220 volts are necessary for the operation of the facility, warning signs shall be located at the base of the facility and shall display in large, bold, high contrast letters the following: "HIGH VOLTAGE – DANGER"; and

(c) a 24-hour emergency contact number.

(2) A fence or wall not less than six feet in height with a secured gate shall be maintained around the base of the tower.

(Ord. 15-016, § 2 (part), 2015)

Statement of Compliance:

The proposed development for the communications tower has met all relevant requirements outlined in MSB 17.67.090, including tower height and design specifications, setbacks meeting MSB 17.55 standards, adherence to FAA (AC 70/7460-1) regulations, and the inclusion of certified site plans, zoning, and tower design drawings.

If there are any specific questions or clarifications needed regarding how each requirement has been satisfied, please let us know.

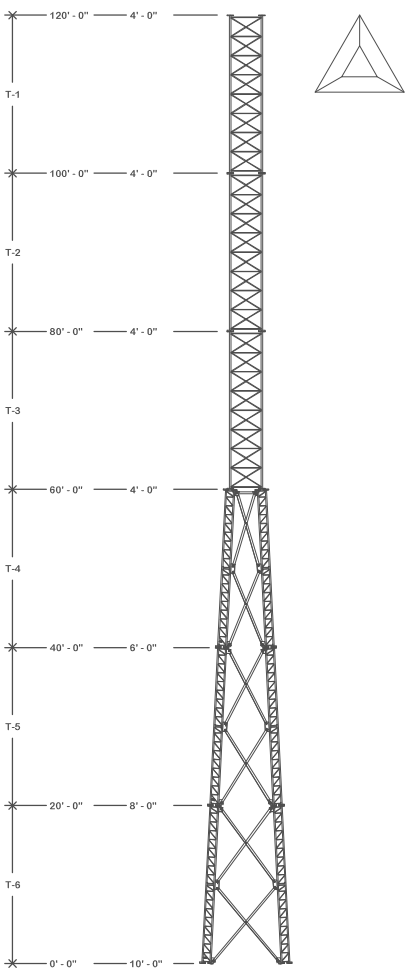
Signature:

Permitting Acting Agent

Sierra Larson Digitally signed by Sierra Larson
DN: C=US, E=slarson@nhtiusa.com, CN=Sierra Larson
Date: 2026.05.20 07:06:26-08'00'

Sierra Larson, Project Manager, New Horizons Telecom, Inc.

Attachment C:
Tower and Foundation Design Drawings



SEE PAGE 2 FOR
APPURTENANCES

TOWER DESIGN CRITERIA

Design Standard:	TIA-222-H*
Design Wind Speeds:	129 mph (no ice) 60 mph (0.25" ice)
Service Wind Speed:	60 mph (deflection only)
Risk Category:	IV
Exposure Category:	C
Topographic Category:	3
Crest Height:	957 ft.
Site Elevation:	3435 (NAVD 88)
Latitude:	61.83241667
Longitude:	-147.32863889

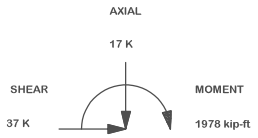
MATERIAL STRENGTHS

Solid Rod	A36	(rod dia. <3/4")
	A572 Gr.50	(3/4" thru 1" dia.)
	A572 Gr.58	(>1" dia.)
Pipe	A500 Gr.B	(antenna pipes)
	A500 Gr.B/C	(tower legs min. Fy 50 ksi)
Angle	A572 Gr.50	
Plate	A572 Gr.50	
Bolts	A-325/A-449	(leg & angle)
AnchorBolt	F1554 Grade 105 or A687	

Finish: Tower & Hardware are hot dip galvanized

1. ALL STRUCTURAL HARDWARE IS GALVANIZED IN ACCORDANCE WITH ASTM A-153 (HDG). TOWER SECTIONS & ASSOCIATED STRUCTURAL COMPONENTS ARE GALVANIZED IN ACCORDANCE WITH ASTM A-123 (HDG).
2. ALL BOLTS & NUTS MUST BE IN PLACE BEFORE ADJOINING SECTION(S) ARE INSTALLED.
3. ALL STRUCTURAL BOLTS ARE TO BE TIGHTENED TO A SNUG TIGHT CONDITION AS DEFINED BY AISC & RCSC SPECIFICATION FOR STRUCTURAL JOINTS UNLESS NOTED OTHERWISE.
4. ALL WELDING TO CONFORM TO AWS D1.1 SPECIFICATION. 5/16" MINIMUM WELD SIZE UNLESS NOTED OTHERWISE.
5. MATERIAL LABELED AS ASTM A-572 GR. 58 OR 58 KSI YIELD STRENGTH ALSO CONFORMS TO ASTM A-572 GR. 50.
6. ANALYSIS PERFORMED USING STEEL GRADES LISTED UNDER MATERIALS STRENGTHS SHOWN ON THIS PAGE.
7. THIS DRAWING DOES NOT INDICATE THE METHOD OF CONSTRUCTION. THE CONTRACTOR SHALL SUPERVISE AND DIRECT THE WORK AND HE SHALL BE SOLELY RESPONSIBLE FOR ALL CONSTRUCTION MEANS, SEQUENCES AND PROCEDURES.
8. THE CONTRACTOR MUST BE EXPERIENCED IN THE PERFORMANCE OF WORK SIMILAR TO THAT DESCRIBED HEREIN.
9. (VIBRATION DISCLAIMER) ALTHOUGH RARE,VIBRATIONS SEVERE ENOUGH TO CAUSE DAMAGE CAN OCCASIONALLY OCCUR IN STRUCTURES OF ALL TYPES, BECAUSE THEY ARE INFLUENCED BY MANY INTERACTING VARIABLES. VIBRATIONS ARE GENERALLY UNPREDICTABLE.THE USER'S MAINTENANCE PROGRAM SHOULD INCLUDE OBSERVATION FOR EXCESSIVE VIBRATION AND EXAMINATION FOR ANY STRUCTURAL DAMAGE OR BOLT LOOSENING. THE VALMONT WARRANTY SPECIFICALLY EXCLUDES FATIGUE FAILURE OR SIMILAR PHENOMENA RESULTING FROM INDUCED VIBRATION, HARMONIC OSCILLATION OR RESONANCE ASSOCIATED WITH MOVEMENT OF AIR CURRENTS AROUND THE PRODUCT.
10. THE CONTRACTOR SHALL VERIFY MATERIALS TO BE FREE FROM FAULTS AND DEFECTS UPON ARRIVAL,AND IN CONFORMANCE WITH THE SUPPLIED DOCUMENTS. ALL SUBSTITUTIONS MUST BE DULY APPROVED AND AUTHORIZED IN WRITING BY VALMONT ENGINEERING PRIOR TO FABRICATION AND INSTALLATION. VALMONT IS NOT RESPONSIBLE FOR MATERIALS DAMAGED DURING UNLOADING OR CONSTRUCTION.
11. THE CONTRACTOR SHALL MAINTAIN A CHECK OF TOWER PLUMBNESS DURING ALL PHASES OF CONSTRUCTION WORK. THE TOWER SHALL BE PLUMB WITHIN THE TOLERANCE SPECIFIED IN THE LATEST REVISION OF THE TIA - STANDARD. MEANS AND METHODS ARE FULL RESPONSIBILITY OF THE CONTRACTOR. AFTER COMPLETION OF THE TOWER ERECTION, WITH ALL JOINTS TIGHT, AND ALL APPURTENANCES INSTALLED, THE CONTRACTOR SHALL MAKE A FINAL CHECK OF TOWER PLUMBNESS. CONTRACTOR SHALL SUBMIT DOCUMENTS TO THE THIRD PARTY INSPECTOR APPOINTED BY THE TOWER OWNER AS REQUIRED.
12. ANTENNAS, MOUNTS, MOUNT ACCESSORIES ETC. SHOULD NOT BE ATTACHED TO THE DIAGONALS SHOWN ON THIS DRAWING.

Maximum Base Reactions



MAX. LEG REACTIONS:

DOWN:	228 K
UPLIFT:	-224 K
SHEAR:	25 K
TORQUE	41 kip-ft
REACTIONS	129 mph WIND (no ice)

*Factored Reactions provided per ANSI/TIA-222 Design Criteria & Load Combinations

TOWER COLUMN										
SECTION	ELEVATION	FACE WIDTH	PANELS	LEG SIZE	LEG STYLE	LEG BOLT QTY & DIA	DIAGONAL BRACING SIZE	HORIZONAL BRACING SIZE	BRACING BOLT QTY & DIA	SECTION WEIGHT
T1	100' - 120'	4.0'	8	1.25"	SHFAB	2 x 1"	SR 3/4"	SR 7/8"		805.73
T2	80' - 100'	4.0'	8	1.50"	SHFAB	2 x 1"	SR 3/4"	SR 7/8"		918.21
T3	60' - 80'	4.0'	8	2.00"	SHFAB	4 x 1"	SR 7/8"	SR 1"		1672.74
T4	40' - 60'	6.0'	2	1.25"	12BDFH	6 x 1"	5/16" x 3" x 3"	3/16" x 3" x 3"	1 x 1 1/4 "	2404.53
T5	20' - 40'	8.0'	2	1.25"	12BDFH	6 x 1"	3/16" x 2-1/2" x 2-1/2"		1 x 1 "	1967.97
T6	0' - 20'	10.0'	2	1.50"	12BDFH	4 x 1 1/8"	3/16" x 3" x 3"		1 x 1 "	2579.04

REVISION HISTORY				
@A	<ACBATCH>		KRC	4/7/2026
REV	DESCRIPTION OF REVISIONS	CPD	BY	DATE

SITE
MSB EUREKA, AK
NEW HORIZONS TELECOMMUNICATION
U 10 X 120'

DESCRIPTION
Tower View Page 1

valmont STRUCTURES
1-877-467-4763 Plymouth, IN
1-800-547-2151 Salem, OR

DRAWN BY	APPROVED BY	DESIGNED BY	APPROVED BY	RELEASE DATE
KRC	SAN	AK	J_L	4/7/2026

ENG. FILE NO. 669161

DWG. NO. 299641T

DESIGNED APPURTENANCE LOADING	
TYPE	ELEVATION
(1) 21' LRE WITH 7'-6" LIGHTNING ROD (ARM=11.5')	120.0000'
(1) DS1E06F36U-D	120.0000'
(1) SP1 HS4-KHD	118.0000'
(1) DS1E06F36U-D	100.0000'
(1) SP1 HS4-KHD	98.0000'
(1) SP1 PSA3	90.0000'
(1) SD214-HF2P4LDF	70.0000'
(1) SP1 PSA3	70.0000'
(1) 8' HP ()	67.0000'
(1) SP1 R6 (INCLUDES 4.5"X72" PIPE)	67.0000'
(1) SD212-HF2P4	65.0000'
(1) SP1 PSA3	63.0000'
(2) 2-1/2" X 5' SCH. 40 FACE TIE BACK PIPE	50.0000'
(1) 6' HP ()	50.0000'
(1) SP1 R5 (INCLUDES 4.5"X72" PIPE)	50.0000'
(1) 10' HP ()	33.0000'
(1) 2-1/2" X 5' SCH. 40 FACE TIE BACK PIPE	33.0000'
(1) 2-1/2" X 7' SCH. 40 FACE TIE BACK PIPE	33.0000'
(1) SP1 R6 (INCLUDES 4.5"X72" PIPE) W/ BCAM-SDLL-	33.0000'
(2) 2-1/2" X 8' SCH. 40 FACE TIE BACK PIPE	27.0000'
(1) 6' HP ()	27.0000'
(1) SP1 R5 (INCLUDES 4.5"X72" PIPE)	27.0000'

@A	<ACBATCH>		KRC	4/7/2026
REV	DESCRIPTION OF REVISIONS	CPD	BY	DATE

REVISION HISTORY

DRAWN BY	APPROVED BY	DESIGNED BY	APPROVED BY	RELEASE DATE
KRC	SAN	AK	J_L	4/7/2026

SITE

MSB EUREKA, AK
NEW HORIZONS TELECOMMUNICATION
U 10 X 120'

DESCRIPTION

Tower View Page 2

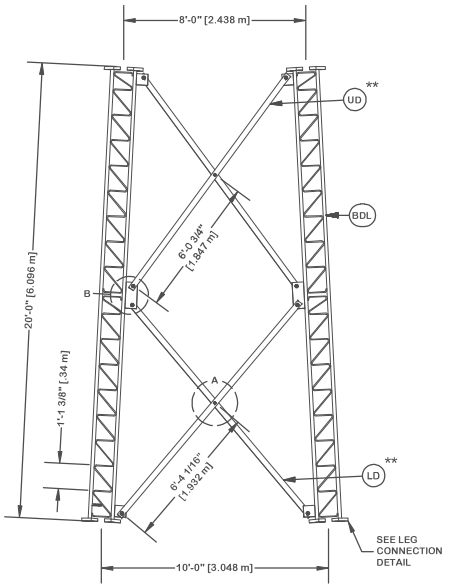
valmont STRUCTURES
1-877-467-4763 Plymouth, IN
1-800-547-2151 Salem, OR

ENG. FILE NO.	DWG. NO.	PAGE
669161	299641T	2 OF 8

ORIENT LEGS WITH P/N STAMP
TOWARD BOTTOM OF SECTION

ORIENT ANGLES WITH STAMPED
END TOWARD TOP OF SECTION

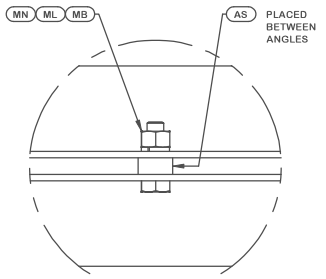
** DIAGONAL ANGLES MUST BE INSTALLED
WITH THE NON-BOLTED FACE UP,
THIS MAY BE ON THE OPPOSITE SIDE OF THE
SIDE PLATE THAN WHAT IS SHOWN IN THE DETAIL.



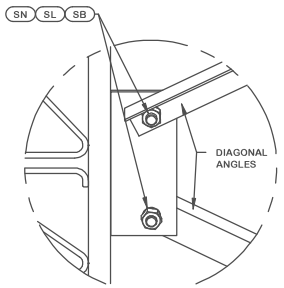
PARTS LIST

ITEM	QTY	PART NO.	PART DESCRIPTION	UNIT WT.	NET WT.
BDL	3	281216	#12 BASE SECTION - 1 1/2" LEG - 1/2" BRACE W/ (1)	658.920	1976.760
LD	6	126798	U-10 LOWER DIAGONAL - 3" x 3" x 3/16" ANGLE (A572	48.330	289.980
AS	6	104291	RING FILL SPACER 1/2" THICK 1.049" HOLE	0.070	0.420
MN	6	312502	3/4"-10 HOT DIPPED GALVANIZED NUT	0.190	1.140
ML	6	312153	3/4" GALVANIZED LOCKWASHER	0.030	0.180
MB	6	160427	3/4"-10 X 3" A-325T BOLT WITH FULL THREAD	0.470	2.820
SL	24	312223	1" GALVANIZED LOCKWASHER	0.080	1.920
SN	24	312504	1"-8 HOT DIPPED GALVANIZED NUT	0.430	10.320
SB	24	172265	1"-8 X 2-1/4" A-325 BOLT WITH 1-3/4" THREAD	0.840	20.160
UD	6	126794	U-10 UPPER DIAGONAL - 3" x 3" x 3/16" ANGLE (A572	45.890	275.340
			Total Wt	2579.04 lb [1170.91 kg]	

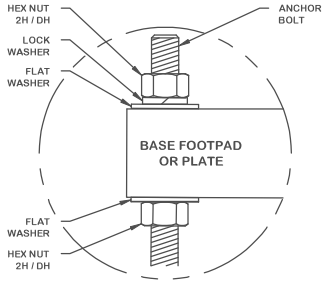
NOTE: THE VIEWS SHOWN BELOW ARE FOR PART IDENTIFICATION ONLY. THE ACTUAL PART STYLE MAY VARY FROM WHAT IS DEPICTED BELOW.
PLEASE SEE ASSEMBLY INFORMATION IN THE UPPER LEFT CORNER FOR FURTHER INSTALLATION INSTRUCTIONS.



DETAIL A
ANGLE INTERSECTION CONNECTION



DETAIL B
MID SIDE PLATE ANGLE CONNECTION



ANCHOR BOLT ASSY. (TYP)
SEE FOUNDATION DRAWING FOR DETAILS

@A	<ACBATCH>		KRC	4/7/2026
REV	DESCRIPTION OF REVISIONS	CPD	BY	DATE
	REVISION HISTORY			

SITE
MSB EUREKA, AK
NEW HORIZONS TELECOMMUNICATION
U 10 X 120'

DESCRIPTION
SECTION U-10.0 (0' - 20' ELEVATION)

valmont STRUCTURES
1-877-467-4763 Plymouth, IN
1-800-547-2151 Salem, OR

DRAWN BY	APPROVED BY	DESIGNED BY	APPROVED BY	RELEASE DATE
KRC	SAN	AK	J_L	4/7/2026

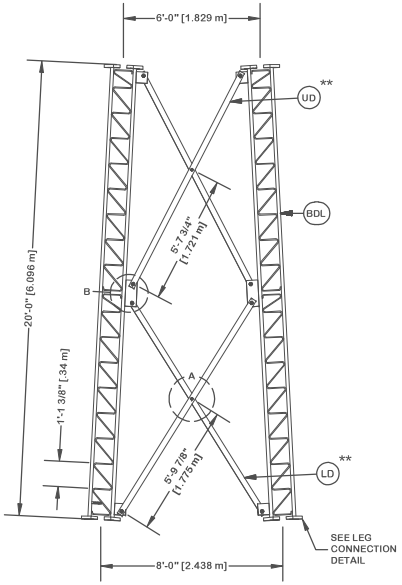
ENG. FILE NO. 669161

DWG. NO. 299641T

ORIENT LEGS WITH P/N STAMP
TOWARD BOTTOM OF SECTION

ORIENT ANGLES WITH STAMPED
END TOWARD TOP OF SECTION

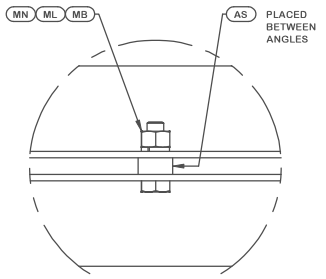
** DIAGONAL ANGLES MUST BE INSTALLED
WITH THE NON-BOLTED FACE UP,
THIS MAY BE ON THE OPPOSITE SIDE OF THE
SIDE PLATE THAN WHAT IS SHOWN IN THE DETAIL.



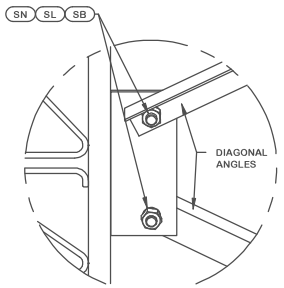
PARTS LIST

ITEM	QTY	PART NO.	PART DESCRIPTION	UNIT WT.	NET WT.
BDL	3	194434	#12 LEG SECT - 1-1/4" LEG - 1/2" BRACE - 1" BOLT -	489.830	1469.490
LD	6	126789	U-8 LOWER DIAGONAL - 2 1/2" x 2 1/2" x 3/16" ANGLE	36.220	217.320
AS	6	104291	RING FILL SPACER 1/2" THICK 1.049" HOLE	0.070	0.420
MN	6	312502	3/4"-10 HOT DIPPED GALVANIZED NUT	0.190	1.140
ML	6	312153	3/4" GALVANIZED LOCKWASHER	0.030	0.180
MB	6	160427	3/4"-10 X 3" A-325T BOLT WITH FULL THREAD	0.470	2.820
SL	24	312223	1" GALVANIZED LOCKWASHER	0.080	1.920
SN	24	312504	1"-8 HOT DIPPED GALVANIZED NUT	0.430	10.320
SB	24	172265	1"-8 X 2-1/4" A-325 BOLT WITH 1-3/4" THREAD	0.840	20.160
UD	6	126785	U-8 UPPER DIAGONAL - 2 1/2" x 2 1/2" x 3/16" ANGLE	34.610	207.660
LCB	18	222016	1"-8 X 4-3/4" A-325 BOLT WITH 1-3/4" THREAD	1.380	24.840
LCF	18	312222	1" GALVANIZED FLAT WASHER (F436)	0.140	2.520
LCL	18	312223	1" GALVANIZED LOCKWASHER	0.080	1.440
LCN	18	312504	1"-8 HOT DIPPED GALVANIZED NUT	0.430	7.740
			Total Wt	1967.97 lb [893.48 kg]	

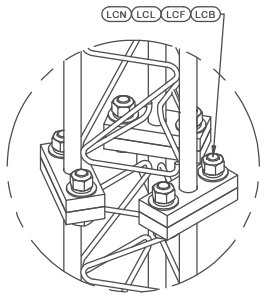
NOTE: THE VIEWS SHOWN BELOW ARE FOR PART IDENTIFICATION ONLY. THE ACTUAL PART STYLE MAY VARY FROM WHAT IS DEPICTED BELOW.
PLEASE SEE ASSEMBLY INFORMATION IN THE UPPER LEFT CORNER FOR FURTHER INSTALLATION INSTRUCTIONS.



DETAIL A
ANGLE INTERSECTION CONNECTION



DETAIL B
MID SIDE PLATE ANGLE CONNECTION



LEG TO LEG CONNECTION
(SIDE PLATES NOT SHOWN FOR CLARITY)

REV	DESCRIPTION OF REVISIONS	CPD	BY	DATE
@A	<ACBATCH>		KRC	4/7/2026

REVISION HISTORY

SITE
MSB EUREKA, AK
NEW HORIZONS TELECOMMUNICATION
U 10 X 120'

DESCRIPTION
SECTION U-8.0 (20' - 40' ELEVATION)

valmont STRUCTURES
1-877-467-4763 Plymouth, IN
1-800-547-2151 Salem, OR

DRAWN BY	APPROVED BY	DESIGNED BY	APPROVED BY	RELEASE DATE
KRC	SAN	AK	J_L	4/7/2026

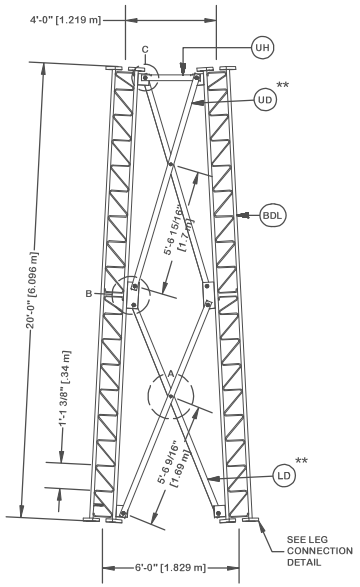
ENG. FILE NO. 669161

DWG. NO. 299641T

ORIENT LEGS WITH P/N STAMP
TOWARD BOTTOM OF SECTION

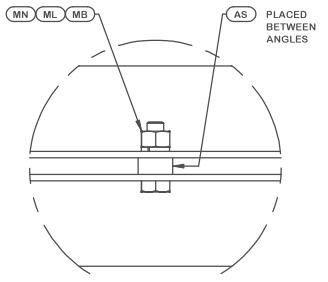
ORIENT ANGLES WITH STAMPED
END TOWARD TOP OF SECTION

** DIAGONAL ANGLES MUST BE INSTALLED
WITH THE NON-BOLTED FACE UP,
THIS MAY BE ON THE OPPOSITE SIDE OF THE
SIDE PLATE THAN WHAT IS SHOWN IN THE DETAIL.

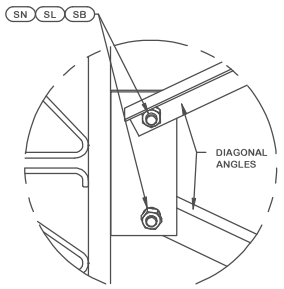


PARTS LIST

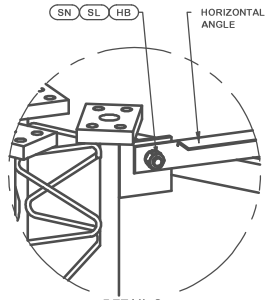
ITEM	QTY	PART NO.	PART DESCRIPTION	UNIT WT.	NET WT.
BDL	3	194649	#12 LEG SECTION - 1-1/4" LEG - 1/2" BRACE - 1-1/4"	504.780	1514.340
LD	6	126881	U-6 LOWER DIAGONAL - 3" x 3" x 5/16" ANGLE (A572 G	64.990	389.940
AS	6	104291	RING FILL SPACER 1/2" THICK 1.049" HOLE	0.070	0.420
MN	6	312502	3/4"-10 HOT DIPPED GALVANIZED NUT	0.190	1.140
ML	6	312153	3/4" GALVANIZED LOCKWASHER	0.030	0.180
MB	6	160427	3/4"-10 X 3" A-325T BOLT WITH FULL THREAD	0.470	2.820
SB	18	222019	1-1/4"-7 X 2-3/4" A-325T BOLT FULL THREAD HDG	1.590	28.620
SL	24	312283	1-1/4" GALVANIZED LOCKWASHER	0.150	3.600
SN	24	312507	1-1/4"-7 HOT DIPPED GALVANIZED NUT	0.730	17.520
UD	6	126879	U-6 UPPER DIAGONAL - 3" x 3" x 5/16" ANGLE (A572 G	63.020	378.120
UH	3	268796	U-6 TAPERED UPPER HORIZONTAL ANGLE (TYPE 1) - 3" x	7.250	21.750
HB	6	311288	1-1/4"-7 X 2-3/4" A-325T BOLT WITH FULL THREAD	1.590	9.540
LCB	18	222016	1"-8 X 4-3/4" A-325 BOLT WITH 1-3/4" THREAD	1.380	24.840
LCF	18	312222	1" GALVANIZED FLAT WASHER (F436)	0.140	2.520
LCL	18	312223	1" GALVANIZED LOCKWASHER	0.080	1.440
LCN	18	312504	1"-8 HOT DIPPED GALVANIZED NUT	0.430	7.740
			Total Wt	2404.53 lb [1091.68 kg]	



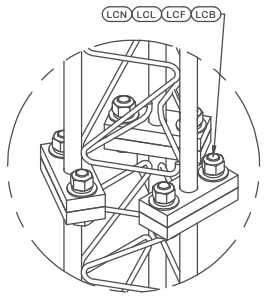
DETAIL A
ANGLE INTERSECTION CONNECTION



DETAIL B
MID SIDE PLATE ANGLE CONNECTION



DETAIL C
HORIZONTAL CONNECTION



LEG TO LEG CONNECTION
(SIDE PLATES NOT SHOWN FOR CLARITY)

REV	DESCRIPTION OF REVISIONS	CPD	BY	DATE
@A	<ACBATCH>		KRC	4/7/2026

REVISION HISTORY

SITE
MSB EUREKA, AK
NEW HORIZONS TELECOMMUNICATION
U 10 X 120'

DESCRIPTION
SECTION U-6.0 (40' - 60' ELEVATION)

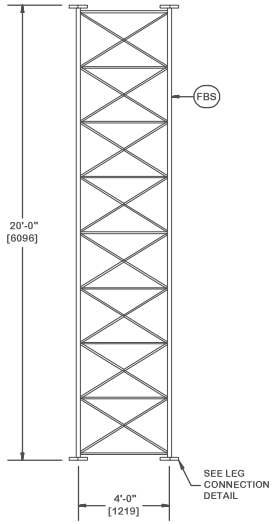
valmont STRUCTURES
1-877-467-4763 Plymouth, IN
1-800-547-2151 Salem, OR

DRAWN BY	APPROVED BY	DESIGNED BY	APPROVED BY	RELEASE DATE
KRC	SAN	AK	J_L	4/7/2026

ENG. FILE NO. 669161

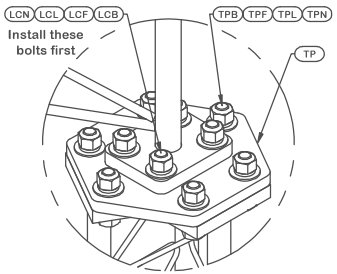
DWG. NO. 299641T

ORIENT SECTION WITH P/N STAMP
TOWARD BOTTOM OF TOWER



PARTS LIST

ITEM	QTY	PART NO.	PART DESCRIPTION	UNIT WT.	NET WT.
FBS	1	246648	#48 SECT W/ FOOTPADS 2" - 1 1/2" LEG 7/8" BRACE 20	1360.500	1360.500
TP	3	209573	TRANSITION PLATE (6) 1" BOLTS TO (4) 1" BOLTS	83.780	251.340
TPB	18	222016	1"-8 X 4-3/4" A-325 BOLT WITH 1-3/4" THREAD	1.380	24.840
TPF	18	312222	1" GALVANIZED FLAT WASHER (F436)	0.140	2.520
TPL	18	312223	1" GALVANIZED LOCKWASHER	0.080	1.440
TPN	18	312504	1"-8 HOT DIPPED GALVANIZED NUT	0.430	7.740
LCB	12	222016	1"-8 X 4-3/4" A-325 BOLT WITH 1-3/4" THREAD	1.380	16.560
LCF	12	312222	1" GALVANIZED FLAT WASHER (F436)	0.140	1.680
LCL	12	312223	1" GALVANIZED LOCKWASHER	0.080	0.960
LCN	12	312504	1"-8 HOT DIPPED GALVANIZED NUT	0.430	5.160
			Total Wt	1672.74 lb [759.44 kg]	



LEG TO LEG CONNECTION
The Transition Plate MUST be attached to the
upper section before installing onto lower section

REV	DESCRIPTION OF REVISIONS	CPD	BY	DATE
@A	<ACBATCH>		KRC	4/7/2026

REVISION HISTORY

SITE
MSB EUREKA, AK
NEW HORIZONS TELECOMMUNICATION
U 10 X 120'

DESCRIPTION
SECTION V-4.0 (60' - 80' ELEVATION)

valmont STRUCTURES
1-877-467-4763 Plymouth, IN
1-800-547-2151 Salem, OR

DRAWN BY	APPROVED BY	DESIGNED BY	APPROVED BY	RELEASE DATE
KRC	SAN	AK	J_L	4/7/2026

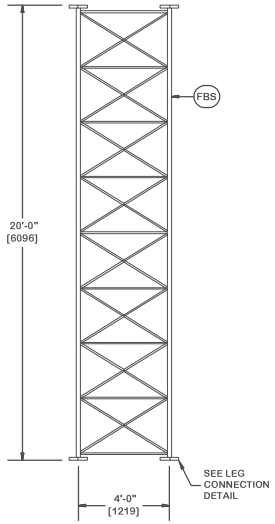
ENG. FILE NO. 669161

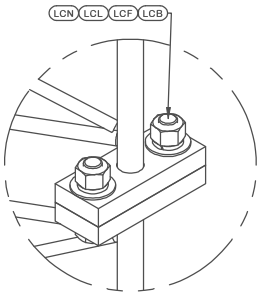
DWG. NO. 299641T

ORIENT SECTION WITH P/N STAMP
TOWARD BOTTOM OF TOWER

PARTS LIST

ITEM	QTY	PART NO.	PART DESCRIPTION	UNIT WT.	NET WT.
FBS	1	246635	#48 SECT W/ FOOTPADS 1 1/2" LEG 3/4" BRACE 20'-0"	906.030	906.030
LCB	6	222016	1"-8 X 4-3/4" A-325 BOLT WITH 1-3/4" THREAD	1.380	8.280
LCF	6	312222	1" GALVANIZED FLAT WASHER (F436)	0.140	0.840
LCL	6	312223	1" GALVANIZED LOCKWASHER	0.080	0.480
LCN	6	312504	1"-8 HOT DIPPED GALVANIZED NUT	0.430	2.580
			Total Wt	918.21 lb [416.88 kg]	





LEG TO LEG CONNECTION

REV	DESCRIPTION OF REVISIONS	CPD	BY	DATE
@A	<ACBATCH>		KRC	4/7/2026

REVISION HISTORY

SITE

MSB EUREKA, AK
NEW HORIZONS TELECOMMUNICATION
U 10 X 120'

DESCRIPTION

SECTION V-4.0 (80' - 100' ELEVATION)

valmont STRUCTURES
1-877-467-4763 Plymouth, IN
1-800-547-2151 Salem, OR

DRAWN BY	APPROVED BY	DESIGNED BY	APPROVED BY	RELEASE DATE
KRC	SAN	AK	J_L	4/7/2026

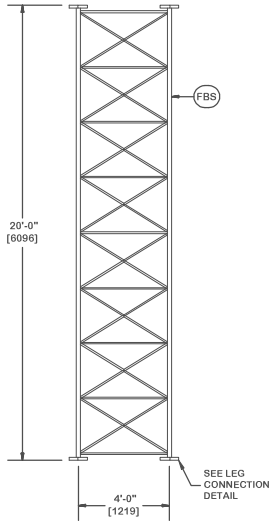
ENG. FILE NO. 669161

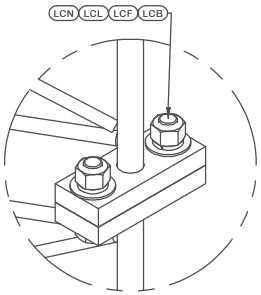
DWG. NO. 299641T

ORIENT SECTION WITH P/N STAMP
TOWARD BOTTOM OF TOWER

PARTS LIST

ITEM	QTY	PART NO.	PART DESCRIPTION	UNIT WT.	NET WT.
FBS	1	246634	#48 SECT W/ FOOTPADS 1 1/4" LEG 3/4" BRACE 20'-0"	793.550	793.550
LCB	6	222016	1"-8 X 4-3/4" A-325 BOLT WITH 1-3/4" THREAD	1.380	8.280
LCF	6	312222	1" GALVANIZED FLAT WASHER (F436)	0.140	0.840
LCL	6	312223	1" GALVANIZED LOCKWASHER	0.080	0.480
LCN	6	312504	1"-8 HOT DIPPED GALVANIZED NUT	0.430	2.580
			Total Wt	805.73 lb [365.81 kg]	





LEG TO LEG CONNECTION

REV	DESCRIPTION OF REVISIONS	CPD	BY	DATE
@A	<ACBATCH>		KRC	4/7/2026

REVISION HISTORY

SITE

MSB EUREKA, AK
NEW HORIZONS TELECOMMUNICATION
U 10 X 120'

DESCRIPTION

SECTION V-4.0 (100' - 120' ELEVATION)

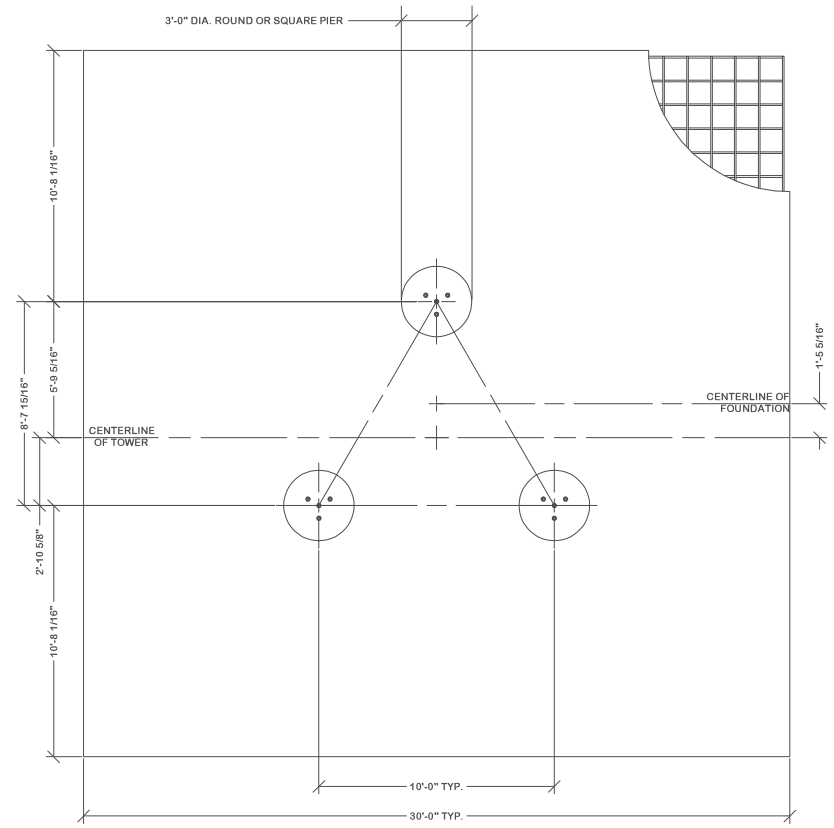
valmont STRUCTURES
1-877-467-4763 Plymouth, IN
1-800-547-2151 Salem, OR

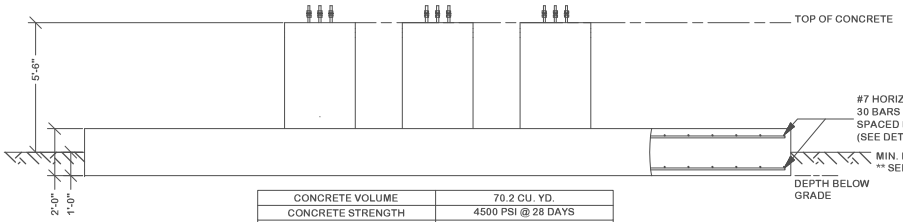
DRAWN BY	APPROVED BY	DESIGNED BY	APPROVED BY	RELEASE DATE
KRC	SAN	AK	J_L	4/7/2026

ENG. FILE NO. 669161

DWG. NO. 299641T

PAGE 8 OF 8





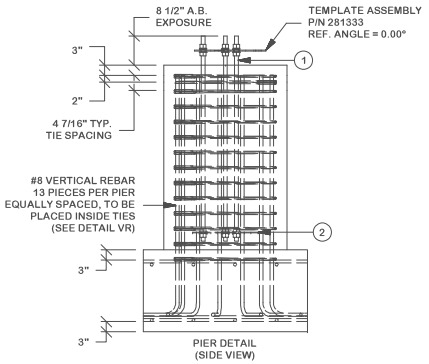
CONCRETE VOLUME	70.2 CU. YD.
CONCRETE STRENGTH	4500 PSI @ 28 DAYS
CONCRETE DENSITY	150 PCF

ATTENTION CONTRACTOR INSTALLING ANCHOR BOLTS!
USE 1 1/8" DIA. ANCHOR BOLTS SUPPLIED BY VALMONT.
INSTALL ALL ANCHOR BOLTS WITH LONGER THREADED ENDS EXPOSED
VERIFY THE PART NUMBER AND SIZES FOR ALL COMPONENTS ON THIS PAGE.
IF THERE ARE ANY DISCREPANCIES, PLEASE NOTIFY VALMONT/PIROD, INC
PRIOR TO INSTALLATION!

TEMPLATE INSTALLATION NOTES:
1. THE PROVIDED TEMPLATE ASSEMBLY MUST BE USED TO ENSURE ACCURATE ANCHOR BOLT LOCATION & INSTALLATION ANGLE (BASE LEG REFERENCE ANGLE 0.00°.)
2. USING THE TEMPLATE ASSEMBLY, THE CENTER OF EACH ANCHOR BOLT GROUP MUST BE LOCATED WITHIN (+/- 3") OF THE CENTER OF THE REBAR CAGE SHOWN ON THIS PLAN. FAILURE TO USE THE FULLY ASSEMBLED ANCHOR BOLT TEMPLATE WILL CAUSE MISS-LOCATION OF THE ANCHOR BOLT GROUPS. INCORRECTLY LOCATED ANCHOR BOLT GROUPS WILL CAUSE DIFFICULTY OR ALIGNMENT ISSUES DURING TOWER CONSTRUCTION. IN MORE SEVERE CASES, THIS CAN MAKE IT IMPOSSIBLE TO ERECT THE TOWER.
3. THE ENTIRE TEMPLATE ASSEMBLY MUST BE LEVEL +/- 1°.
4. INSTALLED TEMPLATE CLEARANCE 2" MIN - 4" MAX T.O.C. TO BOTTOM OF LEVELING NUT.
5. MUST USE TEMPLATE ASSEMBLY# 281333

**CONCRETE NOTES
1. BACKFILL MAY NOT BE SLOPED
2. BACKFILL MUST NOT EXCEED THE TOP OF THE CONCRETE
3. CONTRACTOR MUST VERIFY THAT THE MINIMUM FILL HEIGHT CAN BE ACHIEVED PRIOR TO INSTALLING REBAR OR CONCRETE.
4. IF MINIMUM FILL HEIGHT CANNOT BE ACHIEVED THE CONTRACTOR MUST CONTACT VALMONT PRIOR TO REBAR OR CONCRETE PLACEMENT.

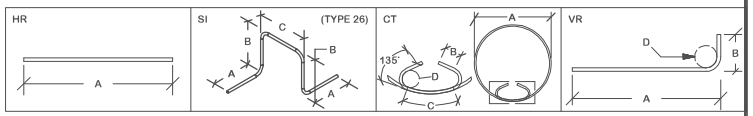
CIRCULAR TIE NOTES:
PLACE CIRCULAR TIES SO HOOKS ON ADJACENT TIES ARE APPROX. 180° APART. PLACE ONE TIE AT TOP OF REBAR GRID AND ONE TIE AT TOP OF PIER. EQUALLY SPACE TIES ALONG THE PIER, WITH ONE BAR PLACED 2" DOWN FROM THE TOP TIE. 14 TIES PER PIER (SEE DETAIL CT)



PARTS LIST				
ITEM	QTY	PART DESCRIPTION	UNIT WT.	NET WT.
1	12	1 1/8" DIA. x 60" LONG ANCHOR BOLT - 159988	19.69	236.23
2	3	EMBEDMENT PLATE - 281258	19.88	59.63

FOUNDATION NOTES:
1. SOIL AS PER REPORT BY HANSEN ENGINEERING, INC. SITE NAME: ALASCOM RD, AK, OCTOBER 20, 2025
2. REINFORCING BAR TO CONFORM TO ASTM A615 GRADE 60 SPECIFICATIONS. CONCRETE INSTALLATION TO CONFORM TO ACI-318 BUILDING REQUIREMENTS FOR REINFORCED CONCRETE. ALL CONCRETE TO BE PLACED AGAINST UNDISTURBED EARTH FREE OF WATER AND ALL FOREIGN OBJECTS AND MATERIALS. THREE INCHES OF CONCRETE SHALL COVER ALL REINFORCEMENT. WELDING OF REBAR NOT PERMITTED.
3. A COLD JOINT IS PERMISSIBLE UPON CONSULTATION WITH VALMONT. ALL COLD JOINTS SHALL BE COATED WITH BONDING AGENTS PRIOR TO SECOND POUR.
4. ALL FILL SHOULD BE PLACED IN LOOSE LEVEL LIFTS OF NO MORE THAN 12" THICK. FILL MATERIALS SHOULD BE CLEAN AND FREE OF ORGANIC AND FROZEN MATERIALS OR ANY OTHER DELETERIOUS MATERIALS. COMPACT FILL TO 95% OF STANDARD PROCTOR MAXIMUM DRY DENSITY IN ACCORDANCE WITH ASTM D698. MIN. BACKFILL DENSITY = 110 PCF.
5. BENDING, STRAIGHTENING OR REALIGNING (HOT OR COLD) OF THE ANCHOR BOLTS BY ANY METHOD IS PROHIBITED.
6. CROWN TOP OF FOUNDATION FOR PROPER DRAINAGE.
7. THE ON-SITE GEOTECHNICAL ENGINEER SHALL CONFIRM THAT THE IN SITU SOIL STRENGTHS MEET OR EXCEED THOSE PARAMETERS GIVEN IN THE SOIL REPORT.
8. GRADE THE SITE TO DRAIN AWAY FROM FOUNDATION.
9. PROVISIONS SHALL BE MADE TO PROTECT THE SUBGRADE FROM EXCESS MOISTURE.
10. SEE GEOTECHNICAL REPORT FOR ADDITIONAL CONSTRUCTION RECOMMENDATIONS, BACKFILL COMPACTION DETAIL, SUBGRADE PREPARATION, ETC.
11. DIFFICULTIES DURING EXCAVATION MAY ARISE DUE TO THE PRESENCE OF BOULDERS, COBBLES, AND/OR SHALLOW BEDROCK. THE BOULDERS, COBBLES, AND/OR ROCK MUST BE REMOVED FROM THE EXCAVATION OR DRILLED THROUGH.
12. PNEUMATIC HAMMERS, RIPPERS, AND/OR BLASTING MAY BE REQUIRED TO REMOVE MATERIAL FROM THE EXCAVATION.
13. ALL FROST SUSCEPTIBLE SOIL MUST BE REMOVED FROM BENEATH THE FOUNDATION. BACKFILL MATERIAL AROUND THE PERIMETER OF THE FOUNDATION MUST BE NON-FROST SUSCEPTIBLE.

REBAR DETAIL									
BAR	QTY	SIZE	UNBENT LENGTH	A	B	C	D DIAMETER	UNIT WT. (LBS)	NET WT. (LBS)
HR	120	#7	29'-6"	29'-6"				60.45	7253.51
SI	81	#4	7'-3 11/16"	1'-8 1/8"	1'-2 1/2"	1'-10 1/8"		4.88	395.34
CT	42	#4	9'-6 1/4"	2'-6"	3"	7 1/4"	3"	6.36	267.06
VR	39	#8	7'- 3/16"	5'-10 1/4"	1'-4"		6"	18.73	730.60



REBAR NOTES: ALL REINFORCING BARS MUST CONFORM TO ASTM A615 GRADE 60 SPECIFICATIONS
STANDEES TO BE EQUALLY SPACED BETWEEN GRIDS - 3'-5 1/2" (TYP)

Rebar Class B Splice Length			
Bar Size	(in)	Bar Size	(in)
3	19	8	61
4	25	9	69
5	31	10	77
6	37	11	86
7	53		

REV	DESCRIPTION OF REVISIONS	CPD	BY	DATE
@B	DESIGN UPDATE		J_L	4/10/2026
@A	DESIGN UPDATE		J_L	4/7/2026

REVISION HISTORY

SITE
MSB EUREKA, AK
NEW HORIZONS TELECOMMUNICATION
U 10 X 120'

DESCRIPTION
SHALLOW MAT WITH RAISED PIERS
TOWER FOUNDATION #1

valmont STRUCTURES
1-877-467-4763 Plymouth, IN
1-800-547-2151 Salem, OR

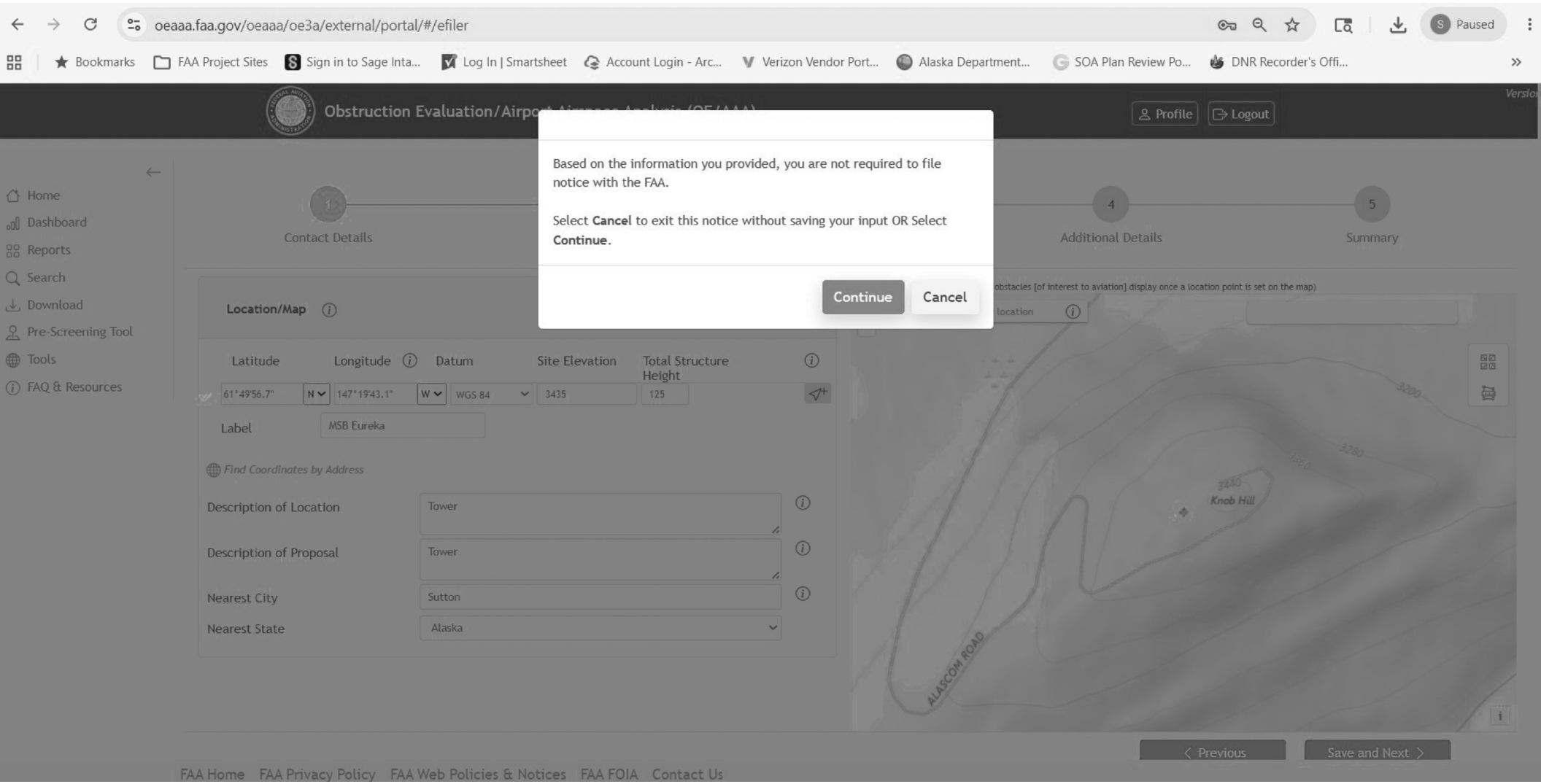
DRAWN BY	APPROVED BY	DESIGNED BY	APPROVED BY	RELEASE DATE
KRC	SAN	AK	J_L	4/13/2026

ENG. FILE NO. 669161

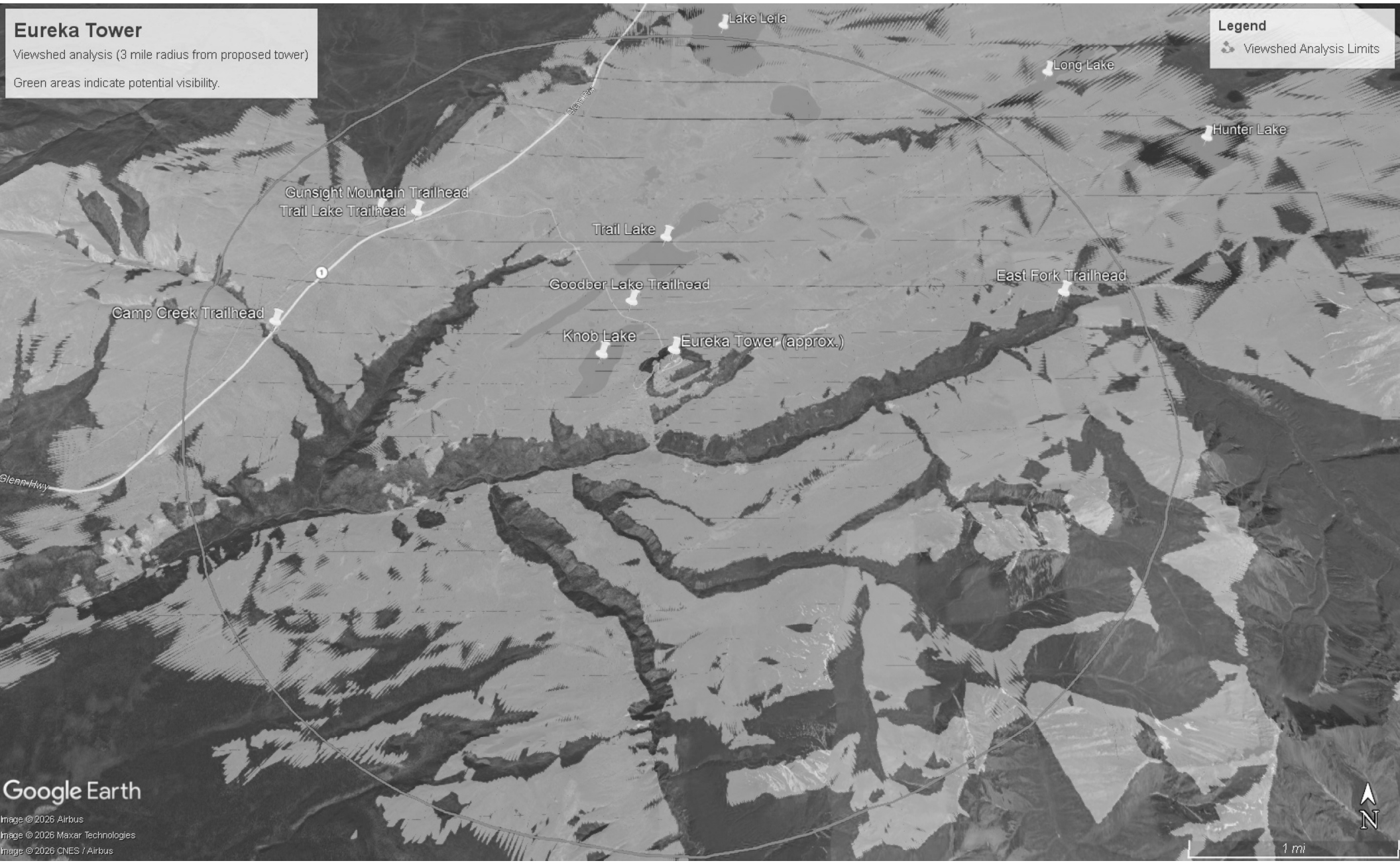
DWG. NO. 299641F

PAGE 1 OF 1

Attachment D:
FAA Confirmation of Study Exclusion


oeaaa.faa.gov/oeaaa/oe3a/external/portal/#/efiler
Paused
Bookmarks
FAA Project Sites
Sign in to Sage Inta...
Log In | Smartsheet
Account Login - Arc...
Verizon Vendor Port...
Alaska Department...
SOA Plan Review Po...
DNR Recorder's Offi...
Obstruction Evaluation/Airport Airspace Analysis (OE/AAA)
Profile
Logout
Home
Dashboard
Reports
Search
Download
Pre-Screening Tool
Tools
FAQ & Resources
1
Contact Details
4
Additional Details
5
Summary
Based on the information you provided, you are not required to file notice with the FAA.
Select Cancel to exit this notice without saving your input OR Select Continue.
Continue
Cancel
Location/Map
Latitude
Longitude
Datum
Site Elevation
Total Structure Height
61°49'56.7"
N
147°19'43.1"
W
WGS 84
3435
125
Label
MSB Eureka
Find Coordinates by Address
Description of Location
Tower
Description of Proposal
Tower
Nearest City
Sutton
Nearest State
Alaska
obstacles [of interest to aviation] display once a location point is set on the map)
location
3200
3280
3360
3440
Knob Hill
ALASCOM ROAD
Previous
Save and Next
FAA Home
FAA Privacy Policy
FAA Web Policies & Notices
FAA FOIA
Contact Us

Attachment E:
Google Earth Viewshed Analysis


Eureka Tower
Viewshed analysis (3 mile radius from proposed tower)
Green areas indicate potential visibility.
Legend
Viewshed Analysis Limits
Lake Leila
Long Lake
Hunter Lake
Gunsight Mountain Trailhead
Trail Lake Trailhead
Trail Lake
Goodber Lake Trailhead
East Fork Trailhead
Camp Creek Trailhead
Knob Lake
Eureka Tower (approx.)
Glenn Hwy
Google Earth
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1 mi

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Building Tomorrow's Infrastructure Today

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